TEST REPORT

Applicant:	Shanghai Xiangcheng Communication Technology Co., Ltd
Address:	6th Floor, Building 10, No.3000, Longdong Avenue, Pudong New District, Shanghai, China
Equipment Type:	Portable Data Collection Terminal
Model Name:	D300
Brand Name:	Kobile, Shop2shop, moniepoint, Dejavoo, i-POSPay, WIRELESS& MOBILE, Positivo, IStapel, Kripto, Nextpay
FCC ID:	2A2UU-D300
Test Standard:	FCC 47 CFR Part 2.1093 (refer to section 3.1)
Maximum SAR:	Body-worn (1 g@10mm): 1.12 W/kg Hotspot (1 g@10mm): 1.12 W/kg Specific (10 g@0mm): 1.80 W/kg
Sample Arrival Date:	Nov. 24, 2023
Test Date：	Nov. 27, 2023 - Jan. 12, 2024
Date of Issue:	Feb. 28, 2024

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Xiong Lining **Checked by:** Xu Rui **Approved by:** Tolan Tu (Testing Director)

Revision History

Version	Issue Date	Revisions Content
Rev. 01	Feb. 20, 2024	Initial Issue
Rev. 02	Feb. 28, 2024	1. Update the information of the applicant and manufacturer. 2. Update the information of softwar and hardware.

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☑ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☐ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

1.3 Test Environment Condition

Ambient Temperature	18℃ to 25℃
Ambient Relative Humidity	30% to 70%

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Shanghai Xiangcheng Communication Technology Co., Ltd
Address	6th Floor, Building 10, No.3000, Longdong Avenue, Pudong New District, Shanghai, China

2.2 Manufacturer Information

Manufacturer	Shanghai Xiangcheng Communication Technology Co., Ltd
Address	6th Floor, Building 10, No.3000, Longdong Avenue, Pudong New District, Shanghai, China

2.3 General Description for Equipment under Test (EUT)

EUT Name	Portable Data Collection Terminal
Model Name Under Test	D300
Series Model Name	N/A
Description of Model Name Differentiation	N/A
Hardware Version	P1311_MAIN_PCB_V1.0B
Software Version	P1311_KOZEN_A1B1_20231110
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Ancillary Equipment

Ancillary Equipment 1	Battery	
	Brand Name	N/A
	Model No.	F50051MA
	Serial No.	N/A
	Capacity	5000 mAh
	Rated Voltage	3.80 V
	Limit Charge Voltage	4.35 V

2.5 Technical Information

Network and Wireless connectivity	2G Network GPRS/EDGE 850/1900 MHz 3G Network WCDMA/HSDPA/HSUPA Band 2/4/5 4G Network FDD LTE Band 2/4/5/7/12/17/25/26 TDD LTE Band 38/41 Bluetooth (BR+EDR+BLE) 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40) 5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80) U-NII-1/2A/2C/3, GPS, GLONASS, BeiDou Galileo, NFC

The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	GSM, WCDMA, LTE, 2.4G WLAN, 5G WLAN, Bluetooth		
Frequency Range	GSM 850	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	GSM 1900	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	WCDMA Band 2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	WCDMA Band 4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	WCDMA Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	LTE Band 4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	LTE Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 7	TX: 2500 ~ 2570 MHz	RX: 2620 ~ 2690 MHz
	LTE Band 12	TX: 699 ~ 716 MHz	RX: 729 ~ 746 MHz
	LTE Band 17	TX: 704 ~ 716 MHz	RX: 734 ~ 746 MHz
	LTE Band 25	TX: 1850 ~ 1915 MHz	RX: 1930 ~ 1995 MHz
	LTE Band 26	TX: 814 ~ 824 MHz	RX: 859 ~ 869 MHz
		TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 38	TX: 2570 ~ 2620 MHz	RX: 2570 ~ 2620 MHz
	LTE Band 41	TX: 2535 ~ 2655 MHz	RX: 2535 ~ 2655 MHz
	802.11b/g /n(HT20/40)	2412 ~ 2462 MHz	
	802.11a/ /n(HT20/HT40) /ac(VHT20/VHT40 /VHT80)	5150 ~ 5250 MHz	
		5250 ~ 5350 MHz	
		5470 ~ 5725 MHz	
		5725 ~ 5850 MHz	
	Bluetooth	2402 ~ 2480 MHz	
Antenna Type	WWAN: PIFA Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna		
DTM	N/A		
Hotspot Function	Support		
Power Reduction	Not Support		
Exposure Category	General Population/Uncontrolled exposure		
Product Type	Portable Device		

EUT Type	☒ Production unit	☐ Identical prototype

3 SUMMARY OF TEST RESULT

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 2.1093	Radiofrequency radiation exposure evaluation: portable devices
2	ANSI C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz
3	KDB 447498 D04 v01	447498 D04 Interim General RF Exposure Guidance v01
4	KDB 941225 D01 v03r01	3G SAR MEAUREMENT PROCEDURES
5	KDB 941225 D05 v02r05	SAR Evaluation Considerations for LTE Devices
6	KDB 941225 D06 v02r01	SAR EVALUATION PROCEDURES FOR PORTABLE DEVICES WITH WIRELESS ROUTER CAPABILITIES
7	KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
8	KDB 865664 D02 v01r02	RF Exposure Reporting
9	KDB 648474 D04 v01r03	SAR EVALUATION CONSIDERATIONS FOR WIRELESS HANDSETS
10	KDB 248227 D01 v02r02	SAR GUIDANCE FOR IEEE 802.11 (Wi-Fi) TRANSMITTERS

3.2 Device Category and SAR Limit

This device belongs to portable device category because its radiating structure is allowed to be used within 20 centimeters of the body of the user.

Limit for General Population/Uncontrolled exposure should be applied for this device, it is 1.6 W/kg as averaged over any 1 gram of tissue.

Table of Exposure Limits:

Body Position	SAR Value (W/Kg)	
	General Population/ Uncontrolled Exposure	Occupational/ ControlledExposure
Whole-Body SAR (averaged over the entire body)	0.08	0.4
Partial-Body SAR (averaged over any 1 gram of tissue)	1.60	8.0
SAR for hands, wrists, feet and ankles (averaged over any 10 grams of tissue)	4.0	20.0

NOTE:

General Population/Uncontrolled Exposure: Locations where there is the exposure of individuals who have no knowledge or control of their exposure. General population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

Occupational/Controlled Exposure: Locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

3.3 Test Result Summary

3.3.1 Highest SAR Values

Equipment Class	Band	Maximum Scaled SAR (W/kg)			Maximum Report SAR (W/kg)		
		Body-worn (10mm)	Hotspot (10mm)	Specific (0mm)	Body-worn (10mm)	Hotspot (10mm)	Specific (0mm)
		1g SAR		10g SAR	1g SAR		10g SAR
PCE	GSM 850	0.82	0.82	1.00	1.12	1.12	1.80
	GSM 1900	0.61	0.61	**1.80**			
	WCDMA Band 2	0.48	0.48	1.38			
	WCDMA Band 4	0.42	0.42	1.27			
	WCDMA Band 5	0.37	0.37	0.41			
	LTE Band 2	0.21	0.21	0.72			
	LTE Band 4	0.47	0.47	1.49			
	LTE Band 5	0.79	0.79	0.77			
	LTE Band 7	**1.12**	**1.12**	1.68			
	LTE Band 12	0.16	0.16	0.26			
	LTE Band 25	0.52	0.52	1.48			
	LTE Band 26	0.45	0.45	0.46			
	LTE Band 41	1.05	1.05	1.62			
DTS	2.4 G	0.13	0.13	0.12			
NII	5.2G	/	0.09	/			
	5.3G	0.21	/	0.09			
	5.6 G	0.25	/	0.07			
	5.8 G	0.20	0.20	/			
DSS	Bluetooth	0.02	0.02	0.02			
Limit (W/kg)		1.6		4.0	1.6		4.0
Verdict		PASS					

3.4 Test Uncertainty

According to KDB 865664 D01, when the highest measured 1 g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis is not required in SAR reports submitted for equipment approval.

The maximum 1 g SAR for the EUT in this report is 1.12 W/kg, which is lower than 1.5 W/kg, so the extensive SAR measurement uncertainty analysis is not required in this report.
The maximum 10 g SAR for the EUT in this report is 1.80 W/kg, which is lower than 3.75 W/kg, so the extensive SAR measurement uncertainty analysis is not required in this report.

4 MEASUREMENT SYSTEM

4.1 Specific Absorption Rate (SAR) Definition

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

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

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

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

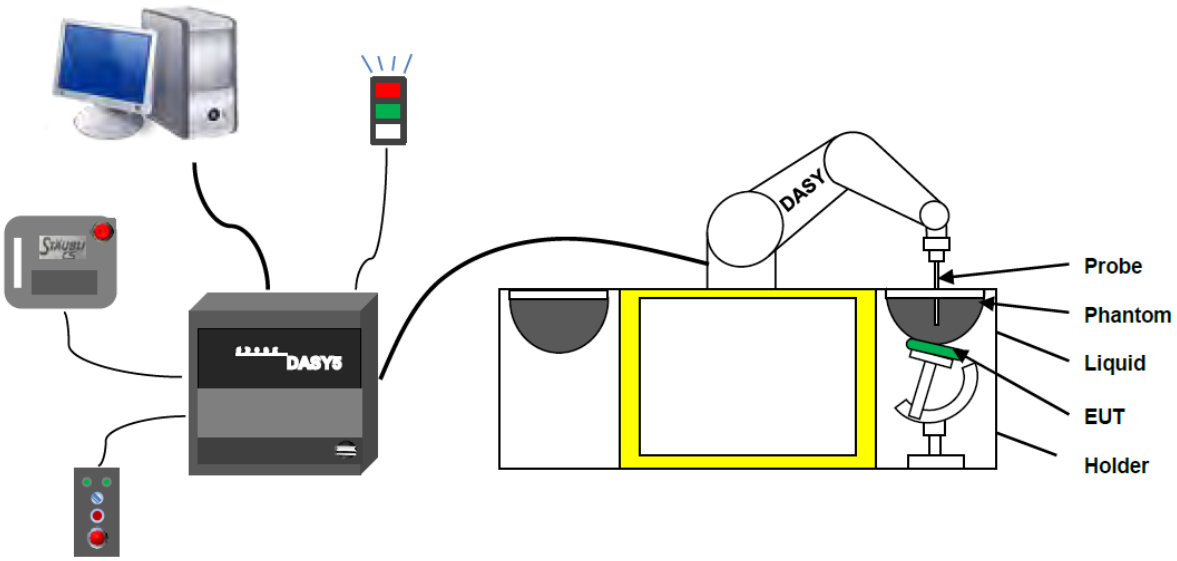
$$\mathbf{SAR} = \frac{\boldsymbol{\sigma}\mathbf{E}^{\mathbf{2}}}{\boldsymbol{\rho}}$$

Where: σ is the conductivity of the tissue,

ρis the mass density of the tissue and E is the RMS electrical field strength.

4.2 DASY SAR System

4.2.1 DASY SAR System Diagram



The DASY5 system for performing compliance tests consists of the following items:

1. A standard high precision 6-axis robot (Stäubli RX family) with controller and software. An arm extension for accommodating the data acquisition electronics (DAE).
2. A dosimetric probe, i.e. an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
3. A data acquisition electronic (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
4. A unit to operate the optical surface detector which is connected to the EOC.
5. The Electro-Optical Coupler (EOC) performs the conversion from the optical into a digital electric signal of the DAE. The EOC is connected to the DASY5 measurement server.
6. The DASY5 measurement server, which performs all real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operation.
7. DASY5 software and SEMCAD data evaluation software.
8. Remote control with teach panel and additional circuitry for robot safety such as warning lamps, etc.
9. The generic twin phantom enabling the testing of left-hand and right-hand usage.
10. The device holder for handheld mobile phones.
11. Tissue simulating liquid mixed according to the given recipes.
12. System validation dipoles allowing to validate the proper functioning of the system.

4.2.2 Robot

The Dasy SAR system uses the high precision robots. Symmetrical design with triangular core Built-in optical fiber for surface detection system For the 6-axis controller system, Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents). The robot series have many features that are important for our application:

- High precision

  (repeatability ±0.02 mm)

- High reliability

  (industrial design)

- Low maintenance costs

  (virtually maintenance free due to direct drive gears; no belt drives)

- Jerk-free straight movements

  (brush less synchron motors; no stepper motors)

- Low ELF interference

  (motor control _elds shielded via the closed metallic construction shields)

4.2.3 E-Field Probe

The probe is specially designed and calibrated for use in liquids with high permittivities for the measurements the Specific Dosimetric E-Field Probe EX3DV4-SN: 7510 with following specifications is used.

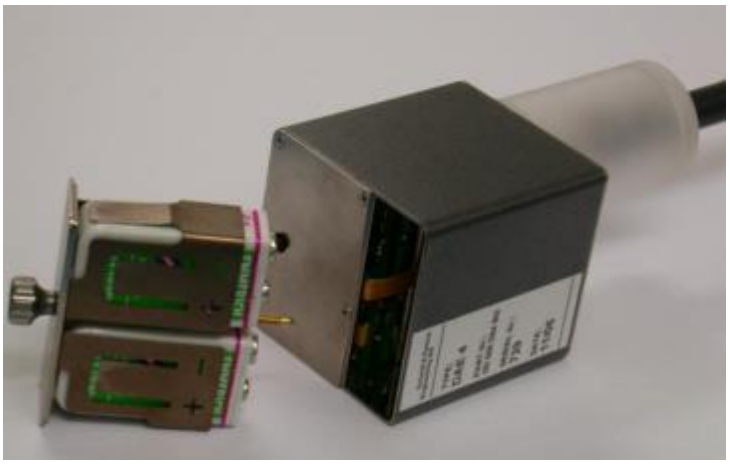
Construction	Symmetrical design with triangular core Built-in optical fiber for surface detection systemBuilt-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., glycolether)
Calibration	ISO/IEC 17025 calibration service available
Frequency	10 MHz to 6 GHz; Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.2 dB in HSL (rotation around probe axis) ; ± 0.4 dB in HSL (rotation normal to probe axis)
Dynamic range	5 μW/g to > 100 mW/g; Linearity: ± 0.2 dB
Dimensions	Overall length: 337 mm (Tip: 9 mm) Tip diameter: 2.5 mm (Body: 10 mm) Distance from probe tip to dipole centers: 1.0 mm
Application	General dosimetry up to 3 GHz Compliance tests of mobile phones Fast automatic scanning in arbitrary phantoms (EX3DV4)

E-Field Probe Calibration Process

Probe calibration is realized, in compliance with CENELEC EN 62209-1/-2 and IEEE 1528 std, with CALISAR, Antennessa proprietary calibration system. The calibration is performed with the EN 62209-1/2 annexe technique using reference guide at the five frequencies.

4.2.4 Data Acquisition Electronics

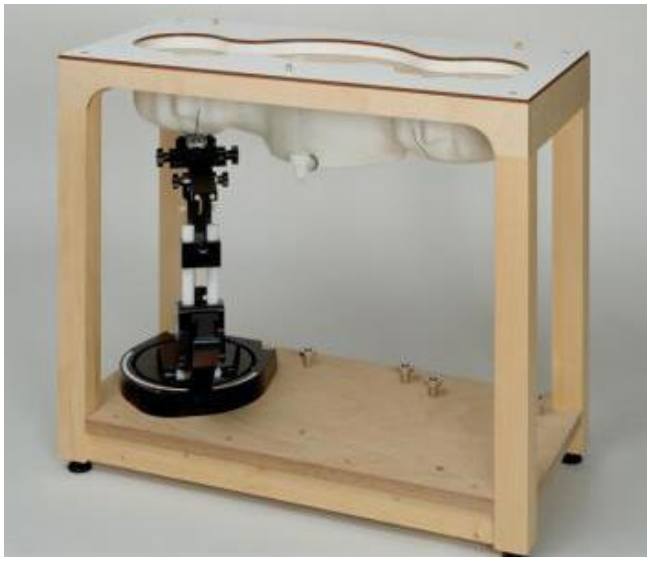
The data acquisition electronics (DAE) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converte and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information, as well as an optical uplink for commands and the clock.



- Input Impedance: 200MOhm
- The Inputs: Symmetrical and Floating
- Commom Mode Rejection: Above 80dB

4.2.5 Phantoms

For the measurements the Specific Anthropomorphic Mannequin (SAM) defined by the IEEE SCC-34/SC2 group is used. The phantom is a polyurethane shell integrated in a wooden table. The thickness of the phantom amounts to 2mm +/- 0.2mm. It enables the dosimetric evaluation of left and right phone usage and includes an additional flat phantom part for the simplified performance check. The phantom set-up includes a cover, which prevents the evaporation of the liquid.



·Left head

·Right head

·Flat phantom

Photo of Phantom SN1576

Serial Number	Material	Length	Height
SN 1576 SAM	Vinylester, glass fiber reinforced	1000	500

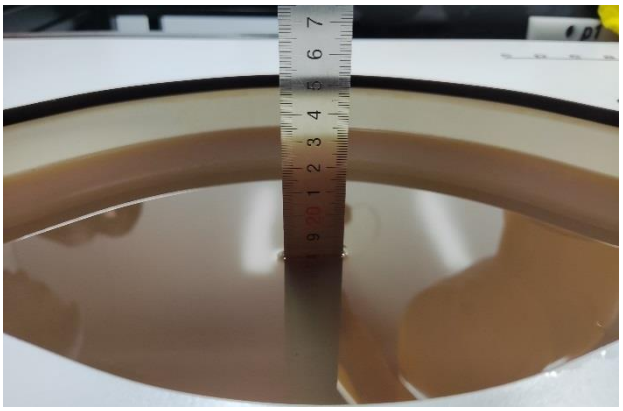
4.2.6 Device Holder

The DASY5 device holder has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of 65°. The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. This device holder is used for standard mobile phones or PDA"s only. If necessary an additional support of polystyrene material is used. Larger DUT"s (e.g. notebooks) cannot be tested using this device holder. Instead a support of bigger polystyrene cubes and thin polystyrene plates is used to position the DUT in all relevant positions to find and measure spots with maximum SAR values. Therefore those devices are normally only tested at the flat part of the SAM.

The positioning system allows obtaining cheek and tilting position with a very good accuracy. Incompliance with CENELEC, the tilt angle uncertainty is lower than 1°.

4.2.7 Simulating Liquid

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%.

Head Liquid Depth	Body Liquid Depth
	

The following table gives the recipes for tissue simulating liquid.

TSL	Manufacturer / Model	Freq Range (MHz)	Main Ingredients
Head WideBand	SPEAG HBBL600-10000V6	600-10000	Ethanediol, Sodium petroleum sulfonate, Hexylene Glycol / 2-Methyl-pentane-2.4-diol, Alkoxylated alcohol

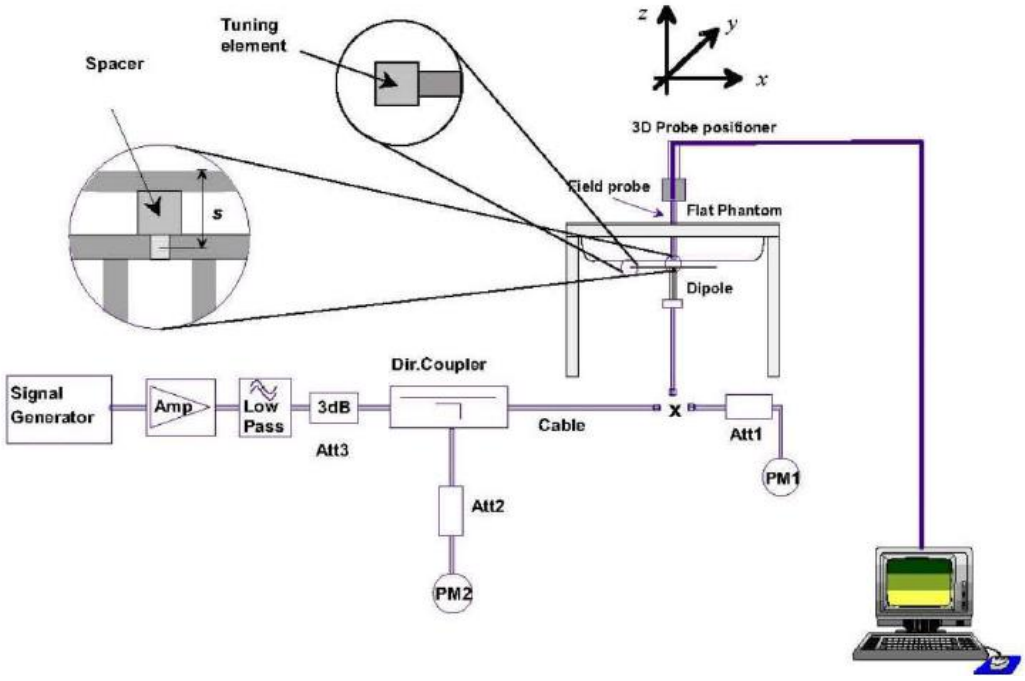
5 SYSTEM VERIFICATION

5.1 Purpose of System Check

The system performance check verifies that the system operates within its specifications. System and operator errors can be detected and corrected. It is recommended that the system performance check be performed prior to any usage of the system in order to guarantee reproducible results. The system performance check uses normal SAR measurements in a simplified setup with a well characterized source. This setup was selected to give a high sensitivity to all parameters that might fail or vary over time. The system check does not intend to replace the calibration of the components, but indicates situations where the system uncertainty is exceeded due to drift or failure.

5.2 System Check Setup

In the simplified setup for system evaluation, the EUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave that comes from a signal generator. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The equipment setup is shown below:



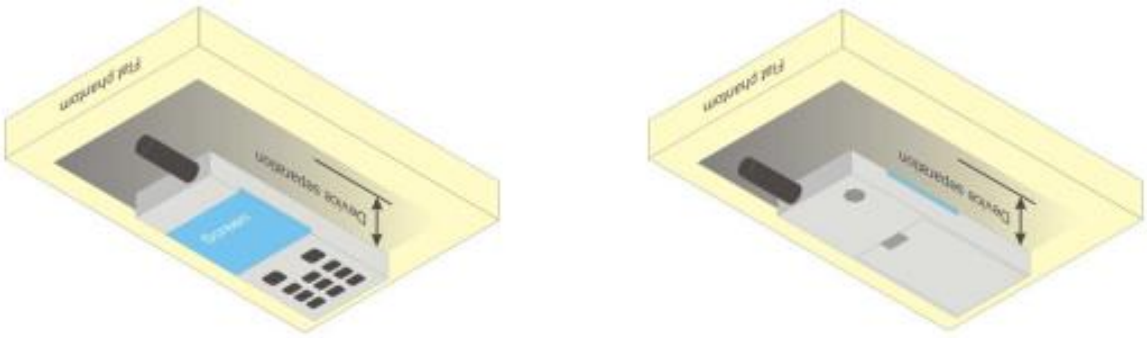
6 TEST POSITION CONFIGURATIONS

6.1 Body-worn Position 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 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.

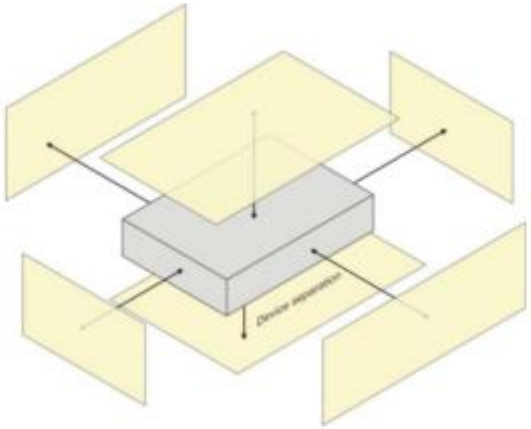
Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics.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



6.2 Hotspot Mode Exposure Position 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. 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).



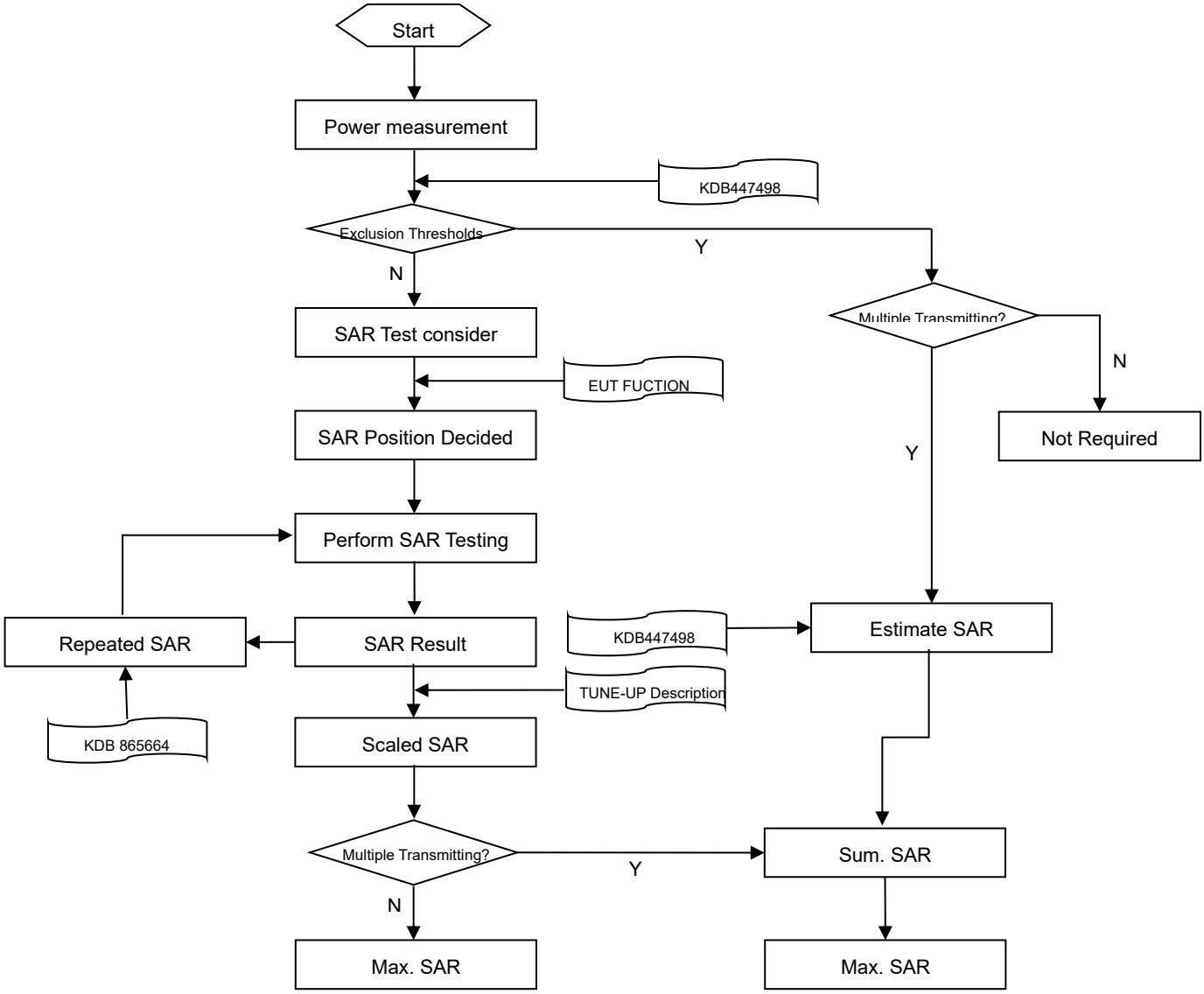
6.3 Product Specific 10g Exposure Consideration

According with FCC KDB 648474 D04, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 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, unless it is confirmed otherwise through KDB inquiries, 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;

The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at $\leqslant$ 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 reported SAR > 1.2 W/kg.

7 MEASUREMENT PROCEDURE

7.1 Measurement Process Diagram



7.2 SAR Scan General Requirement

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

<table>
<tr><th colspan="3"></th><th>≤3GHz</th><th>>3GHz</th></tr>
<tr><td colspan="3">Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface</td><td>5±1 mm</td><td>½·δ·ln(2)±0.5 mm</td></tr>
<tr><td colspan="3">Maximum probe angle from probe axis to phantom surface normal at the measurement location</td><td>30°±1°</td><td>20°±1°</td></tr>
<tr><td colspan="3" rowspan="2">Maximum area scan spatial resolution: Δx Area , Δy Area</td><td>≤ 2 GHz: ≤ 15 mm
2 – 3 GHz: ≤ 12 mm</td><td>3–4 GHz: ≤ 12 mm
4 – 6 GHz: ≤ 10 mm</td></tr>
<tr><td colspan="2">When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.</td></tr>
<tr><td colspan="3">Maximum zoom scan spatial resolution: Δx Zoom , Δy Zoom</td><td>≤ 2 GHz: ≤ 8 mm
2 –3 GHz: ≤ 5 mm*</td><td>3–4 GHz: ≤ 5 mm*
4 – 6 GHz: ≤ 4 mm*</td></tr>
<tr><td rowspan="7">Maximum zoom scan spatial resolution, normal to phantom surface</td><td colspan="2" rowspan="3">uniform grid: Δz Zoom (n)</td><td rowspan="3">≤ 5 mm</td><td>3–4 GHz: ≤ 4 mm</td></tr>
<tr><td>4–5 GHz: ≤ 3 mm</td></tr>
<tr><td>5–6 GHz: ≤ 2 mm</td></tr>
<tr><td rowspan="4">graded grid</td><td rowspan="2">Δz Zoom (1): between 1st two points closest to phantom surface</td><td rowspan="2">≤ 4 mm</td><td>3–4 GHz: ≤ 3 mm</td></tr>
<tr><td>4–5 GHz: ≤ 2.5 mm</td></tr>
<tr><td>5–6 GHz: ≤ 2 mm</td></tr>
<tr><td>Δz Zoom (n>1): between subsequent points</td><td colspan="2">≤ 1.5·Δz Zoom (n-1)</td></tr>
<tr><td rowspan="3">Minimum zoom scan volume</td><td colspan="2" rowspan="3">x, y, z</td><td rowspan="3">≥30 mm</td><td>3–4 GHz: ≥ 28 mm</td></tr>
<tr><td>4–5 GHz: ≥ 25 mm</td></tr>
<tr><td>5–6 GHz: ≥ 22 mm</td></tr>
<tr><td colspan="5">Note:
1. δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.
2. * When zoom scan is required and the reported SAR from the area scan based 1 g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.</td></tr>
</table>

7.3 Measurement Procedure

The following steps are used for each test position

a. Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface

b. Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.

c. Measurement of the SAR distribution with a grid of 8 to 16mm * 8 to16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme.

d. Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 *32 mm is assessed by measuring 5 or 8 * 5 or 8*4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

7.4 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. Area scan and zoom scan resolution setting follows KDB 865664 D01v01r04 quoted below.
When the 1 g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.

8 CONDUCTED RF OUPUT POWER

8.1 GSM

Please refer the document “BL-SZ23B0384-AP .pdf”.

8.2 WCDMA

Please refer the document “BL-SZ23B0384-AP .pdf”.

8.3 LTE

Please refer the document “BL-SZ23B0384-AP .pdf”.

8.4 WIFI

8.4.1 2.4G WIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power(dBm)	Tune-up Power Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	**19.08**	20.00	Yes
		6	2437	19.07	20.00	No
		11	2462	19.03	20.00	No
	802.11g	1	2412	16.94	17.50	No
		6	2437	16.82	17.50	No
		11	2462	15.79	16.50	No
	802.11n(HT20)	1	2412	15.64	16.50	No
		6	2437	16.73	17.50	No
		11	2462	15.22	16.00	No
	802.11n(HT40)	3	2422	13.46	14.50	No
		6	2437	16.09	17.00	No
		9	2452	12.87	14.00	No

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.

2) When multiple transmission modes (802.11b/g/n) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11b is chosen over 802.11g, and 802.11g chosen over 802.11n.

3) According KDB 247228, when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is $\leqslant$ 1.2 W/kg, OFDM SAR test is not required.

Adjusted SAR = 0.126 * (56.23mW/100.00mW) = 0.071 W/Kg, so 2.4G OFDM SAR test is not required.

8.4.2 5G WIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power(dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	15.15	16.00	No
		40	5200	15.07	16.00	No
		48	5240	14.55	16.00	No
	802.11n(HT20)	36	5180	15.03	16.00	No
		44	5220	15.01	16.00	No
		48	5240	15.19	16.00	No
	802.11n(HT40)	38	5190	14.53	16.00	No
		46	5230	14.32	16.00	No
	802.11ac(VHT20)	36	5180	14.60	16.00	No
		40	5200	14.54	16.00	No
		48	5240	14.60	16.00	No
	802.11ac(VHT40)	38	5190	14.52	16.00	No
		46	5230	14.37	16.00	No
	802.11ac(VHT80)	42	5210	**14.27**	16.00	Yes
5.3 (5.25~5.35)	802.11a	52	5260	14.68	16.00	No
		60	5300	15.01	16.00	No
		64	5320	15.00	16.00	No
	802.11n(HT20)	52	5260	14.61	16.00	No
		60	5300	14.87	16.00	No
		64	5320	14.77	16.00	No
	802.11n(HT40)	54	5270	14.97	16.00	No
		62	5310	15.18	16.00	No
	802.11ac(VHT20)	52	5260	14.52	16.00	No
		60	5300	14.71	16.00	No
		64	5320	14.72	16.00	No
	802.11ac(VHT40)	54	5270	14.50	16.00	No
		62	5310	14.65	16.00	No
	802.11ac(VHT80)	58	5290	**14.25**	16.00	Yes
5.6 (5.47~5.725)	802.11a	100	5500	**15.02**	16.00	Yes
		116	5580	14.71	16.00	No
		140	5700	13.95	15.00	No
	802.11n(HT20)	100	5500	14.88	16.00	No
		116	5580	14.51	16.00	No
		140	5700	13.78	15.00	No
	802.11n(HT40)	102	5510	13.56	15.00	No
		118	5590	14.23	15.00	No

		134	5670	13.79	15.00	No
	802.11ac(VHT20)	100	5500	14.79	15.00	No
		116	5580	14.42	15.00	No
		140	5700	13.74	15.00	No
	802.11ac(VHT40)	102	5510	14.56	15.00	No
		118	5590	14.20	15.00	No
		134	5670	13.86	15.00	No
	802.11ac(VHT80)	106	5530	13.76	15.00	No
		122	5610	13.90	15.00	No
5.8 (5.725~5.850)	802.11a	149	5745	14.21	16.00	No
		157	5785	14.18	16.00	No
		165	5825	**14.74**	16.00	Yes
	802.11n(HT20)	149	5745	14.03	16.00	No
		157	5785	14.01	16.00	No
		165	5825	14.49	16.00	No
	802.11n(HT40)	151	5755	13.78	15.00	No
		159	5795	13.95	15.00	No
	802.11ac(VHT20)	149	5745	14.01	16.00	No
		157	5785	14.01	16.00	No
		165	5825	14.42	16.00	No
	802.11ac(VHT40)	151	5755	13.76	15.00	No
		159	5795	13.94	15.00	No
	802.11ac(VHT80)	155	5775	13.51	15.00	No
Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.						

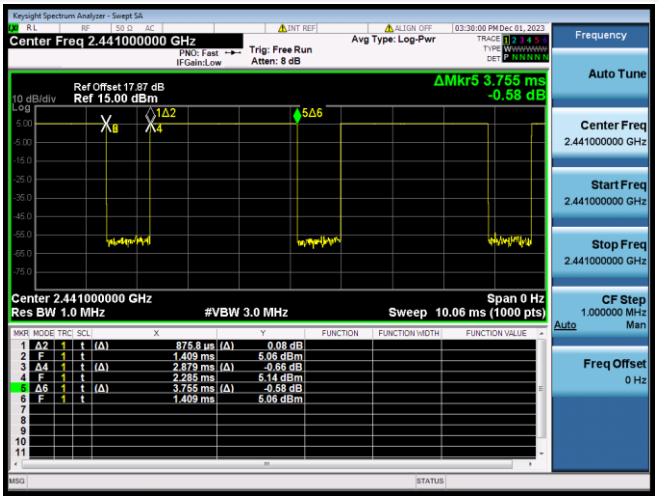
8.5 Bluetooth

Mode	GFSK			π/4-DQPSK		
Channel	0	39	78	0	39	78
Frequency (MHz)	2402	2441	2480	2402	2441	2480
Average Power(dBm)	5.15	**5.48**	5.38	4.29	4.59	4.49
Tune-Up Limit (dBm)	6.00	6.00	6.00	5.00	5.00	5.00
SAR Test Require	NO	YES	NO	NO	NO	NO
Mode	8-DPSK			/		
Channel	0	39	78	/	/	/
Frequency (MHz)	2402	2441	2480	/	/	/
Average Power(dBm)	4.25	4.62	4.58	/	/	/
Tune-Up Limit (dBm)	5.00	5.00	5.00	/	/	/
SAR Test Require	NO	NO	NO	/	/	/
Mode	BLE-1Mbps			BLE-2Mbps		
Channel	0	19	39	0	19	39
Frequency (MHz)	2402	2440	2480	2402	2440	2480
Average Power(dBm)	-1.82	-1.56	-1.70	-1.50	-1.21	-1.49
Tune-Up Limit (dBm)	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
SAR Test Require	NO	NO	NO	NO	NO	NO
Note 1: Since Bluetooth BR mode is the maximum output power mode，SAR measurements were performed with test software using DH5 modulation, and SAR measurement is not required for the EDR and LE. When the secondary mode is ≤ ¼ dB higher than the primary mode.						

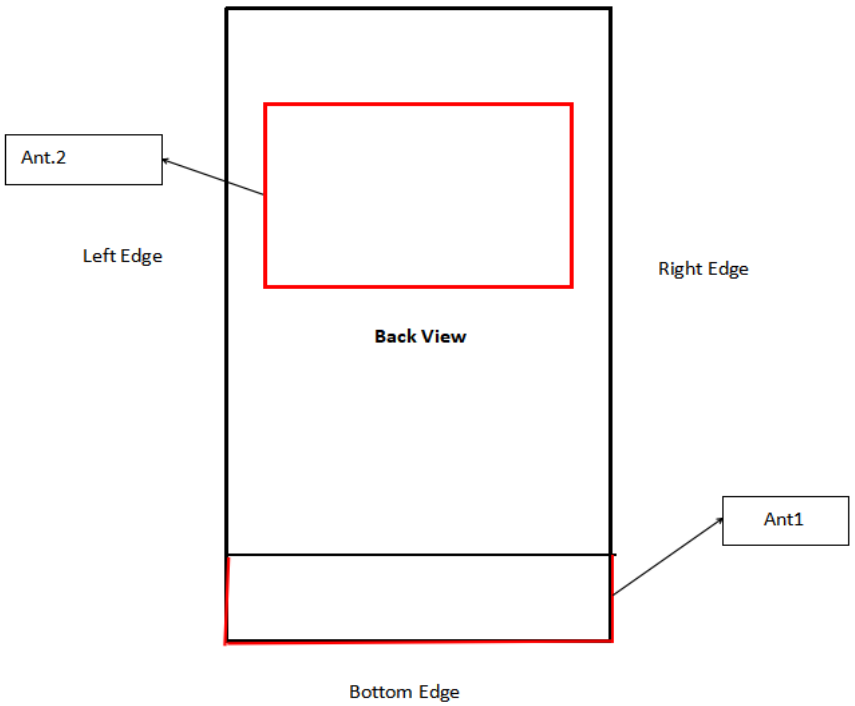
Note: The Bluetooth duty cycle is 76.67 % as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 100%, therefore the actual duty cycle will be scaled up to 100% for Bluetooth reported SAR calculation.

Duty Cycle

GFSK



9 TEST EXCLUSION CONSIDERATION



Antenna	Support Bands
Antenna.1	GSM850/1900; WCDMA B2/4/5; LTE B2/4/5/7/12/17/25/26/41
Antenna.2	WIFI 2.4G/5G; Bluetooth

Antenna	Front Side(mm)	Back Side(mm)	Left Edge(mm)	Right Edge(mm)	Top Edge(mm)	Bottom Edge(mm)
ANT1	<25	<25	<25	<25	＞25	<25
ANT2	<25	<25	<25	<25	<25	＞25
Note: 1.Per KDB 941225 D06, When the overall length and width of a device is > 9 cm *5 cm, a test separation distance of 10 mm is required for hotspot mode SAR measurements and hotspot mode SAR is measured for all edges and surfaces of the device with a transmitting antenna located within 25 mm from that surface or edge.						

10 TEST RESULT

Note: This device supports both LTE Band 17/38 and Band 12/41. Since the supported frequency span for LTE Band 17/38 falls completely within the supports frequency span for LTE Band 12/41, both LTE bands have the same target power, and both LTE bands share the same transmission path; therefore, SAR was only assessed for LTE Band 12/41.

10.1 GSM 850

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
Body-worn&Hotspot												
ANT1	GPRS 4Slots	Front Side	10	251	848.8	-0.05	0.728	28.51	29.00	1.119	**0.815**	1#
		Back Side	10	251	848.8	0.01	0.386	28.51	29.00	1.119	0.432	/
		Left Edge	10	251	848.8	0.09	0.484	28.51	29.00	1.119	0.542	/
		Right Edge	10	251	848.8	-0.05	0.295	28.51	29.00	1.119	0.330	/
		Bottom Edge	10	251	848.8	-0.15	0.472	28.51	29.00	1.119	0.528	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.												

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	10g Report SAR (W/kg)	Meas. No.
Specific												
ANT1	GPRS 4Slots	Front Side	0	251	848.8	0.09	0.621	28.51	29.00	1.119	0.695	/
		Back Side	0	251	848.8	0.10	0.685	28.51	29.00	1.119	0.767	/
		Left Edge	0	251	848.8	-0.12	0.758	28.51	29.00	1.119	0.848	/
		Right Edge	0	251	848.8	0.13	0.607	28.51	29.00	1.119	0.679	/
		Bottom Edge	0	251	848.8	0.02	0.890	28.51	29.00	1.119	**0.996**	2#
Note: Refer to ANNEX C for the detailed test data for each test configuration.												

10.2 GSM 1900

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
Body-worn&Hotspot												
ANT1	GPRS 4Slots	Front Side	10	661	1880.0	0.15	0.104	25.79	27.00	1.321	0.137	/
		Back Side	10	661	1880.0	0.10	0.239	25.79	27.00	1.321	0.316	/
		Left Edge	10	661	1880.0	0.00	0.014	25.79	27.00	1.321	0.018	/
		Right Edge	10	661	1880.0	-0.04	0.149	25.79	27.00	1.321	0.197	/
		Bottom Edge	10	661	1880.0	0.04	0.465	25.79	27.00	1.321	**0.614**	3#
Note: Refer to ANNEX C for the detailed test data for each test configuration.												

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	10g Report SAR (W/kg)	Meas. No.
Specific												
ANT1	GPRS 4Slots	Front Side	0	661	1880.0	0.04	0.145	25.79	27.00	1.321	0.192	/
		Back Side	0	661	1880.0	-0.06	0.535	25.79	27.00	1.321	0.707	/
		Left Edge	0	661	1880.0	-0.03	0.033	25.79	27.00	1.321	0.044	/
		Right Edge	0	661	1880.0	0.01	0.365	25.79	27.00	1.321	0.482	/
		Bottom Edge	0	661	1880.0	0.09	1.360	25.79	27.00	1.321	**1.797**	4#
Note: Refer to ANNEX C for the detailed test data for each test configuration.												

10.3WCDMA Band 2

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
Body-worn&Hotspot												
ANT1	RMC	Front Side	10	9262	1852.4	0.05	0.088	22.17	23.00	1.211	0.107	/
		Back Side	10	9262	1852.4	0.03	0.199	22.17	23.00	1.211	0.241	/
		Left Edge	10	9262	1852.4	0.07	0.011	22.17	23.00	1.211	0.013	/
		Right Edge	10	9262	1852.4	0.16	0.123	22.17	23.00	1.211	0.149	/
		Bottom Edge	10	9262	1852.4	-0.04	0.396	22.17	23.00	1.211	**0.480**	5#
Note: Refer to ANNEX C for the detailed test data for each test configuration.												

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift(dB)	10 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	10g Report SAR (W/kg)	Meas. No.
Specific												
ANT1	RMC	Front Side	0	9262	1852.4	-0.14	0.117	22.17	23.00	1.211	0.142	/
		Back Side	0	9262	1852.4	-0.14	0.400	22.17	23.00	1.211	0.484	/
		Left Edge	0	9262	1852.4	0.13	0.024	22.17	23.00	1.211	0.029	/
		Right Edge	0	9262	1852.4	-0.15	0.282	22.17	23.00	1.211	0.342	/
		Bottom Edge	0	9262	1852.4	0.05	1.14	22.17	23.00	1.211	**1.381**	6#
Note: Refer to ANNEX C for the detailed test data for each test configuration.												

10.4WCDMA Band 4

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
Body-worn&Hotspot												
ANT1	RMC	Front Side	10	1513	1752.6	-0.04	0.094	22.52	23.00	1.117	0.105	/
		Back Side	10	1513	1752.6	0.07	0.197	22.52	23.00	1.117	0.220	/
		Left Edge	10	1513	1752.6	0.19	0.013	22.52	23.00	1.117	0.015	/
		Right Edge	10	1513	1752.6	-0.15	0.098	22.52	23.00	1.117	0.109	/
		Bottom Edge	10	1513	1752.6	-0.04	0.372	22.52	23.00	1.117	**0.416**	7#
Note: Refer to ANNEX C for the detailed test data for each test configuration.												

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift(dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	10g Report SAR (W/kg)	Meas. No.
Specific												
ANT1	RMC	Front Side	0	1513	1752.6	0.13	0.124	22.52	23.00	1.117	0.139	/
		Back Side	0	1513	1752.6	-0.06	0.473	22.52	23.00	1.117	0.528	/
		Left Edge	0	1513	1752.6	-0.12	0.040	22.52	23.00	1.117	0.045	/
		Right Edge	0	1513	1752.6	-0.11	0.475	22.52	23.00	1.117	0.531	/
		Bottom Edge	0	1513	1752.6	0.09	1.14	22.52	23.00	1.117	**1.273**	8#
Note: Refer to ANNEX C for the detailed test data for each test configuration.												

10.5WCDMA Band 5

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
Body-worn&Hotspot												
ANT1	RMC	Front Side	10	4182	836.4	0.03	0.297	22.06	23.00	1.242	**0.369**	9#
		Back Side	10	4182	836.4	-0.03	0.159	22.06	23.00	1.242	0.197	/
		Left Edge	10	4182	836.4	0.12	0.214	22.06	23.00	1.242	0.266	/
		Right Edge	10	4182	836.4	-0.05	0.103	22.06	23.00	1.242	0.128	/
		Bottom Edge	10	4182	836.4	0.01	0.200	22.06	23.00	1.242	0.248	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.												

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	10g Report SAR (W/kg)	Meas. No.
Specific												
ANT1	RMC	Front Side	0	4182	836.4	-0.03	0.234	22.06	23.00	1.242	0.291	/
		Back Side	0	4182	836.4	0.09	0.232	22.06	23.00	1.242	0.288	/
		Left Edge	0	4182	836.4	-0.05	0.287	22.06	23.00	1.242	0.356	/
		Right Edge	0	4182	836.4	-0.03	0.191	22.06	23.00	1.242	0.237	/
		Bottom Edge	0	4182	836.4	0.15	0.331	22.06	23.00	1.242	**0.411**	10#
Note: Refer to ANNEX C for the detailed test data for each test configuration.												

10.6 LTE Band 2 (20MHz Bandwidth)

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
Body-worn&Hotspot														
ANT1	QPSK	Front	10	18700	1860	1	MID	-0.08	0.059	22.48	23.50	1.265	0.075	/
		Side	10	18700	1860	50	MID	-0.03	0.047	21.37	22.50	1.297	0.061	/
		Back	10	18700	1860	1	MID	-0.11	0.116	22.48	23.50	1.265	0.147	/
		Side	10	18700	1860	50	MID	-0.01	0.095	21.37	22.50	1.297	0.123	/
		Left	10	18700	1860	1	MID	0.00	0.016	22.48	23.50	1.265	0.020	/
		Edge	10	18700	1860	50	MID	-0.02	0.011	21.37	22.50	1.297	0.014	/
		Right	10	18700	1860	1	MID	-0.08	0.088	22.48	23.50	1.265	0.111	/
		Edge	10	18700	1860	50	MID	-0.16	0.074	21.37	22.50	1.297	0.096	/
		Bottom	10	18700	1860	1	MID	0.14	0.163	22.48	23.50	1.265	**0.206**	33#
		Edge	10	18700	1860	50	MID	0.13	0.152	21.37	22.50	1.297	0.197	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	10g Report SAR (W/kg)	Meas. No.
Specific														
ANT1	QPSK	Front	0	18700	1860	1	MID	-0.09	0.074	22.48	23.50	1.265	0.094	/
		Side	0	18700	1860	50	MID	0.16	0.062	21.37	22.50	1.297	0.080	/
		Back	0	18700	1860	1	MID	-0.01	0.077	22.48	23.50	1.265	0.097	/
		Side	0	18700	1860	50	MID	0.11	0.065	21.37	22.50	1.297	0.084	/
		Left	0	18700	1860	1	MID	0.18	0.023	22.48	23.50	1.265	0.029	/
		Edge	0	18700	1860	50	MID	-0.13	0.018	21.37	22.50	1.297	0.023	/
		Right	0	18700	1860	1	MID	0.03	0.175	22.48	23.50	1.265	0.221	/
		Edge	0	18700	1860	50	MID	-0.11	0.147	21.37	22.50	1.297	0.191	/
		Bottom	0	18700	1860	1	MID	0.09	0.568	22.48	23.50	1.265	**0.719**	34#
		Edge	0	18700	1860	50	MID	-0.11	0.485	21.37	22.50	1.297	0.629	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

10.8 LTE Band 4 (20MHz Bandwidth)

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
Body-worn&Hotspot														
ANT1	QPSK	Front Side	10	20300	1745	1	MID	0.14	0.104	23.15	23.50	1.084	0.113	/
			10	20300	1745	50	LOW	-0.19	0.091	22.01	22.50	1.119	0.102	/
		Back Side	10	20300	1745	1	MID	-0.03	0.233	23.15	23.50	1.084	0.253	/
			10	20300	1745	50	LOW	-0.09	0.201	22.01	22.50	1.119	0.225	/
		Left Edge	10	20300	1745	1	MID	-0.11	0.018	23.15	23.50	1.084	0.020	/
			10	20300	1745	50	LOW	-0.05	0.011	22.01	22.50	1.119	0.012	/
		Right Edge	10	20300	1745	1	MID	-0.18	0.122	23.15	23.50	1.084	0.132	/
			10	20300	1745	50	LOW	-0.13	0.104	22.01	22.50	1.119	0.116	/
		Bottom Edge	10	20300	1745	1	MID	-0.14	0.437	23.15	23.50	1.084	**0.474**	11#
			10	20300	1745	50	LOW	0.00	0.379	22.01	22.50	1.119	0.424	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	10g Report SAR (W/kg)	Meas. No.
Specific														
ANT1	QPSK	Front Side	0	20300	1745	1	MID	0.09	0.140	23.15	23.50	1.084	0.152	/
			0	20300	1745	50	LOW	0.05	0.124	22.01	22.50	1.119	0.139	/
		Back Side	0	20300	1745	1	MID	0.14	0.547	23.15	23.50	1.084	0.593	/
			0	20300	1745	50	LOW	0.16	0.475	22.01	22.50	1.119	0.532	/
		Left Edge	0	20300	1745	1	MID	0.14	0.029	23.15	23.50	1.084	0.031	/
			0	20300	1745	50	LOW	-0.18	0.021	22.01	22.50	1.119	0.023	/
		Right Edge	0	20300	1745	1	MID	-0.02	0.572	23.15	23.50	1.084	0.620	/
			0	20300	1745	50	LOW	-0.09	0.485	22.01	22.50	1.119	0.543	/
		Bottom Edge	0	20300	1745	1	MID	0.06	1.370	23.15	23.50	1.084	**1.485**	12#
			0	20300	1745	50	LOW	0.09	1.190	22.01	22.50	1.119	1.332	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

10.9 LTE Band 5 (10MHz Bandwidth)

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
Body-worn&Hotspot														
ANT1	QPSK	Front	10	20525	836.5	1	LOW	-0.15	0.644	21.10	22.00	1.230	**0.792**	35#
		Side	10	20525	836.5	25	LOW	0.07	0.528	20.07	21.00	1.239	0.654	/
		Back	10	20525	836.5	1	LOW	-0.12	0.335	21.10	22.00	1.230	0.412	/
		Side	10	20525	836.5	25	LOW	-0.13	0.271	20.07	21.00	1.239	0.336	/
		Left	10	20525	836.5	1	LOW	0.17	0.424	21.10	22.00	1.230	0.522	/
		Edge	10	20525	836.5	25	LOW	0.18	0.353	20.07	21.00	1.239	0.437	/
		Right	10	20525	836.5	1	LOW	0.00	0.333	21.10	22.00	1.230	0.410	/
		Edge	10	20525	836.5	25	LOW	0.10	0.252	20.07	21.00	1.239	0.312	/
		Bottom	10	20525	836.5	1	LOW	-0.09	0.340	21.10	22.00	1.230	0.418	/
		Edge	10	20525	836.5	25	LOW	-0.07	0.287	20.07	21.00	1.239	0.356	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	10g Report SAR (W/kg)	Meas. No.
Specific														
ANT1	QPSK	Front	0	20525	836.5	1	LOW	0.04	0.595	21.10	22.00	1.230	0.732	/
		Side	0	20525	836.5	25	LOW	-0.15	0.501	20.07	21.00	1.239	0.621	/
		Back	0	20525	836.5	1	LOW	-0.10	0.429	21.10	22.00	1.230	0.528	/
		Side	0	20525	836.5	25	LOW	-0.04	0.358	20.07	21.00	1.239	0.444	/
		Left	0	20525	836.5	1	LOW	-0.16	0.554	21.10	22.00	1.230	0.681	/
		Edge	0	20525	836.5	25	LOW	-0.05	0.463	20.07	21.00	1.239	0.574	/
		Right	0	20525	836.5	1	LOW	-0.17	0.436	21.10	22.00	1.230	0.536	/
		Edge	0	20525	836.5	25	LOW	0.01	0.335	20.07	21.00	1.239	0.415	/
		Bottom	0	20525	836.5	1	LOW	0.11	0.624	21.10	22.00	1.230	**0.768**	36#
		Edge	0	20525	836.5	25	LOW	0.02	0.562	20.07	21.00	1.239	0.696	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

10.10 LTE Band 7 (20MHz Bandwidth)

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
Body-worn&Hotspot														
ANT1	QPSK	Front Side	10	20850	2510	1	MID	0.05	0.116	20.43	20.50	1.016	0.118	/
			10	20850	2510	50	MID	0.00	0.097	19.32	19.50	1.042	0.101	/
		Back Side	10	20850	2510	1	MID	-0.08	0.497	20.43	20.50	1.016	0.505	/
			10	20850	2510	50	MID	0.19	0.403	19.32	19.50	1.042	0.420	/
		Left Edge	10	20850	2510	1	MID	0.06	0.069	20.43	20.50	1.016	0.070	/
			10	20850	2510	50	MID	-0.15	0.057	19.32	19.50	1.042	0.059	/
		Right Edge	10	20850	2510	1	MID	-0.01	0.087	20.43	20.50	1.016	0.088	/
			10	20850	2510	50	MID	-0.03	0.065	19.32	19.50	1.042	0.068	/
		Bottom Edge	10	20850	2510	1	MID	-0.03	1.100	20.43	20.50	1.016	**1.118**	13#
			10	20850	2510	50	MID	-0.15	0.910	19.32	19.50	1.042	0.948	/
		Bottom Edge	10	21100	2535	1	MID	-0.13	1.060	20.35	20.50	1.035	1.097	/
			10	21350	2560	1	MID	0.14	1.010	20.21	20.50	1.069	1.080	/
			10	21100	2535	50	MID	-0.06	0.835	19.24	19.50	1.062	0.887	/
			10	21350	2560	50	LOW	-0.05	0.818	19.10	19.50	1.096	0.897	/
			10	20850	2510	100	LOW	-0.11	0.928	19.30	19.50	1.047	0.972	/
Body-worn&Hotspot-Repeated SAR														
ANT1	QPSK	Bottom Edge	10	20850	2510	1	MID	0.02	1.030	20.43	20.50	1.016	1.046	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	10g Report SAR (W/kg)	Meas. No.
Specific														
ANT1	QPSK	Front Side	0	20850	2510	1	MID	0.02	0.236	23.29	23.50	1.050	0.248	/
			0	20850	2510	50	MID	0.10	0.195	22.17	22.50	1.079	0.210	/
		Back Side	0	20850	2510	1	MID	0.13	1.050	23.29	23.50	1.050	1.103	/
			0	20850	2510	50	MID	0.15	0.914	22.17	22.50	1.079	0.986	/
		Left Edge	0	20850	2510	1	MID	-0.04	0.138	23.29	23.50	1.050	0.145	/
			0	20850	2510	50	MID	-0.05	0.108	22.17	22.50	1.079	0.117	/
		Right Edge	0	20850	2510	1	MID	-0.06	0.214	23.29	23.50	1.050	0.225	/
			0	20850	2510	50	MID	0.14	0.160	22.17	22.50	1.079	0.173	/
		Bottom Edge	0	20850	2510	1	MID	-0.02	1.600	23.29	23.50	1.050	**1.680**	14#
			0	20850	2510	50	MID	-0.05	1.330	22.17	22.50	1.079	1.435	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

10.11 LTE Band 12 (10MHz Bandwidth)

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
Body-worn&Hotspot														
ANT1	QPSK	Front Side	10	23095	707.5	1	MID	-0.08	0.133	22.69	23.50	1.205	**0.160**	15#
			10	23095	707.5	25	LOW	-0.10	0.122	21.68	22.50	1.208	0.147	/
		Back Side	10	23095	707.5	1	MID	-0.01	0.095	22.69	23.50	1.205	0.114	/
			10	23095	707.5	25	LOW	-0.10	0.086	21.68	22.50	1.208	0.104	/
		Left Edge	10	23095	707.5	1	MID	-0.02	0.086	22.69	23.50	1.205	0.104	/
			10	23095	707.5	25	LOW	0.06	0.080	21.68	22.50	1.208	0.097	/
		Right Edge	10	23095	707.5	1	MID	0.17	0.070	22.69	23.50	1.205	0.084	/
			10	23095	707.5	25	LOW	-0.05	0.066	21.68	22.50	1.208	0.080	/
		Bottom Edge	10	23095	707.5	1	MID	0.11	0.091	22.69	23.50	1.205	0.110	/
			10	23095	707.5	25	LOW	-0.11	0.079	21.68	22.50	1.208	0.095	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	10g Report SAR (W/kg)	Meas. No.
Specific														
ANT1	QPSK	Front Side	0	23095	707.5	1	MID	0.11	0.105	22.69	23.50	1.205	0.127	/
			0	23095	707.5	25	LOW	0.19	0.094	21.68	22.50	1.208	0.114	/
		Back Side	0	23095	707.5	1	MID	-0.17	0.174	22.69	23.50	1.205	0.210	/
			0	23095	707.5	25	LOW	-0.10	0.150	21.68	22.50	1.208	0.181	/
		Left Edge	0	23095	707.5	1	MID	-0.09	0.135	22.69	23.50	1.205	0.163	/
			0	23095	707.5	25	LOW	-0.17	0.121	21.68	22.50	1.208	0.146	/
		Right Edge	0	23095	707.5	1	MID	-0.09	0.113	22.69	23.50	1.205	0.136	/
			0	23095	707.5	25	LOW	-0.05	0.103	21.68	22.50	1.208	0.124	/
		Bottom Edge	0	23095	707.5	1	MID	0.07	0.215	22.69	23.50	1.205	**0.259**	16#
			0	23095	707.5	25	LOW	0.02	0.176	21.68	22.50	1.208	0.213	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

10.12 LTE Band 25 (20MHz Bandwidth)

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
Body-worn&Hotspot														
ANT1	QPSK	Front Side	10	26140	1860	1	MID	0.11	0.096	22.81	23.50	1.172	0.113	/
			10	26140	1860	50	MID	0.07	0.082	21.70	22.50	1.202	0.099	/
		Back Side	10	26140	1860	1	MID	0.13	0.210	22.81	23.50	1.172	0.246	/
			10	26140	1860	50	MID	0.09	0.180	21.70	22.50	1.202	0.216	/
		Left Edge	10	26140	1860	1	MID	0.12	0.025	22.81	23.50	1.172	0.029	/
			10	26140	1860	50	MID	-0.16	0.018	21.70	22.50	1.202	0.022	/
		Right Edge	10	26140	1860	1	MID	-0.18	0.133	22.81	23.50	1.172	0.156	/
			10	26140	1860	50	MID	-0.14	0.113	21.70	22.50	1.202	0.136	/
		Bottom Edge	10	26140	1860	1	MID	0.09	0.439	22.81	23.50	1.172	0.515	17#
			10	26140	1860	50	MID	-0.07	0.391	21.70	22.50	1.202	0.470	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift(dB)	10 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	10g Report SAR (W/kg)	Meas. No.
Specific														
ANT1	QPSK	Front Side	0	26140	1860	1	MID	0.05	0.136	22.81	23.50	1.172	0.159	/
			0	26140	1860	50	MID	-0.10	0.118	21.70	22.50	1.202	0.142	/
		Back Side	0	26140	1860	1	MID	-0.04	0.477	22.81	23.50	1.172	0.559	/
			0	26140	1860	50	MID	-0.13	0.413	21.70	22.50	1.202	0.496	/
		Left Edge	0	26140	1860	1	MID	-0.16	0.023	22.81	23.50	1.172	0.027	/
			0	26140	1860	50	MID	-0.04	0.010	21.70	22.50	1.202	0.012	/
		Right Edge	0	26140	1860	1	MID	0.13	0.332	22.81	23.50	1.172	0.389	/
			0	26140	1860	50	MID	-0.02	0.288	21.70	22.50	1.202	0.346	/
		Bottom Edge	0	26140	1860	1	MID	0.04	1.260	22.81	23.50	1.172	**1.477**	18#
			0	26140	1860	50	MID	-0.04	1.130	21.70	22.50	1.202	1.358	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

10.13 LTE Band 26 (15MHz Bandwidth)

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
Body-worn&Hotspot														
ANT1	QPSK	Front Side	10	26865	831.5	1	MID	0.19	0.252	22.69	23.50	1.205	0.304	/
			10	26865	831.5	36	LOW	-0.01	0.196	21.78	22.50	1.180	0.231	/
		Back Side	10	26865	831.5	1	MID	-0.13	0.181	22.69	23.50	1.205	0.218	/
			10	26865	831.5	36	LOW	-0.16	0.149	21.78	22.50	1.180	0.176	/
		Left Edge	10	26865	831.5	1	MID	0.10	0.246	22.69	23.50	1.205	0.296	/
			10	26865	831.5	36	LOW	0.04	0.204	21.78	22.50	1.180	0.241	/
		Right Edge	10	26865	831.5	1	MID	0.06	0.144	22.69	23.50	1.205	0.174	/
			10	26865	831.5	36	LOW	0.05	0.115	21.78	22.50	1.180	0.136	/
		Bottom Edge	10	26865	831.5	1	MID	-0.12	0.372	22.69	23.50	1.205	**0.448**	19#
			10	26865	831.5	36	LOW	0.03	0.305	21.78	22.50	1.180	0.360	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	10g Report SAR (W/kg)	Meas. No.
Specific														
ANT1	QPSK	Front Side	0	26865	831.5	1	MID	0.19	0.293	22.69	23.50	1.205	0.353	/
			0	26865	831.5	36	LOW	-0.19	0.237	21.78	22.50	1.180	0.280	/
		Back Side	0	26865	831.5	1	MID	-0.15	0.291	22.69	23.50	1.205	0.351	/
			0	26865	831.5	36	LOW	0.09	0.231	21.78	22.50	1.180	0.273	/
		Left Edge	0	26865	831.5	1	MID	-0.04	0.358	22.69	23.50	1.205	0.431	/
			0	26865	831.5	36	LOW	0.01	0.290	21.78	22.50	1.180	0.342	/
		Right Edge	0	26865	831.5	1	MID	0.11	0.198	22.69	23.50	1.205	0.239	/
			0	26865	831.5	36	LOW	-0.01	0.220	21.78	22.50	1.180	0.260	/
		Bottom Edge	0	26865	831.5	1	MID	0.01	0.381	22.69	23.50	1.205	**0.459**	20#
			0	26865	831.5	36	LOW	0.05	0.299	21.78	22.50	1.180	0.353	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

10.14 LTE Band 41 (20MHz Bandwidth)

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Report SAR (W/kg)	Meas. No.
Body-worn&Hotspot														
ANT1	QPSK	Front Side	10	40140	2545	1	MID	0.01	0.097	22.86	23.00	1.033	0.100	/
			10	40140	2545	50	LOW	0.09	0.080	21.67	22.00	1.079	0.086	/
		Back Side	10	40140	2545	1	MID	0.19	0.379	22.86	23.00	1.033	0.392	/
			10	40140	2545	50	LOW	-0.07	0.311	21.67	22.00	1.079	0.336	/
		Left Edge	10	40140	2545	1	MID	0.00	0.049	22.86	23.00	1.033	0.051	/
			10	40140	2545	50	LOW	-0.06	0.040	21.67	22.00	1.079	0.043	/
		Right Edge	10	40140	2545	1	MID	0.08	0.018	22.86	23.00	1.033	0.019	/
			10	40140	2545	50	LOW	-0.05	0.015	21.67	22.00	1.079	0.016	/
		Bottom Edge	10	40140	2545	1	MID	0.16	1.020	22.86	23.00	1.033	**1.054**	21#
			10	40140	2545	50	LOW	-0.17	0.923	21.67	22.00	1.079	0.996	/
		Bottom Edge	10	40640	2595	1	MID	0.03	0.913	22.40	23.00	1.148	1.048	/
			10	41140	2645	1	MID	0.02	0.892	22.38	23.00	1.153	1.028	/
			10	40640	2595	50	HIGH	-0.15	0.852	21.17	22.00	1.211	1.032	/
			10	41140	2645	50	LOW	-0.13	0.607	21.17	22.00	1.211	0.735	/
			10	40140	2545	100	LOW	-0.15	0.725	21.64	22.00	1.086	0.787	/
Body-worn&Hotspot-Repeated SAR														
ANT1	QPSK	Bottom Edge	10	40140	2545	1	MID	0.01	0.994	22.86	23.00	1.033	1.027	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	10g Report SAR (W/kg)	Meas. No.
Specific														
ANT1	QPSK	Front Side	0	40140	2545	1	MID	0.19	0.224	22.86	23.00	1.033	0.231	/
			0	40140	2545	50	MID	-0.05	0.185	21.67	22.00	1.079	0.200	/
		Back Side	0	40140	2545	1	MID	-0.14	0.990	22.86	23.00	1.033	1.023	/
			0	40140	2545	50	MID	-0.01	0.826	21.67	22.00	1.079	0.891	/
		Left Edge	0	40140	2545	1	MID	0.16	0.106	22.86	23.00	1.033	0.109	/
			0	40140	2545	50	MID	-0.10	0.087	21.67	22.00	1.079	0.094	/
		Right Edge	0	40140	2545	1	MID	0.11	0.094	22.86	23.00	1.033	0.097	/
			0	40140	2545	50	MID	0.16	0.077	21.67	22.00	1.079	0.083	/
		Bottom Edge	0	40140	2545	1	MID	0.12	1.570	22.86	23.00	1.033	**1.622**	22#
			0	40140	2545	50	MID	-0.11	1.420	21.67	22.00	1.079	1.532	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

10.15 WIFI 2.4GHz

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1g Report SAR (W/kg)	Meas. No.
Body-worn&Hotspot														
ANT2	802.11 b	Front Side	10	1	2412	-0.09	0.101	19.08	20.00	1.236	99.32	1.007	**0.126**	23#
		Back Side	10	1	2412	0.14	0.059	19.08	20.00	1.236	99.32	1.007	0.073	/
		Left Edge	10	1	2412	-0.12	0.072	19.08	20.00	1.236	99.32	1.007	0.090	/
		Right Edge	10	1	2412	0.02	0.067	19.08	20.00	1.236	99.32	1.007	0.083	/
		Top Edge	10	1	2412	-0.14	0.085	19.08	20.00	1.236	99.32	1.007	0.106	/
		Bottom Edge	10	1	2412	-0.13	0.006	19.08	20.00	1.236	99.32	1.007	0.007	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	10g Report SAR (W/kg)	Meas. No.
Specific														
ANT2	802.11 b	Front Side	0	1	2412	-0.19	0.068	19.08	20.00	1.236	99.32	1.007	0.085	/
		Back Side	0	1	2412	0.19	0.038	19.08	20.00	1.236	99.32	1.007	0.047	/
		Left Edge	0	1	2412	-0.14	0.077	19.08	20.00	1.236	99.32	1.007	0.096	/
		Right Edge	0	1	2412	0.09	0.100	19.08	20.00	1.236	99.32	1.007	**0.124**	24#
		Top Edge	0	1	2412	0.13	0.074	19.08	20.00	1.236	99.32	1.007	0.092	/
		Bottom Edge	0	1	2412	-0.08	0.008	19.08	20.00	1.236	99.32	1.007	0.010	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

10.16 WIFI 5GHz

Antenna	Band	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1g Report SAR (W/kg)	Meas. No.
Body-worn															
5.3G	802.11ac80	ANT1	Front Side	10	58	5290	-0.08	0.027	14.25	16.00	1.496	87.91	1.138	0.046	/
			Back Side	10	58	5290	0.01	0.124	14.25	16.00	1.496	87.91	1.138	**0.211**	25#
5.6G	802.11a	ANT1	Front Side	10	100	5500	0.05	0.085	15.02	16.00	1.253	96.66	1.035	0.110	/
			Back Side	10	100	5500	0.13	0.192	15.02	16.00	1.253	96.66	1.035	**0.249**	26#
Hotspot															
ANT2	5.2G	802.11ac80	Front Side	10	42	5210	-0.01	0.017	14.27	16.00	1.489	87.91	1.138	0.029	/
			Back Side	10	42	5210	-0.07	0.028	14.27	16.00	1.489	87.91	1.138	0.047	/
			Left Edge	10	42	5210	0.05	0.053	14.27	16.00	1.489	87.91	1.138	**0.090**	27#
			Right Edge	10	42	5210	-0.19	0.026	14.27	16.00	1.489	87.91	1.138	0.044	/
			Top Edge	10	42	5210	0.07	0.015	14.27	16.00	1.489	87.91	1.138	0.025	/
			Bottom Edge	10	42	5210	-0.13	0.007	14.27	16.00	1.489	87.91	1.138	0.012	/
ANT2	5.8G	802.11a	Front Side	10	165	5825	-0.14	0.042	14.74	16.00	1.337	96.66	1.035	0.058	/
			Back Side	10	165	5825	-0.02	0.145	14.74	16.00	1.337	96.66	1.035	**0.201**	28#
			Left Edge	10	165	5825	-0.05	0.107	14.74	16.00	1.337	96.66	1.035	0.148	/
			Right Edge	10	165	5825	0.09	0.069	14.74	16.00	1.337	96.66	1.035	0.095	/
			Top Edge	10	165	5825	0.05	0.053	14.74	16.00	1.337	96.66	1.035	0.073	/
			Bottom Edge	10	165	5825	0.01	0.013	14.74	16.00	1.337	96.66	1.035	0.018	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

Antenna	Band	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	10g Report SAR (W/kg)	Meas. No.
Specific															
ANT2	5.3G	802.11ac80	Front Side	0	58	5290	-0.06	0.018	14.25	16.00	1.496	87.91	1.138	0.031	/
			Back Side	0	58	5290	-0.15	0.035	14.25	16.00	1.496	87.91	1.138	0.060	/
			Left Edge	0	58	5290	0.06	0.053	14.25	16.00	1.496	87.91	1.138	**0.090**	29#
			Right Edge	0	58	5290	0.16	0.024	14.25	16.00	1.496	87.91	1.138	0.041	/
			Top Edge	0	58	5290	-0.02	0.024	14.25	16.00	1.496	87.91	1.138	0.041	/
			Bottom Edge	0	58	5290	0.08	0.012	14.25	16.00	1.496	87.91	1.138	0.020	/
ANT2	5.6G	802.11a	Front Side	0	100	5500	0.12	0.025	15.02	16.00	1.253	96.66	1.035	0.032	/
			Back Side	0	100	5500	-0.14	0.051	15.02	16.00	1.253	96.66	1.035	0.066	/
			Left Edge	0	100	5500	0.02	0.052	15.02	16.00	1.253	96.66	1.035	**0.067**	30#
			Right Edge	0	100	5500	-0.15	0.037	15.02	16.00	1.253	96.66	1.035	0.048	/
			Top Edge	0	100	5500	0.07	0.046	15.02	16.00	1.253	96.66	1.035	0.060	/
			Bottom Edge	0	100	5500	-0.11	0.012	15.02	16.00	1.253	96.66	1.035	0.016	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.17 Bluetooth

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1g Report SAR (W/kg)	Meas. No.
Body-worn&Hotspot														
ANT2	DH5	Front Side	10	39	2441	0.02	0.015	5.48	6.0	1.127	76.67	1.304	**0.022**	31#
		Back Side	10	39	2441	0.15	0.006	5.48	6.0	1.127	76.67	1.304	0.009	/
		Left Edge	10	39	2441	-0.05	0.009	5.48	6.0	1.127	76.67	1.304	0.013	/
		Right Edge	10	39	2441	0.16	0.007	5.48	6.0	1.127	76.67	1.304	0.010	/
		Top Edge	10	39	2441	0.14	0.012	5.48	6.0	1.127	76.67	1.304	0.018	/
		Bottom Edge	10	39	2441	-0.08	0.002	5.48	6.0	1.127	76.67	1.304	0.003	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	10g Report SAR (W/kg)	Meas. No.
Specific														
ANT2	DH5	Front Side	0	39	2441	-0.08	0.008	5.48	6.0	1.127	76.67	1.304	0.012	/
		Back Side	0	39	2441	-0.13	0.005	5.48	6.0	1.127	76.67	1.304	0.007	/
		Left Edge	0	39	2441	0.02	0.010	5.48	6.0	1.127	76.67	1.304	0.015	/
		Right Edge	0	39	2441	0.03	0.011	5.48	6.0	1.127	76.67	1.304	**0.016**	32#
		Top Edge	0	39	2441	0.05	0.009	5.48	6.0	1.127	76.67	1.304	0.013	/
		Bottom Edge	0	39	2441	-0.18	0.002	5.48	6.0	1.127	76.67	1.304	0.003	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

10.18 NFC SAR

1. According to the 2022.04 TCBC Workshop meeting, the power threshold is ≤ 100MHz, refer to P6s.

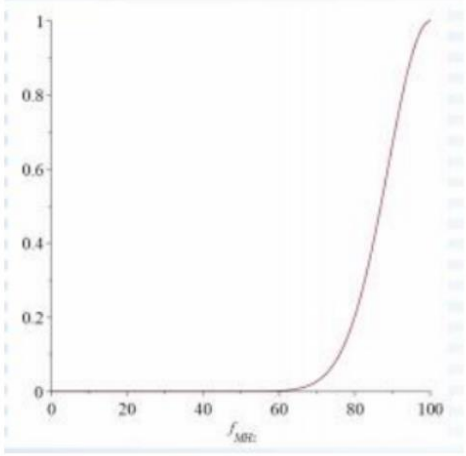
$$P_{7X}(d_{mm}, f_{MHz}) := \begin{cases} P_{6S}(d_{mm}, f_{MHz}) & f_{MHz} \le 100 \\ P_{6to7}(d_{mm}, f_{MHz}) & 100 < f_{MHz} \le 300 \\ P_{7}(d_{mm}, f_{MHz}) & 300 < f_{MHz} \end{cases}$$

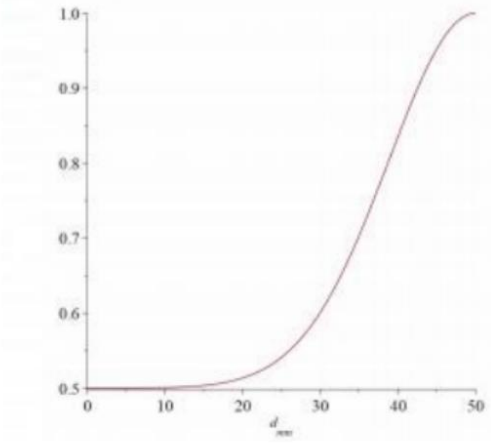
2. For portable products, when using a distance of ≤ 50mm, such as mobile phone NFC, P6s is calculated with the following formula calculate.

$$S_f(f_{MHz}) \cdot P_{431a}(d_{mm}, f_{MHz}) + (1 - S_f(f_{MHz})) \cdot S_d(d_{mm}) P_{431b1}(50., 100.) \cdot \left(1. + log10\left(\frac{100.}{f_{MHz}}\right)\right) \qquad d_{mm} \le 50 \text{ and } f_{MHz} \le 100$$

3. The smoothing functions Sf and Sd in P6s calculate the limits based on KDB 447498 V06 and are calculated as follows.

$$S_f(f_{MHz}) := exp\left(-10\frac{(f_{MHz} - f_{max})^2}{\Delta f^2}\right) \qquad S_d(d_{mm}) := 0.5 + 0.5 \cdot exp\left(-10\frac{(d_{mm} - d_{max})^2}{\Delta d^2}\right)$$





d≤50mm				
f Max(MHz)	100		d Max(mm)	50
f MHz	13.56		d(mm)	5
△f(MHz)	100		△d	50
Sf(fMHz)	0.000568861		Sd（dmm）	0.50015177
P6s(mW)	443.1257378			
Note: SAR testing is required when the distance is 5mm and the power is greater than 443.13mW.				

4. According to the ANSI C63.10 clause 11.12.2.2:

The value of maximum peak output power is according to the method described in ANSI C63.10 clause 11.12.2.2 General procedure for conducted measurements in restricted bands:

a) Measure the conducted output power (in dBm) using the detector specified (see guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).

b) Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the ERP level (see guidance on determining the applicable antenna gain)

c) Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies ≤ 30 MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies > 1000 MHz).

d) For devices with multiple antenna-ports, measure the power of each individual chain and sum the ERP of all chains in linear terms (e.g., Watts, mW).

e) Convert the resultant ERP level to an equivalent electric field strength using the following relationship: E = EIRP - 20log D + 104.8

where:

E = electric field strength in dBμV/m,

ERP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

Mode	f (MHz)	Max. E-Field strength (dBuV/m)	D (m)	Ground reflection factor (dB)	EIRP (dBm)
NFC (13.56MHz)	13.56	78.28	3	6	-10.98
Note: 1. Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies ≤ 30 MHz). 2.EIRP= 78.28+20*Log(3) - 104.8 + 6 =-10.98 (dBm)					

According to the FCC KDB 447498 D04

Estimated SAR: SAR test =1.6 · Pant / Pth [W/kg]

Estimated SAR	1.6 ·Pant / Pth [W/kg]		
Pmeas.(dBm)	-10.98	Pmeas.(mW)	0.07984
Pth.(mW)	443.13		
NFC Estimated 1g SAR [W/kg]	＜0.001		

11 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.

Frequency Band (MHz)	Wireless Band	Antenna	RF Exposure Conditions	Test Position	Highest Measured SAR (W/kg)	Repeated SAR (Yes/No)	Highest Measured SAR (W/kg)	Largest to Smallest SAR Radio
2510	LTE B7	Ant1	Body	Bottom Edge	1.100	Yes	1.030	1.07
2545	LTE B41	Ant1	Body	Bottom Edge	1.020	Yes	0.994	1.03
Note: The ratio of largest to smallest SAR for the original and first repeated measurements is < 1.20, the second repeated measurement is not required.								

12 SIMULTANEOUS TRANSMISSION

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 SAR to Peak Location Ratio (SPLSR).

12.1 Simultaneous Transmission Mode Consider

No.	Simultaneous Tx Combination	Hotspot	Specific
1	WWAN+2.4GWIFI	Yes	Yes
2	WWAN+5GWIFI+ BT	Yes	Yes

Note:

1. The maximum SAR summation is calculated based on the same configuration and test position.
2. The simultaneous transmission combinations of the more antennas contain combinations of less antennas, so only the worst simultaneous transmission combinations is shown in this report.

12.2 Sum SAR of Simultaneous Transmission

12.2.1 Body-worn&Hotspot Simultaneous Transmission SAR Evaluation for WWAN Antenna with WLAN and Bluetooth

Band	Position	Stand alone SAR				SUM SAR	
		1	2	3	4		
		WWAN	Max. 2.4GWIFI	Max.5GWIFI	BT	WWAN+Max. 2.4GWIFI (1+2)	WWAN+Max. 5GWIFI+Max. BT (1+3+4)
GSM850	Front Side 10mm	0.815	0.126	0.058	0.022	0.941	0.895
	Back Side 10mm	0.432	0.073	0.201	0.009	0.505	0.642
	Left Edge 10mm	0.542	0.090	0.148	0.013	0.632	0.703
	Right Edge 10mm	0.330	0.083	0.095	0.010	0.413	0.435
	Top Edge 10mm	0.000	0.106	0.025	0.018	0.106	0.043
	Bottom Edge 10mm	0.528	0.000	0.000	0.000	0.528	0.528
GSM1900	Front Side 10mm	0.137	0.126	0.058	0.022	0.263	0.217
	Back Side 10mm	0.316	0.073	0.201	0.009	0.389	0.526
	Left Edge 10mm	0.018	0.090	0.148	0.013	0.108	0.179
	Right Edge 10mm	0.197	0.083	0.095	0.010	0.280	0.302
	Top Edge 10mm	0.000	0.106	0.025	0.018	0.106	0.043
	Bottom Edge 10mm	0.614	0.000	0.000	0.000	0.614	0.614
WCDMA B2	Front Side 10mm	0.107	0.126	0.058	0.022	0.233	0.187
	Back Side 10mm	0.241	0.073	0.201	0.009	0.314	0.451
	Left Edge 10mm	0.013	0.090	0.148	0.013	0.103	0.174
	Right Edge 10mm	0.149	0.083	0.095	0.010	0.232	0.254
	Top Edge 10mm	0.000	0.106	0.025	0.018	0.106	0.043
	Bottom Edge 10mm	0.480	0.000	0.000	0.000	0.480	0.480
WCDMA B4	Front Side 10mm	0.105	0.126	0.058	0.022	0.231	0.185
	Back Side 10mm	0.220	0.073	0.201	0.009	0.293	0.430
	Left Edge 10mm	0.015	0.090	0.148	0.013	0.105	0.176
	Right Edge 10mm	0.109	0.083	0.095	0.010	0.192	0.214
	Top Edge 10mm	0.000	0.106	0.025	0.018	0.106	0.043
	Bottom Edge 10mm	0.416	0.000	0.000	0.000	0.416	0.416
WCDMA B5	Front Side 10mm	0.369	0.126	0.058	0.022	0.495	0.449
	Back Side 10mm	0.197	0.073	0.201	0.009	0.270	0.407
	Left Edge 10mm	0.266	0.090	0.148	0.013	0.356	0.427
	Right Edge 10mm	0.128	0.083	0.095	0.010	0.211	0.233
	Top Edge 10mm	0.000	0.106	0.025	0.018	0.106	0.043
	Bottom Edge 10mm	0.248	0.000	0.000	0.000	0.248	0.248
LTE B2	Front Side 10mm	0.075	0.126	0.058	0.022	0.201	0.155
	Back Side 10mm	0.147	0.073	0.201	0.009	0.220	0.357
	Left Edge 10mm	0.020	0.090	0.148	0.013	0.110	0.181
	Right Edge 10mm	0.111	0.083	0.095	0.010	0.194	0.216

	Top Edge 10mm	0.000	0.106	0.025	0.018	0.106	0.043
	Bottom Edge 10mm	0.206	0.000	0.000	0.000	0.206	0.206
LTE B4	Front Side 10mm	0.113	0.126	0.058	0.022	0.239	0.193
	Back Side 10mm	0.253	0.073	0.201	0.009	0.326	0.463
	Left Edge 10mm	0.020	0.090	0.148	0.013	0.110	0.181
	Right Edge 10mm	0.132	0.083	0.095	0.010	0.215	0.237
	Top Edge 10mm	0.000	0.106	0.025	0.018	0.106	0.043
	Bottom Edge 10mm	0.474	0.000	0.000	0.000	0.474	0.474
LTE B5	Front Side 10mm	0.792	0.126	0.058	0.022	0.918	0.872
	Back Side 10mm	0.412	0.073	0.201	0.009	0.485	0.622
	Left Edge 10mm	0.522	0.090	0.148	0.013	0.612	0.683
	Right Edge 10mm	0.410	0.083	0.095	0.010	0.493	0.515
	Top Edge 10mm	0.000	0.106	0.025	0.018	0.106	0.043
	Bottom Edge 10mm	0.418	0.000	0.000	0.000	0.418	0.418
LTE B7	Front Side 10mm	0.122	0.126	0.058	0.022	0.248	0.202
	Back Side 10mm	0.522	0.073	0.201	0.009	0.595	0.732
	Left Edge 10mm	0.072	0.090	0.148	0.013	0.162	0.233
	Right Edge 10mm	0.091	0.083	0.095	0.010	0.174	0.196
	Top Edge 10mm	0.000	0.106	0.025	0.018	0.106	0.043
	Bottom Edge 10mm	1.155	0.000	0.000	0.000	1.155	**1.155**
LTE B12	Front Side 10mm	0.160	0.126	0.058	0.022	0.286	0.240
	Back Side 10mm	0.114	0.073	0.201	0.009	0.187	0.324
	Left Edge 10mm	0.104	0.090	0.148	0.013	0.194	0.265
	Right Edge 10mm	0.084	0.083	0.095	0.010	0.167	0.189
	Top Edge 10mm	0.000	0.106	0.025	0.018	0.106	0.043
	Bottom Edge 10mm	0.110	0.000	0.000	0.000	0.110	0.110
LTE B25	Front Side 10mm	0.113	0.126	0.058	0.022	0.239	0.193
	Back Side 10mm	0.246	0.073	0.201	0.009	0.319	0.456
	Left Edge 10mm	0.029	0.090	0.148	0.013	0.119	0.190
	Right Edge 10mm	0.156	0.083	0.095	0.010	0.239	0.261
	Top Edge 10mm	0.000	0.106	0.025	0.018	0.106	0.043
	Bottom Edge 10mm	0.515	0.000	0.000	0.000	0.515	0.515
LTE B26	Front Side 10mm	0.304	0.126	0.058	0.022	0.430	0.384
	Back Side 10mm	0.218	0.073	0.201	0.009	0.291	0.428
	Left Edge 10mm	0.296	0.090	0.148	0.013	0.386	0.457
	Right Edge 10mm	0.174	0.083	0.095	0.010	0.257	0.279
	Top Edge 10mm	0.000	0.106	0.025	0.018	0.106	0.043
	Bottom Edge 10mm	0.448	0.000	0.000	0.000	0.448	0.448
LTE B41	Front Side 10mm	0.100	0.126	0.058	0.022	0.226	0.180
	Back Side 10mm	0.392	0.073	0.201	0.009	0.465	0.602
	Left Edge 10mm	0.051	0.090	0.148	0.013	0.141	0.212
	Right Edge 10mm	0.019	0.083	0.095	0.010	0.102	0.124
	Top Edge 10mm	0.000	0.106	0.025	0.018	0.106	0.043

	Bottom Edge 10mm	1.054	0.000	0.000	0.000	1.054	1.054

Note:

1: The simultaneous transmission combinations of the three antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 1g SAR is 1.155 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

12.2.2 Specific Simultaneous Transmission SAR Evaluation for WWAN Antenna with WLAN and Bluetooth

Band	Position	Stand alone SAR				SUM SAR	
		1	2	3	4		
		WWAN	Max. 2.4GWIFI	Max.5GWIFI	BT	WWAN+Max. 2.4GWIFI (1+2)	WWAN+Max. 5GWIFI+Max. BT (1+3+4)
GSM850	Front Side 0mm	0.695	0.085	0.032	0.012	0.780	0.739
	Back Side 0mm	0.767	0.047	0.066	0.007	0.814	0.840
	Left Edge 0mm	0.848	0.096	0.090	0.015	0.944	0.953
	Right Edge 0mm	0.679	0.124	0.048	0.016	0.803	0.743
	Top Edge 0mm	0.000	0.092	0.060	0.013	0.092	0.073
	Bottom Edge 0mm	0.996	0.000	0.000	0.000	0.996	0.996
GSM1900	Front Side 0mm	0.192	0.085	0.032	0.012	0.277	0.236
	Back Side 0mm	0.707	0.047	0.066	0.007	0.754	0.780
	Left Edge 0mm	0.044	0.096	0.090	0.015	0.140	0.149
	Right Edge 0mm	0.482	0.124	0.048	0.016	0.606	0.546
	Top Edge 0mm	0.000	0.092	0.060	0.013	0.092	0.073
	Bottom Edge 0mm	1.797	0.000	0.000	0.000	1.797	**1.797**
WCDMA B2	Front Side 0mm	0.142	0.085	0.032	0.012	0.227	0.186
	Back Side 0mm	0.484	0.047	0.066	0.007	0.531	0.557
	Left Edge 0mm	0.029	0.096	0.090	0.015	0.125	0.134
	Right Edge 0mm	0.342	0.124	0.048	0.016	0.466	0.406
	Top Edge 0mm	0.000	0.092	0.060	0.013	0.092	0.073
	Bottom Edge 0mm	1.381	0.000	0.000	0.000	1.381	1.381
WCDMA B4	Front Side 0mm	0.139	0.085	0.032	0.012	0.224	0.183
	Back Side 0mm	0.528	0.047	0.066	0.007	0.575	0.601
	Left Edge 0mm	0.045	0.096	0.090	0.015	0.141	0.150
	Right Edge 0mm	0.531	0.124	0.048	0.016	0.655	0.595
	Top Edge 0mm	0.000	0.092	0.060	0.013	0.092	0.073
	Bottom Edge 0mm	1.273	0.000	0.000	0.000	1.273	1.273
WCDMA B5	Front Side 0mm	0.291	0.085	0.032	0.012	0.376	0.335
	Back Side 0mm	0.288	0.047	0.066	0.007	0.335	0.361
	Left Edge 0mm	0.356	0.096	0.090	0.015	0.452	0.461
	Right Edge 0mm	0.237	0.124	0.048	0.016	0.361	0.301
	Top Edge 0mm	0.000	0.092	0.060	0.013	0.092	0.073
	Bottom Edge 0mm	0.411	0.000	0.000	0.000	0.411	0.411
LTE B2	Front Side 0mm	0.094	0.085	0.032	0.012	0.179	0.138
	Back Side 0mm	0.097	0.047	0.066	0.007	0.144	0.170
	Left Edge 0mm	0.029	0.096	0.090	0.015	0.125	0.134
	Right Edge 0mm	0.221	0.124	0.048	0.016	0.345	0.285
	Top Edge 0mm	0.000	0.092	0.060	0.013	0.092	0.073

	Bottom Edge 0mm	0.719	0.000	0.000	0.000	0.719	0.719
LTE B4	Front Side 0mm	0.152	0.085	0.032	0.012	0.237	0.196
	Back Side 0mm	0.593	0.047	0.066	0.007	0.640	0.666
	Left Edge 0mm	0.031	0.096	0.090	0.015	0.127	0.136
	Right Edge 0mm	0.620	0.124	0.048	0.016	0.744	0.684
	Top Edge 0mm	0.000	0.092	0.060	0.013	0.092	0.073
	Bottom Edge 0mm	1.485	0.000	0.000	0.000	1.485	1.485
LTE B5	Front Side 0mm	0.732	0.085	0.032	0.012	0.817	0.776
	Back Side 0mm	0.528	0.047	0.066	0.007	0.575	0.601
	Left Edge 0mm	0.681	0.096	0.090	0.015	0.777	0.786
	Right Edge 0mm	0.536	0.124	0.048	0.016	0.660	0.600
	Top Edge 0mm	0.000	0.092	0.060	0.013	0.092	0.073
	Bottom Edge 0mm	0.768	0.000	0.000	0.000	0.768	0.768
LTE B7	Front Side 0mm	0.248	0.085	0.032	0.012	0.333	0.292
	Back Side 0mm	1.103	0.047	0.066	0.007	1.150	1.176
	Left Edge 0mm	0.145	0.096	0.090	0.015	0.241	0.250
	Right Edge 0mm	0.225	0.124	0.048	0.016	0.349	0.289
	Top Edge 0mm	0.000	0.092	0.060	0.013	0.092	0.073
	Bottom Edge 0mm	1.680	0.000	0.000	0.000	1.680	1.680
LTE B12	Front Side 0mm	0.127	0.085	0.032	0.012	0.212	0.171
	Back Side 0mm	0.210	0.047	0.066	0.007	0.257	0.283
	Left Edge 0mm	0.163	0.096	0.090	0.015	0.259	0.268
	Right Edge 0mm	0.136	0.124	0.048	0.016	0.260	0.200
	Top Edge 0mm	0.000	0.092	0.060	0.013	0.092	0.073
	Bottom Edge 0mm	0.259	0.000	0.000	0.000	0.259	0.259
LTE B25	Front Side 0mm	0.159	0.085	0.032	0.012	0.244	0.203
	Back Side 0mm	0.559	0.047	0.066	0.007	0.606	0.632
	Left Edge 0mm	0.027	0.096	0.090	0.015	0.123	0.132
	Right Edge 0mm	0.389	0.124	0.048	0.016	0.513	0.453
	Top Edge 0mm	0.000	0.092	0.060	0.013	0.092	0.073
	Bottom Edge 0mm	1.477	0.000	0.000	0.000	1.477	1.477
LTE B26	Front Side 0mm	0.353	0.085	0.032	0.012	0.438	0.397
	Back Side 0mm	0.351	0.047	0.066	0.007	0.398	0.424
	Left Edge 0mm	0.431	0.096	0.090	0.015	0.527	0.536
	Right Edge 0mm	0.239	0.124	0.048	0.016	0.363	0.303
	Top Edge 0mm	0.000	0.092	0.060	0.013	0.092	0.073
	Bottom Edge 0mm	0.459	0.000	0.000	0.000	0.459	0.459
LTE B41	Front Side 0mm	0.231	0.085	0.032	0.012	0.316	0.275
	Back Side 0mm	1.023	0.047	0.066	0.007	1.070	1.096
	Left Edge 0mm	0.109	0.096	0.090	0.015	0.205	0.214
	Right Edge 0mm	0.097	0.124	0.048	0.016	0.221	0.161
	Top Edge 0mm	0.000	0.092	0.060	0.013	0.092	0.073
	Bottom Edge 0mm	1.622	0.000	0.000	0.000	1.622	1.622

Note:

1: The simultaneous transmission combinations of the three antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 1g SAR is 1.797 W/Kg < 4.0 W/kg, so Simultaneous Transmission SAR test is not required.

12.2.3 Highest Total Exposure Ratio of Simultaneous Transmission

NFC multi-transmit requires the use of the TER formula:

$$TER = \sum_{k=1}^{N_S}\left(\frac{SAR_k}{SAR_{\lim}}\right) + \sum_{k=1}^{N_f}\left(\frac{MPE_{field,\,k}}{MPE_{field,\,\lim}}\right)^2 + \sum_{k=1}^{N_{PD}}\left(\frac{MPE_{PD,\,k}}{MPE_{PD,\,\lim}}\right)$$

The maximum SAR value for Simultaneous Transmission is 1.155 [W/kg], Therefore, the worst TER =(1.155+0.001)/1.60 = 0.723＜1,the NFC SAR transmit simultaneously Pass.

13 TEST EQUIPMENTS LIST

Description	Manufacturer	Model	Serial No./Version	Cal. Date	Cal. Due
PC	Dell	N/A	N/A	N/A	N/A
Test Software	Speag	DASY5	52.8.8.1222	N/A	N/A
750MHz Validation Dipole	Speag	D750V3	SN: 1208	2021/07/05	2024/07/05
835MHz Validation Dipole	Speag	D835V2	SN: 4d187	2021/05/17	2024/05/17
1750MHz Validation Dipole	Speag	D1750V2	SN: 1130	2021/05/17	2024/05/17
1900MHz Validation Dipole	Speag	D1900V2	SN: 5d193	2021/05/20	2024/05/20
2450MHz Validation Dipole	Speag	D2450V2	SN: 952	2021/05/19	2024/05/19
2600MHz Validation Dipole	Speag	D2600V2	SN: 1095	2021/05/19	2024/05/19
5GHz Validation Dipole	Speag	D5GHzV2	SN: 1200	2021/05/18	2024/05/18
E-Field Probe	Speag	EX3DV4	SN: 7510	2023/01/19	2024/01/19
Data Acquisition Electronicsr	Speag	DAE4	SN: 1710	2023/01/30	2024/01/30
Data Acquisition Electronicsr	Speag	DAE4	SN: 1711	2023/03/17	2024/03/17
Signal Generator	R&S	SMB100A	177746	2023/05/10	2024/05/10
Power Meter	R&S	NRVD-B2	835843/014	2023/09/05	2024/09/05
Power Sensor	R&S	NRV-Z4	100381	2023/09/05	2024/09/05
Power Sensor	R&S	NRV-Z2	100211	2023/09/05	2024/09/05
Wireless Communication Test Set	Anritsu	MT8820C	6201144551	2023/06/29	2024/06/29
Network Analyzer	Agilent	E5071C	MY46103472	2023/11/14	2024/11/14
Thermometer	Elitech	RC-4	EF5238001629	2023/10/09	2024/10/09
Thermometer	Elitech	RC-4HC	EF7239002655	2023/11/17	2024/11/17
Power Amplifier	SATIMO	6552B	22374	N/A	N/A
Dielectric Probe Kit	Speag	DAK3.5	SN: 1312	N/A	N/A
Phantom	Speag	SAM	SN: 1576	N/A	N/A
Attenuator	COM-MW	ZA-S1-31	1305003187	N/A	N/A
Directional coupler	AA-MCS	AAMCS-UDC	000272	N/A	N/A

Note: For dipole antennas, BALUN has adopted 3 years as calibration intervals, and on annual basis, every measurement dipole has been evaluated and is in compliance with the following criteria:

1. There is no physical damage on the dipole;
2. System validation with specific dipole is within 10% of calibrated value;
3. Return-loss in within 20% of calibrated measurement.
4. Impedance (real or imaginary parts) in within 5 Ohms of calibrated measurement.

ANNEX A SIMULATING LIQUID VERIFICATION RESULT

The dielectric parameters of the liquids were verified prior to the SAR evaluation using a DAK3.5 Dielectric Probe Kit.

Body liquid

Date	Liquid Type	Fre. (MHz)	Temp. (℃)	Meas. Conductivity (σ) (S/m)	Meas. Permittivity (ε)	Target Conductivity (σ) (S/m)	Target Permittivity (ε)	Conductivity Tolerance (%)	Permittivity Tolerance (%)
2023.11.27	Body	750	21.6	0.89	42.22	0.89	41.94	0.00	0.67
2023.11.28	Body	835	21.5	0.90	41.35	0.90	41.50	0.00	-0.36
2023.11.29	Body	1750	21.5	1.36	40.04	1.37	40.08	-0.73	-0.10
2023.11.30	Body	1900	21.1	1.41	39.78	1.40	40.00	0.71	-0.55
2023.12.01	Body	2450	21.8	1.80	39.26	1.80	39.20	0.00	0.15
2023.12.04	Body	2600	21.3	1.99	38.62	1.96	39.01	1.53	-1.00
2023.12.05	Body	5250	21.8	4.70	35.80	4.71	35.93	-0.21	-0.36
2023.12.06	Body	5600	21.7	5.05	35.29	5.07	35.53	-0.39	-0.68
2023.12.07	Body	5750	21.1	5.18	35.51	5.22	35.36	-0.77	0.42
2024.01.12	Body	835	21.3	0.90	41.68	0.90	41.50	0.00	0.43
2024.01.12	Body	1900	21.3	1.40	39.86	1.40	40.00	0.00	-0.35
Note: The tolerance limit of Conductivity and Permittivity is± 5%.									

ANNEX B SYSTEM CHECK RESULT

Comparing to the original SAR value provided by SPEAG, the validation data should be within itsspecification of 10 %(for 1 g).

Body liquid 1g

Date	Liquid Type	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)
2023.11.27	Body	750	100	0.87	8.66	8.51	1.76
2023.11.28	Body	835	100	0.96	9.55	9.76	-2.15
2023.11.29	Body	1750	100	3.71	37.10	36.70	1.09
2023.11.30	Body	1900	100	4.07	40.70	40.30	0.99
2023.12.01	Body	2450	100	5.26	52.60	53.00	-0.75
2023.12.04	Body	2600	100	5.69	56.90	56.80	0.18
2023.12.05	Body	5250	100	7.91	79.10	77.80	0.02
2023.12.06	Body	5600	100	8.51	85.10	81.20	0.05
2023.12.07	Body	5750	100	7.97	79.70	77.20	0.03
2024.01.12	Body	835	100	0.97	9.71	9.76	-0.01
2024.01.12	Body	1900	100	4.18	41.80	40.30	0.04
Note: The tolerance limit of System validation ±10%.							

Body liquid 10g

Date	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)
2023.11.27	750	100	0.55	5.51	5.58	-1.25
2023.11.28	835	100	0.64	6.35	6.34	0.16
2023.11.29	1750	100	1.93	19.30	19.10	1.05
2023.11.30	1900	100	2.06	20.60	20.30	1.48
2023.12.01	2450	100	2.39	23.90	24.10	-0.83
2023.12.04	2600	100	2.45	24.50	24.80	-1.21
2023.12.05	5250	100	2.28	22.80	22.10	0.03
2023.12.06	5600	100	2.53	25.30	23.10	0.10
2023.12.07	5750	100	2.41	24.10	21.70	0.11
2024.01.12	835	100	0.63	6.28	6.34	-0.01
2024.01.12	1900	100	2.08	20.80	20.30	0.02
Note: The tolerance limit of System validation ±10%.						

System Performance Check Data (750MHz)

Date: 2023.11.27

Communication System Band: D750 (750.0 MHz); Frequency: 750 MHz;Duty Cycle: 1:1

Medium parameters used (extrapolated): f = 750 MHz; σ = 0.891 S/m; ε_r = 42.221; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5℃ Liquid Temperature:21.6℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.4, 10.4, 10.4); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2023.01.30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 750/Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.917 W/kg

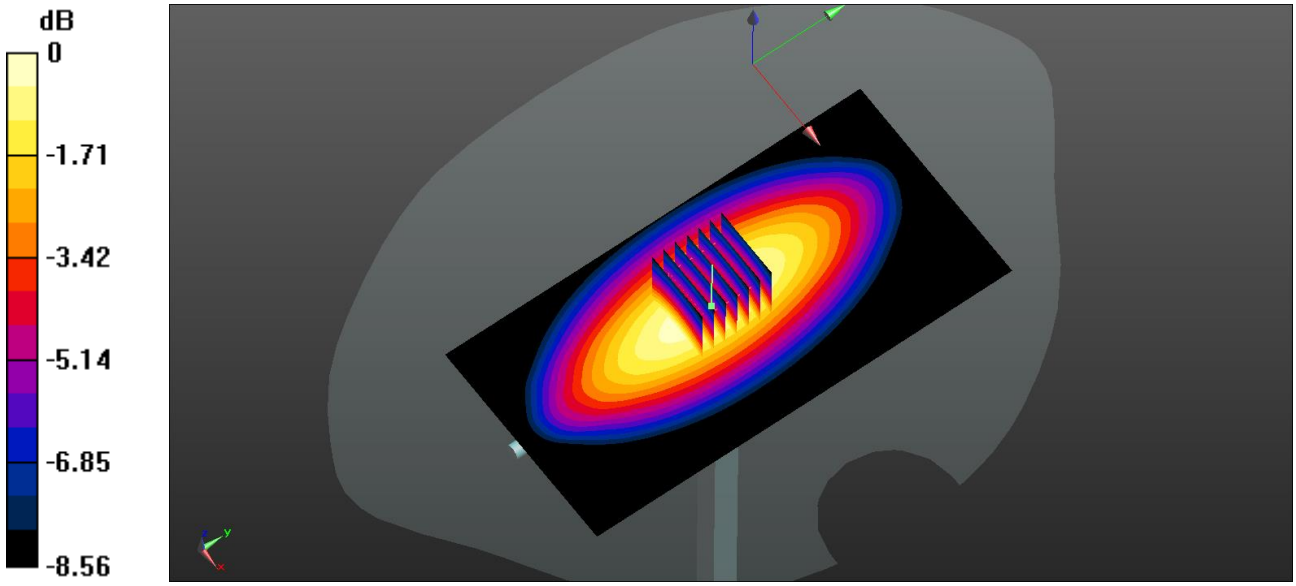
CW 750/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 31.38 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.38 W/kg

SAR(1 g) = 0.866 W/kg; SAR(10 g) = 0.551 W/kg

Maximum value of SAR (measured) = 0.941 W/kg



0 dB = 0.941 W/kg

System Performance Check Data (835MHz)

Date: 2023.11.28

Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz;Duty Cycle: 1:1

Medium parameters used: f = 835 MHz; σ = 0.895 S/m; ε_r = 41.346; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4℃ Liquid Temperature:21.5℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.97, 9.97, 9.97); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2023.01.30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 835/Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.961 W/kg

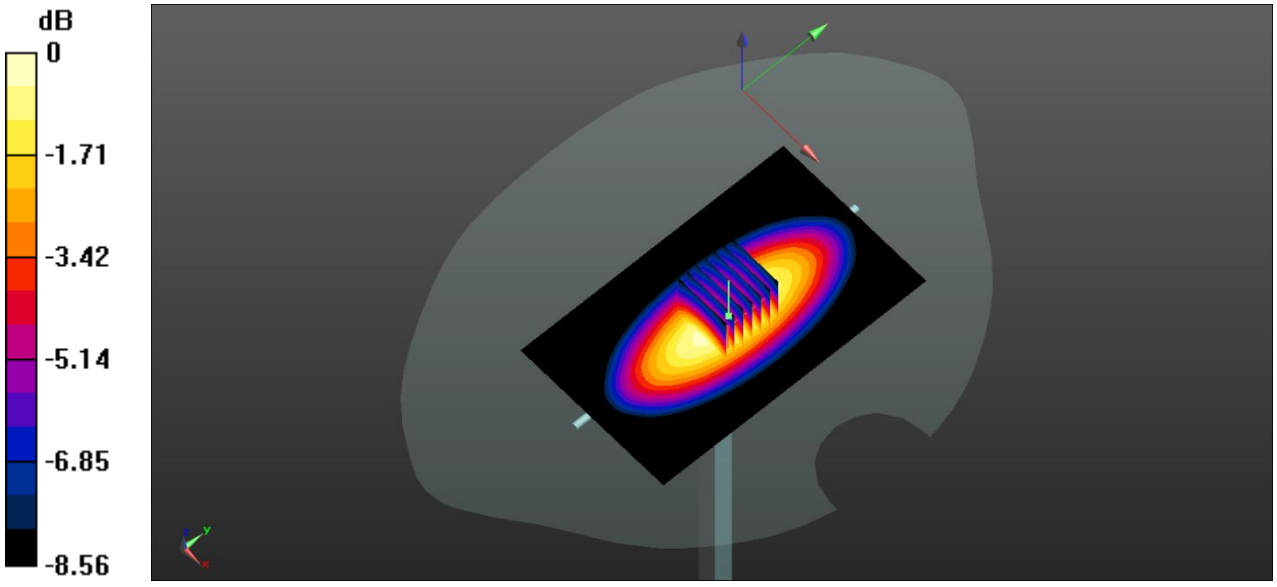
CW835/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 31.51 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.955 W/kg; SAR(10 g) = 0.635 W/kg

Maximum value of SAR (measured) = 0.992 W/kg



0 dB = 0.992 W/kg

System Performance Check Data (1750MHz)

Date: 2023.11.29

Communication System Band: D1750 (1750.0 MHz); Frequency: 1750 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1750 MHz; σ = 1.362 S/m; ε_r = 40.042; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6℃ Liquid Temperature:21.5℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.65, 8.65, 8.65); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2023.01.30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 1750/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 4.22 W/kg

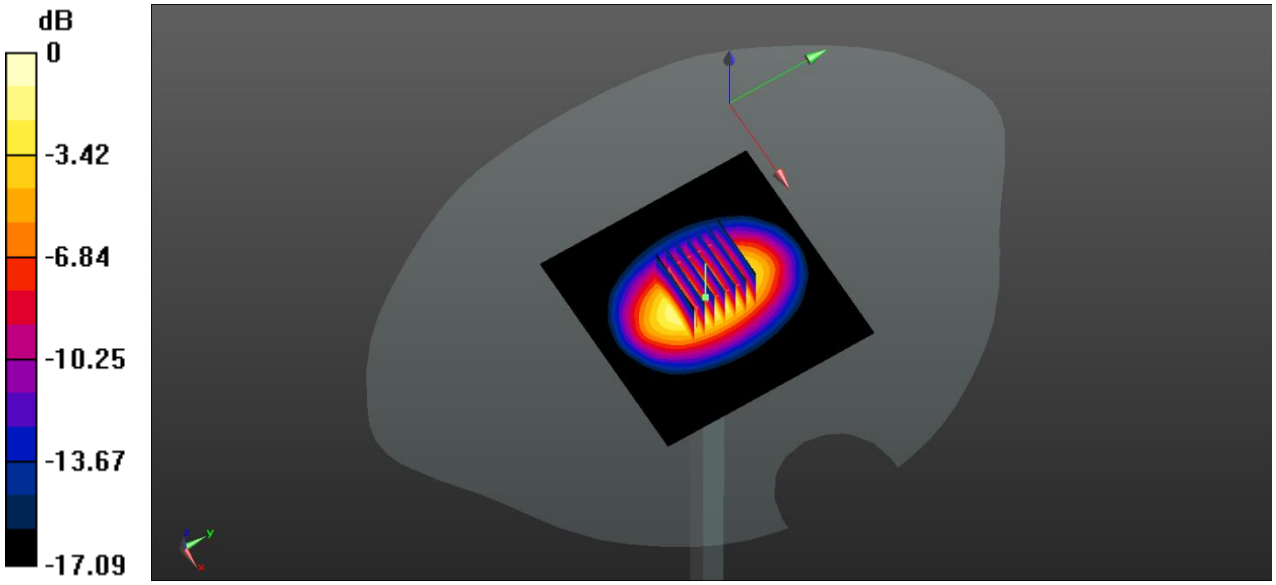
CW 1750/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 56.24 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 7.03 W/kg

SAR(1 g) = 3.71 W/kg; SAR(10 g) = 1.93 W/kg

Maximum value of SAR (measured) = 4.15 W/kg



0 dB = 4.15 W/kg

System Performance Check Data (1900MHz)

Date: 2023.11.30

Communication System Band: D1900 (1900.0 MHz); Frequency: 1900 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1900 MHz; σ = 1.411 S/m; ε_r = 39.781; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4℃ Liquid Temperature:21.1℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.21, 8.21, 8.21); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2023.01.30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 1900/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 4.51 W/kg

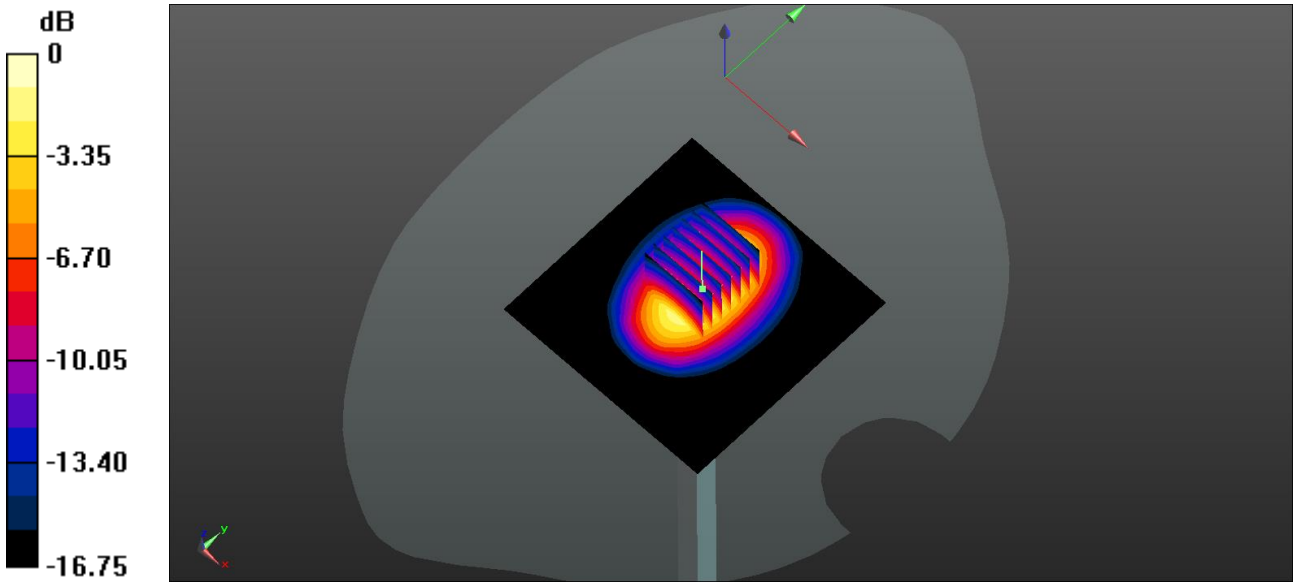
CW 1900/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 55.66 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 7.32 W/kg

SAR(1 g) = 4.07 W/kg; SAR(10 g) = 2.06 W/kg

Maximum value of SAR (measured) = 4.57 W/kg



0 dB = 4.57 W/kg

System Performance Check Data (2450MHz)

Date: 2023.12.01

Communication System Band: D2450 (2450.0 MHz); Frequency: 2450 MHz;Duty Cycle: 1:1

Medium parameters used: f = 2450 MHz; σ = 1.797 S/m; ε_r = 39.256; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4℃ Liquid Temperature:21.8℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.78, 7.78, 7.78); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2023.01.30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 2450/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 6.32 W/kg

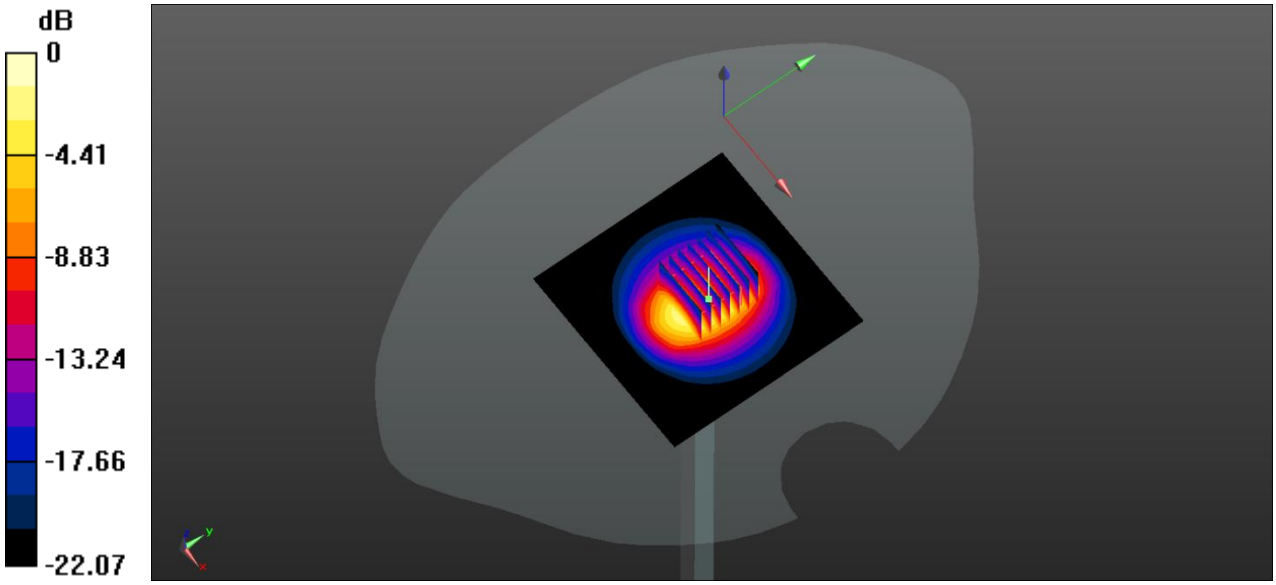
CW 2450/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 58.07 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 11.7 W/kg

SAR(1 g) = 5.26 W/kg; SAR(10 g) = 2.39 W/kg

Maximum value of SAR (measured) = 6.23 W/kg



0 dB = 6.23 W/kg

System Performance Check Data (2600MHz)

Date: 2023.12.04

Communication System Band: D2600 (2600.0 MHz); Frequency: 2600 MHz;Duty Cycle: 1:1

Medium parameters used (extrapolated): f = 2600 MHz; σ = 1.985 S/m; ε_r = 38.623; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.2℃ Liquid Temperature:21.3℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.6, 7.6, 7.6); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2023.01.30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 2600/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 7.01 W/kg

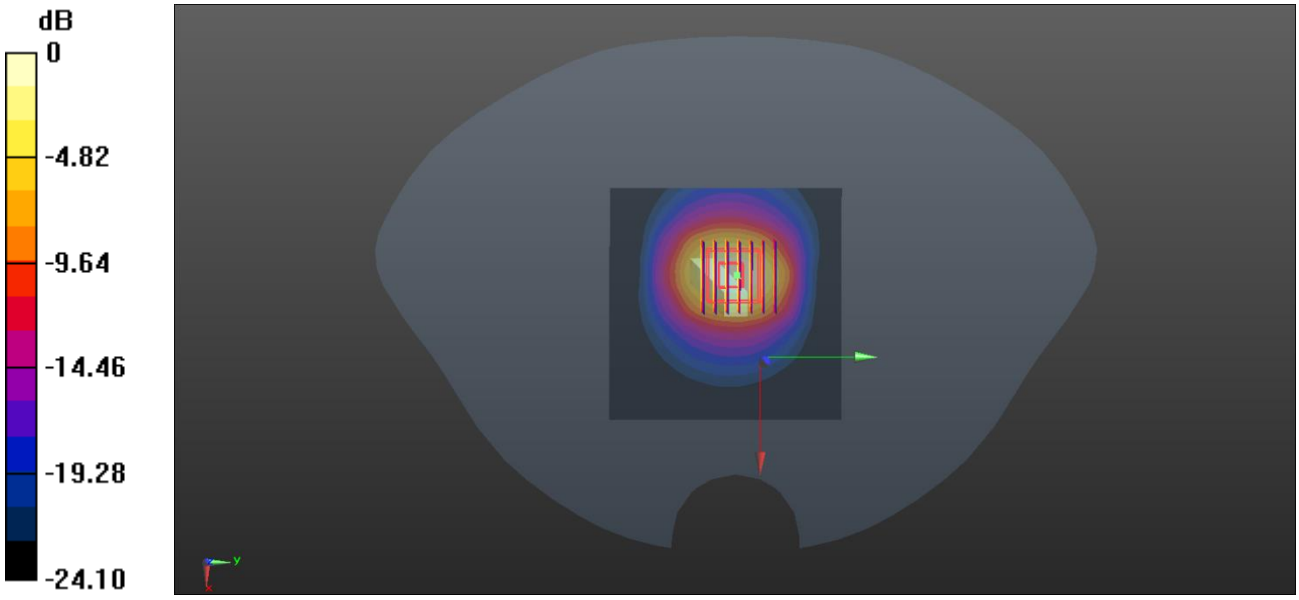
CW 2600/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 47.44 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 12.8 W/kg

SAR(1 g) = 5.69 W/kg; SAR(10 g) = 2.45 W/kg

Maximum value of SAR (measured) = 6.51 W/kg



0 dB = 6.51 W/kg

System Performance Check Data (5250MHz)

Date: 2023.12.05

Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5250 MHz;Duty Cycle: 1:1

Medium parameters used: f = 5250 MHz; σ = 4.7 S/m; ε_r = 35.801; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5℃ Liquid Temperature:21.8℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(5.67, 5.67, 5.67); Calibrated: 2023.01.19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2023.01.30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 5250/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 8.39 W/kg

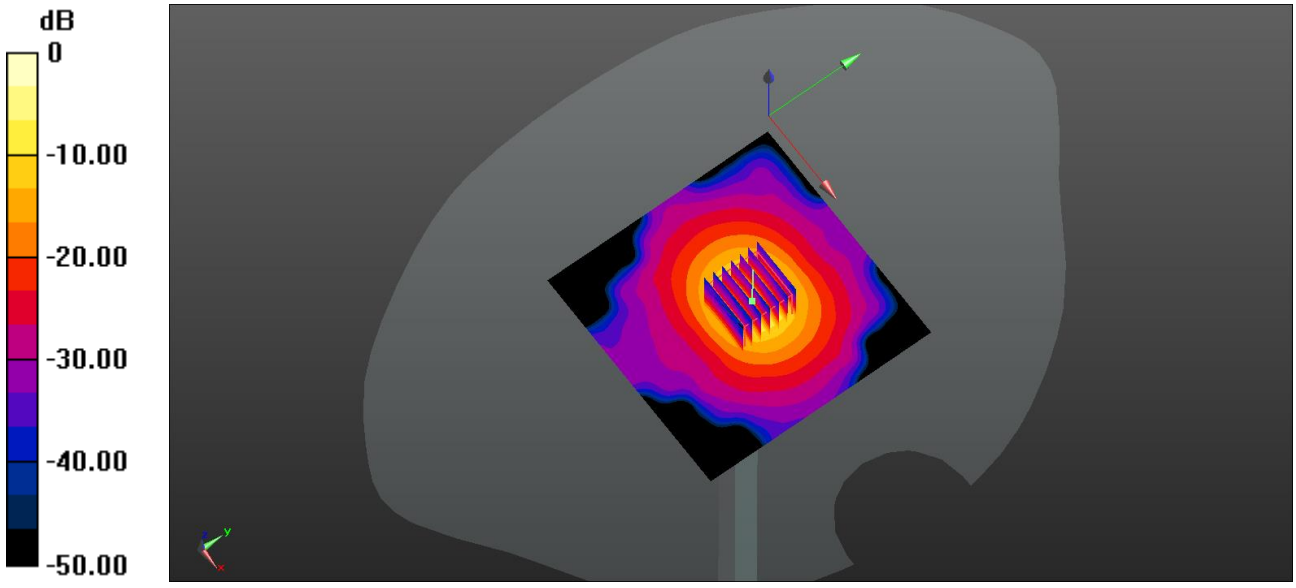
CW 5250/Zoom Scan (7x7x21)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 37.06 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 33.2 W/kg

SAR(1 g) = 7.91 W/kg; SAR(10 g) = 2.28 W/kg

Maximum value of SAR (measured) = 19.9 W/kg



0 dB = 19.9 W/kg

System Performance Check Data (5600MHz)

Date: 2023.12.06

Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5600 MHz;Duty Cycle: 1:1

Medium parameters used: f = 5600 MHz; σ = 5.051 S/m; ε_r = 35.293; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5℃ Liquid Temperature:21.7℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(4.88, 4.88, 4.88); Calibrated: 2023.01.19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2023.01.30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 5600/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 8.36 W/kg

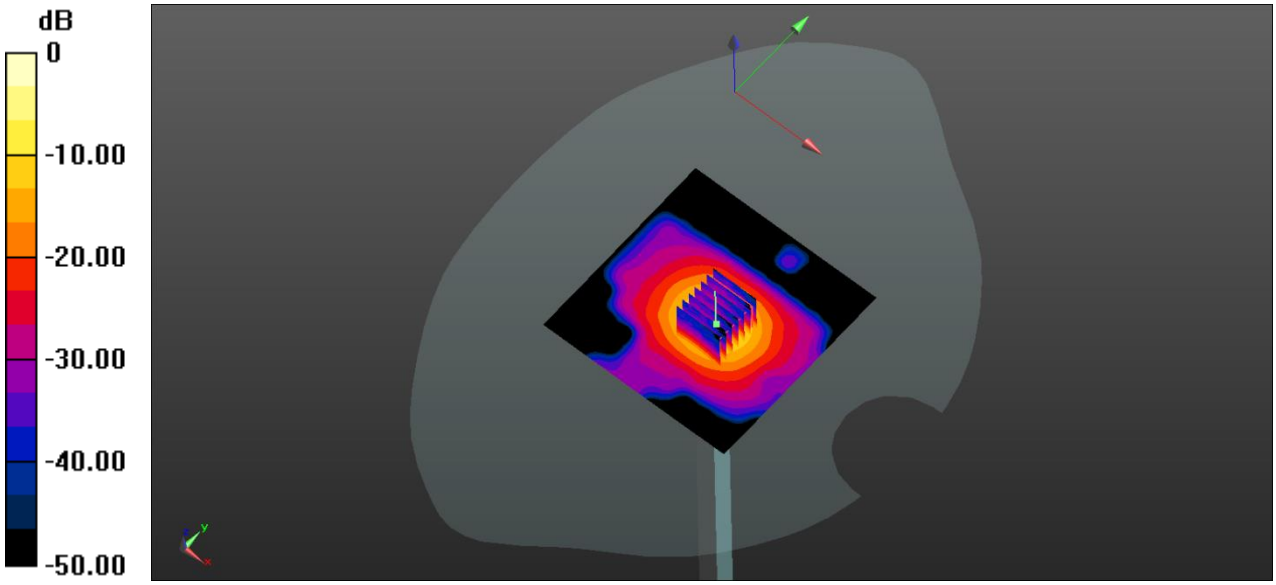
CW 5600/Zoom Scan (7x7x21)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 34.67 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 38.53 W/kg

SAR(1 g) = 8.51 W/kg; SAR(10 g) = 2.53 W/kg

Maximum value of SAR (measured) = 21.8 W/kg



0 dB = 21.8 W/kg

System Performance Check Data (5750MHz)

Date: 2023.12.07

Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5750 MHz;Duty Cycle: 1:1

Medium parameters used: f = 5750 MHz; σ = 5.177 S/m; ε_r = 35.511; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6℃ Liquid Temperature:21.1℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(4.83, 4.83, 4.83); Calibrated: 2023.01.19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2023.01.30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 5750/Area Scan (81x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 8.98 W/kg

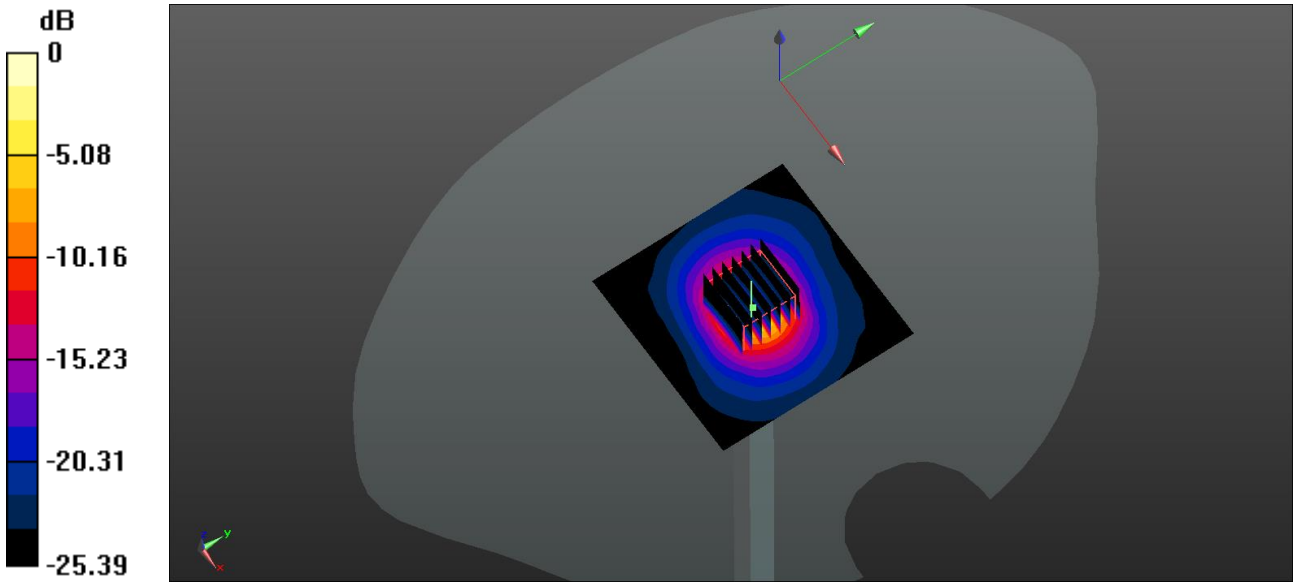
CW 5750/Zoom Scan (7x7x15)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 40.39 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 36.7 W/kg

SAR(1 g) = 7.97 W/kg; SAR(10 g) = 2.41 W/kg

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



0 dB = 15.9 W/kg

System Performance Check Data (835MHz)

Date: 2024.01.12

Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz;Duty Cycle: 1:1

Medium parameters used: f = 835 MHz; σ = 0.903 S/m; ε_r = 41.682; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5℃ Liquid Temperature:21.3℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.97, 9.97, 9.97); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1711; Calibrated: 2023.03.17
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 835/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.965 W/kg

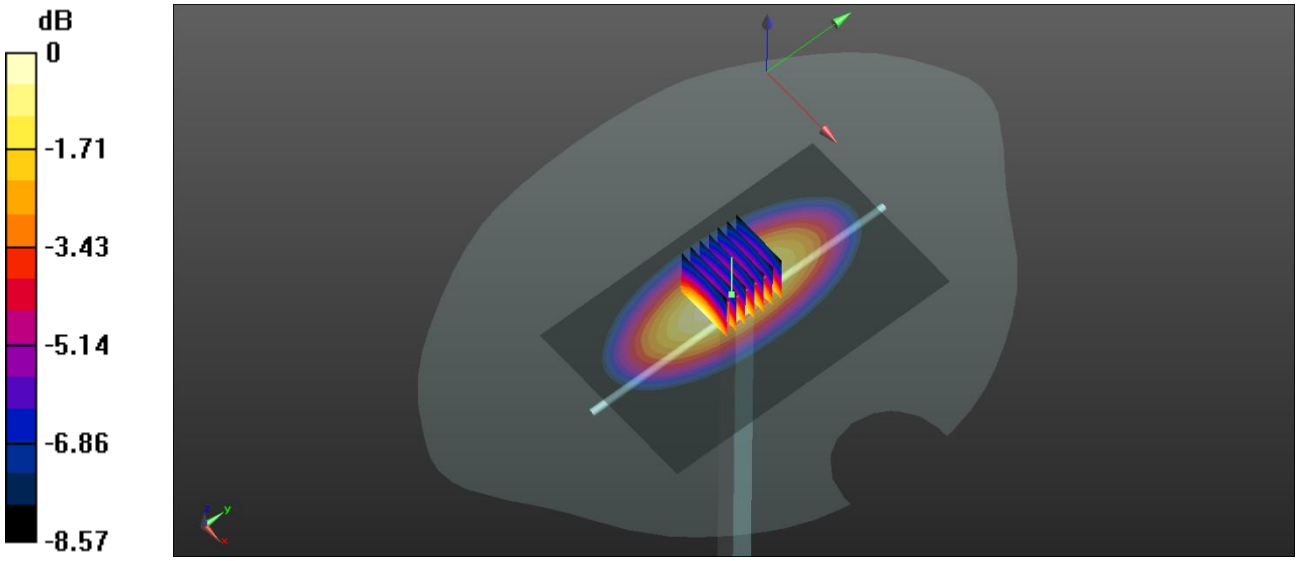
CW 835/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 33.35 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.28 W/kg

SAR(1 g) = 0.971 W/kg; SAR(10 g) = 0.628 W/kg

Maximum value of SAR (measured) = 0.975 W/kg



0 dB = 0.975 W/kg

System Performance Check Data (1900MHz)

Date: 2024.01.12

Communication System Band: D1900 (1900.0 MHz); Frequency: 1900 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1900 MHz; σ = 1.397 S/m; ε_r = 39.862; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5℃ Liquid Temperature:21.3℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.21, 8.21, 8.21); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1711; Calibrated: 2023.03.17
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 1900/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 4.59 W/kg

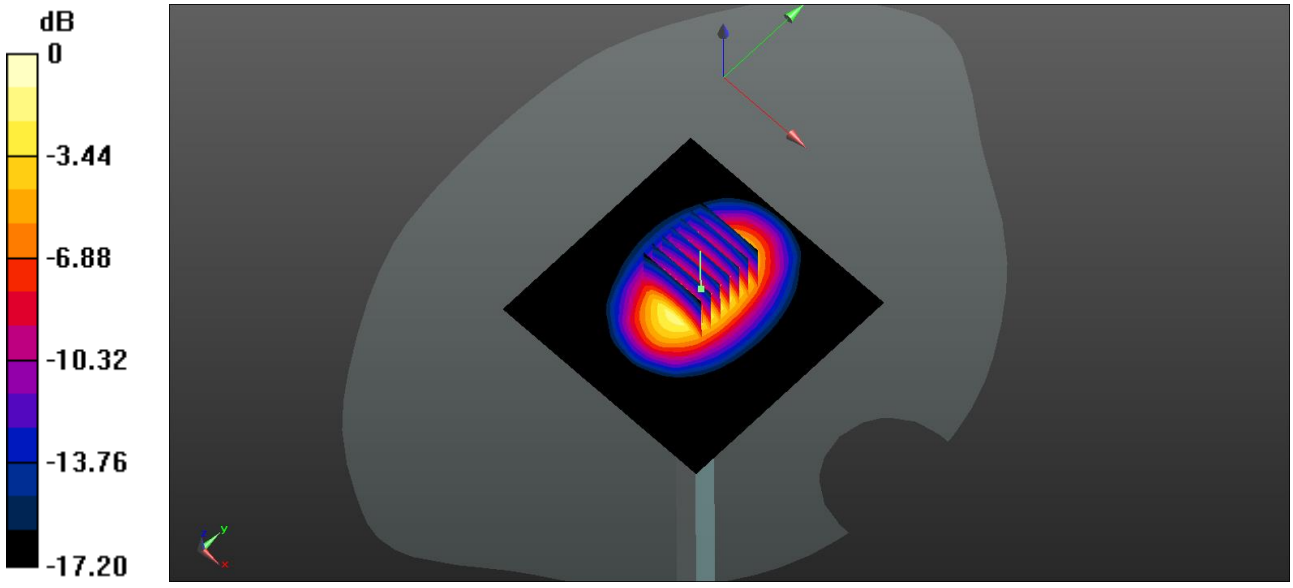
CW 1900/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 53.31 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 7.55 W/kg

SAR(1 g) = 4.18 W/kg; SAR(10 g) = 2.08 W/kg

Maximum value of SAR (measured) = 4.63 W/kg



0 dB = 4.63 W/kg

ANNEX C TEST DATA

Meas.1 Body Plane with Front Side 10mm on High Channel in GPRS850 4slots mode with Antenna1

Date: 2023.11.28

Communication System Band: GSM850; Frequency: 848.8 MHz;Duty Cycle: 1:2.08

Medium parameters used (interpolated): f = 848.8 MHz; σ = 0.911 S/m; ε_r = 40.936; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4℃ Liquid Temperature:21.5℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.97, 9.97, 9.97); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2023.01.30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch251/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.772 W/kg

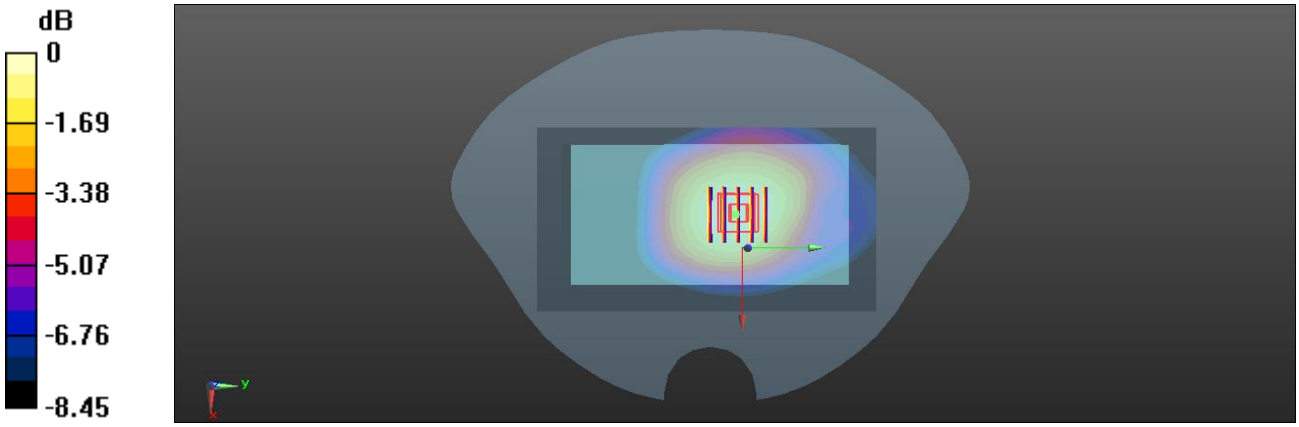
Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 28.23 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.923 W/kg

SAR(1 g) = 0.728 W/kg; SAR(10 g) = 0.542 W/kg.

Maximum value of SAR (measured) = 0.767 W/kg



0 dB = 0.767 W/kg

Meas.2 Body Plane with Bottom Edge 0mm on High Channel in GPRS850 4slots mode with Antenna1

Date: 2023.11.28

Communication System Band: GSM850; Frequency: 848.8 MHz;Duty Cycle: 1:2.08

Medium parameters used (interpolated): f = 848.8 MHz; σ = 0.911 S/m; ε_r = 40.936; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4℃ Liquid Temperature:21.5℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.97, 9.97, 9.97); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2023.01.30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch251/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.95 W/kg

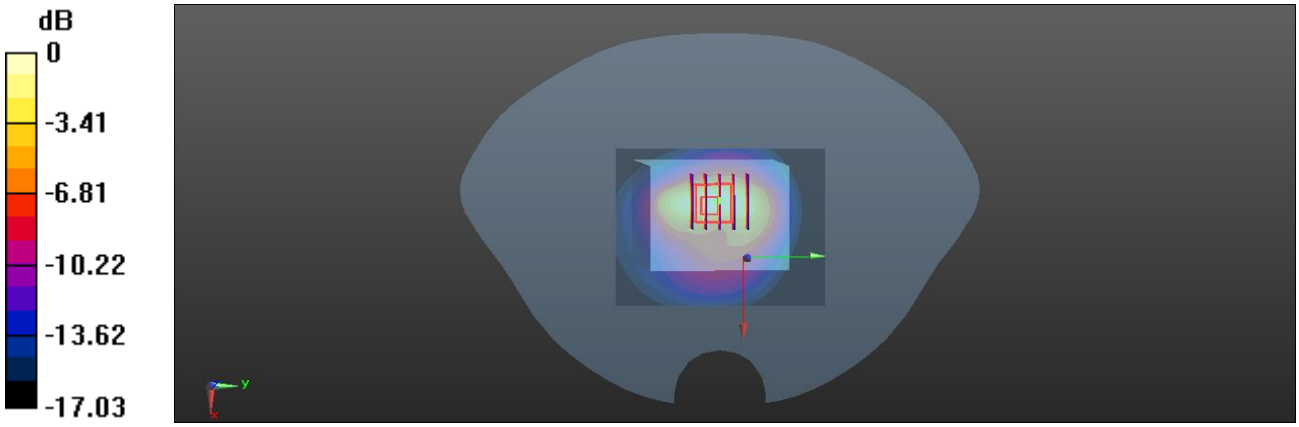
Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 35.47 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 4.77 W/kg

SAR(1 g) = 1.94 W/kg; SAR(10 g) = 0.890 W/kg

Maximum value of SAR (measured) = 1.97 W/kg



0 dB = 1.97 W/kg

Meas.3 Body Plane with Bottom Edge 10mm on Middle Channel in GPRS1900 4slotsmode with Antenna1

Date: 2023.11.30

Communication System Band: PCS1900; Frequency: 1880 MHz;Duty Cycle: 1:2.08

Medium parameters used (interpolated): f = 1880 MHz; σ = 1.402 S/m; ε_r = 39.858; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4℃ Liquid Temperature:21.1℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.21, 8.21, 8.21); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2023.01.30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch661/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.535 W/kg

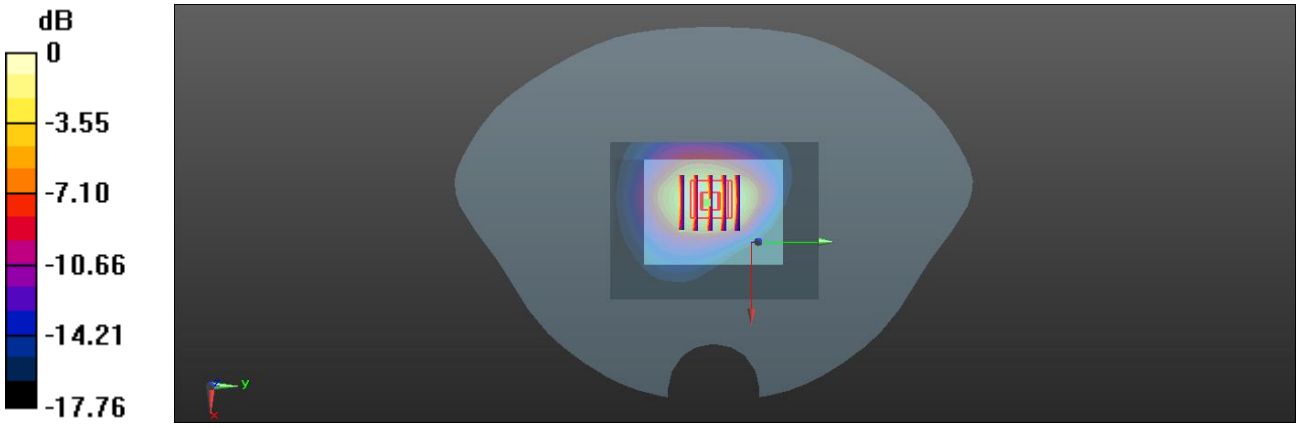
Ch661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.39 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.780 W/kg

SAR(1 g) = 0.465 W/kg; SAR(10 g) = 0.259 W/kg

Maximum value of SAR (measured) = 0.512 W/kg



0 dB = 0.512 W/kg

Meas.4 Body Plane with Bottom Edge 0mm on Middle Channel in GPRS1900 4slotsmode with Antenna1

Date: 2023.11.30

Communication System Band: PCS1900; Frequency: 1880 MHz;Duty Cycle: 1:2.08

Medium parameters used (interpolated): f = 1880 MHz; σ = 1.402 S/m; ε_r = 39.858; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4℃ Liquid Temperature:21.1℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.21, 8.21, 8.21); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2023.01.30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch661/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 3.75 W/kg

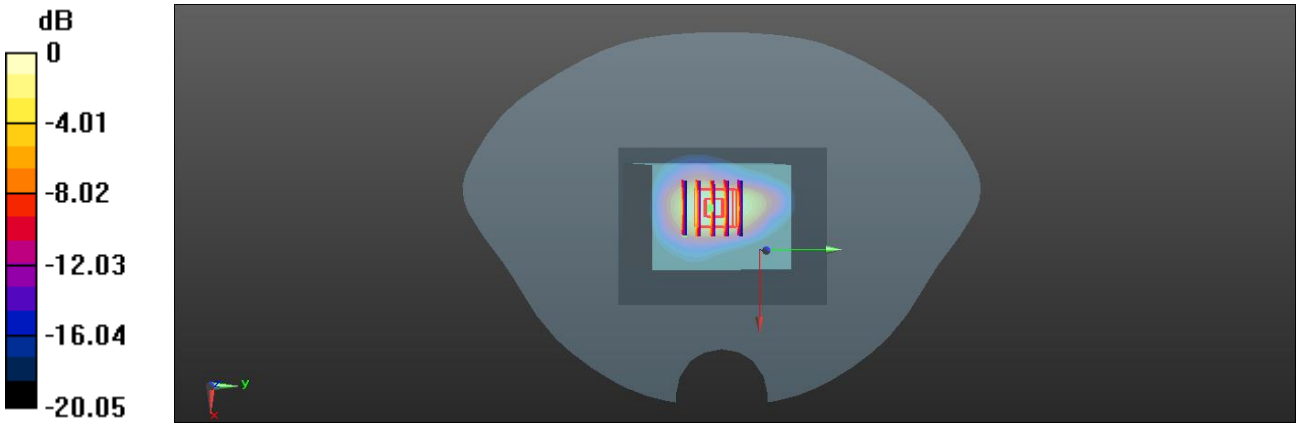
Ch661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 41.72 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 5.33 W/kg

SAR(1 g) = 2.75 W/kg; SAR(10 g) = 1.36 W/kg

Maximum value of SAR (measured) = 3.12 W/kg



0 dB = 3.12 W/kg

Meas.5 Body Plane with Bottom Edge 10mm on Low Channel in WCDMA Band2 mode with Antenna1

Date: 2023.11.30

Communication System Band: BAND 2; Frequency: 1852.4 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1852.4 MHz; σ = 1.383 S/m; ε_r = 40.409; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4℃ Liquid Temperature:21.1℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.21, 8.21, 8.21); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2023.01.30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch9262/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.461 W/kg

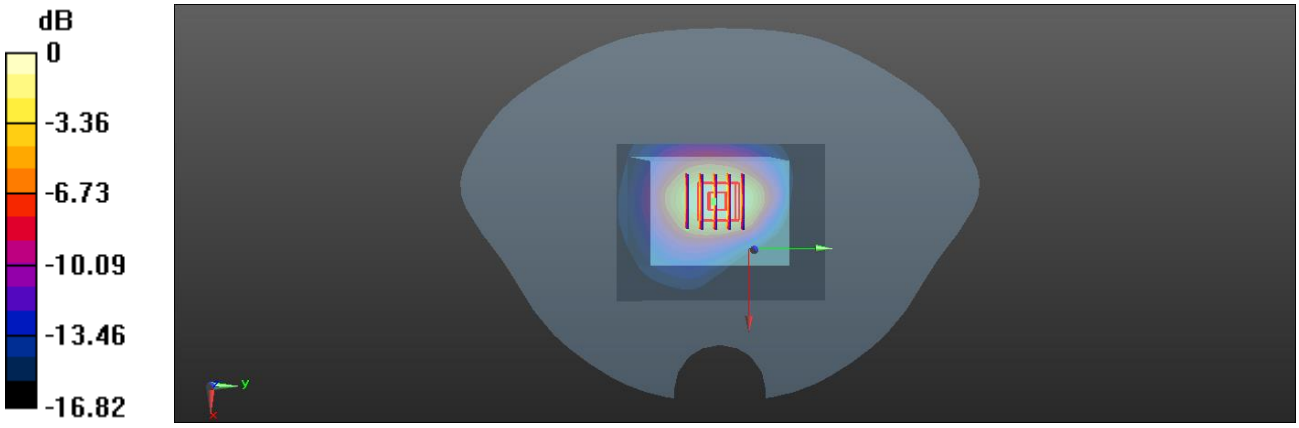
Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.37 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.655 W/kg

SAR(1 g) = 0.396 W/kg; SAR(10 g) = 0.222 W/kg

Maximum value of SAR (measured) = 0.437 W/kg



0 dB = 0.437 W/kg

Meas.6 Body Plane with Bottom Edge 0mm on Low Channel in WCDMA Band2 mode with Antenna1

Date: 2023.11.30

Communication System Band: BAND 2; Frequency: 1852.4 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1852.4 MHz; σ = 1.383 S/m; ε_r = 40.409; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4℃ Liquid Temperature:21.1℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.21, 8.21, 8.21); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2023.01.30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch9262/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

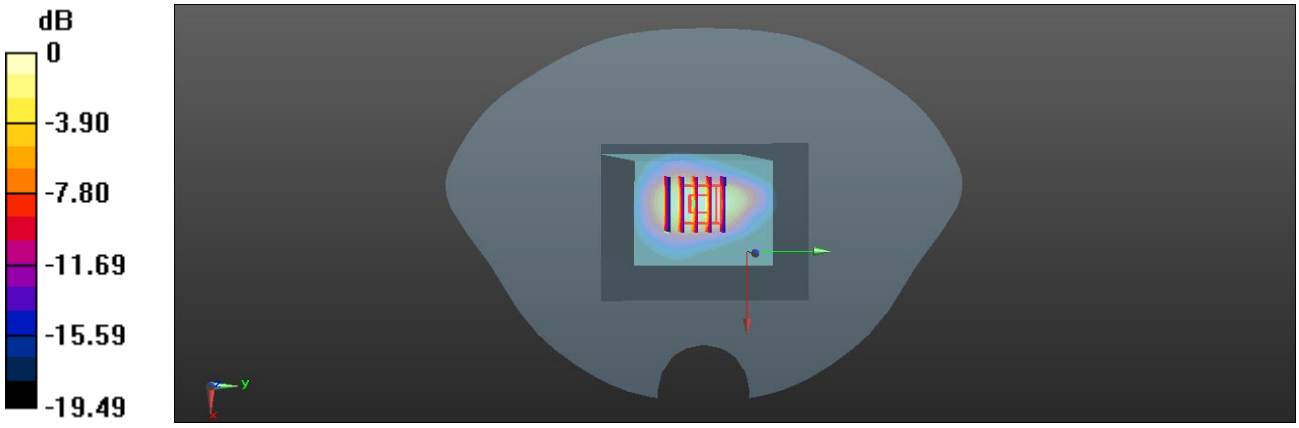
Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 38.07 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 4.40 W/kg

SAR(1 g) = 2.29 W/kg; SAR(10 g) = 1.14 W/kg

Maximum value of SAR (measured) = 2.60 W/kg



0 dB = 2.60 W/kg

Meas.7 Body Plane with Bottom Edge 10mm on High Channel in WCDMA Band4 mode with Antenna1

Date: 2023.11.29

Communication System Band: BAND 4; Frequency: 1752.6 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1752.6 MHz; σ = 1.373 S/m; ε_r = 39.900; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6℃ Liquid Temperature:21.5℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.65, 8.65, 8.65); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2023.01.30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch1513/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.429 W/kg

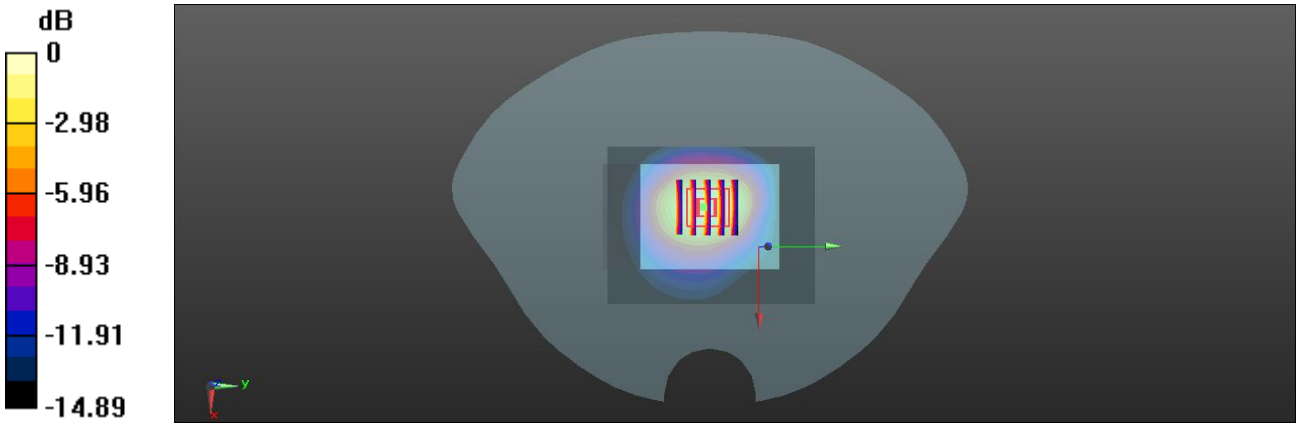
Ch1513/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.75 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.588 W/kg

SAR(1 g) = 0.372 W/kg; SAR(10 g) = 0.220 W/kg

Maximum value of SAR (measured) = 0.409 W/kg



0 dB = 0.409 W/kg

Meas.8 Body Plane with Bottom Edge 0mm on High Channel in WCDMA Band4 mode with Antenna1

Date: 2023.11.29

Communication System Band: BAND 4; Frequency: 1752.6 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1752.6 MHz; σ = 1.373 S/m; ε_r = 39.900; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6℃ Liquid Temperature:21.5℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.65, 8.65, 8.65); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2023.01.30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch1513/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.95 W/kg

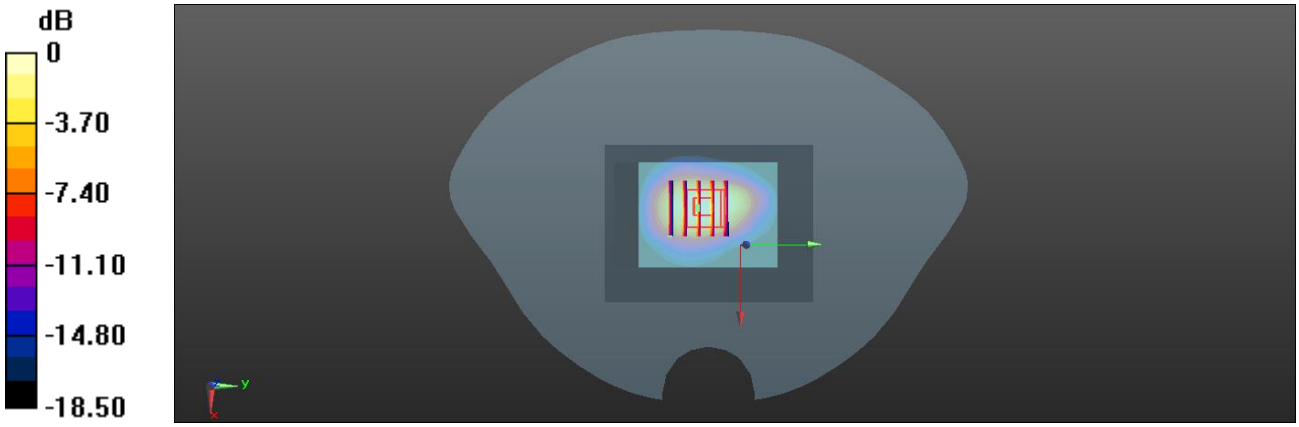
Ch1513/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 39.07 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 3.92 W/kg

SAR(1 g) = 2.17 W/kg; SAR(10 g) = 1.14 W/kg

Maximum value of SAR (measured) = 2.39 W/kg



0 dB = 2.39 W/kg

Meas.9 Body Plane with Front Side 10mm on Middle Channel in WCDMA Band5 mode with Antenna1

Date: 2023.11.28

Communication System Band: BAND 5; Frequency: 836.4 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.903 S/m; ε_r = 41.164; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4℃ Liquid Temperature:21.5℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.97, 9.97, 9.97); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2023.01.30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch4182/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.307 W/kg

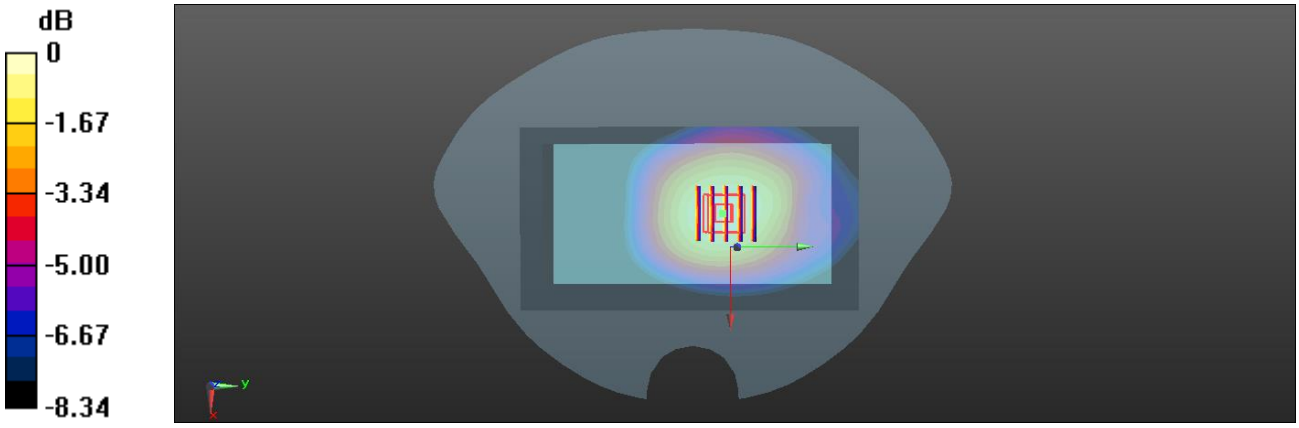
Ch4182/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.06 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.378 W/kg

SAR(1 g) = 0.297 W/kg; SAR(10 g) = 0.221 W/kg

Maximum value of SAR (measured) = 0.314 W/kg



0 dB = 0.314 W/kg

Meas.10 Body Plane with Bottom Edge 0mm on Middle Channel in WCDMA Band5 mode with Antenna1

Date: 2023.11.28

Communication System Band: BAND 5; Frequency: 836.4 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.903 S/m; ε_r = 41.164; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4℃ Liquid Temperature:21.5℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.97, 9.97, 9.97); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2023.01.30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch4182/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.717 W/kg

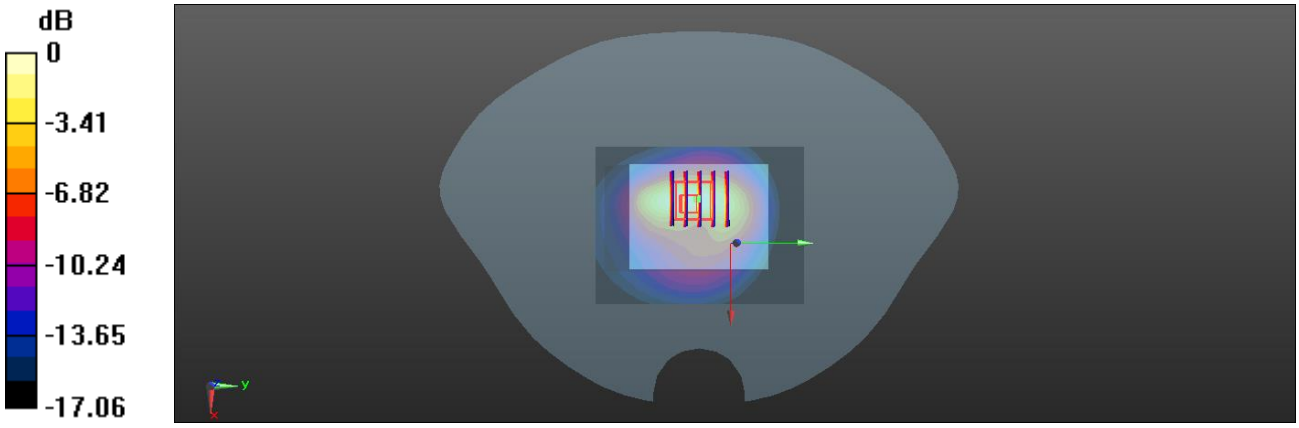
Ch4182/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.14 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 1.80 W/kg

SAR(1 g) = 0.722 W/kg; SAR(10 g) = 0.331 W/kg

Maximum value of SAR (measured) = 0.731 W/kg



0 dB = 0.731 W/kg

Meas.11 Body Plane with Bottom Edge 10mm on High Channel in LTE Band4 mode with Antenna1

Date: 2023.11.29

Communication System Band: BAND 4; Frequency: 1745 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1745 MHz; σ = 1.349 S/m; ε_r = 40.486; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6℃ Liquid Temperature:21.5℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.65, 8.65, 8.65); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2023.01.30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch20300/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.515 W/kg

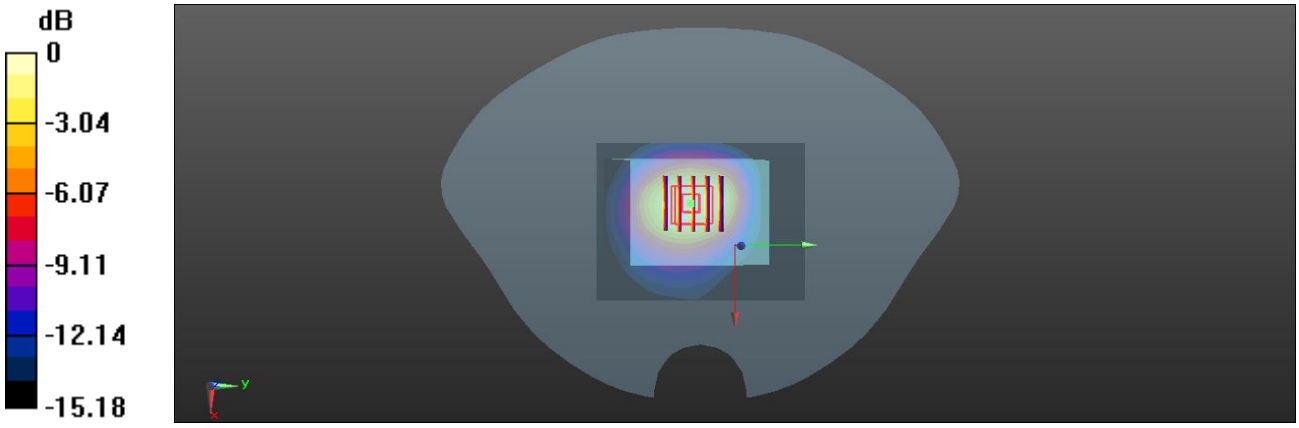
Ch20300/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.07 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.685 W/kg

SAR(1 g) = 0.437 W/kg; SAR(10 g) = 0.260 W/kg

Maximum value of SAR (measured) = 0.481 W/kg



0 dB = 0.481 W/kg

Meas.12 Body Plane with Bottom Edge 0mm on High Channel in LTE Band4 mode with Antenna1

Date: 2023.11.29

Communication System Band: BAND 4; Frequency: 1745 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1745 MHz; σ = 1.349 S/m; ε_r = 40.486; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6℃ Liquid Temperature:21.5℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.65, 8.65, 8.65); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2023.01.30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch20300/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 3.41 W/kg

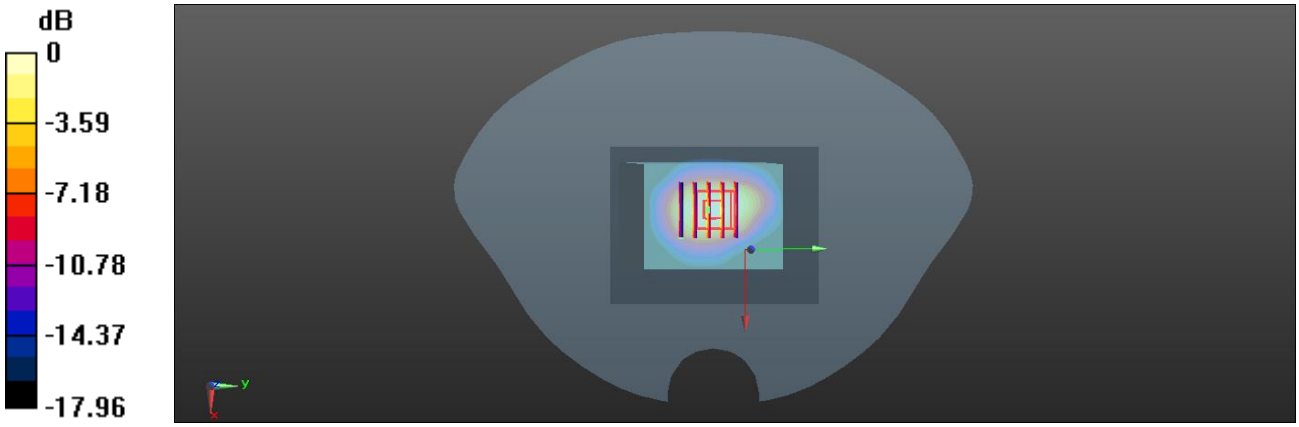
Ch20300/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 34.54 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 4.55 W/kg

SAR(1 g) = 2.57 W/kg; SAR(10 g) = 1.37 W/kg

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



0 dB = 2.82 W/kg

Meas.13 Body Plane with Bottom Edge 10mm on Low Channel in LTE Band7 mode with Antenna1

Date: 2023.12.04

Communication System Band: BAND 7; Frequency: 2510 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 2510 MHz; σ = 1.867 S/m; ε_r = 39.268; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.2℃ Liquid Temperature:21.3℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.78, 7.78, 7.78); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2023.01.30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch20850/Area Scan (81x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.35 W/kg

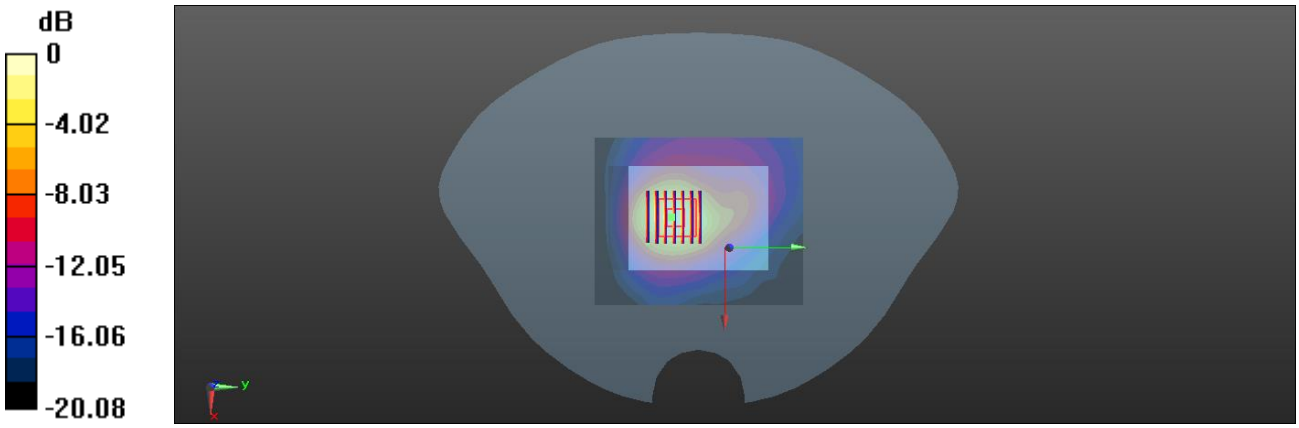
Ch20850/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.08 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 2.12 W/kg

SAR(1 g) = 1.1 W/kg; SAR(10 g) = 0.539 W/kg

Maximum value of SAR (measured) = 1.23 W/kg



0 dB = 1.23 W/kg

Meas.14 Body Plane with Bottom Edge 0mm on Low Channel in LTE Band7 mode with Antenna1

Date: 2023.12.04

Communication System Band: BAND 7; Frequency: 2510 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 2510 MHz; σ = 1.867 S/m; ε_r = 39.268; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.2℃ Liquid Temperature:21.3℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.78, 7.78, 7.78); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2023.01.30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch20850/Area Scan (81x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 4.64 W/kg

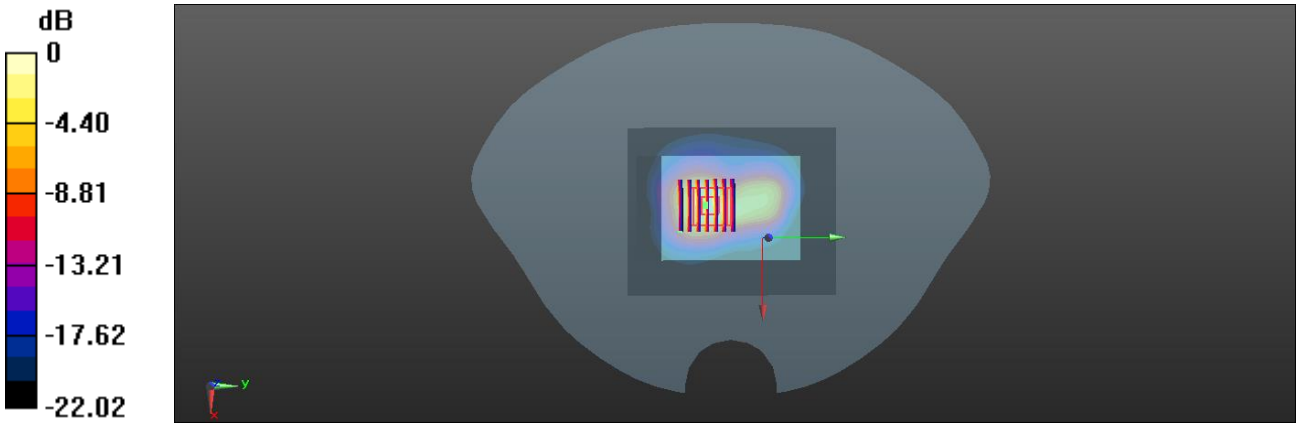
Ch20850/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 39.34 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 8.04 W/kg

SAR(1 g) = 3.64 W/kg; SAR(10 g) = 1.6 W/kg

Maximum value of SAR (measured) = 4.19 W/kg



0 dB = 4.19 W/kg

Meas.15 Body Plane with Front Side 10mm on Middle Channel in LTE B12 mode with Antenna1

Date: 2023.11.27

Communication System Band: BAND 12; Frequency: 707.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.885 S/m; ε_r = 42.659; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5℃ Liquid Temperature:21.6℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.4, 10.4, 10.4); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2023.01.30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch23095/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.130 W/kg

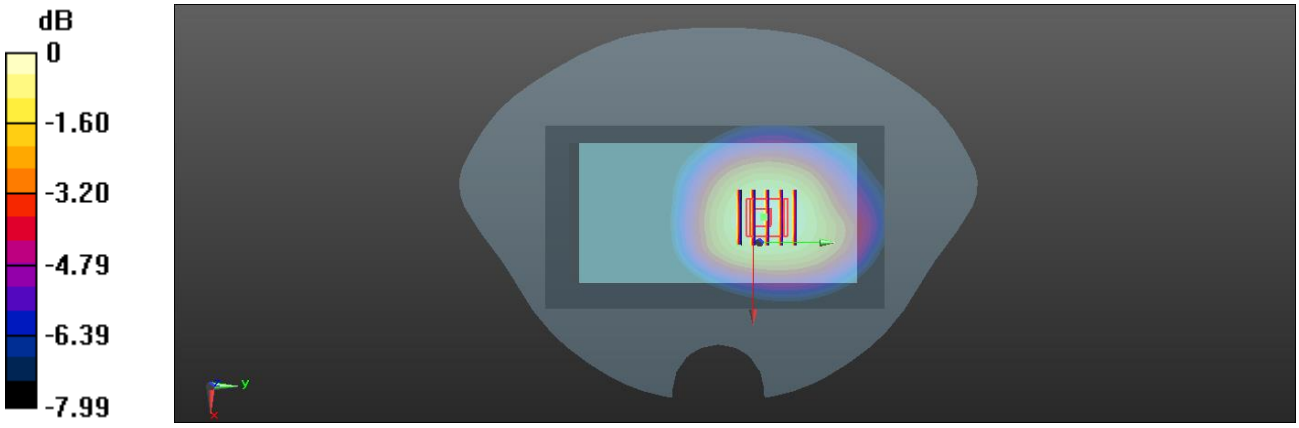
Ch23095/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.56 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.167 W/kg

SAR(1 g) = 0.133 W/kg; SAR(10 g) = 0.100 W/kg

Maximum value of SAR (measured) = 0.139 W/kg



0 dB = 0.139 W/kg

Meas.16 Body Plane with Bottom Edge 0mm on Middle Channel in LTE Band12 mode with Antenna1

Date: 2023.11.27

Communication System Band: BAND 12; Frequency: 707.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.885 S/m; ε_r = 42.659; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5℃ Liquid Temperature:21.6℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.4, 10.4, 10.4); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2023.01.30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch23095/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.458 W/kg

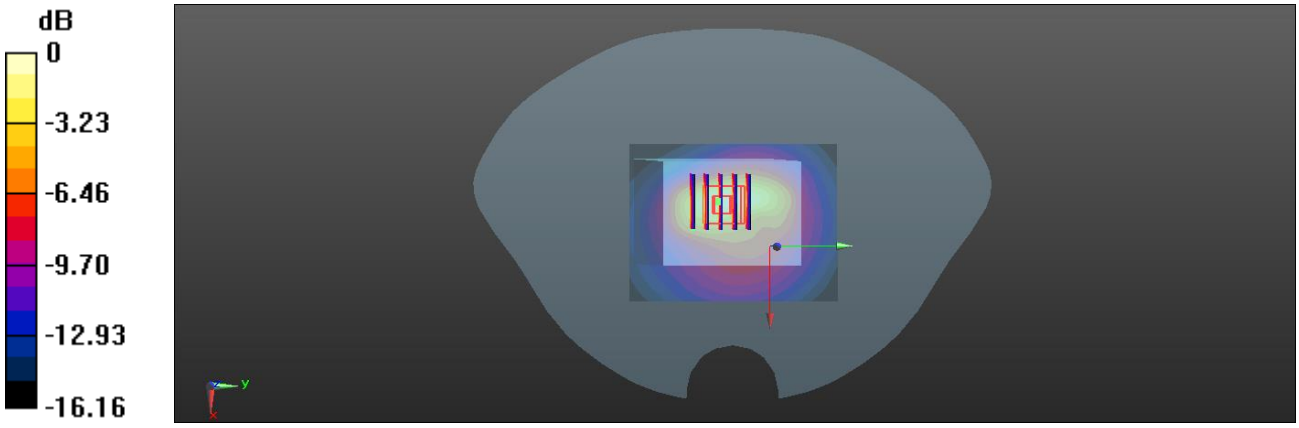
Ch23095/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.88 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.31 W/kg

SAR(1 g) = 0.481 W/kg; SAR(10 g) = 0.215 W/kg

Maximum value of SAR (measured) = 0.512 W/kg



0 dB = 0.512 W/kg

Meas.17 Body Plane with Bottom Edge 10mm on Low Channel in LTE Band25 mode with Antenna1

Date: 2023.11.30

Communication System Band: BAND 25; Frequency: 1860 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1860 MHz; σ = 1.393 S/m; ε_r = 40.053; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4℃ Liquid Temperature:21.1℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.21, 8.21, 8.21); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2023.01.30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch26140/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.516 W/kg

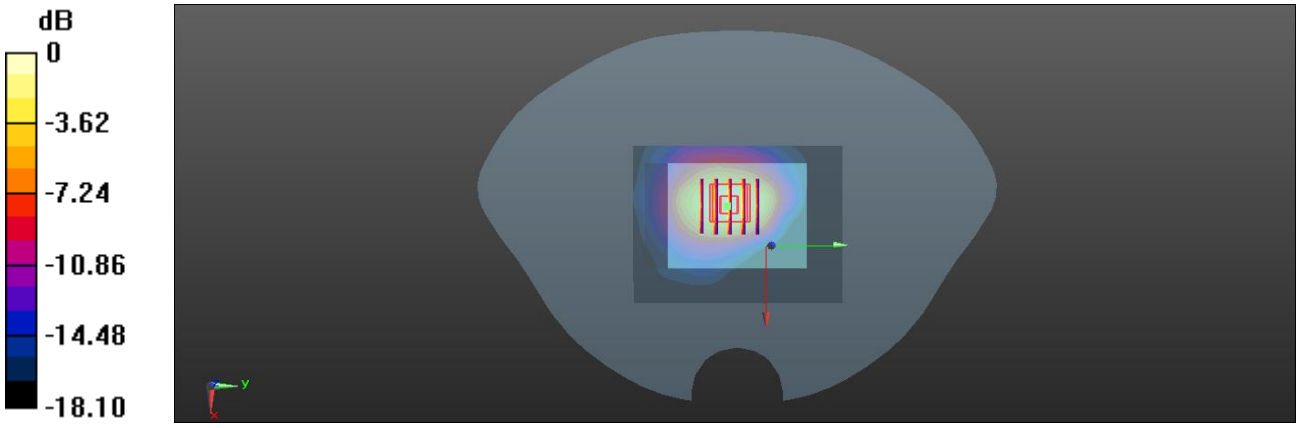
Ch26140/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.19 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.734 W/kg

SAR(1 g) = 0.439 W/kg; SAR(10 g) = 0.244 W/kg

Maximum value of SAR (measured) = 0.489 W/kg



0 dB = 0.489 W/kg

Meas.18 Body Plane with Bottom Edge 0mm on Low Channel in LTE Band25 mode with Antenna1

Date: 2023.11.30

Communication System Band: BAND 25; Frequency: 1860 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1860 MHz; σ = 1.393 S/m; ε_r = 40.053; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4℃ Liquid Temperature:21.1℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.21, 8.21, 8.21); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2023.01.30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch26140/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 3.02 W/kg

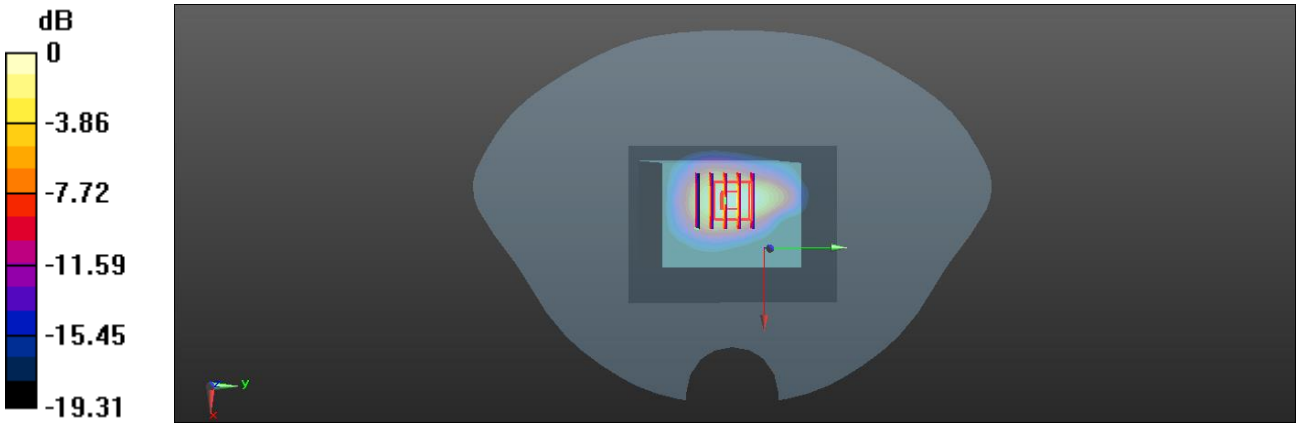
Ch26140/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 34.42 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 4.63 W/kg

SAR(1 g) = 2.48 W/kg; SAR(10 g) = 1.26 W/kg

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



0 dB = 2.82 W/kg

Meas.19 Body Plane with Front Side 10mm on Middle Channel in LTE B26 mode with Antenna1

Date: 2023.11.28

Communication System Band: BAND 26; Frequency: 831.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 831.5 MHz; σ = 0.887 S/m; ε_r = 41.652; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4℃ Liquid Temperature:21.5℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.97, 9.97, 9.97); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2023.01.30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch26865/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.390 W/kg

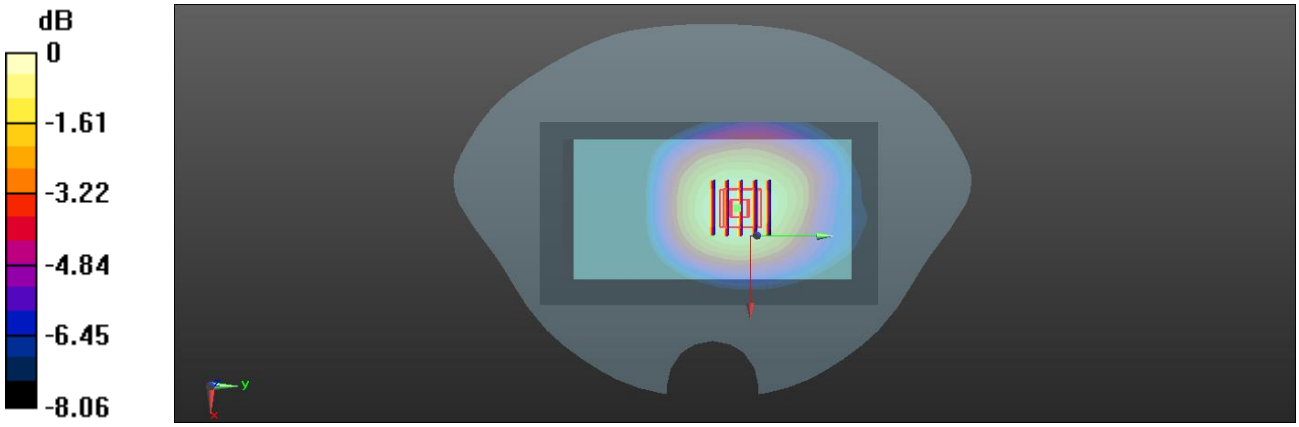
Ch26865/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.64 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.472 W/kg

SAR(1 g) = 0.372 W/kg; SAR(10 g) = 0.278 W/kg

Maximum value of SAR (measured) = 0.393 W/kg



0 dB = 0.393 W/kg

Meas.20 Body Plane with Bottom Edge 0mm on Middle Channel in LTE Band26 mode with Antenna1

Date: 2023.11.28

Communication System Band: BAND 26; Frequency: 831.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 831.5 MHz; σ = 0.887 S/m; ε_r = 41.652; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4℃ Liquid Temperature:21.5℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.97, 9.97, 9.97); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2023.01.30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch26865/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.849 W/kg

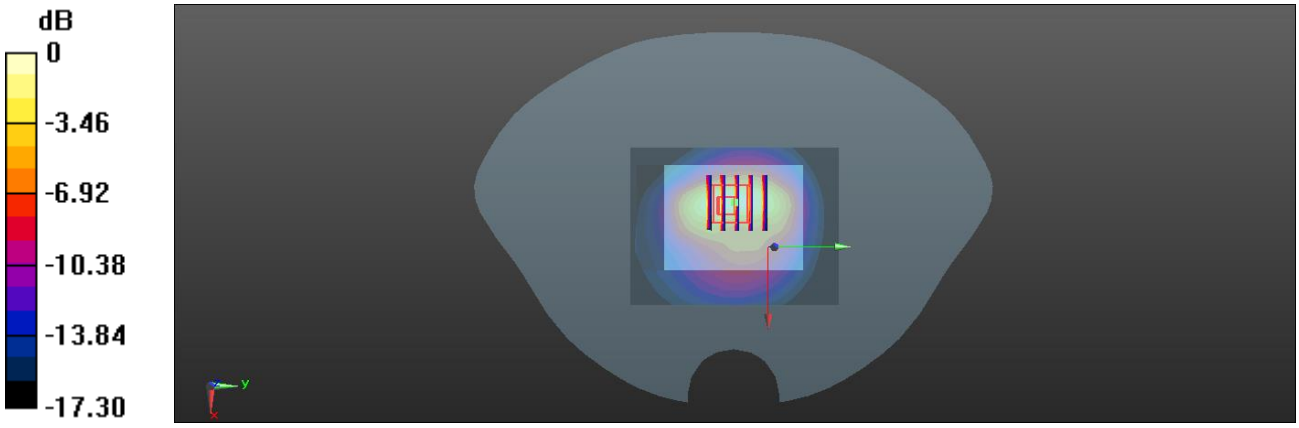
Ch26865/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.88 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 2.24 W/kg

SAR(1 g) = 0.846 W/kg; SAR(10 g) = 0.381 W/kg

Maximum value of SAR (measured) = 0.911 W/kg



0 dB = 0.911 W/kg

Meas.21 Body Plane with Bottom Edge 10mm on Low Channel in LTE Band41 mode with Antenna1

Date: 2023.12.04

Communication System Band: BAND41; Frequency: 2545 MHz;Duty Cycle: 1:1.58

Medium parameters used (interpolated): f = 2545 MHz; σ = 1.911 S/m; ε_r = 39.054; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.2℃ Liquid Temperature:21.3℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.78, 7.78, 7.78); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2023.01.30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch40140/Area Scan (81x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.26 W/kg

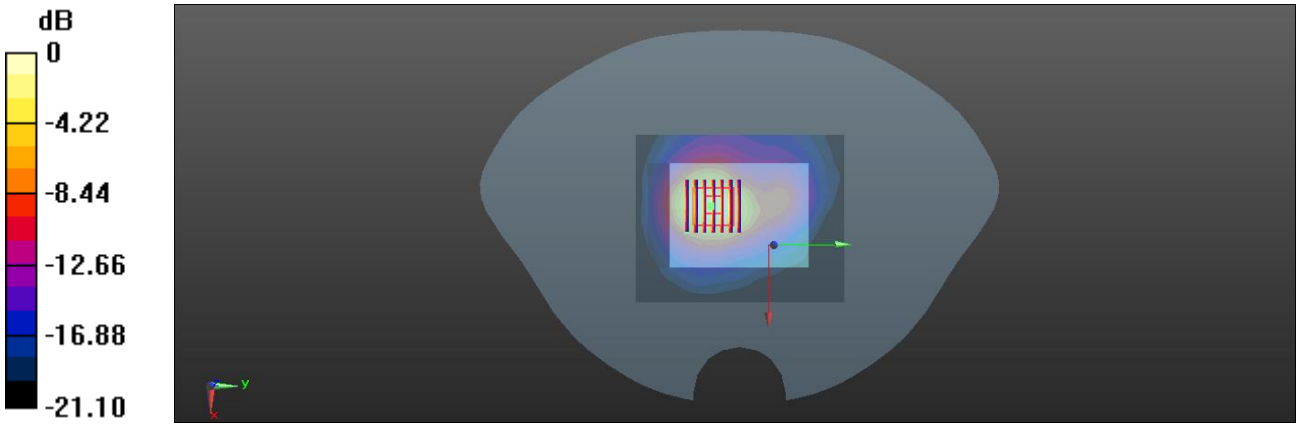
Ch40140/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.71 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.95 W/kg

SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.483 W/kg

Maximum value of SAR (measured) = 1.15 W/kg



0 dB = 1.15 W/kg

Meas.22 Body Plane with Bottom Edge 0mm on Low Channel in LTE Band41 mode with Antenna1

Date: 2023.12.04

Communication System Band: BAND41; Frequency: 2545 MHz;Duty Cycle: 1:1.58

Medium parameters used (interpolated): f = 2545 MHz; σ = 1.911 S/m; ε_r = 39.054; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.2℃ Liquid Temperature:21.3℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.78, 7.78, 7.78); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2023.01.30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch40140/Area Scan (81x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 4.55 W/kg

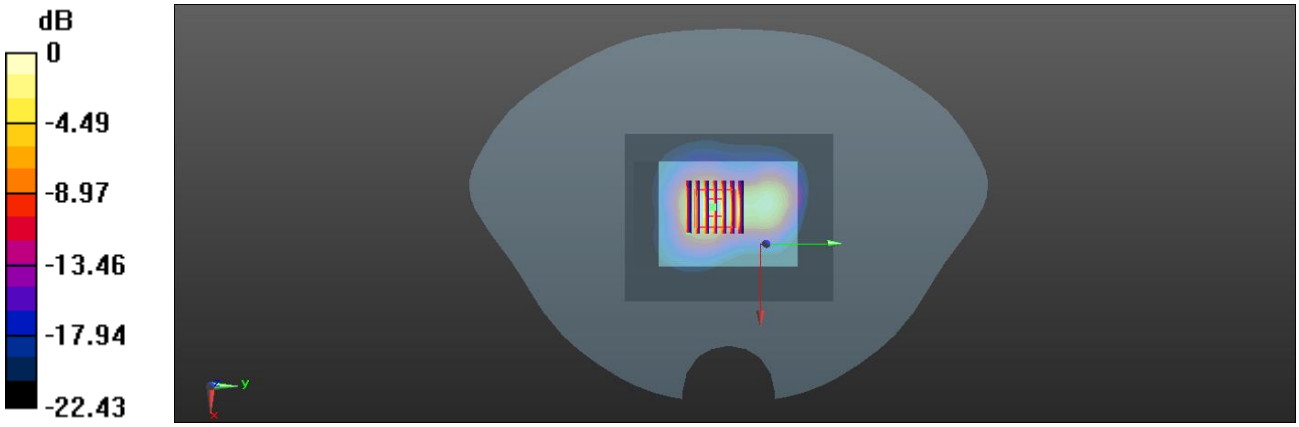
Ch40140/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 39.95 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 7.58 W/kg

SAR(1 g) = 3.5 W/kg; SAR(10 g) = 1.57 W/kg

Maximum value of SAR (measured) = 4.00 W/kg



0 dB = 4.00 W/kg

Meas.23 Body Plane with Front Side 10mm on 1 Channel in IEEE802.11b mode with Antenna2

Date: 2023.12.01

Communication System Band: 2.4G; Frequency: 2412 MHz;Duty Cycle: 1:1.007

Medium parameters used (interpolated): f = 2412 MHz; σ = 1.752 S/m; ε_r = 39.617; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4℃ Liquid Temperature:21.8℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.78, 7.78, 7.78); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2023.01.30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch1/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.127 W/kg

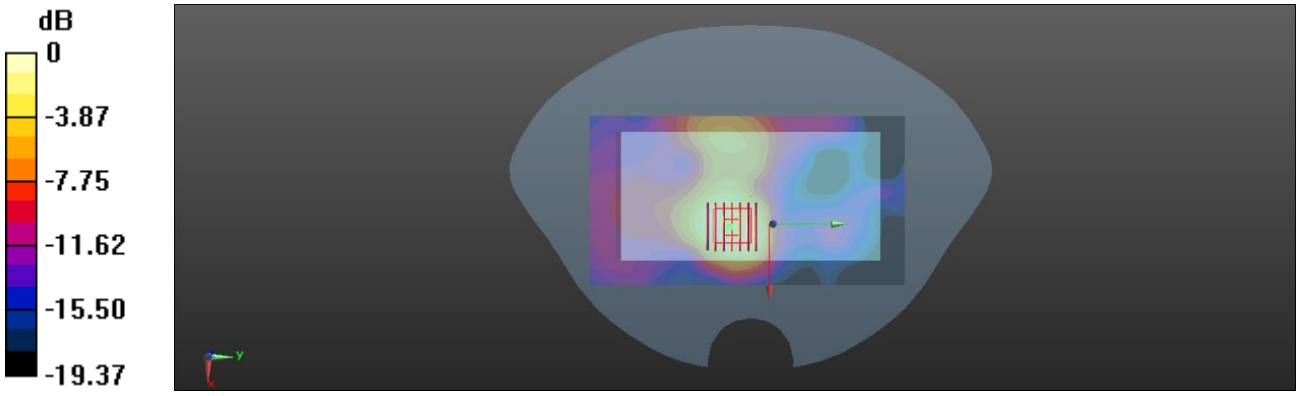
Ch1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.525 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.170 W/kg

SAR(1 g) = 0.101 W/kg; SAR(10 g) = 0.058 W/kg

Maximum value of SAR (measured) = 0.109 W/kg



0 dB = 0.109 W/kg

Meas.24 Body Plane with Right Edge 0mm on 1 Channel in IEEE802.11b mode with Antenna2

Date: 2023.12.01

Communication System Band: 2.4G; Frequency: 2412 MHz;Duty Cycle: 1:1.007

Medium parameters used (interpolated): f = 2412 MHz; σ = 1.752 S/m; ε_r = 39.617; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4℃ Liquid Temperature:21.8℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.78, 7.78, 7.78); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2023.01.30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch1/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.234 W/kg

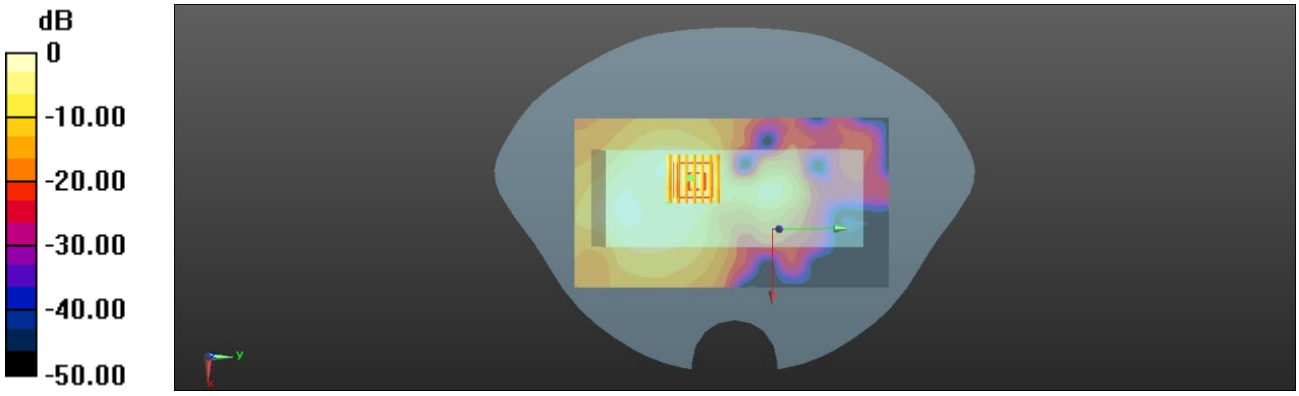
Ch1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.893 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.430 W/kg

SAR(1 g) = 0.208 W/kg; SAR(10 g) = 0.100 W/kg

Maximum value of SAR (interpolated) = 0.234 W/kg



0 dB = 0.234 W/kg

Meas.25 Body Plane with Back Side 10mm on 58 Channel in IEEE 802.11ac80 mode with Antenna2

Date: 2023.12.05

Communication System Band: WLAN(ac) 80Mhz; Frequency: 5290 MHz;Duty Cycle: 1:1.138

Medium parameters used (interpolated): f = 5290 MHz; σ = 4.787 S/m; ε_r = 35.272; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5℃ Liquid Temperature:21.8℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(5.37, 5.37, 5.37) ; Calibrated: 2023.01.19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2023.01.30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch58/Area Scan (101x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.136 W/kg

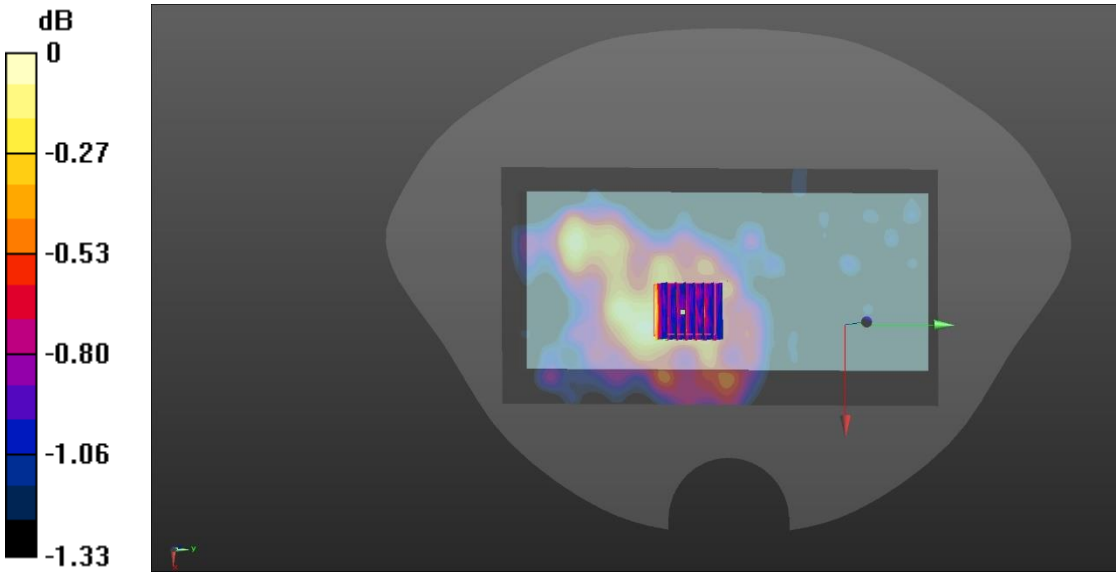
Ch58/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.536 V/m; Power Drift =0.01

Peak SAR (extrapolated) = 0.135 W/kg

SAR(1 g) = 0.124 W/kg; SAR(10 g) = 0.116 W/kg

Maximum value of SAR (measured) = 0.135 W/kg



0 dB = 0.135 W/kg

Meas.26 Body Plane with Back Side 10mm on 100 Channel in IEEE 802.11a mode with Antenna2

Date: 2023.12.06

Communication System Band: 5.6G; Frequency: 5500 MHz;Duty Cycle: 1:1.035

Medium parameters used: f = 5500 MHz; σ = 4.896 S/m; ε_r = 35.654; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5℃ Liquid Temperature:21.7℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(4.88, 4.88, 4.88); Calibrated: 2023.01.19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2023.01.30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch100/Area Scan (101x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.210 W/kg

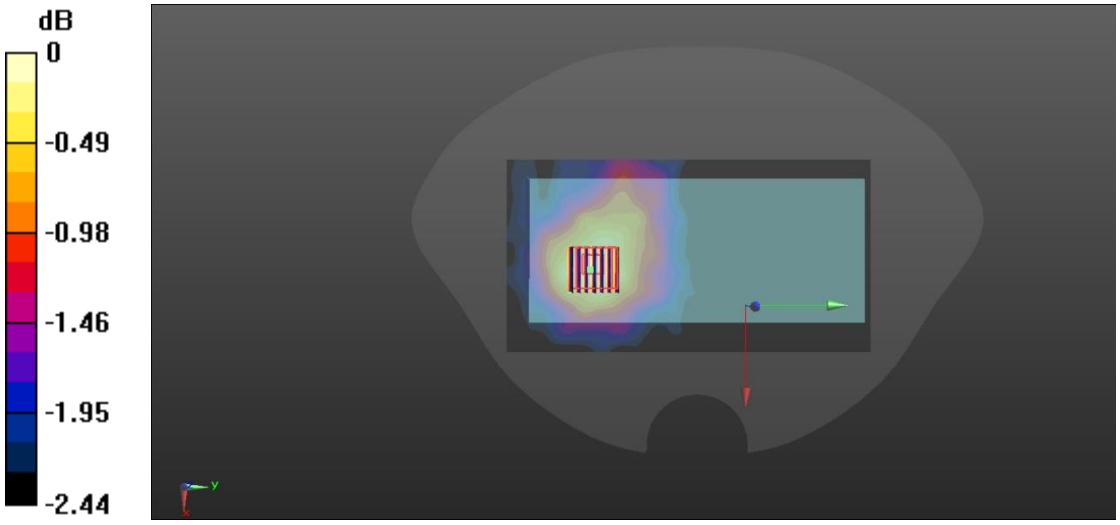
Ch100/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.934 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.209 W/kg

SAR(1 g) = 0.192 W/kg; SAR(10 g) = 0.164 W/kg

Maximum value of SAR (measured) = 0.209 W/kg



0 dB = 0.209 W/kg

Meas.27 Body Plane with Left Edge 10mm on 42 Channel in IEEE802.11ac80 mode with Antenna2

Date: 2023.12.05

Communication System Band: 5.2G; Frequency: 5210 MHz;Duty Cycle: 1:1.138

Medium parameters used (interpolated): f = 5210 MHz; σ = 4.624 S/m; ε_r = 36.287; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5℃ Liquid Temperature:21.8℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(5.67, 5.67, 5.67); Calibrated: 2023.01.19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2023.01.30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch42/Area Scan (111x201x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.0949 W/kg

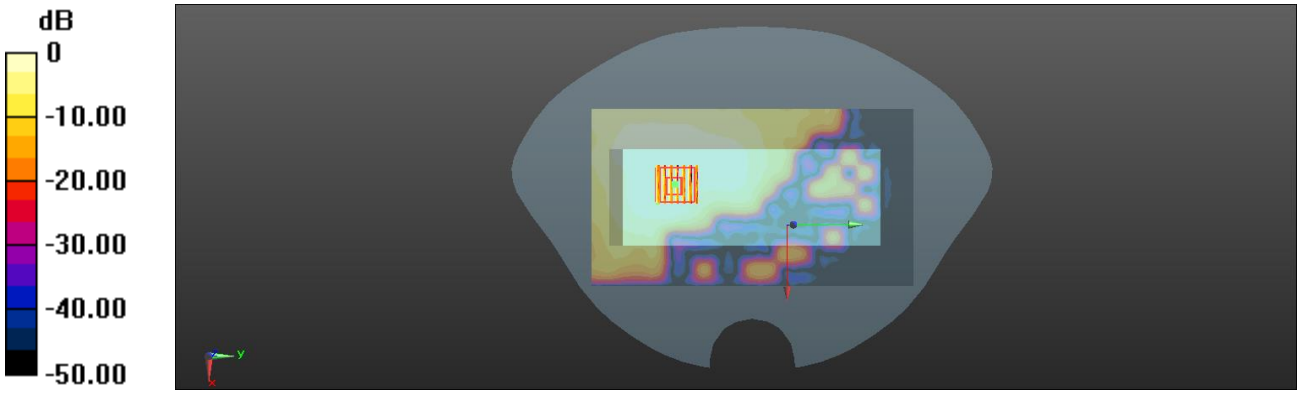
Ch42/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.114 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.171 W/kg

SAR(1 g) = 0.053 W/kg; SAR(10 g) = 0.023 W/kg

Maximum value of SAR (measured) = 0.0920 W/kg



0 dB = 0.0920 W/kg

Meas.28 Body Plane with Back Side 10mm on 165 Channel in IEEE 802.11a mode with Antenna2

Date: 2023.12.07

Communication System Band: 5.8G; Frequency: 5825 MHz;Duty Cycle: 1:1.035

Medium parameters used (interpolated): f = 5825 MHz; σ = 5.314 S/m; ε_r = 34.806; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6℃ Liquid Temperature:21.1℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(4.83, 4.83, 4.83); Calibrated: 2023.01.19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2023.01.30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch165/Area Scan (101x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.162 W/kg

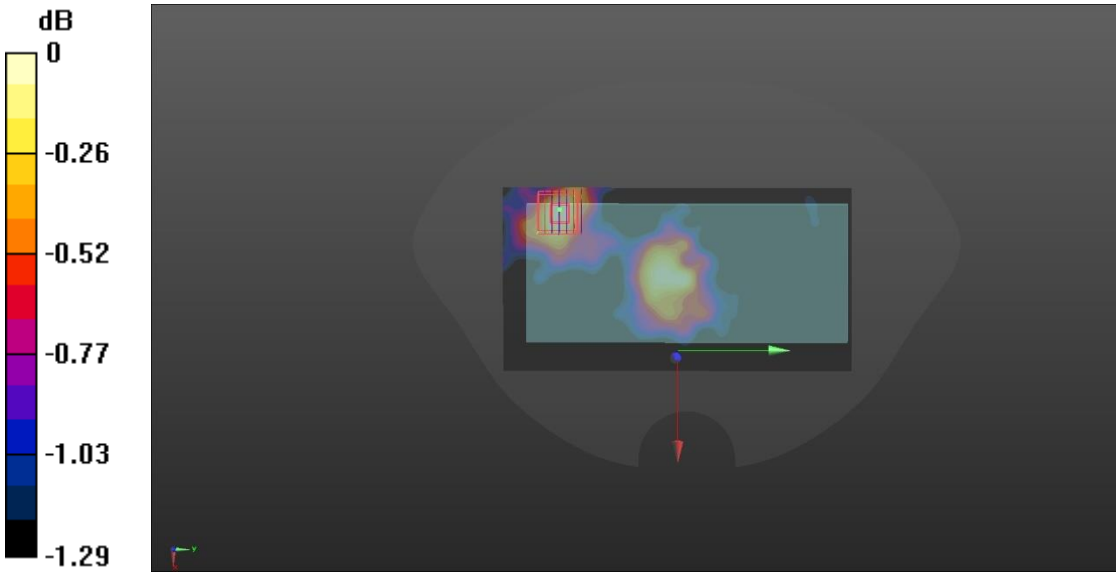
Ch165/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 5.160 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.156 W/kg

SAR(1 g) = 0.145 W/kg; SAR(10 g) = 0.133 W/kg

Maximum value of SAR (measured) = 0.156 W/kg



0 dB = 0.156 W/kg

Meas.29 Body Plane with Left Edge 0mm on 58 Channel in IEEE802.11ac80 mode with Antenna2

Date: 2023.12.05

Communication System Band: 5.3G; Frequency: 5290 MHz;Duty Cycle: 1:1.138

Medium parameters used (interpolated): f = 5290 MHz; σ = 4.787 S/m; ε_r = 35.273; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5℃ Liquid Temperature:21.8℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(5.37, 5.37, 5.37); Calibrated: 2023.01.19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2023.01.30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch58/Area Scan (111x201x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.238 W/kg

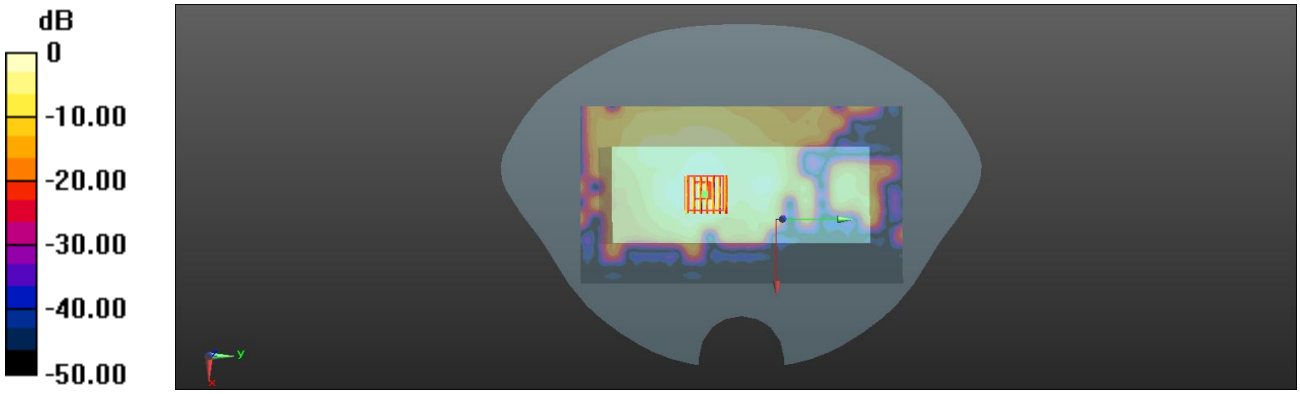
Ch58/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.451 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.408 W/kg

SAR(1 g) = 0.126 W/kg; SAR(10 g) = 0.053 W/kg

Maximum value of SAR (measured) = 0.222 W/kg



0 dB = 0.222 W/kg

Meas.30 Body Plane with Left Edge 0mm on 100 Channel in IEEE802.11a mode with Antenna2

Date: 2023.12.06

Communication System Band: 5.6G; Frequency: 5500 MHz;Duty Cycle: 1:1.035

Medium parameters used: f = 5500 MHz; σ = 4.896 S/m; ε_r = 35.654; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5℃ Liquid Temperature:21.7℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(4.88, 4.88, 4.88); Calibrated: 2023.01.19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2023.01.30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch100/Area Scan (111x201x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.342 W/kg

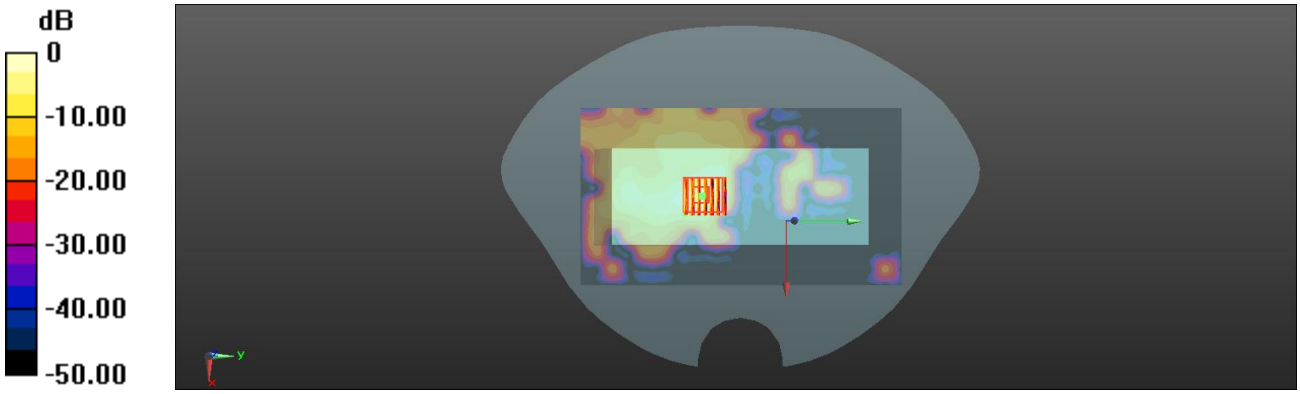
Ch100/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.620 W/kg

SAR(1 g) = 0.161 W/kg; SAR(10 g) = 0.052 W/kg

Maximum value of SAR (measured) = 0.312 W/kg



0 dB = 0.312 W/kg

Meas.31 Body Plane with Front Side 10mm on 39 Channel in Bluetooth mode with Antenna2

Date: 2023.12.01

Communication System Band: BT; Frequency: 2441 MHz;Duty Cycle: 1:1.304

Medium parameters used (interpolated): f = 2441 MHz; σ = 1.787 S/m; ε_r = 39.435; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4℃ Liquid Temperature:21.8℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.78, 7.78, 7.78); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2023.01.30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch39/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.0396 W/kg

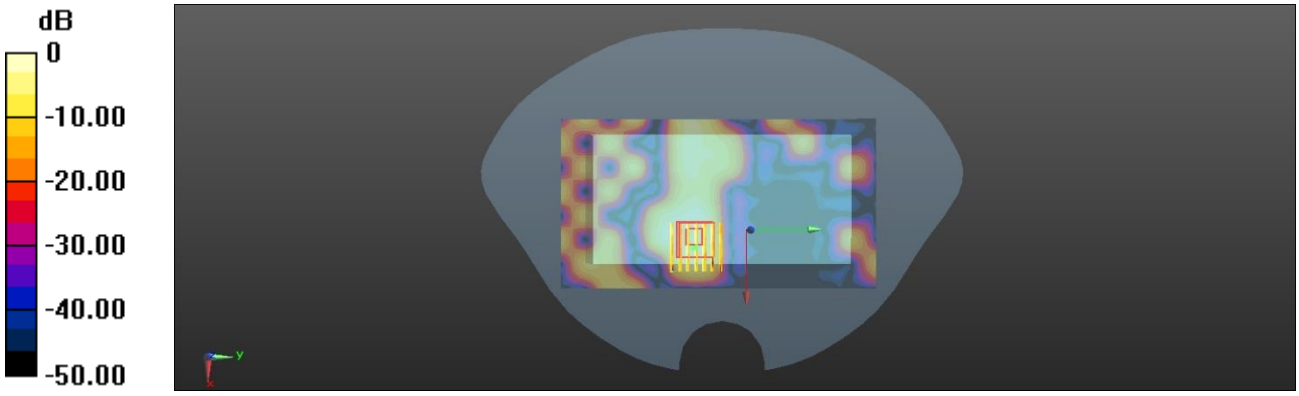
Ch39/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.2640 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.0260 W/kg

SAR(1 g) = 0.015 W/kg; SAR(10 g) = 0.00831 W/kg

Maximum value of SAR (measured) = 0.0165 W/kg



0 dB = 0.0165 W/kg

Meas.32 Body Plane with Right Edge 0mm on 39 Channel in Bluetooth mode with Antenna2

Date: 2023.12.01

Communication System Band: BT; Frequency: 2441 MHz;Duty Cycle: 1:1.304

Medium parameters used (interpolated): f = 2441 MHz; σ = 1.787 S/m; ε_r = 39.435; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4℃ Liquid Temperature:21.8℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.78, 7.78, 7.78); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2023.01.30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch39/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.0294 W/kg

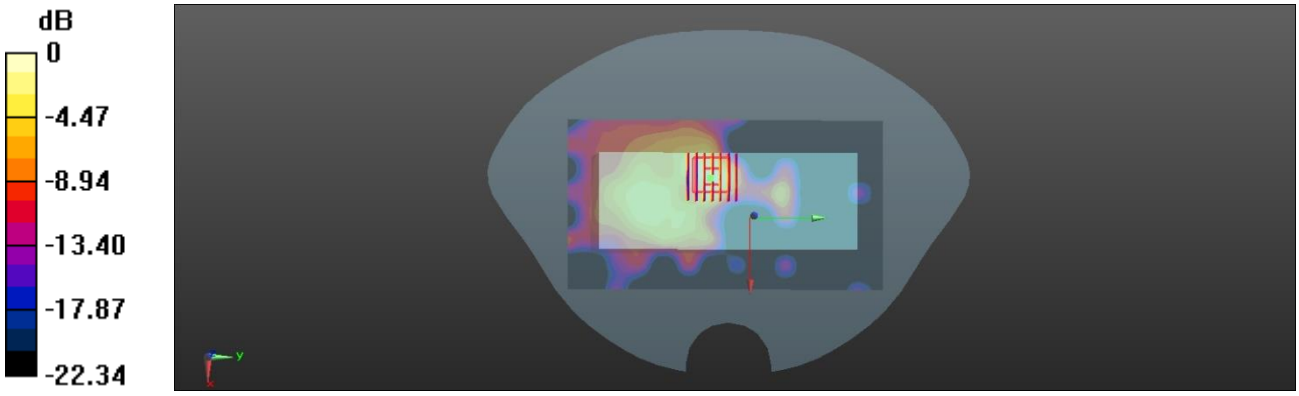
Ch39/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.9990 V/m; Power Drift =0.03 dB

Peak SAR (extrapolated) = 0.0550 W/kg

SAR(1 g) = 0.024 W/kg; SAR(10 g) = 0.011 W/kg

Maximum value of SAR (measured) = 0.0276 W/kg



0 dB = 0.0276 W/kg

Meas.33 Body Plane with Bottom Edge 10mm on Middle Channel in LTE Band2 mode

Date: 2024.01.12

Communication System Band: Band 2; Frequency: 1880 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1880 MHz; σ = 1.387 S/m; ε_r = 40.13; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5℃ Liquid Temperature:21.3℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.21, 8.21, 8.21); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1711; Calibrated: 2023.03.17
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch18900/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.195 W/kg

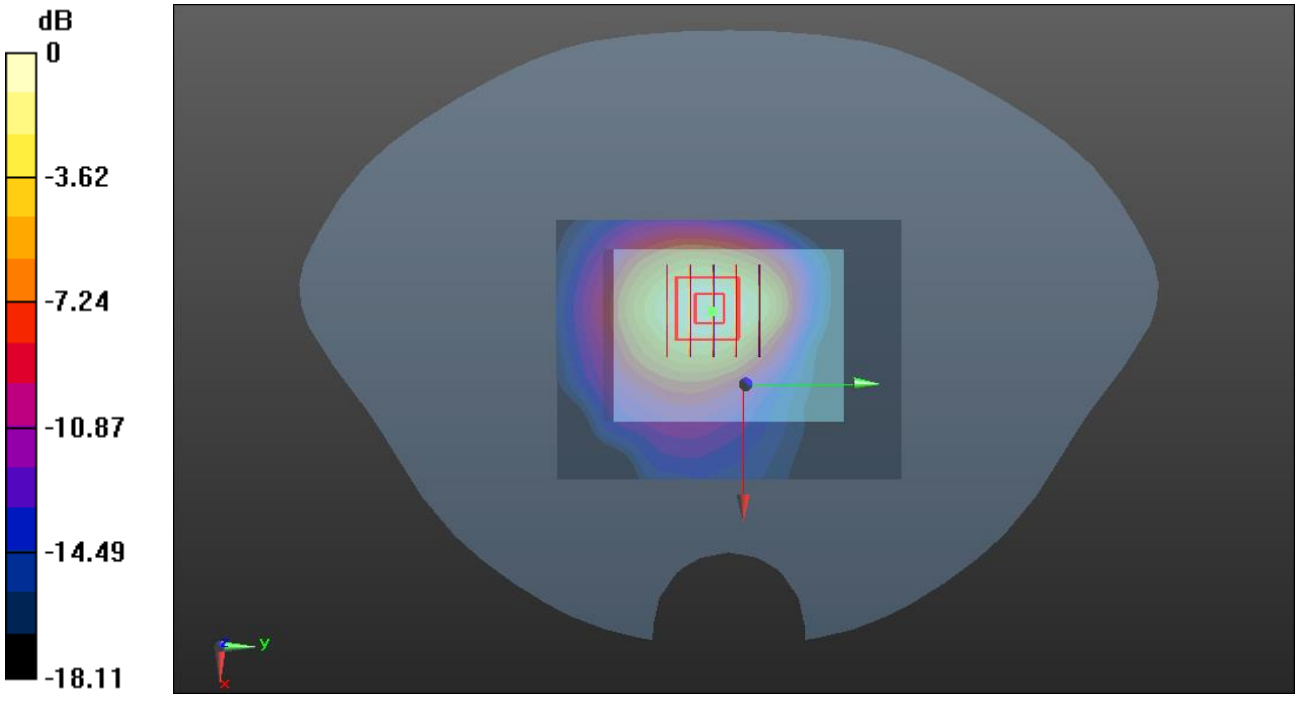
Ch18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.054 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.267 W/kg

SAR(1 g) = 0.163 W/kg; SAR(10 g) = 0.093 W/kg

Maximum value of SAR (measured) = 0.180 W/kg



0 dB = 0.180 W/kg

Meas.34 Body Plane with Bottom Edge 0mm on Middle Channel in LTE Band2 mode

Date: 2024.01.12

Communication System Band: Band 2; Frequency: 1880 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1880 MHz; σ = 1.387 S/m; ε_r = 40.13; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5℃ Liquid Temperature:21.3℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.21, 8.21, 8.21); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1711; Calibrated: 2023.03.17
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch18900/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.56 W/kg

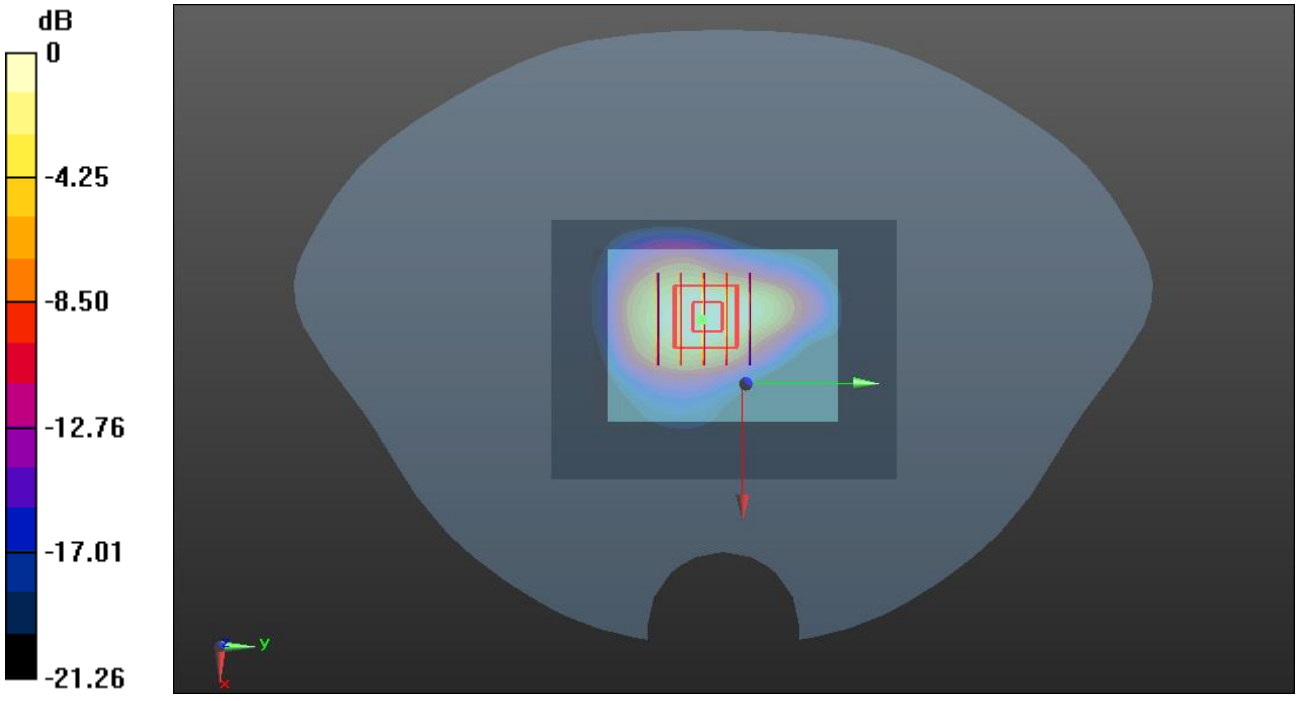
Ch18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.57 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 2.07 W/kg

SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.568 W/kg

Maximum value of SAR (measured) = 1.23 W/kg



0 dB = 1.23 W/kg

Meas.35 Body Plane with Front Side 10mm on Middle Channel in LTE Band5 mode

Date: 2024.01.12

Communication System Band: Band 5; Frequency: 836.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.908 S/m; ε_r = 41.637; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5℃ Liquid Temperature:21.3℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.97, 9.97, 9.97); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1711; Calibrated: 2023.03.17
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch20525/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.705 W/kg

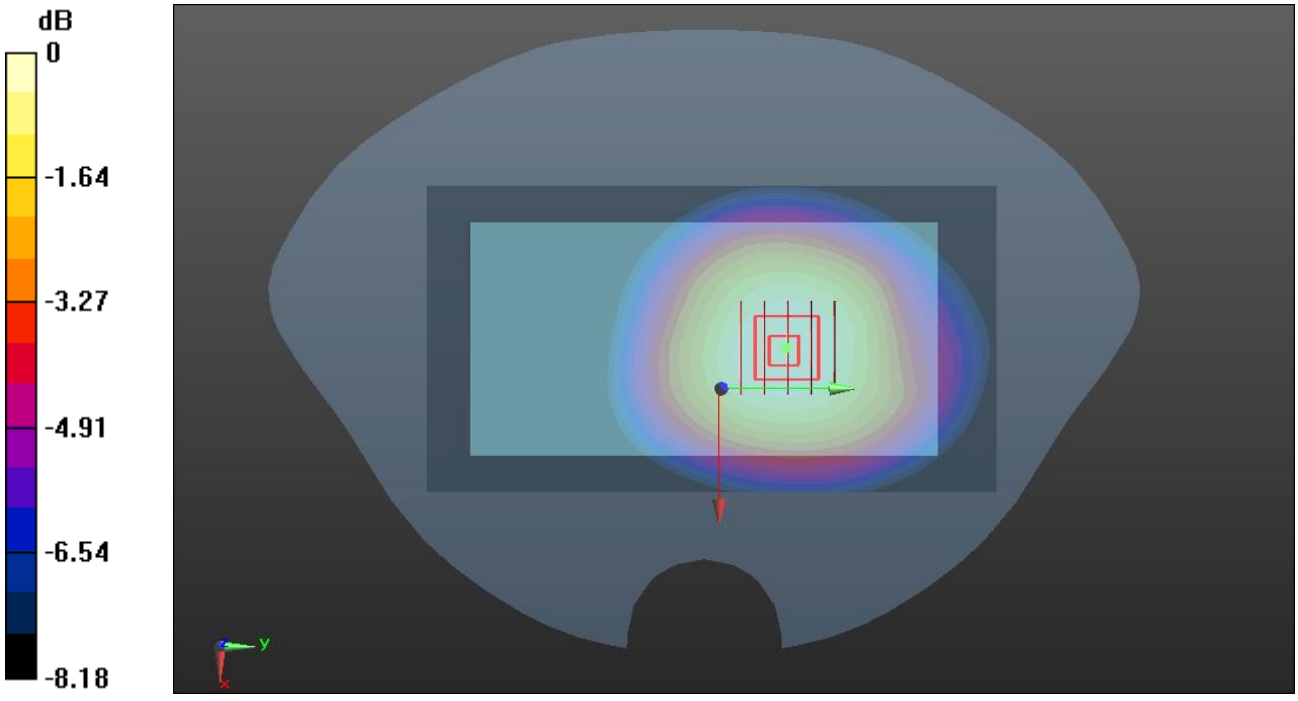
Ch20525/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.46 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.797 W/kg

SAR(1 g) = 0.644 W/kg; SAR(10 g) = 0.490 W/kg

Maximum value of SAR (measured) = 0.675 W/kg



0 dB = 0.675 W/kg

Meas.36 Body Plane with Bottom Edge 0mm on Middle Channel in LTE Band5 mode

Date: 2024.01.12

Communication System Band: Band 5; Frequency: 836.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.908 S/m; ε_r = 41.637; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5℃ Liquid Temperature:21.3℃

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.97, 9.97, 9.97); Calibrated: 2023.01.19;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1711; Calibrated: 2023.03.17
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch20525/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.39 W/kg

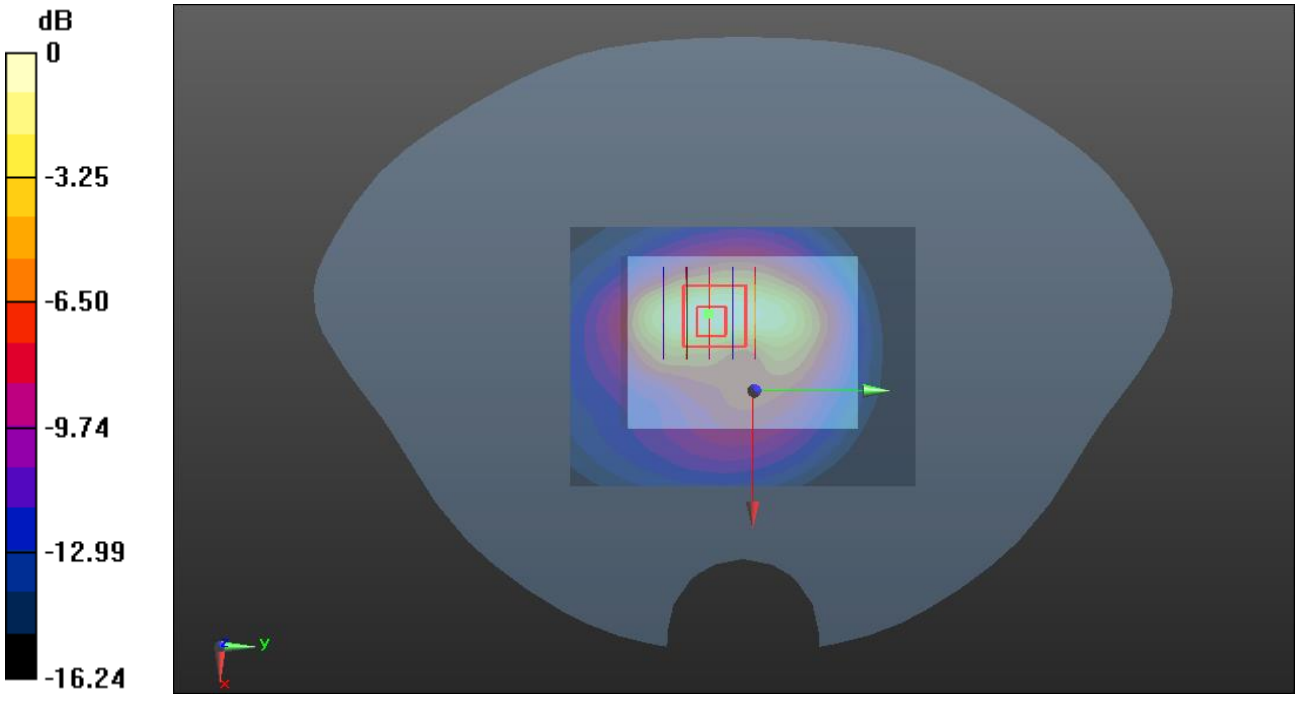
Ch20525/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.79 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 3.58 W/kg

SAR(1 g) = 1.38 W/kg; SAR(10 g) = 0.624 W/kg

Maximum value of SAR (measured) = 1.40 W/kg



0 dB = 1.40 W/kg

ANNEX D EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ23B0384-AW.pdf”.

ANNEX E SAR TEST SETUP PHOTOS

Please refer the document “BL-SZ23B0384-AS.pdf”.

ANNEX F CALIBRATION REPORT

Please refer the document “BL-SZ23B0384-AC.pdf”.

ANNEX G TUNE-UP PROCEDURE

Please refer the document “BL-SZ23B0384-AT.pdf”.

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--END OF REPORT--