FCC SAR Test Report

Report No.	:	**PSU-NQN24062101090SA03**
Applicant	:	**Power Idea Technology (Shenzhen) Co., Ltd.**
Address	:	**4th Floor, A Section, Languang Science&technology Building, No.7 Xinxi RD, Hi-Tech Industrial Park North, Nanshan District, ShenZhen, P.R.C.**
Manufacturer	:	**Power Idea Technology (Shenzhen) Co., Ltd.**
Address	:	**4th Floor, A Section, Languang Science&technology Building, No.7 Xinxi RD, Hi-Tech Industrial Park North, Nanshan District, ShenZhen, P.R.C.**
Product	:	**Smart Phone**
FCC ID	:	**ZLE-PSM05G**
Brand	:	**RugGear**
Model No.	:	**PSM05G**
Marking Name	:	**RG880i**
Standards	:	**FCC 47 CFR Part 2 (2.1093) / IEEE C95.1:1992 / IEEE 1528:2013 KDB 865664 D01 v01r04 / KDB 865664 D02 v01r02 / KDB 447498 D01 v06 KDB 248227 D01 v02r02 / KDB 648474 D04 v01r03 / KDB 941225 D01 v03r01 KDB 941225 D05 v02r05 / KDB 941225 D06 v02r01**
Sample Received Date	:	**Aug. 28, 2024**
Date of Testing	:	**Sep. 02, 2024 ~ Oct. 18, 2024**
FCC Designation No.	:	**CN1171** **FCC Site Registration No.** : **525120**

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.

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Approved By : Luke Lu / Manager

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Release Control Record

Report No.	Reason for Change	Date Issued
PSU-NQN24062101090SA03	Initial release	Oct. 21, 2024

1. Summary of Maximum SAR Value

Equipment Class	Mode	Highest Reported Head SAR_{1g} (W/kg)	Highest Reported Hotspot SAR_{1g} (1.0 cm Gap) (W/kg)	Highest Reported Body-worn SAR_{1g} (1.0 cm Gap) (W/kg)	Highest Reported Extremity SAR_{10g} (0 cm Gap) (W/kg)
PCE	GSM850	0.82	0.79	0.79	N/A
	GSM1900	0.21	0.45	0.45	N/A
	CDMA BC0	0.39	0.42	0.36	N/A
	CDMA BC1	0.62	0.96	0.94	N/A
	WCDMA II	0.52	0.77	0.77	N/A
	WCDMA IV	0.77	0.58	0.58	N/A
	WCDMA V	0.36	0.35	0.35	N/A
	LTE 2	0.44	0.73	0.73	N/A
	LTE 5	0.27	0.33	0.33	N/A
	LTE 7	0.36	1.12	1.32	2.13
	LTE 12/17	0.15	0.18	0.18	N/A
	LTE 13	0.15	0.19	0.19	N/A
	LTE 14	0.16	0.21	0.21	N/A
	LTE 41 / 38	0.42	0.93	0.78	2.43
	LTE 66 / 4	0.50	0.48	0.48	N/A
DTS	2.4G WLAN	1.02	0.26	0.23	N/A
NII	5G WLAN	0.50	0.73	0.73	0.50
DSS	Bluetooth	0.01	0.04	0.04	N/A
DXX	NFC	N/A	N/A	N/A	N/A

Highest Simultaneous Transmission SAR_{1g}	PCE (W/kg)	DTS (W/kg)	NII (W/kg)	DSS (W/kg)
	1.52	1.52	1.52	1.34

Highest Simultaneous Transmission SAR_{10g}	PCE (W/kg)	DTS (W/kg)	NII (W/kg)	DSS (W/kg)
	2.43	N/A	2.43	N/A

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	Smart Phone
FCC ID	ZLE-PSM05G
Brand Name	RugGear
Model Name	PSM05G
Marking Name	RG880i
IMEI Code	IMEI 1: 866984070000706 IMEI 2: 866984070000714
HW Version	V02
SW Version	RG880i_EAA_00.00_1
Tx Frequency Bands (Unit: MHz)	GSM850 : 824 ~ 849 GSM1900 : 1850 ~ 1910 CDMA BC0 : 824 ~ 849 CDMA BC1 : 1850 ~ 1910 WCDMA Band II : 1850 ~ 1910 WCDMA Band IV : 1710 ~ 1755 WCDMA Band V : 824 ~ 849 LTE Band 2 : 1850 ~ 1910 LTE Band 4 : 1710 ~ 1755 LTE Band 5 : 824 ~ 849 LTE Band 7 : 2500 ~ 2570 LTE Badn 12 : 699 ~ 716 LTE Band 13 : 777 ~ 787 LTE Band 14 : 788 ~ 798 LTE Band 17 : 704 ~ 716 LTE Band 38 : 2570 ~ 2620 LTE Band 41 : 2496 ~ 2690 LTE Band 66 : 1710 ~ 1780 WLAN : 2412 ~ 2462, 5180 ~ 5240, 5260 ~ 5320, 5745 ~ 5825 Bluetooth : 2402 ~ 2480 NFC : 13.56
Uplink Modulations	GSM & GPRS & EDGE : GMSK, 8PSK WCDMA : QPSK LTE : QPSK, 16QAM, 64QAM 802.11b : DSSS 802.11a/g/n/ac : OFDM Bluetooth : GFSK, π/4-DQPSK, 8-DPSK NFC : ASK
Maximum Tune-up Conducted Power (Unit: dBm)	Please refer to section 4.5.1 of this report.
Antenna Type	PIFA Antenna
EUT Stage	Identical Prototype

Note:

1. The above EUT information is declared by manufacturer and for more detailed features description please refers to the manufacturer's specifications or User's Manual.
2. This device supports both LTE B4/17/38 and B12/41/66. Since the supported frequency span for LTE B4/17/38 falls completely within the LTE B12/41/66, they have the same target power, and share the same transmission path, therefore SAR was only assessed for B12/41/66.
3. For LTE Band 7, when the audio is actively routed through the earpiece receiver on head exposure condition, power reduction will be activated to limit the maximum power.
4. For LTE Band 7/38/41, when the hotspot function is activated, power reduction will be activated to limit the maximum power.
5. For LTE Band 7, when the SAR sensor detected close to body state and is applied to extremity exposure condition, power reduction will be activated to limit the maximum power. Proximity sensor triggering distances please refer to section 4.1 of this report.

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:

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

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

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

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

3.2 SPEAG DASY System

DASY system consists of high precision robot, probe alignment sensor, phantom, robot controller, controlled measurement server and near-field probe. The robot includes six axes that can move to the precision position of the 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.

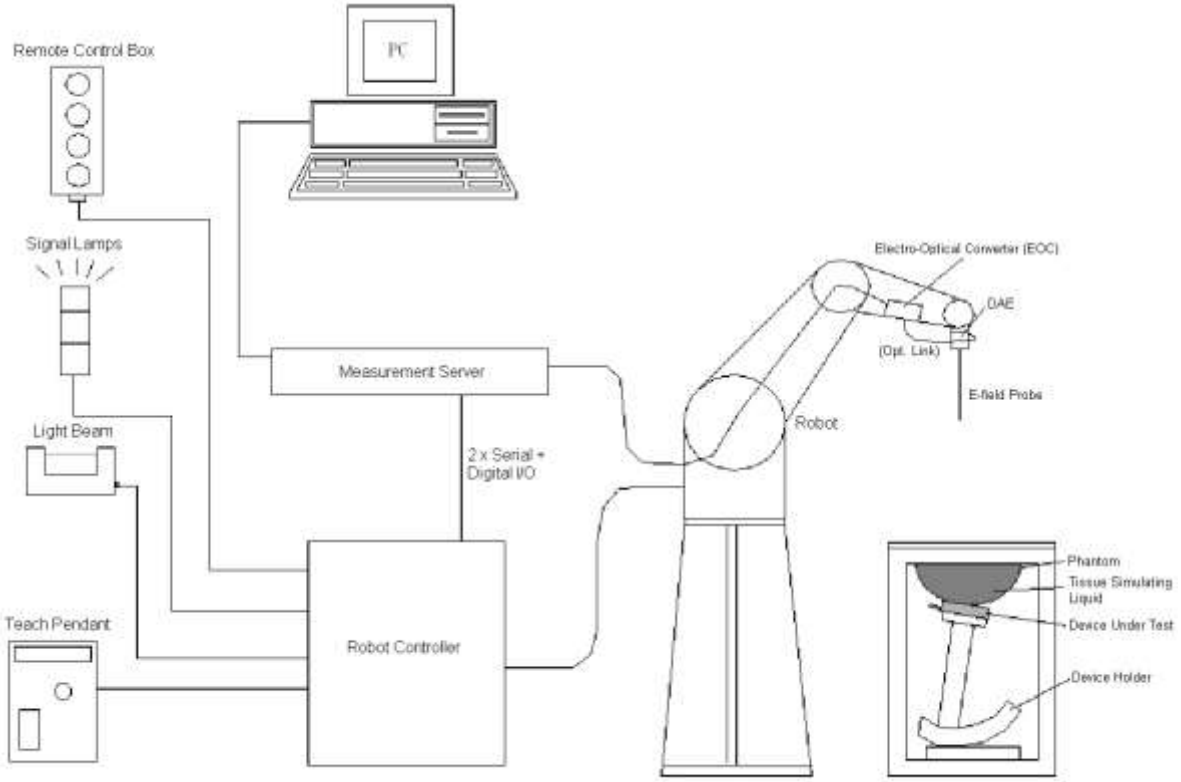


Fig-3.1 DASY System Setup

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.

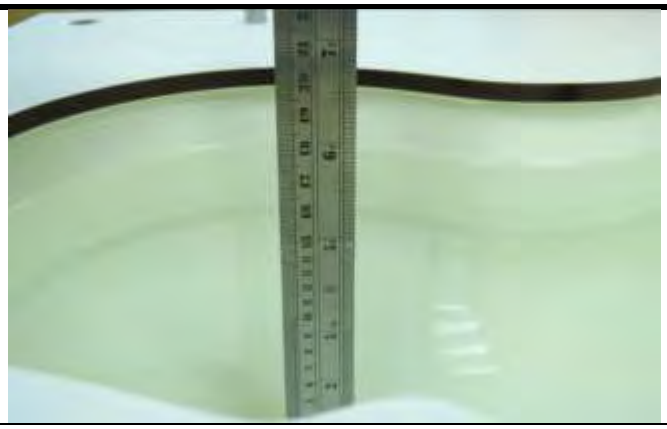


Photo of Liquid Height for Head Position

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

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

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.

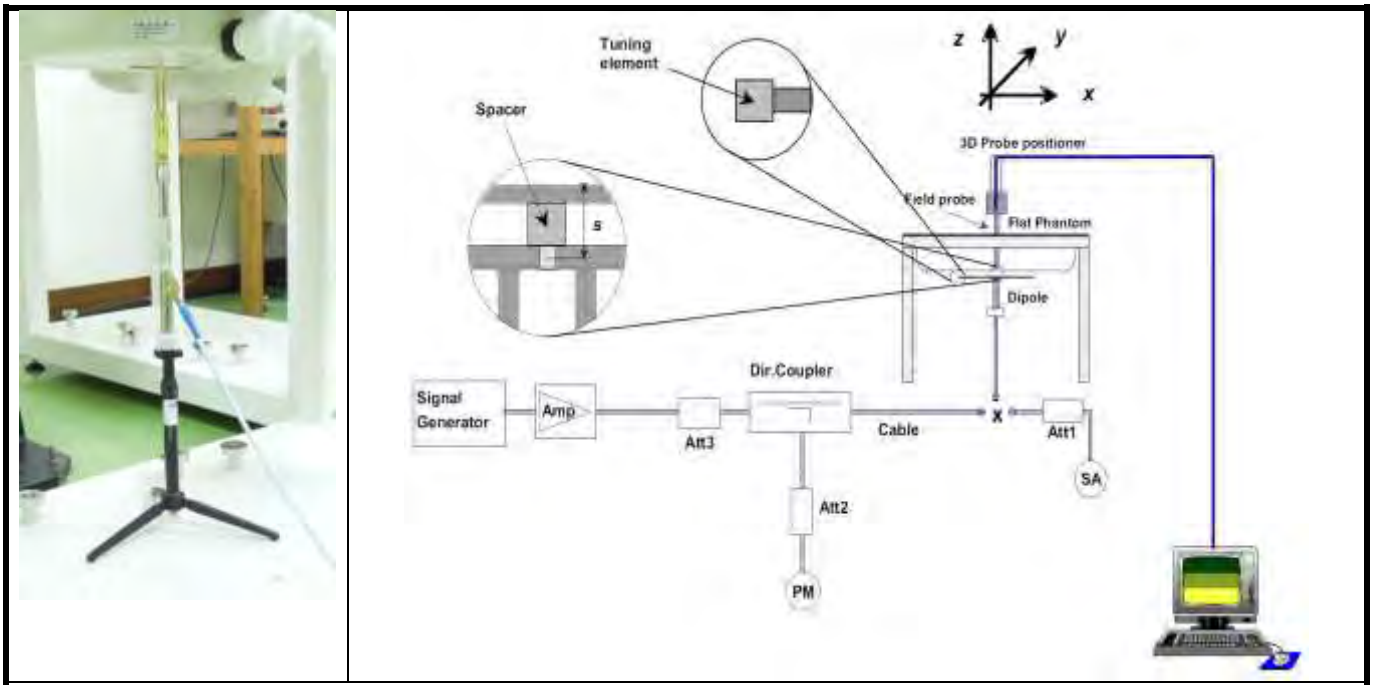


Fig-3.4 System Verification Setup

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

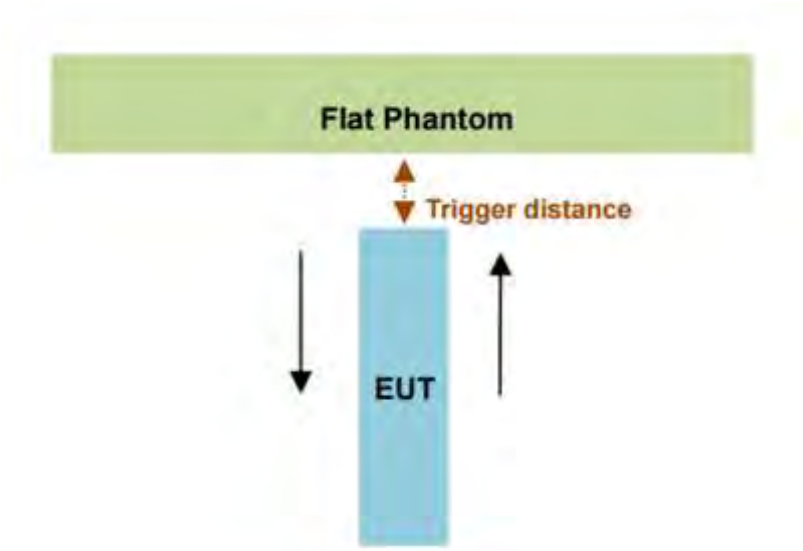
<Connections between EUT and System Simulator>

For WWAN SAR testing, the EUT was linked and controlled by base station emulator (MT8820C is used for GSM/WCDMA/LTE, E5515C is used for CDMA). 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.

< Proximity Sensor Triggering Distances >

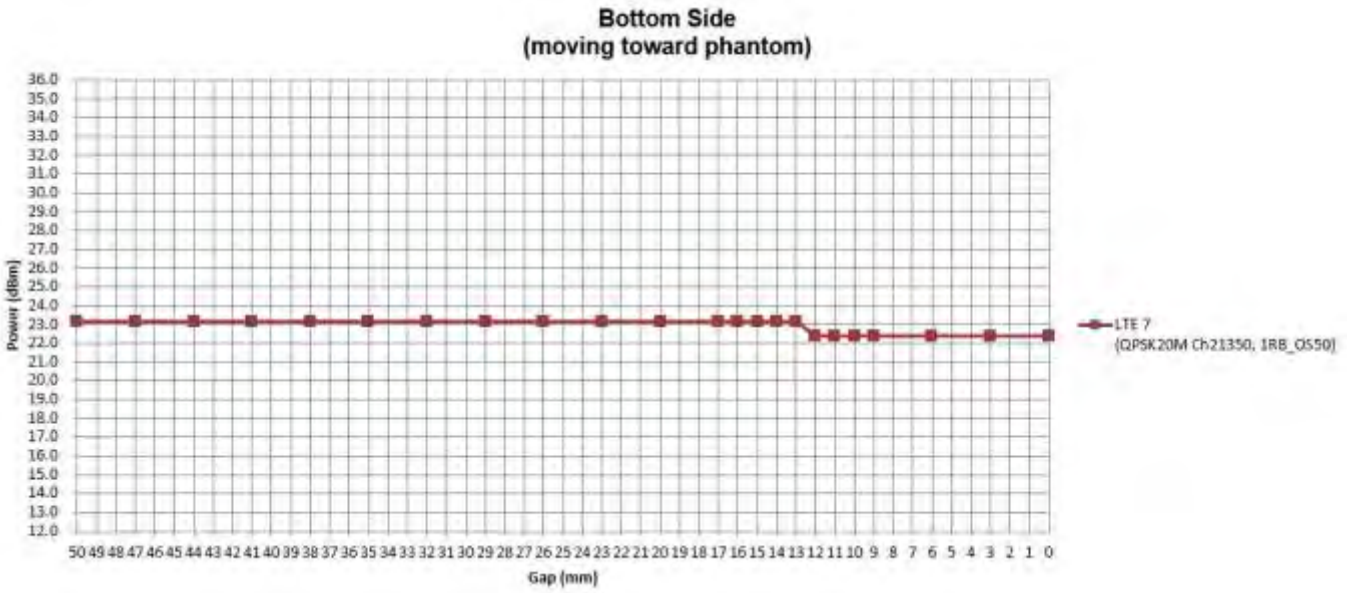
The proximity sensor triggering distance was determined per KDB 616217 section 6.2, and EUT moving further away from the flat phantom and EUT moving toward the flat phantom were both assessed.

In the preliminary triggering distance testing, the tissue-equivalent medium for different frequency bands were used for verification; no other frequency bands tissue-equivalent medium was found to result in shortest triggering than that for 5700MHz, and the tissue-equivalent medium for 5700MHz was used for formal proximity sensor triggering testing.

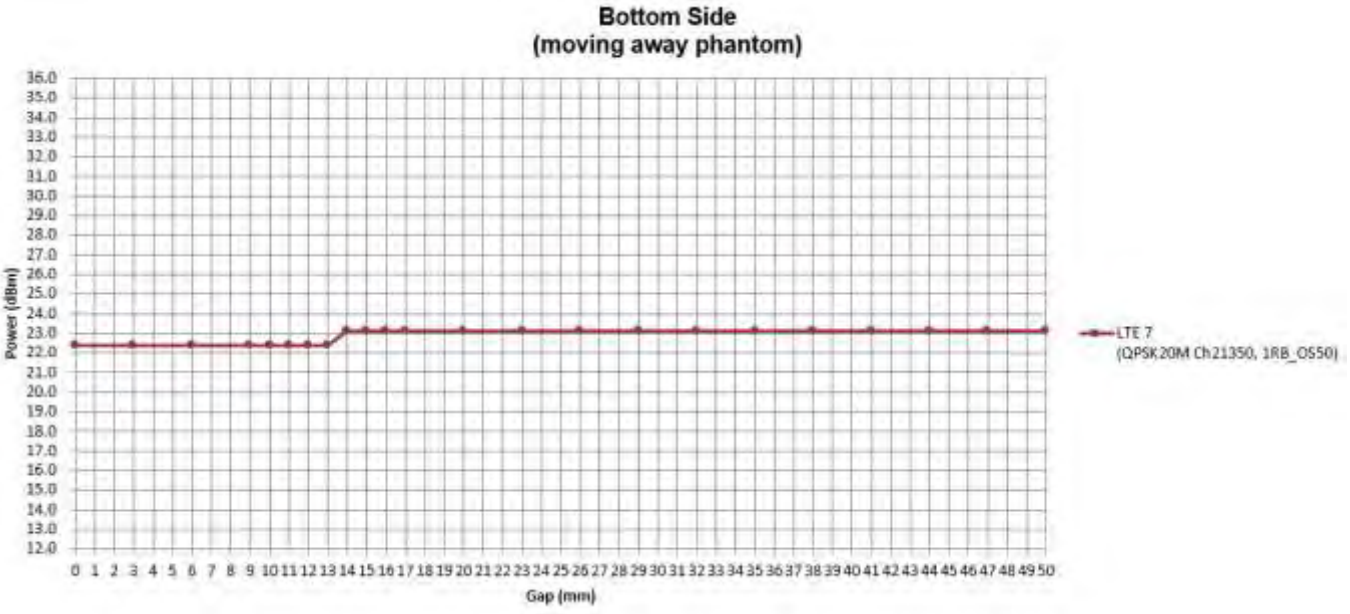


Summary for power verification per distance was tabulated in the below table.

Output Power Verification in dBm for EUT Bottom Side (Moving toward phantom)											
Distance (mm)	0~8	9	10	11	12	13	14	15	16	17	18~50
LTE 7 Ch21350 (QPSK20M_1RB_OS50)	22.37	22.37	22.37	22.37	22.37	22.37	23.14	23.14	23.14	23.14	23.14



Output Power Verification in dBm for EUT Bottom Side (Moving away phantom)											
Distance (mm)	0~8	9	10	11	12	13	14	15	16	17	18~50
LTE 7 Ch21350 (QPSK20M_1RB_OS50)	22.37	22.37	22.37	22.37	22.37	22.37	23.14	23.14	23.14	23.14	23.14



< Proximity Sensor Coverage >

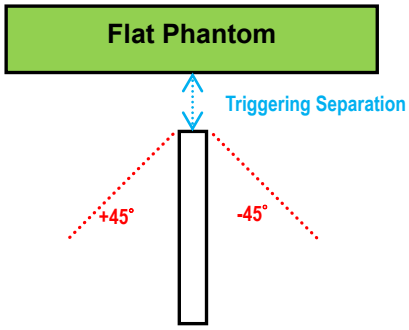
In KDB 616217 section 6.3, if a sensor is spatially offset from the antenna(s), it is necessary to verify sensor triggering for conditions where the antenna is next to the user, but the sensor is laterally further away to ensure sensor coverage is sufficient for reducing the power to maintain compliance. For p-sensor coverage testing, the device is moved and "along the direction of maximum antenna and sensor offset".

However, this device uses a capacitive proximity sensor that is same metallic component as the transmitting antenna to facilitate triggering in any condition the user may use the device in proximity of the antenna in the device.

Therefore, no further sensor coverage assessments were required.

<Proximity Sensor Tilt Angle Influences>

The proximity sensor tilt angle influence was determined per KDB 616217 for applicable edge. Summary for proximity sensor tilt angle influence is shown in below.



Orientation	Separation Distance (mm)	Tilt Angle										
		-45°	-40°	-30°	-20°	-10°	0°	10°	20°	30°	40°	45°
Bottom Side	13	On	On	On	On	On	On	On	On	On	On	On

Summary for Proximity Sensor Triggering Distance

The detailed trigger distance is as follows:

Test position	Rear Face	Left Side	Right Side	Top Side	Bottom Side
WWAN Antenna	No trigger	No trigger	No trigger	No trigger	13mm

Note:

1. Power reduction depends on the proximity sensor input. For a steady SAR test, the power reduction was enabled or disabled manually by engineering software during SAR testing.
2. For verification of compliance of power reduction scheme, additional SAR testing with EUT transmitting at full RF power at a conservative trigger distance -1mm was performed.

<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.

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)

<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 ⇔ A_{hs} = β_{hs} / β_c = 30 / 15 ⇔ 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.

DC-HSDPA SAR Guidance

The 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Otherwise, when SAR is required for Rel. 5 HSDPA, SAR is required for Rel. 8 DC-HSDPA. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS 34.121-1 to determine SAR test reduction. A primary and a secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable.

<Considerations Related to CDMA for Setup and Testing>

CDMA 1xRTT Handsets Head SAR

SAR for next to the ear head exposure is measured in RC3 with the handset configured to transmit at full rate in SO55. The 3G SAR test reduction procedure is applied to RC1 with RC3 as the primary mode. Otherwise, SAR is required for the channel with maximum measured output in RC1 using the head exposure configuration that results in the highest reported SAR in RC3.

CDMA 1xRTT Handsets Body-worn SAR

Body-worn SAR is measured in RC3 with the handset configured in TDSO/SO32 to transmit at full rate on FCH only with all other code channels disabled. The 3G SAR test reduction procedure is applied to the multiple code channel configuration (FCH + SCH_n), with FCH only as the primary mode. Otherwise, SAR is required for multiple code channel configuration (FCH + SCH_n), with FCH at full rate and SCH_0 enabled at 9600 bps, using the highest reported SAR configuration for FCH only. The 3G SAR test reduction procedure is applied to body-worn SAR in RC1 with RC3 as the primary mode. Otherwise, SAR is required for RC1, with SO55 and full rate, using the highest reported SAR configuration for body-worn exposure in RC3.

Handsets with built-in EV-DO

The 3G SAR test reduction procedure is applied to EV-DO Rev. 0 with 1xRTT RC3 as the primary mode to determine body-worn test requirements. Otherwise, body-worn SAR is required for Rev. 0, at 153.6 kbps, using the highest reported SAR configuration for body-worn exposure in RC3. The 3G SAR test reduction procedure is applied separately to Rev. A and Rev. B, with Rev. 0 as the primary mode to determine body-worn SAR test requirements. When SAR is not required for Rev. 0, the 3G SAR test reduction is applied with 1xRTT RC3 as the primary mode. Otherwise, SAR is required for Rev. A or Rev. B, with a Reverse Data Channel payload size of 4096 bits and a Termination Target of 16 slots defined for Subtype 2 and 3 Physical Layer configurations, using the highest reported SAR configuration for body-worn exposure in Rev. 0 or RC3, as appropriate. A Forward Traffic Channel data rate corresponding to the 2-slot version of 307.2 kbps with ACK Channel transmitting in all slots is configured in the downlink for Rev. 0, Rev. A and Rev. B.

EV-DO Data Devices

SAR is measured using the F/R TAP configurations required for Rev. 0, Rev. A and Rev. B. The AT is tested with a Reverse Data Channel rate of 153.6 kbps in Subtype 0/1 Physical Layer configurations. A Reverse Data Channel payload size of 4096 bits and Termination Target of 16 slots are used for Subtype 2 and 3. FTAP, FETAP and FMCTAP are all configured with a Forward Traffic Channel data rate corresponding to the 2-slot version of 307.2 kbps with ACK Channel transmitting in all slots. AT power control is in “All Bits Up” conditions for the TAP / ETAP / MCTAP. Body-worn and other body SAR are measured using Subtype 0/1 Physical Layer configurations for Rev. 0. The 3G SAR test reduction procedure is applied to Rev. A, Subtype 2 Physical layer configuration, with Rev. 0 as the primary mode. Otherwise, SAR is measured for Rev. A using the highest reported SAR configuration for body-worn exposure in Rev. 0. SAR is required for Rev. B, Subtype 3; it is measured by applying both the “test 2” and “test 3” configurations used for power measurement.

EV-DO Data Devices Support 1xRTT

The 3G SAR test reduction procedure is applied to 1xRTT RC3 and RC1 with EV-DO Rev. 0, Rev. A and Rev. B as the respective primary modes. Otherwise, the “CDMA 1xRTT Handsets Body-worn SAR” procedures are applied.

1x-Advanced SAR Guidance

The 3G SAR test reduction procedure is applied to 1x-Advanced with 1xRTT RC3 as the primary mode. When SAR measurement is required, the 1x-Advanced power measurement configurations are used. The 1x Advanced SAR procedures are applied separately to head, body-worn and other exposure conditions.

<Considerations Related to LTE for Setup and Testing>

This device contains LTE transmitter which follows 3GPP standards, supports QPSK, 16QAM and 64QAM 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 16QAM and 64QAM 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		
17			V	V		
38			V	V	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
64QAM	<= 5	<= 4	<= 8	<= 12	<= 16	<= 18	2
64QAM	> 5	> 4	> 8	> 12	> 16	> 18	3

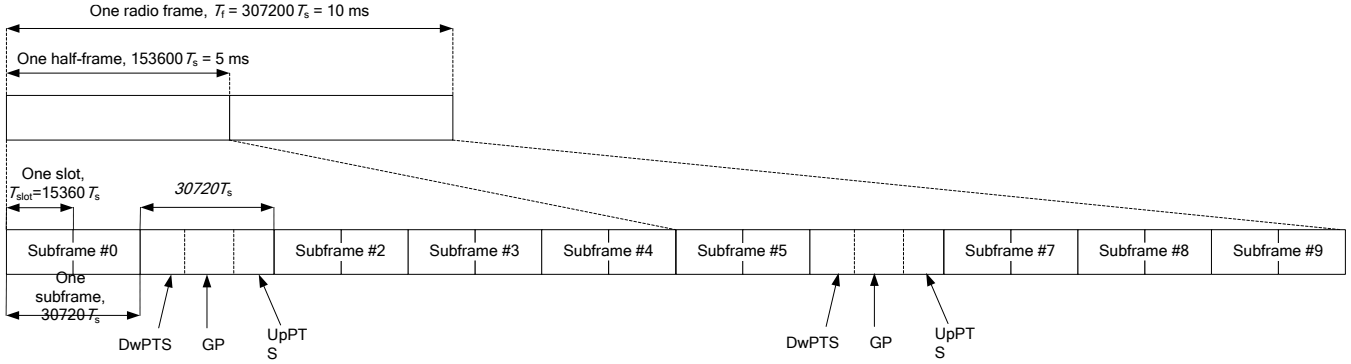
Note: MPR is according to the standard and implemented in the circuit (mandatory).

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.

TDD-LTE Setup Configurations

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%

Considering the highest transmission duty cycle, TDD-LTE was tested using Uplink-Downlink Configuration 0 with 6 uplink subframe and 2 special subframe. The special subframe was set to special subframe configuration 7 using extended cyclic prefix uplink. Therefore, SAR testing for TDD-LTE was performed at the maximum output power with highest transmission duty cycle of 63.33%.

SAR Measurements for Intra-Band Contiguous CA

EUT Supported Combinations of Uplink Carrier Aggregation
Intra-Band 2CC Uplink CA Operating Bands
CA_7C, CA41C

Note:

1. UL CA shall be tested based on the worst-case SAR configuration determined from non-CA SAR testing result. Channel BW, channel number, RB allocation, etc. would be selected to allow contiguous CA of PCC and SCC. Uplink output power for UL CA is the total power measured across the PCC and SCC.
2. The UL CA mode power measurements represent the total power across both carriers. Measurements were made for all supported PCC bandwidths using the channel/RB combination resulting in the highest standalone output power at the least MPR (0 dB). SCC were set to use configurations similar to the PCC to establish conservative or worst-case equivalent SAR test conditions (highest maximum output power with MPR of 0 dB and RB allocation setting).
3. PCC RB allocation setting for UL CA has been adjusted based on the worst-case power.
4. According to November 2017 TCB workshop, Uplink CA SAR Test Guidance as follows:
   a) When the maximum output power for UL CA is ≤ standalone LTE mode (without CA)
      • PCC is configured according to the highest standalone SAR configuration tested
      • SCC and subsequent CCs are configured according to procedures used for power measurement and parameters (BW, RB etc.) similar to that used for the PCC
   b) When the Reported SAR for UL CA configuration, described above, is > 1.2W/kg, UL CA is also required for all required test channels(PCC based)
   c) UL CA SAR is also required for standalone SAR configurations > 1.2W/kg when they are scaled to the UL CA power level
5. PCC RB allocation setting for UL CA has been adjusted based on the worst-case power, for detailed UL CA output power measurement results, please refer to Appendix D.

<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

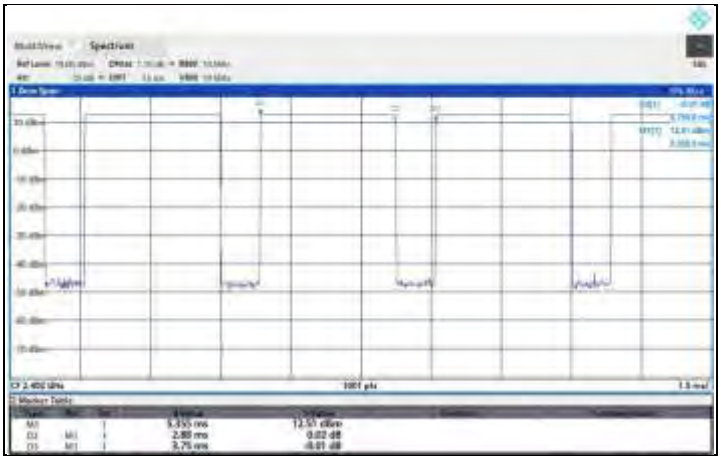
For devices that operate in both U-NII bands using the same transmitter and antenna(s), SAR test reduction is determined according to the following.
1) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the 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.

<BT Duty Cycle of Test Signal>

BT_GFSK: Duty cycle = 2.88 / 3.75 = 0.768



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 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.

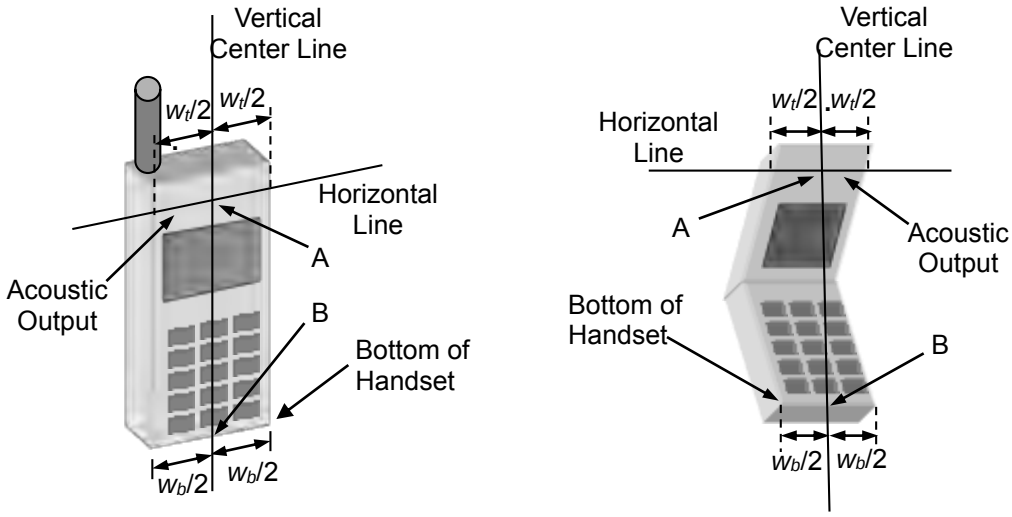


Fig-4.1 Illustration for Handset Vertical and Horizontal Reference Lines

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).

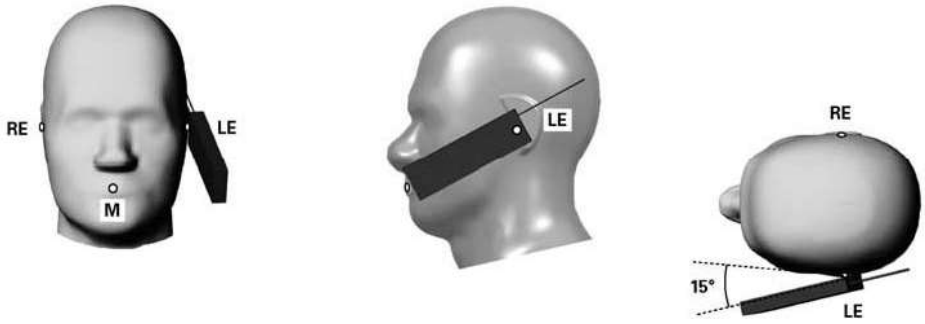


Fig-4.3 Illustration for Tilted Position

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.

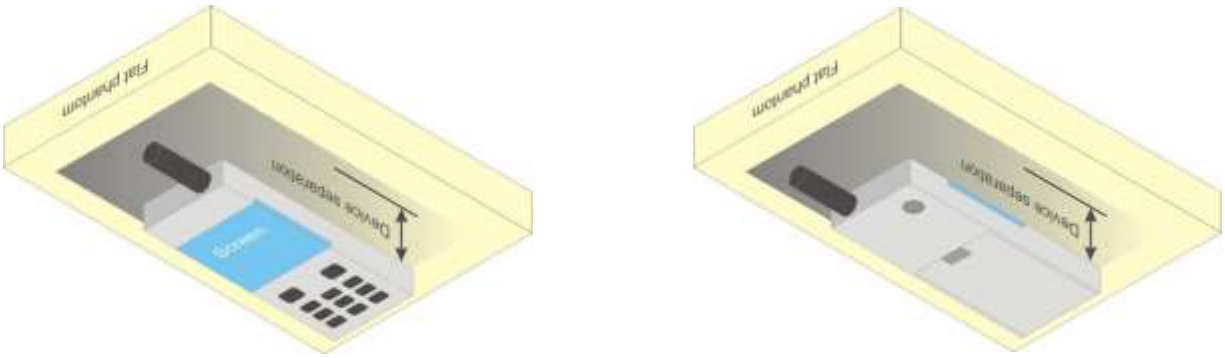
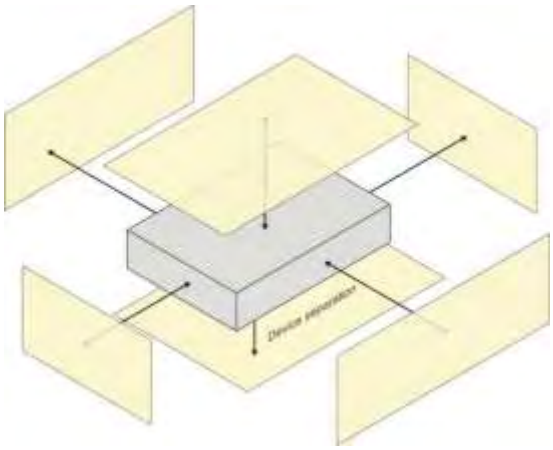


Fig-4.4 Illustration for Body Worn Position

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 E 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	V	V	V	V		V
WLAN / BT-Ant	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	Body-worn	Hotspot	Extremity
1	WWAN + WLAN2.4G	Yes			
2	WWAN + WLAN5G	Yes			
3	WWAN + BT	Yes			

4.2.6 SAR Text Exclusion Evaluations

For NFC：

1. Maximum output power = 2000 mW
2. Duty Cycle = 99%
3. Length of each event = 0.5 second
4. Events per observation period = 2 times
5. Observation period = 360 seconds

Based on the above data, calculated the time-averaged power: (2000*0.99*0.5*2)/360 = 5.5 mW.

According to KDB 447498 D01v06, the SAR test exclusion condition is based on source-based time-averaged maximum conducted output power, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions. The SAR exclusion threshold is determined by the following.

Mode	Max. Tune-up Power (mW)	Ant. to Surface (mm)	Exemption limit (mW)	Require SAR Testing?
NFC (13.56MHz)	5.5	5	442	No

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 (%)
Sep. 19, 2024	HSL	750	22.4	0.892	41.078	0.89	41.90	0.22	-1.96
Sep. 20, 2024	HSL	750	22.6	0.890	40.774	0.89	41.90	0.00	-2.69
Sep. 20, 2024	HSL	835	22.5	0.906	41.947	0.90	41.50	0.67	1.08
Sep. 21, 2024	HSL	835	22.5	0.889	40.759	0.90	41.50	-1.22	-1.79
Sep. 22, 2024	HSL	1750	22.7	1.355	40.368	1.37	40.10	-1.09	0.67
Sep. 01, 2024	HSL	1900	22.5	1.438	40.253	1.40	40.00	2.71	0.63
Sep. 02, 2024	HSL	1900	22.7	1.373	40.271	1.40	40.00	-1.93	0.68
Sep. 03, 2024	HSL	2450	22.7	1.858	38.545	1.80	39.20	3.22	-1.67
Sep. 23, 2024	HSL	2600	22.4	2.053	37.984	1.96	39.00	4.74	-2.61
Oct. 18, 2024	HSL	2600	22.6	1.934	39.040	1.96	39.00	-1.33	0.10
Sep. 24, 2024	HSL	5250	22.6	4.563	35.226	4.71	35.90	-3.12	-1.88
Sep. 25, 2024	HSL	5250	22.4	4.558	35.217	4.71	35.90	-3.23	-1.90
Sep. 25, 2024	HSL	5800	22.4	5.174	34.422	5.27	35.30	-1.82	-2.49

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 Verification

The measuring result for system verification is tabulated as below.

<1g>

Test Date	Mode	Frequency (MHz)	1W Target SAR-1g (W/kg)	Measured SAR-1g (W/kg)	Normalized to 1W SAR-1g (W/kg)	Deviation (%)	Dipole S/N	Probe S/N	DAE S/N
Sep. 19, 2024	Head	750	8.49	2.16	8.64	1.77	1067	3985	1389
Sep. 20, 2024	Head	750	8.49	2.12	8.48	-0.12	1067	3985	1389
Sep. 20, 2024	Head	835	9.57	2.48	9.92	3.66	4d139	3985	1389
Sep. 21, 2024	Head	835	9.57	2.37	9.48	-0.94	4d139	3985	1389
Sep. 22, 2024	Head	1750	36.30	8.37	33.48	-7.77	1071	3985	1389
Sep. 01, 2024	Head	1900	39.80	9.43	37.72	-5.23	5d159	3985	1389
Sep. 02, 2024	Head	1900	39.80	9.16	36.64	-7.94	5d159	3985	1389
Sep. 03, 2024	Head	2450	53.10	12.50	50.00	-5.84	893	3985	1389
Sep. 23, 2024	Head	2600	55.90	14.60	58.40	4.47	1110	3985	1389
Oct. 18, 2024	Head	2600	55.90	13.10	52.40	-6.26	1110	3985	1389
Sep. 24, 2024	Head	5250	77.70	7.37	73.70	-5.15	1133	3985	1389
Sep. 25, 2024	Head	5250	77.70	7.47	74.70	-3.86	1133	3985	1389
Sep. 25, 2024	Head	5800	78.60	7.26	72.60	-7.63	1133	3985	1389

<10g>

Test Date	Mode	Frequency (MHz)	1W Target SAR-10g (W/kg)	Measured SAR-10g (W/kg)	Normalized to 1W SAR-10g (W/kg)	Deviation (%)	Dipole S/N	Probe S/N	DAE S/N
Sep. 19, 2024	Head	750	5.59	1.45	5.80	3.76	1067	3985	1389
Sep. 20, 2024	Head	750	5.59	1.42	5.68	1.61	1067	3985	1389
Sep. 20, 2024	Head	835	6.31	1.63	6.52	3.33	4d139	3985	1389
Sep. 21, 2024	Head	835	6.31	1.58	6.32	0.16	4d139	3985	1389
Sep. 22, 2024	Head	1750	19.50	4.51	18.04	-7.49	1071	3985	1389

Test Date	Mode	Frequency (MHz)	1W Target SAR-10g (W/kg)	Measured SAR-10g (W/kg)	Normalized to 1W SAR-10g (W/kg)	Deviation (%)	Dipole S/N	Probe S/N	DAE S/N
Sep. 19, 2024	Head	750	5.59	1.45	5.80	3.76	1067	3985	1389
Sep. 01, 2024	Head	1900	20.90	4.94	19.76	-5.45	5d159	3985	1389
Sep. 02, 2024	Head	1900	20.90	4.82	19.28	-7.75	5d159	3985	1389
Sep. 03, 2024	Head	2450	24.90	5.90	23.60	-5.22	893	3985	1389
Sep. 23, 2024	Head	2600	25.40	6.73	26.92	5.98	1110	3985	1389
Oct. 18, 2024	Head	2600	25.40	5.89	23.56	-7.24	1110	3985	1389
Sep. 24, 2024	Head	5250	22.00	2.10	21.00	-4.55	1133	3985	1389
Sep. 25, 2024	Head	5250	22.00	2.14	21.40	-2.73	1133	3985	1389
Sep. 25, 2024	Head	5800	22.00	2.03	20.30	-7.73	1133	3985	1389

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.

4.5 Maximum Output Power

4.5.1 Maximum Conducted Power

The maximum conducted average power (Unit: dBm) including tune-up tolerance please refer to Appendix D.

4.5.2 Measured Conducted Power Result

The measuring conducted average power (Unit: dBm) please refer to Appendix D.

4.6 SAR Testing Results

4.6.1 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) For WLAN MIMO mode, the power-based standalone SAR test exclusion or the sum of SAR provision in KDB 447498 to determine simultaneous transmission SAR test exclusion should be applied. Otherwise, SAR for MIMO mode will be measured with all applicable antennas transmitting simultaneously at the specified maximum output power of MIMO operation.

4.6.2 SAR Results for Head Exposure Condition

Plot No.	Band	Mode	Test Position	Ch.	RB#	RB Offset	Power Reduction	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled SAR-1g (W/kg)
P01	GSM850	GPRS 3Tx Slot	Right Cheek	128	-	-	Full	-	29.00	27.44	-0.13	0.572	1.000	1.432	**0.82**
	GSM850	GPRS 3Tx Slot	Right Tilted	128	-	-	Full	-	29.00	27.44	0.12	0.289	1.000	1.432	0.41
	GSM850	GPRS 3Tx Slot	Left Cheek	128	-	-	Full	-	29.00	27.44	0.04	0.554	1.000	1.432	0.79
	GSM850	GPRS 3Tx Slot	Left Tilted	128	-	-	Full	-	29.00	27.44	0.05	0.287	1.000	1.432	0.41
	GSM850	GPRS 3Tx Slot	Right Cheek	189	-	-	Full	-	29.00	27.33	-0.11	0.555	1.000	1.469	0.82
	GSM850	GPRS 3Tx Slot	Right Cheek	251	-	-	Full	-	29.00	27.26	0.01	0.396	1.000	1.493	0.59
	GSM1900	GPRS 4Tx Slot	Right Cheek	512	-	-	Full	-	26.00	25.31	0.06	0.078	1.000	1.172	0.09
	GSM1900	GPRS 4Tx Slot	Right Tilted	512	-	-	Full	-	26.00	25.31	0.11	0.059	1.000	1.172	0.07
	GSM1900	GPRS 4Tx Slot	Left Cheek	512	-	-	Full	-	26.00	25.31	-0.05	0.147	1.000	1.172	0.17
	GSM1900	GPRS 4Tx Slot	Left Tilted	512	-	-	Full	-	26.00	25.31	0.05	0.072	1.000	1.172	0.08
P02	GSM1900	GPRS 4Tx Slot	Left Cheek	661	-	-	Full	-	26.00	25.11	0.04	0.171	1.000	1.227	**0.21**
	GSM1900	GPRS 4Tx Slot	Left Cheek	810	-	-	Full	-	26.00	25.14	-0.15	0.139	1.000	1.219	0.17
	CDMA BC0	RC3+SO55	Right Cheek	384	-	-	Full	-	24.00	23.30	-0.08	0.277	1.000	1.175	0.33
	CDMA BC0	RC3+SO55	Right Tilted	384	-	-	Full	-	24.00	23.30	0.08	0.140	1.000	1.175	0.16
	CDMA BC0	RC3+SO55	Left Cheek	384	-	-	Full	-	24.00	23.30	-0.07	0.238	1.000	1.175	0.28
	CDMA BC0	RC3+SO55	Left Tilted	384	-	-	Full	-	24.00	23.30	0.08	0.129	1.000	1.175	0.15
	CDMA BC0	RC3+SO55	Right Cheek	1013	-	-	Full	-	24.00	23.26	0.07	0.236	1.000	1.186	0.28
P03	CDMA BC0	RC3+SO55	Right Cheek	777	-	-	Full	-	24.00	23.16	0.16	0.319	1.000	1.213	**0.39**
	CDMA BC1	RC3+SO55	Right Cheek	25	-	-	Full	-	24.00	22.85	0.12	0.259	1.000	1.303	0.34
	CDMA BC1	RC3+SO55	Right Tilted	25	-	-	Full	-	24.00	22.85	0.00	0.176	1.000	1.303	0.23
	CDMA BC1	RC3+SO55	Left Cheek	25	-	-	Full	-	24.00	22.85	0.17	0.475	1.000	1.303	0.62
	CDMA BC1	RC3+SO55	Left Tilted	25	-	-	Full	-	24.00	22.85	-0.07	0.199	1.000	1.303	0.26
P04	CDMA BC1	RC3+SO55	Left Cheek	600	-	-	Full	-	24.00	22.64	0.07	0.454	1.000	1.368	**0.62**
	CDMA BC1	RC3+SO55	Left Cheek	1175	-	-	Full	-	24.00	22.67	-0.12	0.395	1.000	1.358	0.54
	WCDMA II	RMC12.2K	Right Cheek	9538	-	-	Full	-	24.00	23.17	-0.15	0.172	1.000	1.211	0.21
	WCDMA II	RMC12.2K	Right Tilted	9538	-	-	Full	-	24.00	23.17	-0.04	0.147	1.000	1.211	0.18
	WCDMA II	RMC12.2K	Left Cheek	9538	-	-	Full	-	24.00	23.17	-0.07	0.353	1.000	1.211	0.43
	WCDMA II	RMC12.2K	Left Tilted	9538	-	-	Full	-	24.00	23.17	-0.13	0.174	1.000	1.211	0.21
	WCDMA II	RMC12.2K	Left Cheek	9262	-	-	Full	-	24.00	23.13	0.02	0.391	1.000	1.222	0.48
P05	WCDMA II	RMC12.2K	Left Cheek	9400	-	-	Full	-	24.00	23.05	-0.11	0.414	1.000	1.245	**0.52**
	WCDMA IV	RMC12.2K	Right Cheek	1413	-	-	Full	-	24.00	22.94	0.15	0.232	1.000	1.276	0.30
	WCDMA IV	RMC12.2K	Right Tilted	1413	-	-	Full	-	24.00	22.94	-0.18	0.117	1.000	1.276	0.15
	WCDMA IV	RMC12.2K	Left Cheek	1413	-	-	Full	-	24.00	22.94	-0.13	0.479	1.000	1.276	0.61
	WCDMA IV	RMC12.2K	Left Tilted	1413	-	-	Full	-	24.00	22.94	0.04	0.134	1.000	1.276	0.17
	WCDMA IV	RMC12.2K	Left Cheek	1312	-	-	Full	-	24.00	22.83	0.02	0.427	1.000	1.309	0.56
P06	WCDMA IV	RMC12.2K	Left Cheek	1513	-	-	Full	-	24.00	22.76	-0.12	0.579	1.000	1.330	**0.77**
P07	WCDMA V	RMC12.2K	Right Cheek	4233	-	-	Full	-	24.00	23.15	-0.04	0.300	1.000	1.216	**0.36**
	WCDMA V	RMC12.2K	Right Tilted	4233	-	-	Full	-	24.00	23.15	0.11	0.161	1.000	1.216	0.20
	WCDMA V	RMC12.2K	Left Cheek	4233	-	-	Full	-	24.00	23.15	-0.08	0.281	1.000	1.216	0.34
	WCDMA V	RMC12.2K	Left Tilted	4233	-	-	Full	-	24.00	23.15	-0.04	0.164	1.000	1.216	0.20
	WCDMA V	RMC12.2K	Right Cheek	4132	-	-	Full	-	24.00	23.07	0.11	0.188	1.000	1.239	0.23
	WCDMA V	RMC12.2K	Right Cheek	4182	-	-	Full	-	24.00	23.11	0.03	0.246	1.000	1.227	0.30
	LTE 2	QPSK20M	Right Cheek	18900	1	50	Full	-	23.50	22.76	0.14	0.159	1.000	1.186	0.19
	LTE 2	QPSK20M	Right Tilted	18900	1	50	Full	-	23.50	22.76	0.14	0.124	1.000	1.186	0.15
	LTE 2	QPSK20M	Left Cheek	18900	1	50	Full	-	23.50	22.76	-0.16	0.354	1.000	1.186	0.42
	LTE 2	QPSK20M	Left Tilted	18900	1	50	Full	-	23.50	22.76	0.02	0.151	1.000	1.186	0.18
	LTE 2	QPSK20M	Right Cheek	18900	50	25	Full	-	22.50	21.86	-0.01	0.132	1.000	1.159	0.15
	LTE 2	QPSK20M	Right Tilted	18900	50	25	Full	-	22.50	21.86	0.10	0.101	1.000	1.159	0.12
	LTE 2	QPSK20M	Left Cheek	18900	50	25	Full	-	22.50	21.86	-0.04	0.278	1.000	1.159	0.32
	LTE 2	QPSK20M	Left Tilted	18900	50	25	Full	-	22.50	21.86	-0.18	0.123	1.000	1.159	0.14
P08	LTE 2	QPSK20M	Left Cheek	18700	1	50	Full	-	23.50	22.60	-0.02	0.357	1.000	1.230	**0.44**
	LTE 2	QPSK20M	Left Cheek	19100	1	50	Full	-	23.50	22.73	0.08	0.339	1.000	1.194	0.40
P09	LTE 5	QPSK10M	Right Cheek	20450	1	24	Full	-	23.50	23.18	-0.07	0.247	1.000	1.076	**0.27**
	LTE 5	QPSK10M	Right Tilted	20450	1	24	Full	-	23.50	23.18	-0.16	0.129	1.000	1.076	0.14
	LTE 5	QPSK10M	Left Cheek	20450	1	24	Full	-	23.50	23.18	-0.18	0.223	1.000	1.076	0.24
	LTE 5	QPSK10M	Left Tilted	20450	1	24	Full	-	23.50	23.18	-0.03	0.137	1.000	1.076	0.15
	LTE 5	QPSK10M	Right Cheek	20450	25	12	Full	-	22.50	22.01	-0.03	0.166	1.000	1.119	0.19
	LTE 5	QPSK10M	Right Tilted	20450	25	12	Full	-	22.50	22.01	-0.06	0.090	1.000	1.119	0.10
	LTE 5	QPSK10M	Left Cheek	20450	25	12	Full	-	22.50	22.01	0.10	0.154	1.000	1.119	0.17
	LTE 5	QPSK10M	Left Tilted	20450	25	12	Full	-	22.50	22.01	-0.02	0.094	1.000	1.119	0.11

Plot No.	Band	Mode	Test Position	Ch.	RB#	RB Offset	Power Reduction	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled SAR-1g (W/kg)
	LTE 5	QPSK10M	Right Cheek	20525	1	24	Full	-	23.50	23.04	-0.18	0.221	1.000	1.112	0.25
	LTE 5	QPSK10M	Right Cheek	20600	1	24	Full	-	23.50	23.13	-0.19	0.230	1.000	1.089	0.25
	LTE 7	QPSK20M	Right Cheek	21350	1	50	Reduce	-	22.50	22.37	0.06	0.192	1.000	1.030	0.20
	LTE 7	QPSK20M	Right Tilted	21350	1	50	Reduce	-	22.50	22.37	0.08	0.155	1.000	1.030	0.16
P10	LTE 7	QPSK20M	Left Cheek	21350	1	50	Reduce	-	22.50	22.37	0.16	0.345	1.000	1.030	**0.36**
	LTE 7	QPSK20M	Left Tilted	21350	1	50	Reduce	-	22.50	22.37	-0.14	0.128	1.000	1.030	0.13
	LTE 7	QPSK20M	Right Cheek	21350	50	25	Reduce	-	22.50	22.26	-0.15	0.203	1.000	1.057	0.21
	LTE 7	QPSK20M	Right Tilted	21350	50	25	Reduce	-	22.50	22.26	-0.08	0.157	1.000	1.057	0.17
	LTE 7	QPSK20M	Left Cheek	21350	50	25	Reduce	-	22.50	22.26	0.12	0.335	1.000	1.057	0.35
	LTE 7	QPSK20M	Left Tilted	21350	50	25	Reduce	-	22.50	22.26	-0.10	0.124	1.000	1.057	0.13
	LTE 7	QPSK20M	Left Cheek	20850	1	50	Reduce	-	22.50	22.13	0.17	0.309	1.000	1.089	0.34
	LTE 7	QPSK20M	Left Cheek	21100	1	50	Reduce	-	22.50	22.08	0.18	0.321	1.000	1.102	0.35
	LTE 7C	QPSK20M	Left Cheek	PCC:21001 SCC:21199	PCC:1 SCC:1	PCC:99 SCC:0	Reduce	-	22.00	21.73	0.05	0.315	1.000	1.064	0.34
	LTE 12/17	QPSK10M	Right Cheek	23060	1	0	Full	-	23.50	23.19	0.02	0.133	1.000	1.074	0.14
	LTE 12/17	QPSK10M	Right Tilted	23060	1	0	Full	-	23.50	23.19	-0.13	0.069	1.000	1.074	0.07
	LTE 12/17	QPSK10M	Left Cheek	23060	1	0	Full	-	23.50	23.19	-0.11	0.126	1.000	1.074	0.14
	LTE 12/17	QPSK10M	Left Tilted	23060	1	0	Full	-	23.50	23.19	0.13	0.077	1.000	1.074	0.08
	LTE 12/17	QPSK10M	Right Cheek	23060	25	0	Full	-	22.50	21.97	0.14	0.102	1.000	1.130	0.12
	LTE 12/17	QPSK10M	Right Tilted	23060	25	0	Full	-	22.50	21.97	0.06	0.051	1.000	1.130	0.06
	LTE 12/17	QPSK10M	Left Cheek	23060	25	0	Full	-	22.50	21.97	-0.15	0.094	1.000	1.130	0.11
	LTE 12/17	QPSK10M	Left Tilted	23060	25	0	Full	-	22.50	21.97	0.09	0.057	1.000	1.130	0.06
P11	LTE 12/17	QPSK10M	Right Cheek	23095	1	0	Full	-	23.50	23.12	0.08	0.138	1.000	1.091	**0.15**
	LTE 12/17	QPSK10M	Right Cheek	23130	1	0	Full	-	23.50	23.15	0.02	0.136	1.000	1.084	0.15
	LTE 13	QPSK10M	Right Cheek	23230	1	0	Full	-	23.50	23.24	0.11	0.138	1.000	1.062	0.15
	LTE 13	QPSK10M	Right Tilted	23230	1	0	Full	-	23.50	23.24	0.05	0.081	1.000	1.062	0.09
P12	LTE 13	QPSK10M	Left Cheek	23230	1	0	Full	-	23.50	23.24	-0.02	0.142	1.000	1.062	**0.15**
	LTE 13	QPSK10M	Left Tilted	23230	1	0	Full	-	23.50	23.24	-0.14	0.093	1.000	1.062	0.10
	LTE 13	QPSK10M	Right Cheek	23230	25	0	Full	-	22.50	22.25	-0.06	0.108	1.000	1.059	0.11
	LTE 13	QPSK10M	Right Tilted	23230	25	0	Full	-	22.50	22.25	0.17	0.062	1.000	1.059	0.07
	LTE 13	QPSK10M	Left Cheek	23230	25	0	Full	-	22.50	22.25	S	0.107	1.000	1.059	0.11
	LTE 13	QPSK10M	Left Tilted	23230	25	0	Full	-	22.50	22.25	-0.04	0.070	1.000	1.059	0.07
P13	LTE 14	QPSK10M	Right Cheek	23330	1	0	Full	-	23.50	23.26	-0.18	0.148	1.000	1.057	**0.16**
	LTE 14	QPSK10M	Right Tilted	23330	1	0	Full	-	23.50	23.26	0.13	0.085	1.000	1.057	0.09
	LTE 14	QPSK10M	Left Cheek	23330	1	0	Full	-	23.50	23.26	-0.02	0.134	1.000	1.057	0.14
	LTE 14	QPSK10M	Left Tilted	23330	1	0	Full	-	23.50	23.26	-0.12	0.101	1.000	1.057	0.11
	LTE 14	QPSK10M	Right Cheek	23330	25	0	Full	-	22.50	22.08	-0.16	0.112	1.000	1.102	0.12
	LTE 14	QPSK10M	Right Tilted	23330	25	0	Full	-	22.50	22.08	0.06	0.059	1.000	1.102	0.06
	LTE 14	QPSK10M	Left Cheek	23330	25	0	Full	-	22.50	22.08	-0.12	0.101	1.000	1.102	0.11
	LTE 14	QPSK10M	Left Tilted	23330	25	0	Full	-	22.50	22.08	0.07	0.074	1.000	1.102	0.08
	LTE 41/38	QPSK20M	Right Cheek	41490	1	50	Full	62.9	23.50	23.01	0.00	0.207	1.006	1.119	0.23
	LTE 41/38	QPSK20M	Right Tilted	41490	1	50	Full	62.9	23.50	23.01	0.07	0.192	1.006	1.119	0.22
	LTE 41/38	QPSK20M	Left Cheek	41490	1	50	Full	62.9	23.50	23.01	-0.12	0.360	1.006	1.119	0.41
	LTE 41/38	QPSK20M	Left Tilted	41490	1	50	Full	62.9	23.50	23.01	0.15	0.160	1.006	1.119	0.18
	LTE 41/38	QPSK20M	Right Cheek	41490	50	25	Full	62.9	22.50	21.95	-0.14	0.159	1.006	1.135	0.18
	LTE 41/38	QPSK20M	Right Tilted	41490	50	25	Full	62.9	22.50	21.95	-0.16	0.147	1.006	1.135	0.17
	LTE 41/38	QPSK20M	Left Cheek	41490	50	25	Full	62.9	22.50	21.95	0.06	0.289	1.006	1.135	0.33
	LTE 41/38	QPSK20M	Left Tilted	41490	50	25	Full	62.9	22.50	21.95	-0.17	0.124	1.006	1.135	0.14
	LTE 41/38	QPSK20M	Left Cheek	39750	1	50	Full	62.9	23.50	22.80	0.18	0.223	1.006	1.175	0.26
	LTE 41/38	QPSK20M	Left Cheek	39790	1	50	Full	62.9	23.50	22.94	0.02	0.223	1.006	1.138	0.26
	LTE 41/38	QPSK20M	Left Cheek	40185	1	50	Full	62.9	23.50	22.96	0.00	0.293	1.006	1.132	0.33
P14	LTE 41/38	QPSK20M	Left Cheek	40620	1	50	Full	62.9	23.50	22.98	-0.01	0.370	1.006	1.127	**0.42**
	LTE 41/38	QPSK20M	Left Cheek	41055	1	50	Full	62.9	23.50	23.00	-0.18	0.359	1.006	1.122	0.41
	LTE 41C	QPSK20M	Left Cheek	PCC:40521 SCC:40719	PCC:1 SCC:1	PCC:99 SCC:0	Full	62.9	23.00	22.52	0.11	0.336	1.006	1.117	0.38
	LTE 66 /4	QPSK20M	Right Cheek	132322	1	99	Full	-	23.50	23.12	0.12	0.310	1.000	1.091	0.34
	LTE 66 /4	QPSK20M	Right Tilted	132322	1	99	Full	-	23.50	23.12	-0.07	0.153	1.000	1.091	0.17
	LTE 66 /4	QPSK20M	Left Cheek	132322	1	99	Full	-	23.50	23.12	0.01	0.454	1.000	1.091	0.50
	LTE 66 /4	QPSK20M	Left Tilted	132322	1	99	Full	-	23.50	23.12	0.06	0.115	1.000	1.091	0.13
	LTE 66 /4	QPSK20M	Right Cheek	132322	50	25	Full	-	22.50	21.80	0.00	0.217	1.000	1.175	0.25
	LTE 66 /4	QPSK20M	Right Tilted	132322	50	25	Full	-	22.50	21.80	-0.02	0.110	1.000	1.175	0.13
	LTE 66 /4	QPSK20M	Left Cheek	132322	50	25	Full	-	22.50	21.80	0.04	0.369	1.000	1.175	0.43
	LTE 66 /4	QPSK20M	Left Tilted	132322	50	25	Full	-	22.50	21.80	-0.19	0.093	1.000	1.175	0.11
P15	LTE 66 /4	QPSK20M	Left Cheek	132072	1	99	Full	-	23.50	23.09	0.01	0.458	1.000	1.099	**0.50**
	LTE 66 /4	QPSK20M	Left Cheek	132572	1	99	Full	-	23.50	23.02	-0.18	0.442	1.000	1.117	0.49
	WLAN2.4G	802.11b	Right Cheek	1	-	-	Full	98.51	18.50	18.17	-0.09	0.716	1.015	1.079	0.78
	WLAN2.4G	802.11b	Right Tilted	1	-	-	Full	98.51	18.50	18.17	0.18	0.500	1.015	1.079	0.55

Plot No.	Band	Mode	Test Position	Ch.	RB#	RB Offset	Power Reduction	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled SAR-1g (W/kg)
	WLAN2.4G	802.11b	Left Cheek	1	-	-	Full	98.51	18.50	18.17	0.08	0.321	1.015	1.079	0.35
	WLAN2.4G	802.11b	Left Tilted	1	-	-	Full	98.51	18.50	18.17	-0.16	0.243	1.015	1.079	0.27
	WLAN2.4G	802.11b	Right Cheek	6	-	-	Full	98.51	18.50	17.58	-0.03	0.648	1.015	1.236	0.81
P16	WLAN2.4G	802.11b	Right Cheek	11	-	-	Full	98.51	18.50	17.29	0.01	0.762	1.015	1.321	**1.02**
	WLAN5G	802.11a	Right Cheek	64	-	-	Full	98.39	16.00	15.41	-0.03	0.269	1.016	1.146	0.31
	WLAN5G	802.11a	Right Tilted	64	-	-	Full	98.39	16.00	15.41	-0.07	0.237	1.016	1.146	0.28
	WLAN5G	802.11a	Left Cheek	64	-	-	Full	98.39	16.00	15.41	-0.02	0.157	1.016	1.146	0.18
	WLAN5G	802.11a	Left Tilted	64	-	-	Full	98.39	16.00	15.41	-0.19	0.179	1.016	1.146	0.21
P17	WLAN5G	802.11a	Right Cheek	52	-	-	Full	98.39	16.00	14.71	-0.02	0.363	1.016	1.346	**0.50**
	WLAN5G	802.11a	Right Cheek	56	-	-	Full	98.39	16.00	14.89	-0.14	0.320	1.016	1.291	0.42
	WLAN5G	802.11a	Right Cheek	60	-	-	Full	98.39	16.00	14.92	-0.08	0.296	1.016	1.282	0.39
	WLAN5G	802.11a	Right Cheek	149	-	-	Full	98.39	15.00	14.86	-0.15	0.244	1.016	1.033	0.26
	WLAN5G	802.11a	Right Tilted	149	-	-	Full	98.39	15.00	14.86	0.14	0.199	1.016	1.033	0.21
	WLAN5G	802.11a	Left Cheek	149	-	-	Full	98.39	15.00	14.86	-0.16	0.187	1.016	1.033	0.20
	WLAN5G	802.11a	Left Tilted	149	-	-	Full	98.39	15.00	14.86	0.06	0.178	1.016	1.033	0.19
P18	WLAN5G	802.11a	Right Cheek	157	-	-	Full	98.39	15.00	13.28	-0.07	0.260	1.016	1.486	**0.39**
	WLAN5G	802.11a	Right Cheek	165	-	-	Full	98.39	15.00	14.51	0.15	0.252	1.016	1.119	0.29
	BT	GFSK	Right Cheek	78	-	-	Full	76.8	9.00	8.60	0.01	0.005	1.302	1.096	0.01
	BT	GFSK	Right Tilted	78	-	-	Full	76.8	9.00	8.60	-0.10	0.004	1.302	1.096	0.01
	BT	GFSK	Left Cheek	78	-	-	Full	76.8	9.00	8.60	-0.16	0.004	1.302	1.096	0.01
	BT	GFSK	Left Tilted	78	-	-	Full	76.8	9.00	8.60	-0.14	0.003	1.302	1.096	0.00
	BT	GFSK	Right Cheek	0	-	-	Full	76.8	9.00	8.16	-0.12	0.004	1.302	1.213	0.01
P19	BT	GFSK	Right Cheek	39	-	-	Full	76.8	9.00	7.66	-0.02	0.005	1.302	1.361	**0.01**

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

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	RB#	RB Offset	Power Reduction	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled SAR-1g (W/kg)
	GSM850	GPRS 3Tx Slot	Front Face	1	128	-	-	Full	-	29.00	27.44	-0.10	0.536	1.000	1.432	0.77
P20	GSM850	GPRS 3Tx Slot	Rear Face	1	128	-	-	Full	-	29.00	27.44	0.03	0.550	1.000	1.432	**0.79**
	GSM850	GPRS 3Tx Slot	Left Side	1	128	-	-	Full	-	29.00	27.44	0.12	0.297	1.000	1.432	0.43
	GSM850	GPRS 3Tx Slot	Right Side	1	128	-	-	Full	-	29.00	27.44	-0.15	0.395	1.000	1.432	0.57
	GSM850	GPRS 3Tx Slot	Bottom Side	1	128	-	-	Full	-	29.00	27.44	0.14	0.394	1.000	1.432	0.56
	GSM850	GPRS 3Tx Slot	Rear Face	1	189	-	-	Full		29.00	27.33	0.02	0.520	1.000	1.469	0.76
	GSM850	GPRS 3Tx Slot	Rear Face	1	251	-	-	Full	-	29.00	27.26	-0.02	0.390	1.000	1.493	0.58
	GSM1900	GPRS 4Tx Slot	Front Face	1	512	-	-	Full	-	26.00	25.31	0.02	0.283	1.000	1.172	0.33
	GSM1900	GPRS 4Tx Slot	Rear Face	1	512	-	-	Full	-	26.00	25.31	-0.04	0.233	1.000	1.172	0.27
	GSM1900	GPRS 4Tx Slot	Left Side	1	512	-	-	Full	-	26.00	25.31	0.16	0.163	1.000	1.172	0.19
	GSM1900	GPRS 4Tx Slot	Right Side	1	512	-	-	Full	-	26.00	25.31	-0.10	0.044	1.000	1.172	0.05
	GSM1900	GPRS 4Tx Slot	Bottom Side	1	512	-	-	Full	-	26.00	25.31	-0.11	0.170	1.000	1.172	0.20
P21	GSM1900	GPRS 4Tx Slot	Front Face	1	661	-	-	Full	-	26.00	25.11	0.13	0.367	1.000	1.227	**0.45**
	GSM1900	GPRS 4Tx Slot	Front Face	1	810	-	-	Full	-	26.00	25.14	0.04	0.365	1.000	1.219	0.44
	CDMA BC0	RTAP 153.6Kbps	Front Face	1	384	-	-	Full	-	24.00	23.26	-0.07	0.308	1.000	1.186	0.37
	CDMA BC0	RTAP 153.6Kbps	Rear Face	1	384	-	-	Full	-	24.00	23.26	0.03	0.296	1.000	1.186	0.35
	CDMA BC0	RTAP 153.6Kbps	Left Side	1	384	-	-	Full	-	24.00	23.26	0.15	0.165	1.000	1.186	0.20
	CDMA BC0	RTAP 153.6Kbps	Right Side	1	384	-	-	Full	-	24.00	23.26	0.07	0.245	1.000	1.186	0.29
	CDMA BC0	RTAP 153.6Kbps	Bottom Side	1	384	-	-	Full	-	24.00	23.26	0.15	0.209	1.000	1.186	0.25
	CDMA BC0	RTAP 153.6Kbps	Front Face	1	1013	-	-	Full	-	24.00	23.22	0.04	0.271	1.000	1.197	0.32
P22	CDMA BC0	RTAP 153.6Kbps	Front Face	1	777	-	-	Full	-	24.00	23.11	-0.01	0.344	1.000	1.227	**0.42**
	CDMA BC1	RTAP 153.6Kbps	Front Face	1	25	-	-	Full	-	24.00	22.81	0.11	0.611	1.000	1.315	0.80
	CDMA BC1	RTAP 153.6Kbps	Rear Face	1	25	-	-	Full	-	24.00	22.81	0.02	0.470	1.000	1.315	0.62
	CDMA BC1	RTAP 153.6Kbps	Left Side	1	25	-	-	Full	-	24.00	22.81	-0.06	0.410	1.000	1.315	0.54
	CDMA BC1	RTAP 153.6Kbps	Right Side	1	25	-	-	Full	-	24.00	22.81	-0.01	0.115	1.000	1.315	0.15
	CDMA BC1	RTAP 153.6Kbps	Bottom Side	1	25	-	-	Full	-	24.00	22.81	0.12	0.413	1.000	1.315	0.54
P23	CDMA BC1	RTAP 153.6Kbps	Front Face	1	600	-	-	Full	-	24.00	22.60	0.16	0.698	1.000	1.380	**0.96**
	CDMA BC1	RTAP 153.6Kbps	Front Face	1	1175	-	-	Full	-	24.00	22.65	-0.07	0.684	1.000	1.365	0.93
P24	WCDMA II	RMC12.2K	Front Face	1	9538	-	-	Full	-	24.00	23.17	0.03	0.635	1.000	1.211	**0.77**
	WCDMA II	RMC12.2K	Rear Face	1	9538	-	-	Full	-	24.00	23.17	-0.04	0.488	1.000	1.211	0.59
	WCDMA II	RMC12.2K	Left Side	1	9538	-	-	Full	-	24.00	23.17	0.05	0.299	1.000	1.211	0.36
	WCDMA II	RMC12.2K	Right Side	1	9538	-	-	Full	-	24.00	23.17	0.01	0.148	1.000	1.211	0.18

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	RB#	RB Offset	Power Reduction	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled SAR-1g (W/kg)
	WCDMA II	RMC12.2K	Bottom Side	1	9538	-	-	Full	-	24.00	23.17	-0.03	0.553	1.000	1.211	0.67
	WCDMA II	RMC12.2K	Front Face	1	9262	-	-	Full	-	24.00	23.13	-0.10	0.417	1.000	1.222	0.51
	WCDMA II	RMC12.2K	Front Face	1	9400	-	-	Full	-	24.00	23.05	0.03	0.495	1.000	1.245	0.62
	WCDMA IV	RMC12.2K	Front Face	1	1413	-	-	Full	-	24.00	22.94	0.04	0.422	1.000	1.276	0.54
	WCDMA IV	RMC12.2K	Rear Face	1	1413	-	-	Full	-	24.00	22.94	0.16	0.363	1.000	1.276	0.46
	WCDMA IV	RMC12.2K	Left Side	1	1413	-	-	Full	-	24.00	22.94	-0.12	0.381	1.000	1.276	0.49
	WCDMA IV	RMC12.2K	Right Side	1	1413	-	-	Full	-	24.00	22.94	-0.01	0.129	1.000	1.276	0.16
	WCDMA IV	RMC12.2K	Bottom Side	1	1413	-	-	Full	-	24.00	22.94	0.12	0.240	1.000	1.276	0.31
	WCDMA IV	RMC12.2K	Front Face	1	1312	-	-	Full	-	24.00	22.83	0.04	0.293	1.000	1.309	0.38
P25	WCDMA IV	RMC12.2K	Front Face	1	1513	-	-	Full	-	24.00	22.76	0.18	0.435	1.000	1.330	**0.58**
	WCDMA V	RMC12.2K	Front Face	1	4233	-	-	Full	-	24.00	23.15	-0.02	0.276	1.000	1.216	0.34
P26	WCDMA V	RMC12.2K	Rear Face	1	4233	-	-	Full	-	24.00	23.15	-0.06	0.291	1.000	1.216	**0.35**
	WCDMA V	RMC12.2K	Left Side	1	4233	-	-	Full	-	24.00	23.15	-0.14	0.120	1.000	1.216	0.15
	WCDMA V	RMC12.2K	Right Side	1	4233	-	-	Full	-	24.00	23.15	0.06	0.152	1.000	1.216	0.18
	WCDMA V	RMC12.2K	Bottom Side	1	4233	-	-	Full	-	24.00	23.15	0.15	0.228	1.000	1.216	0.28
	WCDMA V	RMC12.2K	Rear Face	1	4132	-	-	Full	-	24.00	23.07	-0.04	0.213	1.000	1.239	0.26
	WCDMA V	RMC12.2K	Rear Face	1	4182	-	-	Full	-	24.00	23.11	0.18	0.245	1.000	1.227	0.30
	LTE 2	QPSK20M	Front Face	1	18900	1	50	Full	-	23.50	22.76	0.17	0.570	1.000	1.186	0.68
	LTE 2	QPSK20M	Rear Face	1	18900	1	50	Full	-	23.50	22.76	0.00	0.423	1.000	1.186	0.50
	LTE 2	QPSK20M	Left Side	1	18900	1	50	Full	-	23.50	22.76	-0.14	0.291	1.000	1.186	0.35
	LTE 2	QPSK20M	Right Side	1	18900	1	50	Full	-	23.50	22.76	-0.02	0.098	1.000	1.186	0.12
	LTE 2	QPSK20M	Bottom Side	1	18900	1	50	Full	-	23.50	22.76	-0.16	0.351	1.000	1.186	0.42
	LTE 2	QPSK20M	Front Face	1	18900	50	25	Full	-	22.50	21.86	-0.04	0.454	1.000	1.159	0.53
	LTE 2	QPSK20M	Rear Face	1	18900	50	25	Full	-	22.50	21.86	0.04	0.344	1.000	1.159	0.40
	LTE 2	QPSK20M	Left Side	1	18900	50	25	Full	-	22.50	21.86	-0.05	0.247	1.000	1.159	0.29
	LTE 2	QPSK20M	Right Side	1	18900	50	25	Full	-	22.50	21.86	-0.13	0.076	1.000	1.159	0.09
	LTE 2	QPSK20M	Bottom Side	1	18900	50	25	Full	-	22.50	21.86	-0.13	0.279	1.000	1.159	0.32
	LTE 2	QPSK20M	Front Face	1	18700	1	50	Full	-	23.50	22.60	-0.13	0.486	1.000	1.230	0.60
P27	LTE 2	QPSK20M	Front Face	1	19100	1	50	Full	-	23.50	22.73	0.07	0.610	1.000	1.194	**0.73**
	LTE 5	QPSK10M	Front Face	1	20450	1	24	Full	-	23.50	23.18	-0.05	0.235	1.000	1.076	0.25
	LTE 5	QPSK10M	Rear Face	1	20450	1	24	Full	-	23.50	23.18	0.19	0.251	1.000	1.076	0.27
	LTE 5	QPSK10M	Left Side	1	20450	1	24	Full	-	23.50	23.18	-0.08	0.096	1.000	1.076	0.10
	LTE 5	QPSK10M	Right Side	1	20450	1	24	Full	-	23.50	23.18	0.15	0.137	1.000	1.076	0.15
	LTE 5	QPSK10M	Bottom Side	1	20450	1	24	Full	-	23.50	23.18	-0.14	0.195	1.000	1.076	0.21
	LTE 5	QPSK10M	Front Face	1	20450	25	12	Full	-	22.50	22.01	-0.03	0.167	1.000	1.119	0.19
	LTE 5	QPSK10M	Rear Face	1	20450	25	12	Full	-	22.50	22.01	-0.10	0.180	1.000	1.119	0.20
	LTE 5	QPSK10M	Left Side	1	20450	25	12	Full	-	22.50	22.01	-0.01	0.071	1.000	1.119	0.08
	LTE 5	QPSK10M	Right Side	1	20450	25	12	Full	-	22.50	22.01	-0.02	0.100	1.000	1.119	0.11
	LTE 5	QPSK10M	Bottom Side	1	20450	25	12	Full	-	22.50	22.01	0.17	0.145	1.000	1.119	0.16
	LTE 5	QPSK10M	Rear Face	1	20525	1	24	Full	-	23.50	23.04	-0.01	0.284	1.000	1.112	0.32
P28	LTE 5	QPSK10M	Rear Face	1	20600	1	24	Full	-	23.50	23.13	0.15	0.303	1.000	1.089	**0.33**
	LTE 7	QPSK20M	Front Face	1	21350	1	50	Reduce	-	20.50	20.12	0.08	0.528	1.000	1.091	0.58
	LTE 7	QPSK20M	Rear Face	1	21350	1	50	Reduce	-	20.50	20.12	-0.10	0.546	1.000	1.091	0.60
	LTE 7	QPSK20M	Left Side	1	21350	1	50	Reduce	-	20.50	20.12	-0.03	0.248	1.000	1.091	0.27
	LTE 7	QPSK20M	Right Side	1	21350	1	50	Reduce	-	20.50	20.12	0.02	0.023	1.000	1.091	0.03
	LTE 7	QPSK20M	Bottom Side	1	21350	1	50	Reduce	-	20.50	20.12	-0.04	0.966	1.000	1.091	1.05
	LTE 7	QPSK20M	Front Face	1	21350	50	25	Reduce	-	20.50	20.04	0.19	0.522	1.000	1.112	0.58
	LTE 7	QPSK20M	Rear Face	1	21350	50	25	Reduce	-	20.50	20.04	-0.18	0.544	1.000	1.112	0.60
	LTE 7	QPSK20M	Left Side	1	21350	50	25	Reduce	-	20.50	20.04	0.07	0.228	1.000	1.112	0.25
	LTE 7	QPSK20M	Right Side	1	21350	50	25	Reduce	-	20.50	20.04	0.11	0.021	1.000	1.112	0.02
	LTE 7	QPSK20M	Bottom Side	1	21350	50	25	Reduce	-	20.50	20.04	-0.11	0.988	1.000	1.112	1.10
	LTE 7	QPSK20M	Bottom Side	1	20850	1	50	Reduce	-	20.50	19.82	0.01	0.944	1.000	1.169	1.10
P29	LTE 7	QPSK20M	Bottom Side	1	21100	1	50	Reduce	-	20.50	19.83	-0.18	0.956	1.000	1.167	**1.12**
	LTE 7	QPSK20M	Bottom Side	1	20850	50	25	Reduce	-	20.50	19.81	-0.19	0.912	1.000	1.172	1.07
	LTE 7	QPSK20M	Bottom Side	1	21100	50	25	Reduce	-	20.50	19.78	0.11	0.933	1.000	1.180	1.10
	LTE 7	QPSK20M	Bottom Side	1	21350	100	0	Reduce	-	20.50	19.98	0.05	0.968	1.000	1.127	1.09
	LTE 7C	QPSK20M	Bottom Side	1	PCC:21001 SCC:21199	PCC:1 SCC:1	PCC:99 SCC:0	Reduce	-	20.50	20.07	-0.10	0.922	1.000	1.104	1.02
P30	LTE 12/17	QPSK10M	Front Face	1	23060	1	0	Full	-	23.50	23.19	0.15	0.164	1.000	1.074	**0.18**
	LTE 12/17	QPSK10M	Rear Face	1	23060	1	0	Full	-	23.50	23.19	0.14	0.137	1.000	1.074	0.15
	LTE 12/17	QPSK10M	Left Side	1	23060	1	0	Full	-	23.50	23.19	0.18	0.130	1.000	1.074	0.14
	LTE 12/17	QPSK10M	Right Side	1	23060	1	0	Full	-	23.50	23.19	-0.04	0.134	1.000	1.074	0.14
	LTE 12/17	QPSK10M	Bottom Side	1	23060	1	0	Full	-	23.50	23.19	0.03	0.089	1.000	1.074	0.10
	LTE 12/17	QPSK10M	Front Face	1	23060	25	0	Full	-	22.50	21.97	-0.01	0.121	1.000	1.130	0.14
	LTE 12/17	QPSK10M	Rear Face	1	23060	25	0	Full	-	22.50	21.97	-0.06	0.103	1.000	1.130	0.12
	LTE 12/17	QPSK10M	Left Side	1	23060	25	0	Full	-	22.50	21.97	0.18	0.093	1.000	1.130	0.11
	LTE 12/17	QPSK10M	Right Side	1	23060	25	0	Full	-	22.50	21.97	-0.18	0.094	1.000	1.130	0.11

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	RB#	RB Offset	Power Reduction	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled SAR-1g (W/kg)
	LTE 12/17	QPSK10M	Bottom Side	1	23060	25	0	Full	-	22.50	21.97	0.18	0.064	1.000	1.130	0.07
	LTE 12/17	QPSK10M	Front Face	1	23095	1	0	Full	-	23.50	23.12	-0.02	0.158	1.000	1.091	0.17
	LTE 12/17	QPSK10M	Front Face	1	23130	1	0	Full	-	23.50	23.15	0.01	0.157	1.000	1.084	0.17
P31	LTE 13	QPSK10M	Front Face	1	23230	1	0	Full	-	23.50	23.24	-0.06	0.177	1.000	1.062	**0.19**
	LTE 13	QPSK10M	Rear Face	1	23230	1	0	Full	-	23.50	23.24	0.13	0.154	1.000	1.062	0.16
	LTE 13	QPSK10M	Left Side	1	23230	1	0	Full	-	23.50	23.24	-0.19	0.114	1.000	1.062	0.12
	LTE 13	QPSK10M	Right Side	1	23230	1	0	Full	-	23.50	23.24	-0.08	0.121	1.000	1.062	0.13
	LTE 13	QPSK10M	Bottom Side	1	23230	1	0	Full	-	23.50	23.24	-0.18	0.115	1.000	1.062	0.12
	LTE 13	QPSK10M	Front Face	1	23230	25	0	Full	-	22.50	22.25	0.13	0.135	1.000	1.059	0.14
	LTE 13	QPSK10M	Rear Face	1	23230	25	0	Full	-	22.50	22.25	0.03	0.117	1.000	1.059	0.12
	LTE 13	QPSK10M	Left Side	1	23230	25	0	Full	-	22.50	22.25	-0.16	0.085	1.000	1.059	0.09
	LTE 13	QPSK10M	Right Side	1	23230	25	0	Full	-	22.50	22.25	-0.04	0.089	1.000	1.059	0.09
	LTE 13	QPSK10M	Bottom Side	1	23230	25	0	Full	-	22.50	22.25	-0.14	0.096	1.000	1.059	0.10
P32	LTE 14	QPSK10M	Front Face	1	23330	1	0	Full	-	23.50	23.26	-0.10	0.202	1.000	1.057	**0.21**
	LTE 14	QPSK10M	Rear Face	1	23330	1	0	Full	-	23.50	23.26	0.04	0.164	1.000	1.057	0.17
	LTE 14	QPSK10M	Left Side	1	23330	1	0	Full	-	23.50	23.26	-0.17	0.111	1.000	1.057	0.12
	LTE 14	QPSK10M	Right Side	1	23330	1	0	Full	-	23.50	23.26	0.16	0.125	1.000	1.057	0.13
	LTE 14	QPSK10M	Bottom Side	1	23330	1	0	Full	-	23.50	23.26	0.13	0.145	1.000	1.057	0.15
	LTE 14	QPSK10M	Front Face	1	23330	25	0	Full	-	22.50	22.08	0.00	0.152	1.000	1.102	0.17
	LTE 14	QPSK10M	Rear Face	1	23330	25	0	Full	-	22.50	22.08	0.05	0.123	1.000	1.102	0.14
	LTE 14	QPSK10M	Left Side	1	23330	25	0	Full	-	22.50	22.08	-0.11	0.080	1.000	1.102	0.09
	LTE 14	QPSK10M	Right Side	1	23330	25	0	Full	-	22.50	22.08	-0.13	0.085	1.000	1.102	0.09
	LTE 14	QPSK10M	Bottom Side	1	23330	25	0	Full	-	22.50	22.08	0.11	0.101	1.000	1.102	0.11
	LTE 41/38	QPSK20M	Front Face	1	41490	1	50	Reduce	62.9	19.50	19.31	0.17	0.339	1.006	1.045	0.36
	LTE 41/38	QPSK20M	Rear Face	1	41490	1	50	Reduce	62.9	19.50	19.31	0.01	0.391	1.006	1.045	0.41
	LTE 41/38	QPSK20M	Left Side	1	41490	1	50	Reduce	62.9	19.50	19.31	-0.04	0.207	1.006	1.045	0.22
	LTE 41/38	QPSK20M	Right Side	1	41490	1	50	Reduce	62.9	19.50	19.31	-	0.000	1.006	1.045	0.00
P33	LTE 41/38	QPSK20M	Bottom Side	1	41490	1	50	Reduce	62.9	19.50	19.31	-0.16	0.886	1.006	1.045	**0.93**
	LTE 41/38	QPSK20M	Front Face	1	41490	50	25	Reduce	62.9	19.50	19.28	-0.11	0.278	1.006	1.052	0.29
	LTE 41/38	QPSK20M	Rear Face	1	41490	50	25	Reduce	62.9	19.50	19.28	-0.17	0.317	1.006	1.052	0.34
	LTE 41/38	QPSK20M	Left Side	1	41490	50	25	Reduce	62.9	19.50	19.28	0.11	0.156	1.006	1.052	0.17
	LTE 41/38	QPSK20M	Right Side	1	41490	50	25	Reduce	62.9	19.50	19.28	-	0.000	1.006	1.052	0.00
	LTE 41/38	QPSK20M	Bottom Side	1	41490	50	25	Reduce	62.9	19.50	19.28	-0.10	0.778	1.006	1.052	0.82
	LTE 41/38	QPSK20M	Bottom Side	1	39750	1	50	Reduce	62.9	19.50	19.08	0.01	0.539	1.006	1.102	0.60
	LTE 41/38	QPSK20M	Bottom Side	1	39790	1	50	Reduce	62.9	19.50	19.04	0.02	0.554	1.006	1.112	0.62
	LTE 41/38	QPSK20M	Bottom Side	1	40185	1	50	Reduce	62.9	19.50	19.18	0.01	0.662	1.006	1.076	0.72
	LTE 41/38	QPSK20M	Bottom Side	1	40620	1	50	Reduce	62.9	19.50	19.20	0.01	0.757	1.006	1.072	0.82
	LTE 41/38	QPSK20M	Bottom Side	1	41055	1	50	Reduce	62.9	19.50	19.30	-0.06	0.880	1.006	1.047	0.93
	LTE 41/38	QPSK20M	Bottom Side	1	39750	50	25	Reduce	62.9	19.50	18.93	-0.07	0.539	1.006	1.140	0.62
	LTE 41/38	QPSK20M	Bottom Side	1	39790	50	25	Reduce	62.9	19.50	19.11	-0.10	0.522	1.006	1.094	0.57
	LTE 41/38	QPSK20M	Bottom Side	1	40185	50	25	Reduce	62.9	19.50	19.17	-0.01	0.637	1.006	1.079	0.69
	LTE 41/38	QPSK20M	Bottom Side	1	40620	50	25	Reduce	62.9	19.50	19.15	0.14	0.702	1.006	1.084	0.77
	LTE 41/38	QPSK20M	Bottom Side	1	41055	50	25	Reduce	62.9	19.50	19.26	0.01	0.836	1.006	1.057	0.89
	LTE 41/38	QPSK20M	Bottom Side	1	41490	100	0	Reduce	62.9	19.50	19.06	-0.15	0.739	1.006	1.107	0.82
	LTE 41C	QPSK20M	Bottom Side	1	PCC:40521 SCC:40719	PCC:1 SCC:1	PCC:99 SCC:0	Reduce	62.9	19.50	18.68	-0.14	0.738	1.006	1.208	0.90
	LTE 66 /4	QPSK20M	Front Face	1	132322	1	99	Full	-	23.50	23.12	-0.15	0.438	1.000	1.091	0.48
	LTE 66 /4	QPSK20M	Rear Face	1	132322	1	99	Full	-	23.50	23.12	-0.15	0.292	1.000	1.091	0.32
	LTE 66 /4	QPSK20M	Left Side	1	132322	1	99	Full	-	23.50	23.12	-0.02	0.342	1.000	1.091	0.37
	LTE 66 /4	QPSK20M	Right Side	1	132322	1	99	Full	-	23.50	23.12	0.04	0.095	1.000	1.091	0.10
	LTE 66 /4	QPSK20M	Bottom Side	1	132322	1	99	Full	-	23.50	23.12	0.04	0.237	1.000	1.091	0.26
	LTE 66 /4	QPSK20M	Front Face	1	132322	50	25	Full	-	22.50	21.80	-0.12	0.318	1.000	1.175	0.37
	LTE 66 /4	QPSK20M	Rear Face	1	132322	50	25	Full	-	22.50	21.80	-0.07	0.233	1.000	1.175	0.27
	LTE 66 /4	QPSK20M	Left Side	1	132322	50	25	Full	-	22.50	21.80	0.12	0.265	1.000	1.175	0.31
	LTE 66 /4	QPSK20M	Right Side	1	132322	50	25	Full	-	22.50	21.80	-0.05	0.082	1.000	1.175	0.10
	LTE 66 /4	QPSK20M	Bottom Side	1	132322	50	25	Full	-	22.50	21.80	0.18	0.190	1.000	1.175	0.22
P34	LTE 66 /4	QPSK20M	Front Face	1	132072	1	99	Full	-	23.50	23.09	0.01	0.439	1.000	1.099	**0.48**
	LTE 66 /4	QPSK20M	Front Face	1	132572	1	99	Full	-	23.50	23.02	-0.04	0.370	1.000	1.117	0.41
	WLAN2.4G	802.11b	Front Face	1	1	-	-	Full	98.51	18.50	18.17	0.13	0.183	1.015	1.079	0.20
	WLAN2.4G	802.11b	Rear Face	1	1	-	-	Full	98.51	18.50	18.17	-0.10	0.172	1.015	1.079	0.19
	WLAN2.4G	802.11b	Left Side	1	1	-	-	Full	98.51	18.50	18.17	0.16	0.213	1.015	1.079	0.23
	WLAN2.4G	802.11b	Right Side	1	1	-	-	Full	98.51	18.50	18.17	-	0.000	1.015	1.079	0.00
	WLAN2.4G	802.11b	Top Side	1	1	-	-	Full	98.51	18.50	18.17	0.05	0.109	1.015	1.079	0.12
	WLAN2.4G	802.11b	Left Side	1	6	-	-	Full	98.51	18.50	17.58	0.07	0.181	1.015	1.236	0.23
P35	WLAN2.4G	802.11b	Left Side	1	11	-	-	Full	98.51	18.50	17.29	0.07	0.195	1.015	1.321	**0.26**
	WLAN5G	802.11a	Front Face	1	48			Full	98.39	15.00	14.71	0.01	0.108	1.016	1.069	0.12
	WLAN5G	802.11a	Rear Face	1	48			Full	98.39	15.00	14.71	0.00	0.203	1.016	1.069	0.22

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	RB#	RB Offset	Power Reduction	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled SAR-1g (W/kg)
	WLAN5G	802.11a	Left Side	1	48			Full	98.39	15.00	14.71	0.14	0.297	1.016	1.069	0.32
	WLAN5G	802.11a	Right Side	1	48			Full	98.39	15.00	14.71	-0.16	0.085	1.016	1.069	0.09
	WLAN5G	802.11a	Top Side	1	48			Full	98.39	15.00	14.71	0.04	0.256	1.016	1.069	0.28
P36	WLAN5G	802.11a	Left Side	1	36			Full	98.39	15.00	13.02	-0.09	0.302	1.016	1.578	**0.48**
	WLAN5G	802.11a	Left Side	1	40			Full	98.39	15.00	13.16	0.12	0.300	1.016	1.528	0.47
	WLAN5G	802.11a	Left Side	1	44			Full	98.39	15.00	13.57	0.15	0.300	1.016	1.390	0.42
	WLAN5G	802.11a	Front Face	1	149	-	-	Full	98.39	15.00	14.86	0.15	0.096	1.016	1.033	0.10
	WLAN5G	802.11a	Rear Face	1	149	-	-	Full	98.39	15.00	14.86	0.10	0.402	1.016	1.033	0.42
	WLAN5G	802.11a	Left Side	1	149	-	-	Full	98.39	15.00	14.86	-0.05	0.160	1.016	1.033	0.17
	WLAN5G	802.11a	Right Side	1	149	-	-	Full	98.39	15.00	14.86	0.15	0.047	1.016	1.033	0.05
	WLAN5G	802.11a	Top Side	1	149	-	-	Full	98.39	15.00	14.86	0.10	0.141	1.016	1.033	0.15
P37	WLAN5G	802.11a	Rear Face	1	157	-	-	Full	98.39	15.00	13.28	-0.02	0.485	1.016	1.486	**0.73**
	WLAN5G	802.11a	Rear Face	1	165	-	-	Full	98.39	15.00	14.51	-0.04	0.534	1.016	1.119	0.61
	BT	GFSK	Front Face	1	78	-	-	Full	76.8	9.00	8.60	-0.06	0.018	1.302	1.096	0.03
	BT	GFSK	Rear Face	1	78	-	-	Full	76.8	9.00	8.60	0.03	0.014	1.302	1.096	0.02
	BT	GFSK	Left Side	1	78	-	-	Full	76.8	9.00	8.60	0.04	0.020	1.302	1.096	0.03
	BT	GFSK	Right Side	1	78	-	-	Full	76.8	9.00	8.60	-	0.000	1.302	1.096	0.00
	BT	GFSK	Top Side	1	78	-	-	Full	76.8	9.00	8.60	-0.18	0.013	1.302	1.096	0.02
	BT	GFSK	Left Side	1	0	-	-	Full	76.8	9.00	8.16	-0.05	0.020	1.302	1.213	0.03
P38	BT	GFSK	Left Side	1	39	-	-	Full	76.8	9.00	7.66	-0.10	0.025	1.302	1.361	**0.04**

4.6.4 SAR Results for Body Worn Exposure Condition (Separation Distance is 1.0 cm Gap)

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	RB#	RB Offset	Power Reduction	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled SAR-1g (W/kg)
	GSM850	GPRS 3Tx Slot	Front Face	1	128	-	-	Full	-	29.00	27.44	-0.10	0.536	1.000	1.432	0.77
P39	GSM850	GPRS 3Tx Slot	Rear Face	1	128	-	-	Full	-	29.00	27.44	0.03	0.550	1.000	1.432	**0.79**
	GSM850	GPRS 3Tx Slot	Rear Face	1	189	-	-	Full	-	29.00	27.33	0.02	0.520	1.000	1.469	0.76
	GSM850	GPRS 3Tx Slot	Rear Face	1	251	-	-	Full	-	29.00	27.26	-0.02	0.390	1.000	1.493	0.58
	GSM1900	GPRS 4Tx Slot	Front Face	1	512	-	-	Full	-	26.00	25.31	0.02	0.283	1.000	1.172	0.33
	GSM1900	GPRS 4Tx Slot	Rear Face	1	512	-	-	Full	-	26.00	25.31	-0.04	0.233	1.000	1.172	0.27
P40	GSM1900	GPRS 4Tx Slot	Front Face	1	661	-	-	Full	-	26.00	25.11	0.13	0.367	1.000	1.227	**0.45**
	GSM1900	GPRS 4Tx Slot	Front Face	1	810	-	-	Full	-	26.00	25.14	0.04	0.365	1.000	1.219	0.44
	CDMA BC0	RC3 SO32 (F+SCH)	Front Face	1	384	-	-	Full	-	24.00	23.30	-0.15	0.270	1.000	1.175	0.32
	CDMA BC0	RC3 SO32 (F+SCH)	Rear Face	1	384	-	-	Full	-	24.00	23.30	0.12	0.262	1.000	1.175	0.31
	CDMA BC0	RC3 SO32 (F+SCH)	Front Face	1	1013	-	-	Full	-	24.00	23.25	0.09	0.241	1.000	1.189	0.29
P41	CDMA BC0	RC3 SO32 (F+SCH)	Front Face	1	777	-	-	Full	-	24.00	23.15	0.07	0.300	1.000	1.216	**0.36**
	CDMA BC1	RC3 SO32 (F+SCH)	Front Face	1	25	-	-	Full	-	24.00	22.84	0.10	0.595	1.000	1.306	0.78
	CDMA BC1	RC3 SO32 (F+SCH)	Rear Face	1	25	-	-	Full	-	24.00	22.84	0.07	0.463	1.000	1.306	0.60
P42	CDMA BC1	RC3 SO32 (F+SCH)	Front Face	1	600	-	-	Full	-	24.00	22.62	0.03	0.682	1.000	1.374	**0.94**
	CDMA BC1	RC3 SO32 (F+SCH)	Front Face	1	1175	-	-	Full	-	24.00	22.66	-0.02	0.672	1.000	1.361	0.91
P43	WCDMA II	RMC12.2K	Front Face	1	9538	-	-	Full	-	24.00	23.17	0.03	0.635	1.000	1.211	**0.77**
	WCDMA II	RMC12.2K	Rear Face	1	9538	-	-	Full	-	24.00	23.17	-0.04	0.488	1.000	1.211	0.59
	WCDMA II	RMC12.2K	Front Face	1	9262	-	-	Full	-	24.00	23.13	-0.10	0.417	1.000	1.222	0.51
	WCDMA II	RMC12.2K	Front Face	1	9400	-	-	Full	-	24.00	23.05	0.03	0.495	1.000	1.245	0.62
	WCDMA IV	RMC12.2K	Front Face	1	1413	-	-	Full	-	24.00	22.94	0.04	0.422	1.000	1.276	0.54
	WCDMA IV	RMC12.2K	Rear Face	1	1413	-	-	Full	-	24.00	22.94	0.16	0.363	1.000	1.276	0.46
	WCDMA IV	RMC12.2K	Front Face	1	1312	-	-	Full	-	24.00	22.83	0.04	0.293	1.000	1.309	0.38
P44	WCDMA IV	RMC12.2K	Front Face	1	1513	-	-	Full	-	24.00	22.76	0.18	0.435	1.000	1.330	**0.58**
	WCDMA V	RMC12.2K	Front Face	1	4233	-	-	Full	-	24.00	23.15	-0.02	0.276	1.000	1.216	0.34
P45	WCDMA V	RMC12.2K	Rear Face	1	4233	-	-	Full	-	24.00	23.15	-0.06	0.291	1.000	1.216	**0.35**
	WCDMA V	RMC12.2K	Rear Face	1	4132	-	-	Full	-	24.00	23.07	-0.04	0.213	1.000	1.239	0.26
	WCDMA V	RMC12.2K	Rear Face	1	4182	-	-	Full	-	24.00	23.11	0.18	0.245	1.000	1.227	0.30
	LTE 2	QPSK20M	Front Face	1	18900	1	50	Full	-	23.50	22.76	0.17	0.570	1.000	1.186	0.68
	LTE 2	QPSK20M	Rear Face	1	18900	1	50	Full	-	23.50	22.76	0.00	0.423	1.000	1.186	0.50
	LTE 2	QPSK20M	Front Face	1	18900	50	25	Full	-	22.50	21.86	-0.04	0.454	1.000	1.159	0.53
	LTE 2	QPSK20M	Rear Face	1	18900	50	25	Full	-	22.50	21.86	0.04	0.344	1.000	1.159	0.40
	LTE 2	QPSK20M	Front Face	1	18700	1	50	Full	-	23.50	22.60	-0.13	0.486	1.000	1.230	0.60
P46	LTE 2	QPSK20M	Front Face	1	19100	1	50	Full	-	23.50	22.73	0.07	0.610	1.000	1.194	**0.73**

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	RB#	RB Offset	Power Reduction	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled SAR-1g (W/kg)
	LTE 5	QPSK10M	Front Face	1	20450	1	24	Full	-	23.50	23.18	-0.05	0.235	1.000	1.076	0.25
	LTE 5	QPSK10M	Rear Face	1	20450	1	24	Full	-	23.50	23.18	0.19	0.251	1.000	1.076	0.27
	LTE 5	QPSK10M	Front Face	1	20450	25	12	Full	-	22.50	22.01	-0.03	0.167	1.000	1.119	0.19
	LTE 5	QPSK10M	Rear Face	1	20450	25	12	Full	-	22.50	22.01	-0.10	0.180	1.000	1.119	0.20
	LTE 5	QPSK10M	Rear Face	1	20525	1	24	Full	-	23.50	23.04	-0.01	0.284	1.000	1.112	0.32
P47	LTE 5	QPSK10M	Rear Face	1	20600	1	24	Full	-	23.50	23.13	0.15	0.303	1.000	1.089	**0.33**
	LTE 7	QPSK20M	Front Face	1	21350	1	50	Full	-	23.50	23.14	0.08	1.180	1.000	1.086	1.28
	LTE 7	QPSK20M	Rear Face	1	21350	1	50	Full	-	23.50	23.14	-0.10	1.190	1.000	1.086	1.29
	LTE 7	QPSK20M	Front Face	1	21350	50	25	Full	-	22.50	22.31	0.19	1.080	1.000	1.045	1.13
	LTE 7	QPSK20M	Rear Face	1	21350	50	25	Full	-	22.50	22.31	-0.18	1.100	1.000	1.045	1.15
	LTE 7	QPSK20M	Front Face	1	20850	1	50	Full	-	23.50	22.90	0.05	1.020	1.000	1.148	1.17
	LTE 7	QPSK20M	Front Face	1	21100	1	50	Full	-	23.50	22.93	-0.10	1.130	1.000	1.140	1.29
	LTE 7	QPSK20M	Rear Face	1	20850	1	50	Full	-	23.50	22.90	0.01	1.050	1.000	1.148	1.21
P48	LTE 7	QPSK20M	Rear Face	1	21100	1	50	Full	-	23.50	22.93	-0.18	1.160	1.000	1.140	**1.32**
	LTE 7	QPSK20M	Front Face	1	20850	50	25	Full	-	22.50	21.89	0.05	0.902	1.000	1.151	1.04
	LTE 7	QPSK20M	Front Face	1	21100	50	25	Full	-	22.50	22.11	-0.15	1.040	1.000	1.094	1.14
	LTE 7	QPSK20M	Rear Face	1	20850	50	25	Full	-	22.50	21.89	-0.10	0.932	1.000	1.151	1.07
	LTE 7	QPSK20M	Rear Face	1	21100	50	25	Full	-	22.50	22.11	0.10	1.070	1.000	1.094	1.17
	LTE 7	QPSK20M	Front Face	1	21350	100	0	Full	-	22.50	22.19	0.14	0.863	1.000	1.074	0.93
	LTE 7	QPSK20M	Rear Face	1	21350	100	0	Full	-	22.50	22.19	-0.19	0.885	1.000	1.074	0.95
	LTE 7C	QPSK20M	Rear Face	1	PCC:21001 SCC:21199	PCC:1 SCC:1	PCC:99 SCC:0	Full	-	23.00	22.66	-0.06	1.110	1.000	1.081	1.20
	LTE 7	QPSK20M	Front Face with earphone	1	21100	1	50	Full	-	23.50	22.93	-0.11	1.080	1.000	1.140	1.23
	LTE 7	QPSK20M	Rear Face with earphone	1	21100	1	50	Full	-	23.50	22.93	0.09	1.110	1.000	1.140	1.27
P49	LTE 12/17	QPSK10M	Front Face	1	23060	1	0	Full	-	23.50	23.19	0.15	0.164	1.000	1.074	**0.18**
	LTE 12/17	QPSK10M	Rear Face	1	23060	1	0	Full	-	23.50	23.19	0.14	0.137	1.000	1.074	0.15
	LTE 12/17	QPSK10M	Front Face	1	23060	25	0	Full	-	22.50	21.97	-0.01	0.121	1.000	1.130	0.14
	LTE 12/17	QPSK10M	Rear Face	1	23060	25	0	Full	-	22.50	21.97	-0.06	0.103	1.000	1.130	0.12
	LTE 12/17	QPSK10M	Front Face	1	23095	1	0	Full	-	23.50	23.12	-0.02	0.158	1.000	1.091	0.17
	LTE 12/17	QPSK10M	Front Face	1	23130	1	0	Full	-	23.50	23.15	0.01	0.157	1.000	1.084	0.17
P50	LTE 13	QPSK10M	Front Face	1	23230	1	0	Full	-	23.50	23.24	-0.06	0.177	1.000	1.062	**0.19**
	LTE 13	QPSK10M	Rear Face	1	23230	1	0	Full	-	23.50	23.24	0.13	0.154	1.000	1.062	0.16
	LTE 13	QPSK10M	Front Face	1	23230	25	0	Full	-	22.50	22.25	0.13	0.135	1.000	1.059	0.14
	LTE 13	QPSK10M	Rear Face	1	23230	25	0	Full	-	22.50	22.25	0.03	0.117	1.000	1.059	0.12
P51	LTE 14	QPSK10M	Front Face	1	23330	1	0	Full	-	23.50	23.26	-0.10	0.202	1.000	1.057	**0.21**
	LTE 14	QPSK10M	Rear Face	1	23330	1	0	Full	-	23.50	23.26	0.04	0.164	1.000	1.057	0.17
	LTE 14	QPSK10M	Front Face	1	23330	25	0	Full	-	22.50	22.08	0.00	0.152	1.000	1.102	0.17
	LTE 14	QPSK10M	Rear Face	1	23330	25	0	Full	-	22.50	22.08	0.05	0.123	1.000	1.102	0.14
	LTE 41/38	QPSK20M	Front Face	1	41490	1	50	Full	62.9	23.50	23.01	0.17	0.660	1.006	1.119	0.74
P52	LTE 41/38	QPSK20M	Rear Face	1	41490	1	50	Full	62.9	23.50	23.01	0.01	0.692	1.006	1.119	**0.78**
	LTE 41/38	QPSK20M	Front Face	1	41490	50	25	Full	62.9	22.50	21.95	-0.17	0.505	1.006	1.135	0.58
	LTE 41/38	QPSK20M	Rear Face	1	41490	50	25	Full	62.9	22.50	21.95	0.11	0.514	1.006	1.135	0.59
	LTE 41/38	QPSK20M	Front Face	1	39750	1	50	Full	62.9	23.50	22.80	-0.15	0.555	1.006	1.175	0.66
	LTE 41/38	QPSK20M	Front Face	1	39790	1	50	Full	62.9	23.50	22.94	0.14	0.559	1.006	1.138	0.64
	LTE 41/38	QPSK20M	Front Face	1	40185	1	50	Full	62.9	23.50	22.96	0.15	0.621	1.006	1.132	0.71
	LTE 41/38	QPSK20M	Front Face	1	40620	1	50	Full	62.9	23.50	22.98	-0.01	0.597	1.006	1.127	0.68
	LTE 41/38	QPSK20M	Front Face	1	41055	1	50	Full	62.9	23.50	23.00	0.01	0.587	1.006	1.122	0.66
	LTE 41/38	QPSK20M	Rear Face	1	39750	1	50	Full	62.9	23.50	22.80	0.02	0.583	1.006	1.175	0.69
	LTE 41/38	QPSK20M	Rear Face	1	39790	1	50	Full	62.9	23.50	22.94	0.01	0.588	1.006	1.138	0.67
	LTE 41/38	QPSK20M	Rear Face	1	40185	1	50	Full	62.9	23.50	22.96	0.01	0.650	1.006	1.132	0.74
	LTE 41/38	QPSK20M	Rear Face	1	40620	1	50	Full	62.9	23.50	22.98	-0.06	0.627	1.006	1.127	0.71
	LTE 41/38	QPSK20M	Rear Face	1	41055	1	50	Full	62.9	23.50	23.00	-0.07	0.614	1.006	1.122	0.69
	LTE 41/38	QPSK20M	Front Face	1	41490	100	0	Full	62.9	22.50	21.79	-0.01	0.490	1.006	1.178	0.58
	LTE 41/38	QPSK20M	Rear Face	1	41490	100	0	Full	62.9	22.50	21.79	-0.14	0.501	1.006	1.178	0.59
	LTE 41/38	QPSK20M	Rear Face	1	PCC:40521 SCC:40719	PCC:1 SCC:1	PCC:99 SCC:0	Full	62.9	23.00	22.25	0.03	0.637	1.006	1.189	0.76
	LTE 66 /4	QPSK20M	Front Face	1	132322	1	99	Full	-	23.50	23.12	-0.15	0.438	1.000	1.091	0.48
	LTE 66 /4	QPSK20M	Rear Face	1	132322	1	99	Full	-	23.50	23.12	-0.15	0.292	1.000	1.091	0.32
	LTE 66 /4	QPSK20M	Front Face	1	132322	50	25	Full	-	22.50	21.80	-0.12	0.318	1.000	1.175	0.37
	LTE 66 /4	QPSK20M	Rear Face	1	132322	50	25	Full	-	22.50	21.80	-0.07	0.233	1.000	1.175	0.27
P53	LTE 66 /4	QPSK20M	Front Face	1	132072	1	99	Full	-	23.50	23.09	0.01	0.439	1.000	1.099	**0.48**
	LTE 66 /4	QPSK20M	Front Face	1	132572	1	99	Full	-	23.50	23.02	-0.04	0.370	1.000	1.117	0.41
	WLAN2.4G	802.11b	Front Face	1	1	-	-	Full	98.51	18.50	18.17	0.13	0.183	1.015	1.079	0.20
	WLAN2.4G	802.11b	Rear Face	1	1	-	-	Full	98.51	18.50	18.17	-0.10	0.172	1.015	1.079	0.19
	WLAN2.4G	802.11b	Front Face	1	6	-	-	Full	98.51	18.50	17.58	0.09	0.135	1.015	1.236	0.17

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	RB#	RB Offset	Power Reduction	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled SAR-1g (W/kg)
P54	WLAN2.4G	802.11b	Front Face	1	11	-	-	Full	98.51	18.50	17.29	0.19	0.175	1.015	1.321	**0.23**
	WLAN5G	802.11a	Front Face	1	64	-	-	Full	98.39	16.00	15.41	0.08	0.094	1.016	1.146	0.11
	WLAN5G	802.11a	Rear Face	1	64	-	-	Full	98.39	16.00	15.41	-0.13	0.166	1.016	1.146	0.19
P55	WLAN5G	802.11a	Rear Face	1	52	-	-	Full	98.39	16.00	14.71	-0.09	0.208	1.016	1.346	**0.28**
	WLAN5G	802.11a	Rear Face	1	56	-	-	Full	98.39	16.00	14.89	-0.01	0.200	1.016	1.291	0.26
	WLAN5G	802.11a	Rear Face	1	60	-	-	Full	98.39	16.00	14.92	-0.07	0.197	1.016	1.282	0.26
	WLAN5G	802.11a	Front Face	1	149	-	-	Full	98.39	15.00	14.86	0.15	0.096	1.016	1.033	0.10
	WLAN5G	802.11a	Rear Face	1	149	-	-	Full	98.39	15.00	14.86	0.10	0.402	1.016	1.033	0.42
P56	WLAN5G	802.11a	Rear Face	1	157	-	-	Full	98.39	15.00	13.28	-0.02	0.485	1.016	1.486	**0.73**
	WLAN5G	802.11a	Rear Face	1	165	-	-	Full	98.39	15.00	14.51	-0.04	0.534	1.016	1.119	0.61
	BT	GFSK	Front Face	1	78	-	-	Full	76.8	9.00	8.60	-0.06	0.018	1.302	1.096	0.03
	BT	GFSK	Rear Face	1	78	-	-	Full	76.8	9.00	8.60	0.03	0.014	1.302	1.096	0.02
	BT	GFSK	Front Face	1	0	-	-	Full	76.8	9.00	8.16	-0.14	0.017	1.302	1.213	0.03
P57	BT	GFSK	Front Face	1	39	-	-	Full	76.8	9.00	7.66	0.10	0.020	1.302	1.361	**0.04**

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

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	RB#	RB Offset	Power Reduction	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-10g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled SAR-10g (W/kg)
P58	LTE 7	QPSK20M	Bottom Side	0	21350	1	50	Reduce	-	22.50	22.37	0.15	2.070	1.000	1.030	**2.13**
	LTE 7	QPSK20M	Bottom Side	0	21350	50	25	Reduce	-	22.50	22.26	0.09	2.010	1.000	1.057	2.12
	LTE 7	QPSK20M	Bottom Side	0	20850	1	50	Reduce	-	22.50	22.13	-0.04	1.840	1.000	1.089	2.00
	LTE 7	QPSK20M	Bottom Side	0	21100	1	50	Reduce	-	22.50	22.08	-0.17	1.810	1.000	1.102	1.99
	LTE 7	QPSK20M	Bottom Side	0	20850	50	25	Reduce	-	22.50	21.84	-0.06	1.780	1.000	1.164	2.07
	LTE 7	QPSK20M	Bottom Side	0	21100	50	25	Reduce	-	22.50	22.06	0.05	1.820	1.000	1.107	2.01
	LTE 7	QPSK20M	Bottom Side	0	21350	100	0	Reduce	-	22.50	22.14	0.00	1.810	1.000	1.086	1.97
	LTE 7	QPSK20M	Bottom Side	1.2	21100	1	50	Full	-	23.50	22.93	-0.11	0.858	1.000	1.140	0.98
	LTE 7	QPSK20M	Bottom Side	0	PCC:21001 SCC:21199	PCC:1 SCC:1	PCC:99 SCC:0	Reduce	-	21.73	22.00	0.07	1.970	1.000	0.940	1.85
P59	LTE 41/38	QPSK20M	Bottom Side	0	41490	1	50	Full	62.9	23.50	23.01	0.03	2.160	1.006	1.119	**2.43**
	LTE 41/38	QPSK20M	Bottom Side	0	41490	50	25	Full	62.9	22.50	21.95	0.06	1.740	1.006	1.135	1.99
	LTE 41/38	QPSK20M	Bottom Side	0	39750	1	50	Full	62.9	23.50	22.80	0.08	1.730	1.006	1.175	2.05
	LTE 41/38	QPSK20M	Bottom Side	0	39790	1	50	Full	62.9	23.50	22.94	0.10	1.760	1.006	1.138	2.01
	LTE 41/38	QPSK20M	Bottom Side	0	40185	1	50	Full	62.9	23.50	22.96	0.02	1.990	1.006	1.132	2.27
	LTE 41/38	QPSK20M	Bottom Side	0	40620	1	50	Full	62.9	23.50	22.98	0.10	1.920	1.006	1.127	2.18
	LTE 41/38	QPSK20M	Bottom Side	0	41055	1	50	Full	62.9	23.50	23.00	0.05	1.870	1.006	1.122	2.11
	LTE 41/38	QPSK20M	Bottom Side	0	39750	50	25	Full	62.9	22.50	21.79	0.06	1.380	1.006	1.178	1.64
	LTE 41/38	QPSK20M	Bottom Side	0	39790	50	25	Full	62.9	22.50	21.90	-0.07	1.350	1.006	1.148	1.56
	LTE 41/38	QPSK20M	Bottom Side	0	40185	50	25	Full	62.9	22.50	21.83	0.03	1.550	1.006	1.167	1.82
	LTE 41/38	QPSK20M	Bottom Side	0	40620	50	25	Full	62.9	22.50	21.89	-0.07	1.490	1.006	1.151	1.73
	LTE 41/38	QPSK20M	Bottom Side	0	41055	50	25	Full	62.9	22.50	21.94	-0.15	1.450	1.006	1.138	1.66
	LTE 41/38	QPSK20M	Bottom Side	0	41490	100	0	Full	62.9	22.50	21.79	0.16	1.710	1.006	1.178	2.03
	LTE 41/38	QPSK20M	Bottom Side	0	PCC:40521 SCC:40719	PCC:1 SCC:1	PCC:99 SCC:0	Full	62.9	23.00	22.50	0.10	2.030	1.006	1.122	2.29
	WLAN5G	802.11a	Front Face	0	64	-	-	Full	98.39	16.00	15.41	0.00	0.211	1.016	1.146	0.25
	WLAN5G	802.11a	Rear Face	0	64	-	-	Full	98.39	16.00	15.41	-0.19	0.234	1.016	1.146	0.27
	WLAN5G	802.11a	Left Side	0	64	-	-	Full	98.39	16.00	15.41	0.07	0.342	1.016	1.146	0.40
	WLAN5G	802.11a	Right Side	0	64	-	-	Full	98.39	16.00	15.41	0.06	0.026	1.016	1.146	0.03
	WLAN5G	802.11a	Top Side	0	64	-	-	Full	98.39	16.00	15.41	0.07	0.419	1.016	1.146	0.49
P60	WLAN5G	802.11a	Top Side	0	52	-	-	Full	98.39	16.00	14.71	0.03	0.366	1.016	1.346	**0.50**
	WLAN5G	802.11a	Top Side	0	56	-	-	Full	98.39	16.00	14.89	-0.03	0.361	1.016	1.291	0.47
	WLAN5G	802.11a	Top Side	0	60	-	-	Full	98.39	16.00	14.92	0.14	0.377	1.016	1.282	0.49

Note：When the hotspot SAR is adjusted for maximum tune-up tolerance and the result is <1.2W/kg, the extremity SAR is not required.

4.6.6 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	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
LTE 7	Rear Face at 1cm	21350	1.190	1.140	1.044	N/A	N/A	N/A	N/A

4.6.7 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.

<Head Exposure Condition>

WWAN Band	Exposure Position	1	2	3	4	1+2 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	SPLSR Analysis
		WWAN	2.4GHz WLAN	5GHz WLAN	Bluetooth				
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)				
GSM850	Right Cheek	0.82	1.02	0.50	0.01	**1.84**	**1.32**	**0.83**	Case 1
	Right Tilted	0.41	0.55	0.28	0.01	**0.96**	**0.69**	**0.42**	
	Left Cheek	0.79	0.35	0.20	0.01	**1.14**	**0.99**	**0.80**	
	Left Tilted	0.41	0.27	0.21	0.00	**0.68**	**0.62**	**0.41**	
GSM1900	Right Cheek	0.09	1.02	0.50	0.01	**1.11**	**0.59**	**0.10**	
	Right Tilted	0.07	0.55	0.28	0.01	**0.62**	**0.35**	**0.08**	
	Left Cheek	0.21	0.35	0.20	0.01	**0.56**	**0.41**	**0.22**	
	Left Tilted	0.08	0.27	0.21	0.00	**0.35**	**0.29**	**0.08**	
CDMA BC0	Right Cheek	0.39	1.02	0.50	0.01	**1.41**	**0.89**	**0.40**	
	Right Tilted	0.16	0.55	0.28	0.01	**0.71**	**0.44**	**0.17**	
	Left Cheek	0.28	0.35	0.20	0.01	**0.63**	**0.48**	**0.29**	
	Left Tilted	0.15	0.27	0.21	0.00	**0.42**	**0.36**	**0.15**	
CDMA BC1	Right Cheek	0.34	1.02	0.50	0.01	**1.36**	**0.84**	**0.35**	
	Right Tilted	0.23	0.55	0.28	0.01	**0.78**	**0.51**	**0.24**	
	Left Cheek	0.62	0.35	0.20	0.01	**0.97**	**0.82**	**0.63**	
	Left Tilted	0.26	0.27	0.21	0.00	**0.53**	**0.47**	**0.26**	
WCDMA II	Right Cheek	0.21	1.02	0.50	0.01	**1.23**	**0.71**	**0.22**	
	Right Tilted	0.18	0.55	0.28	0.01	**0.73**	**0.46**	**0.19**	
	Left Cheek	0.52	0.35	0.20	0.01	**0.87**	**0.72**	**0.53**	
	Left Tilted	0.21	0.27	0.21	0.00	**0.48**	**0.42**	**0.21**	
WCDMA IV	Right Cheek	0.30	1.02	0.50	0.01	**1.32**	**0.80**	**0.31**	
	Right Tilted	0.15	0.55	0.28	0.01	**0.70**	**0.43**	**0.16**	
	Left Cheek	0.77	0.35	0.20	0.01	**1.12**	**0.97**	**0.78**	
	Left Tilted	0.17	0.27	0.21	0.00	**0.44**	**0.38**	**0.17**	
WCDMA V	Right Cheek	0.36	1.02	0.50	0.01	**1.38**	**0.86**	**0.37**	
	Right Tilted	0.20	0.55	0.28	0.01	**0.75**	**0.48**	**0.21**	
	Left Cheek	0.34	0.35	0.20	0.01	**0.69**	**0.54**	**0.35**	
	Left Tilted	0.20	0.27	0.21	0.00	**0.47**	**0.41**	**0.20**	
LTE 2	Right Cheek	0.19	1.02	0.50	0.01	**1.21**	**0.69**	**0.20**	

WWAN Band	Exposure Position	1	2	3	4	1+2 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	SPLSR Analysis
		WWAN	2.4GHz WLAN	5GHz WLAN	Bluetooth				
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)				
	Right Tilted	0.15	0.55	0.28	0.01	**0.70**	**0.43**	**0.16**	
	Left Cheek	0.44	0.35	0.20	0.01	**0.79**	**0.64**	**0.45**	
	Left Tilted	0.18	0.27	0.21	0.00	**0.45**	**0.39**	**0.18**	
LTE 5	Right Cheek	0.27	1.02	0.50	0.01	**1.29**	**0.77**	**0.28**	
	Right Tilted	0.14	0.55	0.28	0.01	**0.69**	**0.42**	**0.15**	
	Left Cheek	0.24	0.35	0.20	0.01	**0.59**	**0.44**	**0.25**	
	Left Tilted	0.15	0.27	0.21	0.00	**0.42**	**0.36**	**0.15**	
LTE 7	Right Cheek	0.21	1.02	0.50	0.01	**1.23**	**0.71**	**0.22**	
	Right Tilted	0.17	0.55	0.28	0.01	**0.72**	**0.45**	**0.18**	
	Left Cheek	0.36	0.35	0.20	0.01	**0.71**	**0.56**	**0.37**	
	Left Tilted	0.13	0.27	0.21	0.00	**0.40**	**0.34**	**0.13**	
LTE 12/17	Right Cheek	0.15	1.02	0.50	0.01	**1.17**	**0.65**	**0.16**	
	Right Tilted	0.07	0.55	0.28	0.01	**0.62**	**0.35**	**0.08**	
	Left Cheek	0.14	0.35	0.20	0.01	**0.49**	**0.34**	**0.15**	
	Left Tilted	0.08	0.27	0.21	0.00	**0.35**	**0.29**	**0.08**	
LTE 13	Right Cheek	0.15	1.02	0.50	0.01	**1.17**	**0.65**	**0.16**	
	Right Tilted	0.09	0.55	0.28	0.01	**0.64**	**0.37**	**0.10**	
	Left Cheek	0.15	0.35	0.20	0.01	**0.50**	**0.35**	**0.16**	
	Left Tilted	0.10	0.27	0.21	0.00	**0.37**	**0.31**	**0.10**	
LTE 14	Right Cheek	0.16	1.02	0.50	0.01	**1.18**	**0.66**	**0.17**	
	Right Tilted	0.09	0.55	0.28	0.01	**0.64**	**0.37**	**0.10**	
	Left Cheek	0.14	0.35	0.20	0.01	**0.49**	**0.34**	**0.15**	
	Left Tilted	0.11	0.27	0.21	0.00	**0.38**	**0.32**	**0.11**	
LTE 41/38	Right Cheek	0.23	1.02	0.50	0.01	**1.25**	**0.73**	**0.24**	
	Right Tilted	0.22	0.55	0.28	0.01	**0.77**	**0.50**	**0.23**	
	Left Cheek	0.42	0.35	0.20	0.01	**0.77**	**0.62**	**0.43**	
	Left Tilted	0.18	0.27	0.21	0.00	**0.45**	**0.39**	**0.18**	
LTE 66 / 4	Right Cheek	0.34	1.02	0.50	0.01	**1.36**	**0.84**	**0.35**	
	Right Tilted	0.17	0.55	0.28	0.01	**0.72**	**0.45**	**0.18**	
	Left Cheek	0.50	0.35	0.20	0.01	**0.85**	**0.70**	**0.51**	
	Left Tilted	0.13	0.27	0.21	0.00	**0.40**	**0.34**	**0.13**	

<Hotspot Exposure Condition>

WWAN Band	Exposure Position	1 WWAN 1g SAR (W/kg)	2 2.4GHz WLAN 1g SAR (W/kg)	3 5GHz WLAN 1g SAR (W/kg)	4 Bluetooth 1g SAR (W/kg)	1+2 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	SPLSR Analysis
GSM850	Front Face at 1cm	0.77	0.20	0.12	0.03	**0.97**	**0.89**	**0.80**	
	Rear Face at 1cm	0.79	0.19	0.73	0.02	**0.98**	**1.52**	**0.81**	
	Left side at 1cm	0.43	0.26	0.48	0.04	**0.69**	**0.91**	**0.47**	
	Right side at 1cm	0.57	0.00	0.09	0.00	**0.57**	**0.66**	**0.57**	
	Top side at 1cm	0.00	0.12	0.28	0.02	**0.12**	**0.28**	**0.02**	
	Bottom side at 1cm	0.56	0.00	0.00	0.00	**0.56**	**0.56**	**0.56**	
GSM1900	Front Face at 1cm	0.45	0.20	0.12	0.03	**0.65**	**0.57**	**0.48**	
	Rear Face at 1cm	0.27	0.19	0.73	0.02	**0.46**	**1.00**	**0.29**	
	Left side at 1cm	0.19	0.26	0.48	0.04	**0.45**	**0.67**	**0.23**	
	Right side at 1cm	0.05	0.00	0.09	0.00	**0.05**	**0.14**	**0.05**	
	Top side at 1cm	0.00	0.12	0.28	0.02	**0.12**	**0.28**	**0.02**	
	Bottom side at 1cm	0.20	0.00	0.00	0.00	**0.20**	**0.20**	**0.20**	
CDMA BC0	Front Face at 1cm	0.42	0.20	0.12	0.03	**0.62**	**0.54**	**0.45**	
	Rear Face at 1cm	0.35	0.19	0.73	0.02	**0.54**	**1.08**	**0.37**	
	Left side at 1cm	0.20	0.26	0.48	0.04	**0.46**	**0.68**	**0.24**	
	Right side at 1cm	0.29	0.00	0.09	0.00	**0.29**	**0.38**	**0.29**	
	Top side at 1cm	0.00	0.12	0.28	0.02	**0.12**	**0.28**	**0.02**	
	Bottom side at 1cm	0.25	0.00	0.00	0.00	**0.25**	**0.25**	**0.25**	
CDMA BC1	Front Face at 1cm	0.96	0.20	0.12	0.03	**1.16**	**1.08**	**0.99**	
	Rear Face at 1cm	0.62	0.19	0.73	0.02	**0.81**	**1.35**	**0.64**	
	Left side at 1cm	0.54	0.26	0.48	0.04	**0.80**	**1.02**	**0.58**	
	Right side at 1cm	0.15	0.00	0.09	0.00	**0.15**	**0.24**	**0.15**	
	Top side at 1cm	0.00	0.12	0.28	0.02	**0.12**	**0.28**	**0.02**	
	Bottom side at 1cm	0.54	0.00	0.00	0.00	**0.54**	**0.54**	**0.54**	
WCDMA II	Front Face at 1cm	0.77	0.20	0.12	0.03	**0.97**	**0.89**	**0.80**	
	Rear Face at 1cm	0.59	0.19	0.73	0.02	**0.78**	**1.32**	**0.61**	
	Left side at 1cm	0.36	0.26	0.48	0.04	**0.62**	**0.84**	**0.40**	
	Right side at 1cm	0.18	0.00	0.09	0.00	**0.18**	**0.27**	**0.18**	
	Top side at 1cm	0.00	0.12	0.28	0.02	**0.12**	**0.28**	**0.02**	
	Bottom side at 1cm	0.67	0.00	0.00	0.00	**0.67**	**0.67**	**0.67**	
WCDMA IV	Front Face at 1cm	0.58	0.20	0.12	0.03	**0.78**	**0.70**	**0.61**	
	Rear Face at 1cm	0.46	0.19	0.73	0.02	**0.65**	**1.19**	**0.48**	
	Left side at 1cm	0.49	0.26	0.48	0.04	**0.75**	**0.97**	**0.53**	
	Right side at 1cm	0.16	0.00	0.09	0.00	**0.16**	**0.25**	**0.16**	
	Top side at 1cm	0.00	0.12	0.28	0.02	**0.12**	**0.28**	**0.02**	
	Bottom side at 1cm	0.31	0.00	0.00	0.00	**0.31**	**0.31**	**0.31**	
WCDMA V	Front Face at 1cm	0.34	0.20	0.12	0.03	**0.54**	**0.46**	**0.37**	
	Rear Face at 1cm	0.35	0.19	0.73	0.02	**0.54**	**1.08**	**0.37**	

WWAN Band	Exposure Position	1	2	3	4	1+2 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	SPLSR Analysis
		WWAN	2.4GHz WLAN	5GHz WLAN	Bluetooth				
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)				
	Left side at 1cm	0.15	0.26	0.48	0.04	**0.41**	**0.63**	**0.19**	
	Right side at 1cm	0.18	0.00	0.09	0.00	**0.18**	**0.27**	**0.18**	
	Top side at 1cm	0.00	0.12	0.28	0.02	**0.12**	**0.28**	**0.02**	
	Bottom side at 1cm	0.28	0.00	0.00	0.00	**0.28**	**0.28**	**0.28**	
LTE 2	Front Face at 1cm	0.73	0.20	0.12	0.03	**0.93**	**0.85**	**0.76**	
	Rear Face at 1cm	0.50	0.19	0.73	0.02	**0.69**	**1.23**	**0.52**	
	Left side at 1cm	0.35	0.26	0.48	0.04	**0.61**	**0.83**	**0.39**	
	Right side at 1cm	0.12	0.00	0.09	0.00	**0.12**	**0.21**	**0.12**	
	Top side at 1cm	0.00	0.12	0.28	0.02	**0.12**	**0.28**	**0.02**	
	Bottom side at 1cm	0.42	0.00	0.00	0.00	**0.42**	**0.42**	**0.42**	
LTE 5	Front Face at 1cm	0.25	0.20	0.12	0.03	**0.45**	**0.37**	**0.28**	
	Rear Face at 1cm	0.33	0.19	0.73	0.02	**0.52**	**1.06**	**0.35**	
	Left side at 1cm	0.10	0.26	0.48	0.04	**0.36**	**0.58**	**0.14**	
	Right side at 1cm	0.15	0.00	0.09	0.00	**0.15**	**0.24**	**0.15**	
	Top side at 1cm	0.00	0.12	0.28	0.02	**0.12**	**0.28**	**0.02**	
	Bottom side at 1cm	0.21	0.00	0.00	0.00	**0.21**	**0.21**	**0.21**	
LTE 7	Front Face at 1cm	0.58	0.20	0.12	0.03	**0.78**	**0.70**	**0.61**	
	Rear Face at 1cm	0.60	0.19	0.73	0.02	**0.79**	**1.33**	**0.62**	
	Left side at 1cm	0.27	0.26	0.48	0.04	**0.53**	**0.75**	**0.31**	
	Right side at 1cm	0.03	0.00	0.09	0.00	**0.03**	**0.12**	**0.03**	
	Top side at 1cm	0.00	0.12	0.28	0.02	**0.12**	**0.28**	**0.02**	
	Bottom side at 1cm	1.12	0.00	0.00	0.00	**1.12**	**1.12**	**1.12**	
LTE 12/17	Front Face at 1cm	0.18	0.20	0.12	0.03	**0.38**	**0.30**	**0.21**	
	Rear Face at 1cm	0.15	0.19	0.73	0.02	**0.34**	**0.88**	**0.17**	
	Left side at 1cm	0.14	0.26	0.48	0.04	**0.40**	**0.62**	**0.18**	
	Right side at 1cm	0.14	0.00	0.09	0.00	**0.14**	**0.23**	**0.14**	
	Top side at 1cm	0.00	0.12	0.28	0.02	**0.12**	**0.28**	**0.02**	
	Bottom side at 1cm	0.10	0.00	0.00	0.00	**0.10**	**0.10**	**0.10**	
LTE 13	Front Face at 1cm	0.19	0.20	0.12	0.03	**0.39**	**0.31**	**0.22**	
	Rear Face at 1cm	0.16	0.19	0.73	0.02	**0.35**	**0.89**	**0.18**	
	Left side at 1cm	0.12	0.26	0.48	0.04	**0.38**	**0.60**	**0.16**	
	Right side at 1cm	0.13	0.00	0.09	0.00	**0.13**	**0.22**	**0.13**	
	Top side at 1cm	0.00	0.12	0.28	0.02	**0.12**	**0.28**	**0.02**	
	Bottom side at 1cm	0.12	0.00	0.00	0.00	**0.12**	**0.12**	**0.12**	
LTE 14	Front Face at 1cm	0.21	0.20	0.12	0.03	**0.41**	**0.33**	**0.24**	
	Rear Face at 1cm	0.17	0.19	0.73	0.02	**0.36**	**0.90**	**0.19**	
	Left side at 1cm	0.12	0.26	0.48	0.04	**0.38**	**0.60**	**0.16**	
	Right side at 1cm	0.13	0.00	0.09	0.00	**0.13**	**0.22**	**0.13**	

WWAN Band	Exposure Position	1	2	3	4	1+2 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	SPLSR Analysis
		WWAN	2.4GHz WLAN	5GHz WLAN	Bluetooth				
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)				
	Top side at 1cm	0.00	0.12	0.28	0.02	**0.12**	**0.28**	**0.02**	
	Bottom side at 1cm	0.15	0.00	0.00	0.00	**0.15**	**0.15**	**0.15**	
LTE 41/38	Front Face at 1cm	0.36	0.20	0.12	0.03	**0.56**	**0.48**	**0.39**	
	Rear Face at 1cm	0.41	0.19	0.73	0.02	**0.60**	**1.14**	**0.43**	
	Left side at 1cm	0.22	0.26	0.48	0.04	**0.48**	**0.70**	**0.26**	
	Right side at 1cm	0.00	0.00	0.09	0.00	**0.00**	**0.09**	**0.00**	
	Top side at 1cm	0.00	0.12	0.28	0.02	**0.12**	**0.28**	**0.02**	
	Bottom side at 1cm	0.93	0.00	0.00	0.00	**0.93**	**0.93**	**0.93**	
LTE 66 / 4	Front Face at 1cm	0.48	0.20	0.12	0.03	**0.68**	**0.60**	**0.51**	
	Rear Face at 1cm	0.32	0.19	0.73	0.02	**0.51**	**1.05**	**0.34**	
	Left side at 1cm	0.37	0.26	0.48	0.04	**0.63**	**0.85**	**0.41**	
	Right side at 1cm	0.10	0.00	0.09	0.00	**0.10**	**0.19**	**0.10**	
	Top side at 1cm	0.00	0.12	0.28	0.02	**0.12**	**0.28**	**0.02**	
	Bottom side at 1cm	0.26	0.00	0.00	0.00	**0.26**	**0.26**	**0.26**	

<Body Worn Exposure Condition>

WWAN Band	Exposure Position	1	2	3	4	1+2 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	SPLSR Analysis
		WWAN	2.4GHz WLAN	5GHz WLAN	Bluetooth				
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)				
GSM850	Front Face at 1cm	0.77	0.23	0.11	0.04	**1.00**	**0.88**	**0.81**	
	Rear Face at 1cm	0.79	0.19	0.73	0.02	**0.98**	**1.52**	**0.81**	
GSM1900	Front Face at 1cm	0.45	0.23	0.11	0.04	**0.68**	**0.56**	**0.49**	
	Rear Face at 1cm	0.27	0.19	0.73	0.02	**0.46**	**1.00**	**0.29**	
CDMA BC0	Front Face at 1cm	0.36	0.23	0.11	0.04	**0.59**	**0.47**	**0.40**	
	Rear Face at 1cm	0.31	0.19	0.73	0.02	**0.50**	**1.04**	**0.33**	
CDMA BC1	Front Face at 1cm	0.94	0.23	0.11	0.04	**1.17**	**1.05**	**0.98**	
	Rear Face at 1cm	0.60	0.19	0.73	0.02	**0.79**	**1.33**	**0.62**	
WCDMA II	Front Face at 1cm	0.77	0.23	0.11	0.04	**1.00**	**0.88**	**0.81**	
	Rear Face at 1cm	0.59	0.19	0.73	0.02	**0.78**	**1.32**	**0.61**	
WCDMA IV	Front Face at 1cm	0.58	0.23	0.11	0.04	**0.81**	**0.69**	**0.62**	
	Rear Face at 1cm	0.46	0.19	0.73	0.02	**0.65**	**1.19**	**0.48**	
WCDMA V	Front Face at 1cm	0.34	0.23	0.11	0.04	**0.57**	**0.45**	**0.38**	
	Rear Face at 1cm	0.35	0.19	0.73	0.02	**0.54**	**1.08**	**0.37**	
LTE 2	Front Face at 1cm	0.73	0.23	0.11	0.04	**0.96**	**0.84**	**0.77**	
	Rear Face at 1cm	0.50	0.19	0.73	0.02	**0.69**	**1.23**	**0.52**	
LTE 5	Front Face at 1cm	0.25	0.23	0.11	0.04	**0.48**	**0.36**	**0.29**	
	Rear Face at 1cm	0.33	0.19	0.73	0.02	**0.52**	**1.06**	**0.35**	

WWAN Band	Exposure Position	1	2	3	4	1+2 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	SPLSR Analysis
		WWAN	2.4GHz WLAN	5GHz WLAN	Bluetooth				
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)				
LTE 7	Front Face at 1cm	1.29	0.23	0.11	0.04	**1.52**	**1.40**	**1.33**	
	Rear Face at 1cm	1.32	0.19	0.73	0.02	**1.51**	**2.05**	**1.34**	Case 2
LTE 12/17	Front Face at 1cm	0.18	0.23	0.11	0.04	**0.41**	**0.29**	**0.22**	
	Rear Face at 1cm	0.15	0.19	0.73	0.02	**0.34**	**0.88**	**0.17**	
LTE 13	Front Face at 1cm	0.19	0.23	0.11	0.04	**0.42**	**0.30**	**0.23**	
	Rear Face at 1cm	0.16	0.19	0.73	0.02	**0.35**	**0.89**	**0.18**	
LTE 14	Front Face at 1cm	0.21	0.23	0.11	0.04	**0.44**	**0.32**	**0.25**	
	Rear Face at 1cm	0.17	0.19	0.73	0.02	**0.36**	**0.90**	**0.19**	
LTE 41/38	Front Face at 1cm	0.74	0.23	0.11	0.04	**0.97**	**0.85**	**0.78**	
	Rear Face at 1cm	0.78	0.19	0.73	0.02	**0.97**	**1.51**	**0.80**	
LTE 66 / 4	Front Face at 1cm	0.48	0.23	0.11	0.04	**0.71**	**0.59**	**0.52**	
	Rear Face at 1cm	0.32	0.19	0.73	0.02	**0.51**	**1.05**	**0.34**	

<Extremity Exposure Condition>

WWAN Band	Exposure Position	1	2	1+3 Summed 10g SAR (W/kg)
		WWAN	5GHz WLAN	
		10g SAR (W/kg)	10g SAR (W/kg)	
LTE 7	Front at 0mm -	0.00	0.25	**0.25**
	Rear at 0mm -	0.00	0.27	**0.27**
	Left side at 0mm -	0.00	0.40	**0.40**
	Right side at 0mm -	0.00	0.03	**0.03**
	Top side at 0mm -	0.00	0.50	**0.50**
	Bottom side at 0mm -	2.13	0.00	**2.13**
LTE 41/38	Front at 0mm -	0.00	0.25	**0.25**
	Rear at 0mm -	0.00	0.27	**0.27**
	Left side at 0mm -	0.00	0.40	**0.40**
	Right side at 0mm -	0.00	0.03	**0.03**
	Top side at 0mm -	0.00	0.50	**0.50**
	Bottom side at 0mm -	2.43	0.00	**2.43**

<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.

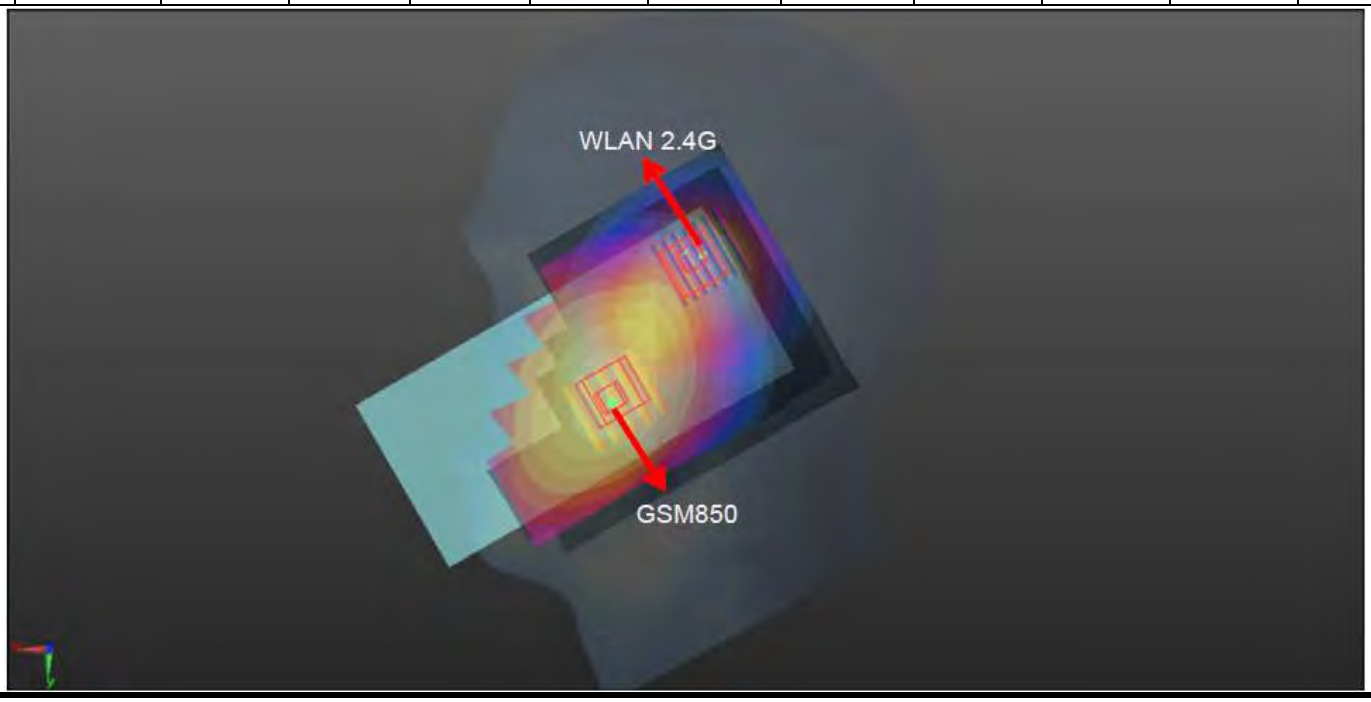
The SPLSR is determined by the following formula.

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

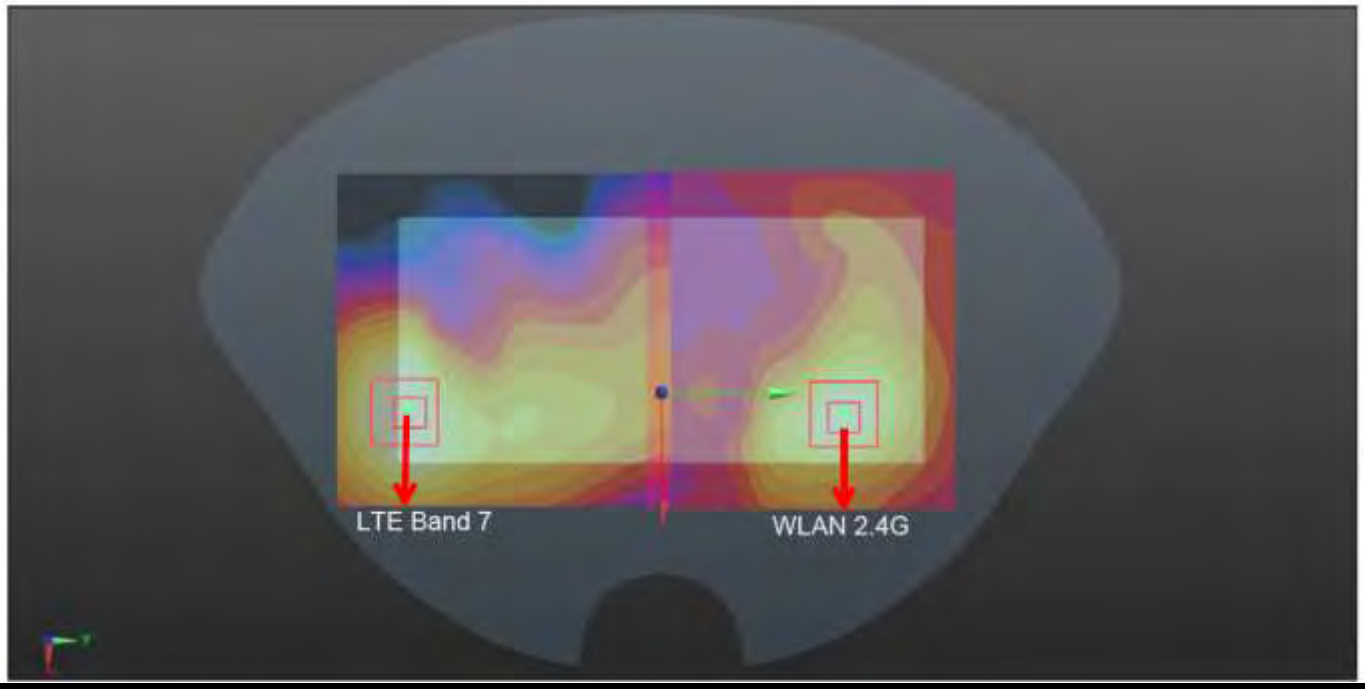
Where SAR_1 and SAR_2 are the highest reported or estimated SAR for each antenna in the pair, and R_i is the separation distance between the peak SAR locations for the antenna pair in mm.

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

Plot No	Band	Position	SAR (W/kg)	Gap	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(cm)	X	Y	Z				
Case 1	GSM850	Right Cheek	0.819	0mm	0.070	-0.262	-0.170	72.7	1.84	0.03	Not required
	WLAN2.4G		1.022	0mm	0.037	-0.327	-0.172				



Plot No	Band	Position	SAR (W/kg)	Gap (cm)	SAR peak location (m) X	Y	Z	3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 2	LTE Band 7	Rear Face	1.323	10mm	0.005	-0.082	-0.203	141.2	2.06	0.02	Not required
	WLAN5G		0.732	10mm	0.007	0.059	-0.205				



Test Engineer： Rikou Lu, and Jiawei Tu

5. Calibration of Test Equipment

Equipment	Manufacturer	Model	SN	Cal. Data	Due Data
System Validation Dipole	SPEAG	D750V3	1067	Jun. 17, 2024	Jun. 16, 2025
System Validation Dipole	SPEAG	D835V2	4d139	Jun. 16, 2024	Jun. 15, 2025
System Validation Dipole	SPEAG	D1750V2	1071	Jun. 17, 2024	Jun. 16, 2025
System Validation Dipole	SPEAG	D1900V2	5d159	Jun. 15, 2024	Jun. 14, 2025
System Validation Dipole	SPEAG	D2450V2	893	Jun. 15, 2024	Jun. 14, 2025
System Validation Dipole	SPEAG	D2600V2	1110	Jun. 17, 2024	Jun. 16, 2025
System Validation Dipole	SPEAG	D5GHzV2	1133	Jun. 15, 2024	Jun. 14, 2025
Dosimetric E-Field Probe	SPEAG	EX3DV4	3985	July. 23, 2024	July. 22, 2025
Data Acquisition Electronics	SPEAG	DAE4	1389	Nov. 03, 2023	Nov. 02, 2024
Dielectric Probe Kit	SPEAG	DAK-3.5	1076	Aug. 20, 2024	Aug. 19, 2025
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Jan. 31, 2024	Jan. 30, 2025
Wireless Communication Test Set	Agilent	E5515C	MY50260600	Apr. 28, 2024	Apr. 27, 2025
ENA Series Network Analyzer	Agilent	E5071C	MY46214638	Apr. 28, 2024	Apr. 27, 2025
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510355	Jan. 31, 2024	Jan. 30, 2025
MXG Analog Signal Generator	KEYSIGHT	N5183A	MY50143024	Jan. 31, 2024	Jan. 30, 2025
Power Meter	Agilent	N1914A	MY52180044	Jan. 30, 2024	Jan. 29, 2025
Power Sensor	Agilent	E9304A H18	MY52050011	Jan. 30, 2024	Jan. 29, 2025
Power Meter	ANRITSU	ML2495A	1506002	Jan. 30, 2024	Jan. 29, 2025
Power Sensor	ANRITSU	MA2411B	1339353	Jan. 30, 2024	Jan. 29, 2025
Temp. & Humi. Recorder	HUATO	A2000TH	HE20107712	Apr. 29, 2024	Apr. 28, 2025
Electronic Thermometer	YONGFA	YF-160A	120100323	Apr. 29, 2024	Apr. 28, 2025
Coupler	Woken	0110A056020-10	COM27RW1A3	May. 20, 2024	May. 19, 2025

Note:

1. Referring to KDB 865664 D01 v01r04, the dipole calibration interval can be extended to 3 years with justification. The dipole are also not physically damaged, or repaired during the interval. The dipole justification can be found in appendix C.
   The return loss is ＜ -20dB, within 20% of prior calibration, the impedance is with 5ohm of prior calibration.

6. Measurement Uncertainty

DASY5 Uncertainty Budget								
Error Description	**Uncertainty Value (±%)**	**Probability**	**Divisor**	**(Ci) 1g**	**(Ci) 10g**	**Standard Uncertainty (1g) (±%)**	**Standard Uncertainty (10g) (±%)**	**(Vi) Veff**
Measurement System								
Probe Calibration	6.0	N	1	1	1	6.0	6.0	∞
Axial Isotropy	4.7	R	1.732	0.7	0.7	1.9	1.9	∞
Hemispherical Isotropy	9.6	R	1.732	0.7	0.7	3.9	3.9	∞
Boundary Effects	1.0	R	1.732	1	1	0.6	0.6	∞
Linearity	4.7	R	1.732	1	1	2.7	2.7	∞
System Detection Limits	1.0	R	1.732	1	1	0.6	0.6	∞
Modulation Response	3.2	R	1.732	1	1	1.8	1.8	∞
Readout Electronics	0.3	N	1	1	1	0.3	0.3	∞
Response Time	0.0	R	1.732	1	1	0.0	0.0	∞
Integration Time	2.6	R	1.732	1	1	1.5	1.5	∞
RF Ambient Noise	3.0	R	1.732	1	1	1.7	1.7	∞
RF Ambient Reflections	3.0	R	1.732	1	1	1.7	1.7	∞
Probe Positioner	0.4	R	1.732	1	1	0.2	0.2	∞
Probe Positioning	2.9	R	1.732	1	1	1.7	1.7	∞
Max. SAR Eval.	2.0	R	1.732	1	1	1.2	1.2	∞
Test Sample Related								
Device Positioning	3.0	N	1	1	1	3.0	3.0	35
Device Holder	3.6	N	1	1	1	3.6	3.6	12
Power Drift	5.0	R	1.732	1	1	2.9	2.9	∞
Power Scaling	0.0	R	1.732	1	1	0.0	0.0	∞
Phantom and Setup								
Phantom Uncertainty	6.1	R	1.732	1	1	3.5	3.5	∞
SAR correction	0.0	R	1.732	1	0.84	0.0	0.0	∞
Liquid Conductivity Repeatability	0.2	N	1	0.78	0.71	0.1	0.1	5
Liquid Conductivity (target)	5.0	R	1.732	0.78	0.71	2.3	2.0	∞
Liquid Conductivity (mea.)	2.5	R	1.732	0.78	0.71	1.1	1.0	∞
Temp. unc. - Conductivity	3.4	R	1.732	0.78	0.71	1.5	1.4	∞
Liquid Permittivity Repeatability	0.15	N	1	0.23	0.26	0.0	0.0	5
Liquid Permittivity (target)	5.0	R	1.732	0.23	0.26	0.7	0.8	∞
Liquid Permittivity (mea.)	2.5	R	1.732	0.23	0.26	0.3	0.4	∞
Temp. unc. - Permittivity	0.83	R	1.732	0.23	0.26	0.1	0.1	∞
Combined Std. Uncertainty						11.4%	11.4%	1013
Coverage Factor for 95 %						K=2	K=2	
Expanded STD Uncertainty						22.9%	22.7%	

Uncertainty budget for frequency range 30 MHz to 3 GHz

DASY5 Uncertainty Budget								
Error Description	**Uncertainty Value (±%)**	**Probability**	**Divisor**	**(Ci) 1g**	**(Ci) 10g**	**Standard Uncertainty (1g) (±%)**	**Standard Uncertainty (10g) (±%)**	**(Vi) Veff**
Measurement System								
Probe Calibration	6.55	N	1	1	1	6.5	6.5	∞
Axial Isotropy	4.7	R	1.732	0.7	0.7	1.9	1.9	∞
Hemispherical Isotropy	9.6	R	1.732	0.7	0.7	3.9	3.9	∞
Boundary Effects	2.0	R	1.732	1	1	1.2	1.2	∞
Linearity	4.7	R	1.732	1	1	2.7	2.7	∞
System Detection Limits	1.0	R	1.732	1	1	0.6	0.6	∞
Modulation Response	3.2	R	1.732	1	1	1.8	1.8	∞
Readout Electronics	0.3	N	1	1	1	0.3	0.3	∞
Response Time	0.0	R	1.732	1	1	0.0	0.0	∞
Integration Time	2.6	R	1.732	1	1	1.5	1.5	∞
RF Ambient Noise	3.0	R	1.732	1	1	1.7	1.7	∞
RF Ambient Reflections	3.0	R	1.732	1	1	1.7	1.7	∞
Probe Positioner	0.4	R	1.732	1	1	0.2	0.2	∞
Probe Positioning	6.7	R	1.732	1	1	3.9	3.9	∞
Max. SAR Eval.	4.0	R	1.732	1	1	2.3	2.3	∞
Test Sample Related								
Device Positioning	3.0	N	1	1	1	3.0	3.0	35
Device Holder	3.6	N	1	1	1	3.6	3.6	12
Power Drift	5.0	R	1.732	1	1	2.9	2.9	∞
Power Scaling	0.0	R	1.732	1	1	0.0	0.0	∞
Phantom and Setup								
Phantom Uncertainty	6.6	R	1.732	1	1	3.8	3.8	∞
SAR correction	0.0	R	1.732	1	0.84	0.0	0.0	∞
Liquid Conductivity Repeatability	0.2	N	1	0.78	0.71	0.1	0.1	5
Liquid Conductivity (target)	5.0	R	1.732	0.78	0.71	2.3	2.0	∞
Liquid Conductivity (mea.)	2.5	R	1.732	0.78	0.71	1.1	1.0	∞
Temp. unc. - Conductivity	3.4	R	1.732	0.78	0.71	1.5	1.4	∞
Liquid Permittivity Repeatability	0.15	N	1	0.23	0.26	0.0	0.0	5
Liquid Permittivity (target)	5.0	R	1.732	0.23	0.26	0.7	0.8	∞
Liquid Permittivity (mea.)	2.5	R	1.732	0.23	0.26	0.3	0.4	∞
Temp. unc. - Permittivity	0.83	R	1.732	0.23	0.26	0.1	0.1	∞
Combined Std. Uncertainty						12.5%	12.5%	1458
Coverage Factor for 95 %						K=2	K=2	
Expanded STD Uncertainty						25.0%	24.9%	

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:

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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: BV 7LAYERS SAR/HAC Testing Lab Date: 2024/09/19

System Check_HSL750_20240919

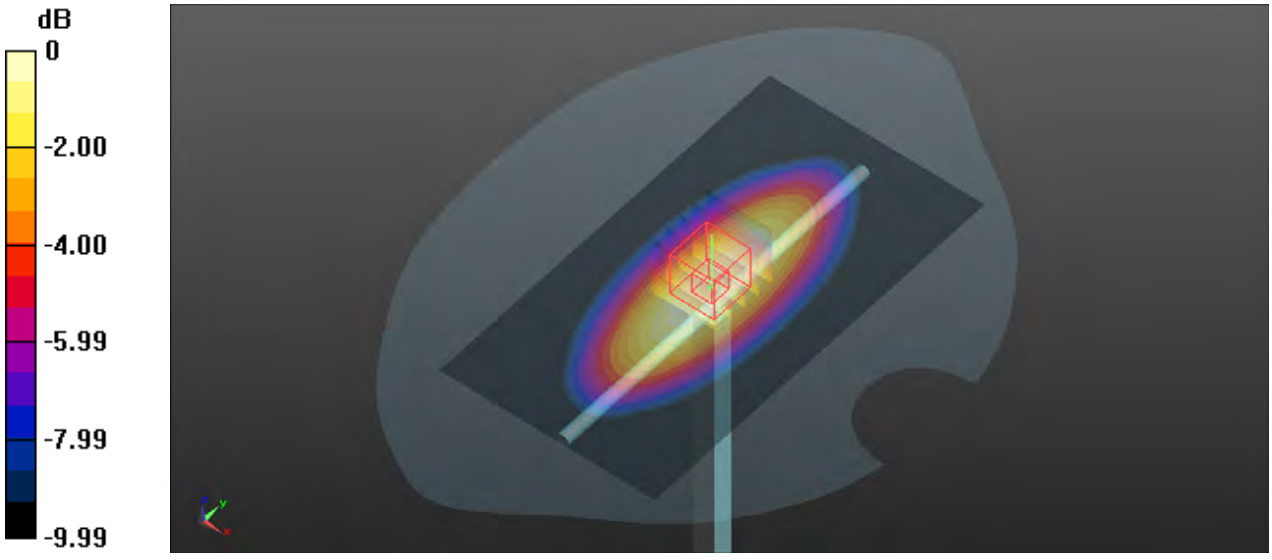
DUT: Dipole:750 MHz;Type:D750V3

Communication System: CW; Frequency: 750 MHz;Duty Cycle: 1:1
Medium: HSL750_0919 Medium parameters used: f = 750 MHz; σ = 0.892 S/m; ε_r = 41.078; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃； Liquid Temperature：22.4℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(10.25, 10.25, 10.25) @ 750 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=250mW/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.79 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 59.97 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 3.16 W/kg
SAR(1 g) = 2.16 W/kg; SAR(10 g) = 1.45 W/kg
Smallest distance from peaks to all points 3 dB below = 18.7 mm
Ratio of SAR at M2 to SAR at M1 = 68.4%
Maximum value of SAR (measured) = 2.70 W/kg



0 dB = 2.70 W/kg

Test Laboratory: BV 7LAYERS SAR/HAC Testing Lab Date: 2024/09/20

System Check_HSL750_20240920

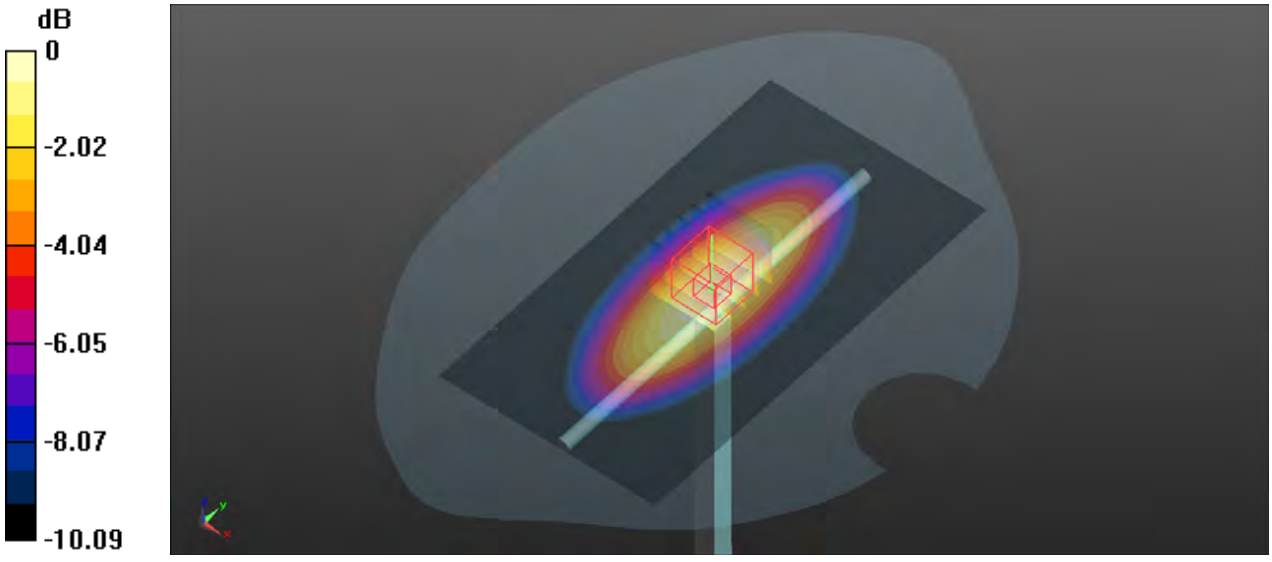
DUT: Dipole:750 MHz;Type:D750V3

Communication System: CW; Frequency: 750 MHz;Duty Cycle: 1:1
Medium: HSL750_0920 Medium parameters used: f = 750 MHz; σ = 0.89 S/m; ε_r = 40.774; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃； Liquid Temperature：22.6℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(10.25, 10.25, 10.25) @ 750 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=250mW/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.53 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 55.68 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 3.15 W/kg
SAR(1 g) = 2.12 W/kg; SAR(10 g) = 1.42 W/kg
Smallest distance from peaks to all points 3 dB below = 17.2 mm
Ratio of SAR at M2 to SAR at M1 = 68.5%
Maximum value of SAR (measured) = 2.66 W/kg



0 dB = 2.66 W/kg

Test Laboratory: BV 7LAYERS SAR/HAC Testing Lab Date: 2024/09/20

System Check_HSL835_20240920

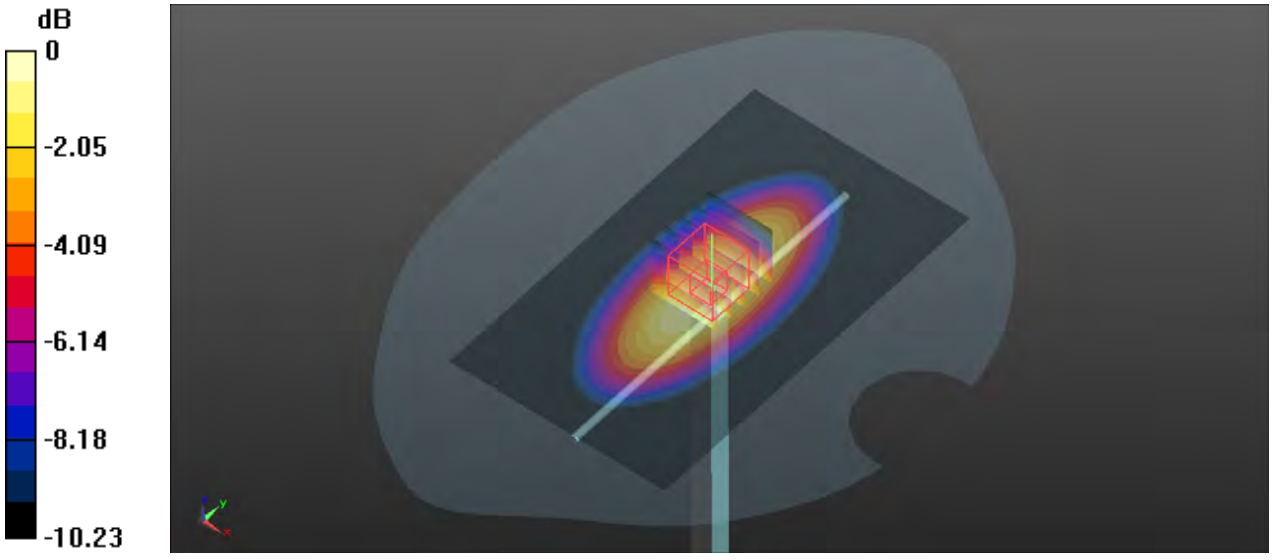
DUT: Dipole:835 MHz;Type:D835V2

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium: HSL835_0920 Medium parameters used: f = 835 MHz; σ = 0.906 S/m; ε_r = 41.947; ρ = 1000 kg/m^3
Ambient Temperature：23.6℃； Liquid Temperature：22.5℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(9.93, 9.93, 9.93) @ 835 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=250mW/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 3.00 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 59.48 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 3.61 W/kg
SAR(1 g) = 2.48 W/kg; SAR(10 g) = 1.63 W/kg
Smallest distance from peaks to all points 3 dB below = 16 mm
Ratio of SAR at M2 to SAR at M1 = 68.7%
Maximum value of SAR (measured) = 3.11 W/kg



0 dB = 3.11 W/kg

Test Laboratory: BV 7LAYERS SAR/HAC Testing Lab Date: 2024/09/21

System Check_HSL835_20240921

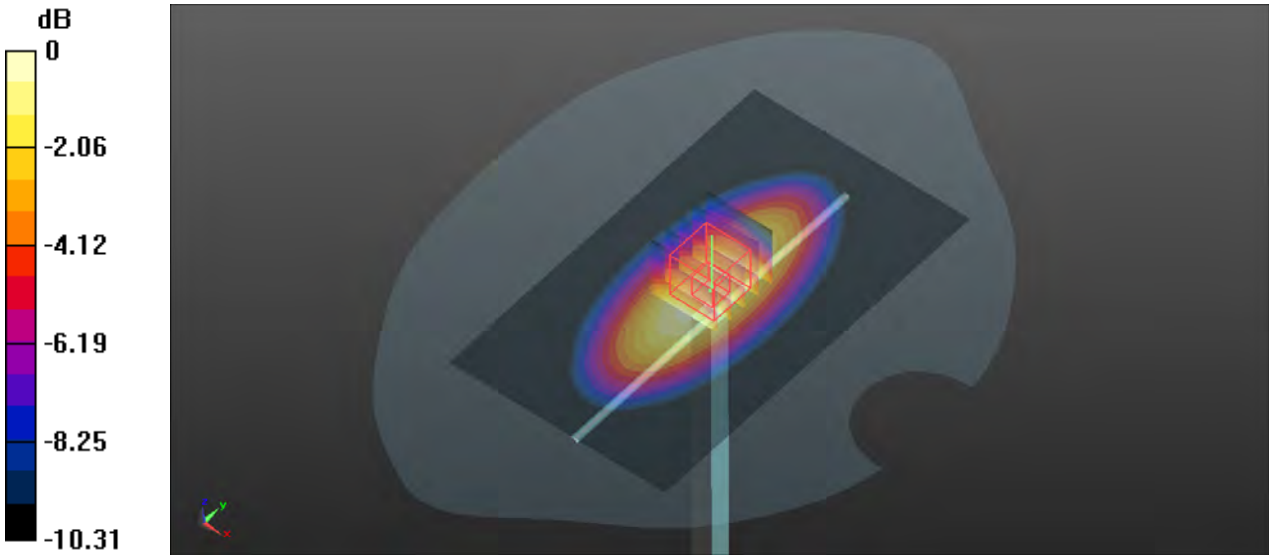
DUT: Dipole:835 MHz;Type:D835V2

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium: HSL835_0921 Medium parameters used: f = 835 MHz; σ = 0.889 S/m; ε_r = 40.759; ρ = 1000 kg/m^3
Ambient Temperature：23.4℃； Liquid Temperature：22.5℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(9.93, 9.93, 9.93) @ 835 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=250mW/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.91 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 59.12 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 3.46 W/kg
SAR(1 g) = 2.37 W/kg; SAR(10 g) = 1.58 W/kg
Smallest distance from peaks to all points 3 dB below = 17.2 mm
Ratio of SAR at M2 to SAR at M1 = 67.7%
Maximum value of SAR (measured) = 2.98 W/kg



0 dB = 2.98 W/kg

Test Laboratory: BV 7LAYERS SAR/HAC Testing Lab Date: 2024/09/22

System Check_HSL1750_20240922

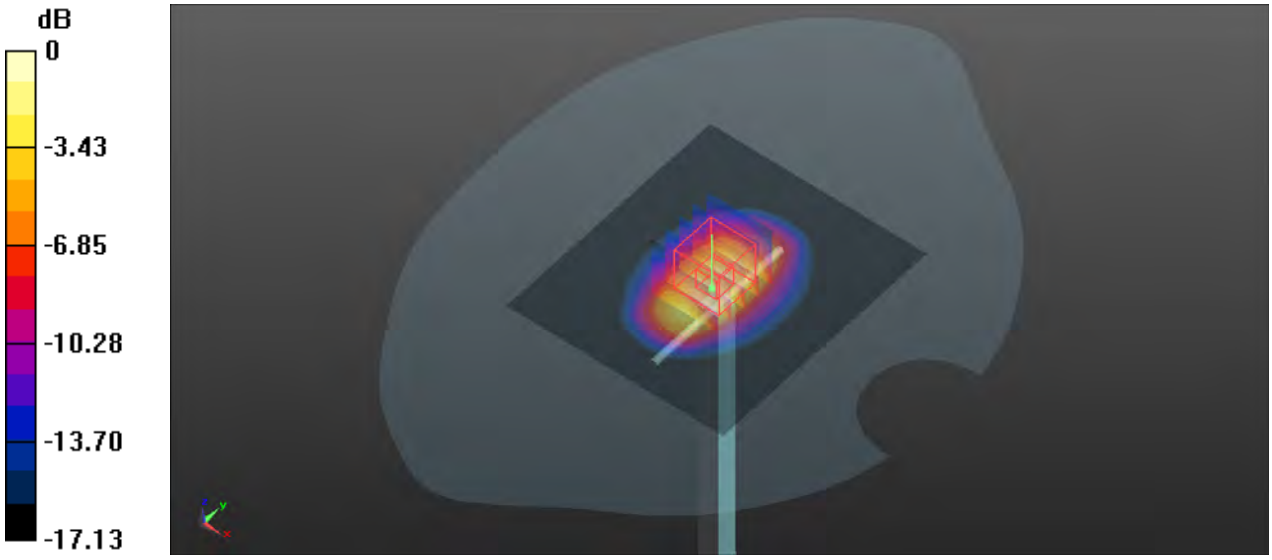
DUT: Dipole:1750 MHz;Type:D1750V2

Communication System: CW; Frequency: 1750 MHz;Duty Cycle: 1:1
Medium: HSL1750_0922 Medium parameters used: f = 1750 MHz; σ = 1.355 S/m; ε_r = 40.368; ρ = 1000 kg/m^3
Ambient Temperature：23.6℃； Liquid Temperature：22.7℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(8.51, 8.51, 8.51) @ 1750 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=250mW/Area Scan (71x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 13.4 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 99.87 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 14.6 W/kg
SAR(1 g) = 8.37 W/kg; SAR(10 g) = 4.51 W/kg
Smallest distance from peaks to all points 3 dB below = 9.6 mm
Ratio of SAR at M2 to SAR at M1 = 56.5%
Maximum value of SAR (measured) = 12.4 W/kg



0 dB = 12.4 W/kg

Test Laboratory: BV 7LAYERS SAR/HAC Testing Lab Date: 2024/09/01

System Check_HSL1900_20240901

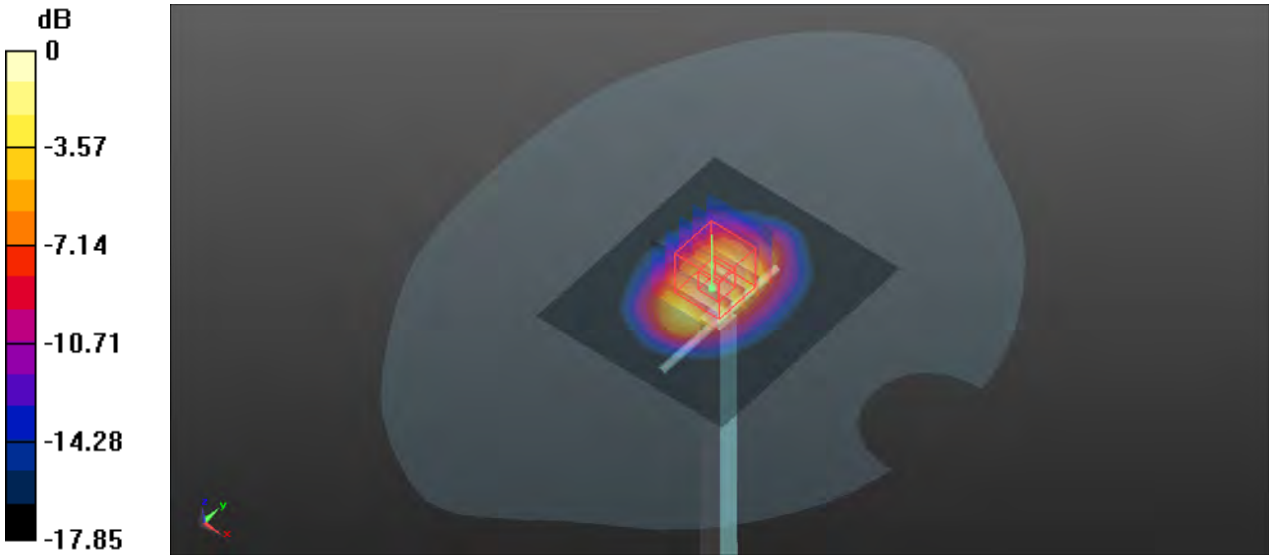
DUT: Dipole:1900MHz;Type:D1900V2

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: HSL1900_0901 Medium parameters used: f = 1900 MHz; σ = 1.438 S/m; ε_r = 40.253; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃； Liquid Temperature：22.5℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(8.16, 8.16, 8.16) @ 1900 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=250mW/Area Scan (61x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 14.3 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 95.27 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 17.1 W/kg
SAR(1 g) = 9.43 W/kg; SAR(10 g) = 4.94 W/kg
Smallest distance from peaks to all points 3 dB below = 9.6 mm
Ratio of SAR at M2 to SAR at M1 = 55.7%
Maximum value of SAR (measured) = 13.4 W/kg



0 dB = 13.4 W/kg

Test Laboratory: BV 7LAYERS SAR/HAC Testing Lab Date: 2024/09/02

System Check_HSL1900_20240902

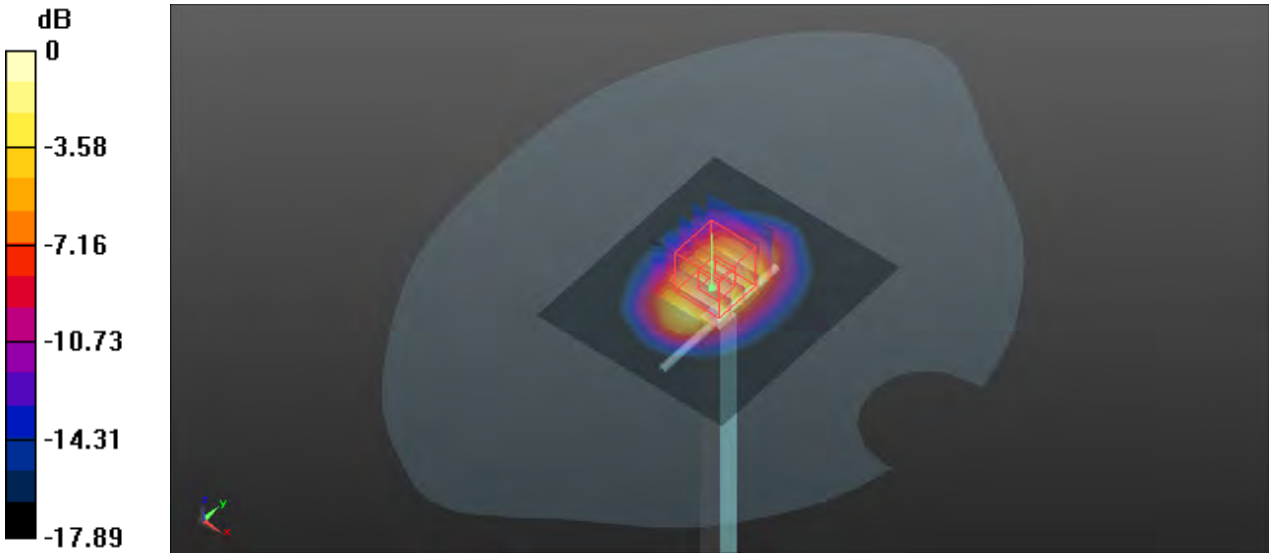
DUT: Dipole:1900MHz;Type:D1900V2

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: HSL1900_0902 Medium parameters used: f = 1900 MHz; σ = 1.373 S/m; ε_r = 40.271; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃； Liquid Temperature：22.7℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(8.16, 8.16, 8.16) @ 1900 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=250mW/Area Scan (61x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 13.7 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 95.37 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 16.4 W/kg
SAR(1 g) = 9.16 W/kg; SAR(10 g) = 4.82 W/kg
Smallest distance from peaks to all points 3 dB below = 9.6 mm
Ratio of SAR at M2 to SAR at M1 = 55.7%
Maximum value of SAR (measured) = 12.9 W/kg



0 dB = 12.9 W/kg

Test Laboratory: BV 7LAYERS SAR/HAC Testing Lab Date: 2024/09/03

System Check_HSL2450_20240903

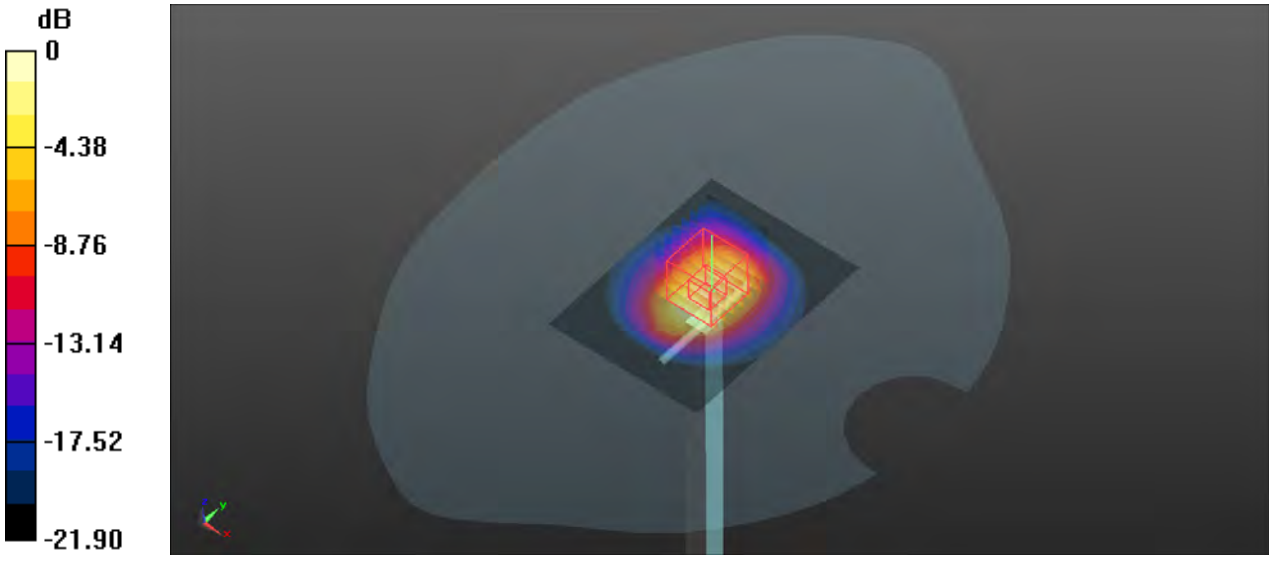
DUT: Dipole:2450 MHz;Type:D2450V2

Communication System: CW; Frequency: 2450 MHz;Duty Cycle: 1:1
Medium: HSL2450_0903 Medium parameters used: f = 2450 MHz; σ = 1.858 S/m; ε_r = 38.545; ρ = 1000 kg/m^3
Ambient Temperature：23.6℃； Liquid Temperature：22.7℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(7.79, 7.79, 7.79) @ 2450 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=250mW/Area Scan (61x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 19.6 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 108.7 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 24.8 W/kg
SAR(1 g) = 12.5 W/kg; SAR(10 g) = 5.9 W/kg
Smallest distance from peaks to all points 3 dB below = 9 mm
Ratio of SAR at M2 to SAR at M1 = 51.6%
Maximum value of SAR (measured) = 18.7 W/kg



0 dB = 18.7 W/kg

Test Laboratory: BV 7LAYERS SAR/HAC Testing Lab Date: 2024/09/23

System Check_HSL2600_20240923

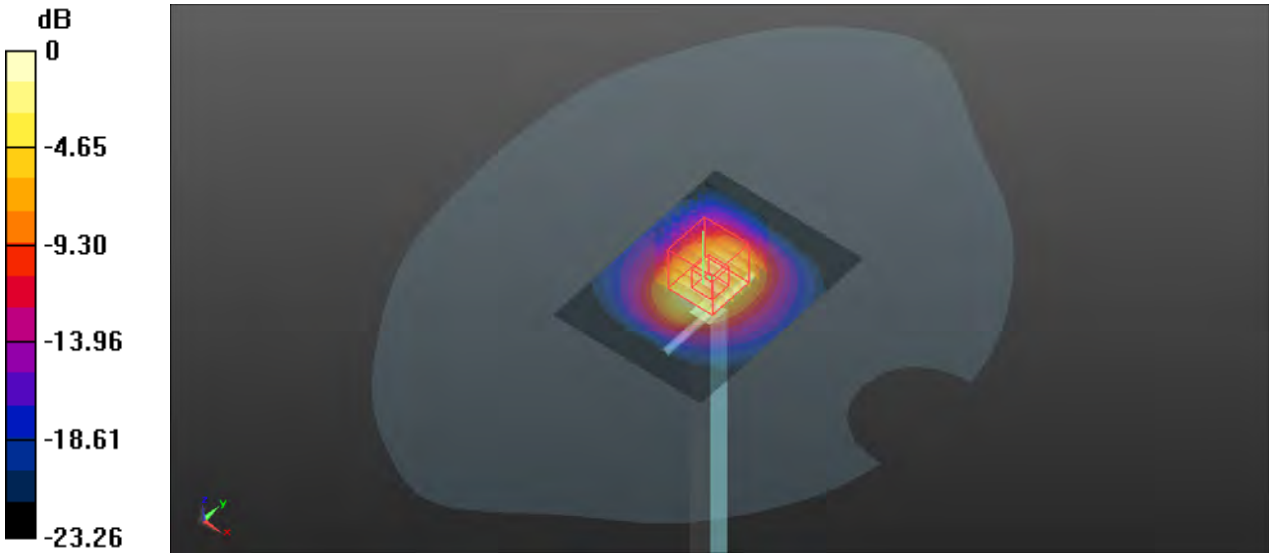
DUT: Dipole:2600 MHz;Type:D2600V2

Communication System: CW; Frequency: 2600 MHz;Duty Cycle: 1:1
Medium: HSL2600_0923 Medium parameters used: f = 2600 MHz; σ = 2.053 S/m; ε_r = 37.984; ρ = 1000 kg/m^3
Ambient Temperature：23.7℃； Liquid Temperature：22.4℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(7.64, 7.64, 7.64) @ 2600 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=250mW/Area Scan (61x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 24.2 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 119.9 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 30.5 W/kg
SAR(1 g) = 14.6 W/kg; SAR(10 g) = 6.73 W/kg
Smallest distance from peaks to all points 3 dB below = 9 mm
Ratio of SAR at M2 to SAR at M1 = 48.4%
Maximum value of SAR (measured) = 22.0 W/kg



0 dB = 22.0 W/kg

Test Laboratory: BV 7LAYERS SAR/HAC Testing Lab Date: 2024/10/18

System Check_HSL2600_20241018

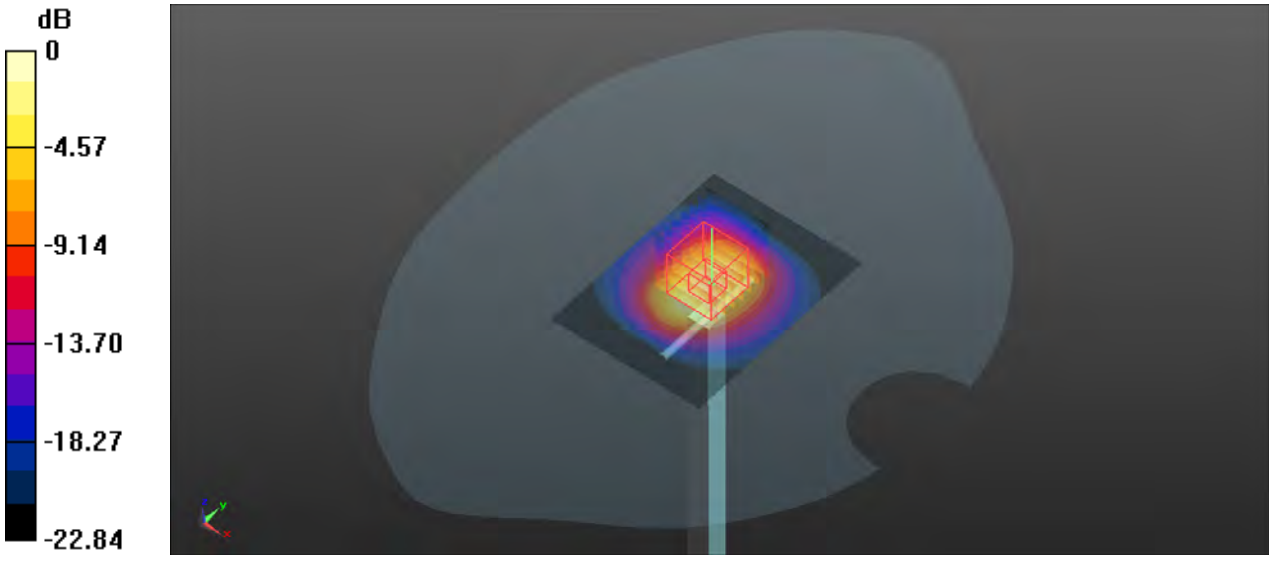
DUT: Dipole:2600 MHz;Type:D2600V2

Communication System: CW; Frequency: 2600 MHz;Duty Cycle: 1:1
Medium: HSL2600_1018 Medium parameters used: f = 2600 MHz; σ = 1.934 S/m; ε_r = 39.04; ρ = 1000 kg/m^3
Ambient Temperature：23.7℃； Liquid Temperature：22.6℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(7.64, 7.64, 7.64) @ 2600 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=250mW/Area Scan (61x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 22.6 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 110.4 V/m; Power Drift = -0.19 dB
Peak SAR (extrapolated) = 26.3 W/kg
SAR(1 g) = 13.1 W/kg; SAR(10 g) = 5.89 W/kg
Smallest distance from peaks to all points 3 dB below = 9.2 mm
Ratio of SAR at M2 to SAR at M1 = 49.3%
Maximum value of SAR (measured) = 20.4 W/kg



0 dB = 20.4 W/kg

Test Laboratory: BV 7LAYERS SAR/HAC Testing Lab Date: 2024/09/24

System Check_HSL5250_20240924

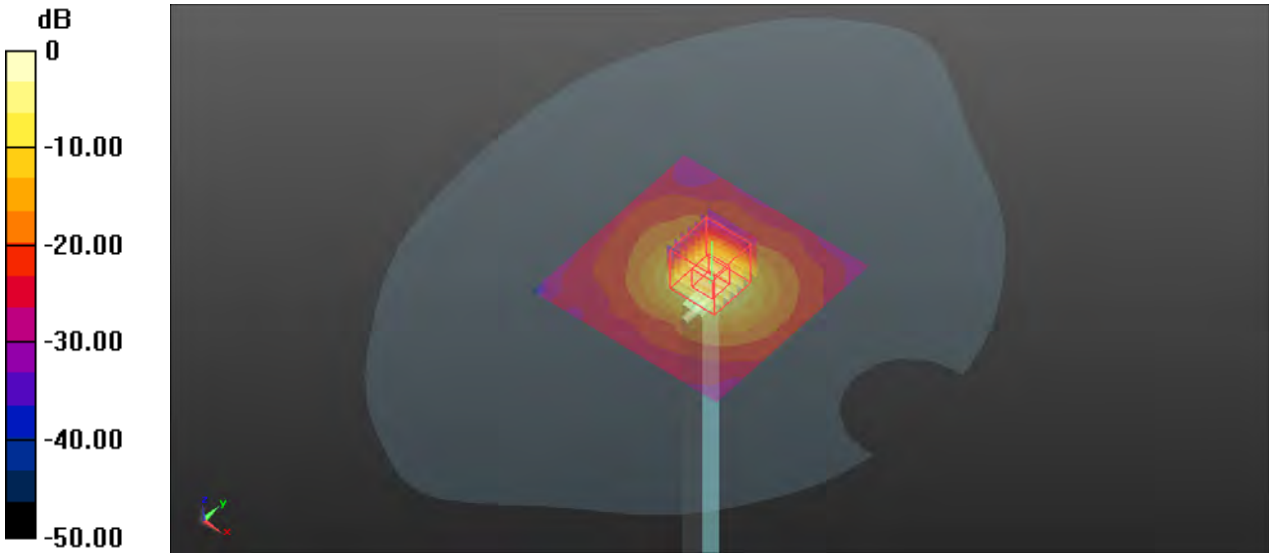
DUT: Dipole 5GHzV2;Type:D5GHzV2

Communication System: CW; Frequency: 5250 MHz;Duty Cycle: 1:1
Medium: HSL5G_0924 Medium parameters used: f = 5250 MHz; σ = 4.563 S/m; ε_r = 35.226; ρ = 1000 kg/m^3
Ambient Temperature：23.6℃； Liquid Temperature：22.6℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(5.52, 5.52, 5.52) @ 5250 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

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 = 56.52 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 31.1 W/kg
SAR(1 g) = 7.37 W/kg; SAR(10 g) = 2.1 W/kg
Smallest distance from peaks to all points 3 dB below = 6.8 mm
Ratio of SAR at M2 to SAR at M1 = 55.8%
Maximum value of SAR (measured) = 14.6 W/kg



0 dB = 14.6 W/kg

Test Laboratory: BV 7LAYERS SAR/HAC Testing Lab Date: 2024/09/25

System Check_HSL5250_20240925

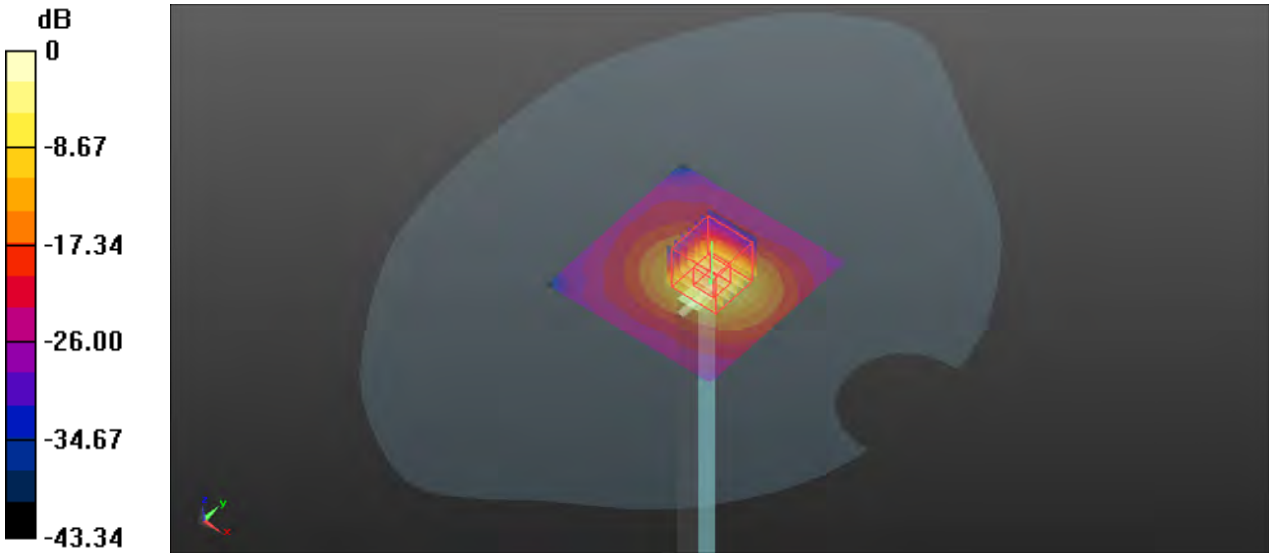
DUT: Dipole 5GHzV2;Type:D5GHzV2

Communication System: CW; Frequency: 5250 MHz;Duty Cycle: 1:1
Medium: HSL5G_0925 Medium parameters used: f = 5250 MHz; σ = 4.558 S/m; ε_r = 35.217; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃； Liquid Temperature：22.4℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(5.52, 5.52, 5.52) @ 5250 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=100mW/Area Scan (81x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 14.2 W/kg

Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 46.74 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 29.2 W/kg
SAR(1 g) = 7.47 W/kg; SAR(10 g) = 2.14 W/kg
Smallest distance from peaks to all points 3 dB below = 7.2 mm
Ratio of SAR at M2 to SAR at M1 = 56.4%
Maximum value of SAR (measured) = 15.3 W/kg



0 dB = 15.3 W/kg

Test Laboratory: BV 7LAYERS SAR/HAC Testing Lab Date: 2024/09/25

System Check_HSL5800_20240925

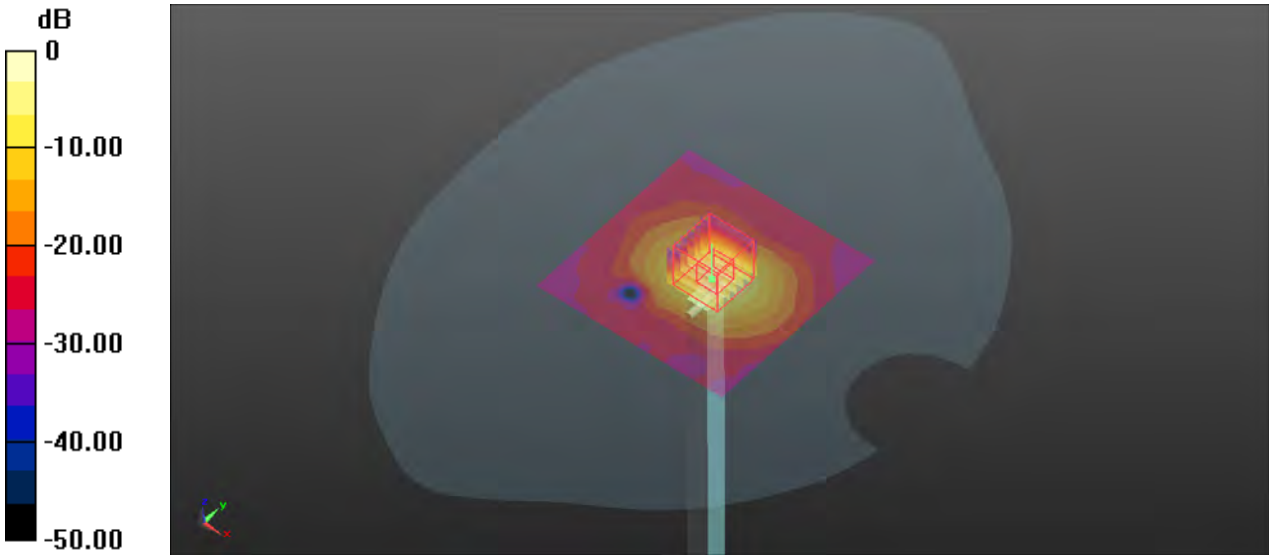
DUT: Dipole 5GHzV2;Type:D5GHzV2

Communication System: CW; Frequency: 5800 MHz;Duty Cycle: 1:1
Medium: HSL5G_0925 Medium parameters used: f = 5800 MHz; σ = 5.174 S/m; ε_r = 34.422; ρ = 1000 kg/m^3
Ambient Temperature：23.6℃； Liquid Temperature：22.4℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(5.05, 5.05, 5.05) @ 5800 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 14.2 W/kg

Pin=100mW/Zoom Scan (7x7x11)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 61.24 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 32.8 W/kg
SAR(1 g) = 7.26 W/kg; SAR(10 g) = 2.03 W/kg
Smallest distance from peaks to all points 3 dB below = 7.9 mm
Ratio of SAR at M2 to SAR at M1 = 52.9%
Maximum value of SAR (measured) = 15.6 W/kg



0 dB = 15.6 W/kg

Appendix B. SAR Plots of SAR Measurement

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

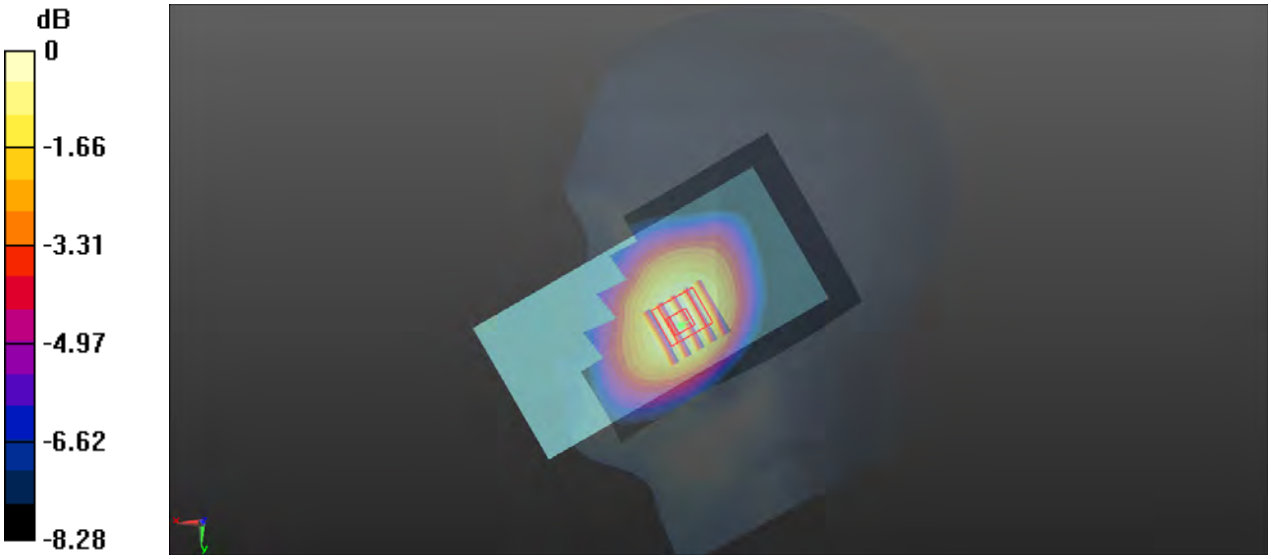
P01 GSM850_GPRS 3Tx Slot_Right Cheek_Ch128

Communication System: GPRS 3Tx-slot; Frequency: 824.2 MHz;Duty Cycle: 1:2.77
Medium: HSL835_0920 Medium parameters used: f = 824.2 MHz; σ = 0.899 S/m; ε_r = 42.027; ρ = 1000 kg/m^3
Ambient Temperature：23.4℃； Liquid Temperature：22.5℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(9.93, 9.93, 9.93) @ 824.2 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.595 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.188 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.700 W/kg
SAR(1 g) = 0.572 W/kg; SAR(10 g) = 0.445 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 82.4%
Maximum value of SAR (measured) = 0.597 W/kg



0 dB = 0.597 W/kg

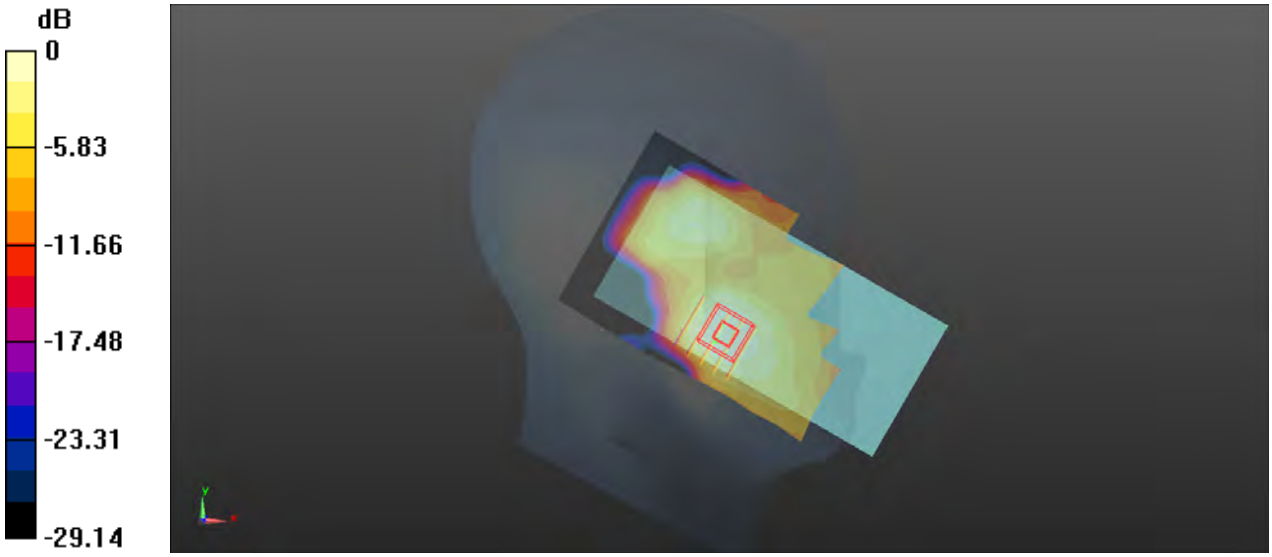
P02 GSM1900_GPRS 4Tx Slot_Left Cheek_Ch661

Communication System: GPRS 4Tx-slot; Frequency: 1880 MHz;Duty Cycle: 1:2.08
Medium: HSL1900_0901 Medium parameters used: f = 1880 MHz; σ = 1.416 S/m; ε_r = 40.275; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃； Liquid Temperature：22.5℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(8.16, 8.16, 8.16) @ 1880 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.185 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.426 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.257 W/kg
SAR(1 g) = 0.171 W/kg; SAR(10 g) = 0.105 W/kg
Smallest distance from peaks to all points 3 dB below = 14.4 mm
Ratio of SAR at M2 to SAR at M1 = 70.4%
Maximum value of SAR (measured) = 0.179 W/kg



0 dB = 0.179 W/kg

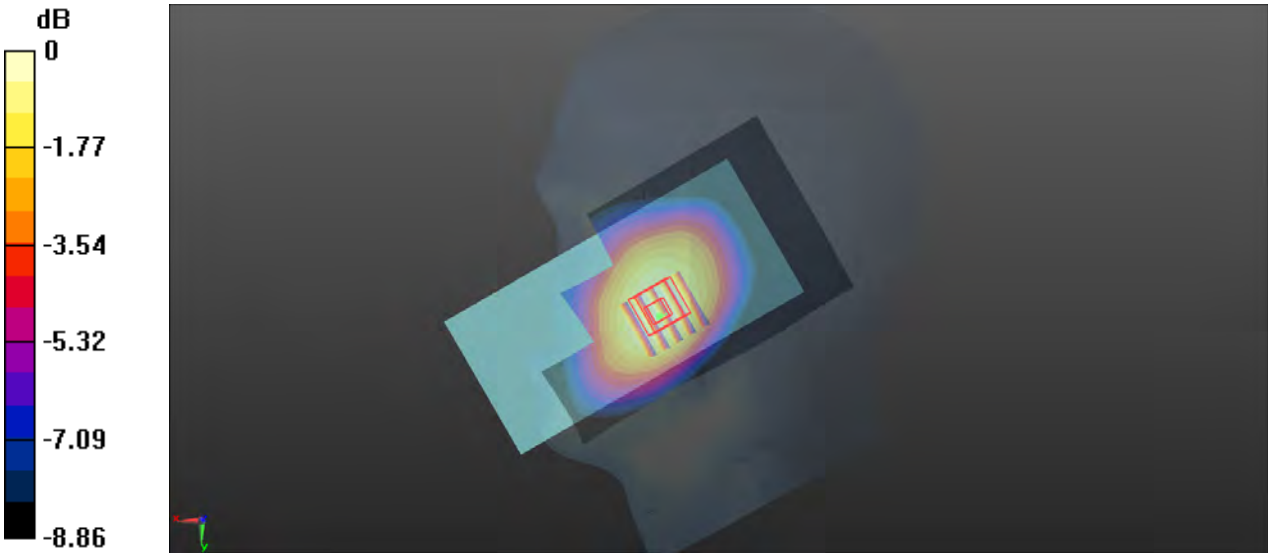
P03 CDMA BC0_RC3+SO55_Right Cheek_Ch777

Communication System: CDMA2000; Frequency: 848.31 MHz;Duty Cycle: 1:1
Medium: HSL835_0920 Medium parameters used: f = 848.31 MHz; σ = 0.915 S/m; ε_r = 41.856; ρ = 1000 kg/m^3
Ambient Temperature：23.6℃； Liquid Temperature：22.5℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(9.93, 9.93, 9.93) @ 848.31 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.331 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.645 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 0.393 W/kg
SAR(1 g) = 0.319 W/kg; SAR(10 g) = 0.248 W/kg
Smallest distance from peaks to all points 3 dB below = 23.6 mm
Ratio of SAR at M2 to SAR at M1 = 81.3%
Maximum value of SAR (measured) = 0.334 W/kg



0 dB = 0.334 W/kg

Test Laboratory: BV 7LAYERS SAR/HAC Testing Lab Date: 2024/09/01

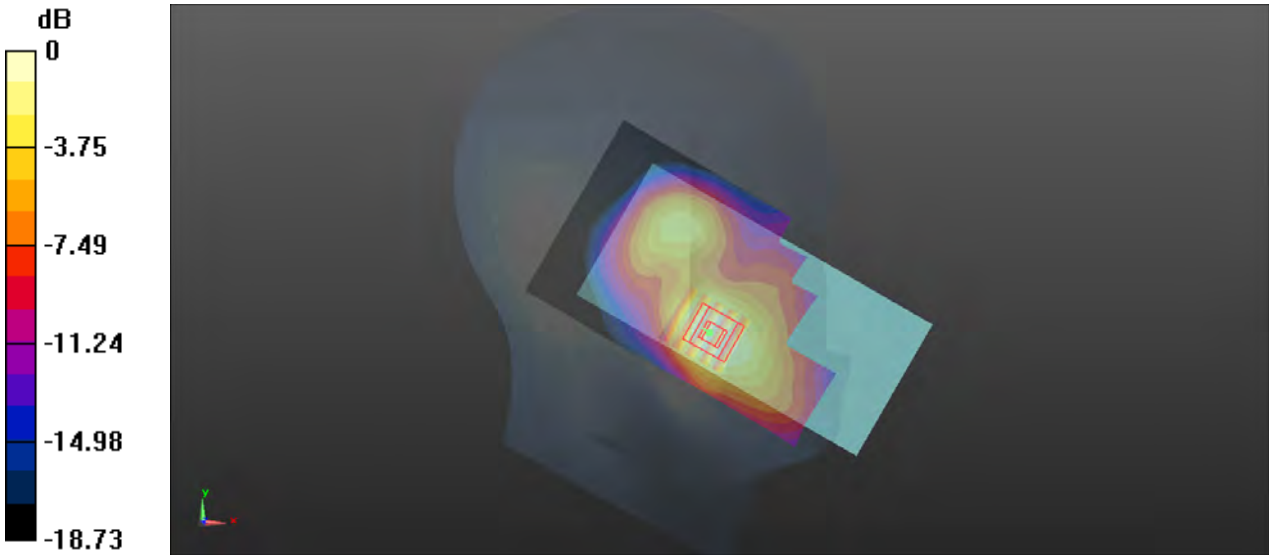
P04 CDMA BC1_RC3+SO55_Left Cheek_Ch600

Communication System: CDMA2000; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: HSL1900_0901 Medium parameters used: f = 1880 MHz; σ = 1.416 S/m; ε_r = 40.275; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃； Liquid Temperature：22.5℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(8.16, 8.16, 8.16) @ 1880 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.517 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.554 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.670 W/kg
SAR(1 g) = 0.454 W/kg; SAR(10 g) = 0.287 W/kg
Smallest distance from peaks to all points 3 dB below = 14.8 mm
Ratio of SAR at M2 to SAR at M1 = 70.3%
Maximum value of SAR (measured) = 0.492 W/kg



0 dB = 0.492 W/kg

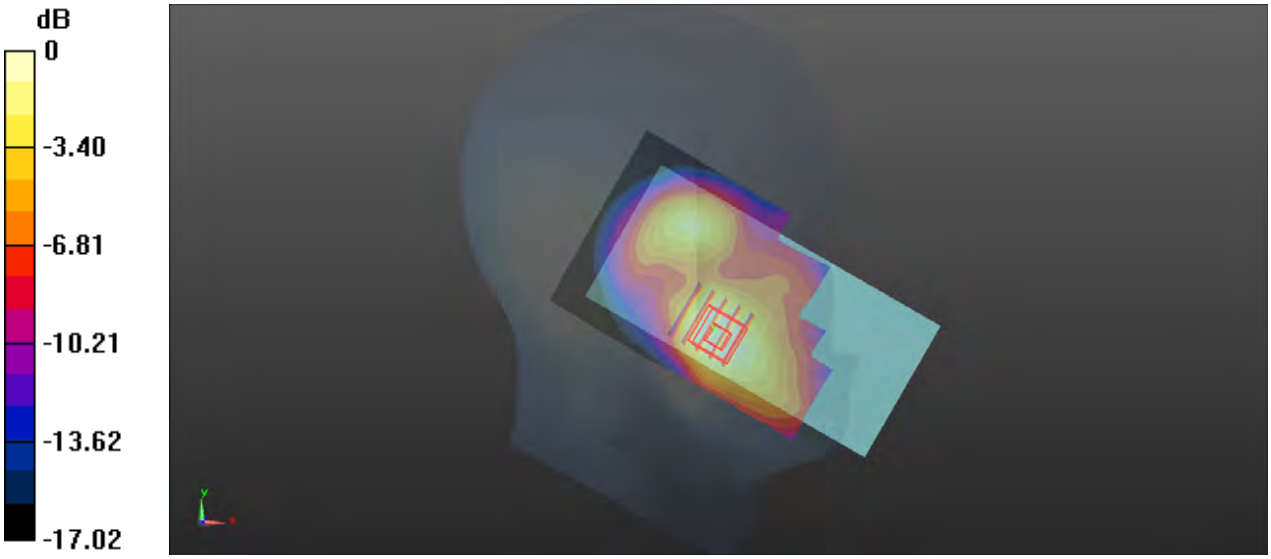
P05 WCDMA II_RMC12.2K_Left Cheek_Ch9400

Communication System: WCDMA; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: HSL1900_0901 Medium parameters used: f = 1880 MHz; σ = 1.416 S/m; ε_r = 40.275; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃； Liquid Temperature：22.5℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(8.16, 8.16, 8.16) @ 1880 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.459 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.264 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.605 W/kg
SAR(1 g) = 0.414 W/kg; SAR(10 g) = 0.264 W/kg
Smallest distance from peaks to all points 3 dB below = 14.5 mm
Ratio of SAR at M2 to SAR at M1 = 72.6%
Maximum value of SAR (measured) = 0.437 W/kg



0 dB = 0.437 W/kg

Test Laboratory: BV 7LAYERS SAR/HAC Testing Lab Date: 2024/09/22

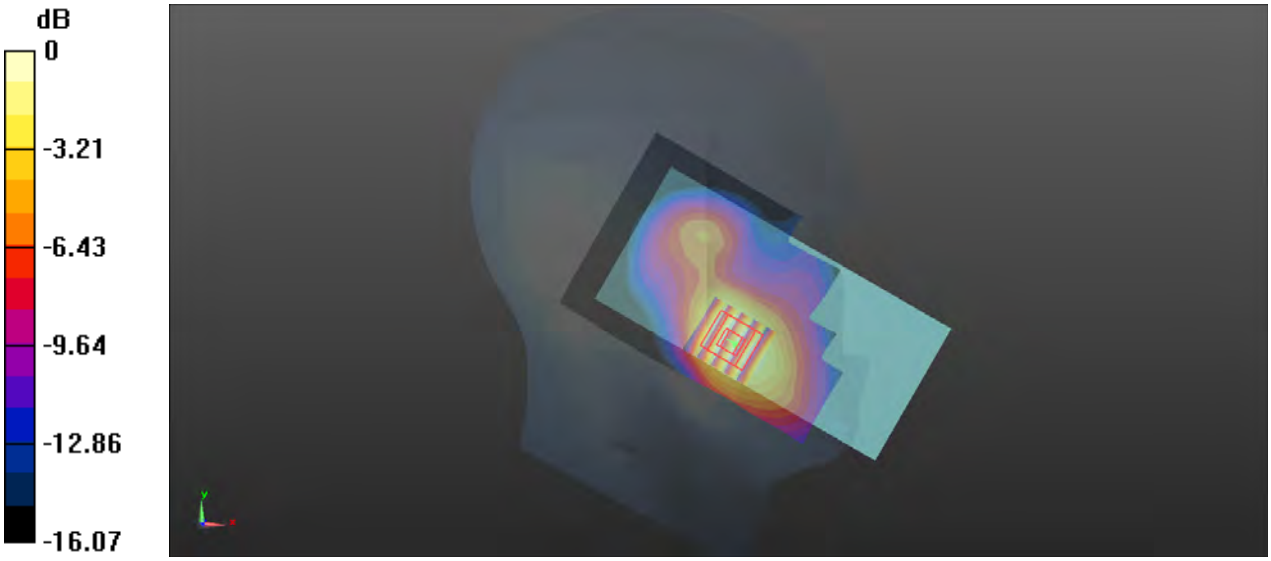
P06 WCDMA IV_RMC12.2K_Left Cheek_Ch1513

Communication System: WCDMA; Frequency: 1752.6 MHz;Duty Cycle: 1:1
Medium: HSL1750_0922 Medium parameters used: f = 1753 MHz; σ = 1.359 S/m; ε_r = 40.351; ρ = 1000 kg/m^3
Ambient Temperature：23.6℃； Liquid Temperature：22.7℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(8.51, 8.51, 8.51) @ 1752.6 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.637 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.431 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 0.848 W/kg
SAR(1 g) = 0.579 W/kg; SAR(10 g) = 0.369 W/kg
Smallest distance from peaks to all points 3 dB below = 13.8 mm
Ratio of SAR at M2 to SAR at M1 = 70.2%
Maximum value of SAR (measured) = 0.620 W/kg



0 dB = 0.620 W/kg

Test Laboratory: BV 7LAYERS SAR/HAC Testing Lab Date: 2024/09/20

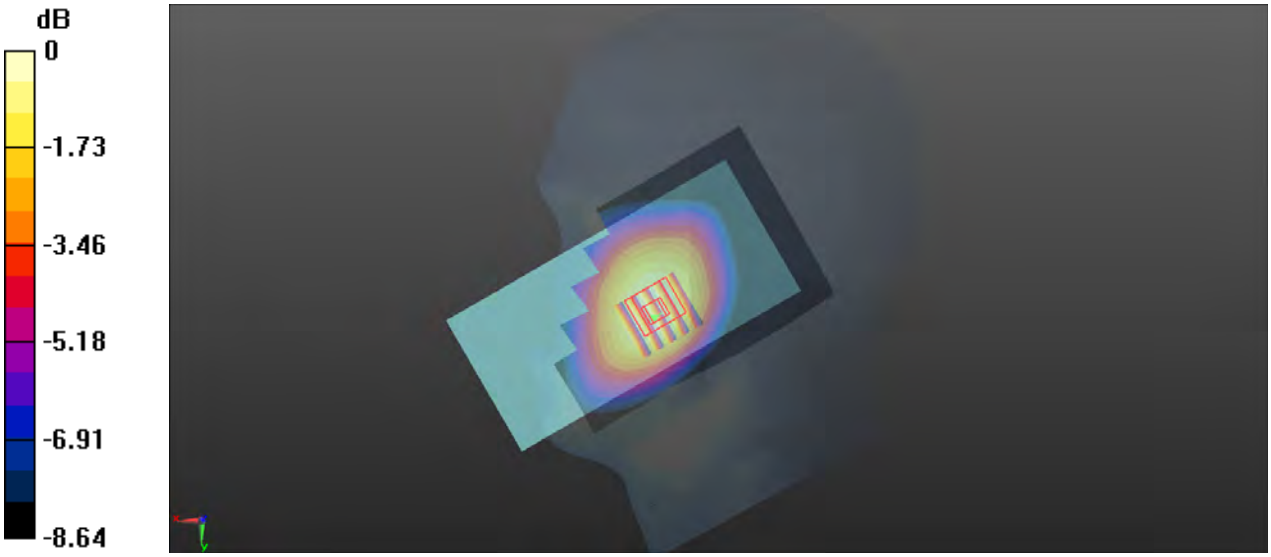
P07 WCDMA V_RMC12.2K_Right Cheek_Ch4233

Communication System: WCDMA; Frequency: 846.6 MHz;Duty Cycle: 1:1
Medium: HSL835_0920 Medium parameters used: f = 847 MHz; σ = 0.914 S/m; ε_r = 41.863; ρ = 1000 kg/m^3
Ambient Temperature：23.6℃； Liquid Temperature：22.5℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(9.93, 9.93, 9.93) @ 846.6 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.311 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.274 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.371 W/kg
SAR(1 g) = 0.300 W/kg; SAR(10 g) = 0.233 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 81.4%
Maximum value of SAR (measured) = 0.314 W/kg



0 dB = 0.314 W/kg

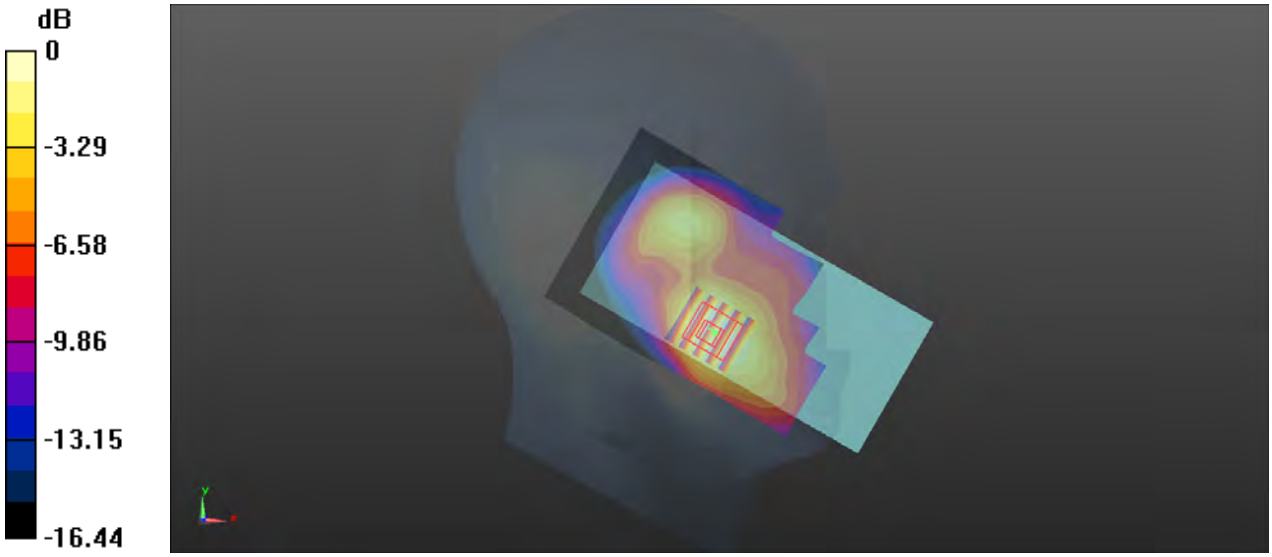
P08 LTE 2_QPSK20M_Left Cheek_Ch18700_1RB_OS50

Communication System: LTE; Frequency: 1860 MHz;Duty Cycle: 1:1
Medium: HSL1900_0901 Medium parameters used: f = 1860 MHz; σ = 1.403 S/m; ε_r = 40.3; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃； Liquid Temperature：22.5℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(8.16, 8.16, 8.16) @ 1860 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.387 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.801 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.522 W/kg
SAR(1 g) = 0.357 W/kg; SAR(10 g) = 0.226 W/kg
Smallest distance from peaks to all points 3 dB below = 13.8 mm
Ratio of SAR at M2 to SAR at M1 = 72.1%
Maximum value of SAR (measured) = 0.378 W/kg



0 dB = 0.378 W/kg

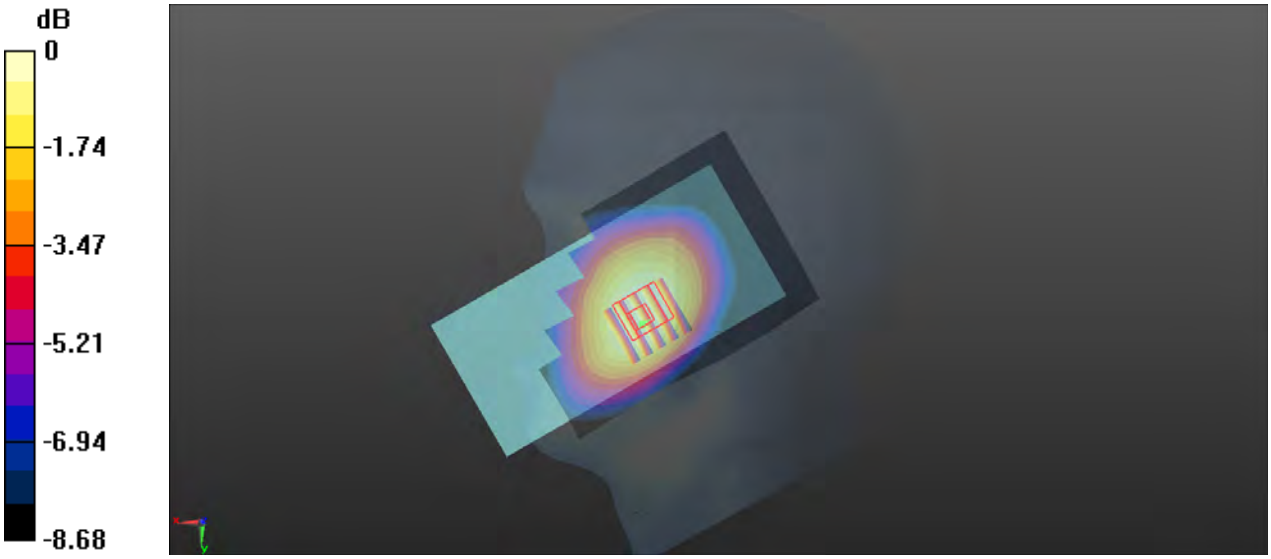
P09 LTE 5_QPSK10M_Right Cheek_Ch20450_1RB_OS24

Communication System: LTE; Frequency: 829 MHz;Duty Cycle: 1:1
Medium: HSL835_0920 Medium parameters used: f = 829 MHz; σ = 0.902 S/m; ε_r = 41.992; ρ = 1000 kg/m^3
Ambient Temperature：23.6℃； Liquid Temperature：22.5℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(9.93, 9.93, 9.93) @ 829 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.273 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.804 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.305 W/kg
SAR(1 g) = 0.247 W/kg; SAR(10 g) = 0.192 W/kg
Smallest distance from peaks to all points 3 dB below = 23.5 mm
Ratio of SAR at M2 to SAR at M1 = 80.7%
Maximum value of SAR (measured) = 0.259 W/kg



0 dB = 0.259 W/kg

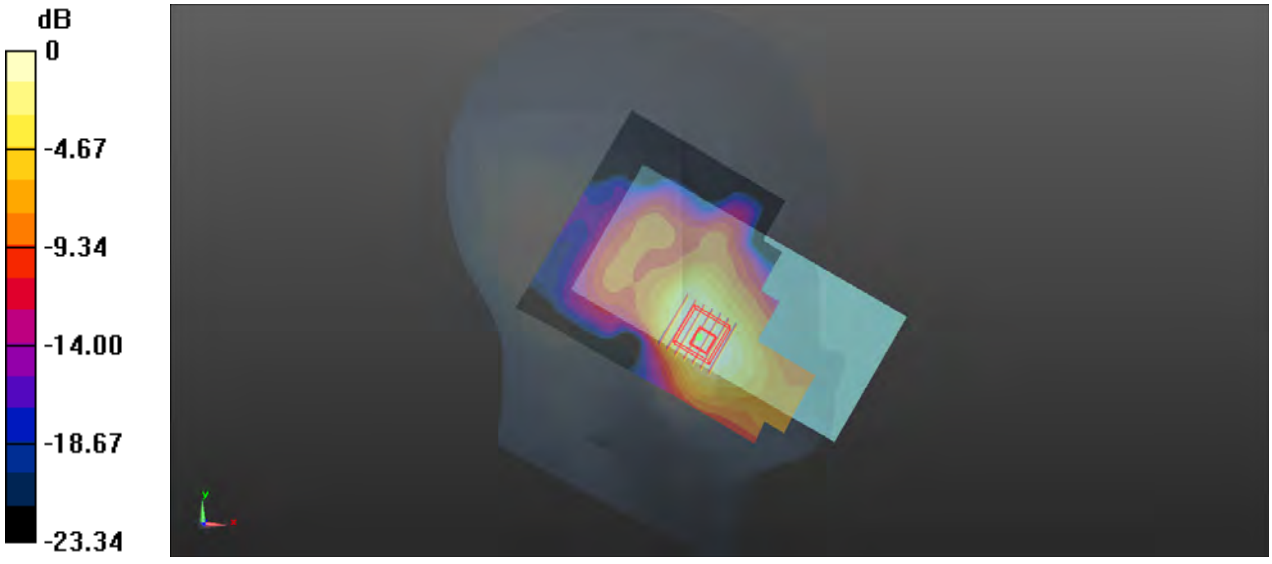
P10 LTE 7_QPSK20M_Left Cheek_Ch21350_1RB_OS50

Communication System: LTE; Frequency: 2560 MHz;Duty Cycle: 1:1
Medium: HSL2600_1018 Medium parameters used: f = 2560 MHz; σ = 1.903 S/m; ε_r = 39.108; ρ = 1000 kg/m^3
Ambient Temperature：23.7℃； Liquid Temperature：22.6℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(7.64, 7.64, 7.64) @ 2560 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- Area Scan (101x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.415 W/kg

- Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.392 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 0.624 W/kg
SAR(1 g) = 0.345 W/kg; SAR(10 g) = 0.192 W/kg
Smallest distance from peaks to all points 3 dB below = 13.4 mm
Ratio of SAR at M2 to SAR at M1 = 57.3%
Maximum value of SAR (measured) = 0.428 W/kg



0 dB = 0.428 W/kg

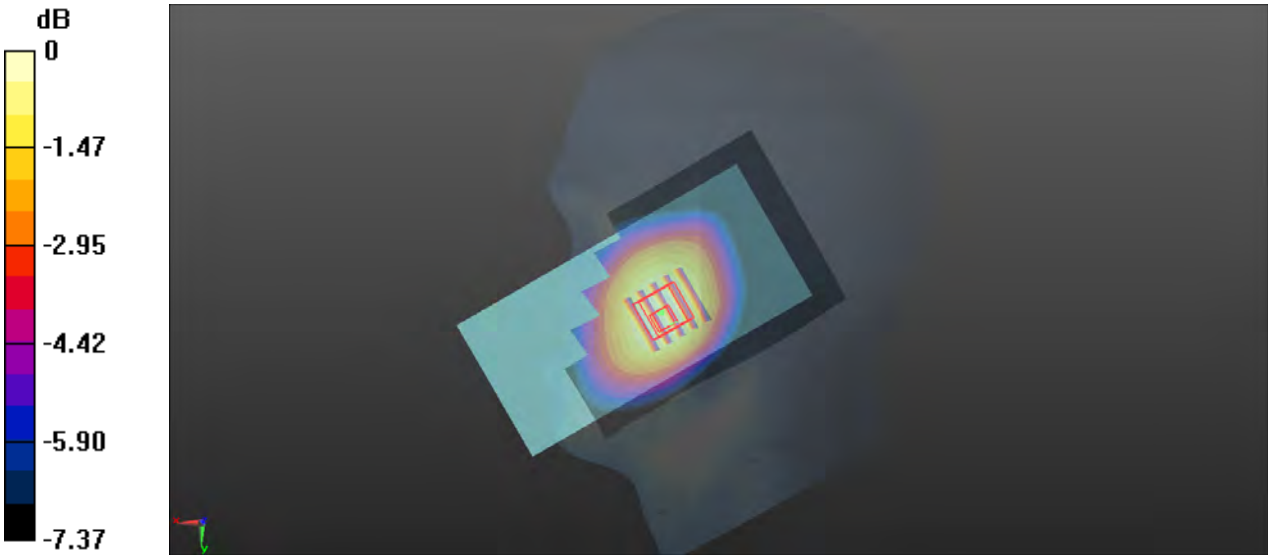
P11 LTE 12_QPSK10M_Right Cheek_Ch23095_1RB_OS0

Communication System: LTE; Frequency: 707.5 MHz;Duty Cycle: 1:1
Medium: HSL750_0919 Medium parameters used: f = 707.5 MHz; σ = 0.853 S/m; ε_r = 41.528; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃； Liquid Temperature：22.4℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(10.25, 10.25, 10.25) @ 707.5 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.141 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.959 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.170 W/kg
SAR(1 g) = 0.138 W/kg; SAR(10 g) = 0.109 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 80.6%
Maximum value of SAR (measured) = 0.144 W/kg



0 dB = 0.144 W/kg

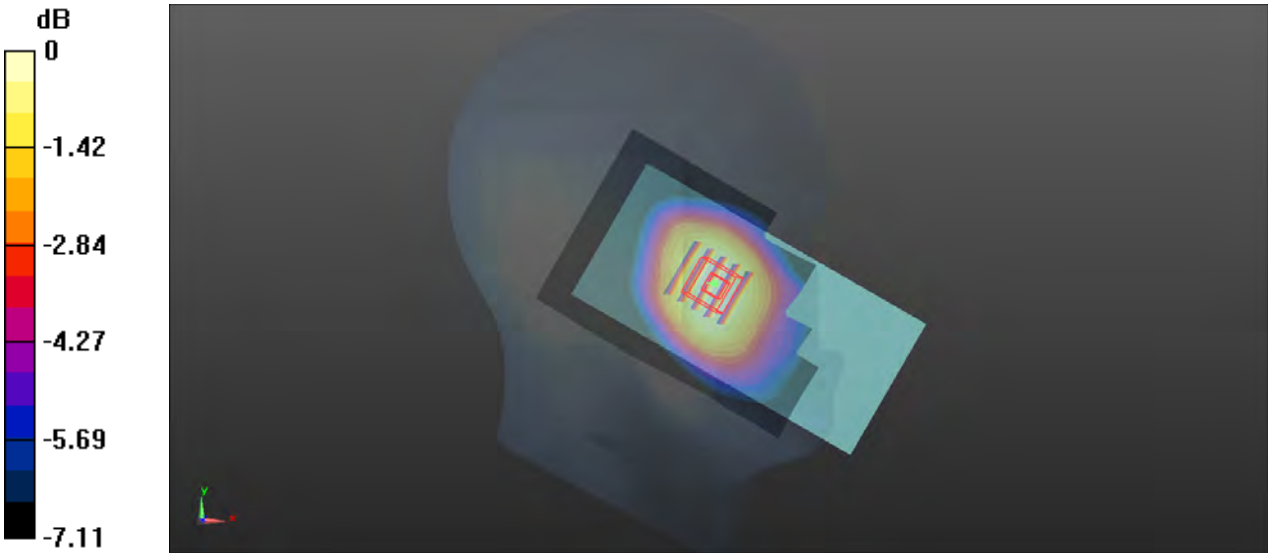
P12 LTE 13_QPSK10M_Left Cheek_Ch23230_1RB_OS0

Communication System: LTE; Frequency: 782 MHz;Duty Cycle: 1:1
Medium: HSL750_0919 Medium parameters used: f = 782 MHz; σ = 0.905 S/m; ε_r = 41.078; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃； Liquid Temperature：22.4℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(10.25, 10.25, 10.25) @ 782 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.148 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.702 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.164 W/kg
SAR(1 g) = 0.142 W/kg; SAR(10 g) = 0.114 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 85.4%
Maximum value of SAR (measured) = 0.149 W/kg



0 dB = 0.149 W/kg

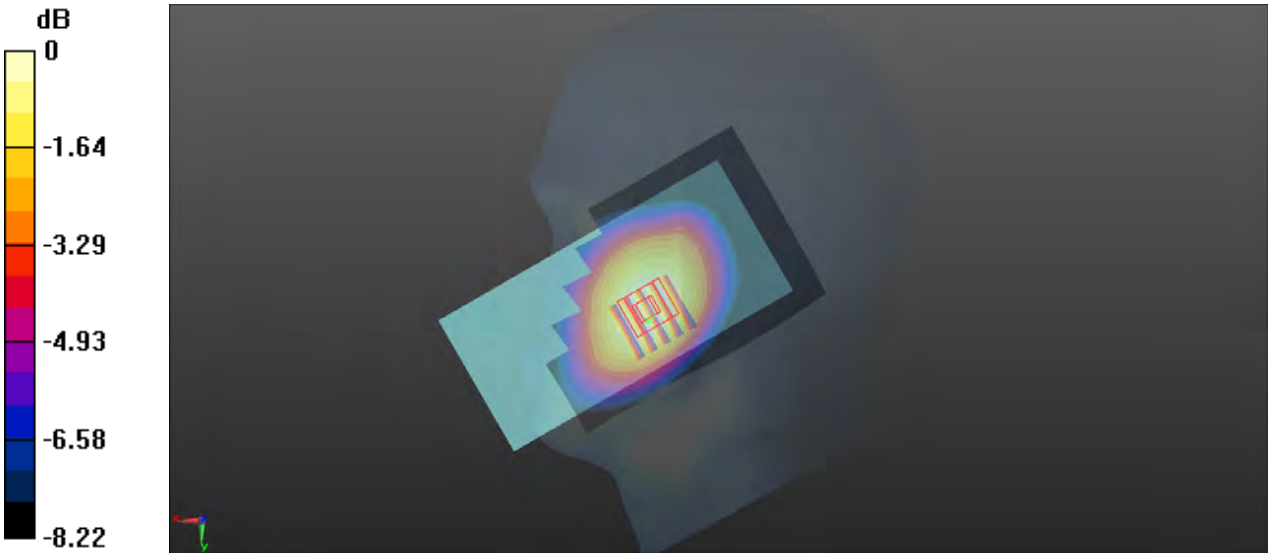
P13 LTE 14_QPSK10M_Right Cheek_Ch23330_1RB_OS0

Communication System: LTE; Frequency: 793 MHz;Duty Cycle: 1:1
Medium: HSL750_0919 Medium parameters used: f = 793 MHz; σ = 0.907 S/m; ε_r = 40.958; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃； Liquid Temperature：22.4℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(10.25, 10.25, 10.25) @ 793 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.159 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.881 V/m; Power Drift = -0.18 dB
Peak SAR (extrapolated) = 0.181 W/kg
SAR(1 g) = 0.148 W/kg; SAR(10 g) = 0.117 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 81%
Maximum value of SAR (measured) = 0.153 W/kg



0 dB = 0.153 W/kg

Test Laboratory: BV 7LAYERS SAR/HAC Testing Lab Date: 2024/09/23

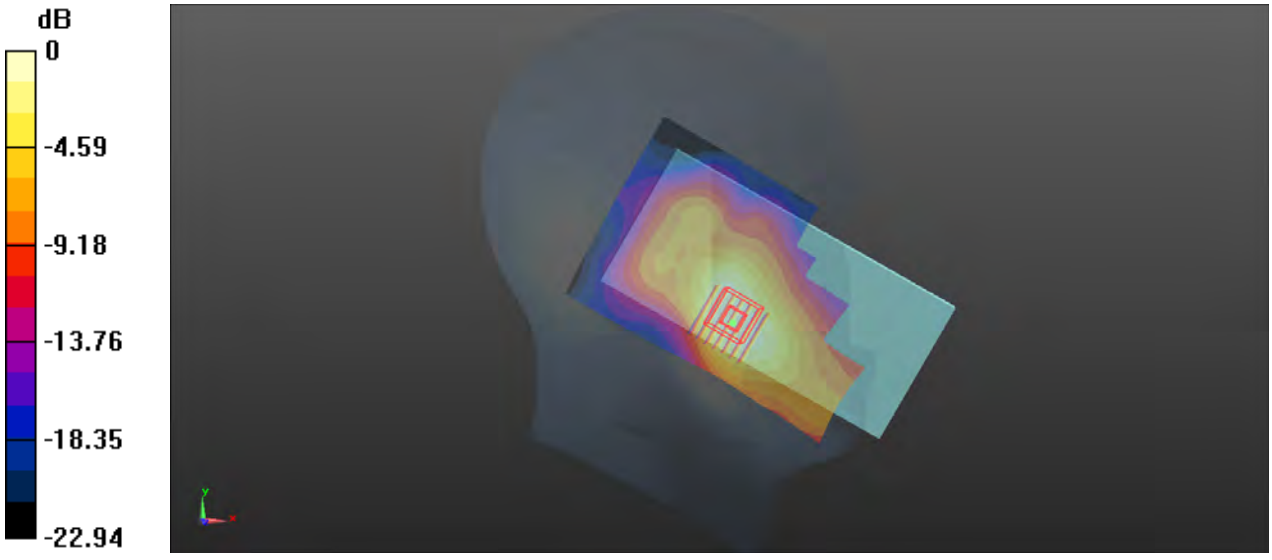
P14 LTE 41_QPSK20M_Left Cheek_Ch40620_1RB_OS50

Communication System: LTE TDD; Frequency: 2593 MHz;Duty Cycle: 1:1.59
Medium: HSL2600_0923 Medium parameters used: f = 2593 MHz; σ = 2.044 S/m; ε_r = 38.026; ρ = 1000 kg/m^3
Ambient Temperature：23.7℃； Liquid Temperature：22.4℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(7.64, 7.64, 7.64) @ 2593 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- Area Scan (91x131x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.414 W/kg

- Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.735 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.625 W/kg
SAR(1 g) = 0.370 W/kg; SAR(10 g) = 0.212 W/kg
Smallest distance from peaks to all points 3 dB below = 11.7 mm
Ratio of SAR at M2 to SAR at M1 = 59.5%
Maximum value of SAR (measured) = 0.400 W/kg



0 dB = 0.400 W/kg

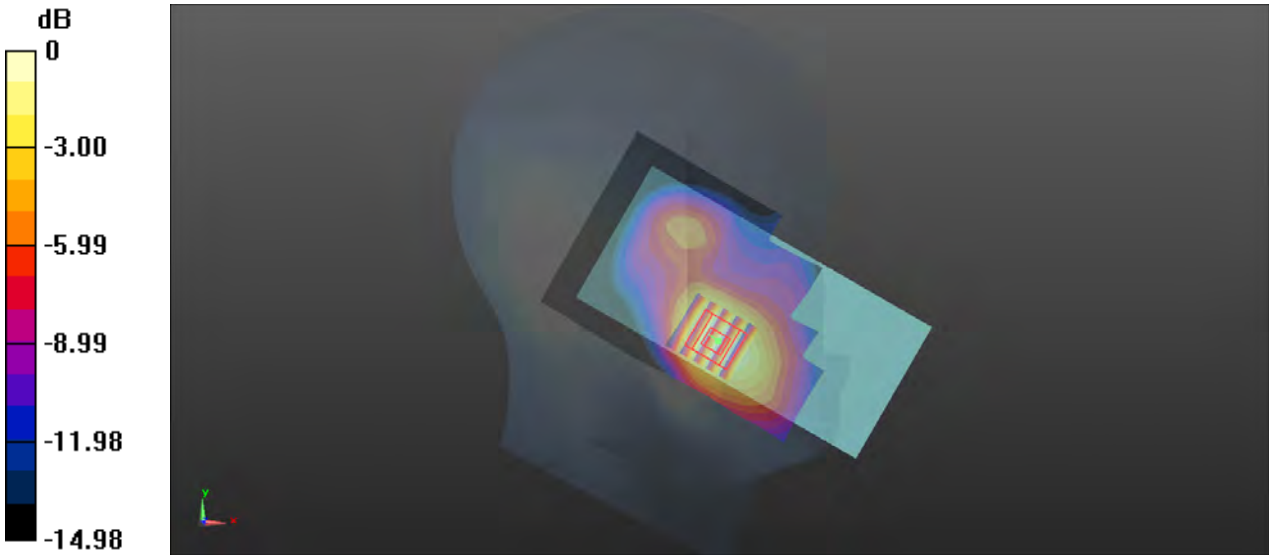
P15 LTE 66_QPSK20M_Left Cheek_Ch132072_1RB_OS99

Communication System: LTE; Frequency: 1720 MHz;Duty Cycle: 1:1
Medium: HSL1750_0922 Medium parameters used: f = 1720 MHz; σ = 1.325 S/m; ε_r = 40.479; ρ = 1000 kg/m^3
Ambient Temperature：23.6℃； Liquid Temperature：22.7℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(8.51, 8.51, 8.51) @ 1720 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.502 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.387 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.672 W/kg
SAR(1 g) = 0.458 W/kg; SAR(10 g) = 0.293 W/kg
Smallest distance from peaks to all points 3 dB below = 14.6 mm
Ratio of SAR at M2 to SAR at M1 = 70.7%
Maximum value of SAR (measured) = 0.496 W/kg



0 dB = 0.496 W/kg

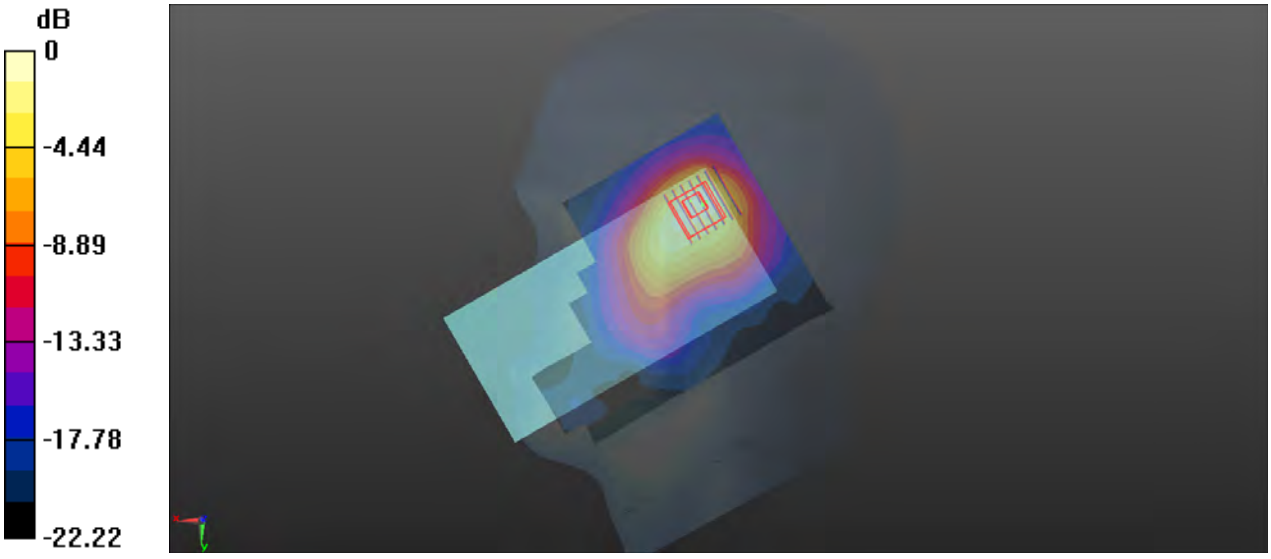
P16 WLAN2.4G_802.11b_Right Cheek_Ch11

Communication System: 802.11b; Frequency: 2462 MHz;Duty Cycle: 1:1.015
Medium: HSL2450_0903 Medium parameters used: f = 2462 MHz; σ = 1.867 S/m; ε_r = 38.484; ρ = 1000 kg/m^3
Ambient Temperature：23.6℃； Liquid Temperature：22.7℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(7.79, 7.79, 7.79) @ 2462 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- Area Scan (101x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.18 W/kg

- Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.72 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.57 W/kg
SAR(1 g) = 0.762 W/kg; SAR(10 g) = 0.382 W/kg
Smallest distance from peaks to all points 3 dB below = 8.9 mm
Ratio of SAR at M2 to SAR at M1 = 49.7%
Maximum value of SAR (measured) = 1.12 W/kg



0 dB = 1.12 W/kg

Test Laboratory: BV 7LAYERS SAR/HAC Testing Lab Date: 2024/09/25

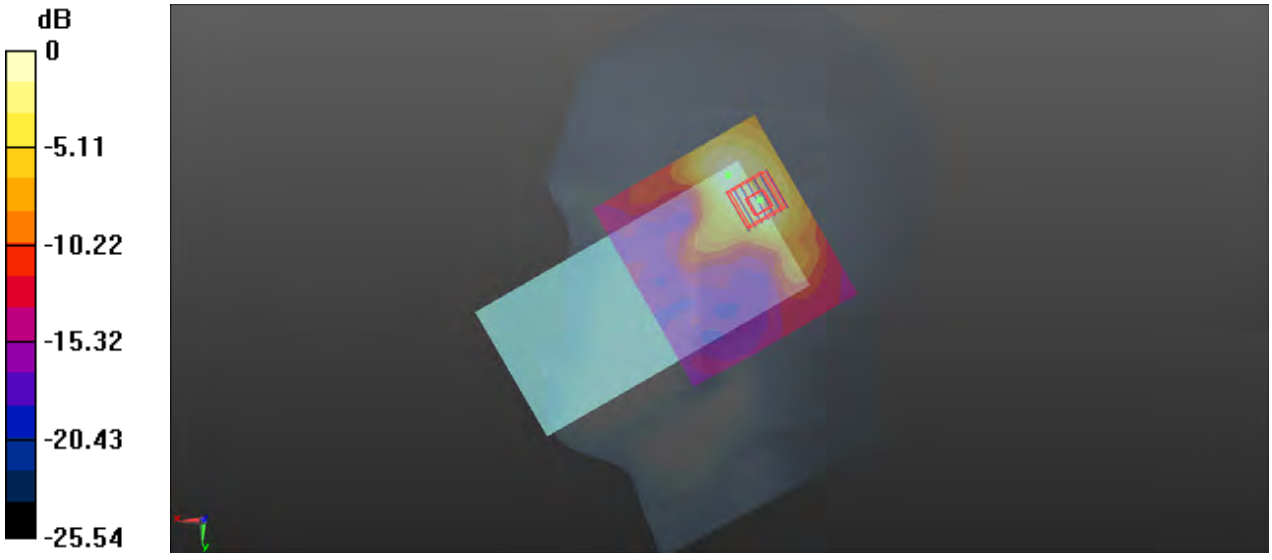
P17 WLAN5G_802.11a_Right Cheek_Ch52

Communication System: 802.11a; Frequency: 5260 MHz;Duty Cycle: 1:1.016
Medium: HSL5G_0925 Medium parameters used: f = 5260 MHz; σ = 4.583 S/m; ε_r = 35.142; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃； Liquid Temperature：22.4℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(5.52, 5.52, 5.52) @ 5260 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- Area Scan (111x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.697 W/kg

- Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 8.859 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 1.37 W/kg
SAR(1 g) = 0.363 W/kg; SAR(10 g) = 0.136 W/kg
Smallest distance from peaks to all points 3 dB below = 8.3 mm
Ratio of SAR at M2 to SAR at M1 = 55.3%
Maximum value of SAR (measured) = 0.686 W/kg



0 dB = 0.686 W/kg

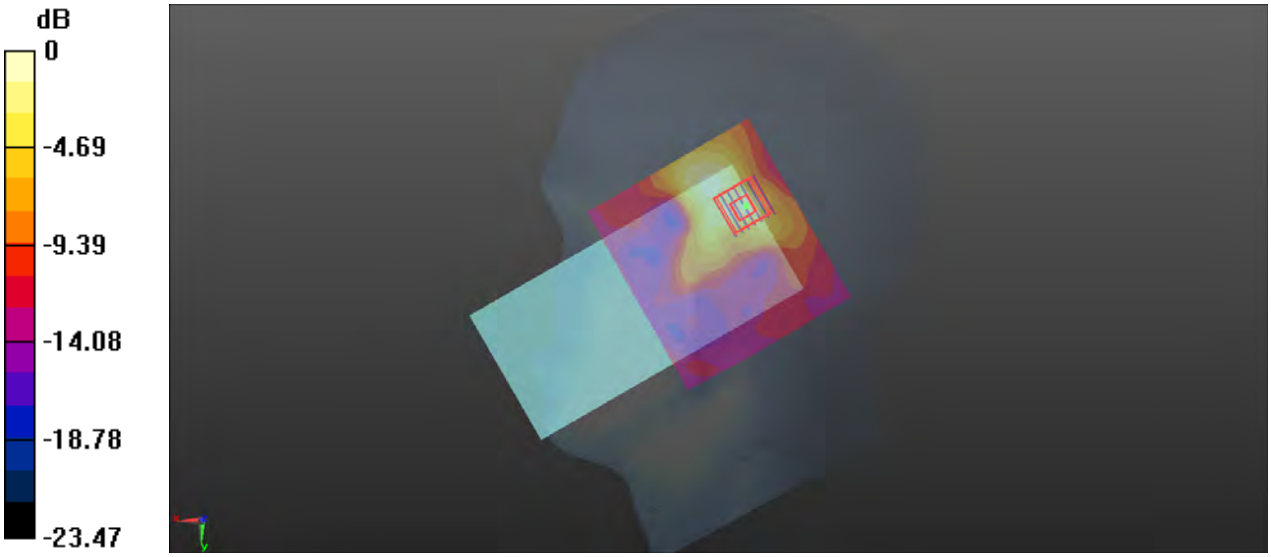
P18 WLAN5G_802.11a_Right Cheek_Ch157

Communication System: 802.11a; Frequency: 5785 MHz;Duty Cycle: 1:1.016
Medium: HSL5G_0925 Medium parameters used: f = 5785 MHz; σ = 5.162 S/m; ε_r = 34.395; ρ = 1000 kg/m^3
Ambient Temperature：23.6℃； Liquid Temperature：22.4℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(5.05, 5.05, 5.05) @ 5785 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- Area Scan (111x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.477 W/kg

- Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.657 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 1.06 W/kg
SAR(1 g) = 0.260 W/kg; SAR(10 g) = 0.087 W/kg
Smallest distance from peaks to all points 3 dB below = 7.5 mm
Ratio of SAR at M2 to SAR at M1 = 52.5%
Maximum value of SAR (measured) = 0.517 W/kg



0 dB = 0.517 W/kg

Test Laboratory: BV 7LAYERS SAR/HAC Testing Lab Date: 2024/09/03

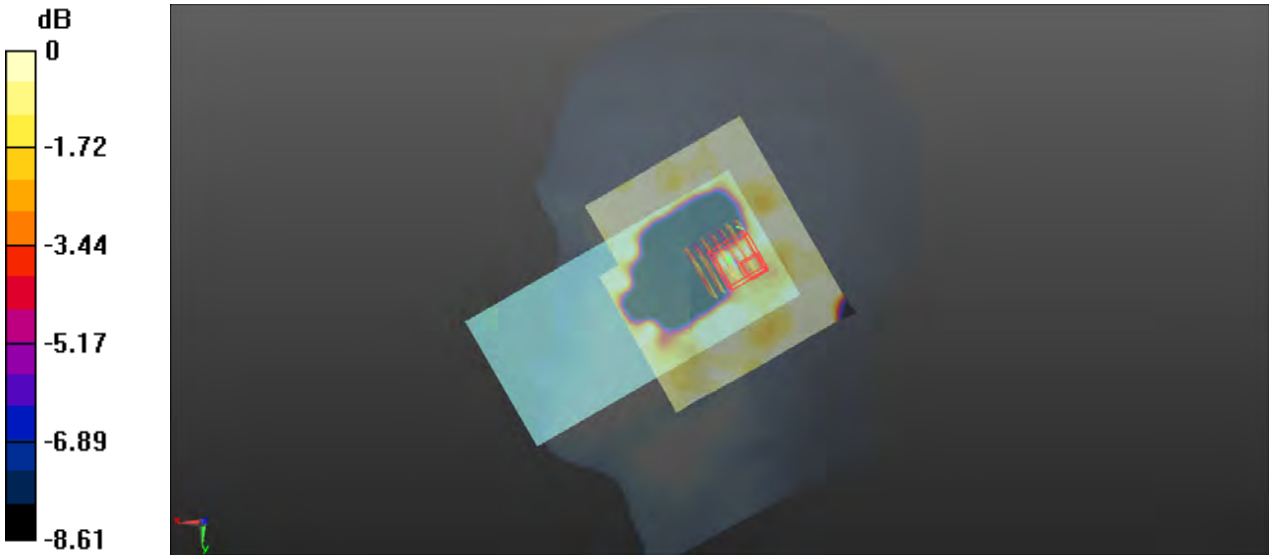
P19 BT_GFSK_Right Cheek_Ch39

Communication System: BT; Frequency: 2441 MHz;Duty Cycle: 1:1.302
Medium: HSL2450_0903 Medium parameters used: f = 2441 MHz; σ = 1.851 S/m; ε_r = 38.555; ρ = 1000 kg/m^3
Ambient Temperature：23.6℃； Liquid Temperature：22.7℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(7.79, 7.79, 7.79) @ 2441 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- Area Scan (101x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0105 W/kg

- Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.600 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.00949 W/kg
SAR(1 g) = 0.00492 W/kg; SAR(10 g) = 0.00369 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 58.1%
Maximum value of SAR (measured) = 0.00682 W/kg



0 dB = 0.00682 W/kg

P20 GSM850_GPRS 3Tx Slot_Rear Face_1cm_Ch128

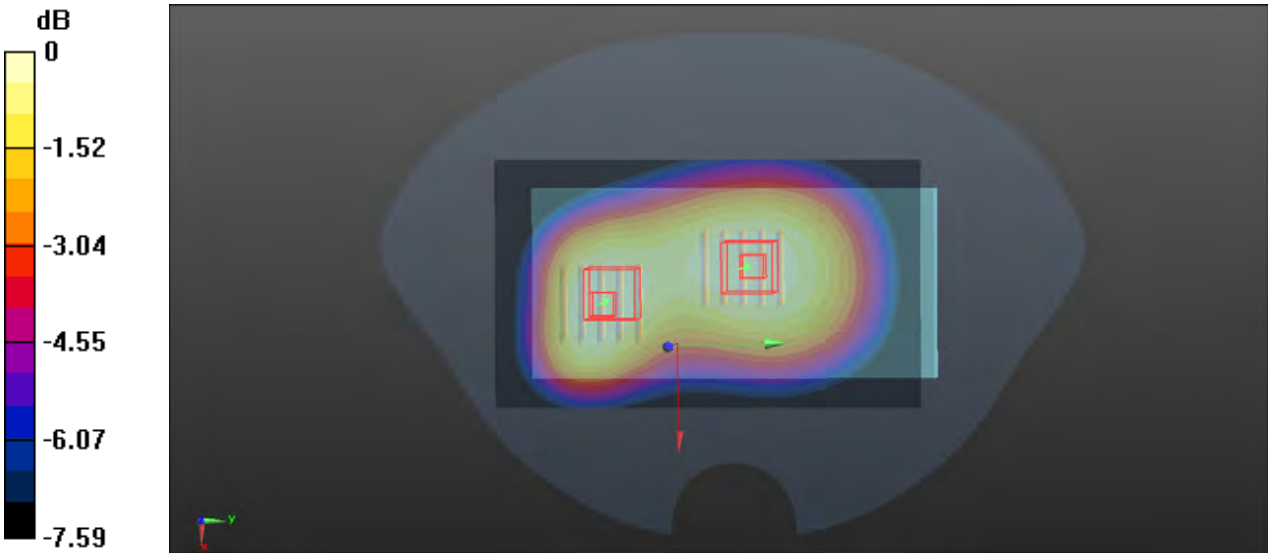
Communication System: GPRS 3Tx-slot; Frequency: 824.2 MHz;Duty Cycle: 1:2.77
Medium: HSL835_0920 Medium parameters used: f = 824.2 MHz; σ = 0.899 S/m; ε_r = 42.027; ρ = 1000 kg/m^3
Ambient Temperature：23.6℃; Liquid Temperature：22.6℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(9.93, 9.93, 9.93) @ 824.2 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.584 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.63 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.772 W/kg
SAR(1 g) = 0.550 W/kg; SAR(10 g) = 0.388 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 72.1%
Maximum value of SAR (measured) = 0.582 W/kg

- Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.63 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.661 W/kg
SAR(1 g) = 0.530 W/kg; SAR(10 g) = 0.406 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 79.2%
Maximum value of SAR (measured) = 0.554 W/kg



0 dB = 0.554 W/kg

P21 GSM1900_GPRS 4Tx Slot_Front Face_1cm_Ch661

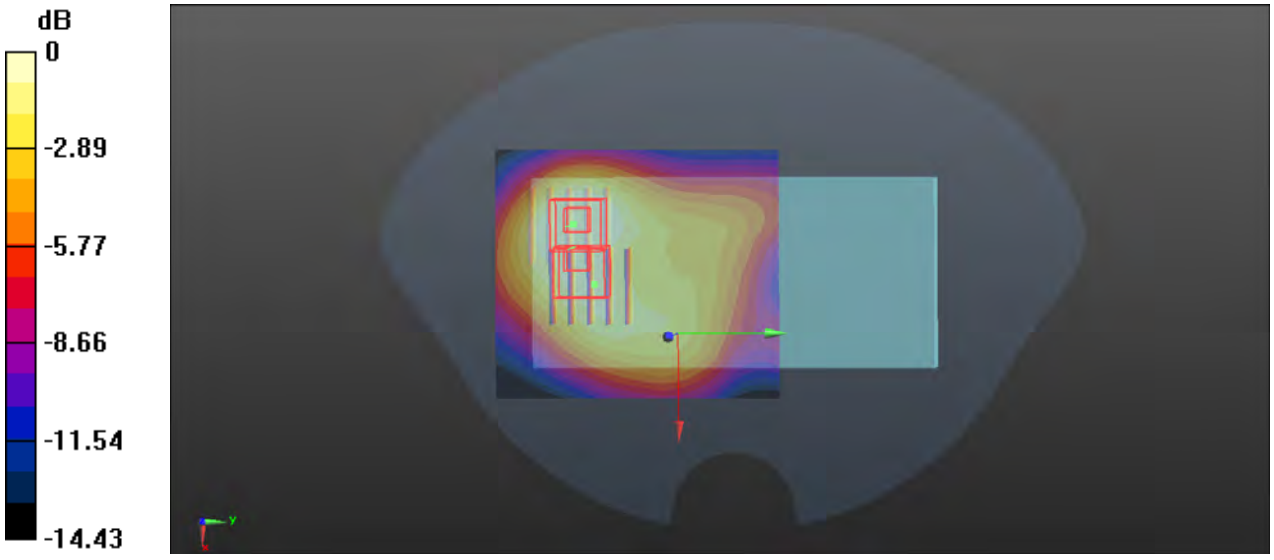
Communication System: GPRS 4Tx-slot; Frequency: 1880 MHz;Duty Cycle: 1:2.08
Medium: HSL1900_0901 Medium parameters used: f = 1880 MHz; σ = 1.416 S/m; ε_r = 40.275; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃； Liquid Temperature：22.5℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(8.16, 8.16, 8.16) @ 1880 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (71x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.412 W/kg

- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.520 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 0.654 W/kg
SAR(1 g) = 0.367 W/kg; SAR(10 g) = 0.207 W/kg
Smallest distance from peaks to all points 3 dB below = 14.8 mm
Ratio of SAR at M2 to SAR at M1 = 56.3%
Maximum value of SAR (measured) = 0.399 W/kg

- **Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.520 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 0.442 W/kg
SAR(1 g) = 0.259 W/kg; SAR(10 g) = 0.165 W/kg
Smallest distance from peaks to all points 3 dB below = 29.9 mm
Ratio of SAR at M2 to SAR at M1 = 61%
Maximum value of SAR (measured) = 0.296 W/kg



0 dB = 0.296 W/kg

Test Laboratory: BV 7LAYERS SAR/HAC Testing Lab Date: 2024/09/20

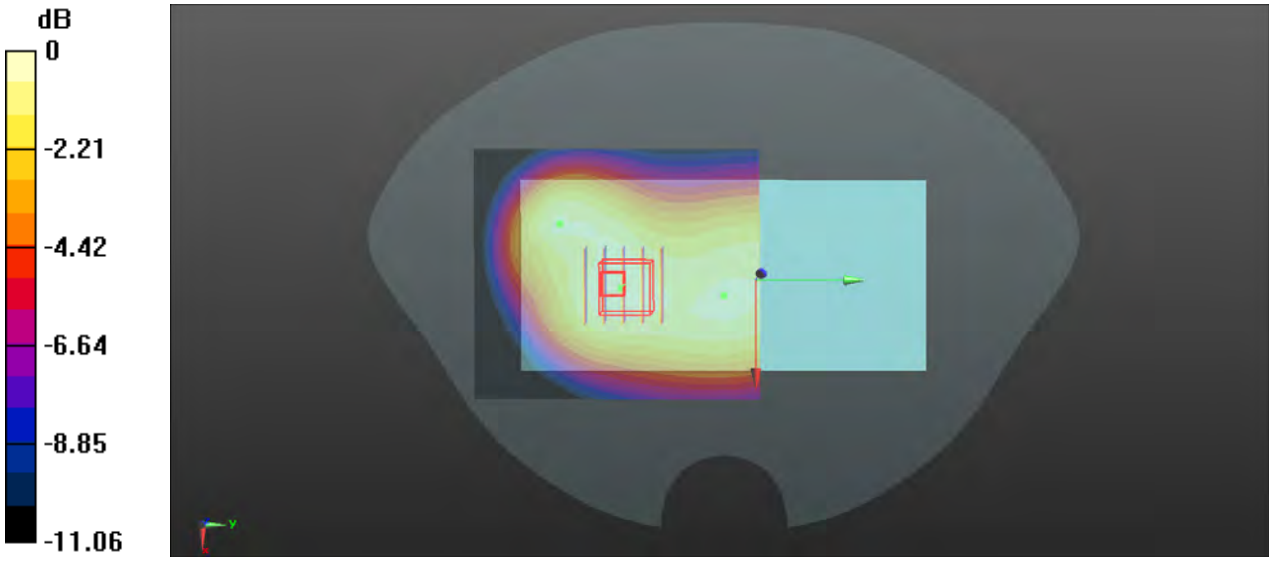
P22 CDMA BC0_RTAP 153.6Kbps_Front Face_1cm_Ch777

Communication System: CDMA2000; Frequency: 848.31 MHz;Duty Cycle: 1:1
Medium: HSL835_0920 Medium parameters used: f = 848.31 MHz; σ = 0.915 S/m; ε_r = 41.856; ρ = 1000 kg/m^3
Ambient Temperature：23.6℃； Liquid Temperature：22.5℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(9.93, 9.93, 9.93) @ 848.31 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- Area Scan (71x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.362 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.55 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.475 W/kg
SAR(1 g) = 0.344 W/kg; SAR(10 g) = 0.245 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 75.6%
Maximum value of SAR (measured) = 0.362 W/kg



0 dB = 0.362 W/kg

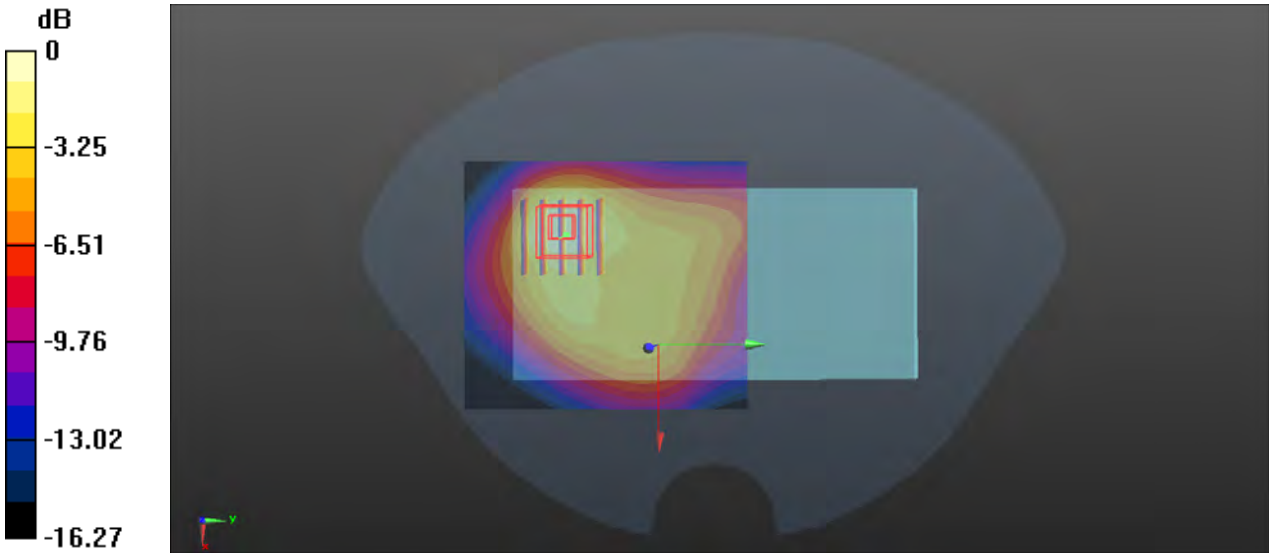
P23 CDMA BC1_RTAP 153.6Kbps_Front Face_1cm_Ch600

Communication System: CDMA2000; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: HSL1900_0901 Medium parameters used: f = 1880 MHz; σ = 1.416 S/m; ε_r = 40.275; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃； Liquid Temperature：22.5℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(8.16, 8.16, 8.16) @ 1880 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (71x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.727 W/kg

- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.95 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 1.26 W/kg
SAR(1 g) = 0.698 W/kg; SAR(10 g) = 0.386 W/kg
Smallest distance from peaks to all points 3 dB below = 12.5 mm
Ratio of SAR at M2 to SAR at M1 = 58.5%
Maximum value of SAR (measured) = 0.726 W/kg



0 dB = 0.726 W/kg

Test Laboratory: BV 7LAYERS SAR/HAC Testing Lab Date: 2024/09/01

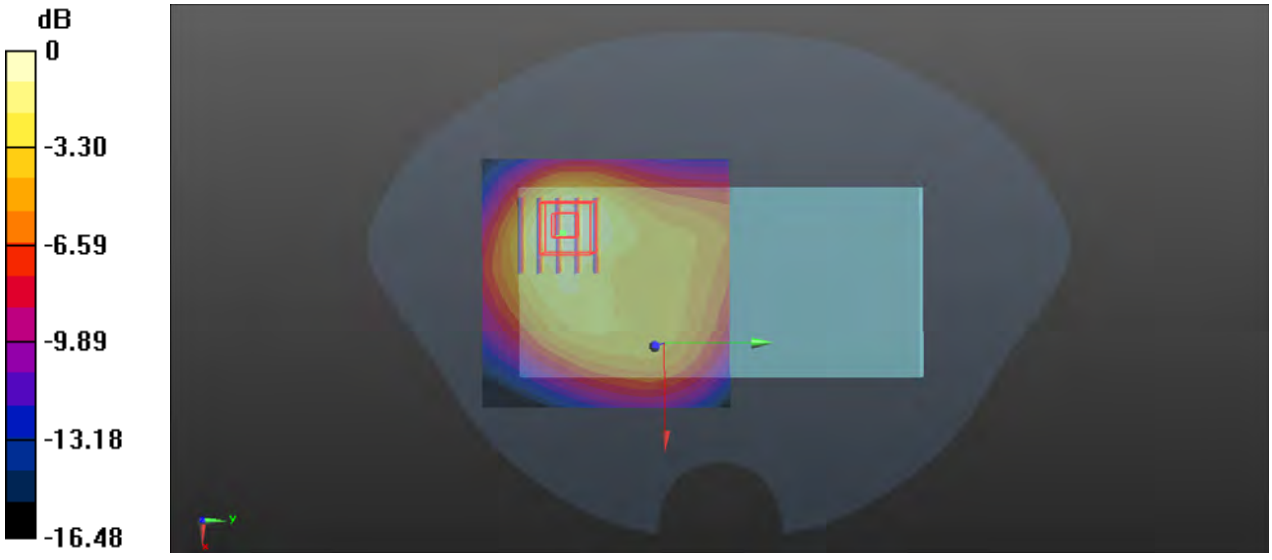
P24 WCDMA II_RMC12.2K_Front Face_1cm_Ch9538

Communication System: WCDMA; Frequency: 1907.6 MHz;Duty Cycle: 1:1
Medium: HSL1900_0901 Medium parameters used: f = 1908 MHz; σ = 1.447 S/m; ε_r = 40.236; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃； Liquid Temperature：22.5℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(8.16, 8.16, 8.16) @ 1907.6 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.697 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.26 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.12 W/kg
SAR(1 g) = 0.635 W/kg; SAR(10 g) = 0.359 W/kg
Smallest distance from peaks to all points 3 dB below = 13.6 mm
Ratio of SAR at M2 to SAR at M1 = 58.3%
Maximum value of SAR (measured) = 0.668 W/kg



0 dB = 0.668 W/kg

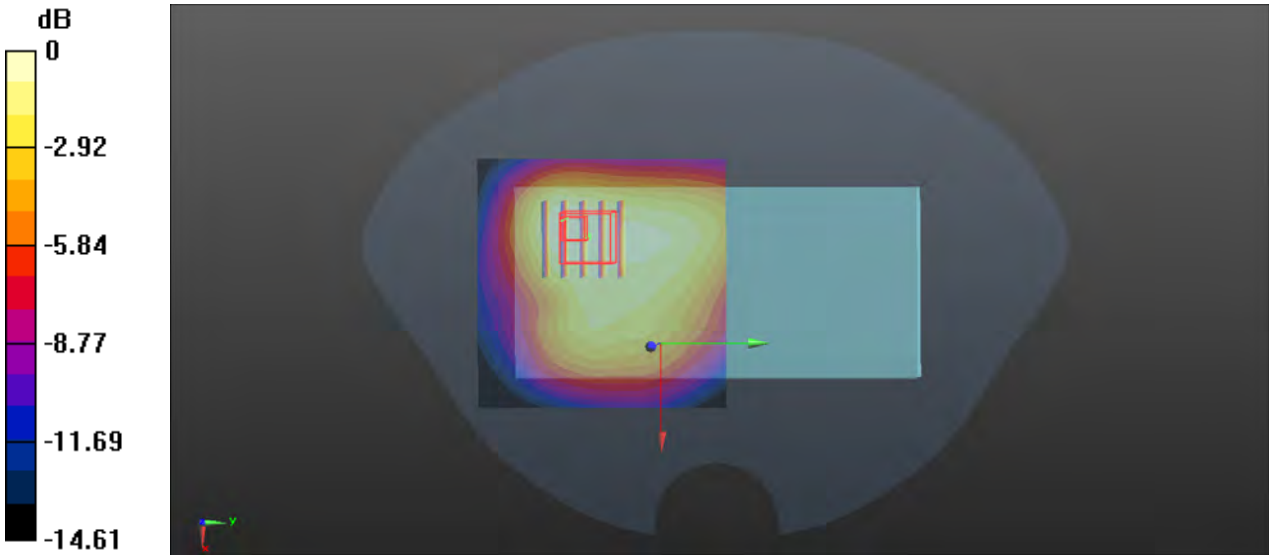
P25 WCDMA IV_RMC12.2K_Front Face_1cm_Ch1513

Communication System: WCDMA; Frequency: 1752.6 MHz;Duty Cycle: 1:1
Medium: HSL1750_0922 Medium parameters used: f = 1753 MHz; σ = 1.359 S/m; ε_r = 40.351; ρ = 1000 kg/m^3
Ambient Temperature：23.6℃； Liquid Temperature：22.7℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(8.51, 8.51, 8.51) @ 1752.6 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.478 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.64 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 0.714 W/kg
SAR(1 g) = 0.435 W/kg; SAR(10 g) = 0.273 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 60.3%
Maximum value of SAR (measured) = 0.455 W/kg



0 dB = 0.455 W/kg

Test Laboratory: BV 7LAYERS SAR/HAC Testing Lab Date: 2024/09/20

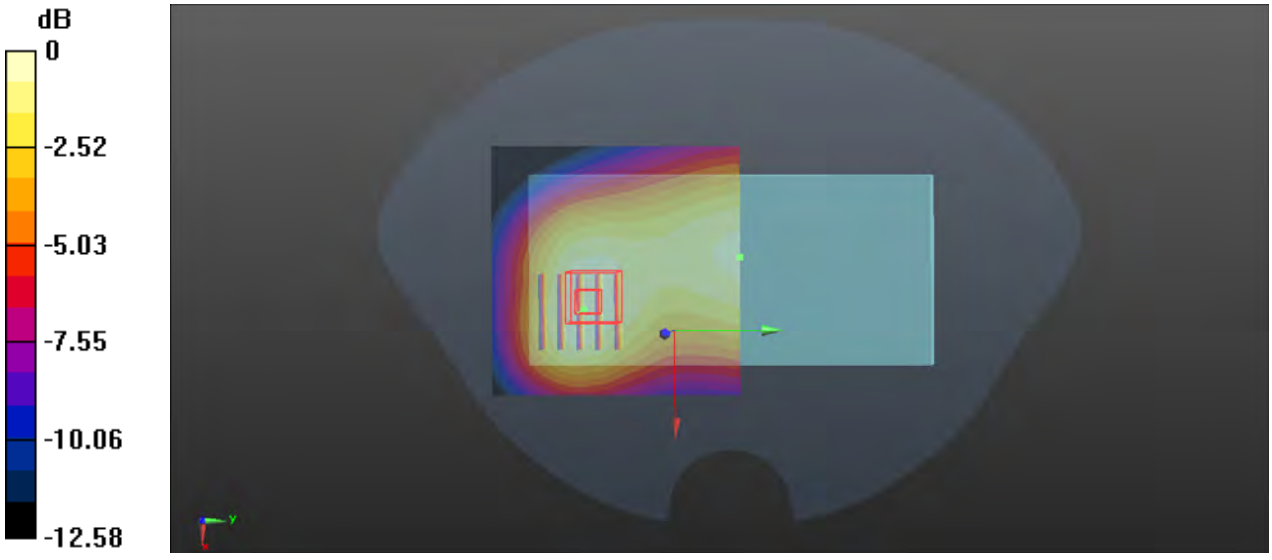
P26 WCDMA V_RMC12.2K_Rear Face_1cm_Ch4233

Communication System: WCDMA; Frequency: 846.6 MHz;Duty Cycle: 1:1
Medium: HSL835_0920 Medium parameters used: f = 847 MHz; σ = 0.914 S/m; ε_r = 41.863; ρ = 1000 kg/m^3
Ambient Temperature：23.6℃； Liquid Temperature：22.5℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(9.93, 9.93, 9.93) @ 846.6 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.310 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17.26 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.416 W/kg
SAR(1 g) = 0.291 W/kg; SAR(10 g) = 0.200 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 68.3%
Maximum value of SAR (measured) = 0.309 W/kg



0 dB = 0.309 W/kg

Test Laboratory: BV 7LAYERS SAR/HAC Testing Lab Date: 2024/09/01

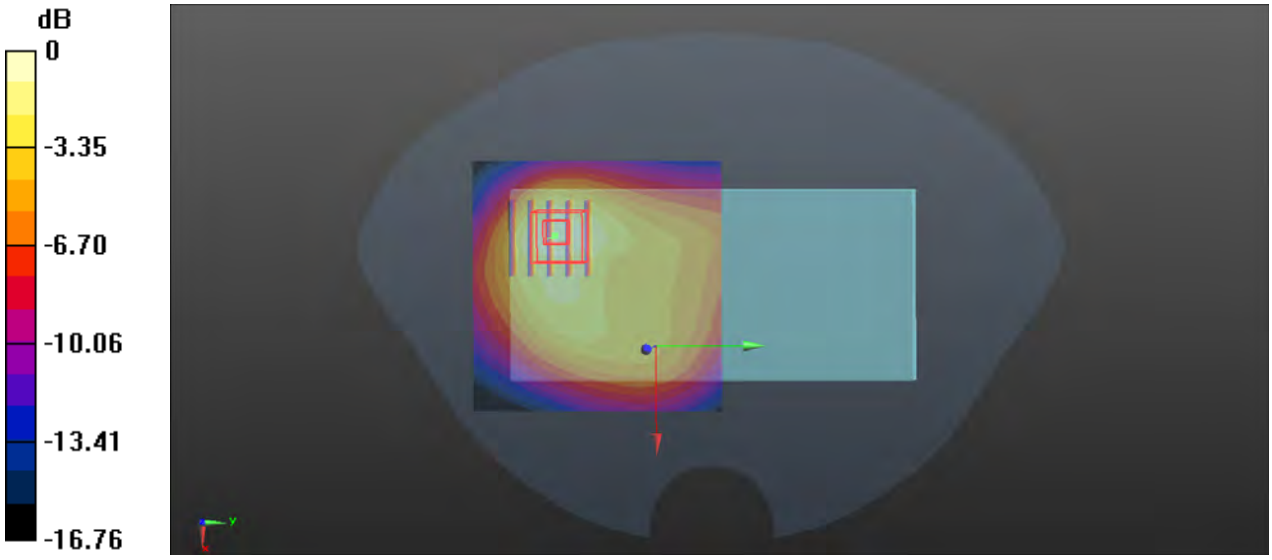
P27 LTE 2_QPSK20M_Front Face_1cm_Ch19100_1RB_OS50

Communication System: LTE; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: HSL1900_0901 Medium parameters used: f = 1900 MHz; σ = 1.438 S/m; ε_r = 40.253; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃； Liquid Temperature：22.5℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(8.16, 8.16, 8.16) @ 1900 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.691 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.07 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 1.07 W/kg
SAR(1 g) = 0.610 W/kg; SAR(10 g) = 0.346 W/kg
Smallest distance from peaks to all points 3 dB below = 14.5 mm
Ratio of SAR at M2 to SAR at M1 = 58%
Maximum value of SAR (measured) = 0.666 W/kg



0 dB = 0.666 W/kg

Test Laboratory: BV 7LAYERS SAR/HAC Testing Lab Date: 2024/09/20

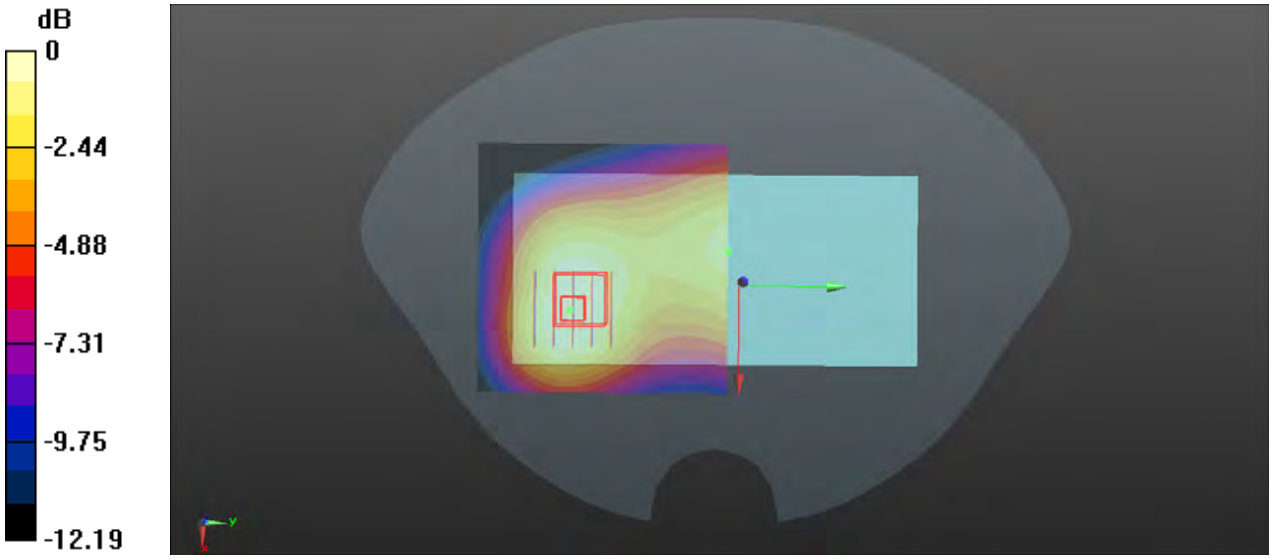
P28 LTE 5_QPSK10M_Rear Face_1cm_Ch20600_1RB_OS24

Communication System: LTE; Frequency: 844 MHz;Duty Cycle: 1:1
Medium: HSL835_0920 Medium parameters used: f = 844 MHz; σ = 0.912 S/m; ε_r = 41.885; ρ = 1000 kg/m^3
Ambient Temperature：23.6℃； Liquid Temperature：22.5℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(9.93, 9.93, 9.93) @ 844 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.336 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 15.75 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 0.432 W/kg
SAR(1 g) = 0.303 W/kg; SAR(10 g) = 0.207 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 69.3%
Maximum value of SAR (measured) = 0.323 W/kg



0 dB = 0.323 W/kg

Test Laboratory: BV 7LAYERS SAR/HAC Testing Lab Date: 2024/10/18

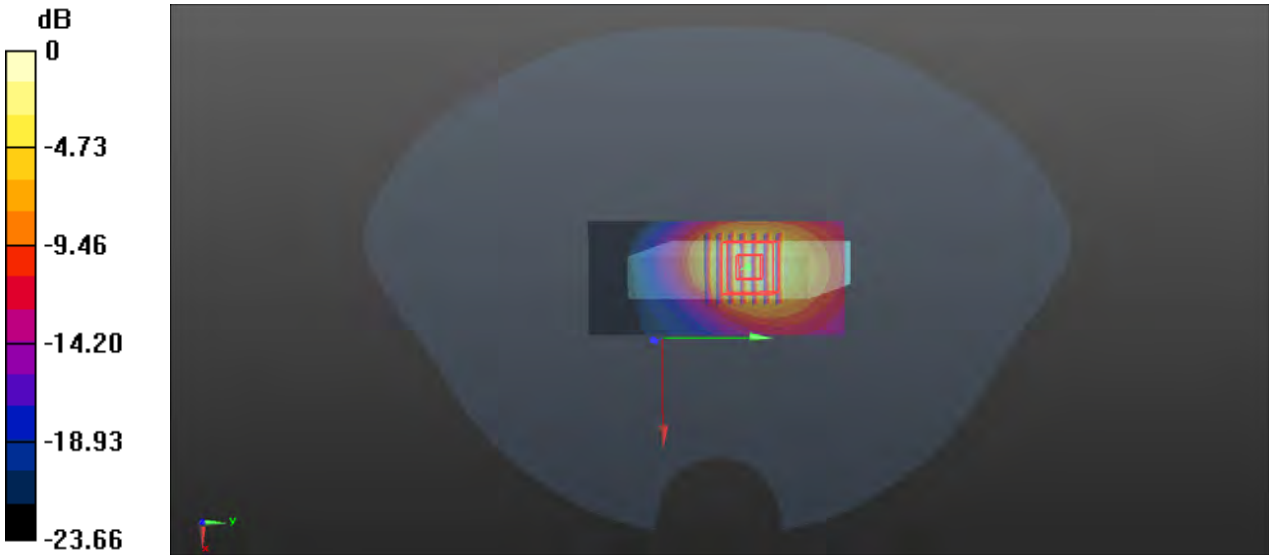
P29 LTE 7_QPSK20M_Bottom Side_1cm_Ch21100_1RB_OS50

Communication System: LTE; Frequency: 2535 MHz;Duty Cycle: 1:1
Medium: HSL2600_1018 Medium parameters used: f = 2535 MHz; σ = 1.883 S/m; ε_r = 39.128; ρ = 1000 kg/m^3
Ambient Temperature：23.7℃； Liquid Temperature：22.6℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(7.64, 7.64, 7.64) @ 2535 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- Head/Area Scan (41x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.34 W/kg

- Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 16.76 V/m; Power Drift = -0.18 dB
Peak SAR (extrapolated) = 1.91 W/kg
SAR(1 g) = 0.956 W/kg; SAR(10 g) = 0.448 W/kg
Smallest distance from peaks to all points 3 dB below = 10 mm
Ratio of SAR at M2 to SAR at M1 = 51.9%
Maximum value of SAR (measured) = 1.25 W/kg



0 dB = 1.25 W/kg

Test Laboratory: BV 7LAYERS SAR/HAC Testing Lab Date: 2024/09/19

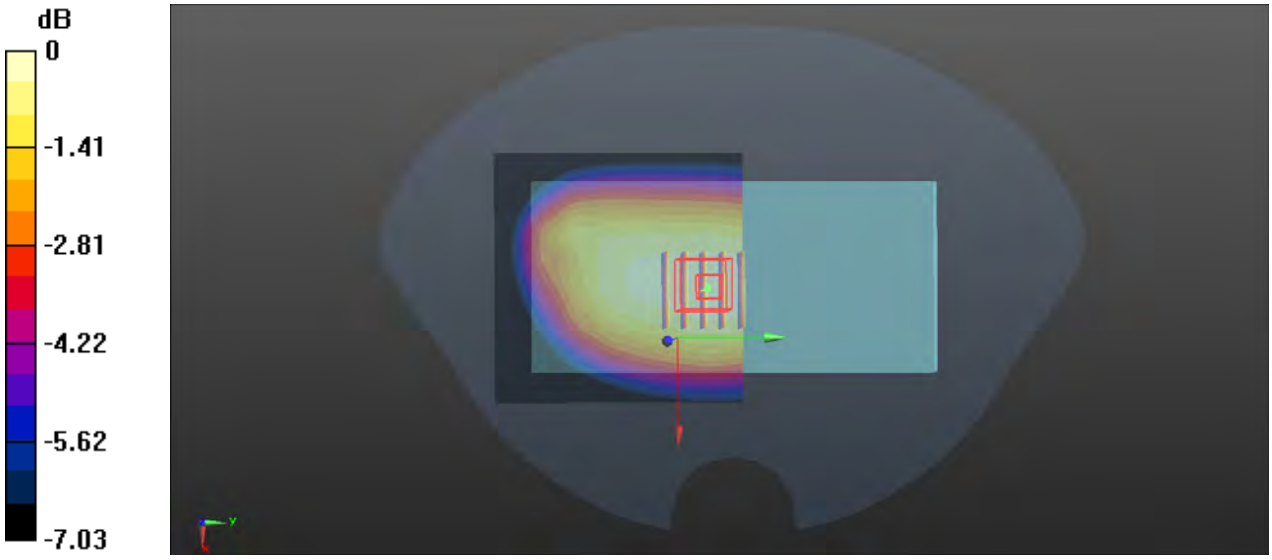
P30 LTE 12_QPSK10M_Front Face_1cm_Ch23060_1RB_OS0

Communication System: LTE; Frequency: 704 MHz;Duty Cycle: 1:1
Medium: HSL750_0919 Medium parameters used: f = 704 MHz; σ = 0.851 S/m; ε_r = 41.613; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃； Liquid Temperature：22.4℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(10.25, 10.25, 10.25) @ 704 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.169 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.10 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 0.198 W/kg
SAR(1 g) = 0.164 W/kg; SAR(10 g) = 0.129 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 80.6%
Maximum value of SAR (measured) = 0.171 W/kg



0 dB = 0.171 W/kg

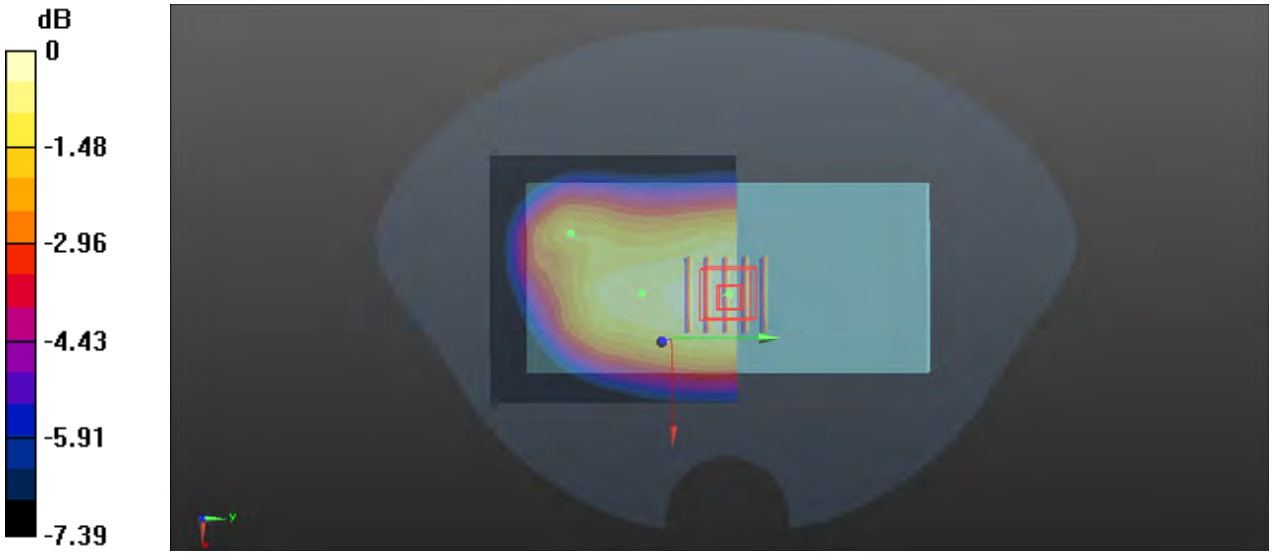
P31 LTE 13_QPSK10M_Front Face_1cm_Ch23230_1RB_OS0

Communication System: LTE; Frequency: 782 MHz;Duty Cycle: 1:1
Medium: HSL750_0919 Medium parameters used: f = 782 MHz; σ = 0.905 S/m; ε_r = 41.078; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃； Liquid Temperature：22.4℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(10.25, 10.25, 10.25) @ 782 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.182 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.29 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.216 W/kg
SAR(1 g) = 0.177 W/kg; SAR(10 g) = 0.137 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 80.7%
Maximum value of SAR (measured) = 0.184 W/kg



0 dB = 0.184 W/kg

P32 LTE 14_QPSK10M_Front Face_1cm_Ch23330_1RB_OS0

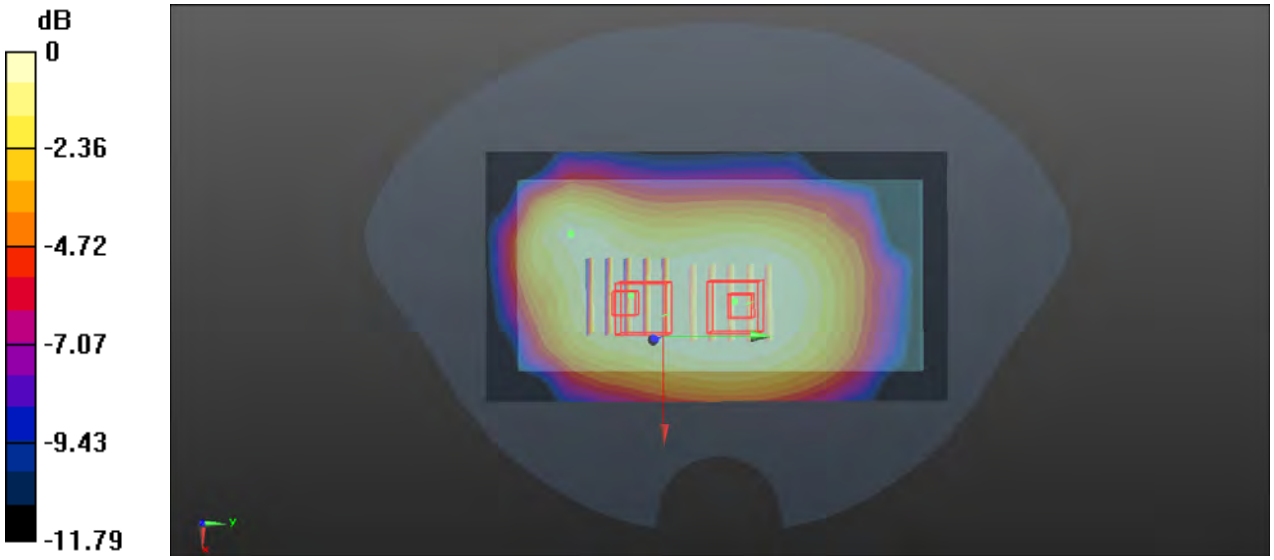
Communication System: LTE; Frequency: 793 MHz;Duty Cycle: 1:1
Medium: HSL750_0919 Medium parameters used: f = 793 MHz; σ = 0.907 S/m; ε_r = 40.958; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃； Liquid Temperature：22.4℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(10.25, 10.25, 10.25) @ 793 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.214 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.86 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.251 W/kg
SAR(1 g) = 0.202 W/kg; SAR(10 g) = 0.153 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 78%
Maximum value of SAR (measured) = 0.212 W/kg

- Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.86 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.244 W/kg
SAR(1 g) = 0.177 W/kg; SAR(10 g) = 0.133 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 78.2%
Maximum value of SAR (measured) = 0.188 W/kg



0 dB = 0.188 W/kg

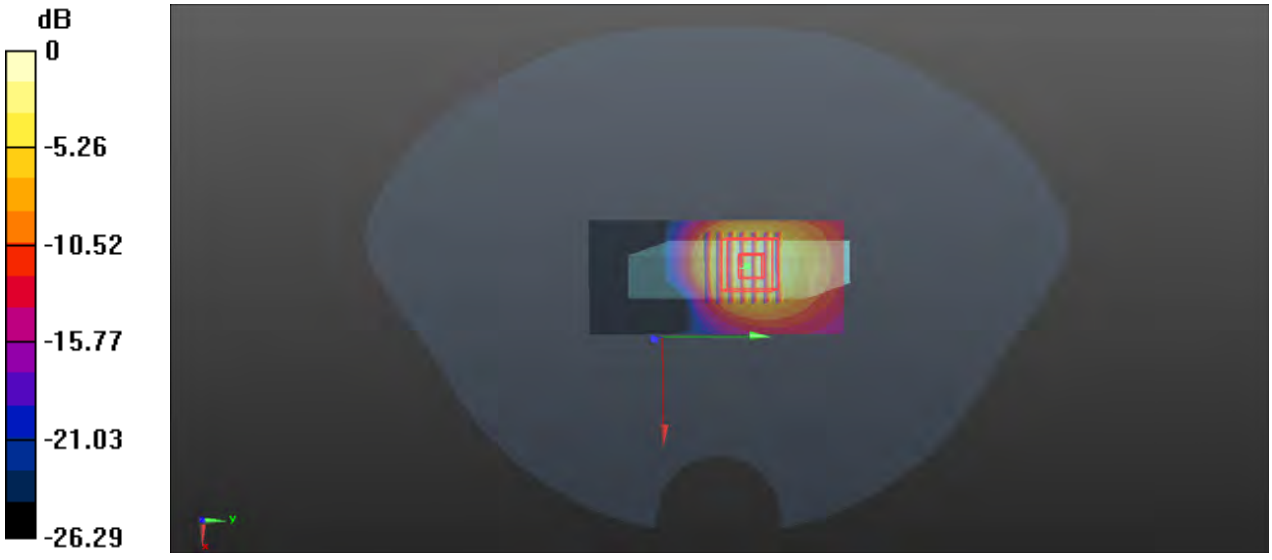
P33 LTE 41_QPSK20M_Bottom Side_1cm_Ch41490_1RB_OS50

Communication System: LTE TDD; Frequency: 2680 MHz;Duty Cycle: 1:1.59
Medium: HSL2600_1018 Medium parameters used: f = 2680 MHz; σ = 1.999 S/m; ε_r = 38.913; ρ = 1000 kg/m^3
Ambient Temperature：23.7℃； Liquid Temperature：22.6℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(7.64, 7.64, 7.64) @ 2680 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- Area Scan (41x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.24 W/kg

- Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.93 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 1.82 W/kg
SAR(1 g) = 0.886 W/kg; SAR(10 g) = 0.407 W/kg
Smallest distance from peaks to all points 3 dB below = 10 mm
Ratio of SAR at M2 to SAR at M1 = 50.1%
Maximum value of SAR (measured) = 1.15 W/kg



0 dB = 1.15 W/kg

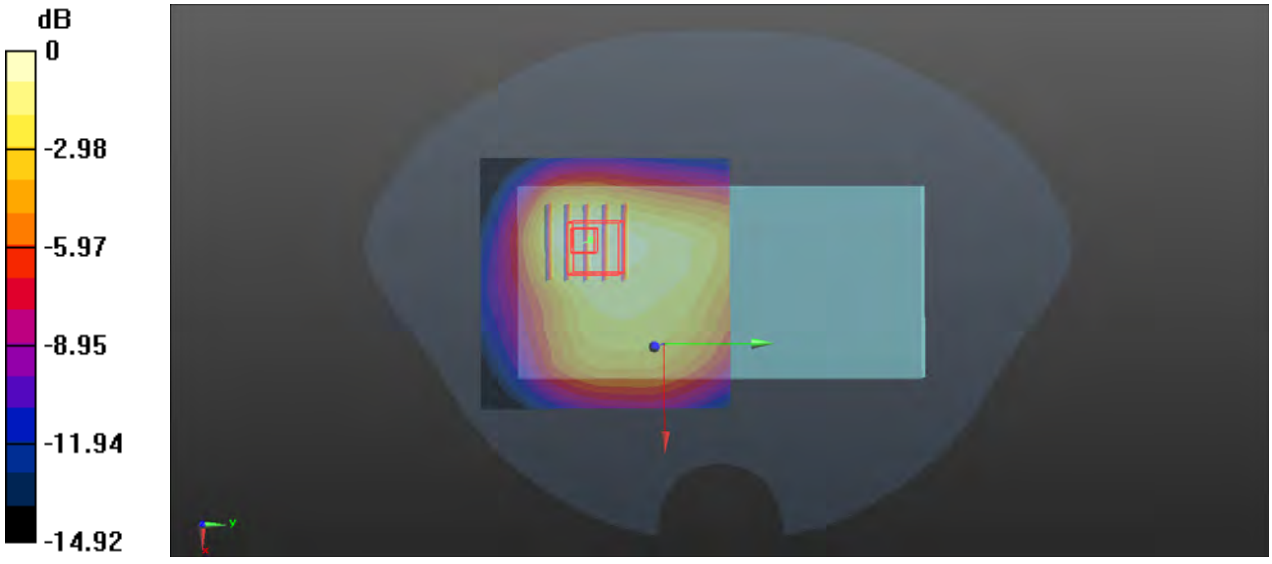
P34 LTE 66_QPSK20M_Front Face_1cm_Ch132072_1RB_OS99

Communication System: LTE; Frequency: 1720 MHz;Duty Cycle: 1:1
Medium: HSL1750_0922 Medium parameters used: f = 1720 MHz; σ = 1.325 S/m; ε_r = 40.479; ρ = 1000 kg/m^3
Ambient Temperature：23.6℃； Liquid Temperature：22.7℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(8.51, 8.51, 8.51) @ 1720 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.509 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.48 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.717 W/kg
SAR(1 g) = 0.439 W/kg; SAR(10 g) = 0.274 W/kg
Smallest distance from peaks to all points 3 dB below = 17.9 mm
Ratio of SAR at M2 to SAR at M1 = 63.5%
Maximum value of SAR (measured) = 0.471 W/kg



0 dB = 0.471 W/kg

Test Laboratory: BV 7LAYERS SAR/HAC Testing Lab Date: 2024/09/03

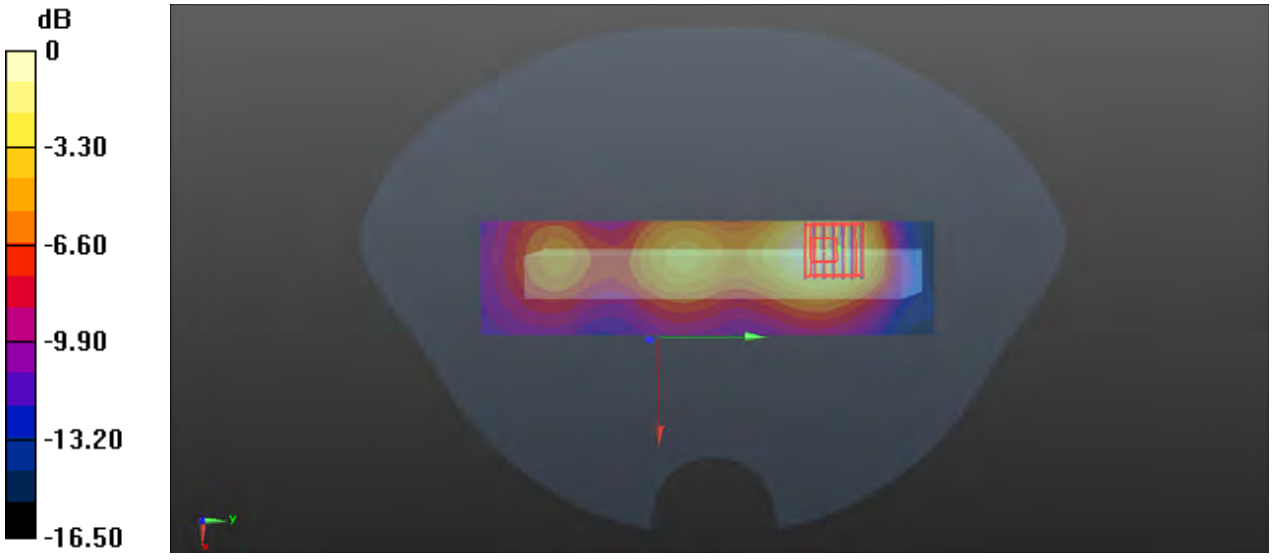
P35 WLAN2.4G_802.11b_Left Side_1cm_Ch11

Communication System: 802.11b; Frequency: 2462 MHz;Duty Cycle: 1:1.015
Medium: HSL2450_0903 Medium parameters used: f = 2462 MHz; σ = 1.867 S/m; ε_r = 38.484; ρ = 1000 kg/m^3
Ambient Temperature：23.6℃； Liquid Temperature：22.7℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(7.79, 7.79, 7.79) @ 2462 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- Area Scan (41x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.289 W/kg

- Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 7.212 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.359 W/kg
SAR(1 g) = 0.195 W/kg; SAR(10 g) = 0.101 W/kg
Smallest distance from peaks to all points 3 dB below = 17 mm
Ratio of SAR at M2 to SAR at M1 = 77.3%
Maximum value of SAR (measured) = 0.274 W/kg



0 dB = 0.274 W/kg

Test Laboratory: BV 7LAYERS SAR/HAC Testing Lab Date: 2024/09/24

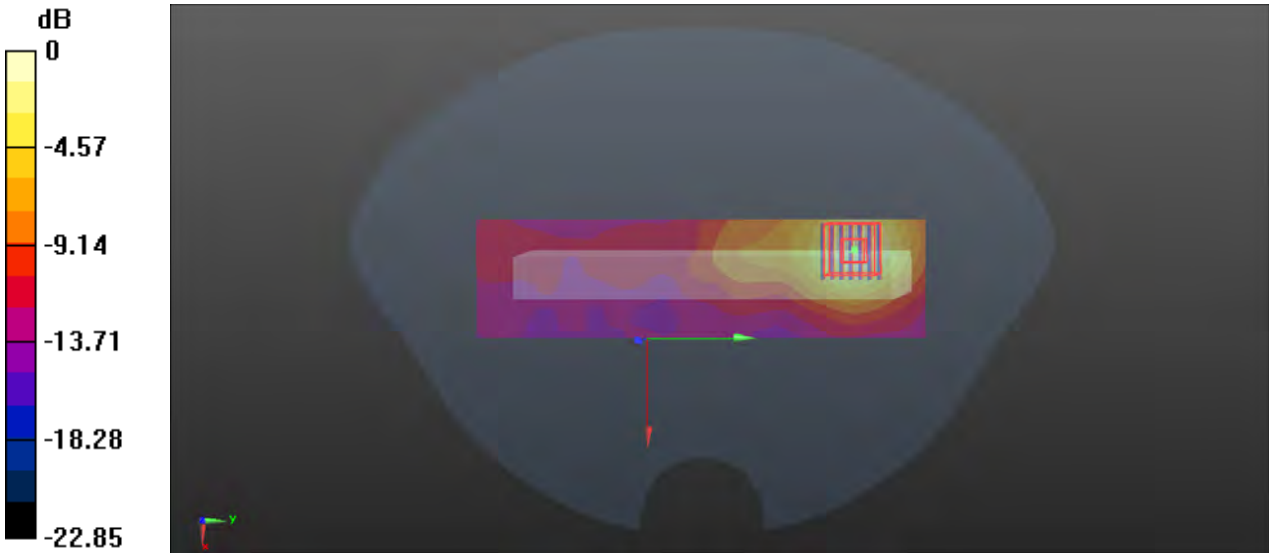
P36 WLAN5G_802.11a_Left Side_1cm_Ch36

Communication System: 802.11a; Frequency: 5180 MHz;Duty Cycle: 1:1.016
Medium: HSL5G_0924 Medium parameters used: f = 5180 MHz; σ = 4.508 S/m; ε_r = 35.426; ρ = 1000 kg/m^3
Ambient Temperature：23.6℃； Liquid Temperature：22.6℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3985; ConvF(5.52, 5.52, 5.52) @ 5180 MHz; Calibrated: 2024/07/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- Area Scan (51x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.546 W/kg

- Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 3.369 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 1.03 W/kg
SAR(1 g) = 0.302 W/kg; SAR(10 g) = 0.123 W/kg
Smallest distance from peaks to all points 3 dB below = 12 mm
Ratio of SAR at M2 to SAR at M1 = 56.8%
Maximum value of SAR (measured) = 0.546 W/kg



0 dB = 0.546 W/kg