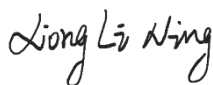


# TEST REPORT

**Applicant:** Xiaomi Communications Co., Ltd.  
**Address:** #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road,  
Haidian District, Beijing, China, 100085  
**Equipment Type:** Mobile Phone  
**Model Name:** 24044RN32L  
**Brand Name:** Redmi  
**FCC ID:** 2AFZZN32L  
**Test Standard:** FCC 47 CFR Part 2.1093  
(refer to section 3.1)  
**Maximum SAR:** Head(1 g@0mm): 0.84 W/kg  
Body-worn (1 g@10mm): 0.72 W/kg  
Hotspot (1 g@10mm): 0.72 W/kg  
Specific (10 g@0mm): 2.35 W/kg  
**Sample Arrival Date:** Feb. 19, 2024  
**Test Date:** Feb. 27, 2024 - Mar. 06, 2024  
**Date of Issue:** Mar. 20, 2024

**ISSUED BY:**

Shenzhen BALUN Technology Co., Ltd.

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

<b>Revision History</b>		
Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Mar. 20, 2024</u>	<u>Initial Issue</u>

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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 66850100

## 1.2 Test Location

Name	Shenzhen BALUN Technology Co.,Ltd.
Location	<input checked="" type="checkbox"/> Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	<input type="checkbox"/> 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°C to 25°C
Ambient Relative Humidity	30% to 70%

## 2 PRODUCT INFORMATION

### 2.1 Applicant Information

Applicant	Xiaomi Communications Co., Ltd.
Address	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

### 2.2 Manufacturer Information

Manufacturer	Xiaomi Communications Co., Ltd.
Address	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

### 2.3 General Description for Equipment under Test (EUT)

EUT Name	Mobile Phone
Model Name Under Test	24044RN32L
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	1351C3Y2
Software Version	Android14
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A
EUT ID	S23, S24, S27, S28
IMEI Number	S23: IMEI1:867400070008184, IMEI2: 867400070008192
	S24: IMEI1:867400070008085, IMEI2: 867400070008093
	S27: IMEI1:867400070008341, IMEI2: 867400070008358
	S28: IMEI1:867400070008408, IMEI2: 867400070008416
Note1: EUT ID is used to identify the test sample in the lab internally.	
Note2: It is performed to test SAR with the EUT S27, S28 and conducted power with the EUT S23& S24.	

### 2.4 Ancillary Equipment

Please refer the document "BL-SZ2410652-AW EUT external photo.pdf".

## 2.5 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EDGE 850/900/1800/1900 3G Network WCDMA/HSDPA/HSUPA Band 1/2/4/5/8 4G Network FDD LTE Band 1/2/3/4/5/7/8/13/26/28/66 TDD LTE Band 38/40/41 Bluetooth (BR+EDR+BLE) 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20) GPS, GLONASS, BDS, Galileo, FM receiver
Note: The EUT is a mobile phone, which supports dual SIM card under the same transceiver. Each SIM supports GSM, WCDMA and LTE, and both SIM share the same transmitting electrocircuit, NV parameters, so only SIM1 was tested in this report.	

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

Operating Mode	GSM, WCDMA, LTE, 2.4G 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 13	TX: 777 ~ 787 MHz	RX: 746 ~ 756 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: 2496 ~ 2690 MHz	TX: 2496 ~ 2690 MHz
	LTE Band 66	TX: 1710 ~ 1780 MHz	RX: 2110 ~ 2180 MHz
802.11b/g/n(HT20)	2412~2462 MHz		
Bluetooth	2402~2480 MHz		
Antenna Type	WWAN: PIFA Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna		
DTM	Support		
Hotspot Function	Support		
Power Reduction	Support		
Exposure Category	General Population/Uncontrolled exposure		
Product Type	Portable Device		

EUT Type	<input type="checkbox"/> Production unit	<input checked="" type="checkbox"/> Identical prototype
<p>Note:</p> <ol style="list-style-type: none"><li>1. The device utilizes independent power reduction mechanisms for SAR compliance for the 2/3/4G transmitter for held-to-ear exposure conditions.</li><li>2. The device utilizes independent power reduction mechanisms for SAR compliance for the 2/3/4G transmitter for near to body exposure conditions.</li><li>3. The reduction power details please refer section 8.6.</li></ol>		



### 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	IEEE Std. 1528-2013	IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate(SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
4	KDB 447498 D04 v01	447498 D04 Interim General RF Exposure Guidance v01
5	KDB 941225 D01 v03r01	3G SAR MEAUREMENT PROCEDURES
6	KDB 941225 D05v02r05	SAR Evaluation Considerations for LTE Devices
7	KDB 941225 D06v02r01	SAR EVALUATION PROCEDURES FOR PORTABLE DEVICES WITH WIRELESS ROUTER CAPABILITIES
8	KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
9	KDB 865664 D02 v01r02	RF Exposure Reporting
10	KDB 648474 D04 v01r03	SAR EVALUATION CONSIDERATIONS FOR WIRELESS HANDSETS
11	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/ Controlled Exposure
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)				MaximumReport SAR(W/kg)			
		Head (0mm)	Body-worn (10mm)	Hotspot (10mm)	Specific (0mm)	Head (0mm)	Body-worn (10mm)	Hotspot (10mm)	Specific (0mm)
		1g SAR			10g SAR	1g SAR			10g SAR
PCE	GSM 850	0.71	0.59	0.59	/	0.84	0.72	0.72	2.35
	GSM 1900	0.70	0.43	0.43	/				
	WCDMA Band 2	0.69	0.59	0.59	/				
	WCDMA Band 4	0.77	<b>0.72</b>	<b>0.72</b>	2.24				
	WCDMA Band 5	0.59	0.52	0.52	/				
	LTE Band 2	0.69	0.46	0.46	/				
	LTE Band 4	0.64	0.65	0.65	/				
	LTE Band 5	0.68	0.45	0.45	/				
	LTE Band 7	0.65	0.60	0.60	1.47				
	LTE Band 13	0.57	0.39	0.39	/				
	LTE Band 26	0.55	0.45	0.45	/				
	LTE Band 66	<b>0.84</b>	0.64	0.64	1.74				
	LTE Band 38	0.51	0.45	0.45	2.04				
	LTE Band 41	0.70	0.52	0.52	<b>2.35</b>				
DTS	2.4G WLAN	0.81	0.24	0.24	/				
DSS	Bluetooth	0.09	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 0.84 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 2.35 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 ( $\rho$ ). The equation description is as below:

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

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

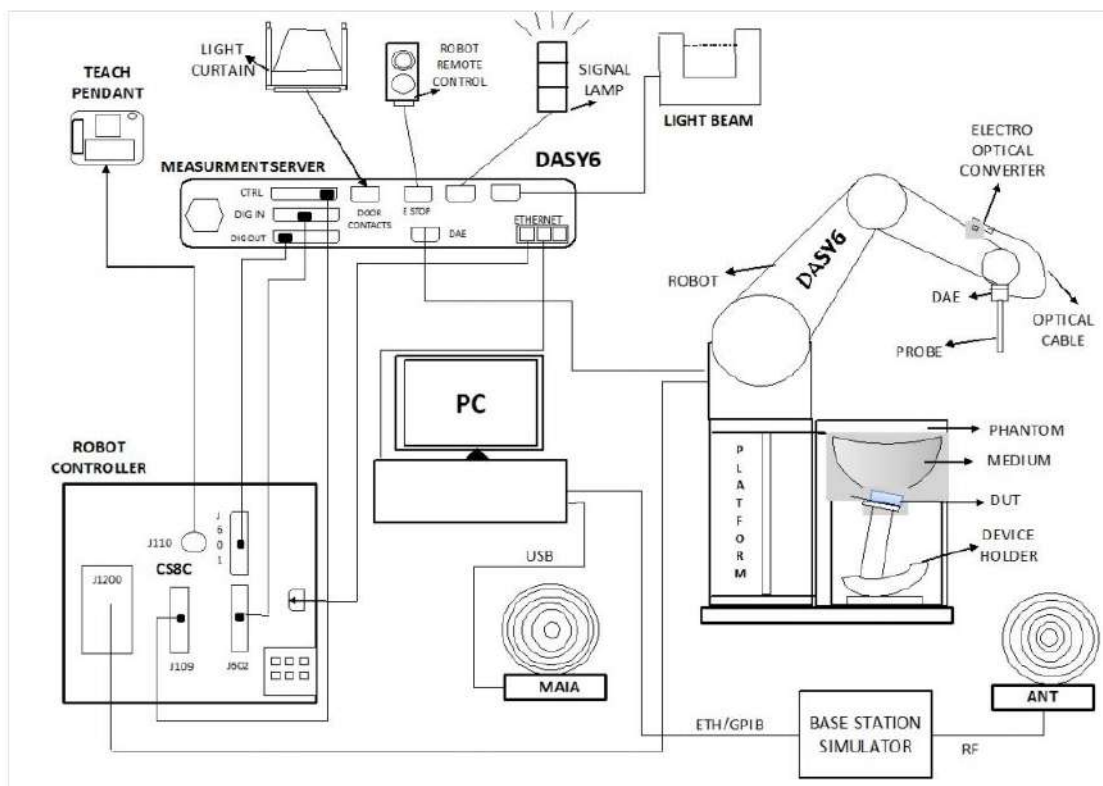
$$\mathbf{SAR} = \frac{\sigma E^2}{\rho}$$

Where:  $\sigma$  is the conductivity of the tissue,

$\rho$  is 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 DASY 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  $\pm 0.02$  mm)
- High reliability  
(industrial design)
- Low maintenance costs  
(virtually maintenance free due to direct drive gears; no belt drives)
- Jerk-free straight movements  
(brushless synchron motors; no stepper motors)
- Low ELF interference  
(motor control fields shielded via the closed metallic constructions shields)

### 4.2.3 E-FieldProbe

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:7607 with following specifications is used.

Construction	Symmetrical design with triangular core Built-in optical fiber for surface detection system Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., glycoether)
Calibration	ISO/IEC 17025 calibration service available
Frequency	4 MHz to 10 GHz; Linearity: $\pm 0.2$ dB
Directivity	$\pm 0.2$ dB in HSL (rotation around probe axis) ; $\pm 0.4$ dB in HSL (rotation normal to probe axis)
Dynamic range	5 $\mu$ W/g to > 100 mW/g; Linearity: $\pm 0.2$ 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 IEC/IEEE 62209-1528 and IEEE 1528 std, with CALISAR, Antenna proprietary calibration system. The calibration is performed with the IEC/IEEE 62209-1528annexe technique using reference guide at the five frequencies.



#### 4.2.4 Data Acquisition Electronics

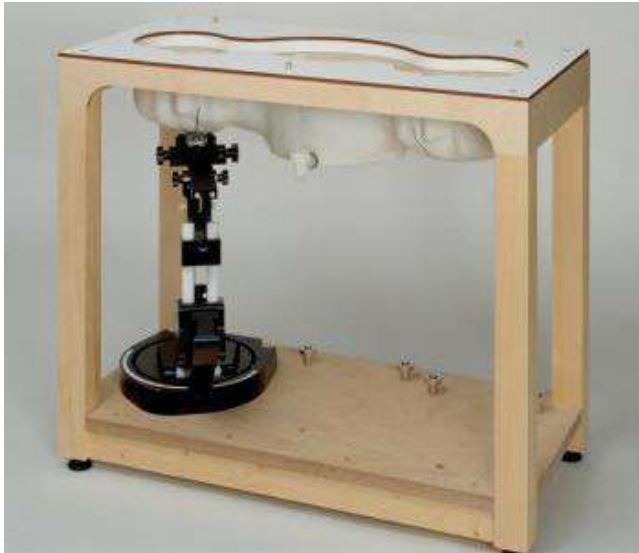
The data acquisition electronics (DAE) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converte and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an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



- Input Impedance: 200M $\Omega$
- 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 SN1859**



Serial Number	Material	Length	Height
SN 1859 SAM2	Vinylester, glass fiber reinforced	1000	500

#### 4.2.6 Device Holder

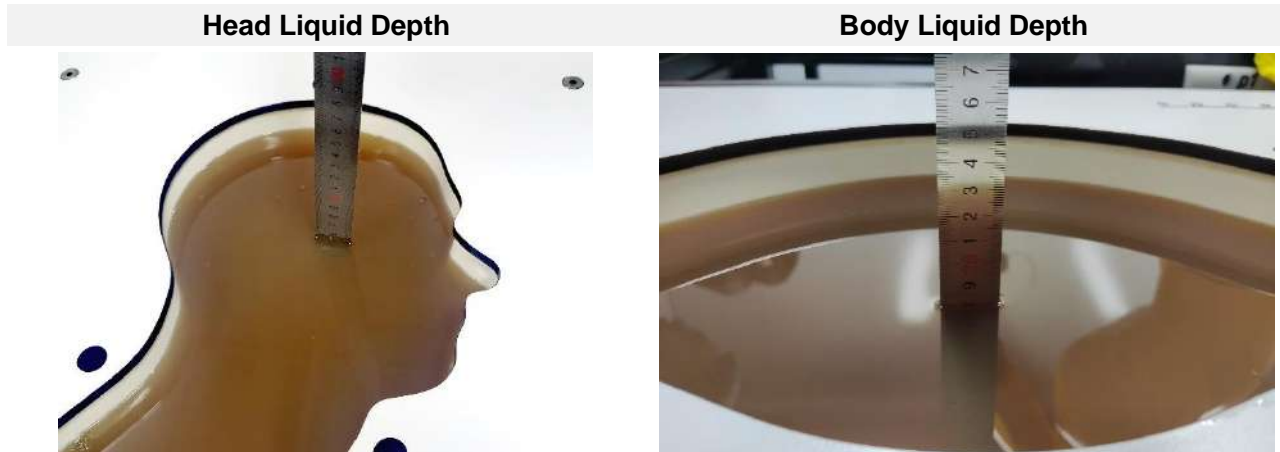
The DASY5 device holder has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of 65°. The bottom plate contains three pair of bolts for 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. In compliance 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%.



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	Ethenediol, Sodium petroleum sulfonate, Hexylene Glycol / 2-Methyl-pentane-2.4-diol, Alkoxylated alcohol

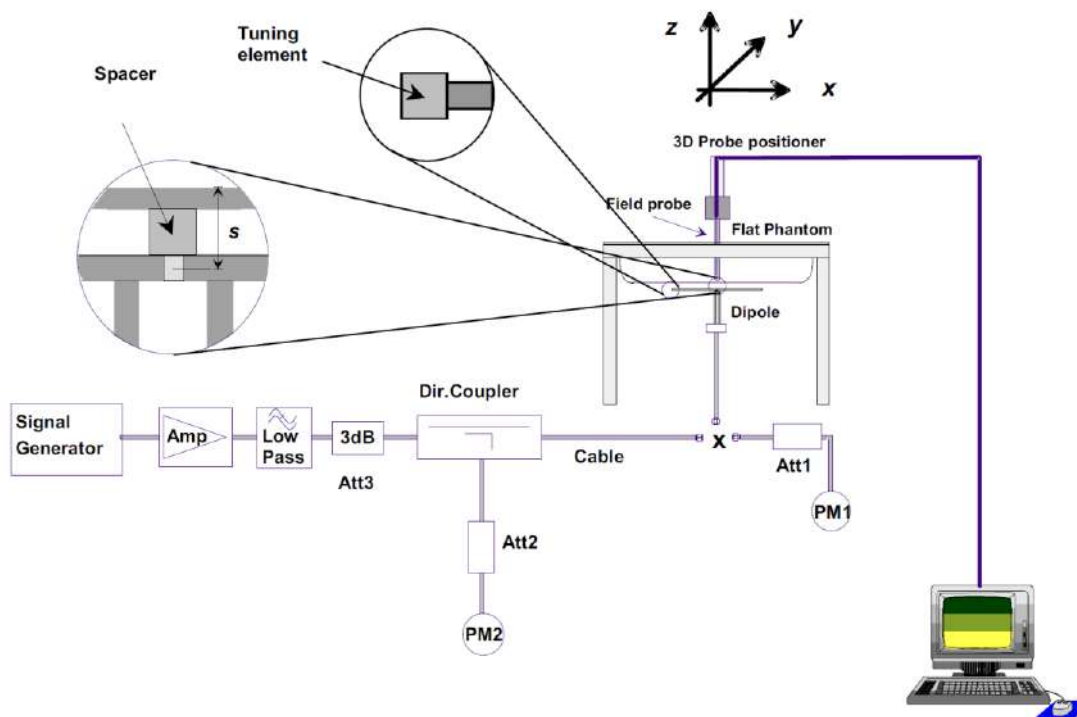
## 5 SYSTEM VERIFICATION

### 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

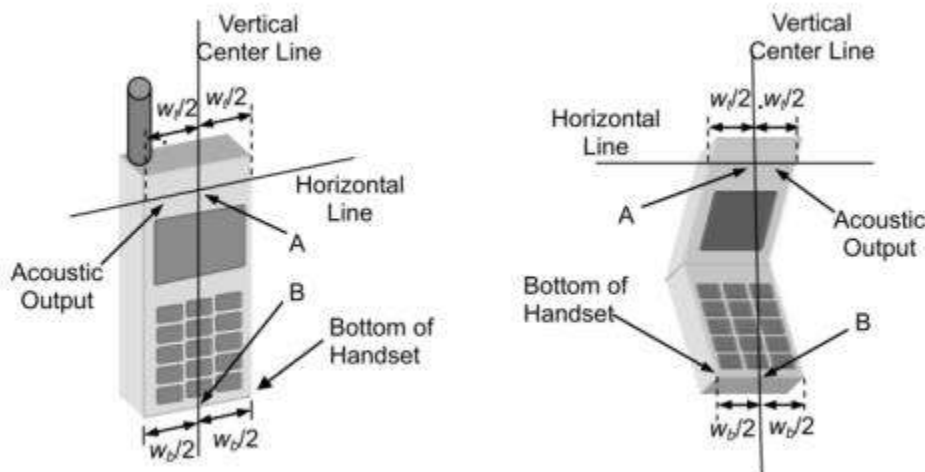
According to KDB 648474 D04 Handset, handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

### 6.1 Head Exposure Conditions

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

#### 6.1.1 Two Imaginary Lines on the Handset

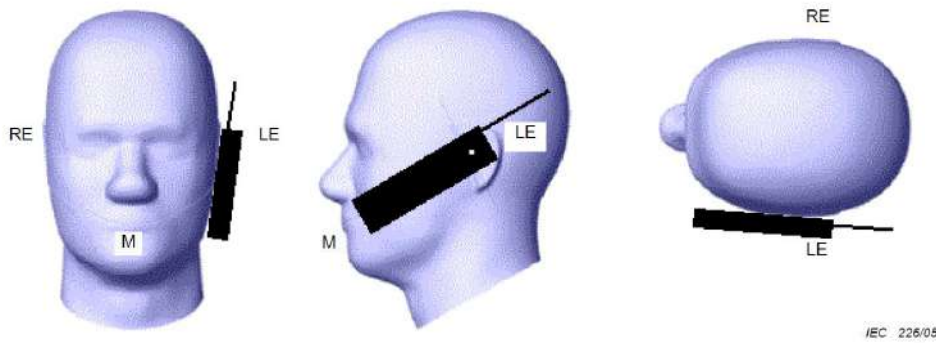
- The vertical centerline passes through two points on the front side of the handset - the midpoint of the width  $w_t$  of the handset at the level of the acoustic output, and the midpoint of the width  $w_b$  of the bottom of the handset.
- The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output. The horizontal line is also tangential to the face of the handset at point A.
- The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily parallel to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.



#### 6.1.2 Cheek Position

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

contact with the ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost.



### 6.1.3 Tilted Position

- (a) To position the device in the “cheek” position described above.
- (b) While maintaining the device the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost.

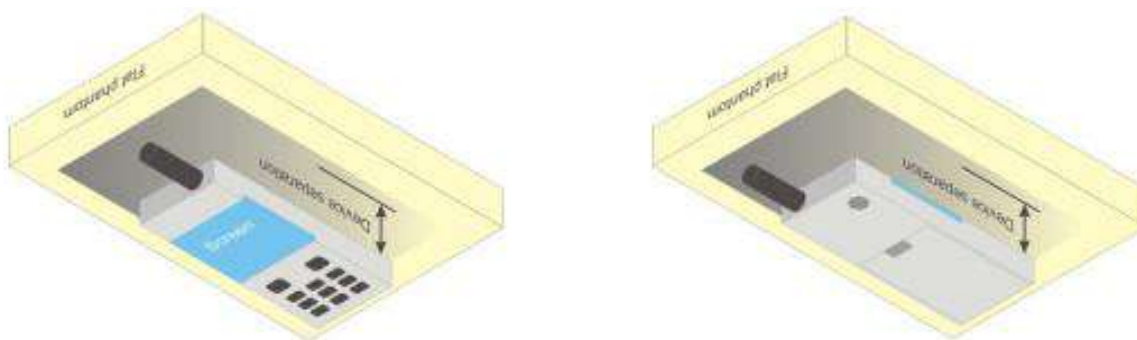


## 6.2 Body-worn Position Conditions

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.

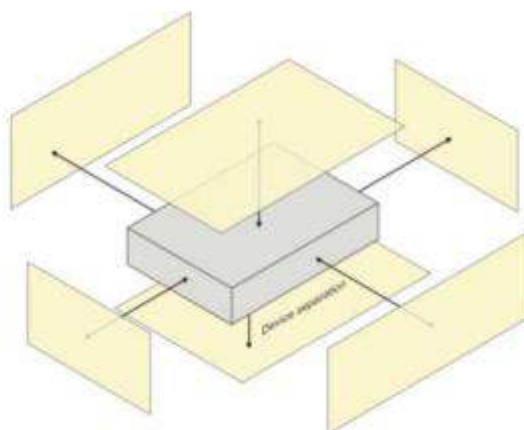
Body-worn accessory SAR compliance is based on a single minimum test separation distance for all wireless and operating modes applicable to each body-worn accessory used by the host, and according to the relevant voice and/or data mode transmissions and operations. If a body-worn accessory supports voice 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  $\leq 5$  mm to support compliance.





### 6.3 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).



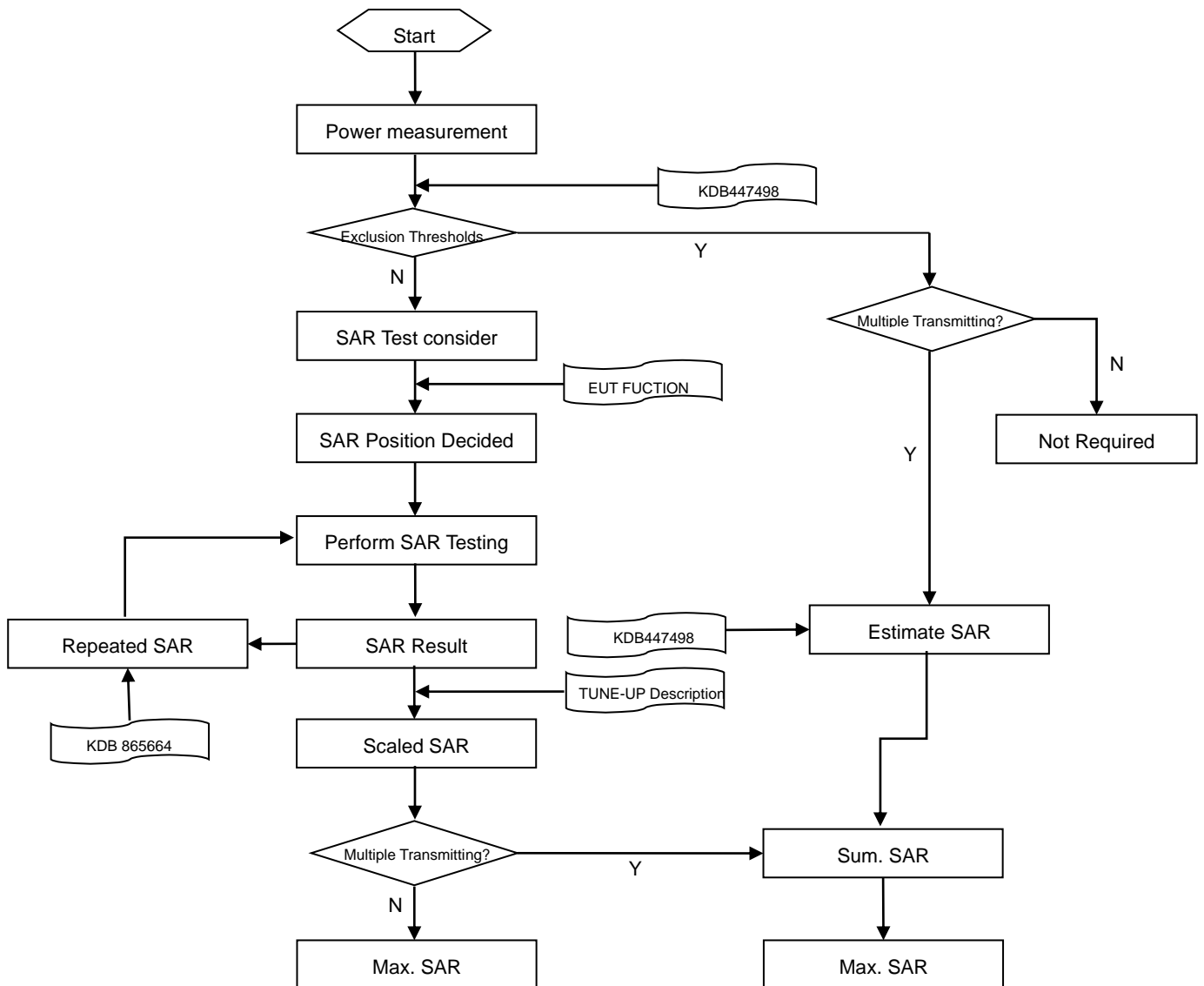
### 6.4 Product Specific 10g Exposure Consideration

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  $\leq 25$  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. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1 g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEEE Std 1528-2013.

			≤3GHz	>3GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			5±1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location			30°±1°	20°±1°
Maximum area scan spatial resolution: $\Delta x_{Area}$ , $\Delta y_{Area}$			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3–4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
			When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: $\Delta x_{Zoom}$ , $\Delta y_{Zoom}$			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3–4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}$ (n)		≤ 5 mm	3–4 GHz: ≤ 4 mm
				4–5 GHz: ≤ 3 mm
				5–6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{Zoom}$ (1): between 1st two points closest to phantom surface		≤ 4 mm
		4–5 GHz: ≤ 2.5 mm		
		5–6 GHz: ≤ 2 mm		
		$\Delta z_{Zoom}$ (n>1): between subsequent points	≤ 1.5· $\Delta z_{Zoom}$ (n-1)	
Minimum zoom scan volume	x, y, z		≥30 mm	3–4 GHz: ≥ 28 mm
				4–5 GHz: ≥ 25 mm
				5–6 GHz: ≥ 22 mm
<b>Note:</b> <ol style="list-style-type: none"> <li><math>\delta</math> is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.</li> <li>* 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.</li> </ol>				

### 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 to 16 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-SZ2410652-AP Power List.pdf".

### **8.2 WCDMA**

Please refer the document "BL-SZ2410652-AP Power List.pdf".

### **8.3 LTE**

Please refer the document "BL-SZ2410652-AP Power List.pdf".

## 8.4 WIFI

### 8.4.1 2.4G WIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	AV power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	16.19	16.50	Yes
		6	2437	16.41	16.50	Yes
		11	2462	16.12	16.50	Yes
	802.11g	1	2412	14.70	15.50	NO
		6	2437	15.30	15.50	NO
		11	2462	15.39	15.50	NO
	802.11n(HT20)	1	2412	10.98	12.00	NO
		6	2437	13.98	15.50	NO
		11	2462	14.45	15.50	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  $\leq 1.2$  W/kg, OFDM SAR test is not required.

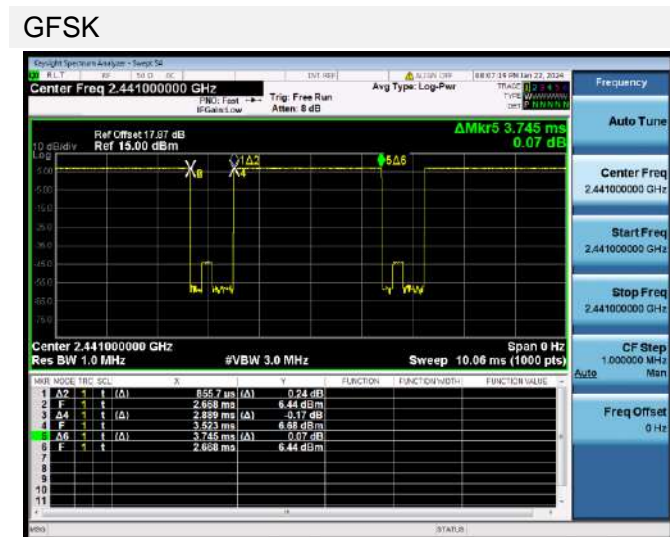
### 8.5 Bluetooth

Mode	GFSK			π/4-DQPSK		
Channel	0	39	78	0	39	78
Frequency (MHz)	2402	2441	2480	2402	2441	2480
AV power(dBm)	7.59	8.00	<b>8.06</b>	4.63	4.71	4.87
Tune-Up Limit (dBm)	9.00	9.00	9.00	6.00	6.00	6.00
SAR Test Require	NO	NO	Yes	NO	NO	NO
Mode	8-DPSK			BLE-1Mbps		
Channel	0	39	78	0	19	39
Frequency (MHz)	2402	2441	2480	2402	2440	2480
AV power(dBm)	4.59	4.62	4.82	1.24	0.80	0.62
Tune-Up Limit (dBm)	6.00	6.00	6.00	3.00	3.00	3.00
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  $\leq 4$  dB higher than the primary mode.

Note: The Bluetooth duty cycle is 77.14 % 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



## 8.6 Power Reduction List

1. This mobile phone device supports the receiver detection mechanism .This device uses the receiver to indicate whether the user is making a call in head.
2. When device is making call in head, and the receiver will work, the power reduction will applied for SAR compliance.
3. When there is a voice call (including VOIP), the audio is actively routed through the headset or speaker, and the receiver will not work, which indicating the body/Limbs exposure conditions will trigger the body/Limbs exposure reduced the power.
4. When this device used data mode only, and the receiver will not work too, the reduced the power are same as body/Limbs exposure.
- 5.The device employs proximity sensors that detect the presence of the user's body/Limbs of the device. When these conditions are detected, Body/Limbs reduced power will be active.
- 6.When the proximity sensor fails, the power is reduced to the corresponding DSI4 scenario.

**WWAN Reduced power level table**

Reduced level	Sensor state	Receiver state	Antenna	Position
DSI1	N/A	On (head scenario)	Ant.1	Head
			Ant.0	
DSI2	Off (Sensor1) +Off (Sensor2)	Off (Body scenario)	Ant.1	Front Side;Back Side: Left Edge;RightEdge;TopEdge;Bottom Edge
			Ant.0	
DSI3	On (Sensor1) +Off (Sensor2)	Off (Body scenario)	Ant.1	Bottom Edge
			Ant.0	
DSI4	N/A (Sensor1) +On (Sensor2)	Off (Body scenario)	Ant.1	Front Side;BackSide;LeftEdge;Top Edge
			Ant.0	

**Note:**

1. The WWAN 2G/3G/4G up antenna includes antenna 1;The WWAN 2G/3G/4G down antenna includes antenna 0.



Mode	Antenna	WWAN Antenna								
		Full Power	Receiver on			Receiver off				
			Head			Body-worn&Hotspot&Specific				
			/			Sensor off		Sensor on		
			Standalone	Simultaneous transmission		Standalone	Simultaneous transmission		Standalone	Simultaneous transmission
				+2.4GWLAN/BT			+2.4GWLAN/BT			+2.4GWLAN/BT
Off	DSI1	DSI1	DSI2	DSI2	DSI3/4	DSI3/4				
GSM 850	Ant.1	33.50	31.50	31.50	33.50	33.50	33.50	33.50		
GPRS850 1 Tx Slot	Ant.1	33.50	31.50	31.50	33.50	33.50	33.50	33.50		
GPRS850 2 Tx Slots	Ant.1	30.00	28.00	28.00	30.00	30.00	30.00	30.00		
GPRS850 3 Tx Slots	Ant.1	28.50	26.50	26.50	28.50	28.50	28.50	28.50		
GPRS850 4 Tx Slots	Ant.1	27.50	25.50	25.50	27.50	27.50	27.50	27.50		
EGPRS850 1 Tx Slot	Ant.1	28.00	28.00	28.00	28.00	28.00	28.00	28.00		
EGPRS850 2 Tx Slots	Ant.1	25.00	25.00	25.00	25.00	25.00	25.00	25.00		
EGPRS850 3 Tx Slots	Ant.1	23.20	23.20	23.20	23.20	23.20	23.20	23.20		
EGPRS850 4 Tx Slots	Ant.1	22.00	22.00	22.00	22.00	22.00	22.00	22.00		
GSM 850	Ant.0	33.50	33.50	33.50	33.50	33.50	33.50	33.50		
GPRS850 1 Tx Slot	Ant.0	33.50	33.50	33.50	33.50	33.50	33.50	33.50		
GPRS850 2 Tx Slots	Ant.0	30.00	30.00	30.00	30.00	30.00	30.00	30.00		
GPRS850 3 Tx Slots	Ant.0	28.50	28.50	28.50	28.50	28.50	28.50	28.50		
GPRS850 4 Tx Slots	Ant.0	27.50	27.50	27.50	27.50	27.50	27.50	27.50		
EGPRS850 1 Tx Slot	Ant.0	28.00	28.00	28.00	28.00	28.00	28.00	28.00		
EGPRS850 2 Tx Slots	Ant.0	25.00	25.00	25.00	25.00	25.00	25.00	25.00		
EGPRS850 3 Tx Slots	Ant.0	23.20	23.20	23.20	23.20	23.20	23.20	23.20		
EGPRS850 4 Tx Slots	Ant.0	22.00	22.00	22.00	22.00	22.00	22.00	22.00		
GSM 1900	Ant.1	30.50	29.00	29.00	30.50	30.50	28.50	28.50		
GPRS1900 1 Tx Slot	Ant.1	30.50	29.00	29.00	30.50	30.50	28.50	28.50		
GPRS1900 2 Tx Slots	Ant.1	26.70	25.20	25.20	26.70	26.70	23.70	23.70		
GPRS1900 3 Tx Slots	Ant.1	25.00	23.50	23.50	25.00	25.00	22.00	22.00		
GPRS1900 4 Tx Slots	Ant.1	24.00	22.50	22.50	24.00	24.00	21.00	21.00		
EGPRS1900 1 Tx Slot	Ant.1	27.00	27.00	27.00	27.00	27.00	27.00	27.00		
EGPRS1900 2 Tx Slots	Ant.1	24.00	24.00	24.00	24.00	24.00	23.00	23.00		
EGPRS1900 3 Tx Slots	Ant.1	22.20	22.20	22.20	22.20	22.20	21.20	21.20		
EGPRS1900 4 Tx Slots	Ant.1	21.00	21.00	21.00	21.00	21.00	20.50	20.50		
GSM 1900	Ant.0	30.50	30.50	30.50	30.50	30.50	28.50	28.50		
GPRS1900 1 Tx Slot	Ant.0	30.50	30.50	30.50	30.50	30.50	28.50	28.50		
GPRS1900 2 Tx Slots	Ant.0	26.70	26.70	26.70	26.70	26.70	23.70	23.70		
GPRS1900 3 Tx Slots	Ant.0	25.00	25.00	25.00	25.00	25.00	22.00	22.00		
GPRS1900 4 Tx Slots	Ant.0	24.00	24.00	24.00	24.00	24.00	21.00	21.00		
EGPRS1900 1 Tx Slot	Ant.0	27.00	27.00	27.00	27.00	27.00	27.00	27.00		
EGPRS1900 2 Tx Slots	Ant.0	24.00	24.00	24.00	24.00	24.00	23.00	23.00		

EGPRS1900 3 Tx Slots	Ant.0	22.20	22.20	22.20	22.20	22.20	21.20	21.20
EGPRS1900 4 Tx Slots	Ant.0	21.00	21.00	21.00	21.00	21.00	20.50	20.50
WCDMA Band2 RMC	Ant.1	25.50	19.50	19.50	25.50	25.50	22.50	22.50
WCDMA Band2 AMR	Ant.1	25.50	19.50	19.50	25.50	25.50	22.50	22.50
HSDPA Subtest-1	Ant.1	24.00	18.00	18.00	24.00	24.00	21.00	21.00
HSDPA Subtest-2	Ant.1	24.00	18.00	18.00	24.00	24.00	21.00	21.00
HSDPA Subtest-3	Ant.1	24.00	18.00	18.00	24.00	24.00	21.00	21.00
HSDPA Subtest-4	Ant.1	24.00	18.00	18.00	24.00	24.00	21.00	21.00
DC-HSDPA Subtest-1	Ant.1	23.00	17.00	17.00	23.00	23.00	20.00	20.00
DC-HSDPA Subtest-2	Ant.1	23.00	17.00	17.00	23.00	23.00	20.00	20.00
DC-HSDPA Subtest-3	Ant.1	23.00	17.00	17.00	23.00	23.00	20.00	20.00
DC-HSDPA Subtest-4	Ant.1	23.00	17.00	17.00	23.00	23.00	20.00	20.00
HSUPA Subtest-1	Ant.1	23.00	17.00	17.00	23.00	23.00	20.00	20.00
HSUPA Subtest-2	Ant.1	24.00	18.00	18.00	24.00	24.00	21.00	21.00
HSUPA Subtest-3	Ant.1	24.00	18.00	18.00	24.00	24.00	21.00	21.00
HSUPA Subtest-4	Ant.1	24.00	18.00	18.00	24.00	24.00	21.00	21.00
HSUPA Subtest-5	Ant.1	24.00	18.00	18.00	24.00	24.00	21.00	21.00
WCDMA Band2 RMC	Ant.0	25.50	25.50	25.50	25.50	25.50	21.50	21.50
WCDMA Band2 AMR	Ant.0	25.50	25.50	25.50	25.50	25.50	21.50	21.50
HSDPA Subtest-1	Ant.0	24.00	24.00	24.00	24.00	24.00	20.00	20.00
HSDPA Subtest-2	Ant.0	24.00	24.00	24.00	24.00	24.00	20.00	20.00
HSDPA Subtest-3	Ant.0	24.00	24.00	24.00	24.00	24.00	20.00	20.00
HSDPA Subtest-4	Ant.0	24.00	24.00	24.00	24.00	24.00	20.00	20.00
DC-HSDPA Subtest-1	Ant.0	23.00	23.00	23.00	23.00	23.00	19.00	19.00
DC-HSDPA Subtest-2	Ant.0	23.00	23.00	23.00	23.00	23.00	19.00	19.00
DC-HSDPA Subtest-3	Ant.0	23.00	23.00	23.00	23.00	23.00	19.00	19.00
DC-HSDPA Subtest-4	Ant.0	23.00	23.00	23.00	23.00	23.00	19.00	19.00
HSUPA Subtest-1	Ant.0	23.00	23.00	23.00	23.00	23.00	19.00	19.00
HSUPA Subtest-2	Ant.0	24.00	24.00	24.00	24.00	24.00	20.00	20.00
HSUPA Subtest-3	Ant.0	24.00	24.00	24.00	24.00	24.00	20.00	20.00
HSUPA Subtest-4	Ant.0	24.00	24.00	24.00	24.00	24.00	20.00	20.00
HSUPA Subtest-5	Ant.0	24.00	24.00	24.00	24.00	24.00	20.00	20.00
WCDMA Band4 RMC	Ant.1	25.50	20.50	20.50	25.50	25.50	22.50	22.50
WCDMA Band4 AMR	Ant.1	25.50	20.50	20.50	25.50	25.50	22.50	22.50
HSDPA Subtest-1	Ant.1	24.00	19.00	19.00	24.00	24.00	21.00	21.00
HSDPA Subtest-2	Ant.1	24.00	19.00	19.00	24.00	24.00	21.00	21.00
HSDPA Subtest-3	Ant.1	24.00	19.00	19.00	24.00	24.00	21.00	21.00
HSDPA Subtest-4	Ant.1	24.00	19.00	19.00	24.00	24.00	21.00	21.00
DC-HSDPA Subtest-1	Ant.1	23.00	18.00	18.00	23.00	23.00	20.00	20.00
DC-HSDPA Subtest-2	Ant.1	23.00	18.00	18.00	23.00	23.00	20.00	20.00
DC-HSDPA Subtest-3	Ant.1	23.00	18.00	18.00	23.00	23.00	20.00	20.00
DC-HSDPA Subtest-4	Ant.1	23.00	18.00	18.00	23.00	23.00	20.00	20.00
HSUPA Subtest-1	Ant.1	23.00	18.00	18.00	23.00	23.00	20.00	20.00

HSUPA Subtest-2	Ant.1	24.00	19.00	19.00	24.00	24.00	21.00	21.00
HSUPA Subtest-3	Ant.1	24.00	19.00	19.00	24.00	24.00	21.00	21.00
HSUPA Subtest-4	Ant.1	24.00	19.00	19.00	24.00	24.00	21.00	21.00
HSUPA Subtest-5	Ant.1	24.00	19.00	19.00	24.00	24.00	21.00	21.00
WCDMA Band4 RMC	Ant.0	25.50	25.50	25.50	25.50	25.50	21.50	21.50
WCDMA Band4 AMR	Ant.0	25.50	25.50	25.50	25.50	25.50	21.50	21.50
HSDPA Subtest-1	Ant.0	24.00	24.00	24.00	24.00	24.00	20.00	20.00
HSDPA Subtest-2	Ant.0	24.00	24.00	24.00	24.00	24.00	20.00	20.00
HSDPA Subtest-3	Ant.0	24.00	24.00	24.00	24.00	24.00	20.00	20.00
HSDPA Subtest-4	Ant.0	24.00	24.00	24.00	24.00	24.00	20.00	20.00
DC-HSDPA Subtest-1	Ant.0	23.00	23.00	23.00	23.00	23.00	19.00	19.00
DC-HSDPA Subtest-2	Ant.0	23.00	23.00	23.00	23.00	23.00	19.00	19.00
DC-HSDPA Subtest-3	Ant.0	23.00	23.00	23.00	23.00	23.00	19.00	19.00
DC-HSDPA Subtest-4	Ant.0	23.00	23.00	23.00	23.00	23.00	19.00	19.00
HSUPA Subtest-1	Ant.0	23.00	23.00	23.00	23.00	23.00	19.00	19.00
HSUPA Subtest-2	Ant.0	24.00	24.00	24.00	24.00	24.00	20.00	20.00
HSUPA Subtest-3	Ant.0	24.00	24.00	24.00	24.00	24.00	20.00	20.00
HSUPA Subtest-4	Ant.0	24.00	24.00	24.00	24.00	24.00	20.00	20.00
HSUPA Subtest-5	Ant.0	24.00	24.00	24.00	24.00	24.00	20.00	20.00
WCDMA Band5 RMC	Ant.1	25.50	23.00	23.00	25.50	25.50	25.50	25.50
WCDMA Band5 AMR	Ant.1	25.50	23.00	23.00	25.50	25.50	25.50	25.50
HSDPA Subtest-1	Ant.1	24.00	21.50	21.50	24.00	24.00	24.00	24.00
HSDPA Subtest-2	Ant.1	24.00	21.50	21.50	24.00	24.00	24.00	24.00
HSDPA Subtest-3	Ant.1	24.00	21.50	21.50	24.00	24.00	24.00	24.00
HSDPA Subtest-4	Ant.1	24.00	21.50	21.50	24.00	24.00	24.00	24.00
DC-HSDPA Subtest-1	Ant.1	23.00	20.50	20.50	23.00	23.00	23.00	23.00
DC-HSDPA Subtest-2	Ant.1	23.00	20.50	20.50	23.00	23.00	23.00	23.00
DC-HSDPA Subtest-3	Ant.1	23.00	20.50	20.50	23.00	23.00	23.00	23.00
DC-HSDPA Subtest-4	Ant.1	23.00	20.50	20.50	23.00	23.00	23.00	23.00
HSUPA Subtest-1	Ant.1	23.00	20.50	20.50	23.00	23.00	23.00	23.00
HSUPA Subtest-2	Ant.1	24.00	21.50	21.50	24.00	24.00	24.00	24.00
HSUPA Subtest-3	Ant.1	24.00	21.50	21.50	24.00	24.00	24.00	24.00
HSUPA Subtest-4	Ant.1	24.00	21.50	21.50	24.00	24.00	24.00	24.00
HSUPA Subtest-5	Ant.1	24.00	21.50	21.50	24.00	24.00	24.00	24.00
WCDMA Band5 RMC	Ant.0	25.50	25.50	25.50	25.50	25.50	25.50	25.50
WCDMA Band5 AMR	Ant.0	25.50	25.50	25.50	25.50	25.50	25.50	25.50
HSDPA Subtest-1	Ant.0	24.00	24.00	24.00	24.00	24.00	24.00	24.00
HSDPA Subtest-2	Ant.0	24.00	24.00	24.00	24.00	24.00	24.00	24.00
HSDPA Subtest-3	Ant.0	24.00	24.00	24.00	24.00	24.00	24.00	24.00
HSDPA Subtest-4	Ant.0	24.00	24.00	24.00	24.00	24.00	24.00	24.00
DC-HSDPA Subtest-1	Ant.0	23.00	23.00	23.00	23.00	23.00	23.00	23.00
DC-HSDPA Subtest-2	Ant.0	23.00	23.00	23.00	23.00	23.00	23.00	23.00
DC-HSDPA Subtest-3	Ant.0	23.00	23.00	23.00	23.00	23.00	23.00	23.00

DC-HSDPA Subtest-4	Ant.0	23.00	23.00	23.00	23.00	23.00	23.00	23.00
HSUPA Subtest-1	Ant.0	23.00	23.00	23.00	23.00	23.00	23.00	23.00
HSUPA Subtest-2	Ant.0	24.00	24.00	24.00	24.00	24.00	24.00	24.00
HSUPA Subtest-3	Ant.0	24.00	24.00	24.00	24.00	24.00	24.00	24.00
HSUPA Subtest-4	Ant.0	24.00	24.00	24.00	24.00	24.00	24.00	24.00
HSUPA Subtest-5	Ant.0	24.00	24.00	24.00	24.00	24.00	24.00	24.00
LTE Band2	Ant.1	25.50	19.50	19.50	25.50	25.50	22.50	22.50
LTE Band2	Ant.0	25.50	25.50	25.50	25.50	25.50	21.50	21.50
LTE Band4	Ant.1	25.50	20.50	20.50	25.50	25.50	24.00	24.00
LTE Band4	Ant.0	25.50	25.50	25.50	25.50	25.50	21.50	21.50
LTE Band5	Ant.1	25.50	23.50	23.50	25.50	25.50	25.50	25.50
LTE Band5	Ant.0	25.50	25.50	25.50	25.50	25.50	25.50	25.50
LTE Band7	Ant.1	25.00	15.50	15.50	24.00	24.00	18.00	18.00
LTE Band7	Ant.0	25.00	25.00	25.00	25.00	25.00	21.50	21.50
LTE Band13	Ant.1	25.50	24.00	24.00	25.50	25.50	25.50	25.50
LTE Band13	Ant.0	25.50	25.50	25.50	25.50	25.50	25.50	25.50
LTE Band26	Ant.1	25.50	23.00	23.00	25.50	25.50	25.50	25.50
LTE Band26	Ant.0	25.50	25.50	25.50	25.50	25.50	25.50	25.50
LTE Band66	Ant.1	25.50	20.00	20.00	25.50	25.50	24.00	24.00
LTE Band66	Ant.0	25.50	25.50	25.50	25.50	25.50	21.50	21.50
LTE Band38	Ant.1	25.00	18.00	18.00	25.00	25.00	20.00	20.00
LTE Band38	Ant.0	25.00	25.00	25.00	25.00	25.00	24.00	24.00
LTE Band41	Ant.1	25.00	18.50	18.50	25.00	25.00	20.50	20.50
LTE Band41	Ant.0	25.00	25.00	25.00	25.00	25.00	24.00	24.00

**WLAN Reduced power level table**

Reduced level	Receiver state	Transmitting	Antenna	Position
		conditions		
Level 1	On (head scenario)	2.4G WIFI / 2.4G WIFI+WWAN	Ant.2	Head
Level 2	Off (Body scenario)	2.4G WIFI / 2.4G WIFI+WWAN	Ant.2	Front Side;Back Side; Left Edge;RightEdge;TopEdge;Bottom Edge

Note:  
1. The WLAN/BT antenna includes antenna 2.

Mode	WIFI2.4G&BT Ant.2				
	Full Power	Receiver on		Receiver off	
		Head		Body-worn&Hotspot&Specific	
		Standalone	Simultaneous transmission	Standalone	Simultaneous transmission
	Off	Level1	Level1	Level2	Level2
2.4G WLAN 802.11b	16.50	16.50	16.50	16.50	16.50
2.4G WLAN 802.11g	15.50	15.50	15.50	15.50	15.50
2.4G WLAN 802.11n20	15.50	15.50	15.50	15.50	15.50
Bluetooth	9.00	9.00	9.00	9.00	9.00

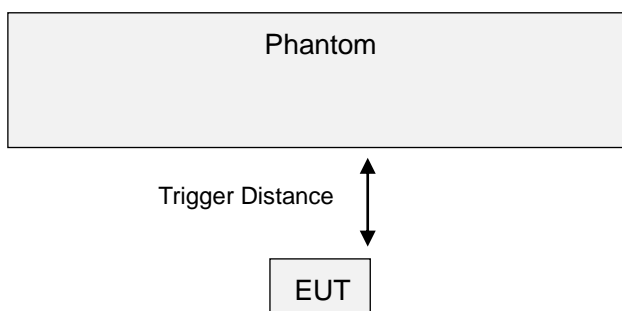
## 9 PROXIMITY SENSOR TRIGGERING TEST

### 9.1 Procedures for determining proximity sensor distance

The device uses one proximity sensors to reduce the maximum output power in selected wireless mode and operating configurations to ensure SAR compliance. The sensor implementation can identify and facilitate triggering different max power levels for different scenarios including the device held by hand(Extremity) and different exposure test positions test positions when the device is closed to a user’s body.

Proximity sensor triggering distance testing was performed, EUT moving further away from the phantom and EUT moving toward the phantom were both assessed, and the shortest triggering distances were reported and used for SAR assessment. Note that while sensor is failed and it sets the output power to the lowest one in the sensor trigger state, to make sure the SAR requirements can still be satisfied.

#### 9.1.1 proximity sensor\_1

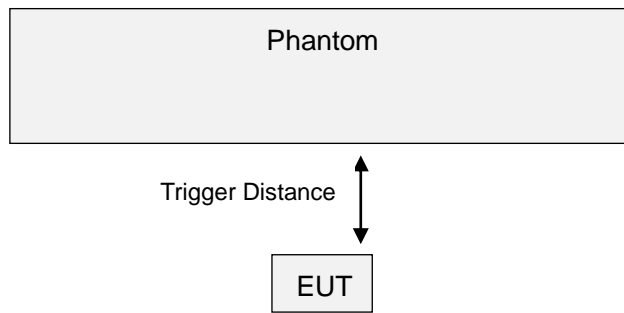


EUT moving toward Phantom

Distance in mm	1~5	6	7	8	9~10	11	12~15	16	17	18	19	20~23
Front Side	On	On	On	On	Off	Off	Off	Off	Off	Off	Off	Off
Back Side	On	On	On	On	On	On	On	On	Off	Off	Off	Off
Bottom Edge	On	On	On	On	On	On	On	On	On	On	Off	Off

Note: Powerreduction is only applicable for ANT0.

9.1.2 proximity sensor\_2



EUT moving toward Phantom

Distance in mm	1~5	6	7	8	9~10	11	12~15	16	17	18	19	20~23
Front Side	On	On	On	On	On	On	Off	Off	Off	Off	Off	Off
Back Side	On	On	On	On	On	On	On	On	On	On	Off	Off
Left Edge	On	On	On	On	Off	Off	Off	Off	Off	Off	Off	Off
Top Edge	On	On	On	On	On	On	On	On	On	On	On	Off

Note: Powerreduction is only applicable for ANT1.

To ensure all production units are compliant, it is generally necessary to reduce the triggering distance determined from the triggering tests by 1 mm, or more if it is necessary, and use the smallest distance for EUT moving toward the phantom, minus 1 mm, as the sensor triggering distance for determining the SAR measurement distance.

ANT0 of proximity sensor\_1

EUT Sides	Additional SAR test Distance in mm
Front Side	7
Back Side	15
Bottom Edge	17

ANT1 of proximity sensor\_2

EUT Sides	Additional SAR test Distance in mm
Front Side	10
Back Side	17
Left Edge	7
Top Edge	18



## 9.2 Procedures for determining EUT tilt angle influences to proximity sensor triggering

The influence of EUT tilt angles to proximity sensor\_1 triggering was determined by positioning each EUT edge that contains a transmitting antenna 0, perpendicular to the flat phantom, at 18 mm separation for the bottom edge.

The influence of EUT tilt angles to proximity sensor\_2 triggering was determined by positioning each EUT edge that contains transmitting antenna 1, perpendicular to the flat phantom, at 8 mm separation for the left edge and 19 mm separation for the top edge.

Rotating the EUT around the edge next to the phantom in  $\leq 10^\circ$  increments until the EUT is  $\pm 45^\circ$  from the vertical position at  $0^\circ$ , and the maximum output power remains in the reduced mode.

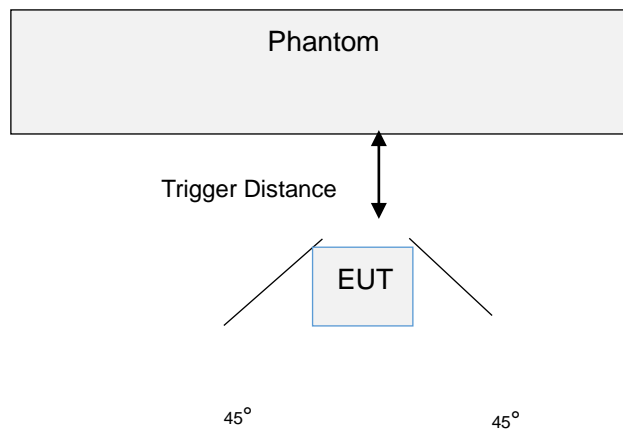


Table: Summary of Phone Tilt Angle Influence to Proximity Sensor Triggering(Left/Top/Bottom edge)

Antenna	Position	Minimum trigger distance at which power reduction was maintained over $\pm 45^\circ$	Power Reduction Status											
			-45°	-35°	-25°	-15°	-5°	0°	5°	15°	25°	35°	45°	
ANT1	Left Edge	8mm	on	on	on	on	on	on	on	on	on	on	on	on
ANT1	Top Edge	19mm	on	on	on	on	on	on	on	on	on	on	on	on
ANT0	Bottom Edge	18mm	on	on	on	on	on	on	on	on	on	on	on	on

## 10 TEST EXCLUSION CONSIDERATION

Please refer the document “BL-SZ2410652-AIEUT internal photo.pdf”.

Antenna	Front Side(mm)	Back Side(mm)	Left Edge(mm)	Right Edge(mm)	Top Edge(mm)	Bottom Edge(mm)
Ant.0	<25	<25	<25	<25	>25	<25
Ant.1	<25	<25	>25	<25	<25	>25
Ant.2	<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.

# 11 TEST RESULT

## 11.1 GSM 850

Antenna	Power Reduction	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	1 g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>													
Ant.1	DSI1	DATA 4slots	Left Cheek	0	190	836.6	0.03	0.433	24.83	25.50	1.167	0.505	/
	DSI1		Left Tilt	0	190	836.6	0.11	0.380	24.83	25.50	1.167	0.443	/
	DSI1		Right Cheek	0	190	836.6	0.04	0.552	24.83	25.50	1.167	0.644	/
	DSI1		Right Tilt	0	190	836.6	0.12	0.465	24.83	25.50	1.167	0.543	/
	DSI1		Right Cheek	0	128	824.2	0.06	0.506	24.80	25.50	1.175	0.595	/
	DSI1		Right Cheek	0	251	848.8	-0.02	0.576	24.60	25.50	1.230	<b>0.708</b>	1#
Ant.0	DSI1	DATA 4slots	Left Cheek	0	190	836.6	0.15	0.174	26.84	27.50	1.164	0.203	/
	DSI1		Left Tilt	0	190	836.6	-0.13	0.090	26.84	27.50	1.164	0.105	/
	DSI1		Right Cheek	0	190	836.6	0.15	0.181	26.84	27.50	1.164	0.211	/
	DSI1		Right Tilt	0	190	836.6	0.01	0.091	26.84	27.50	1.164	0.106	/
<b>Body-worn&amp;Hotspot</b>													
Ant.1	DSI4	DATA 4slots	Front Side	10	190	836.6	0.17	0.110	26.69	27.50	1.205	0.133	/
	DSI4		Back Side	10	190	836.6	-0.09	0.180	26.69	27.50	1.205	0.217	/
	DSI2		Left Edge	10	190	836.6	-0.07	0.053	26.69	27.50	1.205	0.064	/
	DSI4		Top Edge	10	190	836.6	-0.04	0.137	26.69	27.50	1.205	0.165	/
Ant.0	DSI2	DATA 4slots	Front Side	10	190	836.6	-0.08	0.204	26.22	27.50	1.343	0.274	/
	DSI4		Back Side	10	190	836.6	0.00	0.437	26.22	27.50	1.343	<b>0.587</b>	2#
	DSI2		Right Edge	10	190	836.6	0.09	0.069	26.22	27.50	1.343	0.093	/
	DSI2		Left Edge	10	190	836.6	0.16	0.023	26.22	27.50	1.343	0.031	/
	DSI3		Bottom Edge	10	190	836.6	-0.14	0.285	26.22	27.50	1.343	0.383	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

### 11.2 GSM 1900

Antenna	Power Reduction	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	1 g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>													
Ant.1	DSI1	DATA 1slots	Left Cheek	0	661	1880	0.09	0.304	28.18	29.00	1.208	0.367	/
	DSI1		Left Tilt	0	661	1880	0.12	0.329	28.18	29.00	1.208	0.397	/
	DSI1		Right Cheek	0	661	1880	0.11	0.526	28.18	29.00	1.208	0.635	/
	DSI1		Right Tilt	0	661	1880	-0.01	0.529	28.18	29.00	1.208	0.639	/
	DSI1		Right Tilt	0	512	1850.2	0.06	0.572	28.15	29.00	1.216	<b>0.696</b>	3#
	DSI1		Right Tilt	0	810	1909.8	-0.18	0.532	28.03	29.00	1.250	0.665	/
Ant.0	DSI1	DATA 1slots	Left Cheek	0	661	1880	0.15	0.081	29.66	30.50	1.213	0.098	/
	DSI1		Left Tilt	0	661	1880	0.10	0.073	29.66	30.50	1.213	0.089	/
	DSI1		Right Cheek	0	661	1880	-0.07	0.088	29.66	30.50	1.213	0.107	/
	DSI1		Right Tilt	0	661	1880	0.03	0.062	29.66	30.50	1.213	0.075	/
<b>Body-worn&amp;Hotspot</b>													
Ant.1	DSI4	DATA 1slots	Front Side	10	661	1880	-0.18	0.112	27.56	28.50	1.242	0.139	/
	DSI4		Back Side	10	661	1880	-0.06	0.172	27.56	28.50	1.242	0.214	/
	DSI2		Left Edge	10	661	1880	0.16	0.050	27.56	28.50	1.242	0.062	/
	DSI4		Top Edge	10	661	1880	-0.08	0.234	27.56	28.50	1.242	0.291	/
	DSI4		Top Edge	10	512	1850.2	0.00	0.232	27.55	28.50	1.245	0.289	/
	DSI4		Top Edge	10	810	1909.8	-0.03	0.259	27.51	28.50	1.256	0.325	/
Ant.0	DSI2	DATA 1slots	Front Side	10	661	1880	-0.13	0.119	29.66	30.50	1.213	0.144	/
	DSI4		Back Side	10	661	1880	0.08	0.196	27.77	28.50	1.183	0.232	/
	DSI2		Right Edge	10	661	1880	-0.09	0.074	29.66	30.50	1.213	0.090	/
	DSI2		Left Edge	10	661	1880	-0.12	0.100	29.66	30.50	1.213	0.121	/
	DSI3		Bottom Edge	10	661	1880	0.04	0.227	27.77	28.50	1.183	0.269	/
	DSI3		Bottom Edge	10	512	1850.2	0.00	0.325	27.27	28.50	1.327	<b>0.431</b>	4#
	DSI3		Bottom Edge	10	810	1909.8	0.04	0.167	27.62	28.50	1.225	0.205	/
<b>Sensor N-1</b>													
Ant.0	DSI2	DATA 1slots	Back Side	15	661	1880	-0.15	0.172	29.66	30.50	1.213	0.209	/
	DSI2		Bottom Edge	17	661	1880	-0.15	0.241	29.66	30.50	1.213	<b>0.292</b>	/

Note: Refer to ANNEX C for the detailed test data for each test configuration.

### 11.3WCDMA Band 2

Antenna	Power Reduction	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	1 g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>													
Ant.1	DSI1	RMC	Left Cheek	0	9400	1880	0.06	0.254	18.51	19.50	1.256	0.319	/
	DSI1		Left Tilt	0	9400	1880	0.04	0.276	18.51	19.50	1.256	0.347	/
	DSI1		Right Cheek	0	9400	1880	-0.07	0.465	18.51	19.50	1.256	0.584	/
	DSI1		Right Tilt	0	9400	1880	-0.13	0.489	18.51	19.50	1.256	0.614	/
	DSI1		Right Tilt	0	9262	1852.4	0.01	0.541	18.45	19.50	1.274	<b>0.689</b>	5#
	DSI1		Right Tilt	0	9538	1907.6	-0.04	0.458	18.29	19.50	1.321	0.605	/
Ant.0	DSI1	RMC	Left Cheek	0	9400	1880	0.04	0.197	24.35	25.50	1.303	0.257	/
	DSI1		Left Tilt	0	9400	1880	0.03	0.161	24.35	25.50	1.303	0.210	/
	DSI1		Right Cheek	0	9400	1880	-0.08	0.208	24.35	25.50	1.303	0.271	/
	DSI1		Right Tilt	0	9400	1880	-0.11	0.139	24.35	25.50	1.303	0.181	/
<b>Body-worn&amp;Hotspot</b>													
Ant.1	DSI4	RMC	Front Side	10	9400	1880	-0.06	0.431	22.67	23.50	1.211	0.522	/
	DSI4		Back Side	10	9400	1880	0.07	0.239	22.67	23.50	1.211	0.289	/
	DSI2		Left Edge	10	9400	1880	-0.14	0.438	24.87	25.50	1.156	0.506	/
	DSI4		Top Edge	10	9400	1880	0.14	0.461	22.67	23.50	1.211	0.558	/
	DSI4		Top Edge	10	9262	1852.4	-0.17	0.423	22.36	23.50	1.300	0.550	/
	DSI4		Top Edge	10	9538	1907.6	0.01	0.482	22.65	23.50	1.216	<b>0.586</b>	6#
Ant.0	DSI2	RMC	Front Side	10	9400	1880	-0.06	0.337	24.35	25.50	1.303	0.439	/
	DSI4		Back Side	10	9400	1880	0.13	0.207	20.88	21.50	1.153	0.239	/
	DSI2		Right Edge	10	9400	1880	0.05	0.042	24.35	25.50	1.303	0.055	/
	DSI2		Left Edge	10	9400	1880	-0.11	0.172	24.35	25.50	1.303	0.224	/
	DSI3		Bottom Edge	10	9400	1880	0.03	0.250	20.88	21.50	1.153	0.288	/
	DSI3		Bottom Edge	10	9262	1852.4	0.16	0.314	20.75	21.50	1.189	0.373	/
	DSI3		Bottom Edge	10	9538	1907.6	-0.12	0.242	20.85	21.50	1.161	0.281	/
<b>Sensor N-1</b>													
Ant.1	DSI2	RMC	Front Side	10	9400	1880	0.08	0.645	24.87	25.50	1.156	0.746	/
	DSI2		Back Side	17	9400	1880	-0.15	0.355	24.87	25.50	1.156	0.410	/
	DSI2		Top Edge	18	9400	1880	0.07	0.380	24.87	25.50	1.156	0.439	/
Ant.0	DSI2	RMC	Back Side	15	9400	1880	-0.03	0.502	24.35	25.50	1.303	0.654	/
	DSI2		Bottom Edge	17	9400	1880	0.13	0.597	24.35	25.50	1.303	<b>0.778</b>	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

### 11.4WCDMA Band 4

Antenna	Power Reduction	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	1 g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>													
Ant.1	DSI1	RMC	Left Cheek	0	1312	1712.4	0.00	0.395	19.48	20.50	1.265	0.500	/
	DSI1		Left Tilt	0	1312	1712.4	-0.05	0.428	19.48	20.50	1.265	0.541	/
	DSI1		Right Cheek	0	1312	1712.4	-0.17	0.569	19.48	20.50	1.265	0.720	/
	DSI1		Right Tilt	0	1312	1712.4	-0.03	0.572	19.48	20.50	1.265	0.724	/
	DSI1		Right Cheek	0	1412	1732.4	0.13	0.526	19.45	20.50	1.274	0.670	/
	DSI1		Right Cheek	0	1513	1752.6	0.00	0.590	19.35	20.50	1.303	<b>0.769</b>	<b>7#</b>
Ant.0	DSI1	RMC	Left Cheek	0	1312	1712.4	0.01	0.173	23.97	25.50	1.422	0.246	/
	DSI1		Left Tilt	0	1312	1712.4	-0.08	0.126	23.97	25.50	1.422	0.179	/
	DSI1		Right Cheek	0	1312	1712.4	-0.09	0.208	23.97	25.50	1.422	0.296	/
	DSI1		Right Tilt	0	1312	1712.4	0.16	0.120	23.97	25.50	1.422	0.171	/
<b>Body-worn&amp;Hotspot</b>													
Ant.1	DSI4	RMC	Front Side	10	1312	1712.4	-0.06	0.228	21.59	22.50	1.233	0.281	/
	DSI4		Back Side	10	1312	1712.4	0.11	0.374	21.59	22.50	1.233	0.461	/
	DSI2		Left Edge	10	1312	1712.4	0.12	0.259	24.78	25.50	1.180	0.306	/
	DSI4		Top Edge	10	1312	1712.4	0.18	0.438	21.59	22.50	1.233	0.540	/
	DSI4		Top Edge	10	1412	1732.4	-0.06	0.511	21.56	22.50	1.242	0.635	/
	DSI4		Top Edge	10	1513	1752.6	0.10	0.533	21.53	22.50	1.250	0.666	/
Ant.0	DSI2	RMC	Front Side	10	1312	1712.4	-0.01	0.409	20.53	21.50	1.250	0.511	/
	DSI4		Back Side	10	1312	1712.4	-0.08	0.384	20.53	21.50	1.250	0.480	/
	DSI2		Right Edge	10	1312	1712.4	0.15	0.045	23.97	25.50	1.422	0.064	/
	DSI2		Left Edge	10	1312	1712.4	-0.02	0.251	23.97	25.50	1.422	0.357	/
	DSI3		Bottom Edge	10	1312	1712.4	-0.14	0.548	20.53	21.50	1.250	0.685	/
	DSI3		Bottom Edge	10	1412	1732.4	0.01	0.576	20.53	21.50	1.250	<b>0.720</b>	<b>8#</b>
	DSI3		Bottom Edge	10	1513	1752.6	0.01	0.521	20.48	21.50	1.265	0.659	/
<b>Sensor N-1</b>													
Ant.1	DSI2	RMC	Front Side	10	1412	1732.4	0.01	0.467	24.78	25.50	1.180	0.551	/
	DSI2		Back Side	17	1412	1732.4	-0.13	0.230	24.78	25.50	1.180	0.271	/
	DSI2		Top Edge	18	1412	1732.4	0.13	0.257	24.78	25.50	1.180	0.303	/
Ant.0	DSI2	RMC	Back Side	15	1312	1712.4	0.02	0.586	23.97	25.50	1.422	0.833	/
	DSI2		Bottom Edge	17	1312	1712.4	0.15	0.653	23.97	25.50	1.422	0.929	/
	DSI2		Bottom Edge	17	1412	1732.4	0.04	0.631	23.79	25.50	1.483	<b>0.936</b>	/
	DSI2		Bottom Edge	17	1513	1752.6	-0.10	0.626	23.92	25.50	1.439	0.901	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	10 g Scaled SAR (W/kg)	Meas. No.
<b>Specific</b>													
Ant.0	DSI4	RMC	Back Side	0	1312	1712.4	0.09	0.811	20.53	21.50	1.250	1.014	/
	DSI4		Bottom Edge	0	1312	1712.4	0.02	1.790	20.53	21.50	1.250	<b>2.238</b>	9#
	DSI4		Bottom Edge	0	1412	1732.4	0.15	1.730	20.53	21.50	1.250	2.163	/
	DSI4		Bottom Edge	0	1513	1752.6	0.02	1.610	20.53	21.50	1.250	2.013	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

### 11.5WCDMA Band 5

Antenna	Power Reduction	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	1 g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>													
Ant.1	DSI1	RMC	Left Cheek	0	4182	836.4	0.17	0.408	22.55	23.00	1.109	0.452	/
	DSI1		Left Tilt	0	4182	836.4	-0.13	0.353	22.55	23.00	1.109	0.391	/
	DSI1		Right Cheek	0	4182	836.4	0.02	0.528	22.55	23.00	1.109	<b>0.586</b>	10#
	DSI1		Right Tilt	0	4182	836.4	0.09	0.452	22.55	23.00	1.109	0.501	/
	DSI1		Right Cheek	0	4132	826.4	-0.18	0.483	22.41	23.00	1.146	0.554	/
	DSI1		Right Cheek	0	4233	846.6	-0.02	0.492	22.27	23.00	1.183	0.582	/
Ant.0	DSI1	RMC	Left Cheek	0	4182	836.4	0.01	0.248	25.17	25.50	1.079	0.268	/
	DSI1		Left Tilt	0	4182	836.4	-0.15	0.130	25.17	25.50	1.079	0.140	/
	DSI1		Right Cheek	0	4182	836.4	0.06	0.291	25.17	25.50	1.079	0.314	/
	DSI1		Right Tilt	0	4182	836.4	0.00	0.140	25.17	25.50	1.079	0.151	/
<b>Body-worn&amp;Hotspot</b>													
Ant.1	DSI4	RMC	Front Side	10	4182	836.4	-0.14	0.193	24.56	25.50	1.242	0.240	/
	DSI4		Back Side	10	4182	836.4	0.02	0.327	24.56	25.50	1.242	0.406	/
	DSI2		Left Edge	10	4182	836.4	0.09	0.097	24.56	25.50	1.242	0.120	/
	DSI4		Top Edge	10	4182	836.4	0.01	0.293	24.56	25.50	1.242	0.364	/
Ant.0	DSI2	RMC	Front Side	10	4182	836.4	0.06	0.241	25.17	25.50	1.079	0.260	/
	DSI4		Back Side	10	4182	836.4	0.00	0.477	25.17	25.50	1.079	<b>0.515</b>	11#
	DSI4		Right Edge	10	4182	836.4	-0.03	0.101	25.17	25.50	1.079	0.109	/
	DSI4		Left Edge	10	4182	836.4	0.15	0.034	25.17	25.50	1.079	0.037	/
	DSI3		Bottom Edge	10	4182	836.4	-0.10	0.352	25.17	25.50	1.079	0.380	/

Note: Refer to ANNEX C for the detailed test data for each test configuration.



### 11.6LTE Band 2(20MHz Bandwidth)

Antenna	Power Reduction	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-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>															
Ant.1	DSI1	QPSK	Left Cheek	0	19100	1900	1	MID	-0.01	0.294	18.71	19.50	1.199	0.353	/
	DSI1		Left Tilt	0	19100	1900	1	MID	0.13	0.341	18.71	19.50	1.199	0.409	/
	DSI1		Right Cheek	0	19100	1900	1	MID	-0.12	0.539	18.71	19.50	1.199	0.646	/
	DSI1		Right Tilt	0	19100	1900	1	MID	-0.01	0.574	18.71	19.50	1.199	<b>0.688</b>	12#
	DSI1		Left Cheek	0	19100	1900	50	LOW	0.13	0.239	18.67	19.50	1.211	0.289	/
	DSI1		Left Tilt	0	19100	1900	50	LOW	-0.16	0.269	18.67	19.50	1.211	0.326	/
	DSI1		Right Cheek	0	19100	1900	50	LOW	0.18	0.442	18.67	19.50	1.211	0.535	/
	DSI1		Right Tilt	0	19100	1900	50	LOW	0.16	0.477	18.67	19.50	1.211	0.578	/
Ant.0	DSI1	QPSK	Left Cheek	0	18900	1880	1	MID	-0.03	0.193	23.76	25.50	1.493	0.288	/
	DSI1		Left Tilt	0	18900	1880	1	MID	0.04	0.158	23.76	25.50	1.493	0.236	/
	DSI1		Right Cheek	0	18900	1880	1	MID	-0.11	0.202	23.76	25.50	1.493	0.302	/
	DSI1		Right Tilt	0	18900	1880	1	MID	0.02	0.132	23.76	25.50	1.493	0.197	/
	DSI1		Left Cheek	0	19100	1900	50	HIGH	0.09	0.143	23.56	24.50	1.242	0.178	/
	DSI1		Left Tilt	0	19100	1900	50	HIGH	0.05	0.128	23.56	24.50	1.242	0.159	/
	DSI1		Right Cheek	0	19100	1900	50	HIGH	-0.04	0.147	23.56	24.50	1.242	0.183	/
	DSI1		Right Tilt	0	19100	1900	50	HIGH	-0.13	0.105	23.56	24.50	1.242	0.130	/
<b>Body-worn&amp;Hotspot</b>															
Ant.1	DSI4	QPSK	Front Side	10	19100	1900	1	LOW	-0.16	0.189	21.85	22.50	1.161	0.219	/
	DSI4		Back Side	10	19100	1900	1	LOW	-0.05	0.322	21.85	22.50	1.161	0.374	/
	DSI2		Left Edge	10	18900	1880	1	LOW	-0.07	0.211	25.05	25.50	1.109	0.234	/
	DSI4		Top Edge	10	19100	1900	1	LOW	-0.16	0.395	21.85	22.50	1.161	<b>0.459</b>	13#
	DSI4		Front Side	10	19100	1900	50	MID	0.08	0.174	21.83	22.50	1.167	0.203	/
	DSI4		Back Side	10	19100	1900	50	MID	-0.03	0.311	21.83	22.50	1.167	0.363	/
	DSI2		Left Edge	10	18700	1880	50	HIGH	-0.11	0.192	23.92	24.50	1.143	0.219	/
	DSI4		Top Edge	10	19100	1900	50	MID	0.11	0.381	21.83	22.50	1.167	0.445	/
Ant.0	DSI4	QPSK	Front Side	10	19100	1900	1	MID	-0.17	0.170	20.75	21.50	1.189	0.202	/
	DSI4		Back Side	10	19100	1900	1	MID	-0.16	0.298	20.75	21.50	1.189	0.354	/
	DSI2		Right Edge	10	18900	1880	1	MID	0.16	0.002	23.76	25.50	1.493	0.003	/
	DSI2		Left Edge	10	18900	1880	1	MID	0.00	0.154	23.76	25.50	1.493	0.230	/
	DSI3		Bottom Edge	10	19100	1900	1	MID	0.16	0.365	20.75	21.50	1.189	0.434	/
	DSI4		Front Side	10	19100	1900	50	MID	-0.08	0.137	20.67	21.50	1.211	0.166	/
	DSI4		Back Side	10	19100	1900	50	MID	0.08	0.253	20.67	21.50	1.211	0.306	/
	DSI2		Right Edge	10	19100	1900	50	HIGH	-0.13	0.005	23.56	24.50	1.242	0.006	/
	DSI2		Left Edge	10	19100	1900	50	HIGH	0.18	0.129	23.56	24.50	1.242	0.160	/
	DSI3		Bottom Edge	10	19100	1900	50	MID	0.04	0.322	20.67	21.50	1.211	0.390	/
<b>Sensor N-1</b>															

Ant.1	DSI2	QPSK	Front Side	10	18900	1880	1	LOW	0.12	0.627	25.05	25.50	1.109	0.695	/
	DSI2		Back Side	17	18900	1880	1	LOW	0.02	0.250	25.05	25.50	1.109	0.277	/
	DSI2		Top Edge	18	18900	1880	1	LOW	0.05	0.308	25.05	25.50	1.109	0.342	/
	DSI2		Front Side	10	19100	1900	50	HIGH	-0.15	0.478	23.92	24.50	1.143	0.546	/
	DSI2		Back Side	17	19100	1900	50	HIGH	-0.01	0.219	23.92	24.50	1.143	0.250	/
	DSI2		Top Edge	18	19100	1900	50	HIGH	-0.16	0.270	23.92	24.50	1.143	0.309	/
Ant.0	DSI2	QPSK	Back Side	15	18900	1880	1	MID	0.06	0.483	23.76	25.50	1.493	0.721	/
	DSI2		Bottom Edge	17	18900	1880	1	MID	0.11	0.521	23.76	25.50	1.493	<b>0.778</b>	/
	DSI2		Back Side	15	18900	1880	1	MID	-0.16	0.366	23.76	25.50	1.493	0.546	/
	DSI2		Bottom Edge	17	18900	1880	1	MID	0.07	0.458	23.76	25.50	1.493	0.684	/
	DSI2		Back Side	15	19100	1900	50	HIGH	0.15	0.462	23.56	24.50	1.242	0.574	/
	DSI2		Bottom Edge	17	19100	1900	50	HIGH	0.06	0.511	23.56	24.50	1.242	0.635	/
	DSI2		Back Side	15	19100	1900	50	HIGH	0.12	0.351	23.56	24.50	1.242	0.436	/
	DSI2		Bottom Edge	17	19100	1900	50	HIGH	0.03	0.426	23.56	24.50	1.242	0.529	/

Note: Refer to ANNEX C for the detailed test data for each test configuration.

### 11.7LTE Band 4(20MHz Bandwidth)

Antenna	Power Reduction	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-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>															
Ant.1	DSI1	QPSK	Left Cheek	0	20175	1732.5	1	MID	0.14	0.351	19.67	20.50	1.211	0.425	/
	DSI1		Left Tilt	0	20175	1732.5	1	MID	-0.05	0.393	19.67	20.50	1.211	0.476	/
	DSI1		Right Cheek	0	20175	1732.5	1	MID	0.01	0.525	19.67	20.50	1.211	<b>0.636</b>	14#
	DSI1		Right Tilt	0	20175	1732.5	1	MID	-0.12	0.496	19.67	20.50	1.211	0.601	/
	DSI1		Left Cheek	0	20175	1732.5	50	LOW	0.14	0.313	19.65	20.50	1.216	0.381	/
	DSI1		Left Tilt	0	20175	1732.5	50	LOW	0.12	0.353	19.65	20.50	1.216	0.429	/
	DSI1		Right Cheek	0	20175	1732.5	50	LOW	-0.01	0.427	19.65	20.50	1.216	0.519	/
	DSI1		Right Tilt	0	20175	1732.5	50	LOW	-0.07	0.446	19.65	20.50	1.216	0.542	/
Ant.0	DSI1	QPSK	Left Cheek	0	20050	1720	1	MID	-0.13	0.174	24.25	25.50	1.334	0.232	/
	DSI1		Left Tilt	0	20050	1720	1	MID	-0.17	0.121	24.25	25.50	1.334	0.161	/
	DSI1		Right Cheek	0	20050	1720	1	MID	-0.05	0.176	24.25	25.50	1.334	0.235	/
	DSI1		Right Tilt	0	20050	1720	1	MID	0.16	0.105	24.25	25.50	1.334	0.140	/
	DSI1		Left Cheek	0	20175	1732.5	50	MID	-0.18	0.126	23.55	24.50	1.245	0.157	/
	DSI1		Left Tilt	0	20175	1732.5	50	MID	-0.17	0.097	23.55	24.50	1.245	0.121	/
	DSI1		Right Cheek	0	20175	1732.5	50	MID	0.14	0.152	23.55	24.50	1.245	0.189	/
	DSI1		Right Tilt	0	20175	1732.5	50	MID	-0.09	0.090	23.55	24.50	1.245	0.112	/
<b>Body-worn&amp;Hotspot</b>															
Ant.1	DSI4	QPSK	Front Side	10	20300	1745	1	MID	0.15	0.253	23.10	24.00	1.230	0.311	/
	DSI4		Back Side	10	20300	1745	1	MID	0.18	0.404	23.10	24.00	1.230	0.497	/
	DSI2		Left Edge	10	20300	1745	1	HIGH	0.18	0.203	25.05	25.50	1.109	0.225	/
	DSI4		Top Edge	10	20300	1745	1	MID	0.01	0.525	23.10	24.00	1.230	<b>0.646</b>	15#
	DSI4		Front Side	10	20300	1745	50	HIGH	0.01	0.196	23.09	24.00	1.233	0.242	/
	DSI4		Back Side	10	20300	1745	50	HIGH	0.11	0.311	23.09	24.00	1.233	0.383	/
	DSI2		Left Edge	10	20300	1745	50	HIGH	-0.01	0.146	23.77	24.50	1.183	0.173	/
	DSI4		Top Edge	10	20300	1745	50	HIGH	0.05	0.364	23.09	24.00	1.233	0.449	/
Ant.0	DSI4	QPSK	Front Side	10	20050	1720	1	MID	0.10	0.164	20.70	21.50	1.202	0.197	/
	DSI4		Back Side	10	20050	1720	1	MID	0.13	0.326	20.70	21.50	1.202	0.392	/
	DSI2		Right Edge	10	20050	1720	1	MID	0.12	0.020	24.25	25.50	1.334	0.027	/
	DSI2		Left Edge	10	20050	1720	1	MID	0.06	0.085	24.25	25.50	1.334	0.113	/
	DSI3		Bottom Edge	10	20050	1720	1	MID	0.13	0.472	20.70	21.50	1.202	0.567	/
	DSI4		Front Side	10	20050	1720	50	LOW	-0.01	0.122	20.74	21.50	1.191	0.145	/
	DSI4		Back Side	10	20050	1720	50	LOW	0.17	0.273	20.74	21.50	1.191	0.325	/

	DSI2		Right Edge	10	20175	1732.5	50	MID	-0.04	0.003	23.55	24.50	1.245	0.004	/
	DSI2		Left Edge	10	20175	1732.5	50	MID	-0.16	0.068	23.55	24.50	1.245	0.085	/
	DSI3		Bottom Edge	10	20050	1720	50	LOW	-0.03	0.409	20.74	21.50	1.191	0.487	/
<b>Sensor N-1</b>															
Ant.1	DSI2	QPSK	Front Side	10	20300	1745	1	HIGH	0.17	0.463	25.05	25.50	1.109	0.513	/
	DSI2		Back Side	17	20300	1745	1	HIGH	0.00	0.212	25.05	25.50	1.109	0.235	/
	DSI2		Top Edge	18	20300	1745	1	HIGH	-0.12	0.291	25.05	25.50	1.109	0.323	/
	DSI2		Front Side	10	20300	1745	50	HIGH	0.14	0.400	23.77	24.50	1.183	0.473	/
	DSI2		Back Side	17	20300	1745	50	HIGH	0.04	0.176	23.77	24.50	1.183	0.208	/
	DSI2		Top Edge	18	20300	1745	50	HIGH	0.02	0.248	23.77	24.50	1.183	0.293	/
Ant.0	DSI2	QPSK	Back Side	15	20175	1732.5	1	Low	0.18	0.531	24.25	25.50	1.334	0.708	/
	DSI2		Bottom Edge	17	20175	1732.5	1	Low	0.15	0.593	24.25	25.50	1.334	<b>0.791</b>	/
	DSI2		Back Side	15	20175	1732.5	50	Low	-0.12	0.443	23.55	24.50	1.245	0.552	/
	DSI2		Bottom Edge	17	20175	1732.5	50	Low	0.16	0.521	23.55	24.50	1.245	0.649	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

### 11.8LTE Band 5 (10MHz Bandwidth)

Antenna	Power Reduction	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-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>															
Ant.1	DSI1	QPSK	Left Cheek	0	20525	836.5	1	Low	-0.13	0.424	22.81	23.50	1.172	0.497	/
	DSI1		Left Tilt	0	20525	836.5	1	Low	0.13	0.381	22.81	23.50	1.172	0.447	/
	DSI1		Right Cheek	0	20525	836.5	1	Low	0.11	0.581	22.81	23.50	1.172	<b>0.681</b>	16#
	DSI1		Right Tilt	0	20525	836.5	1	Low	-0.11	0.447	22.81	23.50	1.172	0.524	/
	DSI1		Left Cheek	0	20525	836.5	25	Low	-0.05	0.343	22.75	23.50	1.189	0.408	/
	DSI1		Left Tilt	0	20525	836.5	25	Low	0.00	0.316	22.75	23.50	1.189	0.376	/
	DSI1		Right Cheek	0	20525	836.5	25	Low	0.02	0.454	22.75	23.50	1.189	0.540	/
	DSI1		Right Tilt	0	20525	836.5	25	Low	0.18	0.379	22.75	23.50	1.189	0.451	/
Ant.0	DSI1	QPSK	Left Cheek	0	20525	836.5	1	Low	-0.03	0.208	25.12	25.50	1.091	0.227	/
	DSI1		Left Tilt	0	20525	836.5	1	Low	0.13	0.112	25.12	25.50	1.091	0.122	/
	DSI1		Right Cheek	0	20525	836.5	1	Low	-0.14	0.250	25.12	25.50	1.091	0.273	/
	DSI1		Right Tilt	0	20525	836.5	1	Low	0.15	0.114	25.12	25.50	1.091	0.124	/
	DSI1		Left Cheek	0	20525	836.5	25	Low	0.08	0.172	23.22	24.50	1.343	0.231	/
	DSI1		Left Tilt	0	20525	836.5	25	Low	-0.16	0.089	23.22	24.50	1.343	0.120	/
	DSI1		Right Cheek	0	20525	836.5	25	Low	0.10	0.204	23.22	24.50	1.343	0.274	/
	DSI1		Right Tilt	0	20525	836.5	25	Low	0.01	0.095	23.22	24.50	1.343	0.128	/
<b>Body-worn&amp;Hotspot</b>															
Ant.1	DSI4	QPSK	Front Side	10	20525	836.5	1	Low	0.04	0.158	24.42	25.50	1.282	0.203	/
	DSI4		Back Side	10	20525	836.5	1	Low	-0.07	0.235	24.42	25.50	1.282	0.301	/
	DSI4		Left Edge	10	20525	836.5	1	Low	-0.16	0.081	24.42	25.50	1.282	0.104	/
	DSI4		Top Edge	10	20525	836.5	1	Low	-0.17	0.219	24.42	25.50	1.282	0.281	/
	DSI4		Front Side	10	20525	836.5	25	Low	0.15	0.132	23.39	24.50	1.291	0.170	/
	DSI4		Back Side	10	20525	836.5	25	Low	0.00	0.195	23.39	24.50	1.291	0.252	/
	DSI4		Left Edge	10	20525	836.5	25	Low	0.18	0.064	23.39	24.50	1.291	0.083	/
	DSI4		Back Side	10	20525	836.5	25	Low	-0.18	0.149	23.39	24.50	1.291	0.192	/
Ant.0	DSI4	QPSK	Front Side	10	20525	836.5	1	Low	-0.07	0.186	25.12	25.50	1.091	0.203	/
	DSI4		Back Side	10	20525	836.5	1	Low	0.04	0.412	25.12	25.50	1.091	<b>0.449</b>	17#
	DSI2		Right Edge	10	20525	836.5	1	Low	-0.06	0.059	25.12	25.50	1.091	0.064	/
	DSI2		Left Edge	10	20525	836.5	1	Low	-0.07	0.010	25.12	25.50	1.091	0.011	/
	DSI3		Bottom Edge	10	20525	836.5	1	Low	-0.09	0.346	25.12	25.50	1.091	0.377	/
	DSI4		Front Side	10	20525	836.5	25	Low	-0.01	0.145	23.22	24.50	1.343	0.195	/
	DSI4		Back Side	10	20525	836.5	25	Low	-0.03	0.292	23.22	24.50	1.343	0.392	/
	DSI2		Right Edge	10	20525	836.5	25	Low	-0.14	0.040	23.22	24.50	1.343	0.054	/
	DSI2		Left Edge	10	20525	836.5	25	Low	0.07	0.020	23.22	24.50	1.343	0.027	/
	DSI3		Bottom	10	20525	836.5	25	Low	-0.07	0.235	23.22	24.50	1.343	0.316	/

			Edge												
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Note: Refer to ANNEX C for the detailed test data for each test configuration.

### 11.9LTE Band 7 (20MHz Bandwidth)

Antenna	Power Reduction	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-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>															
Ant.1	DSI1	QPSK	Left Cheek	0	21100	2535	1	LOW	0.02	0.181	14.72	15.50	1.197	0.217	/
	DSI1		Left Tilt	0	21100	2535	1	LOW	0.04	0.220	14.72	15.50	1.197	0.263	/
	DSI1		Right Cheek	0	21100	2535	1	LOW	0.03	0.437	14.72	15.50	1.197	0.523	/
	DSI1		Right Tilt	0	21100	2535	1	LOW	0.02	0.541	14.72	15.50	1.197	<b>0.648</b>	<b>18#</b>
	DSI1		Left Cheek	0	21100	2535	50	LOW	-0.16	0.154	14.67	15.50	1.211	0.186	/
	DSI1		Left Tilt	0	21100	2535	50	LOW	0.00	0.197	14.67	15.50	1.211	0.239	/
	DSI1		Right Cheek	0	21100	2535	50	LOW	0.03	0.385	14.67	15.50	1.211	0.466	/
	DSI1		Right Tilt	0	21100	2535	50	LOW	0.18	0.463	14.67	15.50	1.211	0.561	/
Ant.0	DSI1	QPSK	Left Cheek	0	21350	2560	1	LOW	-0.13	0.025	23.51	25.00	1.409	0.035	/
	DSI1		Left Tilt	0	21350	2560	1	LOW	0.06	0.011	23.51	25.00	1.409	0.015	/
	DSI1		Right Cheek	0	21350	2560	1	LOW	-0.11	0.038	23.51	25.00	1.409	0.054	/
	DSI1		Right Tilt	0	21350	2560	1	LOW	-0.18	0.022	23.51	25.00	1.409	0.031	/
	DSI1		Left Cheek	0	21350	2560	50	HIGH	-0.12	0.020	22.66	24.00	1.361	0.027	/
	DSI1		Left Tilt	0	21350	2560	50	HIGH	0.09	0.009	22.66	24.00	1.361	0.012	/
	DSI1		Right Cheek	0	21350	2560	50	HIGH	0.15	0.030	22.66	24.00	1.361	0.041	/
	DSI1		Right Tilt	0	21350	2560	50	HIGH	0.04	0.015	22.66	24.00	1.361	0.020	/
<b>Body-worn&amp;Hotspot</b>															
Ant.1	DSI4	QPSK	Front Side	10	21100	2535	1	HIGH	0.11	0.110	17.33	18.00	1.167	0.128	/
	DSI4		Back Side	10	21100	2535	1	HIGH	-0.12	0.311	17.33	18.00	1.167	0.363	/
	DSI2		Left Edge	10	21100	2535	1	MID	-0.09	0.357	23.77	24.00	1.054	0.376	/
	DSI4		Top Edge	10	21100	2535	1	HIGH	0.13	0.356	17.33	18.00	1.167	0.415	/
	DSI4		Front Side	10	21100	2535	50	MID	0.18	0.097	17.16	18.00	1.213	0.118	/
	DSI4		Back Side	10	21100	2535	50	MID	-0.01	0.277	17.16	18.00	1.213	0.336	/
	DSI2		Left Edge	10	21100	2535	50	LOW	-0.07	0.302	22.38	23.00	1.153	0.348	/
	DSI4		Top Edge	10	21100	2535	50	MID	-0.13	0.300	17.16	18.00	1.213	0.364	/
Ant.0	DSI4	QPSK	Front Side	10	21100	2535	1	HIGH	-0.13	0.199	20.77	21.50	1.183	0.235	/
	DSI4		Back Side	10	21100	2535	1	HIGH	0.12	0.320	20.77	21.50	1.183	0.379	/
	DSI2		Right Edge	10	21350	2560	1	LOW	-0.08	0.191	23.51	25.00	1.409	0.269	/
	DSI2		Left Edge	10	21350	2560	1	LOW	0.18	0.326	23.51	25.00	1.409	0.459	/
	DSI3		Bottom Edge	10	21100	2535	1	HIGH	0.02	0.510	20.77	21.50	1.183	<b>0.603</b>	<b>19#</b>
	DSI4		Front Side	10	21100	2535	50	HIGH	-0.18	0.164	20.73	21.50	1.194	0.196	/
	DSI4		Back Side	10	21100	2535	50	HIGH	-0.09	0.238	20.73	21.50	1.194	0.284	/
	DSI2		Right Edge	10	21350	2560	50	HIGH	-0.14	0.140	22.66	24.00	1.361	0.191	/

	DSI2		Left Edge	10	21350	2560	50	HIGH	-0.02	0.253	22.66	24.00	1.361	0.344	/
	DSI3		Bottom Edge	10	21100	2535	50	HIGH	0.06	0.400	20.73	21.50	1.194	0.478	/
<b>Sensor N-1</b>															
Ant.1	DSI2	QPSK	Front Side	10	21100	2535	1	MID	0.07	0.592	23.77	24.00	1.054	0.624	/
	DSI2		Back Side	17	21100	2535	1	MID	0.06	0.524	23.77	24.00	1.054	0.552	/
	DSI2		Top Edge	18	21100	2535	1	MID	-0.18	0.607	23.77	24.00	1.054	<b>0.640</b>	/
	DSI2		Front Side	10	21100	2535	50	LOW	-0.05	0.474	22.38	23.00	1.153	0.547	/
	DSI2		Back Side	17	21100	2535	50	LOW	-0.02	0.437	22.38	23.00	1.153	0.504	/
	DSI2		Top Edge	18	21100	2535	50	LOW	0.18	0.485	22.38	23.00	1.153	0.559	/
Ant.0	DSI2	QPSK	Back Side	15	21100	2535	1	LOW	0.09	0.311	23.51	25.00	1.409	0.438	/
	DSI2		Bottom Edge	17	21100	2535	1	LOW	0.06	0.401	23.51	25.00	1.409	0.565	/
	DSI2		Back Side	15	21100	2535	50	HIGH	-0.16	0.303	22.66	24.00	1.361	0.412	/
	DSI2		Bottom Edge	17	21100	2535	50	HIGH	-0.09	0.398	22.66	24.00	1.361	0.542	/

Note: Refer to ANNEX C for the detailed test data for each test configuration.

Antenna	Power Reduction	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-power (dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
<b>Specific</b>															
Ant.1	DSI4	QPSK	Back Side	0	21100	2535	1	HIGH	0.05	0.727	17.33	18.00	1.167	0.848	/
	DSI4		Top Edge	0	21100	2535	1	HIGH	0.04	1.050	17.33	18.00	1.167	1.225	/
	DSI4		Back Side	0	21100	2535	50	MID	-0.02	0.647	17.16	18.00	1.213	0.785	/
	DSI4		Top Edge	0	21100	2535	50	MID	-0.13	0.895	17.16	18.00	1.213	1.086	/
Ant.0	DSI3	QPSK	Bottom Edge	0	21100	2535	1	HIGH	0.15	1.240	20.77	21.50	1.183	<b>1.467</b>	20#
	DSI3		Bottom Edge	0	21100	2535	50	HIGH	0.14	1.050	20.73	21.50	1.194	1.254	/

Note: Refer to ANNEX C for the detailed test data for each test configuration.

### 11.10 LTE Band 13 (10MHz Bandwidth)

Antenna	Power Reduction	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-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>															
Ant.1	DSI1	QPSK	Left Cheek	0	23230	782	1	LOW	-0.16	0.367	23.19	24.00	1.205	0.442	/
	DSI1		Left Tilt	0	23230	782	1	LOW	0.04	0.342	23.19	24.00	1.205	0.412	/
	DSI1		Right Cheek	0	23230	782	1	LOW	0.00	0.470	23.19	24.00	1.205	<b>0.566</b>	21#
	DSI1		Right Tilt	0	23230	782	1	LOW	-0.04	0.414	23.19	24.00	1.205	0.499	/
	DSI1		Left Cheek	0	23230	782	25	LOW	-0.05	0.290	23.15	24.00	1.216	0.353	/
	DSI1		Left Tilt	0	23230	782	25	LOW	0.06	0.262	23.15	24.00	1.216	0.319	/
	DSI1		Right Cheek	0	23230	782	25	LOW	0.11	0.378	23.15	24.00	1.216	0.460	/
	DSI1		Right Tilt	0	23230	782	25	LOW	-0.14	0.335	23.15	24.00	1.216	0.407	/
Ant.0	DSI1	QPSK	Left Cheek	0	23230	782	1	LOW	0.17	0.154	24.70	25.50	1.202	0.185	/
	DSI1		Left Tilt	0	23230	782	1	LOW	0.00	0.096	24.70	25.50	1.202	0.115	/
	DSI1		Right Cheek	0	23230	782	1	LOW	0.14	0.180	24.70	25.50	1.202	0.216	/
	DSI1		Right Tilt	0	23230	782	1	LOW	0.18	0.106	24.70	25.50	1.202	0.127	/
	DSI1		Left Cheek	0	23230	782	25	MID	-0.14	0.126	23.77	24.50	1.183	0.149	/
	DSI1		Left Tilt	0	23230	782	25	MID	0.10	0.077	23.77	24.50	1.183	0.091	/
	DSI1		Right Cheek	0	23230	782	25	MID	0.01	0.141	23.77	24.50	1.183	0.167	/
	DSI1		Right Tilt	0	23230	782	25	MID	-0.07	0.087	23.77	24.50	1.183	0.103	/
<b>Body-worn&amp;Hotspot</b>															
Ant.1	DSI4	QPSK	Front Side	10	23230	782	1	MID	-0.02	0.164	24.33	25.50	1.309	0.215	/
	DSI4		Back Side	10	23230	782	1	MID	0.18	0.269	24.33	25.50	1.309	0.352	/
	DSI4		Left Edge	10	23230	782	1	MID	-0.04	0.078	24.33	25.50	1.309	0.102	/
	DSI4		Top Edge	10	23230	782	1	MID	-0.16	0.230	24.33	25.50	1.309	0.301	/
	DSI4		Front Side	10	23230	782	25	MID	0.17	0.134	23.42	24.50	1.282	0.172	/
	DSI4		Back Side	10	23230	782	25	MID	0.15	0.294	23.42	24.50	1.282	0.377	/
	DSI4		Left Edge	10	23230	782	25	MID	-0.14	0.066	23.42	24.50	1.282	0.085	/
	DSI4		Top Edge	10	23230	782	25	MID	-0.09	0.143	23.42	24.50	1.282	0.183	/
Ant.0	DSI4	QPSK	Front Side	10	23230	782	1	LOW	-0.14	0.186	24.70	25.50	1.202	0.224	/
	DSI4		Back Side	10	23230	782	1	LOW	-0.01	0.328	24.70	25.50	1.202	<b>0.394</b>	22#
	DSI2		Right Edge	10	23230	782	1	LOW	-0.16	0.091	24.70	25.50	1.202	0.109	/
	DSI2		Left Edge	10	23230	782	1	LOW	-0.09	0.047	24.70	25.50	1.202	0.056	/
	DSI3		Bottom Edge	10	23230	782	1	LOW	0.12	0.286	24.70	25.50	1.202	0.344	/
	DSI4		Front Side	10	23230	782	25	LOW	0.08	0.139	23.77	24.50	1.183	0.164	/
	DSI4		Back Side	10	23230	782	25	LOW	0.00	0.255	23.77	24.50	1.183	0.302	/
	DSI2		Right Edge	10	23230	782	25	LOW	0.03	0.058	23.77	24.50	1.183	0.069	/
	DSI2		Left Edge	10	23230	782	25	LOW	0.13	0.010	23.77	24.50	1.183	0.012	/
	DSI3		Bottom	10	23230	782	25	LOW	0.11	0.208	23.77	24.50	1.183	0.246	/



			Edge												
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Note: Refer to ANNEX C for the detailed test data for each test configuration.

### 11.11 LTE Band 26 (15MHz Bandwidth)

Antenna	Power Reduction	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-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>															
Ant.1	DSI1	QPSK	Left Cheek	0	26865	831.5	1	MID	0.00	0.355	22.34	23.00	1.164	0.413	/
	DSI1		Left Tilt	0	26865	831.5	1	MID	-0.07	0.330	22.34	23.00	1.164	0.384	/
	DSI1		Right Cheek	0	26865	831.5	1	MID	0.12	0.475	22.34	23.00	1.164	<b>0.553</b>	23#
	DSI1		Right Tilt	0	26865	831.5	1	MID	-0.14	0.394	22.34	23.00	1.164	0.459	/
	DSI1		Left Cheek	0	26865	831.5	36	LOW	-0.03	0.291	22.24	23.00	1.191	0.347	/
	DSI1		Left Tilt	0	26865	831.5	36	LOW	0.01	0.267	22.24	23.00	1.191	0.318	/
	DSI1		Right Cheek	0	26865	831.5	36	LOW	-0.06	0.373	22.24	23.00	1.191	0.444	/
	DSI1		Right Tilt	0	26865	831.5	36	LOW	0.06	0.294	22.24	23.00	1.191	0.350	/
Ant.0	DSI1	QPSK	Left Cheek	0	26865	831.5	1	LOW	0.05	0.161	24.71	25.50	1.199	0.193	/
	DSI1		Left Tilt	0	26865	831.5	1	LOW	0.11	0.096	24.71	25.50	1.199	0.115	/
	DSI1		Right Cheek	0	26865	831.5	1	LOW	0.09	0.175	24.71	25.50	1.199	0.210	/
	DSI1		Right Tilt	0	26865	831.5	1	LOW	-0.08	0.090	24.71	25.50	1.199	0.108	/
	DSI1		Left Cheek	0	26865	831.5	36	LOW	0.14	0.134	23.23	24.50	1.340	0.180	/
	DSI1		Left Tilt	0	26865	831.5	36	LOW	0.13	0.071	23.23	24.50	1.340	0.095	/
	DSI1		Right Cheek	0	26865	831.5	36	LOW	0.06	0.146	23.23	24.50	1.340	0.196	/
	DSI1		Right Tilt	0	26865	831.5	36	LOW	-0.06	0.078	23.23	24.50	1.340	0.105	/
<b>Body-worn&amp;Hotspot</b>															
Ant.1	DSI4	QPSK	Front Side	10	26865	831.5	1	MID	-0.16	0.209	24.18	25.50	1.355	0.283	/
	DSI4		Back Side	10	26865	831.5	1	MID	-0.14	0.312	24.18	25.50	1.355	0.423	/
	DSI4		Left Edge	10	26865	831.5	1	MID	-0.02	0.102	24.18	25.50	1.355	0.138	/
	DSI4		Top Edge	10	26865	831.5	1	MID	-0.17	0.225	24.18	25.50	1.355	0.305	/
	DSI4		Front Side	10	26865	831.5	36	HIGH	0.12	0.172	23.30	24.50	1.318	0.227	/
	DSI4		Back Side	10	26865	831.5	36	HIGH	0.10	0.254	23.30	24.50	1.318	0.335	/
	DSI4		Left Edge	10	26865	831.5	36	HIGH	-0.11	0.084	23.30	24.50	1.318	0.111	/
	DSI4		Top Edge	10	26865	831.5	36	HIGH	0.18	0.214	23.30	24.50	1.318	0.282	/
Ant.0	DSI4	QPSK	Front Side	10	26865	831.5	1	LOW	-0.17	0.163	24.71	25.50	1.199	0.195	/
	DSI4		Back Side	10	26865	831.5	1	LOW	0.01	0.373	24.71	25.50	1.199	<b>0.447</b>	24#
	DSI2		Right Edge	10	26865	831.5	1	LOW	0.16	0.056	24.71	25.50	1.199	0.067	/
	DSI2		Left Edge	10	26865	831.5	1	LOW	0.07	0.010	24.71	25.50	1.199	0.012	/
	DSI3		Bottom Edge	10	26865	831.5	1	LOW	-0.03	0.210	24.71	25.50	1.199	0.252	/
	DSI4		Front Side	10	26865	831.5	36	LOW	-0.05	0.132	23.23	24.50	1.340	0.177	/
	DSI4		Back Side	10	26865	831.5	36	LOW	0.01	0.299	23.23	24.50	1.340	0.401	/

	DSI2		Right Edge	10	26865	831.5	36	LOW	-0.10	0.052	23.23	24.50	1.340	0.070	/
	DSI2		Left Edge	10	26865	831.5	36	LOW	0.18	0.050	23.23	24.50	1.340	0.067	/
	DSI3		Bottom Edge	10	26865	831.5	36	LOW	-0.10	0.206	23.23	24.50	1.340	0.276	/

Note: Refer to ANNEX C for the detailed test data for each test configuration.

### 11.12 LTE Band 66 (20MHz Bandwidth)

Antenna	Power Reduction	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-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>															
Ant.1	DSI1	QPSK	Left Cheek	0	132322	1745	1	HIGH	0.07	0.406	19.26	20.00	1.186	0.482	/
	DSI1		Left Tilt	0	132322	1745	1	HIGH	-0.12	0.440	19.26	20.00	1.186	0.522	/
	DSI1		Right Cheek	0	132322	1745	1	HIGH	-0.08	0.592	19.26	20.00	1.186	0.702	/
	DSI1		Right Tilt	0	132322	1745	1	HIGH	-0.03	0.710	19.26	20.00	1.186	<b>0.842</b>	25#
	DSI1		Left Cheek	0	132322	1745	50	LOW	-0.11	0.640	19.23	20.00	1.194	0.764	/
	DSI1		Left Tilt	0	132322	1745	50	LOW	-0.08	0.324	19.23	20.00	1.194	0.387	/
	DSI1		Right Cheek	0	132322	1745	50	LOW	0.14	0.361	19.23	20.00	1.194	0.431	/
	DSI1		Right Tilt	0	132322	1745	50	LOW	0.02	0.493	19.23	20.00	1.194	0.589	/
	DSI1		Right Tilt	0	132072	1720	1	MID	0.11	0.519	19.08	20.00	1.236	0.641	/
	DSI1		Right Tilt	0	132572	1770	1	HIGH	-0.17	0.502	19.22	20.00	1.197	0.601	/
	DSI1		Right Tilt	0	132072	1720	50	LOW	-0.09	0.685	19.17	20.00	1.211	0.830	/
	DSI1		Right Tilt	0	132572	1770	50	MID	0.08	0.420	19.20	20.00	1.202	0.505	/
	DSI1		Right Tilt	0	132322	1745	100	LOW	-0.05	0.595	19.20	20.00	1.202	0.715	/
Ant.0	DSI1	QPSK	Left Cheek	0	132322	1745	1	LOW	-0.14	0.133	24.88	25.50	1.153	0.153	/
	DSI1		Left Tilt	0	132322	1745	1	LOW	0.06	0.160	24.88	25.50	1.153	0.184	/
	DSI1		Right Cheek	0	132322	1745	1	LOW	0.07	0.132	24.88	25.50	1.153	0.152	/
	DSI1		Right Tilt	0	132322	1745	1	LOW	0.01	0.194	24.88	25.50	1.153	0.224	/
	DSI1		Left Cheek	0	132322	1745	50	LOW	0.08	0.113	23.71	24.50	1.199	0.135	/
	DSI1		Left Tilt	0	132322	1745	50	LOW	0.11	0.123	23.71	24.50	1.199	0.147	/
	DSI1		Right Cheek	0	132322	1745	50	LOW	-0.07	0.101	23.71	24.50	1.199	0.121	/
	DSI1		Right Tilt	0	132322	1745	50	LOW	-0.11	0.158	23.71	24.50	1.199	0.189	/
<b>Body-worn&amp;Hotspot</b>															
Ant.1	DSI4	QPSK	Front Side	10	132572	1770	1	MID	-0.07	0.253	23.30	24.00	1.175	0.297	/
	DSI4		Back Side	10	132572	1770	1	MID	-0.09	0.357	23.30	24.00	1.175	0.419	/
	DSI2		Left Edge	10	132572	1770	1	LOW	-0.05	0.197	24.71	25.50	1.199	0.236	/
	DSI4		Top Edge	10	132572	1770	1	MID	-0.05	0.547	23.30	24.00	1.175	<b>0.643</b>	26#
	DSI4		Front Side	10	132322	1745	50	HIGH	0.10	0.195	23.25	24.00	1.189	0.232	/
	DSI4		Back Side	10	132322	1745	50	HIGH	0.13	0.280	23.25	24.00	1.189	0.333	/
	DSI2		Left Edge	10	132572	1770	50	LOW	0.15	0.149	23.82	24.50	1.169	0.174	/
	DSI4		Top Edge	10	132322	1745	50	HIGH	-0.09	0.369	23.25	24.00	1.189	0.439	/

Ant.0	DSI4	QPSK	Front Side	10	132322	1745	1	LOW	-0.08	0.131	20.57	21.50	1.239	0.162	/
	DSI4		Back Side	10	132322	1745	1	LOW	0.00	0.250	20.57	21.50	1.239	0.310	/
	DSI2		Right Edge	10	132322	1745	1	LOW	0.08	0.015	24.88	25.50	1.153	0.017	/
	DSI2		Left Edge	10	132322	1745	1	LOW	-0.08	0.101	24.88	25.50	1.153	0.116	/
	DSI3		Bottom Edge	10	132322	1745	1	LOW	0.01	0.398	20.57	21.50	1.239	0.493	/
	DSI4		Front Side	10	132322	1745	50	LOW	-0.10	0.122	20.68	21.50	1.208	0.147	/
	DSI4		Back Side	10	132322	1745	50	LOW	-0.18	0.242	20.68	21.50	1.208	0.292	/
	DSI2		Right Edge	10	132322	1745	50	LOW	-0.07	0.011	23.71	24.50	1.199	0.013	/
	DSI2		Left Edge	10	132322	1745	50	LOW	-0.04	0.097	23.71	24.50	1.199	0.116	/
	DSI3		Bottom Edge	10	132322	1745	50	LOW	0.15	0.374	20.68	21.50	1.208	0.452	/

**Sensor N-1**

Ant.1	DSI2	QPSK	Front Side	10	132572	1770	1	LOW	0.04	0.478	24.71	25.50	1.199	0.573	/
	DSI2		Back Side	17	132572	1770	1	LOW	-0.08	0.221	24.71	25.50	1.199	0.265	/
	DSI2		Top Edge	18	132572	1770	1	LOW	-0.14	0.297	24.71	25.50	1.199	0.356	/
	DSI2		Front Side	10	132572	1770	50	LOW	0.10	0.409	23.82	24.50	1.169	0.478	/
	DSI2		Back Side	17	132572	1770	50	LOW	-0.01	0.194	23.82	24.50	1.169	0.227	/
	DSI2		Top Edge	18	132572	1770	50	LOW	0.18	0.245	23.82	24.50	1.169	0.286	/
Ant.0	DSI2	QPSK	Back Side	15	132322	1745	1	Low	0.00	0.524	24.88	25.50	1.153	0.604	/
	DSI2		Bottom Edge	17	132322	1745	1	Low	0.16	0.675	24.88	25.50	1.153	<b>0.778</b>	/
	DSI2		Back Side	15	132322	1745	50	Low	-0.08	0.423	23.71	24.50	1.199	0.507	/
	DSI2		Bottom Edge	17	132322	1745	50	Low	0.15	0.566	23.71	24.50	1.199	0.679	/

Note: Refer to ANNEX C for the detailed test data for each test configuration.

Antenna	Power Reduction	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-power (dBm)	Scaling Factor	10 g Scaled SAR (W/kg)	Meas. No.
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**Specific**

Ant.0	DSI3	QPSK	Bottom Edge	0	132322	1745	1	LOW	0.03	1.400	20.57	21.50	1.239	<b>1.735</b>	27#
	DSI3		Bottom Edge	0	132322	1745	50	LOW	-0.07	1.350	20.68	21.50	1.208	1.631	/

Note: Refer to ANNEX C for the detailed test data for each test configuration.

### 11.13 LTE Band 38 (20MHz Bandwidth)

Antenna	Power Reduction	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-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>															
Ant.1	DSI1	QPSK	Left Cheek	0	38000	2595	1	HIGH	0.10	0.139	17.32	18.00	1.169	0.162	/
	DSI1		Left Tilt	0	38000	2595	1	HIGH	0.18	0.180	17.32	18.00	1.169	0.210	/
	DSI1		Right Cheek	0	38000	2595	1	HIGH	-0.03	0.356	17.32	18.00	1.169	0.416	/
	DSI1		Right Tilt	0	38000	2595	1	HIGH	0.02	0.439	17.32	18.00	1.169	<b>0.513</b>	28#
	DSI1		Left Cheek	0	38000	2595	50	MID	-0.10	0.113	17.22	18.00	1.197	0.135	/
	DSI1		Left Tilt	0	38000	2595	50	MID	-0.06	0.148	17.22	18.00	1.197	0.177	/
	DSI1		Right Cheek	0	38000	2595	50	MID	-0.07	0.274	17.22	18.00	1.197	0.328	/
	DSI1		Right Tilt	0	38000	2595	50	MID	0.02	0.343	17.22	18.00	1.197	0.411	/
Ant.0	DSI1	QPSK	Left Cheek	0	37850	2580	1	LOW	-0.17	0.109	23.84	25.00	1.306	0.142	/
	DSI1		Left Tilt	0	37850	2580	1	LOW	0.11	0.085	23.84	25.00	1.306	0.111	/
	DSI1		Right Cheek	0	37850	2580	1	LOW	-0.14	0.078	23.84	25.00	1.306	0.102	/
	DSI1		Right Tilt	0	37850	2580	1	LOW	0.10	0.053	23.84	25.00	1.306	0.069	/
	DSI1		Left Cheek	0	38000	2595	50	MID	-0.17	0.089	22.86	24.00	1.300	0.116	/
	DSI1		Left Tilt	0	38000	2595	50	MID	-0.03	0.070	22.86	24.00	1.300	0.091	/
	DSI1		Right Cheek	0	38000	2595	50	MID	0.04	0.062	22.86	24.00	1.300	0.081	/
	DSI1		Right Tilt	0	38000	2595	50	MID	0.11	0.045	22.86	24.00	1.300	0.059	/
<b>Body-worn&amp;Hotspot</b>															
Ant.1	DSI4	QPSK	Front Side	10	38000	2595	1	MID	0.01	0.132	19.86	20.00	1.033	0.136	/
	DSI4		Back Side	10	38000	2595	1	MID	0.10	0.417	19.86	20.00	1.033	0.431	/
	DSI2		Left Edge	10	38000	2595	1	HIGH	-0.02	0.331	24.89	25.00	1.026	0.340	/
	DSI4		Top Edge	10	38000	2595	1	MID	0.02	0.435	19.86	20.00	1.033	<b>0.449</b>	29#
	DSI4		Front Side	10	38000	2595	50	LOW	0.04	0.126	19.73	20.00	1.064	0.134	/
	DSI4		Back Side	10	38000	2595	50	LOW	-0.17	0.402	19.73	20.00	1.064	0.428	/
	DSI2		Left Edge	10	38000	2595	50	MID	-0.13	0.218	23.72	24.00	1.067	0.233	/
	DSI4		Top Edge	10	38000	2595	50	LOW	0.12	0.421	19.73	20.00	1.064	0.448	/
Ant.0	DSI4	QPSK	Front Side	10	37850	2580	1	MID	-0.17	0.089	22.79	24.00	1.321	0.118	/
	DSI4		Back Side	10	37850	2580	1	MID	-0.03	0.115	22.79	24.00	1.321	0.152	/
	DSI2		Right Edge	10	37850	2580	1	LOW	-0.17	0.053	23.84	25.00	1.306	0.069	/
	DSI2		Left Edge	10	37850	2580	1	LOW	0.09	0.139	23.84	25.00	1.306	0.182	/
	DSI3		Bottom Edge	10	37850	2580	1	MID	-0.13	0.228	22.79	24.00	1.321	0.301	/
	DSI4		Front Side	10	38000	2595	50	HIGH	-0.15	0.069	22.85	24.00	1.303	0.090	/
	DSI4		Back Side	10	38000	2595	50	HIGH	0.17	0.096	22.85	24.00	1.303	0.125	/
	DSI2		Right Edge	10	38000	2595	50	MID	-0.14	0.047	22.86	24.00	1.300	0.061	/
	DSI2		Left Edge	10	38000	2595	50	MID	-0.04	0.124	22.86	24.00	1.300	0.161	/
	DSI3		Bottom Edge	10	38000	2595	50	HIGH	0.00	0.127	22.85	24.00	1.303	0.165	/
<b>Sensor N-1</b>															

Ant.1	DSI2	QPSK	Front Side	10	38000	2595	1	HIGH	0.12	0.426	24.89	25.00	1.026	0.437	/
	DSI2		Back Side	17	38000	2595	1	HIGH	-0.12	0.620	24.89	25.00	1.026	<b>0.636</b>	/
	DSI2		Top Edge	18	38000	2595	1	HIGH	-0.13	0.464	24.89	25.00	1.026	0.476	/
	DSI2		Front Side	10	38000	2595	50	MID	-0.07	0.316	23.72	24.00	1.067	0.337	/
	DSI2		Back Side	17	38000	2595	50	MID	-0.18	0.477	23.72	24.00	1.067	0.509	/
	DSI2		Top Edge	18	38000	2595	50	MID	-0.06	0.321	23.72	24.00	1.067	0.343	/
Ant.0	DSI2	QPSK	Back Side	15	37850	2580	1	LOW	-0.09	0.202	23.84	25.00	1.306	0.264	/
	DSI2		Bottom Edge	17	37850	2580	1	LOW	-0.09	0.264	23.84	25.00	1.306	0.345	/
	DSI2		Back Side	15	38000	2595	50	MID	-0.13	0.167	22.86	24.00	1.300	0.217	/
	DSI2		Bottom Edge	17	38000	2595	50	MID	0.00	0.212	22.86	24.00	1.300	0.276	/

Note: Refer to ANNEX C for the detailed test data for each test configuration.

Antenna	Power Reduction	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-power (dBm)	Scaling Factor	10 g Scaled SAR (W/kg)	Meas. No.
<b>Specific</b>															
Ant.1	DSI4	QPSK	Back Side	0	38000	2595	1	MID	-0.17	1.880	19.86	20.00	1.033	1.942	/
	DSI4		Top Edge	0	38000	2595	1	MID	-0.08	1.970	19.86	20.00	1.033	<b>2.035</b>	30#
	DSI4		Back Side	0	38000	2595	50	LOW	-0.14	1.560	19.73	20.00	1.064	1.660	/
	DSI4		Top Edge	0	38000	2595	50	LOW	0.12	1.610	19.73	20.00	1.064	1.713	/

Note: Refer to ANNEX C for the detailed test data for each test configuration.

### 11.14 LTE Band 41 (10MHz Bandwidth)

Antenna	Power Reduction	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-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>															
Ant.1	DSI1	QPSK	Left Cheek	0	40620	2593	1	MID	0.08	0.248	17.84	18.50	1.164	0.289	/
	DSI1		Left Tilt	0	40620	2593	1	MID	0.02	0.323	17.84	18.50	1.164	0.376	/
	DSI1		Right Cheek	0	40620	2593	1	MID	0.11	0.573	17.84	18.50	1.164	0.667	/
	DSI1		Right Tilt	0	40620	2593	1	MID	0.08	0.602	17.84	18.50	1.164	<b>0.701</b>	31#
	DSI1		Left Cheek	0	39750	2506	50	HIGH	-0.11	0.193	17.78	18.50	1.180	0.228	/
	DSI1		Left Tilt	0	39750	2506	50	HIGH	0.06	0.262	17.78	18.50	1.180	0.309	/
	DSI1		Right Cheek	0	39750	2506	50	HIGH	0.01	0.562	17.78	18.50	1.180	0.663	/
	DSI1		Right Tilt	0	39750	2506	50	HIGH	-0.04	0.592	17.78	18.50	1.180	0.699	/
Ant.0	DSI1	QPSK	Left Cheek	0	39750	2506	1	HIGH	0.02	0.190	24.37	25.00	1.156	0.220	/
	DSI1		Left Tilt	0	39750	2506	1	HIGH	0.04	0.149	24.37	25.00	1.156	0.172	/
	DSI1		Right Cheek	0	39750	2506	1	HIGH	0.15	0.134	24.37	25.00	1.156	0.155	/
	DSI1		Right Tilt	0	39750	2506	1	HIGH	0.11	0.088	24.37	25.00	1.156	0.102	/
	DSI1		Left Cheek	0	39750	2506	50	HIGH	0.08	0.152	23.18	24.00	1.208	0.184	/
	DSI1		Left Tilt	0	39750	2506	50	HIGH	0.01	0.118	23.18	24.00	1.208	0.143	/
	DSI1		Right Cheek	0	39750	2506	50	HIGH	0.00	0.098	23.18	24.00	1.208	0.118	/
	DSI1		Right Tilt	0	39750	2506	50	HIGH	0.02	0.071	23.18	24.00	1.208	0.086	/
<b>Body-worn&amp;Hotspot</b>															
Ant.1	DSI4	QPSK	Front Side	10	40620	2593	1	LOW	0.01	0.127	19.76	20.50	1.186	0.151	/
	DSI4		Back Side	10	40620	2593	1	LOW	0.17	0.405	19.76	20.50	1.186	0.480	/
	DSI2		Left Edge	10	40620	2593	1	HIGH	-0.08	0.297	24.81	25.00	1.045	0.310	/
	DSI4		Top Edge	10	40620	2593	1	LOW	-0.03	0.437	19.76	20.50	1.186	<b>0.518</b>	32#
	DSI4		Front Side	10	39750	2506	50	LOW	-0.06	0.103	19.84	20.50	1.164	0.120	/
	DSI4		Back Side	10	39750	2506	50	LOW	0.11	0.280	19.84	20.50	1.164	0.326	/
	DSI2		Left Edge	10	40620	2593	50	HIGH	0.13	0.239	23.78	24.00	1.052	0.251	/
	DSI4		Top Edge	10	39750	2506	50	LOW	0.18	0.362	19.84	20.50	1.164	0.421	/
Ant.0	DSI4	QPSK	Front Side	10	39750	2506	1	HIGH	0.11	0.091	23.68	24.00	1.076	0.098	/
	DSI4		Back Side	10	39750	2506	1	HIGH	-0.08	0.118	23.68	24.00	1.076	0.127	/
	DSI2		Right Edge	10	39750	2506	1	HIGH	-0.05	0.051	24.37	25.00	1.156	0.059	/
	DSI2		Left Edge	10	39750	2506	1	HIGH	-0.11	0.134	24.37	25.00	1.156	0.155	/
	DSI3		Bottom Edge	10	39750	2506	1	HIGH	-0.16	0.186	23.68	24.00	1.076	0.200	/
	DSI4		Front Side	10	39750	2506	50	HIGH	-0.03	0.072	23.82	24.00	1.042	0.075	/
	DSI4		Back Side	10	39750	2506	50	HIGH	0.16	0.093	23.82	24.00	1.042	0.097	/
	DSI2		Right Edge	10	39750	2506	50	MID	0.08	0.047	23.18	24.00	1.208	0.057	/
	DSI2		Left Edge	10	39750	2506	50	MID	0.08	0.081	23.18	24.00	1.208	0.098	/
	DSI3		Bottom Edge	10	39750	2506	50	HIGH	-0.18	0.141	23.82	24.00	1.042	0.147	/
<b>Sensor N-1</b>															

Ant.1	DSI2	QPSK	Front Side	10	40620	2593	1	HIGH	0.10	0.424	24.81	25.00	1.045	0.443	/
	DSI2		Back Side	17	40620	2593	1	HIGH	-0.07	0.501	24.81	25.00	1.045	<b>0.524</b>	/
	DSI2		Top Edge	18	40620	2593	1	HIGH	0.11	0.471	24.81	25.00	1.045	0.492	/
	DSI2		Front Side	10	40620	2593	50	HIGH	-0.16	0.331	23.78	24.00	1.052	0.348	/
	DSI2		Back Side	17	40620	2593	50	HIGH	-0.16	0.386	23.78	24.00	1.052	0.406	/
	DSI2		Top Edge	18	40620	2593	50	HIGH	0.01	0.355	23.78	24.00	1.052	0.373	/
Ant.0	DSI2	QPSK	Back Side	15	40620	2593	1	HIGH	-0.01	0.231	24.37	25.00	1.156	0.267	/
	DSI2		Bottom Edge	17	40620	2593	1	HIGH	-0.18	0.196	24.37	25.00	1.156	0.227	/
	DSI2		Back Side	15	40620	2593	50	MID	0.14	0.189	23.18	24.00	1.208	0.228	/
	DSI2		Bottom Edge	17	40620	2593	50	MID	0.17	0.148	23.18	24.00	1.208	0.179	/

Note: Refer to ANNEX C for the detailed test data for each test configuration.

Antenna	Power Reduction	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-power (dBm)	Scaling Factor	10 g Scaled SAR (W/kg)	Meas. No.
<b>Specific</b>															
Ant.1	DSI4	QPSK	Back Side	0	40620	2593	1	LOW	0.10	1.620	19.76	20.50	1.186	1.921	/
	DSI4		Top Edge	0	40620	2593	1	LOW	-0.01	1.980	19.76	20.50	1.186	<b>2.348</b>	33#
	DSI4		Back Side	0	39750	2506	50	LOW	0.04	1.510	19.84	20.50	1.164	1.758	/
	DSI4		Top Edge	0	39750	2506	50	LOW	0.16	1.920	19.84	20.50	1.164	2.235	/
	DSI4		Top Edge	0	39750	2506	1	LOW	-0.06	1.710	19.63	20.50	1.222	2.090	/
	DSI4		Top Edge	0	41490	2680	1	HIGH	0.03	1.670	19.71	20.50	1.199	2.002	/
	DSI4		Top Edge	0	40620	2593	50	LOW	-0.06	1.600	19.70	20.50	1.202	1.923	/
	DSI4		Top Edge	0	41490	2680	50	LOW	0.03	1.550	19.73	20.50	1.194	1.851	/
	DSI4		Top Edge	0	40620	2593	100	LOW	0.10	1.500	19.67	20.50	1.211	1.817	/

Note: Refer to ANNEX C for the detailed test data for each test configuration.

### 11.15 WIFI 2.4GHZ

Antenna	Power Reduction	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 (%)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>															
Ant.2	Level1	802.11 b	Left Cheek	0	6	2437	0.00	0.784	16.41	16.50	1.021	99.30	1.007	<b>0.806</b>	34#
	Level1	802.11 b	Left Tilt	0	6	2437	-0.05	0.586	16.41	16.50	1.021	99.30	1.007	0.602	/
	Level1	802.11 b	Right Cheek	0	6	2437	-0.01	0.484	16.41	16.50	1.021	99.30	1.007	0.498	/
	Level1	802.11 b	Right Tilt	0	6	2437	0.11	0.483	16.41	16.50	1.021	99.30	1.007	0.497	/
	Level1	802.11 b	Left Cheek	0	1	2412	-0.08	0.672	16.19	16.50	1.074	99.30	1.007	0.727	/
	Level1	802.11 b	Left Cheek	0	11	2462	0.02	0.704	16.12	16.50	1.091	99.30	1.007	0.773	/
<b>Body-Wron&amp;Hotspot</b>															
Ant.2	Level2	802.11 b	Front Side	10	6	2437	-0.08	0.136	16.41	16.50	1.021	99.30	1.007	0.140	/
	Level2	802.11 b	Back Side	10	6	2437	-0.01	0.230	16.41	16.50	1.021	99.30	1.007	<b>0.236</b>	35#
	Level2	802.11 b	Right Edge	10	6	2437	0.06	0.095	16.41	16.50	1.021	99.30	1.007	0.098	/
	Level2	802.11 b	Top Edge	10	6	2437	-0.05	0.137	16.41	16.50	1.021	99.30	1.007	0.141	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															



### 11.16 Bluetooth

Antenna	Power Reduction	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 (%)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>															
Ant.2	Level1	DH5	Left Cheek	0	78	2480	-0.02	0.055	8.06	9.00	1.242	77.14	1.296	<b>0.089</b>	36#
Ant.2	Level1	DH5	Left Tilt	0	78	2480	-0.04	0.022	8.06	9.00	1.242	77.14	1.296	0.036	/
Ant.2	Level1	DH5	Right Cheek	0	78	2480	-0.01	0.028	8.06	9.00	1.242	77.14	1.296	0.045	/
Ant.2	Level1	DH5	Right Tilt	0	78	2480	-0.04	0.016	8.06	9.00	1.242	77.14	1.296	0.026	/
<b>Body-Wron&amp;Hotspot</b>															
Ant.2	Level2	DH5	Front Side	10	78	2480	0.07	0.005	8.06	9.00	1.242	77.14	1.296	0.008	/
Ant.2	Level2	DH5	Back Side	10	78	2480	0.14	0.006	8.06	9.00	1.242	77.14	1.296	0.010	/
Ant.2	Level2	DH5	Right Edge	10	78	2480	0.02	0.006	8.06	9.00	1.242	77.14	1.296	0.010	/
Ant.2	Level2	DH5	Top Edge	10	78	2480	0.00	0.010	8.06	9.00	1.242	77.14	1.296	<b>0.016</b>	37#

Note: Refer to ANNEX C for the detailed test data for each test configuration.

## 12 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  $\leq 1.45$  W/kg and the ratio of these highest SAR values, i.e., largest divided by smallest value, is  $\leq 1.10$ , 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  $\geq 0.80$  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  $\geq 1.45$  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  $\geq 1.5$  W/kg, perform a third repeated measurement.

Note: For 1g SAR, the highest measured 1g SAR is  $0.784 < 0.80$  W/kg, repeated measurement is not required.

## 13 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).

### 13.1 Simultaneous Transmission Mode Consider

No.	Simultaneous Tx Combination	Head	Body-worn	Hotspot	Specific
1	WWAN+WIFI2.4G	Yes	Yes	Yes	Yes
2	WWAN+BT	Yes	Yes	Yes	Yes

Note:

1. WLAN 2.4G and Bluetooth share the same antenna, and can't transmit simultaneously.
2. When stand-alone SAR is not required for a transmitter or antenna, its SAR is considered zero in the SAR summing process to assess Multi-band transmission SAR compliance.
3. The maximum SAR summation is calculated based on the same configuration and test position.

## 13.2 Sum SAR of Simultaneous Transmission

### 13.2.1 Head Simultaneous Transmission SAR Evaluation for WWAN and WLAN

Band	Antenna	Position	Stand alone SAR			SUM SAR	
			1	2	3	1+2	1+3
			WWAN	2.4GWIFI	Bluetooth		
GSM850	Ant.1	Left Cheek	0.505	0.806	0.089	1.311	0.594
		Left Tilt	0.443	0.602	0.036	1.045	0.479
		Right Cheek	0.708	0.498	0.045	1.206	0.753
		Right Tilt	0.543	0.497	0.026	1.040	0.569
GSM850	Ant.0	Left Cheek	0.203	0.806	0.089	1.009	0.292
		Left Tilt	0.105	0.602	0.036	0.707	0.141
		Right Cheek	0.211	0.498	0.045	0.709	0.256
		Right Tilt	0.106	0.497	0.026	0.603	0.132
GSM1900	Ant.1	Left Cheek	0.367	0.806	0.089	1.173	0.456
		Left Tilt	0.397	0.602	0.036	0.999	0.433
		Right Cheek	0.635	0.498	0.045	1.133	0.680
		Right Tilt	0.696	0.497	0.026	1.193	0.722
GSM1900	Ant.0	Left Cheek	0.098	0.806	0.089	0.904	0.187
		Left Tilt	0.089	0.602	0.036	0.691	0.125
		Right Cheek	0.107	0.498	0.045	0.605	0.152
		Right Tilt	0.075	0.497	0.026	0.572	0.101
WCDMA B2	Ant.1	Left Cheek	0.319	0.806	0.089	1.125	0.408
		Left Tilt	0.347	0.602	0.036	0.949	0.383
		Right Cheek	0.584	0.498	0.045	1.082	0.629
		Right Tilt	0.689	0.497	0.026	1.186	0.715
WCDMA B2	Ant.0	Left Cheek	0.257	0.806	0.089	1.063	0.346
		Left Tilt	0.210	0.602	0.036	0.812	0.246
		Right Cheek	0.271	0.498	0.045	0.769	0.316
		Right Tilt	0.181	0.497	0.026	0.678	0.207
WCDMA B4	Ant.1	Left Cheek	0.500	0.806	0.089	1.306	0.589
		Left Tilt	0.541	0.602	0.036	1.143	0.577
		Right Cheek	0.769	0.498	0.045	1.267	0.814
		Right Tilt	0.724	0.497	0.026	1.221	0.750
WCDMA B4	Ant.0	Left Cheek	0.246	0.806	0.089	1.052	0.335
		Left Tilt	0.179	0.602	0.036	0.781	0.215
		Right Cheek	0.296	0.498	0.045	0.794	0.341
		Right Tilt	0.171	0.497	0.026	0.668	0.197
WCDMA B5	Ant.1	Left Cheek	0.452	0.806	0.089	1.258	0.541
		Left Tilt	0.391	0.602	0.036	0.993	0.427
		Right Cheek	0.586	0.498	0.045	1.084	0.631
		Right Tilt	0.501	0.497	0.026	0.998	0.527

WCDMA B5	Ant.0	Left Cheek	0.268	0.806	0.089	1.074	0.357
		Left Tilt	0.140	0.602	0.036	0.742	0.176
		Right Cheek	0.314	0.498	0.045	0.812	0.359
		Right Tilt	0.151	0.497	0.026	0.648	0.177
LTE B2	Ant.1	Left Cheek	0.353	0.806	0.089	1.159	0.442
		Left Tilt	0.409	0.602	0.036	1.011	0.445
		Right Cheek	0.646	0.498	0.045	1.144	0.691
		Right Tilt	0.688	0.497	0.026	1.185	0.714
LTE B2	Ant.0	Left Cheek	0.288	0.806	0.089	1.094	0.377
		Left Tilt	0.236	0.602	0.036	0.838	0.272
		Right Cheek	0.302	0.498	0.045	0.800	0.347
		Right Tilt	0.197	0.497	0.026	0.694	0.223
LTE B4	Ant.1	Left Cheek	0.425	0.806	0.089	1.231	0.514
		Left Tilt	0.476	0.602	0.036	1.078	0.512
		Right Cheek	0.636	0.498	0.045	1.134	0.681
		Right Tilt	0.601	0.497	0.026	1.098	0.627
LTE B4	Ant.0	Left Cheek	0.232	0.806	0.089	1.038	0.321
		Left Tilt	0.161	0.602	0.036	0.763	0.197
		Right Cheek	0.235	0.498	0.045	0.733	0.280
		Right Tilt	0.140	0.497	0.026	0.637	0.166
LTE B5	Ant.1	Left Cheek	0.497	0.806	0.089	1.303	0.586
		Left Tilt	0.447	0.602	0.036	1.049	0.483
		Right Cheek	0.681	0.498	0.045	1.179	0.726
		Right Tilt	0.524	0.497	0.026	1.021	0.550
LTE B5	Ant.0	Left Cheek	0.227	0.806	0.089	1.033	0.316
		Left Tilt	0.122	0.602	0.036	0.724	0.158
		Right Cheek	0.273	0.498	0.045	0.771	0.318
		Right Tilt	0.124	0.497	0.026	0.621	0.150
LTE B7	Ant.1	Left Cheek	0.217	0.806	0.089	1.023	0.306
		Left Tilt	0.263	0.602	0.036	0.865	0.299
		Right Cheek	0.523	0.498	0.045	1.021	0.568
		Right Tilt	0.648	0.497	0.026	1.145	0.674
LTE B7	Ant.0	Left Cheek	0.035	0.806	0.089	0.841	0.124
		Left Tilt	0.015	0.602	0.036	0.617	0.051
		Right Cheek	0.054	0.498	0.045	0.552	0.099
		Right Tilt	0.031	0.497	0.026	0.528	0.057
LTE B13	Ant.1	Left Cheek	0.442	0.806	0.089	1.248	0.531
		Left Tilt	0.412	0.602	0.036	1.014	0.448
		Right Cheek	0.566	0.498	0.045	1.064	0.611
		Right Tilt	0.499	0.497	0.026	0.996	0.525
LTE B13	Ant.0	Left Cheek	0.185	0.806	0.089	0.991	0.274
		Left Tilt	0.115	0.602	0.036	0.717	0.151
		Right Cheek	0.216	0.498	0.045	0.714	0.261

		Right Tilt	0.127	0.497	0.026	0.624	0.153
LTE B26	Ant.1	Left Cheek	0.413	0.806	0.089	1.219	0.502
		Left Tilt	0.384	0.602	0.036	0.986	0.420
		Right Cheek	0.553	0.498	0.045	1.051	0.598
		Right Tilt	0.459	0.497	0.026	0.956	0.485
LTE B26	Ant.0	Left Cheek	0.193	0.806	0.089	0.999	0.282
		Left Tilt	0.115	0.602	0.036	0.717	0.151
		Right Cheek	0.210	0.498	0.045	0.708	0.255
		Right Tilt	0.108	0.497	0.026	0.605	0.134
LTE B66	Ant.1	Left Cheek	0.482	0.806	0.089	1.288	0.571
		Left Tilt	0.522	0.602	0.036	1.124	0.558
		Right Cheek	0.702	0.498	0.045	1.200	0.747
		Right Tilt	0.842	0.497	0.026	<b>1.339</b>	0.868
LTE B66	Ant.0	Left Cheek	0.153	0.806	0.089	0.959	0.242
		Left Tilt	0.184	0.602	0.036	0.786	0.220
		Right Cheek	0.152	0.498	0.045	0.650	0.197
		Right Tilt	0.224	0.497	0.026	0.721	0.250
LTE B38	Ant.1	Left Cheek	0.162	0.806	0.089	0.968	0.251
		Left Tilt	0.210	0.602	0.036	0.812	0.246
		Right Cheek	0.416	0.498	0.045	0.914	0.461
		Right Tilt	0.513	0.497	0.026	1.010	0.539
LTE B38	Ant.0	Left Cheek	0.142	0.806	0.089	0.948	0.231
		Left Tilt	0.111	0.602	0.036	0.713	0.147
		Right Cheek	0.102	0.498	0.045	0.600	0.147
		Right Tilt	0.069	0.497	0.026	0.566	0.095
LTE B41	Ant.1	Left Cheek	0.289	0.806	0.089	1.095	0.378
		Left Tilt	0.376	0.602	0.036	0.978	0.412
		Right Cheek	0.667	0.498	0.045	1.165	0.712
		Right Tilt	0.701	0.497	0.026	1.198	0.727
LTE B41	Ant.0	Left Cheek	0.220	0.806	0.089	1.026	0.309
		Left Tilt	0.172	0.602	0.036	0.774	0.208
		Right Cheek	0.155	0.498	0.045	0.653	0.200
		Right Tilt	0.102	0.497	0.026	0.599	0.128

Note:

1: The highest Summed 1g SAR is 1.339 W/Kg &lt; 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

### 13.2.2 Body-worn&Hotspot Simultaneous Transmission SAR Evaluation for WWAN and WLAN

Band	Antenna	Position	Stand alone SAR			SUM SAR	
			1	2	3	1+2	1+3
			WWAN	2.4GWIFI	Bluetooth		
GSM850	Ant.1	Front Side 10mm	0.133	0.140	0.008	0.273	0.141
		Back Side 10mm	0.217	0.236	0.010	0.453	0.227
		Left Edge 10mm	0.064	0.000	0.000	0.064	0.064
		Right Edge 10mm	0.000	0.098	0.010	0.098	0.010
		Top Edge 10mm	0.165	0.141	0.016	0.306	0.181
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000
GSM850	Ant.0	Front Side 10mm	0.274	0.140	0.008	0.414	0.282
		Back Side 10mm	0.587	0.236	0.010	<b>0.823</b>	0.597
		Left Edge 10mm	0.031	0.000	0.000	0.031	0.031
		Right Edge 10mm	0.093	0.098	0.010	0.191	0.103
		Top Edge 10mm	0.000	0.141	0.016	0.141	0.016
		Bottom Edge 10mm	0.383	0.000	0.000	0.383	0.383
GSM1900	Ant.1	Front Side 10mm	0.139	0.140	0.008	0.279	0.147
		Back Side 10mm	0.214	0.236	0.010	0.450	0.224
		Left Edge 10mm	0.062	0.000	0.000	0.062	0.062
		Right Edge 10mm	0.000	0.098	0.010	0.098	0.010
		Top Edge 10mm	0.325	0.141	0.016	0.466	0.341
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000
GSM1900	Ant.0	Front Side 10mm	0.144	0.140	0.008	0.284	0.152
		Back Side 10mm	0.232	0.236	0.010	0.468	0.242
		Left Edge 10mm	0.121	0.000	0.000	0.121	0.121
		Right Edge 10mm	0.090	0.098	0.010	0.188	0.100
		Top Edge 10mm	0.000	0.141	0.016	0.141	0.016
		Bottom Edge 10mm	0.431	0.000	0.000	0.431	0.431
WCDMA B2	Ant.1	Front Side 10mm	0.522	0.140	0.008	0.662	0.530
		Back Side 10mm	0.289	0.236	0.010	0.525	0.299
		Left Edge 10mm	0.506	0.000	0.000	0.506	0.506
		Right Edge 10mm	0.000	0.098	0.010	0.098	0.010
		Top Edge 10mm	0.586	0.141	0.016	0.727	0.602
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000
WCDMA B2	Ant.0	Front Side 10mm	0.439	0.140	0.008	0.579	0.447
		Back Side 10mm	0.239	0.236	0.010	0.475	0.249
		Left Edge 10mm	0.224	0.000	0.000	0.224	0.224
		Right Edge 10mm	0.055	0.098	0.010	0.153	0.065
		Top Edge 10mm	0.000	0.141	0.016	0.141	0.016
		Bottom Edge 10mm	0.373	0.000	0.000	0.373	0.373

WCDMA B4	Ant.1	Front Side 10mm	0.281	0.140	0.008	0.421	0.289
		Back Side 10mm	0.461	0.236	0.010	0.697	0.471
		Left Edge 10mm	0.306	0.000	0.000	0.306	0.306
		Right Edge 10mm	0.000	0.098	0.010	0.098	0.010
		Top Edge 10mm	0.666	0.141	0.016	0.807	0.682
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000
WCDMA B4	Ant.0	Front Side 10mm	0.511	0.140	0.008	0.651	0.519
		Back Side 10mm	0.480	0.236	0.010	0.716	0.490
		Left Edge 10mm	0.357	0.000	0.000	0.357	0.357
		Right Edge 10mm	0.064	0.098	0.010	0.162	0.074
		Top Edge 10mm	0.000	0.141	0.016	0.141	0.016
		Bottom Edge 10mm	0.720	0.000	0.000	0.720	0.720
WCDMA B5	Ant.1	Front Side 10mm	0.240	0.140	0.008	0.380	0.248
		Back Side 10mm	0.406	0.236	0.010	0.642	0.416
		Left Edge 10mm	0.120	0.000	0.000	0.120	0.120
		Right Edge 10mm	0.000	0.098	0.010	0.098	0.010
		Top Edge 10mm	0.364	0.141	0.016	0.505	0.380
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000
WCDMA B5	Ant.0	Front Side 10mm	0.260	0.140	0.008	0.400	0.268
		Back Side 10mm	0.515	0.236	0.010	0.751	0.525
		Left Edge 10mm	0.037	0.000	0.000	0.037	0.037
		Right Edge 10mm	0.109	0.098	0.010	0.207	0.119
		Top Edge 10mm	0.000	0.141	0.016	0.141	0.016
		Bottom Edge 10mm	0.380	0.000	0.000	0.380	0.380
LTE B2	Ant.1	Front Side 10mm	0.219	0.140	0.008	0.359	0.227
		Back Side 10mm	0.374	0.236	0.010	0.610	0.384
		Left Edge 10mm	0.234	0.000	0.000	0.234	0.234
		Right Edge 10mm	0.000	0.098	0.010	0.098	0.010
		Top Edge 10mm	0.459	0.141	0.016	0.600	0.475
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000
LTE B2	Ant.0	Front Side 10mm	0.202	0.140	0.008	0.342	0.210
		Back Side 10mm	0.354	0.236	0.010	0.590	0.364
		Left Edge 10mm	0.230	0.000	0.000	0.230	0.230
		Right Edge 10mm	0.003	0.098	0.010	0.101	0.013
		Top Edge 10mm	0.000	0.141	0.016	0.141	0.016
		Bottom Edge 10mm	0.434	0.000	0.000	0.434	0.434
LTE B4	Ant.1	Front Side 10mm	0.311	0.140	0.008	0.451	0.319
		Back Side 10mm	0.497	0.236	0.010	0.733	0.507
		Left Edge 10mm	0.225	0.000	0.000	0.225	0.225
		Right Edge 10mm	0.000	0.098	0.010	0.098	0.010
		Top Edge 10mm	0.646	0.141	0.016	0.787	0.662
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000
LTE B4	Ant.0	Front Side 10mm	0.197	0.140	0.008	0.337	0.205



		Back Side 10mm	0.392	0.236	0.010	0.628	0.402
		Left Edge 10mm	0.113	0.000	0.000	0.113	0.113
		Right Edge 10mm	0.027	0.098	0.010	0.125	0.037
		Top Edge 10mm	0.000	0.141	0.016	0.141	0.016
		Bottom Edge 10mm	0.567	0.000	0.000	0.567	0.567
LTE B5	Ant.1	Front Side 10mm	0.203	0.140	0.008	0.343	0.211
		Back Side 10mm	0.301	0.236	0.010	0.537	0.311
		Left Edge 10mm	0.104	0.000	0.000	0.104	0.104
		Right Edge 10mm	0.000	0.098	0.010	0.098	0.010
		Top Edge 10mm	0.281	0.141	0.016	0.422	0.297
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000
LTE B5	Ant.0	Front Side 10mm	0.203	0.140	0.008	0.343	0.211
		Back Side 10mm	0.449	0.236	0.010	0.685	0.459
		Left Edge 10mm	0.011	0.000	0.000	0.011	0.011
		Right Edge 10mm	0.064	0.098	0.010	0.162	0.074
		Top Edge 10mm	0.000	0.141	0.016	0.141	0.016
		Bottom Edge 10mm	0.377	0.000	0.000	0.377	0.377
LTE B7	Ant.1	Front Side 10mm	0.128	0.140	0.008	0.268	0.136
		Back Side 10mm	0.363	0.236	0.010	0.599	0.373
		Left Edge 10mm	0.376	0.000	0.000	0.376	0.376
		Right Edge 10mm	0.000	0.098	0.010	0.098	0.010
		Top Edge 10mm	0.415	0.141	0.016	0.556	0.431
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000
LTE B7	Ant.0	Front Side 10mm	0.235	0.140	0.008	0.375	0.243
		Back Side 10mm	0.379	0.236	0.010	0.615	0.389
		Left Edge 10mm	0.459	0.000	0.000	0.459	0.459
		Right Edge 10mm	0.269	0.098	0.010	0.367	0.279
		Top Edge 10mm	0.000	0.141	0.016	0.141	0.016
		Bottom Edge 10mm	0.603	0.000	0.000	0.603	0.603
LTE B13	Ant.1	Front Side 10mm	0.215	0.140	0.008	0.355	0.223
		Back Side 10mm	0.352	0.236	0.010	0.588	0.362
		Left Edge 10mm	0.102	0.000	0.000	0.102	0.102
		Right Edge 10mm	0.000	0.098	0.010	0.098	0.010
		Top Edge 10mm	0.301	0.141	0.016	0.442	0.317
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000
LTE B13	Ant.0	Front Side 10mm	0.224	0.140	0.008	0.364	0.232
		Back Side 10mm	0.394	0.236	0.010	0.630	0.404
		Left Edge 10mm	0.056	0.000	0.000	0.056	0.056
		Right Edge 10mm	0.109	0.098	0.010	0.207	0.119
		Top Edge 10mm	0.000	0.141	0.016	0.141	0.016
		Bottom Edge 10mm	0.344	0.000	0.000	0.344	0.344
LTE B26	Ant.1	Front Side 10mm	0.283	0.140	0.008	0.423	0.291
		Back Side 10mm	0.423	0.236	0.010	0.659	0.433

		Left Edge 10mm	0.138	0.000	0.000	0.138	0.138
		Right Edge 10mm	0.000	0.098	0.010	0.098	0.010
		Top Edge 10mm	0.305	0.141	0.016	0.446	0.321
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000
LTE B26	Ant.0	Front Side 10mm	0.195	0.140	0.008	0.335	0.203
		Back Side 10mm	0.447	0.236	0.010	0.683	0.457
		Left Edge 10mm	0.012	0.000	0.000	0.012	0.012
		Right Edge 10mm	0.067	0.098	0.010	0.165	0.077
		Top Edge 10mm	0.000	0.141	0.016	0.141	0.016
		Bottom Edge 10mm	0.252	0.000	0.000	0.252	0.252
LTE B66	Ant.1	Front Side 10mm	0.297	0.140	0.008	0.437	0.305
		Back Side 10mm	0.419	0.236	0.010	0.655	0.429
		Left Edge 10mm	0.236	0.000	0.000	0.236	0.236
		Right Edge 10mm	0.000	0.098	0.010	0.098	0.010
		Top Edge 10mm	0.643	0.141	0.016	0.784	0.659
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000
LTE B66	Ant.0	Front Side 10mm	0.162	0.140	0.008	0.302	0.170
		Back Side 10mm	0.310	0.236	0.010	0.546	0.320
		Left Edge 10mm	0.116	0.000	0.000	0.116	0.116
		Right Edge 10mm	0.017	0.098	0.010	0.115	0.027
		Top Edge 10mm	0.000	0.141	0.016	0.141	0.016
		Bottom Edge 10mm	0.493	0.000	0.000	0.493	0.493
LTE B38	Ant.1	Front Side 10mm	0.136	0.140	0.008	0.276	0.144
		Back Side 10mm	0.431	0.236	0.010	0.667	0.441
		Left Edge 10mm	0.340	0.000	0.000	0.340	0.340
		Right Edge 10mm	0.000	0.098	0.010	0.098	0.010
		Top Edge 10mm	0.449	0.141	0.016	0.590	0.465
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000
LTE B38	Ant.0	Front Side 10mm	0.118	0.140	0.008	0.258	0.126
		Back Side 10mm	0.152	0.236	0.010	0.388	0.162
		Left Edge 10mm	0.182	0.000	0.000	0.182	0.182
		Right Edge 10mm	0.069	0.098	0.010	0.167	0.079
		Top Edge 10mm	0.000	0.141	0.016	0.141	0.016
		Bottom Edge 10mm	0.301	0.000	0.000	0.301	0.301
LTE B41	Ant.1	Front Side 10mm	0.151	0.140	0.008	0.291	0.159
		Back Side 10mm	0.480	0.236	0.010	0.716	0.490
		Left Edge 10mm	0.310	0.000	0.000	0.310	0.310
		Right Edge 10mm	0.000	0.098	0.010	0.098	0.010
		Top Edge 10mm	0.518	0.141	0.016	0.659	0.534
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000
LTE B41	Ant.0	Front Side 10mm	0.098	0.140	0.008	0.238	0.106
		Back Side 10mm	0.127	0.236	0.010	0.363	0.137
		Left Edge 10mm	0.155	0.000	0.000	0.155	0.155

		Right Edge 10mm	0.059	0.098	0.010	0.157	0.069
		Top Edge 10mm	0.000	0.141	0.016	0.141	0.016
		Bottom Edge 10mm	0.200	0.000	0.000	0.200	0.200

## Note:

1: The highest Summed 1g SAR is 0.823 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

## 14 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	DASY6	16.0.0.116	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
E-Field Probe	Speag	EX3DV4	SN: 7607	2023/07/04	2024/07/04
Data Acquisition Electronicsr	Speag	DAE4	SN: 878	2023/03/23	2024/03/23
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	EF5238001628	2023/10/09	2024/10/09
Thermometer	Elitech	RC-4HC	EF7239002652	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: 1859	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 aDAK3.5 Dielectric Probe Kit.

Head Liquid

Date	Liquid Type	Fre. (MHz)	Temp. (°C)	Meas. Conductivity ( $\sigma$ ) (S/m)	Meas. Permittivity ( $\epsilon$ )	Target Conductivity ( $\sigma$ ) (S/m)	Target Permittivity ( $\epsilon$ )	Conductivity Tolerance (%)	Permittivity Tolerance (%)
2024.02.27	Head	750	21.2	0.88	43.11	0.89	41.94	-1.57	2.79
2024.02.28	Head	835	21.3	0.88	41.49	0.90	41.50	-2.33	-0.03
2024.03.01	Head	1750	21.3	1.38	40.39	1.37	40.08	1.02	0.78
2024.02.27	Head	1750	21.2	1.38	38.89	1.37	40.08	0.66	-2.97
2024.03.02	Head	1900	21.7	1.40	39.74	1.40	40.00	-0.14	-0.64
2024.03.04	Head	2450	21.4	1.83	38.77	1.80	39.20	1.50	-1.09
2024.03.05	Head	2600	21.3	1.97	38.19	1.96	39.01	0.41	-2.09
2024.03.06	Head	2600	21.5	2.01	39.41	1.96	39.01	2.55	1.02

Note: The tolerance limit of Conductivity and Permittivity is  $\pm 5\%$ .

## ANNEX B SYSTEM CHECK RESULT

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

Head liquid 1g

Date	Liquid Type	Freq. (MHz)	Power (mW)	Measured SAR(W/kg)	Normalized SAR (W/kg)	DipoleSAR (W/kg)	Tolerance (%)
2024.02.27	Head	750	100	0.86	8.62	8.29	3.98
2024.02.28	Head	835	100	0.99	9.88	9.76	1.23
2024.03.01	Head	1750	100	3.77	37.70	36.70	2.72
2024.03.02	Head	1900	100	4.14	41.40	40.30	2.73
2024.03.03	Head	1900	100	4.08	40.80	40.30	1.24
2024.03.04	Head	2450	100	5.22	52.20	53.00	-1.51
2024.03.05	Head	2600	100	5.70	57.00	56.80	0.35
2024.03.06	Head	2600	100	5.61	56.10	56.80	-1.23

Note: The tolerance limit of System validation  $\pm 10\%$ .

## Head liquid 10g

Date	Freq. (MHz)	Power (mW)	Measured SAR(W/kg)	Normalized SAR (W/kg)	DipoleSAR (W/kg)	Tolerance (%)
2024.03.01	1750	100	1.970	19.70	19.10	3.14
2024.03.05	2600	100	2.410	24.10	24.80	-2.82
2024.03.06	2600	100	2.460	24.60	24.80	-0.81

**Note:** The tolerance limit of System validation  $\pm 10\%$ .

# System Performance Check Data (750MHz)

## Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
CD750V2, SPEAG	10.0 x 10.0 x 3.0	Dipole

## Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		CD700	CW, 0--	750.0, 100	10.31	0.876	43.1	22.1	21.2

## Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-02-27	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

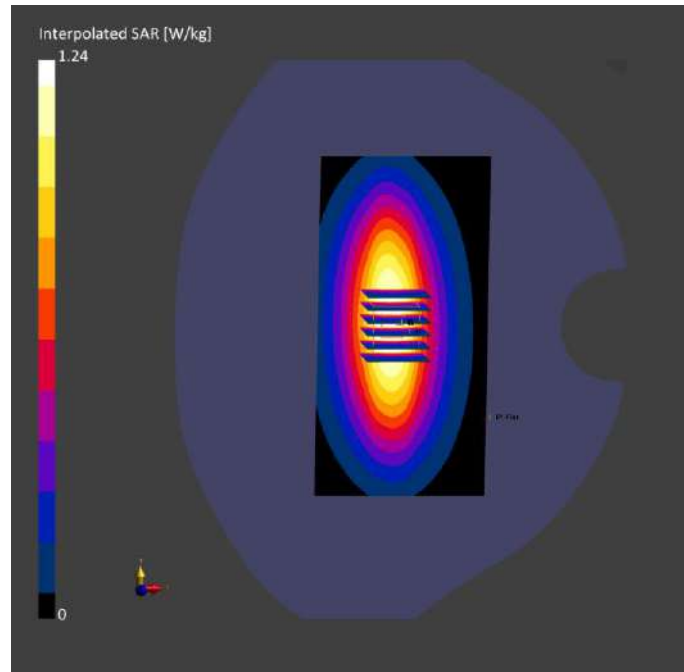
## Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 160.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

## Measurement Results

	Area Scan	Zoom Scan
Date	2024-02-27	2024-02-27
psSAR1g [W/kg]	0.844	0.862
psSAR10g [W/kg]	0.566	0.571
Power Drift [dB]	-0.04	-0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		87.2
Dist 3dB Peak [mm]		20.1





# System Performance Check Data (835MHz)

## Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
CD835V2, SPEAG	10.0 x 10.0 x 3.0	Dipole

## Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		CD835	CW, 0--	835.0, 50	9.96	0.879	41.5	22.4	21.3

## Hardware Setup

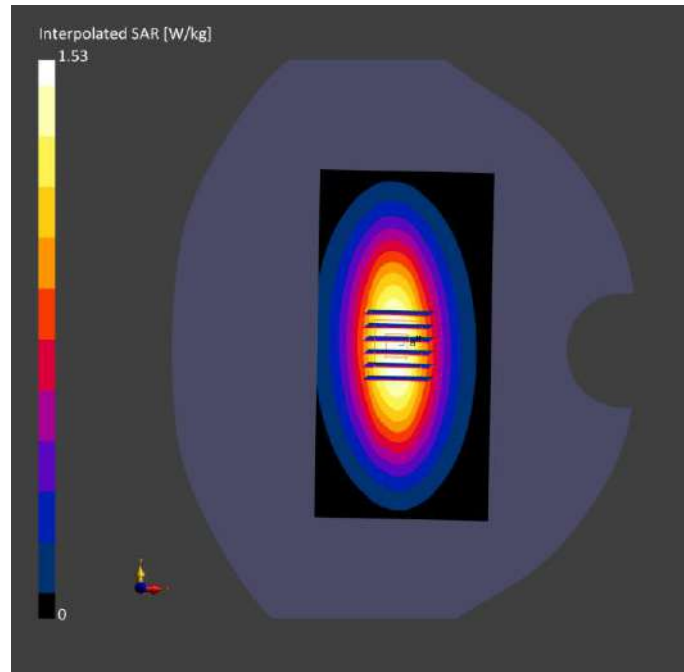
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-02-28	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

## Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 160.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

## Measurement Results

	Area Scan	Zoom Scan
Date	2024-02-28	2024-02-28
psSAR1g [W/kg]	1.01	0.988
psSAR10g [W/kg]	0.651	0.644
Power Drift [dB]	-0.04	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		84.3
Dist 3dB Peak [mm]		13.1



# System Performance Check Data (835MHz)

## Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
CD835V2, SPEAG	10.0 x 10.0 x 3.0	Dipole

## Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		CD835	CW, 0--	835.0, 50	9.96	0.899	40.4	22.2	21.5

## Hardware Setup

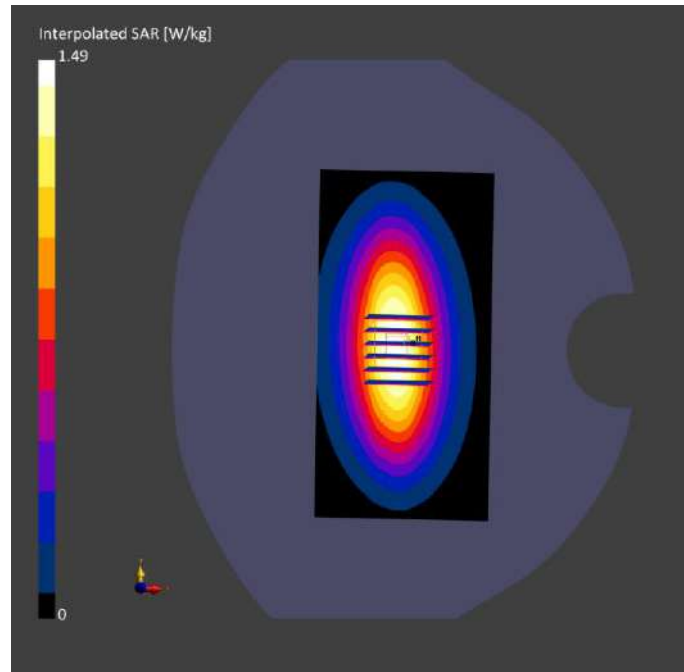
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-02-29	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

## Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 160.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

## Measurement Results

	Area Scan	Zoom Scan
Date	2024-02-29	2024-02-29
psSAR1g [W/kg]	0.974	0.978
psSAR10g [W/kg]	0.635	0.639
Power Drift [dB]	-0.11	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		85.8
Dist 3dB Peak [mm]		13.1



# System Performance Check Data (1750MHz)

## Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D1750V2, SPEAG	10.0 x 10.0 x 3.0	Dipole

## Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		D1750	CW, 0--	1750.0, 50	8.52	1.38	40.4	22.3	21.3

## Hardware Setup

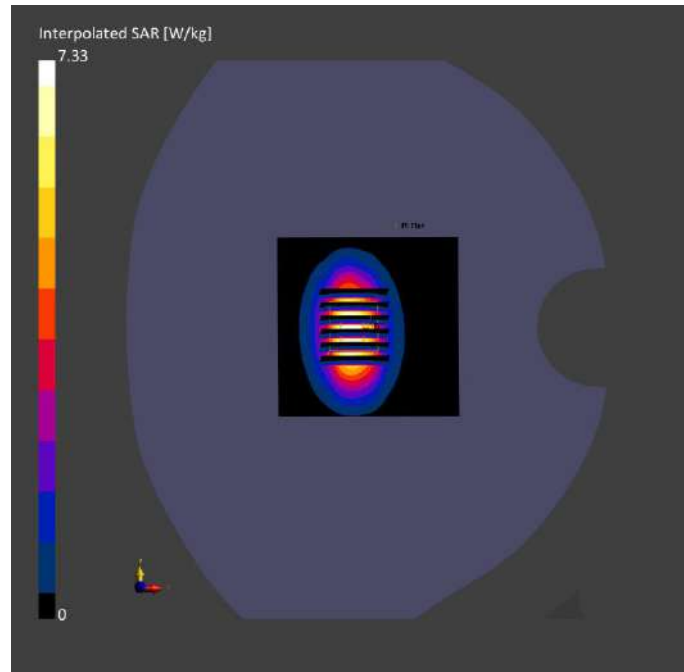
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-03-01	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

## Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

## Measurement Results

	Area Scan	Zoom Scan
Date	2024-03-01	2024-03-01
psSAR1g [W/kg]	3.85	3.77
psSAR10g [W/kg]	2.14	1.97
Power Drift [dB]	-0.02	-0.08
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		82.5
Dist 3dB Peak [mm]		9.2



# System Performance Check Data (1750MHz)

## Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D1750V2, SPEAG	10.0 x 10.0 x 3.0	Dipole

## Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		D1750	CW, 0--	1750.0, 50	8.52	1.38	38.9	22.1	21.2

## Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-02-27	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

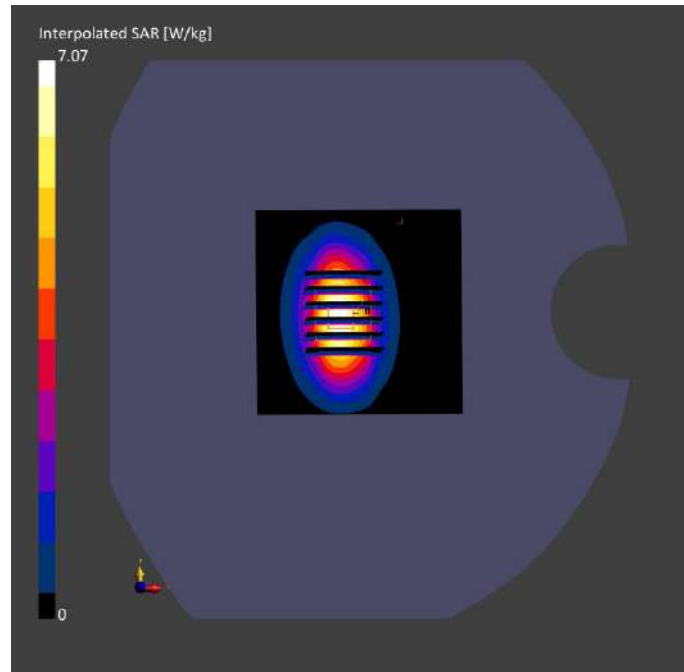
## Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

## Measurement Results

	Area Scan	Zoom Scan
Date	2024-02-27	2024-02-27
psSAR1g [W/kg]	3.61	3.73
psSAR10g [W/kg]	2.18	1.92
Power Drift [dB]	-0.02	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.6
Dist 3dB Peak [mm]		10.6





# System Performance Check Data (1900MHz)

## Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D1900V2, SPEAG	10.0 x 10.0 x 3.0	Dipole

## Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		D1900	CW, 0--	1900.0, 50	7.98	1.40	39.7	22.1	21.7

## Hardware Setup

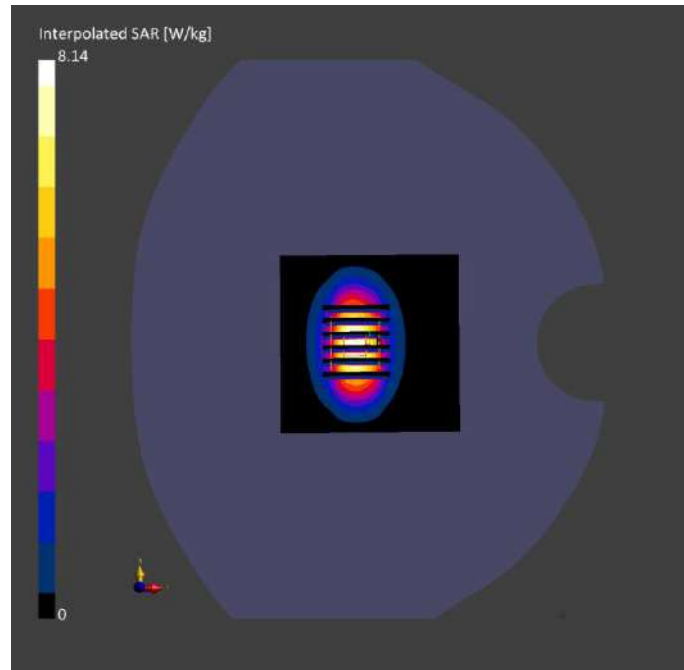
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-03-02	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

## Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

## Measurement Results

	Area Scan	Zoom Scan
Date	2024-03-02	2024-03-02
psSAR1g [W/kg]	4.22	4.14
psSAR10g [W/kg]	2.23	2.09
Power Drift [dB]	-0.11	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.4
Dist 3dB Peak [mm]		9.1



# System Performance Check Data (1900MHz)

## Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D1900V2, SPEAG	10.0 x 10.0 x 3.0	Dipole

## Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		D1900	CW, 0--	1900.0, 50	7.98	1.39	39.0	22.2	21.5

## Hardware Setup

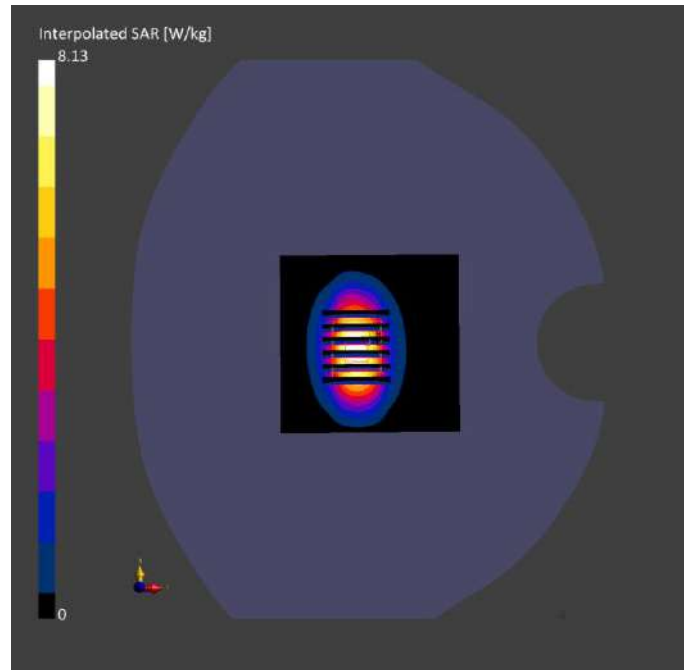
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-03-03	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

## Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

## Measurement Results

	Area Scan	Zoom Scan
Date	2024-03-03	2024-03-03
psSAR1g [W/kg]	4.14	4.08
psSAR10g [W/kg]	2.15	2.01
Power Drift [dB]	-0.04	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.2
Dist 3dB Peak [mm]		9.4



# System Performance Check Data (2450MHz)

## Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D2450V2, SPEAG	40.0 x 8.0 x 8.0	Dipole

## Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		D2450	CW, 0--	2450.0, 50	7.47	1.83	38.8	22.5	21.4

## Hardware Setup

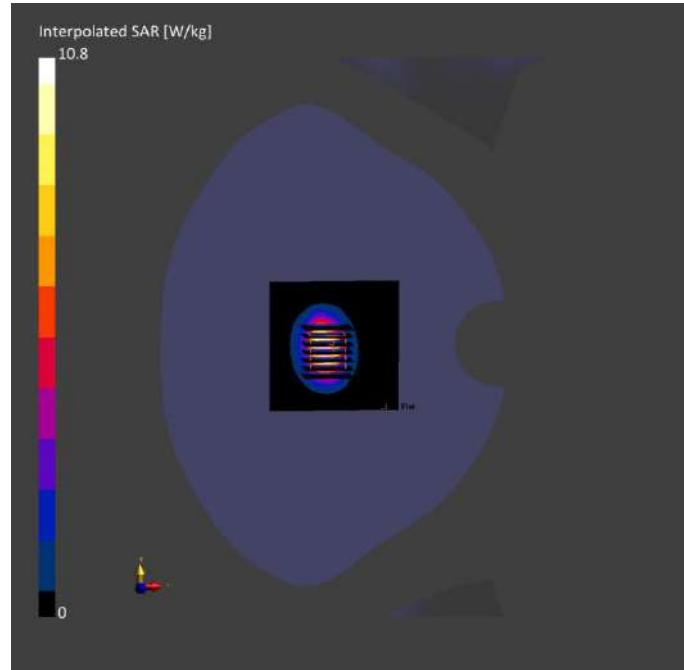
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt)- 1859	HBBL-600-10000 2024-03-04	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

## Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

## Measurement Results

	Area Scan	Zoom Scan
Date	2024-03-04	2024-03-04
psSAR1g [W/kg]	5.32	5.22
psSAR10g [W/kg]	2.44	2.35
Power Drift [dB]	-0.07	-0.15
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.1
Dist 3dB Peak [mm]		9.1



# System Performance Check Data (2600MHz)

## Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
CD2600V3, SPEAG	10.0 x 10.0 x 3.0	Dipole

## Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		CD2600 V3	CW, 0--	2600.0, 50	7.41	1.97	38.2	22.4	21.3

## Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-03-05	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

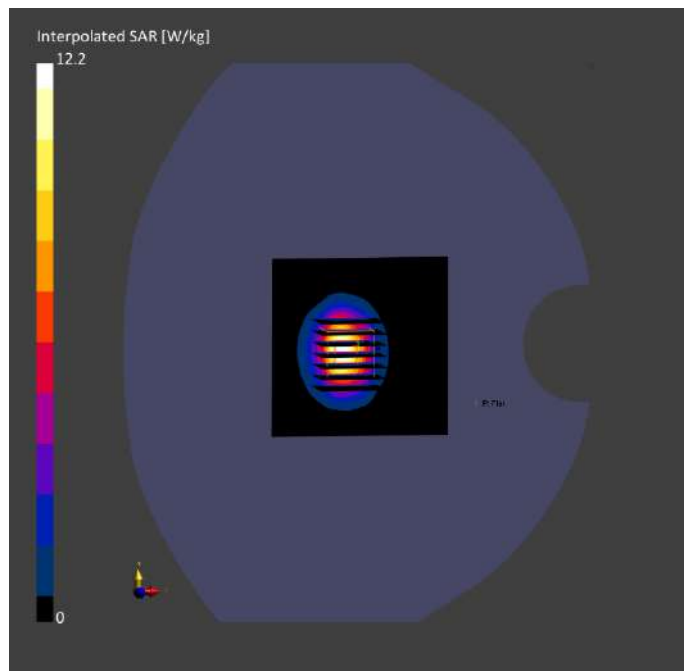
## Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

## Measurement Results

	Area Scan	Zoom Scan
Date	2024-03-05	2024-03-05
psSAR1g [W/kg]	5.71	5.7
psSAR10g [W/kg]	2.35	2.41
Power Drift [dB]	0.01	-0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.4
Dist 3dB Peak [mm]		9.3





# System Performance Check Data (2600MHz)

## Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
CD2600V2, SPEAG	10.0 x 10.0 x 3.0	Dipole

## Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		CD2600 V2	CW, 0--	2600.0, 50	7.41	2.01	39.4	22.2	21.5

## Hardware Setup

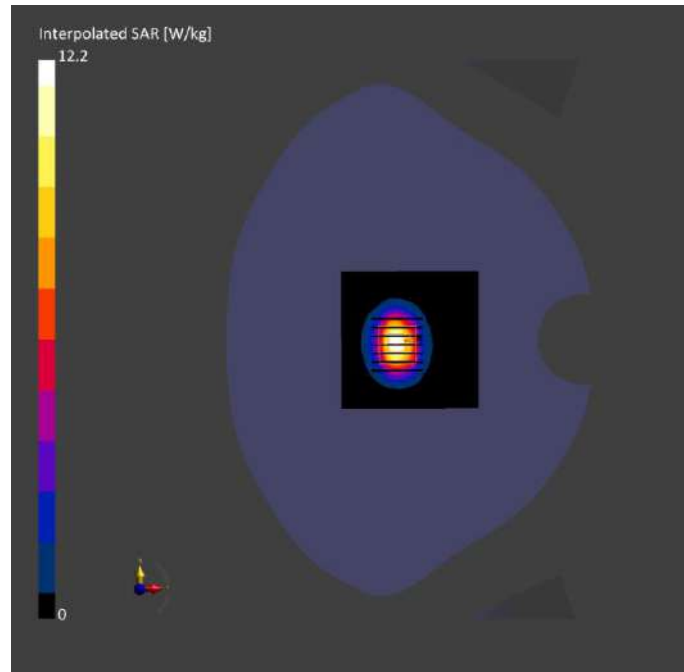
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-03-06	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

## Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

## Measurement Results

	Area Scan	Zoom Scan
Date	2024-03-06	2024-03-06
psSAR1g [W/kg]	5.38	5.61
psSAR10g [W/kg]	2.22	2.46
Power Drift [dB]	0.05	0.07
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		82.3
Dist 3dB Peak [mm]		10.1



# ANNEX C TEST DATA

## Meas.1 Right Head with Cheek on High Channel in GPRS8504slots mode with Antenna 1

### Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
C3L2	165.0 x 75.0 x 8.0	Phone

### Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Right Head, HSL	CHEEK, 0.00	GSM 850	GSM, 10021-DA C	848.8, 251	9.96	0.94	40.3	22.4	21.3

### Hardware Setup

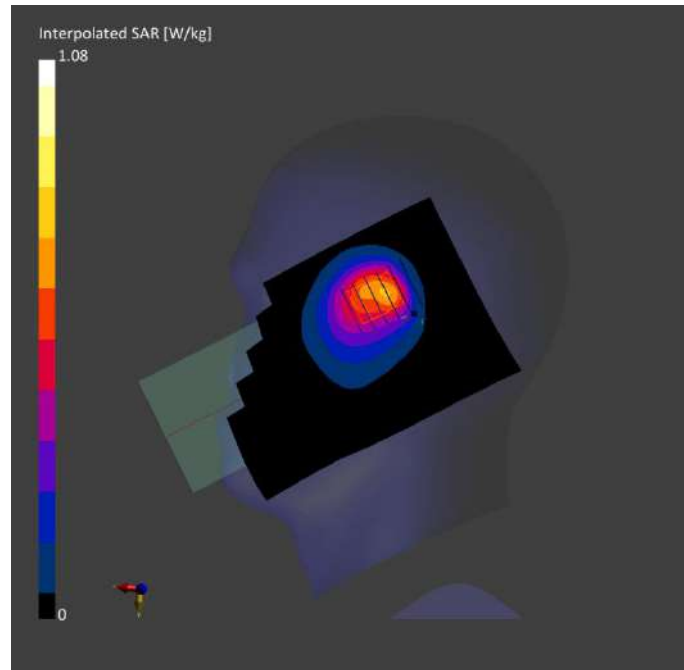
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	BBL-600-10000 2024-02-28	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

### Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

### Measurement Results

	Area Scan	Zoom Scan
Date	2024-02-28	2024-02-28
psSAR1g [W/kg]	0.616	0.576
psSAR10g [W/kg]	0.400	0.367
Power Drift [dB]	-0.00	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		53.2
Dist 3dB Peak [mm]		9.3



**Meas.2 Body Plan with Back Side 10mm on Middle Channel in GPRS850 4Slots modewith Antenna 0 Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
C3L2	165.0 x 75.0 x 8.0	Phone

**Exposure Conditions**

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 10.00	GSM 850	GSM, 10021-DA C	836.6, 190	9.96	0.91	40.6	22.4	21.3

**Hardware Setup**

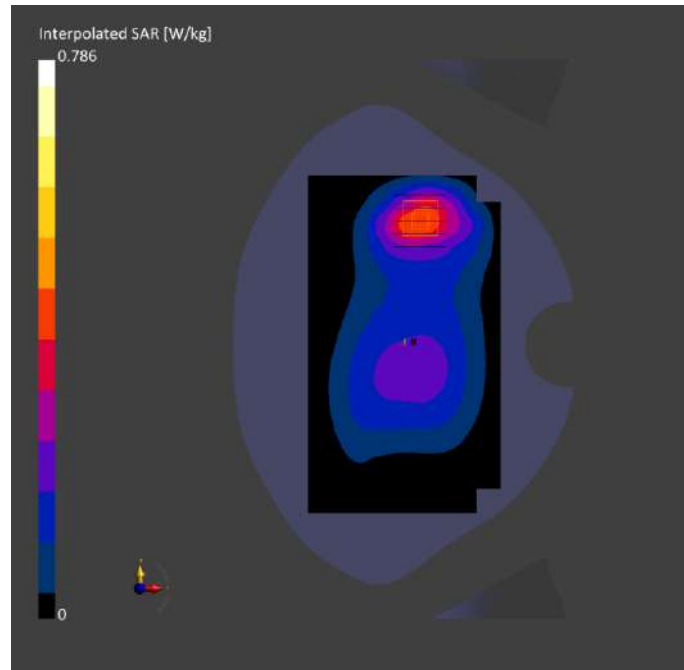
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-02-28	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-02-28	2024-02-28
psSAR1g [W/kg]	0.398	0.437
psSAR10g [W/kg]	0.260	0.252
Power Drift [dB]	0.00	0.00
Power Scaling Factor	Disabled	Disabled
TSL Correction [dB]	No correction	No correction
M2/M1 [%]		54.4
Dist 3dB Peak [mm]		11.3



**Meas.3 Right Head with Cheek on Low Channel in GPRS19001slots mode with Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
C3L2	165.0 x 75.0 x 8.0	Phone

**Exposure Conditions**

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Right Head, HSL	CHEEK, 0.00	PCS 1900	GSM, 10021-DA C	1850.2, 512	7.98	1.36	39.7	22.2	21.5

**Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-03-03	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

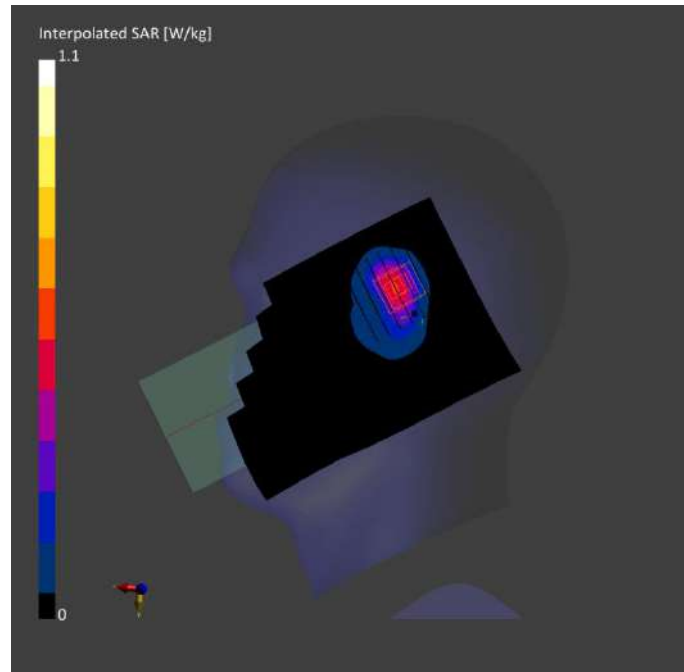
**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA Surface	N/A	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-03-03	2024-03-03
psSAR1g [W/kg]	0.449	0.572
psSAR10g [W/kg]	0.240	0.263
Power Drift [dB]	-0.00	0.06
Power Scaling Factor	Disabled	Disabled
TSL Correction [dB]	No correction	No correction
M2/M1 [%]		56.1
Dist 3dB Peak [mm]		8.0





**Meas.4 Body Plan with TopEdge 10mm on High Channel in GPRS1900 1Slots modewith Antenna 0  
Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
C3L2	165.0 x 75.0 x 8.0	Phone

**Exposure Conditions**

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE, TOP, 0.00	PCS, 1900	GSM, 10021-DA, C	1850.2, 512	7.98	1.36	39.7	22.2	21.5

**Hardware Setup**

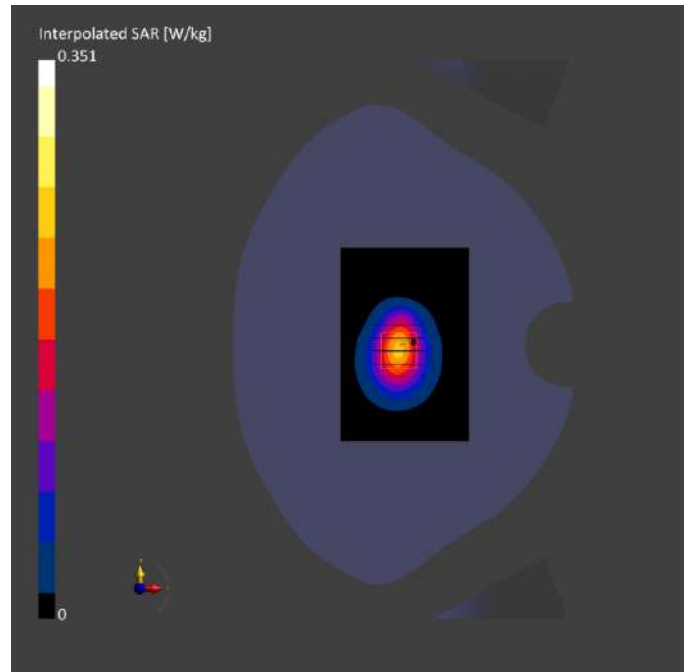
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HHBBL-600-10000 2024-03-03	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	8.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA Surface	N/A	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-03-03	2024-03-03
psSAR1g [W/kg]	0.302	0.325
psSAR10g [W/kg]	0.171	0.182
Power Drift [dB]	0.03	0.00
Power Scaling Factor	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]		57.3
Dist 3dB Peak [mm]		13.7



**Meas.5 Right Head with Tilt on Low Channel in WCDMA Band2 mode with Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
C3L2	165.0 x 75.0 x 8.0	Phone

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
RightHead, HSL	TILT, 0.00	Band 2	WCDMA, 10011-CA	1852.4, 9262	7.98	1.35	41.0	22.1	21.7

**Hardware Setup**

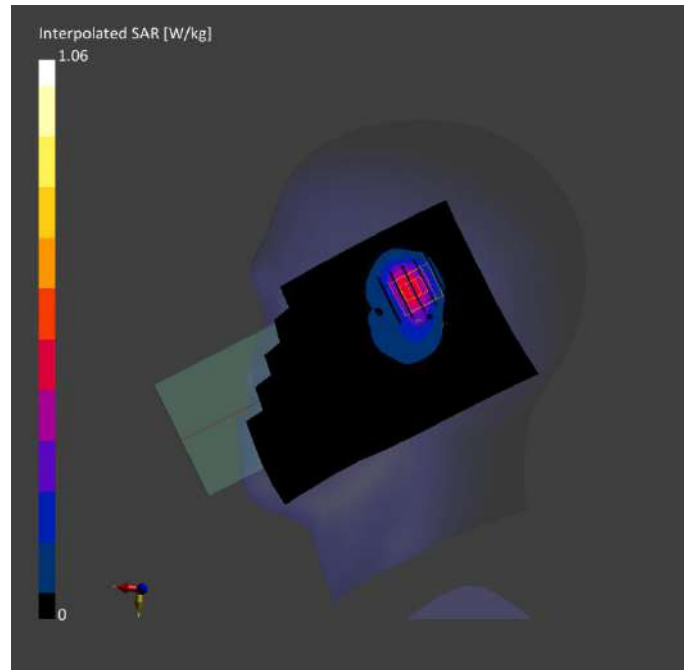
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-03-02	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-03-02	2024-03-02
psSAR1g [W/kg]	0.420	0.541
psSAR10g [W/kg]	0.227	0.251
Power Drift [dB]	0.04	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		47.1
Dist 3dB Peak [mm]		6.4



**Meas.6 Body Plan with TopEdge 10mm on High Channel in WCDMA Band2 modewith Antenna 1  
Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
C3L2	165.0 x 75.0 x 8.0	Phone

**Exposure Conditions**

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE, TOP, 10.00	Band 2	WCDMA, 10011-CA C	1907.6, 9538	7.98	1.40	38.8	22.1	21.7

**Hardware Setup**

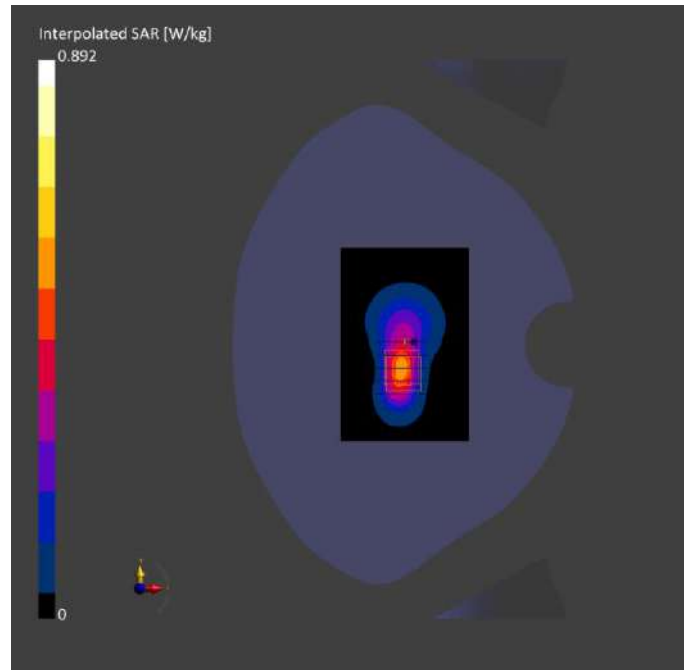
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-03-02	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	8.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-03-02	2024-03-02
psSAR1g [W/kg]	0.451	0.482
psSAR10g [W/kg]	0.227	0.243
Power Drift [dB]	-0.03	0.01
Power Scaling Factor	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]		53.6
Dist 3dB Peak [mm]		8.0



## Meas.7 Right Head with Cheek on High Channel in WCDMA Band4 mode with Antenna 1

### Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
C3L2	165.0 x 75.0 x 8.0	Phone

### Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
RightHead, HSL	CHEEK, 0.00	Band 4	WCDMA, 10011-CA	1752.6, 1513	8.52	1.40	39.5	22.3	21.3

### Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-100002024-03-01	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

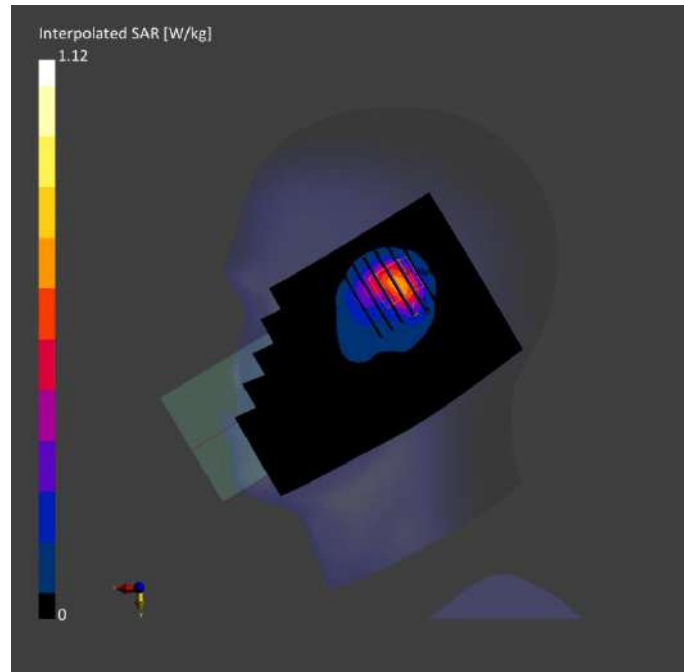
### Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

### Measurement Results

	Area Scan	Zoom Scan
Date	2024-03-01	2024-03-01
psSAR1g [W/kg]	0.575	0.590
psSAR10g [W/kg]	0.314	0.292
Power Drift [dB]	0.04	-0.00
Power Scaling Factor	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]		54.3
Dist 3dB Peak [mm]		7.2





**Meas.8 Body Plan with BottomEdge 10mm on Low Channel in WCDMA Band4 modewith Antenna 0 Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
C3L2	165.0 x 75.0 x 8.0	Phone

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE, BOTTOM, 10.00	Band 4	WCDMA, 10011-CA, C	1732.4, 1412	8.52	1.33	41.3	22.3	21.3

**Hardware Setup**

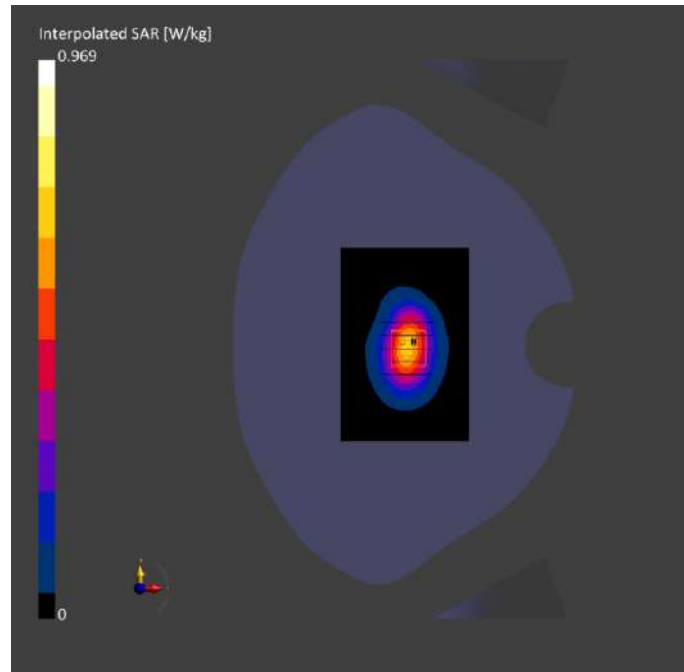
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-03-01	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	8.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-03-01	2024-03-01
psSAR1g [W/kg]	0.560	0.576
psSAR10g [W/kg]	0.312	0.327
Power Drift [dB]	-0.00	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		58.9
Dist 3dB Peak [mm]		12.8



**Meas.9 Body Plan with BottomEdge 0mm on Low Channel in WCDMA Band4 modewith Antenna 0 Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
C3L2	165.0 x 75.0 x 8.0	Phone

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE, BOTTOM, 0.00	Band 4	WCDMA, 10011-CA, C	1712.4, 1312	8.52	1.31	41.4	22.3	21.3

**Hardware Setup**

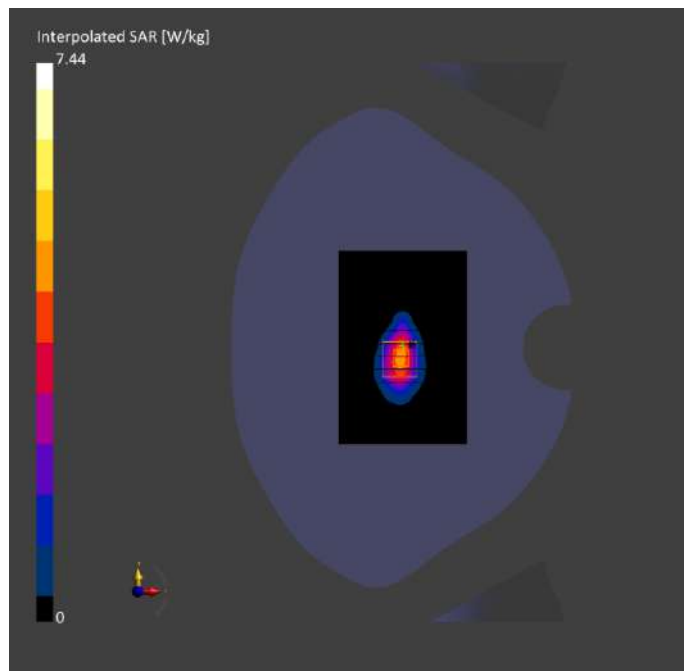
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-03-01	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	8.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-03-01	2024-03-01
psSAR1g [W/kg]	3.76	3.74
psSAR10g [W/kg]	1.83	1.79
Power Drift [dB]	-0.01	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		43.3
Dist 3dB Peak [mm]		6.4



## Meas.10 Right Head with Cheek on High Channel in WCDMABand5 mode with Antenna 1

### Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
C3L2	165.0 x 75.0 x 8.0	Phone

### Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
RightHead, HSL	CHEEK, 0.00	Band 5	WCDMA, 10011-CA	836.4, 4182	9.96	0.89	41.0	22.4	21.3

### Hardware Setup

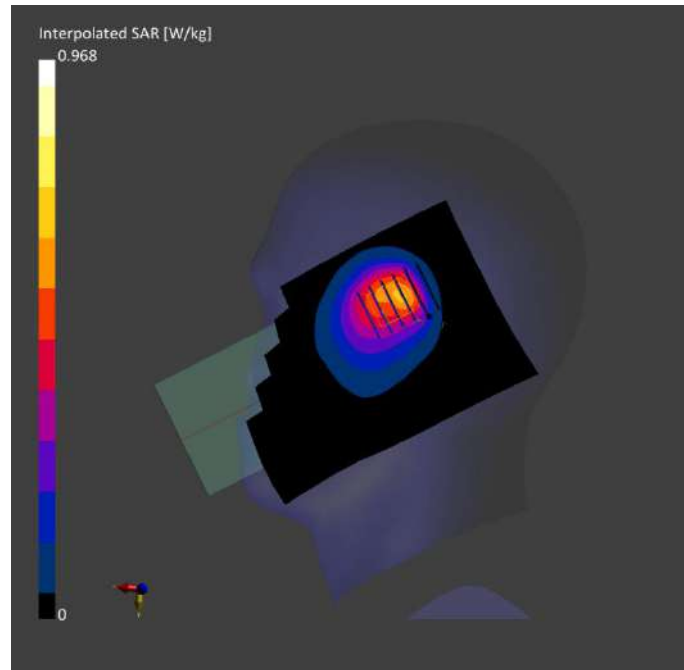
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-02-28	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

### Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

### Measurement Results

	Area Scan	Zoom Scan
Date	2024-02-28	2024-02-28
psSAR1g [W/kg]	0.566	0.528
psSAR10g [W/kg]	0.367	0.342
Power Drift [dB]	0.01	0.02
Power Scaling Factor	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]		56.7
Dist 3dB Peak [mm]		9.6



**Meas.11 Body Plan with BackSide 10mm on Middle Channel in WCDMA Band5 modewith Antenna 0  
Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
C3L2	165.0 x 75.0 x 8.0	Phone

**Exposure Conditions**

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 10.00	Band 5	WCDMA, 10011-CA	836.4, 4182	9.96	0.892	41.0	22.4	21.3

**Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-02-28	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

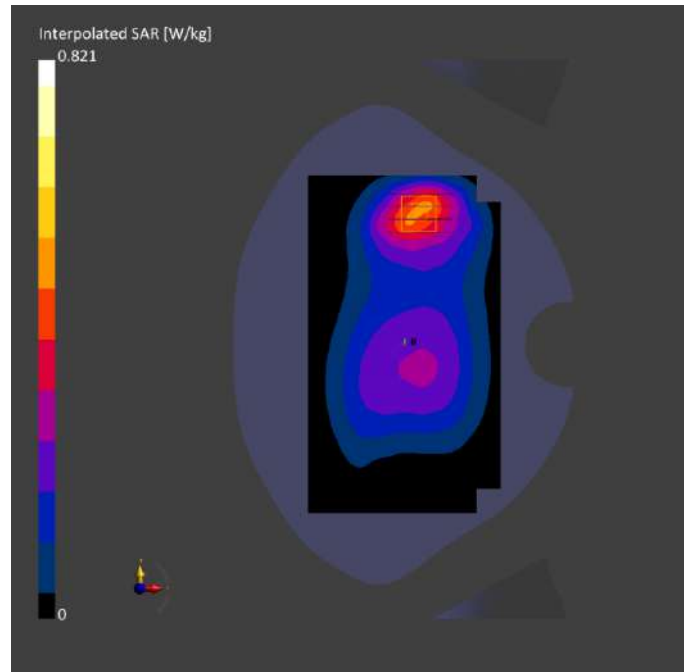
**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA Surface	N/A	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-02-28	2024-02-28
psSAR1g [W/kg]	0.433	0.477
psSAR10g [W/kg]	0.289	0.285
Power Drift [dB]	-0.01	-0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		54.3
Dist 3dB Peak [mm]		12.8





**Meas.12 Right Head with Cheek on High Channel in LTEBand2 mode with Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
C3L2	165.0 x 75.0 x 8.0	Phone

**Exposure Conditions**

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Right Head, HSL	TILT, 0.00	Band 2	LTE-FDD, 10169-CA	1900.0, 19100	7.98	1.40	39.7	22.1	21.7

**Hardware Setup**

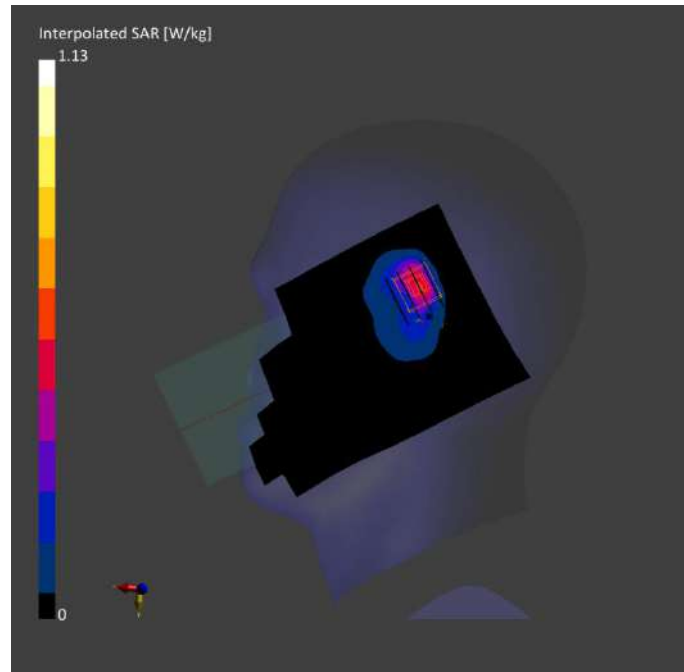
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-03-02	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA Surface	N/A	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-03-02	2024-03-02
psSAR1g [W/kg]	0.446	0.574
psSAR10g [W/kg]	0.224	0.264
Power Drift [dB]	0.09	-0.01
Power Scaling Factor	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]		51.3
Dist 3dB Peak [mm]		6.4



**Meas.13 Body Plan with TopEdge10mm on High Channel in LTE Band2 modewith Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
C3L2	165.0 x 75.0 x 8.0	Phone

**Exposure Conditions**

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE, TOP, 10.00	Band 2	LTE -FDD, 10169-CA F	1900.0, 19100	7.98	1.40	39.7	22.1	21.7

**Hardware Setup**

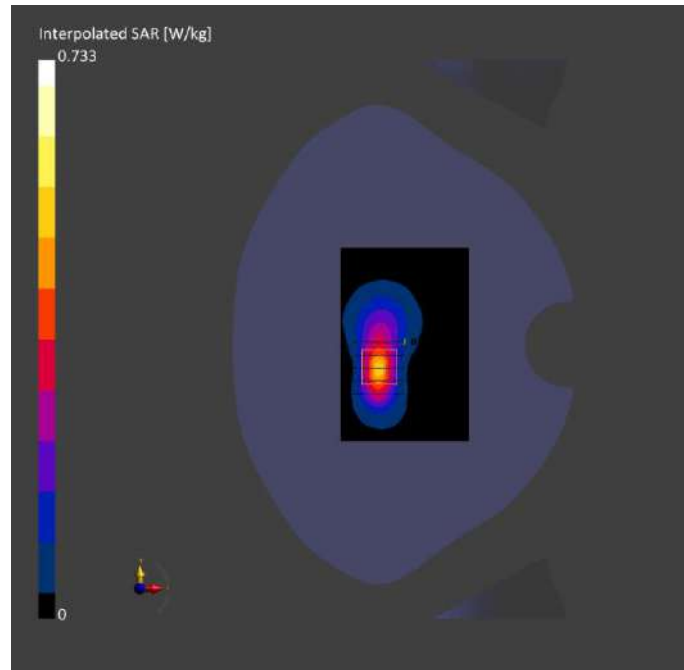
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-03-02	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA Surface	N/A	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-03-02	2024-03-02
psSAR1g [W/kg]	0.402	0.395
psSAR10g [W/kg]	0.198	0.198
Power Drift [dB]	0.19	-0.16
Power Scaling Factor	Disabled	Disabled
TSL Correction [dB]	No correction	No correction
M2/M1 [%]		53.7
Dist 3dB Peak [mm]		9.6



## Meas.14 Right Head with Cheek on High Channel in LTEBand4 mode with Antenna 1

### Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
C3L2	165.0 x 75.0 x 8.0	Phone

### Exposure Conditions

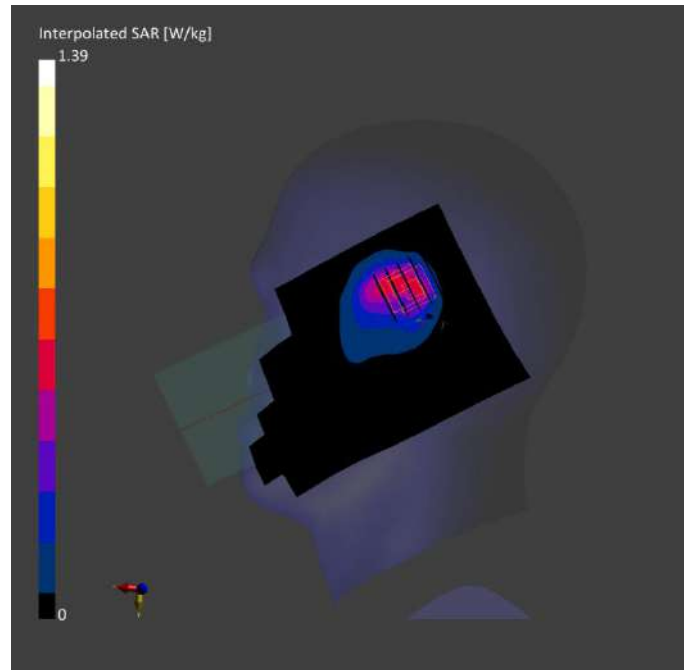
Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
RightHead, HSL	CHEEK, 0.00	Band 4	LTE-FDD, 10169-CA	1732.5, 20175	8.52	1.36	41.0	22.3	21.3
			F						

### Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-03-01	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

### Scan Setup

		Area Scan	Zoom Scan			Area Scan	Zoom Scan
Grid Extents [mm]		120.0 x 210.0	32.0 x 32.0 x 30.0	Date		2024-03-01	2024-03-01
Grid Steps [mm]		15.0 x 15.0	8.0 x 8.0 x 5.0	psSAR1g [W/kg]		0.507	0.525
Sensor Surface [mm]		3.0	1.4	psSAR10g [W/kg]		0.303	0.314
Graded Grid		Yes	Yes	Power Drift [dB]		-0.01	0.01
Grading Ratio		1.5	1.5	Power Scaling		Disabled	Disabled
MAIA		N/A	N/A	Scaling Factor [dB]			
Surface Detection		VMS + 6p	VMS + 6p	TSL Correction		No correction	No correction
Scan Method		Measured	Measured	M2/M1 [%]			47.2
				Dist 3dB Peak [mm]			8.0



**Meas.15 Body Plan with TopEdge10mm on Middle Channel in LTE Band4 modewith Antenna 1  
Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
C3L2	165.0 x 75.0 x 8.0	Phone

**Exposure Conditions**

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE, TOP, 10.00	Band 4	LTE-FDD, 10169-CA F	1745.0, 20300	8.52	1.37	40.7	22.3	21.3

**Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-03-01	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

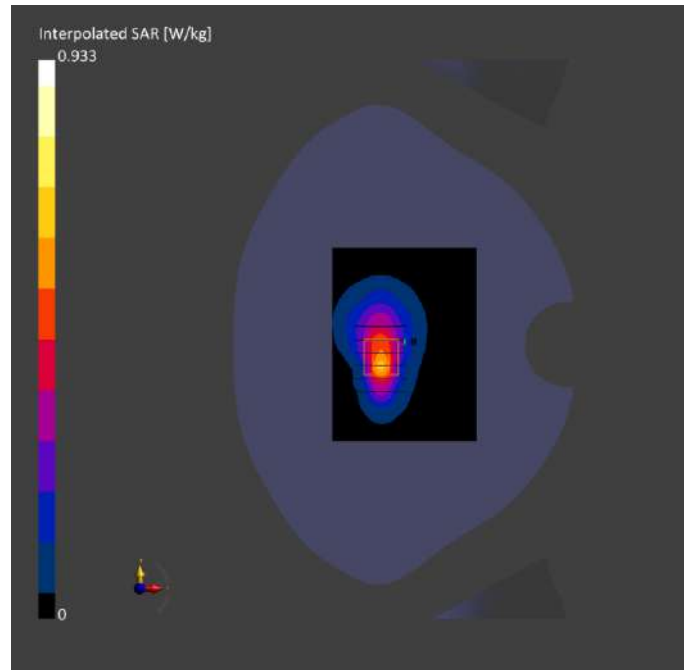
**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA Surface	N/A	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-03-01	2024-03-01
psSAR1g [W/kg]	0.504	0.525
psSAR10g [W/kg]	0.264	0.281
Power Drift [dB]	0.01	0.01
Power Scaling Factor	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]		56.1
Dist 3dB Peak [mm]		9.3





**Meas.16 Right Head with Cheek on Middle Channel in LTEBand5 mode with Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
C3L2	165.0 x 75.0 x 8.0	Phone

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
RightHead, HSL	CHEEK, 0.00	Band 5	LTE-FDD, 10175-CA	836.5, 20525	9.96	0.91	40.4	22.2	21.5

**Hardware Setup**

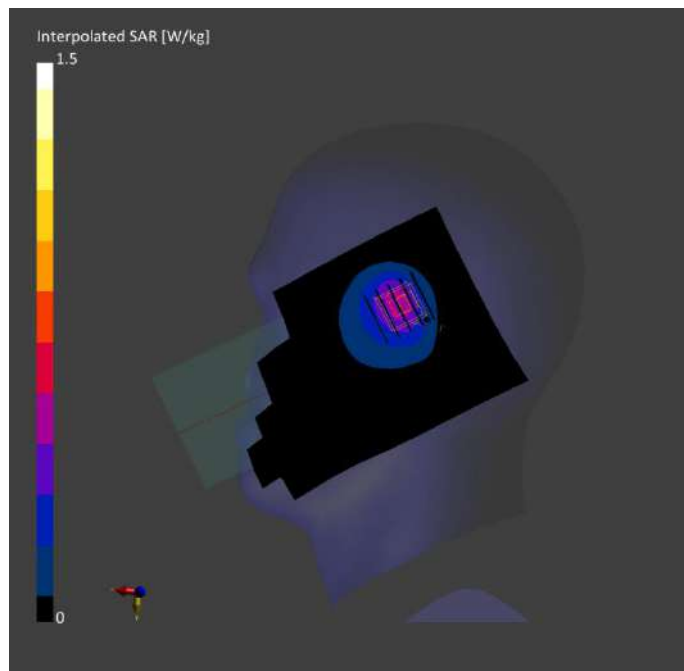
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-02-29	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-02-29	2024-02-29
psSAR1g [W/kg]	0.506	0.581
psSAR10g [W/kg]	0.313	0.296
Power Drift [dB]	-0.09	0.11
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		31.6
Dist 3dB Peak [mm]		6.4



**Meas.17 Body Plan with BackSide 10mm on Middle Channel in LTE Band5 modewith Antenna 0**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
C3L2	165.0 x 75.0 x 8.0	Phone

**Exposure Conditions**

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 10.00	Band 5	LTE-FDD, 10175-CA	836.5, 20525	9.96	0.914	40.4	22.2	21.5

**Hardware Setup**

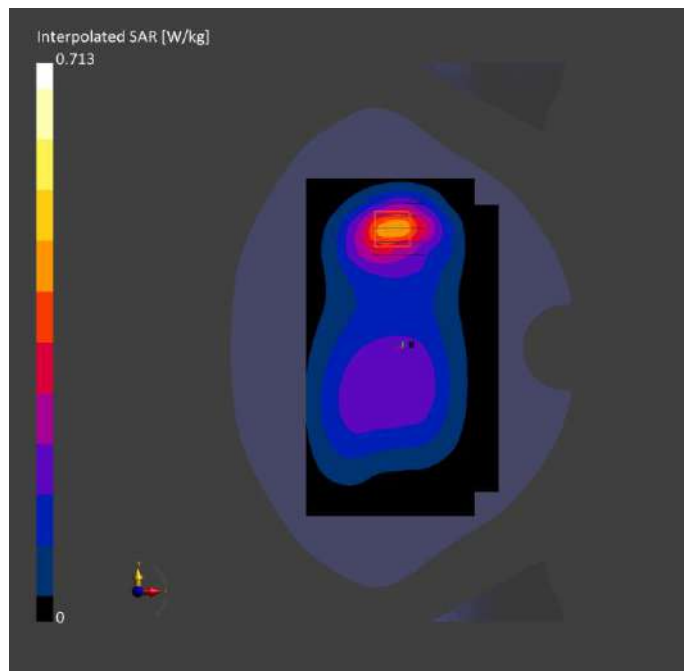
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-02-29	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA Surface	N/A	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-02-29	2024-02-29
psSAR1g [W/kg]	0.397	0.412
psSAR10g [W/kg]	0.253	0.243
Power Drift [dB]	-0.03	0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		55.4
Dist 3dB Peak [mm]		13.7



**Meas.18 Right Head with Cheek on Middle Channel in LTEBand7 mode with Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
C3L2	165.0 x 75.0 x 8.0	Phone

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
RightHead, HSL	TILT, 0.00	Band 7	LTE-FDD, 10169-CA	2535.0, 21100	7.41	1.87	39.9	22.4	21.3
			F						

**Hardware Setup**

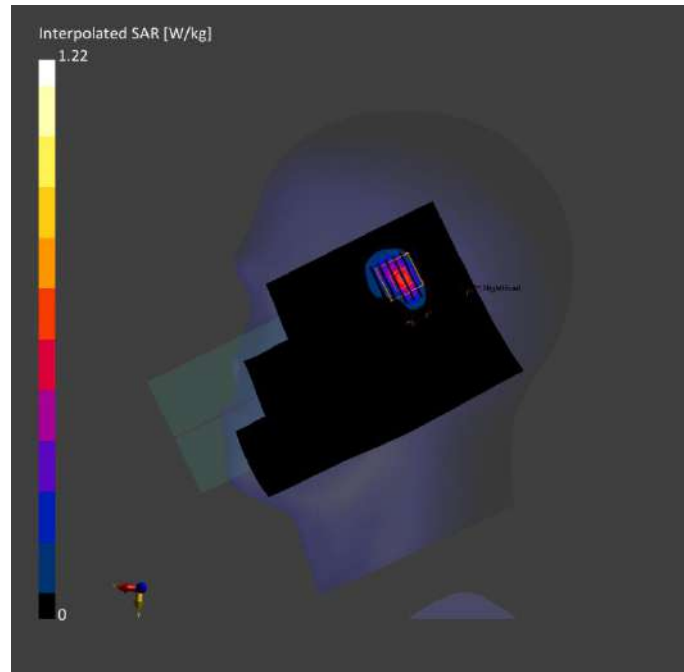
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-03-05	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 216.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-03-05	2024-03-05
psSAR1g [W/kg]	0.469	0.541
psSAR10g [W/kg]	0.190	0.210
Power Drift [dB]	0.02	0.02
Power Scaling Factor	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]		47.6
Dist 3dB Peak [mm]		6.0



**Meas.19 Body Plan with BottomEdge10mm on Middle Channel in LTE Band7 modewith Antenna 0**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
C3L2	165.0 x 75.0 x 8.0	Phone

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE, BOTTOM, 10.00	Band 7	LTE -FDD, 10169-CA, F	2535.0, 21100	7.41	1.87	39.9	22.4	21.3

**Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-03-05	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

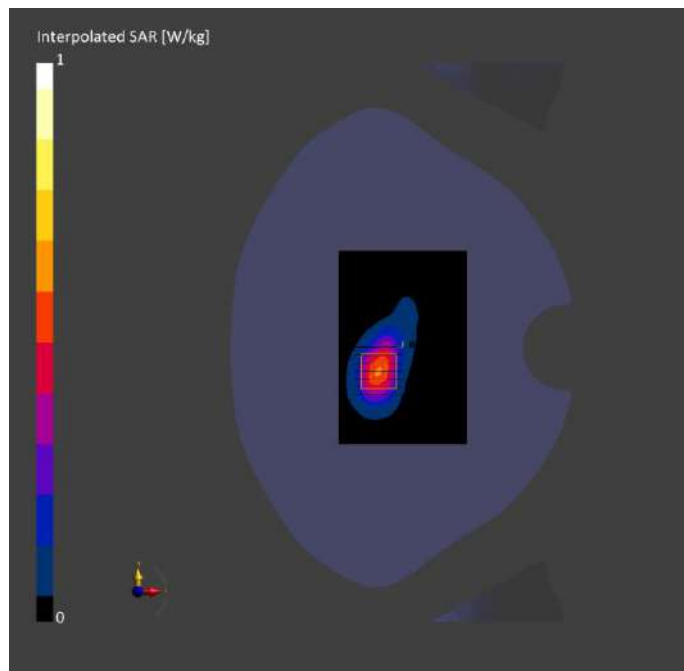
**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-03-05	2024-03-05
psSAR1g [W/kg]	0.476	0.510
psSAR10g [W/kg]	0.229	0.238
Power Drift [dB]	-0.05	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.9
Dist 3dB Peak [mm]		9.0





**Meas.20 Body Plan with BottomEdge 0mm on Middle Channel in LTE Band7 modewith Antenna 0**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
C3L2	165.0 x 75.0 x 8.0	Phone

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE, BOTTOM	Band 7	LTE-FDD, 10169-CA	2535.0, 21100	7.41	1.87	39.9	22.4	21.3
	, 0.00		F						

**Hardware Setup**

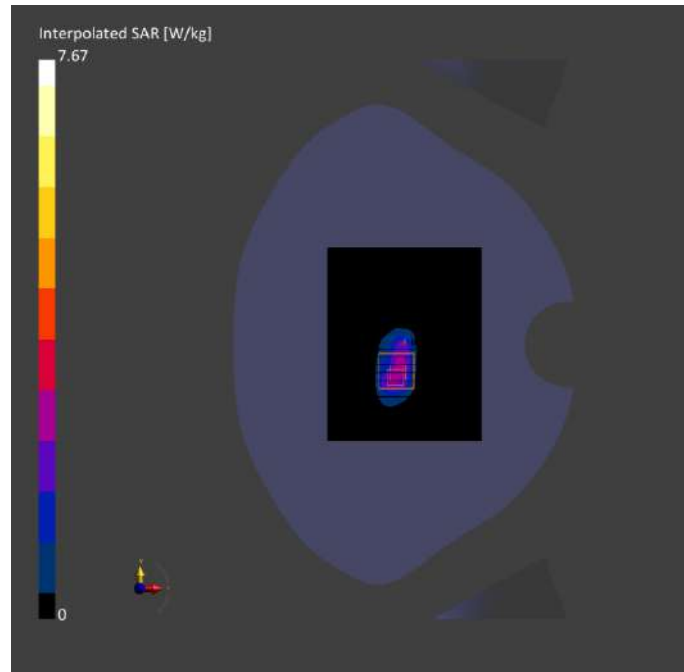
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-03-05	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-03-05	2024-03-05
psSAR1g [W/kg]	2.28	3.18
psSAR10g [W/kg]	1.06	1.24
Power Drift [dB]	-0.02	0.15
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		40.5
Dist 3dB Peak [mm]		5.1



**Meas.21 Right Head with Cheek on Middle Channel in LTEBand13 mode with Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
C3L2	165.0 x 75.0 x 8.0	Phone

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
RightHead, HSL	CHEEK, 0.00	Band 13	LTE-FDD, 10175-CA	782.0, 23230	10.31	0.90	41.9	22.1	21.2

**Hardware Setup**

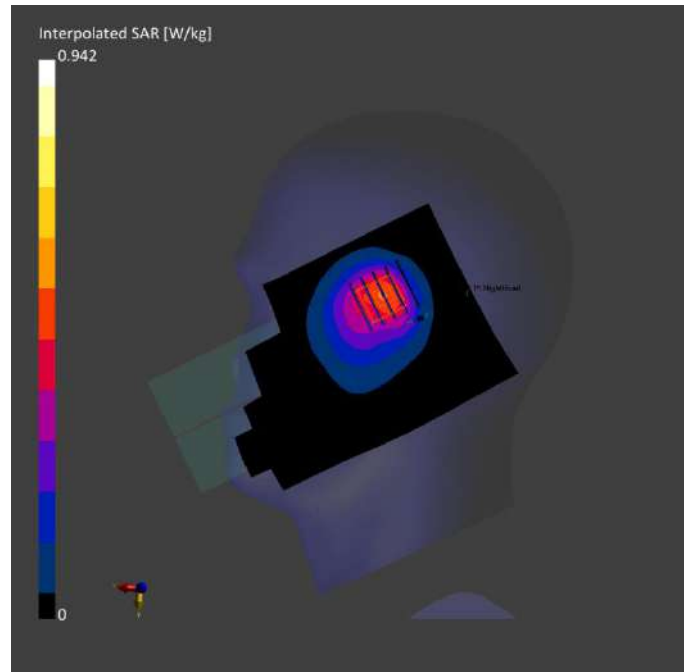
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-02-27	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-02-27	2024-02-27
psSAR1g [W/kg]	0.476	0.470
psSAR10g [W/kg]	0.312	0.293
Power Drift [dB]	0.01	-0.00
Power Scaling Factor	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]		44.1
Dist 3dB Peak [mm]		9.4



**Meas.22 Body Plan with BackSide10mm on High Channel in LTE Band4 modewith Antenna 0**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
C3L2	165.0 x 75.0 x 8.0	Phone

**Exposure Conditions**

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 10.00	Band 13	LTE-FDD, 10175-CA	782.0, 23230	10.31	0.90	41.9	22.1	21.2
			H						

**Hardware Setup**

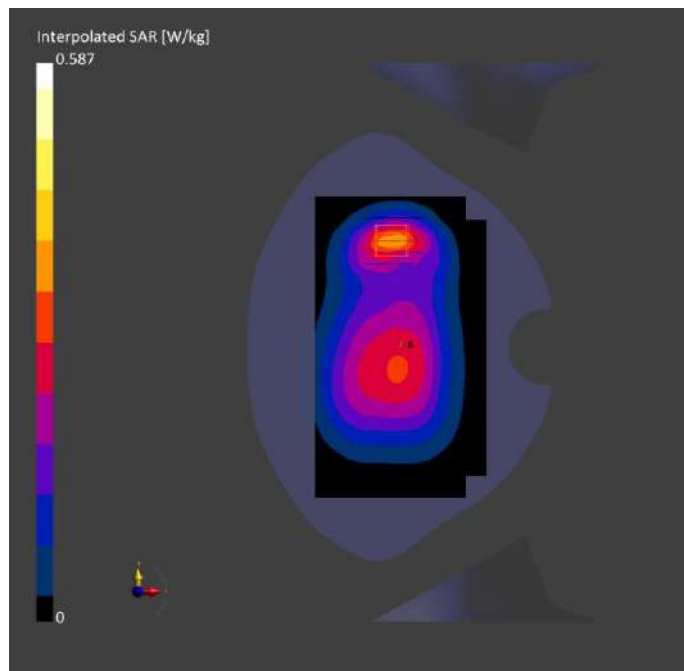
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-02-27	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA Surface	N/A	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-02-27	2024-02-27
psSAR1g [W/kg]	0.316	0.328
psSAR10g [W/kg]	0.202	0.190
Power Drift [dB]	-0.01	-0.01
Power Scaling Factor	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]		53.9
Dist 3dB Peak [mm]		13.7



**Meas.23 Right Head with Cheek on Middle Channel in LTEBand26 mode with Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
C3L2	165.0 x 75.0 x 8.0	Phone

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
RightHead, HSL	CHEEK, 0.00	Band 26	LTE-FDD, 10181-CA	831.5, 26865	9.96	0.90	42.5	22.2	21.5
			F						

**Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-02-29	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

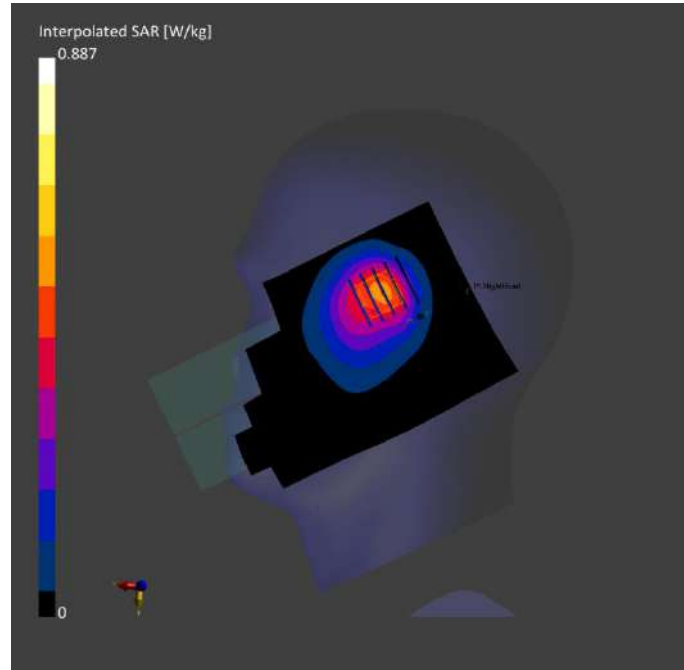
**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-02-29	2024-02-29
psSAR1g [W/kg]	0.479	0.475
psSAR10g [W/kg]	0.315	0.305
Power Drift [dB]	-0.01	0.12
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		47.0
Dist 3dB Peak [mm]		10.2





**Meas.24 Body Plan with BackSide10mm on Middle Channel in LTE Band26 modewith Antenna 0**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
C3L2	165.0 x 75.0 x 8.0	Phone

**Exposure Conditions**

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 10.00	Band 26	LTE-FDD, 10181-CA	831.5, 26865	9.96	0.895	42.5	22.2	21.5

**Hardware Setup**

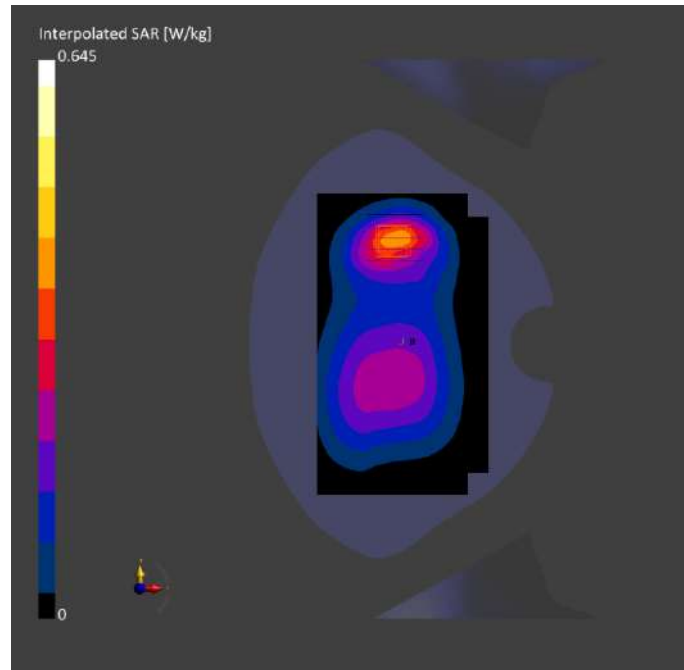
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-02-29	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA Surface	N/A	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-02-29	2024-02-29
psSAR1g [W/kg]	0.361	0.373
psSAR10g [W/kg]	0.231	0.221
Power Drift [dB]	-0.02	0.01
Power Scaling Factor	Disabled	Disabled
TSL Correction [dB]	No correction	No correction
M2/M1 [%]		54.4
Dist 3dB Peak [mm]		13.7



**Meas.25 Right Head with Cheek on Middle Channel in LTEBand66 mode with Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
C3L2	165.0 x 75.0 x 8.0	Phone

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
RightHead, HSL	TILT, 0.00	Band 66	LTE-FDD, 10169-CA	1745.0, 132322	8.52	1.34	39.5	22.1	21.2
			F						

**Hardware Setup**

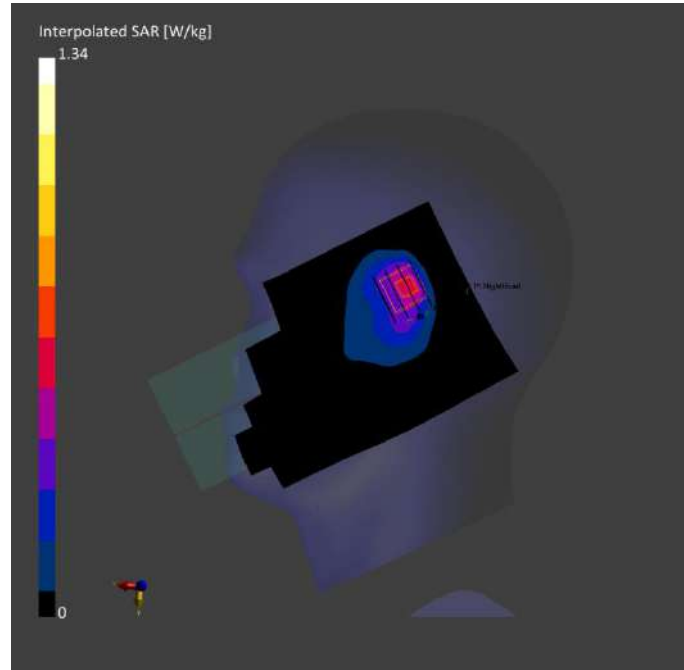
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-02-27	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-02-27	2024-02-27
psSAR1g [W/kg]	0.495	0.710
psSAR10g [W/kg]	0.273	0.339
Power Drift [dB]	0.10	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		53.6
Dist 3dB Peak [mm]		6.4



**Meas.26 Body Plan with TopEdge10mm on High Channel in LTE Band66 modewith Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
C3L2	165.0 x 75.0 x 8.0	Phone

**Exposure Conditions**

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE, TOP, 10.00	Band 66	LTE-FDD, 10169-CA F	1770.0, 132572	8.52	1.41	38.9	22.1	21.2

**Hardware Setup**

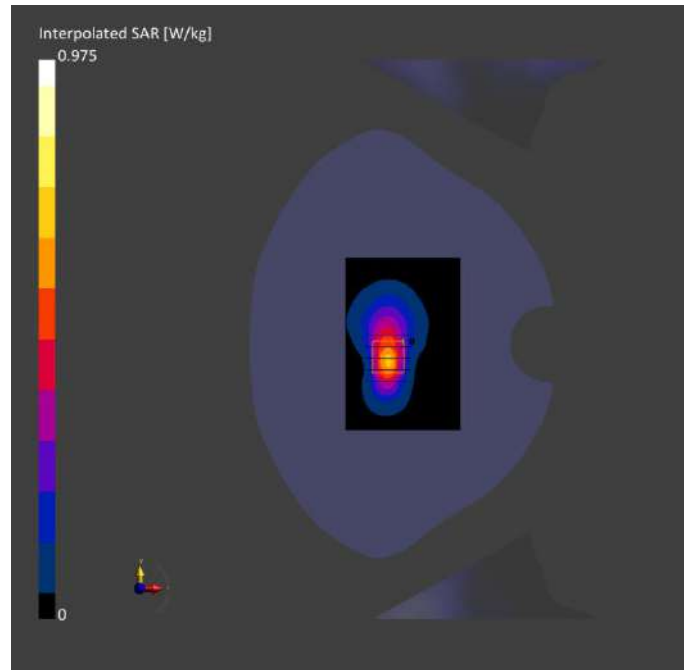
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-02-27	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA Surface	N/A	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-02-27	2024-02-27
psSAR1g [W/kg]	0.534	0.547
psSAR10g [W/kg]	0.279	0.288
Power Drift [dB]	-0.03	-0.05
Power Scaling Factor	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]		55.9
Dist 3dB Peak [mm]		9.6



**Meas.27 Body Plan with BottomEdge 0mm on Middle Channel in LTE Band66 modewith Antenna 0**  
**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
C3L2	165.0 x 75.0 x 8.0	Phone

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE, BOTTOM	Band 66	LTE-FDD, 10169-CA	1745.0, 132322	8.52	1.37	40.7	22.1	21.2
	, 0.00		F						

**Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-02-27	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

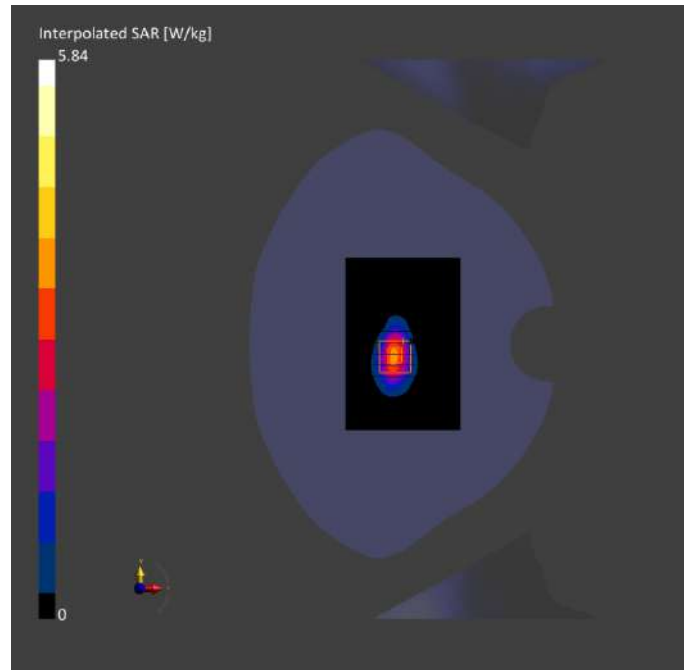
**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-02-27	2024-02-27
psSAR1g [W/kg]	2.89	2.92
psSAR10g [W/kg]	1.41	1.40
Power Drift [dB]	-0.07	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		48.2
Dist 3dB Peak [mm]		6.4





**Meas.28 Right Head with Tilt on Middle Channel in LTEBand38 mode with Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
C3L2	165.0 x 75.0 x 8.0	Phone

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
RightHead, HSL	TILT, 0.00	Band 38	LTE-TDD, 10172-CA	2595.0, 38000	7.41	1.96	38.7	22.4	21.3

**Hardware Setup**

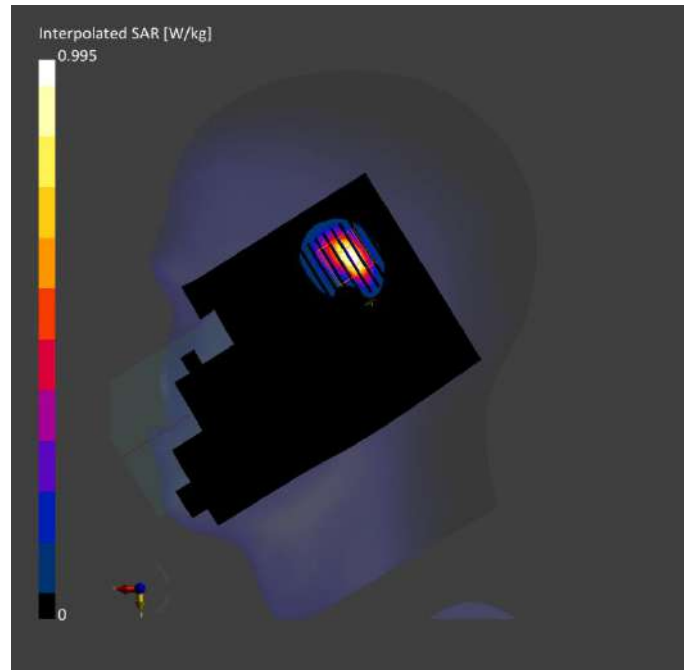
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-03-05	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-03-05	2024-03-05
psSAR1g [W/kg]	0.431	0.439
psSAR10g [W/kg]	0.172	0.173
Power Drift [dB]	-0.02	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		44.7
Dist 3dB Peak [mm]		7.0



## Meas.29 Body Plan with TopEdge10mm on Middle Channel in LTE Band38 modewith Antenna 1 Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
C3L2	165.0 x 75.0 x 8.0	Phone

### Exposure Conditions

Phantom m Section, TSL	Position , Test Distanc e [mm]	Band d	Group, UID	Frequenc y [MHz], Channel Number	Conversio n Factor	TSL Conductivit y [S/m]	TSL Permittivit y	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL	EDGE TOP, 10.00	Band 38	LTE-TDD, 10172-CA H	2595.0, 38000	7.41	1.96	38.7	22.4	21.3

### Hardware Setup

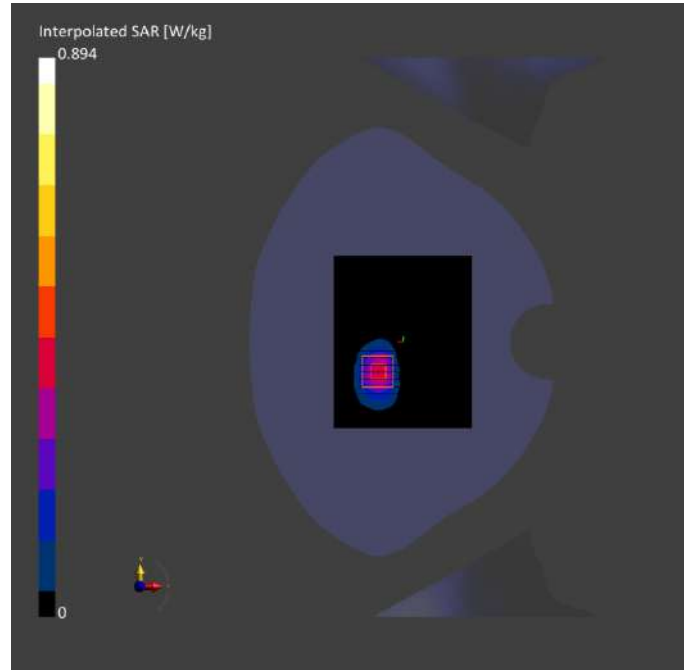
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-03-05	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

### Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

### Measurement Results

	Area Scan	Zoom Scan
Date	2024-03-05	2024-03-05
psSAR1g [W/kg]	0.341	0.435
psSAR10g [W/kg]	0.160	0.190
Power Drift [dB]	-0.05	0.02
Power Scaling Factor	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]		47.8
Dist 3dB Peak [mm]		8.0



**Meas.30 Body Plan with TopEdge 0mm on Middle Channel in LTE Band38 modewith Antenna 1  
Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
C3L2	165.0 x 75.0 x 8.0	Phone

**Exposure Conditions**

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE, TOP, 0.00	Band 38	LTE -TDD, 10172-CA	2595.0, 38000	7.41	1.96	38.7	22.4	21.3

**Hardware Setup**

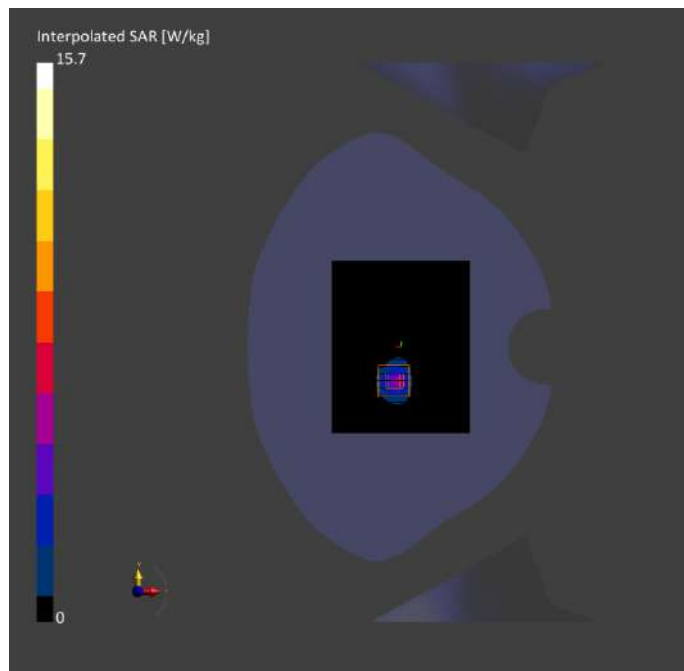
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-03-05	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA Surface	N/A	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-03-05	2024-03-05
psSAR1g [W/kg]	4.22	5.99
psSAR10g [W/kg]	1.68	1.97
Power Drift [dB]	0.01	-0.08
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		38.2
Dist 3dB Peak [mm]		5.0



**Meas.31 Right Head with Tilt on Middle Channel in LTEBand41 mode with Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
C3L2	165.0 x 75.0 x 8.0	Phone

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
RightHead, HSL	TILT, 0.00	Band 41	LTE-TDD, 10172-CA	2593.0, 40620	7.41	1.99	39.6	22.2	21.5

**Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-03-06	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

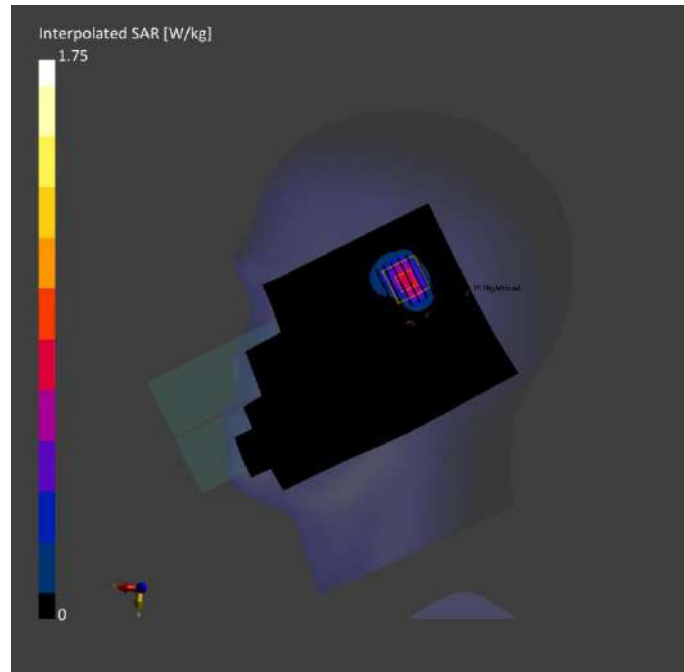
**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-03-06	2024-03-06
psSAR1g [W/kg]	0.593	0.602
psSAR10g [W/kg]	0.259	0.265
Power Drift [dB]	0.00	0.08
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		47.5
Dist 3dB Peak [mm]		6.7





**Meas.32 Body Plan with TopEdge10mm on Middle Channel in LTE Band41 modewith Antenna 1  
Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
C3L2	165.0 x 75.0 x 8.0	Phone

**Exposure Conditions**

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE, TOP, 10.00	Band 41	LTE -TDD, 10172-CA	2593.0, 40620	7.41	1.99	39.6	22.2	21.5

**Hardware Setup**

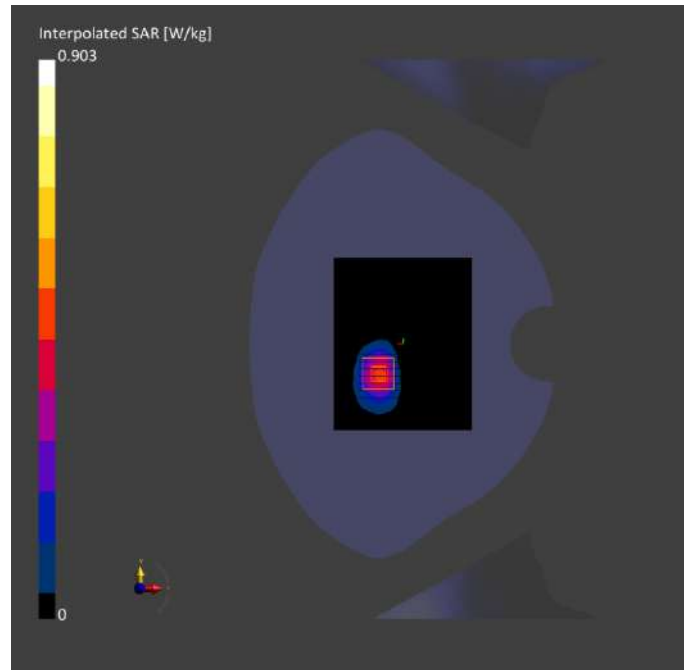
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-03-06	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA Surface	N/A	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-03-06	2024-03-06
psSAR1g [W/kg]	0.394	0.437
psSAR10g [W/kg]	0.184	0.191
Power Drift [dB]	-0.05	-0.03
Power Scaling Factor	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]		47.7
Dist 3dB Peak [mm]		8.1



**Meas.33 Body Plan with TopEdge 0mm on Middle Channel in LTE Band41 modewith Antenna 1  
Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
C3L2	165.0 x 75.0 x 8.0	Phone

**Exposure Conditions**

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE, TOP, 0.00	Band 41	LTE-TDD, 10172-CA	2593.0, 40620	7.41	1.99	39.6	22.2	21.5

**Hardware Setup**

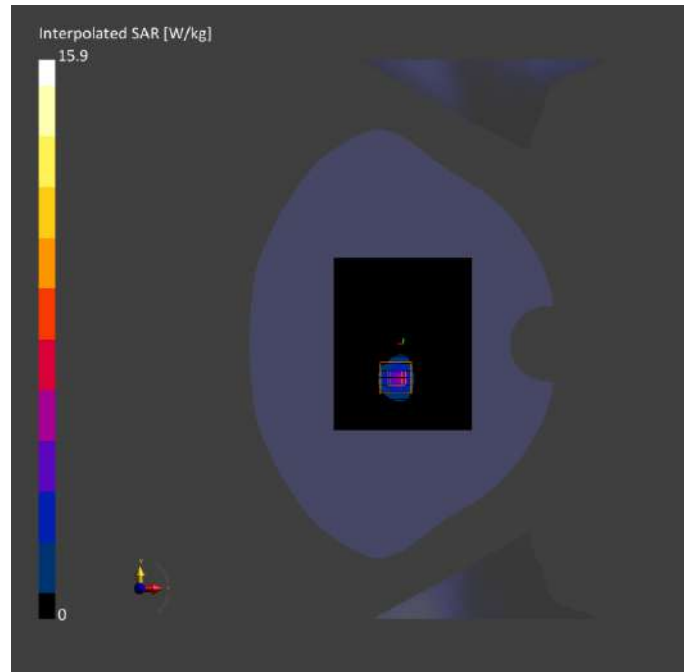
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-03-06	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-03-06	2024-03-06
psSAR1g [W/kg]	4.25	6.05
psSAR10g [W/kg]	1.70	1.98
Power Drift [dB]	0.01	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		36.3
Dist 3dB Peak [mm]		5.0



**Meas.34 Left Head with Cheek on 6 Channel in IEEE802.11b mode with Antenna 2**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
C3L2	165.0 x 75.0 x 8.0	Phone

**Exposure Conditions**

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Left Head, HSL	CHEEK, 0.00	WLAN, 2.4GHZ	WLAN, 10012-CA B	2437.0, 6	7.47	1.80	39.5	22.5	21.4

**Hardware Setup**

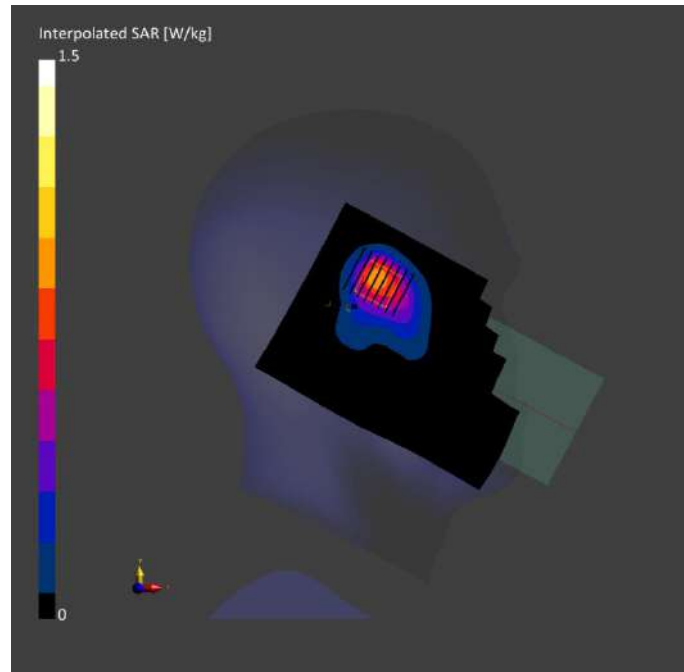
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-03-04	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA Surface	N/A	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-03-04	2024-03-04
psSAR1g [W/kg]	0.774	0.784
psSAR10g [W/kg]	0.400	0.404
Power Drift [dB]	0.01	-0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.2
Dist 3dB Peak [mm]		10.4



**Meas.35 Body Plan with BackSide10mm on 6 Channel in IEE802.b modewith Antenna 2**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
C3L2	165.0 x 75.0 x 8.0	Phone

**Exposure Conditions**

Phantom	Position, Test Section, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 10.00	WLAN, 2.4GHZ	WLAN, 10012-CA B	2437.0, 6	7.47	1.80	39.5	22.5	21.4

**Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-03-04	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

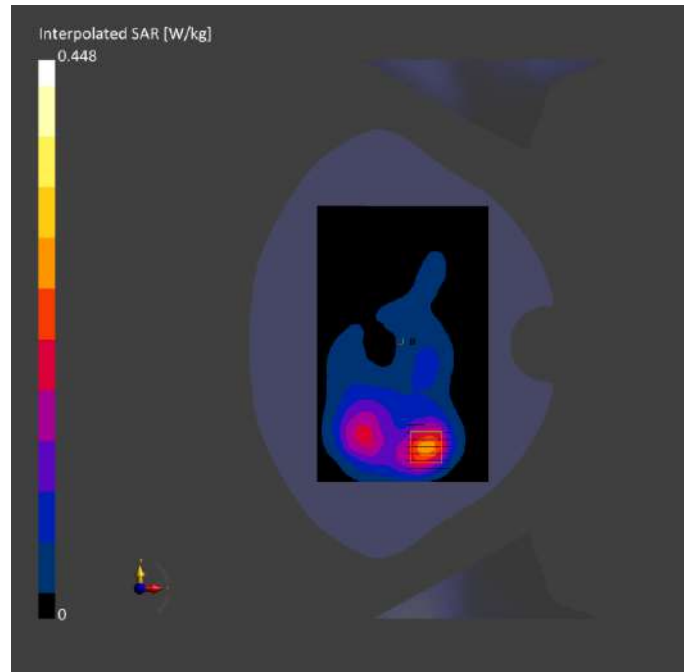
**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-03-04	2024-03-04
psSAR1g [W/kg]	0.225	0.230
psSAR10g [W/kg]	0.118	0.117
Power Drift [dB]	0.02	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		48.4
Dist 3dB Peak [mm]		12.7





**Meas.36 Left Head with Cheek on 78 Channel in Bluetooth mode with Antenna 2**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
C3L2	165.0 x 75.0 x 8.0	Phone

**Exposure Conditions**

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Left Head, HSL	CHEEK, 0.00	ISM 2.4 GHz Band	Bluetooth, 10032-CA A	2480.0, 78	7.47	1.89	38.1	22.5	21.4

**Hardware Setup**

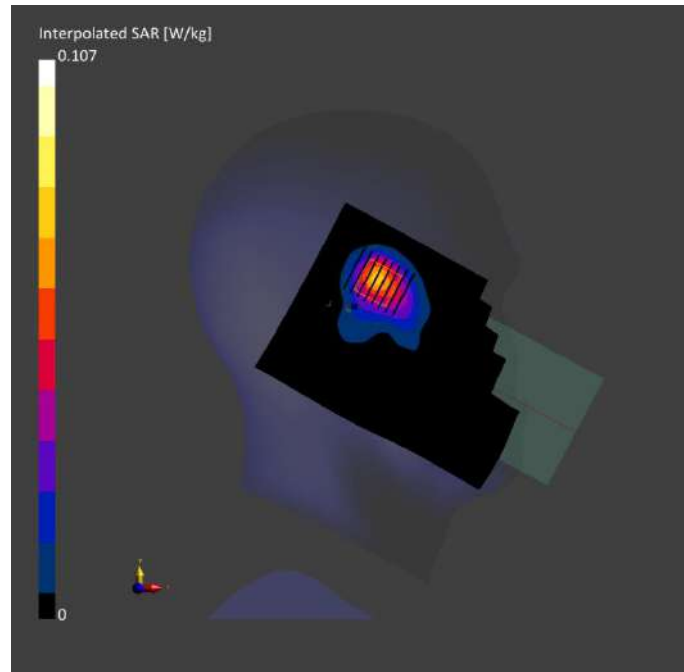
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-03-04	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-03-04	2024-03-04
psSAR1g [W/kg]	0.055	0.055
psSAR10g [W/kg]	0.028	0.028
Power Drift [dB]	0.07	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.7
Dist 3dB Peak [mm]		> 15.0



**Meas.37 Body Plan with TopEdge10mm on 78 Channel in Bluetooth modewith Antenna 2**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
C3L2	165.0 x 75.0 x 8.0	Phone

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE, TOP, 10.00	ISM, 2.4 GHz Band	Bluetooth, 10032-CA A	2480.0, 78	7.47	1.82	38.8	22.5	21.4

**Hardware Setup**

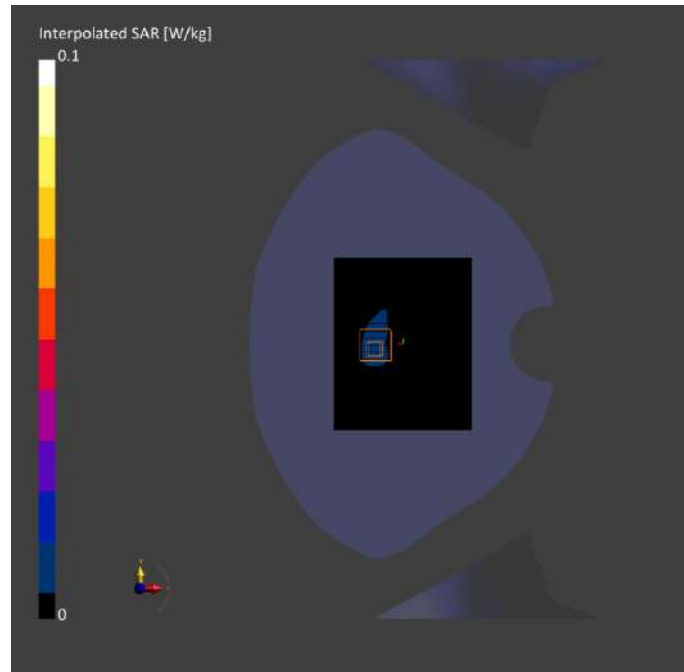
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-03-04	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-03-04	2024-03-04
psSAR1g [W/kg]	0.009	0.010
psSAR10g [W/kg]	0.005	0.005
Power Drift [dB]	0.02	-0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		59.3
Dist 3dB Peak [mm]		> 15.0



## **ANNEX D EUT EXTERNAL PHOTOS**

Please refer the document “BL-SZ2410652-AW.pdf”.

## **ANNEX E SAR TEST SETUP PHOTOS**

Please refer the document “BL-SZ2410652-AS.pdf”.

## **ANNEX F CALIBRATION REPORT**

Please refer the document “BL-SZ2410652-AC.pdf”.

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