

# TEST REPORT

**Applicant:** Realme Chongqing Mobile Telecommunications Corp., Ltd.  
**Address:** No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China  
**Equipment Type:** Mobile Phone  
**Model Name:** RMX3951  
**Brand Name:** realme  
**FCC ID:** 2AUYFRMX3951  
**Test Standard:** FCC 47 CFR Part 2.1093 (refer to section 3.1)  
**Maximum SAR:** Head (1 g@0mm): 1.19 W/kg  
Body-worn (1 g@15mm): 0.39 W/kg  
Hotspot (1 g@10mm): 1.01 W/kg  
Specific (10 g@0mm): 2.65 W/kg  
**Sample Arrival Date:** Jun. 04, 2024  
**Test Date:** Jun. 05, 2024 - Jun. 29, 2024  
**Date of Issue:** Jul. 04, 2024

**ISSUED BY:**

Shenzhen BALUN Technology Co., Ltd.

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<b>Revision History</b>		
Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Jul. 04, 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 6685 0100

## 1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	<input type="checkbox"/> Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	<input checked="" 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	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China

### 2.2 Manufacturer Information

Manufacturer	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China

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

EUT Name	Mobile Phone
Model Name Under Test	RMX3951
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	11
Software Version	realme UI 5.0
Dimensions (Approx.)	about 165.6×76.1×7.79(mm)
Weight (Approx.)	about 190g
EUT ID	S33, S34, S29, S30
IMEI Number	S33: IMEI1: 862456070032710; IMEI2: 862456070032702
	S34: IMEI1: 862456070023438; IMEI2: 862456070023420
	S29: IMEI1: 862456070034872; IMEI2: 862456070034864
	S30: IMEI1: 862456070022612; IMEI2: 862456070022604
Note1: EUT ID is used to identify the test sample in the lab internally.	
Note2: It is performed to test SAR with the EUT S33 & S34 and conducted power with the EUT S29 and S30.	

### 2.4 Ancillary Equipment

Ancillary Equipment 1	Battery	
	Brand Name	SUPERVOOC
	Model No.	BLPA17
	Serial No.	N/A
	Capacity	5000 mAh/19.45 Wh
	Rated Voltage	3.89 V
	Limit Charge Voltage	4.48 V
	Manufacturer	Shenzhen Sunwoda Intelligence Technology Co., Ltd.

## 2.5 Technical Information

Network and Wireless connectivity	<p>2G Network GSM/GPRS/EDGE 850/1900 MHz</p> <p>3G Network WCDMA/HSDPA/HSUPA/HSPA+ Band 2/4/5</p> <p>4G Network LTE FDD Band 2/4/5/7/12/13/17/26/66 LTE TDD Band 38/41</p> <p>LTE CA Uplink (UL): CA_7C, CA_38C, CA_41C</p> <p>LTE Downlink (DL): CA_2C, CA_7B, CA_7C, CA_38C, CA_41C, CA_41A-41A, CA_7A-7A, CA_2A-38A, CA_5A-41A, CA_5A-66A, CA_7A-66A, CA_2A-2A, CA_2A-5A, CA_2A-7A, CA_2A-12A, CA_4A-5A, CA_4A-7A, CA_5A-7A, CA_12A-66A, CA_66A-66A, CA_4A-4A, CA_26A-41A, CA_5A-38A, CA_2A-4A, CA_38A-66A, CA_26A-38A, CA_2A-66A, CA_7A-26A</p> <p>5G Network</p> <p>SA: NR n5/n7/n38/n41/n66</p> <p>NSA UL (EN-DC): DC_7A_n5A, DC_66A_n5A, DC_2A_n7A, DC_4A_n7A, DC_5A_n7A, DC_7A_n7A, DC_66A_n7A, DC_2A_n66A, DC_5A_n66A, DC_7A_n66A, DC_66A_n66A, DC_2A_n38A, DC_4A_n38A, DC_5A_n38A, DC_38A_n38A, DC_66A_n38A, DC_2A_n41A, DC_4A_n41A, DC_26A_n41A, DC_41A_n41A, DC_66A_n41A</p> <p>DL(EN-DC): DC_7C_n5A, DC_7C_n66A, DC_5A-66A_n66A, DC_7A-66A_n66A, DC_2A-5A_n66A, DC_5A-7A_n7A, DC_5A-7A_n66A, DC_66A-66A_n5A, DC_66A-66A_n7A</p> <p>NR CA Downlink (DL): CA_n5A-n7A, CA_n7B</p> <p>Bluetooth (BR+EDR+BLE)</p> <p>2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40) and VHT(20/40)</p> <p>5G WIFI 802.11a, 802.11n(HT20/40) and 802.11ac(VHT20/40/80)</p> <p>U-NII-1/2A/2C/3, GPS, GLONASS, BDS, Galileo, NFC</p>
<p>Note:</p> <p>The EUT is a mobile phone, which supports dual SIM card under the same transceiver. Each SIM supports GSM, WCDMA, LTE and NR, and both SIM share the same transmitting electro circuit, NV parameters, so only SIM1 was tested in this report.</p>	

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

Operating Mode	GSM, WCDMA, LTE, 2.4G WLAN, 5G WLAN, Bluetooth		
Frequency Range	GSM 850	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	GSM 1900	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	WCDMA Band 2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	WCDMA Band 4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	WCDMA Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	LTE Band 4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	LTE Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 7	TX: 2500 ~ 2570 MHz	RX: 2620 ~ 2690 MHz



	LTE Band 12	TX: 699 ~ 716 MHz	RX: 729 ~ 746 MHz
	LTE Band 13	TX: 777 ~ 787 MHz	RX: 746 ~ 756 MHz
	LTE Band 17	TX: 704 ~ 716 MHz	RX: 734 ~ 746 MHz
	LTE Band 26	TX: 814 ~ 824 MHz	RX: 859 ~ 869 MHz
		TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 66	TX: 1710 ~ 1780 MHz	RX: 2110 ~ 2180 MHz
	LTE Band 38	TX: 2570 ~ 2620 MHz	RX: 2570 ~ 2620 MHz
	LTE Band 41	TX: 2496 ~ 2690 MHz	RX: 2496 ~ 2690 MHz
	n5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	n7	TX: 2500 ~ 2570 MHz	RX: 2620 ~ 2690 MHz
	n38	TX: 2570 ~ 2620 MHz	RX: 2570 ~ 2620 MHz
	n41	TX: 2496 ~ 2690 MHz	RX: 2496 ~ 2690 MHz
	n66	TX: 1710 ~ 1780 MHz	RX: 2110 ~ 2180 MHz
	802.11b/g /n(HT20/HT40)/VHT 20/40	2412 ~ 2462 MHz	
	802.11a/ /n(HT20/HT40) /ac(VHT20/VHT40/ VHT80)	5150 ~ 5250 MHz	
		5250 ~ 5350 MHz	
		5470 ~ 5725 MHz	
		5725 ~ 5850 MHz	
	Bluetooth	2402 ~ 2480 MHz	
	NFC	13.56 MHz	
Antenna Type	WWAN: IFA Antenna WLAN: IFA Antenna Bluetooth: IFA Antenna NFC: Coil Antenna		
DTM	N/A		
Hotspot Function	Support		
Power Reduction	Support		
Exposure Category	General Population/Uncontrolled exposure		
Product Type	Portable Device		
EUT Type	<input checked="" type="checkbox"/> Production unit	<input 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 2/3/4/5G transmitter for held-to-ear exposure conditions.</li> <li>2. The device utilizes independent power reduction mechanisms for SAR compliance for the 2/3/4/5G transmitter for near to body exposure conditions.</li> <li>3. The reduction power details please refer section 8.9.</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 D05 v02r05	SAR Evaluation Considerations for LTE Devices
7	KDB 941225 D05A v01r02	REL. 10 LTE SAR TEST GUIDANCE AND KDB INQUIRIES
8	KDB 941225 D06 v02r01	SAR EVALUATION PROCEDURES FOR PORTABLE DEVICES WITH WIRELESS ROUTER CAPABILITIES
9	KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
10	KDB 865664 D02 v01r02	RF Exposure Reporting
11	KDB 648474 D04 v01r03	SAR EVALUATION CONSIDERATIONS FOR WIRELESS HANDSETS
12	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)				Maximum Report SAR (W/kg)			
		Head (0mm)	Body-worn (15mm)	Hotspot (10mm)	Specific (0mm)	Head (0mm)	Body-worn (15mm)	Hotspot (10mm)	Specific (0mm)
		1g SAR		10g SAR		1g SAR		10g SAR	
PCE	GSM 850	0.93	0.21	0.41	/	1.19	0.39	1.01	2.65
	GSM 1900	0.80	0.29	0.72	1.46				
	WCDMA Band 2	1.00	0.31	0.79	2.19				
	WCDMA Band 4	1.06	0.38	0.73	2.35				
	WCDMA Band 5	0.95	0.20	0.40	/				
	LTE Band 2	0.91	0.32	0.75	/				
	LTE Band 4	1.08	0.30	0.91	1.96				
	LTE Band 5	0.99	0.16	0.27	/				
	LTE Band 7	1.09	0.19	0.58	1.77				
	LTE Band 12	0.83	0.23	0.25	/				
	LTE Band 13	1.15	0.15	0.23	/				
	LTE Band 17	0.86	0.23	0.25	/				
	LTE Band 26	0.99	0.16	0.25	/				
	LTE Band 38	1.02	0.36	1.01	2.65				
	LTE Band 41	1.10	0.32	0.92	2.65				
	LTE Band 66	1.00	0.24	0.60	1.47				
	NR n5	0.71	0.18	0.35	/				
	NR n7	0.78	0.19	0.56	1.84				
	NR n38	1.18	0.30	0.86	2.19				
	NR n41	0.96	0.28	0.79	2.16				
NR n66	1.19	0.39	0.96	1.98					
DTS	2.4G WLAN	0.86	0.11	0.17	0.55				
NII	5.2G WLAN	/	0.18	0.36	/				
	5.3G WLAN	0.98	0.19	/	0.62				
	5.6G WLAN	0.44	0.08	/	0.27				
	5.8G WLAN	0.67	0.18	0.42	/				
DSS	Bluetooth	0.52	0.09	0.14	0.39				
Limit (W/kg)		1.6		4.0		1.6		4.0	
Verdict		PASS							

### 3.3.2 Highest Simultaneous Transmission SAR Values

Equipment Class	Maximum Scaled SAR (W/kg)			
	Head 1g (0mm)	Body-worn 1g (15mm)	Hotspot 1g (10mm)	Specific 10g (0mm)
PCE	<b>1.58</b>	<b>0.66</b>	<b>1.36</b>	<b>3.18</b>
DTS	1.41	0.56	1.15	2.93
NII	<b>1.58</b>	<b>0.66</b>	<b>1.36</b>	<b>3.18</b>
DSS	<b>1.58</b>	<b>0.66</b>	<b>1.36</b>	<b>3.18</b>
Limit (W/Kg)	1.60	1.60	1.60	4.00
Verdict	Pass			
Note: The highest simultaneous SAR please refer section 13.2				

### 3.4 Test Uncertainty

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

The maximum 1 g SAR for the EUT in this report is 1.19 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 2.65 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

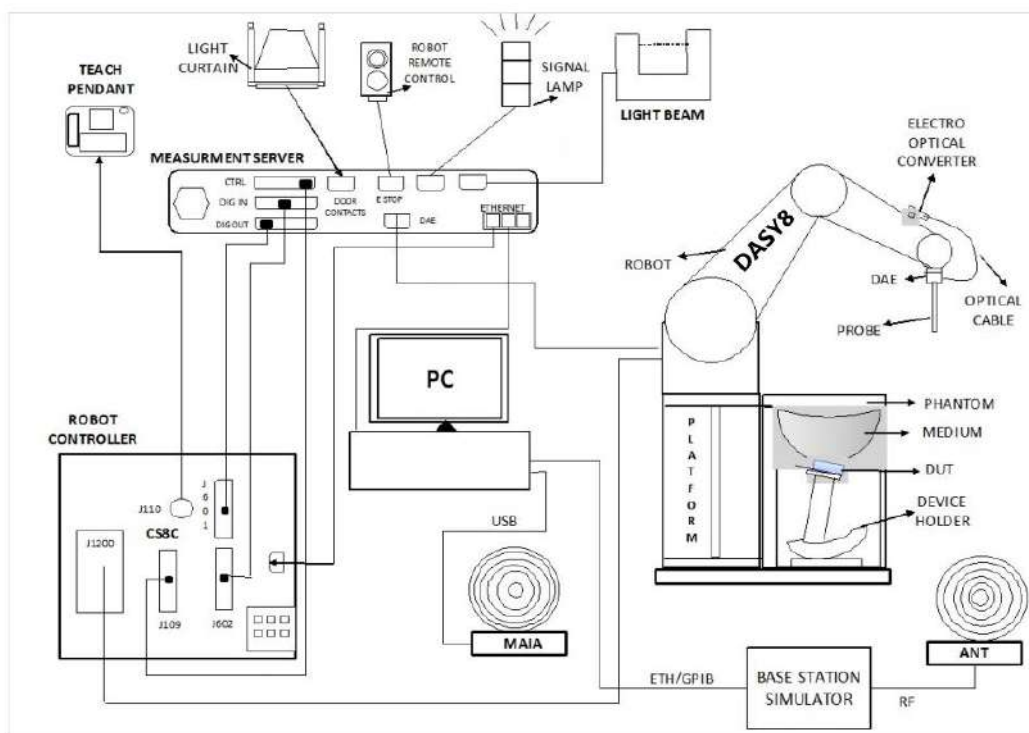
$$\mathbf{SAR} = \frac{\sigma E^2}{\rho}$$

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



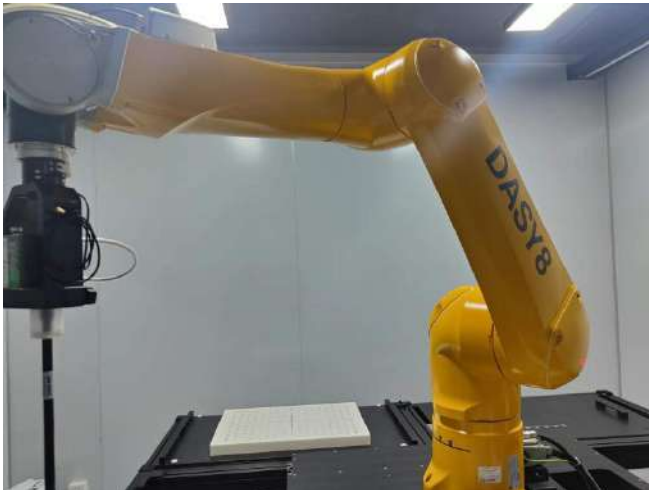
The DASY system for performing compliance tests consists of the following items:

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 DASY 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**  
(brush less synchron motors; no stepper motors)
- **Low ELF interference**  
(motor control \_elds shielded via the closed metallic construction shields)

### 4.2.3 E-Field Probe

The probe is specially designed and calibrated for use in liquids with high permittivities for the measurements the Specific Dosimetric E-Field Probe EX3DV4 SN: 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., glycolether)
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, Antennassa proprietary calibration system. The calibration is performed with the IEC/IEEE 62209-1528 annexe technique using reference guide at the five frequencies.

#### 4.2.4 Data Acquisition Electronics

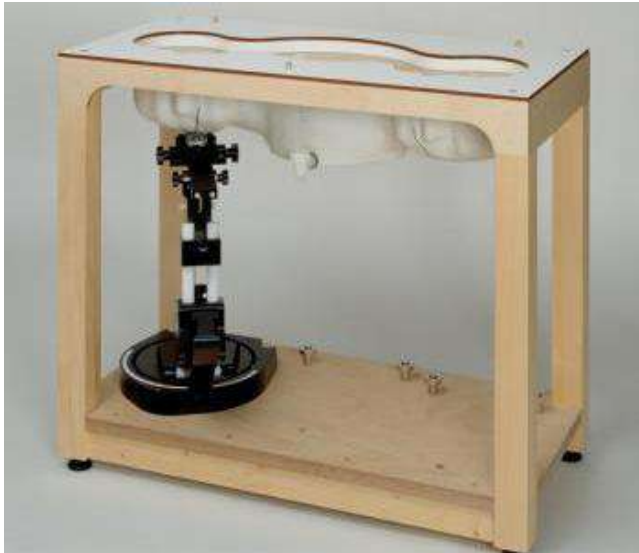
The data acquisition electronics (DAE) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converte and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an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



- Input Impedance: 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 SAM	Vinylester, glass fiber reinforced	1000	500

#### 4.2.6 Device Holder

The DASY 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  $65^\circ$ . The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. This device holder is used for standard mobile phones or PDA"s only. If necessary an additional support of polystyrene material is used. Larger DUT"s (e.g. notebooks) cannot be tested using this device holder. Instead a support of bigger polystyrene cubes and thin polystyrene plates is used to position the DUT in all relevant positions to find and measure spots with maximum SAR values. Therefore those devices are normally only tested at the flat part of the SAM.



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

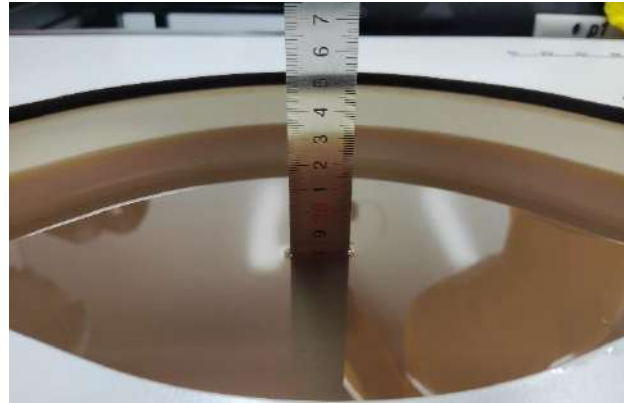
#### 4.2.7 Simulating Liquid

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

**Head Liquid Depth**



**Body Liquid Depth**



The following table gives the recipes for tissue simulating liquid.

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

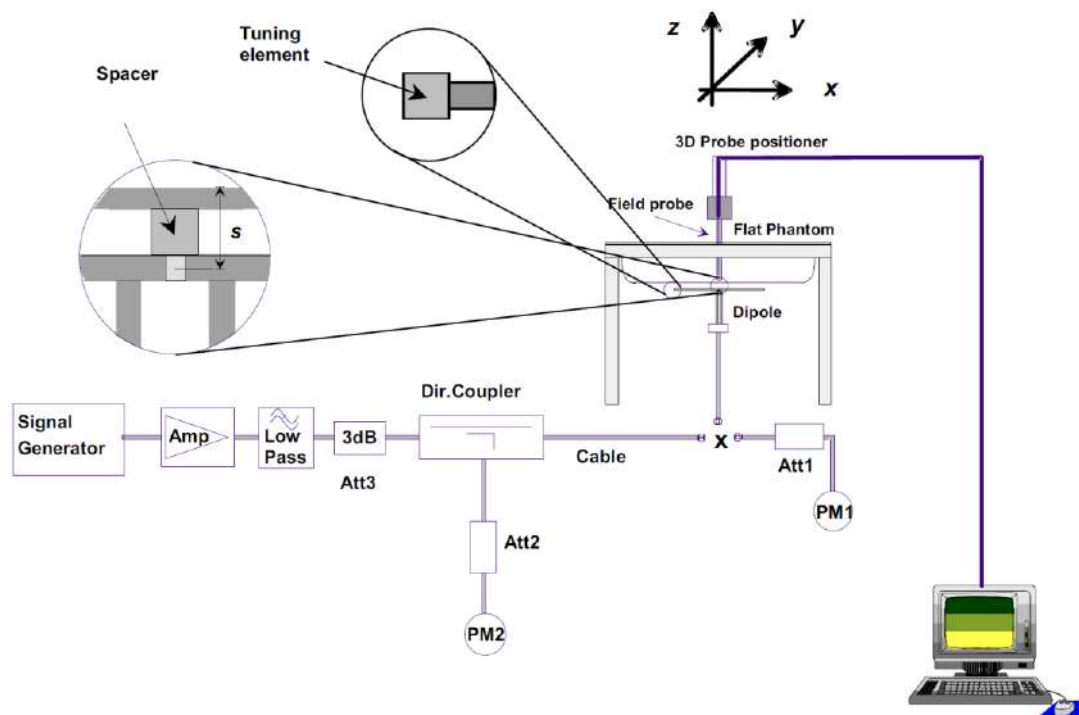
## 5 SYSTEM VERIFICATION

### 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

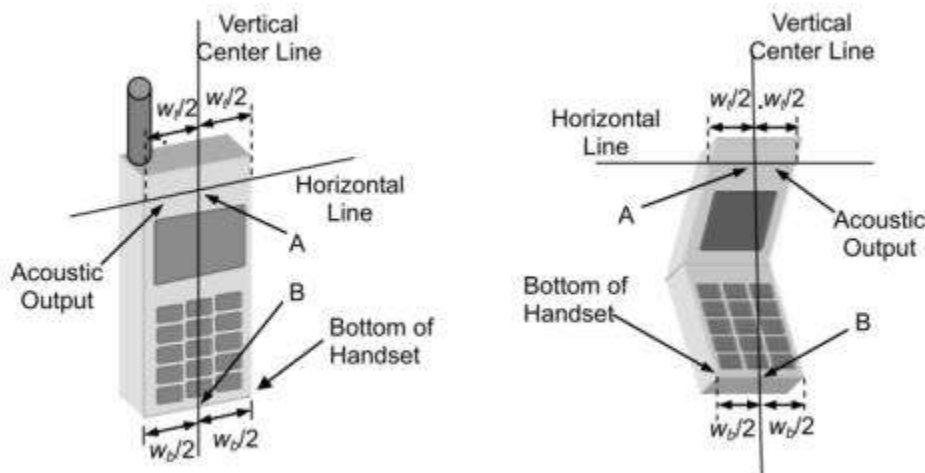
According to KDB 648474 D04 Handset, handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

### 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

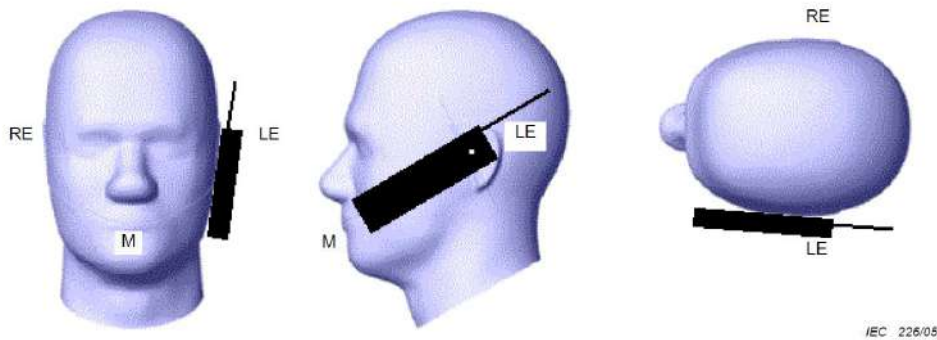
- The vertical center line passes through two points on the front side of the handset - the midpoint of the width  $w_t$  of the handset at the level of the acoustic output, and the midpoint of the width  $w_b$  of the bottom of the handset.
- The horizontal line is perpendicular to the vertical centerline 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 center line 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

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



### 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.

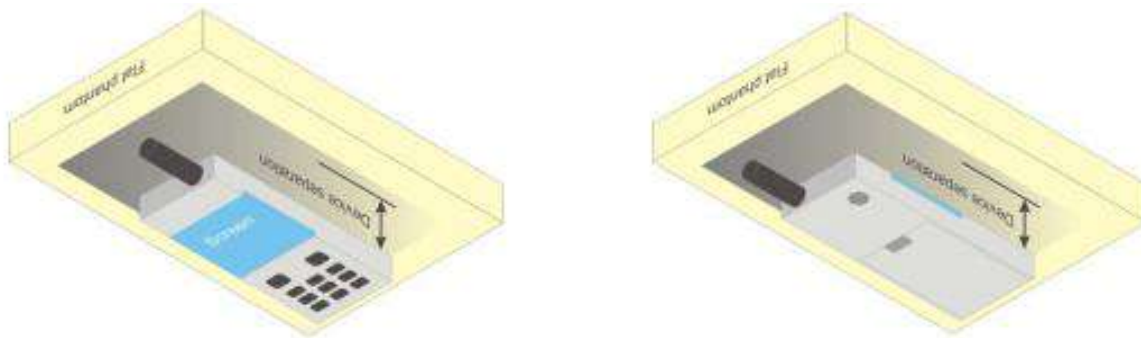


## 6.2 Body-worn Position Conditions

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.

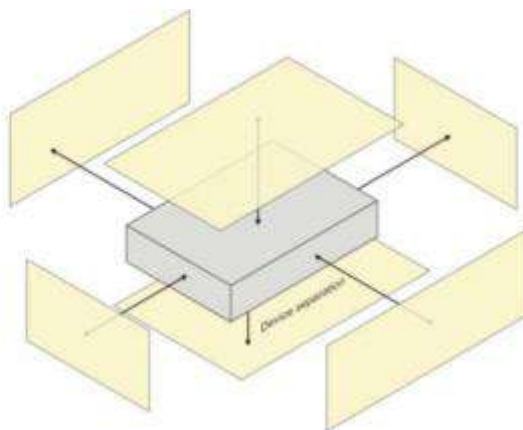
Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics.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



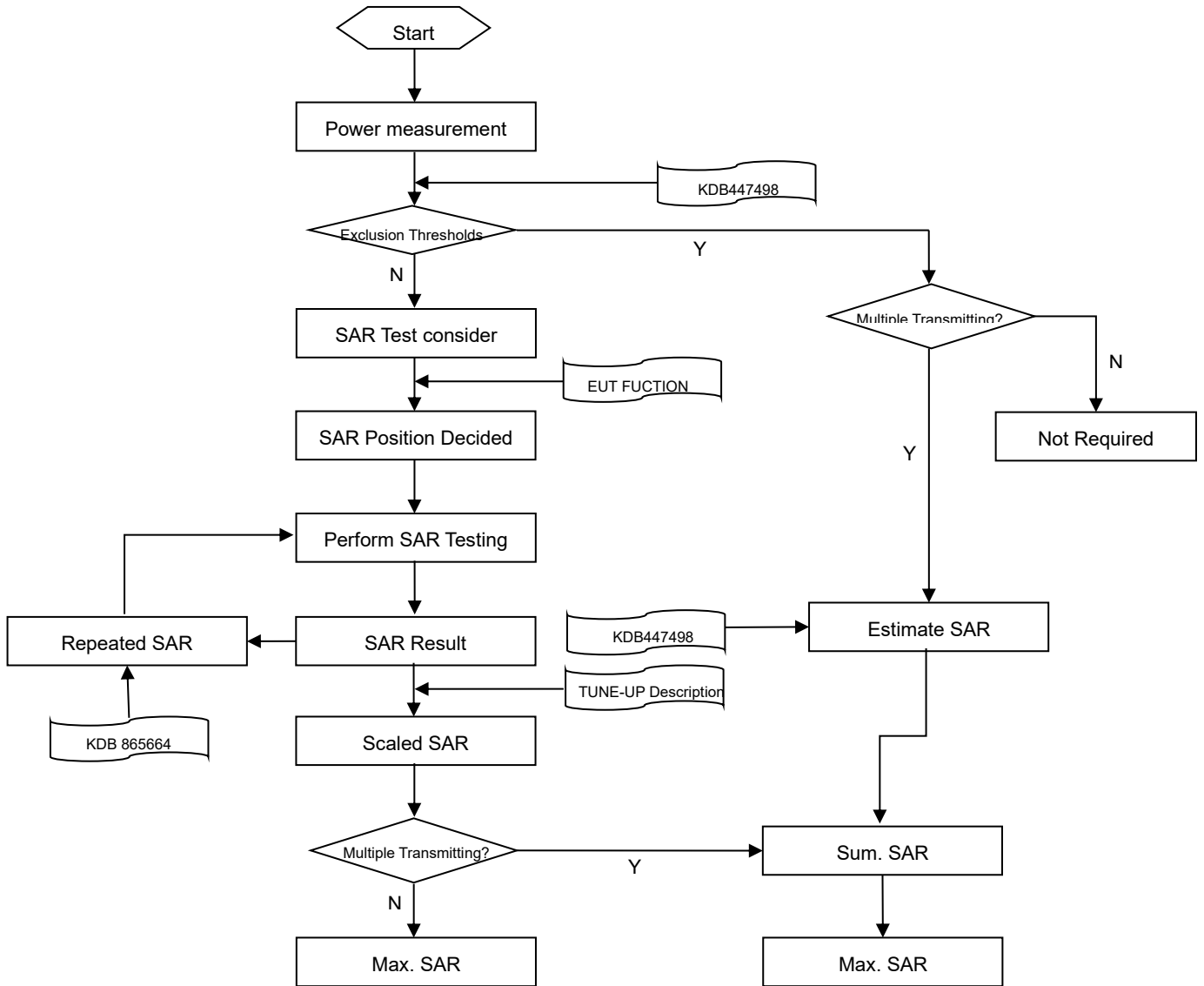
### 6.4 Product Specific 10g Exposure Consideration

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°
		≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3–4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
Maximum area scan spatial resolution: $\Delta x$ Area , $\Delta y$ Area		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*
	uniform grid: $\Delta z$ Zoom (n)	≤ 5 mm	3–4 GHz: ≤ 4 mm 4–5 GHz: ≤ 3 mm 5–6 GHz: ≤ 2 mm
Maximum zoom scan spatial resolution, normal to phantom surface	graded grid	$\Delta z$ Zoom (1): between 1st two points closest to phantom surface $\Delta z$ Zoom (n>1): between subsequent points	3–4 GHz: ≤ 3 mm 4–5 GHz: ≤ 2.5 mm 5–6 GHz: ≤ 2 mm
Minimum zoom scan volume	x, y, z	≥30 mm	3–4 GHz: ≥ 28 mm 4–5 GHz: ≥ 25 mm 5–6 GHz: ≥ 22 mm

### Note:

1.  $\delta$  is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.
2. \* When zoom scan is required and the reported SAR from the area scan based 1 g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

### 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.

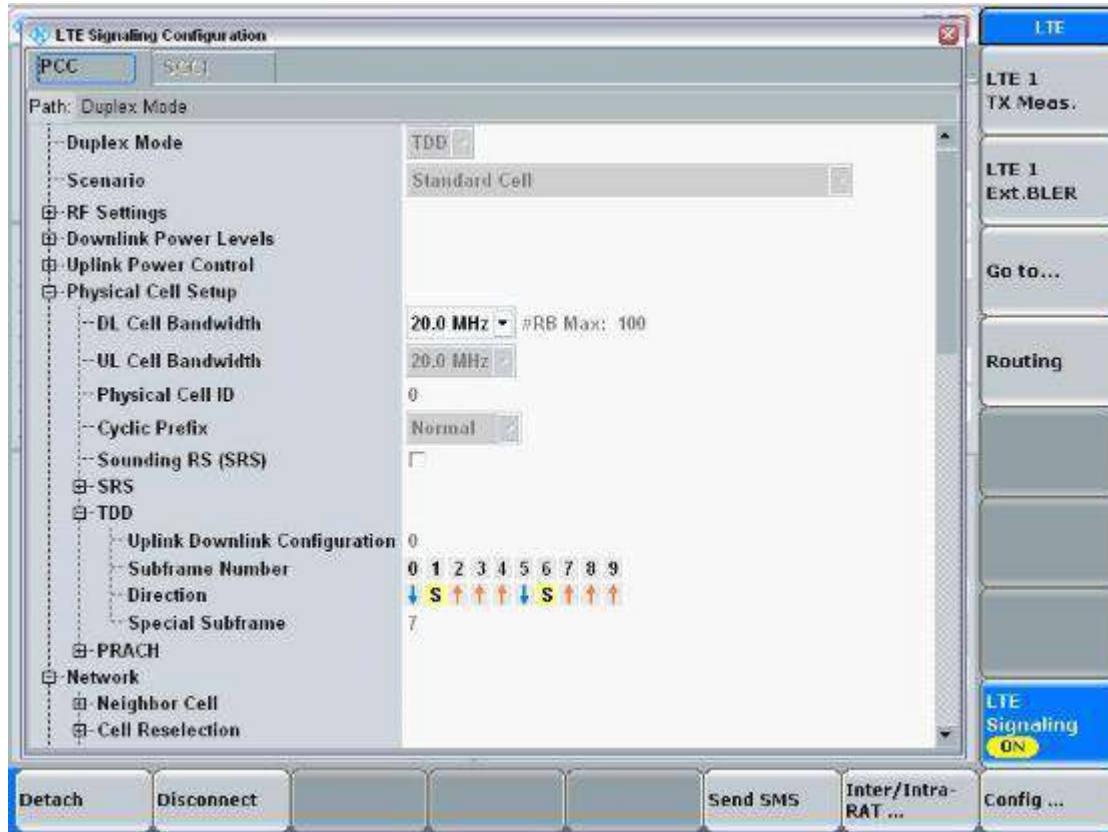
### 7.4 Area & Zoom Scan Procedure

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.

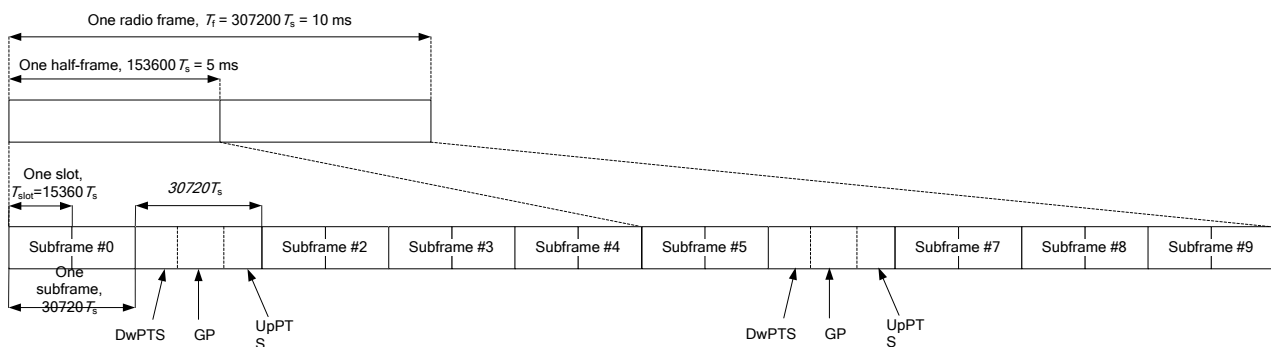
When the 1 g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.

## 7.5 LTE (TDD) Considerations

During TDD-LTE SAR testing, the EUT was commanded to transmit on maximum output power and maximum transmitting bandwidth. The uplink and downlink slot configuration as below in one radio frame.



According to 3GPP Per 3GPP TS 36.211. Each radio frame of length ( $T_f=307200 \cdot T_s = 10\text{ms}$ ) of two half-frames of length ( $153600 \cdot T_s = 5\text{ms}$ ). Each half-frame consists of five sub-frames of length ( $30720 \cdot T_s = 1\text{ms}$ )



And the special sub-frame with the three fields DwPTS, GP and UpPTS.

The length of DwPTS and UpPTS is given by below table subject to the total length of DwPTS, GP and UpPTS being equal to  $30720 \cdot T_s = 1\text{ms}$ .

**Configuration of special sub-frame (lengths of DwPTS/GP/UpPTS)**

Special sub-frame configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21592 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$7680 \cdot T_s$	$2560 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$			$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21592 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-		
9	$13168 \cdot T_s$	-	-	-	-	-

For special sub-frame uplink time we used the largest cyclic prefix for duty cycle calculate;

Maximum uplink time of one special sub-frame=(largest cyclic prefix)/(one sub-frame of length)\* time of one sub-frame= $5120 \cdot T_s / 30720 \cdot T_s \cdot 1\text{ms} = 0.167\text{ms}$

One radio frame with 6 uplink sub-frames and two special sub-frame, there for the maximum Uplink time in one radio frame is:  **$6 \cdot 1\text{ ms} + 2 \cdot 0.167\text{ ms} = 6.334\text{ms}$**

So, the duty cycle for TDD-LTE is:  **$6.334\text{ms} / 10\text{ms} = 1: 1.58$**



## 8 CONDUCTED RF OUPUT POWER

### 8.1 GSM

Please refer the document “BL-SZ2460066-AP Power List.pdf”.

### 8.2 WCDMA

Please refer the document “BL-SZ2460066-AP Power List.pdf”.

### 8.3 LTE

Please refer the document “BL-SZ2460066-AP Power List.pdf”.

### 8.4 Intra-Band Uplink CA Normal Power

Note:

1. This devices supports intra-band uplink CA of 7C/38C/41C.
2. For intra-band uplink carrier aggregation power verification and measurement is selected highest PCC and SCC bandwidth combination to do and was according to 3GPP 36.52101 sectino6.2.2A.1 and section 6.2.2A.2 test procedure.
3. For intra-band uplink CA output power was measured high / middle / low channel combination, and for SAR verification is selected highest output power combination with each exposure condition in each frequency band using the highest SAR configuration test in standalone LTE mode.

Please refer the document “BL-SZ2460066-AP Power List.pdf”.

### 8.5 Downlink CA Normal Power

Note:

1. This devices supports Downlink carrier aggregation (CA).

Please refer the document “BL-SZ2460066-AP Power List.pdf”.

### 8.6 5G NR

Please refer the document “BL-SZ2460066-AP Power List.pdf”.

## 8.7 WIFI

### 8.7.1 2.4G WIFI-ANT8-Full power

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	<b>14.15</b>	16.00	Yes
		6	2437	14.02	16.00	Yes
		11	2462	14.10	16.00	Yes
	802.11g	1	2412	6.49	8.00	No
		6	2437	6.20	8.00	No
		11	2462	6.66	8.00	No
	802.11n(HT20)	1	2412	6.24	8.00	No
		6	2437	6.03	8.00	No
		11	2462	6.52	8.00	No
	802.11n(HT40)	3	2422	8.57	10.50	No
		6	2437	8.63	10.50	No
		9	2452	8.65	10.50	No
	VHT20	1	2412	6.23	8.00	No
		6	2437	6.09	8.00	No
		11	2462	6.49	8.00	No
	VHT40	3	2422	8.66	10.50	No
		6	2437	8.60	10.50	No
		9	2452	8.66	10.50	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/VHT) 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.

## 8.7.2 2.4G WIFI-ANT8-Level1

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	<b>14.15</b>	16.00	Yes
		6	2437	14.02	16.00	Yes
		11	2462	14.10	16.00	Yes
	802.11g	1	2412	6.49	8.00	No
		6	2437	6.20	8.00	No
		11	2462	6.66	8.00	No
	802.11n(HT20)	1	2412	6.24	8.00	No
		6	2437	6.03	8.00	No
		11	2462	6.52	8.00	No
	802.11n(HT40)	3	2422	8.57	10.50	No
		6	2437	8.63	10.50	No
		9	2452	8.65	10.50	No
	VHT20	1	2412	6.23	8.00	No
		6	2437	6.09	8.00	No
		11	2462	6.49	8.00	No
	VHT40	3	2422	8.66	10.50	No
		6	2437	8.60	10.50	No
		9	2452	8.66	10.50	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/VHT) 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.

Adjusted SAR =  $0.863 * (11.22\text{mW}/39.81\text{mW}) = 0.243$  W/Kg, so 2.4G OFDM SAR test is not required.

## 8.7.3 2.4G WIFI-ANT8-Level3

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	<b>12.70</b>	14.50	Yes
		6	2437	12.55	14.50	No
		11	2462	12.56	14.50	No
	802.11g	1	2412	4.96	6.50	No
		6	2437	4.71	6.50	No
		11	2462	5.25	6.50	No
	802.11n(HT20)	1	2412	4.77	6.50	No
		6	2437	4.61	6.50	No
		11	2462	4.99	6.50	No
	802.11n(HT40)	3	2422	7.12	9.00	No
		6	2437	7.17	9.00	No
		9	2452	7.12	9.00	No
	VHT20	1	2412	4.76	6.50	No
		6	2437	4.71	6.50	No
		11	2462	5.02	6.50	No
	VHT40	3	2422	7.15	9.00	No
		6	2437	7.23	9.00	No
		9	2452	7.21	9.00	No

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

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

2) When multiple transmission modes (802.11b/g/n/VHT) 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.

Adjusted SAR =  $0.594 * (7.94\text{mW}/28.18\text{mW}) = 0.167$  W/Kg, so 2.4G OFDM SAR test is not required.

## 8.7.4 2.4G WIFI-ANT8-Level5

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	<b>14.15</b>	16.00	Yes
		6	2437	14.02	16.00	No
		11	2462	14.10	16.00	No
	802.11g	1	2412	6.49	8.00	No
		6	2437	6.20	8.00	No
		11	2462	6.66	8.00	No
	802.11n(HT20)	1	2412	6.24	8.00	No
		6	2437	6.03	8.00	No
		11	2462	6.52	8.00	No
	802.11n(HT40)	3	2422	8.57	10.50	No
		6	2437	8.63	10.50	No
		9	2452	8.65	10.50	No
	VHT20	1	2412	6.23	8.00	No
		6	2437	6.09	8.00	No
		11	2462	6.49	8.00	No
	VHT40	3	2422	8.66	10.50	No
		6	2437	8.60	10.50	No
		9	2452	8.66	10.50	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/VHT) 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.  
Adjusted SAR =  $0.111 * (11.22\text{mW}/39.81\text{mW}) = 0.031$  W/Kg, so 2.4G OFDM SAR test is not required.

## 8.7.5 2.4G WIFI-ANT8-Level7

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	<b>14.15</b>	16.00	Yes
		6	2437	14.02	16.00	No
		11	2462	14.10	16.00	No
	802.11g	1	2412	6.49	8.00	No
		6	2437	6.20	8.00	No
		11	2462	6.66	8.00	No
	802.11n(HT20)	1	2412	6.24	8.00	No
		6	2437	6.03	8.00	No
		11	2462	6.52	8.00	No
	802.11n(HT40)	3	2422	8.57	10.50	No
		6	2437	8.63	10.50	No
		9	2452	8.65	10.50	No
	VHT20	1	2412	6.23	8.00	No
		6	2437	6.09	8.00	No
		11	2462	6.49	8.00	No
	VHT40	3	2422	8.66	10.50	No
		6	2437	8.60	10.50	No
		9	2452	8.66	10.50	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/VHT) 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.

Adjusted SAR =  $0.171 * (11.22\text{mW}/39.81\text{mW}) = 0.048$  W/Kg, so 2.4G OFDM SAR test is not required.

## 8.7.6 5G WIFI-ANT8-Full power

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	<b>15.54</b>	17.00	Yes
		44	5220	15.50	17.00	No
		48	5240	15.18	17.00	No
	802.11n(HT20)	36	5180	15.32	17.00	No
		44	5220	15.05	17.00	No
		48	5240	15.06	17.00	No
	802.11n(HT40)	38	5190	10.76	12.50	No
		46	5230	10.70	12.50	No
	802.11ac(VHT20)	36	5180	15.36	17.00	No
		44	5220	15.24	17.00	No
		48	5240	15.10	17.00	No
	802.11ac(VHT40)	38	5190	10.77	12.50	No
46		5230	10.72	12.50	No	
802.11ac(VHT80)	42	5210	11.07	13.00	No	
5.3 (5.25~5.35)	802.11a	52	5260	<b>15.06</b>	16.50	Yes
		60	5300	14.72	16.50	No
		64	5320	14.65	16.50	No
	802.11n(HT20)	52	5260	14.91	16.50	No
		60	5300	14.61	16.50	No
		64	5320	14.52	16.50	No
	802.11n(HT40)	54	5270	13.43	15.00	No
		62	5310	13.17	15.00	No
	802.11ac(VHT20)	52	5260	14.85	16.50	No
		60	5300	14.63	16.50	No
		64	5320	14.81	16.50	No
	802.11ac(VHT40)	54	5270	13.51	15.00	No
		62	5310	13.44	15.00	No
	802.11ac(VHT80)	58	5290	11.73	13.50	No
	5.6 (5.47~5.725)	802.11a	100	5500	9.54	11.00
116			5580	9.18	11.00	No
140			5700	9.27	11.00	No
802.11n(HT20)		100	5500	9.43	11.00	No
		116	5580	9.04	11.00	No
		140	5700	9.13	11.00	No
802.11n(HT40)		102	5510	11.01	12.50	No
		118	5590	10.76	12.50	No

		134	5670	10.79	12.50	No
	802.11ac(VHT20)	100	5500	9.34	11.00	No
		116	5580	9.29	11.00	No
		140	5700	9.44	11.00	No
	802.11ac(VHT40)	102	5510	11.02	12.50	No
		118	5590	10.95	12.50	No
		134	5670	11.09	12.50	No
	802.11ac(VHT80)	106	5530	<b>11.35</b>	13.00	Yes
		122	5690	11.29	13.00	No
	5.8 (5.725~5.850)	802.11a	149	5745	15.46	17.00
157			5785	15.03	17.00	No
165			5825	<b>15.49</b>	17.00	Yes
802.11n(HT20)		149	5745	15.28	17.00	No
		157	5785	15.19	17.00	No
		165	5825	15.02	17.00	No
802.11n(HT40)		151	5755	12.83	14.50	No
		159	5795	12.80	14.50	No
802.11ac(VHT20)		149	5745	15.29	17.00	No
		157	5785	15.03	17.00	No
		165	5825	15.01	17.00	No
802.11ac(VHT40)		151	5755	12.84	14.50	No
		159	5795	12.83	14.50	No
802.11ac(VHT80)		155	5775	13.16	15.00	No

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



## 8.7.7 5G WIFI-ANT8-Level1&amp;2

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	14.69	16.00	No
		44	5220	14.66	16.00	No
		48	5240	14.50	16.00	No
	802.11n(HT20)	36	5180	14.37	16.00	No
		44	5220	14.06	16.00	No
		48	5240	14.32	16.00	No
	802.11n(HT40)	38	5190	9.79	11.50	No
		46	5230	9.65	11.50	No
	802.11ac(VHT20)	36	5180	14.64	16.00	No
		44	5220	14.39	16.00	No
		48	5240	14.28	16.00	No
	802.11ac(VHT40)	38	5190	9.92	11.50	No
46		5230	10.10	11.50	No	
802.11ac(VHT80)	42	5210	10.06	12.00	No	
5.3 (5.25~5.35)	802.11a	52	5260	14.62	16.00	Yes
		60	5300	14.59	16.00	Yes
		64	5320	14.36	16.00	Yes
	802.11n(HT20)	52	5260	14.59	16.00	No
		60	5300	14.14	16.00	No
		64	5320	14.02	16.00	No
	802.11n(HT40)	54	5270	13.18	14.50	No
		62	5310	12.62	14.50	No
	802.11ac(VHT20)	52	5260	14.62	16.00	No
		60	5300	14.24	16.00	No
		64	5320	14.27	16.00	No
	802.11ac(VHT40)	54	5270	13.01	14.50	No
62		5310	12.89	14.50	No	
802.11ac(VHT80)	58	5290	11.49	13.00	No	
5.6 (5.47~5.725)	802.11a	100	5500	9.54	11.00	No
		116	5580	9.18	11.00	No
		140	5700	9.27	11.00	No
	802.11n(HT20)	100	5500	9.43	11.00	No
		116	5580	9.04	11.00	No
		140	5700	9.13	11.00	No
	802.11n(HT40)	102	5510	11.01	12.50	No
118		5590	10.76	12.50	No	

		134	5670	10.79	12.50	No
	802.11ac(VHT20)	100	5500	9.34	11.00	No
		116	5580	9.29	11.00	No
		140	5700	9.44	11.00	No
	802.11ac(VHT40)	102	5510	11.02	12.50	No
		118	5590	10.95	12.50	No
		134	5670	11.09	12.50	No
	802.11ac(VHT80)	106	5530	11.35	13.00	Yes
		122	5690	11.29	13.00	No
	5.8 (5.725~5.850)	802.11a	149	5745	14.00	15.50
157			5785	13.68	15.50	No
165			5825	14.02	15.50	Yes
802.11n(HT20)		149	5745	13.86	15.50	No
		157	5785	13.97	15.50	No
		165	5825	13.67	15.50	No
802.11n(HT40)		151	5755	11.31	13.00	No
		159	5795	11.47	13.00	No
802.11ac(VHT20)		149	5745	14.01	15.50	No
		157	5785	13.59	15.50	No
		165	5825	13.77	15.50	No
802.11ac(VHT40)		151	5755	11.60	13.00	No
		159	5795	11.38	13.00	No
802.11ac(VHT80)		155	5775	11.82	13.50	No

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

## 8.7.8 5G WIFI- ANT8-Level3&amp;4

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	11.61	13.00	No
		44	5220	11.50	13.00	No
		48	5240	11.17	13.00	No
	802.11n(HT20)	36	5180	11.33	13.00	No
		44	5220	11.18	13.00	No
		48	5240	11.01	13.00	No
	802.11n(HT40)	38	5190	6.71	8.50	No
		46	5230	6.95	8.50	No
	802.11ac(VHT20)	36	5180	11.45	13.00	No
		44	5220	11.29	13.00	No
		48	5240	11.37	13.00	No
	802.11ac(VHT40)	38	5190	6.85	8.50	No
		46	5230	6.93	8.50	No
	802.11ac(VHT80)	42	5210	7.13	9.00	No
	5.3 (5.25~5.35)	802.11a	52	5260	<b>11.56</b>	13.00
60			5300	11.20	13.00	No
64			5320	11.12	13.00	No
802.11n(HT20)		52	5260	11.66	13.00	No
		60	5300	11.15	13.00	No
		64	5320	11.04	13.00	No
802.11n(HT40)		54	5270	10.06	11.50	No
		62	5310	9.73	11.50	No
802.11ac(VHT20)		52	5260	11.36	13.00	No
		60	5300	11.14	13.00	No
		64	5320	11.47	13.00	No
802.11ac(VHT40)		54	5270	10.12	11.50	No
		62	5310	10.18	11.50	No
802.11ac(VHT80)		58	5290	8.47	10.00	No
5.6 (5.47~5.725)		802.11a	100	5500	9.54	11.00
	116		5580	9.18	11.00	No
	140		5700	9.27	11.00	No
	802.11n(HT20)	100	5500	9.43	11.00	No
		116	5580	9.04	11.00	No
		140	5700	9.13	11.00	No
	802.11n(HT40)	102	5510	11.01	12.50	No
		118	5590	10.76	12.50	No

		134	5670	10.79	12.50	No
	802.11ac(VHT20)	100	5500	9.34	11.00	No
		116	5580	9.29	11.00	No
		140	5700	9.44	11.00	No
	802.11ac(VHT40)	102	5510	11.02	12.50	No
		118	5590	10.95	12.50	No
		134	5670	11.09	12.50	No
	802.11ac(VHT80)	106	5530	<b>11.35</b>	13.00	Yes
		122	5690	11.29	13.00	No
	5.8 (5.725~5.850)	802.11a	149	5745	10.95	12.50
157			5785	10.55	12.50	No
165			5825	<b>11.06</b>	12.50	Yes
802.11n(HT20)		149	5745	11.05	12.50	No
		157	5785	10.85	12.50	No
		165	5825	10.59	12.50	No
802.11n(HT40)		151	5755	8.43	10.00	No
		159	5795	8.44	10.00	No
802.11ac(VHT20)		149	5745	10.81	12.50	No
		157	5785	10.72	12.50	No
		165	5825	10.65	12.50	No
802.11ac(VHT40)		151	5755	8.40	10.00	No
		159	5795	8.54	10.00	No
802.11ac(VHT80)		155	5775	8.62	10.50	No

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

## 8.7.9 5G WIFI-ANT8-Level5&amp;6

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	<b>15.54</b>	17.00	Yes
		44	5220	15.50	17.00	No
		48	5240	15.18	17.00	No
	802.11n(HT20)	36	5180	15.32	17.00	No
		44	5220	15.05	17.00	No
		48	5240	15.06	17.00	No
	802.11n(HT40)	38	5190	10.76	12.50	No
		46	5230	10.70	12.50	No
	802.11ac(VHT20)	36	5180	15.36	17.00	No
		44	5220	15.24	17.00	No
		48	5240	15.10	17.00	No
	802.11ac(VHT40)	38	5190	10.77	12.50	No
		46	5230	10.72	12.50	No
802.11ac(VHT80)	42	5210	11.07	13.00	No	
5.3 (5.25~5.35)	802.11a	52	5260	<b>15.06</b>	16.50	Yes
		60	5300	14.72	16.50	No
		64	5320	14.65	16.50	No
	802.11n(HT20)	52	5260	14.91	16.50	No
		60	5300	14.61	16.50	No
		64	5320	14.52	16.50	No
	802.11n(HT40)	54	5270	13.43	15.00	No
		62	5310	13.17	15.00	No
	802.11ac(VHT20)	52	5260	14.85	16.50	No
		60	5300	14.63	16.50	No
		64	5320	14.81	16.50	No
	802.11ac(VHT40)	54	5270	13.51	15.00	No
		62	5310	13.44	15.00	No
	802.11ac(VHT80)	58	5290	11.73	13.50	No
	5.6 (5.47~5.725)	802.11a	100	5500	9.54	11.00
116			5580	9.18	11.00	No
140			5700	9.27	11.00	No
802.11n(HT20)		100	5500	9.43	11.00	No
		116	5580	9.04	11.00	No
		140	5700	9.13	11.00	No
802.11n(HT40)		102	5510	11.01	12.50	No
		118	5590	10.76	12.50	No

		134	5670	10.79	12.50	No
	802.11ac(VHT20)	100	5500	9.34	11.00	No
		116	5580	9.29	11.00	No
		140	5700	9.44	11.00	No
	802.11ac(VHT40)	102	5510	11.02	12.50	No
		118	5590	10.95	12.50	No
		134	5670	11.09	12.50	No
	802.11ac(VHT80)	106	5530	<b>11.35</b>	13.00	Yes
		122	5690	11.29	13.00	No
	5.8 (5.725~5.850)	802.11a	149	5745	15.46	17.00
157			5785	15.03	17.00	No
165			5825	<b>15.49</b>	17.00	Yes
802.11n(HT20)		149	5745	15.28	17.00	No
		157	5785	15.19	17.00	No
		165	5825	15.02	17.00	No
802.11n(HT40)		151	5755	12.83	14.50	No
		159	5795	12.80	14.50	No
802.11ac(VHT20)		149	5745	15.29	17.00	No
		157	5785	15.03	17.00	No
		165	5825	15.01	17.00	No
802.11ac(VHT40)		151	5755	12.84	14.50	No
		159	5795	12.83	14.50	No
802.11ac(VHT80)		155	5775	13.16	15.00	No

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

## 8.7.10 5G WIFI-ANT8-Level7&amp;8

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	<b>12.70</b>	14.00	Yes
		44	5220	12.62	14.00	No
		48	5240	12.18	14.00	No
	802.11n(HT20)	36	5180	12.28	14.00	No
		44	5220	12.31	14.00	No
		48	5240	12.14	14.00	No
	802.11n(HT40)	38	5190	7.80	9.50	No
		46	5230	7.65	9.50	No
	802.11ac(VHT20)	36	5180	12.57	14.00	No
		44	5220	12.40	14.00	No
		48	5240	12.16	14.00	No
	802.11ac(VHT40)	38	5190	7.76	9.50	No
		46	5230	7.84	9.50	No
	802.11ac(VHT80)	42	5210	8.15	10.00	No
	5.3 (5.25~5.35)	802.11a	52	5260	<b>12.58</b>	14.00
60			5300	12.46	14.00	No
64			5320	12.10	14.00	No
802.11n(HT20)		52	5260	12.54	14.00	No
		60	5300	12.37	14.00	No
		64	5320	12.28	14.00	No
802.11n(HT40)		54	5270	11.11	12.50	No
		62	5310	10.90	12.50	No
802.11ac(VHT20)		52	5260	12.56	14.00	No
		60	5300	12.41	14.00	No
		64	5320	12.30	14.00	No
802.11ac(VHT40)		54	5270	11.14	12.50	No
		62	5310	11.16	12.50	No
802.11ac(VHT80)		58	5290	9.46	11.00	No
5.6 (5.47~5.725)		802.11a	100	5500	9.54	11.00
	116		5580	9.18	11.00	No
	140		5700	9.27	11.00	No
	802.11n(HT20)	100	5500	9.43	11.00	No
		116	5580	9.04	11.00	No
		140	5700	9.13	11.00	No
	802.11n(HT40)	102	5510	11.01	12.50	No
		118	5590	10.76	12.50	No

		134	5670	10.79	12.50	No
	802.11ac(VHT20)	100	5500	9.34	11.00	No
		116	5580	9.29	11.00	No
		140	5700	9.44	11.00	No
	802.11ac(VHT40)	102	5510	11.02	12.50	No
		118	5590	10.95	12.50	No
		134	5670	11.09	12.50	No
	802.11ac(VHT80)	106	5530	<b>11.35</b>	13.00	Yes
		122	5690	11.29	13.00	No
	5.8 (5.725~5.850)	802.11a	149	5745	14.00	15.50
157			5785	13.68	15.50	No
165			5825	<b>14.02</b>	15.50	Yes
802.11n(HT20)		149	5745	13.86	15.50	No
		157	5785	13.97	15.50	No
		165	5825	13.67	15.50	No
802.11n(HT40)		151	5755	11.31	13.00	No
		159	5795	11.47	13.00	No
802.11ac(VHT20)		149	5745	14.01	15.50	No
		157	5785	13.59	15.50	No
		165	5825	13.77	15.50	No
802.11ac(VHT40)		151	5755	11.60	13.00	No
		159	5795	11.38	13.00	No
802.11ac(VHT80)		155	5775	11.82	13.50	No

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



## 8.8 Bluetooth

Mode	GFSK			π/4-DQPSK		
Channel	0	39	78	0	39	78
Frequency (MHz)	2402	2441	2480	2402	2441	2480
Conducted Power (dBm)	12.49	12.15	<b>12.64</b>	8.78	8.54	9.13
Tune-Up Limit (dBm)	14.00	14.00	14.00	11.00	11.00	11.00
SAR Test Require	YES	YES	YES	NO	NO	NO
Mode	8-DPSK			/		
Channel	0	39	78	/	/	/
Frequency (MHz)	2402	2441	2480	/	/	/
Conducted Power (dBm)	8.84	8.37	9.08	/	/	/
Tune-Up Limit (dBm)	11.00	11.00	11.00	/	/	/
SAR Test Require	NO	NO	NO	/	/	/
Mode	BLE-1Mbps			BLE-2Mbps		
Channel	0	19	39	1	19	38
Frequency (MHz)	2402	2440	2480	2404	2440	2478
Conducted Power (dBm)	5.12	5.59	5.01	5.37	5.71	5.11
Tune-Up Limit (dBm)	9.00	9.00	9.00	9.00	9.00	9.00
SAR Test Require	NO	NO	NO	NO	NO	NO
<p>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 <math>\leq \frac{1}{4}</math> dB higher than the primary mode.</p>						

## 8.9 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 exposure conditions will trigger the body 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 exposure.

**WWAN Reduced power level table**

Reduced level	Receiver state	Transmitting	Antenna	Position
		conditions		
State2	On (head scenario)	WWAN Use Only	Ant.0	Head
			Ant.1	
			Ant.2	
State4	On (head scenario)	WWAN + WIFI/BT	Ant.0	Head
			Ant.1	
			Ant.2	
State1	Off (Body scenario)	WWAN Use Only	Ant.0	Front Side;Back Side; Left Edge;Right Edge;Top Edge;Bottom Edge
			Ant.1	
			Ant.2	
State3	Off (Body scenario)	WWAN + WIFI/BT	Ant.0	Front Side;Back Side; Left Edge;Right Edge;Top Edge;Bottom Edge
			Ant.1	
			Ant.2	

Mode	Antenna	WWAN Antenna								
		Full Power	Receiver on			Receiver off				
			Head		Body-worn		Hotspot	Specific		
			Standalone	Simultaneous transmission	Standalone	Simultaneous transmission	Simultaneous transmission	Standalone	Simultaneous transmission	
				+WIFI/BT		+WIFI/BT				+WIFI/BT
		State2	State4	State1	State3	State3	State1	State3		
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 Slot	Ant.0	32.00	32.00	32.00	32.00	32.00	32.00	32.00		
GPRS850 3 Tx Slot	Ant.0	30.00	30.00	30.00	30.00	30.00	30.00	30.00		
GPRS850 4 Tx Slot	Ant.0	28.00	28.00	28.00	28.00	28.00	28.00	28.00		
EGPRS850 1 Tx Slot	Ant.0	28.50	28.50	28.50	28.50	28.50	28.50	28.50		
EGPRS850 2 Tx Slot	Ant.0	26.50	26.50	26.50	26.50	26.50	26.50	26.50		
EGPRS850 3 Tx Slot	Ant.0	24.50	24.50	24.50	24.50	24.50	24.50	24.50		
EGPRS850 4 Tx Slot	Ant.0	22.50	22.50	22.50	22.50	22.50	22.50	22.50		
GSM 850	Ant.1	33.50	30.50	30.50	33.50	33.50	33.50	33.50		

GPRS850 1 Tx Slot	Ant.1	33.50	30.50	30.50	33.50	33.50	33.50	33.50	33.50
GPRS850 2 Tx Slot	Ant.1	32.00	29.00	29.00	32.00	32.00	32.00	32.00	32.00
GPRS850 3 Tx Slot	Ant.1	30.00	27.00	27.00	30.00	30.00	30.00	30.00	30.00
GPRS850 4 Tx Slot	Ant.1	28.00	25.00	25.00	28.00	28.00	28.00	28.00	28.00
EGPRS850 1 Tx Slot	Ant.1	28.50	25.50	25.50	28.50	28.50	28.50	28.50	28.50
EGPRS850 2 Tx Slot	Ant.1	26.50	23.50	23.50	26.50	26.50	26.50	26.50	26.50
EGPRS850 3 Tx Slot	Ant.1	24.50	21.50	21.50	24.50	24.50	24.50	24.50	24.50
EGPRS850 4 Tx Slot	Ant.1	22.50	19.50	19.50	22.50	22.50	22.50	22.50	22.50
GSM1900	Ant.0	30.50	30.50	30.50	29.50	29.50	29.50	29.50	29.50
GPRS1900 1 Tx Slot	Ant.0	30.50	30.50	30.50	29.50	29.50	29.50	29.50	29.50
GPRS1900 2 Tx Slot	Ant.0	29.00	29.00	29.00	28.00	28.00	28.00	28.00	28.00
GPRS1900 3 Tx Slot	Ant.0	27.00	27.00	27.00	26.00	26.00	26.00	26.00	26.00
GPRS1900 4 Tx Slot	Ant.0	25.00	25.00	25.00	24.00	24.00	24.00	24.00	24.00
EGPRS1900 1 Tx Slot	Ant.0	27.50	27.50	27.50	26.50	26.50	26.50	26.50	26.50
EGPRS1900 2 Tx Slot	Ant.0	25.50	25.50	25.50	24.50	24.50	24.50	24.50	24.50
EGPRS1900 3 Tx Slot	Ant.0	23.50	23.50	23.50	22.50	22.50	22.50	22.50	22.50
EGPRS1900 4 Tx Slot	Ant.0	21.50	21.50	21.50	20.50	20.50	20.50	20.50	20.50
GSM1900	Ant.1	30.50	24.00	24.00	26.75	26.75	26.75	26.75	26.75
GPRS1900 1 Tx Slot	Ant.1	30.50	24.00	24.00	26.75	26.75	26.75	26.75	26.75
GPRS1900 2 Tx Slot	Ant.1	29.00	22.50	22.50	25.25	25.25	25.25	25.25	25.25
GPRS1900 3 Tx Slot	Ant.1	27.00	20.50	20.50	23.25	23.25	23.25	23.25	23.25
GPRS1900 4 Tx Slot	Ant.1	25.00	18.50	18.50	21.25	21.25	21.25	21.25	21.25
EGPRS1900 1 Tx Slot	Ant.1	27.50	21.00	21.00	23.75	23.75	23.75	23.75	23.75
EGPRS1900 2 Tx Slot	Ant.1	25.50	19.00	19.00	21.75	21.75	21.75	21.75	21.75
EGPRS1900 3 Tx Slot	Ant.1	23.50	17.00	17.00	19.75	19.75	19.75	19.75	19.75
EGPRS1900 4 Tx Slot	Ant.1	21.50	15.00	15.00	17.75	17.75	17.75	17.75	17.75
WCDMA Band2 RMC	Ant.0	24.00	24.00	24.00	22.00	22.00	22.00	22.00	22.00
WCDMA Band2 AMR	Ant.0	24.00	24.00	24.00	22.00	22.00	22.00	22.00	22.00
HSDPA Subtest-1	Ant.0	24.50	24.50	24.50	22.50	22.50	22.50	22.50	22.50
HSDPA Subtest-2	Ant.0	24.50	24.50	24.50	22.50	22.50	22.50	22.50	22.50
HSDPA Subtest-3	Ant.0	24.00	24.00	24.00	22.00	22.00	22.00	22.00	22.00
HSDPA Subtest-4	Ant.0	24.00	24.00	24.00	22.00	22.00	22.00	22.00	22.00
DC-HSDPA Subtest-1	Ant.0	24.50	24.50	24.50	22.50	22.50	22.50	22.50	22.50
DC-HSDPA Subtest-2	Ant.0	24.50	24.50	24.50	22.50	22.50	22.50	22.50	22.50
DC-HSDPA Subtest-3	Ant.0	24.00	24.00	24.00	22.00	22.00	22.00	22.00	22.00
DC-HSDPA Subtest-4	Ant.0	24.00	24.00	24.00	22.00	22.00	22.00	22.00	22.00
HSUPA Subtest-1	Ant.0	24.50	24.50	24.50	22.50	22.50	22.50	22.50	22.50
HSUPA Subtest-2	Ant.0	22.50	22.50	22.50	20.50	20.50	20.50	20.50	20.50
HSUPA Subtest-3	Ant.0	23.50	23.50	23.50	21.50	21.50	21.50	21.50	21.50
HSUPA Subtest-4	Ant.0	22.50	22.50	22.50	20.50	20.50	20.50	20.50	20.50
HSUPA Subtest-5	Ant.0	24.50	24.50	24.50	22.50	22.50	22.50	22.50	22.50
HSPA+(16QAM)	Ant.0	22.50	22.50	22.50	20.50	20.50	20.50	20.50	20.50
WCDMA Band2 RMC	Ant.1	24.00	17.00	17.00	20.25	20.25	20.25	20.25	20.25

WCDMA Band2 AMR	Ant.1	24.00	17.00	17.00	20.25	20.25	20.25	20.25	20.25
HSDPA Subtest-1	Ant.1	24.50	17.50	17.50	20.75	20.75	20.75	20.75	20.75
HSDPA Subtest-2	Ant.1	24.50	17.50	17.50	20.75	20.75	20.75	20.75	20.75
HSDPA Subtest-3	Ant.1	24.00	17.00	17.00	20.25	20.25	20.25	20.25	20.25
HSDPA Subtest-4	Ant.1	24.00	17.00	17.00	20.25	20.25	20.25	20.25	20.25
DC-HSDPA Subtest-1	Ant.1	24.50	17.50	17.50	20.75	20.75	20.75	20.75	20.75
DC-HSDPA Subtest-2	Ant.1	24.50	17.50	17.50	20.75	20.75	20.75	20.75	20.75
DC-HSDPA Subtest-3	Ant.1	24.00	17.00	17.00	20.25	20.25	20.25	20.25	20.25
DC-HSDPA Subtest-4	Ant.1	24.00	17.00	17.00	20.25	20.25	20.25	20.25	20.25
HSUPA Subtest-1	Ant.1	24.50	17.50	17.50	20.75	20.75	20.75	20.75	20.75
HSUPA Subtest-2	Ant.1	22.50	15.50	15.50	18.75	18.75	18.75	18.75	18.75
HSUPA Subtest-3	Ant.1	23.50	16.50	16.50	19.75	19.75	19.75	19.75	19.75
HSUPA Subtest-4	Ant.1	22.50	15.50	15.50	18.75	18.75	18.75	18.75	18.75
HSUPA Subtest-5	Ant.1	24.50	17.50	17.50	20.75	20.75	20.75	20.75	20.75
HSPA+(16QAM)	Ant.1	22.50	15.50	15.50	18.75	18.75	18.75	18.75	18.75
WCDMA Band4 RMC	Ant.0	24.00	24.00	24.00	22.00	22.00	22.00	22.00	22.00
WCDMA Band4 AMR	Ant.0	24.00	24.00	24.00	22.00	22.00	22.00	22.00	22.00
HSDPA Subtest-1	Ant.0	24.50	24.50	24.50	22.50	22.50	22.50	22.50	22.50
HSDPA Subtest-2	Ant.0	24.50	24.50	24.50	22.50	22.50	22.50	22.50	22.50
HSDPA Subtest-3	Ant.0	24.00	24.00	24.00	22.00	22.00	22.00	22.00	22.00
HSDPA Subtest-4	Ant.0	24.00	24.00	24.00	22.00	22.00	22.00	22.00	22.00
DC-HSDPA Subtest-1	Ant.0	24.50	24.50	24.50	22.50	22.50	22.50	22.50	22.50
DC-HSDPA Subtest-2	Ant.0	24.50	24.50	24.50	22.50	22.50	22.50	22.50	22.50
DC-HSDPA Subtest-3	Ant.0	24.00	24.00	24.00	22.00	22.00	22.00	22.00	22.00
DC-HSDPA Subtest-4	Ant.0	24.00	24.00	24.00	22.00	22.00	22.00	22.00	22.00
HSUPA Subtest-1	Ant.0	24.50	24.50	24.50	22.50	22.50	22.50	22.50	22.50
HSUPA Subtest-2	Ant.0	22.50	22.50	22.50	20.50	20.50	20.50	20.50	20.50
HSUPA Subtest-3	Ant.0	23.50	23.50	23.50	21.50	21.50	21.50	21.50	21.50
HSUPA Subtest-4	Ant.0	22.50	22.50	22.50	20.50	20.50	20.50	20.50	20.50
HSUPA Subtest-5	Ant.0	24.50	24.50	24.50	22.50	22.50	22.50	22.50	22.50
HSPA+(16QAM)	Ant.0	22.50	22.50	22.50	20.50	20.50	20.50	20.50	20.50
WCDMA Band4 RMC	Ant.1	24.00	17.50	17.50	20.50	20.50	20.50	20.50	20.50
WCDMA Band4 AMR	Ant.1	24.00	17.50	17.50	20.50	20.50	20.50	20.50	20.50
HSDPA Subtest-1	Ant.1	24.50	18.00	18.00	21.00	21.00	21.00	21.00	21.00
HSDPA Subtest-2	Ant.1	24.50	18.00	18.00	21.00	21.00	21.00	21.00	21.00
HSDPA Subtest-3	Ant.1	24.00	17.50	17.50	20.50	20.50	20.50	20.50	20.50
HSDPA Subtest-4	Ant.1	24.00	17.50	17.50	20.50	20.50	20.50	20.50	20.50
DC-HSDPA Subtest-1	Ant.1	24.50	18.00	18.00	21.00	21.00	21.00	21.00	21.00
DC-HSDPA Subtest-2	Ant.1	24.50	18.00	18.00	21.00	21.00	21.00	21.00	21.00
DC-HSDPA Subtest-3	Ant.1	24.00	17.50	17.50	20.50	20.50	20.50	20.50	20.50
DC-HSDPA Subtest-4	Ant.1	24.00	17.50	17.50	20.50	20.50	20.50	20.50	20.50
HSUPA Subtest-1	Ant.1	24.50	18.00	18.00	21.00	21.00	21.00	21.00	21.00
HSUPA Subtest-2	Ant.1	22.50	16.00	16.00	19.00	19.00	19.00	19.00	19.00

HSUPA Subtest-3	Ant.1	23.50	17.00	17.00	20.00	20.00	20.00	20.00	20.00
HSUPA Subtest-4	Ant.1	22.50	16.00	16.00	19.00	19.00	19.00	19.00	19.00
HSUPA Subtest-5	Ant.1	24.50	18.00	18.00	21.00	21.00	21.00	21.00	21.00
HSPA+(16QAM)	Ant.1	22.50	16.00	16.00	19.00	19.00	19.00	19.00	19.00
WCDMA Band5 RMC	Ant.0	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50
WCDMA Band5 AMR	Ant.0	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50
HSDPA Subtest-1	Ant.0	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50
HSDPA Subtest-2	Ant.0	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50
HSDPA Subtest-3	Ant.0	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.50
HSDPA Subtest-4	Ant.0	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.50
DC-HSDPA Subtest-1	Ant.0	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50
DC-HSDPA Subtest-2	Ant.0	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50
DC-HSDPA Subtest-3	Ant.0	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.50
DC-HSDPA Subtest-4	Ant.0	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.50
HSUPA Subtest-1	Ant.0	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50
HSUPA Subtest-2	Ant.0	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50
HSUPA Subtest-3	Ant.0	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.50
HSUPA Subtest-4	Ant.0	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50
HSUPA Subtest-5	Ant.0	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50
HSPA+(16QAM)	Ant.0	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50
WCDMA Band5 RMC	Ant.1	24.50	22.50	22.50	23.00	23.00	23.00	23.00	23.00
WCDMA Band5 AMR	Ant.1	24.50	22.50	22.50	23.00	23.00	23.00	23.00	23.00
HSDPA Subtest-1	Ant.1	24.50	22.50	22.50	23.00	23.00	23.00	23.00	23.00
HSDPA Subtest-2	Ant.1	24.50	22.50	22.50	23.00	23.00	23.00	23.00	23.00
HSDPA Subtest-3	Ant.1	23.50	21.50	21.50	22.00	22.00	22.00	22.00	22.00
HSDPA Subtest-4	Ant.1	23.50	21.50	21.50	22.00	22.00	22.00	22.00	22.00
DC-HSDPA Subtest-1	Ant.1	24.50	22.50	22.50	23.00	23.00	23.00	23.00	23.00
DC-HSDPA Subtest-2	Ant.1	24.50	22.50	22.50	23.00	23.00	23.00	23.00	23.00
DC-HSDPA Subtest-3	Ant.1	23.50	21.50	21.50	22.00	22.00	22.00	22.00	22.00
DC-HSDPA Subtest-4	Ant.1	23.50	21.50	21.50	22.00	22.00	22.00	22.00	22.00
HSUPA Subtest-1	Ant.1	24.50	22.50	22.50	23.00	23.00	23.00	23.00	23.00
HSUPA Subtest-2	Ant.1	22.50	20.50	20.50	21.00	21.00	21.00	21.00	21.00
HSUPA Subtest-3	Ant.1	23.50	21.50	21.50	22.00	22.00	22.00	22.00	22.00
HSUPA Subtest-4	Ant.1	22.50	20.50	20.50	21.00	21.00	21.00	21.00	21.00
HSUPA Subtest-5	Ant.1	24.50	22.50	22.50	23.00	23.00	23.00	23.00	23.00
HSPA+(16QAM)	Ant.1	22.50	20.50	20.50	21.00	21.00	21.00	21.00	21.00
LTE Band2	Ant.0	23.50	23.50	23.50	22.00	22.00	22.00	22.00	22.00
LTE Band2	Ant.1	23.50	16.50	16.50	20.00	20.00	20.00	20.00	20.00
LTE Band4	Ant.0	23.50	23.50	23.50	21.75	21.75	21.75	21.75	21.75
LTE Band4	Ant.1	23.50	17.00	17.00	21.00	21.00	21.00	21.00	21.00
LTE Band4	Ant.2	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50
LTE Band5	Ant.0	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50
LTE Band5	Ant.1	24.50	23.00	23.00	24.50	24.50	24.50	24.50	24.50

LTE Band7	Ant.0	23.50	23.50	23.50	21.50	21.50	21.50	21.50	21.50
LTE Band7	Ant.1	23.50	18.00	18.00	19.00	19.00	19.00	19.00	19.00
LTE Band7	Ant.2	22.50	21.50	21.50	18.00	18.00	18.00	18.00	18.00
LTE Band12	Ant.0	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50
LTE Band12	Ant.1	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50
LTE Band13	Ant.0	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50
LTE Band13	Ant.1	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50
LTE Band17	Ant.0	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50
LTE Band17	Ant.1	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50
LTE Band26	Ant.0	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00
LTE Band26	Ant.1	24.00	22.75	22.75	24.00	24.00	24.00	24.00	24.00
LTE Band66	Ant.0	24.00	24.00	24.00	21.00	21.00	21.00	21.00	21.00
LTE Band66	Ant.1	23.50	17.25	17.25	20.00	20.00	20.00	20.00	20.00
LTE Band66	Ant.2	22.50	22.50	22.50	22.00	22.00	22.00	22.00	22.00
LTE Band38	Ant.0	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00
LTE Band38	Ant.1	24.00	20.00	20.00	23.25	23.25	23.25	23.25	23.25
LTE Band38	Ant.2	23.00	23.00	23.00	20.50	20.50	20.50	20.50	20.50
LTE Band41	Ant.0	24.50	24.50	24.50	23.50	23.50	23.50	23.50	23.50
LTE Band41	Ant.1	24.50	20.25	20.25	22.75	22.75	22.75	22.75	22.75
LTE Band41	Ant.2	23.50	23.50	23.50	20.50	20.50	20.50	20.50	20.50
N5	Ant.0	24.20	24.20	24.20	24.20	24.20	24.20	24.20	24.20
N5	Ant.1	24.20	21.95	21.95	24.20	24.20	24.20	24.20	24.20
N7	Ant.0	23.70	23.70	23.70	22.20	22.20	22.20	22.20	22.20
N7	Ant.1	23.70	17.95	17.95	19.70	19.70	19.70	19.70	19.70
N7	Ant.2	23.20	23.20	23.20	19.95	19.95	19.95	19.95	19.95
N66	Ant.0	24.20	24.20	24.20	23.20	23.20	23.20	23.20	23.20
N66	Ant.1	24.20	18.20	18.20	21.70	21.70	21.70	21.70	21.70
N66	Ant.2	23.20	23.20	23.20	23.20	23.20	23.20	23.20	23.20
N38	Ant.0	24.20	24.20	24.20	22.95	22.95	22.95	22.95	22.95
N38	Ant.1	24.20	19.20	19.20	20.20	20.20	20.20	20.20	20.20
N38	Ant.2	23.20	22.20	22.20	20.20	20.20	20.20	20.20	20.20
N41	Ant.0	24.20	24.20	24.20	21.95	21.95	21.95	21.95	21.95
N41	Ant.1	24.20	17.95	17.95	19.95	19.95	19.95	19.95	19.95
N41	Ant.2	23.20	22.70	22.70	19.45	19.45	19.45	19.45	19.45

EN-DC Configurations	E-UTRA	NR	Antenna Configurations	
	Band	Band	1	2
7A+n5A	LTE Band7	n5	LTE Ant.0	LTE Ant.2
			nr Ant.1	nr Ant.1
66A+n5A	LTE Band66	n5	LTE Ant.0	LTE Ant.2
			nr Ant.1	nr Ant.1
2A+n7A	LTE Band2	n7	LTE Ant.0	LTE Ant.0
			nr Ant.1	nr Ant.2
4A+n7A	LTE Band4	n7	LTE Ant.0	LTE Ant.0
			nr Ant.1	nr Ant.2
5A+n7A	LTE Band5	n7	LTE Ant.0	LTE Ant.0
			nr Ant.1	nr Ant.2
7A+n7A	LTE Band7	n7	LTE Ant.0	LTE Ant.0
			nr Ant.1	nr Ant.2
66A+n7A	LTE Band66	n7	LTE Ant.0	LTE Ant.0
			nr Ant.1	nr Ant.2
2A+n66A	LTE Band2	n66	LTE Ant.0	LTE Ant.0
			nr Ant.1	nr Ant.2
5A+n66A	LTE Band5	n66	LTE Ant.0	LTE Ant.0
			nr Ant.1	nr Ant.2
7A+n66A	LTE Band7	n66	LTE Ant.0	LTE Ant.0
			nr Ant.1	nr Ant.2
66A+n66A	LTE Band66	n66	LTE Ant.0	LTE Ant.0
			nr Ant.1	nr Ant.2
2A+n38A	LTE Band2	n38	LTE Ant.0	LTE Ant.0
			nr Ant.1	nr Ant.2
4A+n38A	LTE Band4	n38	LTE Ant.0	LTE Ant.0
			nr Ant.1	nr Ant.2
5A+n38A	LTE Band5	n38	LTE Ant.0	LTE Ant.0
			nr Ant.1	nr Ant.2
38A+n38A	LTE Band38	n38	LTE Ant.0	LTE Ant.0
			nr Ant.1	nr Ant.2
66A+n38A	LTE Band66	n38	LTE Ant.0	LTE Ant.0
			nr Ant.1	nr Ant.2
2A+n41A	LTE Band2	n41	LTE Ant.0	LTE Ant.0
			nr Ant.1	nr Ant.2
4A+n41A	LTE Band4	n41	LTE Ant.0	LTE Ant.0
			nr Ant.1	nr Ant.2
26A+n41A	LTE Band26	n41	LTE Ant.0	LTE Ant.0
			nr Ant.1	nr Ant.2
41A+n41A	LTE Band41	n41	LTE Ant.0	LTE Ant.0
			nr Ant.1	nr Ant.2

66A+n41A	LTE Band66	n41	LTE Ant.0	LTE Ant.0
			nr Ant.1	nr Ant.2

Mode	Band	Antenna	WWAN Antenna								
			Full Power	Receiver on			Receiver off				
				Head		Body-worn		Hotspot	Specific		
				Standalone	Simultaneous transmission	Standalone	Simultaneous transmission	Simultaneous transmission	Standalone	Simultaneous transmission	
					+WIFI/BT		+WIFI/BT	+WIFI/BT		+WIFI/BT	
Off	State2	State4	State1	State3	State3	State1	State3				
DC_7A+n5A	n5	Ant.1	24.20	19.95	19.95	24.20	24.20	24.20	24.20	24.20	
	LTE Band7	Ant.0	23.50	23.50	23.50	20.00	20.00	20.00	20.00	20.00	
	LTE Band7	Ant.2	22.50	20.00	20.00	15.50	15.50	15.50	15.50	15.50	
DC_66A+n5A	n5	Ant.1	24.20	19.95	19.95	24.20	24.20	24.20	24.20	24.20	
	LTE Band66	Ant.0	23.50	23.50	23.50	18.50	18.50	18.50	18.50	18.50	
	LTE Band66	Ant.2	22.50	22.50	22.50	19.50	19.50	19.50	19.50	19.50	
DC_2A+n7A	n7	Ant.1	23.70	17.70	17.70	18.45	18.45	18.45	18.45	18.45	
	n7	Ant.2	23.20	22.20	22.20	19.45	19.45	19.45	19.45	19.45	
	LTE Band2	Ant.0	23.50	23.50	23.50	19.50	19.50	19.50	19.50	19.50	
DC_4A+n7A	n7	Ant.1	23.70	17.70	17.70	18.45	18.45	18.45	18.45	18.45	
	n7	Ant.2	23.20	22.20	22.20	19.45	19.45	19.45	19.45	19.45	
	LTE Band4	Ant.0	23.50	23.50	23.50	19.50	19.50	19.50	19.50	19.50	
DC_5A+n7A	n7	Ant.1	23.70	17.70	17.70	18.45	18.45	18.45	18.45	18.45	
	n7	Ant.2	23.20	22.20	22.20	19.45	19.45	19.45	19.45	19.45	
	LTE Band5	Ant.0	24.50	24.50	24.50	22.75	22.75	22.75	22.75	22.75	
DC_7A+n7A	n7	Ant.1	23.70	17.70	17.70	18.45	18.45	18.45	18.45	18.45	
	n7	Ant.2	23.20	22.20	22.20	19.45	19.45	19.45	19.45	19.45	
	LTE Band7	Ant.0	23.50	23.50	23.50	20.00	20.00	20.00	20.00	20.00	
DC_66A+n7A	n7	Ant.1	23.70	17.70	17.70	18.45	18.45	18.45	18.45	18.45	
	n7	Ant.2	23.20	22.20	22.20	19.45	19.45	19.45	19.45	19.45	
	LTE Band66	Ant.0	23.50	23.50	23.50	18.50	18.50	18.50	18.50	18.50	
DC_2A+n66A	n66	Ant.1	24.20	17.20	17.20	19.70	19.70	19.70	19.70	19.70	
	n66	Ant.2	23.20	22.20	22.20	22.20	22.20	22.20	22.20	22.20	
	LTE Band2	Ant.0	23.50	23.50	23.50	19.50	19.50	19.50	19.50	19.50	
DC_5A+n66A	n66	Ant.1	24.20	17.20	17.20	19.70	19.70	19.70	19.70	19.70	
	n66	Ant.2	23.20	22.20	22.20	22.20	22.20	22.20	22.20	22.20	
	LTE Band5	Ant.0	24.50	24.50	24.50	22.75	22.75	22.75	22.75	22.75	
DC_7A+n66A	n66	Ant.1	24.20	17.20	17.20	19.70	19.70	19.70	19.70	19.70	
	n66	Ant.2	23.20	22.20	22.20	22.20	22.20	22.20	22.20	22.20	
	LTE Band7	Ant.0	23.50	23.50	23.50	20.00	20.00	20.00	20.00	20.00	
DC_66A+n66A	n66	Ant.1	24.20	17.20	17.20	19.70	19.70	19.70	19.70	19.70	
	n66	Ant.2	23.20	22.20	22.20	22.20	22.20	22.20	22.20	22.20	
	LTE Band66	Ant.0	23.50	23.50	23.50	18.50	18.50	18.50	18.50	18.50	



DC_2A+n38A	n38	Ant.1	24.20	18.20	18.20	19.20	19.20	19.20	19.20	19.20
	n38	Ant.2	23.20	21.20	21.20	18.20	18.20	18.20	18.20	18.20
	LTE Band2	Ant.0	23.50	23.50	23.50	19.50	19.50	19.50	19.50	19.50
DC_4A+n38A	n38	Ant.1	24.20	18.20	18.20	19.20	19.20	19.20	19.20	19.20
	n38	Ant.2	23.20	21.20	21.20	18.20	18.20	18.20	18.20	18.20
	LTE Band4	Ant.0	23.50	23.50	23.50	19.50	19.50	19.50	19.50	19.50
DC_5A+n38A	n38	Ant.1	24.20	18.20	18.20	19.20	19.20	19.20	19.20	19.20
	n38	Ant.2	23.20	21.20	21.20	18.20	18.20	18.20	18.20	18.20
	LTE Band5	Ant.0	24.50	24.50	24.50	22.75	22.75	22.75	22.75	22.75
DC_38A+n38A	n38	Ant.1	24.20	18.20	18.20	19.20	19.20	19.20	19.20	19.20
	n38	Ant.2	23.20	21.20	21.20	18.20	18.20	18.20	18.20	18.20
	LTE Band38	Ant.0	24.00	24.00	24.00	22.75	22.75	22.75	22.75	22.75
DC_66A+n38A	n38	Ant.1	24.20	18.20	18.20	19.20	19.20	19.20	19.20	19.20
	n38	Ant.2	23.20	21.20	21.20	18.20	18.20	18.20	18.20	18.20
	LTE Band66	Ant.0	23.50	23.50	23.50	18.50	18.50	18.50	18.50	18.50
DC_2A+n41A	n41	Ant.1	24.20	16.95	16.95	17.95	17.95	17.95	17.95	17.95
	n41	Ant.2	23.20	21.70	21.70	17.45	17.45	17.45	17.45	17.45
	LTE Band2	Ant.0	23.50	23.50	23.50	19.50	19.50	19.50	19.50	19.50
DC_4A+n41A	n41	Ant.1	24.20	16.95	16.95	17.95	17.95	17.95	17.95	17.95
	n41	Ant.2	23.20	21.70	21.70	17.45	17.45	17.45	17.45	17.45
	LTE Band4	Ant.0	23.50	23.50	23.50	19.50	19.50	19.50	19.50	19.50
DC_26A+n41A	n41	Ant.1	24.20	16.95	16.95	17.95	17.95	17.95	17.95	17.95
	n41	Ant.2	23.20	21.70	21.70	17.45	17.45	17.45	17.45	17.45
	LTE Band26	Ant.0	24.00	24.00	24.00	21.50	21.50	21.50	21.50	21.50
DC_41A+n41A	n41	Ant.1	24.20	16.95	16.95	17.95	17.95	17.95	17.95	17.95
	n41	Ant.2	23.20	21.70	21.70	17.45	17.45	17.45	17.45	17.45
	LTE Band41	Ant.0	24.50	24.50	24.50	23.00	23.00	23.00	23.00	23.00
DC_66A+n41A	n41	Ant.1	24.20	16.95	16.95	17.95	17.95	17.95	17.95	17.95
	n41	Ant.2	23.20	21.70	21.70	17.45	17.45	17.45	17.45	17.45
	LTE Band66	Ant.0	23.50	23.50	23.50	18.50	18.50	18.50	18.50	18.50

**WLAN Reduced power level table**

Reduced level	Receiver state	Transmitting	Antenna	Position
		conditions		
Level 1	On (head scenario)	2.4G/5G WIFI	Ant.8	Head
Level 2	On (head scenario)	5G WIFI+BT	Ant.8	Head
Level 3	On (head scenario)	2.4G/5G WIFI+WWAN	Ant.8	Head
Level 4	On (head scenario)	5G WIFI+BT+WWAN	Ant.8	Head
Level 5	Off (Body scenario)	2.4G/5G WIFI	Ant.8	Front Side;Back Side; Left Edge;Right Edge;Top Edge;Bottom Edge
Level 6	Off (Body scenario)	5G WIFI+BT	Ant.8	Front Side;Back Side; Left Edge;Right Edge;Top Edge;Bottom Edge
Level 7	Off (Body scenario)	2.4G/5G WIFI+WWAN	Ant.8	Front Side;Back Side; Left Edge;Right Edge;Top Edge;Bottom Edge
Level 8	Off (Body scenario)	5G WIFI+BT+WWAN	Ant.8	Front Side;Back Side; Left Edge;Right Edge;Top Edge;Bottom Edge

Mode	WLAN Antenna																
	Power	Receiver on				Receiver off											
		Standalone	Head			Standalone	Body-worn			Hotspot			Specific				
			Simultaneous transmission				Simultaneous transmission			Simultaneous transmission			Simultaneous transmission				
			5G	2.4G/5G	5G		5G	2.4G/5G	5G	5G	2.4G/5G	5G	5G	2.4G/5G	5G		
WIFI+BT	WIFI+WWAN	WIFI+BT+WWAN	WIFI+BT	WIFI+WWAN	WIFI+BT+WWAN	WIFI+BT	WIFI+WWAN	WIFI+BT+WWAN	WIFI+BT	WIFI+WWAN	WIFI+BT+WWAN	WIFI+BT	WIFI+WWAN	WIFI+BT+WWAN			
Off	Level1	Level2	Level3	Level4	Level5	Level6	Level7	Level8	Level6	Level7	Level8	Level5	Level6	Level7	Level8		
2.4G WLAN 802.11b	16.00	16.00	/	14.50	/	16.00	/	16.00	/	/	16.00	/	16.00	/	16.00	/	
2.4G WLAN 802.11g	8.00	8.00	/	6.50	/	8.00	/	8.00	/	/	8.00	/	8.00	/	8.00	/	
2.4G WLAN 802.11n20	8.00	8.00	/	6.50	/	8.00	/	8.00	/	/	8.00	/	8.00	/	8.00	/	
2.4G WLAN 802.11n40	10.50	10.50	/	9.00	/	10.50	/	10.50	/	/	10.50	/	10.50	/	10.50	/	
2.4G WLAN 802.11ac20	8.00	8.00	/	6.50	/	8.00	/	8.00	/	/	8.00	/	8.00	/	8.00	/	
2.4G WLAN 802.11ac40	10.50	10.50	/	9.00	/	10.50	/	10.50	/	/	10.50	/	10.50	/	10.50	/	
5.2G WLAN 802.11a	17.00	16.00	16.00	13.00	13.00	17.00	17.00	14.00	14.00	17.00	14.00	14.00	17.00	17.00	14.00	14.00	
5.2G WLAN 802.11n20	17.00	16.00	16.00	13.00	13.00	17.00	17.00	14.00	14.00	17.00	14.00	14.00	17.00	17.00	14.00	14.00	
5.2G WLAN 802.11n40	12.50	11.50	11.50	8.50	8.50	12.50	12.50	9.50	9.50	12.50	9.50	9.50	12.50	12.50	9.50	9.50	
5.2G WLAN 802.11ac20	17.00	16.00	16.00	13.00	13.00	17.00	17.00	14.00	14.00	17.00	14.00	14.00	17.00	17.00	14.00	14.00	
5.2G WLAN 802.11ac40	12.50	11.50	11.50	8.50	8.50	12.50	12.50	9.50	9.50	12.50	9.50	9.50	12.50	12.50	9.50	9.50	

5.2G WLAN 802.11ac80	13.00	12.00	12.00	9.00	9.00	13.00	13.00	10.00	10.00	13.00	10.00	10.00	13.00	13.00	10.00	10.00
5.3G WLAN 802.11a	16.50	16.00	16.00	13.00	13.00	16.50	16.50	14.00	14.00	16.50	14.00	14.00	16.50	16.50	14.00	14.00
5.3G WLAN 802.11n20	16.50	16.00	16.00	13.00	13.00	16.50	16.50	14.00	14.00	16.50	14.00	14.00	16.50	16.50	14.00	14.00
5.3G WLAN 802.11n40	15.00	14.50	14.50	11.50	11.50	15.00	15.00	12.50	12.50	15.00	12.50	12.50	15.00	15.00	12.50	12.50
5.3G WLAN 802.11ac20	16.50	16.00	16.00	13.00	13.00	16.50	16.50	14.00	14.00	16.50	14.00	14.00	16.50	16.50	14.00	14.00
5.3G WLAN 802.11ac40	15.00	14.50	14.50	11.50	11.50	15.00	15.00	12.50	12.50	15.00	12.50	12.50	15.00	15.00	12.50	12.50
5.3G WLAN 802.11ac80	13.50	13.00	13.00	10.00	10.00	13.50	13.50	11.00	11.00	13.50	11.00	11.00	13.50	13.50	11.00	11.00
5.6G WLAN 802.11a	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00
5.6G WLAN 802.11n20	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00
5.6G WLAN 802.11n40	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50
5.6G WLAN 802.11ac20	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00
5.6G WLAN 802.11ac40	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50
5.6G WLAN 802.11ac80	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00
5.8G WLAN 802.11a	17.00	15.50	15.50	12.50	12.50	17.00	17.00	15.50	15.50	17.00	15.50	15.50	17.00	17.00	15.50	15.50
5.8G WLAN 802.11n20	17.00	15.50	15.50	12.50	12.50	17.00	17.00	15.50	15.50	17.00	15.50	15.50	17.00	17.00	15.50	15.50
5.8G WLAN 802.11n40	14.50	13.00	13.00	10.00	10.00	14.50	14.50	13.00	13.00	14.50	13.00	13.00	14.50	14.50	13.00	13.00
5.8G WLAN 802.11ac20	17.00	15.50	15.50	12.50	12.50	17.00	17.00	15.50	15.50	17.00	15.50	15.50	17.00	17.00	15.50	15.50
5.8G WLAN 802.11ac40	14.50	13.00	13.00	10.00	10.00	14.50	14.50	13.00	13.00	14.50	13.00	13.00	14.50	14.50	13.00	13.00
5.8G LAN 802.11ac80	15.00	13.50	13.50	10.50	10.50	15.00	15.00	13.50	13.50	15.00	13.50	13.50	15.00	15.00	13.50	13.50
Bluetooth	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00

## 9. UL duty cycle detection mechanism specification

### 9.1 General description of UL duty cycle detection mechanism

We have a mobile phone device supporting the UL duty cycle detection mechanism for LTE TDD & NR5G (including FR1 SA and FR1 ENDC), the rest RAT will not apply. The main purpose is to distinguish duty cycle of UL symbol and apply the relevant power levels accordingly. The main purpose is to provide enhanced user experience while meeting the SAR compliance for transmission scheduling.

**Table 1: Summary of UL duty cycle detection mechanism (Note 1)**

UL duty cycle	$P_{cmax}$
k1%	$P_{max} - \text{Max}(P_{SAR} - P_{offset@k1}, 0)$
k2%	$P_{max} - \text{Max}(P_{SAR} - P_{offset@k2}, 0)$
...	...
kn% (max UL duty cycle)	$P_{max} - \text{Max}(P_{SAR} - P_{offset@kn}, 0)$

Note 1 (See note 4 for more information):

UL duty cycle: Uplink duty cycle.

$P_{cmax}$ : Power level for each UL duty cycle.

$P_{max}$ : Max power level.

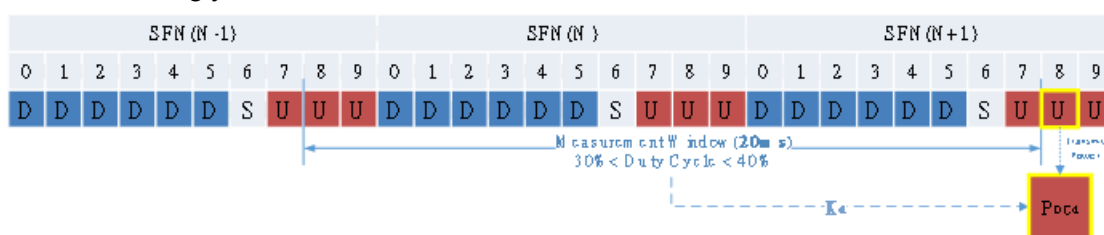
$P_{SAR}$ : A pre-defined value which is used to derive the  $P_{cmax}$  to ensure time-average power level to associates with SAR compliance

$P_{offset}$ : The theoretical value of power offset calculated according to the duty cycle K parameter, equals to  $-[10 \cdot \log(\text{TX duty cycle})]$

The Radio Communication Tester measures peak and average output power for active the symbols. For SAR the timebased average power( $P_{cmax}$  frame-average) is relevant. The difference in between depends on the duty cycle of the symbols.

### 9.2 UL duty cycle detection mechanism clarifications

UL duty cycle detection mechanism, based on MTK platform. There is sliding windows moving by one slot and real-time calculate the percentage of the symbols with transmit, then apply the relevant power levels accordingly.



The software of the device has standalone module (Note 2) to monitor the UL scheduling with sliding windows and caculate the current transmission percentage k, and apply the relevant power levels accordingly on next UL slot.

Note 2: This standalone module only monitor LTE TDD & NR5G (including FR1 SA and FR1 ENDC), the rest RAT will not apply.

The device offers max to 9 sets power offset NVs for each NR5G band, and 6 sets power offset NVs for each LTE TDD band. These NVs offer addition power offset for all LTE TDD/NR bands. When certain set

NVs works,  $P_{cmax}$  will calculate with below funtion:

$$P_{cmax} = P_{max} - \text{Max}(P_{SAR} - P_{offset}@kn, 0) \text{ ( Note 3)}$$

Note 3 (See note 4 for more information):

$P_{cmax}$ : Power level for each UL duty cycle.

$P_{max}$ : Max power level.

$P_{SAR}$ : A pre-defined value which is used to derive the  $P_{cmax}$  to ensure time-average power level to associates with SAR compliance

$P_{offset}$ : The theoretical value of power offset calculated according to the duty cycle K parameter, equals to  $-[10*\log(TX \text{ duty cycle})]$

More details information followings

**Table 2: NR5G bands (Note 4)**

UL duty cycle	Max UL duty cycle	Max UL duty cycle factor	$P_{offset}$
$0\% \leq K1 \leq 10\%$	10%	-10.00	10.00
$10\% < K2 \leq 20\%$	20%	-6.99	6.50
$20\% < K3 \leq 30\%$	30%	-5.23	5.00
$30\% < K4 \leq 40\%$	40%	-3.98	3.50
$40\% < K5 \leq 50\%$	50%	-3.01	3.00
$50\% < K6 \leq 60\%$	60%	-2.22	2.00
$60\% < K7 \leq 70\%$	70%	-1.55	1.50
$70\% < K8 \leq 80\%$	80%	-0.97	0.50
$80\% < K9 \leq 100\%$	100%	0.00	0.00

Conducted Power in each UL duty cycle for each NR band please refer the document "BL-SZ2460066-AD".

#### Note 4:

UL duty cycle: The device offers 9 sets UL duty cycle for each NR5G band. determined by UL symbol numbers percentage during dedicated period, 5G NR UL duty cycle range from 0% to 100%, is an invariant parameter.

Max UL duty cycle: Maximum duty cycle for each UL duty cycle interval sets, is an invariant parameter. This is a conservative approach

Max UL duty cycle factor=  $10*\log(\text{Max UL duty cycle})$ .

$P_{offset}$  = The theoretical value of power offset calculated according to the maximum duty cycle K parameter, is an invariant parameter. The 5G NR values are shown in Table 2, and the 4G LTE TDD values are shown in Table 3.

$P_{max}$  : Max power level, the maximum power value of each band is different, defined by factory.

$P_{SAR}$ : Actual max power offset, the max power offset of each band is different, defined by factory. The value of  $P_{SAR}$  is affected by the SAR value of the maximum UL duty cycle configuration(5G NR is 100%, LTE TDD is 63.3%). For example, the SAR of the UE meets the standard requirements under the maximum UL duty cycle and the highest power ( $P_{max}-0$ ) configuration, and  $P_{SAR} = 0\text{dB}$ ; the SAR of the UE meets the standard requirements under the maximum UL duty cycle and the highest power ( $P_{max}-4$ ) configuration, and  $P_{SAR} = 4\text{dB}$ .

$P_{cmax}$ : Power level for each UL duty cycle, the power level of each band is different,  $P_{cmax} = P_{max} - \text{Max}(P_{SAR} - P_{offset}@kn, 0)$ , the larger UL duty cycle, the lower power level; the smaller UL duty cycle, the higher power level, but will not greater than the full power of UE.

$P_{cmax}$  frame-average:  $P_{cmax}$  frame-average =  $P_{cmax} + \text{Max UL duty cycle factor}$ , SAR test reduction for 9 sets UL duty cycle is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions.

For 5G NR test, using factory test mode to perform SAR with the highest P<sub>cm</sub> frame-average configuration, and UL duty cycle =100%.

**Table 3: LTE TDD bands (Note 5)**

UL duty cycle	Max UL duty cycle	Max UL duty cycle factor	P <sub>offset</sub>
0% < K1 ≤ 20%	11.7%	-9.32	5.00
20% < K2 ≤ 30%	23.3%	-6.33	3.50
30% < K3 ≤ 40%	31.7%	-4.99	2.00
40% < K4 ≤ 50%	43.3%	-3.64	1.50
50% < K5 ≤ 60%	53.3%	-2.73	0.50
60% < K6 ≤ 63.3%	63.3%	-1.99	0.00

Conducted Power in each UL duty cycle for each LTE TDD band please refer the document "BL-SZ2460066-AD".

**Note 5:**

UL duty cycle: The maximum uplink duty cycle of LTE TDD is 63.3%.

TDD LTE Band supports 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations and Table 4.2-1 for Special subframe configurations.

Configuration	Periodicity	Subframe number											max UL duty cycle
		0	1	2	3	4	5	6	7	8	9		
0	5 ms	D	S	U	U	U	D	S	U	U	U	63.3%	
1	5 ms	D	S	U	U	D	D	S	U	U	D	43.3%	
2	5 ms	D	S	U	D	D	D	S	U	D	D	23.3%	
3	10 ms	D	S	U	U	U	D	D	D	D	D	31.7%	
4	10 ms	D	S	U	U	D	D	D	D	D	D	21.7%	
5	10 ms	D	S	U	D	D	D	D	D	D	D	11.7%	
6	5 ms	D	S	U	U	U	D	S	U	U	D	53.3%	

For LTE TDD test, power class using uplink-downlink configuration 0 and special subframe configuration 7 for frame structure type to perform SAR with the highest P<sub>cm</sub> frame-average configuration, and UL duty cycle =63.3%.

### 9.3 SAR test Plan

For each band, the conducted power for each duty cycle has been measured. The SAR evaluation uses the highest specified time-averaged output power configuration.

(3.1) For 5G NR test, using factory test mode to perform SAR with the highest Frame-Averaged P<sub>cm</sub> configuration, and UL duty cycle =100%.

(3.2) For LTE TDD test, power class using uplink-downlink configuration 0 and special subframe configuration 7 for frame structure type to perform SAR with the highest Frame-Averaged P<sub>cm</sub> configuration, and UL duty cycle =63.3%.

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## 10 TEST EXCLUSION CONSIDERATION

For antenna location and support bands please refer the document "BL-SZ2460066-AI EUT 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
Ant.8	<25	<25	<25	>25	<25	>25

Note: 1.Per KDB 941225 DO6,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	State2&4	DATA 2slots	Left Cheek	0	251	848.8	-0.11	0.368	27.16	29.00	1.528	0.562	/
	State2&4		Left Tilt	0	251	848.8	-0.09	0.296	27.16	29.00	1.528	0.452	/
	State2&4		Right Cheek	0	251	848.8	0.00	0.610	27.16	29.00	1.528	<b>0.932</b>	1#
	State2&4		Right Tilt	0	251	848.8	-0.06	0.423	27.16	29.00	1.528	0.646	/
	State2&4		Right Cheek	0	128	824.2	0.07	0.509	27.12	29.00	1.542	0.785	/
	State2&4		Right Cheek	0	190	836.6	0.08	0.519	27.08	29.00	1.556	0.808	/
Ant.0	State2&4	DATA 2slots	Left Cheek	0	251	848.8	0.01	0.140	30.38	32.00	1.452	0.203	/
	State2&4		Left Tilt	0	251	848.8	0.00	0.079	30.38	32.00	1.452	0.115	/
	State2&4		Right Cheek	0	251	848.8	-0.01	0.120	30.38	32.00	1.452	0.174	/
	State2&4		Right Tilt	0	251	848.8	0.15	0.066	30.38	32.00	1.452	0.096	/
<b>Body-worn</b>													
Ant.1	State1&3	DATA	Front Side	15	251	848.8	0.05	0.101	30.19	32.00	1.517	0.153	/
	State1&3	2slots	Back Side	15	251	848.8	0.07	0.112	30.19	32.00	1.517	0.170	/
Ant.0	State1&3	DATA	Front Side	15	251	848.8	-0.05	0.099	30.38	32.00	1.452	0.144	/
	State1&3	2slots	Back Side	15	251	848.8	-0.01	0.144	30.38	32.00	1.452	<b>0.209</b>	2#
<b>Hotspot</b>													
Ant.1	State3	DATA 2slots	Front Side	10	251	848.8	0.11	0.158	30.19	32.00	1.517	0.240	/
	State3		Back Side	10	251	848.8	0.04	0.231	30.19	32.00	1.517	0.350	/
	State3		Left Edge	10	251	848.8	-0.13	0.076	30.19	32.00	1.517	0.115	/
	State3		Right Edge	10	251	848.8	0.00	0.107	30.19	32.00	1.517	0.162	/
	State3		Top Edge	10	251	848.8	0.15	0.231	30.19	32.00	1.517	0.350	/
Ant.0	State3	DATA 2slots	Front Side	10	251	848.8	0.15	0.139	30.38	32.00	1.452	0.202	/
	State3		Back Side	10	251	848.8	-0.02	0.283	30.38	32.00	1.452	<b>0.411</b>	3#
	State3		Left Edge	10	251	848.8	-0.03	0.000	30.38	32.00	1.452	0.000	/
	State3		Right Edge	10	251	848.8	0.05	0.130	30.38	32.00	1.452	0.189	/
	State3		Bottom Edge	10	251	848.8	0.13	0.199	30.38	32.00	1.452	0.289	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													



### 11.2GSM 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	State2&4	DATA 2slots	Left Cheek	0	661	1880	0.00	0.231	21.00	22.50	1.413	0.326	/
	State2&4		Left Tilt	0	661	1880	-0.10	0.311	21.00	22.50	1.413	0.439	/
	State2&4		Right Cheek	0	661	1880	-0.01	0.385	21.00	22.50	1.413	0.544	/
	State2&4		Right Tilt	0	661	1880	0.00	0.564	21.00	22.50	1.413	<b>0.797</b>	<b>4#</b>
Ant.0	State2&4	DATA 2slots	Left Cheek	0	512	1850.2	0.11	0.087	27.31	29.00	1.476	0.128	/
	State2&4		Left Tilt	0	512	1850.2	0.05	0.045	27.31	29.00	1.476	0.066	/
	State2&4		Right Cheek	0	512	1850.2	-0.12	0.073	27.31	29.00	1.476	0.108	/
	State2&4		Right Tilt	0	512	1850.2	-0.10	0.049	27.31	29.00	1.476	0.072	/
<b>Body-worn</b>													
Ant.1	State1&3	DATA	Front Side	15	661	1880	0.08	0.085	23.85	25.25	1.380	0.117	/
	State1&3	2slots	Back Side	15	661	1880	0.08	0.134	23.85	25.25	1.380	0.185	/
Ant.0	State1&3	DATA	Front Side	15	661	1880	0.09	0.120	26.16	28.00	1.528	0.183	/
	State1&3	2slots	Back Side	15	661	1880	-0.01	0.189	26.16	28.00	1.528	<b>0.289</b>	<b>5#</b>
<b>Hotspot</b>													
Ant.1	State3	DATA 2slots	Front Side	10	661	1880	-0.01	0.218	23.85	25.25	1.380	0.301	/
	State3		Back Side	10	661	1880	-0.05	0.320	23.85	25.25	1.380	0.442	/
	State3		Left Edge	10	661	1880	-0.10	0.022	23.85	25.25	1.380	0.030	/
	State3		Right Edge	10	661	1880	0.05	0.046	23.85	25.25	1.380	0.063	/
	State3		Top Edge	10	661	1880	0.03	0.453	23.85	25.25	1.380	0.625	/
Ant.0	State3	DATA 2slots	Front Side	10	661	1880	-0.04	0.244	26.16	28.00	1.528	0.373	/
	State3		Back Side	10	661	1880	-0.07	0.392	26.16	28.00	1.528	0.599	/
	State3		Left Edge	10	661	1880	-0.02	0.077	26.16	28.00	1.528	0.118	/
	State3		Right Edge	10	661	1880	0.13	0.062	26.16	28.00	1.528	0.095	/
	State3		Bottom Edge	10	661	1880	0.00	0.469	26.16	28.00	1.528	<b>0.717</b>	<b>6#</b>

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)	10g 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	State1&3	DATA 2slots	Top Edge	0	661	1880	0.02	1.060	23.85	25.25	1.380	<b>1.463</b>	<b>7#</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	State2&4	RMC	Left Cheek	0	9400	1880	-0.08	0.411	16.51	17.00	1.119	0.460	/
	State2&4		Left Tilt	0	9400	1880	0.15	0.525	16.51	17.00	1.119	0.587	/
	State2&4		Right Cheek	0	9400	1880	0.01	0.636	16.51	17.00	1.119	0.712	/
	State2&4		Right Tilt	0	9400	1880	-0.13	0.806	16.51	17.00	1.119	0.902	/
	State2&4		Right Tilt	0	9262	1852.4	0.02	0.894	16.50	17.00	1.122	<b>1.003</b>	8#
	State2&4		Right Tilt	0	9538	1907.6	0.09	0.734	16.50	17.00	1.122	0.824	/
Ant.0	State2&4	RMC	Left Cheek	0	9400	1880	-0.15	0.159	23.42	24.00	1.143	0.182	/
	State2&4		Left Tilt	0	9400	1880	-0.09	0.082	23.42	24.00	1.143	0.094	/
	State2&4		Right Cheek	0	9400	1880	-0.04	0.147	23.42	24.00	1.143	0.168	/
	State2&4		Right Tilt	0	9400	1880	0.06	0.093	23.42	24.00	1.143	0.106	/
<b>Body-worn</b>													
Ant.1	State1&3	RMC	Front Side	15	9400	1880	-0.02	0.164	19.78	20.25	1.114	0.183	/
	State1&3		Back Side	15	9400	1880	-0.01	0.254	19.78	20.25	1.114	0.283	/
Ant.0	State1&3	RMC	Front Side	15	9400	1880	0.07	0.187	21.44	22.00	1.138	0.213	/
	State1&3		Back Side	15	9400	1880	-0.01	0.273	21.44	22.00	1.138	<b>0.311</b>	9#
<b>Hotspot</b>													
Ant.1	State3	RMC	Front Side	10	9400	1880	-0.15	0.360	19.78	20.25	1.114	0.401	/
	State3		Back Side	10	9400	1880	-0.02	0.527	19.78	20.25	1.114	0.587	/
	State3		Left Edge	10	9400	1880	0.01	0.037	19.78	20.25	1.114	0.041	/
	State3		Right Edge	10	9400	1880	-0.03	0.068	19.78	20.25	1.114	0.076	/
	State3		Top Edge	10	9400	1880	0.01	0.712	19.78	20.25	1.114	<b>0.793</b>	10#
Ant.0	State3	RMC	Front Side	10	9400	1880	0.09	0.302	21.44	22.00	1.138	0.344	/
	State3		Back Side	10	9400	1880	-0.12	0.598	21.44	22.00	1.138	0.681	/
	State3		Left Edge	10	9400	1880	0.06	0.168	21.44	22.00	1.138	0.191	/
	State3		Right Edge	10	9400	1880	0.15	0.077	21.44	22.00	1.138	0.088	/
	State3		Bottom Edge	10	9400	1880	0.01	0.683	21.44	22.00	1.138	0.777	/
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)	10g 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	State1&3	RMC	Back Side	0	9400	1880	0.14	0.978	19.78	20.25	1.114	1.089	/
	State1&3		Top Edge	0	9400	1880	0.08	1.580	19.78	20.25	1.114	1.760	/
Ant.0	State1&3	RMC	Back Side	0	9400	1880	0.01	1.920	21.44	22.00	1.138	<b>2.185</b>	11#
	State1&3		Bottom Edge	0	9400	1880	-0.11	1.490	21.44	22.00	1.138	1.696	/
	State1&3		Back Side	0	9262	1852.4	0.12	1.800	21.43	22.00	1.140	2.052	/
	State1&3		Back Side	0	9538	1907.6	0.08	1.720	21.38	22.00	1.153	1.983	/
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	State2&4	RMC	Left Cheek	0	1312	1712.4	-0.11	0.497	17.24	17.50	1.062	0.528	/
	State2&4		Left Tilt	0	1312	1712.4	0.13	0.618	17.24	17.50	1.062	0.656	/
	State2&4		Right Cheek	0	1312	1712.4	-0.06	0.799	17.24	17.50	1.062	0.849	/
	State2&4		Right Tilt	0	1312	1712.4	0.03	0.960	17.24	17.50	1.062	1.020	/
	State2&4		Right Cheek	0	1412	1732.4	0.03	0.810	17.18	17.50	1.076	0.872	/
	State2&4		Right Cheek	0	1513	1752.6	-0.06	0.792	17.19	17.50	1.074	0.851	/
	State2&4		Right Tilt	0	1412	1732.4	0.00	0.984	17.18	17.50	1.076	<b>1.059</b>	12#
	State2&4		Right Tilt	0	1513	1752.6	-0.03	0.958	17.19	17.50	1.074	1.029	/
Ant.0	State2&4	RMC	Left Cheek	0	1312	1712.4	-0.09	0.194	23.47	24.00	1.130	0.219	/
	State2&4		Left Tilt	0	1312	1712.4	-0.15	0.091	23.47	24.00	1.130	0.103	/
	State2&4		Right Cheek	0	1312	1712.4	-0.09	0.095	23.47	24.00	1.130	0.107	/
	State2&4		Right Tilt	0	1312	1712.4	-0.09	0.093	23.47	24.00	1.130	0.105	/
<b>Body-worn</b>													
Ant.1	State1&3	RMC	Front Side	15	1312	1712.4	-0.06	0.192	20.24	20.50	1.062	0.204	/
	State1&3		Back Side	15	1312	1712.4	0.14	0.246	20.24	20.50	1.062	0.261	/
Ant.0	State1&3	RMC	Front Side	15	1312	1712.4	0.04	0.216	21.56	22.00	1.107	0.239	/
	State1&3		Back Side	15	1312	1712.4	-0.01	0.345	21.56	22.00	1.107	<b>0.382</b>	13#
<b>Hotspot</b>													
Ant.1	State3	RMC	Front Side	10	1312	1712.4	0.08	0.305	20.24	20.50	1.062	0.324	/
	State3		Back Side	10	1312	1712.4	-0.13	0.392	20.24	20.50	1.062	0.416	/
	State3		Left Edge	10	1312	1712.4	-0.07	0.036	20.24	20.50	1.062	0.038	/
	State3		Right Edge	10	1312	1712.4	-0.06	0.065	20.24	20.50	1.062	0.069	/
	State3		Top Edge	10	1312	1712.4	0.04	0.620	20.24	20.50	1.062	0.658	/
Ant.0	State3	RMC	Front Side	10	1312	1712.4	0.06	0.332	21.56	22.00	1.107	0.368	/
	State3		Back Side	10	1312	1712.4	0.02	0.610	21.56	22.00	1.107	0.675	/
	State3		Left Edge	10	1312	1712.4	0.03	0.130	21.56	22.00	1.107	0.144	/
	State3		Right Edge	10	1312	1712.4	0.00	0.081	21.56	22.00	1.107	0.090	/
	State3		Bottom Edge	10	1312	1712.4	0.00	0.663	21.56	22.00	1.107	<b>0.734</b>	14#
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)	10g 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	State1&3	RMC	Top Edge	0	1312	1712.4	0.09	1.510	20.24	20.50	1.062	1.604	/
Ant.0	State1&3	RMC	Back Side	0	1312	1712.4	-0.01	2.120	21.56	22.00	1.107	<b>2.347</b>	15#
	State1&3		Bottom Edge	0	1312	1712.4	0.05	1.780	21.56	22.00	1.107	1.970	/
	State1&3		Back Side	0	1412	1732.4	-0.01	2.020	21.50	22.00	1.122	2.266	/
	State1&3		Back Side	0	1513	1752.6	-0.15	1.980	21.50	22.00	1.122	2.222	/
	State1&3		Bottom Edge	0	1412	1732.4	0.02	1.670	21.50	22.00	1.122	1.874	/
	State1&3		Bottom Edge	0	1513	1752.6	-0.08	1.640	21.50	22.00	1.122	1.840	/

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	State2&4	RMC	Left Cheek	0	4182	836.4	0.07	0.418	21.11	22.50	1.377	0.576	/
	State2&4		Left Tilt	0	4182	836.4	-0.03	0.405	21.11	22.50	1.377	0.558	/
	State2&4		Right Cheek	0	4182	836.4	0.06	0.620	21.11	22.50	1.377	0.854	/
	State2&4		Right Tilt	0	4182	836.4	-0.06	0.579	21.11	22.50	1.377	0.797	/
	State2&4		Right Cheek	0	4132	826.4	-0.01	0.690	21.11	22.50	1.377	<b>0.950</b>	16#
	State2&4		Right Cheek	0	4233	846.6	-0.14	0.644	21.08	22.50	1.387	0.893	/
Ant.0	State2&4	RMC	Left Cheek	0	4233	846.6	-0.13	0.190	23.48	24.50	1.265	0.240	/
	State2&4		Left Tilt	0	4233	846.6	-0.13	0.098	23.48	24.50	1.265	0.124	/
	State2&4		Right Cheek	0	4233	846.6	-0.05	0.140	23.48	24.50	1.265	0.177	/
	State2&4		Right Tilt	0	4233	846.6	0.13	0.068	23.48	24.50	1.265	0.086	/
<b>Body-worn</b>													
Ant.1	State1&3	RMC	Front Side	15	4182	836.4	0.12	0.079	21.64	23.00	1.368	0.108	/
	State1&3		Back Side	15	4182	836.4	0.00	0.091	21.64	23.00	1.368	0.124	/
Ant.0	State1&3	RMC	Front Side	15	4233	846.6	-0.12	0.118	23.48	24.50	1.265	0.149	/
	State1&3		Back Side	15	4233	846.6	0.00	0.161	23.48	24.50	1.265	<b>0.204</b>	17#
<b>Hotspot</b>													
Ant.1	State3	RMC	Front Side	10	4182	836.4	0.10	0.130	21.64	23.00	1.368	0.178	/
	State3		Back Side	10	4182	836.4	-0.04	0.178	21.64	23.00	1.368	0.244	/
	State3		Left Edge	10	4182	836.4	-0.01	0.079	21.64	23.00	1.368	0.108	/
	State3		Right Edge	10	4182	836.4	0.06	0.084	21.64	23.00	1.368	0.115	/
	State3		Top Edge	10	4182	836.4	0.11	0.154	21.64	23.00	1.368	0.211	/
Ant.0	State3	RMC	Front Side	10	4233	846.6	0.09	0.159	23.48	24.50	1.265	0.201	/
	State3		Back Side	10	4233	846.6	0.01	0.316	23.48	24.50	1.265	<b>0.400</b>	18#
	State3		Left Edge	10	4233	846.6	0.15	0.097	23.48	24.50	1.265	0.123	/
	State3		Right Edge	10	4233	846.6	0.03	0.158	23.48	24.50	1.265	0.200	/
	State3		Bottom Edge	10	4233	846.6	0.05	0.225	23.48	24.50	1.265	0.285	/
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	State2&4	QPSK	Left Cheek	0	19100	1900	1	High	-0.03	0.345	15.76	16.50	1.186	0.409	/
	State2&4		Left Tilt	0	19100	1900	1	High	-0.14	0.431	15.76	16.50	1.186	0.511	/
	State2&4		Right Cheek	0	19100	1900	1	High	0.11	0.543	15.76	16.50	1.186	0.644	/
	State2&4		Right Tilt	0	19100	1900	1	High	-0.08	0.695	15.76	16.50	1.186	0.824	/
	State2&4		Left Cheek	0	19100	1900	50	High	0.04	0.389	15.78	16.50	1.180	0.459	/
	State2&4		Left Tilt	0	19100	1900	50	High	0.13	0.475	15.78	16.50	1.180	0.561	/
	State2&4		Right Cheek	0	19100	1900	50	High	0.02	0.595	15.78	16.50	1.180	0.702	/
	State2&4		Right Tilt	0	19100	1900	50	High	-0.07	0.718	15.78	16.50	1.180	0.847	/
	State2&4		Right Tilt	0	18700	1860	1	Mid	0.14	0.694	15.72	16.50	1.197	0.831	/
	State2&4		Right Tilt	0	18900	1880	1	Mid	0.01	0.674	15.70	16.50	1.202	0.810	/
	State2&4		Right Tilt	0	18700	1860	50	High	-0.01	0.770	15.76	16.50	1.186	<b>0.913</b>	19#
	State2&4		Right Tilt	0	18900	1880	50	Low	-0.07	0.761	15.76	16.50	1.186	0.903	/
	State2&4		Right Tilt	0	19100	1900	100	Low	0.01	0.713	15.76	16.50	1.186	0.846	/
Ant.0	State2&4	QPSK	Left Cheek	0	18700	1860	1	High	0.10	0.127	22.82	23.50	1.169	0.148	/
	State2&4		Left Tilt	0	18700	1860	1	High	0.02	0.064	22.82	23.50	1.169	0.075	/
	State2&4		Right Cheek	0	18700	1860	1	High	-0.11	0.110	22.82	23.50	1.169	0.129	/
	State2&4		Right Tilt	0	18700	1860	1	High	0.00	0.070	22.82	23.50	1.169	0.082	/
	State2&4		Left Cheek	0	18900	1880	50	Low	0.03	0.116	22.22	22.50	1.067	0.124	/
	State2&4		Left Tilt	0	18900	1880	50	Low	-0.09	0.059	22.22	22.50	1.067	0.063	/
	State2&4		Right Cheek	0	18900	1880	50	Low	-0.06	0.098	22.22	22.50	1.067	0.105	/
	State2&4		Right Tilt	0	18900	1880	50	Low	-0.05	0.062	22.22	22.50	1.067	0.066	/
<b>Body-worn</b>															
Ant.1	State1&3	QPSK	Front Side	15	19100	1900	1	High	0.14	0.125	19.42	20.00	1.143	0.143	/
	State1&3		Back Side	15	19100	1900	1	High	-0.01	0.196	19.42	20.00	1.143	0.224	/
	State1&3		Front Side	15	19100	1900	50	High	0.14	0.145	19.35	20.00	1.161	0.168	/
	State1&3		Back Side	15	19100	1900	50	High	-0.05	0.216	19.35	20.00	1.161	0.251	/
Ant.0	State1&3	QPSK	Front Side	15	18900	1880	1	Mid	0.12	0.154	21.29	22.00	1.178	0.181	/
	State1&3		Back Side	15	18900	1880	1	Mid	0.04	0.243	21.29	22.00	1.178	0.286	/
	State1&3		Front Side	15	18900	1880	50	Low	-0.12	0.175	21.15	22.00	1.216	0.213	/
	State1&3		Back Side	15	18900	1880	50	Low	0.00	0.259	21.15	22.00	1.216	<b>0.315</b>	20#
<b>Hotspot</b>															
Ant.1	State3	QPSK	Front Side	10	19100	1900	1	High	0.10	0.210	19.42	20.00	1.143	0.240	/
	State3		Back Side	10	19100	1900	1	High	0.14	0.319	19.42	20.00	1.143	0.365	/
	State3		Left Edge	10	19100	1900	1	High	-0.02	0.018	19.42	20.00	1.143	0.021	/
	State3		Right Edge	10	19100	1900	1	High	0.10	0.038	19.42	20.00	1.143	0.043	/
	State3		Top Edge	10	19100	1900	1	High	-0.06	0.451	19.42	20.00	1.143	0.515	/

	State3		Front Side	10	19100	1900	50	High	0.06	0.225	19.35	20.00	1.161	0.261	/
	State3		Back Side	10	19100	1900	50	High	-0.09	0.348	19.35	20.00	1.161	0.404	/
	State3		Left Edge	10	19100	1900	50	High	-0.11	0.020	19.35	20.00	1.161	0.023	/
	State3		Right Edge	10	19100	1900	50	High	-0.15	0.043	19.35	20.00	1.161	0.050	/
	State3		Top Edge	10	19100	1900	50	High	0.02	0.573	19.35	20.00	1.161	0.665	/
Ant.0	State3	QPSK	Front Side	10	18900	1880	1	Mid	0.07	0.236	21.29	22.00	1.178	0.278	/
	State3		Back Side	10	18900	1880	1	Mid	-0.04	0.392	21.29	22.00	1.178	0.462	/
	State3		Left Edge	10	18900	1880	1	Mid	0.04	0.126	21.29	22.00	1.178	0.148	/
	State3		Right Edge	10	18900	1880	1	Mid	0.12	0.063	21.29	22.00	1.178	0.074	/
	State3		Bottom Edge	10	18900	1880	1	Mid	-0.05	0.531	21.29	22.00	1.178	0.626	/
	State3		Front Side	10	18900	1880	50	Low	-0.06	0.276	21.15	22.00	1.216	0.336	/
	State3		Back Side	10	18900	1880	50	Low	0.06	0.444	21.15	22.00	1.216	0.540	/
	State3		Left Edge	10	18900	1880	50	Low	-0.04	0.134	21.15	22.00	1.216	0.163	/
	State3		Right Edge	10	18900	1880	50	Low	-0.04	0.072	21.15	22.00	1.216	0.088	/
	State3		Bottom Edge	10	18900	1880	50	Low	0.00	0.615	21.15	22.00	1.216	<b>0.748</b>	21#

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	State2&4	QPSK	Left Cheek	0	20175	1732.5	1	High	-0.11	0.372	15.98	17.00	1.265	0.471	/
	State2&4		Left Tilt	0	20175	1732.5	1	High	-0.01	0.459	15.98	17.00	1.265	0.581	/
	State2&4		Right Cheek	0	20175	1732.5	1	High	-0.08	0.609	15.98	17.00	1.265	0.770	/
	State2&4		Right Tilt	0	20175	1732.5	1	High	-0.09	0.687	15.98	17.00	1.265	0.869	/
	State2&4		Left Cheek	0	20175	1732.5	50	High	0.14	0.431	15.95	17.00	1.274	0.549	/
	State2&4		Left Tilt	0	20175	1732.5	50	High	-0.01	0.524	15.95	17.00	1.274	0.668	/
	State2&4		Right Cheek	0	20175	1732.5	50	High	-0.07	0.626	15.95	17.00	1.274	0.798	/
	State2&4		Right Tilt	0	20175	1732.5	50	High	-0.01	0.803	15.95	17.00	1.274	1.023	/
	State2&4		Right Tilt	0	20050	1720	1	High	-0.06	0.721	15.87	17.00	1.297	0.935	/
	State2&4		Right Tilt	0	20300	1745	1	High	0.13	0.772	15.97	17.00	1.268	0.979	/
	State2&4		Right Tilt	0	20050	1720	50	High	0.14	0.826	15.87	17.00	1.297	1.071	/
	State2&4		Right Tilt	0	20300	1745	50	Low	0.03	0.844	15.92	17.00	1.282	<b>1.082</b>	22#
	State2&4		Right Tilt	0	20175	1732.5	100	Low	0.00	0.831	15.89	17.00	1.291	1.073	/
Ant.0	State2&4	QPSK	Left Cheek	0	20175	1732.5	1	High	-0.02	0.144	22.46	23.50	1.271	0.183	/
	State2&4		Left Tilt	0	20175	1732.5	1	High	-0.02	0.068	22.46	23.50	1.271	0.086	/
	State2&4		Right Cheek	0	20175	1732.5	1	High	0.06	0.071	22.46	23.50	1.271	0.090	/
	State2&4		Right Tilt	0	20175	1732.5	1	High	-0.01	0.067	22.46	23.50	1.271	0.085	/
	State2&4		Left Cheek	0	20175	1732.5	50	High	0.11	0.129	21.96	22.50	1.132	0.146	/
	State2&4		Left Tilt	0	20175	1732.5	50	High	0.09	0.060	21.96	22.50	1.132	0.068	/
	State2&4		Right Cheek	0	20175	1732.5	50	High	0.10	0.068	21.96	22.50	1.132	0.077	/
	State2&4		Right Tilt	0	20175	1732.5	50	High	0.04	0.058	21.96	22.50	1.132	0.066	/
Ant.2	State2&4	QPSK	Left Cheek	0	20175	1732.5	1	High	-0.11	0.032	20.95	22.50	1.429	0.046	/
	State2&4		Left Tilt	0	20175	1732.5	1	High	0.10	0.004	20.95	22.50	1.429	0.006	/
	State2&4		Right Cheek	0	20175	1732.5	1	High	0.11	0.102	20.95	22.50	1.429	0.146	/
	State2&4		Right Tilt	0	20175	1732.5	1	High	0.07	0.004	20.95	22.50	1.429	0.006	/
	State2&4		Left Cheek	0	20175	1732.5	50	High	-0.06	0.028	20.54	21.50	1.247	0.035	/
	State2&4		Left Tilt	0	20175	1732.5	50	High	-0.01	0.004	20.54	21.50	1.247	0.005	/
	State2&4		Right Cheek	0	20175	1732.5	50	High	0.05	0.098	20.54	21.50	1.247	0.122	/
	State2&4		Right Tilt	0	20175	1732.5	50	High	0.10	0.003	20.54	21.50	1.247	0.004	/
<b>Body-worn</b>															
Ant.1	State1&3	QPSK	Front Side	15	20175	1732.5	1	High	0.03	0.135	20.00	21.00	1.259	0.170	/
	State1&3		Back Side	15	20175	1732.5	1	High	0.04	0.185	20.00	21.00	1.259	0.233	/
	State1&3		Front Side	15	20175	1732.5	50	High	0.12	0.160	20.02	21.00	1.253	0.200	/
	State1&3		Back Side	15	20175	1732.5	50	High	-0.03	0.205	20.02	21.00	1.253	0.257	/
Ant.0	State1&3	QPSK	Front Side	15	20175	1732.5	1	High	-0.14	0.124	20.60	21.75	1.303	0.162	/
	State1&3		Back Side	15	20175	1732.5	1	High	-0.01	0.210	20.60	21.75	1.303	0.274	/

	State1&3		Front Side	15	20175	1732.5	50	High	0.07	0.145	20.69	21.75	1.276	0.185	/
	State1&3		Back Side	15	20175	1732.5	50	High	0.00	0.232	20.69	21.75	1.276	<b>0.296</b>	23#
Ant.2	State1&3	QPSK	Front Side	15	20175	1732.5	1	High	0.10	0.008	20.95	22.50	1.429	0.011	/
	State1&3		Back Side	15	20175	1732.5	1	High	-0.04	0.019	20.95	22.50	1.429	0.027	/
	State1&3		Front Side	15	20175	1732.5	50	High	0.08	0.008	20.54	21.50	1.247	0.010	/
	State1&3		Back Side	15	20175	1732.5	50	High	-0.15	0.017	20.54	21.50	1.247	0.021	/
<b>Hotspot</b>															
Ant.1	State3	QPSK	Front Side	10	20175	1732.5	1	High	-0.12	0.296	20.00	21.00	1.259	0.373	/
	State3		Back Side	10	20175	1732.5	1	High	-0.09	0.382	20.00	21.00	1.259	0.481	/
	State3		Left Edge	10	20175	1732.5	1	High	-0.14	0.036	20.00	21.00	1.259	0.045	/
	State3		Right Edge	10	20175	1732.5	1	High	-0.08	0.060	20.00	21.00	1.259	0.076	/
	State3		Top Edge	10	20175	1732.5	1	High	-0.03	0.638	20.00	21.00	1.259	0.803	/
	State3		Front Side	10	20175	1732.5	50	High	0.14	0.327	20.02	21.00	1.253	0.410	/
	State3		Back Side	10	20175	1732.5	50	High	0.14	0.449	20.02	21.00	1.253	0.563	/
	State3		Left Edge	10	20175	1732.5	50	High	0.02	0.040	20.02	21.00	1.253	0.050	/
	State3		Right Edge	10	20175	1732.5	50	High	0.09	0.068	20.02	21.00	1.253	0.085	/
	State3		Top Edge	10	20175	1732.5	50	High	-0.15	0.698	20.02	21.00	1.253	0.875	/
	State3		Top Edge	10	20050	1720	1	High	-0.14	0.544	19.99	21.00	1.262	0.687	/
	State3		Top Edge	10	20300	1745	1	High	-0.12	0.632	19.98	21.00	1.265	0.799	/
	State3		Top Edge	10	20050	1720	50	High	0.15	0.625	19.97	21.00	1.268	0.793	/
	State3		Top Edge	10	20300	1745	50	Low	0.00	0.716	19.98	21.00	1.265	<b>0.906</b>	24#
	State3		Top Edge	10	20175	1732.5	100	Low	-0.11	0.701	19.98	21.00	1.265	0.887	/
Ant.0	State3	QPSK	Front Side	10	20175	1732.5	1	High	0.09	0.230	20.60	21.75	1.303	0.300	/
	State3		Back Side	10	20175	1732.5	1	High	0.14	0.383	20.60	21.75	1.303	0.499	/
	State3		Left Edge	10	20175	1732.5	1	High	0.06	0.096	20.60	21.75	1.303	0.125	/
	State3		Right Edge	10	20175	1732.5	1	High	0.01	0.065	20.60	21.75	1.303	0.085	/
	State3		Bottom Edge	10	20175	1732.5	1	High	-0.07	0.496	20.60	21.75	1.303	0.646	/
	State3		Front Side	10	20175	1732.5	50	High	-0.03	0.263	20.69	21.75	1.276	0.336	/
	State3		Back Side	10	20175	1732.5	50	High	-0.11	0.435	20.69	21.75	1.276	0.555	/
	State3		Left Edge	10	20175	1732.5	50	High	0.03	0.109	20.69	21.75	1.276	0.139	/
	State3		Right Edge	10	20175	1732.5	50	High	-0.13	0.081	20.69	21.75	1.276	0.103	/
	State3		Bottom Edge	10	20175	1732.5	50	High	-0.01	0.555	20.69	21.75	1.276	0.708	/
Ant.2	State3	QPSK	Front Side	10	20175	1732.5	1	High	-0.07	0.025	20.95	22.50	1.429	0.036	/
	State3		Back Side	10	20175	1732.5	1	High	0.06	0.044	20.95	22.50	1.429	0.063	/
	State3		Right Edge	10	20175	1732.5	1	High	-0.14	0.003	20.95	22.50	1.429	0.004	/
	State3		Front Side	10	20175	1732.5	50	High	0.13	0.021	20.54	21.50	1.247	0.026	/
	State3		Back Side	10	20175	1732.5	50	High	0.09	0.039	20.54	21.50	1.247	0.049	/
	State3		Right Edge	10	20175	1732.5	50	High	-0.08	0.003	20.54	21.50	1.247	0.004	/

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)	10g 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	State1&3	QPSK	Top Edge	0	20175	1732.5	1	High	-0.10	1.310	20.00	21.00	1.259	1.649	/
	State1&3		Top Edge	0	20175	1732.5	50	High	0.00	1.560	20.02	21.00	1.253	<b>1.955</b>	<b>25#</b>
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	State2&4	QPSK	Left Cheek	0	20525	836.5	1	Low	0.04	0.364	21.13	23.00	1.538	0.560	/
	State2&4		Left Tilt	0	20525	836.5	1	Low	0.15	0.354	21.13	23.00	1.538	0.544	/
	State2&4		Right Cheek	0	20525	836.5	1	Low	0.03	0.643	21.13	23.00	1.538	<b>0.989</b>	26#
	State2&4		Right Tilt	0	20525	836.5	1	Low	-0.13	0.500	21.13	23.00	1.538	0.769	/
	State2&4		Left Cheek	0	20525	836.5	25	Low	0.11	0.324	21.18	23.00	1.521	0.493	/
	State2&4		Left Tilt	0	20525	836.5	25	Low	0.02	0.307	21.18	23.00	1.521	0.467	/
	State2&4		Right Cheek	0	20525	836.5	25	Low	-0.12	0.548	21.18	23.00	1.521	0.834	/
	State2&4		Right Tilt	0	20525	836.5	25	Low	-0.14	0.434	21.18	23.00	1.521	0.660	/
Ant.0	State2&4	QPSK	Left Cheek	0	20525	836.5	1	Low	0.05	0.133	23.05	24.50	1.396	0.186	/
	State2&4		Left Tilt	0	20525	836.5	1	Low	0.10	0.070	23.05	24.50	1.396	0.098	/
	State2&4		Right Cheek	0	20525	836.5	1	Low	0.15	0.112	23.05	24.50	1.396	0.156	/
	State2&4		Right Tilt	0	20525	836.5	1	Low	-0.05	0.054	23.05	24.50	1.396	0.075	/
	State2&4		Left Cheek	0	20525	836.5	25	High	0.03	0.097	21.79	23.50	1.483	0.144	/
	State2&4		Left Tilt	0	20525	836.5	25	High	-0.04	0.052	21.79	23.50	1.483	0.077	/
	State2&4		Right Cheek	0	20525	836.5	25	High	-0.08	0.082	21.79	23.50	1.483	0.122	/
	State2&4		Right Tilt	0	20525	836.5	25	High	-0.13	0.000	21.79	23.50	1.483	0.000	/
<b>Body-worn</b>															
Ant.1	State1&3	QPSK	Front Side	15	20525	836.5	1	Low	-0.08	0.082	22.87	24.50	1.455	0.119	/
	State1&3		Back Side	15	20525	836.5	1	Low	-0.14	0.093	22.87	24.50	1.455	0.135	/
	State1&3		Front Side	15	20525	836.5	25	Low	0.11	0.057	21.81	23.50	1.476	0.084	/
	State1&3		Back Side	15	20525	836.5	25	Low	-0.15	0.067	21.81	23.50	1.476	0.099	/
Ant.0	State1&3	QPSK	Front Side	15	20525	836.5	1	Low	-0.14	0.083	23.05	24.50	1.396	0.116	/
	State1&3		Back Side	15	20525	836.5	1	Low	0.00	0.117	23.05	24.50	1.396	<b>0.163</b>	27#
	State1&3		Front Side	15	20525	836.5	25	High	-0.02	0.059	21.79	23.50	1.483	0.087	/
	State1&3		Back Side	15	20525	836.5	25	High	0.06	0.089	21.79	23.50	1.483	0.132	/
<b>Hotspot</b>															
Ant.1	State3	QPSK	Front Side	10	20525	836.5	1	Low	0.00	0.128	22.87	24.50	1.455	0.186	/
	State3		Back Side	10	20525	836.5	1	Low	0.08	0.179	22.87	24.50	1.455	0.260	/
	State3		Left Edge	10	20525	836.5	1	Low	0.06	0.079	22.87	24.50	1.455	0.115	/
	State3		Right Edge	10	20525	836.5	1	Low	0.08	0.086	22.87	24.50	1.455	0.125	/
	State3		Top Edge	10	20525	836.5	1	Low	-0.02	0.168	22.87	24.50	1.455	0.244	/
	State3		Front Side	10	20525	836.5	25	Low	0.07	0.099	21.81	23.50	1.476	0.146	/
	State3		Back Side	10	20525	836.5	25	Low	-0.07	0.138	21.81	23.50	1.476	0.204	/
	State3		Left Edge	10	20525	836.5	25	Low	-0.04	0.059	21.81	23.50	1.476	0.087	/
	State3		Right Edge	10	20525	836.5	25	Low	-0.11	0.062	21.81	23.50	1.476	0.092	/
	State3		Top Edge	10	20525	836.5	25	Low	-0.04	0.136	21.81	23.50	1.476	0.201	/

Ant.0	State3	QPSK	Front Side	10	20525	836.5	1	Low	0.13	0.115	23.05	24.50	1.396	0.161	/
	State3		Back Side	10	20525	836.5	1	Low	0.02	0.192	23.05	24.50	1.396	<b>0.268</b>	28#
	State3		Left Edge	10	20525	836.5	1	Low	-0.04	0.070	23.05	24.50	1.396	0.098	/
	State3		Right Edge	10	20525	836.5	1	Low	-0.01	0.120	23.05	24.50	1.396	0.168	/
	State3		Bottom Edge	10	20525	836.5	1	Low	-0.07	0.164	23.05	24.50	1.396	0.229	/
	State3		Front Side	10	20525	836.5	25	High	0.07	0.084	21.79	23.50	1.483	0.125	/
	State3		Back Side	10	20525	836.5	25	High	0.04	0.158	21.79	23.50	1.483	0.234	/
	State3		Left Edge	10	20525	836.5	25	High	0.02	0.051	21.79	23.50	1.483	0.076	/
	State3		Right Edge	10	20525	836.5	25	High	-0.03	0.083	21.79	23.50	1.483	0.123	/
	State3		Bottom Edge	10	20525	836.5	25	High	0.08	0.123	21.79	23.50	1.483	0.182	/

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	State2&4	QPSK	Left Cheek	0	21100	2535	1	Mid	0.04	0.213	16.81	18.00	1.315	0.280	/
	State2&4		Left Tilt	0	21100	2535	1	Mid	-0.02	0.294	16.81	18.00	1.315	0.387	/
	State2&4		Right Cheek	0	21100	2535	1	Mid	0.07	0.492	16.81	18.00	1.315	0.647	/
	State2&4		Right Tilt	0	21100	2535	1	Mid	0.05	0.613	16.81	18.00	1.315	0.806	/
	State2&4		Left Cheek	0	21100	2535	50	Mid	0.09	0.242	16.79	18.00	1.321	0.320	/
	State2&4		Left Tilt	0	21100	2535	50	Mid	0.02	0.335	16.79	18.00	1.321	0.443	/
	State2&4		Right Cheek	0	21100	2535	50	Mid	0.08	0.555	16.79	18.00	1.321	0.733	/
	State2&4		Right Tilt	0	21100	2535	50	Mid	-0.15	0.702	16.79	18.00	1.321	0.927	/
	State2&4		Right Tilt	0	20850	2510	1	Mid	0.05	0.595	16.66	18.00	1.361	0.810	/
	State2&4		Right Tilt	0	21350	2560	1	Mid	-0.15	0.679	16.70	18.00	1.349	0.916	/
	State2&4		Right Tilt	0	20850	2510	50	Low	0.07	0.683	16.67	18.00	1.358	0.928	/
	State2&4		Right Tilt	0	21350	2560	50	High	-0.09	0.819	16.75	18.00	1.334	<b>1.093</b>	29#
State2&4	Right Tilt	0	21100	2535	100	Low	-0.02	0.774	16.73	18.00	1.340	1.037	/		
Ant.0	State2&4	QPSK	Left Cheek	0	21350	2560	1	Mid	0.06	0.134	22.42	23.50	1.282	0.172	/
	State2&4		Left Tilt	0	21350	2560	1	Mid	-0.05	0.103	22.42	23.50	1.282	0.132	/
	State2&4		Right Cheek	0	21350	2560	1	Mid	-0.14	0.258	22.42	23.50	1.282	0.331	/
	State2&4		Right Tilt	0	21350	2560	1	Mid	-0.08	0.155	22.42	23.50	1.282	0.199	/
	State2&4		Left Cheek	0	21350	2560	50	High	0.07	0.122	22.02	22.50	1.117	0.136	/
	State2&4		Left Tilt	0	21350	2560	50	High	-0.14	0.095	22.02	22.50	1.117	0.106	/
	State2&4		Right Cheek	0	21350	2560	50	High	-0.05	0.238	22.02	22.50	1.117	0.266	/
	State2&4		Right Tilt	0	21350	2560	50	High	-0.07	0.139	22.02	22.50	1.117	0.155	/
Ant.2	State2&4	QPSK	Left Cheek	0	20850	2510	1	Low	0.10	0.093	20.23	21.50	1.340	0.125	/
	State2&4		Left Tilt	0	20850	2510	1	Low	0.08	0.047	20.23	21.50	1.340	0.063	/
	State2&4		Right Cheek	0	20850	2510	1	Low	-0.03	0.328	20.23	21.50	1.340	0.440	/
	State2&4		Right Tilt	0	20850	2510	1	Low	-0.04	0.087	20.23	21.50	1.340	0.117	/
	State2&4		Left Cheek	0	20850	2510	50	Low	-0.02	0.091	20.19	21.50	1.352	0.123	/
	State2&4		Left Tilt	0	20850	2510	50	Low	-0.11	0.060	20.19	21.50	1.352	0.081	/
	State2&4		Right Cheek	0	20850	2510	50	Low	-0.02	0.306	20.19	21.50	1.352	0.414	/
	State2&4		Right Tilt	0	20850	2510	50	Low	-0.09	0.093	20.19	21.50	1.352	0.126	/
<b>Body-worn</b>															
Ant.1	State1&3	QPSK	Front Side	15	21350	2560	1	Mid	0.04	0.076	17.81	19.00	1.315	0.100	/
	State1&3		Back Side	15	21350	2560	1	Mid	0.14	0.140	17.81	19.00	1.315	0.184	/
	State1&3		Front Side	15	21350	2560	50	Mid	-0.15	0.077	17.80	19.00	1.318	0.101	/
	State1&3		Back Side	15	21350	2560	50	Mid	0.11	0.142	17.80	19.00	1.318	0.187	/
Ant.0	State1&3	QPSK	Front Side	15	21350	2560	1	Mid	0.00	0.091	20.43	21.50	1.279	0.116	/
	State1&3		Back Side	15	21350	2560	1	Mid	0.00	0.148	20.43	21.50	1.279	0.189	/

	State1&3		Front Side	15	21350	2560	50	High	-0.01	0.093	20.44	21.50	1.276	0.119	/
	State1&3		Back Side	15	21350	2560	50	High	0.00	0.150	20.44	21.50	1.276	<b>0.191</b>	30#
Ant.2	State1&3	QPSK	Front Side	15	20850	2510	1	Mid	0.00	0.015	16.68	18.00	1.355	0.020	/
	State1&3		Back Side	15	20850	2510	1	Mid	-0.06	0.034	16.68	18.00	1.355	0.046	/
	State1&3		Front Side	15	20850	2510	50	Low	0.08	0.015	16.66	18.00	1.361	0.020	/
	State1&3		Back Side	15	20850	2510	50	Low	-0.02	0.035	16.66	18.00	1.361	0.048	/
<b>Hotspot</b>															
Ant.1	State3	QPSK	Front Side	10	21350	2560	1	Mid	0.05	0.120	17.81	19.00	1.315	0.158	/
	State3		Back Side	10	21350	2560	1	Mid	-0.08	0.253	17.81	19.00	1.315	0.333	/
	State3		Left Edge	10	21350	2560	1	Mid	0.01	0.000	17.81	19.00	1.315	0.000	/
	State3		Right Edge	10	21350	2560	1	Mid	-0.11	0.050	17.81	19.00	1.315	0.066	/
	State3		Top Edge	10	21350	2560	1	Mid	0.01	0.385	17.81	19.00	1.315	0.506	/
	State3		Front Side	10	21350	2560	50	Mid	-0.15	0.136	17.80	19.00	1.318	0.179	/
	State3		Back Side	10	21350	2560	50	Mid	-0.04	0.287	17.80	19.00	1.318	0.378	/
	State3		Left Edge	10	21350	2560	50	Mid	0.09	0.000	17.80	19.00	1.318	0.000	/
	State3		Right Edge	10	21350	2560	50	Mid	-0.09	0.056	17.80	19.00	1.318	0.074	/
	State3		Top Edge	10	21350	2560	50	Mid	0.01	0.442	17.80	19.00	1.318	<b>0.583</b>	31#
Ant.0	State3	QPSK	Front Side	10	21350	2560	1	Mid	-0.12	0.235	20.43	21.50	1.279	0.301	/
	State3		Back Side	10	21350	2560	1	Mid	0.14	0.387	20.43	21.50	1.279	0.495	/
	State3		Left Edge	10	21350	2560	1	Mid	0.15	0.232	20.43	21.50	1.279	0.297	/
	State3		Right Edge	10	21350	2560	1	Mid	0.06	0.062	20.43	21.50	1.279	0.079	/
	State3		Bottom Edge	10	21350	2560	1	Mid	0.11	0.281	20.43	21.50	1.279	0.359	/
	State3		Front Side	10	21350	2560	50	High	0.01	0.273	20.44	21.50	1.276	0.348	/
	State3		Back Side	10	21350	2560	50	High	-0.06	0.440	20.44	21.50	1.276	0.561	/
	State3		Left Edge	10	21350	2560	50	High	0.10	0.265	20.44	21.50	1.276	0.338	/
	State3		Right Edge	10	21350	2560	50	High	0.14	0.071	20.44	21.50	1.276	0.091	/
	State3		Bottom Edge	10	21350	2560	50	High	0.13	0.315	20.44	21.50	1.276	0.402	/
Ant.2	State3	QPSK	Front Side	10	20850	2510	1	Mid	0.00	0.030	16.68	18.00	1.355	0.041	/
	State3		Back Side	10	20850	2510	1	Mid	-0.13	0.063	16.68	18.00	1.355	0.085	/
	State3		Right Edge	10	20850	2510	1	Mid	-0.08	0.045	16.68	18.00	1.355	0.061	/
	State3		Front Side	10	20850	2510	50	Low	0.09	0.031	16.66	18.00	1.361	0.042	/
	State3		Back Side	10	20850	2510	50	Low	0.01	0.065	16.66	18.00	1.361	0.088	/
	State3		Right Edge	10	20850	2510	50	Low	0.10	0.048	16.66	18.00	1.361	0.065	/
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	State1&3	QPSK	Top Edge	0	21350	2560	1	Mid	0.05	1.330	17.81	19.00	1.315	1.749	/
	State1&3		Top Edge	0	21350	2560	50	Mid	0.00	1.340	17.80	19.00	1.318	<b>1.766</b>	32#
Note: Refer to ANNEX C for the detailed test data for each test configuration.															



### 11.10 LTE Band 7 Worse case for CA Test

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-CA</b>															
Ant.1	State2&4	QPSK	Right Tilt	0	21350 +21152	2560 +2540.2	1+1	Low +High	0.04	0.765	16.63	18.00	1.371	1.049	/
<b>Body-worn-CA</b>															
Ant.0	State1&3	QPSK	Back Side	15	21350 +21152	2560 +2540.2	1+1	Low +High	-0.05	0.136	20.10	21.50	1.380	0.188	/
<b>Hotspot-CA</b>															
Ant.1	State3	QPSK	Top Edge	10	21350 +21152	2560 +2540.2	1+1	Low +High	0.06	0.410	17.52	19.00	1.406	0.576	/
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-CA</b>															
Ant.1	State1&3	QPSK	Top Edge	0	21350 +21152	2560 +2540.2	1+1	Low +High	0.13	1.220	17.52	19.00	1.406	1.715	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

### 11.11 LTE Band 12 (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	State2&4	QPSK	Left Cheek	0	23095	707.5	1	High	-0.12	0.302	22.85	24.50	1.462	0.442	/
	State2&4		Left Tilt	0	23095	707.5	1	High	-0.05	0.280	22.85	24.50	1.462	0.409	/
	State2&4		Right Cheek	0	23095	707.5	1	High	-0.04	0.567	22.85	24.50	1.462	<b>0.829</b>	33#
	State2&4		Right Tilt	0	23095	707.5	1	High	0.03	0.468	22.85	24.50	1.462	0.684	/
	State2&4		Left Cheek	0	23095	707.5	25	High	0.07	0.316	21.82	23.50	1.472	0.465	/
	State2&4		Left Tilt	0	23095	707.5	25	High	-0.11	0.211	21.82	23.50	1.472	0.311	/
	State2&4		Right Cheek	0	23095	707.5	25	High	0.14	0.418	21.82	23.50	1.472	0.615	/
	State2&4		Right Tilt	0	23095	707.5	25	High	0.00	0.347	21.82	23.50	1.472	0.511	/
	State2&4		Right Cheek	0	23060	704	1	High	0.05	0.550	22.84	24.50	1.466	0.806	/
	State2&4		Right Cheek	0	23130	711	1	High	0.02	0.538	22.83	24.50	1.469	0.790	/
	State2&4		Right Cheek	0	23095	707.5	50	Low	-0.07	0.397	21.81	23.50	1.476	0.586	/
Ant.0	State2&4	QPSK	Left Cheek	0	23095	707.5	1	High	0.00	0.098	23.05	24.50	1.396	0.137	/
	State2&4		Left Tilt	0	23095	707.5	1	High	0.01	0.053	23.05	24.50	1.396	0.074	/
	State2&4		Right Cheek	0	23095	707.5	1	High	-0.02	0.085	23.05	24.50	1.396	0.119	/
	State2&4		Right Tilt	0	23095	707.5	1	High	0.03	0.026	23.05	24.50	1.396	0.036	/
	State2&4		Left Cheek	0	23095	707.5	25	High	0.07	0.073	21.62	23.50	1.542	0.113	/
	State2&4		Left Tilt	0	23095	707.5	25	High	-0.03	0.000	21.62	23.50	1.542	0.000	/
	State2&4		Right Cheek	0	23095	707.5	25	High	0.04	0.062	21.62	23.50	1.542	0.096	/
	State2&4		Right Tilt	0	23095	707.5	25	High	-0.08	0.021	21.62	23.50	1.542	0.032	/
<b>Body-worn</b>															
Ant.1	State1&3	QPSK	Front Side	15	23095	707.5	1	High	0.04	0.094	22.85	24.50	1.462	0.137	/
	State1&3		Back Side	15	23095	707.5	1	High	0.08	0.118	22.85	24.50	1.462	0.173	/
	State1&3		Front Side	15	23095	707.5	25	High	0.12	0.069	21.82	23.50	1.472	0.102	/
	State1&3		Back Side	15	23095	707.5	25	High	-0.12	0.086	21.82	23.50	1.472	0.127	/
Ant.0	State1&3	QPSK	Front Side	15	23095	707.5	1	High	-0.13	0.104	23.05	24.50	1.396	0.145	/
	State1&3		Back Side	15	23095	707.5	1	High	0.01	0.163	23.05	24.50	1.396	<b>0.228</b>	34#
	State1&3		Front Side	15	23095	707.5	25	High	-0.15	0.077	21.62	23.50	1.542	0.119	/
	State1&3		Back Side	15	23095	707.5	25	High	-0.09	0.119	21.62	23.50	1.542	0.183	/
<b>Hotspot</b>															
Ant.1	State3	QPSK	Front Side	10	23095	707.5	1	High	0.02	0.086	22.85	24.50	1.462	0.126	/
	State3		Back Side	10	23095	707.5	1	High	0.12	0.117	22.85	24.50	1.462	0.171	/
	State3		Left Edge	10	23095	707.5	1	High	0.08	0.102	22.85	24.50	1.462	0.149	/
	State3		Right Edge	10	23095	707.5	1	High	0.14	0.127	22.85	24.50	1.462	0.186	/
	State3		Top Edge	10	23095	707.5	1	High	-0.10	0.089	22.85	24.50	1.462	0.130	/
	State3		Front Side	10	23095	707.5	25	High	-0.09	0.063	21.82	23.50	1.472	0.093	/
	State3		Back Side	10	23095	707.5	25	High	-0.02	0.087	21.82	23.50	1.472	0.128	/

	State3		Left Edge	10	23095	707.5	25	High	-0.11	0.073	21.82	23.50	1.472	0.107	/
	State3		Right Edge	10	23095	707.5	25	High	-0.11	0.091	21.82	23.50	1.472	0.134	/
	State3		Top Edge	10	23095	707.5	25	High	0.03	0.066	21.82	23.50	1.472	0.097	/
Ant.0	State3	QPSK	Front Side	10	23095	707.5	1	High	0.15	0.095	23.05	24.50	1.396	0.133	/
	State3		Back Side	10	23095	707.5	1	High	-0.01	0.177	23.05	24.50	1.396	<b>0.247</b>	35#
	State3		Left Edge	10	23095	707.5	1	High	0.01	0.112	23.05	24.50	1.396	0.156	/
	State3		Right Edge	10	23095	707.5	1	High	0.10	0.169	23.05	24.50	1.396	0.236	/
	State3		Bottom Edge	10	23095	707.5	1	High	0.00	0.069	23.05	24.50	1.396	0.096	/
	State3		Front Side	10	23095	707.5	25	High	0.02	0.069	21.62	23.50	1.542	0.106	/
	State3		Back Side	10	23095	707.5	25	High	0.03	0.129	21.62	23.50	1.542	0.199	/
	State3		Left Edge	10	23095	707.5	25	High	0.08	0.082	21.62	23.50	1.542	0.126	/
	State3		Right Edge	10	23095	707.5	25	High	-0.15	0.122	21.62	23.50	1.542	0.188	/
	State3		Bottom Edge	10	23095	707.5	25	High	0.04	0.052	21.62	23.50	1.542	0.080	/

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

### 11.12 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	State2&4	QPSK	Left Cheek	0	23230	782	1	High	-0.12	0.416	22.95	24.50	1.429	0.594	/
	State2&4		Left Tilt	0	23230	782	1	High	0.00	0.407	22.95	24.50	1.429	0.582	/
	State2&4		Right Cheek	0	23230	782	1	High	0.01	0.801	22.95	24.50	1.429	<b>1.145</b>	<b>36#</b>
	State2&4		Right Tilt	0	23230	782	1	High	-0.12	0.654	22.95	24.50	1.429	0.935	/
	State2&4		Left Cheek	0	23230	782	25	High	-0.01	0.318	21.73	23.50	1.503	0.478	/
	State2&4		Left Tilt	0	23230	782	25	High	-0.04	0.312	21.73	23.50	1.503	0.469	/
	State2&4		Right Cheek	0	23230	782	25	High	0.08	0.569	21.73	23.50	1.503	0.855	/
	State2&4		Right Tilt	0	23230	782	25	High	-0.06	0.462	21.73	23.50	1.503	0.694	/
	State2&4		Right Cheek	0	23230	782	50	Low	0.14	0.557	21.58	23.50	1.556	0.867	/
	State2&4		Right Tilt	0	23230	782	50	Low	-0.03	0.437	21.58	23.50	1.556	0.680	/
Ant.0	State2&4	QPSK	Left Cheek	0	23230	782	1	High	0.00	0.116	23.07	24.50	1.390	0.161	/
	State2&4		Left Tilt	0	23230	782	1	High	-0.01	0.054	23.07	24.50	1.390	0.075	/
	State2&4		Right Cheek	0	23230	782	1	High	0.09	0.099	23.07	24.50	1.390	0.138	/
	State2&4		Right Tilt	0	23230	782	1	High	-0.04	0.047	23.07	24.50	1.390	0.065	/
	State2&4		Left Cheek	0	23230	782	25	High	0.09	0.083	21.58	23.50	1.556	0.129	/
	State2&4		Left Tilt	0	23230	782	25	High	-0.15	0.045	21.58	23.50	1.556	0.070	/
	State2&4		Right Cheek	0	23230	782	25	High	0.02	0.063	21.58	23.50	1.556	0.098	/
	State2&4		Right Tilt	0	23230	782	25	High	0.02	0.038	21.58	23.50	1.556	0.059	/
<b>Body-worn</b>															
Ant.1	State1&3	QPSK	Front Side	15	23230	782	1	High	0.14	0.075	22.95	24.50	1.429	0.107	/
	State1&3		Back Side	15	23230	782	1	High	0.03	0.094	22.95	24.50	1.429	0.134	/
	State1&3		Front Side	15	23230	782	25	High	-0.05	0.054	21.73	23.50	1.503	0.081	/
	State1&3		Back Side	15	23230	782	25	High	0.02	0.067	21.73	23.50	1.503	0.101	/
Ant.0	State1&3	QPSK	Front Side	15	23230	782	1	High	0.04	0.079	23.07	24.50	1.390	0.110	/
	State1&3		Back Side	15	23230	782	1	High	0.01	0.106	23.07	24.50	1.390	<b>0.147</b>	<b>37#</b>
	State1&3		Front Side	15	23230	782	25	High	-0.07	0.054	21.58	23.50	1.556	0.084	/
	State1&3		Back Side	15	23230	782	25	High	-0.02	0.073	21.58	23.50	1.556	0.114	/
<b>Hotspot</b>															
Ant.1	State3	QPSK	Front Side	10	23230	782	1	High	0.07	0.104	22.95	24.50	1.429	0.149	/
	State3		Back Side	10	23230	782	1	High	0.01	0.164	22.95	24.50	1.429	<b>0.234</b>	<b>38#</b>
	State3		Left Edge	10	23230	782	1	High	0.03	0.088	22.95	24.50	1.429	0.126	/
	State3		Right Edge	10	23230	782	1	High	-0.07	0.083	22.95	24.50	1.429	0.119	/
	State3		Top Edge	10	23230	782	1	High	-0.06	0.130	22.95	24.50	1.429	0.186	/
	State3		Front Side	10	23230	782	25	High	0.07	0.075	21.73	23.50	1.503	0.113	/
	State3		Back Side	10	23230	782	25	High	-0.12	0.117	21.73	23.50	1.503	0.176	/
	State3		Left Edge	10	23230	782	25	High	-0.01	0.063	21.73	23.50	1.503	0.095	/

	State3		Right Edge	10	23230	782	25	High	0.02	0.069	21.73	23.50	1.503	0.104	/
	State3		Top Edge	10	23230	782	25	High	0.14	0.093	21.73	23.50	1.503	0.140	/
Ant.0	State3	QPSK	Front Side	10	23230	782	1	High	-0.03	0.080	23.07	24.50	1.390	0.111	/
	State3		Back Side	10	23230	782	1	High	0.00	0.158	23.07	24.50	1.390	0.220	/
	State3		Left Edge	10	23230	782	1	High	-0.08	0.072	23.07	24.50	1.390	0.100	/
	State3		Right Edge	10	23230	782	1	High	-0.12	0.077	23.07	24.50	1.390	0.107	/
	State3		Bottom Edge	10	23230	782	1	High	0.06	0.123	23.07	24.50	1.390	0.171	/
	State3		Front Side	10	23230	782	25	High	-0.01	0.055	21.58	23.50	1.556	0.086	/
	State3		Back Side	10	23230	782	25	High	0.07	0.109	21.58	23.50	1.556	0.170	/
	State3		Left Edge	10	23230	782	25	High	0.09	0.049	21.58	23.50	1.556	0.076	/
	State3		Right Edge	10	23230	782	25	High	0.02	0.052	21.58	23.50	1.556	0.081	/
	State3		Bottom Edge	10	23230	782	25	High	-0.02	0.087	21.58	23.50	1.556	0.135	/

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

### 11.13 LTE Band 17 (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	State2&4	QPSK	Left Cheek	0	23780	709	1	High	0.12	0.302	22.91	24.50	1.442	0.435	/
	State2&4		Left Tilt	0	23780	709	1	High	0.08	0.293	22.91	24.50	1.442	0.423	/
	State2&4		Right Cheek	0	23780	709	1	High	0.01	0.593	22.91	24.50	1.442	<b>0.855</b>	39#
	State2&4		Right Tilt	0	23780	709	1	High	0.14	0.491	22.91	24.50	1.442	0.708	/
	State2&4		Left Cheek	0	23780	709	25	High	-0.15	0.221	21.83	23.50	1.469	0.325	/
	State2&4		Left Tilt	0	23780	709	25	High	-0.03	0.217	21.83	23.50	1.469	0.319	/
	State2&4		Right Cheek	0	23780	709	25	High	0.14	0.435	21.83	23.50	1.469	0.639	/
	State2&4		Right Tilt	0	23780	709	25	High	0.13	0.362	21.83	23.50	1.469	0.532	/
	State2&4		Right Cheek	0	23790	710	1	High	-0.06	0.560	22.78	24.50	1.486	0.832	/
	State2&4		Right Cheek	0	23800	711	1	High	-0.11	0.547	22.86	24.50	1.459	0.798	/
	State2&4		Right Cheek	0	23800	711	50	Low	0.11	0.429	21.79	23.50	1.483	0.636	/
	Ant.0		State2&4	QPSK	Left Cheek	0	23780	709	1	High	0.10	0.099	23.12	24.50	1.374
State2&4		Left Tilt	0		23780	709	1	High	0.13	0.055	23.12	24.50	1.374	0.076	/
State2&4		Right Cheek	0		23780	709	1	High	0.06	0.084	23.12	24.50	1.374	0.115	/
State2&4		Right Tilt	0		23780	709	1	High	0.03	0.048	23.12	24.50	1.374	0.066	/
State2&4		Left Cheek	0		23800	711	25	High	-0.08	0.073	21.63	23.50	1.538	0.112	/
State2&4		Left Tilt	0		23800	711	25	High	-0.04	0.043	21.63	23.50	1.538	0.066	/
State2&4		Right Cheek	0		23800	711	25	High	-0.06	0.060	21.63	23.50	1.538	0.092	/
State2&4		Right Tilt	0		23800	711	25	High	0.10	0.040	21.63	23.50	1.538	0.062	/
<b>Body-worn</b>															
Ant.1	State1&3	QPSK	Front Side	15	23780	709	1	High	-0.10	0.095	22.91	24.50	1.442	0.137	/
	State1&3		Back Side	15	23780	709	1	High	0.06	0.120	22.91	24.50	1.442	0.173	/
	State1&3		Front Side	15	23780	709	25	High	-0.14	0.070	21.83	23.50	1.469	0.103	/
	State1&3		Back Side	15	23780	709	25	High	0.05	0.086	21.83	23.50	1.469	0.126	/
Ant.0	State1&3	QPSK	Front Side	15	23780	709	1	High	-0.14	0.107	23.12	24.50	1.374	0.147	/
	State1&3		Back Side	15	23780	709	1	High	0.01	0.165	23.12	24.50	1.374	<b>0.227</b>	40#
	State1&3		Front Side	15	23800	711	25	High	-0.06	0.078	21.63	23.50	1.538	0.120	/
	State1&3		Back Side	15	23800	711	25	High	-0.04	0.119	21.63	23.50	1.538	0.183	/
<b>Hotspot</b>															
Ant.1	State3	QPSK	Front Side	10	23780	709	1	High	-0.15	0.087	22.91	24.50	1.442	0.125	/
	State3		Back Side	10	23780	709	1	High	-0.08	0.130	22.91	24.50	1.442	0.187	/
	State3		Left Edge	10	23780	709	1	High	0.05	0.103	22.91	24.50	1.442	0.149	/
	State3		Right Edge	10	23780	709	1	High	0.05	0.130	22.91	24.50	1.442	0.187	/
	State3		Top Edge	10	23780	709	1	High	-0.14	0.093	22.91	24.50	1.442	0.134	/
	State3		Front Side	10	23780	709	25	High	-0.09	0.064	21.83	23.50	1.469	0.094	/
	State3		Back Side	10	23780	709	25	High	-0.08	0.097	21.83	23.50	1.469	0.142	/

	State3		Left Edge	10	23780	709	25	High	-0.03	0.074	21.83	23.50	1.469	0.109	/
	State3		Right Edge	10	23780	709	25	High	-0.15	0.092	21.83	23.50	1.469	0.135	/
	State3		Top Edge	10	23780	709	25	High	-0.01	0.069	21.83	23.50	1.469	0.101	/
Ant.0	State3	QPSK	Front Side	10	23780	709	1	High	-0.01	0.099	23.12	24.50	1.374	0.136	/
	State3		Back Side	10	23780	709	1	High	0.00	0.182	23.12	24.50	1.374	<b>0.250</b>	41#
	State3		Left Edge	10	23780	709	1	High	-0.15	0.117	23.12	24.50	1.374	0.161	/
	State3		Right Edge	10	23780	709	1	High	-0.14	0.171	23.12	24.50	1.374	0.235	/
	State3		Bottom Edge	10	23780	709	1	High	0.10	0.084	23.12	24.50	1.374	0.115	/
	State3		Front Side	10	23800	711	25	High	0.14	0.072	21.63	23.50	1.538	0.111	/
	State3		Back Side	10	23800	711	25	High	-0.06	0.133	21.63	23.50	1.538	0.205	/
	State3		Left Edge	10	23800	711	25	High	-0.01	0.084	21.63	23.50	1.538	0.129	/
	State3		Right Edge	10	23800	711	25	High	0.03	0.124	21.63	23.50	1.538	0.191	/
	State3		Bottom Edge	10	23800	711	25	High	-0.12	0.064	21.63	23.50	1.538	0.098	/

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

### 11.14 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	State2&4	QPSK	Left Cheek	0	26865	831.5	1	Low	-0.14	0.405	21.28	22.75	1.403	0.568	/
	State2&4		Left Tilt	0	26865	831.5	1	Low	0.07	0.363	21.28	22.75	1.403	0.509	/
	State2&4		Right Cheek	0	26865	831.5	1	Low	0.15	0.697	21.28	22.75	1.403	0.978	/
	State2&4		Right Tilt	0	26865	831.5	1	Low	-0.07	0.527	21.28	22.75	1.403	0.739	/
	State2&4		Left Cheek	0	26865	831.5	36	Low	-0.02	0.407	21.24	22.75	1.416	0.576	/
	State2&4		Left Tilt	0	26865	831.5	36	Low	-0.13	0.365	21.24	22.75	1.416	0.517	/
	State2&4		Right Cheek	0	26865	831.5	36	Low	0.01	0.699	21.24	22.75	1.416	<b>0.990</b>	42#
	State2&4		Right Tilt	0	26865	831.5	36	Low	0.11	0.537	21.24	22.75	1.416	0.760	/
	State2&4		Right Cheek	0	26765	821.5	1	High	0.06	0.676	21.25	22.75	1.413	0.955	/
	State2&4		Right Cheek	0	26965	841.5	1	Low	-0.04	0.671	21.22	22.75	1.422	0.954	/
	State2&4		Right Cheek	0	26765	821.5	36	High	-0.03	0.659	21.21	22.75	1.426	0.940	/
	State2&4		Right Cheek	0	26965	841.5	36	High	-0.13	0.675	21.20	22.75	1.429	0.965	/
	State2&4		Right Cheek	0	26865	831.5	75	Low	-0.05	0.658	21.22	22.75	1.422	0.936	/
	Ant.0		State2&4	QPSK	Left Cheek	0	26865	831.5	1	Low	-0.05	0.143	22.77	24.00	1.327
State2&4		Left Tilt	0		26865	831.5	1	Low	0.10	0.081	22.77	24.00	1.327	0.107	/
State2&4		Right Cheek	0		26865	831.5	1	Low	-0.01	0.116	22.77	24.00	1.327	0.154	/
State2&4		Right Tilt	0		26865	831.5	1	Low	0.08	0.062	22.77	24.00	1.327	0.082	/
State2&4		Left Cheek	0		26865	831.5	36	High	0.10	0.117	21.77	23.00	1.327	0.155	/
State2&4		Left Tilt	0		26865	831.5	36	High	-0.14	0.065	21.77	23.00	1.327	0.086	/
State2&4		Right Cheek	0		26865	831.5	36	High	-0.07	0.092	21.77	23.00	1.327	0.122	/
State2&4		Right Tilt	0		26865	831.5	36	High	0.14	0.048	21.77	23.00	1.327	0.064	/
<b>Body-worn</b>															
Ant.1	State1&3	QPSK	Front Side	15	26765	821.5	1	High	0.04	0.092	22.62	24.00	1.374	0.126	/
	State1&3		Back Side	15	26765	821.5	1	High	0.03	0.104	22.62	24.00	1.374	0.143	/
	State1&3		Front Side	15	26865	831.5	36	Low	-0.04	0.074	21.56	23.00	1.393	0.103	/
	State1&3		Back Side	15	26865	831.5	36	Low	0.09	0.083	21.56	23.00	1.393	0.116	/
Ant.0	State1&3	QPSK	Front Side	15	26865	831.5	1	Low	0.01	0.085	22.77	24.00	1.327	0.113	/
	State1&3		Back Side	15	26865	831.5	1	Low	-0.02	0.123	22.77	24.00	1.327	<b>0.163</b>	43#
	State1&3		Front Side	15	26865	831.5	36	High	0.06	0.069	21.77	23.00	1.327	0.092	/
	State1&3		Back Side	15	26865	831.5	36	High	-0.06	0.099	21.77	23.00	1.327	0.131	/
<b>Hotspot</b>															
Ant.1	State3	QPSK	Front Side	10	26765	821.5	1	High	-0.09	0.119	22.62	24.00	1.374	0.164	/
	State3		Back Side	10	26765	821.5	1	High	0.12	0.169	22.62	24.00	1.374	0.232	/
	State3		Left Edge	10	26765	821.5	1	High	-0.04	0.071	22.62	24.00	1.374	0.098	/
	State3		Right Edge	10	26765	821.5	1	High	0.10	0.076	22.62	24.00	1.374	0.104	/
	State3		Top Edge	10	26765	821.5	1	High	-0.14	0.162	22.62	24.00	1.374	0.223	/



	State3		Front Side	10	26865	831.5	36	Low	-0.03	0.097	21.56	23.00	1.393	0.135	/
	State3		Back Side	10	26865	831.5	36	Low	0.04	0.136	21.56	23.00	1.393	0.189	/
	State3		Left Edge	10	26865	831.5	36	Low	0.13	0.057	21.56	23.00	1.393	0.079	/
	State3		Right Edge	10	26865	831.5	36	Low	0.15	0.059	21.56	23.00	1.393	0.082	/
	State3		Top Edge	10	26865	831.5	36	Low	-0.08	0.126	21.56	23.00	1.393	0.176	/
Ant.0	State3	QPSK	Front Side	10	26865	831.5	1	Low	0.08	0.101	22.77	24.00	1.327	0.134	/
	State3		Back Side	10	26865	831.5	1	Low	0.00	0.190	22.77	24.00	1.327	<b>0.252</b>	44#
	State3		Left Edge	10	26865	831.5	1	Low	0.11	0.063	22.77	24.00	1.327	0.084	/
	State3		Right Edge	10	26865	831.5	1	Low	-0.10	0.113	22.77	24.00	1.327	0.150	/
	State3		Bottom Edge	10	26865	831.5	1	Low	-0.10	0.143	22.77	24.00	1.327	0.190	/
	State3		Front Side	10	26865	831.5	36	High	-0.06	0.081	21.77	23.00	1.327	0.107	/
	State3		Back Side	10	26865	831.5	36	High	0.01	0.156	21.77	23.00	1.327	0.207	/
	State3		Left Edge	10	26865	831.5	36	High	0.07	0.051	21.77	23.00	1.327	0.068	/
	State3		Right Edge	10	26865	831.5	36	High	-0.08	0.089	21.77	23.00	1.327	0.118	/
	State3		Bottom Edge	10	26865	831.5	36	High	0.07	0.119	21.77	23.00	1.327	0.158	/

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

### 11.15 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 SA R(W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>															
Ant.1	State2&4	QPSK	Left Cheek	0	132322	1745	1	Low	0.06	0.514	17.20	17.25	1.012	0.520	/
	State2&4		Left Tilt	0	132322	1745	1	Low	0.02	0.637	17.20	17.25	1.012	0.645	/
	State2&4		Right Cheek	0	132322	1745	1	Low	-0.04	0.781	17.20	17.25	1.012	0.790	/
	State2&4		Right Tilt	0	132322	1745	1	Low	0.07	0.981	17.20	17.25	1.012	0.993	/
	State2&4		Left Cheek	0	132322	1745	50	Low	0.09	0.514	17.25	17.25	1.000	0.514	/
	State2&4		Left Tilt	0	132322	1745	50	Low	0.12	0.641	17.25	17.25	1.000	0.641	/
	State2&4		Right Cheek	0	132322	1745	50	Low	0.14	0.784	17.25	17.25	1.000	0.784	/
	State2&4		Right Tilt	0	132322	1745	50	Low	0.00	1.000	17.25	17.25	1.000	<b>1.000</b>	45#
	State2&4		Right Tilt	0	132072	1720	1	Mid	-0.13	0.886	17.18	17.25	1.016	0.900	/
	State2&4		Right Tilt	0	132572	1770	1	Low	-0.01	0.899	17.19	17.25	1.014	0.912	/
	State2&4		Right Tilt	0	132072	1720	50	High	-0.12	0.903	17.23	17.25	1.005	0.908	/
	State2&4		Right Tilt	0	132572	1770	50	High	0.06	0.900	17.22	17.25	1.007	0.906	/
	State2&4		Right Tilt	0	132572	1770	100	Low	-0.04	0.961	17.23	17.25	1.005	0.966	/
Ant.2	State2&4	QPSK	Left Cheek	0	132322	1745	1	High	-0.08	0.062	22.11	22.50	1.094	0.068	/
	State2&4		Left Tilt	0	132322	1745	1	High	-0.01	0.052	22.11	22.50	1.094	0.057	/
	State2&4		Right Cheek	0	132322	1745	1	High	0.15	0.163	22.11	22.50	1.094	0.178	/
	State2&4		Right Tilt	0	132322	1745	1	High	-0.06	0.055	22.11	22.50	1.094	0.060	/
	State2&4		Left Cheek	0	132322	1745	50	High	-0.07	0.051	21.03	21.50	1.114	0.057	/
	State2&4		Left Tilt	0	132322	1745	50	High	-0.08	0.043	21.03	21.50	1.114	0.048	/
	State2&4		Right Cheek	0	132322	1745	50	High	0.12	0.132	21.03	21.50	1.114	0.147	/
	State2&4		Right Tilt	0	132322	1745	50	High	-0.13	0.043	21.03	21.50		0.000	/
Ant.0	State2&4	QPSK	Left Cheek	0	132072	1720	1	High	0.08	0.188	23.38	24.00	1.153	0.217	/
	State2&4		Left Tilt	0	132072	1720	1	High	-0.09	0.085	23.38	24.00	1.153	0.098	/
	State2&4		Right Cheek	0	132072	1720	1	High	-0.09	0.096	23.38	24.00	1.153	0.111	/
	State2&4		Right Tilt	0	132072	1720	1	High	-0.04	0.092	23.38	24.00	1.153	0.106	/
	State2&4		Left Cheek	0	132322	1745	50	High	-0.11	0.148	22.33	23.00	1.167	0.173	/
	State2&4		Left Tilt	0	132322	1745	50	High	-0.07	0.069	22.33	23.00	1.167	0.081	/
	State2&4		Right Cheek	0	132322	1745	50	High	-0.04	0.072	22.33	23.00	1.167	0.084	/
	State2&4		Right Tilt	0	132322	1745	50	High	-0.14	0.071	22.33	23.00	1.167	0.083	/
<b>Body-worn</b>															
Ant.1	State1&3	QPSK	Front Side	15	132322	1745	1	Low	0.06	0.173	19.99	20.00	1.002	0.173	/
	State1&3		Back Side	15	132322	1745	1	Low	0.00	0.241	19.99	20.00	1.002	<b>0.241</b>	46#
	State1&3		Front Side	15	132072	1720	50	High	-0.03	0.172	20.00	20.00	1.000	0.172	/
	State1&3		Back Side	15	132072	1720	50	High	-0.04	0.238	20.00	20.00	1.000	0.238	/
Ant.0	State1&3	QPSK	Front Side	15	132572	1770	1	High	0.05	0.071	20.35	21.00	1.161	0.082	/
	State1&3		Back Side	15	132572	1770	1	High	0.03	0.108	20.35	21.00	1.161	0.125	/

	State1&3		Front Side	15	132322	1745	50	High	-0.14	0.086	20.29	21.00	1.178	0.101	/
	State1&3		Back Side	15	132322	1745	50	High	0.15	0.130	20.29	21.00	1.178	0.153	/
Ant.2	State1&3	QPSK	Front Side	15	132322	1745	1	High	0.10	0.014	21.60	22.00	1.096	0.015	/
	State1&3		Back Side	15	132322	1745	1	High	-0.01	0.029	21.60	22.00	1.096	0.032	/
	State1&3		Front Side	15	132322	1745	50	High	0.06	0.013	21.02	21.50	1.117	0.015	/
	State1&3		Back Side	15	132322	1745	50	High	-0.05	0.026	21.02	21.50	1.117	0.029	/
<b>Hotspot</b>															
Ant.1	State3	QPSK	Front Side	10	132322	1745	1	Low	0.14	0.297	19.99	20.00	1.002	0.298	/
	State3		Back Side	10	132322	1745	1	Low	-0.01	0.383	19.99	20.00	1.002	0.384	/
	State3		Left Edge	10	132322	1745	1	Low	-0.06	0.031	19.99	20.00	1.002	0.031	/
	State3		Right Edge	10	132322	1745	1	Low	0.10	0.058	19.99	20.00	1.002	0.058	/
	State3		Top Edge	10	132322	1745	1	Low	0.00	0.601	19.99	20.00	1.002	<b>0.602</b>	47#
	State3		Front Side	10	132072	1720	50	High	-0.14	0.299	20.00	20.00	1.000	0.299	/
	State3		Back Side	10	132072	1720	50	High	-0.15	0.386	20.00	20.00	1.000	0.386	/
	State3		Left Edge	10	132072	1720	50	High	0.04	0.031	20.00	20.00	1.000	0.031	/
	State3		Right Edge	10	132072	1720	50	High	0.15	0.058	20.00	20.00	1.000	0.058	/
	State3		Top Edge	10	132072	1720	50	High	0.07	0.595	20.00	20.00	1.000	0.595	/
Ant.0	State3	QPSK	Front Side	10	132572	1770	1	High	-0.06	0.216	20.35	21.00	1.161	0.251	/
	State3		Back Side	10	132572	1770	1	High	0.08	0.360	20.35	21.00	1.161	0.418	/
	State3		Left Edge	10	132572	1770	1	High	-0.15	0.094	20.35	21.00	1.161	0.109	/
	State3		Right Edge	10	132572	1770	1	High	-0.05	0.051	20.35	21.00	1.161	0.059	/
	State3		Bottom Edge	10	132572	1770	1	High	0.01	0.462	20.35	21.00	1.161	0.536	/
	State3		Front Side	10	132322	1745	50	High	0.08	0.202	20.29	21.00	1.178	0.238	/
	State3		Back Side	10	132322	1745	50	High	0.10	0.351	20.29	21.00	1.178	0.413	/
	State3		Left Edge	10	132322	1745	50	High	-0.13	0.091	20.29	21.00	1.178	0.107	/
	State3		Right Edge	10	132322	1745	50	High	-0.12	0.048	20.29	21.00	1.178	0.057	/
	State3		Bottom Edge	10	132322	1745	50	High	-0.13	0.454	20.29	21.00	1.178	0.535	/
Ant.2	State3	QPSK	Front Side	10	132322	1745	1	High	-0.06	0.028	21.60	22.00	1.096	0.031	/
	State3		Back Side	10	132322	1745	1	High	0.08	0.072	21.60	22.00	1.096	0.079	/
	State3		Right Edge	10	132322	1745	1	High	0.14	0.094	21.60	22.00	1.096	0.103	/
	State3		Front Side	10	132322	1745	50	High	0.11	0.025	21.02	21.50	1.117	0.028	/
	State3		Back Side	10	132322	1745	50	High	0.04	0.057	21.02	21.50	1.117	0.064	/
	State3		Right Edge	10	132322	1745	50	High	-0.11	0.086	21.02	21.50	1.117	0.096	/
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	State1&3	QPSK	Top Edge	0	132322	1745	1	Low	0.02	1.470	19.99	20.00	1.002	<b>1.473</b>	48#
	State1&3		Top Edge	0	132072	1720	50	High	0.01	1.320	20.00	20.00	1.000	1.320	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

### 11.16 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	State2&4	QPSK	Left Cheek	0	38150	2610	1	Mid	-0.13	0.273	19.19	20.00	1.205	0.329	/
	State2&4		Left Tilt	0	38150	2610	1	Mid	0.14	0.382	19.19	20.00	1.205	0.460	/
	State2&4		Right Cheek	0	38150	2610	1	Mid	-0.02	0.648	19.19	20.00	1.205	0.781	/
	State2&4		Right Tilt	0	38150	2610	1	Mid	-0.02	0.843	19.19	20.00	1.205	<b>1.016</b>	49#
	State2&4		Left Cheek	0	38150	2610	50	High	0.00	0.275	19.12	20.00	1.225	0.337	/
	State2&4		Left Tilt	0	38150	2610	50	High	-0.02	0.382	19.12	20.00	1.225	0.468	/
	State2&4		Right Cheek	0	38150	2610	50	High	0.12	0.652	19.12	20.00	1.225	0.799	/
	State2&4		Right Tilt	0	38150	2610	50	High	0.08	0.786	19.12	20.00	1.225	0.963	/
	State2&4		Right Tilt	0	37850	2580	1	High	-0.07	0.792	18.95	20.00	1.274	1.009	/
	State2&4		Right Tilt	0	38000	2595	1	Mid	0.10	0.787	19.05	20.00	1.245	0.980	/
	State2&4		Right Tilt	0	37850	2580	50	Mid	-0.06	0.777	18.91	20.00	1.285	0.998	/
	State2&4		Right Tilt	0	38000	2595	50	High	0.03	0.803	19.02	20.00	1.253	1.006	/
	State2&4		Right Tilt	0	38150	2610	100	Low	0.13	0.779	19.02	20.00	1.253	0.976	/
Ant.2	State2&4	QPSK	Left Cheek	0	38000	2595	1	Low	-0.10	0.173	21.24	23.00	1.500	0.260	/
	State2&4		Left Tilt	0	38000	2595	1	Low	-0.06	0.064	21.24	23.00	1.500	0.096	/
	State2&4		Right Cheek	0	38000	2595	1	Low	-0.02	0.448	21.24	23.00	1.500	0.672	/
	State2&4		Right Tilt	0	38000	2595	1	Low	0.10	0.134	21.24	23.00	1.500	0.201	/
	State2&4		Left Cheek	0	38000	2595	50	Low	-0.07	0.134	20.26	22.00	1.493	0.200	/
	State2&4		Left Tilt	0	38000	2595	50	Low	-0.01	0.045	20.26	22.00	1.493	0.067	/
	State2&4		Right Cheek	0	38000	2595	50	Low	0.00	0.342	20.26	22.00	1.493	0.511	/
	State2&4		Right Tilt	0	38000	2595	50	Low	0.06	0.099	20.26	22.00	1.493	0.148	/
Ant.0	State2&4	QPSK	Left Cheek	0	38150	2610	1	High	-0.10	0.130	23.15	24.00	1.216	0.158	/
	State2&4		Left Tilt	0	38150	2610	1	High	-0.14	0.105	23.15	24.00	1.216	0.128	/
	State2&4		Right Cheek	0	38150	2610	1	High	0.07	0.249	23.15	24.00	1.216	0.303	/
	State2&4		Right Tilt	0	38150	2610	1	High	-0.07	0.138	23.15	24.00	1.216	0.168	/
	State2&4		Left Cheek	0	38150	2610	50	High	0.01	0.105	22.12	23.00	1.225	0.129	/
	State2&4		Left Tilt	0	38150	2610	50	High	-0.08	0.085	22.12	23.00	1.225	0.104	/
	State2&4		Right Cheek	0	38150	2610	50	High	-0.07	0.191	22.12	23.00	1.225	0.234	/
	State2&4		Right Tilt	0	38150	2610	50	High	-0.09	0.109	22.12	23.00	1.225	0.134	/
<b>Body-worn</b>															
Ant.1	State1&3	QPSK	Front Side	15	38150	2610	1	Mid	0.13	0.122	22.35	23.25	1.230	0.150	/
	State1&3		Back Side	15	38150	2610	1	Mid	0.03	0.292	22.35	23.25	1.230	<b>0.359</b>	50#
	State1&3		Front Side	15	38150	2610	50	Mid	0.04	0.113	22.04	23.00	1.247	0.141	/
	State1&3		Back Side	15	38150	2610	50	Mid	-0.10	0.275	22.04	23.00	1.247	0.343	/
Ant.2	State1&3	QPSK	Front Side	15	38000	2595	1	Mid	-0.06	0.068	18.76	20.50	1.493	0.102	/
	State1&3		Back Side	15	38000	2595	1	Mid	-0.15	0.171	18.76	20.50	1.493	0.255	/

	State1&3		Front Side	15	38000	2595	50	Mid	-0.06	0.049	18.79	20.50	1.483	0.073	/
	State1&3		Back Side	15	38000	2595	50	Mid	-0.03	0.132	18.79	20.50	1.483	0.196	/
Ant.0	State1&3	QPSK	Front Side	15	38150	2610	1	High	-0.13	0.148	23.15	24.00	1.216	0.180	/
	State1&3		Back Side	15	38150	2610	1	High	0.12	0.230	23.15	24.00	1.216	0.280	/
	State1&3		Front Side	15	38150	2610	50	High	0.01	0.119	22.12	23.00	1.225	0.146	/
	State1&3		Back Side	15	38150	2610	50	High	-0.11	0.181	22.12	23.00	1.225	0.222	/
<b>Hotspot</b>															
Ant.1	State3	QPSK	Front Side	10	38150	2610	1	Mid	-0.01	0.251	22.35	23.25	1.230	0.309	/
	State3		Back Side	10	38150	2610	1	Mid	-0.04	0.630	22.35	23.25	1.230	0.775	/
	State3		Left Edge	10	38150	2610	1	Mid	-0.14	0.000	22.35	23.25	1.230	0.000	/
	State3		Right Edge	10	38150	2610	1	Mid	0.07	0.162	22.35	23.25	1.230	0.199	/
	State3		Top Edge	10	38150	2610	1	Mid	-0.04	0.824	22.35	23.25	1.230	<b>1.014</b>	51#
	State3		Front Side	10	38150	2610	50	Mid	-0.04	0.239	22.04	23.00	1.247	0.298	/
	State3		Back Side	10	38150	2610	50	Mid	0.03	0.604	22.04	23.00	1.247	0.753	/
	State3		Left Edge	10	38150	2610	50	Mid	0.05	0.000	22.04	23.00	1.247	0.000	/
	State3		Right Edge	10	38150	2610	50	Mid	0.03	0.154	22.04	23.00	1.247	0.192	/
	State3		Top Edge	10	38150	2610	50	Mid	0.09	0.777	22.04	23.00	1.247	0.969	/
	State3		Top Edge	10	37850	2580	1	High	0.02	0.788	22.20	23.25	1.274	1.004	/
	State3		Top Edge	10	38000	2595	1	High	-0.09	0.798	22.22	23.25	1.268	1.012	/
	State3		Top Edge	10	37850	2580	50	Mid	0.06	0.649	21.91	23.00	1.285	0.834	/
	State3		Top Edge	10	38000	2595	50	Mid	-0.10	0.673	21.96	23.00	1.271	0.855	/
	State3		Top Edge	10	38150	2610	100	Low	0.01	0.642	21.99	23.00	1.262	0.810	/
Ant.2	State3	QPSK	Front Side	10	38000	2595	1	Low	0.07	0.080	18.76	20.50	1.493	0.119	/
	State3		Back Side	10	38000	2595	1	Low	0.05	0.244	18.76	20.50	1.493	0.364	/
	State3		Right Edge	10	38000	2595	1	Low	0.14	0.206	18.76	20.50	1.493	0.308	/
	State3		Front Side	10	38000	2595	50	Low	0.02	0.077	18.79	20.50	1.483	0.114	/
	State3		Back Side	10	38000	2595	50	Low	-0.11	0.239	18.79	20.50	1.483	0.354	/
	State3		Right Edge	10	38000	2595	50	Low	-0.02	0.201	18.79	20.50	1.483	0.298	/
Ant.0	State3	QPSK	Front Side	10	38150	2610	1	High	0.14	0.280	23.15	24.00	1.216	0.340	/
	State3		Back Side	10	38150	2610	1	High	0.02	0.427	23.15	24.00	1.216	0.519	/
	State3		Left Edge	10	38150	2610	1	High	-0.01	0.274	23.15	24.00	1.216	0.333	/
	State3		Right Edge	10	38150	2610	1	High	0.06	0.070	23.15	24.00	1.216	0.085	/
	State3		Bottom Edge	10	38150	2610	1	High	0.05	0.280	23.15	24.00	1.216	0.340	/
	State3		Front Side	10	38150	2610	50	High	-0.11	0.220	22.12	23.00	1.225	0.270	/
	State3		Back Side	10	38150	2610	50	High	0.08	0.337	22.12	23.00	1.225	0.413	/
	State3		Left Edge	10	38150	2610	50	High	-0.01	0.217	22.12	23.00	1.225	0.266	/
	State3		Right Edge	10	38150	2610	50	High	-0.15	0.054	22.12	23.00	1.225	0.066	/
	State3		Bottom Edge	10	38150	2610	50	High	0.01	0.216	22.12	23.00	1.225	0.265	/
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	State1&3	QPSK	Top Edge	0	38150	2610	1	Mid	0.01	2.150	22.35	23.25	1.230	<b>2.645</b>	52#
	State1&3		Top Edge	0	38150	2610	50	Mid	-0.03	1.930	22.04	23.00	1.247	2.407	/
	State1&3		Top Edge	0	37850	2580	1	High	0.02	2.050	22.20	23.25	1.274	2.612	/
	State1&3		Top Edge	0	38000	2595	1	High	0.11	2.000	22.22	23.25	1.268	2.536	/
	State1&3		Top Edge	0	37850	2580	50	Mid	0.11	1.680	21.91	23.00	1.285	2.159	/
	State1&3		Top Edge	0	38000	2595	50	Mid	0.12	1.590	21.96	23.00	1.271	2.021	/
	State1&3		Top Edge	0	38150	2610	100	Low	-0.09	1.640	21.99	23.00	1.262	2.070	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

### 11.17 LTE Band 38 Worse case for CA Test

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-CA</b>															
Ant.1	State2&4	QPSK	Right Tilt	0	38150 +37952	2610 +2590.2	1+1	Low +High	0.08	0.776	18.86	20.00	1.300	1.009	/
<b>Body-worn-CA</b>															
Ant.1	State1&3	QPSK	Back Side	15	38150 +37952	2610 +2590.2	1+1	Low +High	-0.10	0.268	22.02	23.25	1.327	0.356	/
<b>Hotspot-CA</b>															
Ant.1	State3	QPSK	Top Edge	10	38150 +37952	2610 +2590.2	1+1	Low +High	0.03	0.762	22.02	23.25	1.327	1.011	/
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-CA</b>															
Ant.1	State1&3	QPSK	Top Edge	0	38150 +37952	2610 +2590.2	1+1	Low +High	-0.03	1.930	22.02	23.25	1.327	2.561	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															



### 11.18 LTE Band 41 (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	State2&4	QPSK	Left Cheek	0	40620	2593	1	Mid	-0.06	0.272	19.31	20.25	1.242	0.338	/
	State2&4		Left Tilt	0	40620	2593	1	Mid	0.14	0.367	19.31	20.25	1.242	0.456	/
	State2&4		Right Cheek	0	40620	2593	1	Mid	-0.12	0.639	19.31	20.25	1.242	0.794	/
	State2&4		Right Tilt	0	40620	2593	1	Mid	0.08	0.887	19.31	20.25	1.242	<b>1.102</b>	53#
	State2&4		Left Cheek	0	40620	2593	50	High	-0.04	0.246	19.29	20.25	1.247	0.307	/
	State2&4		Left Tilt	0	40620	2593	50	High	-0.07	0.333	19.29	20.25	1.247	0.415	/
	State2&4		Right Cheek	0	40620	2593	50	High	0.05	0.580	19.29	20.25	1.247	0.723	/
	State2&4		Right Tilt	0	40620	2593	50	High	-0.04	0.749	19.29	20.25	1.247	0.934	/
	State2&4		Right Tilt	0	39750	2506	1	Mid	-0.07	0.615	18.95	20.25	1.349	0.830	/
	State2&4		Right Tilt	0	40185	2549.5	1	Low	-0.13	0.722	19.13	20.25	1.294	0.934	/
	State2&4		Right Tilt	0	41055	2636.5	1	Low	0.03	0.862	19.26	20.25	1.256	1.083	/
	State2&4		Right Tilt	0	41490	2680	1	Mid	-0.08	0.738	19.22	20.25	1.268	0.936	/
	State2&4		Right Tilt	0	39750	2506	50	Mid	-0.11	0.475	18.89	20.25	1.368	0.650	/
	State2&4		Right Tilt	0	40185	2549.5	50	Mid	0.06	0.664	18.97	20.25	1.343	0.892	/
	State2&4		Right Tilt	0	41055	2636.5	50	High	0.09	0.743	19.24	20.25	1.262	0.938	/
	State2&4		Right Tilt	0	41490	2680	50	Mid	-0.05	0.666	19.27	20.25	1.253	0.834	/
	State2&4		Right Tilt	0	41490	2680	100	Low	0.07	0.756	19.19	20.25	1.276	0.965	/
	Ant.2		State2&4	QPSK	Left Cheek	0	39750	2506	1	Low	-0.06	0.218	22.70	23.50	1.202
State2&4		Left Tilt	0		39750	2506	1	Low	0.08	0.071	22.70	23.50	1.202	0.085	/
State2&4		Right Cheek	0		39750	2506	1	Low	-0.02	0.505	22.70	23.50	1.202	0.607	/
State2&4		Right Tilt	0		39750	2506	1	Low	-0.02	0.149	22.70	23.50	1.202	0.179	/
State2&4		Left Cheek	0		41055	2636.5	50	Mid	0.00	0.151	21.42	22.50	1.282	0.194	/
State2&4		Left Tilt	0		41055	2636.5	50	Mid	0.12	0.065	21.42	22.50	1.282	0.083	/
State2&4		Right Cheek	0		41055	2636.5	50	Mid	0.02	0.347	21.42	22.50	1.282	0.445	/
State2&4		Right Tilt	0		41055	2636.5	50	Mid	0.12	0.100	21.42	22.50	1.282	0.128	/
Ant.0	State2&4	QPSK	Left Cheek	0	40620	2593	1	Mid	0.12	0.147	23.56	24.50	1.242	0.183	/
	State2&4		Left Tilt	0	40620	2593	1	Mid	0.13	0.111	23.56	24.50	1.242	0.138	/
	State2&4		Right Cheek	0	40620	2593	1	Mid	0.09	0.272	23.56	24.50	1.242	0.338	/
	State2&4		Right Tilt	0	40620	2593	1	Mid	-0.08	0.155	23.56	24.50	1.242	0.193	/
	State2&4		Left Cheek	0	41490	2680	50	Low	-0.05	0.101	22.09	23.50	1.384	0.140	/
	State2&4		Left Tilt	0	41490	2680	50	Low	0.14	0.079	22.09	23.50	1.384	0.109	/
	State2&4		Right Cheek	0	41490	2680	50	Low	0.02	0.191	22.09	23.50	1.384	0.264	/
	State2&4		Right Tilt	0	41490	2680	50	Low	0.15	0.113	22.09	23.50	1.384	0.156	/
<b>Body-worn</b>															
Ant.1	State1&3	QPSK	Front Side	15	40620	2593	1	Mid	-0.05	0.104	21.78	22.75	1.250	0.130	/
	State1&3		Back Side	15	40620	2593	1	Mid	0.05	0.256	21.78	22.75	1.250	<b>0.320</b>	54#

	State1&3		Front Side	15	40620	2593	50	Mid	0.09	0.090	21.75	22.75	1.259	0.113	/
	State1&3		Back Side	15	40620	2593	50	Mid	-0.03	0.225	21.75	22.75	1.259	0.283	/
Ant.2	State1&3	QPSK	Front Side	15	39750	2506	1	Mid	-0.12	0.035	19.69	20.50	1.205	0.042	/
	State1&3		Back Side	15	39750	2506	1	Mid	0.13	0.096	19.69	20.50	1.205	0.116	/
	State1&3		Front Side	15	39750	2506	50	Mid	0.07	0.030	19.54	20.50	1.247	0.037	/
	State1&3		Back Side	15	39750	2506	50	Mid	0.13	0.083	19.54	20.50	1.247	0.104	/
Ant.0	State1&3	QPSK	Front Side	15	40620	2593	1	Mid	0.09	0.127	22.64	23.50	1.219	0.155	/
	State1&3		Back Side	15	40620	2593	1	Mid	0.02	0.209	22.64	23.50	1.219	0.255	/
	State1&3		Front Side	15	41055	2636.5	50	High	0.13	0.112	22.25	23.50	1.334	0.149	/
	State1&3		Back Side	15	41055	2636.5	50	High	-0.08	0.182	22.25	23.50	1.334	0.243	/
<b>Hotspot</b>															
Ant.1	State3	QPSK	Front Side	10	40620	2593	1	Mid	0.14	0.224	21.78	22.75	1.250	0.280	/
	State3		Back Side	10	40620	2593	1	Mid	0.06	0.562	21.78	22.75	1.250	0.703	/
	State3		Left Edge	10	40620	2593	1	Mid	0.08	0.000	21.78	22.75	1.250	0.000	/
	State3		Right Edge	10	40620	2593	1	Mid	0.11	0.144	21.78	22.75	1.250	0.180	/
	State3		Top Edge	10	40620	2593	1	Mid	0.03	0.738	21.78	22.75	1.250	<b>0.923</b>	55#
	State3		Front Side	10	40620	2593	50	Mid	-0.07	0.198	21.75	22.75	1.259	0.249	/
	State3		Back Side	10	40620	2593	50	Mid	-0.07	0.508	21.75	22.75	1.259	0.640	/
	State3		Left Edge	10	40620	2593	50	Mid	0.09	0.000	21.75	22.75	1.259	0.000	/
	State3		Right Edge	10	40620	2593	50	Mid	-0.09	0.130	21.75	22.75	1.259	0.164	/
	State3		Top Edge	10	40620	2593	50	Mid	0.03	0.659	21.75	22.75	1.259	0.830	/
	State3		Top Edge	10	39750	2506	1	Low	0.12	0.543	21.38	22.75	1.371	0.744	/
	State3		Top Edge	10	40185	2549.5	1	Mid	-0.12	0.633	21.38	22.75	1.371	0.868	/
	State3		Top Edge	10	41055	2636.5	1	Mid	-0.06	0.726	21.75	22.75	1.259	0.914	/
	State3		Top Edge	10	41490	2680	1	Mid	-0.10	0.633	21.75	22.75	1.259	0.797	/
	State3		Top Edge	10	39750	2506	50	Low	-0.13	0.479	21.36	22.75	1.377	0.660	/
	State3		Top Edge	10	40185	2549.5	50	High	0.05	0.579	21.42	22.75	1.358	0.786	/
	State3		Top Edge	10	41055	2636.5	50	Low	-0.01	0.646	21.55	22.75	1.318	0.851	/
	State3		Top Edge	10	41490	2680	50	Mid	0.02	0.558	21.72	22.75	1.268	0.708	/
	State3		Top Edge	10	41490	2680	100	Low	0.10	0.658	21.64	22.75	1.291	0.849	/
	Ant.2		State3	QPSK	Front Side	10	39750	2506	1	Mid	0.14	0.079	19.69	20.50	1.205
State3		Back Side	10		39750	2506	1	Mid	0.03	0.251	19.69	20.50	1.205	0.302	/
State3		Right Edge	10		39750	2506	1	Mid	-0.11	0.228	19.69	20.50	1.205	0.275	/
State3		Front Side	10		39750	2506	50	Mid	-0.13	0.065	19.54	20.50	1.247	0.081	/
State3		Back Side	10		39750	2506	50	Mid	-0.15	0.221	19.54	20.50	1.247	0.276	/
State3		Right Edge	10		39750	2506	50	Mid	0.03	0.203	19.54	20.50	1.247	0.253	/
Ant.0	State3	QPSK	Front Side	10	40620	2593	1	Mid	-0.01	0.187	22.64	23.50	1.219	0.228	/
	State3		Back Side	10	40620	2593	1	Mid	-0.03	0.315	22.64	23.50	1.219	0.384	/
	State3		Left Edge	10	40620	2593	1	Mid	0.10	0.206	22.64	23.50	1.219	0.251	/
	State3		Right Edge	10	40620	2593	1	Mid	-0.09	0.052	22.64	23.50	1.219	0.063	/
	State3		Bottom Edge	10	40620	2593	1	Mid	-0.05	0.210	22.64	23.50	1.219	0.256	/
	State3		Front Side	10	41055	2636.5	50	High	-0.06	0.167	22.25	23.50	1.334	0.223	/
	State3		Back Side	10	41055	2636.5	50	High	0.08	0.279	22.25	23.50	1.334	0.372	/

	State3		Left Edge	10	41055	2636.5	50	High	-0.12	0.181	22.25	23.50	1.334	0.241	/
	State3		Right Edge	10	41055	2636.5	50	High	0.04	0.045	22.25	23.50	1.334	0.060	/
	State3		Bottom Edge	10	41055	2636.5	50	High	-0.14	0.182	22.25	23.50	1.334	0.243	/

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.1	State1&3	QPSK	Top Edge	0	40620	2593	1	Mid	-0.01	2.120	21.78	22.75	1.250	<b>2.650</b>	56#
	State1&3		Top Edge	0	40620	2593	50	Mid	0.09	1.950	21.75	22.75	1.259	2.455	/
	State1&3		Top Edge	0	39750	2506	1	Low	0.01	1.900	21.38	22.75	1.371	2.605	/
	State1&3		Top Edge	0	40185	2549.5	1	Mid	-0.12	1.790	21.38	22.75	1.371	2.454	/
	State1&3		Top Edge	0	41055	2636.5	1	Mid	-0.04	1.900	21.75	22.75	1.259	2.392	/
	State1&3		Top Edge	0	41490	2680	1	Mid	-0.14	2.090	21.75	22.75	1.259	2.631	/
	State1&3		Top Edge	0	39750	2506	50	Low	0.00	1.820	21.36	22.75	1.377	2.506	/
	State1&3		Top Edge	0	40185	2549.5	50	High	0.08	1.760	21.42	22.75	1.358	2.390	/
	State1&3		Top Edge	0	41055	2636.5	50	Low	0.15	1.900	21.55	22.75	1.318	2.504	/
	State1&3		Top Edge	0	41490	2680	50	Mid	-0.09	1.990	21.72	22.75	1.268	2.523	/
	State1&3		Top Edge	0	41490	2680	100	Low	0.03	1.920	21.64	22.75	1.291	2.479	/

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

### 11.19 LTE Band 41 Worse case for CA Test

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-CA</b>															
Ant.1	State2&4	QPSK	Right Tilt	0	40620 +40818	2593 +2612.8	1+1	High +Low	0.05	0.805	18.93	20.25	1.355	1.091	/
<b>Body-worn-CA</b>															
Ant.1	State1&3	QPSK	Back Side	15	40620 +40818	2593 +2612.8	1+1	High +Low	0.06	0.230	21.42	22.75	1.358	0.312	/
<b>Hotspot-CA</b>															
Ant.1	State3	QPSK	Top Edge	10	40620 +40818	2593 +2612.8	1+1	High +Low	-0.02	0.674	21.42	22.75	1.358	0.915	/
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-CA</b>															
Ant.1	State1&3	QPSK	Top Edge	0	40620 +40818	2593 +2612.8	1+1	High +Low	0.03	1.910	21.42	22.75	1.358	2.594	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

### 11.20 5G n5 (25Hz Bandwidth)

Antenna	Power Reduction	Mode	Information	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	1g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>																
Ant.1	State2&4	DFT-s-OFDM BPSK	SA	Left Cheek	0	167300	836.5	1	1	-0.15	0.356	20.51	21.95	1.393	0.496	/
	State2&4			Left Tilt	0	167300	836.5	1	1	-0.14	0.380	20.51	21.95	1.393	0.529	/
	State2&4			Right Cheek	0	167300	836.5	1	1	0.00	0.508	20.51	21.95	1.393	<b>0.708</b>	57#
	State2&4			Right Tilt	0	167300	836.5	1	1	-0.02	0.491	20.51	21.95	1.393	0.684	/
	State2&4			Left Cheek	0	167300	836.5	64	35	-0.07	0.399	20.49	21.95	1.400	0.559	/
	State2&4			Left Tilt	0	167300	836.5	64	35	-0.08	0.412	20.49	21.95	1.400	0.577	/
	State2&4			Right Cheek	0	167300	836.5	64	35	0.04	0.499	20.49	21.95	1.400	0.699	/
	State2&4			Right Tilt	0	167300	836.5	64	35	0.13	0.442	20.49	21.95	1.400	0.619	/
Ant.0	State2&4	DFT-s-OFDM BPSK	SA	Left Cheek	0	167300	836.5	1	67	0.02	0.091	22.88	24.20	1.355	0.123	/
	State2&4			Left Tilt	0	167300	836.5	1	67	-0.08	0.230	22.88	24.20	1.355	0.312	/
	State2&4			Right Cheek	0	167300	836.5	1	67	-0.06	0.064	22.88	24.20	1.355	0.087	/
	State2&4			Right Tilt	0	167300	836.5	1	67	0.05	0.021	22.88	24.20	1.355	0.028	/
	State2&4			Left Cheek	0	167300	836.5	64	35	0.13	0.088	22.93	24.20	1.340	0.118	/
	State2&4			Left Tilt	0	167300	836.5	64	35	-0.14	0.020	22.93	24.20	1.340	0.027	/
	State2&4			Right Cheek	0	167300	836.5	64	35	-0.15	0.065	22.93	24.20	1.340	0.087	/
	State2&4			Right Tilt	0	167300	836.5	64	35	0.02	0.019	22.93	24.20	1.340	0.025	/
<b>Body-worn</b>																
Ant.1	State1&3	DFT-s-OFDM BPSK	SA	Front Side	15	167300	836.5	1	67	-0.04	0.081	22.45	24.20	1.496	0.121	/
	State1&3			Back Side	15	167300	836.5	1	67	0.00	0.117	22.45	24.20	1.496	<b>0.175</b>	58#
	State1&3			Front Side	15	167300	836.5	64	35	-0.01	0.074	22.46	24.20	1.493	0.110	/
	State1&3			Back Side	15	167300	836.5	64	35	0.01	0.102	22.46	24.20	1.493	0.152	/
Ant.0	State1&3	DFT-s-OFDM BPSK	SA	Front Side	15	167300	836.5	1	67	0.03	0.049	22.88	24.20	1.355	0.066	/
	State1&3			Back Side	15	167300	836.5	1	67	0.00	0.092	22.88	24.20	1.355	0.125	/
	State1&3			Front Side	15	167300	836.5	64	35	-0.06	0.045	22.93	24.20	1.340	0.060	/
	State1&3			Back Side	15	167300	836.5	64	35	-0.08	0.097	22.93	24.20	1.340	0.130	/
<b>Hotspot</b>																
Ant.1	State3	DFT-s-OFDM BPSK	SA	Front Side	10	167300	836.5	1	1	0.12	0.144	22.45	24.20	1.496	0.215	/
	State3			Back Side	10	167300	836.5	1	1	-0.01	0.234	22.45	24.20	1.496	<b>0.350</b>	59#
	State3			Left Edge	10	167300	836.5	1	1	0.12	0.078	22.45	24.20	1.496	0.117	/
	State3			Right Edge	10	167300	836.5	1	1	-0.15	0.106	22.45	24.20	1.496	0.159	/
	State3			Top Edge	10	167300	836.5	1	1	0.12	0.195	22.45	24.20	1.496	0.292	/
	State3			Front Side	10	167300	836.5	50	0	-0.13	0.132	22.46	24.20	1.493	0.197	/
	State3			Back Side	10	167300	836.5	50	0	-0.11	0.197	22.46	24.20	1.493	0.294	/
	State3			Left Edge	10	167300	836.5	50	0	-0.03	0.072	22.46	24.20	1.493	0.107	/
	State3			Right Edge	10	167300	836.5	50	0	0.13	0.080	22.46	24.20	1.493	0.119	/
	State3			Top Edge	10	167300	836.5	50	0	0.00	0.174	22.46	24.20	1.493	0.260	/

Ant.0	State3	DFT-s-OFDM BPSK	SA	Front Side	10	167300	836.5	1	1	0.04	0.078	22.88	24.20	1.355	0.106	/
	State3			Back Side	10	167300	836.5	1	1	0.12	0.177	22.88	24.20	1.355	0.240	/
	State3			Left Edge	10	167300	836.5	1	1	0.02	0.000	22.88	24.20	1.355	0.000	/
	State3			Right Edge	10	167300	836.5	1	1	-0.13	0.082	22.88	24.20	1.355	0.111	/
	State3			Bottom Edge	10	167300	836.5	1	1	-0.01	0.132	22.88	24.20	1.355	0.179	/
	State3			Front Side	10	167300	836.5	50	0	0.08	0.073	22.93	24.20	1.340	0.098	/
	State3			Back Side	10	167300	836.5	50	0	0.13	0.203	22.93	24.20	1.340	0.272	/
	State3			Left Edge	10	167300	836.5	50	0	-0.05	0.000	22.93	24.20	1.340	0.000	/
	State3			Right Edge	10	167300	836.5	50	0	0.04	0.072	22.93	24.20	1.340	0.096	/
	State3			Bottom Edge	10	167300	836.5	50	0	-0.01	0.125	22.93	24.20	1.340	0.168	/

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

### 11.21 5G n7 (50MHz Bandwidth)

Antenna	Power Reduction	Mode	Information	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	1g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>																
Ant.1	State2&4	DFT-s-BPSK	SA	Left Cheek	0	507000	2535	1	1	-0.15	0.196	16.83	17.95	1.294	0.254	/
	State2&4			Left Tilt	0	507000	2535	1	1	0.10	0.311	16.83	17.95	1.294	0.402	/
	State2&4			Right Cheek	0	507000	2535	1	1	-0.05	0.388	16.83	17.95	1.294	0.502	/
	State2&4			Right Tilt	0	507000	2535	1	1	0.00	0.594	16.83	17.95	1.294	0.769	/
	State2&4	OFDM		Left Cheek	0	507000	2535	135	0	-0.15	0.153	16.94	17.95	1.262	0.193	/
	State2&4			Left Tilt	0	507000	2535	135	0	0.10	0.205	16.94	17.95	1.262	0.259	/
	State2&4			Right Cheek	0	507000	2535	135	0	-0.06	0.349	16.94	17.95	1.262	0.440	/
	State2&4			Right Tilt	0	507000	2535	135	0	-0.08	0.556	16.94	17.95	1.262	0.702	/
Ant.2	State2&4	DFT-s-BPSK	SA	Left Cheek	0	505000	2525	1	1	-0.08	0.182	21.58	23.20	1.452	0.264	/
	State2&4			Left Tilt	0	505000	2525	1	1	0.11	0.184	21.58	23.20	1.452	0.267	/
	State2&4			Right Cheek	0	505000	2525	1	1	0.06	0.540	21.58	23.20	1.452	<b>0.784</b>	60#
	State2&4			Right Tilt	0	505000	2525	1	1	0.15	0.215	21.58	23.20	1.452	0.312	/
	State2&4	OFDM		Left Cheek	0	505000	2525	135	0	-0.11	0.187	21.38	23.20	1.521	0.284	/
	State2&4			Left Tilt	0	505000	2525	135	0	-0.15	0.149	21.38	23.20	1.521	0.227	/
	State2&4			Right Cheek	0	505000	2525	135	0	-0.15	0.501	21.38	23.20	1.521	0.762	/
	State2&4			Right Tilt	0	505000	2525	135	0	-0.04	0.205	21.38	23.20	1.521	0.312	/
Ant.0	State2&4	DFT-s-BPSK	SA	Left Cheek	0	507000	2535	1	1	-0.13	0.189	23.15	23.70	1.135	0.215	/
	State2&4			Left Tilt	0	507000	2535	1	1	-0.10	0.124	23.15	23.70	1.135	0.141	/
	State2&4			Right Cheek	0	507000	2535	1	1	-0.02	0.320	23.15	23.70	1.135	0.363	/
	State2&4			Right Tilt	0	507000	2535	1	1	0.12	0.122	23.15	23.70	1.135	0.138	/
	State2&4	OFDM		Left Cheek	0	507000	2535	135	69	0.00	0.186	23.06	23.70	1.159	0.216	/
	State2&4			Left Tilt	0	507000	2535	135	69	0.03	0.126	23.06	23.70	1.159	0.146	/
	State2&4			Right Cheek	0	507000	2535	135	69	0.12	0.304	23.06	23.70	1.159	0.352	/
	State2&4			Right Tilt	0	507000	2535	135	69	0.09	0.116	23.06	23.70	1.159	0.134	/
<b>Body-worn</b>																
Ant.1	State1&3	DFT-s-BPSK	SA	Front Side	15	507000	2535	1	1	-0.09	0.057	18.93	19.70	1.194	0.068	/
	State1&3			Back Side	15	507000	2535	1	1	-0.08	0.128	18.93	19.70	1.194	0.153	/
	State1&3	OFDM		Front Side	15	507000	2535	135	138	-0.07	0.055	18.98	19.70	1.180	0.065	/
	State1&3			Back Side	15	507000	2535	135	138	-0.11	0.123	18.98	19.70	1.180	0.145	/
Ant.2	State1&3	DFT-s-BPSK	SA	Front Side	15	507000	2535	1	1	0.00	0.035	18.51	19.95	1.393	0.049	/
	State1&3			Back Side	15	507000	2535	1	1	-0.04	0.064	18.51	19.95	1.393	0.089	/
	State1&3	OFDM		Front Side	15	507000	2535	135	138	-0.06	0.025	18.27	19.95	1.472	0.037	/
	State1&3			Back Side	15	507000	2535	135	138	-0.04	0.056	18.27	19.95	1.472	0.082	/
Ant.0	State1&3	DFT-s-BPSK	SA	Front Side	15	507000	2535	1	1	-0.15	0.082	21.89	22.20	1.074	0.088	/
	State1&3			Back Side	15	507000	2535	1	1	0.13	0.145	21.89	22.20	1.074	0.156	/
	State1&3			Front Side	15	507000	2535	135	0	0.02	0.077	21.76	22.20	1.107	0.085	/

	State1&3	OFDM BPSK		Back Side	15	507000	2535	135	0	-0.02	0.173	21.76	22.20	1.107	<b>0.192</b>	61#
<b>Hotspot</b>																
Ant.1	State3	DFT- s- OFDM BPSK	SA	Front Side	10	507000	2535	1	1	0.07	0.143	18.93	19.70	1.194	0.171	/
	State3			Back Side	10	507000	2535	1	1	0.09	0.369	18.93	19.70	1.194	0.441	/
	State3			Left Edge	10	507000	2535	1	1	-0.15	0.003	18.93	19.70	1.194	0.004	/
	State3			Right Edge	10	507000	2535	1	1	0.01	0.070	18.93	19.70	1.194	0.084	/
	State3			Top Edge	10	507000	2535	1	1	0.02	0.472	18.93	19.70	1.194	<b>0.564</b>	62#
	State3			Front Side	10	507000	2535	135	138	0.04	0.141	18.98	19.70	1.180	0.166	/
	State3			Back Side	10	507000	2535	135	138	-0.08	0.356	18.98	19.70	1.180	0.420	/
	State3			Left Edge	10	507000	2535	135	138	0.04	0.003	18.98	19.70	1.180	0.004	/
	State3			Right Edge	10	507000	2535	135	138	0.00	0.055	18.98	19.70	1.180	0.065	/
	State3			Top Edge	10	507000	2535	135	138	0.05	0.458	18.98	19.70	1.180	0.540	/
Ant.2	State3	DFT- s- OFDM BPSK	SA	Front Side	10	507000	2535	1	1	0.09	0.045	18.51	19.95	1.393	0.063	/
	State3			Back Side	10	507000	2535	1	1	0.00	0.102	18.51	19.95	1.393	0.142	/
	State3			Right Edge	10	507000	2535	1	1	-0.09	0.064	18.51	19.95	1.393	0.089	/
	State3			Front Side	10	507000	2535	135	138	0.14	0.039	18.27	19.95	1.472	0.057	/
	State3			Back Side	10	507000	2535	135	138	0.00	0.080	18.27	19.95	1.472	0.118	/
	State3			Right Edge	10	507000	2535	135	138	-0.02	0.054	18.27	19.95	1.472	0.079	/
Ant.0	State3	DFT- s- OFDM BPSK	SA	Front Side	10	507000	2535	1	1	0.12	0.205	21.89	22.20	1.074	0.220	/
	State3			Back Side	10	507000	2535	1	1	-0.05	0.365	21.89	22.20	1.074	0.392	/
	State3			Left Edge	10	507000	2535	1	1	0.00	0.311	21.89	22.20	1.074	0.334	/
	State3			Right Edge	10	507000	2535	1	1	0.01	0.029	21.89	22.20	1.074	0.031	/
	State3			Bottom Edge	10	507000	2535	1	1	0.02	0.336	21.89	22.20	1.074	0.361	/
	State3			Front Side	10	507000	2535	135	0	-0.01	0.194	21.76	22.20	1.107	0.215	/
	State3			Back Side	10	507000	2535	135	0	0.08	0.330	21.76	22.20	1.107	0.365	/
	State3			Left Edge	10	507000	2535	135	0	-0.10	0.280	21.76	22.20	1.107	0.310	/
	State3			Right Edge	10	507000	2535	135	0	-0.14	0.000	21.76	22.20	1.107	0.000	/
	State3			Bottom Edge	10	507000	2535	135	0	-0.11	0.325	21.76	22.20	1.107	0.360	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																



Antenna	Power Reduction	Mode	Information	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10g 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	State1&3	DFT-s-	SA	Top Edge	0	507000	2535	1	1	-0.04	1.540	18.93	19.70	1.194	<b>1.839</b>	63#
	State1&3	OFDM BPSK		Top Edge	0	507000	2535	135	138	-0.02	1.320	18.98	19.70	1.180	1.558	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																

### 11.22 5G n66 (45MHz Bandwidth)

Antenna	Power Reduction	Mode	Information	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	1g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>																
Ant.1	State2&4	DFT-s-OFDM BPSK	SA	Left Cheek	0	349000	1745	1	121	0.02	0.425	17.67	18.20	1.130	0.480	/
	State2&4			Left Tilt	0	349000	1745	1	121	-0.14	0.495	17.67	18.20	1.130	0.559	/
	State2&4			Right Cheek	0	349000	1745	1	121	-0.13	0.882	17.67	18.20	1.130	0.997	/
	State2&4			Right Tilt	0	349000	1745	1	121	0.01	1.050	17.67	18.20	1.130	<b>1.187</b>	64#
	State2&4			Left Cheek	0	349000	1745	121	60	-0.03	0.415	17.63	18.20	1.140	0.473	/
	State2&4			Left Tilt	0	349000	1745	121	60	-0.14	0.492	17.63	18.20	1.140	0.561	/
	State2&4			Right Cheek	0	349000	1745	121	60	-0.09	0.781	17.63	18.20	1.140	0.890	/
	State2&4			Right Tilt	0	349000	1745	121	60	0.01	0.948	17.63	18.20	1.140	1.081	/
	State2&4			Right Cheek	0	346500	1732.5	1	121	0.14	0.790	17.45	18.20	1.189	0.939	/
	State2&4			Right Cheek	0	351500	1757.5	1	241	0.01	0.821	17.42	18.20	1.197	0.983	/
	State2&4			Right Cheek	0	346500	1732.5	121	60	0.12	0.825	17.44	18.20	1.191	0.983	/
	State2&4			Right Cheek	0	351500	1757.5	121	0	0.03	0.763	17.53	18.20	1.167	0.890	/
	State2&4			Right Cheek	0	349000	1745	241	0	0.05	0.772	17.38	18.20	1.208	0.933	/
	State2&4			Right Tilt	0	349000	1745	121	60	0.01	0.948	17.63	18.20	1.140	1.081	/
	State2&4			Right Tilt	0	346500	1732.5	1	121	-0.06	0.985	17.45	18.20	1.189	1.171	/
	State2&4			Right Tilt	0	351500	1757.5	1	241	-0.04	0.990	17.42	18.20	1.197	1.185	/
	State2&4			Right Tilt	0	346500	1732.5	121	60	0.08	0.915	17.44	18.20	1.191	1.090	/
	State2&4			Right Tilt	0	351500	1757.5	121	0	0.00	0.926	17.53	18.20	1.167	1.081	/
	State2&4			Right Tilt	0	349000	1745	241	0	0.10	0.951	17.38	18.20	1.208	1.149	/
	Ant.2			State2&4	DFT-s-OFDM BPSK	SA	Left Cheek	0	349000	1745	1	121	-0.10	0.044	21.94	23.20
State2&4		Left Tilt	0	349000			1745	1	121	-0.05	0.043	21.94	23.20	1.337	0.057	/
State2&4		Right Cheek	0	349000			1745	1	121	-0.03	0.108	21.94	23.20	1.337	0.144	/
State2&4		Right Tilt	0	349000			1745	1	121	0.01	0.045	21.94	23.20	1.337	0.060	/
State2&4		Left Cheek	0	349000			1745	121	60	0.02	0.046	21.94	23.20	1.337	0.062	/
State2&4		Left Tilt	0	349000			1745	121	60	0.09	0.040	21.94	23.20	1.337	0.053	/
State2&4		Right Cheek	0	349000			1745	121	60	-0.06	0.101	21.94	23.20	1.337	0.135	/
State2&4		Right Tilt	0	349000			1745	121	60	0.13	0.043	21.94	23.20	1.337	0.057	/
Ant.0		State2&4	DFT-s-OFDM BPSK	SA			Left Cheek	0	349000	1745	1	121	-0.13	0.110	23.61	24.20
	State2&4	Left Tilt			0	349000	1745	1	121	0.09	0.072	23.61	24.20	1.146	0.083	/
	State2&4	Right Cheek			0	349000	1745	1	121	-0.05	0.145	23.61	24.20	1.146	0.166	/
	State2&4	Right Tilt			0	349000	1745	1	121	0.04	0.081	23.61	24.20	1.146	0.093	/
	State2&4	Left Cheek			0	349000	1745	121	60	-0.05	0.110	23.59	24.20	1.151	0.127	/
	State2&4	Left Tilt			0	349000	1745	121	60	0.14	0.067	23.59	24.20	1.151	0.077	/
	State2&4	Right Cheek			0	349000	1745	121	60	-0.05	0.134	23.59	24.20	1.151	0.154	/
	State2&4	Right Tilt			0	349000	1745	121	60	-0.12	0.075	23.59	24.20	1.151	0.086	/
<b>Body-worn</b>																

Ant.1	State1&3	DFT-	SA	Front Side	15	351500	1757.5	1	121	-0.10	0.220	21.23	21.70	1.114	0.245	/
	State1&3	s-		Back Side	15	351500	1757.5	1	121	0.09	0.290	21.23	21.70	1.114	0.323	/
	State1&3	OFDM		Front Side	15	351500	1757.5	121	0	-0.03	0.196	21.14	21.70	1.138	0.223	/
	State1&3	BPSK		Back Side	15	351500	1757.5	121	0	0.03	0.266	21.14	21.70	1.138	0.303	/
Ant.2	State1&3	DFT-	SA	Front Side	15	349000	1745	1	121	0.13	0.010	21.94	23.20	1.337	0.013	/
	State1&3	s-		Back Side	15	349000	1745	1	121	-0.03	0.023	21.94	23.20	1.337	0.031	/
	State1&3	OFDM		Front Side	15	349000	1745	121	60	-0.11	0.010	21.94	23.20	1.337	0.013	/
	State1&3	BPSK		Back Side	15	349000	1745	121	60	-0.01	0.022	21.94	23.20	1.337	0.029	/
Ant.0	State1&3	DFT-	SA	Front Side	15	349000	1745	1	121	0.12	0.176	22.57	23.20	1.156	0.203	/
	State1&3	s-		Back Side	15	349000	1745	1	121	-0.02	0.340	22.57	23.20	1.156	<b>0.393</b>	65#
	State1&3	OFDM		Front Side	15	349000	1745	121	60	-0.10	0.161	22.59	23.20	1.151	0.185	/
	State1&3	BPSK		Back Side	15	349000	1745	121	60	0.03	0.269	22.59	23.20	1.151	0.310	/
<b>Hotspot</b>																
Ant.1	State3	DFT- s- OFDM BPSK	SA	Front Side	10	351500	1757.5	1	121	-0.15	0.429	21.23	21.70	1.114	0.478	/
	State3			Back Side	10	351500	1757.5	1	121	0.00	0.548	21.23	21.70	1.114	0.610	/
	State3			Left Edge	10	351500	1757.5	1	121	-0.06	0.051	21.23	21.70	1.114	0.057	/
	State3			Right Edge	10	351500	1757.5	1	121	-0.04	0.103	21.23	21.70	1.114	0.115	/
	State3			Top Edge	10	351500	1757.5	1	121	0.01	0.859	21.23	21.70	1.114	<b>0.957</b>	66#
	State3			Front Side	10	351500	1757.5	121	0	0.11	0.405	21.14	21.70	1.138	0.461	/
	State3			Back Side	10	351500	1757.5	121	0	-0.15	0.568	21.14	21.70	1.138	0.646	/
	State3			Left Edge	10	351500	1757.5	121	0	-0.02	0.046	21.14	21.70	1.138	0.052	/
	State3			Right Edge	10	351500	1757.5	121	0	-0.06	0.095	21.14	21.70	1.138	0.108	/
	State3			Top Edge	10	351500	1757.5	121	0	0.11	0.793	21.14	21.70	1.138	0.902	/
	State3			Top Edge	10	346500	1732.5	1	121	0.15	0.802	20.98	21.70	1.180	0.946	/
	State3			Top Edge	10	349000	1745	1	121	-0.13	0.798	21.02	21.70	1.169	0.933	/
	State3			Top Edge	10	346500	1732.5	121	60	-0.12	0.765	21.01	21.70	1.172	0.897	/
	State3			Top Edge	10	349000	1745	121	0	0.12	0.755	20.94	21.70	1.191	0.899	/
State3	Top Edge	10	351500	1757.5	241	0	0.11	0.768	21.01	21.70	1.172	0.900	/			
Ant.2	State3	DFT- s- OFDM BPSK	SA	Front Side	10	349000	1745	1	121	-0.11	0.021	21.94	23.20	1.337	0.028	/
	State3			Back Side	10	349000	1745	1	121	0.09	0.050	21.94	23.20	1.337	0.067	/
	State3			Right Edge	10	349000	1745	1	121	-0.12	0.066	21.94	23.20	1.337	0.088	/
	State3			Front Side	10	349000	1745	121	60	0.09	0.021	21.94	23.20	1.337	0.028	/
	State3			Back Side	10	349000	1745	121	60	-0.05	0.055	21.94	23.20	1.337	0.074	/
	State3			Right Edge	10	349000	1745	121	60	0.02	0.057	21.94	23.20	1.337	0.076	/
Ant.0	State3	DFT- s- OFDM BPSK	SA	Front Side	10	351500	1757.5	1	121	-0.07	0.335	22.57	23.20	1.156	0.387	/
	State3			Back Side	10	351500	1757.5	1	121	0.00	0.596	22.57	23.20	1.156	0.689	/
	State3			Left Edge	10	351500	1757.5	1	121	0.08	0.217	22.57	23.20	1.156	0.251	/
	State3			Right Edge	10	351500	1757.5	1	121	-0.07	0.045	22.57	23.20	1.156	0.052	/
	State3			Bottom Edge	10	351500	1757.5	1	121	0.05	0.564	22.57	23.20	1.156	0.652	/
	State3			Front Side	10	351500	1757.5	121	60	-0.10	0.295	22.59	23.20	1.151	0.340	/
	State3			Back Side	10	351500	1757.5	121	60	0.11	0.577	22.59	23.20	1.151	0.664	/
	State3			Left Edge	10	351500	1757.5	121	60	0.03	0.186	22.59	23.20	1.151	0.214	/
	State3			Right Edge	10	351500	1757.5	121	60	0.07	0.054	22.59	23.20	1.151	0.062	/

	State3			Bottom Edge	10	351500	1757.5	121	60	-0.05	0.524	22.59	23.20	1.151	0.603	/
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Note: Refer to ANNEX C for the detailed test data for each test configuration.

Antenna	Power Reduction	Mode	Information	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
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**Specific**

Ant.1	State1&3	DFT-s-	SA	Top Edge	0	351500	1757.5	1	121	-0.01	1.780	21.23	21.70	1.114	<b>1.983</b>	67#
	State1&3	OFDM BPSK		Top Edge	0	351500	1757.5	121	0	0.02	1.610	21.14	21.70	1.138	1.832	/

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

### 11.23 5G n38 (40MHz Bandwidth)

Antenna	Power Reduction	Mode	Information	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	1g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>																
Ant.1	State2&4	DFT-s-OFDM BPSK	SA	Left Cheek	0	519000	2595	1	104	-0.08	0.411	18.68	19.20	1.127	0.463	/
	State2&4			Left Tilt	0	519000	2595	1	104	-0.06	0.545	18.68	19.20	1.127	0.614	/
	State2&4			Right Cheek	0	519000	2595	1	104	0.01	0.690	18.68	19.20	1.127	0.778	/
	State2&4			Right Tilt	0	519000	2595	1	104	0.01	1.050	18.68	19.20	1.127	<b>1.183</b>	68#
	State2&4			Left Cheek	0	519000	2595	50	28	0.14	0.339	18.52	19.20	1.169	0.396	/
	State2&4			Left Tilt	0	519000	2595	50	28	0.00	0.458	18.52	19.20	1.169	0.535	/
	State2&4			Right Cheek	0	519000	2595	50	28	0.03	0.603	18.52	19.20	1.169	0.705	/
	State2&4			Right Tilt	0	519000	2595	50	28	0.04	0.894	18.52	19.20	1.169	1.045	/
	State2&4			Right Tilt	0	518000	2590	1	104	0.12	0.985	18.53	19.20	1.167	1.149	/
	State2&4			Right Tilt	0	520000	2600	1	53	0.14	0.965	18.57	19.20	1.156	1.116	/
	State2&4			Right Tilt	0	518000	2590	50	0	-0.13	0.910	18.15	19.20	1.274	1.159	/
	State2&4			Right Tilt	0	520000	2600	50	56	0.13	0.880	18.25	19.20	1.245	1.096	/
	State2&4			Right Tilt	0	519000	2595	100	0	0.05	0.890	18.19	19.20	1.262	1.123	/
	Ant.2			State2&4	DFT-s-OFDM BPSK	SA	Left Cheek	0	519000	2595	1	1	-0.07	0.120	21.34	22.20
State2&4		Left Tilt	0	519000			2595	1	1	0.03	0.049	21.34	22.20	1.219	0.060	/
State2&4		Right Cheek	0	519000			2595	1	1	0.02	0.373	21.34	22.20	1.219	0.455	/
State2&4		Right Tilt	0	519000			2595	1	1	0.02	0.112	21.34	22.20	1.219	0.137	/
State2&4		Left Cheek	0	519000			2595	50	0	0.08	0.100	21.19	22.20	1.262	0.126	/
State2&4		Left Tilt	0	519000			2595	50	0	-0.05	0.045	21.19	22.20	1.262	0.057	/
State2&4		Right Cheek	0	519000			2595	50	0	0.05	0.317	21.19	22.20	1.262	0.400	/
State2&4		Right Tilt	0	519000			2595	50	0	-0.04	0.095	21.19	22.20	1.262	0.120	/
Ant.0	State2&4	DFT-s-OFDM BPSK	SA	Left Cheek	0	519000	2595	1	104	-0.11	0.173	23.95	24.20	1.059	0.183	/
	State2&4			Left Tilt	0	519000	2595	1	104	0.14	0.120	23.95	24.20	1.059	0.127	/
	State2&4			Right Cheek	0	519000	2595	1	104	0.10	0.369	23.95	24.20	1.059	0.391	/
	State2&4			Right Tilt	0	519000	2595	1	104	-0.10	0.135	23.95	24.20	1.059	0.143	/
	State2&4			Left Cheek	0	519000	2595	50	28	-0.07	0.149	23.80	24.20	1.096	0.163	/
	State2&4			Left Tilt	0	519000	2595	50	28	0.13	0.114	23.80	24.20	1.096	0.125	/
	State2&4			Right Cheek	0	519000	2595	50	28	-0.10	0.309	23.80	24.20	1.096	0.339	/
	State2&4			Right Tilt	0	519000	2595	50	28	-0.05	0.122	23.80	24.20	1.096	0.134	/
<b>Body-worn</b>																
Ant.1	State1&3	DFT-s-OFDM BPSK	SA	Front Side	15	519000	2595	1	104	0.07	0.090	19.55	20.20	1.161	0.104	/
	State1&3			Back Side	15	519000	2595	1	104	0.00	0.258	19.55	20.20	1.161	<b>0.300</b>	69#
	State1&3			Front Side	15	519000	2595	50	28	-0.06	0.078	19.47	20.20	1.183	0.092	/
	State1&3			Back Side	15	519000	2595	50	28	0.14	0.191	19.47	20.20	1.183	0.226	/
Ant.2	State1&3	DFT-s-	SA	Front Side	15	520000	2600	1	104	-0.08	0.042	19.23	20.20	1.250	0.053	/
	State1&3			Back Side	15	520000	2600	1	104	-0.02	0.091	19.23	20.20	1.250	0.114	/

	State1&3	OFDM		Front Side	15	520000	2600	50	0	0.03	0.026	19.07	20.20	1.297	0.034	/
	State1&3			BPSK	Back Side	15	520000	2600	50	0	-0.06	0.059	19.07	20.20	1.297	0.077
Ant.0	State1&3	DFT-	SA	Front Side	15	519000	2595	1	104	-0.12	0.137	22.36	22.95	1.146	0.157	/
	State1&3			s-	Back Side	15	519000	2595	1	104	0.08	0.208	22.36	22.95	1.146	0.238
	State1&3	OFDM		Front Side	15	519000	2595	50	28	0.13	0.118	22.30	22.95	1.161	0.137	/
	State1&3			BPSK	Back Side	15	519000	2595	50	28	0.14	0.187	22.30	22.95	1.161	0.217
<b>Hotspot</b>																
Ant.1	State3	DFT- s- OFDM BPSK	SA	Front Side	10	519000	2595	1	104	0.14	0.189	19.55	20.20	1.161	0.219	/
	State3			Back Side	10	519000	2595	1	104	-0.02	0.462	19.55	20.20	1.161	0.536	/
	State3			Left Edge	10	519000	2595	1	104	-0.15	0.000	19.55	20.20	1.161	0.000	/
	State3			Right Edge	10	519000	2595	1	104	-0.14	0.113	19.55	20.20	1.161	0.131	/
	State3			Top Edge	10	519000	2595	1	104	0.00	0.742	19.55	20.20	1.161	<b>0.861</b>	70#
	State3			Front Side	10	519000	2595	50	28	0.12	0.172	19.47	20.20	1.183	0.203	/
	State3			Back Side	10	519000	2595	50	28	-0.06	0.438	19.47	20.20	1.183	0.518	/
	State3			Left Edge	10	519000	2595	50	28	-0.02	0.000	19.47	20.20	1.183	0.000	/
	State3			Right Edge	10	519000	2595	50	28	-0.06	0.108	19.47	20.20	1.183	0.128	/
	State3			Top Edge	10	519000	2595	50	28	-0.04	0.621	19.47	20.20	1.183	0.735	/
	State3			Top Edge	10	518000	2590	1	104	-0.01	0.702	19.50	20.20	1.175	0.825	/
	State3			Top Edge	10	520000	2600	1	53	0.03	0.698	19.48	20.20	1.180	0.824	/
	State3			Top Edge	10	518000	2590	50	28	-0.06	0.602	19.12	20.20	1.282	0.772	/
	State3			Top Edge	10	520000	2600	50	56	-0.14	0.587	19.30	20.20	1.230	0.722	/
State3	Top Edge	10	519000	2595	100	0	0.13	0.651	19.20	20.20	1.259	0.820	/			
Ant.2	State3	DFT- s- OFDM BPSK	SA	Front Side	10	520000	2600	1	104	-0.13	0.080	19.23	20.20	1.250	0.100	/
	State3			Back Side	10	520000	2600	1	104	-0.09	0.210	19.23	20.20	1.250	0.263	/
	State3			Right Edge	10	520000	2600	1	104	-0.11	0.174	19.23	20.20	1.250	0.218	/
	State3			Front Side	10	520000	2600	50	0	0.00	0.051	19.07	20.20	1.297	0.066	/
	State3			Back Side	10	520000	2600	50	0	-0.13	0.143	19.07	20.20	1.297	0.185	/
	State3			Right Edge	10	520000	2600	50	0	-0.11	0.150	19.07	20.20	1.297	0.195	/
Ant.0	State3	DFT- s- OFDM BPSK	SA	Front Side	10	519000	2595	1	104	-0.04	0.213	22.36	22.95	1.146	0.244	/
	State3			Back Side	10	519000	2595	1	104	0.02	0.391	22.36	22.95	1.146	0.448	/
	State3			Left Edge	10	519000	2595	1	104	0.10	0.251	22.36	22.95	1.146	0.288	/
	State3			Right Edge	10	519000	2595	1	104	0.05	0.004	22.36	22.95	1.146	0.005	/
	State3			Bottom Edge	10	519000	2595	1	104	-0.05	0.389	22.36	22.95	1.146	0.446	/
	State3			Front Side	10	519000	2595	50	28	0.00	0.202	22.30	22.95	1.161	0.235	/
	State3			Back Side	10	519000	2595	50	28	-0.12	0.356	22.30	22.95	1.161	0.413	/
	State3			Left Edge	10	519000	2595	50	28	0.13	0.206	22.30	22.95	1.161	0.239	/
	State3			Right Edge	10	519000	2595	50	28	-0.01	0.005	22.30	22.95	1.161	0.006	/
	State3			Bottom Edge	10	519000	2595	50	28	0.11	0.345	22.30	22.95	1.161	0.401	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																

Antenna	Power Reduction	Mode	Information	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10g 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	State1&3	DFT-s-OFDM BPSK	SA	Back Side	0	519000	2595	1	104	0.13	1.120	19.55	20.20	1.161	1.300	/
	State1&3			Top Edge	0	519000	2595	1	104	0.04	1.890	19.55	20.20	1.161	<b>2.194</b>	71#
	State1&3			Back Side	0	519000	2595	50	28	0.12	1.080	19.47	20.20	1.183	1.278	/
	State1&3			Top Edge	0	519000	2595	50	28	0.10	1.680	19.47	20.20	1.183	1.987	/
	State1&3			Top Edge	0	518000	2590	1	104	0.15	1.750	19.50	20.20	1.175	2.056	/
	State1&3			Top Edge	0	520000	2600	1	53	0.05	1.680	19.48	20.20	1.180	1.982	/
	State1&3			Top Edge	0	518000	2590	50	28	0.08	1.560	19.12	20.20	1.282	2.000	/
	State1&3			Top Edge	0	520000	2600	50	56	0.09	1.580	19.30	20.20	1.230	1.943	/
	State1&3			Top Edge	0	519000	2595	100	0	-0.01	1.640	19.20	20.20	1.259	2.065	/
	Note: Refer to ANNEX C for the detailed test data for each test configuration.															

### 11.24 5G n41 (100MHz Bandwidth)

Antenna	Power Reduction	Mode	Information	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	1g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>																
Ant.1	State2&4	DFT-s-OFDM BPSK	SA	Left Cheek	0	518598	2592.99	1	1	-0.15	0.264	16.72	17.95	1.327	0.350	/
	State2&4			Left Tilt	0	518598	2592.99	1	1	-0.15	0.344	16.72	17.95	1.327	0.456	/
	State2&4			Right Cheek	0	518598	2592.99	1	1	0.08	0.358	16.72	17.95	1.327	0.475	/
	State2&4			Right Tilt	0	518598	2592.99	1	1	0.02	0.722	16.72	17.95	1.327	<b>0.958</b>	<b>72#</b>
	State2&4			Left Cheek	0	528000	2640	135	69	0.15	0.244	16.98	17.95	1.250	0.305	/
	State2&4			Left Tilt	0	528000	2640	135	69	0.10	0.315	16.98	17.95	1.250	0.394	/
	State2&4			Right Cheek	0	528000	2640	135	69	-0.06	0.407	16.98	17.95	1.250	0.509	/
	State2&4			Right Tilt	0	528000	2640	135	69	0.00	0.618	16.98	17.95	1.250	0.773	/
	State2&4			Right Tilt	0	509202	2546.01	1	1	-0.09	0.519	16.66	17.95	1.346	0.699	/
	State2&4			Right Tilt	0	513900	2569.5	1	137	-0.10	0.542	16.55	17.95	1.380	0.748	/
	State2&4			Right Tilt	0	523302	2616.51	1	271	-0.01	0.593	16.67	17.95	1.343	0.796	/
	State2&4			Right Tilt	0	528000	2640	1	271	-0.03	0.597	16.67	17.95	1.343	0.802	/
	State2&4			Right Tilt	0	509202	2546.01	135	138	-0.03	0.531	16.86	17.95	1.285	0.682	/
	State2&4			Right Tilt	0	513900	2569.5	135	0	0.14	0.566	16.83	17.95	1.294	0.732	/
	State2&4			Right Tilt	0	518598	2592.99	135	69	-0.02	0.578	16.89	17.95	1.276	0.738	/
	State2&4			Right Tilt	0	523302	2616.51	135	69	0.10	0.569	16.82	17.95	1.297	0.738	/
State2&4	Right Tilt	0	518598	2592.99	270	0	0.10	0.615	16.71	17.95	1.330	0.818	/			
Ant.2	State2&4	DFT-s-OFDM BPSK	SA	Left Cheek	0	509202	2546.01	1	1	0.14	0.109	22.02	22.70	1.169	0.127	/
	State2&4			Left Tilt	0	509202	2546.01	1	1	-0.11	0.055	22.02	22.70	1.169	0.064	/
	State2&4			Right Cheek	0	509202	2546.01	1	1	-0.02	0.316	22.02	22.70	1.169	0.369	/
	State2&4			Right Tilt	0	509202	2546.01	1	1	0.06	0.124	22.02	22.70	1.169	0.145	/
	State2&4			Left Cheek	0	509202	2546.01	135	0	-0.14	0.071	21.52	22.70	1.312	0.093	/
	State2&4			Left Tilt	0	509202	2546.01	135	0	0.14	0.032	21.52	22.70	1.312	0.042	/
	State2&4			Right Cheek	0	509202	2546.01	135	0	0.07	0.264	21.52	22.70	1.312	0.346	/
	State2&4			Right Tilt	0	509202	2546.01	135	0	0.13	0.075	21.52	22.70	1.312	0.098	/
Ant.0	State2&4	DFT-s-OFDM BPSK	SA	Left Cheek	0	518598	2592.99	1	271	0.01	0.195	23.68	24.20	1.127	0.220	/
	State2&4			Left Tilt	0	518598	2592.99	1	271	0.08	0.162	23.68	24.20	1.127	0.183	/
	State2&4			Right Cheek	0	518598	2592.99	1	271	-0.10	0.355	23.68	24.20	1.127	0.400	/
	State2&4			Right Tilt	0	518598	2592.99	1	271	0.12	0.158	23.68	24.20	1.127	0.178	/
	State2&4			Left Cheek	0	518598	2592.99	135	69	0.06	0.166	23.69	24.20	1.125	0.187	/
	State2&4			Left Tilt	0	518598	2592.99	135	69	0.01	0.137	23.69	24.20	1.125	0.154	/
	State2&4			Right Cheek	0	518598	2592.99	135	69	-0.12	0.308	23.69	24.20	1.125	0.347	/
	State2&4			Right Tilt	0	518598	2592.99	135	69	0.07	0.138	23.69	24.20	1.125	0.155	/
<b>Body-worn</b>																
Ant.1	State1&3	DFT-s-	SA	Front Side	15	528000	2640	1	271	-0.07	0.082	18.88	19.95	1.279	0.105	/
	State1&3			Back Side	15	528000	2640	1	271	0.02	0.219	18.88	19.95	1.279	<b>0.280</b>	<b>73#</b>



	State1&3	OFDM		Front Side	15	528000	2640	135	138	0.02	0.080	19.08	19.95	1.222	0.098	/
	State1&3	BPSK		Back Side	15	528000	2640	135	138	-0.15	0.188	19.08	19.95	1.222	0.230	/
Ant.2	State1&3	DFT-	SA	Front Side	15	513900	2569.5	1	1	0.10	0.023	18.82	19.45	1.156	0.027	/
	State1&3	s-		Back Side	15	513900	2569.5	1	1	-0.15	0.057	18.82	19.45	1.156	0.066	/
	State1&3	OFDM		Front Side	15	513900	2569.5	135	0	0.08	0.031	18.53	19.45	1.236	0.038	/
	State1&3	BPSK		Back Side	15	513900	2569.5	135	0	-0.03	0.068	18.53	19.45	1.236	0.084	/
Ant.0	State1&3	DFT-	SA	Front Side	15	523302	2616.51	1	271	0.00	0.101	21.16	21.95	1.199	0.121	/
	State1&3	s-		Back Side	15	523302	2616.51	1	271	-0.03	0.164	21.16	21.95	1.199	0.197	/
	State1&3	OFDM		Front Side	15	523302	2616.51	135	69	0.09	0.089	21.37	21.95	1.143	0.102	/
	State1&3	BPSK		Back Side	15	523302	2616.51	135	69	0.07	0.145	21.37	21.95	1.143	0.166	/
<b>Hotspot</b>																
Ant.1	State3	DFT- s- OFDM BPSK	SA	Front Side	10	528000	2640	1	271	-0.12	0.182	18.88	19.95	1.279	0.233	/
	State3			Back Side	10	528000	2640	1	271	-0.14	0.470	18.88	19.95	1.279	0.601	/
	State3			Left Edge	10	528000	2640	1	271	-0.11	0.000	18.88	19.95	1.279	0.000	/
	State3			Right Edge	10	528000	2640	1	271	-0.11	0.091	18.88	19.95	1.279	0.116	/
	State3			Top Edge	10	528000	2640	1	271	0.02	0.614	18.88	19.95	1.279	<b>0.785</b>	<b>74#</b>
	State3			Front Side	10	528000	2640	135	138	-0.06	0.160	19.08	19.95	1.222	0.196	/
	State3			Back Side	10	528000	2640	135	138	-0.03	0.417	19.08	19.95	1.222	0.510	/
	State3			Left Edge	10	528000	2640	135	138	-0.03	0.000	19.08	19.95	1.222	0.000	/
	State3			Right Edge	10	528000	2640	135	138	-0.08	0.083	19.08	19.95	1.222	0.101	/
	State3			Top Edge	10	528000	2640	135	138	-0.06	0.586	19.08	19.95	1.222	0.716	/
Ant.2	State3	DFT- s- OFDM BPSK	SA	Front Side	10	513900	2569.5	1	1	-0.01	0.071	18.82	19.45	1.156	0.082	/
	State3			Back Side	10	513900	2569.5	1	1	0.05	0.204	18.82	19.45	1.156	0.236	/
	State3			Right Edge	10	513900	2569.5	1	1	-0.13	0.145	18.82	19.45	1.156	0.168	/
	State3			Front Side	10	513900	2569.5	135	0	-0.10	0.051	18.53	19.45	1.236	0.063	/
	State3			Back Side	10	513900	2569.5	135	0	0.12	0.143	18.53	19.45	1.236	0.177	/
	State3			Right Edge	10	513900	2569.5	135	0	-0.15	0.121	18.53	19.45	1.236	0.150	/
Ant.0	State3	DFT- s- OFDM BPSK	SA	Front Side	10	523302	2616.51	1	271	0.03	0.188	21.16	21.95	1.199	0.225	/
	State3			Back Side	10	523302	2616.51	1	271	0.07	0.338	21.16	21.95	1.199	0.405	/
	State3			Left Edge	10	523302	2616.51	1	271	-0.01	0.199	21.16	21.95	1.199	0.239	/
	State3			Right Edge	10	523302	2616.51	1	271	-0.08	0.000	21.16	21.95	1.199	0.000	/
	State3			Bottom Edge	10	523302	2616.51	1	271	-0.08	0.318	21.16	21.95	1.199	0.381	/
	State3			Front Side	10	523302	2616.51	135	69	-0.03	0.164	21.37	21.95	1.143	0.187	/
	State3			Back Side	10	523302	2616.51	135	69	0.00	0.293	21.37	21.95	1.143	0.335	/
	State3			Left Edge	10	523302	2616.51	135	69	-0.10	0.188	21.37	21.95	1.143	0.215	/
	State3			Right Edge	10	523302	2616.51	135	69	-0.14	0.000	21.37	21.95	1.143	0.000	/
	State3			Bottom Edge	10	523302	2616.51	135	69	0.00	0.321	21.37	21.95	1.143	0.367	/

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

Antenna	Power Reduction	Mode	Information	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
Specific																
Ant.1	State1&3	DFT- s- OFDM BPSK	SA	Back Side	0	528000	2640	1	271	0.03	0.895	18.88	19.95	1.279	1.145	/
	State1&3			Top Edge	0	528000	2640	1	271	-0.02	1.690	18.88	19.95	1.279	<b>2.162</b>	<b>75#</b>
	State1&3			Back Side	0	528000	2640	135	138	0.09	0.854	19.08	19.95	1.222	1.044	/
	State1&3			Top Edge	0	528000	2640	135	138	0.08	1.480	19.08	19.95	1.222	1.809	/
	State1&3			Top Edge	0	509202	2546.01	1	1	-0.09	1.360	18.72	19.95	1.327	1.805	/
	State1&3			Top Edge	0	513900	2569.5	1	271	0.09	1.450	18.66	19.95	1.346	1.952	/
	State1&3			Top Edge	0	518598	2592.99	1	137	0.11	1.490	18.76	19.95	1.315	1.959	/
	State1&3			Top Edge	0	523302	2616.51	1	137	0.10	1.510	18.81	19.95	1.300	1.963	/
	State1&3			Top Edge	0	518598	2592.99	270	0	-0.13	1.450	18.86	19.95	1.285	1.863	/
	Note: Refer to ANNEX C for the detailed test data for each test configuration.															

### 11.25 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.8	Level1	802.11 b	Left Cheek	0	1	2412	-0.13	0.560	14.15	16.00	1.531	99.41	1.006	<b>0.863</b>	76#
	Level1	802.11 b	Left Tilt	0	1	2412	0.07	0.429	14.15	16.00	1.531	99.41	1.006	0.661	/
	Level1	802.11 b	Right Cheek	0	1	2412	0.11	0.235	14.15	16.00	1.531	99.41	1.006	0.362	/
	Level1	802.11 b	Right Tilt	0	1	2412	0.11	0.208	14.15	16.00	1.531	99.41	1.006	0.320	/
	Level1	802.11 b	Left Cheek	0	6	2437	-0.15	0.528	14.02	16.00	1.578	99.41	1.006	0.838	/
	Level1	802.11 b	Left Cheek	0	11	2462	-0.06	0.548	14.10	16.00	1.549	99.41	1.006	0.854	/
Ant.8	Level3	802.11 b	Left Cheek	0	1	2412	-0.08	0.390	12.70	14.50	1.514	99.41	1.006	0.594	/
	Level3	802.11 b	Left Tilt	0	1	2412	0.11	0.301	12.70	14.50	1.514	99.41	1.006	0.458	/
	Level3	802.11 b	Right Cheek	0	1	2412	-0.02	0.163	12.70	14.50	1.514	99.41	1.006	0.248	/
	Level3	802.11 b	Right Tilt	0	1	2412	0.10	0.145	12.70	14.50	1.514	99.41	1.006	0.221	/
<b>Body-Wron</b>															
Ant.8	Level5&7	802.11 b	Front Side	15	1	2412	0.11	0.047	14.15	16.00	1.531	99.41	1.006	0.072	/
	Level5&7	802.11 b	Back Side	15	1	2412	0.05	0.072	14.15	16.00	1.531	99.41	1.006	<b>0.111</b>	77#
<b>Hotspot</b>															
Ant.8	Level7	802.11 b	Front Side	10	1	2412	0.03	0.069	14.15	16.00	1.531	99.41	1.006	0.106	/
	Level7	802.11 b	Back Side	10	1	2412	0.01	0.111	14.15	16.00	1.531	99.41	1.006	<b>0.171</b>	78#
	Level7	802.11 b	Left Edge	10	1	2412	0.07	0.053	14.15	16.00	1.531	99.41	1.006	0.082	/
	Level7	802.11 b	Top Edge	10	1	2412	-0.15	0.088	14.15	16.00	1.531	99.41	1.006	0.136	/
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	Duty Cycle (%)	Scaling Factor	10 g Scaled SAR (W/kg)	Meas. No.
<b>Specific</b>															
Ant.8	Level5&7	802.11 b	Front Side	0	1	2412	0.08	0.320	14.15	16.00	1.531	99.41	1.006	0.493	/
	Level5&7	802.11 b	Back Side	0	1	2412	0.02	0.355	14.15	16.00	1.531	99.41	1.006	<b>0.547</b>	79#
	Level5&7	802.11 b	Left Edge	0	1	2412	0.06	0.198	14.15	16.00	1.531	99.41	1.006	0.305	/
	Level5&7	802.11 b	Top Edge	0	1	2412	0.06	0.183	14.15	16.00	1.531	99.41	1.006	0.282	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

### 11.26 WIFI 5GHz

Antenna	Band	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.8	5.3G	Level1&2	802.11 a	Left Cheek	0	52	5260	-0.03	0.644	14.59	16.00	1.384	98.40	1.016	0.906	/
	5.3G	Level1&2	802.11 a	Left Tilt	0	52	5260	-0.03	0.327	14.62	16.00	1.374	98.40	1.016	0.456	/
	5.3G	Level1&2	802.11 a	Right Cheek	0	52	5260	0.08	0.244	14.62	16.00	1.374	98.40	1.016	0.341	/
	5.3G	Level1&2	802.11 a	Right Tilt	0	52	5260	0.07	0.189	14.62	16.00	1.374	98.40	1.016	0.264	/
	5.3G	Level1&2	802.11 a	Left Cheek	0	60	5300	-0.15	0.671	14.59	16.00	1.384	98.40	1.016	0.944	/
	5.3G	Level1&2	802.11 a	Left Cheek	0	64	5320	-0.02	0.660	14.36	16.00	1.459	98.40	1.016	<b>0.978</b>	80#
Ant.8	5.3G	Level3&4	802.11 a	Left Cheek	0	52	5260	-0.01	0.325	11.56	13.00	1.393	98.40	1.016	0.460	/
	5.3G	Level3&4	802.11 a	Left Tilt	0	52	5260	0.04	0.161	11.56	13.00	1.393	98.40	1.016	0.228	/
	5.3G	Level3&4	802.11 a	Right Cheek	0	52	5260	0.11	0.120	11.56	13.00	1.393	98.40	1.016	0.170	/
	5.3G	Level3&4	802.11 a	Right Tilt	0	52	5260	0.11	0.093	11.56	13.00	1.393	98.40	1.016	0.132	/
Ant.8	5.6G	Level1&2&3&4	802.11ac (VHT80)	Left Cheek	0	106	5530	-0.03	0.258	11.35	13.00	1.462	86.40	1.157	<b>0.436</b>	81#
	5.6G	Level1&2&3&4	802.11ac (VHT80)	Left Tilt	0	106	5530	0.08	0.225	11.35	13.00	1.462	86.40	1.157	0.381	/
	5.6G	Level1&2&3&4	802.11ac (VHT80)	Right Cheek	0	106	5530	0.12	0.123	11.35	13.00	1.462	86.40	1.157	0.208	/
	5.6G	Level1&2&3&4	802.11ac (VHT80)	Right Tilt	0	106	5530	0.13	0.115	11.35	13.00	1.462	86.40	1.157	0.195	/
Ant.8	5.8G	Level1&2	802.11 a	Left Cheek	0	165	5825	0.09	0.468	14.02	15.50	1.406	98.40	1.016	<b>0.669</b>	82#
	5.8G	Level1&2	802.11 a	Left Tilt	0	165	5825	-0.03	0.416	14.02	15.50	1.406	98.40	1.016	0.594	/
	5.8G	Level1&2	802.11 a	Right Cheek	0	165	5825	-0.10	0.202	14.02	15.50	1.406	98.40	1.016	0.289	/
	5.8G	Level1&2	802.11 a	Right Tilt	0	165	5825	0.06	0.166	14.02	15.50	1.406	98.40	1.016	0.237	/
Ant.8	5.8G	Level3&4	802.11 a	Left Cheek	0	165	5825	0.08	0.229	11.06	12.50	1.393	98.40	1.016	0.324	/
	5.8G	Level3&4	802.11 a	Left Tilt	0	165	5825	-0.06	0.201	11.06	12.50	1.393	98.40	1.016	0.284	/
	5.8G	Level3&4	802.11 a	Right Cheek	0	165	5825	-0.10	0.095	11.06	12.50	1.393	98.40	1.016	0.134	/
	5.8G	Level3&4	802.11 a	Right Tilt	0	165	5825	-0.01	0.080	11.06	12.50	1.393	98.40	1.016	0.113	/
<b>Body-worn</b>																
Ant.8	5.2G	Level5&6	802.11 a	Front Side	15	36	5180	0.01	0.085	15.54	17.00	1.400	98.40	1.016	0.121	/
	5.2G	Level5&6	802.11 a	Back Side	15	36	5180	-0.04	0.129	15.54	17.00	1.400	98.40	1.016	<b>0.183</b>	83#
Ant.8	5.2G	Level7&8	802.11 a	Front Side	15	36	5180	-0.14	0.042	12.70	14.00	1.349	98.40	1.016	0.058	/
	5.2G	Level7&8	802.11 a	Back Side	15	36	5180	0.08	0.064	12.70	14.00	1.349	98.40	1.016	0.088	/
Ant.8	5.3G	Level5&6	802.11 a	Front Side	15	52	5260	-0.06	0.084	15.06	16.50	1.393	98.40	1.016	0.119	/
	5.3G	Level5&6	802.11 a	Back Side	15	52	5260	-0.01	0.137	15.06	16.50	1.393	98.40	1.016	<b>0.194</b>	84#
Ant.8	5.3G	Level7&8	802.11 a	Front Side	15	52	5260	-0.13	0.045	12.58	14.00	1.387	98.40	1.016	0.063	/
	5.3G	Level7&8	802.11 a	Back Side	15	52	5260	0.09	0.076	12.58	14.00	1.387	98.40	1.016	0.107	/
Ant.8	5.6G	Level5&6&7&8	802.11ac (VHT80)	Front Side	15	106	5530	-0.11	0.035	11.35	13.00	1.462	86.40	1.157	0.059	/
	5.6G	Level5&6&7&8	802.11ac (VHT80)	Back Side	15	106	5530	0.05	0.047	11.35	13.00	1.462	86.40	1.157	<b>0.080</b>	85#
Ant.8	5.8G	Level5&6	802.11 a	Front Side	15	165	5825	0.12	0.085	15.49	17.00	1.416	98.40	1.016	0.122	/
	5.8G	Level5&6	802.11 a	Back Side	15	165	5825	-0.04	0.128	15.49	17.00	1.416	98.40	1.016	<b>0.184</b>	86#
Ant.8	5.8G	Level7&8	802.11 a	Front Side	15	165	5825	0.09	0.060	14.02	15.50	1.406	98.40	1.016	0.086	/

	5.8G	Level7&8	802.11 a	Back Side	15	165	5825	-0.13	0.090	14.02	15.50	1.406	98.40	1.016	0.129	/
<b>Hotspot</b>																
Ant.8	5.2G	Level6	802.11 a	Front Side	10	36	5180	-0.09	0.151	15.54	17.00	1.400	98.40	1.016	0.215	/
	5.2G	Level6	802.11 a	Back Side	10	36	5180	0.03	0.211	15.54	17.00	1.400	98.40	1.016	0.300	/
	5.2G	Level6	802.11 a	Left Edge	10	36	5180	0.15	0.215	15.54	17.00	1.400	98.40	1.016	0.306	/
	5.2G	Level6	802.11 a	Top Edge	10	36	5180	0.04	0.256	15.54	17.00	1.400	98.40	1.016	<b>0.364</b>	87#
Ant.8	5.2G	Level7&8	802.11 a	Front Side	10	36	5180	0.03	0.077	12.70	14.00	1.349	98.40	1.016	0.106	/
	5.2G	Level7&8	802.11 a	Back Side	10	36	5180	0.04	0.105	12.70	14.00	1.349	98.40	1.016	0.144	/
	5.2G	Level7&8	802.11 a	Left Edge	10	36	5180	-0.13	0.108	12.70	14.00	1.349	98.40	1.016	0.148	/
	5.2G	Level7&8	802.11 a	Top Edge	10	36	5180	0.09	0.129	12.70	14.00	1.349	98.40	1.016	0.177	/
Ant.8	5.8G	Level6	802.11 a	Front Side	10	165	5825	-0.06	0.210	15.49	17.00	1.416	98.40	1.016	0.302	/
	5.8G	Level6	802.11 a	Back Side	10	165	5825	0.03	0.295	15.49	17.00	1.416	98.40	1.016	<b>0.424</b>	88#
	5.8G	Level6	802.11 a	Left Edge	10	165	5825	0.06	0.281	15.49	17.00	1.416	98.40	1.016	0.404	/
	5.8G	Level6	802.11 a	Top Edge	10	165	5825	0.09	0.255	15.49	17.00	1.416	98.40	1.016	0.367	/
Ant.8	5.8G	Level7&8	802.11 a	Front Side	10	165	5825	0.13	0.147	14.02	15.50	1.406	98.40	1.016	0.210	/
	5.8G	Level7&8	802.11 a	Back Side	10	165	5825	-0.12	0.206	14.02	15.50	1.406	98.40	1.016	0.294	/
	5.8G	Level7&8	802.11 a	Left Edge	10	165	5825	0.10	0.194	14.02	15.50	1.406	98.40	1.016	0.277	/
	5.8G	Level7&8	802.11 a	Top Edge	10	165	5825	-0.02	0.175	14.02	15.50	1.406	98.40	1.016	0.250	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																

Antenna	Band	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	Duty Cycle (%)	Scaling Factor	10 g Scaled SAR (W/kg)	Meas. No.
<b>Specific</b>																
Ant.8	5.3G	Level5&6	802.11 a	Front Side	0	52	5260	0.05	0.270	15.06	16.50	1.393	98.40	1.016	0.382	/
	5.3G	Level5&6	802.11 a	Back Side	0	52	5260	0.03	0.435	15.06	16.50	1.393	98.40	1.016	<b>0.616</b>	89#
	5.3G	Level5&6	802.11 a	Left Edge	0	52	5260	0.00	0.356	15.06	16.50	1.393	98.40	1.016	0.504	/
	5.3G	Level5&6	802.11 a	Top Edge	0	52	5260	0.10	0.342	15.06	16.50	1.393	98.40	1.016	0.484	/
Ant.8	5.3G	Level7&8	802.11 a	Front Side	0	52	5260	0.05	0.153	12.58	14.00	1.387	98.40	1.016	0.216	/
	5.3G	Level7&8	802.11 a	Back Side	0	52	5260	-0.05	0.248	12.58	14.00	1.387	98.40	1.016	0.349	/
	5.3G	Level7&8	802.11 a	Left Edge	0	52	5260	-0.09	0.204	12.58	14.00	1.387	98.40	1.016	0.287	/
	5.3G	Level7&8	802.11 a	Top Edge	0	52	5260	0.09	0.195	12.58	14.00	1.387	98.40	1.016	0.275	/
Ant.8	5.6G	Level5&6&7&8	802.11ac (VHT80)	Front Side	0	106	5530	-0.02	0.101	11.35	13.00	1.462	86.40	1.157	0.171	/
	5.6G	Level5&6&7&8	802.11ac (VHT80)	Back Side	0	106	5530	-0.09	0.157	11.35	13.00	1.462	86.40	1.157	<b>0.266</b>	90#
	5.6G	Level5&6&7&8	802.11ac (VHT80)	Left Edge	0	106	5530	0.15	0.135	11.35	13.00	1.462	86.40	1.157	0.228	/
	5.6G	Level5&6&7&8	802.11ac (VHT80)	Top Edge	0	106	5530	0.13	0.142	11.35	13.00	1.462	86.40	1.157	0.240	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																

### 11.27 Bluetooth

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	Duty Cycle (%)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>														
Ant.8	DH5	Left Cheek	0	78	2480	0.00	0.291	12.64	14.00	1.368	76.61	1.305	<b>0.520</b>	91#
	DH5	Left Tilt	0	78	2480	-0.03	0.226	12.64	14.00	1.368	76.61	1.305	0.403	/
	DH5	Right Cheek	0	78	2480	-0.11	0.121	12.64	14.00	1.368	76.61	1.305	0.216	/
	DH5	Right Tilt	0	78	2480	-0.05	0.110	12.64	14.00	1.368	76.61	1.305	0.196	/
<b>Body-worn</b>														
Ant.8	DH5	Front Side	15	78	2480	0.02	0.024	12.64	14.00	1.368	76.61	1.305	0.043	/
	DH5	Back Side	15	78	2480	-0.09	0.048	12.64	14.00	1.368	76.61	1.305	<b>0.086</b>	92#
<b>Hotspot</b>														
Ant.8	DH5	Front Side	10	78	2480	-0.07	0.039	12.15	14.00	1.531	76.61	1.305	0.078	/
	DH5	Back Side	10	78	2480	0.05	0.068	12.15	14.00	1.531	76.61	1.305	<b>0.136</b>	93#
	DH5	Left Edge	10	78	2480	-0.08	0.030	12.15	14.00	1.531	76.61	1.305	0.060	/
	DH5	Top Edge	10	78	2480	0.15	0.047	12.15	14.00	1.531	76.61	1.305	0.094	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	Duty Cycle (%)	Scaling Factor	10 g Scaled SAR (W/kg)	Meas. No.
<b>Specific</b>														
Ant.8	DH5	Front Side	0	78	2480	0.08	0.120	12.15	14.00	1.531	76.61	1.305	0.240	/
	DH5	Back Side	0	78	2480	0.03	0.196	12.15	14.00	1.531	76.61	1.305	<b>0.392</b>	94#
	DH5	Left Edge	0	78	2480	-0.09	0.099	12.15	14.00	1.531	76.61	1.305	0.198	/
	DH5	Top Edge	0	78	2480	-0.13	0.129	12.15	14.00	1.531	76.61	1.305	0.258	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

### 11.28 NFC SAR

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

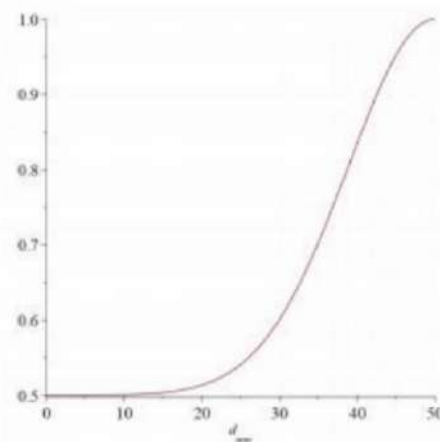
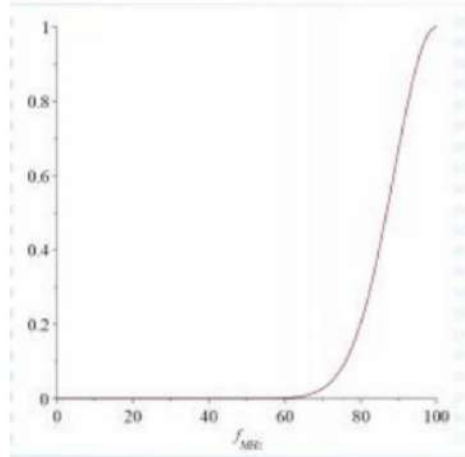
$$P_{7X}(d_{mm}, f_{MHz}) := \begin{cases} P_{6S}(d_{mm}, f_{MHz}) & f_{MHz} \leq 100 \\ P_{6to7}(d_{mm}, f_{MHz}) & 100 < f_{MHz} \leq 300 \\ P_7(d_{mm}, f_{MHz}) & 300 < f_{MHz} \end{cases}$$

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

$$S_f(f_{MHz}) \cdot P_{431a}(d_{mm}, f_{MHz}) + (1 - S_f(f_{MHz})) \cdot S_d(d_{mm}) P_{431b1}(50., 100.) \cdot \left( 1. + \log_{10} \left( \frac{100.}{f_{MHz}} \right) \right) \quad d_{mm} \leq 50 \text{ and } f_{MHz} \leq 100$$

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

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



d≤50mm			
f Max(MHz)	100	d Max(mm)	50
f MHz	13.56	d(mm)	5
Δf(MHz)	100	Δd	50
S <sub>f</sub> (f <sub>MHz</sub> )	0.000568861	S <sub>d</sub> (d <sub>mm</sub> )	0.50015177
P6s(mW)	443.1257378		
Note: SAR testing is required when the distance is 5mm and the power is greater than 443.13mW.			

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

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

- a) Measure the conducted output power (in dBm) using the detector specified (see guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
- b) Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the ERP level (see guidance on determining the applicable antenna gain)
- c) Add the appropriate maximum ground reflection factor to the ERP level (6 dB for frequencies ≤ 30 MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies > 1000 MHz).
- d) For devices with multiple antenna-ports, measure the power of each individual chain and sum the ERP of all chains in linear terms (e.g., Watts, mW).
- e) Convert the resultant ERP level to an equivalent electric field strength using the following relationship:  $E = ERP - 20\log D + 104.8$

where:

E = electric field strength in dBμV/m,

ERP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

Mode	f (MHz)	Max. E-Field strength (dBuV/m)	D (m)	Ground reflection factor (dB)	ERP (dBm)
NFC (13.56MHz)	13.56	56.88	10	6	-21.92

Note:

1. Add the appropriate maximum ground reflection factor to the ERP level (6 dB for frequencies ≤ 30 MHz).

2.  $ERP = 56.88 + 20 \cdot \log(10) - 104.8 + 6 = -21.92$  (dBm)

According to the FCC KDB 447498 D04

Estimated SAR:  $SAR_{test} = 1.6 \cdot P_{ant} / P_{th}$  [W/kg]

Estimated SAR	1.6 · Pant / Pth [W/kg]		
Pmeas.(dBm)	-21.92	Pmeas.(mW)	0.00643
Pth.(mW)	443.13		
NFC Estimated 1g SAR [W/kg]	<0.001		



## 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.

Frequency Band (MHz)	Wireless Band	RF Exposure Conditions	Test Position	Highest Measured SAR (W/kg)	Repeated SAR (Yes/No)	Repeated <sup>1st</sup> Measured SAR (W/kg)	Largest to Smallest SAR Radio
1852.4	WCDMA Band2	Head	Right Tilt	0.894	Yes	0.890	1.00
1732.4	WCDMA Band4	Head	Right Tilt	0.984	Yes	0.975	1.01
1712.4	WCDMA Band4	Specific	Back Side	2.120	Yes	2.040	1.04
1745	LTE Band4	Head	Right Tilt	0.844	Yes	0.836	1.01
2560	LTE Band7	Head	Right Tilt	0.819	Yes	0.810	1.01
782	LTE Band13	Head	Right Cheek	0.801	Yes	0.791	1.01
1745	LTE Band66	Head	Right Tilt	1.000	Yes	0.983	1.02
2610	LTE Band38	Head	Right Tilt	0.843	Yes	0.839	1.00
2610	LTE Band38	Hotspot	Top Edge	0.824	Yes	0.805	1.02
2610	LTE Band38	Specific	Top Edge	2.150	Yes	2.090	1.03
2593	LTE Band41	Head	Right Tilt	0.887	Yes	0.880	1.01
2593	LTE Band41	Specific	Top Edge	2.120	Yes	2.100	1.01
1745	NR n66	Head	Right Tilt	1.050	Yes	1.010	1.04
1757.5	NR n66	Hotspot	Top Edge	0.859	Yes	0.846	1.02
2595	NR n38	Head	Right Tilt	1.050	Yes	1.010	1.04

Note: The ratio of largest to smallest SAR for the original and first repeated measurements is < 1.20, the second repeated measurement. is not required.

## 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	WIFI 5GHz + BT	Yes	Yes	Yes	Yes
2	WWAN+WIFI 2.4GHz	Yes	Yes	Yes	Yes
3	WWAN+WIFI 5GHz	Yes	Yes	Yes	Yes
4	WWAN+BT	Yes	Yes	Yes	Yes
5	WWAN+WIFI 5GHz + BT	Yes	Yes	Yes	Yes

Note:

1. WWAN antennas can switch automatically, the standards supported by WWAN are (GSM Voice/GPRS/EDGE/WCDMA/LTE/SA(5G NR)/EN-DC(LTE + 5G NR)).
2. The maximum SAR summation is calculated based on the same configuration and test position.
3. The simultaneous transmission combinations of multiple antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations is shown in this report.

## 13.2 Sum SAR of Simultaneous Transmission

### 13.2.1 Head Simultaneous Transmission SAR Evaluation for WLAN with BT

Position	Stand alone SAR		SUM SAR
	1	2	
	5GWIFI Max.	Bluetooth	1+2
	Level2		
Left Cheek	0.978	0.520	<b>1.498</b>
Left Tilt	0.594	0.403	0.997
Right Cheek	0.341	0.216	0.557
Right Tilt	0.264	0.196	0.460

Note:

1: The highest Summed 1g SAR is 1.498 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

### 13.2.2 Body-Worn Simultaneous Transmission SAR Evaluation for WLAN with BT

Position	Stand alone SAR		SUM SAR
	1	2	
	5GWIFI Max.	Bluetooth	1+2
	Level6		
Front Side 15mm	0.122	0.043	0.165
Back Side 15mm	0.194	0.086	<b>0.280</b>

Note:

1: The highest Summed 1g SAR is 0.280 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

### 13.2.3 Hotspot Simultaneous Transmission SAR Evaluation for WLAN with BT

Position	Stand alone SAR		SUM SAR
	1	2	
	5GWIFI Max.	Bluetooth	1+2
	Level6		
Front Side 10mm	0.302	0.078	0.380
Back Side 10mm	0.424	0.136	0.560
Left Edge 10mm	0.404	0.060	0.464
Right Edge 10mm	0.000	0.000	0.000
Top Edge 10mm	0.367	0.094	0.461
Bottom Edge 10mm	0.000	0.000	0.000

Note:

1: The highest Summed 1g SAR is 0.560 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

## 13.2.4 Specific Simultaneous Transmission SAR Evaluation for WLAN with BT

Position	Stand alone SAR		SUM SAR
	1	2	
	5GWIFI Max.	Bluetooth	1+2
	Level6		
Front Side 0mm	0.382	0.240	0.622
Back Side 0mm	0.616	0.392	<b>1.008</b>
Left Edge 0mm	0.504	0.198	0.702
Right Edge 0mm	0.000	0.000	0.000
Top Edge 0mm	0.484	0.258	0.742
Bottom Edge 0mm	0.000	0.000	0.000

## Note:

1: The highest Summed 10g SAR is 1.008 W/Kg < 4.0 W/kg, so Simultaneous Transmission SAR test is not required.

## 13.2.5 Head Simultaneous Transmission SAR Evaluation for WWAN and WLAN and BT

Band	Antenna	Position	Stand alone SAR				SUM SAR	
			1	2	3	4	1+2	1+3+4
			WWAN	2.4GWIFI Max.	5GWIFI Max.	Bluetooth		
			State4	Level3	Level3/4			
GSM850	Ant.1	Left Cheek	0.562	0.594	0.460	0.520	1.156	1.542
		Left Tilt	0.452	0.458	0.381	0.403	0.910	1.236
		Right Cheek	0.932	0.248	0.208	0.216	1.180	1.356
		Right Tilt	0.646	0.221	0.195	0.196	0.867	1.037
GSM850	Ant.0	Left Cheek	0.203	0.594	0.460	0.520	0.797	1.183
		Left Tilt	0.115	0.458	0.381	0.403	0.573	0.899
		Right Cheek	0.174	0.248	0.208	0.216	0.422	0.598
		Right Tilt	0.096	0.221	0.195	0.196	0.317	0.487
GSM1900	Ant.1	Left Cheek	0.326	0.594	0.460	0.520	0.920	1.306
		Left Tilt	0.439	0.458	0.381	0.403	0.897	1.223
		Right Cheek	0.544	0.248	0.208	0.216	0.792	0.968
		Right Tilt	0.797	0.221	0.195	0.196	1.018	1.188
GSM1900	Ant.0	Left Cheek	0.128	0.594	0.460	0.520	0.722	1.108
		Left Tilt	0.066	0.458	0.381	0.403	0.524	0.850
		Right Cheek	0.108	0.248	0.208	0.216	0.356	0.532
		Right Tilt	0.072	0.221	0.195	0.196	0.293	0.463
WCDMA B2	Ant.1	Left Cheek	0.460	0.594	0.460	0.520	1.054	1.440
		Left Tilt	0.587	0.458	0.381	0.403	1.045	1.371
		Right Cheek	0.712	0.248	0.208	0.216	0.960	1.136
		Right Tilt	1.003	0.221	0.195	0.196	1.224	1.394
WCDMA B2	Ant.0	Left Cheek	0.182	0.594	0.460	0.520	0.776	1.162
		Left Tilt	0.094	0.458	0.381	0.403	0.552	0.878
		Right Cheek	0.168	0.248	0.208	0.216	0.416	0.592
		Right Tilt	0.106	0.221	0.195	0.196	0.327	0.497
WCDMA B4	Ant.1	Left Cheek	0.528	0.594	0.460	0.520	1.122	1.508
		Left Tilt	0.656	0.458	0.381	0.403	1.114	1.440
		Right Cheek	0.872	0.248	0.208	0.216	1.120	1.296
		Right Tilt	1.059	0.221	0.195	0.196	1.280	1.450
WCDMA B4	Ant.0	Left Cheek	0.219	0.594	0.460	0.520	0.813	1.199
		Left Tilt	0.103	0.458	0.381	0.403	0.561	0.887
		Right Cheek	0.107	0.248	0.208	0.216	0.355	0.531
		Right Tilt	0.105	0.221	0.195	0.196	0.326	0.496
WCDMA B5	Ant.1	Left Cheek	0.576	0.594	0.460	0.520	1.170	1.556
		Left Tilt	0.558	0.458	0.381	0.403	1.016	1.342
		Right Cheek	0.950	0.248	0.208	0.216	1.198	1.374
		Right Tilt	0.797	0.221	0.195	0.196	1.018	1.188
WCDMA B5	Ant.0	Left Cheek	0.240	0.594	0.460	0.520	0.834	1.220

		Left Tilt	0.124	0.458	0.381	0.403	0.582	0.908
		Right Cheek	0.177	0.248	0.208	0.216	0.425	0.601
		Right Tilt	0.086	0.221	0.195	0.196	0.307	0.477
LTE B2	Ant.1	Left Cheek	0.459	0.594	0.460	0.520	1.053	1.439
		Left Tilt	0.561	0.458	0.381	0.403	1.019	1.345
		Right Cheek	0.702	0.248	0.208	0.216	0.950	1.126
		Right Tilt	0.913	0.221	0.195	0.196	1.134	1.304
LTE B2	Ant.0	Left Cheek	0.148	0.594	0.460	0.520	0.742	1.128
		Left Tilt	0.075	0.458	0.381	0.403	0.533	0.859
		Right Cheek	0.129	0.248	0.208	0.216	0.377	0.553
		Right Tilt	0.082	0.221	0.195	0.196	0.303	0.473
LTE B4	Ant.1	Left Cheek	0.549	0.594	0.460	0.520	1.143	1.529
		Left Tilt	0.668	0.458	0.381	0.403	1.126	1.452
		Right Cheek	0.798	0.248	0.208	0.216	1.046	1.222
		Right Tilt	1.082	0.221	0.195	0.196	1.303	1.473
LTE B4	Ant.0	Left Cheek	0.183	0.594	0.460	0.520	0.777	1.163
		Left Tilt	0.086	0.458	0.381	0.403	0.544	0.870
		Right Cheek	0.090	0.248	0.208	0.216	0.338	0.514
		Right Tilt	0.085	0.221	0.195	0.196	0.306	0.476
LTE B4	Ant.2	Left Cheek	0.046	0.594	0.460	0.520	0.640	1.026
		Left Tilt	0.006	0.458	0.381	0.403	0.464	0.790
		Right Cheek	0.146	0.248	0.208	0.216	0.394	0.570
		Right Tilt	0.006	0.221	0.195	0.196	0.227	0.397
LTE B5	Ant.1	Left Cheek	0.560	0.594	0.460	0.520	1.154	1.540
		Left Tilt	0.544	0.458	0.381	0.403	1.002	1.328
		Right Cheek	0.989	0.248	0.208	0.216	1.237	1.413
		Right Tilt	0.769	0.221	0.195	0.196	0.990	1.160
LTE B5	Ant.0	Left Cheek	0.186	0.594	0.460	0.520	0.780	1.166
		Left Tilt	0.098	0.458	0.381	0.403	0.556	0.882
		Right Cheek	0.156	0.248	0.208	0.216	0.404	0.580
		Right Tilt	0.075	0.221	0.195	0.196	0.296	0.466
LTE B7	Ant.1	Left Cheek	0.320	0.594	0.460	0.520	0.914	1.300
		Left Tilt	0.443	0.458	0.381	0.403	0.901	1.227
		Right Cheek	0.733	0.248	0.208	0.216	0.981	1.157
		Right Tilt	1.093	0.221	0.195	0.196	1.314	1.484
LTE B7	Ant.0	Left Cheek	0.172	0.594	0.460	0.520	0.766	1.152
		Left Tilt	0.132	0.458	0.381	0.403	0.590	0.916
		Right Cheek	0.331	0.248	0.208	0.216	0.579	0.755
		Right Tilt	0.199	0.221	0.195	0.196	0.420	0.590
LTE B7	Ant.2	Left Cheek	0.125	0.594	0.460	0.520	0.719	1.105
		Left Tilt	0.081	0.458	0.381	0.403	0.539	0.865
		Right Cheek	0.440	0.248	0.208	0.216	0.688	0.864
		Right Tilt	0.126	0.221	0.195	0.196	0.347	0.517

LTE B12	Ant.1	Left Cheek	0.465	0.594	0.460	0.520	1.059	1.445
		Left Tilt	0.409	0.458	0.381	0.403	0.867	1.193
		Right Cheek	0.829	0.248	0.208	0.216	1.077	1.253
		Right Tilt	0.684	0.221	0.195	0.196	0.905	1.075
LTE B12	Ant.0	Left Cheek	0.137	0.594	0.460	0.520	0.731	1.117
		Left Tilt	0.074	0.458	0.381	0.403	0.532	0.858
		Right Cheek	0.119	0.248	0.208	0.216	0.367	0.543
		Right Tilt	0.036	0.221	0.195	0.196	0.257	0.427
LTE B13	Ant.1	Left Cheek	0.594	0.594	0.460	0.520	1.188	1.574
		Left Tilt	0.582	0.458	0.381	0.403	1.040	1.366
		Right Cheek	1.145	0.248	0.208	0.216	1.393	1.569
		Right Tilt	0.935	0.221	0.195	0.196	1.156	1.326
LTE B13	Ant.0	Left Cheek	0.161	0.594	0.460	0.520	0.755	1.141
		Left Tilt	0.075	0.458	0.381	0.403	0.533	0.859
		Right Cheek	0.138	0.248	0.208	0.216	0.386	0.562
		Right Tilt	0.065	0.221	0.195	0.196	0.286	0.456
LTE B17	Ant.1	Left Cheek	0.435	0.594	0.460	0.520	1.029	1.415
		Left Tilt	0.423	0.458	0.381	0.403	0.881	1.207
		Right Cheek	0.855	0.248	0.208	0.216	1.103	1.279
		Right Tilt	0.708	0.221	0.195	0.196	0.929	1.099
LTE B17	Ant.0	Left Cheek	0.136	0.594	0.460	0.520	0.730	1.116
		Left Tilt	0.076	0.458	0.381	0.403	0.534	0.860
		Right Cheek	0.115	0.248	0.208	0.216	0.363	0.539
		Right Tilt	0.066	0.221	0.195	0.196	0.287	0.457
LTE B26	Ant.1	Left Cheek	0.576	0.594	0.460	0.520	1.170	1.556
		Left Tilt	0.517	0.458	0.381	0.403	0.975	1.301
		Right Cheek	0.990	0.248	0.208	0.216	1.238	1.414
		Right Tilt	0.760	0.221	0.195	0.196	0.981	1.151
LTE B26	Ant.0	Left Cheek	0.190	0.594	0.460	0.520	0.784	1.170
		Left Tilt	0.107	0.458	0.381	0.403	0.565	0.891
		Right Cheek	0.154	0.248	0.208	0.216	0.402	0.578
		Right Tilt	0.082	0.221	0.195	0.196	0.303	0.473
LTE B66	Ant.1	Left Cheek	0.520	0.594	0.460	0.520	1.114	1.500
		Left Tilt	0.645	0.458	0.381	0.403	1.103	1.429
		Right Cheek	0.790	0.248	0.208	0.216	1.038	1.214
		Right Tilt	1.000	0.221	0.195	0.196	1.221	1.391
LTE B66	Ant.0	Left Cheek	0.217	0.594	0.460	0.520	0.811	1.197
		Left Tilt	0.098	0.458	0.381	0.403	0.556	0.882
		Right Cheek	0.111	0.248	0.208	0.216	0.359	0.535
		Right Tilt	0.106	0.221	0.195	0.196	0.327	0.497
LTE B66	Ant.2	Left Cheek	0.068	0.594	0.460	0.520	0.662	1.048
		Left Tilt	0.057	0.458	0.381	0.403	0.515	0.841
		Right Cheek	0.178	0.248	0.208	0.216	0.426	0.602



		Right Tilt	0.060	0.221	0.195	0.196	0.281	0.451
LTE B38	Ant.1	Left Cheek	0.337	0.594	0.460	0.520	0.931	1.317
		Left Tilt	0.468	0.458	0.381	0.403	0.926	1.252
		Right Cheek	0.799	0.248	0.208	0.216	1.047	1.223
		Right Tilt	1.016	0.221	0.195	0.196	1.237	1.407
LTE B38	Ant.0	Left Cheek	0.158	0.594	0.460	0.520	0.752	1.138
		Left Tilt	0.128	0.458	0.381	0.403	0.586	0.912
		Right Cheek	0.303	0.248	0.208	0.216	0.551	0.727
		Right Tilt	0.168	0.221	0.195	0.196	0.389	0.559
LTE B38	Ant.2	Left Cheek	0.260	0.594	0.460	0.520	0.854	1.240
		Left Tilt	0.096	0.458	0.381	0.403	0.554	0.880
		Right Cheek	0.672	0.248	0.208	0.216	0.920	1.096
		Right Tilt	0.201	0.221	0.195	0.196	0.422	0.592
LTE B41	Ant.1	Left Cheek	0.338	0.594	0.460	0.520	0.932	1.318
		Left Tilt	0.456	0.458	0.381	0.403	0.914	1.240
		Right Cheek	0.794	0.248	0.208	0.216	1.042	1.218
		Right Tilt	1.102	0.221	0.195	0.196	1.323	1.493
LTE B41	Ant.0	Left Cheek	0.183	0.594	0.460	0.520	0.777	1.163
		Left Tilt	0.138	0.458	0.381	0.403	0.596	0.922
		Right Cheek	0.338	0.248	0.208	0.216	0.586	0.762
		Right Tilt	0.193	0.221	0.195	0.196	0.414	0.584
LTE B41	Ant.2	Left Cheek	0.262	0.594	0.460	0.520	0.856	1.242
		Left Tilt	0.085	0.458	0.381	0.403	0.543	0.869
		Right Cheek	0.607	0.248	0.208	0.216	0.855	1.031
		Right Tilt	0.179	0.221	0.195	0.196	0.400	0.570
n5	Ant.1	Left Cheek	0.559	0.594	0.460	0.520	1.153	1.539
		Left Tilt	0.577	0.458	0.381	0.403	1.035	1.361
		Right Cheek	0.708	0.248	0.208	0.216	0.956	1.132
		Right Tilt	0.684	0.221	0.195	0.196	0.905	1.075
n5	Ant.0	Left Cheek	0.123	0.594	0.460	0.520	0.717	1.103
		Left Tilt	0.312	0.458	0.381	0.403	0.770	1.096
		Right Cheek	0.087	0.248	0.208	0.216	0.335	0.511
		Right Tilt	0.028	0.221	0.195	0.196	0.249	0.419
n7	Ant.1	Left Cheek	0.254	0.594	0.460	0.520	0.848	1.234
		Left Tilt	0.402	0.458	0.381	0.403	0.860	1.186
		Right Cheek	0.502	0.248	0.208	0.216	0.750	0.926
		Right Tilt	0.769	0.221	0.195	0.196	0.990	1.160
n7	Ant.0	Left Cheek	0.216	0.594	0.460	0.520	0.810	1.196
		Left Tilt	0.146	0.458	0.381	0.403	0.604	0.930
		Right Cheek	0.363	0.248	0.208	0.216	0.611	0.787
		Right Tilt	0.138	0.221	0.195	0.196	0.359	0.529
n7	Ant.2	Left Cheek	0.284	0.594	0.460	0.520	0.878	1.264
		Left Tilt	0.267	0.458	0.381	0.403	0.725	1.051

		Right Cheek	0.784	0.248	0.208	0.216	1.032	1.208
		Right Tilt	0.312	0.221	0.195	0.196	0.533	0.703
n66	Ant.1	Left Cheek	0.480	0.594	0.460	0.520	1.074	1.460
		Left Tilt	0.561	0.458	0.381	0.403	1.019	1.345
		Right Cheek	0.997	0.248	0.208	0.216	1.245	1.421
		Right Tilt	1.187	0.221	0.195	0.196	1.408	<b>1.578</b>
n66	Ant.0	Left Cheek	0.127	0.594	0.460	0.520	0.721	1.107
		Left Tilt	0.083	0.458	0.381	0.403	0.541	0.867
		Right Cheek	0.166	0.248	0.208	0.216	0.414	0.590
		Right Tilt	0.093	0.221	0.195	0.196	0.314	0.484
n66	Ant.2	Left Cheek	0.062	0.594	0.460	0.520	0.656	1.042
		Left Tilt	0.057	0.458	0.381	0.403	0.515	0.841
		Right Cheek	0.144	0.248	0.208	0.216	0.392	0.568
		Right Tilt	0.060	0.221	0.195	0.196	0.281	0.451
n38	Ant.1	Left Cheek	0.463	0.594	0.460	0.520	1.057	1.443
		Left Tilt	0.614	0.458	0.381	0.403	1.072	1.398
		Right Cheek	0.778	0.248	0.208	0.216	1.026	1.202
		Right Tilt	1.183	0.221	0.195	0.196	1.404	1.574
n38	Ant.0	Left Cheek	0.183	0.594	0.460	0.520	0.777	1.163
		Left Tilt	0.127	0.458	0.381	0.403	0.585	0.911
		Right Cheek	0.391	0.248	0.208	0.216	0.639	0.815
		Right Tilt	0.143	0.221	0.195	0.196	0.364	0.534
n38	Ant.2	Left Cheek	0.146	0.594	0.460	0.520	0.740	1.126
		Left Tilt	0.060	0.458	0.381	0.403	0.518	0.844
		Right Cheek	0.455	0.248	0.208	0.216	0.703	0.879
		Right Tilt	0.137	0.221	0.195	0.196	0.358	0.528
n41	Ant.1	Left Cheek	0.350	0.594	0.460	0.520	0.944	1.330
		Left Tilt	0.456	0.458	0.381	0.403	0.914	1.240
		Right Cheek	0.509	0.248	0.208	0.216	0.757	0.933
		Right Tilt	0.958	0.221	0.195	0.196	1.179	1.349
n41	Ant.0	Left Cheek	0.220	0.594	0.460	0.520	0.814	1.200
		Left Tilt	0.183	0.458	0.381	0.403	0.641	0.967
		Right Cheek	0.400	0.248	0.208	0.216	0.648	0.824
		Right Tilt	0.178	0.221	0.195	0.196	0.399	0.569
n41	Ant.2	Left Cheek	0.127	0.594	0.460	0.520	0.721	1.107
		Left Tilt	0.064	0.458	0.381	0.403	0.522	0.848
		Right Cheek	0.369	0.248	0.208	0.216	0.617	0.793
		Right Tilt	0.145	0.221	0.195	0.196	0.366	0.536

## Note:

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

2: The highest Summed 1g SAR is 1.578 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

### 13.2.6 Body-Worn Simultaneous Transmission SAR Evaluation for WWAN and WLAN and BT

Band	Antenna	Position	Stand alone SAR				SUM SAR	
			1	2	3	4	1+2	1+3+4
			WWAN	2.4GWIFI Max.	5GWIFI Max.	Bluetooth		
			State3	Level7/8	Level7			
GSM850	Ant.1	Front Side 15mm	0.153	0.072	0.086	0.043	0.225	0.282
		Back Side 15mm	0.170	0.111	0.129	0.086	0.281	0.385
GSM850	Ant.0	Front Side 15mm	0.144	0.072	0.086	0.043	0.216	0.273
		Back Side 15mm	0.209	0.111	0.129	0.086	0.320	0.424
GSM1900	Ant.1	Front Side 15mm	0.117	0.072	0.086	0.043	0.189	0.246
		Back Side 15mm	0.185	0.111	0.129	0.086	0.296	0.400
GSM1900	Ant.0	Front Side 15mm	0.183	0.072	0.086	0.043	0.255	0.312
		Back Side 15mm	0.289	0.111	0.129	0.086	0.400	0.504
WCDMA B2	Ant.1	Front Side 15mm	0.183	0.072	0.086	0.043	0.255	0.312
		Back Side 15mm	0.283	0.111	0.129	0.086	0.394	0.498
WCDMA B2	Ant.0	Front Side 15mm	0.213	0.072	0.086	0.043	0.285	0.342
		Back Side 15mm	0.311	0.111	0.129	0.086	0.422	0.526
WCDMA B4	Ant.1	Front Side 15mm	0.204	0.072	0.086	0.043	0.276	0.333
		Back Side 15mm	0.261	0.111	0.129	0.086	0.372	0.476
WCDMA B4	Ant.0	Front Side 15mm	0.239	0.072	0.086	0.043	0.311	0.368
		Back Side 15mm	0.382	0.111	0.129	0.086	0.493	0.597
WCDMA B5	Ant.1	Front Side 15mm	0.108	0.072	0.086	0.043	0.180	0.237
		Back Side 15mm	0.124	0.111	0.129	0.086	0.235	0.339
WCDMA B5	Ant.0	Front Side 15mm	0.149	0.072	0.086	0.043	0.221	0.278
		Back Side 15mm	0.204	0.111	0.129	0.086	0.315	0.419
LTE B2	Ant.1	Front Side 15mm	0.168	0.072	0.086	0.043	0.240	0.297
		Back Side 15mm	0.251	0.111	0.129	0.086	0.362	0.466
LTE B2	Ant.0	Front Side 15mm	0.213	0.072	0.086	0.043	0.285	0.342
		Back Side 15mm	0.315	0.111	0.129	0.086	0.426	0.530
LTE B4	Ant.1	Front Side 15mm	0.200	0.072	0.086	0.043	0.272	0.329
		Back Side 15mm	0.257	0.111	0.129	0.086	0.368	0.472
LTE B4	Ant.0	Front Side 15mm	0.185	0.072	0.086	0.043	0.257	0.314
		Back Side 15mm	0.296	0.111	0.129	0.086	0.407	0.511
LTE B4	Ant.2	Front Side 15mm	0.011	0.072	0.086	0.043	0.083	0.140
		Back Side 15mm	0.027	0.111	0.129	0.086	0.138	0.242
LTE B5	Ant.1	Front Side 15mm	0.119	0.072	0.086	0.043	0.191	0.248
		Back Side 15mm	0.135	0.111	0.129	0.086	0.246	0.350
LTE B5	Ant.0	Front Side 15mm	0.116	0.072	0.086	0.043	0.188	0.245
		Back Side 15mm	0.163	0.111	0.129	0.086	0.274	0.378
LTE B7	Ant.1	Front Side 15mm	0.101	0.072	0.086	0.043	0.173	0.230
		Back Side 15mm	0.187	0.111	0.129	0.086	0.298	0.402

LTE B7	Ant.0	Front Side 15mm	0.119	0.072	0.086	0.043	0.191	0.248
		Back Side 15mm	0.191	0.111	0.129	0.086	0.302	0.406
LTE B7	Ant.2	Front Side 15mm	0.020	0.072	0.086	0.043	0.092	0.149
		Back Side 15mm	0.048	0.111	0.129	0.086	0.159	0.263
LTE B12	Ant.1	Front Side 15mm	0.137	0.072	0.086	0.043	0.209	0.266
		Back Side 15mm	0.173	0.111	0.129	0.086	0.284	0.388
LTE B12	Ant.0	Front Side 15mm	0.145	0.072	0.086	0.043	0.217	0.274
		Back Side 15mm	0.228	0.111	0.129	0.086	0.339	0.443
LTE B13	Ant.1	Front Side 15mm	0.107	0.072	0.086	0.043	0.179	0.236
		Back Side 15mm	0.134	0.111	0.129	0.086	0.245	0.349
LTE B13	Ant.0	Front Side 15mm	0.110	0.072	0.086	0.043	0.182	0.239
		Back Side 15mm	0.147	0.111	0.129	0.086	0.258	0.362
LTE B17	Ant.1	Front Side 15mm	0.137	0.072	0.086	0.043	0.209	0.266
		Back Side 15mm	0.173	0.111	0.129	0.086	0.284	0.388
LTE B17	Ant.0	Front Side 15mm	0.147	0.072	0.086	0.043	0.219	0.276
		Back Side 15mm	0.227	0.111	0.129	0.086	0.338	0.442
LTE B26	Ant.1	Front Side 15mm	0.126	0.072	0.086	0.043	0.198	0.255
		Back Side 15mm	0.143	0.111	0.129	0.086	0.254	0.358
LTE B26	Ant.0	Front Side 15mm	0.113	0.072	0.086	0.043	0.185	0.242
		Back Side 15mm	0.163	0.111	0.129	0.086	0.274	0.378
LTE B66	Ant.1	Front Side 15mm	0.173	0.072	0.086	0.043	0.245	0.302
		Back Side 15mm	0.241	0.111	0.129	0.086	0.352	0.456
LTE B66	Ant.0	Front Side 15mm	0.101	0.072	0.086	0.043	0.173	0.230
		Back Side 15mm	0.153	0.111	0.129	0.086	0.264	0.368
LTE B66	Ant.2	Front Side 15mm	0.015	0.072	0.086	0.043	0.087	0.144
		Back Side 15mm	0.032	0.111	0.129	0.086	0.143	0.247
LTE B38	Ant.1	Front Side 15mm	0.150	0.072	0.086	0.043	0.222	0.279
		Back Side 15mm	0.359	0.111	0.129	0.086	0.470	0.574
LTE B38	Ant.0	Front Side 15mm	0.180	0.072	0.086	0.043	0.252	0.309
		Back Side 15mm	0.280	0.111	0.129	0.086	0.391	0.495
LTE B38	Ant.2	Front Side 15mm	0.102	0.072	0.086	0.043	0.174	0.231
		Back Side 15mm	0.255	0.111	0.129	0.086	0.366	0.470
LTE B41	Ant.1	Front Side 15mm	0.130	0.072	0.086	0.043	0.202	0.259
		Back Side 15mm	0.320	0.111	0.129	0.086	0.431	0.535
LTE B41	Ant.0	Front Side 15mm	0.155	0.072	0.086	0.043	0.227	0.284
		Back Side 15mm	0.255	0.111	0.129	0.086	0.366	0.470
LTE B41	Ant.2	Front Side 15mm	0.042	0.072	0.086	0.043	0.114	0.171
		Back Side 15mm	0.116	0.111	0.129	0.086	0.227	0.331
n5	Ant.1	Front Side 15mm	0.121	0.072	0.086	0.043	0.193	0.250
		Back Side 15mm	0.175	0.111	0.129	0.086	0.286	0.390
n5	Ant.0	Front Side 15mm	0.066	0.072	0.086	0.043	0.138	0.195
		Back Side 15mm	0.130	0.111	0.129	0.086	0.241	0.345
n7	Ant.1	Front Side 15mm	0.068	0.072	0.086	0.043	0.140	0.197

		Back Side 15mm	0.153	0.111	0.129	0.086	0.264	0.368
n7	Ant.0	Front Side 15mm	0.088	0.072	0.086	0.043	0.160	0.217
		Back Side 15mm	0.192	0.111	0.129	0.086	0.303	0.407
n7	Ant.2	Front Side 15mm	0.049	0.072	0.086	0.043	0.121	0.178
		Back Side 15mm	0.089	0.111	0.129	0.086	0.200	0.304
n66	Ant.1	Front Side 15mm	0.245	0.072	0.086	0.043	0.317	0.374
		Back Side 15mm	0.323	0.111	0.129	0.086	0.434	0.538
n66	Ant.0	Front Side 15mm	0.203	0.072	0.086	0.043	0.275	0.332
		Back Side 15mm	0.393	0.111	0.129	0.086	0.504	<b>0.608</b>
n66	Ant.2	Front Side 15mm	0.013	0.072	0.086	0.043	0.085	0.142
		Back Side 15mm	0.031	0.111	0.129	0.086	0.142	0.246
n38	Ant.1	Front Side 15mm	0.104	0.072	0.086	0.043	0.176	0.233
		Back Side 15mm	0.300	0.111	0.129	0.086	0.411	0.515
n38	Ant.0	Front Side 15mm	0.157	0.072	0.086	0.043	0.229	0.286
		Back Side 15mm	0.238	0.111	0.129	0.086	0.349	0.453
n38	Ant.2	Front Side 15mm	0.053	0.072	0.086	0.043	0.125	0.182
		Back Side 15mm	0.114	0.111	0.129	0.086	0.225	0.329
n41	Ant.1	Front Side 15mm	0.105	0.072	0.086	0.043	0.177	0.234
		Back Side 15mm	0.280	0.111	0.129	0.086	0.391	0.495
n41	Ant.0	Front Side 15mm	0.121	0.072	0.086	0.043	0.193	0.250
		Back Side 15mm	0.197	0.111	0.129	0.086	0.308	0.412
n41	Ant.2	Front Side 15mm	0.038	0.072	0.086	0.043	0.110	0.167
		Back Side 15mm	0.084	0.111	0.129	0.086	0.195	0.299

Note:

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

2: The highest Summed 1g SAR is 0.608 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

### 13.2.7 Hotspot Simultaneous Transmission SAR Evaluation for WWAN and WLAN and BT

Band	Antenna	Position	Stand alone SAR				SUM SAR	
			1	2	3	4	1+2	1+3+4
			WWAN	2.4GWIFI Max.	5GWIFI Max.	Bluetooth		
			State3	Level7	Level7/8			
GSM850	Ant.1	Front Side 10mm	0.240	0.106	0.210	0.078	0.346	0.528
		Back Side 10mm	0.350	0.171	0.294	0.136	0.521	0.780
		Left Edge 10mm	0.115	0.082	0.277	0.060	0.197	0.452
		Right Edge 10mm	0.162	0.000	0.000	0.000	0.162	0.162
		Top Edge 10mm	0.350	0.136	0.250	0.094	0.486	0.694
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
GSM850	Ant.0	Front Side 10mm	0.202	0.106	0.210	0.078	0.308	0.490
		Back Side 10mm	0.411	0.171	0.294	0.136	0.582	0.841
		Left Edge 10mm	0.000	0.082	0.277	0.060	0.082	0.337
		Right Edge 10mm	0.189	0.000	0.000	0.000	0.189	0.189
		Top Edge 10mm	0.000	0.136	0.250	0.094	0.136	0.344
		Bottom Edge 10mm	0.289	0.000	0.000	0.000	0.289	0.289
GSM1900	Ant.1	Front Side 10mm	0.301	0.106	0.210	0.078	0.407	0.589
		Back Side 10mm	0.442	0.171	0.294	0.136	0.613	0.872
		Left Edge 10mm	0.030	0.082	0.277	0.060	0.112	0.367
		Right Edge 10mm	0.063	0.000	0.000	0.000	0.063	0.063
		Top Edge 10mm	0.625	0.136	0.250	0.094	0.761	0.969
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
GSM1900	Ant.0	Front Side 10mm	0.373	0.106	0.210	0.078	0.479	0.661
		Back Side 10mm	0.599	0.171	0.294	0.136	0.770	1.029
		Left Edge 10mm	0.118	0.082	0.277	0.060	0.200	0.455
		Right Edge 10mm	0.095	0.000	0.000	0.000	0.095	0.095
		Top Edge 10mm	0.000	0.136	0.250	0.094	0.136	0.344
		Bottom Edge 10mm	0.717	0.000	0.000	0.000	0.717	0.717
WCDMA B2	Ant.1	Front Side 10mm	0.401	0.106	0.210	0.078	0.507	0.689
		Back Side 10mm	0.587	0.171	0.294	0.136	0.758	1.017
		Left Edge 10mm	0.041	0.082	0.277	0.060	0.123	0.378
		Right Edge 10mm	0.076	0.000	0.000	0.000	0.076	0.076
		Top Edge 10mm	0.793	0.136	0.250	0.094	0.929	1.137
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA B2	Ant.0	Front Side 10mm	0.344	0.106	0.210	0.078	0.450	0.632
		Back Side 10mm	0.681	0.171	0.294	0.136	0.852	1.111
		Left Edge 10mm	0.191	0.082	0.277	0.060	0.273	0.528
		Right Edge 10mm	0.088	0.000	0.000	0.000	0.088	0.088
		Top Edge 10mm	0.000	0.136	0.250	0.094	0.136	0.344
		Bottom Edge 10mm	0.777	0.000	0.000	0.000	0.777	0.777
WCDMA B4	Ant.1	Front Side 10mm	0.324	0.106	0.210	0.078	0.430	0.612

		Back Side 10mm	0.416	0.171	0.294	0.136	0.587	0.846
		Left Edge 10mm	0.038	0.082	0.277	0.060	0.120	0.375
		Right Edge 10mm	0.069	0.000	0.000	0.000	0.069	0.069
		Top Edge 10mm	0.658	0.136	0.250	0.094	0.794	1.002
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA B4	Ant.0	Front Side 10mm	0.368	0.106	0.210	0.078	0.474	0.656
		Back Side 10mm	0.675	0.171	0.294	0.136	0.846	1.105
		Left Edge 10mm	0.144	0.082	0.277	0.060	0.226	0.481
		Right Edge 10mm	0.090	0.000	0.000	0.000	0.090	0.090
		Top Edge 10mm	0.000	0.136	0.250	0.094	0.136	0.344
		Bottom Edge 10mm	0.734	0.000	0.000	0.000	0.734	0.734
WCDMA B5	Ant.1	Front Side 10mm	0.178	0.106	0.210	0.078	0.284	0.466
		Back Side 10mm	0.244	0.171	0.294	0.136	0.415	0.674
		Left Edge 10mm	0.108	0.082	0.277	0.060	0.190	0.445
		Right Edge 10mm	0.115	0.000	0.000	0.000	0.115	0.115
		Top Edge 10mm	0.211	0.136	0.250	0.094	0.347	0.555
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA B5	Ant.0	Front Side 10mm	0.201	0.106	0.210	0.078	0.307	0.489
		Back Side 10mm	0.400	0.171	0.294	0.136	0.571	0.830
		Left Edge 10mm	0.123	0.082	0.277	0.060	0.205	0.460
		Right Edge 10mm	0.200	0.000	0.000	0.000	0.200	0.200
		Top Edge 10mm	0.000	0.136	0.250	0.094	0.136	0.344
		Bottom Edge 10mm	0.285	0.000	0.000	0.000	0.285	0.285
LTE B2	Ant.1	Front Side 10mm	0.261	0.106	0.210	0.078	0.367	0.549
		Back Side 10mm	0.404	0.171	0.294	0.136	0.575	0.834
		Left Edge 10mm	0.023	0.082	0.277	0.060	0.105	0.360
		Right Edge 10mm	0.050	0.000	0.000	0.000	0.050	0.050
		Top Edge 10mm	0.665	0.136	0.250	0.094	0.801	1.009
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
LTE B2	Ant.0	Front Side 10mm	0.336	0.106	0.210	0.078	0.442	0.624
		Back Side 10mm	0.540	0.171	0.294	0.136	0.711	0.970
		Left Edge 10mm	0.163	0.082	0.277	0.060	0.245	0.500
		Right Edge 10mm	0.088	0.000	0.000	0.000	0.088	0.088
		Top Edge 10mm	0.000	0.136	0.250	0.094	0.136	0.344
		Bottom Edge 10mm	0.748	0.000	0.000	0.000	0.748	0.748
LTE B4	Ant.1	Front Side 10mm	0.410	0.106	0.210	0.078	0.516	0.698
		Back Side 10mm	0.563	0.171	0.294	0.136	0.734	0.993
		Left Edge 10mm	0.050	0.082	0.277	0.060	0.132	0.387
		Right Edge 10mm	0.085	0.000	0.000	0.000	0.085	0.085
		Top Edge 10mm	0.906	0.136	0.250	0.094	1.042	1.250
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
LTE B4	Ant.0	Front Side 10mm	0.336	0.106	0.210	0.078	0.442	0.624
		Back Side 10mm	0.555	0.171	0.294	0.136	0.726	0.985

		Left Edge 10mm	0.139	0.082	0.277	0.060	0.221	0.476
		Right Edge 10mm	0.103	0.000	0.000	0.000	0.103	0.103
		Top Edge 10mm	0.000	0.136	0.250	0.094	0.136	0.344
		Bottom Edge 10mm	0.708	0.000	0.000	0.000	0.708	0.708
LTE B4	Ant.2	Front Side 10mm	0.036	0.106	0.210	0.078	0.142	0.324
		Back Side 10mm	0.063	0.171	0.294	0.136	0.234	0.493
		Left Edge 10mm	0.000	0.082	0.277	0.060	0.082	0.337
		Right Edge 10mm	0.004	0.000	0.000	0.000	0.004	0.004
		Top Edge 10mm	0.000	0.136	0.250	0.094	0.136	0.344
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
LTE B5	Ant.1	Front Side 10mm	0.186	0.106	0.210	0.078	0.292	0.474
		Back Side 10mm	0.260	0.171	0.294	0.136	0.431	0.690
		Left Edge 10mm	0.115	0.082	0.277	0.060	0.197	0.452
		Right Edge 10mm	0.125	0.000	0.000	0.000	0.125	0.125
		Top Edge 10mm	0.244	0.136	0.250	0.094	0.380	0.588
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
LTE B5	Ant.0	Front Side 10mm	0.161	0.106	0.210	0.078	0.267	0.449
		Back Side 10mm	0.268	0.171	0.294	0.136	0.439	0.698
		Left Edge 10mm	0.098	0.082	0.277	0.060	0.180	0.435
		Right Edge 10mm	0.168	0.000	0.000	0.000	0.168	0.168
		Top Edge 10mm	0.000	0.136	0.250	0.094	0.136	0.344
		Bottom Edge 10mm	0.229	0.000	0.000	0.000	0.229	0.229
LTE B7	Ant.1	Front Side 10mm	0.179	0.106	0.210	0.078	0.285	0.467
		Back Side 10mm	0.378	0.171	0.294	0.136	0.549	0.808
		Left Edge 10mm	0.000	0.082	0.277	0.060	0.082	0.337
		Right Edge 10mm	0.074	0.000	0.000	0.000	0.074	0.074
		Top Edge 10mm	0.583	0.136	0.250	0.094	0.719	0.927
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
LTE B7	Ant.0	Front Side 10mm	0.348	0.106	0.210	0.078	0.454	0.636
		Back Side 10mm	0.561	0.171	0.294	0.136	0.732	0.991
		Left Edge 10mm	0.338	0.082	0.277	0.060	0.420	0.675
		Right Edge 10mm	0.091	0.000	0.000	0.000	0.091	0.091
		Top Edge 10mm	0.000	0.136	0.250	0.094	0.136	0.344
		Bottom Edge 10mm	0.402	0.000	0.000	0.000	0.402	0.402
LTE B7	Ant.2	Front Side 10mm	0.042	0.106	0.210	0.078	0.148	0.330
		Back Side 10mm	0.088	0.171	0.294	0.136	0.259	0.518
		Left Edge 10mm	0.000	0.082	0.277	0.060	0.082	0.337
		Right Edge 10mm	0.065	0.000	0.000	0.000	0.065	0.065
		Top Edge 10mm	0.000	0.136	0.250	0.094	0.136	0.344
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
LTE B12	Ant.1	Front Side 10mm	0.126	0.106	0.210	0.078	0.232	0.414
		Back Side 10mm	0.171	0.171	0.294	0.136	0.342	0.601
		Left Edge 10mm	0.149	0.082	0.277	0.060	0.231	0.486



		Right Edge 10mm	0.186	0.000	0.000	0.000	0.186	0.186
		Top Edge 10mm	0.130	0.136	0.250	0.094	0.266	0.474
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
LTE B12	Ant.0	Front Side 10mm	0.133	0.106	0.210	0.078	0.239	0.421
		Back Side 10mm	0.247	0.171	0.294	0.136	0.418	0.677
		Left Edge 10mm	0.156	0.082	0.277	0.060	0.238	0.493
		Right Edge 10mm	0.236	0.000	0.000	0.000	0.236	0.236
		Top Edge 10mm	0.000	0.136	0.250	0.094	0.136	0.344
		Bottom Edge 10mm	0.096	0.000	0.000	0.000	0.096	0.096
LTE B13	Ant.1	Front Side 10mm	0.149	0.106	0.210	0.078	0.255	0.437
		Back Side 10mm	0.234	0.171	0.294	0.136	0.405	0.664
		Left Edge 10mm	0.126	0.082	0.277	0.060	0.208	0.463
		Right Edge 10mm	0.119	0.000	0.000	0.000	0.119	0.119
		Top Edge 10mm	0.186	0.136	0.250	0.094	0.322	0.530
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
LTE B13	Ant.0	Front Side 10mm	0.111	0.106	0.210	0.078	0.217	0.399
		Back Side 10mm	0.220	0.171	0.294	0.136	0.391	0.650
		Left Edge 10mm	0.100	0.082	0.277	0.060	0.182	0.437
		Right Edge 10mm	0.107	0.000	0.000	0.000	0.107	0.107
		Top Edge 10mm	0.000	0.136	0.250	0.094	0.136	0.344
		Bottom Edge 10mm	0.171	0.000	0.000	0.000	0.171	0.171
LTE B17	Ant.1	Front Side 10mm	0.125	0.106	0.210	0.078	0.231	0.413
		Back Side 10mm	0.187	0.171	0.294	0.136	0.358	0.617
		Left Edge 10mm	0.149	0.082	0.277	0.060	0.231	0.486
		Right Edge 10mm	0.187	0.000	0.000	0.000	0.187	0.187
		Top Edge 10mm	0.134	0.136	0.250	0.094	0.270	0.478
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
LTE B17	Ant.0	Front Side 10mm	0.136	0.106	0.210	0.078	0.242	0.424
		Back Side 10mm	0.250	0.171	0.294	0.136	0.421	0.680
		Left Edge 10mm	0.161	0.082	0.277	0.060	0.243	0.498
		Right Edge 10mm	0.235	0.000	0.000	0.000	0.235	0.235
		Top Edge 10mm	0.000	0.136	0.250	0.094	0.136	0.344
		Bottom Edge 10mm	0.115	0.000	0.000	0.000	0.115	0.115
LTE B26	Ant.1	Front Side 10mm	0.164	0.106	0.210	0.078	0.270	0.452
		Back Side 10mm	0.232	0.171	0.294	0.136	0.403	0.662
		Left Edge 10mm	0.098	0.082	0.277	0.060	0.180	0.435
		Right Edge 10mm	0.104	0.000	0.000	0.000	0.104	0.104
		Top Edge 10mm	0.223	0.136	0.250	0.094	0.359	0.567
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
LTE B26	Ant.0	Front Side 10mm	0.134	0.106	0.210	0.078	0.240	0.422
		Back Side 10mm	0.252	0.171	0.294	0.136	0.423	0.682
		Left Edge 10mm	0.084	0.082	0.277	0.060	0.166	0.421
		Right Edge 10mm	0.150	0.000	0.000	0.000	0.150	0.150

		Top Edge 10mm	0.000	0.136	0.250	0.094	0.136	0.344		
		Bottom Edge 10mm	0.190	0.000	0.000	0.000	0.190	0.190		
LTE B66	Ant.1	Front Side 10mm	0.299	0.106	0.210	0.078	0.405	0.587		
		Back Side 10mm	0.386	0.171	0.294	0.136	0.557	0.816		
		Left Edge 10mm	0.031	0.082	0.277	0.060	0.113	0.368		
		Right Edge 10mm	0.058	0.000	0.000	0.000	0.058	0.058		
		Top Edge 10mm	0.602	0.136	0.250	0.094	0.738	0.946		
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000		
		LTE B66	Ant.0	Front Side 10mm	0.251	0.106	0.210	0.078	0.357	0.539
				Back Side 10mm	0.418	0.171	0.294	0.136	0.589	0.848
Left Edge 10mm	0.109			0.082	0.277	0.060	0.191	0.446		
Right Edge 10mm	0.059			0.000	0.000	0.000	0.059	0.059		
Top Edge 10mm	0.000			0.136	0.250	0.094	0.136	0.344		
Bottom Edge 10mm	0.536			0.000	0.000	0.000	0.536	0.536		
LTE B66	Ant.2	Front Side 10mm	0.031	0.106	0.210	0.078	0.137	0.319		
		Back Side 10mm	0.079	0.171	0.294	0.136	0.250	0.509		
		Left Edge 10mm	0.000	0.082	0.277	0.060	0.082	0.337		
		Right Edge 10mm	0.103	0.000	0.000	0.000	0.103	0.103		
		Top Edge 10mm	0.000	0.136	0.250	0.094	0.136	0.344		
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000		
LTE B38	Ant.1	Front Side 10mm	0.309	0.106	0.210	0.078	0.415	0.597		
		Back Side 10mm	0.775	0.171	0.294	0.136	0.946	1.205		
		Left Edge 10mm	0.000	0.082	0.277	0.060	0.082	0.337		
		Right Edge 10mm	0.199	0.000	0.000	0.000	0.199	0.199		
		Top Edge 10mm	1.014	0.136	0.250	0.094	1.150	<b>1.358</b>		
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000		
LTE B38	Ant.0	Front Side 10mm	0.340	0.106	0.210	0.078	0.446	0.628		
		Back Side 10mm	0.519	0.171	0.294	0.136	0.690	0.949		
		Left Edge 10mm	0.333	0.082	0.277	0.060	0.415	0.670		
		Right Edge 10mm	0.085	0.000	0.000	0.000	0.085	0.085		
		Top Edge 10mm	0.000	0.136	0.250	0.094	0.136	0.344		
		Bottom Edge 10mm	0.340	0.000	0.000	0.000	0.340	0.340		
LTE B38	Ant.2	Front Side 10mm	0.031	0.106	0.210	0.078	0.137	0.319		
		Back Side 10mm	0.079	0.171	0.294	0.136	0.250	0.509		
		Left Edge 10mm	0.000	0.082	0.277	0.060	0.082	0.337		
		Right Edge 10mm	0.103	0.000	0.000	0.000	0.103	0.103		
		Top Edge 10mm	0.000	0.136	0.250	0.094	0.136	0.344		
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000		
LTE B41	Ant.1	Front Side 10mm	0.280	0.106	0.210	0.078	0.386	0.568		
		Back Side 10mm	0.703	0.171	0.294	0.136	0.874	1.133		
		Left Edge 10mm	0.000	0.082	0.277	0.060	0.082	0.337		
		Right Edge 10mm	0.180	0.000	0.000	0.000	0.180	0.180		
		Top Edge 10mm	0.923	0.136	0.250	0.094	1.059	1.267		

		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
LTE B41	Ant.0	Front Side 10mm	0.228	0.106	0.210	0.078	0.334	0.516
		Back Side 10mm	0.384	0.171	0.294	0.136	0.555	0.814
		Left Edge 10mm	0.251	0.082	0.277	0.060	0.333	0.588
		Right Edge 10mm	0.063	0.000	0.000	0.000	0.063	0.063
		Top Edge 10mm	0.000	0.136	0.250	0.094	0.136	0.344
		Bottom Edge 10mm	0.256	0.000	0.000	0.000	0.256	0.256
LTE B41	Ant.2	Front Side 10mm	0.095	0.106	0.210	0.078	0.201	0.383
		Back Side 10mm	0.302	0.171	0.294	0.136	0.473	0.732
		Left Edge 10mm	0.000	0.082	0.277	0.060	0.082	0.337
		Right Edge 10mm	0.275	0.000	0.000	0.000	0.275	0.275
		Top Edge 10mm	0.000	0.136	0.250	0.094	0.136	0.344
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
n5	Ant.1	Front Side 10mm	0.215	0.106	0.210	0.078	0.321	0.503
		Back Side 10mm	0.350	0.171	0.294	0.136	0.521	0.780
		Left Edge 10mm	0.117	0.082	0.277	0.060	0.199	0.454
		Right Edge 10mm	0.159	0.000	0.000	0.000	0.159	0.159
		Top Edge 10mm	0.292	0.136	0.250	0.094	0.428	0.636
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
n5	Ant.0	Front Side 10mm	0.106	0.106	0.210	0.078	0.212	0.394
		Back Side 10mm	0.272	0.171	0.294	0.136	0.443	0.702
		Left Edge 10mm	0.000	0.082	0.277	0.060	0.082	0.337
		Right Edge 10mm	0.111	0.000	0.000	0.000	0.111	0.111
		Top Edge 10mm	0.000	0.136	0.250	0.094	0.136	0.344
		Bottom Edge 10mm	0.179	0.000	0.000	0.000	0.179	0.179
n7	Ant.1	Front Side 10mm	0.171	0.106	0.210	0.078	0.277	0.459
		Back Side 10mm	0.441	0.171	0.294	0.136	0.612	0.871
		Left Edge 10mm	0.004	0.082	0.277	0.060	0.086	0.341
		Right Edge 10mm	0.084	0.000	0.000	0.000	0.084	0.084
		Top Edge 10mm	0.564	0.136	0.250	0.094	0.700	0.908
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
n7	Ant.0	Front Side 10mm	0.220	0.106	0.210	0.078	0.326	0.508
		Back Side 10mm	0.392	0.171	0.294	0.136	0.563	0.822
		Left Edge 10mm	0.334	0.082	0.277	0.060	0.416	0.671
		Right Edge 10mm	0.031	0.000	0.000	0.000	0.031	0.031
		Top Edge 10mm	0.000	0.136	0.250	0.094	0.136	0.344
		Bottom Edge 10mm	0.361	0.000	0.000	0.000	0.361	0.361
n7	Ant.2	Front Side 10mm	0.063	0.106	0.210	0.078	0.169	0.351
		Back Side 10mm	0.142	0.171	0.294	0.136	0.313	0.572
		Left Edge 10mm	0.000	0.082	0.277	0.060	0.082	0.337
		Right Edge 10mm	0.089	0.000	0.000	0.000	0.089	0.089
		Top Edge 10mm	0.000	0.136	0.250	0.094	0.136	0.344
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000

n66	Ant.1	Front Side 10mm	0.478	0.106	0.210	0.078	0.584	0.766
		Back Side 10mm	0.646	0.171	0.294	0.136	0.817	1.076
		Left Edge 10mm	0.057	0.082	0.277	0.060	0.139	0.394
		Right Edge 10mm	0.115	0.000	0.000	0.000	0.115	0.115
		Top Edge 10mm	0.957	0.136	0.250	0.094	1.093	1.301
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
n66	Ant.0	Front Side 10mm	0.387	0.106	0.210	0.078	0.493	0.675
		Back Side 10mm	0.689	0.171	0.294	0.136	0.860	1.119
		Left Edge 10mm	0.251	0.082	0.277	0.060	0.333	0.588
		Right Edge 10mm	0.062	0.000	0.000	0.000	0.062	0.062
		Top Edge 10mm	0.000	0.136	0.250	0.094	0.136	0.344
		Bottom Edge 10mm	0.652	0.000	0.000	0.000	0.652	0.652
n66	Ant.2	Front Side 10mm	0.028	0.106	0.210	0.078	0.134	0.316
		Back Side 10mm	0.074	0.171	0.294	0.136	0.245	0.504
		Left Edge 10mm	0.000	0.082	0.277	0.060	0.082	0.337
		Right Edge 10mm	0.088	0.000	0.000	0.000	0.088	0.088
		Top Edge 10mm	0.000	0.136	0.250	0.094	0.136	0.344
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
n38	Ant.1	Front Side 10mm	0.219	0.106	0.210	0.078	0.325	0.507
		Back Side 10mm	0.536	0.171	0.294	0.136	0.707	0.966
		Left Edge 10mm	0.000	0.082	0.277	0.060	0.082	0.337
		Right Edge 10mm	0.131	0.000	0.000	0.000	0.131	0.131
		Top Edge 10mm	0.861	0.136	0.250	0.094	0.997	1.205
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
n38	Ant.0	Front Side 10mm	0.244	0.106	0.210	0.078	0.350	0.532
		Back Side 10mm	0.448	0.171	0.294	0.136	0.619	0.878
		Left Edge 10mm	0.288	0.082	0.277	0.060	0.370	0.625
		Right Edge 10mm	0.006	0.000	0.000	0.000	0.006	0.006
		Top Edge 10mm	0.000	0.136	0.250	0.094	0.136	0.344
		Bottom Edge 10mm	0.446	0.000	0.000	0.000	0.446	0.446
n38	Ant.2	Front Side 10mm	0.100	0.106	0.210	0.078	0.206	0.388
		Back Side 10mm	0.263	0.171	0.294	0.136	0.434	0.693
		Left Edge 10mm	0.000	0.082	0.277	0.060	0.082	0.337
		Right Edge 10mm	0.218	0.000	0.000	0.000	0.218	0.218
		Top Edge 10mm	0.000	0.136	0.250	0.094	0.136	0.344
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
n41	Ant.1	Front Side 10mm	0.233	0.106	0.210	0.078	0.339	0.521
		Back Side 10mm	0.601	0.171	0.294	0.136	0.772	1.031
		Left Edge 10mm	0.000	0.082	0.277	0.060	0.082	0.337
		Right Edge 10mm	0.116	0.000	0.000	0.000	0.116	0.116
		Top Edge 10mm	0.785	0.136	0.250	0.094	0.921	1.129
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
n41	Ant.0	Front Side 10mm	0.225	0.106	0.210	0.078	0.331	0.513

		Back Side 10mm	0.405	0.171	0.294	0.136	0.576	0.835
		Left Edge 10mm	0.239	0.082	0.277	0.060	0.321	0.576
		Right Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
		Top Edge 10mm	0.000	0.136	0.250	0.094	0.136	0.344
		Bottom Edge 10mm	0.381	0.000	0.000	0.000	0.381	0.381
n41	Ant.2	Front Side 10mm	0.082	0.106	0.210	0.078	0.188	0.370
		Back Side 10mm	0.236	0.171	0.294	0.136	0.407	0.666
		Left Edge 10mm	0.000	0.082	0.277	0.060	0.082	0.337
		Right Edge 10mm	0.168	0.000	0.000	0.000	0.168	0.168
		Top Edge 10mm	0.000	0.136	0.250	0.094	0.136	0.344
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000

## Note:

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

2: The highest Summed 1g SAR is 1.358 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

## 13.2.8 Specific Simultaneous Transmission SAR Evaluation for WWAN and WLAN and BT

Band	Antenna	Position	Stand alone SAR				SUM SAR	
			1	2	3	4	1+2	1+3+4
			WWAN	2.4GWIFI Max.	5GWIFI Max.	Bluetooth		
			State3	Level7	Level7/8			
GSM1900	Ant.1	Top Edge 0mm	1.463	0.282	0.275	0.258	1.745	1.996
WCDMA B2	Ant.1	Back Side 0mm	1.089	0.547	0.349	0.392	1.636	1.830
		Top Edge 0mm	1.760	0.282	0.275	0.258	2.042	2.293
WCDMA B2	Ant.0	Back Side 0mm	2.185	0.547	0.349	0.392	2.732	2.926
		Bottom Edge 0mm	1.696	0.000	0.000	0.000	1.696	1.696
WCDMA B4	Ant.1	Top Edge 0mm	1.604	0.282	0.275	0.258	1.886	2.137
WCDMA B4	Ant.0	Back Side 0mm	2.347	0.547	0.349	0.392	2.894	3.088
		Bottom Edge 0mm	1.970	0.000	0.000	0.000	1.970	1.970
LTE B4	Ant.1	Top Edge 0mm	1.955	0.282	0.275	0.258	2.237	2.488
LTE B7	Ant.1	Top Edge 0mm	1.766	0.282	0.275	0.258	2.048	2.299
LTE B66	Ant.1	Top Edge 0mm	1.473	0.282	0.275	0.258	1.755	2.006
LTE B38	Ant.1	Top Edge 0mm	2.645	0.282	0.275	0.258	2.927	3.178
LTE B41	Ant.1	Top Edge 0mm	2.650	0.282	0.275	0.258	2.932	<b>3.183</b>
n7	Ant.1	Top Edge 0mm	1.839	0.282	0.275	0.258	2.121	2.372
n66	Ant.1	Top Edge 0mm	1.983	0.282	0.275	0.258	2.265	2.516
n38	Ant.1	Back Side 0mm	1.300	0.547	0.349	0.392	1.847	2.041
		Top Edge 0mm	2.194	0.282	0.275	0.258	2.476	2.727
n41	Ant.1	Back Side 0mm	1.145	0.547	0.349	0.392	1.692	1.886
		Top Edge 0mm	2.162	0.282	0.275	0.258	2.444	2.695

## Note:

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

2: The highest Summed 10g SAR is 3.183 W/Kg < 4.0 W/kg, so Simultaneous Transmission SAR test is not required.

### 13.2.9 Head Simultaneous Transmission SAR Evaluation for ENDC and WLAN and BT

Band	LTE Antenna	4G		ENDC	NR Antenna	SA		ENDC	Position	Stand alone SAR						SUM SAR	
		LTE SAR	LTE Max Power	LTE Max Power State4		NR SAR	NR Max Power	NR Max Power State4		LTE SAR State4	NR SAR State4	1	2	3	4	1+2	1+3+4
												ENDC (LTE+NR)	2 4G/WIFI Max.	5G/WIFI Max.			
													Bluetooth				
DC_7A+n5A	Ant.0	0.172	23.50	23.50	Ant.1	0.559	21.95	19.95	Left Cheek	0.172	0.353	0.525	0.594	0.480	0.520	1.119	1.505
		0.132	23.50	23.50		0.577	21.95	19.95	Left Tilt	0.132	0.364	0.496	0.458	0.381	0.403	0.954	1.280
		0.331	23.50	23.50		0.708	21.95	19.95	Right Cheek	0.331	0.447	0.778	0.248	0.208	0.216	1.026	1.202
		0.199	23.50	23.50		0.684	21.95	19.95	Right Tilt	0.199	0.432	0.631	0.221	0.195	0.196	0.852	1.022
DC_7A+n5A	Ant.2	0.125	21.50	20.00	Ant.1	0.559	21.95	19.95	Left Cheek	0.088	0.353	0.441	0.594	0.480	0.520	1.035	1.421
		0.081	21.50	20.00		0.577	21.95	19.95	Left Tilt	0.057	0.364	0.421	0.458	0.381	0.403	0.879	1.205
		0.440	21.50	20.00		0.708	21.95	19.95	Right Cheek	0.311	0.447	0.758	0.248	0.208	0.216	1.006	1.182
		0.126	21.50	20.00		0.684	21.95	19.95	Right Tilt	0.089	0.432	0.521	0.221	0.195	0.196	0.742	0.912
DC_66A+n5A	Ant.0	0.217	24.00	23.50	Ant.1	0.559	21.95	19.95	Left Cheek	0.193	0.353	0.546	0.594	0.480	0.520	1.140	1.526
		0.098	24.00	23.50		0.577	21.95	19.95	Left Tilt	0.087	0.364	0.451	0.458	0.381	0.403	0.909	1.235
		0.111	24.00	23.50		0.708	21.95	19.95	Right Cheek	0.099	0.447	0.546	0.248	0.208	0.216	0.794	0.970
		0.106	24.00	23.50		0.684	21.95	19.95	Right Tilt	0.094	0.432	0.526	0.221	0.195	0.196	0.747	0.917
DC_66A+n5A	Ant.2	0.068	22.50	22.50	Ant.1	0.559	21.95	19.95	Left Cheek	0.068	0.353	0.421	0.594	0.480	0.520	1.015	1.401
		0.057	22.50	22.50		0.577	21.95	19.95	Left Tilt	0.057	0.364	0.421	0.458	0.381	0.403	0.879	1.205
		0.178	22.50	22.50		0.708	21.95	19.95	Right Cheek	0.178	0.447	0.625	0.248	0.208	0.216	0.873	1.049
		0.060	22.50	22.50		0.684	21.95	19.95	Right Tilt	0.060	0.432	0.492	0.221	0.195	0.196	0.713	0.883
DC_2A+n7A	Ant.0	0.148	23.50	23.50	Ant.1	0.254	17.95	17.70	Left Cheek	0.148	0.240	0.388	0.594	0.480	0.520	0.982	1.368
		0.075	23.50	23.50		0.402	17.95	17.70	Left Tilt	0.075	0.380	0.455	0.458	0.381	0.403	0.913	1.239
		0.129	23.50	23.50		0.502	17.95	17.70	Right Cheek	0.129	0.474	0.603	0.248	0.208	0.216	0.851	1.027
		0.082	23.50	23.50		0.769	17.95	17.70	Right Tilt	0.082	0.726	0.808	0.221	0.195	0.196	1.029	1.199
DC_2A+n7A	Ant.0	0.148	23.50	23.50	Ant.2	0.284	23.20	22.20	Left Cheek	0.148	0.226	0.374	0.594	0.480	0.520	0.968	1.354
		0.075	23.50	23.50		0.267	23.20	22.20	Left Tilt	0.075	0.212	0.287	0.458	0.381	0.403	0.745	1.071
		0.129	23.50	23.50		0.784	23.20	22.20	Right Cheek	0.129	0.623	0.752	0.248	0.208	0.216	1.000	1.176
		0.082	23.50	23.50		0.312	23.20	22.20	Right Tilt	0.082	0.248	0.330	0.221	0.195	0.196	0.551	0.721
DC_4A+n7A	Ant.0	0.183	23.50	23.50	Ant.1	0.254	17.95	17.70	Left Cheek	0.183	0.240	0.423	0.594	0.480	0.520	1.017	1.403
		0.086	23.50	23.50		0.402	17.95	17.70	Left Tilt	0.086	0.380	0.466	0.458	0.381	0.403	0.924	1.250
		0.090	23.50	23.50		0.502	17.95	17.70	Right Cheek	0.090	0.474	0.564	0.248	0.208	0.216	0.812	0.988
		0.085	23.50	23.50		0.769	17.95	17.70	Right Tilt	0.085	0.726	0.811	0.221	0.195	0.196	1.032	1.202
DC_4A+n7A	Ant.0	0.183	23.50	23.50	Ant.2	0.284	23.20	22.20	Left Cheek	0.183	0.226	0.409	0.594	0.480	0.520	1.003	1.389
		0.086	23.50	23.50		0.267	23.20	22.20	Left Tilt	0.086	0.212	0.298	0.458	0.381	0.403	0.756	1.062
		0.090	23.50	23.50		0.784	23.20	22.20	Right Cheek	0.090	0.623	0.713	0.248	0.208	0.216	0.961	1.137
		0.085	23.50	23.50		0.312	23.20	22.20	Right Tilt	0.085	0.248	0.333	0.221	0.195	0.196	0.554	0.724
DC_5A+n7A	Ant.0	0.186	24.50	24.50	Ant.1	0.254	17.95	17.70	Left Cheek	0.186	0.240	0.426	0.594	0.480	0.520	1.020	1.406
		0.098	24.50	24.50		0.402	17.95	17.70	Left Tilt	0.098	0.380	0.478	0.458	0.381	0.403	0.936	1.282
		0.156	24.50	24.50		0.502	17.95	17.70	Right Cheek	0.156	0.474	0.630	0.248	0.208	0.216	0.878	1.054
		0.075	24.50	24.50		0.769	17.95	17.70	Right Tilt	0.075	0.726	0.801	0.221	0.195	0.196	1.022	1.192

DC_5A+n7A	Ant.0	0.186	24.50	24.50	Ant.2	0.284	23.20	22.20	Left Cheek	0.186	0.226	0.412	0.594	0.460	0.520	1.006	1.392
		0.098	24.50	24.50		0.267	23.20	22.20	Left Tilt	0.098	0.212	0.310	0.458	0.381	0.403	0.768	1.094
		0.156	24.50	24.50		0.784	23.20	22.20	Right Cheek	0.156	0.623	0.779	0.248	0.208	0.216	1.027	1.203
		0.075	24.50	24.50		0.312	23.20	22.20	Right Tilt	0.075	0.248	0.323	0.221	0.195	0.196	0.544	0.714
DC_7A+n7A	Ant.0	0.172	23.50	23.50	Ant.1	0.254	17.95	17.70	Left Cheek	0.172	0.240	0.412	0.594	0.460	0.520	1.006	1.392
		0.132	23.50	23.50		0.402	17.95	17.70	Left Tilt	0.132	0.380	0.512	0.458	0.381	0.403	0.970	1.296
		0.331	23.50	23.50		0.502	17.95	17.70	Right Cheek	0.331	0.474	0.805	0.248	0.208	0.216	1.053	1.229
		0.199	23.50	23.50		0.769	17.95	17.70	Right Tilt	0.199	0.726	0.925	0.221	0.195	0.196	1.146	1.316
DC_7A+n7A	Ant.0	0.172	23.50	23.50	Ant.2	0.284	23.20	22.20	Left Cheek	0.172	0.226	0.398	0.594	0.460	0.520	0.992	1.378
		0.132	23.50	23.50		0.267	23.20	22.20	Left Tilt	0.132	0.212	0.344	0.458	0.381	0.403	0.802	1.128
		0.331	23.50	23.50		0.784	23.20	22.20	Right Cheek	0.331	0.623	0.954	0.248	0.208	0.216	1.202	1.378
		0.199	23.50	23.50		0.312	23.20	22.20	Right Tilt	0.199	0.248	0.447	0.221	0.195	0.196	0.668	0.838
DC_6A+n7A	Ant.0	0.217	24.00	23.50	Ant.1	0.254	17.95	17.70	Left Cheek	0.193	0.240	0.433	0.594	0.460	0.520	1.027	1.413
		0.098	24.00	23.50		0.402	17.95	17.70	Left Tilt	0.087	0.380	0.467	0.458	0.381	0.403	0.925	1.251
		0.111	24.00	23.50		0.502	17.95	17.70	Right Cheek	0.099	0.474	0.573	0.248	0.208	0.216	0.821	0.997
		0.106	24.00	23.50		0.769	17.95	17.70	Right Tilt	0.094	0.726	0.820	0.221	0.195	0.196	1.041	1.211
DC_6A+n7A	Ant.0	0.217	24.00	23.50	Ant.2	0.284	23.20	22.20	Left Cheek	0.193	0.226	0.419	0.594	0.460	0.520	1.013	1.399
		0.098	24.00	23.50		0.267	23.20	22.20	Left Tilt	0.087	0.212	0.299	0.458	0.381	0.403	0.757	1.083
		0.111	24.00	23.50		0.784	23.20	22.20	Right Cheek	0.099	0.623	0.722	0.248	0.208	0.216	0.970	1.146
		0.106	24.00	23.50		0.312	23.20	22.20	Right Tilt	0.094	0.248	0.342	0.221	0.195	0.196	0.563	0.733
DC_2A+n66A	Ant.0	0.148	23.50	23.50	Ant.1	0.480	18.20	17.20	Left Cheek	0.148	0.381	0.529	0.594	0.460	0.520	1.123	1.509
		0.075	23.50	23.50		0.561	18.20	17.20	Left Tilt	0.075	0.446	0.521	0.458	0.381	0.403	0.979	1.305
		0.129	23.50	23.50		0.997	18.20	17.20	Right Cheek	0.129	0.792	0.921	0.248	0.208	0.216	1.169	1.345
		0.082	23.50	23.50		1.187	18.20	17.20	Right Tilt	0.082	0.943	1.025	0.221	0.195	0.196	1.246	1.416
DC_2A+n66A	Ant.0	0.148	23.50	23.50	Ant.2	0.062	23.20	22.20	Left Cheek	0.148	0.049	0.197	0.594	0.460	0.520	0.791	1.177
		0.075	23.50	23.50		0.057	23.20	22.20	Left Tilt	0.075	0.045	0.120	0.458	0.381	0.403	0.578	0.904
		0.129	23.50	23.50		0.144	23.20	22.20	Right Cheek	0.129	0.114	0.243	0.248	0.208	0.216	0.491	0.667
		0.082	23.50	23.50		0.060	23.20	22.20	Right Tilt	0.082	0.048	0.130	0.221	0.195	0.196	0.351	0.521
DC_5A+n66A	Ant.0	0.186	24.50	24.50	Ant.1	0.480	18.20	17.20	Left Cheek	0.186	0.381	0.567	0.594	0.460	0.520	1.161	1.547
		0.098	24.50	24.50		0.561	18.20	17.20	Left Tilt	0.098	0.446	0.544	0.458	0.381	0.403	1.002	1.328
		0.156	24.50	24.50		0.997	18.20	17.20	Right Cheek	0.156	0.792	0.948	0.248	0.208	0.216	1.196	1.372
		0.075	24.50	24.50		1.187	18.20	17.20	Right Tilt	0.075	0.943	1.018	0.221	0.195	0.196	1.239	1.409
DC_5A+n66A	Ant.0	0.186	24.50	24.50	Ant.2	0.062	23.20	22.20	Left Cheek	0.186	0.049	0.235	0.594	0.460	0.520	0.829	1.215
		0.098	24.50	24.50		0.057	23.20	22.20	Left Tilt	0.098	0.045	0.143	0.458	0.381	0.403	0.601	0.927
		0.156	24.50	24.50		0.144	23.20	22.20	Right Cheek	0.156	0.114	0.270	0.248	0.208	0.216	0.518	0.694
		0.075	24.50	24.50		0.060	23.20	22.20	Right Tilt	0.075	0.048	0.123	0.221	0.195	0.196	0.344	0.514
DC_7A+n66A	Ant.0	0.172	23.50	23.50	Ant.1	0.480	18.20	17.20	Left Cheek	0.172	0.381	0.553	0.594	0.460	0.520	1.147	1.533
		0.132	23.50	23.50		0.561	18.20	17.20	Left Tilt	0.132	0.446	0.578	0.458	0.381	0.403	1.036	1.362
		0.331	23.50	23.50		0.997	18.20	17.20	Right Cheek	0.331	0.792	1.123	0.248	0.208	0.216	1.371	1.547
		0.199	23.50	23.50		1.187	18.20	17.20	Right Tilt	0.199	0.943	1.142	0.221	0.195	0.196	1.363	1.533
DC_7A+n66A	Ant.0	0.172	23.50	23.50	Ant.2	0.062	23.20	22.20	Left Cheek	0.172	0.049	0.221	0.594	0.460	0.520	0.815	1.201
		0.132	23.50	23.50		0.057	23.20	22.20	Left Tilt	0.132	0.045	0.177	0.458	0.381	0.403	0.635	0.961
		0.331	23.50	23.50		0.144	23.20	22.20	Right Cheek	0.331	0.114	0.445	0.248	0.208	0.216	0.693	0.969



		0.199	23.50	23.50		0.060	23.20	22.20	Right Tilt	0.199	0.048	0.247	0.221	0.195	0.196	0.468	0.638
DC_66A+n66A	Ant.0	0.217	24.00	23.50	Ant.1	0.480	18.20	17.20	Left Cheek	0.193	0.381	0.575	0.594	0.460	0.520	1.169	1.555
		0.098	24.00	23.50		0.561	18.20	17.20	Left Tilt	0.087	0.446	0.533	0.458	0.381	0.403	0.991	1.317
		0.111	24.00	23.50		0.997	18.20	17.20	Right Cheek	0.099	0.792	0.891	0.248	0.208	0.216	1.139	1.315
		0.106	24.00	23.50		1.187	18.20	17.20	Right Tilt	0.094	0.943	1.037	0.221	0.195	0.196	1.258	1.428
DC_66A+n66A	Ant.0	0.217	24.00	23.50	Ant.2	0.062	23.20	22.20	Left Cheek	0.193	0.049	0.243	0.594	0.460	0.520	0.837	1.223
		0.098	24.00	23.50		0.057	23.20	22.20	Left Tilt	0.087	0.045	0.133	0.458	0.381	0.403	0.591	0.917
		0.111	24.00	23.50		0.144	23.20	22.20	Right Cheek	0.099	0.114	0.213	0.248	0.208	0.216	0.461	0.637
		0.106	24.00	23.50		0.060	23.20	22.20	Right Tilt	0.094	0.048	0.142	0.221	0.195	0.196	0.363	0.533
DC_2A+n38A	Ant.0	0.148	23.50	23.50	Ant.1	0.463	19.20	18.20	Left Cheek	0.148	0.368	0.516	0.594	0.460	0.520	1.110	1.496
		0.075	23.50	23.50		0.614	19.20	18.20	Left Tilt	0.075	0.488	0.563	0.458	0.381	0.403	1.021	1.347
		0.129	23.50	23.50		0.778	19.20	18.20	Right Cheek	0.129	0.618	0.747	0.248	0.208	0.216	0.995	1.171
		0.082	23.50	23.50		1.183	19.20	18.20	Right Tilt	0.082	0.940	1.022	0.221	0.195	0.196	1.243	1.413
DC_2A+n38A	Ant.0	0.148	23.50	23.50	Ant.2	0.146	22.20	21.20	Left Cheek	0.148	0.116	0.264	0.594	0.460	0.520	0.858	1.244
		0.075	23.50	23.50		0.060	22.20	21.20	Left Tilt	0.075	0.048	0.123	0.458	0.381	0.403	0.581	0.907
		0.129	23.50	23.50		0.455	22.20	21.20	Right Cheek	0.129	0.361	0.490	0.248	0.208	0.216	0.738	0.914
		0.082	23.50	23.50		0.137	22.20	21.20	Right Tilt	0.082	0.109	0.191	0.221	0.195	0.196	0.412	0.562
DC_4A+n38A	Ant.0	0.183	23.50	23.50	Ant.1	0.463	19.20	18.20	Left Cheek	0.183	0.368	0.551	0.594	0.460	0.520	1.145	1.531
		0.086	23.50	23.50		0.614	19.20	18.20	Left Tilt	0.086	0.488	0.574	0.458	0.381	0.403	1.032	1.358
		0.090	23.50	23.50		0.778	19.20	18.20	Right Cheek	0.090	0.618	0.708	0.248	0.208	0.216	0.956	1.132
		0.085	23.50	23.50		1.183	19.20	18.20	Right Tilt	0.085	0.940	1.025	0.221	0.195	0.196	1.246	1.416
DC_4A+n38A	Ant.0	0.183	23.50	23.50	Ant.2	0.146	22.20	21.20	Left Cheek	0.183	0.116	0.299	0.594	0.460	0.520	0.893	1.279
		0.086	23.50	23.50		0.060	22.20	21.20	Left Tilt	0.086	0.048	0.134	0.458	0.381	0.403	0.592	0.918
		0.090	23.50	23.50		0.455	22.20	21.20	Right Cheek	0.090	0.361	0.451	0.248	0.208	0.216	0.699	0.875
		0.085	23.50	23.50		0.137	22.20	21.20	Right Tilt	0.085	0.109	0.194	0.221	0.195	0.196	0.415	0.585
DC_5A+n38A	Ant.0	0.186	24.50	24.50	Ant.1	0.463	19.20	18.20	Left Cheek	0.186	0.368	0.554	0.594	0.460	0.520	1.148	1.534
		0.098	24.50	24.50		0.614	19.20	18.20	Left Tilt	0.098	0.488	0.586	0.458	0.381	0.403	1.044	1.370
		0.156	24.50	24.50		0.778	19.20	18.20	Right Cheek	0.156	0.618	0.774	0.248	0.208	0.216	1.022	1.198
		0.075	24.50	24.50		1.183	19.20	18.20	Right Tilt	0.075	0.940	1.015	0.221	0.195	0.196	1.236	1.406
DC_5A+n38A	Ant.0	0.186	24.50	24.50	Ant.2	0.146	22.20	21.20	Left Cheek	0.186	0.116	0.302	0.594	0.460	0.520	0.896	1.282
		0.098	24.50	24.50		0.060	22.20	21.20	Left Tilt	0.098	0.048	0.146	0.458	0.381	0.403	0.604	0.930
		0.156	24.50	24.50		0.455	22.20	21.20	Right Cheek	0.156	0.361	0.517	0.248	0.208	0.216	0.765	0.941
		0.075	24.50	24.50		0.137	22.20	21.20	Right Tilt	0.075	0.109	0.184	0.221	0.195	0.196	0.405	0.575
DC_38A+n38A	Ant.0	0.158	24.00	24.00	Ant.1	0.463	19.20	18.20	Left Cheek	0.158	0.368	0.526	0.594	0.460	0.520	1.120	1.506
		0.128	24.00	24.00		0.614	19.20	18.20	Left Tilt	0.128	0.488	0.616	0.458	0.381	0.403	1.074	1.400
		0.303	24.00	24.00		0.778	19.20	18.20	Right Cheek	0.303	0.618	0.921	0.248	0.208	0.216	1.169	1.345
		0.168	24.00	24.00		1.183	19.20	18.20	Right Tilt	0.168	0.940	1.108	0.221	0.195	0.196	1.329	1.499
DC_38A+n38A	Ant.0	0.158	24.00	24.00	Ant.2	0.146	22.20	21.20	Left Cheek	0.158	0.116	0.274	0.594	0.460	0.520	0.868	1.254
		0.128	24.00	24.00		0.060	22.20	21.20	Left Tilt	0.128	0.048	0.176	0.458	0.381	0.403	0.634	0.960
		0.303	24.00	24.00		0.455	22.20	21.20	Right Cheek	0.303	0.361	0.664	0.248	0.208	0.216	0.912	1.088
		0.168	24.00	24.00		0.137	22.20	21.20	Right Tilt	0.168	0.109	0.277	0.221	0.195	0.196	0.498	0.668
DC_66A+n38A	Ant.0	0.217	24.00	23.50	Ant.1	0.463	19.20	18.20	Left Cheek	0.193	0.368	0.561	0.594	0.460	0.520	1.155	1.541
		0.098	24.00	23.50		0.614	19.20	18.20	Left Tilt	0.087	0.488	0.575	0.458	0.381	0.403	1.033	1.359

		0.111	24.00	23.50		0.778	19.20	18.20	Right Cheek	0.099	0.618	0.717	0.248	0.208	0.216	0.965	1.141
		0.106	24.00	23.50		1.183	19.20	18.20	Right Tilt	0.094	0.940	1.034	0.221	0.195	0.196	1.255	1.425
DC_66A+n38A	Ant.0	0.217	24.00	23.50	Ant.2	0.146	22.20	21.20	Left Cheek	0.193	0.116	0.309	0.594	0.460	0.520	0.903	1.289
		0.098	24.00	23.50		0.060	22.20	21.20	Left Tilt	0.087	0.048	0.135	0.458	0.381	0.403	0.593	0.919
		0.111	24.00	23.50		0.455	22.20	21.20	Right Cheek	0.099	0.361	0.460	0.248	0.208	0.216	0.708	0.884
		0.106	24.00	23.50		0.137	22.20	21.20	Right Tilt	0.094	0.109	0.203	0.221	0.195	0.196	0.424	0.594
DC_2A+n41A	Ant.0	0.148	23.50	23.50	Ant.1	0.350	17.95	16.95	Left Cheek	0.148	0.278	0.426	0.594	0.460	0.520	1.020	1.406
		0.075	23.50	23.50		0.456	17.95	16.95	Left Tilt	0.075	0.362	0.437	0.458	0.381	0.403	0.895	1.221
		0.129	23.50	23.50		0.509	17.95	16.95	Right Cheek	0.129	0.404	0.533	0.248	0.208	0.216	0.781	0.957
		0.082	23.50	23.50		0.958	17.95	16.95	Right Tilt	0.082	0.761	0.843	0.221	0.195	0.196	1.064	1.234
DC_2A+n41A	Ant.0	0.148	23.50	23.50	Ant.2	0.127	22.70	21.70	Left Cheek	0.148	0.101	0.249	0.594	0.460	0.520	0.843	1.229
		0.075	23.50	23.50		0.064	22.70	21.70	Left Tilt	0.075	0.051	0.126	0.458	0.381	0.403	0.584	0.910
		0.129	23.50	23.50		0.369	22.70	21.70	Right Cheek	0.129	0.293	0.422	0.248	0.208	0.216	0.670	0.846
		0.082	23.50	23.50		0.145	22.70	21.70	Right Tilt	0.082	0.115	0.197	0.221	0.195	0.196	0.418	0.588
DC_4A+n41A	Ant.0	0.183	23.50	23.50	Ant.1	0.350	17.95	16.95	Left Cheek	0.183	0.278	0.461	0.594	0.460	0.520	1.055	1.441
		0.086	23.50	23.50		0.456	17.95	16.95	Left Tilt	0.086	0.362	0.448	0.458	0.381	0.403	0.906	1.232
		0.090	23.50	23.50		0.509	17.95	16.95	Right Cheek	0.090	0.404	0.494	0.248	0.208	0.216	0.742	0.918
		0.085	23.50	23.50		0.958	17.95	16.95	Right Tilt	0.085	0.761	0.846	0.221	0.195	0.196	1.067	1.237
DC_4A+n41A	Ant.0	0.183	23.50	23.50	Ant.2	0.127	22.70	21.70	Left Cheek	0.183	0.101	0.284	0.594	0.460	0.520	0.878	1.264
		0.086	23.50	23.50		0.064	22.70	21.70	Left Tilt	0.086	0.051	0.137	0.458	0.381	0.403	0.595	0.921
		0.090	23.50	23.50		0.369	22.70	21.70	Right Cheek	0.090	0.293	0.383	0.248	0.208	0.216	0.631	0.807
		0.085	23.50	23.50		0.145	22.70	21.70	Right Tilt	0.085	0.115	0.200	0.221	0.195	0.196	0.421	0.591
DC_26A+n41A	Ant.0	0.190	24.00	24.00	Ant.1	0.350	17.95	16.95	Left Cheek	0.190	0.278	0.468	0.594	0.460	0.520	1.062	1.448
		0.107	24.00	24.00		0.456	17.95	16.95	Left Tilt	0.107	0.362	0.469	0.458	0.381	0.403	0.927	1.253
		0.154	24.00	24.00		0.509	17.95	16.95	Right Cheek	0.154	0.404	0.558	0.248	0.208	0.216	0.806	0.982
		0.082	24.00	24.00		0.958	17.95	16.95	Right Tilt	0.082	0.761	0.843	0.221	0.195	0.196	1.064	1.234
DC_26A+n41A	Ant.0	0.190	24.00	24.00	Ant.2	0.127	22.70	21.70	Left Cheek	0.190	0.101	0.291	0.594	0.460	0.520	0.885	1.271
		0.107	24.00	24.00		0.064	22.70	21.70	Left Tilt	0.107	0.051	0.158	0.458	0.381	0.403	0.616	0.942
		0.154	24.00	24.00		0.369	22.70	21.70	Right Cheek	0.154	0.293	0.447	0.248	0.208	0.216	0.695	0.871
		0.082	24.00	24.00		0.145	22.70	21.70	Right Tilt	0.082	0.115	0.197	0.221	0.195	0.196	0.418	0.588
DC_41A+n41A	Ant.0	0.183	24.50	24.50	Ant.1	0.350	17.95	16.95	Left Cheek	0.183	0.278	0.461	0.594	0.460	0.520	1.055	1.441
		0.138	24.50	24.50		0.456	17.95	16.95	Left Tilt	0.138	0.362	0.500	0.458	0.381	0.403	0.958	1.284
		0.338	24.50	24.50		0.509	17.95	16.95	Right Cheek	0.338	0.404	0.742	0.248	0.208	0.216	0.990	1.166
		0.193	24.50	24.50		0.958	17.95	16.95	Right Tilt	0.193	0.761	0.954	0.221	0.195	0.196	1.175	1.345
DC_41A+n41A	Ant.0	0.183	24.50	24.50	Ant.2	0.127	22.70	21.70	Left Cheek	0.183	0.101	0.284	0.594	0.460	0.520	0.878	1.264
		0.138	24.50	24.50		0.064	22.70	21.70	Left Tilt	0.138	0.051	0.189	0.458	0.381	0.403	0.647	0.973
		0.338	24.50	24.50		0.369	22.70	21.70	Right Cheek	0.338	0.293	0.631	0.248	0.208	0.216	0.879	1.055
		0.193	24.50	24.50		0.145	22.70	21.70	Right Tilt	0.193	0.115	0.308	0.221	0.195	0.196	0.529	0.699
DC_66A+n41A	Ant.0	0.217	24.00	23.50	Ant.1	0.350	17.95	16.95	Left Cheek	0.193	0.278	0.471	0.594	0.460	0.520	1.065	1.451
		0.098	24.00	23.50		0.456	17.95	16.95	Left Tilt	0.087	0.362	0.450	0.458	0.381	0.403	0.908	1.234
		0.111	24.00	23.50		0.509	17.95	16.95	Right Cheek	0.099	0.404	0.503	0.248	0.208	0.216	0.751	0.927
		0.106	24.00	23.50		0.958	17.95	16.95	Right Tilt	0.094	0.761	0.855	0.221	0.195	0.196	1.076	1.246
DC_66A+n41A	Ant.0	0.217	24.00	23.50	Ant.2	0.127	22.70	21.70	Left Cheek	0.193	0.101	0.294	0.594	0.460	0.520	0.888	1.274

		0.098	24.00	23.50		0.064	22.70	21.70	Left Tilt	0.087	0.051	0.138	0.458	0.381	0.403	0.596	0.922
		0.111	24.00	23.50		0.389	22.70	21.70	Right Cheek	0.099	0.293	0.392	0.248	0.208	0.216	0.640	0.816
		0.106	24.00	23.50		0.145	22.70	21.70	Right Tilt	0.094	0.115	0.210	0.221	0.195	0.198	0.431	0.601

Note:

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

2: The highest Summed 1g SAR is 1.555 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

### 13.2.10 Body-Worn Simultaneous Transmission SAR Evaluation for ENDC and WLAN and BT

Band	LTE Antenna	4G		ENDC	NR Antenna	SA		ENDC	Position	Stand alone SAR						SUM SAR	
		LTE SAR	LTE Max Power	LTE Max Power		NR SAR	NR Max Power	NR Max Power		LTE SAR	NR SAR	1	2	3	4	1+2	1+3+4
				State3				State3				State3	Level7	Level7/8	Bluetooth		
										ENDC (LTE+NR)	2.4GWIFI Max.	5GWIFI Max.					
DC_7A+n5A	Ant.0	0.119	21.50	20.00	Ant.1	0.121	24.20	24.20	Front Side 15mm	0.084	0.121	0.205	0.072	0.086	0.043	0.277	0.334
		0.191	21.50	20.00		0.175	24.20	24.20	Back Side 15mm	0.135	0.175	0.310	0.111	0.129	0.086	0.421	0.525
DC_7A+n5A	Ant.2	0.020	18.00	15.50	Ant.1	0.121	24.20	24.20	Front Side 15mm	0.011	0.121	0.132	0.072	0.086	0.043	0.204	0.261
		0.048	18.00	15.50		0.175	24.20	24.20	Back Side 15mm	0.027	0.175	0.202	0.111	0.129	0.086	0.313	0.417
DC_66A+n5A	Ant.0	0.101	21.00	18.50	Ant.1	0.121	24.20	24.20	Front Side 15mm	0.057	0.121	0.178	0.072	0.086	0.043	0.250	0.307
		0.153	21.00	18.50		0.175	24.20	24.20	Back Side 15mm	0.086	0.175	0.261	0.111	0.129	0.086	0.372	0.476
DC_66A+n5A	Ant.2	0.015	22.00	19.50	Ant.1	0.121	24.20	24.20	Front Side 15mm	0.008	0.121	0.129	0.072	0.086	0.043	0.201	0.258
		0.032	22.00	19.50		0.175	24.20	24.20	Back Side 15mm	0.018	0.175	0.193	0.111	0.129	0.086	0.304	0.408
DC_2A+n7A	Ant.0	0.213	22.00	19.50	Ant.1	0.068	19.70	18.45	Front Side 15mm	0.120	0.051	0.171	0.072	0.086	0.043	0.243	0.300
		0.315	22.00	19.50		0.153	19.70	18.45	Back Side 15mm	0.177	0.115	0.292	0.111	0.129	0.086	0.403	0.507
DC_2A+n7A	Ant.0	0.213	22.00	19.50	Ant.2	0.049	19.95	19.45	Front Side 15mm	0.120	0.044	0.163	0.072	0.086	0.043	0.235	0.292
		0.315	22.00	19.50		0.089	19.95	19.45	Back Side 15mm	0.177	0.079	0.256	0.111	0.129	0.086	0.367	0.471
DC_4A+n7A	Ant.0	0.185	21.75	19.50	Ant.1	0.068	19.70	18.45	Front Side 15mm	0.110	0.051	0.161	0.072	0.086	0.043	0.233	0.290
		0.296	21.75	19.50		0.153	19.70	18.45	Back Side 15mm	0.176	0.115	0.291	0.111	0.129	0.086	0.402	0.506
DC_4A+n7A	Ant.0	0.185	21.75	19.50	Ant.2	0.049	19.95	19.45	Front Side 15mm	0.110	0.044	0.154	0.072	0.086	0.043	0.226	0.283
		0.296	21.75	19.50		0.089	19.95	19.45	Back Side 15mm	0.176	0.079	0.256	0.111	0.129	0.086	0.367	0.471
DC_5A+n7A	Ant.0	0.116	24.50	22.75	Ant.1	0.068	19.70	18.45	Front Side 15mm	0.078	0.051	0.129	0.072	0.086	0.043	0.201	0.258
		0.163	24.50	22.75		0.153	19.70	18.45	Back Side 15mm	0.109	0.115	0.224	0.111	0.129	0.086	0.335	0.439

DC_5A+n7A	Ant.0	0.116	24.50	22.75	Ant.2	0.049	19.95	19.45	Front Side 15mm	0.078	0.044	0.121	0.072	0.086	0.043	0.193	0.250
		0.163	24.50	22.75		0.089	19.95	19.45	Back Side 15mm	0.109	0.079	0.188	0.111	0.129	0.086	0.299	0.403
DC_7A+n7A	Ant.0	0.119	21.50	20.00	Ant.1	0.068	19.70	18.45	Front Side 15mm	0.084	0.051	0.135	0.072	0.086	0.043	0.207	0.264
		0.191	21.50	20.00		0.153	19.70	18.45	Back Side 15mm	0.135	0.115	0.250	0.111	0.129	0.086	0.361	0.465
DC_7A+n7A	Ant.0	0.119	21.50	20.00	Ant.2	0.049	19.95	19.45	Front Side 15mm	0.084	0.044	0.128	0.072	0.086	0.043	0.200	0.257
		0.191	21.50	20.00		0.089	19.95	19.45	Back Side 15mm	0.135	0.079	0.215	0.111	0.129	0.086	0.326	0.430
DC_66A+n7A	Ant.0	0.101	21.00	18.50	Ant.1	0.068	19.70	18.45	Front Side 15mm	0.057	0.051	0.108	0.072	0.086	0.043	0.180	0.237
		0.153	21.00	18.50		0.153	19.70	18.45	Back Side 15mm	0.086	0.115	0.201	0.111	0.129	0.086	0.312	0.416
DC_66A+n7A	Ant.0	0.101	21.00	18.50	Ant.2	0.049	19.95	19.45	Front Side 15mm	0.057	0.044	0.100	0.072	0.086	0.043	0.172	0.229
		0.153	21.00	18.50		0.089	19.95	19.45	Back Side 15mm	0.086	0.079	0.165	0.111	0.129	0.086	0.276	0.380
DC_2A+n66A	Ant.0	0.213	22.00	19.50	Ant.1	0.245	21.70	19.70	Front Side 15mm	0.120	0.155	0.274	0.072	0.086	0.043	0.346	0.403
		0.315	22.00	19.50		0.323	21.70	19.70	Back Side 15mm	0.177	0.204	0.381	0.111	0.129	0.086	0.492	0.596
DC_2A+n66A	Ant.0	0.213	22.00	19.50	Ant.2	0.013	23.20	22.20	Front Side 15mm	0.120	0.010	0.130	0.072	0.086	0.043	0.202	0.259
		0.315	22.00	19.50		0.031	23.20	22.20	Back Side 15mm	0.177	0.025	0.202	0.111	0.129	0.086	0.313	0.417
DC_5A+n66A	Ant.0	0.116	24.50	22.75	Ant.1	0.245	21.70	19.70	Front Side 15mm	0.078	0.155	0.232	0.072	0.086	0.043	0.304	0.361
		0.163	24.50	22.75		0.323	21.70	19.70	Back Side 15mm	0.109	0.204	0.313	0.111	0.129	0.086	0.424	0.528
DC_5A+n66A	Ant.0	0.116	24.50	22.75	Ant.2	0.013	23.20	22.20	Front Side 15mm	0.078	0.010	0.088	0.072	0.086	0.043	0.160	0.217
		0.163	24.50	22.75		0.031	23.20	22.20	Back Side 15mm	0.109	0.025	0.134	0.111	0.129	0.086	0.245	0.349
DC_7A+n66A	Ant.0	0.119	21.50	20.00	Ant.1	0.245	21.70	19.70	Front Side 15mm	0.084	0.155	0.239	0.072	0.086	0.043	0.311	0.368
		0.191	21.50	20.00		0.323	21.70	19.70	Back Side 15mm	0.135	0.204	0.339	0.111	0.129	0.086	0.450	0.554
DC_7A+n66A	Ant.0	0.119	21.50	20.00	Ant.2	0.013	23.20	22.20	Front Side 15mm	0.084	0.010	0.095	0.072	0.086	0.043	0.167	0.224
		0.191	21.50	20.00		0.031	23.20	22.20	Back Side 15mm	0.135	0.025	0.160	0.111	0.129	0.086	0.271	0.375

DC_66A+n66A	Ant.0	0.101	21.00	18.50	Ant.1	0.245	21.70	19.70	Front Side 15mm	0.057	0.155	0.211	0.072	0.086	0.043	0.283	0.340
		0.153	21.00	18.50		0.323	21.70	19.70	Back Side 15mm	0.086	0.204	0.290	0.111	0.129	0.086	0.401	0.505
DC_66A+n66A	Ant.0	0.101	21.00	18.50	Ant.2	0.013	23.20	22.20	Front Side 15mm	0.057	0.010	0.067	0.072	0.086	0.043	0.139	0.196
		0.153	21.00	18.50		0.031	23.20	22.20	Back Side 15mm	0.086	0.025	0.111	0.111	0.129	0.086	0.222	0.326
DC_2A+n38A	Ant.0	0.213	22.00	19.50	Ant.1	0.104	20.20	19.20	Front Side 15mm	0.120	0.083	0.202	0.072	0.086	0.043	0.274	0.331
		0.315	22.00	19.50		0.300	20.20	19.20	Back Side 15mm	0.177	0.238	0.415	0.111	0.129	0.086	0.526	0.630
DC_2A+n38A	Ant.0	0.213	22.00	19.50	Ant.2	0.053	20.20	18.20	Front Side 15mm	0.120	0.033	0.153	0.072	0.086	0.043	0.225	0.282
		0.315	22.00	19.50		0.114	20.20	18.20	Back Side 15mm	0.177	0.072	0.249	0.111	0.129	0.086	0.360	0.464
DC_4A+n38A	Ant.0	0.185	21.75	19.50	Ant.1	0.104	20.20	19.20	Front Side 15mm	0.110	0.083	0.193	0.072	0.086	0.043	0.265	0.322
		0.296	21.75	19.50		0.300	20.20	19.20	Back Side 15mm	0.176	0.238	0.415	0.111	0.129	0.086	0.526	0.630
DC_4A+n38A	Ant.0	0.185	21.75	19.50	Ant.2	0.053	20.20	18.20	Front Side 15mm	0.110	0.033	0.144	0.072	0.086	0.043	0.216	0.273
		0.296	21.75	19.50		0.114	20.20	18.20	Back Side 15mm	0.176	0.072	0.248	0.111	0.129	0.086	0.359	0.463
DC_5A+n38A	Ant.0	0.116	24.50	22.75	Ant.1	0.104	20.20	19.20	Front Side 15mm	0.078	0.083	0.160	0.072	0.086	0.043	0.232	0.289
		0.163	24.50	22.75		0.300	20.20	19.20	Back Side 15mm	0.109	0.238	0.347	0.111	0.129	0.086	0.458	0.562
DC_5A+n38A	Ant.0	0.116	24.50	22.75	Ant.2	0.053	20.20	18.20	Front Side 15mm	0.078	0.033	0.111	0.072	0.086	0.043	0.183	0.240
		0.163	24.50	22.75		0.114	20.20	18.20	Back Side 15mm	0.109	0.072	0.181	0.111	0.129	0.086	0.292	0.396
DC_38A+n38A	Ant.0	0.180	24.00	22.75	Ant.1	0.104	20.20	19.20	Front Side 15mm	0.135	0.083	0.218	0.072	0.086	0.043	0.290	0.347
		0.280	24.00	22.75		0.300	20.20	19.20	Back Side 15mm	0.210	0.238	0.448	0.111	0.129	0.086	0.559	<b>0.663</b>
DC_38A+n38A	Ant.0	0.180	24.00	22.75	Ant.2	0.053	20.20	18.20	Front Side 15mm	0.135	0.033	0.168	0.072	0.086	0.043	0.240	0.297
		0.280	24.00	22.75		0.114	20.20	18.20	Back Side 15mm	0.210	0.072	0.282	0.111	0.129	0.086	0.393	0.497
DC_66A+n38A	Ant.0	0.101	21.00	18.50	Ant.1	0.104	20.20	19.20	Front Side 15mm	0.057	0.083	0.139	0.072	0.086	0.043	0.211	0.268
		0.153	21.00	18.50		0.300	20.20	19.20	Back Side 15mm	0.086	0.238	0.324	0.111	0.129	0.086	0.435	0.539

DC_66A+n38A	Ant.0	0.101	21.00	18.50	Ant.2	0.053	20.20	18.20	Front Side 15mm	0.057	0.033	0.090	0.072	0.086	0.043	0.162	0.219
		0.153	21.00	18.50		0.114	20.20	18.20	Back Side 15mm	0.086	0.072	0.158	0.111	0.129	0.086	0.269	0.373
DC_2A+n41A	Ant.0	0.213	22.00	19.50	Ant.1	0.105	19.95	17.95	Front Side 15mm	0.120	0.066	0.186	0.072	0.086	0.043	0.258	0.315
		0.315	22.00	19.50		0.280	19.95	17.95	Back Side 15mm	0.177	0.177	0.354	0.111	0.129	0.086	0.465	0.569
DC_2A+n41A	Ant.0	0.213	22.00	19.50	Ant.2	0.038	19.45	17.45	Front Side 15mm	0.120	0.024	0.144	0.072	0.086	0.043	0.216	0.273
		0.315	22.00	19.50		0.084	19.45	17.45	Back Side 15mm	0.177	0.053	0.230	0.111	0.129	0.086	0.341	0.445
DC_4A+n41A	Ant.0	0.185	21.75	19.50	Ant.1	0.105	19.95	17.95	Front Side 15mm	0.110	0.066	0.176	0.072	0.086	0.043	0.248	0.305
		0.296	21.75	19.50		0.280	19.95	17.95	Back Side 15mm	0.176	0.177	0.353	0.111	0.129	0.086	0.464	0.568
DC_4A+n41A	Ant.0	0.185	21.75	19.50	Ant.2	0.038	19.45	17.45	Front Side 15mm	0.110	0.024	0.134	0.072	0.086	0.043	0.206	0.263
		0.296	21.75	19.50		0.084	19.45	17.45	Back Side 15mm	0.176	0.053	0.229	0.111	0.129	0.086	0.340	0.444
DC_26A+n41A	Ant.0	0.113	24.00	21.50	Ant.1	0.105	19.95	17.95	Front Side 15mm	0.064	0.066	0.130	0.072	0.086	0.043	0.202	0.259
		0.163	24.00	21.50		0.280	19.95	17.95	Back Side 15mm	0.092	0.177	0.268	0.111	0.129	0.086	0.379	0.483
DC_26A+n41A	Ant.0	0.113	24.00	21.50	Ant.2	0.038	19.45	17.45	Front Side 15mm	0.064	0.024	0.088	0.072	0.086	0.043	0.160	0.217
		0.163	24.00	21.50		0.084	19.45	17.45	Back Side 15mm	0.092	0.053	0.145	0.111	0.129	0.086	0.256	0.360
DC_41A+n41A	Ant.0	0.155	23.50	23.00	Ant.1	0.105	19.95	17.95	Front Side 15mm	0.138	0.066	0.204	0.072	0.086	0.043	0.276	0.333
		0.255	23.50	23.00		0.280	19.95	17.95	Back Side 15mm	0.227	0.177	0.404	0.111	0.129	0.086	0.515	0.619
DC_41A+n41A	Ant.0	0.155	23.50	23.00	Ant.2	0.038	19.45	17.45	Front Side 15mm	0.138	0.024	0.162	0.072	0.086	0.043	0.234	0.291
		0.255	23.50	23.00		0.084	19.45	17.45	Back Side 15mm	0.227	0.053	0.280	0.111	0.129	0.086	0.391	0.495
DC_66A+n41A	Ant.0	0.101	21.00	18.50	Ant.1	0.105	19.95	17.95	Front Side 15mm	0.057	0.066	0.123	0.072	0.086	0.043	0.195	0.252
		0.153	21.00	18.50		0.280	19.95	17.95	Back Side 15mm	0.086	0.177	0.263	0.111	0.129	0.086	0.374	0.478
DC_66A+n41A	Ant.0	0.101	21.00	18.50	Ant.2	0.038	19.45	17.45	Front Side 15mm	0.057	0.024	0.081	0.072	0.086	0.043	0.153	0.210
		0.153	21.00	18.50		0.084	19.45	17.45	Back Side 15mm	0.086	0.053	0.139	0.111	0.129	0.086	0.250	0.354

Note:

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

2: The highest Summed 1g SAR is 0.663 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.



### 13.2.11 Hotspot Simultaneous Transmission SAR Evaluation for ENDC and WLAN and BT

Band	LTE Antenna	4G		ENDC	NR Antenna	SA		ENDC	Position	Stand alone SAR						SUM SAR	
		LTE SAR	LTE Max Power	LTE Max Power		NR SAR	NR Max Power	NR Max Power		LTE SAR	NR SAR	1	2	3	4	1+2	1+3+4
												ENDC (LTE+NR)	2 4G/WIFI Max.	5G/WIFI Max.	Bluetooth		
		State3	State3	State3		Level7	Level7/8										
DC_7A+n5A	Ant.0	0.348	21.50	20.00	Ant.1	0.215	24.20	24.20	Front Side 10mm	0.246	0.215	0.461	0.106	0.210	0.078	0.567	0.749
		0.561	21.50	20.00		0.350	24.20	24.20	Back Side 10mm	0.397	0.350	0.747	0.171	0.294	0.136	0.918	1.177
		0.338	21.50	20.00		0.117	24.20	24.20	Left Edge 10mm	0.239	0.117	0.356	0.082	0.277	0.060	0.438	0.693
		0.091	21.50	20.00		0.159	24.20	24.20	Right Edge 10mm	0.064	0.159	0.223	0.000	0.000	0.000	0.223	0.223
		0.000	21.50	20.00		0.292	24.20	24.20	Top Edge 10mm	0.000	0.292	0.292	0.136	0.250	0.094	0.428	0.636
		0.402	21.50	20.00		0.000	24.20	24.20	Bottom Edge 10mm	0.285	0.000	0.285	0.000	0.000	0.000	0.285	0.285
DC_7A+n5A	Ant.2	0.042	18.00	15.50	Ant.1	0.215	24.20	24.20	Front Side 10mm	0.024	0.215	0.239	0.106	0.210	0.078	0.345	0.527
		0.088	18.00	15.50		0.350	24.20	24.20	Back Side 10mm	0.049	0.350	0.399	0.171	0.294	0.136	0.570	0.829
		0.000	18.00	15.50		0.117	24.20	24.20	Left Edge 10mm	0.000	0.117	0.117	0.082	0.277	0.060	0.199	0.454
		0.065	18.00	15.50		0.159	24.20	24.20	Right Edge 10mm	0.037	0.159	0.196	0.000	0.000	0.000	0.196	0.196
		0.000	18.00	15.50		0.292	24.20	24.20	Top Edge 10mm	0.000	0.292	0.292	0.136	0.250	0.094	0.428	0.636
		0.000	18.00	15.50		0.000	24.20	24.20	Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_6A+n5A	Ant.0	0.251	21.00	18.50	Ant.1	0.215	24.20	24.20	Front Side 10mm	0.141	0.215	0.356	0.106	0.210	0.078	0.462	0.644
		0.418	21.00	18.50		0.350	24.20	24.20	Back Side 10mm	0.235	0.350	0.585	0.171	0.294	0.136	0.756	1.015
		0.109	21.00	18.50		0.117	24.20	24.20	Left Edge 10mm	0.061	0.117	0.178	0.082	0.277	0.060	0.260	0.515
		0.059	21.00	18.50		0.159	24.20	24.20	Right Edge 10mm	0.033	0.159	0.192	0.000	0.000	0.000	0.192	0.192
		0.000	21.00	18.50		0.292	24.20	24.20	Top Edge 10mm	0.000	0.292	0.292	0.136	0.250	0.094	0.428	0.636
		0.536	21.00	18.50		0.000	24.20	24.20	Bottom Edge 10mm	0.301	0.000	0.301	0.000	0.000	0.000	0.301	0.301
DC_6A+n5A	Ant.2	0.031	22.00	19.50	Ant.1	0.215	24.20	24.20	Front Side 10mm	0.017	0.215	0.232	0.106	0.210	0.078	0.338	0.520
		0.079	22.00	19.50		0.350	24.20	24.20	Back Side 10mm	0.044	0.350	0.394	0.171	0.294	0.136	0.565	0.824
		0.000	22.00	19.50		0.117	24.20	24.20	Left Edge 10mm	0.000	0.117	0.117	0.082	0.277	0.060	0.199	0.454
		0.103	22.00	19.50		0.159	24.20	24.20	Right Edge 10mm	0.058	0.159	0.217	0.000	0.000	0.000	0.217	0.217
		0.000	22.00	19.50		0.292	24.20	24.20	Top Edge 10mm	0.000	0.292	0.292	0.136	0.250	0.094	0.428	0.636
		0.000	22.00	19.50		0.000	24.20	24.20	Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_2A+n7A	Ant.0	0.336	22.00	19.50	Ant.1	0.171	19.70	18.45	Front Side 10mm	0.189	0.128	0.317	0.106	0.210	0.078	0.423	0.605
		0.540	22.00	19.50		0.441	19.70	18.45	Back Side 10mm	0.304	0.331	0.634	0.171	0.294	0.136	0.805	1.064
		0.163	22.00	19.50		0.004	19.70	18.45	Left Edge 10mm	0.092	0.003	0.095	0.082	0.277	0.060	0.177	0.432
		0.088	22.00	19.50		0.084	19.70	18.45	Right Edge 10mm	0.049	0.063	0.112	0.000	0.000	0.000	0.112	0.112
		0.000	22.00	19.50		0.564	19.70	18.45	Top Edge 10mm	0.000	0.423	0.423	0.136	0.250	0.094	0.559	0.767
		0.748	22.00	19.50		0.000	19.70	18.45	Bottom Edge 10mm	0.421	0.000	0.421	0.000	0.000	0.000	0.421	0.421
DC_2A+n7A	Ant.0	0.336	22.00	19.50	Ant.2	0.063	19.95	19.45	Front Side 10mm	0.189	0.056	0.245	0.106	0.210	0.078	0.351	0.533
		0.540	22.00	19.50		0.142	19.95	19.45	Back Side 10mm	0.304	0.127	0.430	0.171	0.294	0.136	0.601	0.860
		0.163	22.00	19.50		0.000	19.95	19.45	Left Edge 10mm	0.092	0.000	0.092	0.082	0.277	0.060	0.174	0.429
		0.088	22.00	19.50		0.089	19.95	19.45	Right Edge 10mm	0.049	0.079	0.129	0.000	0.000	0.000	0.129	0.129
		0.000	22.00	19.50		0.000	19.95	19.45	Top Edge 10mm	0.000	0.000	0.000	0.136	0.250	0.094	0.136	0.344
		0.748	22.00	19.50		0.000	19.95	19.45	Bottom Edge 10mm	0.421	0.000	0.421	0.000	0.000	0.000	0.421	0.421

DC_4A+n7A	Ant.0	0.336	21.75	19.50	Ant.1	0.171	19.70	18.45	Front Side 10mm	0.200	0.128	0.328	0.106	0.210	0.078	0.434	0.616
		0.555	21.75	19.50		0.441	19.70	18.45	Back Side 10mm	0.331	0.331	0.661	0.171	0.294	0.136	0.832	1.091
		0.139	21.75	19.50		0.004	19.70	18.45	Left Edge 10mm	0.083	0.003	0.086	0.082	0.277	0.060	0.168	0.423
		0.103	21.75	19.50		0.084	19.70	18.45	Right Edge 10mm	0.061	0.063	0.124	0.000	0.000	0.000	0.124	0.124
		0.000	21.75	19.50		0.564	19.70	18.45	Top Edge 10mm	0.000	0.423	0.423	0.136	0.250	0.094	0.559	0.767
		0.708	21.75	19.50		0.000	19.70	18.45	Bottom Edge 10mm	0.422	0.000	0.422	0.000	0.000	0.000	0.422	0.422
DC_4A+n7A	Ant.0	0.336	21.75	19.50	Ant.2	0.063	19.95	19.45	Front Side 10mm	0.200	0.056	0.256	0.106	0.210	0.078	0.362	0.544
		0.555	21.75	19.50		0.142	19.95	19.45	Back Side 10mm	0.331	0.127	0.457	0.171	0.294	0.136	0.628	0.867
		0.139	21.75	19.50		0.000	19.95	19.45	Left Edge 10mm	0.083	0.000	0.083	0.082	0.277	0.060	0.165	0.420
		0.103	21.75	19.50		0.089	19.95	19.45	Right Edge 10mm	0.061	0.079	0.141	0.000	0.000	0.000	0.141	0.141
		0.000	21.75	19.50		0.000	19.95	19.45	Top Edge 10mm	0.000	0.000	0.000	0.136	0.250	0.094	0.136	0.344
		0.708	21.75	19.50		0.000	19.95	19.45	Bottom Edge 10mm	0.422	0.000	0.422	0.000	0.000	0.000	0.422	0.422
DC_5A+n7A	Ant.0	0.161	24.50	22.75	Ant.1	0.171	19.70	18.45	Front Side 10mm	0.108	0.128	0.236	0.106	0.210	0.078	0.342	0.524
		0.268	24.50	22.75		0.441	19.70	18.45	Back Side 10mm	0.179	0.331	0.510	0.171	0.294	0.136	0.681	0.940
		0.098	24.50	22.75		0.004	19.70	18.45	Left Edge 10mm	0.065	0.003	0.068	0.082	0.277	0.060	0.150	0.405
		0.168	24.50	22.75		0.084	19.70	18.45	Right Edge 10mm	0.112	0.063	0.175	0.000	0.000	0.000	0.175	0.175
		0.000	24.50	22.75		0.564	19.70	18.45	Top Edge 10mm	0.000	0.423	0.423	0.136	0.250	0.094	0.559	0.767
		0.229	24.50	22.75		0.000	19.70	18.45	Bottom Edge 10mm	0.153	0.000	0.153	0.000	0.000	0.000	0.153	0.153
DC_5A+n7A	Ant.0	0.161	24.50	22.75	Ant.2	0.063	19.95	19.45	Front Side 10mm	0.108	0.056	0.164	0.106	0.210	0.078	0.270	0.452
		0.268	24.50	22.75		0.142	19.95	19.45	Back Side 10mm	0.179	0.127	0.306	0.171	0.294	0.136	0.477	0.736
		0.098	24.50	22.75		0.000	19.95	19.45	Left Edge 10mm	0.065	0.000	0.065	0.082	0.277	0.060	0.147	0.402
		0.168	24.50	22.75		0.089	19.95	19.45	Right Edge 10mm	0.112	0.079	0.192	0.000	0.000	0.000	0.192	0.192
		0.000	24.50	22.75		0.000	19.95	19.45	Top Edge 10mm	0.000	0.000	0.000	0.136	0.250	0.094	0.136	0.344
		0.229	24.50	22.75		0.000	19.95	19.45	Bottom Edge 10mm	0.153	0.000	0.153	0.000	0.000	0.000	0.153	0.153
DC_7A+n7A	Ant.0	0.348	21.50	20.00	Ant.1	0.171	19.70	18.45	Front Side 10mm	0.246	0.128	0.375	0.106	0.210	0.078	0.481	0.663
		0.561	21.50	20.00		0.441	19.70	18.45	Back Side 10mm	0.397	0.331	0.728	0.171	0.294	0.136	0.899	1.158
		0.338	21.50	20.00		0.004	19.70	18.45	Left Edge 10mm	0.239	0.003	0.242	0.082	0.277	0.060	0.324	0.579
		0.091	21.50	20.00		0.084	19.70	18.45	Right Edge 10mm	0.064	0.063	0.127	0.000	0.000	0.000	0.127	0.127
		0.000	21.50	20.00		0.564	19.70	18.45	Top Edge 10mm	0.000	0.423	0.423	0.136	0.250	0.094	0.559	0.767
		0.402	21.50	20.00		0.000	19.70	18.45	Bottom Edge 10mm	0.285	0.000	0.285	0.000	0.000	0.000	0.285	0.285
DC_7A+n7A	Ant.0	0.348	21.50	20.00	Ant.2	0.063	19.95	19.45	Front Side 10mm	0.246	0.056	0.303	0.106	0.210	0.078	0.409	0.591
		0.561	21.50	20.00		0.142	19.95	19.45	Back Side 10mm	0.397	0.127	0.524	0.171	0.294	0.136	0.695	0.954
		0.338	21.50	20.00		0.000	19.95	19.45	Left Edge 10mm	0.239	0.000	0.239	0.082	0.277	0.060	0.321	0.576
		0.091	21.50	20.00		0.089	19.95	19.45	Right Edge 10mm	0.064	0.079	0.144	0.000	0.000	0.000	0.144	0.144
		0.000	21.50	20.00		0.000	19.95	19.45	Top Edge 10mm	0.000	0.000	0.000	0.136	0.250	0.094	0.136	0.344
		0.402	21.50	20.00		0.000	19.95	19.45	Bottom Edge 10mm	0.285	0.000	0.285	0.000	0.000	0.000	0.285	0.285
DC_86A+n7A	Ant.0	0.251	21.00	18.50	Ant.1	0.171	19.70	18.45	Front Side 10mm	0.141	0.128	0.269	0.106	0.210	0.078	0.375	0.557
		0.418	21.00	18.50		0.441	19.70	18.45	Back Side 10mm	0.235	0.331	0.566	0.171	0.294	0.136	0.737	0.996
		0.109	21.00	18.50		0.004	19.70	18.45	Left Edge 10mm	0.061	0.003	0.064	0.082	0.277	0.060	0.146	0.401
		0.059	21.00	18.50		0.084	19.70	18.45	Right Edge 10mm	0.033	0.063	0.096	0.000	0.000	0.000	0.096	0.096
		0.000	21.00	18.50		0.564	19.70	18.45	Top Edge 10mm	0.000	0.423	0.423	0.136	0.250	0.094	0.559	0.767
		0.536	21.00	18.50		0.000	19.70	18.45	Bottom Edge 10mm	0.301	0.000	0.301	0.000	0.000	0.000	0.301	0.301
DC_86A+n7A	Ant.0	0.251	21.00	18.50	Ant.2	0.063	19.95	19.45	Front Side 10mm	0.141	0.056	0.197	0.106	0.210	0.078	0.303	0.485

		0.418	21.00	18.50		0.142	19.95	19.45	Back Side 10mm	0.235	0.127	0.362	0.171	0.294	0.136	0.533	0.792
		0.109	21.00	18.50		0.000	19.95	19.45	Left Edge 10mm	0.061	0.000	0.061	0.082	0.277	0.060	0.143	0.398
		0.059	21.00	18.50		0.089	19.95	19.45	Right Edge 10mm	0.033	0.079	0.112	0.000	0.000	0.000	0.112	0.112
		0.000	21.00	18.50		0.000	19.95	19.45	Top Edge 10mm	0.000	0.000	0.000	0.136	0.250	0.094	0.136	0.344
		0.536	21.00	18.50		0.000	19.95	19.45	Bottom Edge 10mm	0.301	0.000	0.301	0.000	0.000	0.000	0.301	0.301
DC_2A+n66A	Ant.0	0.336	22.00	19.50	Ant.1	0.478	21.70	19.70	Front Side 10mm	0.189	0.302	0.491	0.106	0.210	0.078	0.597	0.779
		0.540	22.00	19.50		0.646	21.70	19.70	Back Side 10mm	0.304	0.408	0.711	0.171	0.294	0.136	0.882	1.141
		0.163	22.00	19.50		0.057	21.70	19.70	Left Edge 10mm	0.092	0.036	0.128	0.082	0.277	0.060	0.210	0.465
		0.088	22.00	19.50		0.115	21.70	19.70	Right Edge 10mm	0.049	0.073	0.122	0.000	0.000	0.000	0.122	0.122
		0.000	22.00	19.50		0.957	21.70	19.70	Top Edge 10mm	0.000	0.604	0.604	0.136	0.250	0.094	0.740	0.948
		0.748	22.00	19.50		0.000	21.70	19.70	Bottom Edge 10mm	0.421	0.000	0.421	0.000	0.000	0.000	0.421	0.421
DC_2A+n66A	Ant.0	0.336	22.00	19.50	Ant.2	0.028	23.20	22.20	Front Side 10mm	0.189	0.022	0.211	0.106	0.210	0.078	0.317	0.499
		0.540	22.00	19.50		0.074	23.20	22.20	Back Side 10mm	0.304	0.059	0.362	0.171	0.294	0.136	0.533	0.792
		0.163	22.00	19.50		0.000	23.20	22.20	Left Edge 10mm	0.092	0.000	0.092	0.082	0.277	0.060	0.174	0.429
		0.088	22.00	19.50		0.088	23.20	22.20	Right Edge 10mm	0.049	0.070	0.119	0.000	0.000	0.000	0.119	0.119
		0.000	22.00	19.50		0.000	23.20	22.20	Top Edge 10mm	0.000	0.000	0.000	0.136	0.250	0.094	0.136	0.344
		0.748	22.00	19.50		0.000	23.20	22.20	Bottom Edge 10mm	0.421	0.000	0.421	0.000	0.000	0.000	0.421	0.421
DC_5A+n66A	Ant.0	0.161	24.50	22.75	Ant.1	0.478	21.70	19.70	Front Side 10mm	0.108	0.302	0.409	0.106	0.210	0.078	0.515	0.697
		0.268	24.50	22.75		0.646	21.70	19.70	Back Side 10mm	0.179	0.408	0.587	0.171	0.294	0.136	0.758	1.017
		0.098	24.50	22.75		0.057	21.70	19.70	Left Edge 10mm	0.065	0.036	0.101	0.082	0.277	0.060	0.183	0.438
		0.168	24.50	22.75		0.115	21.70	19.70	Right Edge 10mm	0.112	0.073	0.185	0.000	0.000	0.000	0.185	0.185
		0.000	24.50	22.75		0.957	21.70	19.70	Top Edge 10mm	0.000	0.604	0.604	0.136	0.250	0.094	0.740	0.948
		0.229	24.50	22.75		0.000	21.70	19.70	Bottom Edge 10mm	0.153	0.000	0.153	0.000	0.000	0.000	0.153	0.153
DC_5A+n66A	Ant.0	0.161	24.50	22.75	Ant.2	0.028	23.20	22.20	Front Side 10mm	0.108	0.022	0.130	0.106	0.210	0.078	0.236	0.418
		0.268	24.50	22.75		0.074	23.20	22.20	Back Side 10mm	0.179	0.059	0.238	0.171	0.294	0.136	0.409	0.688
		0.098	24.50	22.75		0.000	23.20	22.20	Left Edge 10mm	0.065	0.000	0.065	0.082	0.277	0.060	0.147	0.402
		0.168	24.50	22.75		0.088	23.20	22.20	Right Edge 10mm	0.112	0.070	0.182	0.000	0.000	0.000	0.182	0.182
		0.000	24.50	22.75		0.000	23.20	22.20	Top Edge 10mm	0.000	0.000	0.000	0.136	0.250	0.094	0.136	0.344
		0.229	24.50	22.75		0.000	23.20	22.20	Bottom Edge 10mm	0.153	0.000	0.153	0.000	0.000	0.000	0.153	0.153
DC_7A+n66A	Ant.0	0.348	21.50	20.00	Ant.1	0.478	21.70	19.70	Front Side 10mm	0.246	0.302	0.548	0.106	0.210	0.078	0.654	0.836
		0.561	21.50	20.00		0.646	21.70	19.70	Back Side 10mm	0.397	0.408	0.805	0.171	0.294	0.136	0.976	1.235
		0.338	21.50	20.00		0.057	21.70	19.70	Left Edge 10mm	0.239	0.036	0.275	0.082	0.277	0.060	0.357	0.612
		0.091	21.50	20.00		0.115	21.70	19.70	Right Edge 10mm	0.064	0.073	0.137	0.000	0.000	0.000	0.137	0.137
		0.000	21.50	20.00		0.957	21.70	19.70	Top Edge 10mm	0.000	0.604	0.604	0.136	0.250	0.094	0.740	0.948
		0.402	21.50	20.00		0.000	21.70	19.70	Bottom Edge 10mm	0.285	0.000	0.285	0.000	0.000	0.000	0.285	0.285
DC_7A+n66A	Ant.0	0.348	21.50	20.00	Ant.2	0.028	23.20	22.20	Front Side 10mm	0.246	0.022	0.269	0.106	0.210	0.078	0.375	0.557
		0.561	21.50	20.00		0.074	23.20	22.20	Back Side 10mm	0.397	0.059	0.456	0.171	0.294	0.136	0.627	0.886
		0.338	21.50	20.00		0.000	23.20	22.20	Left Edge 10mm	0.239	0.000	0.239	0.082	0.277	0.060	0.321	0.576
		0.091	21.50	20.00		0.088	23.20	22.20	Right Edge 10mm	0.064	0.070	0.134	0.000	0.000	0.000	0.134	0.134
		0.000	21.50	20.00		0.000	23.20	22.20	Top Edge 10mm	0.000	0.000	0.000	0.136	0.250	0.094	0.136	0.344
		0.402	21.50	20.00		0.000	23.20	22.20	Bottom Edge 10mm	0.285	0.000	0.285	0.000	0.000	0.000	0.285	0.285
DC_66A+n66A	Ant.0	0.251	21.00	18.50	Ant.1	0.478	21.70	19.70	Front Side 10mm	0.141	0.302	0.443	0.106	0.210	0.078	0.549	0.731
		0.418	21.00	18.50		0.646	21.70	19.70	Back Side 10mm	0.235	0.408	0.643	0.171	0.294	0.136	0.814	1.073

		0.109	21.00	18.50		0.057	21.70	19.70	Left Edge 10mm	0.061	0.036	0.097	0.082	0.277	0.060	0.179	0.434
		0.059	21.00	18.50		0.115	21.70	19.70	Right Edge 10mm	0.033	0.073	0.106	0.000	0.000	0.000	0.106	0.106
		0.000	21.00	18.50		0.957	21.70	19.70	Top Edge 10mm	0.000	0.604	0.604	0.136	0.250	0.094	0.740	0.948
		0.536	21.00	18.50		0.000	21.70	19.70	Bottom Edge 10mm	0.301	0.000	0.301	0.000	0.000	0.000	0.301	0.301
DC_6A+n66A	Ant.0	0.251	21.00	18.50	Ant.2	0.028	23.20	22.20	Front Side 10mm	0.141	0.022	0.163	0.106	0.210	0.078	0.269	0.451
		0.418	21.00	18.50		0.074	23.20	22.20	Back Side 10mm	0.235	0.059	0.294	0.171	0.294	0.136	0.465	0.724
		0.109	21.00	18.50		0.000	23.20	22.20	Left Edge 10mm	0.061	0.000	0.061	0.082	0.277	0.060	0.143	0.398
		0.059	21.00	18.50		0.088	23.20	22.20	Right Edge 10mm	0.033	0.070	0.103	0.000	0.000	0.000	0.103	0.103
		0.000	21.00	18.50		0.000	23.20	22.20	Top Edge 10mm	0.000	0.000	0.000	0.136	0.250	0.094	0.136	0.344
		0.536	21.00	18.50		0.000	23.20	22.20	Bottom Edge 10mm	0.301	0.000	0.301	0.000	0.000	0.000	0.301	0.301
DC_2A+n38A	Ant.0	0.336	22.00	19.50	Ant.1	0.219	20.20	19.20	Front Side 10mm	0.189	0.174	0.363	0.106	0.210	0.078	0.469	0.651
		0.540	22.00	19.50		0.536	20.20	19.20	Back Side 10mm	0.304	0.428	0.729	0.171	0.294	0.136	0.900	1.159
		0.163	22.00	19.50		0.000	20.20	19.20	Left Edge 10mm	0.092	0.000	0.092	0.082	0.277	0.060	0.174	0.429
		0.088	22.00	19.50		0.131	20.20	19.20	Right Edge 10mm	0.049	0.104	0.154	0.000	0.000	0.000	0.154	0.154
		0.000	22.00	19.50		0.861	20.20	19.20	Top Edge 10mm	0.000	0.684	0.684	0.136	0.250	0.094	0.820	1.028
		0.748	22.00	19.50		0.000	20.20	19.20	Bottom Edge 10mm	0.421	0.000	0.421	0.000	0.000	0.000	0.421	0.421
DC_2A+n38A	Ant.0	0.336	22.00	19.50	Ant.2	0.100	20.20	18.20	Front Side 10mm	0.189	0.063	0.252	0.106	0.210	0.078	0.358	0.540
		0.540	22.00	19.50		0.263	20.20	18.20	Back Side 10mm	0.304	0.166	0.470	0.171	0.294	0.136	0.641	0.900
		0.163	22.00	19.50		0.000	20.20	18.20	Left Edge 10mm	0.092	0.000	0.092	0.082	0.277	0.060	0.174	0.429
		0.088	22.00	19.50		0.218	20.20	18.20	Right Edge 10mm	0.049	0.138	0.187	0.000	0.000	0.000	0.187	0.187
		0.000	22.00	19.50		0.000	20.20	18.20	Top Edge 10mm	0.000	0.000	0.000	0.136	0.250	0.094	0.136	0.344
		0.748	22.00	19.50		0.000	20.20	18.20	Bottom Edge 10mm	0.421	0.000	0.421	0.000	0.000	0.000	0.421	0.421
DC_4A+n38A	Ant.0	0.336	21.75	19.50	Ant.1	0.219	20.20	19.20	Front Side 10mm	0.200	0.174	0.374	0.106	0.210	0.078	0.480	0.662
		0.555	21.75	19.50		0.536	20.20	19.20	Back Side 10mm	0.331	0.428	0.756	0.171	0.294	0.136	0.927	1.186
		0.139	21.75	19.50		0.000	20.20	19.20	Left Edge 10mm	0.083	0.000	0.083	0.082	0.277	0.060	0.165	0.420
		0.103	21.75	19.50		0.131	20.20	19.20	Right Edge 10mm	0.061	0.104	0.165	0.000	0.000	0.000	0.165	0.165
		0.000	21.75	19.50		0.861	20.20	19.20	Top Edge 10mm	0.000	0.684	0.684	0.136	0.250	0.094	0.820	1.028
		0.708	21.75	19.50		0.000	20.20	19.20	Bottom Edge 10mm	0.422	0.000	0.422	0.000	0.000	0.000	0.422	0.422
DC_4A+n38A	Ant.0	0.336	21.75	19.50	Ant.2	0.100	20.20	18.20	Front Side 10mm	0.200	0.063	0.263	0.106	0.210	0.078	0.369	0.551
		0.555	21.75	19.50		0.263	20.20	18.20	Back Side 10mm	0.331	0.166	0.497	0.171	0.294	0.136	0.668	0.927
		0.139	21.75	19.50		0.000	20.20	18.20	Left Edge 10mm	0.083	0.000	0.083	0.082	0.277	0.060	0.165	0.420
		0.103	21.75	19.50		0.218	20.20	18.20	Right Edge 10mm	0.061	0.138	0.199	0.000	0.000	0.000	0.199	0.199
		0.000	21.75	19.50		0.000	20.20	18.20	Top Edge 10mm	0.000	0.000	0.000	0.136	0.250	0.094	0.136	0.344
		0.708	21.75	19.50		0.000	20.20	18.20	Bottom Edge 10mm	0.422	0.000	0.422	0.000	0.000	0.000	0.422	0.422
DC_5A+n38A	Ant.0	0.161	24.50	22.75	Ant.1	0.219	20.20	19.20	Front Side 10mm	0.108	0.174	0.282	0.106	0.210	0.078	0.388	0.570
		0.268	24.50	22.75		0.536	20.20	19.20	Back Side 10mm	0.179	0.428	0.605	0.171	0.294	0.136	0.776	1.035
		0.098	24.50	22.75		0.000	20.20	19.20	Left Edge 10mm	0.065	0.000	0.065	0.082	0.277	0.060	0.147	0.402
		0.168	24.50	22.75		0.131	20.20	19.20	Right Edge 10mm	0.112	0.104	0.216	0.000	0.000	0.000	0.216	0.216
		0.000	24.50	22.75		0.861	20.20	19.20	Top Edge 10mm	0.000	0.684	0.684	0.136	0.250	0.094	0.820	1.028
		0.229	24.50	22.75		0.000	20.20	19.20	Bottom Edge 10mm	0.153	0.000	0.153	0.000	0.000	0.000	0.153	0.153
DC_5A+n38A	Ant.0	0.161	24.50	22.75	Ant.2	0.100	20.20	18.20	Front Side 10mm	0.108	0.063	0.171	0.106	0.210	0.078	0.277	0.459
		0.268	24.50	22.75		0.263	20.20	18.20	Back Side 10mm	0.179	0.166	0.345	0.171	0.294	0.136	0.516	0.775
		0.098	24.50	22.75		0.000	20.20	18.20	Left Edge 10mm	0.065	0.000	0.065	0.082	0.277	0.060	0.147	0.402

		0.168	24.50	22.75		0.218	20.20	18.20	Right Edge 10mm	0.112	0.138	0.250	0.000	0.000	0.000	0.250	0.250
		0.000	24.50	22.75		0.000	20.20	18.20	Top Edge 10mm	0.000	0.000	0.000	0.136	0.250	0.094	0.136	0.344
		0.229	24.50	22.75		0.000	20.20	18.20	Bottom Edge 10mm	0.153	0.000	0.153	0.000	0.000	0.000	0.153	0.153
DC_38A+r38A	Ant.0	0.340	24.00	22.75	Ant.1	0.219	20.20	19.20	Front Side 10mm	0.255	0.174	0.429	0.106	0.210	0.078	0.535	0.717
		0.519	24.00	22.75		0.536	20.20	19.20	Back Side 10mm	0.389	0.426	0.815	0.171	0.294	0.136	0.986	1.245
		0.333	24.00	22.75		0.000	20.20	19.20	Left Edge 10mm	0.250	0.000	0.250	0.082	0.277	0.060	0.332	0.587
		0.085	24.00	22.75		0.131	20.20	19.20	Right Edge 10mm	0.064	0.104	0.168	0.000	0.000	0.000	0.168	0.168
		0.000	24.00	22.75		0.861	20.20	19.20	Top Edge 10mm	0.000	0.684	0.684	0.136	0.250	0.094	0.820	1.028
		0.340	24.00	22.75		0.000	20.20	19.20	Bottom Edge 10mm	0.255	0.000	0.255	0.000	0.000	0.000	0.255	0.255
DC_38A+r38A	Ant.0	0.340	24.00	22.75	Ant.2	0.100	20.20	18.20	Front Side 10mm	0.255	0.063	0.318	0.106	0.210	0.078	0.424	0.606
		0.519	24.00	22.75		0.263	20.20	18.20	Back Side 10mm	0.389	0.166	0.555	0.171	0.294	0.136	0.726	0.985
		0.333	24.00	22.75		0.000	20.20	18.20	Left Edge 10mm	0.250	0.000	0.250	0.082	0.277	0.060	0.332	0.587
		0.085	24.00	22.75		0.218	20.20	18.20	Right Edge 10mm	0.064	0.138	0.201	0.000	0.000	0.000	0.201	0.201
		0.000	24.00	22.75		0.000	20.20	18.20	Top Edge 10mm	0.000	0.000	0.000	0.136	0.250	0.094	0.136	0.344
		0.340	24.00	22.75		0.000	20.20	18.20	Bottom Edge 10mm	0.255	0.000	0.255	0.000	0.000	0.000	0.255	0.255
DC_66A+r38A	Ant.0	0.251	21.00	18.50	Ant.1	0.219	20.20	19.20	Front Side 10mm	0.141	0.174	0.315	0.106	0.210	0.078	0.421	0.603
		0.418	21.00	18.50		0.536	20.20	19.20	Back Side 10mm	0.235	0.426	0.661	0.171	0.294	0.136	0.832	1.091
		0.109	21.00	18.50		0.000	20.20	19.20	Left Edge 10mm	0.061	0.000	0.061	0.082	0.277	0.060	0.143	0.398
		0.059	21.00	18.50		0.131	20.20	19.20	Right Edge 10mm	0.033	0.104	0.137	0.000	0.000	0.000	0.137	0.137
		0.000	21.00	18.50		0.861	20.20	19.20	Top Edge 10mm	0.000	0.684	0.684	0.136	0.250	0.094	0.820	1.028
		0.536	21.00	18.50		0.000	20.20	19.20	Bottom Edge 10mm	0.301	0.000	0.301	0.000	0.000	0.000	0.301	0.301
DC_66A+r38A	Ant.0	0.251	21.00	18.50	Ant.2	0.100	20.20	18.20	Front Side 10mm	0.141	0.063	0.204	0.106	0.210	0.078	0.310	0.492
		0.418	21.00	18.50		0.263	20.20	18.20	Back Side 10mm	0.235	0.166	0.401	0.171	0.294	0.136	0.572	0.831
		0.109	21.00	18.50		0.000	20.20	18.20	Left Edge 10mm	0.061	0.000	0.061	0.082	0.277	0.060	0.143	0.398
		0.059	21.00	18.50		0.218	20.20	18.20	Right Edge 10mm	0.033	0.138	0.171	0.000	0.000	0.000	0.171	0.171
		0.000	21.00	18.50		0.000	20.20	18.20	Top Edge 10mm	0.000	0.000	0.000	0.136	0.250	0.094	0.136	0.344
		0.536	21.00	18.50		0.000	20.20	18.20	Bottom Edge 10mm	0.301	0.000	0.301	0.000	0.000	0.000	0.301	0.301
DC_2A+r41A	Ant.0	0.336	22.00	19.50	Ant.1	0.233	19.95	17.95	Front Side 10mm	0.189	0.147	0.336	0.106	0.210	0.078	0.442	0.624
		0.540	22.00	19.50		0.601	19.95	17.95	Back Side 10mm	0.304	0.379	0.683	0.171	0.294	0.136	0.854	1.113
		0.163	22.00	19.50		0.000	19.95	17.95	Left Edge 10mm	0.092	0.000	0.092	0.082	0.277	0.060	0.174	0.429
		0.088	22.00	19.50		0.116	19.95	17.95	Right Edge 10mm	0.049	0.073	0.123	0.000	0.000	0.000	0.123	0.123
		0.000	22.00	19.50		0.785	19.95	17.95	Top Edge 10mm	0.000	0.495	0.495	0.136	0.250	0.094	0.631	0.839
		0.748	22.00	19.50		0.000	19.95	17.95	Bottom Edge 10mm	0.421	0.000	0.421	0.000	0.000	0.000	0.421	0.421
DC_2A+r41A	Ant.0	0.336	22.00	19.50	Ant.2	0.082	19.45	17.45	Front Side 10mm	0.189	0.052	0.241	0.106	0.210	0.078	0.347	0.529
		0.540	22.00	19.50		0.236	19.45	17.45	Back Side 10mm	0.304	0.149	0.453	0.171	0.294	0.136	0.624	0.883
		0.163	22.00	19.50		0.000	19.45	17.45	Left Edge 10mm	0.092	0.000	0.092	0.082	0.277	0.060	0.174	0.429
		0.088	22.00	19.50		0.168	19.45	17.45	Right Edge 10mm	0.049	0.106	0.155	0.000	0.000	0.000	0.155	0.155
		0.000	22.00	19.50		0.000	19.45	17.45	Top Edge 10mm	0.000	0.000	0.000	0.136	0.250	0.094	0.136	0.344
		0.748	22.00	19.50		0.000	19.45	17.45	Bottom Edge 10mm	0.421	0.000	0.421	0.000	0.000	0.000	0.421	0.421
DC_4A+r41A	Ant.0	0.336	21.75	19.50	Ant.1	0.233	19.95	17.95	Front Side 10mm	0.200	0.147	0.347	0.106	0.210	0.078	0.453	0.635
		0.555	21.75	19.50		0.601	19.95	17.95	Back Side 10mm	0.331	0.379	0.710	0.171	0.294	0.136	0.881	1.140
		0.139	21.75	19.50		0.000	19.95	17.95	Left Edge 10mm	0.083	0.000	0.083	0.082	0.277	0.060	0.165	0.420
		0.103	21.75	19.50		0.116	19.95	17.95	Right Edge 10mm	0.061	0.073	0.135	0.000	0.000	0.000	0.135	0.135

DC_4A+n41A	Ant.0	0.000	21.75	19.50	Ant.2	0.785	19.95	17.95	Top Edge 10mm	0.000	0.495	0.495	0.136	0.250	0.094	0.631	0.839
		0.708	21.75	19.50		0.000	19.95	17.95	Bottom Edge 10mm	0.422	0.000	0.422	0.000	0.000	0.000	0.422	0.422
		0.336	21.75	19.50		0.082	19.45	17.45	Front Side 10mm	0.200	0.052	0.252	0.106	0.210	0.078	0.358	0.540
		0.555	21.75	19.50		0.236	19.45	17.45	Back Side 10mm	0.331	0.149	0.479	0.171	0.294	0.136	0.650	0.909
		0.139	21.75	19.50		0.000	19.45	17.45	Left Edge 10mm	0.083	0.000	0.083	0.082	0.277	0.060	0.165	0.420
		0.103	21.75	19.50		0.168	19.45	17.45	Right Edge 10mm	0.061	0.106	0.167	0.000	0.000	0.000	0.167	0.167
		0.000	21.75	19.50		0.000	19.45	17.45	Top Edge 10mm	0.000	0.000	0.000	0.136	0.250	0.094	0.136	0.344
		0.708	21.75	19.50		0.000	19.45	17.45	Bottom Edge 10mm	0.422	0.000	0.422	0.000	0.000	0.000	0.422	0.422
DC_26A+n41A	Ant.0	0.134	24.00	21.50	Ant.1	0.233	19.95	17.95	Front Side 10mm	0.075	0.147	0.222	0.106	0.210	0.078	0.328	0.510
		0.252	24.00	21.50		0.601	19.95	17.95	Back Side 10mm	0.142	0.379	0.521	0.171	0.294	0.136	0.652	0.951
		0.084	24.00	21.50		0.000	19.95	17.95	Left Edge 10mm	0.047	0.000	0.047	0.082	0.277	0.060	0.129	0.384
		0.150	24.00	21.50		0.116	19.95	17.95	Right Edge 10mm	0.084	0.073	0.158	0.000	0.000	0.000	0.158	0.158
		0.000	24.00	21.50		0.785	19.95	17.95	Top Edge 10mm	0.000	0.495	0.495	0.136	0.250	0.094	0.631	0.839
		0.190	24.00	21.50		0.000	19.95	17.95	Bottom Edge 10mm	0.107	0.000	0.107	0.000	0.000	0.000	0.107	0.107
DC_26A+n41A	Ant.0	0.134	24.00	21.50	Ant.2	0.082	19.45	17.45	Front Side 10mm	0.075	0.052	0.127	0.106	0.210	0.078	0.233	0.415
		0.252	24.00	21.50		0.236	19.45	17.45	Back Side 10mm	0.142	0.149	0.291	0.171	0.294	0.136	0.462	0.721
		0.084	24.00	21.50		0.000	19.45	17.45	Left Edge 10mm	0.047	0.000	0.047	0.082	0.277	0.060	0.129	0.384
		0.150	24.00	21.50		0.168	19.45	17.45	Right Edge 10mm	0.084	0.106	0.190	0.000	0.000	0.000	0.190	0.190
		0.000	24.00	21.50		0.000	19.45	17.45	Top Edge 10mm	0.000	0.000	0.000	0.136	0.250	0.094	0.136	0.344
		0.190	24.00	21.50		0.000	19.45	17.45	Bottom Edge 10mm	0.107	0.000	0.107	0.000	0.000	0.000	0.107	0.107
DC_41A+n41A	Ant.0	0.228	23.50	23.00	Ant.1	0.233	19.95	17.95	Front Side 10mm	0.203	0.147	0.350	0.106	0.210	0.078	0.456	0.638
		0.384	23.50	23.00		0.601	19.95	17.95	Back Side 10mm	0.342	0.379	0.721	0.171	0.294	0.136	0.892	1.151
		0.251	23.50	23.00		0.000	19.95	17.95	Left Edge 10mm	0.224	0.000	0.224	0.082	0.277	0.060	0.306	0.561
		0.063	23.50	23.00		0.116	19.95	17.95	Right Edge 10mm	0.056	0.073	0.129	0.000	0.000	0.000	0.129	0.129
		0.000	23.50	23.00		0.785	19.95	17.95	Top Edge 10mm	0.000	0.495	0.495	0.136	0.250	0.094	0.631	0.839
		0.256	23.50	23.00		0.000	19.95	17.95	Bottom Edge 10mm	0.228	0.000	0.228	0.000	0.000	0.000	0.228	0.228
DC_41A+n41A	Ant.0	0.228	23.50	23.00	Ant.2	0.082	19.45	17.45	Front Side 10mm	0.203	0.052	0.255	0.106	0.210	0.078	0.361	0.543
		0.384	23.50	23.00		0.236	19.45	17.45	Back Side 10mm	0.342	0.149	0.491	0.171	0.294	0.136	0.662	0.921
		0.251	23.50	23.00		0.000	19.45	17.45	Left Edge 10mm	0.224	0.000	0.224	0.082	0.277	0.060	0.306	0.561
		0.063	23.50	23.00		0.168	19.45	17.45	Right Edge 10mm	0.056	0.106	0.162	0.000	0.000	0.000	0.162	0.162
		0.000	23.50	23.00		0.000	19.45	17.45	Top Edge 10mm	0.000	0.000	0.000	0.136	0.250	0.094	0.136	0.344
		0.256	23.50	23.00		0.000	19.45	17.45	Bottom Edge 10mm	0.228	0.000	0.228	0.000	0.000	0.000	0.228	0.228
DC_66A+n41A	Ant.0	0.251	21.00	18.50	Ant.1	0.233	19.95	17.95	Front Side 10mm	0.141	0.147	0.288	0.106	0.210	0.078	0.394	0.576
		0.418	21.00	18.50		0.601	19.95	17.95	Back Side 10mm	0.235	0.379	0.614	0.171	0.294	0.136	0.785	1.044
		0.109	21.00	18.50		0.000	19.95	17.95	Left Edge 10mm	0.061	0.000	0.061	0.082	0.277	0.060	0.143	0.398
		0.059	21.00	18.50		0.116	19.95	17.95	Right Edge 10mm	0.033	0.073	0.106	0.000	0.000	0.000	0.106	0.106
		0.000	21.00	18.50		0.785	19.95	17.95	Top Edge 10mm	0.000	0.495	0.495	0.136	0.250	0.094	0.631	0.839
		0.536	21.00	18.50		0.000	19.95	17.95	Bottom Edge 10mm	0.301	0.000	0.301	0.000	0.000	0.000	0.301	0.301
DC_66A+n41A	Ant.0	0.251	21.00	18.50	Ant.2	0.082	19.45	17.45	Front Side 10mm	0.141	0.052	0.193	0.106	0.210	0.078	0.299	0.481
		0.418	21.00	18.50		0.236	19.45	17.45	Back Side 10mm	0.235	0.149	0.384	0.171	0.294	0.136	0.555	0.814
		0.109	21.00	18.50		0.000	19.45	17.45	Left Edge 10mm	0.061	0.000	0.061	0.082	0.277	0.060	0.143	0.398
		0.059	21.00	18.50		0.168	19.45	17.45	Right Edge 10mm	0.033	0.106	0.139	0.000	0.000	0.000	0.139	0.139
		0.000	21.00	18.50		0.000	19.45	17.45	Top Edge 10mm	0.000	0.000	0.000	0.136	0.250	0.094	0.136	0.344

		0.536	21.00	18.50		0.000	19.45	17.45	Bottom Edge 10mm	0.301	0.000	0.301	0.000	0.000	0.000	0.301	0.301
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Note:

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

2: The highest Summed 1g SAR is 1.245 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	DASY8	16.2.2.1588	N/A	N/A
750MHz Validation Dipole	Speag	D750V3	SN: 1208	2021/07/05	2024/07/05
835MHz Validation Dipole	Speag	D835V2	SN: 4d277	2021/09/09	2024/09/09
1750MHz Validation Dipole	Speag	D1750V2	SN: 1183	2021/07/06	2024/07/06
1950MHz Validation Dipole	Speag	D1950V2	SN: 1240	2021/09/13	2024/09/13
2450MHz Validation Dipole	Speag	D2450V2	SN: 1062	2021/07/05	2024/07/05
2600MHz Validation Dipole	Speag	D2600V2	SN: 1184	2021/07/05	2024/07/05
5GHz Validation Dipole	Speag	D5GHZV2	SN: 1333	2021/09/14	2024/09/14
Data Acquisition Electronicsr	Speag	DAE4	SN: 1711	2024/03/18	2025/03/18
E-Field Probe	Speag	EX3DV4	SN: 7607	2023/07/04	2024/07/04
Signal Generator	R&S	SMB100A	182396	2023/09/05	2024/09/05
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 a DAK3.5 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 (%)
2024.06.05	Head	750	21.2	0.90	42.12	0.89	41.94	1.12	0.43
2024.06.06	Head	750	21.3	0.90	41.62	0.89	41.94	1.12	-0.76
2024.06.07	Head	835	21.3	0.89	41.96	0.90	41.50	-1.11	1.11
2024.06.08	Head	835	21.4	0.90	41.49	0.90	41.50	0.00	-0.02
2024.06.09	Head	835	21.3	0.90	41.44	0.90	41.50	0.00	-0.14
2024.06.11	Head	1750	21.2	1.40	39.60	1.37	40.08	2.19	-1.20
2024.06.12	Head	1750	21.5	1.38	40.28	1.37	40.08	0.73	0.50
2024.06.13	Head	1750	21.1	1.37	40.14	1.37	40.08	0.00	0.15
2024.06.14	Head	1950	21.3	1.44	39.34	1.40	40.00	2.86	-1.65
2024.06.15	Head	1950	21.3	1.43	39.62	1.40	40.00	2.14	-0.95
2024.06.16	Head	2450	21.4	1.80	38.89	1.80	39.20	0.00	-0.79
2024.06.17	Head	2600	21.1	1.98	38.94	1.96	39.01	1.02	-0.18
2024.06.18	Head	2600	21.3	1.96	39.12	1.96	39.01	0.00	0.28
2024.06.19	Head	2600	21.6	1.96	39.21	1.96	39.01	0.00	0.51
2024.06.20	Head	2600	21.3	1.98	38.57	1.96	39.01	1.02	-1.13
2024.06.21	Head	2600	21.5	1.99	38.75	1.96	39.01	1.53	-0.67
2024.06.22	Head	2600	21.3	1.98	38.64	1.96	39.01	1.02	-0.95
2024.06.23	Head	2600	21.2	1.98	38.87	1.96	39.01	1.02	-0.36
2024.06.24	Head	2600	21.0	1.97	38.91	1.96	39.01	0.51	-0.26
2024.06.25	Head	2600	21.3	1.91	39.53	1.96	39.01	-2.55	1.33
2024.06.26	Head	5200	21.4	4.69	35.80	4.66	35.99	0.64	-0.53
2024.06.27	Head	5300	21.1	4.80	35.84	4.76	35.87	0.84	-0.08
2024.06.28	Head	5600	21.3	5.10	35.71	5.07	35.53	0.59	0.51
2024.06.29	Head	5800	21.1	5.29	35.42	5.27	35.30	0.38	0.34

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)	Dipole SAR (W/kg)	Tolerance (%)
2024.06.05	Head	750	100	0.85	8.52	8.51	0.12
2024.06.06	Head	750	100	0.88	8.45	8.51	-0.71
2024.06.07	Head	835	100	0.97	9.65	9.72	-0.72
2024.06.08	Head	835	100	0.97	9.71	9.72	-0.10
2024.06.09	Head	835	100	0.97	9.66	9.72	-0.62
2024.06.11	Head	1750	100	3.64	36.40	36.50	-0.27
2024.06.12	Head	1750	100	3.71	37.10	36.50	1.64
2024.06.13	Head	1750	100	3.68	36.80	36.50	0.82
2024.06.14	Head	1950	100	4.18	41.80	41.40	0.97
2024.06.15	Head	1950	100	4.21	42.10	41.40	1.69
2024.06.16	Head	2450	100	5.39	53.90	54.20	-0.55
2024.06.17	Head	2600	100	5.68	56.80	57.20	-0.70
2024.06.18	Head	2600	100	5.72	57.20	57.20	0.00
2024.06.19	Head	2600	100	5.64	56.40	57.20	-1.40
2024.06.20	Head	2600	100	5.76	57.60	57.20	0.70
2024.06.21	Head	2600	100	5.80	58.00	57.20	1.40
2024.06.22	Head	2600	100	5.71	57.10	57.20	-0.17
2024.06.23	Head	2600	100	5.64	56.40	57.20	-1.40
2024.06.24	Head	2600	100	5.70	57.00	57.20	-0.35
2024.06.25	Head	2600	100	5.64	56.40	57.20	-1.40
2024.06.26	Head	5200	100	8.05	80.50	80.10	0.50
2024.06.27	Head	5300	100	8.23	82.30	81.80	0.61
2024.06.28	Head	5600	100	8.31	83.10	83.60	-0.60
2024.06.29	Head	5800	100	8.28	82.80	82.30	0.61

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

## Head liquid 10g

Date	Liquid Type	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)
2024.06.11	Head	1750	100	1.910	19.10	19.20	-0.52
2024.06.12	Head	1750	100	1.940	19.40	19.20	1.04
2024.06.13	Head	1750	100	1.920	19.20	19.20	0.00
2024.06.14	Head	1950	100	2.120	21.20	21.40	-0.93
2024.06.15	Head	1950	100	2.150	21.50	21.40	0.47
2024.06.16	Head	2450	100	2.480	24.80	25.20	-1.59
2024.06.17	Head	2600	100	2.510	25.10	25.50	-1.57
2024.06.18	Head	2600	100	2.560	25.60	25.50	0.39
2024.06.19	Head	2600	100	2.490	24.90	25.50	-2.35
2024.06.20	Head	2600	100	2.590	25.90	25.50	1.57
2024.06.21	Head	2600	100	2.600	26.00	25.50	1.96
2024.06.22	Head	2600	100	2.560	25.60	25.50	0.39
2024.06.23	Head	2600	100	2.480	24.80	25.50	-2.75
2024.06.24	Head	2600	100	2.540	25.40	25.50	-0.39
2024.06.25	Head	2600	100	2.500	25.00	25.50	-1.96
2024.06.27	Head	5300	100	2.310	23.10	23.40	-1.28
2024.06.28	Head	5600	100	2.350	23.50	23.80	-1.26

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	0.901	42.1	22.3	21.2

## Hardware Setup

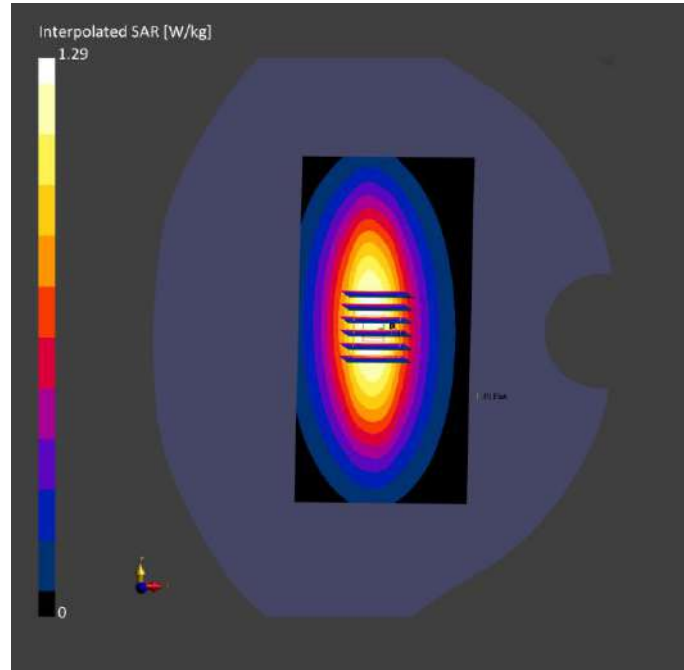
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-05	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

## 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	2024-06-05	2024-06-05
psSAR1g [W/kg]	0.841	0.852
psSAR10g [W/kg]	0.551	0.561
Power Drift [dB]	-0.01	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		85.6
Dist 3dB Peak [mm]		20.2



# 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	0.901	41.6	22.4	21.3

## Hardware Setup

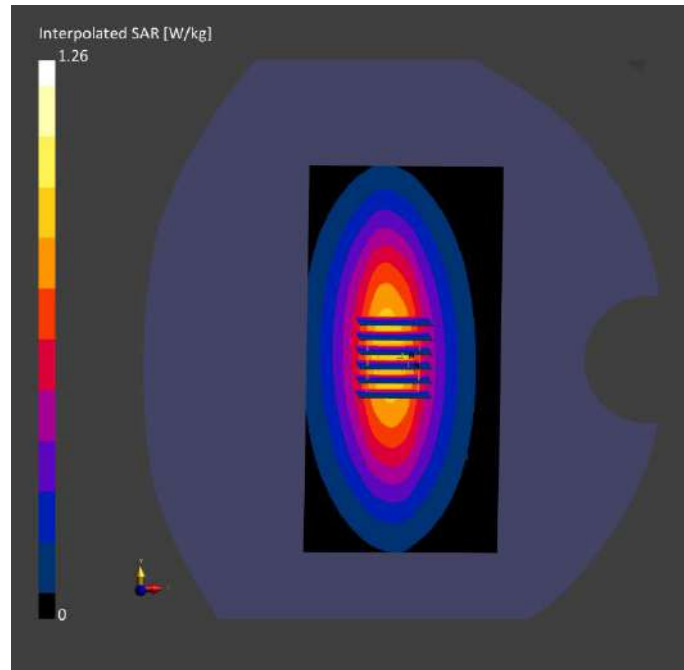
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-06	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

## 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	2024-06-06	2024-06-06
psSAR1g [W/kg]	0.838	0.845
psSAR10g [W/kg]	0.531	0.553
Power Drift [dB]	-0.03	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		86.4
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	0.888	42.0	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 2024-06-07	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

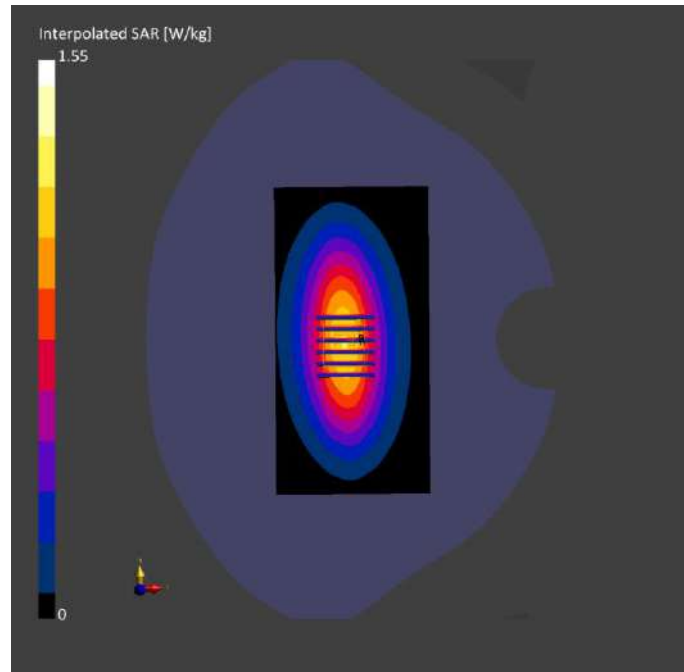
## Scan Setup

	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	2024-06-07	2024-06-07
psSAR1g [W/kg]	0.934	0.965
psSAR10g [W/kg]	0.625	0.635
Power Drift [dB]	-0.03	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		83.1
Dist 3dB Peak [mm]		12.5





# 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	0.903	41.5	22.5	21.4

## Hardware Setup

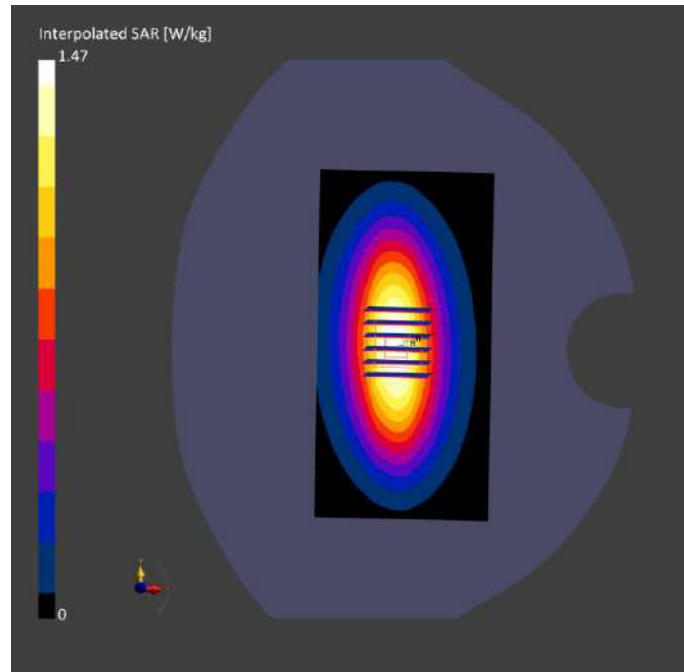
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-08	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

## 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	2024-06-08	2024-06-08
psSAR1g [W/kg]	0.951	0.971
psSAR10g [W/kg]	0.621	0.638
Power Drift [dB]	-0.09	0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		85.1
Dist 3dB Peak [mm]		13.0



# 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	0.902	41.4	22.5	21.3

## Hardware Setup

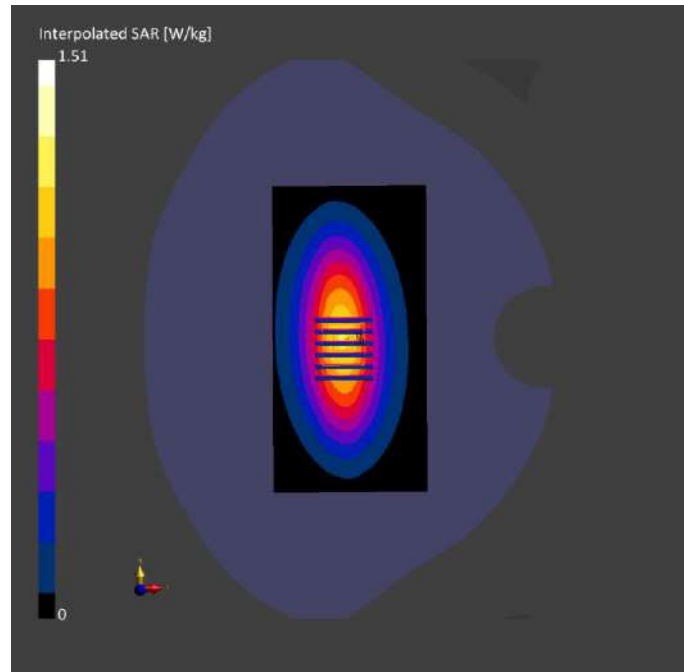
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-09	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

## 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	2024-06-09	2024-06-09
psSAR1g [W/kg]	0.951	0.966
psSAR10g [W/kg]	0.621	0.631
Power Drift [dB]	-0.03	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		84.3
Dist 3dB Peak [mm]		12.8



# 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	1.40	39.6	22.4	21.2

## Hardware Setup

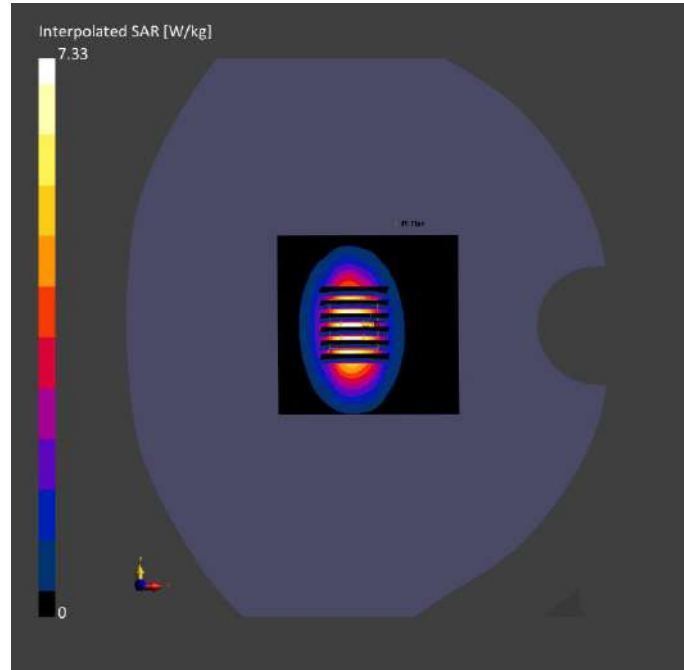
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-11	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

## 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	2024-06-11	2024-06-11
psSAR1g [W/kg]	3.28	3.64
psSAR10g [W/kg]	1.81	1.91
Power Drift [dB]	-0.02	-0.08
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		82.2
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	40.3	22.5	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 2024-06-12	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

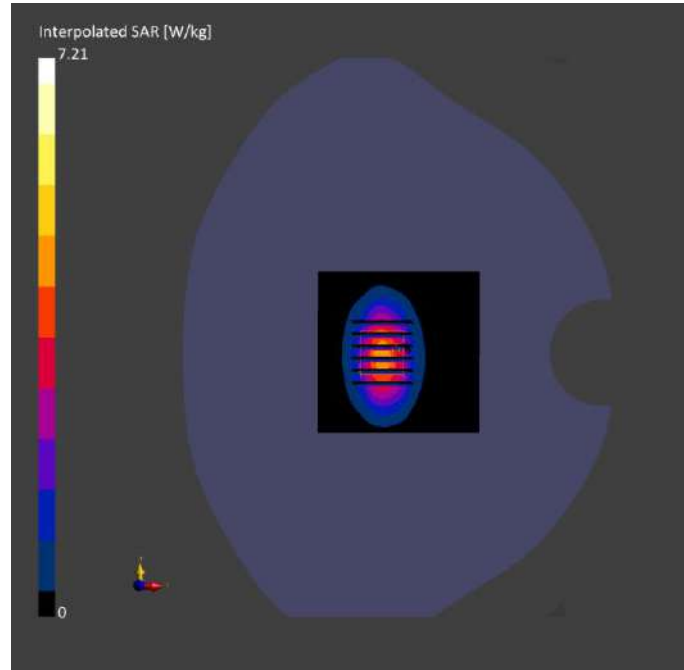
## Scan Setup

	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	2024-06-12	2024-06-12
psSAR1g [W/kg]	3.36	3.71
psSAR10g [W/kg]	1.85	1.94
Power Drift [dB]	-0.06	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.2
Dist 3dB Peak [mm]		10.6





# 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	1.37	40.1	22.2	21.1

## Hardware Setup

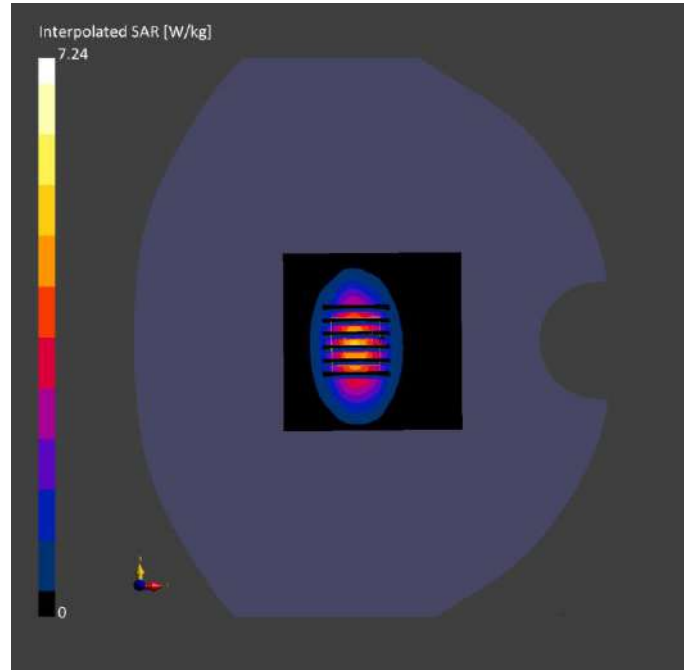
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-13	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

## 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	2024-06-13	2024-06-13
psSAR1g [W/kg]	3.48	3.68
psSAR10g [W/kg]	1.84	1.92
Power Drift [dB]	-0.03	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.5
Dist 3dB Peak [mm]		10.5



# System Performance Check Data (1950MHz)

## Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D1950V2, 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		D1950	CW, 0--	1950.0, 50	7.87	1.44	39.3	22.3	21.3

## Hardware Setup

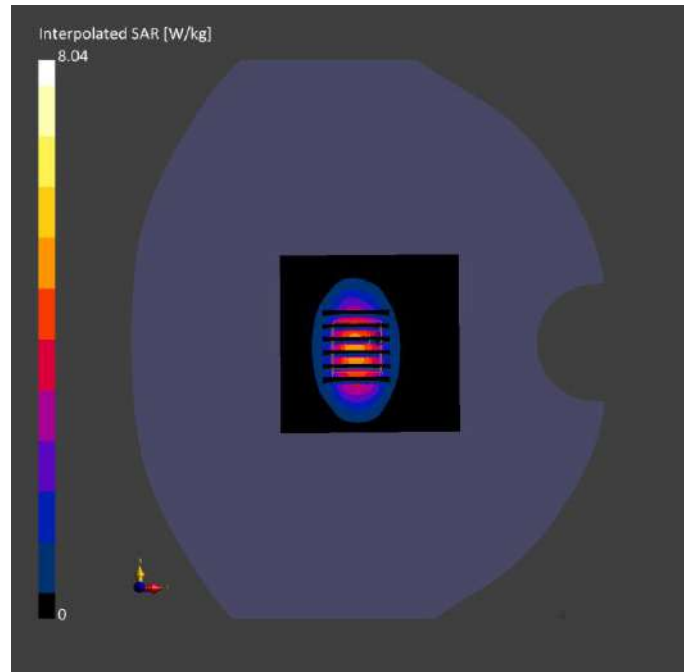
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-14	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

## 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	2024-06-14	2024-06-14
psSAR1g [W/kg]	3.94	4.18
psSAR10g [W/kg]	1.98	2.12
Power Drift [dB]	-0.05	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.3
Dist 3dB Peak [mm]		9.2



# System Performance Check Data (1950MHz)

## Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D1950V2, 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		D1950	CW, 0--	1950.0, 50	7.87	1.43	39.6	22.5	21.3

## Hardware Setup

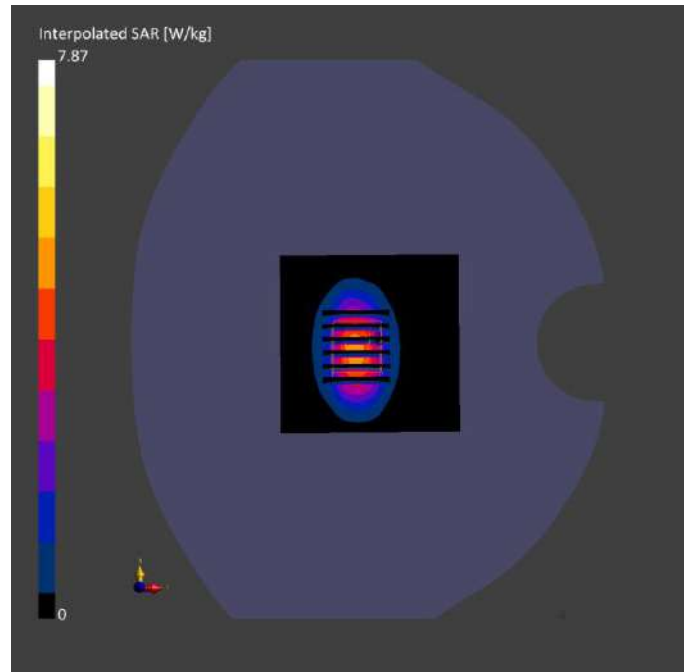
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-15	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

## 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	2024-06-15	2024-06-15
psSAR1g [W/kg]	4.01	4.21
psSAR10g [W/kg]	2.05	2.15
Power Drift [dB]	0.03	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.8
Dist 3dB Peak [mm]		9.5



# 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	1.80	38.9	22.6	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 2024-06-16	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

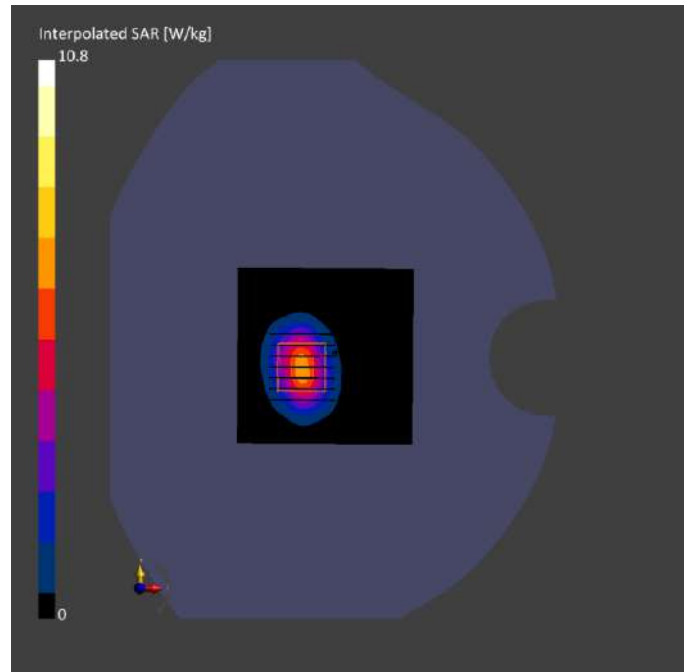
## Scan Setup

	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	2024-06-16	2024-06-16
psSAR1g [W/kg]	5.18	5.39
psSAR10g [W/kg]	2.26	2.48
Power Drift [dB]	-0.03	-0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.1
Dist 3dB Peak [mm]		9.2





# 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	1.98	38.9	22.4	21.1

## Hardware Setup

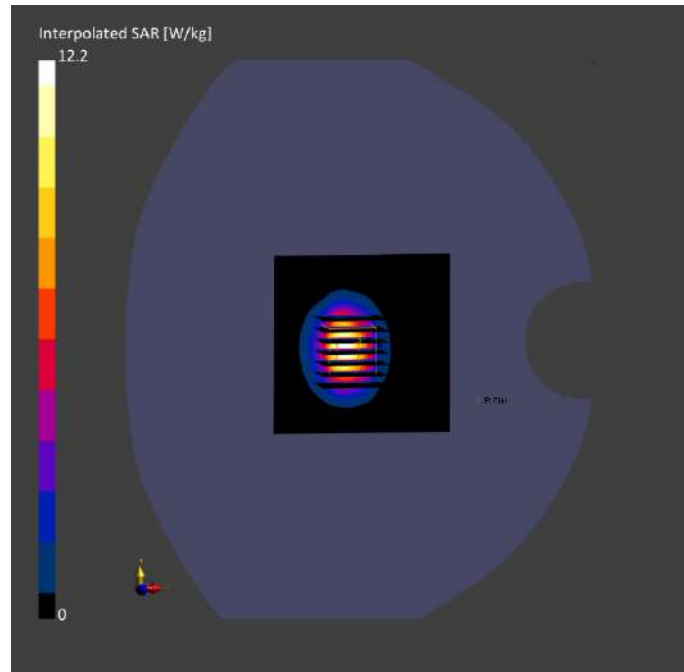
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-17	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

## 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	2024-06-17	2024-06-17
psSAR1g [W/kg]	5.51	5.68
psSAR10g [W/kg]	2.39	2.51
Power Drift [dB]	0.06	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		79.6
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	1.96	39.1	22.3	21.3

## Hardware Setup

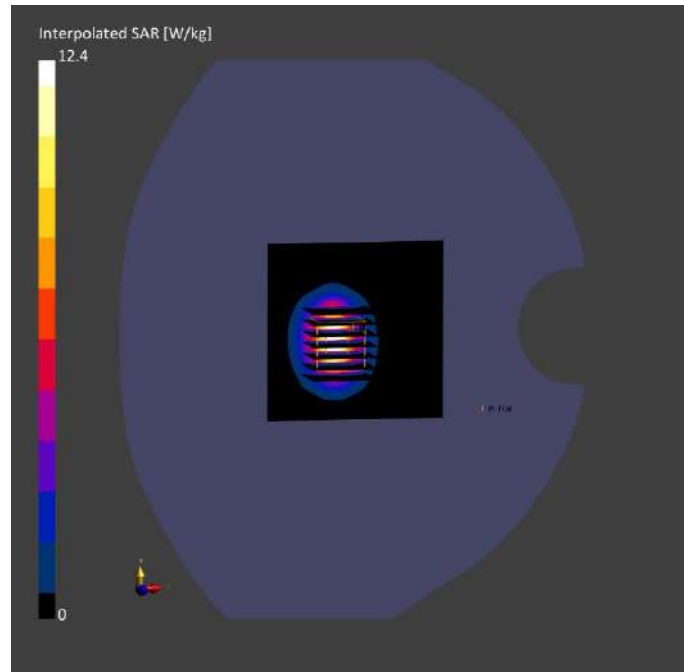
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-18	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

## 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	2024-06-18	2024-06-18
psSAR1g [W/kg]	5.51	5.72
psSAR10g [W/kg]	2.43	2.56
Power Drift [dB]	0.01	0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		80.2
Dist 3dB Peak [mm]		8.4



# 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	1.96	39.2	22.7	21.6

## Hardware Setup

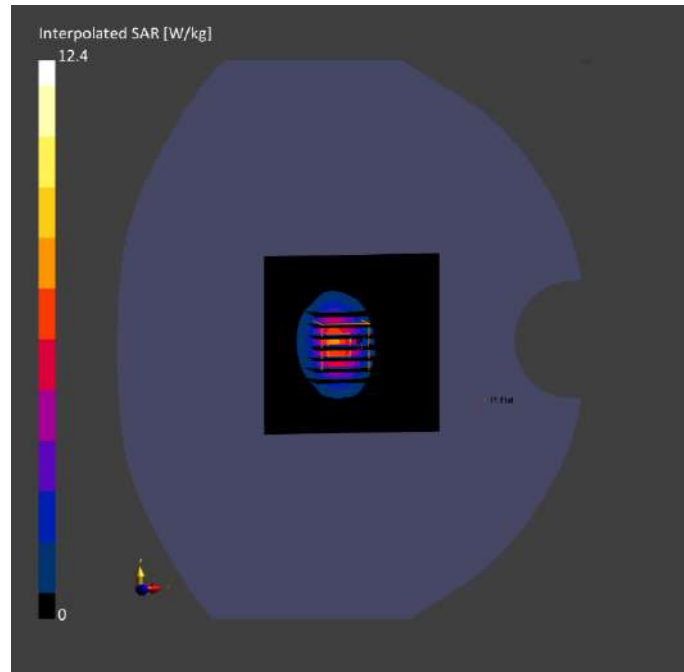
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-19	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

## 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	2024-06-19	2024-06-19
psSAR1g [W/kg]	5.52	5.64
psSAR10g [W/kg]	2.31	2.49
Power Drift [dB]	0.01	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		79.4
Dist 3dB Peak [mm]		9.5



# 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	1.98	38.6	22.5	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 2024-06-20	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

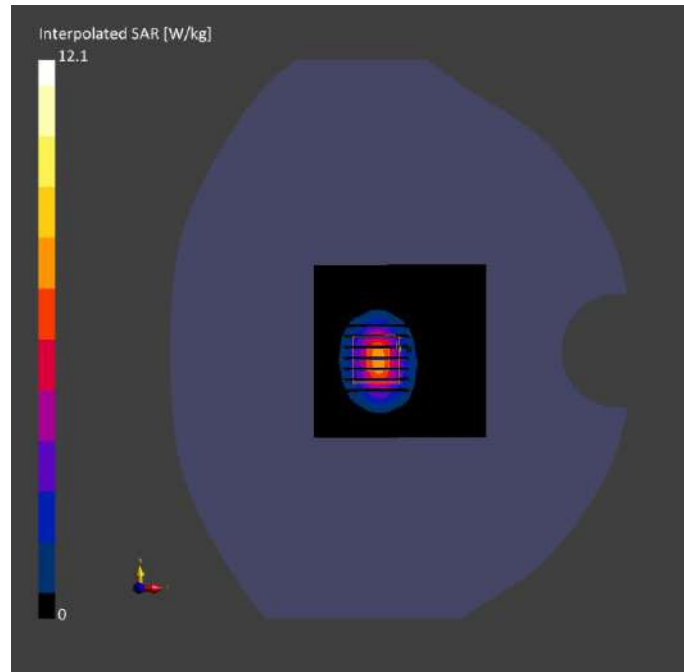
## Scan Setup

	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	2024-06-20	2024-06-20
psSAR1g [W/kg]	5.51	5.76
psSAR10g [W/kg]	2.23	2.59
Power Drift [dB]	0.02	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		80.4
Dist 3dB Peak [mm]		9.4





# 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	1.99	38.8	22.6	21.5

## Hardware Setup

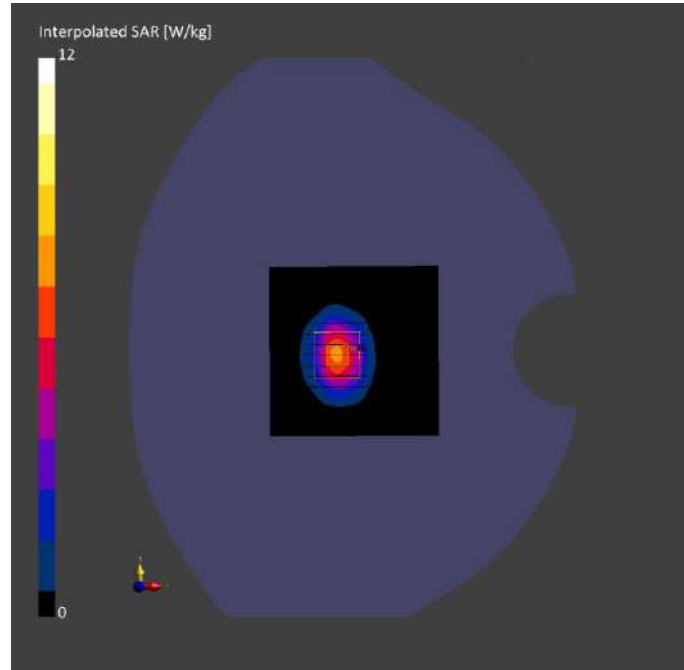
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-21	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

## 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	2024-06-21	2024-06-21
psSAR1g [W/kg]	5.71	5.80
psSAR10g [W/kg]	2.40	2.60
Power Drift [dB]	0.00	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		79.6
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	1.98	38.6	22.3	21.3

## Hardware Setup

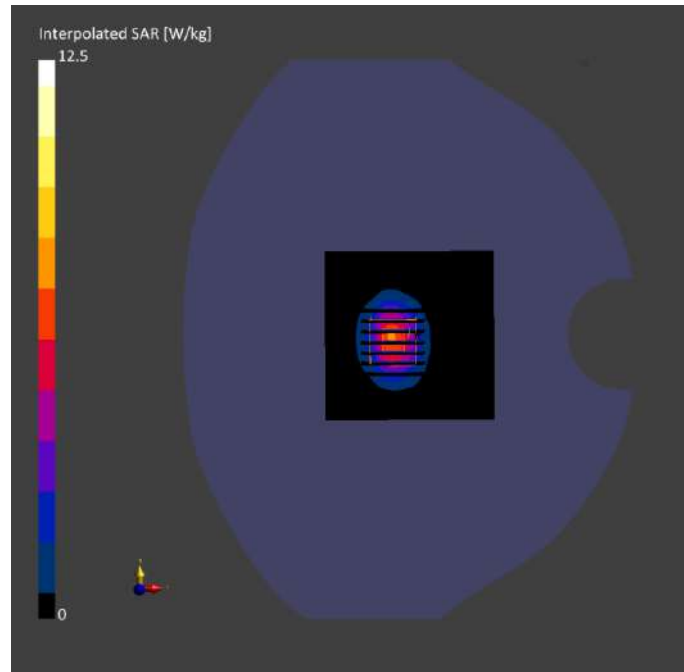
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-22	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

## 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	2024-06-22	2024-06-22
psSAR1g [W/kg]	5.51	5.71
psSAR10g [W/kg]	2.37	2.56
Power Drift [dB]	0.01	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.2
Dist 3dB Peak [mm]		9.2



# 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	1.98	38.9	22.4	21.2

## Hardware Setup

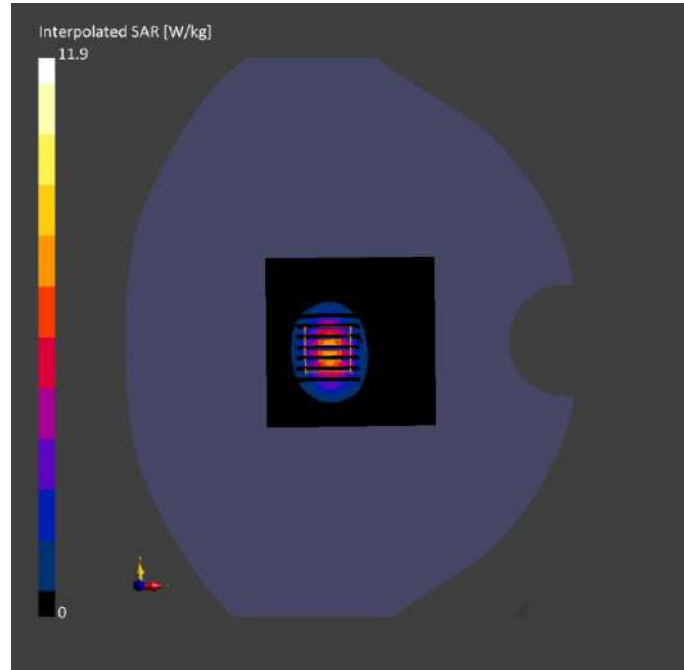
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-23	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

## 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	2024-06-23	2024-06-23
psSAR1g [W/kg]	5.33	5.64
psSAR10g [W/kg]	2.41	2.48
Power Drift [dB]	0.00	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		80.4
Dist 3dB Peak [mm]		8.9



# 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	38.9	22.1	21.0

## Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-24	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

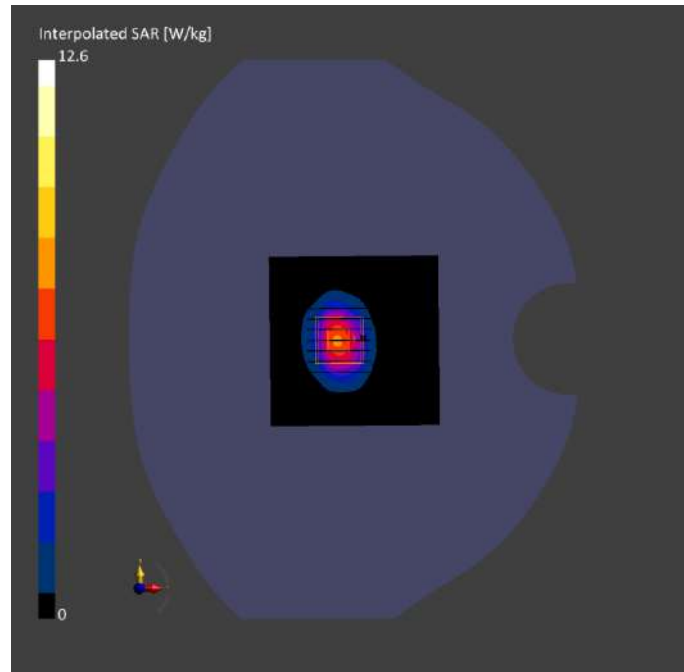
## Scan Setup

	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	2024-06-24	2024-06-24
psSAR1g [W/kg]	5.32	5.70
psSAR10g [W/kg]	2.38	2.54
Power Drift [dB]	0.00	0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		82.5
Dist 3dB Peak [mm]		8.7





# 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	1.91	39.5	22.5	21.3

## Hardware Setup

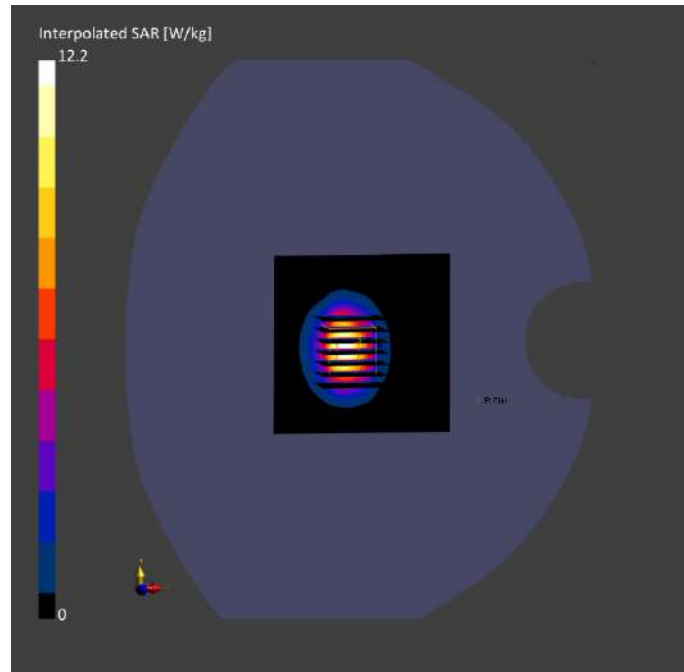
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-25	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

## 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	2024-06-25	2024-06-25
psSAR1g [W/kg]	5.51	5.64
psSAR10g [W/kg]	2.36	2.50
Power Drift [dB]	0.03	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		79.3
Dist 3dB Peak [mm]		9.2



# System Performance Check Data (5200MHz)

## Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D5GHZV2, SPEAG	10.0 x 10.0 x 3.0	Dipole

## 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		D5GHZ	CW, 0--	5200.0, 20	5.41	4.69	35.8	22.6	21.4

## Hardware Setup

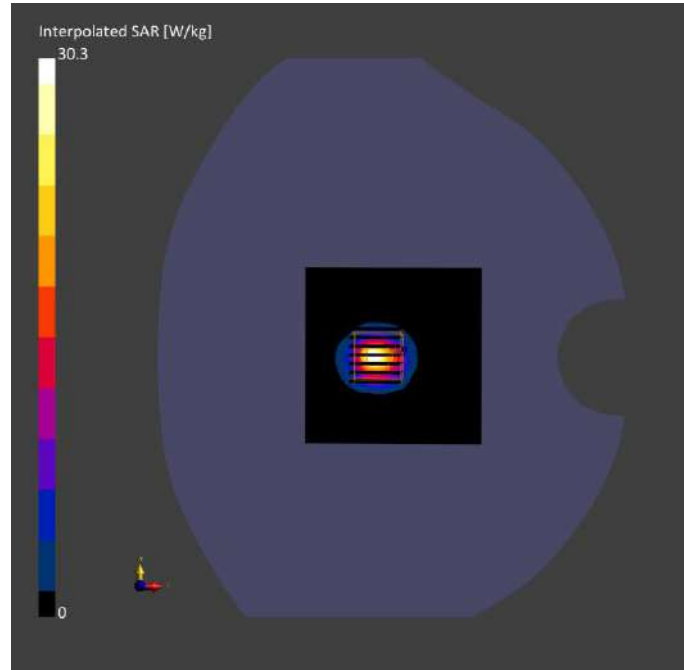
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-26	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

## Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

## Measurement Results

	Area Scan	Zoom Scan
Date	2024-06-26	2024-06-26
psSAR1g [W/kg]	7.84	8.05
psSAR10g [W/kg]	2.16	2.24
Power Drift [dB]	-0.04	0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		64.6
Dist 3dB Peak [mm]		6.9



# System Performance Check Data (5300MHz)

## Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D5GHZV2, SPEAG	10.0 x 10.0 x 3.0	Dipole

## 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		D5GHZ	CW, 0--	5300.0, 30	5.41	4.80	35.8	22.3	21.1

## Hardware Setup

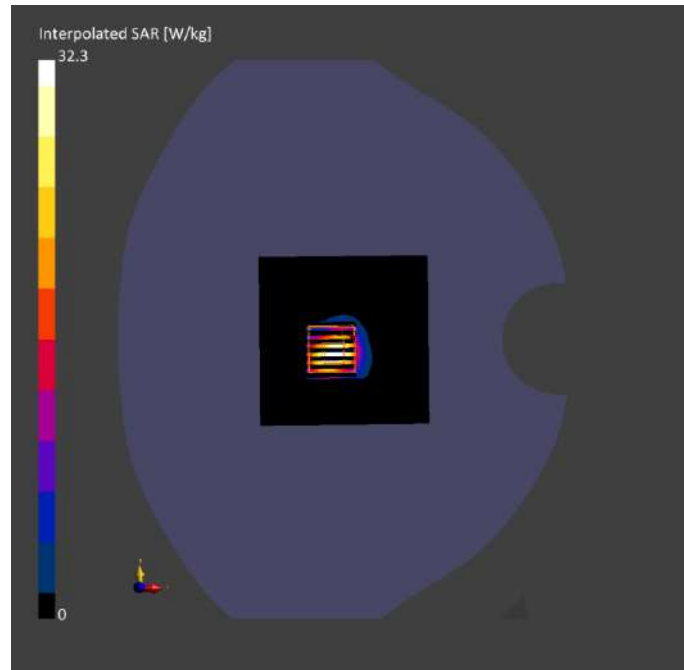
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-27	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

## Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

## Measurement Results

	Area Scan	Zoom Scan
Date	2024-06-27	2024-06-27
psSAR1g [W/kg]	7.54	8.23
psSAR10g [W/kg]	2.06	2.31
Power Drift [dB]	-0.04	0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		64.3
Dist 3dB Peak [mm]		7.6



# System Performance Check Data (5600MHz)

## Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D5GHZV2, SPEAG	10.0 x 10.0 x 3.0	Dipole

## 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		D5GH	CW, 0--	5600.0, 60	4.58	5.10	35.7	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 2024-06-28	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

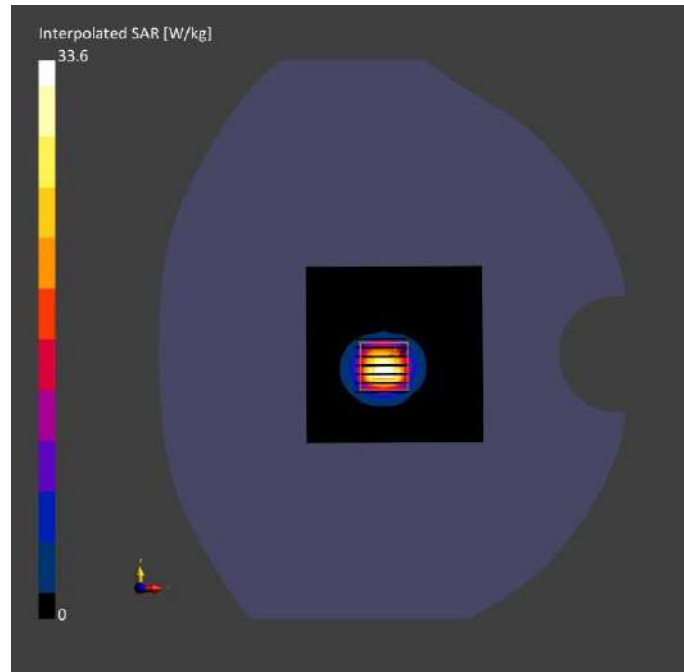
## Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

## Measurement Results

	Area Scan	Zoom Scan
Date	2024-06-28	2024-06-28
psSAR1g [W/kg]	7.62	8.31
psSAR10g [W/kg]	2.25	2.35
Power Drift [dB]	0.01	0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		61.3
Dist 3dB Peak [mm]		7.5





# System Performance Check Data (5800MHz)

## Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D5GHZV2, SPEAG	10.0 x 10.0 x 3.0	Dipole

## 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		D5GHZ	CW, 0--	5800.0, 80	4.78	5.29	35.4	22.3	21.1

## Hardware Setup

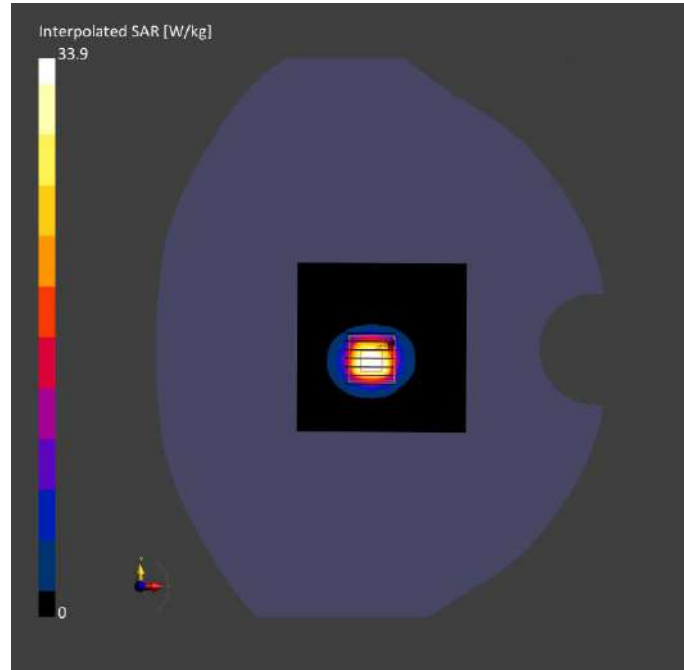
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-29	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

## Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

## Measurement Results

	Area Scan	Zoom Scan
Date	2024-06-29	2024-06-29
psSAR1g [W/kg]	7.89	8.28
psSAR10g [W/kg]	2.15	2.36
Power Drift [dB]	-0.06	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		61.4
Dist 3dB Peak [mm]		7.9



## ANNEX C TEST DATA

### Meas.1 Right Head with Cheek on High Channel in GPRS850 2slots mode with Antenna 1

#### Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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	GSM 850	GSM, 10024-DAC	848.8, 251	9.96	0.936	40.8	22.3	21.3

#### Hardware Setup

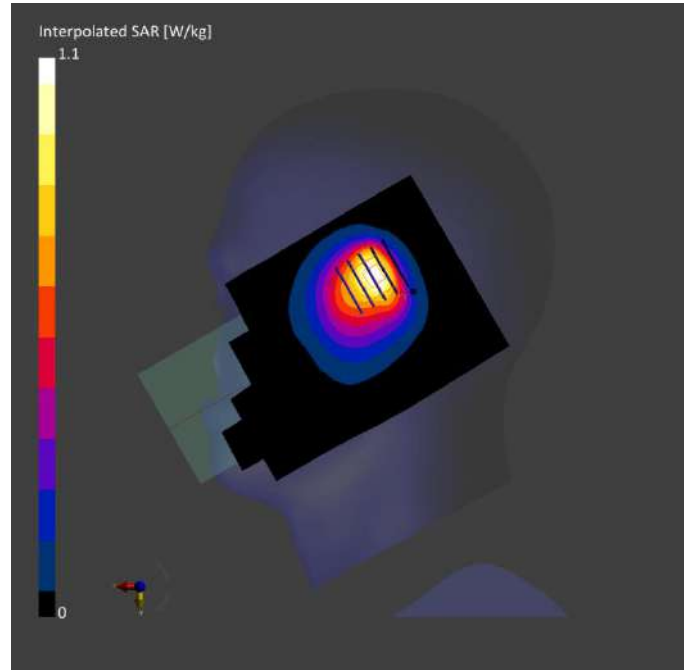
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM (30deg probe tilt) - 1859	V5.0 (30deg HBBL-600-10000 2024-06-07	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

#### 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	2024-06-07	2024-06-07
psSAR1g [W/kg]	0.633	0.610
psSAR10g [W/kg]	0.400	0.386
Power Drift [dB]	-0.01	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		49.3
Dist 3dB Peak [mm]		8.6



**Meas.2 Body Plane with Back Side 15mm on High Channel in GPRS850 2slots mode with Antenna 0**  
**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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	BACK, 15.00	GSM 850	GSM, 10024-DAC	848.8, 251	9.96	0.936	40.8	22.3	21.3

**Hardware Setup**

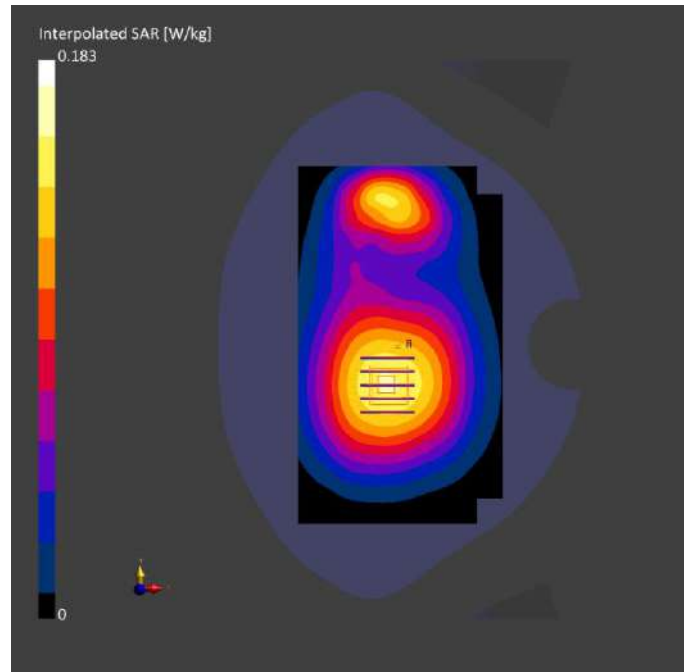
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-07	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	2024-06-07	2024-06-07
psSAR1g [W/kg]	0.136	0.144
psSAR10g [W/kg]	0.096	0.110
Power Drift [dB]	0.01	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		78.0
Dist 3dB Peak [mm]		> 16.0



**Meas.3 Body Plane with Back Side 10mm on High Channel in GPRS850 2slots mode with Antenna 0**  
**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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	BACK, 10.00	GSM 850	GSM, 10024-DAC	848.8, 251	9.96	0.936	40.8	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 2024-06-07	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

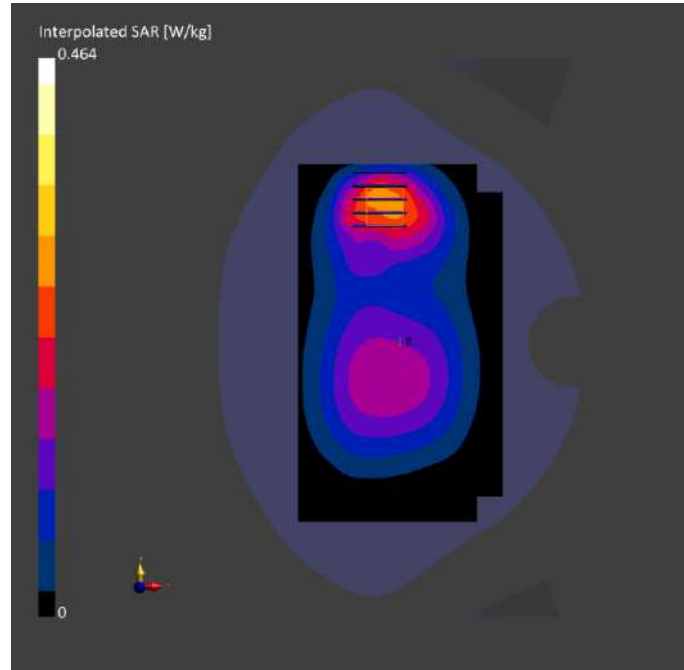
**Scan Setup**

	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	2024-06-07	2024-06-07
psSAR1g [W/kg]	0.263	0.283
psSAR10g [W/kg]	0.176	0.170
Power Drift [dB]	0.00	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		62.0
Dist 3dB Peak [mm]		12.8





**Meas.4 Right Head with Tilt on Middle Channel in GPRS1900 2slots mode with Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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	PCS 1900	GSM, 10028-DAC	1880.0, 661	7.98	1.41	40.3	22.3	21.3

**Hardware Setup**

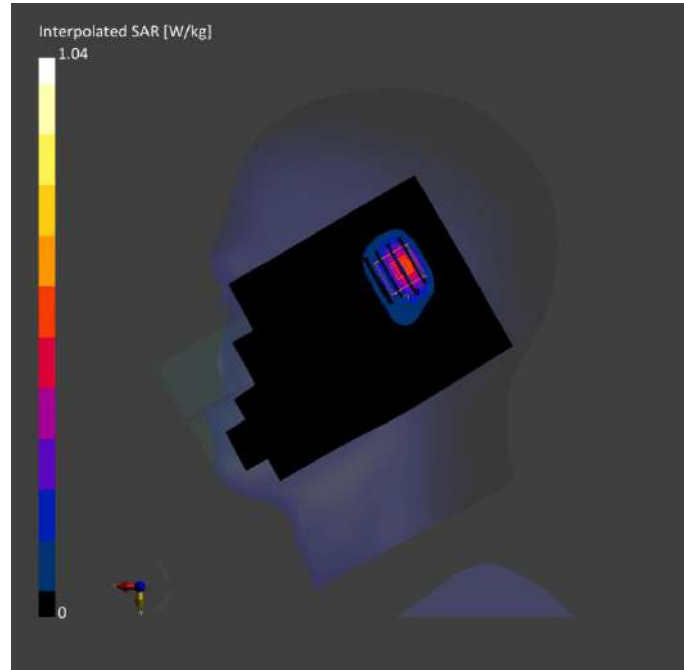
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM (30deg probe tilt) - V5.0 - 1859	HBBL-600-10000 2024-06-14	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-14	2024-06-14
psSAR1g [W/kg]	0.435	0.564
psSAR10g [W/kg]	0.210	0.262
Power Drift [dB]	-0.03	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		56.2
Dist 3dB Peak [mm]		8.0



**Meas.5 Body Plane with Back Side 15mm on Middle Channel in GPRS1900 2slots mode with Antenna 0 Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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, 15.00	PCS 1900	GSM, 10024-DAC	1880.0, 661	7.98	1.41	40.3	22.3	21.3

**Hardware Setup**

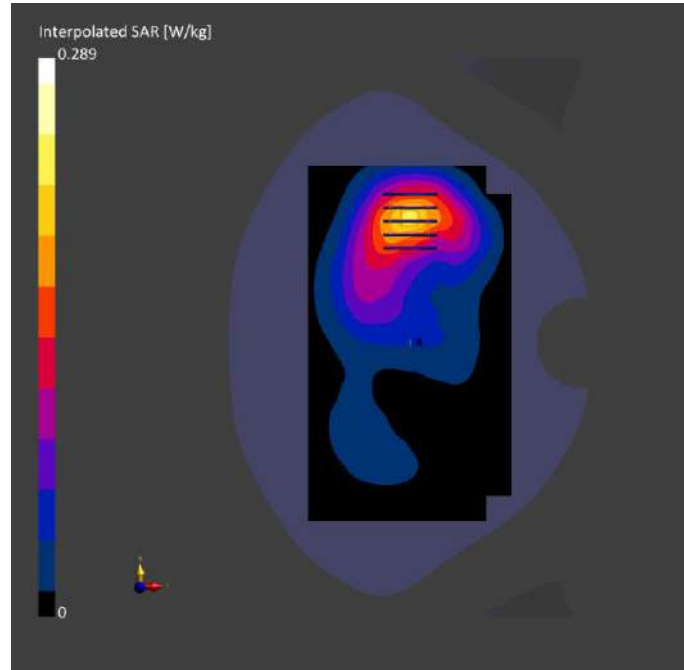
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-14	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	2024-06-14	2024-06-14
psSAR1g [W/kg]	0.186	0.189
psSAR10g [W/kg]	0.110	0.117
Power Drift [dB]	0.00	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		64.2
Dist 3dB Peak [mm]		19.3



**Meas.6 Body Plane with Bottom Edge 10mm on Middle Channel in GPRS1900 2slots mode with Antenna 0**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 x 75.0 x 8.0	Phone

**Exposure Conditions**

Phantom	Position, Test Section, TSL	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	PCS, 1900	GSM, 10024-DAC	1880.0, 661	7.98	1.41	40.3	22.3	21.3

**Hardware Setup**

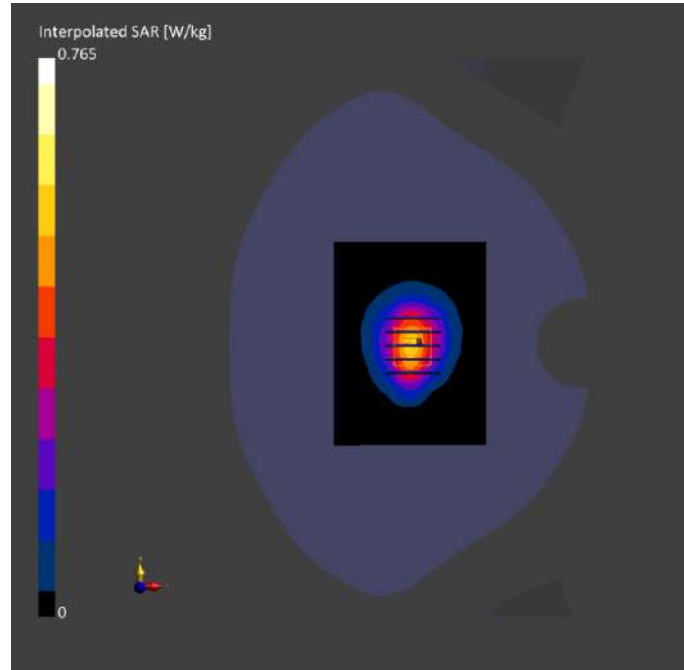
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-14	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-14	2024-06-14
psSAR1g [W/kg]	0.456	0.469
psSAR10g [W/kg]	0.255	0.273
Power Drift [dB]	0.00	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		60.6
Dist 3dB Peak [mm]		14.5



**Meas.7 Body Plane with Top Edge 0mm on Middle Channel in GPRS1900 2slots mode with Antenna 1 Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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, 0.00	PCS, 1900	GSM, 10024-DAC	1880.0, 661	7.98	1.41	40.3	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 2024-06-14	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

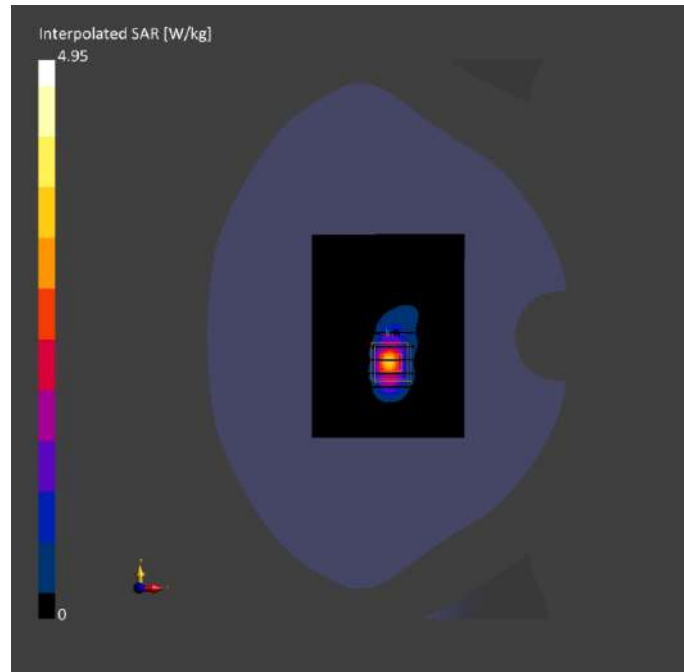
**Scan Setup**

	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	2024-06-14	2024-06-14
psSAR1g [W/kg]	2.54	2.52
psSAR10g [W/kg]	1.09	1.06
Power Drift [dB]	0.02	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		51.9
Dist 3dB Peak [mm]		6.4





**Meas.8 Right Head with Tilt on Low Channel in WCDMA Band2 mode with Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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-CAC	1852.4, 9262	7.98	1.39	40.6	22.3	21.3

**Hardware Setup**

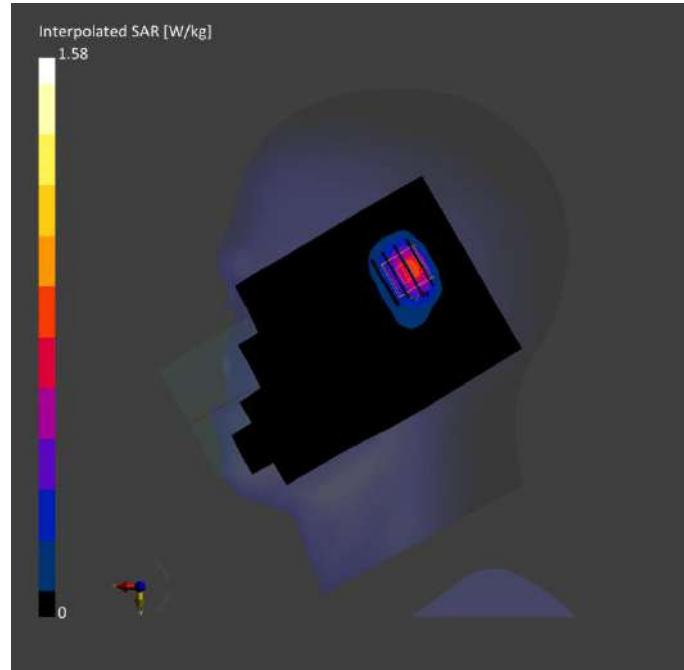
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-14	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	VMS + 6p	VMS + 6p
Detection	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-14	2024-06-14
psSAR1g [W/kg]	0.668	0.894
psSAR10g [W/kg]	0.331	0.421
Power Drift [dB]	0.00	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		58.9
Dist 3dB Peak [mm]		8.0



**Meas.9 Body Plane with Back Side 15mm on Middle Channel in WCDMA Band2 mode with Antenna 0 Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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, 15.00	Band 2	WCDMA, 10011-CAC	1880.0, 9400	7.98	1.41	40.3	22.3	21.3

**Hardware Setup**

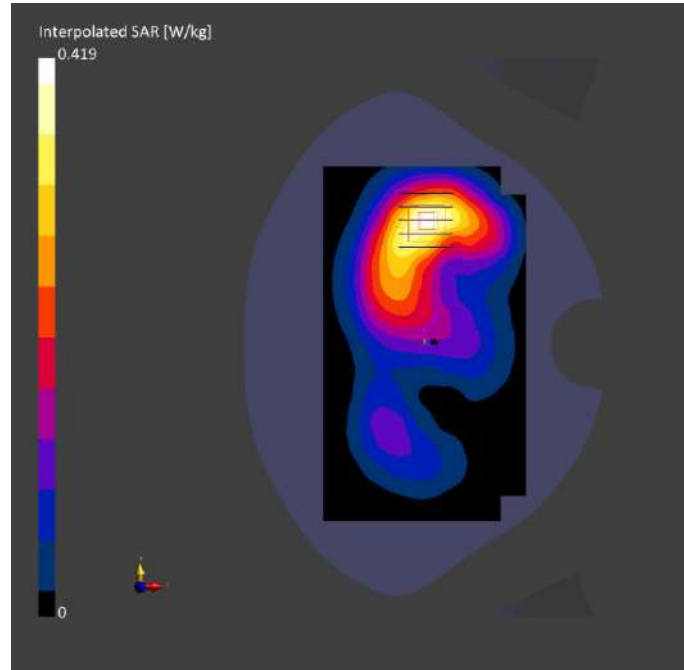
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-14	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-14	2024-06-14
psSAR1g [W/kg]	0.263	0.273
psSAR10g [W/kg]	0.156	0.170
Power Drift [dB]	0.00	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor		
[dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		64.2
Dist 3dB Peak [mm]		17.9



**Meas.10 Body Plane with Top Edge 10mm on Middle Channel in WCDMA Band2 mode with Antenna 1 Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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-CAC	1880.0, 9400	7.98	1.41	40.3	22.3	21.3

**Hardware Setup**

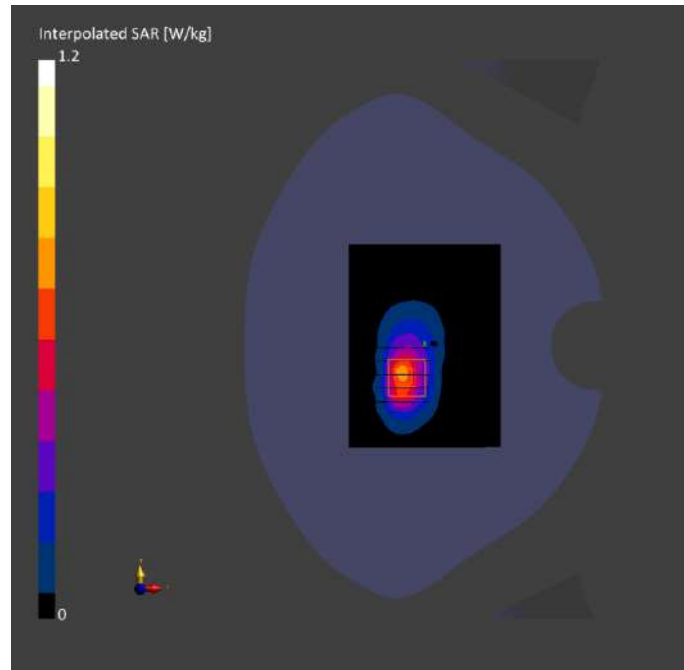
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-14	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-14	2024-06-14
psSAR1g [W/kg]	0.603	0.712
psSAR10g [W/kg]	0.315	0.368
Power Drift [dB]	0.02	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		60.9
Dist 3dB Peak [mm]		9.6



**Meas.11 Body Plane with Back Side 0mm on Middle Channel in WCDMA Band2 mode with Antenna 0 Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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, 0.00	Band 2	WCDMA, 10011-CAC	1880.0, 9400	7.98	1.41	40.3	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 2024-06-14	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

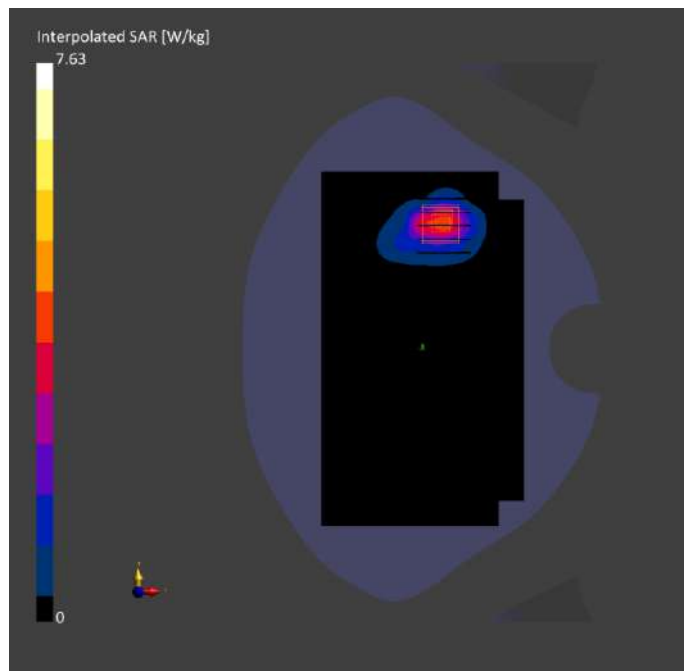
**Scan Setup**

	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	VMS + 6p	VMS + 6p
Detection	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-14	2024-06-14
psSAR1g [W/kg]	3.39	3.72
psSAR10g [W/kg]	1.78	1.92
Power Drift [dB]	0.00	0.01
Power Scaling	Disabled	Disabled
Scaling Factor		
[dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		37.5
Dist 3dB Peak [mm]		6.6





**Meas.12 Right Head with Tilt on Middle Channel in WCDMA Band4 mode with Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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 4	WCDMA, 10011-CAC	1732.4, 1412	8.52	1.36	40.2	22.4	21.2

**Hardware Setup**

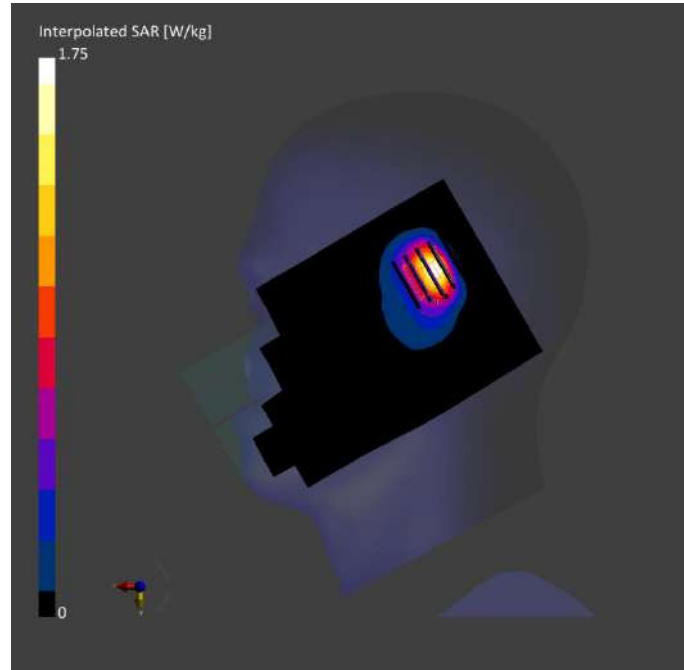
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-11	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	VMS + 6p	VMS + 6p
Detection	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-11	2024-06-11
psSAR1g [W/kg]	0.733	0.984
psSAR10g [W/kg]	0.366	0.468
Power Drift [dB]	0.00	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		58.5
Dist 3dB Peak [mm]		8.0



**Meas.13 Body Plane with Back Side 15mm on Low Channel in WCDMA Band4 mode with Antenna 0 Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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, 15.00	Band 4	WCDMA, 10011-CAC	1712.4, 1312	8.52	1.32	40.6	22.4	21.2

**Hardware Setup**

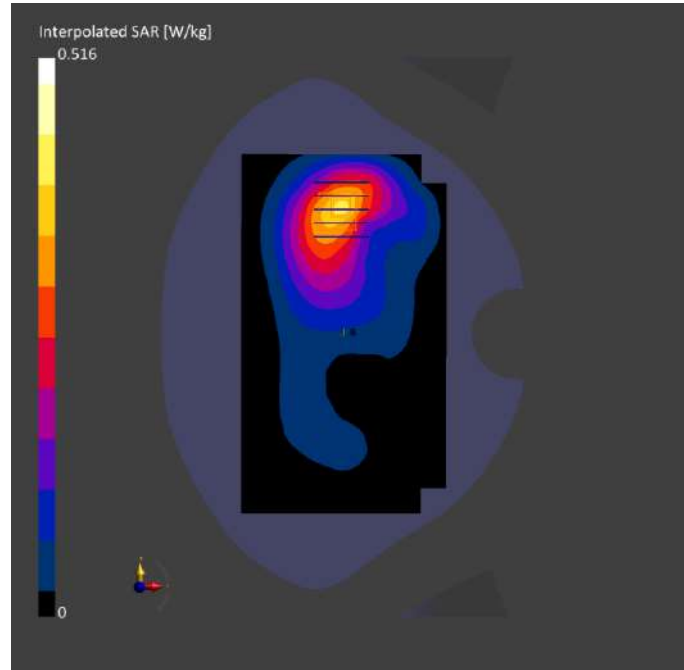
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-11	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	2024-06-11	2024-06-11
psSAR1g [W/kg]	0.333	0.345
psSAR10g [W/kg]	0.201	0.220
Power Drift [dB]	0.00	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		66.4
Dist 3dB Peak [mm]		17.0



**Meas.14 Body Plane with Bottom Edge 10mm on Low Channel in WCDMA Band4 mode with Antenna 0 Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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-CAC	1712.4, 1312	8.52	1.32	40.6	22.4	21.2

**Hardware Setup**

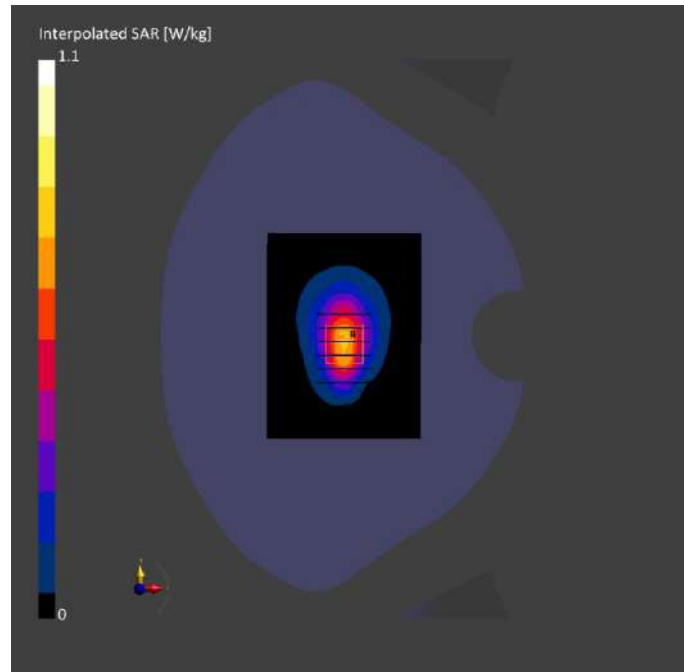
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-11	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-11	2024-06-11
psSAR1g [W/kg]	0.635	0.663
psSAR10g [W/kg]	0.351	0.377
Power Drift [dB]	0.00	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		58.6
Dist 3dB Peak [mm]		11.2



**Meas.15 Body Plane with Back Side 0mm on Low Channel in WCDMA Band4 mode with Antenna 0**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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, 0.00	Band 4	WCDMA, 10011-CAC	1712.4, 1312	8.52	1.32	40.6	22.4	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 2024-06-11	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

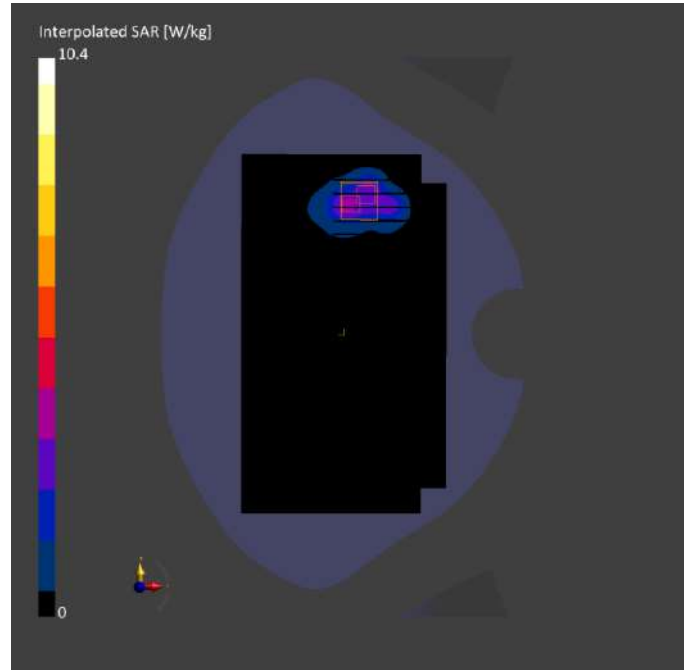
**Scan Setup**

	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	2024-06-11	2024-06-11
psSAR1g [W/kg]	2.99	4.56
psSAR10g [W/kg]	1.66	2.12
Power Drift [dB]	0.00	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		38.1
Dist 3dB Peak [mm]		4.8





**Meas.16 Right Head with Cheek on Low Channel in WCDMA Band5 mode with Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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-CAC	826.4, 4132	9.96	0.881	42.2	22.3	21.3

**Hardware Setup**

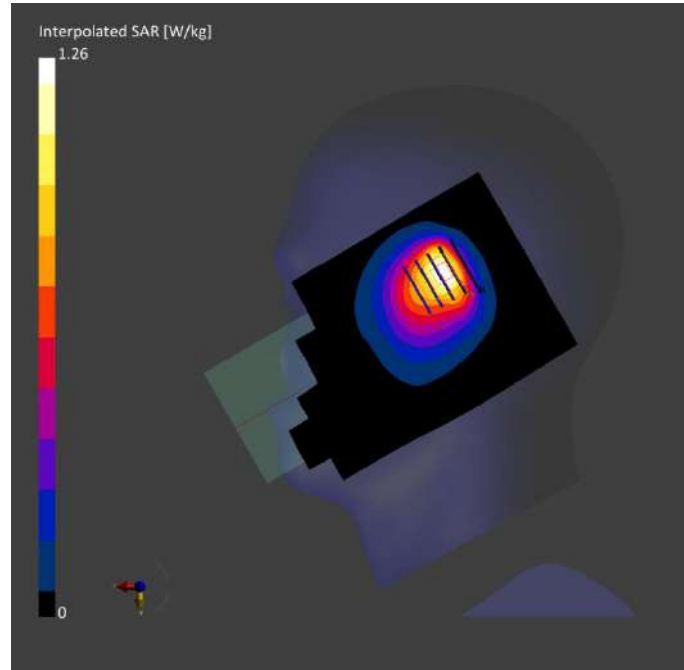
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-07	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	VMS + 6p	VMS + 6p
Detection	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-07	2024-06-07
psSAR1g [W/kg]	0.718	0.690
psSAR10g [W/kg]	0.452	0.433
Power Drift [dB]	0.00	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		49.0
Dist 3dB Peak [mm]		8.2



**Meas.17 Body Plane with Back Side 15mm on High Channel in WCDMA Band5 mode with Antenna 0 Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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, 15.00	Band 5	WCDMA, 10011-CAC	846.6, 4233	9.96	0.923	41.0	22.3	21.3

**Hardware Setup**

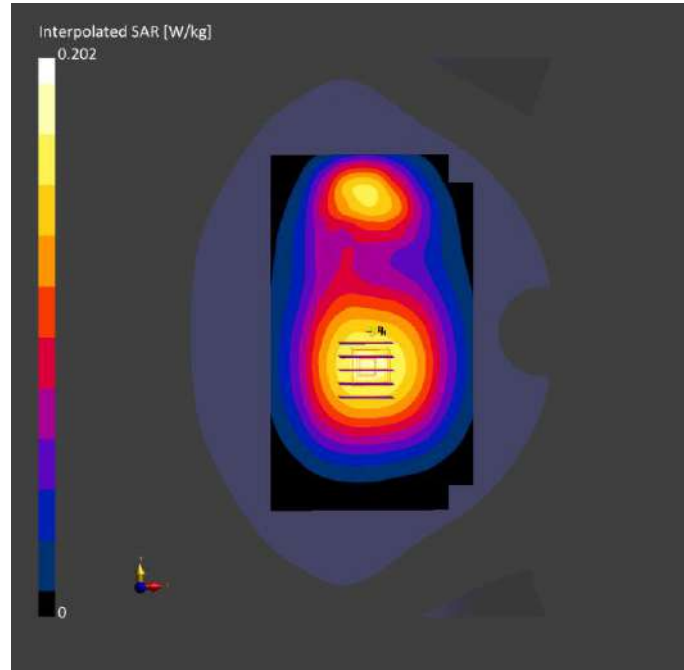
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-07	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	2024-06-07	2024-06-07
psSAR1g [W/kg]	0.152	0.161
psSAR10g [W/kg]	0.108	0.124
Power Drift [dB]	-0.01	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		79.0
Dist 3dB Peak [mm]		> 16.0



**Meas.18 Body Plane with Back Side 10mm on High Channel in WCDMA Band5 mode with Antenna 0 Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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-CAC	846.6, 4233	9.96	0.923	41.0	22.3	21.3

**Hardware Setup**

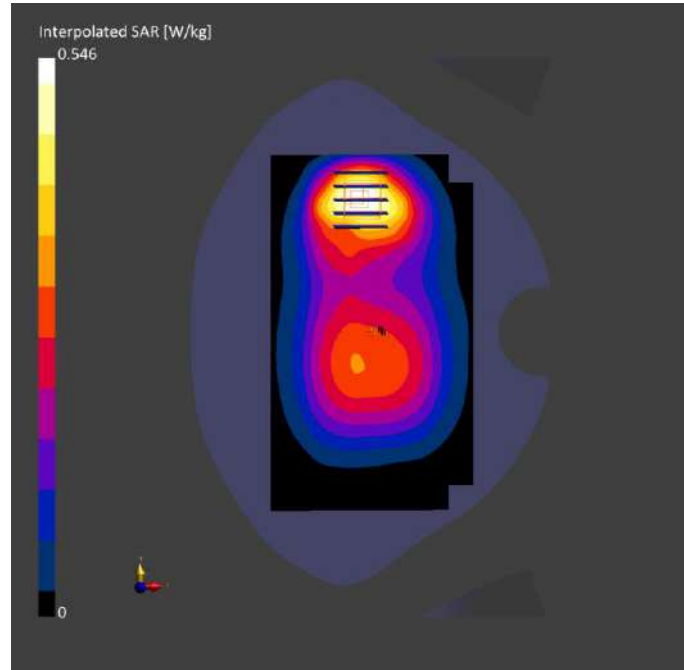
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-07	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	VMS + 6p	VMS + 6p
Detection	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-07	2024-06-07
psSAR1g [W/kg]	0.292	0.316
psSAR10g [W/kg]	0.197	0.188
Power Drift [dB]	0.02	0.01
Power Scaling	Disabled	Disabled
Scaling Factor		
[dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		53.5
Dist 3dB Peak [mm]		12.8



**Meas.19 Right Head with Tilt on Low Channel in LTE Band2 mode with Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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	LTE-FDD, 10169-CAF	1860.0, 18700	7.98	1.37	40.6	22.5	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 2024-06-15	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

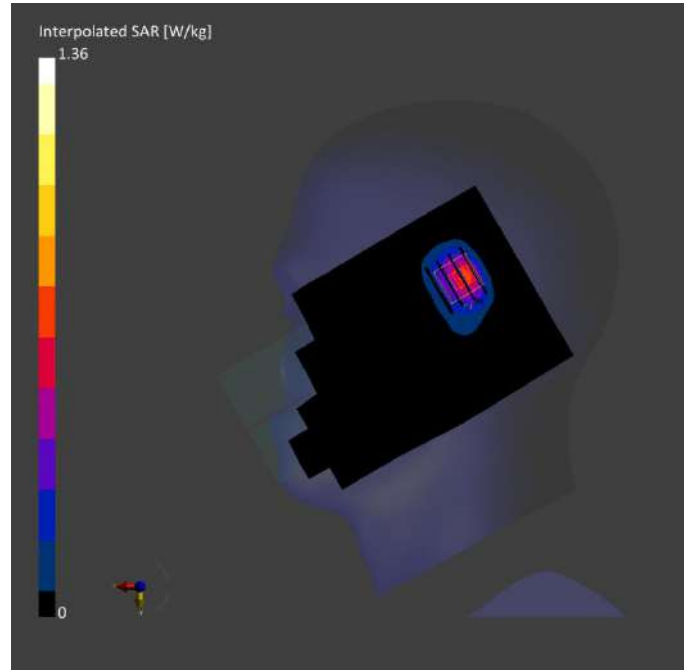
**Scan Setup**

	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	VMS + 6p	VMS + 6p
Detection	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-15	2024-06-15
psSAR1g [W/kg]	0.568	0.770
psSAR10g [W/kg]	0.286	0.363
Power Drift [dB]	0.00	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		60.4
Dist 3dB Peak [mm]		8.0





**Meas.20 Body Plane with Back Side 15mm on Middle Channel in LTE Band2 mode with Antenna 0**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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	BACK, 15.00	Band 2	LTE-FDD, 10169-CAF	1880.0, 18900	7.98	1.39	40.2	22.5	21.3

**Hardware Setup**

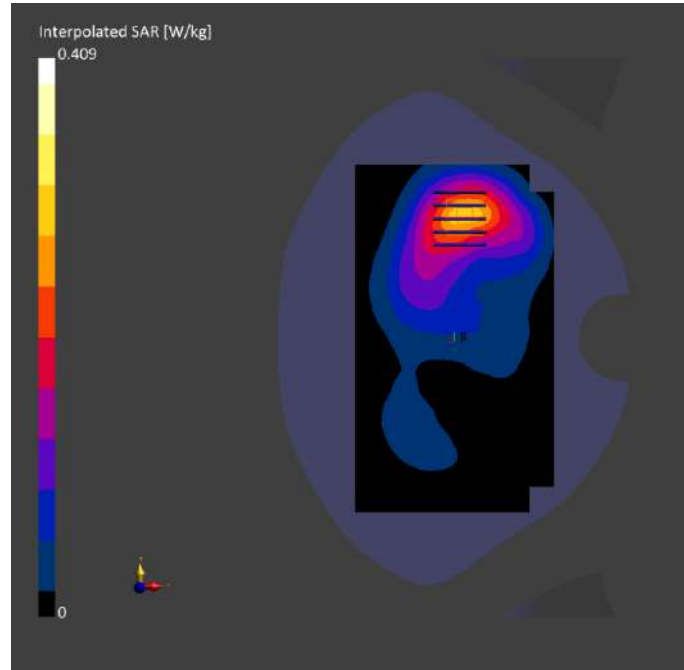
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-15	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	2024-06-15	2024-06-15
psSAR1g [W/kg]	0.245	0.259
psSAR10g [W/kg]	0.146	0.160
Power Drift [dB]	0.01	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		62.2
Dist 3dB Peak [mm]		20.4



**Meas.21 Body Plane with Bottom Edge 10mm on Middle Channel in LTE Band2 mode with Antenna 0**  
**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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 2	LTE-FDD, 10169-CAF	1880.0, 18900	7.98	1.39	40.2	22.5	21.3

**Hardware Setup**

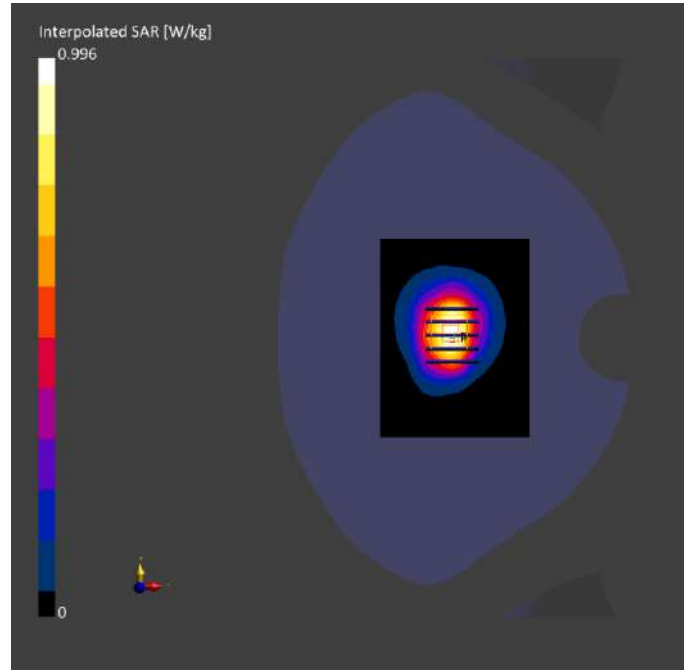
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-15	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-15	2024-06-15
psSAR1g [W/kg]	0.586	0.615
psSAR10g [W/kg]	0.331	0.358
Power Drift [dB]	0.01	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		60.7
Dist 3dB Peak [mm]		14.3



**Meas.22 Right Head with Tilt on High Channel in LTE Band4 mode with Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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 4	LTE-FDD, 10169-CAF	1745.0, 20300	8.52	1.38	39.7	22.4	21.2

**Hardware Setup**

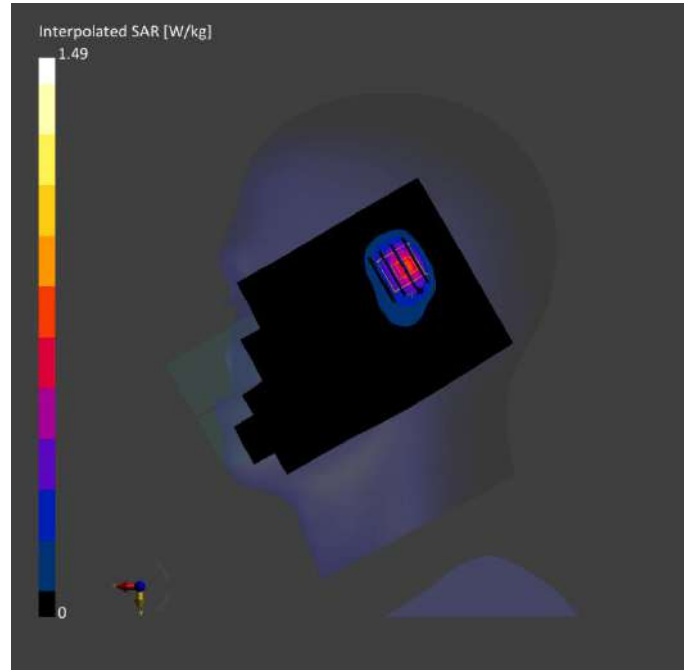
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-11	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	VMS + 6p	VMS + 6p
Detection	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-11	2024-06-11
psSAR1g [W/kg]	0.601	0.844
psSAR10g [W/kg]	0.308	0.402
Power Drift [dB]	0.01	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		59.9
Dist 3dB Peak [mm]		8.0



**Meas.23 Body Plane with Back Side 15mm on Middle Channel in LTE Band4 mode with Antenna 0**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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, 15.00	Band 4	LTE-FDD, 10169-CAF	1732.5, 20175	8.52	1.36	39.9	22.4	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 2024-06-11	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

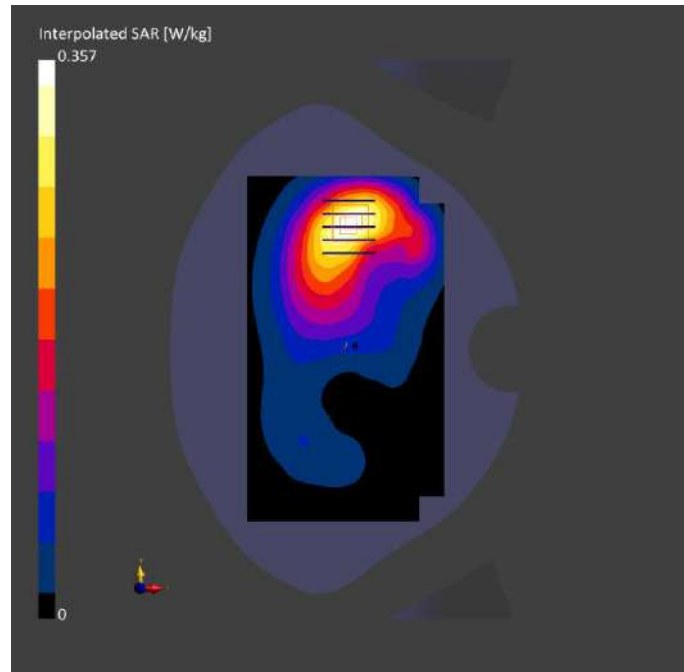
**Scan Setup**

	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	2024-06-11	2024-06-11
psSAR1g [W/kg]	0.218	0.232
psSAR10g [W/kg]	0.132	0.146
Power Drift [dB]	0.02	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		64.8
Dist 3dB Peak [mm]		17.0





**Meas.24 Body Plane with Top Edge 10mm on High Channel in LTE Band4 mode with Antenna 1**  
**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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-CAF	1745.0, 20300	8.52	1.38	39.7	22.4	21.2

**Hardware Setup**

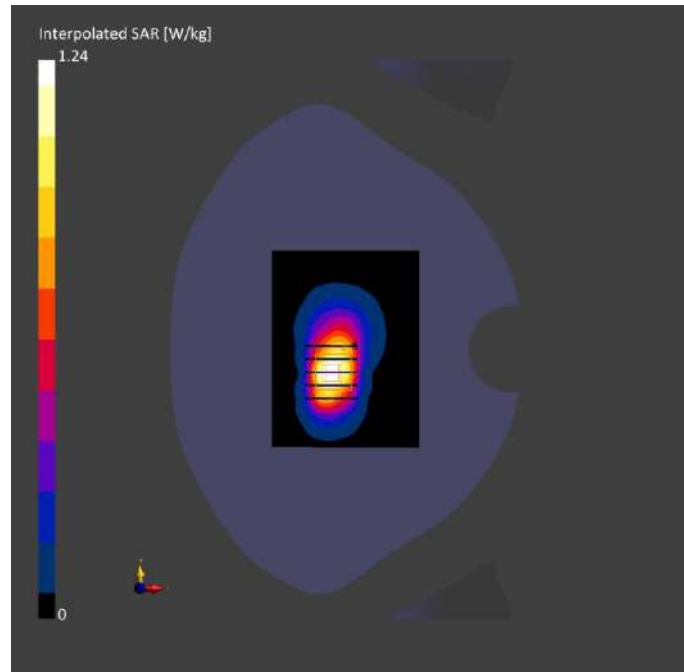
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-11	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-11	2024-06-11
psSAR1g [W/kg]	0.553	0.716
psSAR10g [W/kg]	0.312	0.373
Power Drift [dB]	0.03	0.00
Power Scaling	Disabled	Disabled
Scaling Factor		
[dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		58.5
Dist 3dB Peak [mm]		8.0



**Meas.25 Body Plane with Top Edge 0mm on Middle Channel in LTE Band4 mode with Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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, 0.00	Band 4	LTE-FDD, 10169-CAF	1732.5, 20175	8.52	1.36	39.9	22.4	21.2

**Hardware Setup**

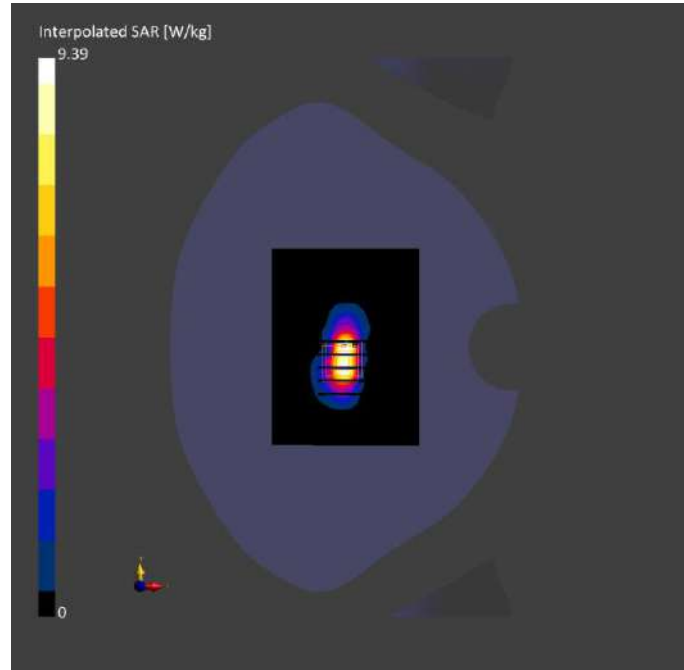
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-11	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-11	2024-06-11
psSAR1g [W/kg]	3.13	3.75
psSAR10g [W/kg]	1.49	1.56
Power Drift [dB]	-0.02	0.00
Power Scaling	Disabled	Disabled
Scaling Factor		
[dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		25.2
Dist 3dB Peak [mm]		4.8



**Meas.26 Right Head with Cheek on Middle Channel in LTE Band5 mode with Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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-CAH	836.5, 20525	9.96	0.906	41.2	22.5	21.4

**Hardware Setup**

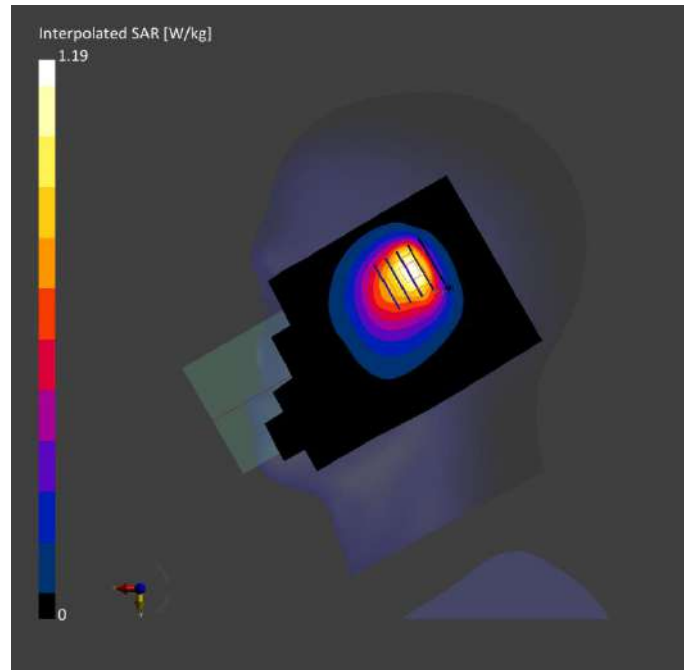
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-08	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	VMS + 6p	VMS + 6p
Detection	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-08	2024-06-08
psSAR1g [W/kg]	0.665	0.643
psSAR10g [W/kg]	0.418	0.400
Power Drift [dB]	0.04	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		48.0
Dist 3dB Peak [mm]		8.0



**Meas.27 Body Plane with Back Side 15mm on Middle Channel in LTE Band5 mode with Antenna 0**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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, 15.00	Band 5	LTE-FDD, 10175-CAH	836.5, 20525	9.96	0.906	41.2	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 2024-06-08	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

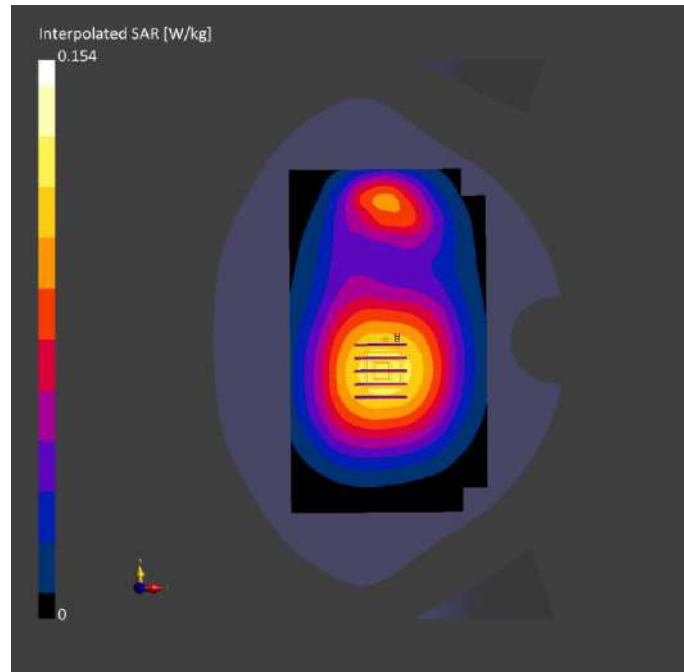
**Scan Setup**

	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	2024-06-08	2024-06-08
psSAR1g [W/kg]	0.110	0.117
psSAR10g [W/kg]	0.078	0.089
Power Drift [dB]	-0.02	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		74.6
Dist 3dB Peak [mm]		> 16.0





**Meas.28 Body Plane with Back Side 10mm on Middle Channel in LTE Band5 mode with Antenna 0**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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	BACK, 10.00	Band 5	LTE-FDD, 10175-CAH	836.5, 20525	9.96	0.906	41.2	22.5	21.4

**Hardware Setup**

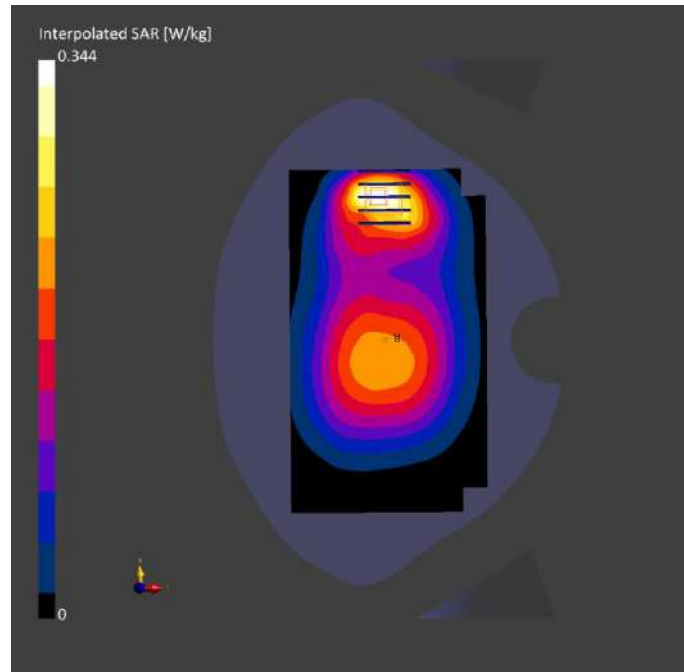
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-08	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	2024-06-08	2024-06-08
psSAR1g [W/kg]	0.186	0.192
psSAR10g [W/kg]	0.120	0.114
Power Drift [dB]	0.01	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		52.7
Dist 3dB Peak [mm]		12.8



**Meas.29 Right Head with Tilt on High Channel in LTE Band7 mode with Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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-CAF	2560.0, 21350	7.41	1.93	39.2	22.4	21.1

**Hardware Setup**

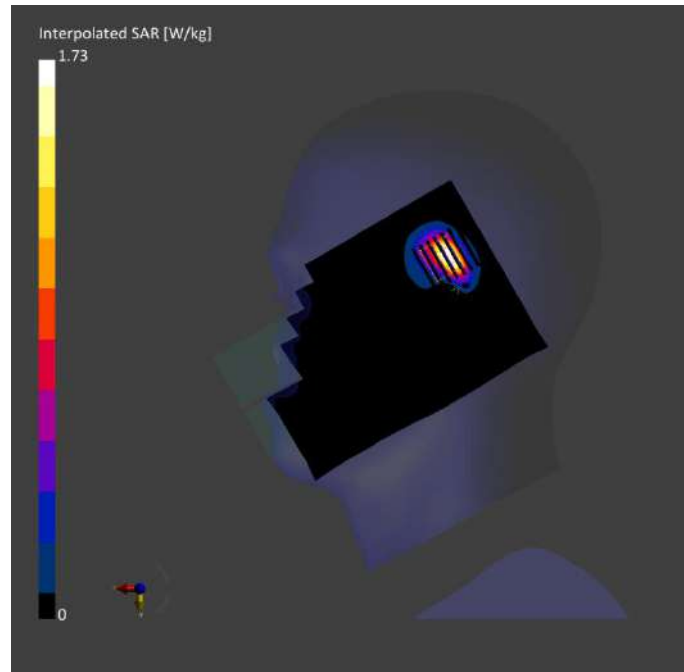
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-17	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	N/A	N/A
Surface	All points	VMS + 6p
Detection		
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-17	2024-06-17
psSAR1g [W/kg]	0.782	0.819
psSAR10g [W/kg]	0.327	0.333
Power Drift [dB]	-0.02	-0.09
Power Scaling	Disabled	Disabled
Scaling Factor		
[dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		49.2
Dist 3dB Peak [mm]		7.0



**Meas.30 Body Plane with Back Side 15mm on High Channel in LTE Band7 mode with Antenna 0**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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, 15.00	Band 7	LTE-FDD, 10169-CAF	2560.0, 21350	7.41	1.93	39.2	22.4	21.1

**Hardware Setup**

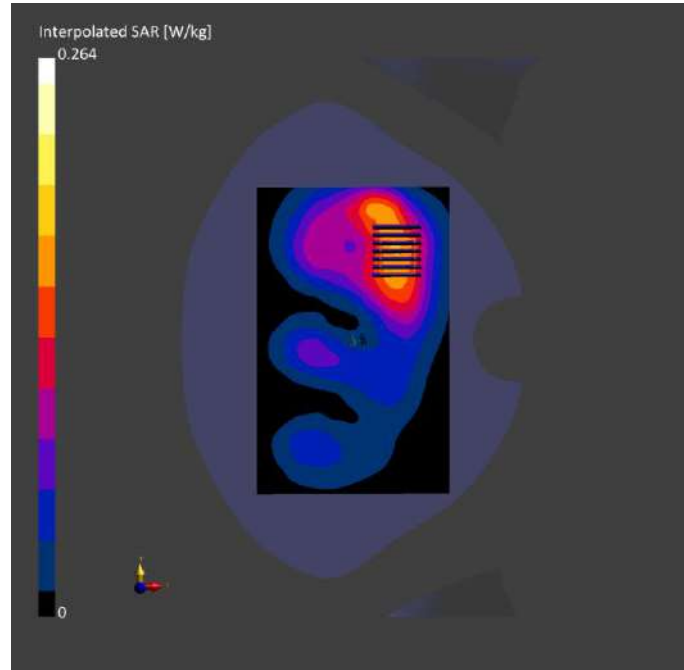
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-17	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	2024-06-17	2024-06-17
psSAR1g [W/kg]	0.146	0.150
psSAR10g [W/kg]	0.083	0.087
Power Drift [dB]	-0.01	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		53.9
Dist 3dB Peak [mm]		20.5



**Meas.31 Body Plane with Top Edge 10mm on High Channel in LTE Band7 mode with Antenna 1**  
**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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 7	LTE-FDD, 10169-CAF	2560.0, 21350	7.41	1.93	39.2	22.4	21.1

**Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-17	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

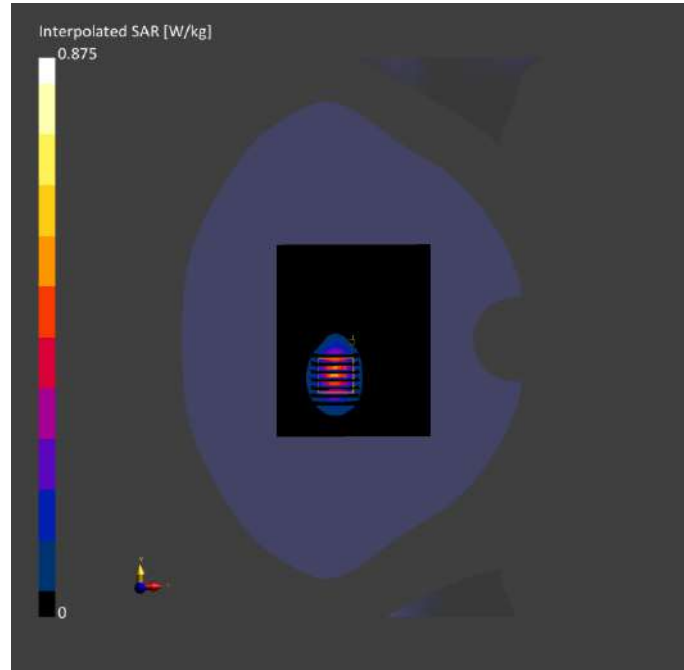
**Scan Setup**

	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	2024-06-17	2024-06-17
psSAR1g [W/kg]	0.419	0.442
psSAR10g [W/kg]	0.184	0.197
Power Drift [dB]	-0.01	0.01
Power Scaling	Disabled	Disabled
Scaling Factor		
[dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		51.2
Dist 3dB Peak [mm]		8.5





**Meas.32 Body Plane with Top Edge 0mm on High Channel in LTE Band7 mode with Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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 7	LTE-FDD, 10169-CAF	2560.0, 21350	7.41	1.93	39.2	22.4	21.1

**Hardware Setup**

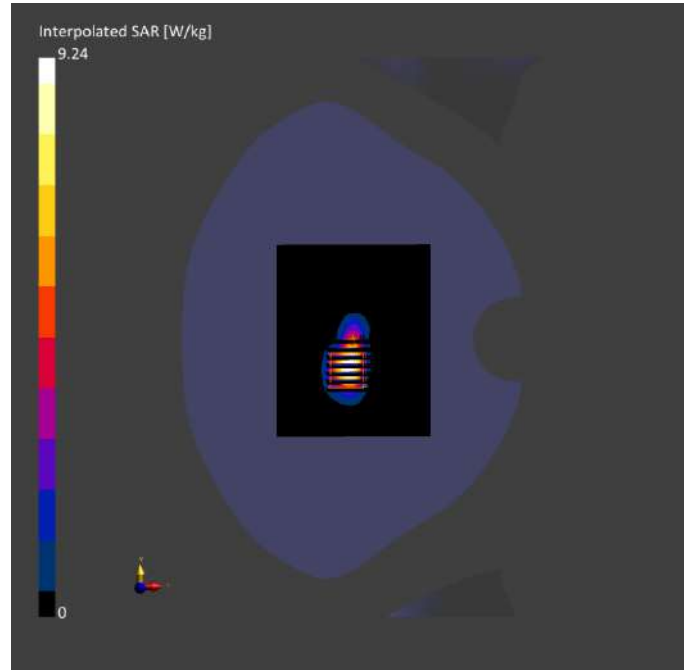
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-17	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-17	2024-06-17
psSAR1g [W/kg]	2.71	3.70
psSAR10g [W/kg]	1.17	1.34
Power Drift [dB]	0.03	0.00
Power Scaling	Disabled	Disabled
Scaling Factor		
[dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		38.4
Dist 3dB Peak [mm]		5.0



**Meas.33 Right Head with Cheek on Middle Channel in LTE Band12 mode with Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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 12	LTE-FDD, 10175-CAH	707.5, 23095	10.31	0.878	42.4	22.3	21.2

**Hardware Setup**

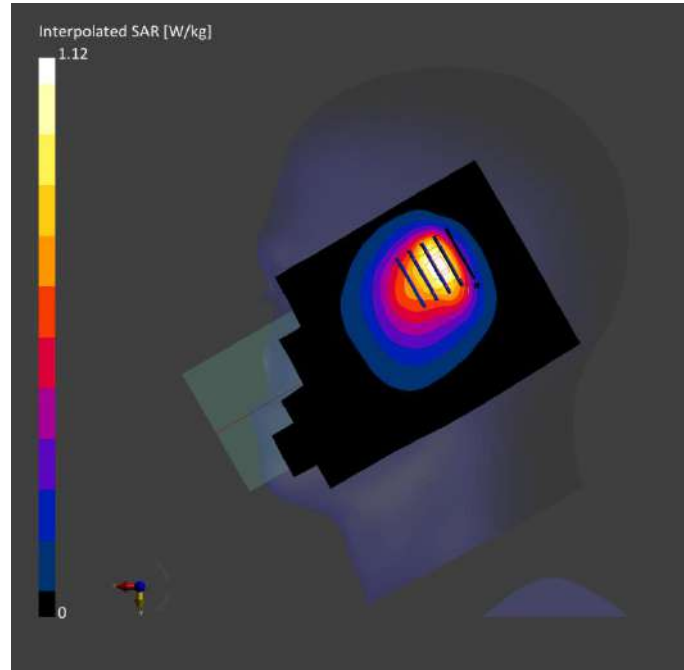
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-05	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	VMS + 6p	VMS + 6p
Detection	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-05	2024-06-05
psSAR1g [W/kg]	0.586	0.567
psSAR10g [W/kg]	0.370	0.341
Power Drift [dB]	0.05	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		44.2
Dist 3dB Peak [mm]		8.0



**Meas.34 Body Plane with Back Side 15mm on Middle Channel in LTE Band12 mode with Antenna 0**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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, 15.00	Band 12	LTE-FDD, 10175-CAH	707.5, 23095	10.31	0.878	42.4	22.3	21.2

**Hardware Setup**

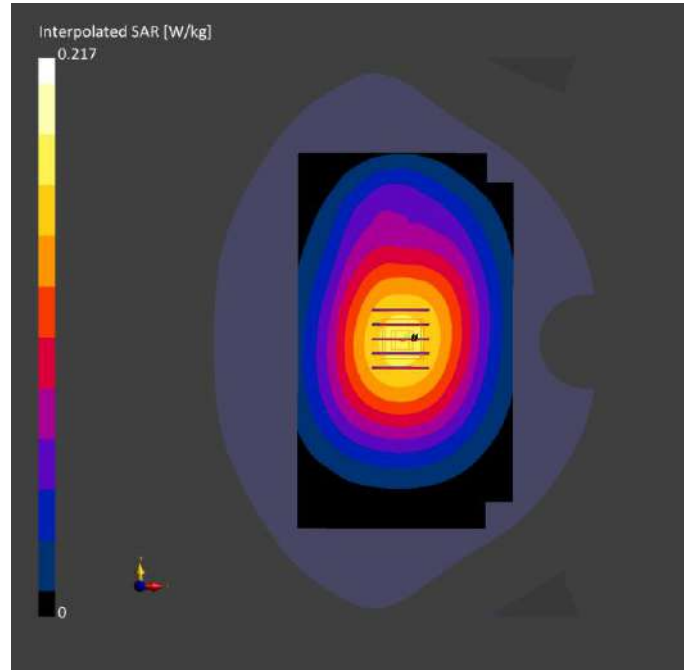
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-05	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	2024-06-05	2024-06-05
psSAR1g [W/kg]	0.152	0.163
psSAR10g [W/kg]	0.109	0.126
Power Drift [dB]	0.01	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		74.8
Dist 3dB Peak [mm]		> 16.0



**Meas.35 Body Plane with Back Side 10mm on Middle Channel in LTE Band12 mode with Antenna 0**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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 12	LTE-FDD, 10175-CAH	707.5, 23095	10.31	0.878	42.4	22.3	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 2024-06-05	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

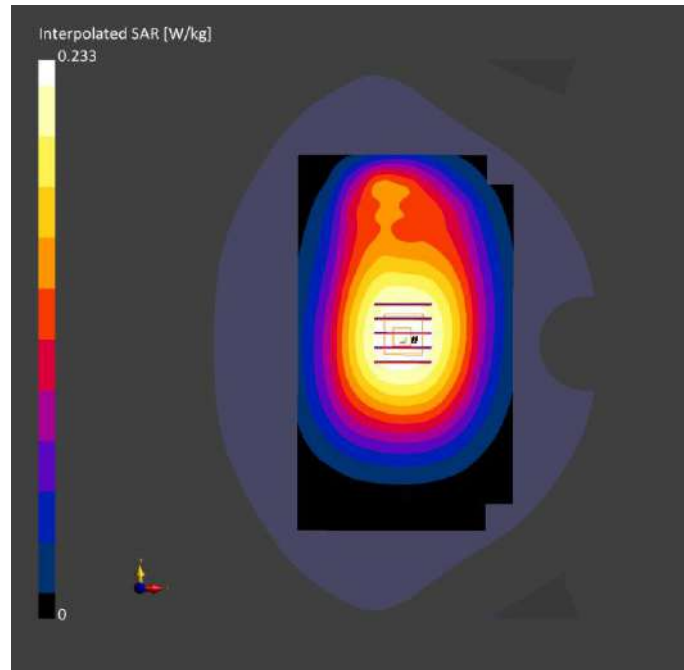
**Scan Setup**

	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	2024-06-05	2024-06-05
psSAR1g [W/kg]	0.165	0.177
psSAR10g [W/kg]	0.119	0.137
Power Drift [dB]	-0.01	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		75.3
Dist 3dB Peak [mm]		> 16.0





**Meas.36 Right Head with Cheek on Middle Channel in LTE Band13 mode with Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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-CAH	782.0, 23230	10.31	0.919	41.9	22.3	21.2

**Hardware Setup**

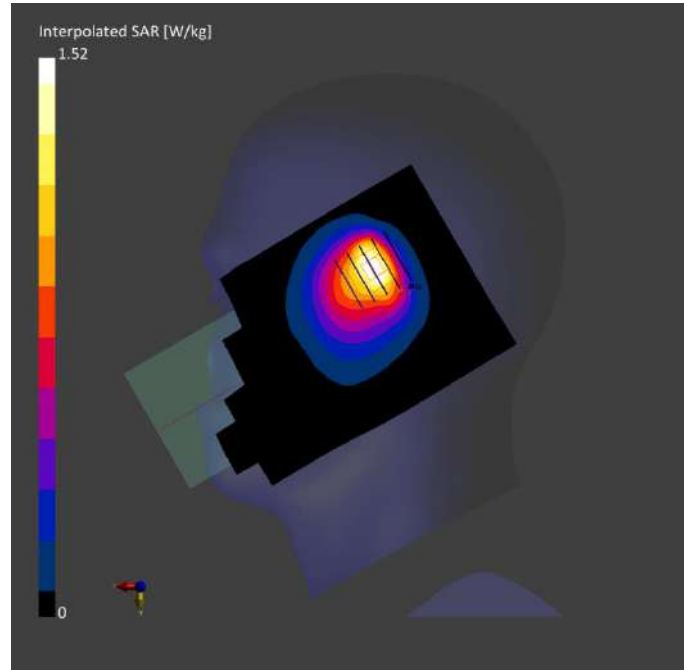
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-05	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	2024-06-05	2024-06-05
psSAR1g [W/kg]	0.833	0.801
psSAR10g [W/kg]	0.522	0.490
Power Drift [dB]	0.01	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		46.1
Dist 3dB Peak [mm]		8.0



**Meas.37 Body Plane with Back Side 15mm on Middle Channel in LTE Band13 mode with Antenna 0**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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	BACK, 15.00	Band 13	LTE-FDD, 10175-CAH	782.0, 23230	10.31	0.919	41.9	22.3	21.2

**Hardware Setup**

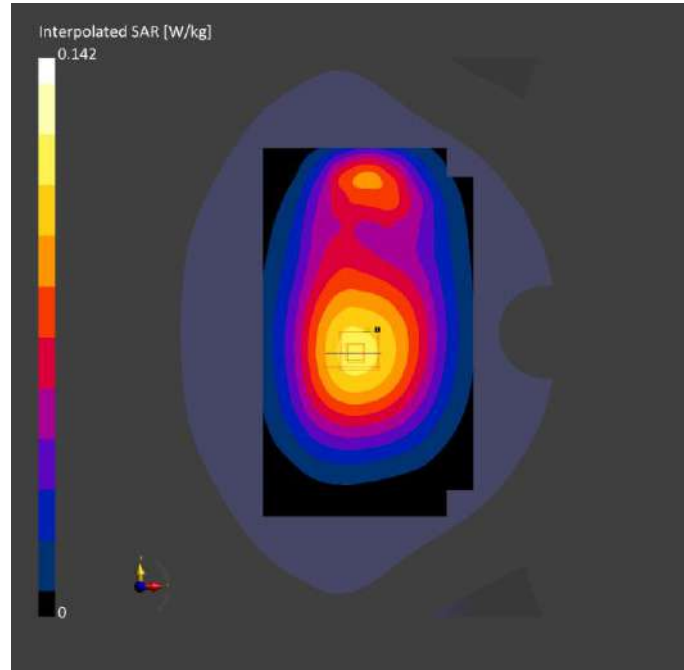
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-05	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	2024-06-05	2024-06-05
psSAR1g [W/kg]	0.099	0.106
psSAR10g [W/kg]	0.070	0.081
Power Drift [dB]	0.01	0.01
Power Scaling	Disabled	Disabled
Scaling Factor		
[dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		73.9
Dist 3dB Peak [mm]		> 16.0



**Meas.38 Body Plane with Back Side 10mm on Middle Channel in LTE Band13 mode with Antenna 1**  
**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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-CAH	782.0, 23230	10.31	0.919	41.9	22.3	21.2

**Hardware Setup**

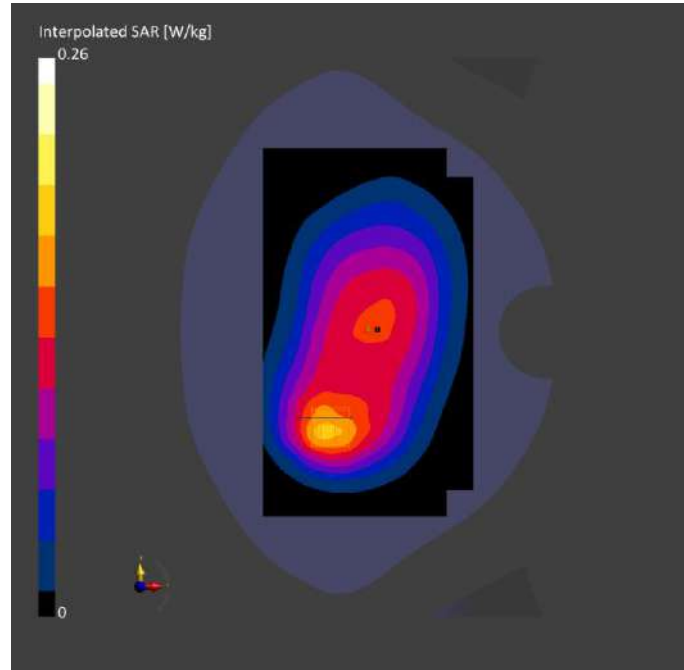
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-05	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	2024-06-05	2024-06-05
psSAR1g [W/kg]	0.159	0.164
psSAR10g [W/kg]	0.107	0.107
Power Drift [dB]	-0.02	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		62.6
Dist 3dB Peak [mm]		17.0



**Meas.39 Right Head with Cheek on Low Channel in LTE Band17 mode with Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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 17	LTE-FDD, 10175-CAH	709.0, 23780	10.31	0.891	42.3	22.4	21.3

**Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-06	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

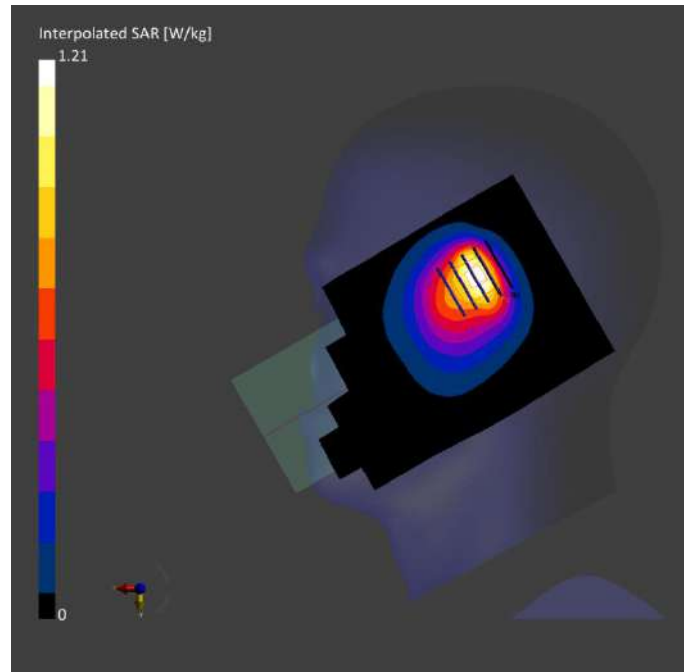
**Scan Setup**

	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	VMS + 6p	VMS + 6p
Detection	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-06	2024-06-06
psSAR1g [W/kg]	0.596	0.593
psSAR10g [W/kg]	0.376	0.354
Power Drift [dB]	0.08	0.01
Power Scaling	Disabled	Disabled
Scaling Factor		
[dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		42.5
Dist 3dB Peak [mm]		8.0





**Meas.40 Body Plane with Back Side 15mm on Low Channel in LTE Band17 mode with Antenna 0**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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, 15.00	Band 17	LTE-FDD, 10175-CAH	709.0, 23780	10.31	0.891	42.3	22.4	21.3

**Hardware Setup**

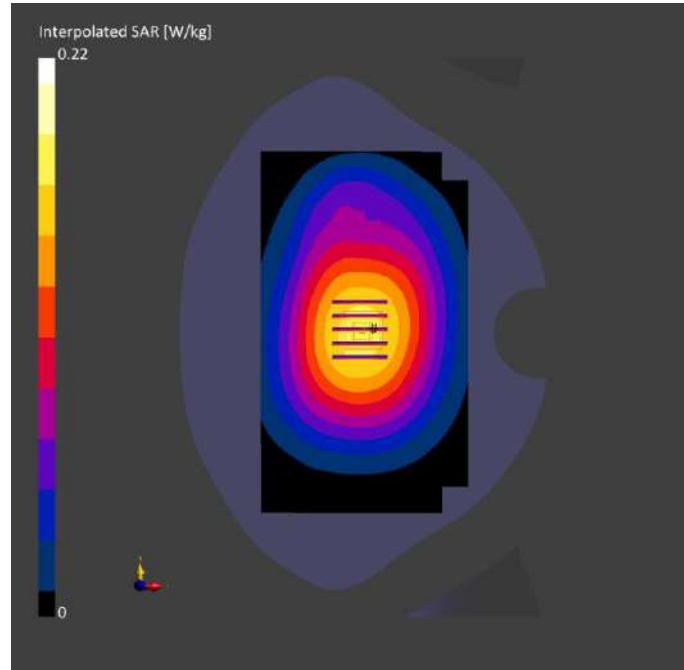
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-06	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	2024-06-06	2024-06-06
psSAR1g [W/kg]	0.155	0.165
psSAR10g [W/kg]	0.111	0.127
Power Drift [dB]	0.02	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		74.8
Dist 3dB Peak [mm]		> 16.0



**Meas.41 Body Plane with Back Side 10mm on Low Channel in LTE Band17 mode with Antenna 0**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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	BACK, 10.00	Band 17	LTE-FDD, 10175-CAH	709.0, 23780	10.31	0.891	42.3	22.4	21.3

**Hardware Setup**

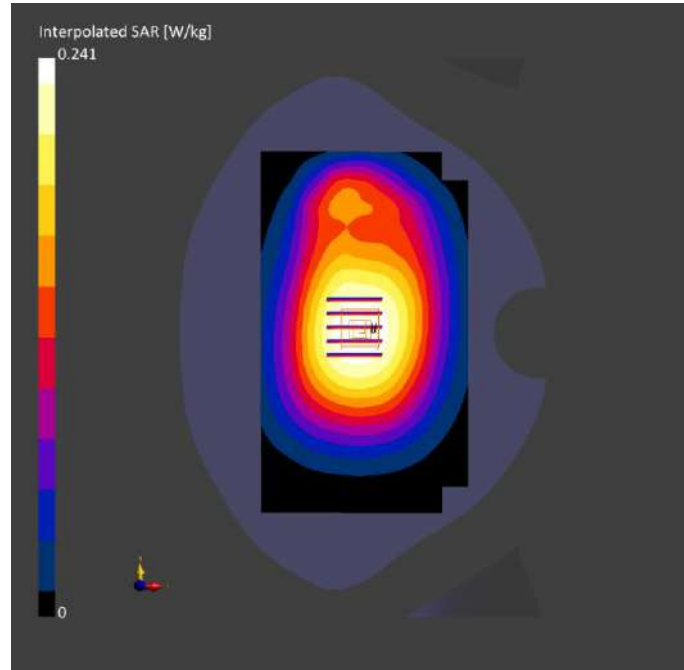
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-06	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	2024-06-06	2024-06-06
psSAR1g [W/kg]	0.169	0.182
psSAR10g [W/kg]	0.122	0.141
Power Drift [dB]	0.03	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		75.2
Dist 3dB Peak [mm]		> 16.0



**Meas.42 Right Head with Cheek on Middle Channel in LTE Band26 mode with Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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-CAF	831.5, 26865	9.96	0.902	41.6	22.5	21.4

**Hardware Setup**

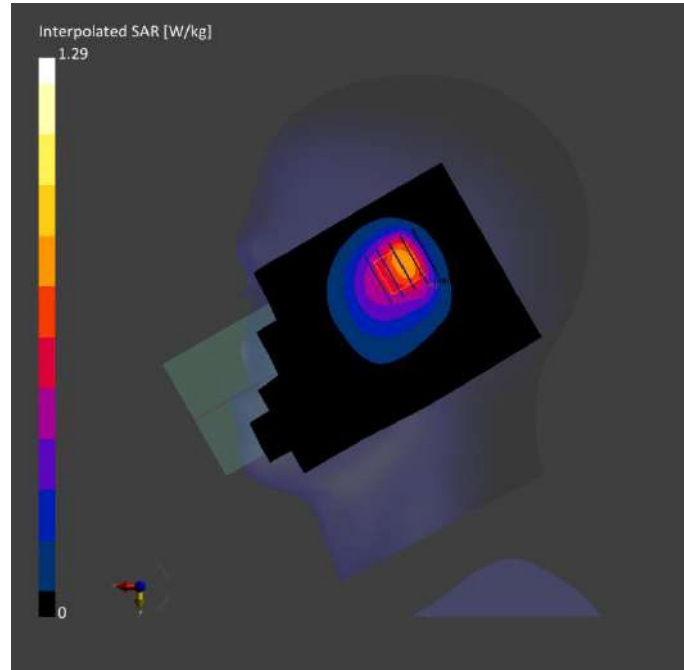
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-08	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	VMS + 6p	VMS + 6p
Detection	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-08	2024-06-08
psSAR1g [W/kg]	0.717	0.699
psSAR10g [W/kg]	0.451	0.433
Power Drift [dB]	0.03	0.01
Power Scaling	Disabled	Disabled
Scaling Factor		
[dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		48.4
Dist 3dB Peak [mm]		8.2



**Meas.43 Body Plane with Back Side 15mm on Middle Channel in LTE Band26 mode with Antenna 0**  
**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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, 15.00	Band 26	LTE-FDD, 10181-CAF	831.5, 26865	9.96	0.902	41.6	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 2024-06-08	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

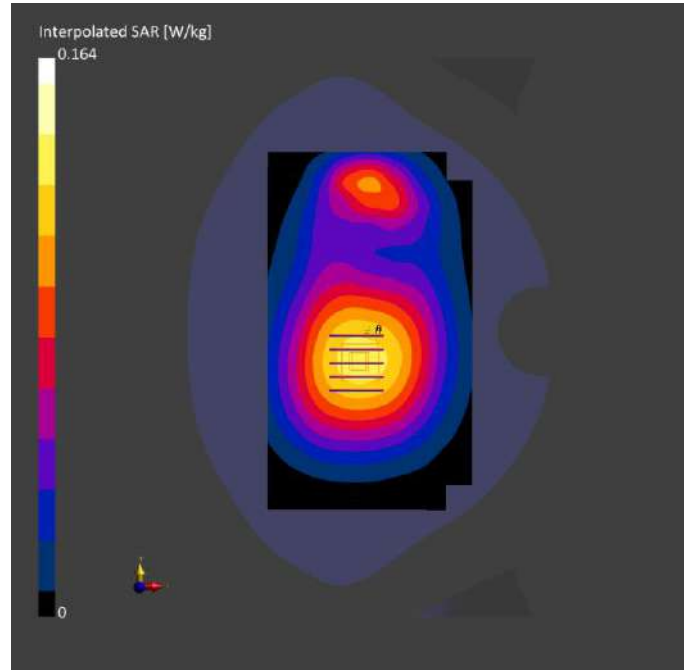
**Scan Setup**

	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	2024-06-08	2024-06-08
psSAR1g [W/kg]	0.116	0.123
psSAR10g [W/kg]	0.082	0.094
Power Drift [dB]	0.00	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		74.2
Dist 3dB Peak [mm]		> 16.0





**Meas.44 Body Plane with Back Side 10mm on Middle Channel in LTE Band26 mode with Antenna 0**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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	BACK, 10.00	Band 26	LTE-FDD, 10181-CAF	831.5, 26865	9.96	0.902	41.6	22.5	21.4

**Hardware Setup**

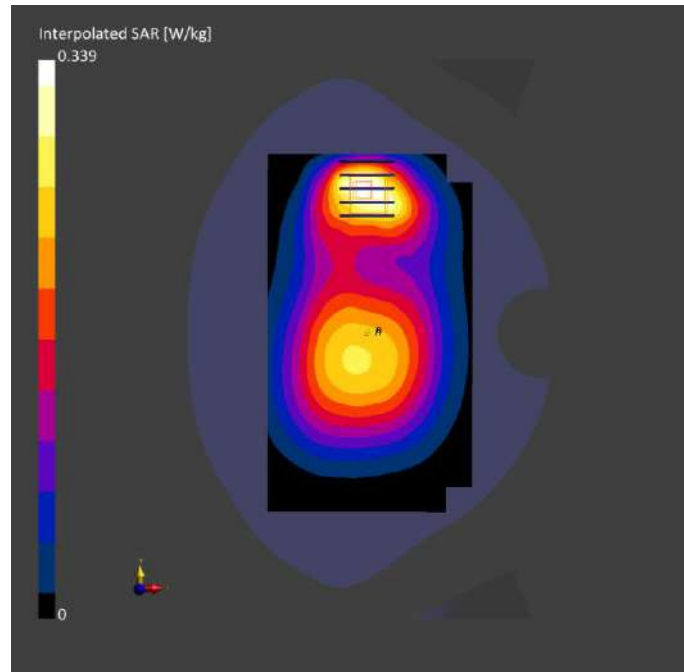
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-08	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	2024-06-08	2024-06-08
psSAR1g [W/kg]	0.171	0.190
psSAR10g [W/kg]	0.114	0.113
Power Drift [dB]	0.00	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		52.8
Dist 3dB Peak [mm]		11.6



**Meas.45 Right Head with Tilt on Middle Channel in LTE Band66 mode with Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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-CAF	1745.0, 132322	8.52	1.36	40.4	22.5	21.5

**Hardware Setup**

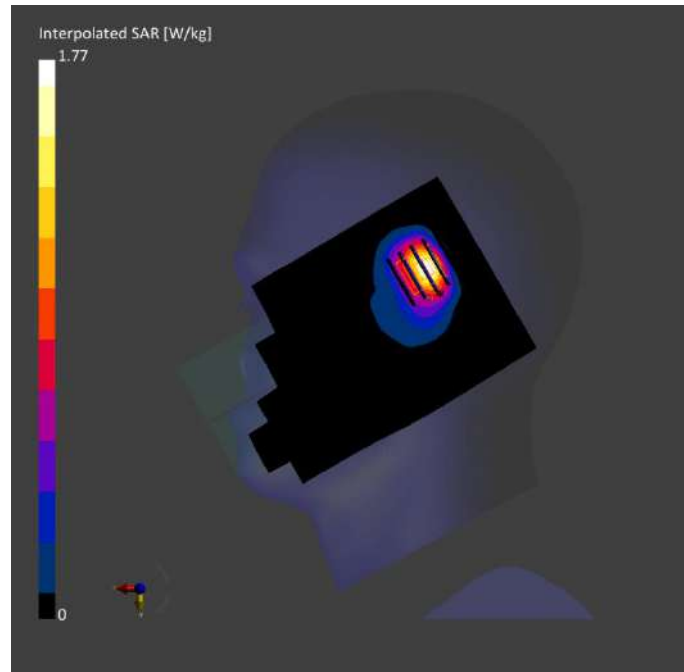
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-12	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	VMS + 6p	VMS + 6p
Detection	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-12	2024-06-12
psSAR1g [W/kg]	0.719	1.00
psSAR10g [W/kg]	0.369	0.479
Power Drift [dB]	-0.02	0.00
Power Scaling	Disabled	Disabled
Scaling Factor		
[dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		59.8
Dist 3dB Peak [mm]		8.0



**Meas.46 Body Plane with Back Side 15mm on Middle Channel in LTE Band66 mode with Antenna 1**  
**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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, 15.00	Band 66	LTE-FDD, 10169-CAF	1745.0, 132322	8.52	1.36	40.4	22.5	21.5

**Hardware Setup**

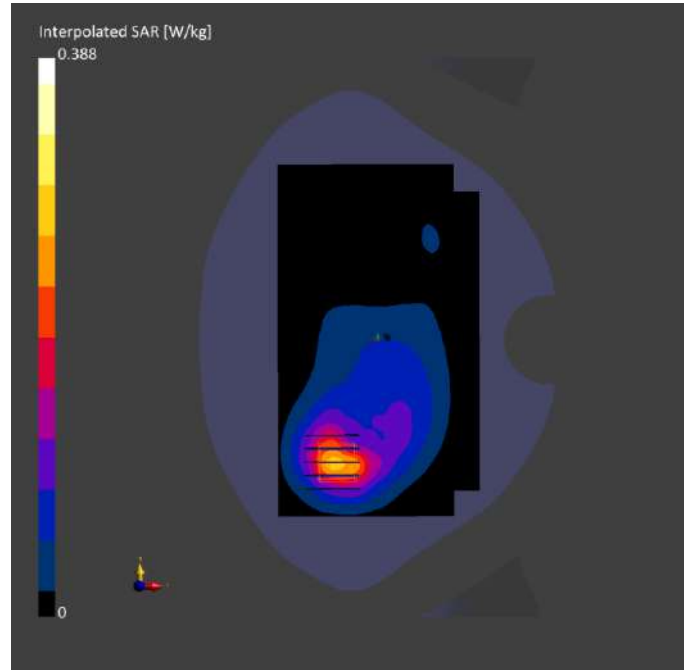
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-12	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	2024-06-12	2024-06-12
psSAR1g [W/kg]	0.226	0.241
psSAR10g [W/kg]	0.129	0.140
Power Drift [dB]	-0.05	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		61.3
Dist 3dB Peak [mm]		13.6



**Meas.47 Body Plane with Top Edge 10mm on Middle Channel in LTE Band66 mode with Antenna 1**  
**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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-CAF	1745.0, 132322	8.52	1.36	40.4	22.5	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 2024-06-12	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

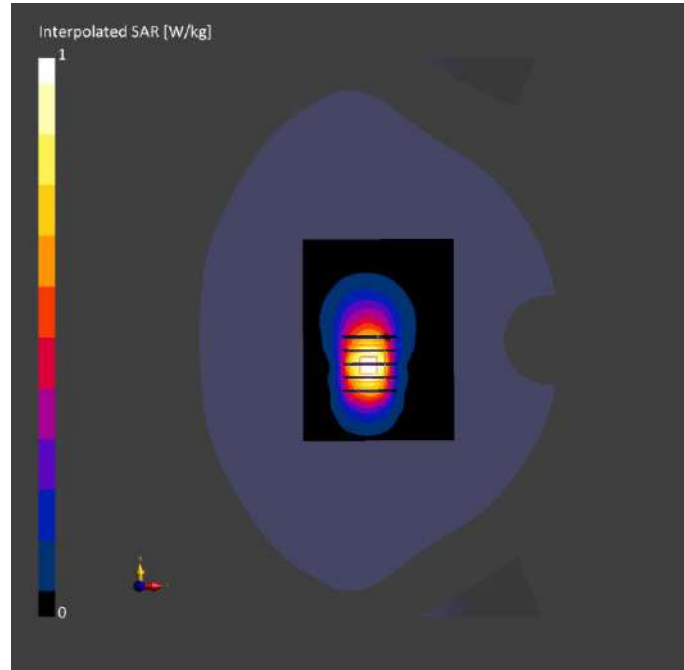
**Scan Setup**

	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	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-12	2024-06-12
psSAR1g [W/kg]	0.474	0.601
psSAR10g [W/kg]	0.268	0.320
Power Drift [dB]	-0.04	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		60.7
Dist 3dB Peak [mm]		9.6





**Meas.48 Body Plane with Top Edge 0mm on Middle Channel in LTE Band66 mode with Antenna 1**  
**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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 66	LTE-FDD, 10169-CAF	1745.0, 132322	8.52	1.36	40.4	22.5	21.5

**Hardware Setup**

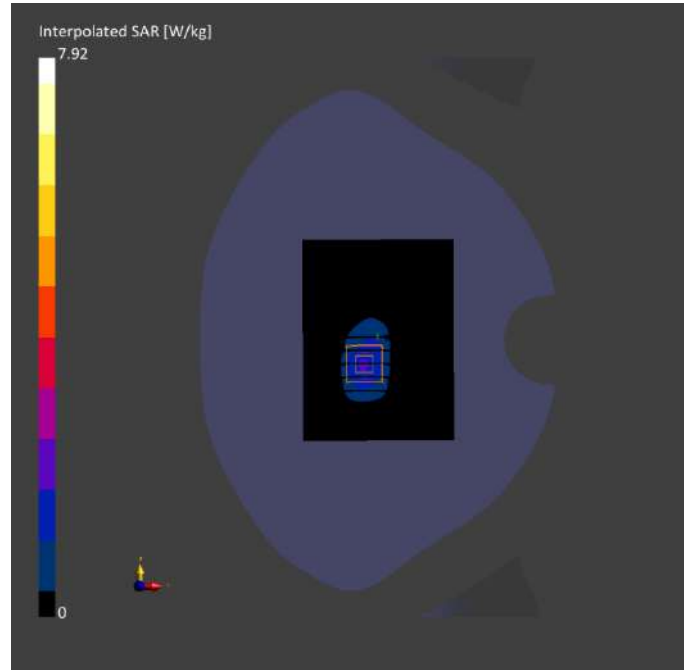
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-12	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-12	2024-06-12
psSAR1g [W/kg]	1.73	3.58
psSAR10g [W/kg]	0.951	1.47
Power Drift [dB]	-0.07	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		36.0
Dist 3dB Peak [mm]		4.8



**Meas.49 Right Head with Tilt on High Channel in LTE Band38 mode with Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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-CAH	2610.0, 38150	7.41	1.98	38.8	22.3	21.3

**Hardware Setup**

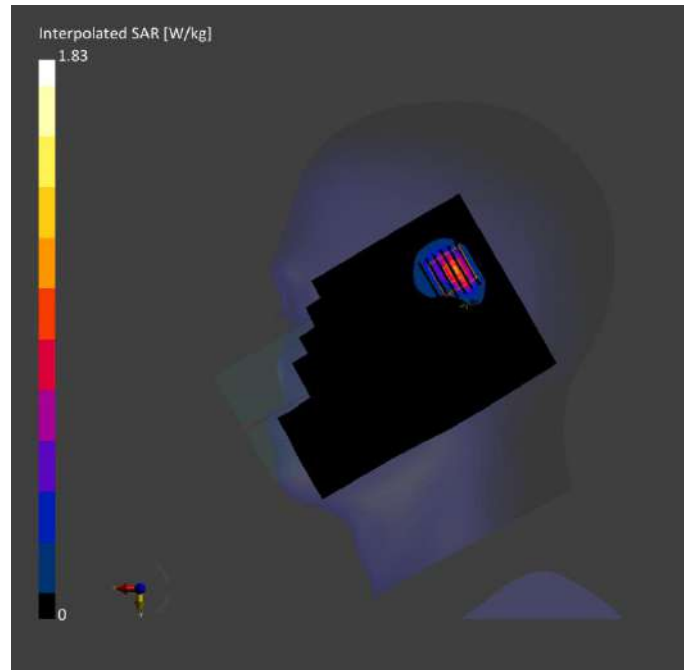
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-18	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-18	2024-06-18
psSAR1g [W/kg]	0.801	0.843
psSAR10g [W/kg]	0.337	0.348
Power Drift [dB]	0.05	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		45.0
Dist 3dB Peak [mm]		7.1



**Meas.50 Body Plane with Back Side 15mm on High Channel in LTE Band38 mode with Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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	BACK, 15.00	Band 38	LTE-TDD, 10172-CAH	2610.0, 38150	7.41	1.98	38.8	22.3	21.3

**Hardware Setup**

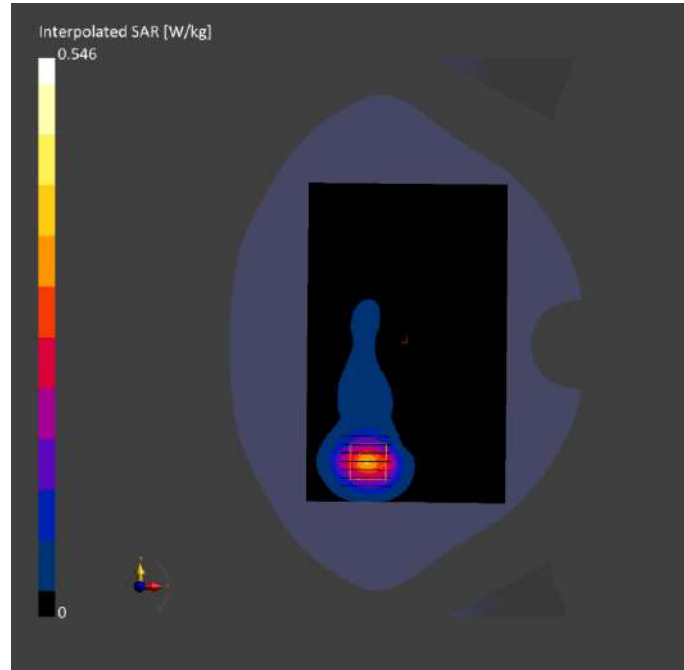
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-18	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-18	2024-06-18
psSAR1g [W/kg]	0.280	0.292
psSAR10g [W/kg]	0.133	0.142
Power Drift [dB]	0.00	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		52.6
Dist 3dB Peak [mm]		10.8



**Meas.51 Body Plane with Top Edge 10mm on High Channel in LTE Band38 mode with Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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 38	LTE-TDD, 10172-CAH	2610.0, 38150	7.41	1.98	38.8	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 2024-06-18	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

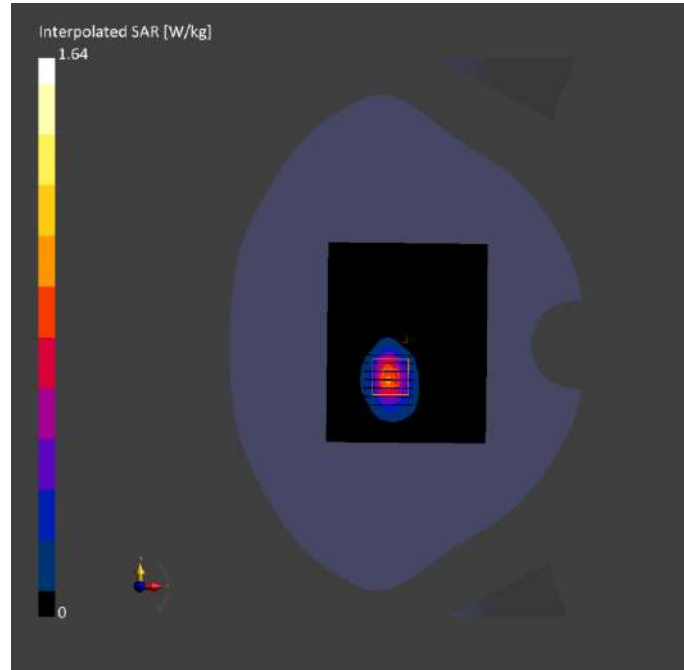
**Scan Setup**

	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	2024-06-18	2024-06-18
psSAR1g [W/kg]	0.752	0.824
psSAR10g [W/kg]	0.335	0.366
Power Drift [dB]	0.05	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.7
Dist 3dB Peak [mm]		9.0





**Meas.52 Body Plane with Top Edge 0mm on High Channel in LTE Band38 mode with Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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
Flat, HSL	EDGE, TOP, 0.00	Band 38	LTE-TDD, 10172-CAH	2610.0, 38150	7.41	1.98	38.8	22.3	21.3

**Hardware Setup**

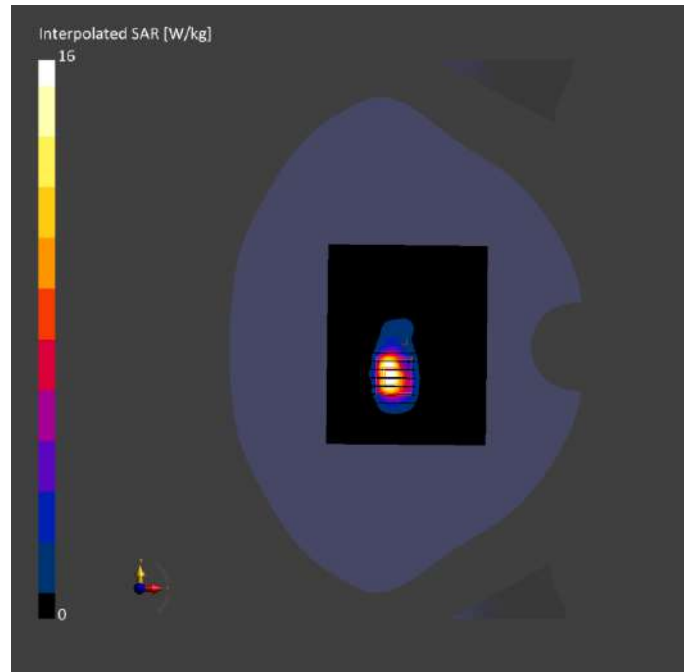
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-18	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	2024-06-18	2024-06-18
psSAR1g [W/kg]	5.06	5.99
psSAR10g [W/kg]	2.06	2.15
Power Drift [dB]	-0.02	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		37.8
Dist 3dB Peak [mm]		5.0



**Meas.53 Right Head with Tilt on Middle Channel in LTE Band41 mode with Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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-CAH	2593.0, 40620	7.41	1.96	39.0	22.5	21.3

**Hardware Setup**

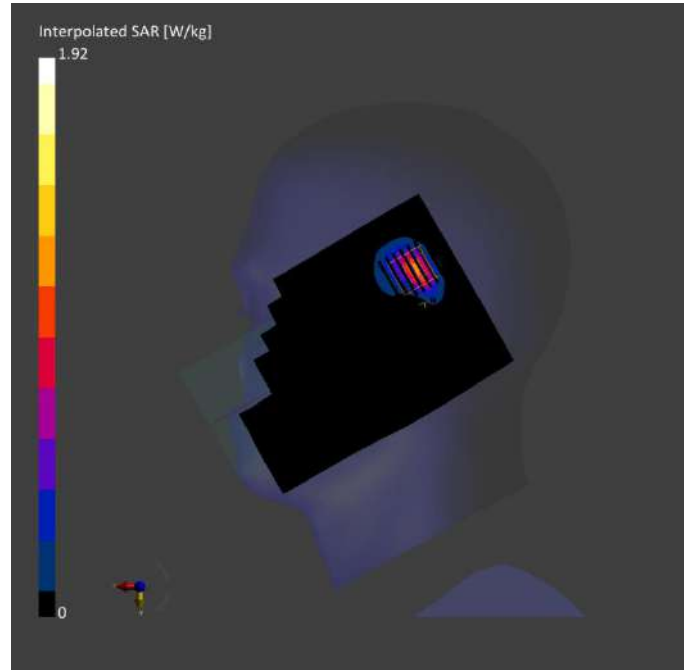
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-20	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-20	2024-06-20
psSAR1g [W/kg]	0.863	0.887
psSAR10g [W/kg]	0.365	0.368
Power Drift [dB]	-0.03	0.08
Power Scaling	Disabled	Disabled
Scaling Factor		
[dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		45.5
Dist 3dB Peak [mm]		7.0



**Meas.54 Body Plane with Back Side 15mm on Middle Channel in LTE Band41 mode with Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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, 15.00	Band 41	LTE-TDD, 10172-CAH	2593.0, 40620	7.41	1.96	39.0	22.5	21.3

**Hardware Setup**

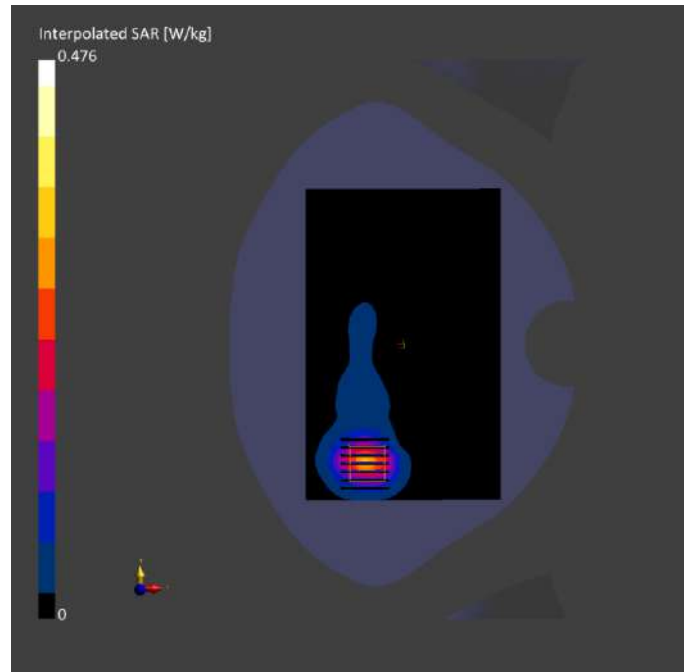
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-20	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-20	2024-06-20
psSAR1g [W/kg]	0.246	0.256
psSAR10g [W/kg]	0.117	0.125
Power Drift [dB]	0.03	0.05
Power Scaling	Disabled	Disabled
Scaling Factor		
[dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		53.0
Dist 3dB Peak [mm]		10.8



**Meas.55 Body Plane with Top Edge 10mm on Middle Channel in LTE Band41 mode with Antenna 1**  
**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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-CAH	2593.0, 40620	7.41	1.96	39.0	22.5	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 2024-06-20	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

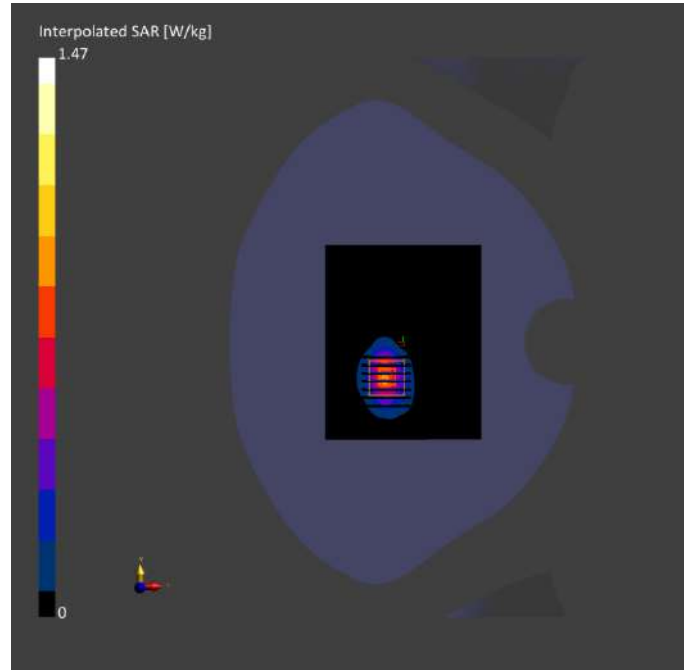
**Scan Setup**

	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	2024-06-20	2024-06-20
psSAR1g [W/kg]	0.685	0.738
psSAR10g [W/kg]	0.303	0.329
Power Drift [dB]	0.01	0.03
Power Scaling	Disabled	Disabled
Scaling Factor		
[dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.5
Dist 3dB Peak [mm]		8.1





**Meas.56 Body Plane with Top Edge 0mm on Middle Channel in LTE Band41 mode with Antenna 1**  
**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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-CAH	2593.0, 40620	7.41	1.96	39.0	22.5	21.3

**Hardware Setup**

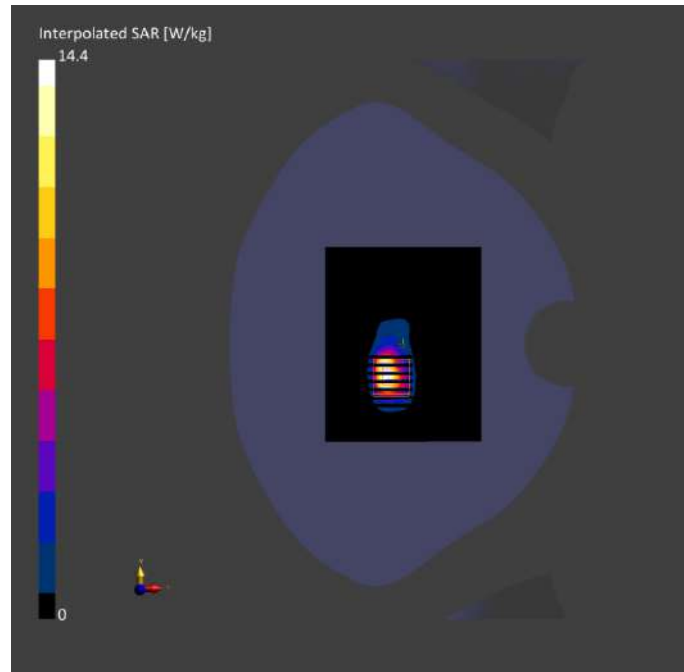
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-20	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	2024-06-20	2024-06-20
psSAR1g [W/kg]	4.61	5.90
psSAR10g [W/kg]	1.88	2.12
Power Drift [dB]	0.00	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		31.8
Dist 3dB Peak [mm]		5.0



**Meas.57 Right Head with Cheek on Middle Channel in NR Band5 mode with Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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 n5	5G NR FR1, FDD, 10931-AAC	836.5, 167300	9.96	0.908	41.3	22.5	21.3

**Hardware Setup**

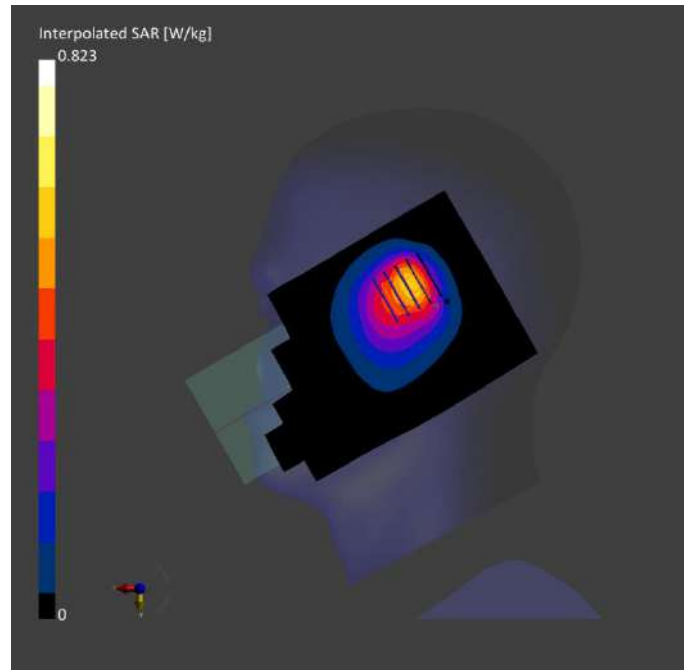
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-09	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	2024-06-09	2024-06-09
psSAR1g [W/kg]	0.516	0.508
psSAR10g [W/kg]	0.333	0.333
Power Drift [dB]	0.00	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		58.2
Dist 3dB Peak [mm]		12.5



**Meas.58 Body Plane with Back Side 15mm on Middle Channel in NR Band5 mode with Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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, 15.00	Band n5	5G NR FR1	836.5, 167300	9.96	0.908	41.3	22.5	21.3
			FDD, 10931-AAC						

**Hardware Setup**

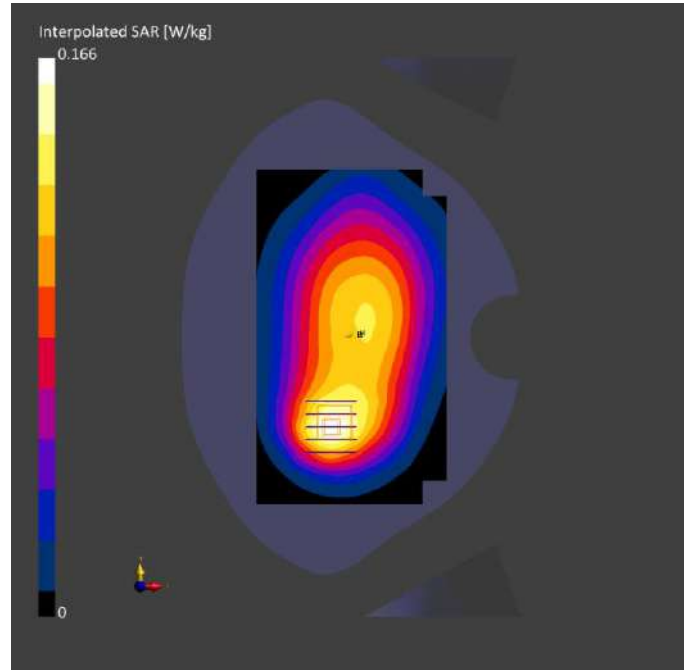
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-09	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	2024-06-09	2024-06-09
psSAR1g [W/kg]	0.117	0.117
psSAR10g [W/kg]	0.079	0.080
Power Drift [dB]	-0.02	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		70.9
Dist 3dB Peak [mm]		> 16.0



**Meas.59 Body Plane with Back Side 10mm on Middle Channel in NR Band5 mode with Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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 n5	5G NR FR1	836.5, 167300	9.96	0.908	41.3	22.5	21.3
			FDD, 10931-AAC						

**Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-09	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

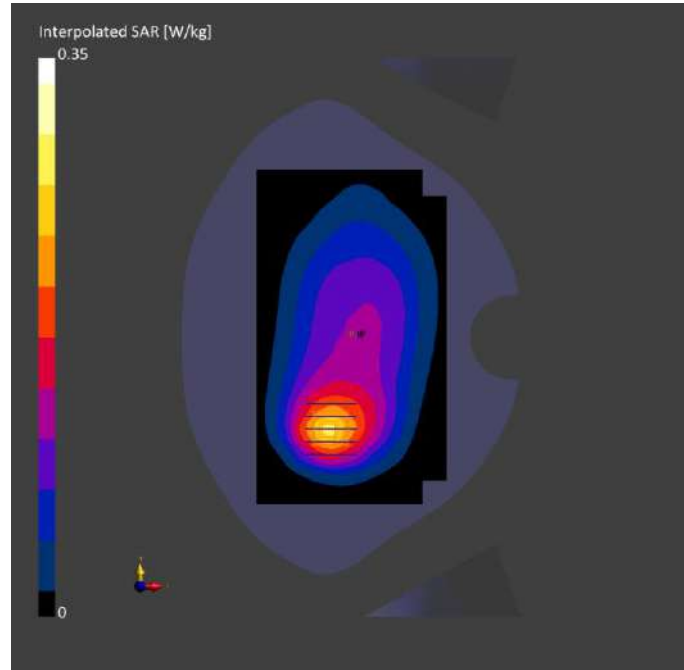
**Scan Setup**

	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	2024-06-09	2024-06-09
psSAR1g [W/kg]	0.233	0.234
psSAR10g [W/kg]	0.153	0.153
Power Drift [dB]	0.01	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		65.1
Dist 3dB Peak [mm]		17.0





**Meas.60 Right Head with Cheek on Low Channel in NR Band7 mode with Antenna 2**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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 n7	5G NR FR1, FDD, 10935-AAD	2525.0, 505000	7.41	1.87	39.6	22.6	21.5

**Hardware Setup**

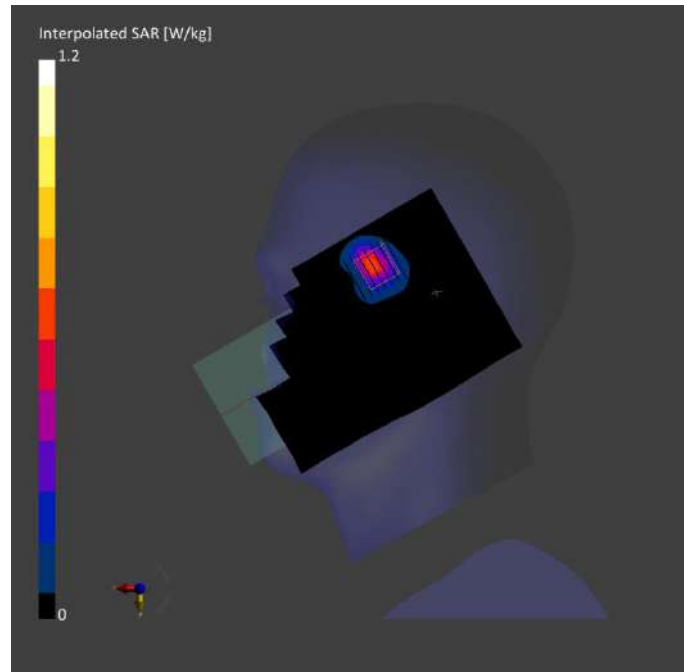
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-21	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	N/A	N/A
Surface Detection	All points	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-21	2024-06-21
psSAR1g [W/kg]	0.503	0.540
psSAR10g [W/kg]	0.221	0.231
Power Drift [dB]	0.07	0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		47.2
Dist 3dB Peak [mm]		7.7



**Meas.61 Body Plane with Back Side 15mm on Middle Channel in NR Band7 mode with Antenna 0**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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, 15.00	Band n7	5G NR FR1	2535.0, 507000	7.41	1.92	38.9	22.6	21.5
			FDD, 10935-AAD						

**Hardware Setup**

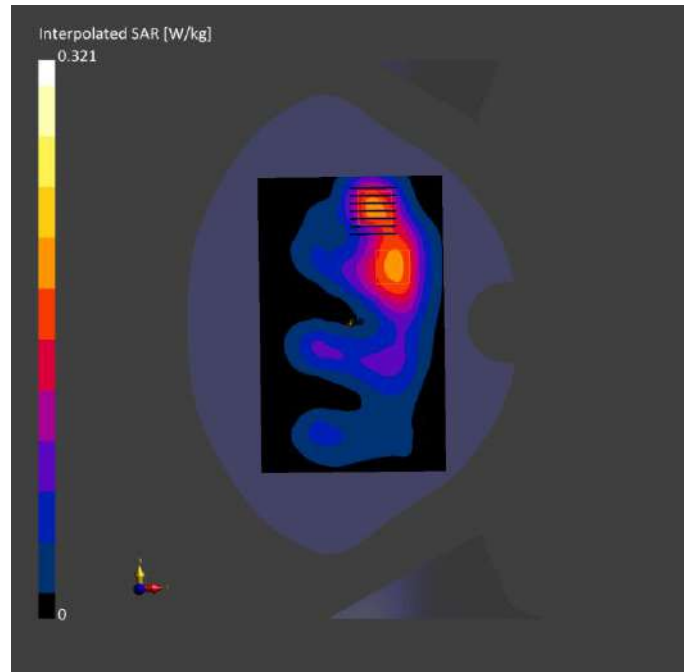
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-21	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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 Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-21	2024-06-21
psSAR1g [W/kg]	0.167	0.173
psSAR10g [W/kg]	0.093	0.088
Power Drift [dB]	0.01	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		51.4
Dist 3dB Peak [mm]		13.0



**Meas.62 Body Plane with Top Edge 10mm on Middle Channel in NR Band7 mode with Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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	Band n7	5G NR FR1, FDD, 10935-AAD	2535.0, 507000	7.41	1.92	38.9	22.6	21.5

**Hardware Setup**

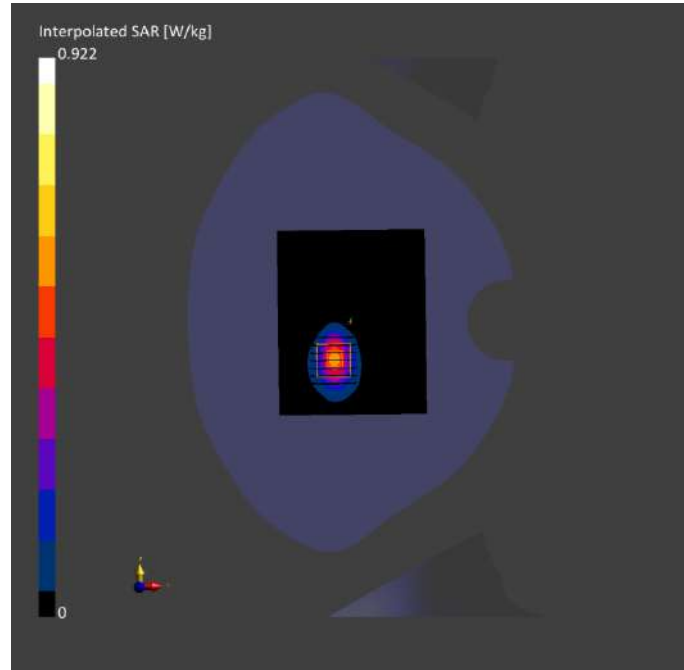
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-21	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	2024-06-21	2024-06-21
psSAR1g [W/kg]	0.452	0.472
psSAR10g [W/kg]	0.195	0.211
Power Drift [dB]	-0.01	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		52.7
Dist 3dB Peak [mm]		8.0



**Meas.63 Body Plane with Top Edge 0mm on Middle Channel in NR Band7 mode with Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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, 0.00	Band n7	5G NR FR1, FDD, 10935-AAD	2535.0, 507000	7.41	1.92	38.9	22.6	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 2024-06-21	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

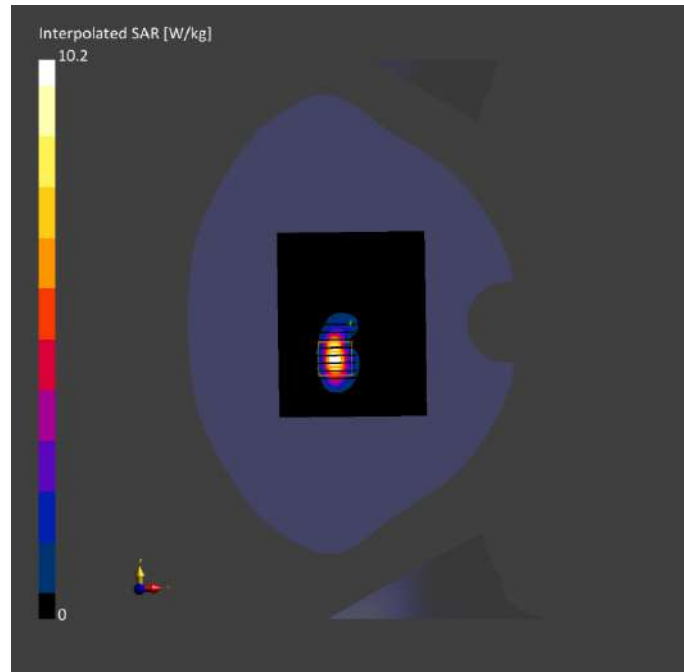
**Scan Setup**

	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	2024-06-21	2024-06-21
psSAR1g [W/kg]	4.01	4.24
psSAR10g [W/kg]	1.52	1.54
Power Drift [dB]	0.00	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		42.4
Dist 3dB Peak [mm]		6.0





**Meas.64 Right Head with Tilt on Middle Channel in NR Band66 mode with Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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 n66	5G NR FR1	1745.0, 349000	8.52	1.35	40.6	22.2	21.1
			FDD, 10934-AAC						

**Hardware Setup**

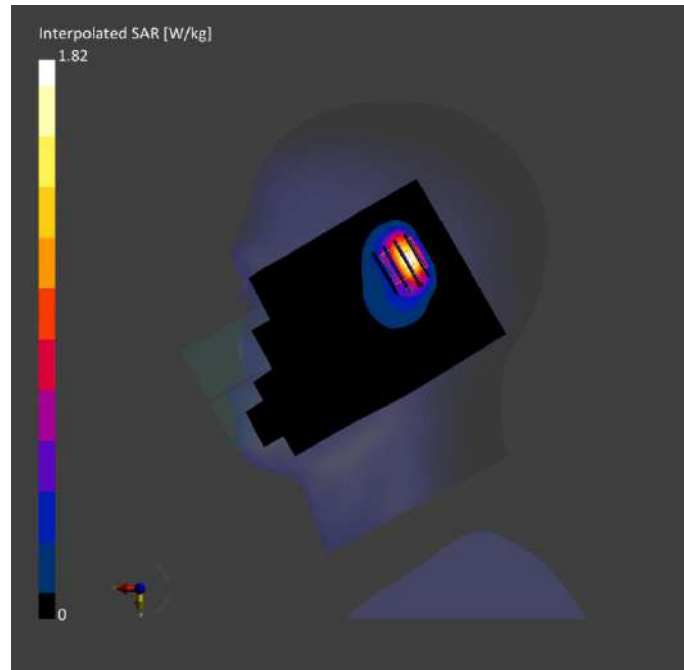
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-13	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	2024-06-13	2024-06-13
psSAR1g [W/kg]	0.862	1.05
psSAR10g [W/kg]	0.406	0.502
Power Drift [dB]	0.01	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		60.5
Dist 3dB Peak [mm]		8.0



**Meas.65 Body Plane with Back Side 15mm on Middle Channel in NR Band66 mode with Antenna 0**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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	BACK, 15.00	Band n66	5G NR FR1	1745.0, 349000	8.52	1.35	40.6	22.2	21.1
			FDD, 10934-AAC						

**Hardware Setup**

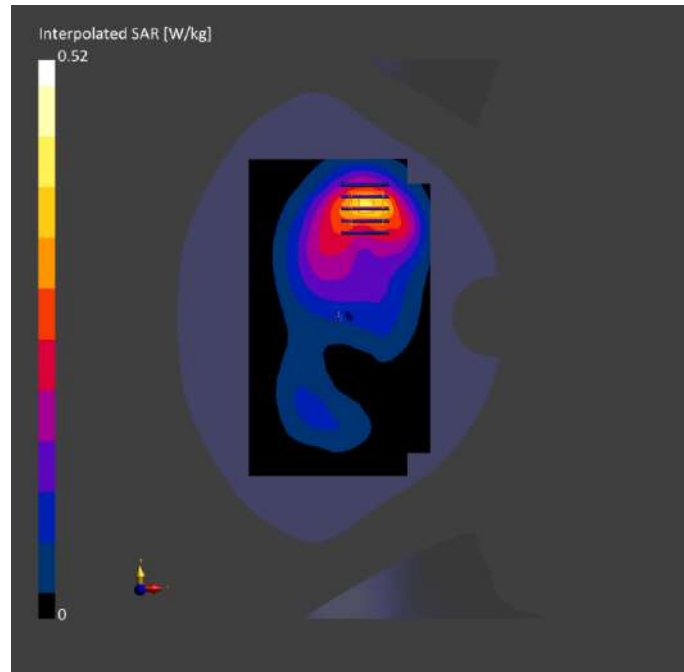
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-13	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	2024-06-13	2024-06-13
psSAR1g [W/kg]	0.337	0.340
psSAR10g [W/kg]	0.198	0.209
Power Drift [dB]	0.02	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		64.5
Dist 3dB Peak [mm]		15.2



**Meas.66 Body Plane with Top Edge 10mm on High Channel in NR Band66 mode with Antenna 1**  
**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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	Band n66	5G NR FR1, FDD, 10934-AAC	1757.5, 351500	8.52	1.39	40.1	22.2	21.1

**Hardware Setup**

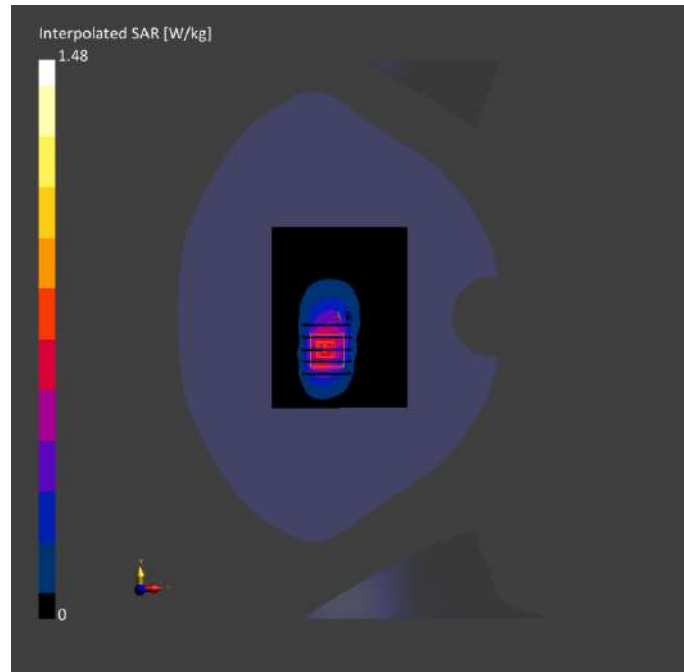
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-13	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-13	2024-06-13
psSAR1g [W/kg]	0.641	0.859
psSAR10g [W/kg]	0.362	0.446
Power Drift [dB]	0.01	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		59.6
Dist 3dB Peak [mm]		8.0



**Meas.67 Body Plane with Top Edge 0mm on High Channel in NR Band66 mode with Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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, 0.00	Band n66	5G NR FR1, FDD, 10934-AAC	1757.5, 351500	8.52	1.39	40.1	22.2	21.1

**Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-13	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

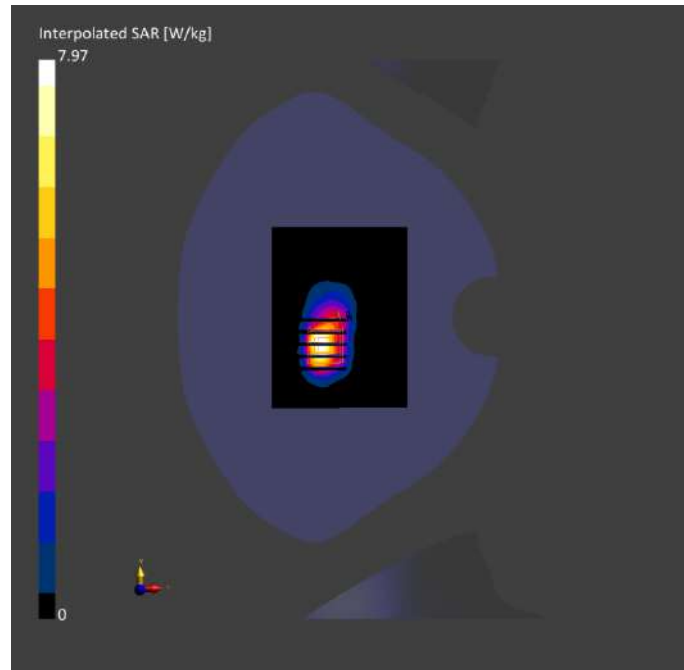
**Scan Setup**

	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	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-13	2024-06-13
psSAR1g [W/kg]	2.31	4.15
psSAR10g [W/kg]	1.18	1.78
Power Drift [dB]	-0.02	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		53.4
Dist 3dB Peak [mm]		6.4





**Meas.68 Right Head with Tilt on Middle Channel in NR Band38 mode with Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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 n38	5G NR FR1	2595.0, 519000	7.41	1.96	39.1	22.4	21.2
			TDD, 10903-AAD						

**Hardware Setup**

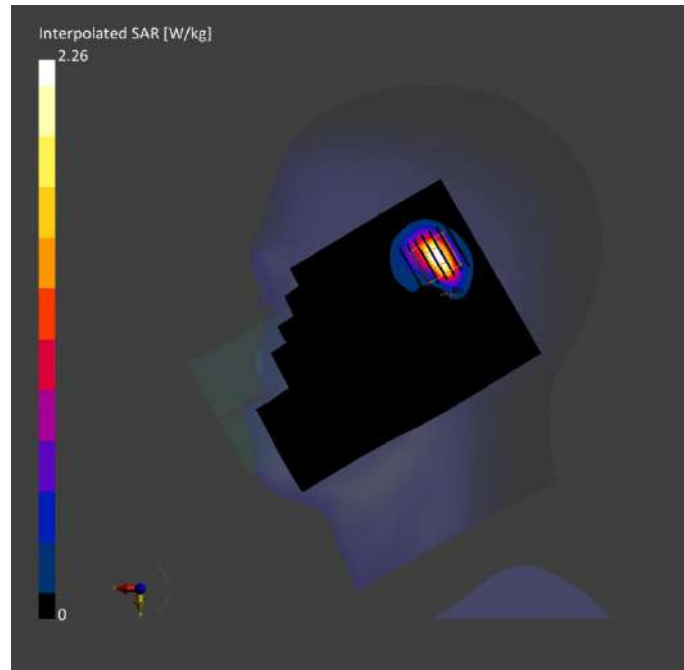
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-23	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-23	2024-06-23
psSAR1g [W/kg]	0.999	1.05
psSAR10g [W/kg]	0.416	0.434
Power Drift [dB]	-0.01	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		45.1
Dist 3dB Peak [mm]		7.0



**Meas.69 Body Plane with Back Side 15mm on Middle Channel in NR Band38 mode with Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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	BACK, 15.00	Band n38	5G NR FR1, TDD, 10903-AAD	2595.0, 519000	7.41	1.96	39.1	22.4	21.2

**Hardware Setup**

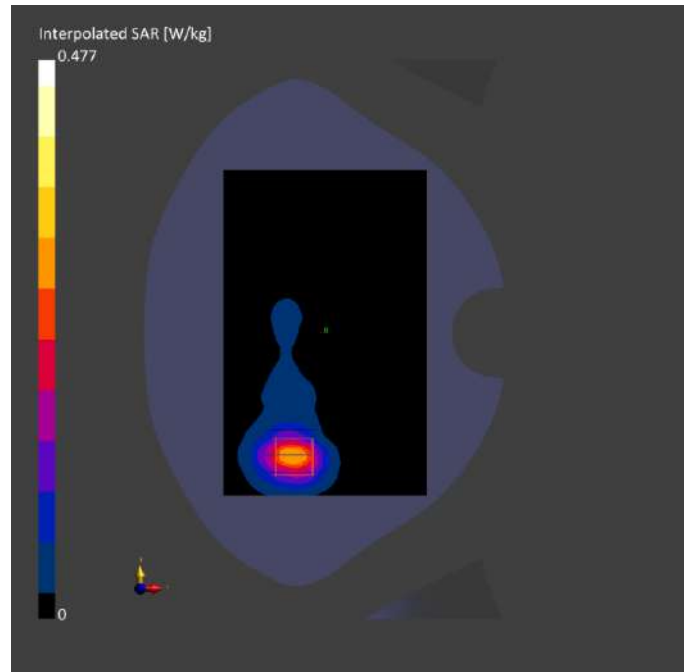
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-23	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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 Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-23	2024-06-23
psSAR1g [W/kg]	0.249	0.258
psSAR10g [W/kg]	0.119	0.126
Power Drift [dB]	0.01	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		53.9
Dist 3dB Peak [mm]		10.2



**Meas.70 Body Plane with Top Edge 10mm on Middle Channel in NR Band38 mode with Antenna 1**  
**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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	Band n38	5G NR FR1, TDD, 10903-AAD	2595.0, 519000	7.41	1.96	39.1	22.4	21.2

**Hardware Setup**

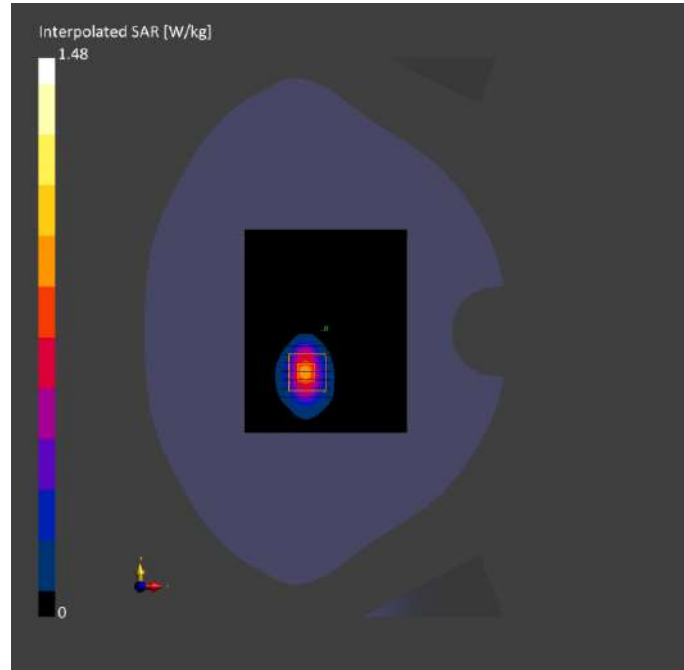
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-23	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	2024-06-23	2024-06-23
psSAR1g [W/kg]	0.708	0.742
psSAR10g [W/kg]	0.302	0.330
Power Drift [dB]	0.02	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		51.1
Dist 3dB Peak [mm]		8.0



**Meas.71 Body Plane with Top Edge 0mm on Middle Channel in NR Band38 mode with Antenna 1**  
**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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 n38	5G NR FR1, TDD, 10903-AAD	2595.0, 519000	7.41	1.96	39.1	22.4	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 2024-06-23	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

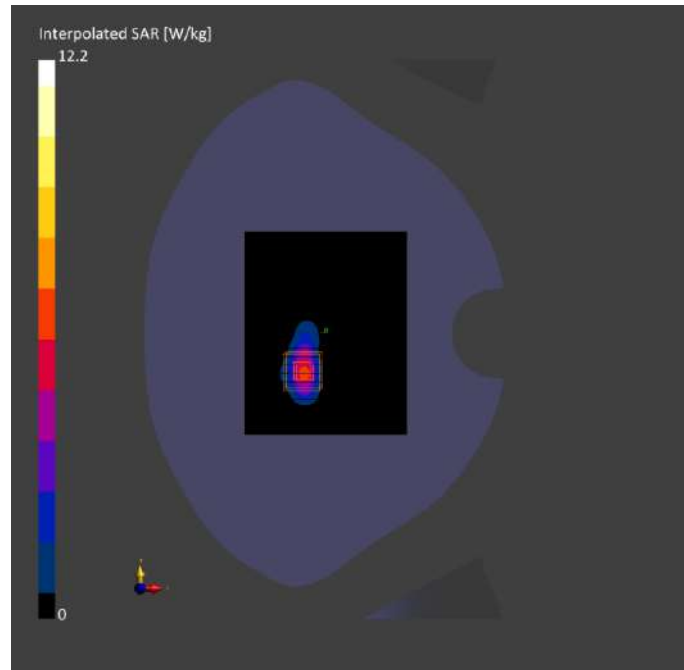
**Scan Setup**

	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	2024-06-23	2024-06-23
psSAR1g [W/kg]	4.86	5.11
psSAR10g [W/kg]	1.85	1.89
Power Drift [dB]	0.00	0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		38.2
Dist 3dB Peak [mm]		5.0





**Meas.72 Right Head with Tilt on Middle Channel in NR Band41 mode with Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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 n41	5G NR FR1	2593.0, 518598	7.41	1.96	39.3	22.1	21.0
			TDD, 10866-AAF						

**Hardware Setup**

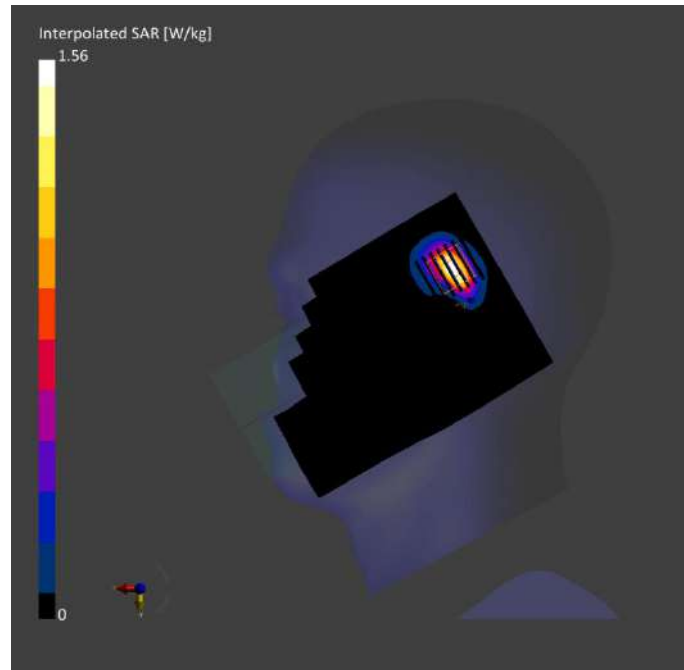
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-24	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-24	2024-06-24
psSAR1g [W/kg]	0.688	0.722
psSAR10g [W/kg]	0.283	0.298
Power Drift [dB]	-0.01	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		45.8
Dist 3dB Peak [mm]		7.0



**Meas.73 Body Plane with Back Side 15mm on High Channel in NR Band41 mode with Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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	BACK, 15.00	Band n41	5G NR FR1 TDD, 10866-AAF	2640.0, 528000	7.41	2.04	38.4	22.1	21.0

**Hardware Setup**

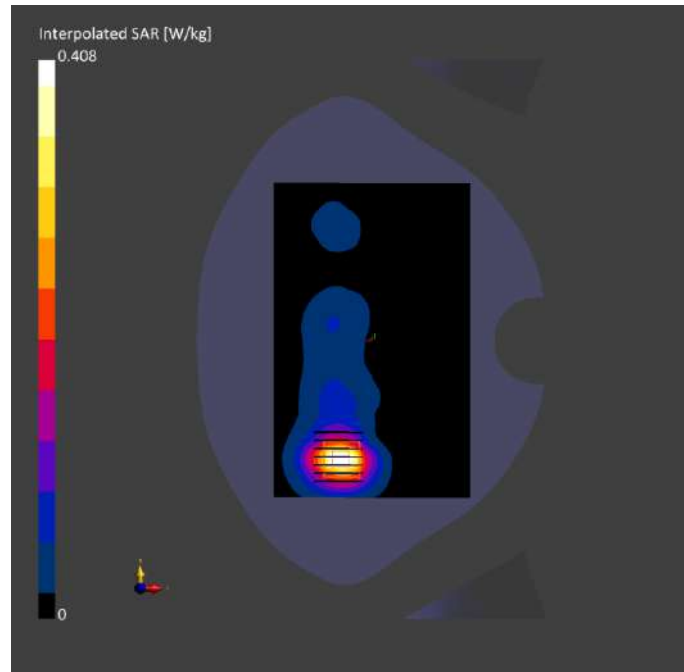
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-24	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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 Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-24	2024-06-24
psSAR1g [W/kg]	0.211	0.219
psSAR10g [W/kg]	0.101	0.107
Power Drift [dB]	0.00	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		53.1
Dist 3dB Peak [mm]		11.0



**Meas.74 Body Plane with Top Edge 10mm on High Channel in NR Band41 mode with Antenna 1**  
**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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	Band n41	5G NR FR1, TDD, 10866-AAF	2640.0, 528000	7.41	2.04	38.4	22.1	21.0

**Hardware Setup**

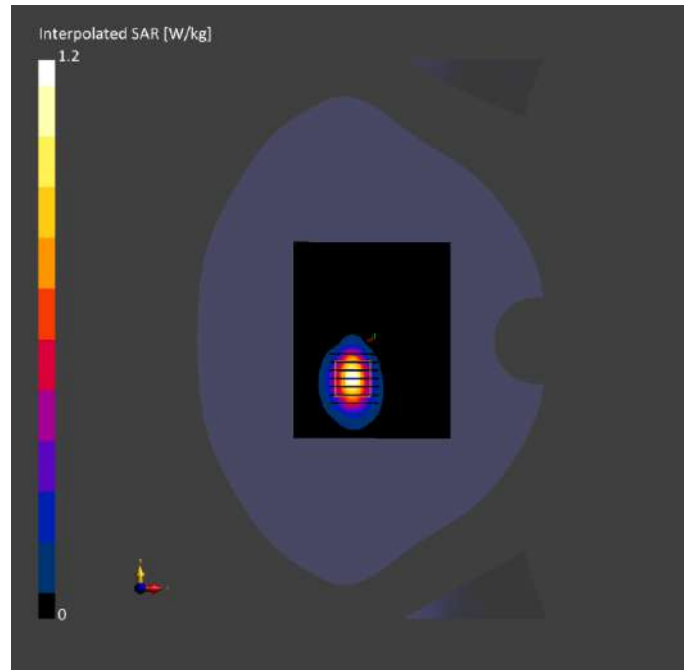
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-24	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	2024-06-24	2024-06-24
psSAR1g [W/kg]	0.585	0.614
psSAR10g [W/kg]	0.250	0.275
Power Drift [dB]	0.01	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		51.8
Dist 3dB Peak [mm]		8.9



**Meas.75 Body Plane with Top Edge 0mm on High Channel in NR Band41 mode with Antenna 1**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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, 0.00	Band n41	5G NR FR1 TDD, 10866-AAF	2640.0, 528000	7.41	2.04	38.4	22.1	21.0

**Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-24	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

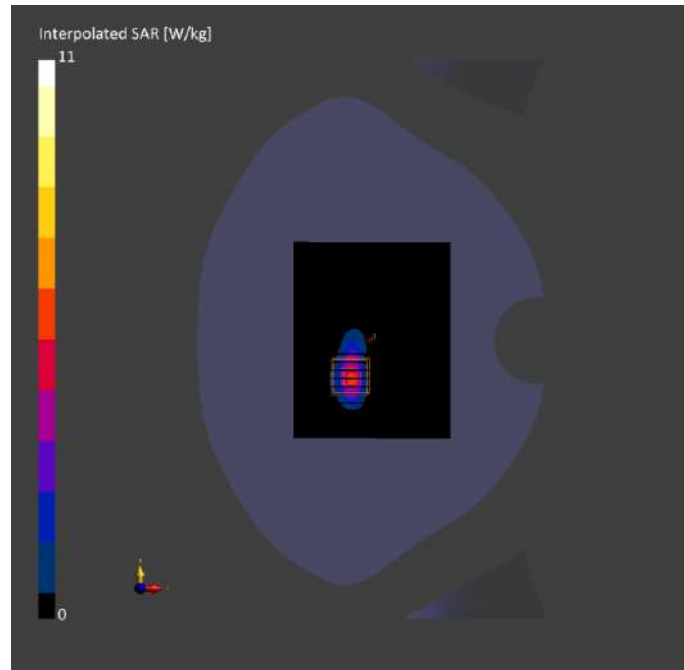
**Scan Setup**

	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	2024-06-24	2024-06-24
psSAR1g [W/kg]	4.27	4.59
psSAR10g [W/kg]	1.63	1.69
Power Drift [dB]	0.00	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		38.4
Dist 3dB Peak [mm]		5.0





**Meas.76 Left Head with Cheek on 1 Channel in IEEE802.11b mode with Antenna 8**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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]
LeftHead, HSL	CHEEK, 0.00	WLAN, 2.4GHZ	WLAN, 10415-AAA	2412.0, 1	7.47	1.75	39.5	22.6	21.4

**Hardware Setup**

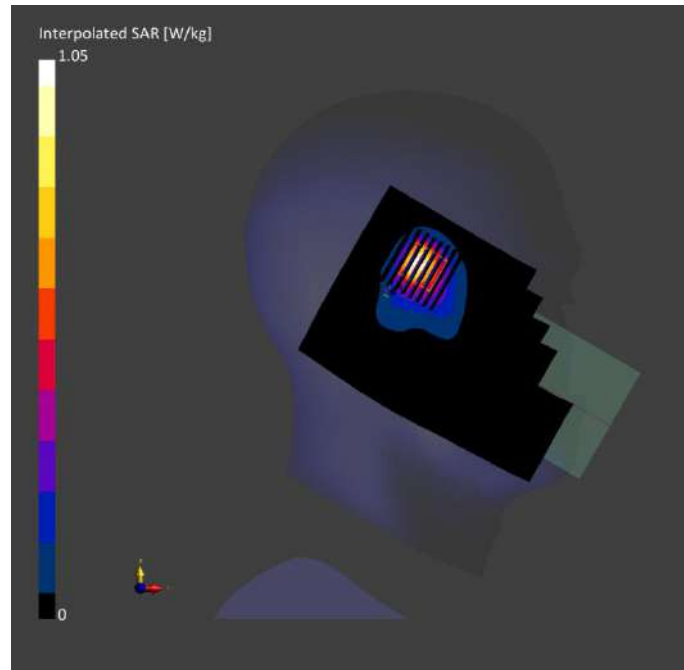
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-16	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-16	2024-06-16
psSAR1g [W/kg]	0.509	0.560
psSAR10g [W/kg]	0.241	0.253
Power Drift [dB]	0.00	-0.13
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		53.1
Dist 3dB Peak [mm]		8.3



**Meas.77 Body Plane with Back Side 15mm on 1 Channel in IEEE802.11b mode with Antenna 8**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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	BACK, 15.00	WLAN 2.4GHz	WLAN, 10415-AAA	2412.0, 1	7.47	1.75	39.5	22.6	21.4

**Hardware Setup**

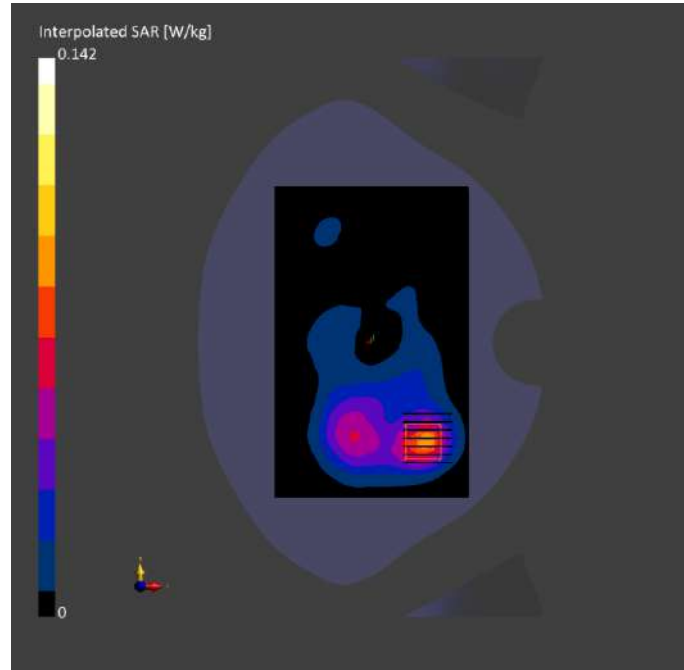
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-16	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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 Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-16	2024-06-16
psSAR1g [W/kg]	0.072	0.072
psSAR10g [W/kg]	0.037	0.036
Power Drift [dB]	0.02	0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		48.3
Dist 3dB Peak [mm]		12.0



**Meas.78 Body Plane with Back Side 10mm on 1 Channel in IEEE802.11b mode with Antenna 8**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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	BACK, 10.00	WLAN 2.4GHz	WLAN, 10415-AAA	2412.0, 1	7.47	1.75	39.5	22.6	21.4

**Hardware Setup**

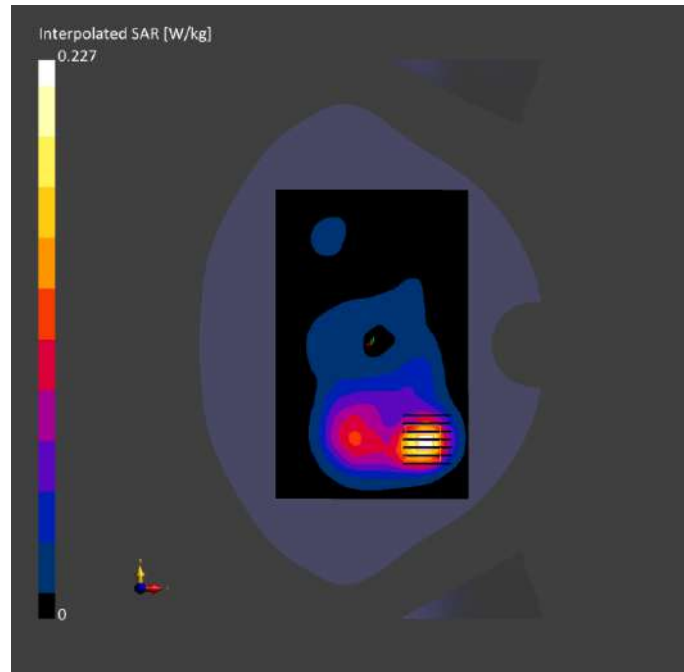
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-16	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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 Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-16	2024-06-16
psSAR1g [W/kg]	0.112	0.111
psSAR10g [W/kg]	0.056	0.053
Power Drift [dB]	0.01	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		46.4
Dist 3dB Peak [mm]		11.2



**Meas.79 Body Plane with Back Side 0mm on 1 Channel in IEEE802.11b mode with Antenna 8**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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	BACK, 0.00	WLAN 2.4GHz	WLAN, 10415-AAA	2412.0, 1	7.47	1.75	39.5	22.6	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 2024-06-16	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

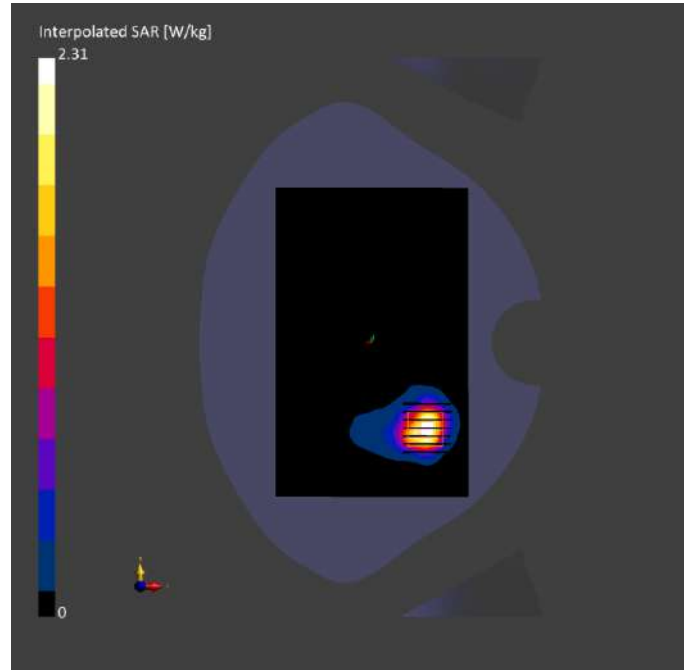
**Scan Setup**

	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	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-16	2024-06-16
psSAR1g [W/kg]	0.725	0.891
psSAR10g [W/kg]	0.340	0.355
Power Drift [dB]	-0.02	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		39.3
Dist 3dB Peak [mm]		6.0





**Meas.80 Left Head with Cheek on 64 Channel in IEEE802.11a mode with Antenna 8**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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]
LeftHead, HSL	CHEEK, 0.00	WLAN, 5GHz	WLAN, 10417- AAC	5320.0, 64	5.41	4.84	35.6	22.3	21.1

**Hardware Setup**

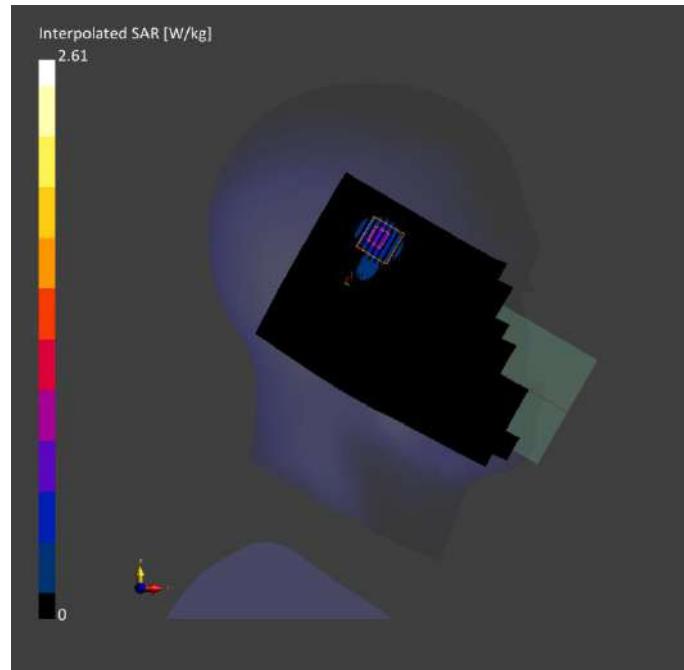
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-27	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA Surface	Y	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-27	2024-06-27
psSAR1g [W/kg]	0.596	0.660
psSAR10g [W/kg]	0.201	0.202
Power Drift [dB]	0.10	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		52.9
Dist 3dB Peak [mm]		5.7



**Meas.81 Left Head with Cheek on 106 Channel in IEEE802.11ac80 mode with Antenna 8**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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]
LeftHead, HSL	CHEEK, 0.00	WLAN, N	WLAN, 10544-	5530.0, 106	4.58	4.96	35.9	22.4	21.3
		5GHz	AAC						

**Hardware Setup**

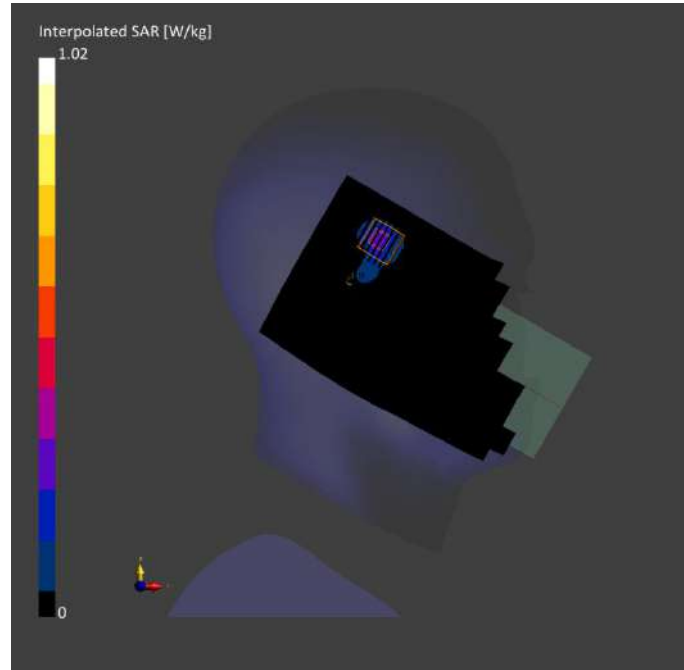
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-28	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA Surface	Y	Y
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-28	2024-06-28
psSAR1g [W/kg]	0.241	0.258
psSAR10g [W/kg]	0.079	0.076
Power Drift [dB]	-0.06	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.6
Dist 3dB Peak [mm]		5.8



**Meas.82 Left Head with Cheek on 165 Channel in IEEE802.11a mode with Antenna 8**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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]
LeftHead, HSL	CHEEK, 0.00	WLAN, N	WLAN, 10417-	5825.0, 165	4.78	5.36	35.2	22.3	21.1
		5GHz	AAC						

**Hardware Setup**

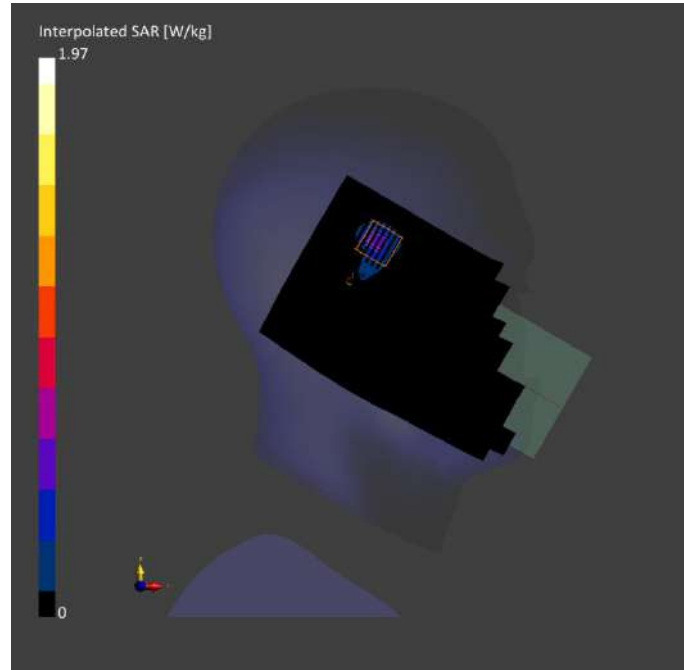
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-29	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA Surface	Y	Y
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-29	2024-06-29
psSAR1g [W/kg]	0.415	0.468
psSAR10g [W/kg]	0.137	0.136
Power Drift [dB]	-0.13	0.09
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		49.8
Dist 3dB Peak [mm]		5.6



**Meas.83 Body Plane with Back Side 15mm on 36 Channel in IEEE802.11a mode with Antenna 8**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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	BACK, 15.00	WLAN, N	WLAN, 10417-5GHz	5180.0, 36 AAC	5.41	4.64	36.1	22.6	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 2024-06-26	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

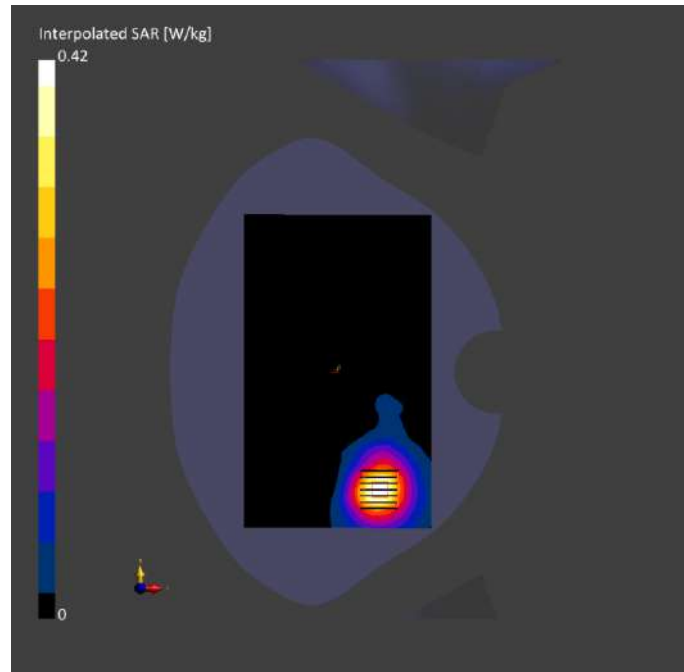
**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA Surface	Y	Y
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-26	2024-06-26
psSAR1g [W/kg]	0.128	0.129
psSAR10g [W/kg]	0.053	0.051
Power Drift [dB]	0.18	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		54.1
Dist 3dB Peak [mm]		13.0





**Meas.84 Body Plane with Back Side 15mm on 52 Channel in IEEE802.11a mode with Antenna 8**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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	BACK, 15.00	WLAN, 5GHz	WLAN, 10417-AAC	5260.0, 52	5.41	4.73	36.1	22.3	21.1

**Hardware Setup**

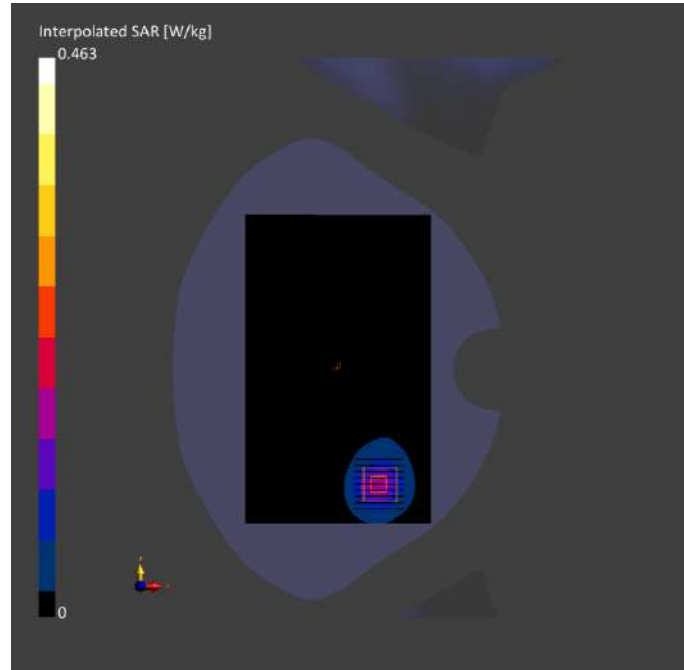
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-27	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA Surface	Y	Y
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-27	2024-06-27
psSAR1g [W/kg]	0.133	0.137
psSAR10g [W/kg]	0.054	0.052
Power Drift [dB]	0.06	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		51.8
Dist 3dB Peak [mm]		12.6



**Meas.85 Body Plane with Back Side 15mm on 106 Channel in IEEE802.11ac80 mode with Antenna 8 Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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	BACK, 15.00	WLAN, N	WLAN, 10544- AAC	5530.0, 106	4.58	4.96	35.9	22.4	21.3

**Hardware Setup**

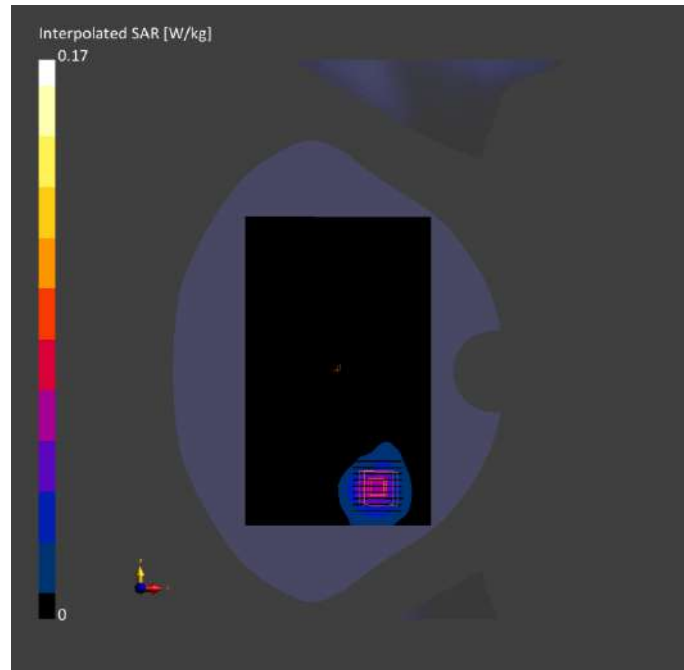
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM (30deg probe tilt) - V5.0 1859	HBBL-600-10000 2024-06-28	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA Surface	Y	Y
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-28	2024-06-28
psSAR1g [W/kg]	0.051	0.047
psSAR10g [W/kg]	0.021	0.015
Power Drift [dB]	-0.09	0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		51.6
Dist 3dB Peak [mm]		12.0



**Meas.86 Body Plane with Back Side 15mm on 165 Channel in IEEE802.11a mode with Antenna 8**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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	BACK, 15.00	WLAN, N	WLAN, 10417- AAC	5825.0, 165	4.78	5.36	35.2	22.3	21.1

**Hardware Setup**

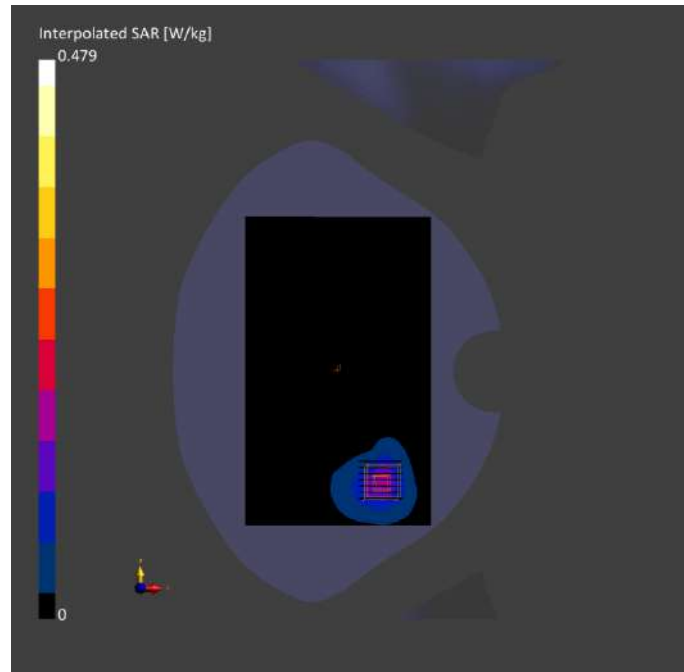
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-29	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA Surface	Y	Y
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-29	2024-06-29
psSAR1g [W/kg]	0.130	0.128
psSAR10g [W/kg]	0.052	0.046
Power Drift [dB]	0.12	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.6
Dist 3dB Peak [mm]		11.1



**Meas.87 Body Plane with Top Edge 10mm on 36 Channel in IEEE802.11a mode with Antenna 8**  
**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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	WLAN, N	WLAN, 10417- AAC	5180.0, 36	5.41	4.64	36.1	22.6	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 2024-06-26	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

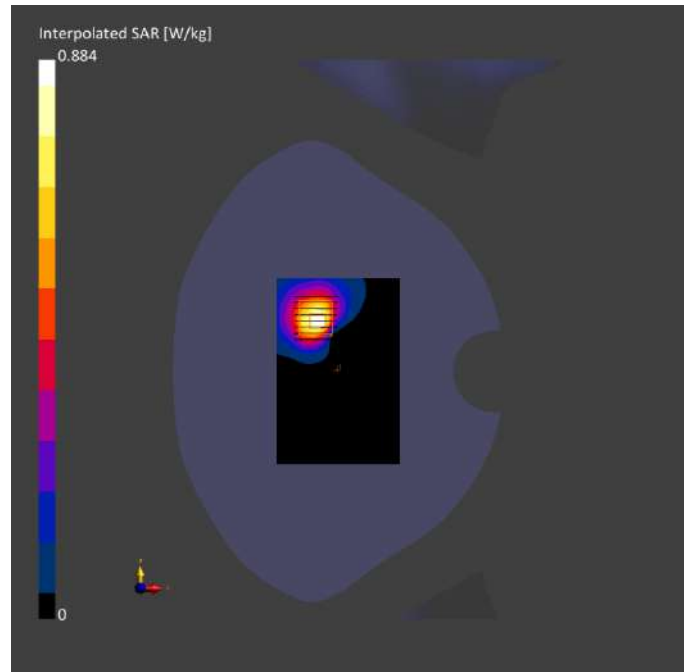
**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA Surface	Y	Y
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-26	2024-06-26
psSAR1g [W/kg]	0.205	0.256
psSAR10g [W/kg]	0.080	0.092
Power Drift [dB]	0.08	0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		55.5
Dist 3dB Peak [mm]		7.2





**Meas.88 Body Plane with Back Side 10mm on 165 Channel in IEEE802.11a mode with Antenna 8**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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	BACK, 10.00	WLAN, 5GHz	WLAN, 10417-AAC	5825.0, 165	4.78	5.36	35.2	22.3	21.1

**Hardware Setup**

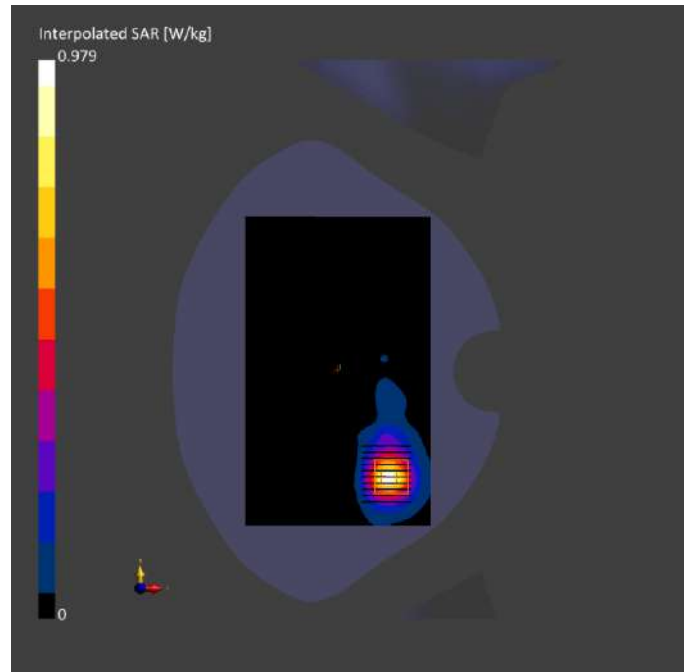
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-29	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA Surface	Y	Y
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-29	2024-06-29
psSAR1g [W/kg]	0.293	0.295
psSAR10g [W/kg]	0.106	0.104
Power Drift [dB]	-0.09	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		57.3
Dist 3dB Peak [mm]		10.4



**Meas.89 Body Plane with Back Side 0mm on 52 Channel in IEEE802.11a mode with Antenna 8**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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	BACK, 0.00	WLAN, N	WLAN, 10417-52	5260.0, 52	5.41	4.73	36.1	22.3	21.1
		5GHz	AAC						

**Hardware Setup**

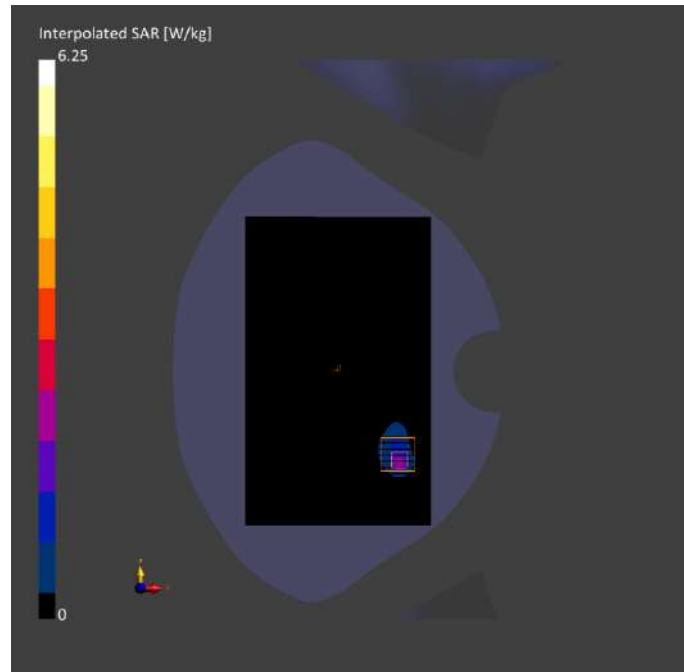
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-27	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA Surface	N/A	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-27	2024-06-27
psSAR1g [W/kg]	1.44	1.55
psSAR10g [W/kg]	0.429	0.435
Power Drift [dB]	0.07	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		52.5
Dist 3dB Peak [mm]		5.8



**Meas.90 Body Plane with Back Side 0mm on 106 Channel in IEEE802.11ac80 mode with Antenna 8**  
**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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	BACK, 0.00	WLAN, N	WLAN, 10544- AAC	5530.0, 106	4.58	4.96	35.9	22.4	21.3

**Hardware Setup**

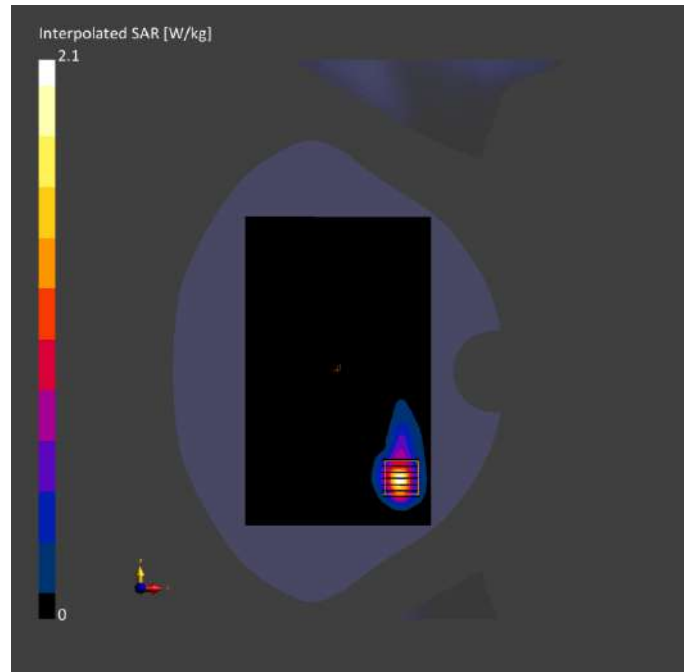
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-28	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA Surface	Y	Y
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-28	2024-06-28
psSAR1g [W/kg]	0.521	0.535
psSAR10g [W/kg]	0.159	0.157
Power Drift [dB]	-0.06	-0.09
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		55.2
Dist 3dB Peak [mm]		6.4



**Meas.91 Left Head with Cheek on 78 Channel in Bluetooth mode with Antenna 8**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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]
LeftHead, HSL	CHEEK, 0.00	ISM, 2.4 GHz Band	Bluetooth, 10032-CAA	2480.0, 78	7.47	1.86	38.5	22.6	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 2024-06-16	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

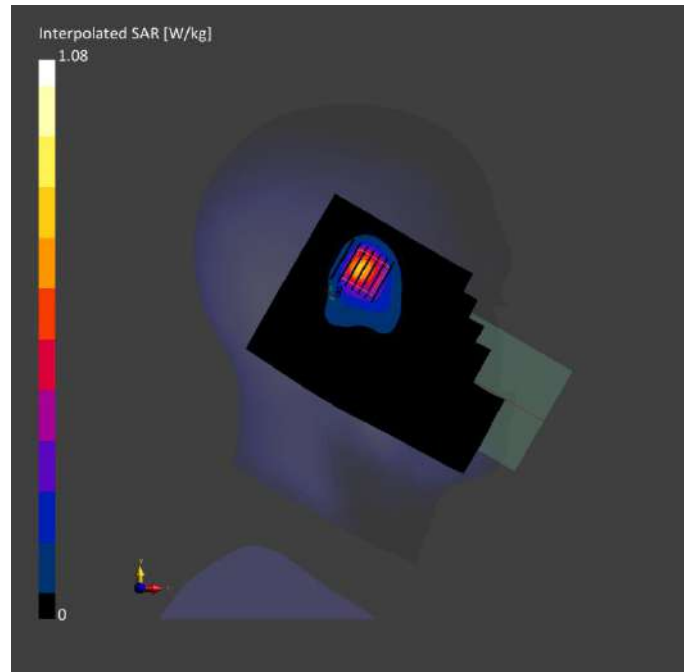
**Scan Setup**

	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	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-16	2024-06-16
psSAR1g [W/kg]	0.285	0.291
psSAR10g [W/kg]	0.123	0.133
Power Drift [dB]	-0.01	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		53.1
Dist 3dB Peak [mm]		9.5





**Meas.92 Body Plane with Back Side 15mm on 78 Channel in Bluetooth mode with Antenna 8**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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	BACK, 15.00	ISM, 2.4 GHz Band	Bluetooth, 10032-CAA	2480.0, 78	7.47	1.86	38.5	22.6	21.4

**Hardware Setup**

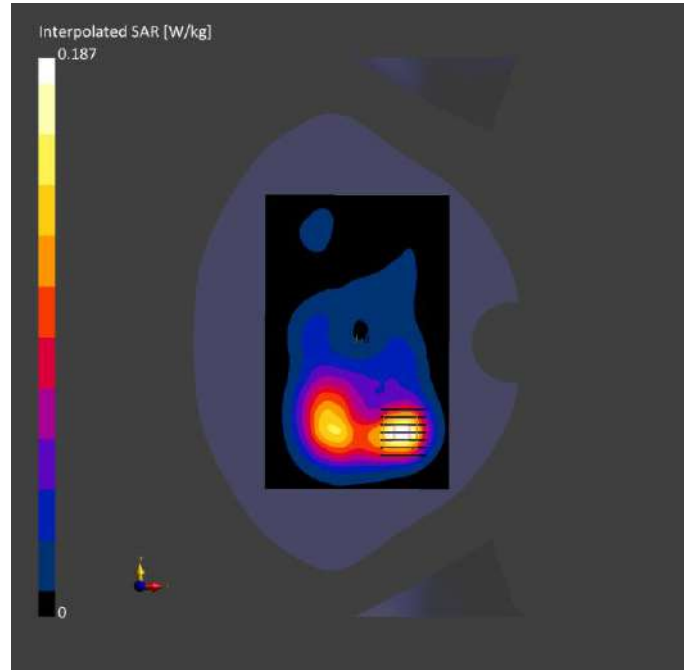
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-16	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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 Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-16	2024-06-16
psSAR1g [W/kg]	0.043	0.048
psSAR10g [W/kg]	0.021	0.024
Power Drift [dB]	-0.01	-0.09
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		47.1
Dist 3dB Peak [mm]		12.6



**Meas.93 Body Plane with Back Side 10mm on 78 Channel in Bluetooth mode with Antenna 8**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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	ISM 2.4 GHz Band	Bluetooth, 10032-CAA	2480.0, 78	7.47	1.86	38.5	22.6	21.4

**Hardware Setup**

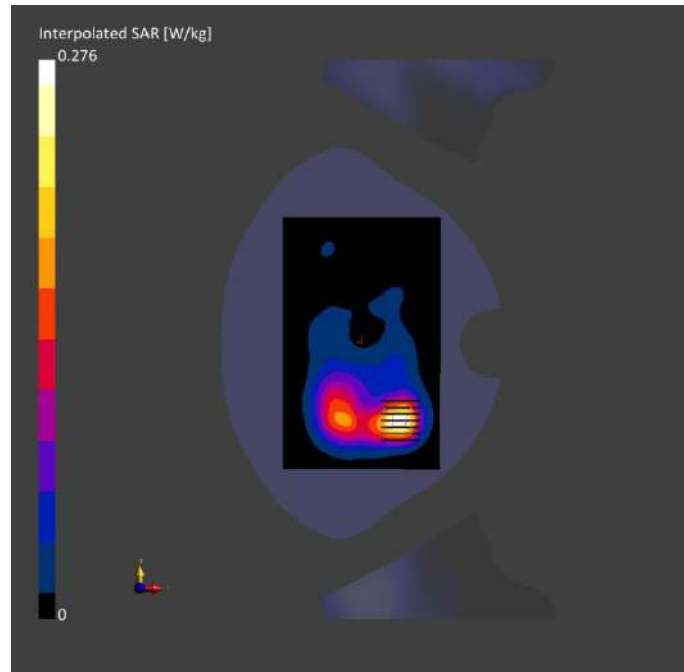
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-16	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-06-16	2024-06-16
psSAR1g [W/kg]	0.065	0.068
psSAR10g [W/kg]	0.031	0.034
Power Drift [dB]	0.00	0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		46.2
Dist 3dB Peak [mm]		11.4



**Meas.94 Body Plane with Back Side 0mm on 78 Channel in Bluetooth mode with Antenna 8**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
Barley-X	162.0 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	BACK, 0.00	ISM, 2.4 GHz Band	Bluetooth, 10032-CAA	2480.0, 78	7.47	1.86	38.5	22.6	21.4

**Hardware Setup**

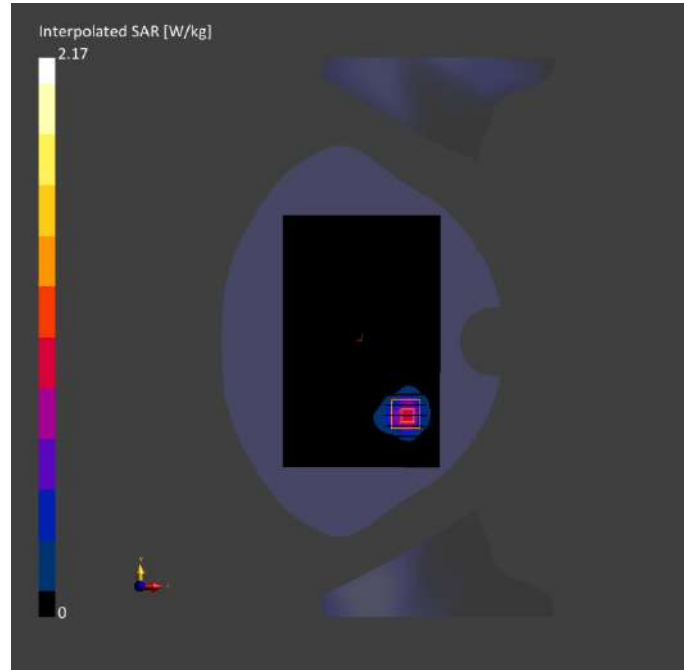
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-06-16	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	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	2024-06-16	2024-06-16
psSAR1g [W/kg]	0.417	0.453
psSAR10g [W/kg]	0.171	0.196
Power Drift [dB]	0.01	0.03
Power Scaling	Disabled	Disabled
Scaling Factor		
[dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		29.8
Dist 3dB Peak [mm]		6.4



## **ANNEX D EUT EXTERNAL PHOTOS**

Please refer the document "BL-SZ240066-AW.pdf".

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

Please refer the document "BL-SZ2460066-AS.pdf".

## **ANNEX F CALIBRATION REPORT**

Please refer the document "BL-SZ2460066-AC.pdf".



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