

# 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:** RMX3943  
**Brand Name:** realme  
**FCC ID:** 2AUYFRMX3943  
**Test Standard:** FCC 47 CFR Part 2.1093 (refer to section 3.1)  
**Maximum SAR:** Head (1 g@0mm): 1.16 W/kg  
Body-worn (1 g@15mm): 0.40 W/kg  
Hotspot (1 g@10mm): 0.98 W/kg  
Specific (10 g@0mm): 2.26 W/kg  
**Sample Arrival Date:** Oct. 09, 2024  
**Test Date:** Oct. 09, 2024 - Nov. 12, 2024  
**Date of Issue:** Nov. 18, 2024

**ISSUED BY:**

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Zhang Jiwei

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<b>Revision History</b>		
Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Nov. 18, 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	RMX3943
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	11
Software Version	realme UI 6.0
Dimensions (Approx.)	about 165.70x76.22x7.94(mm)
Weight (Approx.)	about 190g
EUT ID	S06, S07, S03, S04, S05
IMEI Number	S06: IMEI1:860836070025438; IMEI2:860836070025420
	S07: IMEI1:860836070025990; IMEI2:860836070025982
	S03: IMEI1:860836070022419; IMEI2:860836070022401
	S04: IMEI1:860836070022179; IMEI2:860836070022161
	S05: IMEI1:860836070022559; IMEI2:860836070022542
Note1: EUT ID is used to identify the test sample in the lab internally.	
Note2: It is performed to test SAR with the EUT S03, S04, S05 and conducted power with the EUT S06 & S07.	

### 2.4 Ancillary Equipment

Ancillary Equipment 1	Battery	
	Brand Name	realme
	Model No.	BLPB21
	Serial No.	N/A
	Capacitance	Rated: 4880mAh/19.09Wh Typical: 5000mAh/19.55Wh
	Rated Voltage	3.91V
	Limited Voltage	4.48 V
	Manufacturer	Dongguan NVT Technology Co., Ltd

## 2.5 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EDGE 850/1900 3G Network WCDMA/HSDPA/HSUPA Band 2/4/5 4G Network LTE FDD Band 2/4/5/7/12/13/17/26/66 LTE TDD Band 38/41 LTE CA Uplink (UL): CA_7C, CA_38C, CA_41C, CA_2A-4A, CA_2A-7A, CA_4A-7A 5G Network SA: NR n5/n7/n38/n41/n66 NSA(EN-DC): DC_66A_n5A, DC_7A_n5A, DC_2A_n7A, DC_4A_n7A, DC_5A_n7A, DC_66A_n7A, DC_4A_n38A, DC_5A_n38A, DC_66A_n38A, DC_4A_n41A, DC_26A_n41A, DC_66A_n41A, DC_2A_n66A, DC_5A_n66A, DC_7A_n66A, DC_12A_n66A Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n(HT20/40) and 802.11ac(VHT20/40/80/) GPS, GLONASS, BDS, Galileo, NFC
Note: 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.	

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

Operating Mode	GSM, WCDMA, LTE, NR, 2.4G WIFI, 5G WIFI, 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
	NR n5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
NR n7	TX: 2500 ~ 2570 MHz	RX: 2620 ~ 2690 MHz	
NR n38	TX: 2570 ~ 2620 MHz	RX: 2570 ~ 2620 MHz	



	NR n41	TX: 2496 ~ 2690 MHz	RX: 2496 ~ 2690 MHz
	NR n66	TX: 1710 ~ 1780 MHz	RX: 2110 ~ 2180 MHz
	802.11b/g /n(HT20/HT40)	2412 ~ 2462 MHz	
	VHT20/40	2412 ~ 2462 MHz	
	802.11a/ /n(HT20/HT40) /ac(VHT20/VHT40/ VHT80)	5150 ~ 5250 MHz	
		5250 ~ 5350 MHz	
		5470 ~ 5725 MHz	
	Bluetooth	2402 ~ 2480 MHz	
NFC	13.56 MHz		
Antenna Type	WWAN: PIFA Antenna WIFI: PIFA Antenna Bluetooth: PIFA 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	
Note: 1. The device utilizes independent power reduction mechanisms for SAR compliance for the 2/3/4/5G transmitter for held-to-ear exposure conditions. 2. The device utilizes independent power reduction mechanisms for SAR compliance for the 2/3/4/5G transmitter for near to body exposure conditions. 3. The reduction power details please refer section 8.8.			

### 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	0.48	0.18	0.24	/	1.16	0.40	0.98	2.26
	GSM 1900	1.07	0.17	0.49	/				
	WCDMA Band 2	0.87	0.16	0.50	/				
	WCDMA Band 4	0.81	0.34	0.66	/				
	WCDMA Band 5	0.93	0.23	0.38	/				
	LTE Band 2	0.84	0.14	0.45	/				
	LTE Band 4	0.86	0.31	0.63	/				
	LTE Band 5	0.61	0.20	0.50	/				
	LTE Band 7	0.99	0.33	0.58	/				
	LTE Band 12	0.52	0.15	0.47	/				
	LTE Band 13	0.98	0.24	0.73	/				
	LTE Band 17	0.54	0.15	0.49	/				
	LTE Band 26	0.40	0.19	0.78	/				
	LTE Band 66	0.73	0.32	0.61	/				
	LTE Band 38	1.14	0.13	0.42	/				
	LTE Band 41	1.11	0.19	0.44	/				
	NR 5	0.48	0.16	0.29	/				
	NR 7	1.16	0.37	0.66	/				
	NR 66	1.13	0.39	0.76	/				
NR 38	1.14	0.36	0.50	2.26					
NR 41	0.82	0.40	0.67	/					
DTS	2.4G WIFI	1.02	0.24	0.57	1.42				
NII	5.2G WIFI	/	/	0.55	/				
	5.3G WIFI	0.95	0.17	/	1.70				
	5.6G WIFI	0.92	0.26	/	1.97				
	5.8G WIFI	1.14	0.30	0.98	2.04				
DSS	Bluetooth	0.43	0.09	0.22	0.57				
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>1.59</b>	<b>0.64</b>	<b>1.46</b>	<b>3.46</b>
DTS	1.33	<b>0.64</b>	<b>1.46</b>	3.18
NII	<b>1.59</b>	<b>0.64</b>	1.26	<b>3.46</b>
DSS	<b>1.59</b>	<b>0.64</b>	1.44	<b>3.46</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 1.16 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 2.26 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:

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

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

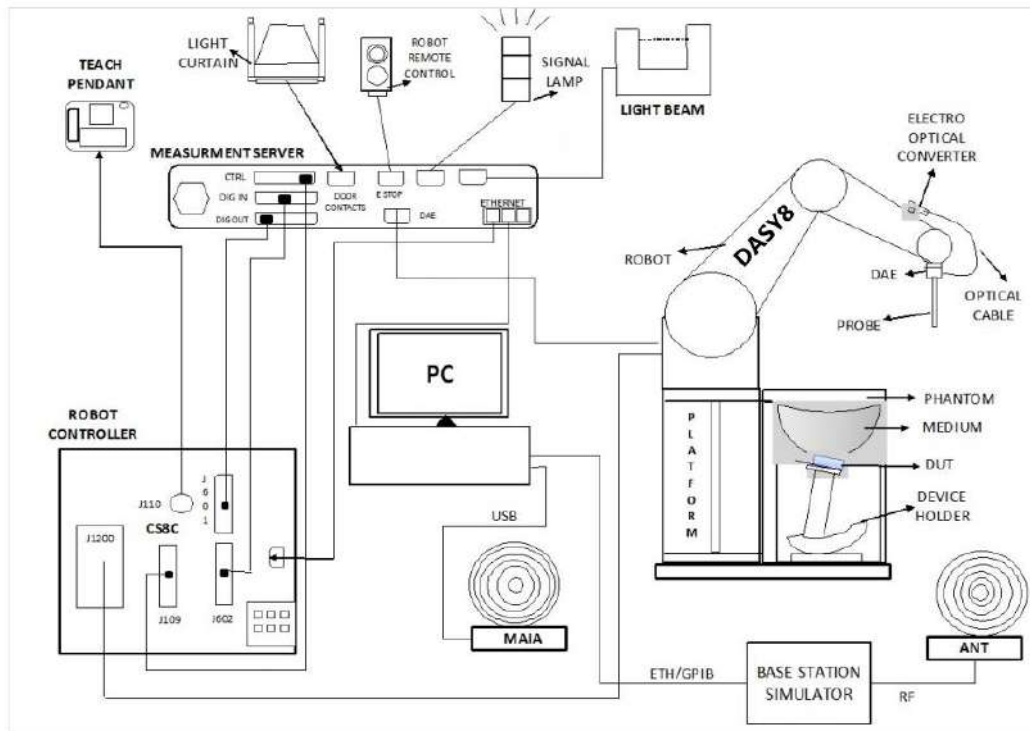
$$SAR = \frac{\sigma E^2}{\rho}$$

Where:  $\sigma$  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



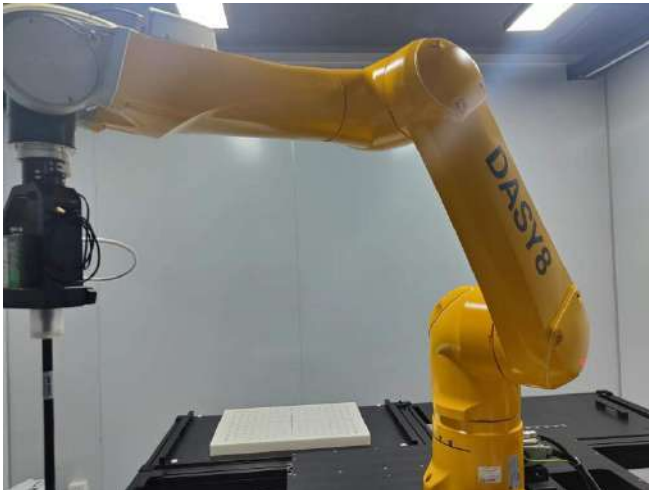
The DASY system for performing compliance tests consists of the following items:

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: 7510 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, Antennessa 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

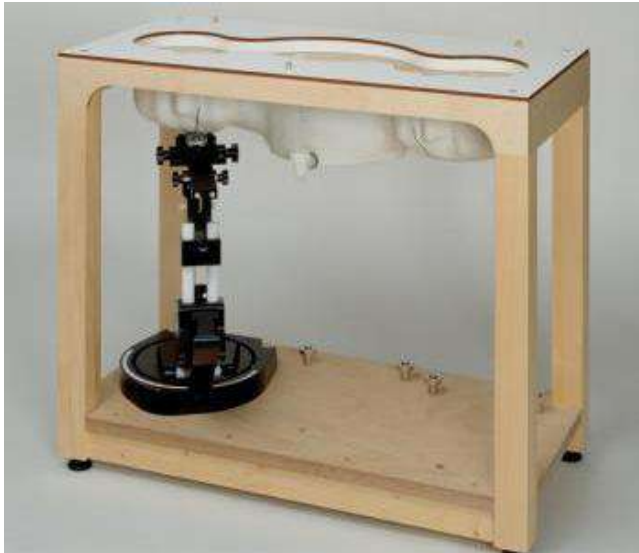
The data acquisition electronics (DAE) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converte and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an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



- Input Impedance: 200M $\Omega$ m
- 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  $1^\circ$ .

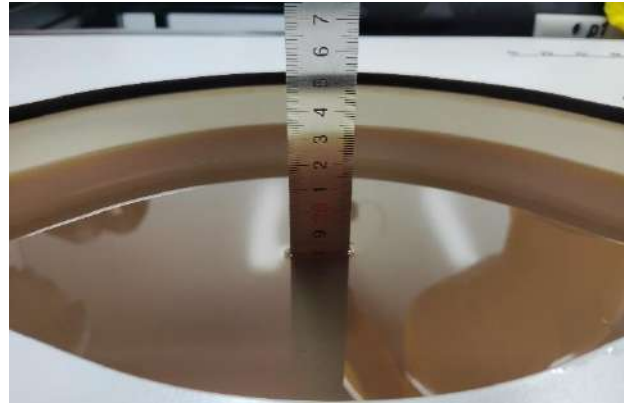
#### 4.2.7 Simulating Liquid

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

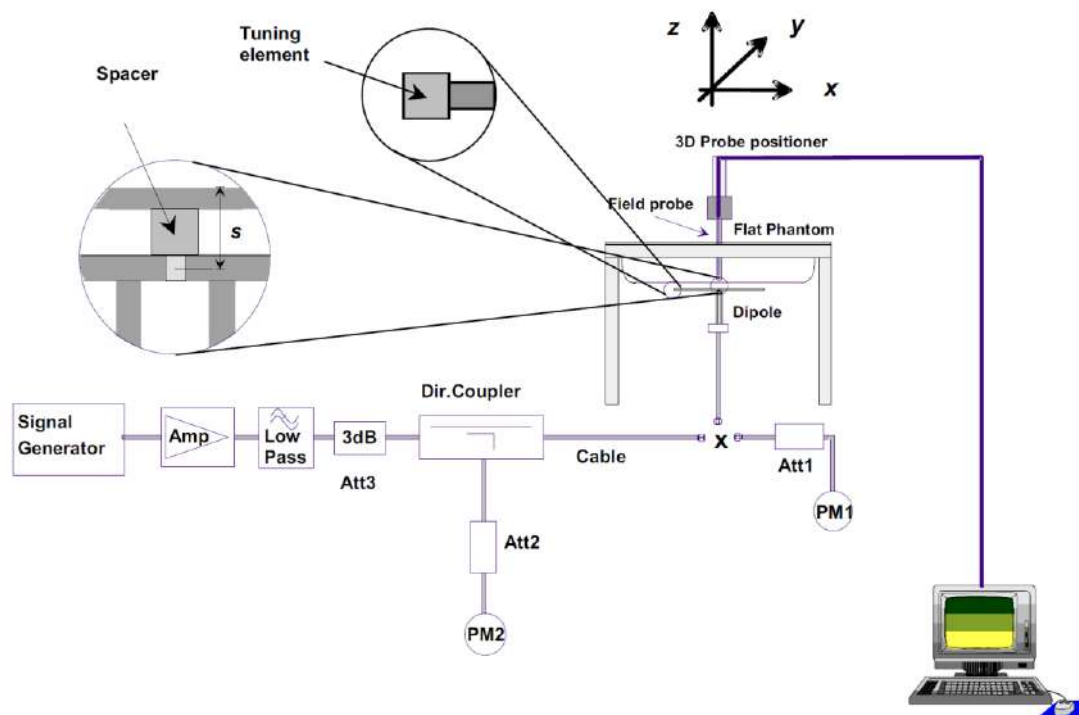
## 5 SYSTEM VERIFICATION

### 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

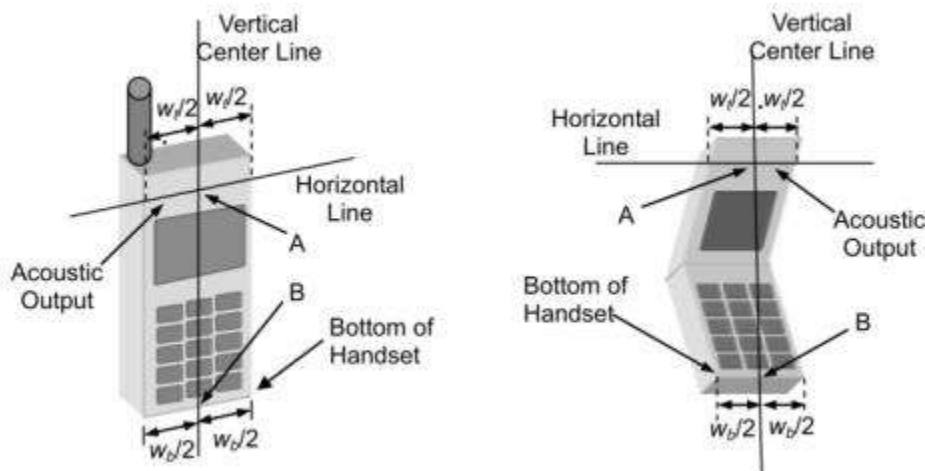
According to KDB 648474 D04 Handset, handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

### 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

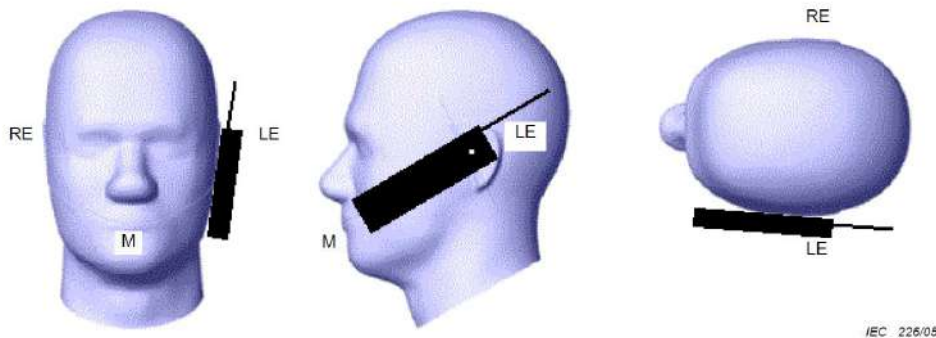
- The vertical center line passes through two points on the front side of the handset - the midpoint of the width  $w_t$  of the handset at the level of the acoustic output, and the midpoint of the width  $w_b$  of the bottom of the handset.
- The horizontal line is perpendicular to the vertical centerline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

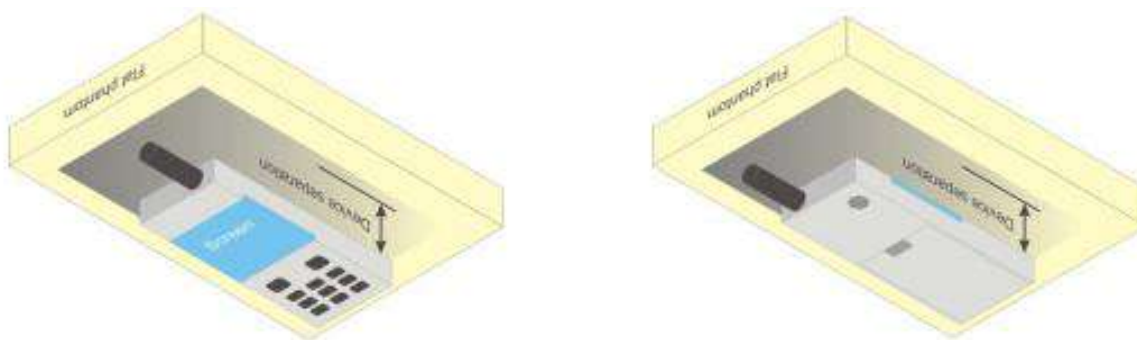


## 6.2 Body-worn Position Conditions

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.

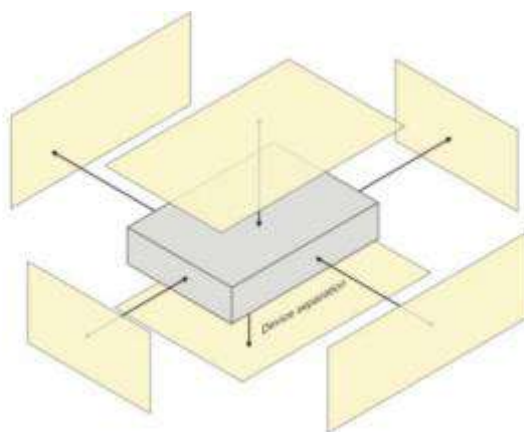
Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics.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



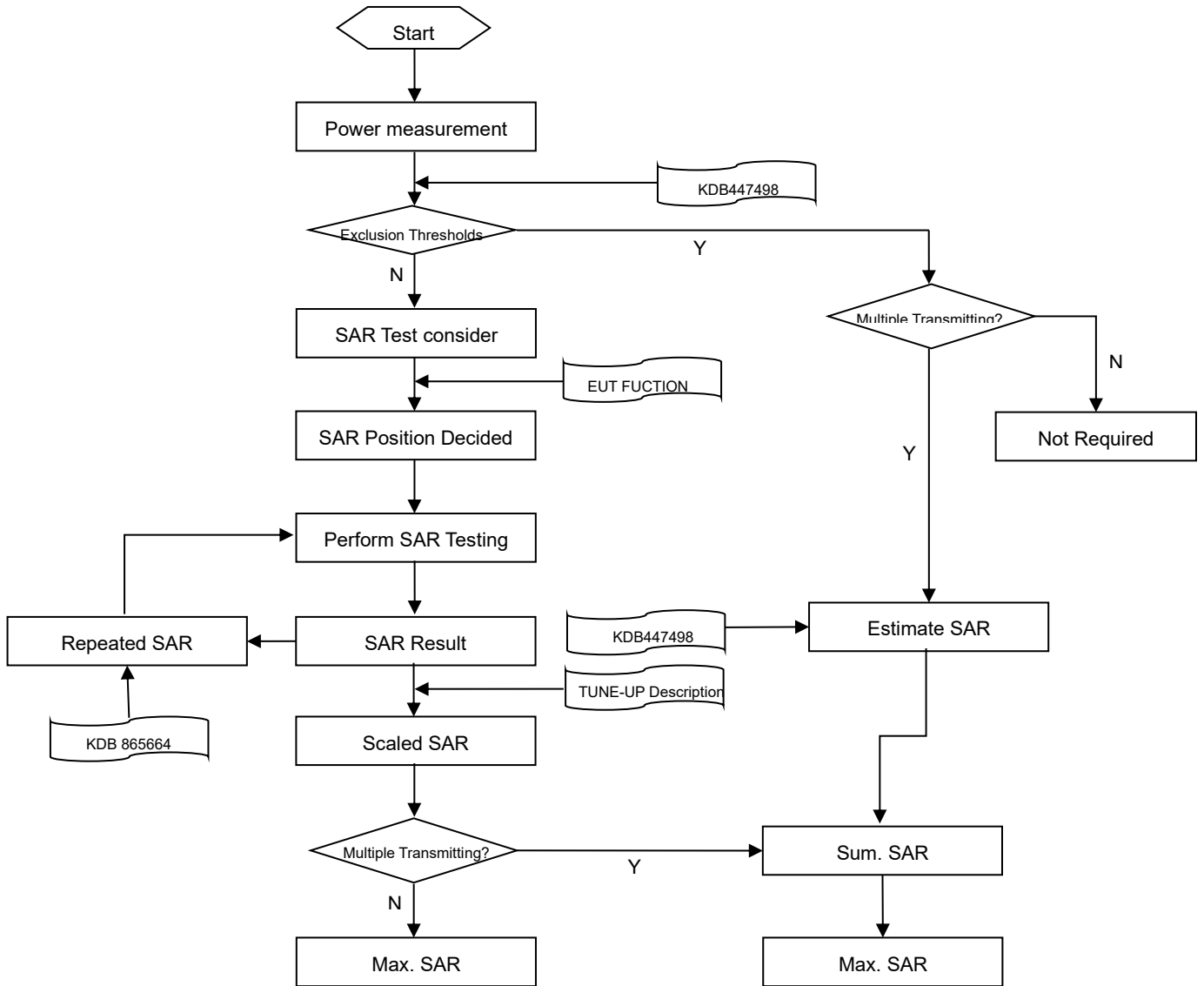
### 6.4 Product Specific 10g Exposure Consideration

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:

- $\delta$  is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.
- \* 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.

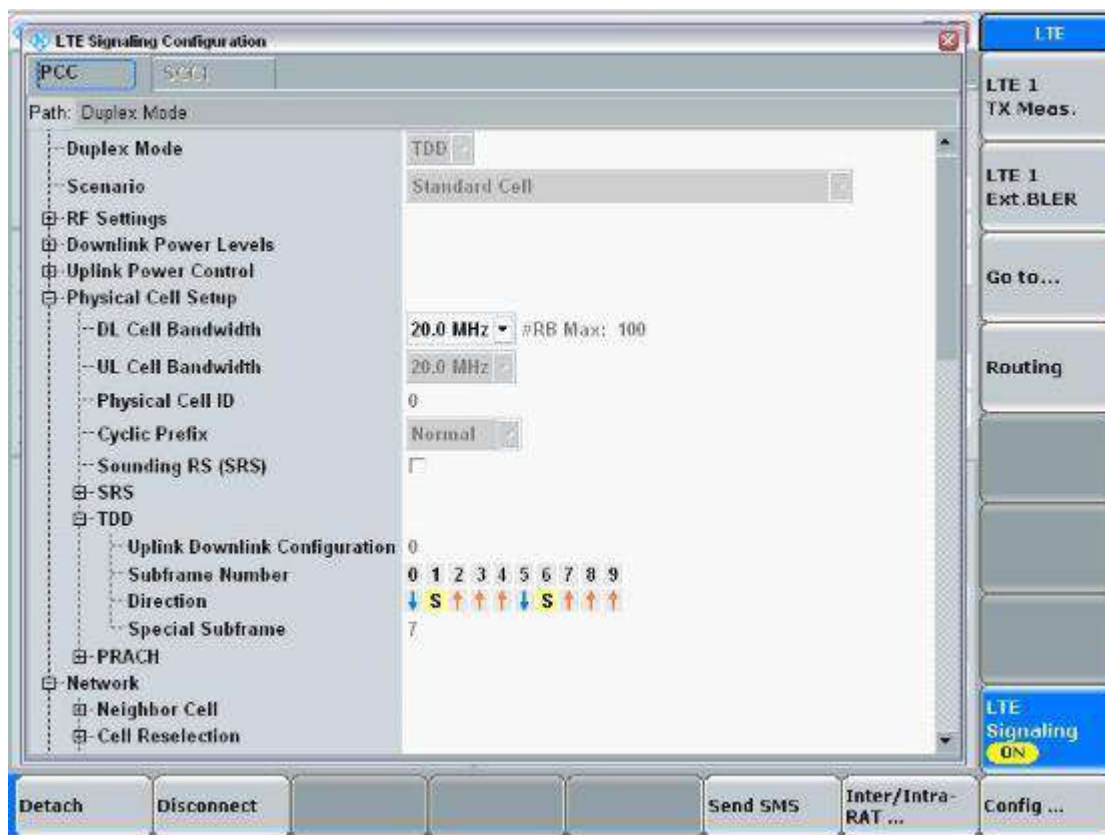
### 7.4 Area & Zoom Scan Procedure

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.

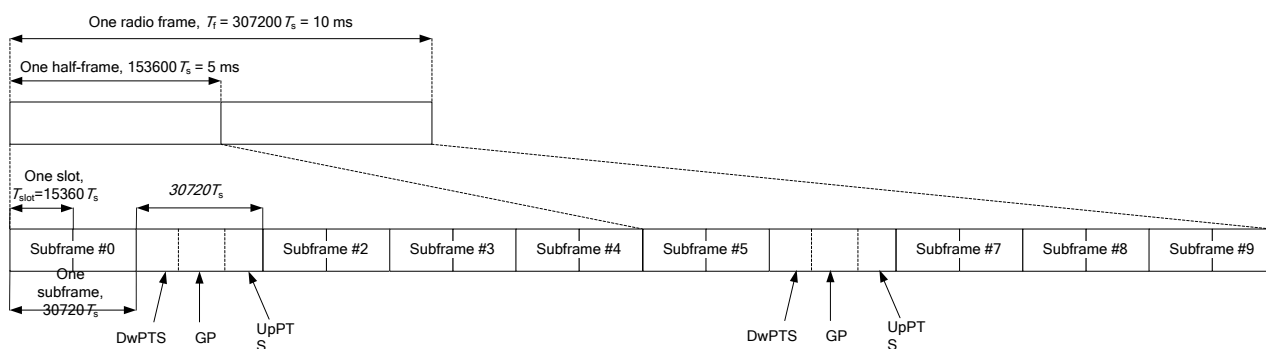
When the 1 g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.

## 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-SZ2491182-AP Power List.pdf”.

### 8.2 WCDMA

Please refer the document “BL-SZ2491182-AP Power List.pdf”.

### 8.3 LTE

Please refer the document “BL-SZ2491182-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-SZ2491182-AP Power List.pdf”.

### 8.5 Downlink CA Normal Power

Note:

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

Please refer the document “BL-SZ2491182-AP Power List.pdf”.

### 8.6 NR 5G

Please refer the document “BL-SZ2491182-AP Power List.pdf”.

## 8.7 WIFI

### 8.7.1 2.4G WIFI-Ant.9 Full Power

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.483)	802.11 b	1	2412	14.05	16.00	No
		2	2417	14.09	16.00	No
		3	2422	<b>14.51</b>	16.50	Yes
		4	2427	14.22	16.00	No
		5	2432	13.73	15.50	No
		6	2437	13.16	15.00	No
		7	2442	13.08	15.00	No
		8	2447	12.61	14.50	No
		9	2452	12.68	14.50	No
		10	2457	12.14	14.00	No
		11	2462	12.68	14.50	No
	802.11 g	1	2412	15.08	17.00	No
		2	2417	17.16	19.00	No
		6	2437	17.12	19.00	No
		10	2457	17.18	19.00	No
		11	2462	15.60	17.50	No
	802.11n(HT20)	1	2412	15.45	17.00	No
		2	2417	17.04	19.00	No
		6	2437	17.00	19.00	No
		10	2457	17.05	19.00	No
		11	2462	15.82	17.50	No
	802.11n(HT40)	3	2422	13.60	15.50	No
		4	2427	17.05	19.00	Yes
		6	2437	<b>17.09</b>	19.00	Yes
		8	2447	17.04	19.00	Yes
		9	2452	14.56	16.50	No
	VHT20	1	2412	15.41	17.00	No
		2	2417	17.21	19.00	No
		6	2437	17.32	19.00	No
		10	2457	17.32	19.00	No
		11	2462	16.30	18.00	No
	VHT40	3	2422	13.60	15.50	No
		4	2427	17.05	19.00	No
6		2437	17.02	19.00	No	
8		2447	17.09	19.00	No	
9		2452	14.56	16.50	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.

8.7.2 2.4G WIFI-Ant.9 Level1

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.483)	802.11 b	1	2412	14.05	16.00	No
		2	2417	14.09	16.00	No
		3	2422	<b>14.51</b>	16.50	Yes
		4	2427	14.22	16.00	No
		5	2432	13.73	15.50	No
		6	2437	13.16	15.00	No
		7	2442	13.08	15.00	No
		8	2447	12.61	14.50	No
		9	2452	12.68	14.50	No
		10	2457	12.14	14.00	No
		11	2462	12.68	14.50	No
	802.11 g	1	2412	15.08	17.00	No
		2	2417	17.16	19.00	No
		6	2437	17.12	19.00	No
		10	2457	17.18	19.00	No
		11	2462	15.60	17.50	No
	802.11n(HT20)	1	2412	15.45	17.00	No
		2	2417	17.04	19.00	No
		6	2437	17.00	19.00	No
		10	2457	17.05	19.00	No
		11	2462	15.82	17.50	No
	802.11n(HT40)	3	2422	13.60	15.50	No
		4	2427	17.05	19.00	Yes
		6	2437	<b>17.09</b>	19.00	Yes
		8	2447	17.04	19.00	Yes
		9	2452	14.56	16.50	No
	VHT20	1	2412	15.41	17.00	No
		2	2417	17.21	19.00	No
		6	2437	17.32	19.00	No
		10	2457	17.32	19.00	No
		11	2462	16.30	18.00	No
	VHT40	3	2422	13.60	15.50	No
		4	2427	17.05	19.00	No
		6	2437	17.02	19.00	No
		8	2447	17.09	19.00	No
		9	2452	14.56	16.50	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.

8.7.3 2.4G WIFI-Ant.9 Level3

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.483)	802.11 b	1	2412	14.05	16.00	No
		2	2417	/	16.00	No
		3	2422	/	16.00	No
		4	2427	<b>14.22</b>	16.00	Yes
		5	2432	13.73	15.50	No
		6	2437	13.16	15.00	No
		7	2442	13.08	15.00	No
		8	2447	12.61	14.50	No
		9	2452	12.68	14.50	No
		10	2457	12.14	14.00	No
		11	2462	12.68	14.50	No
	802.11 g	1	2412	14.62	16.00	No
		2	2417	/	16.00	No
		6	2437	14.69	16.00	No
		10	2457	/	16.00	No
		11	2462	14.72	16.00	No
	802.11n(HT20)	1	2412	14.48	16.00	No
		2	2417	/	16.00	No
		6	2437	14.45	16.00	No
		10	2457	/	16.00	No
		11	2462	14.52	16.00	No
	802.11n(HT40)	3	2422	13.60	15.50	No
		4	2427	14.60	16.00	No
		6	2437	14.64	16.00	No
		8	2447	/	16.00	No
		9	2452	14.09	16.00	No
	VHT20	1	2412	14.65	16.00	No
		2	2417	/	16.00	No
		6	2437	14.59	16.00	No
		10	2457	/	16.00	No
		11	2462	14.71	16.00	No
	VHT40	3	2422	13.60	15.50	No
		4	2427	14.51	16.00	No
		6	2437	14.53	16.00	No
		8	2447	/	16.00	No
		9	2452	14.03	16.00	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 =  $0.530 * (39.810\text{mW}/39.810\text{mW}) = 0.530$  W/Kg, so 2.4G OFDM SAR test is not required.

## 8.7.4 2.4G WIFI-Ant.9 Level5&amp;7

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.483)	802.11 b	1	2412	14.05	16.00	No
		2	2417	14.09	16.00	No
		3	2422	<b>14.51</b>	16.50	Yes
		4	2427	14.22	16.00	No
		5	2432	13.73	15.50	No
		6	2437	13.16	15.00	No
		7	2442	13.08	15.00	No
		8	2447	12.61	14.50	No
		9	2452	12.68	14.50	No
		10	2457	12.14	14.00	No
		11	2462	12.68	14.50	No
	802.11 g	1	2412	15.08	17.00	No
		2	2417	17.16	19.00	No
		6	2437	17.12	19.00	No
		10	2457	17.18	19.00	No
		11	2462	15.60	17.50	No
	802.11n(HT20)	1	2412	15.45	17.00	No
		2	2417	17.04	19.00	No
		6	2437	17.00	19.00	No
		10	2457	17.05	19.00	No
		11	2462	15.82	17.50	No
	802.11n(HT40)	3	2422	13.60	15.50	No
		4	2427	17.05	19.00	No
		6	2437	<b>17.09</b>	19.00	Yes
		8	2447	17.04	19.00	No
		9	2452	14.56	16.50	No
	VHT20	1	2412	15.41	17.00	No
		2	2417	17.21	19.00	No
		6	2437	17.32	19.00	No
		10	2457	17.32	19.00	No
		11	2462	16.30	18.00	No
	VHT40	3	2422	13.60	15.50	No
		4	2427	17.05	19.00	No
		6	2437	17.02	19.00	No
		8	2447	17.09	19.00	No
		9	2452	14.56	16.50	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.

8.7.5 5G WIFI-Ant.8 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	16.20	18.00	No
		44	5220	16.78	18.50	No
		48	5240	16.79	18.50	No
	802.11n(HT20)	36	5180	16.09	18.00	No
		44	5220	17.99	19.50	No
		48	5240	18.04	19.50	No
	802.11n(HT40)	38	5190	13.66	15.50	No
		46	5230	17.87	19.50	No
	802.11ac(VHT20)	36	5180	16.05	18.00	No
		44	5220	15.76	17.50	No
		48	5240	18.28	19.50	No
	802.11ac(VHT40)	38	5190	14.29	16.00	No
46		5230	15.87	17.50	No	
802.11ac(VHT80)	42	5210	12.97	14.50	No	
5.3 (5.25~5.35)	802.11a	52	5260	15.07	17.00	No
		60	5300	18.28	19.50	No
		64	5320	18.22	19.50	No
	802.11n(HT20)	52	5260	18.10	19.50	No
		60	5300	18.13	19.50	No
	802.11n(HT40)	64	5320	14.92	16.50	No
		54	5270	18.08	19.50	No
	802.11ac(VHT20)	62	5310	14.56	16.50	No
		52	5260	18.27	19.50	No
	802.11ac(VHT40)	60	5300	18.10	19.50	No
		64	5320	14.89	16.50	No
		54	5270	17.94	19.50	No
802.11ac(VHT80)	62	5310	13.01	15.00	No	
	58	5290	12.23	14.00	No	
5.6 (5.47~5.725)	802.11a	100	5500	15.41	17.00	No
		104	5520	17.97	19.50	No
		116	5580	18.12	19.50	No
		136	5680	18.01	19.50	No
		140	5700	12.41	14.00	No
	802.11n(HT20)	100	5500	14.28	16.00	No
		104	5520	17.95	19.50	No
		116	5580	18.24	19.50	No
		136	5680	18.00	19.50	No
		140	5700	12.28	14.00	No
802.11n(HT40)	102	5510	12.79	14.50	No	

		110	5550	17.95	19.50	No
		118	5590	18.19	19.50	No
		126	5630	17.92	19.50	No
		134	5670	14.93	16.50	No
	802.11ac(VHT20)	100	5500	14.35	16.00	No
		104	5520	17.95	19.50	No
		116	5580	18.12	19.50	No
		136	5680	17.99	19.50	No
		140	5700	12.76	14.50	No
	802.11ac(VHT40)	102	5510	12.84	14.50	No
		110	5550	18.03	19.50	No
		118	5590	18.19	19.50	No
		126	5630	17.94	19.50	No
		134	5670	14.43	16.00	No
	802.11ac(VHT80)	106	5530	11.88	13.50	No
		122	5610	13.60	15.50	No
	5.8 (5.725~5.850)	802.11a	149	5745	17.92	19.50
157			5785	18.27	19.50	No
165			5825	18.20	19.50	No
802.11n(HT20)		149	5745	18.05	19.50	No
		157	5785	17.93	19.50	No
		165	5825	18.05	19.50	No
802.11n(HT40)		151	5755	18.17	19.50	No
		159	5795	17.92	19.50	No
802.11ac(VHT20)		149	5745	18.15	19.50	No
		157	5785	17.97	19.50	No
		165	5825	18.06	19.50	No
802.11ac(VHT40)		151	5755	18.27	19.50	No
		159	5795	18.16	19.50	No
802.11ac(VHT80)	155	5775	18.00	19.50	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.

## 8.7.6 5G WIFI-Ant.8 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	13.01	14.00	No
		44	5220	13.23	14.00	No
		48	5240	13.11	14.00	No
	802.11n(HT20)	36	5180	13.19	14.00	No
		44	5220	13.12	14.00	No
		48	5240	12.92	14.00	No
	802.11n(HT40)	38	5190	13.13	14.00	No
		46	5230	12.99	14.00	No
	802.11ac(VHT20)	36	5180	13.07	14.00	No
		44	5220	12.98	14.00	No
		48	5240	12.93	14.00	No
	802.11ac(VHT40)	38	5190	12.99	14.00	No
46		5230	13.02	14.00	No	
802.11ac(VHT80)	42	5210	13.06	14.00	No	
5.3 (5.25~5.35)	802.11a	52	5260	12.91	14.00	No
		60	5300	12.98	14.00	No
		64	5320	13.03	14.00	No
	802.11n(HT20)	52	5260	12.89	14.00	No
		60	5300	13.17	14.00	No
		64	5320	12.98	14.00	No
	802.11n(HT40)	54	5270	13.22	14.00	No
		62	5310	13.04	14.00	No
	802.11ac(VHT20)	52	5260	12.99	14.00	No
		60	5300	13.09	14.00	No
		64	5320	13.06	14.00	No
	802.11ac(VHT40)	54	5270	12.89	14.00	No
62		5310	13.15	14.00	No	
802.11ac(VHT80)	58	5290	<b>13.11</b>	14.00	Yes	
5.6 (5.47~5.725)	802.11a	100	5500	12.04	13.00	No
		104	5520	/	13.00	No
		116	5580	12.18	13.00	No
		136	5680	/	13.00	No
		140	5700	12.00	13.00	No
	802.11n(HT20)	100	5500	11.92	13.00	No
		104	5520	/	13.00	No
		116	5580	11.97	13.00	No
		136	5680	/	13.00	No
		140	5700	12.18	13.00	No
802.11n(HT40)	102	5510	12.04	13.00	No	

		110	5550	/	13.00	No
		118	5590	12.23	13.00	No
		126	5630	/	13.00	No
		134	5670	11.91	13.00	No
	802.11ac(VHT20)	100	5500	11.90	13.00	No
		104	5520	/	13.00	No
		116	5580	12.04	13.00	No
		136	5680	/	13.00	No
		140	5700	11.94	13.00	No
	802.11ac(VHT40)	102	5510	12.02	13.00	No
		110	5550	/	13.00	No
		118	5590	11.91	13.00	No
		126	5630	/	13.00	No
		134	5670	11.89	13.00	No
	802.11ac(VHT80)	106	5530	11.95	13.00	Yes
		122	5610	<b>12.02</b>	13.00	Yes
	5.8 (5.725~5.850)	802.11a	149	5745	12.71	13.50
157			5785	12.73	13.50	No
165			5825	12.63	13.50	No
802.11n(HT20)		149	5745	12.59	13.50	No
		157	5785	12.46	13.50	No
		165	5825	12.47	13.50	No
802.11n(HT40)		151	5755	12.66	13.50	No
		159	5795	12.46	13.50	No
802.11ac(VHT20)		149	5745	12.48	13.50	No
		157	5785	12.40	13.50	No
		165	5825	12.47	13.50	No
802.11ac(VHT40)		151	5755	12.56	13.50	No
		159	5795	12.62	13.50	No
802.11ac(VHT80)		155	5775	<b>12.64</b>	13.50	Yes

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-Ant.8 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	9.65	10.50	No
		44	5220	9.71	10.50	No
		48	5240	9.64	10.50	No
	802.11n(HT20)	36	5180	9.55	10.50	No
		44	5220	9.59	10.50	No
		48	5240	9.72	10.50	No
	802.11n(HT40)	38	5190	9.65	10.50	No
		46	5230	9.46	10.50	No
	802.11ac(VHT20)	36	5180	9.46	10.50	No
		44	5220	9.57	10.50	No
		48	5240	9.60	10.50	No
	802.11ac(VHT40)	38	5190	9.62	10.50	No
46		5230	9.55	10.50	No	
802.11ac(VHT80)	42	5210	9.41	10.50	No	
5.3 (5.25~5.35)	802.11a	52	5260	9.62	10.50	No
		60	5300	9.40	10.50	No
		64	5320	9.59	10.50	No
	802.11n(HT20)	52	5260	9.73	10.50	No
		60	5300	9.55	10.50	No
	802.11n(HT40)	64	5320	9.65	10.50	No
		54	5270	9.60	10.50	No
	802.11ac(VHT20)	62	5310	9.73	10.50	No
		52	5260	9.62	10.50	No
		60	5300	9.55	10.50	No
	802.11ac(VHT40)	64	5320	9.60	10.50	No
		54	5270	9.53	10.50	No
802.11ac(VHT80)	62	5310	9.65	10.50	No	
	58	5290	<b>9.59</b>	10.50	Yes	
5.6 (5.47~5.725)	802.11a	100	5500	9.05	10.00	No
		104	5520	/	10.00	No
		116	5580	9.09	10.00	No
		136	5680	/	10.00	No
		140	5700	9.16	10.00	No
	802.11n(HT20)	100	5500	8.96	10.00	No
		104	5520	/	10.00	No
		116	5580	8.99	10.00	No
		136	5680	/	10.00	No
		140	5700	9.12	10.00	No
802.11n(HT40)	102	5510	9.03	10.00	No	

		110	5550	/	10.00	No
		118	5590	9.14	10.00	No
		126	5630	/	10.00	No
		134	5670	9.11	10.00	No
	802.11ac(VHT20)	100	5500	8.90	10.00	No
		104	5520	/	10.00	No
		116	5580	9.10	10.00	No
		136	5680	/	10.00	No
		140	5700	9.22	10.00	No
	802.11ac(VHT40)	102	5510	9.22	10.00	No
		110	5550	/	10.00	No
		118	5590	9.09	10.00	No
		126	5630	/	10.00	No
		134	5670	9.13	10.00	No
	802.11ac(VHT80)	106	5530	8.93	10.00	No
		122	5610	<b>9.04</b>	10.00	Yes
	5.8 (5.725~5.850)	802.11a	149	5745	9.48	10.50
157			5785	9.56	10.50	No
165			5825	9.40	10.50	No
802.11n(HT20)		149	5745	9.72	10.50	No
		157	5785	9.72	10.50	No
		165	5825	9.72	10.50	No
802.11n(HT40)		151	5755	9.67	10.50	No
		159	5795	9.54	10.50	No
802.11ac(VHT20)		149	5745	9.41	10.50	No
		157	5785	9.54	10.50	No
		165	5825	9.50	10.50	No
802.11ac(VHT40)		151	5755	9.52	10.50	No
		159	5795	9.71	10.50	No
802.11ac(VHT80)		155	5775	<b>9.57</b>	10.50	Yes

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-Ant.8 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	15.03	16.00	No
		44	5220	14.93	16.00	No
		48	5240	15.03	16.00	No
	802.11n(HT20)	36	5180	15.12	16.00	No
		44	5220	15.13	16.00	No
		48	5240	15.16	16.00	No
	802.11n(HT40)	38	5190	13.66	15.50	No
		46	5230	<b>14.92</b>	16.00	Yes
	802.11ac(VHT20)	36	5180	15.11	16.00	No
		44	5220	14.90	16.00	No
		48	5240	15.03	16.00	No
	802.11ac(VHT40)	38	5190	14.29	16.00	No
46		5230	15.23	16.00	No	
802.11ac(VHT80)	42	5210	12.97	14.50	No	
5.3 (5.25~5.35)	802.11a	52	5260	15.14	16.00	No
		60	5300	15.14	16.00	No
		64	5320	14.92	16.00	No
	802.11n(HT20)	52	5260	14.99	16.00	No
		60	5300	15.09	16.00	No
		64	5320	14.97	16.00	No
	802.11n(HT40)	54	5270	<b>15.03</b>	16.00	Yes
		62	5310	15.00	16.00	No
	802.11ac(VHT20)	52	5260	14.97	16.00	No
		60	5300	14.97	16.00	No
		64	5320	15.17	16.00	No
	802.11ac(VHT40)	54	5270	15.19	16.00	No
62		5310	13.01	15.00	No	
802.11ac(VHT80)	58	5290	12.23	14.00	No	
5.6 (5.47~5.725)	802.11a	100	5500	14.94	16.00	No
		104	5520	15.11	16.00	No
		116	5580	15.11	16.00	No
		136	5680	15.02	16.00	No
		140	5700	12.41	14.00	No
	802.11n(HT20)	100	5500	14.28	16.00	No
		104	5520	/	16.00	No
		116	5580	14.95	16.00	No
		136	5680	14.93	16.00	No
		140	5700	12.28	14.00	No
802.11n(HT40)	102	5510	12.79	14.50	No	



		110	5550	14.87	16.00	No
		118	5590	<b>14.91</b>	16.00	Yes
		126	5630	/	16.00	No
		134	5670	14.90	16.00	No
	802.11ac(VHT20)	100	5500	14.35	16.00	No
		104	5520	/	16.00	No
		116	5580	15.09	16.00	No
		136	5680	15.01	16.00	No
		140	5700	12.76	14.50	No
	802.11ac(VHT40)	102	5510	12.84	14.50	No
		110	5550	15.04	16.00	No
		118	5590	15.23	16.00	No
		126	5630	/	16.00	No
		134	5670	14.43	16.00	No
	802.11ac(VHT80)	106	5530	11.88	13.50	No
		122	5610	13.60	15.50	No
	5.8 (5.725~5.850)	802.11a	149	5745	16.63	17.00
157			5785	16.73	17.00	No
165			5825	16.39	17.00	No
802.11n(HT20)		149	5745	16.41	17.00	No
		157	5785	16.62	17.00	No
		165	5825	16.52	17.00	No
802.11n(HT40)		151	5755	16.60	17.00	No
		159	5795	16.63	17.00	No
802.11ac(VHT20)		149	5745	16.64	17.00	No
		157	5785	16.55	17.00	No
		165	5825	16.73	17.00	No
802.11ac(VHT40)		151	5755	16.57	17.00	No
		159	5795	16.49	17.00	No
802.11ac(VHT80)		155	5775	<b>16.92</b>	17.00	Yes

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-Ant.8 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	12.12	13.00	No
		44	5220	12.06	13.00	No
		48	5240	11.91	13.00	No
	802.11n(HT20)	36	5180	12.17	13.00	No
		44	5220	11.91	13.00	No
		48	5240	11.95	13.00	No
	802.11n(HT40)	38	5190	11.95	13.00	No
		46	5230	12.20	13.00	No
	802.11ac(VHT20)	36	5180	12.06	13.00	No
		44	5220	12.01	13.00	No
		48	5240	12.18	13.00	No
	802.11ac(VHT40)	38	5190	12.10	13.00	No
46		5230	11.89	13.00	No	
802.11ac(VHT80)	42	5210	<b>12.23</b>	13.00	Yes	
5.3 (5.25~5.35)	802.11a	52	5260	12.08	13.00	No
		60	5300	12.03	13.00	No
		64	5320	12.08	13.00	No
	802.11n(HT20)	52	5260	11.92	13.00	No
		60	5300	11.95	13.00	No
		64	5320	12.19	13.00	No
	802.11n(HT40)	54	5270	12.20	13.00	No
		62	5310	12.22	13.00	No
	802.11ac(VHT20)	52	5260	12.09	13.00	No
		60	5300	11.96	13.00	No
		64	5320	12.03	13.00	No
	802.11ac(VHT40)	54	5270	12.04	13.00	No
62		5310	12.23	13.00	No	
802.11ac(VHT80)	58	5290	<b>12.08</b>	13.00	Yes	
5.6 (5.47~5.725)	802.11a	100	5500	11.92	13.00	No
		104	5520	/	13.00	No
		116	5580	11.90	13.00	No
		136	5680	/	13.00	No
		140	5700	12.07	13.00	No
	802.11n(HT20)	100	5500	11.90	13.00	No
		104	5520	/	13.00	No
		116	5580	11.97	13.00	No
		136	5680	/	13.00	No
		140	5700	11.94	13.00	No
802.11n(HT40)	102	5510	11.98	13.00	No	

		110	5550	/	13.00	No	
		118	5590	12.01	13.00	No	
		126	5630	/	13.00	No	
		134	5670	11.95	13.00	No	
	802.11ac(VHT20)	100	5500	11.91	13.00	No	
		104	5520	/	13.00	No	
		116	5580	12.20	13.00	No	
		136	5680	/	13.00	No	
		140	5700	12.18	13.00	No	
	802.11ac(VHT40)	102	5510	12.22	13.00	No	
		110	5550	/	13.00	No	
		118	5590	11.92	13.00	No	
		126	5630	/	13.00	No	
		134	5670	12.07	13.00	No	
	802.11ac(VHT80)	106	5530	<b>12.19</b>	13.00	Yes	
		122	5610	12.08	13.00	No	
	5.8 (5.725~5.850)	802.11a	149	5745	13.70	14.00	No
			157	5785	13.57	14.00	No
			165	5825	13.56	14.00	No
802.11n(HT20)		149	5745	13.51	14.00	No	
		157	5785	13.41	14.00	No	
		165	5825	13.52	14.00	No	
802.11n(HT40)		151	5755	13.48	14.00	No	
		159	5795	13.39	14.00	No	
802.11ac(VHT20)		149	5745	13.44	14.00	No	
		157	5785	13.52	14.00	No	
		165	5825	13.73	14.00	No	
802.11ac(VHT40)		151	5755	13.42	14.00	No	
		159	5795	13.57	14.00	No	
802.11ac(VHT80)		155	5775	<b>13.95</b>	14.00	Yes	

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.

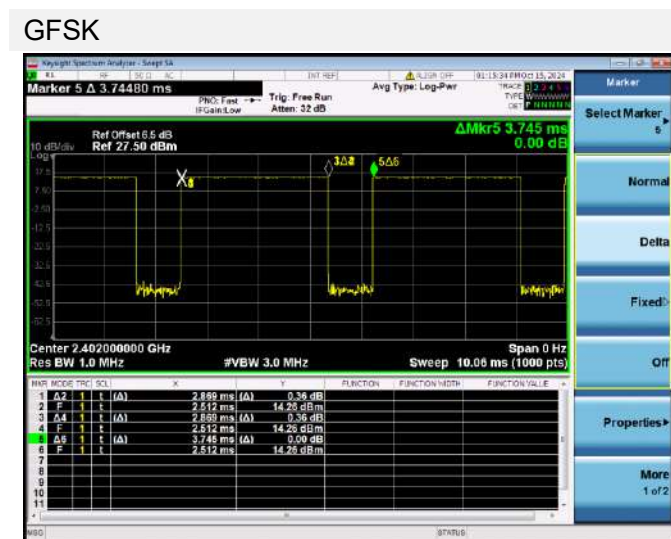
### 8.8 Bluetooth

Mode	GFSK			π/4-DQPSK		
Channel	0	39	78	0	39	78
Frequency (MHz)	2402	2441	2480	2402	2441	2480
Conducted Power (dBm)	15.01	15.05	<b>15.08</b>	12.80	12.99	12.02
Tune-Up Limit (dBm)	17.00	17.00	17.00	14.00	14.00	14.00
SAR Test Require	NO	NO	YES	NO	NO	NO
Mode	8-DPSK			/		
Channel	0	39	78	/	/	/
Frequency (MHz)	2402	2441	2480	/	/	/
Conducted Power (dBm)	12.65	12.79	12.05	/	/	/
Tune-Up Limit (dBm)	14.00	14.00	14.00	/	/	/
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)	7.14	7.60	7.53	7.03	7.48	7.54
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

Note 1: Since bluetooth BR mode is the maximum output power mode, SAR measurements were performed with test software using DH5 modulation, and SAR measurement is not required for the EDR and LE. When the secondary mode is  $\leq \frac{1}{4}$  dB higher than the primary mode.

Note: The Bluetooth duty cycle is 76.61 % as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 100%, therefore the actual duty cycle will be scaled up to 100% for Bluetooth reported SAR calculation.

#### Duty Cycle



### 8.9 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 conditions		Antenna	Position
State5	On (head scenario)	WWAN Use Only & WWAN + BT		Ant.0	Head
				Ant.1	
				Ant.3	
				Ant.4	
State10	On (head scenario)	WWAN + WLAN		Ant.0	Head
				Ant.1	
				Ant.3	
				Ant.4	
State3	Off (Body scenario)	WWAN Use Only & WWAN + BT		Ant.0	Front Side;Back Side;Left Edge;Right Edge;Top Edge;Bottom Edge
				Ant.1	
				Ant.3	
				Ant.4	
State8	Off (Body scenario)	WWAN + WLAN		Ant.0	Front Side;Back Side;Left Edge;Right Edge;Top Edge;Bottom Edge
				Ant.1	
				Ant.3	
				Ant.4	

Mode	Antenna	WWAN Antenna									
		Full Power	Receiver on			Receiver off					
			Head		Body-worn		Hotspot		Specific		
			WWAN Use Only & WWAN + BT	WWAN + WLAN	WWAN Use Only & WWAN + BT	WWAN + WLAN	WWAN + BT	WWAN + WLAN	WWAN Use Only & WWAN + BT	WWAN + WLAN	
Off	State5	State10	State3	State8	State3	State8	State3	State8			
GSM 850	Ant.0	33.50	33.50	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	33.50	33.50	
GPRS850 2 Tx Slot	Ant.0	31.00	31.00	31.00	31.00	31.00	31.00	31.00	31.00	31.00	
GPRS850 3 Tx Slot	Ant.0	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00	
GPRS850 4 Tx Slot	Ant.0	28.00	28.00	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	28.50	28.50
EGPRS850 2 Tx Slot	Ant.0	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00
EGPRS850 3 Tx Slot	Ant.0	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00
EGPRS850 4 Tx Slot	Ant.0	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.50
GSM 850	Ant.1	33.50	33.50	33.50	33.50	33.50	33.50	33.50	33.50	33.50
GPRS850 1 Tx Slot	Ant.1	33.50	33.50	33.50	33.50	33.50	33.50	33.50	33.50	33.50
GPRS850 2 Tx Slot	Ant.1	31.00	31.00	31.00	31.00	31.00	31.00	31.00	31.00	31.00
GPRS850 3 Tx Slot	Ant.1	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00
GPRS850 4 Tx Slot	Ant.1	28.00	28.00	28.00	28.00	28.00	28.00	28.00	28.00	28.00
EGPRS850 1 Tx Slot	Ant.1	28.50	28.50	28.50	28.50	28.50	28.50	28.50	28.50	28.50
EGPRS850 2 Tx Slot	Ant.1	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00
EGPRS850 3 Tx Slot	Ant.1	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00
EGPRS850 4 Tx Slot	Ant.1	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.50
GSM1900	Ant.0	30.50	30.50	30.50	30.50	30.50	30.50	30.50	30.50	30.50
GPRS1900 1 Tx Slot	Ant.0	30.50	30.50	30.50	30.50	30.50	30.50	30.50	30.50	30.50
GPRS1900 2 Tx Slot	Ant.0	28.00	28.00	28.00	28.00	28.00	28.00	28.00	28.00	28.00
GPRS1900 3 Tx Slot	Ant.0	26.50	26.50	26.50	26.50	26.50	26.50	26.50	26.50	26.50
GPRS1900 4 Tx Slot	Ant.0	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00
EGPRS1900 1 Tx Slot	Ant.0	28.00	28.00	28.00	28.00	28.00	28.00	28.00	28.00	28.00
EGPRS1900 2 Tx Slot	Ant.0	26.50	26.50	26.50	26.50	26.50	26.50	26.50	26.50	26.50
EGPRS1900 3 Tx Slot	Ant.0	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00
EGPRS1900 4 Tx Slot	Ant.0	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50
GSM1900	Ant.3	30.50	29.00	28.00	30.50	30.50	30.50	30.50	30.50	30.50
GPRS1900 1 Tx Slot	Ant.3	30.50	29.00	28.00	30.50	30.50	30.50	30.50	30.50	30.50
GPRS1900 2 Tx Slot	Ant.3	28.00	26.50	25.50	28.00	28.00	28.00	28.00	28.00	28.00
GPRS1900 3 Tx Slot	Ant.3	26.50	25.00	24.00	26.50	26.50	26.50	26.50	26.50	26.50
GPRS1900 4 Tx Slot	Ant.3	25.00	23.50	22.50	25.00	25.00	25.00	25.00	25.00	25.00
EGPRS1900 1 Tx Slot	Ant.3	28.00	26.50	25.50	28.00	28.00	28.00	28.00	28.00	28.00
EGPRS1900 2 Tx Slot	Ant.3	26.50	25.00	24.00	26.50	26.50	26.50	26.50	26.50	26.50
EGPRS1900 3 Tx Slot	Ant.3	24.00	22.50	21.50	24.00	24.00	24.00	24.00	24.00	24.00
EGPRS1900 4 Tx Slot	Ant.3	22.50	21.00	20.00	22.50	22.50	22.50	22.50	22.50	22.50
WCDMA Band2 RMC	Ant.0	24.00	24.00	24.00	22.25	21.50	22.25	21.50	22.25	21.50
WCDMA Band2 AMR	Ant.0	24.00	24.00	24.00	22.25	21.50	22.25	21.50	22.25	21.50
HSDPA Subtest-1	Ant.0	23.00	23.00	23.00	21.25	20.50	21.25	20.50	21.25	20.50
HSDPA Subtest-2	Ant.0	23.00	23.00	23.00	21.25	20.50	21.25	20.50	21.25	20.50
HSDPA Subtest-3	Ant.0	22.50	22.50	22.50	20.75	20.00	20.75	20.00	20.75	20.00
HSDPA Subtest-4	Ant.0	22.50	22.50	22.50	20.75	20.00	20.75	20.00	20.75	20.00
DC-HSDPA Subtest-1	Ant.0	23.00	23.00	23.00	21.25	20.50	21.25	20.50	21.25	20.50
DC-HSDPA Subtest-2	Ant.0	23.00	23.00	23.00	21.25	20.50	21.25	20.50	21.25	20.50
DC-HSDPA Subtest-3	Ant.0	22.50	22.50	22.50	20.75	20.00	20.75	20.00	20.75	20.00
DC-HSDPA Subtest-4	Ant.0	22.50	22.50	22.50	20.75	20.00	20.75	20.00	20.75	20.00
HSUPA Subtest-1	Ant.0	21.50	21.50	21.50	19.75	19.00	19.75	19.00	19.75	19.00
HSUPA Subtest-2	Ant.0	20.00	20.00	20.00	18.25	17.50	18.25	17.50	18.25	17.50

HSUPA Subtest-3	Ant.0	21.00	21.00	21.00	19.25	18.50	19.25	18.50	19.25	18.50
HSUPA Subtest-4	Ant.0	20.50	20.50	20.50	18.75	18.00	18.75	18.00	18.75	18.00
HSUPA Subtest-5	Ant.0	23.00	23.00	23.00	21.25	20.50	21.25	20.50	21.25	20.50
HSPA+(16QAM)	Ant.0	22.50	22.50	22.50	20.75	20.00	20.75	20.00	20.75	20.00
WCDMA Band2 RMC	Ant.3	24.00	19.00	18.25	21.25	20.75	21.25	20.75	21.25	20.75
WCDMA Band2 AMR	Ant.3	24.00	19.00	18.25	21.25	20.75	21.25	20.75	21.25	20.75
HSDPA Subtest-1	Ant.3	23.00	18.00	17.25	20.25	19.75	20.25	19.75	20.25	19.75
HSDPA Subtest-2	Ant.3	23.00	18.00	17.25	20.25	19.75	20.25	19.75	20.25	19.75
HSDPA Subtest-3	Ant.3	22.50	17.50	16.75	19.75	19.25	19.75	19.25	19.75	19.25
HSDPA Subtest-4	Ant.3	22.50	17.50	16.75	19.75	19.25	19.75	19.25	19.75	19.25
DC-HSDPA Subtest-1	Ant.3	23.00	18.00	17.25	20.25	19.75	20.25	19.75	20.25	19.75
DC-HSDPA Subtest-2	Ant.3	23.00	18.00	17.25	20.25	19.75	20.25	19.75	20.25	19.75
DC-HSDPA Subtest-3	Ant.3	22.50	17.50	16.75	19.75	19.25	19.75	19.25	19.75	19.25
DC-HSDPA Subtest-4	Ant.3	22.50	17.50	16.75	19.75	19.25	19.75	19.25	19.75	19.25
HSUPA Subtest-1	Ant.3	21.50	16.50	15.75	18.75	18.25	18.75	18.25	18.75	18.25
HSUPA Subtest-2	Ant.3	20.00	15.00	14.25	17.25	16.75	17.25	16.75	17.25	16.75
HSUPA Subtest-3	Ant.3	21.00	16.00	15.25	18.25	17.75	18.25	17.75	18.25	17.75
HSUPA Subtest-4	Ant.3	20.50	15.50	14.75	17.75	17.25	17.75	17.25	17.75	17.25
HSUPA Subtest-5	Ant.3	23.00	18.00	17.25	20.25	19.75	20.25	19.75	20.25	19.75
HSPA+(16QAM)	Ant.3	22.50	17.50	16.75	19.75	19.25	19.75	19.25	19.75	19.25
WCDMA Band4 RMC	Ant.0	24.00	24.00	24.00	22.75	22.00	22.75	22.00	22.75	22.00
WCDMA Band4 AMR	Ant.0	24.00	24.00	24.00	22.75	22.00	22.75	22.00	22.75	22.00
HSDPA Subtest-1	Ant.0	23.00	23.00	23.00	21.75	21.00	21.75	21.00	21.75	21.00
HSDPA Subtest-2	Ant.0	23.00	23.00	23.00	21.75	21.00	21.75	21.00	21.75	21.00
HSDPA Subtest-3	Ant.0	22.50	22.50	22.50	21.25	20.50	21.25	20.50	21.25	20.50
HSDPA Subtest-4	Ant.0	22.50	22.50	22.50	21.25	20.50	21.25	20.50	21.25	20.50
DC-HSDPA Subtest-1	Ant.0	23.00	23.00	23.00	21.75	21.00	21.75	21.00	21.75	21.00
DC-HSDPA Subtest-2	Ant.0	23.00	23.00	23.00	21.75	21.00	21.75	21.00	21.75	21.00
DC-HSDPA Subtest-3	Ant.0	22.50	22.50	22.50	21.25	20.50	21.25	20.50	21.25	20.50
DC-HSDPA Subtest-4	Ant.0	22.50	22.50	22.50	21.25	20.50	21.25	20.50	21.25	20.50
HSUPA Subtest-1	Ant.0	21.50	21.50	21.50	20.25	19.50	20.25	19.50	20.25	19.50
HSUPA Subtest-2	Ant.0	20.00	20.00	20.00	18.75	18.00	18.75	18.00	18.75	18.00
HSUPA Subtest-3	Ant.0	21.00	21.00	21.00	19.75	19.00	19.75	19.00	19.75	19.00
HSUPA Subtest-4	Ant.0	20.50	20.50	20.50	19.25	18.50	19.25	18.50	19.25	18.50
HSUPA Subtest-5	Ant.0	23.00	23.00	23.00	21.75	21.00	21.75	21.00	21.75	21.00
HSPA+(16QAM)	Ant.0	22.50	22.50	22.50	21.25	20.50	21.25	20.50	21.25	20.50
WCDMA Band4 RMC	Ant.1	24.00	19.25	18.50	21.50	21.00	21.50	21.00	21.50	21.00
WCDMA Band4 AMR	Ant.1	24.00	19.25	18.50	21.50	21.00	21.50	21.00	21.50	21.00
HSDPA Subtest-1	Ant.1	23.00	18.25	17.50	20.50	20.00	20.50	20.00	20.50	20.00
HSDPA Subtest-2	Ant.1	23.00	18.25	17.50	20.50	20.00	20.50	20.00	20.50	20.00
HSDPA Subtest-3	Ant.1	22.50	17.75	17.00	20.00	19.50	20.00	19.50	20.00	19.50
HSDPA Subtest-4	Ant.1	22.50	17.75	17.00	20.00	19.50	20.00	19.50	20.00	19.50
DC-HSDPA Subtest-1	Ant.1	23.00	18.25	17.50	20.50	20.00	20.50	20.00	20.50	20.00

DC-HSDPA Subtest-2	Ant.1	23.00	18.25	17.50	20.50	20.00	20.50	20.00	20.50	20.00
DC-HSDPA Subtest-3	Ant.1	22.50	17.75	17.00	20.00	19.50	20.00	19.50	20.00	19.50
DC-HSDPA Subtest-4	Ant.1	22.50	17.75	17.00	20.00	19.50	20.00	19.50	20.00	19.50
HSUPA Subtest-1	Ant.1	21.50	16.75	16.00	19.00	18.50	19.00	18.50	19.00	18.50
HSUPA Subtest-2	Ant.1	20.00	15.25	14.50	17.50	17.00	17.50	17.00	17.50	17.00
HSUPA Subtest-3	Ant.1	21.00	16.25	15.50	18.50	18.00	18.50	18.00	18.50	18.00
HSUPA Subtest-4	Ant.1	20.50	15.75	15.00	18.00	17.50	18.00	17.50	18.00	17.50
HSUPA Subtest-5	Ant.1	23.00	18.25	17.50	20.50	20.00	20.50	20.00	20.50	20.00
HSPA+(16QAM)	Ant.1	22.50	17.75	17.00	20.00	19.50	20.00	19.50	20.00	19.50
WCDMA Band5 RMC	Ant.0	24.50	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	24.50
HSDPA Subtest-1	Ant.0	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.50
HSDPA Subtest-2	Ant.0	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.50
HSDPA Subtest-3	Ant.0	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00
HSDPA Subtest-4	Ant.0	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00
DC-HSDPA Subtest-1	Ant.0	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.50
DC-HSDPA Subtest-2	Ant.0	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.50
DC-HSDPA Subtest-3	Ant.0	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00
DC-HSDPA Subtest-4	Ant.0	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00
HSUPA Subtest-1	Ant.0	22.00	22.00	22.00	22.00	22.00	22.00	22.00	22.00	22.00
HSUPA Subtest-2	Ant.0	20.50	20.50	20.50	20.50	20.50	20.50	20.50	20.50	20.50
HSUPA Subtest-3	Ant.0	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50
HSUPA Subtest-4	Ant.0	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00
HSUPA Subtest-5	Ant.0	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.50
HSPA+(16QAM)	Ant.0	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50
WCDMA Band5 RMC	Ant.1	24.50	24.50	24.00	24.50	24.50	24.50	24.50	24.50	24.50
WCDMA Band5 AMR	Ant.1	24.50	24.50	24.00	24.50	24.50	24.50	24.50	24.50	24.50
HSDPA Subtest-1	Ant.1	23.50	23.50	23.00	23.50	23.50	23.50	23.50	23.50	23.50
HSDPA Subtest-2	Ant.1	23.50	23.50	23.00	23.50	23.50	23.50	23.50	23.50	23.50
HSDPA Subtest-3	Ant.1	23.00	23.00	22.50	23.00	23.00	23.00	23.00	23.00	23.00
HSDPA Subtest-4	Ant.1	23.00	23.00	22.50	23.00	23.00	23.00	23.00	23.00	23.00
DC-HSDPA Subtest-1	Ant.1	23.50	23.50	23.00	23.50	23.50	23.50	23.50	23.50	23.50
DC-HSDPA Subtest-2	Ant.1	23.50	23.50	23.00	23.50	23.50	23.50	23.50	23.50	23.50
DC-HSDPA Subtest-3	Ant.1	23.00	23.00	22.50	23.00	23.00	23.00	23.00	23.00	23.00
DC-HSDPA Subtest-4	Ant.1	23.00	23.00	22.50	23.00	23.00	23.00	23.00	23.00	23.00
HSUPA Subtest-1	Ant.1	22.00	22.00	21.50	22.00	22.00	22.00	22.00	22.00	22.00
HSUPA Subtest-2	Ant.1	20.50	20.50	20.00	20.50	20.50	20.50	20.50	20.50	20.50
HSUPA Subtest-3	Ant.1	21.50	21.50	21.00	21.50	21.50	21.50	21.50	21.50	21.50
HSUPA Subtest-4	Ant.1	21.00	21.00	20.50	21.00	21.00	21.00	21.00	21.00	21.00
HSUPA Subtest-5	Ant.1	23.50	23.50	23.00	23.50	23.50	23.50	23.50	23.50	23.50
HSPA+(16QAM)	Ant.1	22.50	22.50	22.00	22.50	22.50	22.50	22.50	22.50	22.50
LTE Band2	Ant.0	23.50	23.50	23.50	22.25	21.25	22.25	21.25	22.25	21.25
LTE Band2	Ant.3	23.50	19.00	18.25	21.00	20.75	21.00	20.75	21.00	20.75



LTE Band4	Ant.0	23.50	23.50	23.50	23.00	22.50	23.00	22.50	23.00	22.50
LTE Band4	Ant.3	23.50	19.75	19.00	22.00	21.50	22.00	21.50	22.00	21.50
LTE Band5	Ant.0	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50
LTE Band5	Ant.1	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50
LTE Band7	Ant.0	24.20	24.20	24.20	24.20	23.20	24.20	23.20	24.20	23.20
LTE Band7	Ant.3	24.20	19.45	18.95	20.20	19.95	20.20	19.95	20.20	19.95
LTE Band7	Ant.4	23.20	23.20	23.20	20.70	20.70	20.70	20.70	20.70	20.70
LTE Band12	Ant.0	24.50	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	24.50
LTE Band13	Ant.0	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50
LTE Band13	Ant.1	24.50	24.50	23.50	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	24.50
LTE Band17	Ant.1	24.50	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	24.00
LTE Band26	Ant.1	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00
LTE Band66	Ant.0	24.00	24.00	24.00	21.50	21.25	21.50	21.25	21.50	21.25
LTE Band66	Ant.3	24.00	19.25	18.25	23.00	22.50	23.00	22.50	23.00	22.50
LTE Band38	Ant.0	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00
LTE Band38	Ant.3	24.00	20.00	19.75	21.75	21.50	21.75	21.50	21.75	21.50
LTE Band38	Ant.4	23.00	23.00	23.00	21.75	21.50	21.75	21.50	21.75	21.50
LTE Band41	Ant.0	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50
LTE Band41	Ant.3	24.50	20.00	19.50	21.50	21.25	21.50	21.25	21.50	21.25
LTE Band41	Ant.4	23.00	23.00	23.00	21.00	20.75	21.00	20.75	21.00	20.75
N5	Ant.0	24.20	24.20	24.20	24.20	24.20	24.20	24.20	24.20	24.20
N5	Ant.1	24.20	24.20	24.20	24.20	24.20	24.20	24.20	24.20	24.20
N7	Ant.0	24.20	24.20	24.20	24.20	23.45	24.20	23.45	24.20	23.45
N7	Ant.3	24.20	19.70	19.20	20.70	20.20	20.70	20.20	20.70	20.20
N7	Ant.4	23.20	23.20	23.20	21.95	21.45	21.95	21.45	21.95	21.45
N66	Ant.0	24.20	24.20	24.20	22.95	22.20	22.95	22.20	22.95	22.20
N66	Ant.3	24.20	20.20	19.20	21.95	21.20	21.95	21.20	21.95	21.20
N38	Ant.0	24.20	24.20	24.20	24.20	24.20	24.20	24.20	24.20	24.20
N38	Ant.3	24.20	18.45	17.95	20.20	19.70	20.20	19.70	20.20	19.70
N38	Ant.4	23.20	23.20	23.20	20.45	19.70	20.45	19.70	20.45	19.70
N41	Ant.0	24.20	24.20	24.20	24.20	24.20	24.20	24.20	24.20	24.20
N41	Ant.3	24.20	18.70	18.20	19.70	18.95	19.70	18.95	19.70	18.95
N41	Ant.4	23.20	23.20	23.20	19.95	19.45	19.95	19.45	19.95	19.45

LTE-UL CA Configurations	UL CA	UL CA	Antenna Configurations			
	Band1	Band2	1	2	3	4
CA_7C	LTE Band7	LTE Band7	LTE Ant.0	LTE Ant.3	/	/
CA_38C	LTE Band38	LTE Band38	LTE Ant.0	LTE Ant.3	/	/
CA_41C	LTE Band41	LTE Band41	LTE Ant.0	LTE Ant.3	/	/
CA_2A_4A	LTE Band2	LTE Band4	LTE Ant.0	/	/	/
			LTE Ant.3	/	/	/
CA_2A_7A	LTE Band2	LTE Band7	LTE Ant.0	LTE Ant.0	/	/
			LTE Ant.3	LTE Ant.4	/	/
CA_4A_7A	LTE Band4	LTE Band7	LTE Ant.0	LTE Ant.0	/	/
			LTE Ant.3	LTE Ant.4	/	/

Mode	Band	Antenna	LTE-Inter CA Antenna								
			Full Power	Receiver on		Receiver off					
				Head		Body-worn		Hotspot		Specific	
				WWAN Use Only & WWAN + BT	WWAN + WLAN	WWAN Use Only & WWAN + BT	WWAN + WLAN	WWAN + BT	WWAN + WLAN	WWAN Use Only & WWAN + BT	WWAN + WLAN
Off	State5	State10	State3	State8	State3	State8	State3	State8			
CA_2A+4A	LTE Band2	Ant.0	23.50	23.50	23.50	20.50	18.25	20.50	18.25	20.50	18.25
	LTE Band4	Ant.3	23.50	16.75	16.00	19.00	18.50	19.00	18.50	19.00	18.50
CA_2A+7A	LTE Band2	Ant.0	23.50	23.50	23.50	20.50	18.25	20.50	18.25	20.50	18.25
	LTE Band7	Ant.3	24.20	17.95	16.95	17.20	16.95	17.20	16.95	17.20	16.95
	LTE Band7	Ant.4	23.20	20.20	20.20	17.70	17.70	17.70	17.70	17.70	17.70
CA_4A+7A	LTE Band4	Ant.0	23.50	23.50	23.50	20.00	19.50	20.00	19.50	20.00	19.50
	LTE Band7	Ant.3	24.20	17.95	16.95	17.20	16.95	17.20	16.95	17.20	16.95
	LTE Band7	Ant.4	23.20	20.20	20.20	17.70	17.70	17.70	17.70	17.70	17.70

EN-DC Configurations	E-UTRA	NR	Antenna Configurations				
	Band	Band	1	2	3	4	5
7A+n5A	LTE Band7	n5	LTE Ant.3	LTE Ant.0	LTE Ant.3	/	/
			nr Ant.0	nr Ant.1	nr Ant.1	/	/
66A+n5A	LTE Band66	n5	LTE Ant.3	LTE Ant.0	LTE Ant.3	/	/
			nr Ant.0	nr Ant.1	nr Ant.1	/	/
2A+n7A	LTE Band2	n7	LTE Ant.0	LTE Ant.0	/	/	/
			nr Ant.3	nr Ant.4	/	/	/
4A+n7A	LTE Band4	n7	LTE Ant.0	LTE Ant.0	/	/	/
			nr Ant.3	nr Ant.4	/	/	/

5A+n7A	LTE Band5	n7	LTE Ant.1	LTE Ant.0	LTE Ant.1	LTE Ant.0	LTE Ant.1
			nr Ant.0	nr Ant.3	nr Ant.3	nr Ant.4	nr Ant.4
66A+n7A	LTE Band66	n7	LTE Ant.0	LTE Ant.0	/	/	/
			nr Ant.3	nr Ant.4	/	/	/
2A+n66A	LTE Band2	n66	LTE Ant.0	/	/	/	/
			nr Ant.3	/	/	/	/
5A+n66A	LTE Band5	n66	LTE Ant.0	LTE Ant.1	LTE Ant.1	/	/
			nr Ant.3	nr Ant.3	nr Ant.0	/	/
7A+n66A	LTE Band7	n66	LTE Ant.3	/	/	/	/
			nr Ant.0	/	/	/	/
12A+n66A	LTE Band12	n66	LTE Ant.0	LTE Ant.1	LTE Ant.1	/	/
			nr Ant.3	nr Ant.3	nr Ant.0	/	/
4A+n38A	LTE Band4	n38	LTE Ant.0	LTE Ant.0	/	/	/
			nr Ant.3	nr Ant.4	/	/	/
5A+n38A	LTE Band5	n38	LTE Ant.1	LTE Ant.0	LTE Ant.1	LTE Ant.0	LTE Ant.1
			nr Ant.0	nr Ant.3	nr Ant.3	nr Ant.4	nr Ant.4
66A+n38A	LTE Band66	n38	LTE Ant.0	LTE Ant.0	/	/	/
			nr Ant.3	nr Ant.4	/	/	/
4A+n41A	LTE Band4	n41	LTE Ant.0	LTE Ant.0	/	/	/
			nr Ant.3	nr Ant.4	/	/	/
26A+n41A	LTE Band26	n41	LTE Ant.1	LTE Ant.0	LTE Ant.1	LTE Ant.0	LTE Ant.1
			nr Ant.0	nr Ant.3	nr Ant.3	nr Ant.4	nr Ant.4
66A+n41A	LTE Band66	n41	LTE Ant.0	LTE Ant.0	/	/	/
			nr Ant.3	nr Ant.4	/	/	/

Mode	Band	Antenna	WWAN Antenna								
			Full Power	Receiver on		Receiver off					
				Head		Body-worn		Hotspot		Specific	
				WWAN Use Only & WWAN + BT	WWAN + WLAN	WWAN Use Only & WWAN + BT	WWAN + WLAN	WWAN + BT	WWAN + WLAN	WWAN Use Only & WWAN + BT	WWAN + WLAN
Off	State5	State10	State3	State8	State3	State8	State3	State8			
DC_7A+n5A	LTE Band7	Ant.0	24.20	24.20	24.20	22.45	20.70	22.45	20.70	22.45	20.70
	LTE Band7	Ant.3	24.20	18.20	17.45	18.70	17.20	18.70	17.20	18.70	17.20
	n5	Ant.0	24.20	24.20	24.20	24.20	24.20	24.20	24.20	24.20	24.20
	n5	Ant.1	24.20	24.20	24.20	24.20	24.20	24.20	24.20	24.20	24.20
DC_66A+n5A	LTE Band66	Ant.0	24.00	24.00	24.00	20.00	18.50	20.00	18.50	20.00	18.50
	LTE Band66	Ant.3	24.00	17.50	15.75	21.25	20.00	21.25	20.00	21.25	20.00
	n5	Ant.0	24.20	24.20	24.20	24.20	24.20	24.20	24.20	24.20	24.20
	n5	Ant.1	24.20	24.20	24.20	24.20	24.20	24.20	24.20	24.20	24.20
DC_2A_n7A	LTE Band2	Ant.0	23.50	23.50	23.50	20.50	18.25	20.50	18.25	20.50	18.25
	n7	Ant.3	24.20	18.45	17.70	19.20	17.70	19.20	17.70	19.20	17.70

	n7	Ant.4	23.20	23.20	23.20	20.45	18.95	20.45	18.95	20.45	18.95
DC_4A_n7A	LTE Band4	Ant.0	23.50	23.50	23.50	21.50	20.00	21.50	20.00	21.50	20.00
	n7	Ant.3	24.20	18.45	17.70	19.20	17.70	19.20	17.70	19.20	17.70
	n7	Ant.4	23.20	23.20	23.20	20.45	18.95	20.45	18.95	20.45	18.95
DC_5A_n7A	LTE Band5	Ant.0	24.50	24.50	24.50	24.50	23.25	24.50	23.25	24.50	23.25
	LTE Band5	Ant.1	24.50	24.50	23.50	24.50	23.00	24.50	23.00	24.50	23.00
	n7	Ant.0	24.20	24.20	24.20	22.45	20.95	22.45	20.95	22.45	20.95
	n7	Ant.3	24.20	18.45	17.70	19.20	17.70	19.20	17.70	19.20	17.70
	n7	Ant.4	23.20	23.20	23.20	20.45	18.95	20.45	18.95	20.45	18.95
DC_66A_n7A	LTE Band66	Ant.0	24.00	24.00	24.00	20.00	18.50	20.00	18.50	20.00	18.50
	n7	Ant.3	24.20	18.45	17.70	19.20	17.70	19.20	17.70	19.20	17.70
	n7	Ant.4	23.20	23.20	23.20	20.45	18.95	20.45	18.95	20.45	18.95
DC_2A_n66A	LTE Band2	Ant.0	23.50	23.50	23.50	20.50	18.25	20.50	18.25	20.50	18.25
	n66	Ant.3	24.20	18.45	16.70	20.20	18.95	20.20	18.95	20.20	18.95
DC_5A_n66A	LTE Band5	Ant.0	24.50	24.50	24.50	24.50	23.25	24.50	23.25	24.50	23.25
	LTE Band5	Ant.1	24.50	24.50	23.50	24.50	23.00	24.50	23.00	24.50	23.00
	n66	Ant.0	24.20	24.20	24.20	21.45	19.70	21.45	19.70	21.45	19.70
	n66	Ant.3	24.20	18.45	16.70	20.20	18.95	20.20	18.95	20.20	18.95
DC_7A_n66A	LTE Band7	Ant.3	23.00	17.00	16.25	17.50	16.00	17.50	16.00	17.50	16.00
	n66	Ant.0	24.20	24.20	24.20	21.45	19.70	21.45	19.70	21.45	19.70
DC_12A_n66A	LTE Band12	Ant.0	24.50	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	24.50
	n66	Ant.0	24.20	24.20	24.20	21.45	19.70	21.45	19.70	21.45	19.70
	n66	Ant.3	24.20	18.45	16.70	20.20	18.95	20.20	18.95	20.20	18.95
DC_4A_n38A	LTE Band4	Ant.0	23.50	23.50	23.50	21.50	20.00	21.50	20.00	21.50	20.00
	n38	Ant.3	24.20	17.20	16.45	18.70	17.20	18.70	17.20	18.70	17.20
	n38	Ant.4	23.20	23.20	23.20	18.70	17.45	18.70	17.45	18.70	17.45
DC_5A_n38A	LTE Band5	Ant.0	24.50	24.50	24.50	24.50	23.25	24.50	23.25	24.50	23.25
	LTE Band5	Ant.1	24.50	24.50	23.50	24.50	23.00	24.50	23.00	24.50	23.00
	n38	Ant.0	24.20	24.20	24.20	23.45	21.95	23.45	21.95	23.45	21.95
	n38	Ant.3	24.20	17.20	16.45	18.70	17.20	18.70	17.20	18.70	17.20
	n38	Ant.4	23.20	23.20	23.20	18.70	17.45	18.70	17.45	18.70	17.45
DC_66A_n38A	LTE Band66	Ant.0	24.00	24.00	24.00	20.00	18.50	20.00	18.50	20.00	18.50
	n38	Ant.3	24.20	17.20	16.45	18.70	17.20	18.70	17.20	18.70	17.20
	n38	Ant.4	23.20	23.20	23.20	18.70	17.45	18.70	17.45	18.70	17.45
DC_4A_n41A	LTE Band4	Ant.0	23.50	23.50	23.50	21.50	20.00	21.50	20.00	21.50	20.00
	n41	Ant.3	24.20	17.45	16.70	17.95	16.70	17.95	16.70	17.95	16.70
	n41	Ant.4	23.20	23.20	23.20	18.45	16.95	18.45	16.95	18.45	16.95
DC_26A_n41A	LTE Band26	Ant.0	24.00	24.00	24.00	24.00	23.25	24.00	23.25	24.00	23.25
	LTE Band26	Ant.1	24.00	24.00	24.00	24.00	22.75	24.00	22.75	24.00	22.75
	n41	Ant.0	24.20	24.20	24.20	23.20	21.70	23.20	21.70	23.20	21.70
	n41	Ant.3	24.20	17.45	16.70	17.95	16.70	17.95	16.70	17.95	16.70
	n41	Ant.4	23.20	23.20	23.20	18.45	16.95	18.45	16.95	18.45	16.95

DC_66A_n41A	LTE Band66	Ant.0	24.00	24.00	24.00	20.00	18.50	20.00	18.50	20.00	18.50
	n41	Ant.3	24.20	17.45	16.70	17.95	16.70	17.95	16.70	17.95	16.70
	n41	Ant.4	23.20	23.20	23.20	18.45	16.95	18.45	16.95	18.45	16.95

**WLAN Reduced power level table**

Reduced level	Receiver state	Transmitting conditions		Antenna	Position
Level 1	On (head scenario)	2.4G/5G WIFI		Ant.8/Ant.9	Head
Level 2	On (head scenario)	5G WIFI+BT		Ant.8	Head
Level 3	On (head scenario)	2.4G/5G WIFI+WWAN		Ant.8/Ant.9	Head
Level 4	On (head scenario)	5G WIFI+BT+WWAN		Ant.8	Head
Level 5	Off (Body scenario)	2.4G/5G WIFI		Ant.8/Ant.9	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/Ant.9	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																
	Full Power	Receiver on								Receiver off							
		Head				Body-worn				Hotspot				Specific			
		Standalone	Simultaneous transmission			Standalone	Simultaneous transmission			Standalone	Simultaneous transmission			Standalone	Simultaneous transmission		
			5G WIFI+BT	2.4G/5G WIFI+WWAN	5G WIFI+BT+WWAN		5G WIFI+BT	2.4G/5G WIFI+WWAN	5G WIFI+BT+WWAN		5G WIFI+BT	2.4G/5G WIFI+WWAN	5G WIFI+BT+WWAN		5G WIFI+BT	2.4G/5G WIFI+WWAN	5G WIFI+BT+WWAN
Off	Level1	Level2	Level3	Level4	Level5	Level6	Level7	Level8	Level6	Level7	Level8	Level5	Level6	Level7	Level8		
2.4G WLAN 802.11b	16.50	16.50	/	16.00	/	16.50	/	16.50	/	/	16.50	/	16.50	/	16.50	/	
2.4G WLAN 802.11g	19.00	19.00	/	16.00	/	19.00	/	19.00	/	/	19.00	/	19.00	/	19.00	/	
2.4G WLAN 802.11n20	19.00	19.00	/	16.00	/	19.00	/	19.00	/	/	19.00	/	19.00	/	19.00	/	

2.4G WLAN 802.11n40	19.00	19.00	/	16.00	/	19.00	/	19.00	/	/	19.00	/	19.00	/	19.00	/
2.4G WLAN 802.11ac20	19.00	19.00	/	16.00	/	19.00	/	19.00	/	/	19.00	/	19.00	/	19.00	/
2.4G WLAN 802.11ac40	19.00	19.00	/	16.00	/	19.00	/	19.00	/	/	19.00	/	19.00	/	19.00	/
5.2G WLAN 802.11a	18.50	14.00	14.00	10.50	10.50	16.00	16.00	13.00	13.00	16.00	13.00	13.00	16.00	16.00	13.00	13.00
5.2G WLAN 802.11n20	19.50	14.00	14.00	10.50	10.50	16.00	16.00	13.00	13.00	16.00	13.00	13.00	16.00	16.00	13.00	13.00
5.2G WLAN 802.11n40	19.50	14.00	14.00	10.50	10.50	16.00	16.00	13.00	13.00	16.00	13.00	13.00	16.00	16.00	13.00	13.00
5.2G WLAN 802.11ac20	19.50	14.00	14.00	10.50	10.50	16.00	16.00	13.00	13.00	16.00	13.00	13.00	16.00	16.00	13.00	13.00
5.2G WLAN 802.11ac40	17.50	14.00	14.00	10.50	10.50	16.00	16.00	13.00	13.00	16.00	13.00	13.00	16.00	16.00	13.00	13.00
5.2G WLAN 802.11ac80	14.50	14.00	14.00	10.50	10.50	14.50	14.50	13.00	13.00	14.50	13.00	13.00	14.50	14.50	13.00	13.00
5.3G WLAN 802.11a	19.50	14.00	14.00	10.50	10.50	16.00	16.00	13.00	13.00	16.00	13.00	13.00	16.00	16.00	13.00	13.00
5.3G WLAN 802.11n20	19.50	14.00	14.00	10.50	10.50	16.00	16.00	13.00	13.00	16.00	13.00	13.00	16.00	16.00	13.00	13.00
5.3G WLAN 802.11n40	19.50	14.00	14.00	10.50	10.50	16.00	16.00	13.00	13.00	16.00	13.00	13.00	16.00	16.00	13.00	13.00
5.3G WLAN 802.11ac20	19.50	14.00	14.00	10.50	10.50	16.00	16.00	13.00	13.00	16.00	13.00	13.00	16.00	16.00	13.00	13.00
5.3G WLAN 802.11ac40	19.50	14.00	14.00	10.50	10.50	16.00	16.00	13.00	13.00	16.00	13.00	13.00	16.00	16.00	13.00	13.00
5.3G WLAN 802.11ac80	14.00	14.00	14.00	10.50	10.50	14.00	14.00	13.00	13.00	14.00	13.00	13.00	14.00	14.00	13.00	13.00
5.6G WLAN 802.11a	19.50	13.00	13.00	10.00	10.00	16.00	16.00	13.00	13.00	16.00	13.00	13.00	16.00	16.00	13.00	13.00
5.6G WLAN 802.11n20	19.50	13.00	13.00	10.00	10.00	16.00	16.00	13.00	13.00	16.00	13.00	13.00	16.00	16.00	13.00	13.00
5.6G WLAN 802.11n40	19.50	13.00	13.00	10.00	10.00	16.00	16.00	13.00	13.00	16.00	13.00	13.00	16.00	16.00	13.00	13.00
5.6G WLAN 802.11ac20	19.50	13.00	13.00	10.00	10.00	16.00	16.00	13.00	13.00	16.00	13.00	13.00	16.00	16.00	13.00	13.00
5.6G WLAN 802.11ac40	19.50	13.00	13.00	10.00	10.00	16.00	16.00	13.00	13.00	16.00	13.00	13.00	16.00	16.00	13.00	13.00
5.6G WLAN 802.11ac80	15.50	13.00	13.00	10.00	10.00	16.00	16.00	13.00	13.00	16.00	13.00	13.00	16.00	16.00	13.00	13.00
5.8G WLAN 802.11a	19.50	13.50	13.50	10.50	10.50	17.00	17.00	14.00	14.00	17.00	14.00	14.00	17.00	17.00	14.00	14.00

5.8G WLAN 802.11n20	19.50	13.50	13.50	10.50	10.50	17.00	17.00	14.00	14.00	17.00	14.00	14.00	17.00	17.00	14.00	14.00
5.8G WLAN 802.11n40	19.50	13.50	13.50	10.50	10.50	17.00	17.00	14.00	14.00	17.00	14.00	14.00	17.00	17.00	14.00	14.00
5.8G WLAN 802.11ac20	19.50	13.50	13.50	10.50	10.50	17.00	17.00	14.00	14.00	17.00	14.00	14.00	17.00	17.00	14.00	14.00
5.8G WLAN 802.11ac40	19.50	13.50	13.50	10.50	10.50	17.00	17.00	14.00	14.00	17.00	14.00	14.00	17.00	17.00	14.00	14.00
5.8G WLAN 802.11ac80	19.50	13.50	13.50	10.50	10.50	17.00	17.00	14.00	14.00	17.00	14.00	14.00	17.00	17.00	14.00	14.00
Bluetooth	17.00	17.00	17.00	/	17.00	17.00	17.00	/	17.00	17.00	/	17.00	17.00	17.00	/	17.00

## 9 UL duty cycle detection mechanism specification (DC SAR)

### 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 cycle: Uplink duty cycle.

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

$P_{max}$ : Max power level.

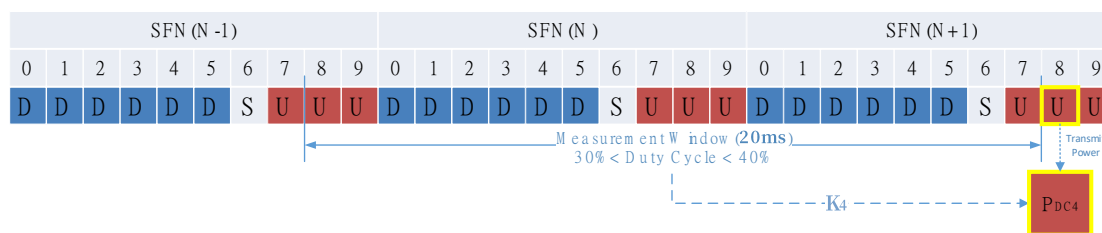
$P_{SAR}$ : A pre-defined value which is used to derive the  $P_{cmax}$  to ensure time-average power level to associates with SAR compliance

$P_{offset}$ : 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 caculate 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 caculate 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)**

(1#) UL duty cycle	(2#) Max UL duty cycle	(3#) Max UL duty cycle factor	(4#) $P_{offset}$	(7#) $P_{cmax}$ (dBm)	(8#) $P_{cmax}$ frame-average(dBm)
$0\% \leq K1 \leq 10\%$	10%	-10.00	10.00	24.20	14.20
$10\% < K2 \leq 20\%$	20%	-6.99	6.50	23.20	16.21
$20\% < K3 \leq 30\%$	30%	-5.23	5.00	21.70	16.47
$30\% < K4 \leq 40\%$	40%	-3.98	3.50	20.20	16.22
$40\% < K5 \leq 50\%$	50%	-3.01	3.00	19.70	16.69
$50\% < K6 \leq 60\%$	60%	-2.22	2.00	18.70	16.48
$60\% < K7 \leq 70\%$	70%	-1.55	1.50	18.20	16.65
$70\% < K8 \leq 80\%$	80%	-0.97	0.50	17.20	16.23
$80\% < K9 \leq 100\%$	100%	0.00	0.00	16.70	16.70
(5#) $P_{max} = 24.20$ (dBm), (6#) $P_{SAR} = 7.50$ (dB)					

Note 4:

(1#)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.

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

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

(4#) $P_{offset}$  = 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.

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

(6#) $P_{SAR}$ : 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  $P_{SAR} = 4\text{dB}$ .

(7#) $P_{cmax}$ : 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.

(8#)  $P_{cmax}$  frame-average:  $P_{cmax}$  frame-average = (7#) $P_{cmax}$  + (3#)Max UL duty cycle factor, SAR test reduction for 9 sets

(1#)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>	P <sub>cm</sub> (dBm)	P <sub>cm</sub> frame-average (dBm)
0% < K1 ≤ 20%	11.7%	-9.32	5.00	24.00	14.68
20% < K2 ≤ 30%	23.3%	-6.33	3.50	24.00	17.67
30% < K3 ≤ 40%	31.7%	-4.99	2.00	23.50	18.51
40% < K4 ≤ 50%	43.3%	-3.64	1.50	23.00	19.36
50% < K5 ≤ 60%	53.3%	-2.73	0.50	22.00	19.27
60% < K6 ≤ 63.3%	63.3%	-1.99	0.00	21.50	19.51

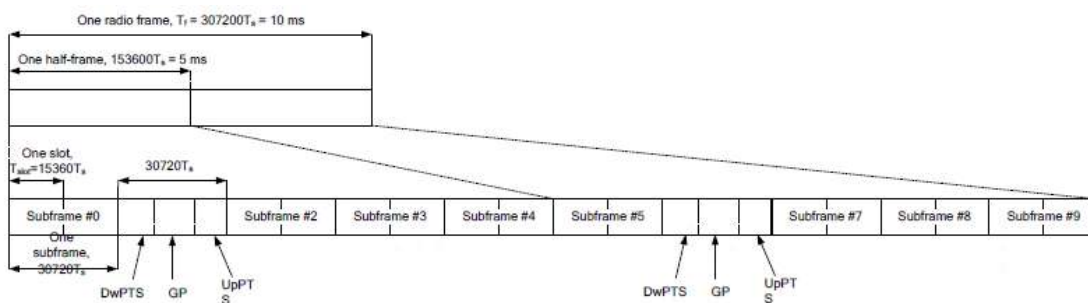
P<sub>max</sub> = 24.00 (dBm), P<sub>SAR</sub> = 2.50 (dB)

**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.

**Figure 4.2-1: Frame structure type 2**



**Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS)**

Special subframe configuration n	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	$6592 \cdot T_s$	$(1+X) \cdot 2192 \cdot T_s$	$(1+X) \cdot 2560 \cdot T_s$	$7680 \cdot T_s$	$(1+X) \cdot 2192 \cdot T_s$	$(1+X) \cdot 2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$			$7680 \cdot T_s$		
5	$6592 \cdot T_s$	$(2+X) \cdot 2192 \cdot T_s$	$(2+X) \cdot 2560 \cdot T_s$	$20480 \cdot T_s$	$(2+X) \cdot 2192 \cdot T_s$	$(2+X) \cdot 2560 \cdot T_s$
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-		
9	$13168 \cdot T_s$			-		
10	$13168 \cdot T_s$	$13152 \cdot T_s$	$12800 \cdot T_s$	-	-	-

**Table 4.2-2: Uplink-downlink configurations**

Configuration	Periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

According to Figure 4.2-1, one radio frame is configured by 10 subframes, which consist of Uplink-subframe, Downlink-subframe and Special subframe. For TDD-LTE, the Duty Cycle should be calculated on Uplink-subframes and Special subframes, due to Special subframe containing both Uplink transmissions. So for one radio frame, Duty Cycle can be calculated with formula as below. The count of Uplink subframes are according to Table 4.2-2:

$$\text{Duty cycle} = (30720T_s \cdot \text{Ups} + \text{Uplink Component} \cdot \text{Specials}) / (307200T_s)$$

About the uplink component of Special subframes, we can figure out by Table 4.2-1:

$$\text{Uplink Component} = \text{UpPTS}$$

In conclusion, for the TDD LTE Band, Duty Cycle can be calculated with formula as below all these sets are ok when we test, or we can set as below.

$$\text{Duty cycle} = [(30720T_s \cdot \text{Ups}) + \text{UpPTS} \cdot \text{Specials}] / (307200T_s)$$

And we can get different Duty cycles under different configurations:

Uplink-Downlink configuration	Subframe number			Configuration of special subframe							
				Normal cyclice prefix in downlink				Extended cyclice prefix in downlink			
	Normal cyclice prefix in uplink		Extended cyclice prefix in uplink		Normal cyclice prefix in uplink		Extended cyclice prefix in uplink				
	D	S	U	configuration 0~4	configuration 5~9	configuration 0~4	configuration 5~9	configuration 0~3	configuration 4~7	configuration 0~3	configuration 4~7
0	2	2	6	61.43%	62.85%	61.67%	<b>63.33%</b>	61.43%	62.85%	61.67%	<b>63.33%</b>
1	4	2	4	41.43%	42.85%	41.67%	43.33%	41.43%	42.85%	41.67%	43.33%
2	6	2	2	21.43%	22.85%	21.67%	23.33%	21.43%	22.85%	21.67%	23.33%
3	6	1	3	30.71%	31.43%	30.83%	31.67%	30.71%	31.43%	30.83%	31.67%
4	7	1	2	20.71%	21.43%	20.83%	21.67%	20.71%	21.43%	20.83%	21.67%
5	8	1	1	10.71%	11.43%	10.83%	11.67%	10.71%	11.43%	10.83%	11.67%
6	3	2	5	51.43%	52.85%	51.67%	53.33%	51.43%	52.85%	51.67%	53.33%

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 SAR evaluation uses the highest P<sub>cm</sub> frame-average configuration.

- (1) 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%.
- (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 P<sub>cm</sub> frame-average configuration, and UL duty cycle =63.3%.

### 9.4 Conducted Power

Please refer the document “BL-SZ2491182-AD Power List.pdf”

## 10 TEST EXCLUSION CONSIDERATION

For antenna location and support bands please refer the document "BL-SZ2491182-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.3	<25	<25	>25	<25	<25	>25
Ant.4	<25	<25	>25	<25	<25	>25
Ant.8	<25	<25	<25	>25	<25	>25
Ant.9	<25	<25	<25	>25	<25	>25

Note: 1.Per KDB 941225 D06,When the overall length and width of a device is > 9 cm \*5 cm, a test separation distance of 10 mm is required for hotspot mode SAR measurements and hotspot mode SAR is measured for all edges and surfaces of the device with a transmitting antenna located within 25 mm from that surface or edge.

# 11 TEST RESULT

## 11.1 GSM 850

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>													
Ant.1	State5&10	DATA 2slots	Left Cheek	0	251	848.8	0.01	0.319	29.19	31.00	1.517	<b>0.484</b>	1#
	State5&10		Left Tilt	0	251	848.8	0.06	0.048	29.19	31.00	1.517	0.073	/
	State5&10		Right Cheek	0	251	848.8	0.03	0.213	29.19	31.00	1.517	0.323	/
	State5&10		Right Tilt	0	251	848.8	0.10	0.034	29.19	31.00	1.517	0.052	/
Ant.0	State5&10	DATA 2slots	Left Cheek	0	251	848.8	0.04	0.146	29.30	31.00	1.479	0.216	/
	State5&10		Left Tilt	0	251	848.8	-0.01	0.081	29.30	31.00	1.479	0.120	/
	State5&10		Right Cheek	0	251	848.8	0.08	0.093	29.30	31.00	1.479	0.138	/
	State5&10		Right Tilt	0	251	848.8	-0.04	0.041	29.30	31.00	1.479	0.061	/
<b>Body-worn</b>													
Ant.1	State3&8	DATA 2slots	Front Side	15	251	848.8	-0.02	0.086	29.19	31.00	1.517	0.130	/
	State3&8		Back Side	15	251	848.8	0.11	0.116	29.19	31.00	1.517	0.176	/
Ant.0	State3&8	DATA 2slots	Front Side	15	251	848.8	-0.10	0.105	29.30	31.00	1.479	0.155	/
	State3&8		Back Side	15	251	848.8	-0.03	0.121	29.30	31.00	1.479	<b>0.179</b>	2#
<b>Hotspot</b>													
Ant.1	State3&8	DATA 2slots	Front Side	10	251	848.8	0.07	0.124	29.19	31.00	1.517	0.188	/
	State3&8		Back Side	10	251	848.8	-0.06	0.159	29.19	31.00	1.517	0.241	/
	State3&8		Right Edge	10	251	848.8	0.04	0.093	29.19	31.00	1.517	0.141	/
Ant.0	State3&8	DATA 2slots	Front Side	10	251	848.8	-0.03	0.112	29.30	31.00	1.479	0.166	/
	State3&8		Back Side	10	251	848.8	-0.01	0.164	29.30	31.00	1.479	<b>0.243</b>	3#
	State3&8		Left Edge	10	251	848.8	-0.02	0.056	29.30	31.00	1.479	0.083	/
	State3&8		Right Edge	10	251	848.8	0.06	0.097	29.30	31.00	1.479	0.143	/
	State3&8		Bottom Edge	10	251	848.8	0.10	0.162	29.30	31.00	1.479	0.240	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

### 11.2 GSM 1900

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>													
Ant.3	State5	DATA 3slots	Left Cheek	0	661	1880	0.07	0.275	23.42	25.00	1.439	0.396	/
	State5		Left Tilt	0	661	1880	-0.09	0.313	23.42	25.00	1.439	0.450	/
	State5		Right Cheek	0	661	1880	0.04	0.634	23.42	25.00	1.439	0.912	/
	State5		Right Tilt	0	661	1880	-0.10	0.721	23.42	25.00	1.439	1.038	/
	State5		Right Cheek	0	512	1850.2	0.02	0.645	23.41	25.00	1.442	0.930	/
	State5		Right Cheek	0	810	1909.8	0.02	0.546	23.32	25.00	1.472	0.804	/
	State5		Right Tilt	0	512	1850.2	0.01	0.745	23.41	25.00	1.442	<b>1.074</b>	<b>4#</b>
	State5		Right Tilt	0	810	1909.8	0.08	0.628	23.32	25.00	1.472	0.924	/
Ant.3	State10	DATA 3slots	Left Cheek	0	512	1850.2	0.05	0.216	22.44	24.00	1.432	0.309	/
	State10		Left Tilt	0	512	1850.2	0.01	0.248	22.44	24.00	1.432	0.355	/
	State10		Right Cheek	0	512	1850.2	0.06	0.502	22.44	24.00	1.432	0.719	/
	State10		Right Tilt	0	512	1850.2	-0.03	0.578	22.44	24.00	1.432	0.828	/
	State10		Right Tilt	0	661	1880	0.11	0.529	22.39	24.00	1.449	0.767	/
	State10		Right Tilt	0	810	1909.8	0.06	0.503	22.37	24.00	1.455	0.732	/
Ant.0	State5&10	DATA 3slots	Left Cheek	0	810	1909.8	0.04	0.038	25.20	26.50	1.349	0.051	/
	State5&10		Left Tilt	0	810	1909.8	0.10	0.021	25.20	26.50	1.349	0.028	/
	State5&10		Right Cheek	0	810	1909.8	0.07	0.034	25.20	26.50	1.349	0.046	/
	State5&10		Right Tilt	0	810	1909.8	-0.05	0.019	25.20	26.50	1.349	0.026	/
<b>Body-worn</b>													
Ant.3	State3&8	DATA	Front Side	15	512	1850.2	0.02	0.118	24.91	26.50	1.442	<b>0.170</b>	<b>5#</b>
	State3&8	3slots	Back Side	15	512	1850.2	0.05	0.098	24.91	26.50	1.442	0.141	/
Ant.0	State3&8	DATA	Front Side	15	810	1909.8	0.07	0.028	25.20	26.50	1.349	0.038	/
	State3&8	3slots	Back Side	15	810	1909.8	-0.03	0.089	25.20	26.50	1.349	0.120	/
<b>Hotspot</b>													
Ant.3	State3&8	DATA 3slots	Front Side	10	512	1850.2	-0.09	0.196	24.91	26.50	1.442	0.283	/
	State3&8		Back Side	10	512	1850.2	-0.09	0.218	24.91	26.50	1.442	0.314	/
	State3&8		Right Edge	10	512	1850.2	0.11	0.093	24.91	26.50	1.442	0.134	/
	State3&8		Top Edge	10	512	1850.2	0.02	0.339	24.91	26.50	1.442	<b>0.489</b>	<b>6#</b>
Ant.0	State3&8	DATA 3slots	Front Side	10	810	1909.8	0.03	0.060	25.20	26.50	1.349	0.081	/
	State3&8		Back Side	10	810	1909.8	-0.06	0.174	25.20	26.50	1.349	0.235	/
	State3&8		Left Edge	10	810	1909.8	-0.02	0.003	25.20	26.50	1.349	0.004	/
	State3&8		Right Edge	10	810	1909.8	0.06	0.003	25.20	26.50	1.349	0.004	/
	State3&8		Bottom Edge	10	810	1909.8	0.08	0.220	25.20	26.50	1.349	0.297	/
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.3	State5	RMC	Left Cheek	0	9538	1907.6	0.01	0.210	18.20	19.00	1.202	0.252	/
	State5		Left Tilt	0	9538	1907.6	-0.05	0.245	18.20	19.00	1.202	0.294	/
	State5		Right Cheek	0	9538	1907.6	0.01	0.616	18.20	19.00	1.202	0.740	/
	State5		Right Tilt	0	9538	1907.6	-0.01	0.721	18.20	19.00	1.202	<b>0.867</b>	<b>7#</b>
	State5		Right Tilt	0	9262	1852.4	-0.10	0.663	18.11	19.00	1.227	0.814	/
	State5		Right Tilt	0	9400	1880	0.10	0.697	18.14	19.00	1.219	0.850	/
Ant.3	State10	RMC	Left Cheek	0	9262	1852.4	0.11	0.174	17.35	18.25	1.230	0.214	/
	State10		Left Tilt	0	9262	1852.4	-0.03	0.200	17.35	18.25	1.230	0.246	/
	State10		Right Cheek	0	9262	1852.4	-0.05	0.503	17.35	18.25	1.230	0.619	/
	State10		Right Tilt	0	9262	1852.4	-0.04	0.591	17.35	18.25	1.230	0.727	/
Ant.0	State5&10	RMC	Left Cheek	0	9538	1907.6	0.09	0.051	23.39	24.00	1.151	0.059	/
	State5&10		Left Tilt	0	9538	1907.6	-0.09	0.032	23.39	24.00	1.151	0.037	/
	State5&10		Right Cheek	0	9538	1907.6	0.08	0.045	23.39	24.00	1.151	0.052	/
	State5&10		Right Tilt	0	9538	1907.6	-0.04	0.028	23.39	24.00	1.151	0.032	/
<b>Body-worn</b>													
Ant.3	State3	RMC	Front Side	15	9538	1907.6	0.03	0.131	20.43	21.25	1.208	<b>0.158</b>	<b>8#</b>
	State3		Back Side	15	9538	1907.6	0.09	0.124	20.43	21.25	1.208	0.150	/
Ant.3	State8	RMC	Front Side	15	9538	1907.6	-0.05	0.118	19.93	20.75	1.208	0.143	/
	State8		Back Side	15	9538	1907.6	-0.06	0.112	19.93	20.75	1.208	0.135	/
Ant.0	State3	RMC	Front Side	15	9262	1852.4	0.11	0.038	21.88	22.25	1.089	0.041	/
	State3		Back Side	15	9262	1852.4	0.08	0.094	21.88	22.25	1.089	0.102	/
Ant.0	State8	RMC	Front Side	15	9538	1907.6	-0.04	0.030	21.18	21.50	1.076	0.032	/
	State8		Back Side	15	9538	1907.6	0.02	0.077	21.18	21.50	1.076	0.083	/
<b>Hotspot</b>													
Ant.3	State3	RMC	Front Side	10	9538	1907.6	-0.02	0.247	20.43	21.25	1.208	0.298	/
	State3		Back Side	10	9538	1907.6	0.08	0.227	20.43	21.25	1.208	0.274	/
	State3		Right Edge	10	9538	1907.6	0.01	0.105	20.43	21.25	1.208	0.127	/
	State3		Top Edge	10	9538	1907.6	0.00	0.415	20.43	21.25	1.208	<b>0.501</b>	<b>9#</b>
Ant.3	State8	RMC	Front Side	10	9538	1907.6	-0.06	0.224	19.93	20.75	1.208	0.271	/
	State8		Back Side	10	9538	1907.6	-0.09	0.208	19.93	20.75	1.208	0.251	/
	State8		Right Edge	10	9538	1907.6	0.06	0.092	19.93	20.75	1.208	0.111	/
	State8		Top Edge	10	9538	1907.6	0.08	0.374	19.93	20.75	1.208	0.452	/
Ant.0	State3	RMC	Front Side	10	9262	1852.4	0.09	0.084	21.88	22.25	1.089	0.091	/
	State3		Back Side	10	9262	1852.4	0.10	0.259	21.88	22.25	1.089	0.282	/
	State3		Left Edge	10	9262	1852.4	0.00	0.008	21.88	22.25	1.089	0.009	/
	State3		Right Edge	10	9262	1852.4	-0.02	0.009	21.88	22.25	1.089	0.010	/



	State3		Bottom Edge	10	9262	1852.4	0.01	0.312	21.88	22.25	1.089	0.340	/
Ant.0	State8	RMC	Front Side	10	9538	1907.6	-0.08	0.072	21.18	21.50	1.076	0.077	/
	State8		Back Side	10	9538	1907.6	0.03	0.210	21.18	21.50	1.076	0.226	/
	State8		Left Edge	10	9538	1907.6	0.11	0.007	21.18	21.50	1.076	0.008	/
	State8		Right Edge	10	9538	1907.6	0.02	0.008	21.18	21.50	1.076	0.009	/
	State8		Bottom Edge	10	9538	1907.6	0.10	0.266	21.18	21.50	1.076	0.286	/
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.3	State5	RMC	Left Cheek	0	1312	1712.4	-0.01	0.395	18.58	19.25	1.167	0.461	/
	State5		Left Tilt	0	1312	1712.4	0.08	0.435	18.58	19.25	1.167	0.508	/
	State5		Right Cheek	0	1312	1712.4	0.00	0.639	18.58	19.25	1.167	0.746	/
	State5		Right Tilt	0	1312	1712.4	-0.01	0.696	18.58	19.25	1.167	<b>0.812</b>	10#
	State5		Right Tilt	0	1412	1732.4	-0.04	0.653	18.56	19.25	1.172	0.765	/
	State5		Right Tilt	0	1513	1752.6	0.00	0.638	18.51	19.25	1.186	0.757	/
Ant.3	State10	RMC	Left Cheek	0	1412	1732.4	-0.01	0.332	17.82	18.50	1.169	0.388	/
	State10		Left Tilt	0	1412	1732.4	-0.05	0.368	17.82	18.50	1.169	0.430	/
	State10		Right Cheek	0	1412	1732.4	-0.02	0.535	17.82	18.50	1.169	0.625	/
	State10		Right Tilt	0	1412	1732.4	-0.02	0.583	17.82	18.50	1.169	0.682	/
Ant.0	State5&10	RMC	Left Cheek	0	1513	1752.6	0.05	0.105	23.38	24.00	1.153	0.121	/
	State5&10		Left Tilt	0	1513	1752.6	0.04	0.058	23.38	24.00	1.153	0.067	/
	State5&10		Right Cheek	0	1513	1752.6	0.06	0.089	23.38	24.00	1.153	0.103	/
	State5&10		Right Tilt	0	1513	1752.6	-0.04	0.047	23.38	24.00	1.153	0.054	/
<b>Body-worn</b>													
Ant.3	State3	RMC	Front Side	15	1312	1712.4	-0.08	0.128	20.87	21.50	1.156	0.148	/
	State3		Back Side	15	1312	1712.4	0.06	0.154	20.87	21.50	1.156	0.178	/
Ant.3	State8	RMC	Front Side	15	1312	1712.4	-0.04	0.115	20.46	21.00	1.132	0.130	/
	State8		Back Side	15	1312	1712.4	-0.04	0.139	20.46	21.00	1.132	0.157	/
Ant.0	State3	RMC	Front Side	15	1513	1752.6	-0.09	0.170	22.16	22.75	1.146	0.195	/
	State3		Back Side	15	1513	1752.6	0.01	0.296	22.16	22.75	1.146	<b>0.339</b>	11#
Ant.0	State8	RMC	Front Side	15	1312	1712.4	0.08	0.141	21.21	22.00	1.199	0.169	/
	State8		Back Side	15	1312	1712.4	0.00	0.247	21.21	22.00	1.199	0.296	/
<b>Hotspot</b>													
Ant.3	State3	RMC	Front Side	10	1312	1712.4	0.10	0.272	20.87	21.50	1.156	0.314	/
	State3		Back Side	10	1312	1712.4	0.06	0.301	20.87	21.50	1.156	0.348	/
	State3		Right Edge	10	1312	1712.4	0.11	0.092	20.87	21.50	1.156	0.106	/
	State3		Top Edge	10	1312	1712.4	0.01	0.391	20.87	21.50	1.156	0.452	/
Ant.3	State8	RMC	Front Side	10	1312	1712.4	0.04	0.244	20.46	21.00	1.132	0.276	/
	State8		Back Side	10	1312	1712.4	-0.05	0.271	20.46	21.00	1.132	0.307	/
	State8		Right Edge	10	1312	1712.4	0.09	0.082	20.46	21.00	1.132	0.093	/
	State8		Top Edge	10	1312	1712.4	-0.01	0.363	20.46	21.00	1.132	0.411	/
Ant.0	State3	RMC	Front Side	10	1513	1752.6	-0.10	0.277	22.16	22.75	1.146	0.317	/
	State3		Back Side	10	1513	1752.6	-0.05	0.516	22.16	22.75	1.146	0.591	/
	State3		Left Edge	10	1513	1752.6	0.08	0.102	22.16	22.75	1.146	0.117	/
	State3		Right Edge	10	1513	1752.6	0.01	0.043	22.16	22.75	1.146	0.049	/

	State3		Bottom Edge	10	1513	1752.6	0.01	0.572	22.16	22.75	1.146	<b>0.656</b>	12#
Ant.0	State8	RMC	Front Side	10	1312	1712.4	-0.03	0.231	21.21	22.00	1.199	0.277	/
	State8		Back Side	10	1312	1712.4	-0.07	0.435	21.21	22.00	1.199	0.522	/
	State8		Left Edge	10	1312	1712.4	-0.06	0.086	21.21	22.00	1.199	0.103	/
	State8		Right Edge	10	1312	1712.4	-0.02	0.033	21.21	22.00	1.199	0.040	/
	State8		Bottom Edge	10	1312	1712.4	-0.01	0.481	21.21	22.00	1.199	0.577	/

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	State5	RMC	Left Cheek	0	4233	846.6	-0.04	0.736	23.47	24.50	1.268	<b>0.933</b>	13#
	State5		Left Tilt	0	4233	846.6	0.11	0.069	23.47	24.50	1.268	0.087	/
	State5		Right Cheek	0	4233	846.6	0.02	0.413	23.47	24.50	1.268	0.524	/
	State5		Right Tilt	0	4233	846.6	-0.07	0.056	23.47	24.50	1.268	0.071	/
	State5		Left Cheek	0	4132	826.4	0.09	0.635	23.45	24.50	1.274	0.809	/
	State5		Left Cheek	0	4182	836.4	-0.09	0.675	23.41	24.50	1.285	0.867	/
Ant.1	State10	RMC	Left Cheek	0	4233	846.6	-0.06	0.602	23.03	24.00	1.250	0.753	/
	State10		Left Tilt	0	4233	846.6	-0.10	0.059	23.03	24.00	1.250	0.074	/
	State10		Right Cheek	0	4233	846.6	0.02	0.365	23.03	24.00	1.250	0.456	/
	State10		Right Tilt	0	4233	846.6	0.07	0.050	23.03	24.00	1.250	0.063	/
Ant.0	State5&10	RMC	Left Cheek	0	4233	846.6	0.10	0.182	23.32	24.50	1.312	0.239	/
	State5&10		Left Tilt	0	4233	846.6	0.07	0.101	23.32	24.50	1.312	0.133	/
	State5&10		Right Cheek	0	4233	846.6	0.03	0.161	23.32	24.50	1.312	0.211	/
	State5&10		Right Tilt	0	4233	846.6	-0.06	0.073	23.32	24.50	1.312	0.096	/
<b>Body-worn</b>													
Ant.1	State3&8	RMC	Front Side	15	4233	846.6	0.09	0.126	23.47	24.50	1.268	0.160	/
	State3&8		Back Side	15	4233	846.6	0.05	0.142	23.47	24.50	1.268	0.180	/
Ant.0	State3&8	RMC	Front Side	15	4233	846.6	-0.09	0.152	23.32	24.50	1.312	0.199	/
	State3&8		Back Side	15	4233	846.6	0.01	0.176	23.32	24.50	1.312	<b>0.231</b>	14#
<b>Hotspot</b>													
Ant.1	State3&8	RMC	Front Side	10	4233	846.6	0.06	0.194	23.47	24.50	1.268	0.246	/
	State3&8		Back Side	10	4233	846.6	-0.01	0.298	23.47	24.50	1.268	<b>0.378</b>	15#
	State3&8		Right Edge	10	4233	846.6	-0.08	0.165	23.47	24.50	1.268	0.209	/
Ant.0	State3&8	RMC	Front Side	10	4233	846.6	-0.07	0.183	23.32	24.50	1.312	0.240	/
	State3&8		Back Side	10	4233	846.6	-0.02	0.282	23.32	24.50	1.312	0.370	/
	State3&8		Left Edge	10	4233	846.6	-0.03	0.108	23.32	24.50	1.312	0.142	/
	State3&8		Right Edge	10	4233	846.6	0.08	0.160	23.32	24.50	1.312	0.210	/
	State3&8		Bottom Edge	10	4233	846.6	-0.06	0.269	23.32	24.50	1.312	0.353	/
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.3	State5	QPSK	Left Cheek	0	18900	1900	1	High	0.11	0.336	18.07	19.00	1.239	0.416	/
	State5		Left Tilt	0	18900	1900	1	High	-0.08	0.390	18.07	19.00	1.239	0.483	/
	State5		Right Cheek	0	18900	1900	1	High	0.09	0.564	18.07	19.00	1.239	0.699	/
	State5		Right Tilt	0	18900	1900	1	High	-0.05	0.662	18.07	19.00	1.239	0.820	/
	State5		Left Cheek	0	18900	1900	50	High	0.11	0.341	18.00	19.00	1.259	0.429	/
	State5		Left Tilt	0	18900	1900	50	High	-0.10	0.390	18.00	19.00	1.259	0.491	/
	State5		Right Cheek	0	18900	1900	50	High	-0.03	0.506	18.00	19.00	1.259	0.637	/
	State5		Right Tilt	0	18900	1900	50	High	-0.09	0.636	18.00	19.00	1.259	0.801	/
	State5		Right Tilt	0	18700	1880	1	High	-0.10	0.591	17.98	19.00	1.265	0.748	/
	State5		Right Tilt	0	19100	1900	1	High	0.03	0.664	17.96	19.00	1.271	<b>0.844</b>	16#
	State5		Right Tilt	0	18700	1880	50	High	-0.07	0.525	17.91	19.00	1.285	0.675	/
	State5		Right Tilt	0	19100	1900	50	Mid	-0.01	0.559	17.96	19.00	1.271	0.710	/
	State5		Right Tilt	0	18900	1900	100	Low	0.10	0.584	17.96	19.00	1.271	0.742	/
Ant.3	State10	QPSK	Left Cheek	0	18900	1900	1	High	0.10	0.281	17.59	18.25	1.164	0.327	/
	State10		Left Tilt	0	18900	1900	1	High	-0.01	0.329	17.59	18.25	1.164	0.383	/
	State10		Right Cheek	0	18900	1900	1	High	0.09	0.476	17.59	18.25	1.164	0.554	/
	State10		Right Tilt	0	18900	1900	1	High	0.02	0.553	17.59	18.25	1.164	0.644	/
	State10		Left Cheek	0	18700	1880	50	High	-0.03	0.285	18.00	18.25	1.059	0.302	/
	State10		Left Tilt	0	18700	1880	50	High	0.00	0.329	18.00	18.25	1.059	0.348	/
	State10		Right Cheek	0	18700	1880	50	High	0.07	0.421	18.00	18.25	1.059	0.446	/
	State10		Right Tilt	0	18700	1880	50	High	-0.07	0.478	18.00	18.25	1.059	0.506	/
Ant.0	State5&10	QPSK	Left Cheek	0	18700	1880	1	High	0.01	0.107	22.67	23.50	1.211	0.130	/
	State5&10		Left Tilt	0	18700	1880	1	High	-0.01	0.063	22.67	23.50	1.211	0.076	/
	State5&10		Right Cheek	0	18700	1880	1	High	0.01	0.093	22.67	23.50	1.211	0.113	/
	State5&10		Right Tilt	0	18700	1880	1	High	-0.04	0.067	22.67	23.50	1.211	0.081	/
	State5&10		Left Cheek	0	18700	1880	50	High	0.02	0.084	22.15	22.50	1.084	0.091	/
	State5&10		Left Tilt	0	18700	1880	50	High	0.03	0.051	22.15	22.50	1.084	0.055	/
	State5&10		Right Cheek	0	18700	1880	50	High	0.00	0.073	22.15	22.50	1.084	0.079	/
	State5&10		Right Tilt	0	18700	1880	50	High	0.10	0.052	22.15	22.50	1.084	0.056	/
<b>Body-worn</b>															
Ant.3	State3	QPSK	Front Side	15	19100	1900	1	Mid	-0.02	0.119	20.16	21.00	1.213	<b>0.144</b>	17#
	State3		Back Side	15	19100	1900	1	Mid	0.07	0.105	20.16	21.00	1.213	0.127	/
	State3		Front Side	15	18900	1900	50	Low	-0.01	0.103	20.57	21.00	1.104	0.114	/
	State3		Back Side	15	18900	1900	50	Low	0.02	0.094	20.57	21.00	1.104	0.104	/
Ant.3	State8	QPSK	Front Side	15	18700	1880	1	High	0.05	0.108	19.91	20.75	1.213	0.131	/
	State8		Back Side	15	18700	1880	1	High	0.09	0.010	19.91	20.75	1.213	0.012	/

	State8		Front Side	15	19100	1900	50	High	0.08	0.096	20.33	20.75	1.102	0.106	/
	State8		Back Side	15	19100	1900	50	High	-0.10	0.089	20.33	20.75	1.102	0.098	/
Ant.0	State3	QPSK	Front Side	15	19100	1900	1	High	-0.07	0.038	21.41	22.25	1.213	0.046	/
	State3		Back Side	15	19100	1900	1	High	0.01	0.091	21.41	22.25	1.213	0.110	/
	State3		Front Side	15	18700	1880	50	Low	-0.10	0.040	21.98	22.25	1.064	0.043	/
	State3		Back Side	15	18700	1880	50	High	-0.06	0.093	21.98	22.25	1.064	0.099	/
Ant.0	State8	QPSK	Front Side	15	18900	1900	1	High	-0.02	0.021	20.42	21.25	1.211	0.025	/
	State8		Back Side	15	18900	1900	1	High	0.09	0.049	20.42	21.25	1.211	0.059	/
	State8		Front Side	15	18700	1880	50	High	-0.05	0.020	20.91	21.25	1.081	0.022	/
	State8		Back Side	15	18700	1880	50	High	0.02	0.043	20.91	21.25	1.081	0.046	/
<b>Hotspot</b>															
Ant.3	State3	QPSK	Front Side	10	19100	1900	1	Mid	-0.02	0.247	20.16	21.00	1.213	0.300	/
	State3		Back Side	10	19100	1900	1	Mid	-0.02	0.227	20.16	21.00	1.213	0.275	/
	State3		Right Edge	10	19100	1900	1	Mid	-0.04	0.099	20.16	21.00	1.213	0.120	/
	State3		Top Edge	10	19100	1900	1	Mid	-0.02	0.374	20.16	21.00	1.213	<b>0.454</b>	<b>18#</b>
	State3		Front Side	10	18900	1900	50	Low	-0.06	0.277	20.57	21.00	1.104	0.306	/
	State3		Back Side	10	18900	1900	50	Low	0.05	0.254	20.57	21.00	1.104	0.280	/
	State3		Right Edge	10	18900	1900	50	Low	-0.01	0.112	20.57	21.00	1.104	0.124	/
	State3		Top Edge	10	18900	1900	50	Low	-0.05	0.402	20.57	21.00	1.104	0.444	/
Ant.3	State8	QPSK	Front Side	10	18700	1880	1	High	-0.05	0.234	19.91	20.75	1.213	0.284	/
	State8		Back Side	10	18700	1880	1	High	-0.07	0.215	19.91	20.75	1.213	0.261	/
	State8		Right Edge	10	18700	1880	1	High	0.04	0.092	19.91	20.75	1.213	0.112	/
	State8		Top Edge	10	18700	1880	1	High	0.07	0.354	19.91	20.75	1.213	0.429	/
	State8		Front Side	10	19100	1900	50	High	-0.08	0.264	20.33	20.75	1.102	0.291	/
	State8		Back Side	10	19100	1900	50	High	0.10	0.241	20.33	20.75	1.102	0.266	/
	State8		Right Edge	10	19100	1900	50	High	0.08	0.108	20.33	20.75	1.102	0.119	/
	State8		Top Edge	10	19100	1900	50	High	-0.02	0.382	20.33	20.75	1.102	0.421	/
Ant.0	State3	QPSK	Front Side	10	19100	1900	1	High	-0.07	0.047	21.41	22.25	1.213	0.057	/
	State3		Back Side	10	19100	1900	1	High	-0.09	0.174	21.41	22.25	1.213	0.211	/
	State3		Left Edge	10	19100	1900	1	High	-0.04	0.004	21.41	22.25	1.213	0.005	/
	State3		Right Edge	10	19100	1900	1	High	0.01	0.003	21.41	22.25	1.213	0.004	/
	State3		Bottom Edge	10	19100	1900	1	High	-0.01	0.188	21.41	22.25	1.213	0.228	/
	State3		Front Side	10	18700	1880	50	Low	-0.03	0.049	21.98	22.25	1.064	0.052	/
	State3		Back Side	10	18700	1880	50	High	-0.01	0.183	21.98	22.25	1.064	0.195	/
	State3		Left Edge	10	18700	1880	50	High	0.06	0.004	21.98	22.25	1.064	0.004	/
	State3		Right Edge	10	18700	1880	50	High	0.06	0.003	21.98	22.25	1.064	0.003	/
	State3		Bottom Edge	10	18700	1880	50	High	0.08	0.205	21.98	22.25	1.064	0.218	/
Ant.0	State8	QPSK	Front Side	10	18900	1900	1	High	-0.05	0.035	20.42	21.25	1.211	0.042	/
	State8		Back Side	10	18900	1900	1	High	0.04	0.136	20.42	21.25	1.211	0.165	/
	State8		Left Edge	10	18900	1900	1	High	-0.03	0.003	20.42	21.25	1.211	0.004	/
	State8		Right Edge	10	18900	1900	1	High	0.09	0.003	20.42	21.25	1.211	0.004	/
	State8		Bottom Edge	10	18900	1900	1	High	-0.02	0.151	20.42	21.25	1.211	0.183	/
	State8		Front Side	10	18700	1880	50	High	0.11	0.039	20.91	21.25	1.081	0.042	/

	State8		Back Side	10	18700	1880	50	High	0.01	0.146	20.91	21.25	1.081	0.158	/
	State8		Left Edge	10	18700	1880	50	High	0.02	0.003	20.91	21.25	1.081	0.003	/
	State8		Right Edge	10	18700	1880	50	High	0.09	0.003	20.91	21.25	1.081	0.003	/
	State8		Bottom Edge	10	18700	1880	50	High	-0.04	0.161	20.91	21.25	1.081	0.174	/

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.3	State5	QPSK	Left Cheek	0	20175	1732.5	1	High	-0.07	0.388	18.98	19.75	1.194	0.463	/
	State5		Left Tilt	0	20175	1732.5	1	High	0.07	0.451	18.98	19.75	1.194	0.538	/
	State5		Right Cheek	0	20175	1732.5	1	High	-0.10	0.653	18.98	19.75	1.194	0.780	/
	State5		Right Tilt	0	20175	1732.5	1	High	0.02	0.718	18.98	19.75	1.194	<b>0.857</b>	19#
	State5		Left Cheek	0	20050	1720	50	High	0.01	0.387	18.95	19.75	1.202	0.465	/
	State5		Left Tilt	0	20050	1720	50	High	0.00	0.444	18.95	19.75	1.202	0.534	/
	State5		Right Cheek	0	20050	1720	50	High	-0.09	0.643	18.95	19.75	1.202	0.773	/
	State5		Right Tilt	0	20050	1720	50	High	-0.03	0.707	18.95	19.75	1.202	0.850	/
	State5		Right Tilt	0	20050	1720	1	High	-0.02	0.701	18.97	19.75	1.197	0.839	/
	State5		Right Tilt	0	20300	1745	1	Low	-0.05	0.682	18.83	19.75	1.236	0.843	/
	State5		Right Tilt	0	20175	1732.5	50	High	-0.03	0.707	18.94	19.75	1.205	0.852	/
	State5		Right Tilt	0	20300	1745	50	Low	0.11	0.693	18.87	19.75	1.225	0.849	/
	State5		Right Tilt	0	20050	1720	100	Low	0.02	0.707	18.92	19.75	1.211	0.856	/
Ant.3	State10	QPSK	Left Cheek	0	20050	1720	1	High	-0.07	0.328	18.21	19.00	1.199	0.393	/
	State10		Left Tilt	0	20050	1720	1	High	-0.05	0.382	18.21	19.00	1.199	0.458	/
	State10		Right Cheek	0	20050	1720	1	High	-0.10	0.545	18.21	19.00	1.199	0.653	/
	State10		Right Tilt	0	20050	1720	1	High	-0.03	0.603	18.21	19.00	1.199	0.723	/
	State10		Left Cheek	0	20050	1720	50	Mid	0.09	0.324	18.65	19.00	1.084	0.351	/
	State10		Left Tilt	0	20050	1720	50	Mid	-0.01	0.371	18.65	19.00	1.084	0.402	/
	State10		Right Cheek	0	20050	1720	50	Mid	0.01	0.545	18.65	19.00	1.084	0.591	/
	State10		Right Tilt	0	20050	1720	50	Mid	0.09	0.598	18.65	19.00	1.084	0.648	/
Ant.0	State5&10	QPSK	Left Cheek	0	20050	1720	1	High	-0.04	0.092	22.77	23.50	1.183	0.109	/
	State5&10		Left Tilt	0	20050	1720	1	High	0.10	0.044	22.77	23.50	1.183	0.052	/
	State5&10		Right Cheek	0	20050	1720	1	High	0.04	0.078	22.77	23.50	1.183	0.092	/
	State5&10		Right Tilt	0	20050	1720	1	High	0.10	0.037	22.77	23.50	1.183	0.044	/
	State5&10		Left Cheek	0	20300	1745	50	High	0.07	0.084	22.18	22.50	1.076	0.090	/
	State5&10		Left Tilt	0	20300	1745	50	High	0.06	0.038	22.18	22.50	1.076	0.041	/
	State5&10		Right Cheek	0	20300	1745	50	High	-0.08	0.076	22.18	22.50	1.076	0.082	/
	State5&10		Right Tilt	0	20300	1745	50	High	-0.09	0.031	22.18	22.50	1.076	0.033	/
<b>Body-worn</b>															
Ant.3	State3	QPSK	Front Side	15	20175	1732.5	1	High	-0.03	0.186	21.20	22.00	1.202	0.224	/
	State3		Back Side	15	20175	1732.5	1	High	-0.01	0.208	21.20	22.00	1.202	0.250	/
	State3		Front Side	15	20050	1720	50	Mid	-0.09	0.179	21.65	22.00	1.084	0.194	/
	State3		Back Side	15	20050	1720	50	Mid	-0.04	0.205	21.65	22.00	1.084	0.222	/
Ant.3	State8	QPSK	Front Side	15	20175	1732.5	1	Mid	0.11	0.163	20.70	21.50	1.202	0.196	/
	State8		Back Side	15	20175	1732.5	1	Mid	-0.03	0.188	20.70	21.50	1.202	0.226	/



	State8		Front Side	15	20050	1720	50	Mid	0.00	0.161	21.11	21.50	1.094	0.176	/
	State8		Back Side	15	20050	1720	50	Mid	-0.03	0.185	21.11	21.50	1.094	0.202	/
Ant.0	State3	QPSK	Front Side	15	20175	1732.5	1	High	-0.05	0.154	22.34	23.00	1.164	0.179	/
	State3		Back Side	15	20175	1732.5	1	High	0.02	0.262	22.34	23.00	1.164	<b>0.305</b>	20#
	State3		Front Side	15	20050	1720	50	High	0.06	0.154	22.22	22.50	1.067	0.164	/
	State3		Back Side	15	20050	1720	50	High	0.04	0.268	22.22	22.50	1.067	0.286	/
Ant.0	State8	QPSK	Front Side	15	20175	1732.5	1	High	0.08	0.137	21.80	22.50	1.175	0.161	/
	State8		Back Side	15	20175	1732.5	1	High	-0.10	0.233	21.80	22.50	1.175	0.274	/
	State8		Front Side	15	20050	1720	50	High	0.03	0.137	21.76	22.50	1.186	0.162	/
	State8		Back Side	15	20050	1720	50	High	-0.01	0.236	21.76	22.50	1.186	0.280	/
<b>Hotspot</b>															
Ant.3	State3	QPSK	Front Side	10	20175	1732.5	1	High	0.10	0.282	21.20	22.00	1.202	0.339	/
	State3		Back Side	10	20175	1732.5	1	High	0.04	0.316	21.20	22.00	1.202	0.380	/
	State3		Right Edge	10	20175	1732.5	1	High	0.08	0.094	21.20	22.00	1.202	0.113	/
	State3		Top Edge	10	20175	1732.5	1	High	-0.04	0.425	21.20	22.00	1.202	0.511	/
	State3		Front Side	10	20050	1720	50	Mid	-0.08	0.274	21.65	22.00	1.084	0.297	/
	State3		Back Side	10	20050	1720	50	Mid	0.07	0.307	21.65	22.00	1.084	0.333	/
	State3		Right Edge	10	20050	1720	50	Mid	0.01	0.094	21.65	22.00	1.084	0.102	/
	State3		Top Edge	10	20050	1720	50	Mid	0.07	0.425	21.65	22.00	1.084	0.461	/
Ant.3	State8	QPSK	Front Side	10	20175	1732.5	1	Mid	0.04	0.248	20.70	21.50	1.202	0.298	/
	State8		Back Side	10	20175	1732.5	1	Mid	-0.03	0.281	20.70	21.50	1.202	0.338	/
	State8		Right Edge	10	20175	1732.5	1	Mid	-0.03	0.086	20.70	21.50	1.202	0.103	/
	State8		Top Edge	10	20175	1732.5	1	Mid	-0.01	0.375	20.70	21.50	1.202	0.451	/
	State8		Front Side	10	20050	1720	50	Mid	-0.09	0.248	21.11	21.50	1.094	0.271	/
	State8		Back Side	10	20050	1720	50	Mid	-0.05	0.271	21.11	21.50	1.094	0.296	/
	State8		Right Edge	10	20050	1720	50	Mid	-0.03	0.082	21.11	21.50	1.094	0.090	/
	State8		Top Edge	10	20050	1720	50	Mid	0.01	0.371	21.11	21.50	1.094	0.406	/
Ant.0	State3	QPSK	Front Side	10	20175	1732.5	1	High	0.06	0.259	22.34	23.00	1.164	0.301	/
	State3		Back Side	10	20175	1732.5	1	High	0.02	0.491	22.34	23.00	1.164	0.572	/
	State3		Left Edge	10	20175	1732.5	1	High	0.11	0.098	22.34	23.00	1.164	0.114	/
	State3		Right Edge	10	20175	1732.5	1	High	0.02	0.046	22.34	23.00	1.164	0.054	/
	State3		Bottom Edge	10	20175	1732.5	1	High	0.01	0.537	22.34	23.00	1.164	<b>0.625</b>	21#
	State3		Front Side	10	20050	1720	50	High	-0.04	0.264	22.22	22.50	1.067	0.282	/
	State3		Back Side	10	20050	1720	50	High	0.06	0.509	22.22	22.50	1.067	0.543	/
	State3		Left Edge	10	20050	1720	50	High	-0.01	0.095	22.22	22.50	1.067	0.101	/
	State3		Right Edge	10	20050	1720	50	High	0.04	0.044	22.22	22.50	1.067	0.047	/
	State3		Bottom Edge	10	20050	1720	50	High	0.08	0.559	22.22	22.50	1.067	0.596	/
Ant.0	State8	QPSK	Front Side	10	20175	1732.5	1	High	0.11	0.228	21.80	22.50	1.175	0.268	/
	State8		Back Side	10	20175	1732.5	1	High	0.10	0.436	21.80	22.50	1.175	0.512	/
	State8		Left Edge	10	20175	1732.5	1	High	-0.07	0.085	21.80	22.50	1.175	0.100	/
	State8		Right Edge	10	20175	1732.5	1	High	0.10	0.043	21.80	22.50	1.175	0.051	/
	State8		Bottom Edge	10	20175	1732.5	1	High	-0.07	0.481	21.80	22.50	1.175	0.565	/
	State8		Front Side	10	20050	1720	50	High	-0.03	0.236	21.76	22.50	1.186	0.280	/

	State8		Back Side	10	20050	1720	50	High	0.08	0.450	21.76	22.50	1.186	0.534	/
	State8		Left Edge	10	20050	1720	50	High	-0.08	0.084	21.76	22.50	1.186	0.100	/
	State8		Right Edge	10	20050	1720	50	High	-0.07	0.039	21.76	22.50	1.186	0.046	/
	State8		Bottom Edge	10	20050	1720	50	High	0.10	0.492	21.76	22.50	1.186	0.584	/

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

### 11.8LTE Band 5 (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	State5&10	QPSK	Left Cheek	0	20525	836.5	1	Mid	0.01	0.456	23.23	24.50	1.340	<b>0.611</b>	22#
	State5&10		Left Tilt	0	20525	836.5	1	Mid	0.08	0.048	23.23	24.50	1.340	0.064	/
	State5&10		Right Cheek	0	20525	836.5	1	Mid	0.10	0.343	23.23	24.50	1.340	0.460	/
	State5&10		Right Tilt	0	20525	836.5	1	Mid	-0.03	0.040	23.23	24.50	1.340	0.054	/
	State5&10		Left Cheek	0	20525	836.5	25	High	0.10	0.358	21.75	23.50	1.496	0.536	/
	State5&10		Left Tilt	0	20525	836.5	25	High	-0.05	0.038	21.75	23.50	1.496	0.057	/
	State5&10		Right Cheek	0	20525	836.5	25	High	-0.10	0.275	21.75	23.50	1.496	0.411	/
	State5&10		Right Tilt	0	20525	836.5	25	High	0.01	0.032	21.75	23.50	1.496	0.048	/
Ant.0	State5&10	QPSK	Left Cheek	0	20525	836.5	1	Mid	0.02	0.179	23.64	24.50	1.219	0.218	/
	State5&10		Left Tilt	0	20525	836.5	1	Mid	-0.02	0.093	23.64	24.50	1.219	0.113	/
	State5&10		Right Cheek	0	20525	836.5	1	Mid	-0.04	0.160	23.64	24.50	1.219	0.195	/
	State5&10		Right Tilt	0	20525	836.5	1	Mid	0.02	0.075	23.64	24.50	1.219	0.091	/
	State5&10		Left Cheek	0	20600	20600	844	Mid	-0.06	0.128	22.64	23.50	1.219	0.156	/
	State5&10		Left Tilt	0	20600	20600	844	Mid	0.09	0.067	22.64	23.50	1.219	0.082	/
	State5&10		Right Cheek	0	20600	20600	844	Mid	-0.09	0.126	22.64	23.50	1.219	0.154	/
	State5&10		Right Tilt	0	20600	20600	844	Mid	0.11	0.058	22.64	23.50	1.219	0.071	/
<b>Body-worn</b>															
Ant.1	State3&8	QPSK	Front Side	15	20525	836.5	1	Mid	-0.08	0.073	23.23	24.50	1.340	0.098	/
	State3&8		Back Side	15	20525	836.5	1	Mid	0.10	0.082	23.23	24.50	1.340	0.110	/
	State3&8		Front Side	15	20525	836.5	25	High	-0.02	0.056	21.75	23.50	1.496	0.084	/
	State3&8		Back Side	15	20525	836.5	25	High	-0.02	0.062	21.75	23.50	1.496	0.093	/
Ant.0	State3&8	QPSK	Front Side	15	20525	836.5	1	Mid	0.05	0.143	22.64	23.50	1.219	0.174	/
	State3&8		Back Side	15	20525	836.5	1	Mid	-0.02	0.167	22.64	23.50	1.219	<b>0.204</b>	23#
	State3&8		Front Side	15	20600	20600	844	Mid	0.10	0.102	22.64	23.50	1.219	0.124	/
	State3&8		Back Side	15	20600	20600	844	Mid	-0.09	0.118	22.64	23.50	1.219	0.144	/
<b>Hotspot</b>															
Ant.1	State3&8	QPSK	Front Side	10	20525	836.5	1	Mid	0.09	0.198	23.23	24.50	1.340	0.265	/
	State3&8		Back Side	10	20525	836.5	1	Mid	0.07	0.210	23.23	24.50	1.340	0.281	/
	State3&8		Right Edge	10	20525	836.5	1	Mid	-0.06	0.372	23.23	24.50	1.340	<b>0.498</b>	24#
	State3&8		Front Side	10	20525	836.5	25	High	-0.02	0.151	21.75	23.50	1.496	0.226	/
	State3&8		Back Side	10	20525	836.5	25	High	-0.02	0.160	21.75	23.50	1.496	0.239	/
	State3&8		Right Edge	10	20525	836.5	25	High	-0.05	0.284	21.75	23.50	1.496	0.425	/
Ant.0	State3&8	QPSK	Front Side	10	20525	836.5	1	Mid	-0.10	0.146	23.64	24.50	1.219	0.178	/
	State3&8		Back Side	10	20525	836.5	1	Mid	-0.06	0.228	23.64	24.50	1.219	0.278	/
	State3&8		Left Edge	10	20525	836.5	1	Mid	-0.05	0.087	23.64	24.50	1.219	0.106	/
	State3&8		Right Edge	10	20525	836.5	1	Mid	0.09	0.134	23.64	24.50	1.219	0.163	/

State3&8	Bottom Edge	10	20525	836.5	1	Mid	0.11	0.221	23.64	24.50	1.219	0.269	/
State3&8	Front Side	10	20600	20600	844	Mid	0.02	0.105	22.64	23.50	1.219	0.128	/
State3&8	Back Side	10	20600	20600	844	Mid	-0.08	0.170	22.64	23.50	1.219	0.207	/
State3&8	Left Edge	10	20600	20600	844	Mid	-0.05	0.063	22.64	23.50	1.219	0.077	/
State3&8	Right Edge	10	20600	20600	844	Mid	-0.05	0.094	22.64	23.50	1.219	0.115	/
State3&8	Bottom Edge	10	20600	20600	844	Mid	0.11	0.162	22.64	23.50	1.219	0.197	/

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.3	State5	QPSK	Left Cheek	0	21100	2535	1	Mid	0.07	0.248	18.05	19.45	1.380	0.342	/
	State5		Left Tilt	0	21100	2535	1	Mid	0.03	0.290	18.05	19.45	1.380	0.400	/
	State5		Right Cheek	0	21100	2535	1	Mid	-0.09	0.525	18.05	19.45	1.380	0.725	/
	State5		Right Tilt	0	21100	2535	1	Mid	0.01	0.702	18.05	19.45	1.380	0.969	/
	State5		Left Cheek	0	20850	2510	50	Mid	0.05	0.243	17.68	19.45	1.503	0.365	/
	State5		Left Tilt	0	20850	2510	50	Mid	0.07	0.291	17.68	19.45	1.503	0.437	/
	State5		Right Cheek	0	20850	2510	50	Mid	0.07	0.528	17.68	19.45	1.503	0.794	/
	State5		Right Tilt	0	20850	2510	50	Mid	-0.02	0.652	17.68	19.45	1.503	0.980	/
	State5		Right Tilt	0	20850	2510	1	Mid	-0.04	0.592	17.76	19.45	1.476	0.874	/
	State5		Right Tilt	0	21350	2560	1	Mid	0.09	0.630	17.94	19.45	1.416	0.892	/
	State5		Right Tilt	0	21100	2535	50	High	0.01	0.657	17.66	19.45	1.510	<b>0.992</b>	25#
	State5		Right Tilt	0	21350	2560	50	Low	-0.06	0.648	17.67	19.45	1.507	0.977	/
	State5		Right Tilt	0	21100	2535	100	Low	0.03	0.635	17.66	19.45	1.510	0.959	/
Ant.3	State10	QPSK	Left Cheek	0	21100	2535	1	High	0.09	0.223	17.55	18.95	1.380	0.308	/
	State10		Left Tilt	0	21100	2535	1	High	0.01	0.256	17.55	18.95	1.380	0.353	/
	State10		Right Cheek	0	21100	2535	1	High	0.09	0.469	17.55	18.95	1.380	0.647	/
	State10		Right Tilt	0	21100	2535	1	High	-0.02	0.628	17.55	18.95	1.380	0.867	/
	State10		Left Cheek	0	21350	2560	50	Mid	-0.09	0.217	17.25	18.95	1.479	0.321	/
	State10		Left Tilt	0	21350	2560	50	Mid	-0.01	0.259	17.25	18.95	1.479	0.383	/
	State10		Right Cheek	0	21350	2560	50	Mid	-0.02	0.470	17.25	18.95	1.479	0.695	/
	State10		Right Tilt	0	21350	2560	50	Mid	-0.03	0.583	17.25	18.95	1.479	0.862	/
	State10		Right Tilt	0	20850	2510	1	Mid	0.09	0.535	17.27	18.95	1.472	0.788	/
	State10		Right Tilt	0	21350	2560	1	Mid	0.03	0.563	17.34	18.95	1.449	0.816	/
	State10		Right Tilt	0	20850	2510	50	Mid	0.07	0.583	17.14	18.95	1.517	0.884	/
	State10		Right Tilt	0	21100	2535	50	Mid	0.00	0.559	17.04	18.95	1.552	0.868	/
	State10		Right Tilt	0	21350	2560	100	Low	0.02	0.560	17.19	18.95	1.500	0.840	/
Ant.4	State5&10	QPSK	Left Cheek	0	20850	2510	1	Mid	-0.05	0.122	22.27	23.20	1.239	0.151	/
	State5&10		Left Tilt	0	20850	2510	1	Mid	0.04	0.083	22.27	23.20	1.239	0.103	/
	State5&10		Right Cheek	0	20850	2510	1	Mid	0.03	0.358	22.27	23.20	1.239	0.444	/
	State5&10		Right Tilt	0	20850	2510	1	Mid	-0.04	0.191	22.27	23.20	1.239	0.237	/
	State5&10		Left Cheek	0	20850	2510	50	Mid	0.07	0.092	21.01	22.20	1.315	0.121	/
	State5&10		Left Tilt	0	20850	2510	50	Mid	0.04	0.062	21.01	22.20	1.315	0.082	/
	State5&10		Right Cheek	0	20850	2510	50	Mid	-0.03	0.286	21.01	22.20	1.315	0.376	/
	State5&10		Right Tilt	0	20850	2510	50	Mid	-0.05	0.143	21.01	22.20	1.315	0.188	/
Ant.0	State5&10	QPSK	Left Cheek	0	21100	2535	1	High	0.00	0.224	23.61	24.20	1.146	0.257	/
	State5&10		Left Tilt	0	21100	2535	1	High	0.05	0.147	23.61	24.20	1.146	0.168	/

	State5&10		Right Cheek	0	21100	2535	1	High	0.06	0.188	23.61	24.20	1.146	0.215	/
	State5&10		Right Tilt	0	21100	2535	1	High	0.03	0.121	23.61	24.20	1.146	0.139	/
	State5&10		Left Cheek	0	21350	2560	50	Low	0.04	0.166	22.40	23.20	1.202	0.200	/
	State5&10		Left Tilt	0	21350	2560	50	Low	-0.10	0.106	22.40	23.20	1.202	0.127	/
	State5&10		Right Cheek	0	21350	2560	50	Low	-0.08	0.139	22.40	23.20	1.202	0.167	/
	State5&10		Right Tilt	0	21350	2560	50	Low	0.08	0.087	22.40	23.20	1.202	0.105	/
<b>Body-worn</b>															
Ant.3	State3	QPSK	Front Side	15	21100	2535	1	High	-0.09	0.061	19.44	20.20	1.191	0.073	/
	State3		Back Side	15	21100	2535	1	High	0.07	0.060	19.44	20.20	1.191	0.071	/
	State3		Front Side	15	21350	2560	50	Low	-0.03	0.059	19.10	20.20	1.288	0.076	/
	State3		Back Side	15	21350	2560	50	Low	-0.08	0.055	19.10	20.20	1.288	0.071	/
Ant.3	State8	QPSK	Front Side	15	21100	2535	1	High	0.01	0.058	18.72	19.95	1.327	0.077	/
	State8		Back Side	15	21100	2535	1	High	-0.06	0.056	18.72	19.95	1.327	0.074	/
	State8		Front Side	15	21350	2560	50	Low	-0.10	0.055	18.42	19.95	1.422	0.078	/
	State8		Back Side	15	21350	2560	50	Low	0.00	0.052	18.42	19.95	1.422	0.074	/
Ant.4	State3&8	QPSK	Front Side	15	20850	2510	1	Mid	-0.01	0.045	19.77	20.70	1.239	0.056	/
	State3&8		Back Side	15	20850	2510	1	Mid	-0.08	0.150	19.77	20.70	1.239	0.186	/
	State3&8		Front Side	15	20850	2510	50	Mid	-0.10	0.043	19.68	20.70	1.265	0.054	/
	State3&8		Back Side	15	20850	2510	50	Mid	-0.01	0.146	19.68	20.70	1.265	0.185	/
Ant.0	State3	QPSK	Front Side	15	21100	2535	1	High	-0.09	0.273	23.61	24.20	1.146	0.313	/
	State3		Back Side	15	21100	2535	1	High	0.03	0.290	23.61	24.20	1.146	<b>0.332</b>	26#
	State3		Front Side	15	21350	2560	50	Low	0.08	0.249	22.40	23.20	1.202	0.299	/
	State3		Back Side	15	21350	2560	50	Low	0.03	0.274	22.40	23.20	1.202	0.329	/
Ant.0	State8	QPSK	Front Side	15	21100	2535	1	High	0.00	0.218	22.70	23.20	1.122	0.245	/
	State8		Back Side	15	21100	2535	1	High	0.04	0.231	22.70	23.20	1.122	0.259	/
	State8		Front Side	15	21350	2560	50	Low	-0.03	0.199	22.40	23.20	1.202	0.239	/
	State8		Back Side	15	21350	2560	50	Low	-0.05	0.217	22.40	23.20	1.202	0.261	/
<b>Hotspot</b>															
Ant.3	State3	QPSK	Front Side	10	21100	2535	1	High	0.04	0.139	19.44	20.20	1.191	0.166	/
	State3		Back Side	10	21100	2535	1	High	-0.03	0.120	19.44	20.20	1.191	0.143	/
	State3		Right Edge	10	21100	2535	1	High	0.07	0.062	19.44	20.20	1.191	0.074	/
	State3		Top Edge	10	21100	2535	1	High	0.10	0.229	19.44	20.20	1.191	0.273	/
	State3		Front Side	10	21350	2560	50	Low	0.07	0.136	19.10	20.20	1.288	0.175	/
	State3		Back Side	10	21350	2560	50	Low	0.11	0.118	19.10	20.20	1.288	0.152	/
	State3		Right Edge	10	21350	2560	50	Low	-0.05	0.062	19.10	20.20	1.288	0.080	/
	State3		Top Edge	10	21350	2560	50	Low	0.02	0.233	19.10	20.20	1.288	0.300	/
Ant.3	State8	QPSK	Front Side	10	21100	2535	1	High	0.06	0.134	18.72	19.95	1.327	0.178	/
	State8		Back Side	10	21100	2535	1	High	-0.06	0.115	18.72	19.95	1.327	0.153	/
	State8		Right Edge	10	21100	2535	1	High	-0.09	0.058	18.72	19.95	1.327	0.077	/
	State8		Top Edge	10	21100	2535	1	High	0.08	0.217	18.72	19.95	1.327	0.288	/
	State8		Front Side	10	21350	2560	50	Low	-0.08	0.128	18.42	19.95	1.422	0.182	/
	State8		Back Side	10	21350	2560	50	Low	-0.02	0.112	18.42	19.95	1.422	0.159	/

	State8		Right Edge	10	21350	2560	50	Low	-0.10	0.058	18.42	19.95	1.422	0.082	/		
	State8		Top Edge	10	21350	2560	50	Low	-0.05	0.220	18.42	19.95	1.422	0.313	/		
Ant.4	State3&8	QPSK	Front Side	10	20850	2510	1	Mid	0.03	0.043	19.77	20.70	1.239	0.053	/		
	State3&8		Back Side	10	20850	2510	1	Mid	-0.08	0.373	19.77	20.70	1.239	0.462	/		
	State3&8		Right Edge	10	20850	2510	1	Mid	-0.09	0.250	19.77	20.70	1.239	0.310	/		
	State3&8		Top Edge	10	20850	2510	1	Mid	0.09	0.042	19.77	20.70	1.239	0.052	/		
	State3&8		Front Side	10	20850	2510	50	Mid	-0.03	0.040	19.68	20.70	1.265	0.051	/		
	State3&8		Back Side	10	20850	2510	50	Mid	-0.09	0.321	19.68	20.70	1.265	0.406	/		
	State3&8		Right Edge	10	20850	2510	50	Mid	0.03	0.223	19.68	20.70	1.265	0.282	/		
	State3&8		Top Edge	10	20850	2510	50	Mid	0.08	0.040	19.68	20.70	1.265	0.051	/		
	Ant.0		State3	QPSK	Front Side	10	21100	2535	1	High	0.10	0.416	23.61	24.20	1.146	0.477	/
			State3		Back Side	10	21100	2535	1	High	-0.11	0.504	23.61	24.20	1.146	<b>0.578</b>	27#
State3		Left Edge	10		21100	2535	1	High	0.08	0.326	23.61	24.20	1.146	0.374	/		
State3		Right Edge	10		21100	2535	1	High	0.08	0.069	23.61	24.20	1.146	0.079	/		
State3		Bottom Edge	10		21100	2535	1	High	0.01	0.326	23.61	24.20	1.146	0.374	/		
State3		Front Side	10		21350	2560	50	Low	-0.07	0.308	22.40	23.20	1.202	0.370	/		
State3		Back Side	10		21350	2560	50	Low	0.05	0.382	22.40	23.20	1.202	0.459	/		
State3		Left Edge	10		21350	2560	50	Low	0.10	0.249	22.40	23.20	1.202	0.299	/		
State3		Right Edge	10		21350	2560	50	Low	0.02	0.056	22.40	23.20	1.202	0.067	/		
State3		Bottom Edge	10		21350	2560	50	Low	0.05	0.243	22.40	23.20	1.202	0.292	/		
Ant.0	State8	QPSK	Front Side	10	21100	2535	1	High	-0.07	0.330	22.70	23.20	1.122	0.370	/		
	State8		Back Side	10	21100	2535	1	High	-0.05	0.363	22.70	23.20	1.122	0.407	/		
	State8		Left Edge	10	21100	2535	1	High	0.09	0.259	22.70	23.20	1.122	0.291	/		
	State8		Right Edge	10	21100	2535	1	High	-0.08	0.055	22.70	23.20	1.122	0.062	/		
	State8		Bottom Edge	10	21100	2535	1	High	0.08	0.249	22.70	23.20	1.122	0.279	/		
	State8		Front Side	10	21350	2560	50	Low	0.11	0.297	22.40	23.20	1.202	0.357	/		
	State8		Back Side	10	21350	2560	50	Low	0.10	0.333	22.40	23.20	1.202	0.400	/		
	State8		Left Edge	10	21350	2560	50	Low	-0.10	0.240	22.40	23.20	1.202	0.288	/		
	State8		Right Edge	10	21350	2560	50	Low	-0.04	0.053	22.40	23.20	1.202	0.064	/		
	State8		Bottom Edge	10	21350	2560	50	Low	0.11	0.234	22.40	23.20	1.202	0.281	/		

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.3	State5	QPSK	Right Tilt	0	21100 +21298	2535 +2554.8	1+1	High +Low	-0.03	0.640	17.71	19.45	1.493	0.956	/
<b>Body-worn-CA</b>															
Ant.0	State3	QPSK	Back Side	15	21100 +21298	2535 +2554.8	1+1	High +Low	0.04	0.268	23.33	24.20	1.222	0.327	/
<b>Hotspot-CA</b>															
Ant.0	State3	QPSK	Bottom Edge	10	21100 +21298	2535 +2554.8	1+1	High +Low	-0.02	0.300	23.33	24.20	1.222	0.367	/
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	State5&10	QPSK	Left Cheek	0	23095	707.5	1	High	0.00	0.407	23.43	24.50	1.279	<b>0.521</b>	28#
	State5&10		Left Tilt	0	23095	707.5	1	High	0.06	0.058	23.43	24.50	1.279	0.074	/
	State5&10		Right Cheek	0	23095	707.5	1	High	0.00	0.254	23.43	24.50	1.279	0.325	/
	State5&10		Right Tilt	0	23095	707.5	1	High	-0.08	0.026	23.43	24.50	1.279	0.033	/
	State5&10		Left Cheek	0	23060	704	25	High	-0.06	0.323	21.95	23.50	1.429	0.462	/
	State5&10		Left Tilt	0	23060	704	25	High	0.00	0.052	21.95	23.50	1.429	0.074	/
	State5&10		Right Cheek	0	23060	704	25	High	-0.02	0.201	21.95	23.50	1.429	0.287	/
	State5&10		Right Tilt	0	23060	704	25	High	-0.10	0.021	21.95	23.50	1.429	0.030	/
Ant.0	State5&10	QPSK	Left Cheek	0	23095	707.5	1	High	0.00	0.058	23.19	24.50	1.352	0.078	/
	State5&10		Left Tilt	0	23095	707.5	1	High	0.10	0.024	23.19	24.50	1.352	0.032	/
	State5&10		Right Cheek	0	23095	707.5	1	High	0.08	0.047	23.19	24.50	1.352	0.064	/
	State5&10		Right Tilt	0	23095	707.5	1	High	0.11	0.019	23.19	24.50	1.352	0.026	/
	State5&10		Left Cheek	0	23130	711	25	Low	-0.10	0.046	21.68	23.50	1.521	0.070	/
	State5&10		Left Tilt	0	23130	711	25	Low	0.04	0.019	21.68	23.50	1.521	0.029	/
	State5&10		Right Cheek	0	23130	711	25	Low	-0.08	0.035	21.68	23.50	1.521	0.053	/
	State5&10		Right Tilt	0	23130	711	25	Low	0.04	0.013	21.68	23.50	1.521	0.020	/
<b>Body-worn</b>															
Ant.1	State3&8	QPSK	Front Side	15	23095	707.5	1	High	-0.07	0.097	23.43	24.50	1.279	0.124	/
	State3&8		Back Side	15	23095	707.5	1	High	-0.03	0.114	23.43	24.50	1.279	<b>0.146</b>	29#
	State3&8		Front Side	15	23060	704	25	High	0.11	0.072	21.95	23.50	1.429	0.103	/
	State3&8		Back Side	15	23060	704	25	High	-0.02	0.083	21.95	23.50	1.429	0.119	/
Ant.0	State3&8	QPSK	Front Side	15	23095	707.5	1	High	0.00	0.074	23.19	24.50	1.352	0.100	/
	State3&8		Back Side	15	23095	707.5	1	High	-0.05	0.099	23.19	24.50	1.352	0.134	/
	State3&8		Front Side	15	23130	711	25	Low	-0.08	0.055	21.68	23.50	1.521	0.084	/
	State3&8		Back Side	15	23130	711	25	Low	-0.05	0.072	21.68	23.50	1.521	0.110	/
<b>Hotspot</b>															
Ant.1	State3&8	QPSK	Front Side	10	23095	707.5	1	High	-0.03	0.163	23.43	24.50	1.279	0.208	/
	State3&8		Back Side	10	23095	707.5	1	High	-0.02	0.176	23.43	24.50	1.279	0.225	/
	State3&8		Right Edge	10	23095	707.5	1	High	-0.02	0.366	23.43	24.50	1.279	<b>0.468</b>	30#
	State3&8		Front Side	10	23060	704	25	High	0.02	0.121	21.95	23.50	1.429	0.173	/
	State3&8		Back Side	10	23060	704	25	High	0.04	0.131	21.95	23.50	1.429	0.187	/
	State3&8		Right Edge	10	23060	704	25	High	-0.10	0.262	21.95	23.50	1.429	0.374	/
Ant.0	State3&8	QPSK	Front Side	10	23095	707.5	1	High	-0.07	0.063	23.19	24.50	1.352	0.085	/
	State3&8		Back Side	10	23095	707.5	1	High	-0.05	0.102	23.19	24.50	1.352	0.138	/
	State3&8		Left Edge	10	23095	707.5	1	High	-0.09	0.078	23.19	24.50	1.352	0.105	/
	State3&8		Right Edge	10	23095	707.5	1	High	0.06	0.098	23.19	24.50	1.352	0.132	/

State3&8	Bottom Edge	10	23095	707.5	1	High	-0.09	0.010	23.19	24.50	1.352	0.014	/
State3&8	Front Side	10	23130	711	25	Low	0.06	0.047	21.68	23.50	1.521	0.071	/
State3&8	Back Side	10	23130	711	25	Low	0.03	0.075	21.68	23.50	1.521	0.114	/
State3&8	Left Edge	10	23130	711	25	Low	0.07	0.059	21.68	23.50	1.521	0.090	/
State3&8	Right Edge	10	23130	711	25	Low	0.03	0.072	21.68	23.50	1.521	0.110	/
State3&8	Bottom Edge	10	23130	711	25	Low	0.07	0.008	21.68	23.50	1.521	0.012	/

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	State5	QPSK	Left Cheek	0	23230	782	1	High	0.02	0.755	23.37	24.50	1.297	<b>0.979</b>	31#
	State5		Left Tilt	0	23230	782	1	High	0.07	0.092	23.37	24.50	1.297	0.119	/
	State5		Right Cheek	0	23230	782	1	High	0.02	0.470	23.37	24.50	1.297	0.610	/
	State5		Right Tilt	0	23230	782	1	High	-0.09	0.046	23.37	24.50	1.297	0.060	/
	State5		Left Cheek	0	23230	782	25	High	0.05	0.603	21.86	23.50	1.459	0.880	/
	State5		Left Tilt	0	23230	782	25	High	-0.08	0.079	21.86	23.50	1.459	0.115	/
	State5		Right Cheek	0	23230	782	25	High	0.07	0.374	21.86	23.50	1.459	0.546	/
	State5		Right Tilt	0	23230	782	25	High	0.04	0.035	21.86	23.50	1.459	0.051	/
	State5		Left Cheek	0	23230	782	50	Low	-0.05	0.605	21.84	23.50	1.466	0.887	/
Ant.1	State10	QPSK	Left Cheek	0	23230	782	1	High	-0.03	0.573	22.36	23.50	1.300	0.745	/
	State10		Left Tilt	0	23230	782	1	High	0.11	0.071	22.36	23.50	1.300	0.092	/
	State10		Right Cheek	0	23230	782	1	High	0.03	0.365	22.36	23.50	1.300	0.475	/
	State10		Right Tilt	0	23230	782	1	High	-0.12	0.036	22.36	23.50	1.300	0.047	/
	State10		Left Cheek	0	23230	782	25	Low	0.03	0.511	21.89	23.50	1.449	0.740	/
	State10		Left Tilt	0	23230	782	25	Low	-0.10	0.073	21.89	23.50	1.449	0.106	/
	State10		Right Cheek	0	23230	782	25	Low	-0.06	0.367	21.89	23.50	1.449	0.532	/
	State10		Right Tilt	0	23230	782	25	Low	-0.01	0.033	21.89	23.50	1.449	0.048	/
Ant.0	State5&10	QPSK	Left Cheek	0	23230	782	1	High	0.00	0.155	23.20	24.50	1.349	0.209	/
	State5&10		Left Tilt	0	23230	782	1	High	-0.09	0.086	23.20	24.50	1.349	0.116	/
	State5&10		Right Cheek	0	23230	782	1	High	0.11	0.132	23.20	24.50	1.349	0.178	/
	State5&10		Right Tilt	0	23230	782	1	High	-0.04	0.071	23.20	24.50	1.349	0.096	/
	State5&10		Left Cheek	0	23230	782	25	Mid	0.04	0.113	21.67	23.50	1.524	0.172	/
	State5&10		Left Tilt	0	23230	782	25	Mid	0.06	0.063	21.67	23.50	1.524	0.096	/
	State5&10		Right Cheek	0	23230	782	25	Mid	0.00	0.096	21.67	23.50	1.524	0.146	/
	State5&10		Right Tilt	0	23230	782	25	Mid	0.01	0.053	21.67	23.50	1.524	0.081	/
<b>Body-worn</b>															
Ant.1	State3&8	QPSK	Front Side	15	23230	782	1	High	-0.09	0.152	23.37	24.50	1.297	0.197	/
	State3&8		Back Side	15	23230	782	1	High	0.06	0.172	23.37	24.50	1.297	0.223	/
	State3&8		Front Side	15	23230	782	25	High	-0.03	0.109	21.86	23.50	1.459	0.159	/
	State3&8		Back Side	15	23230	782	25	High	0.01	0.124	21.86	23.50	1.459	0.181	/
Ant.0	State3&8	QPSK	Front Side	15	23230	782	1	High	0.01	0.145	23.20	24.50	1.349	0.196	/
	State3&8		Back Side	15	23230	782	1	High	-0.07	0.179	23.20	24.50	1.349	<b>0.241</b>	32#
	State3&8		Front Side	15	23230	782	25	Mid	0.02	0.105	21.67	23.50	1.524	0.160	/
	State3&8		Back Side	15	23230	782	25	Mid	0.00	0.127	21.67	23.50	1.524	0.194	/
<b>Hotspot</b>															
Ant.1	State3&8	QPSK	Front Side	10	23230	782	1	High	0.06	0.284	23.37	24.50	1.297	0.368	/

	State3&8		Back Side	10	23230	782	1	High	-0.01	0.308	23.37	24.50	1.297	0.399	/
	State3&8		Right Edge	10	23230	782	1	High	-0.01	0.565	23.37	24.50	1.297	<b>0.733</b>	33#
	State3&8		Front Side	10	23230	782	25	High	0.09	0.208	21.86	23.50	1.459	0.303	/
	State3&8		Back Side	10	23230	782	25	High	-0.09	0.221	21.86	23.50	1.459	0.322	/
	State3&8		Right Edge	10	23230	782	25	High	0.02	0.385	21.86	23.50	1.459	0.562	/
	State3&8		Back Side	10	23230	782	25	High	0.00	0.230	21.86	23.50	1.459	0.336	/
Ant.0	State3&8	QPSK	Front Side	10	23230	782	1	High	0.05	0.141	23.20	24.50	1.349	0.190	/
	State3&8		Back Side	10	23230	782	1	High	0.01	0.197	23.20	24.50	1.349	0.266	/
	State3&8		Left Edge	10	23230	782	1	High	-0.09	0.121	23.20	24.50	1.349	0.163	/
	State3&8		Right Edge	10	23230	782	1	High	0.07	0.203	23.20	24.50	1.349	0.274	/
	State3&8		Bottom Edge	10	23230	782	1	High	-0.06	0.167	23.20	24.50	1.349	0.225	/
	State3&8		Front Side	10	23230	782	25	Mid	-0.01	0.099	21.67	23.50	1.524	0.151	/
	State3&8		Back Side	10	23230	782	25	Mid	-0.01	0.142	21.67	23.50	1.524	0.216	/
	State3&8		Left Edge	10	23230	782	25	Mid	0.04	0.084	21.67	23.50	1.524	0.128	/
	State3&8		Right Edge	10	23230	782	25	Mid	-0.09	0.135	21.67	23.50	1.524	0.206	/
	State3&8		Bottom Edge	10	23230	782	25	Mid	0.07	0.122	21.67	23.50	1.524	0.186	/

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	State5&10	QPSK	Left Cheek	0	23780	709	1	High	-0.02	0.427	23.48	24.50	1.265	<b>0.540</b>	34#
	State5&10		Left Tilt	0	23780	709	1	High	0.00	0.051	23.48	24.50	1.265	0.065	/
	State5&10		Right Cheek	0	23780	709	1	High	0.11	0.231	23.48	24.50	1.265	0.292	/
	State5&10		Right Tilt	0	23780	709	1	High	-0.03	0.024	23.48	24.50	1.265	0.030	/
	State5&10		Left Cheek	0	23790	710	25	Mid	0.10	0.319	21.92	23.50	1.439	0.459	/
	State5&10		Left Tilt	0	23790	710	25	Mid	-0.05	0.042	21.92	23.50	1.439	0.060	/
	State5&10		Right Cheek	0	23790	710	25	Mid	-0.01	0.175	21.92	23.50	1.439	0.252	/
	State5&10		Right Tilt	0	23790	710	25	Mid	-0.03	0.019	21.92	23.50	1.439	0.027	/
Ant.0	State5&10	QPSK	Left Cheek	0	23780	709	1	High	-0.02	0.055	23.28	24.50	1.324	0.073	/
	State5&10		Left Tilt	0	23780	709	1	High	-0.02	0.023	23.28	24.50	1.324	0.030	/
	State5&10		Right Cheek	0	23780	709	1	High	0.06	0.045	23.28	24.50	1.324	0.060	/
	State5&10		Right Tilt	0	23780	709	1	High	0.01	0.018	23.28	24.50	1.324	0.024	/
	State5&10		Left Cheek	0	23800	711	25	High	0.08	0.045	21.73	23.50	1.503	0.068	/
	State5&10		Left Tilt	0	23800	711	25	High	0.07	0.019	21.73	23.50	1.503	0.029	/
	State5&10		Right Cheek	0	23800	711	25	High	-0.08	0.034	21.73	23.50	1.503	0.051	/
	State5&10		Right Tilt	0	23800	711	25	High	0.08	0.011	21.73	23.50	1.503	0.017	/
<b>Body-worn</b>															
Ant.1	State3&8	QPSK	Front Side	15	23780	709	1	High	-0.05	0.106	23.48	24.50	1.265	0.134	/
	State3&8		Back Side	15	23780	709	1	High	-0.04	0.120	23.48	24.50	1.265	<b>0.152</b>	35#
	State3&8		Front Side	15	23790	710	25	Mid	-0.03	0.077	21.92	23.50	1.439	0.111	/
	State3&8		Back Side	15	23790	710	25	Mid	0.02	0.089	21.92	23.50	1.439	0.128	/
Ant.0	State3&8	QPSK	Front Side	15	23780	709	1	High	-0.01	0.073	23.28	24.50	1.324	0.097	/
	State3&8		Back Side	15	23780	709	1	High	-0.10	0.096	23.28	24.50	1.324	0.127	/
	State3&8		Front Side	15	23800	711	25	High	0.05	0.052	21.73	23.50	1.503	0.078	/
	State3&8		Back Side	15	23800	711	25	High	0.07	0.068	21.73	23.50	1.503	0.102	/
<b>Hotspot</b>															
Ant.1	State3&8	QPSK	Front Side	10	23780	709	1	High	-0.03	0.177	23.48	24.50	1.265	0.224	/
	State3&8		Back Side	10	23780	709	1	High	-0.06	0.197	23.48	24.50	1.265	0.249	/
	State3&8		Right Edge	10	23780	709	1	High	-0.01	0.384	23.48	24.50	1.265	<b>0.486</b>	36#
	State3&8		Front Side	10	23790	710	25	Mid	0.06	0.133	21.92	23.50	1.439	0.191	/
	State3&8		Back Side	10	23790	710	25	Mid	0.00	0.144	21.92	23.50	1.439	0.207	/
	State3&8		Right Edge	10	23790	710	25	Mid	-0.05	0.287	21.92	23.50	1.439	0.413	/
Ant.0	State3&8	QPSK	Front Side	10	23780	709	1	High	0.09	0.063	23.28	24.50	1.324	0.083	/
	State3&8		Back Side	10	23780	709	1	High	0.07	0.099	23.28	24.50	1.324	0.131	/
	State3&8		Left Edge	10	23780	709	1	High	0.10	0.078	23.28	24.50	1.324	0.103	/
	State3&8		Right Edge	10	23780	709	1	High	0.09	0.097	23.28	24.50	1.324	0.128	/

State3&8		Bottom Edge	10	23780	709	1	High	0.01	0.009	23.28	24.50	1.324	0.012	/
State3&8		Front Side	10	23800	711	25	High	-0.06	0.049	21.73	23.50	1.503	0.074	/
State3&8		Back Side	10	23800	711	25	High	0.11	0.071	21.73	23.50	1.503	0.107	/
State3&8		Left Edge	10	23800	711	25	High	0.07	0.055	21.73	23.50	1.503	0.083	/
State3&8		Right Edge	10	23800	711	25	High	0.05	0.068	21.73	23.50	1.503	0.102	/
State3&8		Bottom Edge	10	23800	711	25	High	0.02	0.007	21.73	23.50	1.503	0.011	/

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	State5&10	QPSK	Left Cheek	0	26865	831.5	1	Low	-0.03	0.304	22.86	24.00	1.300	<b>0.395</b>	37#
	State5&10		Left Tilt	0	26865	831.5	1	Low	0.11	0.056	22.86	24.00	1.300	0.073	/
	State5&10		Right Cheek	0	26865	831.5	1	Low	-0.07	0.228	22.86	24.00	1.300	0.296	/
	State5&10		Right Tilt	0	26865	831.5	1	Low	-0.06	0.029	22.86	24.00	1.300	0.038	/
	State5&10		Left Cheek	0	26765	821.5	36	High	0.03	0.268	21.80	23.00	1.318	0.353	/
	State5&10		Left Tilt	0	26765	821.5	36	High	-0.08	0.048	21.80	23.00	1.318	0.063	/
	State5&10		Right Cheek	0	26765	821.5	36	High	0.10	0.143	21.80	23.00	1.318	0.188	/
	State5&10		Right Tilt	0	26765	821.5	36	High	0.06	0.021	21.80	23.00	1.318	0.028	/
Ant.0	State5&10	QPSK	Left Cheek	0	26865	831.5	1	Low	-0.04	0.146	22.67	24.00	1.358	0.198	/
	State5&10		Left Tilt	0	26865	831.5	1	Low	-0.05	0.080	22.67	24.00	1.358	0.109	/
	State5&10		Right Cheek	0	26865	831.5	1	Low	-0.01	0.126	22.67	24.00	1.358	0.171	/
	State5&10		Right Tilt	0	26865	831.5	1	Low	0.01	0.069	22.67	24.00	1.358	0.094	/
	State5&10		Left Cheek	0	26865	831.5	36	Low	0.04	0.120	21.60	23.00	1.380	0.166	/
	State5&10		Left Tilt	0	26865	831.5	36	Low	-0.08	0.066	21.60	23.00	1.380	0.091	/
	State5&10		Right Cheek	0	26865	831.5	36	Low	0.05	0.104	21.60	23.00	1.380	0.144	/
	State5&10		Right Tilt	0	26865	831.5	36	Low	0.04	0.057	21.60	23.00	1.380	0.079	/
<b>Body-worn</b>															
Ant.1	State3&8	QPSK	Front Side	15	26865	831.5	1	Low	0.00	0.052	22.86	24.00	1.300	0.068	/
	State3&8		Back Side	15	26865	831.5	1	Low	0.00	0.058	22.86	24.00	1.300	0.075	/
	State3&8		Front Side	15	26765	821.5	36	High	0.09	0.046	21.80	23.00	1.318	0.061	/
	State3&8		Back Side	15	26765	821.5	36	High	-0.01	0.051	21.80	23.00	1.318	0.067	/
Ant.0	State3&8	QPSK	Front Side	15	26865	831.5	1	Low	-0.03	0.117	22.67	24.00	1.358	0.159	/
	State3&8		Back Side	15	26865	831.5	1	Low	-0.04	0.136	22.67	24.00	1.358	<b>0.185</b>	38#
	State3&8		Front Side	15	26865	831.5	36	Low	0.01	0.095	21.60	23.00	1.380	0.131	/
	State3&8		Back Side	15	26865	831.5	36	Low	0.06	0.111	21.60	23.00	1.380	0.153	/
<b>Hotspot</b>															
Ant.1	State3&8	QPSK	Front Side	10	26865	831.5	1	Low	-0.06	0.322	22.86	24.00	1.300	0.419	/
	State3&8		Back Side	10	26865	831.5	1	Low	-0.10	0.341	22.86	24.00	1.300	0.443	/
	State3&8		Right Edge	10	26865	831.5	1	Low	-0.13	0.597	22.86	24.00	1.300	<b>0.776</b>	39#
	State3&8		Front Side	10	26765	821.5	36	High	-0.04	0.282	21.80	23.00	1.318	0.372	/
	State3&8		Back Side	10	26765	821.5	36	High	0.08	0.301	21.80	23.00	1.318	0.397	/
	State3&8		Right Edge	10	26765	821.5	36	High	-0.02	0.521	21.80	23.00	1.318	0.687	/
Ant.0	State3&8	QPSK	Front Side	10	26865	831.5	1	Low	-0.08	0.115	22.67	24.00	1.358	0.156	/
	State3&8		Back Side	10	26865	831.5	1	Low	0.11	0.183	22.67	24.00	1.358	0.249	/
	State3&8		Left Edge	10	26865	831.5	1	Low	0.00	0.076	22.67	24.00	1.358	0.103	/
	State3&8		Right Edge	10	26865	831.5	1	Low	-0.01	0.112	22.67	24.00	1.358	0.152	/

State3&8	Bottom Edge	10	26865	831.5	1	Low	-0.07	0.150	22.67	24.00	1.358	0.204	/
State3&8	Front Side	10	26865	831.5	36	Low	-0.02	0.096	21.60	23.00	1.380	0.132	/
State3&8	Back Side	10	26865	831.5	36	Low	-0.06	0.153	21.60	23.00	1.380	0.211	/
State3&8	Left Edge	10	26865	831.5	36	Low	0.09	0.062	21.60	23.00	1.380	0.086	/
State3&8	Right Edge	10	26865	831.5	36	Low	0.11	0.092	21.60	23.00	1.380	0.127	/
State3&8	Bottom Edge	10	26865	831.5	36	Low	-0.03	0.128	21.60	23.00	1.380	0.177	/

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 SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
<b>Head</b>															
Ant.3	State5	QPSK	Left Cheek	0	132322	1745	1	High	0.02	0.355	18.58	19.25	1.167	0.414	/
	State5		Left Tilt	0	132322	1745	1	High	-0.08	0.402	18.58	19.25	1.167	0.469	/
	State5		Right Cheek	0	132322	1745	1	High	0.00	0.567	18.58	19.25	1.167	0.662	/
	State5		Right Tilt	0	132322	1745	1	High	0.01	0.623	18.58	19.25	1.167	<b>0.727</b>	40#
	State5		Left Cheek	0	132072	1720	50	High	0.09	0.352	18.61	19.25	1.159	0.408	/
	State5		Left Tilt	0	132072	1720	50	High	0.01	0.396	18.61	19.25	1.159	0.459	/
	State5		Right Cheek	0	132072	1720	50	High	0.05	0.562	18.61	19.25	1.159	0.651	/
	State5		Right Tilt	0	132072	1720	50	High	-0.05	0.625	18.61	19.25	1.159	0.724	/
Ant.3	State10	QPSK	Left Cheek	0	132072	1720	1	Mid	-0.04	0.280	17.55	18.25	1.175	0.329	/
	State10		Left Tilt	0	132072	1720	1	Mid	0.00	0.319	17.55	18.25	1.175	0.375	/
	State10		Right Cheek	0	132072	1720	1	Mid	0.10	0.452	17.55	18.25	1.175	0.531	/
	State10		Right Tilt	0	132072	1720	1	Mid	-0.04	0.493	17.55	18.25	1.175	0.579	/
	State10		Left Cheek	0	132072	1720	50	High	-0.02	0.280	17.62	18.25	1.156	0.324	/
	State10		Left Tilt	0	132072	1720	50	High	-0.03	0.316	17.62	18.25	1.156	0.365	/
	State10		Right Cheek	0	132072	1720	50	High	0.04	0.447	17.62	18.25	1.156	0.517	/
	State10		Right Tilt	0	132072	1720	50	High	0.09	0.492	17.62	18.25	1.156	0.569	/
Ant.0	State5&10	QPSK	Left Cheek	0	132072	1720	1	High	0.09	0.089	23.23	24.00	1.194	0.106	/
	State5&10		Left Tilt	0	132072	1720	1	High	-0.07	0.043	23.23	24.00	1.194	0.051	/
	State5&10		Right Cheek	0	132072	1720	1	High	0.06	0.079	23.23	24.00	1.194	0.094	/
	State5&10		Right Tilt	0	132072	1720	1	High	-0.08	0.036	23.23	24.00	1.194	0.043	/
	State5&10		Left Cheek	0	132322	1745	50	High	0.07	0.081	22.16	23.00	1.213	0.098	/
	State5&10		Left Tilt	0	132322	1745	50	High	0.07	0.035	22.16	23.00	1.213	0.042	/
	State5&10		Right Cheek	0	132322	1745	50	High	-0.04	0.074	22.16	23.00	1.213	0.090	/
	State5&10		Right Tilt	0	132322	1745	50	High	-0.01	0.028	22.16	23.00	1.213	0.034	/
<b>Body-worn</b>															
Ant.3	State3	QPSK	Front Side	15	132072	1720	1	High	-0.07	0.233	22.15	23.00	1.216	0.283	/
	State3		Back Side	15	132072	1720	1	High	-0.01	0.259	22.15	23.00	1.216	0.315	/
	State3		Front Side	15	132072	1720	50	High	-0.01	0.237	22.09	23.00	1.233	0.292	/
	State3		Back Side	15	132072	1720	50	High	0.11	0.261	22.09	23.00	1.233	<b>0.322</b>	41#
Ant.3	State8	QPSK	Front Side	15	132072	1720	1	High	-0.06	0.205	21.59	22.50	1.233	0.253	/
	State8		Back Side	15	132072	1720	1	High	-0.01	0.228	21.59	22.50	1.233	0.281	/
	State8		Front Side	15	132072	1720	50	High	0.07	0.210	21.63	22.50	1.222	0.257	/
	State8		Back Side	15	132072	1720	50	High	0.03	0.231	21.63	22.50	1.222	0.282	/
Ant.0	State3	QPSK	Front Side	15	132572	1770	1	High	-0.09	0.123	20.80	21.50	1.175	0.145	/
	State3		Back Side	15	132572	1770	1	High	-0.02	0.227	20.80	21.50	1.175	0.267	/
	State3		Front Side	15	132322	1745	50	High	0.06	0.125	20.71	21.50	1.199	0.150	/

	State3		Back Side	15	132322	1745	50	High	0.10	0.230	20.71	21.50	1.199	0.276	/
Ant.0	State8	QPSK	Front Side	15	132572	1770	1	Mid	0.02	0.114	20.45	21.25	1.202	0.137	/
	State8		Back Side	15	132572	1770	1	Mid	0.10	0.215	20.45	21.25	1.202	0.258	/
	State8		Front Side	15	132322	1745	50	High	-0.10	0.116	20.47	21.25	1.197	0.139	/
	State8		Back Side	15	132322	1745	50	High	0.01	0.216	20.47	21.25	1.197	0.259	/
<b>Hotspot</b>															
Ant.3	State3	QPSK	Front Side	10	132072	1720	1	High	-0.03	0.330	22.15	23.00	1.216	0.401	/
	State3		Back Side	10	132072	1720	1	High	0.02	0.376	22.15	23.00	1.216	0.457	/
	State3		Right Edge	10	132072	1720	1	High	-0.04	0.117	22.15	23.00	1.216	0.142	/
	State3		Top Edge	10	132072	1720	1	High	0.00	0.500	22.15	23.00	1.216	<b>0.608</b>	42#
	State3		Front Side	10	132072	1720	50	High	0.00	0.335	22.09	23.00	1.233	0.413	/
	State3		Back Side	10	132072	1720	50	High	0.03	0.367	22.09	23.00	1.233	0.453	/
	State3		Right Edge	10	132072	1720	50	High	0.07	0.119	22.09	23.00	1.233	0.147	/
	State3		Top Edge	10	132072	1720	50	High	0.00	0.486	22.09	23.00	1.233	0.599	/
Ant.3	State8	QPSK	Front Side	10	132072	1720	1	High	0.04	0.296	21.59	22.50	1.233	0.365	/
	State8		Back Side	10	132072	1720	1	High	-0.02	0.338	21.59	22.50	1.233	0.417	/
	State8		Right Edge	10	132072	1720	1	High	0.04	0.103	21.59	22.50	1.233	0.127	/
	State8		Top Edge	10	132072	1720	1	High	-0.09	0.447	21.59	22.50	1.233	0.551	/
	State8		Front Side	10	132072	1720	50	High	0.11	0.295	21.63	22.50	1.222	0.360	/
	State8		Back Side	10	132072	1720	50	High	0.08	0.324	21.63	22.50	1.222	0.396	/
	State8		Right Edge	10	132072	1720	50	High	0.03	0.108	21.63	22.50	1.222	0.132	/
	State8		Top Edge	10	132072	1720	50	High	0.03	0.438	21.63	22.50	1.222	0.535	/
Ant.0	State3	QPSK	Front Side	10	132572	1770	1	High	-0.05	0.191	20.80	21.50	1.175	0.224	/
	State3		Back Side	10	132572	1770	1	High	-0.04	0.367	20.80	21.50	1.175	0.431	/
	State3		Left Edge	10	132572	1770	1	High	0.03	0.067	20.80	21.50	1.175	0.079	/
	State3		Right Edge	10	132572	1770	1	High	0.07	0.028	20.80	21.50	1.175	0.033	/
	State3		Bottom Edge	10	132572	1770	1	High	0.02	0.394	20.80	21.50	1.175	0.463	/
	State3		Front Side	10	132322	1745	50	High	0.05	0.190	20.71	21.50	1.199	0.228	/
	State3		Back Side	10	132322	1745	50	High	0.10	0.374	20.71	21.50	1.199	0.448	/
	State3		Left Edge	10	132322	1745	50	High	0.03	0.069	20.71	21.50	1.199	0.083	/
	State3		Right Edge	10	132322	1745	50	High	0.03	0.029	20.71	21.50	1.199	0.035	/
	State3		Bottom Edge	10	132322	1745	50	High	0.01	0.378	20.71	21.50	1.199	0.453	/
Ant.0	State8	QPSK	Front Side	10	132572	1770	1	Mid	0.09	0.179	20.45	21.25	1.202	0.215	/
	State8		Back Side	10	132572	1770	1	Mid	-0.01	0.345	20.45	21.25	1.202	0.415	/
	State8		Left Edge	10	132572	1770	1	Mid	-0.01	0.062	20.45	21.25	1.202	0.075	/
	State8		Right Edge	10	132572	1770	1	Mid	-0.04	0.026	20.45	21.25	1.202	0.031	/
	State8		Bottom Edge	10	132572	1770	1	Mid	0.10	0.370	20.45	21.25	1.202	0.445	/
	State8		Front Side	10	132322	1745	50	High	0.00	0.179	20.47	21.25	1.197	0.214	/
	State8		Back Side	10	132322	1745	50	High	-0.09	0.351	20.47	21.25	1.197	0.420	/
	State8		Left Edge	10	132322	1745	50	High	0.02	0.063	20.47	21.25	1.197	0.075	/
	State8		Right Edge	10	132322	1745	50	High	-0.03	0.027	20.47	21.25	1.197	0.032	/
	State8		Bottom Edge	10	132322	1745	50	High	0.07	0.368	20.47	21.25	1.197	0.440	/

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.3	State5	QPSK	Left Cheek	0	37850	2580	1	Mid	0.04	0.288	18.93	20.00	1.279	0.368	/
	State5		Left Tilt	0	37850	2580	1	Mid	-0.02	0.328	18.93	20.00	1.279	0.420	/
	State5		Right Cheek	0	37850	2580	1	Mid	0.09	0.602	18.93	20.00	1.279	0.770	/
	State5		Right Tilt	0	37850	2580	1	Mid	0.03	0.762	18.93	20.00	1.279	0.975	/
	State5		Left Cheek	0	37850	2580	50	Low	0.11	0.288	18.88	20.00	1.294	0.373	/
	State5		Left Tilt	0	37850	2580	50	Low	-0.01	0.337	18.88	20.00	1.294	0.436	/
	State5		Right Cheek	0	37850	2580	50	Low	-0.02	0.599	18.88	20.00	1.294	0.775	/
	State5		Right Tilt	0	37850	2580	50	Low	-0.07	0.784	18.88	20.00	1.294	1.014	/
	State5		Right Tilt	0	38000	2595	1	High	0.10	0.718	18.84	20.00	1.306	0.938	/
	State5		Right Tilt	0	38150	2610	1	Low	0.02	0.852	18.72	20.00	1.343	1.144	43#
	State5		Right Tilt	0	38000	2595	50	High	0.05	0.740	18.86	20.00	1.300	0.962	/
	State5		Right Tilt	0	38150	2610	50	Mid	0.06	0.844	18.73	20.00	1.340	1.131	/
	State5		Right Tilt	0	38000	2595	100	Low	0.08	0.799	18.78	20.00	1.324	1.058	/
Ant.3	State10	QPSK	Left Cheek	0	37850	2580	1	Low	-0.07	0.273	18.79	19.75	1.247	0.340	/
	State10		Left Tilt	0	37850	2580	1	Low	-0.01	0.314	18.79	19.75	1.247	0.392	/
	State10		Right Cheek	0	37850	2580	1	Low	0.03	0.572	18.79	19.75	1.247	0.713	/
	State10		Right Tilt	0	37850	2580	1	Low	-0.09	0.725	18.79	19.75	1.247	0.904	/
	State10		Left Cheek	0	38000	2595	50	Low	0.11	0.273	18.64	19.75	1.291	0.352	/
	State10		Left Tilt	0	38000	2595	50	Low	0.02	0.320	18.64	19.75	1.291	0.413	/
	State10		Right Cheek	0	38000	2595	50	Low	0.03	0.571	18.64	19.75	1.291	0.737	/
	State10		Right Tilt	0	38000	2595	50	Low	0.02	0.750	18.64	19.75	1.291	0.968	/
	State10		Right Tilt	0	38000	2595	1	Mid	-0.03	0.693	18.72	19.75	1.268	0.879	/
	State10		Right Tilt	0	38150	2610	1	Low	0.00	0.801	18.73	19.75	1.265	1.013	/
	State10		Right Tilt	0	37850	2580	50	High	0.08	0.726	18.62	19.75	1.297	0.942	/
	State10		Right Tilt	0	38150	2610	50	High	-0.04	0.800	18.61	19.75	1.300	1.040	/
	State10		Right Tilt	0	38000	2595	100	Low	0.03	0.776	18.75	19.75	1.259	0.977	/
Ant.4	State5&10	QPSK	Left Cheek	0	37850	2580	1	Mid	0.05	0.059	22.07	23.00	1.239	0.073	/
	State5&10		Left Tilt	0	37850	2580	1	Mid	0.09	0.055	22.07	23.00	1.239	0.068	/
	State5&10		Right Cheek	0	37850	2580	1	Mid	0.03	0.154	22.07	23.00	1.239	0.191	/
	State5&10		Right Tilt	0	37850	2580	1	Mid	-0.06	0.082	22.07	23.00	1.239	0.102	/
	State5&10		Left Cheek	0	38000	2595	50	Mid	-0.01	0.039	21.01	22.00	1.256	0.049	/
	State5&10		Left Tilt	0	38000	2595	50	Mid	0.02	0.029	21.01	22.00	1.256	0.036	/
	State5&10		Right Cheek	0	38000	2595	50	Mid	-0.03	0.123	21.01	22.00	1.256	0.154	/
	State5&10		Right Tilt	0	38000	2595	50	Mid	0.05	0.061	21.01	22.00	1.256	0.077	/
Ant.0	State5&10	QPSK	Left Cheek	0	37850	2580	1	Mid	-0.02	0.119	23.60	24.00	1.096	0.130	/
	State5&10		Left Tilt	0	37850	2580	1	Mid	0.11	0.049	23.60	24.00	1.096	0.054	/

	State5&10		Right Cheek	0	37850	2580	1	Mid	-0.10	0.051	23.60	24.00	1.096	0.056	/
	State5&10		Right Tilt	0	37850	2580	1	Mid	0.08	0.028	23.60	24.00	1.096	0.031	/
	State5&10		Left Cheek	0	38000	2595	50	Mid	0.07	0.094	22.52	23.00	1.117	0.105	/
	State5&10		Left Tilt	0	38000	2595	50	Mid	0.10	0.042	22.52	23.00	1.117	0.047	/
	State5&10		Right Cheek	0	38000	2595	50	Mid	-0.08	0.035	22.52	23.00	1.117	0.039	/
	State5&10		Right Tilt	0	38000	2595	50	Mid	-0.03	0.021	22.52	23.00	1.117	0.023	/
<b>Body-worn</b>															
Ant.3	State3	QPSK	Front Side	15	38150	2610	1	Low	-0.06	0.052	20.71	21.75	1.271	0.066	/
	State3		Back Side	15	38150	2610	1	Low	-0.10	0.051	20.71	21.75	1.271	0.065	/
	State3		Front Side	15	38000	2595	50	Mid	-0.02	0.052	20.74	21.75	1.262	0.066	/
	State3		Back Side	15	38000	2595	50	Mid	-0.08	0.054	20.74	21.75	1.262	0.068	/
Ant.3	State8	QPSK	Front Side	15	37850	2580	1	Mid	-0.06	0.049	20.35	21.50	1.303	0.064	/
	State8		Back Side	15	37850	2580	1	Mid	-0.09	0.048	20.35	21.50	1.303	0.063	/
	State8		Front Side	15	37850	2580	50	Low	-0.01	0.047	20.31	21.50	1.315	0.062	/
	State8		Back Side	15	37850	2580	50	Low	0.10	0.047	20.31	21.50	1.315	0.062	/
Ant.4	State3	QPSK	Front Side	15	38000	2595	1	Mid	0.07	0.025	20.85	21.75	1.230	0.031	/
	State3		Back Side	15	38000	2595	1	Mid	0.02	0.059	20.85	21.75	1.230	0.073	/
	State3		Front Side	15	38000	2595	50	High	0.05	0.024	20.85	21.75	1.230	0.030	/
	State3		Back Side	15	38000	2595	50	High	-0.08	0.057	20.85	21.75	1.230	0.070	/
Ant.4	State8	QPSK	Front Side	15	37850	2580	1	Mid	0.01	0.023	20.65	21.50	1.216	0.028	/
	State8		Back Side	15	37850	2580	1	Mid	-0.02	0.056	20.65	21.50	1.216	0.068	/
	State8		Front Side	15	38000	2595	50	Low	0.06	0.022	20.55	21.50	1.245	0.027	/
	State8		Back Side	15	38000	2595	50	Low	0.09	0.055	20.55	21.50	1.245	0.068	/
Ant.0	State3&8	QPSK	Front Side	15	37850	2580	1	Mid	-0.08	0.119	23.60	24.00	1.096	<b>0.130</b>	44#
	State3&8		Back Side	15	37850	2580	1	Mid	0.02	0.117	23.60	24.00	1.096	0.128	/
	State3&8		Front Side	15	38000	2595	50	Mid	0.02	0.090	22.52	23.00	1.117	0.101	/
	State3&8		Back Side	15	38000	2595	50	Mid	-0.07	0.087	22.52	23.00	1.117	0.097	/
<b>Hotspot</b>															
Ant.3	State3	QPSK	Front Side	10	38150	2610	1	Low	-0.09	0.190	20.71	21.75	1.271	0.241	/
	State3		Back Side	10	38150	2610	1	Low	-0.05	0.208	20.71	21.75	1.271	0.264	/
	State3		Right Edge	10	38150	2610	1	Low	0.01	0.082	20.71	21.75	1.271	0.104	/
	State3		Top Edge	10	38150	2610	1	Low	0.00	0.333	20.71	21.75	1.271	<b>0.423</b>	45#
	State3		Front Side	10	38000	2595	50	Mid	-0.05	0.182	20.74	21.75	1.262	0.230	/
	State3		Back Side	10	38000	2595	50	Mid	0.01	0.199	20.74	21.75	1.262	0.251	/
	State3		Right Edge	10	38000	2595	50	Mid	-0.05	0.086	20.74	21.75	1.262	0.109	/
	State3		Top Edge	10	38000	2595	50	Mid	0.10	0.324	20.74	21.75	1.262	0.409	/
Ant.3	State8	QPSK	Front Side	10	37850	2580	1	Mid	0.10	0.178	20.35	21.50	1.303	0.232	/
	State8		Back Side	10	37850	2580	1	Mid	0.03	0.195	20.35	21.50	1.303	0.254	/
	State8		Right Edge	10	37850	2580	1	Mid	-0.05	0.077	20.35	21.50	1.303	0.100	/
	State8		Top Edge	10	37850	2580	1	Mid	-0.08	0.315	20.35	21.50	1.303	0.410	/
	State8		Front Side	10	37850	2580	50	Low	0.10	0.173	20.31	21.50	1.315	0.227	/
	State8		Back Side	10	37850	2580	50	Low	-0.06	0.188	20.31	21.50	1.315	0.247	/

	State8		Right Edge	10	37850	2580	50	Low	0.08	0.080	20.31	21.50	1.315	0.105	/		
	State8		Top Edge	10	37850	2580	50	Low	-0.09	0.306	20.31	21.50	1.315	0.402	/		
Ant.4	State3	QPSK	Front Side	10	38000	2595	1	Mid	0.10	0.056	20.85	21.75	1.230	0.069	/		
	State3		Back Side	10	38000	2595	1	Mid	0.10	0.159	20.85	21.75	1.230	0.196	/		
	State3		Right Edge	10	38000	2595	1	Mid	0.11	0.080	20.85	21.75	1.230	0.098	/		
	State3		Top Edge	10	38000	2595	1	Mid	-0.07	0.019	20.85	21.75	1.230	0.023	/		
	State3		Front Side	10	38000	2595	50	High	0.00	0.052	20.85	21.75	1.230	0.064	/		
	State3		Back Side	10	38000	2595	50	High	0.05	0.153	20.85	21.75	1.230	0.188	/		
	State3		Right Edge	10	38000	2595	50	High	-0.04	0.078	20.85	21.75	1.230	0.096	/		
	State3		Top Edge	10	38000	2595	50	High	0.01	0.017	20.85	21.75	1.230	0.021	/		
	Ant.4		State8	QPSK	Front Side	10	37850	2580	1	Mid	-0.06	0.052	20.65	21.50	1.216	0.063	/
			State8		Back Side	10	37850	2580	1	Mid	0.01	0.149	20.65	21.50	1.216	0.181	/
State8		Right Edge	10		37850	2580	1	Mid	0.07	0.076	20.65	21.50	1.216	0.092	/		
State8		Top Edge	10		37850	2580	1	Mid	-0.02	0.018	20.65	21.50	1.216	0.022	/		
State8		Front Side	10		38000	2595	50	Low	-0.01	0.049	20.55	21.50	1.245	0.061	/		
State8		Back Side	10		38000	2595	50	Low	-0.08	0.145	20.55	21.50	1.245	0.181	/		
State8		Right Edge	10		38000	2595	50	Low	-0.02	0.073	20.55	21.50	1.245	0.091	/		
State8		Top Edge	10		38000	2595	50	Low	-0.02	0.016	20.55	21.50	1.245	0.020	/		
Ant.0	State3&8	QPSK	Front Side	10	37850	2580	1	Mid	-0.09	0.141	23.60	24.00	1.096	0.155	/		
	State3&8		Back Side	10	37850	2580	1	Mid	-0.09	0.138	23.60	24.00	1.096	0.151	/		
	State3&8		Left Edge	10	37850	2580	1	Mid	0.01	0.005	23.60	24.00	1.096	0.005	/		
	State3&8		Right Edge	10	37850	2580	1	Mid	0.01	0.110	23.60	24.00	1.096	0.121	/		
	State3&8		Bottom Edge	10	37850	2580	1	Mid	0.07	0.092	23.60	24.00	1.096	0.101	/		
	State3&8		Front Side	10	38000	2595	50	Mid	-0.01	0.108	22.52	23.00	1.117	0.121	/		
	State3&8		Back Side	10	38000	2595	50	Mid	-0.02	0.100	22.52	23.00	1.117	0.112	/		
	State3&8		Left Edge	10	38000	2595	50	Mid	0.08	0.005	22.52	23.00	1.117	0.006	/		
	State3&8		Right Edge	10	38000	2595	50	Mid	0.00	0.087	22.52	23.00	1.117	0.097	/		
	State3&8		Bottom Edge	10	38000	2595	50	Mid	0.10	0.067	22.52	23.00	1.117	0.075	/		

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.3	State5	QPSK	Right Tilt	0	38150 +37952	2610 +2590.2	1+1	Low +High	-0.01	0.796	18.64	20.00	1.368	1.089	/
<b>Body-worn-CA</b>															
Ant.0	State3&8	QPSK	Front Side	15	37850 +38048	2580 +2599.8	1+1	High +Low	0.05	0.108	23.27	24.00	1.183	0.128	/
<b>Hotspot-CA</b>															
Ant.3	State3	QPSK	Top Edge	10	38150 +37952	2610 +2590.2	1+1	Low +High	0.03	0.318	20.70	21.75	1.274	0.405	/
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.3	State5	QPSK	Left Cheek	0	40620	2593	1	Mid	-0.05	0.289	19.27	20.00	1.183	0.342	/
	State5		Left Tilt	0	40620	2593	1	Mid	-0.04	0.361	19.27	20.00	1.183	0.427	/
	State5		Right Cheek	0	40620	2593	1	Mid	0.05	0.674	19.27	20.00	1.183	0.797	/
	State5		Right Tilt	0	40620	2593	1	Mid	-0.04	0.812	19.27	20.00	1.183	0.961	/
	State5		Left Cheek	0	40620	2593	50	High	0.00	0.265	18.71	20.00	1.346	0.357	/
	State5		Left Tilt	0	40620	2593	50	High	0.07	0.326	18.71	20.00	1.346	0.439	/
	State5		Right Cheek	0	40620	2593	50	High	0.02	0.592	18.71	20.00	1.346	0.797	/
	State5		Right Tilt	0	40620	2593	50	High	-0.04	0.740	18.71	20.00	1.346	0.996	/
	State5		Right Tilt	0	39750	2506	1	Low	0.03	0.582	19.21	20.00	1.199	0.698	/
	State5		Right Tilt	0	40185	2549.5	1	Low	-0.09	0.708	19.17	20.00	1.211	0.857	/
	State5		Right Tilt	0	41055	2636.5	1	Low	0.02	0.931	19.25	20.00	1.189	<b>1.107</b>	46#
	State5		Right Tilt	0	41490	2680	1	Low	0.04	0.808	18.79	20.00	1.321	1.067	/
	State5		Right Tilt	0	39750	2506	50	High	0.00	0.753	18.69	20.00	1.352	1.018	/
	State5		Right Tilt	0	40185	2549.5	50	Low	0.10	0.759	18.66	20.00	1.361	1.033	/
	State5		Right Tilt	0	41055	2636.5	50	Low	0.08	0.774	18.59	20.00	1.384	1.071	/
	State5		Right Tilt	0	41490	2680	50	Low	0.02	0.755	18.58	20.00	1.387	1.047	/
	State5		Right Tilt	0	41490	2680	100	Low	0.04	0.689	18.55	20.00	1.396	0.962	/
	Ant.3		State10	QPSK	Left Cheek	0	40620	2593	1	Low	-0.05	0.257	18.81	19.50	1.172
State10		Left Tilt	0		40620	2593	1	Low	-0.02	0.319	18.81	19.50	1.172	0.374	/
State10		Right Cheek	0		40620	2593	1	Low	0.08	0.571	18.81	19.50	1.172	0.669	/
State10		Right Tilt	0		40620	2593	1	Low	-0.10	0.679	18.81	19.50	1.172	0.796	/
State10		Left Cheek	0		39750	2506	50	Low	-0.10	0.236	18.17	19.50	1.358	0.320	/
State10		Left Tilt	0		39750	2506	50	Low	-0.08	0.291	18.17	19.50	1.358	0.395	/
State10		Right Cheek	0		39750	2506	50	Low	-0.08	0.504	18.17	19.50	1.358	0.684	/
State10		Right Tilt	0		39750	2506	50	Low	-0.08	0.616	18.17	19.50	1.358	0.837	/
State10		Right Tilt	0		39750	2506	1	High	0.03	0.525	18.78	19.50	1.180	0.620	/
State10		Right Tilt	0		40185	2549.5	1	Low	0.04	0.633	18.65	19.50	1.216	0.770	/
State10		Right Tilt	0		41055	2636.5	1	Low	0.00	0.813	18.61	19.50	1.227	0.998	/
State10		Right Tilt	0		41490	2680	1	Low	0.11	0.706	18.41	19.50	1.285	0.907	/
State10		Right Tilt	0		40185	2549.5	50	High	-0.09	0.668	18.07	19.50	1.390	0.929	/
State10		Right Tilt	0		40620	2593	50	High	-0.04	0.674	18.10	19.50	1.380	0.930	/
State10		Right Tilt	0		41055	2636.5	50	High	0.01	0.687	18.08	19.50	1.387	0.953	/
State10		Right Tilt	0		41490	2680	50	High	0.07	0.672	17.85	19.50	1.462	0.982	/
State10	Right Tilt	0	39750	2506	100	Low	-0.09	0.620	18.11	19.50	1.377	0.854	/		
Ant.4	State3&8	QPSK	Left Cheek	0	39750	2506	1	High	0.01	0.063	22.67	23.00	1.079	0.068	/
	State3&8		Left Tilt	0	39750	2506	1	High	-0.03	0.059	22.67	23.00	1.079	0.064	/

	State3&8		Right Cheek	0	39750	2506	1	High	-0.07	0.167	22.67	23.00	1.079	0.180	/
	State3&8		Right Tilt	0	39750	2506	1	High	0.04	0.089	22.67	23.00	1.079	0.096	/
	State3&8		Left Cheek	0	39750	2506	50	High	0.00	0.052	21.15	22.00	1.216	0.063	/
	State3&8		Left Tilt	0	39750	2506	50	High	0.04	0.051	21.15	22.00	1.216	0.062	/
	State3&8		Right Cheek	0	39750	2506	50	High	-0.10	0.135	21.15	22.00	1.216	0.164	/
	State3&8		Right Tilt	0	39750	2506	50	High	0.07	0.066	21.15	22.00	1.216	0.080	/
Ant.0	State3&8	QPSK	Left Cheek	0	40620	2593	1	Mid	-0.01	0.109	24.02	24.50	1.117	0.122	/
	State3&8		Left Tilt	0	40620	2593	1	Mid	0.03	0.061	24.02	24.50	1.117	0.068	/
	State3&8		Right Cheek	0	40620	2593	1	Mid	-0.01	0.054	24.02	24.50	1.117	0.060	/
	State3&8		Right Tilt	0	40620	2593	1	Mid	0.07	0.030	24.02	24.50	1.117	0.034	/
	State3&8		Left Cheek	0	40620	2593	50	Low	-0.10	0.075	22.46	23.50	1.271	0.095	/
	State3&8		Left Tilt	0	40620	2593	50	Low	0.10	0.068	22.46	23.50	1.271	0.086	/
	State3&8		Right Cheek	0	40620	2593	50	Low	-0.08	0.039	22.46	23.50	1.271	0.050	/
	State3&8		Right Tilt	0	40620	2593	50	Low	0.04	0.024	22.46	23.50	1.271	0.031	/
<b>Body-worn</b>															
Ant.3	State3	QPSK	Front Side	15	40620	2593	1	Mid	0.08	0.071	20.49	21.50	1.262	0.090	/
	State3		Back Side	15	40620	2593	1	Mid	0.03	0.072	20.49	21.50	1.262	0.091	/
	State3		Front Side	15	40620	2593	50	High	0.03	0.066	19.87	21.50	1.455	0.096	/
	State3		Back Side	15	40620	2593	50	High	0.11	0.066	19.87	21.50	1.455	0.096	/
Ant.3	State8	QPSK	Front Side	15	40620	2593	1	High	-0.08	0.068	20.22	21.25	1.268	0.086	/
	State8		Back Side	15	40620	2593	1	High	-0.01	0.068	20.22	21.25	1.268	0.086	/
	State8		Front Side	15	39750	2506	50	Mid	0.08	0.061	19.79	21.25	1.400	0.085	/
	State8		Back Side	15	39750	2506	50	Mid	0.07	0.062	19.79	21.25	1.400	0.087	/
Ant.4	State3	QPSK	Front Side	15	39750	2506	1	High	-0.09	0.034	20.70	21.00	1.072	0.036	/
	State3		Back Side	15	39750	2506	1	High	-0.09	0.081	20.70	21.00	1.072	0.087	/
	State3		Front Side	15	39750	2506	50	High	0.01	0.033	20.15	21.00	1.216	0.040	/
	State3		Back Side	15	39750	2506	50	High	0.01	0.078	20.15	21.00	1.216	0.095	/
Ant.4	State8	QPSK	Front Side	15	39750	2506	1	High	0.04	0.031	19.66	20.75	1.285	0.040	/
	State8		Back Side	15	39750	2506	1	High	0.09	0.077	19.66	20.75	1.285	0.099	/
	State8		Front Side	15	39750	2506	50	High	-0.09	0.031	19.66	20.75	1.285	0.040	/
	State8		Back Side	15	39750	2506	50	High	0.02	0.075	19.66	20.75	1.285	0.096	/
Ant.0	State3&8	QPSK	Front Side	15	40620	2593	1	Mid	0.00	0.166	24.02	24.50	1.117	0.185	/
	State3&8		Back Side	15	40620	2593	1	Mid	0.01	0.170	24.02	24.50	1.117	<b>0.190</b>	47#
	State3&8		Front Side	15	40620	2593	50	Low	-0.09	0.118	22.46	23.50	1.271	0.150	/
	State3&8		Back Side	15	40620	2593	50	Low	-0.02	0.115	22.46	23.50	1.271	0.146	/
<b>Hotspot</b>															
Ant.3	State3	QPSK	Front Side	10	40620	2593	1	Mid	0.02	0.174	20.49	21.50	1.262	0.220	/
	State3		Back Side	10	40620	2593	1	Mid	0.08	0.190	20.49	21.50	1.262	0.240	/
	State3		Right Edge	10	40620	2593	1	Mid	0.10	0.076	20.49	21.50	1.262	0.096	/
	State3		Top Edge	10	40620	2593	1	Mid	-0.05	0.349	20.49	21.50	1.262	<b>0.440</b>	48#
	State3		Front Side	10	40620	2593	50	High	0.03	0.147	19.87	21.50	1.455	0.214	/
	State3		Back Side	10	40620	2593	50	High	-0.06	0.152	19.87	21.50	1.455	0.221	/



	State3		Right Edge	10	40620	2593	50	High	-0.02	0.067	19.87	21.50	1.455	0.097	/
	State3		Top Edge	10	40620	2593	50	High	0.02	0.282	19.87	21.50	1.455	0.410	/
Ant.3	State8	QPSK	Front Side	10	40620	2593	1	High	0.03	0.165	20.22	21.25	1.268	0.209	/
	State8		Back Side	10	40620	2593	1	High	0.08	0.180	20.22	21.25	1.268	0.228	/
	State8		Right Edge	10	40620	2593	1	High	0.08	0.071	20.22	21.25	1.268	0.090	/
	State8		Top Edge	10	40620	2593	1	High	0.09	0.330	20.22	21.25	1.268	0.418	/
	State8		Front Side	10	39750	2506	50	Mid	0.01	0.138	19.79	21.25	1.400	0.193	/
	State8		Back Side	10	39750	2506	50	Mid	0.00	0.143	19.79	21.25	1.400	0.200	/
	State8		Right Edge	10	39750	2506	50	Mid	-0.06	0.063	19.79	21.25	1.400	0.088	/
	State8		Top Edge	10	39750	2506	50	Mid	0.10	0.265	19.79	21.25	1.400	0.371	/
	Ant.4		State3	QPSK	Front Side	10	39750	2506	1	High	-0.08	0.054	20.70	21.00	1.072
State3		Back Side	10		39750	2506	1	High	0.08	0.269	20.70	21.00	1.072	0.288	/
State3		Right Edge	10		39750	2506	1	High	-0.01	0.118	20.70	21.00	1.072	0.126	/
State3		Top Edge	10		39750	2506	1	High	0.04	0.023	20.70	21.00	1.072	0.025	/
State3		Front Side	10		39750	2506	50	High	0.08	0.050	20.15	21.00	1.216	0.061	/
State3		Back Side	10		39750	2506	50	High	0.09	0.258	20.15	21.00	1.216	0.314	/
State3		Right Edge	10		39750	2506	50	High	0.06	0.110	20.15	21.00	1.216	0.134	/
State3		Top Edge	10		39750	2506	50	High	0.06	0.021	20.15	21.00	1.216	0.026	/
Ant.4	State8	QPSK	Front Side	10	39750	2506	1	High	0.00	0.051	19.66	20.75	1.285	0.066	/
	State8		Back Side	10	39750	2506	1	High	0.00	0.254	19.66	20.75	1.285	0.326	/
	State8		Right Edge	10	39750	2506	1	High	0.05	0.111	19.66	20.75	1.285	0.143	/
	State8		Top Edge	10	39750	2506	1	High	0.01	0.022	19.66	20.75	1.285	0.028	/
	State8		Front Side	10	39750	2506	50	High	-0.08	0.047	19.66	20.75	1.285	0.060	/
	State8		Back Side	10	39750	2506	50	High	-0.03	0.244	19.66	20.75	1.285	0.314	/
	State8		Right Edge	10	39750	2506	50	High	-0.02	0.104	19.66	20.75	1.285	0.134	/
	State8		Top Edge	10	39750	2506	50	High	-0.01	0.020	19.66	20.75	1.285	0.026	/
Ant.0	State3&8	QPSK	Front Side	10	40620	2593	1	Mid	0.06	0.206	24.02	24.50	1.117	0.230	/
	State3&8		Back Side	10	40620	2593	1	Mid	0.00	0.196	24.02	24.50	1.117	0.219	/
	State3&8		Left Edge	10	40620	2593	1	Mid	-0.07	0.000	24.02	24.50	1.117	0.000	/
	State3&8		Right Edge	10	40620	2593	1	Mid	0.05	0.170	24.02	24.50	1.117	0.190	/
	State3&8		Bottom Edge	10	40620	2593	1	Mid	0.01	0.130	24.02	24.50	1.117	0.145	/
	State3&8		Front Side	10	40620	2593	50	Low	-0.01	0.139	22.46	23.50	1.271	0.177	/
	State3&8		Back Side	10	40620	2593	50	Low	-0.06	0.128	22.46	23.50	1.271	0.163	/
	State3&8		Left Edge	10	40620	2593	50	Low	-0.02	0.000	22.46	23.50	1.271	0.000	/
	State3&8		Right Edge	10	40620	2593	50	Low	0.06	0.111	22.46	23.50	1.271	0.141	/
	State3&8		Bottom Edge	10	40620	2593	50	Low	0.08	0.090	22.46	23.50	1.271	0.114	/

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.3	State5	QPSK	Right Tilt	0	41055 +41253	2636.5 +2656.3	1+1	High +Low	0.08	0.875	19.04	20.00	1.247	1.091	/
<b>Body-worn-CA</b>															
Ant.0	State3&8	QPSK	Back Side	15	40620 +40818	2593 +2612.8	1+1	High +Low	-0.03	0.161	23.86	24.50	1.159	0.187	/
<b>Hotspot-CA</b>															
Ant.3	State3	QPSK	Top Edge	10	40620 +40818	2593 +2612.8	1+1	High +Low	0.02	0.321	20.25	21.50	1.334	0.428	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

### 11.20 n5 (20MHz 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	State5&10	DFT-s-OFDM	SA	Left Cheek	0	167800	839	1	1	-0.01	0.346	22.82	24.20	1.374	<b>0.475</b>	49#
	State5&10			Left Tilt	0	167800	839	1	1	-0.09	0.046	22.82	24.20	1.374	0.063	/
	State5&10			Right Cheek	0	167800	839	1	1	0.06	0.193	22.82	24.20	1.374	0.265	/
	State5&10			Right Tilt	0	167800	839	1	1	-0.01	0.024	22.82	24.20	1.374	0.033	/
	State5&10	BPSK		Left Cheek	0	167800	839	50	28	-0.07	0.347	22.90	24.20	1.349	0.468	/
	State5&10			Left Tilt	0	167800	839	50	28	0.03	0.048	22.90	24.20	1.349	0.065	/
	State5&10			Right Cheek	0	167800	839	50	28	-0.05	0.191	22.90	24.20	1.349	0.258	/
	State5&10			Right Tilt	0	167800	839	50	28	-0.07	0.024	22.90	24.20	1.349	0.032	/
Ant.0	State5&10	DFT-s-OFDM	SA	Left Cheek	0	166800	834	1	53	-0.05	0.124	22.53	24.20	1.469	0.182	/
	State5&10			Left Tilt	0	166800	834	1	53	0.03	0.070	22.53	24.20	1.469	0.103	/
	State5&10			Right Cheek	0	166800	834	1	53	0.10	0.106	22.53	24.20	1.469	0.156	/
	State5&10			Right Tilt	0	166800	834	1	53	0.02	0.061	22.53	24.20	1.469	0.090	/
	State5&10	BPSK		Left Cheek	0	167800	839	50	28	0.11	0.128	22.65	24.20	1.429	0.183	/
	State5&10			Left Tilt	0	167800	839	50	28	-0.10	0.069	22.65	24.20	1.429	0.099	/
	State5&10			Right Cheek	0	167800	839	50	28	0.07	0.112	22.65	24.20	1.429	0.160	/
	State5&10			Right Tilt	0	167800	839	50	28	-0.03	0.054	22.65	24.20	1.429	0.077	/
<b>Body-worn</b>																
Ant.1	State3&8	DFT-s-OFDM	SA	Front Side	15	167800	839	1	1	-0.03	0.077	22.82	24.20	1.374	0.106	/
	State3&8	s-OFDM		Back Side	15	167800	839	1	1	-0.10	0.079	22.82	24.20	1.374	0.109	/
	State3&8	BPSK		Front Side	15	167800	839	50	28	0.01	0.079	22.90	24.20	1.349	0.107	/
	State3&8			Back Side	15	167800	839	50	28	0.08	0.082	22.90	24.20	1.349	0.111	/
Ant.0	State3&8	DFT-s-OFDM	SA	Front Side	15	166800	834	1	53	-0.06	0.079	22.53	24.20	1.469	0.116	/
	State3&8	s-OFDM		Back Side	15	166800	834	1	53	-0.05	0.111	22.53	24.20	1.469	<b>0.163</b>	50#
	State3&8	BPSK		Front Side	15	167800	839	50	28	0.04	0.074	22.65	24.20	1.429	0.106	/
	State3&8			Back Side	15	167800	839	50	28	-0.03	0.110	22.65	24.20	1.429	0.157	/
<b>Hotspot</b>																
Ant.1	State3&8	DFT-s-OFDM	SA	Front Side	10	167800	839	1	1	0.00	0.123	22.82	24.20	1.374	0.169	/
	State3&8			Back Side	10	167800	839	1	1	0.00	0.122	22.82	24.20	1.374	0.168	/
	State3&8			s-OFDM	Right Edge	10	167800	839	1	1	-0.03	0.214	22.82	24.20	1.374	<b>0.294</b>
	State3&8	BPSK		Front Side	10	167800	839	50	28	-0.05	0.128	22.90	24.20	1.349	0.173	/
	State3&8			Back Side	10	167800	839	50	28	0.08	0.091	22.90	24.20	1.349	0.123	/
	State3&8			Right Edge	10	167800	839	50	28	0.01	0.210	22.90	24.20	1.349	0.283	/
Ant.0	State3&8	DFT-s-OFDM	SA	Front Side	10	166800	834	1	53	-0.07	0.090	22.53	24.20	1.469	0.132	/
	State3&8	s-OFDM		Back Side	10	166800	834	1	53	0.06	0.167	22.53	24.20	1.469	0.245	/
	State3&8	BPSK		Left Edge	10	166800	834	1	53	0.09	0.023	22.53	24.20	1.469	0.034	/
	State3&8			Right Edge	10	166800	834	1	53	0.11	0.083	22.53	24.20	1.469	0.122	/

State3&8			Bottom Edge	10	166800	834	1	53	-0.09	0.152	22.53	24.20	1.469	0.223	/
State3&8			Front Side	10	167800	839	50	28	0.09	0.085	22.65	24.20	1.429	0.121	/
State3&8			Back Side	10	167800	839	50	28	0.05	0.171	22.65	24.20	1.429	0.244	/
State3&8			Left Edge	10	167800	839	50	28	0.06	0.021	22.65	24.20	1.429	0.030	/
State3&8			Right Edge	10	167800	839	50	28	0.09	0.076	22.65	24.20	1.429	0.109	/
State3&8			Bottom Edge	10	167800	839	50	28	0.06	0.148	22.65	24.20	1.429	0.211	/

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

### 11.21 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.3	State5	DFT-s-OFDM BPSK	SA	Left Cheek	0	505000	2525	1	1	0.02	0.359	18.41	19.70	1.346	0.483	/
	State5			Left Tilt	0	505000	2525	1	1	-0.06	0.391	18.41	19.70	1.346	0.526	/
	State5			Right Cheek	0	505000	2525	1	1	0.01	0.591	18.41	19.70	1.346	0.795	/
	State5			Right Tilt	0	505000	2525	1	1	0.03	0.858	18.41	19.70	1.346	<b>1.155</b>	52#
	State5			Left Cheek	0	509000	2545	135	68	-0.09	0.362	18.60	19.70	1.288	0.466	/
	State5			Left Tilt	0	509000	2545	135	68	-0.04	0.385	18.60	19.70	1.288	0.496	/
	State5			Right Cheek	0	509000	2545	135	68	0.10	0.614	18.60	19.70	1.288	0.791	/
	State5			Right Tilt	0	509000	2545	135	68	-0.10	0.835	18.60	19.70	1.288	1.075	/
	State5			Right Tilt	0	507000	2535	1	1	-0.09	0.840	18.35	19.70	1.365	1.147	/
	State5			Right Tilt	0	509000	2545	1	135	-0.10	0.835	18.33	19.70	1.371	1.145	/
	State5			Right Tilt	0	505000	2525	135	135	-0.08	0.838	18.32	19.70	1.374	1.151	/
	State5			Right Tilt	0	507000	2535	135	0	0.06	0.824	18.46	19.70	1.330	1.096	/
	State5			Right Tilt	0	507000	2535	270	0	0.08	0.823	18.44	19.70	1.337	1.100	/
Ant.3	State10	DFT-s-OFDM BPSK	SA	Left Cheek	0	507000	2535	1	1	-0.05	0.308	17.74	19.20	1.400	0.431	/
	State10			Left Tilt	0	507000	2535	1	1	0.03	0.332	17.74	19.20	1.400	0.465	/
	State10			Right Cheek	0	507000	2535	1	1	0.03	0.501	17.74	19.20	1.400	0.701	/
	State10			Right Tilt	0	507000	2535	1	1	0.02	0.728	17.74	19.20	1.400	1.019	/
	State10			Left Cheek	0	505000	2525	135	68	0.04	0.306	17.97	19.20	1.327	0.406	/
	State10			Left Tilt	0	505000	2525	135	68	0.02	0.329	17.97	19.20	1.327	0.437	/
	State10			Right Cheek	0	505000	2525	135	68	-0.06	0.522	17.97	19.20	1.327	0.693	/
	State10			Right Tilt	0	505000	2525	135	68	-0.07	0.705	17.97	19.20	1.327	0.936	/
	State10			Right Tilt	0	505000	2525	1	1	0.05	0.706	17.65	19.20	1.429	1.009	/
	State10			Right Tilt	0	509000	2545	1	135	0.07	0.710	17.64	19.20	1.432	1.017	/
	State10			Right Tilt	0	507000	2535	135	0	0.07	0.704	17.75	19.20	1.396	0.983	/
	State10			Right Tilt	0	509000	2545	135	135	-0.09	0.701	17.92	19.20	1.343	0.941	/
	State10			Right Tilt	0	505000	2525	270	0	0.10	0.697	17.89	19.20	1.352	0.942	/
Ant.4	State5&10	DFT-s-OFDM BPSK	SA	Left Cheek	0	507000	2535	1	1	-0.09	0.132	22.00	23.20	1.318	0.174	/
	State5&10			Left Tilt	0	507000	2535	1	1	-0.09	0.090	22.00	23.20	1.318	0.119	/
	State5&10			Right Cheek	0	507000	2535	1	1	0.09	0.393	22.00	23.20	1.318	0.518	/
	State5&10			Right Tilt	0	507000	2535	1	1	-0.09	0.212	22.00	23.20	1.318	0.279	/
	State5&10			Left Cheek	0	505000	2525	135	68	0.05	0.104	22.07	23.20	1.297	0.135	/
	State5&10			Left Tilt	0	505000	2525	135	68	-0.10	0.065	22.07	23.20	1.297	0.084	/
	State5&10			Right Cheek	0	505000	2525	135	68	0.06	0.311	22.07	23.20	1.297	0.403	/
	State5&10			Right Tilt	0	505000	2525	135	68	0.05	0.153	22.07	23.20	1.297	0.198	/
Ant.0	State5&10	DFT-s-	SA	Left Cheek	0	507000	2535	1	268	0.05	0.198	22.95	24.20	1.334	0.264	/
	State5&10			Left Tilt	0	507000	2535	1	268	0.10	0.129	22.95	24.20	1.334	0.172	/

	State5&10	OFDM		Right Cheek	0	507000	2535	1	268	0.10	0.166	22.95	24.20	1.334	0.221	/
	State5&10	BPSK		Right Tilt	0	507000	2535	1	268	-0.03	0.105	22.95	24.20	1.334	0.140	/
	State5&10			Left Cheek	0	509000	2545	135	68	0.08	0.146	23.13	24.20	1.279	0.187	/
	State5&10			Left Tilt	0	509000	2545	135	68	0.00	0.091	23.13	24.20	1.279	0.116	/
	State5&10			Right Cheek	0	509000	2545	135	68	0.08	0.122	23.13	24.20	1.279	0.156	/
	State5&10			Right Tilt	0	509000	2545	135	68	-0.08	0.075	23.13	24.20	1.279	0.096	/
<b>Body-worn</b>																
Ant.3	State3	DFT-	SA	Front Side	15	507000	2535	1	1	0.00	0.063	19.12	20.70	1.439	0.091	/
	State3	s-		Back Side	15	507000	2535	1	1	0.03	0.059	19.12	20.70	1.439	0.085	/
	State3	OFDM		Front Side	15	505000	2525	135	135	0.11	0.063	19.33	20.70	1.371	0.086	/
	State3	BPSK		Back Side	15	505000	2525	135	135	0.10	0.061	19.33	20.70	1.371	0.084	/
Ant.3	State8	DFT-	SA	Front Side	15	507000	2535	1	1	0.07	0.056	18.69	20.20	1.416	0.079	/
	State8	s-		Back Side	15	507000	2535	1	1	-0.07	0.052	18.69	20.20	1.416	0.074	/
	State8	OFDM		Front Side	15	505000	2525	135	68	-0.02	0.056	18.92	20.20	1.343	0.075	/
	State8	BPSK		Back Side	15	505000	2525	135	68	0.11	0.053	18.92	20.20	1.343	0.071	/
Ant.4	State3	DFT-	SA	Front Side	15	507000	2535	1	1	0.03	0.031	20.97	21.95	1.253	0.039	/
	State3	s-		Back Side	15	507000	2535	1	1	-0.09	0.217	20.97	21.95	1.253	0.272	/
	State3	OFDM		Front Side	15	505000	2525	135	135	-0.07	0.030	21.15	21.95	1.202	0.036	/
	State3	BPSK		Back Side	15	505000	2525	135	135	-0.06	0.217	21.15	21.95	1.202	0.261	/
Ant.4	State8	DFT-	SA	Front Side	15	507000	2535	1	1	0.00	0.028	19.95	21.45	1.413	0.040	/
	State8	s-		Back Side	15	507000	2535	1	1	-0.08	0.195	19.95	21.45	1.413	0.276	/
	State8	OFDM		Front Side	15	509000	2545	135	68	0.00	0.027	20.17	21.45	1.343	0.036	/
	State8	BPSK		Back Side	15	509000	2545	135	68	0.11	0.193	20.17	21.45	1.343	0.259	/
Ant.0	State3	DFT-	SA	Front Side	15	507000	2535	1	268	-0.01	0.240	22.95	24.20	1.334	0.320	/
	State3	s-		Back Side	15	507000	2535	1	268	0.02	0.278	22.95	24.20	1.334	0.371	53#
	State3	OFDM		Front Side	15	509000	2545	135	68	0.03	0.241	23.13	24.20	1.279	0.308	/
	State3	BPSK		Back Side	15	509000	2545	135	68	-0.05	0.282	23.13	24.20	1.279	0.361	/
Ant.0	State8	DFT-	SA	Front Side	15	507000	2535	1	268	0.09	0.200	22.55	23.45	1.230	0.246	/
	State8	s-		Back Side	15	507000	2535	1	268	-0.05	0.231	22.55	23.45	1.230	0.284	/
	State8	OFDM		Front Side	15	507000	2535	135	0	0.01	0.198	22.59	23.45	1.219	0.241	/
	State8	BPSK		Back Side	15	507000	2535	135	0	-0.09	0.236	22.59	23.45	1.219	0.288	/
<b>Hotspot</b>																
Ant.3	State3	DFT-	SA	Front Side	10	507000	2535	1	1	0.04	0.135	19.12	20.70	1.439	0.194	/
	State3			Back Side	10	507000	2535	1	1	-0.03	0.124	19.12	20.70	1.439	0.178	/
	State3			Right Edge	10	507000	2535	1	1	0.10	0.064	19.12	20.70	1.439	0.092	/
	State3			Top Edge	10	507000	2535	1	1	-0.01	0.227	19.12	20.70	1.439	0.327	/
	State3	OFDM		Front Side	10	505000	2525	135	135	0.11	0.137	19.33	20.70	1.371	0.188	/
	State3	BPSK		Back Side	10	505000	2525	135	135	0.09	0.125	19.33	20.70	1.371	0.171	/
	State3	Right Edge		10	505000	2525	135	135	-0.07	0.068	19.33	20.70	1.371	0.093	/	
	State3	Top Edge		10	505000	2525	135	135	-0.09	0.010	19.33	20.70	1.371	0.014	/	
Ant.3	State8	DFT-	SA	Front Side	10	507000	2535	1	1	-0.06	0.119	18.69	20.20	1.416	0.169	/
	State8	s-		Back Side	10	507000	2535	1	1	-0.05	0.110	18.69	20.20	1.416	0.156	/
	State8			Right Edge	10	507000	2535	1	1	0.07	0.057	18.69	20.20	1.416	0.081	/

	State8	OFDM		Top Edge	10	507000	2535	1	1	0.04	0.201	18.69	20.20	1.416	0.285	/		
	State8	BPSK		Front Side	10	505000	2525	135	68	-0.02	0.122	18.92	20.20	1.343	0.164	/		
	State8			Back Side	10	505000	2525	135	68	-0.04	0.110	18.92	20.20	1.343	0.148	/		
	State8			Right Edge	10	505000	2525	135	68	-0.05	0.058	18.92	20.20	1.343	0.078	/		
	State8			Top Edge	10	505000	2525	135	68	0.02	0.008	18.92	20.20	1.343	0.011	/		
Ant.4	State3	DFT-	SA	Front Side	10	507000	2535	1	1	-0.04	0.049	20.97	21.95	1.253	0.061	/		
	State3			Back Side	10	507000	2535	1	1	-0.05	0.399	20.97	21.95	1.253	0.500	/		
	State3			Right Edge	10	507000	2535	1	1	0.08	0.298	20.97	21.95	1.253	0.373	/		
	State3	s-		Top Edge	10	507000	2535	1	1	-0.07	0.053	20.97	21.95	1.253	0.066	/		
	State3	OFDM		Front Side	10	505000	2525	135	135	-0.04	0.054	21.15	21.95	1.202	0.065	/		
	State3	BPSK		Back Side	10	505000	2525	135	135	-0.05	0.419	21.15	21.95	1.202	0.504	/		
	State3			Right Edge	10	505000	2525	135	135	-0.01	0.303	21.15	21.95	1.202	0.364	/		
	State3			Top Edge	10	505000	2525	135	135	0.07	0.058	21.15	21.95	1.202	0.070	/		
Ant.4	State8	DFT-	SA	Front Side	10	507000	2535	1	1	0.00	0.043	19.95	21.45	1.413	0.061	/		
	State8			Back Side	10	507000	2535	1	1	-0.08	0.358	19.95	21.45	1.413	0.506	/		
	State8			Right Edge	10	507000	2535	1	1	-0.06	0.265	19.95	21.45	1.413	0.374	/		
	State8	s-		Top Edge	10	507000	2535	1	1	0.00	0.047	19.95	21.45	1.413	0.066	/		
	State8	OFDM		Front Side	10	509000	2545	135	68	0.10	0.048	20.17	21.45	1.343	0.064	/		
	State8	BPSK		Back Side	10	509000	2545	135	68	0.05	0.372	20.17	21.45	1.343	0.500	/		
	State8			Right Edge	10	509000	2545	135	68	0.02	0.269	20.17	21.45	1.343	0.361	/		
	State8			Top Edge	10	509000	2545	135	68	-0.01	0.053	20.17	21.45	1.343	0.071	/		
Ant.0	State3	DFT-	SA	Front Side	10	507000	2535	1	268	0.07	0.420	22.95	24.20	1.334	0.560	/		
	State3			Back Side	10	507000	2535	1	268	0.01	0.497	22.95	24.20	1.334	<b>0.663</b>	54#		
	State3			Left Edge	10	507000	2535	1	268	-0.01	0.348	22.95	24.20	1.334	0.464	/		
	State3	s-		Right Edge	10	507000	2535	1	268	0.00	0.064	22.95	24.20	1.334	0.085	/		
	State3	OFDM		Bottom Edge	10	507000	2535	1	268	-0.05	0.346	22.95	24.20	1.334	0.462	/		
	State3	BPSK		Front Side	10	509000	2545	135	68	-0.06	0.378	23.13	24.20	1.279	0.483	/		
	State3			Back Side	10	509000	2545	135	68	-0.04	0.444	23.13	24.20	1.279	0.568	/		
	State3			Left Edge	10	509000	2545	135	68	-0.10	0.311	23.13	24.20	1.279	0.398	/		
	State3			Right Edge	10	509000	2545	135	68	0.01	0.061	23.13	24.20	1.279	0.078	/		
	State3			Bottom Edge	10	509000	2545	135	68	-0.04	0.296	23.13	24.20	1.279	0.379	/		
	Ant.0	State8		DFT-	SA	Front Side	10	507000	2535	1	268	-0.07	0.358	22.55	23.45	1.230	0.440	/
		State8				Back Side	10	507000	2535	1	268	-0.07	0.425	22.55	23.45	1.230	0.523	/
State8		Left Edge	10			507000	2535	1	268	0.00	0.294	22.55	23.45	1.230	0.362	/		
State8		s-	Right Edge	10		507000	2535	1	268	-0.01	0.053	22.55	23.45	1.230	0.065	/		
State8		OFDM	Bottom Edge	10		507000	2535	1	268	0.08	0.292	22.55	23.45	1.230	0.359	/		
State8		BPSK	Front Side	10		507000	2535	135	0	-0.04	0.325	22.59	23.45	1.219	0.396	/		
State8			Back Side	10		507000	2535	135	0	-0.09	0.380	22.59	23.45	1.219	0.463	/		
State8			Left Edge	10		507000	2535	135	0	0.04	0.262	22.59	23.45	1.219	0.319	/		
State8			Right Edge	10		507000	2535	135	0	-0.06	0.050	22.59	23.45	1.219	0.061	/		
State8			Bottom Edge	10		507000	2535	135	0	-0.09	0.248	22.59	23.45	1.219	0.302	/		

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

### 11.22 n66 (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.3	State5	DFT-s-OFDM BPSK	SA	Left Cheek	0	352000	1760	1	108	-0.03	0.432	18.68	20.20	1.419	0.613	/
	State5			Left Tilt	0	352000	1760	1	108	0.11	0.490	18.68	20.20	1.419	0.695	/
	State5			Right Cheek	0	352000	1760	1	108	0.02	0.685	18.68	20.20	1.419	0.972	/
	State5			Right Tilt	0	352000	1760	1	108	-0.10	0.762	18.68	20.20	1.419	1.081	/
	State5			Left Cheek	0	349000	1745	108	108	0.00	0.425	18.83	20.20	1.371	0.583	/
	State5			Left Tilt	0	349000	1745	108	108	0.09	0.483	18.83	20.20	1.371	0.662	/
	State5			Right Cheek	0	349000	1745	108	108	0.09	0.676	18.83	20.20	1.371	0.927	/
	State5			Right Tilt	0	349000	1745	108	108	0.02	0.754	18.83	20.20	1.371	1.034	/
	State5			Right Cheek	0	346000	1730	1	108	0.07	0.695	18.66	20.20	1.426	0.991	/
	State5			Right Cheek	0	349000	1745	1	108	0.02	0.708	18.67	20.20	1.422	1.007	/
	State5			Right Cheek	0	346000	1730	108	108	-0.06	0.662	18.83	20.20	1.371	0.908	/
	State5			Right Cheek	0	352000	1760	108	0	0.11	0.670	18.75	20.20	1.396	0.935	/
	State5			Right Cheek	0	346000	1730	216	0	0.04	0.668	18.67	20.20	1.422	0.950	/
	State5			Right Tilt	0	346000	1730	1	108	-0.09	0.780	18.66	20.20	1.426	1.112	/
	State5			Right Tilt	0	349000	1745	1	108	-0.01	0.797	18.67	20.20	1.422	<b>1.133</b>	55#
	State5			Right Tilt	0	346000	1730	108	108	-0.08	0.734	18.83	20.20	1.371	1.006	/
	State5			Right Tilt	0	352000	1760	108	0	0.03	0.750	18.75	20.20	1.396	1.047	/
State5	Right Tilt	0	346000	1730	216	0	0.05	0.742	18.67	20.20	1.422	1.055	/			
Ant.3	State10	DFT-s-OFDM BPSK	SA	Left Cheek	0	349000	1745	1	108	-0.10	0.340	17.67	19.20	1.422	0.483	/
	State10			Left Tilt	0	349000	1745	1	108	-0.05	0.382	17.67	19.20	1.422	0.543	/
	State10			Right Cheek	0	349000	1745	1	108	0.04	0.538	17.67	19.20	1.422	0.765	/
	State10			Right Tilt	0	349000	1745	1	108	0.01	0.597	17.67	19.20	1.422	0.849	/
	State10			Left Cheek	0	346000	1730	108	0	-0.07	0.336	17.93	19.20	1.340	0.450	/
	State10			Left Tilt	0	346000	1730	108	0	-0.07	0.380	17.93	19.20	1.340	0.509	/
	State10			Right Cheek	0	346000	1730	108	0	-0.06	0.537	17.93	19.20	1.340	0.720	/
	State10			Right Tilt	0	346000	1730	108	0	-0.01	0.595	17.93	19.20	1.340	0.797	/
	State10			Right Tilt	0	346000	1730	1	108	-0.10	0.617	17.64	19.20	1.432	0.884	/
	State10			Right Tilt	0	352000	1760	1	1	0.03	0.632	17.64	19.20	1.432	0.905	/
	State10			Right Tilt	0	349000	1745	108	54	-0.01	0.581	17.89	19.20	1.352	0.786	/
	State10			Right Tilt	0	352000	1760	108	0	-0.02	0.594	17.74	19.20	1.400	0.832	/
	State10			Right Tilt	0	352000	1760	216	0	-0.03	0.576	17.64	19.20	1.432	0.825	/
Ant.0	State5&10	DFT-s-OFDM BPSK	SA	Left Cheek	0	349000	1745	1	108	-0.05	0.078	22.52	24.20	1.472	0.115	/
	State5&10			Left Tilt	0	349000	1745	1	108	-0.03	0.036	22.52	24.20	1.472	0.053	/
	State5&10			Right Cheek	0	349000	1745	1	108	-0.03	0.068	22.52	24.20	1.472	0.100	/
	State5&10			Right Tilt	0	349000	1745	1	108	0.04	0.030	22.52	24.20	1.472	0.044	/
	State5&10			Left Cheek	0	346000	1730	108	0	0.01	0.071	22.76	24.20	1.393	0.099	/



	State5&10			Left Tilt	0	346000	1730	108	0	0.07	0.029	22.76	24.20	1.393	0.040	/
	State5&10			Right Cheek	0	346000	1730	108	0	0.03	0.064	22.76	24.20	1.393	0.089	/
	State5&10			Right Tilt	0	346000	1730	108	0	-0.08	0.024	22.76	24.20	1.393	0.033	/
<b>Body-worn</b>																
Ant.3	State3	DFT-	SA	Front Side	15	349000	1745	1	108	-0.05	0.111	20.71	21.95	1.330	0.148	/
	State3	s-		Back Side	15	349000	1745	1	108	-0.03	0.210	20.71	21.95	1.330	0.279	/
	State3	OFDM		Front Side	15	346000	1730	108	0	-0.04	0.110	20.92	21.95	1.268	0.139	/
	State3	BPSK		Back Side	15	346000	1730	108	0	0.07	0.209	20.92	21.95	1.268	0.265	/
Ant.3	State8	DFT-	SA	Front Side	15	349000	1745	1	108	-0.08	0.092	20.71	21.20	1.119	0.103	/
	State8	s-		Back Side	15	349000	1745	1	108	0.04	0.176	20.71	21.20	1.119	0.197	/
	State8	OFDM		Front Side	15	346000	1730	108	0	0.01	0.094	20.86	21.20	1.081	0.102	/
	State8	BPSK		Back Side	15	346000	1730	108	0	0.08	0.178	20.86	21.20	1.081	0.192	/
Ant.0	State3	DFT-	SA	Front Side	15	349000	1745	1	108	-0.01	0.148	21.65	22.95	1.349	0.200	/
	State3	s-		Back Side	15	349000	1745	1	108	0.00	0.286	21.65	22.95	1.349	<b>0.386</b>	56#
	State3	OFDM		Front Side	15	349000	1745	108	54	0.11	0.150	21.80	22.95	1.303	0.195	/
	State3	BPSK		Back Side	15	349000	1745	108	54	-0.02	0.289	21.80	22.95	1.303	0.377	/
Ant.0	State8	DFT-	SA	Front Side	15	352000	1760	1	108	0.02	0.127	20.66	22.20	1.426	0.181	/
	State8	s-		Back Side	15	352000	1760	1	108	-0.06	0.241	20.66	22.20	1.426	0.344	/
	State8	OFDM		Front Side	15	346000	1730	108	108	-0.04	0.129	20.78	22.20	1.387	0.179	/
	State8	BPSK		Back Side	15	346000	1730	108	108	-0.03	0.243	20.78	22.20	1.387	0.337	/
<b>Hotspot</b>																
Ant.3	State3	DFT-	SA	Front Side	10	349000	1745	1	108	0.07	0.288	20.71	21.95	1.330	0.383	/
	State3			Back Side	10	349000	1745	1	108	-0.04	0.304	20.71	21.95	1.330	0.404	/
	State3			Right Edge	10	349000	1745	1	108	-0.05	0.098	20.71	21.95	1.330	0.130	/
	State3			Top Edge	10	349000	1745	1	108	0.01	0.435	20.71	21.95	1.330	0.579	/
	State3	OFDM		Front Side	10	346000	1730	108	0	0.11	0.289	20.92	21.95	1.268	0.366	/
	State3			Back Side	10	346000	1730	108	0	-0.08	0.337	20.92	21.95	1.268	0.427	/
	State3			Right Edge	10	346000	1730	108	0	-0.10	0.101	20.92	21.95	1.268	0.128	/
	State3			Top Edge	10	346000	1730	108	0	0.00	0.440	20.92	21.95	1.268	0.558	/
Ant.3	State8	DFT-	SA	Front Side	10	349000	1745	1	108	-0.08	0.284	20.71	21.20	1.119	0.318	/
	State8			Back Side	10	349000	1745	1	108	-0.06	0.302	20.71	21.20	1.119	0.338	/
	State8			Right Edge	10	349000	1745	1	108	0.01	0.095	20.71	21.20	1.119	0.106	/
	State8			Top Edge	10	349000	1745	1	108	-0.05	0.426	20.71	21.20	1.119	0.477	/
	State8	OFDM		Front Side	10	346000	1730	108	0	0.05	0.283	20.86	21.20	1.081	0.306	/
	State8			Back Side	10	346000	1730	108	0	-0.03	0.331	20.86	21.20	1.081	0.358	/
	State8			Right Edge	10	346000	1730	108	0	-0.09	0.094	20.86	21.20	1.081	0.102	/
	State8			Top Edge	10	346000	1730	108	0	-0.09	0.413	20.86	21.20	1.081	0.446	/
Ant.0	State3	DFT-	SA	Front Side	10	349000	1745	1	108	-0.02	0.257	21.65	22.95	1.349	0.347	/
	State3			Back Side	10	349000	1745	1	108	0.07	0.521	21.65	22.95	1.349	0.703	/
	State3	s-		Left Edge	10	349000	1745	1	108	-0.03	0.105	21.65	22.95	1.349	0.142	/
	State3			Right Edge	10	349000	1745	1	108	0.01	0.046	21.65	22.95	1.349	0.062	/
	State3	OFDM		Bottom Edge	10	349000	1745	1	108	-0.02	0.564	21.65	22.95	1.349	<b>0.761</b>	57#
	State3			Front Side	10	349000	1745	108	54	0.10	0.263	21.80	22.95	1.303	0.343	/

	State3			Back Side	10	349000	1745	108	54	0.05	0.530	21.80	22.95	1.303	0.691	/
	State3			Left Edge	10	349000	1745	108	54	-0.03	0.112	21.80	22.95	1.303	0.146	/
	State3			Right Edge	10	349000	1745	108	54	-0.05	0.046	21.80	22.95	1.303	0.060	/
	State3			Bottom Edge	10	349000	1745	108	54	0.00	0.582	21.80	22.95	1.303	0.758	/
Ant.0	State8	DFT- s- OFDM BPSK	SA	Front Side	10	352000	1760	1	108	-0.07	0.214	20.66	22.20	1.426	0.305	/
	State8			Back Side	10	352000	1760	1	108	0.08	0.436	20.66	22.20	1.426	0.622	/
	State8			Left Edge	10	352000	1760	1	108	-0.07	0.085	20.66	22.20	1.426	0.121	/
	State8			Right Edge	10	352000	1760	1	108	0.05	0.038	20.66	22.20	1.426	0.054	/
	State8			Bottom Edge	10	352000	1760	1	108	-0.08	0.481	20.66	22.20	1.426	0.686	/
	State8			Front Side	10	346000	1730	108	108	0.08	0.220	20.78	22.20	1.387	0.305	/
	State8			Back Side	10	346000	1730	108	108	0.03	0.443	20.78	22.20	1.387	0.614	/
	State8			Left Edge	10	346000	1730	108	108	0.11	0.097	20.78	22.20	1.387	0.135	/
	State8			Right Edge	10	346000	1730	108	108	-0.01	0.039	20.78	22.20	1.387	0.054	/
	State8			Bottom Edge	10	346000	1730	108	108	-0.09	0.494	20.78	22.20	1.387	0.685	/

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

### 11.23 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.3	State5	DFT-s-OFDM BPSK	SA	Left Cheek	0	518000	2590	1	108	0.01	0.292	17.26	18.45	1.315	0.384	/
	State5			Left Tilt	0	518000	2590	1	108	0.07	0.335	17.26	18.45	1.315	0.441	/
	State5			Right Cheek	0	518000	2590	1	108	-0.05	0.606	17.26	18.45	1.315	0.797	/
	State5			Right Tilt	0	518000	2590	1	108	-0.09	0.798	17.26	18.45	1.315	1.049	/
	State5			Left Cheek	0	519000	2595	108	0	0.08	0.295	17.26	18.45	1.315	0.388	/
	State5			Left Tilt	0	519000	2595	108	0	0.00	0.342	17.26	18.45	1.315	0.450	/
	State5			Right Cheek	0	519000	2595	108	0	-0.03	0.606	17.26	18.45	1.315	0.797	/
	State5			Right Tilt	0	519000	2595	108	0	0.04	0.865	17.26	18.45	1.315	<b>1.137</b>	<b>58#</b>
	State5			Right Tilt	0	519000	2595	1	108	-0.07	0.785	17.22	18.45	1.327	1.042	/
	State5			Right Tilt	0	520000	2600	1	108	-0.09	0.832	17.15	18.45	1.349	1.122	/
	State5			Right Tilt	0	518000	2590	108	0	0.06	0.804	17.18	18.45	1.340	1.077	/
	State5			Right Tilt	0	520000	2600	108	54	-0.09	0.821	17.20	18.45	1.334	1.095	/
	State5			Right Tilt	0	518000	2590	216	0	-0.09	0.810	17.24	18.45	1.321	1.070	/
Ant.3	State10	DFT-s-OFDM BPSK	SA	Left Cheek	0	518000	2590	1	214	-0.04	0.258	16.73	17.95	1.324	0.342	/
	State10			Left Tilt	0	518000	2590	1	214	0.02	0.297	16.73	17.95	1.324	0.393	/
	State10			Right Cheek	0	518000	2590	1	214	0.10	0.540	16.73	17.95	1.324	0.715	/
	State10			Right Tilt	0	518000	2590	1	214	-0.10	0.708	16.73	17.95	1.324	0.937	/
	State10			Left Cheek	0	518000	2590	108	54	0.06	0.264	16.94	17.95	1.262	0.333	/
	State10			Left Tilt	0	518000	2590	108	54	-0.07	0.303	16.94	17.95	1.262	0.382	/
	State10			Right Cheek	0	518000	2590	108	54	-0.09	0.539	16.94	17.95	1.262	0.680	/
	State10			Right Tilt	0	518000	2590	108	54	-0.09	0.768	16.94	17.95	1.262	0.969	/
	State10			Right Tilt	0	519000	2595	1	108	-0.03	0.700	16.71	17.95	1.330	0.931	/
	State10			Right Tilt	0	520000	2600	1	108	0.02	0.739	16.56	17.95	1.377	1.018	/
	State10			Right Tilt	0	519000	2595	108	54	-0.06	0.714	16.77	17.95	1.312	0.937	/
	State10			Right Tilt	0	520000	2600	108	0	-0.09	0.728	16.88	17.95	1.279	0.931	/
	State10			Right Tilt	0	518000	2590	216	0	-0.06	0.725	16.88	17.95	1.279	0.927	/
Ant.4	State5&10	DFT-s-OFDM BPSK	SA	Left Cheek	0	518000	2590	1	1	0.08	0.067	21.92	23.20	1.343	0.090	/
	State5&10			Left Tilt	0	518000	2590	1	1	0.11	0.063	21.92	23.20	1.343	0.085	/
	State5&10			Right Cheek	0	518000	2590	1	1	0.01	0.171	21.92	23.20	1.343	0.230	/
	State5&10			Right Tilt	0	518000	2590	1	1	0.03	0.092	21.92	23.20	1.343	0.124	/
	State5&10			Left Cheek	0	519000	2595	108	54	-0.05	0.045	21.82	23.20	1.374	0.062	/
	State5&10			Left Tilt	0	519000	2595	108	54	0.01	0.032	21.82	23.20	1.374	0.044	/
	State5&10			Right Cheek	0	519000	2595	108	54	-0.08	0.136	21.82	23.20	1.374	0.187	/
	State5&10			Right Tilt	0	519000	2595	108	54	0.06	0.065	21.82	23.20	1.374	0.089	/
Ant.0	State5&10	DFT-s-	SA	Left Cheek	0	518000	2590	1	108	-0.02	0.132	23.05	24.20	1.303	0.172	/
	State5&10			Left Tilt	0	518000	2590	1	108	-0.02	0.054	23.05	24.20	1.303	0.070	/

	State5&10	OFDM		Right Cheek	0	518000	2590	1	108	-0.01	0.056	23.05	24.20	1.303	0.073	/	
	State5&10	BPSK		Right Tilt	0	518000	2590	1	108	0.03	0.030	23.05	24.20	1.303	0.039	/	
	State5&10			Left Cheek	0	518000	2590	108	54	-0.03	0.102	23.06	24.20	1.300	0.133	/	
	State5&10			Left Tilt	0	518000	2590	108	54	0.00	0.047	23.06	24.20	1.300	0.061	/	
	State5&10			Right Cheek	0	518000	2590	108	54	0.09	0.037	23.06	24.20	1.300	0.048	/	
	State5&10			Right Tilt	0	518000	2590	108	54	-0.09	0.021	23.06	24.20	1.300	0.027	/	
<b>Body-worn</b>																	
Ant.3	State3	DFT-	SA	Front Side	15	519000	2595	1	108	-0.03	0.079	18.70	20.20	1.413	0.112	/	
	State3	s-		Back Side	15	519000	2595	1	108	0.08	0.094	18.70	20.20	1.413	0.133	/	
	State3	OFDM		Front Side	15	520000	2600	108	108	0.06	0.079	18.83	20.20	1.371	0.108	/	
	State3	BPSK		Back Side	15	520000	2600	108	108	-0.03	0.092	18.83	20.20	1.371	0.126	/	
Ant.3	State8	DFT-	SA	Front Side	15	519000	2595	1	108	0.11	0.069	18.21	19.70	1.409	0.097	/	
	State8	s-		Back Side	15	519000	2595	1	108	-0.03	0.083	18.21	19.70	1.409	0.117	/	
	State8	OFDM		Front Side	15	518000	2590	108	54	-0.03	0.071	18.38	19.70	1.355	0.096	/	
	State8	BPSK		Back Side	15	518000	2590	108	54	0.06	0.081	18.38	19.70	1.355	0.110	/	
Ant.4	State3	DFT-	SA	Front Side	15	518000	2590	1	108	0.02	0.034	19.42	20.45	1.268	0.043	/	
	State3	s-		Back Side	15	518000	2590	1	108	-0.02	0.100	19.42	20.45	1.268	0.127	/	
	State3	OFDM		Front Side	15	520000	2600	108	0	0.08	0.033	19.55	20.45	1.230	0.041	/	
	State3	BPSK		Back Side	15	520000	2600	108	0	-0.02	0.097	19.55	20.45	1.230	0.119	/	
Ant.4	State8	DFT-	SA	Front Side	15	519000	2595	1	108	-0.03	0.029	18.37	19.70	1.358	0.039	/	
	State8	s-		Back Side	15	519000	2595	1	108	0.09	0.088	18.37	19.70	1.358	0.120	/	
	State8	OFDM		Front Side	15	518000	2590	108	54	-0.09	0.027	18.50	19.70	1.318	0.036	/	
	State8	BPSK		Back Side	15	518000	2590	108	54	-0.05	0.084	18.50	19.70	1.318	0.111	/	
Ant.0	State3&8	DFT-	SA	Front Side	15	518000	2590	1	108	-0.10	0.276	23.05	24.20	1.303	0.360	/	
	State3&8	s-		Back Side	15	518000	2590	1	108	-0.02	0.277	23.05	24.20	1.303	0.361	59#	
	State3&8	OFDM		Front Side	15	518000	2590	108	54	-0.03	0.272	23.06	24.20	1.300	0.354	/	
	State3&8	BPSK		Back Side	15	518000	2590	108	54	0.02	0.275	23.06	24.20	1.300	0.358	/	
<b>Hotspot</b>																	
Ant.3	State3	DFT-	SA	Front Side	10	519000	2595	1	108	-0.10	0.168	18.70	20.20	1.413	0.237	/	
	State3			Back Side	10	519000	2595	1	108	-0.10	0.194	18.70	20.20	1.413	0.274	/	
	State3			s-	Right Edge	10	519000	2595	1	108	-0.07	0.095	18.70	20.20	1.413	0.134	/
	State3			Top Edge	10	519000	2595	1	108	-0.01	0.356	18.70	20.20	1.413	<b>0.503</b>	60#	
	State3	OFDM		Front Side	10	520000	2600	108	108	-0.02	0.188	18.83	20.20	1.371	0.258	/	
	State3	BPSK		Back Side	10	520000	2600	108	108	-0.09	0.204	18.83	20.20	1.371	0.280	/	
	State3	Right Edge		10	520000	2600	108	108	0.09	0.101	18.83	20.20	1.371	0.138	/		
	State3	Top Edge		10	520000	2600	108	108	0.07	0.358	18.83	20.20	1.371	0.491	/		
Ant.3	State8	DFT-	SA	Front Side	10	519000	2595	1	108	-0.01	0.147	18.21	19.70	1.409	0.207	/	
	State8			Back Side	10	519000	2595	1	108	-0.10	0.171	18.21	19.70	1.409	0.241	/	
	State8			s-	Right Edge	10	519000	2595	1	108	0.02	0.083	18.21	19.70	1.409	0.117	/
	State8	OFDM		Top Edge	10	519000	2595	1	108	-0.03	0.296	18.21	19.70	1.409	0.417	/	
	State8	BPSK		Front Side	10	518000	2590	108	54	-0.03	0.167	18.38	19.70	1.355	0.226	/	
	State8	Back Side		10	518000	2590	108	54	0.04	0.181	18.38	19.70	1.355	0.245	/		
	State8	Right Edge		10	518000	2590	108	54	0.04	0.089	18.38	19.70	1.355	0.121	/		

	State8			Top Edge	10	518000	2590	108	54	0.10	0.316	18.38	19.70	1.355	0.428	/
Ant.4	State3	DFT- s- OFDM BPSK	SA	Front Side	10	518000	2590	1	108	-0.06	0.076	19.42	20.45	1.268	0.096	/
	State3			Back Side	10	518000	2590	1	108	0.05	0.229	19.42	20.45	1.268	0.290	/
	State3			Right Edge	10	518000	2590	1	108	0.03	0.117	19.42	20.45	1.268	0.148	/
	State3			Top Edge	10	518000	2590	1	108	0.05	0.025	19.42	20.45	1.268	0.032	/
	State3			Front Side	10	520000	2600	108	0	-0.03	0.072	19.55	20.45	1.230	0.089	/
	State3			Back Side	10	520000	2600	108	0	0.00	0.224	19.55	20.45	1.230	0.276	/
	State3			Right Edge	10	520000	2600	108	0	-0.10	0.115	19.55	20.45	1.230	0.141	/
	State3			Top Edge	10	520000	2600	108	0	-0.06	0.026	19.55	20.45	1.230	0.032	/
	Ant.4			State8	DFT- s- OFDM BPSK	SA	Front Side	10	519000	2595	1	108	0.07	0.062	18.37	19.70
State8		Back Side	10	519000			2595	1	108	0.09	0.183	18.37	19.70	1.358	0.249	/
State8		Right Edge	10	519000			2595	1	108	-0.07	0.090	18.37	19.70	1.358	0.122	/
State8		Top Edge	10	519000			2595	1	108	0.08	0.021	18.37	19.70	1.358	0.029	/
State8		Front Side	10	518000			2590	108	54	0.03	0.058	18.50	19.70	1.318	0.076	/
State8		Back Side	10	518000			2590	108	54	-0.04	0.181	18.50	19.70	1.318	0.239	/
State8		Right Edge	10	518000			2590	108	54	0.11	0.092	18.50	19.70	1.318	0.121	/
State8		Top Edge	10	518000			2590	108	54	-0.08	0.021	18.50	19.70	1.318	0.028	/
Ant.0		State3&8	DFT- s- OFDM BPSK	SA			Front Side	10	518000	2590	1	108	-0.08	0.324	23.05	24.20
	State3&8	Back Side			10	518000	2590	1	108	0.07	0.354	23.05	24.20	1.303	0.461	/
	State3&8	Left Edge			10	518000	2590	1	108	0.05	0.270	23.05	24.20	1.303	0.352	/
	State3&8	Right Edge			10	518000	2590	1	108	-0.04	0.067	23.05	24.20	1.303	0.087	/
	State3&8	Bottom Edge			10	518000	2590	1	108	0.00	0.250	23.05	24.20	1.303	0.326	/
	State3&8	Front Side			10	518000	2590	108	54	-0.09	0.311	23.06	24.20	1.300	0.404	/
	State3&8	Back Side			10	518000	2590	108	54	-0.06	0.343	23.06	24.20	1.300	0.446	/
	State3&8	Left Edge			10	518000	2590	108	54	-0.06	0.254	23.06	24.20	1.300	0.330	/
	State3&8	Right Edge			10	518000	2590	108	54	0.08	0.066	23.06	24.20	1.300	0.086	/
	State3&8	Bottom Edge			10	518000	2590	108	54	0.10	0.231	23.06	24.20	1.300	0.300	/

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)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
<b>Specific</b>																
Ant.3	State3	DFT-s-OFDM BPSK	SA	Top Edge	0	519000	2595	1	108	-0.03	1.600	18.70	20.20	1.413	<b>2.261</b>	61#
	State3			Top Edge	0	520000	2600	108	108	0.08	1.580	18.83	20.20	1.371	2.166	/
	State3			Top Edge	0	518000	2590	1	108	0.01	1.530	18.69	20.20	1.416	2.166	/
	State3			Top Edge	0	520000	2600	1	108	0.06	1.500	18.62	20.20	1.439	2.159	/
	State3			Top Edge	0	518000	2590	108	0	-0.01	1.490	18.81	20.20	1.377	2.052	/
	State3			Top Edge	0	519000	2595	108	0	0.05	1.520	18.74	20.20	1.400	2.128	/
	State3			Top Edge	0	519000	2595	216	0	-0.11	1.500	18.70	20.20	1.413	2.120	/
Ant.3	State8	DFT-s-OFDM BPSK	SA	Top Edge	0	519000	2595	1	108	0.07	1.410	18.21	19.70	1.409	1.987	/
	State8			Top Edge	0	518000	2590	108	54	0.01	1.380	18.38	19.70	1.355	1.870	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																

### 11.24 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.3	State5	DFT-s-OFDM BPSK	SA	Left Cheek	0	509202	2546.01	1	1	0.11	0.272	18.24	18.70	1.112	0.302	/
	State5			Left Tilt	0	509202	2546.01	1	1	-0.10	0.339	18.24	18.70	1.112	0.377	/
	State5			Right Cheek	0	509202	2546.01	1	1	-0.02	0.588	18.24	18.70	1.112	0.654	/
	State5			Right Tilt	0	509202	2546.01	1	1	-0.01	0.726	18.24	18.70	1.112	0.807	/
	State5			Left Cheek	0	528000	2640	135	69	-0.08	0.252	18.39	18.70	1.074	0.271	/
	State5			Left Tilt	0	528000	2640	135	69	-0.10	0.312	18.39	18.70	1.074	0.335	/
	State5			Right Cheek	0	528000	2640	135	69	0.05	0.644	18.39	18.70	1.074	0.692	/
	State5			Right Tilt	0	528000	2640	135	69	-0.04	0.761	18.39	18.70	1.074	0.817	/
	State5			Right Tilt	0	513900	2569.5	1	1	-0.07	0.693	18.14	18.70	1.138	0.789	/
	State5			Right Tilt	0	518598	2592.99	1	1	0.04	0.727	18.17	18.70	1.130	<b>0.822</b>	62#
	State5			Right Tilt	0	523302	2616.51	1	137	0.02	0.710	18.07	18.70	1.156	0.821	/
	State5			Right Tilt	0	528000	2640	1	137	-0.01	0.723	18.17	18.70	1.130	0.817	/
	State5			Right Tilt	0	509202	2546.01	135	138	0.03	0.689	18.35	18.70	1.084	0.747	/
	State5			Right Tilt	0	513900	2569.5	135	69	-0.09	0.680	18.14	18.70	1.138	0.774	/
	State5			Right Tilt	0	518598	2592.99	135	69	-0.04	0.732	18.31	18.70	1.094	0.801	/
	State5			Right Tilt	0	523302	2616.51	135	69	0.03	0.716	18.38	18.70	1.076	0.770	/
State5	Right Tilt	0	509202	2546.01	270	0	-0.10	0.726	18.27	18.70	1.104	0.802	/			
Ant.3	State10	DFT-s-OFDM BPSK	SA	Left Cheek	0	509202	2546.01	1	137	-0.06	0.244	17.69	18.20	1.125	0.275	/
	State10			Left Tilt	0	509202	2546.01	1	137	-0.03	0.308	17.69	18.20	1.125	0.347	/
	State10			Right Cheek	0	509202	2546.01	1	137	0.04	0.526	17.69	18.20	1.125	0.592	/
	State10			Right Tilt	0	509202	2546.01	1	137	0.00	0.658	17.69	18.20	1.125	0.740	/
	State10			Left Cheek	0	528000	2640	135	69	-0.05	0.226	17.81	18.20	1.094	0.247	/
	State10			Left Tilt	0	528000	2640	135	69	-0.01	0.281	17.81	18.20	1.094	0.307	/
	State10			Right Cheek	0	528000	2640	135	69	0.05	0.576	17.81	18.20	1.094	0.630	/
	State10			Right Tilt	0	528000	2640	135	69	-0.06	0.681	17.81	18.20	1.094	0.745	/
	State10			Right Tilt	0	513900	2569.5	1	1	-0.01	0.623	17.69	18.20	1.125	0.701	/
Ant.4	State5&10	DFT-s-OFDM BPSK	SA	Left Cheek	0	509202	2546.01	1	1	0.00	0.078	22.08	23.20	1.294	0.101	/
	State5&10			Left Tilt	0	509202	2546.01	1	1	-0.05	0.073	22.08	23.20	1.294	0.094	/
	State5&10			Right Cheek	0	509202	2546.01	1	1	0.00	0.208	22.08	23.20	1.294	0.269	/
	State5&10			Right Tilt	0	509202	2546.01	1	1	-0.10	0.111	22.08	23.20	1.294	0.144	/
	State5&10			Left Cheek	0	509202	2546.01	135	69	0.09	0.063	22.05	23.20	1.303	0.082	/
	State5&10			Left Tilt	0	509202	2546.01	135	69	-0.07	0.062	22.05	23.20	1.303	0.081	/
	State5&10			Right Cheek	0	509202	2546.01	135	69	0.07	0.167	22.05	23.20	1.303	0.218	/
	State5&10			Right Tilt	0	509202	2546.01	135	69	0.01	0.081	22.05	23.20	1.303	0.106	/
Ant.0	State5&10	DFT-s-	SA	Left Cheek	0	518598	2592.99	1	137	-0.08	0.136	22.95	24.20	1.334	0.181	/
	State5&10			Left Tilt	0	518598	2592.99	1	137	-0.07	0.075	22.95	24.20	1.334	0.100	/

	State5&10	OFDM		Right Cheek	0	518598	2592.99	1	137	-0.03	0.066	22.95	24.20	1.334	0.088	/
	State5&10	BPSK		Right Tilt	0	518598	2592.99	1	137	0.05	0.036	22.95	24.20	1.334	0.048	/
	State5&10			Left Cheek	0	509202	2546.01	135	69	-0.08	0.092	23.09	24.20	1.291	0.119	/
	State5&10			Left Tilt	0	509202	2546.01	135	69	0.07	0.085	23.09	24.20	1.291	0.110	/
	State5&10			Right Cheek	0	509202	2546.01	135	69	-0.03	0.046	23.09	24.20	1.291	0.059	/
	State5&10			Right Tilt	0	509202	2546.01	135	69	-0.07	0.029	23.09	24.20	1.291	0.037	/
<b>Body-worn</b>																
Ant.3	State3	DFT-	SA	Front Side	15	509202	2546.01	1	1	0.01	0.059	19.24	19.70	1.112	0.066	/
	State3	s-		Back Side	15	509202	2546.01	1	1	-0.06	0.071	19.24	19.70	1.112	0.079	/
	State3	OFDM		Front Side	15	523302	2616.51	135	0	-0.08	0.065	19.41	19.70	1.069	0.069	/
	State3	BPSK		Back Side	15	523302	2616.51	135	0	-0.10	0.073	19.41	19.70	1.069	0.078	/
Ant.3	State8	DFT-	SA	Front Side	15	509202	2546.01	1	1	0.05	0.053	17.71	18.95	1.330	0.070	/
	State8	s-		Back Side	15	509202	2546.01	1	1	-0.04	0.061	17.71	18.95	1.330	0.081	/
	State8	OFDM		Front Side	15	528000	2640	135	0	0.01	0.055	17.79	18.95	1.306	0.072	/
	State8	BPSK		Back Side	15	528000	2640	135	0	-0.02	0.062	17.79	18.95	1.306	0.081	/
Ant.4	State3	DFT-	SA	Front Side	15	509202	2546.01	1	1	-0.01	0.028	19.10	19.95	1.216	0.034	/
	State3	s-		Back Side	15	509202	2546.01	1	1	-0.04	0.096	19.10	19.95	1.216	0.117	/
	State3	OFDM		Front Side	15	523302	2616.51	135	69	0.07	0.028	19.05	19.95	1.230	0.034	/
	State3	BPSK		Back Side	15	523302	2616.51	135	69	0.08	0.097	19.05	19.95	1.230	0.119	/
Ant.4	State8	DFT-	SA	Front Side	15	509202	2546.01	1	1	-0.02	0.025	18.60	19.45	1.216	0.030	/
	State8	s-		Back Side	15	509202	2546.01	1	1	-0.06	0.086	18.60	19.45	1.216	0.105	/
	State8	OFDM		Front Side	15	509202	2546.01	135	0	0.00	0.024	18.53	19.45	1.236	0.030	/
	State8	BPSK		Back Side	15	509202	2546.01	135	0	0.02	0.089	18.53	19.45	1.236	0.110	/
Ant.0	State3&8	DFT-	SA	Front Side	15	518598	2592.99	1	137	0.06	0.269	22.95	24.20	1.334	0.359	/
	State3&8	s-		Back Side	15	518598	2592.99	1	137	0.01	0.299	22.95	24.20	1.334	0.399	63#
	State3&8	OFDM		Front Side	15	509202	2546.01	135	69	0.05	0.261	23.09	24.20	1.291	0.337	/
	State3&8	BPSK		Back Side	15	509202	2546.01	135	69	-0.04	0.286	23.09	24.20	1.291	0.369	/
<b>Hotspot</b>																
Ant.3	State3	DFT-	SA	Front Side	10	509202	2546.01	1	1	-0.01	0.128	19.24	19.70	1.112	0.142	/
	State3			Back Side	10	509202	2546.01	1	1	-0.09	0.178	19.24	19.70	1.112	0.198	/
	State3			Right Edge	10	509202	2546.01	1	1	-0.01	0.075	19.24	19.70	1.112	0.083	/
	State3			Top Edge	10	509202	2546.01	1	1	0.09	0.283	19.24	19.70	1.112	0.315	/
	State3	OFDM		Front Side	10	523302	2616.51	135	0	0.02	0.135	19.41	19.70	1.069	0.144	/
	State3	BPSK		Back Side	10	523302	2616.51	135	0	0.00	0.180	19.41	19.70	1.069	0.192	/
	State3	Right Edge		10	523302	2616.51	135	0	0.11	0.076	19.41	19.70	1.069	0.081	/	
	State3	Top Edge		10	523302	2616.51	135	0	0.11	0.291	19.41	19.70	1.069	0.311	/	
Ant.3	State8	DFT-	SA	Front Side	10	509202	2546.01	1	1	0.09	0.107	17.71	18.95	1.330	0.142	/
	State8			Back Side	10	509202	2546.01	1	1	0.10	0.146	17.71	18.95	1.330	0.194	/
	State8			Right Edge	10	509202	2546.01	1	1	0.01	0.058	17.71	18.95	1.330	0.077	/
	State8	OFDM		Top Edge	10	509202	2546.01	1	1	-0.08	0.195	17.71	18.95	1.330	0.259	/
	State8	BPSK		Front Side	10	528000	2640	135	0	-0.09	0.114	17.79	18.95	1.306	0.149	/
	State8	Back Side		10	528000	2640	135	0	-0.08	0.151	17.79	18.95	1.306	0.197	/	
	State8	Right Edge		10	528000	2640	135	0	-0.06	0.062	17.79	18.95	1.306	0.081	/	



	State8			Top Edge	10	528000	2640	135	0	-0.06	0.194	17.79	18.95	1.306	0.253	/
Ant.4	State3	DFT-s-OFDM BPSK	SA	Front Side	10	509202	2546.01	1	1	-0.03	0.026	19.10	19.95	1.216	0.032	/
	State3			Back Side	10	509202	2546.01	1	1	0.11	0.264	19.10	19.95	1.216	0.321	/
	State3			Right Edge	10	509202	2546.01	1	1	-0.09	0.176	19.10	19.95	1.216	0.214	/
	State3			Top Edge	10	509202	2546.01	1	1	-0.09	0.030	19.10	19.95	1.216	0.036	/
	State3			Front Side	10	523302	2616.51	135	69	0.04	0.025	19.05	19.95	1.230	0.031	/
	State3			Back Side	10	523302	2616.51	135	69	0.05	0.254	19.05	19.95	1.230	0.312	/
	State3			Right Edge	10	523302	2616.51	135	69	0.02	0.173	19.05	19.95	1.230	0.213	/
	State3			Top Edge	10	523302	2616.51	135	69	0.01	0.028	19.05	19.95	1.230	0.034	/
	Ant.4			State8	DFT-s-OFDM BPSK	SA	Front Side	10	509202	2546.01	1	1	-0.05	0.024	18.60	19.45
State8		Back Side	10	509202			2546.01	1	1	0.01	0.230	18.60	19.45	1.216	0.280	/
State8		Right Edge	10	509202			2546.01	1	1	0.08	0.156	18.60	19.45	1.216	0.190	/
State8		Top Edge	10	509202			2546.01	1	1	0.00	0.025	18.60	19.45	1.216	0.030	/
State8		Front Side	10	509202			2546.01	135	0	-0.01	0.023	18.53	19.45	1.236	0.028	/
State8		Back Side	10	509202			2546.01	135	0	0.05	0.222	18.53	19.45	1.236	0.274	/
State8		Right Edge	10	509202			2546.01	135	0	0.05	0.151	18.53	19.45	1.236	0.187	/
State8		Top Edge	10	509202			2546.01	135	0	-0.02	0.024	18.53	19.45	1.236	0.030	/
Ant.0		State3&8	DFT-s-OFDM BPSK	SA			Front Side	10	518598	2592.99	1	137	0.06	0.481	22.95	24.20
	State3&8	Back Side			10	518598	2592.99	1	137	0.01	0.503	22.95	24.20	1.334	<b>0.671</b>	64#
	State3&8	Left Edge			10	518598	2592.99	1	137	0.11	0.422	22.95	24.20	1.334	0.563	/
	State3&8	Right Edge			10	518598	2592.99	1	137	0.02	0.088	22.95	24.20	1.334	0.117	/
	State3&8	Top Edge			10	518598	2592.99	1	137	0.04	0.057	22.95	24.20	1.334	0.076	/
	State3&8	Bottom Edge			10	518598	2592.99	1	137	0.02	0.392	22.95	24.20	1.334	0.523	/
	State3&8	Front Side			10	509202	2546.01	135	69	-0.09	0.459	23.09	24.20	1.291	0.593	/
	State3&8	Back Side			10	509202	2546.01	135	69	0.05	0.508	23.09	24.20	1.291	0.656	/
	State3&8	Left Edge			10	509202	2546.01	135	69	-0.04	0.418	23.09	24.20	1.291	0.540	/
	State3&8	Right Edge			10	509202	2546.01	135	69	0.00	0.091	23.09	24.20	1.291	0.117	/
	State3&8	Top Edge			10	509202	2546.01	135	69	-0.08	0.058	23.09	24.20	1.291	0.075	/
	State3&8	Bottom Edge			10	509202	2546.01	135	69	0.02	0.378	23.09	24.20	1.291	0.488	/

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.9	Level1	802.11 b	Left Cheek	0	3	2422	0.10	0.350	14.51	16.50	1.581	99.60	1.004	0.556	/
	Level1	802.11 b	Left Tilt	0	3	2422	-0.08	0.329	14.51	16.50	1.581	99.60	1.004	0.522	/
	Level1	802.11 b	Right Cheek	0	3	2422	0.07	0.257	14.51	16.50	1.581	99.60	1.004	0.408	/
	Level1	802.11 b	Right Tilt	0	3	2422	0.09	0.179	14.51	16.50	1.581	99.60	1.004	0.284	/
Ant.9	Level1	802.11 n(HT40)	Left Cheek	0	6	2437	-0.11	0.624	17.09	19.00	1.552	94.80	1.055	<b>1.022</b>	65#
	Level1	802.11 n(HT40)	Left Tilt	0	6	2437	-0.08	0.587	17.09	19.00	1.552	94.80	1.055	0.961	/
	Level1	802.11 n(HT40)	Right Cheek	0	6	2437	0.02	0.460	17.09	19.00	1.552	94.80	1.055	0.753	/
	Level1	802.11 n(HT40)	Right Tilt	0	6	2437	0.09	0.317	17.09	19.00	1.552	94.80	1.055	0.519	/
	Level1	802.11 n(HT40)	Left Cheek	0	4	2427	-0.08	0.564	17.05	19.00	1.567	94.80	1.055	0.932	/
	Level1	802.11 n(HT40)	Left Cheek	0	8	2447	0.10	0.609	17.04	19.00	1.570	94.80	1.055	1.009	/
	Level1	802.11 n(HT40)	Left Tilt	0	4	2427	-0.09	0.514	17.05	19.00	1.567	94.80	1.055	0.850	/
	Level1	802.11 n(HT40)	Left Tilt	0	8	2447	0.01	0.552	17.04	19.00	1.570	94.80	1.055	0.914	/
Ant.9	Level3	802.11 b	Left Cheek	0	4	2427	-0.01	0.350	14.22	16.00	1.507	99.60	1.004	0.530	/
	Level3	802.11 b	Left Tilt	0	4	2427	0.02	0.328	14.22	16.00	1.507	99.60	1.004	0.496	/
	Level3	802.11 b	Right Cheek	0	4	2427	0.09	0.256	14.22	16.00	1.507	99.60	1.004	0.387	/
	Level3	802.11 b	Right Tilt	0	4	2427	0.05	0.175	14.22	16.00	1.507	99.60	1.004	0.265	/
<b>Body-Wron</b>															
Ant.9	Level5&7	802.11 b	Front Side	15	3	2422	-0.01	0.073	14.51	16.50	1.581	99.60	1.004	0.116	/
	Level5&7	802.11 b	Back Side	15	3	2422	-0.05	0.084	14.51	16.50	1.581	99.60	1.004	0.133	/
Ant.9	Level5&7	802.11 n(HT40)	Front Side	15	6	2437	0.01	0.128	17.09	19.00	1.552	94.80	1.055	0.210	/
	Level5&7	802.11 n(HT40)	Back Side	15	6	2437	-0.14	0.147	17.09	19.00	1.552	94.80	1.055	<b>0.241</b>	66#
<b>Hotspot</b>															
Ant.9	Level7	802.11 b	Front Side	10	3	2422	-0.04	0.187	14.51	16.50	1.581	99.60	1.004	0.297	/
	Level7	802.11 b	Back Side	10	3	2422	0.09	0.193	14.51	16.50	1.581	99.60	1.004	0.306	/
	Level7	802.11 b	Left Edge	10	3	2422	-0.10	0.180	14.51	16.50	1.581	99.60	1.004	0.286	/
	Level7	802.11 b	Top Edge	10	3	2422	0.05	0.105	14.51	16.50	1.581	99.60	1.004	0.167	/

Ant.9	Level7	802.11 n(HT40)	Front Side	10	6	2437	0.00	0.343	17.09	19.00	1.552	94.80	1.055	0.562	/
	Level7	802.11 n(HT40)	Back Side	10	6	2437	0.02	0.349	17.09	19.00	1.552	94.80	1.055	<b>0.571</b>	67#
	Level7	802.11 n(HT40)	Left Edge	10	6	2437	0.05	0.329	17.09	19.00	1.552	94.80	1.055	0.539	/
	Level7	802.11 n(HT40)	Top Edge	10	6	2437	0.07	0.189	17.09	19.00	1.552	94.80	1.055	0.309	/

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.9	Level5&7	802.11 b	Front Side	0	3	2422	-0.08	0.352	14.51	16.50	1.581	99.60	1.004	0.559	/
	Level5&7	802.11 b	Back Side	0	3	2422	0.08	0.476	14.51	16.50	1.581	99.60	1.004	0.756	/
	Level5&7	802.11 b	Left Edge	0	3	2422	-0.10	0.353	14.51	16.50	1.581	99.60	1.004	0.560	/
	Level5&7	802.11 b	Top Edge	0	3	2422	0.09	0.398	14.51	16.50	1.581	99.60	1.004	0.632	/
Ant.9	Level5&7	802.11 n(HT40)	Front Side	0	6	2437	-0.01	0.646	17.09	19.00	1.552	94.80	1.055	1.058	/
	Level5&7	802.11 n(HT40)	Back Side	0	6	2437	-0.05	0.865	17.09	19.00	1.552	94.80	1.055	<b>1.416</b>	68#
	Level5&7	802.11 n(HT40)	Left Edge	0	6	2437	0.00	0.639	17.09	19.00	1.552	94.80	1.055	1.046	/
	Level5&7	802.11 n(HT40)	Top Edge	0	6	2437	-0.03	0.729	17.09	19.00	1.552	94.80	1.055	1.194	/

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 ac (VHT80)	Left Cheek	0	58	5290	0.09	0.604	13.11	14.00	1.227	87.90	1.138	0.843	/
	5.3G	Level1&2	802.11 ac (VHT80)	Left Tilt	0	58	5290	-0.10	0.683	13.11	14.00	1.227	87.90	1.138	<b>0.954</b>	69#
	5.3G	Level1&2	802.11 ac (VHT80)	Right Cheek	0	58	5290	-0.09	0.451	13.11	14.00	1.227	87.90	1.138	0.630	/
	5.3G	Level1&2	802.11 ac (VHT80)	Right Tilt	0	58	5290	-0.09	0.308	13.11	14.00	1.227	87.90	1.138	0.430	/
Ant.8	5.3G	Level3&4	802.11 ac (VHT80)	Left Cheek	0	58	5290	0.09	0.259	9.59	10.50	1.233	87.90	1.138	0.363	/
	5.3G	Level3&4	802.11 ac (VHT80)	Left Tilt	0	58	5290	0.04	0.303	9.59	10.50	1.233	87.90	1.138	0.425	/
	5.3G	Level3&4	802.11 ac (VHT80)	Right Cheek	0	58	5290	-0.10	0.200	9.59	10.50	1.233	87.90	1.138	0.281	/
	5.3G	Level3&4	802.11 ac (VHT80)	Right Tilt	0	58	5290	0.06	0.138	9.59	10.50	1.233	87.90	1.138	0.194	/
Ant.8	5.6G	Level1&2	802.11 ac (VHT80)	Left Cheek	0	122	5610	0.04	0.465	12.02	13.00	1.253	87.90	1.138	0.663	/
	5.6G	Level1&2	802.11 ac (VHT80)	Left Tilt	0	122	5610	-0.14	0.644	12.02	13.00	1.253	87.90	1.138	<b>0.918</b>	70#
	5.6G	Level1&2	802.11 ac (VHT80)	Right Cheek	0	122	5610	-0.06	0.287	12.02	13.00	1.253	87.90	1.138	0.409	/
	5.6G	Level1&2	802.11 ac (VHT80)	Right Tilt	0	122	5610	0.10	0.185	12.02	13.00	1.253	87.90	1.138	0.264	/
	5.6G	Level1&2	802.11 ac (VHT80)	Left Tilt	0	106	5530	0.08	0.603	11.95	13.00	1.274	87.90	1.138	0.874	/
Ant.8	5.6G	Level3&4	802.11 ac (VHT80)	Left Cheek	0	122	5610	-0.06	0.231	9.04	10.00	1.247	87.90	1.138	0.328	/
	5.6G	Level3&4	802.11 ac (VHT80)	Left Tilt	0	122	5610	0.00	0.325	9.04	10.00	1.247	87.90	1.138	0.461	/
	5.6G	Level3&4	802.11 ac (VHT80)	Right Cheek	0	122	5610	-0.02	0.142	9.04	10.00	1.247	87.90	1.138	0.202	/
	5.6G	Level3&4	802.11 ac (VHT80)	Right Tilt	0	122	5610	0.04	0.094	9.04	10.00	1.247	87.90	1.138	0.133	/
Ant.8	5.8G	Level1&2	802.11 ac (VHT80)	Left Cheek	0	155	5775	0.12	0.569	12.64	13.50	1.219	87.90	1.138	0.789	/

	5.8G	Level1&2	802.11 ac (VHT80)	Left Tilt	0	155	5775	-0.11	0.823	12.64	13.50	1.219	87.90	1.138	<b>1.142</b>	71#
	5.8G	Level1&2	802.11 ac (VHT80)	Right Cheek	0	155	5775	0.05	0.381	12.64	13.50	1.219	87.90	1.138	0.529	/
	5.8G	Level1&2	802.11 ac (VHT80)	Right Tilt	0	155	5775	-0.06	0.266	12.64	13.50	1.219	87.90	1.138	0.369	/
Ant.8	5.8G	Level3&4	802.11 ac (VHT80)	Left Cheek	0	155	5775	0.06	0.256	9.57	10.50	1.239	87.90	1.138	0.361	/
	5.8G	Level3&4	802.11 ac (VHT80)	Left Tilt	0	155	5775	0.03	0.413	9.57	10.50	1.239	87.90	1.138	0.582	/
	5.8G	Level3&4	802.11 ac (VHT80)	Right Cheek	0	155	5775	-0.08	0.190	9.57	10.50	1.239	87.90	1.138	0.268	/
	5.8G	Level3&4	802.11 ac (VHT80)	Right Tilt	0	155	5775	0.07	0.135	9.57	10.50	1.239	87.90	1.138	0.190	/
<b>Body-worn</b>																
Ant.8	5.3G	Level5&6	802.11 n(HT40)	Front Side	15	54	5270	-0.12	0.096	15.03	16.00	1.250	94.60	1.057	0.127	/
	5.3G	Level5&6	802.11 n(HT40)	Back Side	15	54	5270	-0.01	0.132	15.03	16.00	1.250	94.60	1.057	<b>0.174</b>	72#
Ant.8	5.3G	Level7&8	802.11 ac (VHT80)	Front Side	15	58	5290	0.07	0.050	12.08	13.00	1.236	87.90	1.138	0.070	/
	5.3G	Level7&8	802.11 ac (VHT80)	Back Side	15	58	5290	-0.04	0.068	12.08	13.00	1.236	87.90	1.138	0.096	/
Ant.8	5.6G	Level5&6	802.11 n(HT40)	Front Side	15	118	5590	0.07	0.131	14.91	16.00	1.285	94.60	1.057	0.178	/
	5.6G	Level5&6	802.11 n(HT40)	Back Side	15	118	5590	0.17	0.188	14.91	16.00	1.285	94.60	1.057	<b>0.255</b>	73#
Ant.8	5.6G	Level7&8	802.11 ac (VHT80)	Front Side	15	106	5530	0.11	0.068	12.19	13.00	1.205	87.90	1.138	0.093	/
	5.6G	Level7&8	802.11 ac (VHT80)	Back Side	15	106	5530	-0.03	0.096	12.19	13.00	1.205	87.90	1.138	0.132	/
Ant.8	5.8G	Level5&6	802.11 ac (VHT80)	Front Side	15	155	5775	0.10	0.168	16.92	17.00	1.019	87.90	1.138	0.195	/
	5.8G	Level5&6	802.11 ac (VHT80)	Back Side	15	155	5775	-0.12	0.256	16.92	17.00	1.019	87.90	1.138	<b>0.297</b>	74#
Ant.8	5.8G	Level7&8	802.11 ac (VHT80)	Front Side	15	155	5775	0.10	0.086	13.95	14.00	1.012	87.90	1.138	0.099	/
	5.8G	Level7&8	802.11 ac (VHT80)	Back Side	15	155	5775	-0.07	0.131	13.95	14.00	1.012	87.90	1.138	0.151	/
<b>Hotspot</b>																
Ant.8	5.2G	Level6	802.11 n(HT40)	Front Side	10	46	5230	-0.06	0.091	14.92	16.00	1.282	94.60	1.057	0.123	/

	5.2G	Level6	802.11 n(HT40)	Back Side	10	46	5230	0.08	0.123	14.92	16.00	1.282	94.60	1.057	0.167	/
	5.2G	Level6	802.11 n(HT40)	Left Edge	10	46	5230	0.00	0.027	14.92	16.00	1.282	94.60	1.057	0.037	/
	5.2G	Level6	802.11 n(HT40)	Top Edge	10	46	5230	0.10	0.404	14.92	16.00	1.282	94.60	1.057	<b>0.547</b>	75#
Ant.8	5.2G	Level7&8	802.11 ac (VHT80)	Front Side	10	42	5210	-0.03	0.045	12.23	13.00	1.194	87.90	1.138	0.061	/
	5.2G	Level7&8	802.11 ac (VHT80)	Back Side	10	42	5210	0.00	0.059	12.23	13.00	1.194	87.90	1.138	0.080	/
	5.2G	Level7&8	802.11 ac (VHT80)	Left Edge	10	42	5210	0.10	0.013	12.23	13.00	1.194	87.90	1.138	0.018	/
	5.2G	Level7&8	802.11 ac (VHT80)	Top Edge	10	42	5210	-0.04	0.201	12.23	13.00	1.194	87.90	1.138	0.273	/
Ant.8	5.8G	Level6	802.11 ac (VHT80)	Front Side	10	155	5775	-0.07	0.198	16.92	17.00	1.019	87.90	1.138	0.230	/
	5.8G	Level6	802.11 ac (VHT80)	Back Side	10	155	5775	0.02	0.268	16.92	17.00	1.019	87.90	1.138	0.311	/
	5.8G	Level6	802.11 ac (VHT80)	Left Edge	10	155	5775	-0.02	0.097	16.92	17.00	1.019	87.90	1.138	0.112	/
	5.8G	Level6	802.11 ac (VHT80)	Top Edge	10	155	5775	-0.06	0.844	16.92	17.00	1.019	87.90	1.138	<b>0.979</b>	76#
Ant.8	5.8G	Level7&8	802.11 ac (VHT80)	Front Side	10	155	5775	-0.05	0.097	13.95	14.00	1.012	87.90	1.138	0.112	/
	5.8G	Level7&8	802.11 ac (VHT80)	Back Side	10	155	5775	0.09	0.132	13.95	14.00	1.012	87.90	1.138	0.152	/
	5.8G	Level7&8	802.11 ac (VHT80)	Left Edge	10	155	5775	-0.09	0.047	13.95	14.00	1.012	87.90	1.138	0.054	/
	5.8G	Level7&8	802.11 ac (VHT80)	Top Edge	10	155	5775	-0.03	0.421	13.95	14.00	1.012	87.90	1.138	0.485	/

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 n(HT40)	Front Side	0	54	5270	0.01	0.375	15.03	16.00	1.250	94.60	1.057	0.495	/
	5.3G	Level5&6	802.11 n(HT40)	Back Side	0	54	5270	0.00	0.338	15.03	16.00	1.250	94.60	1.057	0.447	/
	5.3G	Level5&6	802.11 n(HT40)	Left Edge	0	54	5270	0.05	0.053	15.03	16.00	1.250	94.60	1.057	0.070	/
	5.3G	Level5&6	802.11 n(HT40)	Top Edge	0	54	5270	0.05	1.290	15.03	16.00	1.250	94.60	1.057	<b>1.704</b>	77#
Ant.8	5.3G	Level7&8	802.11 ac (VHT80)	Front Side	0	58	5290	-0.02	0.187	12.08	13.00	1.236	87.90	1.138	0.263	/
	5.3G	Level7&8	802.11 ac (VHT80)	Back Side	0	58	5290	-0.10	0.171	12.08	13.00	1.236	87.90	1.138	0.241	/
	5.3G	Level7&8	802.11 ac (VHT80)	Left Edge	0	58	5290	0.02	0.028	12.08	13.00	1.236	87.90	1.138	0.039	/
	5.3G	Level7&8	802.11 ac (VHT80)	Top Edge	0	58	5290	0.10	0.645	12.08	13.00	1.236	87.90	1.138	0.907	/
Ant.8	5.6G	Level5&6	802.11 n(HT40)	Front Side	0	118	5590	-0.08	0.535	14.91	16.00	1.285	94.60	1.057	0.727	/
	5.6G	Level5&6	802.11 n(HT40)	Back Side	0	118	5590	-0.03	0.561	14.91	16.00	1.285	94.60	1.057	0.762	/
	5.6G	Level5&6	802.11 n(HT40)	Left Edge	0	118	5590	-0.05	0.107	14.91	16.00	1.285	94.60	1.057	0.145	/
	5.6G	Level5&6	802.11 n(HT40)	Top Edge	0	118	5590	0.05	1.450	14.91	16.00	1.285	94.60	1.057	<b>1.969</b>	78#
Ant.8	5.6G	Level7&8	802.11 ac (VHT80)	Front Side	0	106	5530	-0.04	0.272	12.19	13.00	1.205	87.90	1.138	0.373	/
	5.6G	Level7&8	802.11 ac (VHT80)	Back Side	0	106	5530	0.04	0.285	12.19	13.00	1.205	87.90	1.138	0.391	/
	5.6G	Level7&8	802.11 ac (VHT80)	Left Edge	0	106	5530	-0.06	0.053	12.19	13.00	1.205	87.90	1.138	0.073	/
	5.6G	Level7&8	802.11 ac (VHT80)	Top Edge	0	106	5530	0.03	0.730	12.19	13.00	1.205	87.90	1.138	1.001	/
Ant.8	5.8G	Level5&6	802.11 ac (VHT80)	Front Side	0	155	5775	0.00	1.290	16.92	17.00	1.019	87.90	1.138	1.496	/
	5.8G	Level5&6	802.11 ac (VHT80)	Back Side	0	155	5775	0.01	0.825	16.92	17.00	1.019	87.90	1.138	0.957	/
	5.8G	Level5&6	802.11 ac (VHT80)	Left Edge	0	155	5775	-0.07	0.320	16.92	17.00	1.019	87.90	1.138	0.371	/

	5.8G	Level5&6	802.11 ac (VHT80)	Top Edge	0	155	5775	0.09	1.760	16.92	17.00	1.019	87.90	1.138	<b>2.041</b>	79#
Ant.8	5.8G	Level7&8	802.11 ac (VHT80)	Front Side	0	155	5775	0.01	0.648	13.95	14.00	1.012	87.90	1.138	0.746	/
	5.8G	Level7&8	802.11 ac (VHT80)	Back Side	0	155	5775	0.02	0.465	13.95	14.00	1.012	87.90	1.138	0.536	/
	5.8G	Level7&8	802.11 ac (VHT80)	Left Edge	0	155	5775	-0.05	0.163	13.95	14.00	1.012	87.90	1.138	0.188	/
	5.8G	Level7&8	802.11 ac (VHT80)	Top Edge	0	155	5775	0.02	0.875	13.95	14.00	1.012	87.90	1.138	1.008	/

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.9	DH5	Left Cheek	0	78	2480	0.05	0.212	15.08	17.00	1.556	76.61	1.305	<b>0.430</b>	80#
Ant.9	DH5	Left Tilt	0	78	2480	0.00	0.209	15.08	17.00	1.556	76.61	1.305	0.424	/
Ant.9	DH5	Right Cheek	0	78	2480	-0.03	0.154	15.08	17.00	1.556	76.61	1.305	0.313	/
Ant.9	DH5	Right Tilt	0	78	2480	0.11	0.106	15.08	17.00	1.556	76.61	1.305	0.215	/
<b>Body-worn</b>														
Ant.9	DH5	Front Side	15	78	2480	-0.10	0.040	15.08	17.00	1.556	76.61	1.305	0.081	/
Ant.9	DH5	Back Side	15	78	2480	-0.13	0.043	15.08	17.00	1.556	76.61	1.305	<b>0.087</b>	81#
<b>Hotspot</b>														
Ant.9	DH5	Front Side	10	78	2480	0.05	0.098	15.08	17.00	1.556	76.61	1.305	0.199	/
Ant.9	DH5	Back Side	10	78	2480	-0.17	0.107	15.08	17.00	1.556	76.61	1.305	<b>0.217</b>	82#
Ant.9	DH5	Left Edge	10	78	2480	0.10	0.095	15.08	17.00	1.556	76.61	1.305	0.193	/
Ant.9	DH5	Top Edge	10	78	2480	-0.06	0.064	15.08	17.00	1.556	76.61	1.305	0.130	/
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.9	DH5	Front Side	0	78	2480	-0.06	0.147	15.08	17.00	1.556	76.61	1.305	0.298	/
Ant.9	DH5	Back Side	0	78	2480	-0.05	0.282	15.08	17.00	1.556	76.61	1.305	<b>0.573</b>	83#
Ant.9	DH5	Left Edge	0	78	2480	-0.10	0.158	15.08	17.00	1.556	76.61	1.305	0.321	/
Ant.9	DH5	Top Edge	0	78	2480	-0.14	0.229	15.08	17.00	1.556	76.61	1.305	0.465	/
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.

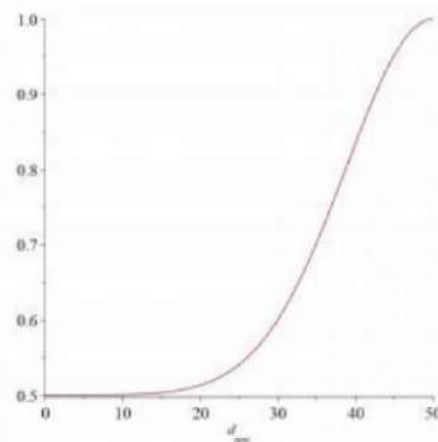
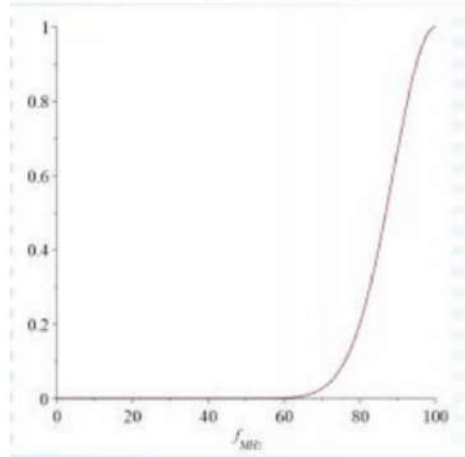
$$P_{7X}(d_{mm}, f_{MHz}) := \begin{cases} P_{6S}(d_{mm}, f_{MHz}) & f_{MHz} \leq 100 \\ P_{6to7}(d_{mm}, f_{MHz}) & 100 < f_{MHz} \leq 300 \\ P_7(d_{mm}, f_{MHz}) & 300 < f_{MHz} \end{cases}$$

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
Sf(fMHz)	0.000568861	Sd (dmm)	0.50015177
P6s(mW)	443.1257378		
Note: SAR testing is required when the distance is 5mm and the power is greater than 443.13mW.			

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

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

- a) Measure the conducted output power (in dBm) using the detector specified (see guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
- b) Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the ERP level (see guidance on determining the applicable antenna gain)
- c) Add the appropriate maximum ground reflection factor to the 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	53.68	10	6	-25.12

Note:

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

2.  $ERP = 53.68 + 20 \cdot \log(10) - 104.8 + 6 = -25.12$  (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)	-25.12	Pmeas.(mW)	0.00308
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 Ratio
2610	LTE Band38	Head	Right Tilt	0.852	Yes	0.850	1.00
2636.5	LTE Band41	Head	Right Tilt	0.931	Yes	0.914	1.02
2525	NR n7	Head	Right Tilt	0.858	Yes	0.846	1.01
2595	NR n38	Head	Right Tilt	0.865	Yes	0.859	1.01
5775	WIFI 5.8GHz	Head	Left Tilt	0.823	Yes	0.808	1.02
5775	WIFI 5.8GHz	Hotspot	Top Edge	0.844	Yes	0.842	1.00

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	5G WIFI + BT	Yes	Yes	Yes	Yes
2	WWAN + BT	Yes	Yes	Yes	Yes
3	WWAN + 2.4G WIFI	Yes	Yes	Yes	Yes
4	WWAN + 5G WIFI	Yes	Yes	Yes	Yes
5	WWAN + 5G WIFI + 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. WiFi 2.4G and Bluetooth can't transmit simultaneously.
3. The maximum SAR summation is calculated based on the same configuration and test position.

## 13.2 Sum SAR of Simultaneous Transmission

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

Position	Stand alone SAR		SUM SAR
	1	2	
	5GWIFI Max.	Bluetooth	1+2
	Level2		
Left Cheek	0.843	0.430	1.273
Left Tilt	1.142	0.424	<b>1.566</b>
Right Cheek	0.630	0.313	0.943
Right Tilt	0.430	0.215	0.645

Note:

1: The highest Summed 1g SAR is 1.566 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

### 13.2.2 Body 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	0.195	0.081	0.276
Back Side 15mm	0.297	0.087	<b>0.384</b>

Note:

1: The highest Summed 1g SAR is 0.384 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	0.230	0.199	0.429
Back Side 10mm	0.311	0.217	0.528
Left Edge 10mm	0.112	0.193	0.305
Right Edge 10mm	0.000	0.000	0.000
Top Edge 10mm	0.979	0.130	<b>1.109</b>
Bottom Edge 10mm	0.000	0.000	0.000

Note:

1: The highest Summed 1g SAR is 1.109 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	1.496	0.298	1.794
Back Side 0mm	0.957	0.573	1.530
Left Edge 0mm	0.371	0.321	0.692
Right Edge 0mm	0.000	0.000	0.000
Top Edge 0mm	2.041	0.465	<b>2.506</b>
Bottom Edge 0mm	0.000	0.000	0.000

## Note:

1: The highest Summed 10g SAR is 2.506 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	5	1+5	2+3	2+4+5
			WWAN	WWAN	2.4GWIFI	5GWIFI Max.	Bluetooth			
			State5	State10	Level3	Level3/4				
GSM850	Ant.1	Left Cheek	0.484	0.484	0.530	0.363	0.430	0.914	1.014	1.277
		Left Tilt	0.073	0.073	0.496	0.582	0.424	0.497	0.569	1.079
		Right Cheek	0.323	0.323	0.387	0.281	0.313	0.636	0.710	0.917
		Right Tilt	0.052	0.052	0.265	0.194	0.215	0.267	0.317	0.461
GSM850	Ant.0	Left Cheek	0.216	0.216	0.530	0.363	0.430	0.646	0.746	1.009
		Left Tilt	0.120	0.120	0.496	0.582	0.424	0.544	0.616	1.126
		Right Cheek	0.138	0.138	0.387	0.281	0.313	0.451	0.525	0.732
		Right Tilt	0.061	0.061	0.265	0.194	0.215	0.276	0.326	0.470
GSM1900	Ant.3	Left Cheek	0.396	0.309	0.530	0.363	0.430	0.826	0.839	1.102
		Left Tilt	0.450	0.355	0.496	0.582	0.424	0.874	0.851	1.361
		Right Cheek	0.930	0.719	0.387	0.281	0.313	1.243	1.106	1.313
		Right Tilt	1.074	0.828	0.265	0.194	0.215	1.289	1.093	1.237
GSM1900	Ant.0	Left Cheek	0.051	0.051	0.530	0.363	0.430	0.481	0.581	0.844
		Left Tilt	0.028	0.028	0.496	0.582	0.424	0.452	0.524	1.034
		Right Cheek	0.046	0.046	0.387	0.281	0.313	0.359	0.433	0.640
		Right Tilt	0.026	0.026	0.265	0.194	0.215	0.241	0.291	0.435
WCDMA B2	Ant.3	Left Cheek	0.252	0.214	0.530	0.363	0.430	0.682	0.744	1.007
		Left Tilt	0.294	0.246	0.496	0.582	0.424	0.718	0.742	1.252
		Right Cheek	0.740	0.619	0.387	0.281	0.313	1.053	1.006	1.213
		Right Tilt	0.867	0.727	0.265	0.194	0.215	1.082	0.992	1.136
WCDMA B2	Ant.0	Left Cheek	0.059	0.059	0.530	0.363	0.430	0.489	0.589	0.852
		Left Tilt	0.037	0.037	0.496	0.582	0.424	0.461	0.533	1.043
		Right Cheek	0.052	0.052	0.387	0.281	0.313	0.365	0.439	0.646
		Right Tilt	0.032	0.032	0.265	0.194	0.215	0.247	0.297	0.441
WCDMA B4	Ant.1	Left Cheek	0.461	0.388	0.530	0.363	0.430	0.891	0.918	1.181
		Left Tilt	0.508	0.430	0.496	0.582	0.424	0.932	0.926	1.436
		Right Cheek	0.746	0.625	0.387	0.281	0.313	1.059	1.012	1.219
		Right Tilt	0.812	0.682	0.265	0.194	0.215	1.027	0.947	1.091
WCDMA B4	Ant.0	Left Cheek	0.121	0.121	0.530	0.363	0.430	0.551	0.651	0.914
		Left Tilt	0.067	0.067	0.496	0.582	0.424	0.491	0.563	1.073
		Right Cheek	0.103	0.103	0.387	0.281	0.313	0.416	0.490	0.697
		Right Tilt	0.054	0.054	0.265	0.194	0.215	0.269	0.319	0.463
WCDMA B5	Ant.1	Left Cheek	0.933	0.753	0.530	0.363	0.430	1.363	1.283	1.546
		Left Tilt	0.087	0.074	0.496	0.582	0.424	0.511	0.570	1.080
		Right Cheek	0.524	0.456	0.387	0.281	0.313	0.837	0.843	1.050
		Right Tilt	0.071	0.063	0.265	0.194	0.215	0.286	0.328	0.472
WCDMA B5	Ant.0	Left Cheek	0.239	0.239	0.530	0.363	0.430	0.669	0.769	1.032



		Left Tilt	0.133	0.133	0.496	0.582	0.424	0.557	0.629	1.139
		Right Cheek	0.211	0.211	0.387	0.281	0.313	0.524	0.598	0.805
		Right Tilt	0.096	0.096	0.265	0.194	0.215	0.311	0.361	0.505
LTE B2	Ant.3	Left Cheek	0.429	0.327	0.530	0.363	0.430	0.859	0.857	1.120
		Left Tilt	0.491	0.383	0.496	0.582	0.424	0.915	0.879	1.389
		Right Cheek	0.699	0.554	0.387	0.281	0.313	1.012	0.941	1.148
		Right Tilt	0.844	0.644	0.265	0.194	0.215	1.059	0.909	1.053
LTE B2	Ant.0	Left Cheek	0.130	0.130	0.530	0.363	0.430	0.560	0.660	0.923
		Left Tilt	0.076	0.076	0.496	0.582	0.424	0.500	0.572	1.082
		Right Cheek	0.113	0.113	0.387	0.281	0.313	0.426	0.500	0.707
		Right Tilt	0.081	0.081	0.265	0.194	0.215	0.296	0.346	0.490
LTE B4	Ant.3	Left Cheek	0.465	0.465	0.530	0.363	0.430	0.895	0.995	1.258
		Left Tilt	0.538	0.538	0.496	0.582	0.424	0.962	1.034	1.544
		Right Cheek	0.780	0.780	0.387	0.281	0.313	1.093	1.167	1.374
		Right Tilt	0.857	0.857	0.265	0.194	0.215	1.072	1.122	1.266
LTE B4	Ant.0	Left Cheek	0.109	0.109	0.530	0.363	0.430	0.539	0.639	0.902
		Left Tilt	0.052	0.052	0.496	0.582	0.424	0.476	0.548	1.058
		Right Cheek	0.092	0.092	0.387	0.281	0.313	0.405	0.479	0.686
		Right Tilt	0.044	0.044	0.265	0.194	0.215	0.259	0.309	0.453
LTE B5	Ant.1	Left Cheek	0.611	0.611	0.530	0.363	0.430	1.041	1.141	1.404
		Left Tilt	0.064	0.064	0.496	0.582	0.424	0.488	0.560	1.070
		Right Cheek	0.460	0.460	0.387	0.281	0.313	0.773	0.847	1.054
		Right Tilt	0.054	0.054	0.265	0.194	0.215	0.269	0.319	0.463
LTE B5	Ant.0	Left Cheek	0.218	0.218	0.530	0.363	0.430	0.648	0.748	1.011
		Left Tilt	0.113	0.113	0.496	0.582	0.424	0.537	0.609	1.119
		Right Cheek	0.195	0.195	0.387	0.281	0.313	0.508	0.582	0.789
		Right Tilt	0.091	0.091	0.265	0.194	0.215	0.306	0.356	0.500
LTE B7	Ant.3	Left Cheek	0.365	0.321	0.530	0.363	0.430	0.795	0.851	1.114
		Left Tilt	0.437	0.383	0.496	0.582	0.424	0.861	0.879	1.389
		Right Cheek	0.794	0.695	0.387	0.281	0.313	1.107	1.082	1.289
		Right Tilt	0.992	0.884	0.265	0.194	0.215	1.207	1.149	1.293
LTE B7	Ant.4	Left Cheek	0.151	0.151	0.530	0.363	0.430	0.581	0.681	0.944
		Left Tilt	0.103	0.103	0.496	0.582	0.424	0.527	0.599	1.109
		Right Cheek	0.444	0.444	0.387	0.281	0.313	0.757	0.831	1.038
		Right Tilt	0.237	0.237	0.265	0.194	0.215	0.452	0.502	0.646
LTE B7	Ant.0	Left Cheek	0.257	0.257	0.530	0.363	0.430	0.687	0.787	1.050
		Left Tilt	0.168	0.168	0.496	0.582	0.424	0.592	0.664	1.174
		Right Cheek	0.215	0.215	0.387	0.281	0.313	0.528	0.602	0.809
		Right Tilt	0.139	0.139	0.265	0.194	0.215	0.354	0.404	0.548
LTE B12	Ant.1	Left Cheek	0.521	0.521	0.530	0.363	0.430	0.951	1.051	1.314
		Left Tilt	0.074	0.074	0.496	0.582	0.424	0.498	0.570	1.080
		Right Cheek	0.325	0.325	0.387	0.281	0.313	0.638	0.712	0.919
		Right Tilt	0.033	0.033	0.265	0.194	0.215	0.248	0.298	0.442

LTE B12	Ant.0	Left Cheek	0.078	0.078	0.530	0.363	0.430	0.508	0.608	0.871
		Left Tilt	0.032	0.032	0.496	0.582	0.424	0.456	0.528	1.038
		Right Cheek	0.064	0.064	0.387	0.281	0.313	0.377	0.451	0.658
		Right Tilt	0.026	0.026	0.265	0.194	0.215	0.241	0.291	0.435
LTE B13	Ant.1	Left Cheek	0.979	0.745	0.530	0.363	0.430	1.409	1.275	1.538
		Left Tilt	0.119	0.106	0.496	0.582	0.424	0.543	0.602	1.112
		Right Cheek	0.610	0.532	0.387	0.281	0.313	0.923	0.919	1.126
		Right Tilt	0.060	0.209	0.265	0.194	0.215	0.275	0.474	0.618
LTE B13	Ant.0	Left Cheek	0.209	0.209	0.530	0.363	0.430	0.639	0.739	1.002
		Left Tilt	0.116	0.116	0.496	0.582	0.424	0.540	0.612	1.122
		Right Cheek	0.178	0.178	0.387	0.281	0.313	0.491	0.565	0.772
		Right Tilt	0.096	0.096	0.265	0.194	0.215	0.311	0.361	0.505
LTE B17	Ant.1	Left Cheek	0.540	0.540	0.530	0.363	0.430	0.970	1.070	1.333
		Left Tilt	0.065	0.065	0.496	0.582	0.424	0.489	0.561	1.071
		Right Cheek	0.292	0.292	0.387	0.281	0.313	0.605	0.679	0.886
		Right Tilt	0.030	0.030	0.265	0.194	0.215	0.245	0.295	0.439
LTE B17	Ant.0	Left Cheek	0.073	0.073	0.530	0.363	0.430	0.503	0.603	0.866
		Left Tilt	0.030	0.030	0.496	0.582	0.424	0.454	0.526	1.036
		Right Cheek	0.060	0.060	0.387	0.281	0.313	0.373	0.447	0.654
		Right Tilt	0.024	0.024	0.265	0.194	0.215	0.239	0.289	0.433
LTE B26	Ant.1	Left Cheek	0.395	0.395	0.530	0.363	0.430	0.825	0.925	1.188
		Left Tilt	0.073	0.073	0.496	0.582	0.424	0.497	0.569	1.079
		Right Cheek	0.296	0.296	0.387	0.281	0.313	0.609	0.683	0.890
		Right Tilt	0.038	0.038	0.265	0.194	0.215	0.253	0.303	0.447
LTE B26	Ant.0	Left Cheek	0.198	0.198	0.530	0.363	0.430	0.628	0.728	0.991
		Left Tilt	0.109	0.109	0.496	0.582	0.424	0.533	0.605	1.115
		Right Cheek	0.171	0.171	0.387	0.281	0.313	0.484	0.558	0.765
		Right Tilt	0.094	0.094	0.265	0.194	0.215	0.309	0.359	0.503
LTE B66	Ant.3	Left Cheek	0.414	0.329	0.530	0.363	0.430	0.844	0.859	1.122
		Left Tilt	0.469	0.375	0.496	0.582	0.424	0.893	0.871	1.381
		Right Cheek	0.662	0.531	0.387	0.281	0.313	0.975	0.918	1.125
		Right Tilt	0.727	0.579	0.265	0.194	0.215	0.942	0.844	0.988
LTE B66	Ant.0	Left Cheek	0.106	0.106	0.530	0.363	0.430	0.536	0.636	0.899
		Left Tilt	0.051	0.051	0.496	0.582	0.424	0.475	0.547	1.057
		Right Cheek	0.094	0.094	0.387	0.281	0.313	0.407	0.481	0.688
		Right Tilt	0.043	0.043	0.265	0.194	0.215	0.258	0.308	0.452
LTE B38	Ant.3	Left Cheek	0.373	0.352	0.530	0.363	0.430	0.803	0.882	1.145
		Left Tilt	0.436	0.413	0.496	0.582	0.424	0.860	0.909	1.419
		Right Cheek	0.775	0.737	0.387	0.281	0.313	1.088	1.124	1.331
		Right Tilt	1.144	1.040	0.265	0.194	0.215	1.359	1.305	1.449
LTE B38	Ant.4	Left Cheek	0.073	0.073	0.530	0.363	0.430	0.503	0.603	0.866
		Left Tilt	0.068	0.068	0.496	0.582	0.424	0.492	0.564	1.074
		Right Cheek	0.191	0.191	0.387	0.281	0.313	0.504	0.578	0.785

		Right Tilt	0.102	0.102	0.265	0.194	0.215	0.317	0.367	0.511
LTE B38	Ant.0	Left Cheek	0.130	0.130	0.530	0.363	0.430	0.560	0.660	0.923
		Left Tilt	0.054	0.054	0.496	0.582	0.424	0.478	0.550	1.060
		Right Cheek	0.056	0.056	0.387	0.281	0.313	0.369	0.443	0.650
		Right Tilt	0.031	0.031	0.265	0.194	0.215	0.246	0.296	0.440
LTE B41	Ant.3	Left Cheek	0.357	0.320	0.530	0.363	0.430	0.787	0.850	1.113
		Left Tilt	0.439	0.395	0.496	0.582	0.424	0.863	0.891	1.401
		Right Cheek	0.797	0.684	0.387	0.281	0.313	1.110	1.071	1.278
		Right Tilt	1.107	0.998	0.265	0.194	0.215	1.322	1.263	1.407
LTE B41	Ant.4	Left Cheek	0.068	0.068	0.530	0.363	0.430	0.498	0.598	0.861
		Left Tilt	0.064	0.064	0.496	0.582	0.424	0.488	0.560	1.070
		Right Cheek	0.180	0.180	0.387	0.281	0.313	0.493	0.567	0.774
		Right Tilt	0.096	0.096	0.265	0.194	0.215	0.311	0.361	0.505
LTE B41	Ant.0	Left Cheek	0.122	0.122	0.530	0.363	0.430	0.552	0.652	0.915
		Left Tilt	0.086	0.086	0.496	0.582	0.424	0.510	0.582	1.092
		Right Cheek	0.060	0.060	0.387	0.281	0.313	0.373	0.447	0.654
		Right Tilt	0.034	0.034	0.265	0.194	0.215	0.249	0.299	0.443
n5	Ant.1	Left Cheek	0.475	0.475	0.530	0.363	0.430	0.905	1.005	1.268
		Left Tilt	0.065	0.065	0.496	0.582	0.424	0.489	0.561	1.071
		Right Cheek	0.265	0.265	0.387	0.281	0.313	0.578	0.652	0.859
		Right Tilt	0.033	0.033	0.265	0.194	0.215	0.248	0.298	0.442
n5	Ant.0	Left Cheek	0.183	0.183	0.530	0.363	0.430	0.613	0.713	0.976
		Left Tilt	0.103	0.103	0.496	0.582	0.424	0.527	0.599	1.109
		Right Cheek	0.160	0.160	0.387	0.281	0.313	0.473	0.547	0.754
		Right Tilt	0.090	0.090	0.265	0.194	0.215	0.305	0.355	0.499
n7	Ant.3	Left Cheek	0.483	0.431	0.530	0.363	0.430	0.913	0.961	1.224
		Left Tilt	0.526	0.465	0.496	0.582	0.424	0.950	0.961	1.471
		Right Cheek	0.795	0.701	0.387	0.281	0.313	1.108	1.088	1.295
		Right Tilt	1.155	1.019	0.265	0.194	0.215	1.370	1.284	1.428
n7	Ant.4	Left Cheek	0.174	0.174	0.530	0.363	0.430	0.604	0.704	0.967
		Left Tilt	0.119	0.119	0.496	0.582	0.424	0.543	0.615	1.125
		Right Cheek	0.518	0.518	0.387	0.281	0.313	0.831	0.905	1.112
		Right Tilt	0.279	0.279	0.265	0.194	0.215	0.494	0.544	0.688
n7	Ant.0	Left Cheek	0.264	0.264	0.530	0.363	0.430	0.694	0.794	1.057
		Left Tilt	0.172	0.172	0.496	0.582	0.424	0.596	0.668	1.178
		Right Cheek	0.221	0.221	0.387	0.281	0.313	0.534	0.608	0.815
		Right Tilt	0.140	0.140	0.265	0.194	0.215	0.355	0.405	0.549
n66	Ant.3	Left Cheek	0.613	0.483	0.530	0.363	0.430	1.043	1.013	1.276
		Left Tilt	0.695	0.543	0.496	0.582	0.424	1.119	1.039	<b>1.549</b>
		Right Cheek	0.972	0.765	0.387	0.281	0.313	1.285	1.152	1.359
		Right Tilt	1.133	0.905	0.265	0.194	0.215	1.348	1.170	1.314
n66	Ant.0	Left Cheek	0.115	0.115	0.530	0.363	0.430	0.545	0.645	0.908
		Left Tilt	0.053	0.053	0.496	0.582	0.424	0.477	0.549	1.059

		Right Cheek	0.100	0.100	0.387	0.281	0.313	0.413	0.487	0.694
		Right Tilt	0.044	0.044	0.265	0.194	0.215	0.259	0.309	0.453
n38	Ant.3	Left Cheek	0.388	0.342	0.530	0.363	0.430	0.818	0.872	1.135
		Left Tilt	0.450	0.393	0.496	0.582	0.424	0.874	0.889	1.399
		Right Cheek	0.797	0.715	0.387	0.281	0.313	1.110	1.102	1.309
		Right Tilt	1.137	1.018	0.265	0.194	0.215	1.352	1.283	1.427
n38	Ant.4	Left Cheek	0.090	0.090	0.530	0.363	0.430	0.520	0.620	0.883
		Left Tilt	0.085	0.085	0.496	0.582	0.424	0.509	0.581	1.091
		Right Cheek	0.230	0.230	0.387	0.281	0.313	0.543	0.617	0.824
		Right Tilt	0.124	0.124	0.265	0.194	0.215	0.339	0.389	0.533
n38	Ant.0	Left Cheek	0.172	0.172	0.530	0.363	0.430	0.602	0.702	0.965
		Left Tilt	0.070	0.070	0.496	0.582	0.424	0.494	0.566	1.076
		Right Cheek	0.073	0.073	0.387	0.281	0.313	0.386	0.460	0.667
		Right Tilt	0.039	0.039	0.265	0.194	0.215	0.254	0.304	0.448
n41	Ant.3	Left Cheek	0.302	0.275	0.530	0.363	0.430	0.732	0.805	1.068
		Left Tilt	0.377	0.347	0.496	0.582	0.424	0.801	0.843	1.353
		Right Cheek	0.692	0.630	0.387	0.281	0.313	1.005	1.017	1.224
		Right Tilt	0.822	0.745	0.265	0.194	0.215	1.037	1.010	1.154
n41	Ant.4	Left Cheek	0.101	0.101	0.530	0.363	0.430	0.531	0.631	0.894
		Left Tilt	0.094	0.094	0.496	0.582	0.424	0.518	0.590	1.100
		Right Cheek	0.269	0.269	0.387	0.281	0.313	0.582	0.656	0.863
		Right Tilt	0.144	0.144	0.265	0.194	0.215	0.359	0.409	0.553
n41	Ant.0	Left Cheek	0.181	0.181	0.530	0.363	0.430	0.611	0.711	0.974
		Left Tilt	0.110	0.110	0.496	0.582	0.424	0.534	0.606	1.116
		Right Cheek	0.088	0.088	0.387	0.281	0.313	0.401	0.475	0.682
		Right Tilt	0.048	0.048	0.265	0.194	0.215	0.263	0.313	0.457

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 1g SAR is 1.549 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	5	1+5	2+3	2+4+5
			WWAN	WWAN	2.4GWIFI	5GWIFI Max.	Bluetooth			
			State3	State8	Level7	Level7/8				
GSM850	Ant.1	Front Side 15mm	0.130	0.130	0.210	0.099	0.081	0.211	0.340	0.310
		Back Side 15mm	0.176	0.176	0.241	0.151	0.087	0.263	0.417	0.414
GSM850	Ant.0	Front Side 15mm	0.155	0.155	0.210	0.099	0.081	0.236	0.365	0.335
		Back Side 15mm	0.179	0.179	0.241	0.151	0.087	0.266	0.420	0.417
GSM1900	Ant.3	Front Side 15mm	0.170	0.170	0.210	0.099	0.081	0.251	0.380	0.350
		Back Side 15mm	0.141	0.141	0.241	0.151	0.087	0.228	0.382	0.379
GSM1900	Ant.0	Front Side 15mm	0.038	0.038	0.210	0.099	0.081	0.119	0.248	0.218
		Back Side 15mm	0.120	0.120	0.241	0.151	0.087	0.207	0.361	0.358
WCDMA B2	Ant.3	Front Side 15mm	0.158	0.143	0.210	0.099	0.081	0.239	0.353	0.323
		Back Side 15mm	0.150	0.135	0.241	0.151	0.087	0.237	0.376	0.373
WCDMA B2	Ant.0	Front Side 15mm	0.041	0.032	0.210	0.099	0.081	0.122	0.242	0.212
		Back Side 15mm	0.102	0.083	0.241	0.151	0.087	0.189	0.324	0.321
WCDMA B4	Ant.1	Front Side 15mm	0.148	0.130	0.210	0.099	0.081	0.229	0.340	0.310
		Back Side 15mm	0.178	0.157	0.241	0.151	0.087	0.265	0.398	0.395
WCDMA B4	Ant.0	Front Side 15mm	0.195	0.169	0.210	0.099	0.081	0.276	0.379	0.349
		Back Side 15mm	0.339	0.296	0.241	0.151	0.087	0.426	0.537	0.534
WCDMA B5	Ant.1	Front Side 15mm	0.160	0.160	0.210	0.099	0.081	0.241	0.370	0.340
		Back Side 15mm	0.180	0.180	0.241	0.151	0.087	0.267	0.421	0.418
WCDMA B5	Ant.0	Front Side 15mm	0.199	0.199	0.210	0.099	0.081	0.280	0.409	0.379
		Back Side 15mm	0.231	0.231	0.241	0.151	0.087	0.318	0.472	0.469
LTE B2	Ant.3	Front Side 15mm	0.144	0.131	0.210	0.099	0.081	0.225	0.341	0.311
		Back Side 15mm	0.127	0.098	0.241	0.151	0.087	0.214	0.339	0.336
LTE B2	Ant.0	Front Side 15mm	0.046	0.025	0.210	0.099	0.081	0.127	0.235	0.205
		Back Side 15mm	0.110	0.059	0.241	0.151	0.087	0.197	0.300	0.297
LTE B4	Ant.3	Front Side 15mm	0.224	0.196	0.210	0.099	0.081	0.305	0.406	0.376
		Back Side 15mm	0.250	0.226	0.241	0.151	0.087	0.337	0.467	0.464
LTE B4	Ant.0	Front Side 15mm	0.179	0.162	0.210	0.099	0.081	0.260	0.372	0.342
		Back Side 15mm	0.305	0.280	0.241	0.151	0.087	0.392	0.521	0.518
LTE B5	Ant.1	Front Side 15mm	0.098	0.098	0.210	0.099	0.081	0.179	0.308	0.278
		Back Side 15mm	0.110	0.110	0.241	0.151	0.087	0.197	0.351	0.348
LTE B5	Ant.0	Front Side 15mm	0.174	0.174	0.210	0.099	0.081	0.255	0.384	0.354
		Back Side 15mm	0.204	0.204	0.241	0.151	0.087	0.291	0.445	0.442
LTE B7	Ant.3	Front Side 15mm	0.076	0.078	0.210	0.099	0.081	0.157	0.288	0.258
		Back Side 15mm	0.071	0.074	0.241	0.151	0.087	0.158	0.315	0.312
LTE B7	Ant.4	Front Side 15mm	0.056	0.056	0.210	0.099	0.081	0.137	0.266	0.236
		Back Side 15mm	0.186	0.186	0.241	0.151	0.087	0.273	0.427	0.424

LTE B7	Ant.0	Front Side 15mm	0.313	0.245	0.210	0.099	0.081	0.394	0.455	0.425
		Back Side 15mm	0.332	0.261	0.241	0.151	0.087	0.419	0.502	0.499
LTE B12	Ant.1	Front Side 15mm	0.124	0.124	0.210	0.099	0.081	0.205	0.334	0.304
		Back Side 15mm	0.146	0.146	0.241	0.151	0.087	0.233	0.387	0.384
LTE B12	Ant.0	Front Side 15mm	0.100	0.100	0.210	0.099	0.081	0.181	0.310	0.280
		Back Side 15mm	0.134	0.134	0.241	0.151	0.087	0.221	0.375	0.372
LTE B13	Ant.1	Front Side 15mm	0.197	0.197	0.210	0.099	0.081	0.278	0.407	0.377
		Back Side 15mm	0.223	0.223	0.241	0.151	0.087	0.310	0.464	0.461
LTE B13	Ant.0	Front Side 15mm	0.196	0.196	0.210	0.099	0.081	0.277	0.406	0.376
		Back Side 15mm	0.241	0.241	0.241	0.151	0.087	0.328	0.482	0.479
LTE B17	Ant.1	Front Side 15mm	0.134	0.134	0.210	0.099	0.081	0.215	0.344	0.314
		Back Side 15mm	0.152	0.152	0.241	0.151	0.087	0.239	0.393	0.390
LTE B17	Ant.0	Front Side 15mm	0.097	0.097	0.210	0.099	0.081	0.178	0.307	0.277
		Back Side 15mm	0.127	0.127	0.241	0.151	0.087	0.214	0.368	0.365
LTE B26	Ant.1	Front Side 15mm	0.068	0.068	0.210	0.099	0.081	0.149	0.278	0.248
		Back Side 15mm	0.075	0.075	0.241	0.151	0.087	0.162	0.316	0.313
LTE B26	Ant.0	Front Side 15mm	0.159	0.159	0.210	0.099	0.081	0.240	0.369	0.339
		Back Side 15mm	0.185	0.185	0.241	0.151	0.087	0.272	0.426	0.423
LTE B66	Ant.3	Front Side 15mm	0.292	0.257	0.210	0.099	0.081	0.373	0.467	0.437
		Back Side 15mm	0.322	0.282	0.241	0.151	0.087	0.409	0.523	0.520
LTE B66	Ant.0	Front Side 15mm	0.150	0.139	0.210	0.099	0.081	0.231	0.349	0.319
		Back Side 15mm	0.276	0.259	0.241	0.151	0.087	0.363	0.500	0.497
LTE B38	Ant.3	Front Side 15mm	0.066	0.064	0.210	0.099	0.081	0.147	0.274	0.244
		Back Side 15mm	0.068	0.063	0.241	0.151	0.087	0.155	0.304	0.301
LTE B38	Ant.4	Front Side 15mm	0.031	0.028	0.210	0.099	0.081	0.112	0.238	0.208
		Back Side 15mm	0.073	0.068	0.241	0.151	0.087	0.160	0.309	0.306
LTE B38	Ant.0	Front Side 15mm	0.130	0.130	0.210	0.099	0.081	0.211	0.340	0.310
		Back Side 15mm	0.128	0.128	0.241	0.151	0.087	0.215	0.369	0.366
LTE B41	Ant.3	Front Side 15mm	0.096	0.086	0.210	0.099	0.081	0.177	0.296	0.266
		Back Side 15mm	0.096	0.087	0.241	0.151	0.087	0.183	0.328	0.325
LTE B41	Ant.4	Front Side 15mm	0.040	0.040	0.210	0.099	0.081	0.121	0.250	0.220
		Back Side 15mm	0.095	0.099	0.241	0.151	0.087	0.182	0.340	0.337
LTE B41	Ant.0	Front Side 15mm	0.185	0.185	0.210	0.099	0.081	0.266	0.395	0.365
		Back Side 15mm	0.190	0.190	0.241	0.151	0.087	0.277	0.431	0.428
n5	Ant.1	Front Side 15mm	0.107	0.107	0.210	0.099	0.081	0.188	0.317	0.287
		Back Side 15mm	0.111	0.111	0.241	0.151	0.087	0.198	0.352	0.349
n5	Ant.0	Front Side 15mm	0.116	0.116	0.210	0.099	0.081	0.197	0.326	0.296
		Back Side 15mm	0.163	0.163	0.241	0.151	0.087	0.250	0.404	0.401
n7	Ant.3	Front Side 15mm	0.091	0.079	0.210	0.099	0.081	0.172	0.289	0.259
		Back Side 15mm	0.085	0.074	0.241	0.151	0.087	0.172	0.315	0.312
n7	Ant.4	Front Side 15mm	0.039	0.040	0.210	0.099	0.081	0.120	0.250	0.220
		Back Side 15mm	0.272	0.276	0.241	0.151	0.087	0.359	0.517	0.514
n7	Ant.0	Front Side 15mm	0.320	0.246	0.210	0.099	0.081	0.401	0.456	0.426

		Back Side 15mm	0.371	0.288	0.241	0.151	0.087	0.458	0.529	0.526
n66	Ant.3	Front Side 15mm	0.148	0.103	0.210	0.099	0.081	0.229	0.313	0.283
		Back Side 15mm	0.279	0.197	0.241	0.151	0.087	0.366	0.438	0.435
n66	Ant.0	Front Side 15mm	0.200	0.181	0.210	0.099	0.081	0.281	0.391	0.361
		Back Side 15mm	0.386	0.344	0.241	0.151	0.087	0.473	0.585	0.582
n38	Ant.3	Front Side 15mm	0.112	0.097	0.210	0.099	0.081	0.193	0.307	0.277
		Back Side 15mm	0.133	0.117	0.241	0.151	0.087	0.220	0.358	0.355
n38	Ant.4	Front Side 15mm	0.043	0.039	0.210	0.099	0.081	0.124	0.249	0.219
		Back Side 15mm	0.127	0.120	0.241	0.151	0.087	0.214	0.361	0.358
n38	Ant.0	Front Side 15mm	0.360	0.360	0.210	0.099	0.081	0.441	0.570	0.540
		Back Side 15mm	0.361	0.361	0.241	0.151	0.087	0.448	0.602	0.599
n41	Ant.3	Front Side 15mm	0.069	0.072	0.210	0.099	0.081	0.150	0.282	0.252
		Back Side 15mm	0.079	0.081	0.241	0.151	0.087	0.166	0.322	0.319
n41	Ant.4	Front Side 15mm	0.034	0.030	0.210	0.099	0.081	0.115	0.240	0.210
		Back Side 15mm	0.119	0.110	0.241	0.151	0.087	0.206	0.351	0.348
n41	Ant.0	Front Side 15mm	0.359	0.359	0.210	0.099	0.081	0.440	0.569	0.539
		Back Side 15mm	0.399	0.399	0.241	0.151	0.087	0.486	<b>0.640</b>	0.637

## 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 1g SAR is 0.640 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	5	1+5	2+3	2+4+5
			WWAN	WWAN	2.4GWIFI	5GWIFI Max.	Bluetooth			
			State3	State8	Level7	Level7/8				
GSM850	Ant.1	Front Side 10mm	0.188	0.188	0.562	0.112	0.199	0.387	0.750	0.499
		Back Side 10mm	0.241	0.241	0.571	0.152	0.217	0.458	0.812	0.610
		Left Edge 10mm	0.000	0.000	0.539	0.054	0.193	0.193	0.539	0.247
		Right Edge 10mm	0.141	0.141	0.000	0.000	0.000	0.141	0.141	0.141
		Top Edge 10mm	0.000	0.000	0.309	0.485	0.130	0.130	0.309	0.615
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GSM850	Ant.0	Front Side 10mm	0.166	0.166	0.562	0.112	0.199	0.365	0.728	0.477
		Back Side 10mm	0.243	0.243	0.571	0.152	0.217	0.460	0.814	0.612
		Left Edge 10mm	0.083	0.083	0.539	0.054	0.193	0.276	0.622	0.330
		Right Edge 10mm	0.143	0.143	0.000	0.000	0.000	0.143	0.143	0.143
		Top Edge 10mm	0.000	0.000	0.309	0.485	0.130	0.130	0.309	0.615
		Bottom Edge 10mm	0.240	0.240	0.000	0.000	0.000	0.240	0.240	0.240
GSM1900	Ant.3	Front Side 10mm	0.283	0.283	0.562	0.112	0.199	0.482	0.845	0.594
		Back Side 10mm	0.314	0.314	0.571	0.152	0.217	0.531	0.885	0.683
		Left Edge 10mm	0.000	0.000	0.539	0.054	0.193	0.193	0.539	0.247
		Right Edge 10mm	0.134	0.134	0.000	0.000	0.000	0.134	0.134	0.134
		Top Edge 10mm	0.489	0.489	0.309	0.485	0.130	0.619	0.798	1.104
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GSM1900	Ant.0	Front Side 10mm	0.081	0.081	0.562	0.112	0.199	0.280	0.643	0.392
		Back Side 10mm	0.235	0.235	0.571	0.152	0.217	0.452	0.806	0.604
		Left Edge 10mm	0.004	0.004	0.539	0.054	0.193	0.197	0.543	0.251
		Right Edge 10mm	0.004	0.004	0.000	0.000	0.000	0.004	0.004	0.004
		Top Edge 10mm	0.000	0.000	0.309	0.485	0.130	0.130	0.309	0.615
		Bottom Edge 10mm	0.297	0.297	0.000	0.000	0.000	0.297	0.297	0.297
WCDMA B2	Ant.3	Front Side 10mm	0.298	0.271	0.562	0.112	0.199	0.497	0.833	0.582
		Back Side 10mm	0.274	0.251	0.571	0.152	0.217	0.491	0.822	0.620
		Left Edge 10mm	0.000	0.000	0.539	0.054	0.193	0.193	0.539	0.247
		Right Edge 10mm	0.127	0.111	0.000	0.000	0.000	0.127	0.111	0.111
		Top Edge 10mm	0.501	0.452	0.309	0.485	0.130	0.631	0.761	1.067
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA B2	Ant.0	Front Side 10mm	0.091	0.077	0.562	0.112	0.199	0.290	0.639	0.388
		Back Side 10mm	0.282	0.226	0.571	0.152	0.217	0.499	0.797	0.595
		Left Edge 10mm	0.009	0.008	0.539	0.054	0.193	0.202	0.547	0.255
		Right Edge 10mm	0.010	0.009	0.000	0.000	0.000	0.010	0.009	0.009
		Top Edge 10mm	0.000	0.000	0.309	0.485	0.130	0.130	0.309	0.615
		Bottom Edge 10mm	0.340	0.286	0.000	0.000	0.000	0.340	0.286	0.286



WCDMA B4	Ant.1	Front Side 10mm	0.314	0.276	0.562	0.112	0.199	0.513	0.838	0.587
		Back Side 10mm	0.348	0.307	0.571	0.152	0.217	0.565	0.878	0.676
		Left Edge 10mm	0.000	0.000	0.539	0.054	0.193	0.193	0.539	0.247
		Right Edge 10mm	0.106	0.093	0.000	0.000	0.000	0.106	0.093	0.093
		Top Edge 10mm	0.452	0.411	0.309	0.485	0.130	0.582	0.720	1.026
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA B4	Ant.0	Front Side 10mm	0.317	0.277	0.562	0.112	0.199	0.516	0.839	0.588
		Back Side 10mm	0.591	0.522	0.571	0.152	0.217	0.808	1.093	0.891
		Left Edge 10mm	0.117	0.103	0.539	0.054	0.193	0.310	0.642	0.350
		Right Edge 10mm	0.049	0.040	0.000	0.000	0.000	0.049	0.040	0.040
		Top Edge 10mm	0.000	0.000	0.309	0.485	0.130	0.130	0.309	0.615
		Bottom Edge 10mm	0.656	0.577	0.000	0.000	0.000	0.656	0.577	0.577
WCDMA B5	Ant.1	Front Side 10mm	0.246	0.246	0.562	0.112	0.199	0.445	0.808	0.557
		Back Side 10mm	0.378	0.378	0.571	0.152	0.217	0.595	0.949	0.747
		Left Edge 10mm	0.000	0.000	0.539	0.054	0.193	0.193	0.539	0.247
		Right Edge 10mm	0.209	0.209	0.000	0.000	0.000	0.209	0.209	0.209
		Top Edge 10mm	0.240	0.240	0.309	0.485	0.130	0.370	0.549	0.855
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA B5	Ant.0	Front Side 10mm	0.240	0.240	0.562	0.112	0.199	0.439	0.802	0.551
		Back Side 10mm	0.370	0.370	0.571	0.152	0.217	0.587	0.941	0.739
		Left Edge 10mm	0.142	0.142	0.539	0.054	0.193	0.335	0.681	0.389
		Right Edge 10mm	0.210	0.210	0.000	0.000	0.000	0.210	0.210	0.210
		Top Edge 10mm	0.000	0.000	0.309	0.485	0.130	0.130	0.309	0.615
		Bottom Edge 10mm	0.353	0.353	0.000	0.000	0.000	0.353	0.353	0.353
LTE B2	Ant.3	Front Side 10mm	0.306	0.291	0.562	0.112	0.199	0.505	0.853	0.602
		Back Side 10mm	0.280	0.266	0.571	0.152	0.217	0.497	0.837	0.635
		Left Edge 10mm	0.000	0.000	0.539	0.054	0.193	0.193	0.539	0.247
		Right Edge 10mm	0.124	0.119	0.000	0.000	0.000	0.124	0.119	0.119
		Top Edge 10mm	0.454	0.429	0.309	0.485	0.130	0.584	0.738	1.044
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B2	Ant.0	Front Side 10mm	0.228	0.042	0.562	0.112	0.199	0.427	0.604	0.353
		Back Side 10mm	0.211	0.165	0.571	0.152	0.217	0.428	0.736	0.534
		Left Edge 10mm	0.195	0.004	0.539	0.054	0.193	0.388	0.543	0.251
		Right Edge 10mm	0.004	0.004	0.000	0.000	0.000	0.004	0.004	0.004
		Top Edge 10mm	0.000	0.000	0.309	0.485	0.130	0.130	0.309	0.615
		Bottom Edge 10mm	0.228	0.183	0.000	0.000	0.000	0.228	0.183	0.183
LTE B4	Ant.3	Front Side 10mm	0.339	0.298	0.562	0.112	0.199	0.538	0.860	0.609
		Back Side 10mm	0.380	0.338	0.571	0.152	0.217	0.597	0.909	0.707
		Left Edge 10mm	0.000	0.000	0.539	0.054	0.193	0.193	0.539	0.247
		Right Edge 10mm	0.113	0.103	0.000	0.000	0.000	0.113	0.103	0.103
		Top Edge 10mm	0.511	0.451	0.309	0.485	0.130	0.641	0.760	1.066
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B4	Ant.0	Front Side 10mm	0.625	0.280	0.562	0.112	0.199	0.824	0.842	0.591

		Back Side 10mm	0.572	0.534	0.571	0.152	0.217	0.789	1.105	0.903
		Left Edge 10mm	0.543	0.100	0.539	0.054	0.193	0.736	0.639	0.347
		Right Edge 10mm	0.101	0.051	0.000	0.000	0.000	0.101	0.051	0.051
		Top Edge 10mm	0.000	0.000	0.309	0.485	0.130	0.130	0.309	0.615
		Bottom Edge 10mm	0.625	0.584	0.000	0.000	0.000	0.625	0.584	0.584
LTE B5	Ant.1	Front Side 10mm	0.265	0.265	0.562	0.112	0.199	0.464	0.827	0.576
		Back Side 10mm	0.425	0.425	0.571	0.152	0.217	0.642	0.996	0.794
		Left Edge 10mm	0.000	0.000	0.539	0.054	0.193	0.193	0.539	0.247
		Right Edge 10mm	0.498	0.498	0.000	0.000	0.000	0.498	0.498	0.498
		Top Edge 10mm	0.278	0.278	0.309	0.485	0.130	0.408	0.587	0.893
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B5	Ant.0	Front Side 10mm	0.269	0.269	0.562	0.112	0.199	0.468	0.831	0.580
		Back Side 10mm	0.278	0.278	0.571	0.152	0.217	0.495	0.849	0.647
		Left Edge 10mm	0.207	0.207	0.539	0.054	0.193	0.400	0.746	0.454
		Right Edge 10mm	0.163	0.163	0.000	0.000	0.000	0.163	0.163	0.163
		Top Edge 10mm	0.000	0.000	0.309	0.485	0.130	0.130	0.309	0.615
		Bottom Edge 10mm	0.269	0.269	0.000	0.000	0.000	0.269	0.269	0.269
LTE B7	Ant.3	Front Side 10mm	0.175	0.182	0.562	0.112	0.199	0.374	0.744	0.493
		Back Side 10mm	0.152	0.159	0.571	0.152	0.217	0.369	0.730	0.528
		Left Edge 10mm	0.000	0.000	0.539	0.054	0.193	0.193	0.539	0.247
		Right Edge 10mm	0.080	0.082	0.000	0.000	0.000	0.080	0.082	0.082
		Top Edge 10mm	0.300	0.313	0.309	0.485	0.130	0.430	0.622	0.928
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B7	Ant.4	Front Side 10mm	0.053	0.477	0.562	0.112	0.199	0.252	1.039	0.788
		Back Side 10mm	0.462	0.524	0.571	0.152	0.217	0.679	1.095	0.893
		Left Edge 10mm	0.000	0.000	0.539	0.054	0.193	0.193	0.539	0.247
		Right Edge 10mm	0.310	0.416	0.000	0.000	0.000	0.310	0.416	0.416
		Top Edge 10mm	0.052	0.299	0.309	0.485	0.130	0.182	0.608	0.914
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B7	Ant.0	Front Side 10mm	0.477	0.370	0.562	0.112	0.199	0.676	0.932	0.681
		Back Side 10mm	0.578	0.407	0.571	0.152	0.217	0.795	0.978	0.776
		Left Edge 10mm	0.459	0.400	0.539	0.054	0.193	0.652	0.939	0.647
		Right Edge 10mm	0.299	0.288	0.000	0.000	0.000	0.299	0.288	0.288
		Top Edge 10mm	0.000	0.000	0.309	0.485	0.130	0.130	0.309	0.615
		Bottom Edge 10mm	0.374	0.281	0.000	0.000	0.000	0.374	0.281	0.281
LTE B12	Ant.1	Front Side 10mm	0.208	0.208	0.562	0.112	0.199	0.407	0.770	0.519
		Back Side 10mm	0.374	0.374	0.571	0.152	0.217	0.591	0.945	0.743
		Left Edge 10mm	0.000	0.000	0.539	0.054	0.193	0.193	0.539	0.247
		Right Edge 10mm	0.468	0.468	0.000	0.000	0.000	0.468	0.468	0.468
		Top Edge 10mm	0.173	0.173	0.309	0.485	0.130	0.303	0.482	0.788
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B12	Ant.0	Front Side 10mm	0.085	0.085	0.562	0.112	0.199	0.284	0.647	0.396
		Back Side 10mm	0.138	0.138	0.571	0.152	0.217	0.355	0.709	0.507

		Left Edge 10mm	0.114	0.114	0.539	0.054	0.193	0.307	0.653	0.361
		Right Edge 10mm	0.132	0.132	0.000	0.000	0.000	0.132	0.132	0.132
		Top Edge 10mm	0.000	0.000	0.309	0.485	0.130	0.130	0.309	0.615
		Bottom Edge 10mm	0.014	0.014	0.000	0.000	0.000	0.014	0.014	0.014
LTE B13	Ant.1	Front Side 10mm	0.368	0.368	0.562	0.112	0.199	0.567	0.930	0.679
		Back Side 10mm	0.562	0.562	0.571	0.152	0.217	0.779	1.133	0.931
		Left Edge 10mm	0.000	0.000	0.539	0.054	0.193	0.193	0.539	0.247
		Right Edge 10mm	0.733	0.733	0.000	0.000	0.000	0.733	0.733	0.733
		Top Edge 10mm	0.303	0.303	0.309	0.485	0.130	0.433	0.612	0.918
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B13	Ant.0	Front Side 10mm	0.336	0.336	0.562	0.112	0.199	0.535	0.898	0.647
		Back Side 10mm	0.225	0.225	0.571	0.152	0.217	0.442	0.796	0.594
		Left Edge 10mm	0.266	0.266	0.539	0.054	0.193	0.459	0.805	0.513
		Right Edge 10mm	0.216	0.216	0.000	0.000	0.000	0.216	0.216	0.216
		Top Edge 10mm	0.000	0.000	0.309	0.485	0.130	0.130	0.309	0.615
		Bottom Edge 10mm	0.274	0.274	0.000	0.000	0.000	0.274	0.274	0.274
LTE B17	Ant.1	Front Side 10mm	0.224	0.224	0.562	0.112	0.199	0.423	0.786	0.535
		Back Side 10mm	0.413	0.413	0.571	0.152	0.217	0.630	0.984	0.782
		Left Edge 10mm	0.000	0.000	0.539	0.054	0.193	0.193	0.539	0.247
		Right Edge 10mm	0.486	0.486	0.000	0.000	0.000	0.486	0.486	0.486
		Top Edge 10mm	0.191	0.191	0.309	0.485	0.130	0.321	0.500	0.806
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B17	Ant.0	Front Side 10mm	0.083	0.083	0.562	0.112	0.199	0.282	0.645	0.394
		Back Side 10mm	0.131	0.131	0.571	0.152	0.217	0.348	0.702	0.500
		Left Edge 10mm	0.107	0.107	0.539	0.054	0.193	0.300	0.646	0.354
		Right Edge 10mm	0.128	0.128	0.000	0.000	0.000	0.128	0.128	0.128
		Top Edge 10mm	0.000	0.000	0.309	0.485	0.130	0.130	0.309	0.615
		Bottom Edge 10mm	0.012	0.012	0.000	0.000	0.000	0.012	0.012	0.012
LTE B26	Ant.1	Front Side 10mm	0.419	0.419	0.562	0.112	0.199	0.618	0.981	0.730
		Back Side 10mm	0.687	0.687	0.571	0.152	0.217	0.904	<b>1.258</b>	1.056
		Left Edge 10mm	0.000	0.000	0.539	0.054	0.193	0.193	0.539	0.247
		Right Edge 10mm	0.776	0.776	0.000	0.000	0.000	0.776	0.776	0.776
		Top Edge 10mm	0.372	0.372	0.309	0.485	0.130	0.502	0.681	0.987
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B26	Ant.0	Front Side 10mm	0.204	0.204	0.562	0.112	0.199	0.403	0.766	0.515
		Back Side 10mm	0.249	0.249	0.571	0.152	0.217	0.466	0.820	0.618
		Left Edge 10mm	0.211	0.211	0.539	0.054	0.193	0.404	0.750	0.458
		Right Edge 10mm	0.152	0.152	0.000	0.000	0.000	0.152	0.152	0.152
		Top Edge 10mm	0.000	0.000	0.309	0.485	0.130	0.130	0.309	0.615
		Bottom Edge 10mm	0.204	0.204	0.000	0.000	0.000	0.204	0.204	0.204
LTE B66	Ant.3	Front Side 10mm	0.413	0.365	0.562	0.112	0.199	0.612	0.927	0.676
		Back Side 10mm	0.457	0.417	0.571	0.152	0.217	0.674	0.988	0.786
		Left Edge 10mm	0.000	0.000	0.539	0.054	0.193	0.193	0.539	0.247

		Right Edge 10mm	0.147	0.132	0.000	0.000	0.000	0.147	0.132	0.132
		Top Edge 10mm	0.608	0.551	0.309	0.485	0.130	0.738	0.860	1.166
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B66	Ant.0	Front Side 10mm	0.463	0.215	0.562	0.112	0.199	0.662	0.777	0.526
		Back Side 10mm	0.431	0.420	0.571	0.152	0.217	0.648	0.991	0.789
		Left Edge 10mm	0.448	0.075	0.539	0.054	0.193	0.641	0.614	0.322
		Right Edge 10mm	0.083	0.032	0.000	0.000	0.000	0.083	0.032	0.032
		Top Edge 10mm	0.000	0.000	0.309	0.485	0.130	0.130	0.309	0.615
		Bottom Edge 10mm	0.463	0.445	0.000	0.000	0.000	0.463	0.445	0.445
LTE B38	Ant.3	Front Side 10mm	0.241	0.232	0.562	0.112	0.199	0.440	0.794	0.543
		Back Side 10mm	0.264	0.254	0.571	0.152	0.217	0.481	0.825	0.623
		Left Edge 10mm	0.000	0.000	0.539	0.054	0.193	0.193	0.539	0.247
		Right Edge 10mm	0.109	0.105	0.000	0.000	0.000	0.109	0.105	0.105
		Top Edge 10mm	0.423	0.410	0.309	0.485	0.130	0.553	0.719	1.025
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B38	Ant.4	Front Side 10mm	0.069	0.063	0.562	0.112	0.199	0.268	0.625	0.374
		Back Side 10mm	0.196	0.181	0.571	0.152	0.217	0.413	0.752	0.550
		Left Edge 10mm	0.000	0.000	0.539	0.054	0.193	0.193	0.539	0.247
		Right Edge 10mm	0.098	0.092	0.000	0.000	0.000	0.098	0.092	0.092
		Top Edge 10mm	0.023	0.022	0.309	0.485	0.130	0.153	0.331	0.637
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B38	Ant.0	Front Side 10mm	0.155	0.155	0.562	0.112	0.199	0.354	0.717	0.466
		Back Side 10mm	0.151	0.151	0.571	0.152	0.217	0.368	0.722	0.520
		Left Edge 10mm	0.112	0.112	0.539	0.054	0.193	0.305	0.651	0.359
		Right Edge 10mm	0.121	0.121	0.000	0.000	0.000	0.121	0.121	0.121
		Top Edge 10mm	0.000	0.000	0.309	0.485	0.130	0.130	0.309	0.615
		Bottom Edge 10mm	0.101	0.101	0.000	0.000	0.000	0.101	0.101	0.101
LTE B41	Ant.3	Front Side 10mm	0.220	0.209	0.562	0.112	0.199	0.419	0.771	0.520
		Back Side 10mm	0.240	0.228	0.571	0.152	0.217	0.457	0.799	0.597
		Left Edge 10mm	0.000	0.000	0.539	0.054	0.193	0.193	0.539	0.247
		Right Edge 10mm	0.097	0.090	0.000	0.000	0.000	0.097	0.090	0.090
		Top Edge 10mm	0.440	0.418	0.309	0.485	0.130	0.570	0.727	1.033
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B41	Ant.4	Front Side 10mm	0.061	0.066	0.562	0.112	0.199	0.260	0.628	0.377
		Back Side 10mm	0.314	0.326	0.571	0.152	0.217	0.531	0.897	0.695
		Left Edge 10mm	0.000	0.000	0.539	0.054	0.193	0.193	0.539	0.247
		Right Edge 10mm	0.134	0.143	0.000	0.000	0.000	0.134	0.143	0.143
		Top Edge 10mm	0.026	0.028	0.309	0.485	0.130	0.156	0.337	0.643
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B41	Ant.0	Front Side 10mm	0.230	0.230	0.562	0.112	0.199	0.429	0.792	0.541
		Back Side 10mm	0.219	0.219	0.571	0.152	0.217	0.436	0.790	0.588
		Left Edge 10mm	0.163	0.163	0.539	0.054	0.193	0.356	0.702	0.410
		Right Edge 10mm	0.190	0.190	0.000	0.000	0.000	0.190	0.190	0.190

		Top Edge 10mm	0.000	0.000	0.309	0.485	0.130	0.130	0.309	0.615
		Bottom Edge 10mm	0.145	0.145	0.000	0.000	0.000	0.145	0.145	0.145
n5	Ant.1	Front Side 10mm	0.169	0.169	0.562	0.112	0.199	0.368	0.731	0.480
		Back Side 10mm	0.283	0.283	0.571	0.152	0.217	0.500	0.854	0.652
		Left Edge 10mm	0.000	0.000	0.539	0.054	0.193	0.193	0.539	0.247
		Right Edge 10mm	0.294	0.294	0.000	0.000	0.000	0.294	0.294	0.294
		Top Edge 10mm	0.245	0.245	0.309	0.485	0.130	0.375	0.554	0.860
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
n5	Ant.0	Front Side 10mm	0.223	0.223	0.562	0.112	0.199	0.422	0.785	0.534
		Back Side 10mm	0.245	0.245	0.571	0.152	0.217	0.462	0.816	0.614
		Left Edge 10mm	0.244	0.244	0.539	0.054	0.193	0.437	0.783	0.491
		Right Edge 10mm	0.122	0.122	0.000	0.000	0.000	0.122	0.122	0.122
		Top Edge 10mm	0.000	0.000	0.309	0.485	0.130	0.130	0.309	0.615
		Bottom Edge 10mm	0.223	0.223	0.000	0.000	0.000	0.223	0.223	0.223
n7	Ant.3	Front Side 10mm	0.194	0.169	0.562	0.112	0.199	0.393	0.731	0.480
		Back Side 10mm	0.178	0.156	0.571	0.152	0.217	0.395	0.727	0.525
		Left Edge 10mm	0.000	0.000	0.539	0.054	0.193	0.193	0.539	0.247
		Right Edge 10mm	0.093	0.081	0.000	0.000	0.000	0.093	0.081	0.081
		Top Edge 10mm	0.327	0.285	0.309	0.485	0.130	0.457	0.594	0.900
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
n7	Ant.4	Front Side 10mm	0.065	0.064	0.562	0.112	0.199	0.264	0.626	0.375
		Back Side 10mm	0.504	0.506	0.571	0.152	0.217	0.721	1.077	0.875
		Left Edge 10mm	0.000	0.000	0.539	0.054	0.193	0.193	0.539	0.247
		Right Edge 10mm	0.373	0.374	0.000	0.000	0.000	0.373	0.374	0.374
		Top Edge 10mm	0.070	0.071	0.309	0.485	0.130	0.200	0.380	0.686
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
n7	Ant.0	Front Side 10mm	0.560	0.440	0.562	0.112	0.199	0.759	1.002	0.751
		Back Side 10mm	0.663	0.523	0.571	0.152	0.217	0.880	1.094	0.892
		Left Edge 10mm	0.568	0.362	0.539	0.054	0.193	0.761	0.901	0.609
		Right Edge 10mm	0.398	0.065	0.000	0.000	0.000	0.398	0.065	0.065
		Top Edge 10mm	0.000	0.000	0.309	0.485	0.130	0.130	0.309	0.615
		Bottom Edge 10mm	0.462	0.359	0.000	0.000	0.000	0.462	0.359	0.359
n66	Ant.3	Front Side 10mm	0.383	0.318	0.562	0.112	0.199	0.582	0.880	0.629
		Back Side 10mm	0.427	0.358	0.571	0.152	0.217	0.644	0.929	0.727
		Left Edge 10mm	0.000	0.000	0.539	0.054	0.193	0.193	0.539	0.247
		Right Edge 10mm	0.130	0.106	0.000	0.000	0.000	0.130	0.106	0.106
		Top Edge 10mm	0.579	0.477	0.309	0.485	0.130	0.709	0.786	1.092
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
n66	Ant.0	Front Side 10mm	0.761	0.305	0.562	0.112	0.199	0.960	0.867	0.616
		Back Side 10mm	0.703	0.622	0.571	0.152	0.217	0.920	1.193	0.991
		Left Edge 10mm	0.691	0.135	0.539	0.054	0.193	0.884	0.674	0.382
		Right Edge 10mm	0.146	0.054	0.000	0.000	0.000	0.146	0.054	0.054
		Top Edge 10mm	0.000	0.000	0.309	0.485	0.130	0.130	0.309	0.615

		Bottom Edge 10mm	0.761	0.686	0.000	0.000	0.000	0.761	0.686	0.686
n38	Ant.3	Front Side 10mm	0.258	0.226	0.562	0.112	0.199	0.457	0.788	0.537
		Back Side 10mm	0.280	0.245	0.571	0.152	0.217	0.497	0.816	0.614
		Left Edge 10mm	0.138	0.121	0.539	0.054	0.193	0.331	0.660	0.368
		Right Edge 10mm	0.503	0.428	0.000	0.000	0.000	0.503	0.428	0.428
		Top Edge 10mm	0.000	0.000	0.309	0.485	0.130	0.130	0.309	0.615
		Bottom Edge 10mm	0.258	0.290	0.000	0.000	0.000	0.258	0.290	0.290
n38	Ant.4	Front Side 10mm	0.096	0.084	0.562	0.112	0.199	0.295	0.646	0.395
		Back Side 10mm	0.290	0.249	0.571	0.152	0.217	0.507	0.820	0.618
		Left Edge 10mm	0.000	0.000	0.539	0.054	0.193	0.193	0.539	0.247
		Right Edge 10mm	0.148	0.122	0.000	0.000	0.000	0.148	0.122	0.122
		Top Edge 10mm	0.032	0.029	0.309	0.485	0.130	0.162	0.338	0.644
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
n38	Ant.0	Front Side 10mm	0.422	0.422	0.562	0.112	0.199	0.621	0.984	0.733
		Back Side 10mm	0.461	0.461	0.571	0.152	0.217	0.678	1.032	0.830
		Left Edge 10mm	0.446	0.446	0.539	0.054	0.193	0.639	0.985	0.693
		Right Edge 10mm	0.330	0.330	0.000	0.000	0.000	0.330	0.330	0.330
		Top Edge 10mm	0.000	0.000	0.309	0.485	0.130	0.130	0.309	0.615
		Bottom Edge 10mm	0.326	0.326	0.000	0.000	0.000	0.326	0.326	0.326
n41	Ant.3	Front Side 10mm	0.144	0.149	0.562	0.112	0.199	0.343	0.711	0.460
		Back Side 10mm	0.198	0.197	0.571	0.152	0.217	0.415	0.768	0.566
		Left Edge 10mm	0.000	0.000	0.539	0.054	0.193	0.193	0.539	0.247
		Right Edge 10mm	0.083	0.081	0.000	0.000	0.000	0.083	0.081	0.081
		Top Edge 10mm	0.315	0.259	0.309	0.485	0.130	0.445	0.568	0.874
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
n41	Ant.4	Front Side 10mm	0.032	0.029	0.562	0.112	0.199	0.231	0.591	0.340
		Back Side 10mm	0.321	0.280	0.571	0.152	0.217	0.538	0.851	0.649
		Left Edge 10mm	0.000	0.000	0.539	0.054	0.193	0.193	0.539	0.247
		Right Edge 10mm	0.214	0.190	0.000	0.000	0.000	0.214	0.190	0.190
		Top Edge 10mm	0.036	0.030	0.309	0.485	0.130	0.166	0.339	0.645
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
n41	Ant.0	Front Side 10mm	0.642	0.642	0.562	0.112	0.199	0.841	1.204	0.953
		Back Side 10mm	0.671	0.671	0.571	0.152	0.217	0.888	1.242	1.040
		Left Edge 10mm	0.593	0.593	0.539	0.054	0.193	0.786	1.132	0.840
		Right Edge 10mm	0.656	0.656	0.000	0.000	0.000	0.656	0.656	0.656
		Top Edge 10mm	0.000	0.000	0.309	0.485	0.130	0.130	0.309	0.615
		Bottom Edge 10mm	0.117	0.117	0.000	0.000	0.000	0.117	0.117	0.117

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 1g SAR is 1.258 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	5	1+5	2+3	2+4+5
			WWAN	WWAN	2.4GWIFI	5GWIFI Max.	Bluetooth			
n38	Ant.3	Top Edge 0mm	2.261	1.987	1.194	1.008	0.465	2.726	3.181	<b>3.460</b>

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 3.460 W/Kg < 4.0 W/kg, so Simultaneous Transmission SAR test is not required.

### 13.2.9 Head Simultaneous Transmission SAR Evaluation for UL CA and WLAN and BT

Band	LTE Antenna	4G				UL CA				LTE Antenna	Position	Stand alone SAR										SUM SAR		
		LTE	LTE	LTE	LTE	LTE	LTE	LTE	LTE			LTE	LTE	LTE	LTE	1	2	3	4	5	1+5	2+3	2+4+5	
		Band1	Band1	Band1	Band1	Band2	Band2	Band2	Band2			Band1	Band1	Band2	Band2	UL CA	UL CA	2.4GWIFI	5GWIFI	Bluetooth				
		SAR	Max	Max	Max	Max	Max	Max	Max			SAR	SAR	SAR	SAR	(Band1+Band2)	(Band1+Band2)	Max.	Max.					
State5	State5	State5	State10	State5	State5	State5	State10	State5	State10	State5	State10	State5	State10	Level3	Level3/4									
CA_2A_4A	Ant.0	0.130	23.50	23.50	23.50	0.465	19.75	16.75	16.00	Left	0.130	0.130	0.233	0.196	0.363	0.326	0.530	0.363	0.430	0.793	0.856	1.119		
		0.076	23.50	23.50	23.50	0.538	19.75	16.75	16.00	Left Tilt	0.076	0.076	0.270	0.227	0.346	0.303	0.496	0.582	0.424	0.770	0.799	1.309		
		0.113	23.50	23.50	23.50	0.780	19.75	16.75	16.00	Right	0.113	0.113	0.391	0.329	0.504	0.442	0.387	0.281	0.313	0.817	0.829	1.036		
		0.081	23.50	23.50	23.50	0.857	19.75	16.75	16.00	Right Tilt	0.081	0.081	0.430	0.361	0.511	0.442	0.265	0.194	0.215	0.726	0.707	0.851		
CA_2A_7A	Ant.0	0.130	23.50	23.50	23.50	0.365	19.45	17.95	16.95	Left	0.130	0.130	0.258	0.205	0.388	0.335	0.530	0.363	0.430	0.818	0.865	1.128		
		0.076	23.50	23.50	23.50	0.437	19.45	17.95	16.95	Left Tilt	0.076	0.076	0.309	0.246	0.385	0.322	0.496	0.582	0.424	0.809	0.818	1.328		
		0.113	23.50	23.50	23.50	0.794	19.45	17.95	16.95	Right	0.113	0.113	0.562	0.446	0.675	0.559	0.387	0.281	0.313	0.988	0.946	1.153		
		0.081	23.50	23.50	23.50	0.992	19.45	17.95	16.95	Right Tilt	0.081	0.081	0.702	0.558	0.783	0.639	0.265	0.194	0.215	0.998	0.904	1.048		
CA_4A_7A	Ant.0	0.130	23.50	23.50	23.50	0.151	23.20	20.20	20.20	Left	0.130	0.130	0.076	0.076	0.206	0.206	0.530	0.363	0.430	0.636	0.736	0.999		
		0.076	23.50	23.50	23.50	0.103	23.20	20.20	20.20	Left Tilt	0.076	0.076	0.052	0.052	0.128	0.128	0.496	0.582	0.424	0.552	0.624	1.134		
		0.113	23.50	23.50	23.50	0.444	23.20	20.20	20.20	Right	0.113	0.113	0.223	0.223	0.336	0.336	0.387	0.281	0.313	0.649	0.723	0.930		
		0.081	23.50	23.50	23.50	0.237	23.20	20.20	20.20	Right Tilt	0.081	0.081	0.119	0.119	0.200	0.200	0.265	0.194	0.215	0.415	0.465	0.809		
CA_4A_7A	Ant.0	0.109	23.50	23.50	23.50	0.365	19.45	17.95	16.95	Left	0.109	0.109	0.258	0.205	0.367	0.314	0.530	0.363	0.430	0.797	0.844	1.107		
		0.052	23.50	23.50	23.50	0.437	19.45	17.95	16.95	Left Tilt	0.052	0.052	0.309	0.246	0.361	0.298	0.496	0.582	0.424	0.785	0.794	1.304		
		0.092	23.50	23.50	23.50	0.794	19.45	17.95	16.95	Right	0.092	0.092	0.562	0.446	0.654	0.538	0.387	0.281	0.313	0.967	0.925	1.132		
		0.044	23.50	23.50	23.50	0.992	19.45	17.95	16.95	Right Tilt	0.044	0.044	0.702	0.558	0.746	0.602	0.265	0.194	0.215	0.961	0.867	1.011		
CA_4A_7A	Ant.0	0.109	23.50	23.50	23.50	0.151	23.20	20.20	20.20	Left	0.109	0.109	0.076	0.076	0.185	0.185	0.530	0.363	0.430	0.615	0.715	0.978		
		0.052	23.50	23.50	23.50	0.103	23.20	20.20	20.20	Left Tilt	0.052	0.052	0.052	0.052	0.104	0.104	0.496	0.582	0.424	0.528	0.600	1.110		
		0.092	23.50	23.50	23.50	0.444	23.20	20.20	20.20	Right	0.092	0.092	0.223	0.223	0.315	0.315	0.387	0.281	0.313	0.628	0.702	0.909		
		0.044	23.50	23.50	23.50	0.237	23.20	20.20	20.20	Right Tilt	0.044	0.044	0.119	0.119	0.163	0.163	0.265	0.194	0.215	0.378	0.428	0.572		

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 1.328 W/kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.



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

Band	LTE Antenna	4G				UL CA				Antenna	Position	Stand alone SAR										SUM SAR		
		LTE	LTE	LTE	LTE	LTE	LTE	LTE	LTE			LTE	LTE	LTE	LTE	LTE	1	2	3	4	5	1+5	2+3	2+4+5
		Band1	Band1	Band1	Band1	Band2	Band2	Band2	Band2			Band1	Band1	Band2	Band2	UL CA	UL CA	2.4GWIFI	5GWIFI	Bluetooth				
		SAR	Max Power	Max Power	Max Power	SAR	Max Power	Max Power	Max Power			SAR	SAR	SAR	SAR	(Band1+Band2)	(Band1+Band2)	Level7	Max.	Level7/8				
State3	State3	State3	State8	State3	State3	State3	State8	State3	State8	State3	State8	State3	State8	Level7	Level7/8									
CA_2A_4A	Ant.0	0.046	22.25	20.50	18.25	0.224	22.00	19.00	18.50	Front	0.031	0.018	0.112	0.100	0.143	0.118	0.210	0.099	0.081	0.224	0.328	0.298		
		0.110	22.25	20.50	18.25	0.250	22.00	19.00	18.50	Side 15mm	0.074	0.044	0.125	0.112	0.199	0.155	0.241	0.151	0.087	0.286	0.396	0.363		
CA_2A_7A	Ant.0	0.046	22.25	20.50	18.25	0.078	20.20	17.20	16.95	Front	0.031	0.018	0.038	0.036	0.089	0.054	0.210	0.099	0.081	0.150	0.264	0.234		
		0.110	22.25	20.50	18.25	0.071	20.20	17.20	16.95	Side 15mm	0.074	0.044	0.036	0.034	0.109	0.077	0.241	0.151	0.087	0.196	0.318	0.315		
CA_2A_7A	Ant.0	0.046	22.25	20.50	18.25	0.056	20.70	17.70	17.70	Front	0.031	0.018	0.028	0.028	0.059	0.046	0.210	0.099	0.081	0.140	0.256	0.226		
		0.110	22.25	20.50	18.25	0.186	20.70	17.70	17.70	Side 15mm	0.074	0.044	0.093	0.093	0.167	0.137	0.241	0.151	0.087	0.254	0.378	0.375		
CA_4A_7A	Ant.0	0.179	23.00	20.00	19.50	0.078	20.20	17.20	16.95	Front	0.090	0.080	0.038	0.036	0.128	0.116	0.210	0.099	0.081	0.209	0.326	0.296		
		0.305	23.00	20.00	19.50	0.071	20.20	17.20	16.95	Side 15mm	0.153	0.136	0.036	0.034	0.188	0.170	0.241	0.151	0.087	0.275	0.411	0.408		
CA_4A_7A	Ant.0	0.179	23.00	20.00	19.50	0.056	20.70	17.70	17.70	Front	0.090	0.080	0.028	0.028	0.118	0.108	0.210	0.099	0.081	0.199	0.318	0.288		
		0.305	23.00	20.00	19.50	0.186	20.70	17.70	17.70	Side 15mm	0.153	0.136	0.093	0.093	0.246	0.229	0.241	0.151	0.087	0.333	<b>0.470</b>	0.467		

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 0.470 W/kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

### 13.2.11 Hotspot Simultaneous Transmission SAR Evaluation for UL CA and WLAN and BT

Band	LTE Antenna	4G		UL CA		LTE Antenna	4G		UL CA		Position	Stand alone SAR										SUM SAR		
		LTE	LTE	LTE	LTE		LTE	LTE	LTE	LTE		LTE	LTE	1	2	3	4	5	1+5	2+3	2+4+5			
		Band1	Band1	Band1	Band1		Band2	Band2	Band2	Band2		Band1	Band1	Band2	Band2	UL CA (Band1+Band2)	UL CA (Band1+Band2)	2.4GWIFI				5GWIFI Max.	Bluetooth	
		SAR	Power	Power	Power		SAR	Power	Power	Power		SAR	SAR	SAR	SAR									
State3	State3	State3	State8	State3	State3	State3	State8	State3	State8	State3	State8	State3	State8	Level7	Level7/8									
CA_2A_4A	Ant.0	0.228	22.25	20.50	18.25	Ant.3	0.339	22.00	19.00	18.50	Front	0.152	0.091	0.170	0.151	0.322	0.242	0.582	0.112	0.199	0.521	0.804	0.553	
		0.211	22.25	20.50	18.25		0.380	22.00	19.00	18.50	Back	0.141	0.084	0.190	0.170	0.331	0.254	0.571	0.152	0.217	0.548	0.825	0.623	
		0.195	22.25	20.50	18.25		0.000	22.00	19.00	18.50	Left Edge	0.130	0.078	0.000	0.000	0.130	0.078	0.539	0.054	0.193	0.323	0.617	0.325	
		0.004	22.25	20.50	18.25		0.113	22.00	19.00	18.50	Right	0.003	0.002	0.057	0.050	0.059	0.052	0.000	0.000	0.000	0.059	0.052	0.052	0.052
		0.000	22.25	20.50	18.25		0.511	22.00	19.00	18.50	Top Edge	0.000	0.000	0.256	0.228	0.256	0.228	0.309	0.485	0.130	0.386	0.537	0.843	
0.228	22.25	20.50	18.25	0.000	22.00	19.00	18.50	Bottom	0.152	0.091	0.000	0.000	0.152	0.091	0.000	0.000	0.000	0.152	0.091	0.091	0.091			
CA_2A_7A	Ant.0	0.228	22.25	20.50	18.25	Ant.3	0.175	20.20	17.20	16.95	Front	0.152	0.091	0.088	0.083	0.240	0.174	0.582	0.112	0.199	0.439	0.736	0.485	
		0.211	22.25	20.50	18.25		0.152	20.20	17.20	16.95	Back	0.141	0.084	0.076	0.072	0.217	0.156	0.571	0.152	0.217	0.434	0.727	0.525	
		0.195	22.25	20.50	18.25		0.000	20.20	17.20	16.95	Left Edge	0.130	0.078	0.000	0.000	0.130	0.078	0.539	0.054	0.193	0.323	0.617	0.325	
		0.004	22.25	20.50	18.25		0.080	20.20	17.20	16.95	Right	0.003	0.002	0.040	0.038	0.043	0.039	0.000	0.000	0.000	0.043	0.039	0.039	
		0.000	22.25	20.50	18.25		0.300	20.20	17.20	16.95	Top Edge	0.000	0.000	0.150	0.142	0.150	0.142	0.309	0.485	0.130	0.280	0.451	0.757	
0.228	22.25	20.50	18.25	0.000	20.20	17.20	16.95	Bottom	0.152	0.091	0.000	0.000	0.152	0.091	0.000	0.000	0.000	0.152	0.091	0.091	0.091			
CA_2A_7A	Ant.0	0.228	22.25	20.50	18.25	Ant.4	0.053	20.70	17.70	17.70	Front	0.152	0.091	0.027	0.027	0.179	0.117	0.582	0.112	0.199	0.378	0.679	0.428	

		0.211	22.25	20.50	18.25		0.462	20.70	17.70	17.70	Back Side 10mm	0.141	0.084	0.232	0.232	0.373	0.316	0.571	0.152	0.217	0.590	0.887	0.685
		0.195	22.25	20.50	18.25		0.000	20.70	17.70	17.70	Left Edge 10mm	0.130	0.078	0.000	0.000	0.130	0.078	0.539	0.054	0.193	0.323	0.817	0.325
		0.004	22.25	20.50	18.25		0.310	20.70	17.70	17.70	Right Edge 10mm	0.003	0.002	0.155	0.155	0.158	0.157	0.000	0.000	0.000	0.158	0.157	0.157
		0.000	22.25	20.50	18.25		0.052	20.70	17.70	17.70	Top Edge 10mm	0.000	0.000	0.026	0.026	0.026	0.026	0.309	0.485	0.130	0.156	0.335	0.641
		0.228	22.25	20.50	18.25		0.000	20.70	17.70	17.70	Bottom Edge 10mm	0.152	0.091	0.000	0.000	0.152	0.091	0.000	0.000	0.000	0.152	0.091	0.091
CA_4A_7A	Ant.0	0.625	23.00	20.00	19.50	Ant.3	0.175	20.20	17.20	16.95	Front Side 10mm	0.313	0.279	0.088	0.083	0.401	0.362	0.562	0.112	0.199	0.600	0.924	0.673
		0.572	23.00	20.00	19.50		0.152	20.20	17.20	16.95	Back Side 10mm	0.287	0.256	0.076	0.072	0.363	0.327	0.571	0.152	0.217	0.580	0.898	0.696
		0.543	23.00	20.00	19.50		0.000	20.20	17.20	16.95	Left Edge 10mm	0.272	0.243	0.000	0.000	0.272	0.243	0.539	0.054	0.193	0.465	0.782	0.490
		0.101	23.00	20.00	19.50		0.080	20.20	17.20	16.95	Right Edge 10mm	0.051	0.045	0.040	0.038	0.091	0.083	0.000	0.000	0.000	0.091	0.083	0.083
		0.000	23.00	20.00	19.50		0.300	20.20	17.20	16.95	Top Edge 10mm	0.000	0.000	0.150	0.142	0.150	0.142	0.309	0.485	0.130	0.280	0.451	0.757
		0.625	23.00	20.00	19.50		0.000	20.20	17.20	16.95	Bottom Edge 10mm	0.313	0.279	0.000	0.000	0.313	0.279	0.000	0.000	0.000	0.313	0.279	0.279
CA_4A_7A	Ant.0	0.625	23.00	20.00	19.50	Ant.4	0.053	20.70	17.70	17.70	Front Side 10mm	0.313	0.279	0.027	0.027	0.340	0.306	0.562	0.112	0.199	0.539	0.868	0.617
		0.572	23.00	20.00	19.50		0.462	20.70	17.70	17.70	Back Side 10mm	0.287	0.256	0.232	0.232	0.518	0.487	0.571	0.152	0.217	0.735	<b>1.858</b>	0.856
		0.543	23.00	20.00	19.50		0.000	20.70	17.70	17.70	Left Edge 10mm	0.272	0.243	0.000	0.000	0.272	0.243	0.539	0.054	0.193	0.465	0.782	0.490
		0.101	23.00	20.00	19.50		0.310	20.70	17.70	17.70	Right Edge 10mm	0.051	0.045	0.155	0.155	0.206	0.200	0.000	0.000	0.000	0.206	0.200	0.200
		0.000	23.00	20.00	19.50		0.052	20.70	17.70	17.70	Top Edge 10mm	0.000	0.000	0.026	0.026	0.026	0.026	0.309	0.485	0.130	0.156	0.335	0.641

											Bottom																
		0.625	23.00	20.00	19.50		0.000	20.70	17.70	17.70	Edge	0.313	0.279	0.000	0.000	0.313	0.279	0.000	0.000	0.000	0.313	0.279	0.279				
											10mm																

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 1.058 W/kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

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

Band	LTE Antenna	4G				ENDC				NR Antenna	Stand alone SAR								SUM SAR				
		LTE SAR	LTE Max Power	LTE Max Power	LTE Max Power	NR SAR	NR Max Power	NR Max Power	NR Max Power		Position	LTE SAR	NR SAR	NR SAR	NR SAR	1	2	3	4	5	1+5	2+3	2+4+5
		State5	State5	State5	State10	State5	State5	State5	State10			LTE SAR	NR SAR	NR SAR	NR SAR	ENDC (LTE+NR)	ENDC (LTE+NR)	2.4GWIFI	5GWIFI Max.	Bluetooth			
		State5	State5	State5	State10	State5	State5	State5	State10		State5	State10	State5	State10	State5	State10	Level3	Level3/4					
DC_7A+n5A	Ant.3	0.365	19.45	18.20	17.45	Ant.0	0.183	24.20	24.20	24.20	Left Cheek	0.274	0.230	0.183	0.183	0.457	0.413	0.530	0.363	0.430	0.887	0.943	1.206
		0.437	19.45	18.20	17.45		0.103	24.20	24.20	24.20	Left Tilt	0.328	0.276	0.103	0.103	0.431	0.379	0.496	0.582	0.424	0.855	0.875	1.385
		0.794	19.45	18.20	17.45		0.160	24.20	24.20	24.20	Right Cheek	0.595	0.501	0.160	0.160	0.755	0.661	0.387	0.281	0.313	1.068	1.048	1.255
		0.992	19.45	18.20	17.45		0.090	24.20	24.20	24.20	Right Tilt	0.744	0.626	0.090	0.090	0.834	0.716	0.265	0.194	0.215	1.049	0.981	1.125
DC_7A+n5A	Ant.0	0.257	24.20	24.20	24.20	Ant.1	0.475	24.20	24.20	24.20	Left Cheek	0.257	0.257	0.475	0.475	0.732	0.732	0.530	0.363	0.430	1.162	1.262	1.525
		0.168	24.20	24.20	24.20		0.065	24.20	24.20	24.20	Left Tilt	0.168	0.168	0.065	0.065	0.233	0.233	0.496	0.582	0.424	0.657	0.729	1.239
		0.215	24.20	24.20	24.20		0.265	24.20	24.20	24.20	Right Cheek	0.215	0.215	0.265	0.265	0.480	0.480	0.387	0.281	0.313	0.793	0.867	1.074
		0.139	24.20	24.20	24.20		0.033	24.20	24.20	24.20	Right Tilt	0.139	0.139	0.033	0.033	0.172	0.172	0.265	0.194	0.215	0.387	0.437	0.581
DC_7A+n5A	Ant.3	0.365	19.45	18.20	17.45	Ant.1	0.475	24.20	24.20	24.20	Left Cheek	0.274	0.230	0.475	0.475	0.749	0.705	0.530	0.363	0.430	1.179	1.235	1.498
		0.437	19.45	18.20	17.45		0.065	24.20	24.20	24.20	Left Tilt	0.328	0.276	0.065	0.065	0.393	0.341	0.496	0.582	0.424	0.817	0.837	1.347
		0.794	19.45	18.20	17.45		0.265	24.20	24.20	24.20	Right Cheek	0.595	0.501	0.265	0.265	0.860	0.766	0.387	0.281	0.313	1.173	1.153	1.360
		0.992	19.45	18.20	17.45		0.033	24.20	24.20	24.20	Right Tilt	0.744	0.626	0.033	0.033	0.777	0.659	0.265	0.194	0.215	0.992	0.924	1.068
DC_66A+n5A	Ant.3	0.414	19.25	17.50	15.75	Ant.0	0.183	24.20	24.20	24.20	Left Cheek	0.277	0.185	0.183	0.183	0.460	0.368	0.530	0.363	0.430	0.890	0.898	1.161
		0.469	19.25	17.50	15.75		0.103	24.20	24.20	24.20	Left Tilt	0.313	0.209	0.103	0.103	0.416	0.312	0.496	0.582	0.424	0.840	0.808	1.318
		0.662	19.25	17.50	15.75		0.160	24.20	24.20	24.20	Right Cheek	0.442	0.296	0.160	0.160	0.602	0.456	0.387	0.281	0.313	0.915	0.843	1.050
		0.727	19.25	17.50	15.75		0.090	24.20	24.20	24.20	Right Tilt	0.486	0.325	0.090	0.090	0.576	0.415	0.265	0.194	0.215	0.791	0.680	0.824
DC_66A+n5A	Ant.0	0.106	24.00	24.00	24.00	Ant.1	0.475	24.20	24.20	24.20	Left Cheek	0.106	0.106	0.475	0.475	0.581	0.581	0.530	0.363	0.430	1.011	1.111	1.374
		0.051	24.00	24.00	24.00		0.065	24.20	24.20	24.20	Left Tilt	0.051	0.051	0.065	0.065	0.116	0.116	0.496	0.582	0.424	0.540	0.612	1.122
		0.094	24.00	24.00	24.00		0.265	24.20	24.20	24.20	Right Cheek	0.094	0.094	0.265	0.265	0.359	0.359	0.387	0.281	0.313	0.672	0.746	0.953
		0.043	24.00	24.00	24.00		0.033	24.20	24.20	24.20	Right Tilt	0.043	0.043	0.033	0.033	0.076	0.076	0.265	0.194	0.215	0.291	0.341	0.485
DC_66A+n5A	Ant.3	0.414	19.25	17.50	15.75	Ant.1	0.475	24.20	24.20	24.20	Left Cheek	0.277	0.185	0.475	0.475	0.752	0.660	0.530	0.363	0.430	1.182	1.190	1.453
		0.469	19.25	17.50	15.75		0.065	24.20	24.20	24.20	Left Tilt	0.313	0.209	0.065	0.065	0.378	0.274	0.496	0.582	0.424	0.802	0.770	1.280
		0.662	19.25	17.50	15.75		0.265	24.20	24.20	24.20	Right Cheek	0.442	0.296	0.265	0.265	0.707	0.561	0.387	0.281	0.313	1.020	0.948	1.155
		0.727	19.25	17.50	15.75		0.033	24.20	24.20	24.20	Right Tilt	0.486	0.325	0.033	0.033	0.519	0.358	0.265	0.194	0.215	0.734	0.623	0.767

DC_2A+n7A	Ant.0	0.130	23.50	23.50	23.50	Ant.3	0.483	19.70	18.45	17.70	Left Cheek	0.130	0.130	0.362	0.305	0.492	0.435	0.530	0.363	0.430	0.922	0.965	1.228
		0.076	23.50	23.50	23.50		0.526	19.70	18.45	17.70	Left Tilt	0.076	0.076	0.394	0.332	0.470	0.408	0.496	0.582	0.424	0.894	0.904	1.414
		0.113	23.50	23.50	23.50		0.795	19.70	18.45	17.70	Right Cheek	0.113	0.113	0.596	0.502	0.709	0.615	0.387	0.281	0.313	1.022	1.002	1.209
		0.081	23.50	23.50	23.50		1.155	19.70	18.45	17.70	Right Tilt	0.081	0.081	0.866	0.729	0.947	0.810	0.265	0.194	0.215	1.162	1.075	1.219
DC_2A+n7A	Ant.0	0.130	23.50	23.50	23.50	Ant.4	0.174	23.20	23.20	23.20	Left Cheek	0.130	0.130	0.174	0.174	0.304	0.304	0.530	0.363	0.430	0.734	0.834	1.097
		0.076	23.50	23.50	23.50		0.119	23.20	23.20	23.20	Left Tilt	0.076	0.076	0.119	0.119	0.195	0.195	0.496	0.582	0.424	0.619	0.691	1.201
		0.113	23.50	23.50	23.50		0.518	23.20	23.20	23.20	Right Cheek	0.113	0.113	0.518	0.518	0.631	0.631	0.387	0.281	0.313	0.944	1.018	1.225
		0.081	23.50	23.50	23.50		0.279	23.20	23.20	23.20	Right Tilt	0.081	0.081	0.279	0.279	0.360	0.360	0.265	0.194	0.215	0.575	0.625	0.769
DC_4A+n7A	Ant.0	0.109	23.50	23.50	23.50	Ant.3	0.483	19.70	18.45	17.70	Left Cheek	0.109	0.109	0.362	0.305	0.471	0.414	0.530	0.363	0.430	0.901	0.944	1.207
		0.052	23.50	23.50	23.50		0.526	19.70	18.45	17.70	Left Tilt	0.052	0.052	0.394	0.332	0.446	0.384	0.496	0.582	0.424	0.870	0.880	1.390
		0.092	23.50	23.50	23.50		0.795	19.70	18.45	17.70	Right Cheek	0.092	0.092	0.596	0.502	0.688	0.594	0.387	0.281	0.313	1.001	0.981	1.188
		0.044	23.50	23.50	23.50		1.155	19.70	18.45	17.70	Right Tilt	0.044	0.044	0.866	0.729	0.910	0.773	0.265	0.194	0.215	1.125	1.038	1.182
DC_4A+n7A	Ant.0	0.109	23.50	23.50	23.50	Ant.4	0.174	23.20	23.20	23.20	Left Cheek	0.109	0.109	0.174	0.174	0.283	0.283	0.530	0.363	0.430	0.713	0.813	1.076
		0.052	23.50	23.50	23.50		0.119	23.20	23.20	23.20	Left Tilt	0.052	0.052	0.119	0.119	0.171	0.171	0.496	0.582	0.424	0.595	0.667	1.177
		0.092	23.50	23.50	23.50		0.518	23.20	23.20	23.20	Right Cheek	0.092	0.092	0.518	0.518	0.610	0.610	0.387	0.281	0.313	0.923	0.997	1.204
		0.044	23.50	23.50	23.50		0.279	23.20	23.20	23.20	Right Tilt	0.044	0.044	0.279	0.279	0.323	0.323	0.265	0.194	0.215	0.538	0.588	0.732
DC_5A+n7A	Ant.1	0.611	24.50	24.50	23.50	Ant.0	0.264	24.20	24.20	24.20	Left Cheek	0.611	0.485	0.264	0.264	0.875	0.749	0.530	0.363	0.430	1.305	1.279	1.542
		0.064	24.50	24.50	23.50		0.172	24.20	24.20	24.20	Left Tilt	0.064	0.051	0.172	0.172	0.236	0.223	0.496	0.582	0.424	0.660	0.719	1.229
		0.460	24.50	24.50	23.50		0.221	24.20	24.20	24.20	Right Cheek	0.460	0.365	0.221	0.221	0.681	0.586	0.387	0.281	0.313	0.994	0.973	1.180
		0.054	24.50	24.50	23.50		0.140	24.20	24.20	24.20	Right Tilt	0.054	0.043	0.140	0.140	0.194	0.163	0.265	0.194	0.215	0.409	0.448	0.582
DC_5A+n7A	Ant.0	0.218	24.50	24.50	24.50	Ant.3	0.483	19.70	18.45	17.70	Left Cheek	0.218	0.218	0.362	0.305	0.580	0.523	0.530	0.363	0.430	1.010	1.053	1.316
		0.113	24.50	24.50	24.50		0.526	19.70	18.45	17.70	Left Tilt	0.113	0.113	0.394	0.332	0.507	0.445	0.496	0.582	0.424	0.931	0.941	1.451
		0.195	24.50	24.50	24.50		0.795	19.70	18.45	17.70	Right Cheek	0.195	0.195	0.596	0.502	0.791	0.697	0.387	0.281	0.313	1.104	1.084	1.291
		0.091	24.50	24.50	24.50		1.155	19.70	18.45	17.70	Right Tilt	0.091	0.091	0.866	0.729	0.957	0.820	0.265	0.194	0.215	1.172	1.085	1.229
DC_5A+n7A	Ant.1	0.611	24.50	24.50	23.50	Ant.3	0.483	19.70	18.45	17.70	Left Cheek	0.611	0.485	0.362	0.305	0.973	0.790	0.530	0.363	0.430	1.403	1.320	1.583
		0.064	24.50	24.50	23.50		0.526	19.70	18.45	17.70	Left Tilt	0.064	0.051	0.394	0.332	0.458	0.383	0.496	0.582	0.424	0.882	0.879	1.389
		0.460	24.50	24.50	23.50		0.795	19.70	18.45	17.70	Right Cheek	0.460	0.365	0.596	0.502	1.056	0.867	0.387	0.281	0.313	1.369	1.254	1.461
		0.054	24.50	24.50	23.50		1.155	19.70	18.45	17.70	Right Tilt	0.054	0.043	0.866	0.729	0.920	0.772	0.265	0.194	0.215	1.135	1.037	1.181

DC_5A+n7A	Ant.0	0.218	24.50	24.50	24.50	Ant.4	0.174	23.20	23.20	23.20	Left Cheek	0.218	0.218	0.174	0.174	0.392	0.392	0.530	0.363	0.430	0.822	0.922	1.185
		0.113	24.50	24.50	24.50		0.119	23.20	23.20	23.20	Left Tilt	0.113	0.113	0.119	0.119	0.232	0.232	0.496	0.582	0.424	0.656	0.728	1.238
		0.195	24.50	24.50	24.50		0.518	23.20	23.20	23.20	Right Cheek	0.195	0.195	0.518	0.518	0.713	0.713	0.387	0.281	0.313	1.026	1.100	1.307
		0.091	24.50	24.50	24.50		0.279	23.20	23.20	23.20	Right Tilt	0.091	0.091	0.279	0.279	0.370	0.370	0.265	0.194	0.215	0.585	0.635	0.779
DC_5A+n7A	Ant.1	0.611	24.50	24.50	23.50	Ant.4	0.174	23.20	23.20	23.20	Left Cheek	0.611	0.485	0.174	0.174	0.785	0.659	0.530	0.363	0.430	1.215	1.189	1.452
		0.064	24.50	24.50	23.50		0.119	23.20	23.20	23.20	Left Tilt	0.064	0.051	0.119	0.119	0.183	0.170	0.496	0.582	0.424	0.607	0.666	1.176
		0.460	24.50	24.50	23.50		0.518	23.20	23.20	23.20	Right Cheek	0.460	0.365	0.518	0.518	0.978	0.883	0.387	0.281	0.313	1.291	1.270	1.477
		0.054	24.50	24.50	23.50		0.279	23.20	23.20	23.20	Right Tilt	0.054	0.043	0.279	0.279	0.333	0.322	0.265	0.194	0.215	0.548	0.587	0.731
DC_6A+n7A	Ant.0	0.106	24.00	24.00	24.00	Ant.3	0.483	19.70	18.45	17.70	Left Cheek	0.106	0.106	0.362	0.305	0.468	0.411	0.530	0.363	0.430	0.888	0.941	1.204
		0.051	24.00	24.00	24.00		0.526	19.70	18.45	17.70	Left Tilt	0.051	0.051	0.394	0.332	0.445	0.383	0.496	0.582	0.424	0.869	0.879	1.389
		0.094	24.00	24.00	24.00		0.795	19.70	18.45	17.70	Right Cheek	0.094	0.094	0.596	0.502	0.690	0.596	0.387	0.281	0.313	1.003	0.983	1.190
		0.043	24.00	24.00	24.00		1.155	19.70	18.45	17.70	Right Tilt	0.043	0.043	0.866	0.729	0.909	0.772	0.265	0.194	0.215	1.124	1.037	1.181
DC_6A+n7A	Ant.0	0.106	24.00	24.00	24.00	Ant.4	0.174	23.20	23.20	23.20	Left Cheek	0.106	0.106	0.174	0.174	0.280	0.280	0.530	0.363	0.430	0.710	0.810	1.073
		0.051	24.00	24.00	24.00		0.119	23.20	23.20	23.20	Left Tilt	0.051	0.051	0.119	0.119	0.170	0.170	0.496	0.582	0.424	0.594	0.666	1.176
		0.094	24.00	24.00	24.00		0.518	23.20	23.20	23.20	Right Cheek	0.094	0.094	0.518	0.518	0.612	0.612	0.387	0.281	0.313	0.925	0.999	1.206
		0.043	24.00	24.00	24.00		0.279	23.20	23.20	23.20	Right Tilt	0.043	0.043	0.279	0.279	0.322	0.322	0.265	0.194	0.215	0.537	0.587	0.731
DC_5A+n66A	Ant.0	0.130	23.50	23.50	23.50	Ant.3	0.613	20.20	18.45	16.70	Left Cheek	0.130	0.130	0.410	0.274	0.540	0.404	0.530	0.363	0.430	0.970	0.934	1.197
		0.076	23.50	23.50	23.50		0.695	20.20	18.45	16.70	Left Tilt	0.076	0.076	0.464	0.310	0.540	0.386	0.496	0.582	0.424	0.964	0.882	1.362
		0.113	23.50	23.50	23.50		0.972	20.20	18.45	16.70	Right Cheek	0.113	0.113	0.650	0.434	0.763	0.547	0.387	0.281	0.313	1.076	0.934	1.141
		0.081	23.50	23.50	23.50		1.133	20.20	18.45	16.70	Right Tilt	0.081	0.081	0.757	0.506	0.838	0.587	0.265	0.194	0.215	1.053	0.852	0.996
DC_5A+n66A	Ant.1	0.611	24.50	24.50	23.50	Ant.0	0.115	24.20	24.20	24.20	Left Cheek	0.611	0.485	0.115	0.115	0.726	0.600	0.530	0.363	0.430	1.156	1.130	1.383
		0.064	24.50	24.50	23.50		0.053	24.20	24.20	24.20	Left Tilt	0.064	0.051	0.053	0.053	0.117	0.104	0.496	0.582	0.424	0.541	0.600	1.110
		0.460	24.50	24.50	23.50		0.100	24.20	24.20	24.20	Right Cheek	0.460	0.365	0.100	0.100	0.560	0.465	0.387	0.281	0.313	0.873	0.852	1.059
		0.054	24.50	24.50	23.50		0.044	24.20	24.20	24.20	Right Tilt	0.054	0.043	0.044	0.044	0.098	0.087	0.265	0.194	0.215	0.313	0.352	0.496
DC_5A+n66A	Ant.0	0.218	24.50	24.50	24.50	Ant.3	0.613	20.20	18.45	16.70	Left Cheek	0.218	0.218	0.410	0.274	0.628	0.492	0.530	0.363	0.430	1.058	1.022	1.285
		0.113	24.50	24.50	24.50		0.695	20.20	18.45	16.70	Left Tilt	0.113	0.113	0.464	0.310	0.577	0.423	0.496	0.582	0.424	1.001	0.919	1.429
		0.195	24.50	24.50	24.50		0.972	20.20	18.45	16.70	Right Cheek	0.195	0.195	0.650	0.434	0.845	0.629	0.387	0.281	0.313	1.158	1.016	1.223
		0.091	24.50	24.50	24.50		1.133	20.20	18.45	16.70	Right Tilt	0.091	0.091	0.757	0.506	0.848	0.597	0.265	0.194	0.215	1.063	0.862	1.006

DC_5A+n66A	Ant.1	0.611	24.50	24.50	23.50	Ant.3	0.613	20.20	18.45	16.70	Left Cheek	0.611	0.485	0.410	0.274	1.021	0.759	0.530	0.363	0.430	1.451	1.289	1.552
		0.064	24.50	24.50	23.50		0.695	20.20	18.45	16.70	Left Tilt	0.064	0.051	0.464	0.310	0.528	0.361	0.496	0.582	0.424	0.952	0.857	1.367
		0.460	24.50	24.50	23.50		0.972	20.20	18.45	16.70	Right Cheek	0.460	0.365	0.650	0.434	1.110	0.800	0.387	0.281	0.313	1.423	1.187	1.394
		0.054	24.50	24.50	23.50		1.133	20.20	18.45	16.70	Right Tilt	0.054	0.043	0.757	0.506	0.811	0.549	0.265	0.194	0.215	1.026	0.814	0.958
DC_7A+n66A	Ant.3	0.365	19.45	17.00	16.25	Ant.0	0.115	24.20	24.20	24.20	Left Cheek	0.208	0.175	0.115	0.115	0.323	0.290	0.530	0.363	0.430	0.753	0.820	1.083
		0.437	19.45	17.00	16.25		0.053	24.20	24.20	24.20	Left Tilt	0.249	0.209	0.053	0.053	0.302	0.262	0.496	0.582	0.424	0.726	0.758	1.268
		0.794	19.45	17.00	16.25		0.100	24.20	24.20	24.20	Right Cheek	0.452	0.380	0.100	0.100	0.552	0.480	0.387	0.281	0.313	0.865	0.867	1.074
		0.992	19.45	17.00	16.25		0.044	24.20	24.20	24.20	Right Tilt	0.564	0.475	0.044	0.044	0.608	0.519	0.265	0.194	0.215	0.823	0.794	0.928
DC_12A+n66A	Ant.1	0.521	24.50	24.50	24.50	Ant.0	0.115	24.20	24.20	24.20	Left Cheek	0.521	0.521	0.115	0.115	0.636	0.636	0.530	0.363	0.430	1.066	1.166	1.429
		0.074	24.50	24.50	24.50		0.053	24.20	24.20	24.20	Left Tilt	0.074	0.074	0.053	0.053	0.127	0.127	0.496	0.582	0.424	0.551	0.623	1.133
		0.325	24.50	24.50	24.50		0.100	24.20	24.20	24.20	Right Cheek	0.325	0.325	0.100	0.100	0.425	0.425	0.387	0.281	0.313	0.738	0.812	1.019
		0.033	24.50	24.50	24.50		0.044	24.20	24.20	24.20	Right Tilt	0.033	0.033	0.044	0.044	0.077	0.077	0.265	0.194	0.215	0.292	0.342	0.486
DC_12A+n66A	Ant.0	0.078	24.50	24.50	24.50	Ant.3	0.613	20.20	18.45	16.70	Left Cheek	0.078	0.078	0.410	0.274	0.488	0.352	0.530	0.363	0.430	0.918	0.882	1.145
		0.032	24.50	24.50	24.50		0.695	20.20	18.45	16.70	Left Tilt	0.032	0.032	0.464	0.310	0.496	0.342	0.496	0.582	0.424	0.920	0.838	1.348
		0.064	24.50	24.50	24.50		0.972	20.20	18.45	16.70	Right Cheek	0.064	0.064	0.650	0.434	0.714	0.498	0.387	0.281	0.313	1.027	0.885	1.062
		0.026	24.50	24.50	24.50		1.133	20.20	18.45	16.70	Right Tilt	0.026	0.026	0.757	0.506	0.783	0.532	0.265	0.194	0.215	0.998	0.797	0.941
DC_12A+n66A	Ant.1	0.521	24.50	24.50	24.50	Ant.3	0.613	20.20	18.45	16.70	Left Cheek	0.521	0.521	0.410	0.274	0.931	0.795	0.530	0.363	0.430	1.361	1.325	1.588
		0.074	24.50	24.50	24.50		0.695	20.20	18.45	16.70	Left Tilt	0.074	0.074	0.464	0.310	0.538	0.384	0.496	0.582	0.424	0.962	0.880	1.390
		0.325	24.50	24.50	24.50		0.972	20.20	18.45	16.70	Right Cheek	0.325	0.325	0.650	0.434	0.975	0.759	0.387	0.281	0.313	1.288	1.146	1.353
		0.033	24.50	24.50	24.50		1.133	20.20	18.45	16.70	Right Tilt	0.033	0.033	0.757	0.506	0.790	0.539	0.265	0.194	0.215	1.005	0.804	0.948
DC_4A+n38A	Ant.0	0.109	23.50	23.50	23.50	Ant.3	0.388	18.45	17.20	16.45	Left Cheek	0.109	0.109	0.291	0.245	0.400	0.354	0.530	0.363	0.430	0.830	0.884	1.147
		0.052	23.50	23.50	23.50		0.450	18.45	17.20	16.45	Left Tilt	0.052	0.052	0.337	0.284	0.389	0.336	0.496	0.582	0.424	0.813	0.832	1.342
		0.082	23.50	23.50	23.50		0.797	18.45	17.20	16.45	Right Cheek	0.082	0.082	0.598	0.503	0.690	0.595	0.387	0.281	0.313	1.003	0.962	1.189
		0.044	23.50	23.50	23.50		1.137	18.45	17.20	16.45	Right Tilt	0.044	0.044	0.853	0.717	0.897	0.761	0.265	0.194	0.215	1.112	1.026	1.170
DC_4A+n38A	Ant.0	0.109	23.50	23.50	23.50	Ant.4	0.090	23.20	23.20	23.20	Left Cheek	0.109	0.109	0.090	0.090	0.199	0.199	0.530	0.363	0.430	0.629	0.729	0.992
		0.052	23.50	23.50	23.50		0.085	23.20	23.20	23.20	Left Tilt	0.052	0.052	0.085	0.085	0.137	0.137	0.496	0.582	0.424	0.561	0.633	1.143
		0.092	23.50	23.50	23.50		0.230	23.20	23.20	23.20	Right Cheek	0.092	0.092	0.230	0.230	0.322	0.322	0.387	0.281	0.313	0.635	0.709	0.916
		0.044	23.50	23.50	23.50		0.124	23.20	23.20	23.20	Right Tilt	0.044	0.044	0.124	0.124	0.168	0.168	0.265	0.194	0.215	0.383	0.433	0.577



DC_5A+n38A	Ant.1	0.611	24.50	24.50	23.50	Ant.0	0.172	24.20	24.20	24.20	Left Cheek	0.611	0.485	0.172	0.172	0.783	0.657	0.530	0.363	0.430	1.213	1.187	1.450
		0.064	24.50	24.50	23.50		0.070	24.20	24.20	24.20	Left Tilt	0.064	0.051	0.070	0.070	0.134	0.121	0.496	0.582	0.424	0.558	0.617	1.127
		0.460	24.50	24.50	23.50		0.073	24.20	24.20	24.20	Right Cheek	0.460	0.365	0.073	0.073	0.533	0.438	0.387	0.281	0.313	0.846	0.825	1.032
		0.054	24.50	24.50	23.50		0.039	24.20	24.20	24.20	Right Tilt	0.054	0.043	0.039	0.039	0.093	0.082	0.265	0.194	0.215	0.308	0.347	0.491
DC_5A+n38A	Ant.0	0.218	24.50	24.50	24.50	Ant.3	0.388	18.45	17.20	16.45	Left Cheek	0.218	0.218	0.291	0.245	0.509	0.463	0.530	0.363	0.430	0.939	0.993	1.256
		0.113	24.50	24.50	24.50		0.450	18.45	17.20	16.45	Left Tilt	0.113	0.113	0.337	0.284	0.450	0.397	0.496	0.582	0.424	0.874	0.893	1.403
		0.195	24.50	24.50	24.50		0.797	18.45	17.20	16.45	Right Cheek	0.195	0.195	0.598	0.503	0.793	0.698	0.387	0.281	0.313	1.106	1.085	1.292
		0.091	24.50	24.50	24.50		1.137	18.45	17.20	16.45	Right Tilt	0.091	0.091	0.853	0.717	0.944	0.808	0.265	0.194	0.215	1.159	1.073	1.217
DC_5A+n38A	Ant.1	0.611	24.50	24.50	23.50	Ant.3	0.388	18.45	17.20	16.45	Left Cheek	0.611	0.485	0.291	0.245	0.902	0.730	0.530	0.363	0.430	1.332	1.260	1.523
		0.064	24.50	24.50	23.50		0.450	18.45	17.20	16.45	Left Tilt	0.064	0.051	0.337	0.284	0.401	0.335	0.496	0.582	0.424	0.825	0.831	1.341
		0.460	24.50	24.50	23.50		0.797	18.45	17.20	16.45	Right Cheek	0.460	0.365	0.598	0.503	1.058	0.868	0.387	0.281	0.313	1.371	1.255	1.462
		0.054	24.50	24.50	23.50		1.137	18.45	17.20	16.45	Right Tilt	0.054	0.043	0.853	0.717	0.907	0.760	0.265	0.194	0.215	1.122	1.025	1.169
DC_5A+n38A	Ant.0	0.218	24.50	24.50	24.50	Ant.4	0.090	23.20	23.20	23.20	Left Cheek	0.218	0.218	0.090	0.090	0.308	0.306	0.530	0.363	0.430	0.738	0.838	1.101
		0.113	24.50	24.50	24.50		0.085	23.20	23.20	23.20	Left Tilt	0.113	0.113	0.085	0.085	0.198	0.198	0.496	0.582	0.424	0.622	0.694	1.204
		0.195	24.50	24.50	24.50		0.230	23.20	23.20	23.20	Right Cheek	0.195	0.195	0.230	0.230	0.425	0.425	0.387	0.281	0.313	0.738	0.812	1.019
		0.091	24.50	24.50	24.50		0.124	23.20	23.20	23.20	Right Tilt	0.091	0.091	0.124	0.124	0.215	0.215	0.265	0.194	0.215	0.430	0.480	0.624
DC_5A+n38A	Ant.1	0.611	24.50	24.50	23.50	Ant.4	0.090	23.20	23.20	23.20	Left Cheek	0.611	0.485	0.090	0.090	0.701	0.575	0.530	0.363	0.430	1.131	1.105	1.368
		0.064	24.50	24.50	23.50		0.085	23.20	23.20	23.20	Left Tilt	0.064	0.051	0.085	0.085	0.149	0.136	0.496	0.582	0.424	0.573	0.632	1.142
		0.460	24.50	24.50	23.50		0.230	23.20	23.20	23.20	Right Cheek	0.460	0.365	0.230	0.230	0.690	0.595	0.387	0.281	0.313	1.003	0.962	1.189
		0.054	24.50	24.50	23.50		0.124	23.20	23.20	23.20	Right Tilt	0.054	0.043	0.124	0.124	0.178	0.167	0.265	0.194	0.215	0.393	0.432	0.576
DC_66A+n38A	Ant.0	0.106	24.00	24.00	24.00	Ant.3	0.388	18.45	17.20	16.45	Left Cheek	0.106	0.106	0.291	0.245	0.397	0.351	0.530	0.363	0.430	0.827	0.881	1.144
		0.051	24.00	24.00	24.00		0.450	18.45	17.20	16.45	Left Tilt	0.051	0.051	0.337	0.284	0.388	0.335	0.496	0.582	0.424	0.812	0.831	1.341
		0.094	24.00	24.00	24.00		0.797	18.45	17.20	16.45	Right Cheek	0.094	0.094	0.598	0.503	0.692	0.597	0.387	0.281	0.313	1.005	0.984	1.191
		0.043	24.00	24.00	24.00		1.137	18.45	17.20	16.45	Right Tilt	0.043	0.043	0.853	0.717	0.896	0.760	0.265	0.194	0.215	1.111	1.025	1.169
DC_66A+n38A	Ant.0	0.106	24.00	24.00	24.00	Ant.4	0.090	23.20	23.20	23.20	Left Cheek	0.106	0.106	0.090	0.090	0.196	0.196	0.530	0.363	0.430	0.626	0.726	0.989
		0.051	24.00	24.00	24.00		0.085	23.20	23.20	23.20	Left Tilt	0.051	0.051	0.085	0.085	0.136	0.136	0.496	0.582	0.424	0.560	0.632	1.142
		0.094	24.00	24.00	24.00		0.230	23.20	23.20	23.20	Right Cheek	0.094	0.094	0.230	0.230	0.324	0.324	0.387	0.281	0.313	0.637	0.711	0.918
		0.043	24.00	24.00	24.00		0.124	23.20	23.20	23.20	Right Tilt	0.043	0.043	0.124	0.124	0.167	0.167	0.265	0.194	0.215	0.382	0.432	0.576

DC_4A+n41A	Ant.0	0.109	23.50	23.50	23.50	Ant.3	0.302	18.70	17.45	16.70	Left Cheek	0.109	0.109	0.226	0.191	0.335	0.300	0.530	0.363	0.430	0.765	0.830	1.093
		0.052	23.50	23.50	23.50		0.377	18.70	17.45	16.70	Left Tilt	0.052	0.052	0.283	0.238	0.335	0.290	0.496	0.582	0.424	0.759	0.786	1.296
		0.092	23.50	23.50	23.50		0.692	18.70	17.45	16.70	Right Cheek	0.092	0.092	0.519	0.437	0.611	0.529	0.387	0.281	0.313	0.924	0.916	1.123
		0.044	23.50	23.50	23.50		0.822	18.70	17.45	16.70	Right Tilt	0.044	0.044	0.616	0.519	0.660	0.563	0.265	0.194	0.215	0.875	0.828	0.972
DC_4A+n41A	Ant.0	0.109	23.50	23.50	23.50	Ant.4	0.101	23.20	23.20	23.20	Left Cheek	0.109	0.109	0.101	0.101	0.210	0.210	0.530	0.363	0.430	0.640	0.740	1.003
		0.052	23.50	23.50	23.50		0.094	23.20	23.20	23.20	Left Tilt	0.052	0.052	0.094	0.094	0.146	0.146	0.496	0.582	0.424	0.570	0.642	1.152
		0.092	23.50	23.50	23.50		0.269	23.20	23.20	23.20	Right Cheek	0.092	0.092	0.269	0.269	0.361	0.361	0.387	0.281	0.313	0.674	0.748	0.955
		0.044	23.50	23.50	23.50		0.144	23.20	23.20	23.20	Right Tilt	0.044	0.044	0.144	0.144	0.188	0.188	0.265	0.194	0.215	0.403	0.453	0.597
DC_26A+n41A	Ant.1	0.395	24.00	24.00	24.00	Ant.0	0.181	24.20	24.20	24.20	Left Cheek	0.395	0.395	0.181	0.181	0.576	0.576	0.530	0.363	0.430	1.006	1.106	1.369
		0.073	24.00	24.00	24.00		0.110	24.20	24.20	24.20	Left Tilt	0.073	0.073	0.110	0.110	0.183	0.183	0.496	0.582	0.424	0.607	0.679	1.189
		0.296	24.00	24.00	24.00		0.088	24.20	24.20	24.20	Right Cheek	0.296	0.296	0.088	0.088	0.384	0.384	0.387	0.281	0.313	0.697	0.771	0.978
		0.038	24.00	24.00	24.00		0.048	24.20	24.20	24.20	Right Tilt	0.038	0.038	0.048	0.048	0.086	0.086	0.265	0.194	0.215	0.301	0.351	0.495
DC_26A+n41A	Ant.0	0.198	24.00	24.00	24.00	Ant.3	0.302	18.70	17.45	16.70	Left Cheek	0.198	0.198	0.226	0.191	0.424	0.389	0.530	0.363	0.430	0.854	0.919	1.182
		0.109	24.00	24.00	24.00		0.377	18.70	17.45	16.70	Left Tilt	0.109	0.109	0.283	0.238	0.392	0.347	0.496	0.582	0.424	0.816	0.843	1.353
		0.171	24.00	24.00	24.00		0.692	18.70	17.45	16.70	Right Cheek	0.171	0.171	0.519	0.437	0.690	0.608	0.387	0.281	0.313	1.003	0.995	1.202
		0.094	24.00	24.00	24.00		0.822	18.70	17.45	16.70	Right Tilt	0.094	0.094	0.616	0.519	0.710	0.613	0.265	0.194	0.215	0.925	0.878	1.022
DC_26A+n41A	Ant.1	0.395	24.00	24.00	24.00	Ant.3	0.302	18.70	17.45	16.70	Left Cheek	0.395	0.395	0.226	0.191	0.621	0.586	0.530	0.363	0.430	1.051	1.116	1.379
		0.073	24.00	24.00	24.00		0.377	18.70	17.45	16.70	Left Tilt	0.073	0.073	0.283	0.238	0.356	0.311	0.496	0.582	0.424	0.780	0.807	1.317
		0.296	24.00	24.00	24.00		0.692	18.70	17.45	16.70	Right Cheek	0.296	0.296	0.519	0.437	0.815	0.733	0.387	0.281	0.313	1.128	1.120	1.327
		0.038	24.00	24.00	24.00		0.822	18.70	17.45	16.70	Right Tilt	0.038	0.038	0.616	0.519	0.654	0.557	0.265	0.194	0.215	0.869	0.822	0.966
DC_26A+n41A	Ant.0	0.198	24.00	24.00	24.00	Ant.4	0.101	23.20	23.20	23.20	Left Cheek	0.198	0.198	0.101	0.101	0.299	0.299	0.530	0.363	0.430	0.729	0.829	1.082
		0.109	24.00	24.00	24.00		0.094	23.20	23.20	23.20	Left Tilt	0.109	0.109	0.094	0.094	0.203	0.203	0.496	0.582	0.424	0.627	0.699	1.209
		0.171	24.00	24.00	24.00		0.269	23.20	23.20	23.20	Right Cheek	0.171	0.171	0.269	0.269	0.440	0.440	0.387	0.281	0.313	0.753	0.827	1.034
		0.094	24.00	24.00	24.00		0.144	23.20	23.20	23.20	Right Tilt	0.094	0.094	0.144	0.144	0.238	0.238	0.265	0.194	0.215	0.453	0.503	0.647
DC_26A+n41A	Ant.1	0.395	24.00	24.00	24.00	Ant.4	0.101	23.20	23.20	23.20	Left Cheek	0.395	0.395	0.101	0.101	0.496	0.496	0.530	0.363	0.430	0.926	1.026	1.289
		0.073	24.00	24.00	24.00		0.094	23.20	23.20	23.20	Left Tilt	0.073	0.073	0.094	0.094	0.167	0.167	0.496	0.582	0.424	0.591	0.663	1.173
		0.296	24.00	24.00	24.00		0.269	23.20	23.20	23.20	Right Cheek	0.296	0.296	0.269	0.269	0.565	0.565	0.387	0.281	0.313	0.878	0.952	1.159
		0.038	24.00	24.00	24.00		0.144	23.20	23.20	23.20	Right Tilt	0.038	0.038	0.144	0.144	0.182	0.182	0.265	0.194	0.215	0.397	0.447	0.591

DC_66A+n41A	Ant.0	0.106	24.00	24.00	24.00	Ant.3	0.302	18.70	17.45	16.70	Left Cheek	0.106	0.106	0.226	0.191	0.332	0.297	0.530	0.363	0.430	0.762	0.827	1.090
		0.051	24.00	24.00	24.00		0.377	18.70	17.45	16.70	Left Tilt	0.051	0.051	0.283	0.238	0.334	0.289	0.496	0.582	0.424	0.758	0.785	1.295
		0.094	24.00	24.00	24.00		0.692	18.70	17.45	16.70	Right Cheek	0.094	0.094	0.519	0.437	0.613	0.531	0.387	0.281	0.313	0.926	0.918	1.125
		0.043	24.00	24.00	24.00		0.822	18.70	17.45	16.70	Right Tilt	0.043	0.043	0.616	0.519	0.659	0.562	0.265	0.194	0.215	0.874	0.827	0.971
DC_66A+n41A	Ant.0	0.106	24.00	24.00	24.00	Ant.4	0.101	23.20	23.20	23.20	Left Cheek	0.106	0.106	0.101	0.101	0.207	0.207	0.530	0.363	0.430	0.637	0.737	1.000
		0.051	24.00	24.00	24.00		0.094	23.20	23.20	23.20	Left Tilt	0.051	0.051	0.094	0.094	0.145	0.145	0.496	0.582	0.424	0.569	0.641	1.151
		0.094	24.00	24.00	24.00		0.269	23.20	23.20	23.20	Right Cheek	0.094	0.094	0.269	0.269	0.363	0.363	0.387	0.281	0.313	0.676	0.750	0.957
		0.043	24.00	24.00	24.00		0.144	23.20	23.20	23.20	Right Tilt	0.043	0.043	0.144	0.144	0.187	0.187	0.265	0.194	0.215	0.402	0.452	0.596

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 1g SAR is 1.588 W/kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

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

Band	LTE Antenna	4G				ENDC				NR Antenna	NSA				ENDC				Position	Stand alone SAR										SUM SAR		
		LTE	LTE Max	LTE Max	LTE Max	NR SAR	NR Max	NR Max	NR Max		LTE	LTE	NR SAR	NR SAR	1	2	3	4		5	Bluetooth	1+5	2+3	2+4+5								
		SAR	Power	Power	Power	Power	Power	Power	Power		SAR	SAR	SAR	SAR	ENDC (LTE+NR)	ENDC (LTE+NR)	24GWIFI	5GWIFI Max.														
		State3	State3	State3	State8	State3	State3	State3	State8		State3	State8	State3	State8	State3	State8	Level7	Level7/8														
DC_7A+n5A	Ant.3	0.076	20.20	18.70	17.20	Ant.0	0.116	24.20	24.20	24.20	Front	0.054	0.038	0.116	0.116	0.170	0.154	0.210	0.099	0.081	0.251	0.364	0.334									
		0.071	20.20	18.70	17.20		Back Side	0.050	0.036	0.163	0.163	0.213	0.199	0.241	0.151	0.087	0.300	0.440	0.437													
DC_7A+n5A	Ant.0	0.313	24.20	22.45	20.70	Ant.1	0.107	24.20	24.20	24.20	Front	0.209	0.140	0.107	0.107	0.316	0.247	0.210	0.099	0.081	0.397	0.457	0.427									
		0.332	24.20	22.45	20.70		Back Side	0.222	0.148	0.111	0.111	0.333	0.259	0.241	0.151	0.087	0.420	0.500	0.497													
DC_7A+n5A	Ant.3	0.076	20.20	18.70	17.20	Ant.1	0.107	24.20	24.20	24.20	Front	0.054	0.038	0.107	0.107	0.161	0.145	0.210	0.099	0.081	0.242	0.355	0.325									
		0.071	20.20	18.70	17.20		Back Side	0.111	24.20	24.20	24.20	0.050	0.036	0.111	0.111	0.161	0.147	0.241	0.151	0.087	0.248	0.388	0.385									
DC_86A+n5A	Ant.3	0.292	23.00	21.25	20.00	Ant.0	0.116	24.20	24.20	24.20	Front	0.195	0.146	0.116	0.116	0.311	0.262	0.210	0.099	0.081	0.392	0.472	0.442									
		0.322	23.00	21.25	20.00		Back Side	0.163	24.20	24.20	24.20	0.215	0.161	0.163	0.163	0.378	0.324	0.241	0.151	0.087	0.465	0.565	0.562									
DC_86A+n5A	Ant.0	0.150	21.50	20.00	18.50	Ant.1	0.107	24.20	24.20	24.20	Front	0.106	0.075	0.107	0.107	0.213	0.182	0.210	0.099	0.081	0.294	0.392	0.362									
		0.276	21.50	20.00	18.50		Back Side	0.111	24.20	24.20	24.20	0.195	0.138	0.111	0.111	0.306	0.249	0.241	0.151	0.087	0.393	0.490	0.487									
DC_86A+n5A	Ant.3	0.292	23.00	21.25	20.00	Ant.1	0.107	24.20	24.20	24.20	Front	0.195	0.146	0.107	0.107	0.302	0.253	0.210	0.099	0.081	0.383	0.463	0.433									
		0.322	23.00	21.25	20.00		Back Side	0.111	24.20	24.20	24.20	0.215	0.161	0.111	0.111	0.326	0.272	0.241	0.151	0.087	0.413	0.513	0.510									
DC_2A+n7A	Ant.0	0.046	22.25	20.50	18.25	Ant.3	0.091	20.70	19.20	17.70	Front	0.031	0.018	0.064	0.046	0.095	0.064	0.210	0.099	0.081	0.176	0.274	0.244									
		0.110	22.25	20.50	18.25		Back Side	0.085	20.70	19.20	17.70	0.074	0.044	0.060	0.043	0.134	0.086	0.241	0.151	0.087	0.221	0.327	0.324									

DC_2A+n7A	Ant.0	0.046	22.25	20.50	18.25	Ant.4	0.039	21.95	20.45	18.95	Front	0.031	0.018	0.028	0.020	0.058	0.038	0.210	0.099	0.081	0.139	0.248	0.218
		0.110	22.25	20.50	18.25		0.272	21.95	20.45	18.95	Back Side	0.074	0.044	0.193	0.136	0.266	0.180	0.241	0.151	0.087	0.353	0.421	0.418
DC_4A+n7A	Ant.0	0.179	23.00	21.50	20.00	Ant.3	0.091	20.70	19.20	17.70	Front	0.127	0.090	0.064	0.046	0.191	0.135	0.210	0.099	0.081	0.272	0.345	0.315
		0.305	23.00	21.50	20.00		0.085	20.70	19.20	17.70	Back Side	0.216	0.153	0.060	0.043	0.276	0.195	0.241	0.151	0.087	0.363	0.436	0.433
DC_4A+n7A	Ant.0	0.179	23.00	21.50	20.00	Ant.4	0.039	21.95	20.45	18.95	Front	0.127	0.090	0.028	0.020	0.154	0.109	0.210	0.099	0.081	0.235	0.319	0.289
		0.305	23.00	21.50	20.00		0.272	21.95	20.45	18.95	Back Side	0.216	0.153	0.133	0.136	0.408	0.289	0.241	0.151	0.087	0.485	0.530	0.527
DC_5A+n7A	Ant.1	0.098	24.50	24.50	23.00	Ant.0	0.320	24.20	22.45	20.95	Front	0.098	0.069	0.214	0.151	0.312	0.221	0.210	0.099	0.081	0.393	0.431	0.401
		0.110	24.50	24.50	23.00		0.371	24.20	22.45	20.95	Back Side	0.110	0.078	0.248	0.176	0.358	0.253	0.241	0.151	0.087	0.445	0.494	0.481
DC_5A+n7A	Ant.0	0.174	24.50	24.50	23.25	Ant.3	0.091	20.70	19.20	17.70	Front	0.174	0.130	0.064	0.046	0.238	0.176	0.210	0.099	0.081	0.319	0.386	0.356
		0.204	24.50	24.50	23.25		0.085	20.70	19.20	17.70	Back Side	0.204	0.153	0.060	0.043	0.264	0.196	0.241	0.151	0.087	0.351	0.437	0.434
DC_5A+n7A	Ant.1	0.098	24.50	24.50	23.00	Ant.3	0.091	20.70	19.20	17.70	Front	0.098	0.069	0.064	0.046	0.162	0.115	0.210	0.099	0.081	0.243	0.325	0.295
		0.110	24.50	24.50	23.00		0.085	20.70	19.20	17.70	Back Side	0.110	0.078	0.060	0.043	0.170	0.120	0.241	0.151	0.087	0.257	0.361	0.358
DC_5A+n7A	Ant.0	0.174	24.50	24.50	23.25	Ant.4	0.039	21.95	20.45	18.95	Front	0.174	0.130	0.028	0.020	0.202	0.150	0.210	0.099	0.081	0.283	0.360	0.330
		0.204	24.50	24.50	23.25		0.272	21.95	20.45	18.95	Back Side	0.204	0.153	0.193	0.136	0.397	0.289	0.241	0.151	0.087	0.484	0.530	0.527
DC_5A+n7A	Ant.1	0.098	24.50	24.50	23.00	Ant.4	0.039	21.95	20.45	18.95	Front	0.098	0.069	0.028	0.020	0.126	0.089	0.210	0.099	0.081	0.207	0.299	0.269
		0.110	24.50	24.50	23.00		0.272	21.95	20.45	18.95	Back Side	0.110	0.078	0.193	0.136	0.303	0.214	0.241	0.151	0.087	0.390	0.455	0.452
DC_66A+n7A	Ant.0	0.150	21.50	20.00	18.50	Ant.3	0.091	20.70	19.20	17.70	Front	0.106	0.075	0.064	0.046	0.171	0.121	0.210	0.099	0.081	0.252	0.331	0.301

		0.276	21.50	20.00	18.50		0.085	20.70	19.20	17.70	Back Side 15mm	0.195	0.138	0.060	0.043	0.256	0.181	0.241	0.151	0.087	0.343	0.422	0.419
DC_86A+n7A	Ant.0	0.150	21.50	20.00	18.50	Ant.4	0.039	21.95	20.45	18.95	Front	0.106	0.075	0.028	0.020	0.134	0.095	0.210	0.099	0.081	0.215	0.305	0.275
		0.276	21.50	20.00	18.50		0.272	21.95	20.45	18.95	Back Side 15mm	0.195	0.138	0.133	0.136	0.388	0.275	0.241	0.151	0.087	0.475	0.516	0.513
DC_2A+n66A	Ant.0	0.046	22.25	20.50	18.25	Ant.3	0.148	21.95	20.20	18.95	Front	0.031	0.018	0.099	0.074	0.130	0.092	0.210	0.099	0.081	0.211	0.302	0.272
		0.110	22.25	20.50	18.25		0.279	21.95	20.20	18.95	Back Side 15mm	0.074	0.044	0.186	0.140	0.260	0.184	0.241	0.151	0.087	0.347	0.425	0.422
DC_5A+n66A	Ant.1	0.098	24.50	24.50	23.00	Ant.0	0.200	22.95	21.45	19.70	Front	0.098	0.069	0.142	0.095	0.240	0.164	0.210	0.099	0.081	0.321	0.374	0.344
		0.110	24.50	24.50	23.00		0.386	22.95	21.45	19.70	Back Side 15mm	0.110	0.078	0.273	0.183	0.363	0.261	0.241	0.151	0.087	0.470	0.502	0.499
DC_5A+n66A	Ant.0	0.174	24.50	24.50	23.25	Ant.3	0.148	21.95	20.20	18.95	Front	0.174	0.130	0.099	0.074	0.273	0.205	0.210	0.099	0.081	0.354	0.415	0.385
		0.204	24.50	24.50	23.25		0.279	21.95	20.20	18.95	Back Side 15mm	0.204	0.153	0.186	0.140	0.390	0.293	0.241	0.151	0.087	0.477	0.534	0.531
DC_5A+n66A	Ant.1	0.098	24.50	24.50	23.00	Ant.3	0.148	21.95	20.20	18.95	Front	0.098	0.069	0.099	0.074	0.197	0.144	0.210	0.099	0.081	0.278	0.354	0.324
		0.110	24.50	24.50	23.00		0.279	21.95	20.20	18.95	Back Side 15mm	0.110	0.078	0.186	0.140	0.296	0.218	0.241	0.151	0.087	0.383	0.459	0.456
DC_7A+n66A	Ant.3	0.076	20.20	17.50	16.00	Ant.0	0.200	22.95	21.45	19.70	Front	0.041	0.029	0.142	0.095	0.182	0.124	0.210	0.099	0.081	0.263	0.334	0.304
		0.071	20.20	17.50	16.00		0.386	22.95	21.45	19.70	Back Side 15mm	0.038	0.027	0.273	0.183	0.311	0.210	0.241	0.151	0.087	0.388	0.451	0.448
DC_12A+n66A	Ant.1	0.124	24.50	24.50	24.50	Ant.0	0.200	22.95	21.45	19.70	Front	0.124	0.124	0.142	0.095	0.266	0.219	0.210	0.099	0.081	0.347	0.429	0.399
		0.146	24.50	24.50	24.50		0.386	22.95	21.45	19.70	Back Side 15mm	0.146	0.146	0.273	0.183	0.419	0.329	0.241	0.151	0.087	0.506	<b>0.570</b>	0.567
DC_12A+n66A	Ant.0	0.100	24.50	24.50	24.50	Ant.3	0.148	21.95	20.20	18.95	Front	0.100	0.100	0.099	0.074	0.199	0.174	0.210	0.099	0.081	0.280	0.384	0.354
		0.134	24.50	24.50	24.50		0.279	21.95	20.20	18.95	Back Side 15mm	0.134	0.134	0.186	0.140	0.320	0.274	0.241	0.151	0.087	0.407	0.515	0.512

DC_12A+r66A	Ant.1	0.124	24.50	24.50	24.50	Ant.3	0.148	21.95	20.20	18.95	Front	0.124	0.124	0.099	0.074	0.223	0.198	0.210	0.099	0.081	0.304	0.408	0.378
		0.146	24.50	24.50	24.50		0.279	21.95	20.20	18.95	Back Side	0.146	0.146	0.186	0.140	0.332	0.286	0.241	0.151	0.087	0.419	0.527	0.524
DC_4A+r38A	Ant.0	0.179	23.00	21.50	20.00	Ant.3	0.112	20.20	18.70	17.20	Front	0.127	0.090	0.079	0.056	0.206	0.146	0.210	0.099	0.081	0.287	0.356	0.326
		0.305	23.00	21.50	20.00		0.133	20.20	18.70	17.20	Back Side	0.216	0.153	0.094	0.067	0.310	0.220	0.241	0.151	0.087	0.397	0.461	0.458
DC_4A+r38A	Ant.0	0.179	23.00	21.50	20.00	Ant.4	0.043	20.45	18.70	17.45	Front	0.127	0.090	0.029	0.022	0.155	0.111	0.210	0.099	0.081	0.236	0.321	0.291
		0.305	23.00	21.50	20.00		0.127	20.45	18.70	17.45	Back Side	0.216	0.153	0.085	0.064	0.301	0.217	0.241	0.151	0.087	0.388	0.458	0.455
DC_5A+r38A	Ant.1	0.098	24.50	24.50	23.00	Ant.0	0.360	24.20	23.45	21.95	Front	0.098	0.069	0.303	0.214	0.401	0.284	0.210	0.099	0.081	0.482	0.494	0.464
		0.110	24.50	24.50	23.00		0.361	24.20	23.45	21.95	Back Side	0.110	0.078	0.304	0.215	0.414	0.293	0.241	0.151	0.087	0.501	0.534	0.531
DC_5A+r38A	Ant.0	0.174	24.50	24.50	23.25	Ant.3	0.112	20.20	18.70	17.20	Front	0.174	0.130	0.079	0.056	0.253	0.187	0.210	0.099	0.081	0.334	0.397	0.367
		0.204	24.50	24.50	23.25		0.133	20.20	18.70	17.20	Back Side	0.204	0.153	0.094	0.067	0.298	0.220	0.241	0.151	0.087	0.385	0.461	0.458
DC_5A+r38A	Ant.1	0.098	24.50	24.50	23.00	Ant.3	0.112	20.20	18.70	17.20	Front	0.098	0.069	0.079	0.056	0.177	0.126	0.210	0.099	0.081	0.258	0.336	0.306
		0.110	24.50	24.50	23.00		0.133	20.20	18.70	17.20	Back Side	0.110	0.078	0.094	0.067	0.204	0.145	0.241	0.151	0.087	0.291	0.386	0.383
DC_5A+r38A	Ant.0	0.174	24.50	24.50	23.25	Ant.4	0.043	20.45	18.70	17.45	Front	0.174	0.130	0.029	0.022	0.203	0.152	0.210	0.099	0.081	0.284	0.362	0.332
		0.204	24.50	24.50	23.25		0.127	20.45	18.70	17.45	Back Side	0.204	0.153	0.085	0.064	0.289	0.217	0.241	0.151	0.087	0.376	0.458	0.455
DC_5A+r38A	Ant.1	0.098	24.50	24.50	23.00	Ant.4	0.043	20.45	18.70	17.45	Front	0.098	0.069	0.029	0.022	0.127	0.091	0.210	0.099	0.081	0.208	0.301	0.271
		0.110	24.50	24.50	23.00		0.127	20.45	18.70	17.45	Back Side	0.110	0.078	0.085	0.064	0.195	0.142	0.241	0.151	0.087	0.282	0.383	0.380
DC_66A+r38A	Ant.0	0.150	21.50	20.00	18.50	Ant.3	0.112	20.20	18.70	17.20	Front	0.106	0.075	0.079	0.056	0.185	0.131	0.210	0.099	0.081	0.266	0.341	0.311

		0.276	21.50	20.00	18.50		0.133	20.20	18.70	17.20	Back Side 15mm	0.195	0.138	0.094	0.067	0.290	0.205	0.241	0.151	0.087	0.377	0.446	0.443
DC_66A+h38A	Ant.0	0.150	21.50	20.00	18.50	Ant.4	0.043	20.45	18.70	17.45	Front	0.106	0.075	0.029	0.022	0.135	0.097	0.210	0.099	0.081	0.216	0.307	0.277
		0.276	21.50	20.00	18.50		0.127	20.45	18.70	17.45	Side 15mm	0.195	0.138	0.085	0.064	0.280	0.202	0.241	0.151	0.087	0.367	0.443	0.440
DC_4A+h41A	Ant.0	0.179	23.00	21.50	20.00	Ant.3	0.069	19.70	17.95	16.70	Front	0.127	0.090	0.046	0.035	0.173	0.124	0.210	0.099	0.081	0.254	0.334	0.304
		0.305	23.00	21.50	20.00		0.079	19.70	17.95	16.70	Side 15mm	0.216	0.153	0.053	0.040	0.269	0.192	0.241	0.151	0.087	0.356	0.433	0.430
DC_4A+h41A	Ant.0	0.179	23.00	21.50	20.00	Ant.4	0.034	19.95	18.45	16.95	Front	0.127	0.090	0.024	0.017	0.151	0.107	0.210	0.099	0.081	0.232	0.317	0.287
		0.305	23.00	21.50	20.00		0.119	19.95	18.45	16.95	Side 15mm	0.216	0.153	0.084	0.060	0.300	0.213	0.241	0.151	0.087	0.387	0.454	0.451
DC_26A+h41A	Ant.1	0.068	24.00	24.00	22.75	Ant.0	0.359	24.20	23.20	21.70	Front	0.068	0.051	0.285	0.202	0.353	0.253	0.210	0.099	0.081	0.434	0.463	0.433
		0.075	24.00	24.00	22.75		0.399	24.20	23.20	21.70	Side 15mm	0.075	0.056	0.317	0.224	0.392	0.281	0.241	0.151	0.087	0.479	0.522	0.519
DC_26A+h41A	Ant.0	0.159	24.00	24.00	23.25	Ant.3	0.069	19.70	17.95	16.70	Front	0.159	0.134	0.046	0.035	0.205	0.168	0.210	0.099	0.081	0.286	0.378	0.348
		0.185	24.00	24.00	23.25		0.079	19.70	17.95	16.70	Side 15mm	0.185	0.156	0.053	0.040	0.238	0.195	0.241	0.151	0.087	0.325	0.436	0.433
DC_26A+h41A	Ant.1	0.068	24.00	24.00	22.75	Ant.3	0.069	19.70	17.95	16.70	Front	0.068	0.051	0.046	0.035	0.114	0.086	0.210	0.099	0.081	0.195	0.296	0.266
		0.075	24.00	24.00	22.75		0.079	19.70	17.95	16.70	Side 15mm	0.075	0.056	0.053	0.040	0.128	0.096	0.241	0.151	0.087	0.215	0.337	0.334
DC_26A+h41A	Ant.0	0.159	24.00	24.00	23.25	Ant.4	0.034	19.95	18.45	16.95	Front	0.159	0.134	0.024	0.017	0.183	0.151	0.210	0.099	0.081	0.264	0.361	0.331
		0.185	24.00	24.00	23.25		0.119	19.95	18.45	16.95	Side 15mm	0.185	0.156	0.084	0.060	0.269	0.215	0.241	0.151	0.087	0.356	0.456	0.453
DC_26A+h41A	Ant.1	0.068	24.00	24.00	22.75	Ant.4	0.034	19.95	18.45	16.95	Front	0.068	0.051	0.024	0.017	0.092	0.068	0.210	0.099	0.081	0.173	0.278	0.248
		0.075	24.00	24.00	22.75		0.119	19.95	18.45	16.95	Side 15mm	0.075	0.056	0.084	0.060	0.159	0.116	0.241	0.151	0.087	0.246	0.357	0.354



DC_66A+n41A	Ant.0	0.150	21.50	20.00	18.50	Ant.3	0.069	19.70	17.95	16.70	Front	0.106	0.075	0.046	0.035	0.152	0.110	0.210	0.099	0.081	0.233	0.320	0.290
		0.276	21.50	20.00	18.50		0.079	19.70	17.95	16.70	Back Side 15mm	0.195	0.138	0.053	0.040	0.248	0.178	0.241	0.151	0.087	0.335	0.419	0.416
DC_66A+n41A	Ant.0	0.150	21.50	20.00	18.50	Ant.4	0.034	19.95	18.45	16.95	Front	0.106	0.075	0.024	0.017	0.130	0.092	0.210	0.099	0.081	0.211	0.302	0.272
		0.276	21.50	20.00	18.50		0.119	19.95	18.45	16.95	Back Side 15mm	0.195	0.138	0.084	0.060	0.280	0.198	0.241	0.151	0.087	0.367	0.439	0.436

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 1g SAR is 0.570 W/kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

### 13.2.14 Hotspot Simultaneous Transmission SAR Evaluation for ENDC and WLAN and BTn

Band	LTE Antenna	4G		ENDC		NR Antenna	NSA		ENDC		Position	Stand alone SAR										SUM SAR		
		LTE	LTE Max	LTE Max	LTE Max		NR SAR	NR Max	NR Max	NR Max		LTE	LTE	NR SAR	NR SAR	1	2	3	4	5	Bluetooth	1+5	2+3	2+4+5
		SAR	Power	Power	Power		Power	Power	Power	Power		SAR	SAR	SAR	SAR	ENDC (LTE+NR)	ENDC (LTE+NR)	2.4GWIFI	5GWIFI Max.					
		State3	State3	State3	State8		State3	State3	State3	State8		State3	State8	State3	State8	State3	State8	Level7	Level7/8					
DC_7A+5A	Ant.3		0.175	20.20	18.70	17.20	Ant.0	0.223	24.20	24.20	24.20	Front	0.124	0.088	0.223	0.223	0.347	0.311	0.562	0.112	0.199	0.546	0.873	0.622
			0.152	20.20	18.70	17.20		0.245	24.20	24.20	24.20	Back Side	0.108	0.076	0.245	0.245	0.353	0.321	0.571	0.152	0.217	0.570	0.892	0.690
			0.000	20.20	18.70	17.20		0.244	24.20	24.20	24.20	Left Edge	0.000	0.000	0.244	0.244	0.244	0.244	0.539	0.054	0.193	0.437	0.783	0.491
			0.080	20.20	18.70	17.20		0.122	24.20	24.20	24.20	Right	0.057	0.040	0.122	0.122	0.179	0.162	0.000	0.000	0.000	0.179	0.162	0.162
			0.300	20.20	18.70	17.20		0.000	24.20	24.20	24.20	Top Edge	0.212	0.150	0.000	0.000	0.212	0.150	0.309	0.485	0.130	0.342	0.459	0.765
			0.000	20.20	18.70	17.20		0.223	24.20	24.20	24.20	Bottom	0.000	0.000	0.223	0.223	0.223	0.223	0.000	0.000	0.000	0.223	0.223	0.223
DC_7A+5A	Ant.0		0.477	24.20	22.45	20.70	Ant.1	0.169	24.20	24.20	24.20	Front	0.319	0.213	0.169	0.169	0.488	0.382	0.562	0.112	0.199	0.887	0.944	0.693
			0.578	24.20	22.45	20.70		0.283	24.20	24.20	24.20	Back Side	0.386	0.258	0.283	0.283	0.669	0.541	0.571	0.152	0.217	0.886	1.112	0.910
			0.459	24.20	22.45	20.70		0.000	24.20	24.20	24.20	Left Edge	0.307	0.205	0.000	0.000	0.307	0.205	0.539	0.054	0.193	0.500	0.744	0.452
			0.299	24.20	22.45	20.70		0.294	24.20	24.20	24.20	Right	0.200	0.134	0.294	0.294	0.494	0.428	0.000	0.000	0.000	0.494	0.428	0.428
			0.000	24.20	22.45	20.70		0.245	24.20	24.20	24.20	Top Edge	0.000	0.000	0.245	0.245	0.245	0.245	0.309	0.485	0.130	0.375	0.554	0.860
			0.374	24.20	22.45	20.70		0.000	24.20	24.20	24.20	Bottom	0.250	0.167	0.000	0.000	0.250	0.167	0.000	0.000	0.000	0.250	0.167	0.167
DC_7A+5A	Ant.3		0.175	20.20	18.70	17.20	Ant.1	0.169	24.20	24.20	24.20	Front	0.124	0.088	0.169	0.169	0.293	0.257	0.562	0.112	0.199	0.492	0.819	0.568
			0.152	20.20	18.70	17.20		0.283	24.20	24.20	24.20	Back Side	0.108	0.076	0.283	0.283	0.391	0.359	0.571	0.152	0.217	0.608	0.930	0.728
			0.000	20.20	18.70	17.20		0.000	24.20	24.20	24.20	Left Edge	0.000	0.000	0.000	0.000	0.000	0.000	0.539	0.054	0.193	0.193	0.539	0.247

		0.080	20.20	18.70	17.20					Right Edge 10mm	0.057	0.040	0.294	0.294	0.351	0.334	0.000	0.000	0.000	0.351	0.334	0.334				
		0.300	20.20	18.70	17.20					0.245	24.20	24.20	24.20	Top Edge 10mm	0.212	0.150	0.245	0.245	0.457	0.395	0.309	0.485	0.130	0.587	0.704	1.010
		0.000	20.20	18.70	17.20					0.000	24.20	24.20	24.20	Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_86A+n5A	Ant.3	0.413	23.00	21.25	20.00	Ant.0				Front 10mm	0.223	24.20	24.20	24.20	0.276	0.207	0.223	0.223	0.499	0.430	0.562	0.112	0.199	0.698	0.992	0.741
		0.457	23.00	21.25	20.00					0.245	24.20	24.20	24.20	Back Side 10mm	0.305	0.229	0.245	0.245	0.550	0.474	0.571	0.152	0.217	0.767	1.045	0.843
		0.000	23.00	21.25	20.00					0.244	24.20	24.20	24.20	Left Edge 10mm	0.000	0.000	0.244	0.244	0.244	0.244	0.539	0.054	0.193	0.437	0.783	0.491
		0.147	23.00	21.25	20.00					0.122	24.20	24.20	24.20	Right Edge 10mm	0.098	0.074	0.122	0.122	0.220	0.196	0.000	0.000	0.000	0.220	0.196	0.196
		0.608	23.00	21.25	20.00					0.000	24.20	24.20	24.20	Top Edge 10mm	0.406	0.305	0.000	0.000	0.406	0.305	0.309	0.485	0.130	0.536	0.614	0.920
		0.000	23.00	21.25	20.00					0.223	24.20	24.20	24.20	Bottom Edge 10mm	0.000	0.000	0.223	0.223	0.223	0.223	0.000	0.000	0.000	0.223	0.223	0.223
DC_86A+n5A	Ant.0	0.463	21.50	20.00	18.50	Ant.1				Front 10mm	0.169	24.20	24.20	24.20	0.328	0.232	0.169	0.169	0.497	0.401	0.562	0.112	0.199	0.696	0.963	0.712
		0.431	21.50	20.00	18.50					0.283	24.20	24.20	24.20	Back Side 10mm	0.305	0.216	0.283	0.283	0.588	0.499	0.571	0.152	0.217	0.805	1.070	0.868
		0.448	21.50	20.00	18.50					0.000	24.20	24.20	24.20	Left Edge 10mm	0.317	0.225	0.000	0.000	0.317	0.225	0.539	0.054	0.193	0.510	0.764	0.472
		0.083	21.50	20.00	18.50					0.294	24.20	24.20	24.20	Right Edge 10mm	0.059	0.042	0.294	0.294	0.353	0.336	0.000	0.000	0.000	0.353	0.336	0.336
		0.000	21.50	20.00	18.50					0.245	24.20	24.20	24.20	Top Edge 10mm	0.000	0.000	0.245	0.245	0.245	0.245	0.309	0.485	0.130	0.375	0.554	0.860
		0.463	21.50	20.00	18.50					0.000	24.20	24.20	24.20	Bottom Edge 10mm	0.328	0.232	0.000	0.000	0.328	0.232	0.000	0.000	0.000	0.328	0.232	0.232
DC_86A+n5A	Ant.3	0.413	23.00	21.25	20.00	Ant.1				Front 10mm	0.169	24.20	24.20	24.20	0.276	0.207	0.169	0.169	0.445	0.376	0.562	0.112	0.199	0.644	0.938	0.687
		0.457	23.00	21.25	20.00					0.283	24.20	24.20	24.20	Back Side 10mm	0.305	0.229	0.283	0.283	0.588	0.512	0.571	0.152	0.217	0.805	1.083	0.881

		0.000	23.00	21.25	20.00		0.000	24.20	24.20	24.20	Left Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.539	0.054	0.193	0.193	0.539	0.247
		0.147	23.00	21.25	20.00		0.294	24.20	24.20	24.20	Right Edge 10mm	0.098	0.074	0.294	0.294	0.392	0.368	0.000	0.000	0.000	0.392	0.368	0.368
		0.698	23.00	21.25	20.00		0.245	24.20	24.20	24.20	Top Edge 10mm	0.406	0.305	0.245	0.245	0.651	0.550	0.309	0.485	0.130	0.781	0.859	1.165
		0.000	23.00	21.25	20.00		0.000	24.20	24.20	24.20	Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_2A+n7A	Ant.0	0.306	22.25	20.50	18.25	Ant.3	0.194	20.70	19.20	17.70	Front Side 10mm	0.205	0.122	0.137	0.097	0.342	0.219	0.562	0.112	0.199	0.541	0.781	0.530
		0.280	22.25	20.50	18.25		0.178	20.70	19.20	17.70	Back Side 10mm	0.187	0.111	0.126	0.089	0.313	0.201	0.571	0.152	0.217	0.530	0.772	0.570
		0.000	22.25	20.50	18.25		0.000	20.70	19.20	17.70	Left Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.539	0.054	0.193	0.193	0.539	0.247
		0.124	22.25	20.50	18.25		0.093	20.70	19.20	17.70	Right Edge 10mm	0.083	0.049	0.066	0.047	0.149	0.096	0.000	0.000	0.000	0.149	0.096	0.096
		0.454	22.25	20.50	18.25		0.327	20.70	19.20	17.70	Top Edge 10mm	0.303	0.181	0.231	0.164	0.535	0.345	0.309	0.485	0.130	0.665	0.654	0.960
		0.000	22.25	20.50	18.25		0.000	20.70	19.20	17.70	Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_2A+n7A	Ant.0	0.306	22.25	20.50	18.25	Ant.4	0.065	21.95	20.45	18.95	Front Side 10mm	0.205	0.122	0.046	0.033	0.251	0.154	0.562	0.112	0.199	0.450	0.716	0.465
		0.280	22.25	20.50	18.25		0.504	21.95	20.45	18.95	Back Side 10mm	0.187	0.111	0.357	0.253	0.544	0.364	0.571	0.152	0.217	0.761	0.935	0.733
		0.000	22.25	20.50	18.25		0.000	21.95	20.45	18.95	Left Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.539	0.054	0.193	0.193	0.539	0.247
		0.124	22.25	20.50	18.25		0.373	21.95	20.45	18.95	Right Edge 10mm	0.083	0.049	0.264	0.167	0.347	0.236	0.000	0.000	0.000	0.347	0.236	0.236
		0.454	22.25	20.50	18.25		0.070	21.95	20.45	18.95	Top Edge 10mm	0.303	0.181	0.050	0.035	0.353	0.216	0.309	0.485	0.130	0.483	0.525	0.831
		0.000	22.25	20.50	18.25		0.000	21.95	20.45	18.95	Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_4A+n7A	Ant.0	0.625	23.00	21.50	20.00	Ant.3	0.194	20.70	19.20	17.70	Front Side 10mm	0.442	0.313	0.137	0.097	0.580	0.410	0.562	0.112	0.199	0.779	0.972	0.721

		0.572	23.00	21.50	20.00		0.178	20.70	19.20	17.70	Back Side 10mm	0.405	0.287	0.126	0.089	0.531	0.376	0.571	0.152	0.217	0.748	0.947	0.745
		0.543	23.00	21.50	20.00		0.000	20.70	19.20	17.70	Left Edge 10mm	0.384	0.272	0.000	0.000	0.384	0.272	0.539	0.054	0.193	0.577	0.811	0.519
		0.101	23.00	21.50	20.00		0.093	20.70	19.20	17.70	Right Edge 10mm	0.072	0.051	0.066	0.047	0.137	0.097	0.000	0.000	0.000	0.137	0.097	0.097
		0.000	23.00	21.50	20.00		0.327	20.70	19.20	17.70	Top Edge 10mm	0.000	0.000	0.231	0.164	0.231	0.164	0.309	0.485	0.130	0.361	0.473	0.779
		0.625	23.00	21.50	20.00		0.000	20.70	19.20	17.70	Bottom Edge 10mm	0.442	0.313	0.000	0.000	0.442	0.313	0.000	0.000	0.000	0.442	0.313	0.313
DC_4A+n7A	Ant.0	0.625	23.00	21.50	20.00	Ant.4	0.065	21.95	20.45	18.95	Front Side 10mm	0.442	0.313	0.046	0.033	0.488	0.346	0.562	0.112	0.199	0.687	0.908	0.657
		0.572	23.00	21.50	20.00		0.504	21.95	20.45	18.95	Back Side 10mm	0.405	0.287	0.357	0.253	0.762	0.539	0.571	0.152	0.217	0.979	1.110	0.908
		0.543	23.00	21.50	20.00		0.000	21.95	20.45	18.95	Left Edge 10mm	0.384	0.272	0.000	0.000	0.384	0.272	0.539	0.054	0.193	0.577	0.811	0.519
		0.101	23.00	21.50	20.00		0.373	21.95	20.45	18.95	Right Edge 10mm	0.072	0.051	0.264	0.187	0.336	0.238	0.000	0.000	0.000	0.336	0.238	0.238
		0.000	23.00	21.50	20.00		0.070	21.95	20.45	18.95	Top Edge 10mm	0.000	0.000	0.050	0.035	0.050	0.035	0.309	0.485	0.130	0.180	0.344	0.650
		0.625	23.00	21.50	20.00		0.000	21.95	20.45	18.95	Bottom Edge 10mm	0.442	0.313	0.000	0.000	0.442	0.313	0.000	0.000	0.000	0.442	0.313	0.313
DC_5A+n7A	Ant.1	0.265	24.50	24.50	23.00	Ant.0	0.560	24.20	22.45	20.95	Front Side 10mm	0.265	0.188	0.374	0.265	0.639	0.453	0.562	0.112	0.199	0.838	1.015	0.764
		0.425	24.50	24.50	23.00		0.663	24.20	22.45	20.95	Back Side 10mm	0.425	0.301	0.443	0.314	0.868	0.615	0.571	0.152	0.217	1.085	1.186	0.984
		0.000	24.50	24.50	23.00		0.568	24.20	22.45	20.95	Left Edge 10mm	0.000	0.000	0.380	0.269	0.380	0.269	0.539	0.054	0.193	0.573	0.808	0.516
		0.498	24.50	24.50	23.00		0.398	24.20	22.45	20.95	Right Edge 10mm	0.498	0.353	0.266	0.188	0.764	0.541	0.000	0.000	0.000	0.764	0.541	0.541
		0.278	24.50	24.50	23.00		0.000	24.20	22.45	20.95	Top Edge 10mm	0.278	0.197	0.000	0.000	0.278	0.197	0.309	0.485	0.130	0.408	0.506	0.812
		0.000	24.50	24.50	23.00		0.462	24.20	22.45	20.95	Bottom Edge 10mm	0.000	0.000	0.309	0.219	0.309	0.219	0.000	0.000	0.000	0.309	0.219	0.219

DC_SA+n7A	Ant.0	0.269	24.50	24.50	23.25	Ant.3	0.194	20.70	19.20	17.70	Front Side 10mm	0.269	0.202	0.137	0.097	0.406	0.299	0.562	0.112	0.199	0.605	0.861	0.610
		0.278	24.50	24.50	23.25		0.178	20.70	19.20	17.70	Back Side 10mm	0.278	0.208	0.126	0.089	0.404	0.298	0.571	0.152	0.217	0.621	0.869	0.667
		0.207	24.50	24.50	23.25		0.000	20.70	19.20	17.70	Left Edge 10mm	0.207	0.155	0.000	0.000	0.207	0.155	0.539	0.054	0.193	0.400	0.694	0.402
		0.163	24.50	24.50	23.25		0.093	20.70	19.20	17.70	Right Edge 10mm	0.163	0.122	0.066	0.047	0.229	0.169	0.000	0.000	0.000	0.229	0.169	0.169
		0.000	24.50	24.50	23.25		0.327	20.70	19.20	17.70	Top Edge 10mm	0.000	0.000	0.231	0.164	0.231	0.164	0.309	0.485	0.130	0.361	0.473	0.779
		0.269	24.50	24.50	23.25		0.000	20.70	19.20	17.70	Bottom Edge 10mm	0.269	0.202	0.000	0.000	0.269	0.202	0.000	0.000	0.000	0.269	0.202	0.202
DC_SA+n7A	Ant.1	0.265	24.50	24.50	23.00	Ant.3	0.194	20.70	19.20	17.70	Front Side 10mm	0.265	0.188	0.137	0.097	0.402	0.285	0.562	0.112	0.199	0.601	0.847	0.596
		0.425	24.50	24.50	23.00		0.178	20.70	19.20	17.70	Back Side 10mm	0.425	0.301	0.126	0.089	0.551	0.390	0.571	0.152	0.217	0.768	0.961	0.759
		0.000	24.50	24.50	23.00		0.000	20.70	19.20	17.70	Left Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.539	0.054	0.193	0.193	0.539	0.247
		0.498	24.50	24.50	23.00		0.093	20.70	19.20	17.70	Right Edge 10mm	0.498	0.353	0.066	0.047	0.564	0.399	0.000	0.000	0.000	0.564	0.399	0.399
		0.278	24.50	24.50	23.00		0.327	20.70	19.20	17.70	Top Edge 10mm	0.278	0.197	0.231	0.164	0.509	0.361	0.309	0.485	0.130	0.639	0.670	0.976
		0.000	24.50	24.50	23.00		0.000	20.70	19.20	17.70	Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_SA+n7A	Ant.0	0.269	24.50	24.50	23.25	Ant.4	0.065	21.95	20.45	18.95	Front Side 10mm	0.269	0.202	0.046	0.033	0.315	0.234	0.562	0.112	0.199	0.514	0.796	0.545
		0.278	24.50	24.50	23.25		0.504	21.95	20.45	18.95	Back Side 10mm	0.278	0.208	0.357	0.253	0.635	0.461	0.571	0.152	0.217	0.852	1.032	0.830
		0.207	24.50	24.50	23.25		0.000	21.95	20.45	18.95	Left Edge 10mm	0.207	0.155	0.000	0.000	0.207	0.155	0.539	0.054	0.193	0.400	0.694	0.402
		0.163	24.50	24.50	23.25		0.373	21.95	20.45	18.95	Right Edge 10mm	0.163	0.122	0.264	0.187	0.427	0.309	0.000	0.000	0.000	0.427	0.309	0.309
		0.000	24.50	24.50	23.25		0.070	21.95	20.45	18.95	Top Edge 10mm	0.000	0.000	0.050	0.035	0.050	0.035	0.309	0.485	0.130	0.180	0.344	0.650

		0.269	24.50	24.50	23.25					Bottom Edge 10mm	0.269	0.202	0.000	0.000	0.269	0.202	0.000	0.000	0.000	0.269	0.202	0.202
DC_5A+n7A	Ant.1	0.265	24.50	24.50	23.00	Ant.4			Front Side 10mm	0.065	0.188	0.046	0.033	0.311	0.220	0.562	0.112	0.199	0.510	0.782	0.531	
		0.425	24.50	24.50	23.00				Back Side 10mm	0.504	0.301	0.357	0.253	0.782	0.553	0.571	0.152	0.217	0.999	1.124	0.922	
		0.000	24.50	24.50	23.00				Left Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.539	0.054	0.193	0.193	0.539	0.247	
		0.498	24.50	24.50	23.00				Right Edge 10mm	0.373	0.353	0.264	0.187	0.762	0.539	0.000	0.000	0.000	0.762	0.539	0.539	
		0.278	24.50	24.50	23.00				Top Edge 10mm	0.070	0.197	0.050	0.035	0.328	0.232	0.309	0.485	0.130	0.458	0.541	0.847	
		0.000	24.50	24.50	23.00				Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
DC_66A+n7A	Ant.0	0.463	21.50	20.00	18.50	Ant.3			Front Side 10mm	0.194	0.232	0.137	0.097	0.465	0.329	0.562	0.112	0.199	0.664	0.891	0.640	
		0.431	21.50	20.00	18.50				Back Side 10mm	0.178	0.216	0.126	0.089	0.431	0.305	0.571	0.152	0.217	0.648	0.876	0.674	
		0.448	21.50	20.00	18.50				Left Edge 10mm	0.000	0.225	0.000	0.000	0.317	0.225	0.539	0.054	0.193	0.510	0.764	0.472	
		0.083	21.50	20.00	18.50				Right Edge 10mm	0.093	0.042	0.066	0.047	0.125	0.088	0.000	0.000	0.000	0.125	0.088	0.088	
		0.000	21.50	20.00	18.50				Top Edge 10mm	0.327	0.000	0.231	0.164	0.231	0.164	0.309	0.485	0.130	0.361	0.473	0.779	
		0.463	21.50	20.00	18.50				Bottom Edge 10mm	0.000	0.232	0.000	0.000	0.328	0.232	0.000	0.000	0.000	0.328	0.232	0.232	
DC_66A+n7A	Ant.0	0.463	21.50	20.00	18.50	Ant.4			Front Side 10mm	0.065	0.232	0.046	0.033	0.374	0.265	0.562	0.112	0.199	0.573	0.827	0.576	
		0.431	21.50	20.00	18.50				Back Side 10mm	0.504	0.216	0.357	0.253	0.662	0.469	0.571	0.152	0.217	0.879	1.040	0.838	
		0.448	21.50	20.00	18.50				Left Edge 10mm	0.000	0.225	0.000	0.000	0.317	0.225	0.539	0.054	0.193	0.510	0.764	0.472	
		0.083	21.50	20.00	18.50				Right Edge 10mm	0.373	0.042	0.264	0.187	0.323	0.229	0.000	0.000	0.000	0.323	0.229	0.229	

		0.000	21.50	20.00	18.50		0.070	21.95	20.45	18.95	Top Edge 10mm	0.000	0.000	0.050	0.035	0.050	0.035	0.309	0.485	0.130	0.180	0.344	0.650
		0.463	21.50	20.00	18.50		0.000	21.95	20.45	18.95	Bottom Edge 10mm	0.328	0.232	0.000	0.000	0.328	0.232	0.000	0.000	0.000	0.328	0.232	0.232
DC_2A+n66A	Ant.0	0.306	22.25	20.50	18.25	Ant.3	0.383	21.95	20.20	18.95	Front Side 10mm	0.205	0.122	0.256	0.192	0.460	0.314	0.562	0.112	0.199	0.659	0.876	0.625
		0.280	22.25	20.50	18.25		0.427	21.95	20.20	18.95	Back Side 10mm	0.187	0.111	0.285	0.214	0.473	0.325	0.571	0.152	0.217	0.690	0.896	0.694
		0.000	22.25	20.50	18.25		0.000	21.95	20.20	18.95	Left Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.539	0.054	0.193	0.193	0.539	0.247
		0.124	22.25	20.50	18.25		0.130	21.95	20.20	18.95	Right Edge 10mm	0.083	0.049	0.087	0.065	0.170	0.115	0.000	0.000	0.000	0.170	0.115	0.115
		0.454	22.25	20.50	18.25		0.579	21.95	20.20	18.95	Top Edge 10mm	0.303	0.181	0.387	0.290	0.690	0.471	0.309	0.485	0.130	0.820	0.780	1.086
		0.000	22.25	20.50	18.25		0.000	21.95	20.20	18.95	Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_5A+n66A	Ant.1	0.265	24.50	24.50	23.00	Ant.0	0.761	22.95	21.45	19.70	Front Side 10mm	0.265	0.188	0.539	0.360	0.804	0.548	0.562	0.112	0.199	1.003	1.110	0.859
		0.425	24.50	24.50	23.00		0.703	22.95	21.45	19.70	Back Side 10mm	0.425	0.301	0.498	0.333	0.923	0.634	0.571	0.152	0.217	1.140	1.205	1.003
		0.000	24.50	24.50	23.00		0.691	22.95	21.45	19.70	Left Edge 10mm	0.000	0.000	0.489	0.327	0.489	0.327	0.539	0.054	0.193	0.682	0.866	0.574
		0.498	24.50	24.50	23.00		0.146	22.95	21.45	19.70	Right Edge 10mm	0.498	0.353	0.103	0.069	0.601	0.422	0.000	0.000	0.000	0.601	0.422	0.422
		0.278	24.50	24.50	23.00		0.000	22.95	21.45	19.70	Top Edge 10mm	0.278	0.197	0.000	0.000	0.278	0.197	0.309	0.485	0.130	0.408	0.506	0.812
		0.000	24.50	24.50	23.00		0.761	22.95	21.45	19.70	Bottom Edge 10mm	0.000	0.000	0.539	0.360	0.539	0.360	0.000	0.000	0.000	0.539	0.360	0.360
DC_5A+n66A	Ant.0	0.269	24.50	24.50	23.25	Ant.3	0.383	21.95	20.20	18.95	Front Side 10mm	0.269	0.202	0.256	0.192	0.525	0.394	0.562	0.112	0.199	0.724	0.956	0.705
		0.278	24.50	24.50	23.25		0.427	21.95	20.20	18.95	Back Side 10mm	0.278	0.208	0.285	0.214	0.563	0.422	0.571	0.152	0.217	0.780	0.993	0.791
		0.207	24.50	24.50	23.25		0.000	21.95	20.20	18.95	Left Edge 10mm	0.207	0.155	0.000	0.000	0.207	0.155	0.539	0.054	0.193	0.400	0.694	0.402



		0.163	24.50	24.50	23.25		0.130	21.95	20.20	18.95	Right Edge 10mm	0.163	0.122	0.087	0.065	0.250	0.187	0.000	0.000	0.000	0.250	0.187	0.187
		0.000	24.50	24.50	23.25		0.579	21.95	20.20	18.95	Top Edge 10mm	0.000	0.000	0.387	0.290	0.387	0.290	0.309	0.485	0.130	0.517	0.599	0.905
		0.269	24.50	24.50	23.25		0.000	21.95	20.20	18.95	Bottom Edge 10mm	0.269	0.202	0.000	0.000	0.269	0.202	0.000	0.000	0.000	0.269	0.202	0.202
DC_5A+r66A	Ant.1	0.265	24.50	24.50	23.00	Ant.3	0.383	21.95	20.20	18.95	Front Side 10mm	0.265	0.188	0.256	0.192	0.521	0.380	0.562	0.112	0.199	0.720	0.942	0.691
		0.425	24.50	24.50	23.00		0.427	21.95	20.20	18.95	Back Side 10mm	0.425	0.301	0.285	0.214	0.710	0.515	0.571	0.152	0.217	0.927	1.086	0.884
		0.000	24.50	24.50	23.00		0.000	21.95	20.20	18.95	Left Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.539	0.054	0.193	0.193	0.539	0.247
		0.498	24.50	24.50	23.00		0.130	21.95	20.20	18.95	Right Edge 10mm	0.498	0.353	0.087	0.065	0.585	0.418	0.000	0.000	0.000	0.585	0.418	0.418
		0.278	24.50	24.50	23.00		0.579	21.95	20.20	18.95	Top Edge 10mm	0.278	0.197	0.387	0.290	0.665	0.487	0.309	0.485	0.130	0.795	0.796	1.102
		0.000	24.50	24.50	23.00		0.000	21.95	20.20	18.95	Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_7A+r66A	Ant.3	0.175	20.20	17.50	16.00	Ant.0	0.761	22.95	21.45	19.70	Front Side 10mm	0.094	0.067	0.539	0.360	0.633	0.427	0.562	0.112	0.199	0.832	0.989	0.738
		0.152	20.20	17.50	16.00		0.703	22.95	21.45	19.70	Back Side 10mm	0.082	0.058	0.498	0.333	0.579	0.390	0.571	0.152	0.217	0.796	0.961	0.759
		0.000	20.20	17.50	16.00		0.691	22.95	21.45	19.70	Left Edge 10mm	0.000	0.000	0.489	0.327	0.489	0.327	0.539	0.054	0.193	0.682	0.866	0.574
		0.080	20.20	17.50	16.00		0.146	22.95	21.45	19.70	Right Edge 10mm	0.043	0.030	0.103	0.069	0.146	0.099	0.000	0.000	0.000	0.146	0.099	0.099
		0.300	20.20	17.50	16.00		0.000	22.95	21.45	19.70	Top Edge 10mm	0.161	0.114	0.000	0.000	0.161	0.114	0.309	0.485	0.130	0.291	0.423	0.729
DC_12A+r66A	Ant.1	0.208	24.50	24.50	24.50	Ant.0	0.761	22.95	21.45	19.70	Front Side 10mm	0.208	0.208	0.539	0.360	0.747	0.568	0.562	0.112	0.199	0.946	1.130	0.879
0.374	24.50	24.50	24.50	0.703	22.95	21.45	19.70	Back Side 10mm	0.374	0.374	0.498	0.333	0.872	0.707	0.571	0.152	0.217	1.089	1.278	1.076			

		0.000	24.50	24.50	24.50		0.691	22.95	21.45	19.70	Left Edge 10mm	0.000	0.000	0.489	0.327	0.489	0.327	0.539	0.054	0.193	0.682	0.866	0.574
		0.468	24.50	24.50	24.50		0.146	22.95	21.45	19.70	Right Edge 10mm	0.468	0.468	0.103	0.069	0.571	0.537	0.000	0.000	0.000	0.571	0.537	0.537
		0.173	24.50	24.50	24.50		0.000	22.95	21.45	19.70	Top Edge 10mm	0.173	0.173	0.000	0.000	0.173	0.173	0.309	0.485	0.130	0.303	0.482	0.788
		0.000	24.50	24.50	24.50		0.761	22.95	21.45	19.70	Bottom Edge 10mm	0.000	0.000	0.539	0.360	0.539	0.360	0.000	0.000	0.000	0.539	0.360	0.360
DC_12A+r66A	Ant.0	0.085	24.50	24.50	24.50	Ant.3	0.383	21.95	20.20	18.95	Front Side 10mm	0.085	0.085	0.256	0.192	0.341	0.277	0.562	0.112	0.199	0.540	0.839	0.588
		0.138	24.50	24.50	24.50		0.427	21.95	20.20	18.95	Back Side 10mm	0.138	0.138	0.285	0.214	0.423	0.352	0.571	0.152	0.217	0.640	0.923	0.721
		0.114	24.50	24.50	24.50		0.000	21.95	20.20	18.95	Left Edge 10mm	0.114	0.114	0.000	0.000	0.114	0.114	0.539	0.054	0.193	0.307	0.653	0.361
		0.132	24.50	24.50	24.50		0.130	21.95	20.20	18.95	Right Edge 10mm	0.132	0.132	0.087	0.065	0.219	0.197	0.000	0.000	0.000	0.219	0.197	0.197
		0.000	24.50	24.50	24.50		0.579	21.95	20.20	18.95	Top Edge 10mm	0.000	0.000	0.387	0.290	0.387	0.290	0.309	0.485	0.130	0.517	0.599	0.905
		0.014	24.50	24.50	24.50		0.000	21.95	20.20	18.95	Bottom Edge 10mm	0.014	0.014	0.000	0.000	0.014	0.014	0.000	0.000	0.000	0.014	0.014	0.014
DC_12A+r66A	Ant.1	0.208	24.50	24.50	24.50	Ant.3	0.383	21.95	20.20	18.95	Front Side 10mm	0.208	0.208	0.256	0.192	0.464	0.400	0.562	0.112	0.199	0.663	0.962	0.711
		0.374	24.50	24.50	24.50		0.427	21.95	20.20	18.95	Back Side 10mm	0.374	0.374	0.285	0.214	0.659	0.588	0.571	0.152	0.217	0.876	1.159	0.957
		0.000	24.50	24.50	24.50		0.000	21.95	20.20	18.95	Left Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.539	0.054	0.193	0.193	0.539	0.247
		0.468	24.50	24.50	24.50		0.130	21.95	20.20	18.95	Right Edge 10mm	0.468	0.468	0.087	0.065	0.555	0.533	0.000	0.000	0.000	0.555	0.533	0.533
		0.173	24.50	24.50	24.50		0.579	21.95	20.20	18.95	Top Edge 10mm	0.173	0.173	0.387	0.290	0.560	0.463	0.309	0.485	0.130	0.690	0.772	1.078
		0.000	24.50	24.50	24.50		0.000	21.95	20.20	18.95	Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_4A+r38A	Ant.0	0.625	23.00	21.50	20.00	Ant.3	0.258	20.20	18.70	17.20	Front Side 10mm	0.442	0.313	0.183	0.129	0.625	0.443	0.562	0.112	0.199	0.824	1.005	0.754

		0.572	23.00	21.50	20.00		0.280	20.20	18.70	17.20	Back Side 10mm	0.405	0.287	0.198	0.140	0.603	0.427	0.571	0.152	0.217	0.820	0.998	0.796
		0.543	23.00	21.50	20.00		0.138	20.20	18.70	17.20	Left Edge 10mm	0.384	0.272	0.098	0.069	0.482	0.341	0.539	0.054	0.193	0.675	0.880	0.588
		0.101	23.00	21.50	20.00		0.503	20.20	18.70	17.20	Right Edge 10mm	0.072	0.051	0.356	0.252	0.428	0.303	0.000	0.000	0.000	0.428	0.303	0.303
		0.000	23.00	21.50	20.00		0.000	20.20	18.70	17.20	Top Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.309	0.485	0.130	0.130	0.309	0.615
		0.625	23.00	21.50	20.00		0.258	20.20	18.70	17.20	Bottom Edge 10mm	0.442	0.313	0.183	0.129	0.625	0.443	0.000	0.000	0.000	0.625	0.443	0.443
DC_4A+n38A	Ant.0	0.625	23.00	21.50	20.00	Ant.4	0.098	20.45	18.70	17.45	Front Side 10mm	0.442	0.313	0.064	0.048	0.507	0.361	0.562	0.112	0.199	0.706	0.923	0.672
		0.572	23.00	21.50	20.00		0.290	20.45	18.70	17.45	Back Side 10mm	0.405	0.287	0.194	0.145	0.599	0.432	0.571	0.152	0.217	0.816	1.003	0.801
		0.543	23.00	21.50	20.00		0.000	20.45	18.70	17.45	Left Edge 10mm	0.384	0.272	0.000	0.000	0.384	0.272	0.539	0.054	0.193	0.577	0.811	0.519
		0.101	23.00	21.50	20.00		0.148	20.45	18.70	17.45	Right Edge 10mm	0.072	0.051	0.099	0.074	0.170	0.125	0.000	0.000	0.000	0.170	0.125	0.125
		0.000	23.00	21.50	20.00		0.032	20.45	18.70	17.45	Top Edge 10mm	0.000	0.000	0.021	0.016	0.021	0.016	0.309	0.485	0.130	0.151	0.325	0.631
		0.625	23.00	21.50	20.00		0.000	20.45	18.70	17.45	Bottom Edge 10mm	0.442	0.313	0.000	0.000	0.442	0.313	0.000	0.000	0.000	0.442	0.313	0.313
DC_5A+n38A	Ant.1	0.265	24.50	24.50	23.00	Ant.0	0.422	24.20	23.45	21.95	Front Side 10mm	0.265	0.188	0.355	0.251	0.620	0.439	0.562	0.112	0.199	0.819	1.001	0.750
		0.425	24.50	24.50	23.00		0.461	24.20	23.45	21.95	Back Side 10mm	0.425	0.301	0.388	0.275	0.813	0.575	0.571	0.152	0.217	1.030	1.146	0.944
		0.000	24.50	24.50	23.00		0.446	24.20	23.45	21.95	Left Edge 10mm	0.000	0.000	0.375	0.266	0.375	0.266	0.539	0.054	0.193	0.568	0.805	0.513
		0.498	24.50	24.50	23.00		0.330	24.20	23.45	21.95	Right Edge 10mm	0.498	0.353	0.278	0.197	0.776	0.549	0.000	0.000	0.000	0.776	0.549	0.549
		0.278	24.50	24.50	23.00		0.000	24.20	23.45	21.95	Top Edge 10mm	0.278	0.197	0.000	0.000	0.278	0.197	0.309	0.485	0.130	0.408	0.506	0.812
		0.000	24.50	24.50	23.00		0.326	24.20	23.45	21.95	Bottom Edge 10mm	0.000	0.000	0.274	0.194	0.274	0.194	0.000	0.000	0.000	0.274	0.194	0.194

DC_5A+n38A	Ant.0	0.269	24.50	24.50	23.25	Ant.3	0.258	20.20	18.70	17.20	Front Side 10mm	0.269	0.202	0.183	0.129	0.452	0.331	0.562	0.112	0.199	0.651	0.893	0.642
		0.278	24.50	24.50	23.25		0.280	20.20	18.70	17.20	Back Side 10mm	0.278	0.208	0.198	0.140	0.476	0.349	0.571	0.152	0.217	0.693	0.920	0.718
		0.207	24.50	24.50	23.25		0.138	20.20	18.70	17.20	Left Edge 10mm	0.207	0.155	0.098	0.069	0.305	0.224	0.539	0.054	0.193	0.498	0.783	0.471
		0.163	24.50	24.50	23.25		0.503	20.20	18.70	17.20	Right Edge 10mm	0.163	0.122	0.356	0.252	0.519	0.374	0.000	0.000	0.000	0.519	0.374	0.374
		0.000	24.50	24.50	23.25		0.000	20.20	18.70	17.20	Top Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.309	0.485	0.130	0.130	0.309	0.615
		0.269	24.50	24.50	23.25		0.258	20.20	18.70	17.20	Bottom Edge 10mm	0.269	0.202	0.183	0.129	0.452	0.331	0.000	0.000	0.000	0.452	0.331	0.331
DC_5A+n38A	Ant.1	0.265	24.50	24.50	23.00	Ant.3	0.258	20.20	18.70	17.20	Front Side 10mm	0.265	0.188	0.183	0.129	0.448	0.317	0.562	0.112	0.199	0.647	0.879	0.628
		0.425	24.50	24.50	23.00		0.280	20.20	18.70	17.20	Back Side 10mm	0.425	0.301	0.198	0.140	0.623	0.441	0.571	0.152	0.217	0.840	1.012	0.810
		0.000	24.50	24.50	23.00		0.138	20.20	18.70	17.20	Left Edge 10mm	0.000	0.000	0.098	0.069	0.098	0.069	0.539	0.054	0.193	0.291	0.608	0.316
		0.498	24.50	24.50	23.00		0.503	20.20	18.70	17.20	Right Edge 10mm	0.498	0.353	0.356	0.252	0.854	0.605	0.000	0.000	0.000	0.854	0.605	0.605
		0.278	24.50	24.50	23.00		0.000	20.20	18.70	17.20	Top Edge 10mm	0.278	0.197	0.000	0.000	0.278	0.197	0.309	0.485	0.130	0.408	0.506	0.812
		0.000	24.50	24.50	23.00		0.258	20.20	18.70	17.20	Bottom Edge 10mm	0.000	0.000	0.183	0.129	0.183	0.129	0.000	0.000	0.000	0.183	0.129	0.129
DC_5A+n38A	Ant.0	0.269	24.50	24.50	23.25	Ant.4	0.096	20.45	18.70	17.45	Front Side 10mm	0.269	0.202	0.064	0.048	0.333	0.250	0.562	0.112	0.199	0.532	0.812	0.561
		0.278	24.50	24.50	23.25		0.290	20.45	18.70	17.45	Back Side 10mm	0.278	0.208	0.194	0.145	0.472	0.354	0.571	0.152	0.217	0.689	0.925	0.723
		0.207	24.50	24.50	23.25		0.000	20.45	18.70	17.45	Left Edge 10mm	0.207	0.155	0.000	0.000	0.207	0.155	0.539	0.054	0.193	0.400	0.694	0.402
		0.163	24.50	24.50	23.25		0.148	20.45	18.70	17.45	Right Edge 10mm	0.163	0.122	0.099	0.074	0.262	0.196	0.000	0.000	0.000	0.262	0.196	0.196
		0.000	24.50	24.50	23.25		0.032	20.45	18.70	17.45	Top Edge 10mm	0.000	0.000	0.021	0.016	0.021	0.016	0.309	0.485	0.130	0.151	0.325	0.631

		0.269	24.50	24.50	23.25					Bottom Edge 10mm	0.269	0.202	0.000	0.000	0.269	0.202	0.000	0.000	0.000	0.269	0.202	0.202	
DC_5A+n38A	Ant.1	0.265	24.50	24.50	23.00	Ant.4	0.096	20.45	18.70	17.45	Front Side 10mm	0.265	0.188	0.064	0.048	0.329	0.236	0.562	0.112	0.199	0.528	0.798	0.547
		0.425	24.50	24.50	23.00		0.290	20.45	18.70	17.45	Back Side 10mm	0.425	0.301	0.194	0.145	0.619	0.446	0.571	0.152	0.217	0.836	1.017	0.815
		0.000	24.50	24.50	23.00		0.000	20.45	18.70	17.45	Left Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.539	0.054	0.193	0.193	0.539	0.247
		0.498	24.50	24.50	23.00		0.148	20.45	18.70	17.45	Right Edge 10mm	0.498	0.353	0.099	0.074	0.597	0.427	0.000	0.000	0.000	0.597	0.427	0.427
		0.278	24.50	24.50	23.00		0.032	20.45	18.70	17.45	Top Edge 10mm	0.278	0.197	0.021	0.016	0.299	0.213	0.309	0.485	0.130	0.429	0.522	0.828
		0.000	24.50	24.50	23.00		0.000	20.45	18.70	17.45	Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_66A+n38A	Ant.0	0.463	21.50	20.00	18.50	Ant.3	0.258	20.20	18.70	17.20	Front Side 10mm	0.328	0.232	0.183	0.129	0.510	0.361	0.562	0.112	0.199	0.709	0.923	0.672
		0.431	21.50	20.00	18.50		0.280	20.20	18.70	17.20	Back Side 10mm	0.305	0.216	0.198	0.140	0.503	0.356	0.571	0.152	0.217	0.720	0.927	0.725
		0.448	21.50	20.00	18.50		0.138	20.20	18.70	17.20	Left Edge 10mm	0.317	0.225	0.098	0.069	0.415	0.294	0.539	0.054	0.193	0.608	0.833	0.541
		0.083	21.50	20.00	18.50		0.503	20.20	18.70	17.20	Right Edge 10mm	0.059	0.042	0.356	0.252	0.415	0.294	0.000	0.000	0.000	0.415	0.294	0.294
		0.000	21.50	20.00	18.50		0.000	20.20	18.70	17.20	Top Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.309	0.485	0.130	0.130	0.309	0.615
		0.463	21.50	20.00	18.50		0.258	20.20	18.70	17.20	Bottom Edge 10mm	0.328	0.232	0.183	0.129	0.510	0.361	0.000	0.000	0.000	0.510	0.361	0.361
DC_66A+n38A	Ant.0	0.463	21.50	20.00	18.50	Ant.4	0.096	20.45	18.70	17.45	Front Side 10mm	0.328	0.232	0.064	0.048	0.392	0.280	0.562	0.112	0.199	0.591	0.842	0.591
		0.431	21.50	20.00	18.50		0.290	20.45	18.70	17.45	Back Side 10mm	0.305	0.216	0.194	0.145	0.499	0.361	0.571	0.152	0.217	0.716	0.932	0.730
		0.448	21.50	20.00	18.50		0.000	20.45	18.70	17.45	Left Edge 10mm	0.317	0.225	0.000	0.000	0.317	0.225	0.539	0.054	0.193	0.510	0.764	0.472
		0.083	21.50	20.00	18.50		0.148	20.45	18.70	17.45	Right Edge 10mm	0.059	0.042	0.099	0.074	0.158	0.116	0.000	0.000	0.000	0.158	0.116	0.116

		0.000	21.50	20.00	18.50		0.032	20.45	18.70	17.45	Top Edge 10mm	0.000	0.000	0.021	0.016	0.021	0.016	0.309	0.485	0.130	0.151	0.325	0.631
		0.463	21.50	20.00	18.50		0.000	20.45	18.70	17.45	Bottom Edge 10mm	0.328	0.232	0.000	0.000	0.328	0.232	0.000	0.000	0.000	0.328	0.232	0.232
DC_4A+n41A	Ant.0	0.625	23.00	21.50	20.00	Ant.3	0.144	19.70	17.95	16.70	Front Side 10mm	0.442	0.313	0.096	0.072	0.539	0.385	0.562	0.112	0.199	0.738	0.947	0.696
		0.572	23.00	21.50	20.00		0.198	19.70	17.95	16.70	Back Side 10mm	0.405	0.287	0.132	0.099	0.537	0.386	0.571	0.152	0.217	0.754	0.957	0.755
		0.543	23.00	21.50	20.00		0.000	19.70	17.95	16.70	Left Edge 10mm	0.384	0.272	0.000	0.000	0.384	0.272	0.539	0.054	0.193	0.577	0.811	0.519
		0.101	23.00	21.50	20.00		0.083	19.70	17.95	16.70	Right Edge 10mm	0.072	0.051	0.055	0.042	0.127	0.092	0.000	0.000	0.000	0.127	0.092	0.092
		0.000	23.00	21.50	20.00		0.315	19.70	17.95	16.70	Top Edge 10mm	0.000	0.000	0.211	0.158	0.211	0.158	0.309	0.485	0.130	0.341	0.467	0.773
		0.625	23.00	21.50	20.00		0.000	19.70	17.95	16.70	Bottom Edge 10mm	0.442	0.313	0.000	0.000	0.442	0.313	0.000	0.000	0.000	0.442	0.313	0.313
DC_4A+n41A	Ant.0	0.625	23.00	21.50	20.00	Ant.4	0.032	19.95	18.45	16.95	Front Side 10mm	0.442	0.313	0.023	0.016	0.465	0.329	0.562	0.112	0.199	0.864	0.891	0.640
		0.572	23.00	21.50	20.00		0.321	19.95	18.45	16.95	Back Side 10mm	0.405	0.287	0.227	0.161	0.632	0.448	0.571	0.152	0.217	0.849	1.019	0.817
		0.543	23.00	21.50	20.00		0.000	19.95	18.45	16.95	Left Edge 10mm	0.384	0.272	0.000	0.000	0.384	0.272	0.539	0.054	0.193	0.577	0.811	0.519
		0.101	23.00	21.50	20.00		0.214	19.95	18.45	16.95	Right Edge 10mm	0.072	0.051	0.152	0.107	0.223	0.158	0.000	0.000	0.000	0.223	0.158	0.158
		0.000	23.00	21.50	20.00		0.038	19.95	18.45	16.95	Top Edge 10mm	0.000	0.000	0.025	0.018	0.025	0.018	0.309	0.485	0.130	0.155	0.327	0.633
		0.625	23.00	21.50	20.00		0.000	19.95	18.45	16.95	Bottom Edge 10mm	0.442	0.313	0.000	0.000	0.442	0.313	0.000	0.000	0.000	0.442	0.313	0.313
DC_26A+n41A	Ant.1	0.419	24.00	24.00	22.75	Ant.0	0.642	24.20	23.20	21.70	Front Side 10mm	0.419	0.314	0.510	0.361	0.929	0.675	0.562	0.112	0.199	1.128	1.237	0.986
		0.887	24.00	24.00	22.75		0.871	24.20	23.20	21.70	Back Side 10mm	0.887	0.515	0.533	0.377	1.220	0.893	0.571	0.152	0.217	1.437	1.464	1.262
		0.000	24.00	24.00	22.75		0.593	24.20	23.20	21.70	Left Edge 10mm	0.000	0.000	0.471	0.333	0.471	0.333	0.539	0.054	0.193	0.664	0.872	0.590

		0.776	24.00	24.00	22.75		0.656	24.20	23.20	21.70	Right Edge 10mm	0.776	0.582	0.521	0.369	1.297	0.951	0.000	0.000	0.000	1.297	0.951	0.951
		0.372	24.00	24.00	22.75		0.000	24.20	23.20	21.70	Top Edge 10mm	0.372	0.279	0.000	0.000	0.372	0.279	0.309	0.485	0.130	0.502	0.588	0.894
		0.000	24.00	24.00	22.75		0.117	24.20	23.20	21.70	Bottom Edge 10mm	0.000	0.000	0.093	0.066	0.093	0.066	0.000	0.000	0.000	0.093	0.066	0.066
DC_26A+H41A	Ant.0	0.204	24.00	24.00	23.25	Ant.3	0.144	19.70	17.95	16.70	Front Side 10mm	0.204	0.172	0.096	0.072	0.300	0.244	0.562	0.112	0.199	0.499	0.806	0.555
		0.249	24.00	24.00	23.25		0.198	19.70	17.95	16.70	Back Side 10mm	0.249	0.210	0.132	0.099	0.381	0.309	0.571	0.152	0.217	0.598	0.880	0.678
		0.211	24.00	24.00	23.25		0.000	19.70	17.95	16.70	Left Edge 10mm	0.211	0.178	0.000	0.000	0.211	0.178	0.539	0.054	0.193	0.404	0.717	0.425
		0.152	24.00	24.00	23.25		0.083	19.70	17.95	16.70	Right Edge 10mm	0.152	0.128	0.055	0.042	0.207	0.169	0.000	0.000	0.000	0.207	0.169	0.169
		0.000	24.00	24.00	23.25		0.315	19.70	17.95	16.70	Top Edge 10mm	0.000	0.000	0.211	0.158	0.211	0.158	0.309	0.485	0.130	0.341	0.467	0.773
		0.204	24.00	24.00	23.25		0.000	19.70	17.95	16.70	Bottom Edge 10mm	0.204	0.172	0.000	0.000	0.204	0.172	0.000	0.000	0.000	0.204	0.172	0.172
DC_26A+H41A	Ant.1	0.419	24.00	24.00	22.75	Ant.3	0.144	19.70	17.95	16.70	Front Side 10mm	0.419	0.314	0.096	0.072	0.515	0.386	0.562	0.112	0.199	0.714	0.948	0.697
		0.687	24.00	24.00	22.75		0.198	19.70	17.95	16.70	Back Side 10mm	0.687	0.515	0.132	0.099	0.819	0.614	0.571	0.152	0.217	1.036	1.185	0.983
		0.000	24.00	24.00	22.75		0.000	19.70	17.95	16.70	Left Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.539	0.054	0.193	0.193	0.539	0.247
		0.776	24.00	24.00	22.75		0.083	19.70	17.95	16.70	Right Edge 10mm	0.776	0.582	0.055	0.042	0.831	0.624	0.000	0.000	0.000	0.831	0.624	0.624
		0.372	24.00	24.00	22.75		0.315	19.70	17.95	16.70	Top Edge 10mm	0.372	0.279	0.211	0.158	0.583	0.437	0.309	0.485	0.130	0.713	0.746	1.052
		0.000	24.00	24.00	22.75		0.000	19.70	17.95	16.70	Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_26A+H41A	Ant.0	0.204	24.00	24.00	23.25	Ant.4	0.032	19.95	18.45	16.95	Front Side 10mm	0.204	0.172	0.023	0.016	0.227	0.188	0.562	0.112	0.199	0.426	0.750	0.499
		0.249	24.00	24.00	23.25		0.321	19.95	18.45	16.95	Back Side 10mm	0.249	0.210	0.227	0.161	0.476	0.370	0.571	0.152	0.217	0.693	0.941	0.739

		0.211	24.00	24.00	23.25		0.000	19.95	18.45	16.95	Left Edge 10mm	0.211	0.178	0.000	0.000	0.211	0.178	0.539	0.054	0.193	0.404	0.717	0.425
		0.152	24.00	24.00	23.25		0.214	19.95	18.45	16.95	Right Edge 10mm	0.152	0.128	0.152	0.107	0.304	0.235	0.000	0.000	0.000	0.304	0.235	0.235
		0.000	24.00	24.00	23.25		0.036	19.95	18.45	16.95	Top Edge 10mm	0.000	0.000	0.025	0.018	0.025	0.018	0.309	0.485	0.130	0.155	0.327	0.633
		0.204	24.00	24.00	23.25		0.000	19.95	18.45	16.95	Bottom Edge 10mm	0.204	0.172	0.000	0.000	0.204	0.172	0.000	0.000	0.000	0.204	0.172	0.172
DC_26A+H41A	Ant.1	0.419	24.00	24.00	22.75	Ant.4	0.032	19.95	18.45	16.95	Front Side 10mm	0.419	0.314	0.023	0.016	0.442	0.330	0.562	0.112	0.199	0.641	0.892	0.641
		0.687	24.00	24.00	22.75		0.321	19.95	18.45	16.95	Back Side 10mm	0.687	0.515	0.227	0.161	0.914	0.676	0.571	0.152	0.217	1.131	1.247	1.045
		0.000	24.00	24.00	22.75		0.000	19.95	18.45	16.95	Left Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.539	0.054	0.193	0.193	0.539	0.247
		0.776	24.00	24.00	22.75		0.214	19.95	18.45	16.95	Right Edge 10mm	0.776	0.582	0.152	0.107	0.928	0.689	0.000	0.000	0.000	0.928	0.689	0.689
		0.372	24.00	24.00	22.75		0.036	19.95	18.45	16.95	Top Edge 10mm	0.372	0.279	0.025	0.018	0.397	0.297	0.309	0.485	0.130	0.527	0.606	0.912
		0.000	24.00	24.00	22.75		0.000	19.95	18.45	16.95	Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_66A+H41A	Ant.0	0.463	21.50	20.00	18.50	Ant.3	0.144	19.70	17.95	16.70	Front Side 10mm	0.328	0.232	0.096	0.072	0.424	0.304	0.562	0.112	0.199	0.623	0.866	0.615
		0.431	21.50	20.00	18.50		0.198	19.70	17.95	16.70	Back Side 10mm	0.305	0.216	0.132	0.099	0.437	0.315	0.571	0.152	0.217	0.654	0.886	0.684
		0.448	21.50	20.00	18.50		0.000	19.70	17.95	16.70	Left Edge 10mm	0.317	0.225	0.000	0.000	0.317	0.225	0.539	0.054	0.193	0.510	0.764	0.472
		0.083	21.50	20.00	18.50		0.083	19.70	17.95	16.70	Right Edge 10mm	0.069	0.042	0.055	0.042	0.114	0.083	0.000	0.000	0.000	0.114	0.083	0.083
		0.000	21.50	20.00	18.50		0.315	19.70	17.95	16.70	Top Edge 10mm	0.000	0.000	0.211	0.158	0.211	0.158	0.309	0.485	0.130	0.341	0.467	0.773
		0.463	21.50	20.00	18.50		0.000	19.70	17.95	16.70	Bottom Edge 10mm	0.328	0.232	0.000	0.000	0.328	0.232	0.000	0.000	0.000	0.328	0.232	0.232
DC_66A+H41A	Ant.0	0.463	21.50	20.00	18.50	Ant.4	0.032	19.95	18.45	16.95	Front Side 10mm	0.328	0.232	0.023	0.016	0.350	0.248	0.562	0.112	0.199	0.549	0.810	0.559



		0.431	21.50	20.00	18.50		0.321	19.95	18.45	16.95	Back Side 10mm	0.305	0.216	0.227	0.161	0.532	0.377	0.571	0.152	0.217	0.749	0.948	0.746
		0.448	21.50	20.00	18.50		0.000	19.95	18.45	16.95	Left Edge 10mm	0.317	0.225	0.000	0.000	0.317	0.225	0.539	0.054	0.193	0.510	0.794	0.472
		0.083	21.50	20.00	18.50		0.214	19.95	18.45	16.95	Right Edge 10mm	0.059	0.042	0.152	0.107	0.210	0.149	0.000	0.000	0.000	0.210	0.149	0.149
		0.000	21.50	20.00	18.50		0.036	19.95	18.45	16.95	Top Edge 10mm	0.000	0.000	0.025	0.018	0.025	0.018	0.309	0.485	0.130	0.155	0.327	0.633
		0.463	21.50	20.00	18.50		0.000	19.95	18.45	16.95	Bottom Edge 10mm	0.328	0.232	0.000	0.000	0.328	0.232	0.000	0.000	0.000	0.328	0.232	0.232

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 1g SAR is 1.464 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	2024/08/19	2027/08/18
835MHz Validation Dipole	Speag	D835V2	SN: 4d187	2024/05/08	2027/05/07
1750MHz Validation Dipole	Speag	D1750V2	SN: 1130	2024/05/08	2027/05/07
1950MHz Validation Dipole	Speag	D1950V3	SN: 1240	2024/08/22	2027/08/21
2450MHz Validation Dipole	Speag	D2450V2	SN: 952	2024/05/07	2027/05/06
2600MHz Validation Dipole	Speag	D2600V2	SN: 1095	2024/05/08	2027/05/07
3500MHz Validation Dipole	Speag	D3500V2	SN: 1129	2024/07/19	2027/07/18
3700MHz Validation Dipole	Speag	D3700V2	SN: 1101	2024/07/18	2027/07/17
3900MHz Validation Dipole	Speag	D3900V2	SN: 1077	2024/07/19	2027/07/18
5GHz Validation Dipole	Speag	D5GHzV2	SN: 1200	2024/05/09	2027/05/08
Data Acquisition Electronicsr	Speag	DAE4	SN: 1711	2024/03/18	2025/03/17
E-Field Probe	Speag	EX3DV4	SN: 7510	2024/06/25	2025/06/24
Signal Generator	R&S	SMB100A	177746	2024/04/24	2025/04/23
Power Meter	R&S	NRVD-B2	835843/014	2024/08/08	2025/08/07
Power Sensor	R&S	NRV-Z4	100381	2024/08/08	2025/08/07
Power Sensor	R&S	NRV-Z2	100211	2024/08/08	2025/08/07
Wireless Communication Test Set	Anritsu	MT8820C	6201502974	2024/08/01	2025/07/31
Network Analyzer	Agilent	E5071C	MY46103472	2023/11/14	2024/11/13
Thermometer	Elitech	RC-4HC	EF720B004811	2023/11/25	2024/11/24
Thermometer	Elitech	RC-4HC	EF7216002985	2023/11/17	2024/11/16
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 (%)
2024.10.09	Head	750	21.3	0.90	41.49	0.89	41.94	1.12	-1.07
2024.10.10	Head	750	21.2	0.91	41.04	0.89	41.94	2.25	-2.15
2024.10.10	Head	835	21.5	0.88	42.18	0.90	41.50	-2.22	1.64
2024.10.12	Head	835	21.5	0.89	41.46	0.90	41.50	-1.11	-0.10
2024.10.13	Head	835	21.1	0.92	40.40	0.90	41.50	2.22	-2.65
2024.11.05	Head	835	21.3	0.88	41.29	0.90	41.50	-2.22	-0.51
2024.10.15	Head	1750	21.5	1.38	39.14	1.37	40.08	0.73	-2.35
2024.10.16	Head	1750	21.2	1.38	38.80	1.37	40.08	0.73	-3.19
2024.10.26	Head	1750	21.3	1.38	39.83	1.37	40.08	0.73	-0.62
2024.11.06	Head	1750	21.3	1.38	39.48	1.37	40.08	0.73	-1.50
2024.10.14	Head	1950	21.8	1.40	39.89	1.40	40.00	0.00	-0.28
2024.10.17	Head	1950	21.2	1.44	38.69	1.40	40.00	2.86	-3.28
2024.10.18	Head	1950	21.3	1.45	39.62	1.40	40.00	3.57	-0.95
2024.10.19	Head	2450	21.4	1.83	39.95	1.80	39.20	1.67	1.91
2024.10.20	Head	2450	21.3	1.85	38.66	1.80	39.20	2.78	-1.38
2024.10.21	Head	2600	21.2	1.95	38.05	1.96	39.01	-0.51	-2.46
2024.10.22	Head	2600	21.3	1.97	38.78	1.96	39.01	0.51	-0.59
2024.10.23	Head	2600	21.5	2.01	39.30	1.96	39.01	2.55	0.74
2024.10.24	Head	2600	21.5	1.97	39.49	1.96	39.01	0.51	1.23
2024.10.25	Head	2600	21.4	1.98	38.56	1.96	39.01	1.02	-1.15
2024.10.26	Head	2600	21.4	1.97	39.37	1.96	39.01	0.51	0.92
2024.10.27	Head	2600	21.2	1.95	38.04	1.96	39.01	-0.51	-2.49
2024.10.28	Head	2600	21.1	2.02	37.75	1.96	39.01	3.06	-3.23
2024.10.29	Head	2600	21.2	2.02	38.76	1.96	39.01	3.06	-0.64
2024.10.30	Head	2600	21.2	1.97	37.82	1.96	39.01	0.51	-3.05
2024.10.31	Head	2600	21.6	1.97	38.87	1.96	39.01	0.51	-0.36
2024.11.01	Head	2600	21.6	1.97	38.45	1.96	39.01	0.51	-1.44
2024.11.11	Head	2600	21.2	2.01	38.89	1.96	39.01	2.55	-0.31
2024.11.12	Head	2600	21.1	1.96	38.09	1.96	39.01	0.00	-2.36
2024.11.02	Head	5250	21.4	4.70	35.90	4.71	35.93	-0.21	-0.08
2024.11.03	Head	5600	21.3	5.05	34.69	5.07	35.53	-0.39	-2.36
2024.11.04	Head	5750	21.6	5.21	34.65	5.22	35.36	-0.19	-2.01

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 (%)
2024.10.09	Head	750	100	0.85	8.54	8.46	0.95
2024.10.10	Head	750	100	0.86	8.61	8.46	1.77
2024.10.10	Head	835	100	0.98	9.75	9.74	0.10
2024.10.12	Head	835	100	0.97	9.71	9.74	-0.31
2024.10.13	Head	835	100	0.98	9.75	9.74	0.10
2024.11.05	Head	835	100	0.98	9.82	9.74	0.82
2024.10.15	Head	1750	100	3.65	36.50	37.00	-1.35
2024.10.16	Head	1750	100	3.75	37.50	37.00	1.35
2024.10.26	Head	1750	100	3.68	36.80	37.00	-0.54
2024.11.06	Head	1750	100	3.71	37.10	37.00	0.27
2024.10.14	Head	1950	100	4.21	42.10	41.70	0.96
2024.10.17	Head	1950	100	4.15	41.50	41.70	-0.48
2024.10.18	Head	1950	100	4.19	41.90	41.70	0.48
2024.10.19	Head	2450	100	5.27	52.70	52.60	0.19
2024.10.20	Head	2450	100	5.31	53.10	52.60	0.95
2024.10.21	Head	2600	100	5.57	55.70	55.90	-0.36
2024.10.22	Head	2600	100	5.61	56.10	55.90	0.36
2024.10.23	Head	2600	100	5.48	54.80	55.90	-1.97
2024.10.24	Head	2600	100	5.56	55.60	55.90	-0.54
2024.10.25	Head	2600	100	5.68	56.80	55.90	1.61
2024.10.26	Head	2600	100	5.64	56.40	55.90	0.89
2024.10.27	Head	2600	100	5.71	57.10	55.90	2.15
2024.10.28	Head	2600	100	5.68	56.80	55.90	1.61
2024.10.29	Head	2600	100	5.58	55.80	55.90	-0.18
2024.10.30	Head	2600	100	5.62	56.20	55.90	0.54
2024.10.31	Head	2600	100	5.47	54.70	55.90	-2.15
2024.11.01	Head	2600	100	5.54	55.40	55.90	-0.89
2024.11.11	Head	2600	100	5.620	56.20	55.90	0.54
2024.11.12	Head	2600	100	5.58	55.80	55.90	-0.18
2024.11.02	Head	5250	100	7.82	78.20	77.70	0.64
2024.11.03	Head	5600	100	8.19	81.90	81.30	0.74
2024.11.04	Head	5750	100	7.82	78.20	77.60	0.77

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 (%)
2024.10.19	Head	2450	100	2.49	24.90	24.70	0.81
2024.10.20	Head	2450	100	2.52	25.20	24.70	2.02
2024.10.30	Head	2600	100	2.52	25.20	25.40	-0.79
2024.11.02	Head	5250	100	2.21	22.10	22.00	0.45
2024.11.03	Head	5600	100	2.37	23.70	23.10	2.60
2024.11.04	Head	5750	100	2.28	22.80	21.90	4.11

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

# System Performance Check Data (750MHz)

### 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	10.29	0.899	41.5	22.3	21.3

### Hardware Setup

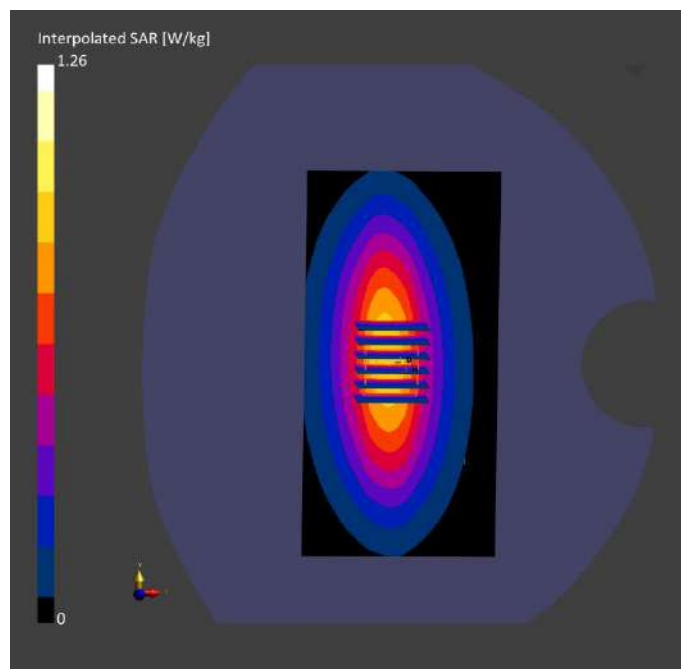
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-09	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

### 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	2024-10-09	2024-10-09
psSAR1g [W/kg]	0.842	0.854
psSAR10g [W/kg]	0.545	0.559
Power Drift [dB]	0.04	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		86.3
Dist 3dB Peak [mm]		20.2



# System Performance Check Data (750MHz)

### 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	10.29	0.911	41.0	22.4	21.2

### Hardware Setup

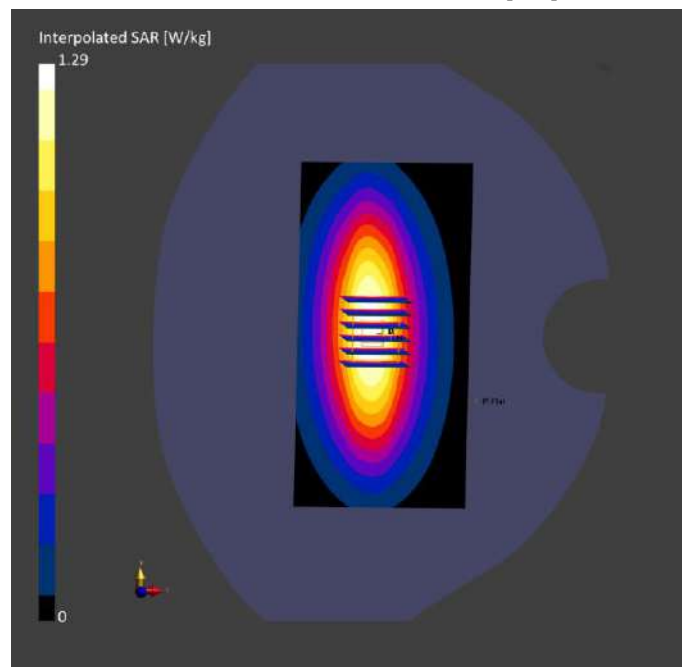
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-10	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

### 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	2024-10-10	2024-10-10
psSAR1g [W/kg]	0.855	0.861
psSAR10g [W/kg]	0.558	0.565
Power Drift [dB]	-0.03	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		86.1
Dist 3dB Peak [mm]		20.3



# System Performance Check Data (835MHz)

### 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	9.99	0.882	41.3	22.5	21.3

### Hardware Setup

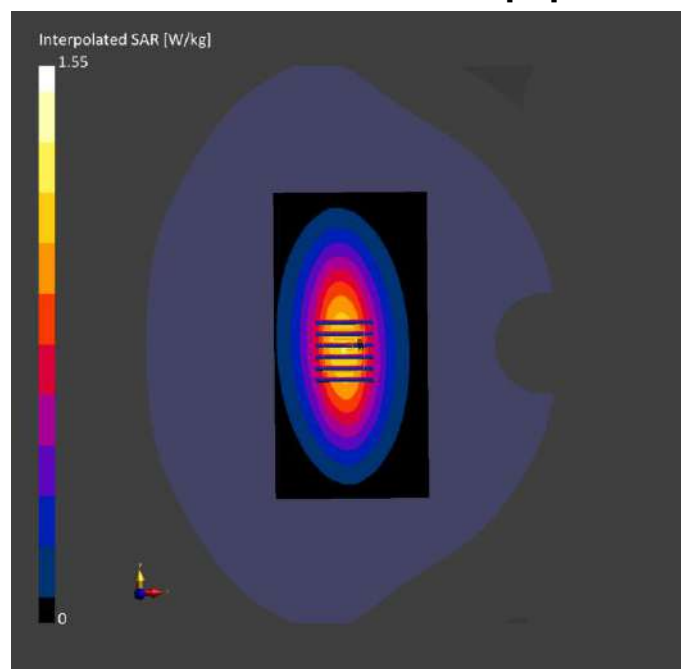
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-11-05	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

### 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	2024-11-05	2024-11-05
psSAR1g [W/kg]	0.936	0.982
psSAR10g [W/kg]	0.628	0.646
Power Drift [dB]	0.05	0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.7
Dist 3dB Peak [mm]		12.2





# System Performance Check Data (835MHz)

### 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	9.99	0.884	42.2	22.6	21.5

### Hardware Setup

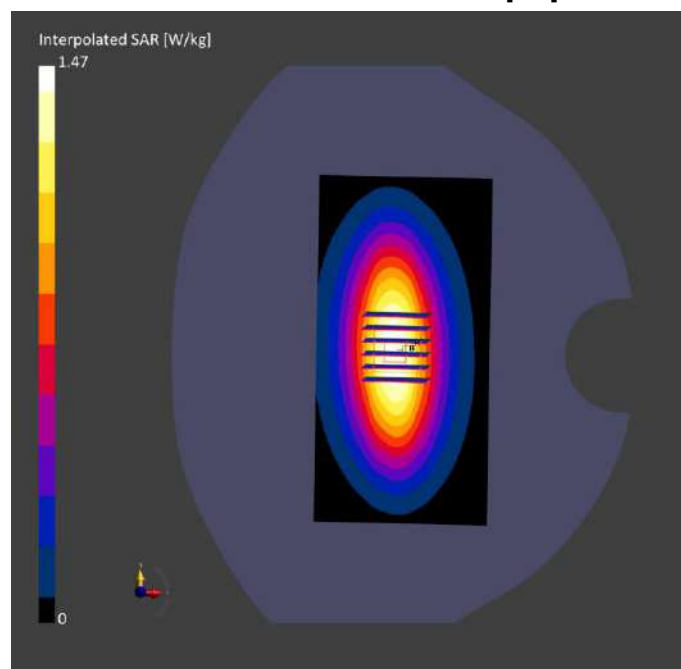
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-10	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

### 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	2024-10-10	2024-10-10
psSAR1g [W/kg]	0.963	0.975
psSAR10g [W/kg]	0.622	0.642
Power Drift [dB]	-0.03	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		84.1
Dist 3dB Peak [mm]		13.2



# System Performance Check Data (835MHz)

### 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	9.99	0.894	41.5	22.4	21.5

### Hardware Setup

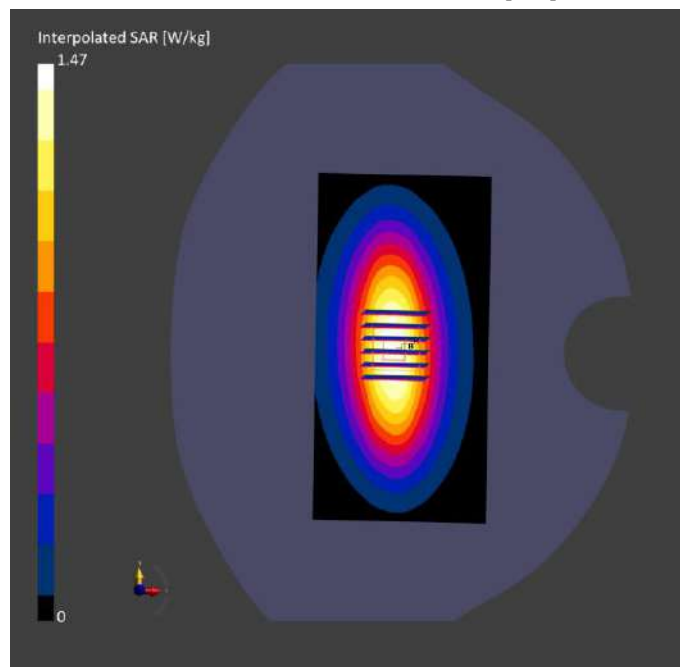
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-12	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

### 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	2024-10-12	2024-10-12
psSAR1g [W/kg]	0.959	0.971
psSAR10g [W/kg]	0.638	0.638
Power Drift [dB]	-0.02	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		84.7
Dist 3dB Peak [mm]		13.1



# System Performance Check Data (835MHz)

### 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	9.99	0.917	40.4	22.3	21.1

### Hardware Setup

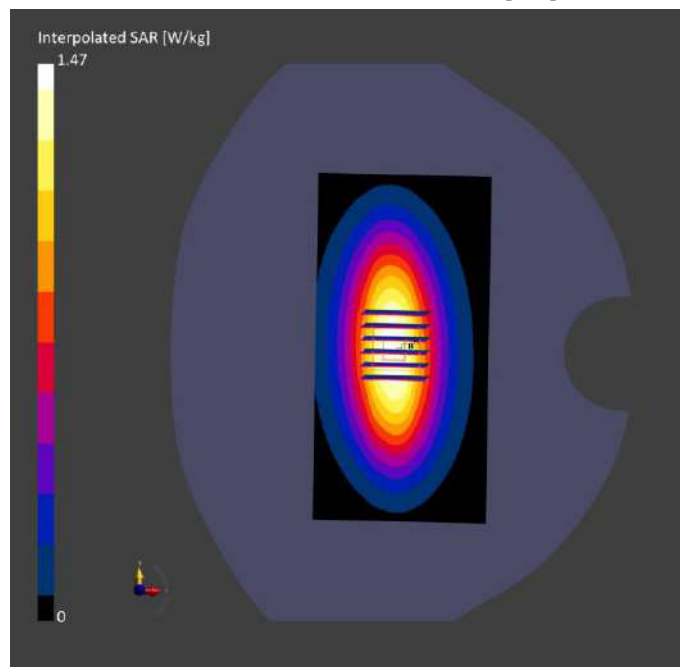
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-13	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

### 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	2024-10-13	2024-10-13
psSAR1g [W/kg]	0.963	0.975
psSAR10g [W/kg]	0.622	0.642
Power Drift [dB]	-0.03	-0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		84.1
Dist 3dB Peak [mm]		13.2



# System Performance Check Data (1750MHz)

### 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	8.67	1.38	39.5	22.4	21.3

### Hardware Setup

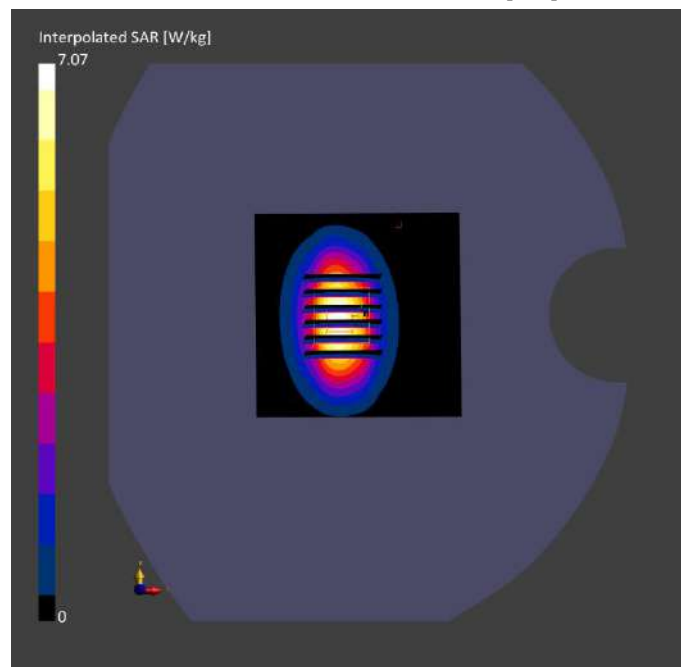
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-11-06	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

### 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	2024-11-06	2024-11-06
psSAR1g [W/kg]	3.39	3.71
psSAR10g [W/kg]	1.85	1.97
Power Drift [dB]	0.03	0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		82.2
Dist 3dB Peak [mm]		9.5



# System Performance Check Data (1750MHz)

### 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	8.67	1.38	39.1	22.6	21.5

### Hardware Setup

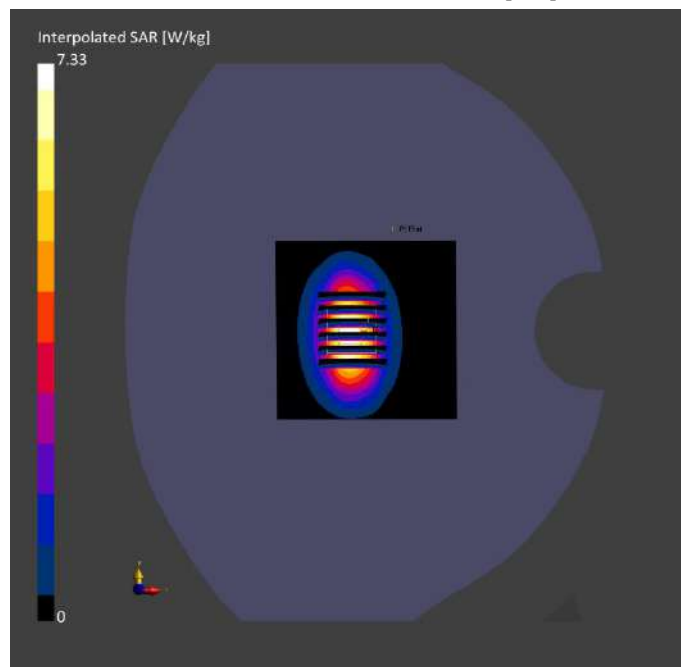
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-15	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

### 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	2024-10-15	2024-10-15
psSAR1g [W/kg]	3.57	3.65
psSAR10g [W/kg]	1.79	1.94
Power Drift [dB]	-0.03	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		82.7
Dist 3dB Peak [mm]		9.2



# System Performance Check Data (1750MHz)

### 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	8.67	1.38	38.8	22.4	21.2

### Hardware Setup

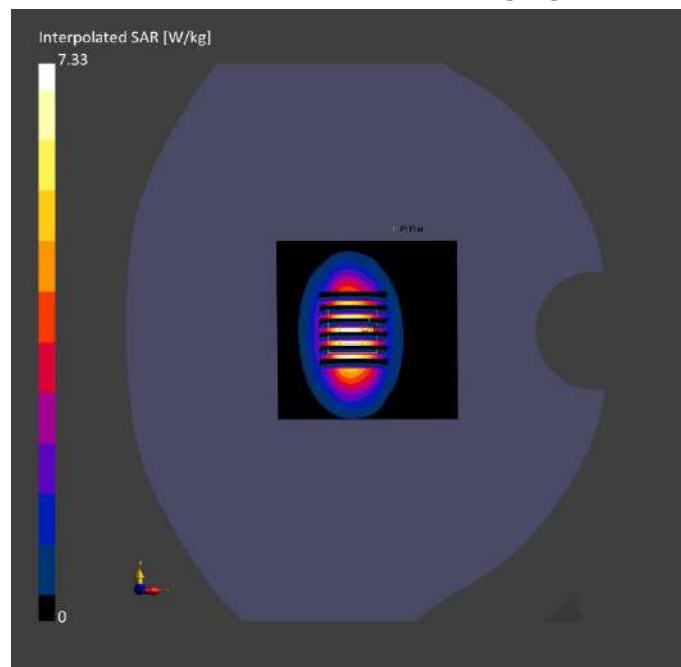
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-16	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

### 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	2024-10-16	2024-10-16
psSAR1g [W/kg]	3.63	3.75
psSAR10g [W/kg]	1.81	1.98
Power Drift [dB]	-0.05	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		82.6
Dist 3dB Peak [mm]		9.1



# System Performance Check Data (1750MHz)

### 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	8.67	1.38	39.8	22.3	21.3

### Hardware Setup

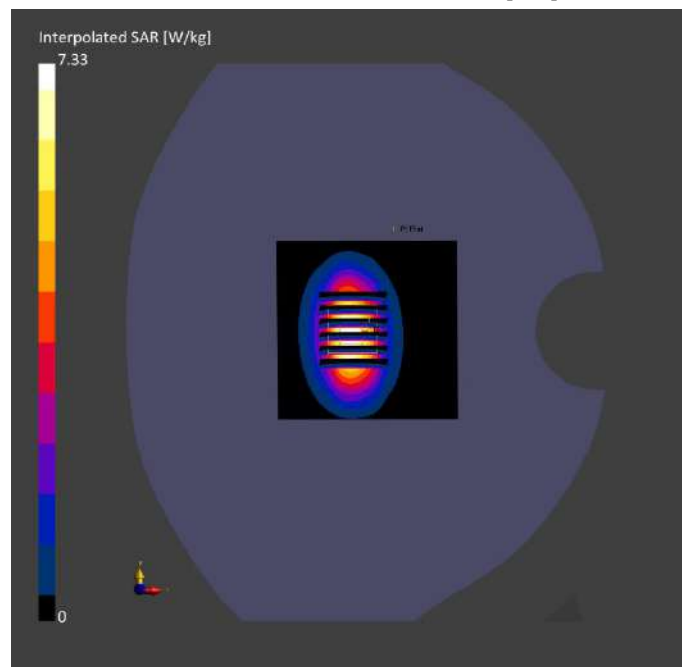
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-26	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

### 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	2024-10-26	2024-10-26
psSAR1g [W/kg]	3.57	3.68
psSAR10g [W/kg]	1.79	1.96
Power Drift [dB]	-0.09	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		82.6
Dist 3dB Peak [mm]		9.2



# System Performance Check Data (1950MHz)

### 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	8.33	1.40	39.9	22.6	21.8

### Hardware Setup

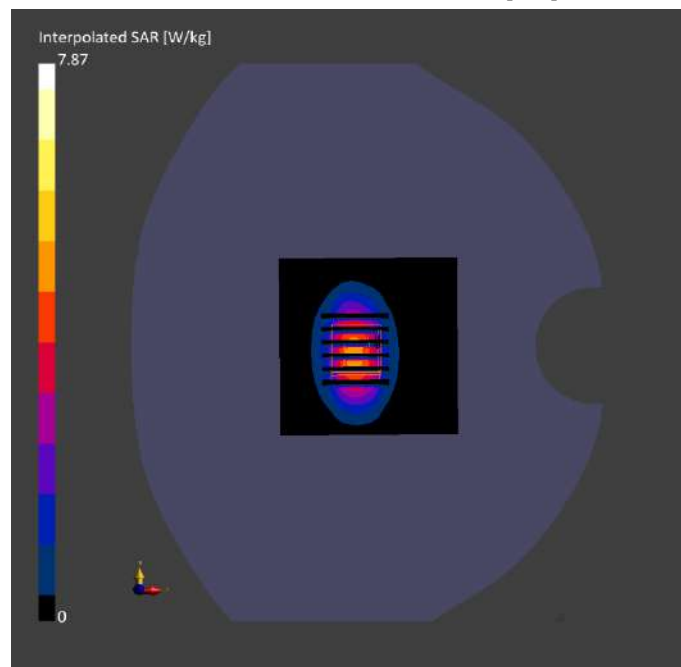
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-14	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

### 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	2024-10-14	2024-10-14
psSAR1g [W/kg]	4.20	4.21
psSAR10g [W/kg]	2.15	2.21
Power Drift [dB]	0.05	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.6
Dist 3dB Peak [mm]		9.7





# System Performance Check Data (1950MHz)

### 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	8.33	1.44	38.7	22.1	21.2

### Hardware Setup

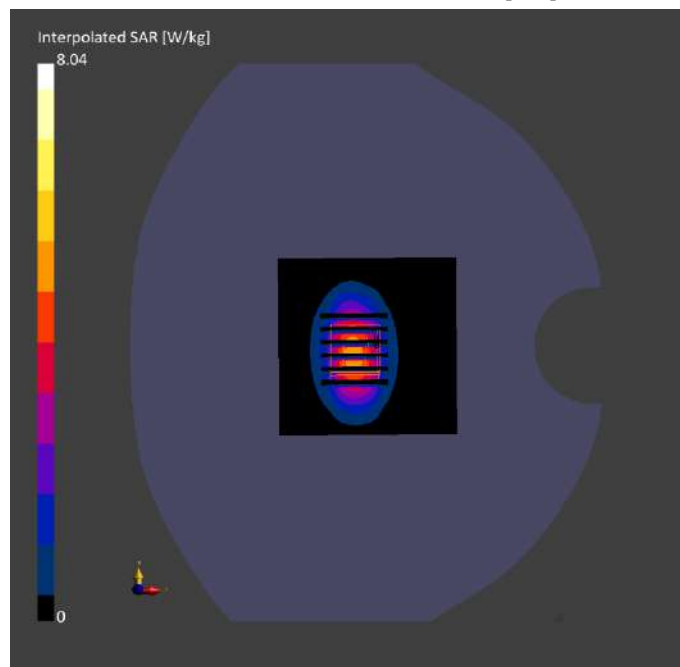
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-17	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

### 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	2024-10-17	2024-10-17
psSAR1g [W/kg]	3.88	4.15
psSAR10g [W/kg]	1.92	2.13
Power Drift [dB]	0.01	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.7
Dist 3dB Peak [mm]		9.4



# System Performance Check Data (1950MHz)

### 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	8.33	1.45	39.6	22.4	21.3

### Hardware Setup

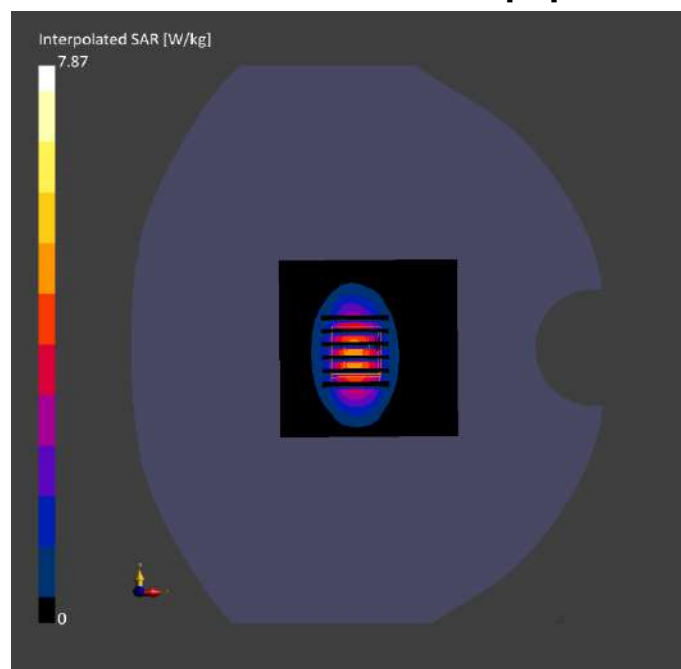
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-18	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

### 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	2024-10-18	2024-10-18
psSAR1g [W/kg]	4.23	4.19
psSAR10g [W/kg]	2.11	2.17
Power Drift [dB]	0.05	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.6
Dist 3dB Peak [mm]		9.7



# System Performance Check Data (2450MHz)

### 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, 2450	7.75	1.83	39.9	22.5	21.4

### Hardware Setup

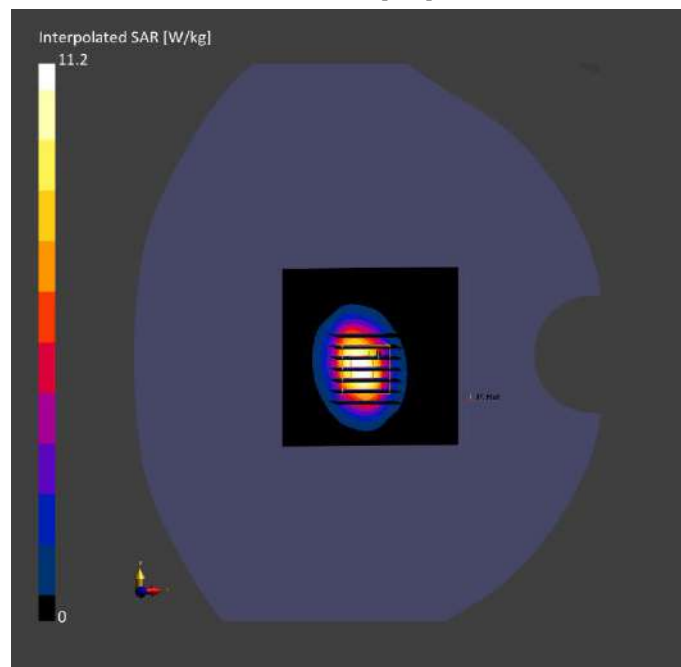
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-19	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

### 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	2024-10-19	2024-10-19
psSAR1g [W/kg]	5.22	5.27
psSAR10g [W/kg]	2.41	2.49
Power Drift [dB]	-0.06	-0.08
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.2
Dist 3dB Peak [mm]		8.9



# System Performance Check Data (2450MHz)

### 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, 2450	7.75	1.85	38.7	22.6	21.3

### Hardware Setup

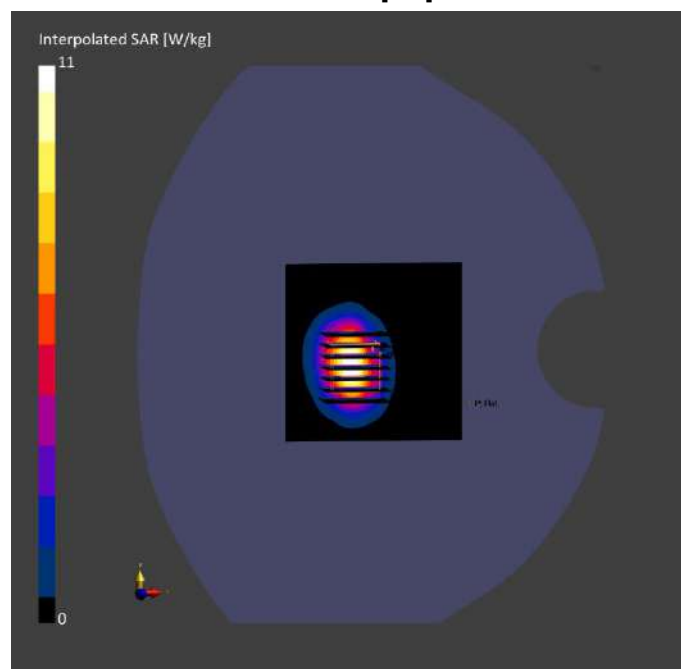
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-20	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

### 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	2024-10-20	2024-10-20
psSAR1g [W/kg]	5.28	5.31
psSAR10g [W/kg]	2.47	2.52
Power Drift [dB]	-0.02	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.5
Dist 3dB Peak [mm]		9.2



# System Performance Check Data (2600MHz)

### 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	CW, 0--	2600.0, 50	7.59	1.95	38.1	22.4	21.2

### Hardware Setup

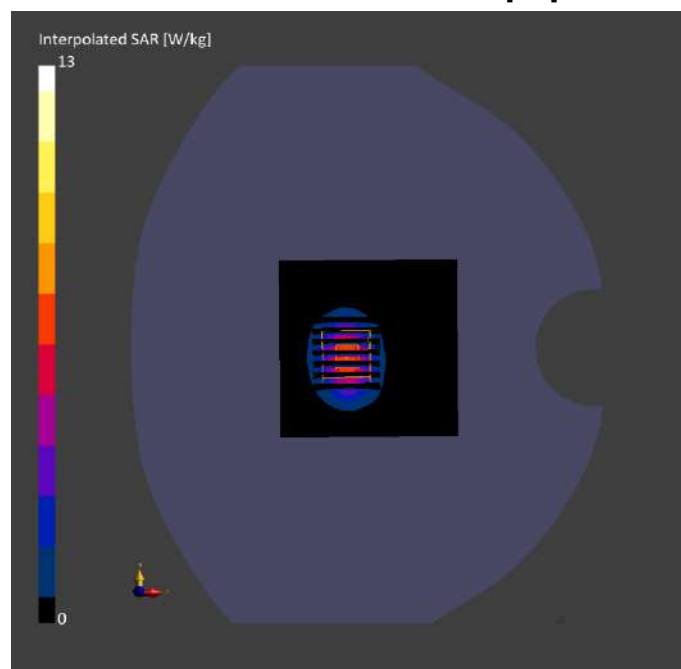
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-21	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

### 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	2024-10-21	2024-10-21
psSAR1g [W/kg]	5.39	5.57
psSAR10g [W/kg]	2.48	2.51
Power Drift [dB]	0.04	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		79.5
Dist 3dB Peak [mm]		8.9



# System Performance Check Data (2600MHz)

### 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	CW, 0--	2600.0, 50	7.59	1.97	38.8	22.4	21.3

### Hardware Setup

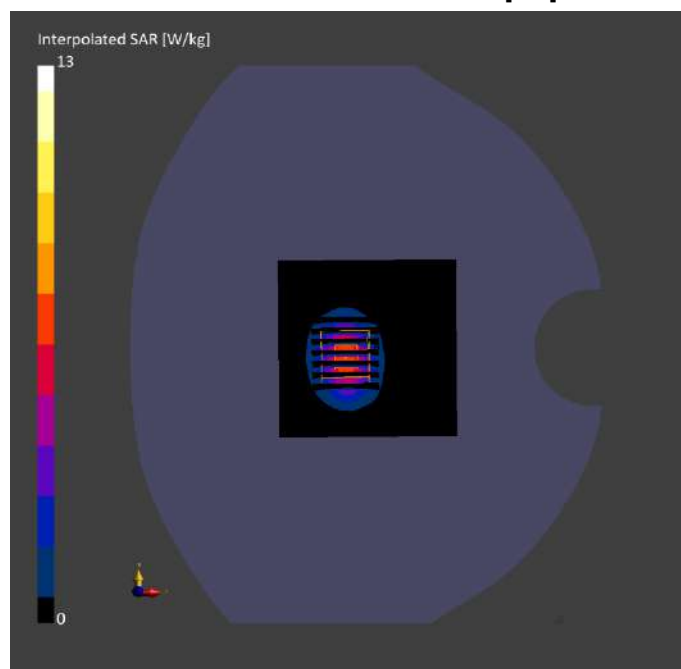
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-22	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

### 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	2024-10-22	2024-10-22
psSAR1g [W/kg]	5.38	5.61
psSAR10g [W/kg]	2.41	2.53
Power Drift [dB]	0.02	0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		79.4
Dist 3dB Peak [mm]		8.8



# System Performance Check Data (2600MHz)

### 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	CW, 0--	2600.0, 50	7.59	2.01	39.3	22.6	21.5

### Hardware Setup

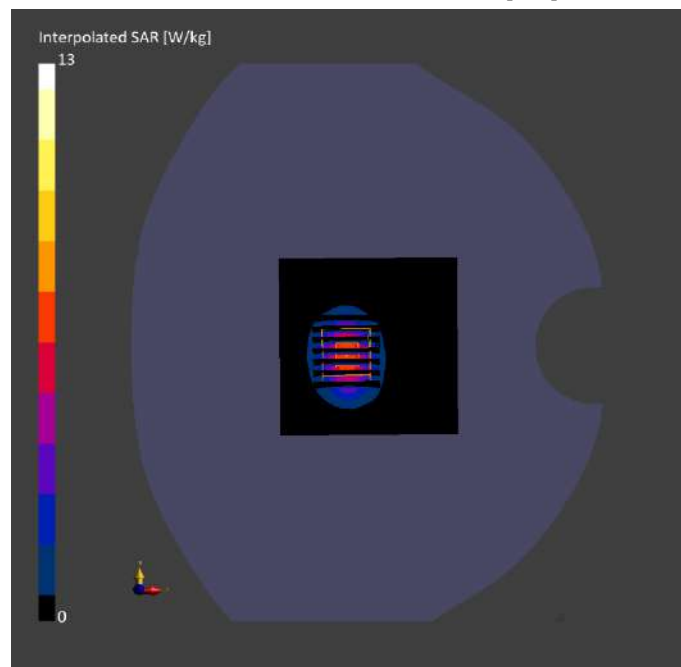
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-23	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

### 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	2024-10-23	2024-10-23
psSAR1g [W/kg]	5.18	5.48
psSAR10g [W/kg]	2.32	2.46
Power Drift [dB]	0.01	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		79.6
Dist 3dB Peak [mm]		8.7



# System Performance Check Data (2600MHz)

### 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	CW, 0--	2600.0, 50	7.59	1.97	39.5	22.6	21.5

### Hardware Setup

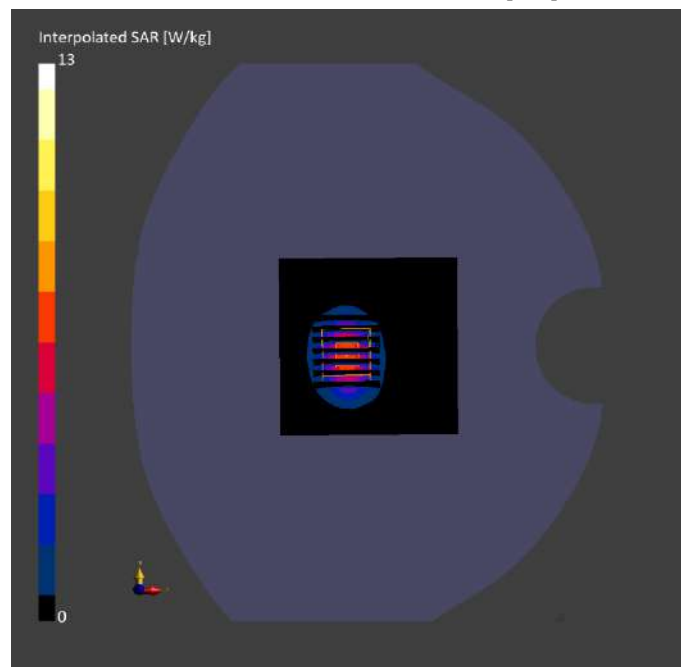
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-24	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

### 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	2024-10-24	2024-10-24
psSAR1g [W/kg]	5.32	5.56
psSAR10g [W/kg]	2.34	2.48
Power Drift [dB]	-0.02	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		79.5
Dist 3dB Peak [mm]		8.4





# System Performance Check Data (2600MHz)

### 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	CW, 0--	2600.0, 50	7.59	1.98	38.6	22.4	21.4

### Hardware Setup

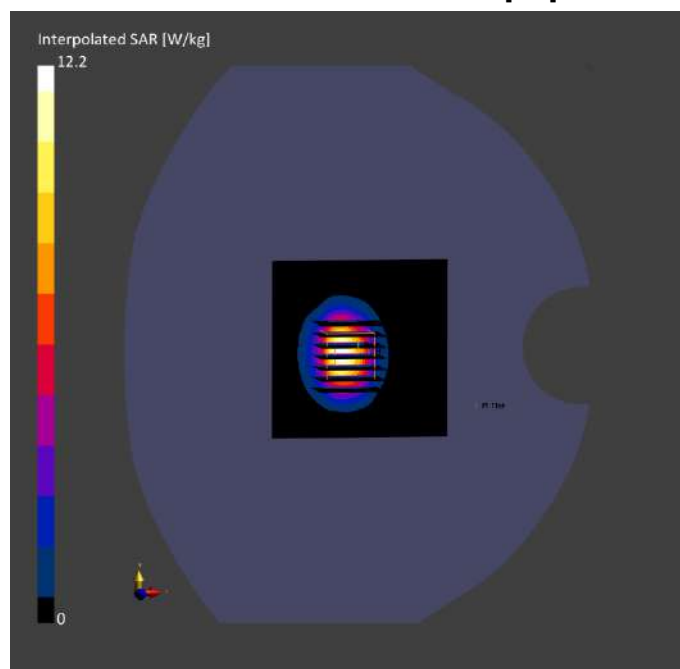
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-25	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

### 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	2024-10-25	2024-10-25
psSAR1g [W/kg]	5.58	5.68
psSAR10g [W/kg]	2.43	2.56
Power Drift [dB]	-0.04	-0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		79.7
Dist 3dB Peak [mm]		8.9



# System Performance Check Data (2600MHz)

### 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	CW, 0--	2600.0, 50	7.59	1.97	39.4	22.5	21.4

### Hardware Setup

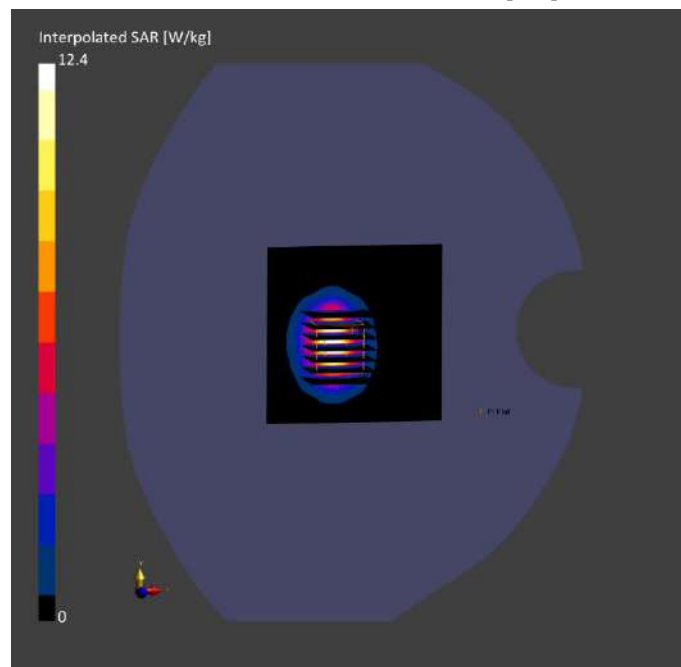
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-26	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

### 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	2024-10-26	2024-10-26
psSAR1g [W/kg]	5.55	5.64
psSAR10g [W/kg]	2.43	2.55
Power Drift [dB]	0.05	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		79.5
Dist 3dB Peak [mm]		8.2



# System Performance Check Data (2600MHz)

### 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	CW, 0--	2600.0, 50	7.59	1.95	38.0	22.3	21.2

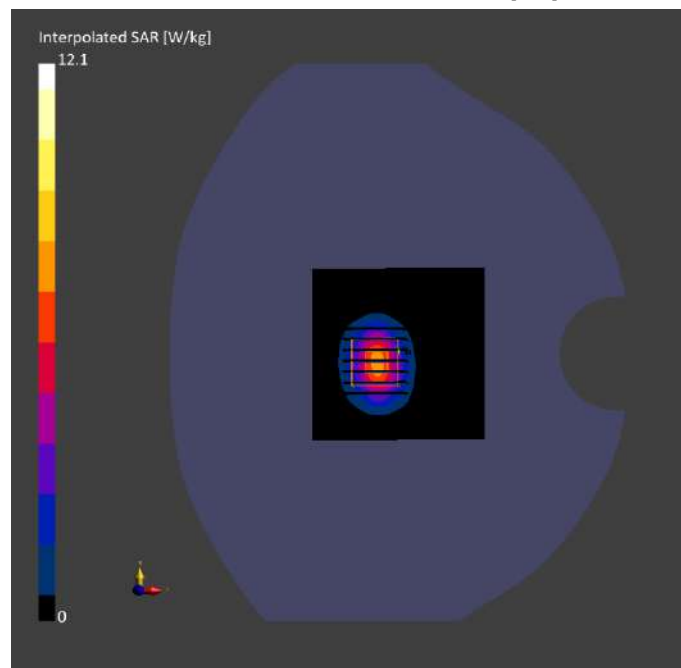
### Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-27	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

### Scan Setup

### Measurement Results

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	30.0 x 30.0 x 30.0	Date	2024-10-27	2024-10-27
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5	psSAR1g [W/kg]	5.39	5.71
Sensor Surface [mm]	3.0	1.4	psSAR10g [W/kg]	2.37	2.58
Graded Grid	Yes	Yes	Power Drift [dB]	0.02	0.03
Grading Ratio	1.5	1.5	Power Scaling	Disabled	Disabled
MAIA	N/A	N/A	Scaling Factor [dB]		
Surface Detection	VMS + 6p	VMS + 6p	TSL Correction	No correction	No correction
Scan Method	Measured	Measured	M2/M1 [%]		80.8
			Dist 3dB Peak [mm]		9.5



# System Performance Check Data (2600MHz)

### 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	CW, 0--	2600.0, 50	7.59	2.02	37.7	22.1	21.1

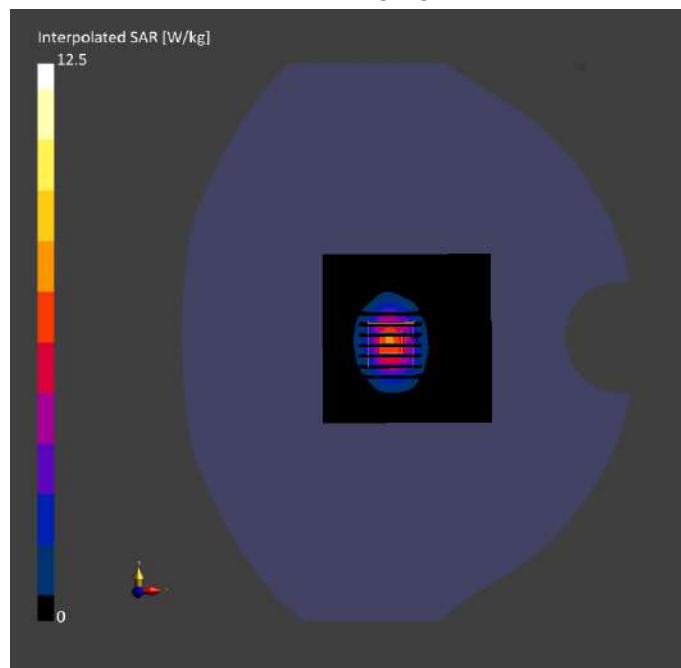
### Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-28	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

### Scan Setup

### Measurement Results

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	30.0 x 30.0 x 30.0	Date	2024-10-28	2024-10-28
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5	psSAR1g [W/kg]	5.62	5.68
Sensor Surface [mm]	3.0	1.4	psSAR10g [W/kg]	2.43	2.56
Graded Grid	Yes	Yes	Power Drift [dB]	0.01	-0.05
Grading Ratio	1.5	1.5	Power Scaling	Disabled	Disabled
MAIA	N/A	N/A	Scaling Factor [dB]		
Surface Detection	VMS + 6p	VMS + 6p	TSL Correction	No correction	No correction
Scan Method	Measured	Measured	M2/M1 [%]		79.8
			Dist 3dB Peak [mm]		9.1



# System Performance Check Data (2600MHz)

### 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	CW, 0--	2600.0, 50	7.59	2.02	38.8	22.4	21.2

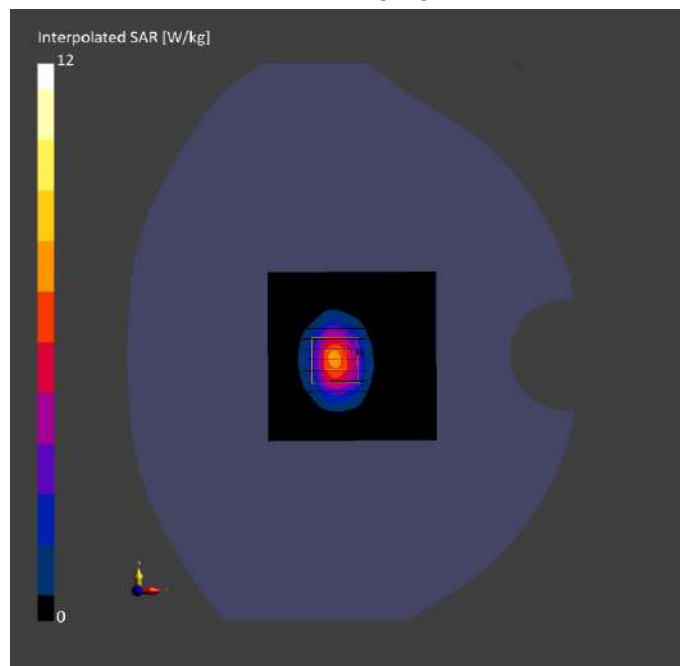
### Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-29	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

### Scan Setup

### Measurement Results

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	30.0 x 30.0 x 30.0	Date	2024-10-29	2024-10-29
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5	psSAR1g [W/kg]	5.51	5.58
Sensor Surface [mm]	3.0	1.4	psSAR10g [W/kg]	2.39	2.50
Graded Grid	Yes	Yes	Power Drift [dB]	0.06	0.04
Grading Ratio	1.5	1.5	Power Scaling	Disabled	Disabled
MAIA	N/A	N/A	Scaling Factor [dB]		
Surface Detection	VMS + 6p	VMS + 6p	TSL Correction	No correction	No correction
Scan Method	Measured	Measured	M2/M1 [%]		80.9
			Dist 3dB Peak [mm]		9.3



# System Performance Check Data (2600MHz)

### 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	CW, 0--	2600.0, 50	7.59	1.97	37.8	22.4	21.2

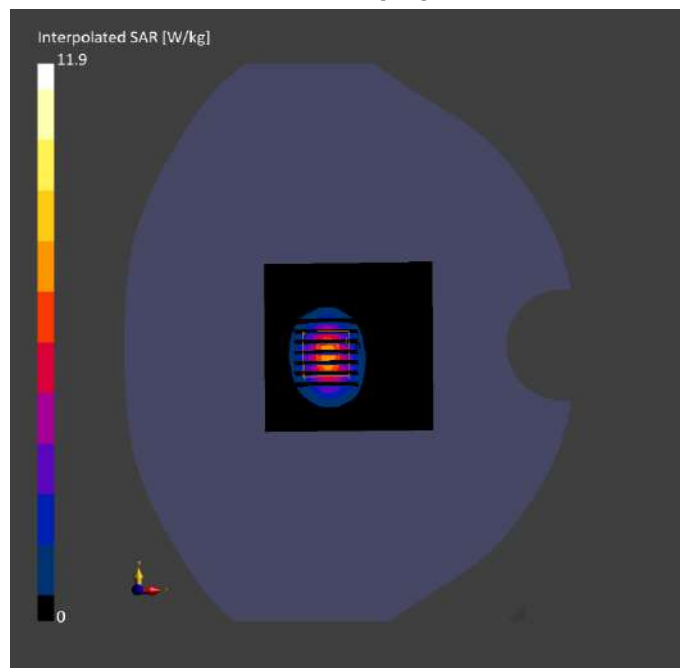
### Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-30	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

### Scan Setup

### Measurement Results

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	30.0 x 30.0 x 30.0	Date	2024-10-30	2024-10-30
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5	psSAR1g [W/kg]	5.38	5.62
Sensor Surface [mm]	3.0	1.4	psSAR10g [W/kg]	2.42	2.52
Graded Grid	Yes	Yes	Power Drift [dB]	0.00	-0.01
Grading Ratio	1.5	1.5	Power Scaling	Disabled	Disabled
MAIA	N/A	N/A	Scaling Factor [dB]		
Surface Detection	VMS + 6p	VMS + 6p	TSL Correction	No correction	No correction
Scan Method	Measured	Measured	M2/M1 [%]		81.2
			Dist 3dB Peak [mm]		9.3



# System Performance Check Data (2600MHz)

### 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	CW, 0--	2600.0, 50	7.59	1.97	38.9	22.8	21.6

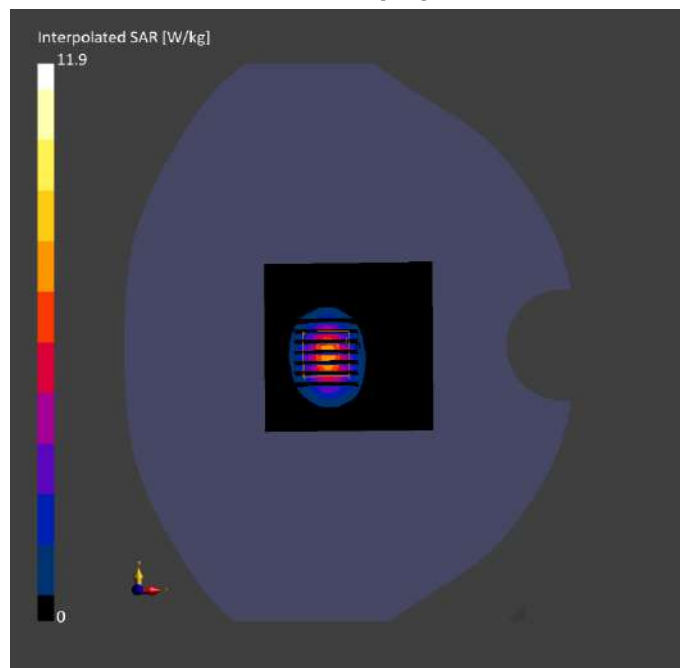
### Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-31	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

### Scan Setup

### Measurement Results

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	30.0 x 30.0 x 30.0	Date	2024-10-31	2024-10-31
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5	psSAR1g [W/kg]	5.41	5.47
Sensor Surface [mm]	3.0	1.4	psSAR10g [W/kg]	2.39	2.48
Graded Grid	Yes	Yes	Power Drift [dB]	0.02	0.05
Grading Ratio	1.5	1.5	Power Scaling	Disabled	Disabled
MAIA	N/A	N/A	Scaling Factor [dB]		
Surface Detection	VMS + 6p	VMS + 6p	TSL Correction	No correction	No correction
Scan Method	Measured	Measured	M2/M1 [%]		81.5
			Dist 3dB Peak [mm]		8.9



# System Performance Check Data (2600MHz)

### 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	CW, 0--	2600.0, 50	7.59	1.97	38.4	22.4	21.6

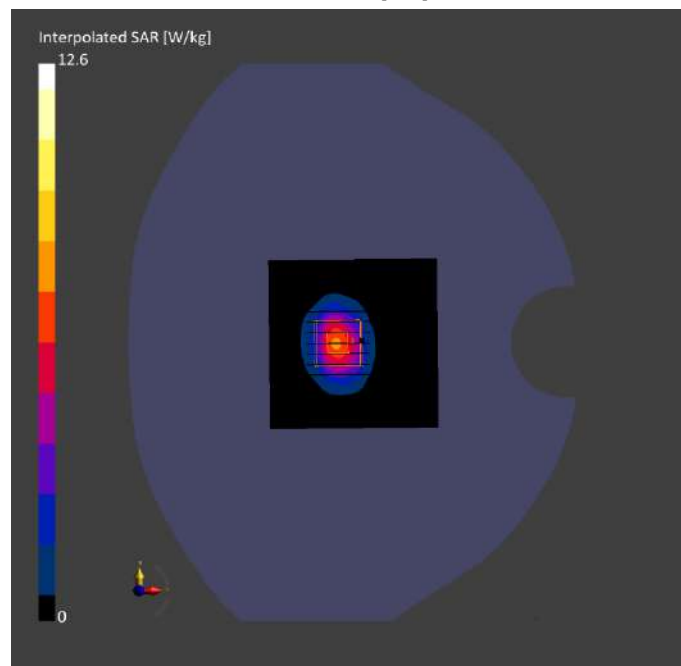
### Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-11-01	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

### Scan Setup

### Measurement Results

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	30.0 x 30.0 x 30.0	Date	2024-11-01	2024-11-01
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5	psSAR1g [W/kg]	5.48	5.54
Sensor Surface [mm]	3.0	1.4	psSAR10g [W/kg]	2.39	2.53
Graded Grid	Yes	Yes	Power Drift [dB]	0.03	0.08
Grading Ratio	1.5	1.5	Power Scaling	Disabled	Disabled
MAIA	N/A	N/A	Scaling Factor [dB]		
Surface Detection	VMS + 6p	VMS + 6p	TSL Correction	No correction	No correction
Scan Method	Measured	Measured	M2/M1 [%]		79.9
			Dist 3dB Peak [mm]		9.1





# System Performance Check Data (2600MHz)

### Exposure Conditions

Phantom Section	Position, Test	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	Distance [mm]	CD2600	CW, 0--	2600.0, 50	7.59	2.01	38.9	22.5	21.2

### Hardware Setup

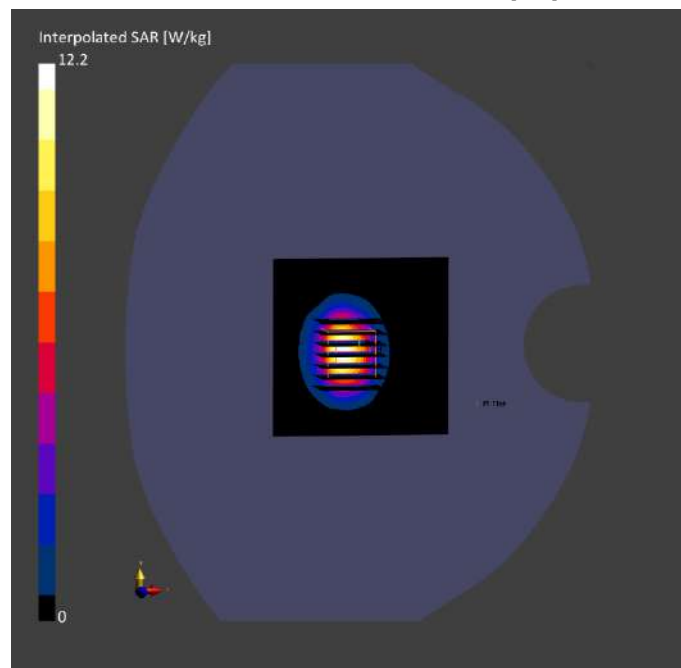
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-11-11	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

### 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	2024-11-11	2024-11-11
psSAR1g [W/kg]	5.59	5.62
psSAR10g [W/kg]	2.44	2.57
Power Drift [dB]	0.03	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		80.4
Dist 3dB Peak [mm]		9.1



# System Performance Check Data (2600MHz)

### 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	CW, 0--	2600.0, 50	7.59	1.96	38.1	22.3	21.1

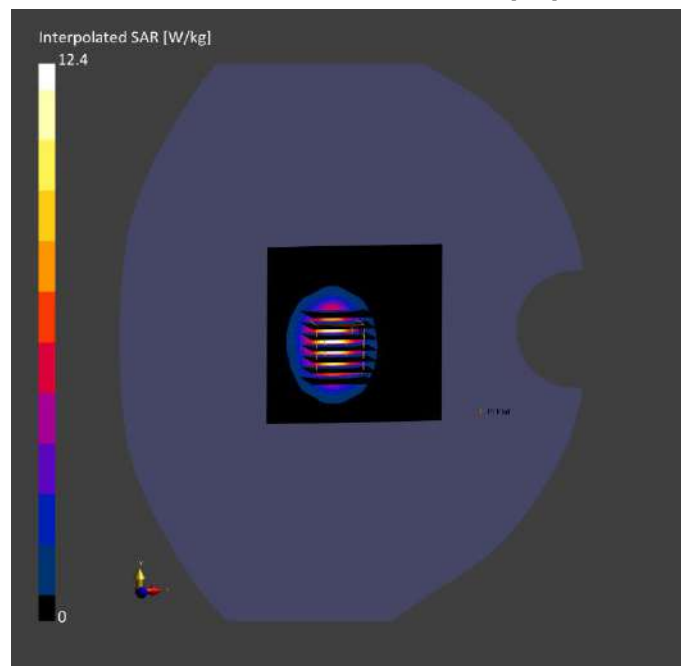
### Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-11-12	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

### Scan Setup

### Measurement Results

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	30.0 x 30.0 x 30.0	Date	2024-11-12	2024-11-12
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5	psSAR1g [W/kg]	5.51	5.58
Sensor Surface [mm]	3.0	1.4	psSAR10g [W/kg]	2.42	2.54
Graded Grid	Yes	Yes	Power Drift [dB]	0.01	0.03
Grading Ratio	1.5	1.5	Power Scaling	Disabled	Disabled
MAIA	N/A	N/A	Scaling Factor [dB]		
Surface Detection	VMS + 6p	VMS + 6p	TSL Correction	No correction	No correction
Scan Method	Measured	Measured	M2/M1 [%]		81.3
			Dist 3dB Peak [mm]		8.8



# System Performance Check Data (5250MHz)

### Exposure Conditions

Phantom Section	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		D5GHz	CW, 0--	5250.0, 5250	5.74	4.70	35.9	22.7	21.4

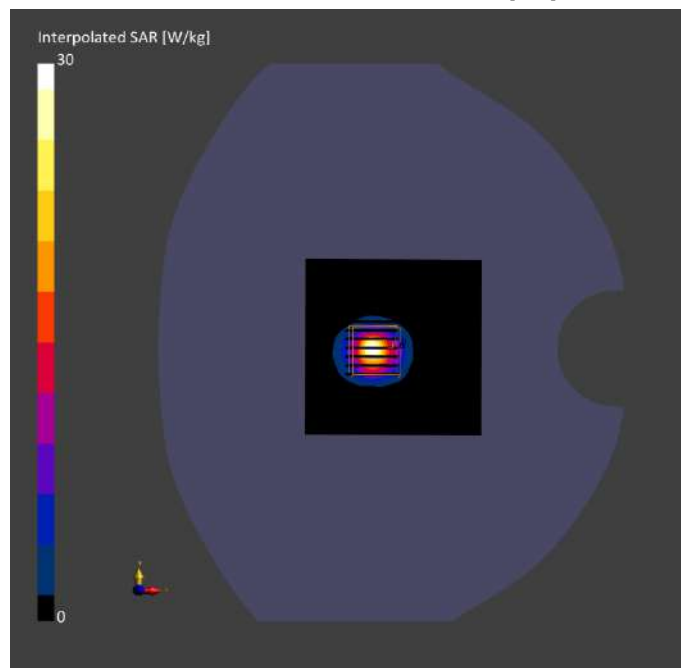
### Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-11-02	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

### Scan Setup

### Measurement Results

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	22.0 x 22.0 x 22.0	Date	2024-11-02	2024-11-02
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4	psSAR1g [W/kg]	7.55	7.82
Sensor Surface [mm]	3.0	1.4	psSAR10g [W/kg]	2.06	2.21
Graded Grid	Yes	Yes	Power Drift [dB]	0.01	0.05
Grading Ratio	1.5	1.4	Power Scaling	Disabled	Disabled
MAIA	N/A	N/A	Scaling Factor [dB]		
Surface Detection	VMS + 6p	VMS + 6p	TSL Correction	No correction	No correction
Scan Method	Measured	Measured	M2/M1 [%]		65.8
			Dist 3dB Peak [mm]		7.9



# System Performance Check Data (5600MHz)

### 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		Validation band	CW, 0--	5600.0, 5600	5.00	5.05	34.7	22.4	21.3

### Hardware Setup

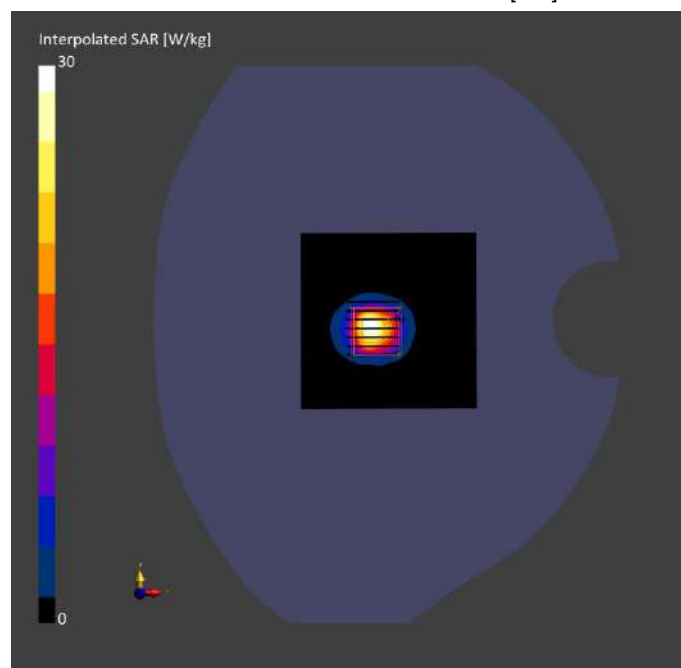
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-11-03	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

### 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	2024-11-03	2024-11-03
psSAR1g [W/kg]	8.03	8.19
psSAR10g [W/kg]	2.24	2.37
Power Drift [dB]	-0.02	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		64.9
Dist 3dB Peak [mm]		6.8



# System Performance Check Data (5750MHz)

### Exposure Conditions

Phantom Section	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		Validation band	CW, 0--	5750.0, 5750	5.04	5.21	34.7	22.8	21.6

### Hardware Setup

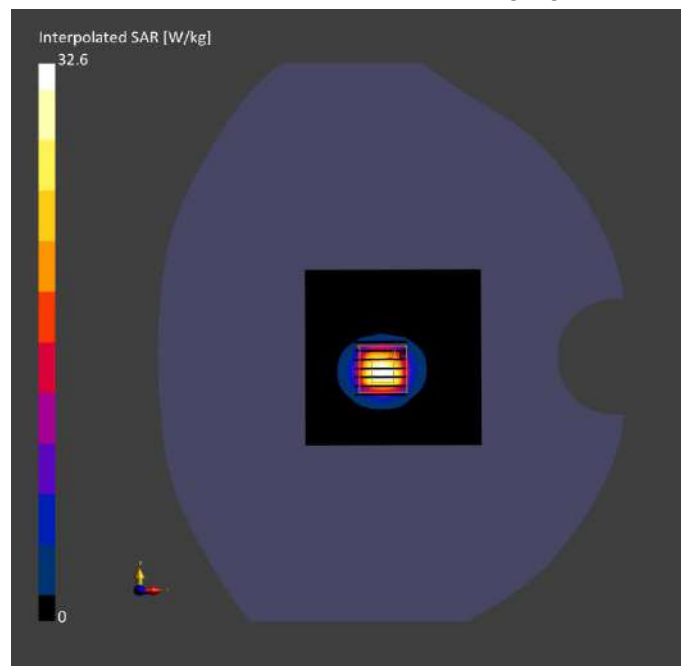
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-11-04	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

### 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	2024-11-04	2024-11-04
psSAR1g [W/kg]	7.68	7.82
psSAR10g [W/kg]	2.17	2.28
Power Drift [dB]	-0.03	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		64.2
Dist 3dB Peak [mm]		7.6



# ANNEX C TEST DATA

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

### 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	GSM 850	GSM, 10024-DAC	848.8, 251	9.99	0.947	40.2	22.5	21.3

### Hardware Setup

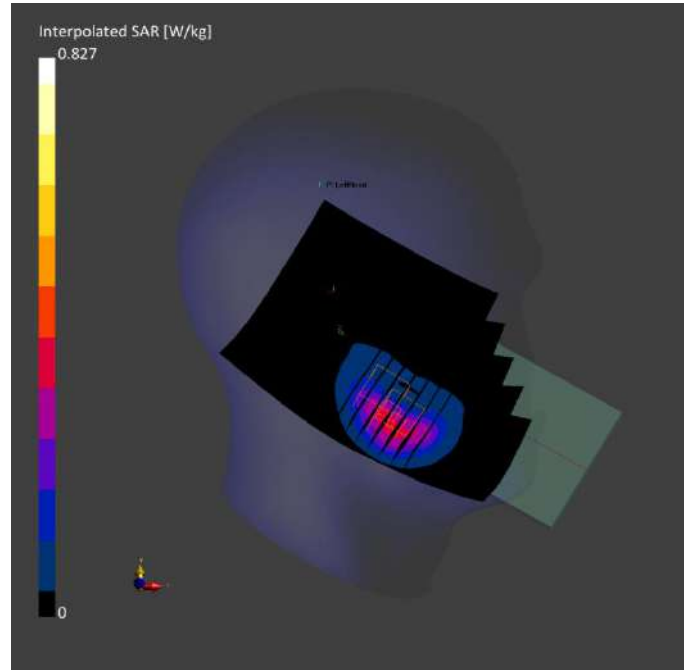
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-11-05	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

### 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	2024-11-05	2024-11-05
psSAR1g [W/kg]	0.318	0.319
psSAR10g [W/kg]	0.206	0.134
Power Drift [dB]	0.08	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		46.9
Dist 3dB Peak [mm]		3.4



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

**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, 10028-DAC	848.8, 251	9.99	0.947	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 2024-11-05	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

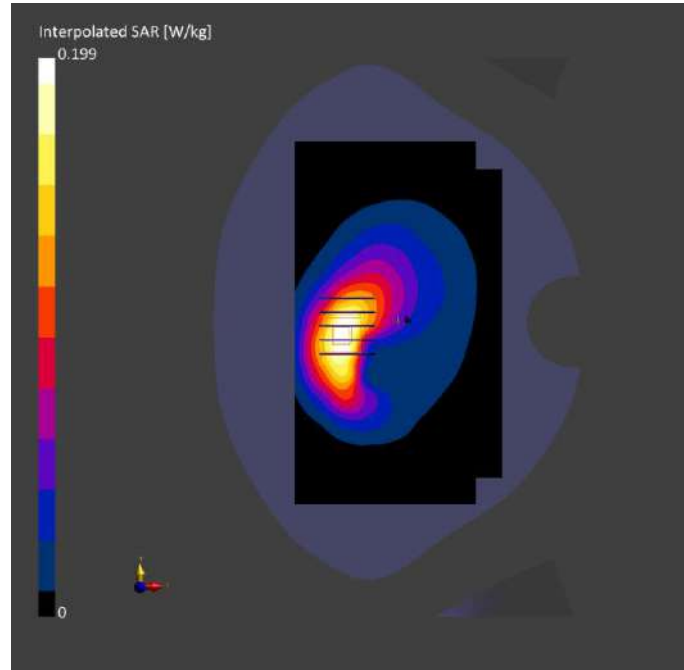
**Scan Setup**

	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	2024-11-05	2024-11-05
psSAR1g [W/kg]	0.115	0.121
psSAR10g [W/kg]	0.073	0.074
Power Drift [dB]	0.00	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		59.4
Dist 3dB Peak [mm]		11.5





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

**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, 10028-DAC	848.8, 251	9.99	0.947	40.2	22.5	21.3

**Hardware Setup**

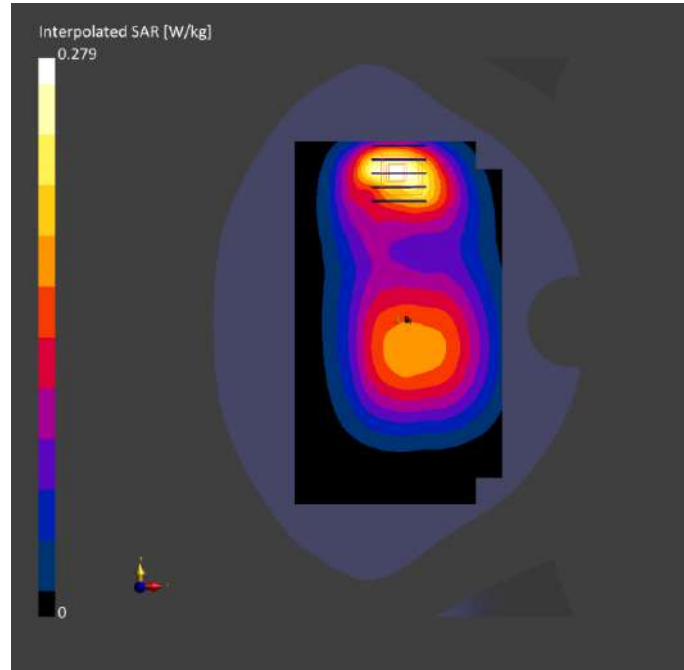
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-11-05	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**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	2024-11-05	2024-11-05
psSAR1g [W/kg]	0.158	0.164
psSAR10g [W/kg]	0.103	0.10
Power Drift [dB]	-0.03	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		56.1
Dist 3dB Peak [mm]		12.9



**Meas.4 Right Head with Tilt on Low Channel in GPRS1900 3slots mode with Antenna 3**

**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	PCS 1900	GSM, 10028-DAC	1850.2, 512	8.33	1.37	41.2	22.1	21.2

**Hardware Setup**

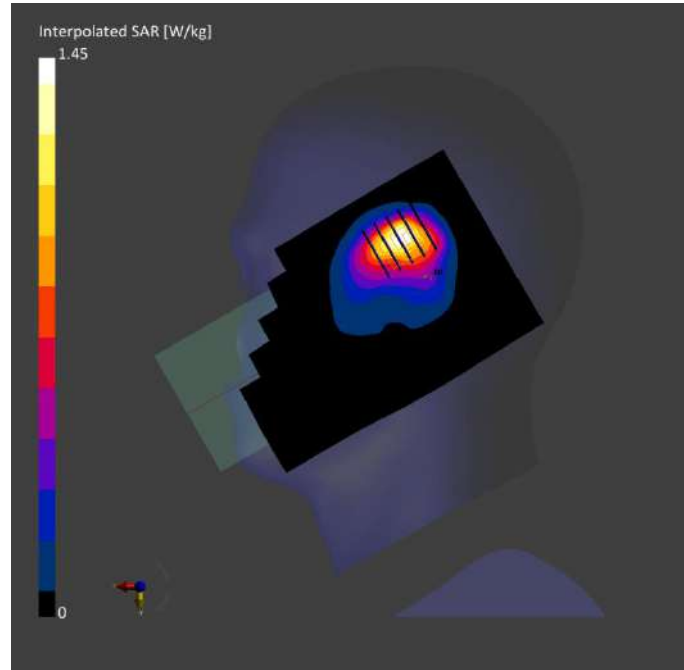
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-17	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**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	2024-10-17	2024-10-17
psSAR1g [W/kg]	0.702	0.745
psSAR10g [W/kg]	0.383	0.398
Power Drift [dB]	0.03	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		46.8
Dist 3dB Peak [mm]		9.0



**Meas.5 Body Plane with Front Side 15mm on Low Channel in GPRS1900 3slots mode with Antenna 3**

**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	FRONT, 15.00	PCS 1900	GSM, 10028-DAC	1850.2, 512	8.33	1.37	41.2	22.1	21.2

**Hardware Setup**

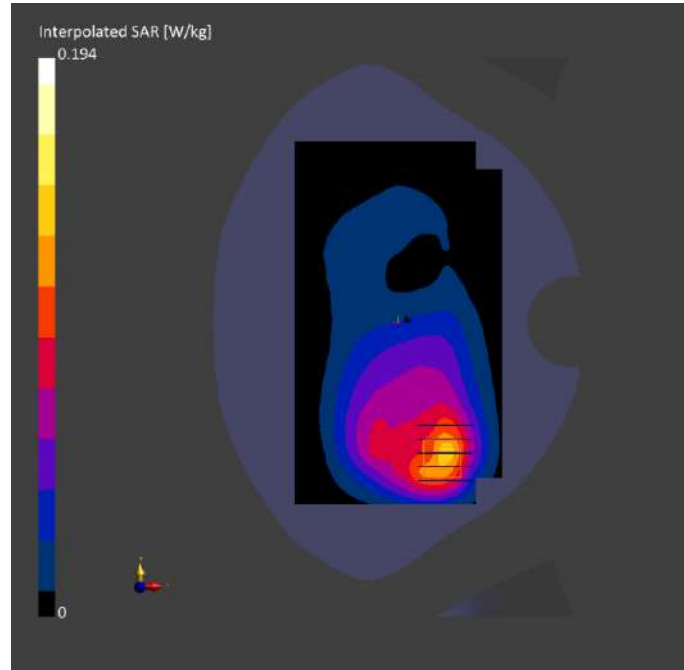
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-17	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

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

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-10-17	2024-10-17
psSAR1g [W/kg]	0.113	0.118
psSAR10g [W/kg]	0.067	0.070
Power Drift [dB]	-0.07	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		59.2
Dist 3dB Peak [mm]		14.3



**Meas.6 Body Plane with Top Edge 10mm on Low Channel in GPRS1900 3slots mode with Antenna 3**

**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	PCS, 1900	GSM, 10028-DAC	1850.2, 512	8.33	1.37	41.2	22.1	21.2

**Hardware Setup**

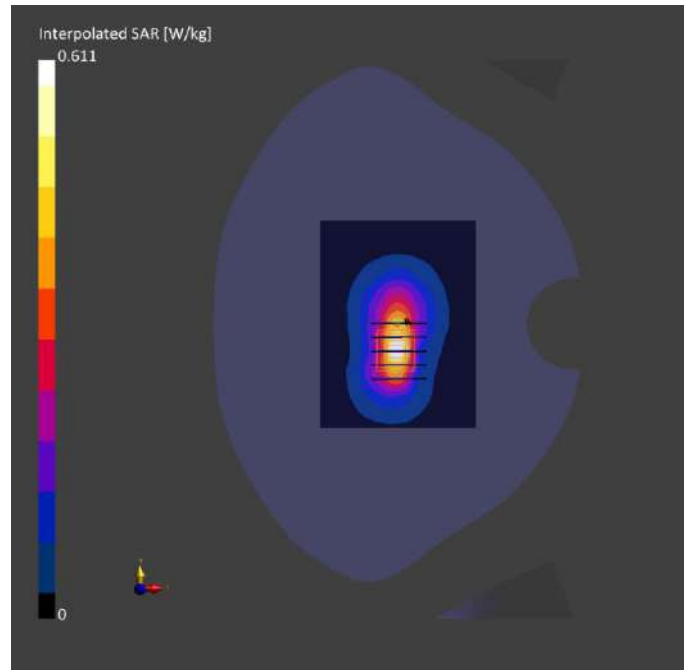
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-17	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**Scan Setup**

**Measurement Results**

		Area Scan	Zoom Scan			Area Scan	Zoom Scan
Grid Extents [mm]		90.0 x 120.0	32.0 x 32.0 x 30.0	Date		2024-10-17	2024-10-17
Grid Steps [mm]		15.0 x 15.0	8.0 x 8.0 x 5.0	psSAR1g [W/kg]		0.315	0.339
Sensor Surface [mm]		3.0	1.4	psSAR10g [W/kg]		0.161	0.176
Graded Grid		Yes	Yes	Power Drift [dB]		-0.03	0.02
Grading Ratio		1.5	1.5	Power Scaling		Disabled	Disabled
MAIA Surface		N/A	N/A	Scaling Factor [dB]			
Detection		All points	All points	TSL Correction		No correction	No correction
Scan Method		Measured	Measured	M2/M1 [%]			55.1
				Dist 3dB Peak [mm]			9.3





**Meas.7 Right Head with Tilt on High Channel in WCDMA Band2 mode with Antenna 3**

**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, 10457-AAB	1907.6, 9538	8.33	1.39	40.5	22.1	21.2

**Hardware Setup**

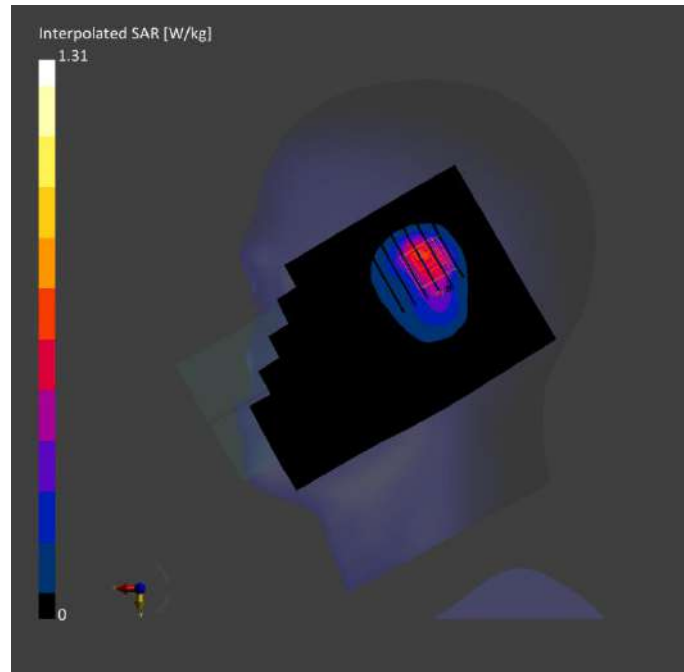
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-17	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**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	2024-10-17	2024-10-17
psSAR1g [W/kg]	0.548	0.721
psSAR10g [W/kg]	0.308	0.353
Power Drift [dB]	0.03	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		55.0
Dist 3dB Peak [mm]		6.4



**Meas.8 Body Plane with Front Side 15mm on High Channel in WCDMA Band2 mode with Antenna 3**

**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	FRONT, 15.00	Band 2	WCDMA, 10457-AAB	1907.6, 9538	8.33	1.39	40.5	22.1	21.2

**Hardware Setup**

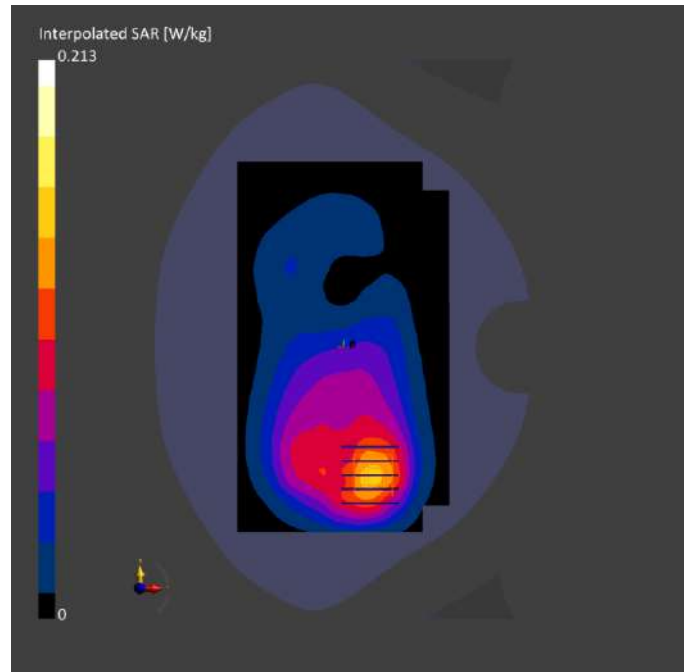
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-17	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

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

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-10-17	2024-10-17
psSAR1g [W/kg]	0.126	0.131
psSAR10g [W/kg]	0.076	0.079
Power Drift [dB]	0.00	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		60.0
Dist 3dB Peak [mm]		17.0



**Meas.9 Body Plane with Top Edge 10mm on High Channel in WCDMA Band2 mode with Antenna 3**

**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 2	WCDMA, 10457-AAB	1907.6, 9538	8.33	1.39	40.5	22.1	21.2

**Hardware Setup**

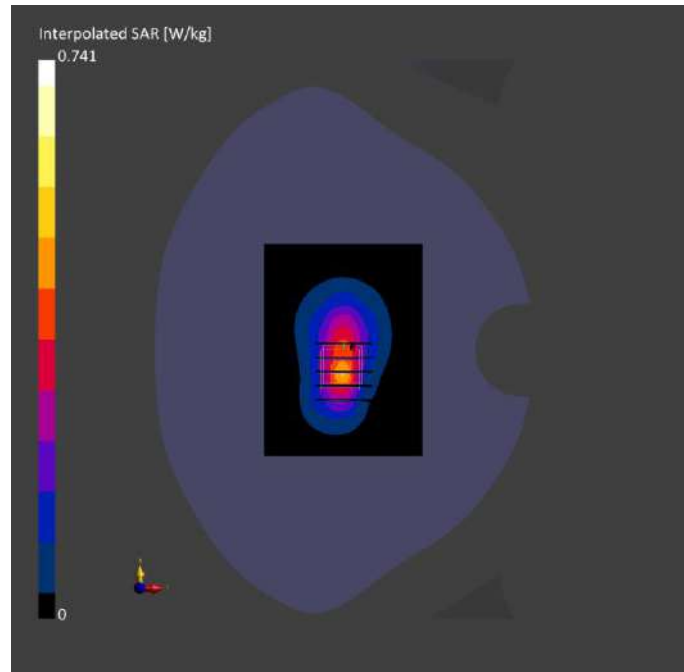
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-17	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

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

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-10-17	2024-10-17
psSAR1g [W/kg]	0.387	0.415
psSAR10g [W/kg]	0.203	0.219
Power Drift [dB]	0.01	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		55.6
Dist 3dB Peak [mm]		9.3



**Meas.10 Right Head with Tilt on Low Channel in WCDMA Band4 mode with Antenna 3**

**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, 10457-AAB	1712.4, 1312	8.67	1.33	41.5	22.4	21.3

**Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-11-06	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

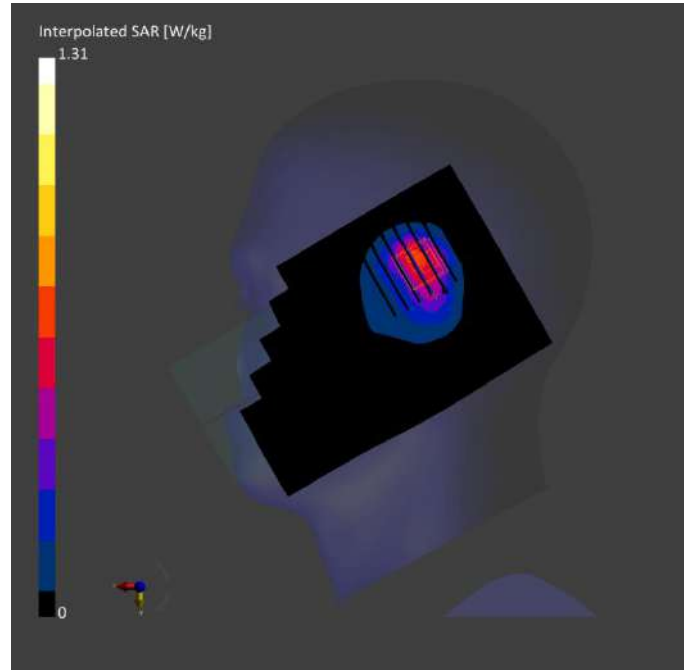
**Scan Setup**

	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	2024-11-06	2024-11-06
psSAR1g [W/kg]	0.570	0.696
psSAR10g [W/kg]	0.328	0.357
Power Drift [dB]	0.00	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		51.7
Dist 3dB Peak [mm]		8.0





**Meas.11 Body Plane with Back Side 15mm on High Channel in WCDMA Band4 mode with Antenna 0**

**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 4	WCDMA, 10457-AAB	1752.6, 1513	8.67	1.42	39.4	22.4	21.3

**Hardware Setup**

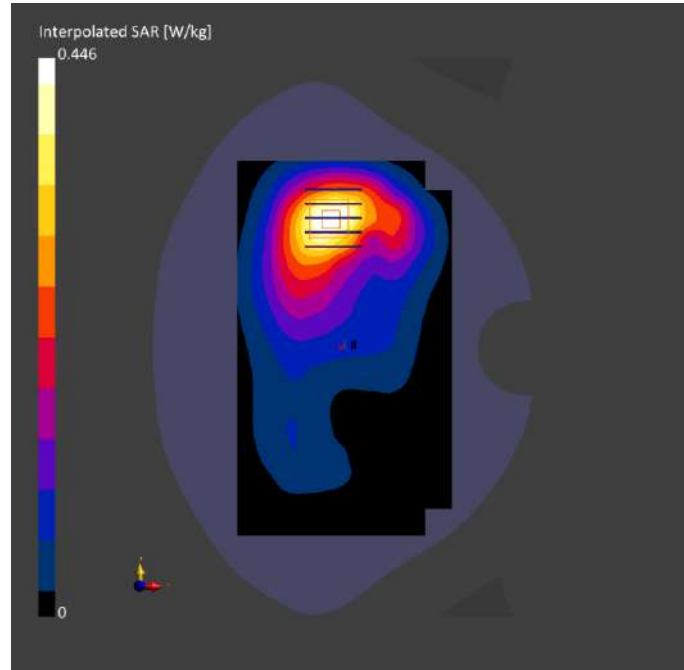
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-11-06	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**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	2024-11-06	2024-11-06
psSAR1g [W/kg]	0.285	0.296
psSAR10g [W/kg]	0.173	0.189
Power Drift [dB]	0.00	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		65.6
Dist 3dB Peak [mm]		20.4



**Meas.12 Body Plane with Bottom Edge 10mm on High Channel in WCDMA Band4 mode with Antenna 0 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, 10457-AAB	1752.6, 1513	8.67	1.42	39.4	22.4	21.3

**Hardware Setup**

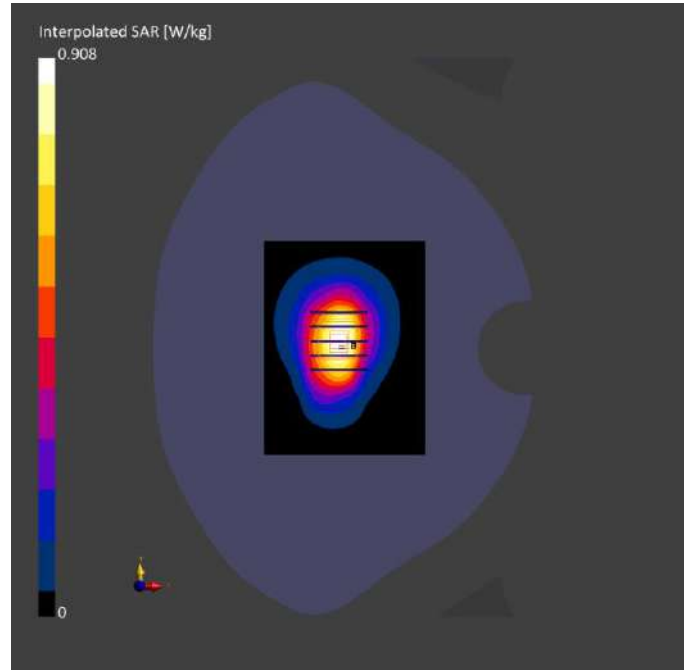
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-11-06	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

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

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-11-06	2024-11-06
psSAR1g [W/kg]	0.533	0.572
psSAR10g [W/kg]	0.311	0.345
Power Drift [dB]	0.01	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		62.6
Dist 3dB Peak [mm]		13.7



**Meas.13 Left Head with Cheek on High Channel in WCDMA Band5 mode with Antenna 1**

**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	Band 5	WCDMA, 10457-AAB	846.6, 4233	9.99	0.931	40.5	22.5	21.3

**Hardware Setup**

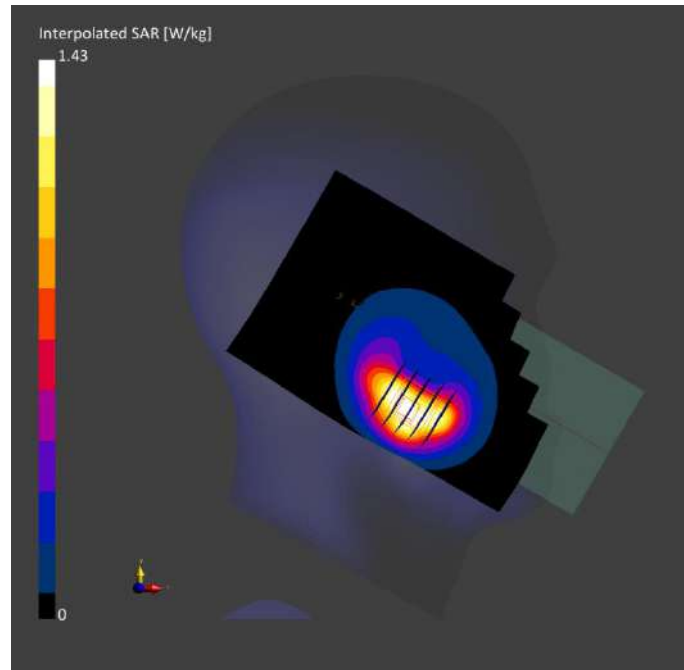
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-11-05	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**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	2024-11-05	2024-11-05
psSAR1g [W/kg]	0.592	0.736
psSAR10g [W/kg]	0.385	0.378
Power Drift [dB]	-0.01	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		52.3
Dist 3dB Peak [mm]		6.5



**Meas.14 Body Plane with Back Side 15mm on High Channel in WCDMA Band5 mode with Antenna 0**

**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 5	WCDMA, 10457-AAB	846.6, 4233	9.99	0.931	40.5	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 2024-11-05	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

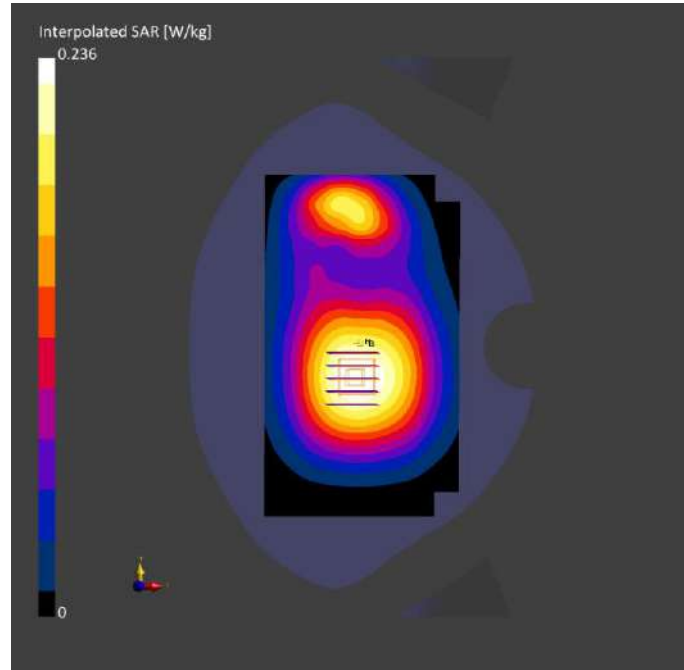
**Scan Setup**

	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	2024-11-05	2024-11-05
psSAR1g [W/kg]	0.165	0.176
psSAR10g [W/kg]	0.116	0.133
Power Drift [dB]	0.01	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		74.2
Dist 3dB Peak [mm]		> 16.0





**Meas.15 Body Plane with Back Side 10mm on High Channel in WCDMA Band5 mode with Antenna 1**

**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	WCDMA, 10457-AAB	846.6, 4233	9.99	0.931	40.5	22.5	21.3

**Hardware Setup**

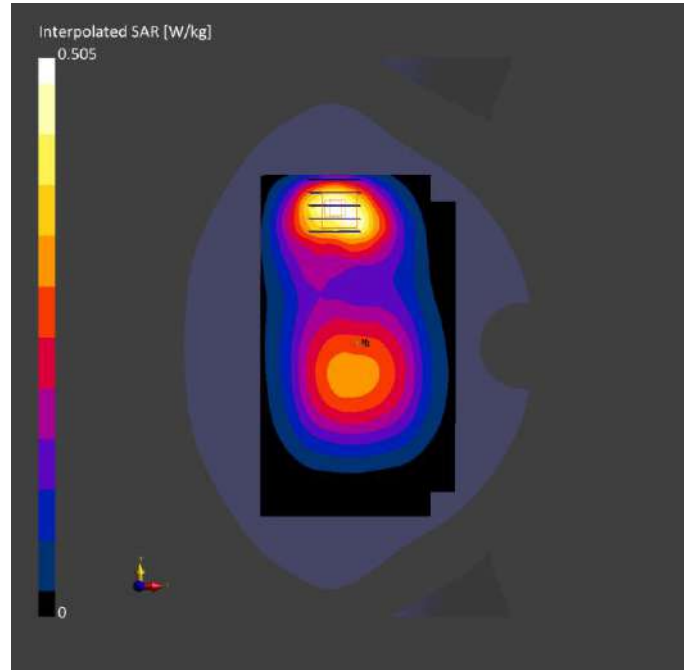
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-11-05	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**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	2024-11-05	2024-11-05
psSAR1g [W/kg]	0.279	0.298
psSAR10g [W/kg]	0.186	0.181
Power Drift [dB]	0.00	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		56.4
Dist 3dB Peak [mm]		12.9



**Meas.16 Right Head with Tilt on High Channel in LTE Band2 mode with Antenna 3**

**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	1900.0, 19100	8.33	1.42	39.7	22.4	21.3

**Hardware Setup**

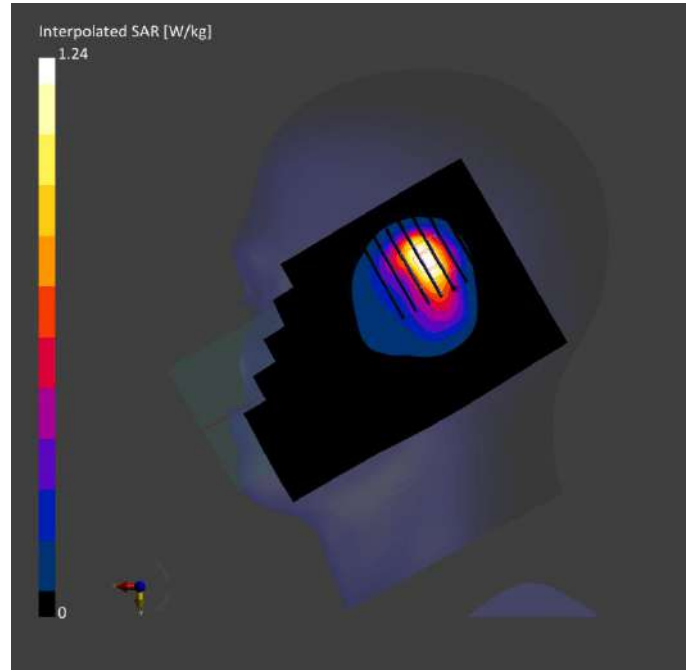
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-18	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**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	2024-10-18	2024-10-18
psSAR1g [W/kg]	0.604	0.664
psSAR10g [W/kg]	0.321	0.329
Power Drift [dB]	0.02	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		52.7
Dist 3dB Peak [mm]		7.2



**Meas.17 Body Plane with Front Side 15mm on High Channel in LTE Band2 mode with Antenna 3**

**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	FRONT, 15.00	Band 2	LTE-FDD, 10169-CAF	1900.0, 19100	8.33	1.42	39.7	22.4	21.3

**Hardware Setup**

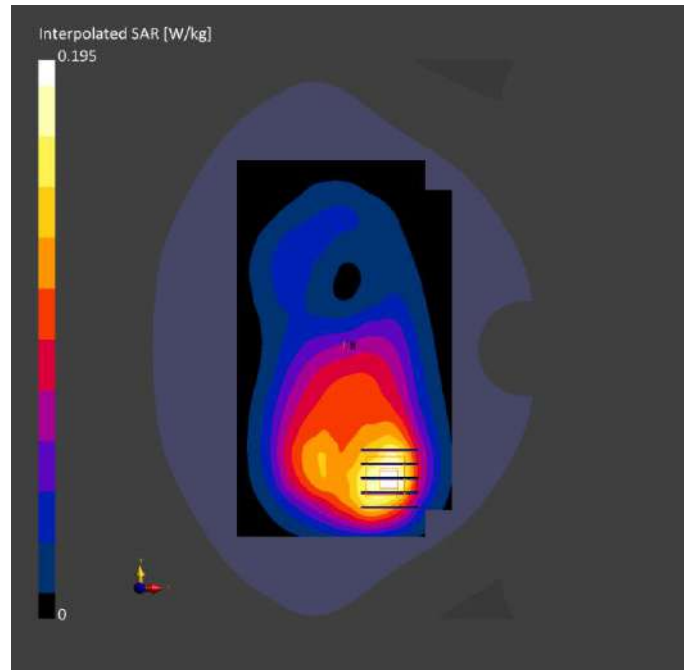
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-18	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

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

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-10-18	2024-10-18
psSAR1g [W/kg]	0.117	0.119
psSAR10g [W/kg]	0.069	0.072
Power Drift [dB]	0.00	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		59.3
Dist 3dB Peak [mm]		16.5



**Meas.18 Body Plane with Top Edge 10mm on High Channel in LTE Band2 mode with Antenna 3**

**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 2	LTE-FDD, 10169-CAF	1900.0, 19100	8.33	1.42	39.7	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 2024-10-18	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

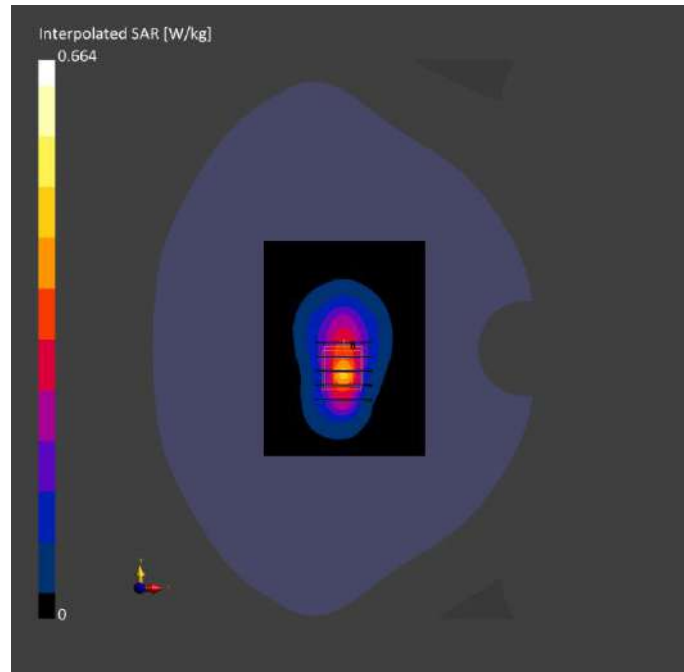
**Scan Setup**

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

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-10-18	2024-10-18
psSAR1g [W/kg]	0.357	0.374
psSAR10g [W/kg]	0.185	0.197
Power Drift [dB]	-0.01	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		55.6
Dist 3dB Peak [mm]		8.6





**Meas.19 Right Head with Tilt on Middle Channel in LTE Band4 mode with Antenna 3**

**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	1732.5, 20175	8.67	1.35	40.2	22.4	21.3

**Hardware Setup**

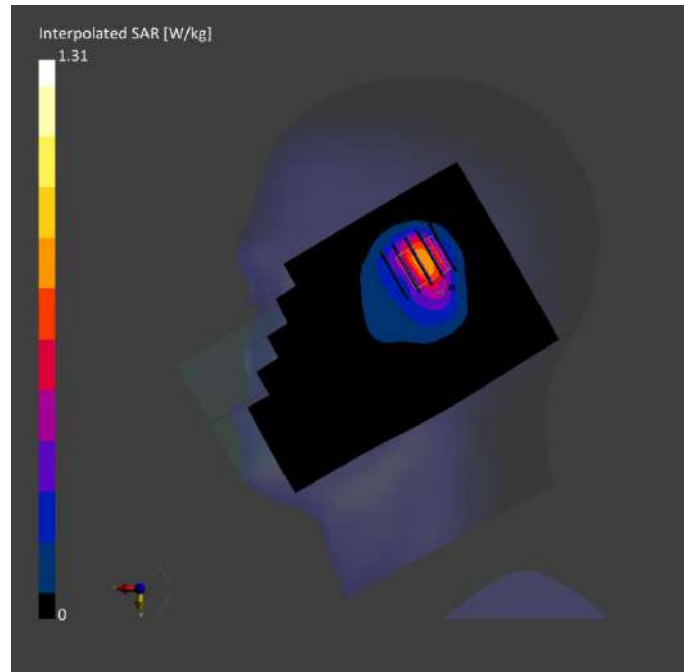
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-11-06	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**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	2024-11-06	2024-11-06
psSAR1g [W/kg]	0.690	0.718
psSAR10g [W/kg]	0.376	0.375
Power Drift [dB]	0.02	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.20 Body Plane with Back Side 15mm on Middle Channel in LTE Band4 mode with Antenna 0**

**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 4	LTE-FDD, 10169-CAF	1732.5, 20175	8.67	1.35	40.2	22.4	21.3

**Hardware Setup**

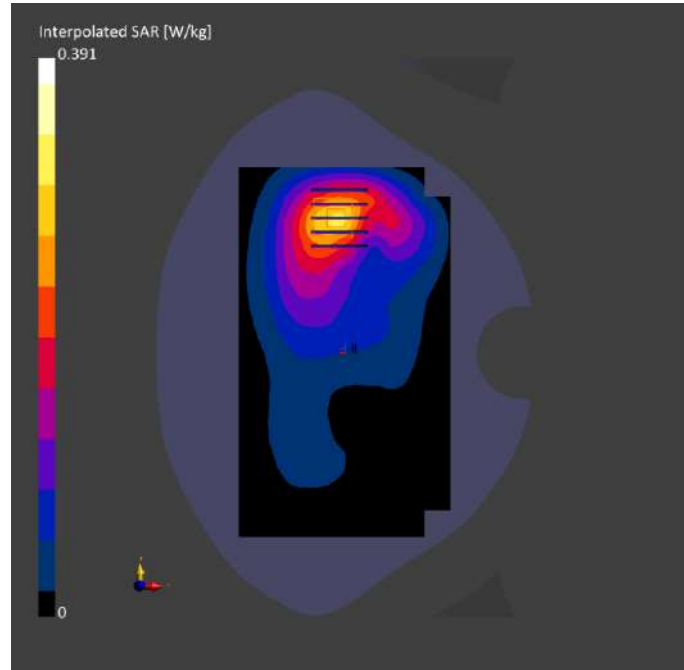
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-11-06	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**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	2024-11-06	2024-11-06
psSAR1g [W/kg]	0.254	0.262
psSAR10g [W/kg]	0.154	0.168
Power Drift [dB]	-0.01	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		66.3
Dist 3dB Peak [mm]		18.2



**Meas.21 Body Plane with Bottom Edge 10mm on Middle Channel in LTE Band4 mode with Antenna 0**

**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	LTE-FDD, 10169-CAF	1732.5, 20175	8.67	1.35	40.2	22.4	21.3

**Hardware Setup**

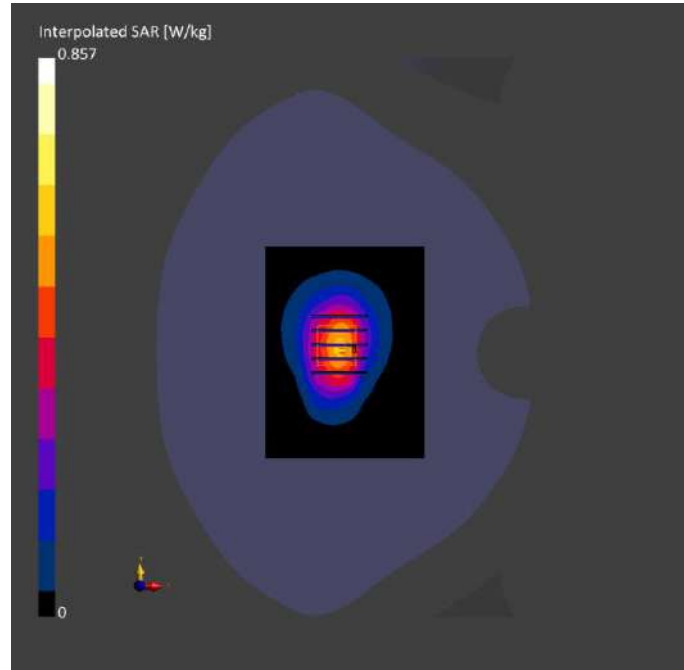
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-11-06	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

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

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-11-06	2024-11-06
psSAR1g [W/kg]	0.496	0.537
psSAR10g [W/kg]	0.291	0.324
Power Drift [dB]	0.00	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		61.9
Dist 3dB Peak [mm]		13.7



**Meas.22 Left Head with Cheek on Middle Channel in LTE Band5 mode with Antenna 1**

**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	Band 5	LTE-FDD, 10175-CAH	836.5, 20525	9.99	0.903	41.4	22.4	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 2024-10-12	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

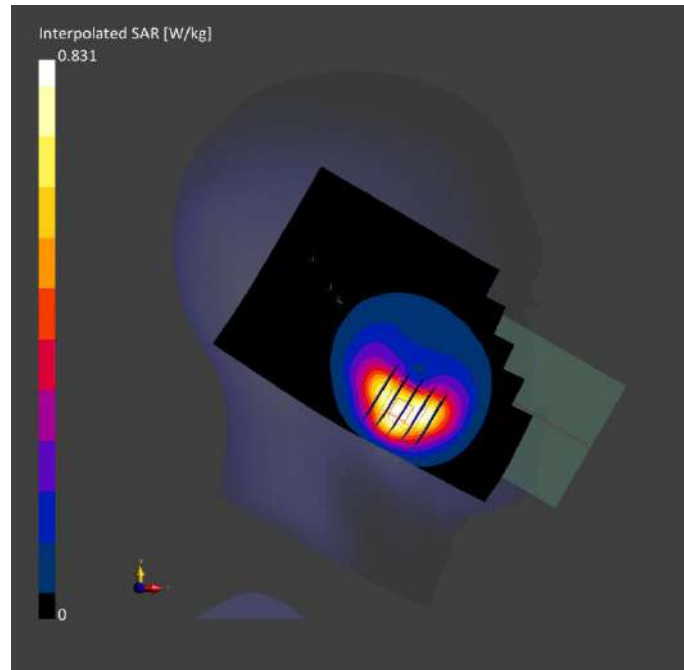
**Scan Setup**

	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	2024-10-12	2024-10-12
psSAR1g [W/kg]	0.367	0.456
psSAR10g [W/kg]	0.238	0.239
Power Drift [dB]	0.00	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		56.3
Dist 3dB Peak [mm]		9.5





**Meas.23 Body Plane with Back Side 15mm on Middle Channel in LTE Band5 mode with Antenna 0**

**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 5	LTE-FDD, 10175-CAH	836.5, 20525	9.99	0.903	41.4	22.4	21.5

**Hardware Setup**

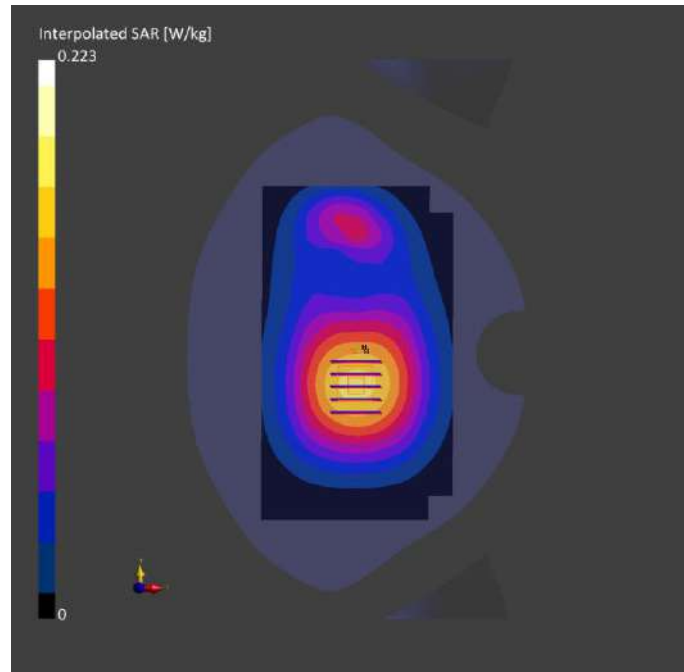
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-12	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**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	All points	All points
Detection		
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-10-12	2024-10-12
psSAR1g [W/kg]	0.154	0.167
psSAR10g [W/kg]	0.109	0.126
Power Drift [dB]	0.02	-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.24 Body Plane with Right Edge 10mm on Middle Channel in LTE Band5 mode with Antenna 1**

**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, RIGHT, 10.00	Band 5	LTE-FDD, 10175-CAH	836.5, 20525	9.99	0.903	41.4	22.4	21.5

**Hardware Setup**

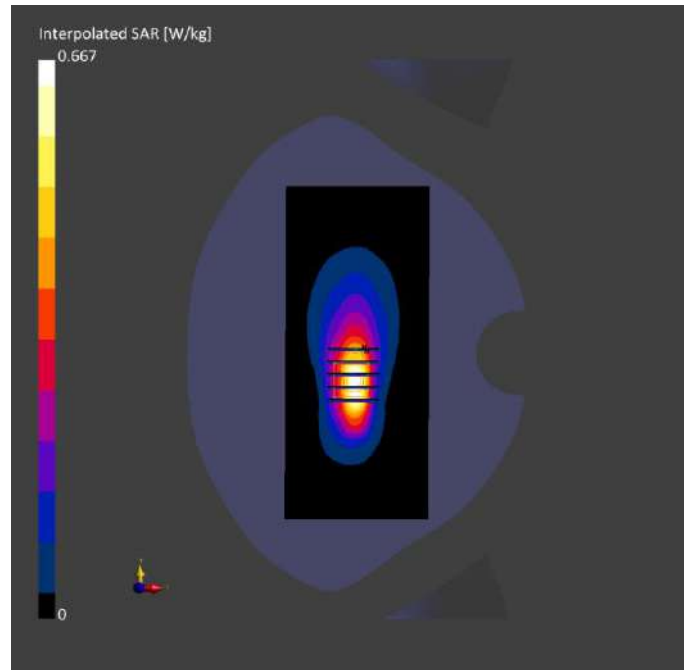
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-12	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 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	2024-10-12	2024-10-12
psSAR1g [W/kg]	0.338	0.372
psSAR10g [W/kg]	0.199	0.205
Power Drift [dB]	-0.01	-0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		54.6
Dist 3dB Peak [mm]		9.6



**Meas.25 Right Head with Tilt on Middle Channel in LTE Band7 mode with Antenna 3**

**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 7	LTE-FDD, 10169-CAF	2535.0, 21100	7.75	1.91	39.5	22.4	21.2

**Hardware Setup**

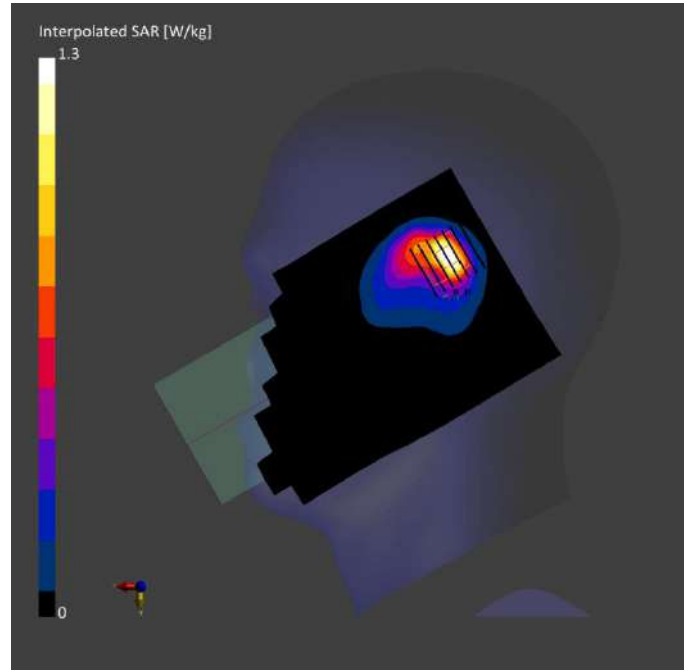
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-21	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**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		
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-10-21	2024-10-21
psSAR1g [W/kg]	0.617	0.657
psSAR10g [W/kg]	0.285	0.293
Power Drift [dB]	-0.05	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		52.1
Dist 3dB Peak [mm]		7.6



**Meas.26 Body Plane with Back Side 15mm on Middle Channel in LTE Band7 mode with Antenna 0**

**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 7	LTE-FDD, 10169-CAF	2535.0, 21100	7.75	1.91	39.5	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 2024-10-21	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

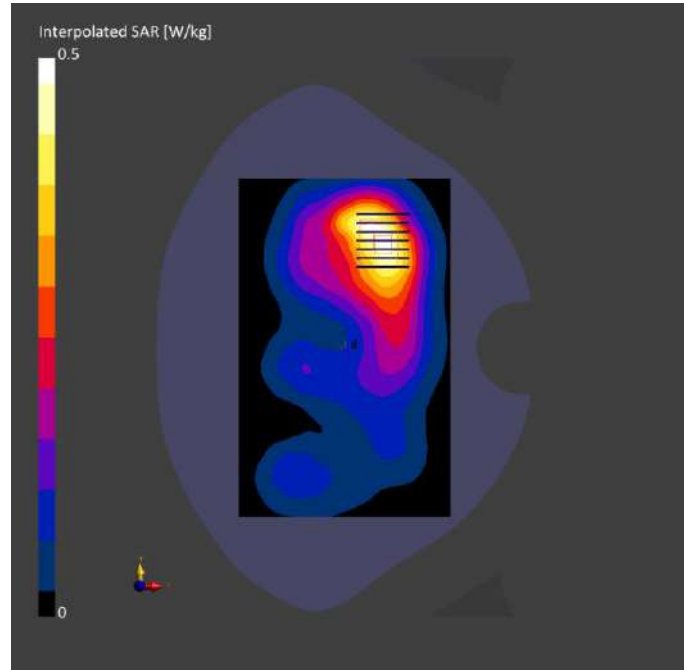
**Scan Setup**

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

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-10-21	2024-10-21
psSAR1g [W/kg]	0.290	0.290
psSAR10g [W/kg]	0.162	0.165
Power Drift [dB]	-0.10	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		54.9
Dist 3dB Peak [mm]		15.6





**Meas.27 Body Plane with Back Side 10mm on Middle Channel in LTE Band7 mode with Antenna 0**

**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 7	LTE-FDD, 10169-CAF	2535.0, 21100	7.75	1.92	39.6	22.4	21.3

**Hardware Setup**

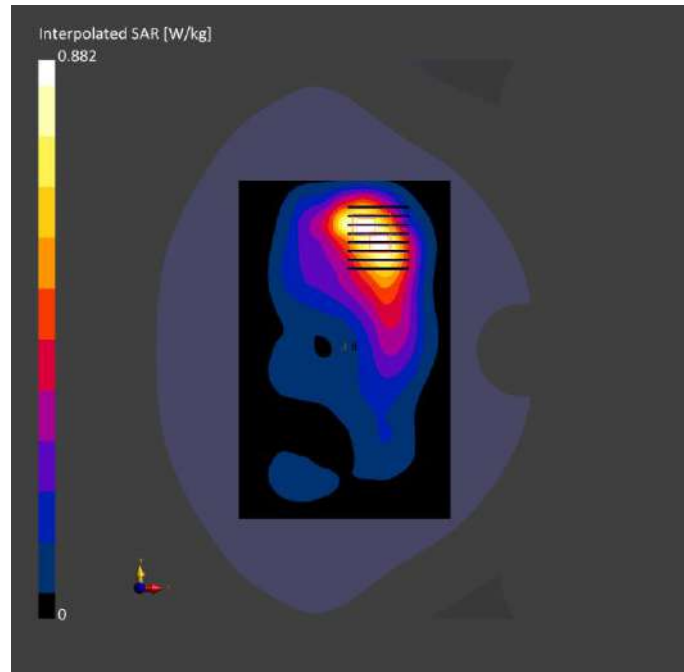
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-22	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**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		
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-10-22	2024-10-22
psSAR1g [W/kg]	0.468	0.504
psSAR10g [W/kg]	0.260	0.280
Power Drift [dB]	0.00	-0.11
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		55.7
Dist 3dB Peak [mm]		13.5



**Meas.28 Left Head with Cheek on Middle Channel in LTE Band12 mode with Antenna 1**

**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	Band 12	LTE-FDD, 10175-CAH	707.5, 23095	10.29	0.891	42.3	22.3	21.3

**Hardware Setup**

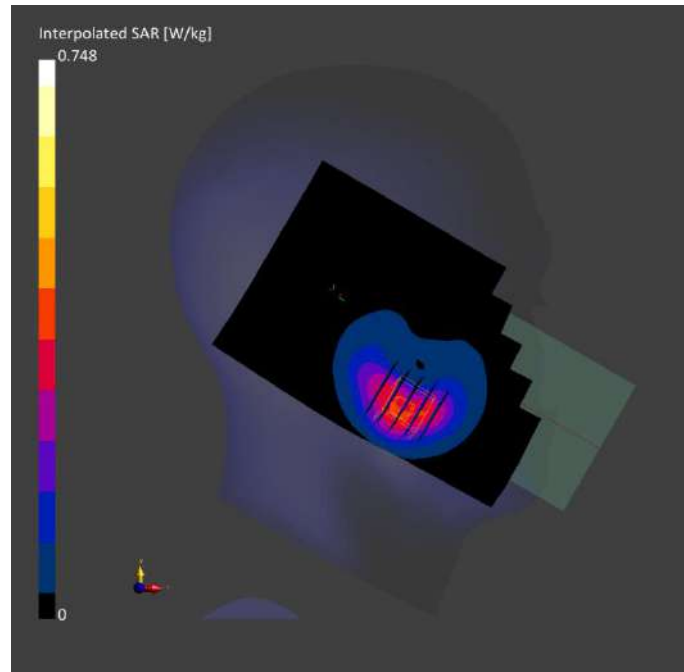
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-09	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**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	2024-10-09	2024-10-09
psSAR1g [W/kg]	0.332	0.407
psSAR10g [W/kg]	0.218	0.217
Power Drift [dB]	0.07	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		55.1
Dist 3dB Peak [mm]		10.3



**Meas.29 Body Plane with Back Side 15mm on Middle Channel in LTE Band12 mode with Antenna 1**

**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 12	LTE-FDD, 10175-CAH	707.5, 23095	10.29	0.891	42.3	22.3	21.3

**Hardware Setup**

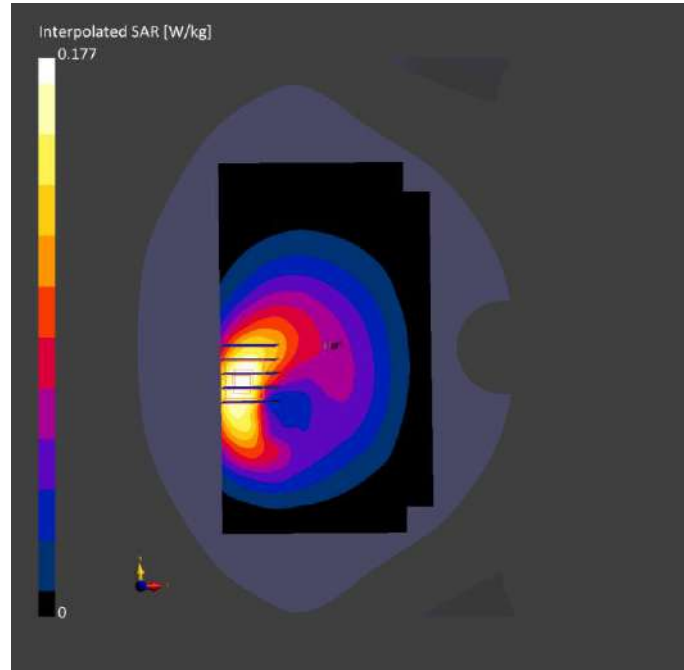
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-09	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**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	2024-10-09	2024-10-09
psSAR1g [W/kg]	0.110	0.114
psSAR10g [W/kg]	0.072	0.074
Power Drift [dB]	0.00	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		63.1
Dist 3dB Peak [mm]		12.9



**Meas.30 Body Plane with Right Edge 10mm on Middle Channel in LTE Band12 mode with Antenna 1**

**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, RIGHT, 10.00	Band 12	LTE-FDD, 10175-CAH	707.5, 23095	10.29	0.891	42.3	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 2024-10-09	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

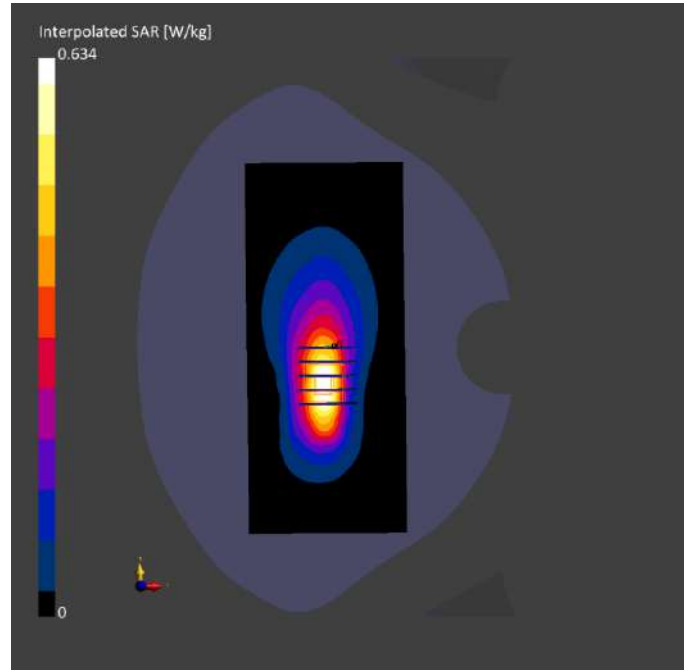
**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 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	2024-10-09	2024-10-09
psSAR1g [W/kg]	0.334	0.366
psSAR10g [W/kg]	0.205	0.212
Power Drift [dB]	0.01	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		56.8
Dist 3dB Peak [mm]		9.6





**Meas.31 Left Head with Cheek on Middle Channel in LTE Band13 mode with Antenna 1**

**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	Band 13	LTE-FDD, 10175-CAH	782.0, 23230	10.29	0.916	41.0	22.3	21.3

**Hardware Setup**

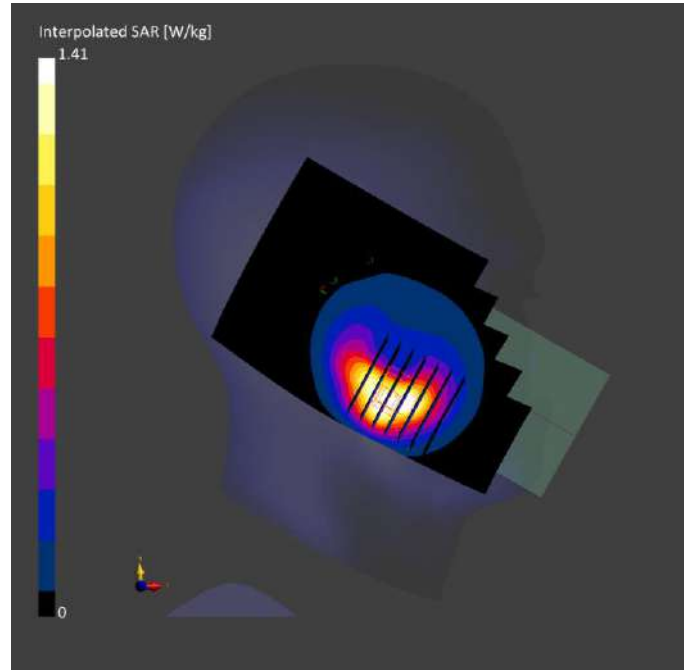
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-09	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**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	2024-10-09	2024-10-09
psSAR1g [W/kg]	0.604	0.755
psSAR10g [W/kg]	0.396	0.403
Power Drift [dB]	0.05	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		56.6
Dist 3dB Peak [mm]		8.1



**Meas.32 Body Plane with Back Side 15mm on Middle Channel in LTE Band13 mode with Antenna 0**

**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	10.29	0.916	41.0	22.3	21.3

**Hardware Setup**

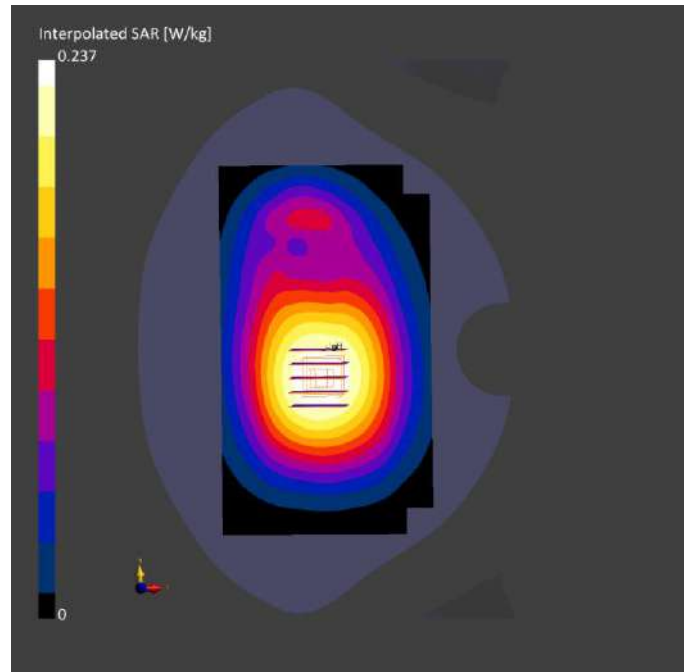
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-09	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**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	2024-10-09	2024-10-09
psSAR1g [W/kg]	0.166	0.179
psSAR10g [W/kg]	0.118	0.138
Power Drift [dB]	0.00	-0.07
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		75.4
Dist 3dB Peak [mm]		> 16.0



**Meas.33 Body Plane with Right Edge 10mm on Middle Channel in LTE Band13 mode with Antenna 1**

**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, RIGHT, 10.00	Band 13	LTE-FDD, 10175-CAH	782.0, 23230	10.29	0.916	41.0	22.3	21.3

**Hardware Setup**

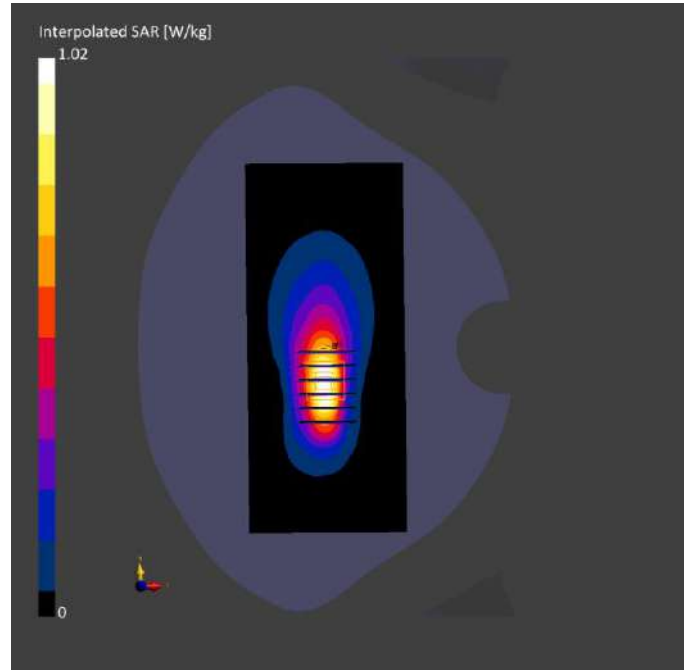
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-09	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 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	2024-10-09	2024-10-09
psSAR1g [W/kg]	0.517	0.565
psSAR10g [W/kg]	0.310	0.315
Power Drift [dB]	0.00	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		54.7
Dist 3dB Peak [mm]		9.6



**Meas.34 Left Head with Cheek on Low Channel in LTE Band17 mode with Antenna 1**

**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	Band 17	LTE-FDD, 10175-CAH	709.0, 23780	10.29	0.875	43.3	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 2024-10-10	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

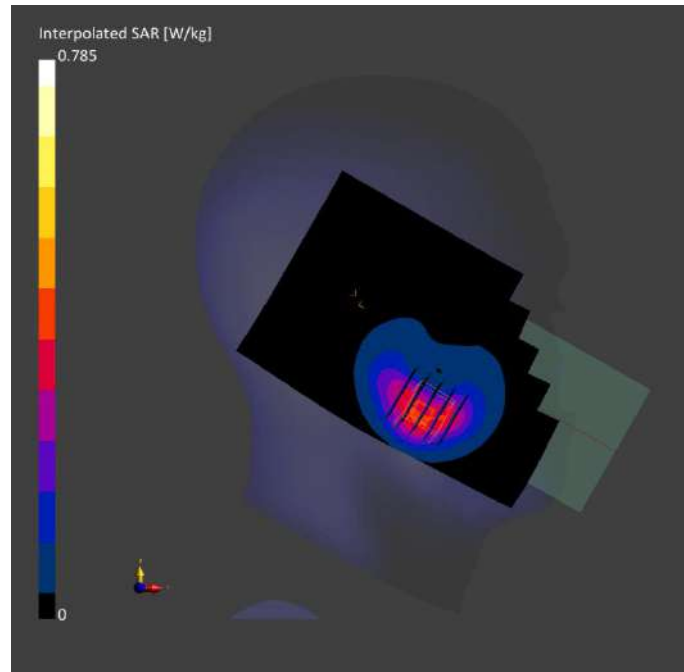
**Scan Setup**

	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	2024-10-10	2024-10-10
psSAR1g [W/kg]	0.349	0.427
psSAR10g [W/kg]	0.230	0.228
Power Drift [dB]	0.06	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		55.1
Dist 3dB Peak [mm]		10.3





**Meas.35 Body Plane with Back Side 15mm on Low Channel in LTE Band17 mode with Antenna 1**

**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 17	LTE-FDD, 10175-CAH	709.0, 23780	10.29	0.875	43.3	22.4	21.2

**Hardware Setup**

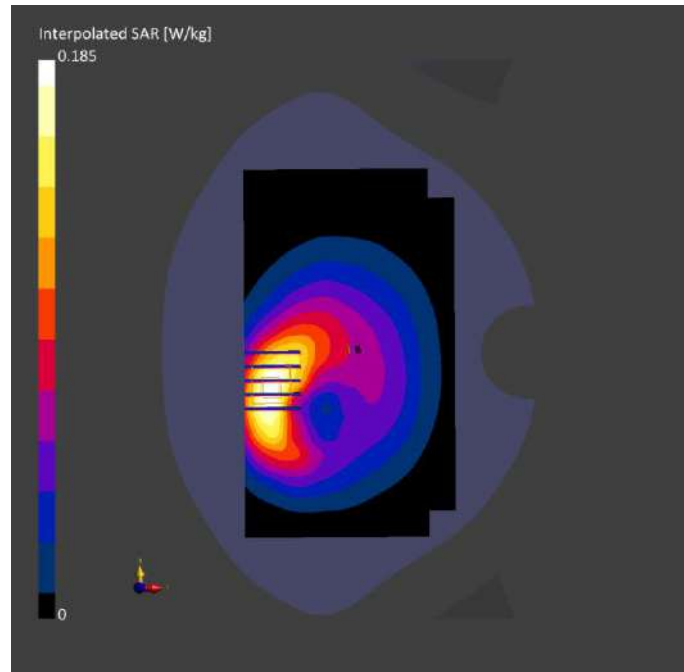
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-10	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**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	2024-10-10	2024-10-10
psSAR1g [W/kg]	0.116	0.120
psSAR10g [W/kg]	0.076	0.078
Power Drift [dB]	0.01	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		64.4
Dist 3dB Peak [mm]		13.2



**Meas.36 Body Plane with Right Edge 10mm on Low Channel in LTE Band17 mode with Antenna 1**

**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, RIGHT, 10.00	Band 17	LTE-FDD, 10175-CAH	709.0, 23780	10.29	0.875	43.3	22.4	21.2

**Hardware Setup**

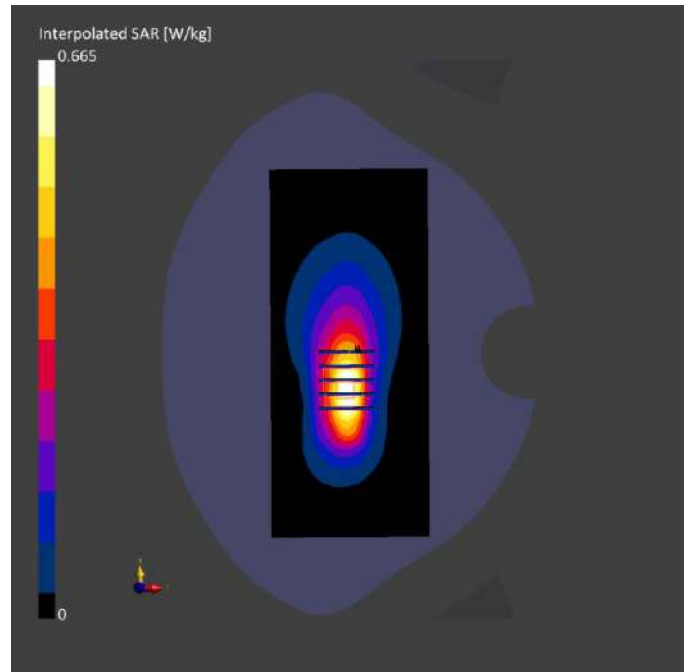
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-10	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 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	2024-10-10	2024-10-10
psSAR1g [W/kg]	0.350	0.384
psSAR10g [W/kg]	0.215	0.222
Power Drift [dB]	0.01	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		56.6
Dist 3dB Peak [mm]		9.6



**Meas.37 Left Head with Cheek on Middle Channel in LTE Band26 mode with Antenna 1**

**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	Band 26	LTE-FDD, 10181-CAF	831.5, 26865	9.99	0.891	41.7	22.4	21.5

**Hardware Setup**

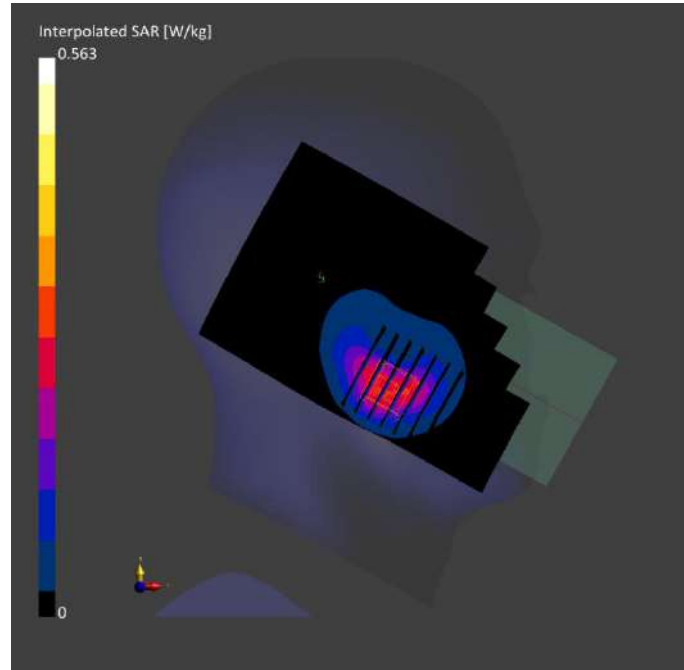
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-12	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**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	2024-10-12	2024-10-12
psSAR1g [W/kg]	0.243	0.304
psSAR10g [W/kg]	0.159	0.162
Power Drift [dB]	0.02	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		48.8
Dist 3dB Peak [mm]		8.1



**Meas.38 Body Plane with Back Side 15mm on Middle Channel in LTE Band26 mode with Antenna 0**

**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 26	LTE-FDD, 10181-CAF	831.5, 26865	9.99	0.891	41.7	22.4	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 2024-10-12	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

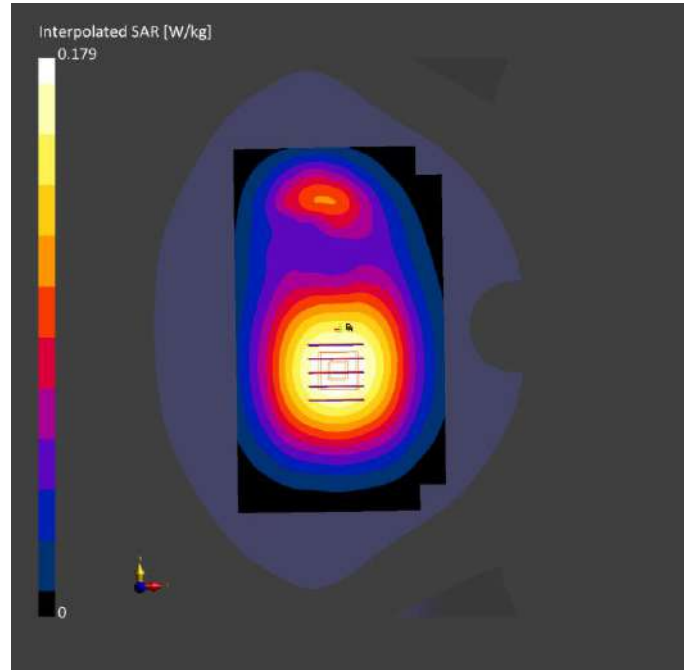
**Scan Setup**

	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	2024-10-12	2024-10-12
psSAR1g [W/kg]	0.126	0.136
psSAR10g [W/kg]	0.089	0.104
Power Drift [dB]	0.00	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		75.1
Dist 3dB Peak [mm]		> 16.0





**Meas.39 Body Plane with Right Edge 10mm on Middle Channel in LTE Band26 mode with Antenna 1**

**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, RIGHT, 10.00	Band 26	LTE-FDD, 10181-CAF	831.5, 26865	9.99	0.891	41.7	22.4	21.5

**Hardware Setup**

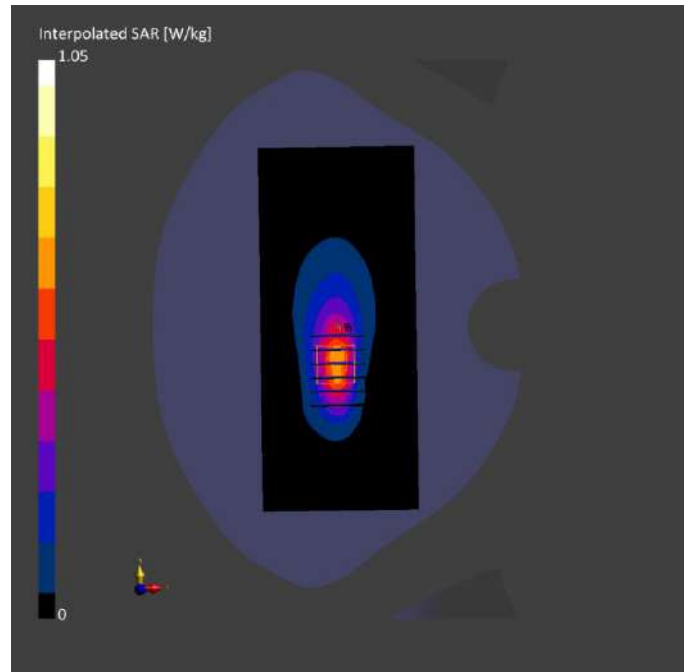
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-12	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 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	2024-10-12	2024-10-12
psSAR1g [W/kg]	0.534	0.597
psSAR10g [W/kg]	0.266	0.332
Power Drift [dB]	-0.12	-0.13
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		56.3
Dist 3dB Peak [mm]		9.6



**Meas.40 Right Head with Tilt on Middle Channel in LTE Band66 mode with Antenna 3**

**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	8.67	1.37	39.8	22.6	21.5

**Hardware Setup**

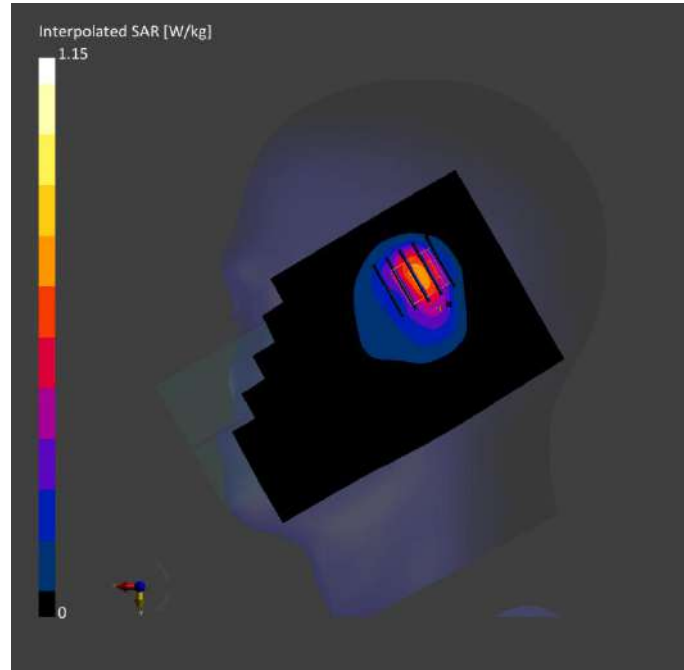
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-15	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**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	2024-10-15	2024-10-15
psSAR1g [W/kg]	0.589	0.623
psSAR10g [W/kg]	0.321	0.323
Power Drift [dB]	0.02	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		52.4
Dist 3dB Peak [mm]		8.0



**Meas.41 Body Plane with Back Side 15mm on Low Channel in LTE Band66 mode with Antenna 3**

**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 66	LTE-FDD, 10169-CAF	1720.0, 132072	8.67	1.37	40.3	22.6	21.5

**Hardware Setup**

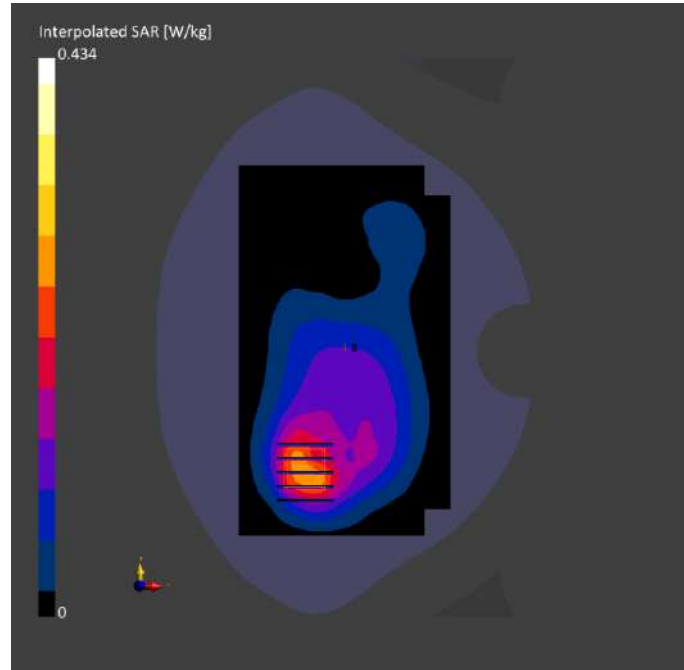
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-15	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**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	2024-10-15	2024-10-15
psSAR1g [W/kg]	0.236	0.261
psSAR10g [W/kg]	0.142	0.152
Power Drift [dB]	0.01	0.11
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		58.5
Dist 3dB Peak [mm]		14.3



**Meas.42 Body Plane with Top Edge 10mm on Low Channel in LTE Band66 mode with Antenna 3**

**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 66	LTE-FDD, 10169-CAF	1720.0, 132072	8.67	1.37	40.3	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 2024-10-15	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

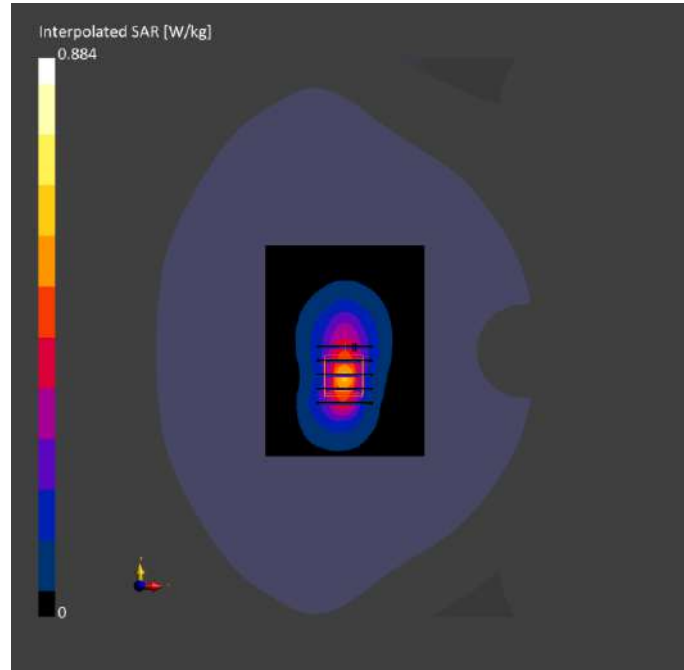
**Scan Setup**

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

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-10-15	2024-10-15
psSAR1g [W/kg]	0.473	0.500
psSAR10g [W/kg]	0.251	0.267
Power Drift [dB]	-0.01	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		55.6
Dist 3dB Peak [mm]		9.6





**Meas.43 Right Head with Tilt on High Channel in LTE Band38 mode with Antenna 3**

**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	7.59	2.04	38.7	22.6	21.5

**Hardware Setup**

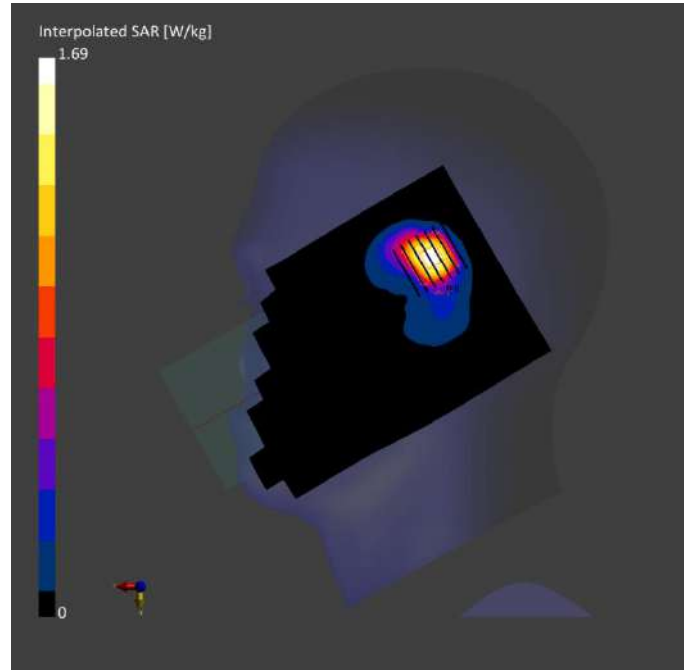
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-23	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**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		
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-10-23	2024-10-23
psSAR1g [W/kg]	0.666	0.852
psSAR10g [W/kg]	0.319	0.353
Power Drift [dB]	-0.01	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		51.6
Dist 3dB Peak [mm]		6.1



**Meas.44 Body Plane with Front Side 15mm on Low Channel in LTE Band38 mode with Antenna 0**

**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	FRONT, 15.00	Band 38	LTE-TDD, 10172-CAH	2580.0, 37850	7.59	1.90	39.9	22.6	21.5

**Hardware Setup**

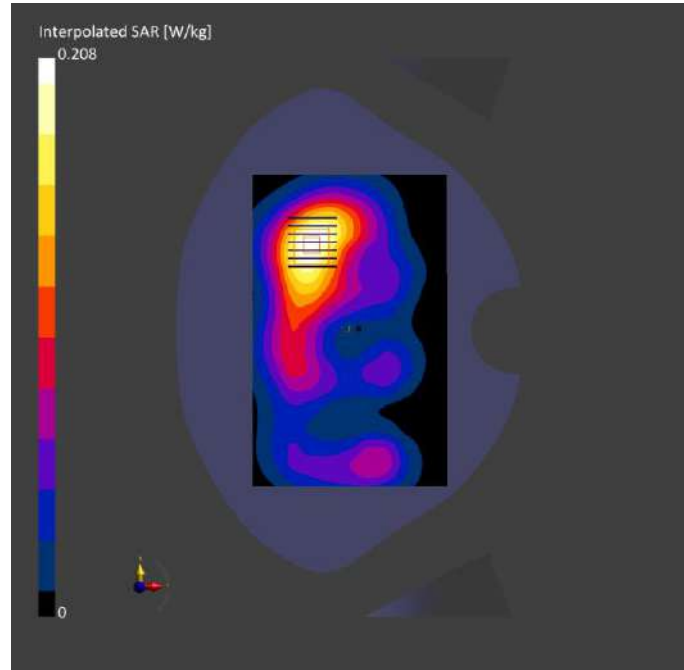
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-23	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**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	2024-10-23	2024-10-23
psSAR1g [W/kg]	0.116	0.119
psSAR10g [W/kg]	0.065	0.069
Power Drift [dB]	-0.02	-0.08
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		54.8
Dist 3dB Peak [mm]		20.5



**Meas.45 Body Plane with Top Edge 10mm on High Channel in LTE Band38 mode with Antenna 3**

**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 38	LTE-TDD, 10172-CAH	2610.0, 38150	7.59	1.99	39.1	22.6	21.5

**Hardware Setup**

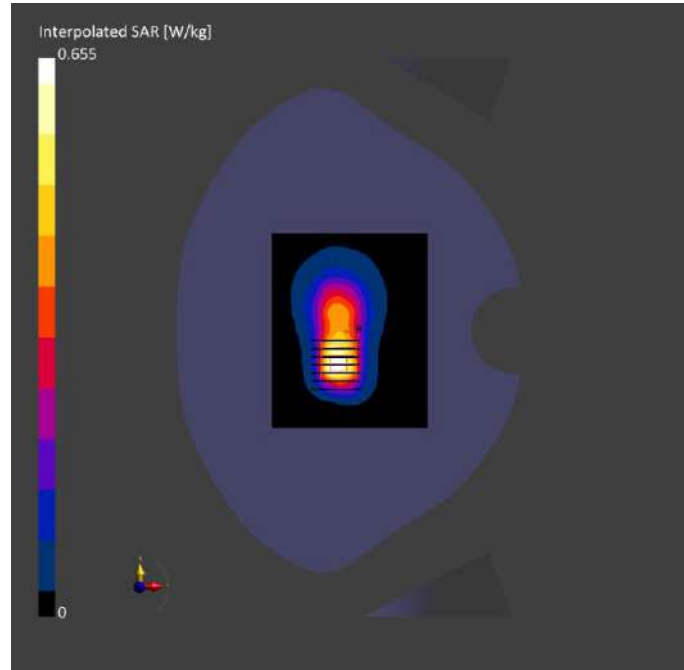
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-24	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

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

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-10-24	2024-10-24
psSAR1g [W/kg]	0.289	0.333
psSAR10g [W/kg]	0.142	0.150
Power Drift [dB]	-0.01	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		52.3
Dist 3dB Peak [mm]		8.0



**Meas.46 Right Head with Tilt on High Channel in LTE Band41 mode with Antenna 3**

**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	2636.5, 41055	7.59	1.99	38.0	22.4	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 2024-10-25	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

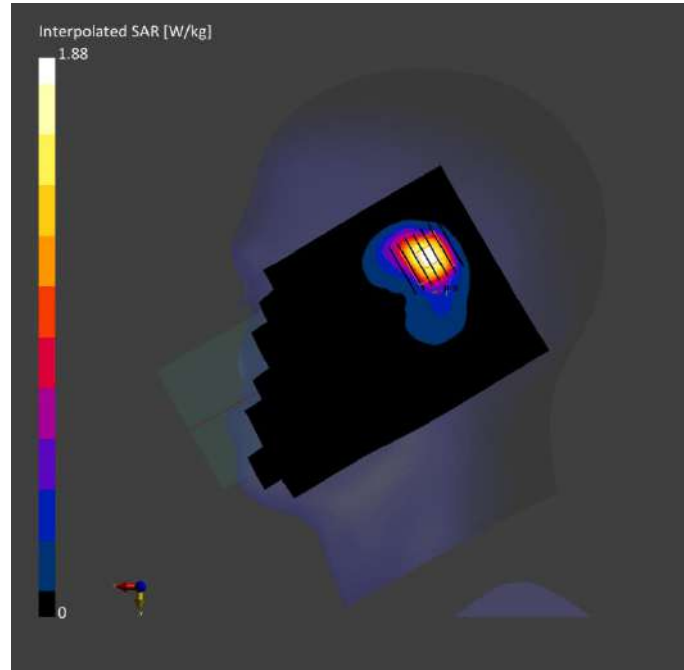
**Scan Setup**

	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		
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-10-25	2024-10-25
psSAR1g [W/kg]	0.724	0.931
psSAR10g [W/kg]	0.344	0.383
Power Drift [dB]	0.01	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		49.7
Dist 3dB Peak [mm]		7.0





**Meas.47 Body Plane with Back Side 15mm on Middle Channel in LTE Band41 mode with Antenna 0**

**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 41	LTE-10172-CAH	2593.0, 40620	7.59	1.96	39.1	22.4	21.4

**Hardware Setup**

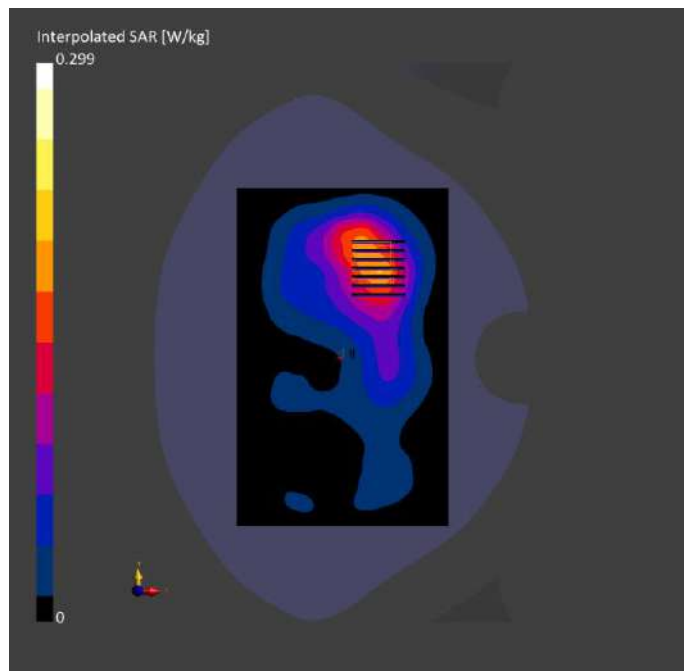
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-25	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

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

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-10-25	2024-10-25
psSAR1g [W/kg]	0.162	0.170
psSAR10g [W/kg]	0.091	0.095
Power Drift [dB]	0.01	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		55.0
Dist 3dB Peak [mm]		17.0



**Meas.48 Body Plane with Top Edge 10mm on Middle Channel in LTE Band41 mode with Antenna 3**

**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 41	LTE-TDD, 10172-CAH	2593.0, 40620	7.59	1.95	39.4	22.5	21.4

**Hardware Setup**

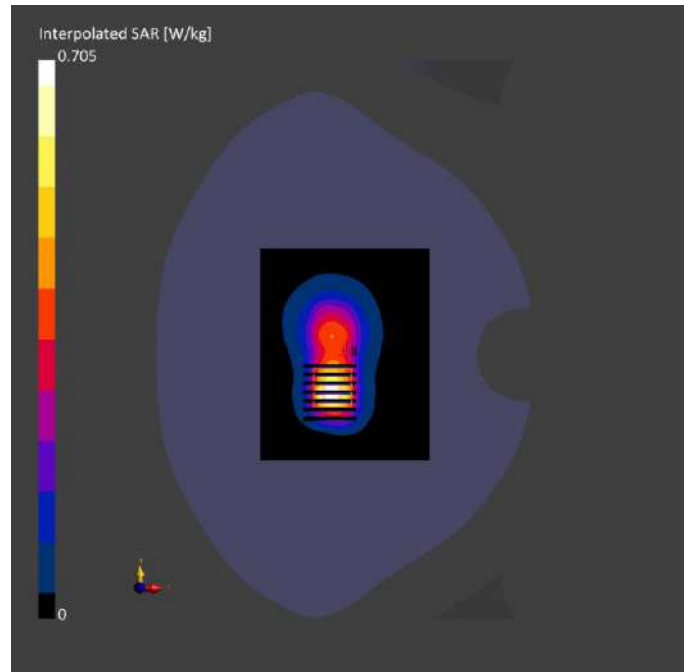
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-26	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn1711, 2024-03-18

**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		
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-10-26	2024-10-26
psSAR1g [W/kg]	0.303	0.349
psSAR10g [W/kg]	0.143	0.154
Power Drift [dB]	0.03	-0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.2
Dist 3dB Peak [mm]		8.0



**Meas.49 Left Head with Cheek on High Channel in NR Band5 mode with Antenna 1**

**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	Band n5	5G NR FR1, FDD, 10931-AAC	839.0, 167800	9.99	0.922	40.2	22.3	21.1

**Hardware Setup**

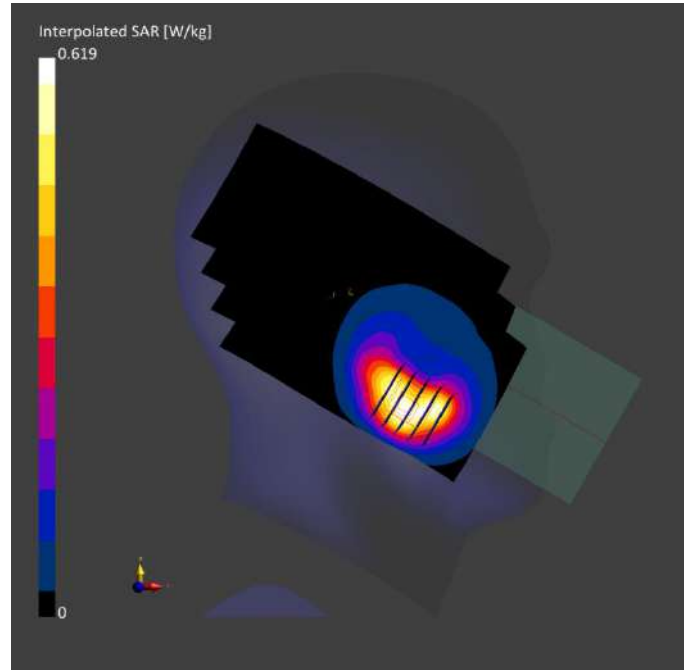
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-13	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**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	2024-10-13	2024-10-13
psSAR1g [W/kg]	0.278	0.346
psSAR10g [W/kg]	0.180	0.184
Power Drift [dB]	-0.01	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		60.8
Dist 3dB Peak [mm]		9.8



**Meas.50 Body Plane with Back Side 15mm on Low Channel in NR Band5 mode with Antenna 0**

**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 n5	5G NR FR1	834.0, 166800	9.99	0.916	41.0	22.3	21.1
			FDD, 10931-AAC						

**Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-13	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

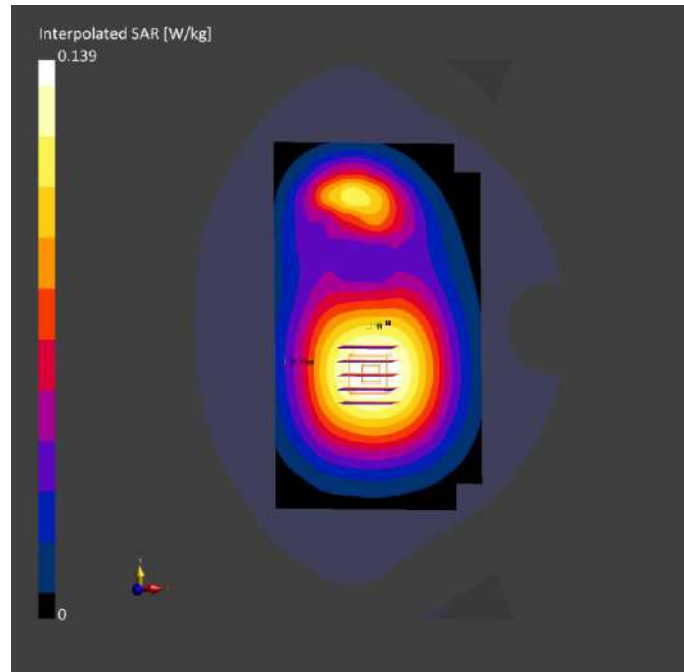
**Scan Setup**

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

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-10-13	2024-10-13
psSAR1g [W/kg]	0.106	0.111
psSAR10g [W/kg]	0.075	0.085
Power Drift [dB]	-0.03	-0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		79.4
Dist 3dB Peak [mm]		> 16.0





**Meas.51 Body Plane with Right Edge 10mm on High Channel in NR Band5 mode with Antenna 1**

**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, RIGHT, 10.00	Band n5	5G NR FR1 FDD, 10931-AAC	839.0, 167800	9.99	0.922	40.2	22.3	21.1

**Hardware Setup**

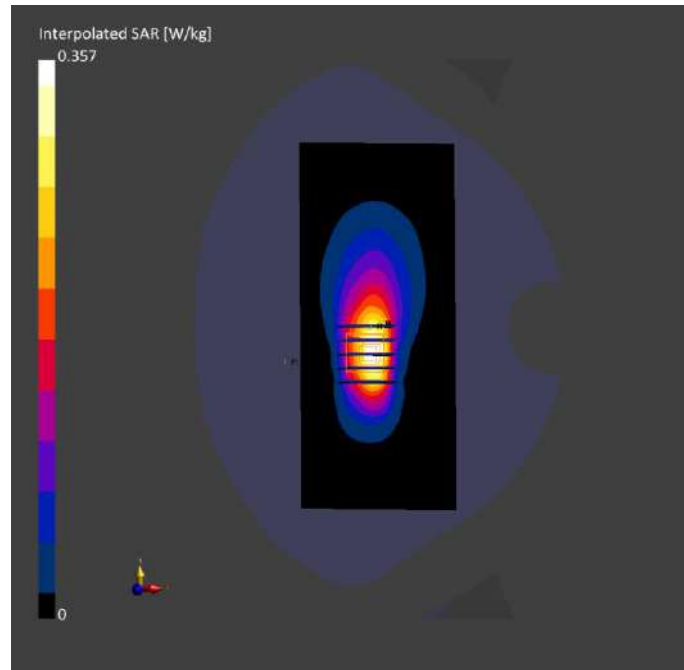
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-13	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 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	2024-10-13	2024-10-13
psSAR1g [W/kg]	0.196	0.214
psSAR10g [W/kg]	0.120	0.121
Power Drift [dB]	0.01	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		59.1
Dist 3dB Peak [mm]		9.6



**Meas.52 Right Head with Tilt on Low Channel in NR Band7 mode with Antenna 3**

**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 n7	5G NR FR1 FDD, 10935-AAD	2525.0, 505000	7.59	1.87	39.5	22.1	21.1

**Hardware Setup**

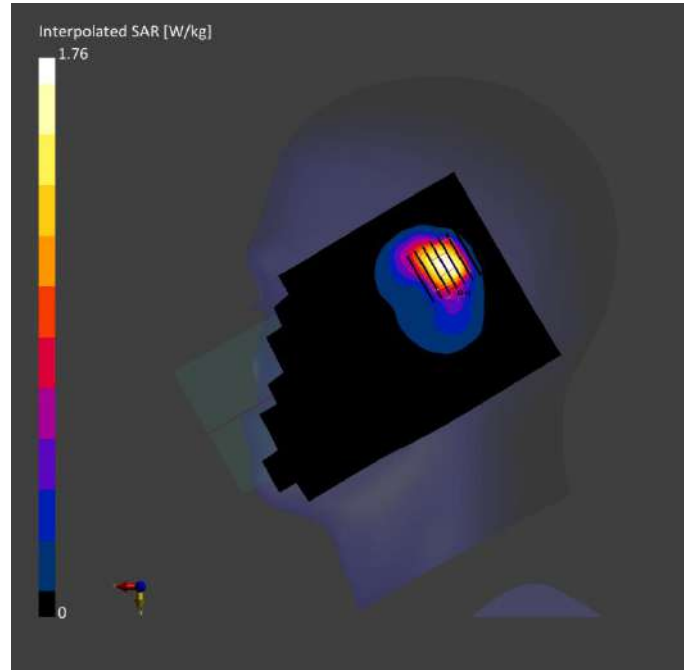
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-28	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**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		
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-10-28	2024-10-28
psSAR1g [W/kg]	0.659	0.858
psSAR10g [W/kg]	0.322	0.357
Power Drift [dB]	-0.04	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.1
Dist 3dB Peak [mm]		6.1



**Meas.53 Body Plane with Back Side 15mm on Middle Channel in NR Band7 mode with Antenna 0**

**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 n7	5G NR FR1	2535.0, 507000	7.59	1.91	38.9	22.1	21.1
			FDD, 10935-AAD						

**Hardware Setup**

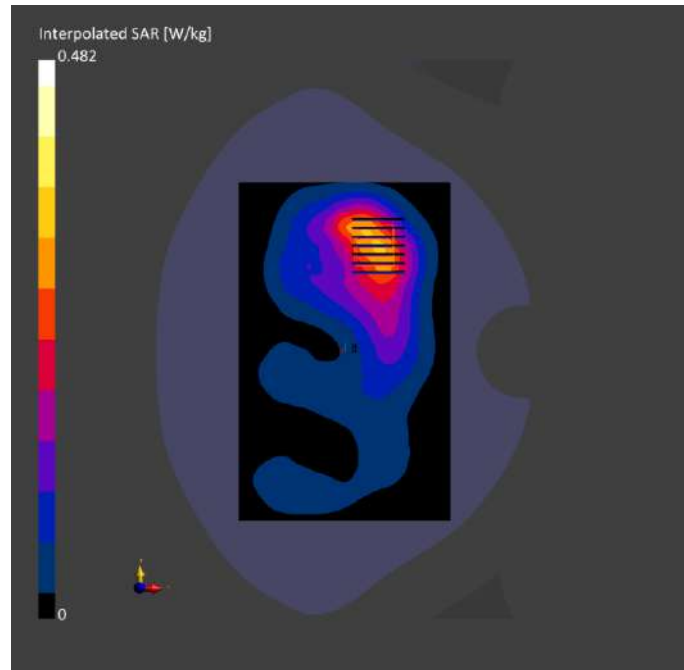
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-28	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**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		
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-10-28	2024-10-28
psSAR1g [W/kg]	0.268	0.278
psSAR10g [W/kg]	0.151	0.156
Power Drift [dB]	0.00	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		55.4
Dist 3dB Peak [mm]		16.1



**Meas.54 Body Plane with Back Side 10mm on Middle Channel in NR Band7 mode with Antenna 0**

**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 n7	5G NR FR1	2535.0, 507000	7.59	1.91	38.6	22.3	21.2
			FDD, 10935-AAD						

**Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-27	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

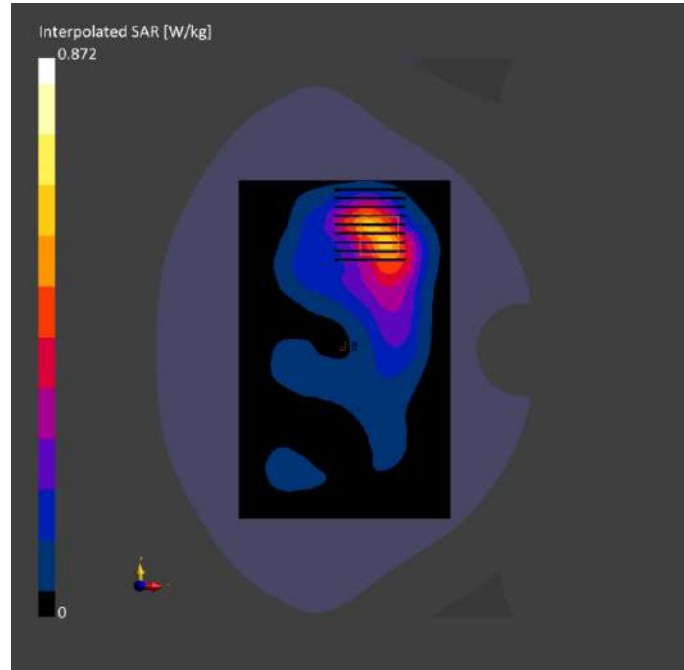
**Scan Setup**

	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		
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-10-27	2024-10-27
psSAR1g [W/kg]	0.496	0.497
psSAR10g [W/kg]	0.269	0.272
Power Drift [dB]	-0.03	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		55.9
Dist 3dB Peak [mm]		12.7





**Meas.55 Right Head with Tilt on Middle Channel in NR Band66 mode with Antenna 3**

**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 FDD, 10934-AAC	1745.0, 349000	8.67	1.36	39.2	22.4	21.2

**Hardware Setup**

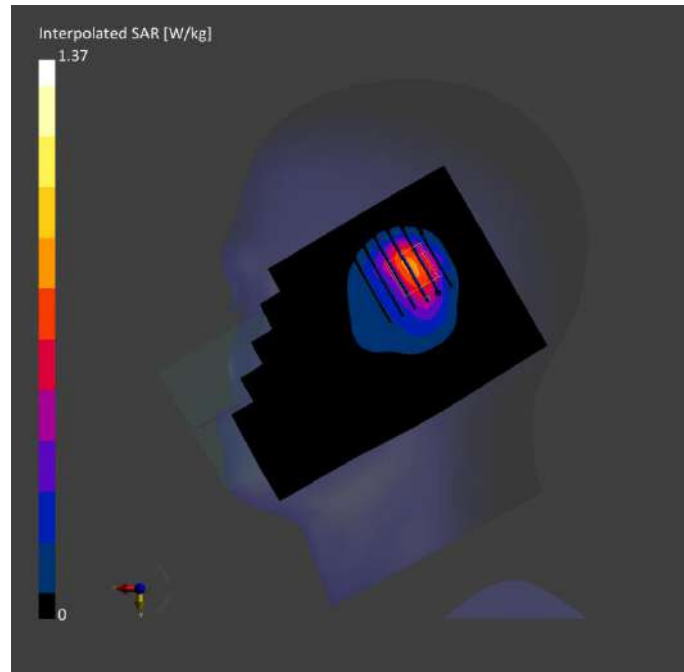
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-16	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**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	2024-10-16	2024-10-16
psSAR1g [W/kg]	0.687	0.797
psSAR10g [W/kg]	0.387	0.419
Power Drift [dB]	0.03	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		58.0
Dist 3dB Peak [mm]		8.0



**Meas.56 Body Plane with Back Side 15mm on Middle Channel in NR Band66 mode with Antenna 0**

**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	8.67	1.36	39.2	22.4	21.2
			FDD, 10934-AAC						

**Hardware Setup**

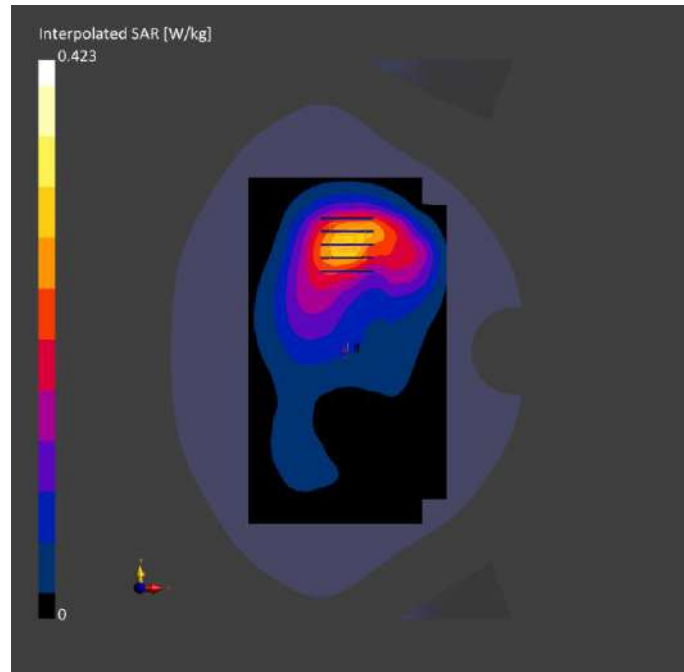
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-16	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**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	2024-10-16	2024-10-16
psSAR1g [W/kg]	0.268	0.286
psSAR10g [W/kg]	0.164	0.184
Power Drift [dB]	0.00	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		67.6
Dist 3dB Peak [mm]		20.9



**Meas.57 Body Plane with Bottom Edge 10mm on Middle Channel in NR Band66 mode with Antenna 0 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 n66	5G NR, FR1, FDD, 10934-AAC	1745.0, 349000	8.67	1.36	39.2	22.4	21.2

**Hardware Setup**

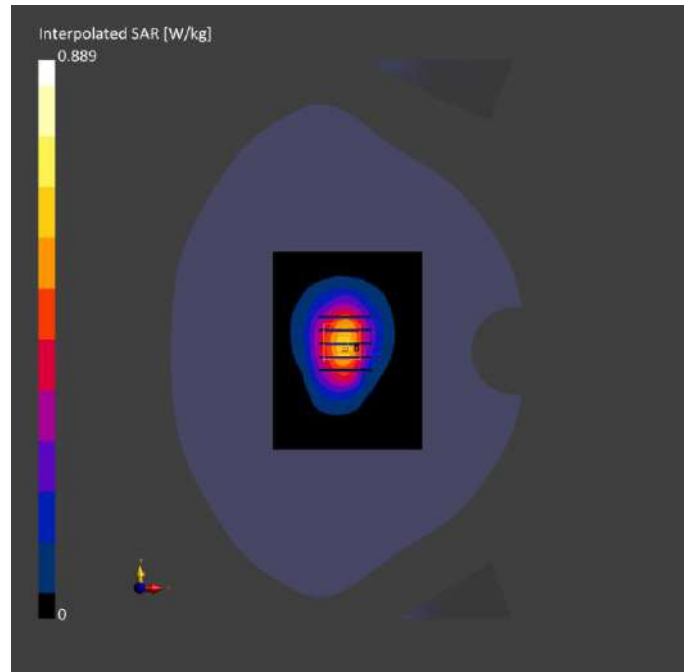
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-16	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

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

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-10-16	2024-10-16
psSAR1g [W/kg]	0.541	0.564
psSAR10g [W/kg]	0.314	0.341
Power Drift [dB]	0.02	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		62.7
Dist 3dB Peak [mm]		14.4



**Meas.58 Right Head with Tilt on Middle Channel in NR Band38 mode with Antenna 3**

**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 TDD, 10797-AAF	2595.0, 519000	7.59	1.96	39.3	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 2024-10-29	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

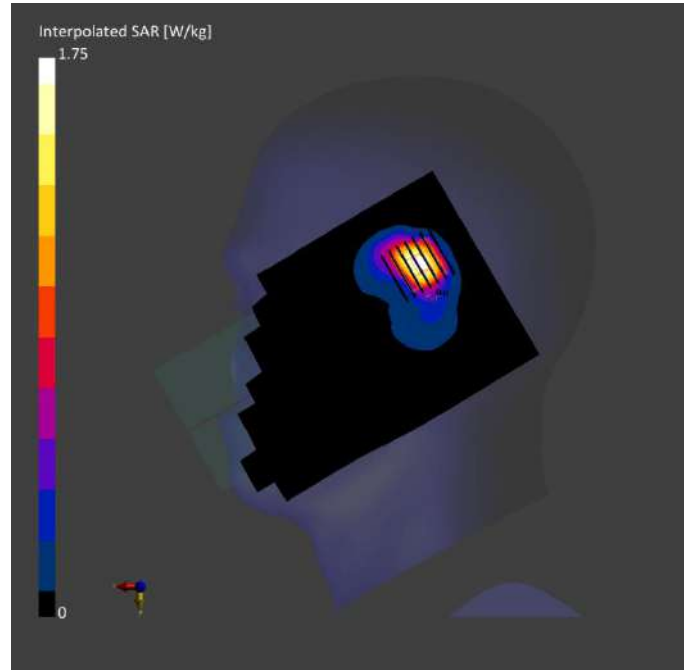
**Scan Setup**

	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		
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-10-29	2024-10-29
psSAR1g [W/kg]	0.682	0.865
psSAR10g [W/kg]	0.323	0.356
Power Drift [dB]	0.01	0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		49.3
Dist 3dB Peak [mm]		7.0





**Meas.59 Body Plane with Back Side 15mm on Low Channel in NR Band38 mode with Antenna 0**

**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	2590.0, 518000	7.59	1.94	40.1	22.4	21.2

**Hardware Setup**

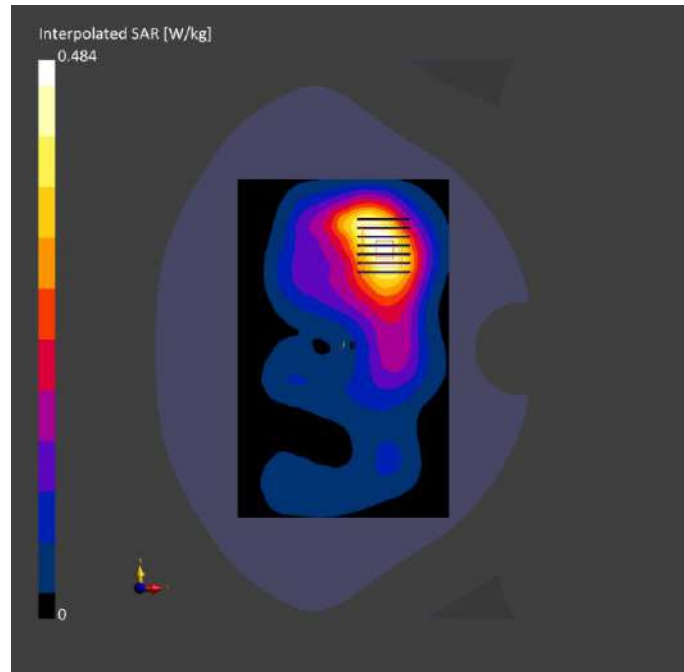
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-29	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**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		
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-10-29	2024-10-29
psSAR1g [W/kg]	0.268	0.277
psSAR10g [W/kg]	0.148	0.155
Power Drift [dB]	0.00	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		54.6
Dist 3dB Peak [mm]		17.0



**Meas.60 Body Plane with Top Edge 10mm on Middle Channel in NR Band38 mode with Antenna 3**

**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	7.59	1.95	38.5	22.4	21.2

**Hardware Setup**

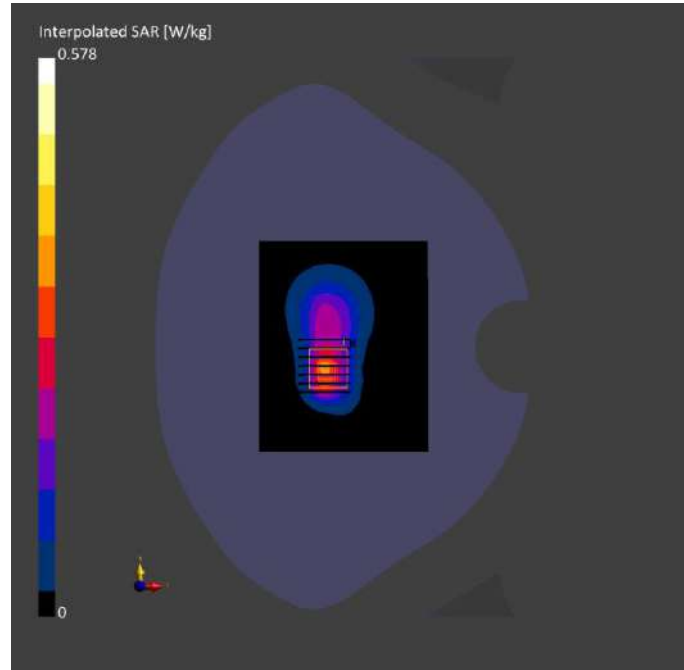
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-30	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**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		
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-10-30	2024-10-30
psSAR1g [W/kg]	0.325	0.356
psSAR10g [W/kg]	0.149	0.161
Power Drift [dB]	-0.03	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		52.0
Dist 3dB Peak [mm]		8.0



**Meas.61 Body Plane with Top Edge 0mm on Middle Channel in NR Band38 mode with Antenna 3**

**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 n38	5G NR FR1 TDD, 10903-AAD	2595.0, 519000	7.59	1.95	38.5	22.4	21.2

**Hardware Setup**

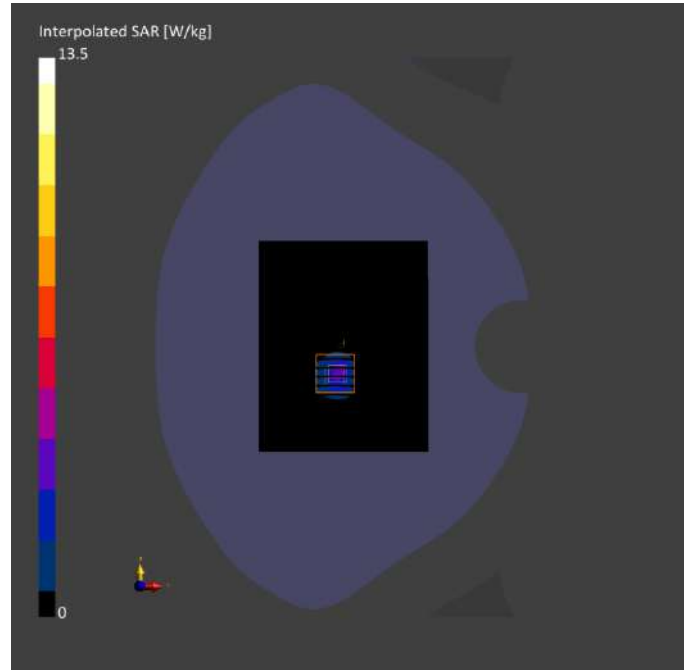
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-30	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**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		
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-10-30	2024-10-30
psSAR1g [W/kg]	2.93	5.25
psSAR10g [W/kg]	1.18	1.60
Power Drift [dB]	-0.03	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		42.3
Dist 3dB Peak [mm]		5.0



**Meas.62 Right Head with Tilt on Middle Channel in NR Band41 mode with Antenna 3**

**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 TDD, 10866-AAF	2593.0, 518598	7.59	1.97	39.0	22.8	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 2024-10-31	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

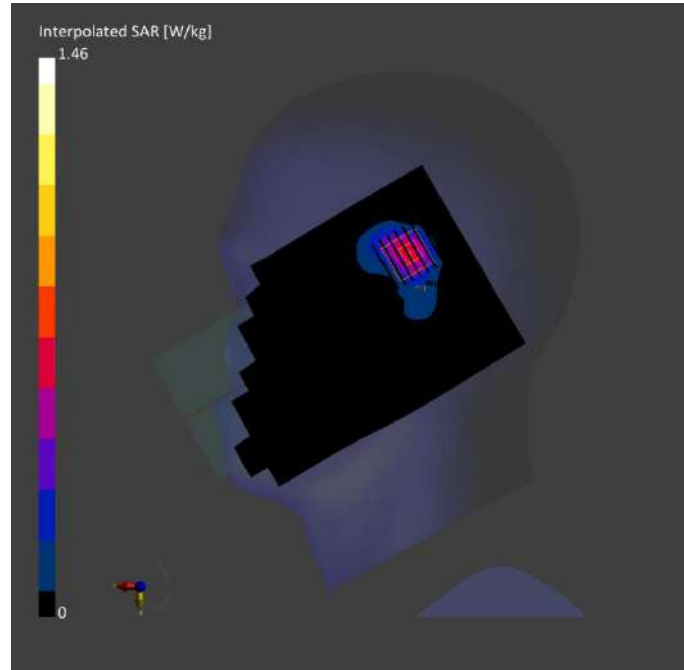
**Scan Setup**

	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		
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-10-31	2024-10-31
psSAR1g [W/kg]	0.558	0.727
psSAR10g [W/kg]	0.268	0.298
Power Drift [dB]	-0.04	0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.4
Dist 3dB Peak [mm]		7.0





**Meas.63 Body Plane with Back Side 15mm on Middle Channel in NR Band41 mode with Antenna 0**

**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	2593.0, 518598	7.59	1.97	39.0	22.8	21.6
			TDD, 10866-AAF						

**Hardware Setup**

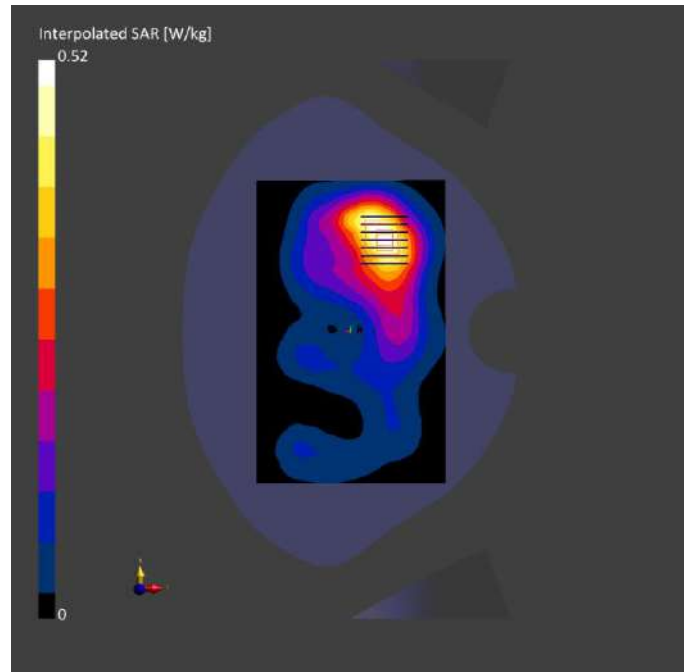
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-31	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**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		
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-10-31	2024-10-31
psSAR1g [W/kg]	0.291	0.299
psSAR10g [W/kg]	0.161	0.168
Power Drift [dB]	-0.01	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		55.4
Dist 3dB Peak [mm]		15.6



**Meas.64 Body Plane with Back Side 10mm on Middle Channel in NR Band41 mode with Antenna 0**

**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 n41	5G NR FR1	2593.0, 518598	7.59	1.95	38.9	22.4	21.6
			TDD, 10866-AAF						

**Hardware Setup**

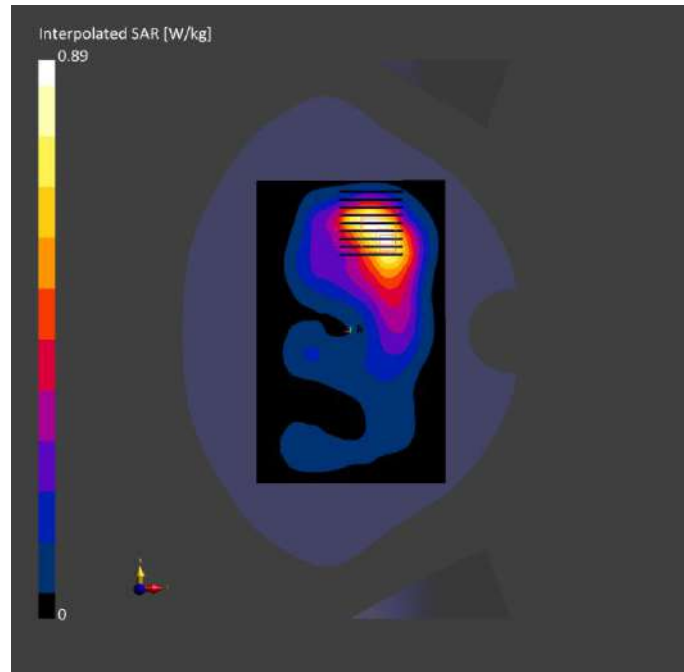
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-11-01	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**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		
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-11-01	2024-11-01
psSAR1g [W/kg]	0.490	0.503
psSAR10g [W/kg]	0.270	0.278
Power Drift [dB]	0.02	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		52.3
Dist 3dB Peak [mm]		12.0



**Meas.65 Left Head with Cheek on 6 Channel in IEEE802.11n HT40 mode with Antenna 9**

**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, 10193-CAE	2437.0, 6	7.75	1.80	40.1	22.5	21.4

**Hardware Setup**

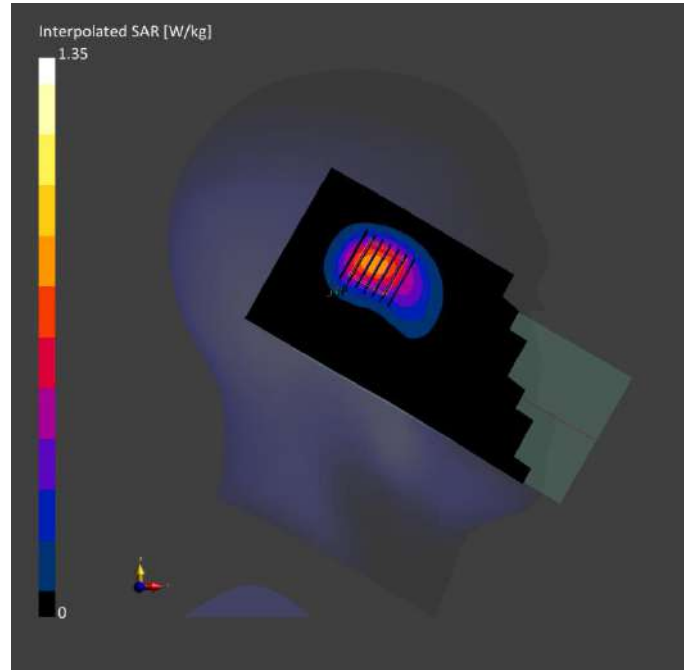
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-19	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA Surface	N/A	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-10-19	2024-10-19
psSAR1g [W/kg]	0.608	0.624
psSAR10g [W/kg]	0.313	0.323
Power Drift [dB]	-0.07	-0.11
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		54.8
Dist 3dB Peak [mm]		9.5



**Meas.66 Body Plane with Back Side 15mm on 6 Channel in IEEE802.11n HT40 mode with Antenna 9**

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distanc e [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversio n Factor	TSL Conductivit y [S/m]	TSL Permittivit y	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL	BACK, 15.00	WLAN, 2.4GH z	WLAN, 10193- CAE	2437.0, 6	7.75	1.80	40.1	22.5	21.4

**Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-19	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

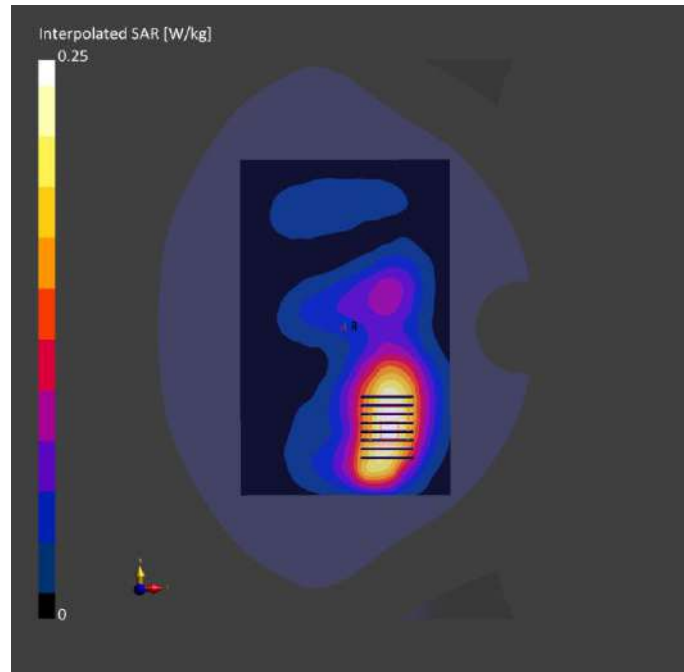
**Scan Setup**

	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 Surface	Y	Y
Detection	All points	All points
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-10-19	2024-10-19
psSAR1g [W/kg]	0.141	0.147
psSAR10g [W/kg]	0.079	0.085
Power Drift [dB]	-0.03	-0.14
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		56.4
Dist 3dB Peak [mm]		16.1





**Meas.67 Body Plane with Back Side 10mm on 6 Channel in IEEE802.11n HT40 mode with Antenna 9**

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distanc e [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversio n Factor	TSL Conductivit y [S/m]	TSL Permittivit y	Ambient Temperatur e [°C]	Liquid Temperatur e [°C]
Flat, HSL	BACK, 10.00	WLAN, 2.4GH z	WLAN, 10193- CAE	2437.0, 6	7.75	1.80	40.1	22.5	21.4

**Hardware Setup**

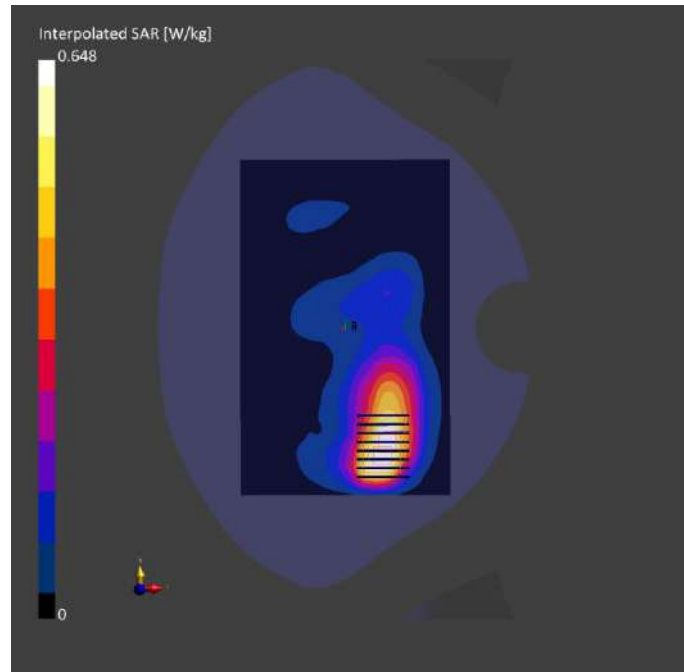
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-19	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**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 Surface	N/A	N/A
Detection	All points	All points
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-10-19	2024-10-19
psSAR1g [W/kg]	0.326	0.349
psSAR10g [W/kg]	0.179	0.190
Power Drift [dB]	0.01	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		47.3
Dist 3dB Peak [mm]		11.2



**Meas.68 Body Plane with Back Side 0mm on 6 Channel in IEEE802.11n HT40 mode with Antenna 9**

**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, 10193-CAE	2437.0, 6	7.75	1.80	40.1	22.5	21.4

**Hardware Setup**

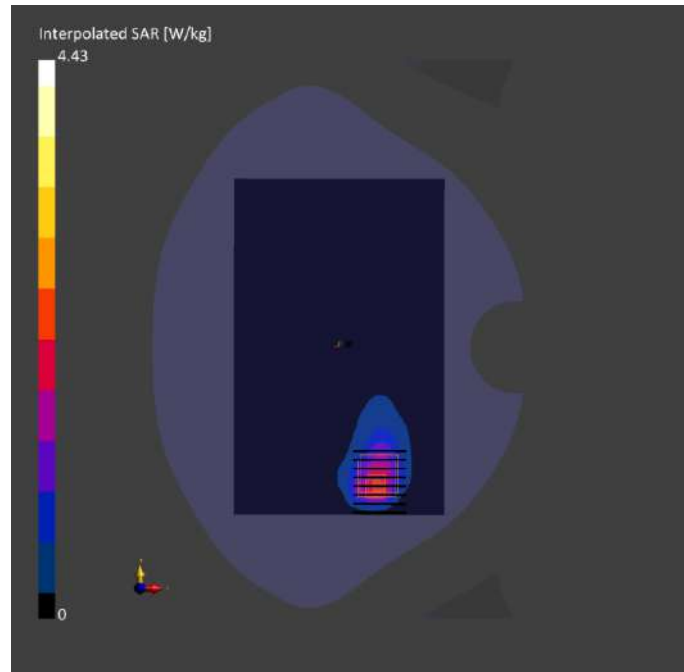
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-19	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**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 Surface	N/A	N/A
Detection	All points	All points
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-10-19	2024-10-19
psSAR1g [W/kg]	1.87	1.78
psSAR10g [W/kg]	0.904	0.865
Power Drift [dB]	0.00	-0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		37.8
Dist 3dB Peak [mm]		6.0



**Meas.69 Left Head with Tilt on 58 Channel in IEEE802.11ac VHT80 mode with Antenna 8**

**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	TILT, 0.00	WLAN, 5GHz	WLAN, 10544-AAD	5290.0, 58	5.50	4.88	35.1	22.7	21.4

**Hardware Setup**

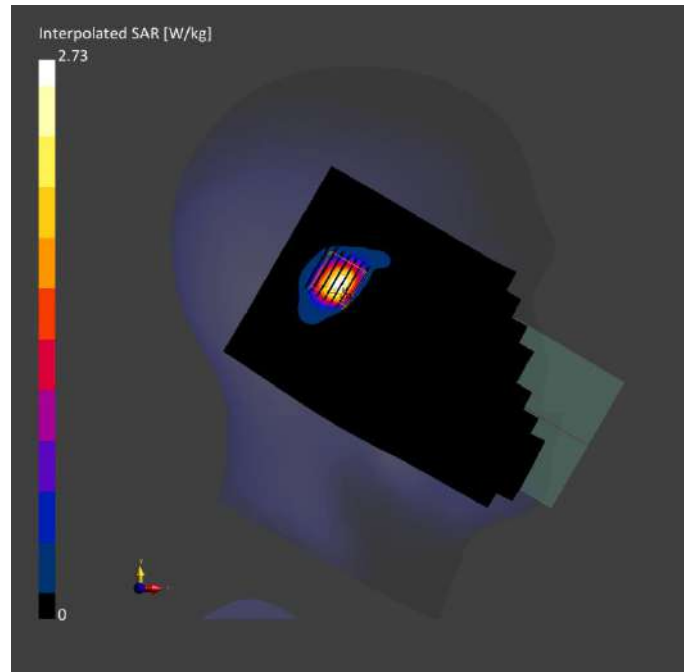
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-11-02	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

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

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-11-02	2024-11-02
psSAR1g [W/kg]	0.510	0.683
psSAR10g [W/kg]	0.169	0.182
Power Drift [dB]	0.12	-0.10
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		52.3
Dist 3dB Peak [mm]		5.6



**Meas.70 Left Head with Tilt on 122 Channel in IEEE802.11ac VHT80 mode with Antenna 8**

**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	TILT, 0.00	WLAN, N	WLAN, 10544-5GHz	5610.0, 122	5.00	5.25	34.2	22.4	21.3

**Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-11-03	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

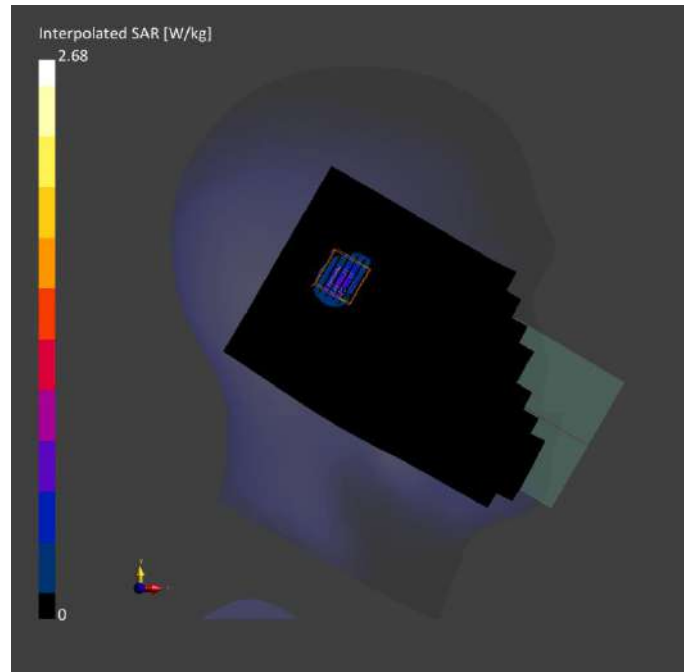
**Scan Setup**

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

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-11-03	2024-11-03
psSAR1g [W/kg]	0.502	0.644
psSAR10g [W/kg]	0.173	0.176
Power Drift [dB]	-0.09	-0.14
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		51.9
Dist 3dB Peak [mm]		5.4





**Meas.71 Left Head with Tilt on 155 Channel in IEEE802.11ac VHT80 mode with Antenna 8**

**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	TILT, 0.00	WLAN, N	WLAN, 10544-5GHz	5775.0, 155	5.04	5.31	34.2	22.8	21.6

**Hardware Setup**

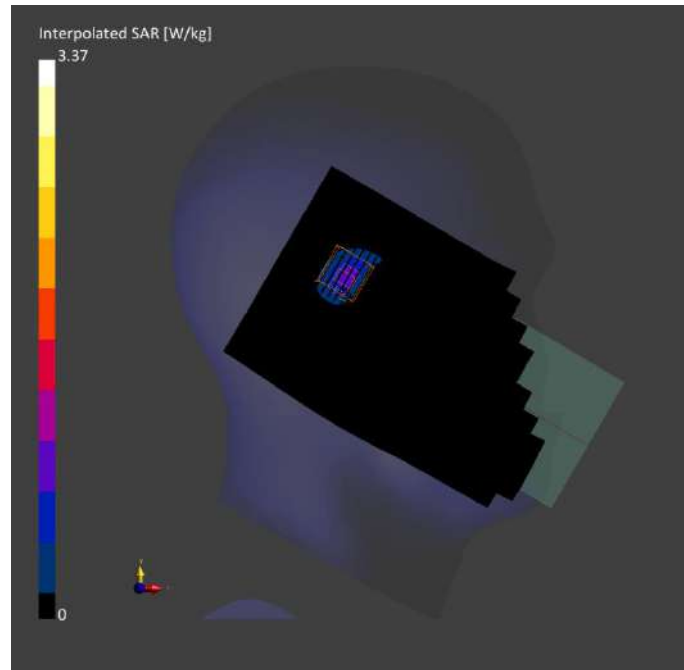
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-11-04	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

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

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-11-04	2024-11-04
psSAR1g [W/kg]	0.688	0.823
psSAR10g [W/kg]	0.231	0.241
Power Drift [dB]	0.06	-0.11
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		52.5
Dist 3dB Peak [mm]		5.6



**Meas.72 Body Plane with Back Side 15mm on 58 Channel in IEEE802.11n HT40 mode with Antenna 8**

**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, 10114-54	5270.0, 54	5.50	4.86	35.1	22.7	21.4
		5GHz	CAG						

**Hardware Setup**

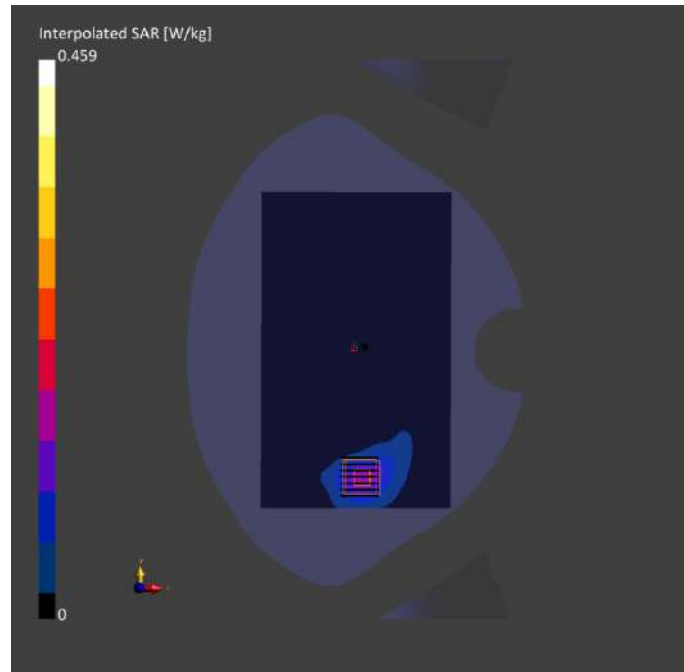
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-11-02	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**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	All points	All points
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-11-02	2024-11-02
psSAR1g [W/kg]	0.131	0.132
psSAR10g [W/kg]	0.052	0.047
Power Drift [dB]	-0.06	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		54.8
Dist 3dB Peak [mm]		10.7



**Meas.73 Body Plane with Back Side 15mm on 118 Channel in IEEE802.11n HT40 mode with Antenna 8 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, 10114-CAG	5590.0, 118	5.00	5.04	35.0	22.4	21.3

**Hardware Setup**

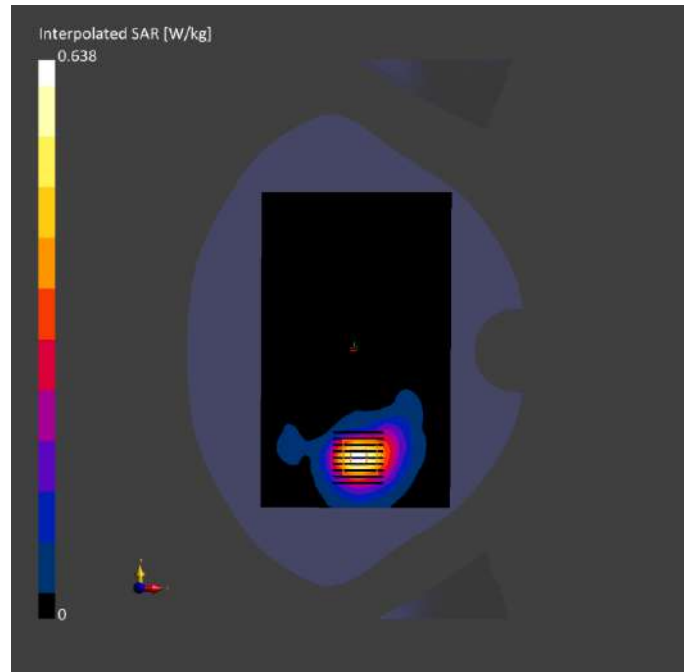
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-11-03	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

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

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-11-03	2024-11-03
psSAR1g [W/kg]	0.174	0.188
psSAR10g [W/kg]	0.069	0.072
Power Drift [dB]	-0.19	0.17
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		53.5
Dist 3dB Peak [mm]		10.4



**Meas.74 Body Plane with Back Side 15mm on 155 Channel in IEEE802.11ac VHT80 mode with Antenna 8**

**Exposure Conditions**

Phantom	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	WLAN, 10544-5GHz AAC	5775.0, 155	5.04	5.31	34.2	22.8	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 2024-11-04	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

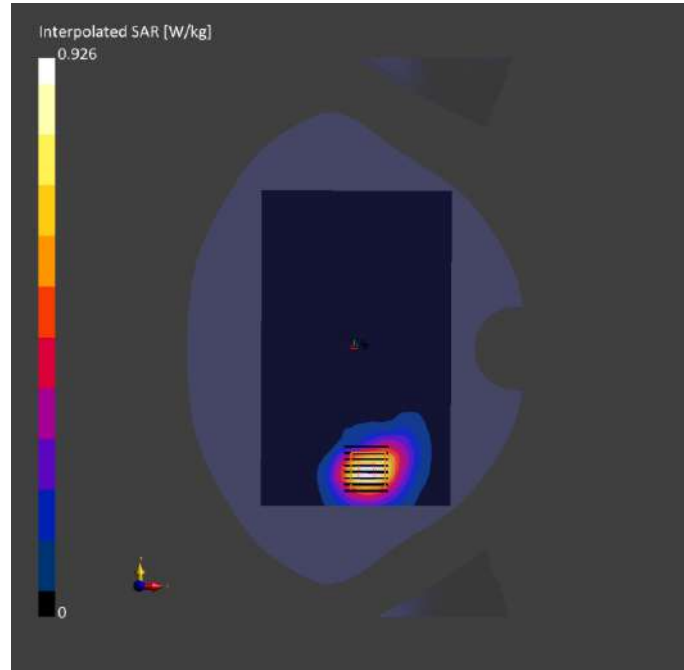
**Scan Setup**

	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	Y	Y
Surface	All points	All points
Detection		
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-11-04	2024-11-04
psSAR1g [W/kg]	0.260	0.256
psSAR10g [W/kg]	0.105	0.099
Power Drift [dB]	0.08	-0.12
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.7
Dist 3dB Peak [mm]		11.2





**Meas.75 Body Plane with Top Edge 10mm on 46 Channel in IEEE802.11n HT40 mode with Antenna 8**

**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, 5GHz	WLAN, 10114-CAG	5230.0, 46	5.74	4.63	36.7	22.7	21.4

**Hardware Setup**

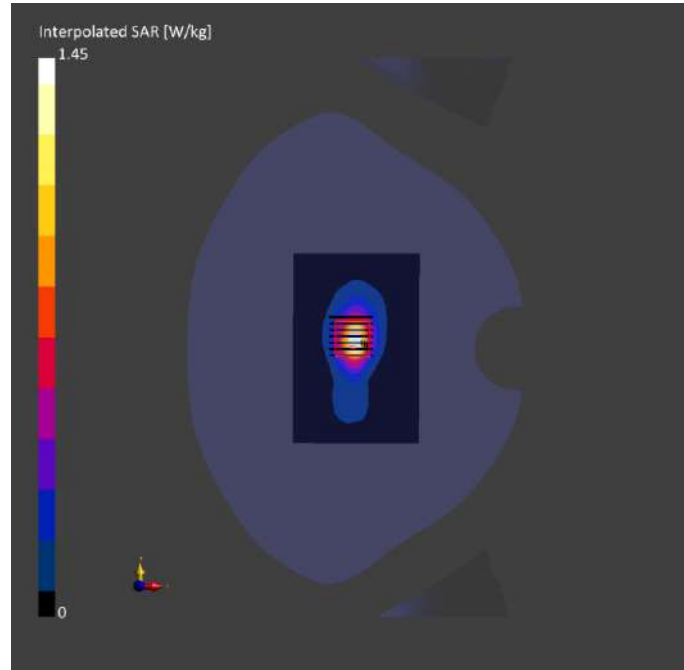
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-11-02	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**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	N/A
Detection	All points	All points
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-11-02	2024-11-02
psSAR1g [W/kg]	0.374	0.404
psSAR10g [W/kg]	0.129	0.132
Power Drift [dB]	0.12	0.10
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		53.1
Dist 3dB Peak [mm]		8.0



**Meas.76 Body Plane with Top Edge 10mm on 155 Channel in IEEE802.11ac VHT80 mode with Antenna 8 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, 5GHz	WLAN, 10544-AAC	5775.0, 155	5.04	5.31	34.2	22.8	21.6

**Hardware Setup**

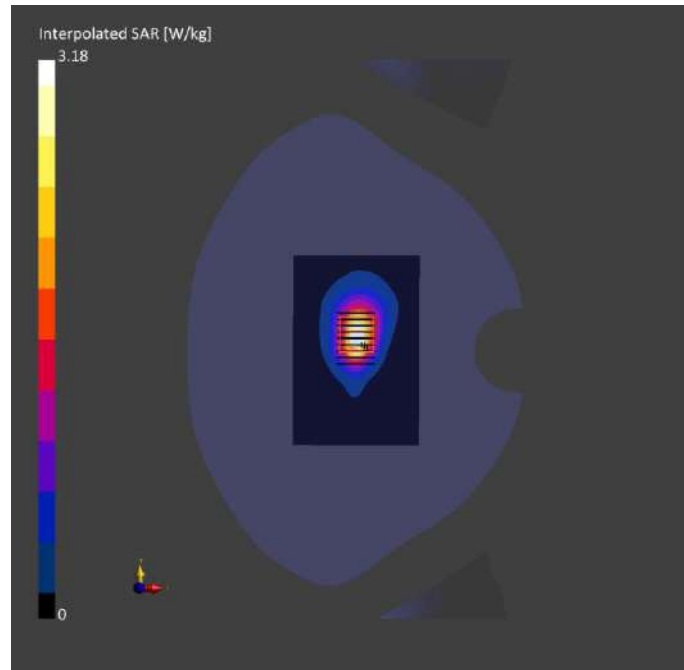
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-11-04	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**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	N/A
Detection	All points	All points
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-11-04	2024-11-04
psSAR1g [W/kg]	0.824	0.844
psSAR10g [W/kg]	0.303	0.305
Power Drift [dB]	0.14	-0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.8
Dist 3dB Peak [mm]		7.6



**Meas.77 Body Plane with Top Edge 0mm on 54 Channel in IEEE802.11n HT40 mode with Antenna 8**

**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	WLAN, N, 5GHz	WLAN, 10114-CAG	5270.0, 54	5.50	4.86	35.1	22.7	21.4

**Hardware Setup**

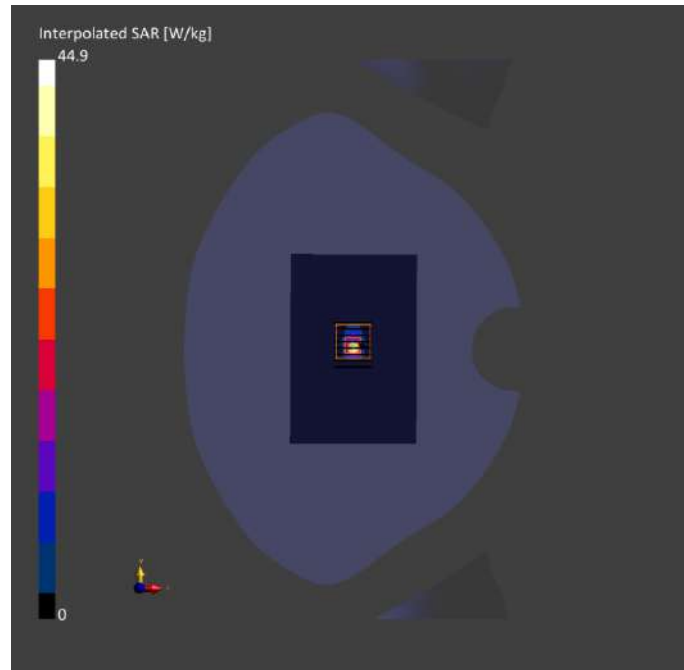
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-11-02	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**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	N/A	N/A
Detection	All points	All points
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-11-02	2024-11-02
psSAR1g [W/kg]	6.77	7.99
psSAR10g [W/kg]	1.23	1.29
Power Drift [dB]	0.03	0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		48.6
Dist 3dB Peak [mm]		3.2



**Meas.78 Body Plane with Top Edge 0mm on 118 Channel in IEEE802.11n HT40 mode with Antenna 8**

**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	WLAN, N, 5GHz	10114-CAG	5590.0, 118	5.00	5.04	35.0	22.4	21.3

**Hardware Setup**

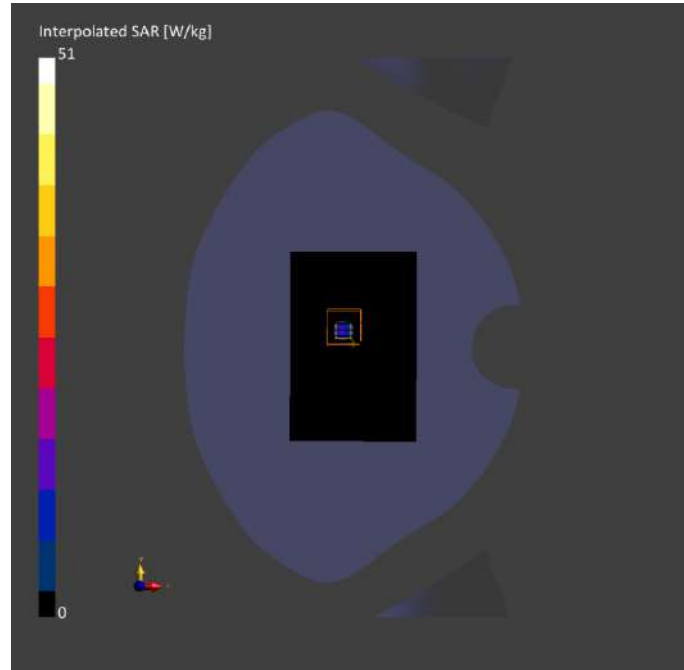
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-11-03	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**Scan Setup**

**Measurement Results**

		Area Scan	Zoom Scan			Area Scan	Zoom Scan
Grid Extents [mm]		80.0 x 120.0	24.0 x 24.0 x 22.0	Date		2024-11-03	2024-11-03
Grid Steps [mm]		8.0 x 10.0	4.0 x 4.0 x 2.0	psSAR1g [W/kg]		6.63	8.80
Sensor Surface [mm]		3.0	1.4	psSAR10g [W/kg]		1.19	1.45
Graded Grid		Yes	Yes	Power Drift [dB]		0.16	0.05
Grading Ratio		1.5	1.4	Power Scaling		Disabled	Disabled
MAIA Surface		N/A	N/A	Scaling Factor [dB]			
Detection		VMS + 6p	VMS + 6p	TSL Correction		No correction	No correction
Scan Method		Measured	Measured	M2/M1 [%]			49.0
				Dist 3dB Peak [mm]			3.2







**Meas.79 Body Plane with Top Edge 0mm on 155 Channel in IEEE802.11ac VHT80 mode with Antenna 8 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	WLAN, N, 5GHz	WLAN, 10544-AAC	5775.0, 155	5.04	5.31	34.2	22.8	21.6

**Hardware Setup**

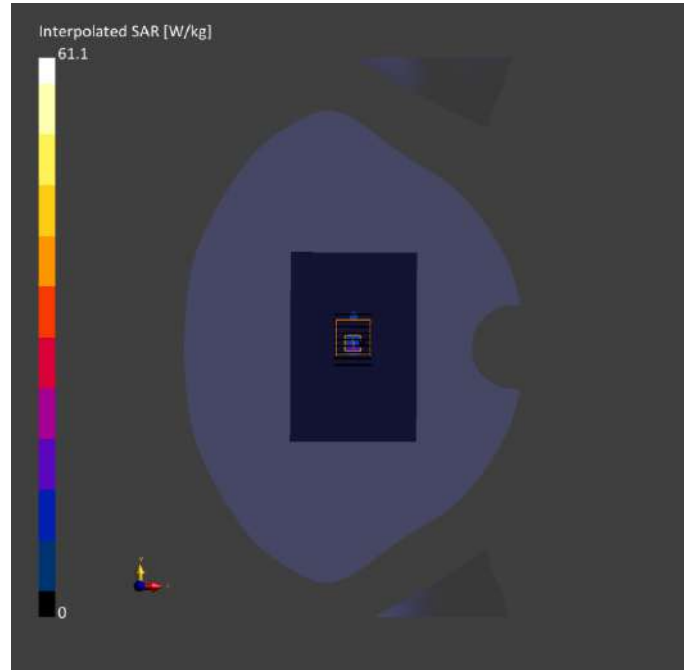
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-11-04	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**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	N/A	N/A
Detection	All points	All points
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-11-04	2024-11-04
psSAR1g [W/kg]	9.07	10.4
psSAR10g [W/kg]	1.73	1.76
Power Drift [dB]	-0.01	0.09
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		45.7
Dist 3dB Peak [mm]		3.2



**Meas.80 Left Head With Cheek on 78 Channel in Bluetooth mode with Antenna 9**

**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	7.75	1.88	38.0	22.6	21.3

**Hardware Setup**

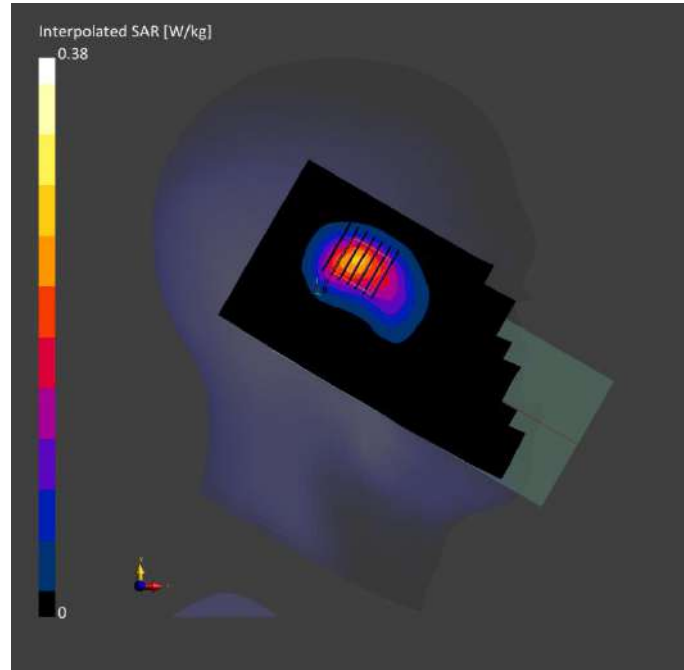
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-20	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**Scan Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 180.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-10-20	2024-10-20
psSAR1g [W/kg]	0.205	0.212
psSAR10g [W/kg]	0.104	0.112
Power Drift [dB]	0.00	0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		52.3
Dist 3dB Peak [mm]		9.9



**Meas.81 Body Plane With Back Side 15mm on 78 Channel in Bluetooth mode with Antenna 9**

**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	7.75	1.88	38.0	22.6	21.3

**Hardware Setup**

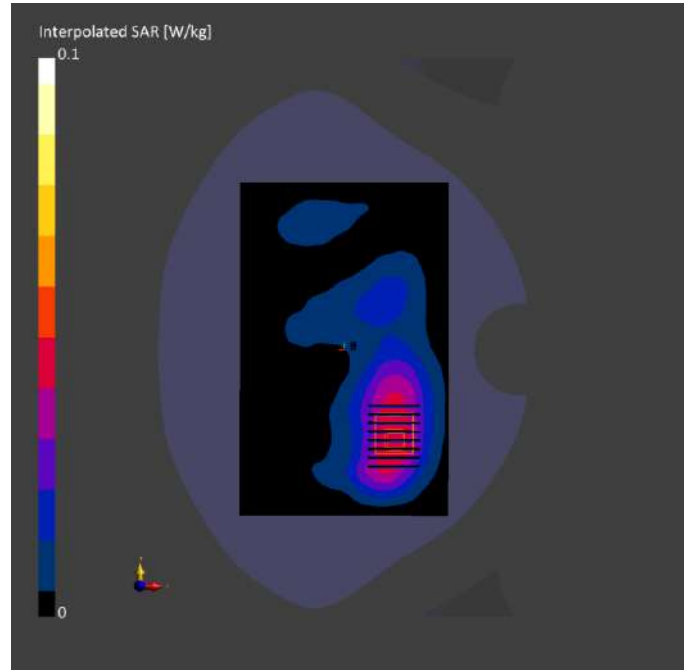
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-20	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**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	2024-10-20	2024-10-20
psSAR1g [W/kg]	0.041	0.043
psSAR10g [W/kg]	0.023	0.025
Power Drift [dB]	-0.15	-0.13
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		53.7
Dist 3dB Peak [mm]		> 15.0





**Meas.82 Body Plane With Back Side 10mm on 78 Channel in Bluetooth mode with Antenna 9**

**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	ISM, 2.4 GHz Band	Bluetooth, 10032-CAA	2480.0, 78	7.75	1.88	38.0	22.6	21.3

**Hardware Setup**

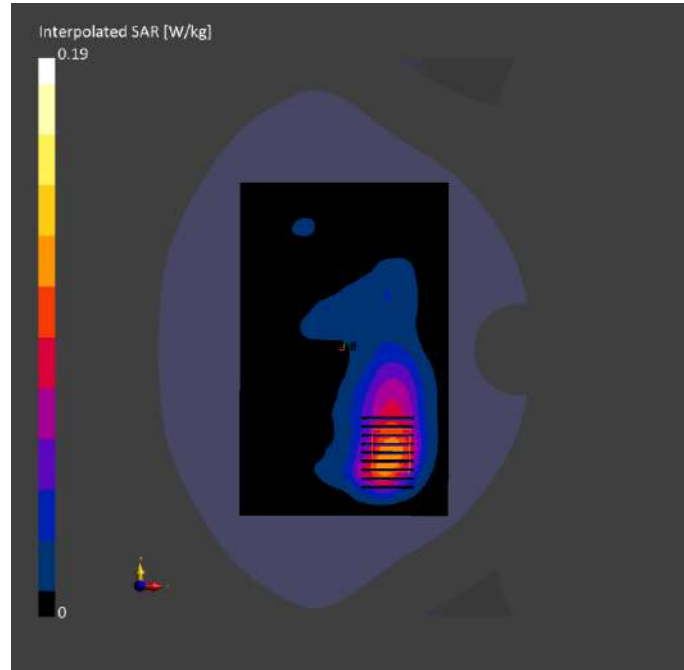
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-20	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**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	2024-10-20	2024-10-20
psSAR1g [W/kg]	0.103	0.107
psSAR10g [W/kg]	0.056	0.057
Power Drift [dB]	0.00	-0.17
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		53.2
Dist 3dB Peak [mm]		14.9



**Meas.83 Body Plane With Back Side 0mm on 78 Channel in Bluetooth mode with Antenna 9**

**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	7.75	1.88	38.0	22.6	21.3

**Hardware Setup**

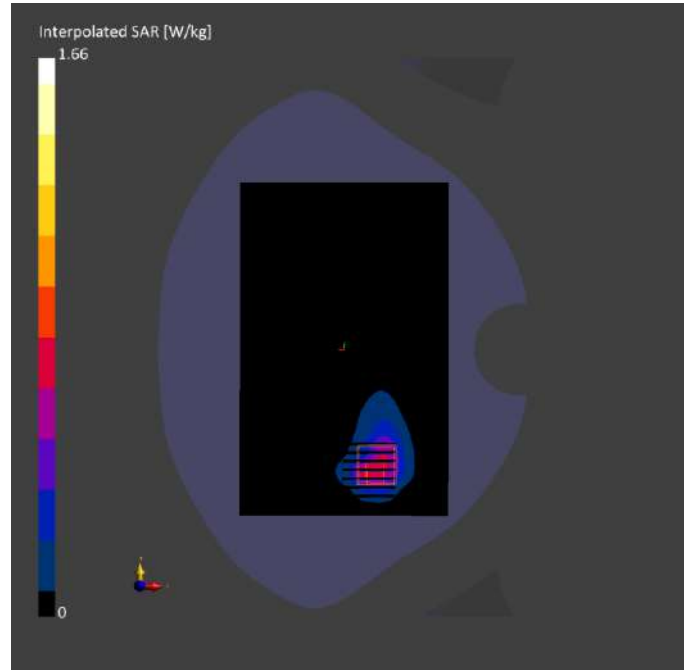
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-10-20	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

**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		
Scan Method	Measured	Measured

**Measurement Results**

	Area Scan	Zoom Scan
Date	2024-10-20	2024-10-20
psSAR1g [W/kg]	0.639	0.633
psSAR10g [W/kg]	0.315	0.282
Power Drift [dB]	-0.05	-0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		33.9
Dist 3dB Peak [mm]		6.3



## **ANNEX D EUT EXTERNAL PHOTOS**

Please refer the document "BL-SZ2491182-AW.pdf".

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

Please refer the document "BL-SZ2491182-AS.pdf".

## **ANNEX F CALIBRATION REPORT**

Please refer the document "BL-SZ2491182-AC.pdf".

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