

FCC SAR EVALUATION REPORT

**In accordance with the requirements of
FCC 47 CFR Part 2(2.1093) and
IEEE Std 1528-2013**

Product Name : Smart phone

Brand Name : OSCAL

Model Name : PILOT 1

Family Model : N/A

Report No. : S24101000505001

FCC ID : 2A7DX-PILOT1

Prepared for

DOKE COMMUNICATION (HK) LIMITED

19H MAXGRAND PLAZA NO 3 TAI YAU STREET SAN PO KONG KL

Prepared by

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TEST RESULT CERTIFICATION**Applicant's name** DOKE COMMUNICATION (HK) LIMITEDAddress..... 19H MAXGRAND PLAZA NO 3 TAI YAU STREET SAN PO
KONG KL**Manufacturer's Name** . Shenzhen DOKE Electronic Co., LtdAddress..... 801, Building3, 7th Industrial Zone, Yulv Community, Yutang Road, Guangming
District, Shenzhen, China.**Product description**

Product name Smart phone

Brand Name OSCAL

Model and/or type
reference PILOT 1

Family Model N/A

FCC 47 CFR Part 2(2.1093)

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). 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 S241010005005

Date of Test

Date (s) of performance of tests... Oct. 14, 2024~ Oct. 26, 2024

Date of Issue Dec.5, 2024

Test Result **Pass**Prepared By : Owen Xiao
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※ ※ Revision History ※ ※

REV.	DESCRIPTION	ISSUED DATE	REMARK
Rev.1.0	Initial Test Report Release	Dec.5, 2024	Owen Xiao

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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 PILOT 1 are as follows.

RF Exposure Conditions		Equipment Class -Highest Reported SAR (W/kg)				Max. Reported SAR (W/kg)
		PCE	DTS	NII	DSS	
1-g Head		0.341	0.291	0.981	0.167	0.981
1-g Body-Worn (Separation distance of 10mm)		0.846	0.215	0.315	0.084	0.846
1-g Hotspot (Separation distance of 10mm)		0.846	0.215	0.315	0.084	
Max Simultaneous Tx	Head	1.322	0.632	1.322	0.508	1.322
	Body-Worn	1.071	1.061	1.161	0.930	1.161
	Hotspot	1.071	1.061	1.161	0.930	

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 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	Smart phone
Brand Name	OSCAL
Model Name	PILOT 1
Family Model	N/A
Model Difference	N/A
FCC ID	2A7DX-PILOT1
Device Phase	Identical Prototype
Exposure Category	General population / Uncontrolled environment
Antenna Type	PIFA Antenna
Battery Information	DC 3.85V, 15000mAh, 57.75Wh
HW Version	HCT-M515MB-A3
SW Version	PILOT_1_NEU_M515_V1.0
Device Operating Configurations	
Supporting Mode(s)	GSM850/1900,WCDMABand2/4/5,LTEBand2/4/5/7/12/17/41/66, WLAN 2.4G/5G, Bluetooth, NFC
Test Modulation	GSM(GMSK/8PSK), WCDMA(QPSK), LTE(QPSK/16QAM), WLAN(DSSS/OFDM), Bluetooth(GFSK, $\pi/4$ -DQPSK, 8DPSK), NFC (ASK)

Device Class	B		
Operating Frequency Range(s)	Band	Tx (MHz)	Rx (MHz)
	GSM 850	824-849	869-894
	GSM 1900	1850-1910	1930-1990
	WCDMA Band 2	1850-1910	1930-1990
	WCDMA Band 4	1710-1755	2110-2155
	WCDMA Band 5	824-849	869-894
	LTE Band 2	1850-1910	1930-1990
	LTE Band 4	1710-1755	2110-2155
	LTE Band 5	824-849	869-894
	LTE Band 7	2500-2570	2620-2690
	LTE Band 12	699-716	729-746
	LTE Band 17	704-716	734-746
	LTE Band 41	2469-2690	
	LTE Band 66	1710-1780	2110-2200
	WLAN 2.4G	2412-2462	
	WLAN 5.2G	5180-5240	
	WLAN 5.8G	5745-5825	
	NFC	13.56-13.56	
	Bluetooth	2402-2480	
GPRS Multislot Class(12)	Max Number of Timeslots in Uplink		4
	Max Number of Timeslots in Downlink		4
	Max Total Timeslot		5
EGPRS Multislot Class(12)	Max Number of Timeslots in Uplink		4
	Max Number of Timeslots in Downlink		4
	Max Total Timeslot		5
Power Class	4, tested with power level 5(GSM 850)		
	1, tested with power level 0(GSM 1900)		
	3, tested with power control "all 1"(WCDMA Band 2)		
	3, tested with power control "all 1"(WCDMA Band 4)		
	3, tested with power control "all 1"(WCDMA Band 5)		
	3, tested with power control all Max.(LTE Band 2)		
	3, tested with power control all Max.(LTE Band 4)		
	3, tested with power control all Max.(LTE Band 5)		
	3, tested with power control all Max.(LTE Band 7)		
	3, tested with power control all Max.(LTE Band 12)		
	3, tested with power control all Max.(LTE Band 17)		
	3, tested with power control all Max.(LTE Band 41)		
	3, tested with power control all Max.(LTE Band 66)		

1.4. Test specification(s)

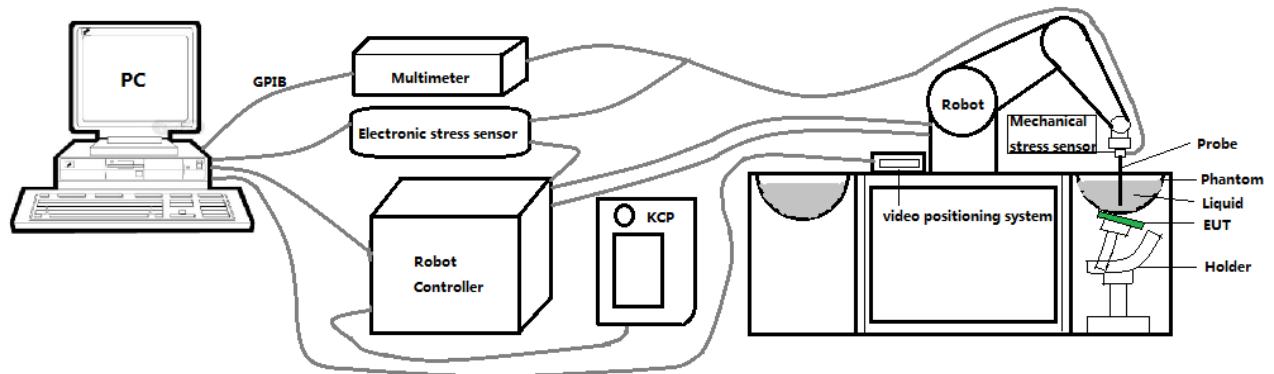
FCC 47 CFR Part 2(2.1093)
IEEE Std 1528-2013
KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04
KDB 865664 D02 RF Exposure Reporting v01r02
KDB 447498 D01 General RF Exposure Guidance v06
KDB 248227 D01 802.11 Wi-Fi SAR v02r02
KDB 941225 D01 3G SAR Procedures v03r01
KDB 941225 D05 SAR for LTE Devices v01r02
KDB 941225 D06 Hotspot SAR v02r01
KDB 648474 D04 Handset SAR v01r03

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 3423-EPGO-426 with following specifications is used



- Dynamic range: 0.01-100 W/kg
- Tip Diameter : 2.5 mm
- Distance between probe tip and sensor center: 1 mm
- Distance between sensor center and the inner phantom surface: 2 mm (repeatability better than ± 1 mm).
- Probe linearity: ± 0.06 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

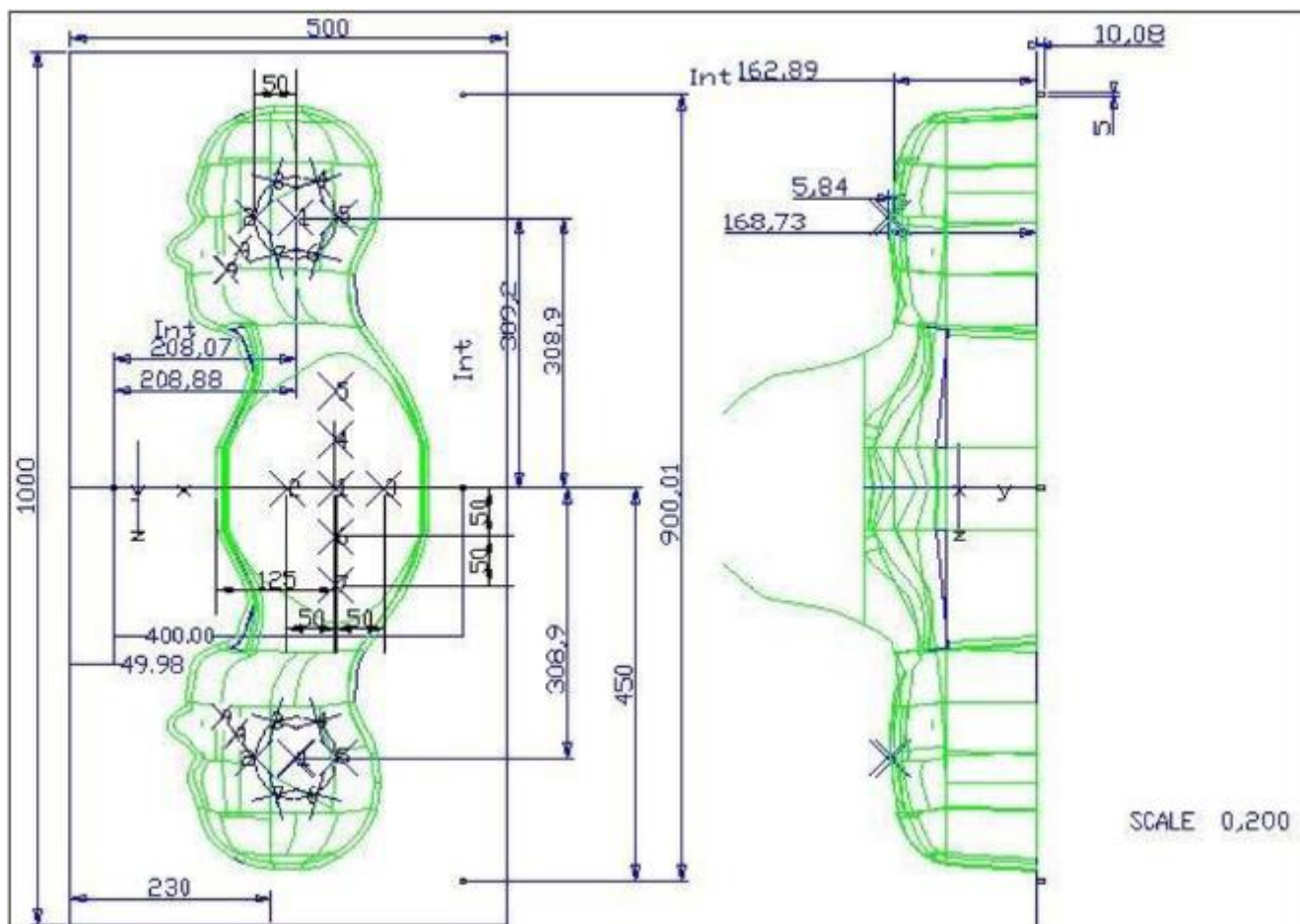
Photo of SAM phantom SN 16/15 SAM119



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 $\pm$ 0.2 mm	27 liters	Length:1000 mm Width:500 mm Height:200 mm	Gelcoat with fiberglass	3.4	0.02

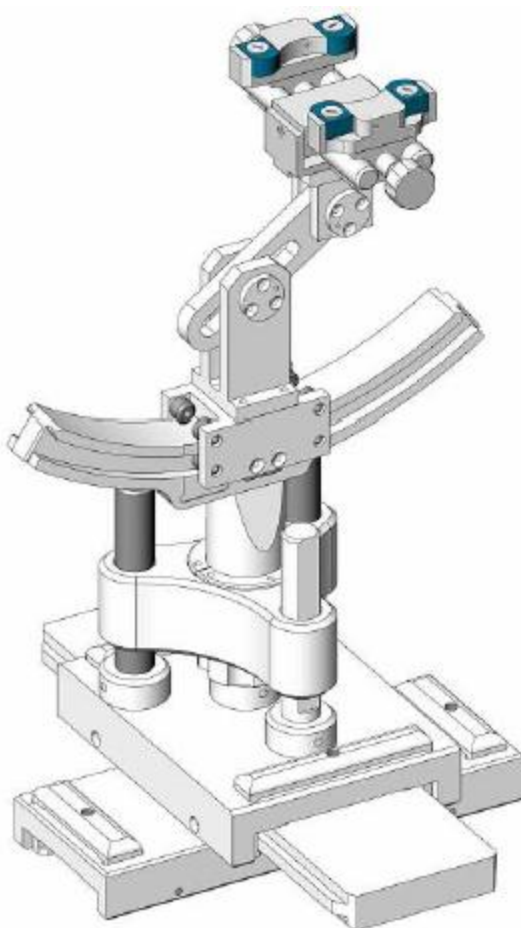


Serial Number	Left Head(mm)		Right Head(mm)		Flat Part(mm)	
SN 16/15 SAM119	2	2.02	2	2.08	1	2.09
	3	2.05	3	2.06	2	2.06
	4	2.07	4	2.07	3	2.08
	5	2.08	5	2.08	4	2.10
	6	2.05	6	2.07	5	2.10
	7	2.05	7	2.05	6	2.07
	8	2.07	8	2.06	7	2.07
	9	2.08	9	2.06	-	-

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

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	4024-EPGO-442	Oct.4.2024	Oct.3.2025
☒	MVG	750 MHz Dipole	SID750	SN 03/15 DIP 0G750-355	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	835 MHz Dipole	SID835	SN 03/15 DIP 0G835-347	Feb. 21, 2024	Feb. 20, 2027
☐	MVG	900 MHz Dipole	SID900	SN 03/15 DIP 0G900-348	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	1800 MHz Dipole	SID1800	SN 03/15 DIP 1G800-349	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	1900 MHz Dipole	SID1900	SN 03/15 DIP 1G900-350	Feb. 21, 2024	Feb. 20, 2027
☐	MVG	2000 MHz Dipole	SID2000	SN 03/15 DIP 2G000-351	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	2450 MHz Dipole	SID2450	SN 03/15 DIP 2G450-352	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	2600 MHz Dipole	SID2600	SN 03/15 DIP 2G600-356	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	5000 MHz Dipole	SWG5500	SN 13/14 WGA 33	Feb. 21, 2024	Feb. 20, 2027
☒	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	105747	Apr. 26, 2024	Apr. 25, 2025
☒	R&S	Wideband radio communication tester	CMW500	103917	Apr. 26, 2024	Apr. 25, 2025
☒	HP	Network	8753D	3410J01136	Apr. 26,	Apr. 25,

		Analyzer			2024	2025
☒	Agilent	MXG Vector Signal Generator	N5182A	MY47070317	Apr. 25, 2024	Apr. 24, 2025
☒	Agilent	Power meter	E4419B	MY45102538	Apr. 25, 2024	Apr. 24, 2025
☒	Agilent	Power sensor	E9301A	MY41495644	Apr. 25, 2024	Apr. 24, 2025
☒	Agilent	Power sensor	E9301A	US39212148	Apr. 25, 2024	Apr. 24, 2025
☒	MCLI/USA	Directional Coupler	CB11-20	0D2L51502	Apr. 26, 2024	Apr. 25, 2027
☒	N/A	Thermometer	N/A	LES-085	Mar. 27, 2023	Mar. 26, 2026
☒	MVG	SAM Phantom	SSM2	SN 16/15 SAM119	NCR	NCR
☒	MVG	Device Holder	SMPPD	SN 16/15 MSH100	NCR	NCR

Measurement Software

Manufacturer	Software Name	Software Version
SATIMO	OpenSAR	V4_02_31

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 using to determinate 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 form 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 define 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 if the dielectric parameters are within the tolerances of the specified target values. The measured conductivity and relative permittivity should be within $\pm 5\%$ of the target values.

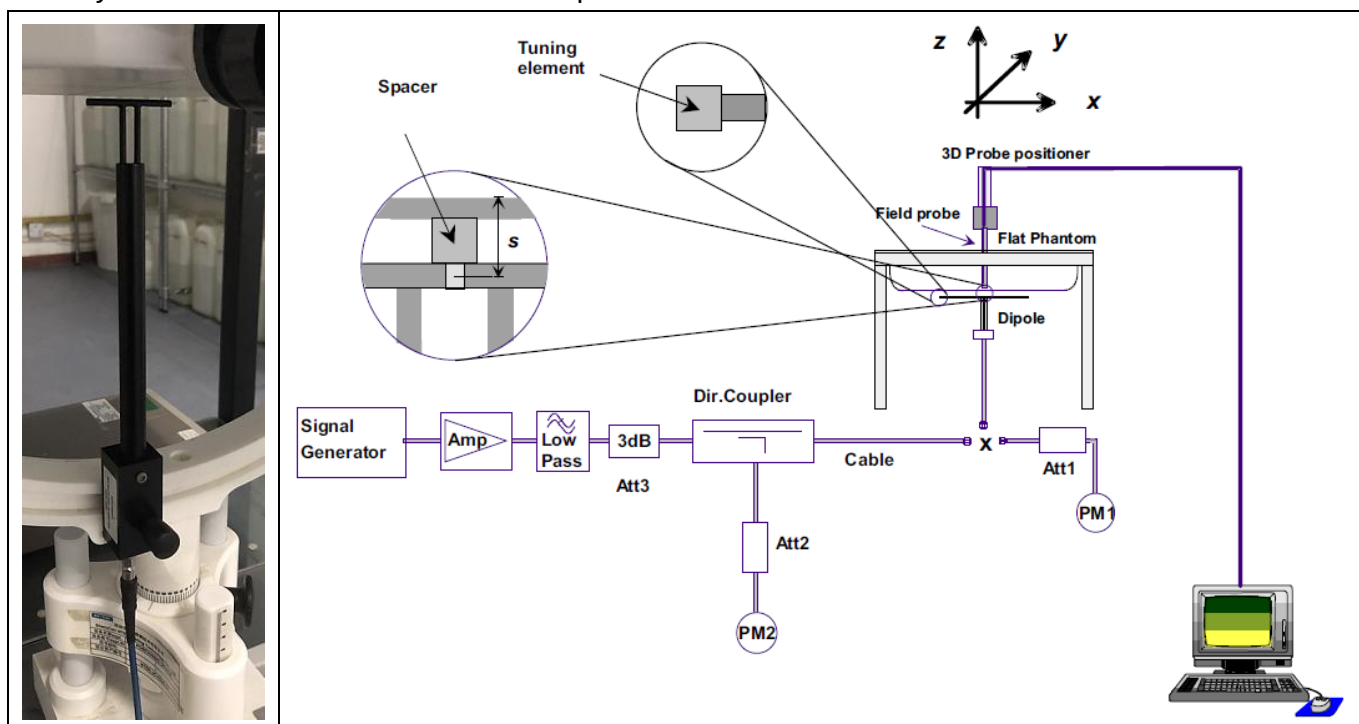
Tissue Type	Measured Frequency (MHz)	Target Tissue		Measured Tissue		Liquid Temp.	Test Date
		$\epsilon_r (\pm 5\%)$	σ (S/m) ($\pm 5\%$)	ϵ_r	σ (S/m)		
Head 750	750	41.96 (39.86~44.06)	0.89 (0.85~0.93)	40.54	0.90	21.9 °C	Oct. 14, 2024
Head 850	835	41.50 (39.43~43.58)	0.90 (0.86~0.95)	41.96	0.91	21.2 °C	Oct. 15, 2024
Head 1800	1800	40.00 (38.00~42.00)	1.40 (1.33~1.47)	39.26	1.37	21.2 °C	Oct. 22, 2024
Head 1900	1900	40.00 (38.00~42.00)	1.40 (1.33~1.47)	38.57	1.46	21.7 °C	Oct. 16, 2024
Head 2450	2450	39.20 (37.24~41.16)	1.80 (1.71~1.89)	39.84	1.79	21.0 °C	Oct. 23, 2024
Head 2600	2600	39.01 (37.06~40.96)	1.96 (1.86~2.06)	38.91	2.02	21.1 °C	Oct. 17, 2024
Head 5200	5200	36.00 (34.20~37.80)	4.66 (4.43~4.89)	36.62	4.52	21.5 °C	Oct. 24, 2024
Head 5800	5800	35.30 (33.54~37.07)	5.27 (5.01~5.53)	35.47	5.14	21.9 °C	Oct. 26, 2024

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. 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) ($\pm 10\%$)		Input Power	Measured SAR		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)	1-g (W/Kg)	10-g (W/Kg)		
750MHz	8.60 (7.74~9.46)	5.78 (5.20~6.36)	18dBm	0.545	0.367	8.64	5.82	21.9 °C	Oct. 14, 2024
835MHz	9.40 (8.46~10.34)	6.28 (5.65~6.91)	18dBm	0.574	0.376	9.10	5.96	21.2 °C	Oct. 15, 2024
1800MHz	37.06 (33.35~40.77)	20.01 (18.01~22.01)	18dBm	2.386	1.238	37.81	19.62	21.2 °C	Oct. 22, 2024
1900MHz	39.69 (35.72~43.66)	20.92 (18.83~23.01)	18dBm	2.527	1.243	40.05	19.70	21.7 °C	Oct. 16, 2024
2450MHz	50.05 (45.05~55.06)	23.80 (21.42~26.18)	18dBm	2.966	1.414	47.01	22.41	21.0 °C	Oct. 23, 2024
2600MHz	54.16 (48.74~59.58)	24.85 (22.37~27.34)	18dBm	3.452	1.557	54.71	24.68	21.1 °C	Oct. 17, 2024
5200MHz	162.59 (146.33~178.85)	56.21 (50.59~61.83)	20dBm	15.218	5.962	152.18	59.62	21.5 °C	Oct. 24, 2024
5800MHz	182.20 (163.98~200.42)	61.32 (55.19~67.45)	20dBm	17.515	5.570	175.15	55.70	21.9 °C	Oct. 26, 2024

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 (~ 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.

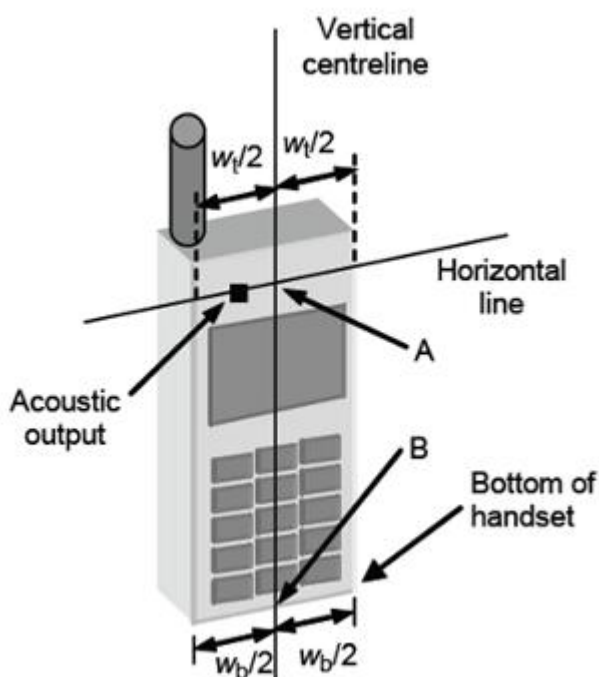


Fig 6.2.1 Handset vertical and horizontal reference lines—"fixed case"

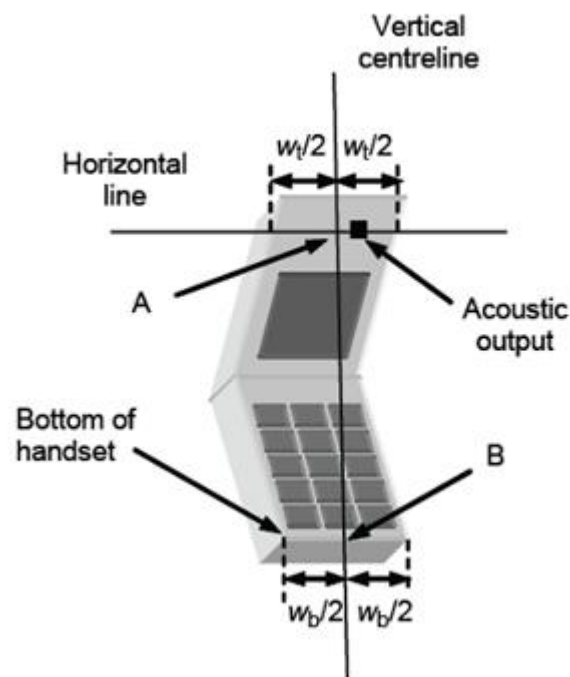


Fig 6.2.2 Handset vertical and horizontal reference lines—"clam-shell case"

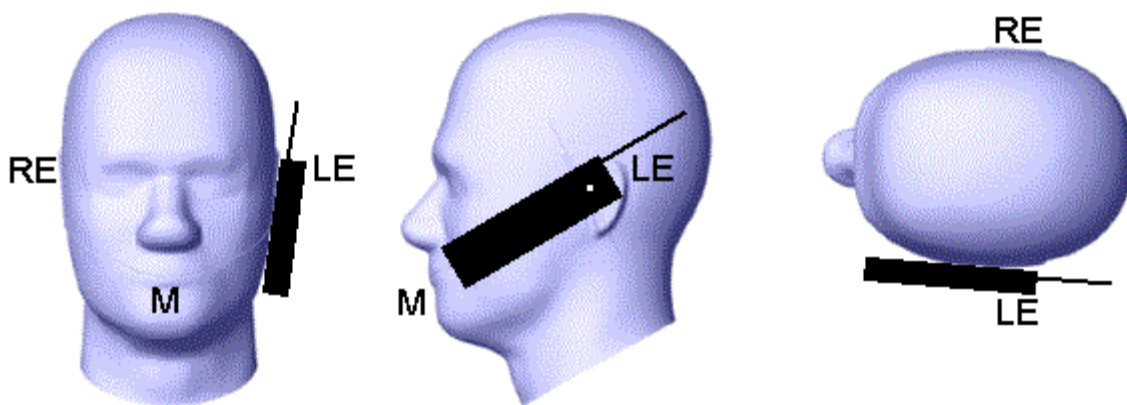


Fig 6.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

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.

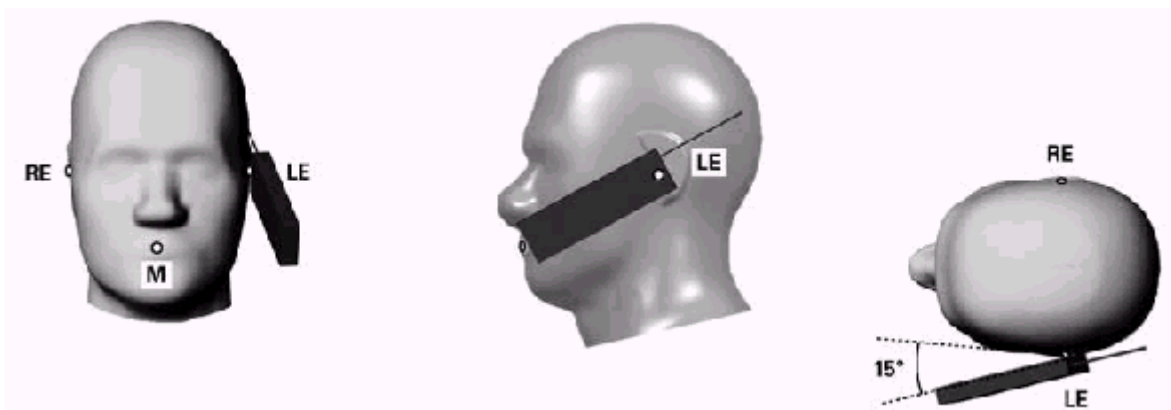


Figure 6.3.1 – Tilt position of the wireless device on the left side of SAM

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 headset attached to the handset.
2. Accessories for body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest

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

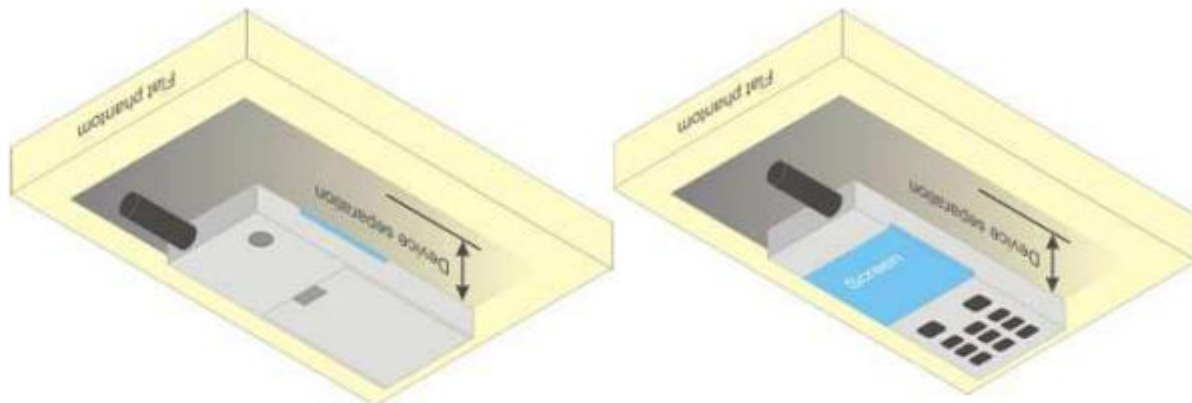


Figure 6.4.1 – Test positions for body-worn devices

6.5. Wireless Router Devices

Some battery-operated handsets have the capability to transmit and receive user through simultaneous transmission of WLAN simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06 where SAR test considerations for handsets ($L \times W \geq 9 \text{ cm} \times 5 \text{ cm}$) are based on a composite test separation distance of 10mm from the front, back and edges of the device containing transmitting antennas within 2.5cm of their edges, determined from general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WLAN transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions due to the limitations of the SAR assessment probes. Therefore, SAR must be evaluated for each frequency transmission and mode separately and spatially summed with the WLAN transmitter according to FCC KDB Publication 447498 D01 publication procedures. The “Portable Hotspot” feature on the handset was NOT activated during SAR assessments, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal at a time.

7. RF Output Power

7.1. GSM Conducted Power

Band GSM850	Burst-Averaged output Power (dBm)				Frame-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	128	189	251	Tune-up (dBm)	128	189	251
Frequency (MHz)		824.2	836.4	848.8		824.2	836.4	848.8
GSM (GMSK)	32.50	32.36	32.40	32.33	23.47	23.33	23.37	23.30
GPRS(GMSK,1 Tx slot)	32.50	32.36	32.40	32.33	23.47	23.33	23.37	23.30
GPRS(GMSK,2 Tx slot)	32.00	31.67	31.70	31.66	25.98	25.65	25.68	25.64
GPRS(GMSK,3 Tx slot)	30.50	30.03	30.06	30.01	26.24	25.77	25.80	25.75
GPRS(GMSK,4 Tx slot)	29.50	29.04	29.02	28.99	26.49	26.03	26.01	25.98
EGPRS(8PSK,1 Tx slot)	27.50	26.79	27.02	26.62	18.47	17.76	17.99	17.59
EGPRS(8PSK,2 Tx slot)	26.00	25.63	25.91	25.77	19.98	19.61	19.89	19.75
EGPRS(8PSK,3 Tx slot)	24.00	23.85	23.63	23.80	19.74	19.59	19.37	19.54
EGPRS(8PSK,4 Tx slot)	23.00	22.66	22.49	22.76	19.99	19.65	19.48	19.75
Band GSM1900	Burst-Averaged output Power (dBm)				Frame-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	512	661	810	Tune-up (dBm)	512	661	810
Frequency (MHz)		1850.2	1880	1909.8		1850.2	1880	1909.8
GSM (GMSK)	29.50	28.91	28.97	29.04	20.47	19.88	19.94	20.01
GPRS(GMSK,1 Tx slot)	29.50	28.88	28.94	29.01	20.47	19.85	19.91	19.98
GPRS(GMSK,2 Tx slot)	28.50	28.08	28.15	28.24	22.48	22.06	22.13	22.22
GPRS(GMSK,3 Tx slot)	27.00	26.35	26.40	26.53	22.74	22.09	22.14	22.27
GPRS(GMSK,4 Tx slot)	25.50	25.31	25.38	25.49	22.49	22.30	22.37	22.48
EGPRS(8PSK,1 Tx slot)	26.00	25.13	25.51	25.64	16.97	16.10	16.48	16.61
EGPRS(8PSK,2 Tx slot)	25.00	24.37	24.34	24.77	18.98	18.35	18.32	18.75
EGPRS(8PSK,3 Tx slot)	23.00	22.68	22.48	22.74	18.74	18.42	18.22	18.48
EGPRS(8PSK,4 Tx slot)	22.00	21.59	21.32	21.66	18.99	18.58	18.31	18.65

7.2. WCDMA Conducted Power

WCDMA Band 2	Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	9262	9400	9538
Frequency (MHz)		1852.4	1880	1907.6
RMC12.2K	23.00	22.47	22.50	22.46
HSDPA Sub 1	22.00	21.54	21.61	21.49
HSDPA Sub 2	21.50	20.97	21.07	20.91

HSDPA Sub 3	20.00	20.00	19.79	19.87
HSDPA Sub 4	20.50	20.14	19.75	19.66
HSUPA Sub 1	21.50	20.06	21.33	21.28
HSUPA Sub 2	21.50	21.44	21.44	21.25
HSUPA Sub 3	20.50	19.89	20.09	20.21
HSUPA Sub 4	22.00	21.46	21.53	21.42
HSUPA Sub 5	21.00	19.96	20.89	20.70
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	23.00	22.61	22.61	22.36
HSDPA Sub 1	22.00	21.63	21.6	21.41
HSDPA Sub 2	21.50	21.22	21.2	20.97
HSDPA Sub 3	20.50	20.23	20.09	19.62
HSDPA Sub 4	20.50	20.13	20.17	19.59
HSUPA Sub 1	21.50	20.43	21.43	21.2
HSUPA Sub 2	21.50	19.93	21.48	21.3
HSUPA Sub 3	20.50	19.58	20.25	19.87
HSUPA Sub 4	22.00	21.64	21.61	21.39
HSUPA Sub 5	21.00	20.03	20.78	20.77
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	23.50	23.19	23.14	23.19
HSDPA Sub 1	22.50	22.21	22.20	22.22
HSDPA Sub 2	22.00	21.69	21.62	21.88
HSDPA Sub 3	21.00	20.62	20.43	20.51
HSDPA Sub 4	21.00	20.43	20.70	20.67
HSUPA Sub 1	22.50	20.72	22.04	22.00
HSUPA Sub 2	22.50	22.07	22.12	22.13
HSUPA Sub 3	21.50	20.48	21.05	20.87
HSUPA Sub 4	22.50	22.22	22.19	22.25
HSUPA Sub 5	22.00	20.58	21.51	21.61

7.3. LTE Conducted Power

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18607/1850.7	18900/1880	19193/1909.3
LTE Band 2	1.4MHz	QPSK	1	0	24.00	23.32	22.89	23.03
			1	2	24.00	23.51	23.01	23.15
			1	5	24.00	23.34	22.88	23.03
			3	0	23.50	23.45	22.97	23.11
			3	1	23.50	23.49	23.02	23.15
			3	2	23.50	23.46	22.98	23.10
			6	0	22.50	22.46	21.97	22.12
		16QAM	1	0	23.00	22.58	22.14	22.29
			1	2	23.00	22.78	22.37	22.46
			1	5	23.00	22.65	22.16	22.25
			3	0	22.50	22.41	22.00	22.07
			3	1	22.50	22.47	22.08	22.17
			3	2	22.50	22.46	21.93	22.04
			6	0	22.00	21.55	21.13	21.21
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18615/1851.5	18900/1880	19185/1908.5
LTE Band 2	3MHz	QPSK	1	0	24.00	23.50	23.00	23.10
			1	7	24.00	23.52	23.02	23.14
			1	14	24.00	23.37	23.03	23.15
			8	0	22.50	22.49	22.00	22.09
			8	4	22.50	22.48	22.05	22.19
			8	7	22.50	22.44	22.01	22.17
			15	0	22.50	22.44	22.01	22.15
		16QAM	1	0	23.00	22.72	22.24	22.41
			1	7	23.00	22.81	22.33	22.36
			1	14	23.00	22.64	22.33	22.42
			8	0	22.00	21.62	21.15	21.17
			8	4	22.00	21.60	21.17	21.28
			8	7	22.00	21.58	21.17	21.23
			15	0	22.00	21.51	21.07	21.16
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	5MHz	QPSK	1	0	23.50	23.29	22.81	22.66

Band 2			1	12	23.50	23.24	22.75	22.54
			1	24	23.50	23.15	22.78	22.52
			12	0	22.50	22.38	21.87	21.52
			12	6	22.50	22.40	22.00	21.84
			12	11	22.50	22.32	21.93	21.92
			25	0	22.50	22.36	21.92	21.71
		16QAM	1	0	23.00	22.65	22.14	21.61
			1	12	23.00	22.67	22.10	21.76
			1	24	23.00	22.46	21.87	21.82
			12	0	21.50	21.42	20.68	20.49
			12	6	21.50	21.43	21.04	20.85
			12	11	21.50	21.37	20.97	20.78
			25	0	21.50	21.41	20.99	20.79
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	23.00	22.89	22.37	22.29
			1	24	23.00	22.87	22.61	22.57
			1	49	23.00	22.59	22.38	22.55
			25	0	22.00	21.88	21.46	21.56
			25	12	22.00	21.83	21.51	21.51
			25	24	22.00	21.72	21.54	21.59
			50	0	22.00	21.83	21.54	21.58
		16QAM	1	0	22.50	22.20	21.68	21.58
			1	24	22.50	22.23	21.95	21.92
			1	49	22.50	21.79	21.64	21.90
			25	0	21.00	20.96	20.52	20.63
			25	12	21.00	20.89	20.61	20.56
			25	24	21.00	20.80	20.65	20.65
			50	0	21.00	20.89	20.62	20.62
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 2	15MHz	QPSK	1	0	23.00	22.75	22.21	22.18
			1	37	23.00	22.71	22.43	22.40
			1	74	23.00	22.30	22.18	22.40
			36	0	22.00	21.82	21.39	21.45
			36	18	22.00	21.71	21.46	21.41
			36	37	22.00	21.55	21.46	21.45
			75	0	22.00	21.67	21.41	21.44

		16QAM	1	0	22.50	22.05	21.56	21.42
			1	37	22.50	22.11	21.70	21.70
			1	74	22.50	21.53	21.47	21.76
			36	0	21.00	20.81	20.41	20.45
			36	18	21.00	20.74	20.48	20.44
			36	37	21.00	20.58	20.50	20.48
			75	0	21.00	20.73	20.47	20.48
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	23.00	22.60	22.04	22.07
			1	49	23.00	22.70	22.55	22.42
			1	99	23.00	22.00	21.98	22.22
			50	0	22.00	21.81	21.39	21.52
			50	24	22.00	21.62	21.42	21.37
			50	49	22.00	21.40	21.50	21.31
			100	0	22.00	21.59	21.45	21.39
		16QAM	1	0	22.00	21.90	21.34	21.31
			1	49	22.00	21.89	21.85	21.72
			1	99	22.00	21.25	21.35	21.55
			50	0	21.00	20.85	20.47	20.54
			50	24	21.00	20.69	20.50	20.43
			50	49	21.00	20.47	20.57	20.36
			100	0	21.00	20.65	20.50	20.45

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	23.50	22.92	22.53	22.53
			1	2	23.50	23.05	22.62	22.65
			1	5	23.50	22.94	22.51	22.54
			3	0	23.50	23.04	22.62	22.61
			3	1	23.50	23.02	22.61	22.66
			3	2	23.50	23.03	22.63	22.60
			6	0	22.00	21.99	21.62	21.65
		16QAM	1	0	22.50	22.13	21.73	21.90
			1	2	22.50	22.32	21.96	21.96
			1	5	22.50	22.23	21.75	21.88
			3	0	22.50	21.98	21.58	21.69
			3	1	22.50	22.04	21.64	21.67

			3	2	22.50	21.97	21.55	21.67
			6	0	21.50	21.11	20.75	20.73
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	23.50	23.06	22.66	22.68
			1	7	23.50	23.09	22.66	22.65
			1	14	23.50	23.07	22.65	22.63
			8	0	22.50	22.06	21.68	21.70
			8	4	22.50	22.10	21.73	21.75
			8	7	22.50	22.06	21.67	21.71
			15	0	22.50	22.07	21.70	21.71
		16QAM	1	0	22.50	22.24	21.89	22.02
			1	7	22.50	22.31	21.86	21.91
			1	14	22.50	22.28	21.95	21.96
			8	0	21.50	21.13	20.76	20.80
			8	4	21.50	21.17	20.76	20.84
			8	7	21.50	21.14	20.72	20.81
			15	0	21.50	21.07	20.71	20.72
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	23.00	22.83	22.47	22.46
			1	12	23.00	23.00	22.58	22.58
			1	24	23.00	22.86	22.43	22.46
			12	0	22.50	21.98	21.57	21.63
			12	6	22.50	22.03	21.65	21.68
			12	11	22.50	21.99	21.59	21.65
			25	0	22.00	21.96	21.60	21.66
		16QAM	1	0	22.50	22.09	21.81	21.76
			1	12	22.50	22.17	21.82	21.97
			1	24	22.50	22.12	21.81	21.79
			12	0	21.00	20.97	20.58	20.60
			12	6	21.00	20.99	20.65	20.70
			12	11	21.00	20.98	20.60	20.65
			25	0	21.00	21.00	20.60	20.64
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20000/1715	20175/1732.5	20350/1750
LTE	10MHz	QPSK	1	0	23.50	22.93	22.55	22.54

Band 4			1	24	23.50	23.11	22.67	22.72
			1	49	23.50	22.86	22.51	22.53
			25	0	22.50	22.03	21.68	21.74
			25	12	22.50	22.03	21.68	21.72
			25	24	22.50	22.09	21.63	21.69
			50	0	22.50	22.04	21.66	21.71
		16QAM	1	0	22.50	22.25	21.86	21.89
			1	24	22.50	22.35	21.94	21.97
			1	49	22.50	22.21	21.83	21.80
			25	0	21.50	21.05	20.69	20.76
			25	12	21.50	21.06	20.69	20.72
			25	24	21.50	21.09	20.63	20.70
			50	0	21.50	21.04	20.66	20.73
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	23.00	22.77	22.49	22.33
			1	37	23.00	22.92	22.60	22.61
			1	74	23.00	22.54	22.37	22.39
			36	0	22.00	21.94	21.59	21.68
			36	18	22.00	21.94	21.63	21.68
			36	37	22.00	21.87	21.57	21.61
			75	0	22.00	21.89	21.58	21.63
		16QAM	1	0	22.50	21.95	21.71	21.71
			1	37	22.50	22.25	21.80	21.99
			1	74	22.50	21.93	21.70	21.81
			36	0	21.00	20.90	20.56	20.64
			36	18	21.00	20.92	20.60	20.67
			36	37	21.00	20.84	20.57	20.62
			75	0	21.00	20.88	20.58	20.64
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	23.00	22.60	22.38	22.13
			1	49	23.00	22.89	22.66	22.67
			1	99	23.00	22.30	22.25	22.23
			50	0	22.00	21.83	21.57	21.73
			50	24	22.00	21.86	21.63	21.68
			50	49	22.00	21.82	21.50	21.56
			100	0	22.00	21.82	21.53	21.65

		16QAM	1	0	22.50	21.93	21.71	21.51
			1	49	22.50	22.21	21.94	21.92
			1	99	22.50	21.64	21.48	21.52
			50	0	21.00	20.85	20.56	20.73
			50	24	21.00	20.87	20.63	20.68
			50	49	21.00	20.82	20.51	20.58
			100	0	21.00	20.83	20.52	20.64

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	23.00	22.00	22.46	22.08
			1	2	23.00	22.17	22.59	22.25
			1	5	23.00	22.08	22.47	22.16
			3	0	23.00	22.13	22.54	22.21
			3	1	23.00	22.17	22.56	22.23
			3	2	23.00	22.13	22.55	22.19
			6	0	22.00	21.12	21.52	21.18
		16QAM	1	0	22.00	21.39	21.76	21.27
			1	2	22.00	21.52	21.94	21.53
			1	5	22.00	21.30	21.61	21.36
			3	0	22.00	21.08	21.58	21.16
			3	1	22.00	21.11	21.61	21.26
			3	2	22.00	21.12	21.58	21.21
			6	0	21.00	20.24	20.68	20.33
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	23.00	22.15	22.58	22.28
			1	7	23.00	22.19	22.60	22.24
			1	14	23.00	22.21	22.56	22.23
			8	0	22.00	21.15	21.57	21.27
			8	4	22.00	21.21	21.61	21.30
			8	7	22.00	21.17	21.57	21.25
			15	0	22.00	21.15	21.56	21.26
		16QAM	1	0	22.00	21.39	21.84	21.60
			1	7	22.00	21.46	21.80	21.51
			1	14	22.00	21.48	21.90	21.56
			8	0	21.00	20.26	20.70	20.39
			8	4	21.00	20.33	20.74	20.42

			8	7	21.00	20.28	20.68	20.36
			15	0	21.00	20.23	20.61	20.32
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	23.00	21.94	22.39	22.15
			1	12	23.00	22.16	22.52	22.18
			1	24	23.00	22.20	22.34	22.05
			12	0	22.00	21.12	21.46	21.26
			12	6	22.00	21.17	21.53	21.21
			12	11	22.00	21.07	21.47	21.06
			25	0	21.50	21.09	21.46	21.16
		16QAM	1	0	22.00	21.14	21.61	21.49
			1	12	22.00	21.37	21.81	21.51
			1	24	22.00	21.44	21.68	21.39
			12	0	21.00	20.16	20.49	20.29
			12	6	21.00	20.23	20.56	20.28
			12	11	21.00	20.11	20.53	20.10
			25	0	21.00	20.16	20.54	20.25
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 5	10MHz	QPSK	1	0	23.00	22.04	22.39	22.41
			1	24	23.00	22.46	22.65	22.32
			1	49	23.00	22.43	22.32	22.07
			25	0	22.00	21.31	21.52	21.42
			25	12	22.00	21.31	21.56	21.31
			25	24	22.00	21.33	21.54	21.10
			50	0	22.00	21.31	21.53	21.28
		16QAM	1	0	22.00	21.28	21.61	21.65
			1	24	22.00	21.70	21.87	21.61
			1	49	22.00	21.65	21.67	21.39
			25	0	21.00	20.38	20.57	20.48
			25	12	21.00	20.37	20.61	20.39
			25	24	21.00	20.38	20.62	20.16
			50	0	21.00	20.36	20.58	20.33

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	24.00	23.54	23.38	23.76
			1	12	24.00	23.68	23.59	23.23
			1	24	24.00	23.56	23.26	22.62
			12	0	24.00	22.71	23.64	23.44
			12	6	24.00	22.78	22.62	23.18
			12	11	24.00	22.68	22.57	22.90
			25	0	23.50	22.75	22.59	23.13
		16QAM	1	0	24.00	22.81	22.62	23.55
			1	12	24.00	22.88	22.77	23.16
			1	24	24.00	22.74	22.76	22.65
			12	0	23.50	21.67	21.55	23.25
			12	6	23.50	21.76	21.59	22.12
			12	11	23.50	21.63	21.52	22.01
			25	0	22.50	21.69	21.54	22.09
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	24.50	23.67	23.48	23.77
			1	24	24.50	23.87	23.27	23.46
			1	49	24.50	24.24	22.88	22.44
			25	0	24.50	22.88	23.52	24.09
			25	12	24.50	22.88	22.71	23.12
			25	24	24.50	22.93	22.69	23.00
			50	0	24.00	22.89	22.75	23.56
		16QAM	1	0	23.50	22.85	22.71	22.89
			1	24	23.50	23.12	22.86	23.23
			1	49	23.50	22.90	22.80	22.55
			25	0	24.00	21.83	21.77	23.96
			25	12	24.00	21.87	21.68	22.07
			25	24	24.00	21.86	21.65	22.00
			50	0	22.50	21.86	21.73	22.04
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	24.00	23.57	23.33	23.47
			1	37	24.00	23.83	23.21	23.85
			1	74	24.00	23.65	22.87	22.38
			36	0	24.50	22.83	23.67	24.46
			36	18	24.50	22.89	22.71	22.94
			36	37	24.50	22.94	22.69	22.92

		16QAM	75	0	23.00	22.88	22.69	22.82
			1	0	23.50	22.68	22.43	22.69
			1	37	23.50	23.04	22.86	23.08
			1	74	23.50	22.77	22.74	22.55
			36	0	24.50	21.76	21.60	24.32
			36	18	24.50	21.80	21.65	21.86
			36	37	24.50	21.84	21.62	21.84
			75	0	22.00	21.82	21.64	21.76
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	24.00	23.41	23.24	23.38
			1	49	24.00	23.92	23.18	23.82
			1	99	24.00	23.36	22.92	22.39
			50	0	23.00	22.84	22.76	22.31
			50	24	23.00	22.93	22.71	22.84
			50	49	23.00	22.93	22.65	22.73
			100	0	23.00	22.86	22.75	22.67
		16QAM	1	0	23.50	22.69	22.43	22.54
			1	49	23.50	23.19	22.88	23.05
			1	99	23.50	22.53	22.52	22.47
			50	0	22.50	21.76	21.81	22.20
			50	24	22.50	21.88	21.67	21.77
			50	49	22.50	21.89	21.60	21.69
			100	0	22.00	21.82	21.70	21.61

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	23.00	22.72	22.60	22.61
			1	2	23.00	22.87	22.70	22.74
			1	5	23.00	22.71	22.53	22.59
			3	0	23.00	22.83	22.68	22.70
			3	1	23.00	22.86	22.68	22.74
			3	2	23.00	22.83	22.65	22.67
			6	0	22.00	21.81	21.66	21.71
		16QAM	1	0	22.50	21.98	21.85	21.78
			1	2	22.50	22.06	21.92	21.96
			1	5	22.50	21.91	21.77	21.87
			3	0	22.00	21.74	21.63	21.64

			3	1	22.00	21.80	21.66	21.69
			3	2	22.00	21.73	21.64	21.64
			6	0	21.00	20.83	20.71	20.79
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	23.00	22.82	22.73	22.73
			1	7	23.00	22.83	22.69	22.71
			1	14	23.00	22.84	22.66	22.72
			8	0	22.00	21.84	21.71	21.76
			8	4	22.00	21.87	21.74	21.81
			8	7	22.00	21.80	21.67	21.77
			15	0	22.00	21.84	21.68	21.76
		16QAM	1	0	22.50	22.12	22.02	21.92
			1	7	22.50	22.11	21.94	22.02
			1	14	22.50	22.13	21.84	21.98
			8	0	21.00	20.84	20.73	20.81
			8	4	21.00	20.92	20.76	20.86
			8	7	21.00	20.84	20.73	20.81
			15	0	21.00	20.84	20.67	20.74
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	23.00	22.66	22.58	22.49
			1	12	23.00	22.76	22.59	22.62
			1	24	23.00	22.56	22.45	22.54
			12	0	22.00	21.79	21.56	21.68
			12	6	22.00	21.80	21.67	21.71
			12	11	22.00	21.69	21.57	21.62
			25	0	22.00	21.72	21.57	21.70
		16QAM	1	0	22.50	21.91	21.85	21.70
			1	12	22.50	22.01	21.85	21.94
			1	24	22.50	21.77	21.56	21.83
			12	0	21.00	20.74	20.51	20.64
			12	6	21.00	20.77	20.62	20.68
			12	11	21.00	20.65	20.55	20.58
			25	0	21.00	20.69	20.53	20.66
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	23.00	22.72	22.67	22.62
			1	24	23.00	22.81	22.71	22.69
			1	49	23.00	22.49	22.53	22.58
			25	0	22.00	21.85	21.64	21.67
			25	12	22.00	21.76	21.71	21.66
			25	24	22.00	21.80	21.57	21.57
			50	0	22.00	21.84	21.62	21.68
		16QAM	1	0	22.50	21.95	21.94	21.92
			1	24	22.50	22.07	21.91	21.95
			1	49	22.50	21.77	21.81	21.83
			25	0	21.00	20.85	20.65	20.68
			25	12	21.00	20.74	20.68	20.64
			25	24	21.00	20.78	20.53	20.54
			50	0	21.00	20.82	20.59	20.63

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	23.00	22.87	22.78	22.77
			1	12	23.00	22.95	22.88	22.92
			1	24	23.00	22.75	22.75	22.80
			12	0	22.00	21.93	21.89	21.97
			12	6	22.00	21.99	21.92	21.97
			12	11	22.00	21.94	21.79	21.92
			25	0	22.00	21.92	21.86	21.94
		16QAM	1	0	22.50	22.10	21.99	22.02
			1	12	22.50	22.21	22.06	22.21
			1	24	22.50	22.03	21.92	22.08
			12	0	21.00	20.86	20.85	20.91
			12	6	21.00	20.94	20.90	20.93
			12	11	21.00	20.88	20.76	20.89
			25	0	21.00	20.91	20.85	20.93
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	23.00	22.91	22.95	22.93
			1	24	23.00	22.99	22.98	23.00
			1	49	23.00	22.83	22.84	22.89
			25	0	22.00	21.88	21.93	21.98
			25	12	22.00	21.95	21.98	21.97

			25	24	22.00	21.77	21.78	21.86
			50	0	22.00	21.84	21.89	21.94
		16QAM	1	0	22.50	22.19	22.19	22.23
			1	24	22.50	22.22	22.12	22.19
			1	49	22.50	22.04	22.03	22.08
			25	0	21.00	20.87	20.90	20.96
			25	12	21.00	20.93	20.95	20.95
			25	24	21.00	20.77	20.77	20.86
			50	0	21.00	20.83	20.87	20.94

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)				
			RB Size	RB Offset		40065 /2537.5	40353 /2566	40640 /2595	40928 /2624	41215 /2652.5
LTE Band 41	5MHz	QPSK	1	0	22.50	21.81	21.75	21.98	21.63	22.14
			1	12	22.50	21.75	21.43	22.20	21.75	22.24
			1	24	22.50	21.58	21.25	22.18	21.64	22.11
			12	0	22.00	20.79	21.43	21.11	21.52	21.19
			12	6	22.00	20.76	21.33	21.19	21.52	21.18
			12	11	22.00	20.67	21.35	21.14	21.63	21.13
			25	0	21.50	20.73	21.11	21.13	20.87	21.15
		16QAM	1	0	21.50	20.96	20.88	21.12	20.63	21.31
			1	12	21.50	20.92	20.71	21.37	21.06	21.44
			1	24	21.50	20.73	21.15	21.32	21.22	21.30
			12	0	20.50	19.76	20.14	20.13	20.21	20.18
			12	6	20.50	19.77	20.21	20.20	20.06	20.18
			12	11	20.50	19.66	20.10	20.17	20.08	20.10
			25	0	20.50	19.73	20.36	20.17	20.11	20.16
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)				
			RB Size	RB Offset		40090 /2540	40365 /2567.5	40640 /2593	40915 /2622.5	41190 /2650
LTE Band 41	10MHz	QPSK	1	0	22.50	21.87	22.11	21.90	21.63	22.25
			1	24	22.50	21.87	22.06	22.36	21.42	22.38
			1	49	22.50	21.63	22.11	22.26	21.37	22.17
			25	0	22.00	20.84	21.05	21.19	21.51	21.36
			25	12	22.00	20.76	21.36	21.25	21.41	21.26
			25	24	22.00	20.72	21.25	21.28	21.13	21.15
			50	0	21.50	20.80	21.04	21.25	21.14	21.26

		16QAM	1	0	22.00	21.05	21.16	21.07	21.13	21.49
			1	24	22.00	21.00	21.36	21.52	21.54	21.56
			1	49	22.00	20.80	21.63	21.44	21.62	21.38
			25	0	21.50	19.84	20.51	20.23	21.15	20.37
			25	12	21.50	19.75	20.76	20.27	21.22	20.28
			25	24	21.50	19.70	20.20	20.31	21.13	20.17
			50	0	20.50	19.81	19.87	20.30	20.21	20.31
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)				
			RB Size	RB Offset		40115 /2542.5	40378 /2569	40640 /2593	40903 /2621	41165 /2647.5
LTE Band 41	15MHz	QPSK	1	0	22.50	21.69	21.42	21.60	21.24	21.94
			1	37	22.50	21.65	21.65	22.21	21.63	22.11
			1	74	22.50	21.56	22.01	22.09	22.49	21.89
			36	0	21.50	20.70	21.13	20.99	21.44	21.16
			36	18	21.50	20.65	21.24	21.15	21.32	21.10
			36	37	21.50	20.65	21.13	21.24	21.04	20.99
			75	0	21.50	20.67	21.21	21.10	20.32	21.07
		16QAM	1	0	21.50	20.84	21.16	20.77	21.12	21.17
			1	37	21.50	20.83	21.24	21.38	21.22	21.34
			1	74	21.50	20.72	21.32	21.24	21.06	21.08
			36	0	21.00	19.64	20.63	19.99	20.42	20.12
			36	18	21.00	19.57	20.05	20.14	20.32	20.05
			36	37	21.00	19.59	20.14	20.21	19.57	19.94
			75	0	20.50	19.64	19.82	20.13	19.47	20.08
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)				
			RB Size	RB Offset		40140 /2545	40390 /2570	40640 /2593	40890 /2620	41140 /2645
LTE Band 41	20MHz	QPSK	1	0	22.50	21.55	21.24	21.39	21.33	21.78
			1	49	22.50	21.76	21.42	22.30	22.21	22.23
			1	99	22.50	21.38	21.33	21.81	21.02	21.71
			50	0	21.50	20.75	21.12	21.10	21.19	21.25
			50	24	21.50	20.66	21.03	21.15	21.21	21.13
			50	49	21.50	20.72	21.42	21.24	21.28	20.96
			100	0	21.50	20.73	21.06	21.13	20.62	21.12
		16QAM	1	0	21.50	20.72	20.36	20.55	20.41	20.99
			1	49	21.50	20.93	20.51	21.47	20.14	21.46
			1	99	21.50	20.55	21.32	20.99	20.63	20.92
			50	0	20.50	19.76	20.06	20.15	19.58	20.28

			50	24	20.50	19.66	20.13	20.20	19.62	20.15
			50	49	20.50	19.75	20.11	20.29	19.21	19.98
			100	0	20.50	19.72	19.39	20.20	20.14	20.14

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	24.00	23.55	23.19	23.23
			1	2	24.00	23.67	23.28	23.39
			1	5	24.00	23.56	23.20	23.28
			3	0	24.00	23.66	23.28	23.36
			3	1	24.00	23.68	23.30	23.38
			3	2	24.00	23.69	23.28	23.39
			6	0	23.00	22.70	22.35	22.15
		16QAM	1	0	23.50	22.82	22.44	22.31
			1	2	23.50	23.03	22.63	22.41
			1	5	23.50	22.90	22.54	22.23
			3	0	23.00	22.68	22.33	21.96
			3	1	23.00	22.76	22.37	22.00
			3	2	23.00	22.75	22.29	21.97
			6	0	22.00	21.79	21.47	21.06
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	23.50	23.21	22.81	22.83
			1	7	23.50	23.24	22.80	22.86
			1	14	23.50	23.26	22.83	22.91
			8	0	22.50	22.23	21.89	21.93
			8	4	22.50	22.27	21.99	22.00
			8	7	22.50	22.26	21.91	21.97
			15	0	22.50	22.25	21.90	21.94
		16QAM	1	0	23.00	22.55	22.16	22.14
			1	7	23.00	22.48	22.16	22.11
			1	14	23.00	22.58	22.19	22.12
			8	0	21.50	21.32	20.96	21.01
			8	4	21.50	21.37	21.04	21.08
			8	7	21.50	21.36	20.99	21.06
			15	0	21.50	21.27	20.91	20.98
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB	RB		131997/1712.5	132322/1745	132647/1777.5

			Size	Offset				
LTE Band 66	5MHz	QPSK	1	0	23.50	23.04	22.65	22.57
			1	12	23.50	23.18	22.73	22.78
			1	24	23.50	23.06	22.62	22.72
			12	0	22.50	22.13	21.82	21.85
			12	6	22.50	22.24	21.89	21.89
			12	11	22.50	22.15	21.77	21.80
			25	0	22.50	22.16	21.80	21.84
		16QAM	1	0	22.50	22.31	21.98	21.84
			1	12	22.50	22.43	22.04	22.06
			1	24	22.50	22.28	21.96	21.94
			12	0	21.50	21.14	20.82	20.85
			12	6	21.50	21.25	20.88	20.89
			12	11	21.50	21.14	20.78	20.82
			25	0	21.50	21.18	20.84	20.84
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	23.50	23.10	22.69	22.65
			1	24	23.50	23.34	22.90	22.84
			1	49	23.50	23.06	22.68	22.79
			25	0	22.50	22.22	21.95	21.89
			25	12	22.50	22.25	21.89	21.83
			25	24	22.50	22.24	21.80	21.75
			50	0	22.50	22.25	21.90	21.84
		16QAM	1	0	23.00	22.46	22.05	21.99
			1	24	23.00	22.67	22.19	22.11
			1	49	23.00	22.41	22.06	22.07
			25	0	21.50	21.23	20.95	20.93
			25	12	21.50	21.27	20.91	20.85
			25	24	21.50	21.28	20.84	20.78
			50	0	21.50	21.28	20.93	20.85
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	23.50	22.96	22.59	22.45
			1	37	23.50	23.16	22.74	22.63
			1	74	23.50	22.78	22.51	22.59

			36	0	22.50	22.16	21.90	21.62
			36	18	22.50	22.13	21.84	21.70
			36	37	22.50	22.08	21.76	21.60
			75	0	22.50	22.09	21.80	21.60
		16QAM	1	0	22.50	22.27	21.83	21.84
			1	37	22.50	22.37	21.99	21.82
			1	74	22.50	22.06	21.80	21.85
			36	0	21.50	21.12	20.90	20.60
			36	18	21.50	21.14	20.83	20.70
			36	37	21.50	21.06	20.73	20.62
			75	0	21.50	21.11	20.82	20.61
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	23.50	22.82	22.40	22.25
			1	49	23.50	23.15	22.78	22.70
			1	99	23.50	22.53	22.37	22.42
			50	0	22.50	22.06	21.94	21.60
			50	24	22.50	22.06	21.86	21.68
			50	49	22.50	22.06	21.72	21.50
			100	0	22.50	22.03	21.87	21.55
		16QAM	1	0	22.50	22.12	21.80	21.63
			1	49	22.50	22.46	22.13	21.95
			1	99	22.50	21.73	21.61	21.80
			50	0	21.50	21.09	20.96	20.60
			50	24	21.50	21.06	20.87	20.72
			50	49	21.50	21.06	20.73	20.53
			100	0	21.50	21.03	20.85	20.55

7.4. WLAN & Bluetooth Output Power

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11b	1	2412	16.50	16.09
	6	2437	16.50	16.25
	11	2462	16.50	16.22
802.11g	1	2412	14.50	14.01
	6	2437	14.50	14.25
	11	2462	14.50	14.16
802.11n HT20	1	2412	14.50	14.08
	6	2437	14.50	14.02
	11	2462	14.50	14.04
802.11n HT40	3	2422	14.50	14.40
	6	2437	14.50	14.24
	9	2452	14.50	14.04

NOTE: Power measurement results of WLAN 2.4G.

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11a	36	5180	12.50	12.14
	40	5200	12.50	12.01
	48	5240	12.50	12.25
802.11n HT20	36	5180	12.00	11.71
	40	5200	12.00	11.28
	48	5240	12.00	11.54
802.11n HT40	38	5190	11.50	11.37
	46	5230	11.50	11.45
802.11ac VHT20	36	5180	12.00	11.48
	40	5200	12.00	11.49
	48	5240	12.00	11.63
802.11ac VHT40	38	5190	12.00	11.38
	46	5230	12.00	11.53
802.11ac VHT80	42	5210	11.50	11.41

NOTE: Power measurement results of WLAN 5.2G.

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11a	149	5745	12.00	11.68
	157	5785	12.00	11.76
	165	5825	12.00	11.69
802.11n HT20	149	5745	12.00	11.60
	157	5785	12.00	11.61
	165	5825	12.00	11.54
802.11n HT40	151	5755	12.00	11.49
	159	5795	12.00	11.52
802.11ac VHT20	149	5745	12.00	11.48
	157	5785	12.00	11.61
	165	5825	12.00	11.65
802.11ac VHT40	151	5755	12.00	11.28
	159	5795	12.00	11.81
802.11ac VHT80	155	5775	12.00	11.73

NOTE: Power measurement results of WLAN 5.8G.

BR+EDR	Output Power (dBm)				
	Data Rates	Tune-up (dBm)	Channel		
			0CH	39CH	78CH
	1M	6	5.57	5.42	4.66
	2M	5	4.46	4.86	4.18
	3M	6	4.50	5.02	4.47

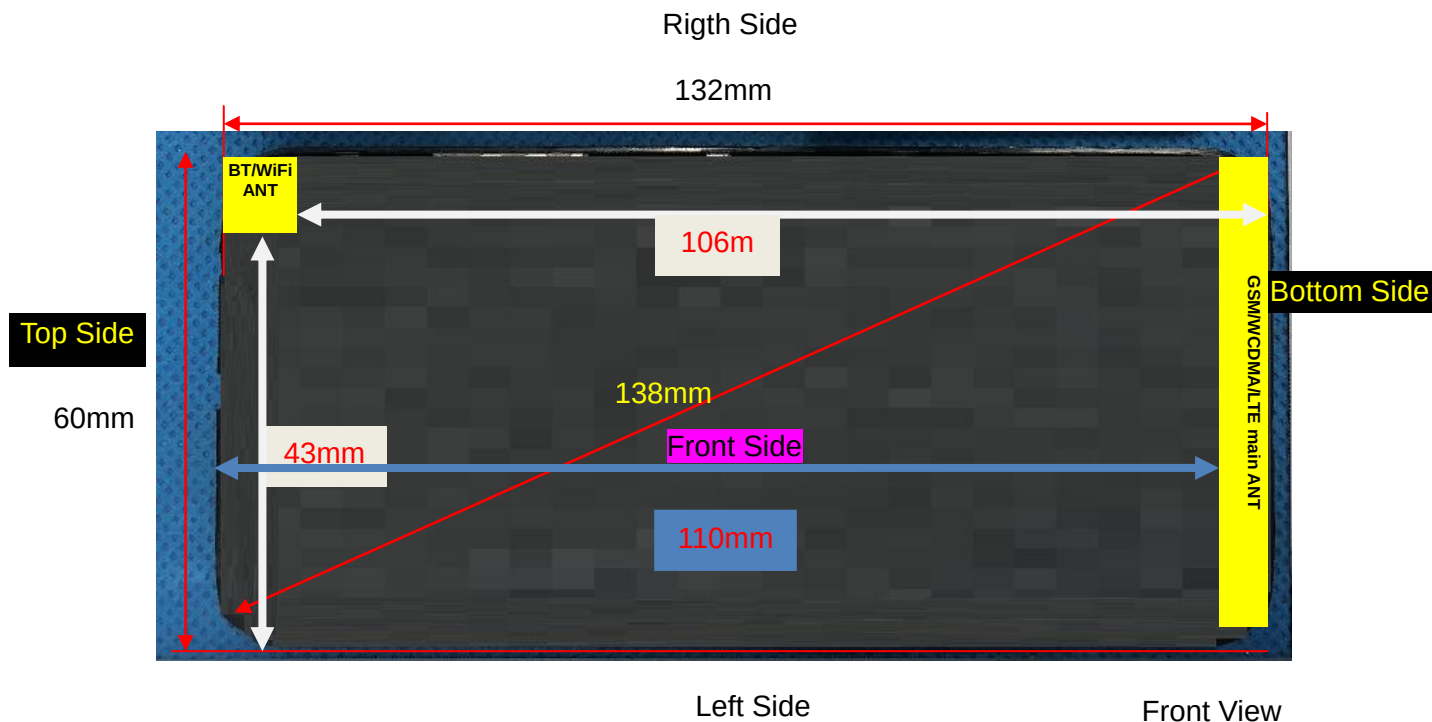
BLE	Output Power (dBm)				
	Data Rates	Tune-up (dBm)	Channe		
			0CH	19CH	39CH
	1M	-1	-1.97	-1.49	-1.16
	2M	-1	-1.98	-1.51	-1.2

NOTE: Power measurement results of Bluetooth.

7.5. NFC

The power is too low, so SAR testing is not necessary.

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	NO	Yes	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:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f_{(\text{GHz})}}] \leq 3.0$ 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
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Bluetooth	6.00	3.981	5	2.480	2.502	3	Yes
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NOTE: Standalone SAR test exclusion for Bluetooth.

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

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

When the minimum test separation distance is $< 5 \text{ mm}$, a distance of 5 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	6.00	3.981	5	2.48	7.5	0.167
Bluetooth	Body	6.00	3.981	10	2.48	7.5	0.084
Bluetooth	Hotspot	6.00	3.981	10	2.48	7.5	0.084

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($\pm 5\%$)	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)	0.305	0.236	2.04	29.02	29.50	0.341	2024/10/15	1#
Left Tilt 15 Degree	189/836.4	GPRS(GMSK 4TS)	0.161	0.123	2.59	29.02	29.50	0.180	2024/10/15	
Right Cheek	189/836.4	GPRS(GMSK 4TS)	0.279	0.209	-2.00	29.02	29.50	0.312	2024/10/15	
Right Tilt 15 Degree	189/836.4	GPRS(GMSK 4TS)	0.145	0.112	-1.59	29.02	29.50	0.162	2024/10/15	

NOTE: Head SAR test results of GSM850.

Test Position	Test	Test Mode	SAR Value	Power	Conducted	Tune-up	Scaled	Date	Plot
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of Body-Worn with 10mm	channel /Freq.		(W/kg)		Drift (±5%)	power (dBm)	power (dBm)	SAR 1g (W/Kg)		
			1g	10g						
Front Side	189/836.4	GPRS(GMSK 4TS)	0.436	0.286	-3.39	29.02	29.50	0.487	2024/10/15	
Back Side	189/836.4	GPRS(GMSK 4TS)	0.657	0.454	-0.94	29.02	29.50	0.734	2024/10/15	2#

NOTE: Body-Worn SAR test results of GSM850

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	189/836.4	GPRS(GMSK 4TS)	0.436	0.286	-3.39	29.02	29.50	0.487	2024/10/15	
Back Side	189/836.4	GPRS(GMSK 4TS)	0.657	0.454	-0.94	29.02	29.50	0.734	2024/10/15	2#
Left Side	189/836.4	GPRS(GMSK 4TS)	0.210	0.144	2.28	29.02	29.50	0.235	2024/10/15	
Right Side	189/836.4	GPRS(GMSK 4TS)	0.258	0.178	-2.17	29.02	29.50	0.288	2024/10/15	
Bottom Side	189/836.4	GPRS(GMSK 4TS)	0.147	0.099	-3.37	29.02	29.50	0.164	2024/10/15	

NOTE: Hotspot SAR test results of GSM850

10.1.2. SAR measurement Result of GSM1900

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
Left Cheek	661/1880	GPRS(GMSK 3TS)	0.171	0.101	3.35	26.40	27.00	0.196	2024/10/16	3#
Left Tilt 15 Degree	661/1880	GPRS(GMSK 3TS)	0.094	0.056	-3.11	26.40	27.00	0.108	2024/10/16	
Right Cheek	661/1880	GPRS(GMSK 3TS)	0.152	0.088	-1.86	26.40	27.00	0.175	2024/10/16	
Right Tilt 15	661/1880	GPRS(GMSK 3TS)	0.068	0.039	-3.06	26.40	27.00	0.078	2024/10/16	

Degree

NOTE: Head SAR test results of GSM1900

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	661/1880	GPRS(GMSK 3TS)	0.294	0.147	3.68	26.40	27.00	0.338	2024/10/16	
Back Side	661/1880	GPRS(GMSK 3TS)	0.561	0.293	-0.13	26.40	27.00	0.644	2024/10/16	4#

NOTE: Body-Worn SAR test results of GSM1900

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	661/1880	GPRS(GMSK 3TS)	0.294	0.147	3.68	26.40	27.00	0.338	2024/10/16	
Back Side	661/1880	GPRS(GMSK 3TS)	0.561	0.293	-0.13	26.40	27.00	0.644	2024/10/16	4#
Left Side	661/1880	GPRS(GMSK 3TS)	0.239	0.125	0.58	26.40	27.00	0.274	2024/10/16	
Right Side	661/1880	GPRS(GMSK 3TS)	0.029	0.015	-3.11	26.40	27.00	0.033	2024/10/16	
Bottom Side	661/1880	GPRS(GMSK 3TS)	0.551	0.282	-0.18	26.40	27.00	0.633	2024/10/16	

NOTE: Hotspot SAR test results of GSM1900

10.1.3. SAR measurement Result of WCDMA Band 2

Test Position of Head	Test channel /Freq	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
Left Cheek	9400/1880	RMC12.2K	0.021	0.015	2.84	22.50	23.00	0.024	2024/10/16	5#
Left Tilt 15 Degree	9400/1880	RMC12.2K	0.011	0.009	1.65	22.50	23.00	0.012	2024/10/16	

Right Cheek	9400/1880	RMC12.2K	0.020	0.018	2.25	22.50	23.00	0.022	2024/10/16	
Right Tilt 15 Degree	9400/1880	RMC12.2K	0.011	0.009	-1.65	22.50	23.00	0.012	2024/10/16	

NOTE: Head SAR test results of WCDMA Band 2

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	9400/1880	RMC12.2K	0.049	0.028	-3.18	22.50	23.00	0.055	2024/10/16	
Back Side	9400/1880	RMC12.2K	0.076	0.044	0.22	22.50	23.00	0.085	2024/10/16	6#

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducte d power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	9400/1880	RMC12.2K	0.049	0.028	-3.18	22.50	23.00	0.055	2024/10/1 6	
Back Side	9400/1880	RMC12.2K	0.076	0.044	0.22	22.50	23.00	0.085	2024/10/1 6	6#
Left Side	9400/1880	RMC12.2K	0.034	0.019	-1.20	22.50	23.00	0.038	2024/10/1 6	
Right Side	9400/1880	RMC12.2K	0.004	0.002	0.85	22.50	23.00	0.004	2024/10/1 6	
Bottom Side	9400/1880	RMC12.2K	0.072	0.042	3.19	22.50	23.00	0.081	2024/10/1 6	

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	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
Left Cheek	1413/1732.6	RMC12.2K	0.107	0.069	0.53	22.61	23.00	0.117	2024/10/22	7#
Left Tilt	1413/1732.6	RMC12.2K	0.062	0.040	-3.27	22.61	23.00	0.068	2024/10/22	

15 Degree										
Right Cheek	1413/1732.6	RMC12.2K	0.101	0.065	-2.46	22.61	23.00	0.110	2024/10/22	
Right Tilt 15 Degree	1413/1732.6	RMC12.2K	0.052	0.032	-3.47	22.61	23.00	0.057	2024/10/22	

NOTE: Head SAR test results of WCDMA Band 4

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	1413/1732.6	RMC12.2K	0.279	0.146	3.33	22.61	23.00	0.305	2024/10/22	
Back Side	1413/1732.6	RMC12.2K	0.539	0.293	-0.14	22.61	23.00	0.590	2024/10/22	8#

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	1413/1732.6	RMC12.2K	0.279	0.146	3.33	22.61	23.00	0.305	2024/10/22	
Back Side	1413/1732.6	RMC12.2K	0.539	0.293	-0.14	22.61	23.00	0.590	2024/10/22	8#
Left Side	1413/1732.6	RMC12.2K	0.231	0.119	0.73	22.61	23.00	0.253	2024/10/22	
Right Side	1413/1732.6	RMC12.2K	0.028	0.015	-2.36	22.61	23.00	0.031	2024/10/22	
Bottom Side	1413/1732.6	RMC12.2K	0.532	0.289	-1.23	22.61	23.00	0.582	2024/10/22	

NOTE: Hotspot SAR test results of WCDMA Band 4

10.1.5. SAR measurement Result of WCDMA Band 5

Test Position of Head	Test channel /Freq	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g	Date	Plot
			1-g	10-g						

								(W/Kg)		
Left Cheek	4182/836.4	RMC12.2K	0.212	0.164	4.48	23.14	23.50	0.230	2024/10/15	9#
Left Tilt 15 Degree	4182/836.4	RMC12.2K	0.119	0.092	2.67	23.14	23.50	0.129	2024/10/15	
Right Cheek	4182/836.4	RMC12.2K	0.201	0.148	-0.24	23.14	23.50	0.218	2024/10/15	
Right Tilt 15 Degree	4182/836.4	RMC12.2K	0.099	0.076	-2.94	23.14	23.50	0.108	2024/10/15	

NOTE: Head SAR test results of WCDMA Band 5

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	4182/836.4	RMC12.2K	0.338	0.240	-2.38	23.14	23.50	0.367	2024/10/15	
Back Side	4182/836.4	RMC12.2K	0.505	0.366	-1.56	23.14	23.50	0.549	2024/10/15	10#

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	4182/836.4	RMC12.2K	0.338	0.240	-2.38	23.14	23.50	0.367	2024/10/15	
Back Side	4182/836.4	RMC12.2K	0.505	0.366	-1.56	23.14	23.50	0.549	2024/10/15	10#
Left Side	4182/836.4	RMC12.2K	0.156	0.113	-2.57	23.14	23.50	0.169	2024/10/15	
Right Side	4182/836.4	RMC12.2K	0.194	0.135	3.88	23.14	23.50	0.211	2024/10/15	
Bottom Side	4182/836.4	RMC12.2K	0.114	0.083	-3.98	23.14	23.50	0.124	2024/10/15	

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.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducte d power (dBm)	Tune-up power (dBm)	Scaled SAR 1g	Date	Plot
			1-g	10-g						

								(W/Kg)		
1RB										
Left Cheek	18900/1880	20M QPSK(1,49)	0.269	0.157	-2.32	22.55	23.00	0.298	2024/10/16	17#
Left Tilt 15 Degree	18900/1880	20M QPSK(1,49)	0.148	0.085	2.13	22.55	23.00	0.164	2024/10/16	
Right Cheek	18900/1880	20M QPSK(1,49)	0.241	0.139	1.78	22.55	23.00	0.267	2024/10/16	
Right Tilt 15 Degree	18900/1880	20M QPSK(1,49)	0.119	0.067	-1.56	22.55	23.00	0.132	2024/10/16	
50%RB										
Left Cheek	18900/1880	20M QPSK(50,49)	0.243	0.148	-2.28	21.50	22.00	0.273	2024/10/16	
Left Tilt 15 Degree	18900/1880	20M QPSK(50,49)	0.134	0.08	-3.42	21.50	22.00	0.150	2024/10/16	
Right Cheek	18900/1880	20M QPSK(50,49)	0.223	0.122	1.7	21.50	22.00	0.250	2024/10/16	
Right Tilt 15 Degree	18900/1880	20M QPSK(50,49)	0.108	0.06	2.44	21.50	22.00	0.121	2024/10/16	

NOTE: Head SAR test results of LTE Band 2

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
1RB										
Front Side	18900/1880	20M QPSK(1,49)	0.392	0.198	-0.01	22.55	23.00	0.435	2024/10/16	
Back Side	18900/1880	20M QPSK(1,49)	0.763	0.397	-0.41	22.55	23.00	0.846	2024/10/16	18#
50%RB										
Front Side	18900/1880	20M QPSK(50,49)	0.341	0.188	2.04	21.50	22.00	0.383	2024/10/16	
Back Side	18900/1880	20M QPSK(50,49)	0.713	0.344	0.61	21.50	22.00	0.800	2024/10/16	

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	18900/1880	20M QPSK(1,49)	0.392	0.198	-0.01	22.55	23.00	0.435	2024/10/16	
Back Side	18900/1880	20M QPSK(1,49)	0.763	0.397	-0.41	22.55	23.00	0.846	2024/10/16	18#
Left Side	18900/1880	20M QPSK(1,49)	0.336	0.171	-2.28	22.55	23.00	0.373	2024/10/16	
Right Side	18900/1880	20M QPSK(1,49)	0.041	0.021	-0.91	22.55	23.00	0.045	2024/10/16	
Bottom Side	18900/1880	20M QPSK(1,49)	0.732	0.369	-1.71	22.55	23.00	0.812	2024/10/16	
50%RB										
Front Side	18900/1880	20M QPSK(50,49)	0.341	0.188	2.04	21.50	22.00	0.383	2024/10/16	
Back Side	18900/1880	20M QPSK(50,49)	0.713	0.344	0.61	21.50	22.00	0.800	2024/10/16	
Left Side	18900/1880	20M QPSK(50,49)	0.289	0.153	0.65	21.50	22.00	0.324	2024/10/16	
Right Side	18900/1880	20M QPSK(50,49)	0.036	0.019	4.01	21.50	22.00	0.040	2024/10/16	
Bottom Side	18900/1880	20M QPSK(50,49)	0.634	0.329	-2.89	21.50	22.00	0.711	2024/10/16	

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.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left	20175/1732.5	20M	0.125	0.084	4.06	22.66	23.00	0.135	2024/10/22	19#

Cheek		QPSK(1,49)								
Left Tilt 15 Degree	20175/1732.5	20M QPSK(1,49)	0.071	0.047	0.57	22.66	23.00	0.077	2024/10/22	
Right Cheek	20175/1732.5	20M QPSK(1,49)	0.115	0.077	0.56	22.66	23.00	0.124	2024/10/22	
Right Tilt 15 Degree	20175/1732.5	20M QPSK(1,49)	0.056	0.037	2.08	22.66	23.00	0.061	2024/10/22	
50%RB										
Left Cheek	20175/1732.5	20M QPSK(50,24)	0.115	0.078	-3.68	21.63	22.00	0.125	2024/10/22	
Left Tilt 15 Degree	20175/1732.5	20M QPSK(50,24)	0.065	0.044	-1.87	21.63	22.00	0.071	2024/10/22	
Right Cheek	20175/1732.5	20M QPSK(50,24)	0.108	0.073	-3.91	21.63	22.00	0.118	2024/10/22	
Right Tilt 15 Degree	20175/1732.5	20M QPSK(50,24)	0.053	0.035	-2.29	21.63	22.00	0.058	2024/10/22	

NOTE: Head SAR test results of LTE Band 4

]Test Position of Body- Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
1RB										
Front Side	20175/1732.5	20M QPSK(1,49)	0.270	0.144	-2.04	22.66	23.00	0.292	2024/10/22	
Back Side	20175/1732.5	20M QPSK(1,49)	0.528	0.291	-2.39	22.66	23.00	0.571	2024/10/22	
50%RB										
Front Side	20175/1732.5	20M QPSK(50,24)	0.232	0.127	-4.88	21.63	22.00	0.253	2024/10/22	
Back Side	20175/1732.5	20M QPSK(50,24)	0.464	0.248	-3.63	21.63	22.00	0.505	2024/10/22	

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	20175/1732.5	20M QPSK(1,49)	0.270	0.144	-2.04	22.66	23.00	0.292	2024/10/22	
Back Side	20175/1732.5	20M QPSK(1,49)	0.528	0.291	-2.39	22.66	23.00	0.571	2024/10/22	
Left Side	20175/1732.5	20M QPSK(1,49)	0.227	0.119	-3.78	22.66	23.00	0.245	2024/10/22	
Right Side	20175/1732.5	20M QPSK(1,49)	0.027	0.015	2.38	22.66	23.00	0.029	2024/10/22	
Bottom Side	20175/1732.5	20M QPSK(1,49)	0.532	0.279	1.44	22.66	23.00	0.575	2024/10/22	20#
50%RB										
Front Side	20175/1732.5	20M QPSK(50,24)	0.232	0.127	-4.88	21.63	22.00	0.253	2024/10/22	
Back Side	20175/1732.5	20M QPSK(50,24)	0.464	0.248	-3.63	21.63	22.00	0.505	2024/10/22	
Left Side	20175/1732.5	20M QPSK(50,24)	0.206	0.105	3.33	21.63	22.00	0.224	2024/10/22	
Right Side	20175/1732.5	20M QPSK(50,24)	0.024	0.013	-2.7	21.63	22.00	0.026	2024/10/22	
Bottom Side	20175/1732.5	20M QPSK(50,24)	0.496	0.25	2.56	21.63	22.00	0.540	2024/10/22	

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.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	20525/836.5	10M QPSK(1,24)	0.245	0.188	-0.44	22.65	23.00	0.266	2024/10/15	21#
Left Tilt	20525/836.5	10M	0.130	0.096	-3.52	22.65	23.00	0.141	2024/10/15	

15 Degree		QPSK(1,24)								
Right Cheek	20525/836.5	10M QPSK(1,24)	0.223	0.162	-0.49	22.65	23.00	0.242	2024/10/15	
Right Tilt 15 Degree	20525/836.5	10M QPSK(1,24)	0.117	0.086	1.04	22.65	23.00	0.127	2024/10/15	
50%RB										
Left Cheek	20525/836.5	10M QPSK(25,12)	0.21	0.164	1.92	21.56	22.00	0.232	2024/10/15	
Left Tilt 15 Degree	20525/836.5	10M QPSK(25,12)	0.116	0.09	-1.69	21.56	22.00	0.128	2024/10/15	
Right Cheek	20525/836.5	10M QPSK(25,12)	0.192	0.146	-2.51	21.56	22.00	0.212	2024/10/15	
Right Tilt 15 Degree	20525/836.5	10M QPSK(25,12)	0.1	0.078	2.85	21.56	22.00	0.111	2024/10/15	

NOTE: Head SAR test results of LTE Band 5

Test Position of Body-W orn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
1RB										
Front Side	20525/836.5	10M QPSK(1,24)	0.397	0.285	3.72	22.65	23.00	0.430	2024/10/15	
Back Side	20525/836.5	10M QPSK(1,24)	0.569	0.409	-2.66	22.65	23.00	0.617	2024/10/15	22#
50%RB										
Front Side	20525/836.5	10M QPSK(25,12)	0.344	0.26	-2.9	21.56	22.00	0.381	2024/10/15	
Back Side	20525/836.5	10M QPSK(25,12)	0.539	0.358	-1.54	21.56	22.00	0.596	2024/10/15	

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

Test	Test channel	Test Mode	SAR Value	Power	Conducted	Tune-up	Scaled	Date	Plot
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Position of Hotspot with 10mm	/Freq.		(W/kg)		Drift (±5%)	power (dBm)	power (dBm)	SAR 1g (W/Kg)		
			1-g	10-g						
1RB										
Front Side	20525/836.5	10M QPSK(1,24)	0.397	0.285	3.72	22.65	23.00	0.430	2024/10/15	
Back Side	20525/836.5	10M QPSK(1,24)	0.569	0.409	-2.66	22.65	23.00	0.617	2024/10/15	22#
Left Side	20525/836.5	10M QPSK(1,24)	0.180	0.129	2.28	22.65	23.00	0.195	2024/10/15	
Right Side	20525/836.5	10M QPSK(1,24)	0.228	0.162	2.23	22.65	23.00	0.247	2024/10/15	
Bottom Side	20525/836.5	10M QPSK(1,24)	0.134	0.093	3.75	22.65	23.00	0.145	2024/10/15	
50%RB										
Front Side	20525/836.5	10M QPSK(25,12)	0.344	0.26	-2.9	21.56	22.00	0.381	2024/10/15	
Back Side	20525/836.5	10M QPSK(25,12)	0.539	0.358	-1.54	21.56	22.00	0.596	2024/10/15	
Left Side	20525/836.5	10M QPSK(25,12)	0.163	0.111	3.39	21.56	22.00	0.180	2024/10/15	
Right Side	20525/836.5	10M QPSK(25,12)	0.203	0.147	0.19	21.56	22.00	0.225	2024/10/15	
Bottom Side	20525/836.5	10M QPSK(25,12)	0.119	0.083	-1.77	21.56	22.00	0.132	2024/10/15	

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.	Test Mode	SAR Value		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			(W/kg)							
			1-g	10-g						
1RB										
Left Cheek	21100/2535	20M QPSK(1,0)	0.074	0.040	1.87	23.24	24.00	0.088	2024/10/17	23#
Left Tilt 15 Degree	21100/2535	20M QPSK(1,0)	0.041	0.022	2.62	23.24	24.00	0.049	2024/10/17	

Right Cheek	21100/2535	20M QPSK(1,0)	0.066	0.035	0.74	23.24	24.00	0.079	2024/10/17	
Right Tilt 15 Degree	21100/2535	20M QPSK(1,0)	0.035	0.018	-3.87	23.24	24.00	0.042	2024/10/17	
50%RB										
Left Cheek	21100/2535	20M QPSK(50,0)	0.066	0.036	1.82	22.76	23.00	0.070	2024/10/17	
Left Tilt 15 Degree	21100/2535	20M QPSK(50,0)	0.039	0.02	-3.56	22.76	23.00	0.041	2024/10/17	
Right Cheek	21100/2535	20M QPSK(50,0)	0.058	0.033	2.44	22.76	23.00	0.061	2024/10/17	
Right Tilt 15 Degree	21100/2535	20M QPSK(50,0)	0.032	0.016	3.45	22.76	23.00	0.034	2024/10/17	

NOTE: Head SAR test results of LTE Band 7

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	21100/2535	20M QPSK(1,0)	0.021	0.010	1.25	23.24	24.00	0.025	2024/10/17	
Back Side	21100/2535	20M QPSK(1,0)	0.218	0.106	-4.42	23.24	24.00	0.260	2024/10/17	24#
50%RB										
Front Side	21100/2535	20M QPSK(50,0)	0.018	0.009	2.02	22.76	23.00	0.019	2024/10/17	
Back Side	21100/2535	20M QPSK(50,0)	0.185	0.099	-1.31	22.76	23.00	0.196	2024/10/17	

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

[illegible]

1RB										
Front Side	21100/2535	20M QPSK(1,0)	0.021	0.010	1.25	23.24	24.00	0.025	2024/10/17	
Back Side	21100/2535	20M QPSK(1,0)	0.218	0.106	-4.42	23.24	24.00	0.260	2024/10/17	24#
Left Side	21100/2535	20M QPSK(1,0)	0.026	0.012	1.31	23.24	24.00	0.031	2024/10/17	
Right Side	21100/2535	20M QPSK(1,0)	0.002	0.000	0.52	23.24	24.00	0.002	2024/10/17	
Bottom Side	21100/2535	20M QPSK(1,0)	0.138	0.065	1.66	23.24	24.00	0.164	2024/10/17	
50%RB										
Front Side	21100/2535	20M QPSK(50,0)	0.018	0.009	2.02	22.76	23.00	0.019	2024/10/17	
Back Side	21100/2535	20M QPSK(50,0)	0.185	0.099	-1.31	22.76	23.00	0.196	2024/10/17	
Left Side	21100/2535	20M QPSK(50,0)	0.022	0.011	4.25	22.76	23.00	0.023	2024/10/17	
Right Side	21100/2535	20M QPSK(50,0)	0.002	0	-2.07	22.76	23.00	0.002	2024/10/17	
Back Side	21100/2535	20M QPSK(50,0)	0.118	0.061	-0.69	22.76	23.00	0.125	2024/10/17	

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.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	23095/707.5	10M QPSK(1,24)	0.317	0.250	0.62	22.71	23.00	0.339	2024/10/14	25#
Left Tilt 15 Degree	23095/707.5	10M QPSK(1,24)	0.189	0.145	2.04	22.71	23.00	0.202	2024/10/14	
Right Cheek	23095/707.5	10M QPSK(1,24)	0.284	0.224	-2.61	22.71	23.00	0.304	2024/10/14	
Right Tilt 15	23095/707.5	10M QPSK(1,24)	0.147	0.114	-3.08	22.71	23.00	0.157	2024/10/14	

Degree										
50%RB										
Left Cheek	23095/707.5	10M QPSK(25,12)	0.284	0.225	-0.14	21.71	22.00	0.304	2024/10/14	
Left Tilt 15 Degree	23095/707.5	10M QPSK(25,12)	0.161	0.128	-0.55	21.71	22.00	0.172	2024/10/14	
Right Cheek	23095/707.5	10M QPSK(25,12)	0.251	0.21	3.37	21.71	22.00	0.268	2024/10/14	
Right Tilt 15 Degree	23095/707.5	10M QPSK(25,12)	0.128	0.105	4.25	21.71	22.00	0.137	2024/10/14	

NOTE: Head SAR test results of LTE Band 12

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	23095/707.5	10M QPSK(1,24)	0.221	0.161	0.14	22.71	23.00	0.236	2024/10/14	
Back Side	23095/707.5	10M QPSK(1,24)	0.328	0.242	-1.05	22.71	23.00	0.351	2024/10/14	26#
50%RB										
Front Side	23095/707.5	10M QPSK(25,12)	0.195	0.142	-3.63	21.71	22.00	0.208	2024/10/14	
Back Side	23095/707.5	10M QPSK(25,12)	0.288	0.213	-0.93	21.71	22.00	0.308	2024/10/14	

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	23095/707.5	10M QPSK(1,24)	0.221	0.161	0.14	22.71	23.00	0.236	2024/10/14	
Back	23095/707.5	10M	0.328	0.242	-1.05	22.71	23.00	0.351	2024/10/14	26#

Side		QPSK(1,24)								
Left Side	23095/707.5	10M QPSK(1,24)	0.102	0.075	1.60	22.71	23.00	0.109	2024/10/14	
Right Side	23095/707.5	10M QPSK(1,24)	0.141	0.101	2.29	22.71	23.00	0.151	2024/10/14	
Bottom Side	23095/707.5	10M QPSK(1,24)	0.077	0.056	2.47	22.71	23.00	0.082	2024/10/14	
50%RB										
Front Side	23095/707.5	10M QPSK(25,12)	0.195	0.142	-3.63	21.71	22.00	0.208	2024/10/14	
Back Side	23095/707.5	10M QPSK(25,12)	0.288	0.213	-0.93	21.71	22.00	0.308	2024/10/14	
Left Side	23095/707.5	10M QPSK(25,12)	0.096	0.069	-0.81	21.71	22.00	0.103	2024/10/14	
Right Side	23095/707.5	10M QPSK(25,12)	0.127	0.093	0.62	21.71	22.00	0.136	2024/10/14	
Bottom Side	23095/707.5	10M QPSK(25,12)	0.067	0.051	-3.84	21.71	22.00	0.072	2024/10/14	

NOTE: Hotspot SAR test results of LTE Band 12

10.1.11. SAR measurement Result of LTE Band 17

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	23790/710	10M QPSK(1,24)	0.317	0.251	-0.01	22.98	23.00	0.318	2024/10/14	27#
Left Tilt 15 Degree	23790/710	10M QPSK(1,24)	0.166	0.125	1.31	22.98	23.00	0.167	2024/10/14	
Right Cheek	23790/710	10M QPSK(1,24)	0.296	0.220	0.06	22.98	23.00	0.297	2024/10/14	
Right Tilt 15 Degree	23790/710	10M QPSK(1,24)	0.152	0.119	-3.37	22.98	23.00	0.153	2024/10/14	
50%RB										
Left Cheek	23790/710	10M QPSK(25,12)	0.273	0.222	-1.91	21.98	22.00	0.274	2024/10/14	

Left Tilt 15 Degree	23790/710	10M QPSK(25,12)	0.154	0.109	-2.81	21.98	22.00	0.155	2024/10/14	
Right Cheek	23790/710	10M QPSK(25,12)	0.264	0.202	-2.48	21.98	22.00	0.265	2024/10/14	
Right Tilt 15 Degree	23790/710	10M QPSK(25,12)	0.139	0.11	3.75	21.98	22.00	0.140	2024/10/14	

NOTE: Head SAR test results of LTE Band 17

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	23790/710	10M QPSK(1,24)	0.234	0.164	-1.63	22.98	23.00	0.235	2024/10/14	
Back Side	23790/710	10M QPSK(1,24)	0.325	0.240	-0.32	22.98	23.00	0.327	2024/10/14	28#
50%RB										
Front Side	23790/710	10M QPSK(25,12)	0.199	0.149	4.32	21.98	22.00	0.200	2024/10/14	
Back Side	23790/710	10M QPSK(25,12)	0.287	0.209	-3.54	21.98	22.00	0.288	2024/10/14	

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	23790/710	10M QPSK(1,24)	0.234	0.164	-1.63	22.98	23.00	0.235	2024/10/14	
Back Side	23790/710	10M QPSK(1,24)	0.325	0.240	-0.32	22.98	23.00	0.327	2024/10/14	28#
Left Side	23790/710	10M QPSK(1,24)	0.111	0.079	1.50	22.98	23.00	0.112	2024/10/14	
Right	23790/710	10M	0.141	0.100	-2.70	22.98	23.00	0.142	2024/10/14	

Side		QPSK(1,24)								
Bottom Side	23790/710	10M QPSK(1,24)	0.073	0.053	0.51	22.98	23.00	0.073	2024/10/14	
50%RB										
Front Side	23790/710	10M QPSK(25,12)	0.199	0.149	4.32	21.98	22.00	0.200	2024/10/14	
Back Side	23790/710	10M QPSK(25,12)	0.287	0.209	-3.54	21.98	22.00	0.288	2024/10/14	
Left Side	23790/710	10M QPSK(25,12)	0.104	0.07	-2.14	21.98	22.00	0.104	2024/10/14	
Right Side	23790/710	10M QPSK(25,12)	0.12	0.087	-2.79	21.98	22.00	0.121	2024/10/14	
Bottom Side	23790/710	10M QPSK(25,12)	0.064	0.048	-3.92	21.98	22.00	0.064	2024/10/14	

NOTE: Hotspot SAR test results of LTE Band 17

10.1.12. SAR measurement Result of LTE Band 41

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	40620/2593	20M QPSK(1,49)	0.028	0.022	-1.68	22.30	22.50	0.029	2024/10/17	29#
Left Cheek	40620/2593	20M QPSK(1,49)	0.021	0.018	0.63	21.42	22.50	0.027	2024/10/17	
Left Cheek	40620/2593	20M QPSK(1,49)	0.025	0.020	-0.81	22.21	22.50	0.027	2024/10/17	
Left Tilt 15 Degree	40620/2593	20M QPSK(1,49)	0.015	0.013	-2.26	22.30	22.50	0.016	2024/10/17	
Left Tilt 15 Degree	40620/2593	20M QPSK(1,49)	0.011	0.008	-1.41	21.42	22.50	0.014	2024/10/17	
Left Tilt 15 Degree	40620/2593	20M QPSK(1,49)	0.013	0.009	1.65	22.21	22.50	0.014	2024/10/17	
Right Cheek	40620/2593	20M QPSK(1,49)	0.024	0.018	-0.75	22.30	22.50	0.025	2024/10/17	

Right Cheek	40620/2593	20M QPSK(1,49)	0.020	0.015	0.61	21.42	22.50	0.026	2024/10/17	
Right Cheek	40620/2593	20M QPSK(1,49)	0.022	0.016	-1.48	22.21	22.50	0.024	2024/10/17	
Right Tilt 15 Degree	40620/2593	20M QPSK(1,49)	0.012	0.010	-0.46	22.30	22.50	0.013	2024/10/17	
Right Tilt 15 Degree	40620/2593	20M QPSK(1,49)	0.008	0.004	0.29	21.42	22.50	0.010	2024/10/17	
Right Tilt 15 Degree	40620/2593	20M QPSK(1,49)	0.010	0.005	-1.71	22.21	22.50	0.011	2024/10/17	
50%RB										
Left Cheek	40620/2593	20M QPSK(50,49)	0.02	0.016	0.78	21.24	21.50	0.021	2024/10/17	
Left Cheek	40620/2593	20M QPSK(50,49)	0.018	0.015	-3.14	21.42	21.50	0.018	2024/10/17	
Left Cheek	40620/2593	20M QPSK(50,49)	0.023	0.019	2.39	21.28	21.50	0.024	2024/10/17	
Left Tilt 15 Degree	40620/2593	20M QPSK(50,49)	0.01	0.007	-4.89	21.42	21.50	0.010	2024/10/17	
Left Tilt 15 Degree	40620/2593	20M QPSK(50,49)	0.01	0.007	-0.02	21.42	21.50	0.010	2024/10/17	
Left Tilt 15 Degree	40620/2593	20M QPSK(50,49)	0.012	0.008	4.81	21.28	21.50	0.013	2024/10/17	
Right Cheek	40620/2593	20M QPSK(50,49)	0.017	0.013	-3.74	21.42	21.50	0.017	2024/10/17	
Right Cheek	40620/2593	20M QPSK(50,49)	0.017	0.013	3.07	21.42	21.50	0.017	2024/10/17	
Right Cheek	40620/2593	20M QPSK(50,49)	0.021	0.015	-3.54	21.28	21.50	0.022	2024/10/17	
Right Tilt 15 Degree	40620/2593	20M QPSK(50,49)	0.007	0.004	2.41	21.42	21.50	0.007	2024/10/17	
Right Tilt 15 Degree	40620/2593	20M QPSK(50,49)	0.008	0.004	-0.67	21.42	21.50	0.008	2024/10/17	

Degree										
Right Tilt 15 Degree	40620/2593	20M QPSK(50,49)	0.009	0.004	-3.12	21.28	21.50	0.009	2024/10/17	

NOTE: Head SAR test results of LTE Band 41

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	40620/2593	20M QPSK(1,49)	0.011	0.009	-2.44	22.30	22.50	0.012	2024/10/23	
Front Side	40390/2570	20M QPSK(1,49)	0.008	0.005	1.36	21.42	22.50	0.010	2024/10/23	
Front Side	40890/2620	20M QPSK(1,49)	0.010	0.006	-1.47	22.21	22.50	0.011	2024/10/17	
Back Side	40620/2593	20M QPSK(1,49)	0.138	0.069	0.36	22.30	22.50	0.145	2024/10/17	30#
Back Side	40390/2570	20M QPSK(1,49)	0.115	0.049	-1.68	21.42	22.50	0.147	2024/10/17	
Back Side	40890/2620	20M QPSK(1,49)	0.131	0.061	-2.47	22.21	22.50	0.140	2024/10/17	
50%RB										
Front Side	40620/2593	20M QPSK(50,49)	0.007	0.004	4.59	21.24	21.50	0.007	2024/10/17	
Front Side	40390/2570	20M QPSK(50,49)	0.008	0.005	-4.66	21.42	21.50	0.008	2024/10/17	
Front Side	40890/2620	20M QPSK(50,49)	0.009	0.005	-4.12	21.28	21.50	0.009	2024/10/17	
Back Side	40620/2593	20M QPSK(50,49)	0.098	0.044	1.46	21.42	21.50	0.100	2024/10/17	
Back Side	40390/2570	20M QPSK(50,49)	0.101	0.046	-4.48	21.42	21.50	0.103	2024/10/17	
Back Side	40890/2620	20M QPSK(50,49)	0.117	0.056	2.63	21.28	21.50	0.123	2024/10/17	

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

Test Position	Test channel /Freq.	Test Mode	SAR Value (W/kg)	Power Drift	Conducted power	Tune-up power	Scaled SAR	Date	Plot
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of Hotspot with 10mm			1-g	10-g	(±5%)	(dBm)	(dBm)	1g (W/Kg)		
1RB										
Front Side	40620/2593	20M QPSK(1,49)	0.011	0.009	-2.44	22.30	22.50	0.012	2024/10/23	
Front Side	40390/2570	20M QPSK(1,49)	0.008	0.005	1.36	21.42	22.50	0.010	2024/10/23	
Front Side	40890/2620	20M QPSK(1,49)	0.010	0.006	-1.47	22.21	22.50	0.011	2024/10/17	
Back Side	40620/2593	20M QPSK(1,49)	0.138	0.069	0.36	22.30	22.50	0.145	2024/10/17	30#
Back Side	40390/2570	20M QPSK(1,49)	0.115	0.049	-1.68	21.42	22.50	0.147	2024/10/17	
Back Side	40890/2620	20M QPSK(1,49)	0.131	0.061	-2.47	22.21	22.50	0.140	2024/10/17	
Left Side	40620/2593	20M QPSK(1,49)	0.014	0.012	-1.78	22.30	22.50	0.015	2024/10/17	
Left Side	40390/2570	20M QPSK(1,49)	0.010	0.006	2.74	21.42	22.50	0.013	2024/10/17	
Left Side	40890/2620	20M QPSK(1,49)	0.012	0.008	-3.41	22.21	22.50	0.013	2024/10/17	
Right Side	40620/2593	20M QPSK(1,49)	0.002	0.001	3.50	22.30	22.50	0.002	2024/10/17	
Right Side	40390/2570	20M QPSK(1,49)	0.002	0.001	0.63	21.42	22.50	0.003	2024/10/17	
Right Side	40890/2620	20M QPSK(1,49)	0.002	0.001	-1.72	22.21	22.50	0.002	2024/10/17	
Bottom Side	40620/2593	20M QPSK(1,49)	0.102	0.050	-2.82	22.30	22.50	0.107	2024/10/17	
Bottom Side	40390/2570	20M QPSK(1,49)	0.089	0.042	-1.84	21.42	22.50	0.114	2024/10/17	
Bottom Side	40890/2620	20M QPSK(1,49)	0.094	0.049	-3.11	22.21	22.50	0.100	2024/10/17	
50%RB										
Front Side	40620/2593	20M QPSK(50,49)	0.007	0.004	4.59	21.24	21.50	0.007	2024/10/17	
Front Side	40390/2570	20M QPSK(50,49)	0.008	0.005	-4.66	21.42	21.50	0.008	2024/10/17	

Front Side	40890/2620	20M QPSK(50,49)	0.009	0.005	-4.12	21.28	21.50	0.009	2024/10/17	
Back Side	40620/2593	20M QPSK(50,49)	0.098	0.044	1.46	21.42	21.50	0.100	2024/10/17	
Back Side	40390/2570	20M QPSK(50,49)	0.101	0.046	-4.48	21.42	21.50	0.103	2024/10/17	
Back Side	40890/2620	20M QPSK(50,49)	0.117	0.056	2.63	21.28	21.50	0.123	2024/10/17	
Left Side	40620/2593	20M QPSK(50,49)	0.009	0.006	-0.01	21.42	21.50	0.009	2024/10/17	
Left Side	40390/2570	20M QPSK(50,49)	0.009	0.006	-2.92	21.42	21.50	0.009	2024/10/17	
Left Side	40890/2620	20M QPSK(50,49)	0.011	0.007	-1.2	21.28	21.50	0.012	2024/10/17	
Right Side	40620/2593	20M QPSK(50,49)	0.002	0.001	2.51	21.42	21.50	0.002	2024/10/17	
Right Side	40390/2570	20M QPSK(50,49)	0.002	0.001	3.55	21.42	21.50	0.002	2024/10/17	
Right Side	40890/2620	20M QPSK(50,49)	0.002	0.001	-0.73	21.28	21.50	0.002	2024/10/17	
Bottom Side	40620/2593	20M QPSK(50,49)	0.076	0.039	-1.42	21.24	21.50	0.081	2024/10/17	
Bottom Side	40390/2570	20M QPSK(50,49)	0.081	0.04	4.9	21.42	21.50	0.083	2024/10/17	
Bottom Side	40890/2620	20M QPSK(50,49)	0.088	0.045	1	21.28	21.50	0.093	2024/10/17	

NOTE: Hotspot SAR test results of LTE Band 41

10.1.13. SAR measurement Result of LTE Band 66

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	132322/1745	20M QPSK(1,49)	0.103	0.069	3.96	22.78	23.50	0.122	2024/10/22	31#
Left Tilt 15 Degree	132322/1745	20M QPSK(1,49)	0.060	0.040	-1.68	22.78	23.50	0.071	2024/10/22	

NOTE: Head SAR test results of LTE Band 66

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						

1RB										
Front Side	132322/1745	20M QPSK(1,49)	0.255	0.140	1.04	22.78	23.50	0.301	2024/10/22	
Back Side	132322/1745	20M QPSK(1,49)	0.483	0.267	0.74	22.78	23.50	0.570	2024/10/22	32#
Left Side	132322/1745	20M QPSK(1,49)	0.214	0.112	0.85	22.78	23.50	0.253	2024/10/22	
Right Side	132322/1745	20M QPSK(1,49)	0.026	0.014	-3.22	22.78	23.50	0.031	2024/10/22	
Bottom Side	132322/1745	20M QPSK(1,49)	0.466	0.255	3.38	22.78	23.50	0.550	2024/10/22	
50%RB										
Front Side	132322/1745	20M QPSK(50,0)	0.221	0.131	2.18	21.94	22.50	0.251	2024/10/22	
Back Side	132322/1745	20M QPSK(50,0)	0.412	0.253	3.15	21.94	22.50	0.469	2024/10/22	
Left Side	132322/1745	20M QPSK(50,0)	0.182	0.096	-1.65	21.94	22.50	0.207	2024/10/22	
Right Side	132322/1745	20M QPSK(50,0)	0.023	0.012	-4.4	21.94	22.50	0.026	2024/10/22	
Bottom Side	132322/1745	20M QPSK(50,0)	0.427	0.22	-3.3	21.94	22.50	0.486	2024/10/22	

NOTE: Hotspot SAR test results of LTE Band 66

10.1.14. SAR measurement Result of WLAN2.4G

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
Left Cheek	6/2437	802.11b	0.275	0.125	2.36	16.25	16.50	0.291	2024/10/23	15#
Left Tilt 15 Degree	6/2437	802.11b	0.158	0.069	-2.58	16.25	16.50	0.167	2024/10/23	
Right Cheek	6/2437	802.11b	0.251	0.112	0.09	16.25	16.50	0.266	2024/10/23	
Right Tilt 15 Degree	6/2437	802.11b	0.138	0.062	0.42	16.25	16.50	0.146	2024/10/23	

NOTE: Head SAR test results of WLAN2.4G

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	6/2437	802.11b	0.084	0.041	-1.94	16.25	16.50	0.089	2024/10/23	
Back Side	6/2437	802.11b	0.203	0.101	1.34	16.25	16.50	0.215	2024/10/23	16#

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	6/2437	802.11b	0.084	0.041	-1.94	16.25	16.50	0.089	2024/10/23	
Back Side	6/2437	802.11b	0.203	0.101	1.34	16.25	16.50	0.215	2024/10/23	16#
Right Side	6/2437	802.11b	0.081	0.040	-3.46	16.25	16.50	0.086	2024/10/23	
Top Side	6/2437	802.11b	0.069	0.033	3.39	16.25	16.50	0.073	2024/10/23	

NOTE: Hotspot SAR test results of WLAN2.4G

10.1.15. SAR measurement Result of WLAN5.2G

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	48/5240	802.11a	0.469	0.186	1.79	12.25	12.50	0.497	2024/10/24	12#
Left Tilt 15 Degree	48/5240	802.11a	0.269	0.101	-0.41	12.25	12.50	0.285	2024/10/24	
Right Cheek	48/5240	802.11a	0.440	0.166	-0.71	12.25	12.50	0.466	2024/10/24	
Right Tilt 15 Degree	48/5240	802.11a	0.208	0.078	3.77	12.25	12.50	0.220	2024/10/24	

NOTE: Head SAR test results of WLAN5.2G

Test Position of Body-Worn with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	48/5240	802.11a	0.114	0.056	1.12	12.25	12.50	0.121	2024/10/24	
Back Side	48/5240	802.11a	0.151	0.077	-0.33	12.25	12.50	0.160	2024/10/24	

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	48/5240	802.11a	0.114	0.056	1.12	12.25	12.50	0.121	2024/10/24	
Back Side	48/5240	802.11a	0.151	0.077	-0.33	12.25	12.50	0.160	2024/10/24	
Right Side	48/5240	802.11a	0.085	0.043	3.91	12.25	12.50	0.090	2024/10/24	
Top Side	48/5240	802.11a	0.280	0.139	-1.29	12.25	12.50	0.297	2024/10/24	14#

NOTE: Hotspot SAR test results of WLAN5.2G

10.1.16. SAR measurement Result of WLAN5.8G

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	157/5785	802.11ac VHT80	0.922	0.372	-0.47	11.73	12.00	0.981	2024/10/26	11#
Left Tilt 15 Degree	157/5785	802.11ac VHT80	0.471	0.186	-1.00	11.73	12.00	0.501	2024/10/26	
Right Cheek	157/5785	802.11ac VHT80	0.848	0.342	-3.37	11.73	12.00	0.902	2024/10/26	
Right Tilt 15	157/5785	802.11ac VHT80	0.402	0.156	-0.54	11.73	12.00	0.428	2024/10/26	

Degree										
Left Cheek Repeated	157/5785	802.11ac VHT80	0.911	0.354	2.72	11.73	12.00	0.969	2024/10/26	

NOTE: Head SAR test results of WLAN5.8G

Test Position of Body-Worn with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	157/5785	802.11ac VHT80	0.296	0.153	3.68	11.73	12.00	0.315	2024/10/26	13#
Back Side	157/5785	802.11ac VHT80	0.211	0.116	3.45	11.73	12.00	0.225	2024/10/26	

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	157/5785	802.11ac VHT80	0.296	0.153	3.68	11.73	12.00	0.315	2024/10/26	13#
Back Side	157/5785	802.11ac VHT80	0.211	0.116	3.45	11.73	12.00	0.225	2024/10/26	
Right Side	157/5785	802.11ac VHT80	0.276	0.149	1.59	11.73	12.00	0.294	2024/10/26	
Top Side	157/5785	802.11ac VHT80	0.206	0.112	-1.96	11.73	12.00	0.219	2024/10/26	

NOTE: Hotspot SAR test results of WLAN5.8G

10.2. Simultaneous Transmission Analysis

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

- 1) Scalar SAR summation $< 1.6\text{W/kg}$.
- 2) $\text{SPLSR} = (\text{SAR}_1 + \text{SAR}_2)^{1.5} / (\text{min. separation distance, mm})$, 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 $\text{SPLSR} \leq 0.04$, 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	0.341	0.291	0.632	N/A	N/A
	Left Tilt 15 Degree	0.202	0.167	0.369	N/A	N/A
	Right Cheek	0.312	0.266	0.578	N/A	N/A
	Right Tilt 15 Degree	0.162	0.146	0.308	N/A	N/A
Body-Worn	Front Side	0.487	0.089	0.576	N/A	N/A
	Back Side	0.846	0.215	1.061	N/A	N/A
Hotspot	Front Side	0.487	0.089	0.576	N/A	N/A
	Back Side	0.846	0.215	1.061	N/A	N/A
	Left Side	0.373	N/A	0.373	N/A	N/A
	Right Side	0.288	0.086	0.374	N/A	N/A
	Top Side	N/A	0.073	0.073	N/A	N/A
	Bottom Side	0.812	N/A	0.812	N/A	N/A

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	NII			
Head	Left Cheek	0.341	0.981	1.322	N/A	N/A
	Left Tilt 15 Degree	0.202	0.501	0.703	N/A	N/A
	Right Cheek	0.312	0.902	1.214	N/A	N/A
	Right Tilt 15 Degree	0.162	0.428	0.59	N/A	N/A
Body-Worn	Front Side	0.487	0.315	0.802	N/A	N/A
	Back Side	0.846	0.225	1.071	N/A	N/A
Hotspot	Front Side	0.487	0.315	0.802	N/A	N/A
	Back Side	0.846	0.225	1.071	N/A	N/A
	Left Side	0.373	N/A	0.373	N/A	N/A
	Right Side	0.288	0.294	0.582	N/A	N/A
	Top Side	N/A	0.297	0.297	N/A	N/A
	Bottom Side	0.812	N/A	0.812	N/A	N/A

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	DSS			
Head	Left Cheek	0.341	0.167	0.508	N/A	N/A
	Left Tilt 15 Degree	0.202	0.167	0.369	N/A	N/A
	Right Cheek	0.312	0.167	0.479	N/A	N/A
	Right Tilt 15 Degree	0.162	0.167	0.329	N/A	N/A
Body-Worn	Front Side	0.487	0.084	0.571	N/A	N/A
	Back Side	0.846	0.084	0.93	N/A	N/A
Hotspot	Front Side	0.487	0.084	0.571	N/A	N/A
	Back Side	0.846	0.084	0.93	N/A	N/A
	Left Side	0.373	0.084	0.457	N/A	N/A
	Right Side	0.288	0.084	0.372	N/A	N/A
	Top Side	N/A	0.084	0.084	N/A	N/A
	Bottom Side	0.812	0.084	0.896	N/A	N/A

11. Appendix A. Photo documentation

Refer to appendix Test Setup photo---SAR

12. Appendix B. System Check Plots

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MEASUREMENT 1 System Performance Check - 750MHz
MEASUREMENT 2 System Performance Check - 835MHz
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MEASUREMENT 4 System Performance Check - 1900MHz
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MEASUREMENT 6 System Performance Check - 2600MHz
MEASUREMENT 7 System Performance Check - 5200MHz
MEASUREMENT 8 System Performance Check - 5800MHz

MEASUREMENT 1

Date of measurement: 14/10/2024

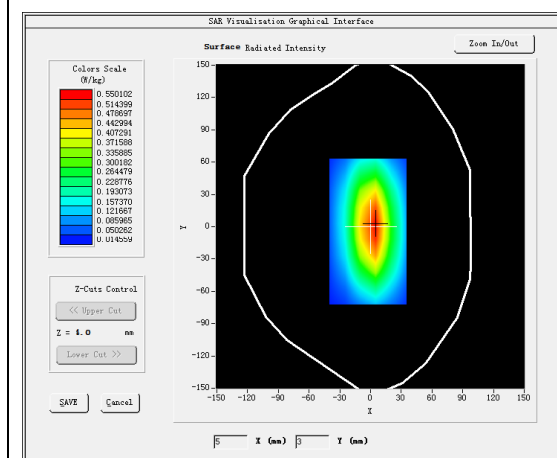
A. Experimental conditions.

<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>CW750</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.42</u>

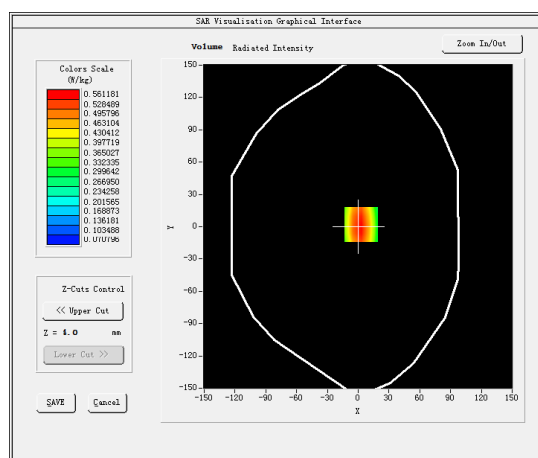
B. SAR Measurement Results

Frequency (MHz)	750.000000
Relative permittivity (real part)	40.536882
Relative permittivity (imaginary part)	21.543746
Conductivity (S/m)	0.897656
Variation (%)	-0.690000

SURFACE SAR



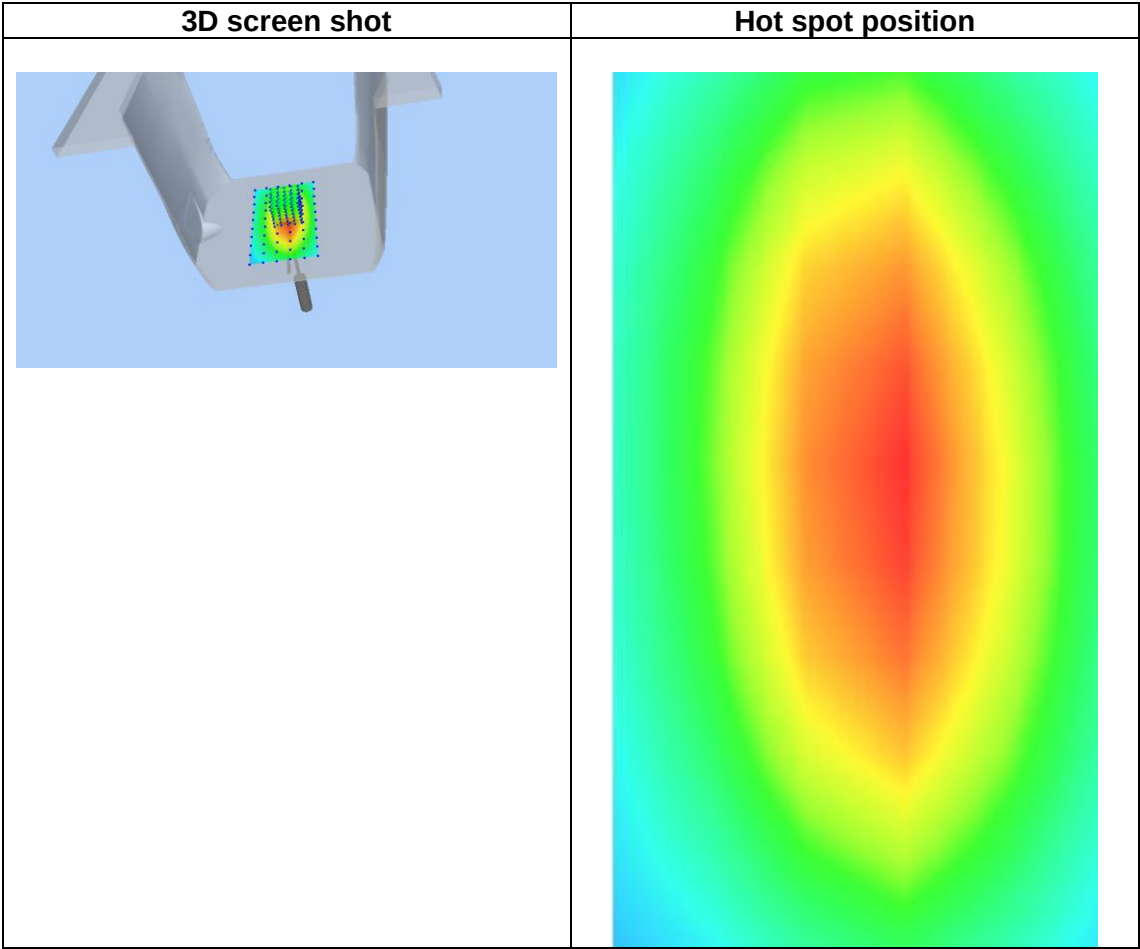
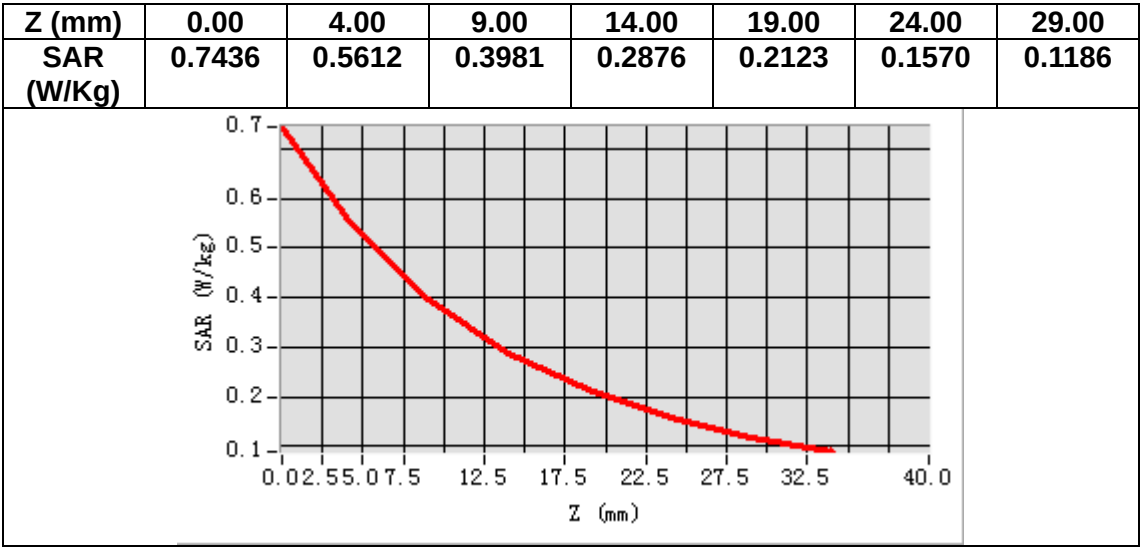
VOLUME SAR



Maximum location: X=3.00, Y=2.00

SAR Peak: 0.74 W/kg

SAR 10g (W/Kg)	0.366709
SAR 1g (W/Kg)	0.544567



MEASUREMENT 2

Date of measurement: 15/10/2024

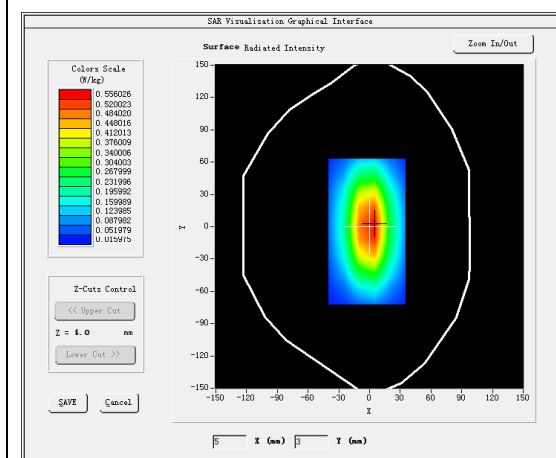
A. Experimental conditions.

<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>CW835</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.34</u>

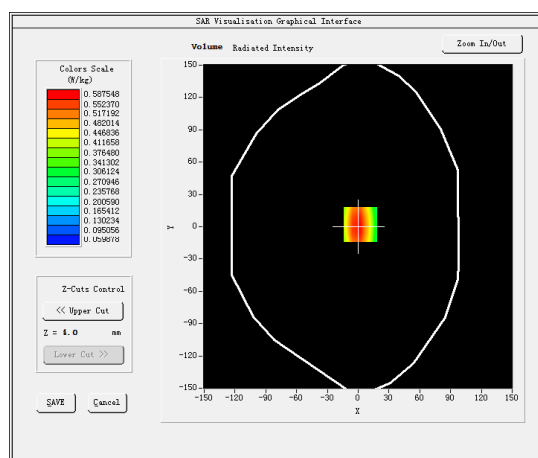
B. SAR Measurement Results

Frequency (MHz)	835.000000
Relative permittivity (real part)	41.962568
Relative permittivity (imaginary part)	19.705231
Conductivity (S/m)	0.914104
Variation (%)	-0.910000

SURFACE SAR



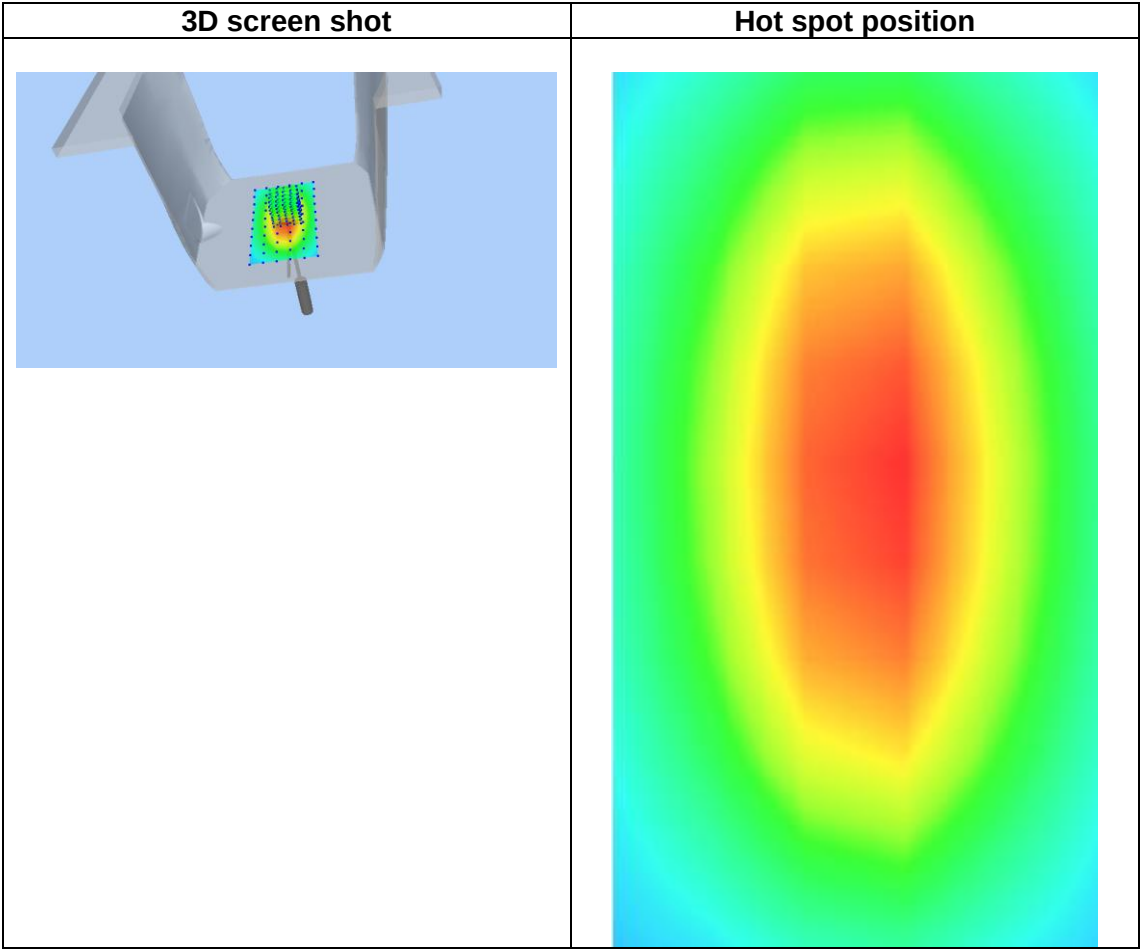
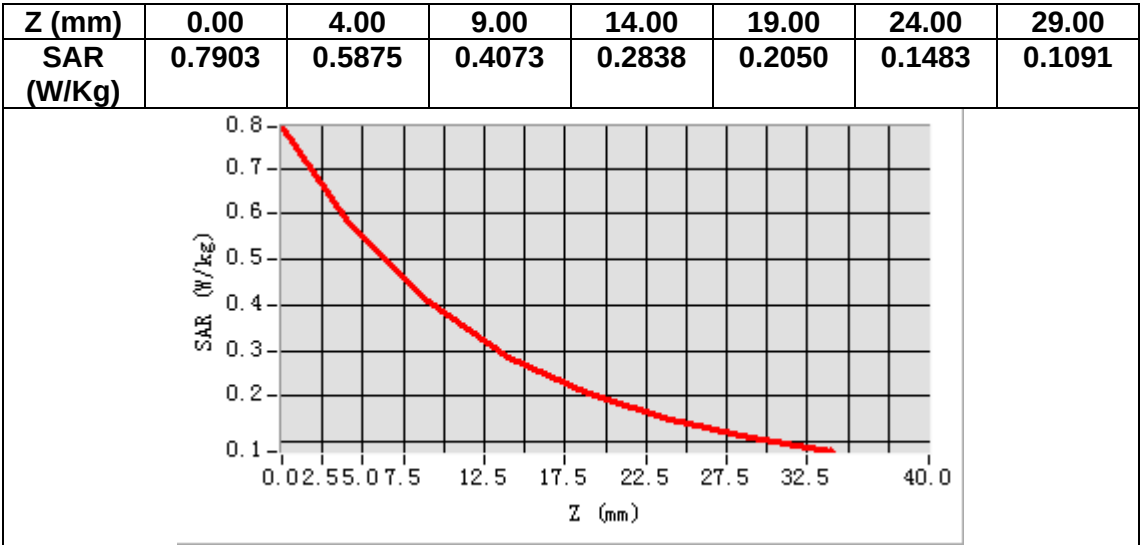
VOLUME SAR



Maximum location: X=2.00, Y=2.00

SAR Peak: 0.80 W/kg

SAR 10g (W/Kg)	0.376230
SAR 1g (W/Kg)	0.574431



MEASUREMENT 3

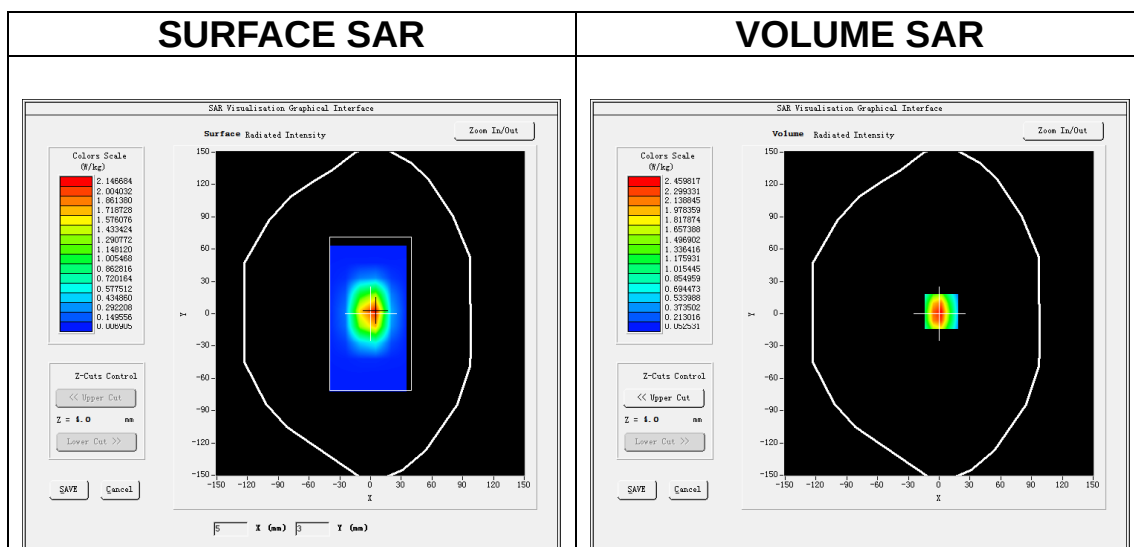
Date of measurement: 22/10/2024

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>2.51</u>

B. SAR Measurement Results

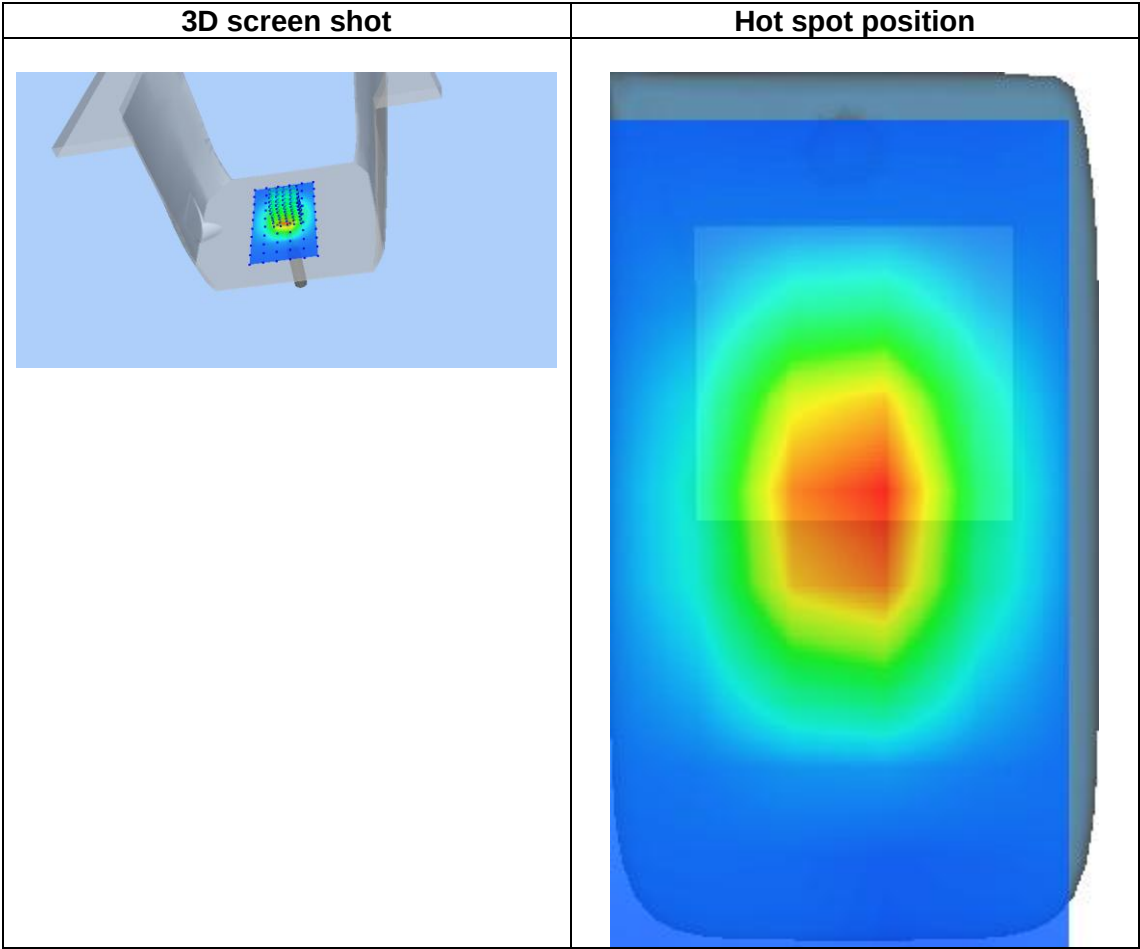
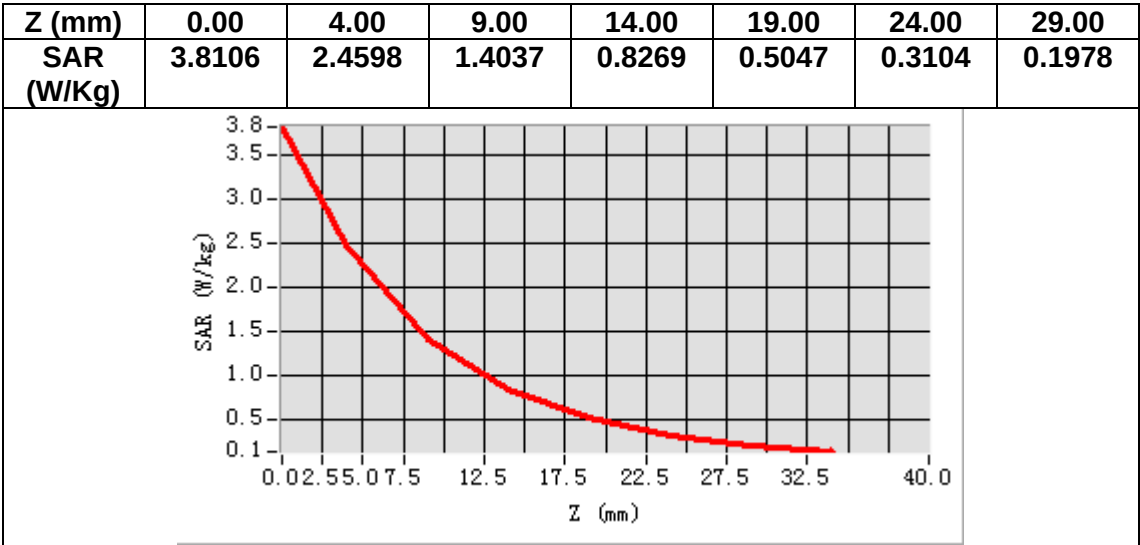
Frequency (MHz)	1800.000000
Relative permittivity (real part)	39.255407
Relative permittivity (imaginary part)	13.685589
Conductivity (S/m)	1.368559
Variation (%)	-0.150000



Maximum location: X=2.00, Y=2.00

SAR Peak: 3.95 W/kg

SAR 10g (W/Kg)	1.237550
SAR 1g (W/Kg)	2.386384



MEASUREMENT 4

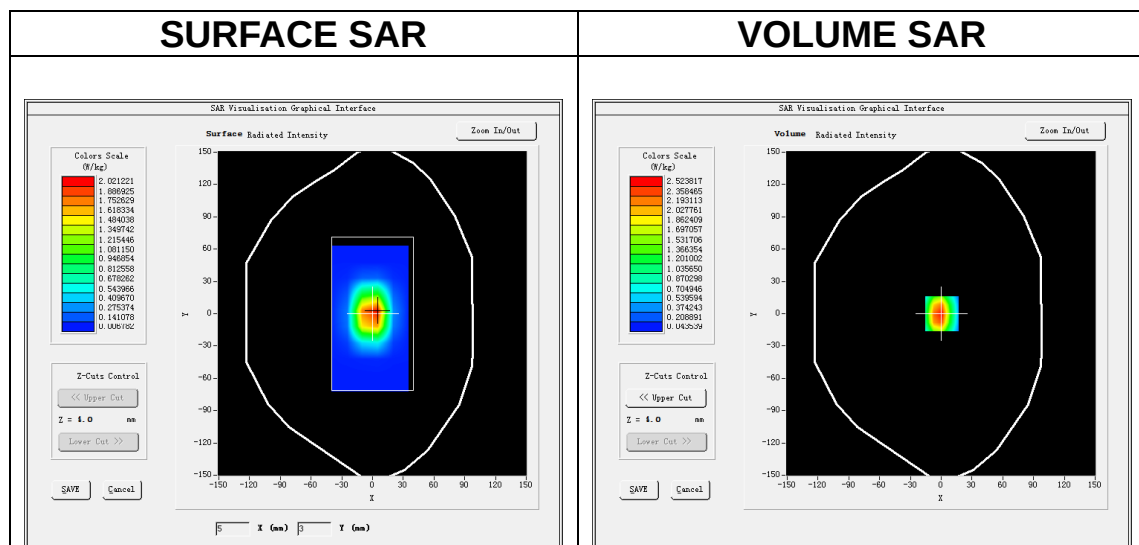
Date of measurement: 16/10/2024

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>2.57</u>

B. SAR Measurement Results

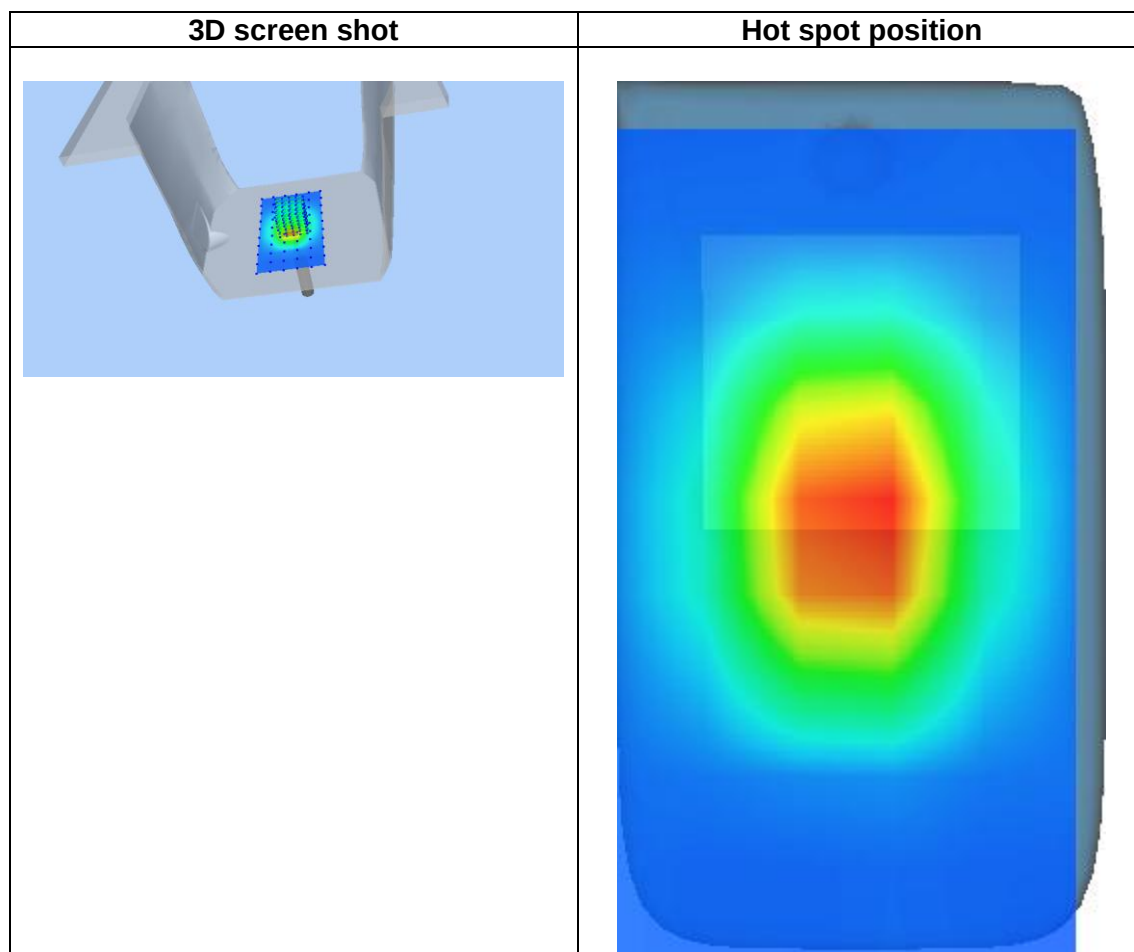
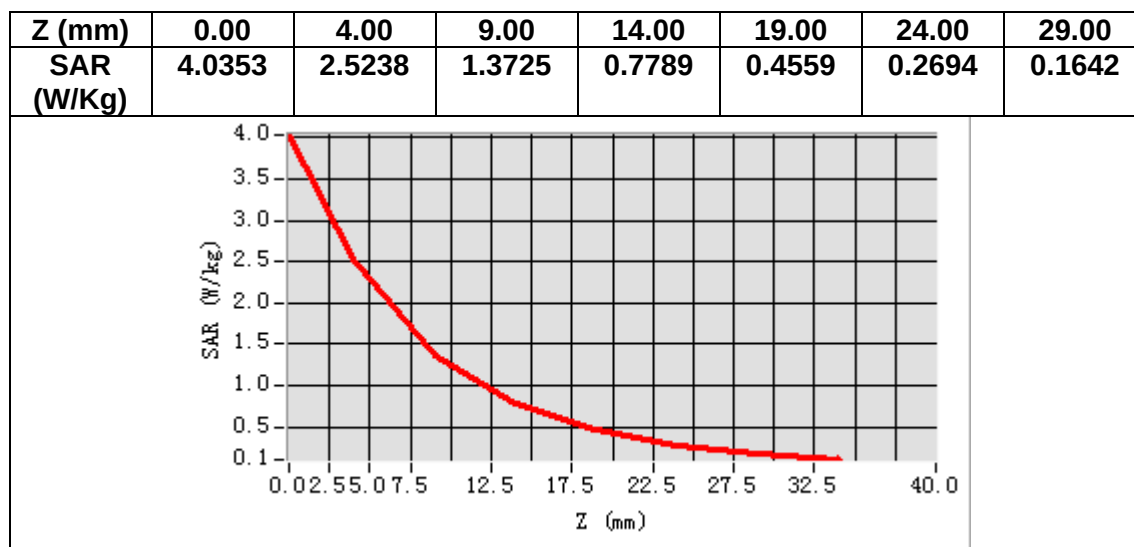
Frequency (MHz)	1900.000000
Relative permittivity (real part)	38.570754
Relative permittivity (imaginary part)	13.854547
Conductivity (S/m)	1.462424
Variation (%)	-0.230000



Maximum location: X=1.00, Y=0.00

SAR Peak: 4.17 W/kg

SAR 10g (W/Kg)	1.242750
SAR 1g (W/Kg)	2.526869



MEASUREMENT 5

Date of measurement: 23/10/2024

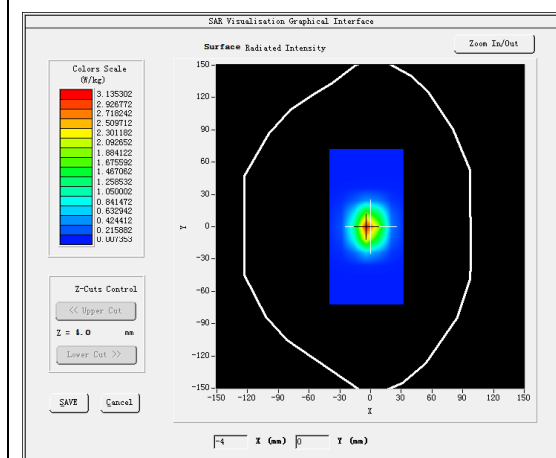
A. Experimental conditions.

<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>2.74</u>

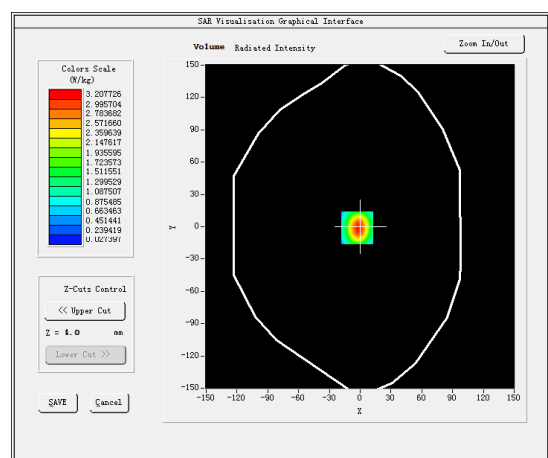
B. SAR Measurement Results

Frequency (MHz)	2450.000000
Relative permittivity (real part)	39.835870
Relative permittivity (imaginary part)	13.186533
Conductivity (S/m)	1.798169
Variation (%)	-2.460000

SURFACE SAR



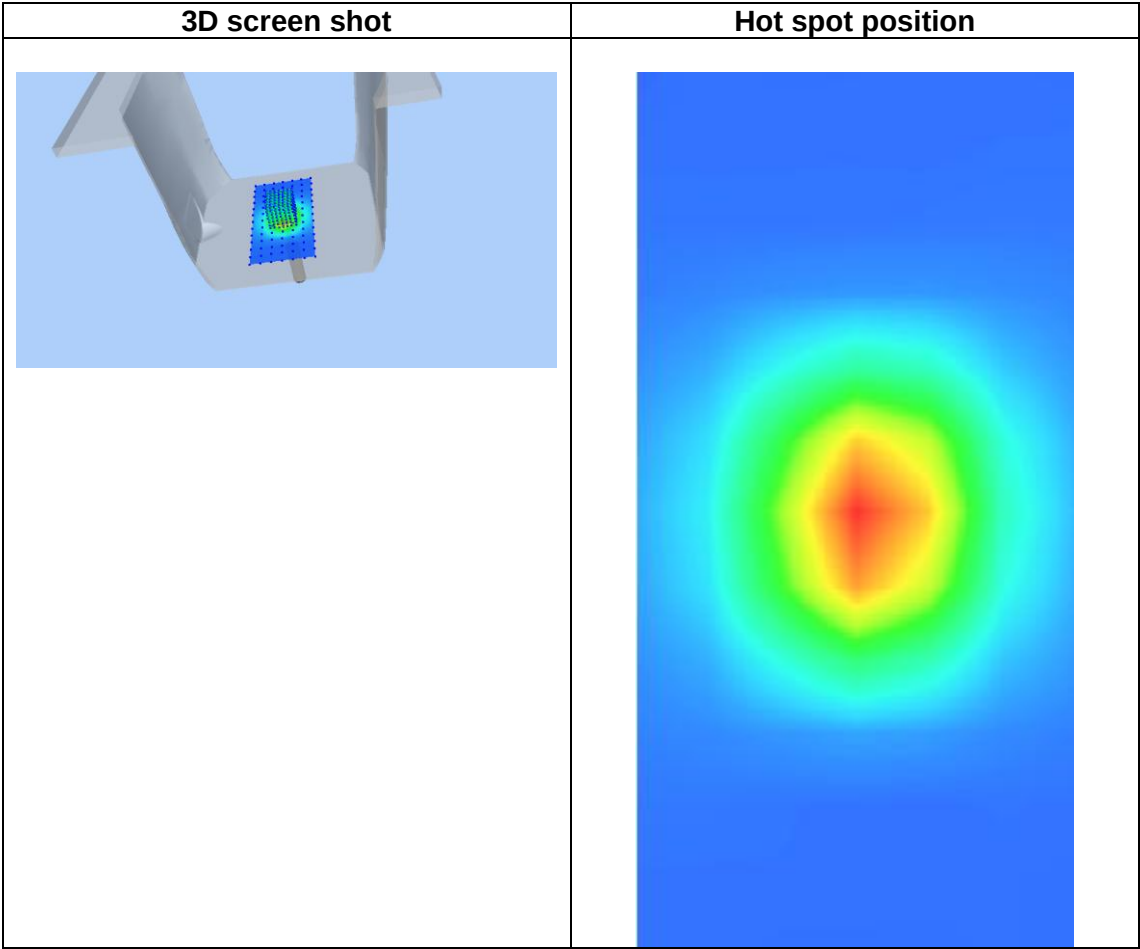
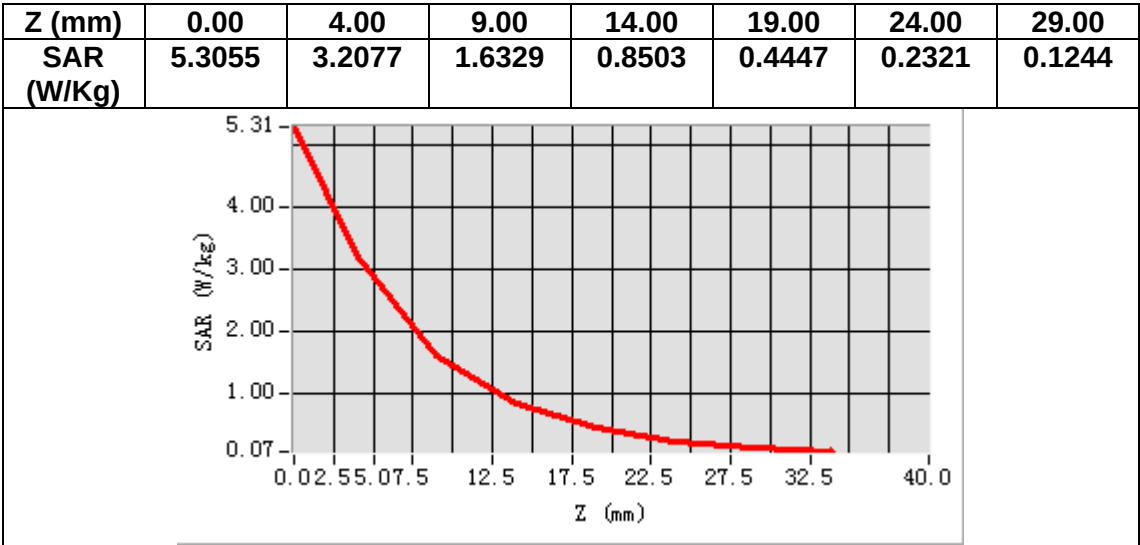
VOLUME SAR



Maximum location: X=-3.00, Y=-1.00

SAR Peak: 5.28 W/kg

SAR 10g (W/Kg)	1.414419
SAR 1g (W/Kg)	2.965748



MEASUREMENT 6

Date of measurement: 17/10/2024

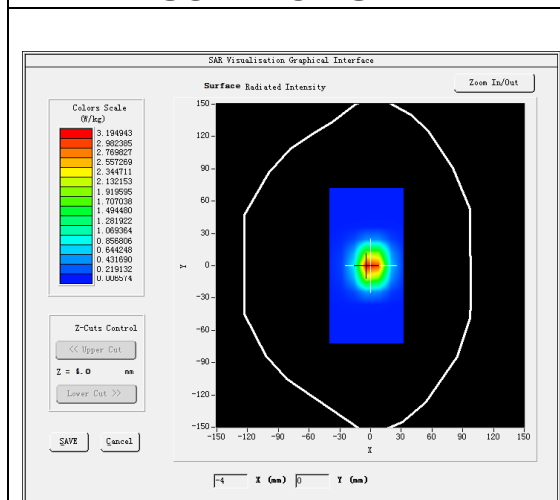
A. Experimental conditions.

<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>2.51</u>

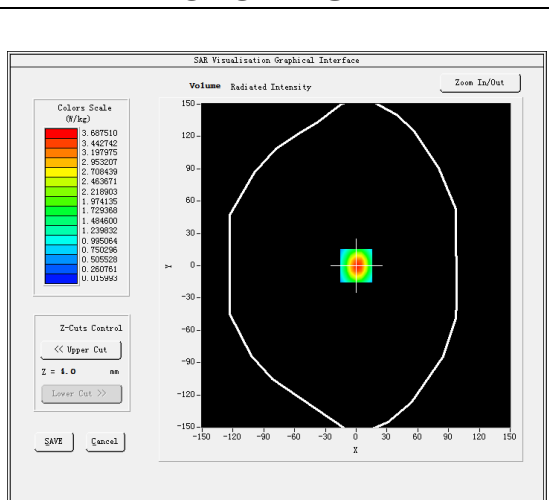
B. SAR Measurement Results

Frequency (MHz)	2600.000000
Relative permittivity (real part)	38.910442
Relative permittivity (imaginary part)	13.999088
Conductivity (S/m)	2.02209
Variation (%)	-1.660000

SURFACE SAR



VOLUME SAR



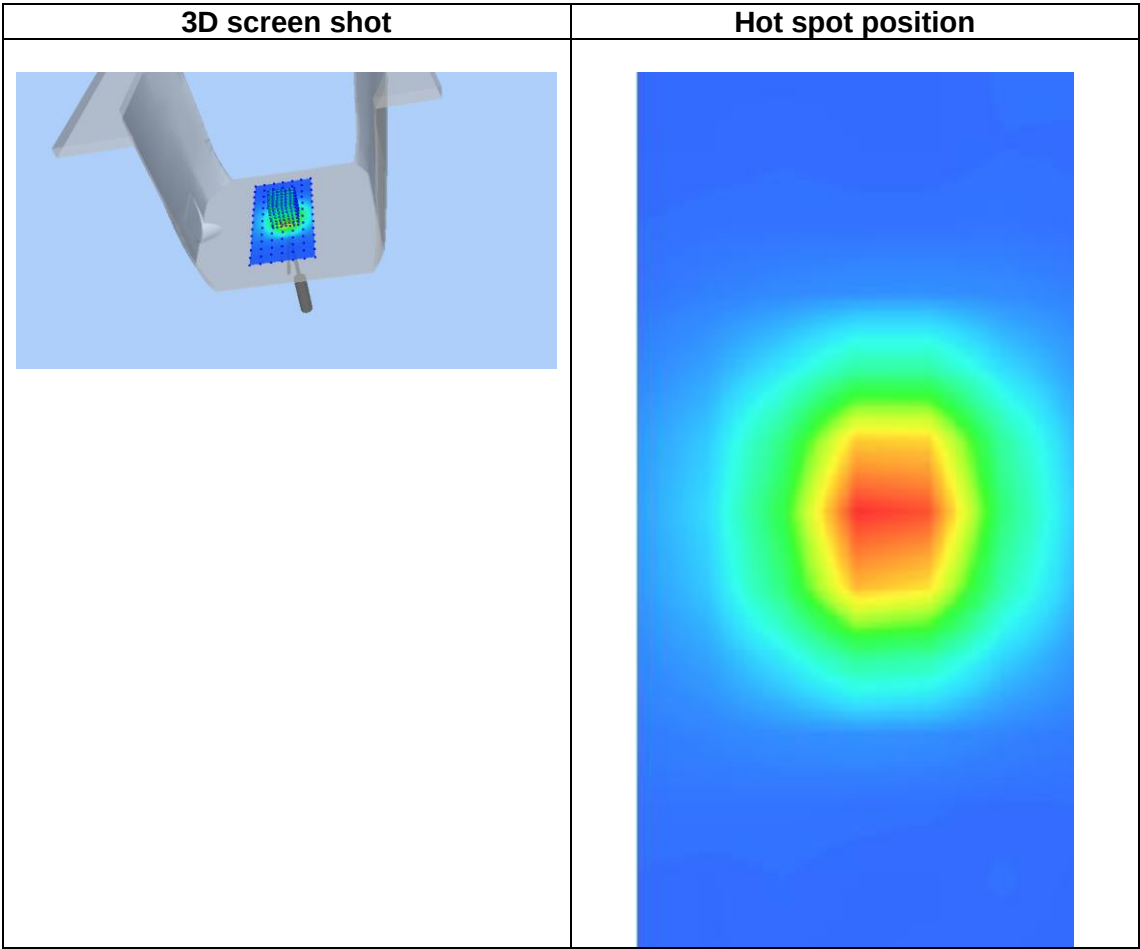
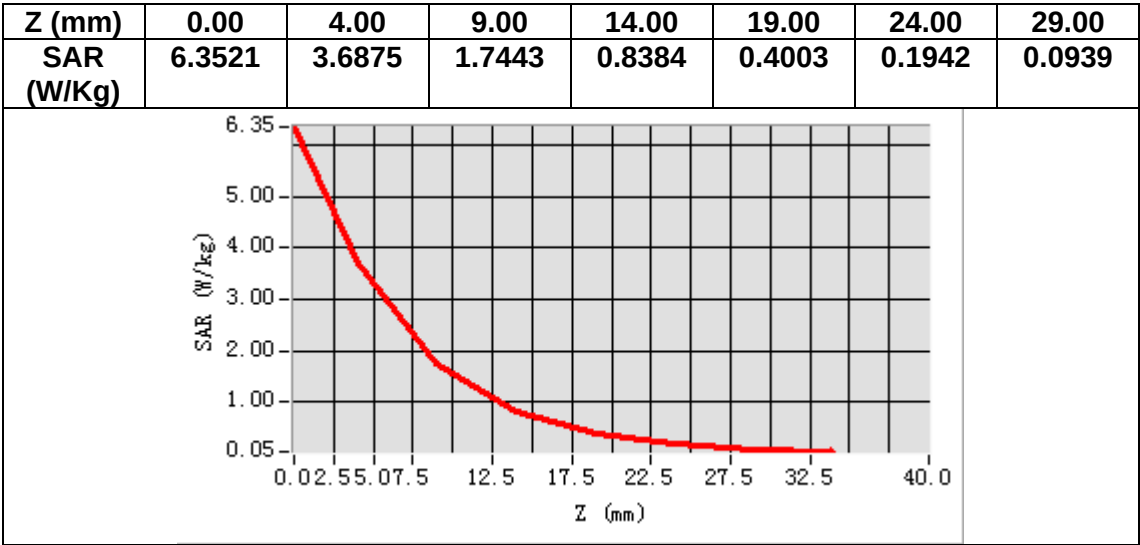
Maximum location: X=0.00, Y=0.00

SAR Peak: 6.32 W/kg

SAR 10g (W/Kg)

1.557075

SAR 1g (W/Kg)	3.451560
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MEASUREMENT 7

Date of measurement: 24/10/2024

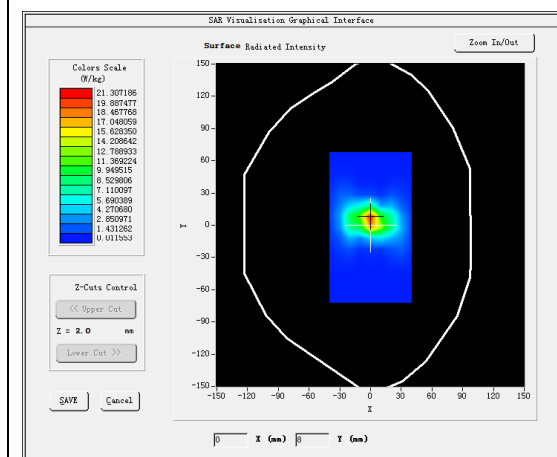
A. Experimental conditions.

<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>1.89</u>

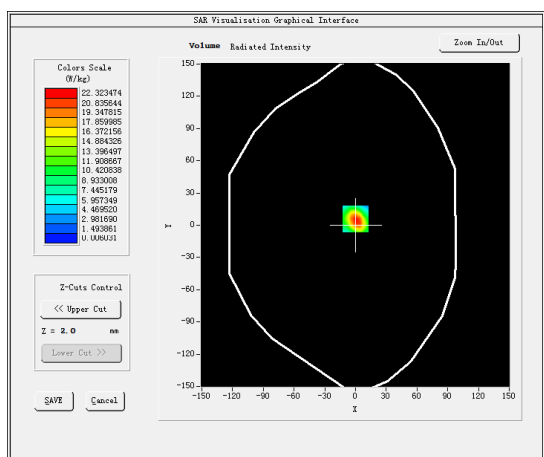
B. SAR Measurement Results

Frequency (MHz)	5200.000000
Relative permittivity (real part)	36.620948
Relative permittivity (imaginary part)	15.628512
Conductivity (S/m)	4.516237
Variation (%)	3.790000

SURFACE SAR



VOLUME SAR



Maximum location: X=0.00, Y=6.00

SAR Peak: 40.06 W/kg

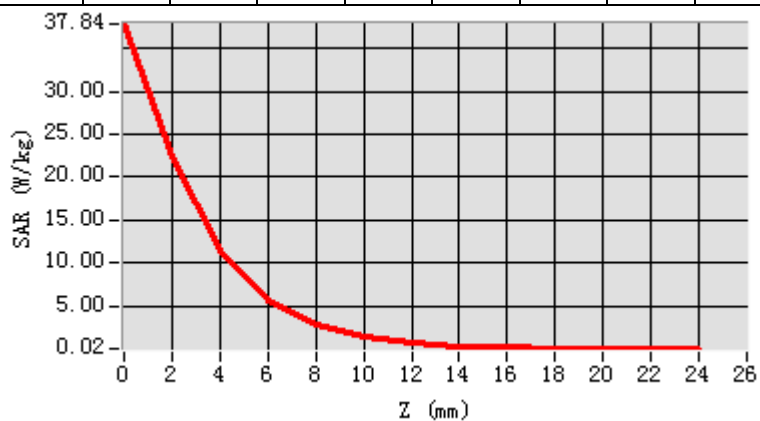
SAR 10g (W/Kg)

5.96217

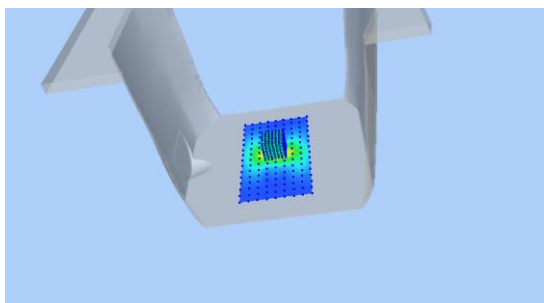
SAR 1g (W/Kg)

15.218024

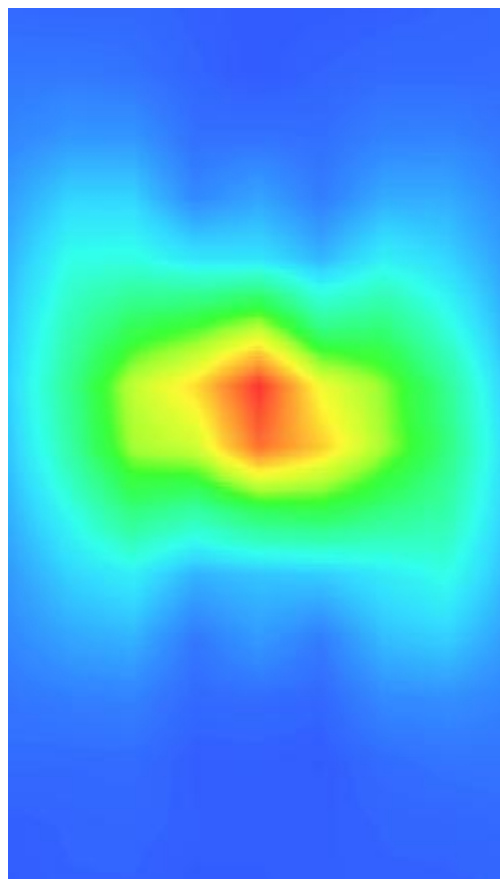
Z (m m)	0.00	2.00	4.00	6.00	8.00	10.0 0	12.0 0	14.0 0	16.0 0	18.0 0	20.0 0	22.0 0
SAR (W/ Kg)	37.8 23	22.3 59	11.3 97	5.66 31	2.82 50	1.40 23	0.71 98	0.36 20	0.18 37	0.10 96	0.05 42	0.03 27



3D screen shot



Hot spot position



MEASUREMENT 8

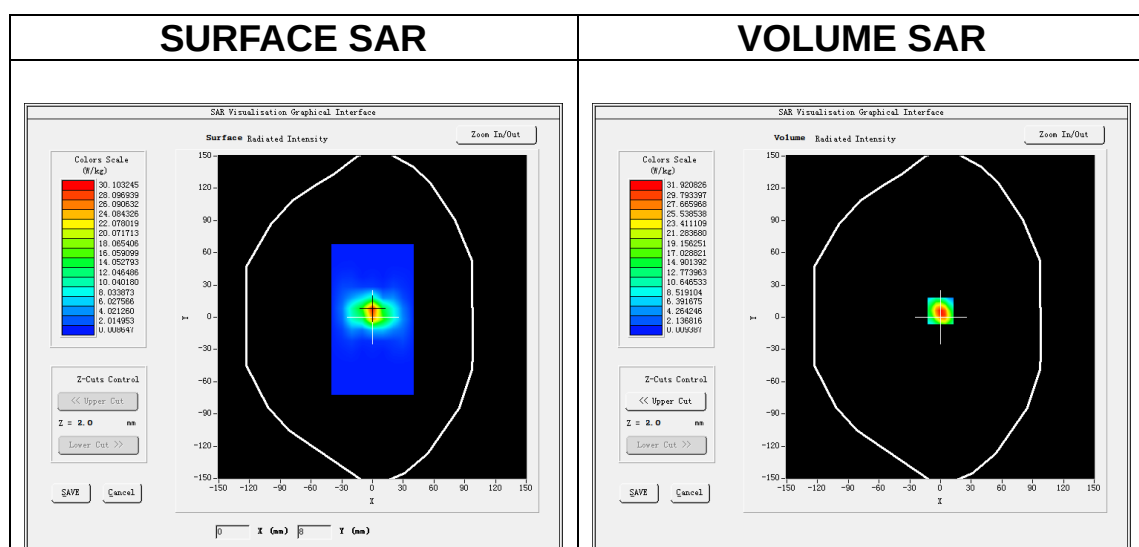
Date of measurement: 26/10/2024

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>Dipole</u>
Band	<u>CW5800</u>
Channels	<u>Middle</u>
Signal	<u>CW (Crest factor: 1.0)</u>
ConvF	<u>1.90</u>

B. SAR Measurement Results

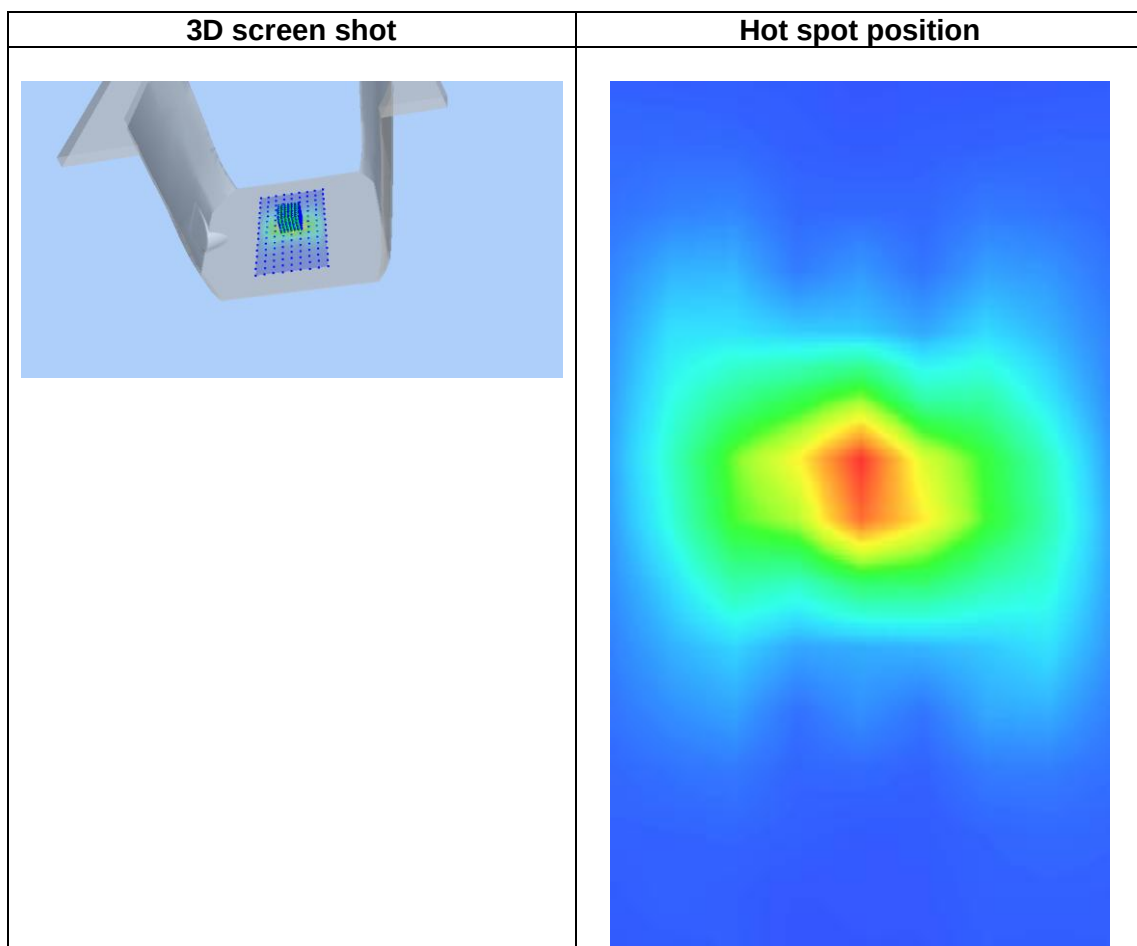
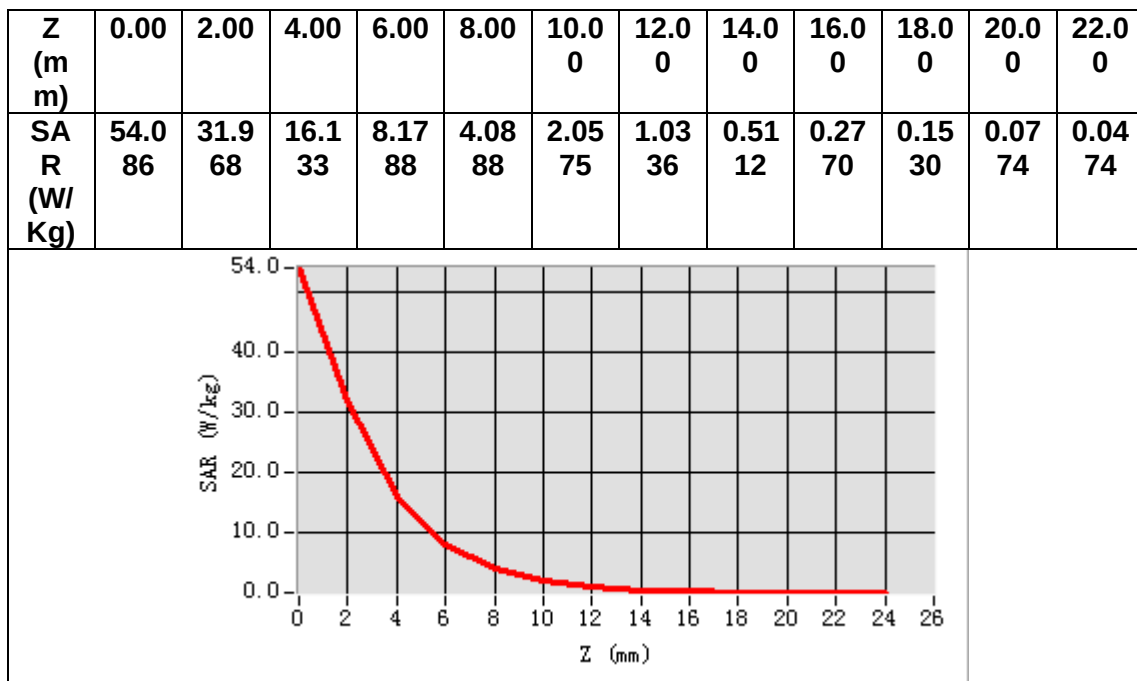
Frequency (MHz)	5800.000000
Relative permittivity (real part)	35.472098
Relative permittivity (imaginary part)	15.972741
Conductivity (S/m)	5.135105
Variation (%)	-1.540000



Maximum location: X=0.00, Y=6.00

SAR Peak: 57.37 W/kg

SAR 10g (W/Kg)	5.570177
SAR 1g (W/Kg)	17.515230



13. Appendix C. Plots of High SAR Measurement

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MEASUREMENT 30 LTE Band 41 Body
MEASUREMENT 31 LTE Band 66 Head
MEASUREMENT 32 LTE Band 66 Body

MEASUREMENT 1

Date of measurement: 15/10/2024

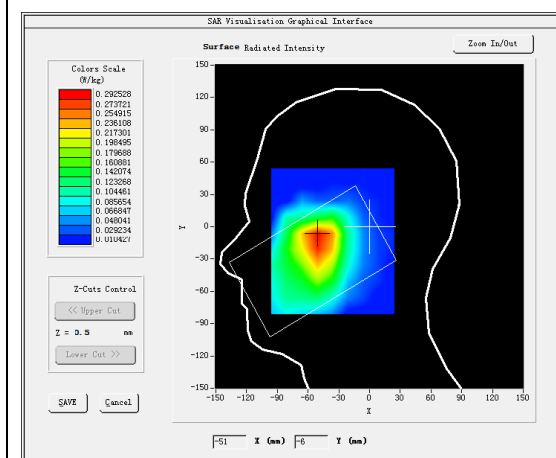
A. Experimental conditions.

<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: 8.0)</u>
<u>ConvF</u>	<u>2.34</u>

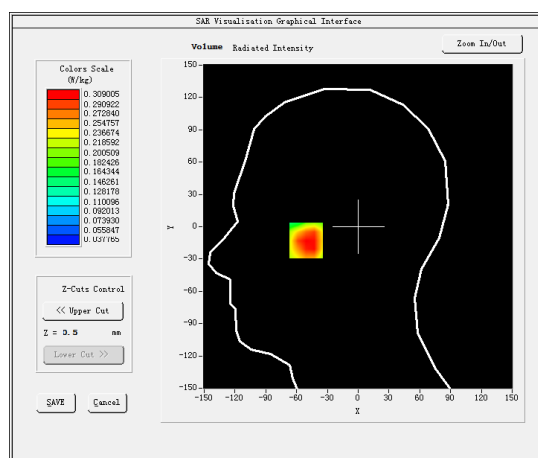
B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative permittivity (real part)	41.878227
Relative permittivity (imaginary part)	19.731071
Conductivity (S/m)	0.916837
Variation (%)	2.040000

SURFACE SAR



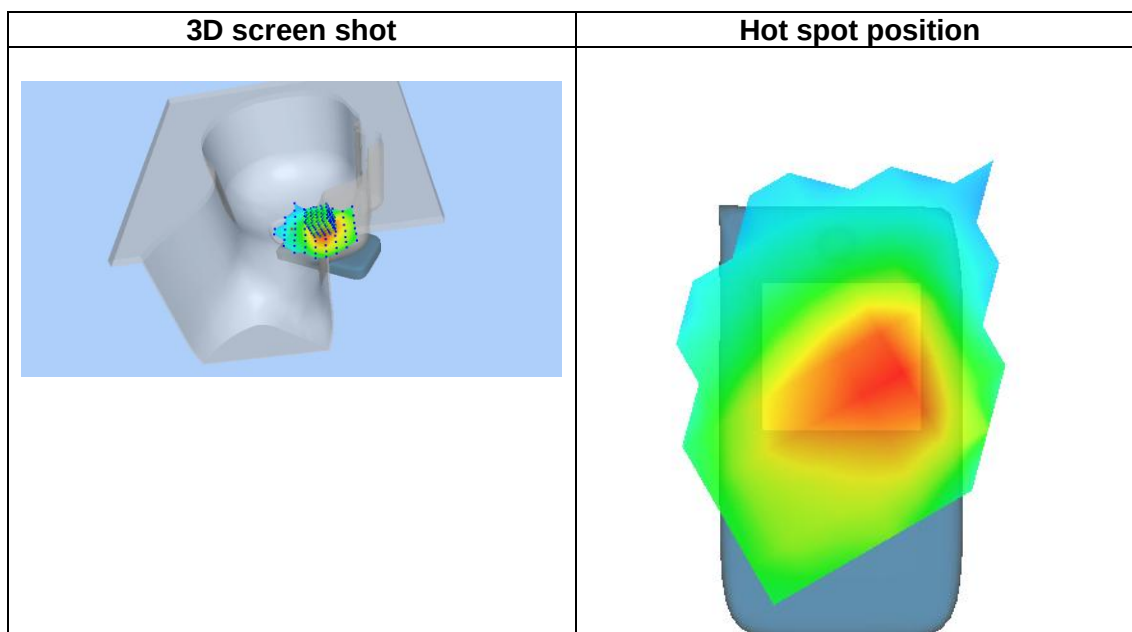
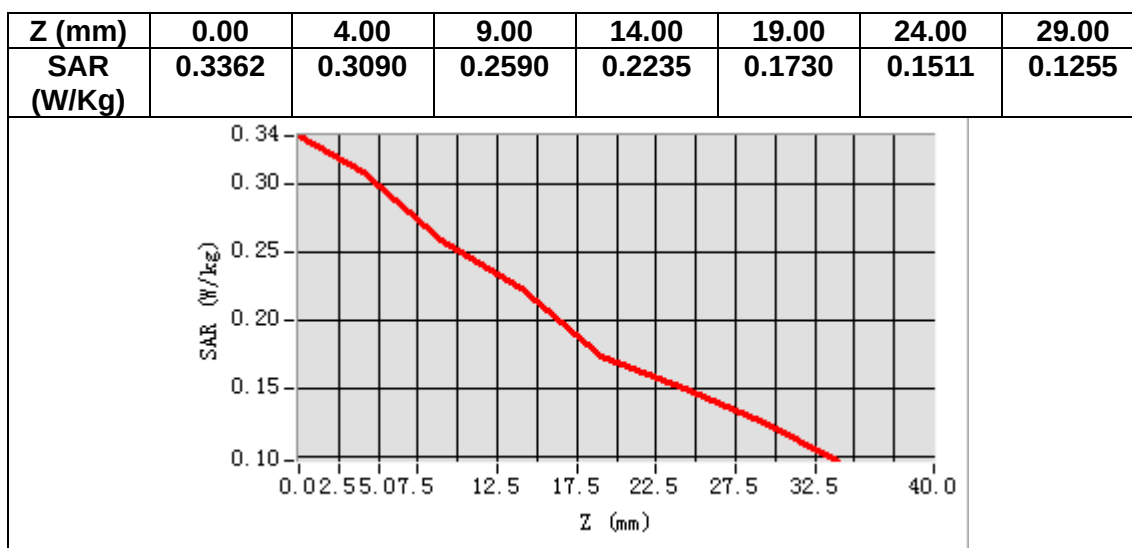
VOLUME SAR



Maximum location: X=-51.00, Y=-11.00

SAR Peak: 0.38 W/kg

SAR 10g (W/Kg)	0.235999
SAR 1g (W/Kg)	0.305052



MEASUREMENT 2

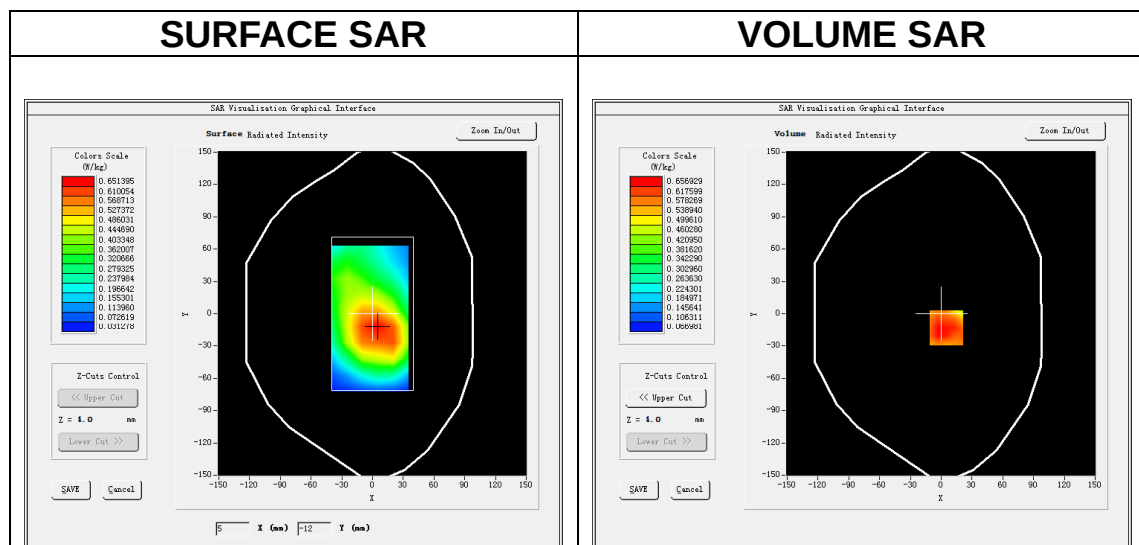
Date of measurement: 15/10/2024

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: 8.0)</u>
<u>ConvF</u>	<u>2.34</u>

B. SAR Measurement Results

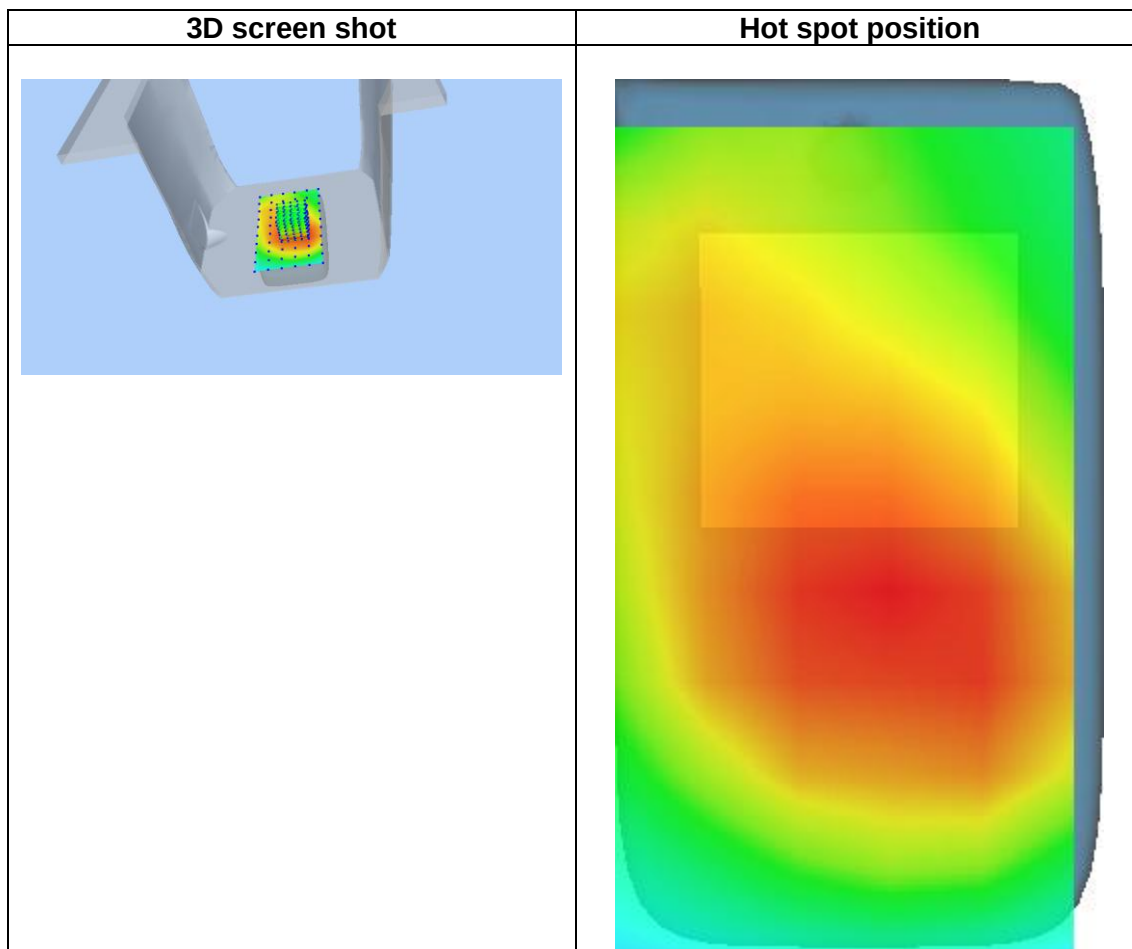
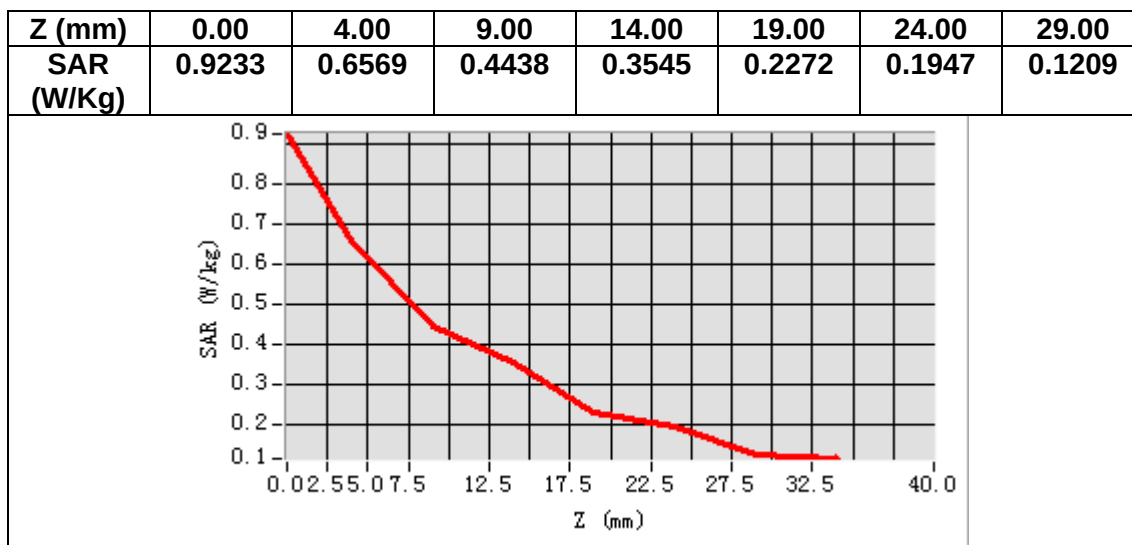
Frequency (MHz)	836.400000
Relative permittivity (real part)	41.878227
Relative permittivity (imaginary part)	19.731071
Conductivity (S/m)	0.916837
Variation (%)	-0.940000



Maximum location: X=5.00, Y=-13.00

SAR Peak: 0.93 W/kg

SAR 10g (W/Kg)	0.453693
SAR 1g (W/Kg)	0.656634



MEASUREMENT 3

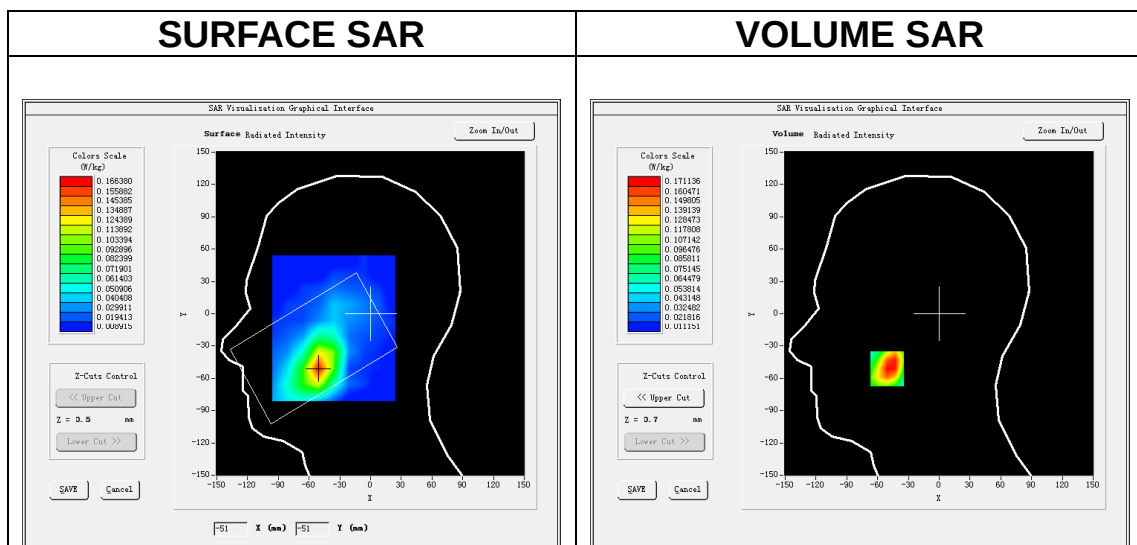
Date of measurement: 16/10/2024

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>GSM1900</u>
Channels	<u>Middle</u>
Signal	<u>TDMA (Crest factor: 8.0)</u>
ConvF	<u>2.57</u>

B. SAR Measurement Results

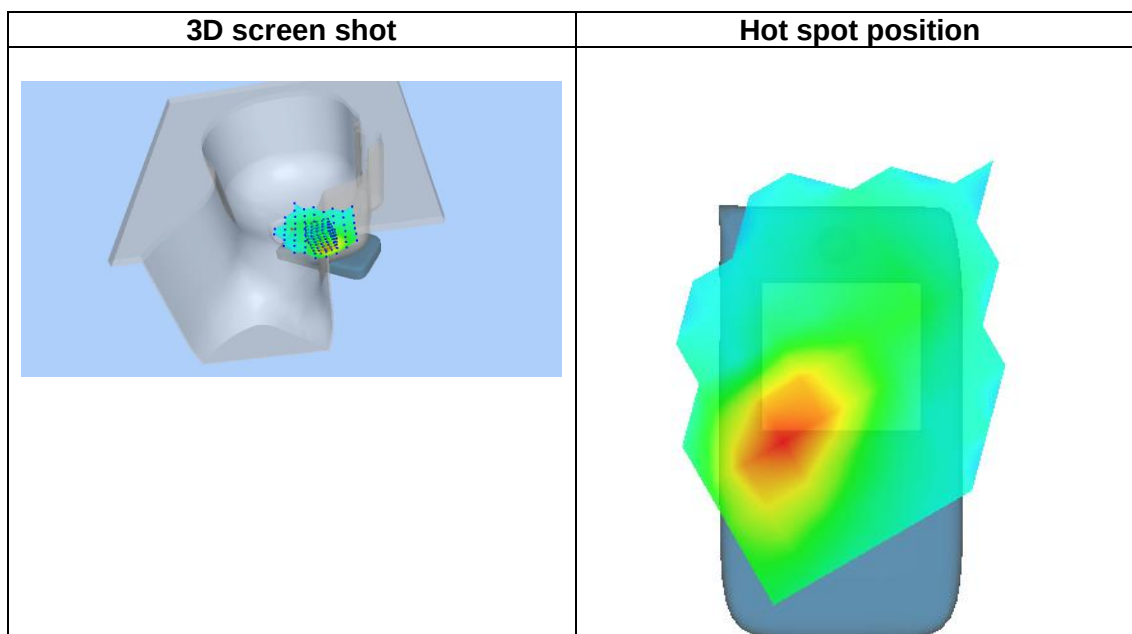
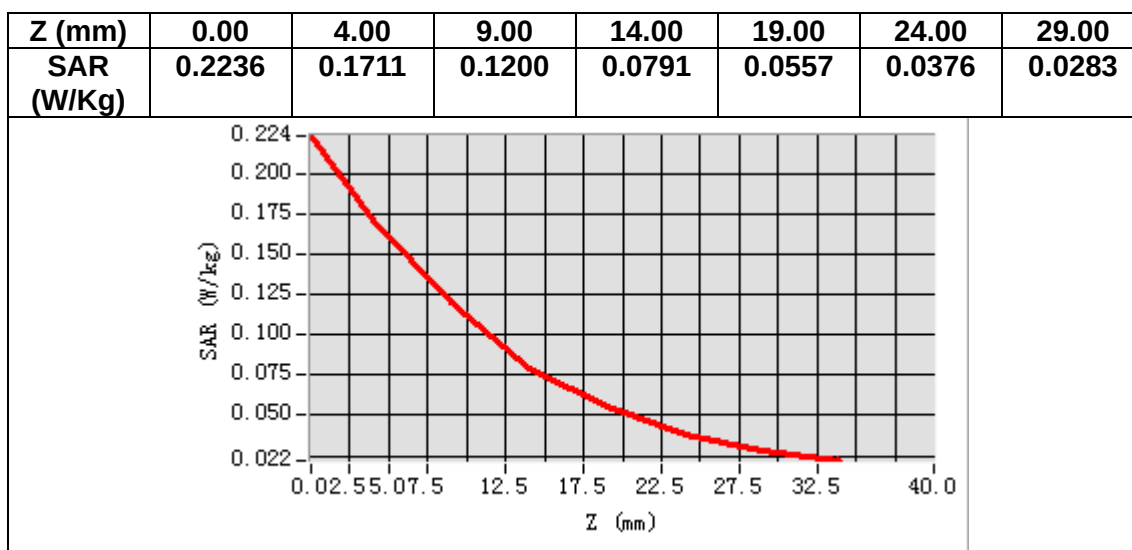
Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.657154
Relative permittivity (imaginary part)	13.872347
Conductivity (S/m)	1.448890
Variation (%)	3.350000



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

SAR Peak: 0.25 W/kg

SAR 10g (W/Kg)	0.100527
SAR 1g (W/Kg)	0.171353



MEASUREMENT 4

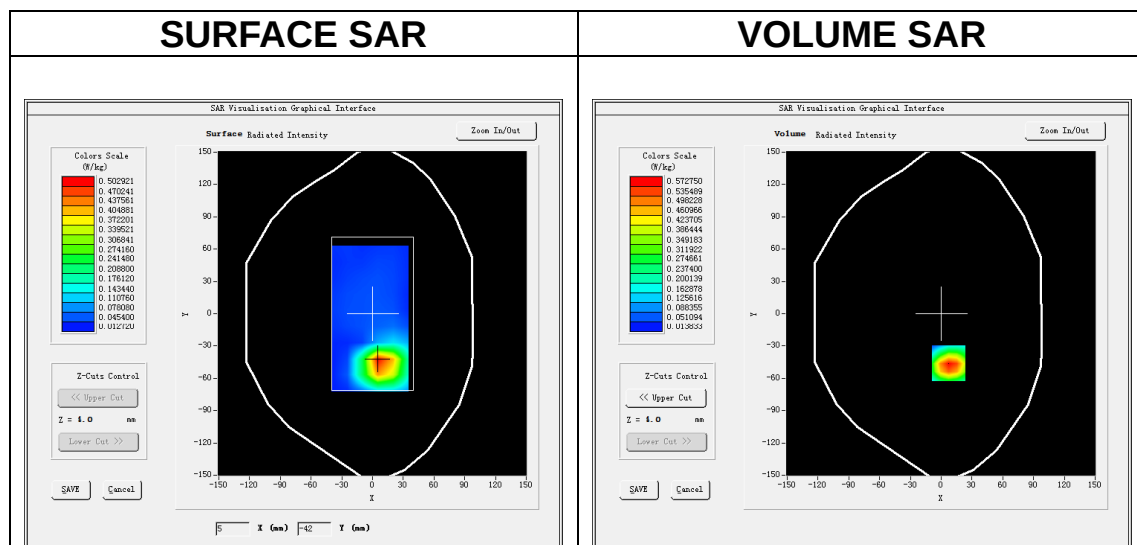
Date of measurement: 16/10/2024

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>Middle</u>
<u>Signal</u>	<u>TDMA (Crest factor: 8.0)</u>
<u>ConvF</u>	<u>2.57</u>

B. SAR Measurement Results

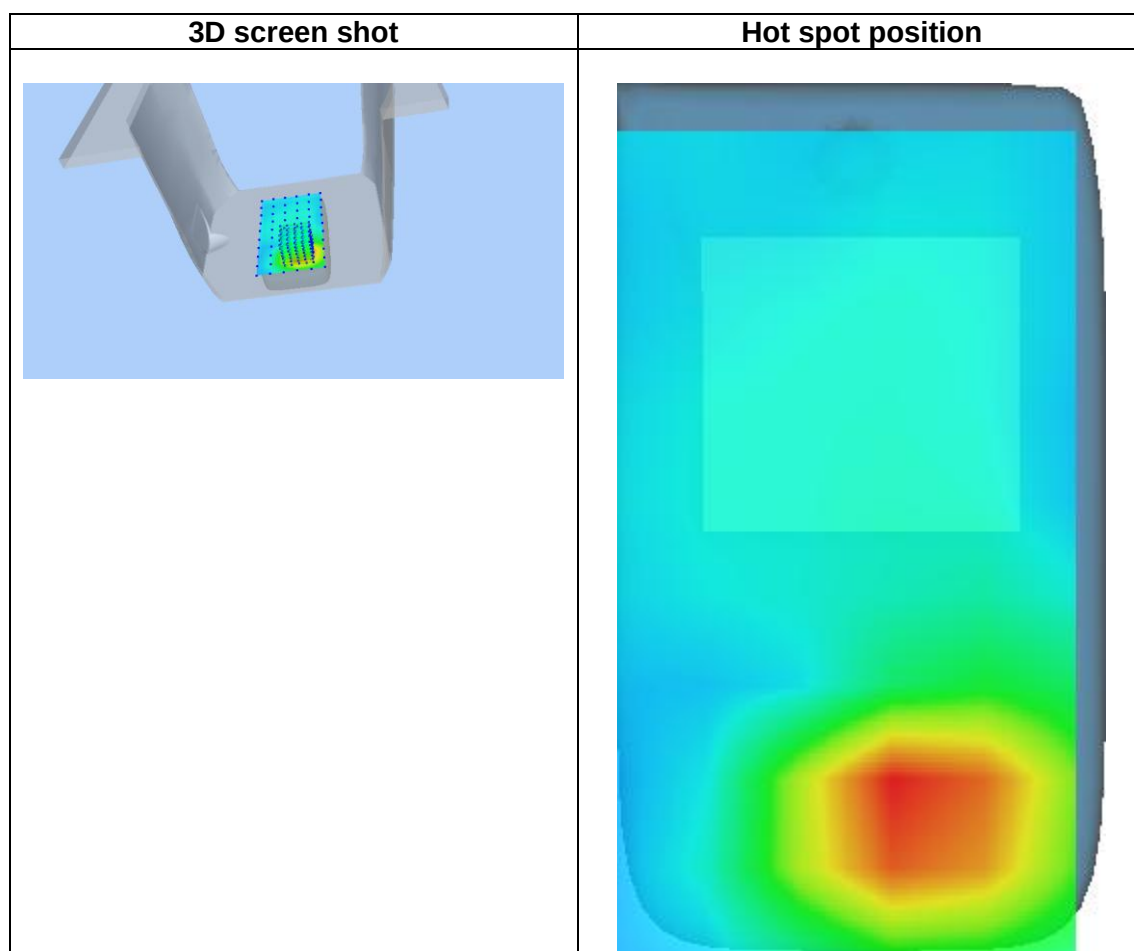
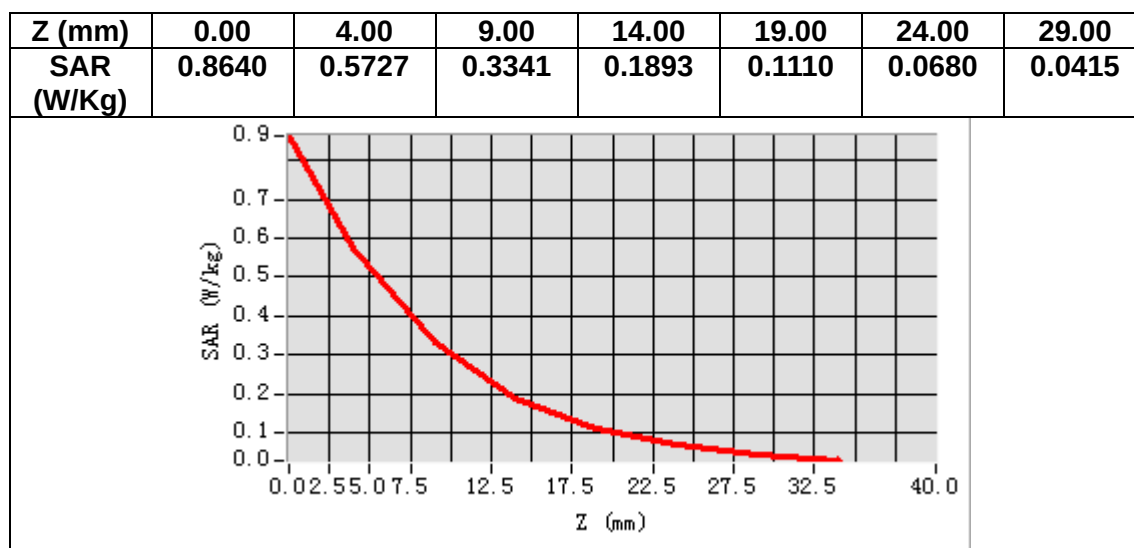
Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.657154
Relative permittivity (imaginary part)	13.872347
Conductivity (S/m)	1.448890
Variation (%)	-0.130000



Maximum location: X=7.00, Y=-46.00

SAR Peak: 0.88 W/kg

SAR 10g (W/Kg)	0.292876
SAR 1g (W/Kg)	0.561224



MEASUREMENT 5

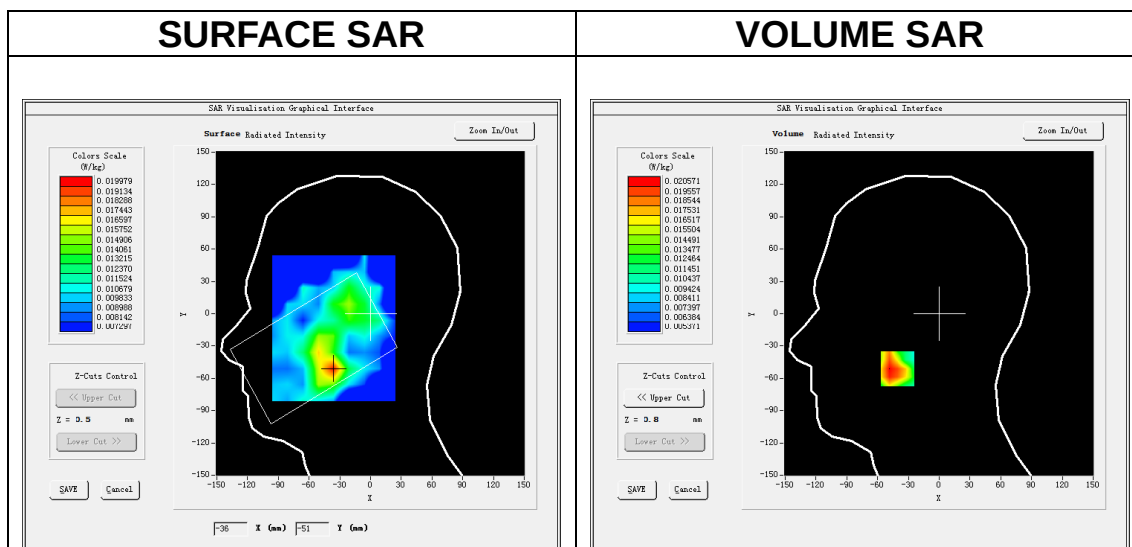
Date of measurement: 16/10/2024

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>2.57</u>

B. SAR Measurement Results

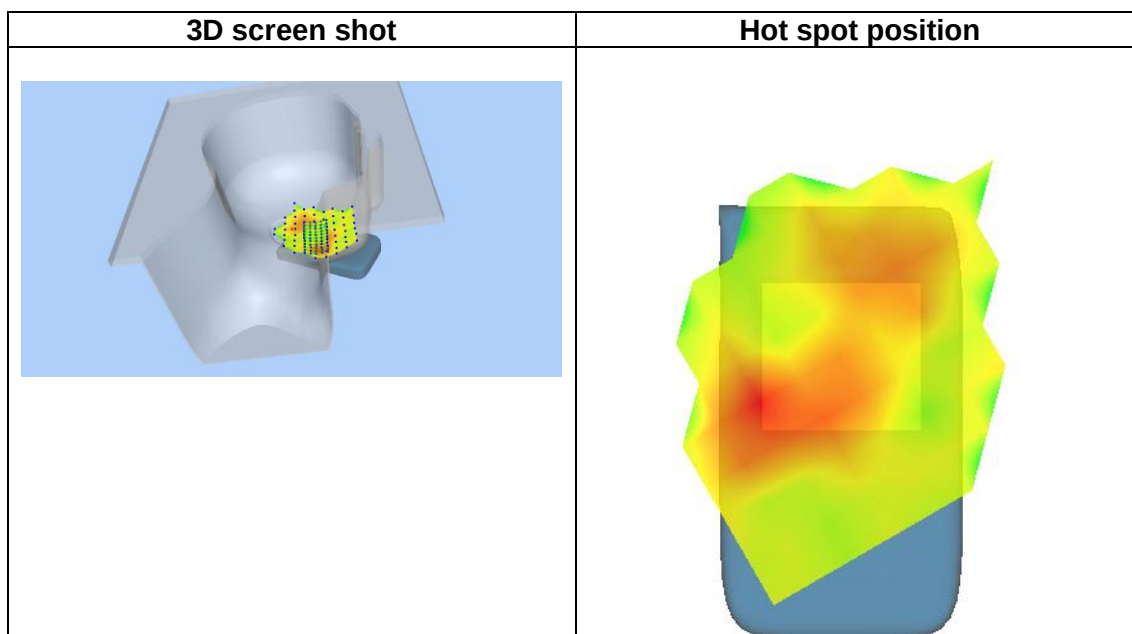
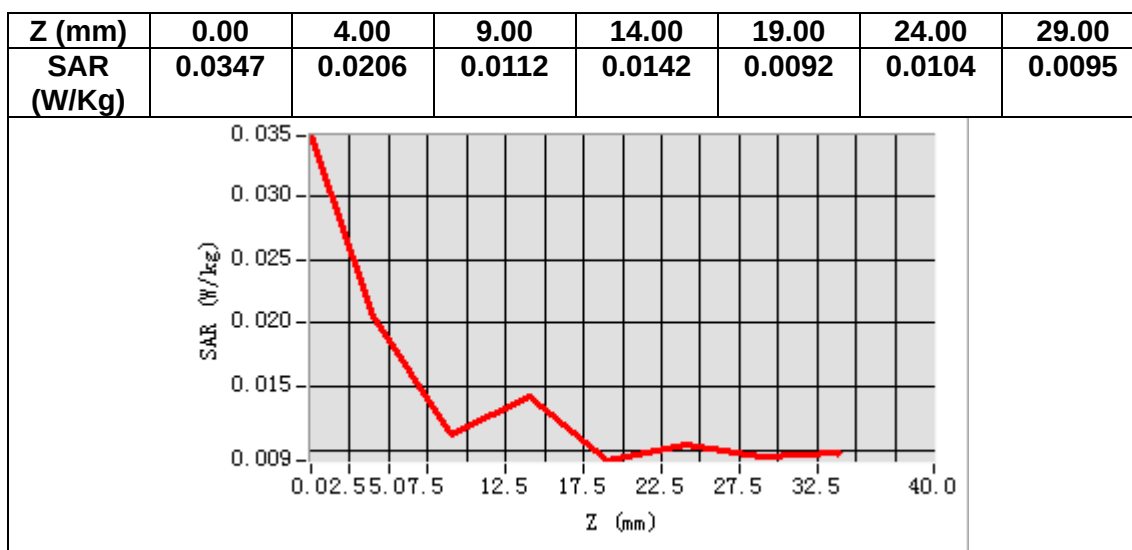
Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.657154
Relative permittivity (imaginary part)	13.872347
Conductivity (S/m)	1.448890
Variation (%)	2.840000



Maximum location: X=-37.00, Y=-51.00

SAR Peak: 0.03 W/kg

SAR 10g (W/Kg)	0.015037
SAR 1g (W/Kg)	0.020518



MEASUREMENT 6

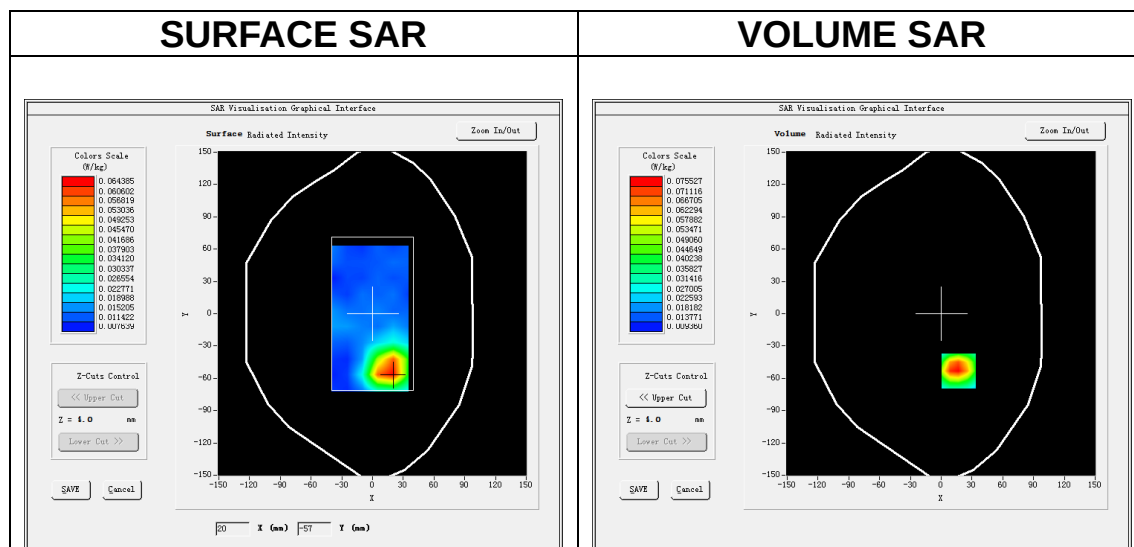
Date of measurement: 16/10/2024

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>2.57</u>

B. SAR Measurement Results

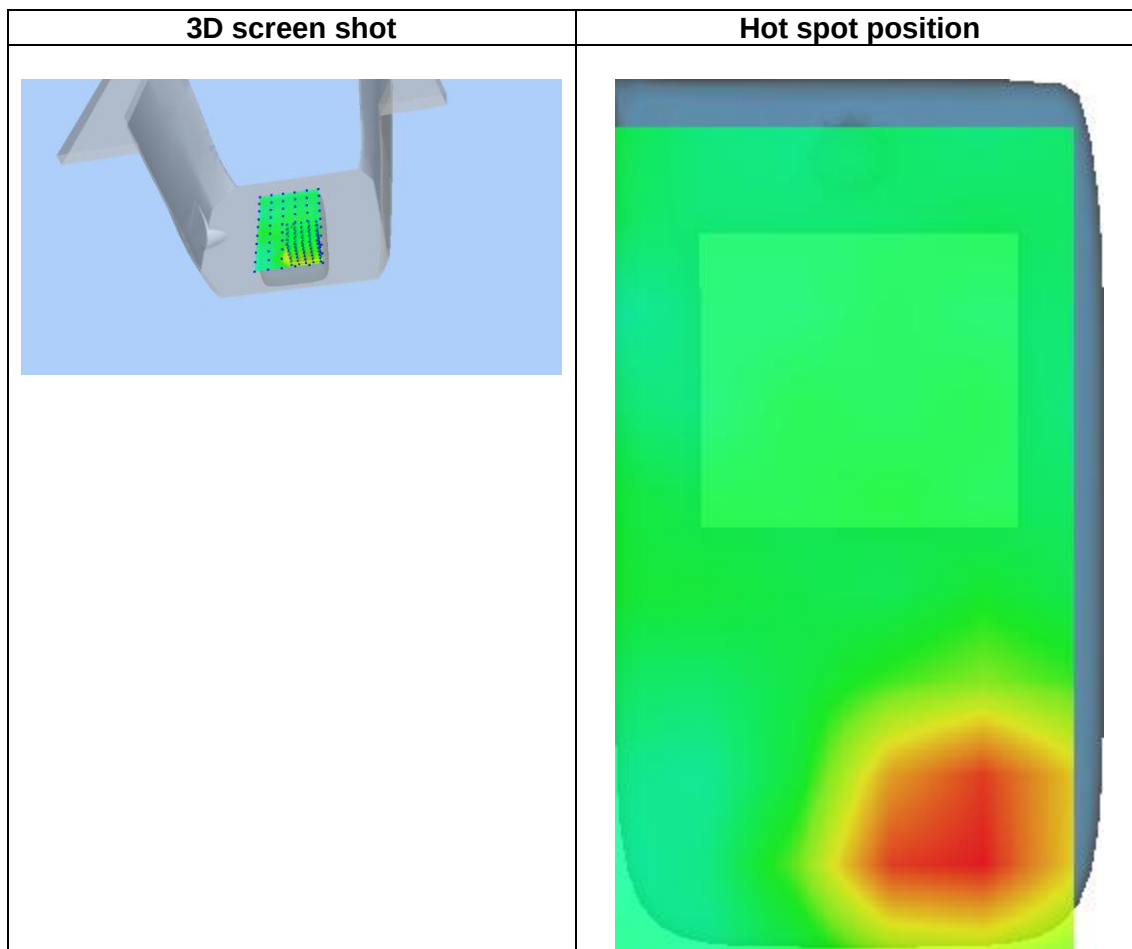
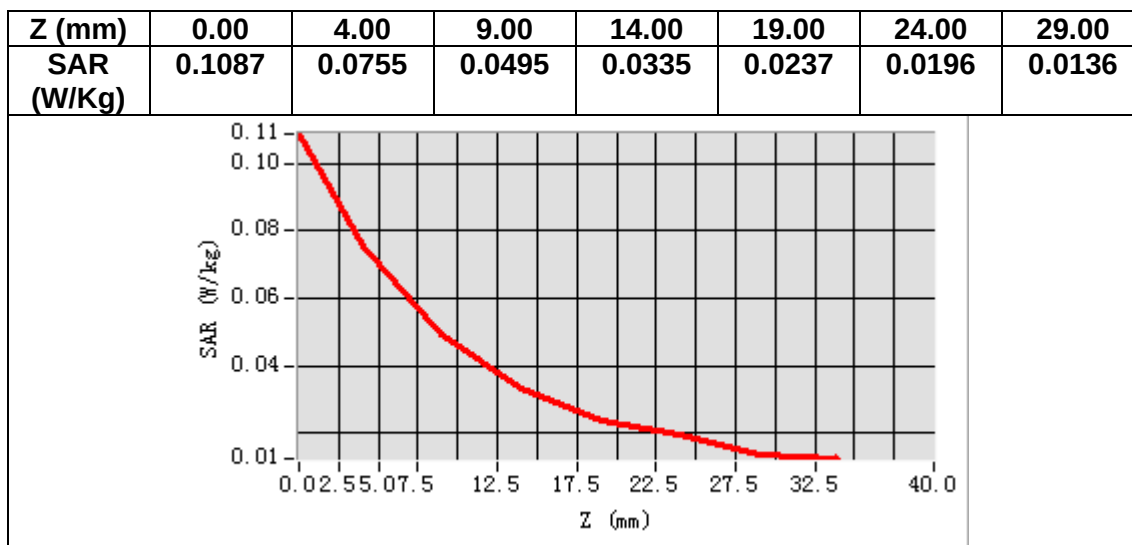
Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.657154
Relative permittivity (imaginary part)	13.872347
Conductivity (S/m)	1.448890
Variation (%)	0.220000



Maximum location: X=17.00, Y=-53.00

SAR Peak: 0.11 W/kg

SAR 10g (W/Kg)	0.043796
SAR 1g (W/Kg)	0.075535



MEASUREMENT 7

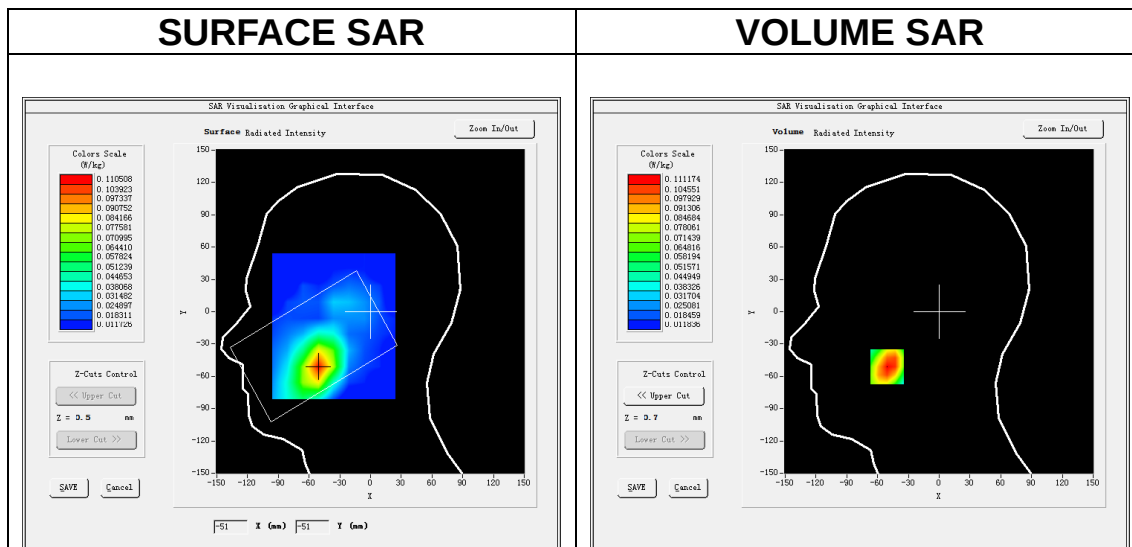
Date of measurement: 22/10/2024

A. Experimental conditions.

Area Scan	dx=15mm dy=15mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	Band4 WCDMA1700
Channels	Middle
Signal	WCDMA (Crest factor: 1.0)
ConvF	2.51

B. SAR Measurement Results

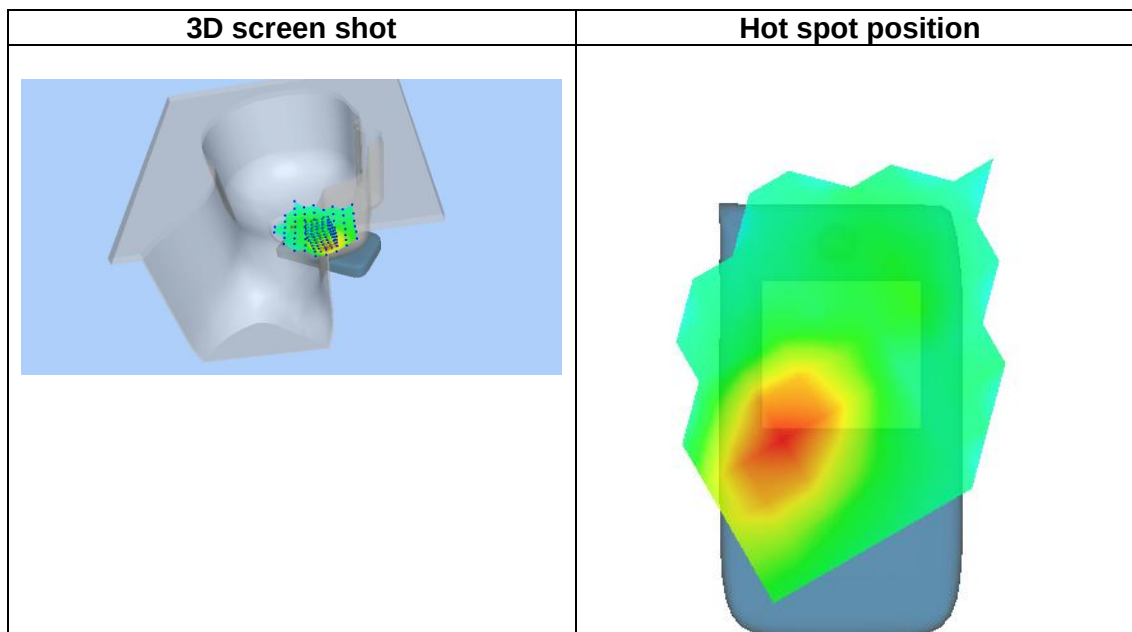
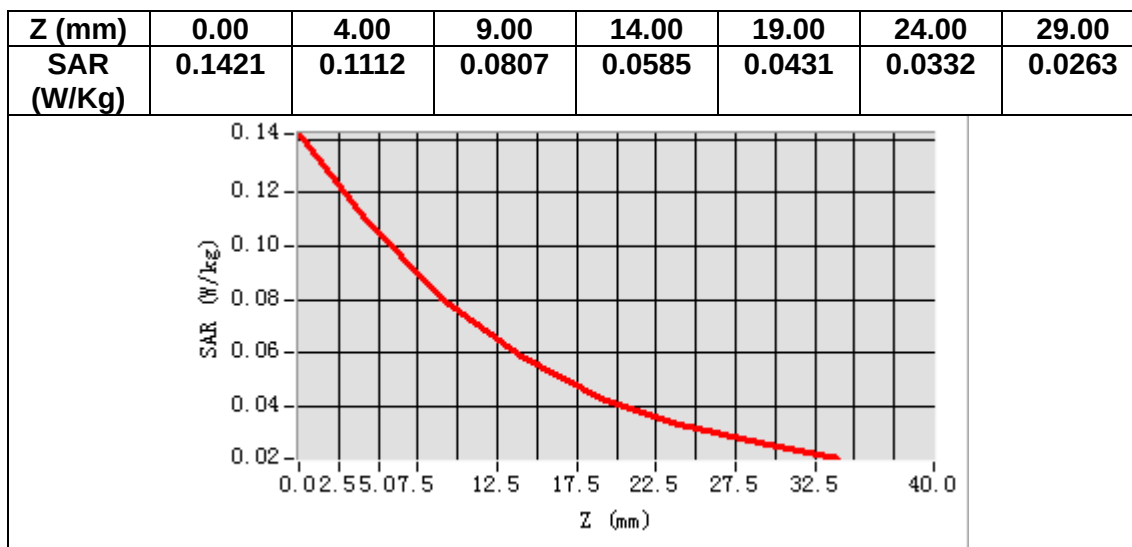
Frequency (MHz)	1732.600000
Relative permittivity (real part)	39.715107
Relative permittivity (imaginary part)	13.637889
Conductivity (S/m)	1.312268
Variation (%)	0.530000



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

SAR Peak: 0.16 W/kg

SAR 10g (W/Kg)	0.069388
SAR 1g (W/Kg)	0.107229



MEASUREMENT 8

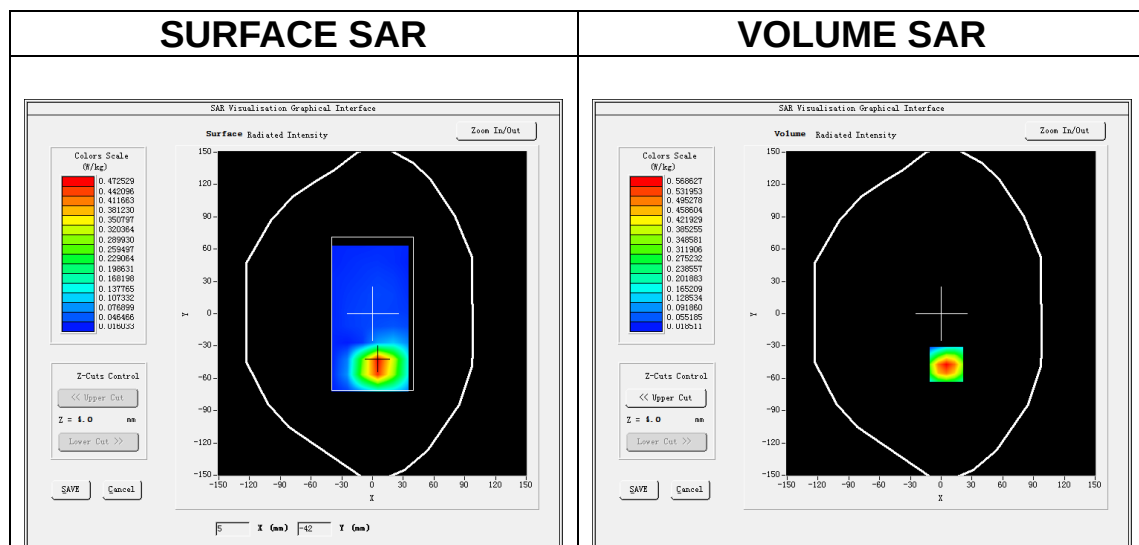
Date of measurement: 22/10/2024

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>2.51</u>

B. SAR Measurement Results

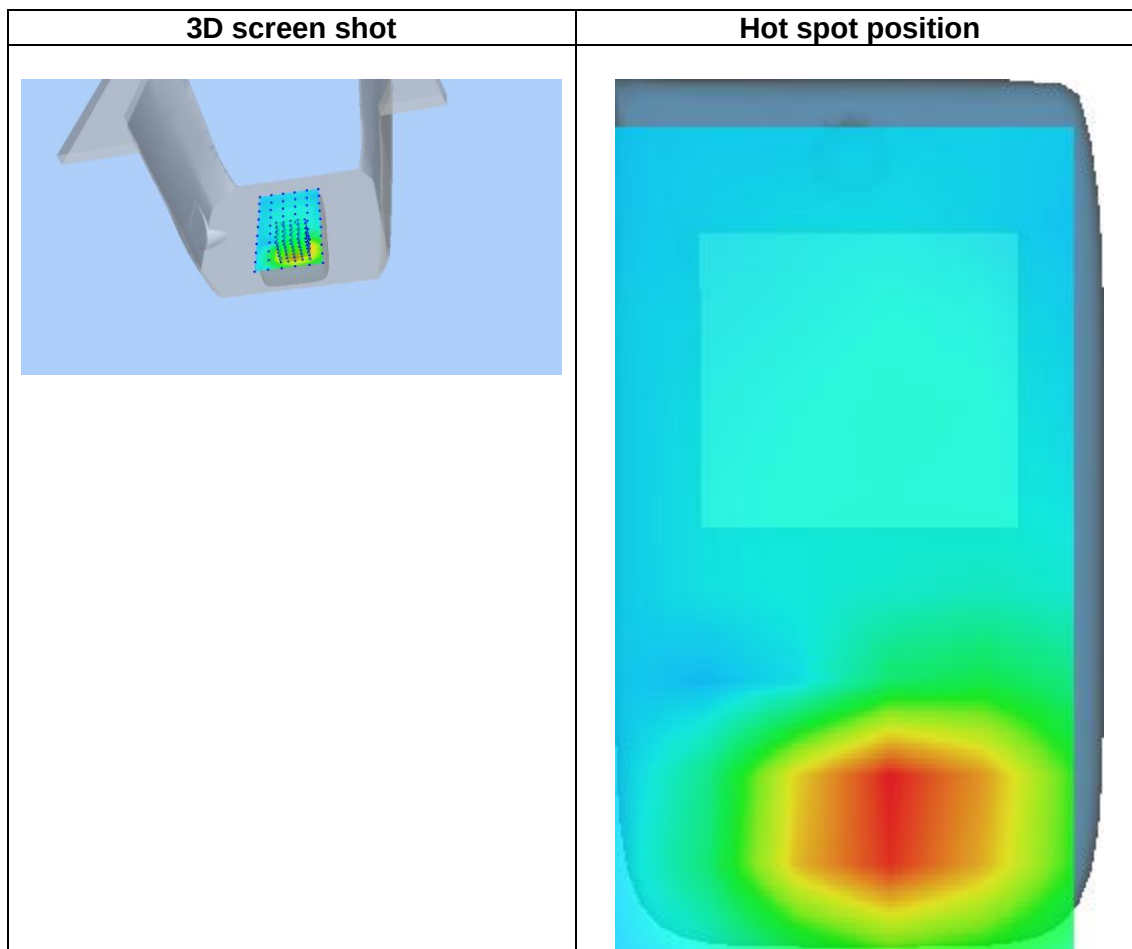
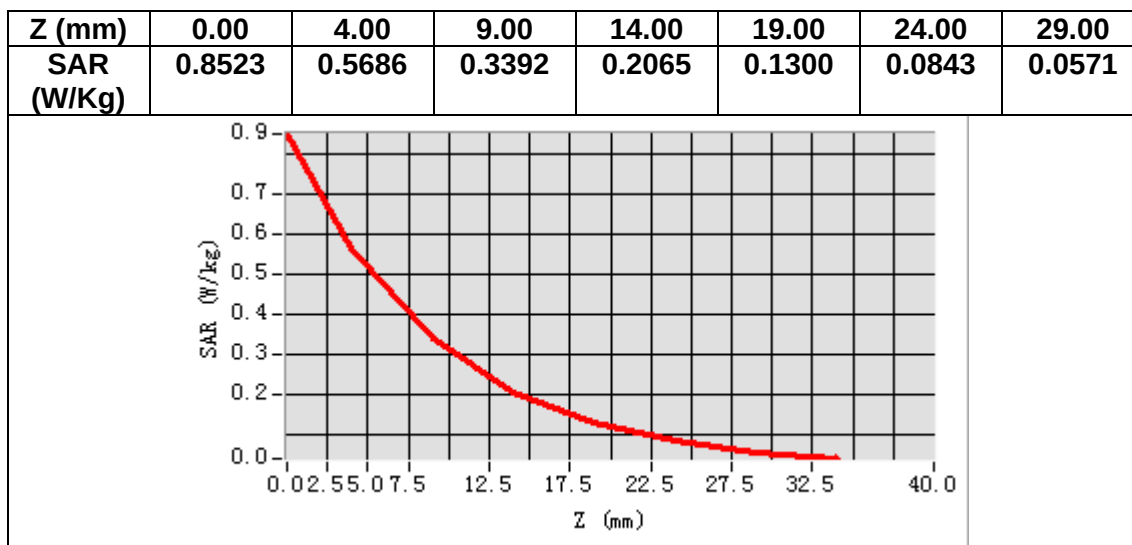
Frequency (MHz)	1732.600000
Relative permittivity (real part)	39.715107
Relative permittivity (imaginary part)	13.637889
Conductivity (S/m)	1.312268
Variation (%)	-0.140000



Maximum location: X=5.00, Y=-47.00

SAR Peak: 0.86 W/kg

SAR 10g (W/Kg)	0.293369
SAR 1g (W/Kg)	0.538912



MEASUREMENT 9

Date of measurement: 15/10/2024

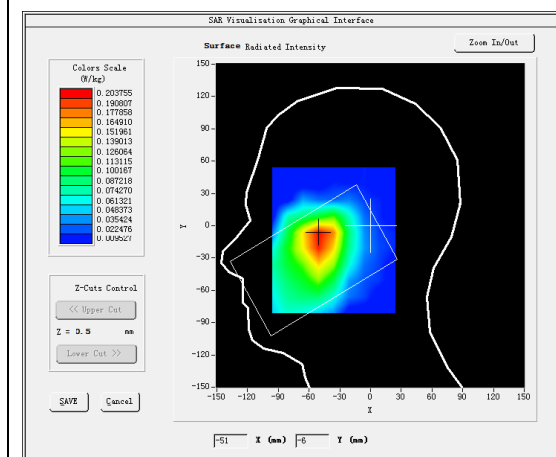
A. Experimental conditions.

Area Scan	dx=15mm dy=15mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	Band5 WCDMA850
Channels	Middle
Signal	WCDMA (Crest factor: 1.0)
ConvF	2.34

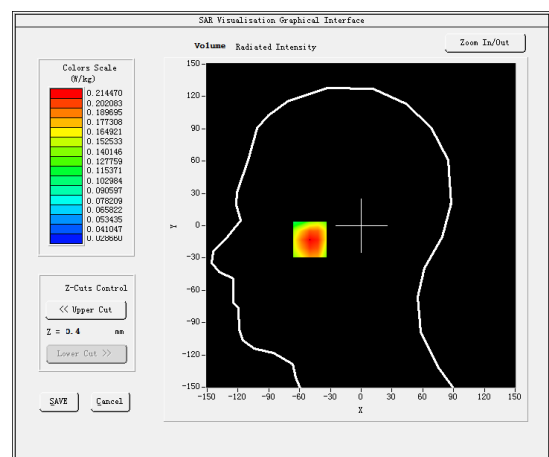
B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative permittivity (real part)	41.878227
Relative permittivity (imaginary part)	19.731071
Conductivity (S/m)	0.916837
Variation (%)	4.480000

SURFACE SAR



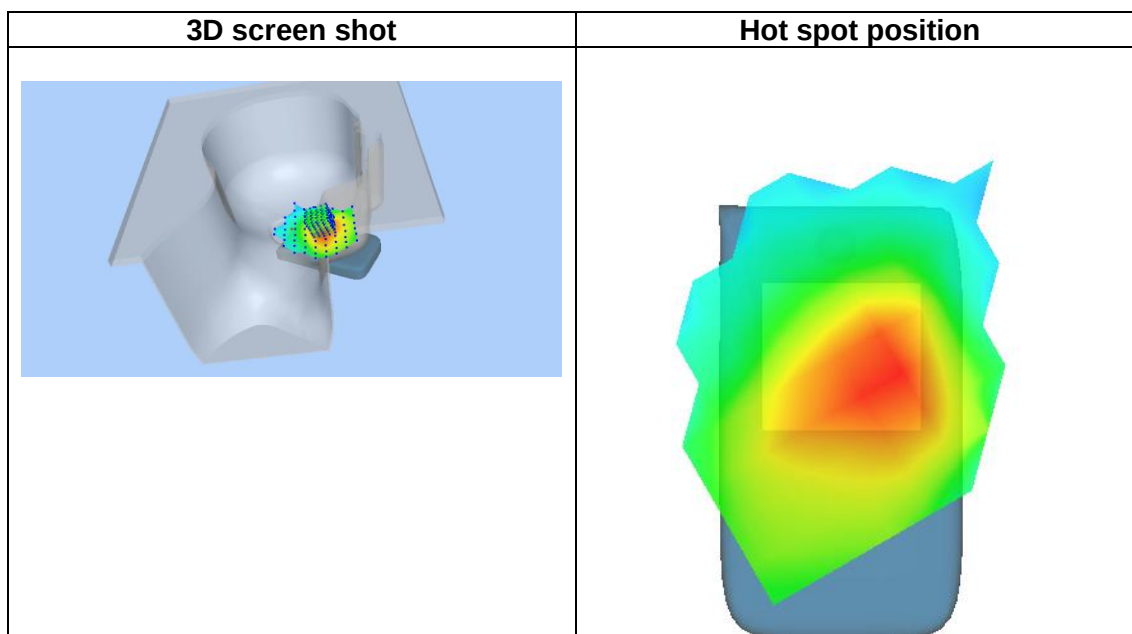
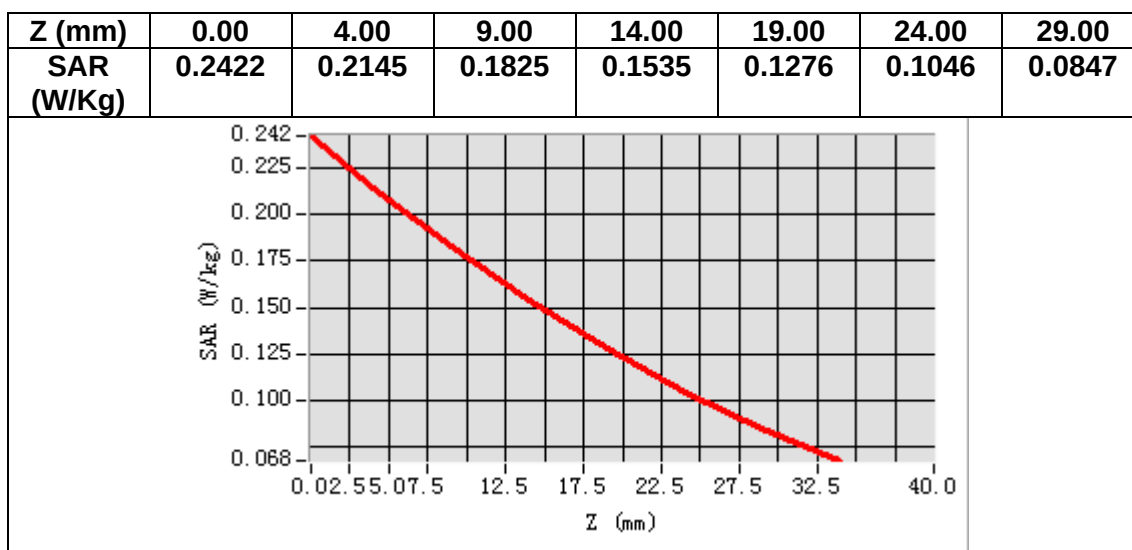
VOLUME SAR



Maximum location: X=-50.00, Y=-11.00

SAR Peak: 0.25 W/kg

SAR 10g (W/Kg)	0.164251
SAR 1g (W/Kg)	0.212257



MEASUREMENT 10

Date of measurement: 15/10/2024

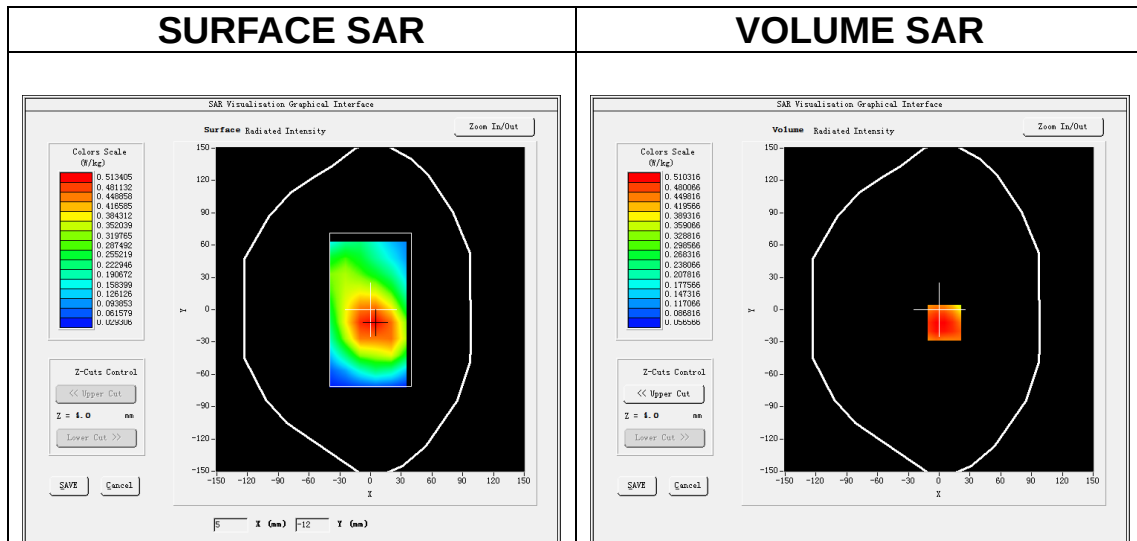
A. Experimental conditions.

<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>2.34</u>

B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative permittivity (real part)	41.878227
Relative permittivity (imaginary part)	19.731071
Conductivity (S/m)	0.916837
Variation (%)	-1.560000

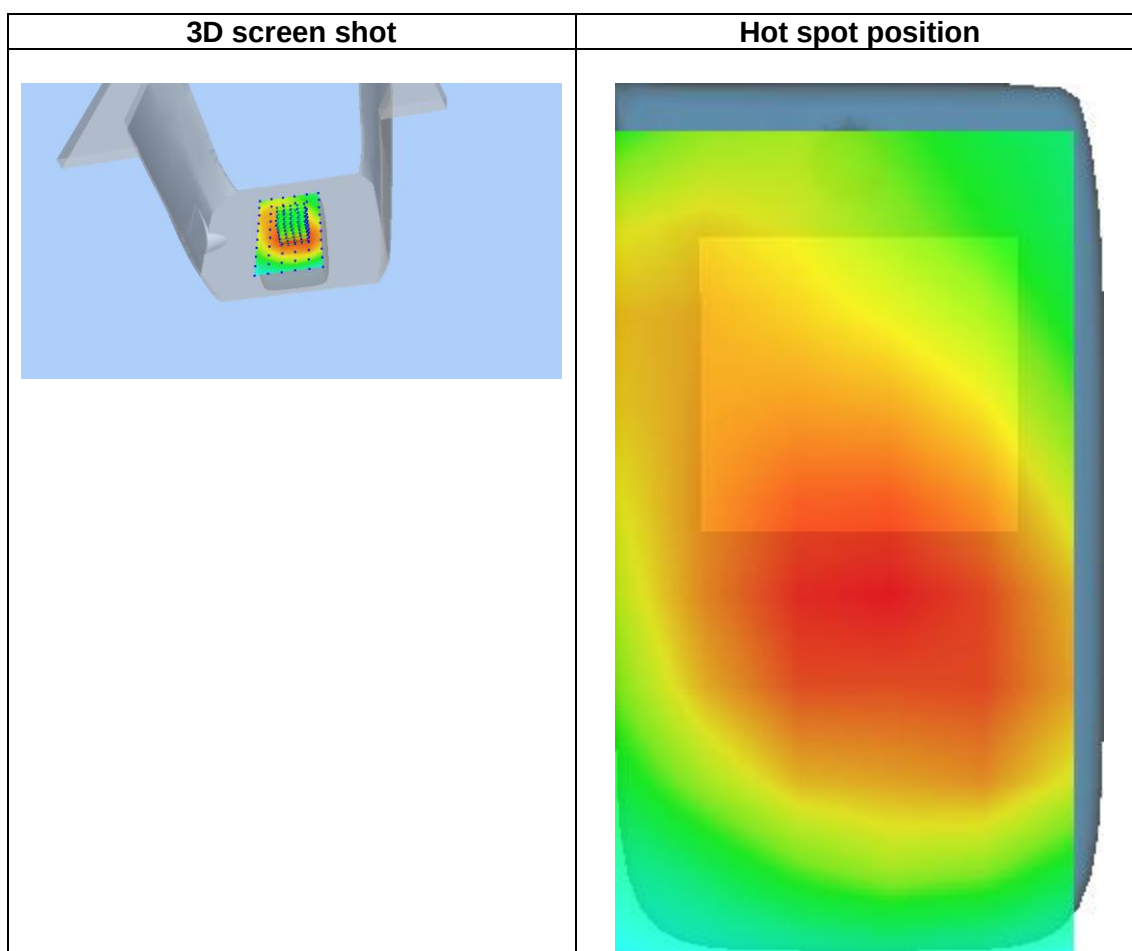
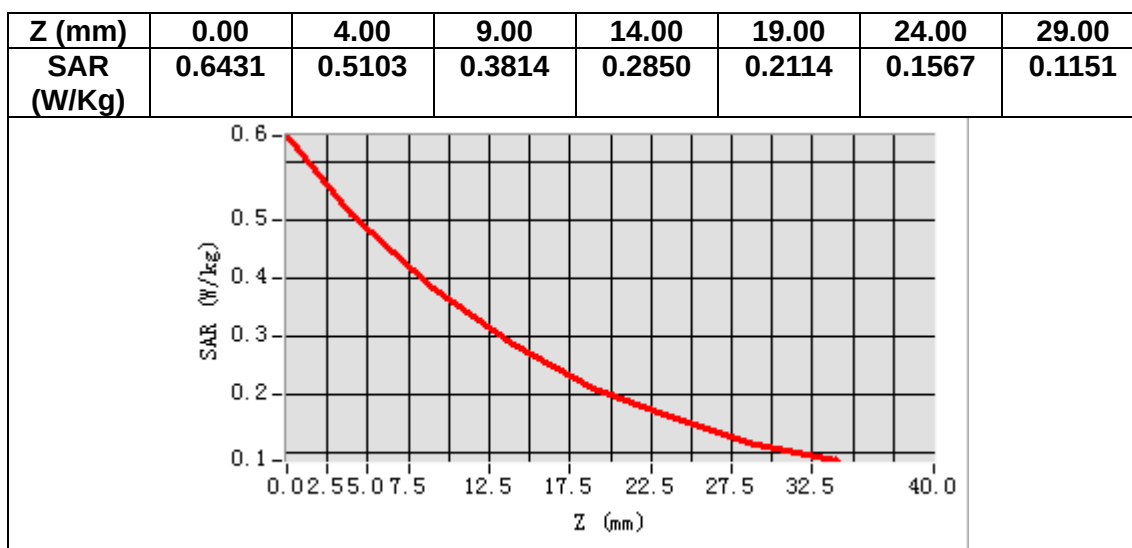
SURFACE SAR



Maximum location: X=5.00, Y=-12.00

SAR Peak: 0.66 W/kg

SAR 10g (W/Kg)	0.365543
SAR 1g (W/Kg)	0.505067



MEASUREMENT 11

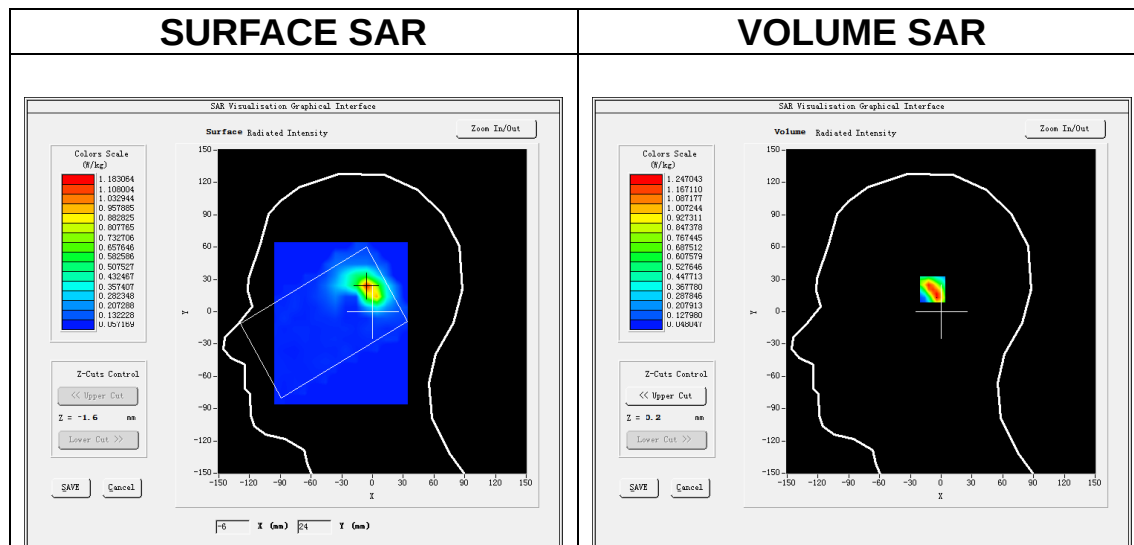
Date of measurement: 26/10/2024

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>Left head</u>
Device Position	<u>Cheek</u>
Band	<u>IEEE 802.11a U-NII</u>
Channels	<u>Middle</u>
Signal	<u>IEEE802.11a (Crest factor: 1.0)</u>
ConvF	<u>1.90</u>

B. SAR Measurement Results

Frequency (MHz)	5785.000000
Relative permittivity (real part)	35.597076
Relative permittivity (imaginary part)	16.004795
Conductivity (S/m)	5.108197
Variation (%)	2.720000

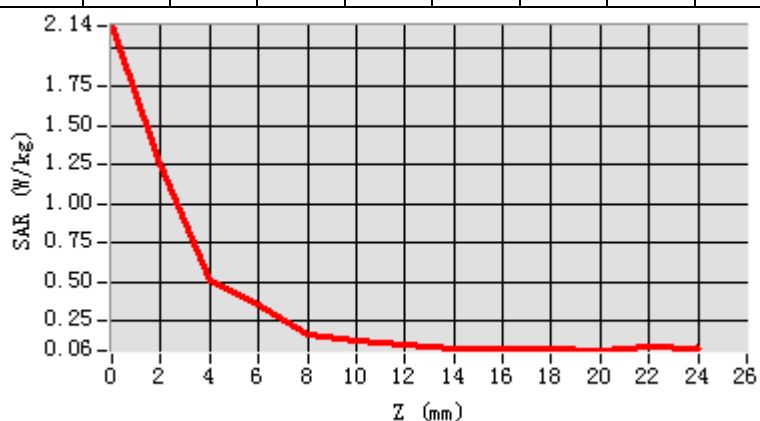


Maximum location: X=-5.00, Y=23.00

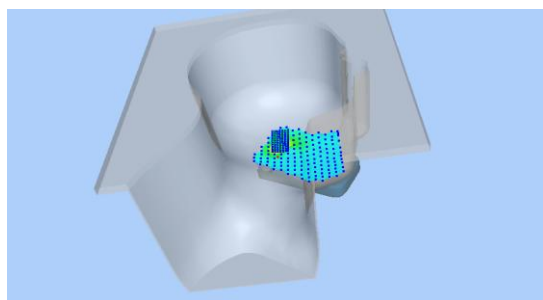
SAR Peak: 3.34 W/kg

SAR 10g (W/Kg)	0.372179
SAR 1g (W/Kg)	0.921756

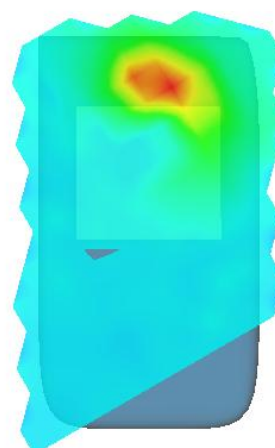
Z (m m)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
SAR (W/ Kg)	2.13 67	1.24 70	0.51 06	0.35 15	0.15 55	0.12 33	0.10 03	0.07 20	0.06 73	0.06 71	0.05 84	0.08 57



3D screen shot



Hot spot position



MEASUREMENT 12

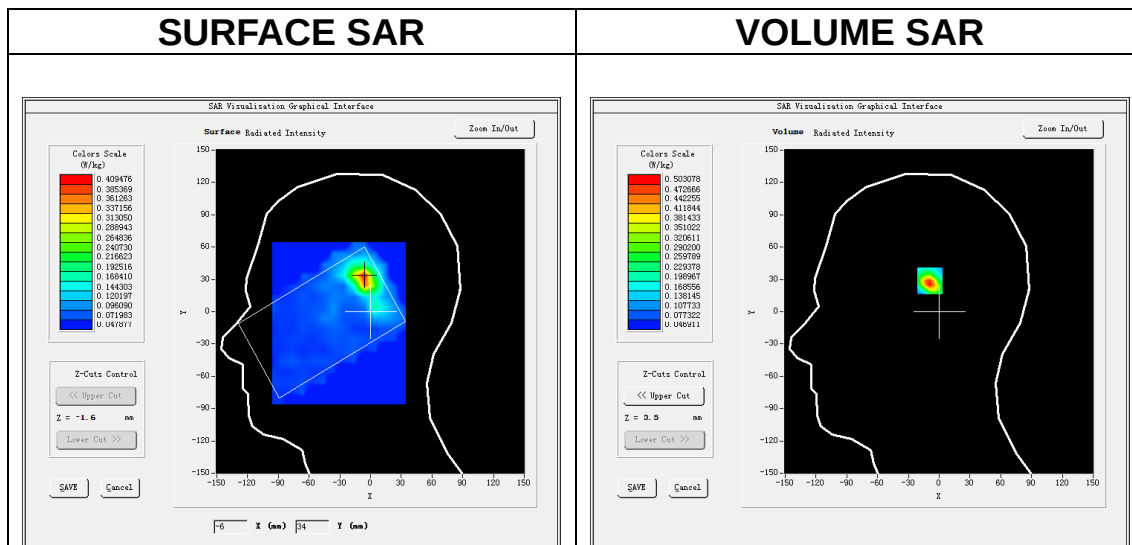
Date of measurement: 24/10/2024

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>1.89</u>

B. SAR Measurement Results

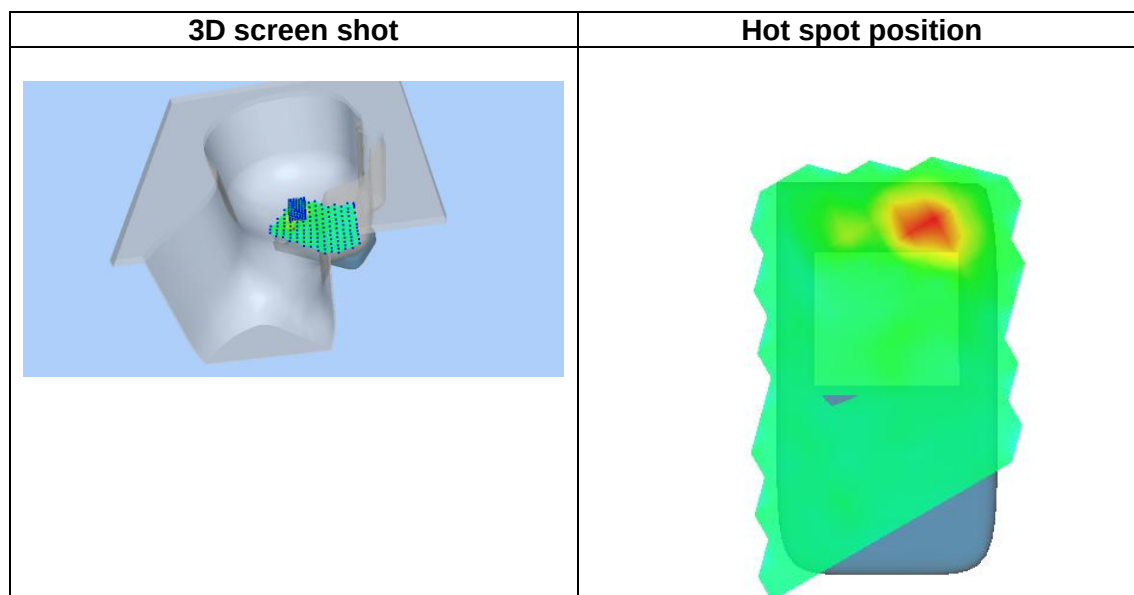
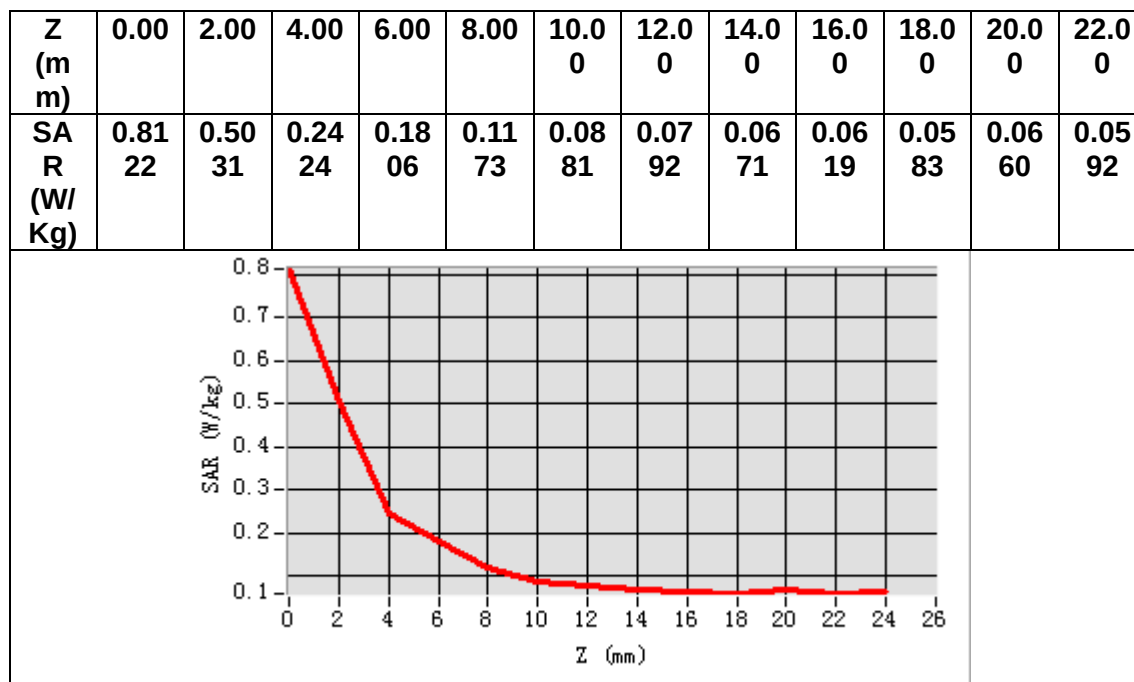
Frequency (MHz)	5200.000000
Relative permittivity (real part)	36.619694
Relative permittivity (imaginary part)	15.632473
Conductivity (S/m)	4.516048
Variation (%)	1.790000



Maximum location: X=-7.00, Y=32.00

SAR Peak: 1.22 W/kg

SAR 10g (W/Kg)	0.185922
SAR 1g (W/Kg)	0.468717



MEASUREMENT 13

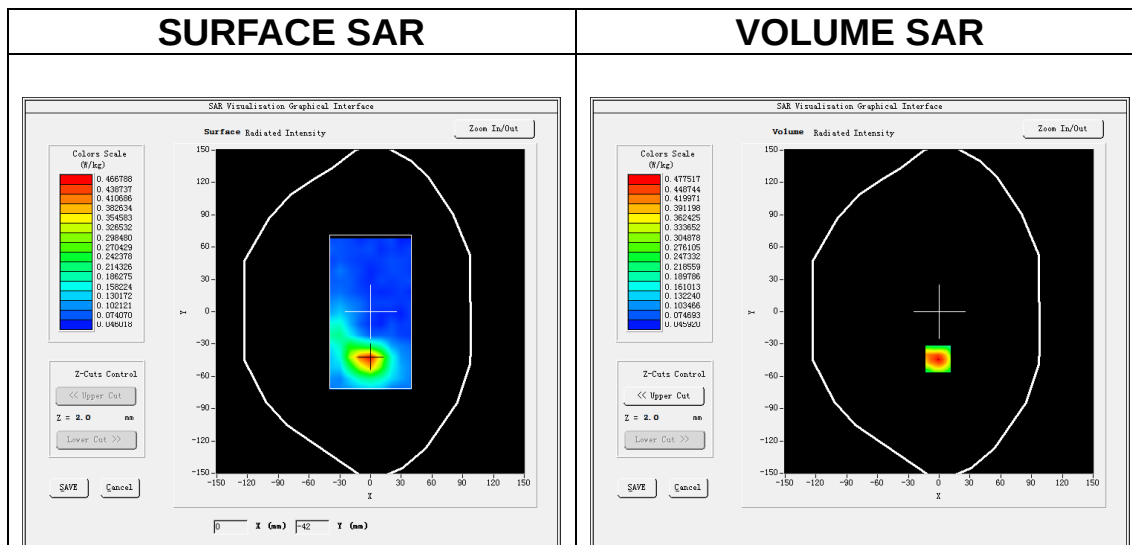
Date of measurement: 26/10/2024

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>	<u>1.90</u>

B. SAR Measurement Results

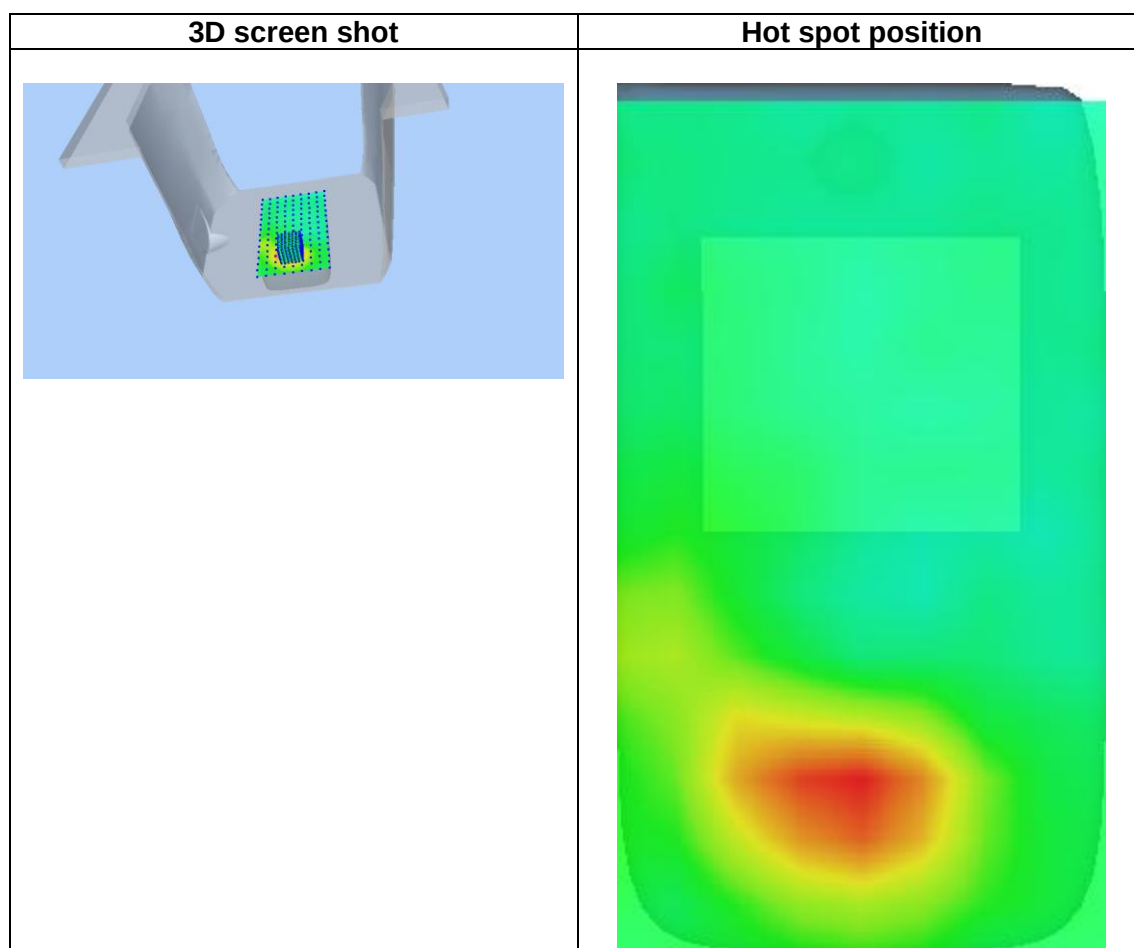
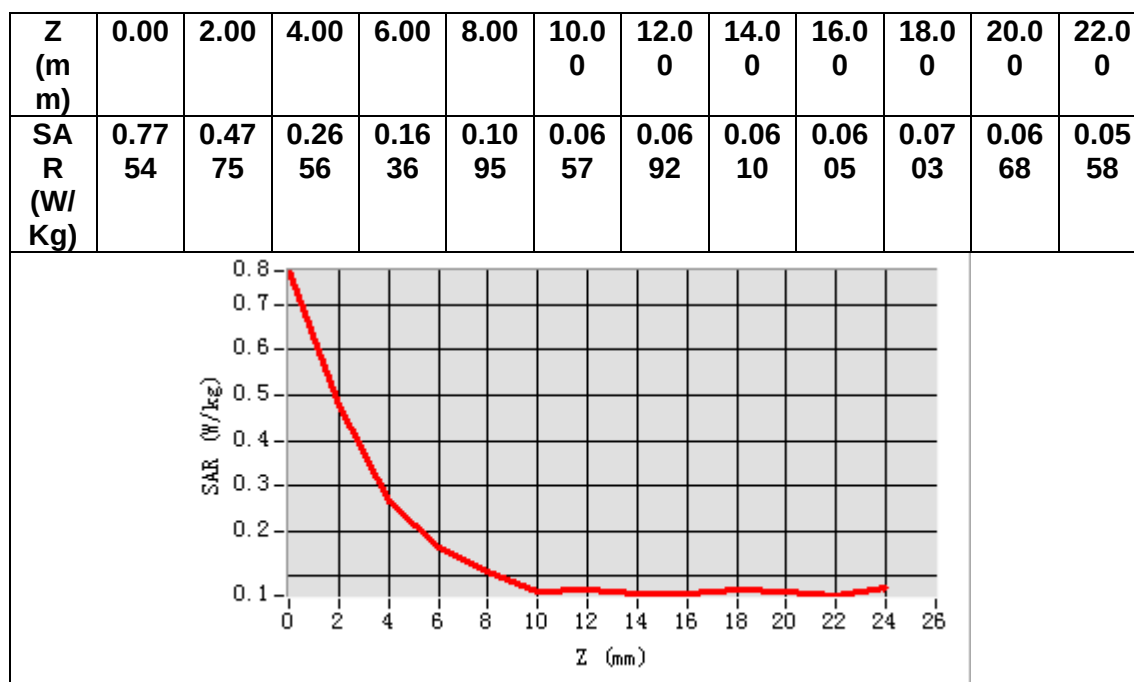
Frequency (MHz)	5785.000000
Relative permittivity (real part)	35.542805
Relative permittivity (imaginary part)	15.840995
Conductivity (S/m)	5.091120
Variation (%)	3.680000



Maximum location: X=-1.00, Y=-44.00

SAR Peak: 0.81 W/kg

SAR 10g (W/Kg)	0.152535
SAR 1g (W/Kg)	0.295652



MEASUREMENT 14

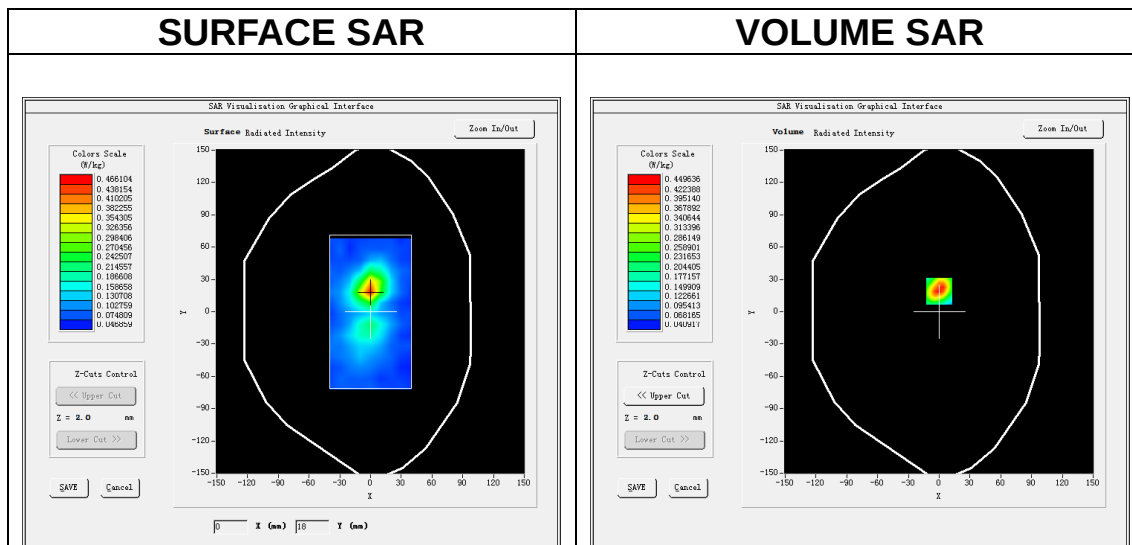
Date of measurement: 24/10/2024

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>	<u>1.89</u>

B. SAR Measurement Results

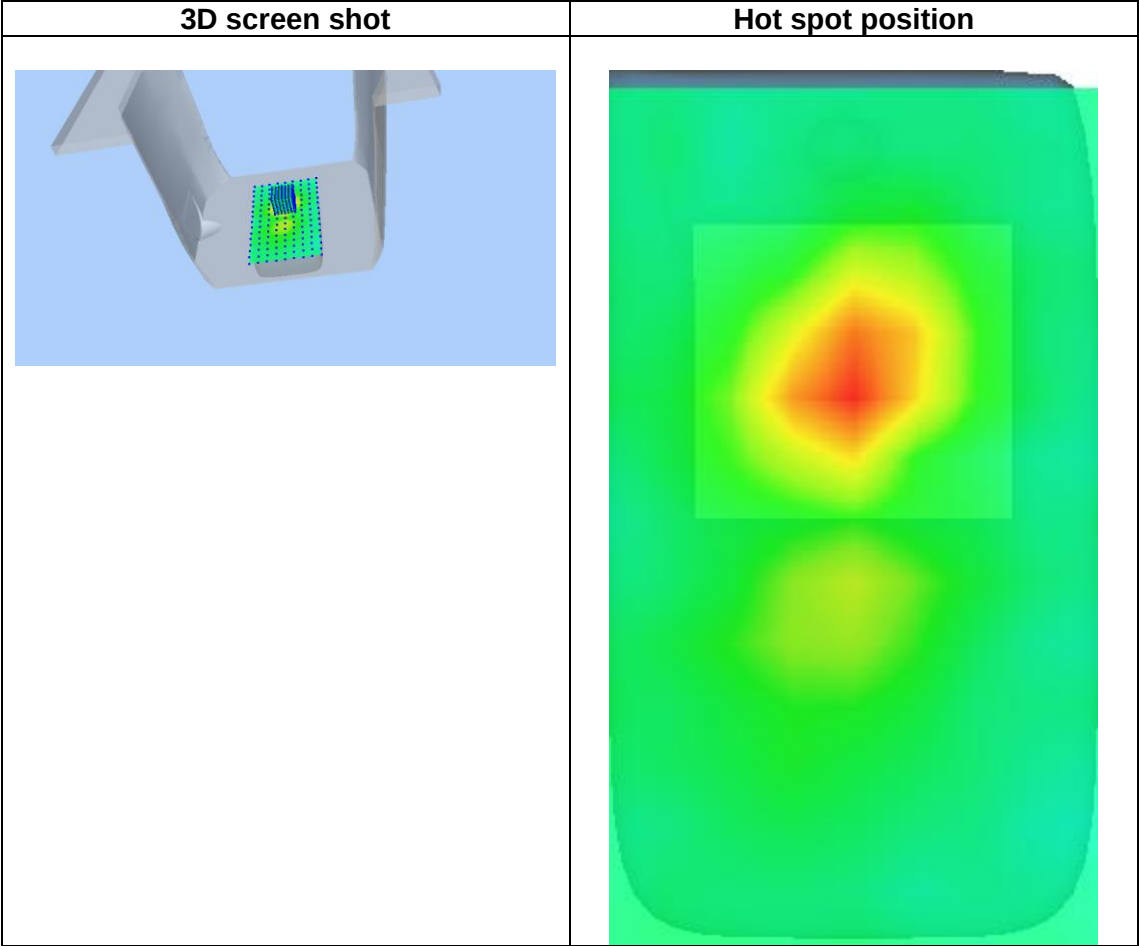
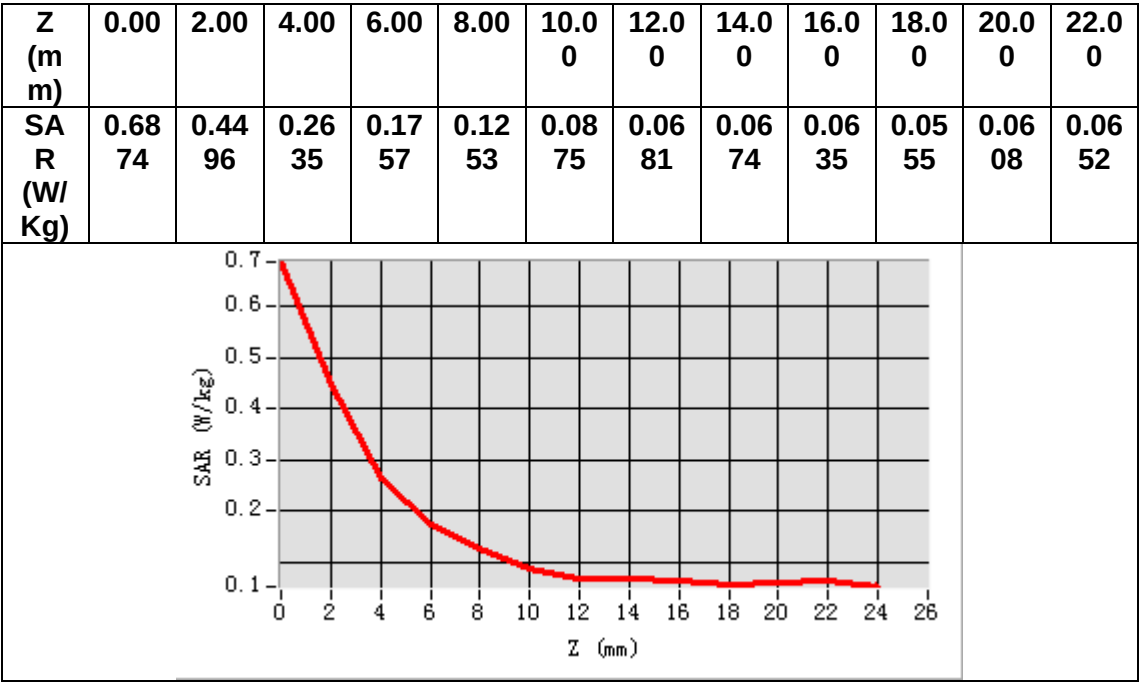
Frequency (MHz)	5200.000000
Relative permittivity (real part)	36.619694
Relative permittivity (imaginary part)	15.632473
Conductivity (S/m)	4.516048
Variation (%)	-1.290000



Maximum location: X=0.00, Y=19.00

SAR Peak: 0.71 W/kg

SAR 10g (W/Kg)	0.139407
SAR 1g (W/Kg)	0.280178



MEASUREMENT 15

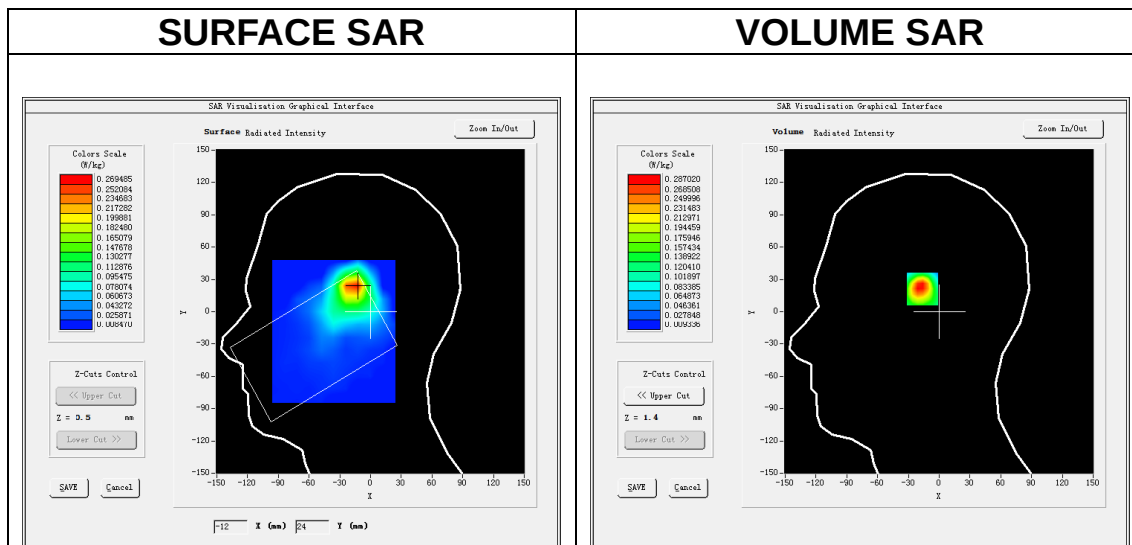
Date of measurement: 23/10/2024

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>Middle</u>
<u>Signal</u>	<u>IEEE802.11b (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.74</u>

B. SAR Measurement Results

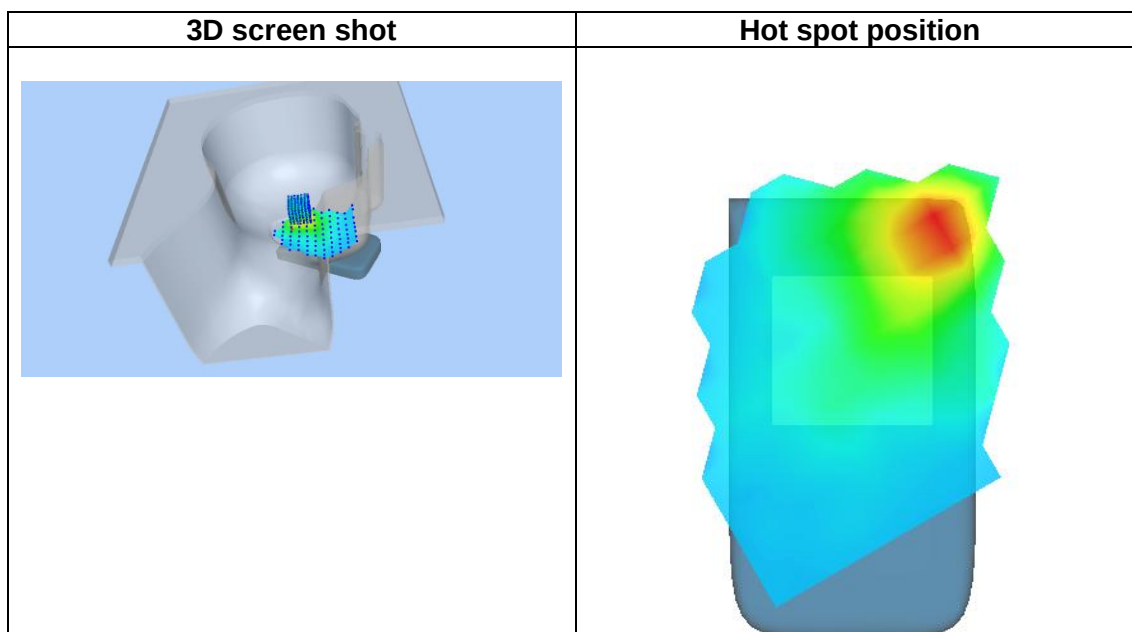
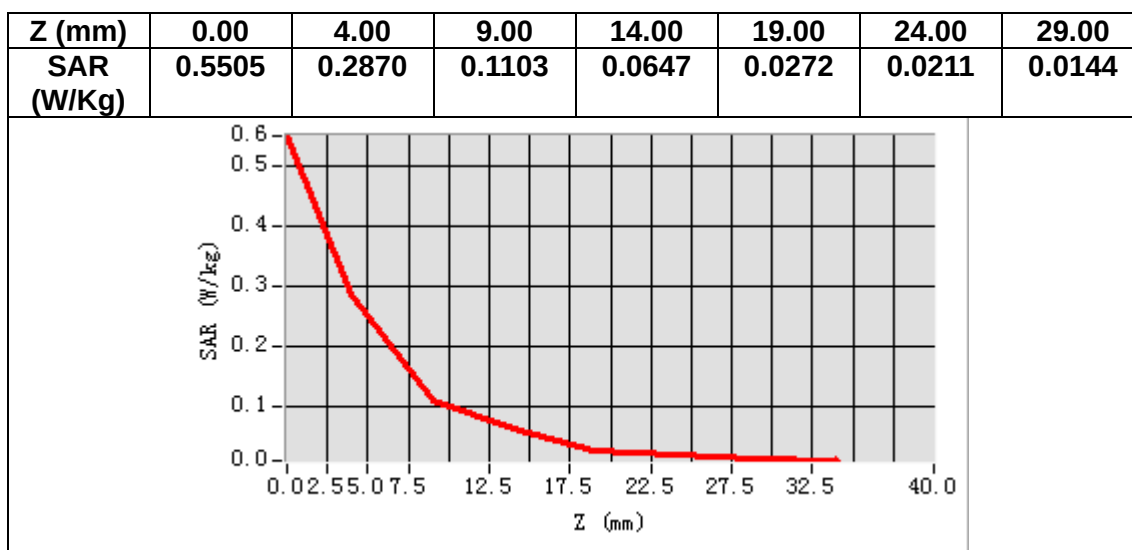
Frequency (MHz)	2437.000000
Relative permittivity (real part)	39.887970
Relative permittivity (imaginary part)	13.105033
Conductivity (S/m)	1.774276
Variation (%)	2.360000



Maximum location: X=-15.00, Y=23.00

SAR Peak: 0.52 W/kg

SAR 10g (W/Kg)	0.124888
SAR 1g (W/Kg)	0.274603



MEASUREMENT 16

Date of measurement: 23/10/2024

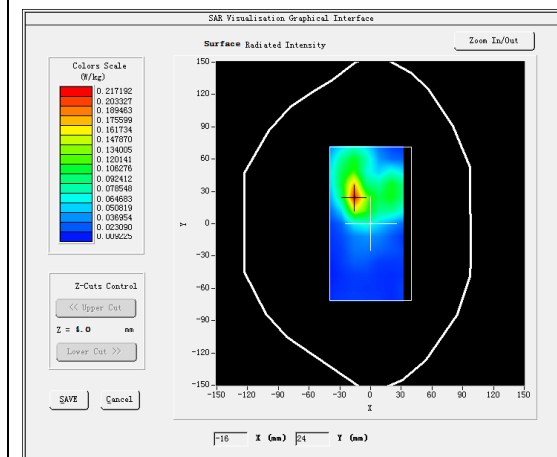
A. Experimental conditions.

<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>Middle</u>
<u>Signal</u>	<u>IEEE802.11b (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.74</u>

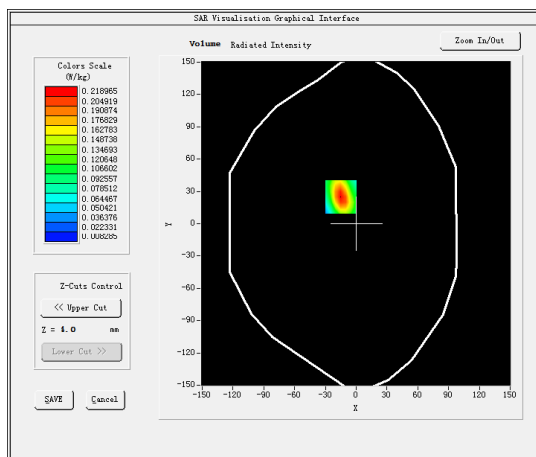
B. SAR Measurement Results

Frequency (MHz)	2437.000000
Relative permittivity (real part)	39.887970
Relative permittivity (imaginary part)	13.105033
Conductivity (S/m)	1.774276
Variation (%)	1.340000

SURFACE SAR



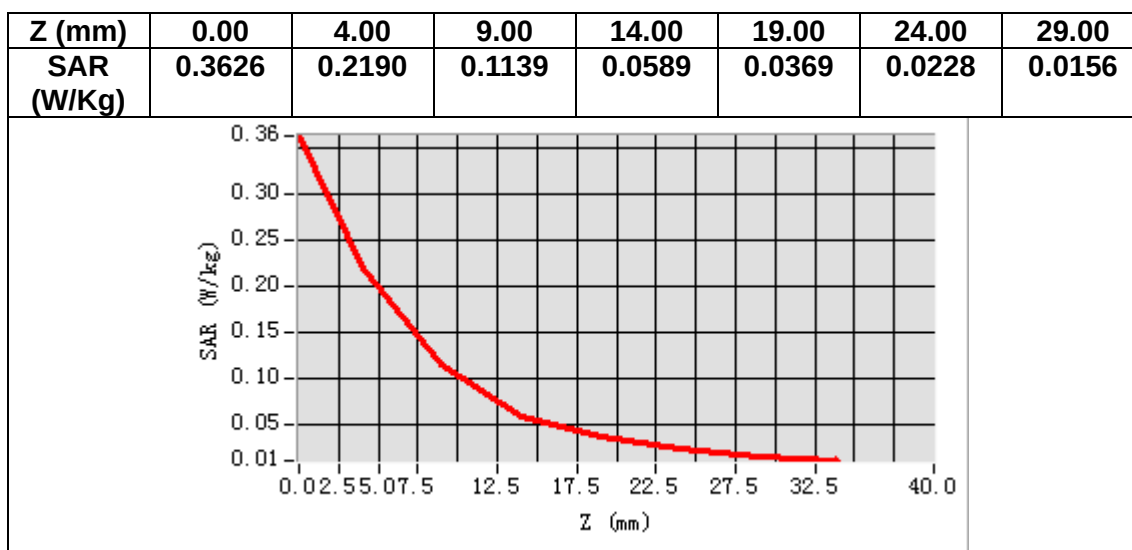
VOLUME SAR



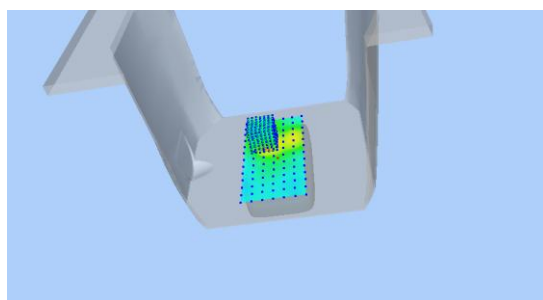
Maximum location: X=-15.00, Y=25.00

SAR Peak: 0.36 W/kg

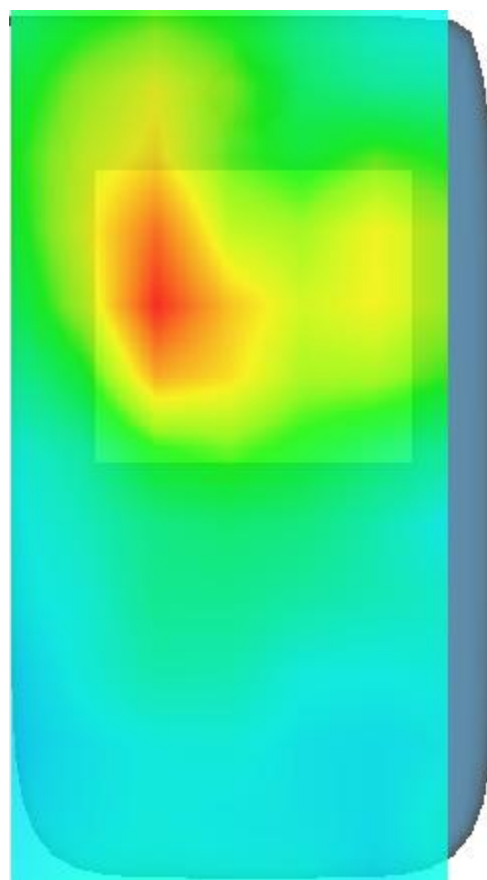
SAR 10g (W/Kg)	0.100846
SAR 1g (W/Kg)	0.202619



3D screen shot



Hot spot position



MEASUREMENT 17

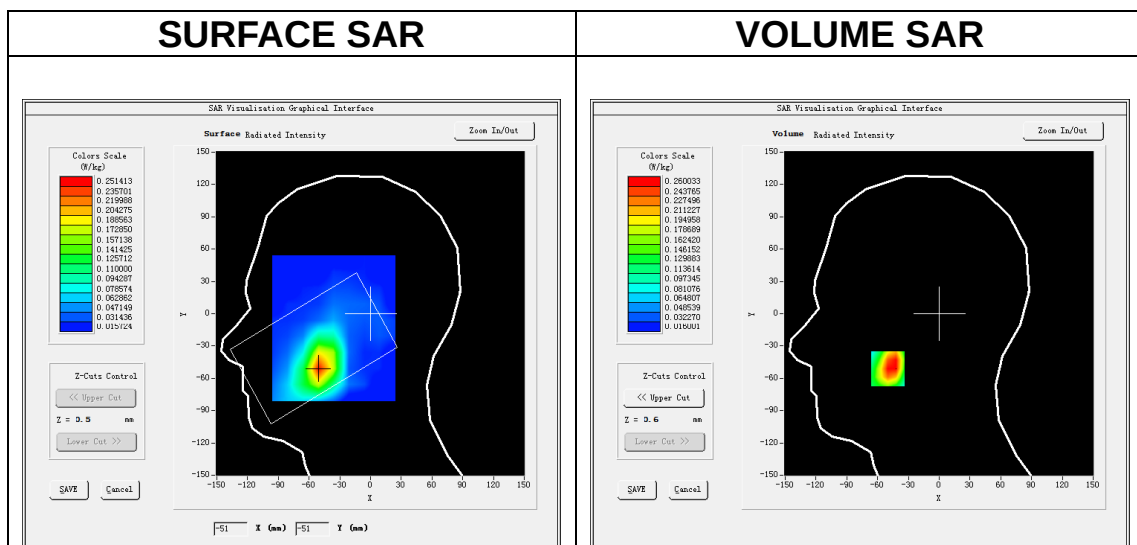
Date of measurement: 16/10/2024

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>2.57</u>

B. SAR Measurement Results

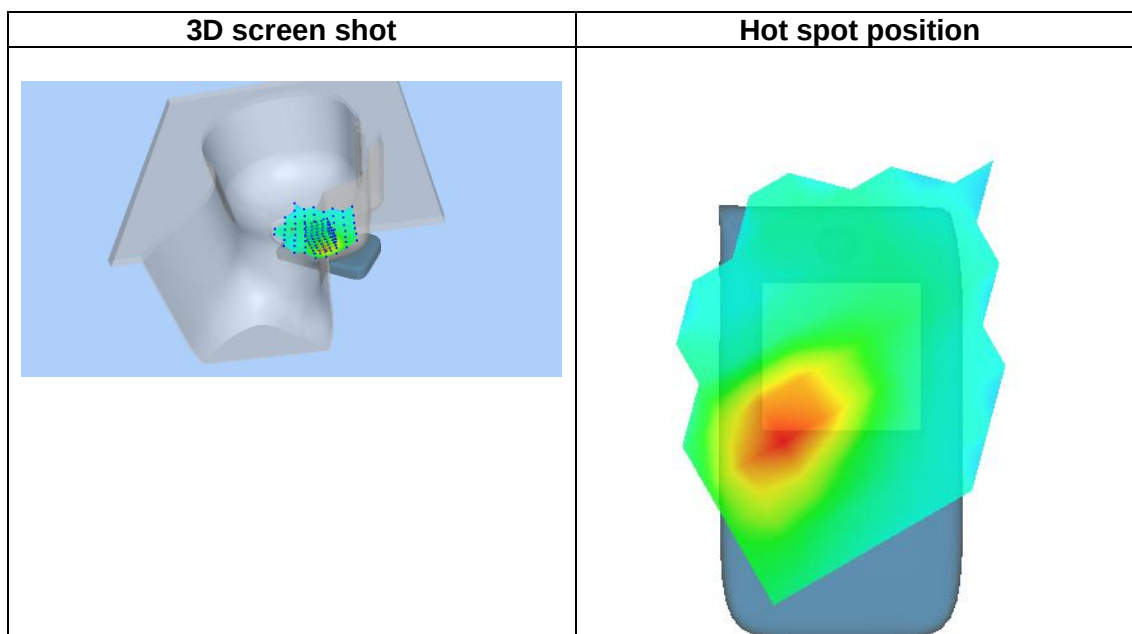
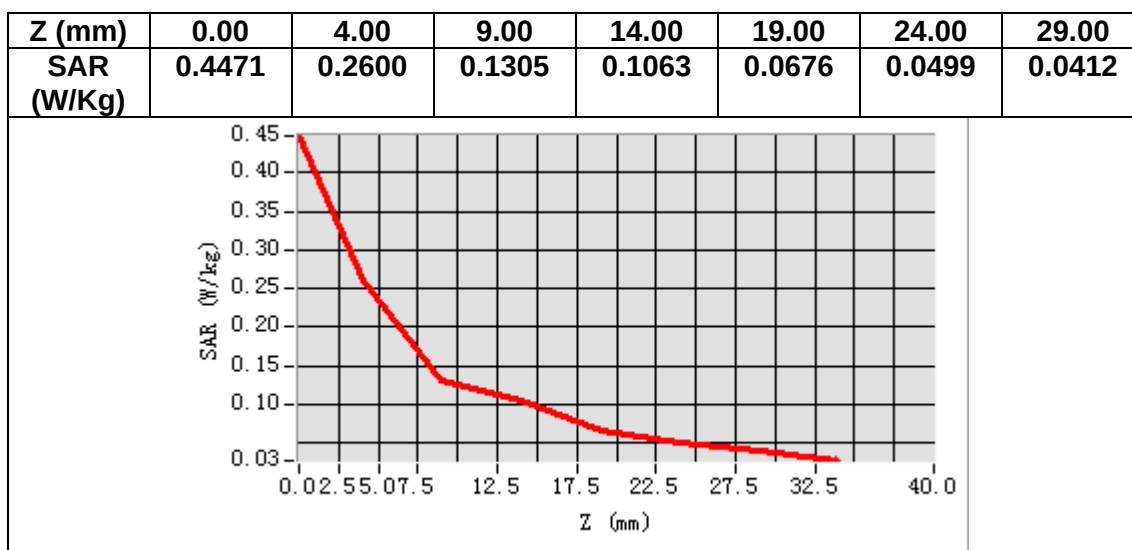
Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.657154
Relative permittivity (imaginary part)	13.872347
Conductivity (S/m)	1.448890
Variation (%)	-2.320000



Maximum location: X=-50.00, Y=-51.00

SAR Peak: 0.40 W/kg

SAR 10g (W/Kg)	0.156559
SAR 1g (W/Kg)	0.268791



MEASUREMENT 18

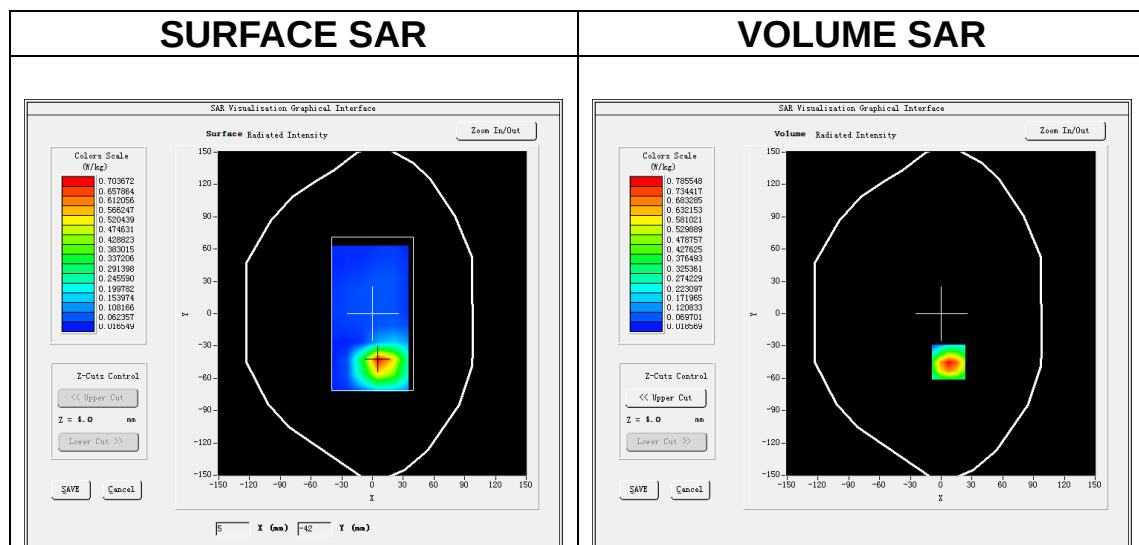
Date of measurement: 16/10/2024

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>2.57</u>

B. SAR Measurement Results

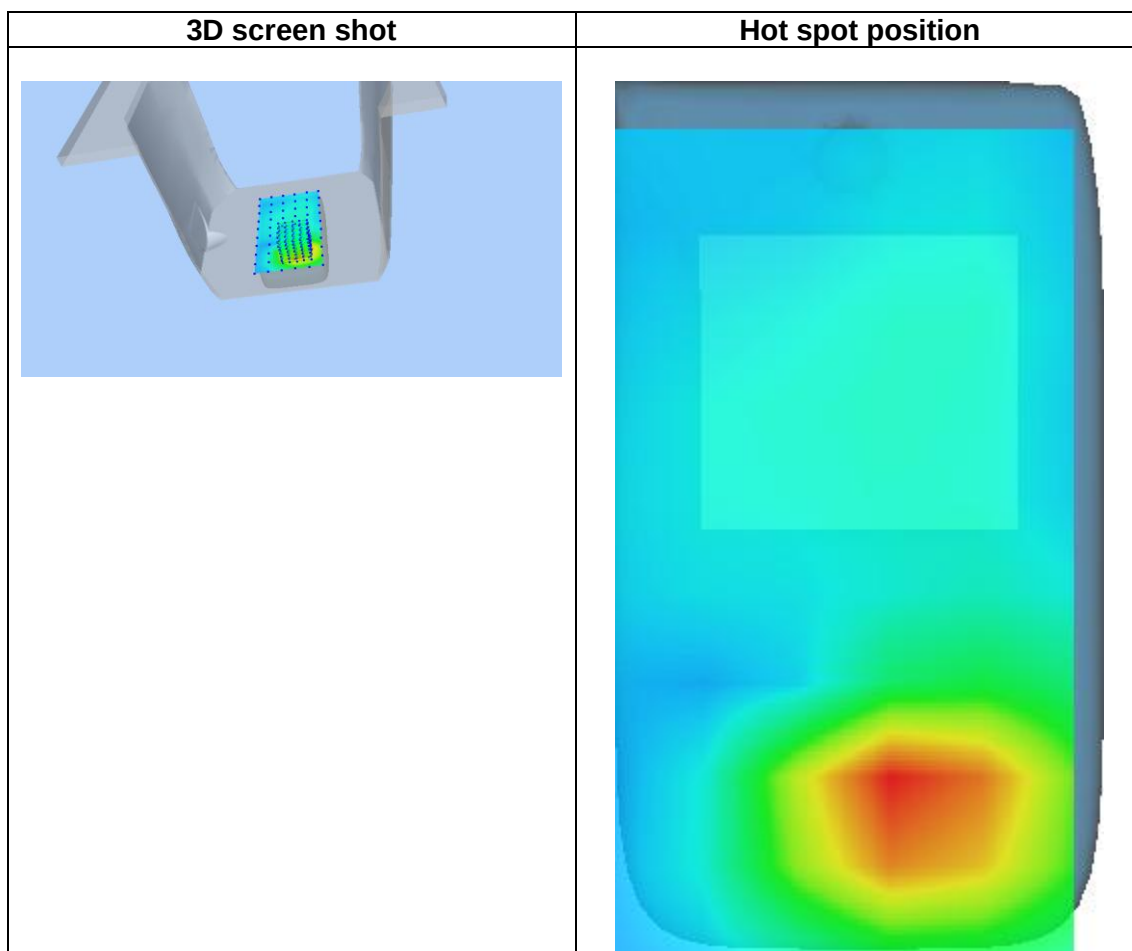
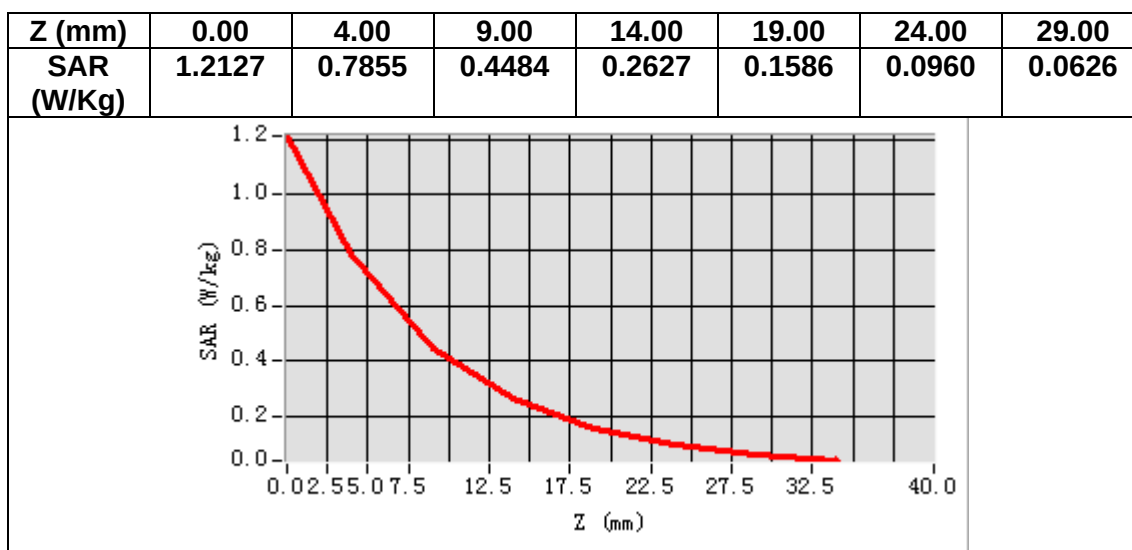
Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.657154
Relative permittivity (imaginary part)	13.872347
Conductivity (S/m)	1.448890
Variation (%)	-0.410000



Maximum location: X=7.00, Y=-45.00

SAR Peak: 1.22 W/kg

SAR 10g (W/Kg)	0.397360
SAR 1g (W/Kg)	0.762882



MEASUREMENT 19

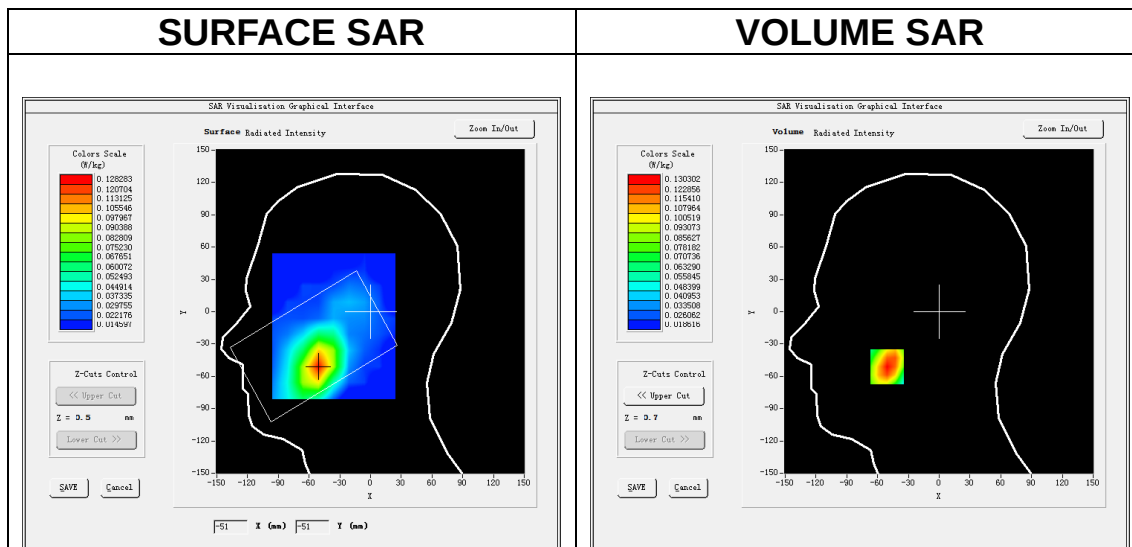
Date of measurement: 22/10/2024

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>2.51</u>

B. SAR Measurement Results

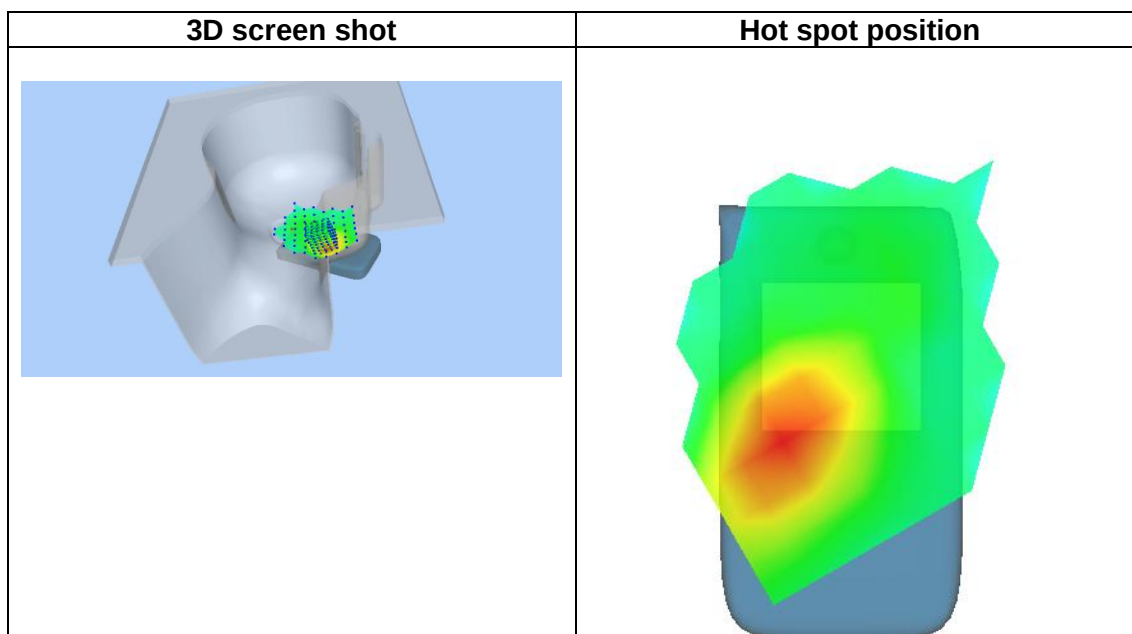
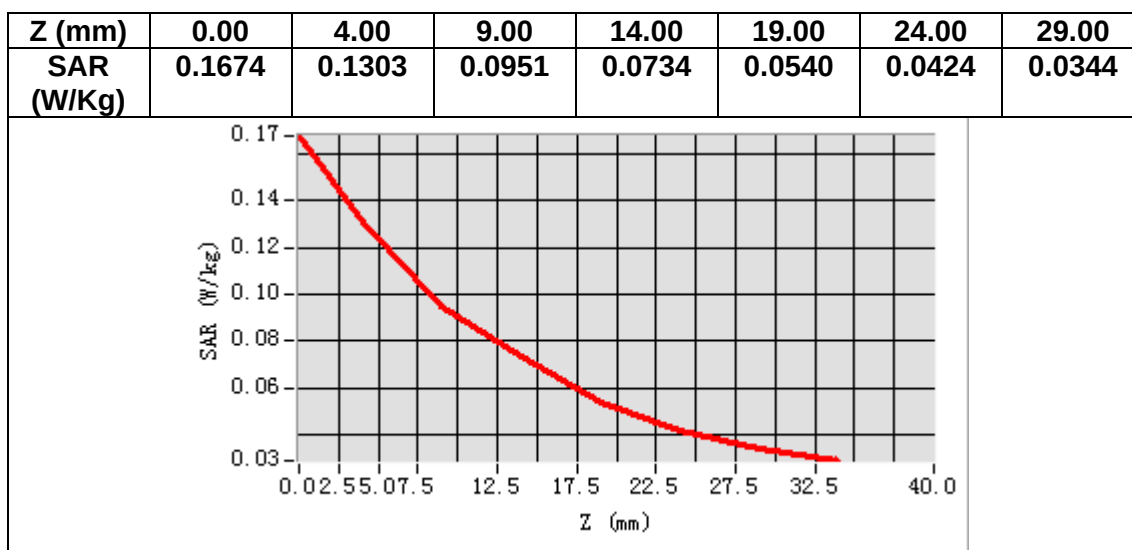
Frequency (MHz)	1732.500000
Relative permittivity (real part)	39.723007
Relative permittivity (imaginary part)	13.622739
Conductivity (S/m)	1.311189
Variation (%)	4.060000



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

SAR Peak: 0.17 W/kg

SAR 10g (W/Kg)	0.083986
SAR 1g (W/Kg)	0.124660



MEASUREMENT 20

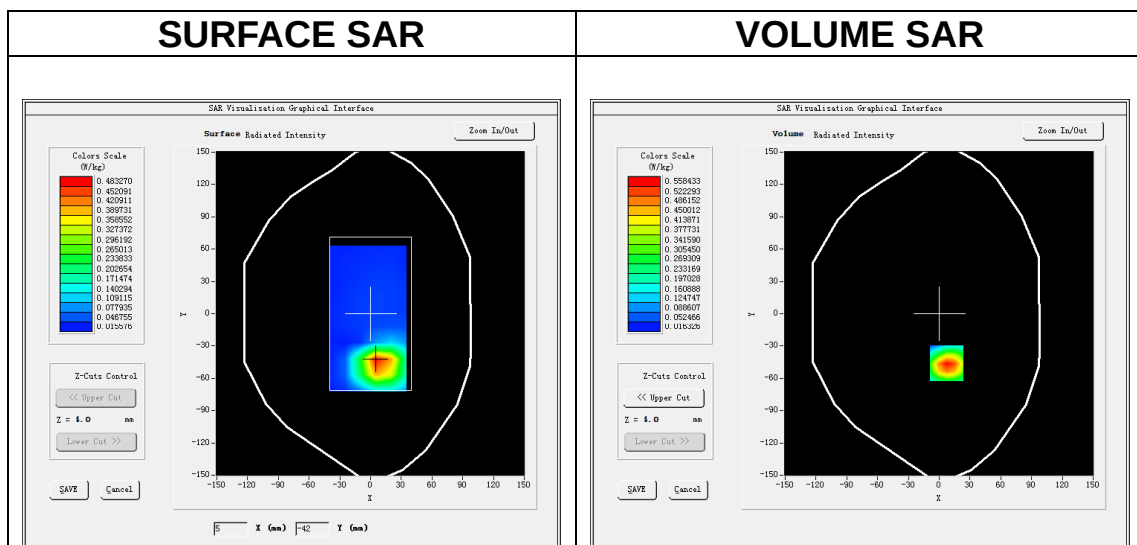
Date of measurement: 22/10/2024

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>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.51</u>

B. SAR Measurement Results

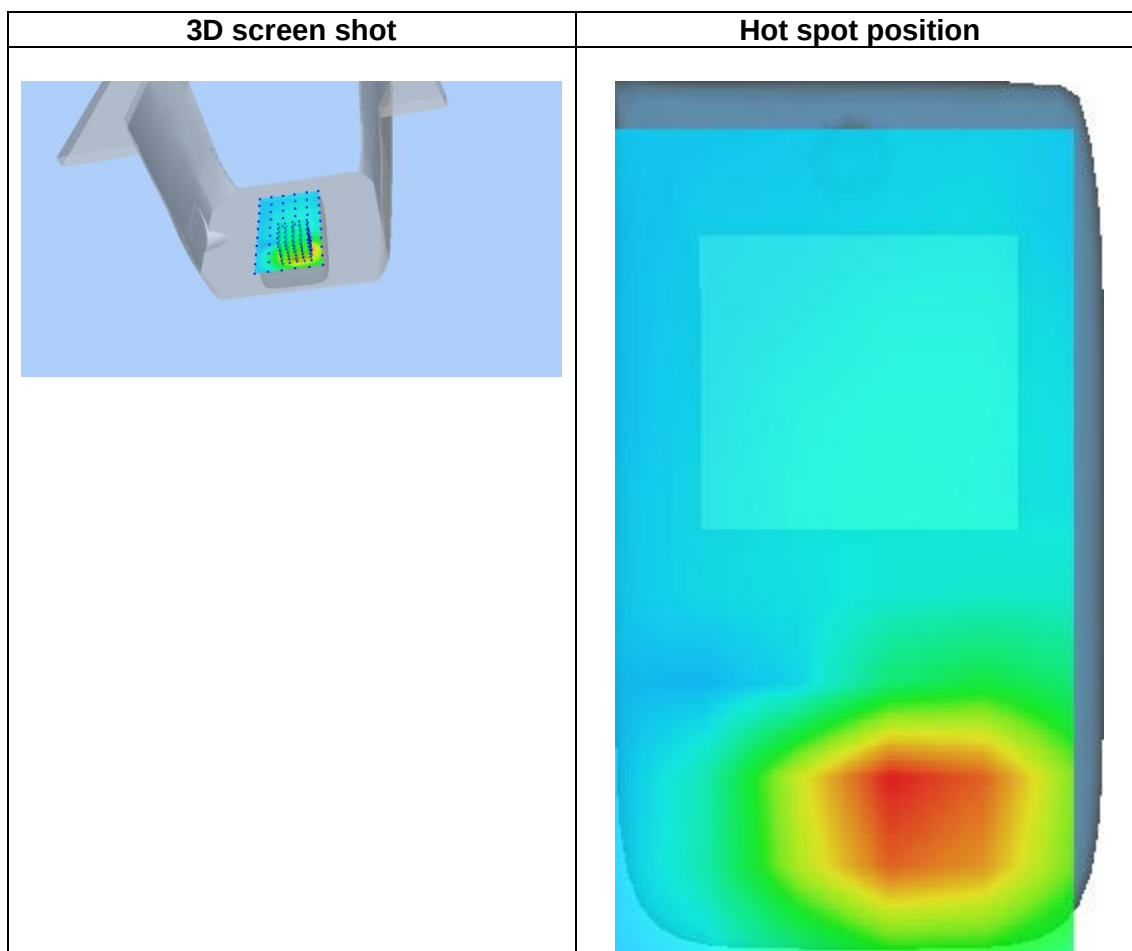
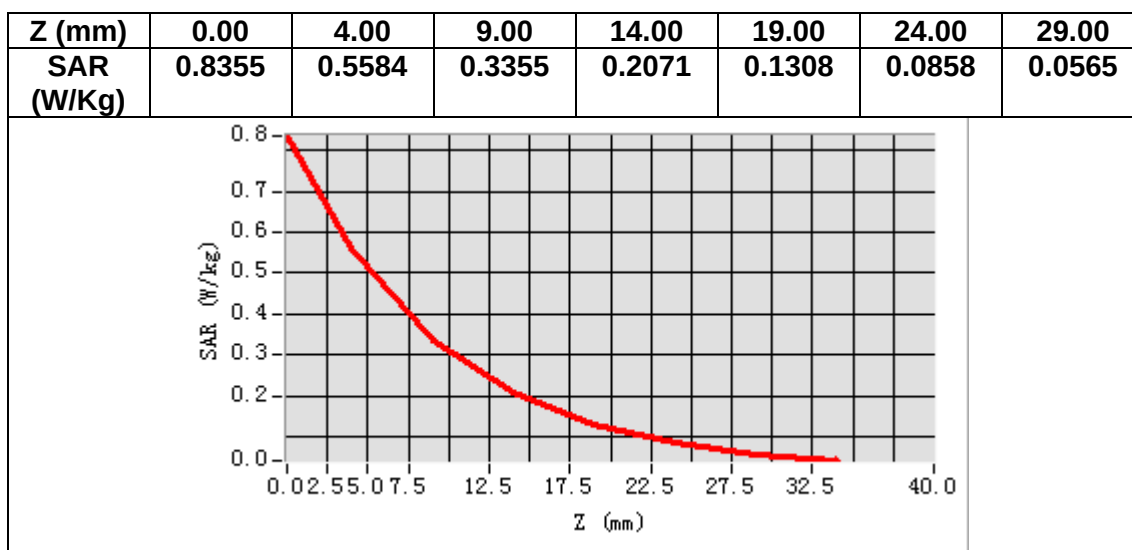
Frequency (MHz)	1732.500000
Relative permittivity (real part)	39.723007
Relative permittivity (imaginary part)	13.622739
Conductivity (S/m)	1.311189
Variation (%)	1.440000



Maximum location: X=7.00, Y=-46.00

SAR Peak: 0.84 W/kg

SAR 10g (W/Kg)	0.279236
SAR 1g (W/Kg)	0.532161



MEASUREMENT 21

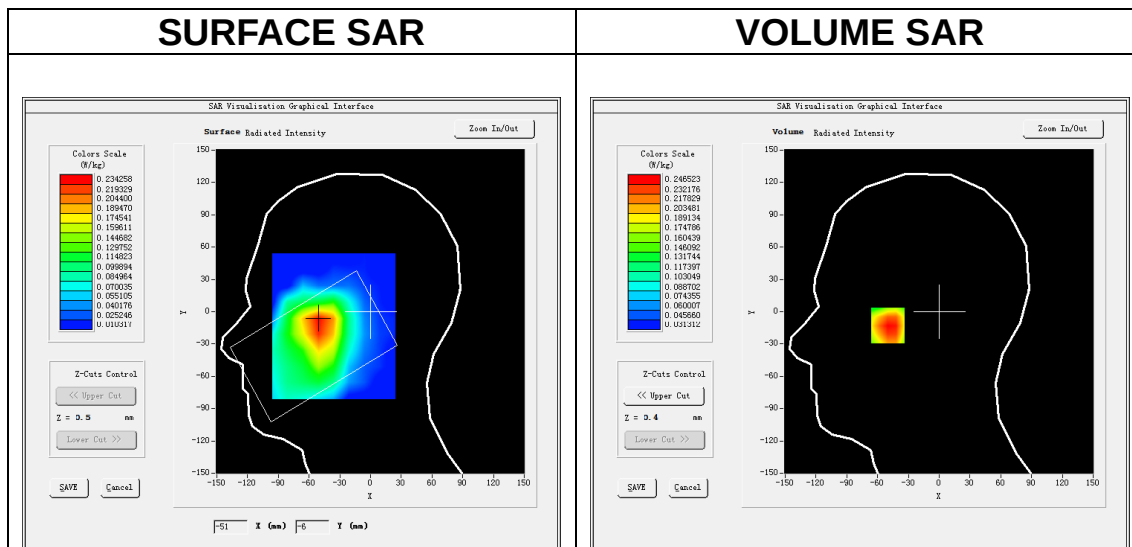
Date of measurement: 15/10/2024

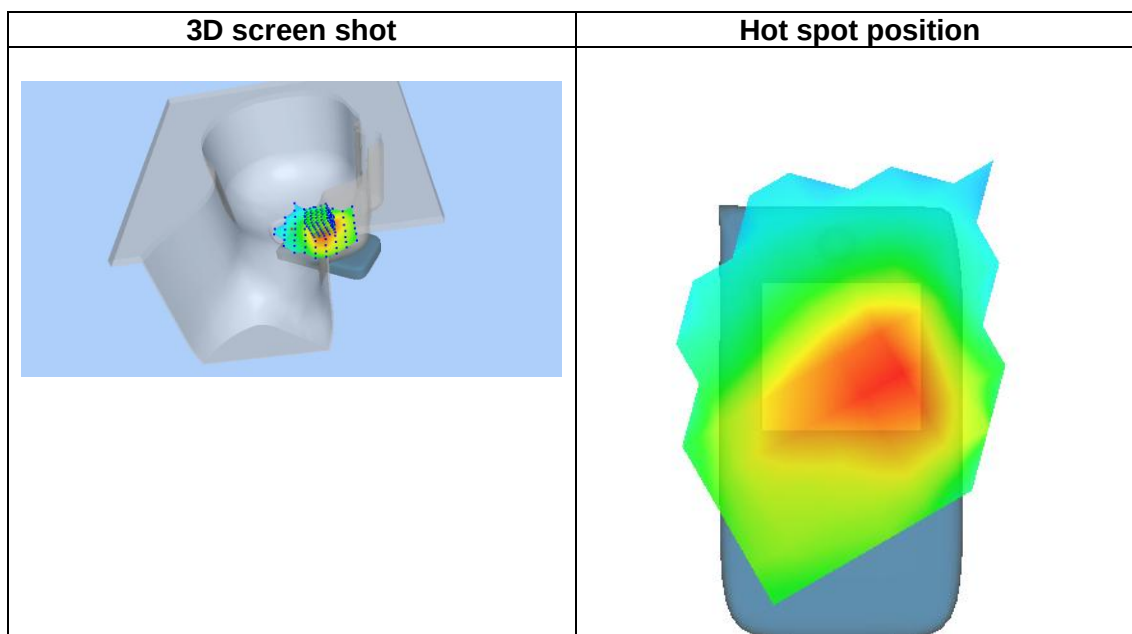
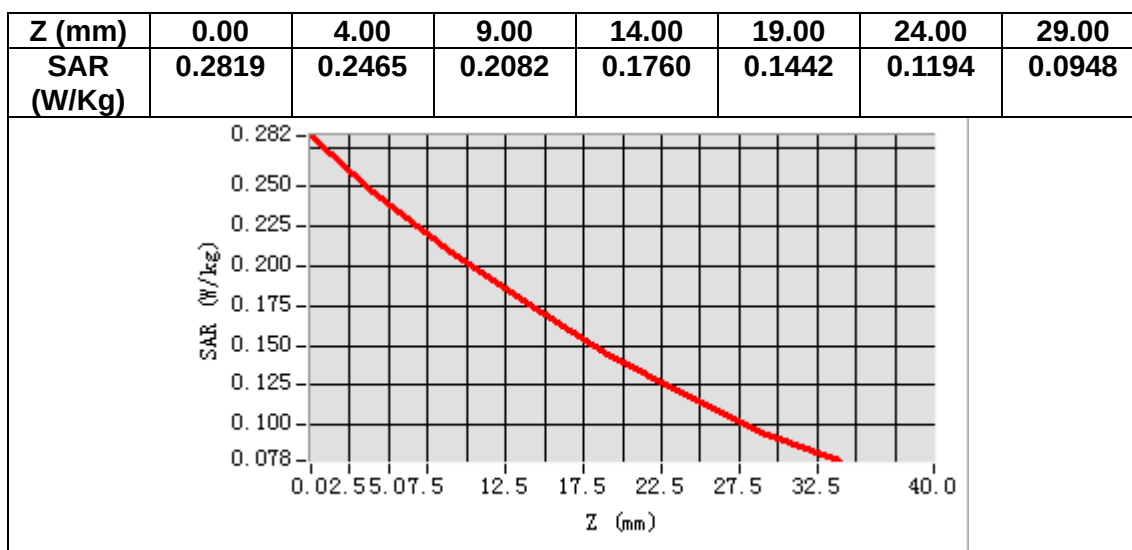
A. Experimental conditions.

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>LTE band 5</u>
Channels	<u>Middle</u>
Signal	<u>LTE (Crest factor: 1.0)</u>
ConvF	<u>2.34</u>

B. SAR Measurement Results

Frequency (MHz)	836.500000
Relative permittivity (real part)	41.880817
Relative permittivity (imaginary part)	19.729731
Conductivity (S/m)	0.916884
Variation (%)	-0.440000





MEASUREMENT 22

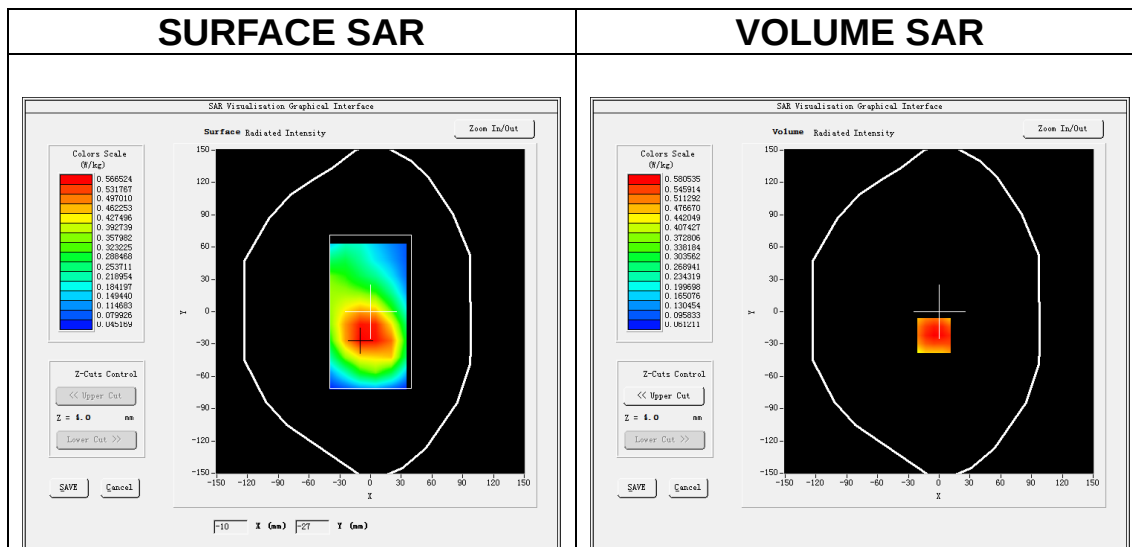
Date of measurement: 15/10/2024

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>2.34</u>

B. SAR Measurement Results

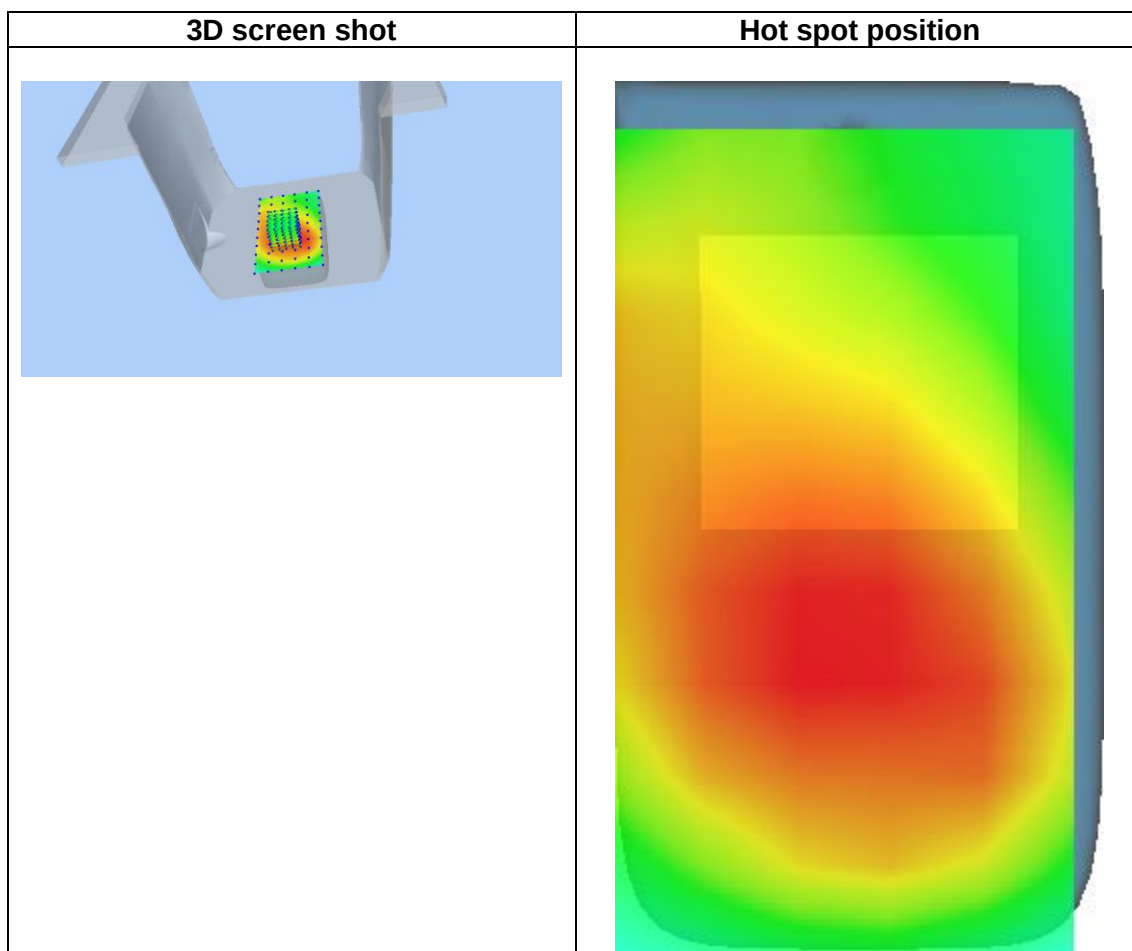
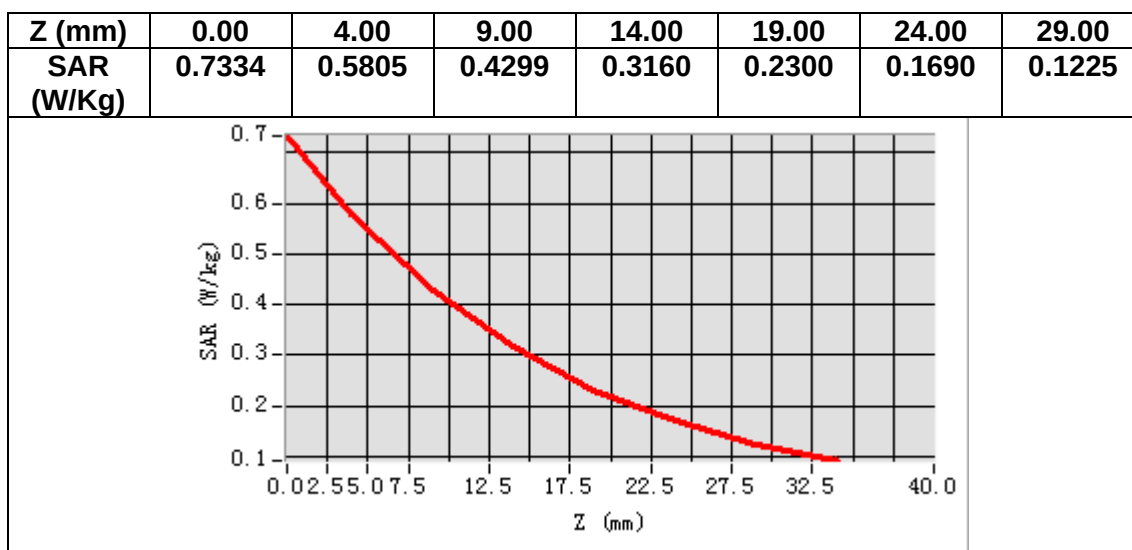
Frequency (MHz)	836.500000
Relative permittivity (real part)	41.880817
Relative permittivity (imaginary part)	19.729731
Conductivity (S/m)	0.916884
Variation (%)	-2.660000



Maximum location: X=-5.00, Y=-22.00

SAR Peak: 0.74 W/kg

SAR 10g (W/Kg)	0.409107
SAR 1g (W/Kg)	0.569082



MEASUREMENT 23

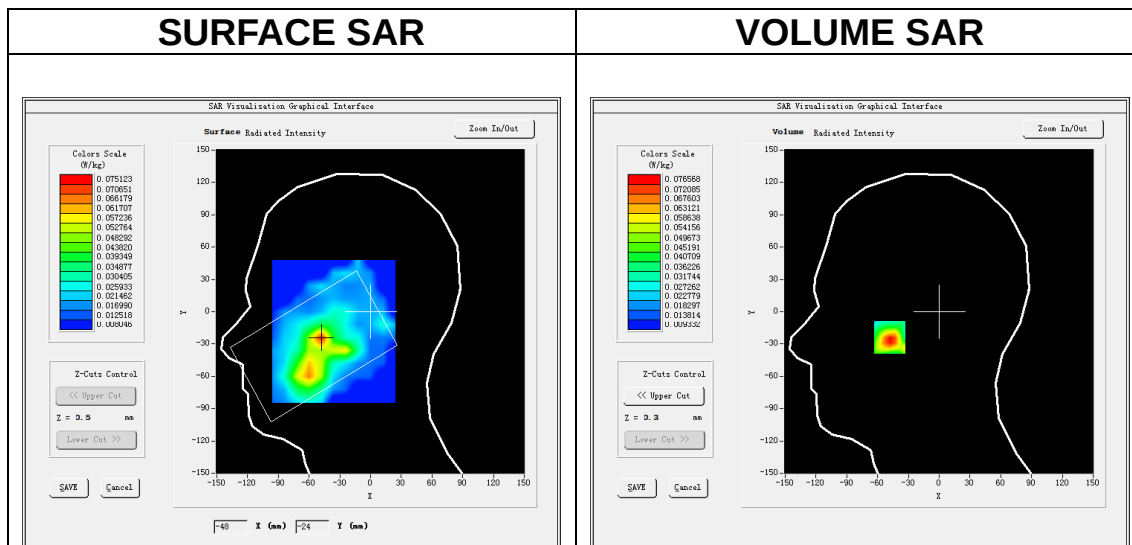
Date of measurement: 17/10/2024

A. Experimental conditions.

Area Scan	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
ZoomScan	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
Phantom	<u>Left head</u>
Device Position	<u>Cheek</u>
Band	<u>LTE band 7</u>
Channels	<u>Middle</u>
Signal	<u>LTE (Crest factor: 1.0)</u>
ConvF	<u>2.51</u>

B. SAR Measurement Results

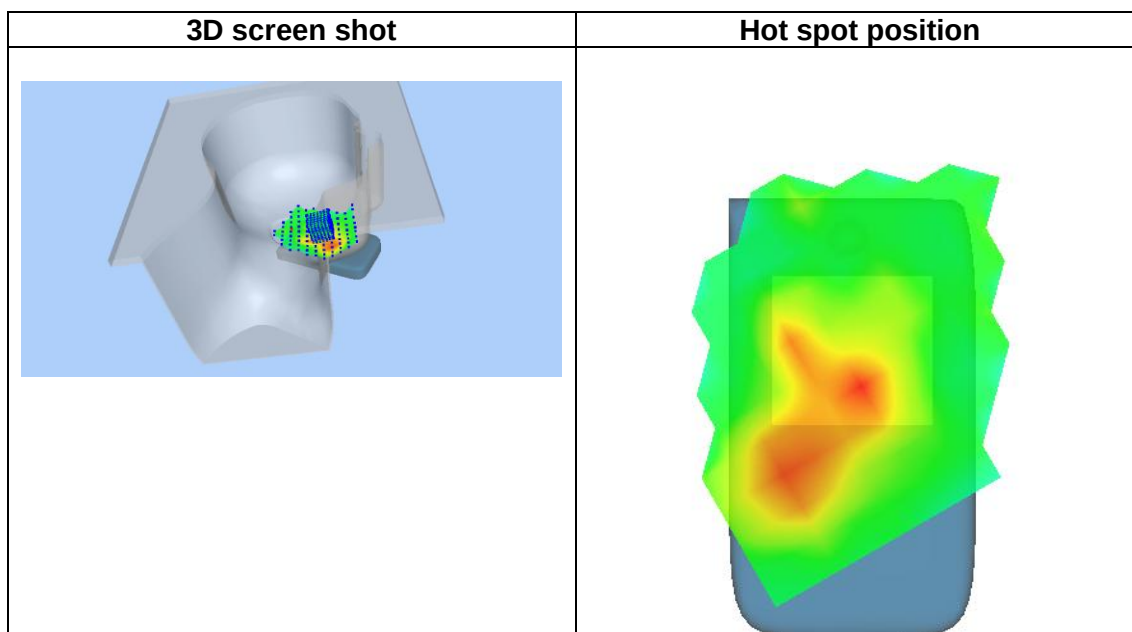
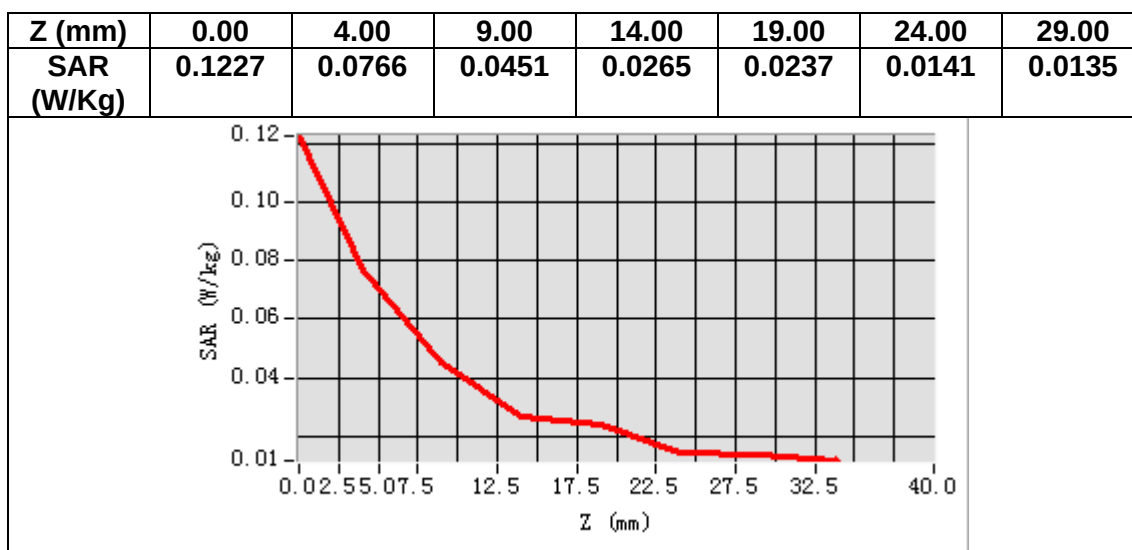
Frequency (MHz)	2535.000000
Relative permittivity (real part)	39.245743
Relative permittivity (imaginary part)	13.866988
Conductivity (S/m)	1.952934
Variation (%)	1.870000



Maximum location: X=-48.00, Y=-24.00

SAR Peak: 0.13 W/kg

SAR 10g (W/Kg)	0.039699
SAR 1g (W/Kg)	0.073521



MEASUREMENT 24

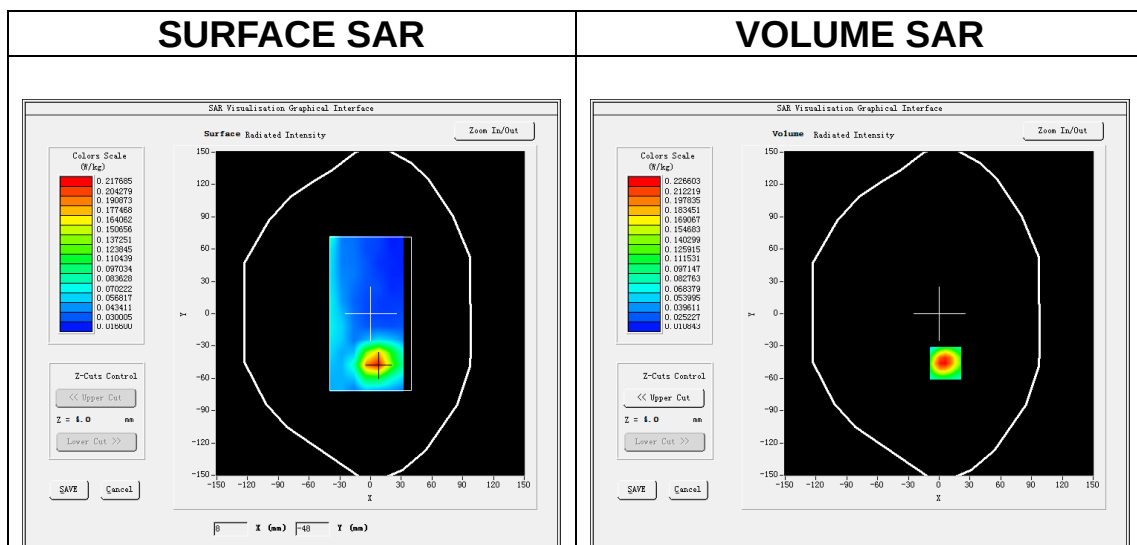
Date of measurement: 17/10/2024

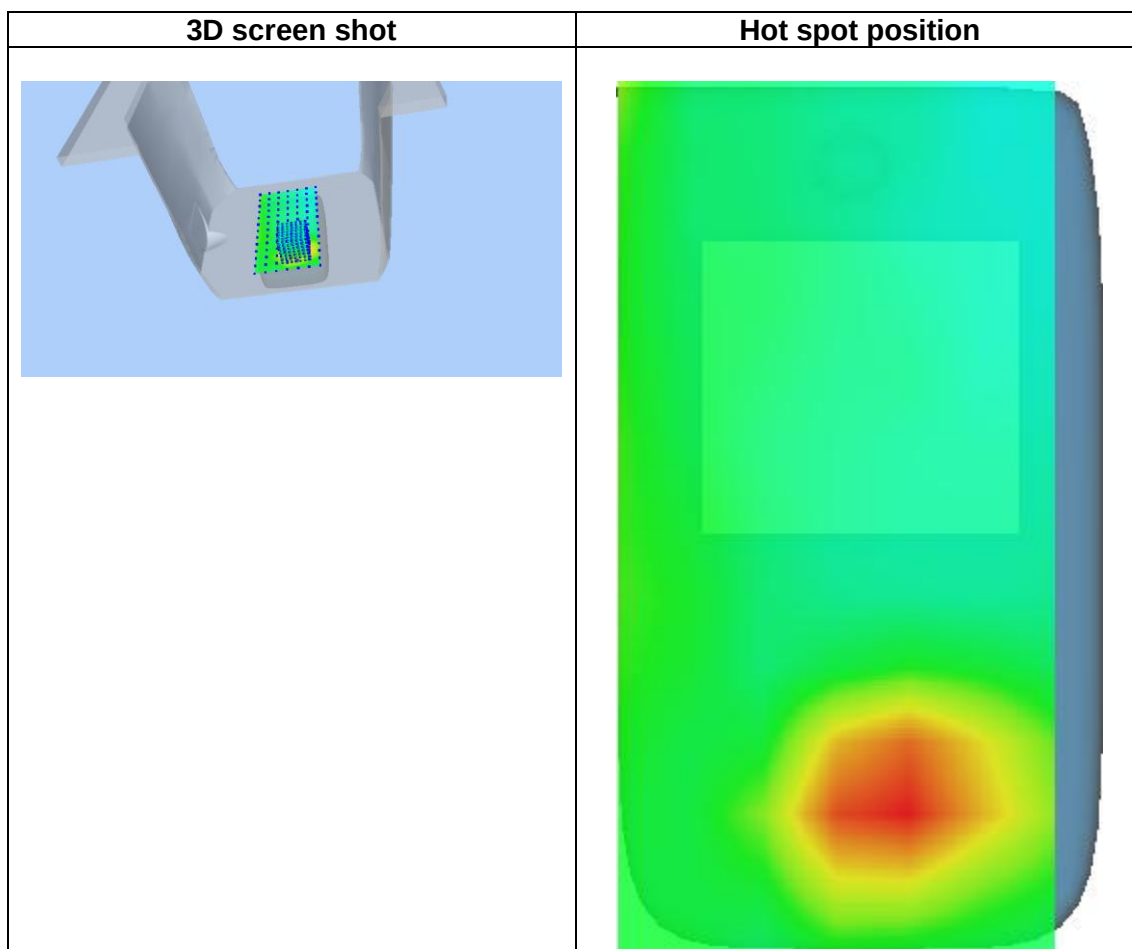
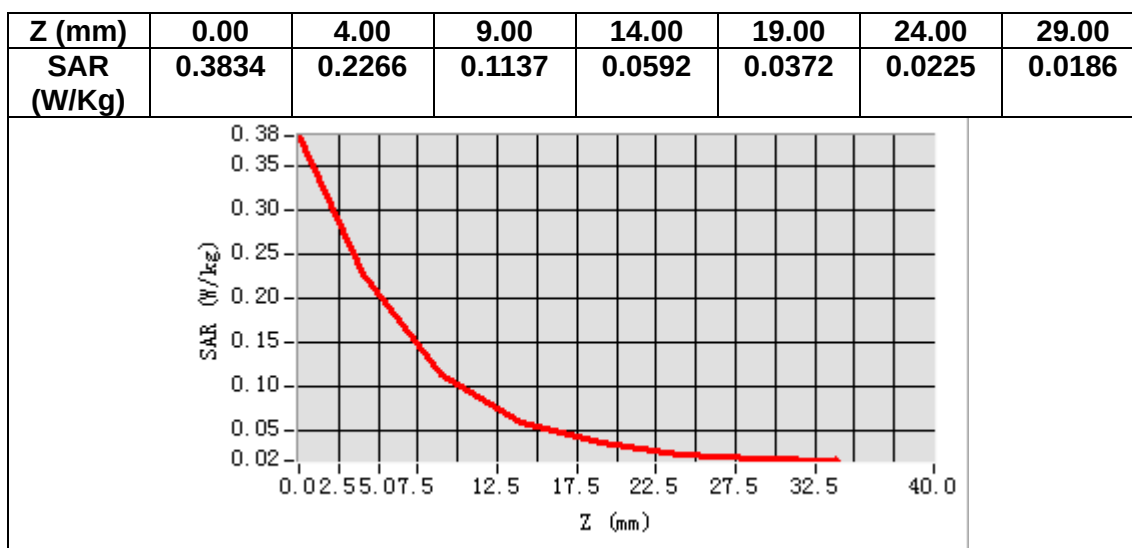
A. Experimental conditions.

Area Scan	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
ZoomScan	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Body</u>
Band	<u>LTE band 7</u>
Channels	<u>Middle</u>
Signal	<u>LTE (Crest factor: 1.0)</u>
ConvF	<u>2.51</u>

B. SAR Measurement Results

Frequency (MHz)	2535.000000
Relative permittivity (real part)	39.245743
Relative permittivity (imaginary part)	13.866988
Conductivity (S/m)	1.952934
Variation (%)	-4.419998





MEASUREMENT 25

Date of measurement: 14/10/2024

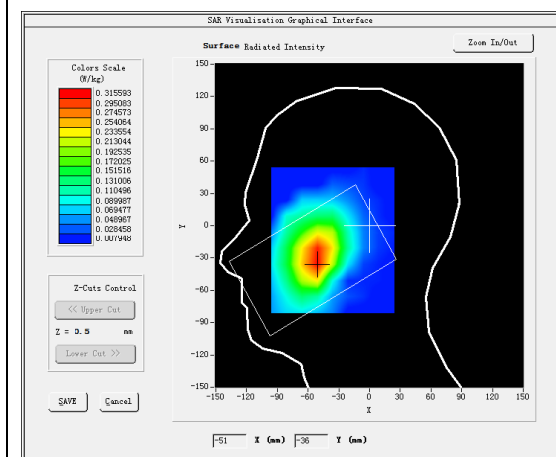
A. Experimental conditions.

<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 12</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.42</u>

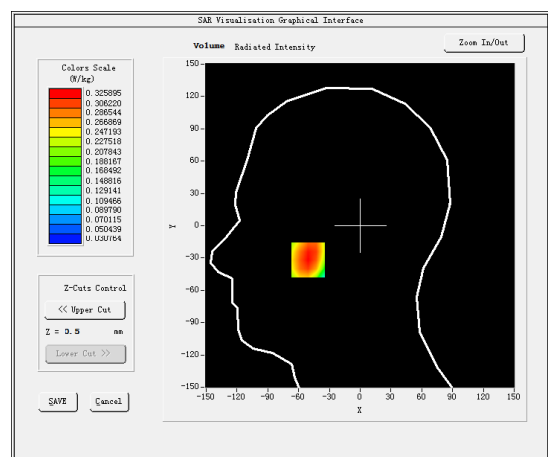
B. SAR Measurement Results

Frequency (MHz)	707.500000
Relative permittivity (real part)	41.079533
Relative permittivity (imaginary part)	21.855495
Conductivity (S/m)	0.859042
Variation (%)	0.620000

SURFACE SAR



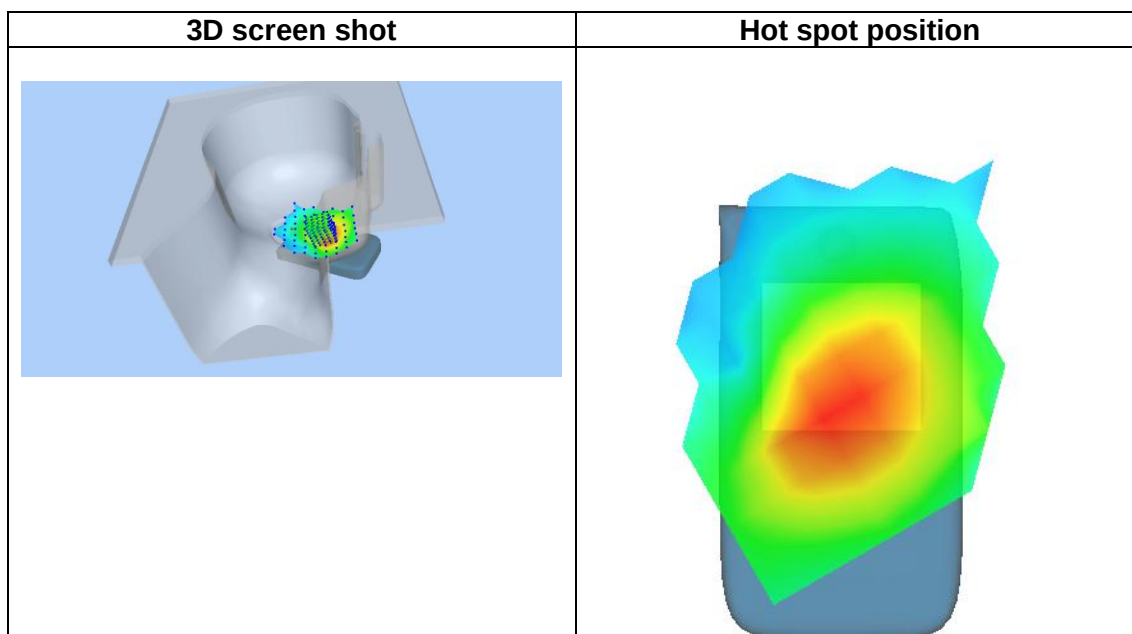
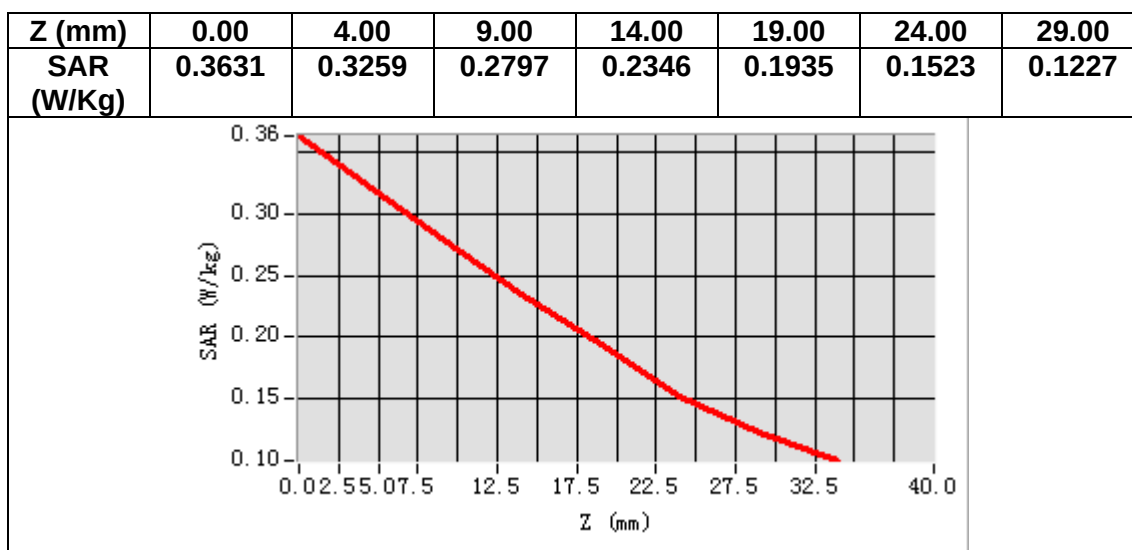
VOLUME SAR



Maximum location: X=-51.00, Y=-32.00

SAR Peak: 0.37 W/kg

SAR 10g (W/Kg)	0.249506
SAR 1g (W/Kg)	0.316687



MEASUREMENT 26

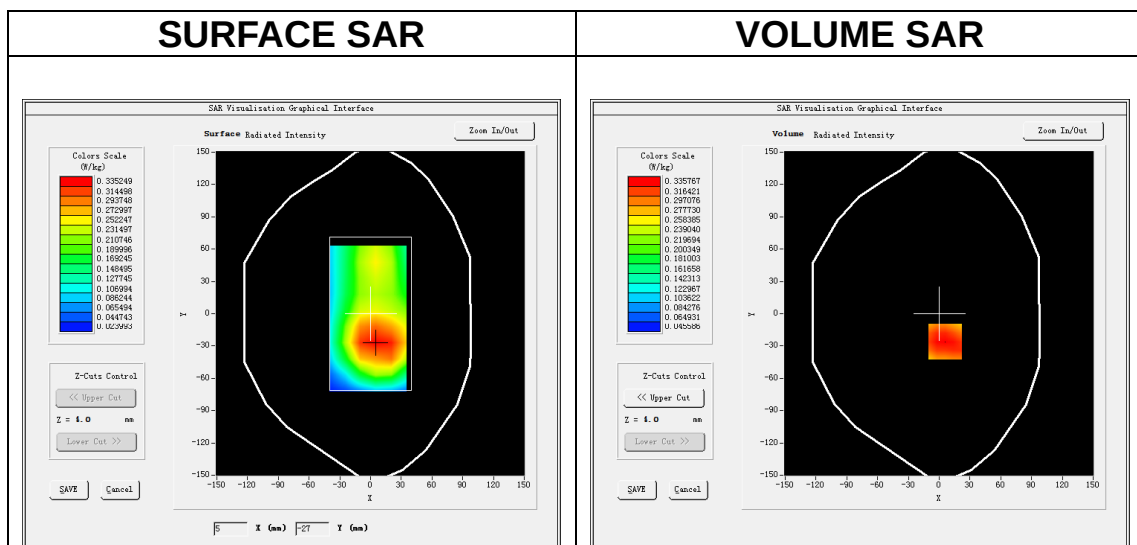
Date of measurement: 14/10/2024

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 12</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.42</u>

B. SAR Measurement Results

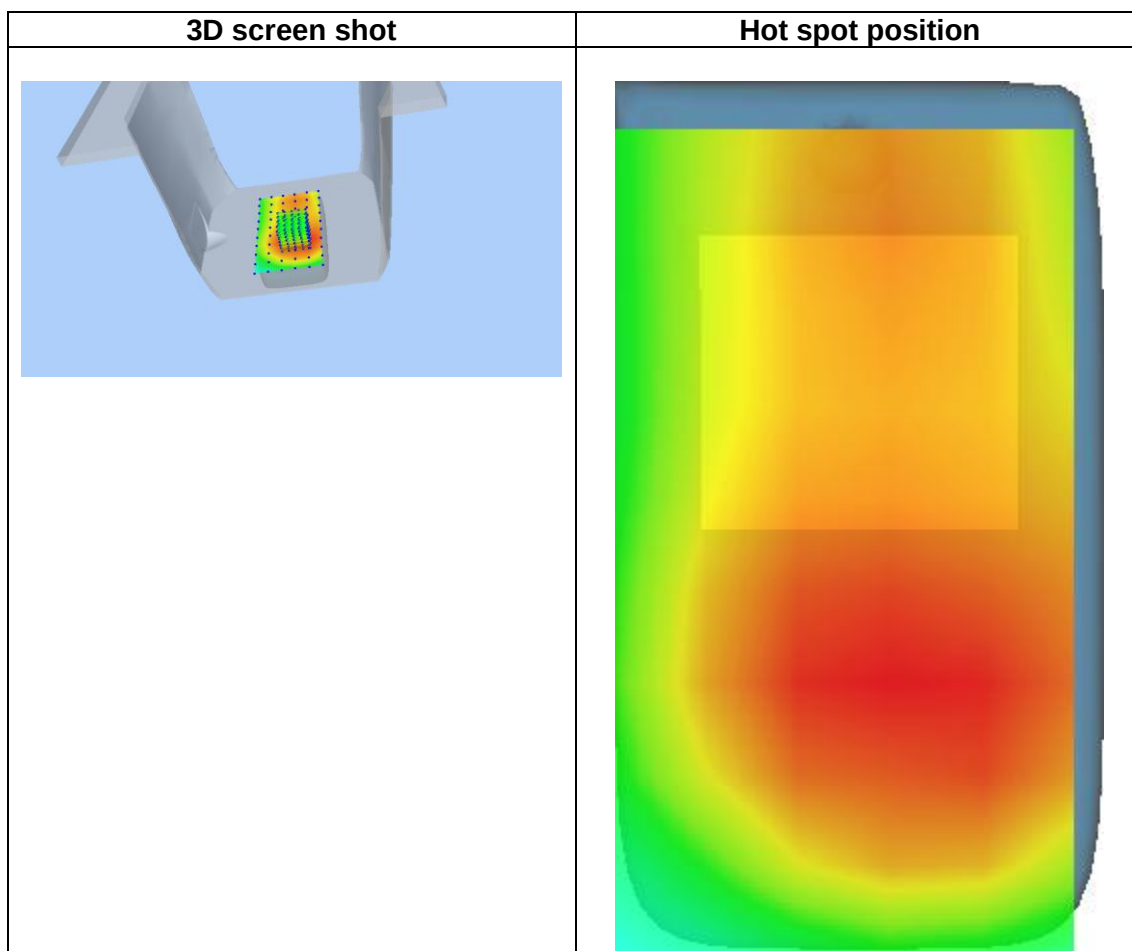
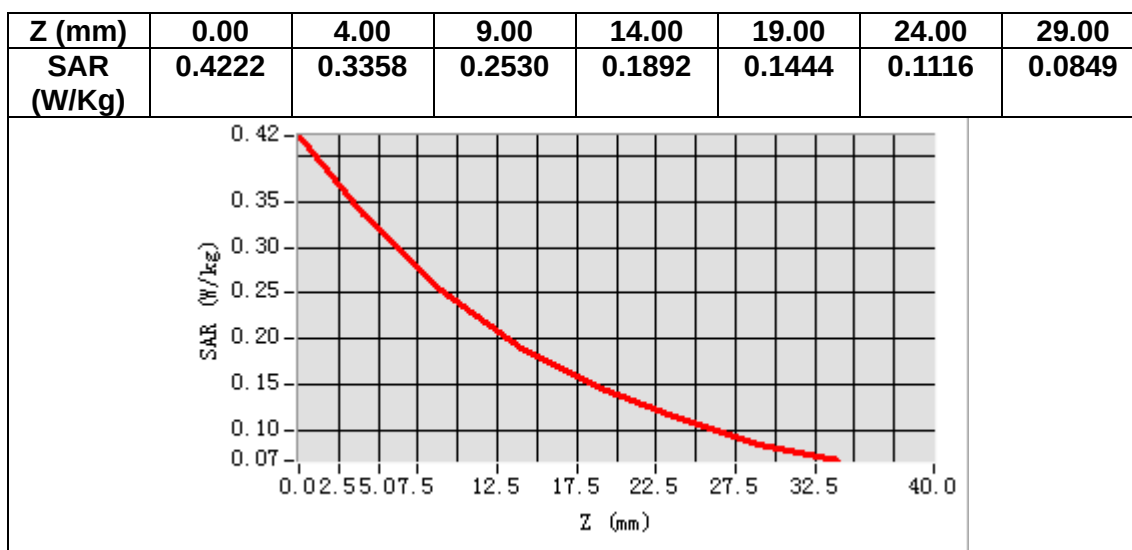
Frequency (MHz)	707.500000
Relative permittivity (real part)	41.079533
Relative permittivity (imaginary part)	21.855495
Conductivity (S/m)	0.859042
Variation (%)	-1.050000



Maximum location: X=6.00, Y=-26.00

SAR Peak: 0.43 W/kg

SAR 10g (W/Kg)	0.242220
SAR 1g (W/Kg)	0.327636



MEASUREMENT 27

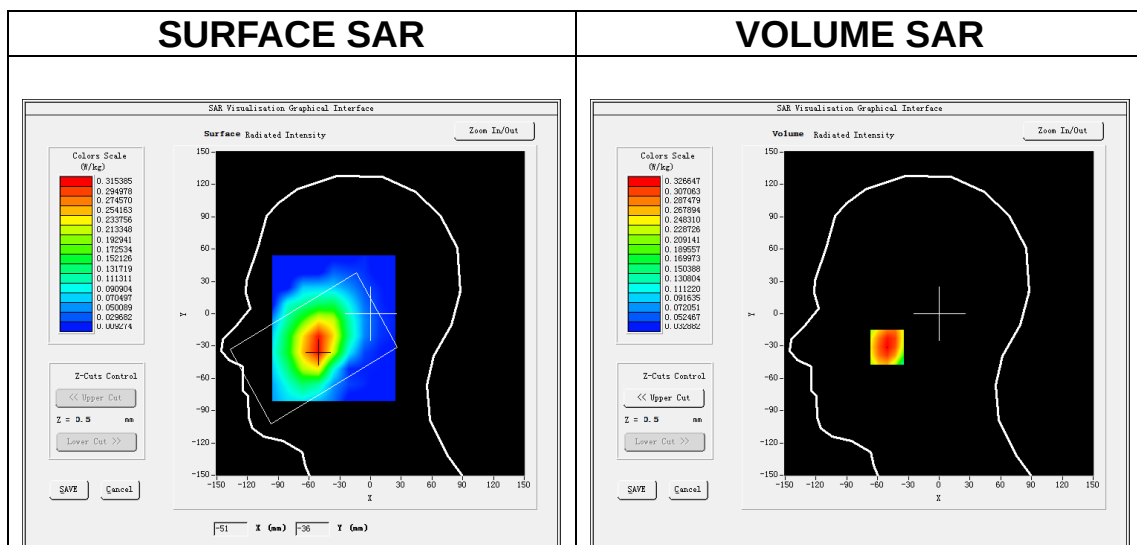
Date of measurement: 14/10/2024

A. Experimental conditions.

Area Scan	dx=15mm dy=15mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 17
Channels	Middle
Signal	LTE (Crest factor: 1.0)
ConvF	2.42

B. SAR Measurement Results

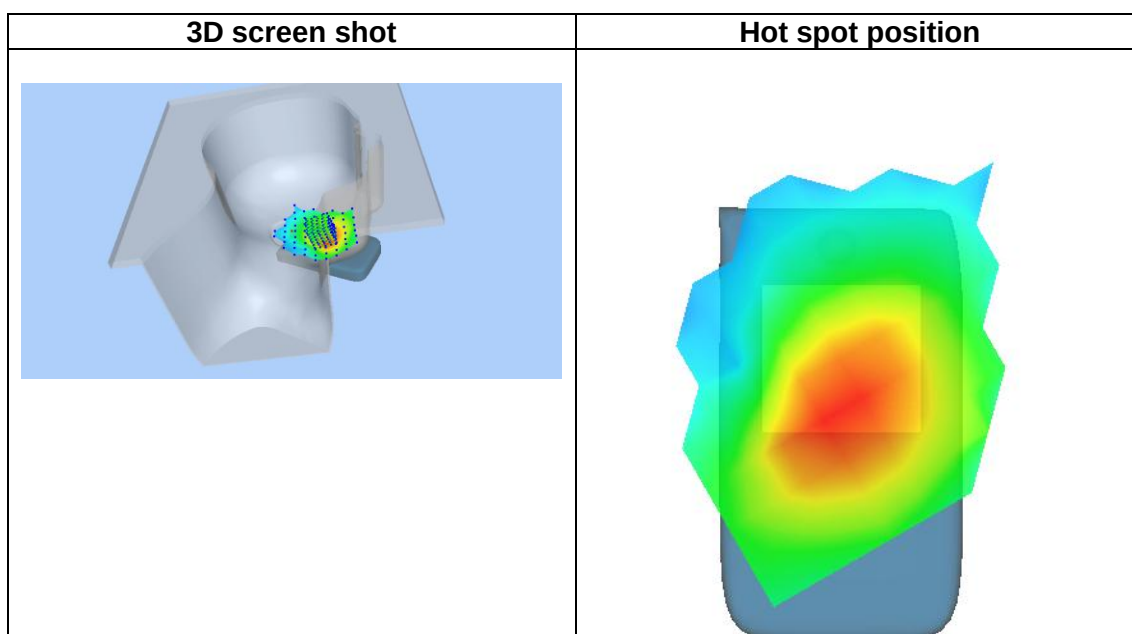
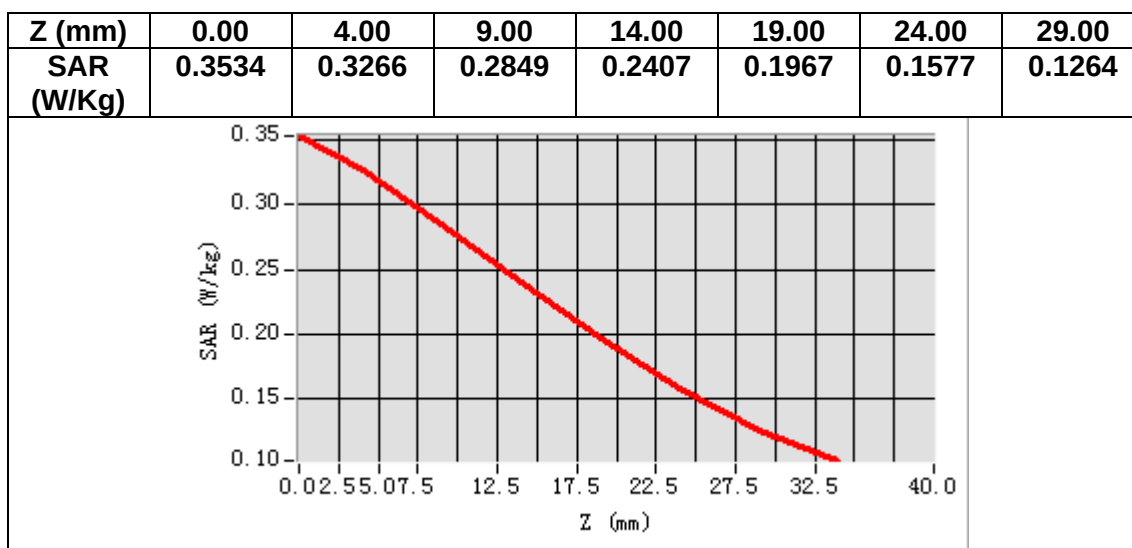
Frequency (MHz)	710.000000
Relative permittivity (real part)	41.064182
Relative permittivity (imaginary part)	21.795946
Conductivity (S/m)	0.859729
Variation (%)	-0.010000



Maximum location: X=-51.00, Y=-31.00

SAR Peak: 0.37 W/kg

SAR 10g (W/Kg)	0.251418
SAR 1g (W/Kg)	0.316525



MEASUREMENT 28

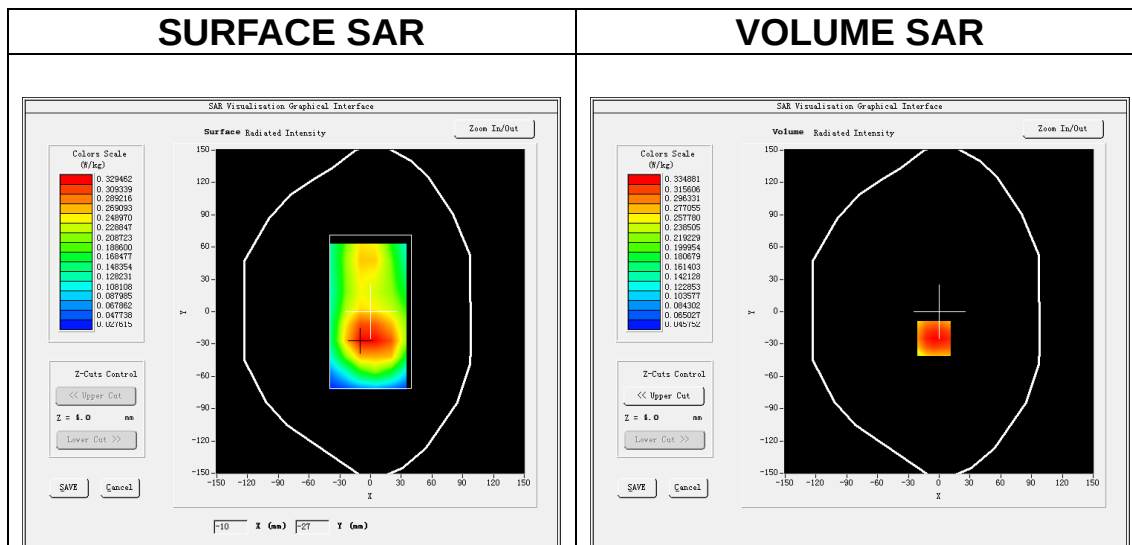
Date of measurement: 14/10/2024

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 17</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.42</u>

B. SAR Measurement Results

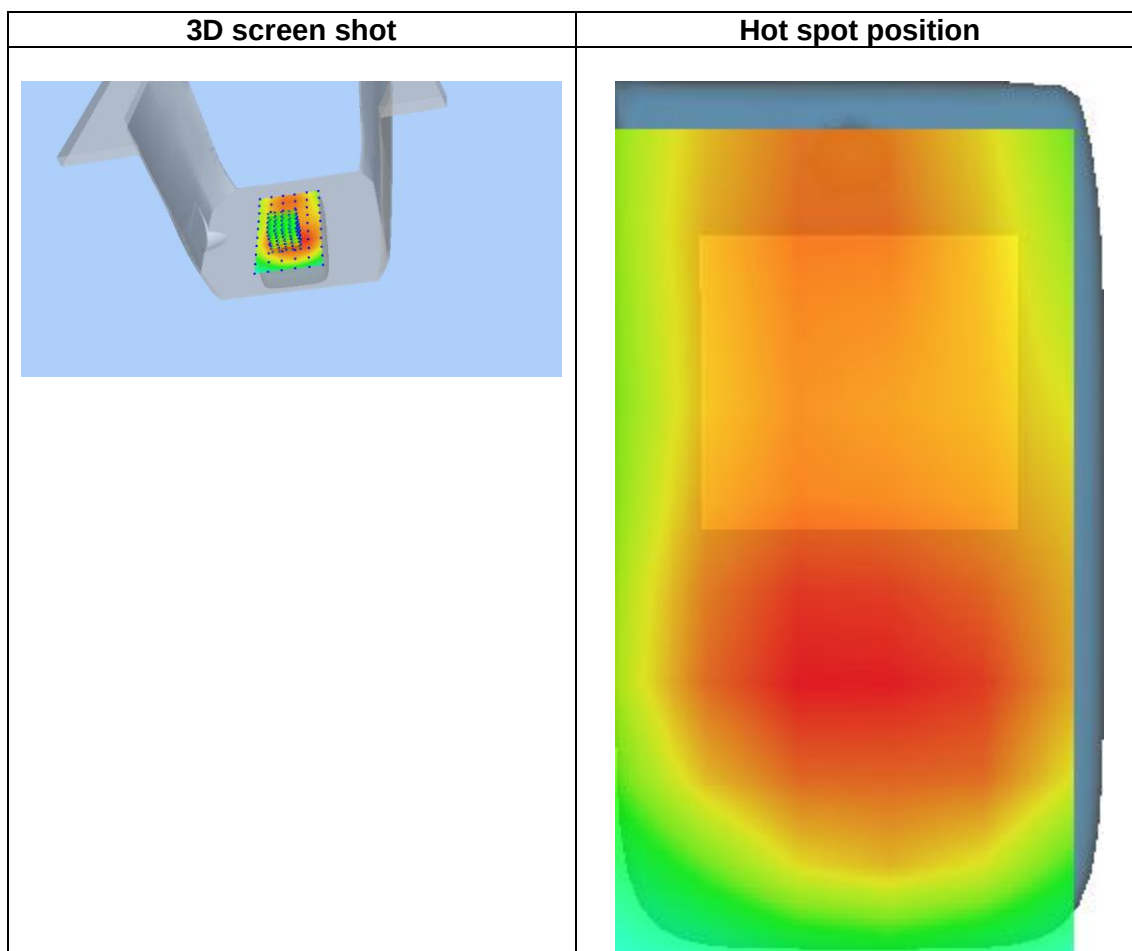
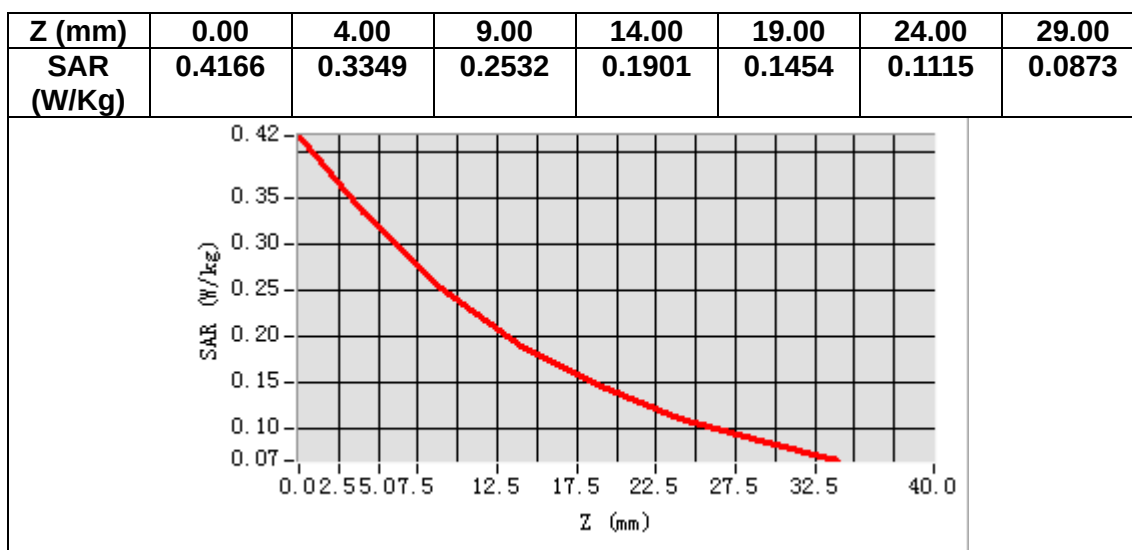
Frequency (MHz)	710.000000
Relative permittivity (real part)	41.064182
Relative permittivity (imaginary part)	21.795946
Conductivity (S/m)	0.859729
Variation (%)	-0.320000



Maximum location: X=-5.00, Y=-25.00

SAR Peak: 0.43 W/kg

SAR 10g (W/Kg)	0.239788
SAR 1g (W/Kg)	0.324688



MEASUREMENT 29

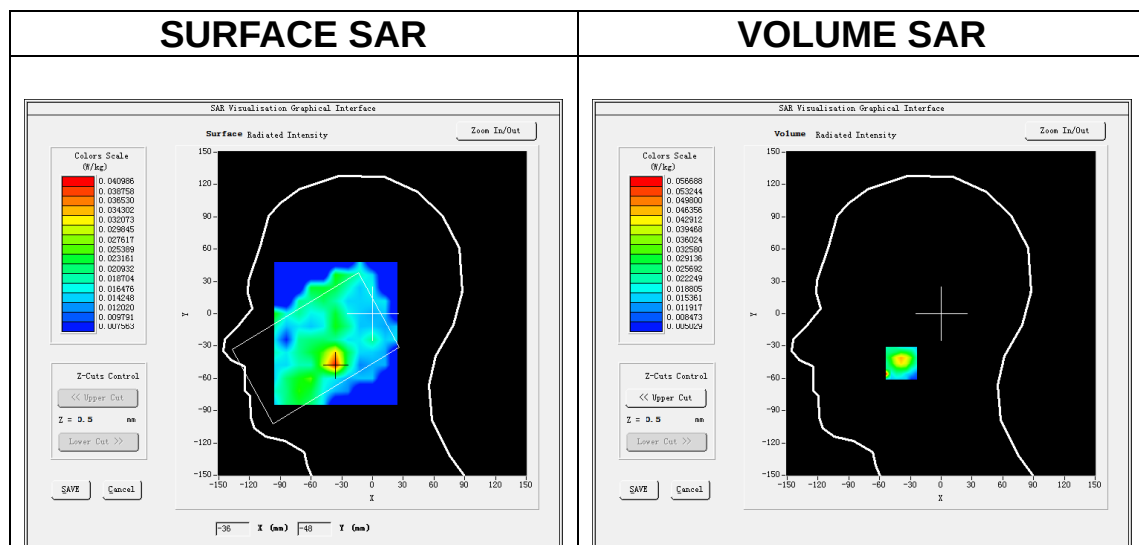
Date of measurement: 17/10/2024

A. Experimental conditions.

Area Scan	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
ZoomScan	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
Phantom	<u>Left head</u>
Device Position	<u>Cheek</u>
Band	<u>LTE band 41</u>
Channels	<u>Middle</u>
Signal	<u>LTE (Crest factor: 1.6)</u>
ConvF	<u>2.51</u>

B. SAR Measurement Results

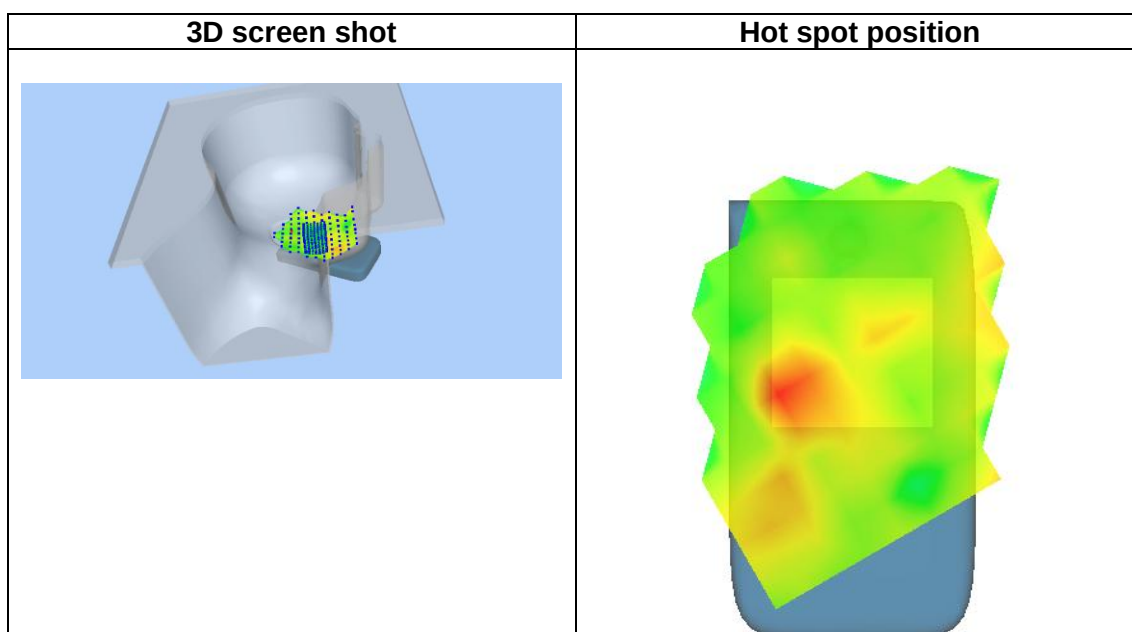
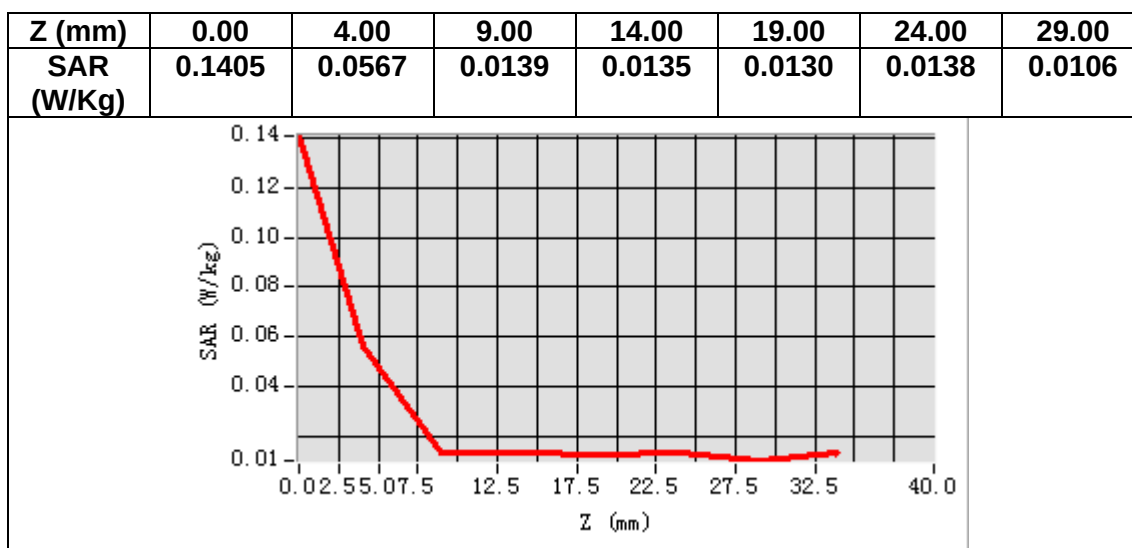
Frequency (MHz)	2593.000000
Relative permittivity (real part)	38.964241
Relative permittivity (imaginary part)	14.030588
Conductivity (S/m)	2.021184
Variation (%)	-1.680000



Maximum location: X=-37.00, Y=-46.00

SAR Peak: 0.12 W/kg

SAR 10g (W/Kg)	0.021904
SAR 1g (W/Kg)	0.028234



MEASUREMENT 30

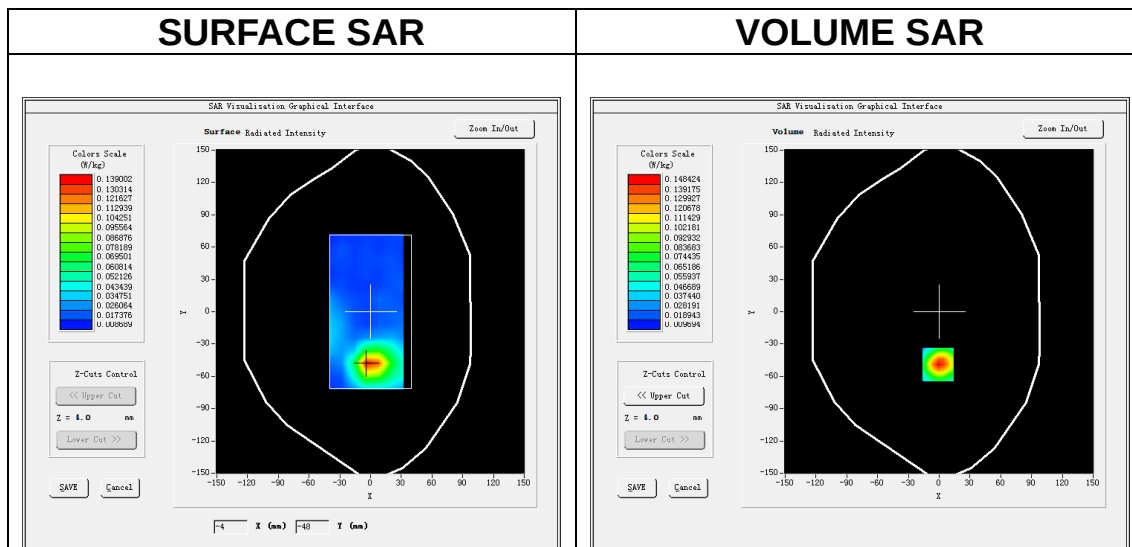
Date of measurement: 7/10/2024

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 41</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.6)</u>
<u>ConvF</u>	<u>2.51</u>

B. SAR Measurement Results

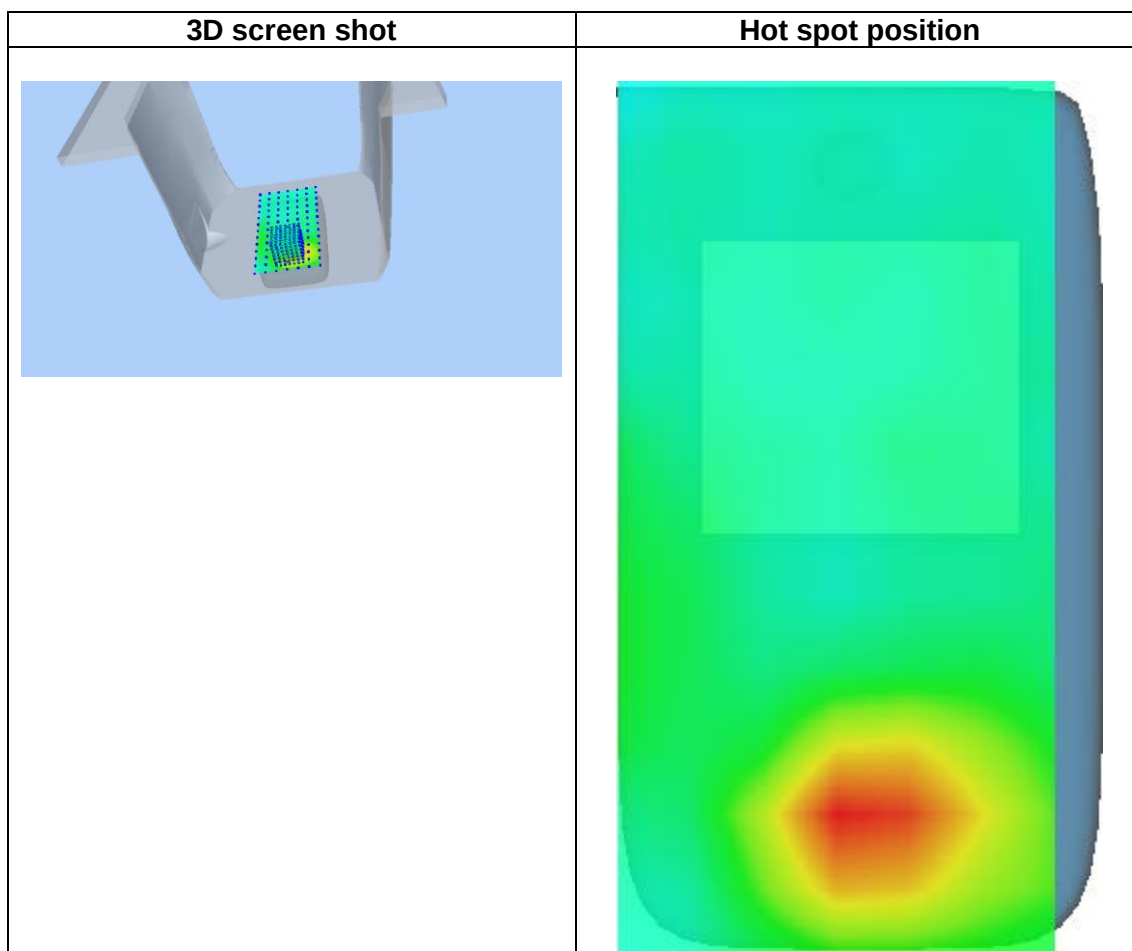
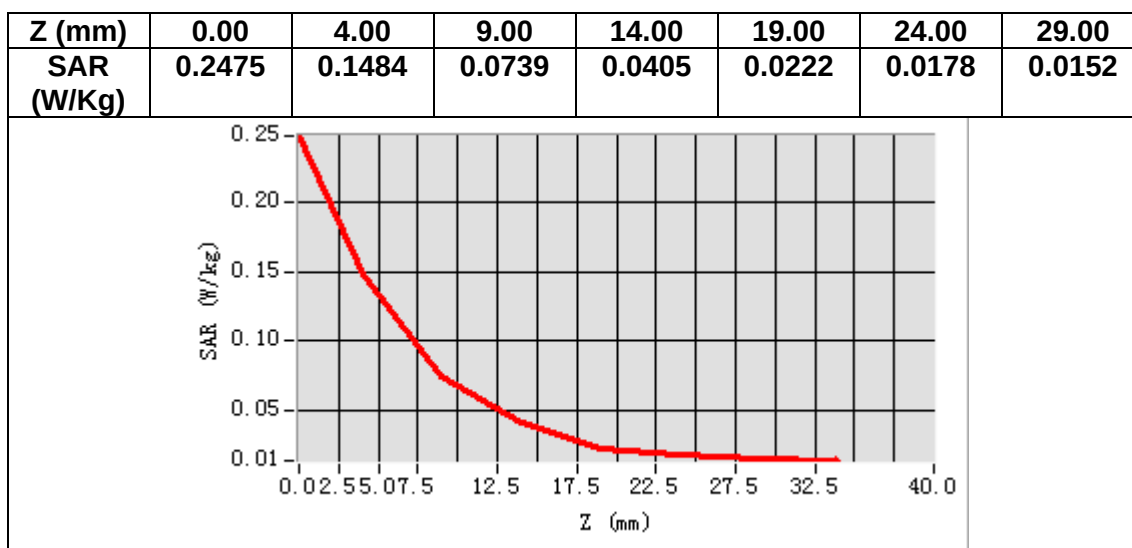
Frequency (MHz)	2593.000000
Relative permittivity (real part)	38.964241
Relative permittivity (imaginary part)	14.030588
Conductivity (S/m)	2.021184
Variation (%)	0.360000



Maximum location: X=-1.00, Y=-49.00

SAR Peak: 0.25 W/kg

SAR 10g (W/Kg)	0.069093
SAR 1g (W/Kg)	0.137767



MEASUREMENT 31

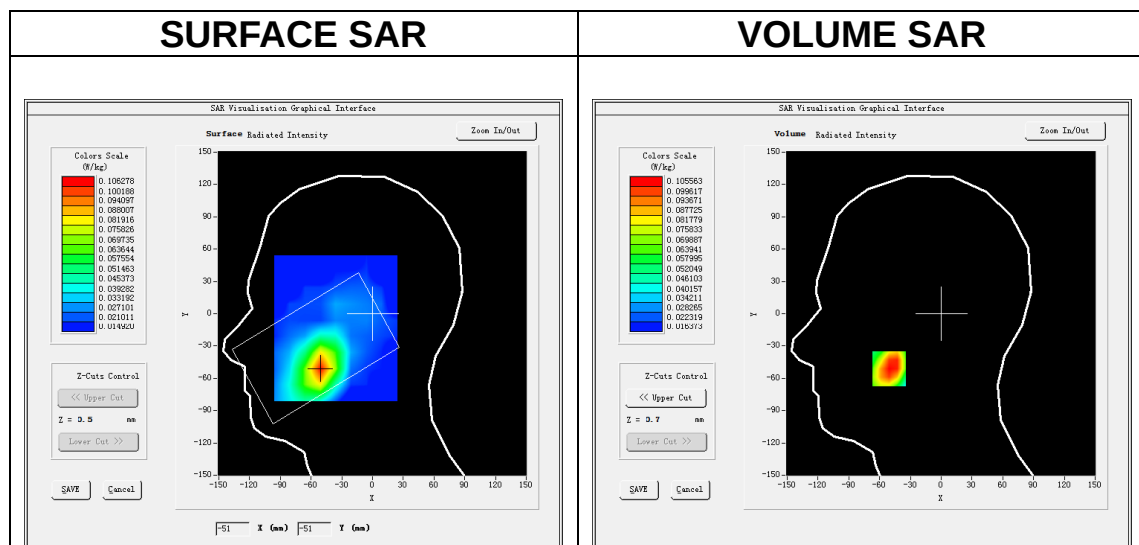
Date of measurement: 22/10/2024

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>FDDBand66</u>
Channels	<u>Middle</u>
Signal	<u>(Crest factor: 1.0)</u>
ConvF	<u>2.51</u>

B. SAR Measurement Results

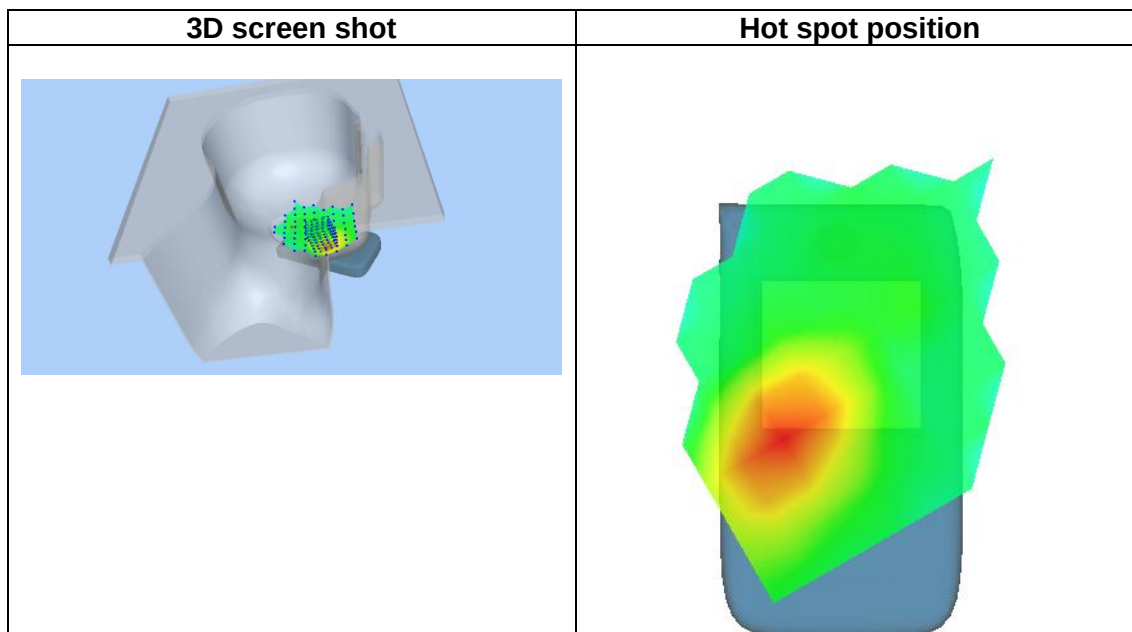
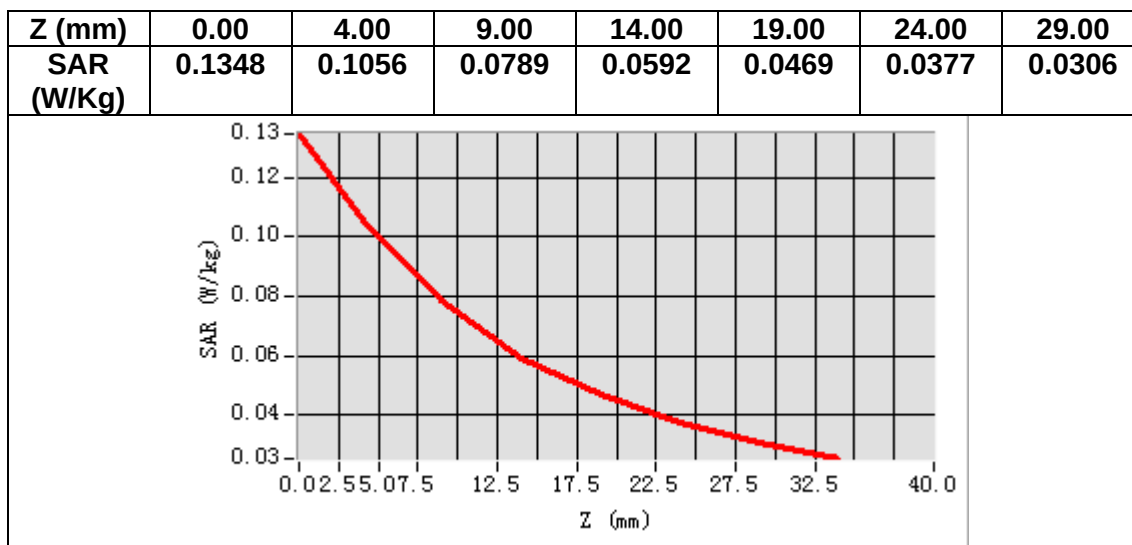
Frequency (MHz)	1745.000000
Relative permittivity (real part)	39.651207
Relative permittivity (imaginary part)	13.620289
Conductivity (S/m)	1.320411
Variation (%)	3.960000



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

SAR Peak: 0.15 W/kg

SAR 10g (W/Kg)	0.068811
SAR 1g (W/Kg)	0.102984



MEASUREMENT 32

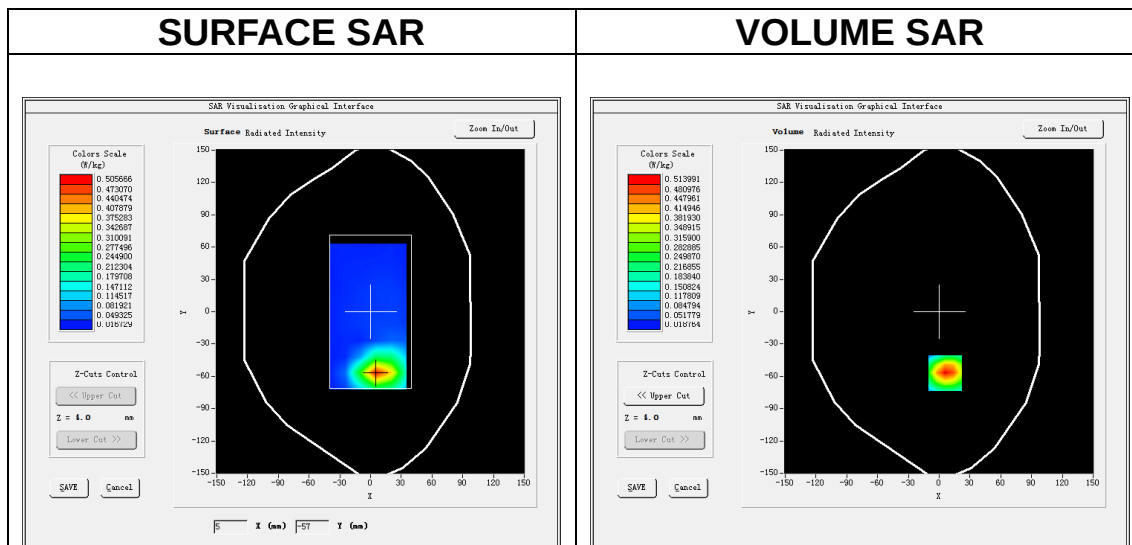
Date of measurement: 22/10/2024

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>FDDBand66</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>(Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.51</u>

B. SAR Measurement Results

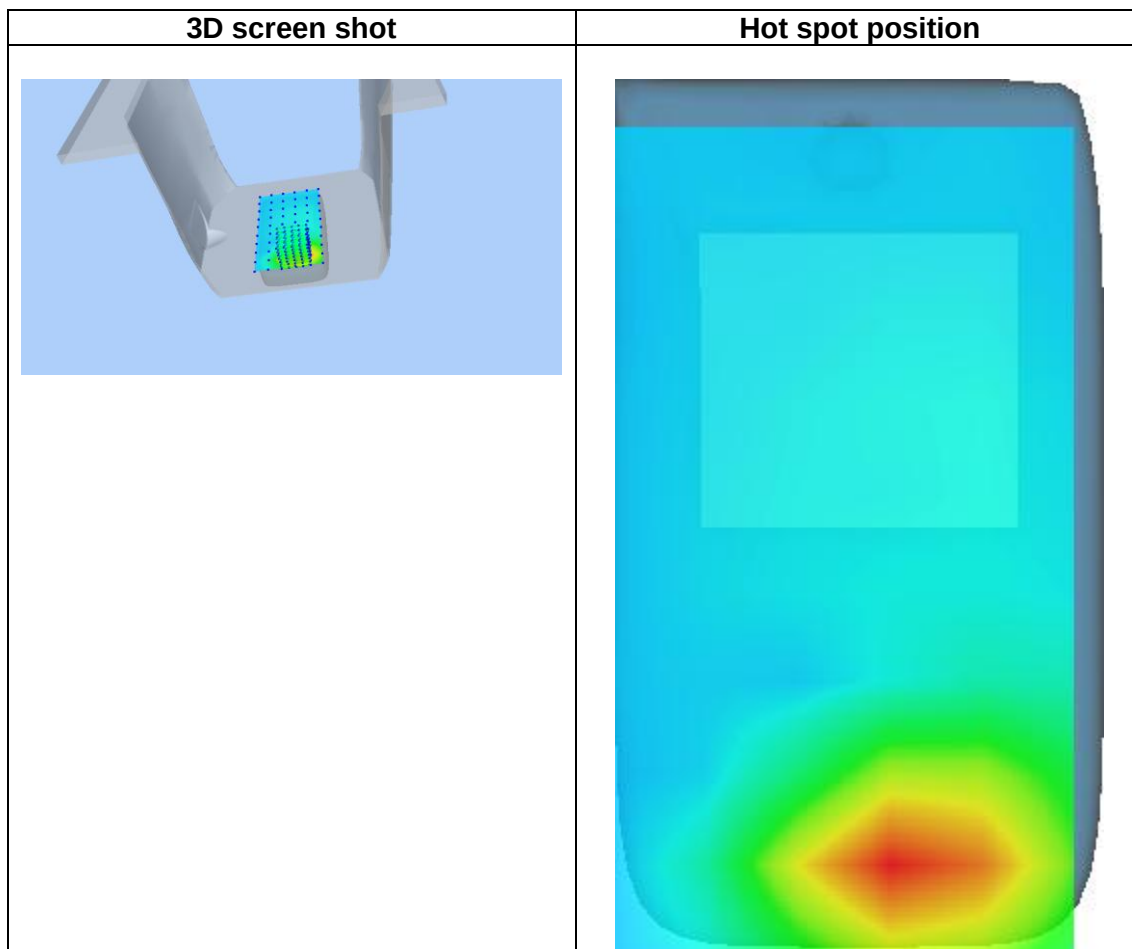
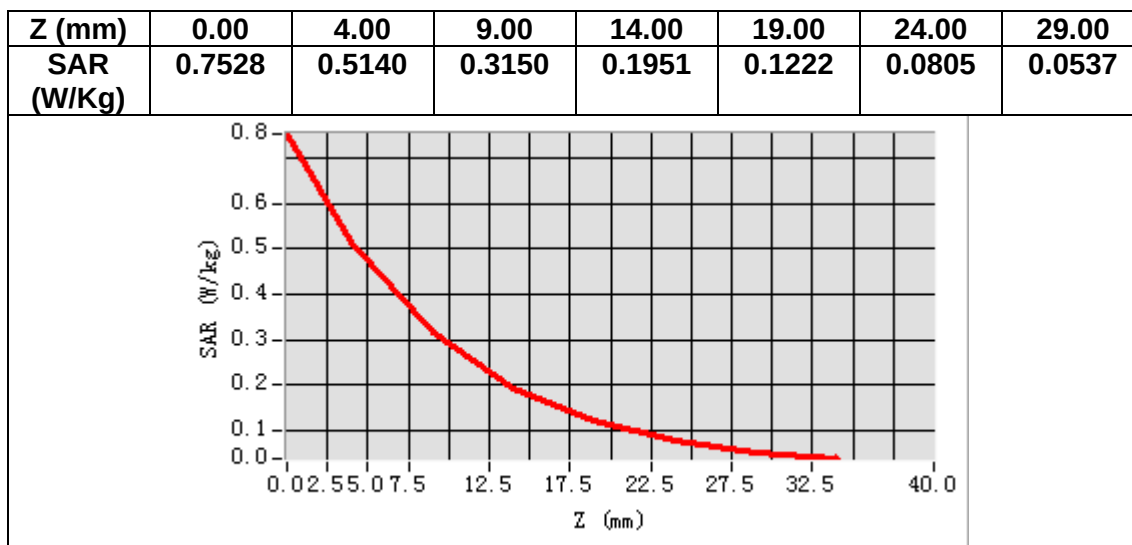
Frequency (MHz)	1745.000000
Relative permittivity (real part)	39.651207
Relative permittivity (imaginary part)	13.620289
Conductivity (S/m)	1.320411
Variation (%)	0.740000



Maximum location: X=6.00, Y=-57.00

SAR Peak: 0.76 W/kg

SAR 10g (W/Kg)	0.266904
SAR 1g (W/Kg)	0.483280



14. Appendix D. Calibration Certificate

Table of contents
E Field Probe - 4024-EPGO-442
750 MHz Dipole - SN 03/15 DIP 0G750-355
835 MHz Dipole - SN 03/15 DIP 0G835-347
1800 MHz Dipole - SN 03/15 DIP 1G800-349
1900 MHz Dipole - SN 03/15 DIP 1G900-350
2450 MHz Dipole - SN 03/15 DIP 2G450-352
2600 MHz Dipole - SN 03/15 DIP 2G600-356
5000-6000 MHz Dipole - SN 13/14 WGA 33

DocuSign Envelope ID: 223C1A7C-4751-4B95-8502-1618DC0951E3



COMOSAR E-Field Probe Calibration Report

Ref : ACR.278.12.24.BES.A

SHENZHEN NTEK TESTING TECHNOLOGY CO., LTD.

BUILDING E, FENDA SCIENCE PARK, SANWEI
COMMUNITY, XIXIANG STREET,
BAO'AN DISTRICT, SHENZHEN GUANGDONG, CHINA
MVG COMOSAR DOSIMETRIC E-FIELD PROBE
SERIAL NO.: 4024-EPGO-442

Calibrated at MVG

Z.I. de la pointe du diable

Technopôle Brest Iroise – 295 avenue Alexis de Rochon
29280 PLOUZANE - FRANCE

Calibration date: 10/04/2024



Accreditations #2-6789
Scope available on www.cofrac.fr

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Summary:

This document presents the method and results from an accredited COMOSAR Dosimetric E-Field Probe calibration performed at MVG, using the CALIPROBE test bench, for use with a MVG COMOSAR system only. The test results covered by accreditation are traceable to the International System of Units (SI).

DocuSign Envelope ID: 223C1A7C-4751-4B95-8502-1618DC0951E3



COMOSAR E-FIELD PROBE CALIBRATION REPORT

Ref: ACR.278.12.24.BES.A

	Name	Function	Date	Signature
Prepared by :	Cyrille ONNEE	Measurement Responsible	10/4/2024	
Checked & approved by:	Pedro Ruiz	Technical Manager	10/4/2024	
Authorized by:	Pedro Ruiz	Laboratory Director	10/4/2024	

Assinado por:

Pedro RUIZ

29093B31C46F428...

	Customer Name
Distribution :	SHENZHEN NTEK TESTING TECHNOLOGY CO., LTD.

Issue	Name	Date	Modifications
A	Cyrille ONNEE	10/4/2024	Initial release