

# FCC SAR EVALUATION REPORT

**In accordance with the requirements of  
FCC 47 CFR Part 2(2.1093), ANSI/IEEE C95.1-1992 and  
IEEE Std 1528-2013**

**Product Name :** Mobile Phone

**Brand Name :** OSCAL

**Model Name :** TIGER 12

**Family Model :** N/A

**Report No. :** S23082903606001

**FCC ID :** 2A7DX-TIGER12

**Prepared for**

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## TEST RESULT CERTIFICATION

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**Product description**

Product name ..... Mobile Phone  
 Brand Name ..... TIGER 12  
 Model and/or type reference ..... OSCAL  
 Family Model ..... N/A  
 FCC 47 CFR Part 2(2.1093)  
 ANSI/IEEE C95.1-1992

**Standards** ..... IEEE Std 1528-2013  
 Published RF exposure KDB procedures

This device described above has been tested by Shenzhen NTEK. In accordance with the measurement methods and procedures specified in IEEE Std 1528-2013 and KDB 865664 D01. Testing has shown that this device is capable of compliance with localized specific absorption rate (SAR) specified in FCC 47 CFR Part 2(2.1093) and ANSI/IEEE C95.1-1992. The test results in this report apply only to the tested sample of the stated device/equipment. Other similar device/equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

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Test Sample Number ..... S230829036008

**Date of Test**

Date (s) of performance of tests... Nov. 11, 2023 ~ Nov. 24, 2023

Date of Issue ..... Jan. 04, 2024

Test Result ..... **Pass**

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※ ※ Revision History ※ ※

REV.	DESCRIPTION	ISSUED DATE	REMARK
Rev.1.0	Initial Test Report Release	Jan. 04, 2024	Jack Li

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## 1. General Information

### 1.1. RF exposure limits

(A).Limits for Occupational/Controlled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.4	8.0	20.0

(B).Limits for General Population/Uncontrolled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.08	1.6	4.0

NOTE: **Whole-Body SAR** is averaged over the entire body, **partial-body SAR** is averaged over any 1 gram of tissue defined as a tissue volume in the shape of a cube. **SAR for hands, wrists, feet and ankles** is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

#### Occupational/Controlled Environments:

Are defined as locations where there is exposure that may be incurred by people who are aware of the potential for exposure, (i.e. as a result of employment or occupation).

#### General Population/Uncontrolled Environments:

Are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

#### NOTE

Localized Head, Neck and Trunk LIMIT

1.6 W/kg

APPLIED TO THIS EUT

### 1.2. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for TIGER 12 are as follows.

RF Exposure Conditions		Max Reported SAR Value(W/kg)
1-g Head		1.067
1-g Body-Worn (Separation distance of 10mm)		0.949
1-g Hotspot (Separation distance of 10mm)		0.949
Max Simultaneous Tx	Head	1.412
	Body-Worn	1.204
	Hotspot	1.204

Note: The Max Simultaneous Tx is calculated based on the same configuration and test position. This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CFR Part 2(2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE Std 1528-2013 & KDB 865664 D01.

### 1.3. EUT Description

Device Information	
Product Name	Mobile Phone
Brand Name	OSCAL
Model Name	TIGER 12
Family Model	N/A
Model Difference	N/A
FCC ID	2A7DX-TIGER12
Device Phase	Identical Prototype
Exposure Category	General population / Uncontrolled environment
Antenna Type	PIFA Antenna
Battery Information	Rated Capacity: DC 3.87V, 4850mAh, 18.77Wh Typical Capacity: DC 3.87V, 5000mAh, 19.35Wh
HW Version	N/A
SW Version	N/A
Device Operating Configurations	
Supporting Mode(s)	GSM850/1900,WCDMABand2/4/5,LTEBand2/4/5/7/12/13/17/26A/26B/66, WLAN 2.4/5G, Bluetooth, NFC
Test Modulation	GSM(GMSK/8PSK), WCDMA(QPSK), LTE(QPSK/16QAM), WLAN(DSSS/OFDM), Bluetooth(GFSK, π/4-DQPSK, 8DPSK), NFC(ASK)

Device Class	B		
Operating Frequency Range(s)	Band	Tx (MHz)	Rx (MHz)
	GSM 850	824-849	869-894
	GSM 1900	1850-1910	1930-1990
	WCDMA Band 2	1850-1910	1930-1990
	WCDMA Band 4	1710-1755	2110-2155
	WCDMA Band 5	824-849	869-894
	LTE Band 2	1850-1910	1930-1990
	LTE Band 4	1710-1755	2110-2155
	LTE Band 5	824-849	869-894
	LTE Band 7	2500-2570	2620-2690
	LTE Band 12	699-716	729-746
	LTE Band 13	777-787	746-756
	LTE Band 17	704-716	734-746
	LTE Band 26A	814-824	859-869
	LTE Band 26B	824-849	869-894
	LTE Band 66	1710-1780	2110-2200
	WLAN 2.4G	2412-2462	
	WLAN 5.2G	5180-5240	
	WLAN 5.8G	5745-5825	
	NFC	13.56	
Bluetooth	2402-2480		
GPRS Multislot Class(12)	Max Number of Timeslots in Uplink		4
	Max Number of Timeslots in Downlink		4
	Max Total Timeslot		5
EGPRS Multislot Class(12)	Max Number of Timeslots in Uplink		4
	Max Number of Timeslots in Downlink		4
	Max Total Timeslot		5
Power Class	4, tested with power level 5(GSM 850)		
	1, tested with power level 0(GSM 1900)		
	3, tested with power control "all 1"(WCDMA Band 2)		
	3, tested with power control "all 1"(WCDMA Band 4)		
	3, tested with power control "all 1"(WCDMA Band 5)		
	3, tested with power control all Max.(LTE Band 2)		
	3, tested with power control all Max.(LTE Band 4)		
	3, tested with power control all Max.(LTE Band 5)		
	3, tested with power control all Max.(LTE Band 7)		
	3, tested with power control all Max.(LTE Band 12)		
	3, tested with power control all Max.(LTE Band 13)		
	3, tested with power control all Max.(LTE Band 17)		



	3, tested with power control all Max.(LTE Band 26A)
	3, tested with power control all Max.(LTE Band 26B)
	3, tested with power control all Max.(LTE Band 66)

**1.4. Test specification(s)**

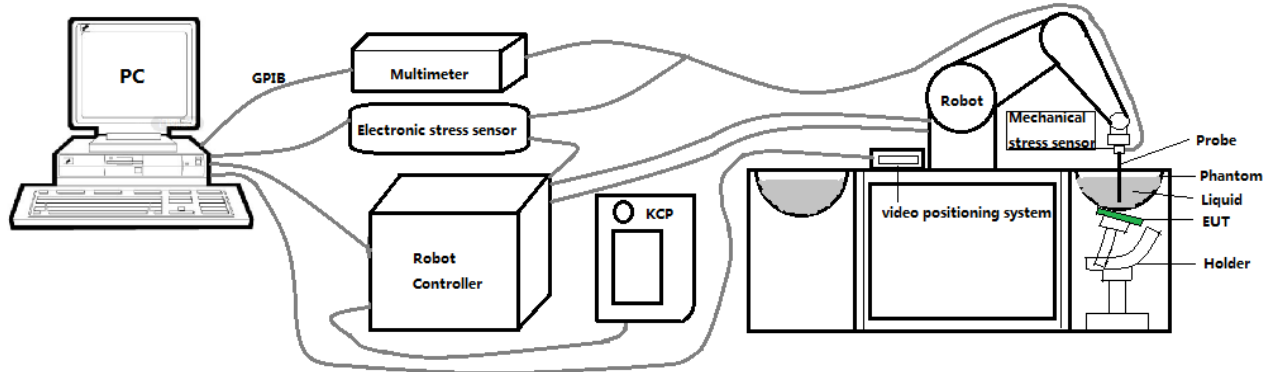
FCC 47 CFR Part 2(2.1093)
ANSI/IEEE C95.1-1992
IEEE Std 1528-2013
KDB 865664 D01 SAR measurement 100 MHz to 6 GHz
KDB 865664 D02 RF Exposure Reporting
KDB 447498 D01 General RF Exposure Guidance
KDB 248227 D01 802.11 Wi-Fi SAR
KDB 941225 D01 3G SAR Procedures
KDB 941225 D05 SAR for LTE Devices
KDB 941225 D06 Hotspot SAR
KDB 648474 D04 Handset SAR

**1.5. Ambient Condition**

Ambient temperature	20°C – 24°C
Relative Humidity	30% – 70%

## 2. SAR Measurement System

### 2.1. SATIMO SAR Measurement Set-up Diagram



These measurements were performed with the automated near-field scanning system OPENSAR from SATIMO. The system is based on a high precision robot (working range: 901 mm), which positions the probes with a positional repeatability of better than  $\pm 0.03$  mm. The SAR measurements were conducted with dosimetric probe (manufactured by SATIMO), designed in the classical triangular configuration and optimized for dosimetric evaluation.

The first step of the field measurement is the evaluation of the voltages induced on the probe by the device under test. Probe diode detectors are nonlinear. Below the diode compression point, the output voltage is proportional to the square of the applied E-field; above the diode compression point, it is linear to the applied E-field. The compression point depends on the diode, and a calibration procedure is necessary for each sensor of the probe.

The Keithley multimeter reads the voltage of each sensor and send these three values to the PC. The corresponding E field value is calculated using the probe calibration factors, which are stored in the working directory. This evaluation includes linearization of the diode characteristics. The field calculation is done separately for each sensor. Each component of the E field is displayed on the "Dipole Area Scan Interface" and the total E field is displayed on the "3D Interface"

## 2.2. Robot

The SATIMO SAR system uses the high precision robots from KUKA. For the 6-axis controller system, the robot controller version (KUKA) from KUKA is used. The KUKA robot series have many features that are important for our application:



- High precision (repeatability  $\pm 0.03$  mm)
- High reliability (industrial design)
- Jerk-free straight movements
- Low ELF interference (the closed metallic construction shields against motor control fields)

### 2.3. E-Field Probe

This E-field detection probe is composed of three orthogonal dipoles linked to special Schottky diodes with low detection thresholds. The probe allows the measurement of electric fields in liquids such as the one defined in the IEEE and CENELEC standards.

For the measurements the Specific Dosimetric E-Field Probe 3423-EPGO-426 with following specifications is used



- Dynamic range: 0.01-100 W/kg
  - Tip Diameter : 2.5 mm
  - Distance between probe tip and sensor center: 1 mm
  - Distance between sensor center and the inner phantom surface: 2 mm (repeatability better than  $\pm 1$  mm).
  - Probe linearity:  $\pm 0.06$  dB
  - Axial isotropy:  $\pm 0.01$  dB
  - Hemispherical Isotropy:  $\pm 0.01$  dB
  - Calibration range: 650MHz to 5900MHz for head & body simulating liquid.
  - Lower detection limit: 8mW/kg
- Angle between probe axis (evaluation axis) and surface normal line: less than  $30^\circ$ .

#### 2.3.1. E-Field Probe Calibration

Each probe needs to be calibrated according to a dosimetric assessment procedure with accuracy better than  $\pm 10\%$ . The spherical isotropy shall be evaluated and within  $\pm 0.25$ dB. The sensitivity parameters (Norm X, Norm Y, and Norm Z), the diode compression parameter (DCP) and the conversion factor (Conv F) of the probe are tested. The calibration data can be referred to appendix D of this report.

## 2.4. SAM phantoms

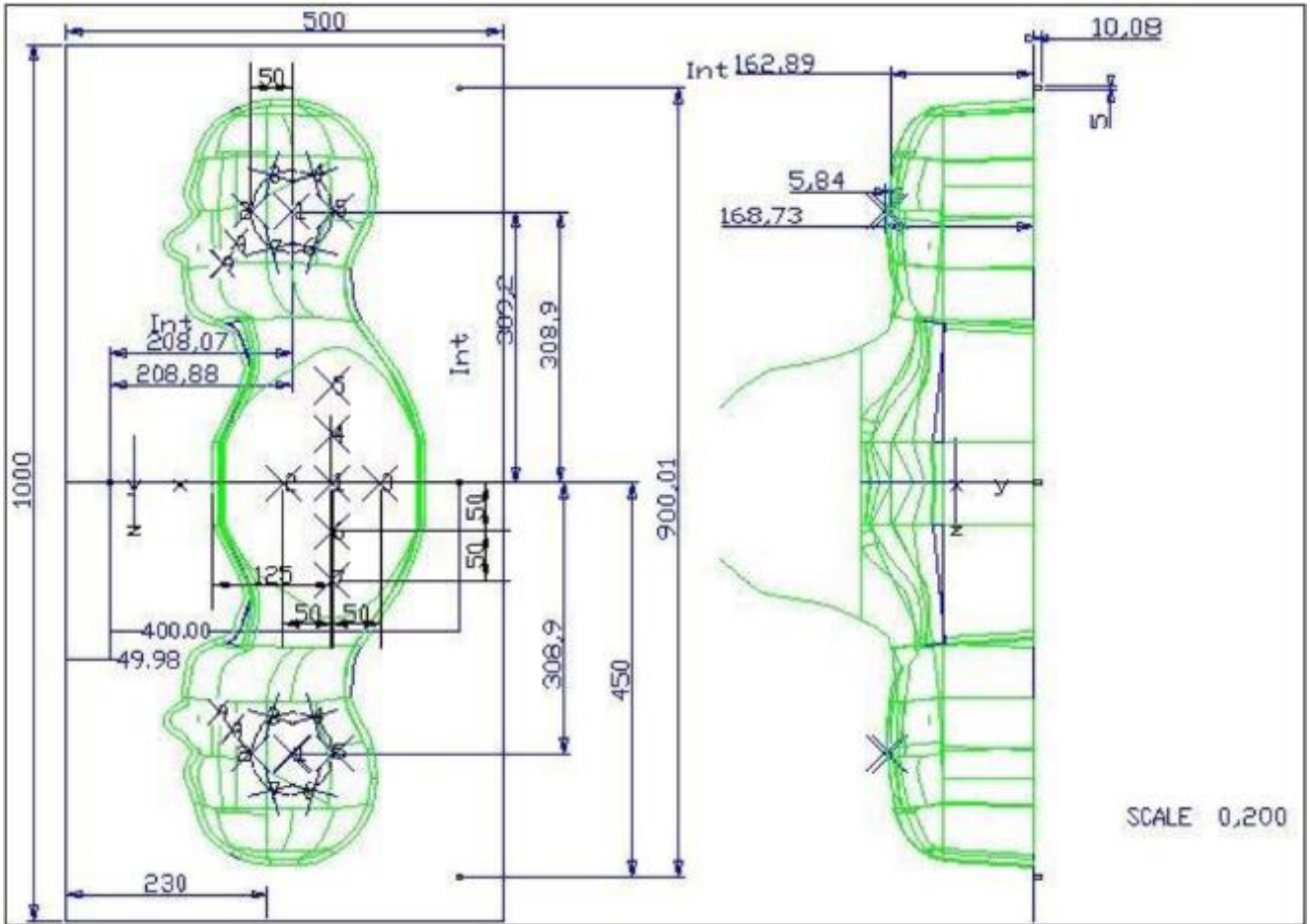
Photo of SAM phantom SN 16/15 SAM119



The SAM phantom is used to measure the SAR relative to people exposed to electro-magnetic field radiated by Smart Phones.

**2.4.1. Technical Data**

Serial Number	Shell thickness	Filling volume	Dimensions	Positionner Material	Permittivity	Loss Tangent
<b>SN 16/15 SAM119</b>	2 mm ±0.2 mm	27 liters	Length:1000 mm Width:500 mm Height:200 mm	Gelcoat with fiberglass	3.4	0.02

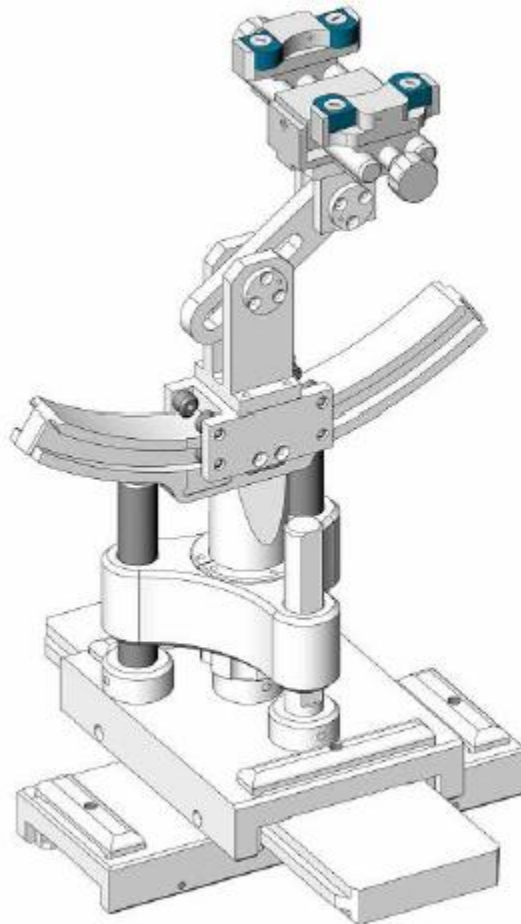


Serial Number	Left Head(mm)		Right Head(mm)		Flat Part(mm)	
	1	2	1	2	1	2
<b>SN 16/15 SAM119</b>	2	2.02	2	2.08	1	2.09
	3	2.05	3	2.06	2	2.06
	4	2.07	4	2.07	3	2.08
	5	2.08	5	2.08	4	2.10
	6	2.05	6	2.07	5	2.10
	7	2.05	7	2.05	6	2.07
	8	2.07	8	2.06	7	2.07
	9	2.08	9	2.06	-	-

The test, based on ultrasonic system, allows measuring the thickness with an accuracy of 10 µm.

## 2.5. Device Holder

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



Serial Number	Holder Material	Permittivity	Loss Tangent
SN 16/15 MSH100	Delrin	3.7	0.005

## 2.6. Test Equipment List

This table gives a complete overview of the SAR measurement equipment.

Devices used during the test described are marked

	Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
					Last Cal.	Due Date
<input checked="" type="checkbox"/>	MVG	E FIELD PROBE	SSE2	3423-EPGO-426	Sep. 18, 2023	Sep. 17, 2024
<input checked="" type="checkbox"/>	MVG	750 MHz Dipole	SID750	SN 03/15 DIP 0G750-355	Mar. 01, 2021	Feb. 28, 2024
<input checked="" type="checkbox"/>	MVG	835 MHz Dipole	SID835	SN 03/15 DIP 0G835-347	Mar. 01, 2021	Feb. 28, 2024
<input type="checkbox"/>	MVG	900 MHz Dipole	SID900	SN 03/15 DIP 0G900-348	Mar. 01, 2021	Feb. 28, 2024
<input checked="" type="checkbox"/>	MVG	1800 MHz Dipole	SID1800	SN 03/15 DIP 1G800-349	Mar. 01, 2021	Feb. 28, 2024
<input checked="" type="checkbox"/>	MVG	1900 MHz Dipole	SID1900	SN 03/15 DIP 1G900-350	Mar. 01, 2021	Feb. 28, 2024
<input type="checkbox"/>	MVG	2000 MHz Dipole	SID2000	SN 03/15 DIP 2G000-351	Mar. 01, 2021	Feb. 28, 2024
<input type="checkbox"/>	MVG	2300 MHz Dipole	SID2300	SN 03/16 DIP 2G300-358	Mar. 01, 2021	Feb. 28, 2024
<input checked="" type="checkbox"/>	MVG	2450 MHz Dipole	SID2450	SN 03/15 DIP 2G450-352	Mar. 01, 2021	Feb. 28, 2024
<input checked="" type="checkbox"/>	MVG	2600 MHz Dipole	SID2600	SN 03/15 DIP 2G600-356	Mar. 01, 2021	Feb. 28, 2024
<input type="checkbox"/>	MVG	3500 MHz Dipole	SID3500	SN 09/12 DIP 3G500-360	Oct. 15, 2022	Oct. 14, 2025
<input checked="" type="checkbox"/>	MVG	5000 MHz Dipole	SWG5500	SN 13/14 WGA 33	Mar. 01, 2021	Feb. 28, 2024
<input checked="" type="checkbox"/>	MVG	Liquid measurement Kit	SCLMP	SN 21/15 OCPG 72	NCR	NCR
<input checked="" type="checkbox"/>	MVG	Power Amplifier	N.A	AMPLISAR_28/14_003	NCR	NCR
<input checked="" type="checkbox"/>	KEITHLEY	Millivoltmeter	2000	4072790	NCR	NCR
<input checked="" type="checkbox"/>	R&S	Universal radio communication tester	CMU200	117858	May 29, 2023	May 28, 2024
<input checked="" type="checkbox"/>	R&S	Wideband radio communication	CMW500	103917	May 29, 2023	May 28, 2024



		tester				
<input checked="" type="checkbox"/>	HP	Network Analyzer	8753D	3410J01136	May 29, 2023	May 28, 2024
<input checked="" type="checkbox"/>	Agilent	MXG Vector Signal Generator	N5182A	MY47070317	May 29, 2023	May 28, 2024
<input checked="" type="checkbox"/>	Agilent	Power meter	E4419B	MY45102538	May 29, 2023	May 28, 2024
<input checked="" type="checkbox"/>	Agilent	Power sensor	E9301A	MY41495644	May 29, 2023	May 28, 2024
<input checked="" type="checkbox"/>	Agilent	Power sensor	E9301A	US39212148	May 29, 2023	May 28, 2024
<input checked="" type="checkbox"/>	MCLI/USA	Directional Coupler	CB11-20	0D2L51502	Jul. 04, 2023	Jul. 03, 2024
<input checked="" type="checkbox"/>	N/A	Thermometer	N/A	LES-085	Mar. 27, 2023	Mar. 26, 2026
<input checked="" type="checkbox"/>	MVG	SAM Phantom	SSM2	SN 16/15 SAM119	NCR	NCR
<input checked="" type="checkbox"/>	MVG	Device Holder	SMPPD	SN 16/15 MSH100	NCR	NCR
<input checked="" type="checkbox"/>	Shenzhen Tianxu Communication Technology Co., Ltd.	Human Simulating Liquid	Head 750	Head 750	NCR	NCR
<input checked="" type="checkbox"/>	Shenzhen Tianxu Communication Technology Co., Ltd.	Human Simulating Liquid	Head 835	Head 835	NCR	NCR
<input checked="" type="checkbox"/>	Shenzhen Tianxu Communication Technology Co., Ltd.	Human Simulating Liquid	Head 1800	Head 1800	NCR	NCR
<input checked="" type="checkbox"/>	Shenzhen Tianxu Communication Technology Co., Ltd.	Human Simulating Liquid	Head 1900	Head 1900	NCR	NCR
<input checked="" type="checkbox"/>	Shenzhen Tianxu Communication Technology Co., Ltd.	Human Simulating Liquid	Head 2450	Head 2450	NCR	NCR

	Co., Ltd.					
<input checked="" type="checkbox"/>	Shenzhen Tianxu Communication Technology Co., Ltd.	Human Simulating Liquid	Head 2600	Head 2600	NCR	NCR
<input checked="" type="checkbox"/>	Shenzhen Tianxu Communication Technology Co., Ltd.	Human Simulating Liquid	Head 5200	Head 5200	NCR	NCR
<input checked="" type="checkbox"/>	Shenzhen Tianxu Communication Technology Co., Ltd.	Human Simulating Liquid	Head 5800	Head 5800	NCR	NCR

### 3. SAR Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

- (a) For WWAN power measurement, use base station simulator to configure EUT WWAN transmission in conducted connection with RF cable, at maximum power in each supported wireless interface and frequency band.
- (b) Read the WWAN RF power level from the base station simulator.
- (c) For Wi-Fi/BT power measurement, use engineering software to configure EUT Wi-Fi/BT continuously transmission, at maximum RF power in each supported wireless interface and frequency band.
- (d) Connect EUT RF port through RF cable to the power meter, and measure Wi-Fi/BT output power.

<SAR measurement>

- (a) Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT Wi-Fi/BT continuously transmission, at maximum RF power, in the highest power channel.
- (b) Place the EUT in the positions as Appendix A demonstrates.
- (c) Set scan area, grid size and other setting on the OPENSAR software.
- (d) Measure SAR results for the highest power channel on each testing position.
- (e) Find out the largest SAR result on these testing positions of each band.
- (f) Measure SAR results for other channels in worst SAR testing position if the reported SAR of 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:

- (a) Power reference measurement
- (b) Area scan
- (c) Zoom scan
- (d) Power drift measurement

#### 3.1. Power Reference

The Power Reference Measurement and Power Drift Measurements 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.

#### 3.2. Area scan & Zoom scan

The area scan is a 2D scan to find the hot spot location on the DUT. The zoom scan is a 3D scan

above the hot spot to calculate the 1g and 10g SAR value.

Measurement of the SAR distribution with a grid of 8 to 16 mm \* 8 to 16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme. Around this point, a cube of 30 \* 30 \* 30 mm or 32 \* 32 \* 32 mm is assessed by measuring 5 or 8 \* 5 or 8 \* 4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

From the scanned SAR distribution, identify the position of the maximum SAR value, in addition identify the positions of any local maxima with SAR values within 2 dB of the maximum value that will not be within the zoom scan of other peaks; additional peaks shall be measured only when the primary peak is within 2 dB of the SAR compliance limit (e.g., 1 W/kg for 1,6 W/kg 1 g limit, or 1,26 W/kg for 2 W/kg, 10 g limit).

Area scan & Zoom scan scan parameters extracted from FCC KDB 865664 D01 SAR measurement 100 MHz to 6 GHz.

		≤ 3 GHz	> 3 GHz	
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface		5 ± 1 mm	½·δ·ln(2) ± 0.5 mm	
Maximum probe angle from probe axis to phantom surface normal at the measurement location		30° ± 1°	20° ± 1°	
Maximum area scan spatial resolution: Δx <sub>Area</sub> , Δy <sub>Area</sub>		≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm	
		When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.		
Maximum zoom scan spatial resolution: Δx <sub>Zoom</sub> , Δy <sub>Zoom</sub>		≤ 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: Δz <sub>Zoom</sub> (n)	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm	
	graded grid	Δz <sub>Zoom</sub> (1): between 1 <sup>st</sup> two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		Δz <sub>Zoom</sub> (n>1): between subsequent points	≤ 1.5·Δz <sub>Zoom</sub> (n-1)	
Minimum zoom scan volume	x, y, z	≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm	

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.

\* When zoom scan is required and the *reported* SAR from the *area scan based 1-g SAR estimation* procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

### **3.3. Description of interpolation/extrapolation scheme**

The local SAR inside the phantom is measured using small dipole sensing elements inside a probe body. The probe tip must not be in contact with the phantom surface in order to minimise measurements errors, but the highest local SAR will occur at the surface of the phantom.

An extrapolation is used to determine these highest local SAR values. The extrapolation is based on a fourth-order least-square polynomial fit of measured data. The local SAR value is then extrapolated from the liquid surface with a 1 mm step.

The measurements have to be performed over a limited time (due to the duration of the battery) so the step of measurement is high. It could vary between 5 and 8 mm. To obtain an accurate assessment of the maximum SAR averaged over 10 grams and 1 gram requires a very fine resolution in the three dimensional scanned data array.

### **3.4. Volumetric Scan**

The volumetric scan consists of a full 3D scan over a specific area. This 3D scan is useful for multi Tx SAR measurement. Indeed, it is possible with OpenSAR to add, point by point, several volumetric scans to calculate the SAR value of the combined measurement as it is defined in the standard IEEE1528 and IEC62209.

### **3.5. Power Drift**

All SAR testing is under the EUT installed with a full charged battery and transmit maximum output power. In OpenSAR 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 V/m. If the power drifts more than  $\pm 5\%$ , the SAR will be retested.

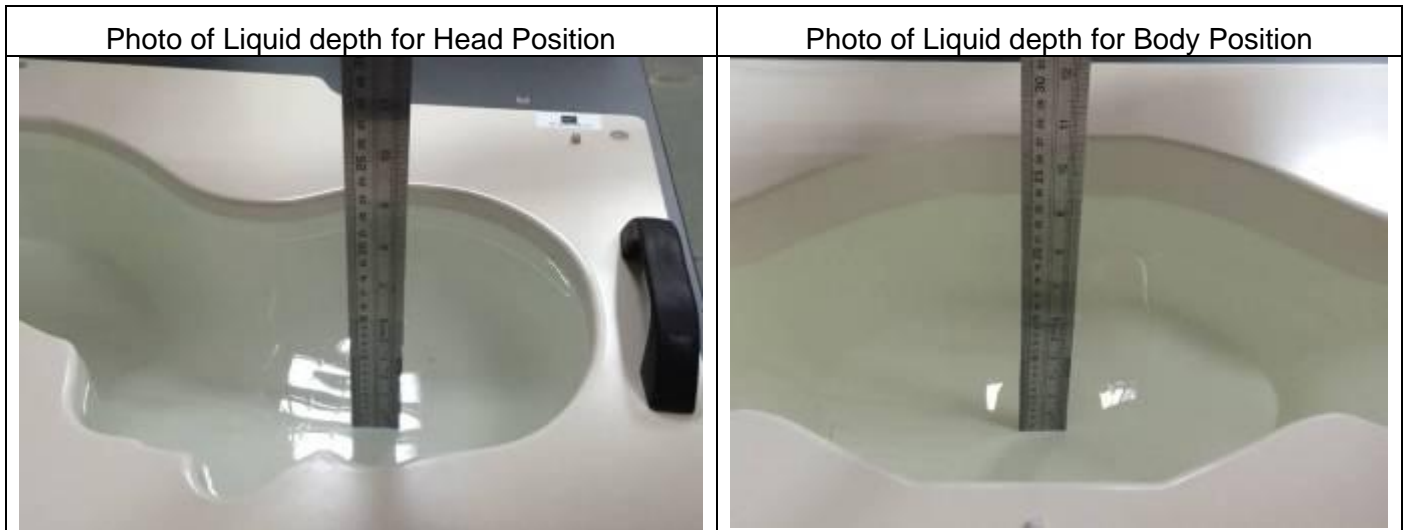
## 4. System Verification Procedure

### 4.1. Tissue Verification

The following tissue formulations are provided for reference only as some of the parameters have not been thoroughly verified. The composition of ingredients may be modified accordingly to achieve the desired target tissue parameters required for routine SAR evaluation.

Ingredients (% of weight)	Head Tissue									
	750	835	900	1800	1900	2000	2450	2600	5200	5800
Frequency Band (MHz)										
Water	34.40	34.40	34.40	55.36	55.36	57.87	57.87	57.87	65.53	65.53
NaCl	0.79	0.79	0.79	0.35	0.35	0.16	0.16	0.16	0.00	0.00
1,2-Propanediol	64.81	64.81	64.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Triton X-100	0.00	0.00	0.00	30.45	30.45	19.97	19.97	19.97	24.24	24.24
DGBE	0.00	0.00	0.00	13.84	13.84	22.00	22.00	22.00	10.23	10.23

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15 cm. For head SAR testing, the liquid depth from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm.



#### 4.1.1. Tissue Dielectric Parameter Check Results

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

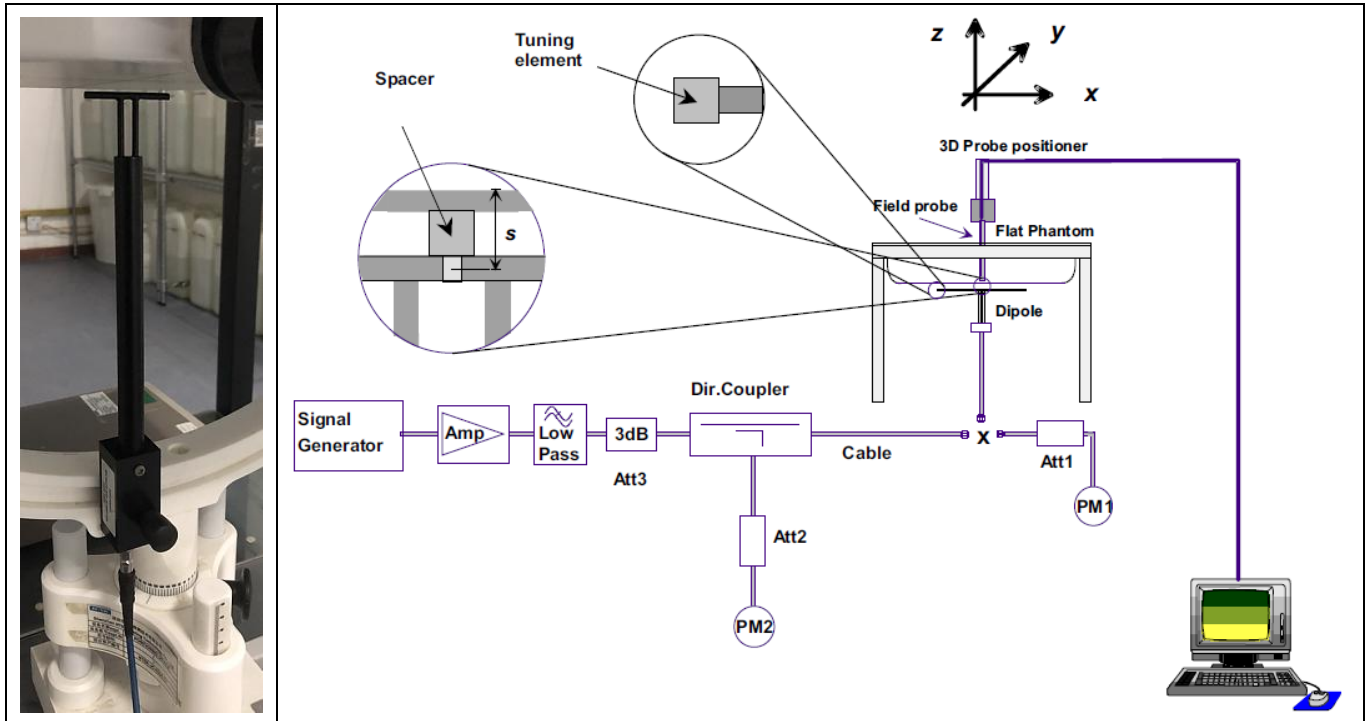
Tissue Type	Measured Frequency (MHz)	Target Tissue		Measured Tissue		Liquid Temp.	Test Date
		$\epsilon_r$ ( $\pm 5\%$ )	$\sigma$ (S/m) ( $\pm 5\%$ )	$\epsilon_r$	$\sigma$ (S/m)		
Head 750	750	41.96 (39.86~44.06)	0.89 (0.85~0.93)	42.18	0.92	21.3 °C	Nov. 11, 2023
Head 850	835	41.50 (39.43~43.58)	0.90 (0.86~0.95)	41.55	0.90	21.8 °C	Nov. 24, 2023
Head 1800	1800	40.00 (38.00~42.00)	1.40 (1.33~1.47)	39.76	1.40	21.7 °C	Nov. 18, 2023
Head 1900	1900	40.00 (38.00~42.00)	1.40 (1.33~1.47)	39.13	1.46	21.4 °C	Nov. 23, 2023
Head 2450	2450	39.20 (37.24~41.16)	1.80 (1.71~1.89)	38.58	1.78	21.9 °C	Nov. 17, 2023
Head 2600	2600	39.01 (37.06~40.96)	1.96 (1.86~2.06)	38.48	1.91	21.3 °C	Nov. 22, 2023
Head 5200	5200	36.00 (34.20~37.80)	4.66 (4.43~4.89)	35.51	4.50	21.3 °C	Nov. 21, 2023
Head 5800	5800	35.30 (33.54~37.07)	5.27 (5.01~5.53)	35.05	5.33	21.6 °C	Nov. 20, 2023

NOTE: The dielectric parameters of the tissue-equivalent liquid should be measured under similar ambient conditions and within 2 °C of the conditions expected during the SAR evaluation to satisfy protocol requirements.

### 4.2. System Verification Procedure

The system verification is performed for verifying the accuracy of the complete measurement system and performance of the software. The dipole is connected to the signal source consisting of signal generator and amplifier via a directional coupler, N-connector cable and adaption to SMA. It is fed with a power of 100mW (below 5GHz) or 100mW (above 5GHz). To adjust this power a power meter is used. The power sensor is connected to the cable before the system verification to measure the power at this point and do adjustments at the signal generator. At the outputs of the directional coupler both return loss as well as forward power are controlled during the system verification to make sure that emitted power at the dipole is kept constant. This can also be checked by the power drift measurement after the test (result on plot).

The system verification is shown as below picture:





#### 4.2.1. System Verification Results

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

System Verification	Target SAR (1W)		Measured SAR		Liquid Temp.	Delta (%)		Test Date
	( $\pm 10\%$ )		(Normalized to 1W)			1-g ( $\pm 10\%$ )	10-g ( $\pm 10\%$ )	
	1-g (W/Kg)	10-g (W/Kg)	1-g (W/Kg)	10-g (W/Kg)				
750MHz	8.53 (7.68~9.38)	5.56 (5.01~6.11)	8.95	5.28	21.3 °C	4.92%	-5.04%	Nov. 11, 2023
835MHz	9.84 (8.86~10.82)	6.22 (5.60~6.84)	9.23	5.87	21.8 °C	-6.20%	-5.63%	Nov. 24, 2023
1800MHz	37.96 (34.17~41.75)	19.81 (17.83~21.79)	36.38	21.50	21.7 °C	-4.16%	8.53%	Nov. 18, 2023
1900MHz	40.37 (36.34~44.40)	20.48 (18.44~22.52)	38.30	20.93	21.4 °C	-5.13%	2.20%	Nov. 23, 2023
2450MHz	53.69 (48.33~59.05)	23.94 (21.55~26.33)	57.42	21.90	21.9 °C	6.95%	-7.01%	Nov. 17, 2023
2600MHz	55.83 (50.25~61.41)	24.19 (21.78~26.60)	57.87	23.11	21.3 °C	3.65%	-4.46%	Nov. 22, 2023
5200MHz	162.34 (146.11~178.57)	55.42 (49.88~60.96)	150.23	55.63	21.3 °C	-7.46%	0.38%	Nov. 21, 2023
5800MHz	178.89 (161.01~196.77)	59.32 (53.39~65.25)	178.89	53.88	21.6 °C	0.00%	-9.17%	Nov. 20, 2023

## **5. SAR Measurement variability and uncertainty**

### **5.1. SAR measurement variability**

Per KDB865664 D01 SAR measurement 100 MHz to 6 GHz, SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. The additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

- 1) Repeated measurement is not required when the original highest measured SAR is  $< 0.80$  W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is  $\geq 0.80$  W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is  $> 1.20$  or when the original or repeated measurement is  $\geq 1.45$  W/kg (~ 10% from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is  $\geq 1.5$  W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is  $> 1.20$ .

### **5.2. SAR measurement uncertainty**

Per KDB865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is  $< 1.5$  W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. The equivalent ratio (1.5/1.6) is applied to extremity and occupational exposure conditions.

## 6. RF Exposure Positions

### 6.1. Ear and handset reference point

Figure 6.1.1 shows the front, back, and side views of the SAM phantom. The center-of-mouth reference point is labeled “M”, the left ear reference point (ERP) is marked “LE”, and the right ERP is marked “RE”.



Fig 6.1.1 Front, back, and side views of SAM phantom

### 6.2. Definition of the cheek position

1. Define two imaginary lines on the handset, the vertical centerline and the horizontal line. The vertical centerline passes through two points on the front side of the handset: the midpoint of the width  $w_t$  of the handset at the level of the acoustic output (point A in Figure 6.2.1 and Figure 6.2.2), and the midpoint of the width  $w_b$  of the bottom of the handset (point B). The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output (see Figure 6.2.1). The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily parallel to the front face of the handset (see Figure 6.2.2), especially for clamshell handsets, handsets with flip covers, and other irregularly-shaped handsets.
2. Position the handset close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 6.2.3), such that the plane defined by the vertical centerline and the horizontal line of the handset is approximately parallel to the sagittal plane of the phantom.
3. Translate the handset towards the phantom along the line passing through RE and LE until handset point A touches the pinna at the ERP
4. While maintaining the handset in this plane, rotate it around the LE-RE line until the vertical centerline is in the plane normal to the plane containing B-M and N-F lines, i.e., the Reference Plane.
5. Rotate the handset around the vertical centerline until the handset (horizontal line) is parallel to the N-F line.

6. While maintaining the vertical centerline in the Reference Plane, keeping point A on the line passing through RE and LE, and maintaining the handset contact with the pinna, rotate the handset about the N-F line until any point on the handset is in contact with a phantom point below the pinna on the cheek. See Figure 6.2.3. The actual rotation angles should be documented in the test report.

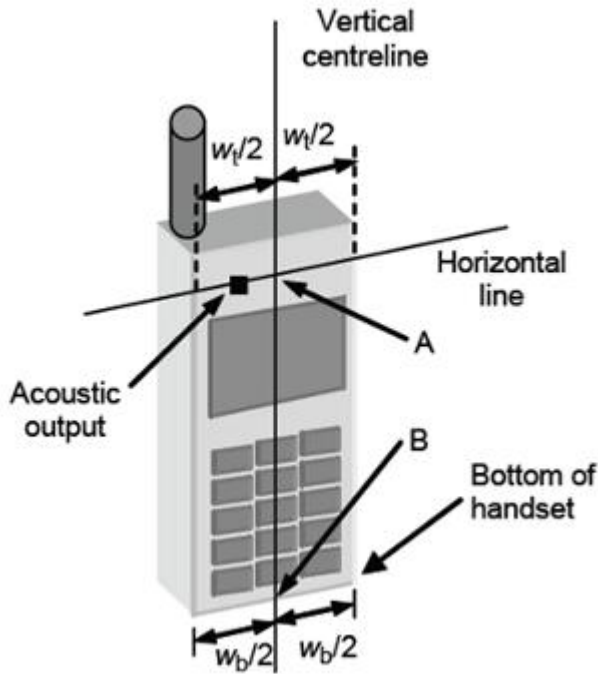


Fig 6.2.1 Handset vertical and horizontal reference lines—“fixed case”

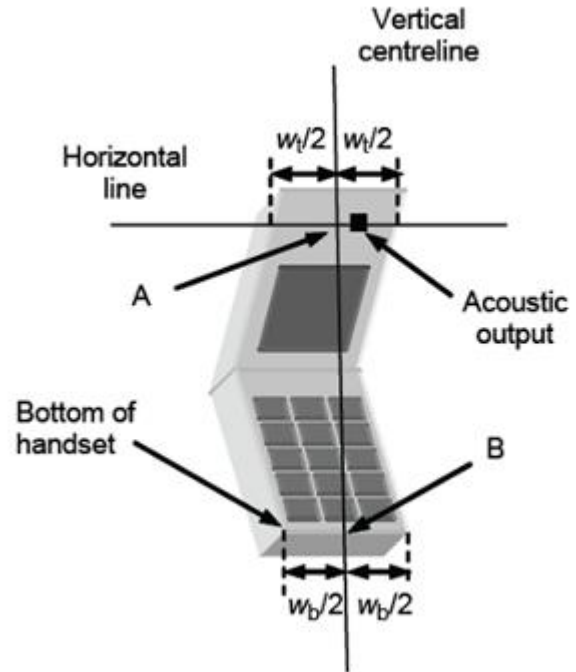


Fig 6.2.2 Handset vertical and horizontal reference lines— “clam-shell case”

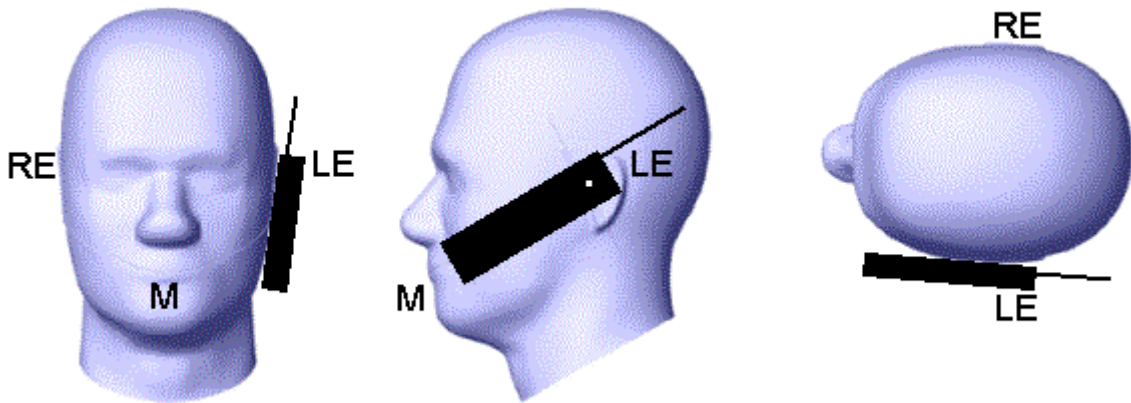


Fig 6.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

### 6.3. Definition of the tilt position

1. While maintaining the orientation of the handset, retract the handset parallel to the reference plane far enough away from the phantom to enable a rotation of the device by 15 degree.
2. Rotate the Handset around the horizontal line by 15 degree (see Figure 6.3.1).
3. While maintaining the orientation of the handset, move the handset towards the phantom on a line passing through RE and LE until any part of the handset touches the ear. The tilt position is obtained when the contact is on the pinna. If the contact is at any location other than the pinna, e.g., the antenna with the back of the phantom head, the angle of the handset shall be reduced. In this case, the tilt position is obtained if any part of the handset is in contact with the pinna as well as a second part of the handset is in contact with the phantom, e.g., the antenna with the back of the head.

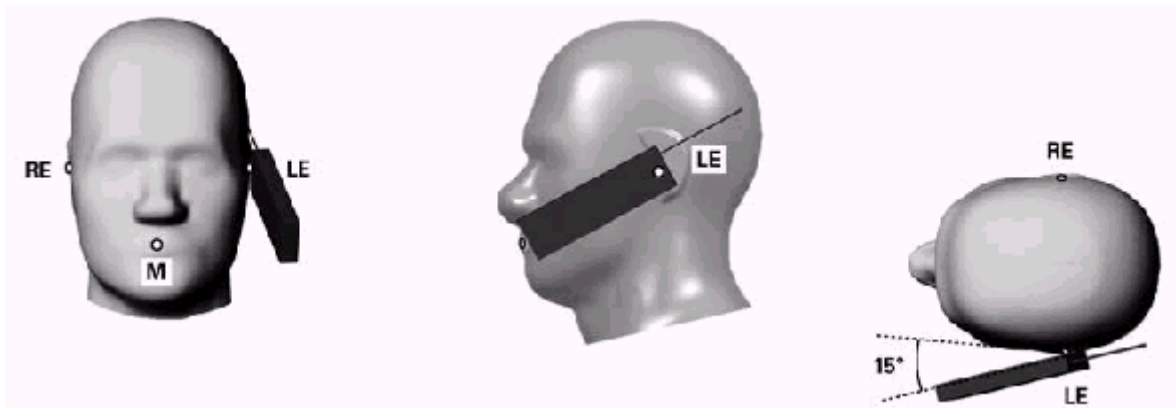


Figure 6.3.1 – Tilt position of the wireless device on the left side of SAM

### 6.4. Body Worn Accessory

1. Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 6.4.1). Per KDB 648474 D04, body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB 447498 D01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for body-worn accessory, measured without a headset connected to the handset is  $< 1.2$  W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a handset attached to the handset.
2. Accessories for body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest

spacing to the body. Then multiple accessories that contain metallic components are test with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

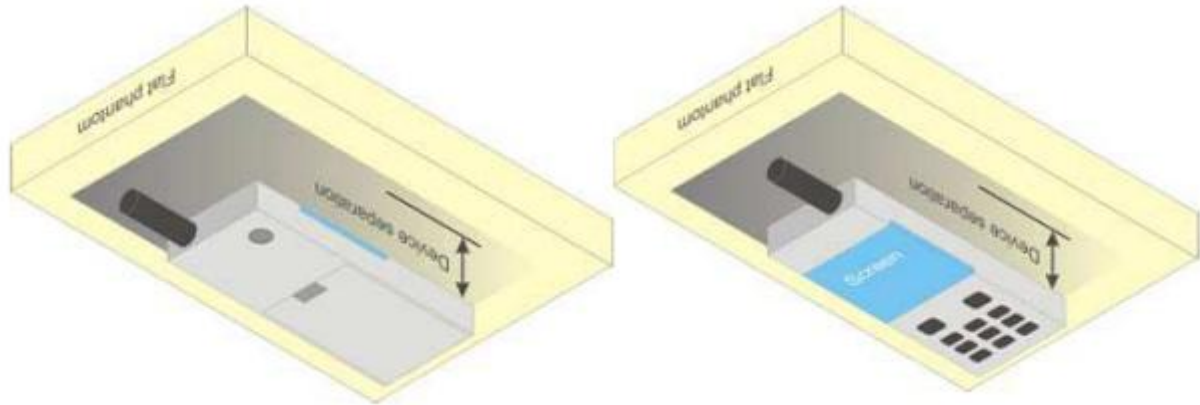


Figure 6.4.1 – Test positions for body-worn devices

### 6.5. Wireless Router Devices

Some battery-operated handsets have the capability to transmit and receive user through simultaneous transmission of WLAN simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06 where SAR test considerations for handsets ( $L \times W \geq 9 \text{ cm} \times 5 \text{ cm}$ ) are based on a composite test separation distance of 10mm from the front, back and edges of the device containing transmitting antennas within 2.5cm of their edges, 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 WLAN 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 due to the limitations of the SAR assessment probes. Therefore, SAR must be evaluated for each frequency transmission and mode separately and spatially summed with the WLAN transmitter according to FCC KDB Publication 447498 D01 publication procedures. The “Portable Hotspot” feature on the handset was NOT activated during SAR assessments, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal at a time.

## 7. RF Output Power

### 7.1. GSM Conducted Power

Band GSM850	Burst-Averaged output Power (dBm)				Frame-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	128	189	251	Tune-up	128	189	251
Frequency (MHz)		824.2	836.4	848.8		824.2	836.4	848.8
GSM (GMSK)	34.00	33.83	33.69	33.78	24.97	24.80	24.66	24.75
GPRS(GMSK,1 Tx slot)	34.00	33.89	33.81	33.88	24.97	24.86	24.78	24.85
GPRS(GMSK,2 Tx slot)	33.00	32.64	32.50	32.49	26.98	26.62	26.48	26.47
GPRS(GMSK,3 Tx slot)	30.50	30.06	29.90	29.76	26.24	25.80	25.64	25.50
GPRS(GMSK,4 Tx slot)	29.00	28.82	28.63	28.47	25.99	25.81	25.62	25.46
EGPRS(8PSK,1 Tx slot)	27.00	26.37	26.77	25.95	17.97	17.34	17.74	16.92
EGPRS(8PSK,2 Tx slot)	25.50	25.39	25.15	25.04	19.48	19.37	19.13	19.02
EGPRS(8PSK,3 Tx slot)	24.00	23.75	23.16	22.98	19.74	19.49	18.90	18.72
EGPRS(8PSK,4 Tx slot)	22.50	22.20	22.13	21.95	19.49	19.19	19.12	18.94

Band GSM1900	Burst-Averaged output Power (dBm)				Frame-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	512	661	810	Tune-up	512	661	810
Frequency (MHz)		1850.2	1880	1909.8		1850.2	1880	1909.8
GSM (GMSK)	31.50	31.09	31.04	30.91	22.47	22.06	22.01	21.88
GPRS(GMSK,1 Tx slot)	31.50	31.07	31.02	30.91	22.47	22.04	21.99	21.88
GPRS(GMSK,2 Tx slot)	30.00	29.96	29.91	29.78	23.98	23.94	23.89	23.76
GPRS(GMSK,3 Tx slot)	27.50	27.45	27.42	27.28	23.24	23.19	23.16	23.02
GPRS(GMSK,4 Tx slot)	26.50	26.35	26.29	26.19	23.49	23.34	23.28	23.18
EGPRS(8PSK,1 Tx slot)	27.50	27.21	26.62	26.76	18.47	18.18	17.59	17.73
EGPRS(8PSK,2 Tx slot)	26.00	25.72	25.14	25.92	19.98	19.70	19.12	19.90
EGPRS(8PSK,3 Tx slot)	24.00	23.58	23.31	23.83	19.74	19.32	19.05	19.57
EGPRS(8PSK,4 Tx slot)	23.50	23.05	22.77	22.54	20.49	20.04	19.76	19.53

### 7.2. WCDMA Conducted Power

WCDMA Band 2	Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	9262	9400	9538
Frequency (MHz)		1852.4	1880	1907.6
RMC12.2K	25.00	24.44	24.53	24.63
HSDPA Sub 1	24.00	23.50	23.60	23.69

HSDPA Sub 2	23.50	23.01	23.22	23.15
HSDPA Sub 3	22.50	22.03	21.96	22.16
HSDPA Sub 4	22.00	21.72	21.83	21.66
HSUPA Sub 1	23.50	22.10	23.32	23.46
HSUPA Sub 2	24.00	23.32	23.41	23.50
HSUPA Sub 3	22.50	21.53	22.27	22.41
HSUPA Sub 4	24.00	23.45	23.53	23.64
HSUPA Sub 5	23.00	22.18	22.87	22.74
WCDMA Band 4	Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	1312	1413	1513
Frequency (MHz)		1712.4	1732.6	1752.6
RMC12.2K	24.50	24.37	24.26	24.40
HSDPA Sub 1	23.50	23.40	23.29	23.43
HSDPA Sub 2	23.00	22.78	22.79	22.94
HSDPA Sub 3	22.00	21.98	21.54	21.95
HSDPA Sub 4	22.00	21.57	21.84	21.85
HSUPA Sub 1	23.50	22.33	23.04	23.19
HSUPA Sub 2	23.50	23.34	23.14	23.22
HSUPA Sub 3	22.50	21.48	21.99	22.04
HSUPA Sub 4	23.50	23.36	23.28	23.39
HSUPA Sub 5	23.00	22.01	22.62	22.56
WCDMA Band 5	Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	4132	4182	4233
Frequency (MHz)		826.4	836.4	846.6
RMC12.2K	24.50	24.05	24.10	24.05
HSDPA Sub 1	23.50	23.11	23.12	23.10
HSDPA Sub 2	23.00	22.64	22.66	22.52
HSDPA Sub 3	22.00	21.67	21.29	21.82
HSDPA Sub 4	22.00	21.40	21.70	21.63
HSUPA Sub 1	23.00	21.62	22.92	22.95
HSUPA Sub 2	23.50	22.98	22.94	23.01
HSUPA Sub 3	22.00	21.38	21.89	21.91
HSUPA Sub 4	23.50	23.10	23.11	23.10
HSUPA Sub 5	22.50	21.75	22.40	22.15



**7.3. LTE Conducted Power**

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18607/1850.7	18900/1880	19193/1909.3
LTE Band 2	1.4MHz	QPSK	1	0	24.50	24.16	24.34	24.40
			1	2	24.50	24.25	24.41	24.47
			1	5	24.50	24.17	24.34	24.41
			3	0	25.00	24.24	24.43	24.53
			3	1	25.00	24.26	24.48	24.59
			3	2	25.00	24.20	24.43	24.55
		16QAM	6	0	24.00	23.26	23.45	23.56
			1	0	24.00	23.04	23.53	23.61
			1	2	24.00	23.09	23.58	23.63
			1	5	24.00	23.00	23.52	23.60
			3	0	24.00	23.38	23.61	23.71
			3	1	24.00	23.41	23.62	23.75
			3	2	24.00	23.38	23.59	23.69
			6	0	23.00	22.47	22.68	22.78
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18615/1851.5	18900/1880	19185/1908.5
LTE Band 2	3MHz	QPSK	1	0	24.50	24.04	24.16	24.35
			1	7	24.50	24.10	24.27	24.43
			1	14	24.50	24.09	24.29	24.38
			8	0	24.00	23.15	23.37	23.50
			8	4	24.00	23.27	23.46	23.60
			8	7	24.00	23.27	23.45	23.52
			15	0	24.00	23.23	23.44	23.54
		16QAM	1	0	23.50	23.42	23.37	23.18
			1	7	23.50	23.49	23.49	23.27
			1	14	23.50	23.46	23.44	23.21
			8	0	23.00	22.25	22.44	22.51
			8	4	23.00	22.30	22.50	22.56
			8	7	23.00	22.27	22.42	22.54
			15	0	23.00	22.26	22.40	22.60
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		



2			1	74	25.00	24.45	24.49	24.59			
			36	0	24.00	23.29	23.50	23.54			
			36	18	24.00	23.41	23.54	23.60			
			36	37	24.00	23.50	23.47	23.56			
			75	0	24.00	23.42	23.53	23.57			
		16QAM	1	0	24.00	23.31	23.85	23.64			
			1	37	24.00	23.51	23.94	23.75			
			1	74	24.00	23.54	23.89	23.73			
			36	0	23.00	22.24	22.53	22.56			
			36	18	23.00	22.39	22.60	22.67			
			36	37	23.00	22.45	22.50	22.56			
			75	0	23.00	22.42	22.51	22.56			
			Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
						RB Size	RB Offset		18700/1860	18900/1880	19100/1900
LTE Band 2	20MHz	QPSK	1	0	25.00	24.15	24.33	24.31			
			1	49	25.00	24.58	24.58	24.63			
			1	99	25.00	24.49	24.43	24.49			
			50	0	24.00	23.25	23.47	23.41			
			50	24	24.00	23.46	23.55	23.60			
			50	49	24.00	23.56	23.42	23.47			
			100	0	23.50	23.38	23.47	23.44			
		16QAM	1	0	24.00	23.40	23.66	23.58			
			1	49	24.00	23.82	23.90	23.83			
			1	99	24.00	23.69	23.76	23.73			
			50	0	23.00	22.34	22.51	22.42			
			50	24	23.00	22.53	22.62	22.57			
			50	49	23.00	22.62	22.48	22.48			
			100	0	22.50	22.44	22.45	22.44			

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		19957/1710.7	20175/1732.5	20393/1754.3
LTE Band 4	1.4MHz	QPSK	1	0	25.00	23.51	24.25	24.47
			1	2	25.00	24.48	24.29	24.53
			1	5	25.00	24.39	24.23	24.44
			3	0	25.00	24.45	24.30	24.48
			3	1	25.00	24.45	24.35	24.51

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		19965/1711.5	20175/1732.5	20385/1753.5
		16QAM	3	2	25.00	24.41	24.25	24.49
			6	0	24.00	23.50	23.39	23.51
			1	0	24.00	23.49	23.11	23.45
			1	2	24.00	23.55	23.18	23.53
			1	5	24.00	23.52	23.13	23.48
			3	0	24.00	23.66	23.46	23.58
			3	1	24.00	23.71	23.51	23.67
			3	2	24.00	23.65	23.49	23.57
			6	0	23.00	22.66	22.56	22.68
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		19965/1711.5	20175/1732.5	20385/1753.5
LTE Band 4	3MHz	QPSK	1	0	24.50	24.30	24.12	24.22
			1	7	24.50	24.36	24.19	24.36
			1	14	24.50	24.33	24.11	24.31
			8	0	24.00	23.44	23.32	23.45
			8	4	24.00	23.52	23.37	23.54
			8	7	24.00	23.48	23.35	23.52
			15	0	24.00	23.47	23.26	23.51
		16QAM	1	0	24.00	23.11	23.59	23.37
			1	7	24.00	23.19	23.63	23.49
			1	14	24.00	23.09	23.56	23.43
			8	0	23.00	22.41	22.36	22.48
			8	4	23.00	22.47	22.41	22.52
			8	7	23.00	22.44	22.38	22.49
			15	0	23.00	22.54	22.38	22.42
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		19975/1712.5	20175/1732.5	20375/1752.5
LTE Band 4	5MHz	QPSK	1	0	25.00	24.51	24.40	24.46
			1	12	25.00	24.55	24.45	24.55
			1	24	25.00	24.51	24.36	24.54
			12	0	24.00	23.47	23.37	23.49
			12	6	24.00	23.56	23.47	23.55
			12	11	24.00	23.54	23.39	23.52
			25	0	24.00	23.49	23.40	23.54
		16QAM	1	0	24.50	23.95	23.71	23.72
			1	12	24.50	24.01	23.77	23.80

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20000/1715	20175/1732.5	20350/1750
			1	24	24.50	24.01	23.71	23.76
			12	0	23.00	22.47	22.36	22.51
			12	6	23.00	22.55	22.37	22.60
			12	11	23.00	22.55	22.37	22.56
			25	0	23.00	22.49	22.47	22.53
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20000/1715	20175/1732.5	20350/1750
LTE Band 4	10MHz	QPSK	1	0	25.00	24.59	24.46	24.44
			1	24	25.00	24.72	24.49	24.58
			1	49	25.00	24.70	24.48	24.55
			25	0	24.00	23.44	23.39	23.41
			25	12	24.00	23.57	23.48	23.52
			25	24	24.00	23.55	23.46	23.53
			50	0	24.00	23.56	23.46	23.51
		16QAM	1	0	24.00	23.36	23.86	23.60
			1	24	24.00	23.50	23.91	23.67
			1	49	24.00	23.49	23.89	23.70
			25	0	23.00	22.47	22.45	22.39
			25	12	23.00	22.60	22.54	22.54
			25	24	23.00	22.58	22.52	22.56
			50	0	23.00	22.48	22.46	22.53
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20025/1717.5	20175/1732.5	20325/1747.5
LTE Band 4	15MHz	QPSK	1	0	25.00	24.56	24.37	24.36
			1	37	25.00	24.65	24.44	24.54
			1	74	25.00	24.52	24.36	24.55
			36	0	24.00	23.52	23.42	23.41
			36	18	24.00	23.60	23.46	23.52
			36	37	24.00	23.53	23.46	23.60
			75	0	24.00	23.61	23.48	23.54
		16QAM	1	0	24.00	23.61	23.49	23.76
			1	37	24.00	23.78	23.60	23.89
			1	74	24.00	23.71	23.55	23.89
			36	0	23.00	22.58	22.39	22.41
			36	18	23.00	22.69	22.42	22.58
			36	37	23.00	22.62	22.43	22.59

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20050/1720	20175/1732.5	20300/1745
			75	0	23.00	22.54	22.49	22.54
LTE Band 4	20MHz	QPSK	1	0	25.00	24.32	24.30	24.23
			1	49	25.00	24.61	24.53	24.59
			1	99	25.00	24.39	24.44	24.57
			50	0	24.00	23.46	23.44	23.38
			50	24	24.00	23.61	23.50	23.51
			50	49	24.00	23.53	23.52	23.57
		16QAM	100	0	24.00	23.50	23.48	23.44
			1	0	24.00	23.66	23.60	23.52
			1	49	24.00	23.91	23.79	23.79
			1	99	24.00	23.78	23.64	23.72
			50	0	23.00	22.52	22.42	22.39
			50	24	23.00	22.66	22.49	22.59
			50	49	23.00	22.57	22.48	22.59
			100	0	23.00	22.52	22.45	22.47

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20407/824.7	20525/836.5	20643/848.3
LTE Band 5	1.4MHz	QPSK	1	0	25.00	24.52	24.64	24.55
			1	2	25.00	24.60	24.72	24.62
			1	5	25.00	24.54	24.64	24.55
			3	0	25.00	24.53	24.74	24.65
			3	1	25.00	24.55	24.78	24.71
			3	2	25.00	24.54	24.72	24.68
		16QAM	6	0	24.00	23.64	23.76	23.79
			1	0	24.00	23.30	23.81	23.72
			1	2	24.00	23.39	23.85	23.76
			1	5	24.00	23.35	23.79	23.76
			3	0	24.00	23.67	23.90	23.84
			3	1	24.00	23.68	23.93	23.94
			3	2	24.00	23.68	23.85	23.89
			6	0	23.00	22.78	22.98	22.90
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20425/826.5	20525/836.5	20625/846.5
LTE Band 5	3MHz	QPSK	1	0	25.00	20415/825.5	20525/836.5	20635/847.5
			1	7	25.00	24.33	24.46	24.43
			1	14	25.00	24.46	24.51	24.50
			8	0	24.00	24.44	24.44	24.46
			8	4	24.00	23.52	23.65	23.63
			8	7	24.00	23.61	23.73	23.69
			8	7	24.00	23.59	23.68	23.67
		16QAM	15	0	24.00	23.55	23.68	23.66
			1	0	24.00	23.16	23.87	23.60
			1	7	24.00	23.25	23.93	23.71
			1	14	24.00	23.20	23.84	23.62
			8	0	23.00	22.43	22.69	22.64
			8	4	23.00	22.56	22.76	22.73
			8	7	23.00	22.53	22.70	22.66
15	0	23.00	22.59	22.69	22.59			
LTE Band 5	5MHz	QPSK	1	0	25.00	20425/826.5	20525/836.5	20625/846.5
			1	12	25.00	24.48	24.69	24.64
			1	24	25.00	24.63	24.78	24.72
			12	0	24.00	24.56	24.72	24.70
			12	6	24.00	23.63	23.65	23.73
			12	11	24.00	23.67	23.78	23.76
			12	11	24.00	23.62	23.74	23.73
		16QAM	25	0	24.00	23.60	23.73	23.74
			1	0	24.50	23.81	24.19	23.91
			1	12	24.50	23.89	24.28	24.02
			1	24	24.50	23.84	24.18	23.97
			12	0	23.00	22.65	22.76	22.69
			12	6	23.00	22.72	22.80	22.74
			12	11	23.00	22.66	22.76	22.68
25	0	23.00	22.57	22.73	22.76			
LTE Band	10MHz	QPSK	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20450/829	20525/836.5	20600/844
LTE Band	10MHz	QPSK	1	0	25.00	24.59	24.67	24.68
			1	24	25.00	24.76	24.80	24.78

5			1	49	25.00	24.73	24.71	24.77
			25	0	24.00	23.59	23.66	23.74
			25	12	24.00	23.68	23.76	23.75
			25	24	24.00	23.68	23.72	23.66
			50	0	24.00	23.63	23.71	23.73
		16QAM	1	0	24.50	23.93	23.84	23.58
			1	24	24.50	24.03	23.96	23.56
			1	49	24.50	24.11	23.86	23.63
			25	0	23.00	22.62	22.69	22.79
			25	12	23.00	22.73	22.80	22.74
			25	24	23.00	22.68	22.74	22.72
			50	0	23.00	22.63	22.77	22.70

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20775/2502.5	21100/2535	21425/2567.5
LTE Band 7	5MHz	QPSK	1	0	25.00	24.49	24.51	24.50
			1	12	25.00	24.59	24.60	24.59
			1	24	25.00	24.54	24.58	24.52
			12	0	24.00	23.51	23.54	23.57
			12	6	24.00	23.59	23.61	23.56
			12	11	24.00	23.60	23.55	23.48
			25	0	24.00	23.54	23.57	23.54
		16QAM	1	0	24.50	23.90	23.75	23.68
			1	12	24.50	24.03	23.86	23.79
			1	24	24.50	23.99	23.79	23.71
			12	0	23.00	22.49	22.48	22.55
			12	6	23.00	22.56	22.49	22.55
			12	11	23.00	22.56	22.47	22.48
			25	0	23.00	22.52	22.57	22.51
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20800/2505	21100/2535	21400/2565
LTE Band 7	10MHz	QPSK	1	0	25.00	24.56	24.56	24.62
			1	24	25.00	24.71	24.63	24.69
			1	49	25.00	24.70	24.64	24.67
			25	0	24.00	23.51	23.52	23.57
			25	12	24.00	23.61	23.61	23.61



Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20825/2507.5	21100/2535	21375/2562.5
		16QAM	25	24	24.00	23.61	23.60	23.52
			50	0	24.00	23.60	23.63	23.57
			1	0	24.00	23.89	23.67	23.35
			1	24	24.00	23.97	23.75	23.47
			1	49	24.00	23.94	23.74	23.43
			25	0	23.00	22.50	22.58	22.58
			25	12	23.00	22.63	22.60	22.56
			25	24	23.00	22.66	22.56	22.51
			50	0	23.00	22.55	22.63	22.52
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20825/2507.5	21100/2535	21375/2562.5
LTE Band 7	15MHz	QPSK	1	0	25.00	24.55	24.45	24.49
			1	37	25.00	24.66	24.57	24.63
			1	74	25.00	24.65	24.56	24.55
			36	0	24.00	23.53	23.58	23.63
			36	18	24.00	23.64	23.70	23.66
			36	37	24.00	23.64	23.64	23.59
			75	0	24.00	23.64	23.66	23.61
		16QAM	1	0	24.00	23.61	23.56	23.82
			1	37	24.00	23.69	23.67	23.88
			1	74	24.00	23.70	23.66	23.86
			36	0	23.00	22.56	22.49	22.60
			36	18	23.00	22.66	22.63	22.64
			36	37	23.00	22.66	22.56	22.52
75	0	23.00	22.58	22.56	22.56			
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20850/2510	21100/2535	21350/2560
LTE Band 7	20MHz	QPSK	1	0	25.00	24.42	24.44	24.46
			1	49	25.00	24.70	24.66	24.71
			1	99	25.00	24.56	24.61	24.56
			50	0	24.00	23.41	23.52	23.55
			50	24	24.00	23.63	23.66	23.65
			50	49	24.00	23.59	23.56	23.50
			100	0	24.00	23.51	23.57	23.53
		16QAM	1	0	24.00	23.55	23.66	23.62
			1	49	24.00	23.84	23.92	23.76

			1	99	24.00	23.71	23.83	23.68
			50	0	23.00	22.45	22.53	22.52
			50	24	23.00	22.65	22.66	22.59
			50	49	23.00	22.61	22.60	22.45
			100	0	23.00	22.55	22.53	22.45

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23017/699.7	23095/707.5	23173/715.3
LTE Band 12	1.4MHz	QPSK	1	0	25.00	24.36	24.30	24.48
			1	2	25.00	24.39	24.38	24.60
			1	5	25.00	24.28	24.29	24.56
			3	0	25.00	24.39	24.42	24.50
			3	1	25.00	24.41	24.45	24.55
			3	2	25.00	24.36	24.39	24.49
		16QAM	6	0	24.00	23.40	23.48	23.67
			1	0	23.50	23.36	23.44	23.19
			1	2	23.50	23.46	23.49	23.31
			1	5	23.50	23.41	23.44	23.21
			3	0	24.00	23.52	23.57	23.56
			3	1	24.00	23.56	23.62	23.60
			3	2	24.00	23.48	23.57	23.58
			6	0	23.00	22.63	22.61	22.76
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23025/700.5	23095/707.5	23165/714.5
LTE Band 12	3MHz	QPSK	1	0	24.50	24.20	24.14	24.27
			1	7	24.50	24.22	24.24	24.43
			1	14	24.50	24.10	24.21	24.43
			8	0	24.00	23.32	23.33	23.49
			8	4	24.00	23.41	23.44	23.58
			8	7	24.00	23.34	23.38	23.51
			15	0	24.00	23.32	23.37	23.50
		16QAM	1	0	24.00	23.48	23.28	23.06
			1	7	24.00	23.57	23.38	23.18
			1	14	24.00	23.52	23.31	23.09
			8	0	23.00	22.39	22.35	22.38
			8	4	23.00	22.42	22.41	22.50

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23035/701.5	23095/707.5	23155/713.5
			8	7	23.00	22.35	22.32	22.48
			15	0	23.00	22.33	22.33	22.50
LTE Band 12	5MHz	QPSK	1	0	25.00	24.38	24.37	24.40
			1	12	25.00	24.43	24.49	24.53
			1	24	25.00	24.38	24.44	24.58
			12	0	24.00	23.39	23.32	23.46
			12	6	24.00	23.46	23.47	23.54
			12	11	24.00	23.42	23.38	23.47
			25	0	24.00	23.41	23.39	23.53
		16QAM	1	0	24.00	23.79	23.64	23.65
			1	12	24.00	23.93	23.73	23.73
			1	24	24.00	23.84	23.66	23.72
			12	0	23.00	22.41	22.29	22.49
			12	6	23.00	22.47	22.41	22.60
			12	11	23.00	22.41	22.33	22.48
			25	0	22.50	22.40	22.40	22.49
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23060/704	23095/707.5	23130/711
LTE Band 12	10MHz	QPSK	1	0	25.00	24.44	24.38	24.45
			1	24	25.00	24.50	24.55	24.51
			1	49	25.00	24.57	24.55	24.64
			25	0	24.00	23.36	23.31	23.44
			25	12	24.00	23.46	23.41	23.50
			25	24	24.00	23.49	23.38	23.51
			50	0	24.00	23.45	23.38	23.53
		16QAM	1	0	24.00	23.52	23.26	23.77
			1	24	24.00	23.62	23.34	23.86
			1	49	24.00	23.61	23.38	23.91
			25	0	23.00	22.43	22.30	22.49
			25	12	23.00	22.52	22.49	22.59
			25	24	23.00	22.49	22.40	22.54
			50	0	23.00	22.48	22.36	22.51
Band	Band	Modulation	RB		Tune-up	Channel/Frequency(MHz)		

	Width		Configuration		(dBm)			
			RB Size	RB Offset		23205/779.5	23230/782	23255/784.5
LTE Band 13	5MHz	QPSK	1	0	25.00	24.67	24.63	24.61
			1	12	25.00	24.78	24.72	24.68
			1	24	25.00	24.69	24.57	24.54
			12	0	24.00	23.63	23.61	23.60
			12	6	24.00	23.74	23.71	23.68
			12	11	24.00	23.70	23.63	23.52
			25	0	24.00	23.66	23.66	23.60
		16QAM	1	0	24.50	23.96	23.89	24.00
			1	12	24.50	24.03	23.90	24.09
			1	24	24.50	23.85	23.81	24.05
			12	0	23.00	22.58	22.61	22.60
			12	6	23.00	22.73	22.72	22.70
			12	11	23.00	22.64	22.65	22.56
			25	0	23.00	22.72	22.60	22.54
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		N/A	23230/782	N/A
LTE Band 13	10MHz	QPSK	1	0	25.00	N/A	23.60	N/A
			1	24	25.00	N/A	24.86	N/A
			1	49	25.00	N/A	24.71	N/A
			25	0	24.00	N/A	23.57	N/A
			25	12	24.00	N/A	23.72	N/A
			25	24	24.00	N/A	23.54	N/A
			50	0	24.00	N/A	23.61	N/A
		16QAM	1	0	24.00	N/A	23.60	N/A
			1	24	24.00	N/A	23.58	N/A
			1	49	24.00	N/A	23.49	N/A
			25	0	23.00	N/A	22.56	N/A
			25	12	23.00	N/A	22.70	N/A
			25	24	23.00	N/A	22.57	N/A
			50	0	23.00	N/A	22.54	N/A

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23755/706.5	23790/710	23825/713.5

LTE Band 17	5MHz	QPSK	1	0	25.00	24.33	24.36	24.47
			1	12	25.00	24.44	24.49	24.60
			1	24	25.00	24.44	24.45	24.64
			12	0	24.00	23.28	23.41	23.48
			12	6	24.00	23.42	23.49	23.53
			12	11	24.00	23.37	23.39	23.46
			25	0	23.50	23.39	23.45	23.48
		16QAM	1	0	24.00	23.58	23.57	23.83
			1	12	24.00	23.66	23.70	23.98
			1	24	24.00	23.63	23.65	23.89
			12	0	23.00	22.24	22.45	22.49
			12	6	23.00	22.36	22.54	22.54
			12	11	23.00	22.32	22.43	22.48
			25	0	22.50	22.40	22.44	22.42
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23780/709	23790/710	23800/711
LTE Band 17	10MHz	QPSK	1	0	25.00	24.41	24.42	24.38
			1	24	25.00	24.57	24.57	24.54
			1	49	25.00	24.63	24.65	24.65
			25	0	24.00	23.28	23.31	23.41
			25	12	24.00	23.45	23.46	23.51
			25	24	24.00	23.40	23.44	23.47
			50	0	23.50	23.36	23.42	23.45
		16QAM	1	0	24.00	23.45	23.18	23.71
			1	24	24.00	23.57	23.31	23.84
			1	49	24.00	23.64	23.36	23.88
			25	0	23.00	22.30	22.35	22.42
			25	12	23.00	22.48	22.49	22.52
			25	24	23.00	22.45	22.46	22.47
			50	0	22.50	22.40	22.42	22.42

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26697/814.7	26740/819	26783/823.3
LTE Band 26a	1.4MHz	QPSK	1	0	25.00	23.82	24.55	24.62
			1	2	25.00	24.69	24.64	24.67
			1	5	25.00	24.63	24.52	24.58

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)				
			RB Size	RB Offset		26705/818.5	26740/819	26775/822.5		
			3	0	25.00	24.68	24.67	24.65		
			3	1	25.00	24.72	24.70	24.66		
			3	2	25.00	24.66	24.67	24.60		
			6	0	24.00	23.77	23.73	23.78		
		16QAM	1	0	24.00	23.71	23.73	23.45		
			1	2	24.00	23.76	23.79	23.49		
			1	5	24.00	23.69	23.76	23.40		
			3	0	24.00	23.82	23.86	23.76		
			3	1	24.00	23.87	23.92	23.81		
			3	2	24.00	23.80	23.86	23.77		
			6	0	23.00	22.94	22.88	22.92		
			LTE Band 26a	3MHz	QPSK	1	0	25.00	24.53	24.50
		1				7	25.00	24.64	24.57	24.52
		1				14	25.00	24.53	24.52	24.44
8	0	24.00				23.67	23.71	23.65		
8	4	24.00				23.77	23.74	23.72		
8	7	24.00				23.77	23.72	23.64		
15	0	24.00				23.72	23.69	23.69		
16QAM	1	0			24.00	23.63	23.36	23.84		
	1	7			24.00	23.75	23.40	23.87		
	1	14			24.00	23.66	23.30	23.78		
	8	0			23.00	22.67	22.64	22.67		
	8	4			23.00	22.76	22.70	22.72		
	8	7			23.00	22.70	22.66	22.63		
	15	0			23.00	22.69	22.71	22.68		
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)				
			RB Size	RB Offset		26715/816.5	26740/819	26765/821.5		
LTE Band 26a	5MHz	QPSK	1	0	25.00	24.73	24.73	24.68		
			1	12	25.00	24.81	24.76	24.79		
			1	24	25.00	24.68	24.75	24.67		
			12	0	24.00	23.72	23.75	23.68		
			12	6	24.00	23.83	23.78	23.80		
			12	11	24.00	23.79	23.82	23.72		
			25	0	24.00	23.77	23.76	23.73		

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		N/A	26740/819	N/A
16QAM			1	0	24.50	24.15	24.04	23.96
			1	12	24.50	24.27	24.08	24.05
			1	24	24.50	24.15	24.01	23.93
			12	0	23.00	22.73	22.69	22.73
			12	6	23.00	22.83	22.75	22.81
			12	11	23.00	22.80	22.73	22.73
			25	0	23.00	22.77	22.82	22.69
LTE Band 26a	10MHz	QPSK	1	0	25.00	N/A	24.85	N/A
			1	24	25.00	N/A	24.84	N/A
			1	49	25.00	N/A	24.87	N/A
			25	0	24.00	N/A	23.70	N/A
			25	12	24.00	N/A	23.79	N/A
			25	24	24.00	N/A	23.76	N/A
			50	0	24.00	N/A	23.75	N/A
		16QAM	1	0	24.00	N/A	23.91	N/A
			1	24	24.00	N/A	23.95	N/A
			1	49	24.00	N/A	23.92	N/A
			25	0	23.00	N/A	22.73	N/A
			25	12	23.00	N/A	22.80	N/A
			25	24	23.00	N/A	22.78	N/A
			50	0	23.00	N/A	22.76	N/A

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26797/824.7	26915/836.5	27033/848.3
LTE Band 26b	1.4MHz	QPSK	1	0	25.00	24.60	24.40	24.54
			1	2	25.00	24.67	24.45	24.59
			1	5	25.00	24.66	24.38	24.57
			3	0	25.00	24.61	24.51	24.59
			3	1	25.00	24.65	24.53	24.63
			3	2	25.00	24.62	24.49	24.59
			6	0	24.00	23.76	23.58	23.71
		16QAM	1	0	24.00	23.65	23.60	23.31
			1	2	24.00	23.70	23.65	23.42
			1	5	24.00	23.64	23.59	23.41

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26805/825.5	26915/836.5	27025/847.5
			3	0	24.00	23.75	23.74	23.69
			3	1	24.00	23.80	23.77	23.78
			3	2	24.00	23.74	23.74	23.74
			6	0	23.00	22.90	22.77	22.92
LTE Band 26b	3MHz	QPSK	1	0	25.00	24.50	24.31	24.34
			1	7	25.00	24.55	24.35	24.47
			1	14	25.00	24.46	24.33	24.48
			8	0	24.00	23.63	23.54	23.59
			8	4	24.00	23.69	23.57	23.68
			8	7	24.00	23.66	23.55	23.61
			15	0	24.00	23.65	23.53	23.61
		16QAM	1	0	24.00	23.30	23.73	23.51
			1	7	24.00	23.30	23.76	23.66
			1	14	24.00	23.22	23.71	23.62
			8	0	23.00	22.55	22.55	22.60
			8	4	23.00	22.66	22.60	22.68
			8	7	23.00	22.57	22.55	22.61
			15	0	23.00	22.64	22.58	22.62
			RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26815/826.5	26915/836.5	27015/846.5
LTE Band 26b	5MHz	QPSK	1	0	25.00	24.73	24.52	24.58
			1	12	25.00	24.73	24.61	24.70
			1	24	25.00	24.70	24.55	24.71
			12	0	24.00	23.67	23.60	23.68
			12	6	24.00	23.71	23.65	23.67
			12	11	24.00	23.64	23.63	23.71
			25	0	24.00	23.66	23.66	23.68
		16QAM	1	0	24.50	23.95	23.84	23.96
			1	12	24.50	23.93	23.90	24.12
			1	24	24.50	23.89	23.83	24.15
			12	0	23.00	22.60	22.61	22.64
			12	6	23.00	22.61	22.70	22.72
			12	11	23.00	22.53	22.63	22.71
			25	0	23.00	22.66	22.63	22.69



Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26840/829	26915/836.5	26990/844
LTE Band 26b	10MHz	QPSK	1	0	25.00	24.76	24.63	24.60
			1	24	25.00	24.79	24.66	24.74
			1	49	25.00	24.64	24.66	24.79
			25	0	24.00	23.67	23.61	23.70
			25	12	24.00	23.70	23.69	23.71
			25	24	24.00	23.66	23.64	23.65
			50	0	24.00	23.66	23.65	23.69
		16QAM	1	0	24.50	24.05	23.74	23.48
			1	24	24.50	24.03	23.84	23.50
			1	49	24.50	24.03	23.79	23.61
			25	0	23.00	22.72	22.63	22.69
			25	12	23.00	22.72	22.72	22.66
			25	24	23.00	22.64	22.62	22.66
			50	0	23.00	22.64	22.66	22.67

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26865/831.5	26915/836.5	26965/841.5
LTE Band 26b	15MHz	QPSK	1	0	25.00	24.59	24.58	24.46
			1	37	25.00	24.66	24.65	24.60
			1	74	25.00	24.57	24.62	24.64
			36	0	24.00	23.76	23.64	23.65
			36	18	24.00	23.78	23.70	23.69
			36	37	24.00	23.72	23.62	23.72
			75	0	24.00	23.76	23.75	23.68
		16QAM	1	0	24.50	23.97	23.72	23.65
			1	37	24.50	24.04	23.82	23.71
			1	74	24.50	24.01	23.71	23.75
			36	0	23.00	22.73	22.67	22.57
			36	18	23.00	22.76	22.75	22.62
			36	37	23.00	22.69	22.65	22.64
			75	0	23.00	22.72	22.68	22.66

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB	RB		131979/1710.7	132322/1745	132665/177

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		131987/1711.5	132322/1745	132657/1778.5
LTE Band 66	1.4MHz	QPSK	1	0	24.50	23.24	24.02	24.07
			1	2	24.50	24.19	24.07	24.13
			1	5	24.50	24.09	24.02	24.04
			3	0	24.50	24.12	24.06	24.11
			3	1	24.50	24.13	24.11	24.18
			3	2	24.50	24.08	24.03	24.14
		16QAM	6	0	23.50	23.19	23.15	23.17
			1	0	23.50	23.19	22.83	23.14
			1	2	23.50	23.24	22.93	23.22
			1	5	23.50	23.21	22.88	23.17
			3	0	23.50	23.31	23.18	23.25
			3	1	23.50	23.37	23.22	23.31
			3	2	23.50	23.33	23.20	23.26
			6	0	22.50	22.35	22.31	22.35
LTE Band 66	3MHz	QPSK	1	0	24.50	23.92	23.83	23.83
			1	7	24.50	24.04	23.90	23.95
			1	14	24.50	24.03	23.83	23.93
			8	0	23.50	23.08	23.05	23.06
			8	4	23.50	23.17	23.09	23.13
			8	7	23.50	23.16	23.06	23.09
			15	0	23.50	23.14	23.05	23.11
		16QAM	1	0	23.50	22.77	23.24	23.07
			1	7	23.50	22.84	23.30	23.14
			1	14	23.50	22.80	23.22	23.08
			8	0	22.50	22.07	22.06	22.06
			8	4	22.50	22.13	22.12	22.16
			8	7	22.50	22.12	22.06	22.07
			15	0	22.50	22.19	22.07	22.07
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		131997/1712.5	132322/1745	132647/1777.5
LTE Band 66	5MHz	QPSK	1	0	24.50	24.10	24.05	24.07
			1	12	24.50	24.25	24.15	24.17
			1	24	24.50	24.18	24.13	24.11

			12	0	23.50	23.13	23.11	23.18		
			12	6	23.50	23.22	23.16	23.18		
			12	11	23.50	23.21	23.16	23.15		
			25	0	23.50	23.18	23.12	23.17		
		16QAM	1	0	24.00	23.55	23.38	23.34		
			1	12	24.00	23.70	23.45	23.46		
			1	24	24.00	23.64	23.40	23.38		
			12	0	22.50	22.11	22.07	22.14		
			12	6	22.50	22.20	22.08	22.20		
			12	11	22.50	22.23	22.07	22.17		
			25	0	22.50	22.14	22.13	22.11		
		Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
					RB Size	RB Offset		132022/1715	132322/1745	132622/1775
LTE Band 66	10MHz	QPSK	1	0	24.50	24.21	24.09	24.19		
			1	24	24.50	24.32	24.18	24.23		
			1	49	24.50	24.27	24.20	24.22		
			25	0	23.50	23.07	23.01	23.18		
			25	12	23.50	23.25	23.15	23.20		
			25	24	23.50	23.23	23.18	23.12		
			50	0	23.50	23.15	23.10	23.16		
		16QAM	1	0	24.00	23.54	23.24	23.02		
			1	24	24.00	23.63	23.34	23.12		
			1	49	24.00	23.61	23.32	23.12		
			25	0	22.50	22.14	21.99	22.16		
			25	12	22.50	22.27	22.17	22.23		
			25	24	22.50	22.28	22.16	22.13		
			50	0	22.50	22.17	22.13	22.12		
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)				
			RB Size	RB Offset		132047/1717.5	132322/1745	132597/1772.5		
LTE Band 66	15MHz	QPSK	1	0	24.50	24.17	23.98	24.12		
			1	37	24.50	24.32	24.15	24.18		
			1	74	24.50	24.17	24.13	24.15		
			36	0	23.50	23.19	23.07	23.16		
			36	18	23.50	23.24	23.17	23.21		
			36	37	23.50	23.21	23.21	23.14		
			75	0	23.50	23.21	23.19	23.21		

Band	Band Width	Modulation	RB Configuration		Tune-up p (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		132072/1720	132322/1745	132572/1770
		16QAM	1	0	24.00	23.26	23.09	23.45
			1	37	24.00	23.40	23.26	23.52
			1	74	24.00	23.32	23.30	23.55
			36	0	22.50	22.17	22.00	22.19
			36	18	22.50	22.29	22.15	22.23
			36	37	22.50	22.25	22.18	22.16
			75	0	22.50	22.18	22.18	22.19
LTE Band 66	20MHz	QPSK	1	0	24.50	23.98	23.92	24.08
			1	49	24.50	24.24	24.25	24.28
			1	99	24.50	24.05	24.16	24.15
			50	0	23.50	23.09	23.01	23.15
			50	24	23.50	23.23	23.20	23.24
			50	49	23.50	23.12	23.23	23.14
			100	0	23.50	23.13	23.14	23.12
		16QAM	1	0	24.00	23.26	23.13	23.22
			1	49	24.00	23.52	23.43	23.46
			1	99	24.00	23.41	23.37	23.37
			50	0	22.50	22.14	21.95	22.17
			50	24	22.50	22.29	22.17	22.25
			50	49	22.50	22.19	22.20	22.14
			100	0	22.50	22.11	22.08	22.12

**7.4. WLAN & Bluetooth Output Power**

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11b	1	2412	16.50	15.89
	6	2437	16.50	15.81
	11	2462	16.50	16.45
802.11g	1	2412	13.50	12.97
	6	2437	13.50	12.88
	11	2462	13.50	13.42
802.11n HT20	1	2412	12.50	11.90
	6	2437	12.50	11.93
	11	2462	12.50	12.35
802.11n HT40	3	2422	11.50	10.65
	6	2437	11.50	11.25
	9	2452	11.50	11.47

NOTE: Power measurement results of WLAN 2.4G.

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11a	36	5180	8.50	8.01
	40	5200	8.50	7.69
	48	5240	8.50	8.00
802.11n HT20	36	5180	8.00	7.77
	40	5200	8.00	7.54
	48	5240	8.00	7.37
802.11n HT40	38	5190	8.50	7.66
	46	5230	8.50	8.01
802.11ac VHT20	36	5180	8.50	7.86
	40	5200	8.50	8.05
	48	5240	8.50	7.81
802.11ac VHT40	38	5190	8.50	8.19
	46	5230	8.50	7.93
802.11ac VHT80	42	5210	8.00	7.83

NOTE: Power measurement results of WLAN 5.2G.

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
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802.11a	149	5745	10.00	9.53
	157	5785	9.00	8.81
	165	5825	8.00	7.92
802.11n HT20	149	5745	10.00	9.53
	157	5785	9.00	8.76
	165	5825	8.00	7.82
802.11n HT40	151	5755	10.00	9.96
	159	5795	10.00	9.11
802.11ac VHT20	149	5745	9.50	9.49
	157	5785	9.50	8.76
	165	5825	9.50	8.85
802.11ac VHT40	151	5755	10.00	9.93
	159	5795	10.00	9.09
802.11ac VHT80	155	5775	9.00	8.54

NOTE: Power measurement results of WLAN 5.8G.

BR+EDR	Output Power (dBm)				
	Channel	Tune-up (dBm)	Data Rates		
			1M	2M	3M
	0CH	2.00	1.69	0.39	0.34
	39CH	3.00	2.60	1.69	1.66
	78CH	3.00	2.41	1.18	1.17

BLE	Channel	Tune-up (dBm)	Output Power (dBm)	
			1M	2M
		0CH	-5.00/-4.00	-5.60
	19CH	-4.00/-6.00	-4.44	-6.10
	39CH	-4.00/-5.00	-4.90	-5.68

NOTE: Power measurement results of Bluetooth.

### 7.5. NFC

NFC power is too low, so SAR is not tested.



Bluetooth	3.00	2.00	5	2.480	0.6	3	Yes
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NOTE: Standalone SAR test exclusion for Bluetooth.

When standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] * [\sqrt{f_{\text{GHz}}/x}] \text{ W/kg}$  for test separation distances  $\leq 50\text{mm}$ , where  $x = 7.5$  for 1-g SAR and  $x = 18.75$  for 10-g SAR.

When the minimum test separation distance is  $< 5 \text{ mm}$ , a distance of  $5 \text{ mm}$  is applied to determine SAR test exclusion.

Mode	Position	$P_{\text{max}}$ (dBm)	$P_{\text{max}}$ (mW)	Distance (mm)	f (GHz)	x	Estimated SAR (W/Kg)
Bluetooth	Head	3.00	2.00	5	2.48	7.5	0.084
Bluetooth	Body	3.00	2.00	10	2.48	7.5	0.042
Bluetooth	Hotspot	3.00	2.00	10	2.48	7.5	0.042

NOTE: Estimated SAR calculation for Bluetooth

## 10. SAR Results

### 10.1. SAR measurement Result

#### 10.1.1. SAR measurement Result of GSM850

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Left Cheek	189/836.4	GPRS(GMSK 2TS)	0.196	0.148	2.28	32.50	33.00	0.220	2023/11/24	1#
Left Tilt 15 Degree	189/836.4	GPRS(GMSK 2TS)	0.105	0.078	-0.74	32.50	33.00	0.118	2023/11/24	
Right Cheek	189/836.4	GPRS(GMSK 2TS)	0.177	0.132	3.45	32.50	33.00	0.199	2023/11/24	
Right Tilt 15 Degree	189/836.4	GPRS(GMSK 2TS)	0.093	0.070	-3.53	32.50	33.00	0.104	2023/11/24	

NOTE: Head SAR test results of GSM850.

Test	Test	Test Mode	SAR Value	Power	Conducted	Tune-up	Scaled	Date	Plot
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Position of Body-Worn with 10mm	channel /Freq.		(W/kg)		Drift (±5%)	power (dBm)	power (dBm)	SAR 1g (W/Kg)		
			1g	10g						
Front Side	189/836.4	GPRS(GMSK 2TS)	0.144	0.102	1.08	32.50	33.00	0.162	2023/11/24	
Back Side	189/836.4	GPRS(GMSK 2TS)	0.194	0.144	-1.96	32.50	33.00	0.218	2023/11/24	2#

NOTE: Body-Worn SAR test results of GSM850

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	189/836.4	GPRS(GMSK 2TS)	0.144	0.102	1.08	32.50	33.00	0.162	2023/11/24	
Back Side	189/836.4	GPRS(GMSK 2TS)	0.194	0.144	-1.96	32.50	33.00	0.218	2023/11/24	2#
Left Side	189/836.4	GPRS(GMSK 2TS)	0.066	0.048	-1.19	32.50	33.00	0.074	2023/11/24	
Right Side	189/836.4	GPRS(GMSK 2TS)	0.069	0.050	3.21	32.50	33.00	0.077	2023/11/24	
Bottom Side	189/836.4	GPRS(GMSK 2TS)	0.115	0.085	1.49	32.50	33.00	0.129	2023/11/24	

NOTE: Hotspot SAR test results of GSM850

**10.1.2. SAR measurement Result of GSM1900**

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Left Cheek	661/1880	GPRS(GMSK 2TS)	0.495	0.302	-0.81	29.91	30.00	0.505	2023/11/23	3#
Left Tilt 15 Degree	661/1880	GPRS(GMSK 2TS)	0.262	0.155	-3.29	29.91	30.00	0.267	2023/11/23	
Right Cheek	661/1880	GPRS(GMSK 2TS)	0.452	0.270	-0.05	29.91	30.00	0.461	2023/11/23	
Right Tilt 15 Degree	661/1880	GPRS(GMSK 2TS)	0.211	0.127	2.87	29.91	30.00	0.215	2023/11/23	

NOTE: Head SAR test results of GSM1900

Test Position of	Test channel	Test Mode	SAR Value (W/kg)	Power Drift	Conducted power	Tune-up power	Scaled SAR	Date	Plot
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Body-Worn with 10mm	/Freq.		1g	10g	(±5%)	(dBm)	(dBm)	1g (W/Kg)		
Front Side	661/1880	GPRS(GMSK 2TS)	0.270	0.138	0.48	29.91	30.00	0.276	2023/11/23	
Back Side	661/1880	GPRS(GMSK 2TS)	0.419	0.219	-2.41	29.91	30.00	0.428	2023/11/23	4#

NOTE: Body-Worn SAR test results of GSM1900

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	661/1880	GPRS(GMSK 2TS)	0.270	0.138	0.48	29.91	30.00	0.276	2023/11/23	
Back Side	661/1880	GPRS(GMSK 2TS)	0.419	0.219	-2.41	29.91	30.00	0.428	2023/11/23	4#
Left Side	661/1880	GPRS(GMSK 2TS)	0.129	0.065	1.49	29.91	30.00	0.132	2023/11/23	
Right Side	661/1880	GPRS(GMSK 2TS)	0.138	0.071	-3.41	29.91	30.00	0.141	2023/11/23	
Bottom Side	661/1880	GPRS(GMSK 2TS)	0.230	0.114	0.56	29.91	30.00	0.235	2023/11/23	

NOTE: Hotspot SAR test results of GSM1900

### 10.1.3. SAR measurement Result of WCDMA Band 2

Test Position of Head	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Left Cheek	9400/1880	RMC12.2K	0.865	0.525	-1.16	24.53	25.00	0.964	2023/11/23	
Left Tilt 15 Degree	9400/1880	RMC12.2K	0.458	0.275	-2.87	24.53	25.00	0.510	2023/11/23	
Right Cheek	9400/1880	RMC12.2K	0.816	0.485	-2.32	24.53	25.00	0.909	2023/11/23	
Right Tilt 15	9400/1880	RMC12.2K	0.382	0.220	-3.15	24.53	25.00	0.426	2023/11/23	

Degree											
Left Cheek	9262/1852.4	RMC12.2K	0.886	0.547	-0.24	24.44	25.00	1.008	2023/11/23	5#	
Left Cheek	9538/1907.6	RMC12.2K	0.825	0.494	-0.23	24.63	25.00	0.898	2023/11/23		
Left Cheek Repeated	9262/1852.4	RMC12.2K	0.881	0.540	2.10	24.44	25.00	1.002	2023/11/23		

NOTE: Head SAR test results of WCDMA Band 2

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	9400/1880	RMC12.2K	0.486	0.255	-0.14	24.53	25.00	0.542	2023/11/23	
Back Side	9400/1880	RMC12.2K	0.795	0.421	-0.16	24.53	25.00	0.886	2023/11/23	
Back Side	9262/1852.4	RMC12.2K	0.824	0.437	-0.50	24.44	25.00	0.937	2023/11/23	6#
Back Side	9538/1907.6	RMC12.2K	0.749	0.394	-0.21	24.63	25.00	0.816	2023/11/23	
BackSide Repeated	9262/1852.4	RMC12.2K	0.820	0.435	1.23	24.44	25.00	0.933	2023/11/23	

NOTE: Body-Worn SAR test results of WCDMA Band 2

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	9400/1880	RMC12.2K	0.486	0.255	-0.14	24.53	25.00	0.542	2023/11/23	
Back Side	9400/1880	RMC12.2K	0.795	0.421	-0.16	24.53	25.00	0.886	2023/11/23	
Left Side	9400/1880	RMC12.2K	0.243	0.126	-0.38	24.53	25.00	0.271	2023/11/23	
Right Side	9400/1880	RMC12.2K	0.243	0.122	-3.74	24.53	25.00	0.271	2023/11/23	
Bottom Side	9400/1880	RMC12.2K	0.400	0.210	-2.00	24.53	25.00	0.446	2023/11/23	
Back Side	9262/1852.4	RMC12.2K	0.824	0.437	-0.50	24.44	25.00	0.937	2023/11/23	6#
Back Side	9538/1907.6	RMC12.2K	0.749	0.394	-0.21	24.63	25.00	0.816	2023/11/23	
BackSide Repeated	9262/1852.4	RMC12.2K	0.820	0.435	1.23	24.44	25.00	0.933	2023/11/23	

NOTE: Hotspot SAR test results of WCDMA Band 2

**10.1.4. SAR measurement Result of WCDMA Band 4**

Test Position of Head	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Left Cheek	1413/1732.6	RMC12.2K	0.970	0.621	-0.59	24.26	24.50	1.025	2023/11/18	
Left Tilt 15 Degree	1413/1732.6	RMC12.2K	0.580	0.359	-2.58	24.26	24.50	0.613	2023/11/18	
Right Cheek	1413/1732.6	RMC12.2K	0.900	0.563	1.46	24.26	24.50	0.951	2023/11/18	
Right Tilt 15 Degree	1413/1732.6	RMC12.2K	0.480	0.306	-1.02	24.26	24.50	0.507	2023/11/18	
Left Cheek	1312/1712.4	RMC12.2K	0.937	0.602	-0.33	24.37	24.50	0.965	2023/11/18	
Left Cheek	1513/1752.6	RMC12.2K	1.004	0.638	-0.15	24.40	24.50	1.027	2023/11/18	7#
Left Cheek Repeated	1513/1752.6	RMC12.2K	1.001	0.630	2.54	24.40	24.50	1.024	2023/11/18	

NOTE: Head SAR test results of WCDMA Band 4

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift ( $\pm 5\%$ )	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	1413/1732.6	RMC12.2K	0.426	0.227	2.79	24.26	24.50	0.450	2023/11/18	
Back Side	1413/1732.6	RMC12.2K	0.682	0.374	-0.62	24.26	24.50	0.721	2023/11/18	8#

NOTE: Body-Worn SAR test results of WCDMA Band 4

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	1413/1732.6	RMC12.2K	0.426	0.227	2.79	24.26	24.50	0.450	2023/11/18	
Back Side	1413/1732.6	RMC12.2K	0.682	0.374	-0.62	24.26	24.50	0.721	2023/11/18	8#
Left Side	1413/1732.6	RMC12.2K	0.207	0.110	-2.17	24.26	24.50	0.219	2023/11/18	
Right Side	1413/1732.6	RMC12.2K	0.205	0.109	3.26	24.26	24.50	0.217	2023/11/18	
Bottom	1413/1732.6	RMC12.2K	0.345	0.189	2.92	24.26	24.50	0.365	2023/11/18	

Side										
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NOTE: Hotspot SAR test results of WCDMA Band 4

### 10.1.5. SAR measurement Result of WCDMA Band 5

Test Position of Head	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Left Cheek	4182/836.4	RMC12.2K	0.185	0.134	-1.98	24.10	24.50	0.203	2023/11/24	9#
Left Tilt 15 Degree	4182/836.4	RMC12.2K	0.109	0.075	-0.58	24.10	24.50	0.120	2023/11/24	
Right Cheek	4182/836.4	RMC12.2K	0.165	0.115	1.33	24.10	24.50	0.181	2023/11/24	
Right Tilt 15 Degree	4182/836.4	RMC12.2K	0.074	0.051	2.36	24.10	24.50	0.081	2023/11/24	

NOTE: Head SAR test results of WCDMA Band 5

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	4182/836.4	RMC12.2K	0.096	0.072	-1.62	24.10	24.50	0.105	2023/11/24	
Back Side	4182/836.4	RMC12.2K	0.156	0.119	4.26	24.10	24.50	0.171	2023/11/24	10#

NOTE: Body-Worn SAR test results of WCDMA Band 5

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	4182/836.4	RMC12.2K	0.096	0.072	-1.62	24.10	24.50	0.105	2023/11/24	
Back Side	4182/836.4	RMC12.2K	0.156	0.119	4.26	24.10	24.50	0.171	2023/11/24	10#
Left Side	4182/836.4	RMC12.2K	0.051	0.037	2.06	24.10	24.50	0.056	2023/11/24	
Right Side	4182/836.4	RMC12.2K	0.054	0.040	-1.52	24.10	24.50	0.059	2023/11/24	

Bottom Side	4182/836.4	RMC12.2K	0.080	0.059	3.10	24.10	24.50	0.088	2023/11/24	
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NOTE: Hotspot SAR test results of WCDMA Band 5

### 10.1.6. SAR measurement Result of LTE Band 2

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	18900/1880	20M QPSK(1,49)	0.753	0.454	-0.11	24.58	25.00	0.829	2023/11/23	
Left Tilt 15 Degree	18900/1880	20M QPSK(1,49)	0.390	0.228	-3.07	24.58	25.00	0.430	2023/11/23	
Right Cheek	18900/1880	20M QPSK(1,49)	0.710	0.424	3.28	24.58	25.00	0.782	2023/11/23	
Right Tilt 15 Degree	18900/1880	20M QPSK(1,49)	0.353	0.206	3.85	24.58	25.00	0.389	2023/11/23	
Left Cheek	18700/1860	20M QPSK(1,49)	0.767	0.470	-0.63	24.58	25.00	0.845	2023/11/23	
Left Cheek	19100/1900	20M QPSK(1,49)	0.796	0.482	-0.89	24.63	25.00	0.867	2023/11/23	17#
Left Cheek Repeated	19100/1900	20M QPSK(1,49)	0.784	0.476	0.21	24.63	25.00	0.854	2023/11/23	
50%RB										
Left Cheek	18900/1880	20M QPSK(50,24)	0.446	0.250	-0.50	23.55	24.00	0.495	2023/11/23	
Left Tilt 15 Degree	18900/1880	20M QPSK(50,24)	0.225	0.121	4.01	23.55	24.00	0.250	2023/11/23	
Right Cheek	18900/1880	20M QPSK(50,24)	0.357	0.218	-1.61	23.55	24.00	0.396	2023/11/23	
Right Tilt 15 Degree	18900/1880	20M QPSK(50,24)	0.185	0.116	-4.38	23.55	24.00	0.205	2023/11/23	

100%RB										
Left Cheek	18900/1880	20M QPSK(100,0)	0.345	0.189	3.26	23.47	23.50	0.347	2023/11/23	

NOTE: Head SAR test results of LTE Band 2

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
1RB										
Front Side	18900/1880	20M QPSK(1,49)	0.480	0.246	-1.87	24.58	25.00	0.529	2023/11/23	
Back Side	18900/1880	20M QPSK(1,49)	0.781	0.412	-0.61	24.58	25.00	0.860	2023/11/23	18#
Back Side	18700/1860	20M QPSK(1,49)	0.777	0.411	-0.51	24.58	25.00	0.856	2023/11/23	
Back Side	19100/1900	20M QPSK(1,49)	0.747	0.394	-0.05	24.63	25.00	0.813	2023/11/23	
BackSide Repeated	18900/1880	20M QPSK(1,49)	0.775	0.408	2.30	24.58	25.00	0.854	2023/11/23	
50%RB										
Front Side	18900/1880	20M QPSK(50,24)	0.270	0.136	-3.75	23.55	24.00	0.299	2023/11/23	
Back Side	18900/1880	20M QPSK(50,24)	0.461	0.245	2.18	23.55	24.00	0.511	2023/11/23	

NOTE: Body-Worn SAR test results of LTE Band 2

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	18900/1880	20M QPSK(1,49)	0.480	0.246	-1.87	24.58	25.00	0.529	2023/11/23	
Back Side	18900/1880	20M QPSK(1,49)	0.781	0.412	-0.61	24.58	25.00	0.860	2023/11/23	18#
Left Side	18900/1880	20M QPSK(1,49)	0.246	0.127	1.25	24.58	25.00	0.271	2023/11/23	
Right Side	18900/1880	20M QPSK(1,49)	0.243	0.123	1.50	24.58	25.00	0.268	2023/11/23	
Bottom Side	18900/1880	20M QPSK(1,49)	0.400	0.203	2.62	24.58	25.00	0.441	2023/11/23	
Back Side	18700/1860	20M QPSK(1,49)	0.777	0.411	-0.51	24.58	25.00	0.856	2023/11/23	

Back Side	19100/1900	20M QPSK(1,49)	0.747	0.394	-0.05	24.63	25.00	0.813	2023/11/23	
BackSide Repeated	18900/1880	20M QPSK(1,49)	0.775	0.408	2.30	24.58	25.00	0.854	2023/11/23	
50%RB										
Front Side	18900/1880	20M QPSK(50,24)	0.270	0.136	-3.75	23.55	24.00	0.299	2023/11/23	
Back Side	18900/1880	20M QPSK(50,24)	0.461	0.245	2.18	23.55	24.00	0.511	2023/11/23	
Left Side	18900/1880	20M QPSK(50,24)	0.134	0.064	3.68	23.55	24.00	0.149	2023/11/23	
Right Side	18900/1880	20M QPSK(50,24)	0.124	0.060	4.85	23.55	24.00	0.138	2023/11/23	
Bottom Side	18900/1880	20M QPSK(50,24)	0.222	0.119	-0.42	23.55	24.00	0.246	2023/11/23	
100%RB										
Back Side	18900/1880	20M QPSK(100,0)	0.265	0.178	2.10	23.47	23.50	0.267	2023/11/23	

NOTE: Hotspot SAR test results of LTE Band 2

#### 10.1.7. SAR measurement Result of LTE Band 4

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	20175/1732.5	20M QPSK(1,49)	0.953	0.608	-0.91	24.53	25.00	1.062	2023/11/18	
Left Tilt 15 Degree	20175/1732.5	20M QPSK(1,49)	0.523	0.317	1.20	24.53	25.00	0.583	2023/11/18	
Right Cheek	20175/1732.5	20M QPSK(1,49)	0.828	0.502	0.20	24.53	25.00	0.923	2023/11/18	
Right Tilt 15 Degree	20175/1732.5	20M QPSK(1,49)	0.426	0.264	3.62	24.53	25.00	0.475	2023/11/18	
Left Cheek	20050/1720	20M QPSK(1,49)	0.932	0.598	-1.36	24.61	25.00	1.020	2023/11/18	
Left Cheek	20300/1745	20M QPSK(1,49)	0.971	0.617	-0.72	24.59	25.00	1.067	2023/11/18	19#
Left Cheek Repeated	20300/1745	20M QPSK(1,49)	0.966	0.612	2.30	24.59	25.00	1.062	2023/11/18	
50%RB										



Left Cheek	20175/1732.5	20M QPSK(50,24)	0.535	0.312	-2.83	23.50	24.00	0.600	2023/11/18	
Left Tilt 15 Degree	20175/1732.5	20M QPSK(50,24)	0.298	0.179	-2.74	23.50	24.00	0.334	2023/11/18	
Right Cheek	20175/1732.5	20M QPSK(50,24)	0.476	0.286	-2.14	23.50	24.00	0.534	2023/11/18	
Right Tilt 15 Degree	20175/1732.5	20M QPSK(50,24)	0.253	0.141	0.15	23.50	24.00	0.284	2023/11/18	
100%RB										
Left Cheek	20175/1732.5	20M QPSK(100,0)	0.402	0.206	1.25	23.48	24.00	0.453	2023/11/18	

NOTE: Head SAR test results of LTE Band 4

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
1RB										
Front Side	20175/1732.5	20M QPSK(1,49)	0.396	0.208	1.41	24.53	25.00	0.441	2023/11/18	
Back Side	20175/1732.5	20M QPSK(1,49)	0.650	0.359	-0.75	24.53	25.00	0.724	2023/11/18	20#
50%RB										
Front Side	20175/1732.5	20M QPSK(50,24)	0.211	0.121	-0.81	23.50	24.00	0.237	2023/11/18	
Back Side	20175/1732.5	20M QPSK(50,24)	0.382	0.187	-3.66	23.50	24.00	0.429	2023/11/18	

NOTE: Body-Worn SAR test results of LTE Band 4

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front	20175/1732.5	20M QPSK(1,49)	0.396	0.208	1.41	24.53	25.00	0.441	2023/11/18	

Side										
Back Side	20175/1732.5	20M QPSK(1,49)	0.650	0.359	-0.75	24.53	25.00	0.724	2023/11/18	20#
Left Side	20175/1732.5	20M QPSK(1,49)	0.198	0.105	3.94	24.53	25.00	0.221	2023/11/18	
Right Side	20175/1732.5	20M QPSK(1,49)	0.210	0.114	1.83	24.53	25.00	0.234	2023/11/18	
Bottom Side	20175/1732.5	20M QPSK(1,49)	0.325	0.172	-2.25	24.53	25.00	0.362	2023/11/18	
50%RB										
Front Side	20175/1732.5	20M QPSK(50,24)	0.211	0.121	-0.81	23.50	24.00	0.237	2023/11/18	
Back Side	20175/1732.5	20M QPSK(50,24)	0.382	0.187	-3.66	23.50	24.00	0.429	2023/11/18	
Left Side	20175/1732.5	20M QPSK(50,24)	0.103	0.053	3.69	23.50	24.00	0.116	2023/11/18	
Right Side	20175/1732.5	20M QPSK(50,24)	0.105	0.060	-3.70	23.50	24.00	0.118	2023/11/18	
Bottom Side	20175/1732.5	20M QPSK(50,24)	0.173	0.092	3.22	23.50	24.00	0.194	2023/11/18	

NOTE: Hotspot SAR test results of LTE Band 4

### 10.1.8. SAR measurement Result of LTE Band 5

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	20525/836.5	10M QPSK(1,24)	0.209	0.157	1.44	24.80	25.00	0.219	2023/11/24	21#
Left Tilt 15 Degree	20525/836.5	10M QPSK(1,24)	0.105	0.078	-1.43	24.80	25.00	0.110	2023/11/24	
Right Cheek	20525/836.5	10M QPSK(1,24)	0.178	0.127	-1.44	24.80	25.00	0.186	2023/11/24	
Right Tilt 15 Degree	20525/836.5	10M QPSK(1,24)	0.098	0.070	1.77	24.80	25.00	0.103	2023/11/24	

50%RB										
Left Cheek	20525/836.5	10M QPSK(25,12)	0.116	0.088	3.15	23.76	24.00	0.123	2023/11/24	
Left Tilt 15 Degree	20525/836.5	10M QPSK(25,12)	0.063	0.042	-3.69	23.76	24.00	0.067	2023/11/24	
Right Cheek	20525/836.5	10M QPSK(25,12)	0.100	0.065	-3.14	23.76	24.00	0.106	2023/11/24	
Right Tilt 15 Degree	20525/836.5	10M QPSK(25,12)	0.055	0.041	-2.20	23.76	24.00	0.058	2023/11/24	

NOTE: Head SAR test results of LTE Band 5

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
1RB										
Front Side	20525/836.5	10M QPSK(1,24)	0.120	0.088	1.91	24.80	25.00	0.126	2023/11/24	
Back Side	20525/836.5	10M QPSK(1,24)	0.194	0.146	0.40	24.80	25.00	0.203	2023/11/24	22#
50%RB										
Front Side	20525/836.5	10M QPSK(25,12)	0.063	0.048	-2.10	23.76	24.00	0.067	2023/11/24	
Back Side	20525/836.5	10M QPSK(25,12)	0.111	0.086	4.93	23.76	24.00	0.117	2023/11/24	

NOTE: Body-Worn SAR test results of LTE Band 5

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front	20525/836.5	10M QPSK(1,24)	0.120	0.088	1.91	24.80	25.00	0.126	2023/11/24	

Side										
Back Side	20525/836.5	10M QPSK(1,24)	0.194	0.146	0.40	24.80	25.00	0.203	2023/11/24	22#
Left Side	20525/836.5	10M QPSK(1,24)	0.063	0.047	-3.14	24.80	25.00	0.066	2023/11/24	
Right Side	20525/836.5	10M QPSK(1,24)	0.069	0.049	-3.23	24.80	25.00	0.072	2023/11/24	
Bottom Side	20525/836.5	10M QPSK(1,24)	0.120	0.090	1.09	24.80	25.00	0.126	2023/11/24	
50%RB										
Front Side	20525/836.5	10M QPSK(25,12)	0.063	0.048	-2.10	23.76	24.00	0.067	2023/11/24	
Back Side	20525/836.5	10M QPSK(25,12)	0.111	0.086	4.93	23.76	24.00	0.117	2023/11/24	
Left Side	20525/836.5	10M QPSK(25,12)	0.035	0.025	1.59	23.76	24.00	0.037	2023/11/24	
Right Side	20525/836.5	10M QPSK(25,12)	0.036	0.027	-0.74	23.76	24.00	0.038	2023/11/24	
Bottom Side	20525/836.5	10M QPSK(25,12)	0.060	0.048	-0.69	23.76	24.00	0.063	2023/11/24	

NOTE: Hotspot SAR test results of LTE Band 5

### 10.1.9. SAR measurement Result of LTE Band 7

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	21100/2535	20M QPSK(1,49)	0.597	0.261	-1.13	24.66	25.00	0.646	2023/11/22	23#
Left Tilt 15 Degree	21100/2535	20M QPSK(1,49)	0.303	0.131	1.32	24.66	25.00	0.328	2023/11/22	
Right Cheek	21100/2535	20M QPSK(1,49)	0.526	0.218	-3.15	24.66	25.00	0.569	2023/11/22	
Right Tilt 15 Degree	21100/2535	20M QPSK(1,49)	0.272	0.113	1.54	24.66	25.00	0.294	2023/11/22	

50%RB										
Left Cheek	21100/2535	20M QPSK(50,24)	0.302	0.140	-1.20	23.66	24.00	0.327	2023/11/22	
Left Tilt 15 Degree	21100/2535	20M QPSK(50,24)	0.160	0.072	0.47	23.66	24.00	0.173	2023/11/22	
Right Cheek	21100/2535	20M QPSK(50,24)	0.285	0.129	1.23	23.66	24.00	0.308	2023/11/22	
Right Tilt 15 Degree	21100/2535	20M QPSK(50,24)	0.159	0.060	-1.34	23.66	24.00	0.172	2023/11/22	

NOTE: Head SAR test results of LTE Band 7

Test Position of Body-Worn with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	21100/2535	20M QPSK(1,49)	0.540	0.213	3.55	24.66	25.00	0.584	2023/11/22	
Back Side	21100/2535	20M QPSK(1,49)	0.861	0.358	-4.13	24.66	25.00	0.931	2023/11/22	
Back Side	20850/2510	20M QPSK(1,49)	0.852	0.358	0.73	24.70	25.00	0.913	2023/11/22	
Back Side	21350/2560	20M QPSK(1,49)	0.888	0.379	-1.15	24.71	25.00	0.949	2023/11/22	24#
BackSide Repeated	21350/2560	20M QPSK(1,49)	0.882	0.372	1.23	24.71	25.00	0.943	2023/11/22	
50%RB										
Front Side	21100/2535	20M QPSK(50,24)	0.270	0.108	3.03	23.66	24.00	0.292	2023/11/22	
Back Side	21100/2535	20M QPSK(50,24)	0.434	0.191	-0.19	23.66	24.00	0.469	2023/11/22	

NOTE: Body-Worn SAR test results of LTE Band 7

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	21100/2535	20M QPSK(1,49)	0.540	0.213	3.55	24.66	25.00	0.584	2023/11/22	
Back Side	21100/2535	20M QPSK(1,49)	0.861	0.358	-4.13	24.66	25.00	0.931	2023/11/22	

Left Side	21100/2535	20M QPSK(1,49)	0.261	0.103	0.31	24.66	25.00	0.282	2023/11/22	
Right Side	21100/2535	20M QPSK(1,49)	0.273	0.108	-2.65	24.66	25.00	0.295	2023/11/22	
Bottom Side	21100/2535	20M QPSK(1,49)	0.435	0.172	-2.66	24.66	25.00	0.470	2023/11/22	
Back Side	20850/2510	20M QPSK(1,49)	0.852	0.358	0.73	24.70	25.00	0.913	2023/11/22	
Back Side	21350/2560	20M QPSK(1,49)	0.888	0.379	-1.15	24.71	25.00	0.949	2023/11/22	24#
BackSide Repeated	21350/2560	20M QPSK(1,49)	0.882	0.372	1.23	24.71	25.00	0.943	2023/11/22	
50%RB										
Front Side	21100/2535	20M QPSK(50,24)	0.270	0.108	3.03	23.66	24.00	0.292	2023/11/22	
Back Side	21100/2535	20M QPSK(50,24)	0.434	0.191	-0.19	23.66	24.00	0.469	2023/11/22	
Left Side	21100/2535	20M QPSK(50,24)	0.154	0.060	-1.98	23.66	24.00	0.167	2023/11/22	
Right Side	21100/2535	20M QPSK(50,24)	0.149	0.054	-4.19	23.66	24.00	0.161	2023/11/22	
Bottom Side	21100/2535	20M QPSK(50,24)	0.235	0.100	1.06	23.66	24.00	0.254	2023/11/22	
100%RB										
Back Side	21100/2535	20M QPSK(100,0)	0.312	0.123	2.58	23.57	24.00	0.344	2023/11/22	

NOTE: Hotspot SAR test results of LTE Band 7

#### 10.1.10. SAR measurement Result of LTE Band 12

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	23095/707.5	10M QPSK(1,49)	0.159	0.127	2.31	24.55	25.00	0.176	2023/11/11	25#
Left Tilt 15 Degree	23095/707.5	10M QPSK(1,49)	0.089	0.071	-2.94	24.55	25.00	0.099	2023/11/11	
Right Cheek	23095/707.5	10M QPSK(1,49)	0.140	0.111	-2.29	24.55	25.00	0.155	2023/11/11	
Right	23095/707.5	10M QPSK(1,49)	0.074	0.057	1.55	24.55	25.00	0.082	2023/11/11	

Tilt 15 Degree										
50%RB										
Left Cheek	23095/707.5	10M QPSK(25,24)	0.095	0.066	-0.49	23.38	24.00	0.110	2023/11/11	
Left Tilt 15 Degree	23095/707.5	10M QPSK(25,24)	0.053	0.037	-3.26	23.38	24.00	0.061	2023/11/11	
Right Cheek	23095/707.5	10M QPSK(25,24)	0.073	0.061	2.24	23.38	24.00	0.084	2023/11/11	
Right Tilt 15 Degree	23095/707.5	10M QPSK(25,24)	0.038	0.031	-0.33	23.38	24.00	0.044	2023/11/11	

NOTE: Head SAR test results of LTE Band 12

Test Position of Body-Worn with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	23095/707.5	10M QPSK(1,49)	0.144	0.112	-1.02	24.55	25.00	0.160	2023/11/11	
Back Side	23095/707.5	10M QPSK(1,49)	0.211	0.167	-1.34	24.55	25.00	0.234	2023/11/11	26#
50%RB										
Front Side	23095/707.5	10M QPSK(25,24)	0.075	0.065	3.39	23.38	24.00	0.087	2023/11/11	
Back Side	23095/707.5	10M QPSK(25,24)	0.124	0.097	3.43	23.38	24.00	0.143	2023/11/11	

NOTE: Body-Worn SAR test results of LTE Band 12

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	23095/707.5	10M QPSK(1,49)	0.144	0.112	-1.02	24.55	25.00	0.160	2023/11/11	
Back Side	23095/707.5	10M QPSK(1,49)	0.211	0.167	-1.34	24.55	25.00	0.234	2023/11/11	26#
Left Side	23095/707.5	10M QPSK(1,49)	0.066	0.051	0.13	24.55	25.00	0.073	2023/11/11	

Right Side	23095/707.5	10M QPSK(1,49)	0.069	0.052	-2.49	24.55	25.00	0.077	2023/11/11	
Bottom Side	23095/707.5	10M QPSK(1,49)	0.130	0.101	-0.28	24.55	25.00	0.144	2023/11/11	
50%RB										
Front Side	23095/707.5	10M QPSK(25,24)	0.075	0.065	3.39	23.38	24.00	0.087	2023/11/11	
Back Side	23095/707.5	10M QPSK(25,24)	0.124	0.097	3.43	23.38	24.00	0.143	2023/11/11	
Left Side	23095/707.5	10M QPSK(25,24)	0.034	0.030	3.50	23.38	24.00	0.039	2023/11/11	
Right Side	23095/707.5	10M QPSK(25,24)	0.037	0.026	4.04	23.38	24.00	0.043	2023/11/11	
Bottom Side	23095/707.5	10M QPSK(25,24)	0.074	0.057	0.41	23.38	24.00	0.085	2023/11/11	

NOTE: Hotspot SAR test results of LTE Band 12

**10.1.11. SAR measurement Result of LTE Band 13**

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	23230/782	10M QPSK(1,24)	0.226	0.199	-1.16	24.86	25.00	0.233	2023/11/11	27#
Left Tilt 15 Degree	23230/782	10M QPSK(1,24)	0.119	0.104	2.45	24.86	25.00	0.123	2023/11/11	
Right Cheek	23230/782	10M QPSK(1,24)	0.195	0.163	-2.22	24.86	25.00	0.201	2023/11/11	
Right Tilt 15 Degree	23230/782	10M QPSK(1,24)	0.092	0.081	-3.85	24.86	25.00	0.095	2023/11/11	
50%RB										
Left Cheek	23230/782	10M QPSK(25,12)	0.121	0.104	0.48	23.72	24.00	0.129	2023/11/11	
Left Tilt 15 Degree	23230/782	10M QPSK(25,12)	0.071	0.057	-3.63	23.72	24.00	0.076	2023/11/11	



Right Cheek	23230/782	10M QPSK(25,12)	0.103	0.084	4.92	23.72	24.00	0.110	2023/11/11	
Right Tilt 15 Degree	23230/782	10M QPSK(25,12)	0.049	0.041	1.47	23.72	24.00	0.052	2023/11/11	

NOTE: Head SAR test results of LTE Band 13

Test Position of Body-Worn with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	23230/782	10M QPSK(1,24)	0.162	0.142	1.35	24.86	25.00	0.167	2023/11/11	
Back Side	23230/782	10M QPSK(1,24)	0.253	0.221	-1.71	24.86	25.00	0.261	2023/11/11	28#
50%RB										
Front Side	23230/782	10M QPSK(25,12)	0.082	0.085	-0.46	23.72	24.00	0.087	2023/11/11	
Back Side	23230/782	10M QPSK(25,12)	0.140	0.130	4.97	23.72	24.00	0.149	2023/11/11	

NOTE: Body-Worn SAR test results of LTE Band 13

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	23230/782	10M QPSK(1,24)	0.162	0.142	1.35	24.86	25.00	0.167	2023/11/11	
Back Side	23230/782	10M QPSK(1,24)	0.253	0.221	-1.71	24.86	25.00	0.261	2023/11/11	28#
Left Side	23230/782	10M QPSK(1,24)	0.081	0.067	-3.49	24.86	25.00	0.084	2023/11/11	
Right Side	23230/782	10M QPSK(1,24)	0.090	0.079	-1.03	24.86	25.00	0.093	2023/11/11	
Bottom Side	23230/782	10M QPSK(1,24)	0.135	0.117	-1.94	24.86	25.00	0.139	2023/11/11	
50%RB										
Front Side	23230/782	10M QPSK(25,12)	0.082	0.085	-0.46	23.72	24.00	0.087	2023/11/11	
Back Side	23230/782	10M QPSK(25,12)	0.140	0.130	4.97	23.72	24.00	0.149	2023/11/11	
Left Side	23230/782	10M QPSK(25,12)	0.043	0.040	-4.49	23.72	24.00	0.046	2023/11/11	
Right Side	23230/782	10M QPSK(25,12)	0.047	0.045	2.20	23.72	24.00	0.050	2023/11/11	
Bottom Side	23230/782	10M QPSK(25,12)	0.076	0.066	-3.61	23.72	24.00	0.081	2023/11/11	

NOTE: Hotspot SAR test results of LTE Band 13

**10.1.12. SAR measurement Result of LTE Band 17**

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
<b>1RB</b>										
Left Cheek	23790/710	10M QPSK(1,49)	0.319	0.154	-3.03	24.65	25.00	0.346	2023/11/11	29#
Left Tilt 15 Degree	23790/710	10M QPSK(1,49)	0.188	0.086	3.94	24.65	25.00	0.204	2023/11/11	
Right Cheek	23790/710	10M QPSK(1,49)	0.291	0.136	-2.20	24.65	25.00	0.315	2023/11/11	
Right Tilt 15 Degree	23790/710	10M QPSK(1,49)	0.148	0.070	3.14	24.65	25.00	0.160	2023/11/11	
<b>50%RB</b>										
Left Cheek	23790/710	10M QPSK(25,12)	0.182	0.085	4.17	23.46	24.00	0.206	2023/11/11	
Left Tilt 15 Degree	23790/710	10M QPSK(25,12)	0.105	0.043	2.92	23.46	24.00	0.119	2023/11/11	
Right Cheek	23790/710	10M QPSK(25,12)	0.151	0.077	-1.55	23.46	24.00	0.171	2023/11/11	
Right Tilt 15 Degree	23790/710	10M QPSK(25,12)	0.086	0.037	1.31	23.46	24.00	0.097	2023/11/11	

NOTE: Head SAR test results of LTE Band 17

Test Position of Body-Worn with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
<b>1RB</b>										
Front Side	23790/710	10M QPSK(1,49)	0.180	0.164	1.70	24.65	25.00	0.195	2023/11/11	
Back Side	23790/710	10M QPSK(1,49)	0.287	0.269	-0.87	24.65	25.00	0.311	2023/11/11	30#
<b>50%RB</b>										
Front Side	23790/710	10M QPSK(25,12)	0.104	0.093	-1.87	23.46	24.00	0.118	2023/11/11	
Back Side	23790/710	10M QPSK(25,12)	0.144	0.150	-4.56	23.46	24.00	0.163	2023/11/11	

NOTE: Body-Worn SAR test results of LTE Band 17

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	23790/710	10M QPSK(1,49)	0.180	0.164	1.70	24.65	25.00	0.195	2023/11/11	
Back Side	23790/710	10M QPSK(1,49)	0.287	0.269	-0.87	24.65	25.00	0.311	2023/11/11	30#
Left Side	23790/710	10M QPSK(1,49)	0.090	0.080	3.74	24.65	25.00	0.098	2023/11/11	
Right Side	23790/710	10M QPSK(1,49)	0.087	0.080	0.11	24.65	25.00	0.094	2023/11/11	
Bottom Side	23790/710	10M QPSK(1,49)	0.145	0.130	-0.56	24.65	25.00	0.157	2023/11/11	
50%RB										
Front Side	23790/710	10M QPSK(25,12)	0.104	0.093	-1.87	23.46	24.00	0.118	2023/11/11	
Back Side	23790/710	10M QPSK(25,12)	0.144	0.150	-4.56	23.46	24.00	0.163	2023/11/11	
Left Side	23790/710	10M QPSK(25,12)	0.046	0.046	0.91	23.46	24.00	0.052	2023/11/11	
Right Side	23790/710	10M QPSK(25,12)	0.052	0.047	-3.09	23.46	24.00	0.059	2023/11/11	
Bottom Side	23790/710	10M QPSK(25,12)	0.086	0.074	-0.32	23.46	24.00	0.097	2023/11/11	

NOTE: Hotspot SAR test results of LTE Band 17

**10.1.13. SAR measurement Result of LTE Band 26A**

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left	26740/819	10M QPSK(1,49)	0.225	0.178	1.23	24.87	25.00	0.232	2023/11/24	31#

Cheek										
Left Tilt 15 Degree	26740/819	10M QPSK(1,49)	0.126	0.095	0.93	24.87	25.00	0.130	2023/11/24	
Right Cheek	26740/819	10M QPSK(1,49)	0.199	0.151	2.96	24.87	25.00	0.205	2023/11/24	
Right Tilt 15 Degree	26740/819	10M QPSK(1,49)	0.096	0.072	2.74	24.87	25.00	0.099	2023/11/24	
50%RB										
Left Cheek	26740/819	10M QPSK(25,12)	0.130	0.094	3.05	23.79	24.00	0.136	2023/11/24	
Left Tilt 15 Degree	26740/819	10M QPSK(25,12)	0.072	0.055	0.62	23.79	24.00	0.076	2023/11/24	
Right Cheek	26740/819	10M QPSK(25,12)	0.111	0.088	-4.63	23.79	24.00	0.116	2023/11/24	
Right Tilt 15 Degree	26740/819	10M QPSK(25,12)	0.052	0.037	4.06	23.79	24.00	0.055	2023/11/24	

NOTE: Head SAR test results of LTE Band 26A

Test Position of Body-Worn with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	26740/819	10M QPSK(1,49)	0.186	0.107	-2.36	24.87	25.00	0.192	2023/11/24	
Back Side	26740/819	10M QPSK(1,49)	0.270	0.155	1.12	24.87	25.00	0.278	2023/11/24	32#
50%RB										
Front Side	26740/819	10M QPSK(25,12)	0.108	0.063	1.47	23.79	24.00	0.113	2023/11/24	
Back Side	26740/819	10M QPSK(25,12)	0.153	0.080	0.83	23.79	24.00	0.161	2023/11/24	

NOTE: Body-Worn SAR test results of LTE Band 26A

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						

1RB										
Front Side	26740/819	10M QPSK(1,49)	0.186	0.107	-2.36	24.87	25.00	0.192	2023/11/24	
Back Side	26740/819	10M QPSK(1,49)	0.270	0.155	1.12	24.87	25.00	0.278	2023/11/24	32#
Left Side	26740/819	10M QPSK(1,49)	0.096	0.055	1.39	24.87	25.00	0.099	2023/11/24	
Right Side	26740/819	10M QPSK(1,49)	0.081	0.046	-1.30	24.87	25.00	0.083	2023/11/24	
Bottom Side	26740/819	10M QPSK(1,49)	0.155	0.087	0.98	24.87	25.00	0.160	2023/11/24	
50%RB										
Front Side	26740/819	10M QPSK(25,12)	0.108	0.063	1.47	23.79	24.00	0.113	2023/11/24	
Back Side	26740/819	10M QPSK(25,12)	0.153	0.080	0.83	23.79	24.00	0.161	2023/11/24	
Left Side	26740/819	10M QPSK(25,12)	0.054	0.028	2.22	23.79	24.00	0.057	2023/11/24	
Right Side	26740/819	10M QPSK(25,12)	0.048	0.025	3.15	23.79	24.00	0.050	2023/11/24	
Bottom Side	26740/819	10M QPSK(25,12)	0.087	0.048	-3.32	23.79	24.00	0.091	2023/11/24	

NOTE: Hotspot SAR test results of LTE Band 26A

**10.1.14. SAR measurement Result of LTE Band 26B**

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	26915/836.5	15M QPSK(1,37)	0.302	0.194	3.21	24.65	25.00	0.327	2023/11/24	33#
Left Tilt 15 Degree	26915/836.5	15M QPSK(1,37)	0.178	0.112	1.33	24.65	25.00	0.193	2023/11/24	
Right Cheek	26915/836.5	15M QPSK(1,37)	0.263	0.162	0.78	24.65	25.00	0.285	2023/11/24	
Right Tilt 15	26915/836.5	15M QPSK(1,37)	0.137	0.084	2.91	24.65	25.00	0.148	2023/11/24	

Degree										
50%RB										
Left Cheek	26915/836.5	15M QPSK(36,18)	0.170	0.099	-2.68	23.70	24.00	0.182	2023/11/24	
Left Tilt 15 Degree	26915/836.5	15M QPSK(36,18)	0.092	0.059	0.34	23.70	24.00	0.099	2023/11/24	
Right Cheek	26915/836.5	15M QPSK(36,18)	0.135	0.082	2.59	23.70	24.00	0.145	2023/11/24	
Right Tilt 15 Degree	26915/836.5	15M QPSK(36,18)	0.082	0.044	-3.36	23.70	24.00	0.088	2023/11/24	

NOTE: Head SAR test results of LTE Band 26B

Test Position of Body-Worn with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	26915/836.5	15M QPSK(1,37)	0.174	0.096	-1.07	24.65	25.00	0.189	2023/11/24	
Back Side	26915/836.5	15M QPSK(1,37)	0.251	0.143	0.25	24.65	25.00	0.272	2023/11/24	34#
50%RB										
Front Side	26915/836.5	15M QPSK(36,18)	0.095	0.049	-2.17	23.70	24.00	0.102	2023/11/24	
Back Side	26915/836.5	15M QPSK(36,18)	0.134	0.078	1.57	23.70	24.00	0.144	2023/11/24	

NOTE: Body-Worn SAR test results of LTE Band 26B

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	26915/836.5	15M QPSK(1,37)	0.174	0.096	-1.07	24.65	25.00	0.189	2023/11/24	
Back Side	26915/836.5	15M QPSK(1,37)	0.251	0.143	0.25	24.65	25.00	0.272	2023/11/24	34#
Left Side	26915/836.5	15M QPSK(1,37)	0.078	0.044	2.13	24.65	25.00	0.085	2023/11/24	
Right	26915/836.5	15M QPSK(1,37)	0.087	0.050	3.90	24.65	25.00	0.094	2023/11/24	

Side										
Bottom Side	26915/836.5	15M QPSK(1,37)	0.150	0.085	2.75	24.65	25.00	0.163	2023/11/24	
50%RB										
Front Side	26915/836.5	15M QPSK(36,18)	0.095	0.049	-2.17	23.70	24.00	0.102	2023/11/24	
Back Side	26915/836.5	15M QPSK(36,18)	0.134	0.078	1.57	23.70	24.00	0.144	2023/11/24	
Left Side	26915/836.5	15M QPSK(36,18)	0.044	0.026	5.00	23.70	24.00	0.047	2023/11/24	
Right Side	26915/836.5	15M QPSK(36,18)	0.045	0.029	-0.30	23.70	24.00	0.048	2023/11/24	
Bottom Side	26915/836.5	15M QPSK(36,18)	0.077	0.050	-4.40	23.70	24.00	0.083	2023/11/24	

NOTE: Hotspot SAR test results of LTE Band 26B

**10.1.15. SAR measurement Result of LTE Band 66**

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	132322/1745	20M QPSK(1,49)	0.842	0.544	-1.40	24.25	24.50	0.892	2023/11/18	
Left Tilt 15 Degree	132322/1745	20M QPSK(1,49)	0.443	0.280	-0.85	24.25	24.50	0.469	2023/11/18	
Right Cheek	132322/1745	20M QPSK(1,49)	0.800	0.491	-3.81	24.25	24.50	0.847	2023/11/18	
Right Tilt 15 Degree	132322/1745	20M QPSK(1,49)	0.401	0.259	-0.49	24.25	24.50	0.425	2023/11/18	
Left Cheek	132072/1720	20M QPSK(1,0)	0.845	0.559	-0.22	24.24	24.50	0.897	2023/11/18	
Left Cheek	132572/1770	20M QPSK(1,0)	0.889	0.577	-0.95	24.28	24.50	0.935	2023/11/18	35#
Left Cheek Repeated	132572/1770	20M QPSK(1,0)	0.881	0.570	1.23	24.28	24.50	0.927	2023/11/18	
50%RB										
Left	132322/1745	20M QPSK(50,24)	0.462	0.298	-0.07	23.20	23.50	0.495	2023/11/18	

Test Position	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Cheek										
Left Tilt 15 Degree	132322/1745	20M QPSK(50,24)	0.259	0.153	0.35	23.20	23.50	0.278	2023/11/18	
Right Cheek	132322/1745	20M QPSK(50,24)	0.440	0.258	-0.89	23.20	23.50	0.471	2023/11/18	
Right Tilt 15 Degree	132322/1745	20M QPSK(50,24)	0.202	0.138	-4.46	23.20	23.50	0.216	2023/11/18	
100%RB										
Left Cheek	132322/1745	20M QPSK(100,0)	0.312	0.189	1.52	23.14	23.50	0.339	2023/11/18	

NOTE: Head SAR test results of LTE Band 66

Test Position	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	132322/1745	20M QPSK(1,49)	0.462	0.167	-3.57	24.25	24.50	0.489	2023/11/18	
Back Side	132322/1745	20M QPSK(1,49)	0.752	0.286	0.28	24.25	24.50	0.797	2023/11/18	36#
50%RB										
Front Side	132322/1745	20M QPSK(50,24)	0.234	0.085	1.67	23.20	23.50	0.251	2023/11/18	
Back Side	132322/1745	20M QPSK(50,24)	0.390	0.153	-4.20	23.20	23.50	0.418	2023/11/18	

NOTE: Body-Worn SAR test results of LTE Band 66

Test Position	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	132322/1745	20M QPSK(1,49)	0.462	0.167	-3.57	24.25	24.50	0.489	2023/11/18	
Back Side	132322/1745	20M QPSK(1,49)	0.752	0.286	0.28	24.25	24.50	0.797	2023/11/18	36#
Left Side	132322/1745	20M QPSK(1,49)	0.243	0.089	-1.73	24.25	24.50	0.257	2023/11/18	
Right Side	132322/1745	20M QPSK(1,49)	0.243	0.089	0.69	24.25	24.50	0.257	2023/11/18	
Bottom	132322/1745	20M QPSK(1,49)	0.390	0.142	0.31	24.25	24.50	0.413	2023/11/18	



Side										
50%RB										
Front Side	132322/1745	20M QPSK(50,24)	0.234	0.085	1.67	23.20	23.50	0.251	2023/11/18	
Back Side	132322/1745	20M QPSK(50,24)	0.390	0.153	-4.20	23.20	23.50	0.418	2023/11/18	
Left Side	132322/1745	20M QPSK(50,24)	0.126	0.052	4.84	23.20	23.50	0.135	2023/11/18	
Right Side	132322/1745	20M QPSK(50,24)	0.123	0.049	3.50	23.20	23.50	0.132	2023/11/18	
Bottom Side	132322/1745	20M QPSK(50,24)	0.205	0.073	-2.87	23.20	23.50	0.220	2023/11/18	

NOTE: Hotspot SAR test results of LTE Band 66

**10.1.16. SAR measurement Result of WLAN 2.4G**

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Left Cheek	11/2462	802.11b	0.220	0.121	1.15	16.45	16.50	0.223	2023/11/17	15#
Left Tilt 15 Degree	11/2462	802.11b	0.126	0.067	-1.01	16.45	16.50	0.127	2023/11/17	
Right Cheek	11/2462	802.11b	0.193	0.106	-2.14	16.45	16.50	0.195	2023/11/17	
Right Tilt 15 Degree	11/2462	802.11b	0.106	0.057	1.05	16.45	16.50	0.107	2023/11/17	

NOTE: Head SAR test results of WLAN2.4G

Test Position of Body-Worn with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	11/2462	802.11b	0.066	0.041	2.68	16.45	16.50	0.067	2023/11/17	
Back Side	11/2462	802.11b	0.080	0.051	0.14	16.45	16.50	0.081	2023/11/17	16#

NOTE: Body-worn SAR test results of WLAN2.4G

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	11/2462	802.11b	0.066	0.041	2.68	16.45	16.50	0.067	2023/11/17	
Back Side	11/2462	802.11b	0.080	0.051	0.14	16.45	16.50	0.081	2023/11/17	16#
Right Side	11/2462	802.11b	0.033	0.020	2.84	16.45	16.50	0.033	2023/11/17	
Top Side	11/2462	802.11b	0.030	0.018	-3.28	16.45	16.50	0.030	2023/11/17	

NOTE: Hotspot SAR test results of WLAN2.4G

**10.1.17. SAR measurement Result of WLAN 5.2G**

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Left Cheek	38/5190	802.11ac VHT40	0.321	0.124	2.03	8.19	8.50	0.345	2023/11/21	11#
Left Tilt 15 Degree	38/5190	802.11ac VHT40	0.175	0.066	3.01	8.19	8.50	0.188	2023/11/21	
Right Cheek	38/5190	802.11ac VHT40	0.292	0.109	-0.08	8.19	8.50	0.314	2023/11/21	
Right Tilt 15 Degree	38/5190	802.11ac VHT40	0.139	0.053	0.02	8.19	8.50	0.149	2023/11/21	

NOTE: Head SAR test results of WLAN5.2G

Test Position of Body-Worn with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	38/5190	802.11ac VHT40	0.150	0.081	-3.93	8.19	8.50	0.161	2023/11/21	
Back Side	38/5190	802.11ac VHT40	0.237	0.132	-1.00	8.19	8.50	0.255	2023/11/21	13#

NOTE: Body-worn SAR test results of WLAN5.2G

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	38/5190	802.11ac VHT40	0.150	0.081	-3.93	8.19	8.50	0.161	2023/11/21	
Back Side	38/5190	802.11ac VHT40	0.237	0.132	-1.00	8.19	8.50	0.255	2023/11/21	13#
Right Side	38/5190	802.11ac VHT40	0.081	0.045	3.12	8.19	8.50	0.087	2023/11/21	
Top Side	38/5190	802.11ac VHT40	0.075	0.043	2.62	8.19	8.50	0.081	2023/11/21	

NOTE: Hotspot SAR test results of WLAN5.2G

**10.1.18. SAR measurement Result of WLAN 5.8G**

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Left Cheek	151/5755	802.11n HT40	0.270	0.112	4.60	9.96	10.00	0.272	2023/11/20	12#
Left Tilt 15 Degree	151/5755	802.11n HT40	0.147	0.058	-2.96	9.96	10.00	0.148	2023/11/20	
Right Cheek	151/5755	802.11n HT40	0.238	0.094	0.52	9.96	10.00	0.240	2023/11/20	
Right Tilt 15 Degree	151/5755	802.11n HT40	0.125	0.051	1.36	9.96	10.00	0.126	2023/11/20	

NOTE: Head SAR test results of WLAN5.8G

Test Position of Body-Worn with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	151/5755	802.11n HT40	0.084	0.059	-1.31	9.96	10.00	0.085	2023/11/20	
Back Side	151/5755	802.11n HT40	0.107	0.077	-0.77	9.96	10.00	0.108	2023/11/20	14#

NOTE: Body-worn SAR test results of WLAN5.8G

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	151/5755	802.11n HT40	0.084	0.059	-1.31	9.96	10.00	0.085	2023/11/20	
Back Side	151/5755	802.11n HT40	0.107	0.077	-0.77	9.96	10.00	0.108	2023/11/20	14#
Right Side	151/5755	802.11n HT40	0.036	0.025	3.78	9.96	10.00	0.036	2023/11/20	
Top Side	151/5755	802.11n HT40	0.033	0.024	-1.72	9.96	10.00	0.033	2023/11/20	

NOTE: Hotspot SAR test results of WLAN5.8G

## 10.2. Simultaneous Transmission Analysis

Per KDB 447498 D01, simultaneous transmission SAR is compliant if,

- Scalar SAR summation < 1.6W/kg.
- $SPLSR = (SAR_1 + SAR_2)^{1.5} / (\text{min. separation distance, mm})$ , and the peak separation distance is determined from the square root of  $[(x_1-x_2)^2 + (y_1-y_2)^2 + (z_1-z_2)^2]$ , where  $(x_1, y_1, z_1)$  and  $(x_2, y_2, z_2)$  are the coordinates of the extrapolated peak SAR locations in the zoom scan. If  $SPLSR \leq 0.04$ , simultaneously transmission SAR measurement is not necessary.

Test Position		Scaled SAR <sub>MAX</sub>		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	DTS			
Head	Left Cheek	1.067	0.223	1.290	N/A	N/A
	Left Tilt 15 Degree	0.613	0.127	0.740	N/A	N/A
	Right Cheek	0.923	0.195	1.118	N/A	N/A
	Right Tilt 15 Degree	0.507	0.107	0.614	N/A	N/A
Body-Worn	Front Side	0.584	0.067	0.651	N/A	N/A
	Back Side	0.949	0.081	1.030	N/A	N/A
Hotspot	Front Side	0.584	0.067	0.651	N/A	N/A

	Back Side	0.949	0.081	1.030	N/A	N/A
	Left Side	0.282	N/A	0.282	N/A	N/A
	Right Side	0.295	0.033	0.328	N/A	N/A
	Top Side	N/A	0.030	0.030	N/A	N/A
	Bottom Side	0.470	N/A	0.470	N/A	N/A

Test Position		Scaled SAR <sub>MAX</sub>		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	NII			
Head	Left Cheek	1.067	0.345	1.412	N/A	N/A
	Left Tilt 15 Degree	0.613	0.188	0.801	N/A	N/A
	Right Cheek	0.923	0.314	1.237	N/A	N/A
	Right Tilt 15 Degree	0.507	0.149	0.656	N/A	N/A
Body-Worn	Front Side	0.584	0.161	0.745	N/A	N/A
	Back Side	0.949	0.255	1.204	N/A	N/A
Hotspot	Front Side	0.584	0.161	0.745	N/A	N/A
	Back Side	0.949	0.255	1.204	N/A	N/A
	Left Side	0.282	N/A	0.282	N/A	N/A
	Right Side	0.295	0.087	0.382	N/A	N/A
	Top Side	N/A	0.081	0.081	N/A	N/A
	Bottom Side	0.470	N/A	0.470	N/A	N/A

Test Position		Scaled SAR <sub>MAX</sub>		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	DSS			
Head	Left Cheek	1.067	0.084	1.151	N/A	N/A
	Left Tilt 15 Degree	0.613	0.084	0.697	N/A	N/A
	Right Cheek	0.923	0.084	1.007	N/A	N/A
	Right Tilt 15 Degree	0.507	0.084	0.591	N/A	N/A
Body-Worn	Front Side	0.584	0.042	0.626	N/A	N/A
	Back Side	0.949	0.042	0.991	N/A	N/A
Hotspot	Front Side	0.584	0.042	0.626	N/A	N/A
	Back Side	0.949	0.042	0.991	N/A	N/A

	Left Side	0.282	N/A	0.282	N/A	N/A
	Right Side	0.295	0.042	0.337	N/A	N/A
	Top Side	N/A	0.042	0.042	N/A	N/A
	Bottom Side	0.470	N/A	0.470	N/A	N/A

## 11. Appendix A. Photo documentation

Refer to appendix Test Setup photo---SAR

## 12. Appendix B. System Check Plots

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MEASUREMENT 1 System Performance Check - 750MHz
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MEASUREMENT 6 System Performance Check - 2600MHz
MEASUREMENT 7 System Performance Check - 5200MHz
MEASUREMENT 8 System Performance Check - 5800MHz

# MEASUREMENT 1

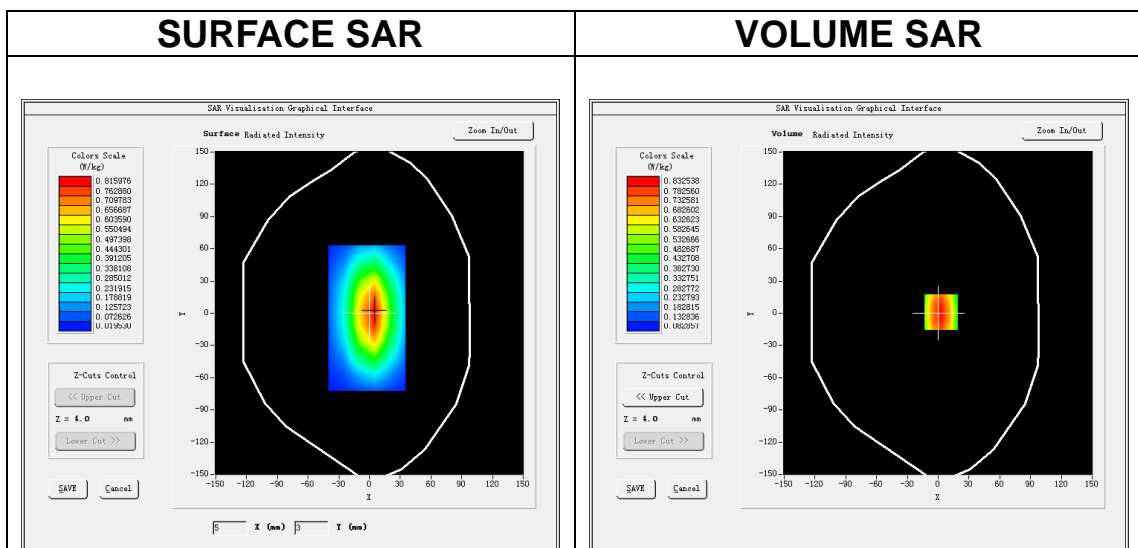
Date of measurement: 11/11/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Dipole</u>
<b>Band</b>	<u>CW750</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>CW (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>2.37</u>

## B. SAR Measurement Results

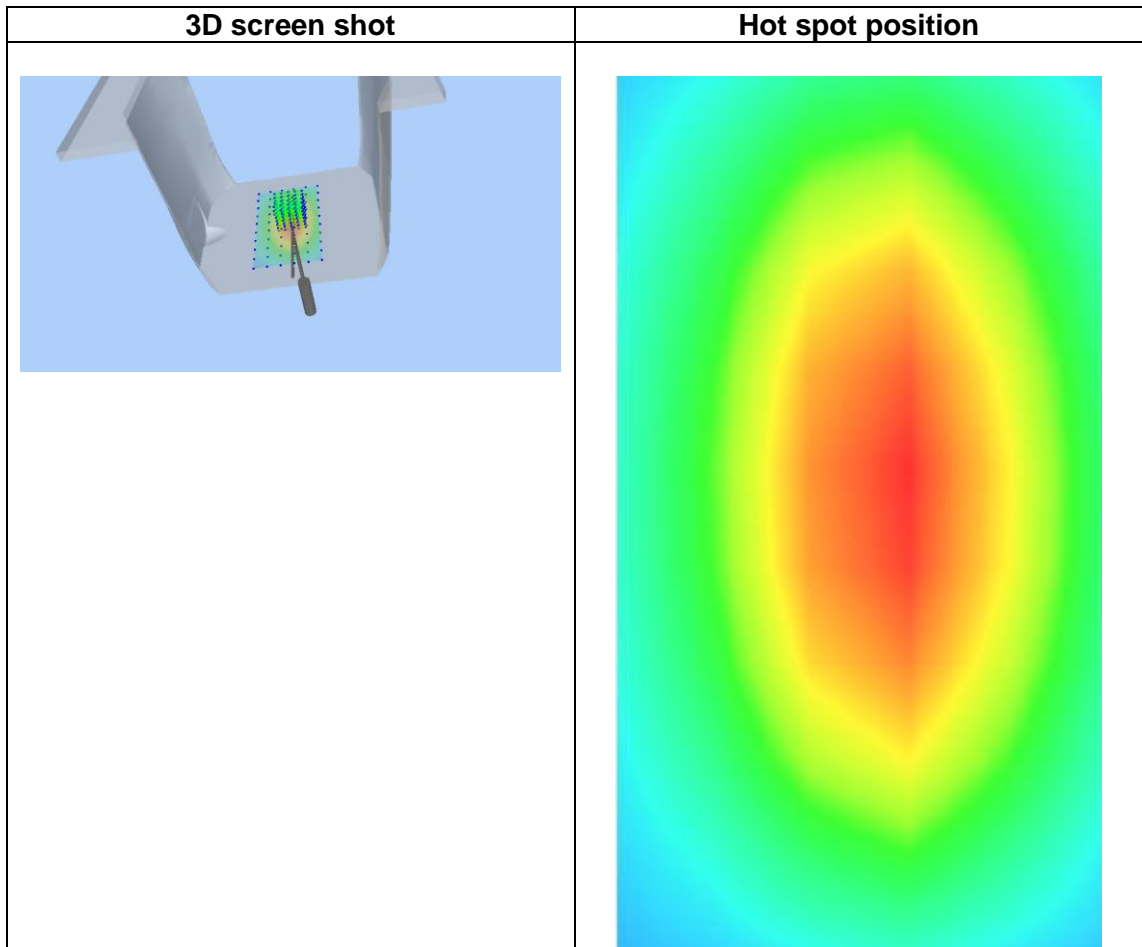
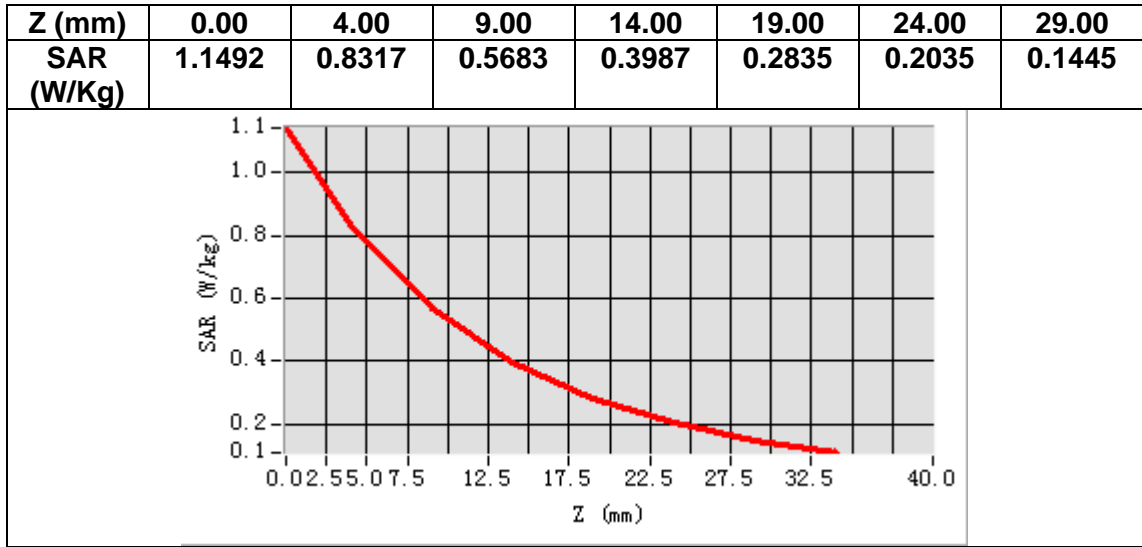
<b>Frequency (MHz)</b>	750.000000
<b>Relative permittivity (real part)</b>	42.179626
<b>Relative permittivity (imaginary part)</b>	22.116969
<b>Conductivity (S/m)</b>	0.921540
<b>Variation (%)</b>	2.730000



**Maximum location: X=3.00, Y=1.00**  
**SAR Peak: 1.14 W/kg**

<b>SAR 10g (W/Kg)</b>	0.528332
<b>SAR 1g (W/Kg)</b>	0.895321





## MEASUREMENT 2

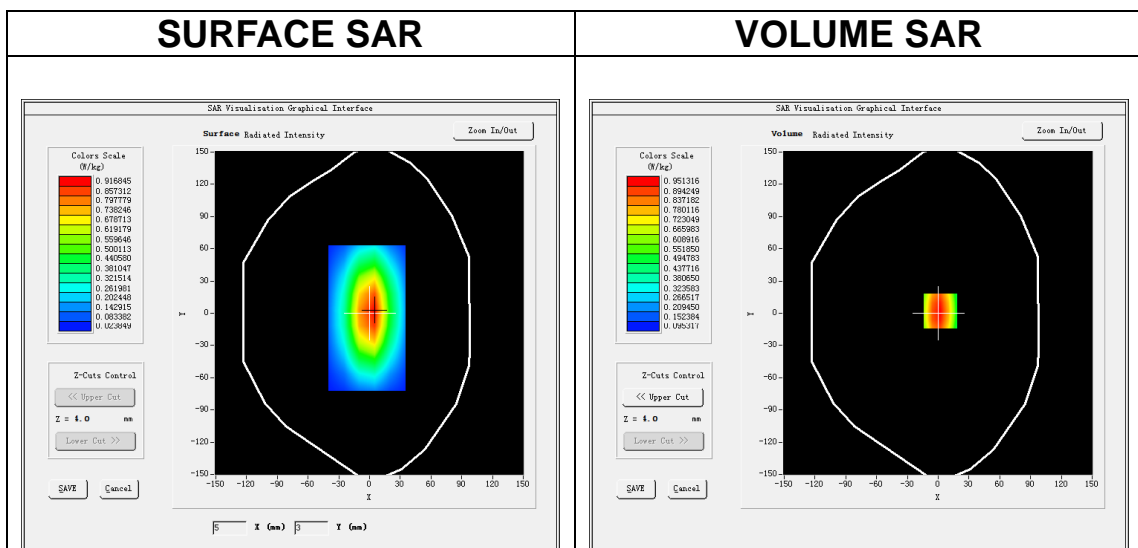
Date of measurement: 24/11/2023

### A. Experimental conditions.

<b>Area Scan</b>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Dipole</u>
<b>Band</b>	<u>CW835</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>CW (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>2.32</u>

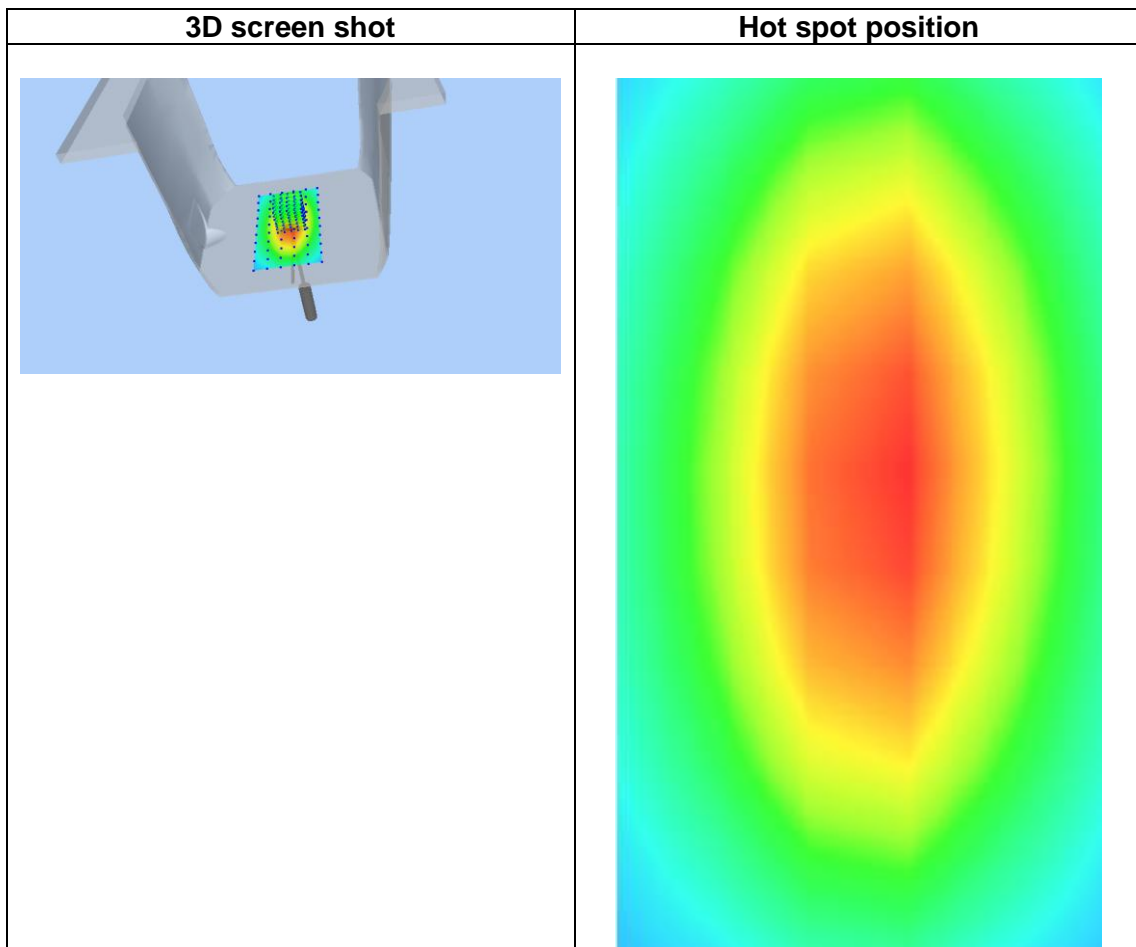
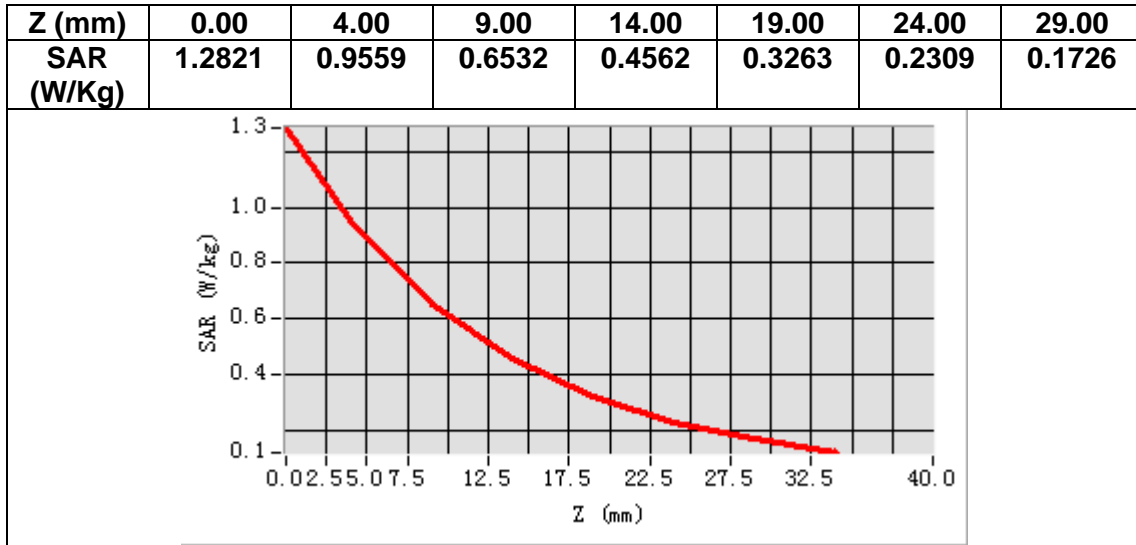
### B. SAR Measurement Results

<b>Frequency (MHz)</b>	835.000000
<b>Relative permittivity (real part)</b>	41.553681
<b>Relative permittivity (imaginary part)</b>	19.433996
<b>Conductivity (S/m)</b>	0.901521
<b>Variation (%)</b>	-2.720000



**Maximum location: X=2.00, Y=2.00**  
**SAR Peak: 1.29 W/kg**

<b>SAR 10g (W/Kg)</b>	0.587333
<b>SAR 1g (W/Kg)</b>	0.923172



# MEASUREMENT 3

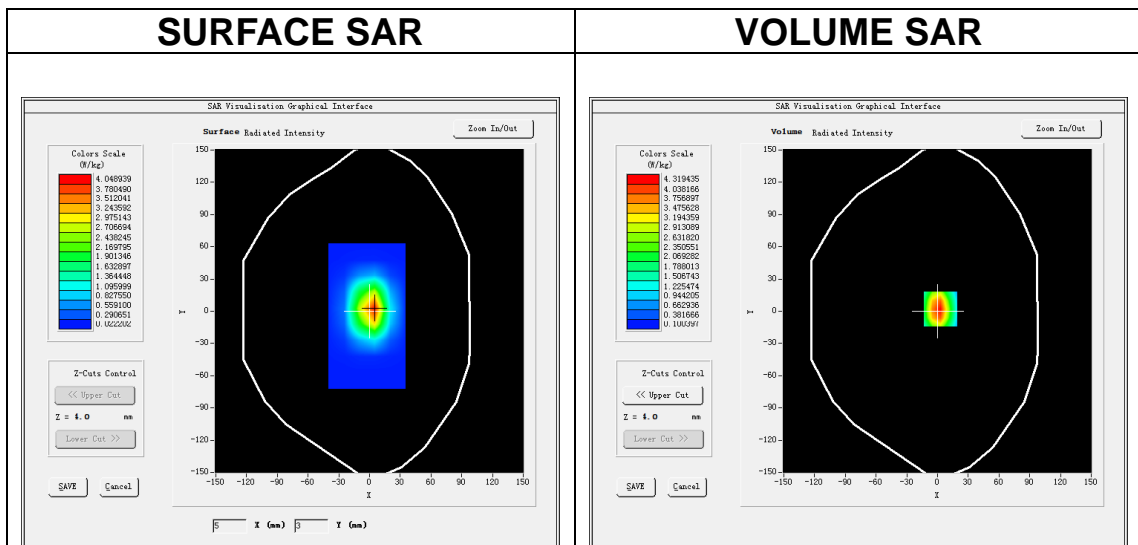
Date of measurement: 18/11/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Dipole</u>
<b>Band</b>	<u>CW1800</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>CW (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>2.45</u>

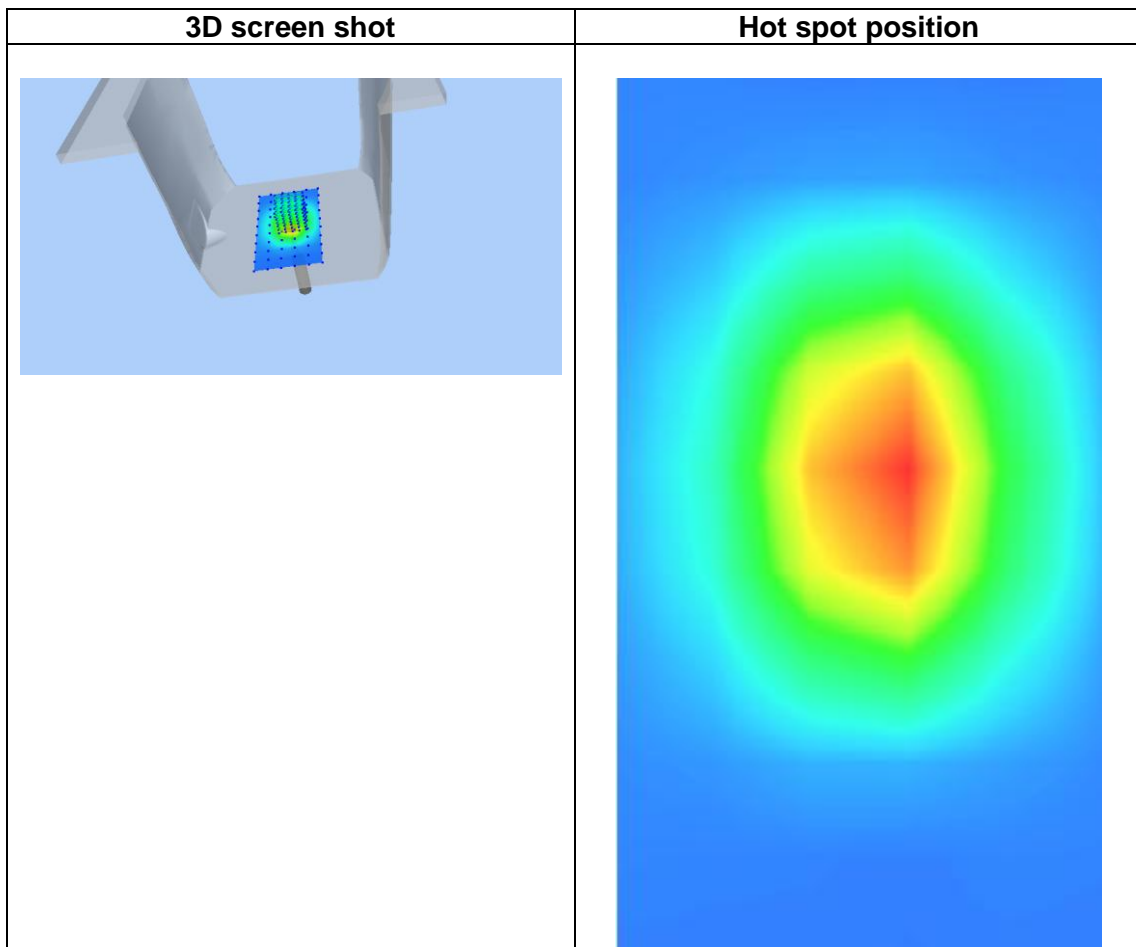
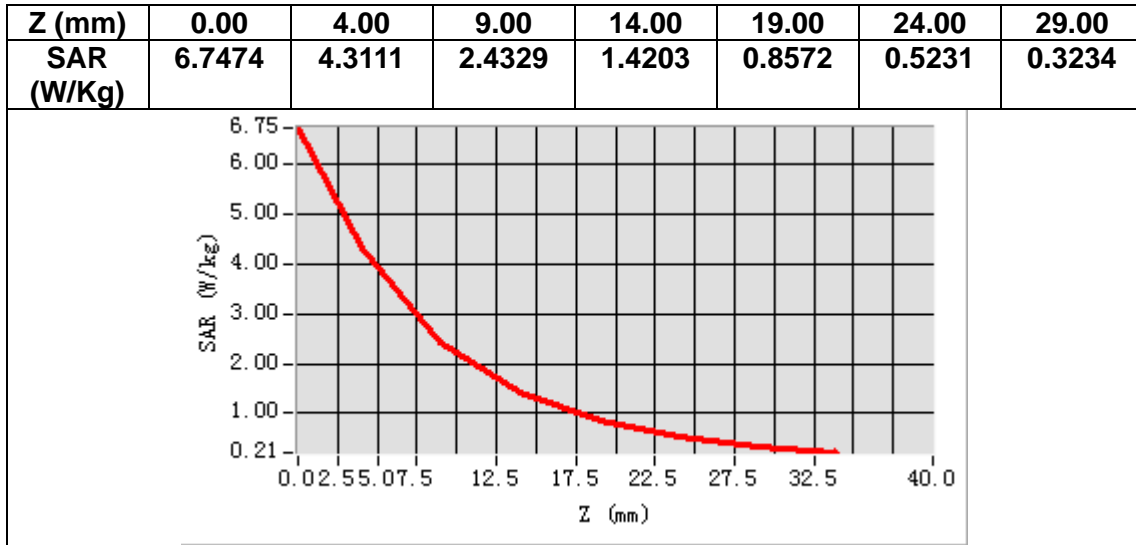
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	1800.000000
<b>Relative permittivity (real part)</b>	39.760980
<b>Relative permittivity (imaginary part)</b>	14.043729
<b>Conductivity (S/m)</b>	1.404373
<b>Variation (%)</b>	2.980000



**Maximum location: X=3.00, Y=2.00**  
**SAR Peak: 6.82 W/kg**

<b>SAR 10g (W/Kg)</b>	2.150307
<b>SAR 1g (W/Kg)</b>	3.638066



# MEASUREMENT 4

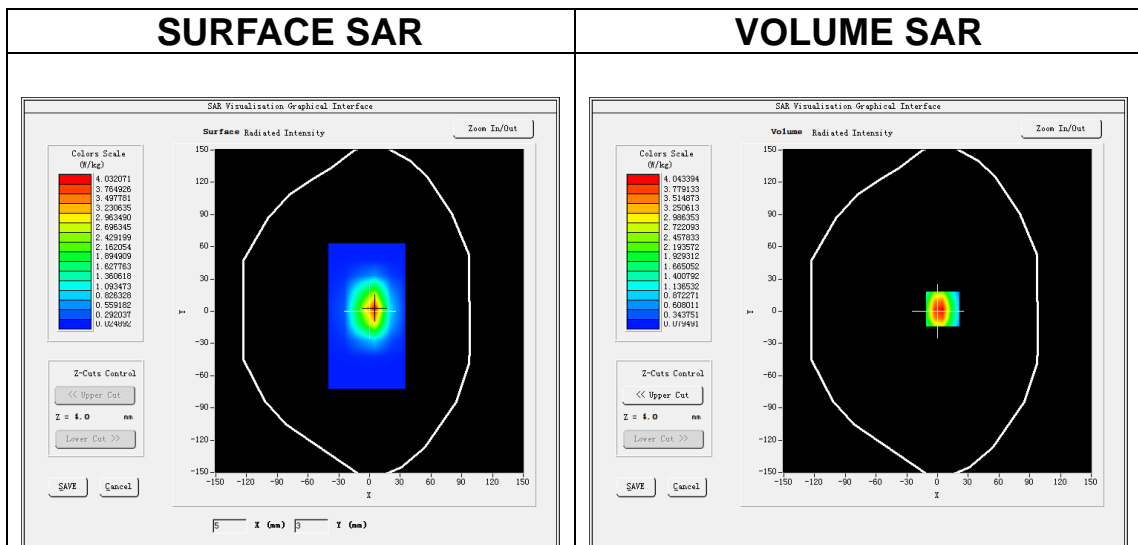
Date of measurement: 23/11/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Dipole</u>
<b>Band</b>	<u>CW1900</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>CW (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>2.63</u>

## B. SAR Measurement Results

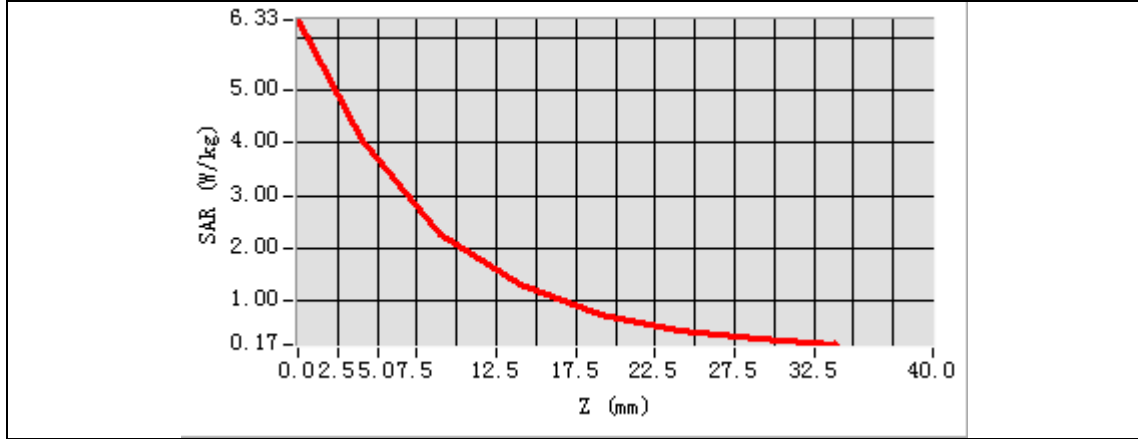
<b>Frequency (MHz)</b>	1900.000000
<b>Relative permittivity (real part)</b>	39.125400
<b>Relative permittivity (imaginary part)</b>	13.791900
<b>Conductivity (S/m)</b>	1.455812
<b>Variation (%)</b>	2.220000

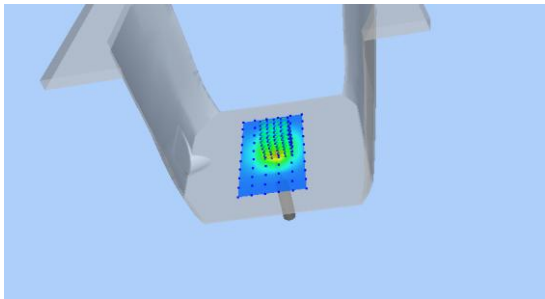
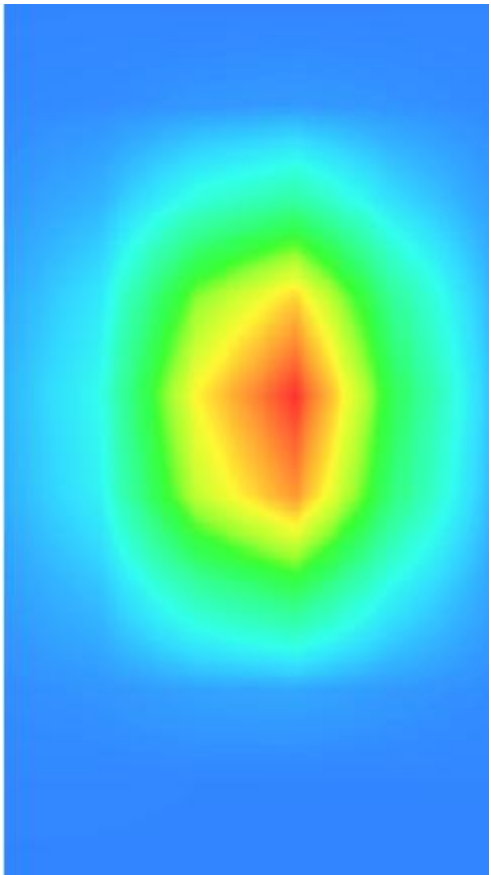


**Maximum location: X=5.00, Y=2.00**  
**SAR Peak: 6.70 W/kg**

<b>SAR 10g (W/Kg)</b>	2.093347
<b>SAR 1g (W/Kg)</b>	3.830221

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.3247	4.0419	2.2630	1.3026	0.7618	0.4514	0.2794



3D screen shot	Hot spot position
	

# MEASUREMENT 5

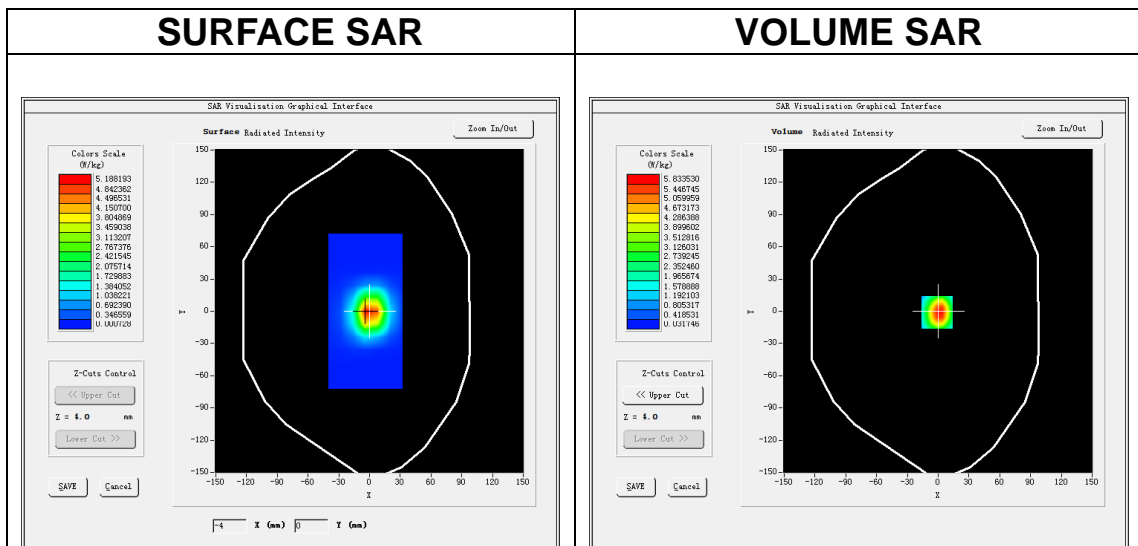
Date of measurement: 17/11/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>7x7x7, dx=5mm dy=5mm dz=5mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Dipole</u>
<b>Band</b>	<u>CW2450</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>CW (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>2.85</u>

## B. SAR Measurement Results

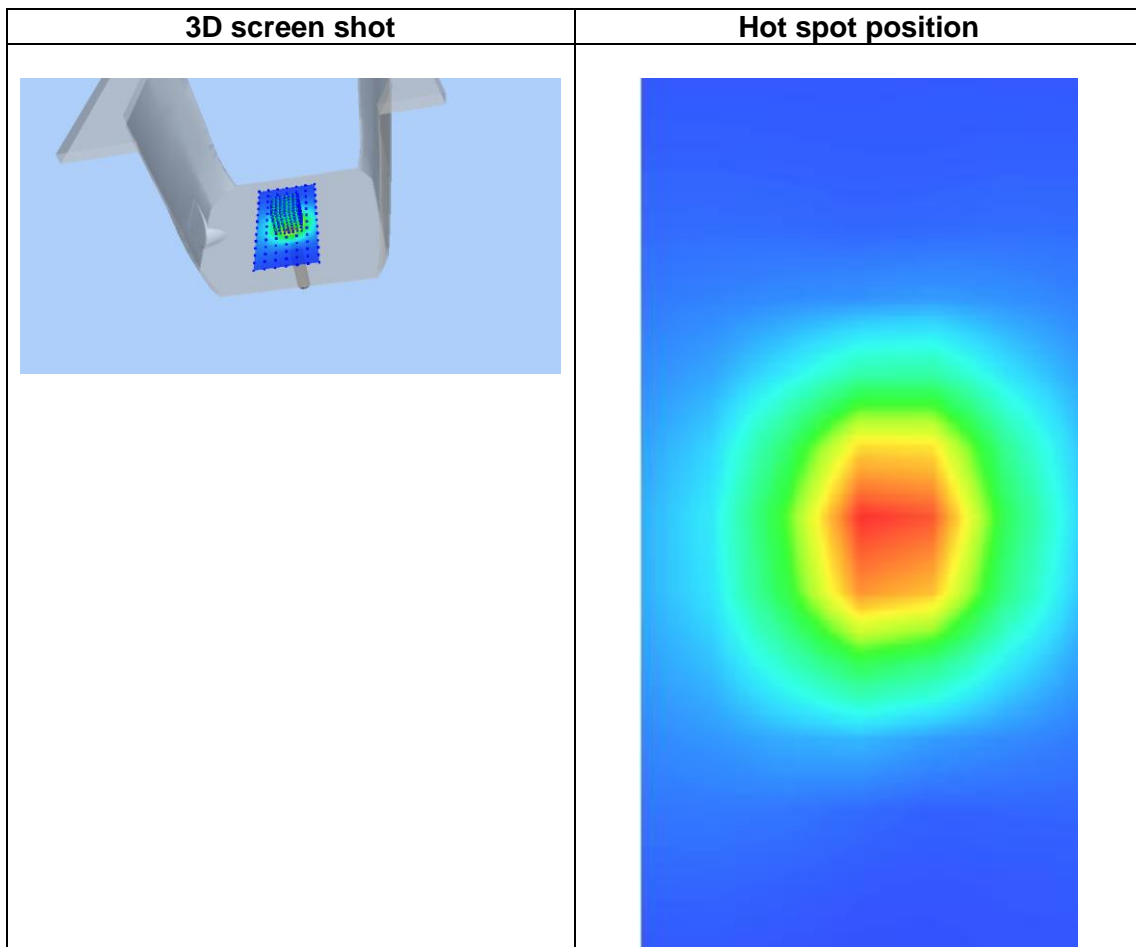
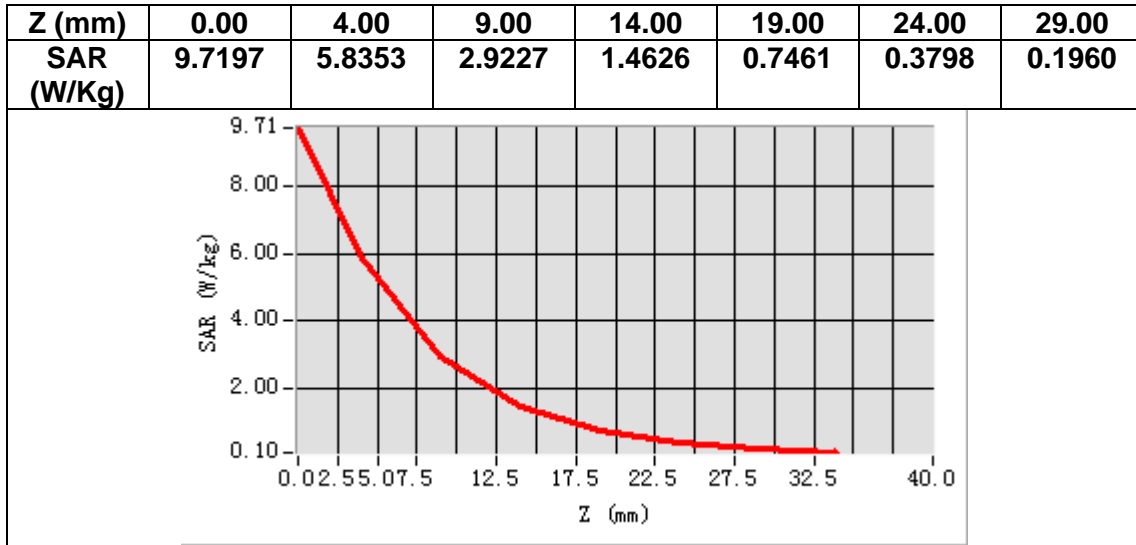
<b>Frequency (MHz)</b>	2450.000000
<b>Relative permittivity (real part)</b>	38.581112
<b>Relative permittivity (imaginary part)</b>	13.098152
<b>Conductivity (S/m)</b>	1.782804
<b>Variation (%)</b>	1.290000



**Maximum location: X=-1.00, Y=-1.00**  
**SAR Peak: 9.83 W/kg**

<b>SAR 10g (W/Kg)</b>	2.190106
<b>SAR 1g (W/Kg)</b>	5.742340





# MEASUREMENT 6

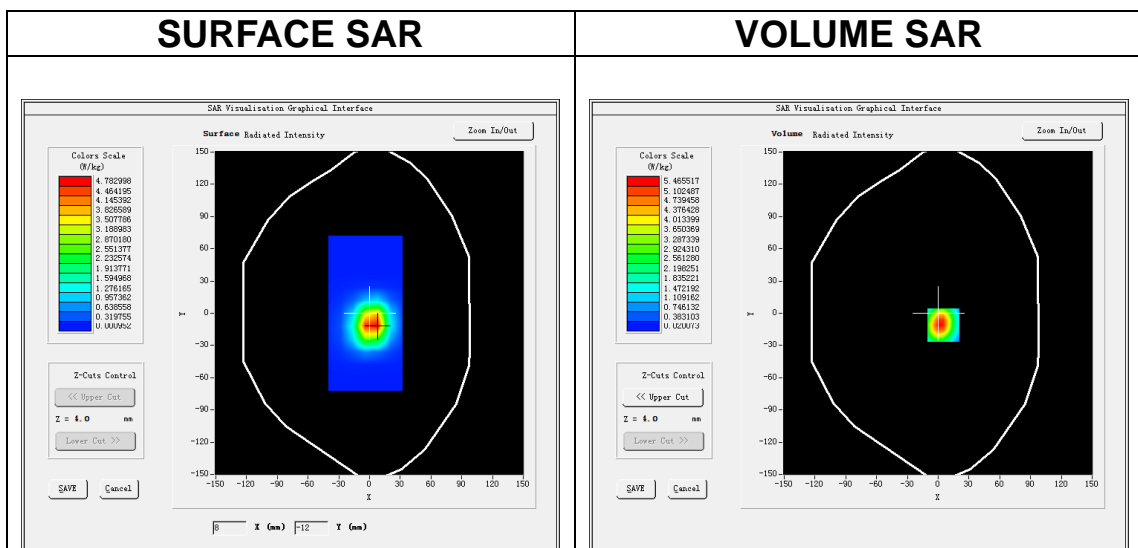
Date of measurement: 22/11/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>7x7x7, dx=5mm dy=5mm dz=5mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Dipole</u>
<b>Band</b>	<u>CW2600</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>CW (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>2.65</u>

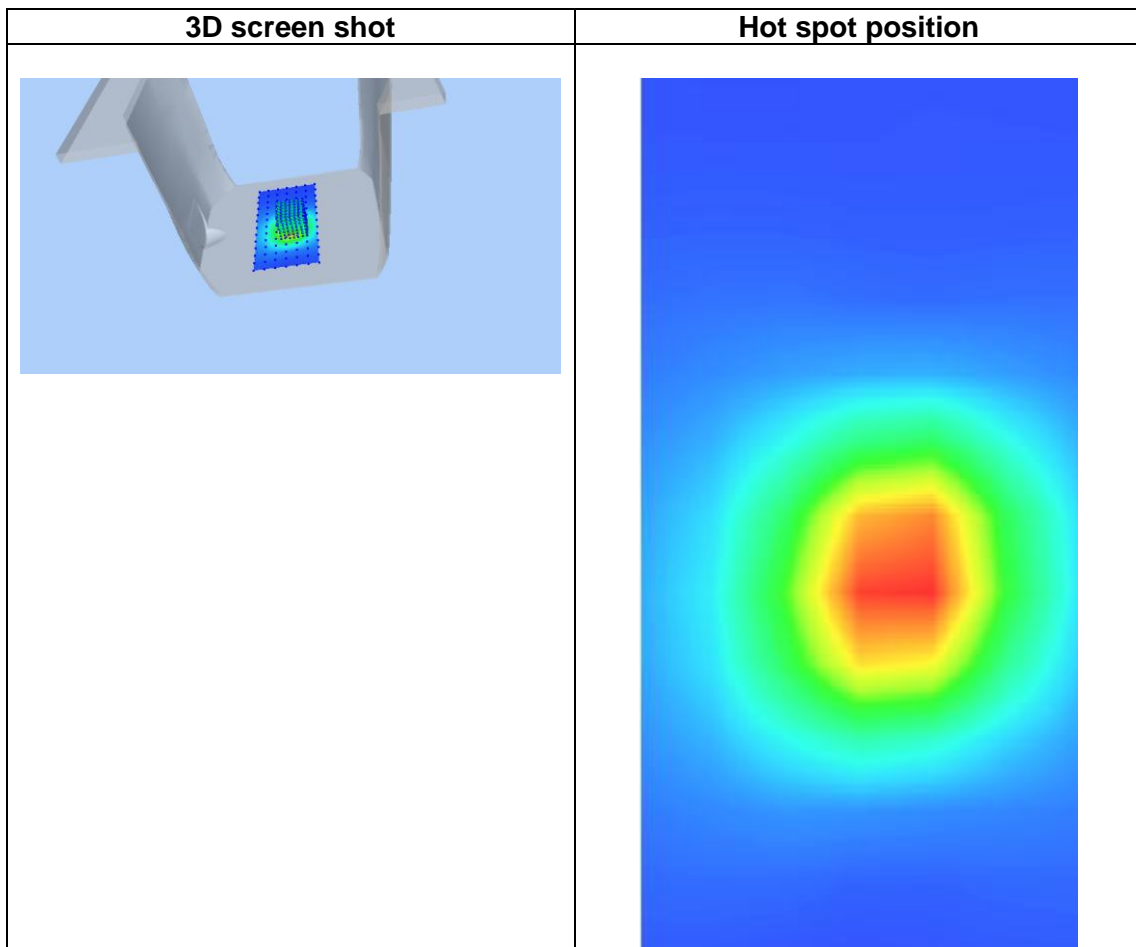
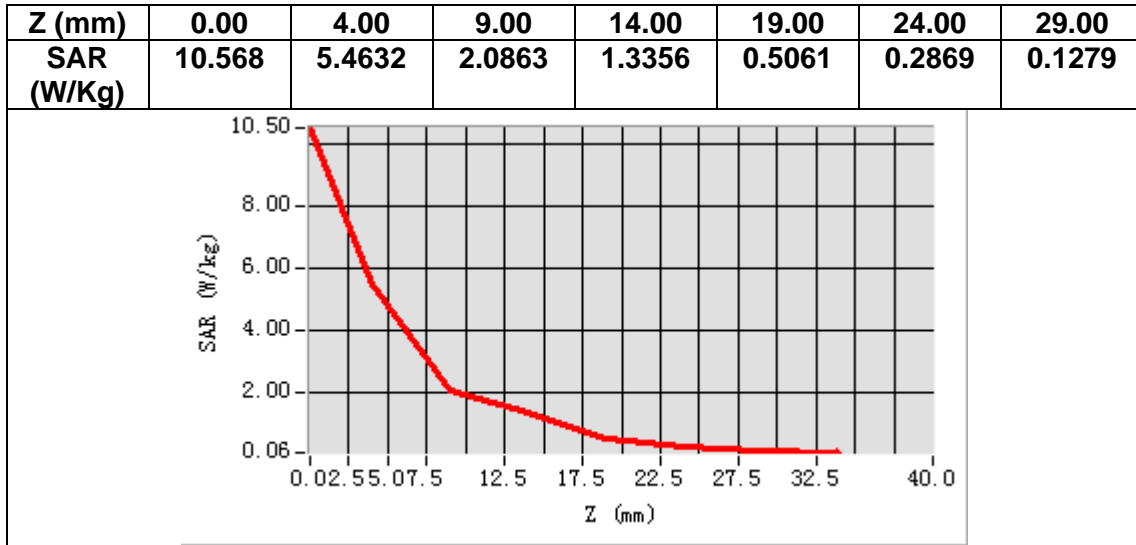
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	2600.000000
<b>Relative permittivity (real part)</b>	38.476551
<b>Relative permittivity (imaginary part)</b>	13.220156
<b>Conductivity (S/m)</b>	1.909578
<b>Variation (%)</b>	0.250000



**Maximum location: X=5.00, Y=-11.00**  
**SAR Peak: 9.43 W/kg**

<b>SAR 10g (W/Kg)</b>	2.311037
<b>SAR 1g (W/Kg)</b>	5.787199



# MEASUREMENT 7

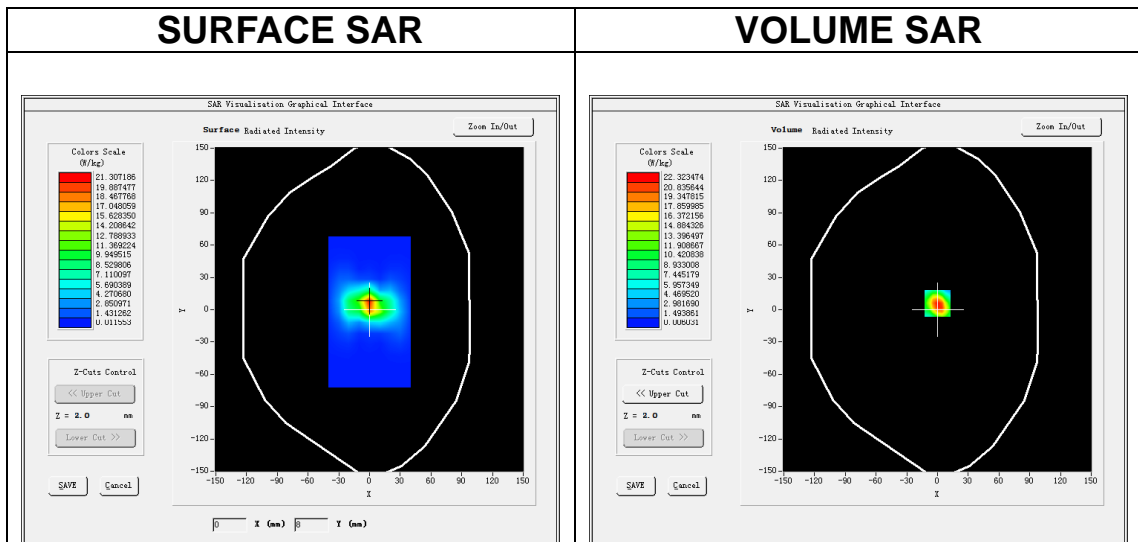
Date of measurement: 21/11/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=10mm dy=10mm, h= 2.00 mm</u>
<b>ZoomScan</b>	<u>7x7x12,dx=4mm dy=4mm dz=2mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Dipole</u>
<b>Band</b>	<u>CW5200</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>CW (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>2.07</u>

## B. SAR Measurement Results

<b>Frequency (MHz)</b>	5200.000000
<b>Relative permittivity (real part)</b>	35.511032
<b>Relative permittivity (imaginary part)</b>	15.578512
<b>Conductivity (S/m)</b>	4.500459
<b>Variation (%)</b>	2.800000

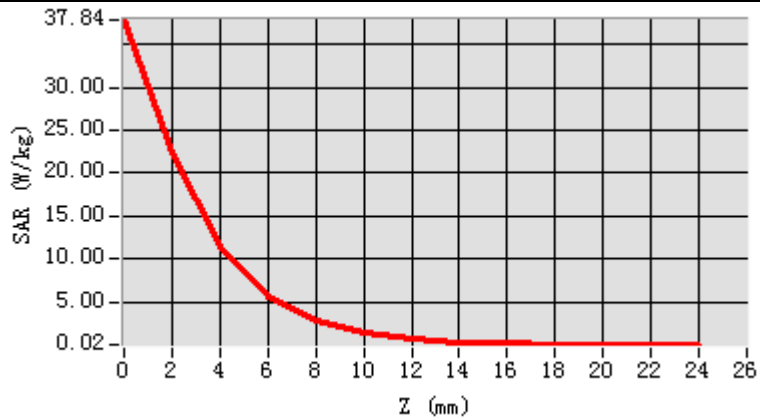


**Maximum location: X=0.00, Y=6.00**

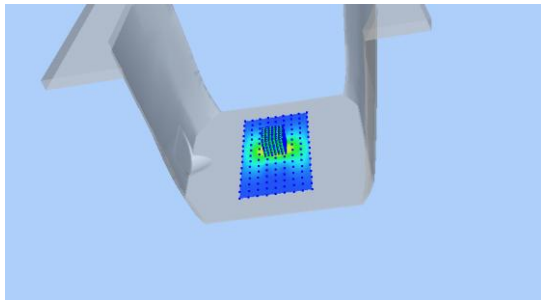
**SAR Peak: 40.06 W/kg**

<b>SAR 10g (W/Kg)</b>	5.563162
<b>SAR 1g (W/Kg)</b>	15.023032

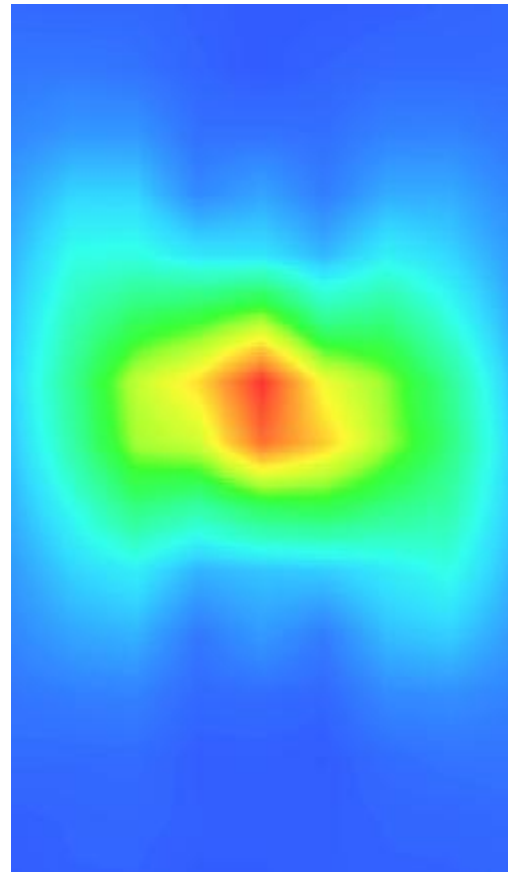
<b>Z (m m)</b>	<b>0.00</b>	<b>2.00</b>	<b>4.00</b>	<b>6.00</b>	<b>8.00</b>	<b>10.0</b>	<b>12.0</b>	<b>14.0</b>	<b>16.0</b>	<b>18.0</b>	<b>20.0</b>	<b>22.0</b>
<b>SAR (W/ Kg)</b>	<b>37.8 91</b>	<b>22.3 91</b>	<b>11.3 77</b>	<b>5.66 94</b>	<b>2.82 91</b>	<b>1.40 43</b>	<b>0.71 50</b>	<b>0.36 37</b>	<b>0.18 02</b>	<b>0.10 08</b>	<b>0.05 27</b>	<b>0.03 97</b>



**3D screen shot**



**Hot spot position**



# MEASUREMENT 8

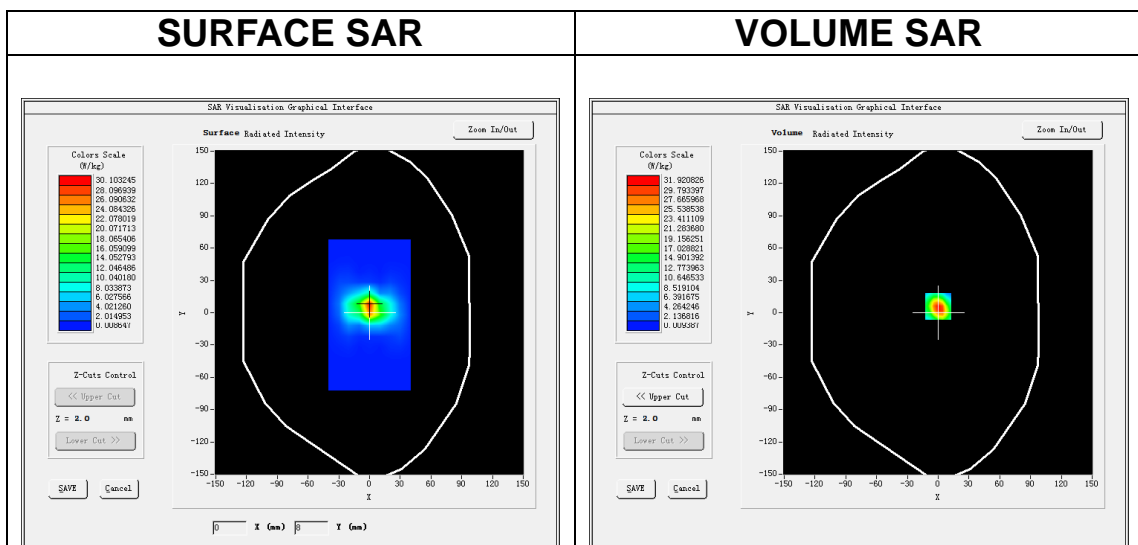
Date of measurement: 20/11/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=10mm dy=10mm, h= 2.00 mm</u>
<b>ZoomScan</b>	<u>7x7x12,dx=4mm dy=4mm dz=2mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Dipole</u>
<b>Band</b>	<u>CW5800</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>CW (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>2.04</u>

## B. SAR Measurement Results

<b>Frequency (MHz)</b>	5800.000000
<b>Relative permittivity (real part)</b>	35.048533
<b>Relative permittivity (imaginary part)</b>	16.525915
<b>Conductivity (S/m)</b>	5.325017
<b>Variation (%)</b>	-0.500000

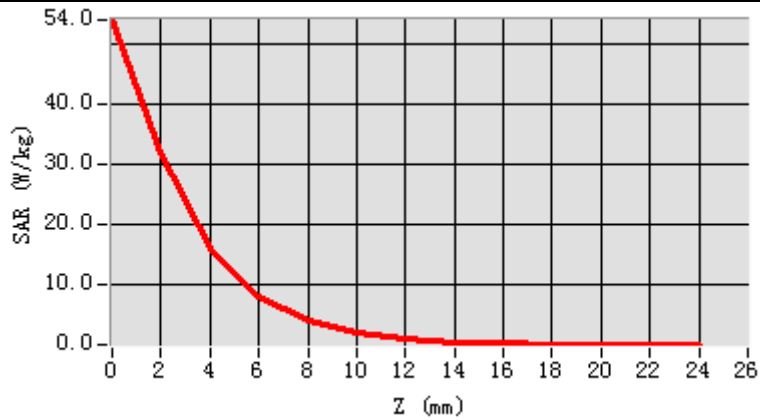


**Maximum location: X=0.00, Y=6.00**

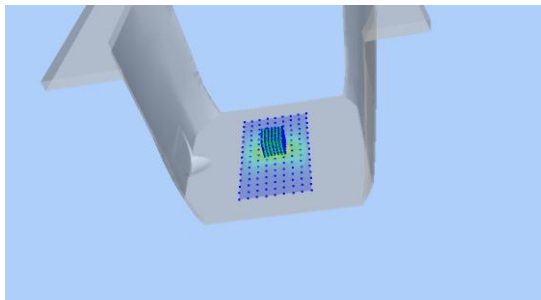
**SAR Peak: 57.37 W/kg**

<b>SAR 10g (W/Kg)</b>	5.388228
<b>SAR 1g (W/Kg)</b>	17.889190

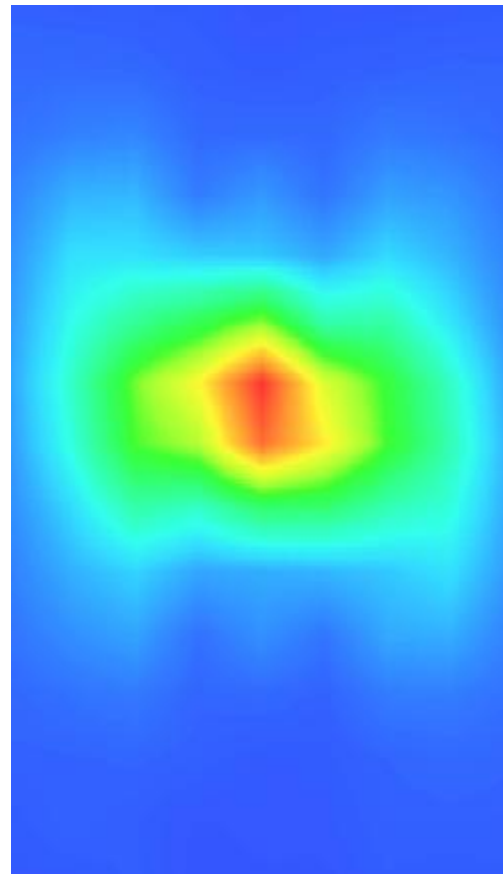
Z (m m)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	54.036	31.948	16.144	8.1766	4.0890	2.0550	1.0361	0.5144	0.2795	0.1572	0.0788	0.0438



**3D screen shot**



**Hot spot position**



### 13. Appendix C. Plots of High SAR Measurement

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# MEASUREMENT 1

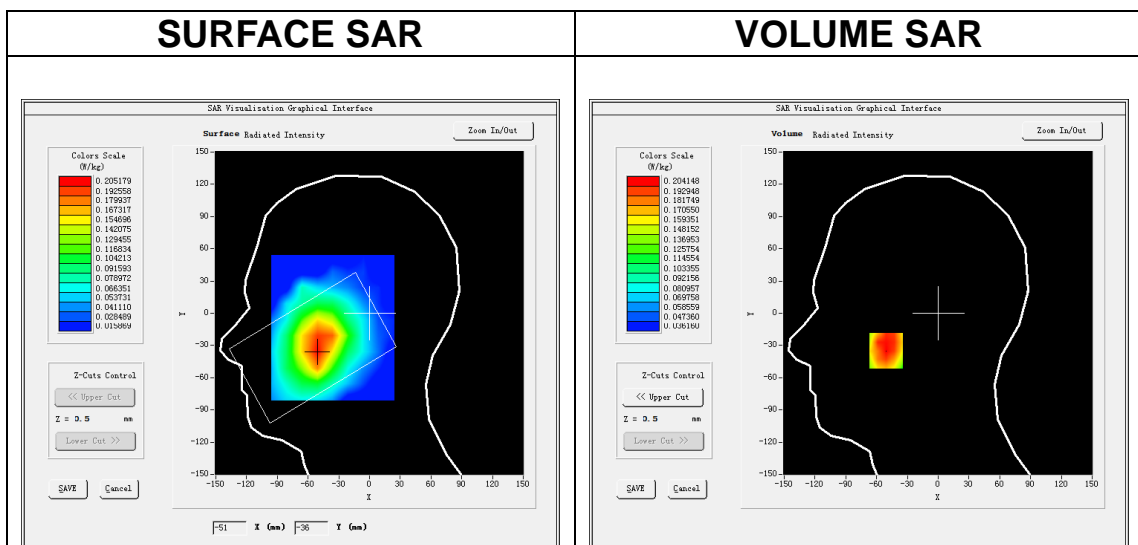
Date of measurement: 24/11/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<b>Phantom</b>	<u>Left head</u>
<b>Device Position</b>	<u>Cheek</u>
<b>Band</b>	<u>GSM850</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>TDMA (Crest factor: 4.0)</u>
<b>ConvF</b>	<u>2.32</u>

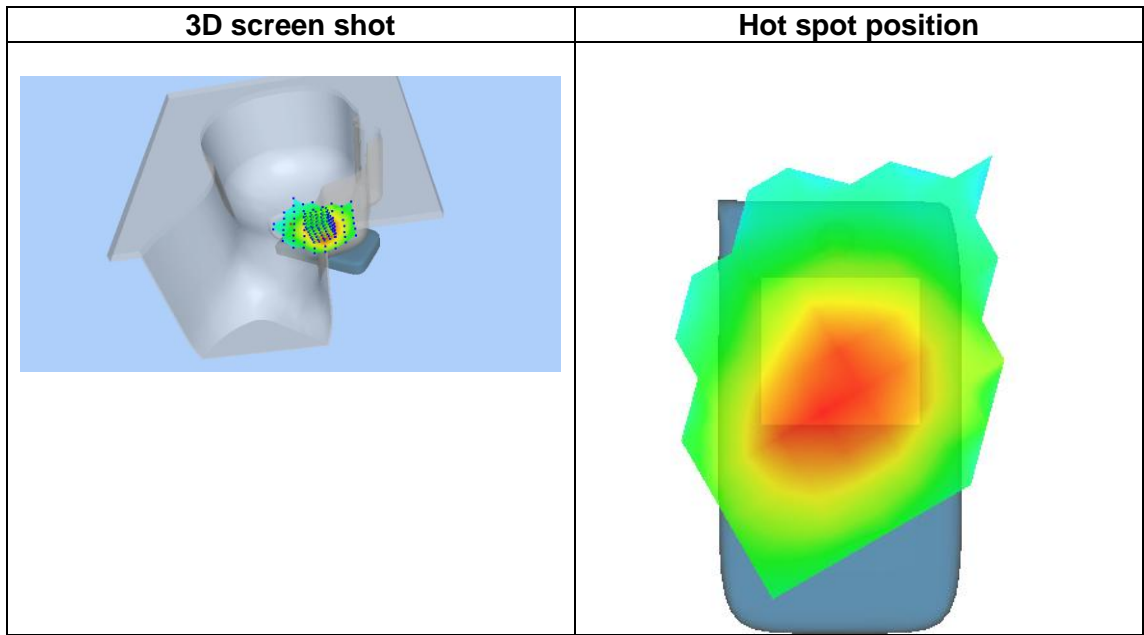
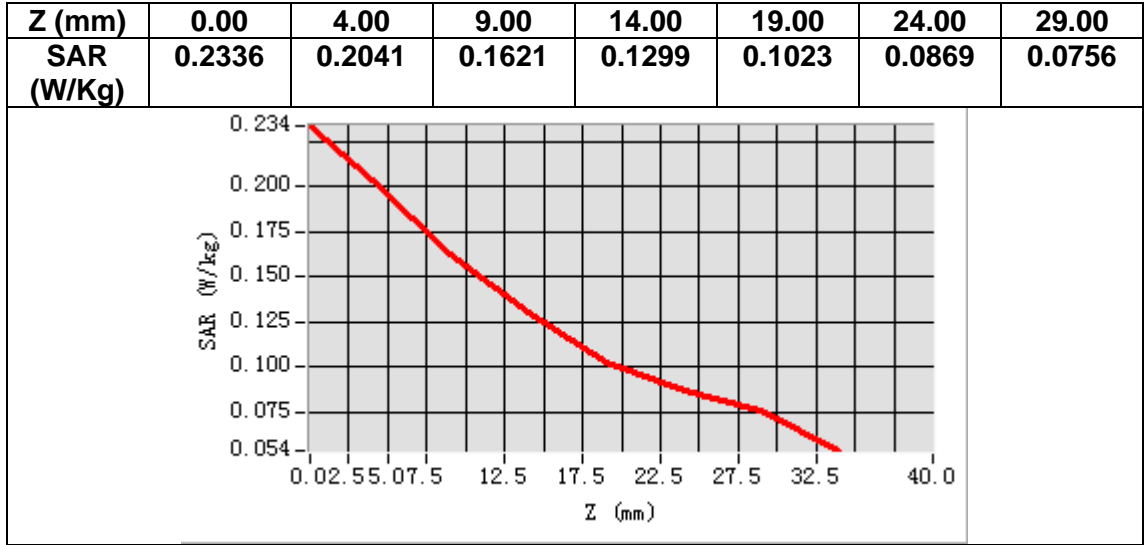
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	836.400000
<b>Relative permittivity (real part)</b>	41.562759
<b>Relative permittivity (imaginary part)</b>	19.441196
<b>Conductivity (S/m)</b>	0.903368
<b>Variation (%)</b>	2.280000



**Maximum location: X=-51.00, Y=-35.00**  
**SAR Peak: 0.27 W/kg**

<b>SAR 10g (W/Kg)</b>	0.148276
<b>SAR 1g (W/Kg)</b>	0.196226



## MEASUREMENT 2

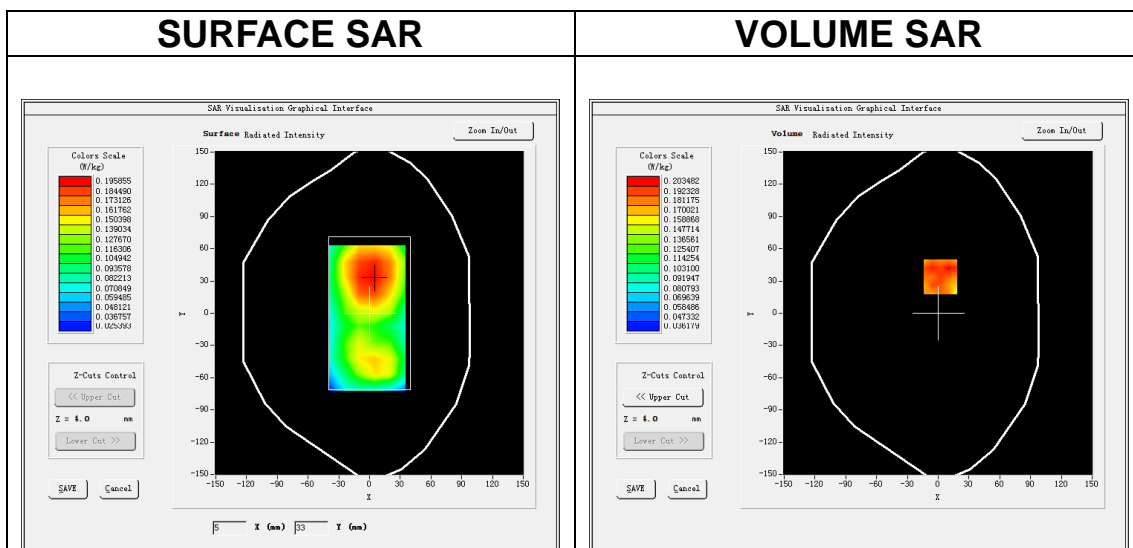
Date of measurement: 24/11/2023

### A. Experimental conditions.

<b>Area Scan</b>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Body</u>
<b>Band</b>	<u>GSM850</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>TDMA (Crest factor: 4.0)</u>
<b>ConvF</b>	<u>2.32</u>

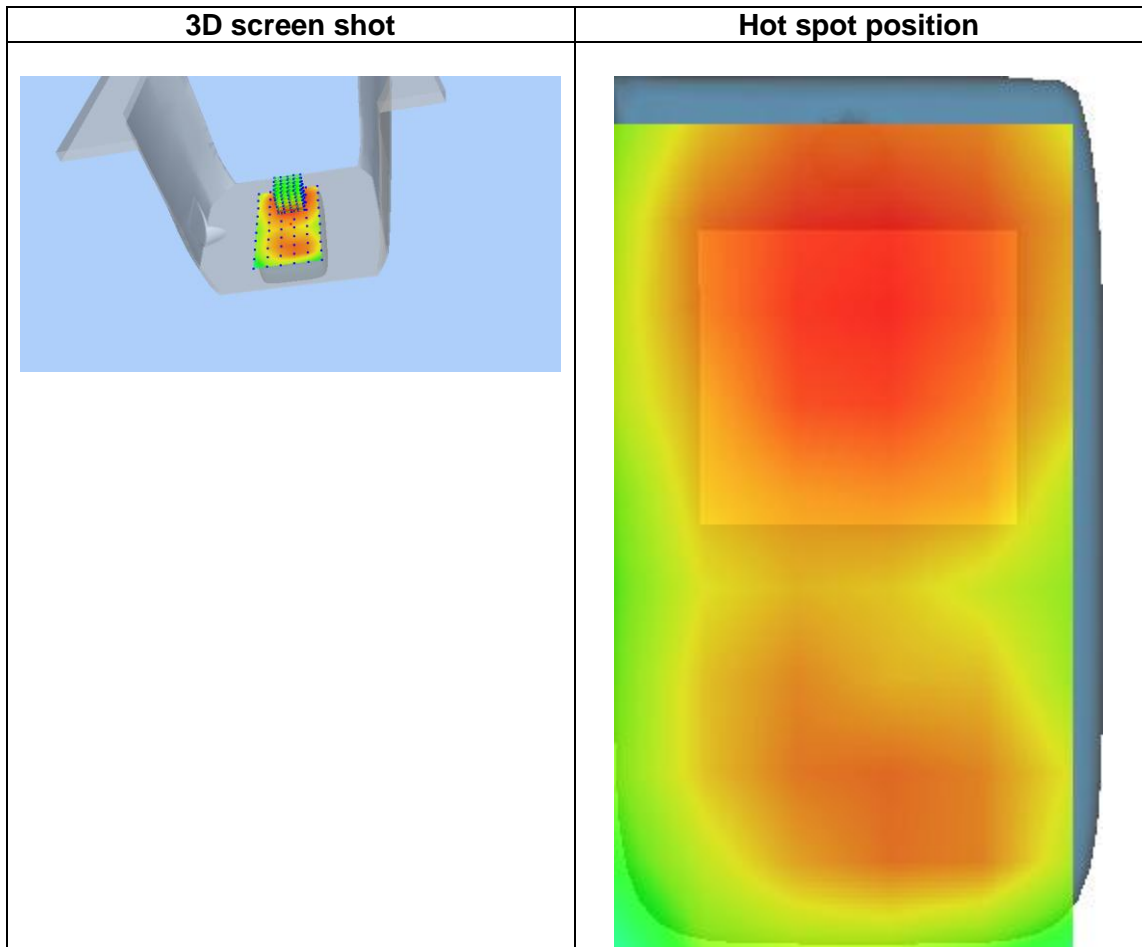
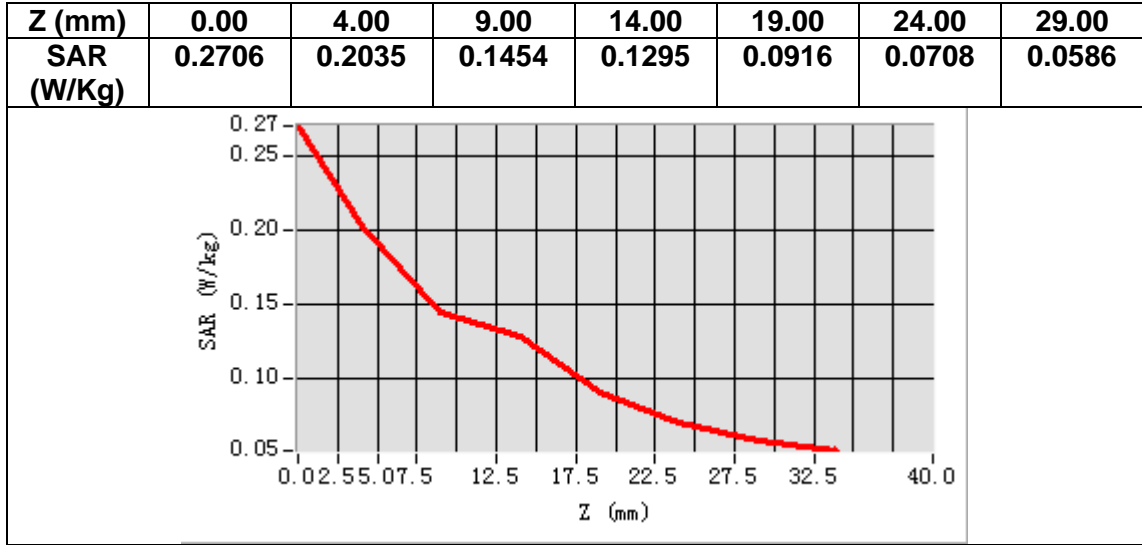
### B. SAR Measurement Results

<b>Frequency (MHz)</b>	836.400000
<b>Relative permittivity (real part)</b>	41.562759
<b>Relative permittivity (imaginary part)</b>	19.441196
<b>Conductivity (S/m)</b>	0.903368
<b>Variation (%)</b>	-1.960000



**Maximum location: X=2.00, Y=34.00**  
**SAR Peak: 0.26 W/kg**

<b>SAR 10g (W/Kg)</b>	0.144364
<b>SAR 1g (W/Kg)</b>	0.194363



# MEASUREMENT 3

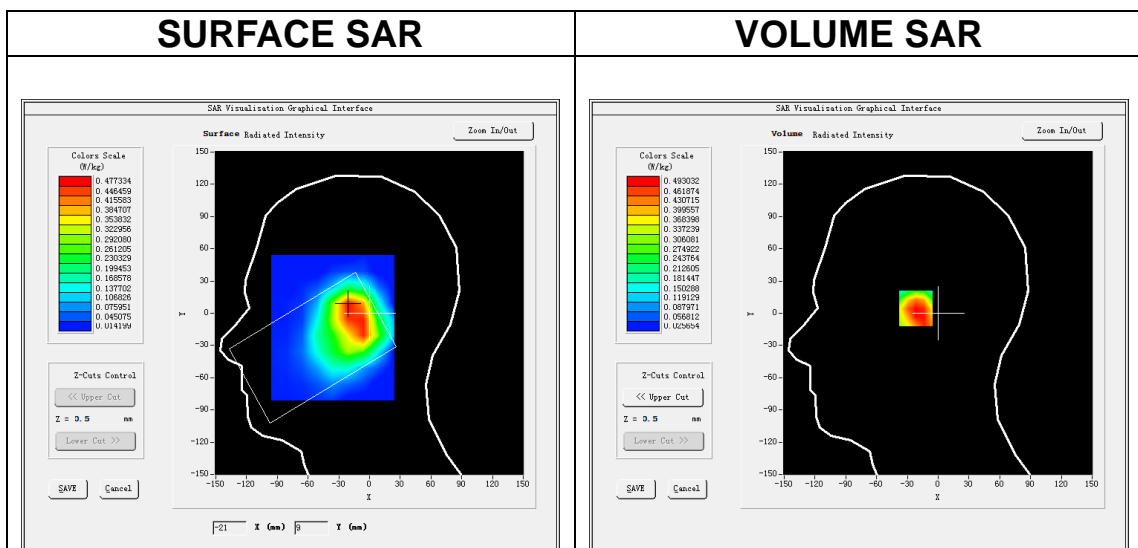
Date of measurement: 23/11/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<b>Phantom</b>	<u>Left head</u>
<b>Device Position</b>	<u>Cheek</u>
<b>Band</b>	<u>GSM1900</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>TDMA (Crest factor: 4.0)</u>
<b>ConvF</b>	<u>2.63</u>

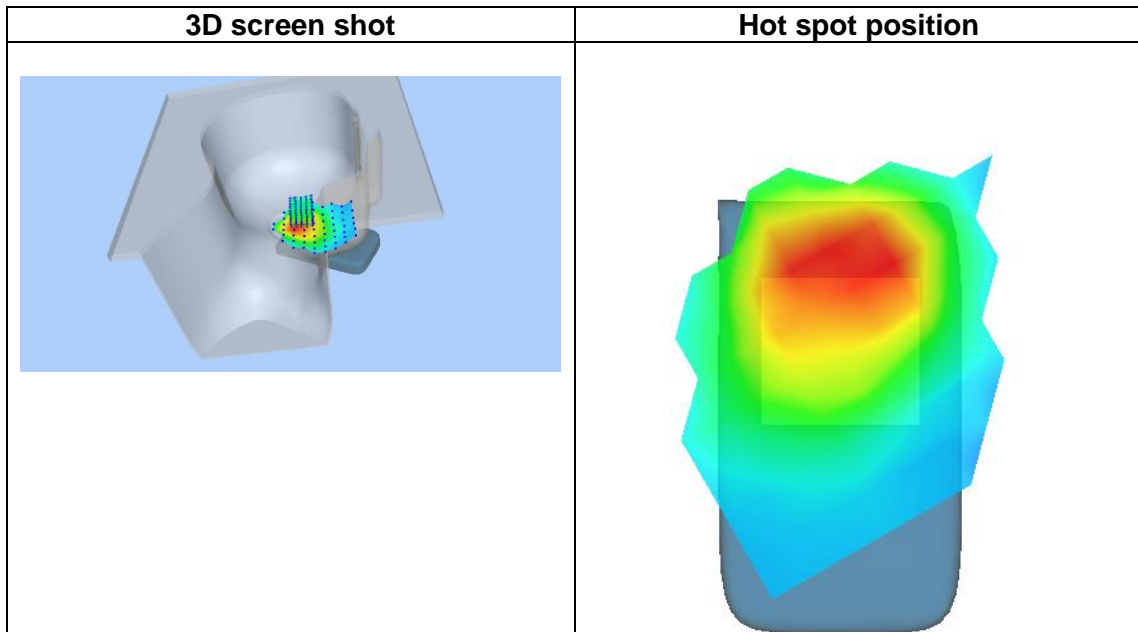
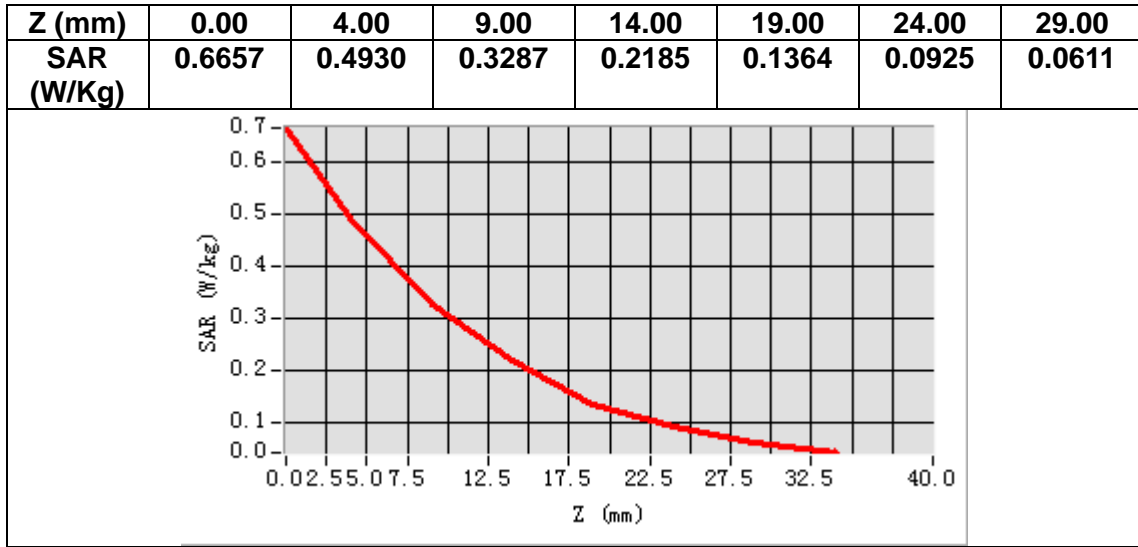
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	1880.000000
<b>Relative permittivity (real part)</b>	39.200699
<b>Relative permittivity (imaginary part)</b>	13.839800
<b>Conductivity (S/m)</b>	1.445490
<b>Variation (%)</b>	-0.810000



**Maximum location: X=-18.00, Y=5.00**  
**SAR Peak: 0.73 W/kg**

<b>SAR 10g (W/Kg)</b>	0.302470
<b>SAR 1g (W/Kg)</b>	0.494586



# MEASUREMENT 4

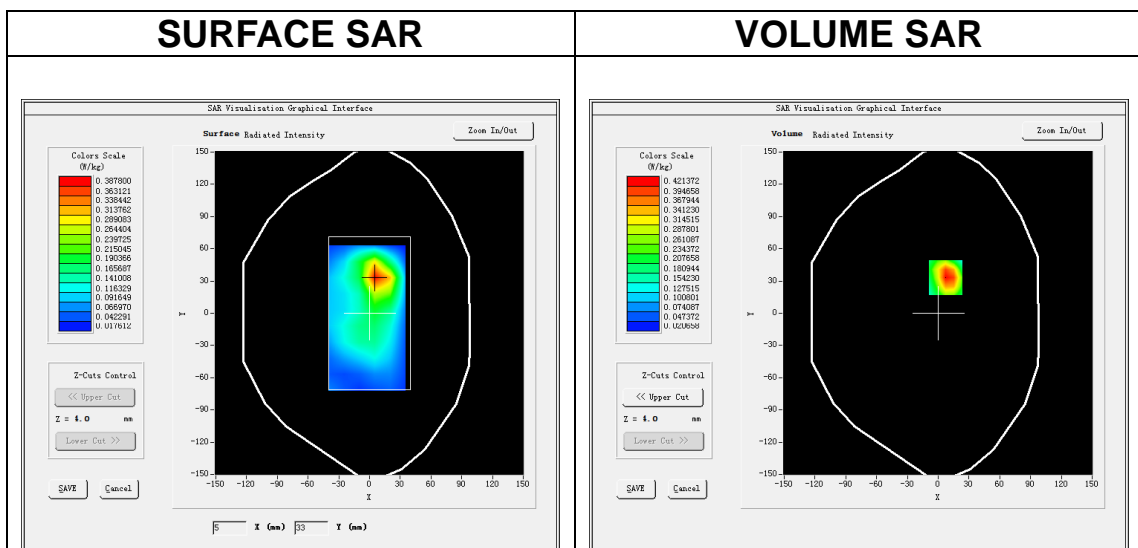
Date of measurement: 23/11/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Body</u>
<b>Band</b>	<u>GSM1900</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>TDMA (Crest factor: 4.0)</u>
<b>ConvF</b>	<u>2.63</u>

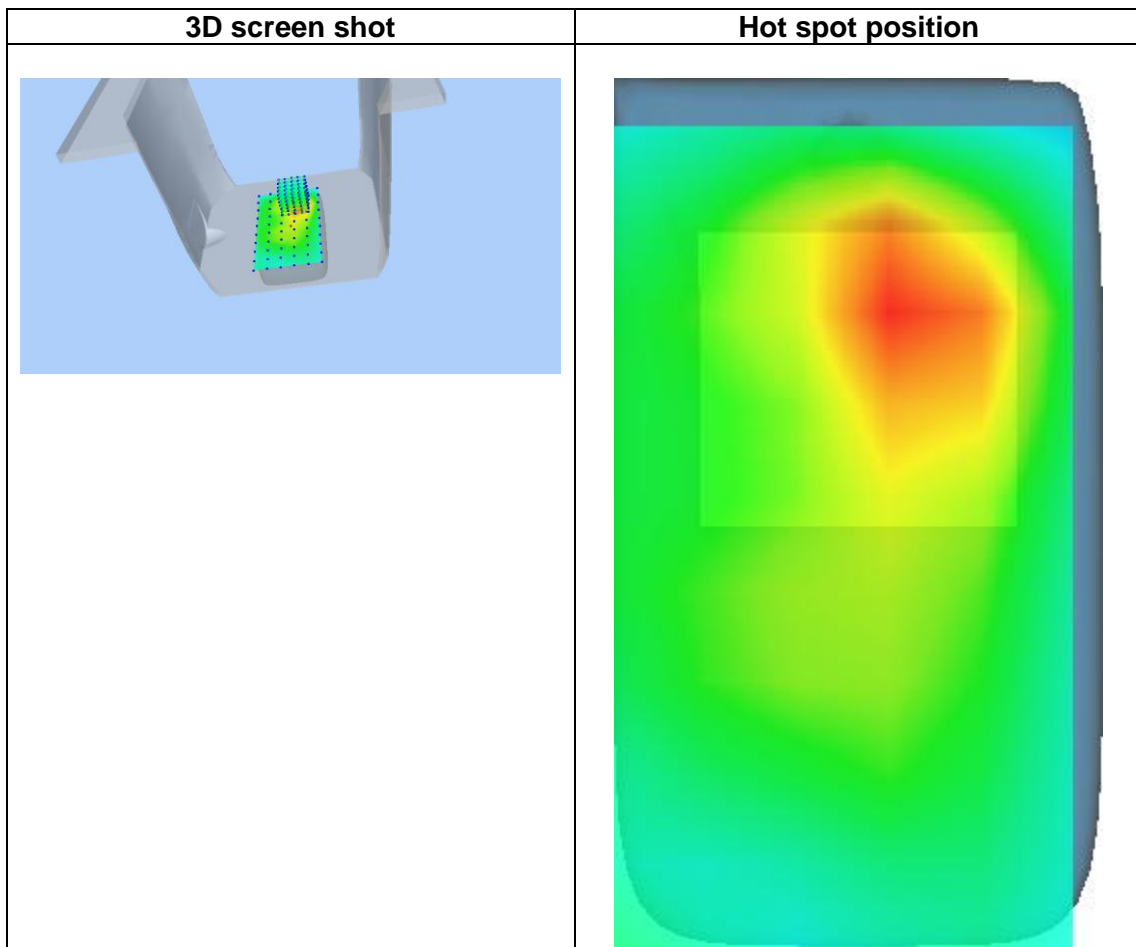
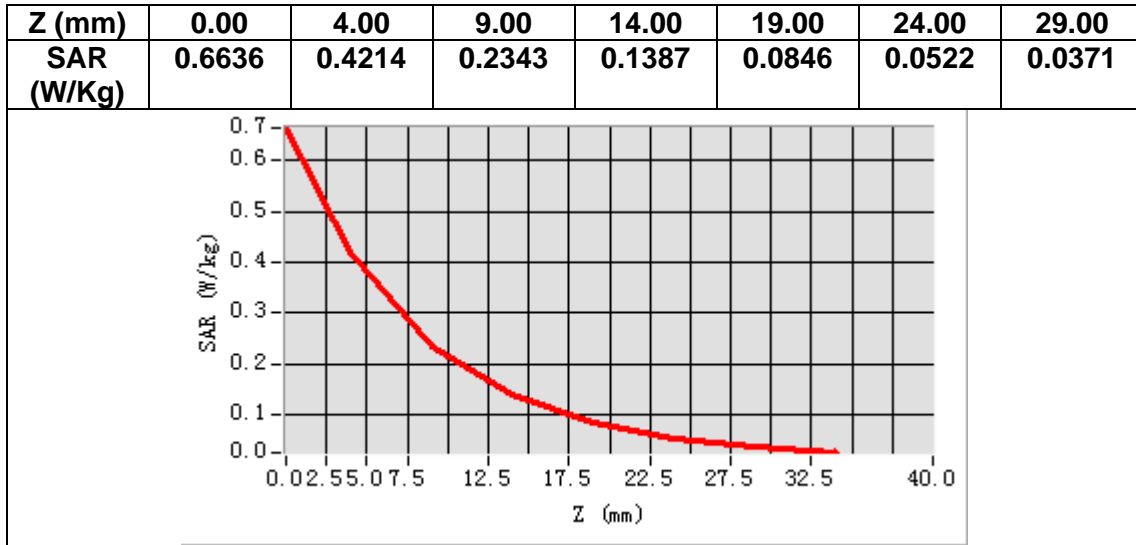
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	1880.000000
<b>Relative permittivity (real part)</b>	39.200699
<b>Relative permittivity (imaginary part)</b>	13.839800
<b>Conductivity (S/m)</b>	1.445490
<b>Variation (%)</b>	-2.410000



**Maximum location: X=7.00, Y=33.00**  
**SAR Peak: 0.70 W/kg**

<b>SAR 10g (W/Kg)</b>	0.219233
<b>SAR 1g (W/Kg)</b>	0.418879





# MEASUREMENT 5

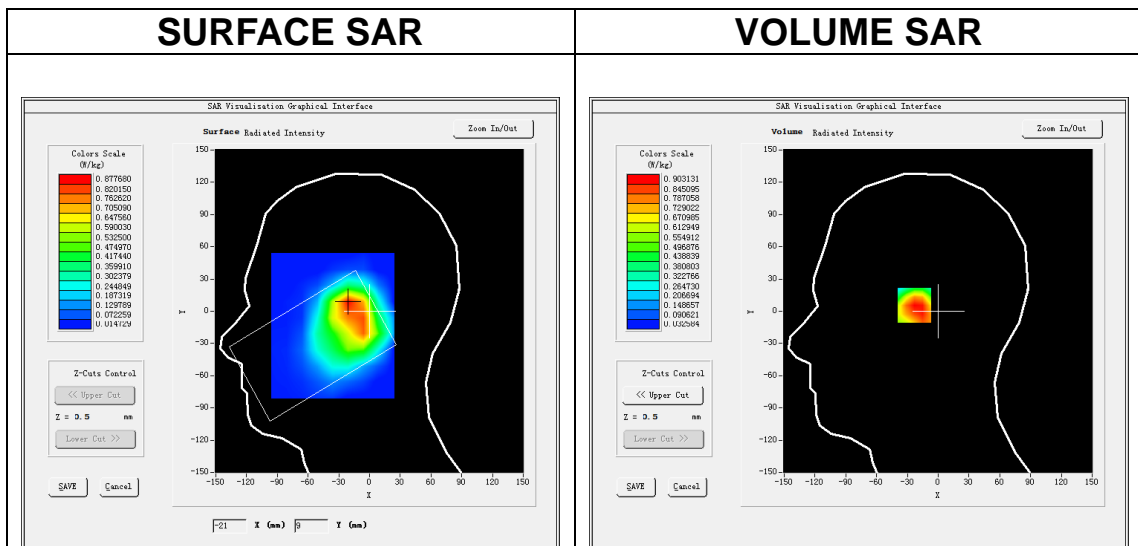
Date of measurement: 23/11/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<b>Phantom</b>	<u>Left head</u>
<b>Device Position</b>	<u>Cheek</u>
<b>Band</b>	<u>Band2 WCDMA1900</u>
<b>Channels</b>	<u>Low</u>
<b>Signal</b>	<u>WCDMA (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>2.63</u>

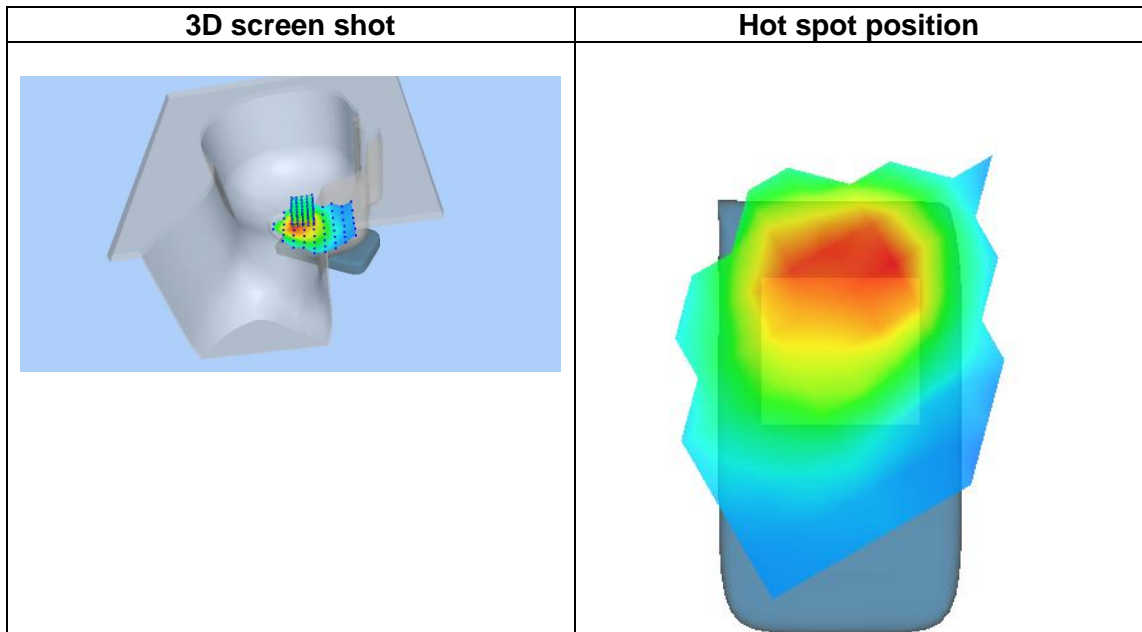
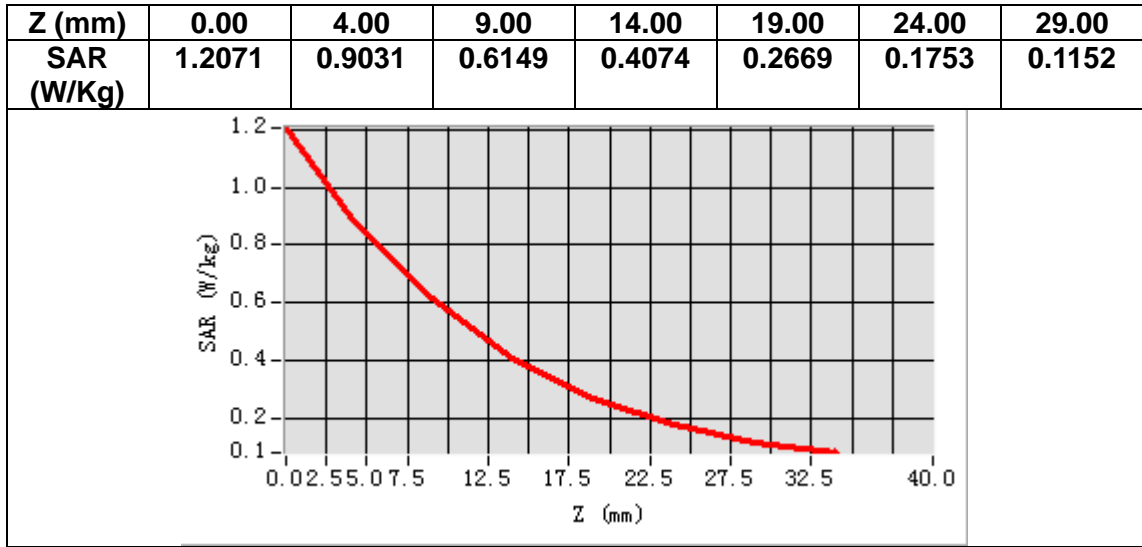
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	1852.400000
<b>Relative permittivity (real part)</b>	39.335320
<b>Relative permittivity (imaginary part)</b>	13.881080
<b>Conductivity (S/m)</b>	1.428517
<b>Variation (%)</b>	-0.240000



**Maximum location: X=-20.00, Y=6.00**  
**SAR Peak: 1.30 W/kg**

<b>SAR 10g (W/Kg)</b>	0.546699
<b>SAR 1g (W/Kg)</b>	0.885738



# MEASUREMENT 6

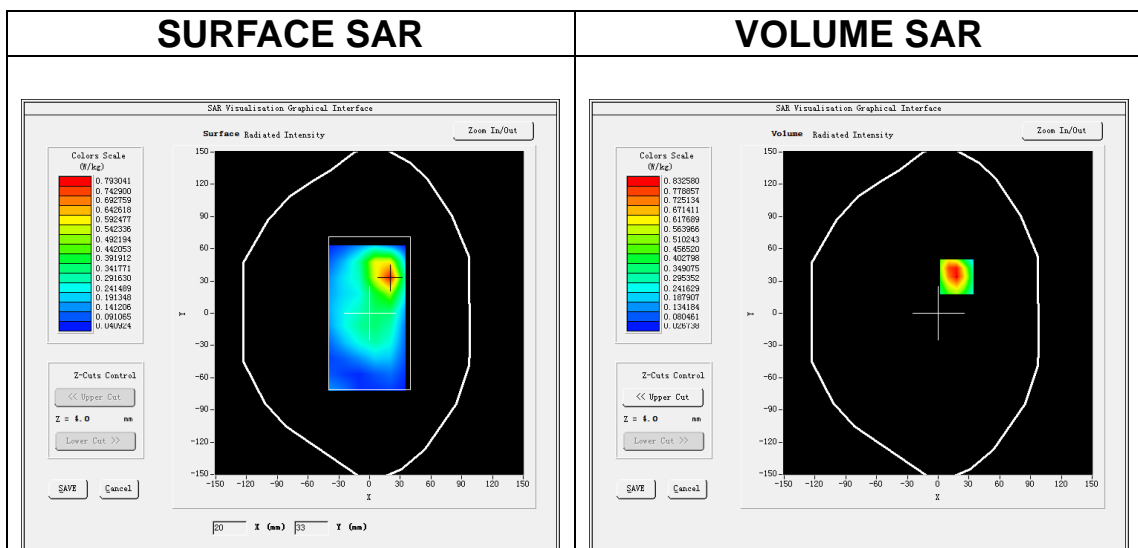
Date of measurement: 23/11/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Body</u>
<b>Band</b>	<u>Band2 WCDMA1900</u>
<b>Channels</b>	<u>Low</u>
<b>Signal</b>	<u>WCDMA (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>2.63</u>

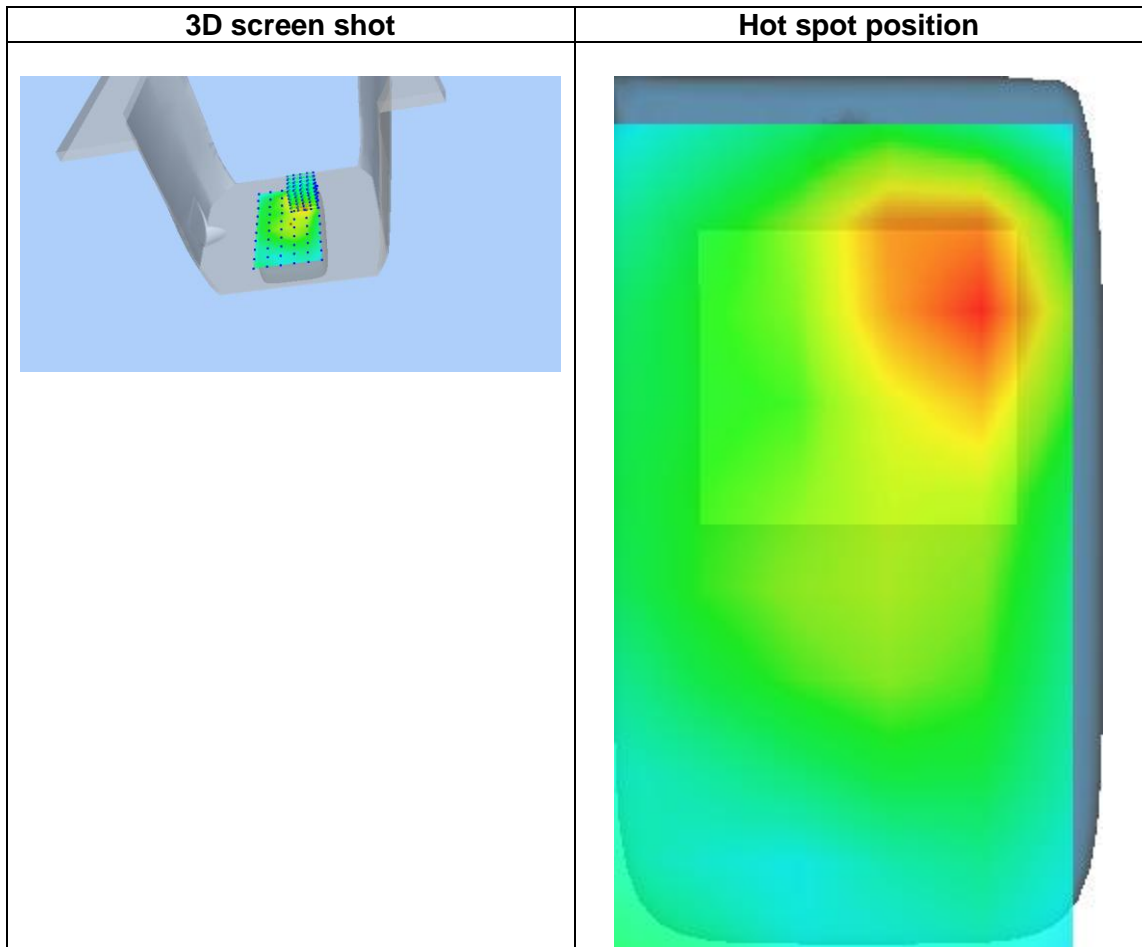
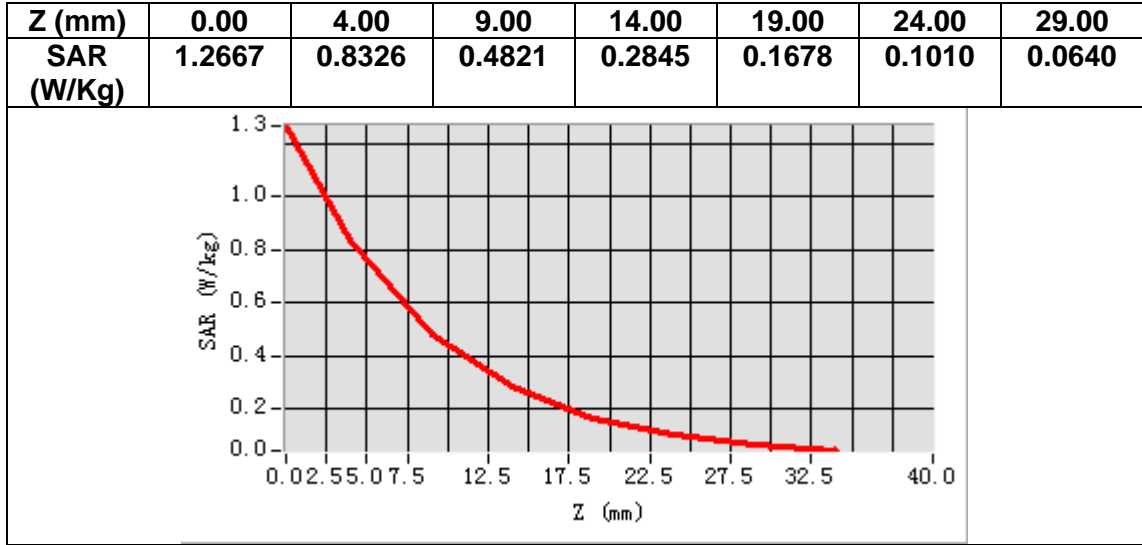
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	1852.400000
<b>Relative permittivity (real part)</b>	39.335320
<b>Relative permittivity (imaginary part)</b>	13.881080
<b>Conductivity (S/m)</b>	1.428517
<b>Variation (%)</b>	-0.500000



**Maximum location: X=18.00, Y=34.00**  
**SAR Peak: 1.37 W/kg**

<b>SAR 10g (W/Kg)</b>	0.436647
<b>SAR 1g (W/Kg)</b>	0.824181



# MEASUREMENT 7

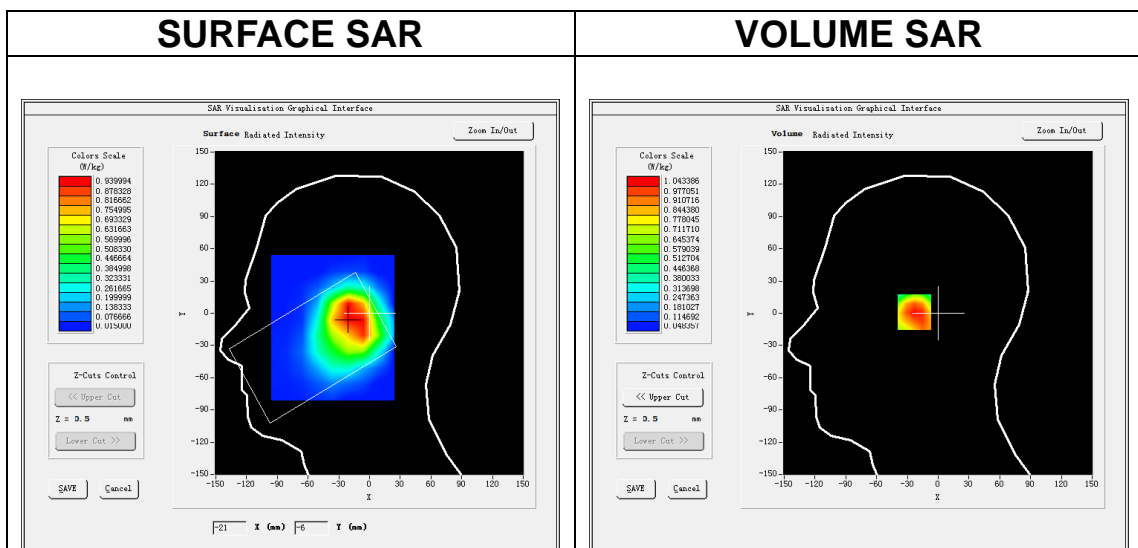
Date of measurement: 18/11/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<b>Phantom</b>	<u>Left head</u>
<b>Device Position</b>	<u>Cheek</u>
<b>Band</b>	<u>Band4 WCDMA1700</u>
<b>Channels</b>	<u>High</u>
<b>Signal</b>	<u>WCDMA (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>2.45</u>

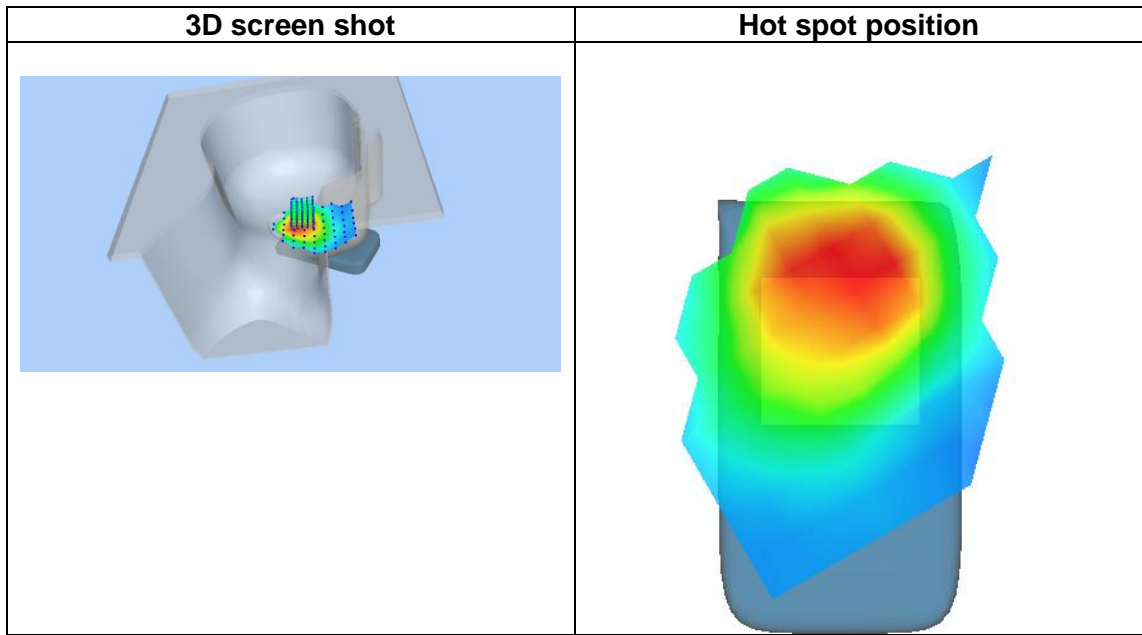
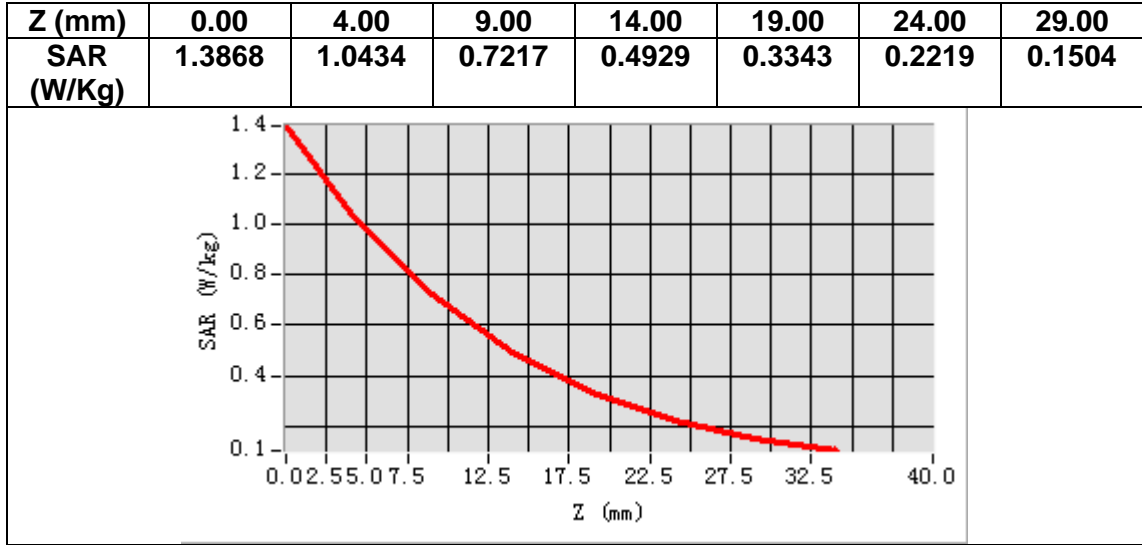
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	1752.600000
<b>Relative permittivity (real part)</b>	40.090382
<b>Relative permittivity (imaginary part)</b>	14.006729
<b>Conductivity (S/m)</b>	1.363322
<b>Variation (%)</b>	-0.150000



**Maximum location: X=-19.00, Y=1.00**  
**SAR Peak: 1.45 W/kg**

<b>SAR 10g (W/Kg)</b>	0.638426
<b>SAR 1g (W/Kg)</b>	1.003960



# MEASUREMENT 8

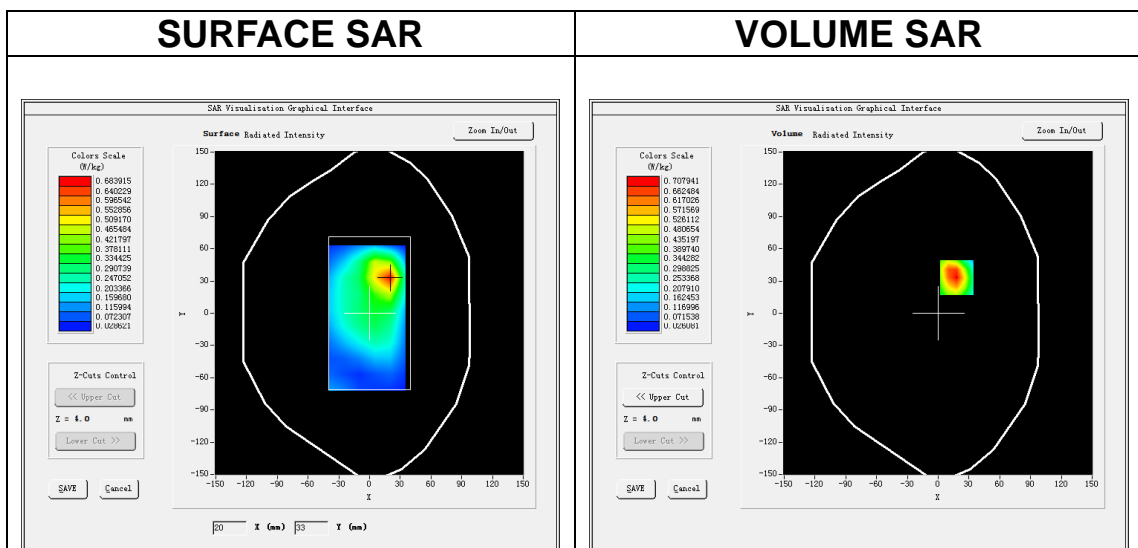
Date of measurement: 18/11/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Body</u>
<b>Band</b>	<u>Band4 WCDMA1700</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>WCDMA (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>2.45</u>

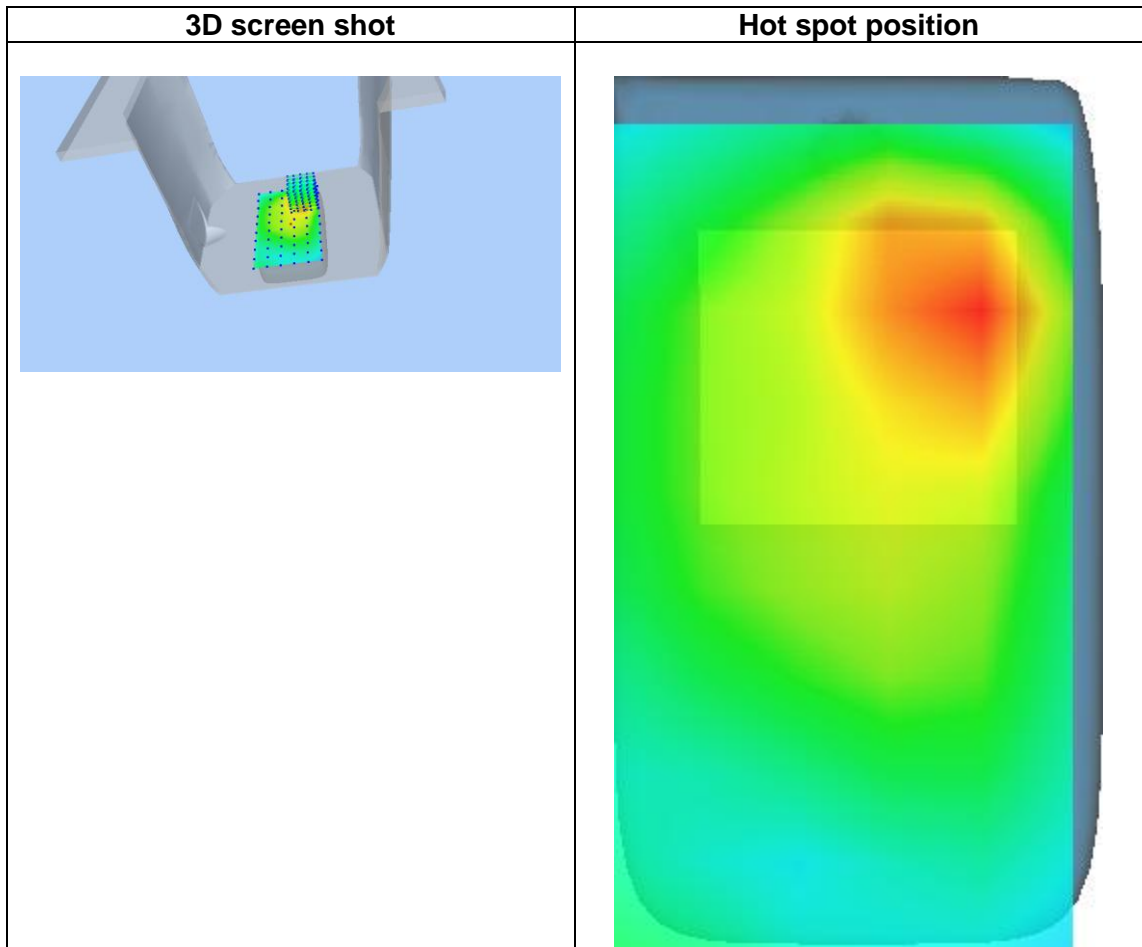
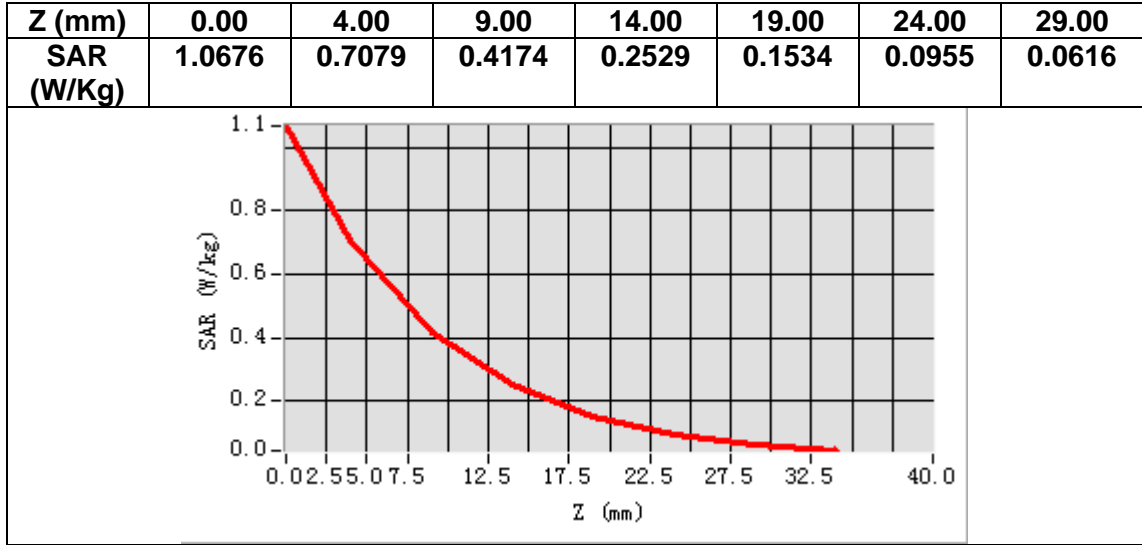
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	1732.600000
<b>Relative permittivity (real part)</b>	40.220680
<b>Relative permittivity (imaginary part)</b>	13.996029
<b>Conductivity (S/m)</b>	1.346729
<b>Variation (%)</b>	-0.620000



**Maximum location: X=18.00, Y=33.00**  
**SAR Peak: 1.13 W/kg**

<b>SAR 10g (W/Kg)</b>	0.373602
<b>SAR 1g (W/Kg)</b>	0.682047





# MEASUREMENT 9

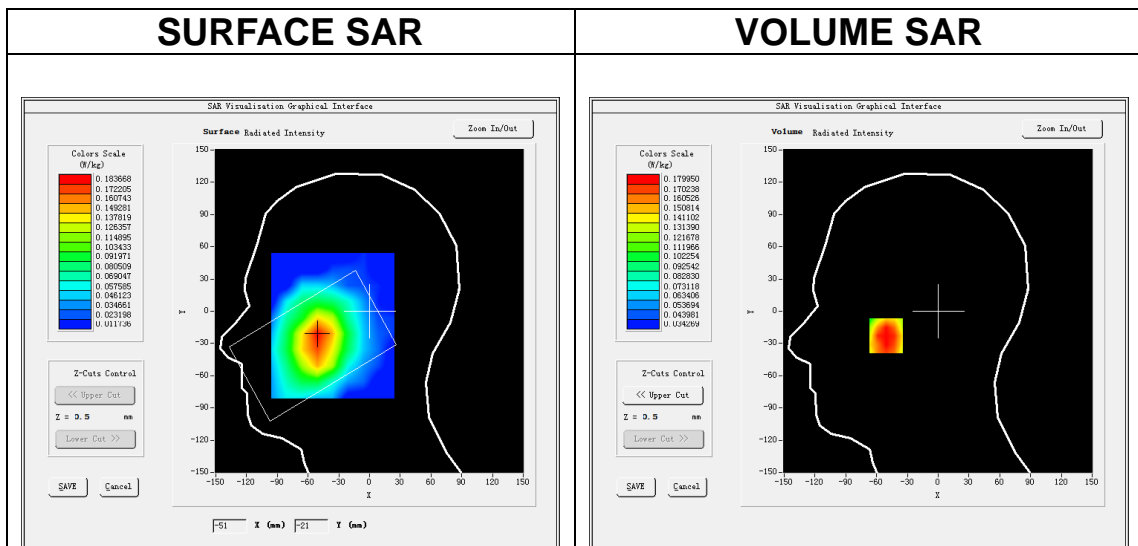
Date of measurement: 24/11/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<b>Phantom</b>	<u>Left head</u>
<b>Device Position</b>	<u>Cheek</u>
<b>Band</b>	<u>Band5_WCDMA850</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>WCDMA (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>2.32</u>

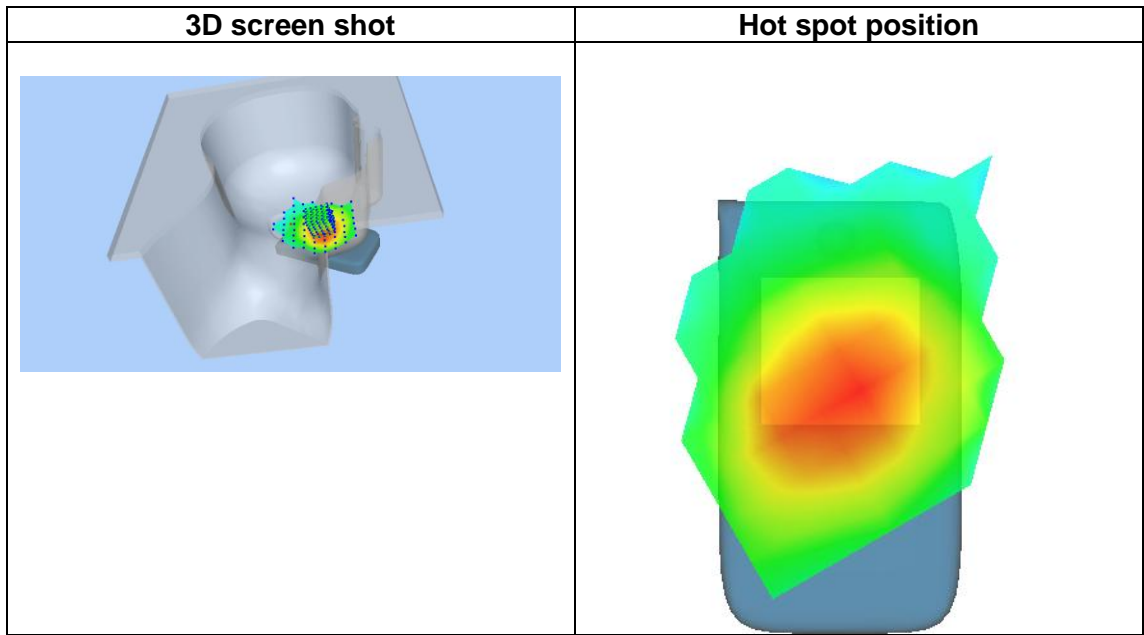
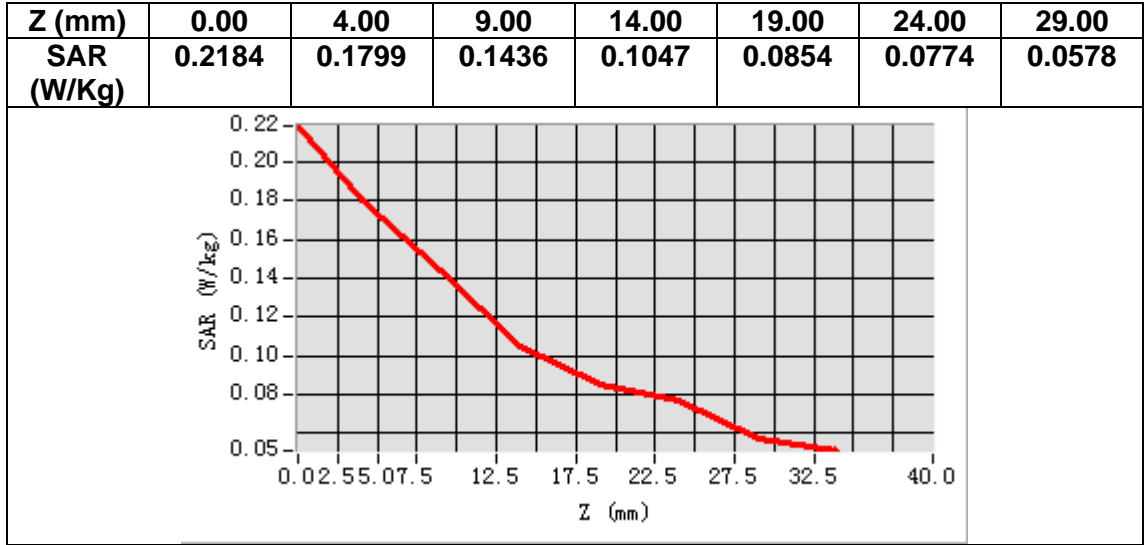
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	836.400000
<b>Relative permittivity (real part)</b>	41.562759
<b>Relative permittivity (imaginary part)</b>	19.441196
<b>Conductivity (S/m)</b>	0.903368
<b>Variation (%)</b>	-1.980000



**Maximum location: X=-51.00, Y=-23.00**  
**SAR Peak: 0.27 W/kg**

<b>SAR 10g (W/Kg)</b>	0.133655
<b>SAR 1g (W/Kg)</b>	0.184578



# MEASUREMENT 10

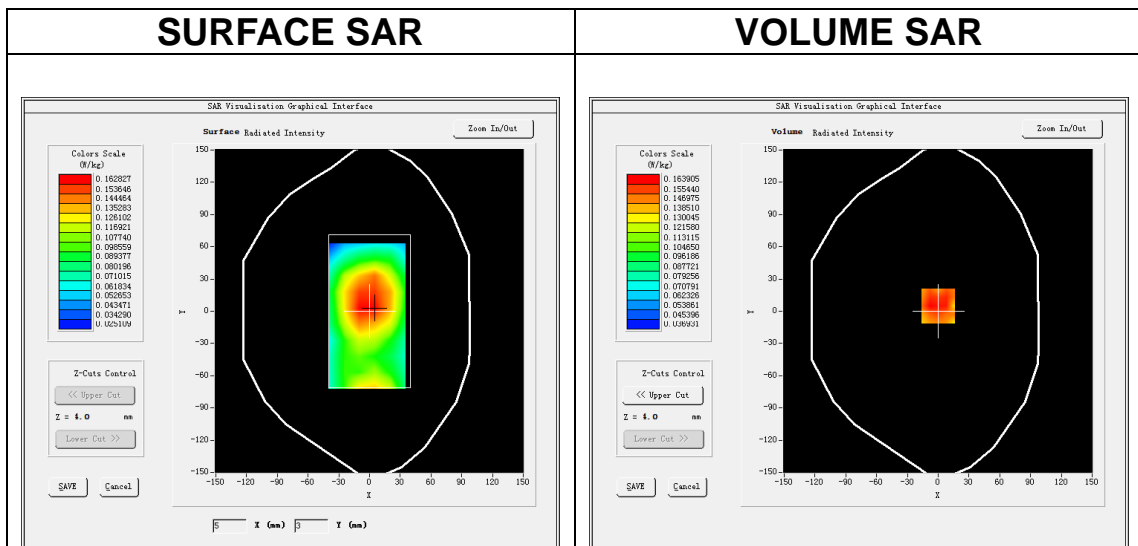
Date of measurement: 24/11/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Body</u>
<b>Band</b>	<u>Band5_WCDMA850</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>WCDMA (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>2.32</u>

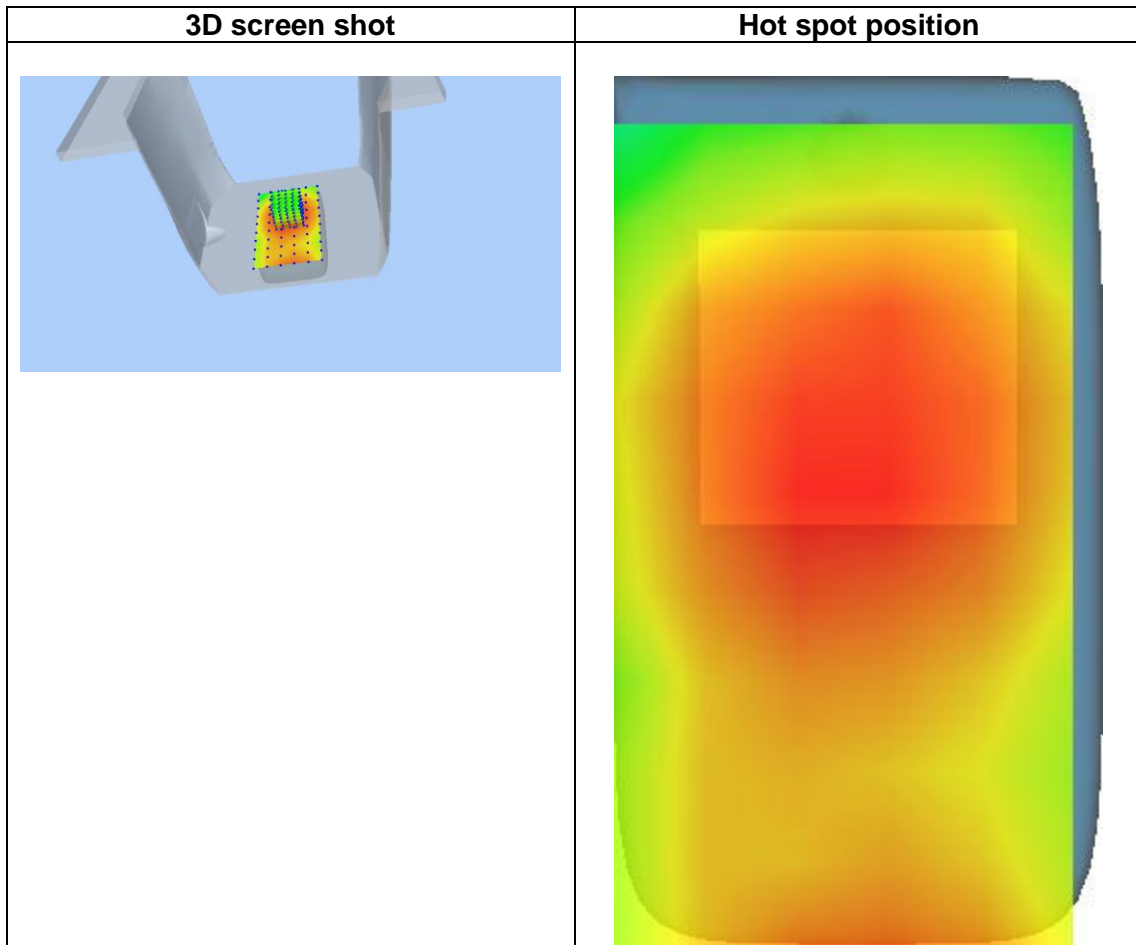
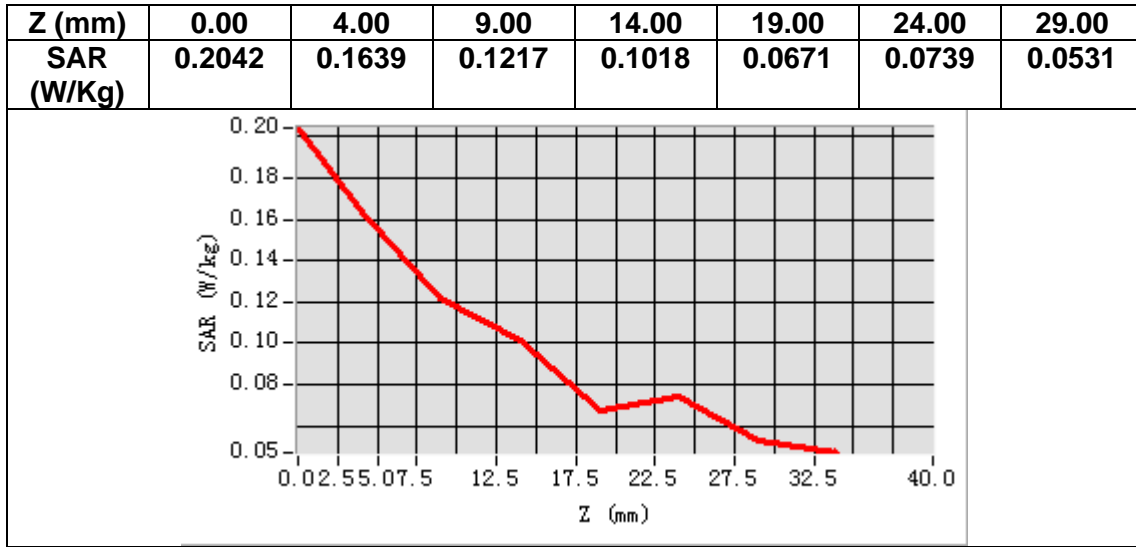
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	836.400000
<b>Relative permittivity (real part)</b>	41.562759
<b>Relative permittivity (imaginary part)</b>	19.441196
<b>Conductivity (S/m)</b>	0.903368
<b>Variation (%)</b>	4.260000



**Maximum location: X=0.00, Y=5.00**  
**SAR Peak: 0.20 W/kg**

<b>SAR 10g (W/Kg)</b>	0.119395
<b>SAR 1g (W/Kg)</b>	0.156230



# MEASUREMENT 11

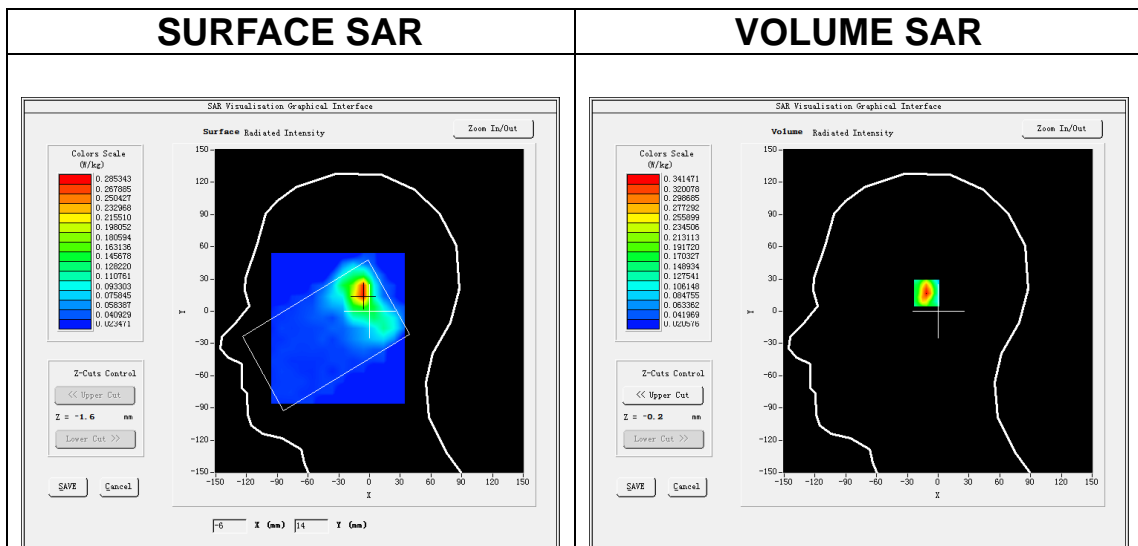
Date of measurement: 21/11/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=10mm dy=10mm, h= 2.00 mm</u>
<b>ZoomScan</b>	<u>7x7x12,dx=4mm dy=4mm dz=2mm</u>
<b>Phantom</b>	<u>Left head</u>
<b>Device Position</b>	<u>Cheek</u>
<b>Band</b>	<u>IEEE 802.11ac U-NII</u>
<b>Channels</b>	<u>Low</u>
<b>Signal</b>	<u>IEEE802.11ac (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>2.07</u>

## B. SAR Measurement Results

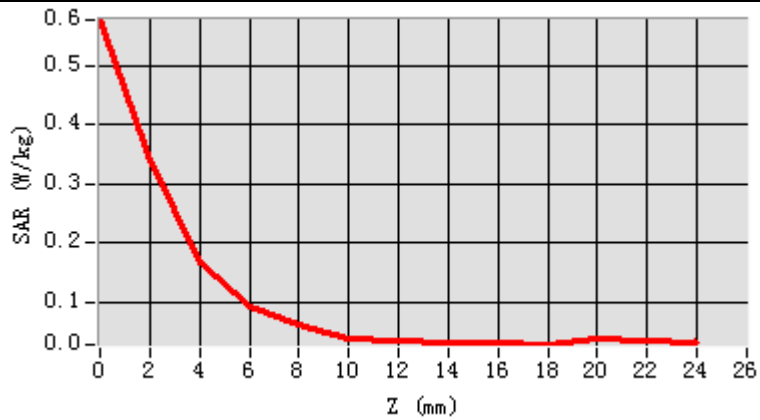
<b>Frequency (MHz)</b>	5190.000000
<b>Relative permittivity (real part)</b>	35.425330
<b>Relative permittivity (imaginary part)</b>	15.384935
<b>Conductivity (S/m)</b>	4.435990
<b>Variation (%)</b>	2.030000

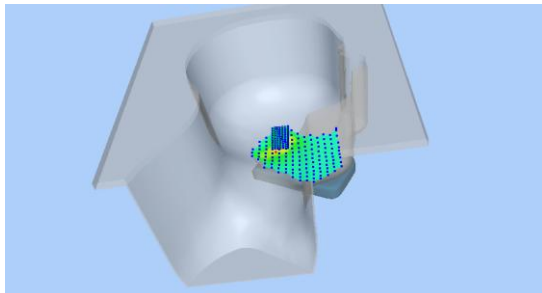
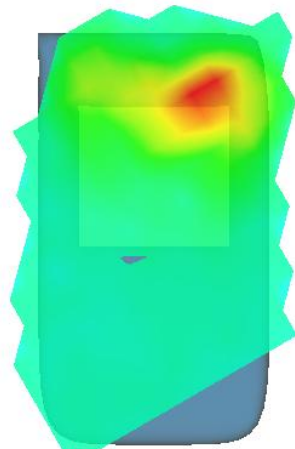


**Maximum location: X=-8.00, Y=18.00**  
**SAR Peak: 0.91 W/kg**

<b>SAR 10g (W/Kg)</b>	0.124463
<b>SAR 1g (W/Kg)</b>	0.321458

Z (m)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
SAR (W/Kg)	0.5762	0.3413	0.1659	0.0925	0.0617	0.0387	0.0337	0.0330	0.0337	0.0286	0.0379	0.0341



3D screen shot	Hot spot position
	

# MEASUREMENT 12

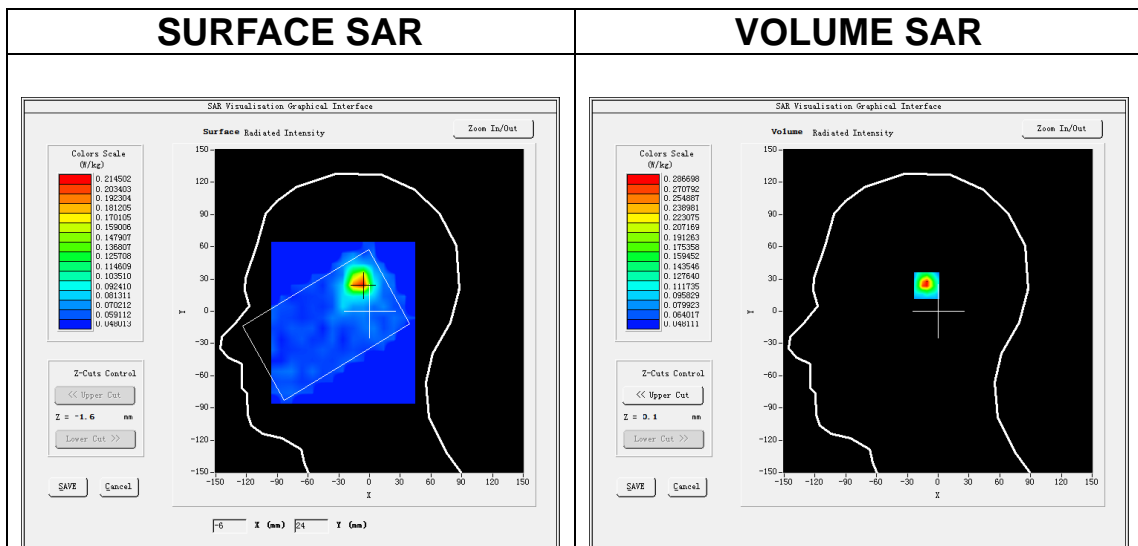
Date of measurement: 20/11/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=10mm dy=10mm, h= 2.00 mm</u>
<b>ZoomScan</b>	<u>7x7x12,dx=4mm dy=4mm dz=2mm</u>
<b>Phantom</b>	<u>Left head</u>
<b>Device Position</b>	<u>Cheek</u>
<b>Band</b>	<u>IEEE 802.11n U-NII</u>
<b>Channels</b>	<u>Low</u>
<b>Signal</b>	<u>IEEE802.11n (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>2.04</u>

## B. SAR Measurement Results

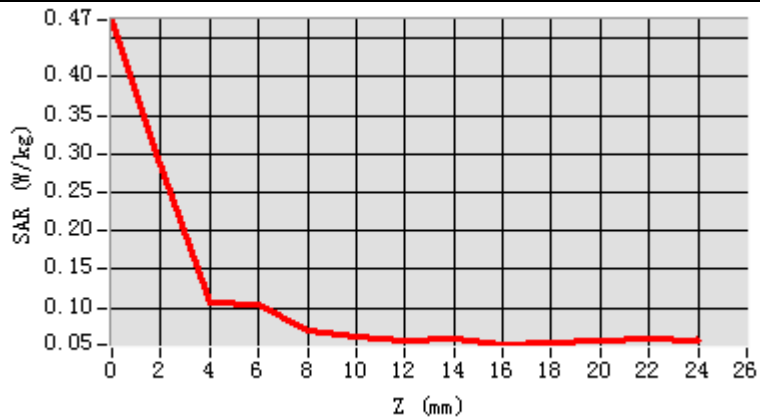
<b>Frequency (MHz)</b>	5755.000000
<b>Relative permittivity (real part)</b>	35.225311
<b>Relative permittivity (imaginary part)</b>	16.507688
<b>Conductivity (S/m)</b>	5.277875
<b>Variation (%)</b>	4.600000

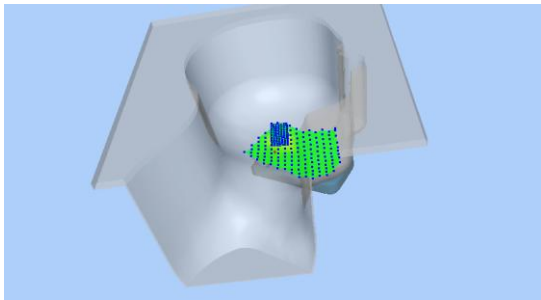
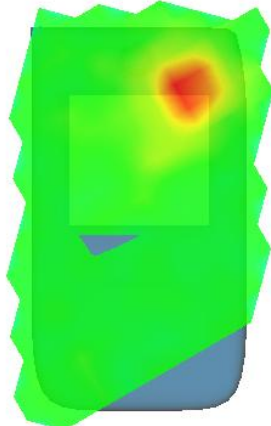


**Maximum location: X=-9.00, Y=26.00**  
**SAR Peak: 0.78 W/kg**

<b>SAR 10g (W/Kg)</b>	0.111950
<b>SAR 1g (W/Kg)</b>	0.269935

<b>Z (m m)</b>	<b>0.00</b>	<b>2.00</b>	<b>4.00</b>	<b>6.00</b>	<b>8.00</b>	<b>10.0</b>	<b>12.0</b>	<b>14.0</b>	<b>16.0</b>	<b>18.0</b>	<b>20.0</b>	<b>22.0</b>
<b>SAR (W/ Kg)</b>	<b>0.47 41</b>	<b>0.28 67</b>	<b>0.10 56</b>	<b>0.10 45</b>	<b>0.06 94</b>	<b>0.06 36</b>	<b>0.05 64</b>	<b>0.06 02</b>	<b>0.05 20</b>	<b>0.05 53</b>	<b>0.05 69</b>	<b>0.06 02</b>



3D screen shot	Hot spot position
	



# MEASUREMENT 13

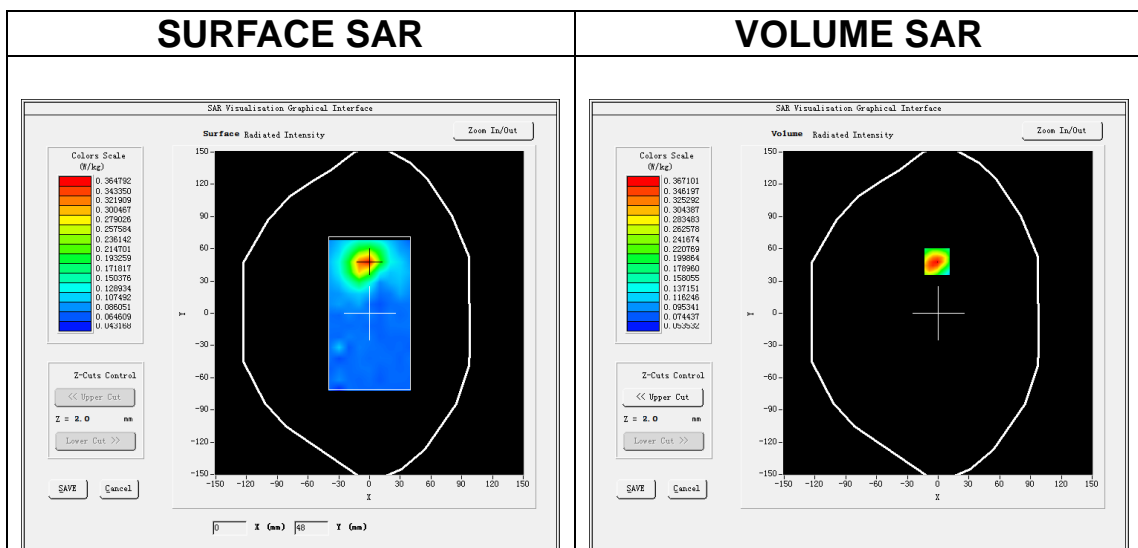
Date of measurement: 21/11/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=10mm dy=10mm, h= 2.00 mm</u>
<b>ZoomScan</b>	<u>7x7x12,dx=4mm dy=4mm dz=2mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Body</u>
<b>Band</b>	<u>IEEE 802.11ac U-NII</u>
<b>Channels</b>	<u>Low</u>
<b>Signal</b>	<u>IEEE802.11ac (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>2.07</u>

## B. SAR Measurement Results

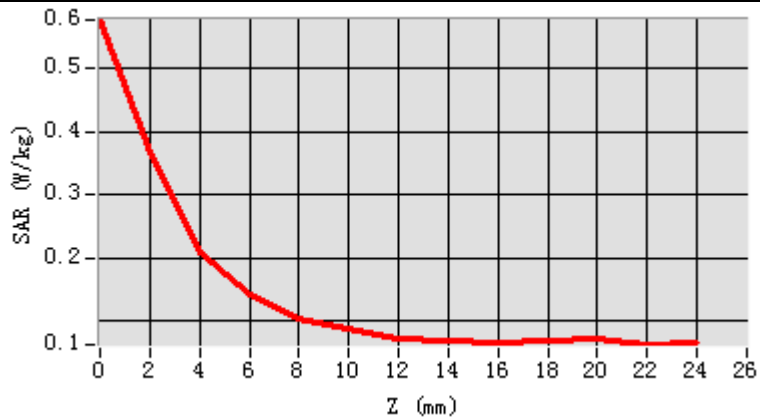
<b>Frequency (MHz)</b>	5190.000000
<b>Relative permittivity (real part)</b>	35.425330
<b>Relative permittivity (imaginary part)</b>	15.384935
<b>Conductivity (S/m)</b>	4.435990
<b>Variation (%)</b>	-1.000000



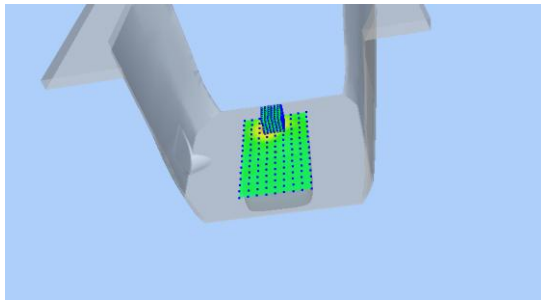
**Maximum location: X=-1.00, Y=48.00**  
**SAR Peak: 0.60 W/kg**

<b>SAR 10g (W/Kg)</b>	0.131557
<b>SAR 1g (W/Kg)</b>	0.236955

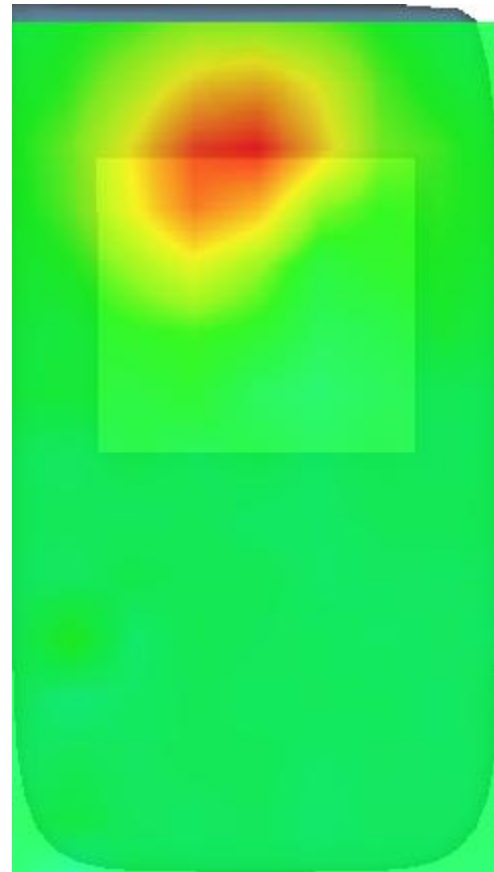
<b>Z (m)</b>	<b>0.00</b>	<b>2.00</b>	<b>4.00</b>	<b>6.00</b>	<b>8.00</b>	<b>10.0</b>	<b>12.0</b>	<b>14.0</b>	<b>16.0</b>	<b>18.0</b>	<b>20.0</b>	<b>22.0</b>
<b>SAR (W/Kg)</b>	<b>0.5770</b>	<b>0.3671</b>	<b>0.2099</b>	<b>0.1412</b>	<b>0.1038</b>	<b>0.0878</b>	<b>0.0738</b>	<b>0.0698</b>	<b>0.0678</b>	<b>0.0680</b>	<b>0.0731</b>	<b>0.0631</b>



**3D screen shot**



**Hot spot position**



# MEASUREMENT 14

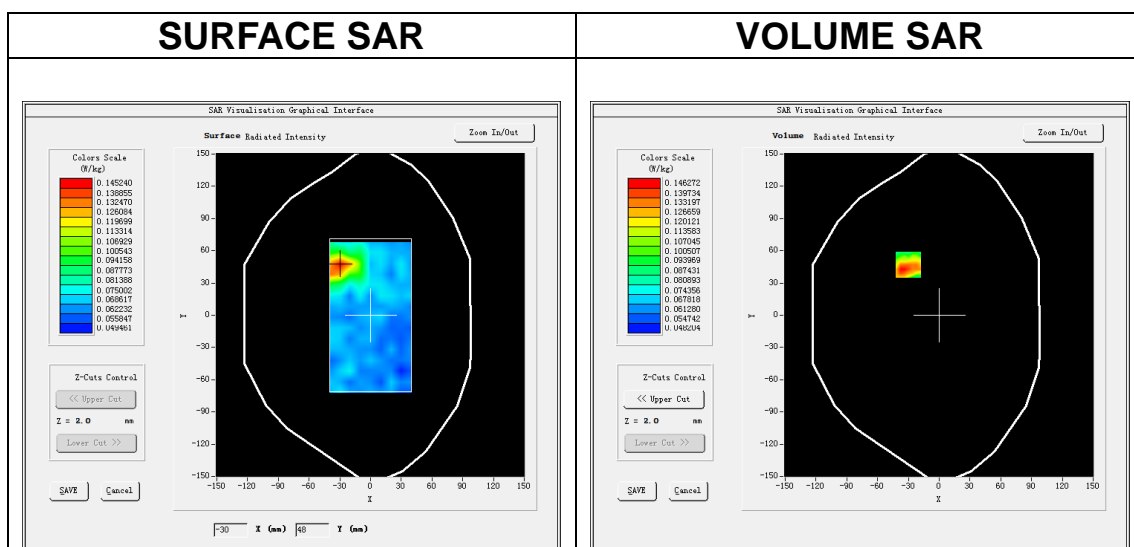
Date of measurement: 20/11/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=10mm dy=10mm, h= 2.00 mm</u>
<b>ZoomScan</b>	<u>7x7x12,dx=4mm dy=4mm dz=2mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Body</u>
<b>Band</b>	<u>IEEE 802.11n U-NII</u>
<b>Channels</b>	<u>Low</u>
<b>Signal</b>	<u>IEEE802.11n (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>2.04</u>

## B. SAR Measurement Results

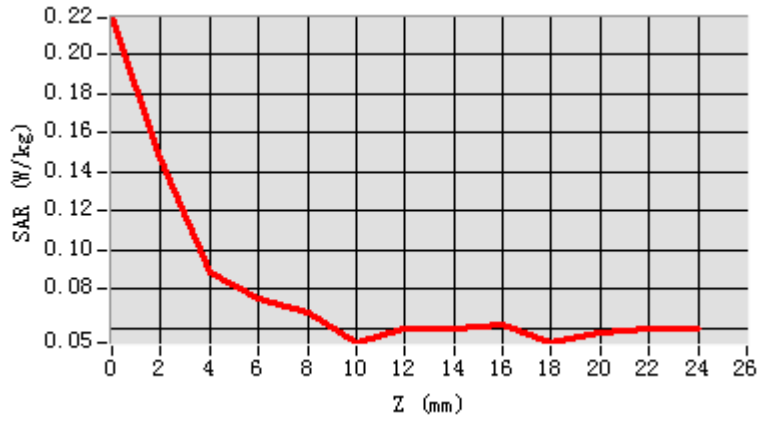
<b>Frequency (MHz)</b>	5755.000000
<b>Relative permittivity (real part)</b>	35.225311
<b>Relative permittivity (imaginary part)</b>	16.507688
<b>Conductivity (S/m)</b>	5.277875
<b>Variation (%)</b>	-0.770000



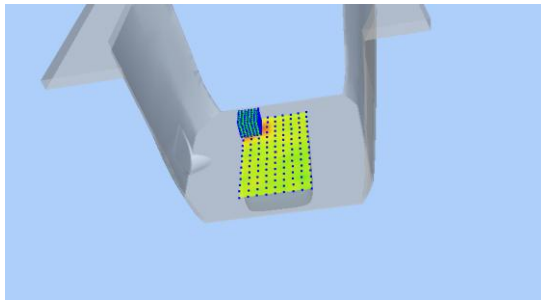
**Maximum location: X=-30.00, Y=47.00**  
**SAR Peak: 0.23 W/kg**

<b>SAR 10g (W/Kg)</b>	0.077062
<b>SAR 1g (W/Kg)</b>	0.107024

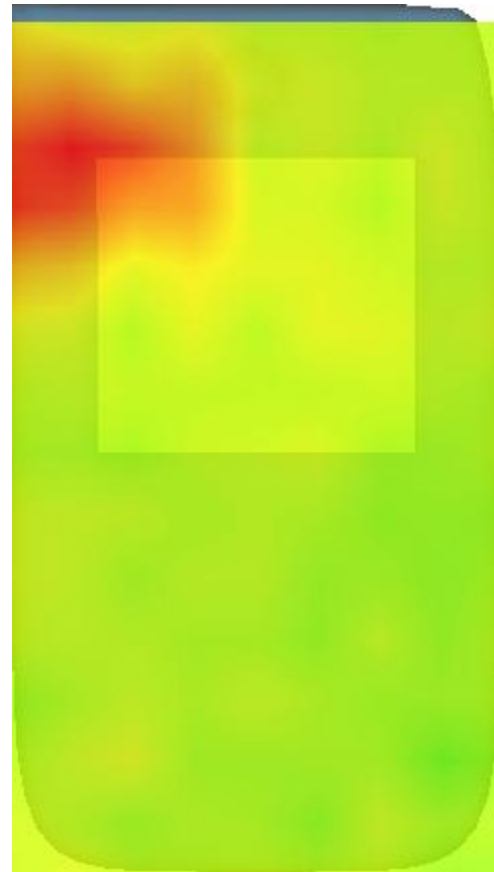
Z (m m)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	0.2185	0.1463	0.0884	0.0749	0.0675	0.0523	0.0592	0.0590	0.0617	0.0526	0.0571	0.0595



3D screen shot



Hot spot position



# MEASUREMENT 15

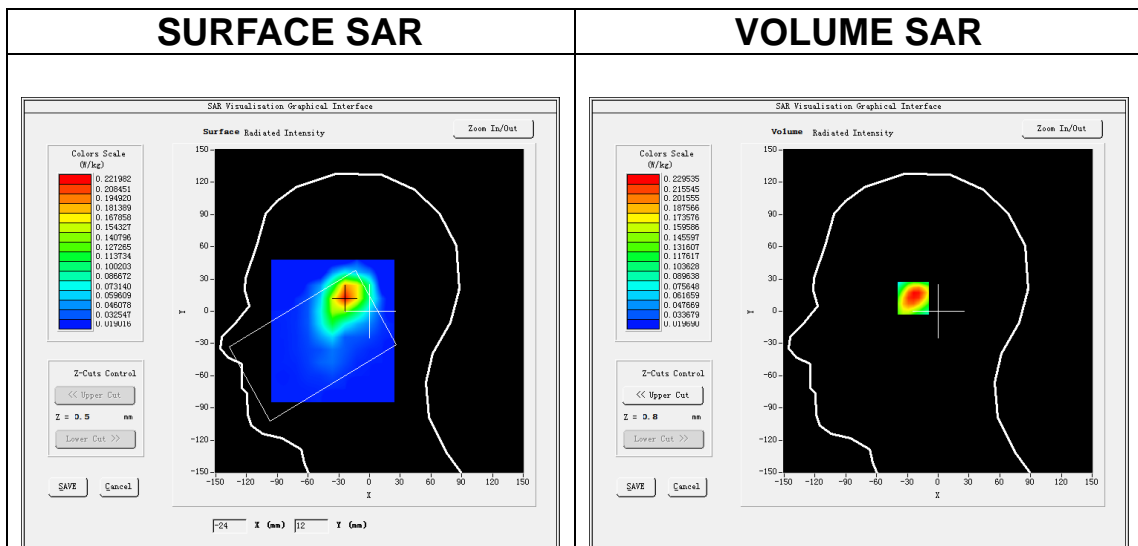
Date of measurement: 17/11/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
<b>Phantom</b>	<u>Left head</u>
<b>Device Position</b>	<u>Cheek</u>
<b>Band</b>	<u>IEEE 802.11b ISM</u>
<b>Channels</b>	<u>High</u>
<b>Signal</b>	<u>IEEE802.11b (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>2.85</u>

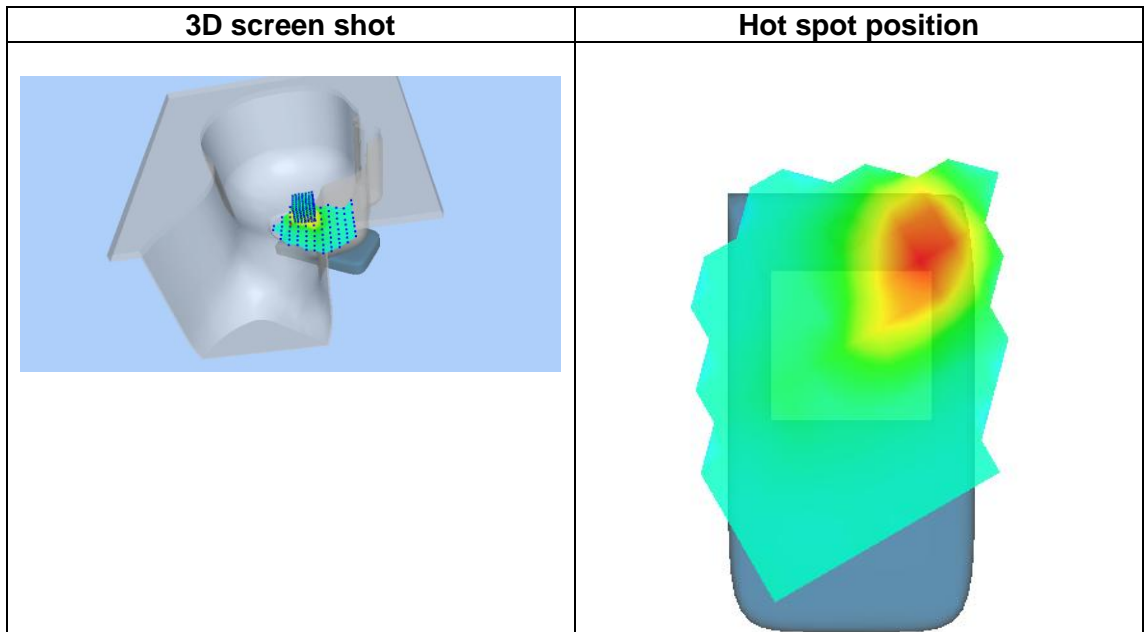
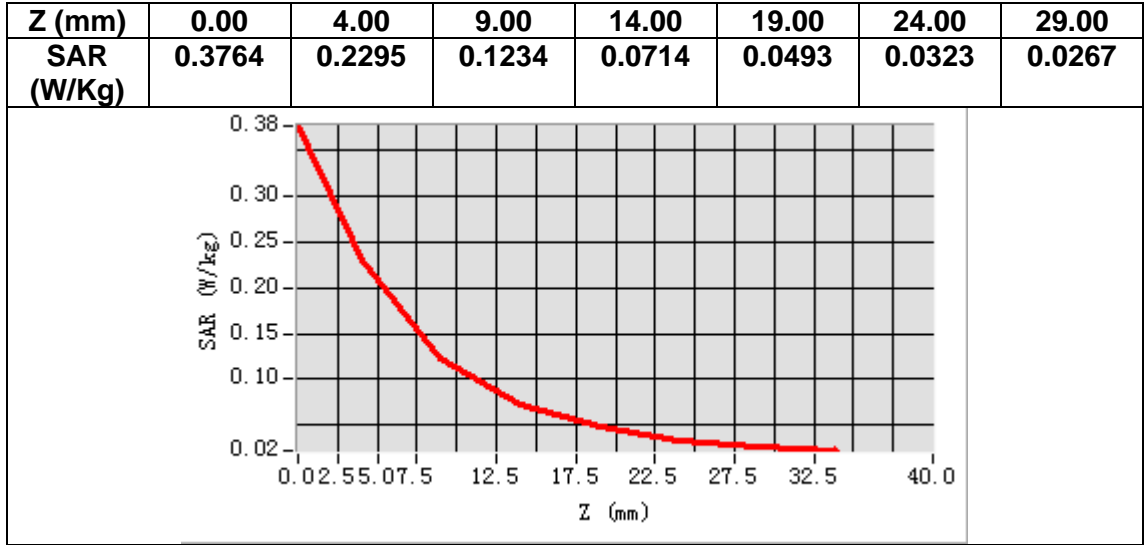
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	2462.000000
<b>Relative permittivity (real part)</b>	38.557112
<b>Relative permittivity (imaginary part)</b>	13.157452
<b>Conductivity (S/m)</b>	1.799647
<b>Variation (%)</b>	1.150000



**Maximum location: X=-23.00, Y=14.00**  
**SAR Peak: 0.37 W/kg**

<b>SAR 10g (W/Kg)</b>	0.121192
<b>SAR 1g (W/Kg)</b>	0.219662



# MEASUREMENT 16

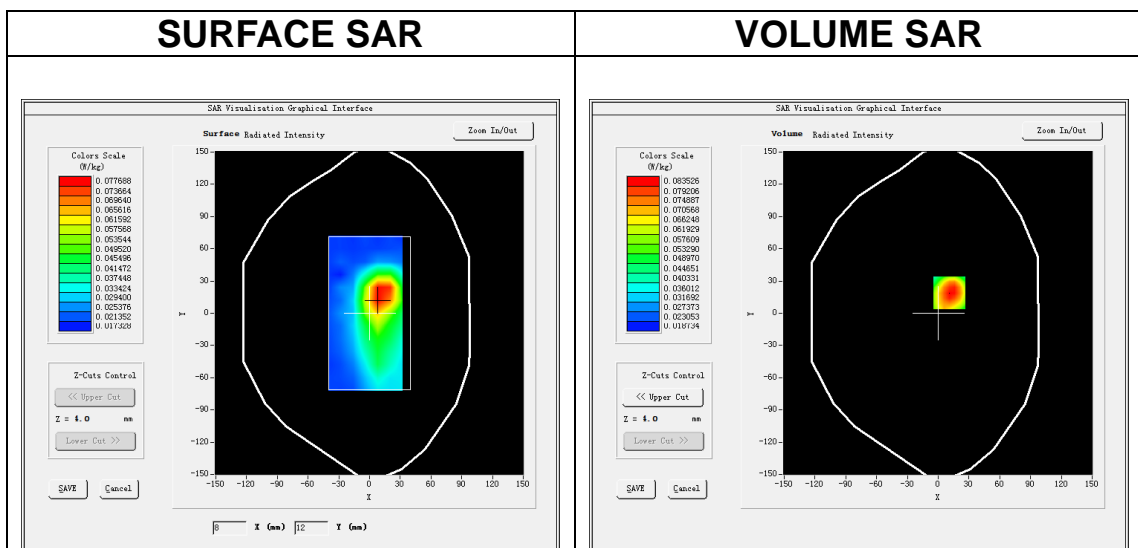
Date of measurement: 17/11/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Body</u>
<b>Band</b>	<u>IEEE 802.11b ISM</u>
<b>Channels</b>	<u>High</u>
<b>Signal</b>	<u>IEEE802.11b (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>2.85</u>

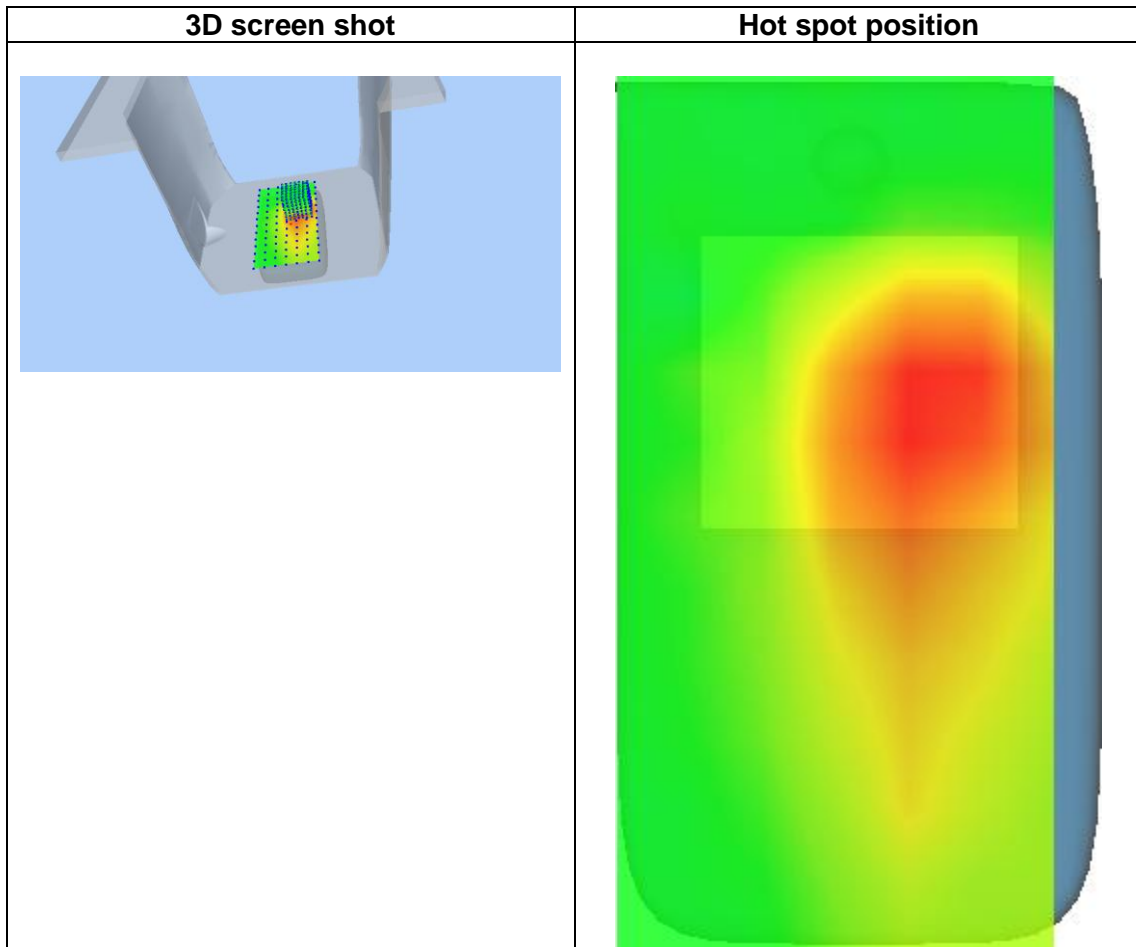
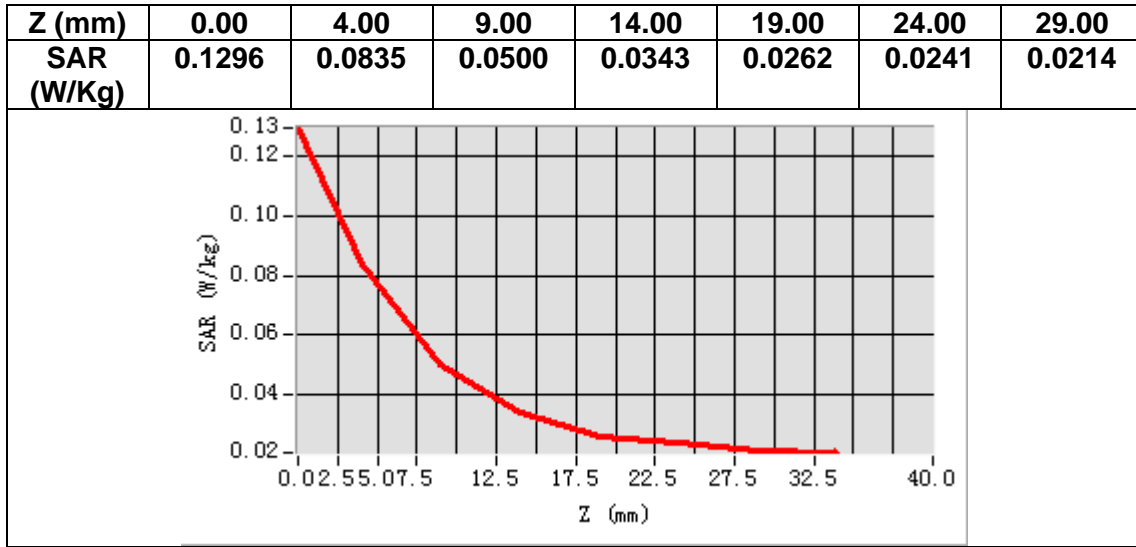
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	2462.000000
<b>Relative permittivity (real part)</b>	38.557112
<b>Relative permittivity (imaginary part)</b>	13.157452
<b>Conductivity (S/m)</b>	1.799647
<b>Variation (%)</b>	0.140000



**Maximum location: X=11.00, Y=19.00**  
**SAR Peak: 0.13 W/kg**

<b>SAR 10g (W/Kg)</b>	0.050692
<b>SAR 1g (W/Kg)</b>	0.080346





# MEASUREMENT 17

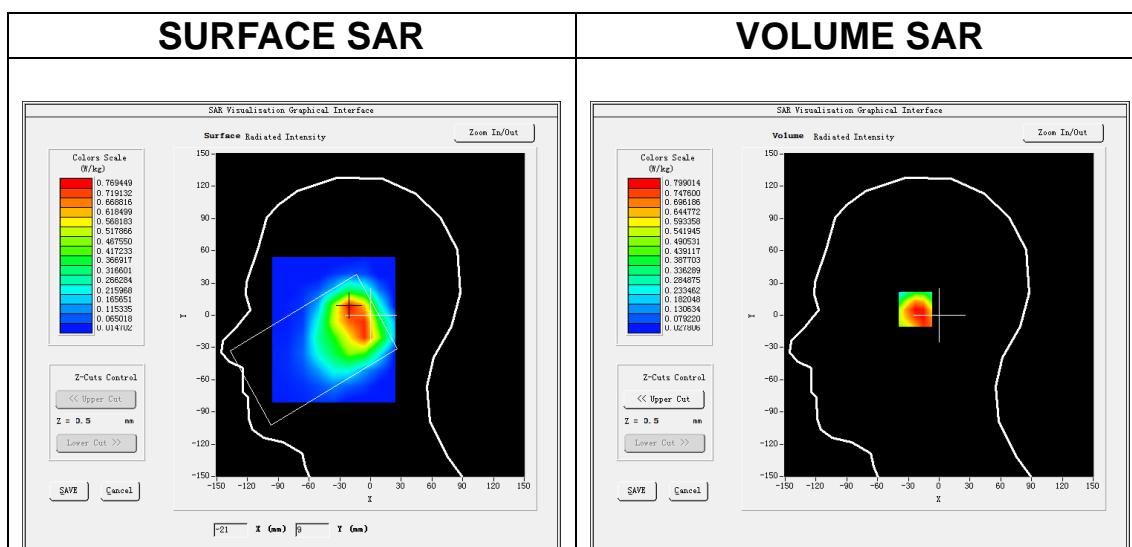
Date of measurement: 23/11/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<b>Phantom</b>	<u>Left head</u>
<b>Device Position</b>	<u>Cheek</u>
<b>Band</b>	<u>LTE band 2</u>
<b>Channels</b>	<u>High</u>
<b>Signal</b>	<u>LTE (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>2.63</u>

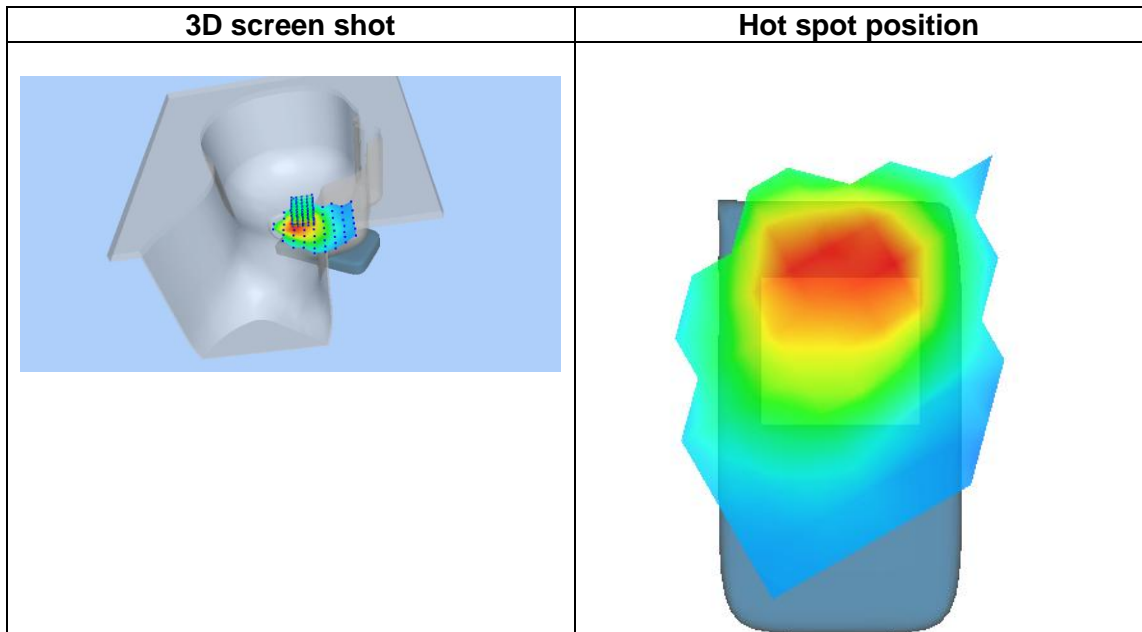
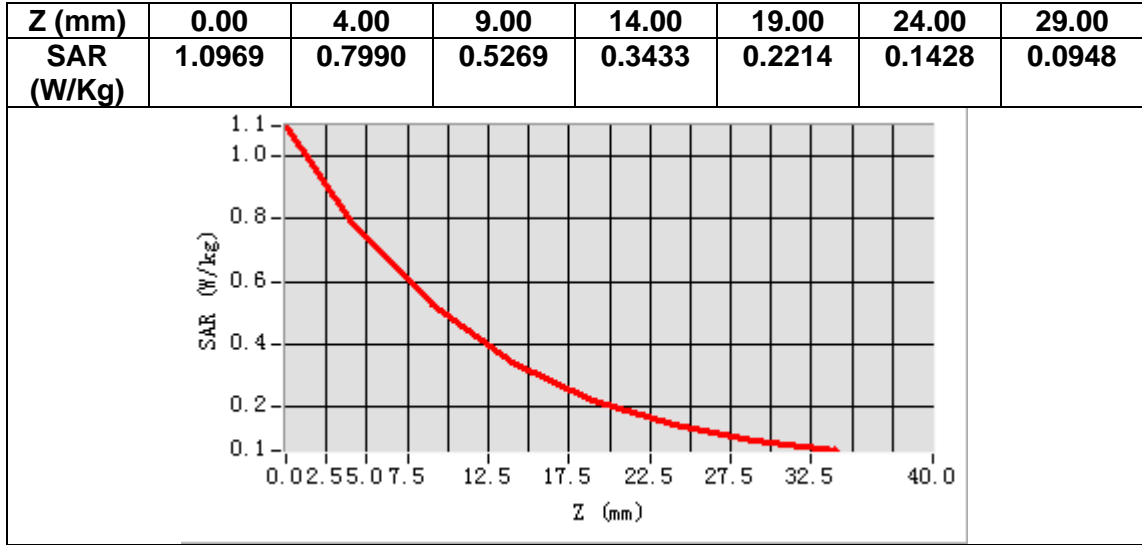
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	1900.000000
<b>Relative permittivity (real part)</b>	39.125400
<b>Relative permittivity (imaginary part)</b>	13.791900
<b>Conductivity (S/m)</b>	1.455812
<b>Variation (%)</b>	-0.890000



**Maximum location: X=-20.00, Y=6.00**  
**SAR Peak: 1.17 W/kg**

<b>SAR 10g (W/Kg)</b>	0.482419
<b>SAR 1g (W/Kg)</b>	0.795584



# MEASUREMENT 18

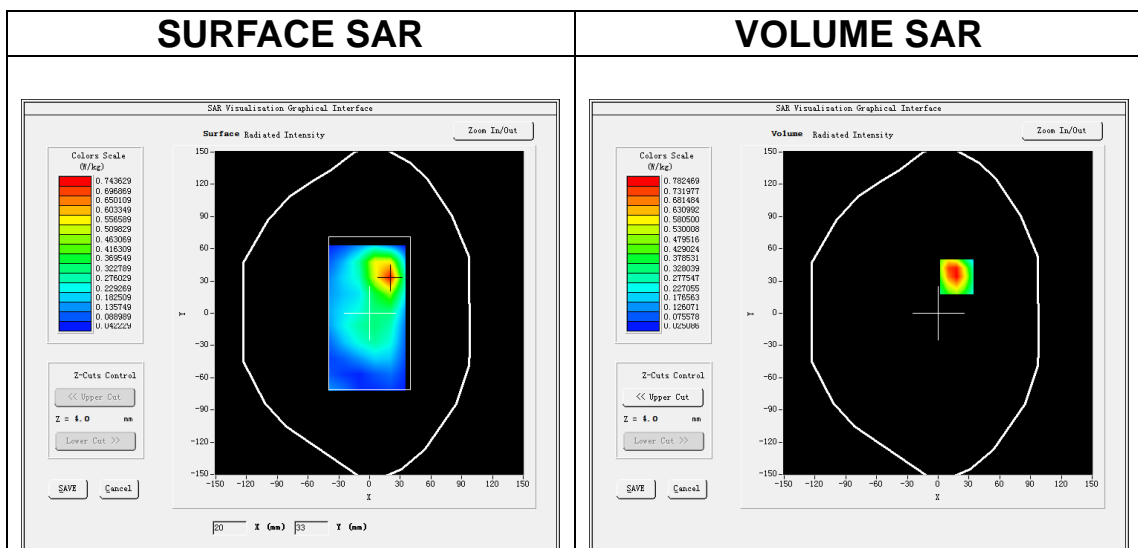
Date of measurement: 23/11/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Body</u>
<b>Band</b>	<u>LTE band 2</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>LTE (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>2.63</u>

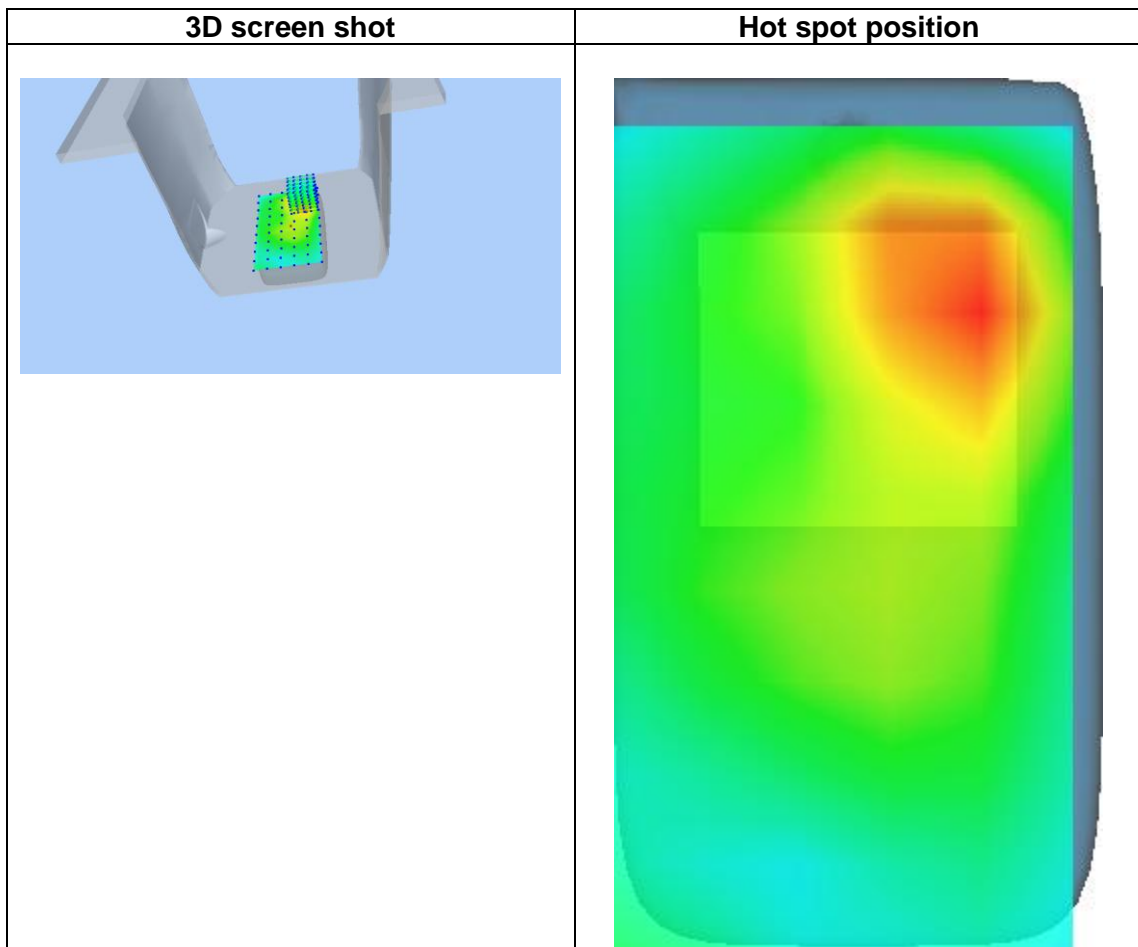
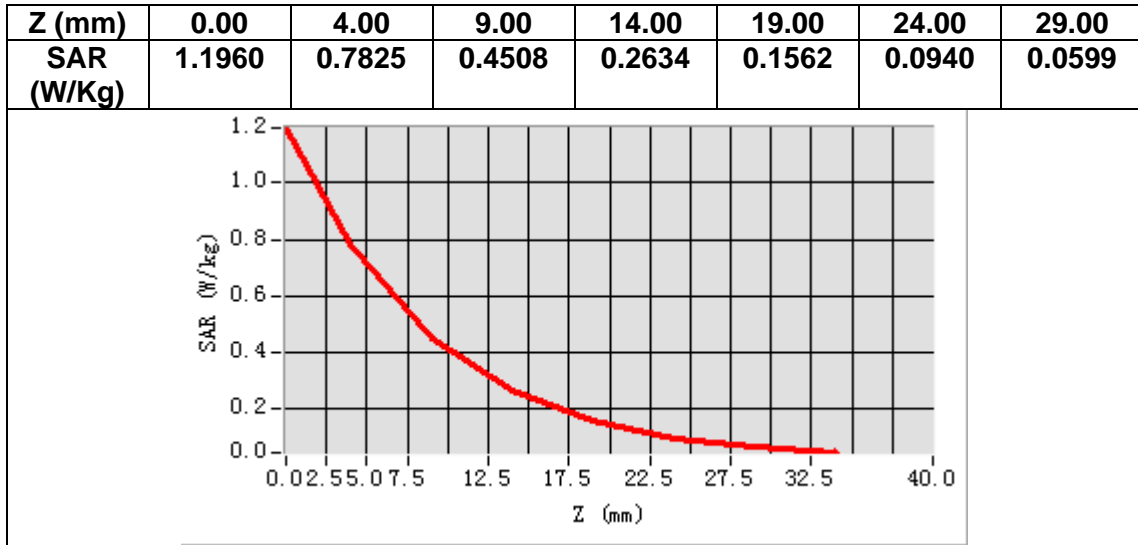
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	1880.000000
<b>Relative permittivity (real part)</b>	39.200700
<b>Relative permittivity (imaginary part)</b>	13.839800
<b>Conductivity (S/m)</b>	1.445490
<b>Variation (%)</b>	-0.610000



**Maximum location: X=18.00, Y=34.00**  
**SAR Peak: 1.29 W/kg**

<b>SAR 10g (W/Kg)</b>	0.411583
<b>SAR 1g (W/Kg)</b>	0.781226



# MEASUREMENT 19

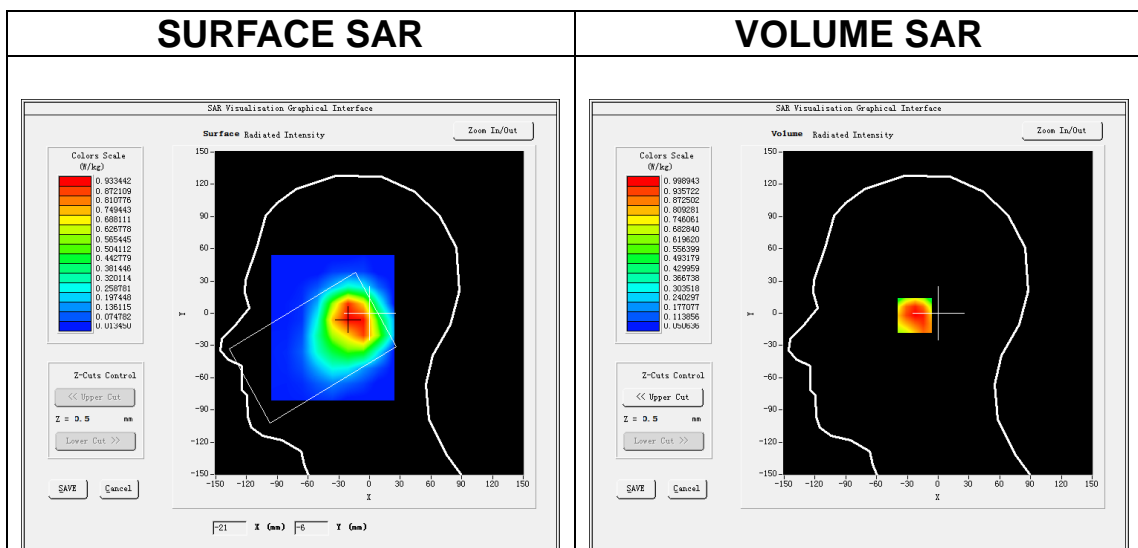
Date of measurement: 18/11/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<b>Phantom</b>	<u>Left head</u>
<b>Device Position</b>	<u>Cheek</u>
<b>Band</b>	<u>LTE band 4</u>
<b>Channels</b>	<u>High</u>
<b>Signal</b>	<u>LTE (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>2.45</u>

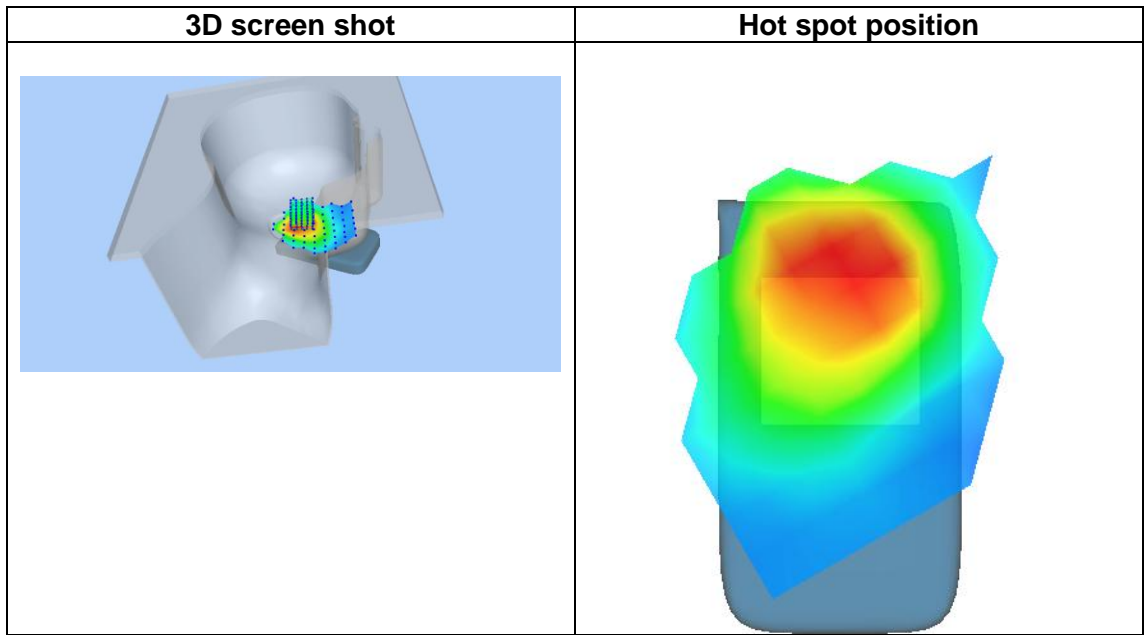
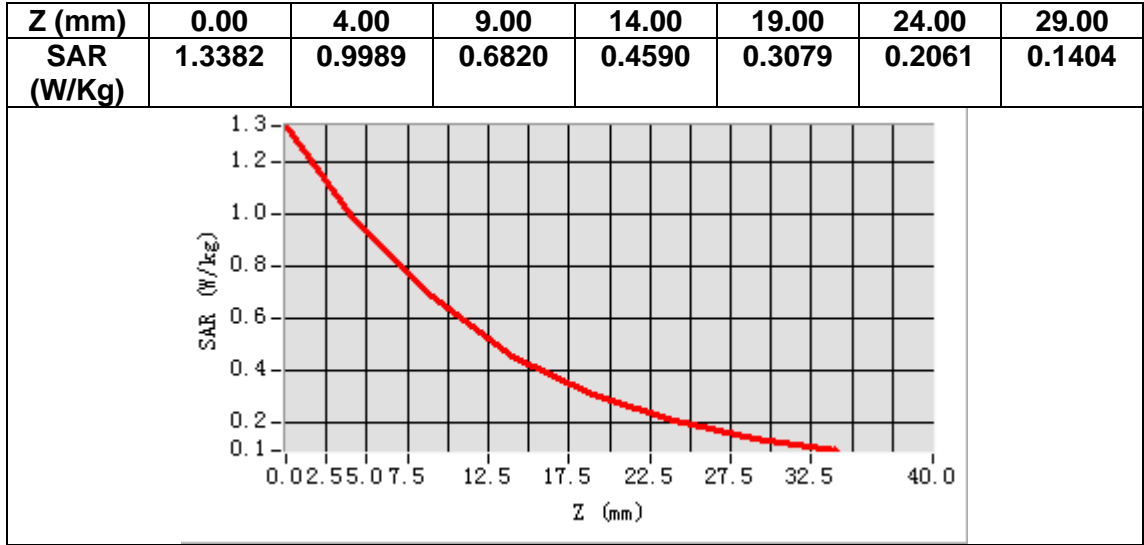
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	1745.000000
<b>Relative permittivity (real part)</b>	40.156780
<b>Relative permittivity (imaginary part)</b>	13.978429
<b>Conductivity (S/m)</b>	1.355131
<b>Variation (%)</b>	-0.720000



**Maximum location: X=-18.00, Y=-2.00**  
**SAR Peak: 1.42 W/kg**

<b>SAR 10g (W/Kg)</b>	0.617223
<b>SAR 1g (W/Kg)</b>	0.970640



# MEASUREMENT 20

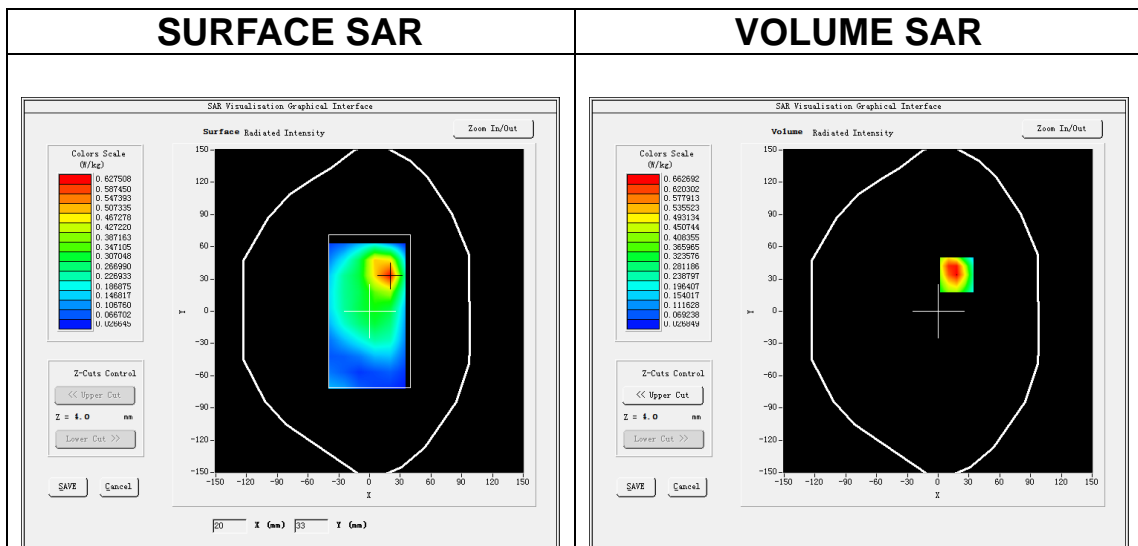
Date of measurement: 18/11/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Body</u>
<b>Band</b>	<u>LTE band 4</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>LTE (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>2.45</u>

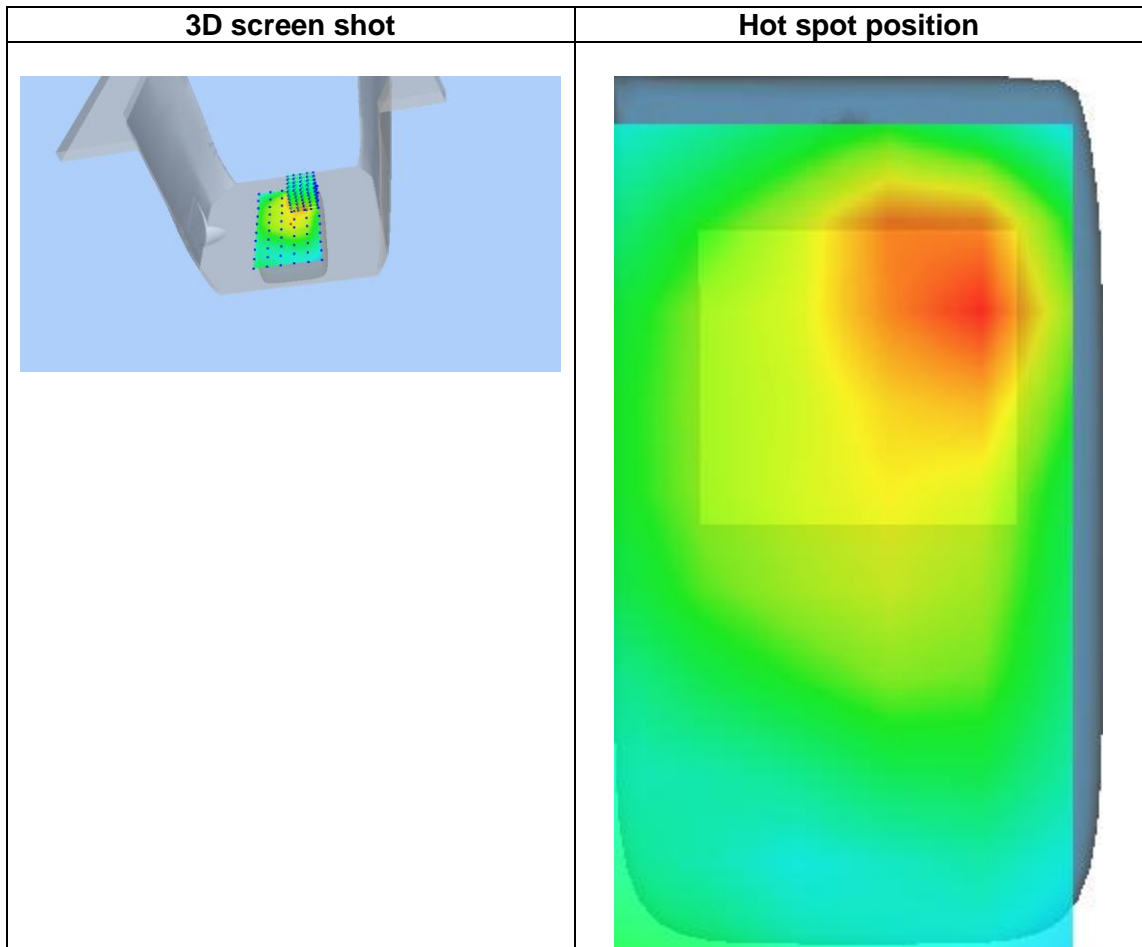
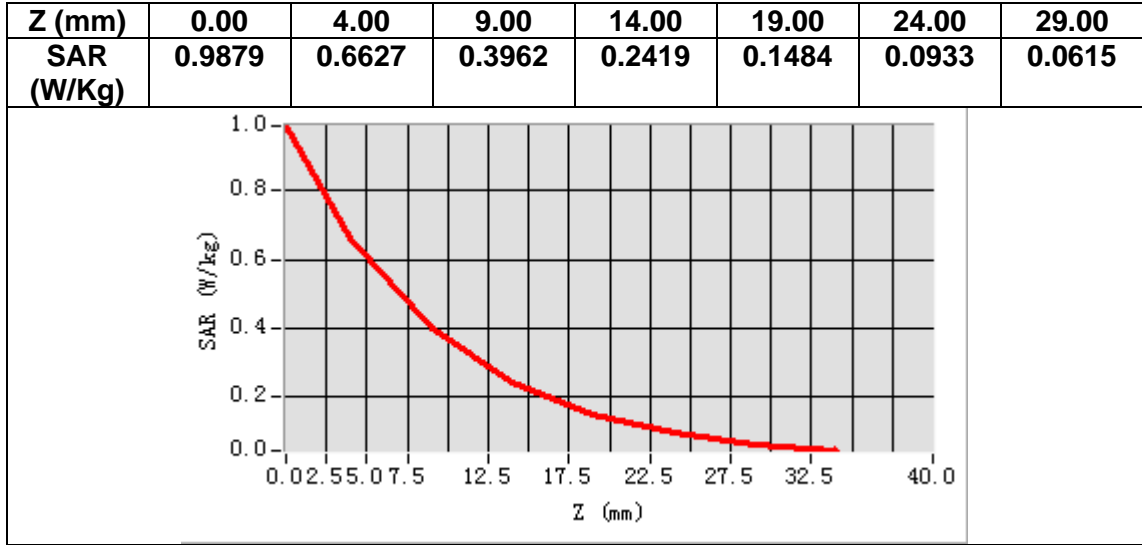
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	1732.500000
<b>Relative permittivity (real part)</b>	40.228580
<b>Relative permittivity (imaginary part)</b>	13.980879
<b>Conductivity (S/m)</b>	1.345660
<b>Variation (%)</b>	-0.750000



**Maximum location: X=18.00, Y=34.00**  
**SAR Peak: 1.07 W/kg**

<b>SAR 10g (W/Kg)</b>	0.358647
<b>SAR 1g (W/Kg)</b>	0.650492





# MEASUREMENT 21

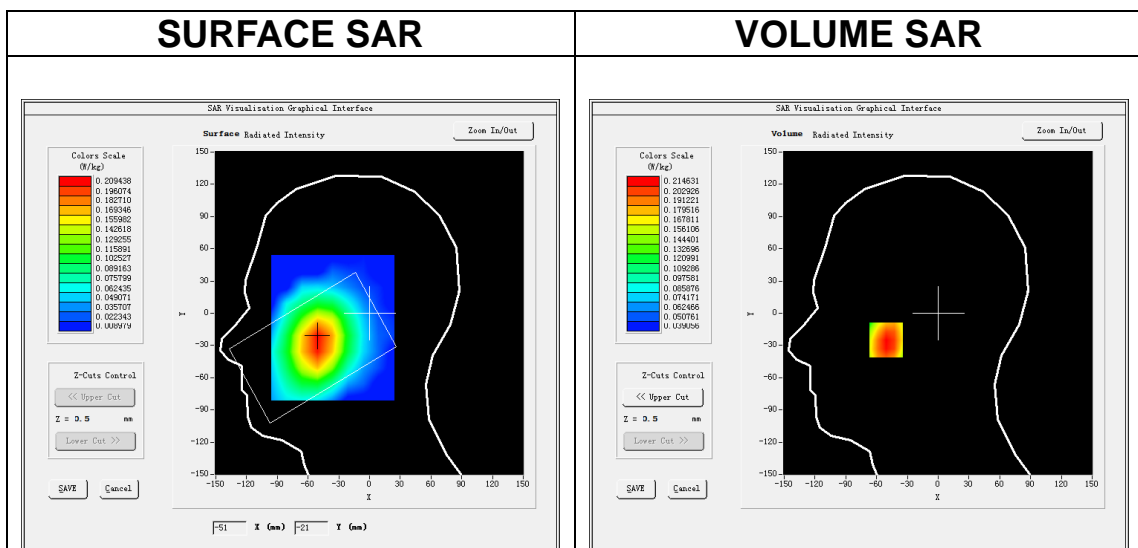
Date of measurement: 24/11/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<b>Phantom</b>	<u>Left head</u>
<b>Device Position</b>	<u>Cheek</u>
<b>Band</b>	<u>LTE band 5</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>LTE (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>2.32</u>

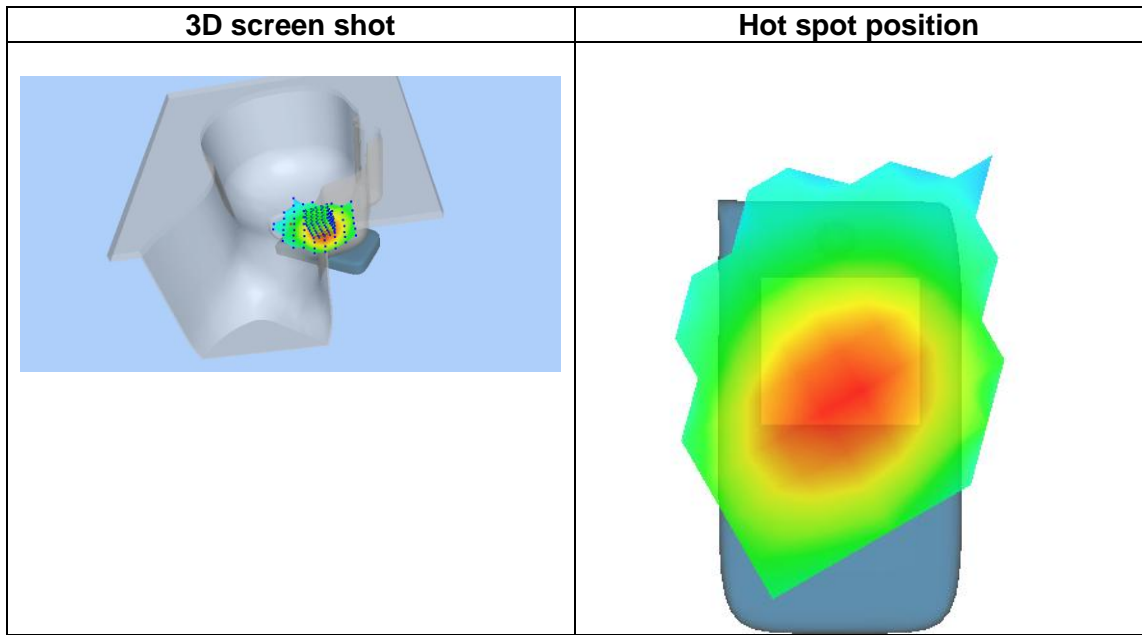
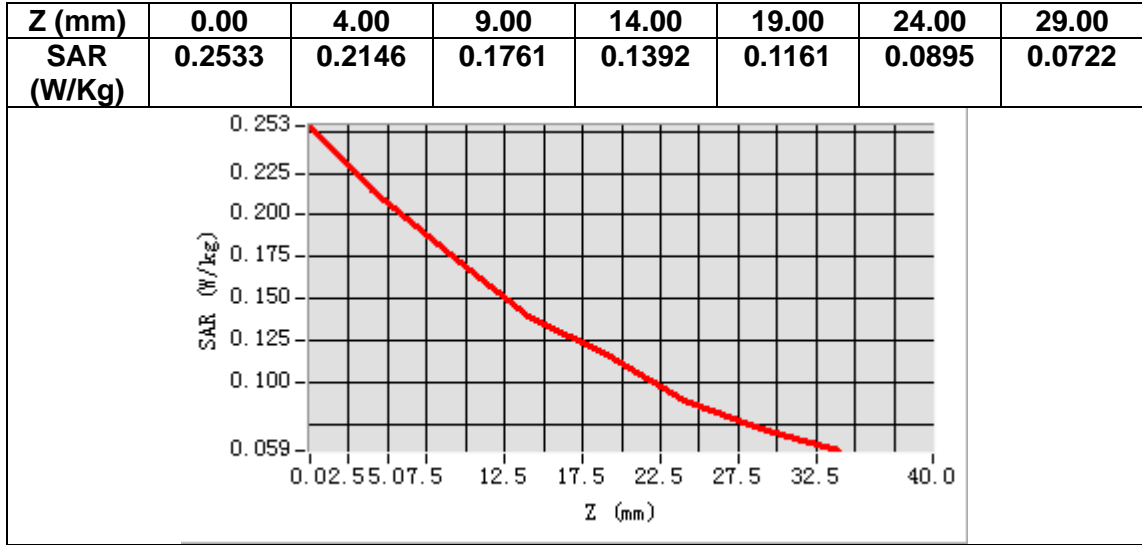
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	836.500000
<b>Relative permittivity (real part)</b>	41.565029
<b>Relative permittivity (imaginary part)</b>	19.442995
<b>Conductivity (S/m)</b>	0.903559
<b>Variation (%)</b>	1.440000



**Maximum location: X=-51.00, Y=-25.00**  
**SAR Peak: 0.26 W/kg**

<b>SAR 10g (W/Kg)</b>	0.157313
<b>SAR 1g (W/Kg)</b>	0.208687



# MEASUREMENT 22

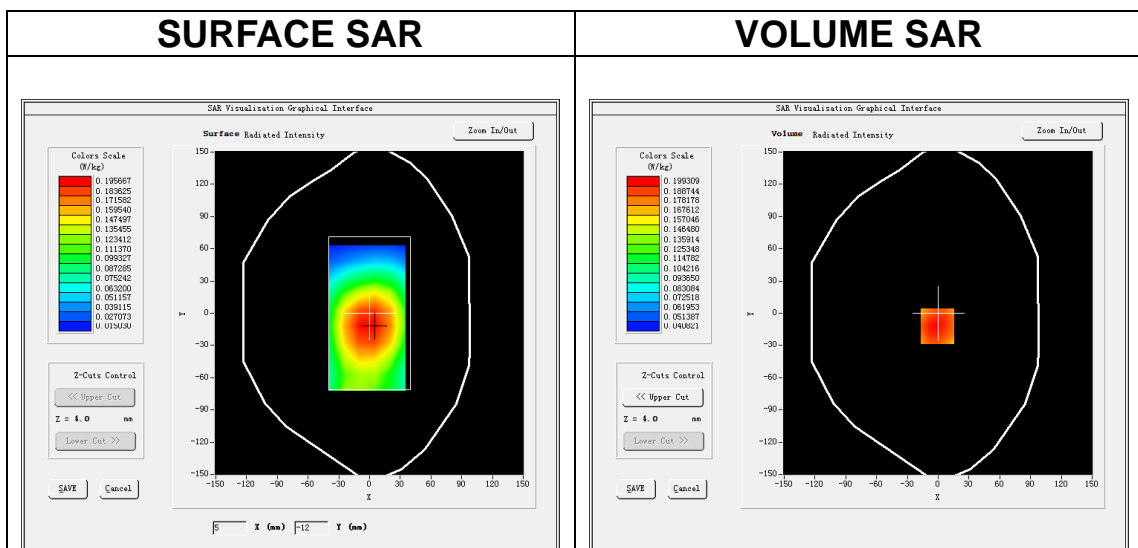
Date of measurement: 24/11/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Body</u>
<b>Band</b>	<u>LTE band 5</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>LTE (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>2.32</u>

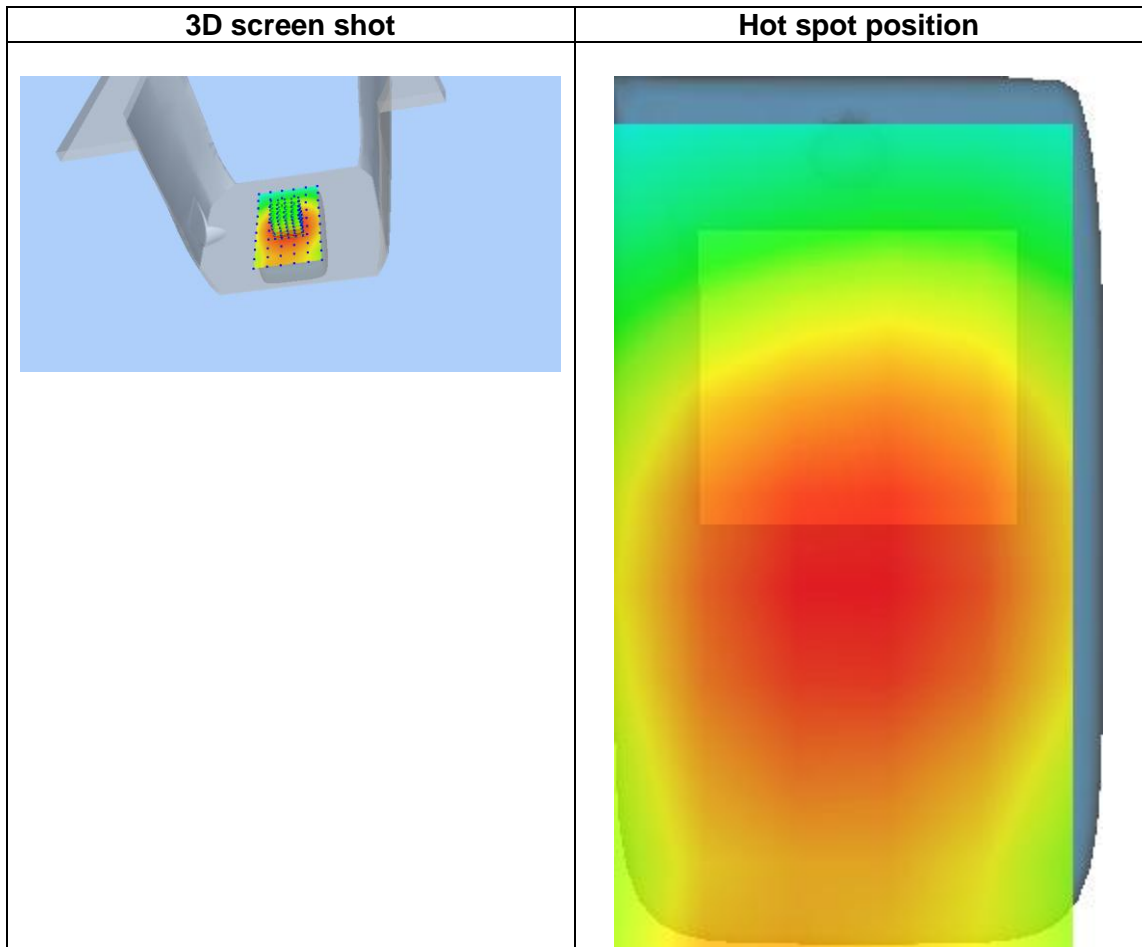
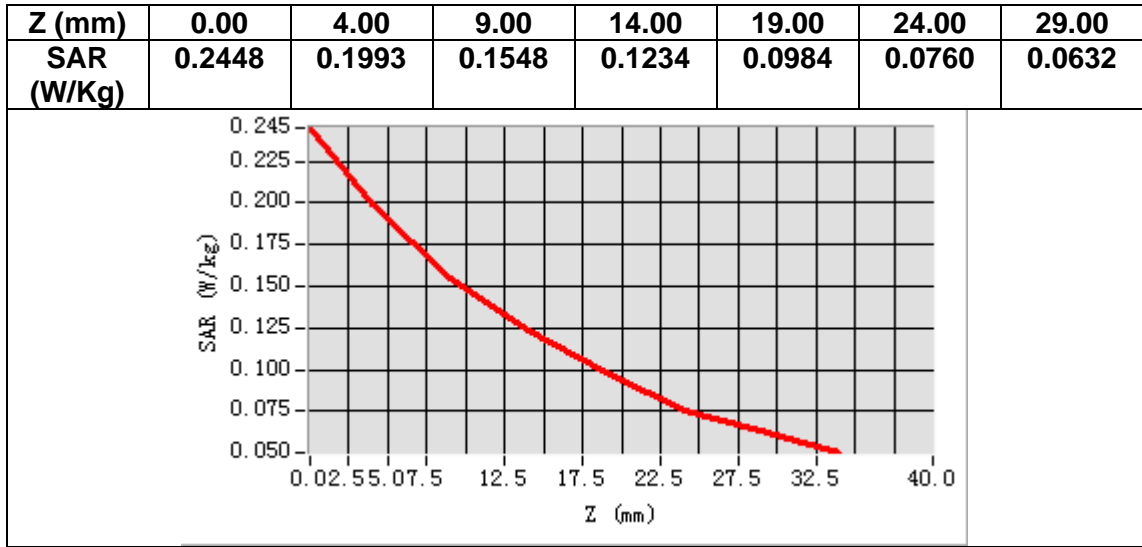
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	836.500000
<b>Relative permittivity (real part)</b>	41.565029
<b>Relative permittivity (imaginary part)</b>	19.442995
<b>Conductivity (S/m)</b>	0.903559
<b>Variation (%)</b>	0.400000



**Maximum location: X=-1.00, Y=-12.00**  
**SAR Peak: 0.25 W/kg**

<b>SAR 10g (W/Kg)</b>	0.146415
<b>SAR 1g (W/Kg)</b>	0.194209



# MEASUREMENT 23

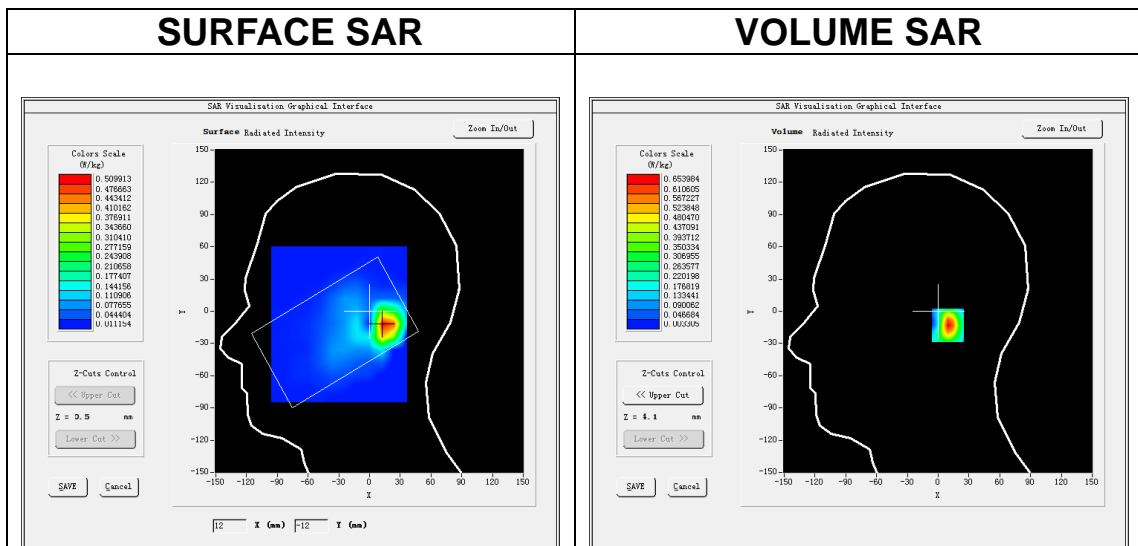
Date of measurement: 22/11/2023

## A. Experimental conditions.

<b>Area Scan</b>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
<b>Phantom</b>	<u>Left head</u>
<b>Device Position</b>	<u>Cheek</u>
<b>Band</b>	<u>LTE band 7</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>LTE (Crest factor: 1.0)</u>
<b>ConvF</b>	<u>2.65</u>

## B. SAR Measurement Results

<b>Frequency (MHz)</b>	2535.000000
<b>Relative permittivity (real part)</b>	38.811852
<b>Relative permittivity (imaginary part)</b>	13.088056
<b>Conductivity (S/m)</b>	1.843235
<b>Variation (%)</b>	-1.130000



**Maximum location: X=16.00, Y=-13.00**  
**SAR Peak: 1.17 W/kg**

<b>SAR 10g (W/Kg)</b>	0.261042
<b>SAR 1g (W/Kg)</b>	0.597494

