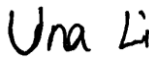
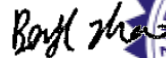


SAR TEST REPORT

FCC ID. :	HLEEA630PBWNW	
Test Report No..... :	TCT220824E006	
Date of issue..... :	Oct. 13, 2022	
Testing laboratory	SHENZHEN TONGCE TESTING LAB	
Testing location/ address:	2101 & 2201, Zhenchang Factory Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China	
Applicant's name..... :	Unitech Electronics Co., Ltd.	
Address..... :	5F, No. 136, Lane 235, Pao-Chiao Rd., Hsin-Tien Dist., New Taipei City, Taiwan	
Manufacturer's name ... :	Unitech Electronics Co., Ltd.	
Address..... :	5F, No. 136, Lane 235, Pao-Chiao Rd., Hsin-Tien Dist., New Taipei City, Taiwan	
Product Name..... :	Rugged Handheld Computer	
Trade Mark	unitech	
Model/Type reference..... :	EA630 Plus	
SAR Max. Values.....:	0.28 W/Kg (1g) for head; 0.75 W/Kg (1g) for Body-worn; 0.59 W/Kg (1g) for Hotspot	
Date of receipt of test item	Aug. 24, 2022	
Date (s) of performance of test..... :	Aug. 24, 2022 - Oct. 13, 2022	
Tested by (+signature) ... :	Una Li	
Check by (+signature).... :	Beryl Zhao	
Approved by (+signature):	Tomsin	

General disclaimer:

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1. General Product Information

1.1. EUT description

Test item description.....:	Rugged Handheld Computer
Model/Type reference.....:	EA630 Plus
Rating(s).....:	Rechargeable Li-ion Battery DC3.85V
2G	
Operation Band.....:	GSM850, GSM1900
Supported type.....:	GSM/GPRS/EGPRS
Power Class.....:	GSM850:Power Class 5; GSM1900:Power Class 0
Modulation Type.....:	GMSK for GSM/GPRS; 8QPSK for EGPRS
GSM Release Version.....:	R99
GPRS Multislot Class.....:	12
EGPRS Multislot Class.....:	12
3G	
Operation Band.....:	FDD Band II & FDD Band V
Power Class.....:	Power Class 3
Modulation Type.....:	QPSK for WCDMA/HSDPA/HSUPA
WCDMA Release Version.....:	R99
HSDPA Release Version.....:	Release 5
HSUPA Release Version.....:	Release 6
DC-HSUPA Release Version.....:	Not Supported
LTE	
Operation Band.....:	LTE Band 2 & LTE Band 4 & LTE Band 5 & LTE Band 7 & LTE Band 12 & LTE Band 17 & LTE Band 41
Power Class.....:	Power Class 3
Modulation Type.....:	QPSK &16-QAM for LTE
Wi-Fi 2.4G	
Supported type.....:	802.11b/802.11g/802.11n
Modulation Type.....:	802.11b: DSSS 802.11g/802.11n:OFDM
Operation Frequency.....:	802.11b/802.11g/802.11n(HT20):2412MHz~2462MHz; 802.11n(HT40):2422MHz~2452MHz
Channel number.....:	802.11b/802.11g/802.11n(HT20):11; 802.11n(HT40):7
Channel separation.....:	5MHz

Bluetooth	
Bluetooth Version.....:	Supported 5.0
Modulation.....:	GFSK(1Mbps) , $\pi/4$ -DQPSK(2Mbps) , 8-DPSK(3Mbps)
Operation Frequency.....:	2402MHz~2480MHz
Channel number.....:	79/40
Channel separation.....:	1MHz/2MHz
Wi-Fi 5G	
Operation Frequency:	Band 1: 5180 MHz -5240 MHz Band 2A: 5260 MHz -5320 MHz Band 3: 5745 MHz -5825 MHz
Channel Bandwidth:	802.11a: 20MHz 802.11n: 20MHz, 40MHz 802.11ac: 20MHz, 40MHz, 80MHz
Modulation Technology:	Orthogonal Frequency Division Multiplexing(OFDM)
Modulation Type	256QAM, 64QAM, 16QAM, BPSK, QPSK

1.2. Model(s) list

No.	Model No.	Tested with
1	EA630 Plus	☒

Note: LT60H is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names.

2. Test standard

The tests were performed according to following standards:

FCC 47 CFR §2.1093

BS IEC-IEEE 62209-1528-2020: Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices

KDB447498 D01:General RF Exposure Guidance v06

KDB865664 D01:SAR measurement 100MHz to 6GHz v01r04

KDB865664 D02:RF Exposure Reporting v01r02.

KDB941225 D01:3G SAR Procedures v03r01

KDB248227 D01:802.11 wi-fi SAR v02r02

KDB941225 D05:SAR for LTE devices v02r05

KDB941225 D06:Hotspot Mode v02r01

KDB941225 D07:UMPC Mini Tablet v01r02

KDB690783 D01:SAR Listings on Grant v01r03

3. Facilities and Accreditations

3.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

- FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC - Registration No.: 10668A-1

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

3.2. Location

SHENZHEN TONGCE TESTING LAB.

Address: 2101 & 2201, Zhenchang Factory Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China

3.3. Environment Condition:

Temperature:	18°C ~25°C
Humidity:	35%~75% RH
Atmospheric Pressure:	1011 mbar

4. Test Result Summary

The maximum results of Specific Absorption Rate (SAR) found during test as bellows:

<Highest Reported standalone SAR Summary>

Highest Reported Standards SAR Summary				
Exposure Position	Frequency Band	Reported SAR (W/kg)	Equipment Class	Highest Reported SAR (W/kg)
Head 1-g SAR	GSM 850	0.17	PCE	0.28
	GSM 1900	0.24		
	WCDMA Band II	0.24		
	WCDMA Band V	0.09		
	LTE Band 2	0.28		
	LTE Band 4	0.18		
	LTE Band 5	0.14		
	LTE Band 7	0.12		
	LTE Band 12	0.11		
	LTE Band 17	0.12		
	LTE Band 41	0.22		
	WLAN 2.4 GHz	0.24	DTS	
	BT	0.08	DSS	
	WLAN 5.2 GHz	0.23	NII	
	WLAN 5.3 GHz	0.20		
	WLAN 5.8 GHz	0.26		
Body-worn 1-g SAR (10 mm Gap)	GSM 850	0.53	PCE	0.75
	GSM 1900	0.16		
	WCDMA Band II	0.41		
	WCDMA Band V	0.16		
	LTE Band 2	0.28		
	LTE Band 4	0.17		
	LTE Band 5	0.17		
	LTE Band 7	0.53		
	LTE Band 12	0.21		
	LTE Band 17	0.20		
	LTE Band 41	0.75		
	WLAN 2.4 GHz	0.27	DTS	
	BT	0.05	DSS	
	WLAN 5.2 GHz	0.19	NII	
	WLAN 5.3 GHz	0.16		
	WLAN 5.8 GHz	0.21		

Hotspot 1-g SAR (10 mm Gap)	GSM 850	0.24	PCE	0.59
	GSM 1900	0.21		
	WCDMA Band II	0.14		
	WCDMA Band V	0.16		
	LTE Band 2	0.30		
	LTE Band 4	0.27		
	LTE Band 5	0.16		
	LTE Band 7	0.47		
	LTE Band 12	0.23		
	LTE Band 17	0.19		
	LTE Band 41	0.59		
	WLAN 2.4 GHz	0.32	DTS	

<Highest Reported simultaneous SAR Summary>

Exposure Position	Frequency Band	Highest Reported Simultaneous Transmission SAR (W/kg)
Head 1-g SAR	LTE Band II + WIFI 2.4G	0.52
Body 1-g SAR (10 mm Gap)	LTE Band 41 + WIFI 2.4G	1.02
Hotspot 1-g SAR (10 mm Gap)	LTE Band 41 + WIFI 2.4G	0.91

Note:

1. The highest simultaneous transmission is scalar summation of Reported standalone SAR per FCC KDB 690783 D01 v01r03, and scalar SAR summation of all possible simultaneous transmission scenarios are < 1.6W/kg.
2. This device is compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-2005, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013.
3. This EUT owns four cards, after we perform the pretest for these two SIM card; we found the SIM 1 is the worst case, so its result is recorded in this report.

5. RF Exposure Limit

Type Exposure	SAR (W/kg)
	Uncontrolled Exposure Limit
Spatial Peak SAR (averaged over any 1 g of tissue)	1.60
Spatial Peak SAR (hands/wrists/feet/ankles averaged over 10g)	4.00
Spatial Peak SAR (averaged over the whole body)	0.08
Note: 1. The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time. 2. The Spatial Average value of the SAR averaged over the whole body. 3. The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.	

6. SAR Measurement System Configuration

6.1. SAR Measurement Set-up

The OPENSAR system for performing compliance tests consist of the following items:

A standard high precision 6-axis robot (KUKA) with controller and software.

KUKA Control Panel (KCP)

A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with a Video Positioning System (VPS).

The stress sensor is composed with mechanical and electronic when the electronic part detects a change on the electro-mechanical switch; it sends an “Emergency signal” to the robot controller that to stop robot’s moves A computer operating Windows XP.

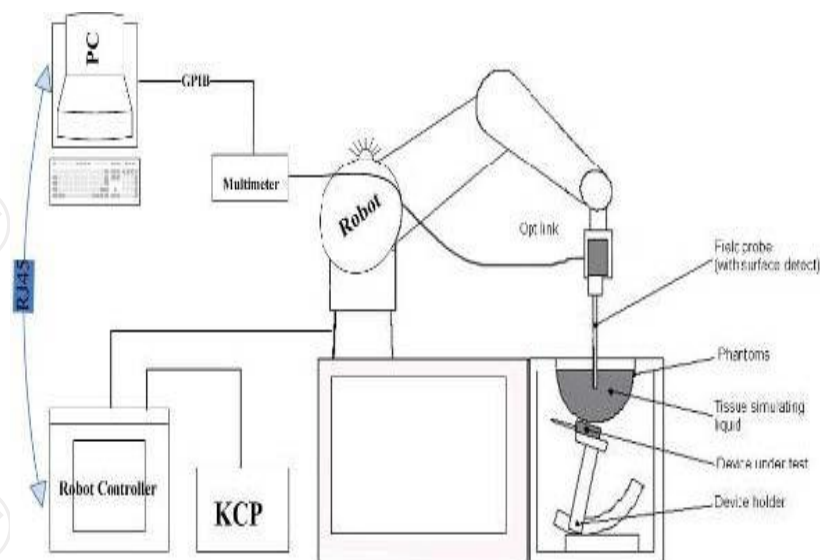
OPENSAR software Remote control with teaches pendant and additional circuitry for robot safety such as warning lamps, etc.

The SAM phantom enabling testing left-hand right-hand and body usage.

The Position device for handheld EUT

Tissue simulating liquid mixed according to the given recipes.

System validation dipoles to validate the proper functioning of the system.



KUKA SAR Test Sysytem Configuration

6.2. E-field Probe

The SAR measurement is conducted with the dosimetric probe (manufactured by MVG). The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. This probe has a built in optical surface detection system to prevent from collision with phantom.

Probe Specification

Construction Symmetrical design with triangular core
Interleaved sensors
Built-in shielding against static charges
PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration ISO/IEC 17025 calibration service available.

Device Type	COMOSAR DOSIMETRIC E FIELD PROBE
Manufacturer	MVG
Model	SSE2
Serial Number	SN 36/20 EPG0346
Frequency Range of Probe	0.15 GHz- 6GHz
Resistance of Three Dipoles at Connector	Dipole 1:R1=0.217MΩ Dipole 2:R3=0.245MΩ Dipole 3:R3=0.219MΩ

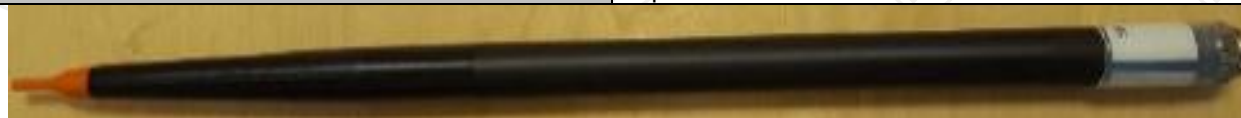


Photo of E-Field Probe

6.3. Phantom

The SAM Phantom SAM120 is constructed of a fiberglass shell integrated in a wooden table. The shape of the shell is in compliance with the specification set in IEEE P1528 and CENELEC IEC 62209-1, IEC 62209-2:2010.

The phantom enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region.

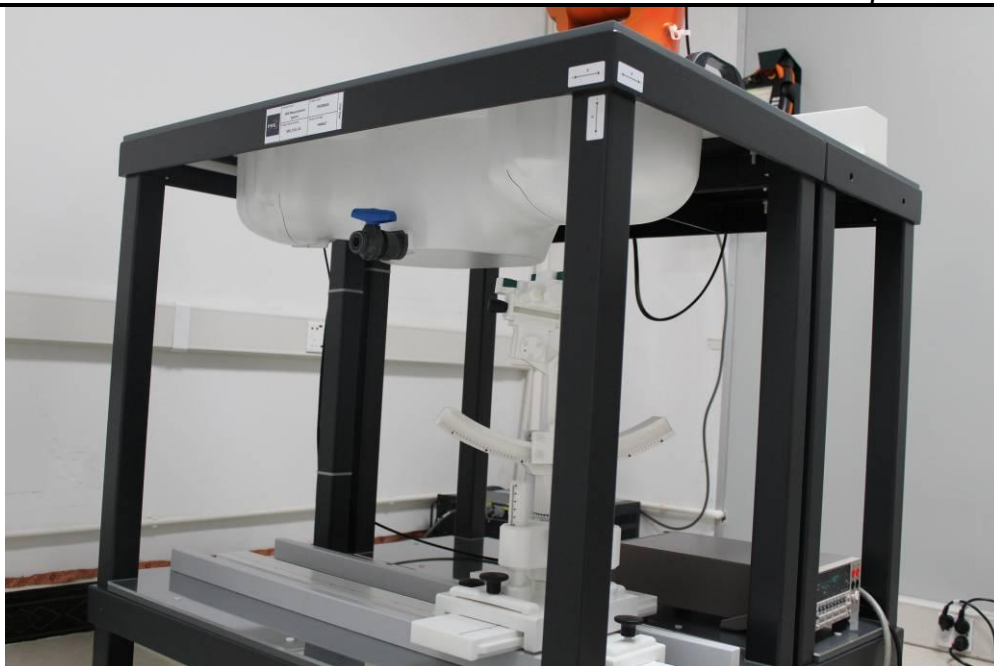
A cover prevents the evaporation of the liquid.

Reference markings on the Phantom allow the complete setup of all predefined phantom positions and measurement grids by manually teaching three points in the robot

System checking was performed using the flat section, whilst Head SAR tests used the left and right head profile sections.

Body SAR testing also used the flat section between the head profiles.

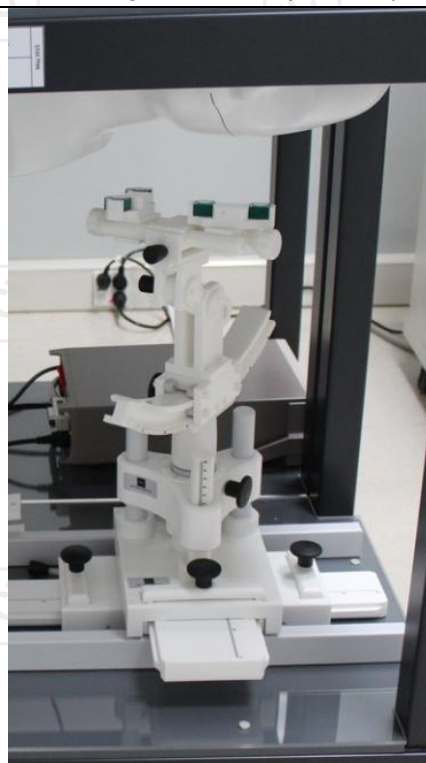
Name: COMOSAR IEEE SAM PHANTOM
S/N: SN 19/15 SAM 120
Manufacture: MVG

**SAM Twin Phantom**

6.4. Device Holder

In combination with the Generic Twin Phantom SAM120, the Mounting Device enables the rotation of the mounted transmitter in spherical coordinates whereby the rotation points is the ear opening. The devices can be easily, accurately, and repeatedly positioned according to the FCC and CENELEC specifications.

The device holder can be locked at different phantom locations (left head, right head, flat phantom).

**COMOSAR Mobile
phone positioning
system**

6.5. Data Storage and Evaluation

Data Storage

The OPENSAR software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files. The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be re-evaluated.

The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [mW/g], [mW/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

Data Evaluation

The OPENSAR software automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software:

Probe parameters:	- Sensitivity	Normi, ai0, ai1, ai2
	- Conversion factor	ConvFi
	- Diode compression point	Dcpi
Device parameters:	- Frequency	f
	- Crest factor	cf
Media parameters:	- Conductivity	σ
	- Density	ρ

These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the OPENSAR components. In the direct measuring mode of the millimeter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics. If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot c \cdot f / d \cdot c \cdot p_i$$

With	V_i	= compensated signal of channel i	(i = x, y, z)
	U_i	= input signal of channel i	(i = x, y, z)
	cf	= crest factor of exciting field	(MVG parameter)
	dcpi	= diode compression point	(MVG parameter)

From the compensated input signals the primary field data for each channel can be evaluated:

$$\text{E-field probes: } E_i = (V_i / \text{Normi} \cdot \text{ConvF})^{1/2}$$

$$\text{H-field probes: } H_i = (V_i)^{1/2} \cdot (ai0 + ai1 \cdot f + ai2 \cdot f^2) / f$$

With	V_i	= compensated signal of channel i	(i = x, y, z)
	Normi	= sensor sensitivity of channel i	(i = x, y, z)
		[mV/(V/m)²] for E-field Probes	
	ConvF	= sensitivity enhancement in solution	
	aij	= sensor sensitivity factors for H-field probes	
	f	= carrier frequency [GHz]	
	E_i	= electric field strength of channel i in V/m	
	H_i	= magnetic field strength of channel i in A/m	

The RSS value of the field components gives the total field strength (Hermitian magnitude):

$$E_{tot} = (E_x^2 + E_y^2 + E_z^2)^{1/2}$$

The primary field data are used to calculate the derived field units.

$$SAR = (E_{tot})^2 \cdot \sigma / (\rho \cdot 1000)$$

with SAR = local specific absorption rate in mW/g
 E_{tot} = total field strength in V/m
 σ = conductivity in [mho/m] or [Siemens/m]
 ρ = equivalent tissue density in g/cm³

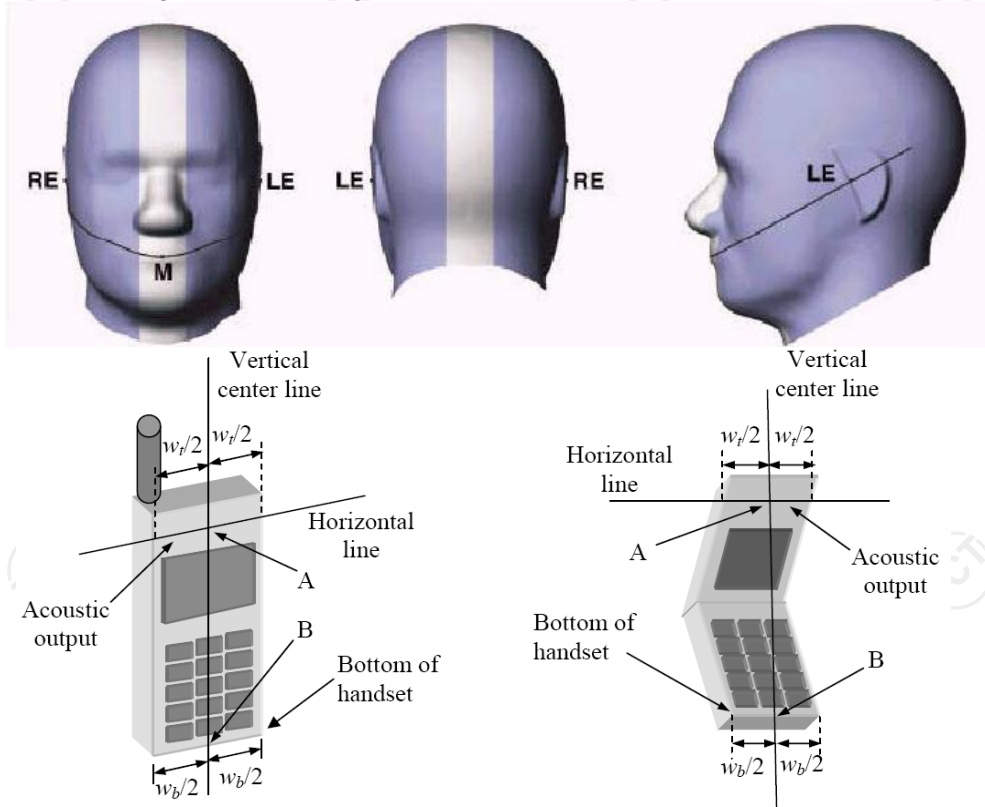
Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid. The power flow density is calculated assuming the excitation field to be a free space field.

6.6. Position of the wireless device in relation to the phantom

Handset Reference Points

$$P_{pwe} = E_{tot}^2 / 3770 \text{ or } P_{pwe} = H_{tot}^2 \cdot 37.7$$

With P_{pwe} = equivalent power density of a plane wave in mW/cm²
 E_{tot} = total electric field strength in V/m
 H_{tot} = total magnetic field strength in A/m

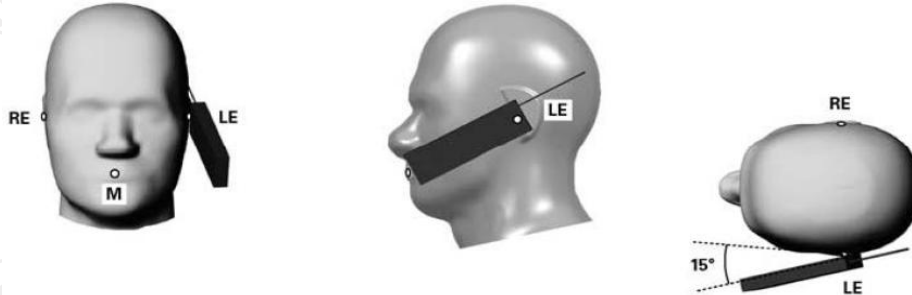


W_t Width of the handset at the level of the acoustic
 W_b Width of the bottom of the handset
A Midpoint of the width w_t of the handset at the level of the acoustic output
B Midpoint of the width w_b of the bottom of the handset

Positioning for Cheek / Touch



Positioning for Ear / 15° Tilt



Body Worn Accessory Configurations

To position the device parallel to the phantom surface with either keypad up or down.

To adjust the device parallel to the flat phantom.

To adjust the distance between the device surface and the flat phantom to 15mm or holster surface and the flat phantom to 0 mm.

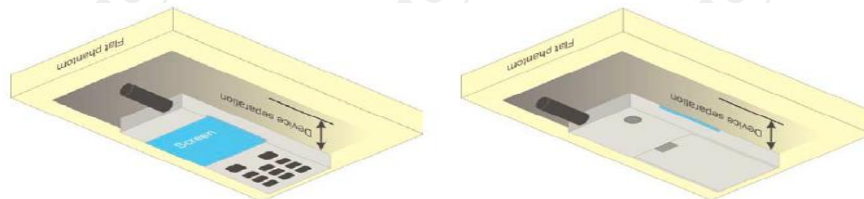


Illustration for Body Worn Position

Wireless Router (Hotspot) Configurations

Some battery-operated handsets have the capability to transmit and receive internet connectivity through simultaneous transmission of WIFI in conjunction with a separate licensed transmitter. The FCC has provided guidance in KDB Publication 941225 D06 where SAR test considerations for handsets ($L \times W \geq$

9 cm x 5 cm) are based on a composite test separation distance of 10 mm from the front, back and edges of the device with antennas 2.5 cm or closer to the edge of the device, determined from general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WIFI transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions. Therefore, SAR must be evaluated for each frequency transmission and mode separately and summed with the WIFI transmitter according to KDB 648474 publication procedures. The "Portable Hotspot" feature on the handset was NOT activated, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal.

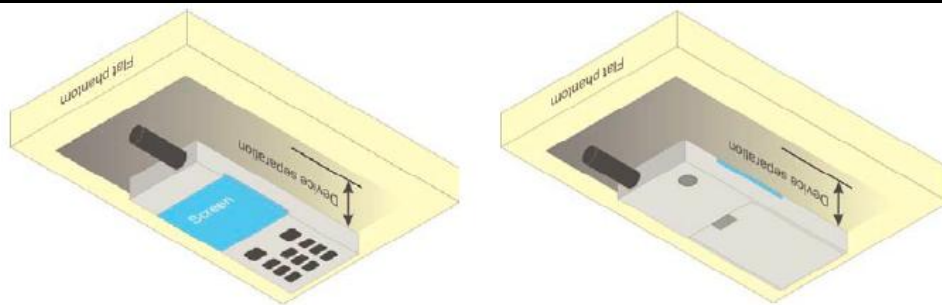
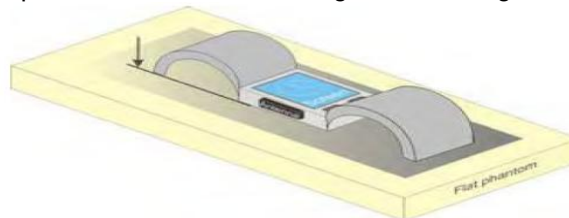


Illustration for Hotspot Position

Limb-worn device

A limb-worn device is a unit whose intended use includes being strapped to the arm or leg of the user while transmitting (except in idle mode). It is similar to a body-worn device. Therefore, the test positions of 6.1.4.4 also apply. The strap shall be opened so that it is divided into two parts as shown in Figure 9. The device shall be positioned directly against the phantom surface with the strap straightened as much as possible and the back of the device towards the phantom.

If the strap cannot normally be opened to allow placing in direct contact with the phantom surface, it may be necessary to break the strap of the device but ensuring to not damage the antenna.



Test position for limb-worn devices

6.7. Tissue Dielectric Parameters

The liquid used for the frequency range of 100MHz-6G consisted of water, sugar, salt and Cellulose. The liquid has been previously proven to be suited for worst-case. The following Table shows the detail solution. It's satisfying the latest tissue dielectric parameters requirements proposed by the IEEE 1528 and IEC 62209.

The simulating liquids should be checked at the beginning of a series of SAR measurements to determine of the determine of the dielectric parameter are within the tolerances of the specified target values. The measured conductivity and relative permittivity should be within $\pm 5\%$ of the target values.

The following materials are used for producing the tissue-equivalent materials

Targets for tissue simulating liquid

Frequency (MHz)	Liquid Type	Liquid Type (σ)	$\pm 5\%$ Range	Permittivity (ϵ)	$\pm 5\%$ Range
300	Head	0.87	0.83~0.91	45.3	43.04~47.57
450	Head	0.87	0.83~0.91	43.5	41.33~45.68
835	Head	0.90	0.86~0.95	41.5	39.43~43.58
900	Head	0.97	0.92~1.02	41.5	39.43~43.58
1800-2000	Head	1.40	1.33~1.47	40.0	38.00~42.00
2450	Head	1.80	1.71~1.89	39.2	37.24~41.16
2600	Head	1.96	1.86~2.06	39.0	37.05~40.95
3000	Head	2.40	2.28~2.52	38.5	36.58~40.43
5800	Head	5.27	5.01~5.53	35.3	33.54~37.07
300	Body	0.92	0.87~0.97	58.2	55.29~61.11
450	Body	0.94	0.89~0.99	56.7	53.87~59.54
835	Body	0.97	0.92~1.02	55.2	52.44~57.96
900	Body	1.05	1.00~1.10	55.0	52.25~57.75
1800-2000	Body	1.52	1.44~1.60	53.3	50.64~55.97
2450	Body	1.95	1.85~2.05	52.7	50.07~55.34
2600	Body	2.16	2.05~2.27	52.5	49.88~55.13
3000	Body	2.73	2.60~2.87	52.0	49.40~54.60
5800	Body	6.00	5.70~6.30	48.2	45.79~50.61

(ϵ_r = relative permittivity, σ = conductivity and $\rho = 1000 \text{ kg/m}^3$)

6.8. Tissue-equivalent Liquid Properties

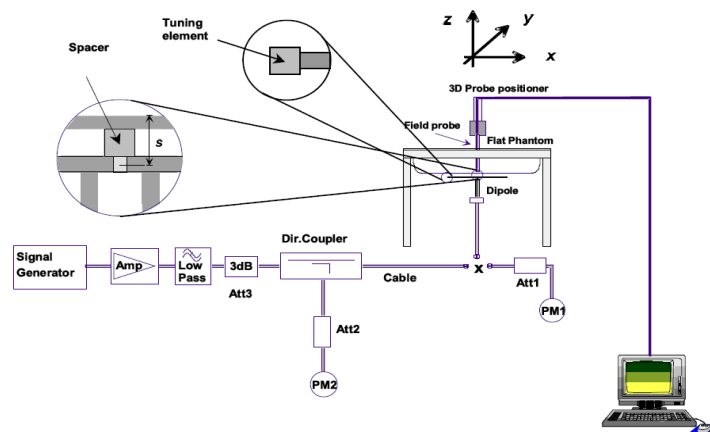
Test Date dd/mm/yy	Temp °C	Tissue Type	Measured Frequency (MHz)	ϵ_r	σ (s/m)	Dev ϵ_r (%)	Dev σ (%)
08/30/2022	22°C	750H	750	41.90	0.89	2.63	-1.12
09/05/2022	22°C	835H	825	41.43	0.86	-0.17	-4.44
			835	41.42	0.87	-0.19	-3.33
			850	40.39	0.88	-2.67	-2.22
09/08/2022	22°C	1800H	1710	39.11	1.34	-2.23	-4.29
			1720	39.10	1.35	-2.25	-3.57
			1750	39.08	1.37	-2.30	-2.14
			1800	39.07	1.38	-2.33	-1.43
09/13/2022	22°C	1900H	1850	39.11	1.34	-2.23	-4.29
			1880	39.10	1.35	-2.25	-3.57
			1900	39.08	1.37	-2.30	-2.14
			1910	39.07	1.38	-2.33	-1.43
09/16/2022	22°C	2450H	2410	37.84	1.79	-3.47	-0.56
			2435	37.85	1.81	-3.44	0.56
			2450	37.82	1.83	-3.52	1.67
			2460	37.80	1.84	-3.57	2.22
09/19/2022	22°C	2600H	20850	38.86	1.93	-0.36	-1.53
			21100	38.85	1.92	-0.39	-2.04
			21350	38.89	1.90	-0.28	-3.06
09/21/2022	22°C	5200H	5200	36.68	4.45	-3.32	-4.04
09/23/2022	22°C	5300H	5300	36.08	4.69	2.16	-4.48
09/29/2022	22°C	5800H	5800	34.81	5.08	-3.49	-4.14

6.9. System Check

The SAR system must be validated against its performance specifications before it is deployed. When SAR probe and system component or software are changed, upgraded or recalibrated, these must be validated with the SAR system(s) that operates with such component. Reference dipoles are used with the required tissue-equivalent media for system validation.

System check results have to be equal or near the values determined during dipole calibration with the relevant liquids and test system ($\pm 10\%$).

System check is performed regularly on all frequency bands where tests are performed with the OPENSAR system.



System Check Set-up

Verification Results

Frequency (MHz)	Liquid Type	Measured Value in 100mW (W/kg)		Normalized to 1W (W/kg)		Target Value (W/kg)		Deviation (%)	
		1 g Average	10 g Average	1 g Average	10 g Average	1 g Average	10 g Average	1 g Average	10 g Average
750	Head	0.80	0.56	8.00	5.60	8.31	5.71	-3.73	-1.93
835	Head	0.89	0.57	8.90	5.70	9.53	6.12	-6.61	-6.86
1800	Head	3.75	2.20	37.53	21.98	37.67	20.23	-0.37	8.65
1900	Head	3.58	1.90	35.80	19.00	39.26	20.49	-8.81	-7.27
2450	Head	4.99	2.36	49.90	23.60	53.26	24.15	-6.31	-2.28
2600	Head	5.41	2.43	54.14	24.30	54.31	24.14	-0.31	0.66
5200	Head	5.01	15.90	50.10	159.00	51.70	161.10	-3.09	-1.30
5300	Head	5.92	17.22	59.20	172.20	59.16	166.40	6.76	3.49
5800	Head	5.25	18.20	52.50	182.00	51.40	181.10	2.14	0.33

Comparing to the original SAR value provided by MVG, the verification data should be within its specification of 10%. Below table shows the target SAR and measured SAR after normalized to 1W input power. The table as below indicates the system performance check can meet the variation criterion and the plots can be referred to Section 10 of this report.

7. Measurement Procedure

Conducted power measurement

For WWAN power measurement, use base station simulator to configure EUT WWAN transition in conducted connection with RF cable, at maximum power in each supported wireless interface and frequency band.

Read the WWAN RF power level from the base station simulator.

For WLAN/BT power measurement, use engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power in each supported wireless interface and frequency band.

Connect EUT RF port through RF cable to the power meter or spectrum analyser, and measure WLAN/BT output power.

Conducted power measurement

Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power, in the highest power channel.

Place the EUT in positions as Appendix B demonstrates.

Set scan area, grid size and other setting on the MVG software.

Measure SAR results for the highest power channel on each testing position.

Find out the largest SAR result on these testing positions of each band.

Measure SAR results for other channels in worst SAR testing position if the Reported SAR or highest power channel is larger than 0.8 W/kg.

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

Power reference measurement

Area scan

Zoom scan

Power drift measurement

Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The MVG software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine (SEMCAD). The system always gives the maximum values for 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

Extraction of the measured data (grid and values) from the Zoom Scan.

Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters).

Generation of a high-resolution mesh within the measured volume.

Interpolation of all measured values from the measurement grid to the high-resolution grid

Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface

Calculation of the averaged SAR within masses of 1g and 10g.

Power Reference Measurement

The Power Reference Measurement and Power Drift Measurement are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties

Area & Zoom Scan Procedures

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 10g. Area scan and zoom scan resolution setting follows KDB 865664 D01v01r03 quoted below.

			≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			5 mm $\pm$ 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2)$ mm $\pm$ 0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location			$30^{\circ} \pm 1^{\circ}$	$20^{\circ} \pm 1^{\circ}$
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
			When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be $\leq$ 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: Δx_{Zoom} , Δy_{Zoom}			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{Zoom}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{Zoom}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$ 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: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see IEEE Std 1528-2013 for details.				
* When zoom scan is required and the <u>reported</u> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB Publication 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

Volume Scan Procedures

The volume scan is used for assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing. When all volume scan were completed, the software, SEMCAD post-processor scan combine and subsequently superpose these measurement data to calculating the multiband SAR.

SAR Averaged Methods

In MVG, the interpolation and extrapolation are both based on the modified Quadratic Shepard's method. The interpolation scheme combines a least-square fitted function method and a weighted average method which are the two basic types of computational interpolation and approximation.

Extrapolation routines are used to obtain SAR values between the lowest measurement points and the inner phantom surface. The extrapolation distance is determined by the surface detection distance and the probe sensor offset. The uncertainty increases with the extrapolation distance. To keep the uncertainty within 1% for the 1g and 10g cubes, the extrapolation distance should not be larger than 5 mm.

Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In MVG measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drifts more than 5%, the SAR will be retested.

Power Drift measurement

The drift job measures the field at the same location as the most recent reference job within the same procedure, and with the same settings. The drift measurement gives the field difference in dB from the reading conducted within the last reference measurement. Several drift measurements are possible for

Measurement Uncertainty

Per KDB 865664 D01 SAR Measurement 100KHz to 6GHz ,when the highest measurement 1-g SAR within a frequency band is <1.5W/kg, the extensive SAR measurement uncertainty analysis described IEEE Std 1528-2013 is not required in SAR report submitted for equipment approval.

8. Conducted Output Power

Band: GSM 850	Measured Power (dBm)			Calculation (dB)	Averaged Power (dBm)		
Channel	128	190	251		128	190	251
Frequency	824.2	836.6	848.8		824.2	836.6	848.8
GSM (GMSK, Voice)	33.43	33.54	33.66	-9.03	24.40	24.51	24.63
GPRS (GMSK, 1-slot)	33.42	33.52	33.64	-9.03	24.39	24.49	24.61
GPRS (GMSK, 2-slot)	30.86	30.94	31.07	-6.02	24.84	24.92	25.05
GPRS (GMSK, 3-slot)	28.81	28.81	28.93	-4.26	24.55	24.55	24.67
GPRS (GMSK, 4-slot)	27.27	27.09	27.31	-3.01	24.26	24.08	24.30
EGPRS (1-slot)	26.15	26.07	26.14	-9.03	17.12	17.04	17.11
EGPRS (2-slot)	25.51	25.51	25.66	-6.02	19.49	19.49	19.64
EGPRS (3-slot)	23.19	23.04	23.06	-4.26	18.93	18.78	18.80
EGPRS (4-slot)	21.13	21.07	21.16	-3.01	18.12	18.06	18.15

Note:

1. Division Factors

To average the power, the division factor is as follows:

1TX-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2TX-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3TX-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4TX-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

2. According to the conducted power as above, the body measurements are performed with 1Tx slots for 850MHz for GPRS.

3. The device do not support power reduction, so power of hotspot activated as the same as hotspot disabled

Band: GSM 1900	Measured Power (dBm)			Calculation (dB)	Averaged Power (dBm)		
Channel	512	661	810		512	661	810
Frequency	1850.2	1880.0	1909.8		1850.2	1880.0	1909.8
GSM (GMSK, Voice)	29.72	29.61	29.74	-9.03	20.69	20.58	20.71
GPRS (GMSK, 1-slot)	29.63	29.56	29.65	-9.03	20.60	20.53	20.62
GPRS (GMSK, 2-slot)	28.5	28.29	28.37	-6.02	22.48	22.27	22.35
GPRS (GMSK, 3-slot)	26.27	26.97	26.18	-4.26	22.01	22.71	21.92
GPRS (GMSK, 4-slot)	24.56	24.24	24.13	-3.01	21.55	21.23	21.12
EGPRS (1-slot)	25.21	24.46	24.40	-9.03	16.18	15.43	15.37
EGPRS (2-slot)	25.04	24.28	24.21	-6.02	19.02	18.26	18.19
EGPRS (3-slot)	23.38	22.61	22.35	-4.26	19.12	18.35	18.09
EGPRS (4-slot)	21.37	20.62	20.42	-3.01	18.36	17.61	17.41

Note:

- Division Factors
To average the power, the division factor is as follows:
1TX-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB
2TX-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB
3TX-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB
4TX-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB
- According to the conducted power as above, the body measurements are performed with 1Tx slots for 1900MHz for GPRS.
- The device do not support power reduction, so power of hotspot activated as the same as hotspot disabled

Band	WCDMA Band II			WCDMA Band V		
Channel	9262	9400	9538	4132	4182	4233
Frequency	1852.40	1880.00	1907.60	826.40	836.40	846.60
RMC 12.2Kbps	22.55	21.93	21.57	23.03	22.73	22.53
HSDPA Subtest-1	21.66	20.95	20.55	22.16	21.81	21.62
HSDPA Subtest-2	21.72	20.86	20.66	21.73	21.58	21.52
HSDPA Subtest-3	21.19	20.44	20.12	21.62	21.38	21.16
HSDPA Subtest-4	21.12	20.36	20.06	21.55	21.27	21.13
HSUPA Subtest-1	21.30	20.64	20.32	21.87	21.52	21.38
HSUPA Subtest-2	20.26	19.88	19.56	21.26	20.98	20.83
HSUPA Subtest-3	20.30	20.03	19.69	21.44	21.12	21.01
HSUPA Subtest-4	21.18	20.74	20.38	21.76	21.45	21.36
HSUPA Subtest-5	20.53	20.15	20.03	21.71	21.40	21.32

Note:

1. According to the power listed above, the HSDPA and HSUPA were not determined for SAR testing.
2. The default test configuration is to measure SAR with an established radio link between the EUT and a communication test set using a 12.2kbps RMC(reference measurement channel) configuration in test loop mode
3. The device do not support power reduction, so power of hotspot activated as the same as hotspot disabled

WLAN 2.4G						
Mode	802.11b			802.11g		
Channel	1	6	11	1	6	11
Frequency	2412	2437	2462	2412	2437	2462
Average Power (dBm)	14.70	14.38	14.17	14.44	14.46	14.52
Mode	802.11n(HT20)			802.11n(HT40)		
Channel	1	6	11	3	6	9
Frequency	2412	2437	2462	2422	2437	2452
Average Power (dBm)	13.39	13.67	13.46	14.37	14.33	14.31

WLAN 5.2G						
Mode	IEEE 802.11a			IEEE 802.11n HT20		
Channel	36	40	48	36	40	48
Frequency	5180	5200	5240	5180	5200	5240
Average Power (dBm)	13.58	13.03	13.32	13.42	13.08	13.41
Mode	IEEE 802.11n HT40			IEEE 802.11ac VHT20		
Channel	38	46		36	40	48
Frequency	5190	5230		5180	5200	5240
Average Power (dBm)	13.91	13.48		13.74	13.16	13.42
Mode	IEEE 802.11ac VHT40			IEEE 802.11ac VHT80		
Channel	38	46		42		
Frequency	5190	5230		5210		
Average Power (dBm)	13.92	13.52		13.57		
WLAN 5.3G						
Mode	IEEE 802.11a			IEEE 802.11n HT20		
Channel	52	56	64	52	56	64
Frequency	5260	5280	5320	5260	5280	5320
Average Power (dBm)	13.90	14.51	13.89	13.73	14.33	13.69
Mode	IEEE 802.11n HT40			IEEE 802.11ac VHT20		
Channel	54	62		52	56	64
Frequency	5270	5310		5260	5280	5320
Average Power (dBm)	14.33	14.64		13.67	14.31	13.69
Mode	IEEE 802.11ac VHT40			IEEE 802.11ac VHT80		
Channel	54	62		58		
Frequency	5270	5310		5290		
Average Power (dBm)	14.35	14.63		14.36		

WLAN 5.8G						
Mode	IEEE 802.11a			IEEE 802.11n HT20		
Channel	149	157	165	149	157	165
Frequency	5745	5785	5825	5745	5785	5825
Average Power (dBm)	13.98	14.15	13.06	13.76	13.89	12.91
Mode	IEEE 802.11n HT40			IEEE 802.11ac VHT20		
Channel	151	159		149	157	165
Frequency	5755	5795		5745	5785	5825
Average Power (dBm)	14.20	14.24		13.75	13.91	12.91
Mode	IEEE 802.11ac VHT40			IEEE 802.11ac VHT80		
Channel	151	159		155		
Frequency	5755	5795		5775		
Average Power (dBm)	14.17	14.23		14.20		

Note

1. Per KDB 248227 D01 v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
2. The output power of all data rate were prescan , just the worst case (the lowest data rate) of all mode were shown in report

Bluetooth						
Mode	GFSK			Pi/4DQPSK		
Channel	0	39	78	0	39	78
Frequency	2402	2441	2480	2402	2441	2480
Average Power (dBm)	8.81	9.41	6.52	7.89	6.41	6.32
Mode	8DPSK			BLE(1M)		
Channel	0	39	78	0	20	39
Frequency	2402	2441	2480	2402	2440	2480
Average Power (dBm)	6.23	6.89	6.72	6.92	7.44	7.12
Mode	BLE(2M)					
Channel	0	20	39			
Frequency	2402	2440	2480			
Average Power (dBm)	6.99	7.57	7.01			

LTE Band 2

Conducted Power of LTE Band 2						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18607	18900	19193
1.4MHz	QPSK	1	0.00	23.63	22.86	22.78
			3.00	23.67	22.90	22.91
			5.00	23.72	22.84	22.88
		3	0.00	23.54	22.88	22.83
			2.00	23.51	22.67	22.84
			3.00	23.55	22.64	22.82
		6	0.00	22.57	21.75	21.88
	16QAM	1	0.00	22.89	21.58	22.23
			3.00	23.12	22.01	22.31
			5.00	22.82	21.74	22.22
		3	0.00	22.32	21.92	21.17
			2.00	22.39	21.73	21.60
			3.00	22.33	21.87	21.65
		6	0.00	21.52	20.87	21.05
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18615	18900	19185
3MHz	QPSK	1	0.00	23.50	22.83	22.59
			7.00	23.52	22.61	22.75
			14.00	23.43	22.71	22.58
		8	0.00	22.65	21.80	21.84
			4.00	22.67	21.84	21.79
			7.00	22.64	21.81	21.78
		15	0.00	22.65	21.79	21.78
	16QAM	1	0.00	22.50	21.64	21.98
			7.00	22.67	21.77	21.93
			14.00	22.53	21.71	21.93
		8	0.00	21.70	20.73	20.79
			4.00	21.70	20.61	20.80
			7.00	21.25	20.63	20.67
		15	0.00	21.83	20.81	20.68

Conducted Power of LTE Band 2						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18625	18900	19175
5MHz	QPSK	1	0.00	23.39	22.60	22.59
			12.00	23.39	22.59	22.56
			24.00	23.36	22.53	22.44
		12	0.00	22.70	21.90	21.81
			6.00	22.61	21.94	21.86
			13.00	22.58	21.80	21.77
		25	0.00	22.59	21.85	21.81
	16QAM	1	0.00	22.30	21.76	21.80
			12.00	22.24	21.79	22.19
			24.00	22.29	21.71	21.80
		12	0.00	21.59	20.87	20.90
			6.00	21.51	20.89	20.82
			13.00	21.56	20.73	20.80
		25	0.00	21.59	20.72	20.77
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18650	18900	19150
10MHz	QPSK	1	0.00	23.61	22.94	22.65
			24.00	23.71	23.15	22.85
			49.00	23.57	22.61	22.70
		25	0.00	22.70	22.06	21.80
			12.00	22.71	22.01	21.79
			25.00	22.66	21.89	21.89
		50	0.00	22.63	22.01	21.91
	16QAM	1	0.00	22.87	22.25	21.92
			2400	22.57	22.02	22.09
			49.00	22.57	21.75	22.36
		25	0.00	21.69	21.22	20.80
			2400	21.78	21.12	20.94
			49.00	21.64	21.10	20.96
		50	0.00	21.80	21.02	20.92

Conducted Power of LTE Band 2

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18675	18900	19125
15MHz	QPSK	1	0.00	23.64	22.96	22.56
			37.00	23.50	22.75	22.83
			74.00	23.21	22.48	22.76
		37	0.00	22.68	22.03	21.75
			18.00	22.65	22.05	21.80
			38.00	22.63	22.05	21.80
		75	0.00	23.62	22.06	21.80
	16QAM	1	0.00	22.70	22.27	22.24
			38.00	22.59	22.06	22.57
			74.00	22.43	21.84	22.27
		38	0.00	22.65	22.04	21.79
			18.00	22.64	22.05	21.80
			37.00	22.63	22.06	21.81
		75	0.00	21.59	20.97	20.91
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18700	18900	19100
20MHz	QPSK	1	0.00	23.55	23.24	22.66
			49.00	23.91	23.24	22.96
			99.00	23.34	22.65	22.88
		50	0.00	22.68	22.20	21.81
			25.00	22.74	22.23	21.78
			50.00	22.38	21.87	21.87
		100	0.00	22.57	22.07	21.87
	16QAM	1	0.00	23.17	22.15	21.76
			49.00	23.27	22.60	21.68
			99.00	22.46	22.26	21.74
		50	0.00	21.84	21.23	20.89
			25.00	21.83	21.25	20.83
			50.00	21.51	20.94	20.92
		100	0.00	21.61	21.22	20.88

Conducted Power of LTE Band 4						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19957	20175	20393
1.4MHz	QPSK	1	0.00	23.90	24.04	24.18
			3.00	24.11	23.98	24.37
			5.00	23.89	24.24	24.27
		3	0.00	23.88	24.21	24.18
			2.00	23.86	24.27	24.16
			3.00	23.91	24.18	24.02
		6	0.00	22.91	23.05	23.16
	16QAM	1	0.00	23.06	23.62	23.26
			2.00	23.19	23.66	23.44
			5.00	22.99	23.58	23.28
		3	0.00	22.79	22.98	22.99
			1.00	22.77	22.91	23.08
			3.00	23.01	23.01	22.91
		6	0.00	21.91	22.30	22.17
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19965	20175	20385
3MHz	QPSK	1	0.00	23.86	24.12	24.12
			7.00	23.92	23.95	24.04
			14.00	23.99	24.09	23.89
		8	0.00	22.90	23.14	23.21
			4.00	22.91	23.18	23.06
			7.00	23.01	23.08	23.11
		15	0.00	22.96	23.15	23.14
	16QAM	1	0.00	22.84	23.13	23.26
			7.00	23.03	23.39	23.26
			14.00	23.02	23.06	23.27
		8	0.00	22.04	21.96	22.05
			4.00	22.07	22.28	22.07
			7.00	22.23	22.30	22.05
		15	0.00	21.83	22.16	21.97

Conducted Power of LTE Band 4						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19975	20175	20375
5MHz	QPSK	1	0.00	23.66	24.22	24.02
			12.00	23.90	24.23	24.36
			24.00	23.71	23.99	24.06
		12	0.00	22.86	23.15	23.25
			6.00	22.86	23.20	23.17
			13.00	22.95	23.14	23.35
		25	0.00	22.97	23.15	23.21
	16QAM	1	0.00	22.63	23.52	23.20
			12.00	22.49	23.43	23.61
			24.00	22.72	23.08	23.36
		12	0.00	21.94	22.02	22.07
			6.00	21.72	22.05	22.28
			13.00	21.93	22.08	22.33
		25	0.00	22.15	22.22	22.35
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20000	20175	20350
10MHz	QPSK	1	0.00	24.22	23.77	24.40
			24.00	24.04	24.48	24.42
			49.00	23.72	23.94	24.10
		25	0.00	23.00	23.09	23.23
			12.00	22.99	23.03	23.32
			25.00	22.75	23.08	23.31
		50	0.00	22.81	23.12	23.35
	16QAM	1	0.00	23.01	23.23	23.76
			24.00	23.67	23.30	23.50
			49.00	22.91	23.09	23.47
		25	0.00	21.85	22.02	22.31
			12.00	22.03	22.14	22.31
			25.00	21.83	21.89	22.34
		50	0.00	21.93	22.02	22.19

Conducted Power of LTE Band 4						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20025	20175	20325
15MHz	QPSK	1	0.00	23.89	23.82	24.23
			37.00	23.97	24.02	24.33
			74.00	23.81	23.94	24.42
		37	0.00	22.80	23.03	23.28
			18.00	22.77	23.03	23.26
			38.00	22.76	23.03	23.25
		75	0.00	22.76	23.03	23.25
	16QAM	1	0.00	23.06	22.87	23.26
			37.00	22.85	23.31	23.81
			74.00	23.01	23.30	23.49
		37	0.00	22.77	23.03	23.26
			18.00	22.76	23.03	23.25
			38.00	22.76	23.03	23.25
		75	0.00	21.71	21.94	22.25
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20050	20175	20300
20MHz	QPSK	1	0.00	23.71	23.58	24.07
			49.00	23.93	24.14	24.24
			99.00	23.74	23.85	23.99
		50	0.00	22.61	22.71	22.99
			25.00	22.69	22.59	22.96
			50.00	22.65	22.79	22.94
		100	0.00	22.62	22.68	22.98
	16QAM	1	0.00	22.61	23.28	22.90
			49.00	23.22	24.00	22.83
			99.00	22.78	23.36	23.01
		50	0.00	21.73	21.68	22.12
			25.00	21.73	21.67	22.08
			50.00	21.74	21.68	22.00
		100	0.00	21.75	21.81	21.82

LTE Band 5

Conducted Power of LTE Band 5						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20407	20525	20643
1.4MHz	QPSK	1	0.00	23.01	23.58	23.20
			3.00	23.06	23.73	23.21
			5.00	23.10	23.68	22.96
		3	0.00	23.43	23.34	23.15
			2.00	23.57	23.51	23.21
			3.00	23.46	23.66	23.08
		6	0.00	22.35	22.49	22.03
	16QAM	1	0.00	22.54	22.87	22.30
			2.00	22.23	23.02	22.95
			5.00	22.50	23.05	22.49
		3	0.00	22.37	22.35	21.80
			1.00	22.19	22.34	21.86
			3.00	22.46	22.41	21.85
		6	0.00	21.37	21.66	21.35
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20415	20525	20635
3MHz	QPSK	1	0.00	23.36	23.30	22.65
			7.00	22.88	23.27	22.57
			14.00	23.22	23.67	22.17
		8	0.00	22.45	21.65	21.44
			4.00	22.32	21.97	21.44
			7.00	22.42	22.00	21.31
		15	0.00	22.40	21.73	21.32
	16QAM	1	0.00	22.49	21.92	21.65
			8.00	22.18	22.75	21.55
			14.00	22.41	22.39	21.55
		8	0.00	21.54	20.45	20.32
			4.00	21.64	20.67	20.33
			7.00	20.95	20.64	20.66
		15	0.00	21.37	20.41	20.08

Conducted Power of LTE Band 5						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20425	20525	20625
5MHz	QPSK	1	0.00	22.68	22.94	22.46
			12.00	22.91	23.16	22.64
			24.00	22.85	22.66	22.51
		12	0.00	22.01	21.91	21.87
			6.00	21.80	21.87	21.59
			13.00	21.79	21.93	21.32
		25	0.00	21.81	21.83	21.56
	16QAM	1	0.00	21.43	21.90	21.70
			12.00	21.68	22.35	21.98
			24.00	21.60	21.80	21.88
		12	0.00	20.92	21.06	20.57
			6.00	20.94	20.89	20.49
			13.00	20.57	21.06	20.46
		25	0.00	20.85	20.78	20.72
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20450	20525	20600
10MHz	QPSK	1	0.00	22.81	22.86	22.82
			24.00	22.73	23.01	22.75
			49.00	23.09	23.22	22.60
		25	0.00	21.95	22.05	21.85
			12.00	21.92	21.94	21.90
			25.00	21.80	21.86	21.69
		50	0.00	21.85	21.86	21.79
	16QAM	1	0.00	21.94	21.96	22.50
			24.00	22.05	22.37	22.87
			49.00	22.00	21.94	22.05
		25	0.00	20.88	21.01	20.75
			12.00	20.96	21.02	20.97
			25.00	20.91	20.95	20.81
		50	0.00	20.79	20.87	20.88

LTE Band 7

Conducted Power of LTE Band 7						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20775	21100	21425
5MHz	QPSK	1	0.00	20.59	20.62	21.46
			12.00	20.78	20.99	21.67
			24.00	20.89	20.80	21.61
		12	0.00	20.12	19.93	20.70
			6.00	20.10	19.95	20.68
			13.00	20.09	19.88	20.64
		25	0.00	20.08	19.93	20.64
	16QAM	1	0.00	19.41	19.70	20.69
			12.00	20.18	20.36	20.83
			24.00	19.92	19.84	21.07
		12	0.00	18.99	18.85	19.49
			6.00	18.97	18.86	19.61
			13.00	19.05	18.78	19.63
		25	0.00	19.17	18.75	19.65
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20800	21100	21400
10MHz	QPSK	1	0.00	20.77	20.83	21.38
			24.00	21.28	21.14	21.71
			49.00	20.92	20.92	21.55
		25	0.00	20.19	19.87	20.57
			12.00	20.12	19.85	20.59
			25.00	20.12	19.81	20.71
		50	0.00	20.13	19.89	20.61
	16QAM	1	0.00	19.90	19.89	20.70
			24.00	20.23	19.99	21.28
			49.00	20.14	19.92	21.26
		25	0.00	19.17	18.94	19.60
			12.00	19.18	18.63	19.62
			25.00	19.08	18.91	19.88
		50	0.00	19.07	18.68	19.50

Conducted Power of LTE Band 7

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20825	21100	21375
15MHz	QPSK	1	0.00	20.77	20.72	21.25
			37.00	20.98	20.67	21.47
			74.00	21.01	20.64	21.60
		37	0.00	20.13	19.91	20.59
			18.00	20.11	19.91	20.56
			38.00	20.19	19.92	20.57
		75	0.00	20.18	19.92	20.57
	16QAM	1	0.00	19.95	20.08	20.93
			38.00	20.90	20.05	21.54
			74.00	20.31	19.80	21.22
		36	0.00	20.11	19.91	20.55
			18.00	20.20	19.91	20.56
			37.00	20.19	19.92	20.57
		75	0.00	19.13	18.90	19.57
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20850	21100	21350
20MHz	QPSK	1	0.00	20.61	20.84	21.11
			49.00	21.36	21.07	21.64
			99.00	21.02	20.87	21.72
		50	0.00	20.10	19.89	20.49
			25.00	20.09	19.85	20.45
			50.00	20.11	19.90	20.66
		100	0.00	20.14	19.84	20.58
	16QAM	1	0.00	20.16	20.54	20.13
			49.00	20.71	21.13	20.58
			99.00	20.00	20.55	20.70
		50	0.00	19.14	19.03	19.48
			25.00	19.14	18.95	19.59
			50.00	19.20	18.76	19.68
		100	0.00	19.07	18.90	19.68

LTE Band 12

Conducted Power of LTE Band 12						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23017	23095	23173
1.4MHz	QPSK	1	0.00	22.00	22.28	22.25
			3.00	22.20	22.49	22.47
			5.00	21.78	22.32	22.23
		3	0.00	21.83	22.02	22.11
			2.00	21.83	22.12	22.01
			3.00	21.60	22.15	22.39
		6	0.00	20.67	20.99	21.31
	16QAM	1	0.00	21.20	21.24	21.15
			2.00	21.17	21.84	21.27
			5.00	20.88	21.19	21.09
		3	0.00	20.74	20.73	20.97
			2.00	20.70	20.86	20.97
			3.00	20.60	20.76	21.01
		6	0.00	19.38	19.81	21.11
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23025	23095	23165
3MHz	QPSK	1	0.00	22.33	22.19	22.42
			7.00	22.25	22.33	22.33
			14.00	22.23	22.21	21.98
		8	0.00	21.29	21.21	21.19
			4.00	21.33	21.14	21.33
			7.00	21.29	21.23	21.33
		15	0.00	21.36	21.19	21.23
	16QAM	1	0.00	21.28	21.19	21.38
			7.00	21.31	21.67	21.29
			14.00	21.07	20.94	21.65
		8	0.00	20.39	19.88	20.03
			4.00	20.31	19.81	20.19
			7.00	20.48	20.03	20.09
		15	0.00	20.23	20.10	19.92

Conducted Power of LTE Band 12

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23035	23095	23155
5MHz	QPSK	1	0.00	22.30	22.26	22.26
			12.00	22.29	22.49	22.20
			24.00	22.05	22.31	21.89
		12	0.00	21.17	21.12	21.15
			6.00	21.23	21.19	21.21
			13.00	21.21	21.29	21.14
		25	0.00	21.30	21.10	21.17
	16QAM	1	0.00	21.12	21.22	21.01
			12.00	21.13	21.82	21.08
			24.00	21.11	21.27	21.25
		12	0.00	20.30	20.01	20.06
			6.00	20.17	20.00	20.18
			13.00	20.20	20.05	20.05
		25	0.00	20.12	20.04	20.26
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23060	23095	23130
10MHz	QPSK	1	0.00	21.01	22.13	22.08
			24.00	21.08	22.53	22.56
			49.00	21.25	22.37	22.39
		25	0.00	20.06	21.20	21.29
			12.00	20.18	21.17	21.20
			25.00	20.05	21.26	21.17
		50	0.00	20.26	21.20	21.23
	16QAM	1	0.00	21.20	21.36	21.42
			24.00	21.72	22.29	22.27
			49.00	21.28	21.43	21.23
		25	0.00	20.26	19.95	20.36
			12.00	20.07	20.19	20.37
			25.00	19.94	20.27	20.27
		50	0.00	20.69	21.00	20.20

LTE Band 17

Conducted Power of LTE Band 17						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23755	23790	23825
5MHz	QPSK	1	0.00	22.63	22.42	22.58
			12.00	22.80	22.62	22.78
			24.00	22.69	22.45	22.68
		12	0.00	21.68	21.72	21.59
			6.00	21.65	21.62	21.64
			13.00	21.57	21.58	21.58
		25	0.00	21.63	21.54	21.60
	16QAM	1	0.00	21.47	21.66	21.64
			12.00	21.55	22.27	21.67
			24.00	21.73	21.78	21.69
		12	0.00	20.50	20.55	20.65
			6.00	20.34	20.42	20.55
			13.00	20.51	20.52	20.52
		25	0.00	20.35	20.60	20.36
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23780	23790	23800
10MHz	QPSK	1	0.00	22.87	22.64	22.57
			24.00	23.26	23.06	22.96
			49.00	22.89	22.70	22.61
		25	0.00	21.86	21.71	21.75
			12.00	21.85	21.73	21.71
			25.00	21.73	21.76	21.71
		50	0.00	21.74	21.68	21.69
	16QAM	1	0.00	21.95	22.44	21.74
			24.00	21.83	21.97	22.05
			49.00	21.71	21.82	21.68
		25	0.00	20.70	20.43	20.74
			12.00	20.67	20.77	20.64
			25.00	20.58	20.77	20.78
		50	0.00	20.62	20.71	20.41

LTE Band 41

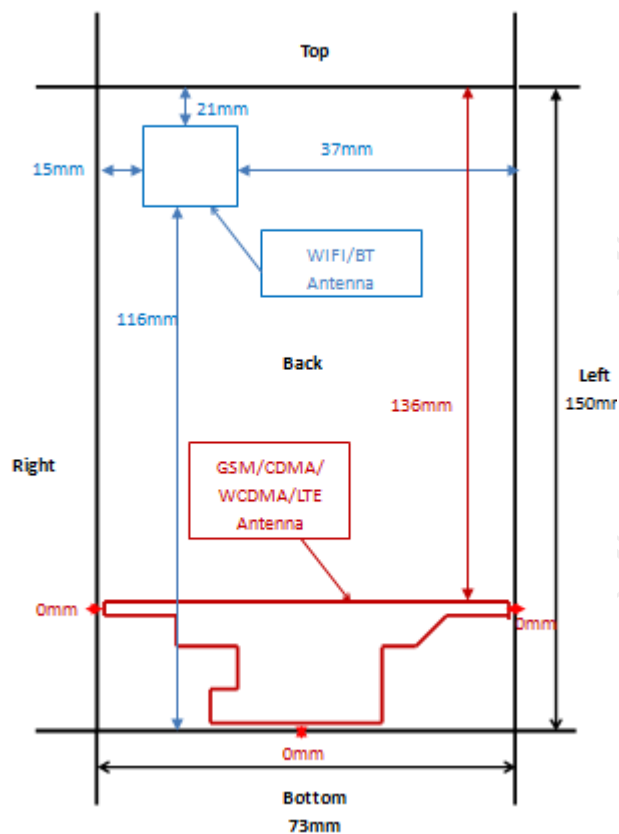
Conducted Power of LTE Band 41						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				40065	40590	41215
5MHz	QPSK	1	0.00	23.55	23.23	19.93
			12.00	23.63	23.16	19.95
			24.00	23.55	23.19	19.97
		12	0.00	22.57	22.30	19.20
			6.00	22.58	22.22	19.20
			13.00	22.54	22.20	19.18
		25	0.00	22.54	22.23	19.16
	16QAM	1	0.00	22.75	22.43	19.21
			12.00	22.80	22.54	19.38
			24.00	22.54	22.38	19.38
		12	0.00	21.47	21.00	18.07
			6.00	21.47	21.01	18.07
			13.00	21.25	20.89	18.00
		25	0.00	21.42	21.19	18.14
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				40090	40590	41190
10MHz	QPSK	1	0.00	23.68	23.33	19.94
			24.00	23.59	23.23	20.03
			49.00	23.40	22.85	19.95
		25	0.00	22.73	22.28	19.15
			12.00	22.73	22.12	19.15
			25.00	22.60	22.14	19.16
		50	0.00	22.60	22.08	19.21
	16QAM	1	0.00	22.87	22.19	19.19
			24.00	22.85	23.09	19.09
			49.00	22.50	22.44	19.30
		25	0.00	21.56	21.24	17.99
			12.00	21.62	21.24	17.99
			25.00	21.39	21.20	17.99
		50	0.00	21.53	20.93	18.08

Conducted Power of LTE Band 41

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				40115	40590	41165
15MHz	QPSK	1	0.00	23.73	23.34	19.98
			37.00	23.48	23.10	19.96
			74.00	23.24	22.98	20.12
		37	0.00	22.60	22.20	19.09
			18.00	22.52	22.20	19.09
			38.00	22.52	22.20	19.08
		75	0.00	22.51	22.20	19.08
	16QAM	1	0.00	22.86	22.41	19.25
			37.00	22.68	22.43	19.02
			74.00	22.28	22.16	19.34
		37	0.00	22.52	22.20	19.09
			18.00	22.52	22.20	19.09
			38.00	22.51	22.20	19.08
		75	0.00	21.49	21.17	18.07
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				40140	40590	41140
20MHz	QPSK	1	0.00	23.72	23.70	20.18
			49.00	23.56	23.41	20.05
			99.00	23.08	23.14	19.99
		50	0.00	22.63	22.43	18.99
			25.00	22.66	22.44	19.01
			50.00	22.41	22.14	19.21
		100	0.00	22.43	22.28	19.06
	16QAM	1	0.00	20.18	22.81	19.74
			49.00	20.05	22.63	19.96
			99.00	19.99	22.14	19.72
		50	0.00	18.99	21.32	18.09
			25.00	19.01	21.32	18.09
			50.00	19.21	20.94	18.18
		100	0.00	19.06	21.06	18.12

9. Exposure Position Consideration

9.1. EUT Antenna Location



Antenna Configuration 1- LT60

9.2. Test Position Consideration

Test Positions						
Mode	Back	Front	Top Side	Bottom Side	Right Side	Left Side
GSM/WCDMA/CDMA /LTE -1	Yes	Yes	No	Yes	Yes	Yes
WIFI/BT-1	Yes	Yes	Yes	No	Yes	No

Note:

1. KDB447498 D04, particular DUT edges were not required to be evaluated for SAR if the antenna-to-edge distance is greater than 2.5cm.
2. The product only supports public address and no earpiece, so only the front and bottom need to be tested.
3. WWAN diversity antenna is RX only.

10. SAR Test Results Summary

10.1. Head 1g SAR Data

Band	Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Tune-Up Limit (dBm)	Power Drift (%)	Meas. SAR1g (W/kg)	Scaling Factor	Reported SAR1g (W/kg)	Limit (W/Kg)
GSM850	voice	Left Cheek	251	848.8	33.66	34.00	3.24	0.14	1.014	0.14	1.60
		Left Tilt	251	848.8	33.66	34.00	-1.22	0.10	1.014	0.10	
		Right Cheek	251	848.8	33.66	34.00	-0.21	0.17	1.014	0.17	
		Right Tilt	251	848.8	33.66	34.00	0.02	0.09	1.014	0.09	
GSM1900	voice	Left Cheek	810	1909.8	29.74	30.00	0.42	0.20	1.094	0.22	
		Left Tilt	810	1909.8	29.74	30.00	-0.31	0.13	1.094	0.14	
		Right Cheek	810	1909.8	29.74	30.00	0.35	0.22	1.094	0.24	
		Right Tilt	810	1909.8	29.74	30.00	-2.64	0.10	1.094	0.11	
WCDMA Band II	RMC	Left Cheek	9262	1852.4	22.55	23.00	2.46	0.23	1.016	0.23	
		Left Tilt	9262	1852.4	22.55	23.00	-0.39	0.11	1.016	0.11	
		Right Cheek	9262	1852.4	22.55	23.00	-1.34	0.24	1.016	0.24	
		Right Tilt	9262	1852.4	22.55	23.00	-2.67	0.14	1.016	0.14	
WCDMA Band V	RMC	Left Cheek	4132	826.4	23.03	23.00	1.48	0.07	1.014	0.07	
		Left Tilt	4132	826.4	23.03	23.00	1.37	0.04	1.014	0.04	
		Right Cheek	4132	826.4	23.03	23.00	0.23	0.09	1.014	0.09	
		Right Tilt	4132	826.4	23.03	23.00	0.06	0.04	1.014	0.04	
2.4G	802.11b	Left Cheek	1	2412	14.70	15.00	-1.36	0.26	1.007	0.26	

		Left Tilt	1	2412	14.70	15.00	-0.34	0.14	1.007	0.14
		Right Cheek	1	2412	14.70	15.00	0.47	0.24	1.007	0.24
		Right Tilt	1	2412	14.70	15.00	2.21	0.12	1.007	0.12

5.2G	802.11ac HT40	Left Cheek	38	5190	13.92	14.00	-1.06	0.17	1.059	0.18
		Left Tilt	42	5210	13.92	14.00	1.09	0.10	1.059	0.11
		Right Cheek	42	5210	13.92	14.00	1.21	0.22	1.059	0.23
		Right Tilt	42	5210	13.92	14.00	-2.34	0.11	1.059	0.12
5.3G	802.11n HT40	Left Cheek	62	5310	14.64	15.00	-3.46	0.15	1.043	0.16
		Left Tilt	62	5310	14.64	15.00	-1.09	0.09	1.043	0.09
		Right Cheek	62	5310	14.64	15.00	-1.34	0.19	1.043	0.20
		Right Tilt	62	5310	14.64	15.00	-1.29	0.10	1.043	0.10
5.8G	802.11n HT40	Left Cheek	159	5795	14.24	14.50	-2.47	0.19	1.096	0.21
		Left Tilt	159	5795	14.24	14.50	-1.00	0.13	1.096	0.14
		Right Cheek	159	5795	14.24	14.50	-2.39	0.24	1.096	0.26
		Right Tilt	159	5795	14.24	14.50	1.70	0.07	1.096	0.08
BT		Left Cheek	39	2441	9.41	9.50	0.27	0.08	1.027	0.08
		Left Tilt	39	2441	9.41	9.50	-1.50	0.04	1.027	0.04
		Right Cheek	39	2441	9.41	9.50	-3.02	0.06	1.027	0.06
		Right Tilt	39	2441	9.41	9.50	0.18	0.03	1.027	0.03

1.60

Band	Mode	Test Position	CH.	Freq. (MHz)	RB allocation	RB offset	Ave. Power (dBm)	Tune-Up Limit (dBm)	Power Drift (%)	Meas. SAR1g (W/kg)	Scaling Factor	Reported SAR1g (W/kg)
LTE Band 2	QPSK (20MHz)	Right Cheek	18700	1860	1	49	23.91	24.00	0.34	0.18	1.038	0.19
					50	25	22.74	23.00	-0.21	0.19	1.117	0.21
		Right Tilt	18700	1860	1	49	23.91	24.00	-0.10	0.22	1.038	0.23
					50	25	22.74	23.00	1.27	0.13	1.117	0.15
		Left Cheek	18700	1860	1	49	23.91	24.00	0.21	0.27	1.038	0.28
					50	25	22.74	23.00	2.04	0.21	1.117	0.23
		Left Tilt	18700	1860	1	49	23.91	24.00	-1.79	0.17	1.038	0.18
					50	25	22.74	23.00	-2.69	0.11	1.117	0.12
LTE Band 4	QPSK (20MHz)	Right Cheek	20300	1745	1	49	24.24	24.50	-0.34	0.12	1.052	0.13
					50	0	22.99	23.00	0.05	0.17	1.074	0.18
		Right Tilt	20300	1745	1	49	24.24	24.50	0.11	0.14	1.052	0.15
					50	0	22.99	23.00	-3.02	0.06	1.074	0.06
		Left Cheek	20300	1745	1	49	24.24	24.50	-1.02	0.13	1.052	0.14
					50	0	22.99	23.00	-4.05	0.10	1.074	0.11
		Left Tilt	20300	1745	1	49	24.24	24.50	0.07	0.12	1.052	0.13
					50	0	22.99	23.00	1.67	0.11	1.074	0.12
LTE Band 5	QPSK (10MHz)	Right Cheek	20525	836.5	1	0	22.86	23.00	-2.21	0.06	1.091	0.07
					25	0	22.05	22.50	-1.07	0.10	1.107	0.11
		Right Tilt	20525	836.5	1	0	22.86	23.00	1.34	0.04	1.091	0.04
					25	0	22.05	22.50	0.65	0.10	1.107	0.11
		Left Cheek	20525	836.5	1	0	22.86	23.00	1.69	0.13	1.091	0.14
					25	0	22.05	22.50	-1.34	0.10	1.107	0.11
		Left Tilt	20525	836.5	1	0	22.86	23.00	2.14	0.09	1.091	0.10
					25	0	22.05	22.50	-1.37	0.08	1.107	0.09
LTE Band 7	QPSK (10MHz)	Right Cheek	21350	2560	1	99	21.72	22.00	-2.51	0.07	1.067	0.07
					50	50	20.66	21.00	3.01	0.11	1.094	0.12
		Right Tilt	21350	2560	1	99	21.72	22.00	4.02	0.04	1.067	0.04
					50	50	20.66	21.00	-3.10	0.05	1.094	0.05
		Left Cheek	21350	2560	1	99	21.72	22.00	-0.39	0.06	1.067	0.06
					50	50	20.66	21.00	1.50	0.04	1.094	0.04
		Left Tilt	21350	2560	1	99	21.72	22.00	-1.01	0.05	1.067	0.05
					50	50	20.66	21.00	2.65	0.08	1.094	0.09

LTE Band 12	QPSK (10MHz)	Right Cheek	23130	711	1	24	22.56	23.00	-0.61	0.06	1.067	0.06
					25	0	21.29	21.50	-0.67	0.07	1.107	0.08
		Right Tilt	23130	711	1	24	22.56	23.00	-1.37	0.07	1.067	0.07
					25	0	21.29	21.50	1.60	0.04	1.107	0.04
		Left Cheek	23130	711	1	24	22.56	23.00	-1.57	0.10	1.067	0.11
					25	0	21.29	21.50	2.97	0.07	1.107	0.08
LTE Band 17	QPSK (10MHz)	Right Cheek	23780	709	1	24	23.26	23.50	2.18	0.09	1.107	0.10
					25	0	21.86	22.00	-0.67	0.07	1.122	0.08
		Right Tilt	23780	709	1	24	23.26	23.50	-2.69	0.08	1.107	0.09
					25	0	21.86	22.00	-1.37	0.04	1.122	0.04
		Left Cheek	23780	709	1	24	23.26	23.50	0.72	0.11	1.107	0.12
					25	0	21.86	22.00	1.30	0.06	1.122	0.07
LTE Band 41	QPSK (20MHz)	Right Cheek	40140	2953	1	0	23.72	24.00	-1.05	0.04	1.117	0.04
					50	25	22.66	23.00	0.79	0.10	1.119	0.11
		Right Tilt	40140	2953	1	0	23.72	24.00	1.11	0.05	1.117	0.06
					50	25	22.66	23.00	-1.36	0.09	1.119	0.10
		Left Cheek	40140	2953	1	0	23.72	24.00	-0.57	0.20	1.117	0.22
					50	25	22.66	23.00	-3.11	0.14	1.119	0.16
		Left Tilt	40140	2953	1	0	23.72	24.00	2.64	0.11	1.117	0.12
					50	25	22.66	23.00	-2.68	0.10	1.119	0.11

10.2. Body-Worn 1g SAR Data

Band	Mode	Test Position with 10mm	CH.	Freq. (MHz)	Ave. Power (dBm)	Tune-Up Limit (dBm)	Power Drift (%)	Meas. SAR1g (W/kg)	Scaling Factor	Reported SAR1g (W/kg)	96Limit (W/Kg)
GSM850	voice	Front	251	848.8	33.66	34.00	1.24	0.04	1.014	0.04	1.60
		Back	251	848.8	33.66	34.00	-2.60	0.09	1.014	0.09	
	GPRS 4 slots	Front	190	836.6	31.07	31.50	-2.37	0.35	1.102	0.39	
		Back	190	836.6	31.07	31.50	0.20	0.48	1.102	0.53	

GSM1900	voice	Front	810	1909.8	29.74	30.00	0.61	0.08	1.094	0.09
		Back	810	1909.8	29.74	30.00	-1.68	0.12	1.094	0.13
	GPRS 4 slots	Front	661	1880	26.74	27.00	-1.49	0.10	1.122	0.11
		Back	661	1880	26.74	27.00	-0.93	0.14	1.122	0.16
WCDMA Band II	RMC	Front	9262	1852.4	22.55	23.00	-2.32	0.31	1.016	0.31
		Back	9262	1852.4	22.55	23.00	-1.73	0.40	1.016	0.41
WCDMA Band V	RMC	Front	4132	826.4	23.03	23.50	2.19	0.12	1.014	0.12
		Back	4132	826.4	23.03	23.50	1.11	0.16	1.014	0.16
2.4G	802.11b	Front	1	2412	14.70	15.00	-3.60	0.15	1.007	0.15
		Back	1	2412	14.70	15.00	2.12	0.27	1.007	0.27
5.2G	802.11ac HT40	Front	38	5190	13.92	14.00	2.59	0.11	1.059	0.12
		Back	38	5190	13.92	14.00	5190	0.18	1.059	0.19
5.3G	802.11n HT40	Front	62	5310	14.64	15.00	-2.53	0.09	1.043	0.09
		Back	62	5310	14.64	15.00	2.01	0.15	1.043	0.16
5.8G	802.11n HT40	Front	159	5795	14.24	14.50	3.05	0.11	1.096	0.12
		Back	159	5795	14.24	14.50	-1.45	0.19	1.096	0.21
BT	GFSK	Front	39	2441	9.41	7.00	-2.51	0.03	1.027	0.03
		Back	39	2441	9.41	7.00	1.05	0.05	1.027	0.05

Band	Mode	Test Position with 10mm	CH.	Freq. (MHz)	RB allocation	RB offset	Ave. Power (dBm)	Tune-Up Limit (dBm)	Power Drift (%)	Meas. SAR1g (W/kg)	Scaling Factor	Reported SAR1g (W/kg)
LTE Band 2	QPSK (20MHz)	Front	18700	1860	1	49	23.91	24.00	-1.33	0.25	1.038	0.26
					50	25	22.74	25.00	1.04	0.17	1.117	0.19
		Back	18700	1860	1	49	23.91	24.00	0.17	0.27	1.038	0.28
					50	25	22.74	25.00	-0.16	0.14	1.117	0.16
LTE Band 4	QPSK (20MHz)	Front	20300	1745	1	49	24.24	24.50	1.54	0.12	1.052	0.13
					50	25	22.99	23.00	-0.24	0.08	1.074	0.09
		Back	20300	1745	1	49	24.24	24.50	0.21	0.16	1.052	0.17
					50	25	22.99	23.00	-1.67	0.06	1.074	0.06

LTE Band 5	QPSK (10MHz)	Front	20525	836.5	1	0	22.86	23.00	1.61	0.10	1.091	0.11
					25	0	22.05	22.50	0.67	0.13	1.107	0.14
		Back	20525	836.5	1	0	22.86	23.00	-0.16	0.16	1.091	0.17
					25	0	22.05	22.50	-3.30	0.14	1.107	0.15
LTE Band 7	QPSK (20MHz)	Front	21350	2560	1	99	21.72	22.00	2.12	0.38	1.067	0.41
					50	50	20.66	21.00	3.52	0.26	1.094	0.28
		Back	21350	2560	1	99	21.72	22.00	-0.23	0.50	1.067	0.53
					50	50	20.66	21.00	-1.25	0.40	1.094	0.44
LTE Band 12	QPSK (10MHz)	Front	23130	711	1	24	21.29	21.50	2.34	0.11	1.067	0.12
					25	0	24.56	25.00	1.59	0.13	1.107	0.14
		Back	23130	711	1	24	21.29	21.50	-2.82	0.19	1.067	0.21
					25	0	24.56	25.00	-2.16	0.14	1.107	0.15
LTE Band 17	QPSK (10MHz)	Front	23780	709	1	24	23.26	23.50	0.40	0.15	1.107	0.17
					25	0	21.86	22.00	-2.48	0.09	1.122	0.10
		Back	23780	709	1	24	23.26	23.50	0.29	0.18	1.107	0.20
					25	0	21.86	22.00	-1.24	0.11	1.122	0.12
LTE Band 41	QPSK (20MHz)	Front	40140	2593	1	0	23.72	24.00	2.04	0.44	1.117	0.49
					50	25	22.66	23.00	0.67	0.38	1.119	0.43
		Back	40140	2593	1	0	23.72	24.00	-3.69	0.67	1.117	0.75
					50	25	22.66	23.00	2.04	0.32	1.119	0.36

Note:

1. Per KDB447498 D04, for each exposure position, if the highest output power channel Reported SAR $\leq 0.8W/kg$, other channels SAR testing is not necessary.
2. Per KDB447498 D04, body-worn use is evaluated with the device positioned at 10 mm from a flat phantom filled with head tissue-equivalent medium.
3. Per KDB447498 D04, the report SAR is measured SAR value adjusted for maximum tune-up tolerance. Scaling Factor = $10^{[(\text{tune-up limit power(dBm)} - \text{Ave.power power (dBm)})/10]}$, where tune-up limit is the maximum rated power among all production units.
Reported SAR(W/kg) = Measured SAR (W/kg) * Scaling Factor.
4. Per KDB865664D01 v01r04 perform a second repeated measurement only the ratio of largest to smallest SAR for the original and first repeated measurement is >1.20 or when the original or repeated measurement is $\geq 1.45W/kg$.
5. Perform a second measurement only if the original, first and second repeated measurement is $\geq 1.5w/kg$ and the ratio of largest to smallest SAR for the original, first and second repeated measurement is >1.20 .

10.3. Hotspot 1g SAR Data

Band	Mode	Test Position with 10mm	CH.	Freq. (MHz)	Ave. Power (dBm)	Tune-Up Limit (dBm)	Power Drift (%)	Meas. SAR1g (W/kg)	Scaling Factor	Reported SAR1g (W/kg)	Limit (W/Kg)
GSM850	GPRS 4 slots	Front	251	848.8	31.07	31.50	-1.33	0.14	1.102	0.15	1.60
		Back	251	848.8	31.07	31.50	-0.37	0.22	1.102	0.24	
		Right	251	848.8	31.07	31.50	2.12	0.10	1.102	0.11	
		Left	251	848.8	31.07	31.50	0.07	0.12	1.102	0.13	
		Bottom	251	848.8	31.07	31.50	-3.49	0.06	1.102	0.07	
GSM1900	GPRS 4 slots	Front	661	1880	26.97	27.00	2.01	0.13	1.122	0.15	
		Back	661	1880	26.97	27.00	1.84	0.19	1.122	0.21	
		Right	661	1880	26.97	27.00	1.39	0.16	1.122	0.18	
		Left	661	1880	26.97	27.00	-2.46	0.13	1.122	0.15	
		Bottom	661	1880	26.97	27.00	-0.57	0.07	1.122	0.08	
WCDMA Band II	RMC	Front	9262	1852.4	22.55	23.00	1.14	0.08	1.016	0.08	
		Back	9262	1852.4	22.55	23.00	-1.17	0.14	1.016	0.14	
		Right	9262	1852.4	22.55	23.00	0.67	0.10	1.016	0.10	
		Left	9262	1852.4	22.55	23.00	-0.47	0.09	1.016	0.09	
		Bottom	9262	1852.4	22.55	23.00	0.14	0.03	1.016	0.03	
WCDMA Band V	RMC	Front	4132	826.4	23.03	23.50	-1.24	0.11	1.014	0.11	
		Back	4132	826.4	23.03	23.50	0.01	0.16	1.014	0.16	
		Right	4132	826.4	23.03	23.50	-2.31	0.10	1.014	0.10	
		Left	4132	826.4	23.03	23.50	0.47	0.11	1.014	0.11	
		Bottom	4132	826.4	23.03	23.50	-1.24	0.04	1.014	0.04	
2.4G	802.11b	Front	1	2412	14.70	15.00	-1.21	0.12	1.007	0.12	
		Back	1	2412	14.70	15.00	-2.11	0.32	1.007	0.32	
		Right	1	2412	14.70	15.00	0.41	0.09	1.007	0.09	
		Top	1	2412	14.70	15.00	0.36	0.02	1.007	0.02	

Band	Mode	Test Position with 10mm	CH.	Freq. (MHz)	RB allocation	RB offset	Ave. Power (dBm)	Tune-Up Limit (dBm)	Power Drift (%)	Meas. SAR1g (W/kg)	Scaling Factor	Reported SAR1g (W/kg)
LTE Band 2	QPSK (20MHz)	Front	18700	1860	1	49	23.91	24.00	0.45	0.16	1.038	0.17
					50	25	22.74	23.00	0.16	0.18	1.117	0.20
		Back	18700	1860	1	49	23.91	24.00	-2.55	0.29	1.038	0.30
					50	25	22.74	23.00	-2.22	0.24	1.117	0.27
		Right	18700	1860	1	49	23.91	24.00	-3.48	0.12	1.038	0.12
					50	25	22.74	23.00	-0.03	0.09	1.117	0.10
		Left	18700	1860	1	49	23.91	24.00	0.60	0.14	1.038	0.15
					50	25	22.74	23.00	-2.34	0.11	1.117	0.12
		Bottom	18700	1860	1	49	23.91	24.00	0.20	0.07	1.038	0.07
					50	25	22.74	23.00	-2.61	0.04	1.117	0.04
LTE Band 4	QPSK (20MHz)	Front	20300	1745	1	49	24.24	24.50	0.12	0.24	1.052	0.25
					50	0	22.99	23.00	1.14	0.22	1.074	0.24
		Back	20300	1745	1	49	24.24	24.50	0.91	0.26	1.052	0.27
					50	0	22.99	23.00	-2.11	0.20	1.074	0.21
		Right	20300	1745	1	49	24.24	24.50	-2.17	0.12	1.052	0.13
					50	0	22.99	23.00	0.61	0.21	1.074	0.26
		Left	20300	1745	1	49	24.24	24.50	-3.16	0.20	1.052	0.21
					50	0	22.99	23.00	2.10	0.08	1.074	0.09
		Bottom	20300	1745	1	49	24.24	24.50	-0.34	0.06	1.052	0.06
					50	0	22.99	23.00	-2.49	0.03	1.074	0.03
LTE Band 5	QPSK (10MHz)	Front	20525	836.5	1	0	22.86	23.00	-2.50	0.14	1.091	0.15
					25	0	22.05	22.50	-1.31	0.10	1.107	0.11
		Back	20525	836.5	1	0	22.86	23.00	-1.19	0.15	1.091	0.16
					25	0	22.05	22.50	1.44	0.12	1.107	0.13
		Right	20525	836.5	1	0	22.86	23.00	3.46	0.11	1.091	0.12
					25	0	22.05	22.50	0.47	0.06	1.107	0.07
		Left	20525	836.5	1	0	22.86	23.00	3.31	0.14	1.091	0.15
					25	0	22.05	22.50	-0.68	0.08	1.107	0.09
		Bottom	20525	836.5	1	0	22.86	23.00	-2.35	0.07	1.091	0.08
					25	0	22.05	22.50	-3.39	0.04	1.107	0.04
LTE Band 7	QPSK (10MHz)	Front	21350	2560	1	99	21.72	23.00	-2.14	0.25	1.067	0.27
					50	50	20.66	21.00	3.08	0.21	1.094	0.23
		Back	21350	2560	1	99	21.72	23.00	-0.07	0.44	1.067	0.47
					50	50	20.66	21.00	2.52	0.40	1.094	0.44
		Right	21350	2560	1	99	21.72	23.00	-1.21	0.07	1.067	0.07
					50	50	20.66	21.00	3.62	0.06	1.094	0.07
		Left	21350	2560	1	99	21.72	23.00	-2.39	0.08	1.067	0.09
					50	50	20.66	21.00	3.05	0.10	1.094	0.11
		Bottom	21350	2560	1	99	21.72	23.00	-3.62	0.02	1.067	0.02
					50	50	20.66	21.00	3.18	0.01	1.094	0.01

LTE Band 12	QPSK (10MHz)	Front	23130	711	1	24	22.56	23.00	2.14	0.12	1.067	0.13
					25	0	21.29	21.50	-1.11	0.23	1.107	0.23
		Back	23130	711	1	24	22.56	23.00	0.06	0.15	1.067	0.16
					25	0	21.29	21.50	-2.34	0.20	1.107	0.22
		Right	23130	711	1	24	22.56	23.00	1.04	0.14	1.067	0.15
					25	0	21.29	21.50	2.14	0.08	1.107	0.09
		Left	23130	711	1	24	22.56	23.00	-0.31	0.14	1.067	0.15
					25	0	21.29	21.50	-2.11	0.09	1.107	0.10
		Bottom	23130	711	1	24	22.56	23.00	-0.15	0.05	1.067	0.05
					25	0	21.29	21.50	-0.02	0.02	1.107	0.02
LTE Band 17	QPSK (10MHz)	Front	23780	709	1	24	23.26	23.50	1.10	0.14	1.107	0.15
					25	0	21.86	22.00	0.31	0.09	1.122	0.10
		Back	23780	709	1	24	23.26	23.50	0.17	0.17	1.107	0.19
					25	0	21.86	22.00	-2.67	0.14	1.122	0.16
		Right	23780	709	1	24	23.26	23.50	-1.18	0.11	1.107	0.12
					25	0	21.86	22.00	-1.78	0.08	1.122	0.09
		Left	23780	709	1	24	23.26	23.50	0.97	0.11	1.107	0.12
					25	0	21.86	22.00	-0.08	0.09	1.122	0.10
		Bottom	23780	709	1	24	23.26	23.50	1.04	0.04	1.107	0.04
					25	0	21.86	22.00	-0.37	0.02	1.122	0.02

LTE Band 41	QPSK (20MHz)	Front	40140	2593	1	0	23.72	24.00	-1.14	0.26	1.117	0.29
					50	25	22.66	23.00	2.31	0.19	1.119	0.21
		Back	40140	2593	1	0	23.72	24.00	-1.81	0.53	1.117	0.59
					50	25	22.66	23.00	0.42	0.41	1.119	0.46
		Right	40140	2593	1	0	23.72	24.00	1.66	0.14	1.117	0.16
					50	25	22.66	23.00	1.39	0.09	1.119	0.10
		Left	40140	2593	1	0	23.72	24.00	0.47	0.18	1.117	0.20
					50	25	22.66	23.00	-0.77	0.10	1.119	0.11
		Bottom	40140	2593	1	0	23.72	24.00	-2.39	0.08	1.117	0.09
					50	25	22.66	23.00	-0.61	0.03	1.119	0.03

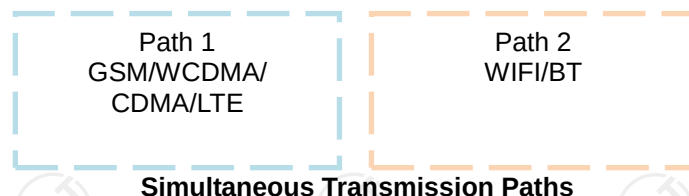
Note:

- Per KDB447498 D04, for each exposure position, if the highest output power channel Reported SAR $\leq 0.8\text{W/kg}$, other channels SAR testing is not necessary.
- Per KDB447498 D04, body-worn with hotspot use is evaluated with the device positioned at 10 mm from a flat phantom filled with head tissue-equivalent medium.
- Per KDB447498 D04, the report SAR is measured SAR value adjusted for maximum tune-up tolerance. Scaling Factor = $10^{[(\text{tune-up limit power(dBm)} - \text{Ave. power (dBm)})/10]}$, where tune-up limit is the maximum rated power among all production units.
Reported SAR(W/kg) = Measured SAR (W/kg) * Scaling Factor.
- Per KDB865664D01 v01r04 perform a second repeated measurement only the ratio of largest to smallest SAR for the original and first repeated measurement is >1.20 or when the original or repeated measurement is $\geq 1.45\text{W/kg}$.
- Perform a second measurement only if the original, first and second repeated measurement is $\geq 1.5\text{W/kg}$ and the ratio of largest to smallest SAR for the original, first and second repeated measurement is >1.20 .

10.4. Simultaneous Transmission Conclusion

Multi-Band Simultaneous Transmission Considerations

According to FCC KDB Publication 447498 D01v05r02, transmitters are considered to be transmitting simultaneously when there is overlapping transmission, with the exception of transmissions during network hand-offs with maximum hand-off duration less than 30 seconds. Possible transmission paths for the EUT are shown in below Figure and are color-coded to indicate communication modes which share the same path. Modes which share the same transmission path cannot transmit simultaneously with one another.



Simultaneous Transmission Possibilities

The Simultaneous Transmission Possibilities of this device are as below:

NO.	Configuration	Head	Body-Worn	Hotspot
1	GSM850/1900(Voice)+WIFI(2.4/5G)	YES	YES	NO
2	GPRS 850/1900(DATA)+WIFI(2.4)	NO	YES	YES
3	GPRS 850/1900(DATA)+WIFI(5G)	NO	YES	NO
4	WCDMA+ WIFI(2.4)	YES	YES	YES
5	WCDMA+ WIFI(5G)	YES	YES	NO
6	LTE+WIFI(2.4)	YES	YES	YES
7	LTE+WIFI(5G)	YES	YES	NO
8	GSM850/1900(Voice)+BT	YES	YES	NO
9	GPRS/EDGE 850/1900(DATA)+BT	YES	YES	NO
10	WCDMA+ BT	YES	YES	NO
11	LTE+BT	YES	YES	NO

10.5. SAR Simultaneous Transmission Analysis

Band	Test Position	Scaled SAR				Σ SAR (W/kg)	SPLSR	Remark
		Head	WIFI 2.4G	WIFI 5 G	BT			
GSM850 (voice)	Left Cheek	0.14	0.26	0.18	0.08	0.40	N/A	N/A
	Left Tilt	0.10	0.14	0.16	0.04	0.24	N/A	N/A
	Right Cheek	0.17	0.24	0.26	0.06	0.41	N/A	N/A
	Right Tilt	0.09	0.12	0.12	0.03	0.21	N/A	N/A
GSM1900 (voice)	Left Cheek	0.22	0.26	0.18	0.08	0.48	N/A	N/A
	Left Tilt	0.14	0.14	0.16	0.04	0.24	N/A	N/A
	Right Cheek	0.24	0.24	0.26	0.06	0.48	N/A	N/A
	Right Tilt	0.11	0.12	0.12	0.03	0.23	N/A	N/A
WCDMA Band II	Left Cheek	0.23	0.26	0.18	0.08	0.49	N/A	N/A
	Left Tilt	0.11	0.14	0.16	0.04	0.25	N/A	N/A
	Right Cheek	0.24	0.24	0.26	0.06	0.48	N/A	N/A
	Right Tilt	0.14	0.12	0.12	0.03	0.28	N/A	N/A
WCDMA Band V	Left Cheek	0.07	0.26	0.18	0.08	0.33	N/A	N/A
	Left Tilt	0.04	0.14	0.16	0.04	0.18	N/A	N/A
	Right Cheek	0.09	0.24	0.26	0.06	0.33	N/A	N/A
	Right Tilt	0.04	0.12	0.12	0.03	0.16	N/A	N/A

Band	Test Position	RB allocation	Scaled				Σ SAR (W/kg)	SPLSR	Remark
			Head	WIFI2.4G	WIFI 5G	Bluetooth			
LTE Band 2 QPSK (20MHz)	Right Cheek	1	0.19	0.24	0.24	0.06	0.43	N/A	N/A
		50	0.21	0.24	0.24	0.06	0.45	N/A	N/A
	Right Tilt	1	0.23	0.12	0.12	0.03	0.35	N/A	N/A
		50	0.15	0.12	0.12	0.03	0.27	N/A	N/A
	Left Cheek	1	0.28	0.26	0.26	0.08	0.54	N/A	N/A
		50	0.23	0.26	0.26	0.08	0.49	N/A	N/A
	Left Tilt	1	0.18	0.14	0.14	0.04	0.32	N/A	N/A
		50	0.12	0.14	0.14	0.04	0.26	N/A	N/A

LTE Band 4 QPSK (20MHz)	Right Cheek	1	0.13	0.24	0.24	0.06	0.37	N/A	N/A
		50	0.18	0.24	0.24	0.06	0.42	N/A	N/A
	Right Tilt	1	0.15	0.12	0.12	0.03	0.27	N/A	N/A
		50	0.06	0.12	0.12	0.03	0.18	N/A	N/A
	Left Cheek	1	0.14	0.26	0.26	0.08	0.40	N/A	N/A
		50	0.11	0.26	0.26	0.08	0.37	N/A	N/A
	Left Tilt	1	0.13	0.14	0.14	0.04	0.27	N/A	N/A
		50	0.12	0.14	0.14	0.04	0.26	N/A	N/A
LTE Band 5 QPSK (10MHz)	Right Cheek	1	0.07	0.24	0.24	0.06	0.31	N/A	N/A
		25	0.11	0.24	0.24	0.06	0.35	N/A	N/A
	Right Tilt	1	0.04	0.12	0.12	0.03	0.16	N/A	N/A
		25	0.11	0.12	0.12	0.03	0.23	N/A	N/A
	Left Cheek	1	0.14	0.26	0.26	0.08	0.40	N/A	N/A
		25	0.11	0.26	0.26	0.08	0.37	N/A	N/A
	Left Tilt	1	0.10	0.14	0.14	0.04	0.24	N/A	N/A
		25	0.09	0.14	0.14	0.04	0.23	N/A	N/A
LTE Band 7 QPSK (20MHz)	Right Cheek	1	0.07	0.24	0.24	0.06	0.31	N/A	N/A
		50	0.12	0.24	0.24	0.06	0.36	N/A	N/A
	Right Tilt	1	0.04	0.12	0.12	0.03	0.16	N/A	N/A
		50	0.05	0.12	0.12	0.03	0.17	N/A	N/A
	Left Cheek	1	0.06	0.26	0.26	0.08	0.32	N/A	N/A
		50	0.04	0.26	0.26	0.08	0.30	N/A	N/A
	Left Tilt	1	0.05	0.14	0.14	0.04	0.19	N/A	N/A
		50	0.09	0.14	0.14	0.04	0.23	N/A	N/A
LTE Band 12 QPSK (10MHz)	Right Cheek	1	0.06	0.24	0.24	0.06	0.30	N/A	N/A
		25	0.08	0.24	0.24	0.06	0.32	N/A	N/A
	Right Tilt	1	0.07	0.12	0.12	0.03	0.19	N/A	N/A
		25	0.04	0.12	0.12	0.03	0.16	N/A	N/A
	Left Cheek	1	0.11	0.26	0.26	0.08	0.37	N/A	N/A
		25	0.08	0.26	0.26	0.08	0.34	N/A	N/A
	Left Tilt	1	0.10	0.14	0.14	0.04	0.24	N/A	N/A
		25	0.08	0.14	0.14	0.04	0.22	N/A	N/A
LTE Band 17 QPSK (10MHz)	Right Cheek	1	0.10	0.24	0.24	0.06	0.34	N/A	N/A
		25	0.08	0.24	0.24	0.06	0.32	N/A	N/A
	Right Tilt	1	0.09	0.12	0.12	0.03	0.21	N/A	N/A
		25	0.04	0.12	0.12	0.03	0.16	N/A	N/A
	Left Cheek	1	0.12	0.26	0.26	0.08	0.38	N/A	N/A
		25	0.07	0.26	0.26	0.08	0.33	N/A	N/A
	Left Tilt	1	0.08	0.14	0.14	0.04	0.22	N/A	N/A
		25	0.04	0.14	0.14	0.04	0.18	N/A	N/A

LTE Band 41 QPSK (20MHz)	Right Cheek	1	0.04	0.24	0.24	0.06	0.28	N/A	N/A
		50	0.11	0.24	0.24	0.06	0.35	N/A	N/A
	Right Tilt	1	0.06	0.12	0.12	0.03	0.18	N/A	N/A
		50	0.10	0.12	0.12	0.03	0.22	N/A	N/A
	Left Cheek	1	0.22	0.26	0.26	0.08	0.48	N/A	N/A
		50	0.16	0.26	0.26	0.08	0.42	N/A	N/A
	Left Tilt	1	0.12	0.14	0.14	0.04	0.26	N/A	N/A
		50	0.11	0.14	0.14	0.04	0.25	N/A	N/A

Band	Test Position	Scaled SAR				Σ SAR (W/kg)	SPLSR	Remark
		Body-Worn	WIFI 2.4G	WIFI 5G	BT			
GSM850 (voice)	Front	0.04	0.15	0.12	0.03	0.19	N/A	N/A
	Back	0.09	0.27	0.21	0.05	0.36	N/A	N/A
GSM850 (GPRS 4slot)	Front	0.39	0.15	0.12	0.03	0.54	N/A	N/A
	Back	0.53	0.27	0.21	0.05	0.80	N/A	N/A
GSM1900 (voice)	Front	0.09	0.15	0.12	0.03	0.24	N/A	N/A
	Back	0.13	0.27	0.21	0.05	0.40	N/A	N/A
GSM1900 (GPRS 4slot)	Front	0.11	0.15	0.12	0.03	0.27	N/A	N/A
	Back	0.16	0.27	0.21	0.05	0.43	N/A	N/A
WCDMA Band II	Front	0.31	0.15	0.12	0.03	0.46	N/A	N/A
	Back	0.41	0.27	0.21	0.05	0.67	N/A	N/A
WCDMA Band V	Front	0.12	0.15	0.12	0.03	0.27	N/A	N/A
	Back	0.16	0.27	0.21	0.05	0.43	N/A	N/A

Band	Test Position	RB allocation	Scaled				Σ SAR (W/kg)	SPLSR	Remark
			Body-Worn	WIFI 2.4G	WIFI 5G	Bluetooth			
LTE Band 2 QPSK (20MHz)	Front	1	0.26	0.12	0.19	0.03	0.38	N/A	N/A
		50	0.19	0.21	0.19	0.03	0.40	N/A	N/A
	Back	1	0.28	0.12	0.29	0.05	0.57	N/A	N/A
		50	0.16	0.21	0.29	0.05	0.37	N/A	N/A

LTE Band 4 QPSK (20MHz)	Front	1	0.13	0.12	0.19	0.03	0.25	N/A	N/A
		50	0.09	0.21	0.19	0.03	0.31	N/A	N/A
	Back	1	0.17	0.12	0.29	0.05	0.29	N/A	N/A
		50	0.06	0.21	0.29	0.05	0.27	N/A	N/A
LTE Band 5 QPSK (10MHz)	Front	1	0.11	0.12	0.19	0.03	0.23	N/A	N/A
		25	0.14	0.21	0.19	0.03	0.35	N/A	N/A
	Back	1	0.17	0.12	0.29	0.05	0.29	N/A	N/A
		25	0.15	0.21	0.29	0.05	0.36	N/A	N/A
LTE Band 7 QPSK (20MHz)	Front	1	0.41	0.12	0.19	0.03	0.43	N/A	N/A
		50	0.28	0.21	0.19	0.03	0.49	N/A	N/A
	Back	1	0.53	0.12	0.29	0.05	0.65	N/A	N/A
		50	0.44	0.21	0.29	0.05	0.65	N/A	N/A
LTE Band 12 QPSK (10MHz)	Front	1	0.12	0.12	0.19	0.03	0.24	N/A	N/A
		25	0.14	0.21	0.19	0.03	0.35	N/A	N/A
	Back	1	0.21	0.12	0.29	0.05	0.33	N/A	N/A
		25	0.15	0.21	0.29	0.05	0.36	N/A	N/A
LTE Band 17 QPSK (10MHz)	Front	1	0.17	0.12	0.19	0.03	0.29	N/A	N/A
		25	0.10	0.21	0.19	0.03	0.31	N/A	N/A
	Back	1	0.20	0.12	0.29	0.05	0.32	N/A	N/A
		25	0.12	0.21	0.29	0.05	0.33	N/A	N/A
LTE Band 41 QPSK (20MHz)	Front	1	0.49	0.12	0.19	0.03	0.61	N/A	N/A
		50	0.43	0.21	0.19	0.03	0.64	N/A	N/A
	Back	1	0.75	0.12	0.29	0.05	0.87	N/A	N/A
		50	0.36	0.21	0.29	0.05	0.57	N/A	N/A

Band	Test Position	Scaled SAR		Σ SAR (W/kg)	SPLSR	Remark
		Hotspot	WIFI 2.4G			
GSM850 (GPRS)	Front	0.15	0.12	0.27	N/A	N/A
	Back	0.24	0.32	0.56	N/A	N/A
	Right	0.11	0.09	0.21	N/A	N/A
	Left	0.13	/	0.13	N/A	N/A
	Bottom	0.07	/	0.07	N/A	N/A
	Top	/	0.02	0.02	N/A	N/A
GSM1900 (GPRS)	Front	0.15	0.12	0.27	N/A	N/A
	Back	0.21	0.32	0.53	N/A	N/A
	Right	0.18	0.09	0.27	N/A	N/A
	Left	0.15	/	0.15	N/A	N/A

	Bottom	0.08	/	0.08	N/A	N/A
	Top	/	0.02	0.02	N/A	N/A
WCDMA Band II	Front	0.08	0.12	0.20	N/A	N/A
	Back	0.14	0.32	0.46	N/A	N/A
	Right	0.10	0.09	0.19	N/A	N/A
	Left	0.09	/	0.09	N/A	N/A
	Bottom	0.03	/	0.03	N/A	N/A
	Top	/	0.02	0.02	N/A	N/A
WCDMA Band V	Front	0.11	0.12	0.23	N/A	N/A
	Back	0.16	0.32	0.48	N/A	N/A
	Right	0.10	0.09	0.19	N/A	N/A
	Left	0.11	/	0.11	N/A	N/A
	Bottom	0.04	/	0.04	N/A	N/A
	Top	/	0.02	0.02	N/A	N/A

Band	Test Position	RB allocation	Scaled		Σ SAR (W/kg)	SPLSR	Remark
			Hotspot	WIFI2.4G			
LTE Band 2 QPSK (20MHz)	Front	1	0.17	0.12	0.29	N/A	N/A
		50	0.20	0.12	0.32	N/A	N/A
	Back	1	0.30	0.32	0.62	N/A	N/A
		50	0.27	0.32	0.59	N/A	N/A
	Right	1	0.12	0.09	0.21	N/A	N/A
		50	0.10	0.09	0.19	N/A	N/A
	Left	1	0.15	/	0.15	N/A	N/A
		50	0.12	/	0.12	N/A	N/A
	Bottom	1	0.07	/	0.07	N/A	N/A

	Top	50	0.04	/	0.04	N/A	N/A
		1	/	0.02	0.02	N/A	N/A
		50	/	0.02	0.02	N/A	N/A
LTE Band 4 QPSK (20MHz)	Front	1	0.25	0.12	0.37	N/A	N/A
		50	0.24	0.12	0.36	N/A	N/A
	Back	1	0.27	0.32	0.59	N/A	N/A
		50	0.21	0.32	0.53	N/A	N/A
	Right	1	0.13	0.09	0.22	N/A	N/A
		50	0.26	0.09	0.35	N/A	N/A
	Left	1	0.21	/	0.21	N/A	N/A
		50	0.09	/	0.09	N/A	N/A
	Bottom	1	0.06	/	0.06	N/A	N/A
		50	0.03	/	0.03	N/A	N/A
	Top	1	/	0.02	0.02	N/A	N/A
		50	/	0.02	0.02	N/A	N/A
LTE Band 5 QPSK (10MHz)	Front	1	0.15	0.12	0.27	N/A	N/A
		25	0.11	0.12	0.23	N/A	N/A
	Back	1	0.16	0.32	0.48	N/A	N/A
		25	0.13	0.32	0.45	N/A	N/A
	Right	1	0.12	0.09	0.21	N/A	N/A
		25	0.07	0.09	0.16	N/A	N/A
	Left	1	0.15	/	0.15	N/A	N/A
		25	0.09	/	0.09	N/A	N/A
	Bottom	1	0.08	/	0.08	N/A	N/A
		25	0.04	/	0.04	N/A	N/A
	Top	1	/	0.02	0.02	N/A	N/A
		25	/	0.02	0.02	N/A	N/A

LTE Band 7 QPSK (20MHz)	Front	1	0.27	0.12	0.39	N/A	N/A
		50	0.23	0.12	0.35	N/A	N/A
	Back	1	0.47	0.32	0.79	N/A	N/A
		50	0.44	0.32	0.76	N/A	N/A
	Right	1	0.07	0.09	0.16	N/A	N/A
		50	0.07	0.09	0.16	N/A	N/A
	Left	1	0.09	/	0.09	N/A	N/A
		50	0.11	/	0.11	N/A	N/A
	Bottom	1	0.02	/	0.02	N/A	N/A
		50	0.01	/	0.01	N/A	N/A
	Top	1	/	0.02	0.02	N/A	N/A
		50	/	0.02	0.02	N/A	N/A

LTE Band 12 QPSK (10MHz)	Front	1	0.13	0.12	0.25	N/A	N/A
		25	0.23	0.12	0.35	N/A	N/A
	Back	1	0.16	0.32	0.48	N/A	N/A
		25	0.22	0.32	0.54	N/A	N/A
	Right	1	0.15	0.09	0.24	N/A	N/A
		25	0.09	0.09	0.18	N/A	N/A
	Left	1	0.15	/	0.15	N/A	N/A
		25	0.10	/	0.10	N/A	N/A
	Bottom	1	0.05	/	0.05	N/A	N/A
		25	0.02	/	0.02	N/A	N/A
	Top	1	/	0.02	0.02	N/A	N/A
		25	/	0.02	0.02	N/A	N/A
LTE Band 17 QPSK (10MHz)	Front	1	0.15	0.12	0.27	N/A	N/A
		25	0.10	0.12	0.22	N/A	N/A
	Back	1	0.19	0.32	0.41	N/A	N/A
		25	0.16	0.32	0.48	N/A	N/A
	Right	1	0.12	0.09	0.21	N/A	N/A
		25	0.09	0.09	0.18	N/A	N/A
	Left	1	0.12	/	0.12	N/A	N/A
		25	0.10	/	0.10	N/A	N/A
	Bottom	1	0.04	/	0.04	N/A	N/A
		25	0.02	/	0.02	N/A	N/A
	Top	1	/	0.02	0.02	N/A	N/A
		25	/	0.02	0.02	N/A	N/A

LTE Band 41 QPSK (20MHz)	Front	1	0.29	0.12	0.41	N/A	N/A
		50	0.21	0.12	0.33	N/A	N/A
	Back	1	0.59	0.32	0.91	N/A	N/A
		50	0.46	0.32	0.78	N/A	N/A
	Right	1	0.16	0.09	0.25	N/A	N/A
		50	0.10	0.09	0.19	N/A	N/A
	Left	1	0.20	/	0.20	N/A	N/A
		50	0.11	/	0.11	N/A	N/A
	Bottom	1	0.09	/	0.09	N/A	N/A
		50	0.03	/	0.03	N/A	N/A
	Top	1	/	0.02	0.02	N/A	N/A
		50	/	0.02	0.02	N/A	N/A

Simultaneous Transmission Conclusion

The above numerical summed SAR results for all the case simultaneous transmission conditions were below the SAR limit. Therefore, the above analysis is sufficient to determine that simultaneous transmission cases will not exceed the SAR limit and therefore measured volumetric simultaneous SAR summation is not required per FCC KDB Publication 447498 D01v05r02.

10.6. Measurement Uncertainty (450MHz-3GHz)

UNCERTAINTY EVALUATION FOR HEADSET SAR									
Uncertainty Component	Description	Uncertainty Value(%)	Probably Distribution	Div.	(Ci) 1g	(Ci) 10g	Std. Unc. 1g(%)	Std. Unc. 10g(%)	v
Measurement system									
Probe calibration	7.2.1	5.8	N	1	1	1	5.8	5.8	∞
Axial isotropy	7.2.1.1	3.5	R	$\sqrt{3}$	$(1-C_p)^{1/2}$	$(1-C_p)^{1/2}$	1.43	1.43	∞
Hemispherical isotropy	7.2.1.1	5.9	R	$\sqrt{3}$	$\sqrt{C_p}$	$\sqrt{C_p}$	2.41	2.41	∞
Boundary Effects	7.2.1.4	1.00	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	7.2.1.2	4.70	R	$\sqrt{3}$	1	1	2.71	2.71	∞
System detection limits	7.2.1.2	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Modulation Response	7.2.1.3	3	N	1	1	1	3.00	3.00	∞
Readout Electronics	7.2.1.5	0.5	N	1	1	1	0.50	0.50	∞
Response Time	7.2.1.6	0	R	$\sqrt{3}$	1	1	0.00	0.00	∞
Integration Time	7.2.1.7	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
RF Ambient Conditions-Noise	7.2.3.7	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
RF Ambient Conditions-Reflection	7.2.3.7	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe positioned mechanical Tolerance	7.2.2.1	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Probe positioning with respect to phantom shell	7.2.2.3	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Extrapolation interpolation and integration algorithms for Max.SAR evaluation	7.2.4	2.3	R	1	1	1	1.33	1.33	∞
Test sample related									
Test sample positioning	7.2.2.4.4	2.6	N	1	1	1	2.60	2.60	∞
Device holder uncertainty	7.2.2.4.2 7.2.2.4.3	3	N	1	1	1	3.00	3.00	∞
output power variation-SAR drift measurement	7.2.3.6	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞
SAR scaling	7.2.5	2	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Phantom and tissue parameters									
Phantom uncertainty (shape and thickness tolerances)	7.2.2.2	4	R	$\sqrt{3}$	1	1	2.31	2.31	∞
uncertainty in SAR correction for deviation (in permittivity and conductivity)	7.2.6	2	N	1	1	0.84	2.00	1.68	∞
Liquid conductivity (temperature uncertainty)	7.2.3.5	2.5	N	1	0.78	0.71	1.95	1.78	∞
Liquid conductivity -measurement uncertainty	7.2.3.3	4	N	1	0.23	0.26	0.92	1.04	∞
Liquid permittivity (temperature uncertainty)	7.2.3.5	2.5	N	1	0.78	0.71	1.95	1.78	∞
Liquid permittivity measurement uncertainty	7.2.3.4	5	N	1	0.23	0.26	1.15	1.30	∞
Combined standard uncertainty			RSS				10.83	10.54	
Expanded uncertainty (95%CONFIDENCEINTERVAL)			k				21.26	21.08	

UNCERTAINTY FOR PERFORMANCE CHECK

Uncertainty Component	Description	Uncertainty Value(%)	Probably Distribution	Div.	(Ci) 1g	(Ci) 10g	Std. Unc. 1g(%)	Std. Unc. 10g(%)	v
Measurement system									
Probe calibration	7.2.1	5.8	N	1	1	1	5.8	5.8	∞
Axial isotropy	7.2.1.1	3.5	R	$\sqrt{3}$	$(1-C_p)^{1/2}$	$(1-C_p)^{1/2}$	1.43	1.43	∞
Hemispherical isotropy	7.2.1.1	5.9	R	$\sqrt{3}$	$\sqrt{C_p}$	$\sqrt{C_p}$	2.41	2.41	∞
Boundary Effects	7.2.1.4	1.00	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	7.2.1.2	4.70	R	$\sqrt{3}$	1	1	2.71	2.71	∞
System detection limits	7.2.1.2	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Modulation Response	7.2.1.3	3	N	1	1	1	0.00	0.00	∞
Readout Electronics	7.2.1.5	0.5	N	1	1	1	0.50	0.50	∞
Response Time	7.2.1.6	0	R	$\sqrt{3}$	1	1	0.00	0.00	∞
Integration Time	7.2.1.7	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
RF Ambient Conditions-Noise	7.2.3.7	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
RF Ambient Conditions-Reflection	7.2.3.7	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe positioned mechanical Tolerance	7.2.2.1	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Probe positioning with respect to phantom shell	7.2.2.3	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Extrapolation interpolation and integration algorithms for Max.SAR evaluation	7.2.4	2.3	R	1	1	1	1.33	1.33	∞
Dipole									
Deviation of experimental source from numerical source		4	N	1	1	1	4.00	4.00	∞
Input power and SAR drift measurement	7.2.3.6	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Dipole axis to liquid distance		2	R	$\sqrt{3}$	1	1			∞
Phantom and tissue parameters									
Phantom uncertainty (shape and thickness tolerances)	7.2.2.2	4	R	$\sqrt{3}$	1	1	2.31	2.31	∞
uncertainty in SAR correction for deviation (in permittivity and conductivity)	7.2.6	2	N	1	1	0.84	2.00	1.68	∞
Liquid conductivity (temperature uncertainty)	7.2.3.5	2.5	N	1	0.78	0.71	1.95	1.78	∞
Liquid conductivity -measurement uncertainty	7.2.3.3	4	N	1	0.23	0.26	0.92	1.04	∞
Liquid permittivity (temperature uncertainty)	7.2.3.5	2.5	N	1	0.78	0.71	1.95	1.78	∞
Liquid permittivity measurement uncertainty	7.2.3.4	5	N	1	0.23	0.26	1.15	1.30	∞
Combined standard uncertainty			RSS				10.15	10.05	
Expanded uncertainty (95%CONFIDENCEINTE RVAL			k				20.29	20.10	

10.7. Test Equipment List

Test Equipment	Manufacturer	Model	Serial Number	Calibration	
				Calibration Date (D.M.Y)	Calibration Due (D.M.Y)
PC	Lenovo	H3050	N/A	N/A	N/A
Signal Generator	Agilent	N5182A	MY47070282	Jul. 04, 2022	Jul. 03, 2023
Multimeter	Keithley	Multimeter 2000	4078275	Jul. 04, 2022	Jul. 03, 2023
Network Analyzer	Agilent	8753E	US38432457	Jul. 04, 2022	Jul. 03, 2023
Wideband Radio Communication Tester	R&S	CMW500	114220	Jul. 04, 2022	Jul. 03, 2023
Power Meter	Agilent	E4418B	GB43312526	Jul. 04, 2022	Jul. 03, 2023
Power Meter	Agilent	E4416A	MY45101555	Jul. 04, 2022	Jul. 03, 2023
Power Meter	Agilent	N1912A	MY50001018	Jul. 04, 2022	Jul. 03, 2023
Power Sensor	Agilent	E9301A	MY41497725	Jul. 04, 2022	Jul. 03, 2023
Power Sensor	Agilent	E9327A	MY44421198	Jul. 04, 2022	Jul. 03, 2023
Power Sensor	Agilent	E9323A	MY53070005	Jul. 04, 2022	Jul. 03, 2023
Power Amplifier	PE	PE15A4019	112342	N/A	N/A
Directional Coupler	Agilent	722D	MY52180104	N/A	N/A
Attenuator	Chensheng	FF779	134251	N/A	N/A
E-Field PROBE	MVG	SSE2	SN 36/20 EPGO346	Oct. 07, 2021	Oct. 08, 2022
DIPOLE 750	MVG	SID750	SN 16/15 DIP 0G750-368	Jun. 05, 2021	Jun. 04, 2024
DIPOLE 835	MVG	SID835	SN 16/15 DIP 0G835-369	Jun. 05, 2021	Jun. 04, 2024
DIPOLE 1800	MVG	SID 1800	SN 16/15 DIP 1G800-371	Jun. 05, 2021	Jun. 04, 2024
DIPOLE 1900	MVG	SID1900	SN 16/15 DIP 1G900-372	Jun. 05, 2021	Jun. 04, 2024
DIPOLE 2450	MVG	SID 2450	SN 16/15 DIP 2G450-374	Jun. 05, 2021	Jun. 04, 2024
DIPOLE 2600	MVG	SID 2600	SN 16/15 DIP 2G600-375	Jun. 05, 2021	Jun. 04, 2024
DIPOLE 5G	MVG	SID 5G	SN 13/14 WGA32	May. 15, 2021	May. 14, 2024
Limesar Dielectric Probe	MVG	SCLMP	SN 19/15 OCPG71	Jun. 05, 2021	Jun. 04, 2024
Communication Antenna	MVG	ANTA59	SN 39/14 ANTA59	N/A	N/A
Mobile Phone Position Device	MVG	MSH101	SN 19/15 MSH101	N/A	N/A
Dummy Probe	MVG	DP66	SN 13/15 DP66	N/A	N/A
SAM PHANTOM	MVG	SAM120	SN 19/15 SAM120	N/A	N/A
PHANTOM TABLE	MVG	TABP101	SN 19/15 TABP101	N/A	N/A
Robot TABLE	MVG	TABP61	SN 19/15 TABP61	N/A	N/A
6 AXIS ROBOT	KUKA	KR6-R900	501822	N/A	N/A

Note:1.N/A means this equipment no need to calibrate

2.Each Time means this device need to calibrate every use time

3. The dipole was not damaged properly repaired.

4. The measured SAR deviates from the calibrated SAR value by less than 10%

5. The most recent return-loss result meets the required 20 dB minimum return-loss requirement

6. The most recent measurement of the real or imaginary parts of the impedance deviates by less than 5 Ω from the previous measurement.

11. System Check Results

Date of measurement: 08/30/2022 Test mode: 750 (Head)

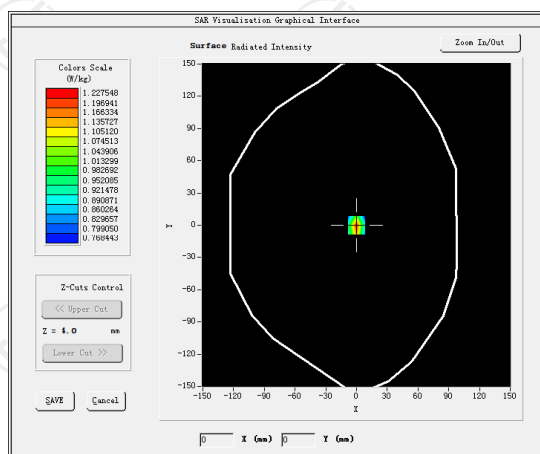
Product Description: Validation

Dipole Model: SID750

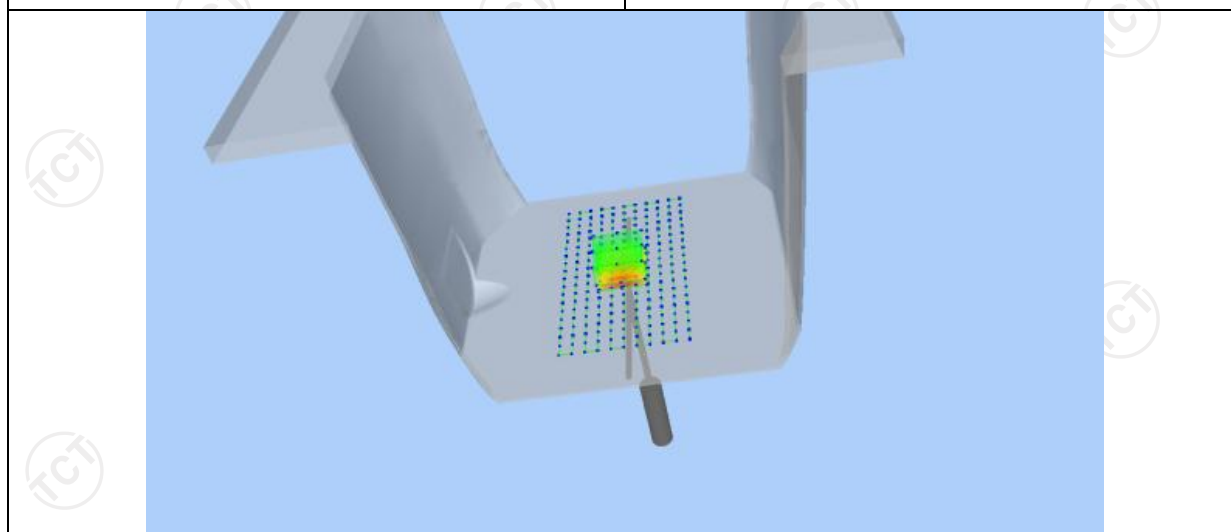
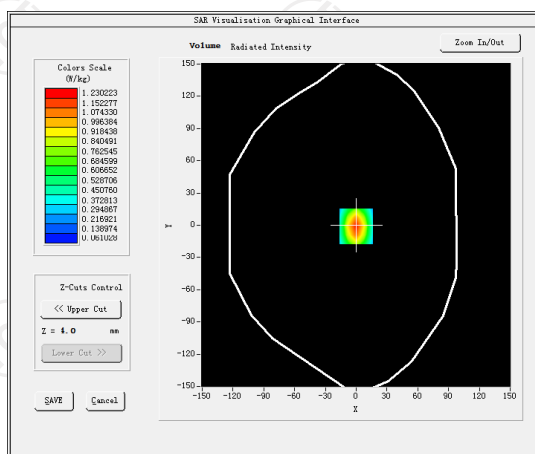
E-Field Probe: SSE2 (SN 36/20 EPGO346)

Phantom	Validation plane
Input Power	100mW
Crest Factor	1.0
Probe Conversion factor	1.71
Frequency (MHz)	750.000000
Relative permittivity (real part)	40.761260
Relative permittivity (imaginary part)	17.130904
Conductivity (S/m)	0.931220
Variation (%)	-0.090000
SAR 10g (W/Kg)	0.540421
SAR 1g (W/Kg)	0.804230

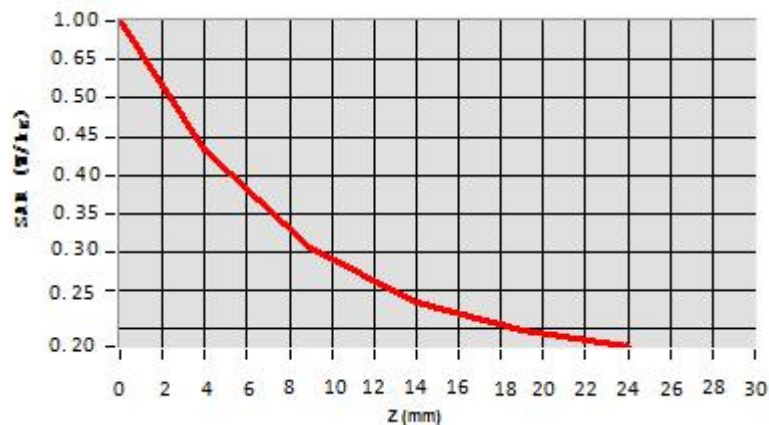
SURFACE SAR



VOLUME SAR



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.0014	0.4404	0.3024	0.2342	0.2221



Hot spot position



Date of measurement: 09/05/2022 Test mode: 835 (Head)

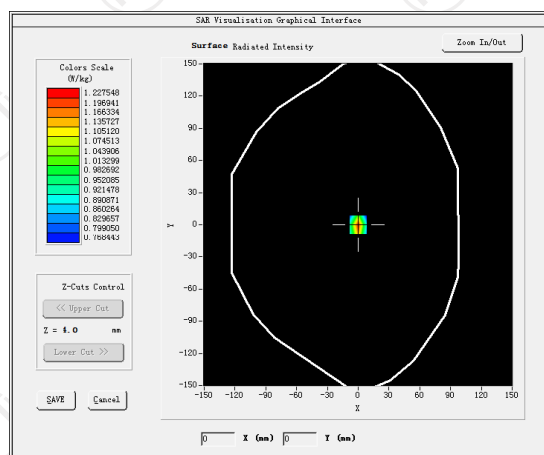
Product Description: Validation

Dipole Model: SID835

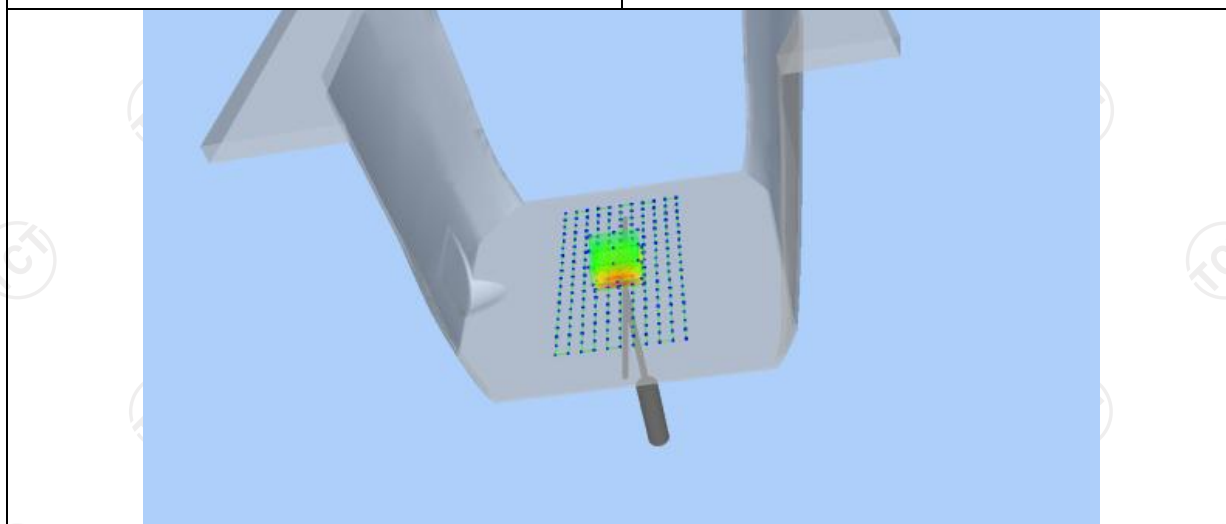
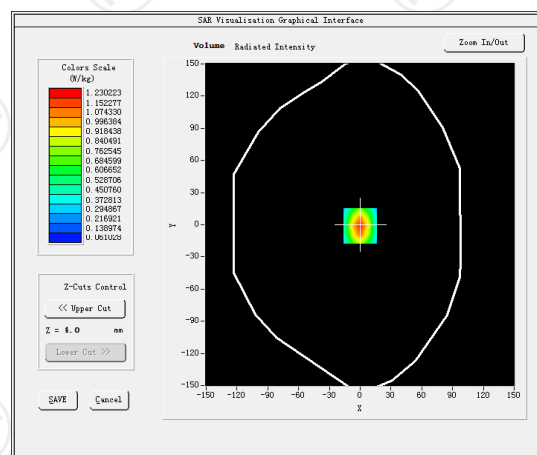
E-Field Probe: SSE2 (SN 36/20 EPGO346)

Phantom	Validation plane
Input Power	100mW
Crest Factor	1.0
Probe Conversion factor	1.80
Frequency (MHz)	835.000000
Relative permittivity (real part)	41.417760
Relative permittivity (imaginary part)	18.129852
Conductivity (S/m)	0.874923
Variation (%)	-0.090000
SAR 10g (W/Kg)	0.570250
SAR 1g (W/Kg)	0.886135

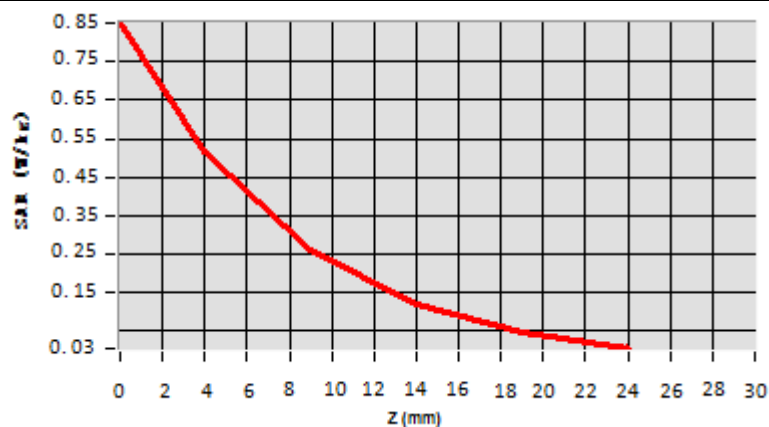
SURFACE SAR



VOLUME SAR



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.8625	0.5302	0.2594	0.1302	0.1025



Hot spot position



Date of measurement: 09/08/2022 Test mode: 1800MHz (Head)

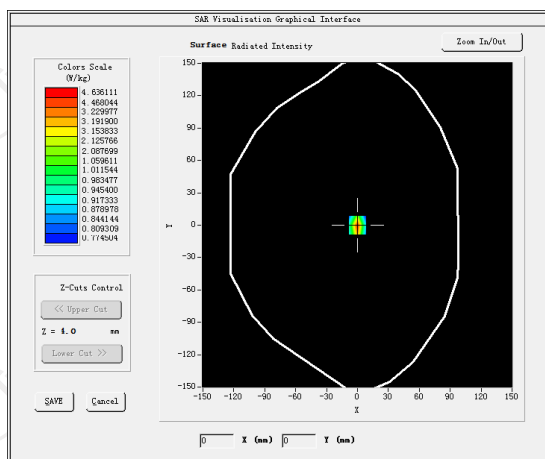
Product Description: Validation

Dipole Model: SID1800

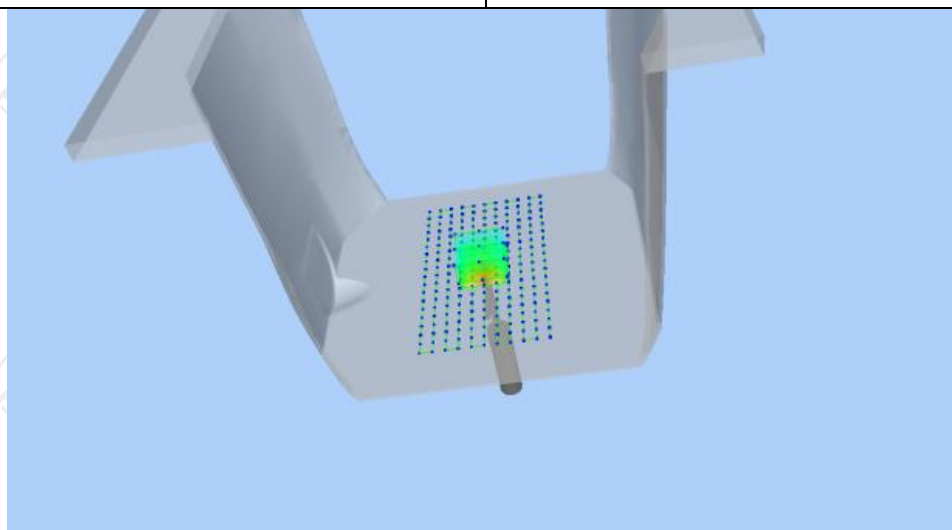
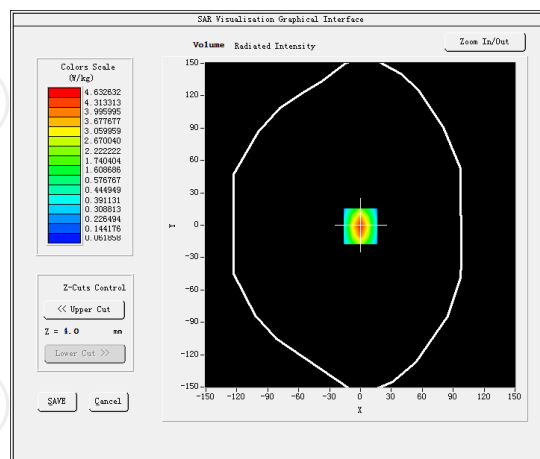
E-Field Probe: SSE2 (SN 36/20 EPGO346)

Phantom	Validation plane
Input Power	100mW
Crest Factor	1.0
Probe Conversion factor	2.08
Frequency (MHz)	1800.000000
Relative permittivity (real part)	39.070000
Relative permittivity (imaginary part)	14.000000
Conductivity (S/m)	1.380000
Variation (%)	1.250000
SAR 10g (W/Kg)	2.201458
SAR 1g (W/Kg)	3.752497

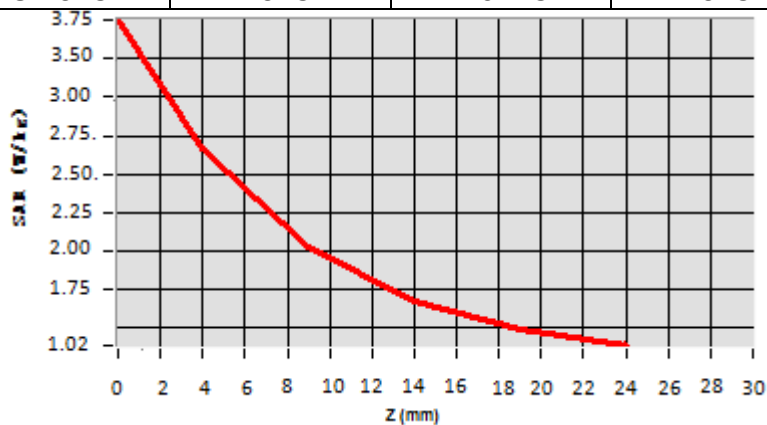
SURFACE SAR



VOLUME SAR



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	3.7625	2.6254	2.0245	1.6254	1.0214



Hot spot position



Date of measurement: 09/13/2022 Test mode: 1900MHz (Head)

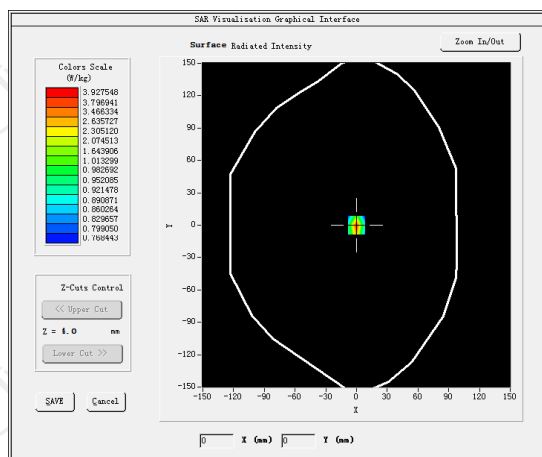
Product Description: Validation

Dipole Model: SID1900

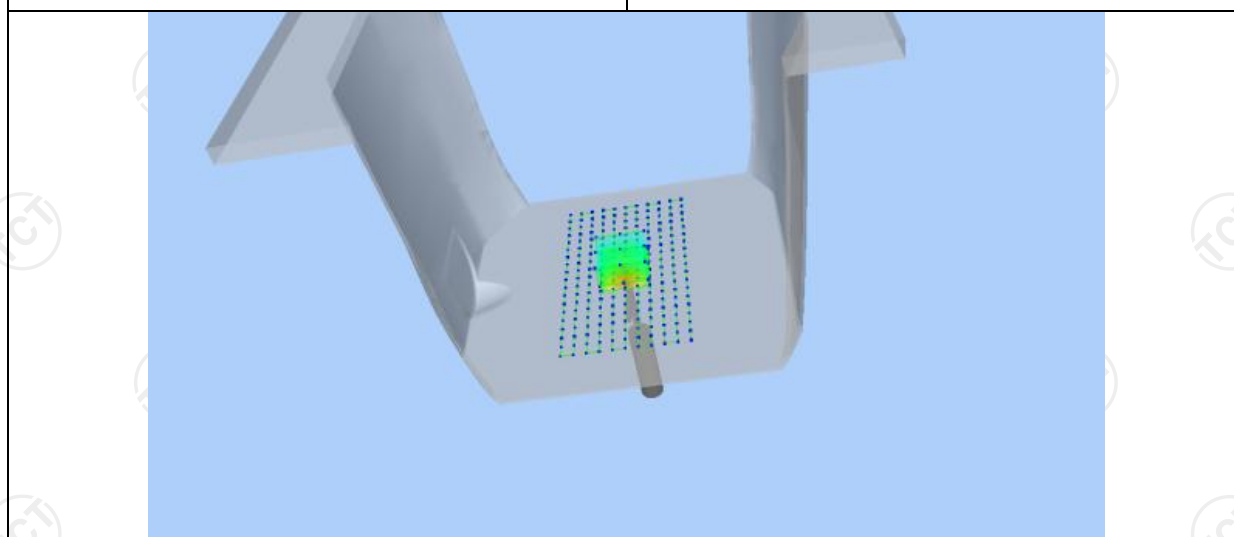
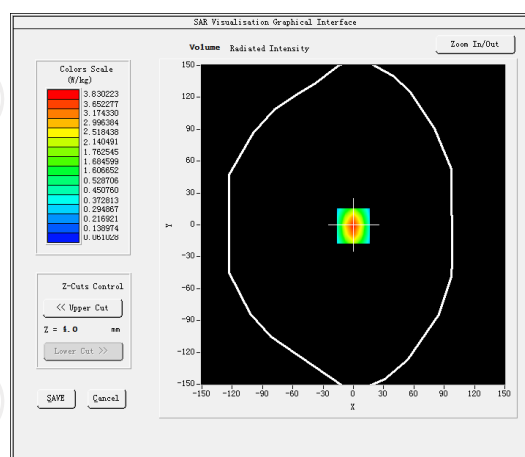
E-Field Probe: SSE2 (SN 36/20 EPGO346)

Phantom	Validation plane
Input Power	100mW
Crest Factor	1.0
Probe Conversion factor	2.23
Frequency (MHz)	1900.000000
Relative permittivity (real part)	39.076721
Relative permittivity (imaginary part)	12.607061
Conductivity (S/m)	1.367609
Variation (%)	-0.910000
SAR 10g (W/Kg)	1.899324
SAR 1g (W/Kg)	3.576354

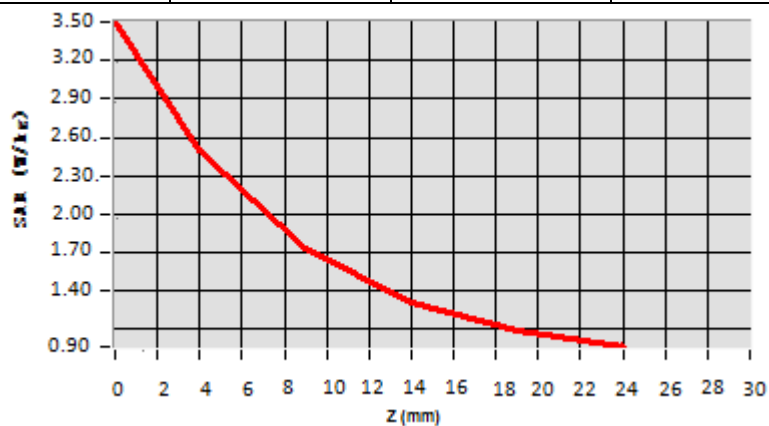
SURFACE SAR



VOLUME SAR



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	3.5325	2.5687	1.7025	1.3025	0.1125



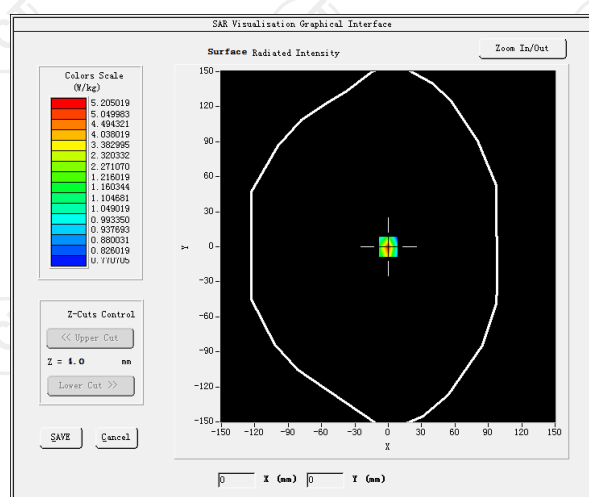
Hot spot position



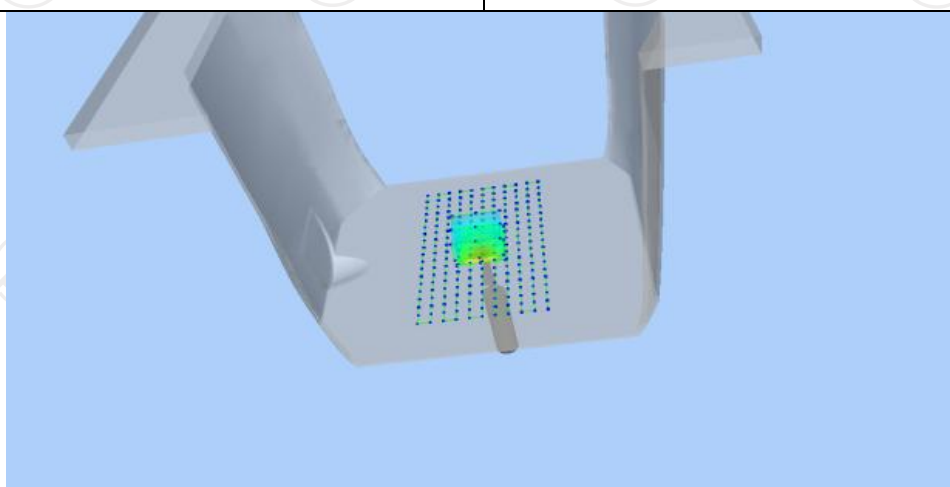
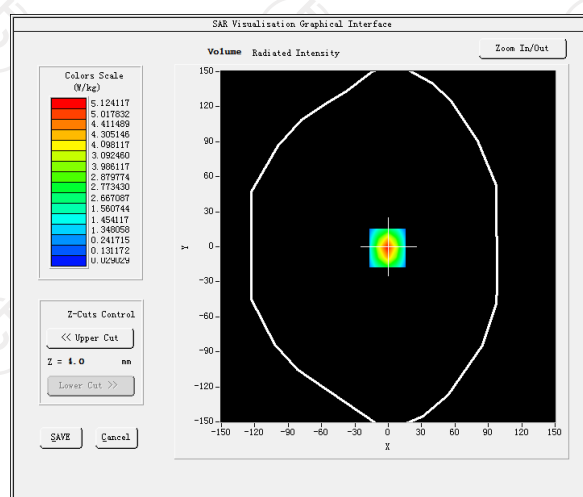
Date of measurement: 09/16/2022 Test mode: 2450MHz (Head)
 Product Description: Validation
 Dipole Model: SID2450
 E-Field Probe: SSE2 (SN 36/20 EPGO346)

Phantom	Validation plane
Input Power	100mW
Crest Factor	1.0
Probe Conversion factor	2.31
Frequency (MHz)	2450.000000
Relative permittivity (real part)	37.821613
Relative permittivity (imaginary part)	13.546980
Conductivity (S/m)	1.834111
Variation (%)	-0.470000
SAR 10g (W/Kg)	2.364445
SAR 1g (W/Kg)	4.994244

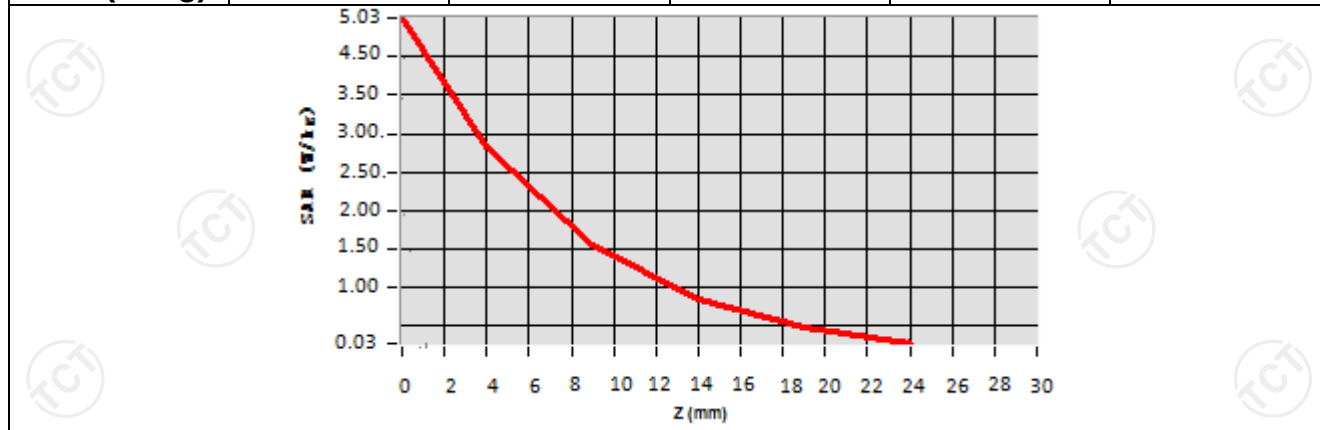
SURFACE SAR



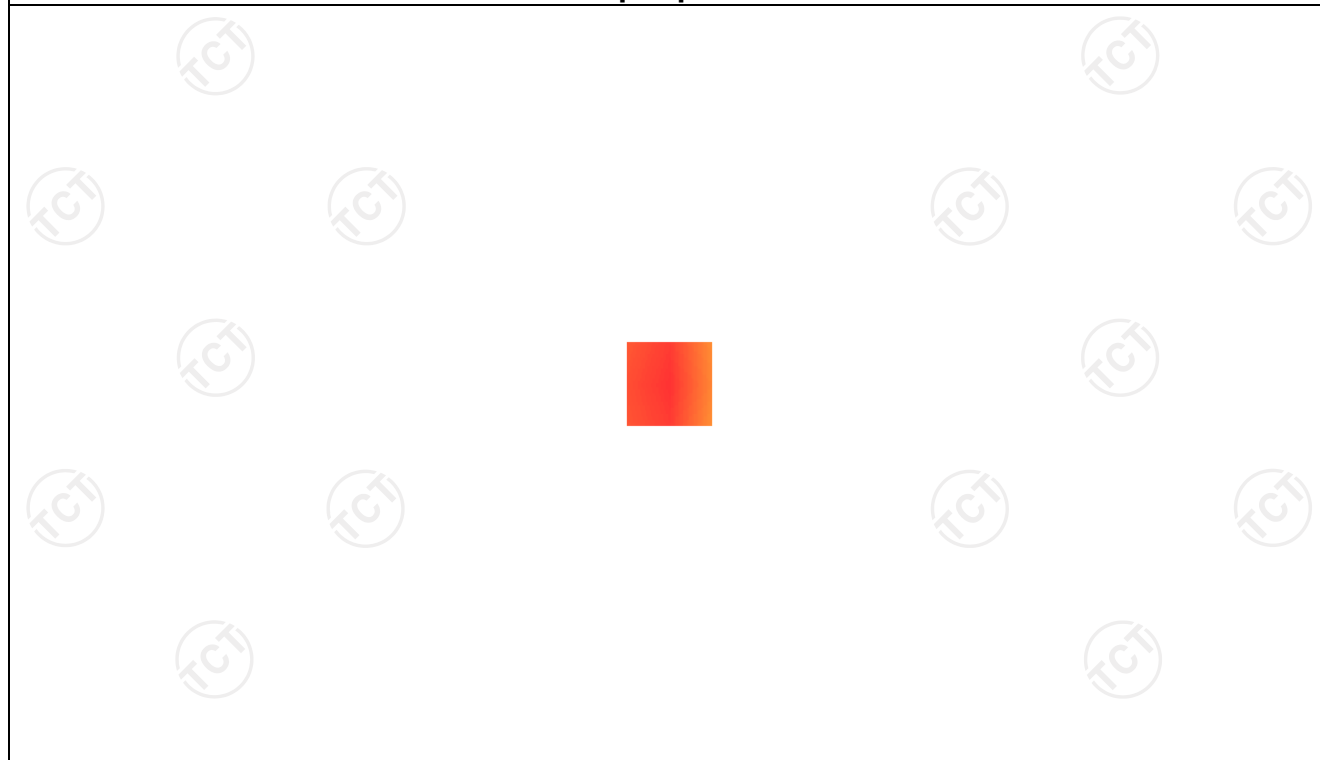
VOLUME SAR



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	5.0262	2.7584	1.5026	0.8252	0.4125



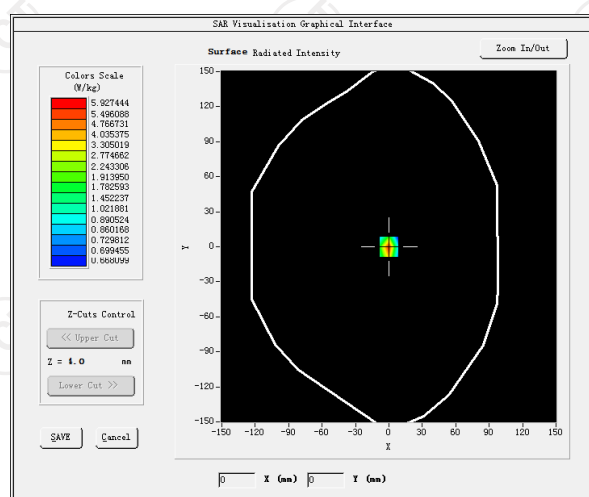
Hot spot position



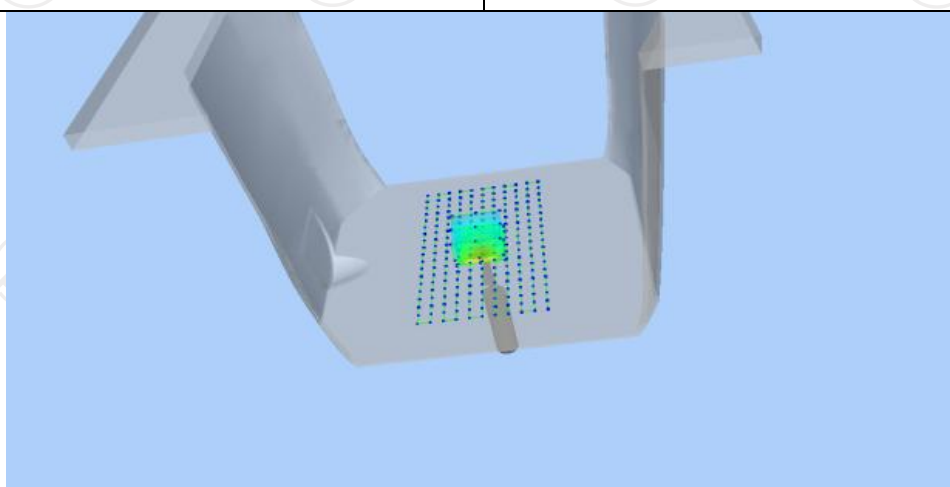
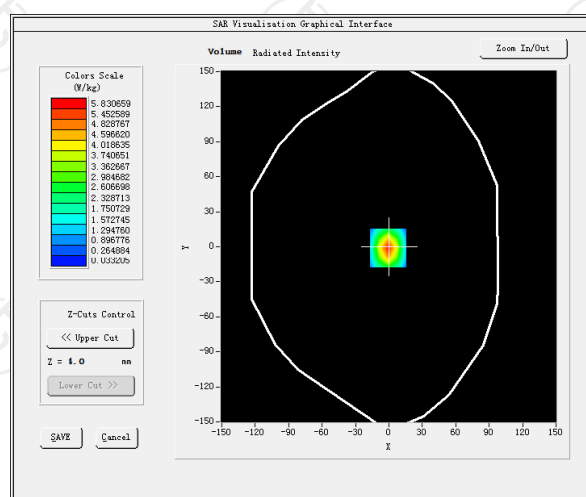
Date of measurement: 09/19/2022 Test mode: 2600MHz (Head)
 Product Description: Validation
 Dipole Model: SID2600
 E-Field Probe: SSE2 (SN 36/20 EPGO346)

Phantom	Validation plane
Input Power	100mW
Crest Factor	1.0
Probe Conversion factor	4.36
Frequency (MHz)	2535.000000
Relative permittivity (real part)	38.853477
Relative permittivity (imaginary part)	13.545489
Conductivity (S/m)	1.922567
Variation (%)	-1.360000
SAR 10g (W/Kg)	2.430127
SAR 1g (W/Kg)	5.413744

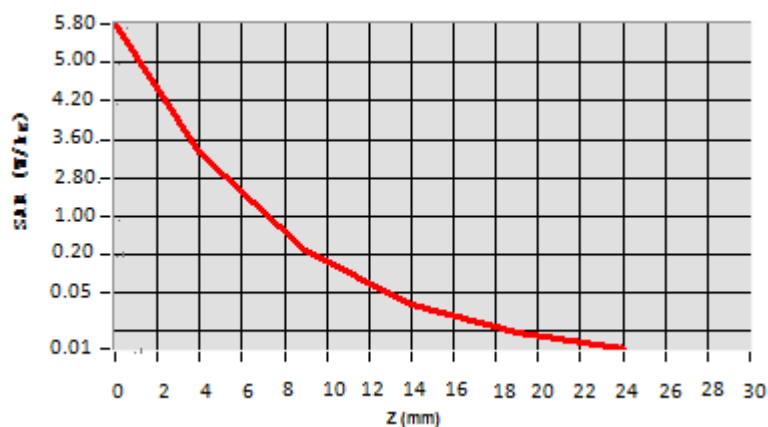
SURFACE SAR



VOLUME SAR



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	5.7893	3.2375	0.2098	0.0387	0.0249



Hot spot position



Date of measurement: 09/21/2022 Test mode: 5200MHz (Head)

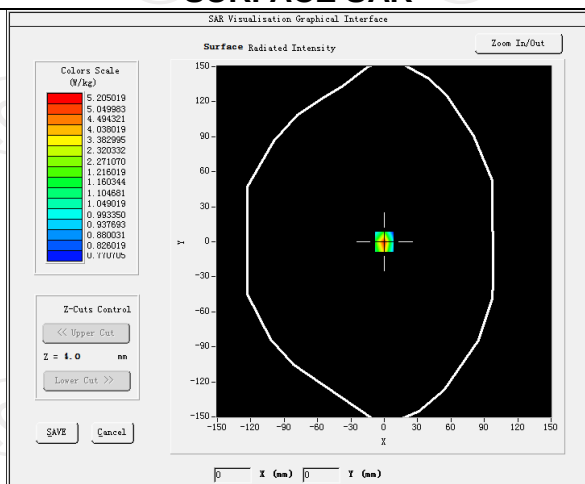
Product Description: Validation

Dipole Model: SID5200

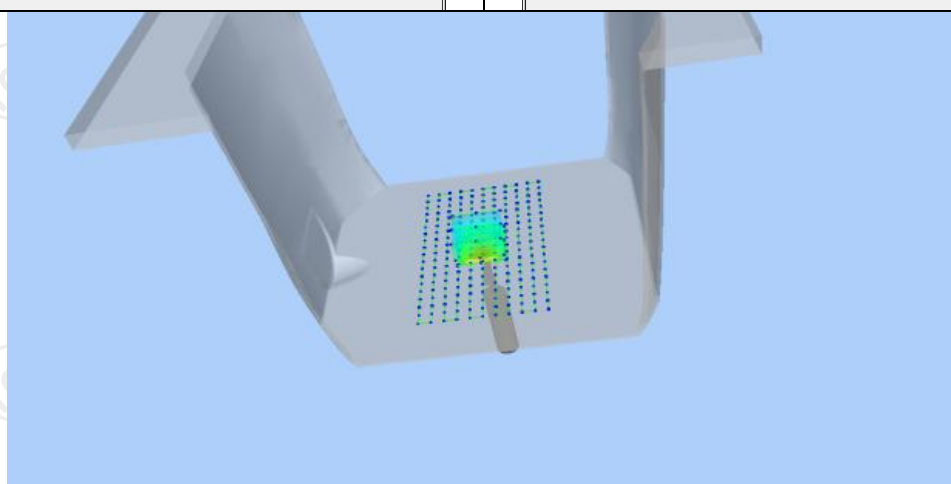
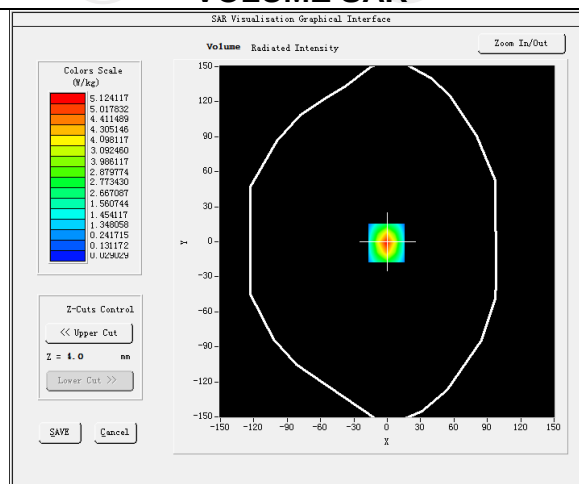
E-Field Probe: SSE2 (SN 36/20 EPGO346)

Phantom	Validation plane
Input Power	100mW
Crest Factor	1.0
Probe Conversion factor	2.01
Frequency (MHz)	5200.000000
Relative permittivity (real part)	35.068832
Relative permittivity (imaginary part)	13.679428
Conductivity (S/m)	5.220788
Variation (%)	-0.820000
SAR 10g (W/Kg)	1.807521
SAR 1g (W/Kg)	5.012481

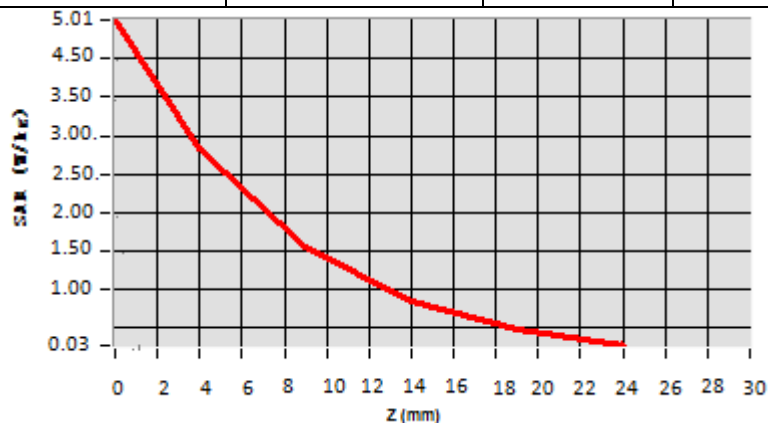
SURFACE SAR



VOLUME SAR



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	5.0132	2.7584	1.5026	0.8252	0.4125



Hot spot position



Date of measurement: 09/23/2022 Test mode: 5300MHz (Head)

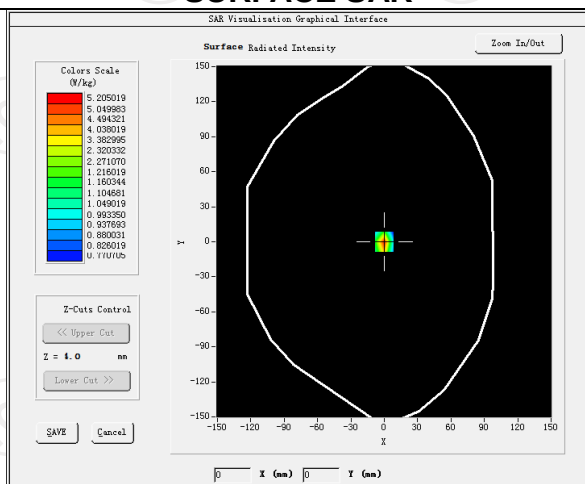
Product Description: Validation

Dipole Model: SID5300

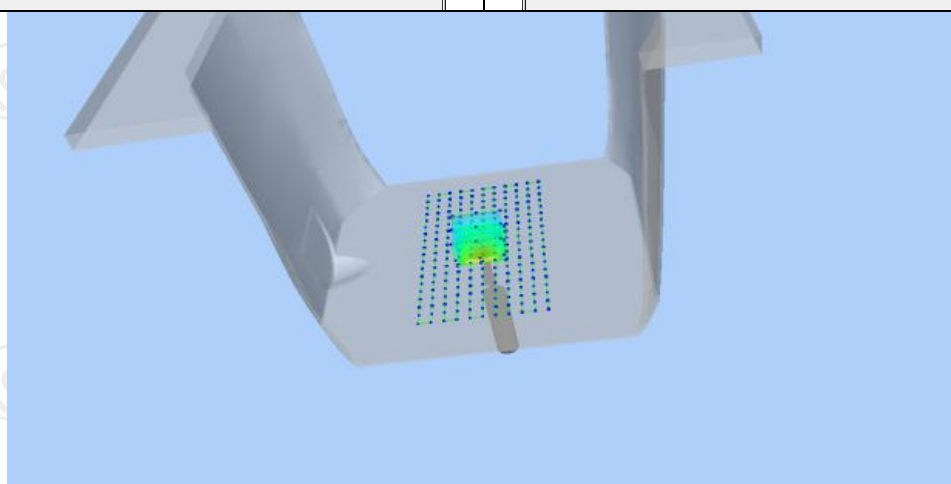
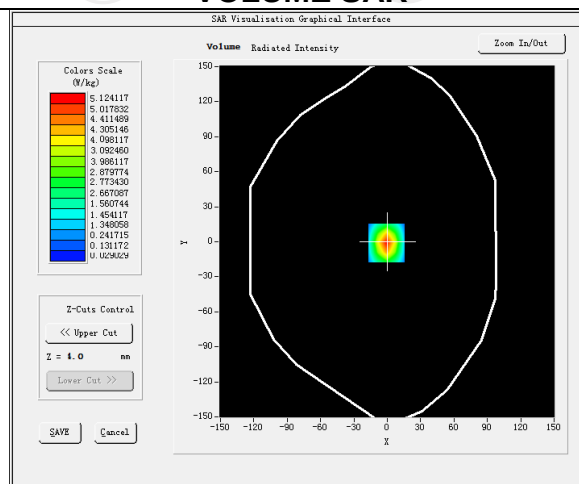
E-Field Probe: SSE2 (SN 36/20 EPGO346)

Phantom	Validation plane
Input Power	100mW
Crest Factor	1.0
Probe Conversion factor	1.94
Frequency (MHz)	5300.000000
Relative permittivity (real part)	36.068832
Relative permittivity (imaginary part)	13.680430
Conductivity (S/m)	4.690788
Variation (%)	-0.820000
SAR 10g (W/Kg)	17.217521
SAR 1g (W/Kg)	5.922481

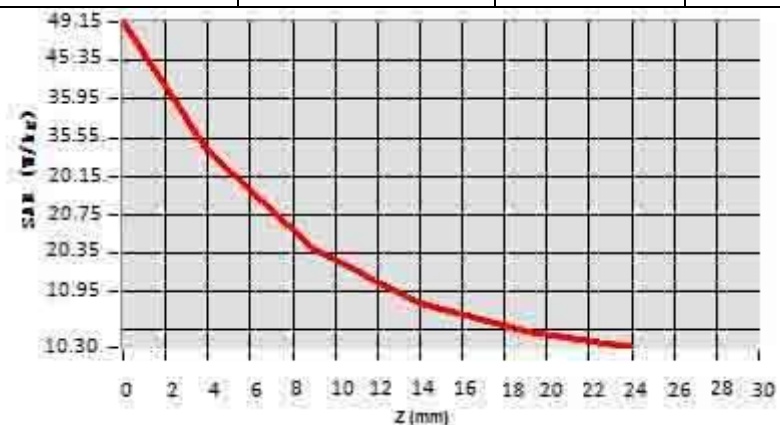
SURFACE SAR



VOLUME SAR



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	49.15	27.584	20.346	11.252	5.4125



Hot spot position



Date of measurement: 09/29/2022 Test mode: 5800MHz (Head)

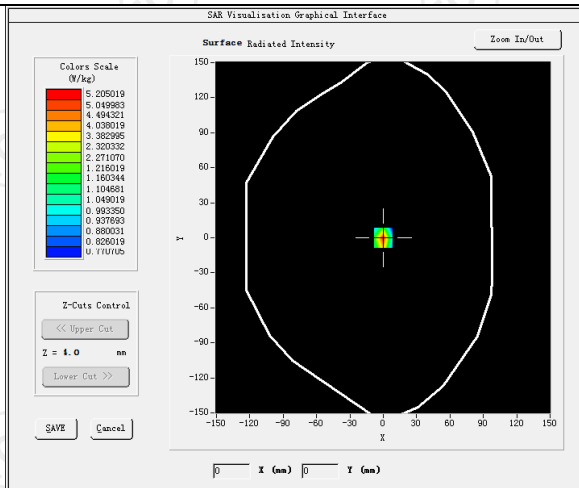
Product Description: Validation

Dipole Model: SID5800

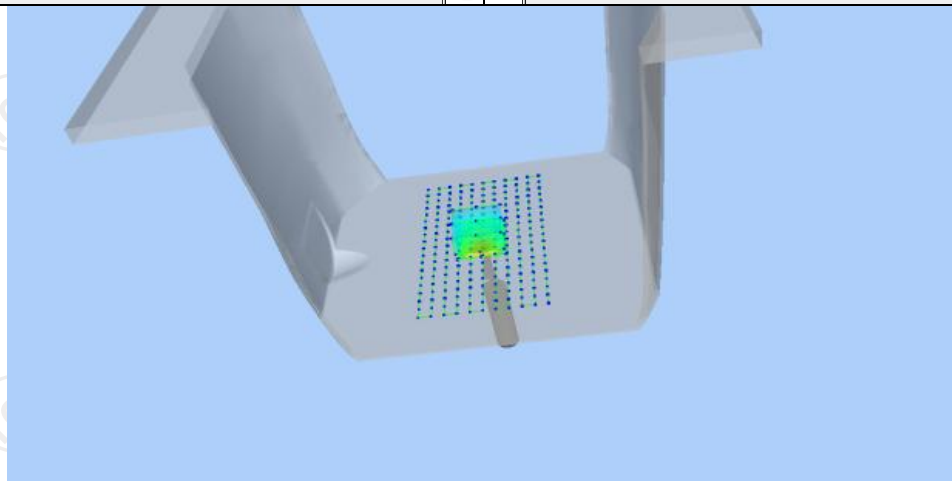
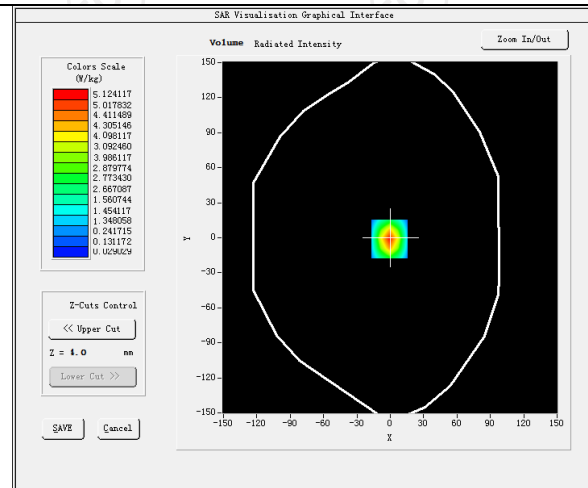
E-Field Probe: SSE2 (SN 36/20 EPGO346)

Phantom	Validation plane
Input Power	100mW
Crest Factor	1.0
Probe Conversion factor	2.06
Frequency (MHz)	5800.000000
Relative permittivity (real part)	38.352823
Relative permittivity (imaginary part)	13.671675
Conductivity (S/m)	5.430828
Variation (%)	-2.800000
SAR 10g (W/Kg)	2.005121
SAR 1g (W/Kg)	5.063573

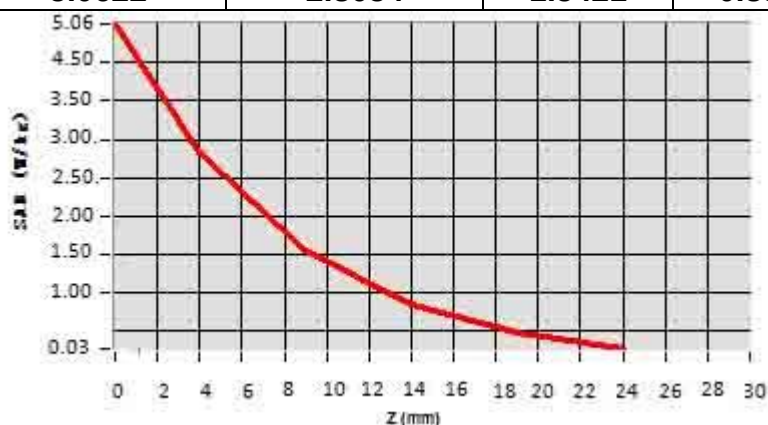
SURFACE SAR



VOLUME SAR



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	5.0622	2.8054	1.5421	0.8321	0.4130



Hot spot position



12. SAR Test Data

GSM850

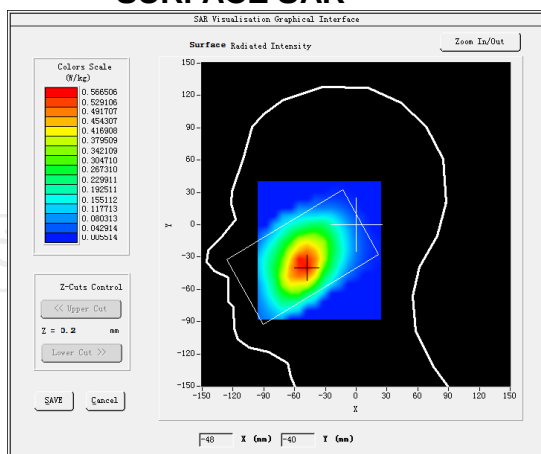
MEASUREMENT 1

High Band SAR (Channel 251)

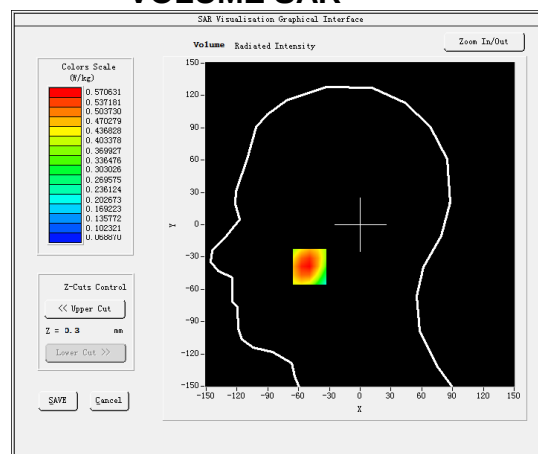
Date: 09/05/2022

Frequency (MHz)	848.000000
Relative permittivity (real part)	40.606560
Relative permittivity (imaginary part)	18.313232
Conductivity (S/m)	0.850955
Variation (%)	1.210000
Crest Factor:	1.0
Probe Conversion factor	1.80
E-Field Probe:	SSE2 (SN 36/20 EPG0346)
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Cheek
Band	GSM850(voice)

SURFACE SAR



VOLUME SAR



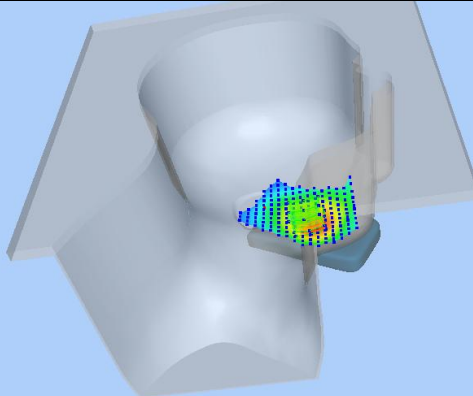
Maximum location: X=-48.00, Y=-24.00 SAR Peak: 0.18W/kg

SAR 10g (W/Kg)

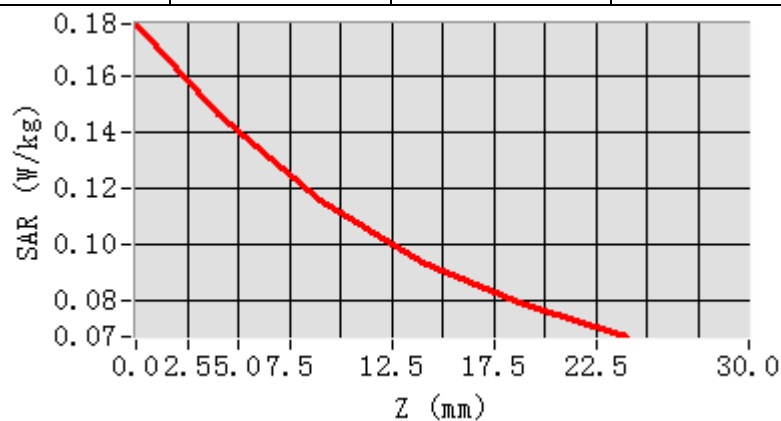
0.107589

SAR 1g (W/Kg)

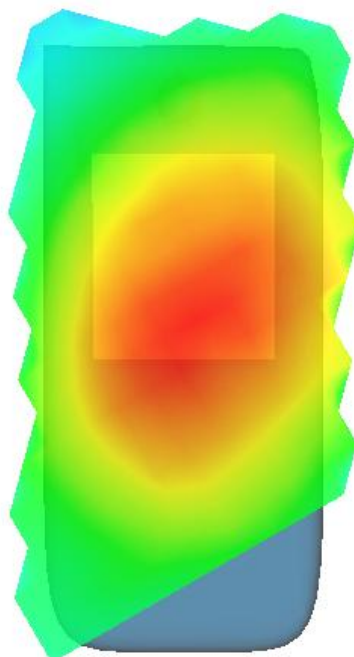
0.141332



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.9139	0.6546	0.4255	0.2757	0.1792



Hot spot position



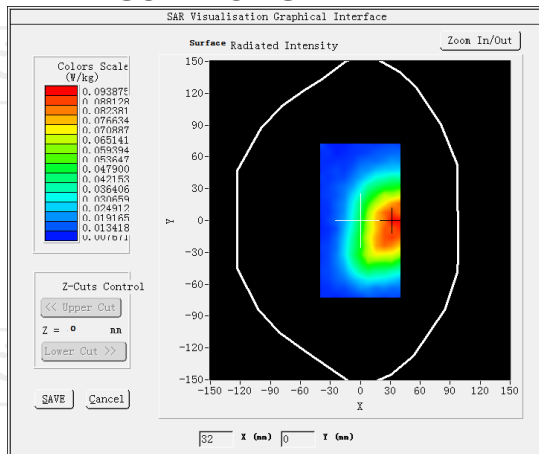
MEASUREMENT 2

High Band SAR (Channel 251)

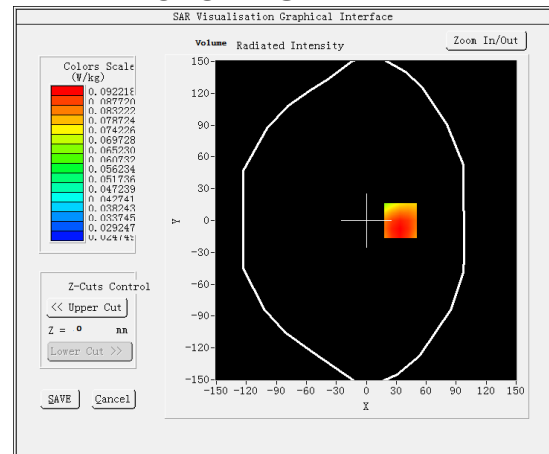
Date: 09/05/2022

Frequency (MHz)	848.000000
Relative permittivity (real part)	40.606560
Relative permittivity (imaginary part)	18.313232
Conductivity (S/m)	0.850955
Variation (%)	-1.760000
Crest Factor:	1.0
Probe Conversion factor	1.80
E-Field Probe:	SSE2 (SN 36/20 EPG0346)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Body back(10mm)</u>
Band	<u>GSM850(Voice)</u>

SURFACE SAR

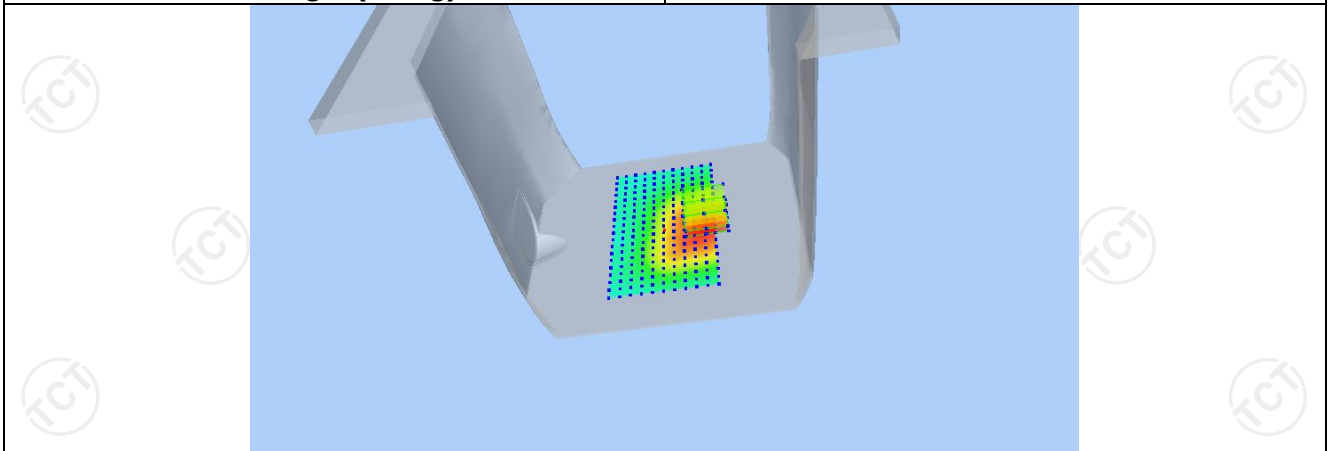


VOLUME SAR

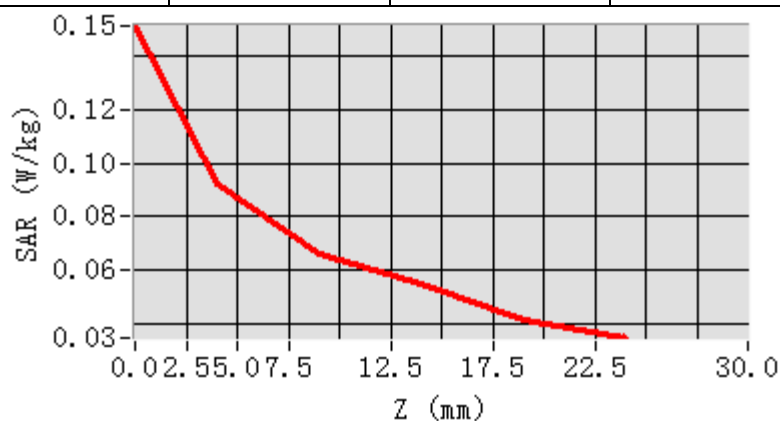


Maximum location: X=34.00, Y=-0.00 SAR Peak: 0.12 W/kg

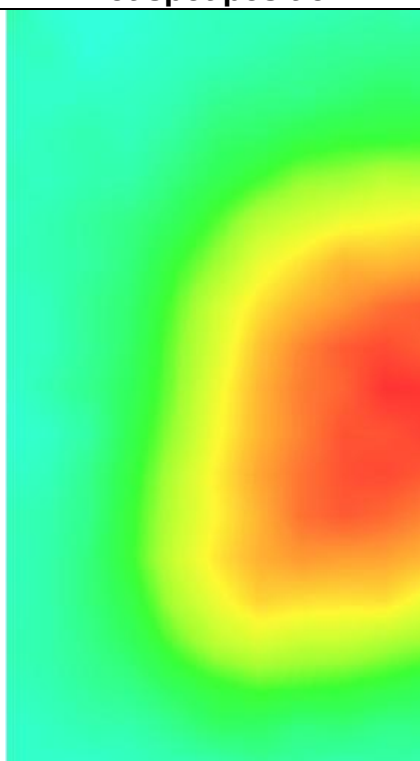
SAR 10g (W/Kg)	0.067495
SAR 1g (W/Kg)	0.089536



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.9547	0.3493	0.2145	0.2163	0.1300



Hot spot position



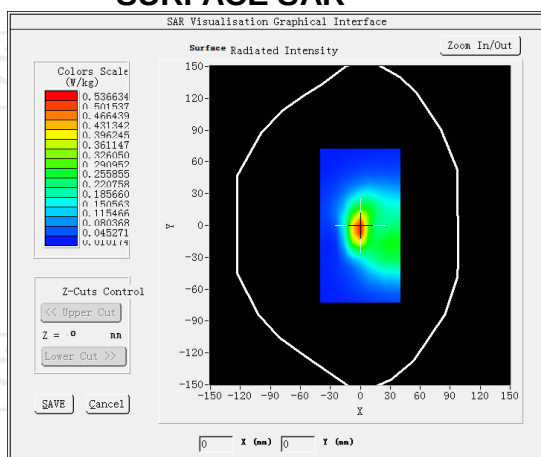
MEASUREMENT 3

Middle Band SAR (Channel 190)

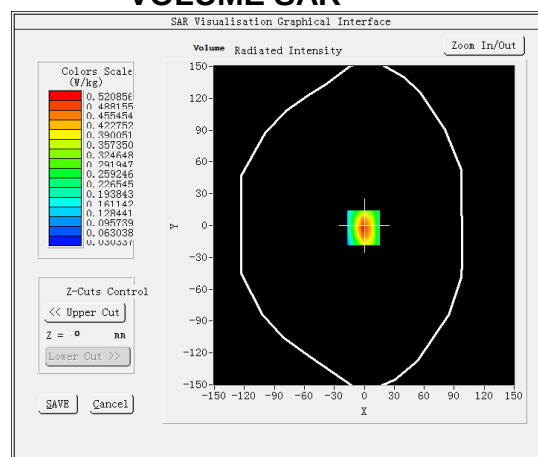
Date: 09/05/2022

Frequency (MHz)	836.600000
Relative permittivity (real part)	40.606560
Relative permittivity (imaginary part)	18.313232
Conductivity (S/m)	0.850955
Variation (%)	-0.820000
Crest Factor:	1.0
Probe Conversion factor	1.80
E-Field Probe:	SSE2 (SN 36/20 EPG0346)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7, dx=8mm dy=8mm</u> <u>dz=5mm, Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Body back(10mm)</u>
Band	<u>GSM850(GPRS 4slot)</u>

SURFACE SAR

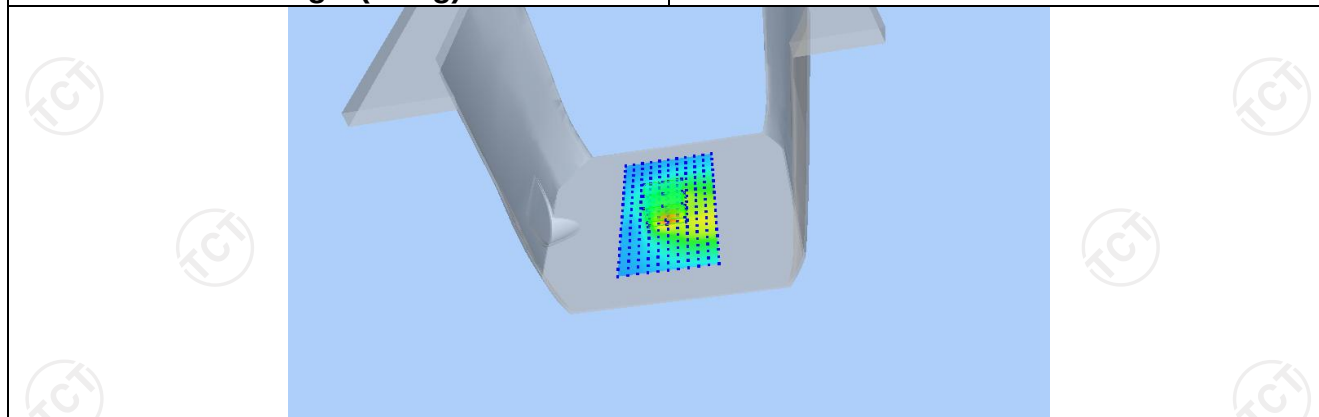


VOLUME SAR

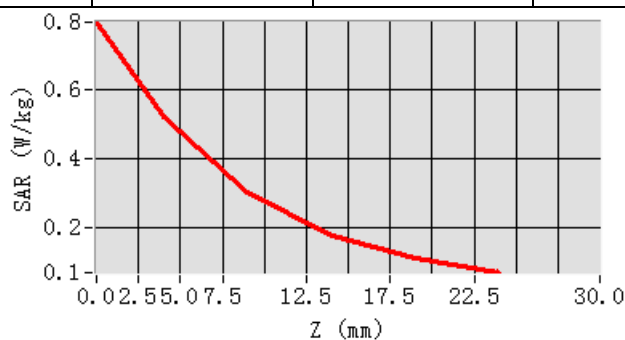


Maximum location: X=-1.00, Y=-2.00 SAR Peak: 0.80 W/kg

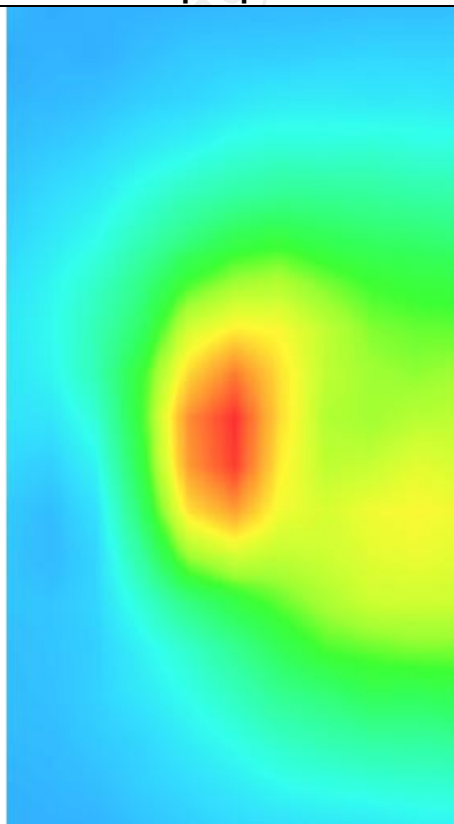
SAR 10g (W/Kg)	0.261715
SAR 1g (W/Kg)	0.483064



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.7976	0.5209	0.3007	0.1768	0.1099



Hot spot position



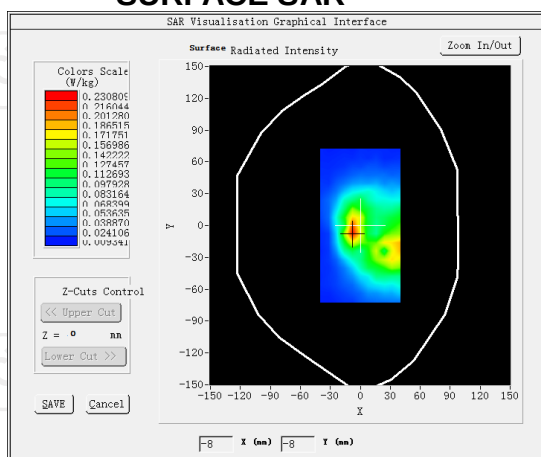
MEASUREMENT 4

Middle Band SAR (Channel 190)

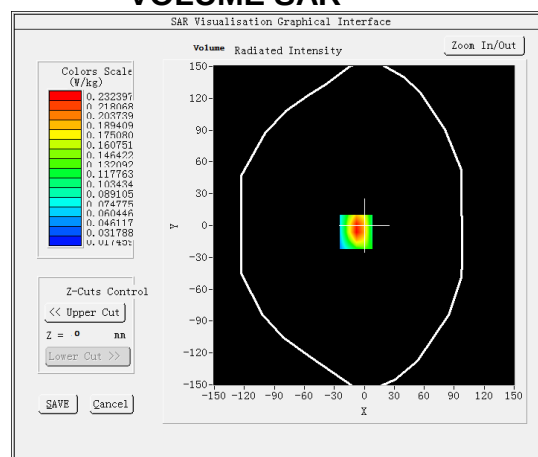
Date: 09/05/2022

Frequency (MHz)	836.600000
Relative permittivity (real part)	40.606560
Relative permittivity (imaginary part)	18.313232
Conductivity (S/m)	0.850955
Variation (%)	-2.790000
Crest Factor:	1.0
Probe Conversion factor	1.80
E-Field Probe:	SSE2 (SN 36/20 EPG0346)
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back(10mm)
Band	GSM850(GPRS 4slot hotspot)

SURFACE SAR

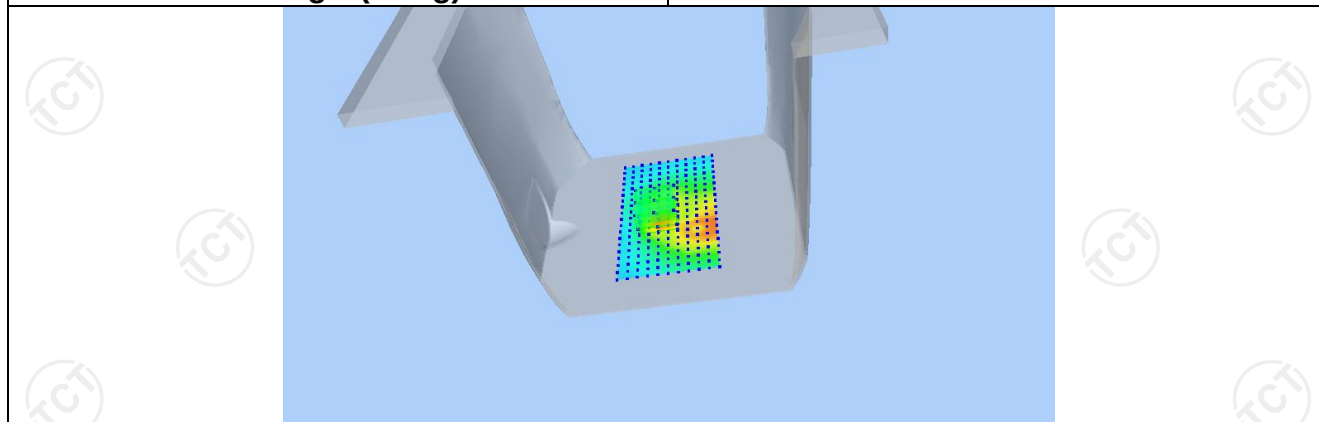


VOLUME SAR

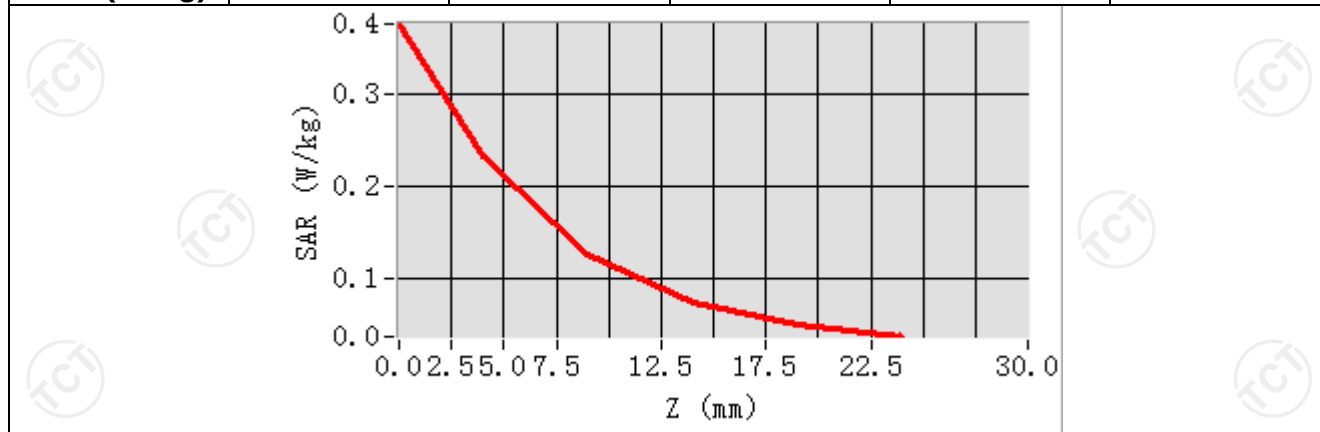


Maximum location: X=-8.00, Y=-6.00 SAR Peak: 0.38 W/kg

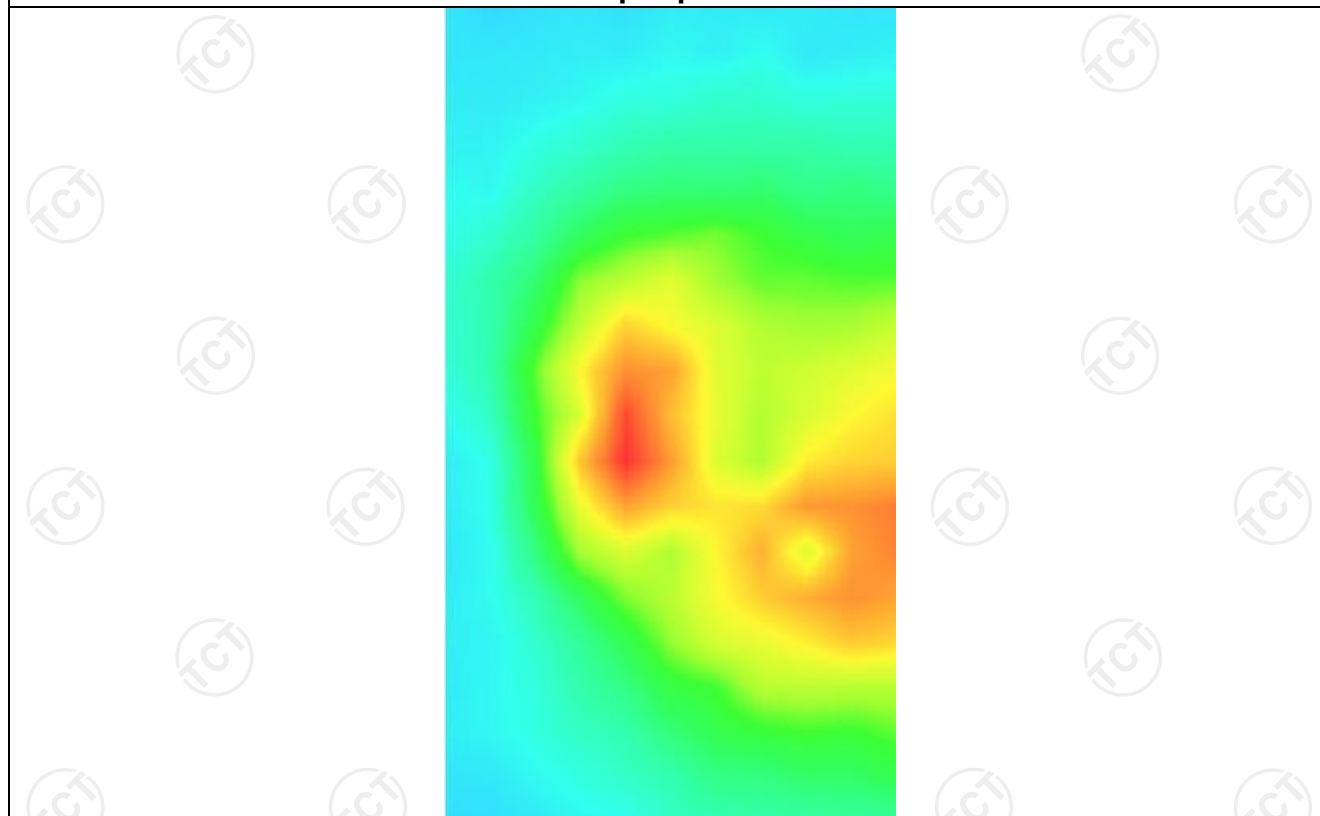
SAR 10g (W/Kg)	0.120243
SAR 1g (W/Kg)	0.219609



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.0470	0.7349	0.5467	0.4377	0.3352



Hot spot position



GSM1900

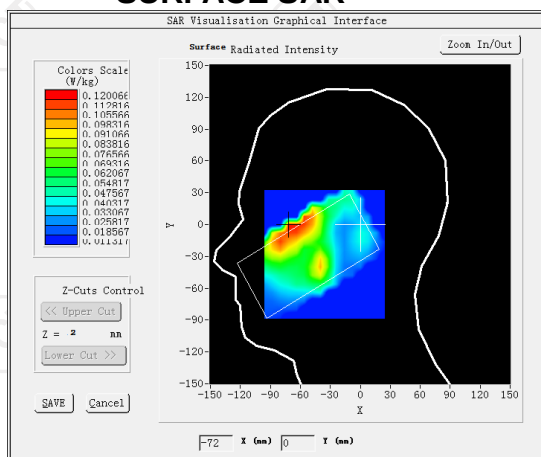
MEASUREMENT 1

Middle Band SAR (Channel 661):

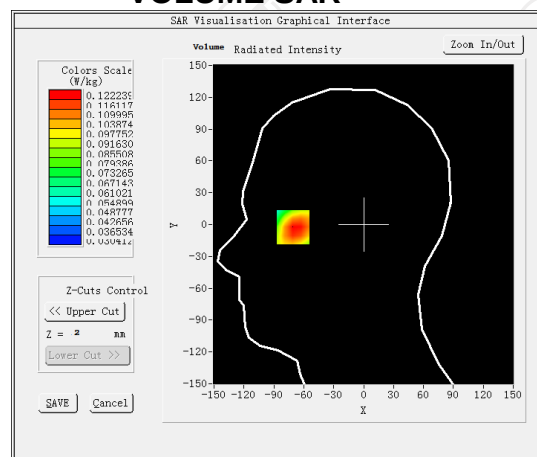
Date: 09/13/2022

Frequency (MHz)	1850.200000
Relative permittivity (real part)	40.000000
Relative permittivity (imaginary part)	13.408000
Conductivity (S/m)	1.400391
Variation (%)	-1.000000
Crest Factor	1.0
Probe Conversion factor	2.23
E-Field Probe:	SSE2 (SN 36/20 EPG0346)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>
Phantom	<u>Left head</u>
Device Position	<u>Cheek</u>
Band	<u>GSM1900(voice)</u>

SURFACE SAR

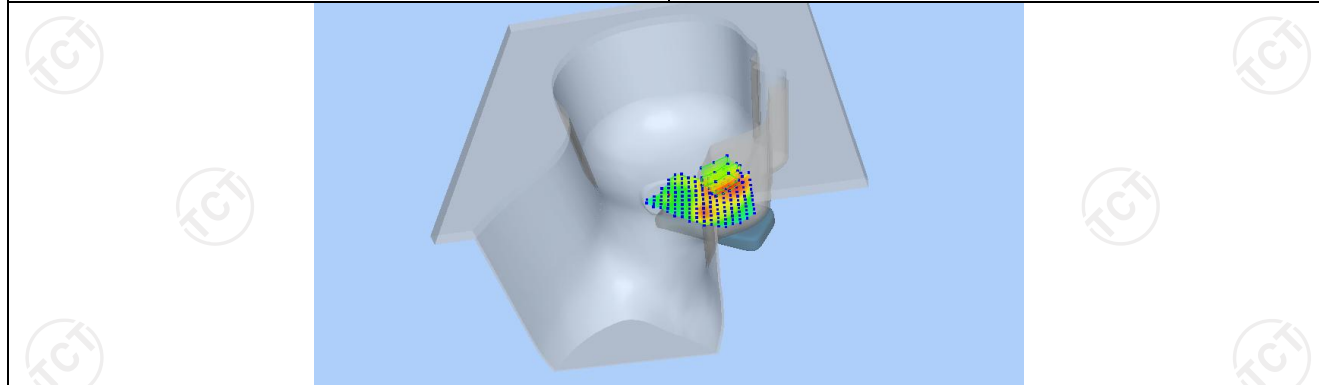


VOLUME SAR

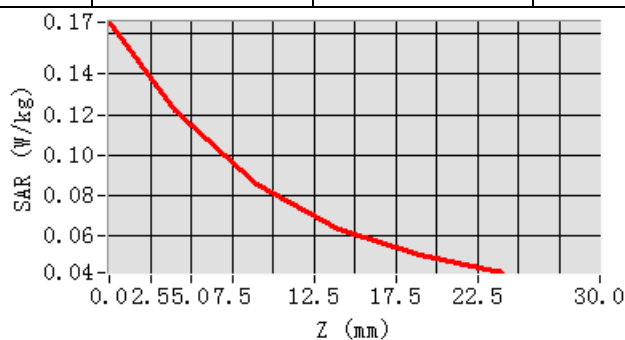


Maximum location: X=-71.00, Y=-0.00 SAR Peak: 0.56 W/kg

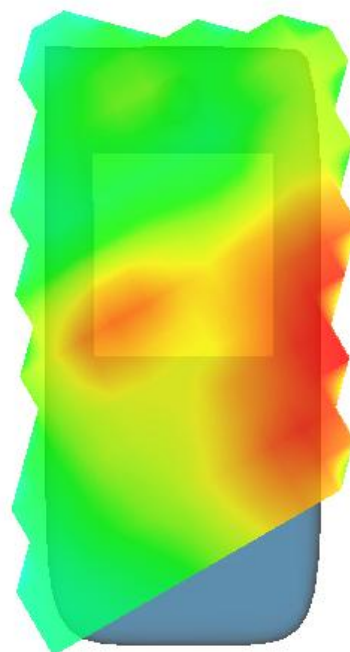
SAR 10g (W/Kg)	0.083360
SAR 1g (W/Kg)	0.118822



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.5344	0.3907	0.2608	0.1730	0.1144



Hot spot position



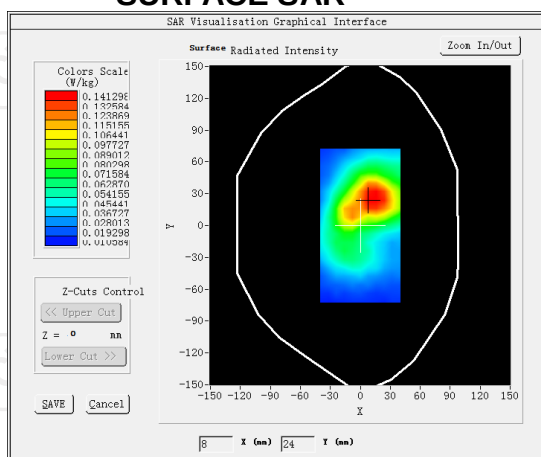
MEASUREMENT 2

Lower Band SAR (Channel 512):

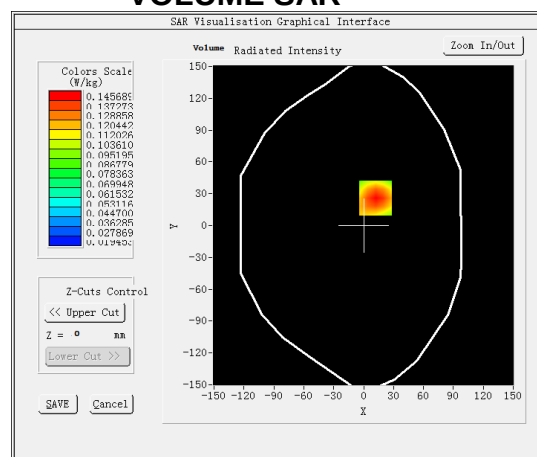
Date: 09/13/2022

Frequency (MHz)	1850.200000
Relative permittivity (real part)	40.000000
Relative permittivity (imaginary part)	13.408000
Conductivity (S/m)	1.400391
Variation (%)	3.790000
Crest Factor	1.0
Probe Conversion factor	2.23
E-Field Probe:	SSE2 (SN 36/20 EPG0346)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Body back(10mm)</u>
Band	<u>GSM1900(voice)</u>

SURFACE SAR

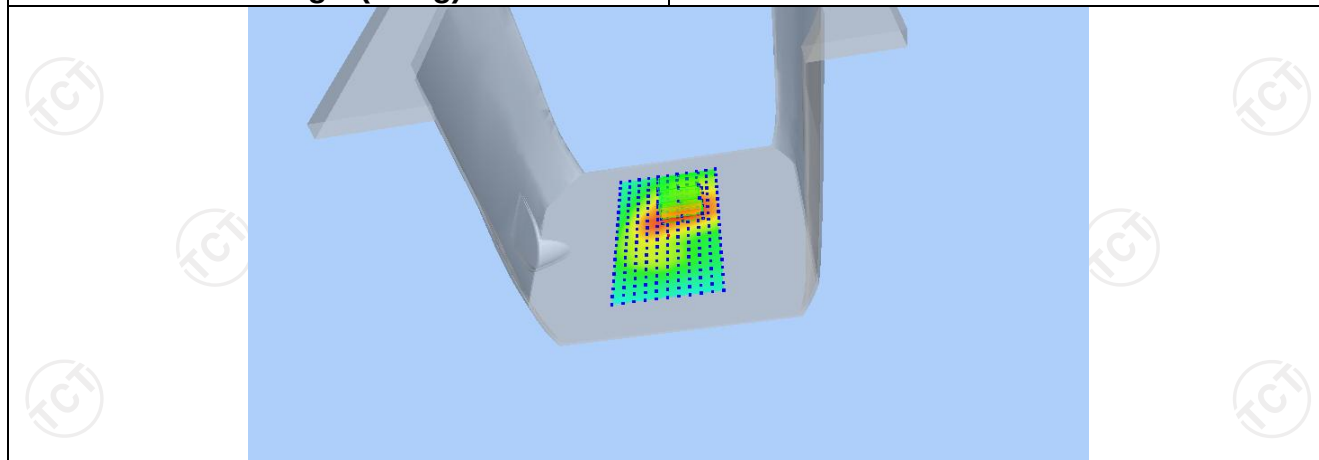


VOLUME SAR

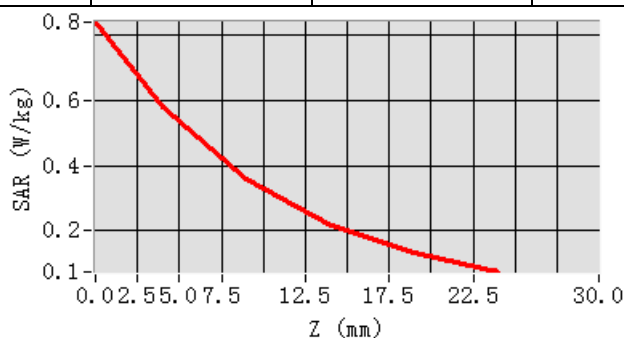


Maximum location: X=12.00, Y=26.00 SAR Peak: 0.19 W/kg

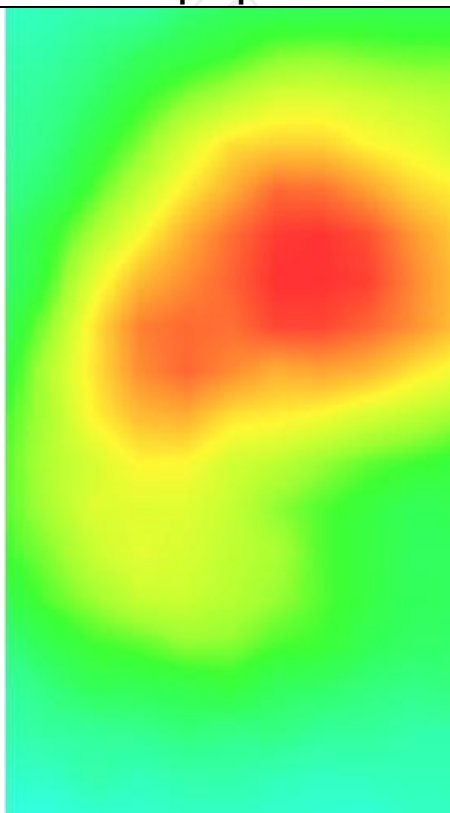
SAR 10g (W/Kg)	0.093845
SAR 1g (W/Kg)	0.139177



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.1931	0.1457	0.1019	0.0716	0.0548



Hot spot position



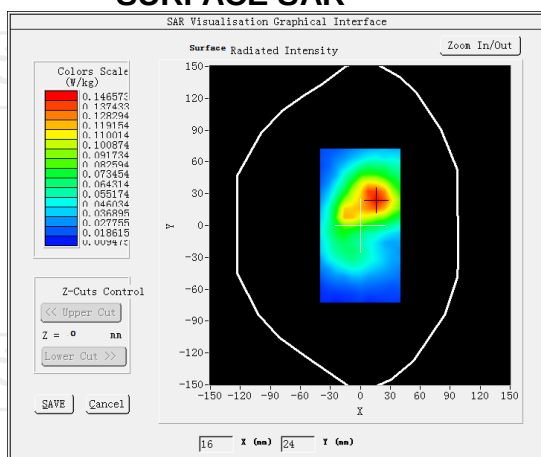
MEASUREMENT 3

Middle Band SAR (Channel 661):

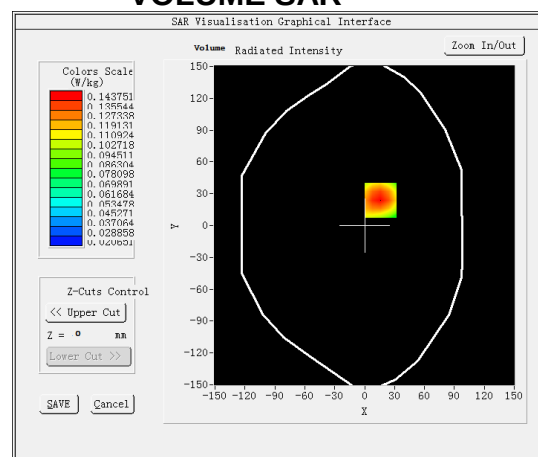
Date: 09/13/2022

Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.076721
Relative permittivity (imaginary part)	13.408000
Conductivity (S/m)	1.400391
Variation (%)	-0.820000
Crest Factor	1.0
Probe Conversion factor	2.23
E-Field Probe:	SSE2 (SN 36/20 EPG0346)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Body back(10mm)</u>
Band	<u>GSM1900(GPRS 4slot)</u>

SURFACE SAR

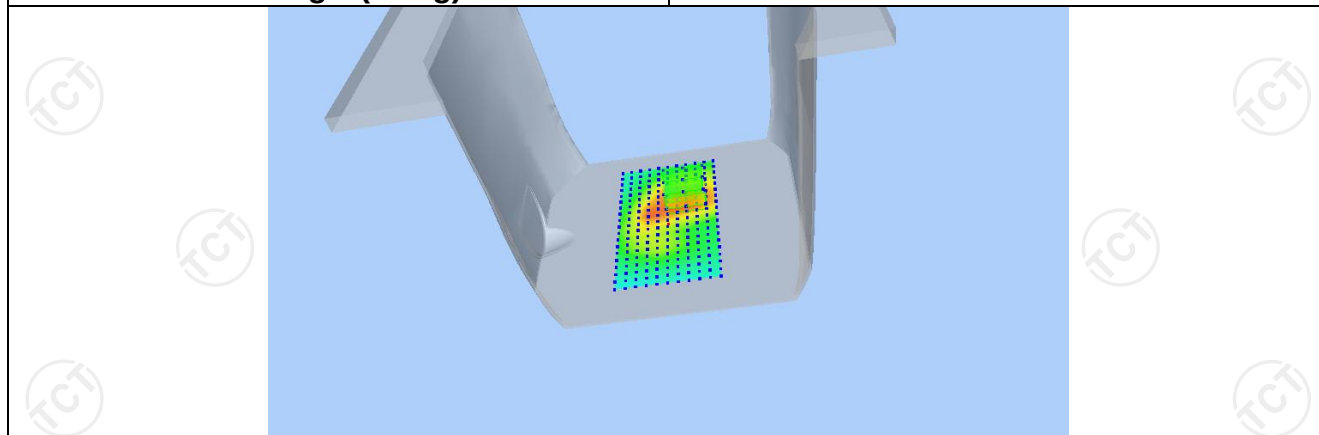


VOLUME SAR

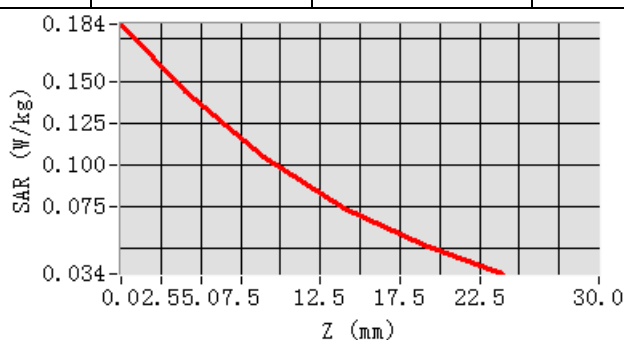


Maximum location: X=16.00, Y=24.00 SAR Peak: 0.19 W/kg

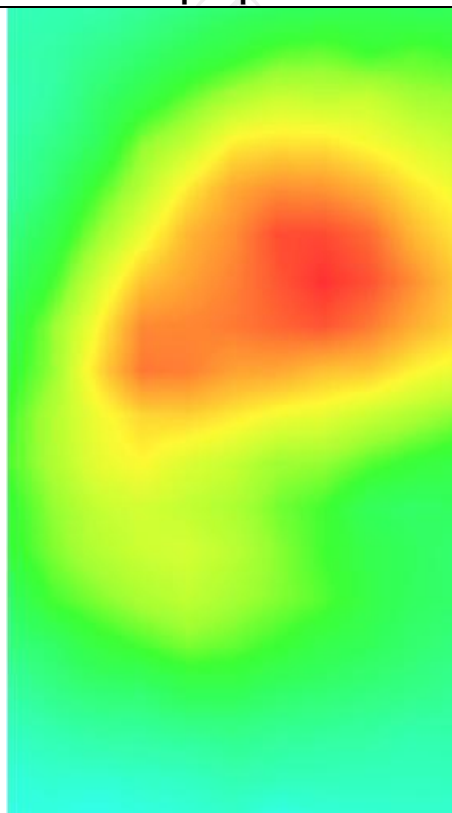
SAR 10g (W/Kg)	0.093219
SAR 1g (W/Kg)	0.137549



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.3494	0.8980	0.5288	0.3119	0.1885



Hot spot position



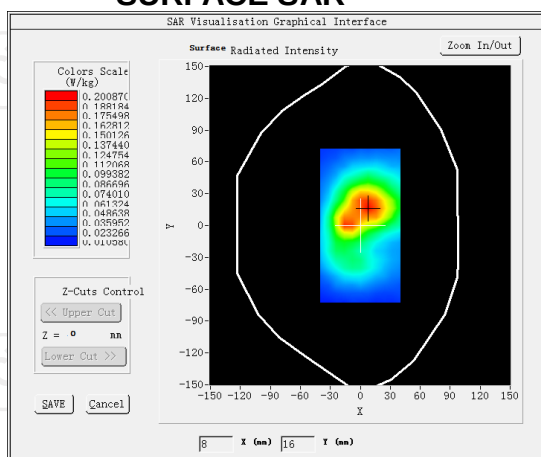
MEASUREMENT 4

Middle Band SAR (Channel 661):

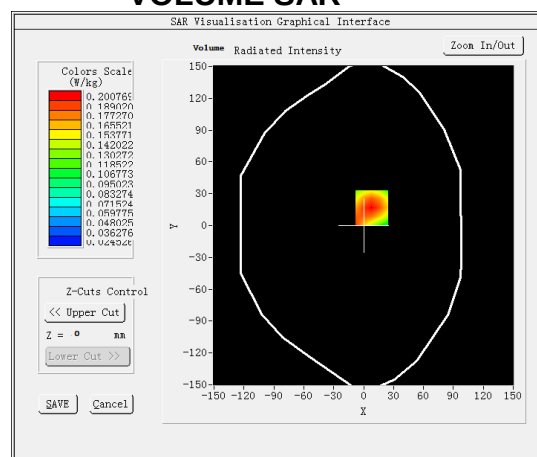
Date: 09/13/2022

Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.000000
Relative permittivity (imaginary part)	13.408000
Conductivity (S/m)	1.400391
Variation (%)	-0.690000
Crest Factor	1.0
Probe Conversion factor	2.23
E-Field Probe:	SSE2 (SN 36/20 EPG0346)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Body back(10mm)</u>
Band	<u>GSM1900(GPRS 4slot hotspot)</u>

SURFACE SAR

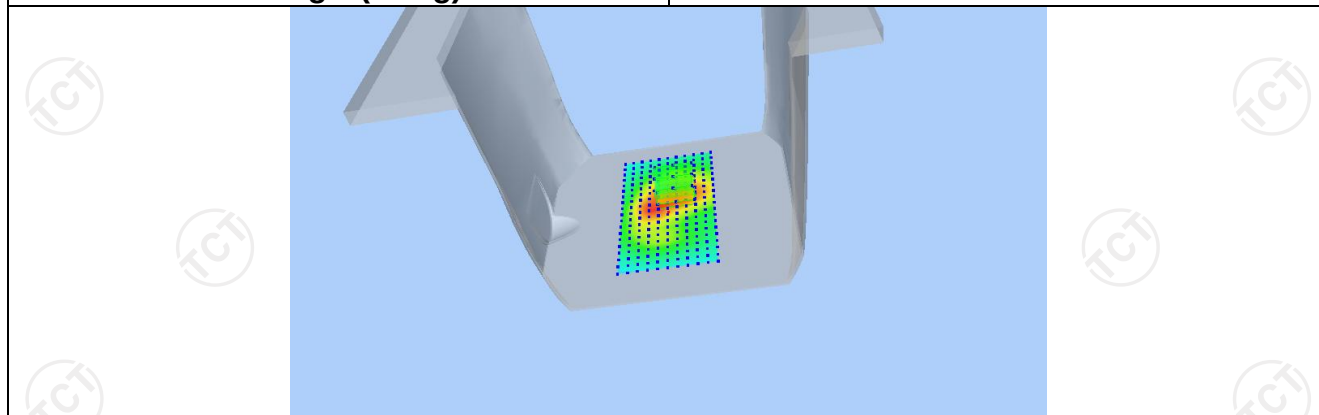


VOLUME SAR



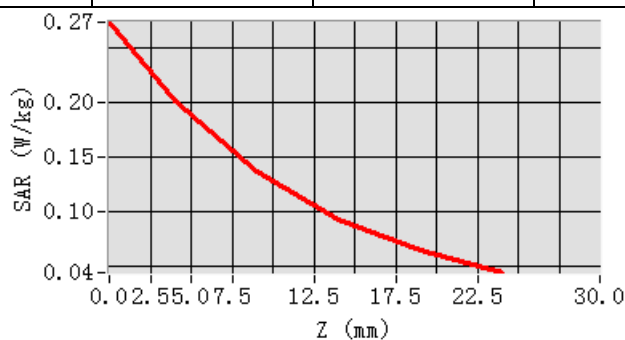
Maximum location: X=8.00, Y=17.00 SAR Peak:0.31 W/kg

SAR 10g (W/Kg)	0.127410
SAR 1g (W/Kg)	0.190387

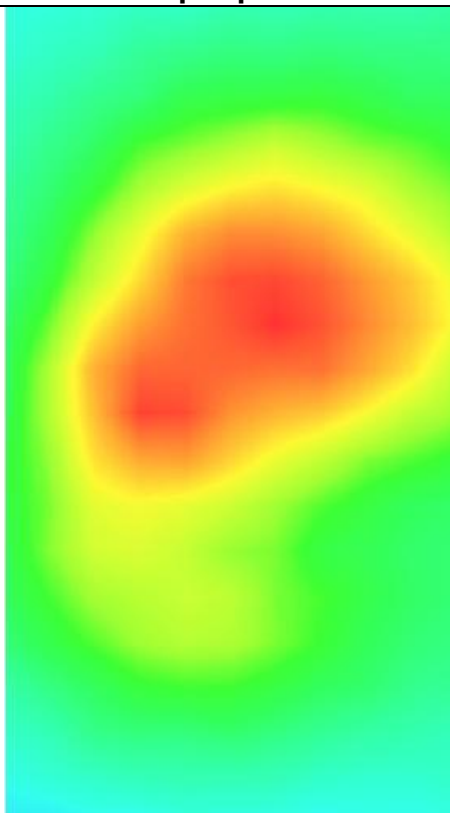


Z (mm)	0.00	4.00	9.00	14.00	19.00
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SAR (W/Kg)	1.7861	1.1445	0.6398	0.3597	0.2111
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Hot spot position



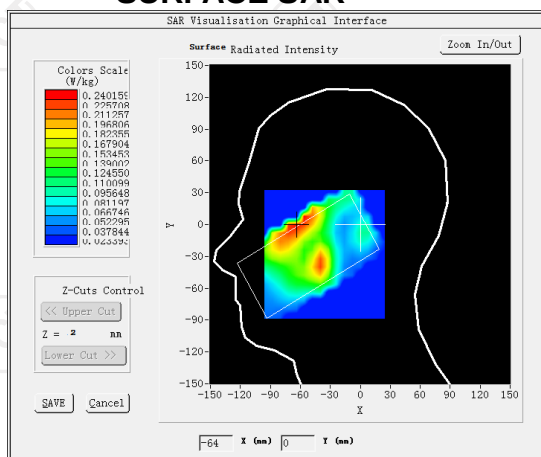
WCDMA Band II MEASUREMENT 1

Lower Band SAR (Channel 9262):

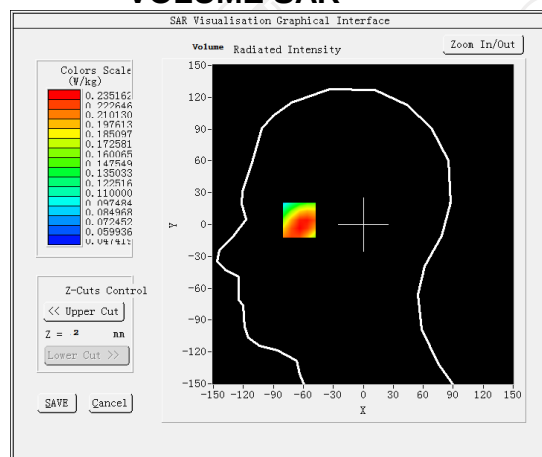
Date: 09/13/2022

Frequency (MHz)	1852.400000
Relative permittivity (real part)	40.000000
Relative permittivity (imaginary part)	13.408000
Conductivity (S/m)	1.400391
Variation (%)	0.010000
Crest Factor	1.0
Probe Conversion factor	2.23
E-Field Probe:	SSE2 (SN 36/20 EPG0346)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>
Phantom	<u>Left head</u>
Device Position	<u>Cheek</u>
Band	<u>BAND2 WCDMA1900</u>

SURFACE SAR

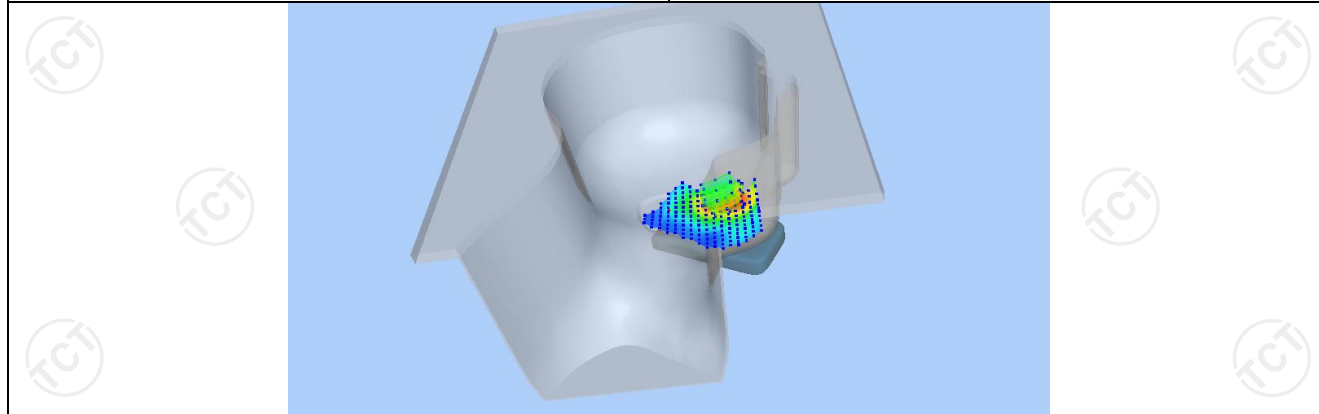


VOLUME SAR

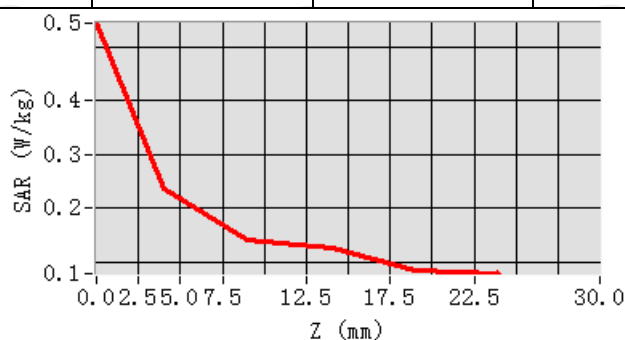


Maximum location: X=-66.00, Y=-5.00 SAR Peak: 0.83 W/kg

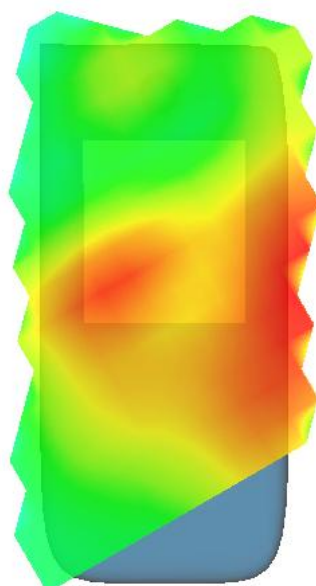
SAR 10g (W/Kg)	0.160101
SAR 1g (W/Kg)	0.227875



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.8227	0.5938	0.3887	0.2521	0.1623



Hot spot position



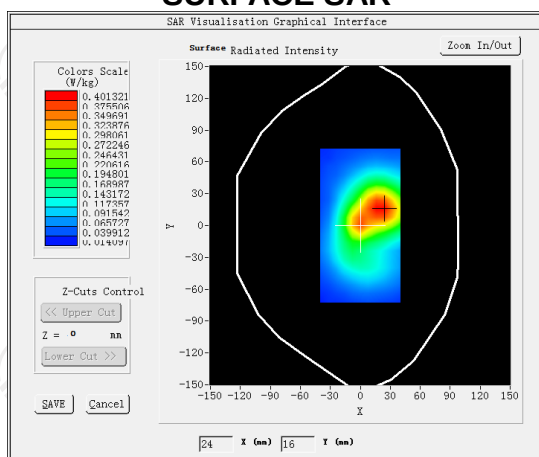
MEASUREMENT 2

Lower Band SAR (Channel 9262):

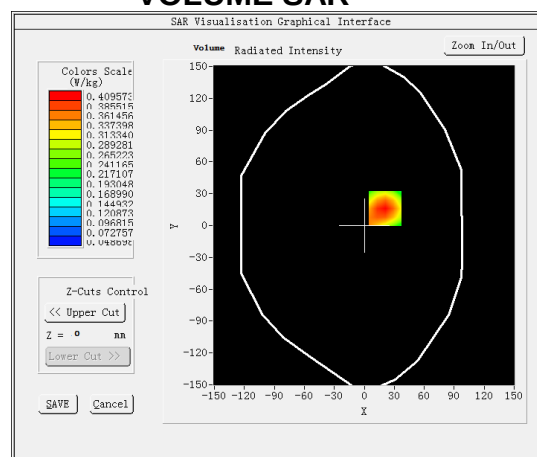
Date: 09/13/2022

Frequency (MHz)	1852.400000
Relative permittivity (real part)	40.000000
Relative permittivity (imaginary part)	13.408000
Conductivity (S/m)	1.400391
Variation (%)	-1.730000
Crest Factor	1.0
Probe Conversion factor	2.23
E-Field Probe:	SSE2 (SN 36/20 EPG0346)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7, dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Body back(10mm)</u>
Band	<u>BAND2 WCDMA1900</u>

SURFACE SAR



VOLUME SAR



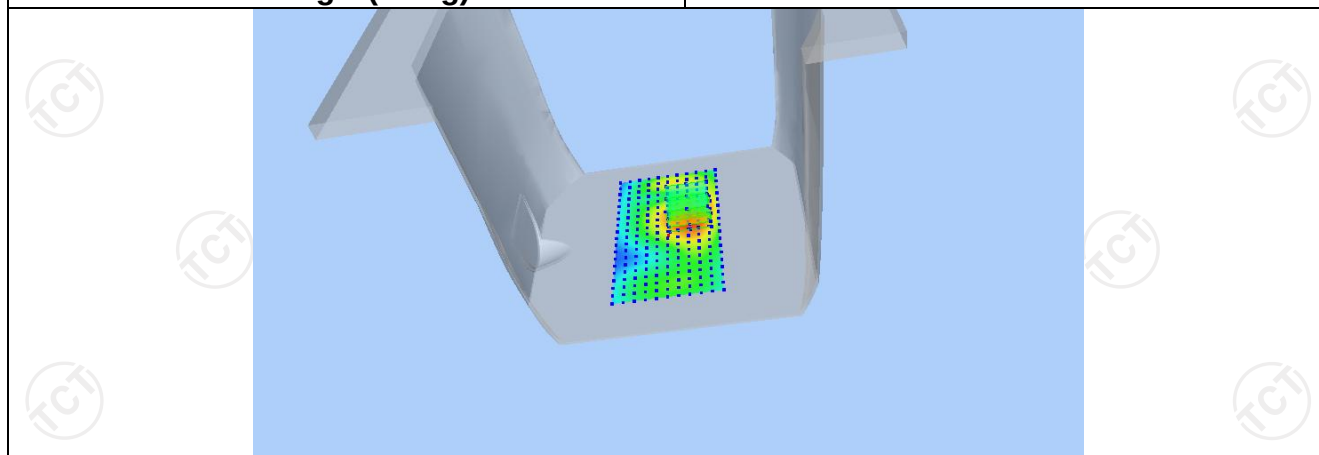
Maximum location: X=21.00, Y=16.00 SAR Peak: 0.57 W/kg

SAR 10g (W/Kg)

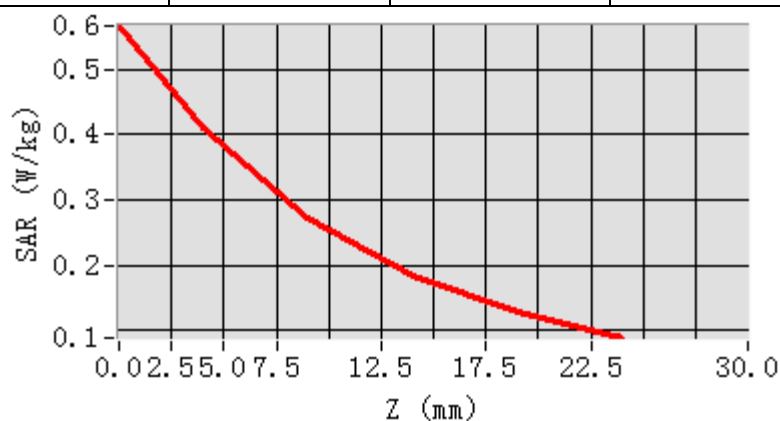
0.253028

SAR 1g (W/Kg)

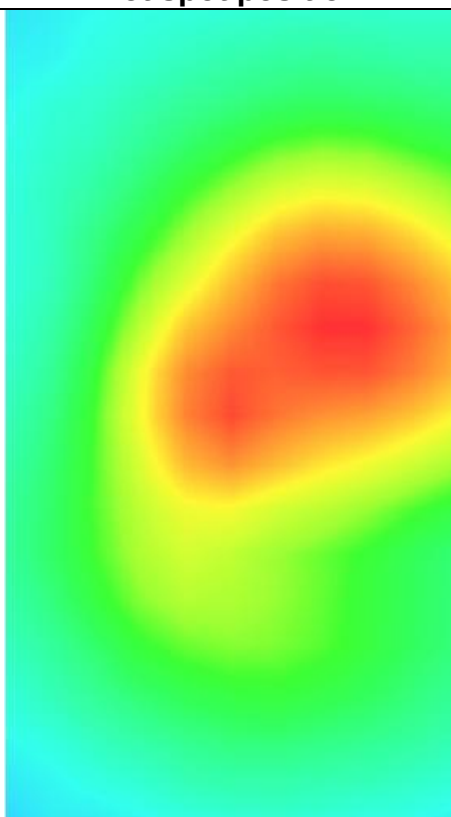
0.390614



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.0209	0.7136	0.4457	0.2737	0.1655



Hot spot position



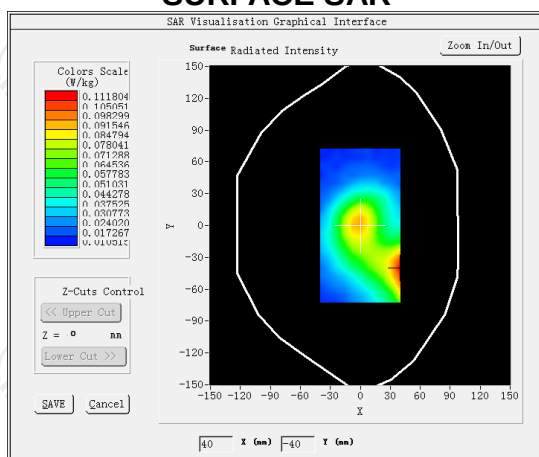
MEASUREMENT 3

Lower Band SAR (Channel 9262):

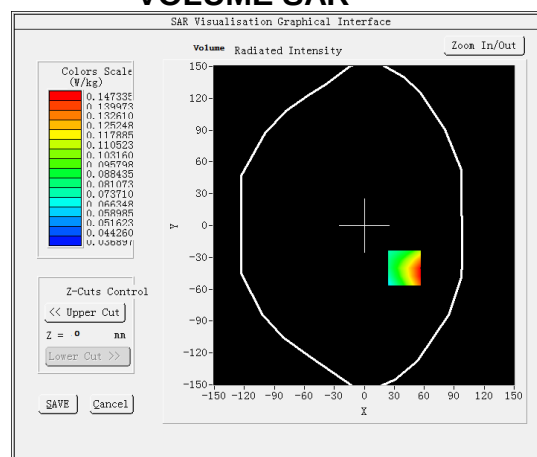
Date: 09/13/2022

Frequency (MHz)	1852.400000
Relative permittivity (real part)	40.000000
Relative permittivity (imaginary part)	13.408000
Conductivity (S/m)	1.400391
Variation (%)	-1.170000
Crest Factor	1.0
Probe Conversion factor	2.23
E-Field Probe:	SSE2 (SN 36/20 EPG0346)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7, dx=8mm dy=8mm</u> <u>dz=5mm, Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Body back(10mm)</u>
Band	<u>BAND2 WCDMA1900(hotspot)</u>

SURFACE SAR



VOLUME SAR



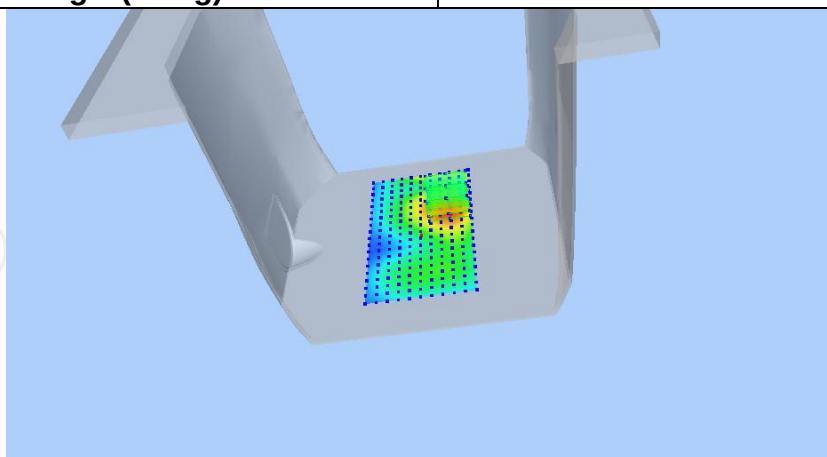
Maximum location: X=40.00, Y=-40.00 SAR Peak: 0.17 W/kg

SAR 10g (W/Kg)

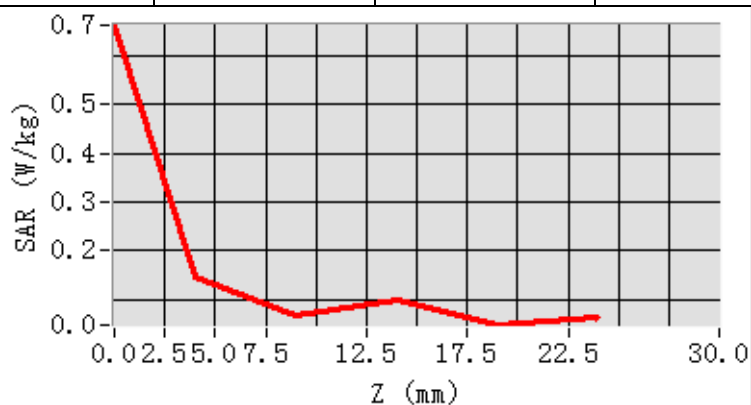
0.097846

SAR 1g (W/Kg)

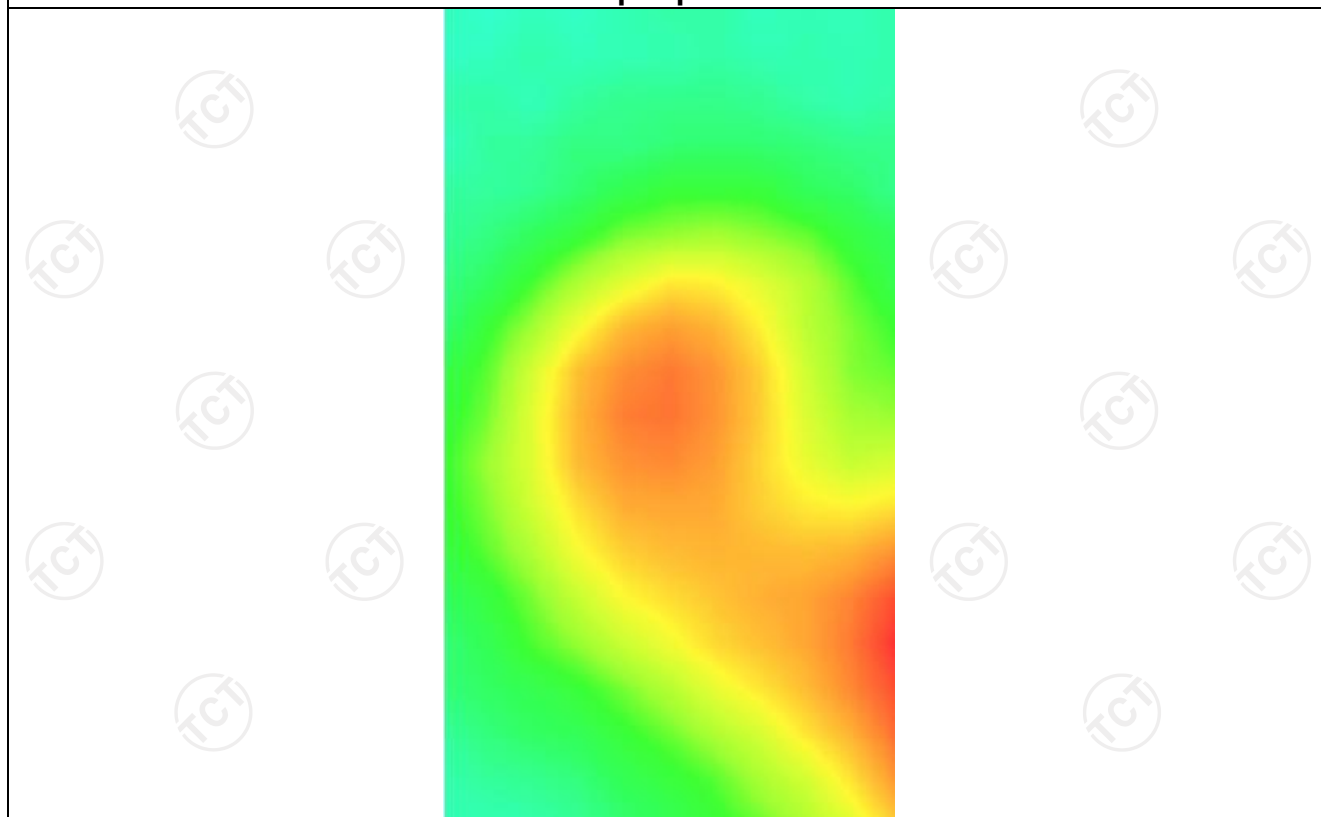
0.135389



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.1768	0.8159	0.5054	0.3095	0.1885



Hot spot position

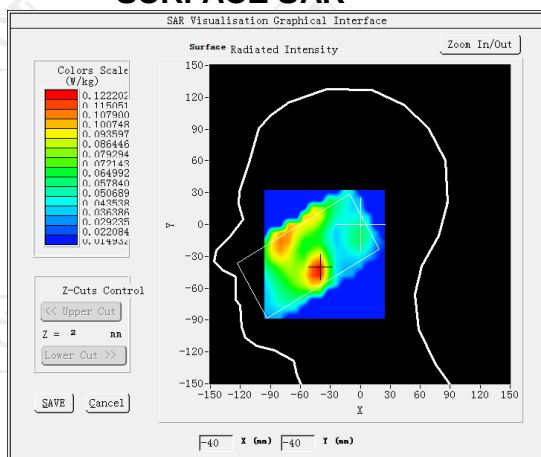


WCDMA Band V MEASUREMENT 1

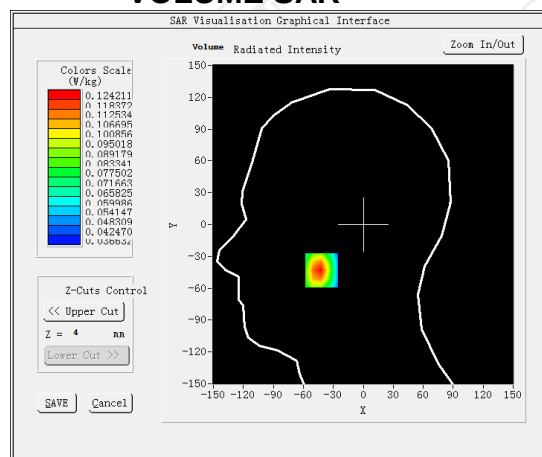
Lower Band SAR (Channel 4132): Date: 09/05/2022

Frequency (MHz)	826.400000
Relative permittivity (real part)	41.500000
Relative permittivity (imaginary part)	19.400000
Conductivity (S/m)	0.901453
Variation (%)	-0.310000
Crest Factor:	1.0
Probe Conversion factor	1.80
E-Field Probe:	SSE2 (SN 36/20 EPG0346)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>
Phantom	<u>Left head</u>
Device Position	<u>Cheek</u>
Band	<u>BAND5 WCDMA850</u>

SURFACE SAR

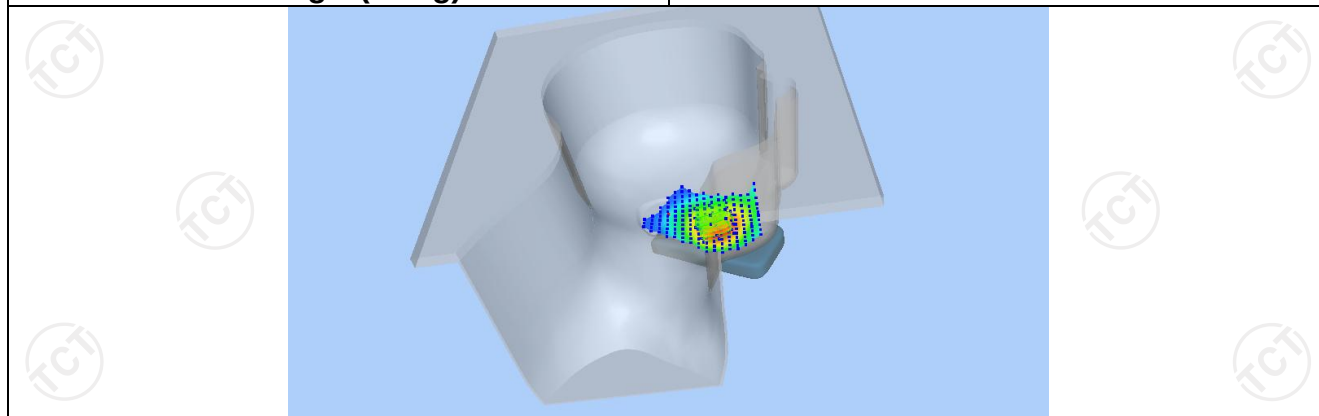


VOLUME SAR

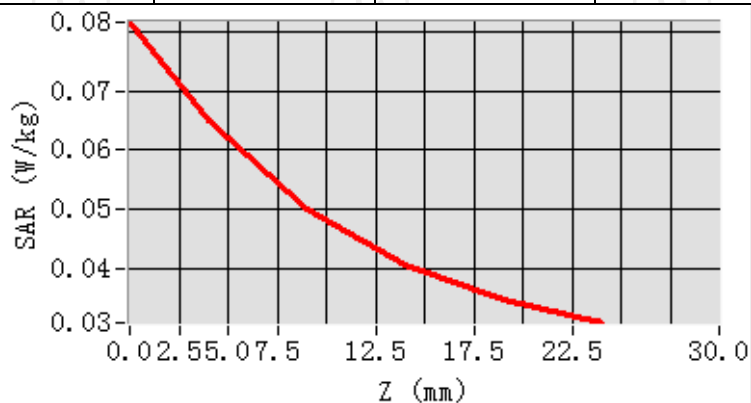


Maximum location: X=-34.00, Y=-10.00 SAR Peak: 0.08 W/kg

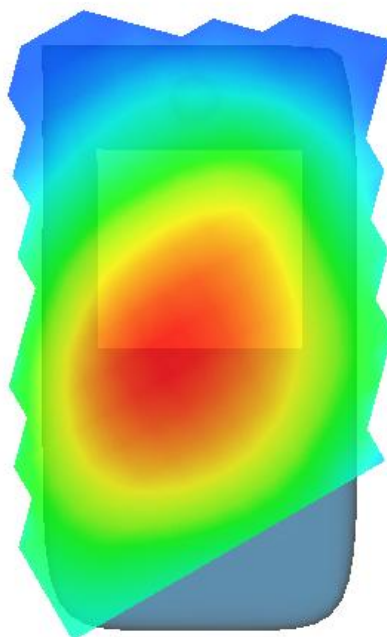
SAR 10g (W/Kg)	0.089160
SAR 1g (W/Kg)	0.119216



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.1580	0.1242	0.0946	0.0765	0.0661



Hot spot position



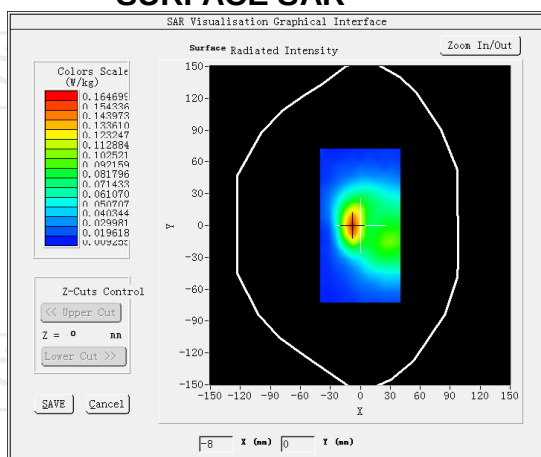
MEASUREMENT 2

Lower Band SAR (Channel 4132):

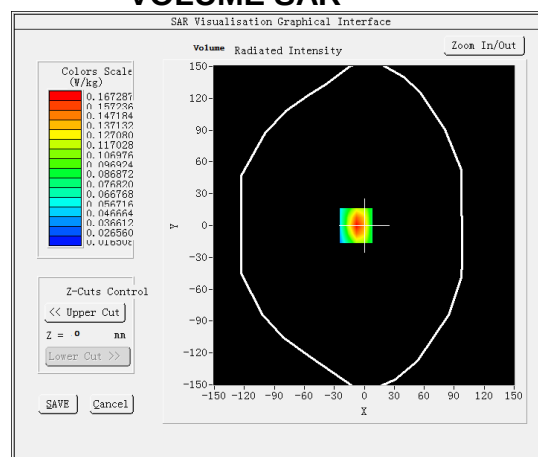
Date: 09/05/2022

Frequency (MHz)	826.400000
Relative permittivity (real part)	41.500000
Relative permittivity (imaginary part)	19.400000
Conductivity (S/m)	0.901453
Variation (%)	-1.290000
Crest Factor:	1.0
Probe Conversion factor	1.80
E-Field Probe:	SSE2 (SN 36/20 EPG0346)
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back(10mm)
Band	BAND5 WCDMA850

SURFACE SAR

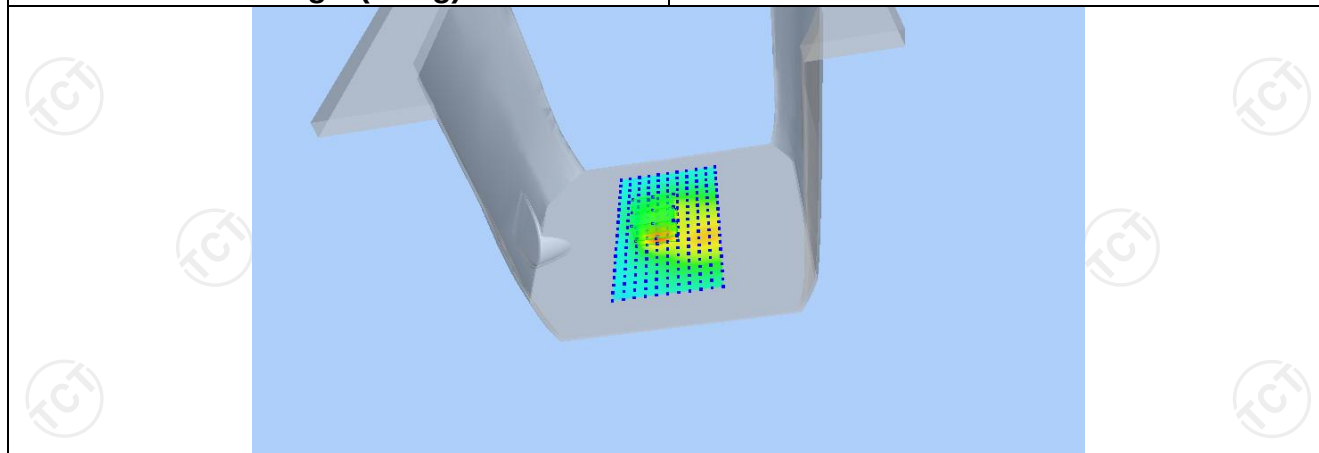


VOLUME SAR

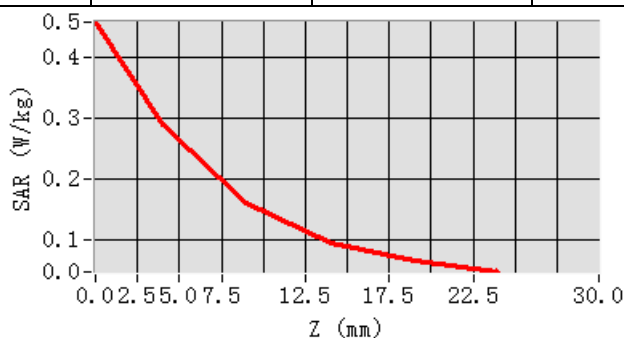


Maximum location: X=-8.00, Y=0.00 SAR Peak: 0.25 W/kg

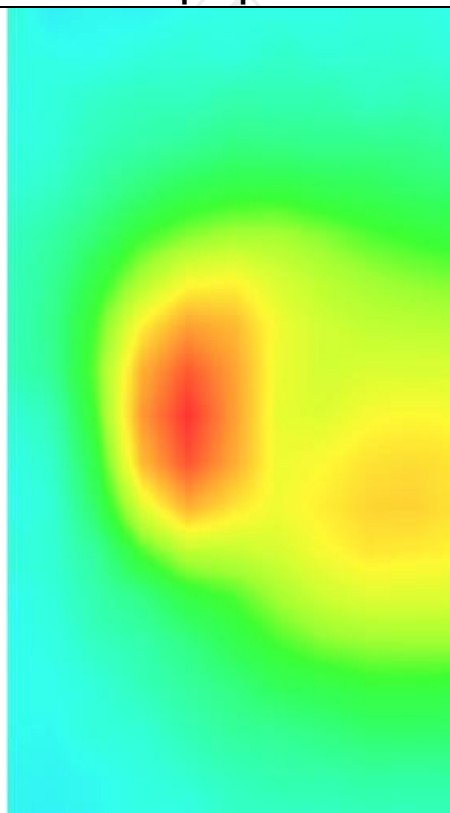
SAR 10g (W/Kg)	0.236853
SAR 1g (W/Kg)	0.156354



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.4019	0.3300	0.2561	0.1978	0.1515



Hot spot position



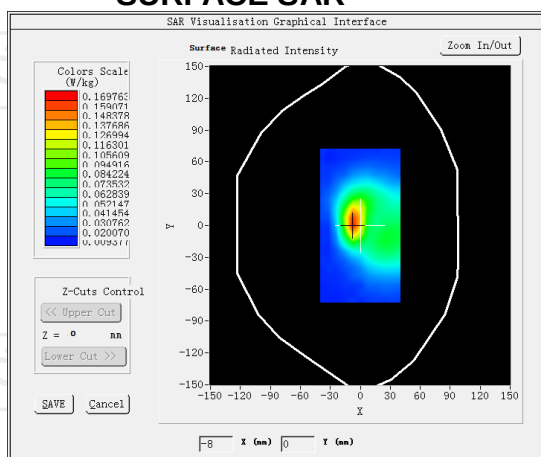
MEASUREMENT 3

Lower Band SAR (Channel 4132):

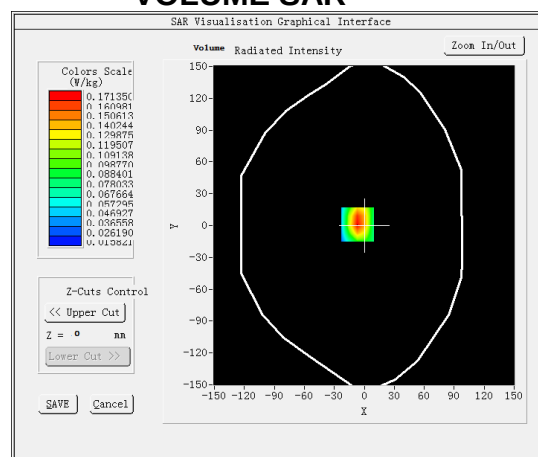
Date: 09/05/2022

Frequency (MHz)	826.400000
Relative permittivity (real part)	41.500000
Relative permittivity (imaginary part)	19.400000
Conductivity (S/m)	0.901453
Variation (%)	-0.950000
Crest Factor:	1.0
Probe Conversion factor	1.80
E-Field Probe:	SSE2 (SN 36/20 EPG0346)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Body back(10mm)</u>
Band	<u>BAND5 WCDMA850(hotspot)</u>

SURFACE SAR



VOLUME SAR



Maximum location: X=-15.00, Y=-6.00 SAR Peak: 0.44 W/kg

SAR 10g (W/Kg)	0.147471
SAR 1g (W/Kg)	0.260822

