

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 : CLOUD MOBILE
Model Name : Stratus C7
Family Model : N/A
Report No. : STR220906001008E
FCC ID : 2AY6A-C7

Prepared for

Cloud Mobile Holding LLC

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TEST RESULT CERTIFICATION**Applicant's name** : Cloud Mobile Holding LLC

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Manufacturer's Name : Cloud Mobile Holding LLC

Address..... : 1149 S. HILL ST. SUITE H400, LOS ANGELES, CA 90015

Product description

Product name : Mobile phone

Brand Name : CLOUD MOBILE

Model and/or type reference : Stratus C7

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 T220906001R002

Date of Test

Date (s) of performance of tests..... : Sep. 07, 2022 ~ Sep. 22, 2022

Date of Issue : Sep. 28, 2022

Test Result..... : **Pass**Prepared By
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(Alex Li)

※ ※ Revision History ※ ※

REV.	DESCRIPTION	ISSUED DATE	REMARK
Rev.1.0	Initial Test Report Release	Sep. 28, 2022	Jacob Chen

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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

HEAD 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 Stratus C7 are as follows.

RF Exposure Conditions		Equipment Class -Highest Reported SAR (W/kg)			
		PCE	DTS	NII	DSS
1-g Head		0.792	0.146	0.502	N/A
1-g Body-Worn (Separation distance of 10mm)		1.308	0.142	0.211	N/A
1-g Hotspot (Separation distance of 10mm)		1.308	0.142	0.211	N/A
Max Simultaneous Tx	Head	1.294	0.938	1.294	0.980
	Body-Worn	1.519	1.450	1.519	1.402
	Hotspot	1.519	1.450	1.519	1.402

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	CLOUD MOBILE
Model Name	Stratus C7
Family Model	N/A
FCC ID	2AY6A-C7
Device Phase	Identical Prototype
Exposure Category	General population / Uncontrolled environment
Antenna Type	LDS Antenna
Battery Information	DC 3.8V, 3000mAh
HW Version	W18_MB_V21
SW Version	W18_Stratus_C7
Device Operating Configurations	
Supporting Mode(s)	GSM 850/1900, WCDMA Band 2/4/5, LTE Band2/4/5/7/12/13/17/41/66/71, WLAN 2.4G/5G, Bluetooth
Test Modulation	GSM(GMSK/8PSK), WCDMA(QPSK), LTE(QPSK/16QAM), WLAN(DSSS/OFDM), Bluetooth(GFSK, $\pi/4$ -DQPSK, 8DPSK)
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 41	2496-2690	
	LTE Band 66	1710-1780	2110-2200
	LTE Band 71	663-698	617-652
	WLAN 2.4G	2412-2462	
	WLAN 5.2G	5180-5240	
	WLAN 5.8G	5745-5825	
	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
EDGE 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 41)		
	3, tested with power control all Max.(LTE Band 66)		

	3, tested with power control all Max.(LTE Band 71)
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1.4. Test specification(s)

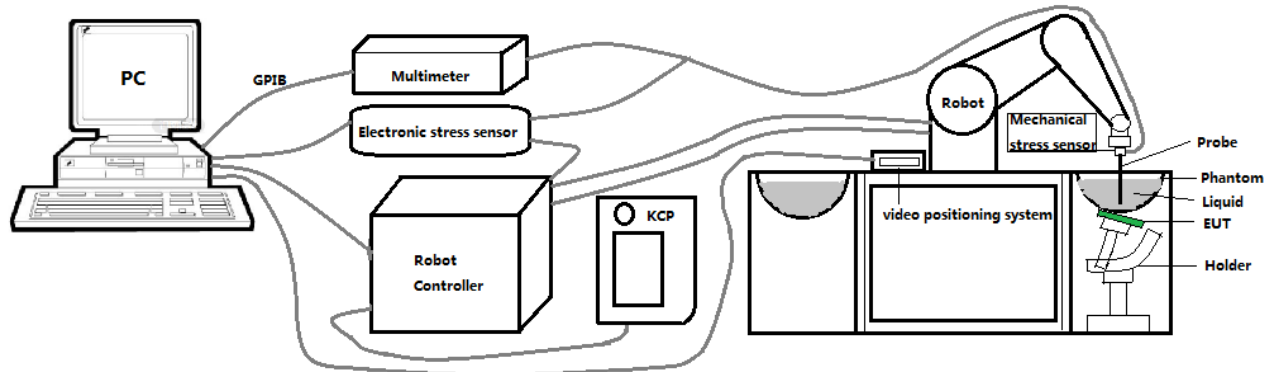
FCC 47 CFR Part 2(2.1093)
ANSI/IEEE C95.1-1992
IEEE Std 1528-2013
KDB 865664 D01 SAR measurement 100 MHz to 6 GHz
KDB 865664 D02 RF Exposure Reporting
KDB 447498 D01 General RF Exposure Guidance
KDB 248227 D01 802.11 Wi-Fi SAR
KDB 941225 D01 3G SAR Procedures
KDB 941225 D05 SAR for LTE Devices
KDB 941225 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 ± 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 ± 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 SN 08/16 EPGO287 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 ± 1 mm).
 - Probe linearity: ± 0.08 dB
 - Axial isotropy: ± 0.01 dB
 - Hemispherical Isotropy: ± 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° .

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 ± 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

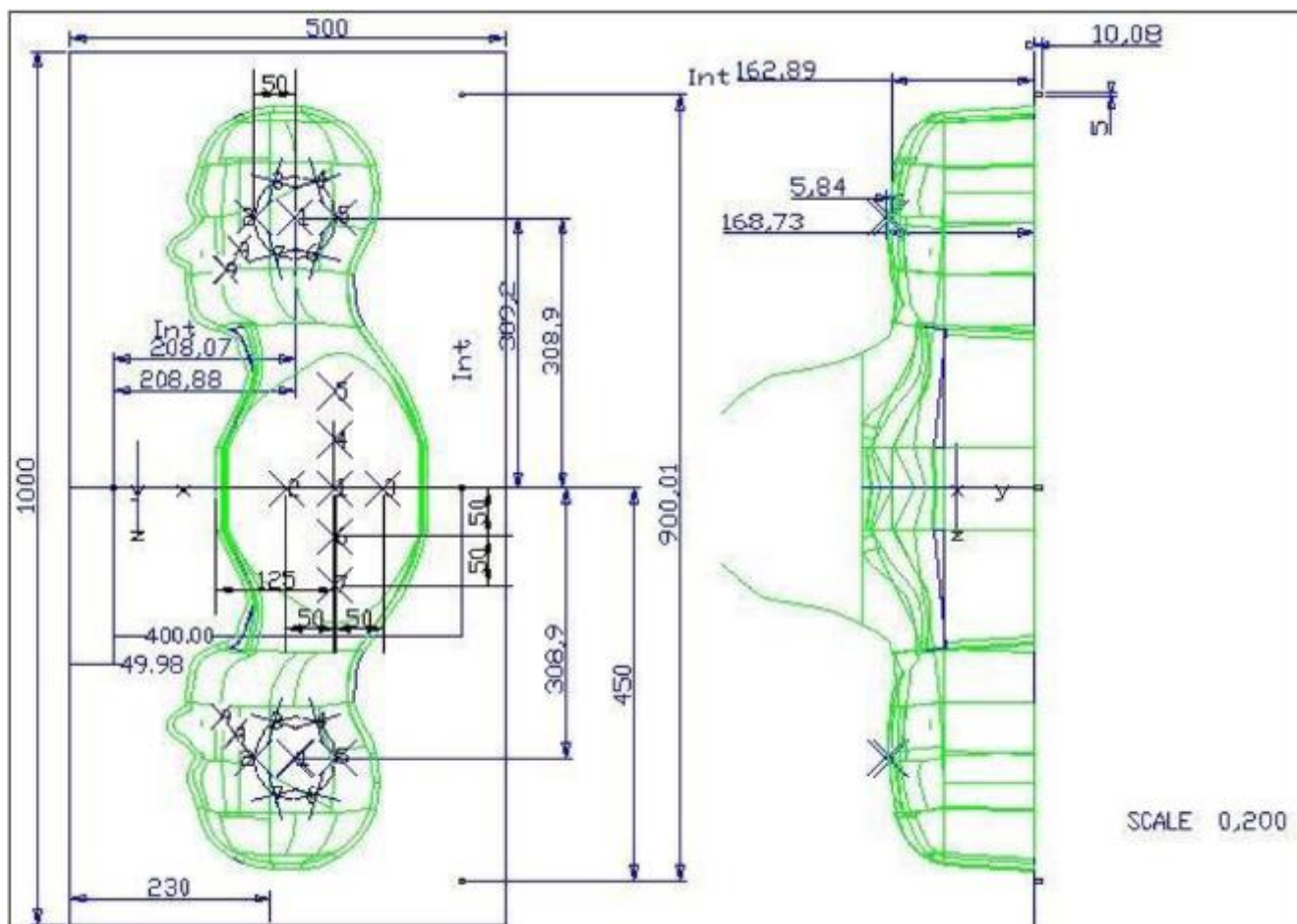
Photo of SAM phantom SN 16/15 SAM119



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

2.4.1. Technical Data

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

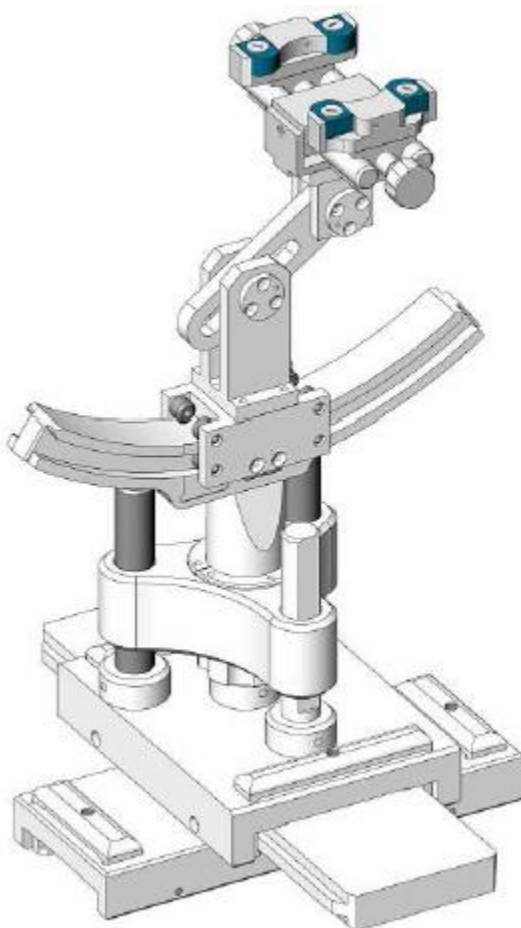


Serial Number	Left Head(mm)		Right Head(mm)		Flat Part(mm)	
SN 16/15 SAM119	2	2.02	2	2.08	1	2.09
	3	2.05	3	2.06	2	2.06
	4	2.07	4	2.07	3	2.08
	5	2.08	5	2.08	4	2.10
	6	2.05	6	2.07	5	2.10
	7	2.05	7	2.05	6	2.07
	8	2.07	8	2.06	7	2.07
	9	2.08	9	2.06	-	-

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
☒	MVG	E FIELD PROBE	SSE2	SN 08/16 EPGO287	Feb. 01, 2022	Jan. 31, 2023
☒	MVG	750 MHz Dipole	SID750	SN 03/15 DIP 0G750-355	Mar. 01, 2021	Feb. 28, 2024
☒	MVG	835 MHz Dipole	SID835	SN 03/15 DIP 0G835-347	Mar. 01, 2021	Feb. 28, 2024
☐	MVG	900 MHz Dipole	SID900	SN 03/15 DIP 0G900-348	Mar. 01, 2021	Feb. 28, 2024
☒	MVG	1800 MHz Dipole	SID1800	SN 03/15 DIP 1G800-349	Mar. 01, 2021	Feb. 28, 2024
☒	MVG	1900 MHz Dipole	SID1900	SN 03/15 DIP 1G900-350	Mar. 01, 2021	Feb. 28, 2024
☐	MVG	2000 MHz Dipole	SID2000	SN 03/15 DIP 2G000-351	Mar. 01, 2021	Feb. 28, 2024
☐	MVG	2300 MHz Dipole	SID2300	SN 03/16 DIP 2G300-358	Mar. 01, 2021	Feb. 28, 2024
☒	MVG	2450 MHz Dipole	SID2450	SN 03/15 DIP 2G450-352	Mar. 01, 2021	Feb. 28, 2024
☒	MVG	2600 MHz Dipole	SID2600	SN 03/15 DIP 2G600-356	Mar. 01, 2021	Feb. 28, 2024
☒	MVG	5000 MHz Dipole	SWG5500	SN 13/14 WGA 33	Mar. 01, 2021	Feb. 28, 2024
☒	MVG	Liquid measurement Kit	SCLMP	SN 21/15 OCPG 72	NCR	NCR
☒	MVG	Power Amplifier	N.A	AMPLISAR_28/14_003	NCR	NCR
☒	KEITHLEY	Millivoltmeter	2000	4072790	NCR	NCR
☒	R&S	Universal radio communication tester	CMU200	117858	Jun. 17, 2022	Jun. 16, 2023
☒	R&S	Wideband radio communication tester	CMW500	103917	Jun. 17, 2022	Jun. 16, 2023
☒	HP	Network Analyzer	8753D	3410J01136	Jun. 17, 2022	Jun. 16, 2023

☒	Agilent	MXG Vector Signal Generator	N5182A	MY47070317	Jun. 16, 2022	Jun. 15, 2023
☒	Agilent	Power meter	E4419B	MY45102538	Jun. 17, 2022	Jun. 16, 2023
☒	Agilent	Power sensor	E9301A	MY41495644	Jun. 17, 2022	Jun. 16, 2023
☒	Agilent	Power sensor	E9301A	US39212148	Jun. 17, 2022	Jun. 16, 2023
☒	MCLI/USA	Directional Coupler	CB11-20	0D2L51502	Jul. 17, 2020	Jul. 16, 2023

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	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location			30° ± 1°	20° ± 1°
Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
			When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{\text{Zoom}}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	≤ 1.5 · $\Delta z_{\text{Zoom}}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm

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 this 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 to 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 scan 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 install 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									
Frequency Band (MHz)	750	835	900	1800	1900	2000	2450	2600	5200	5800
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.

Photo of Liquid depth for Head Position	Photo of Liquid depth for Body Position
	

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 of the dielectric parameter are within the tolerances of the specified target values. The measured conductivity and relative permittivity should be within $\pm 5\%$ of the target values.

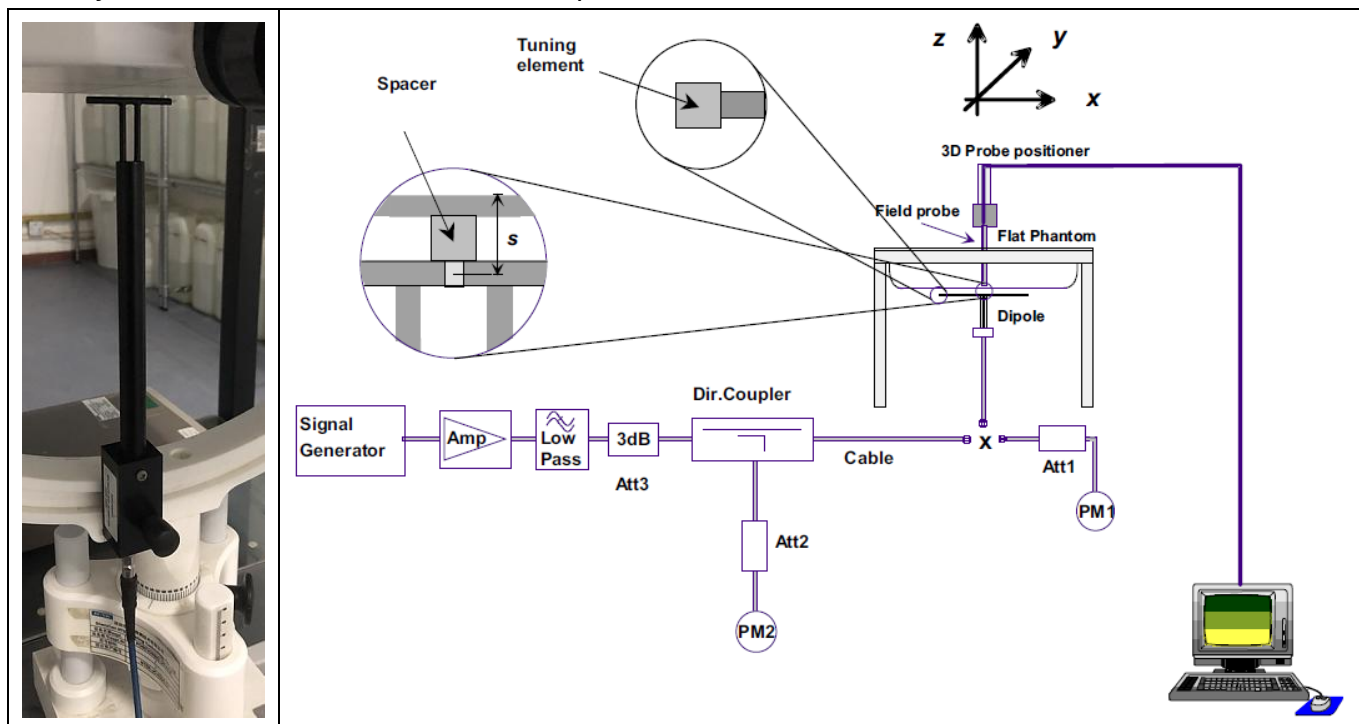
Tissue Type	Measured Frequency (MHz)	Target Tissue		Measured Tissue		Liquid Temp.	Test Date
		$\epsilon_r (\pm 5\%)$	$\sigma \text{ (S/m)} (\pm 5\%)$	ϵ_r	$\sigma \text{ (S/m)}$		
Head 750	750	41.96 (39.86~44.06)	0.89 (0.85~0.93)	40.13	0.89	21.7 °C	Sep. 20, 2022
Head 850	835	41.50 (39.43~43.58)	0.90 (0.86~0.95)	41.50	0.93	21.4 °C	Sep. 12, 2022
Head 1800	1800	40.00 (38.00~42.00)	1.40 (1.33~1.47)	38.68	1.38	21.3 °C	Sep. 21, 2022
Head 1900	1900	40.00 (38.00~42.00)	1.40 (1.33~1.47)	38.48	1.46	21.3 °C	Sep. 14, 2022
Head 2450	2450	39.20 (37.24~41.16)	1.80 (1.71~1.89)	37.92	1.79	21.9 °C	Sep. 07, 2022
Head 2600	2600	39.01 (37.06~40.96)	1.96 (1.86~2.06)	37.69	1.91	21.7 °C	Sep. 22, 2022
Head 5200	5200	36.00 (34.20~37.80)	4.66 (4.43~4.89)	35.24	4.49	21.6 °C	Sep. 16, 2022
Head 5800	5800	35.30 (33.54~37.07)	5.27 (5.01~5.53)	34.14	5.10	21.4 °C	Sep. 15, 2022

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) ($\pm 10\%$)		Measured SAR (Normalized to 1W)		Liquid Temp.	Test Date
	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)	8.13	5.80	21.7 °C	Sep. 20, 2022
835MHz	9.84 (8.86~10.82)	6.22 (5.60~6.84)	10.66	6.07	21.4 °C	Sep. 12, 2022
1800MHz	37.96 (34.17~41.75)	19.81 (17.83~21.79)	41.18	20.45	21.3 °C	Sep. 21, 2022
1900MHz	40.37 (36.34~44.40)	20.48 (18.44~22.52)	39.60	18.87	21.3 °C	Sep. 14, 2022
2450MHz	53.69 (48.33~59.05)	23.94 (21.55~26.33)	52.50	26.00	21.9 °C	Sep. 07, 2022
2600MHz	55.83 (50.25~61.41)	24.19 (21.78~26.60)	59.63	22.03	21.7 °C	Sep. 22, 2022
5200MHz	162.34 (146.11~178.57)	55.42 (49.88~60.96)	170.00	54.48	21.6 °C	Sep. 16, 2022
5800MHz	178.89 (161.01~196.77)	59.32 (53.39~65.25)	184.74	54.23	21.4 °C	Sep. 15, 2022

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 ≥ 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 ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 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”.

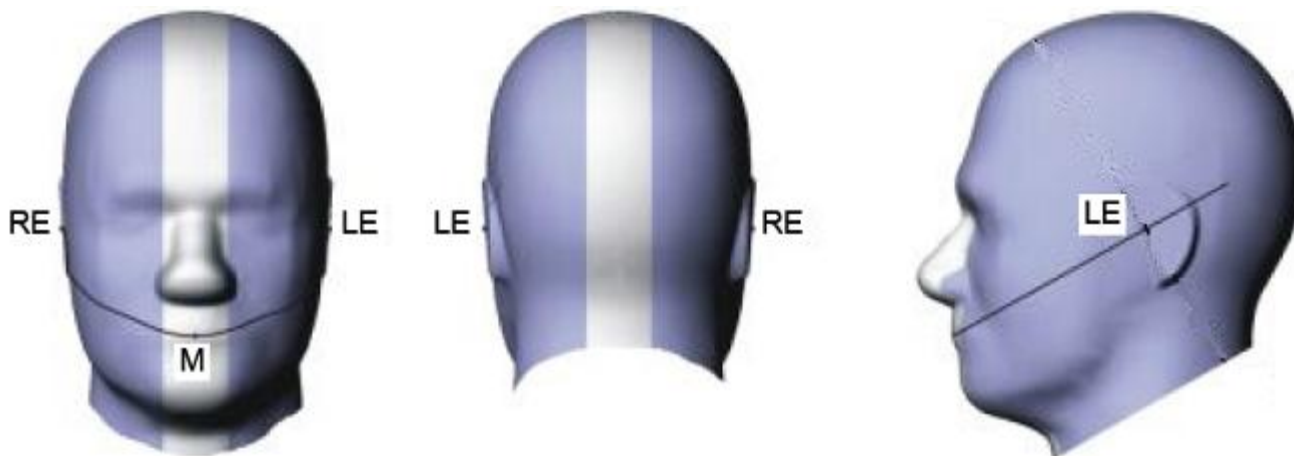


Fig 6.1.1 Front, back, and side views of SAM phantom

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.

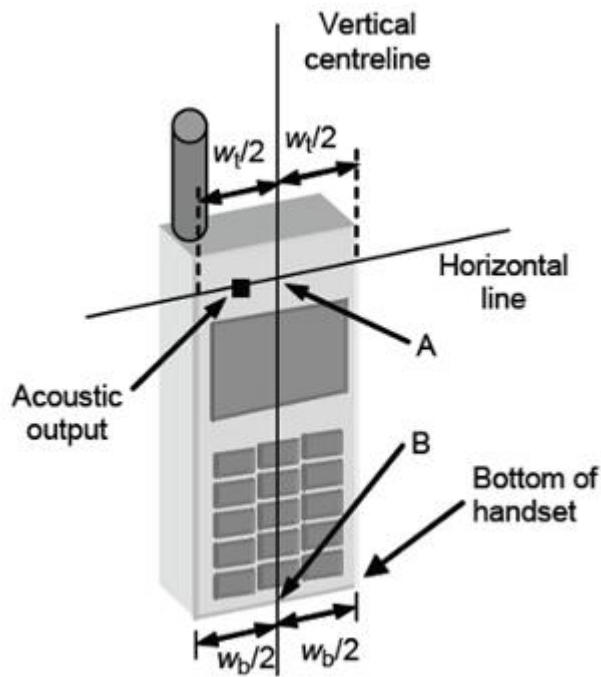


Fig 6.2.1 Handset vertical and horizontal reference lines—"fixed case"

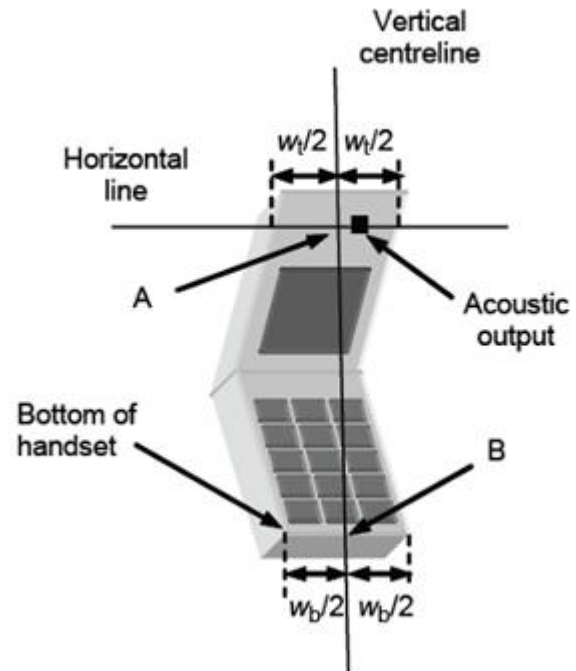


Fig 6.2.2 Handset vertical and horizontal reference lines—"clam-shell case"

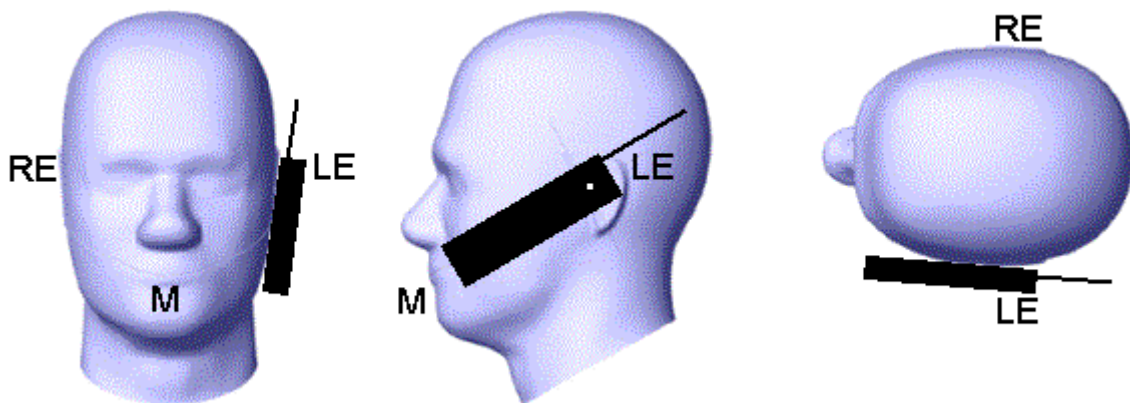


Fig 6.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

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.

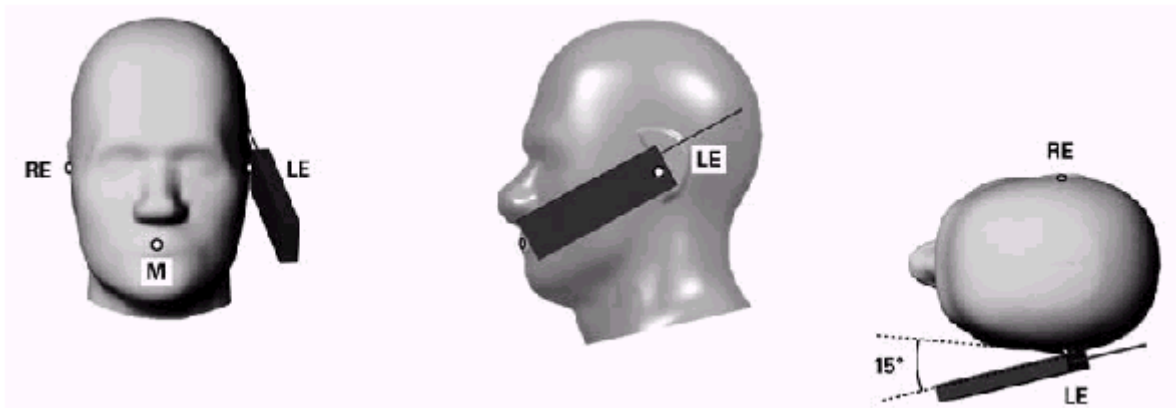


Figure 6.3.1 – Tilt position of the wireless device on the left side of SAM

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 $< 1.2 \text{ W/kg}$, 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 tested 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.

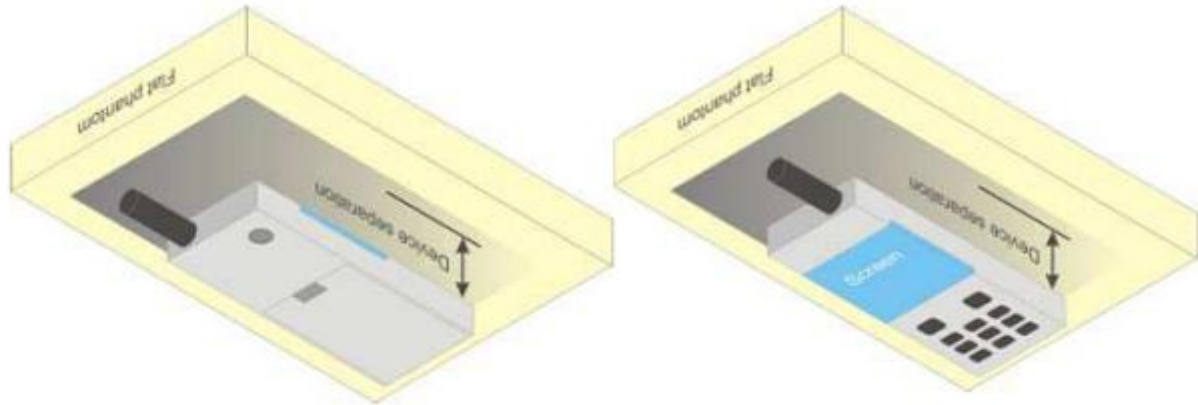


Figure 6.4.1 – Test positions for body-worn devices

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	128	189	251	Tune-up	128	189	251
Frequency (MHz)	(dBm)	824.2	836.4	848.8	(dBm)	824.2	836.4	848.8
GSM (GMSK)	32.00	31.38	31.50	31.53	22.97	22.35	22.47	22.50
GPRS(GMSK, 1 TS)	32.00	31.47	31.59	31.63	22.97	22.44	22.56	22.60
GPRS(GMSK, 2 TS)	31.00	30.86	30.96	31.00	24.98	24.84	24.94	24.98
GPRS(GMSK, 3 TS)	29.50	29.19	29.26	29.37	25.24	24.93	25.00	25.11
GPRS(GMSK, 4 TS)	28.50	28.00	28.06	28.14	25.49	24.99	25.05	25.13
EDGE(GMSK, 1 TS)	32.00	31.40	31.55	31.56	22.97	22.37	22.52	22.53
EDGE(GMSK, 2 TS)	31.00	30.78	30.87	30.94	24.98	24.76	24.85	24.92
EDGE(GMSK, 3 TS)	29.50	29.11	29.20	29.28	25.24	24.85	24.94	25.02
EDGE(GMSK, 4 TS)	28.50	27.91	28.00	28.06	25.49	24.90	24.99	25.05
Band GSM1900	Burst-Averaged output Power (dBm)				Frame-Averaged output Power (dBm)			
Tx Channel	Tune-up	512	661	810	Tune-up	512	661	810
Frequency (MHz)	(dBm)	1850.2	1880.0	1909.8	(dBm)	1850.2	1880.0	1909.8
GSM (GMSK)	29.50	29.09	29.02	28.87	20.47	20.06	19.99	19.84
GPRS(GMSK, 1 TS)	29.50	29.03	28.99	28.82	20.47	20.00	19.96	19.79
GPRS(GMSK, 2 TS)	28.50	28.32	28.27	28.15	22.48	22.30	22.25	22.13
GPRS(GMSK, 3 TS)	27.00	26.50	26.42	26.34	22.74	22.24	22.16	22.08
GPRS(GMSK, 4 TS)	25.50	25.33	25.23	25.09	22.49	22.32	22.22	22.08
EDGE(GMSK, 1 TS)	29.50	29.11	29.09	28.94	20.47	20.08	20.06	19.91
EDGE(GMSK, 2 TS)	28.50	28.38	28.32	28.25	22.48	22.36	22.30	22.23
EDGE(GMSK, 3 TS)	27.00	26.59	26.46	26.38	22.74	22.33	22.20	22.12
EDGE(GMSK, 4 TS)	25.50	25.33	25.25	25.16	22.49	22.32	22.24	22.15

Note: The frame-averaged power is linearly scaled the maximum burst averaged power over 8 time slots.

The calculated method are shown as below:

Frame-averaged power = Maximum burst averaged power (1 TS) - 9.03 dB

Frame-averaged power = Maximum burst averaged power (2 TS) - 6.02 dB

Frame-averaged power = Maximum burst averaged power (3 TS) - 4.26 dB

Frame-averaged power = Maximum burst averaged power (4 TS) - 3.01 dB

7.2. WCDMA Conducted Power

WCDMA Band 2	Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up	9262	9400	9538

Frequency (MHz)	(dBm)	1852.4	1880	1907.6
RMC12.2K	22.00	21.67	21.61	21.61
HSDPA Sub 1	21.00	20.72	20.68	20.61
HSDPA Sub 2	20.50	20.35	20.13	20.13
HSDPA Sub 3	19.50	18.91	19.20	18.86
HSDPA Sub 4	19.50	18.97	18.94	19.14
HSUPA Sub 1	21.00	19.25	20.57	20.41
HSUPA Sub 2	21.00	20.68	20.55	20.50
HSUPA Sub 3	20.00	19.09	19.10	19.53
HSUPA Sub 4	21.00	20.72	20.66	20.64
HSUPA Sub 5	20.00	19.24	19.64	19.87
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	22.50	22.09	22.20	22.42
HSDPA Sub 1	21.50	21.16	21.26	21.49
HSDPA Sub 2	21.50	20.74	20.83	21.09
HSDPA Sub 3	20.00	19.83	19.80	19.98
HSDPA Sub 4	20.50	19.89	19.63	20.14
HSUPA Sub 1	21.50	19.62	21.11	21.34
HSUPA Sub 2	21.50	21.14	21.19	21.38
HSUPA Sub 3	20.50	19.51	19.94	20.24
HSUPA Sub 4	22.00	21.18	21.30	21.51
HSUPA Sub 5	21.00	19.58	20.28	20.57
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	22.50	22.21	22.18	21.99
HSDPA Sub 1	21.50	21.26	21.27	21.09
HSDPA Sub 2	21.00	20.88	20.91	20.56
HSDPA Sub 3	20.50	19.85	20.02	19.63
HSDPA Sub 4	20.00	19.80	19.59	19.16
HSUPA Sub 1	21.50	20.11	21.07	20.90
HSUPA Sub 2	21.50	21.21	21.23	20.93
HSUPA Sub 3	20.50	19.61	20.04	19.66
HSUPA Sub 4	21.50	21.27	21.26	21.09
HSUPA Sub 5	21.00	19.94	20.65	20.44

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	26.00	25.32	25.44	25.35
			1	2	26.00	25.43	25.57	25.45
			1	5	26.00	25.35	25.40	25.33
			3	0	26.00	25.44	25.51	25.48
			3	1	26.00	25.47	25.54	25.46
			3	2	26.00	25.46	25.53	25.43
			6	0	25.00	24.49	24.58	24.51
		16QAM	1	0	25.00	24.58	24.56	24.52
			1	2	25.00	24.73	24.80	24.72
			1	5	25.00	24.61	24.66	24.54
			3	0	25.00	24.34	24.51	24.47
			3	1	25.00	24.38	24.53	24.47
			3	2	25.00	24.41	24.50	24.44
			6	0	24.00	23.61	23.59	23.54
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	26.00	25.44	25.59	25.51
			1	7	26.00	25.43	25.56	25.50
			1	14	26.00	25.42	25.55	25.49
			8	0	25.00	24.54	24.62	24.57
			8	4	25.00	24.56	24.65	24.62
			8	7	25.00	24.50	24.64	24.55
			15	0	25.00	24.57	24.66	24.57
		16QAM	1	0	25.00	24.66	24.81	24.66
			1	7	25.00	24.69	24.83	24.69
			1	14	25.00	24.57	24.80	24.55
			8	0	24.00	23.59	23.68	23.42
			8	4	24.00	23.64	23.68	23.61
			8	7	24.00	23.55	23.66	23.60
			15	0	24.00	23.58	23.63	23.49
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		

			RB Size	RB Offset		18625/1852.5	18900/1880	19175/1907.5
LTE Band 2	5MHz	QPSK	1	0	26.00	25.07	25.10	25.39
			1	12	26.00	24.94	25.30	25.06
			1	24	26.00	25.13	25.34	24.90
			12	0	25.00	24.22	24.57	24.09
			12	6	25.00	24.35	24.60	24.07
			12	11	25.00	24.26	24.52	23.98
			25	0	25.00	24.33	24.57	24.05
		16QAM	1	0	25.00	24.36	24.65	24.20
			1	12	25.00	24.36	24.75	24.24
			1	24	25.00	24.30	24.52	24.06
			12	0	24.00	23.26	23.52	23.09
			12	6	24.00	23.44	23.55	23.07
			12	11	24.00	23.32	23.48	22.96
			25	0	24.00	23.40	23.53	23.03
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18650/1855	18900/1880	19150/1905
LTE Band 2	10MHz	QPSK	1	0	26.00	24.89	25.03	25.05
			1	24	26.00	25.00	25.15	25.18
			1	49	26.00	24.88	24.93	24.90
			25	0	24.50	24.05	24.19	24.28
			25	12	24.50	24.05	24.18	24.18
			25	24	24.50	24.03	24.10	24.02
			50	0	24.50	24.04	24.14	24.17
		16QAM	1	0	24.50	24.14	24.30	24.33
			1	24	24.50	24.36	24.43	24.40
			1	49	24.50	24.17	24.16	24.18
			25	0	23.50	23.04	23.18	23.26
			25	12	23.50	23.04	23.19	23.16
			25	24	23.50	23.03	23.14	23.00
			50	0	23.50	23.00	23.21	23.15
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18675/1857.5	18900/1880	19125/1902.5
LTE Band	15MHz	QPSK	1	0	26.00	24.76	24.92	24.95
			1	37	26.00	24.91	25.03	25.06

2			1	74	26.00	24.83	24.79	24.76
			36	0	24.50	23.98	24.14	24.19
			36	18	24.50	24.01	24.11	24.16
			36	37	24.50	24.02	24.04	23.99
			75	0	24.50	23.98	24.09	24.11
		16QAM	1	0	24.50	23.97	24.10	24.25
			1	37	24.50	24.15	24.30	24.22
			1	74	24.50	24.04	24.02	24.03
			36	0	23.50	22.94	23.08	23.14
			36	18	23.50	22.96	23.08	23.14
			36	37	23.50	23.00	23.01	22.95
			75	0	23.50	22.96	23.06	23.07
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	26.00	24.62	24.78	24.78
			1	49	26.00	25.00	25.11	25.20
			1	99	26.00	24.73	24.64	24.62
			50	0	24.50	23.97	24.19	24.20
			50	24	24.50	24.05	24.13	24.18
			50	49	24.50	24.13	23.99	23.92
			100	0	24.50	24.05	24.09	24.06
		16QAM	1	0	24.50	23.87	24.01	23.97
			1	49	24.50	24.33	24.25	24.35
			1	99	24.50	24.07	23.98	23.83
			50	0	23.50	22.97	23.16	23.20
			50	24	23.50	23.07	23.10	23.18
			50	49	23.50	23.10	22.97	22.91
			100	0	23.50	23.02	23.06	23.03

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	25.50	24.63	25.16	25.32
			1	2	25.50	24.77	25.27	25.43
			1	5	25.50	24.64	25.17	25.32
			3	0	25.50	24.75	25.25	25.40
			3	1	25.50	24.77	25.28	25.46

			3	2	25.50	24.75	25.25	25.42
			6	0	24.50	23.79	24.32	24.46
		16QAM	1	0	25.00	23.94	24.40	24.53
			1	2	25.00	24.08	24.41	24.73
			1	5	25.00	23.94	24.32	24.49
			3	0	24.50	23.73	24.21	24.40
			3	1	24.50	23.77	24.27	24.41
			3	2	24.50	23.73	24.26	24.37
			6	0	24.00	22.87	23.38	23.50
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	25.50	24.78	25.29	25.40
			1	7	25.50	24.80	25.28	25.44
			1	14	25.50	24.78	25.29	25.45
			8	0	25.00	23.83	24.36	24.52
			8	4	25.00	23.85	24.38	24.53
			8	7	25.00	23.83	24.36	24.51
			15	0	25.00	23.85	24.41	24.54
		16QAM	1	0	25.00	24.04	24.51	24.62
			1	7	25.00	24.04	24.48	24.68
			1	14	25.00	24.04	24.45	24.71
			8	0	24.00	22.88	23.39	23.57
			8	4	24.00	22.92	23.44	23.57
			8	7	24.00	22.86	23.38	23.56
			15	0	24.00	22.85	23.38	23.52
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	25.50	24.60	25.12	25.11
			1	12	25.50	24.71	25.25	25.24
			1	24	25.50	24.59	25.15	25.18
			12	0	24.50	23.74	24.28	24.28
			12	6	24.50	23.80	24.34	24.38
			12	11	24.50	23.77	24.29	24.34
			25	0	24.50	23.76	24.30	24.35
		16QAM	1	0	25.00	23.87	24.38	24.37
			1	12	25.00	23.95	24.46	24.50

			1	24	25.00	23.88	24.33	24.35
			12	0	23.50	22.69	23.27	23.25
			12	6	23.50	22.78	23.32	23.37
			12	11	23.50	22.75	23.29	23.30
			25	0	23.50	22.75	23.27	23.33
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	25.50	24.64	25.15	25.14
			1	24	25.50	24.88	25.34	25.33
			1	49	25.50	24.83	25.21	25.25
			25	0	24.50	23.81	24.37	24.36
			25	12	24.50	23.89	24.38	24.39
			25	24	24.50	23.93	24.39	24.39
			50	0	24.50	23.90	24.37	24.37
		16QAM	1	0	25.00	23.92	24.31	24.41
			1	24	25.00	24.08	24.60	24.54
			1	49	25.00	24.01	24.48	24.53
			25	0	23.50	22.79	23.35	23.33
			25	12	23.50	22.87	23.37	23.33
			25	24	23.50	22.91	23.37	23.36
			50	0	23.50	22.86	23.35	23.34
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	25.50	24.49	24.96	24.95
			1	37	25.50	24.79	25.24	25.22
			1	74	25.50	24.81	25.12	25.12
			36	0	24.50	23.78	24.25	24.26
			36	18	24.50	23.92	24.36	24.32
			36	37	24.50	23.96	24.35	24.28
			75	0	24.50	23.88	24.28	24.27
		16QAM	1	0	24.50	23.68	24.19	24.19
			1	37	24.50	23.99	24.46	24.43
			1	74	24.50	24.08	24.30	24.39
			36	0	23.50	22.74	23.22	23.21
			36	18	23.50	22.84	23.30	23.27
			36	37	23.50	22.89	23.29	23.25

			75	0	23.50	22.83	23.26	23.24
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20050/1720	20175/1732.5	20300/1745
LTE Band 4	20MHz	QPSK	1	0	25.50	24.34	24.71	24.75
			1	49	25.50	24.91	25.28	25.24
			1	99	25.50	24.77	24.98	24.95
			50	0	24.50	23.80	24.27	24.24
			50	24	24.50	23.99	24.35	24.34
			50	49	24.50	24.04	24.32	24.29
			100	0	24.50	23.93	24.27	24.28
		16QAM	1	0	24.50	23.61	23.94	23.96
			1	49	24.50	24.10	24.48	24.48
			1	99	24.50	24.13	24.18	24.11
			50	0	23.50	22.77	23.23	23.22
			50	24	23.50	22.95	23.31	23.28
			50	49	23.50	23.02	23.30	23.26
			100	0	23.50	22.88	23.24	23.23

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	24.15	24.31	24.23
			1	2	25.00	24.25	24.42	24.38
			1	5	25.00	24.16	24.30	24.26
			3	0	24.50	24.25	24.40	24.34
			3	1	24.50	24.27	24.42	24.37
			3	2	24.50	24.19	24.43	24.35
			6	0	23.50	23.24	23.42	23.40
		16QAM	1	0	24.00	23.46	23.60	23.59
			1	2	24.00	23.59	23.71	23.71
			1	5	24.00	23.48	23.56	23.48
			3	0	23.50	23.19	23.31	23.39
			3	1	23.50	23.24	23.38	23.40
			3	2	23.50	23.21	23.40	23.35
			6	0	22.50	22.35	22.47	22.48
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		

			RB Size	RB Offset		20415/825.5	20525/836.5	20635/847.5
LTE Band 5	3MHz	QPSK	1	0	25.00	24.27	24.38	24.42
			1	7	25.00	24.23	24.42	24.43
			1	14	25.00	24.29	24.42	24.37
			8	0	24.00	23.29	23.45	23.46
			8	4	24.00	23.35	23.51	23.49
			8	7	24.00	23.31	23.49	23.42
			15	0	24.00	23.29	23.51	23.45
		16QAM	1	0	24.00	23.49	23.59	23.79
			1	7	24.00	23.54	23.70	23.64
			1	14	24.00	23.62	23.70	23.63
			8	0	23.00	22.36	22.50	22.57
			8	4	23.00	22.42	22.57	22.55
			8	7	23.00	22.38	22.55	22.51
			15	0	22.50	22.29	22.49	22.45
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	5MHz	QPSK	1	0	25.00	24.05	24.20	24.25
			1	12	25.00	24.21	24.36	24.36
			1	24	25.00	24.09	24.24	24.18
			12	0	23.50	23.21	23.37	23.42
			12	6	23.50	23.29	23.45	23.43
			12	11	23.50	23.20	23.38	23.34
			25	0	23.50	23.22	23.40	23.38
		16QAM	1	0	24.00	23.30	23.41	23.48
			1	12	24.00	23.56	23.62	23.58
			1	24	24.00	23.33	23.49	23.51
			12	0	22.50	22.19	22.33	22.45
			12	6	22.50	22.28	22.46	22.42
			12	11	22.50	22.17	22.35	22.30
			25	0	22.50	22.18	22.40	22.39
Band	Band Width	Modulation	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	24.14	24.28	24.38
			1	24	25.00	24.33	24.49	24.51

5			1	49	25.00	24.25	24.33	24.26
			25	0	24.00	23.36	23.43	23.63
			25	12	24.00	23.34	23.50	23.48
			25	24	24.00	23.34	23.48	23.38
			50	0	24.00	23.36	23.47	23.51
		16QAM	1	0	24.00	23.46	23.61	23.66
			1	24	24.00	23.68	23.80	23.84
			1	49	24.00	23.49	23.57	23.50
			25	0	23.00	22.37	22.43	22.64
			25	12	23.00	22.36	22.51	22.51
			25	24	23.00	22.38	22.47	22.38
			50	0	23.00	22.37	22.44	22.52

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	26.00	25.13	25.32	25.18
			1	12	26.00	25.34	25.40	25.23
			1	24	26.00	25.23	25.27	25.04
			12	0	24.50	24.29	24.41	24.24
			12	6	24.50	24.37	24.44	24.25
			12	11	24.50	24.30	24.34	24.13
			25	0	24.50	24.34	24.40	24.22
		16QAM	1	0	25.00	24.37	24.51	24.29
			1	12	25.00	24.46	24.55	24.42
			1	24	25.00	24.37	24.37	24.19
			12	0	23.50	23.31	23.41	23.23
			12	6	23.50	23.37	23.39	23.26
			12	11	23.50	23.29	23.32	23.14
			25	0	23.50	23.33	23.40	23.23
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	26.00	25.25	25.41	25.37
			1	24	26.00	25.49	25.51	25.43
			1	49	26.00	25.28	25.29	25.10
			25	0	25.00	24.44	24.56	24.44
			25	12	25.00	24.45	24.49	24.36

			25	24	25.00	24.44	24.39	24.26
			50	0	25.00	24.45	24.50	24.35
		16QAM	1	0	25.00	24.44	24.51	24.62
			1	24	25.00	24.67	24.68	24.64
			1	49	25.00	24.54	24.58	24.35
			25	0	24.00	23.43	23.56	23.45
			25	12	24.00	23.46	23.49	23.36
			25	24	24.00	23.40	23.40	23.26
			50	0	24.00	23.42	23.51	23.37
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	26.00	25.10	25.21	25.25
			1	37	26.00	25.35	25.42	25.37
			1	74	26.00	25.04	25.14	24.96
			36	0	24.50	24.39	24.47	24.43
			36	18	24.50	24.41	24.45	24.38
			36	37	24.50	24.30	24.30	24.20
			75	0	24.50	24.36	24.39	24.31
		16QAM	1	0	25.00	24.29	24.38	24.48
			1	37	25.00	24.55	24.57	24.49
			1	74	25.00	24.25	24.32	24.25
			36	0	23.50	23.33	23.45	23.42
			36	18	23.50	23.38	23.41	23.35
			36	37	23.50	23.26	23.28	23.17
			75	0	23.50	23.35	23.37	23.32
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	26.00	24.95	25.02	25.04
			1	49	26.00	25.39	25.46	25.48
			1	99	26.00	24.82	24.96	24.79
			50	0	25.00	24.42	24.53	24.45
			50	24	25.00	24.38	24.49	24.41
			50	49	25.00	24.29	24.27	24.21
			100	0	24.50	24.33	24.40	24.32
		16QAM	1	0	25.00	24.21	24.26	24.26
			1	49	25.00	24.61	24.75	24.71

			1	99	25.00	24.00	24.19	23.99
			50	0	24.00	23.42	23.51	23.46
			50	24	24.00	23.37	23.48	23.41
			50	49	24.00	23.25	23.26	23.21
			100	0	23.50	23.31	23.38	23.31

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	24.50	24.32	24.21	24.07
			1	2	24.50	24.46	24.26	24.21
			1	5	24.50	24.34	24.15	24.08
			3	0	24.50	24.43	24.29	24.20
			3	1	24.50	24.45	24.27	24.23
			3	2	24.50	24.47	24.26	24.20
			6	0	23.50	23.45	23.32	23.27
		16QAM	1	0	24.00	23.59	23.35	23.18
			1	2	24.00	23.69	23.46	23.34
			1	5	24.00	23.53	23.43	23.23
			3	0	23.50	23.35	23.26	23.17
			3	1	23.50	23.43	23.22	23.12
			3	2	23.50	23.36	23.25	23.04
			6	0	23.00	22.52	22.41	22.29
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	24.44	24.33	24.24
			1	7	24.50	24.43	24.29	24.20
			1	14	24.50	24.38	24.23	24.22
			8	0	24.00	23.50	23.38	23.32
			8	4	24.00	23.54	23.39	23.35
			8	7	24.00	23.48	23.35	23.29
			15	0	24.00	23.52	23.41	23.30
		16QAM	1	0	24.00	23.71	23.58	23.44
			1	7	24.00	23.65	23.50	23.42
			1	14	24.00	23.59	23.42	23.32
			8	0	23.00	22.55	22.46	22.36
			8	4	23.00	22.60	22.45	22.37

			8	7	23.00	22.54	22.40	22.34
			15	0	23.00	22.50	22.37	22.29
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
LTE Band 12	5MHz	QPSK	1	0	24.50	24.27	24.19	24.05
			1	12	24.50	24.36	24.24	24.14
			1	24	24.50	24.18	24.10	24.01
			12	0	23.50	23.41	23.36	23.27
			12	6	23.50	23.45	23.34	23.29
			12	11	23.50	23.33	23.29	23.17
			25	0	23.50	23.39	23.31	23.29
		16QAM	1	0	24.00	23.51	23.42	23.37
			1	12	24.00	23.62	23.52	23.28
			1	24	24.00	23.42	23.32	23.14
			12	0	22.50	22.39	22.33	22.25
			12	6	22.50	22.44	22.32	22.24
			12	11	22.50	22.33	22.27	22.16
			25	0	22.50	22.40	22.33	22.27
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	24.50	24.31	24.28	24.26
			1	24	24.50	24.43	24.35	24.26
			1	49	24.50	24.10	24.09	24.09
			25	0	23.50	23.49	23.42	23.35
			25	12	23.50	23.46	23.40	23.32
			25	24	23.50	23.41	23.28	23.18
			50	0	23.50	23.44	23.36	23.28
		16QAM	1	0	24.00	23.62	23.56	23.47
			1	24	24.00	23.70	23.59	23.56
			1	49	24.00	23.36	23.36	23.31
			25	0	22.50	22.49	22.42	22.37
			25	12	22.50	22.47	22.40	22.31
			25	24	22.50	22.40	22.27	22.17
			50	0	22.50	22.44	22.37	22.29

Band	Band	Modulation	RB	Tune-up	Channel/Frequency(MHz)
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	Width		Configuration		(dBm)			
			RB Size	RB Offset		23205/779.5	23230/782	23255/784.5
LTE Band 13	5MHz	QPSK	1	0	25.00	24.41	24.40	24.34
			1	12	25.00	24.49	24.49	24.44
			1	24	25.00	24.36	24.35	24.22
			12	0	24.00	23.46	23.48	23.56
			12	6	24.00	23.59	23.56	23.52
			12	11	24.00	23.53	23.43	23.41
			25	0	24.00	23.50	23.45	23.48
		16QAM	1	0	24.00	23.67	23.56	23.56
			1	12	24.00	23.61	23.63	23.72
			1	24	24.00	23.64	23.54	23.51
			12	0	23.00	22.42	22.49	22.59
			12	6	23.00	22.57	22.58	22.53
			12	11	23.00	22.52	22.44	22.44
			25	0	23.00	22.50	22.47	22.51

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		/	23230/782	/
LTE Band 13	10MHz	QPSK	1	0	25.00	/	24.47	/
			1	24	25.00	/	24.59	/
			1	49	25.00	/	24.33	/
			25	0	24.00	/	23.51	/
			25	12	24.00	/	23.59	/
			25	24	24.00	/	23.43	/
			50	0	23.50	/	23.48	/
		16QAM	1	0	24.00	/	23.65	/
			1	24	24.00	/	23.80	/
			1	49	24.00	/	23.64	/
			25	0	23.00	/	22.51	/
			25	12	23.00	/	22.59	/
			25	24	23.00	/	22.47	/
			50	0	22.50	/	22.46	/

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	24.50	24.27	24.21	24.15
			1	12	24.50	24.34	24.30	24.20
			1	24	24.50	24.16	24.13	24.10
			12	0	23.50	23.40	23.34	23.33
			12	6	23.50	23.44	23.38	23.32
			12	11	23.50	23.38	23.24	23.24
			25	0	23.50	23.42	23.31	23.32
		16QAM	1	0	24.00	23.45	23.42	23.41
			1	12	24.00	23.50	23.61	23.42
			1	24	24.00	23.45	23.27	23.16
			12	0	22.50	22.39	22.33	22.32
			12	6	22.50	22.42	22.41	22.27
			12	11	22.50	22.38	22.24	22.21
			25	0	22.50	22.42	22.31	22.30
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	24.50	24.34	24.36	24.29
			1	24	24.50	24.40	24.41	24.38
			1	49	24.50	24.15	24.17	24.14
			25	0	23.50	23.49	23.44	23.41
			25	12	23.50	23.42	23.42	23.41
			25	24	23.50	23.24	23.24	23.26
			50	0	23.50	23.38	23.36	23.35
		16QAM	1	0	24.00	23.60	23.62	23.47
			1	24	24.00	23.53	23.60	23.65
			1	49	24.00	23.37	23.30	23.17
			25	0	22.50	22.45	22.45	22.41
			25	12	22.50	22.43	22.42	22.39
			25	24	22.50	22.25	22.25	22.22
			50	0	22.50	22.36	22.37	22.33

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		39675/2498.5	40620/2593	41565/2687.5
LTE Band 41	5MHz	QPSK	1	0	26.00	25.18	25.27	25.32
			1	12	26.00	25.35	25.26	25.49
			1	24	26.00	25.29	25.06	25.61

			12	0	25.00	24.28	24.27	24.80
			12	6	25.00	24.34	24.25	24.93
			12	11	25.00	24.29	24.15	24.83
			25	0	25.00	24.29	24.18	24.87
		16QAM	1	0	25.50	24.30	24.36	24.91
			1	12	25.50	24.48	24.39	25.03
			1	24	25.50	24.46	24.20	24.92
			12	0	24.00	23.37	23.28	23.89
			12	6	24.00	23.63	23.26	23.93
			12	11	24.00	23.60	23.24	23.85
			25	0	24.00	23.79	23.27	23.92
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		39700/2501	40620/2593	41540/2685
LTE Band 41	10MHz	QPSK	1	0	26.00	25.71	25.84	25.79
			1	24	26.00	26.00	25.86	25.98
			1	49	26.00	25.88	25.51	25.80
			25	0	25.00	24.88	24.91	25.00
			25	12	25.00	24.93	24.80	24.99
			25	24	25.00	24.90	24.68	24.92
			50	0	25.50	24.93	24.82	25.01
		16QAM	1	0	25.50	24.85	25.00	24.99
			1	24	25.50	25.14	25.02	25.16
			1	49	25.50	25.00	24.66	25.00
			25	0	24.00	23.95	23.93	23.99
			25	12	24.00	23.97	23.85	24.00
			25	24	24.00	23.94	23.71	23.91
			50	0	24.00	23.95	23.87	23.99
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		39725/2503.5	40620/2593	41515/2682.5
LTE Band 41	15MHz	QPSK	1	0	26.00	25.58	25.75	25.67
			1	37	26.00	25.89	25.70	25.82
			1	74	26.00	25.70	25.29	25.64
			36	0	25.00	24.84	24.85	24.91
			36	18	25.00	24.91	24.74	24.90
			36	37	25.00	24.86	24.53	24.80
			75	0	25.00	24.85	24.69	24.86

		16QAM	1	0	25.50	24.70	24.88	24.85
			1	37	25.50	25.02	24.84	24.99
			1	74	25.50	24.82	24.44	24.82
			36	0	24.00	23.81	23.82	23.82
			36	18	24.00	23.88	23.71	23.83
			36	37	24.00	23.83	23.51	23.74
			75	0	24.00	23.88	23.72	23.83
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		39750/2506	40620/2593	41490/2680
LTE Band 41	20MHz	QPSK	1	0	26.00	25.43	25.62	25.54
			1	49	26.00	26.00	25.79	25.88
			1	99	26.00	25.40	25.11	25.48
			50	0	25.00	24.94	24.94	24.90
			50	24	25.00	24.93	24.74	24.88
			50	49	25.00	24.81	24.49	24.74
			100	0	25.00	24.91	24.75	24.84
		16QAM	1	0	25.50	24.57	24.78	24.73
			1	49	25.50	25.12	24.93	25.06
			1	99	25.50	24.57	24.28	24.67
			50	0	24.00	23.97	23.98	23.91
			50	24	24.00	23.95	23.78	23.86
			50	49	24.00	23.84	23.54	23.73
			100	0	24.00	23.93	23.77	23.82

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		131979/1710.7	132322/1745	132665/1779.3
LTE Band 66	1.4MHz	QPSK	1	0	26.00	25.07	25.05	25.80
			1	2	26.00	25.18	25.15	25.85
			1	5	26.00	25.09	25.05	25.78
			3	0	26.00	25.13	25.17	25.91
			3	1	26.00	24.77	25.20	25.95
			3	2	26.00	24.70	25.17	25.89
			6	0	25.00	23.72	24.24	24.96
		16QAM	1	0	25.50	23.75	24.25	24.92
			1	2	25.50	23.88	24.24	25.04
			1	5	25.50	23.75	24.29	24.86

			3	0	25.00	23.58	24.66	24.80
			3	1	25.00	23.68	24.68	24.84
			3	2	25.00	23.59	24.67	24.77
			6	0	24.00	22.79	23.74	23.99
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	3MHz	QPSK	1	0	26.00	25.16	25.66	25.38
			1	7	26.00	25.20	25.36	25.39
			1	14	26.00	25.21	25.68	25.32
			8	0	25.00	24.26	24.70	24.47
			8	4	25.00	24.32	24.74	24.48
			8	7	25.00	24.28	24.72	24.42
			15	0	25.00	24.31	24.68	24.48
		16QAM	1	0	25.00	24.43	24.86	24.57
			1	7	25.00	24.40	24.82	24.58
			1	14	25.00	24.41	24.77	24.49
			8	0	24.00	23.32	23.44	23.51
			8	4	24.00	23.36	23.44	23.49
			8	7	24.00	23.35	23.45	23.42
			15	0	23.50	23.31	23.32	23.45
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	26.00	24.53	25.08	25.25
			1	12	26.00	24.73	25.18	25.37
			1	24	26.00	24.62	25.08	25.19
			12	0	24.50	23.71	24.21	24.45
			12	6	24.50	23.78	24.29	24.44
			12	11	24.50	23.76	24.20	24.30
			25	0	24.50	23.74	24.22	24.41
		16QAM	1	0	25.00	23.88	24.24	24.51
			1	12	25.00	23.93	24.48	24.61
			1	24	25.00	23.87	24.23	24.37
			12	0	23.50	22.71	23.19	23.41
			12	6	23.50	22.77	23.25	23.43
			12	11	23.50	22.73	23.18	23.25
			25	0	23.50	22.75	23.23	23.39

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	26.00	24.62	25.07	25.38
			1	24	26.00	24.88	25.30	25.52
			1	49	26.00	24.81	25.19	25.25
			25	0	25.00	23.79	24.28	24.58
			25	12	25.00	23.91	24.33	24.55
			25	24	25.00	23.92	24.34	24.41
			50	0	25.00	23.89	24.32	24.53
		16QAM	1	0	25.00	23.94	24.38	24.59
			1	24	25.00	24.07	24.61	24.72
			1	49	25.00	24.08	24.40	24.32
			25	0	24.00	22.81	23.26	23.57
			25	12	24.00	22.92	23.33	23.51
			25	24	24.00	22.91	23.34	23.39
			50	0	24.00	22.88	23.31	23.50
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	26.00	24.49	24.95	25.24
			1	37	26.00	24.84	25.18	25.41
			1	74	26.00	24.83	25.07	25.14
			36	0	25.00	23.78	24.22	24.53
			36	18	25.00	23.93	24.29	24.53
			36	37	25.00	23.97	24.30	24.40
			75	0	24.50	23.87	24.26	24.46
		16QAM	1	0	25.00	23.80	24.09	24.53
			1	37	25.00	24.02	24.45	24.63
			1	74	25.00	24.03	24.40	24.32
			36	0	24.00	22.77	23.18	23.48
			36	18	24.00	22.88	23.26	23.50
			36	37	24.00	22.94	23.26	23.36
			75	0	23.50	22.85	23.24	23.42
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		132072/1720	132322/1745	132572/1770

LTE Band 66	20MHz	QPSK	1	0	26.00	24.37	24.77	25.07
			1	49	26.00	24.92	25.25	25.49
			1	99	26.00	24.78	24.98	25.01
			50	0	25.00	23.82	24.25	24.59
			50	24	25.00	23.97	24.31	24.55
			50	49	25.00	24.04	24.30	24.35
			100	0	24.50	23.91	24.25	24.46
		16QAM	1	0	25.00	23.59	24.06	24.33
			1	49	25.00	24.13	24.56	24.74
			1	99	25.00	23.98	24.24	24.20
			50	0	24.00	22.81	23.23	23.56
			50	24	24.00	22.95	23.30	23.52
			50	49	24.00	23.02	23.29	23.34
			100	0	23.50	22.88	23.23	23.44

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		133147/665.5	133297/680.5	133447/695.5
LTE Band 71	5MHz	QPSK	1	0	24.50	24.03	23.91	23.92
			1	12	24.50	24.20	23.99	24.04
			1	24	24.50	24.07	23.78	23.95
			12	0	23.50	23.13	23.01	23.10
			12	6	23.50	23.29	23.08	23.15
			12	11	23.50	23.20	22.98	23.06
			25	0	23.50	23.17	23.02	23.12
		16QAM	1	0	23.50	23.31	23.20	23.11
			1	12	23.50	23.37	23.15	23.29
			1	24	23.50	23.28	23.07	23.21
			12	0	22.50	22.07	21.99	22.05
			12	6	22.50	22.27	22.06	22.12
			12	11	22.50	22.14	21.98	22.05
			25	0	22.50	22.18	22.02	22.11
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		133172/668	133297/680.5	133422/693
LTE Band 71	10MHz	QPSK	1	0	24.50	24.15	24.01	23.91
			1	24	24.50	24.33	24.11	24.15
			1	49	24.50	24.05	23.81	24.00

			25	0	23.50	23.27	23.08	23.14
			25	12	23.50	23.31	23.11	23.12
			25	24	23.50	23.26	22.99	23.06
			50	0	23.50	23.30	23.06	23.11
		16QAM	1	0	24.00	23.42	23.24	23.23
			1	24	24.00	23.57	23.46	23.43
			1	49	24.00	23.28	23.11	23.23
			25	0	22.50	22.30	22.10	22.14
			25	12	22.50	22.32	22.11	22.16
			25	24	22.50	22.28	22.03	22.07
			50	0	22.50	22.29	22.07	22.12
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		133197/670.5	133297/680.5	133397/690.5
LTE Band 71	15MHz	QPSK	1	0	24.50	24.01	23.98	23.80
			1	37	24.50	24.19	23.98	23.97
			1	74	24.50	23.81	23.73	23.88
			36	0	23.50	23.23	23.04	22.99
			36	18	23.50	23.23	23.04	23.08
			36	37	23.50	23.14	22.89	23.06
			75	0	23.50	23.17	22.97	23.04
		16QAM	1	0	23.50	23.24	23.22	23.09
			1	37	23.50	23.48	23.28	23.19
			1	74	23.50	23.16	23.07	23.06
			36	0	22.50	22.20	22.00	22.00
			36	18	22.50	22.20	22.00	22.05
			36	37	22.50	22.10	21.87	22.01
			75	0	22.50	22.17	21.98	22.04
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		133222/673	133322/683	133372/688
LTE Band 71	20MHz	QPSK	1	0	24.50	23.86	23.87	23.73
			1	49	24.50	24.19	24.03	23.97
			1	99	24.50	23.61	23.62	23.68
			50	0	23.50	23.20	23.05	23.06
			50	24	23.50	23.16	23.05	23.01
			50	49	23.50	23.11	22.87	23.00
			100	0	23.50	23.15	22.97	23.04

16QAM	1	0	24.00	23.16	23.11	22.89
	1	49	24.00	23.52	23.29	23.28
	1	99	24.00	22.87	22.87	22.88
	50	0	22.50	22.20	22.05	22.06
	50	24	22.50	22.15	22.04	22.02
	50	49	22.50	22.10	21.87	22.00
	100	0	22.50	22.16	21.97	22.03

7.4. WLAN & Bluetooth Output Power

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11b	1	2412	17.00	16.13
	6	2437	17.00	15.87
	11	2462	17.00	16.56
802.11g	1	2412	14.50	13.93
	6	2437	14.50	13.79
	11	2462	14.50	14.37
802.11n HT20	1	2412	13.00	12.88
	6	2437	13.00	12.66
	11	2462	13.00	12.97
802.11n HT40	3	2422	13.50	12.78
	6	2437	13.50	12.57
	9	2452	13.50	13.05

NOTE: Power measurement results of WLAN 2.4G.

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11a	36	5180	11.00	10.39
	40	5200	11.00	10.94
	48	5240	11.00	10.61
802.11n HT20	36	5180	11.00	10.09
	40	5200	11.00	10.72
	48	5240	11.00	10.46
802.11n HT40	38	5190	10.50	8.53
	46	5230	10.50	10.29
802.11ac VHT20	36	5180	11.00	10.35
	40	5200	11.00	10.80
	48	5240	11.00	10.45
802.11ac VHT40	38	5190	9.50	8.86

	46	5230	9.50	9.23
802.11ac VHT80	42	5210	10.00	9.98

NOTE: Power measurement results of WLAN 5.2G.

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11a	149	5745	10.50	10.49
	157	5785	10.50	10.27
	165	5825	10.50	9.91
802.11n HT20	149	5745	10.50	10.22
	157	5785	10.50	10.08
	165	5825	10.50	9.71
802.11n HT40	151	5755	11.00	10.34
	159	5795	11.00	10.55
802.11ac VHT20	149	5745	10.50	10.44
	157	5785	10.50	10.06
	165	5825	10.50	9.91
802.11ac VHT40	151	5755	11.00	10.32
	159	5795	11.00	10.51
802.11ac VHT80	155	5775	11.00	10.50

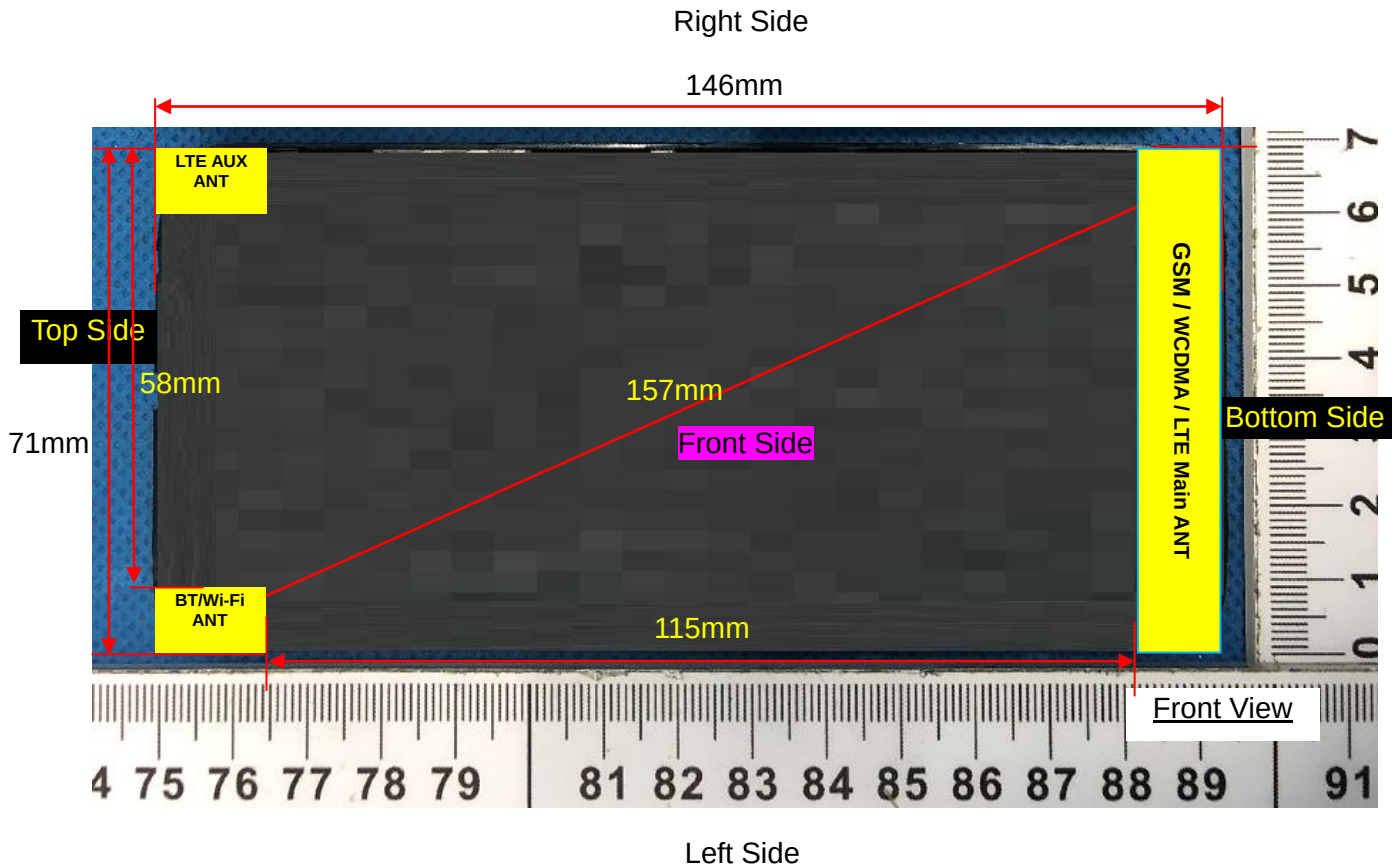
NOTE: Power measurement results of WLAN 5.8G.

BR+EDR	Output Power (dBm)				
	Channel	Tune-up	Data Rates		
			1M	2M	3M
	0CH	5.500	5.376	4.720	4.824
	39CH	6.500	6.024	5.577	5.466
	78CH	6.000	5.335	4.793	4.869

BLE	Channel	Tune-up (dBm)	Output Power (dBm)	
			1M	2M
	0CH	0.000	-0.351	-0.352
	19CH	-1.500	-1.657	-1.672
	39CH	0.000	-0.451	-0.407

NOTE: Power measurement results of Bluetooth.

8. Antenna Location



Note: Since the confidentiality request of EUT, the antenna location example diagram see as above.

Distance of the Antenna to the EUT surface/edge						
Antennas	Front Side	Back Side	Left Side	Right Side	Top Side	Bottom Side
WWAN Main ANT	≤ 25mm	≤ 25mm	≤ 25mm	≤ 25mm	> 25mm	≤ 25mm
WLAN & Bluetooth	≤ 25mm	≤ 25mm	≤ 25mm	> 25mm	≤ 25mm	>25mm
Positions for SAR tests						
Antennas	Front Side	Back Side	Left Side	Right Side	Top Side	Bottom Side
WWAN Main ANT	Yes	Yes	Yes	Yes	NO	Yes
WLAN & Bluetooth	Yes	Yes	Yes	NO	Yes	NO

9. Stand-alone SAR test exclusion

Refer to FCC KDB 447498D01, the 1-g SAR and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f_{(\text{GHz})}}]$$

 ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where:

- $f_{(\text{GHz})}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine

SAR test exclusion.

Mode	P _{max} (dBm)	P _{max} (mW)	Distance (mm)	f (GHz)	Calculation Result	SAR Exclusion threshold	SAR test exclusion
Bluetooth	6.50	4.47	5	2.480	1.41	3	Yes

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 mm is applied to determine SAR test exclusion.

Mode	Position	P _{max} (dBm)	P _{max} (mW)	Distance (mm)	f (GHz)	x	Estimated SAR (W/Kg)
Bluetooth	Head	6.50	4.47	5	2.48	7.5	0.188
Bluetooth	Body	6.50	4.47	10	2.48	7.5	0.094
Bluetooth	Hotspot	6.50	4.47	10	2.48	7.5	0.094

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 4TS)	0.622	0.448	-4.14	28.06	28.50	0.688	2022/9/12	1#
Left Tilt 15 Degree	189/836.4	GPRS(GMSK 4TS)	0.322	0.232	0.06	28.06	28.50	0.356	2022/9/12	
Right Cheek	189/836.4	GPRS(GMSK 4TS)	0.530	0.378	2.72	28.06	28.50	0.587	2022/9/12	
Right Tilt 15 Degree	189/836.4	GPRS(GMSK 4TS)	0.262	0.189	0.09	28.06	28.50	0.290	2022/9/12	

NOTE: Head SAR test results of GSM850.

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	189/836.4	GPRS(GMSK 4TS)	0.276	0.200	0.91	28.06	28.50	0.305	2022/9/12	
Back Side	189/836.4	GPRS(GMSK 4TS)	0.420	0.307	-1.05	28.06	28.50	0.465	2022/9/12	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 4TS)	0.276	0.200	0.91	28.06	28.50	0.305	2022/9/12	
Back Side	189/836.4	GPRS(GMSK 4TS)	0.420	0.307	-1.05	28.06	28.50	0.465	2022/9/12	2#
Left Side	189/836.4	GPRS(GMSK 4TS)	0.132	0.095	-0.32	28.06	28.50	0.146	2022/9/12	
Right Side	189/836.4	GPRS(GMSK 4TS)	0.129	0.092	2.26	28.06	28.50	0.143	2022/9/12	
Bottom Side	189/836.4	GPRS(GMSK 4TS)	0.235	0.163	-2.93	28.06	28.50	0.260	2022/9/12	

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 3TS)	0.389	0.233	2.29	26.42	27.00	0.445	2022/9/14	3#
Left Tilt 15 Degree	661/1880	GPRS(GMSK 3TS)	0.231	0.138	2.68	26.42	27.00	0.264	2022/9/14	
Right Cheek	661/1880	GPRS(GMSK 3TS)	0.336	0.195	0.98	26.42	27.00	0.384	2022/9/14	
Right Tilt 15	661/1880	GPRS(GMSK 3TS)	0.167	0.099	0.12	26.42	27.00	0.191	2022/9/14	

Degree		3TS)								
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NOTE: Head SAR test results of GSM1900

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	661/1880	GPRS(GMSK 3TS)	0.498	0.275	0.83	26.42	27.00	0.569	2022/9/14	
Back Side	661/1880	GPRS(GMSK 3TS)	0.809	0.452	0.70	26.42	27.00	0.925	2022/9/14	
Back Side	512/1850.2	GPRS(GMSK 3TS)	0.691	0.390	-1.26	26.50	27.00	0.775	2022/9/14	
Back Side	810/1909.8	GPRS(GMSK 3TS)	0.867	0.491	0.66	26.34	27.00	1.009	2022/9/14	4#
Back Side Repeated	810/1909.8	GPRS(GMSK 3TS)	0.859	0.487	0.35	26.34	27.00	1.000	2022/9/14	

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 3TS)	0.498	0.275	0.83	26.42	27.00	0.569	2022/9/14	
Back Side	661/1880	GPRS(GMSK 3TS)	0.809	0.452	0.70	26.42	27.00	0.925	2022/9/14	
Left Side	661/1880	GPRS(GMSK 3TS)	0.246	0.133	-3.48	26.42	27.00	0.281	2022/9/14	
Right Side	661/1880	GPRS(GMSK 3TS)	0.252	0.135	-0.61	26.42	27.00	0.288	2022/9/14	
Bottom Side	661/1880	GPRS(GMSK 3TS)	0.415	0.230	2.41	26.42	27.00	0.474	2022/9/14	
Back Side	512/1850.2	GPRS(GMSK 3TS)	0.691	0.390	-1.26	26.50	27.00	0.775	2022/9/14	
Back Side	810/1909.8	GPRS(GMSK 3TS)	0.867	0.491	0.66	26.34	27.00	1.009	2022/9/14	4#
Back Side Repeated	810/1909.8	GPRS(GMSK 3TS)	0.859	0.487	0.35	26.34	27.00	1.000	2022/9/14	

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	0.316	0.195	-1.74	21.61	22.00	0.346	2022/9/14	5#
Left Tilt 15 Degree	9400/1880	RMC12.2K	0.187	0.114	-2.72	21.61	22.00	0.205	2022/9/14	
Right Cheek	9400/1880	RMC12.2K	0.299	0.185	-0.33	21.61	22.00	0.327	2022/9/14	
Right Tilt 15 Degree	9400/1880	RMC12.2K	0.155	0.091	-0.41	21.61	22.00	0.170	2022/9/14	

NOTE: Head SAR test results of WCDMA Band 2

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	9400/1880	RMC12.2K	0.426	0.241	1.18	21.61	22.00	0.466	2022/9/14	
Back Side	9400/1880	RMC12.2K	0.682	0.394	-1.24	21.61	22.00	0.746	2022/9/14	6#

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	0.426	0.241	1.18	21.61	22.00	0.466	2022/9/14	
Back Side	9400/1880	RMC12.2K	0.682	0.394	-1.24	21.61	22.00	0.746	2022/9/14	6#
Left Side	9400/1880	RMC12.2K	0.210	0.120	-1.28	21.61	22.00	0.230	2022/9/14	
Right Side	9400/1880	RMC12.2K	0.210	0.116	-2.38	21.61	22.00	0.230	2022/9/14	
Bottom Side	9400/1880	RMC12.2K	0.345	0.189	0.87	21.61	22.00	0.377	2022/9/14	

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	Tune-up	Scaled	Date	Plot
			1-g	10-g		Power (dBm)	Power (dBm)	SAR 1-g		

								(W/Kg)		
Left Cheek	1413/1732.6	RMC12.2K	0.308	0.197	-0.65	22.20	22.50	0.330	2022/9/21	7#
Left Tilt 15 Degree	1413/1732.6	RMC12.2K	0.163	0.100	-3.25	22.20	22.50	0.175	2022/9/21	
Right Cheek	1413/1732.6	RMC12.2K	0.266	0.163	2.09	22.20	22.50	0.285	2022/9/21	
Right Tilt 15 Degree	1413/1732.6	RMC12.2K	0.128	0.082	3.22	22.20	22.50	0.137	2022/9/21	

NOTE: Head SAR test results of WCDMA Band 2

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	1413/1732.6	RMC12.2K	0.456	0.280	-3.26	22.20	22.50	0.489	2022/9/21	
Back Side	1413/1732.6	RMC12.2K	0.719	0.441	-0.62	22.20	22.50	0.770	2022/9/21	8#

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	1413/1732.6	RMC12.2K	0.456	0.280	-3.26	22.20	22.50	0.489	2022/9/21	
Back Side	1413/1732.6	RMC12.2K	0.719	0.441	-0.62	22.20	22.50	0.770	2022/9/21	8#
Left Side	1413/1732.6	RMC12.2K	0.225	0.132	-3.97	22.20	22.50	0.241	2022/9/21	
Right Side	1413/1732.6	RMC12.2K	0.228	0.134	-0.39	22.20	22.50	0.244	2022/9/21	
Bottom Side	1413/1732.6	RMC12.2K	0.360	0.212	-3.50	22.20	22.50	0.386	2022/9/21	

NOTE: Hotspot SAR test results of WCDMA Band 2

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	0.354	0.263	-0.42	22.18	22.50	0.381	2022/9/12	9#
Left Tilt 15 Degree	4182/836.4	RMC12.2K	0.204	0.150	1.45	22.18	22.50	0.220	2022/9/12	
Right Cheek	4182/836.4	RMC12.2K	0.308	0.217	-3.39	22.18	22.50	0.332	2022/9/12	
Right Tilt 15 Degree	4182/836.4	RMC12.2K	0.164	0.118	-2.23	22.18	22.50	0.177	2022/9/12	

NOTE: Head SAR test results of WCDMA Band 5

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	4182/836.4	RMC12.2K	0.180	0.132	1.11	22.18	22.50	0.194	2022/9/12	
Back Side	4182/836.4	RMC12.2K	0.283	0.212	0.21	22.18	22.50	0.305	2022/9/12	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	0.180	0.132	1.11	22.18	22.50	0.194	2022/9/12	
Back Side	4182/836.4	RMC12.2K	0.283	0.212	0.21	22.18	22.50	0.305	2022/9/12	10#
Left Side	4182/836.4	RMC12.2K	0.087	0.065	-0.14	22.18	22.50	0.094	2022/9/12	
Right Side	4182/836.4	RMC12.2K	0.093	0.070	-1.10	22.18	22.50	0.100	2022/9/12	
Bottom Side	4182/836.4	RMC12.2K	0.145	0.104	2.75	22.18	22.50	0.156	2022/9/12	

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)	0.527	0.319	0.08	25.11	26.00	0.647	2022/9/14	17#
Left Tilt 15 Degree	18900/1880	20M QPSK(1,49)	0.296	0.176	-3.17	25.11	26.00	0.363	2022/9/14	
Right Cheek	18900/1880	20M QPSK(1,49)	0.449	0.261	-1.36	25.11	26.00	0.551	2022/9/14	
Right Tilt 15 Degree	18900/1880	20M QPSK(1,49)	0.210	0.121	-0.57	25.11	26.00	0.258	2022/9/14	
50%RB										
Left Cheek	18900/1880	20M QPSK(50,0)	0.292	0.170	-0.60	24.19	24.50	0.314	2022/9/14	
Left Tilt 15	18900/1880	20M	0.158	0.095	1.49	24.19	24.50	0.170	2022/9/14	

Degree		QPSK(50,0)								
Right Cheek	18900/1880	20M QPSK(50,0)	0.237	0.148	2.64	24.19	24.50	0.255	2022/9/14	
Right Tilt 15 Degree	18900/1880	20M QPSK(50,0)	0.125	0.069	-0.35	24.19	24.50	0.134	2022/9/14	

NOTE: Head SAR test results of LTE Band 2

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	18900/1880	20M QPSK(1,49)	0.650	0.383	0.59	25.11	26.00	0.798	2022/9/14	
Back Side	18900/1880	20M QPSK(1,49)	1.052	0.648	-2.48	25.11	26.00	1.291	2022/9/14	18#
Back Side Repeated	18900/1880	20M QPSK(1,49)	1.048	0.642	1.20	25.11	26.00	1.286	2022/9/14	
Back Side with earphone	18900/1880	20M QPSK(1,49)	1.045	0.645	2.37	25.11	26.00	1.283	2022/9/14	
Back Side	18700/1860	20M QPSK(1,49)	0.979	0.559	-0.66	25.00	26.00	1.232	2022/9/14	
Back Side	19100/1900	20M QPSK(1,49)	1.034	0.562	1.25	25.20	26.00	1.243	2022/9/14	
50%RB										
Front Side	18900/1880	20M QPSK(50,0)	0.382	0.204	1.76	24.19	24.50	0.410	2022/9/14	
Back Side	18900/1880	20M QPSK(50,0)	0.672	0.332	-3.41	24.19	24.50	0.722	2022/9/14	
100%RB										
Back Side	18900/1880	20M QPSK(100,0)	0.661	0.326	1.05	24.09	24.50	0.726	2022/9/14	

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)	0.650	0.383	0.59	25.11	26.00	0.798	2022/9/14	
Back Side	18900/1880	20M QPSK(1,49)	1.052	0.648	-2.48	25.11	26.00	1.291	2022/9/14	18#
Back Side Repeated	18900/1880	20M QPSK(1,49)	1.048	0.642	1.20	25.11	26.00	1.286	2022/9/14	
Back Side with earphone	18900/1880	20M QPSK(1,49)	1.045	0.645	2.37	25.11	26.00	1.283	2022/9/14	
Left Side	18900/1880	20M QPSK(1,49)	0.351	0.195	3.85	25.11	26.00	0.431	2022/9/14	
Right Side	18900/1880	20M QPSK(1,49)	0.348	0.196	-1.67	25.11	26.00	0.427	2022/9/14	
Bottom Side	18900/1880	20M QPSK(1,49)	0.595	0.318	2.64	25.11	26.00	0.730	2022/9/14	
Back Side	18700/1860	20M QPSK(1,49)	0.979	0.559	-0.66	25.00	26.00	1.232	2022/9/14	
Back Side	19100/1900	20M QPSK(1,49)	1.034	0.562	1.25	25.20	26.00	1.243	2022/9/14	
50%RB										
Front Side	18900/1880	20M QPSK(50,0)	0.382	0.204	1.76	24.19	24.50	0.410	2022/9/14	
Back Side	18900/1880	20M QPSK(50,0)	0.672	0.332	-3.41	24.19	24.50	0.722	2022/9/14	
Left Side	18900/1880	20M QPSK(50,0)	0.203	0.113	3.63	24.19	24.50	0.218	2022/9/14	
Right Side	18900/1880	20M QPSK(50,0)	0.180	0.099	2.54	24.19	24.50	0.193	2022/9/14	
Bottom Side	18900/1880	20M QPSK(50,0)	0.326	0.167	3.67	24.19	24.50	0.350	2022/9/14	
100%RB										
Back Side	18900/1880	20M QPSK(100,0)	0.661	0.326	1.05	24.09	24.50	0.726	2022/9/14	

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)	0.491	0.309	0.26	25.28	25.50	0.517	2022/9/21	19#
Left Tilt 15 Degree	20175/1732.5	20M QPSK(1,49)	0.278	0.175	-3.40	25.28	25.50	0.292	2022/9/21	
Right Cheek	20175/1732.5	20M QPSK(1,49)	0.451	0.272	1.74	25.28	25.50	0.474	2022/9/21	
Right Tilt 15 Degree	20175/1732.5	20M QPSK(1,49)	0.203	0.124	-2.80	25.28	25.50	0.214	2022/9/21	
50%RB										
Left Cheek	20175/1732.5	20M QPSK(50,24)	0.289	0.173	-1.06	24.35	24.50	0.299	2022/9/21	
Left Tilt 15 Degree	20175/1732.5	20M QPSK(50,24)	0.151	0.101	-4.27	24.35	24.50	0.156	2022/9/21	
Right Cheek	20175/1732.5	20M QPSK(50,24)	0.264	0.153	3.91	24.35	24.50	0.273	2022/9/21	
Right Tilt 15 Degree	20175/1732.5	20M QPSK(50,24)	0.118	0.065	1.55	24.35	24.50	0.122	2022/9/21	

NOTE: Head SAR test results of LTE Band 4

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	20175/1732.5	20M QPSK(1,49)	0.660	0.390	-0.75	25.28	25.50	0.694	2022/9/21	
Back Side	20175/1732.5	20M QPSK(1,49)	1.092	0.672	-0.29	25.28	25.50	1.149	2022/9/21	
Back Side	20050/1720	20M QPSK(1,49)	1.104	0.679	0.03	24.91	25.50	1.265	2022/9/21	
Back Side	20300/1745	20M QPSK(1,49)	1.232	0.718	-1.73	25.24	25.50	1.308	2022/9/21	20#

Back Side Repeated	20300/1745	20M QPSK(1,49)	1.225	0.711	0.32	25.24	25.50	1.301	2022/9/21	
Back Side with earphone	20300/1745	20M QPSK(1,49)	1.219	0.705	1.34	25.24	25.50	1.294	2022/9/21	
50%RB										
Front Side	20175/1732.5	20M QPSK(50,24)	0.332	0.201	-1.21	24.35	24.50	0.344	2022/9/21	
Back Side	20175/1732.5	20M QPSK(50,24)	0.556	0.374	-0.26	24.35	24.50	0.576	2022/9/21	
100%RB										
Back Side	20175/1732.5	20M QPSK(100,0)	0.550	0.368	-0.94	24.27	24.50	0.580	2022/9/21	

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 Side	20175/1732.5	20M QPSK(1,49)	0.660	0.390	-0.75	25.28	25.50	0.694	2022/9/21	
Back Side	20175/1732.5	20M QPSK(1,49)	1.092	0.672	-0.29	25.28	25.50	1.149	2022/9/21	
Left Side	20175/1732.5	20M QPSK(1,49)	0.342	0.202	-2.20	25.28	25.50	0.360	2022/9/21	
Right Side	20175/1732.5	20M QPSK(1,49)	0.336	0.196	-3.64	25.28	25.50	0.353	2022/9/21	
Bottom Side	20175/1732.5	20M QPSK(1,49)	0.560	0.345	-1.75	25.28	25.50	0.589	2022/9/21	
Back Side	20050/1720	20M QPSK(1,49)	1.104	0.679	0.03	24.91	25.50	1.265	2022/9/21	
Back Side	20300/1745	20M QPSK(1,49)	1.232	0.718	-1.73	25.24	25.50	1.308	2022/9/21	20#
Back Side Repeated	20300/1745	20M QPSK(1,49)	1.225	0.711	0.32	25.24	25.50	1.301	2022/9/21	
Back Side with earphone	20300/1745	20M QPSK(1,49)	1.219	0.705	1.34	25.24	25.50	1.294	2022/9/21	

50%RB										
Front Side	20175/1732.5	20M QPSK(50,24)	0.332	0.201	-1.21	24.35	24.50	0.344	2022/9/21	
Back Side	20175/1732.5	20M QPSK(50,24)	0.556	0.374	-0.26	24.35	24.50	0.576	2022/9/21	
Left Side	20175/1732.5	20M QPSK(50,24)	0.204	0.104	0.71	24.35	24.50	0.211	2022/9/21	
Right Side	20175/1732.5	20M QPSK(50,24)	0.196	0.101	0.23	24.35	24.50	0.203	2022/9/21	
Bottom Side	20175/1732.5	20M QPSK(50,24)	0.318	0.189	-4.46	24.35	24.50	0.329	2022/9/21	
100%RB										
Back Side	20175/1732.5	20M QPSK(100,0)	0.550	0.368	-0.94	24.27	24.50	0.580	2022/9/21	

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)	0.640	0.458	-4.14	24.49	25.00	0.720	2022/9/12	21#
Left Tilt 15 Degree	20525/836.5	10M QPSK(1,24)	0.381	0.262	0.18	24.49	25.00	0.428	2022/9/12	
Right Cheek	20525/836.5	10M QPSK(1,24)	0.605	0.424	-2.87	24.49	25.00	0.680	2022/9/12	
Right Tilt 15 Degree	20525/836.5	10M QPSK(1,24)	0.300	0.215	1.49	24.49	25.00	0.337	2022/9/12	
50%RB										
Left Cheek	20525/836.5	10M QPSK(25,0)	0.352	0.260	-0.41	23.43	24.00	0.401	2022/9/12	
Left Tilt 15 Degree	20525/836.5	10M QPSK(25,0)	0.205	0.149	-2.41	23.43	24.00	0.234	2022/9/12	
Right Cheek	20525/836.5	10M QPSK(25,0)	0.309	0.218	0.14	23.43	24.00	0.352	2022/9/12	
Right Tilt 15	20525/836.5	10M	0.169	0.114	2.17	23.43	24.00	0.193	2022/9/12	

Degree		QPSK(25,0)								
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NOTE: Head SAR test results of LTE Band 5

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	20525/836.5	10M QPSK(1,24)	0.276	0.200	3.26	24.49	25.00	0.310	2022/9/12	
Back Side	20525/836.5	10M QPSK(1,24)	0.429	0.318	-1.38	24.49	25.00	0.482	2022/9/12	22#
50%RB										
Front Side	20525/836.5	10M QPSK(25,0)	0.146	0.109	-3.20	23.43	24.00	0.166	2022/9/12	
Back Side	20525/836.5	10M QPSK(25,0)	0.257	0.170	4.40	23.43	24.00	0.293	2022/9/12	

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 Side	20525/836.5	10M QPSK(1,24)	0.276	0.200	3.26	24.49	25.00	0.310	2022/9/12	
Back Side	20525/836.5	10M QPSK(1,24)	0.429	0.318	-1.38	24.49	25.00	0.482	2022/9/12	22#
Left Side	20525/836.5	10M QPSK(1,24)	0.138	0.102	0.31	24.49	25.00	0.155	2022/9/12	
Right Side	20525/836.5	10M QPSK(1,24)	0.132	0.094	3.81	24.49	25.00	0.148	2022/9/12	
Bottom Side	20525/836.5	10M QPSK(1,24)	0.215	0.155	-1.58	24.49	25.00	0.242	2022/9/12	
50%RB										
Front Side	20525/836.5	10M QPSK(25,0)	0.146	0.109	-3.20	23.43	24.00	0.166	2022/9/12	
Back Side	20525/836.5	10M QPSK(25,0)	0.257	0.170	4.40	23.43	24.00	0.293	2022/9/12	
Left Side	20525/836.5	10M	0.073	0.052	-3.53	23.43	24.00	0.083	2022/9/12	

		QPSK(25,0)								
Right Side	20525/836.5	10M QPSK(25,0)	0.071	0.056	2.80	23.43	24.00	0.081	2022/9/12	
Bottom Side	20525/836.5	10M QPSK(25,0)	0.108	0.087	0.67	23.43	24.00	0.123	2022/9/12	

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)	0.699	0.304	-1.44	25.46	26.00	0.792	2022/9/22	23#
Left Tilt 15 Degree	21100/2535	20M QPSK(1,49)	0.350	0.149	0.79	25.46	26.00	0.396	2022/9/22	
Right Cheek	21100/2535	20M QPSK(1,49)	0.654	0.282	-1.64	25.46	26.00	0.741	2022/9/22	
Right Tilt 15 Degree	21100/2535	20M QPSK(1,49)	0.300	0.129	-3.20	25.46	26.00	0.340	2022/9/22	
50%RB										
Left Cheek	21100/2535	20M QPSK(50,0)	0.399	0.154	2.42	24.53	25.00	0.445	2022/9/22	
Left Tilt 15 Degree	21100/2535	20M QPSK(50,0)	0.192	0.086	3.01	24.53	25.00	0.214	2022/9/22	
Right Cheek	21100/2535	20M QPSK(50,0)	0.331	0.166	1.46	24.53	25.00	0.369	2022/9/22	
Right Tilt 15 Degree	21100/2535	20M QPSK(50,0)	0.173	0.077	0.56	24.53	25.00	0.193	2022/9/22	

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	0.666	0.360	2.17	25.46	26.00	0.754	2022/9/22	

		QPSK(1,49)								
Back Side	21100/2535	20M QPSK(1,49)	1.104	0.621	-0.78	25.46	26.00	1.250	2022/9/22	24#
Back Side Repeated	21100/2535	20M QPSK(1,49)	1.095	0.615	1.20	25.46	26.00	1.240	2022/9/22	
Back Side with earphone	21100/2535	20M QPSK(1,49)	1.088	0.610	2.16	25.46	26.00	1.232	2022/9/22	
Back Side	20850/2510	20M QPSK(1,49)	0.896	0.494	2.41	25.39	26.00	1.031	2022/9/22	
Back Side	21350/2560	20M QPSK(1,49)	0.930	0.518	-3.08	25.48	26.00	1.048	2022/9/22	
50%RB										
Front Side	21100/2535	20M QPSK(50,0)	0.365	0.213	-1.49	24.53	25.00	0.407	2022/9/22	
Back Side	21100/2535	20M QPSK(50,0)	0.659	0.316	1.91	24.53	25.00	0.734	2022/9/22	
100%RB										
Back Side	21100/2535	20M QPSK(100,0)	0.654	0.310	0.20	24.40	24.50	0.669	2022/9/22	

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)	0.666	0.360	2.17	25.46	26.00	0.754	2022/9/22	
Back Side	21100/2535	20M QPSK(1,49)	1.104	0.621	-0.78	25.46	26.00	1.250	2022/9/22	24#
Back Side Repeated	21100/2535	20M QPSK(1,49)	1.095	0.615	1.20	25.46	26.00	1.240	2022/9/22	
Back Side with earphone	21100/2535	20M QPSK(1,49)	1.088	0.610	2.16	25.46	26.00	1.232	2022/9/22	
Left Side	21100/2535	20M QPSK(1,49)	0.342	0.190	1.37	25.46	26.00	0.387	2022/9/22	
Right Side	21100/2535	20M QPSK(1,49)	0.339	0.181	1.78	25.46	26.00	0.384	2022/9/22	

Bottom Side	21100/2535	20M QPSK(1,49)	0.570	0.305	-0.31	25.46	26.00	0.645	2022/9/22	
Back Side	20850/2510	20M QPSK(1,49)	0.896	0.494	2.41	25.39	26.00	1.031	2022/9/22	
Back Side	21350/2560	20M QPSK(1,49)	0.930	0.518	-3.08	25.48	26.00	1.048	2022/9/22	
50%RB										
Front Side	21100/2535	20M QPSK(50,0)	0.365	0.213	-1.49	24.53	25.00	0.407	2022/9/22	
Back Side	21100/2535	20M QPSK(50,0)	0.659	0.316	1.91	24.53	25.00	0.734	2022/9/22	
Left Side	21100/2535	20M QPSK(50,0)	0.174	0.099	1.16	24.53	25.00	0.194	2022/9/22	
Right Side	21100/2535	20M QPSK(50,0)	0.177	0.098	-0.94	24.53	25.00	0.197	2022/9/22	
Bottom Side	21100/2535	20M QPSK(50,0)	0.287	0.173	0.77	24.53	25.00	0.320	2022/9/22	
100%RB										
Back Side	21100/2535	20M QPSK(100,0)	0.654	0.310	0.20	24.40	24.50	0.669	2022/9/22	

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(1,24)	0.706	0.544	0.31	24.35	24.50	0.731	2022/9/20	25#
Left Tilt 15 Degree	23095/707.5	10M QPSK(1,24)	0.383	0.280	-2.09	24.35	24.50	0.396	2022/9/20	
Right Cheek	23095/707.5	10M QPSK(1,24)	0.627	0.469	2.46	24.35	24.50	0.649	2022/9/20	
Right Tilt 15 Degree	23095/707.5	10M QPSK(1,24)	0.295	0.223	-1.13	24.35	24.50	0.305	2022/9/20	
50%RB										
Left Cheek	23095/707.5	10M	0.413	0.296	4.32	23.42	23.50	0.421	2022/9/20	

		QPSK(25,0)								
Left Tilt 15 Degree	23095/707.5	10M QPSK(25,0)	0.209	0.158	2.52	23.42	23.50	0.213	2022/9/20	
Right Cheek	23095/707.5	10M QPSK(25,0)	0.369	0.259	-1.91	23.42	23.50	0.376	2022/9/20	
Right Tilt 15 Degree	23095/707.5	10M QPSK(25,0)	0.176	0.122	2.59	23.42	23.50	0.179	2022/9/20	

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(1,24)	0.402	0.302	1.04	24.35	24.50	0.416	2022/9/20	
Back Side	23095/707.5	10M QPSK(1,24)	0.640	0.496	-0.05	24.35	24.50	0.662	2022/9/20	26#
50%RB										
Front Side	23095/707.5	10M QPSK(25,0)	0.220	0.156	-4.45	23.42	23.50	0.224	2022/9/20	
Back Side	23095/707.5	10M QPSK(25,0)	0.375	0.266	0.14	23.42	23.50	0.382	2022/9/20	

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(1,24)	0.402	0.302	1.04	24.35	24.50	0.416	2022/9/20	
Back Side	23095/707.5	10M QPSK(1,24)	0.640	0.496	-0.05	24.35	24.50	0.662	2022/9/20	26#
Left Side	23095/707.5	10M QPSK(1,24)	0.201	0.154	-3.89	24.35	24.50	0.208	2022/9/20	
Right Side	23095/707.5	10M QPSK(1,24)	0.198	0.149	-2.67	24.35	24.50	0.205	2022/9/20	
Bottom Side	23095/707.5	10M QPSK(1,24)	0.345	0.262	-3.95	24.35	24.50	0.357	2022/9/20	

50%RB										
Front Side	23095/707.5	10M QPSK(25,0)	0.220	0.156	-4.45	23.42	23.50	0.224	2022/9/20	
Back Side	23095/707.5	10M QPSK(25,0)	0.375	0.266	0.14	23.42	23.50	0.382	2022/9/20	
Left Side	23095/707.5	10M QPSK(25,0)	0.109	0.085	-1.47	23.42	23.50	0.111	2022/9/20	
Right Side	23095/707.5	10M QPSK(25,0)	0.113	0.089	0.73	23.42	23.50	0.115	2022/9/20	
Bottom Side	23095/707.5	10M QPSK(25,0)	0.177	0.139	4.31	23.42	23.50	0.180	2022/9/20	

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)	0.517	0.387	-0.40	24.59	25.00	0.568	2022/9/20	27#
Left Tilt 15 Degree	23230/782	10M QPSK(1,24)	0.305	0.226	0.27	24.59	25.00	0.335	2022/9/20	
Right Cheek	23230/782	10M QPSK(1,24)	0.449	0.336	1.49	24.59	25.00	0.493	2022/9/20	
Right Tilt 15 Degree	23230/782	10M QPSK(1,24)	0.220	0.165	3.30	24.59	25.00	0.242	2022/9/20	
50%RB										
Left Cheek	23230/782	10M QPSK(25,12)	0.295	0.215	1.32	23.59	24.00	0.324	2022/9/20	
Left Tilt 15 Degree	23230/782	10M QPSK(25,12)	0.156	0.131	1.43	23.59	24.00	0.171	2022/9/20	
Right Cheek	23230/782	10M QPSK(25,12)	0.236	0.185	-3.38	23.59	24.00	0.259	2022/9/20	
Right Tilt 15 Degree	23230/782	10M QPSK(25,12)	0.120	0.091	4.58	23.59	24.00	0.132	2022/9/20	

NOTE: Head SAR test results of LTE Band13

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)	0.300	0.224	2.06	24.59	25.00	0.330	2022/9/20	
Back Side	23230/782	10M QPSK(1,24)	0.487	0.368	0.12	24.59	25.00	0.535	2022/9/20	28#
50%RB										
Front Side	23230/782	10M QPSK(25,12)	0.157	0.115	4.79	23.59	24.00	0.173	2022/9/20	
Back Side	23230/782	10M QPSK(25,12)	0.264	0.209	-0.18	23.59	24.00	0.290	2022/9/20	

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)	0.300	0.224	2.06	24.59	25.00	0.330	2022/9/20	
Back Side	23230/782	10M QPSK(1,24)	0.487	0.368	0.12	24.59	25.00	0.535	2022/9/20	28#
Left Side	23230/782	10M QPSK(1,24)	0.156	0.112	-2.19	24.59	25.00	0.171	2022/9/20	
Right Side	23230/782	10M QPSK(1,24)	0.147	0.107	-1.86	24.59	25.00	0.162	2022/9/20	
Bottom Side	23230/782	10M QPSK(1,24)	0.265	0.192	-1.48	24.59	25.00	0.291	2022/9/20	
50%RB										
Front Side	23230/782	10M QPSK(25,12)	0.157	0.115	4.79	23.59	24.00	0.173	2022/9/20	
Back Side	23230/782	10M QPSK(25,12)	0.264	0.209	-0.18	23.59	24.00	0.290	2022/9/20	
Left Side	23230/782	10M QPSK(25,12)	0.084	0.062	0.95	23.59	24.00	0.092	2022/9/20	
Right Side	23230/782	10M	0.076	0.056	3.35	23.59	24.00	0.084	2022/9/20	

		QPSK(25,12)								
Bottom Side	23230/782	10M QPSK(25,12)	0.140	0.113	-0.44	23.59	24.00	0.154	2022/9/20	

NOTE: Hospot 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						
1RB										
Left Cheek	23790/710	10M QPSK(1,24)	0.738	0.570	0.07	24.41	24.50	0.753	2022/9/20	29#
Left Tilt 15 Degree	23790/710	10M QPSK(1,24)	0.437	0.338	0.52	24.41	24.50	0.446	2022/9/20	
Right Cheek	23790/710	10M QPSK(1,24)	0.668	0.495	0.85	24.41	24.50	0.682	2022/9/20	
Right Tilt 15 Degree	23790/710	10M QPSK(1,24)	0.360	0.264	-3.99	24.41	24.50	0.368	2022/9/20	
50%RB										
Left Cheek	23790/710	10M QPSK(25,0)	0.390	0.309	-1.16	23.44	23.50	0.395	2022/9/20	
Left Tilt 15 Degree	23790/710	10M QPSK(25,0)	0.219	0.170	-4.86	23.44	23.50	0.222	2022/9/20	
Right Cheek	23790/710	10M QPSK(25,0)	0.337	0.267	-0.57	23.44	23.50	0.342	2022/9/20	
Right Tilt 15 Degree	23790/710	10M QPSK(25,0)	0.187	0.143	-1.27	23.44	23.50	0.190	2022/9/20	

NOTE: Head SAR test results of LTE Band17

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	23790/710	10M QPSK(1,24)	0.426	0.320	-1.72	24.41	24.50	0.435	2022/9/20	
Back Side	23790/710	10M	0.666	0.516	-0.02	24.41	24.50	0.680	2022/9/20	30#

		QPSK(1,24)								
50%RB										
Front Side	23790/710	10M QPSK(25,0)	0.242	0.182	-4.69	23.44	23.50	0.245	2022/9/20	
Back Side	23790/710	10M QPSK(25,0)	0.368	0.306	0.64	23.44	23.50	0.373	2022/9/20	

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(1,24)	0.426	0.320	-1.72	24.41	24.50	0.435	2022/9/20	
Back Side	23790/710	10M QPSK(1,24)	0.666	0.516	-0.02	24.41	24.50	0.680	2022/9/20	30#
Left Side	23790/710	10M QPSK(1,24)	0.201	0.156	0.98	24.41	24.50	0.205	2022/9/20	
Right Side	23790/710	10M QPSK(1,24)	0.204	0.153	-3.23	24.41	24.50	0.208	2022/9/20	
Bottom Side	23790/710	10M QPSK(1,24)	0.340	0.250	2.85	24.41	24.50	0.347	2022/9/20	
50%RB										
Front Side	23790/710	10M QPSK(25,0)	0.242	0.182	-4.69	23.44	23.50	0.245	2022/9/20	
Back Side	23790/710	10M QPSK(25,0)	0.368	0.306	0.64	23.44	23.50	0.373	2022/9/20	
Left Side	23790/710	10M QPSK(25,0)	0.114	0.088	-3.43	23.44	23.50	0.116	2022/9/20	
Right Side	23790/710	10M QPSK(25,0)	0.108	0.090	-1.66	23.44	23.50	0.110	2022/9/20	
Bottom Side	23790/710	10M QPSK(25,0)	0.195	0.146	-0.84	23.44	23.50	0.198	2022/9/20	

NOTE: Hotspot SAR test results of LTE Band 17

10.1.13. SAR measurement Result of LTE Band 41

Test Position	Test	Mode	SAR Value	Power	Conducted	Tune-up	Scaled	Date	Plot
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of Head	channel /Freq.		(W/kg)		Drift(%)	Power (dBm)	Power (dBm)	SAR 1-g (W/Kg)		
			1-g	10-g						
1RB										
Left Cheek	40620/2593	20M QPSK(1,49)	0.530	0.264	-2.37	25.79	26.00	0.556	2022/9/22	31#
Left Tilt 15 Degree	40620/2593	20M QPSK(1,49)	0.297	0.145	-0.79	25.79	26.00	0.312	2022/9/22	
Right Cheek	40620/2593	20M QPSK(1,49)	0.472	0.230	-3.68	25.79	26.00	0.495	2022/9/22	
Right Tilt 15 Degree	40620/2593	20M QPSK(1,49)	0.219	0.104	1.50	25.79	26.00	0.230	2022/9/22	
50%RB										
Left Cheek	40620/2593	20M QPSK(50,0)	0.311	0.150	-2.41	24.94	25.00	0.315	2022/9/22	
Left Tilt 15 Degree	40620/2593	20M QPSK(50,0)	0.151	0.082	2.16	24.94	25.00	0.153	2022/9/22	
Right Cheek	40620/2593	20M QPSK(50,0)	0.282	0.133	2.36	24.94	25.00	0.286	2022/9/22	
Right Tilt 15 Degree	40620/2593	20M QPSK(50,0)	0.119	0.062	-0.04	24.94	25.00	0.121	2022/9/22	

NOTE: Head SAR test results of LTE Band41

Test Position of Body-Worn with 0mm	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	40620/2593	20M QPSK(1,49)	0.426	0.183	-1.95	25.79	26.00	0.447	2022/9/22	
Back Side	40620/2593	20M QPSK(1,49)	0.686	0.301	0.60	25.79	26.00	0.720	2022/9/22	32#
50%RB										
Front Side	40620/2593	20M QPSK(50,0)	0.216	0.105	-0.17	24.94	25.00	0.219	2022/9/22	
Back Side	40620/2593	20M QPSK(50,0)	0.364	0.160	-3.01	24.94	25.00	0.369	2022/9/22	

NOTE: Body-Worn SAR test results of LTE Band 41

Test Position of Hotspot with 0mm	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	40620/2593	20M QPSK(1,49)	0.426	0.183	-1.95	25.79	26.00	0.447	2022/9/22	
Back Side	40620/2593	20M QPSK(1,49)	0.686	0.301	0.60	25.79	26.00	0.720	2022/9/22	32#
Left Side	40620/2593	20M QPSK(1,49)	0.210	0.091	3.48	25.79	26.00	0.220	2022/9/22	
Right Side	40620/2593	20M QPSK(1,49)	0.219	0.095	-1.02	25.79	26.00	0.230	2022/9/22	
Bottom Side	40620/2593	20M QPSK(1,49)	0.360	0.153	2.41	25.79	26.00	0.378	2022/9/22	
50%RB										
Front Side	40620/2593	20M QPSK(50,0)	0.216	0.105	-0.17	24.94	25.00	0.219	2022/9/22	
Back Side	40620/2593	20M QPSK(50,0)	0.364	0.160	-3.01	24.94	25.00	0.369	2022/9/22	
Left Side	40620/2593	20M QPSK(50,0)	0.115	0.048	2.57	24.94	25.00	0.117	2022/9/22	
Right Side	40620/2593	20M QPSK(50,0)	0.110	0.050	4.09	24.94	25.00	0.112	2022/9/22	
Bottom Side	40620/2593	20M QPSK(50,0)	0.183	0.079	2.32	24.94	25.00	0.186	2022/9/22	

NOTE: Hotspot SAR test results of LTE Band 41

10.1.14. 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)	0.454	0.288	-1.05	25.25	26.00	0.540	2022/9/21	33#
Left Tilt 15	132322/1745	20M	0.257	0.160	-3.57	25.25	26.00	0.305	2022/9/21	

Degree		QPSK(1,49)								
Right Cheek	132322/1745	20M QPSK(1,49)	0.411	0.253	-1.44	25.25	26.00	0.488	2022/9/21	
Right Tilt 15 Degree	132322/1745	20M QPSK(1,49)	0.204	0.127	2.35	25.25	26.00	0.242	2022/9/21	
50%RB										
Left Cheek	132322/1745	20M QPSK(50,0)	0.256	0.157	-4.15	24.25	25.00	0.304	2022/9/21	
Left Tilt 15 Degree	132322/1745	20M QPSK(50,0)	0.142	0.091	0.86	24.25	25.00	0.169	2022/9/21	
Right Cheek	132322/1745	20M QPSK(50,0)	0.217	0.150	-0.22	24.25	25.00	0.258	2022/9/21	
Right Tilt 15 Degree	132322/1745	20M QPSK(50,0)	0.121	0.075	-2.39	24.25	25.00	0.144	2022/9/21	

NOTE: Head SAR test results of LTE Band66

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	132322/1745	20M QPSK(1,49)	0.660	0.404	2.50	25.25	26.00	0.784	2022/9/21	
Back Side	132322/1745	20M QPSK(1,49)	1.058	0.647	-0.40	25.25	26.00	1.257	2022/9/21	34#
Back Side Repeated	132322/1745	20M QPSK(1,49)	1.050	0.641	1.25	25.25	26.00	1.248	2022/9/21	
Back Side with earphone	132322/1745	20M QPSK(1,49)	1.047	0.638	0.56	25.25	26.00	1.244	2022/9/21	
Back Side	132072/1720	20M QPSK(1,49)	0.954	0.597	0.05	24.92	26.00	1.223	2022/9/21	
Back Side	132572/1770	20M QPSK(1,49)	0.970	0.657	0.95	25.49	26.00	1.091	2022/9/21	
50%RB										
Front Side	132322/1745	20M QPSK(50,0)	0.360	0.218	-2.88	24.25	25.00	0.428	2022/9/21	
Back Side	132322/1745	20M QPSK(50,0)	0.609	0.377	-2.39	24.25	25.00	0.724	2022/9/21	
100%RB										

Back Side	132322/1745	20M QPSK(100,0)	0.588	0.370	1.20	24.25	24.50	0.623	2022/9/21	
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NOTE: Hotspot SAR test results of LTE Band 66

10.1.15. SAR measurement Result of LTE Band 71

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	133322/683	20M QPSK(1,49)	0.563	0.443	0.51	24.03	24.50	0.627	2022/9/20	35#
Left Tilt 15 Degree	133322/683	20M QPSK(1,49)	0.304	0.227	1.25	24.03	24.50	0.339	2022/9/20	
Right Cheek	133322/683	20M QPSK(1,49)	0.529	0.400	-2.70	24.03	24.50	0.589	2022/9/20	
Right Tilt 15 Degree	133322/683	20M QPSK(1,49)	0.285	0.220	0.70	24.03	24.50	0.318	2022/9/20	
50%RB										
Left Cheek	133322/683	20M QPSK(50,0)	0.324	0.231	-2.01	23.05	23.50	0.359	2022/9/20	
Left Tilt 15 Degree	133322/683	20M QPSK(50,0)	0.176	0.129	-2.42	23.05	23.50	0.195	2022/9/20	
Right Cheek	133322/683	20M QPSK(50,0)	0.279	0.234	0.21	23.05	23.50	0.309	2022/9/20	
Right Tilt 15 Degree	133322/683	20M QPSK(50,0)	0.143	0.117	-2.64	23.05	23.50	0.159	2022/9/20	

NOTE: Head SAR test results of LTE Band71

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	133322/683	20M QPSK(1,49)	0.408	0.305	-3.96	24.03	24.50	0.455	2022/9/20	
Back Side	133322/683	20M QPSK(1,49)	0.635	0.494	0.26	24.03	24.50	0.708	2022/9/20	36#

50%RB										
Front Side	133322/683	20M QPSK(50,0)	0.233	0.159	4.94	23.05	23.50	0.258	2022/9/20	
Back Side	133322/683	20M QPSK(50,0)	0.333	0.254	-4.17	23.05	23.50	0.369	2022/9/20	

NOTE: Body-Worn SAR test results of LTE Band 71

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	133322/683	20M QPSK(1,49)	0.408	0.305	-3.96	24.03	24.50	0.455	2022/9/20	
Back Side	133322/683	20M QPSK(1,49)	0.635	0.494	0.26	24.03	24.50	0.708	2022/9/20	36#
Left Side	133322/683	20M QPSK(1,49)	0.204	0.154	-0.18	24.03	24.50	0.227	2022/9/20	
Right Side	133322/683	20M QPSK(1,49)	0.201	0.149	1.08	24.03	24.50	0.224	2022/9/20	
Bottom Side	133322/683	20M QPSK(1,49)	0.330	0.254	-0.63	24.03	24.50	0.368	2022/9/20	
50%RB										
Front Side	133322/683	20M QPSK(50,0)	0.233	0.159	4.94	23.05	23.50	0.258	2022/9/20	
Back Side	133322/683	20M QPSK(50,0)	0.333	0.254	-4.17	23.05	23.50	0.369	2022/9/20	
Left Side	133322/683	20M QPSK(50,0)	0.110	0.081	0.94	23.05	23.50	0.122	2022/9/20	
Right Side	133322/683	20M QPSK(50,0)	0.111	0.080	-0.08	23.05	23.50	0.123	2022/9/20	
Bottom Side	133322/683	20M QPSK(50,0)	0.171	0.151	3.61	23.05	23.50	0.190	2022/9/20	

NOTE: Hotspot SAR test results of LTE Band 71

10.1.16. SAR measurement Result of WLAN 2.4G

Test Position of Head	Test channel	Mode	SAR Value (W/kg)	Power Drift(%)	Conducted Power	Tune-up Power	Scaled SAR	Date	Plot
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	/Freq		1-g	10-g		(dBm)	(dBm)	1-g (W/Kg)		
Left Cheek	11/2462	802.11b	0.132	0.076	0.56	16.56	17.00	0.146	2022/9/07	15#
Left Tilt 15 Degree	11/2462	802.11b	0.077	0.043	0.29	16.56	17.00	0.085	2022/9/07	
Right Cheek	11/2462	802.11b	0.120	0.068	-3.99	16.56	17.00	0.133	2022/9/07	
Right Tilt 15 Degree	11/2462	802.11b	0.063	0.034	-1.55	16.56	17.00	0.070	2022/9/07	

NOTE: Head SAR test results of WLAN 2.4G

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	0.084	0.047	-1.16	16.56	17.00	0.093	2022/9/07	
Back Side	11/2462	802.11b	0.128	0.072	-1.59	16.56	17.00	0.142	2022/9/07	16#

NOTE: Body-Worn SAR test results of WLAN 2.4G

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	0.084	0.047	-1.16	16.56	17.00	0.093	2022/9/07	
Back Side	11/2462	802.11b	0.128	0.072	-1.59	16.56	17.00	0.142	2022/9/07	16#
Left Side	11/2462	802.11b	0.045	0.024	1.27	16.56	17.00	0.050	2022/9/07	
Top Side	11/2462	802.11b	0.048	0.026	1.90	16.56	17.00	0.053	2022/9/07	

NOTE: Hotspot SAR test results of WLAN 2.4G

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	40/5200	802.11a	0.204	0.092	-4.31	10.94	11.00	0.207	2022/9/16	11#
Left Tilt 15 Degree	40/5200	802.11a	0.121	0.052	1.23	10.94	11.00	0.123	2022/9/16	
Right Cheek	40/5200	802.11a	0.175	0.079	3.84	10.94	11.00	0.177	2022/9/16	
Right Tilt 15 Degree	40/5200	802.11a	0.093	0.040	-0.72	10.94	11.00	0.094	2022/9/16	

NOTE: Head SAR test results of WLAN 2.4G

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	40/5200	802.11a	0.072	0.044	-1.69	10.94	11.00	0.073	2022/9/16	
Back Side	40/5200	802.11a	0.110	0.069	4.46	10.94	11.00	0.112	2022/9/16	13#

NOTE: Body-Worn SAR test results of WLAN 5.2G

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	40/5200	802.11a	0.072	0.044	-1.69	10.94	11.00	0.073	2022/9/16	
Back Side	40/5200	802.11a	0.110	0.069	4.46	10.94	11.00	0.112	2022/9/16	13#
Left Side	40/5200	802.11a	0.033	0.020	-2.10	10.94	11.00	0.033	2022/9/16	
Top Side	40/5200	802.11a	0.042	0.025	0.46	10.94	11.00	0.043	2022/9/16	

NOTE: Hotspot SAR test results of WLAN 5.2G

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	159/5795	802.11n HT40	0.453	0.181	2.91	10.55	11.00	0.502	2022/9/15	12#
Left Tilt 15 Degree	159/5795	802.11n HT40	0.238	0.093	-0.80	10.55	11.00	0.264	2022/9/15	
Right Cheek	159/5795	802.11n HT40	0.413	0.162	-1.70	10.55	11.00	0.458	2022/9/15	
Right Tilt 15 Degree	159/5795	802.11n HT40	0.193	0.077	-1.54	10.55	11.00	0.214	2022/9/15	

NOTE: Head SAR test results of WLAN 2.4G

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	159/5795	802.11n HT40	0.120	0.056	-0.92	10.55	11.00	0.133	2022/9/15	

Back Side	159/5795	802.11n HT40	0.190	0.091	-0.64	10.55	11.00	0.211	2022/9/15	14#
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NOTE: Body-Worn SAR test results of WLAN 5.8G

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	159/5795	802.11n HT40	0.120	0.056	-0.92	10.55	11.00	0.133	2022/9/15	
Back Side	159/5795	802.11n HT40	0.190	0.091	-0.64	10.55	11.00	0.211	2022/9/15	14#
Left Side	159/5795	802.11n HT40	0.060	0.028	0.71	10.55	11.00	0.067	2022/9/15	
Top Side	159/5795	802.11n HT40	0.063	0.030	3.12	10.55	11.00	0.070	2022/9/15	

NOTE: Hotspot SAR test results of WLAN 5.8G

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 _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	DTS			
Head	Left Cheek	0.792	0.146	0.938	N/A	N/A
	Left Tilt 15 Degree	0.446	0.085	0.531	N/A	N/A
	Right Cheek	0.741	0.133	0.874	N/A	N/A
	Right Tilt 15 Degree	0.368	0.070	0.438	N/A	N/A
Body-Worn	Front Side	0.798	0.093	0.891	N/A	N/A
	Back Side	1.308	0.142	1.450	N/A	N/A
Hotspot	Front Side	0.798	0.093	0.891	N/A	N/A
	Back Side	1.308	0.142	1.450	N/A	N/A

	Left Side	0.431	0.050	0.481	N/A	N/A
	Right Side	0.427	N/A	0.427	N/A	N/A
	Top Side	N/A	0.053	0.053	N/A	N/A
	Bottom Side	0.730	N/A	0.730	N/A	N/A

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	NII			
Head	Left Cheek	0.792	0.502	1.294	N/A	N/A
	Left Tilt 15 Degree	0.446	0.264	0.710	N/A	N/A
	Right Cheek	0.741	0.458	1.199	N/A	N/A
	Right Tilt 15 Degree	0.368	0.214	0.582	N/A	N/A
Body-Worn	Front Side	0.798	0.133	0.931	N/A	N/A
	Back Side	1.308	0.211	1.519	N/A	N/A
Hotspot	Front Side	0.798	0.133	0.931	N/A	N/A
	Back Side	1.308	0.211	1.519	N/A	N/A
	Left Side	0.431	0.067	0.498	N/A	N/A
	Right Side	0.427	N/A	0.427	N/A	N/A
	Top Side	N/A	0.070	0.070	N/A	N/A
	Bottom Side	0.730	N/A	0.730	N/A	N/A

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	DSS			
Head	Left Cheek	0.792	0.188	0.980	N/A	N/A
	Left Tilt 15 Degree	0.446	0.188	0.634	N/A	N/A
	Right Cheek	0.741	0.188	0.929	N/A	N/A
	Right Tilt 15 Degree	0.368	0.188	0.556	N/A	N/A
Body-Worn	Front Side	0.798	0.094	0.892	N/A	N/A
	Back Side	1.308	0.094	1.402	N/A	N/A
Hotspot	Front Side	0.798	0.094	0.892	N/A	N/A
	Back Side	1.308	0.094	1.402	N/A	N/A
	Left Side	0.431	0.094	0.525	N/A	N/A

	Right Side	0.427	N/A	0.427	N/A	N/A
	Top Side	N/A	0.094	0.094	N/A	N/A
	Bottom Side	0.730	N/A	0.730	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 7 System Performance Check - 5200MHz
MEASUREMENT 8 System Performance Check - 5800MHz

MEASUREMENT 1

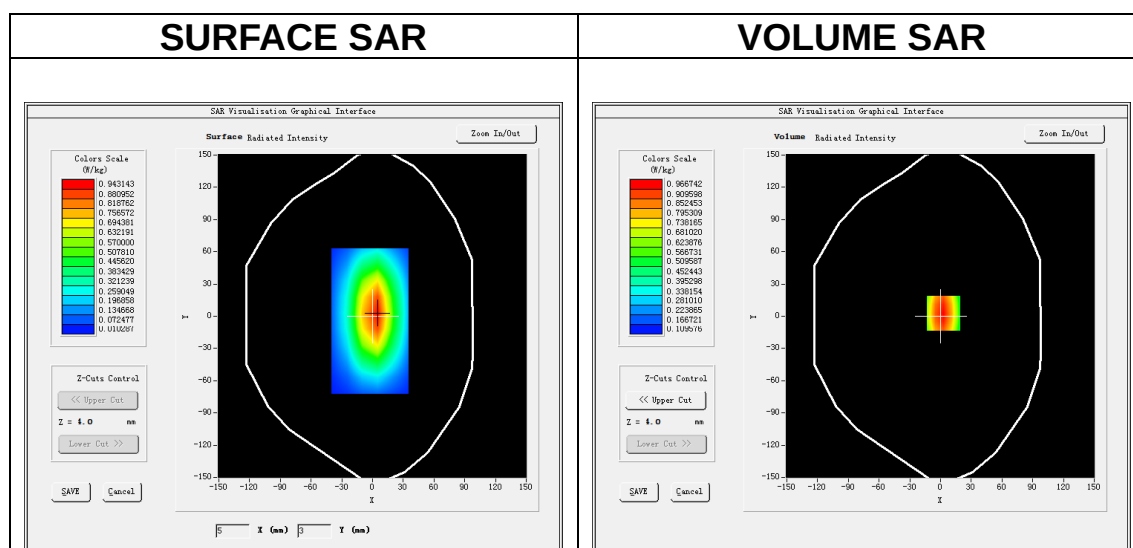
Date of measurement: 20/9/2022

A. Experimental conditions.

Area Scan	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Dipole</u>
Band	<u>CW750</u>
Channels	<u>Middle</u>
Signal	<u>CW (Crest factor: 1.0)</u>
ConvF	<u>1.49</u>

B. SAR Measurement Results

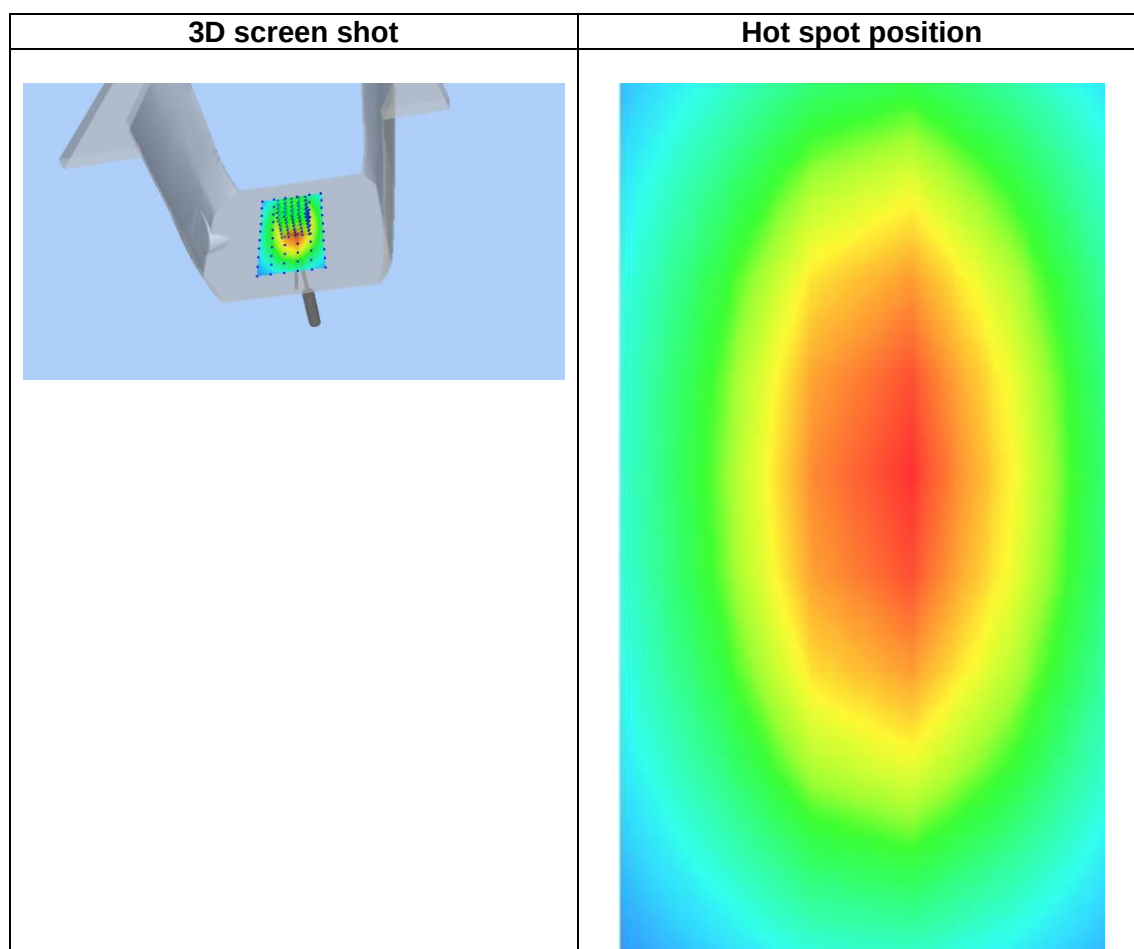
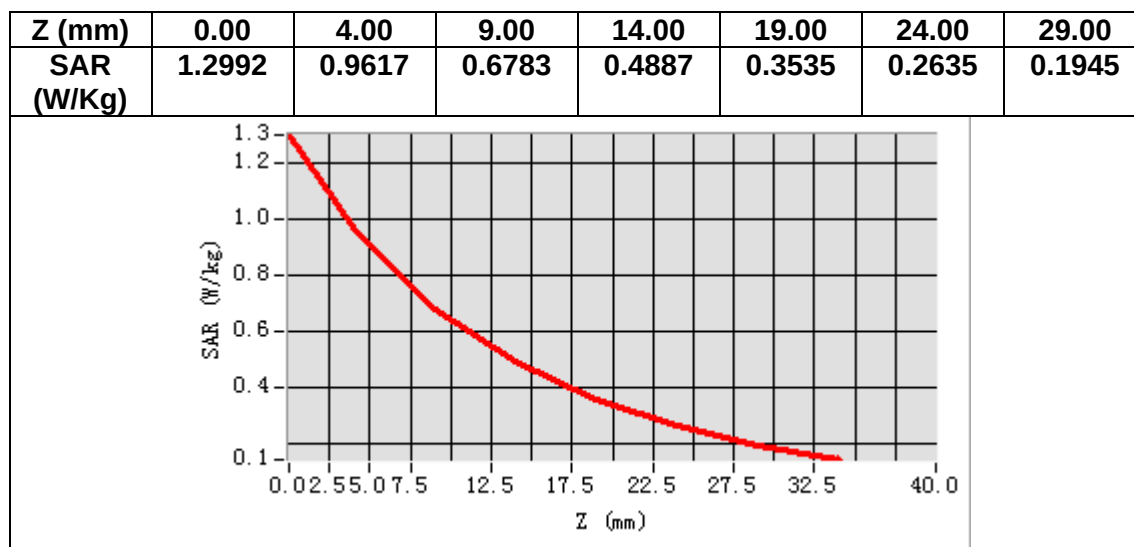
Frequency (MHz)	750.000000
Relative permittivity (real part)	40.129713
Relative permittivity (imaginary part)	21.396098
Conductivity (S/m)	0.891504
Variation (%)	2.730000



Maximum location: X=3.00, Y=3.00

SAR Peak: 1.30 W/kg

SAR 10g (W/Kg)	0.580332
SAR 1g (W/Kg)	0.813321



MEASUREMENT 2

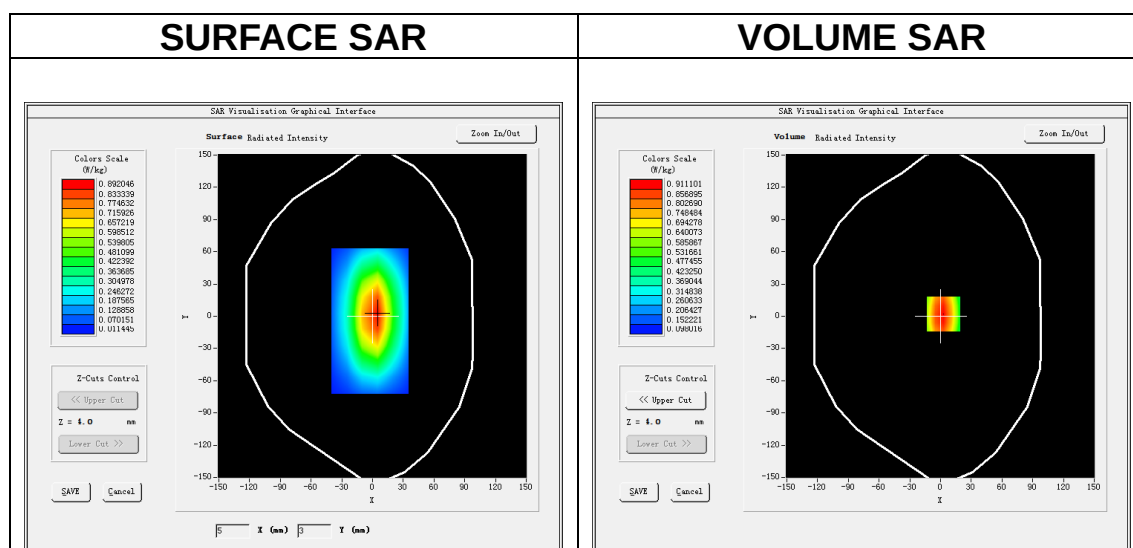
Date of measurement: 12/9/2022

A. Experimental conditions.

Area Scan	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Dipole</u>
Band	<u>CW835</u>
Channels	<u>Middle</u>
Signal	<u>CW (Crest factor: 1.0)</u>
ConvF	<u>1.5</u>

B. SAR Measurement Results

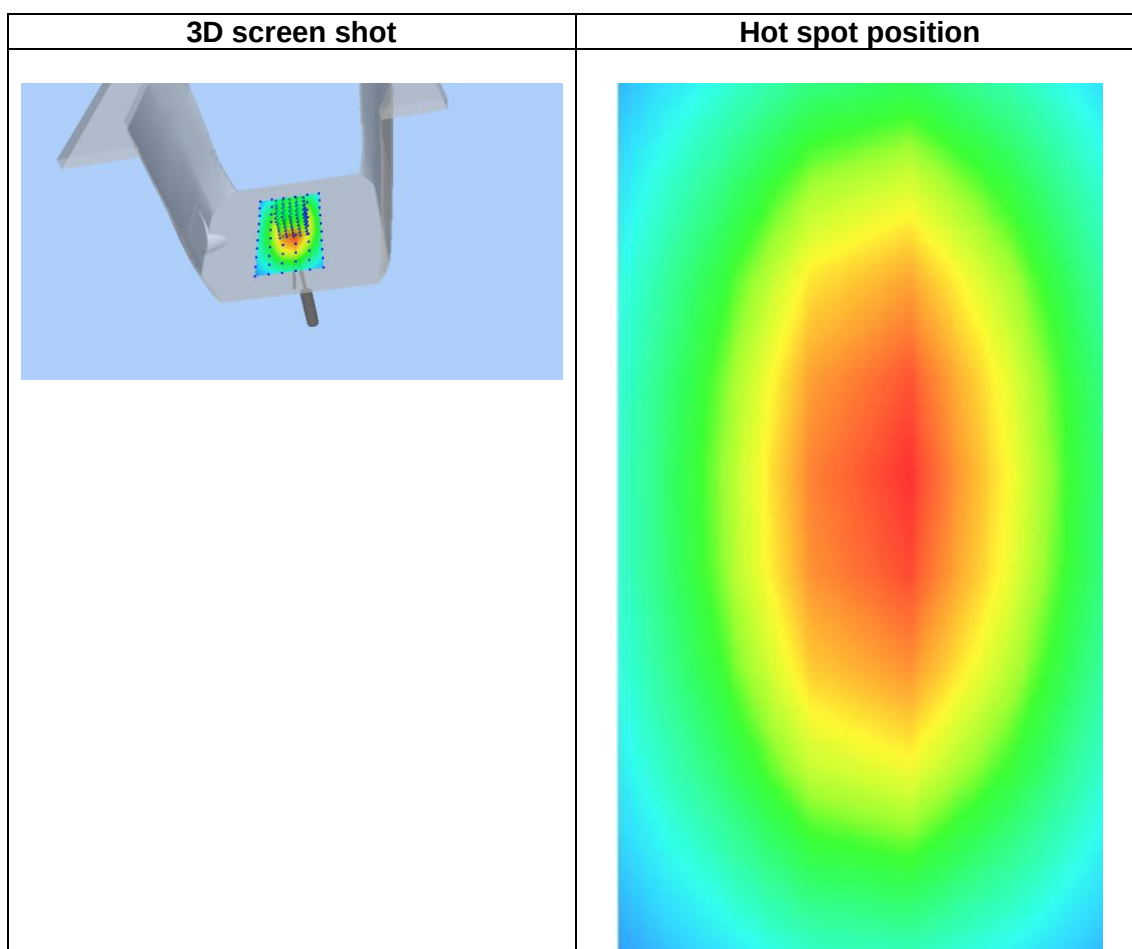
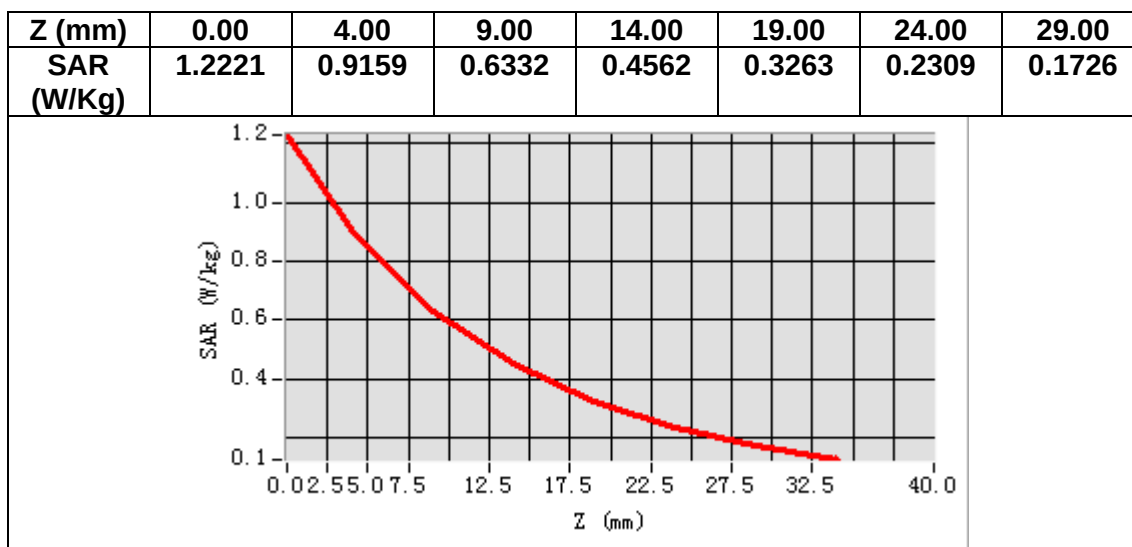
Frequency (MHz)	835.000000
Relative permittivity (real part)	41.503672
Relative permittivity (imaginary part)	20.044007
Conductivity (S/m)	0.929819
Variation (%)	-2.720000



Maximum location: X=3.00, Y=2.00

SAR Peak: 1.23 W/kg

SAR 10g (W/Kg)	0.607333
SAR 1g (W/Kg)	1.066172



MEASUREMENT 3

Date of measurement: 21/9/2022

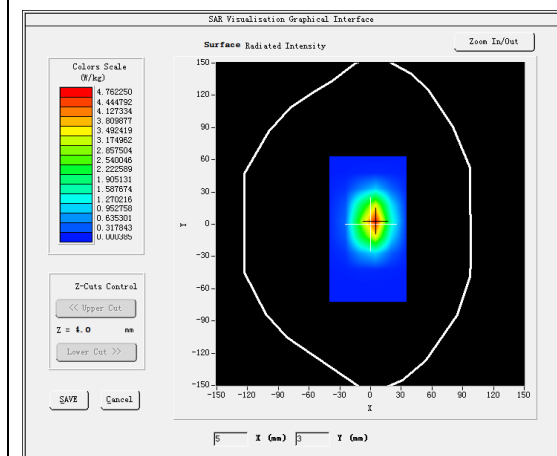
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW1800</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>1.73</u>

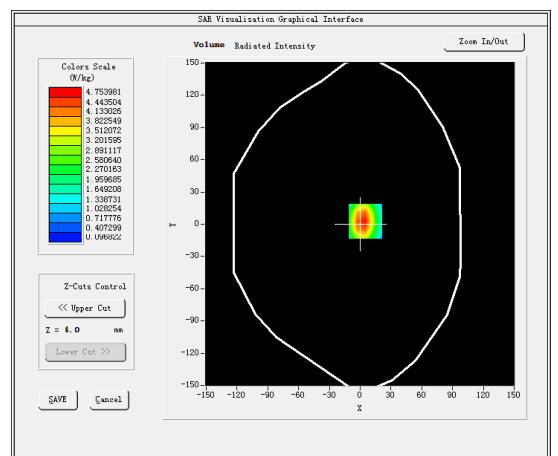
B. SAR Measurement Results

Frequency (MHz)	1800.000000
Relative permittivity (real part)	38.677062
Relative permittivity (imaginary part)	13.847581
Conductivity (S/m)	1.384758
Variation (%)	2.980000

SURFACE SAR



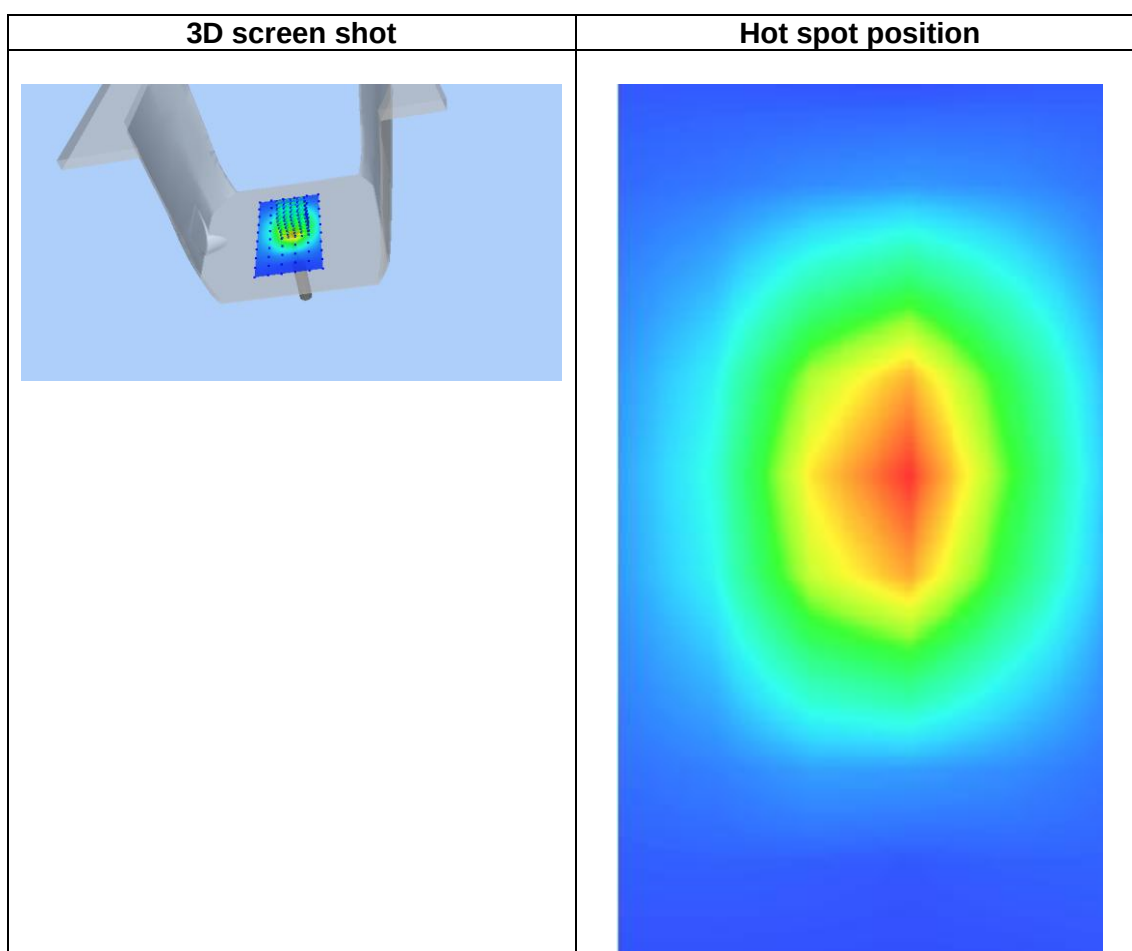
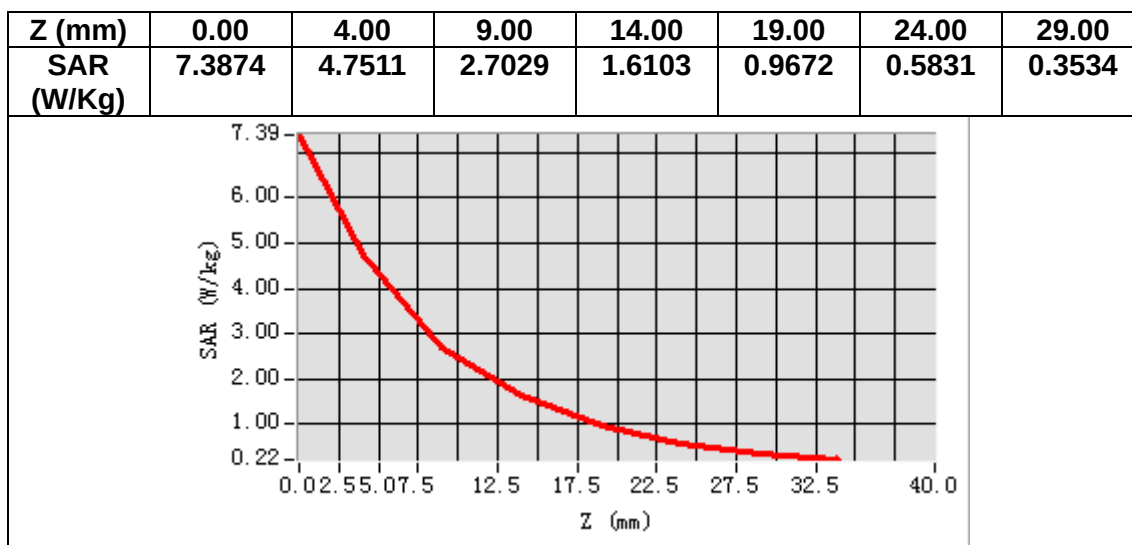
VOLUME SAR



Maximum location: X=5.00, Y=3.00

SAR Peak: 7.59 W/kg

SAR 10g (W/Kg)	2.045307
SAR 1g (W/Kg)	4.118066



MEASUREMENT 4

Date of measurement: 14/9/2022

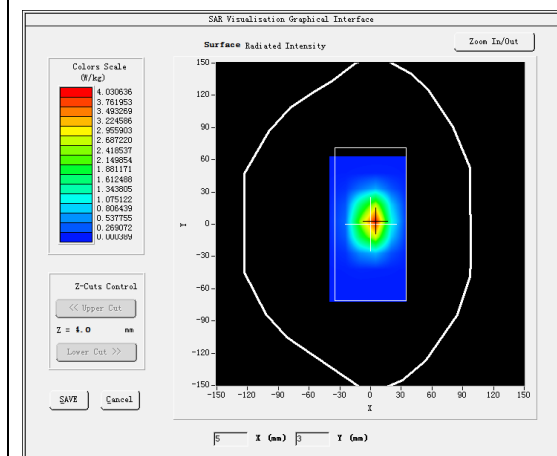
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>1.91</u>

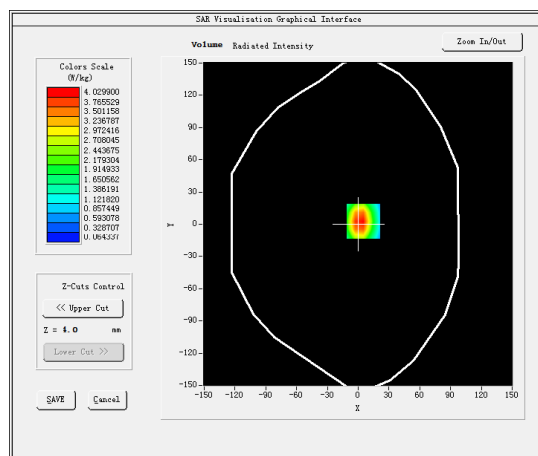
B. SAR Measurement Results

Frequency (MHz)	1900.000000
Relative permittivity (real part)	38.479130
Relative permittivity (imaginary part)	13.867253
Conductivity (S/m)	1.463766
Variation (%)	2.220000

SURFACE SAR



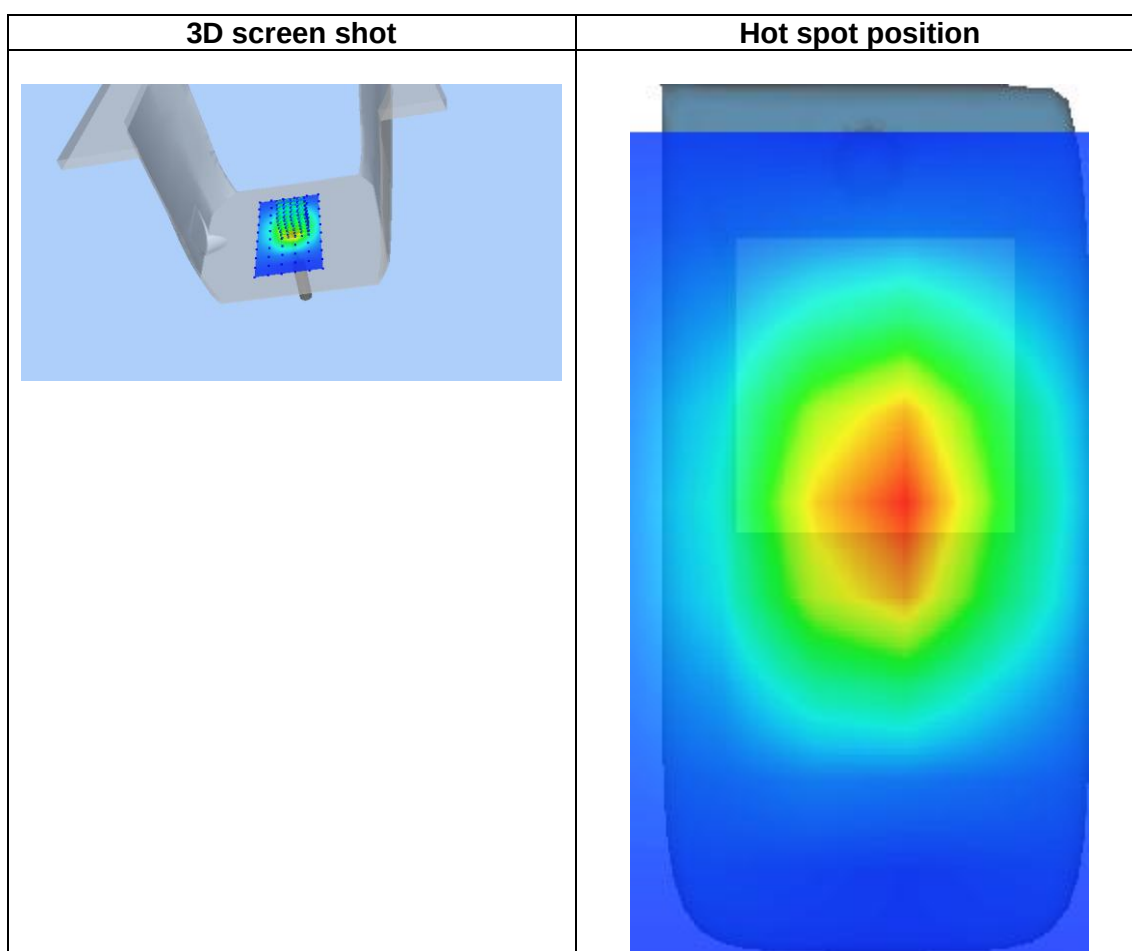
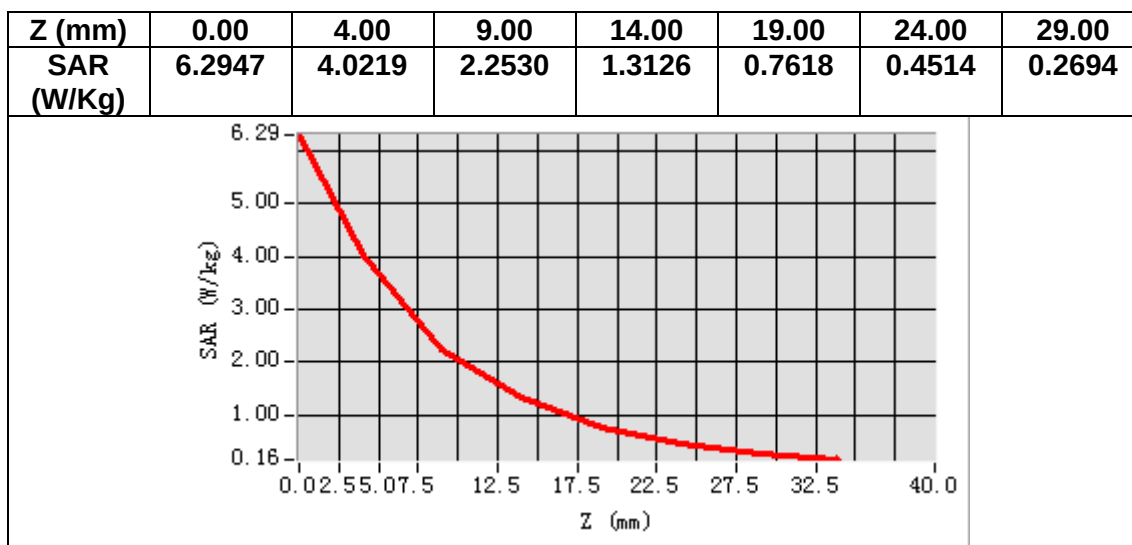
VOLUME SAR



Maximum location: X=5.00, Y=3.00

SAR Peak: 6.57 W/kg

SAR 10g (W/Kg)	1.887347
SAR 1g (W/Kg)	3.960221



MEASUREMENT 5

Date of measurement: 7/9/2022

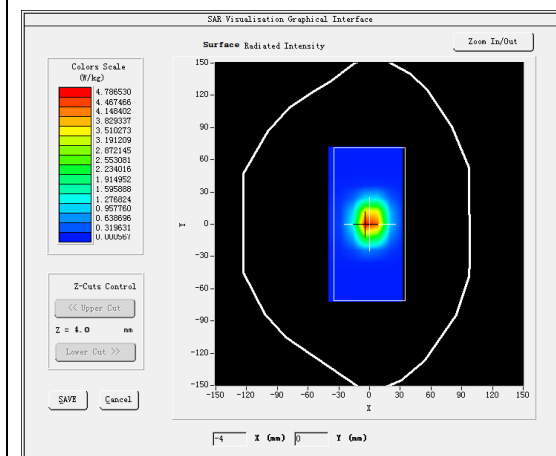
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW2450</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>1.98</u>

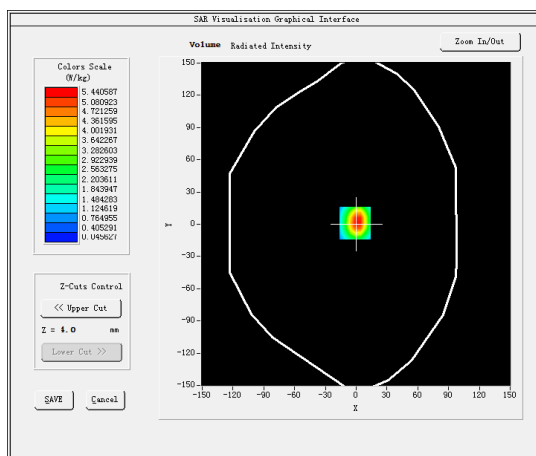
B. SAR Measurement Results

Frequency (MHz)	2450.000000
Relative permittivity (real part)	37.924835
Relative permittivity (imaginary part)	13.152103
Conductivity (S/m)	1.790147
Variation (%)	1.290000

SURFACE SAR



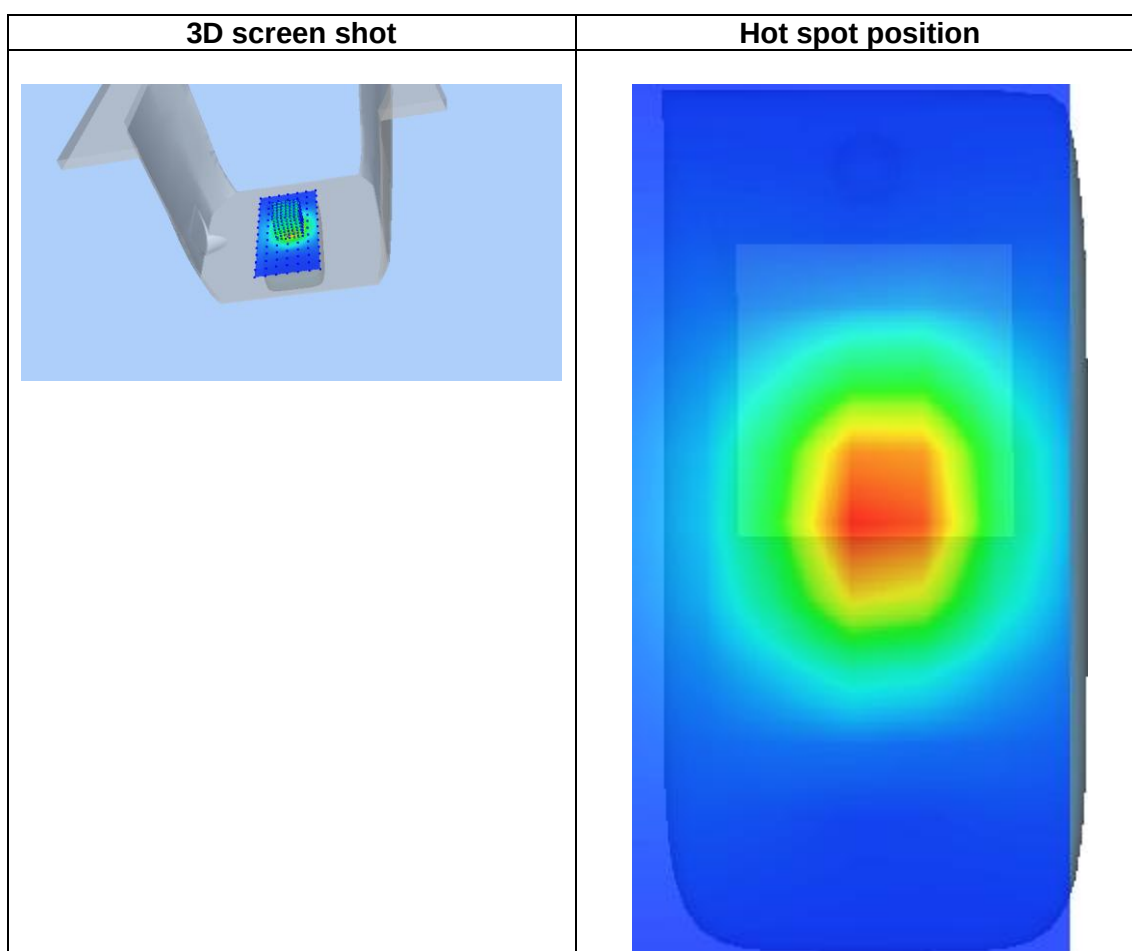
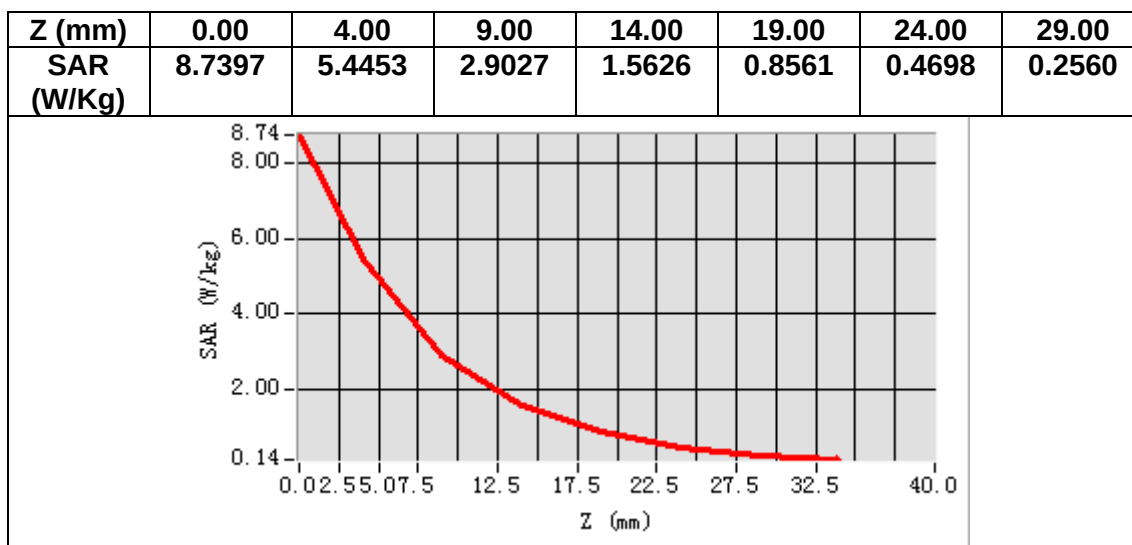
VOLUME SAR



Maximum location: X=-1.00, Y=1.00

SAR Peak: 8.94 W/kg

SAR 10g (W/Kg)	2.600106
SAR 1g (W/Kg)	5.250340



MEASUREMENT 6

Date of measurement: 22/9/2022

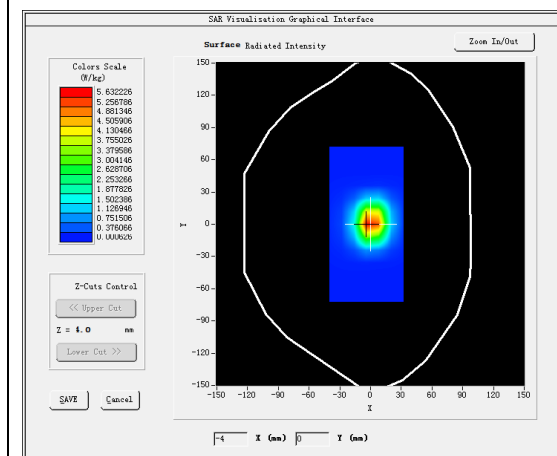
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW2600</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>1.87</u>

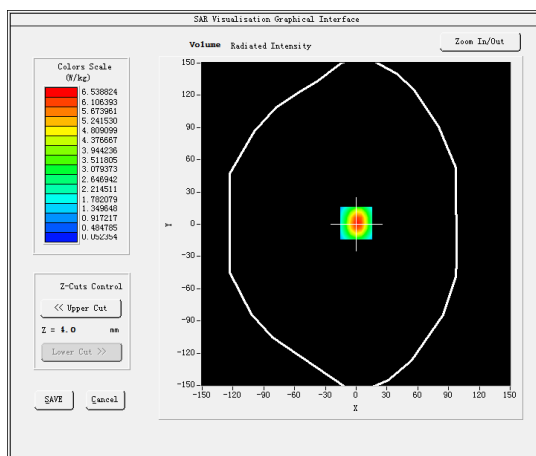
B. SAR Measurement Results

Frequency (MHz)	2600.000000
Relative permittivity (real part)	37.685852
Relative permittivity (imaginary part)	13.243335
Conductivity (S/m)	1.912926
Variation (%)	0.250000

SURFACE SAR



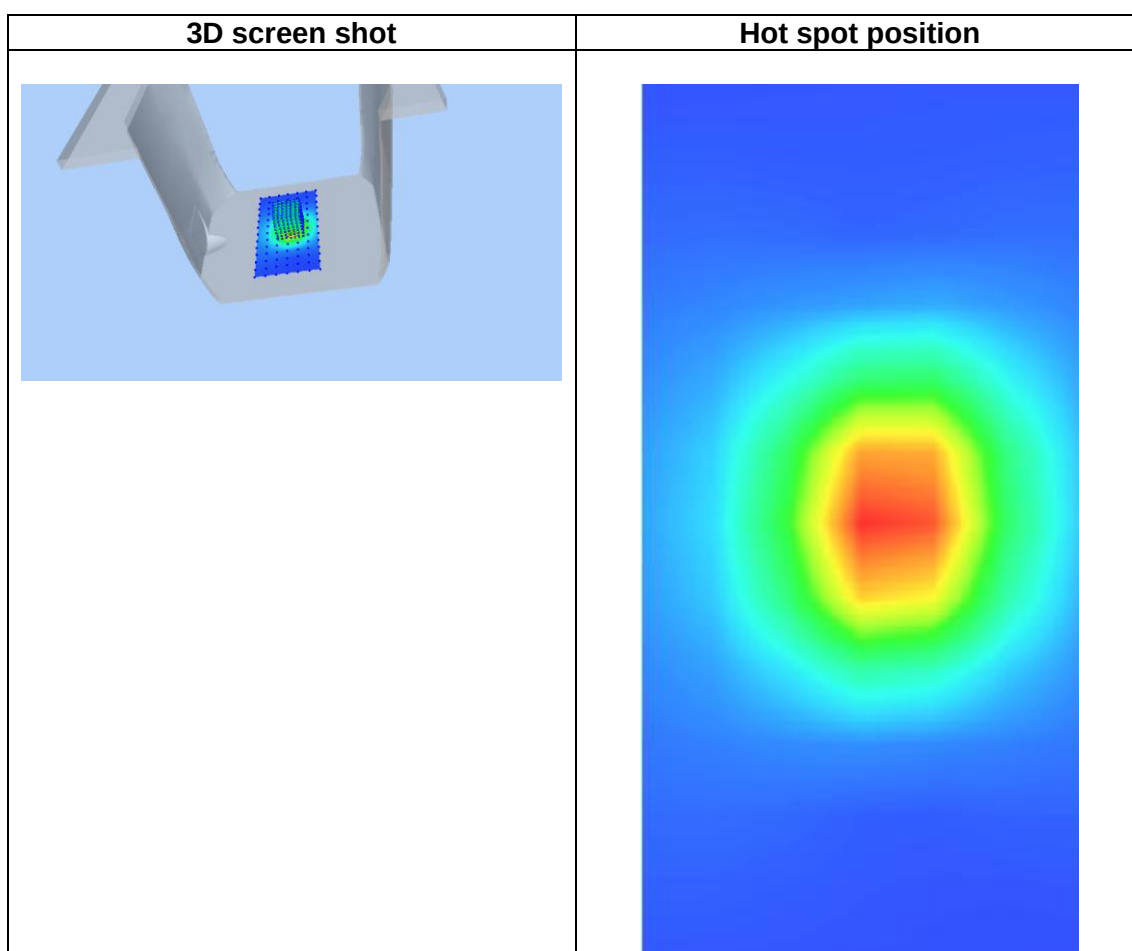
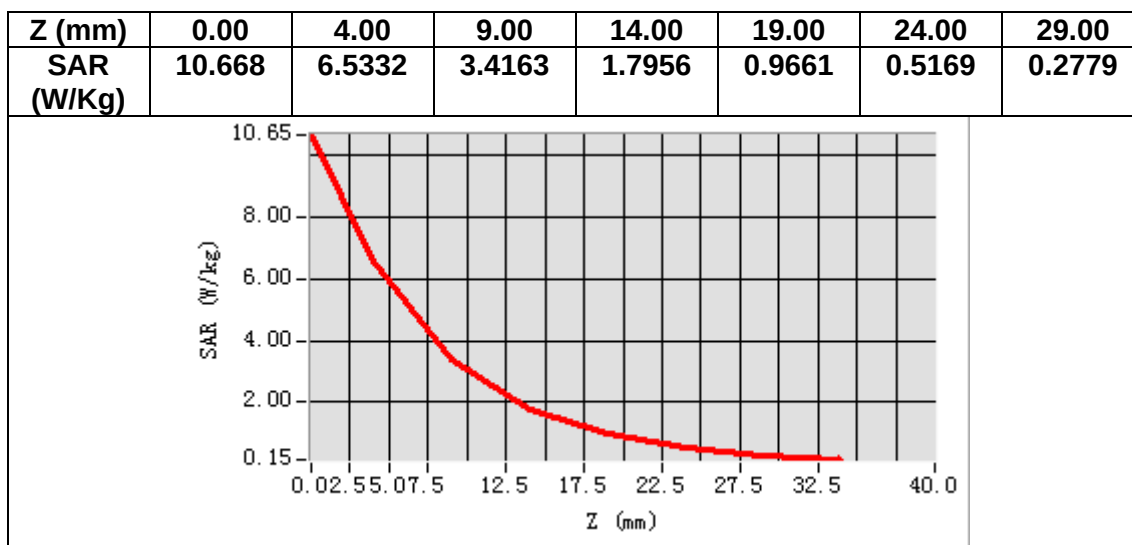
VOLUME SAR



Maximum location: X=0.00, Y=1.00

SAR Peak: 10.67 W/kg

SAR 10g (W/Kg)	2.203037
SAR 1g (W/Kg)	5.963199



MEASUREMENT 7

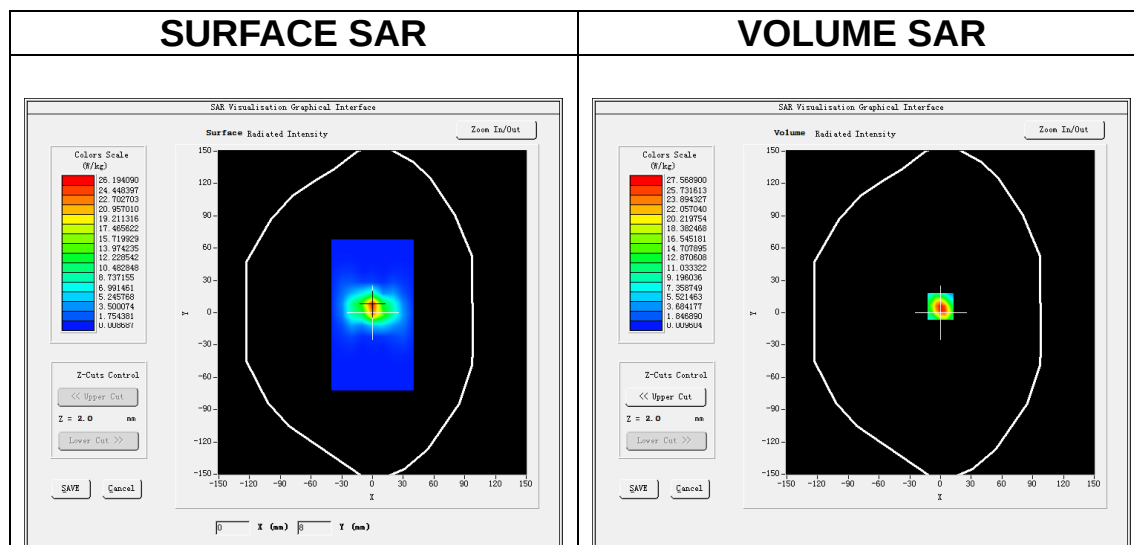
Date of measurement: 16/9/2022

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=10mm dy=10mm, h= 2.00 mm</u>
<u>ZoomScan</u>	<u>7x7x12,dx=4mm dy=4mm dz=2mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW5200</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>1.8</u>

B. SAR Measurement Results

Frequency (MHz)	5200.000000
Relative permittivity (real part)	35.238635
Relative permittivity (imaginary part)	15.554736
Conductivity (S/m)	4.493590
Variation (%)	2.800000

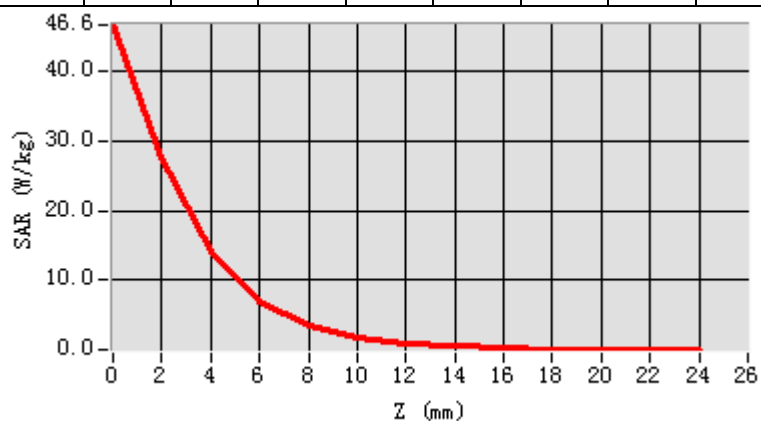


Maximum location: X=0.00, Y=6.00

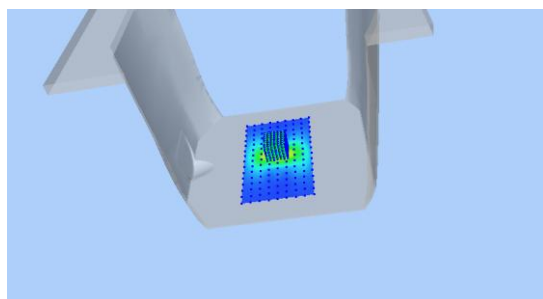
SAR Peak: 49.61 W/kg

SAR 10g (W/Kg)	5.448162
SAR 1g (W/Kg)	17.000032

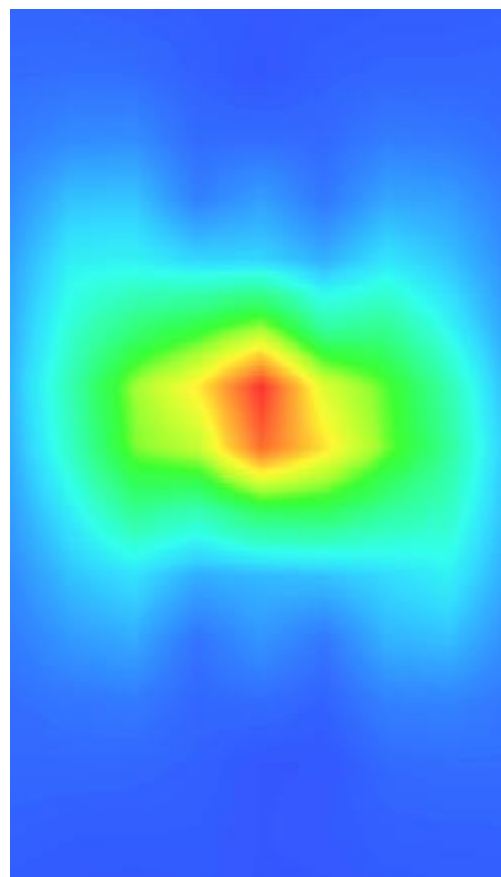
Z (m m)	0.00	2.00	4.00	6.00	8.00	10.0 0	12.0 0	14.0 0	16.0 0	18.0 0	20.0 0	22.0 0
SAR (W/ Kg)	46.6 91	27.5 91	14.0 77	7.05 94	3.59 91	1.78 43	0.89 50	0.46 37	0.24 02	0.13 08	0.06 27	0.04 97



3D screen shot



Hot spot position



MEASUREMENT 8

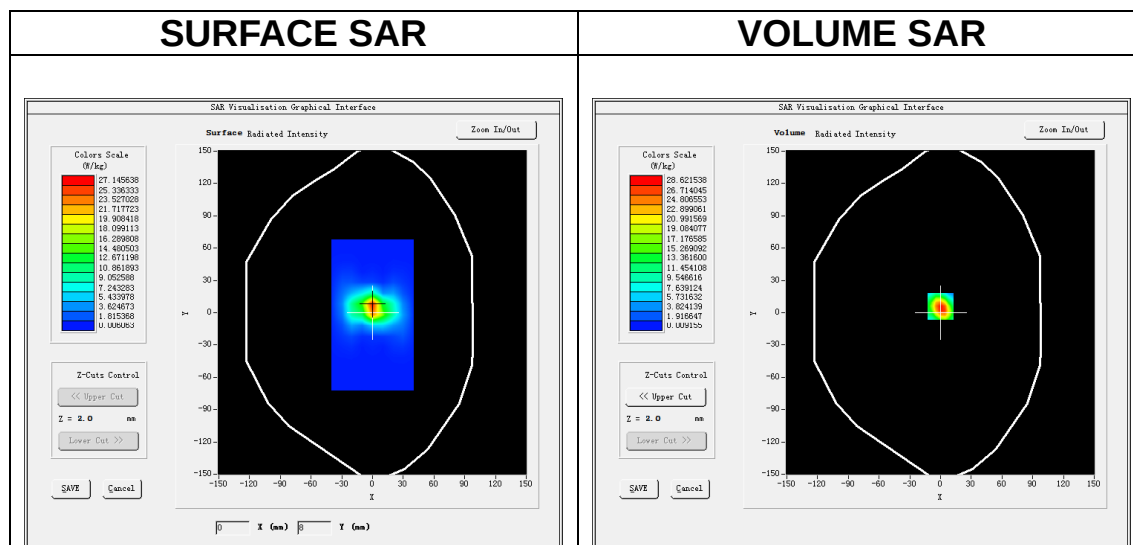
Date of measurement: 15/9/2022

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=10mm dy=10mm, h= 2.00 mm</u>
<u>ZoomScan</u>	<u>7x7x12,dx=4mm dy=4mm dz=2mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW5800</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.07</u>

B. SAR Measurement Results

Frequency (MHz)	5800.000000
Relative permittivity (real part)	34.137883
Relative permittivity (imaginary part)	15.814368
Conductivity (S/m)	5.095741
Variation (%)	-0.500000

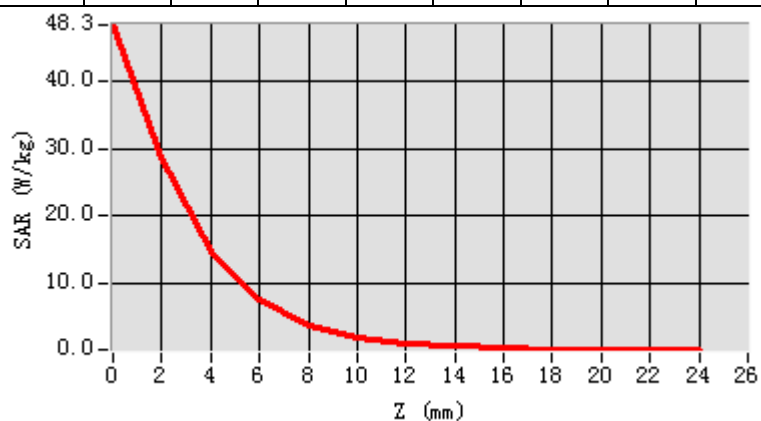


Maximum location: X=0.00, Y=6.00

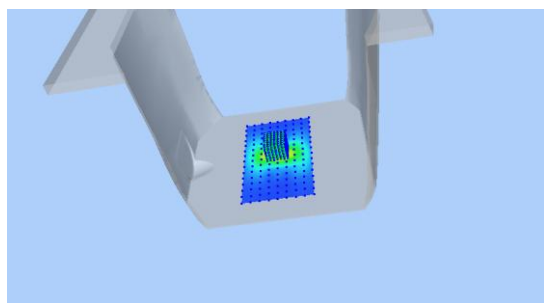
SAR Peak: 51.30 W/kg

SAR 10g (W/Kg)	5.423228
SAR 1g (W/Kg)	18.474190

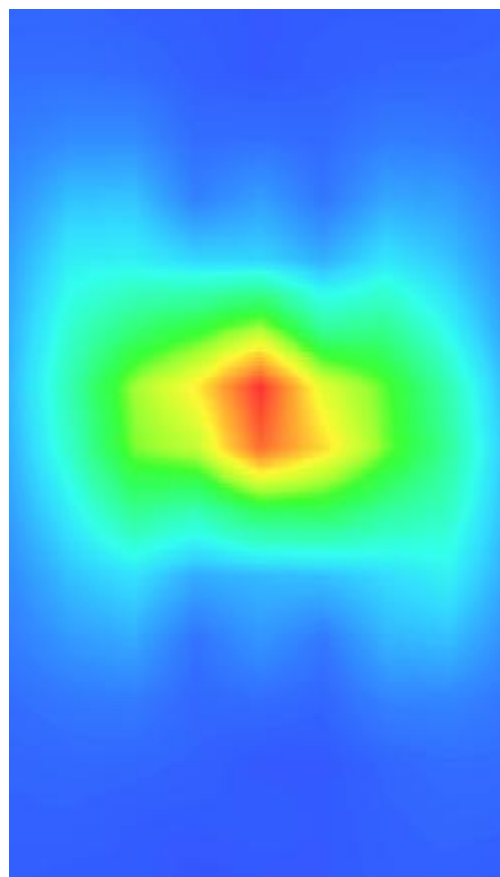
Z (m m)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
SAR (W/ Kg)	48.3 36	28.6 48	14.6 44	7.40 66	3.68 90	1.83 50	0.93 61	0.47 44	0.25 95	0.13 72	0.07 88	0.05 38



3D screen shot



Hot spot position



13. Appendix C. Plots of High SAR Measurement

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MEASUREMENT 33 LTE Band 66 Head
MEASUREMENT 34 LTE Band 66 Body
MEASUREMENT 35 LTE Band 71 Head
MEASUREMENT 36 LTE Band 71 Body

MEASUREMENT 1

Date of measurement: 12/9/2022

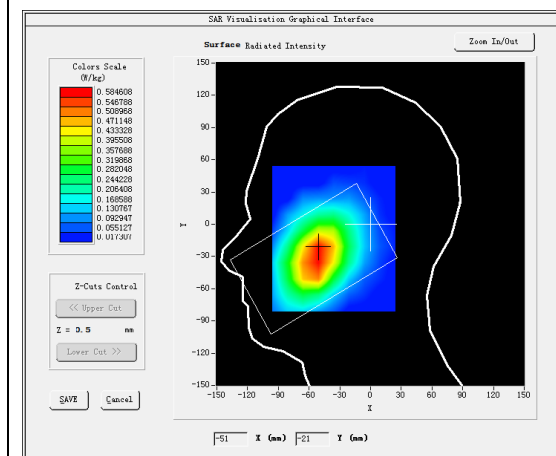
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>GSM850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>TDMA (Crest factor: 2.0)</u>
<u>ConvF</u>	<u>1.50</u>

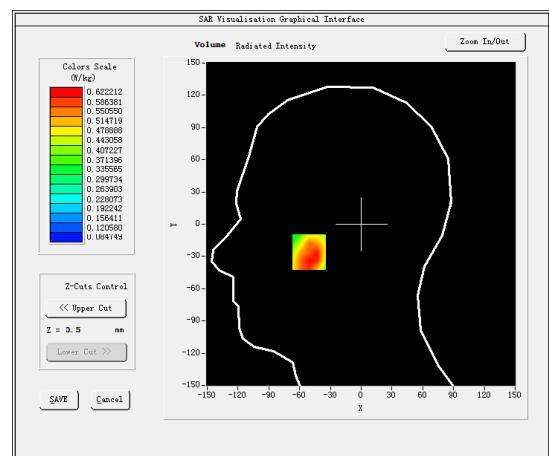
B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative permittivity (real part)	41.419331
Relative permittivity (imaginary part)	20.069847
Conductivity (S/m)	0.932579
Variation (%)	-4.140000

SURFACE SAR



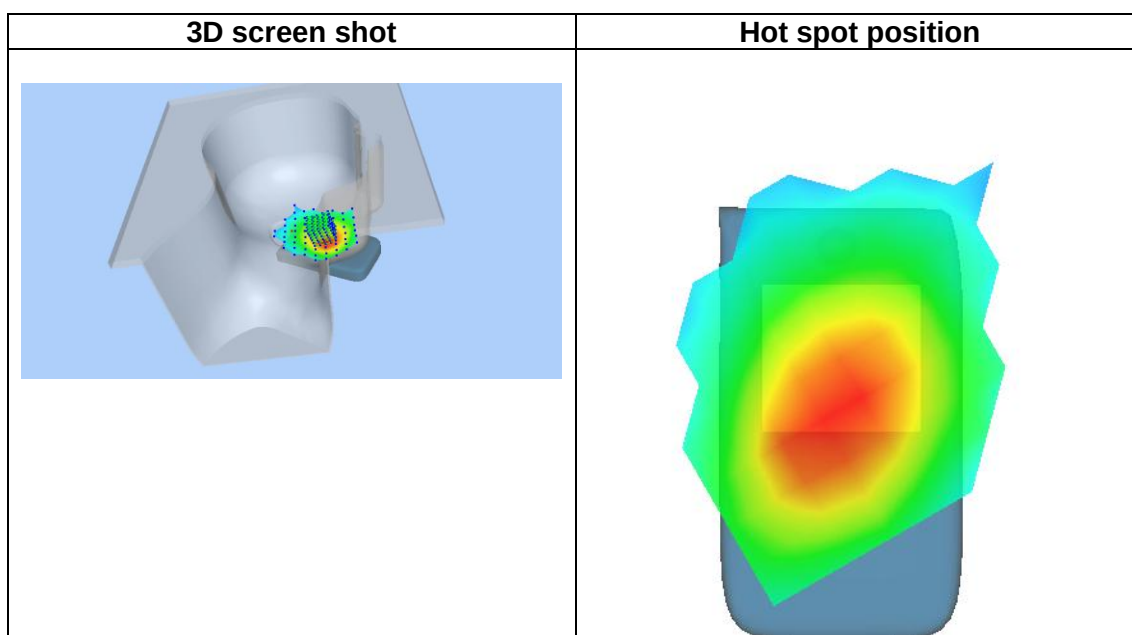
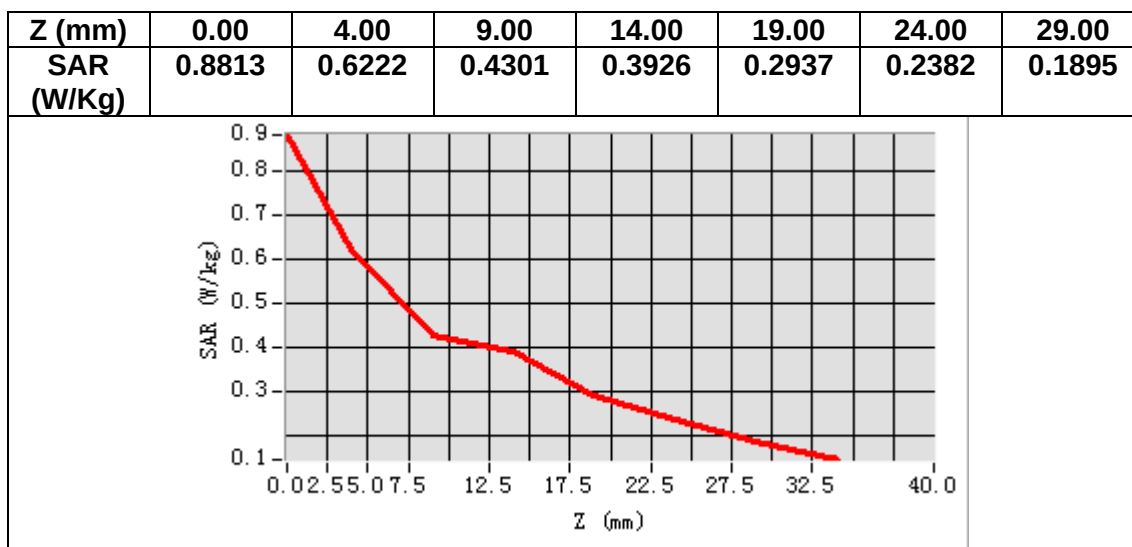
VOLUME SAR



Maximum location: X=-51.00, Y=-26.00

SAR Peak: 0.84 W/kg

SAR 10g (W/Kg)	0.447851
SAR 1g (W/Kg)	0.622170



MEASUREMENT 2

Date of measurement: 12/9/2022

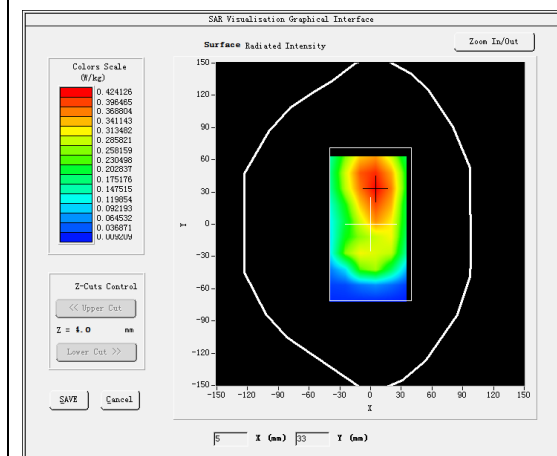
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>GSM850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>TDMA (Crest factor: 2.0)</u>
<u>ConvF</u>	<u>1.50</u>

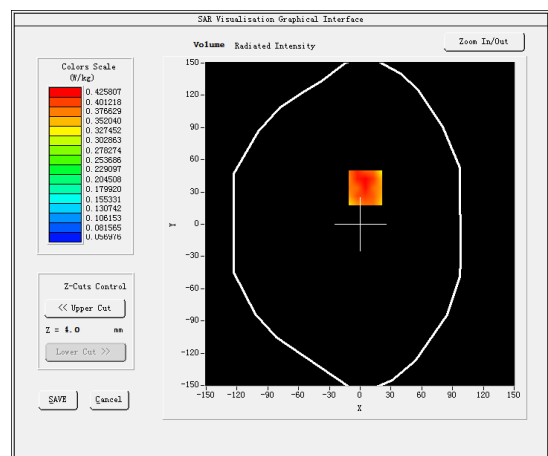
B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative permittivity (real part)	41.419331
Relative permittivity (imaginary part)	20.069847
Conductivity (S/m)	0.932579
Variation (%)	-1.050000

SURFACE SAR



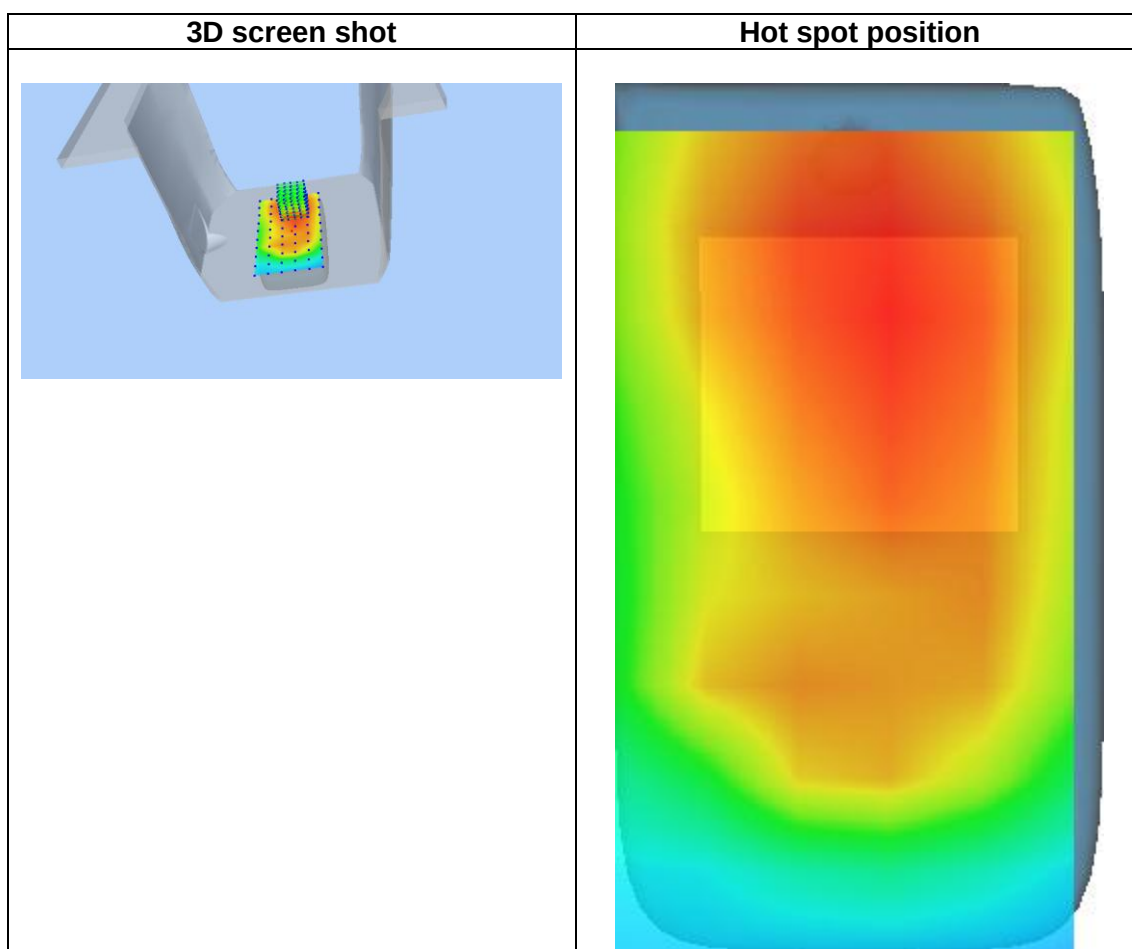
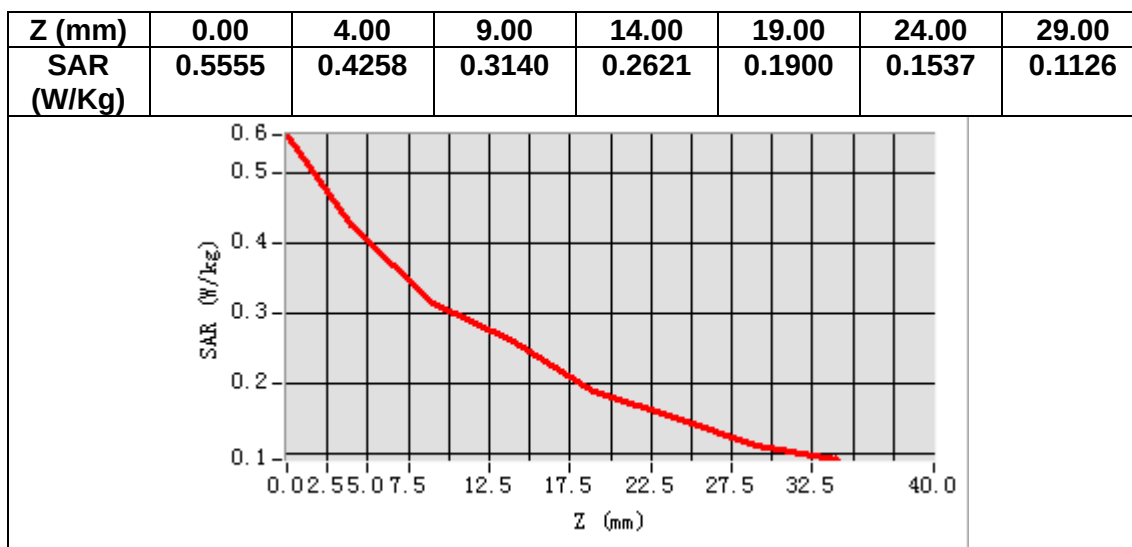
VOLUME SAR



Maximum location: X=5.00, Y=34.00

SAR Peak: 0.55 W/kg

SAR 10g (W/Kg)	0.307263
SAR 1g (W/Kg)	0.420481



MEASUREMENT 3

Date of measurement: 14/9/2022

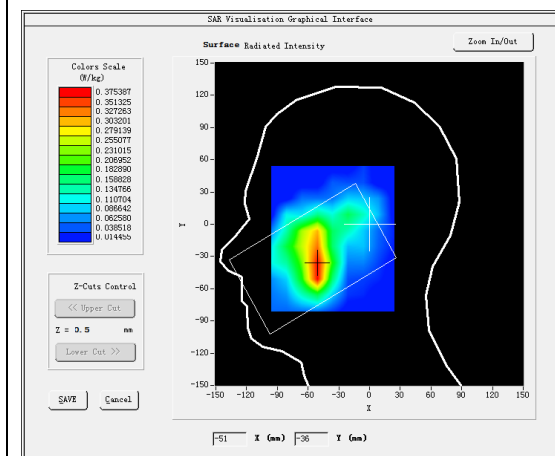
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>GSM1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>TDMA (Crest factor: 2.7)</u>
<u>ConvF</u>	<u>1.91</u>

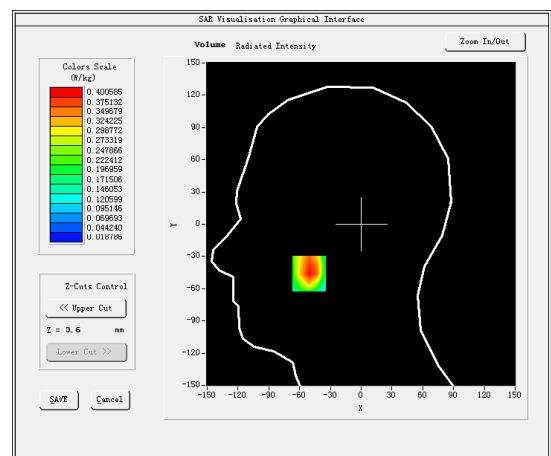
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.565529
Relative permittivity (imaginary part)	13.885053
Conductivity (S/m)	1.450217
Variation (%)	2.290000

SURFACE SAR



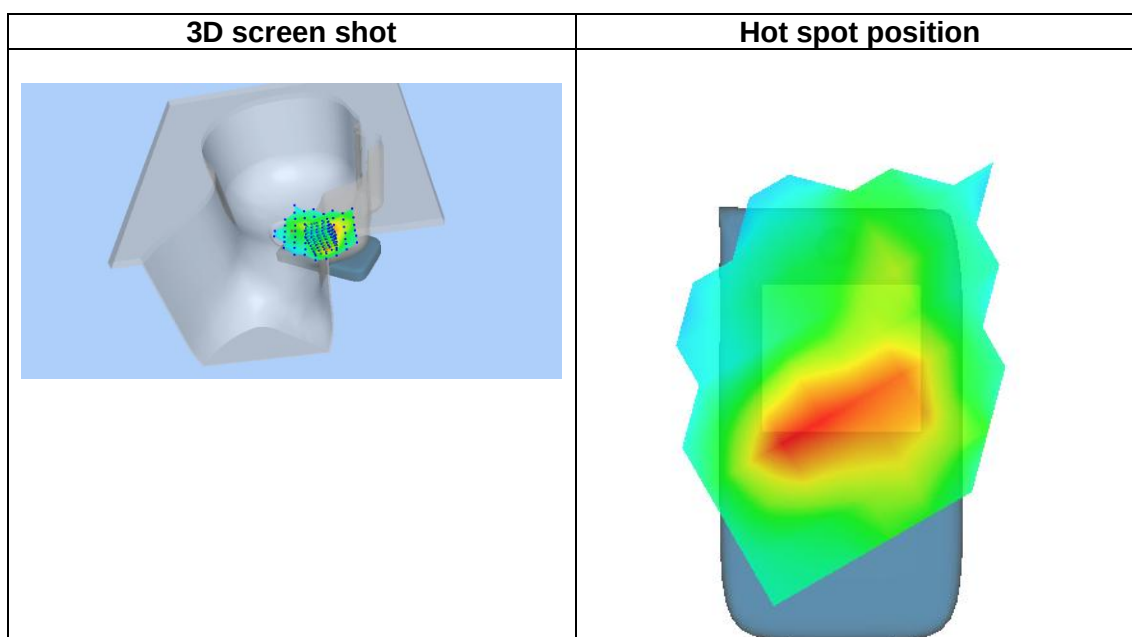
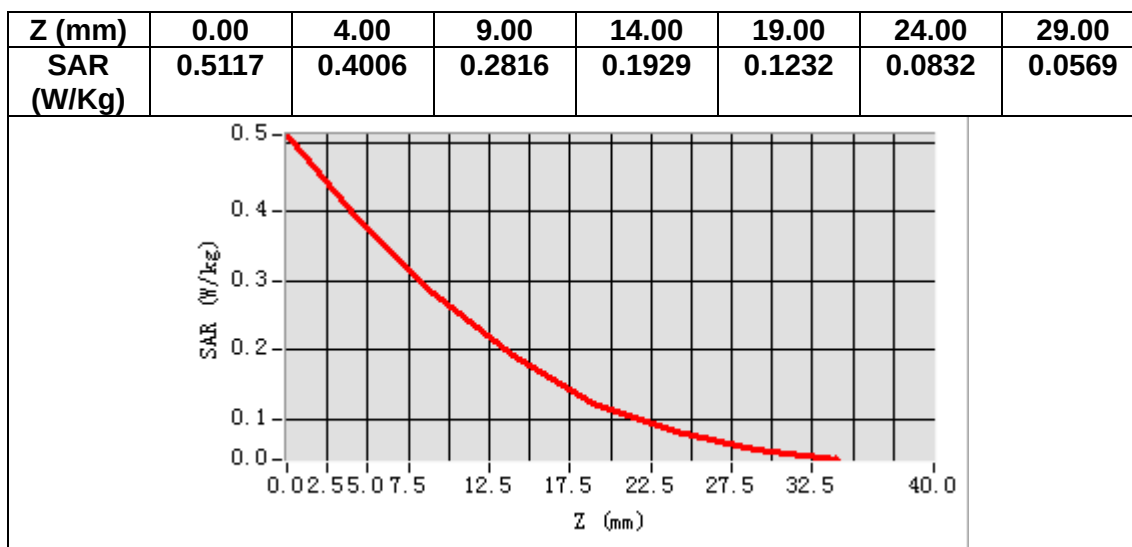
VOLUME SAR



Maximum location: X=-51.00, Y=-46.00

SAR Peak: 0.56 W/kg

SAR 10g (W/Kg)	0.233485
SAR 1g (W/Kg)	0.388959



MEASUREMENT 4

Date of measurement: 14/9/2022

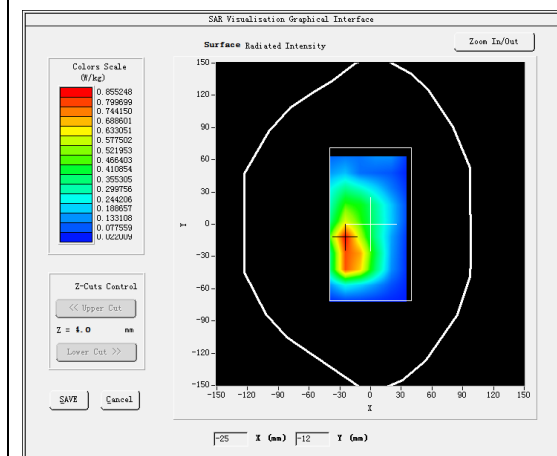
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>GSM1900</u>
<u>Channels</u>	<u>High</u>
<u>Signal</u>	<u>TDMA (Crest factor: 2.7)</u>
<u>ConvF</u>	<u>1.91</u>

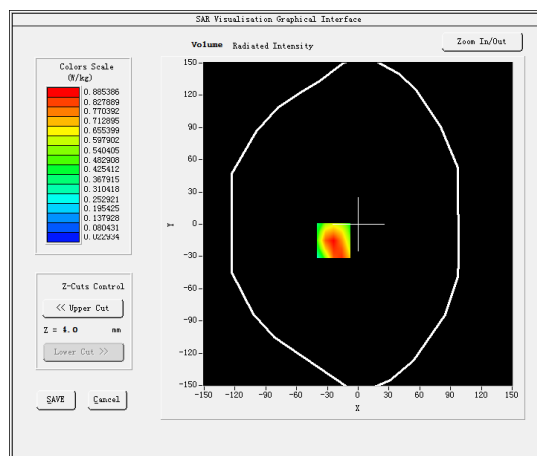
B. SAR Measurement Results

Frequency (MHz)	1909.800000
Relative permittivity (real part)	38.442810
Relative permittivity (imaginary part)	13.812053
Conductivity (S/m)	1.465459
Variation (%)	0.660000

SURFACE SAR



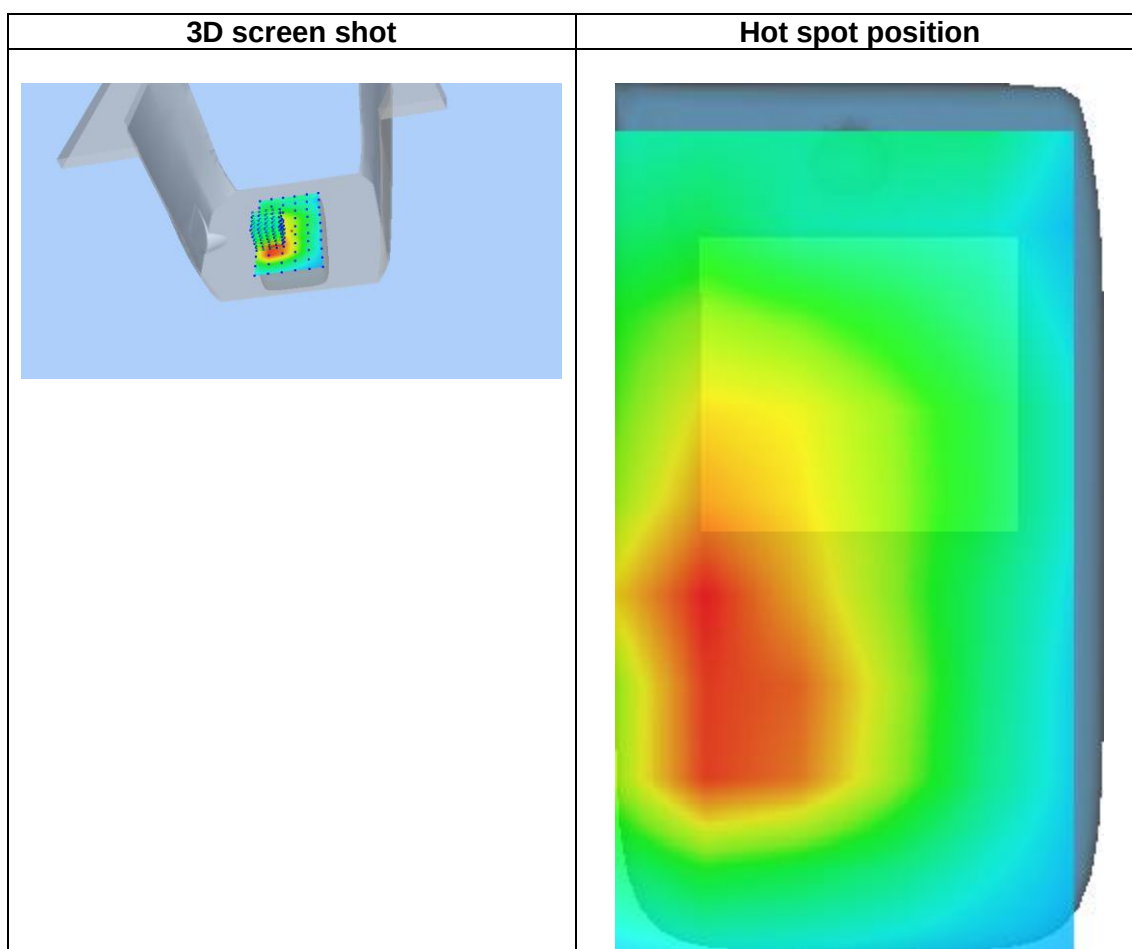
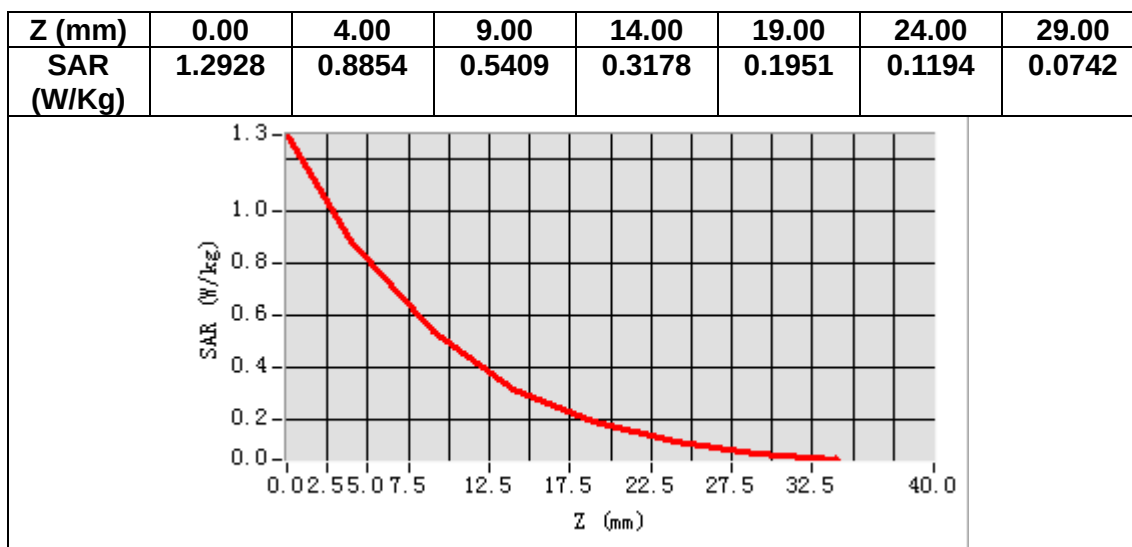
VOLUME SAR



Maximum location: X=-24.00, Y=-15.00

SAR Peak: 1.34 W/kg

SAR 10g (W/Kg)	0.490850
SAR 1g (W/Kg)	0.867269



MEASUREMENT 5

Date of measurement: 14/9/2022

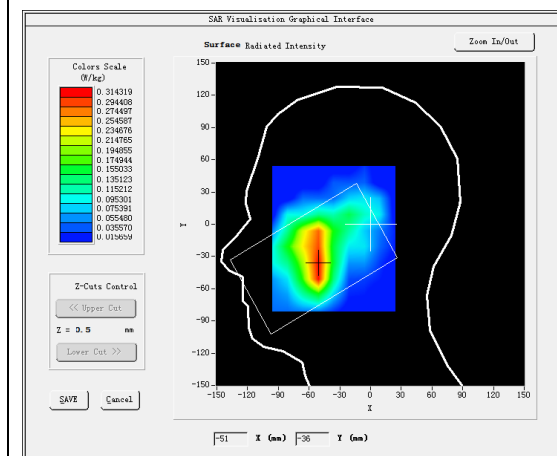
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>Band2 WCDMA1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>1.91</u>

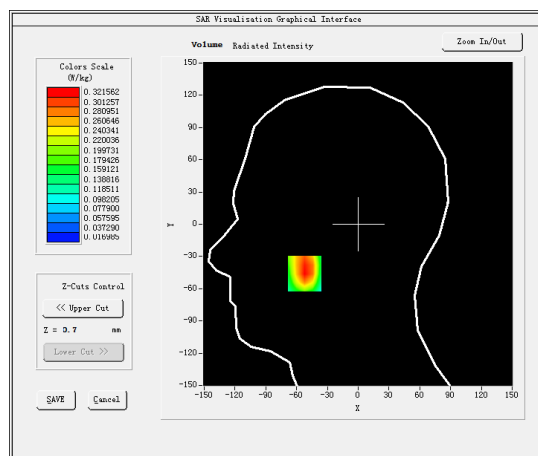
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.565529
Relative permittivity (imaginary part)	13.885053
Conductivity (S/m)	1.450217
Variation (%)	-1.740000

SURFACE SAR



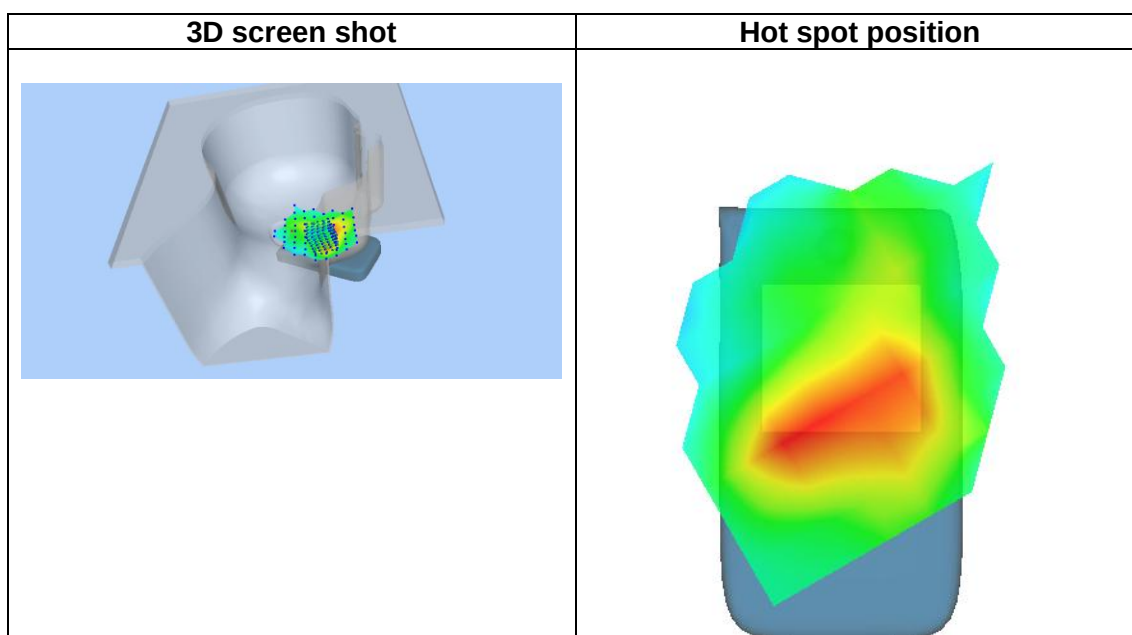
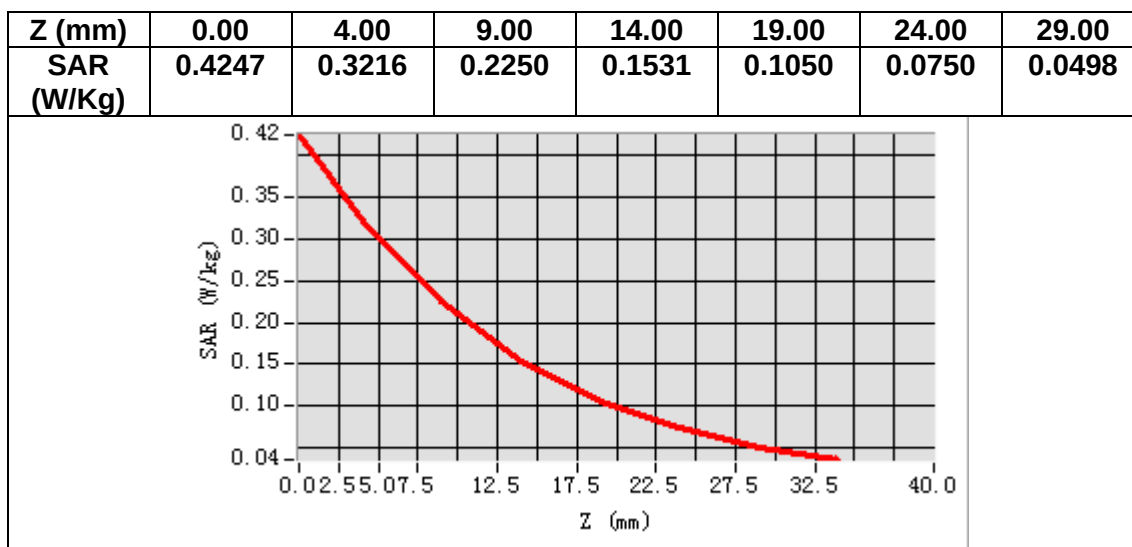
VOLUME SAR



Maximum location: X=-52.00, Y=-46.00

SAR Peak: 0.45 W/kg

SAR 10g (W/Kg)	0.195117
SAR 1g (W/Kg)	0.316095



MEASUREMENT 6

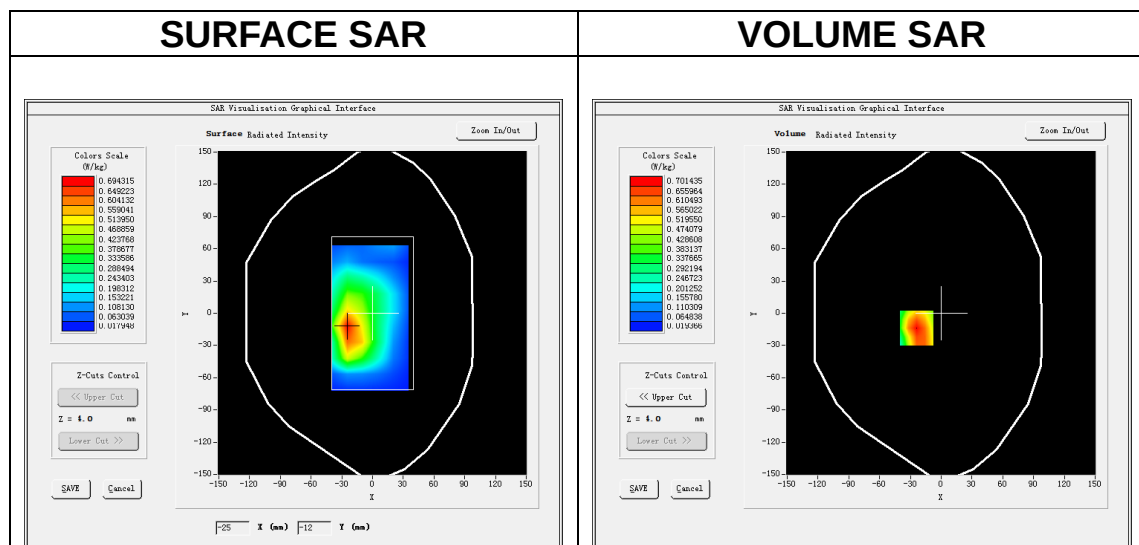
Date of measurement: 14/9/2022

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>Band2 WCDMA1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>1.91</u>

B. SAR Measurement Results

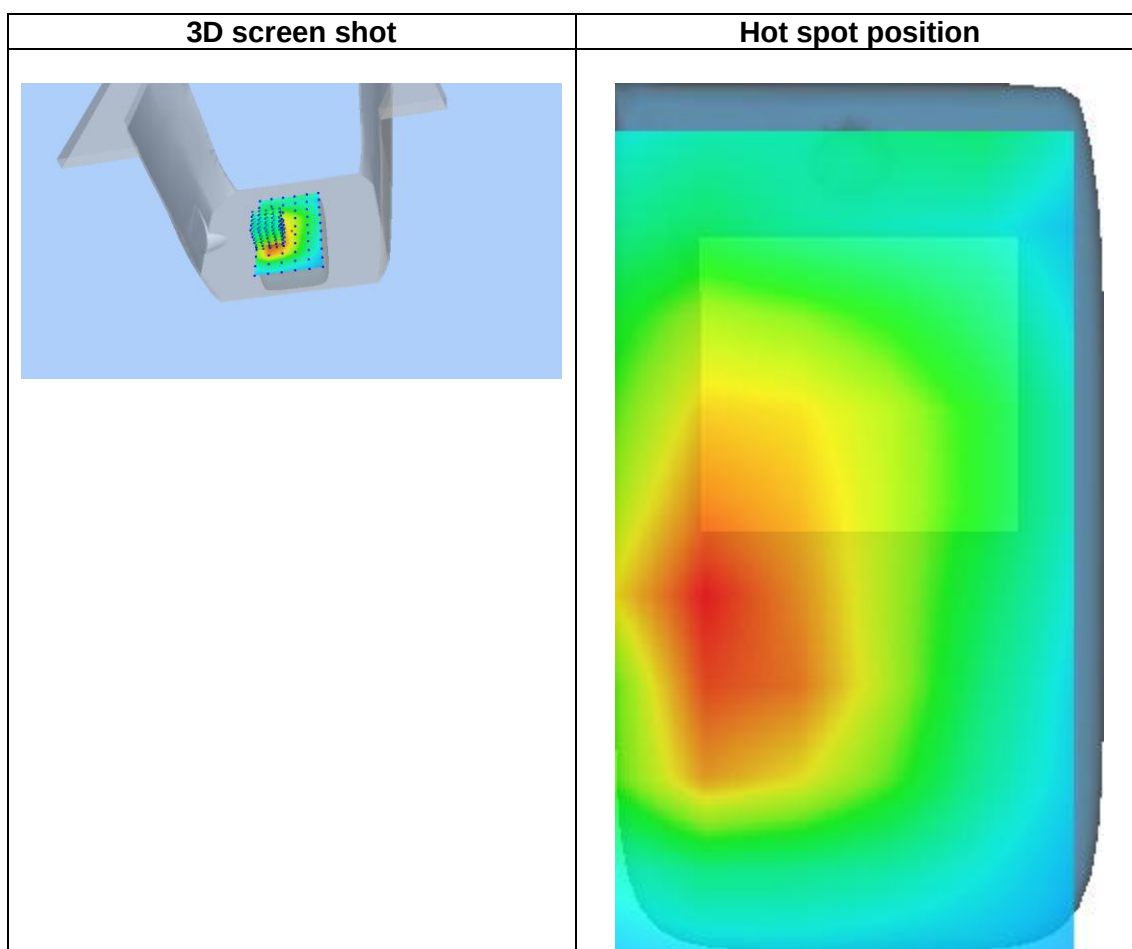
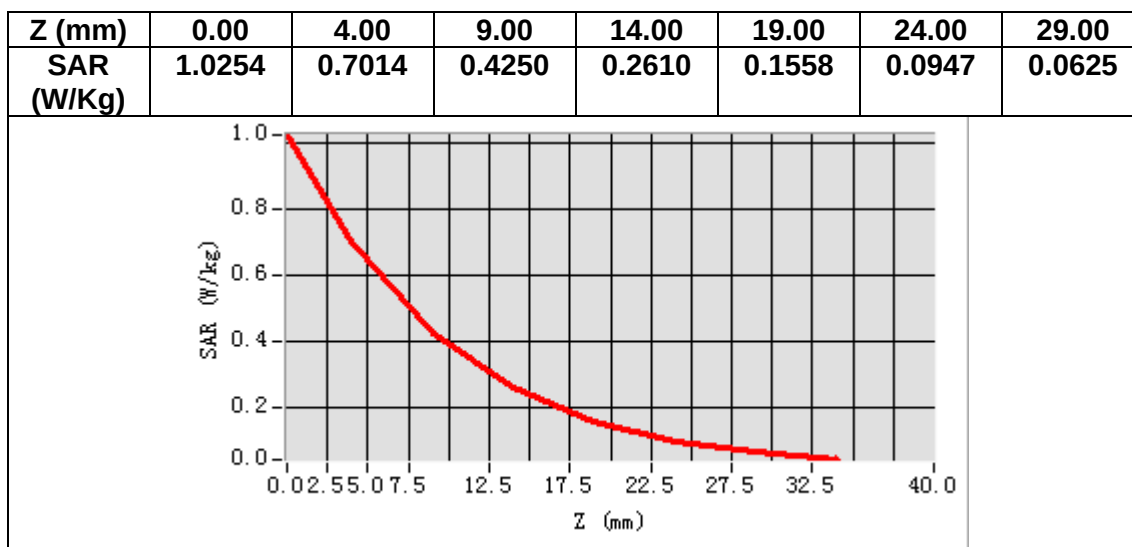
Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.565529
Relative permittivity (imaginary part)	13.885053
Conductivity (S/m)	1.450217
Variation (%)	-1.240000



Maximum location: X=-24.00, Y=-14.00

SAR Peak: 1.02 W/kg

SAR 10g (W/Kg)	0.394215
SAR 1g (W/Kg)	0.681593



MEASUREMENT 7

Date of measurement: 21/9/2022

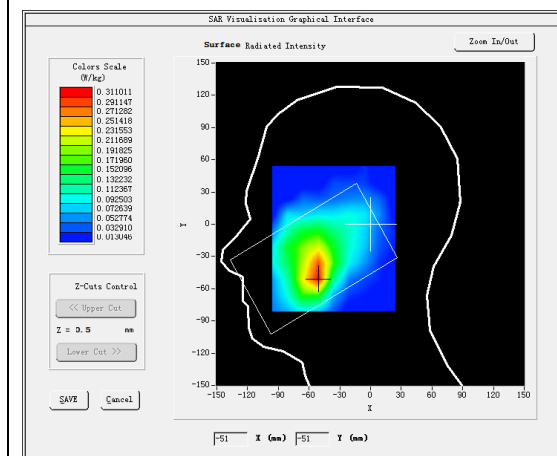
A. Experimental conditions.

Area Scan	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
Phantom	<u>Left head</u>
Device Position	<u>Cheek</u>
Band	<u>Band4 WCDMA1700</u>
Channels	<u>Middle</u>
Signal	<u>WCDMA (Crest factor: 1.0)</u>
ConvF	<u>1.73</u>

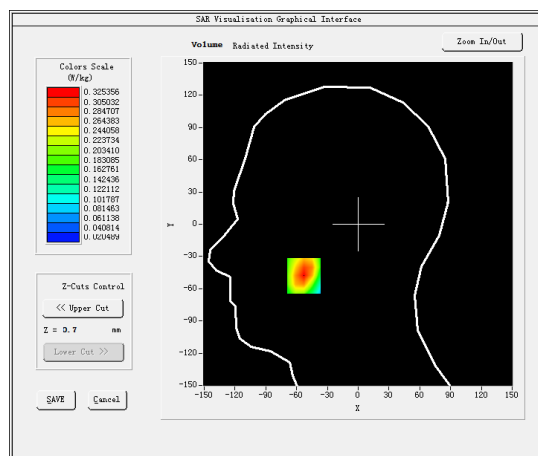
B. SAR Measurement Results

Frequency (MHz)	1732.600000
Relative permittivity (real part)	39.136761
Relative permittivity (imaginary part)	13.799881
Conductivity (S/m)	1.327855
Variation (%)	-0.650000

SURFACE SAR



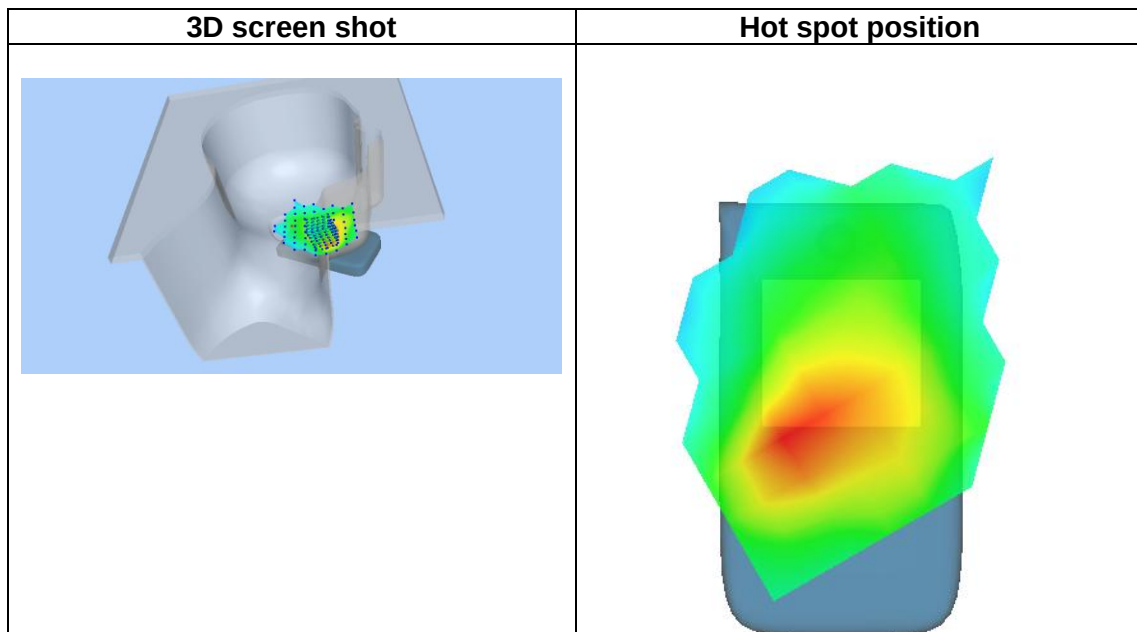
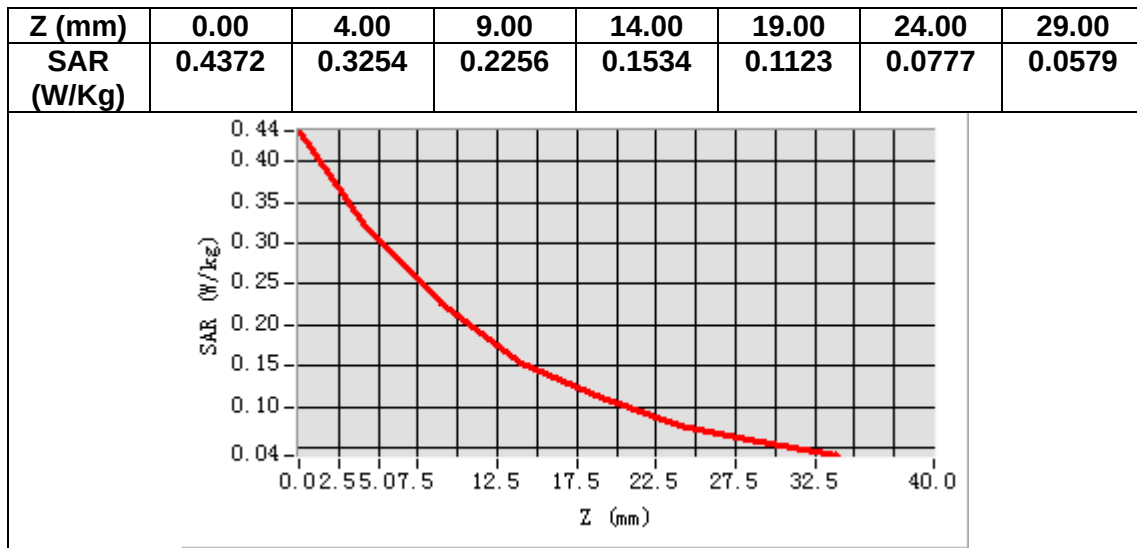
VOLUME SAR



Maximum location: X=-53.00, Y=-48.00

SAR Peak: 0.44 W/kg

SAR 10g (W/Kg)	0.196558
SAR 1g (W/Kg)	0.308323



MEASUREMENT 8

Date of measurement: 21/9/2022

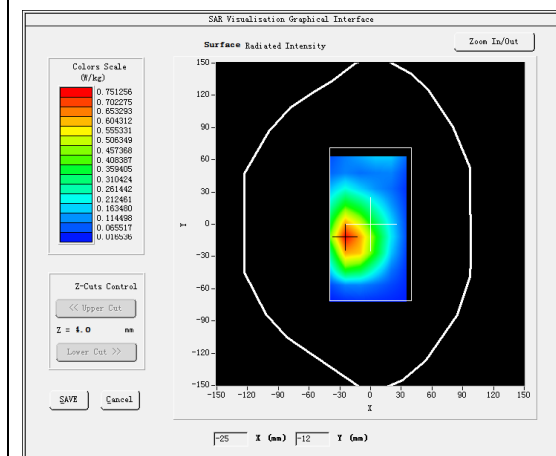
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>Band4 WCDMA1700</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>1.73</u>

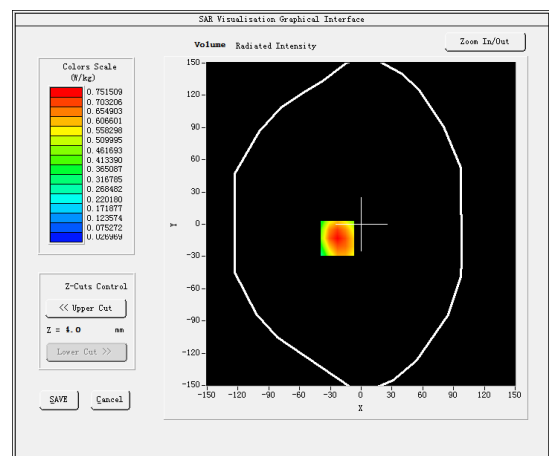
B. SAR Measurement Results

Frequency (MHz)	1732.600000
Relative permittivity (real part)	39.136761
Relative permittivity (imaginary part)	13.799881
Conductivity (S/m)	1.327855
Variation (%)	-0.620000

SURFACE SAR



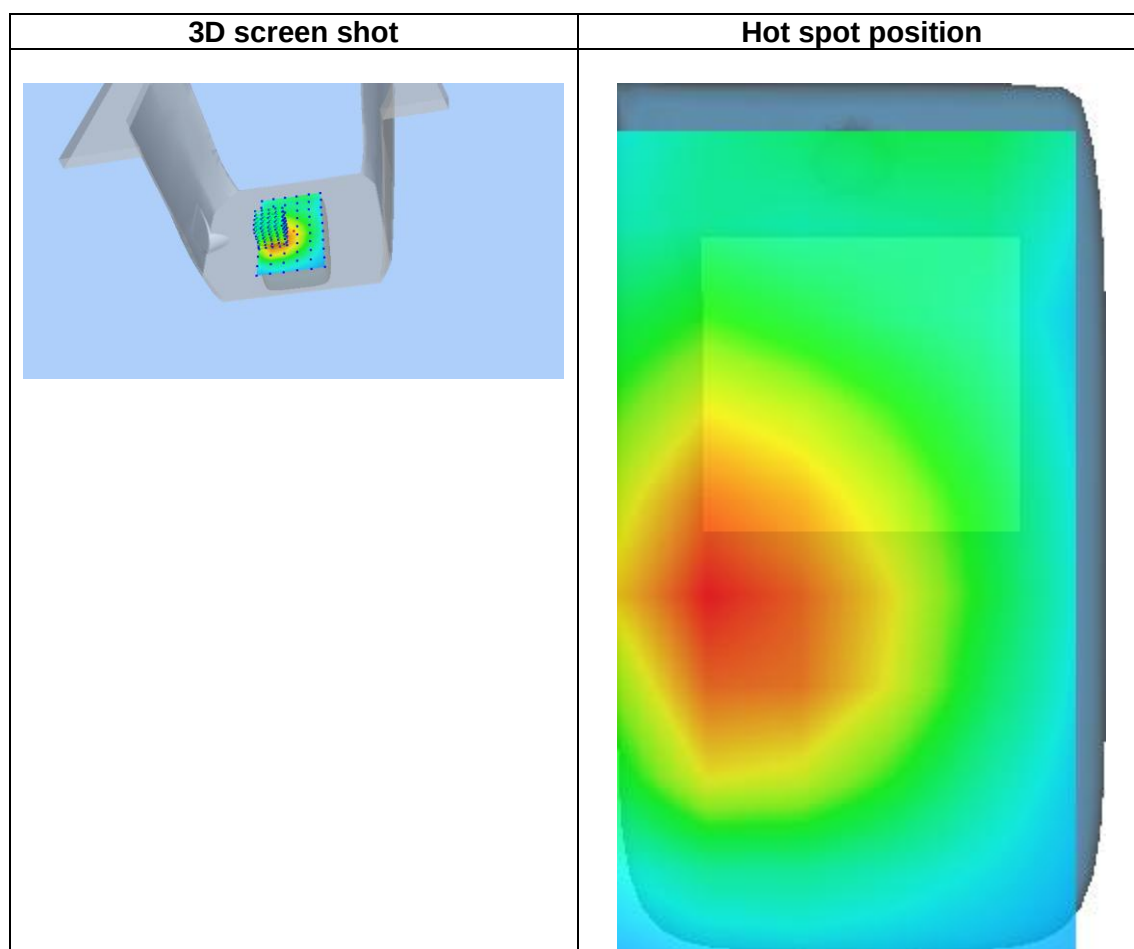
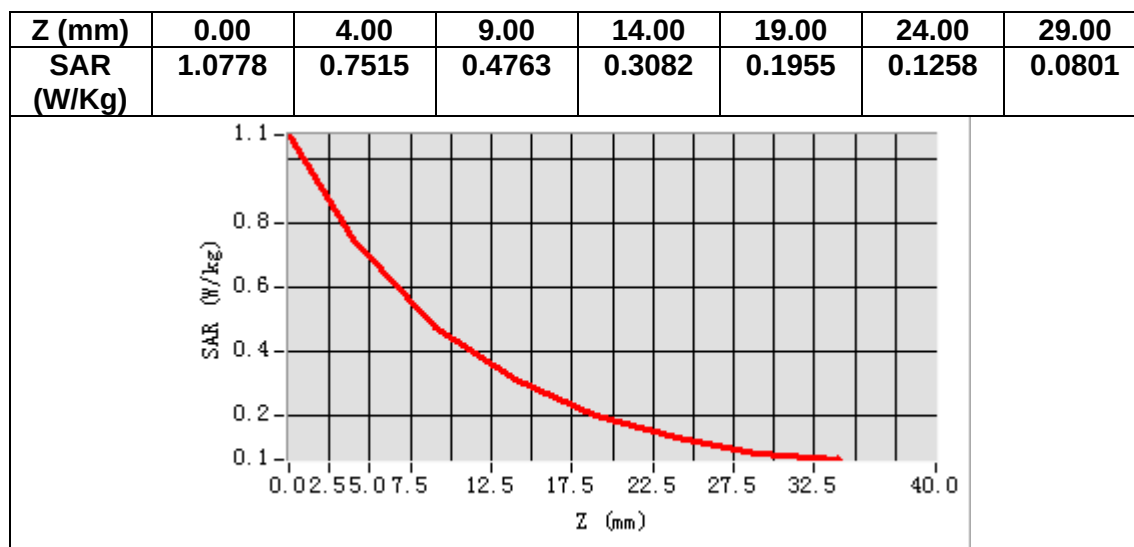
VOLUME SAR



Maximum location: X=-23.00, Y=-13.00

SAR Peak: 1.08 W/kg

SAR 10g (W/Kg)	0.440894
SAR 1g (W/Kg)	0.719304



MEASUREMENT 9

Date of measurement: 12/9/2022

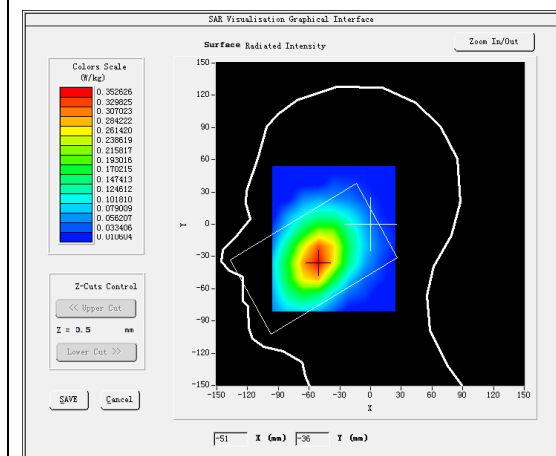
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>Band5 WCDMA850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>1.50</u>

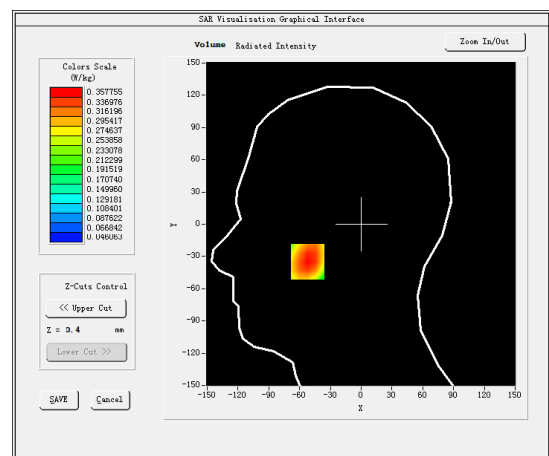
B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative permittivity (real part)	41.419331
Relative permittivity (imaginary part)	20.069847
Conductivity (S/m)	0.932579
Variation (%)	-0.420000

SURFACE SAR



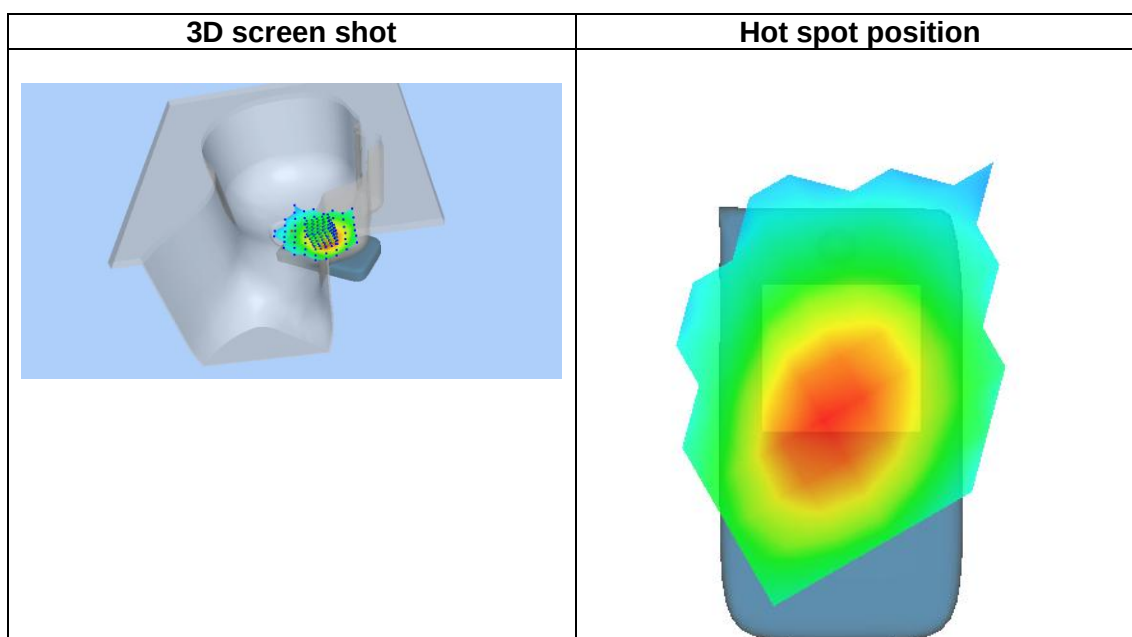
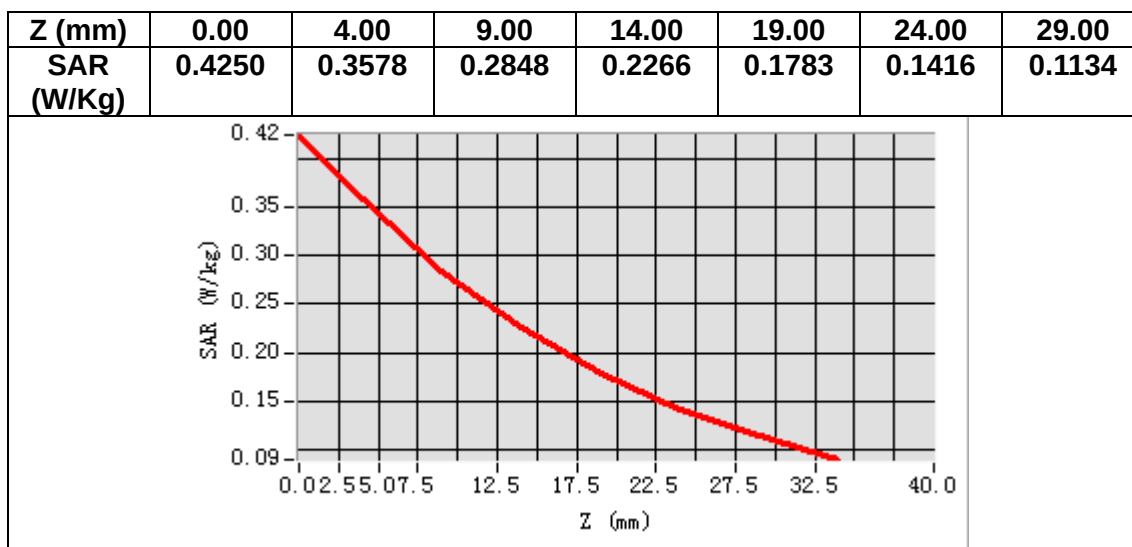
VOLUME SAR



Maximum location: X=-52.00, Y=-35.00

SAR Peak: 0.43 W/kg

SAR 10g (W/Kg)	0.263333
SAR 1g (W/Kg)	0.353974



MEASUREMENT 10

Date of measurement: 12/9/2022

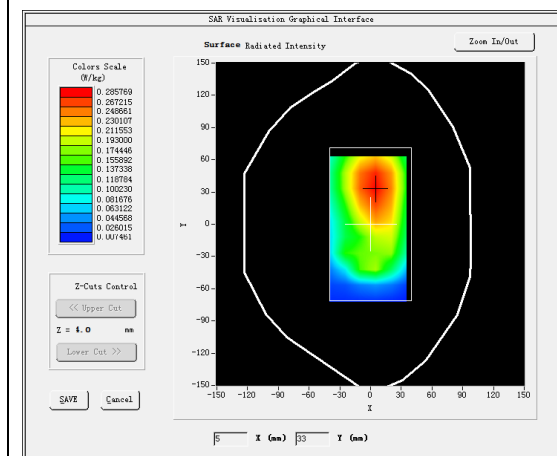
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>Band5 WCDMA850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>1.50</u>

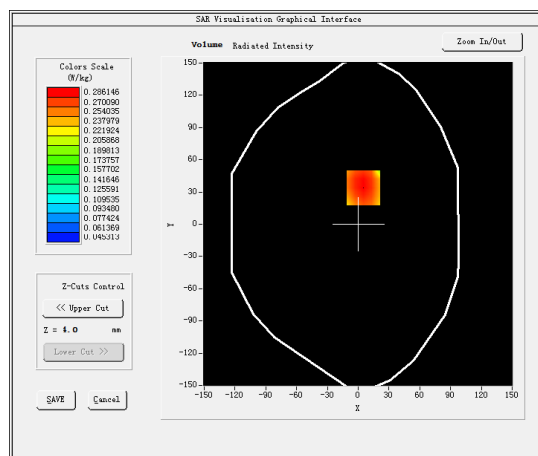
B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative permittivity (real part)	41.419331
Relative permittivity (imaginary part)	20.069847
Conductivity (S/m)	0.932579
Variation (%)	0.210000

SURFACE SAR



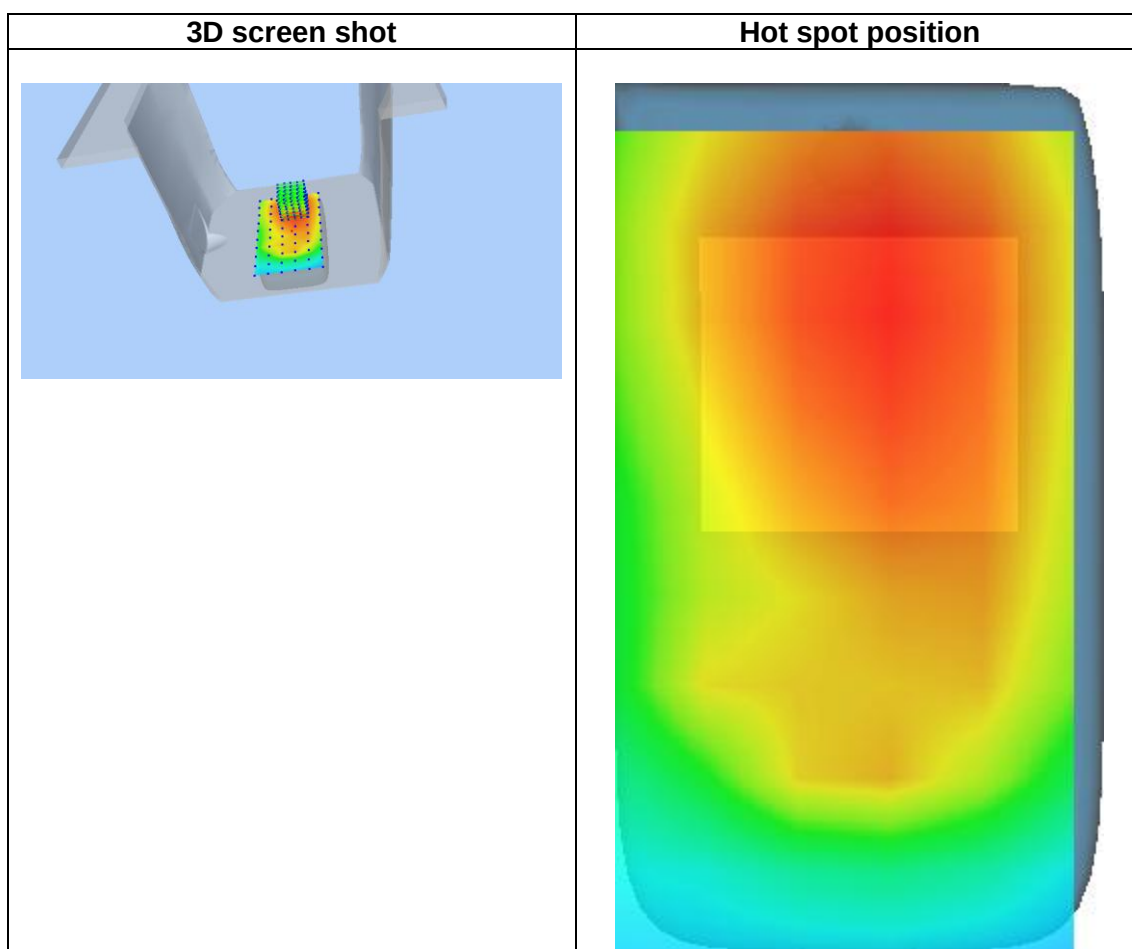
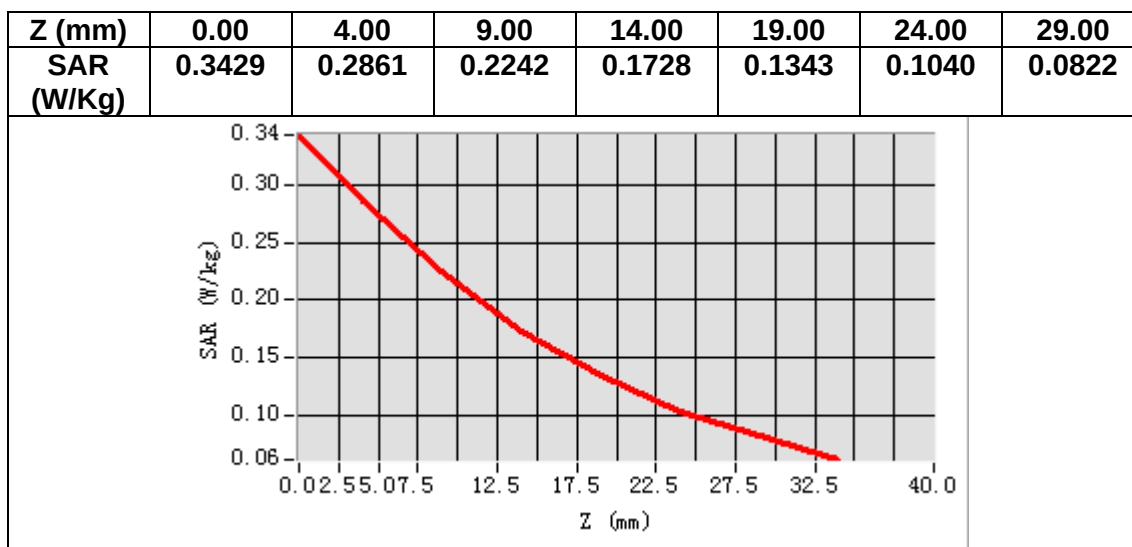
VOLUME SAR



Maximum location: X=5.00, Y=34.00

SAR Peak: 0.35 W/kg

SAR 10g (W/Kg)	0.211536
SAR 1g (W/Kg)	0.283489



MEASUREMENT 11

Date of measurement: 16/9/2022

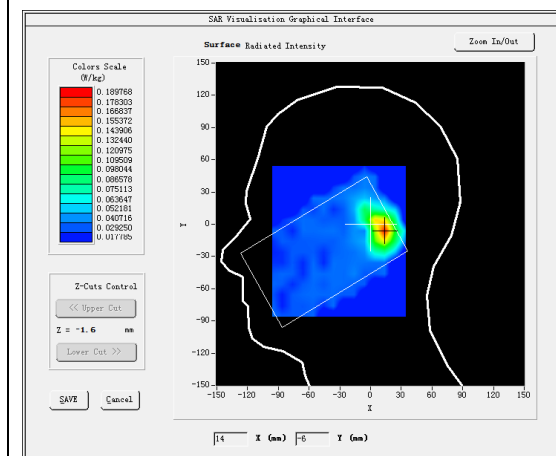
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=10mm dy=10mm, h= 2.00 mm</u>
<u>ZoomScan</u>	<u>7x7x12,dx=4mm dy=4mm dz=2mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>IEEE 802.11a U-NII</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>IEEE802.11a (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>1.80</u>

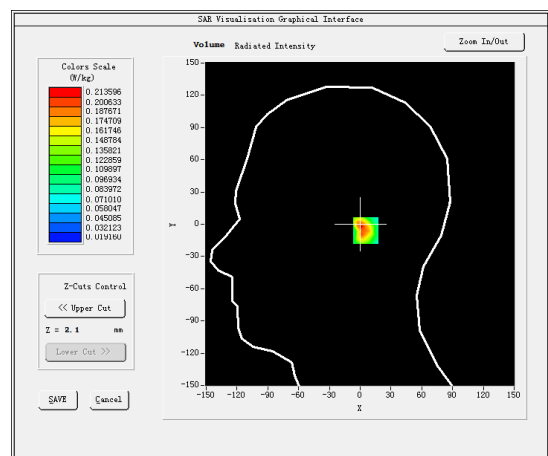
B. SAR Measurement Results

Frequency (MHz)	5200.000000
Relative permittivity (real part)	35.238636
Relative permittivity (imaginary part)	15.554736
Conductivity (S/m)	4.493590
Variation (%)	-4.310000

SURFACE SAR



VOLUME SAR

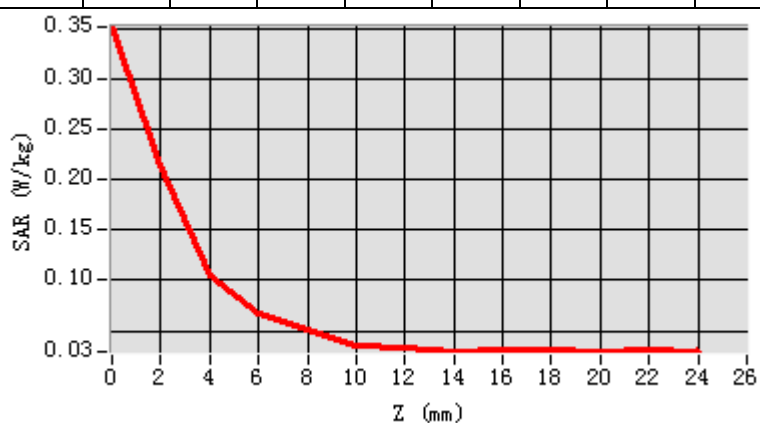


Maximum location: X=14.00, Y=-6.00

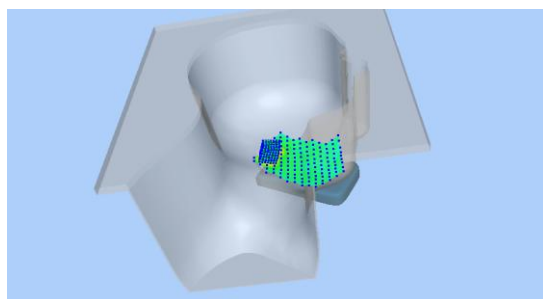
SAR Peak: 0.56 W/kg

SAR 10g (W/Kg)	0.092364
SAR 1g (W/Kg)	0.203797

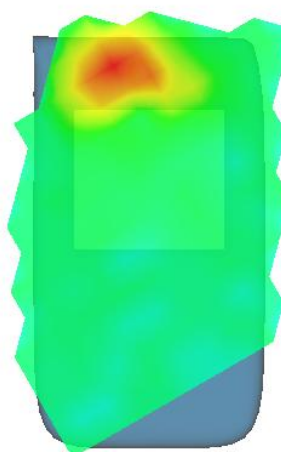
Z (m m)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
SAR (W/ Kg)	0.35 10	0.21 36	0.10 45	0.06 78	0.05 15	0.03 53	0.03 34	0.02 95	0.03 20	0.03 21	0.02 98	0.03 24



3D screen shot



Hot spot position



MEASUREMENT 12

Date of measurement: 15/9/2022

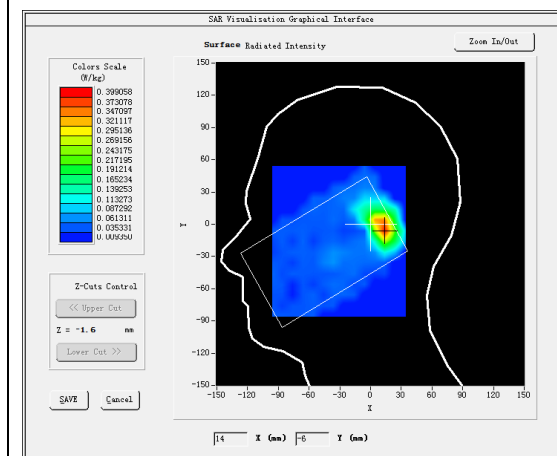
A. Experimental conditions.

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

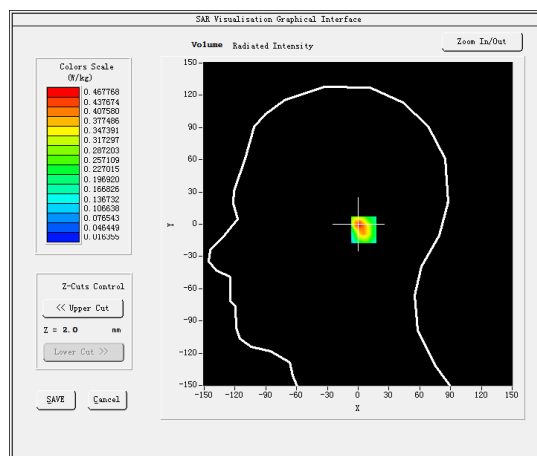
B. SAR Measurement Results

Frequency (MHz)	5795.000000
Relative permittivity (real part)	34.128091
Relative permittivity (imaginary part)	15.861044
Conductivity (S/m)	5.106375
Variation (%)	2.910000

SURFACE SAR



VOLUME SAR

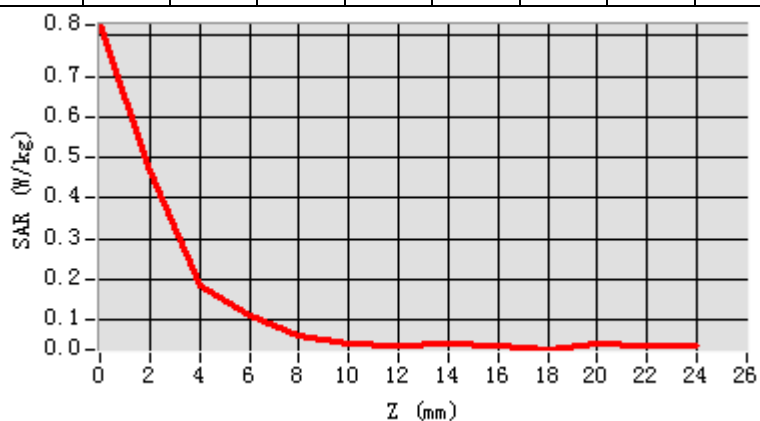


Maximum location: X=14.00, Y=-5.00

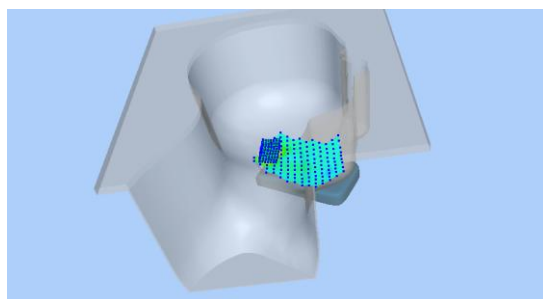
SAR Peak: 1.32 W/kg

SAR 10g (W/Kg)	0.180653
SAR 1g (W/Kg)	0.452524

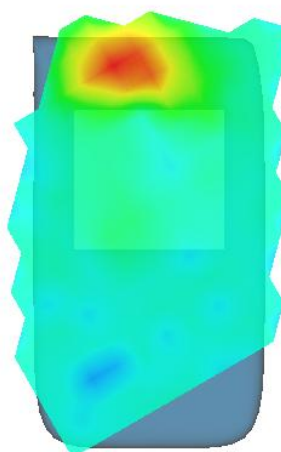
Z (m m)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
SAR (W/ Kg)	0.82 56	0.46 78	0.18 51	0.11 17	0.06 05	0.04 14	0.03 83	0.04 18	0.03 68	0.02 76	0.04 07	0.03 91



3D screen shot



Hot spot position



MEASUREMENT 13

Date of measurement: 16/9/2022

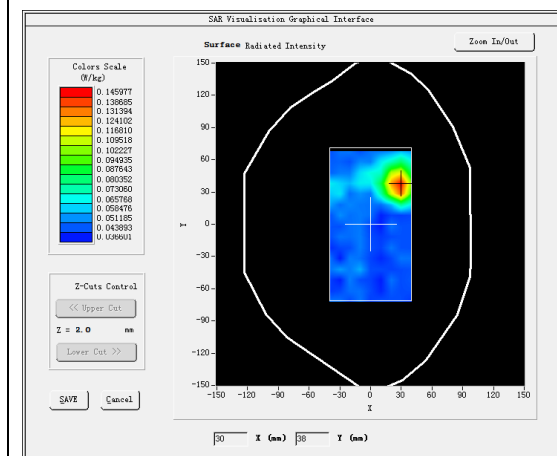
A. Experimental conditions.

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

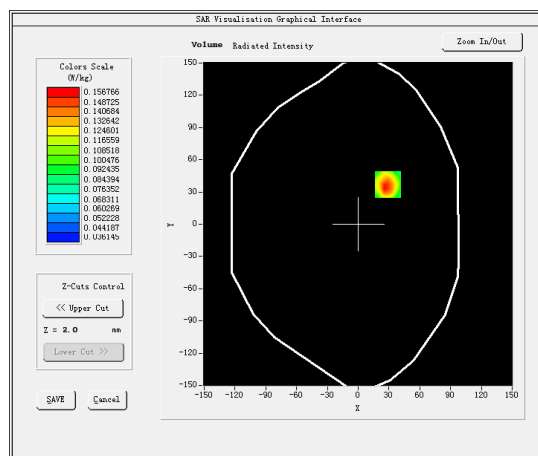
B. SAR Measurement Results

Frequency (MHz)	5200.000000
Relative permittivity (real part)	35.238636
Relative permittivity (imaginary part)	15.554736
Conductivity (S/m)	4.493590
Variation (%)	4.460000

SURFACE SAR



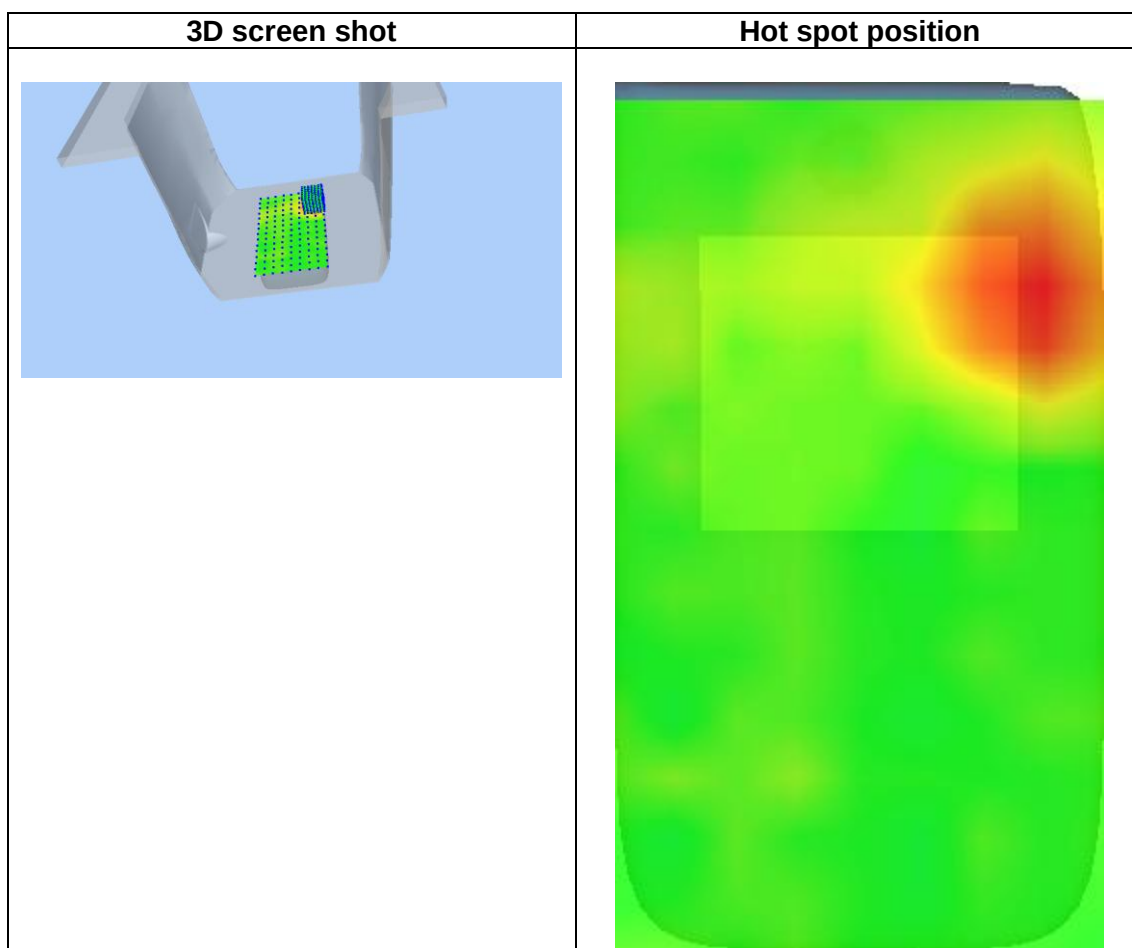
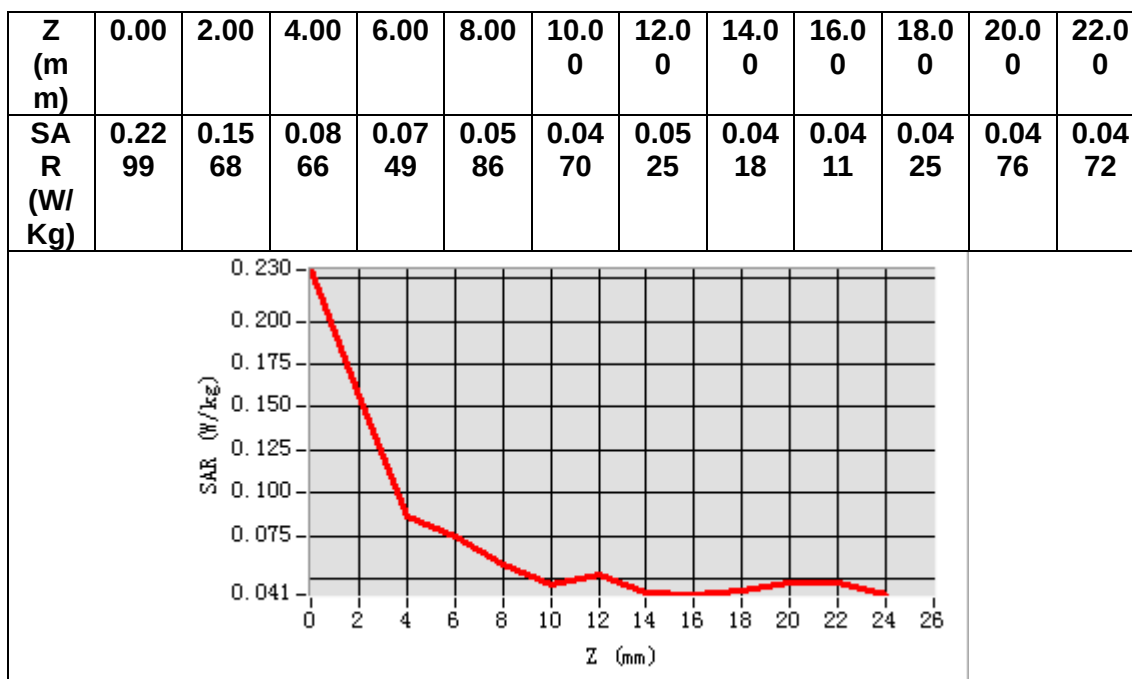
VOLUME SAR



Maximum location: X=29.00, Y=37.00

SAR Peak: 0.25 W/kg

SAR 10g (W/Kg)	0.069230
SAR 1g (W/Kg)	0.109757



MEASUREMENT 14

Date of measurement: 15/9/2022

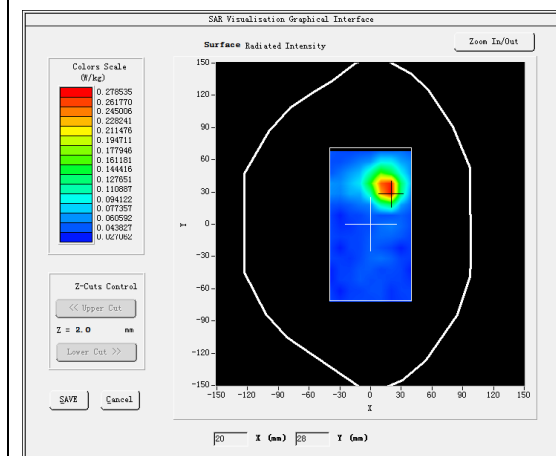
A. Experimental conditions.

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

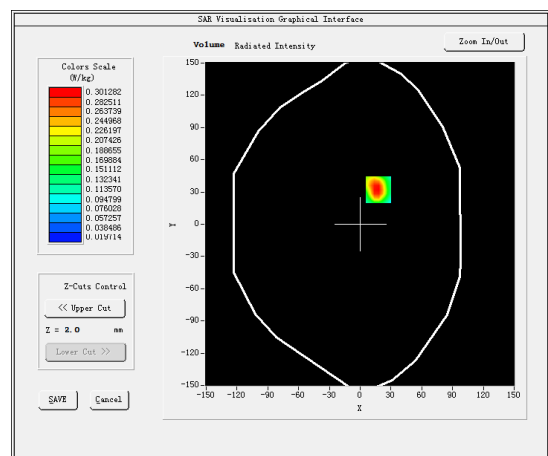
B. SAR Measurement Results

Frequency (MHz)	5795.000000
Relative permittivity (real part)	34.128091
Relative permittivity (imaginary part)	15.861044
Conductivity (S/m)	5.106375
Variation (%)	-0.640000

SURFACE SAR



VOLUME SAR

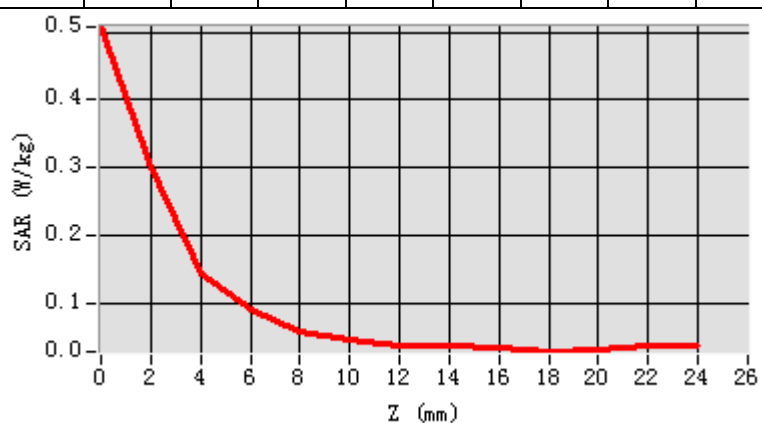


Maximum location: X=18.00, Y=32.00

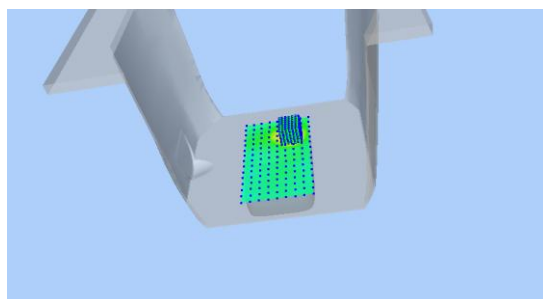
SAR Peak: 0.55 W/kg

SAR 10g (W/Kg)	0.091266
SAR 1g (W/Kg)	0.190246

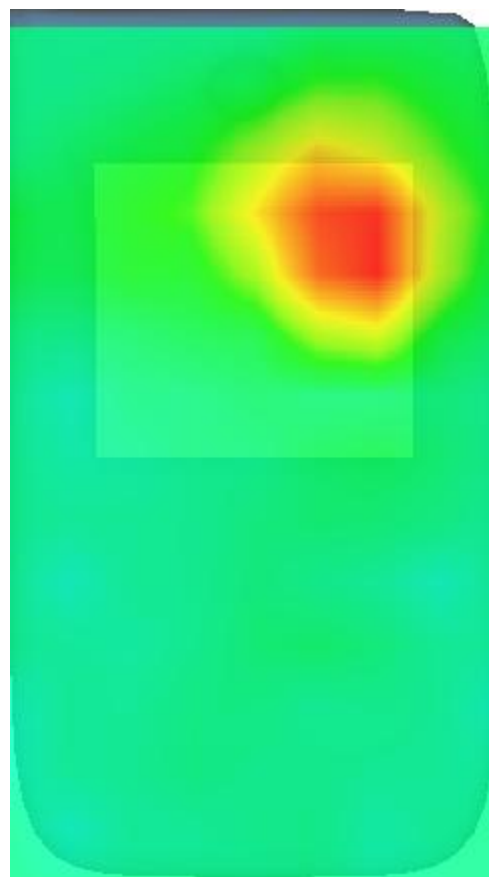
Z (m m)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
SA R (W/ Kg)	0.50 81	0.30 13	0.14 40	0.08 99	0.05 73	0.04 44	0.03 72	0.03 63	0.03 40	0.02 74	0.03 18	0.03 53



3D screen shot



Hot spot position



MEASUREMENT 15

Date of measurement: 7/9/2022

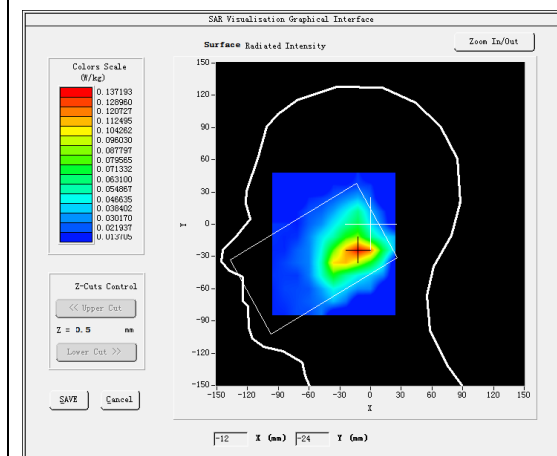
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>IEEE 802.11b ISM</u>
<u>Channels</u>	<u>High</u>
<u>Signal</u>	<u>IEEE802.11b (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>1.98</u>

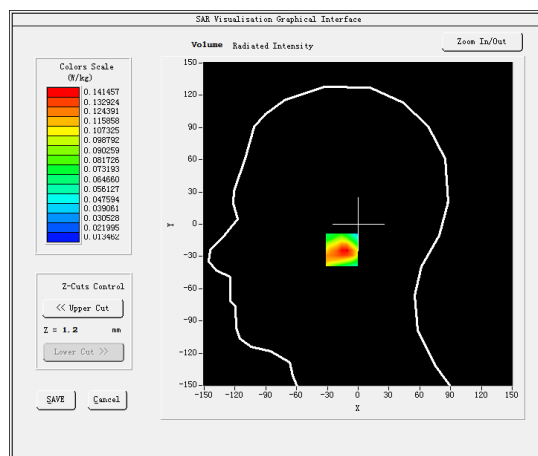
B. SAR Measurement Results

Frequency (MHz)	2462.000000
Relative permittivity (real part)	37.900835
Relative permittivity (imaginary part)	13.211403
Conductivity (S/m)	1.807026
Variation (%)	0.560000

SURFACE SAR



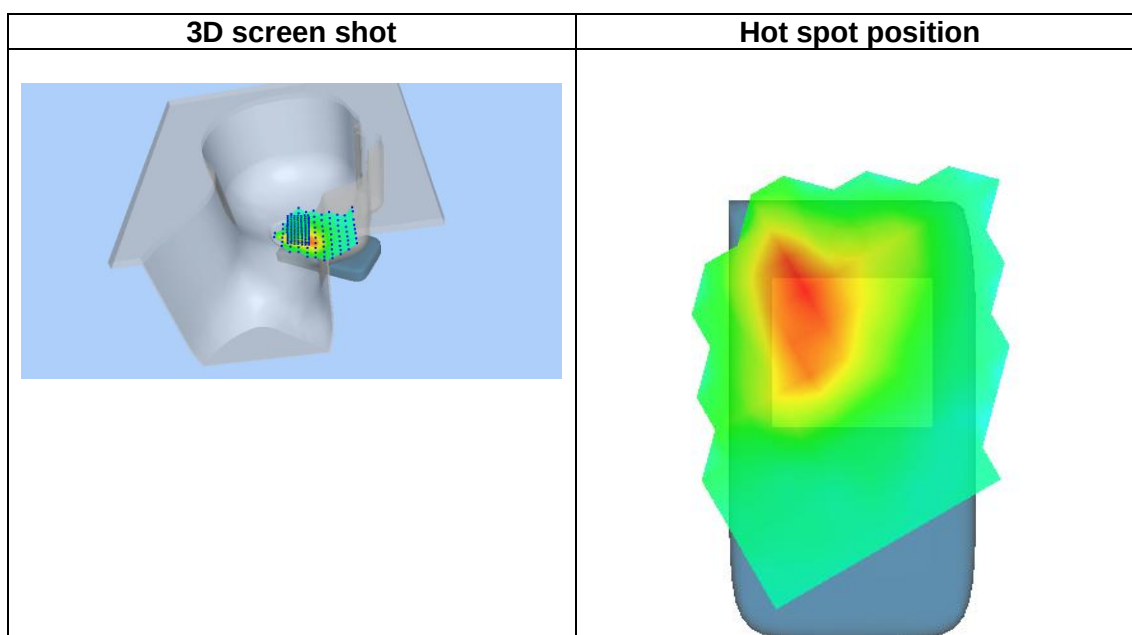
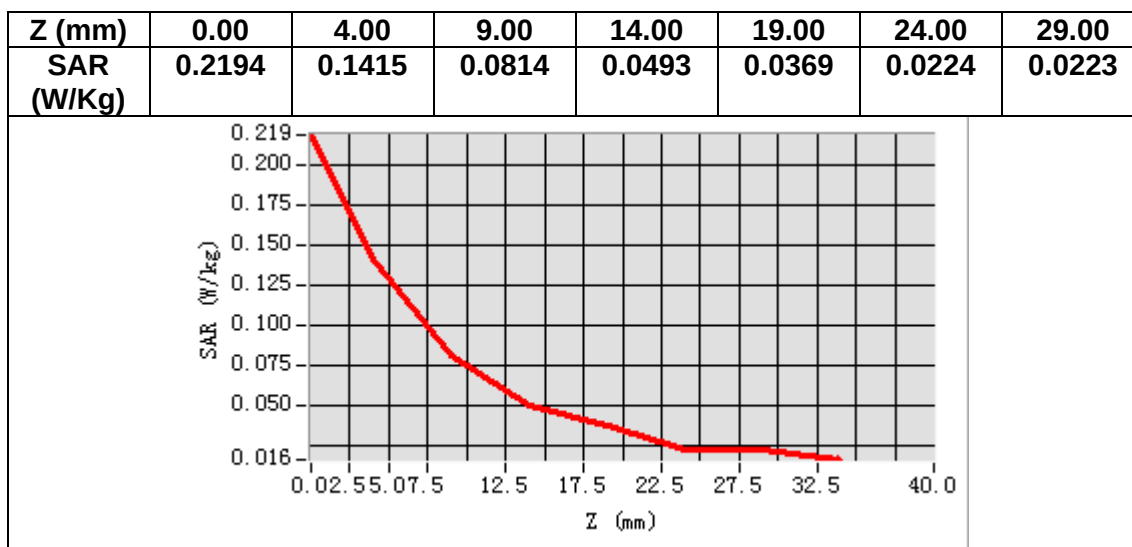
VOLUME SAR



Maximum location: X=-11.00, Y=-24.00

SAR Peak: 0.21 W/kg

SAR 10g (W/Kg)	0.075939
SAR 1g (W/Kg)	0.132460



MEASUREMENT 16

Date of measurement: 7/9/2022

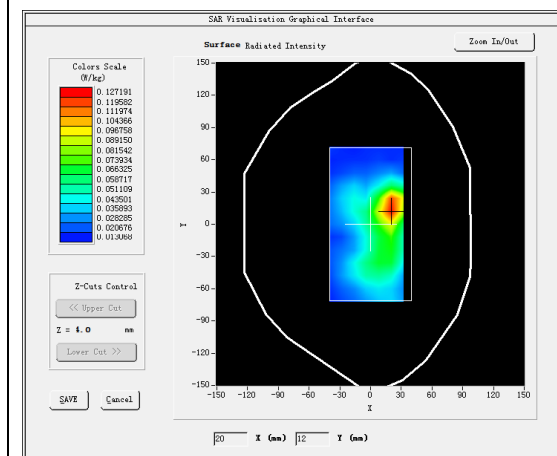
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>IEEE 802.11b ISM</u>
<u>Channels</u>	<u>High</u>
<u>Signal</u>	<u>IEEE802.11b (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>1.98</u>

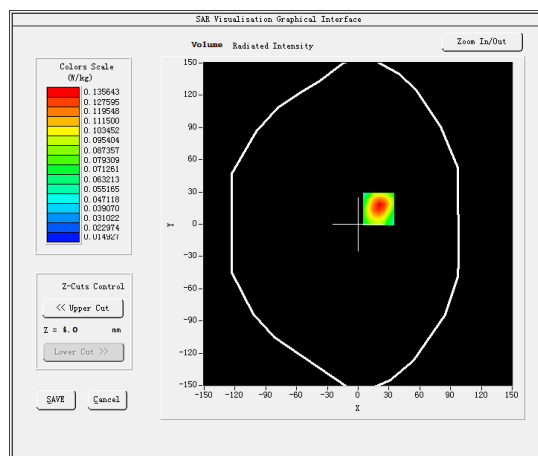
B. SAR Measurement Results

Frequency (MHz)	2462.000000
Relative permittivity (real part)	37.900835
Relative permittivity (imaginary part)	13.211403
Conductivity (S/m)	1.807026
Variation (%)	-1.590000

SURFACE SAR



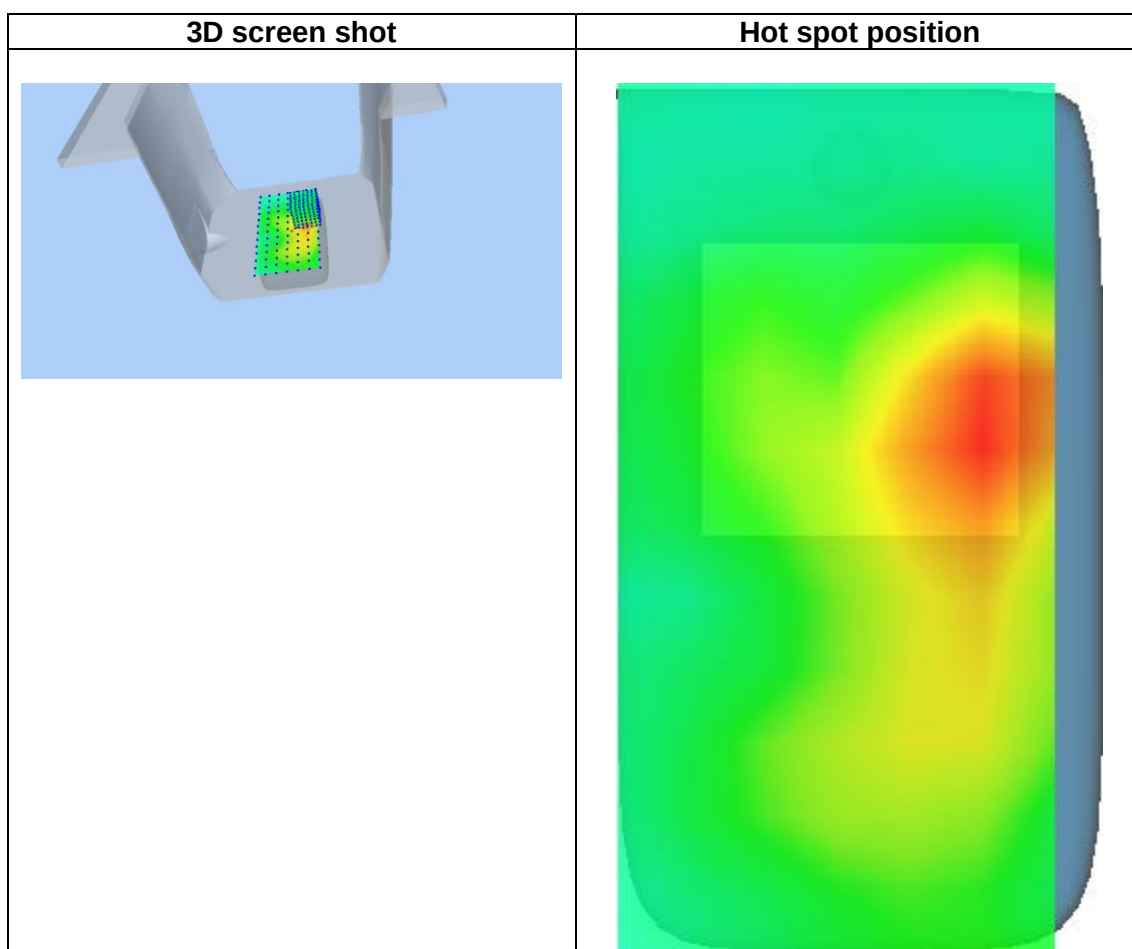
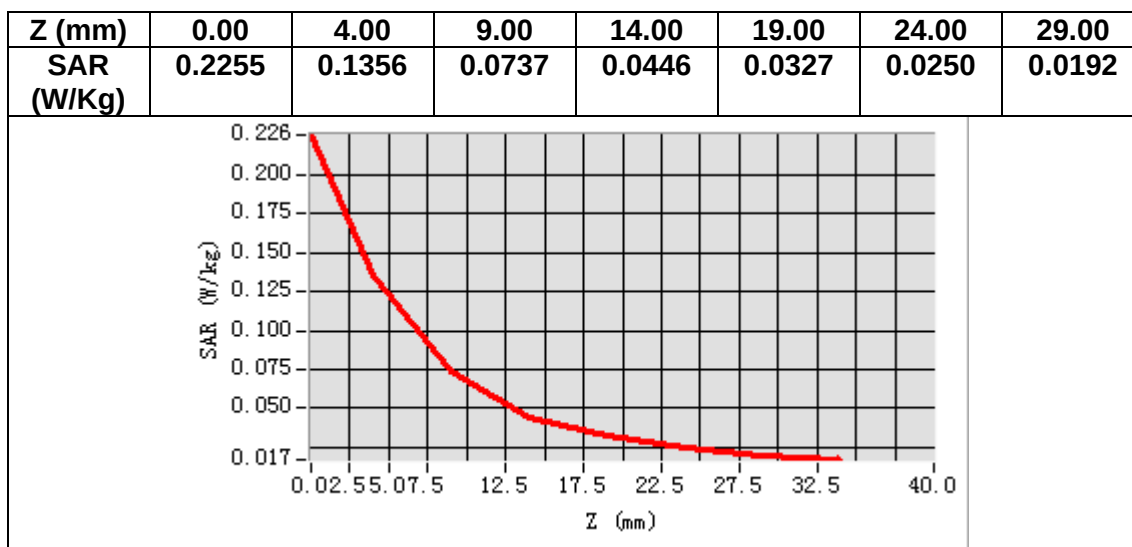
VOLUME SAR



Maximum location: X=20.00, Y=14.00

SAR Peak: 0.21 W/kg

SAR 10g (W/Kg)	0.072343
SAR 1g (W/Kg)	0.127731



MEASUREMENT 17

Date of measurement: 14/9/2022

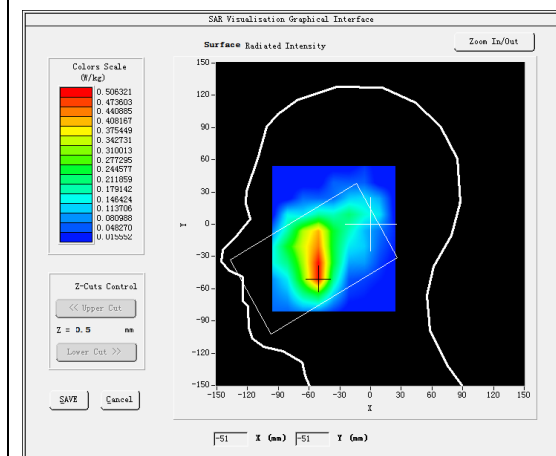
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 2</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>1.91</u>

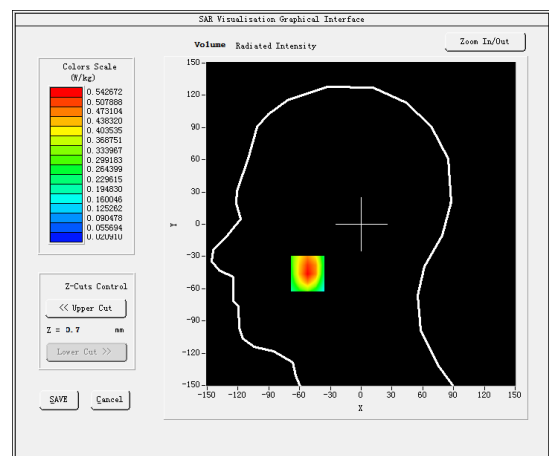
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.565529
Relative permittivity (imaginary part)	13.885053
Conductivity (S/m)	1.450217
Variation (%)	0.080000

SURFACE SAR



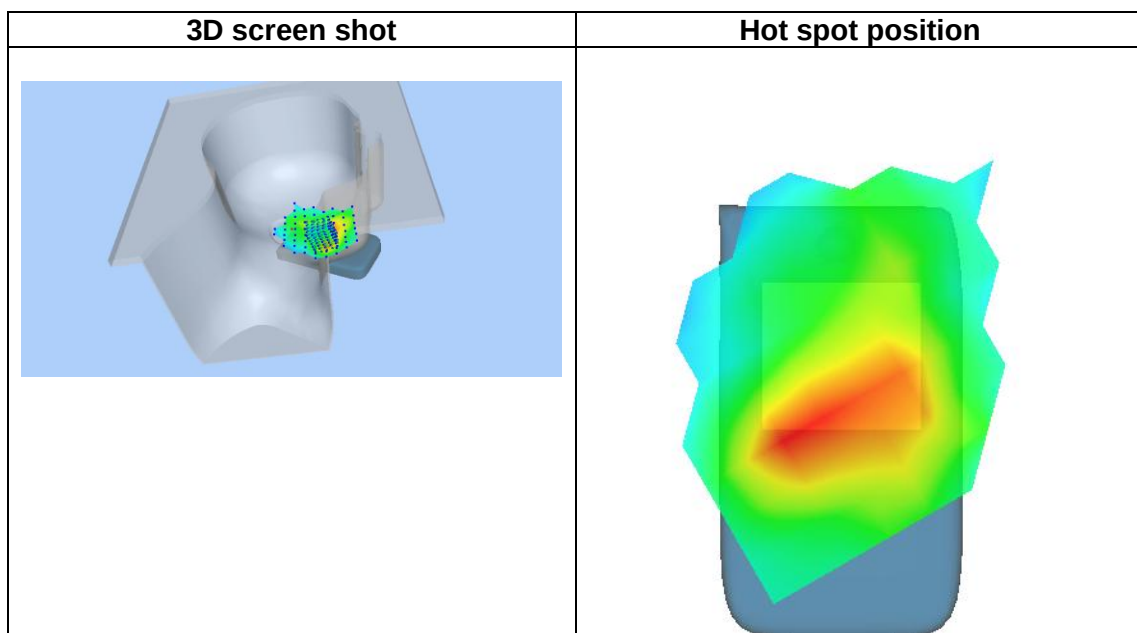
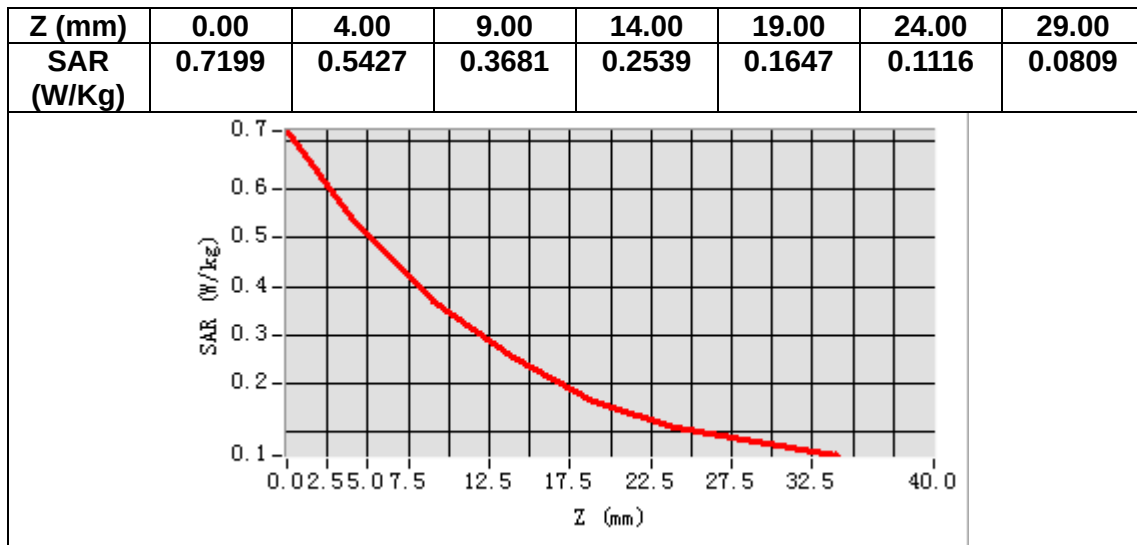
VOLUME SAR



Maximum location: X=-52.00, Y=-46.00

SAR Peak: 0.75 W/kg

SAR 10g (W/Kg)	0.319264
SAR 1g (W/Kg)	0.526743



MEASUREMENT 18

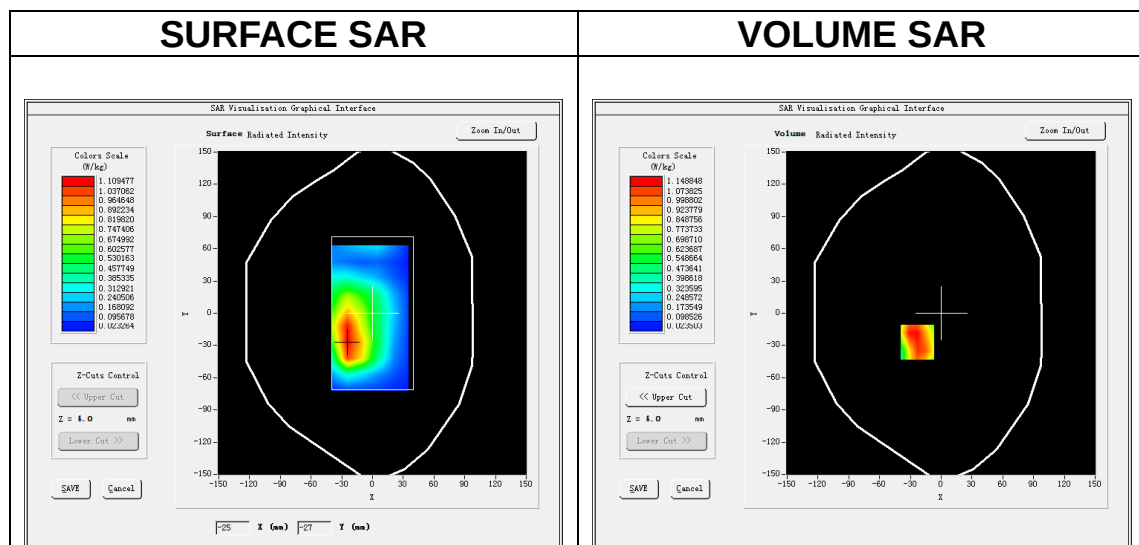
Date of measurement: 14/9/2022

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 2</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>1.91</u>

B. SAR Measurement Results

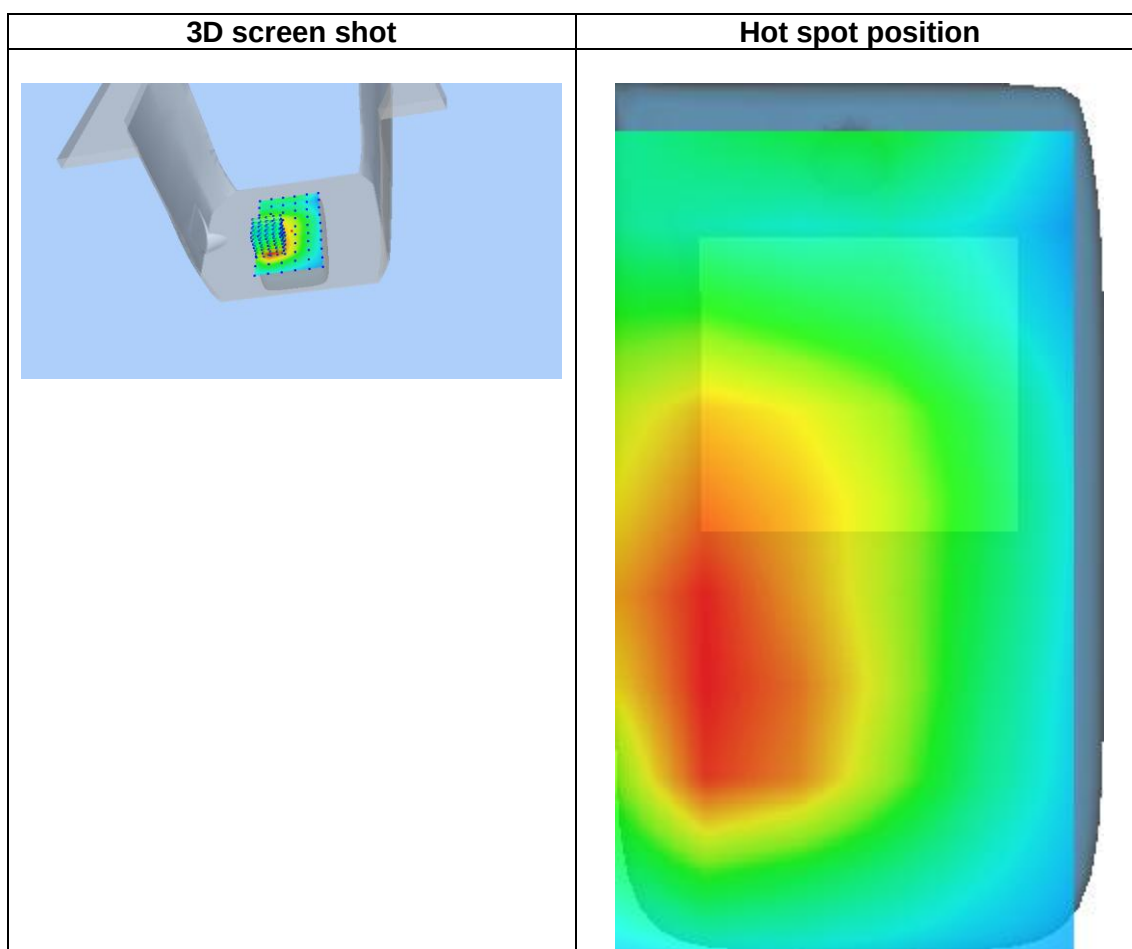
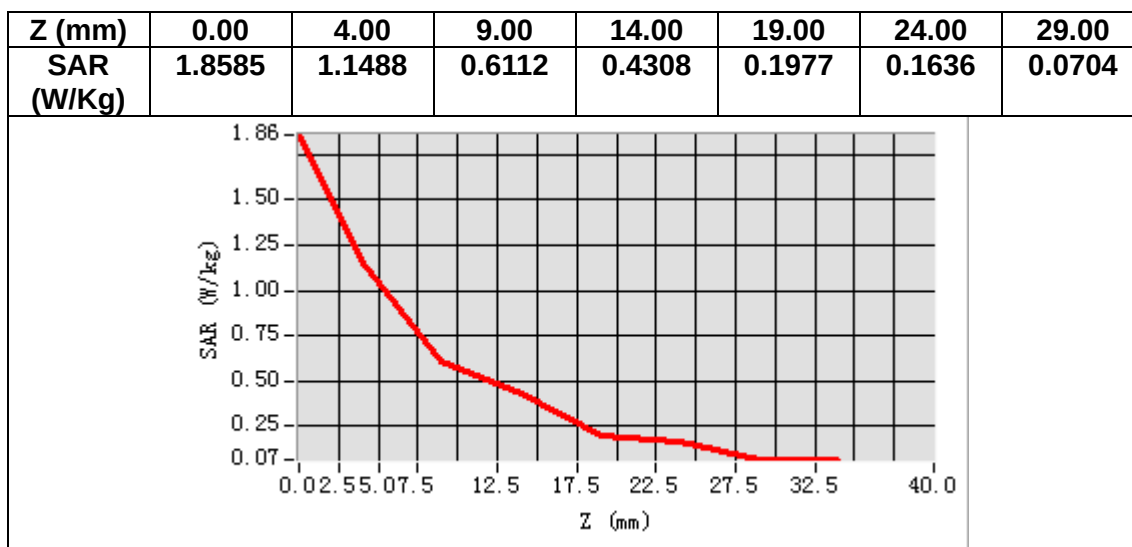
Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.565529
Relative permittivity (imaginary part)	13.885053
Conductivity (S/m)	1.450217
Variation (%)	-2.480000



Maximum location: X=-23.00, Y=-27.00

SAR Peak: 1.78 W/kg

SAR 10g (W/Kg)	0.647971
SAR 1g (W/Kg)	1.051606



MEASUREMENT 19

Date of measurement: 21/9/2022

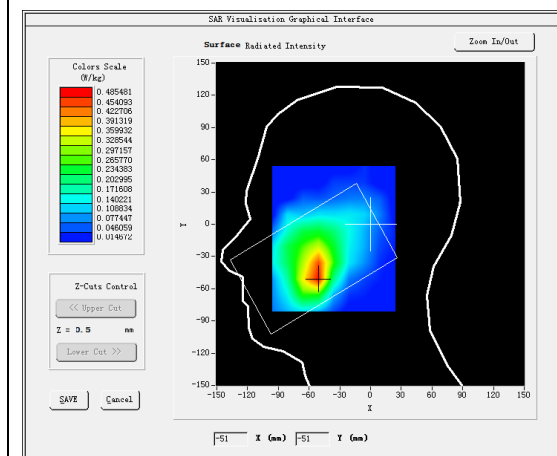
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 4</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>1.73</u>

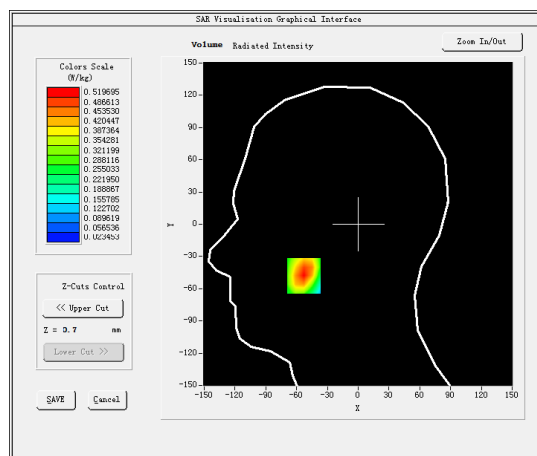
B. SAR Measurement Results

Frequency (MHz)	1732.500000
Relative permittivity (real part)	39.144661
Relative permittivity (imaginary part)	13.784731
Conductivity (S/m)	1.326780
Variation (%)	0.260000

SURFACE SAR



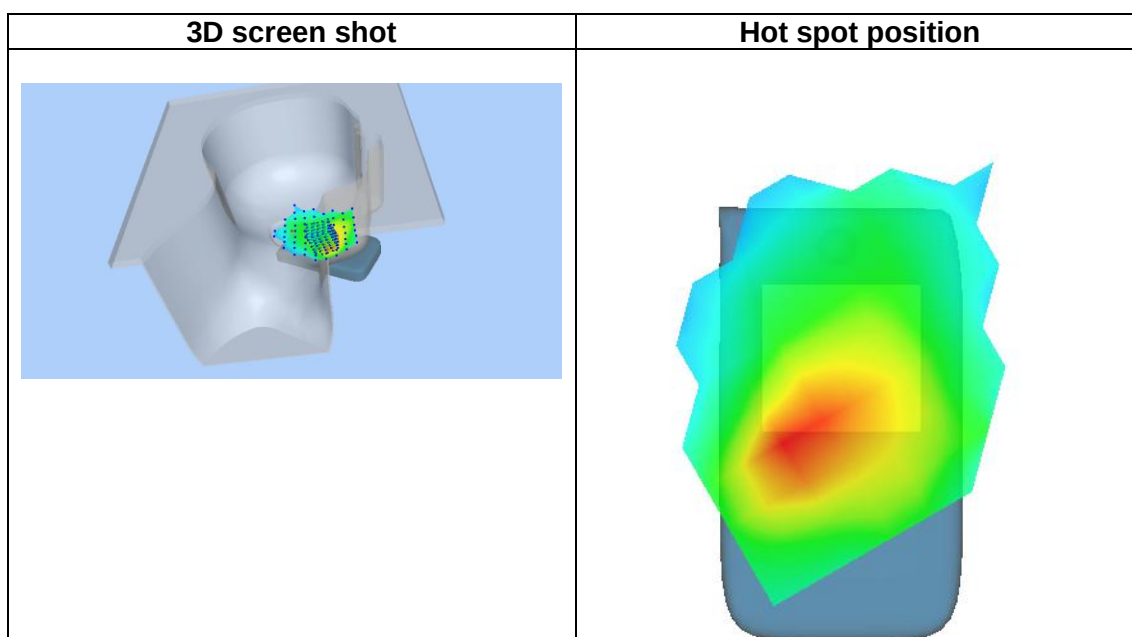
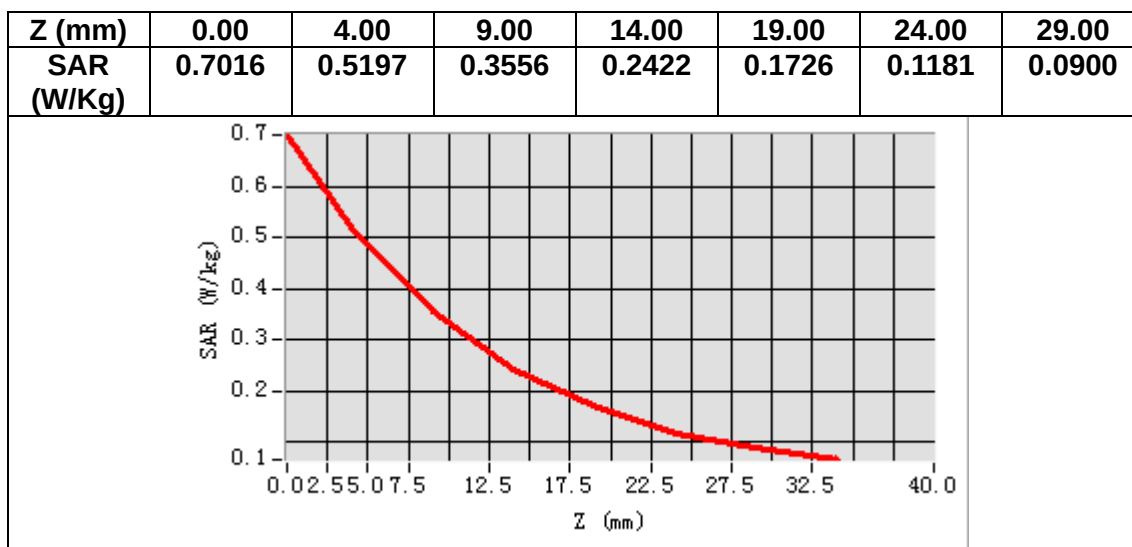
VOLUME SAR



Maximum location: X=-53.00, Y=-48.00

SAR Peak: 0.71 W/kg

SAR 10g (W/Kg)	0.308589
SAR 1g (W/Kg)	0.490977



MEASUREMENT 20

Date of measurement: 21/9/2022

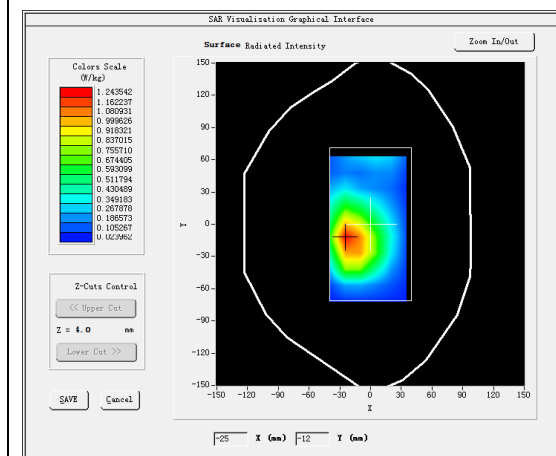
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 4</u>
<u>Channels</u>	<u>High</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>1.73</u>

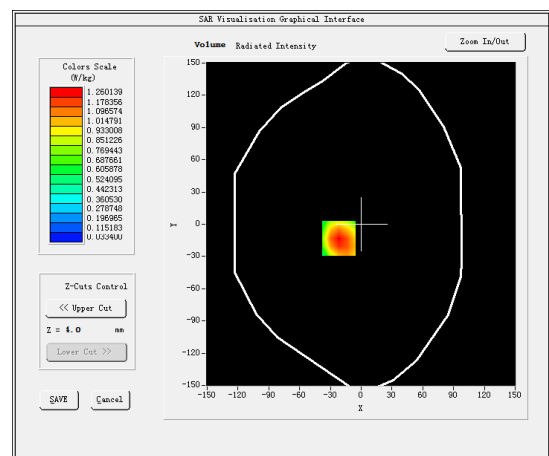
B. SAR Measurement Results

Frequency (MHz)	1745.000000
Relative permittivity (real part)	39.072862
Relative permittivity (imaginary part)	13.782281
Conductivity (S/m)	1.336116
Variation (%)	-1.730000

SURFACE SAR



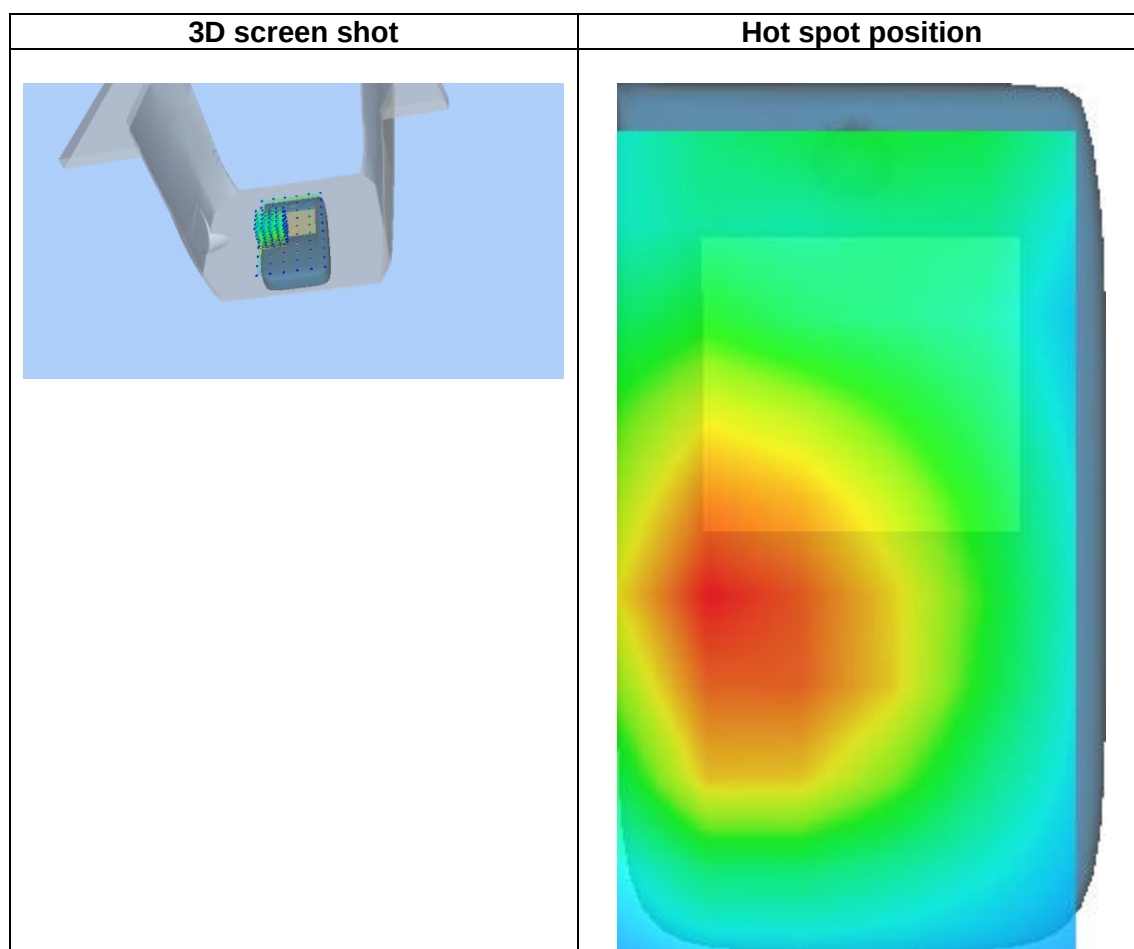
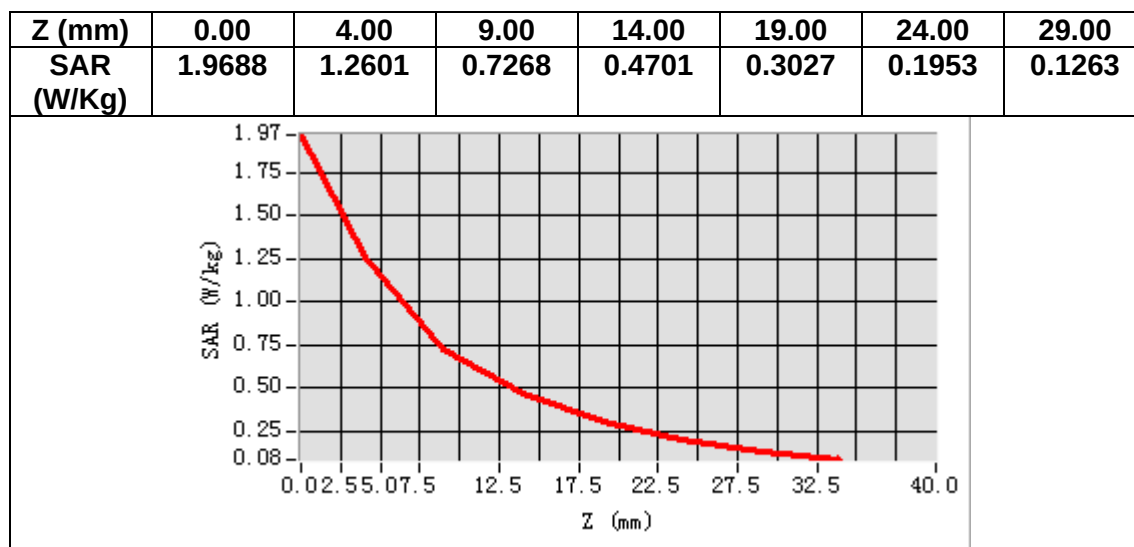
VOLUME SAR



Maximum location: X=-22.00, Y=-13.00

SAR Peak: 1.99 W/kg

SAR 10g (W/Kg)	0.718231
SAR 1g (W/Kg)	1.232013



MEASUREMENT 21

Date of measurement: 12/9/2022

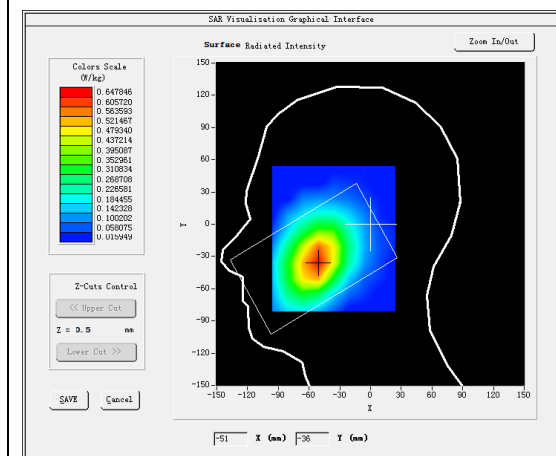
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 5</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>1.50</u>

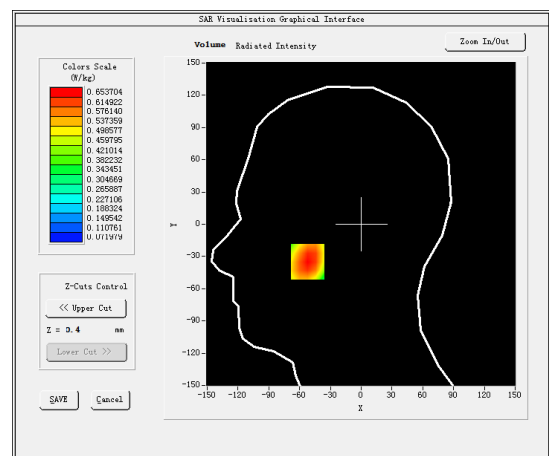
B. SAR Measurement Results

Frequency (MHz)	836.500000
Relative permittivity (real part)	41.421921
Relative permittivity (imaginary part)	20.068506
Conductivity (S/m)	0.932628
Variation (%)	-4.140000

SURFACE SAR



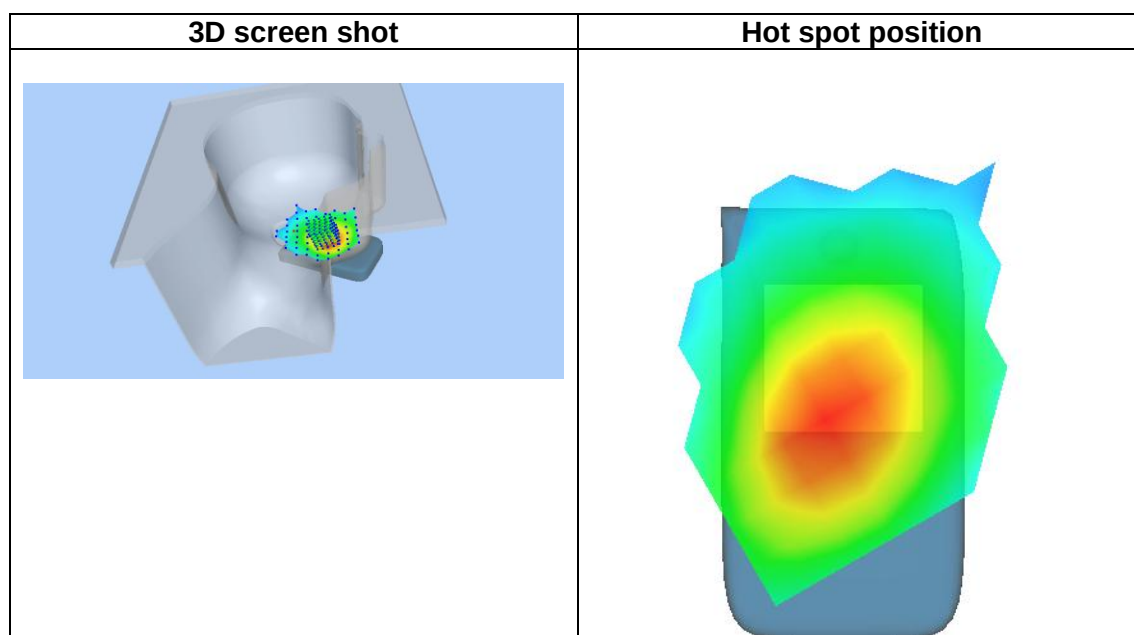
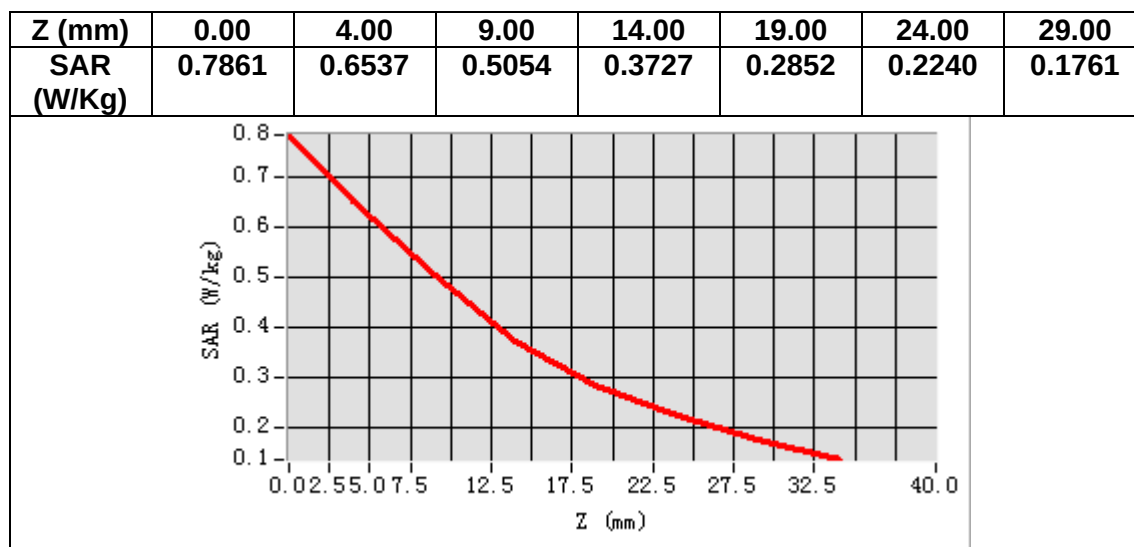
VOLUME SAR



Maximum location: X=-52.00, Y=-35.00

SAR Peak: 0.81 W/kg

SAR 10g (W/Kg)	0.457565
SAR 1g (W/Kg)	0.640375



MEASUREMENT 22

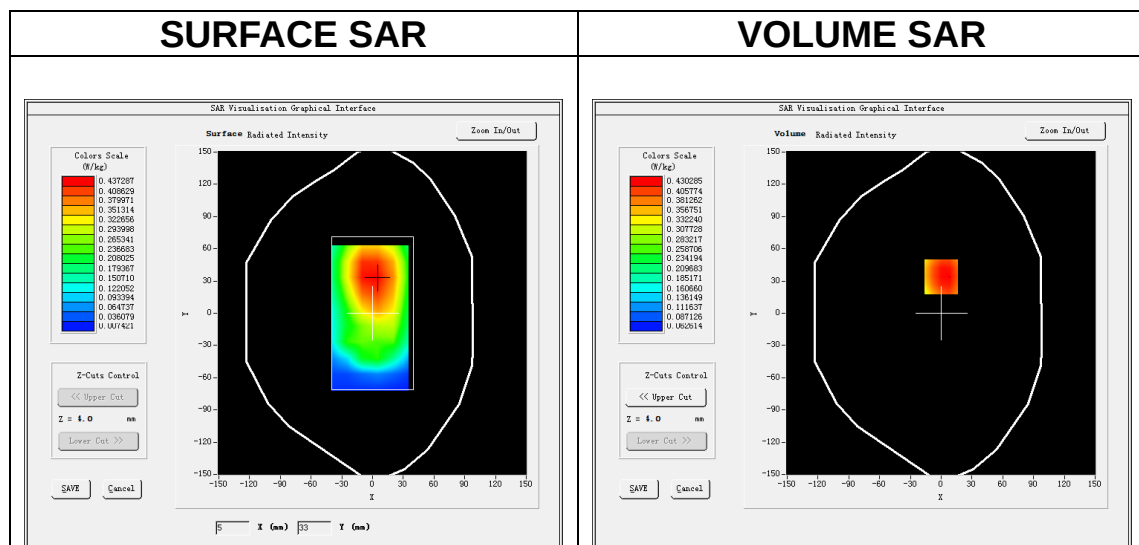
Date of measurement: 12/9/2022

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 5</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>1.50</u>

B. SAR Measurement Results

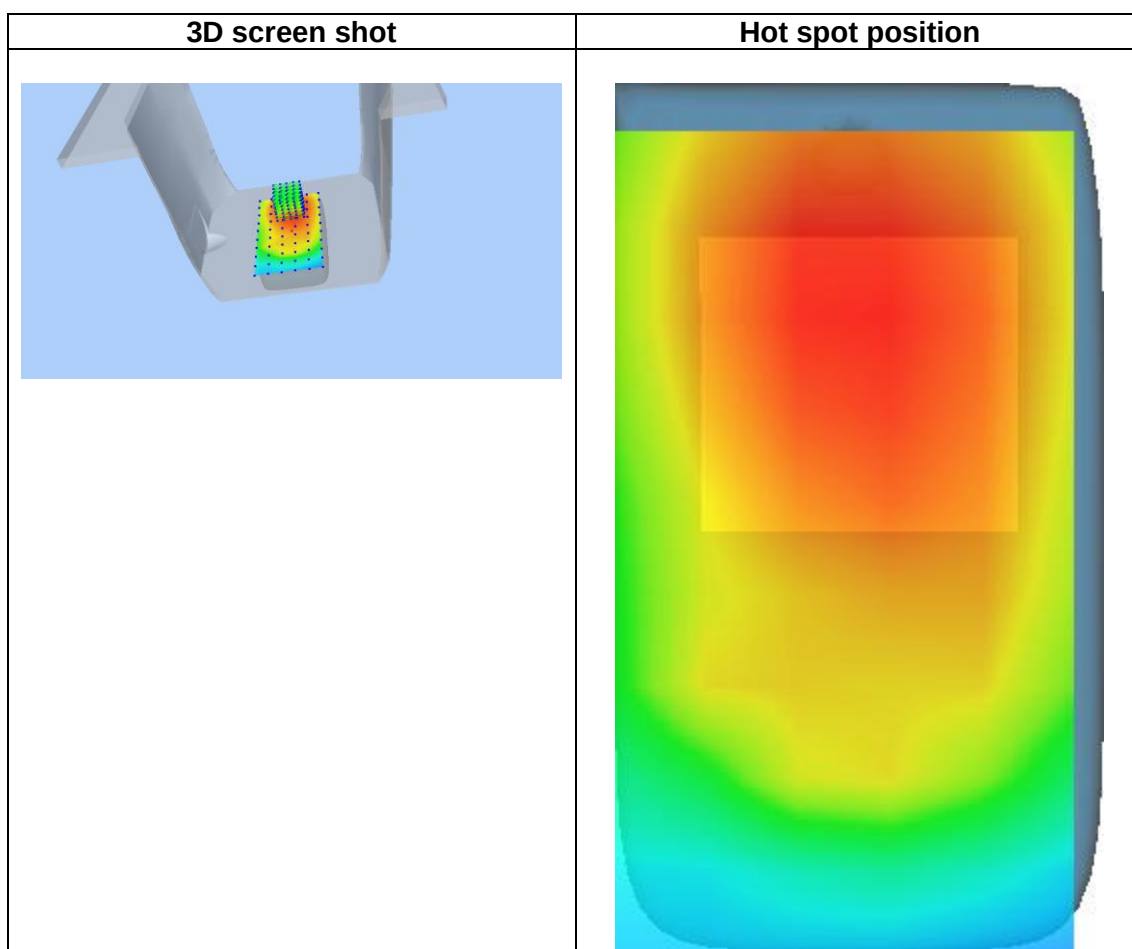
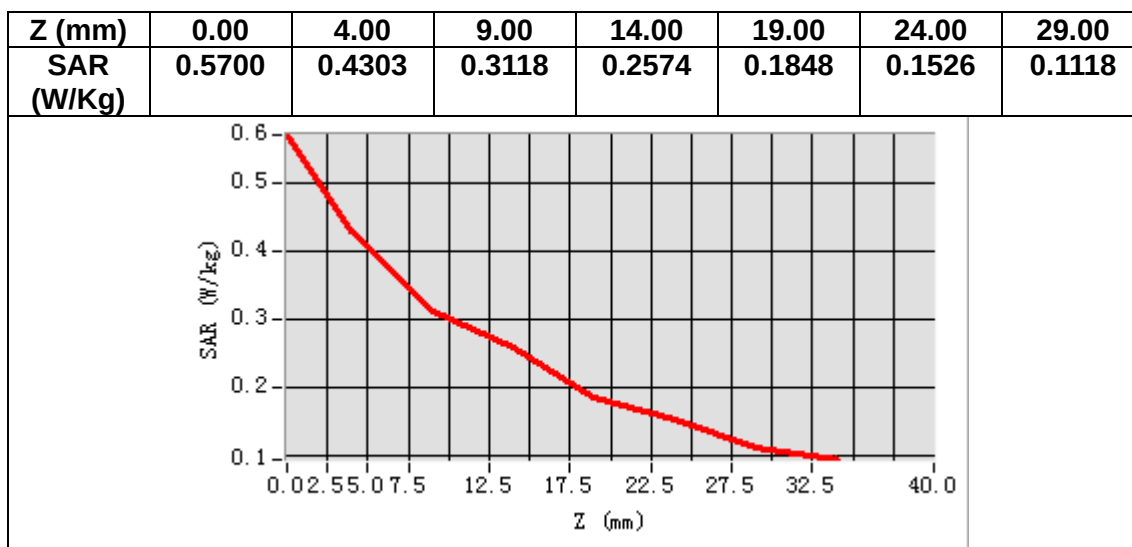
Frequency (MHz)	836.500000
Relative permittivity (real part)	41.421921
Relative permittivity (imaginary part)	20.068506
Conductivity (S/m)	0.932628
Variation (%)	-1.380000



Maximum location: X=0.00, Y=34.00

SAR Peak: 0.53 W/kg

SAR 10g (W/Kg)	0.318338
SAR 1g (W/Kg)	0.429458



MEASUREMENT 23

Date of measurement: 22/9/2022

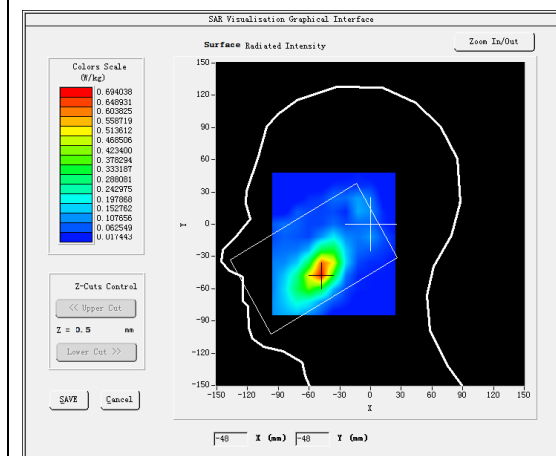
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 7</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>1.87</u>

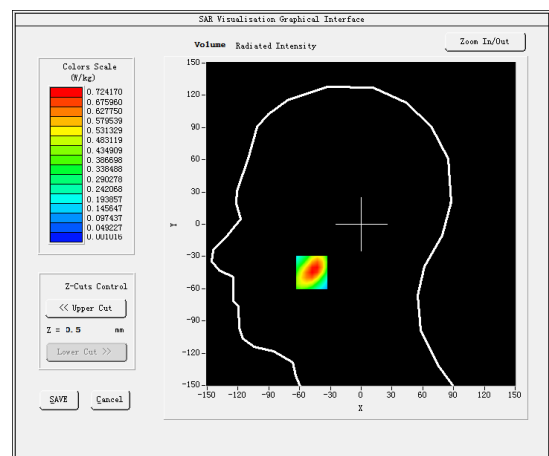
B. SAR Measurement Results

Frequency (MHz)	2535.000000
Relative permittivity (real part)	38.021152
Relative permittivity (imaginary part)	13.111235
Conductivity (S/m)	1.846499
Variation (%)	-1.440000

SURFACE SAR



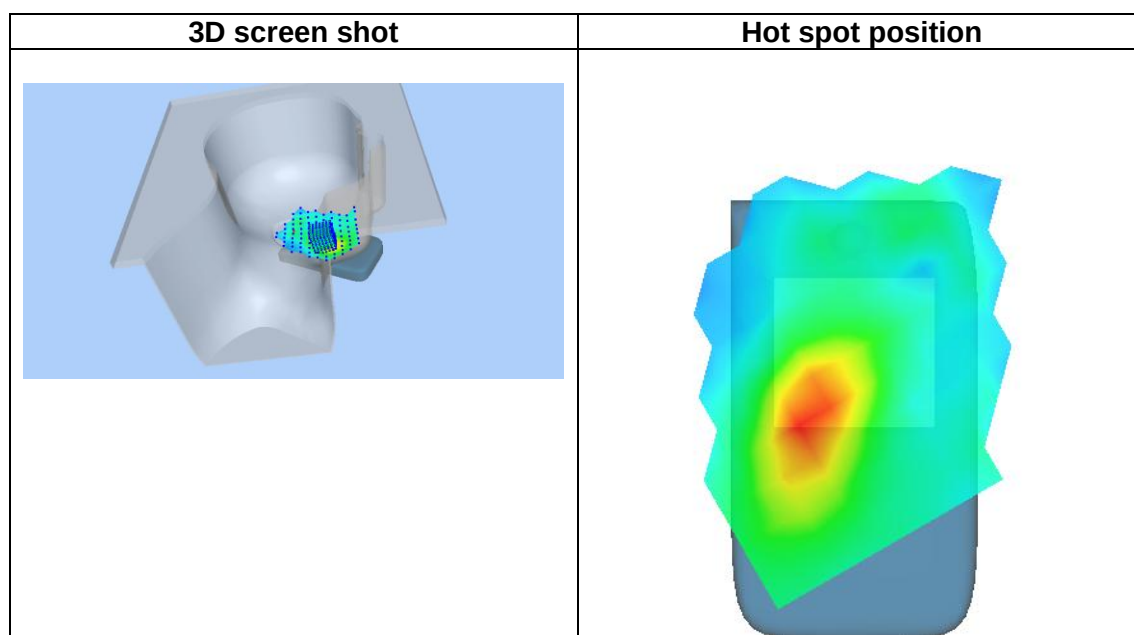
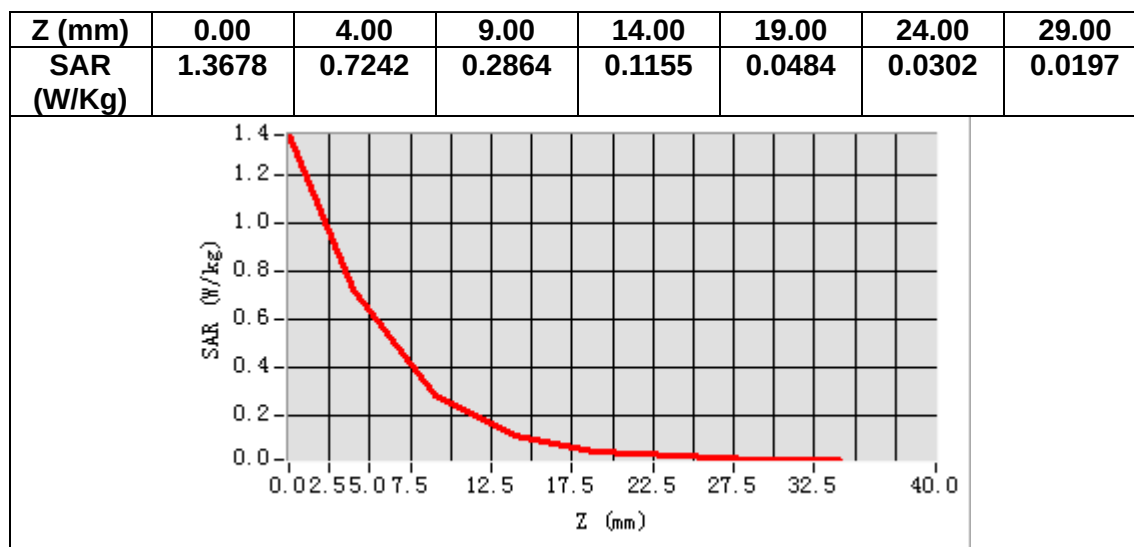
VOLUME SAR



Maximum location: X=-48.00, Y=-45.00

SAR Peak: 1.37 W/kg

SAR 10g (W/Kg)	0.304280
SAR 1g (W/Kg)	0.698930



MEASUREMENT 24

Date of measurement: 22/9/2022

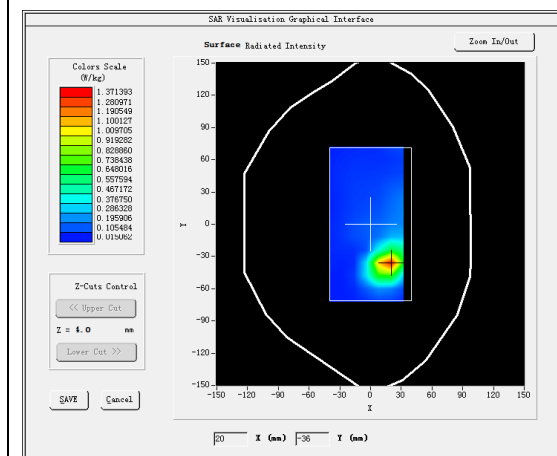
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 7</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>1.87</u>

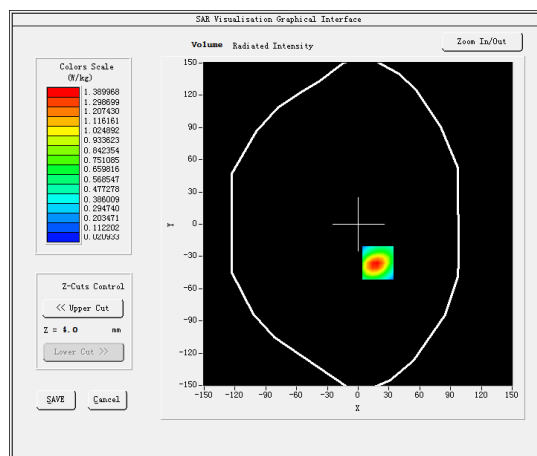
B. SAR Measurement Results

Frequency (MHz)	2535.000000
Relative permittivity (real part)	38.021152
Relative permittivity (imaginary part)	13.111235
Conductivity (S/m)	1.846499
Variation (%)	-0.780000

SURFACE SAR



VOLUME SAR



Maximum location: X=19.00, Y=-36.00

SAR Peak: 2.27 W/kg

SAR 10g (W/Kg)	0.620794
SAR 1g (W/Kg)	1.103786

