

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

Model No.: SERIE M100

Serial Model: N/A

Brand Name: DAMASCO

Report No.: AiTSZ-250718013FW7

FCC ID: 2BQHT-SERIE-M100

Prepared for

DAMASCO TRADING LLC

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TEST RESULT CERTIFICATION

Applicant's name : DAMASCO TRADING LLC
Address : 3847 NE 168TH ST APT 3C NORTH MIAMI BEACH, FLORIDA
..... : 33160 USA

Manufacturer's Name : DAMASCO TRADING LLC
Address : 3847 NE 168TH ST APT 3C NORTH MIAMI BEACH, FLORIDA
..... : 33160 USA

Product description

Product name : Smart phone
Trademark : DAMASCO
Model and/or type reference : SERIE M100
Serial 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 Guangdong Asia Hongke Test Technology Limited. 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..... : AiTSZ-250718013-1

Date of Test

Date (s) of performance of tests..... : Jul. 03, 2025 ~ Jul. 14, 2025

Date of Issue..... : Aug. 05, 2025

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

Reviewed by: Ken Zou
Ken Zou

Approved by: Jack Li
Jack Li

※ ※ **Revision History** ※ ※

REV.	DESCRIPTION	ISSUED DATE	REMARK
Rev.1.0	Initial Test Report Release	Aug. 05, 2025	Jack Li

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1. General Information

1.1. RF exposure limits

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

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

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

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

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

Occupational/Controlled Environments:

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

General Population/Uncontrolled Environments:

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

NOTE
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 as follows.

Band	Max SAR Value Reported(W/kg)		
	1-g Head (Separation distance of 0mm)	1-g Body&Hotspot (Separation distance of 5mm)	Max SAR Summation
GSM850	0.228	0.166	Head: 1.160 Body: 1.241 Hotspot: 1.241
GSM1900	0.404	0.512	
WCDMA Band II	0.553	0.514	
WCDMA Band IV	0.640	0.669	
WCDMA Band V	0.211	0.498	
LTE band 2	0.615	0.530	
LTE band 4	0.406	0.466	
LTE band 5	0.186	0.551	
LTE band 7	0.405	0.535	
2.4GHz WLAN	0.340	0.435	
5.2GHz WLAN	0.384	0.511	
5.8GHz WLAN	0.520	0.572	

NOTE: The Max SAR Summation 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		
Model Name	SERIE M100		
Family Model	N/A		
Model Difference	N/A		
Device Phase	Identical Prototype		
Exposure Category	General population / Uncontrolled environment		
Antenna Type	PIFA Antenna		
Power rating:	DC 3.89V 5000mAh 19.45Wh by Rechargeable Li-ion battery		
Hardware version	M206T_V1		
Software version	N/A		
Device Operating Configurations			
Supporting Mode(s)	GSM850/1900,WCDMABand2/4/5,LTEBand2/4/5/7, WLAN 2.4G/5.2G/5.8G, Bluetooth		
Test Modulation	GSM(GMSK/8PSK), WCDMA(QPSK), LTE(QPSK/16QAM), WLAN(DSSS/OFDM), Bluetooth(GFSK, $\pi/4$ -DQPSK, 8DPSK)		
Device Class	B		
Operating Frequency Range(s)	Band	Tx (MHz)	Rx (MHz)
	GSM 850	824-849	869-894
	GSM 1900	1850-1910	1930-1990
	WCDMA Band 2	1850-1910	1930-1990
	WCDMA Band 4	1710-1755	2110-2155
	WCDMA Band 5	824-849	869-894
	LTE Band 2	1850-1910	1930-1990
	LTE Band 4	1710-1755	2110-2155
	LTE Band 5	824-849	869-894
	LTE Band 7	2500-2570	2620-2690
	WLAN 2.4G	2412-2462	
	WLAN 5.2G	5180-5240	
	WLAN 5.8G	5745-5825	
	Bluetooth	2402-2480	
GPRS Multislot Class(12)	Max Number of Timeslots in Uplink		4
	Max Number of Timeslots in Downlink		4
	Max Total Timeslot		5
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)

1.4. Test specification(s)

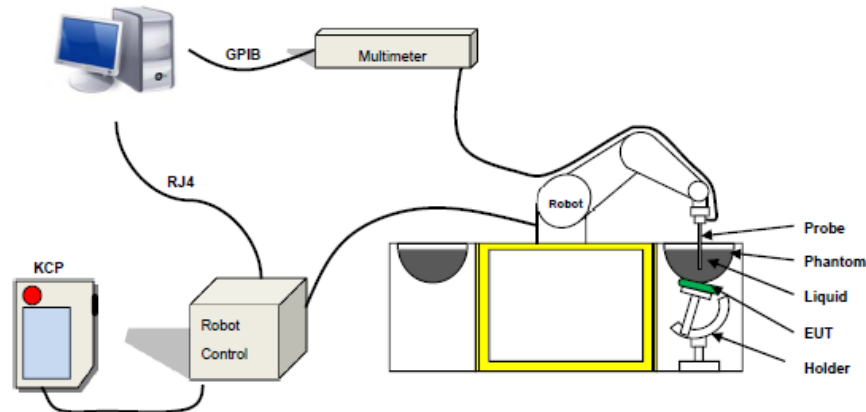
FCC 47 CFR Part 2(2.1093)
IEEE Std 1528-2013
KDB 865664 D01 SAR measurement 100 MHz to 6 GHz
KDB 865664 D02 RF Exposure Reporting
KDB 447498 D01 General RF Exposure Guidance
KDB 248227 D01 802.11 Wi-Fi SAR
KDB 941225 D01 3G SAR Procedures
KDB 941225 D05 SAR for LTE Devices
KDB 941225 D06 Hotspot SAR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

1.5. Ambient Condition

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

2. SAR Measurement System

2.1. SATIMO SAR Measurement Set-up Diagram



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

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

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

2.2. Robot

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



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

2.3. 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 EPGO 0523-403 with following specifications is used.



- Probe Length: 330 mm
- Length of Individual Dipoles: 2 mm
- Maximum external diameter: 8 mm
- Probe Tip External Diameter: 2.5 mm
- Distance between dipole/probe extremity: 1 mm
- Dynamic range: 0.01-100 W/kg
- Probe linearity: 3%
- Axial Isotropy: < 0.10 dB
- Spherical Isotropy: < 0.10 dB
- Calibration range: 150 MHz to 6 GHz for head & body simulating liquid.
- 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 $\pm 0.25\text{dB}$. 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.

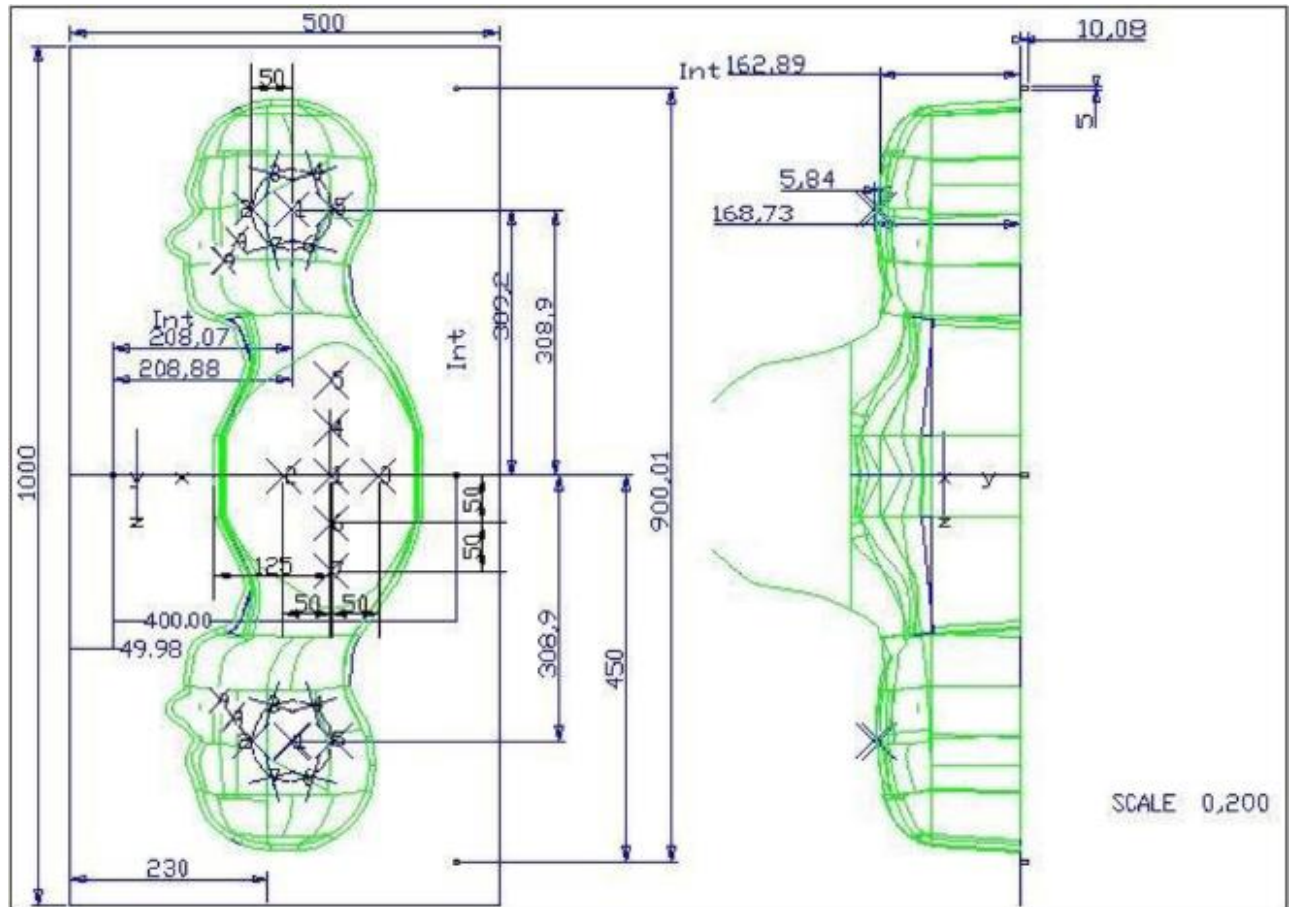
2.4. Phantoms

For the measurements the Specific Anthropomorphic Mannequin (SAM) defined by the IEEE SCC-34/SC2 group is used. The phantom is a polyurethane shell integrated in a wooden table. The thickness of the phantom amounts to 2mm +/- 0.2mm. It enables the dosimetric evaluation of left and right phone usage and includes an additional flat phantom part for the simplified performance check. The phantom set-up includes a cover, which prevents the evaporation of the liquid.



SAM

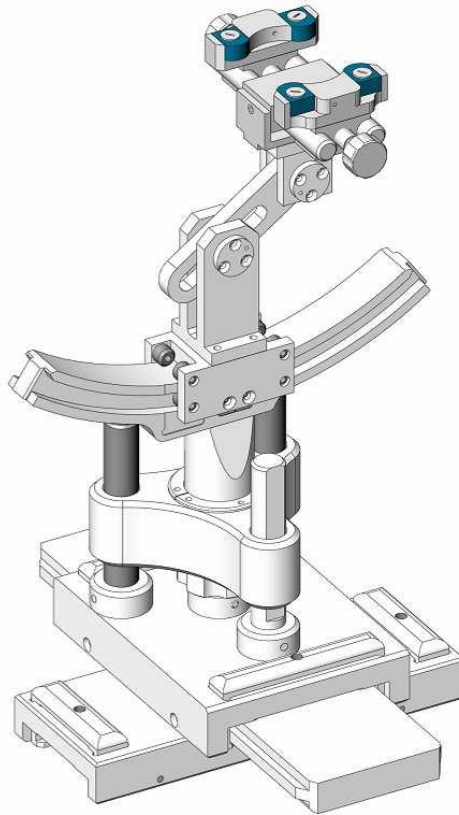
2.5. Technical Data



Left Head(mm)		Right Head(mm)		Flat Part(mm)	
2	2.02	2	2.08	1	2.09
3	2.05	3	2.06	2	2.06
4	2.07	4	2.07	3	2.08
5	2.08	5	2.08	4	2.10
6	2.05	6	2.07	5	2.10
7	2.05	7	2.05	6	2.07
8	2.07	8	2.06	7	2.07
9	2.08	9	2.06	-	-

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

2.6. Device Holder



The SAR in the phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source at 5 mm distance, a positioning uncertainty of ± 0.5 mm would produce a SAR uncertainty of ± 20 %. Accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions in which the devices must be measured are defined by the standards.

2.7. 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	EPGO 0523-403	Sep. 11, 2024	Sep. 10, 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 DI P 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	2300 MHz Dipole	SID2300	SN 03/16 DIP 2G300-358	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	Sep. 23, 2024	Sep. 22, 2025
☒	SCHAFFNER	Power Amplifier	CBA9429	T43605	NCR	NCR
☒	KEITHLEY	Millivoltmeter	2000	4072790	Sep. 23, 2024	Sep. 22, 2025
☒	R&S	Wideband radio communication tester	CMW500	116581	Sep. 23, 2024	Sep. 22, 2025
☒	HP	Network Analyzer	8753D	3410J01136	Sep. 23, 2024	Sep. 22, 2025
☒	Agilent	PSG Analog Signal Generator	N5182A	MY50143009	Sep. 23, 2024	Sep. 22, 2025
☒	Agilent	Power meter	E4419B	MY45102079	Sep. 25,	Sep. 24,

					2024	2025
☒	Agilent	Power meter	E4419B	MY45102140	Sep. 25, 2024	Sep. 24, 2025
☒	Agilent	Power meter	E4419B	MY45102215	Sep. 25, 2024	Sep. 24, 2025
☒	JFW	attenuator	50FPE-006	4360846-494-4	Sep. 25, 2024	Sep. 24, 2025
☒	JFW	attenuator	50FPE-006	4360846-492-1	Sep. 25, 2024	Sep. 24, 2025
☒	JFW	attenuator	50FPE-006	4360846-490-6	Sep. 25, 2024	Sep. 24, 2025
☒	Agilent	Power sensor	8481A	MY41097697	Sep. 25, 2024	Sep. 24, 2025
☒	Agilent	Power sensor	8481A	MY41097696	Sep. 25, 2024	Sep. 24, 2025
☒	MCLI/USA	Directional Coupler	CB11-20	0D2L51502	Sep. 23, 2024	Sep. 22, 2025
☒	MVG	SAR Phantom	SSM2	SN 24/11 SAM87	NCR	NCR
☒	MVG	Device Holder	SMPPD	SN 24/11 MSH73	NCR	NCR

3. SAR Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

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

<SAR measurement>

- (a) Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT Wi-Fi/BT continuously transmission, at maximum RF power, in the highest power channel.
- (b) Place the EUT in the positions as Appendix A demonstrates.
- (c) Set scan area, grid size and other setting on the OPENSAR software.
- (d) Measure SAR results for the highest power channel on each testing position.
- (e) Find out the largest SAR result on these testing positions of each band.
- (f) Measure SAR results for other channels in worst SAR testing position if the reported SAR of highest power channel is larger than 0.8 W/kg.

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

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

3.1. Power Reference

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

3.2. Area scan & Zoom scan

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

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

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

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

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

			≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location			30° ± 1°	20° ± 1°
Maximum area scan spatial resolution: Δx _{Area} , Δy _{Area}			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
			When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: Δx _{Zoom} , Δy _{Zoom}			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: Δz _{Zoom} (n)		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	Δz _{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
		Δz _{Zoom} (n>1): between subsequent points	≤ 1.5 · Δz _{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 <u>reported</u> SAR from the <u>area scan based 1-g SAR estimation</u> procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

3.3. Description of interpolation/extrapolation scheme

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

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

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

3.4. Volumetric Scan

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

3.5. Power Drift

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

4. System Verification Procedure

4.1. Tissue Verification

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

Ingredients (% of weight)	Head Tissue									
	750	835	900	1800	1900	2000	2450	2600	5200	5800
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.



4.1.1. Tissue Dielectric Parameter Check Results

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

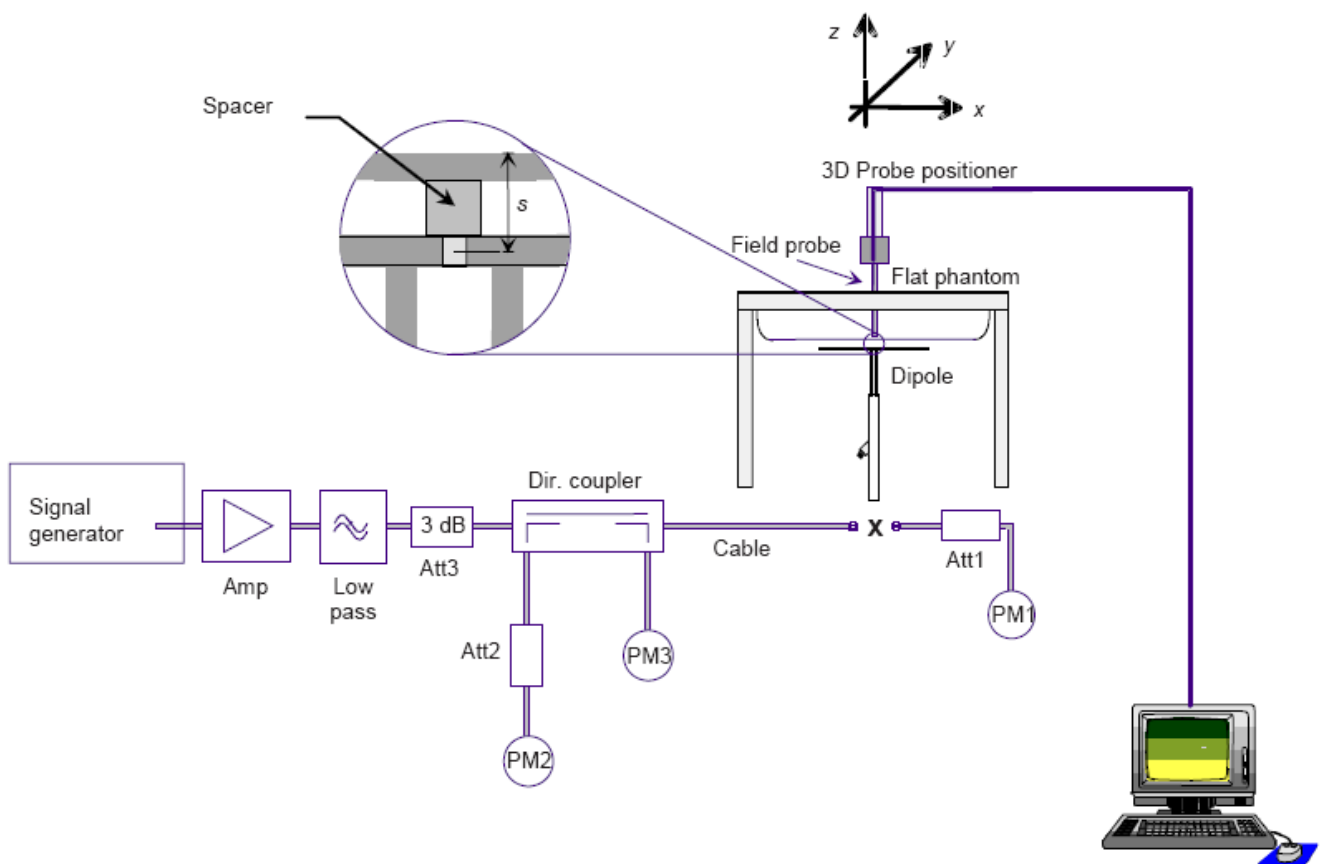
Tissue Type	Measured Frequency (MHz)	Target Tissue		Measured Tissue		Liquid Temp.	Test Date
		$\epsilon_r (\pm 5\%)$	$\sigma \text{ (S/m)} (\pm 5\%)$	ϵ_r	$\sigma \text{ (S/m)}$		
Head 850	835	41.50 (39.43~43.58)	0.90 (0.86~0.95)	42.01	0.94	21.1 °C	Jul. 03, 2025
Head 1800	1800	40.00 (38.00~42.00)	1.40 (1.33~1.47)	39.61	1.41	21.3 °C	Jul. 04, 2025
Head 1900	1900	40.00 (38.00~42.00)	1.40 (1.33~1.47)	41.42	1.39	21.2 °C	Jul. 07, 2025
Head 2450	2450	39.20 (37.24~41.16)	1.80 (1.71~1.89)	40.41	1.82	21.4 °C	Jul. 08, 2025
Head 2600	2600	39.01 (37.06~40.96)	1.96 (1.86~2.06)	39.43	1.99	21.5 °C	Jul. 09, 2025
Head 5200	5200	36.00 (34.20~37.80)	4.66 (4.43~4.89)	37.40	4.51	21.6 °C	Jul. 10, 2025
Head 5800	5800	35.30 (33.54~37.07)	5.27 (5.01~5.53)	35.30	5.27	21.2 °C	Jul. 14, 2025

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

4.2. System Verification Procedure

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

The system verification is shown as below picture:



4.2.1. System Verification Results

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

System Verification	Power fed to reference dipole (mW)	Measured SAR Value		Measured SAR (Normalized to 1W)		Target SAR Value (1W)		Deviation (%)		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)	1-g (W/Kg)	10-g (W/Kg)	
835MHz	100	1.011	0.612	10.11	6.12	9.40	6.28	7.55%	-2.55%	Jul. 03, 2025
1800MHz	100	3.832	2.025	38.32	20.25	37.06	20.01	3.40%	1.20%	Jul. 04, 2025
1900MHz	100	4.154	2.153	41.54	21.53	39.69	20.92	4.66%	2.92%	Jul. 07, 2025
2450MHz	100	5.184	2.359	51.84	23.59	50.05	23.80	3.58%	-0.88%	Jul. 08, 2025
2600MHz	100	5.433	2.523	54.33	25.23	54.16	24.85	0.31%	1.53%	Jul. 09, 2025
5200MHz	100	14.712	5.212	147.12	52.12	162.59	56.21	-9.51%	-7.28%	Jul. 10, 2025
5800MHz	100	16.421	5.623	164.21	56.23	182.2	61.32	-9.87%	-8.30%	Jul. 14, 2025

5. 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 .

6. 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.

7. RF Exposure Positions

7.1. Ear and handset reference point

Figure 7.1.1 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”.

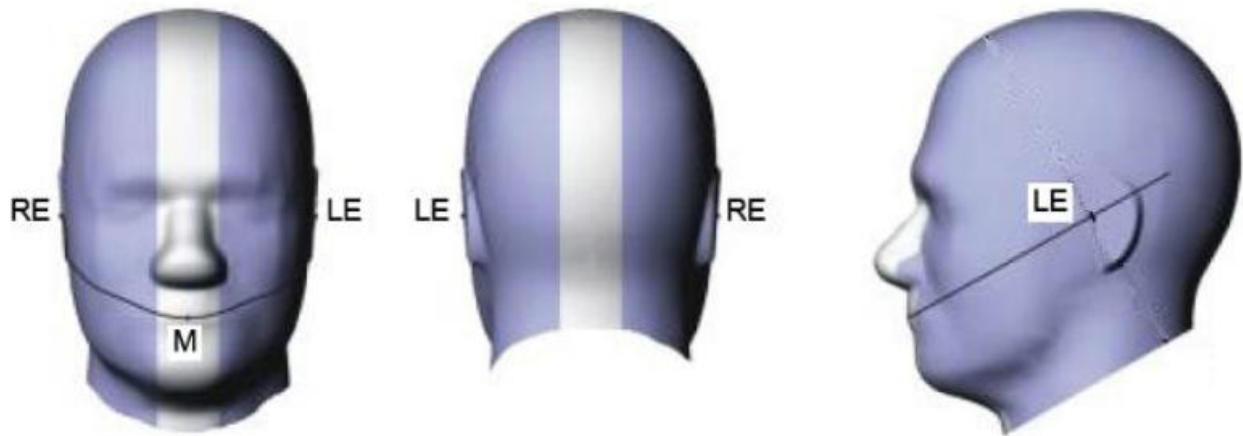


Fig 7.1.1 Front, back, and side views of SAM phantom

7.2. 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 7.2.1 and Figure 7.2.2), 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 7.2.1). 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 7.2.2), 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 7.2.3), 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 7.2.3. The actual rotation angles should be documented in the test report.

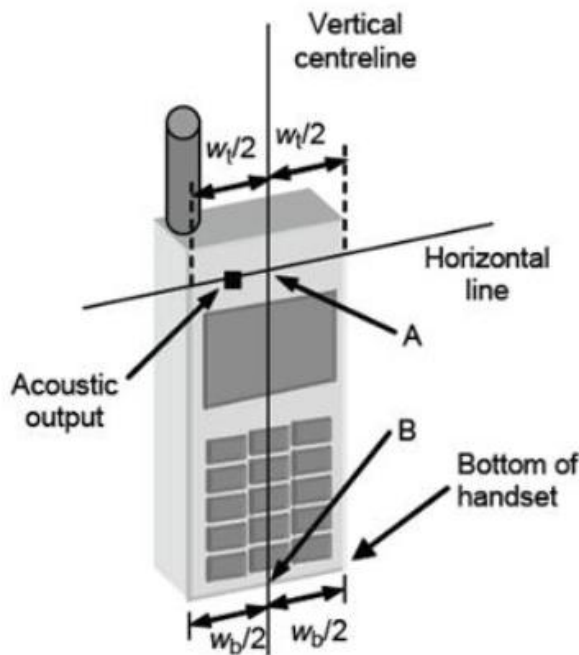


Fig 7.2.1 Handset vertical and horizontal reference lines—fixed case

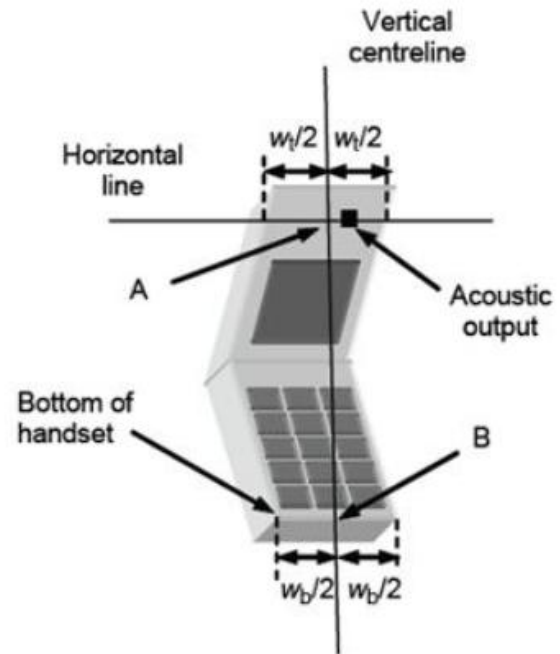


Fig 7.2.2 Handset vertical and horizontal reference lines—“clam-shell case”

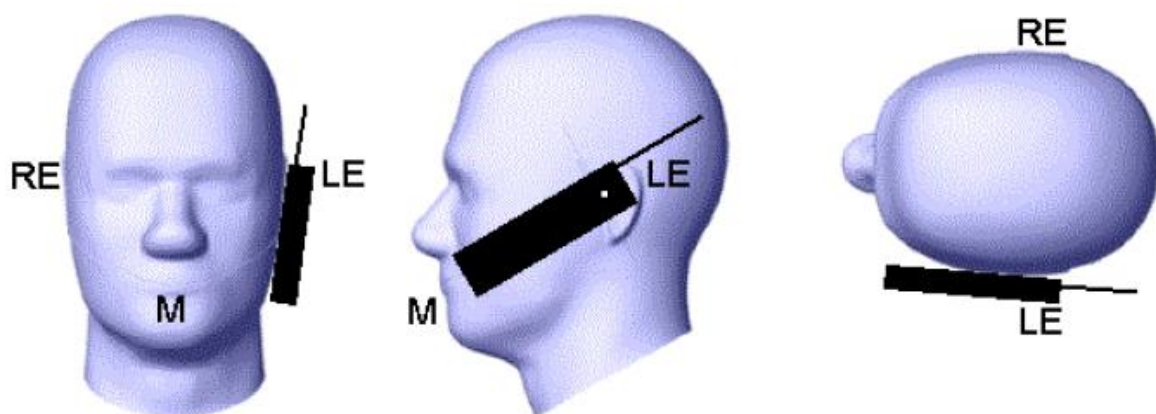


Fig 7.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

7.3. 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 7.3.1).
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 7.3.1 – Tilt position of the wireless device on the left side of SAM

7.4. 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 7.4.1). 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-chip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

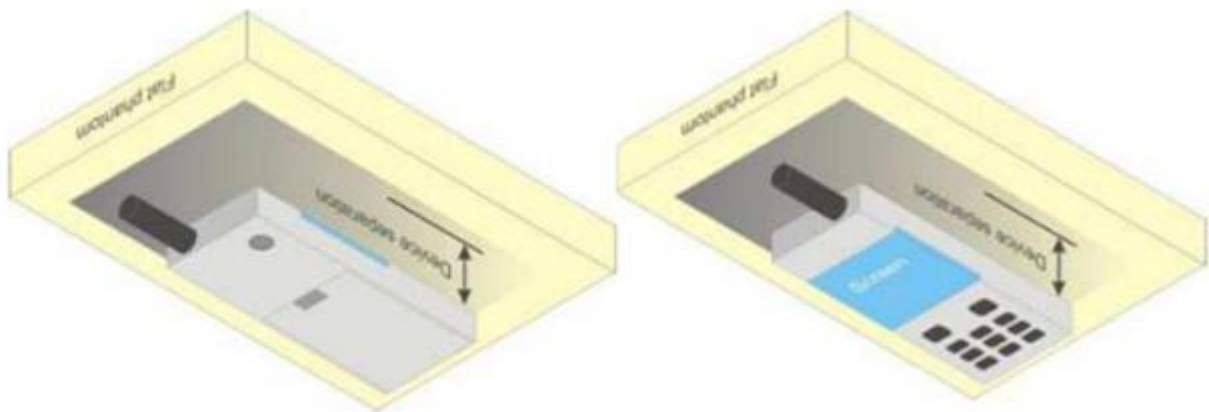


Figure 7.4.1 – Test positions for body-worn devices

7.5. 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.

8. RF Output Power

8.1. GSM Conducted Power

Band GSM850	Burst-Averaged output Power (dBm)				Factor	Frame-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	128	189	251		Tune-up	128	189	251
Frequency (MHz)		824.2	836.4	848.8			824.2	836.4	848.8
GSM (GMSK)	34.00	33.86	33.89	33.97	/	/	/	/	/
GPRS(GMSK,1 Tx slot)	34.00	33.86	33.81	33.89	-9.03	24.97	24.83	24.78	24.86
GPRS(GMSK,2 Tx slot)	33.00	32.89	32.87	32.97	-6.02	26.98	26.87	26.85	26.95
GPRS(GMSK,3 Tx slot)	31.00	30.70	30.66	30.78	-4.26	26.74	26.44	26.40	26.52
GPRS(GMSK,4 Tx slot)	30.00	29.47	29.40	29.52	-3.01	26.99	26.46	26.39	26.51
GPRS(EDGE,1 Tx slot)	27.00	26.70	26.75	26.78	-9.03	17.97	17.67	17.72	17.75
GPRS(EDGE,2 Tx slot)	26.00	25.66	25.88	25.80	-6.02	19.98	19.64	19.86	19.78
GPRS(EDGE,3 Tx slot)	24.00	23.86	23.70	23.94	-4.26	19.74	19.60	19.44	19.68
GPRS(EDGE,4 Tx slot)	23.00	22.55	22.59	22.63	-3.01	19.99	19.54	19.58	19.62

Band GSM1900	Burst-Averaged output Power (dBm)				Factor	Frame-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	512	661	810		Tune-up	512	661	810
Frequency (MHz)		1850.2	1880	1909.8			1850.2	1880	1909.8
GSM (GMSK)	31.50	30.70	31.05	30.96	/	/	/	/	/
GPRS(GMSK,1 Tx slot)	31.50	30.71	31.03	30.93	-9.03	21.68	22.00	21.90	21.68
GPRS(GMSK,2 Tx slot)	30.50	29.96	30.33	30.19	-6.02	23.94	24.31	24.17	23.94
GPRS(GMSK,3 Tx slot)	29.00	28.12	28.52	28.32	-4.26	23.86	24.26	24.06	23.86
GPRS(GMSK,4 Tx slot)	28.00	27.16	27.59	27.38	-3.01	24.15	24.58	24.37	24.15
GPRS(EDGE,1 Tx slot)	26/28/26	25.90	27.54	25.80	-9.03	16.87	18.51	16.77	16.87
GPRS(EDGE,2 Tx slot)	25.00	24.93	24.92	24.83	-6.02	18.91	18.90	18.81	18.91
GPRS(EDGE,3 Tx slot)	23.50	22.88	23.08	22.78	-4.26	18.62	18.82	18.52	18.62
GPRS(EDGE,4 Tx slot)	22/24/22	21.70	23.81	21.70	-3.01	18.69	20.80	18.69	18.69

Note:

Remark: GPRS, CS4 coding scheme. EGPRS, MCS5 coding scheme.

Multi-Slot Class 8, Support Max 4 downlink, 1 uplink, 5 working link

Multi-Slot Class 10, Support Max 4 downlink, 2 uplink, 5 working link

Multi-Slot Class 12, Support Max 4 downlink, 4 uplink, 5 working link

SAR testing was performed on the maximum frame-averaged power mode.

The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum

Burst-averaged power based on time slots. The calculated method is shown as below:

Frame-averaged power = Burst averaged power (1 TX Slot) – 9.03 dB

Frame-averaged power = Burst averaged power (2 TX Slots) – 6.02 dB

Frame-averaged power = Burst averaged power (3 TX Slots) - 4.26 dB

Frame-averaged power = Burst averaged power (4 TX Slots) – 3.01 dB

8.2. WCDMA Conducted Power

The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification. A summary of these settings are illustrated below:

1. Release99 Setup Configuration

Mode	Subtest	Rel99
WCDMA General Settings	Loopback Mode	Test Mode 1
	Rel99 RMC	12.2kbps RMC
	Power Control Algorithm	Algorithm1
	β_c/β_d	8/15

2. HSDPA Setup Configuration

	Mode	HSDPA	HSDPA	HSDPA	HSDPA
	Subtest	1	2	3	4
WCDMA General Settings	Loopback Mode	Test Mode 1			
	Rel99 RMC	12.2kbps RMC			
	HSDPA FRC	H-Set1			
	Power Control Algorithm	Algorithm 2			
	β_c	2/15	12/15	15/15	15/15
	β_d	15/15	15/15	8/15	4/15
	Bd (SF)	64			
	β_c/β_d	2/15	12/15	15/8	15/4
HSDPA Specific Settings	β_{hs}	4/15	24/15	30/15	30/15
	D_{ACK}	8			
	D_{NAK}	8			
	DCQI	8			
	Ack-Nack repetition factor	3			
	CQI Feedback (Table 5.2B.4)	4ms			
	CQI Repetition Factor (Table 5.2B.4)	2			
	$A_{hs} = \beta_{hs}/\beta_c$	30/15			

3. HSUPA Setup Configuration

	Mode	HSUPA	HSUPA	HSUPA	HSUPA	HSUPA
	Subtest	1	2	3	4	5
WCDMA General Settings	Loopback Mode	Test Mode 1				
	Rel99 RMC	12.2kbps RMC				
	HSDPA FRC	H-Set1				
	HSUPA Test	HSUPA Loopback				
	Power Control Algorithm	Algorithm1				
	β_c	11/15	6/15	15/15	2/15	15/15
	β_d	15/15	15/15	9/15	15/15	15/15
	β_{ec}	209/225	12/15	30/15	2/15	24/15
	β_c/β_d	11/15	6/15	15/9	2/15	15/15
	β_{hs}	22/15	12/15	30/15	4/15	30/15
	β_{ed}	1309/225	94/75	47/15 47/15	56/75	134/15
	CM (dB)	1.0	3.0	2.0	3.0	1.0
HSDPA Specific Settings	D_{ACK}	8				
	D_{NAK}	8				
	DCQI	8				
	Ack-Nack repetition factor	3				
	CQI Feedback (Table 5.2B.4)	4ms				

HSUPA Specific Settings	CQI Repetition Factor (Table 5.2B.4)	2				
	Ahs = β_{hs}/β_c	30/15				
	D E-DPCCH	6	8	8	5	7
	DHARQ	0	0	0	0	0
	AG Index	20	12	15	17	21
	ETFCI (from 34.121 Table C.11.1.3)	75	67	92	71	81
	Associated Max UL Data Rate kbps	242.1	174.9	482.8	205.8	308.9

4. WCDMA Conducted Power Results

Choose the highest output power mode RMC 12.2Kbps for Band VIII/I at middle channel to test SAR and determine the worst configuration for further high/low channel test.

WCDMA Band II	Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	9262	9400	9538
Frequency (MHz)		1852.4	1880	1907.6
RMC12.2K	25.00	24.50	24.51	24.47
HSDPA Sub 1	22.50	22.34	22.38	22.27
HSDPA Sub 2	22.50	22.35	22.35	22.26
HSDPA Sub 3	22.50	22.33	22.35	22.27
HSDPA Sub 4	22.50	22.35	22.35	22.27
HSUPA Sub 1	20.00	19.71	19.56	19.99
HSUPA Sub 2	20.00	19.53	19.74	19.70
HSUPA Sub 3	20.50	19.53	20.02	19.67
HSUPA Sub 4	20.00	19.72	19.72	19.69
HSUPA Sub 5	20.00	19.91	19.95	19.85

WCDMA Band IV	Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	1312	1413	1513
Frequency (MHz)		1712.4	1732.6	1752.6
RMC12.2K	24.50	23.68	23.84	24.04
HSDPA Sub 1	22.00	21.43	21.57	21.78
HSDPA Sub 2	22.00	21.43	21.58	21.77
HSDPA Sub 3	22.00	21.44	21.57	21.77
HSDPA Sub 4	22.00	21.44	21.57	21.75
HSUPA Sub 1	19.50	18.91	19.34	19.48
HSUPA Sub 2	20.00	19.21	19.04	19.58
HSUPA Sub 3	19.50	19.20	19.27	19.19
HSUPA Sub 4	19.50	18.91	19.35	19.23
HSUPA Sub 5	20.50	19.03	20.24	20.36

WCDMA Band V	Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	4132	4182	4233
Frequency (MHz)		826.4	836.4	846.6
RMC12.2K	25.00	24.40	24.52	24.40
HSDPA Sub 1	22.50	22.14	22.18	22.12
HSDPA Sub 2	22.50	22.14	22.17	22.09
HSDPA Sub 3	22.50	22.17	22.18	22.12
HSDPA Sub 4	22.50	22.15	22.18	22.11
HSUPA Sub 1	20.00	19.92	19.56	19.61
HSUPA Sub 2	20.00	19.66	19.70	19.54
HSUPA Sub 3	20.00	19.93	19.52	19.56
HSUPA Sub 4	20.00	19.93	19.67	19.59
HSUPA Sub 5	20.50	20.09	19.89	20.38

8.3. LTE Conducted Power

1. The following tests were conducted according to the test requirements outlines in 3GPP TS 36.521-1 specification. A summary of these configurations are illustrated below:

Test Parameters for Channel Bandwidths				
Ch BW	Downlink Configuration	Mod'n	Uplink Configuration	
	N/A for Max UE output power testing		RB allocation	
			FDD	TDD
1.4MHz		QPSK	1	1
1.4MHz		QPSK	5	5
3MHz		QPSK	1	1
3MHz		QPSK	4	4
5MHz		QPSK	1	1
5MHz		QPSK	8	8
10MHz		QPSK	1	1
10MHz		QPSK	12	12
15MHz		QPSK	1	1
15MHz		QPSK	16	16
20MHz		QPSK	1	1
20MHz		QPSK	18	18

Note 1: Test Channel Bandwidths are checked separately for each E-UTRA band, the applicable channel bandwidths are specified in Table 5.4.2.1-1.

Note 2: For E-UTRA bands not applied with Note 2 in Table 6.2.2.3-1:

- The 1 RB allocation shall be tested at RB#0 for low and mid range, RB #max for high range test frequency.
- The RBstart of non-1RB allocation shall be RB #0 for low and mid range, RB# (max +1 - RB allocation) for high range test frequency.

Note 3: For E-UTRA bands applied with Note 2 in Table 6.2.2.3-1:

- If the test channel bandwidth is larger than 4MHz, then the 1 RB allocation shall be tested at both RB #0 and RB #max.
- If the test channel bandwidth is smaller or equal to 4MHz, then the 1 RB allocation shall be tested at RB #0.
- If the test channel bandwidth = (FUL_high - FUL_low) specified by the operating band, then only one frequency range shall be tested and the 1 RB allocation shall be tested at RB #0, RB # $\left\lceil N_{RB}^{UL} / 2 \right\rceil$ and RB #max.
- For non-1RB allocation, test frequency is middle range, and the RBstart shall be RB #0.

2. LTE Conducted Power Results

LTE output list

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18607/1850.7	18900/1880	19193/1909.3
LTE Band 2	1.4MHz	QPSK	1	0	24.50	23.93	24.02	23.99
			1	2	24.50	24.03	24.09	24.10
			1	5	24.50	23.94	23.99	24.03
			3	0	24.50	24.00	24.10	24.03
			3	1	24.50	24.04	24.11	24.07
			3	2	24.50	23.98	24.08	23.98
			6	0	23.50	23.08	23.15	23.04
		16QAM	1	0	23.50	23.11	23.04	22.93
			1	2	23.50	23.23	23.12	23.03
			1	5	23.50	23.15	23.03	22.97
			3	0	23.50	22.97	23.27	22.97
			3	1	23.50	23.00	23.31	22.99
			3	2	23.50	22.98	23.28	22.94
			6	0	22.50	22.06	22.11	21.95
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18615/1851.5	18900/1880	19185/1908.5
LTE Band 2	3MHz	QPSK	1	0	24.50	24.06	24.13	24.07
			1	7	24.50	24.19	24.28	24.23
			1	14	24.50	24.08	24.11	24.08
			8	0	23.50	23.06	23.19	23.10
			8	4	23.50	23.09	23.20	23.14
			8	7	23.50	23.04	23.18	23.08
			15	0	23.50	23.03	23.16	23.07
		16QAM	1	0	24.00	23.03	23.29	23.51
			1	7	24.00	23.19	23.50	23.67
			1	14	24.00	23.06	23.32	23.48
			8	0	22.50	22.08	22.14	22.27
			8	4	22.50	22.14	22.20	22.30
			8	7	22.50	22.08	22.15	22.23
			15	0	22.50	22.05	22.11	22.15
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18625/1852.5	18900/1880	19175/1907.5
LTE Band 2	5MHz	QPSK	1	0	24.50	23.90	24.02	23.96
			1	12	24.50	24.10	24.17	24.14
			1	24	24.50	23.95	24.02	23.99
			12	0	23.50	23.00	23.15	23.09
			12	6	23.50	23.09	23.25	23.11
			12	11	23.50	23.03	23.13	23.05
			25	0	23.50	22.99	23.16	23.05
		16QAM	1	0	23.50	22.96	23.29	22.78
			1	12	23.50	23.19	23.43	22.94
			1	24	23.50	23.05	23.29	22.82
			12	0	22.50	21.93	22.16	22.03

			12	6	22.50	22.00	22.23	22.13
			12	11	22.50	22.00	22.14	22.04
			25	0	22.50	21.97	22.13	22.13
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	24.50	24.02	24.03	24.03
			1	24	24.50	24.20	24.25	24.20
			1	49	24.50	24.04	24.05	24.08
			25	0	23.50	23.02	23.15	23.14
			25	12	23.50	23.09	23.18	23.05
			25	24	23.50	23.05	23.16	23.04
			50	0	23.50	23.04	23.19	23.05
		16QAM	1	0	24.00	23.00	23.19	23.48
			1	24	24.00	23.17	23.44	23.66
			1	49	24.00	23.07	23.26	23.49
			25	0	22.50	22.10	22.14	22.21
			25	12	22.50	22.13	22.17	22.13
			25	24	22.50	22.13	22.17	22.10
			50	0	22.50	22.07	22.15	22.12
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	24.50	23.89	23.99	23.94
			1	37	24.50	24.12	24.15	24.09
			1	74	24.50	23.95	24.01	23.97
			36	0	23.50	23.10	23.18	23.19
			36	18	23.50	23.12	23.22	23.16
			36	37	23.50	23.17	23.24	23.10
			75	0	23.50	23.13	23.23	23.13
		16QAM	1	0	24.00	23.21	23.15	23.45
			1	37	24.00	23.45	23.36	23.58
			1	74	24.00	23.29	23.18	23.40
			36	0	22.50	22.02	22.14	22.19
			36	18	22.50	22.06	22.18	22.17
			36	37	22.50	22.09	22.15	22.09
			75	0	22.50	22.09	22.18	22.13
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	24.50	23.68	23.81	23.79
			1	49	24.50	24.21	24.30	24.24
			1	99	24.50	23.80	23.88	23.84
			50	0	23.50	23.09	23.14	23.06
			50	24	23.50	23.11	23.14	23.07
			50	49	23.50	23.05	23.16	22.85
			100	0	23.50	23.05	23.15	23.01
		16QAM	1	0	24.00	23.21	23.05	23.07
			1	49	24.00	23.71	23.48	23.50
			1	99	24.00	23.36	23.07	23.05
			50	0	22.50	22.00	22.10	22.08

			50	24	22.50	22.10	22.12	22.12
			50	49	22.50	22.02	22.14	21.88
			100	0	22.50	22.04	22.13	22.04

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	24.00	23.35	23.42	23.67
			1	2	24.00	23.47	23.51	23.78
			1	5	24.00	23.37	23.43	23.66
			3	0	24.00	23.39	23.48	23.78
			3	1	24.00	23.41	23.53	23.80
			3	2	24.00	23.41	23.49	23.77
			6	0	23.00	22.46	22.57	22.82
		16QAM	1	0	23.00	22.37	22.61	22.73
			1	2	23.00	22.49	22.71	22.80
			1	5	23.00	22.45	22.61	22.72
			3	0	23.00	22.47	22.50	22.94
			3	1	23.00	22.47	22.49	22.99
			3	2	23.00	22.45	22.45	22.96
			6	0	22.00	21.37	21.55	21.82
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		19965/1711.5	20175/1732.5	20385/1753.5
LTE Band 4	3MHz	QPSK	1	0	24.00	23.46	23.43	23.65
			1	7	24.00	23.56	23.56	23.81
			1	14	24.00	23.42	23.42	23.64
			8	0	23.00	22.46	22.51	22.71
			8	4	23.00	22.49	22.52	22.76
			8	7	23.00	22.43	22.47	22.72
			15	0	23.00	22.39	22.48	22.72
		16QAM	1	0	23.50	22.49	22.64	23.20
			1	7	23.50	22.60	22.72	23.35
			1	14	23.50	22.41	22.61	23.21
			8	0	22.00	21.48	21.44	21.85
			8	4	22.00	21.49	21.47	21.86
			8	7	22.00	21.45	21.44	21.86
			15	0	22.00	21.46	21.40	21.76
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	24.00	23.30	23.35	23.52
			1	12	24.00	23.41	23.46	23.68
			1	24	24.00	23.30	23.35	23.63
			12	0	23.00	22.39	22.45	22.66
			12	6	23.00	22.47	22.50	22.78
			12	11	23.00	22.43	22.43	22.72
			25	0	23.00	22.40	22.43	22.72
			1	0	23.00	22.45	22.60	22.44
		16QAM	1	12	23.00	22.55	22.73	22.58
			1	24	23.00	22.43	22.61	22.52

			12	0	22.00	21.33	21.45	21.62
			12	6	22.00	21.39	21.49	21.74
			12	11	22.00	21.34	21.41	21.63
			25	0	22.00	21.39	21.45	21.72
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20000/1715	20175/1732.5	20350/1750
LTE Band 4	10MHz	QPSK	1	0	24.00	23.39	23.39	23.51
			1	24	24.00	23.60	23.62	23.73
			1	49	24.00	23.37	23.42	23.65
			25	0	23.00	22.40	22.52	22.68
			25	12	23.00	22.42	22.49	22.65
			25	24	23.00	22.50	22.44	22.74
			50	0	23.00	22.43	22.45	22.69
		16QAM	1	0	23.50	22.40	22.60	23.08
			1	24	23.50	22.61	22.76	23.26
			1	49	23.50	22.36	22.61	23.21
			25	0	22.00	21.46	21.52	21.72
			25	12	22.00	21.49	21.49	21.69
			25	24	22.00	21.58	21.45	21.75
			50	0	22.00	21.46	21.48	21.68
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	24.00	23.29	23.29	23.38
			1	37	24.00	23.39	23.47	23.58
			1	74	24.00	23.29	23.35	23.56
			36	0	23.00	22.44	22.53	22.70
			36	18	23.00	22.52	22.62	22.71
			36	37	23.00	22.57	22.56	22.70
			75	0	23.00	22.51	22.55	22.70
		16QAM	1	0	23.50	22.64	22.49	22.92
			1	37	23.50	22.78	22.62	23.11
			1	74	23.50	22.63	22.55	23.11
			36	0	22.00	21.35	21.46	21.66
			36	18	22.00	21.44	21.50	21.69
			36	37	22.00	21.52	21.49	21.70
			75	0	22.00	21.43	21.48	21.68
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	24.00	23.06	23.12	23.13
			1	49	24.00	23.53	23.62	23.74
			1	99	24.00	23.12	23.26	23.42
			50	0	23.00	22.27	22.40	22.62
			50	24	23.00	22.44	22.47	22.62
			50	49	23.00	22.49	22.29	22.53
			100	0	23.00	22.39	22.34	22.62
		16QAM	1	0	23.50	22.64	22.32	22.41
			1	49	23.50	23.05	22.81	23.05
			1	99	23.50	22.65	22.49	22.72

			50	0	22.00	21.25	21.41	21.61
			50	24	22.00	21.41	21.45	21.62
			50	49	22.00	21.48	21.32	21.53
			100	0	22.00	21.37	21.37	21.62

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20407/824.7	20525/836.5	20643/848.3
LTE Band 5	1.4MHz	QPSK	1	0	25.00	24.47	24.46	24.47
			1	2	25.00	24.55	24.55	24.60
			1	5	25.00	24.50	24.47	24.48
			3	0	25.00	24.48	24.50	24.49
			3	1	25.00	24.54	24.52	24.52
			3	2	25.00	24.48	24.49	24.50
			6	0	24.00	23.57	23.60	23.56
		16QAM	1	0	24.00	23.62	23.43	23.43
			1	2	24.00	23.71	23.50	23.58
			1	5	24.00	23.65	23.43	23.52
			3	0	24.00	23.47	23.65	23.55
			3	1	24.00	23.47	23.70	23.56
			3	2	24.00	23.48	23.66	23.51
			6	0	23.00	22.55	22.54	22.46
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20415/825.5	20525/836.5	20635/847.5
LTE Band 5	3MHz	QPSK	1	0	25.00	24.54	24.48	24.52
			1	7	25.00	24.71	24.66	24.63
			1	14	25.00	24.53	24.49	24.49
			8	0	24.00	23.62	23.57	23.54
			8	4	24.00	23.64	23.63	23.63
			8	7	24.00	23.59	23.57	23.57
			15	0	24.00	23.53	23.56	23.54
		16QAM	1	0	24.50	23.56	23.67	24.04
			1	7	24.50	23.72	23.82	24.14
			1	14	24.50	23.54	23.66	23.97
			8	0	23.00	22.62	22.53	22.68
			8	4	23.00	22.67	22.56	22.74
			8	7	23.00	22.62	22.51	22.70
			15	0	23.00	22.56	22.51	22.59
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20425/826.5	20525/836.5	20625/846.5
LTE Band 5	5MHz	QPSK	1	0	25.00	24.40	24.34	24.38
			1	12	25.00	24.54	24.50	24.49
			1	24	25.00	24.39	24.37	24.38
			12	0	24.00	23.50	23.49	23.43
			12	6	24.00	23.59	23.54	23.55
			12	11	24.00	23.59	23.44	23.51
			25	0	24.00	23.56	23.47	23.45
		16QAM	1	0	24.00	23.48	23.20	23.51
			1	12	24.00	23.65	23.34	23.61
			1	24	24.00	23.51	23.25	23.46

			12	0	23.00	22.43	22.45	22.38
			12	6	23.00	22.53	22.46	22.48
			12	11	23.00	22.58	22.37	22.44
			25	0	23.00	22.51	22.48	22.45
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	25.00	24.44	24.42	24.45
			1	24	25.00	24.59	24.59	24.57
			1	49	25.00	24.47	24.42	24.44
			25	0	24.00	23.32	23.58	23.50
			25	12	24.00	23.45	23.51	23.54
			25	24	24.00	23.47	23.39	23.59
			50	0	24.00	23.36	23.51	23.54
		16QAM	1	0	24.50	23.45	23.60	23.92
			1	24	24.50	23.56	23.78	24.09
			1	49	24.50	23.42	23.62	23.90
			25	0	23.00	22.39	22.55	22.51
			25	12	23.00	22.52	22.51	22.53
			25	24	23.00	22.52	22.42	22.63
			50	0	23.00	22.40	22.49	22.55

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	23.50	23.23	23.04	22.95
			1	12	23.50	23.33	23.20	23.16
			1	24	23.50	23.24	23.04	23.02
			12	0	22.50	22.31	22.12	22.02
			12	6	22.50	22.35	22.18	22.10
			12	11	22.50	22.31	22.12	22.02
			25	0	22.50	22.28	22.09	22.02
		16QAM	1	0	23.00	22.41	21.92	21.98
			1	12	23.00	22.52	22.03	22.15
			1	24	23.00	22.42	21.89	22.02
			12	0	21.50	21.28	21.09	20.97
			12	6	21.50	21.35	21.16	21.04
			12	11	21.50	21.26	21.03	20.97
			25	0	21.50	21.24	21.13	21.00
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	23.50	23.29	23.13	22.99
			1	24	23.50	23.49	23.29	23.19
			1	49	23.50	23.31	23.08	23.10
			25	0	22.50	22.27	22.19	22.00
			25	12	22.50	22.30	22.16	22.04
			25	24	22.50	22.32	22.09	22.07
			50	0	22.50	22.29	22.12	22.01
		16QAM	1	0	23.00	22.21	22.26	22.42
			1	24	23.00	22.43	22.44	22.59

			1	49	23.00	22.25	22.25	22.47
			25	0	21.50	21.33	21.19	21.02
			25	12	21.50	21.37	21.16	21.05
			25	24	21.50	21.39	21.08	21.08
			50	0	21.50	21.28	21.12	20.99
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	23.50	23.20	23.03	22.89
			1	37	23.50	23.30	23.16	23.04
			1	74	23.50	23.15	23.02	22.98
			36	0	22.50	22.32	22.22	22.07
			36	18	22.50	22.33	22.22	22.13
			36	37	22.50	22.36	22.16	22.17
			75	0	22.50	22.37	22.19	22.09
		16QAM	1	0	23.00	22.44	22.20	22.32
			1	37	23.00	22.58	22.23	22.48
			1	74	23.00	22.40	22.14	22.38
			36	0	21.50	21.22	21.17	21.00
			36	18	21.50	21.25	21.15	21.05
			36	37	21.50	21.29	21.10	21.08
			75	0	21.50	21.28	21.15	21.04
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	23.50	22.97	22.92	22.74
			1	49	23.50	23.38	23.30	23.21
			1	99	23.50	22.98	22.88	22.89
			50	0	22.50	22.14	22.12	21.88
			50	24	22.50	22.25	22.12	22.02
			50	49	22.50	22.24	22.01	22.01
			100	0	22.50	22.23	22.08	21.95
		16QAM	1	0	23.00	22.43	22.09	21.97
			1	49	23.00	22.86	22.46	22.40
			1	99	23.00	22.49	22.02	22.07
			50	0	21.50	21.13	21.13	20.88
			50	24	21.50	21.25	21.11	20.99
			50	49	21.50	21.22	21.01	20.97
			100	0	21.50	21.19	21.05	20.94

8.4. Wi-Fi & BT Output Power

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11b	1	2412	14.00	13.43
	6	2437	14.00	13.58
	11	2462	14.00	13.32
802.11g	1	2412	14.50	13.97
	6	2437	14.50	14.03
	11	2462	14.50	13.67
802.11n (HT20)	1	2412	14.00	13.68
	6	2437	14.00	13.94
	11	2462	14.00	13.66
802.11n (H40)	3	2422	14.50	14.08
	6	2437	14.50	14.34
	9	2452	14.50	14.00

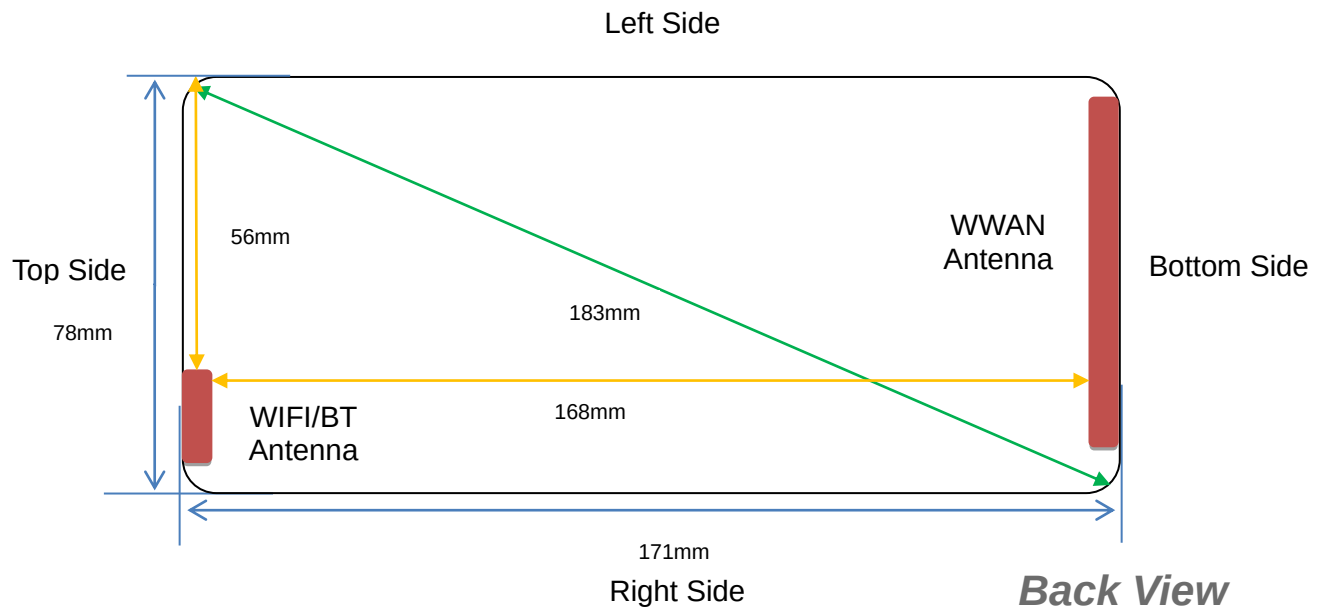
Mode	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11A	5180	8.50	8.32
	5200	8.50	8.49
	5240	8.50	8.17
802.11N20SISO	5180	8.50	8.18
	5200	8.50	8.23
	5240	8.50	7.94
802.11N40SISO	5190	8.50	8.11
	5230	8.50	7.97
802.11AC20SISO	5180	8.50	8.27
	5200	8.50	7.62
	5240	8.50	7.21
802.11AC40SISO	5190	8.00	7.97
	5230	8.00	7.51
802.11AC80SISO	5210	7.50	7.44

Mode	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11A	5745	8.00	7.88
	5785	8.00	7.95
	5825	8.00	7.81
802.11N20SISO	5745	8.00	7.87
	5785	8.00	7.91
	5825	8.00	7.76
802.11N40SISO	5755	8.00	7.83
	5795	8.00	7.90
802.11AC20SISO	5745	7.50	7.22
	5785	7.50	7.20
	5825	7.50	7.13
802.11AC40SISO	5755	8.00	7.28
	5795	8.00	7.66
802.11AC80SISO	5775	8.00	7.64

BR+EDR	Output Power (dBm)				
	Channel	Tune-up (dBm)	Data Rates		
			1M	2M	3M
	0CH	4.00	3.40	2.55	2.66
	39CH	5.00	4.53	3.66	3.83
	78CH	5.00	4.15	3.30	3.39

Mode	Channel	Tune-up (dBm)	Output Power (dBm)
BLE1M	CH00	1.00	0.67
	CH19	1.00	0.66
	CH39	1.00	0.67
BLE2M	CH00	1.00	0.67
	CH19	1.00	0.66
	CH39	1.00	0.67

9. Antenna Location



Antenna information:

Distance of The Antenna to the EUT surface and edge (mm)						
Antennas	Front Side	Back Side	Left Side	Right Side	Top Side	Bottom Side
BT/WLAN	≤25mm	≤25mm	>25mm	≤25mm	≤25mm	>25mm
WWAN	≤25mm	≤25mm	≤25mm	≤25mm	>25mm	≤25mm

Positions for SAR tests						
Antennas	Front Side	Back Side	Left Side	Right Side	Top Side	Bottom Side
BT/WLAN	Yes	Yes	NO	Yes	Yes	NO
WWAN	Yes	Yes	Yes	Yes	NO	Yes

10. 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	Pmax (dBm)	Pmax (mW)	Distance (mm)	f (GHz)	Calculation Result	SAR Exclusion threshold	SAR test exclusion
Bluetooth	5.00	3.16	5	2.480	1.00	3	Yes

NOTE: Standalone SAR test exclusion for Bluetooth.

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

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})/x}] \leq 7.5$ W/kg for test separation distances ≤ 50 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 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Mode	Position	Pmax (dBm)	Pmax (mW)	Distance (mm)	f (GHz)	x	Estimated SAR (W/kg)
Bluetooth	Head	5.00	3.16	5	2.480	7.5	0.133
Bluetooth	Body	5.00	3.16	5	2.480	7.5	0.133
Bluetooth	Hotspot	5.00	3.16	5	2.480	7.5	0.133

NOTE: Estimated SAR calculation for Bluetooth

11. SAR Measurement Results

< GSM 850>

Test Position	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						
Left Cheek	189/836.4	GPRS(GMSK 2TS)	0.221	0.183	3.03	32.87	33.00	0.228	2025/7/3	1#
Left Tilt 15 Degree	189/836.4	GPRS(GMSK 2TS)	0.116	0.093	1.94	32.87	33.00	0.120	2025/7/3	
Right Cheek	189/836.4	GPRS(GMSK 2TS)	0.202	0.162	1.20	32.87	33.00	0.208	2025/7/3	
Right Tilt 15 Degree	189/836.4	GPRS(GMSK 2TS)	0.107	0.087	-1.62	32.87	33.00	0.110	2025/7/3	

Test Position of Hotspot with 5mm	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	189/836.4	GPRS(GMSK 2TS)	0.102	0.080	-1.28	32.87	33.00	0.105	2025/7/3	
Back Side	189/836.4	GPRS(GMSK 2TS)	0.161	0.132	2.17	32.87	33.00	0.166	2025/7/3	2#
Left Side	189/836.4	GPRS(GMSK 2TS)	0.060	0.048	-0.46	32.87	33.00	0.062	2025/7/3	
Right Side	189/836.4	GPRS(GMSK 2TS)	0.051	0.041	-2.73	32.87	33.00	0.053	2025/7/3	
Bottom Side	189/836.4	GPRS(GMSK 2TS)	0.095	0.077	4.00	32.87	33.00	0.098	2025/7/3	

< GSM 1900>

Test Position	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						
Left Cheek	661/1880	GPRS(GMSK 4TS)	0.368	0.263	3.49	27.59	28.00	0.404	2025/7/7	3#
Left Tilt 15	661/1880	GPRS(GMSK 4TS)	0.211	0.145	2.27	27.59	28.00	0.232	2025/7/7	

Degree										
Right Cheek	661/1880	GPRS(GMSK 4TS)	0.344	0.238	2.86	27.59	28.00	0.378	2025/7/7	
Right Tilt 15 Degree	661/1880	GPRS(GMSK 4TS)	0.186	0.126	2.08	27.59	28.00	0.204	2025/7/7	

Test Position of Hotspot with 5mm	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 4TS)	0.300	0.181	1.23	27.59	28.00	0.330	2025/7/7	
Back Side	661/1880	GPRS(GMSK 4TS)	0.466	0.281	-0.25	27.59	28.00	0.512	2025/7/7	4#
Left Side	661/1880	GPRS(GMSK 4TS)	0.150	0.090	2.22	27.59	28.00	0.165	2025/7/7	
Right Side	661/1880	GPRS(GMSK 4TS)	0.147	0.086	2.52	27.59	28.00	0.162	2025/7/7	
Bottom Side	661/1880	GPRS(GMSK 4TS)	0.250	0.148	0.01	27.59	28.00	0.275	2025/7/7	

< WCDMA Band 2>

Test Position	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						
Left Cheek	9400/1880	RMC12.2K	0.494	0.356	-1.60	24.51	25.00	0.553	2025/7/7	5#
Left Tilt 15 Degree	9400/1880	RMC12.2K	0.249	0.172	-0.52	24.51	25.00	0.279	2025/7/7	
Right Cheek	9400/1880	RMC12.2K	0.457	0.329	-3.92	24.51	25.00	0.512	2025/7/7	
Right Tilt 15 Degree	9400/1880	RMC12.2K	0.220	0.154	-1.08	24.51	25.00	0.246	2025/7/7	

Test Position of Hotspot with 5mm	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	0.300	0.187	0.68	24.51	25.00	0.336	2025/7/7	
Back Side	9400/1880	RMC12.2K	0.459	0.289	-3.02	24.51	25.00	0.514	2025/7/7	6#
Left Side	9400/1880	RMC12.2K	0.138	0.085	-3.30	24.51	25.00	0.154	2025/7/7	
Right Side	9400/1880	RMC12.2K	0.141	0.088	-1.37	24.51	25.00	0.158	2025/7/7	
Bottom Side	9400/1880	RMC12.2K	0.235	0.145	-1.13	24.51	25.00	0.263	2025/7/7	

< WCDMA Band 4>

Test Position	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						
Left Cheek	1413/1732.6	RMC12.2K	0.550	0.414	0.09	23.84	24.50	0.640	2025/7/4	7#
Left Tilt 15 Degree	1413/1732.6	RMC12.2K	0.321	0.242	-0.58	23.84	24.50	0.374	2025/7/4	
Right Cheek	1413/1732.6	RMC12.2K	0.516	0.369	3.22	23.84	24.50	0.601	2025/7/4	
Right Tilt 15 Degree	1413/1732.6	RMC12.2K	0.259	0.185	-2.82	23.84	24.50	0.302	2025/7/4	

Test Position of Hotspot with 5mm	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	0.360	0.222	3.69	23.84	24.50	0.419	2025/7/4	
Back Side	1413/1732.6	RMC12.2K	0.575	0.369	-0.13	23.84	24.50	0.669	2025/7/4	8#
Left Side	1413/1732.6	RMC12.2K	0.174	0.109	-3.34	23.84	24.50	0.203	2025/7/4	
Right Side	1413/1732.6	RMC12.2K	0.180	0.116	-0.27	23.84	24.50	0.210	2025/7/4	
Bottom Side	1413/1732.6	RMC12.2K	0.310	0.193	2.03	23.84	24.50	0.361	2025/7/4	

< WCDMA Band 5>

Test Position	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						
Left Cheek	4182/836.4	RMC12.2K	0.189	0.158	0.96	24.52	25.00	0.211	2025/7/3	9#
Left Tilt 15 Degree	4182/836.4	RMC12.2K	0.110	0.092	-1.74	24.52	25.00	0.123	2025/7/3	
Right Cheek	4182/836.4	RMC12.2K	0.174	0.145	1.76	24.52	25.00	0.194	2025/7/3	
Right Tilt	4182/836.4	RMC12.2K	0.086	0.070	-1.51	24.52	25.00	0.096	2025/7/3	

15 Degree										
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Test Position of Hotspot with 5mm	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	0.288	0.163	2.42	24.52	25.00	0.322	2025/7/3	
Back Side	4182/836.4	RMC12.2K	0.446	0.261	2.05	24.52	25.00	0.498	2025/7/3	10#
Left Side	4182/836.4	RMC12.2K	0.138	0.077	2.40	24.52	25.00	0.154	2025/7/3	
Right Side	4182/836.4	RMC12.2K	0.135	0.075	2.18	24.52	25.00	0.151	2025/7/3	
Bottom Side	4182/836.4	RMC12.2K	0.245	0.142	-1.78	24.52	25.00	0.274	2025/7/3	

< LTE Band 2 >

Test Position	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										
Left Cheek	18900/1880	20M QPSK(1,49)	0.587	0.402	-2.19	24.30	24.50	0.615	2025/7/7	17#
Left Tilt 15 Degree	18900/1880	20M QPSK(1,49)	0.325	0.216	1.21	24.30	24.50	0.340	2025/7/7	
Right Cheek	18900/1880	20M QPSK(1,49)	0.544	0.365	1.26	24.30	24.50	0.570	2025/7/7	
Right Tilt 15 Degree	18900/1880	20M QPSK(1,49)	0.262	0.176	-3.76	24.30	24.50	0.274	2025/7/7	
50%RB										
Left Cheek	18900/1880	20M QPSK(50,49)	0.339	0.226	-1.47	23.16	23.50	0.367	2025/7/7	
Left Tilt 15 Degree	18900/1880	20M QPSK(50,49)	0.188	0.126	3.76	23.16	23.50	0.203	2025/7/7	
Right Cheek	18900/1880	20M QPSK(50,49)	0.317	0.195	-1.64	23.16	23.50	0.343	2025/7/7	
Right Tilt 15 Degree	18900/1880	20M QPSK(50,49)	0.152	0.098	-4.80	23.16	23.50	0.164	2025/7/7	

Test Position of Hotspot with 5mm	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)	0.318	0.207	-1.07	24.30	24.50	0.333	2025/7/7	
Back Side	18900/1880	20M QPSK(1,49)	0.506	0.336	-1.17	24.30	24.50	0.530	2025/7/7	18#
Left Side	18900/1880	20M QPSK(1,49)	0.156	0.100	1.37	24.30	24.50	0.163	2025/7/7	
Right Side	18900/1880	20M QPSK(1,49)	0.156	0.100	2.14	24.30	24.50	0.163	2025/7/7	
Bottom Side	18900/1880	20M QPSK(1,49)	0.255	0.163	0.16	24.30	24.50	0.267	2025/7/7	
50%RB										
Front Side	18900/1880	20M QPSK(50,49)	0.179	0.104	-3.29	23.16	23.50	0.194	2025/7/7	
Back Side	18900/1880	20M QPSK(50,49)	0.293	0.173	-0.53	23.16	23.50	0.317	2025/7/7	
Left Side	18900/1880	20M QPSK(50,49)	0.092	0.055	4.58	23.16	23.50	0.099	2025/7/7	
Right Side	18900/1880	20M QPSK(50,49)	0.083	0.056	2.10	23.16	23.50	0.090	2025/7/7	
Bottom Side	18900/1880	20M QPSK(50,49)	0.152	0.086	3.83	23.16	23.50	0.164	2025/7/7	

< LTE Band 4>

Test Position	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										
Left Cheek	20175/1732.5	20M QPSK(1,49)	0.372	0.263	-0.53	23.62	24.00	0.406	2025/7/4	19#
Left Tilt 15 Degree	20175/1732.5	20M QPSK(1,49)	0.214	0.145	1.81	23.62	24.00	0.234	2025/7/4	

Right Cheek	20175/1732.5	20M QPSK(1,49)	0.333	0.235	1.23	23.62	24.00	0.363	2025/7/4	
Right Tilt 15 Degree	20175/1732.5	20M QPSK(1,49)	0.178	0.125	2.52	23.62	24.00	0.194	2025/7/4	
50%RB										
Left Cheek	20175/1732.5	20M QPSK(50,24)	0.196	0.138	-2.59	22.47	23.00	0.221	2025/7/4	
Left Tilt 15 Degree	20175/1732.5	20M QPSK(50,24)	0.116	0.078	-4.52	22.47	23.00	0.131	2025/7/4	
Right Cheek	20175/1732.5	20M QPSK(50,24)	0.179	0.121	-3.52	22.47	23.00	0.202	2025/7/4	
Right Tilt 15 Degree	20175/1732.5	20M QPSK(50,24)	0.095	0.066	0.01	22.47	23.00	0.107	2025/7/4	

Test Position of Hotspot with 5mm	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)	0.258	0.163	-1.22	23.62	24.00	0.282	2025/7/4	
Back Side	20175/1732.5	20M QPSK(1,49)	0.427	0.275	-1.31	23.62	24.00	0.466	2025/7/4	20#
Left Side	20175/1732.5	20M QPSK(1,49)	0.129	0.079	-2.60	23.62	24.00	0.141	2025/7/4	
Right Side	20175/1732.5	20M QPSK(1,49)	0.132	0.081	-1.26	23.62	24.00	0.144	2025/7/4	
Bottom Side	20175/1732.5	20M QPSK(1,49)	0.220	0.137	-1.34	23.62	24.00	0.240	2025/7/4	
50%RB										
Front Side	20175/1732.5	20M QPSK(50,24)	0.137	0.091	2.77	22.47	23.00	0.155	2025/7/4	
Back Side	20175/1732.5	20M QPSK(50,24)	0.254	0.139	3.96	22.47	23.00	0.287	2025/7/4	
Left Side	20175/1732.5	20M QPSK(50,24)	0.071	0.044	4.17	22.47	23.00	0.080	2025/7/4	

Right Side	20175/1732.5	20M QPSK(50,24)	0.073	0.047	-1.57	22.47	23.00	0.082	2025/7/4	
Bottom Side	20175/1732.5	20M QPSK(50,24)	0.111	0.079	-2.55	22.47	23.00	0.125	2025/7/4	

< LTE Band 5>

Test Position	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										
Left Cheek	20525/836.5	10M QPSK(1,24)	0.169	0.140	1.85	24.59	25.00	0.186	2025/7/3	21#
Left Tilt 15 Degree	20525/836.5	10M QPSK(1,24)	0.092	0.074	-1.82	24.59	25.00	0.101	2025/7/3	
Right Cheek	20525/836.5	10M QPSK(1,24)	0.160	0.127	3.68	24.59	25.00	0.176	2025/7/3	
Right Tilt 15 Degree	20525/836.5	10M QPSK(1,24)	0.078	0.065	1.67	24.59	25.00	0.086	2025/7/3	
50%RB										
Left Cheek	20525/836.5	10M QPSK(25,24)	0.094	0.076	1.50	23.39	24.00	0.108	2025/7/3	
Left Tilt 15 Degree	20525/836.5	10M QPSK(25,24)	0.050	0.041	-4.26	23.39	24.00	0.058	2025/7/3	
Right Cheek	20525/836.5	10M QPSK(25,24)	0.086	0.072	3.72	23.39	24.00	0.099	2025/7/3	
Right Tilt 15 Degree	20525/836.5	10M QPSK(25,24)	0.045	0.035	-4.07	23.39	24.00	0.052	2025/7/3	

Test Position of Hotspot with 5mm	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	20525/836.5	10M	0.306	0.177	3.25	24.59	25.00	0.336	2025/7/3	

Side		QPSK(1,24)								
Back Side	20525/836.5	10M QPSK(1,24)	0.501	0.296	0.29	24.59	25.00	0.551	2025/7/3	22#
Left Side	20525/836.5	10M QPSK(1,24)	0.165	0.093	-0.20	24.59	25.00	0.181	2025/7/3	
Right Side	20525/836.5	10M QPSK(1,24)	0.159	0.090	3.44	24.59	25.00	0.175	2025/7/3	
Bottom Side	20525/836.5	10M QPSK(1,24)	0.275	0.158	0.63	24.59	25.00	0.302	2025/7/3	
50%RB										
Front Side	20525/836.5	10M QPSK(25,24)	0.156	0.096	-3.12	23.39	24.00	0.180	2025/7/3	
Back Side	20525/836.5	10M QPSK(25,24)	0.269	0.166	-2.56	23.39	24.00	0.310	2025/7/3	
Left Side	20525/836.5	10M QPSK(25,24)	0.091	0.056	4.55	23.39	24.00	0.105	2025/7/3	
Right Side	20525/836.5	10M QPSK(25,24)	0.083	0.053	-3.18	23.39	24.00	0.096	2025/7/3	
Bottom Side	20525/836.5	10M QPSK(25,24)	0.159	0.081	4.87	23.39	24.00	0.183	2025/7/3	

< LTE Band 7 >

Test Position	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										
Left Cheek	21100/2535	20M QPSK(1,49)	0.387	0.209	0.73	23.30	23.50	0.405	2025/7/9	23#
Left Tilt 15 Degree	21100/2535	20M QPSK(1,49)	0.215	0.114	0.66	23.30	23.50	0.225	2025/7/9	
Right Cheek	21100/2535	20M QPSK(1,49)	0.347	0.182	3.30	23.30	23.50	0.363	2025/7/9	
Right Tilt 15 Degree	21100/2535	20M QPSK(1,49)	0.176	0.094	2.76	23.30	23.50	0.184	2025/7/9	
50%RB										
Left Cheek	21100/2535	20M QPSK(50,24)	0.207	0.118	-4.50	22.12	22.50	0.226	2025/7/9	

Left Tilt 15 Degree	21100/2535	20M QPSK(50,24)	0.114	0.066	-4.97	22.12	22.50	0.124	2025/7/9	
Right Cheek	21100/2535	20M QPSK(50,24)	0.207	0.107	-1.00	22.12	22.50	0.226	2025/7/9	
Right Tilt 15 Degree	21100/2535	20M QPSK(50,24)	0.101	0.047	0.11	22.12	22.50	0.110	2025/7/9	

Test Position of Hotspot with 5mm	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	21100/2535	20M QPSK(1,49)	0.312	0.155	3.19	23.30	23.50	0.327	2025/7/9	
Back Side	21100/2535	20M QPSK(1,49)	0.511	0.267	3.09	23.30	23.50	0.535	2025/7/9	24#
Left Side	21100/2535	20M QPSK(1,49)	0.165	0.085	3.09	23.30	23.50	0.173	2025/7/9	
Right Side	21100/2535	20M QPSK(1,49)	0.165	0.084	1.58	23.30	23.50	0.173	2025/7/9	
Bottom Side	21100/2535	20M QPSK(1,49)	0.280	0.143	3.88	23.30	23.50	0.293	2025/7/9	
50%RB										
Front Side	21100/2535	20M QPSK(50,24)	0.166	0.089	1.94	22.12	22.50	0.181	2025/7/9	
Back Side	21100/2535	20M QPSK(50,24)	0.256	0.139	-4.15	22.12	22.50	0.279	2025/7/9	
Left Side	21100/2535	20M QPSK(50,24)	0.093	0.050	4.50	22.12	22.50	0.102	2025/7/9	
Right Side	21100/2535	20M QPSK(50,24)	0.089	0.045	-0.73	22.12	22.50	0.097	2025/7/9	
Bottom Side	21100/2535	20M QPSK(50,24)	0.157	0.082	-1.15	22.12	22.50	0.171	2025/7/9	

< WiFi 2.4G >

Test Position	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						
Left Cheek	6/2437	802.11b	0.309	0.204	0.85	13.58	14.00	0.340	2025/7/8	15#
Left Tilt 15 Degree	6/2437	802.11b	0.182	0.118	-1.79	13.58	14.00	0.200	2025/7/8	
Right Cheek	6/2437	802.11b	0.276	0.179	-3.41	13.58	14.00	0.304	2025/7/8	
Right Tilt 15 Degree	6/2437	802.11b	0.149	0.095	-3.79	13.58	14.00	0.164	2025/7/8	

Test Position of Hotspot with 5mm	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	6/2437	802.11b	0.252	0.154	2.71	13.58	14.00	0.278	2025/7/8	
Back Side	6/2437	802.11b	0.395	0.242	0.27	13.58	14.00	0.435	2025/7/8	16#
Back Side	6/2437	802.11n HT40	0.323	0.210	1.35	14.34	14.50	0.335	2025/7/8	
Right Side	6/2437	802.11b	0.129	0.078	3.44	13.58	14.00	0.142	2025/7/8	
Top Side	6/2437	802.11b	0.164	0.097	-3.72	13.58	14.00	0.181	2025/7/8	

< WiFi 5.2G >

Test Position	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						
Left Cheek	40/5200	802.11a	0.383	0.221	-0.12	8.49	8.50	0.384	2025/7/10	11#

Left Tilt 15 Degree	40/5200	802.11a	0.202	0.113	-2.65	8.49	8.50	0.202	2025/7/10	
Right Cheek	40/5200	802.11a	0.351	0.198	-3.85	8.49	8.50	0.352	2025/7/10	
Right Tilt 15 Degree	40/5200	802.11a	0.187	0.107	0.64	8.49	8.50	0.187	2025/7/10	

Test Position of Hotspot with 5mm	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	40/5200	802.11a	0.336	0.168	2.15	8.49	8.50	0.337	2025/7/10	
Back Side	40/5200	802.11a	0.510	0.255	2.50	8.49	8.50	0.511	2025/7/10	13#
Right Side	40/5200	802.11a	0.159	0.078	0.10	8.49	8.50	0.159	2025/7/10	
Top Side	40/5200	802.11a	0.208	0.099	0.58	8.49	8.50	0.208	2025/7/10	

< WiFi 5.8G >

Test Position	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						
Left Cheek	157/5785	802.11a	0.514	0.246	-0.50	7.95	8.00	0.520	2025/7/14	12#
Left Tilt 15 Degree	157/5785	802.11a	0.269	0.122	0.82	7.95	8.00	0.272	2025/7/14	
Right Cheek	157/5785	802.11a	0.486	0.233	-0.70	7.95	8.00	0.492	2025/7/14	
Right Tilt 15 Degree	157/5785	802.11a	0.235	0.112	2.28	7.95	8.00	0.238	2025/7/14	

Test Position of Hotspot with 5mm	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	157/5785	802.11a	0.348	0.154	-1.60	7.95	8.00	0.352	2025/7/14	
Back Side	157/5785	802.11a	0.565	0.264	3.83	7.95	8.00	0.572	2025/7/14	14#
Right Side	157/5785	802.11a	0.177	0.081	-1.50	7.95	8.00	0.179	2025/7/14	
Top Side	157/5785	802.11a	0.236	0.108	3.13	7.95	8.00	0.239	2025/7/14	

12. Simultaneous Transmission Analysis

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

1) Scalar SAR summation $< 1.6\text{W/kg}$.

2) $\text{SPLSR} = \frac{(\text{SAR}_1 + \text{SAR}_2)^{1.5}}{\text{(min. separation distance, mm)}}$, 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.

No.	Simultaneous Tx	Head	Body-worn	Hotspot
1	WWAN+WLAN	Yes	Yes	Yes
2	WWAN+Bluetooth	Yes	Yes	Yes

Note : WiFi and Bluetooth use the same antenna and cannot be transmitted at the same time.

Exposure Position		WWAN Band	NII/DTS/DSS	Simultaneous Tx SAR(W/Kg)
		SAR(W/Kg)	SAR(W/Kg)	
Head	Left Cheek	0.640	0.520	1.160
	Left Tilt 15 Degree	0.374	0.272	0.646
	Right Cheek	0.601	0.492	1.093
	Right Tilt 15 Degree	0.302	0.238	0.540
Body&Hotspot	Front Side	0.419	0.352	0.771
	Back Side	0.669	0.572	1.241
	Left Side	0.203	/	0.203
	Right Side	0.210	0.179	0.389
	Top Side	/	0.239	0.239
	Bottom Side	0.361	/	0.361

Note : The Simultaneous Tx is calculated based on the same configuration and test position.

Appendix A. Photo documentation

Refer to appendix Test Setup photo---SAR

Appendix B. System Check Plots

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MEASUREMENT 1

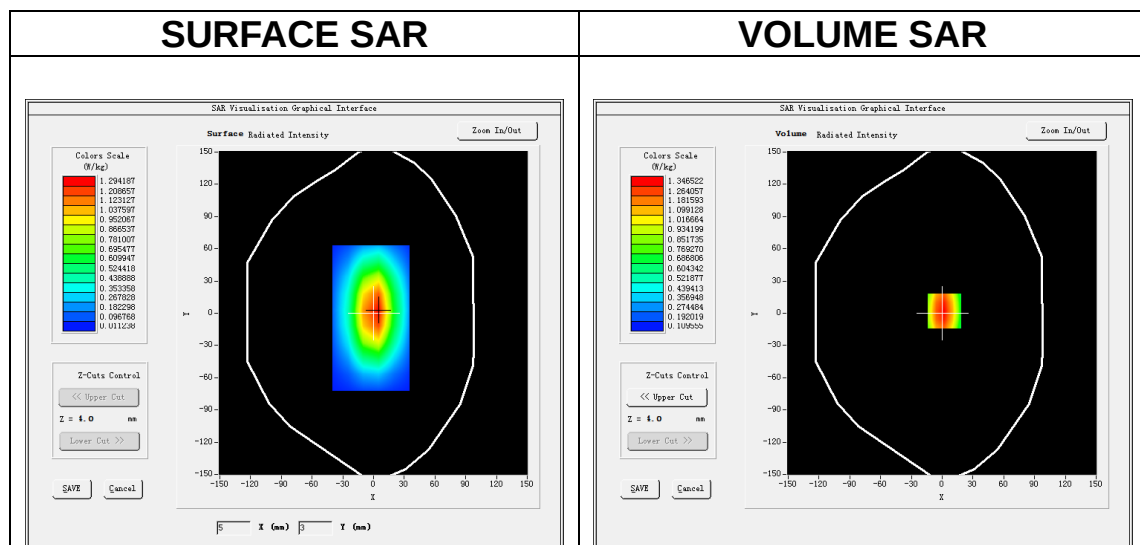
Date of measurement: 3/7/2025

A. Experimental conditions.

Area Scan	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Dipole</u>
Band	<u>CW835</u>
Channels	<u>Middle</u>
Signal	<u>CW (Crest factor: 1.0)</u>
ConvF	<u>1.66</u>

B. SAR Measurement Results

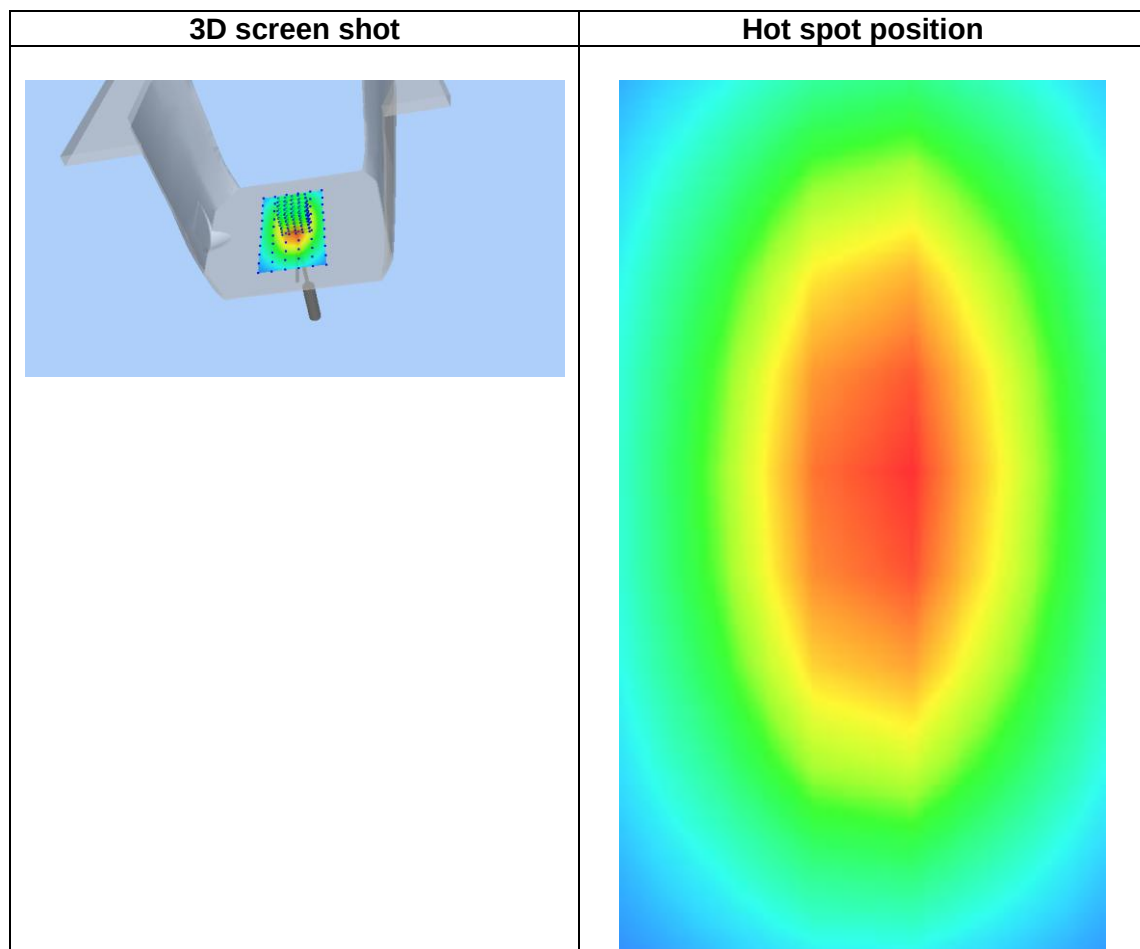
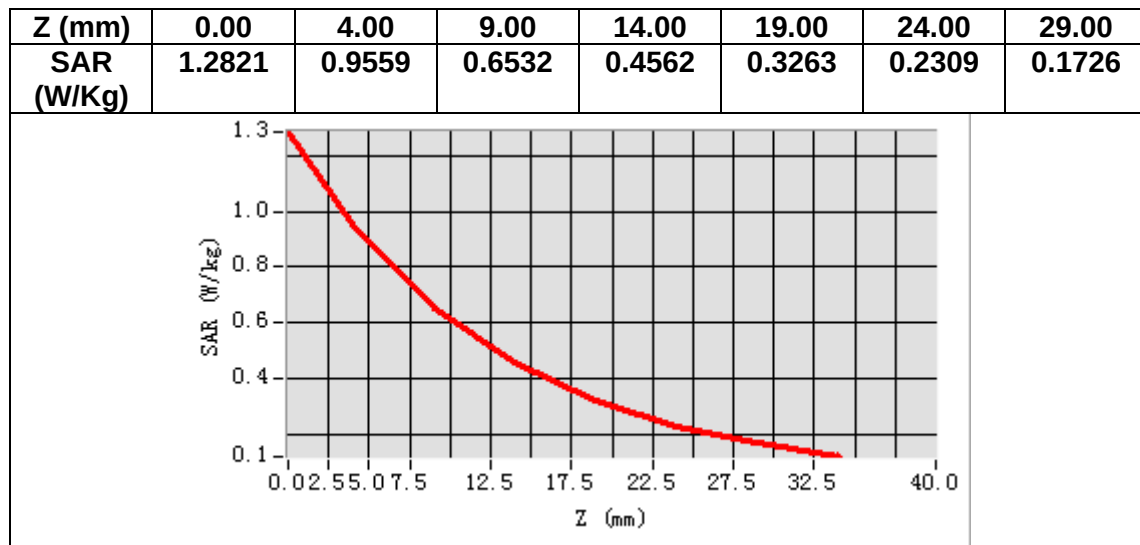
Frequency (MHz)	835.000000
Relative permittivity (real part)	42.012031
Relative permittivity (imaginary part)	19.131021
Conductivity (S/m)	0.941030
Variation (%)	0.310000



Maximum location: X=2.00, Y=2.00

SAR Peak: 1.87 W/kg

SAR 10g (W/Kg)	0.612031
SAR 1g (W/Kg)	1.011231



MEASUREMENT 2

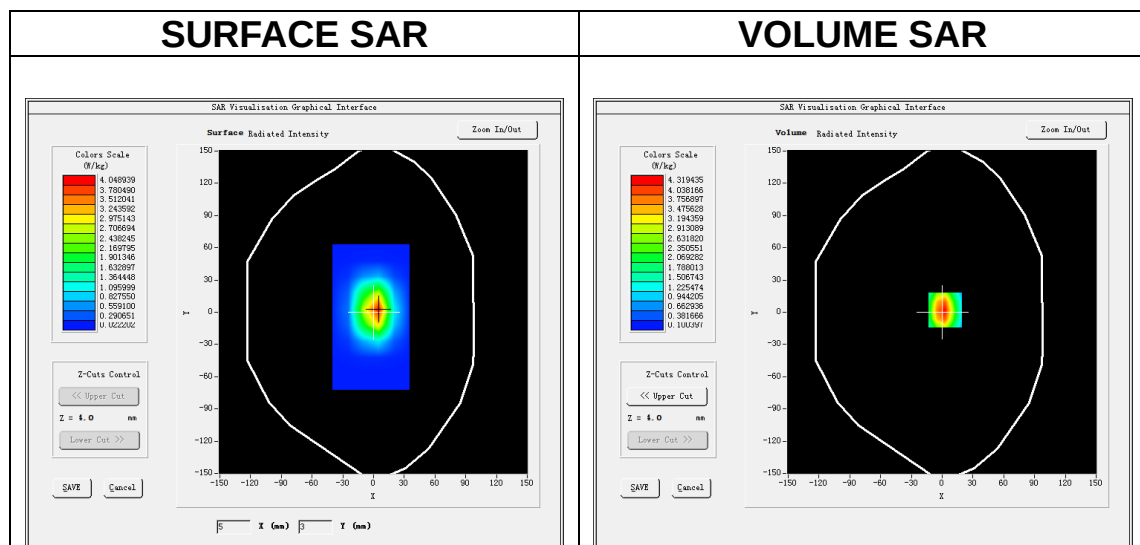
Date of measurement: 4/7/2025

A. Experimental conditions.

Area Scan	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Dipole</u>
Band	<u>CW1800</u>
Channels	<u>Middle</u>
Signal	<u>CW (Crest factor: 1.0)</u>
ConvF	<u>2.05</u>

B. SAR Measurement Results

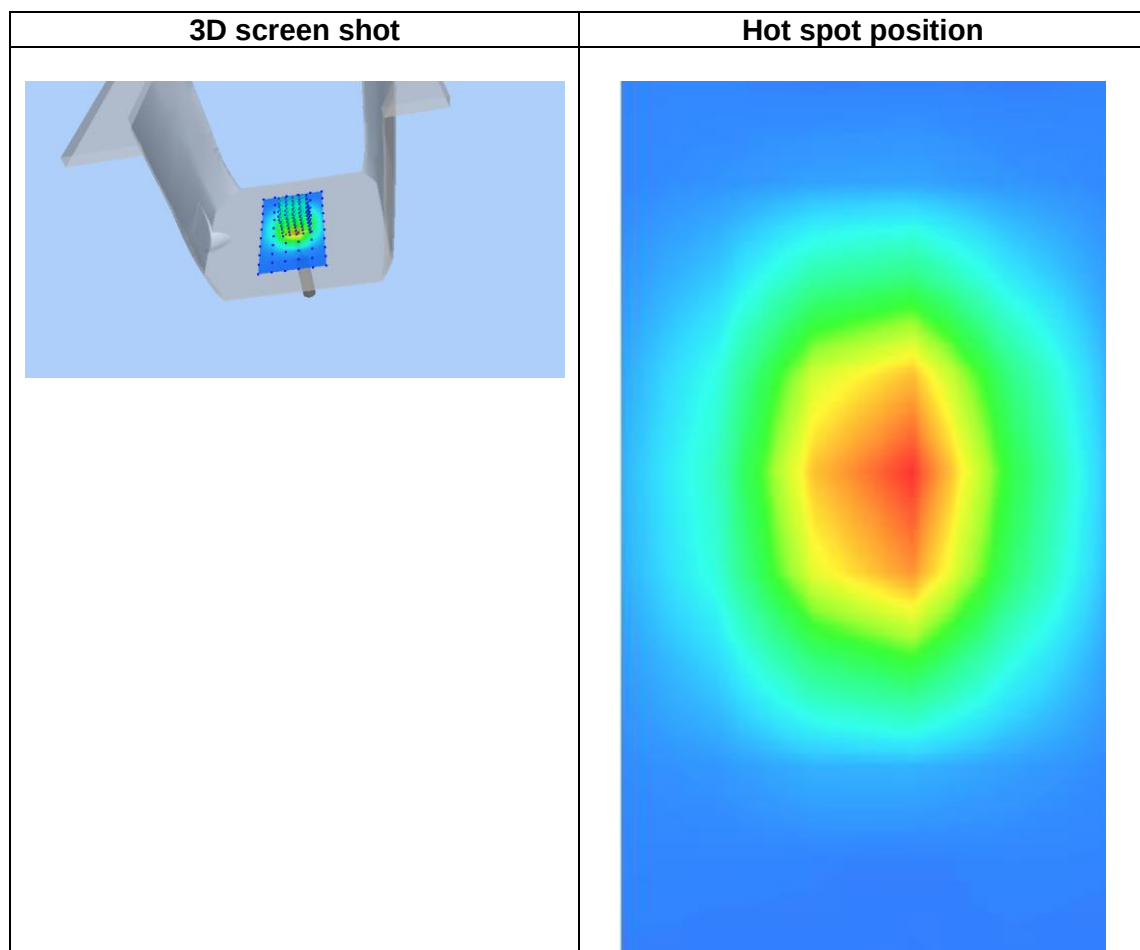
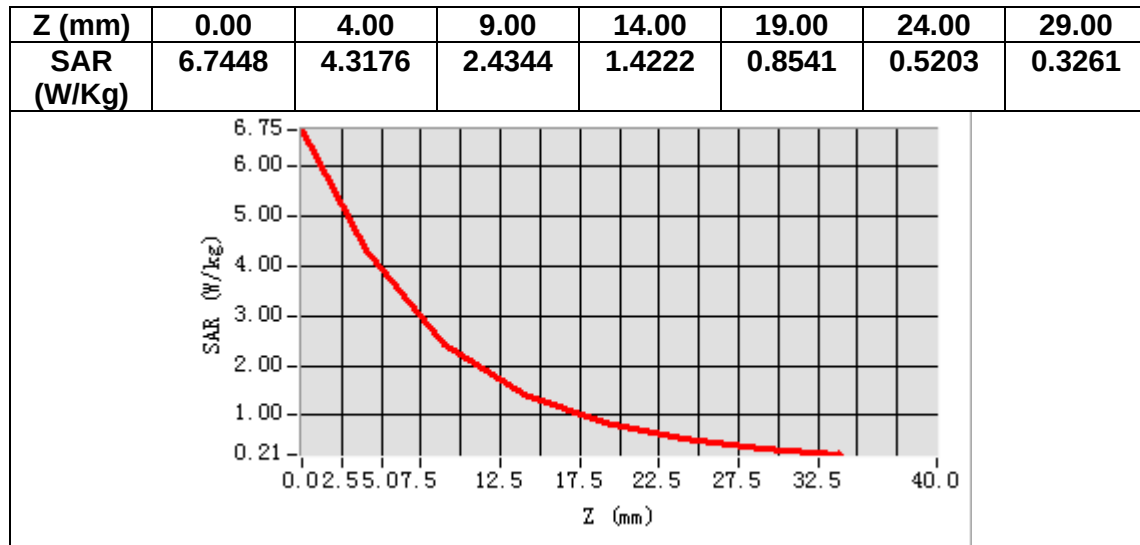
Frequency (MHz)	1800.000000
Relative permittivity (real part)	39.606403
Relative permittivity (imaginary part)	14.067180
Conductivity (S/m)	1.406718
Variation (%)	-0.140000



Maximum location: X=3.00, Y=2.00

SAR Peak: 6.82 W/kg

SAR 10g (W/Kg)	2.024557
SAR 1g (W/Kg)	3.832112



MEASUREMENT 3

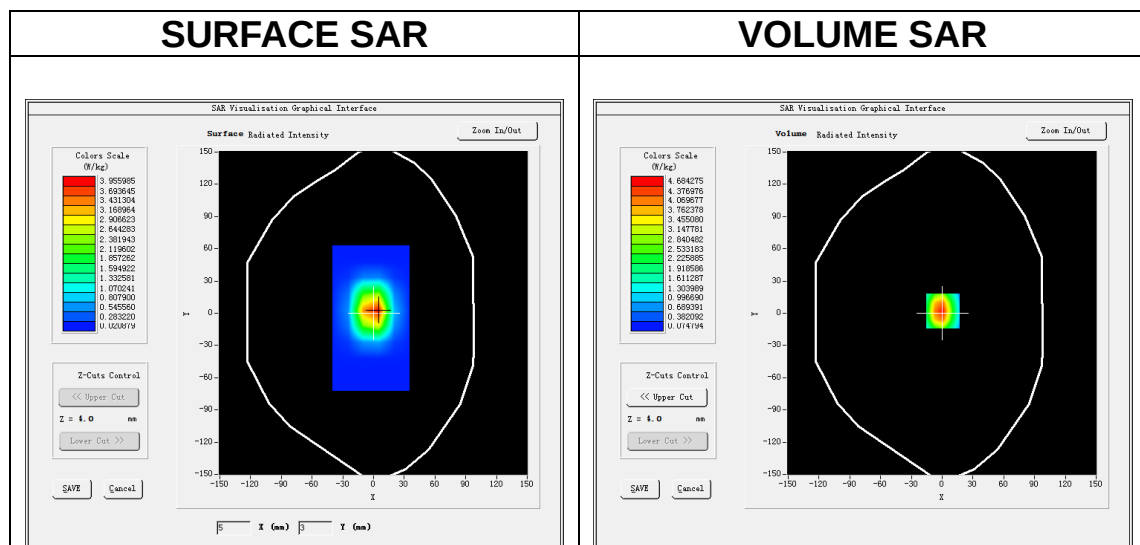
Date of measurement: 7/7/2025

A. Experimental conditions.

Area Scan	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Dipole</u>
Band	<u>CW1900</u>
Channels	<u>Middle</u>
Signal	<u>CW (Crest factor: 1.0)</u>
ConvF	<u>2.05</u>

B. SAR Measurement Results

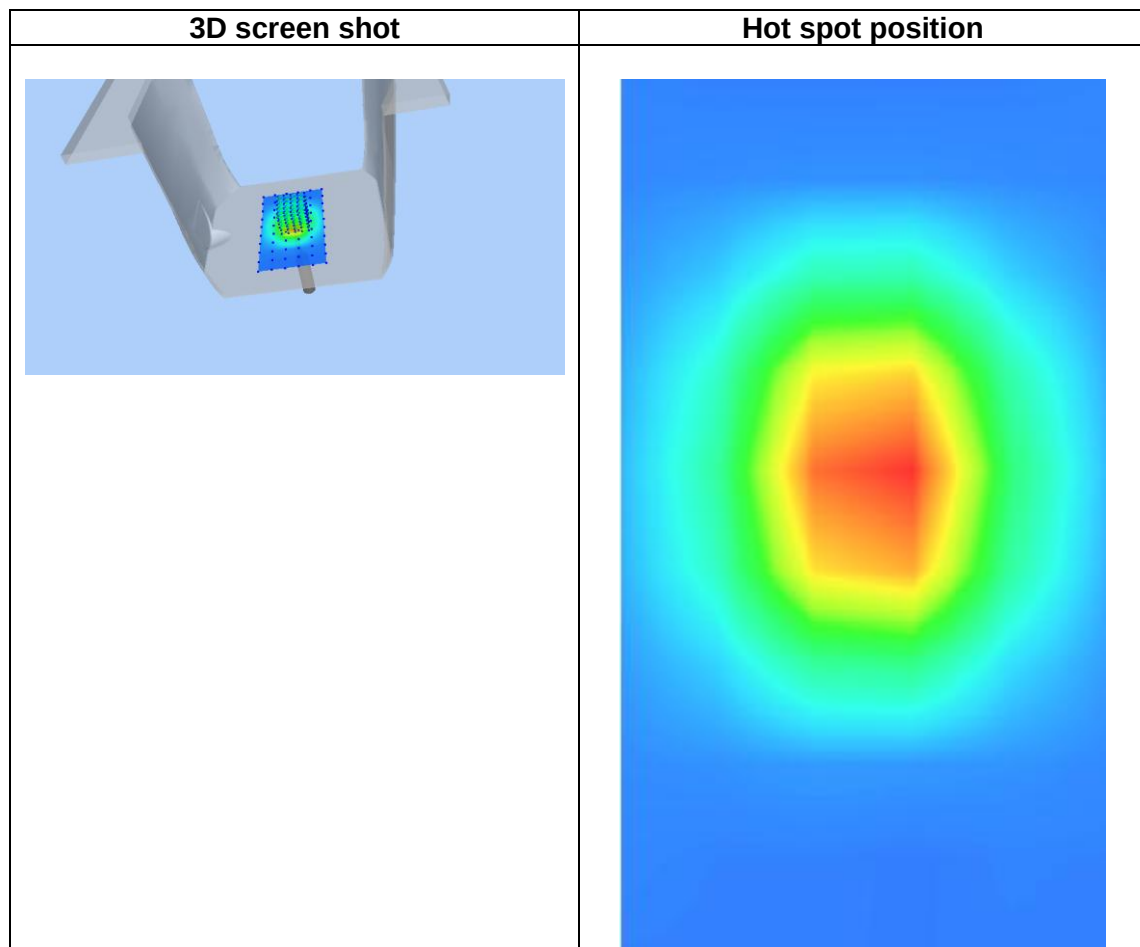
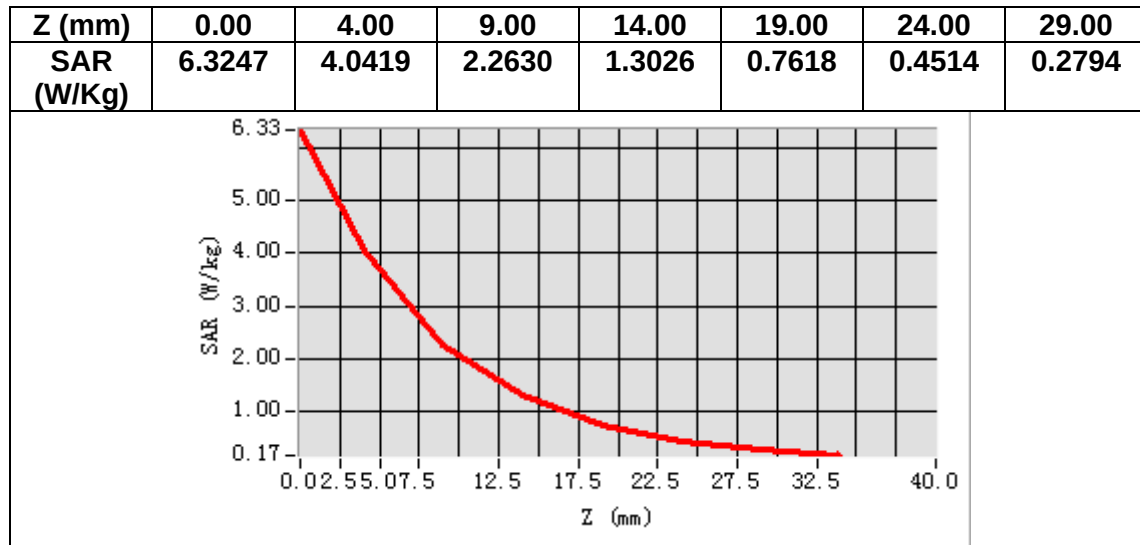
Frequency (MHz)	1900.000000
Relative permittivity (real part)	41.420140
Relative permittivity (imaginary part)	12.570123
Conductivity (S/m)	1.390503
Variation (%)	-0.440000



Maximum location: X=1.00, Y=2.00

SAR Peak: 7.65 W/kg

SAR 10g (W/Kg)	2.153165
SAR 1g (W/Kg)	4.153568



MEASUREMENT 4

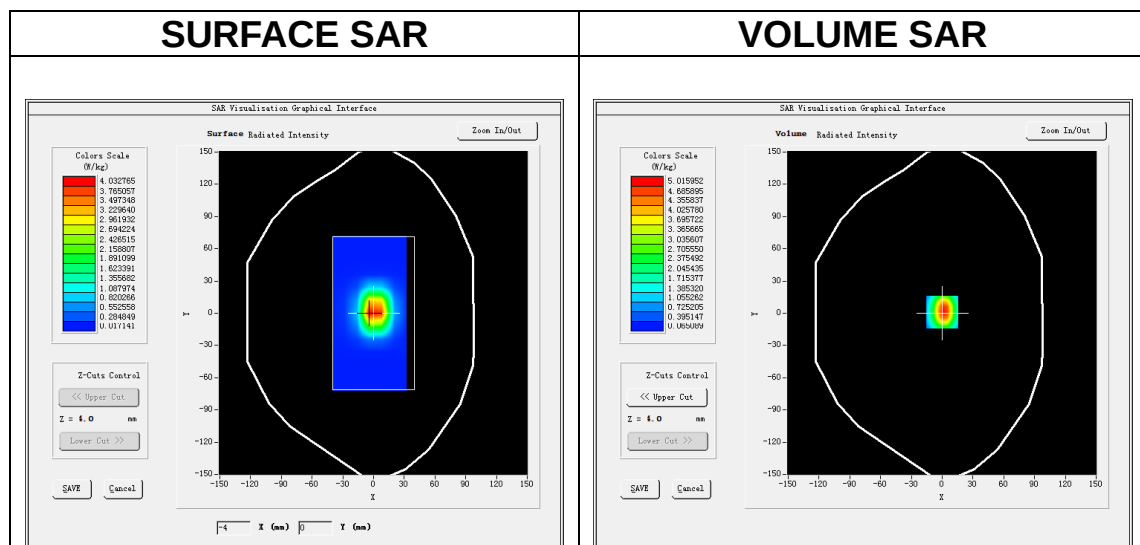
Date of measurement: 8/7/2025

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>Dipole</u>
Band	<u>CW2450</u>
Channels	<u>Middle</u>
Signal	<u>CW (Crest factor: 1.0)</u>
ConvF	<u>2.38</u>

B. SAR Measurement Results

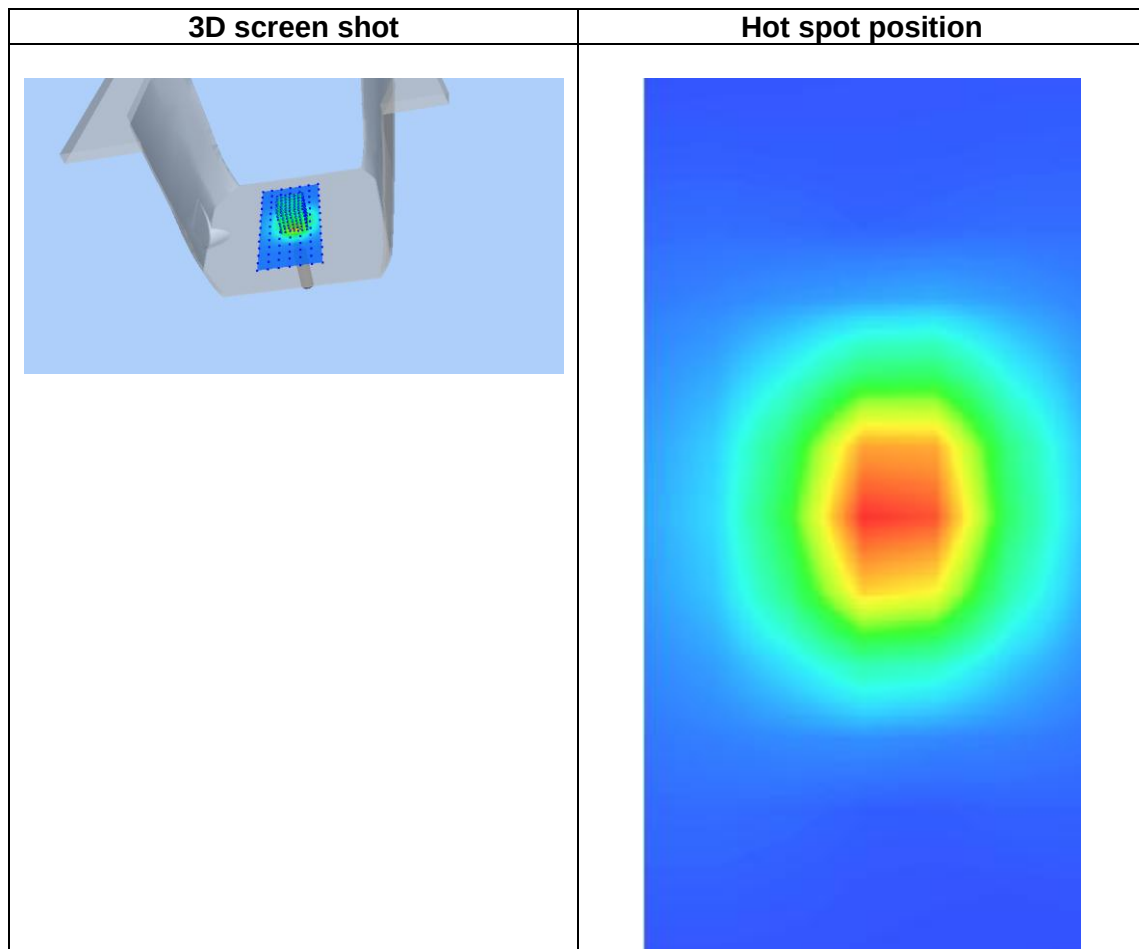
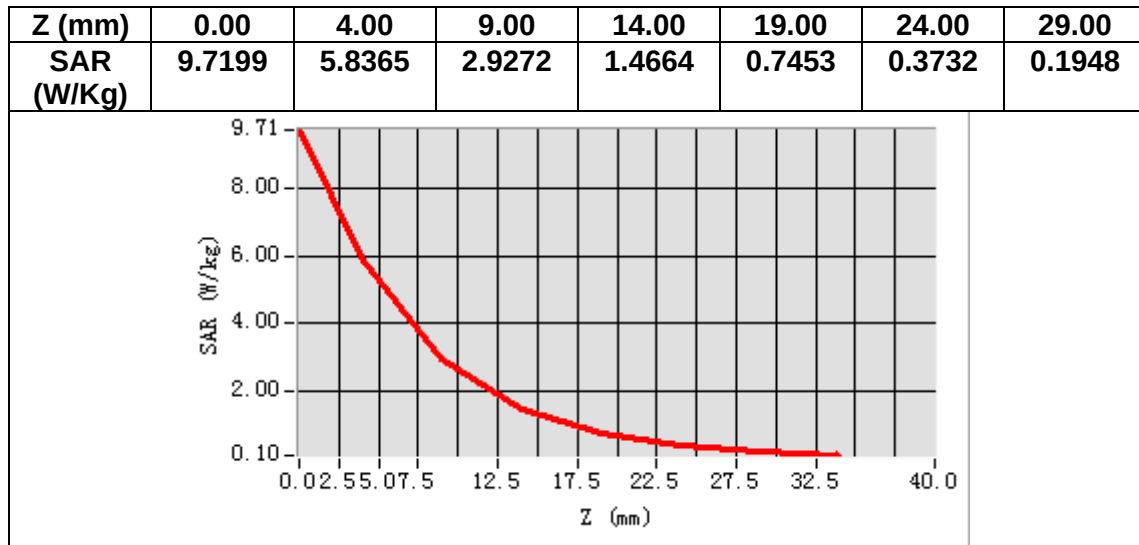
Frequency (MHz)	2450.000000
Relative permittivity (real part)	40.408511
Relative permittivity (imaginary part)	13.399264
Conductivity (S/m)	1.823789
Variation (%)	-1.250000



Maximum location: X=0.00, Y=1.00

SAR Peak: 8.14 W/kg

SAR 10g (W/Kg)	2.359425
SAR 1g (W/Kg)	5.183642



MEASUREMENT 5

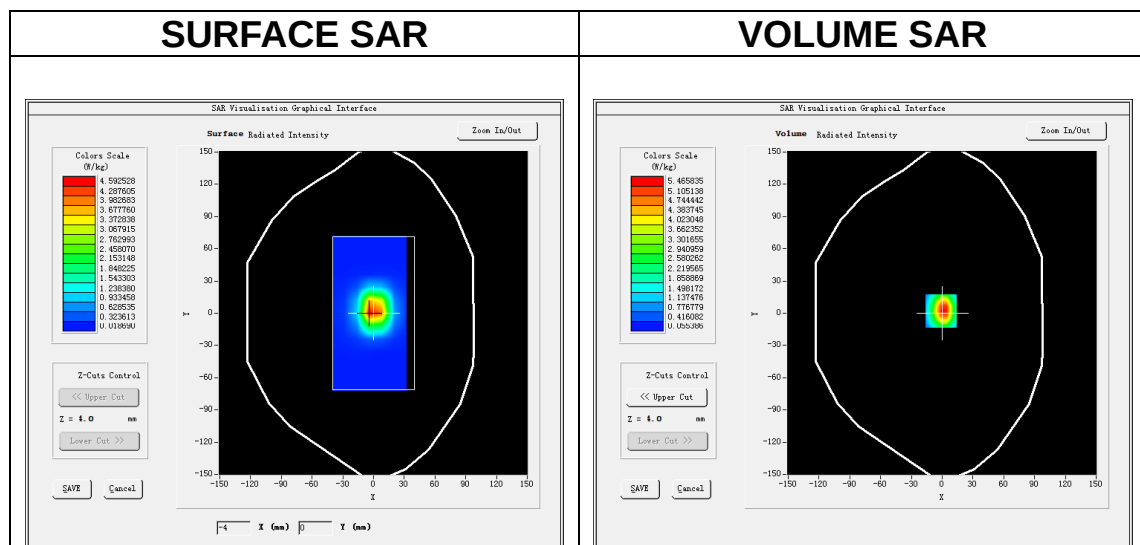
Date of measurement: 9/7/2025

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>Dipole</u>
Band	<u>CW2600</u>
Channels	<u>Middle</u>
Signal	<u>CW (Crest factor: 1.0)</u>
ConvF	<u>2.35</u>

B. SAR Measurement Results

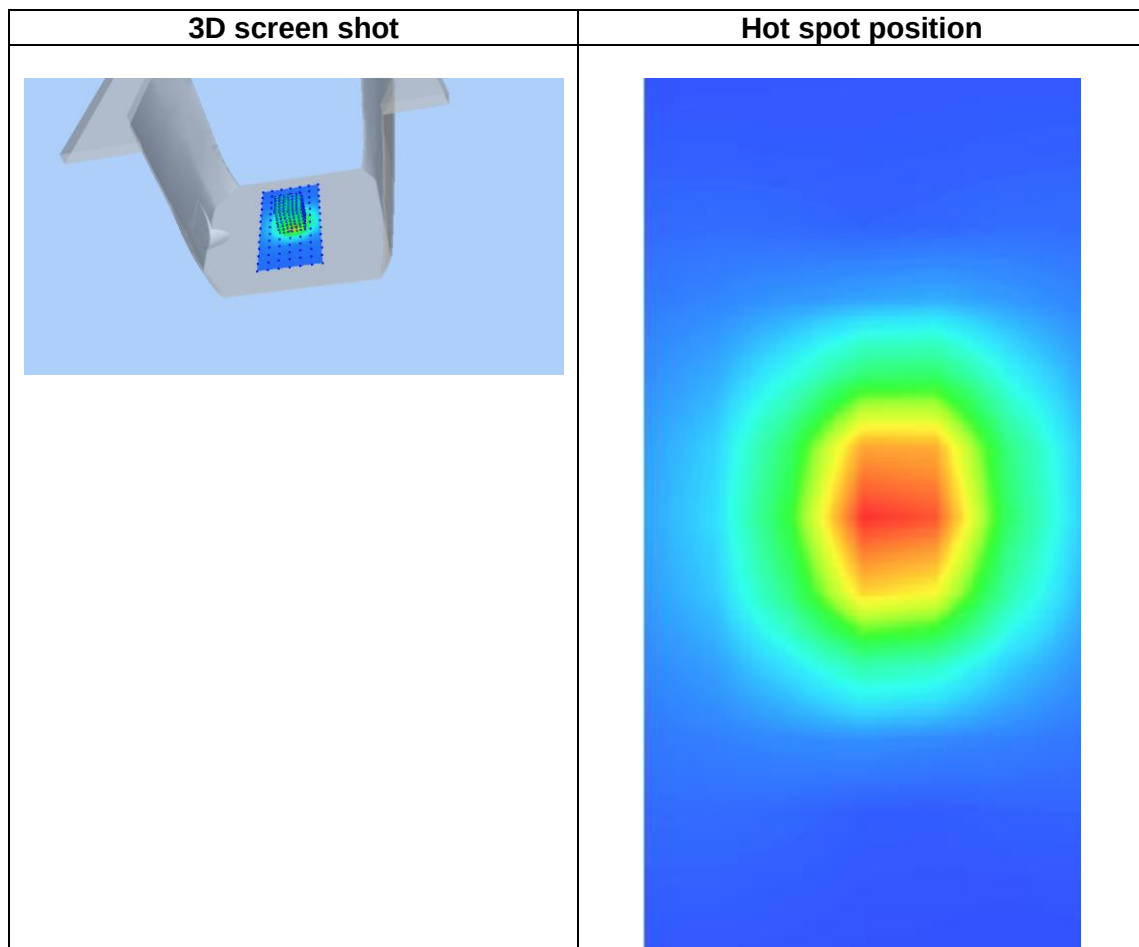
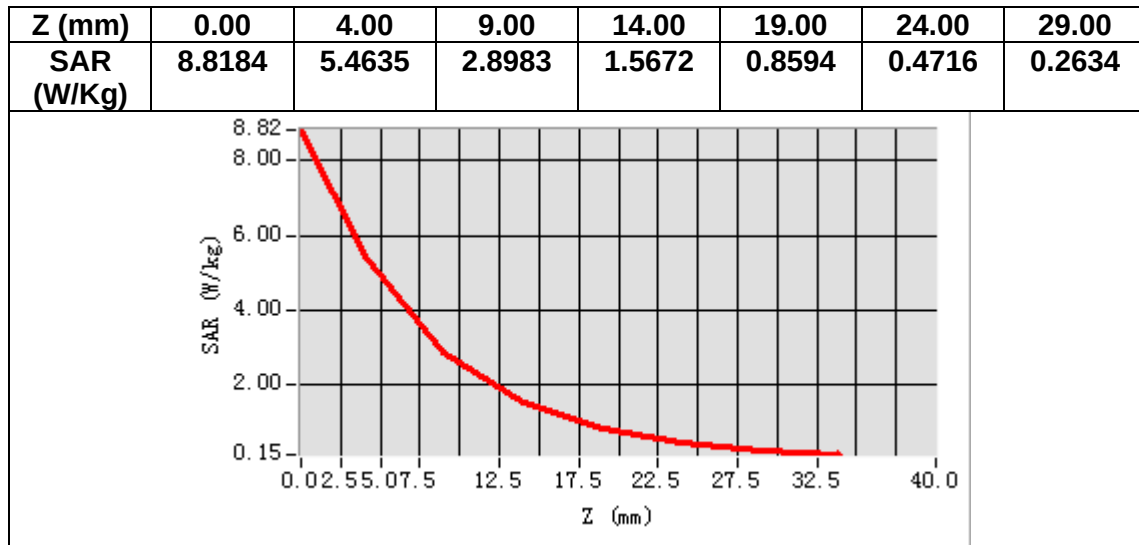
Frequency (MHz)	2600.000000
Relative permittivity (real part)	39.432362
Relative permittivity (imaginary part)	13.768602
Conductivity (S/m)	1.988798
Variation (%)	-3.980000



Maximum location: X=-1.00, Y=2.00

SAR Peak: 9.07 W/kg

SAR 10g (W/Kg)	2.523157
SAR 1g (W/Kg)	5.432595



MEASUREMENT 6

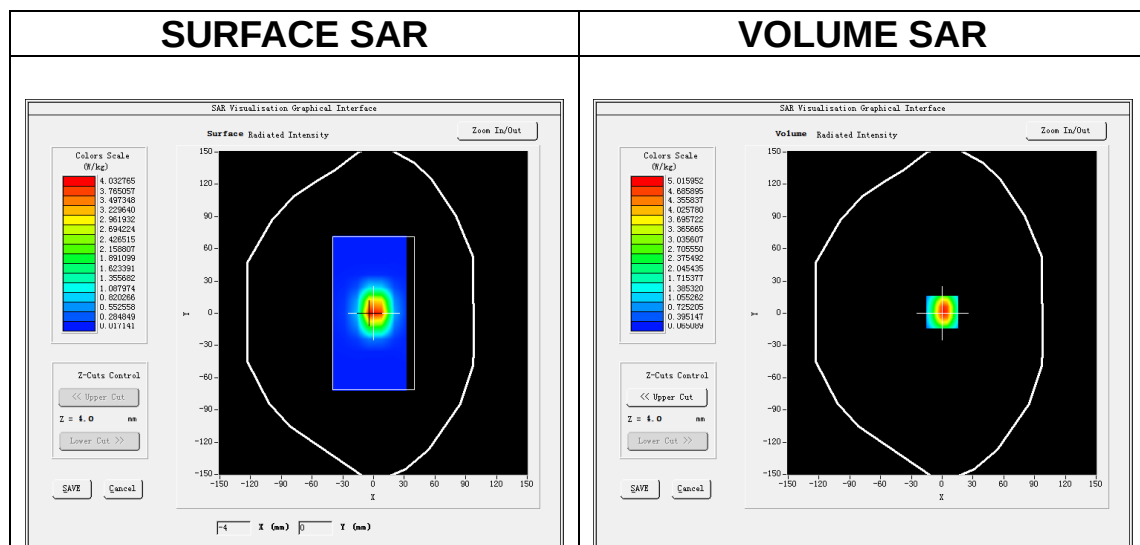
Date of measurement: 10/7/2025

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>CW5200</u>
Channels	<u>Middle</u>
Signal	<u>CW (Crest factor: 1.0)</u>
ConvF	<u>2.30</u>

B. SAR Measurement Results

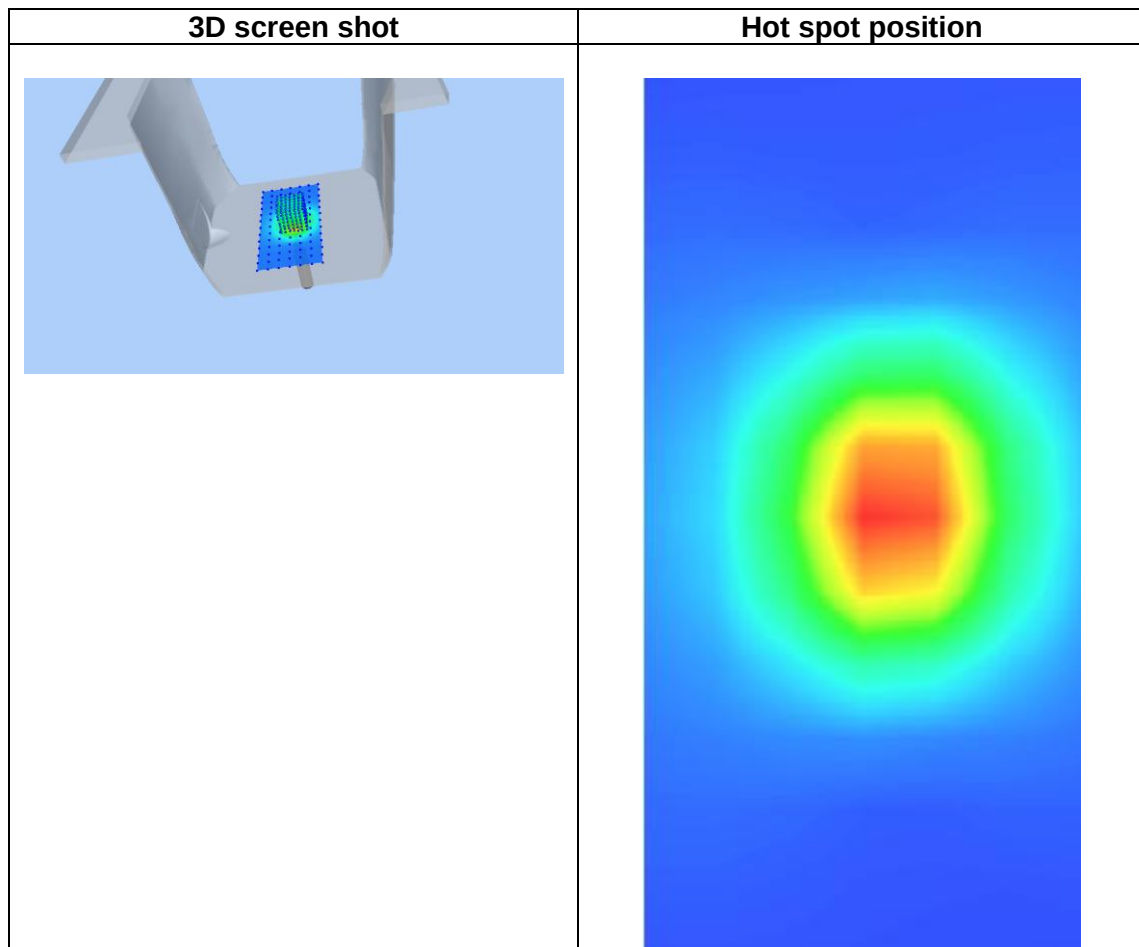
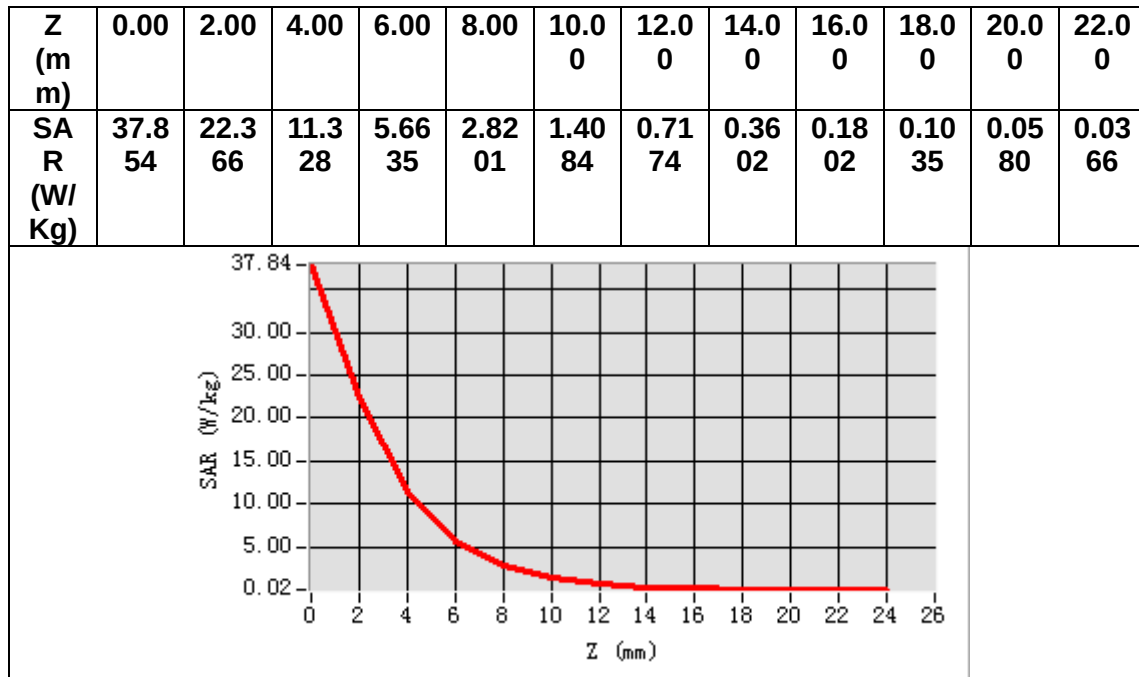
Frequency (MHz)	5200.000000
Relative permittivity (real part)	37.400000
Relative permittivity (imaginary part)	16.129999
Conductivity (S/m)	4.510778
Variation (%)	-4.570000



Maximum location: X=0.00, Y=1.00

SAR Peak: 15.14 W/kg

SAR 10g (W/Kg)	5.212361
SAR 1g (W/Kg)	14.712032



MEASUREMENT 7

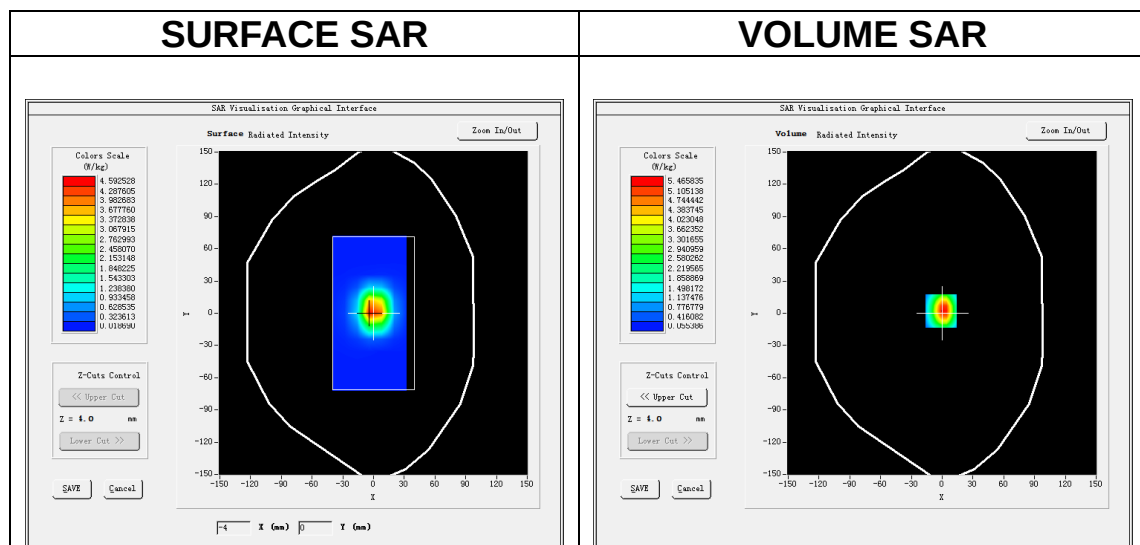
Date of measurement: 14/7/2025

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>2.27</u>

B. SAR Measurement Results

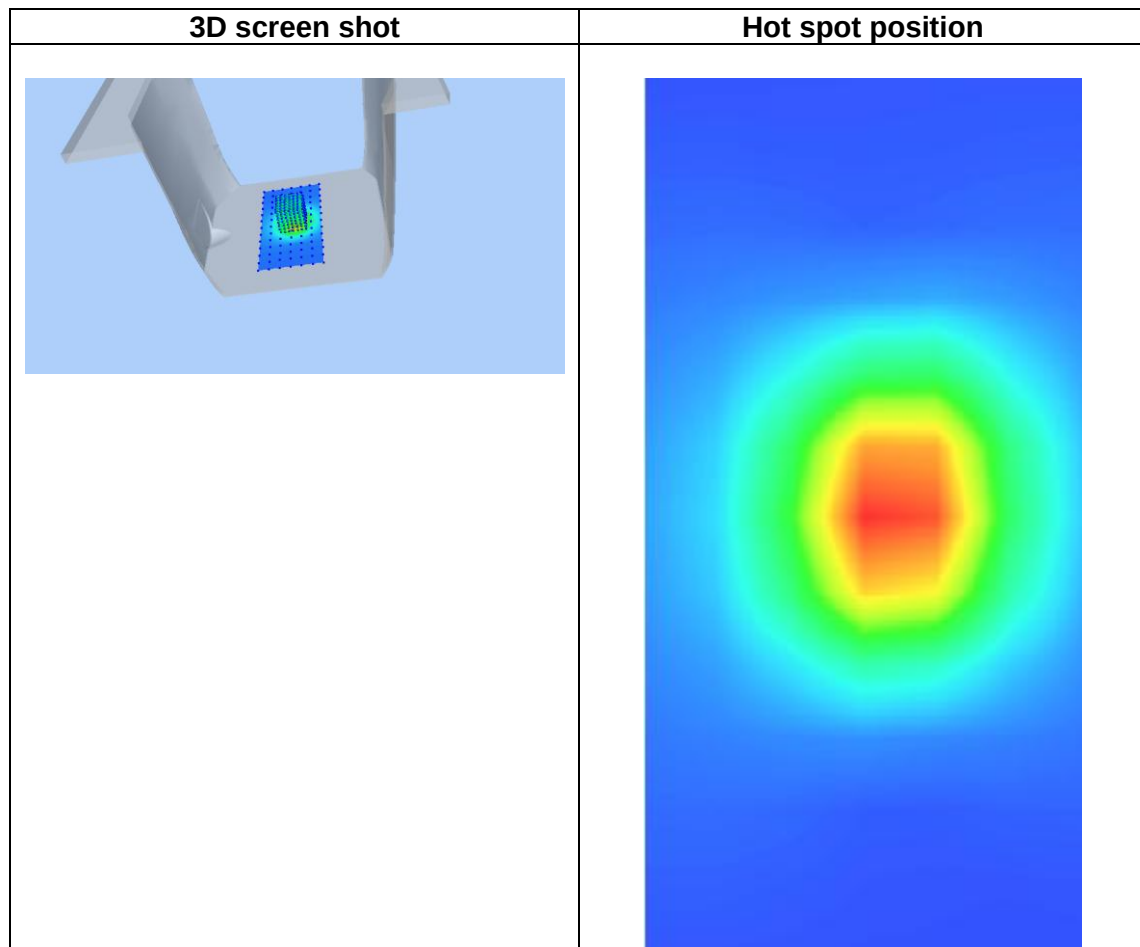
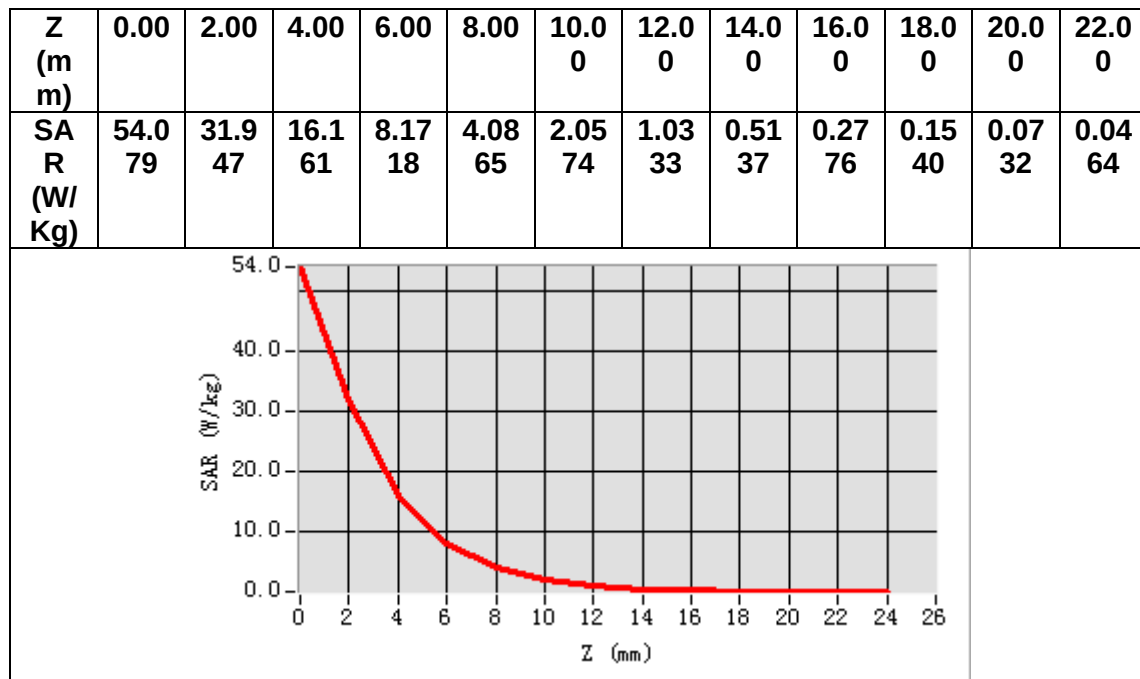
Frequency (MHz)	5800.000000
Relative permittivity (real part)	35.299999
Relative permittivity (imaginary part)	16.360001
Conductivity (S/m)	5.271556
Variation (%)	-2.480000



Maximum location: X=-1.00, Y=2.00

SAR Peak: 17.07 W/kg

SAR 10g (W/Kg)	5.623106
SAR 1g (W/Kg)	16.421035



Appendix C. SAR Test Plots

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MEASUREMENT 7 WCDMA Band 4 Head
MEASUREMENT 8 WCDMA Band 4 Body
MEASUREMENT 9 WCDMA Band 5 Head
MEASUREMENT 10 WCDMA Band 5 Body
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MEASUREMENT 18 LTE Band 2 Body
MEASUREMENT 19 LTE Band 4 Head
MEASUREMENT 20 LTE Band 4 Body
MEASUREMENT 21 LTE Band 5 Head
MEASUREMENT 22 LTE Band 5 Body
MEASUREMENT 23 LTE Band 7 Head
MEASUREMENT 24 LTE Band 7 Body

MEASUREMENT 1

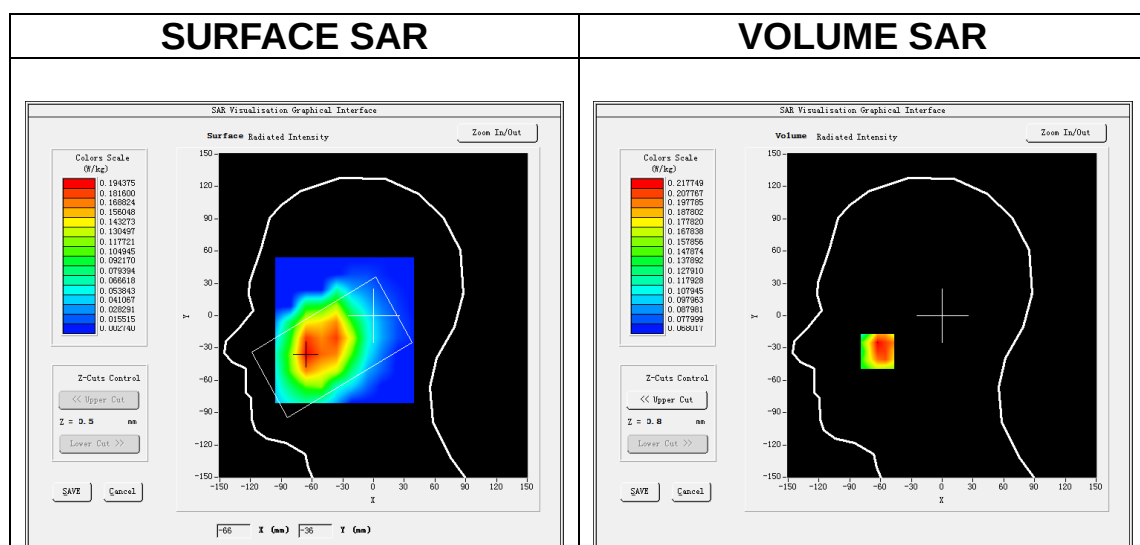
Date of measurement: 3/7/2025

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>Body</u>
Band	<u>GSM850</u>
Channels	<u>Middle</u>
Signal	<u>TDMA (Crest factor: 4.0)</u>
ConvF	<u>1.66</u>

B. SAR Measurement Results

Frequency (MHz)	836.400024
Relative permittivity (real part)	41.500000
Relative permittivity (imaginary part)	19.400000
Conductivity (S/m)	0.901453
Variation (%)	3.030000

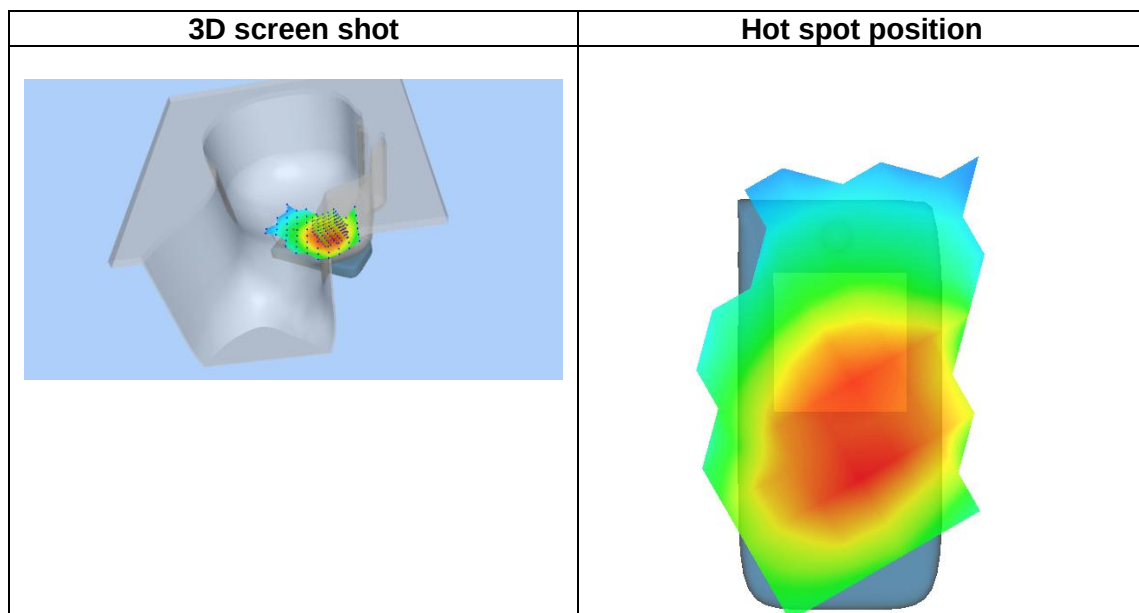
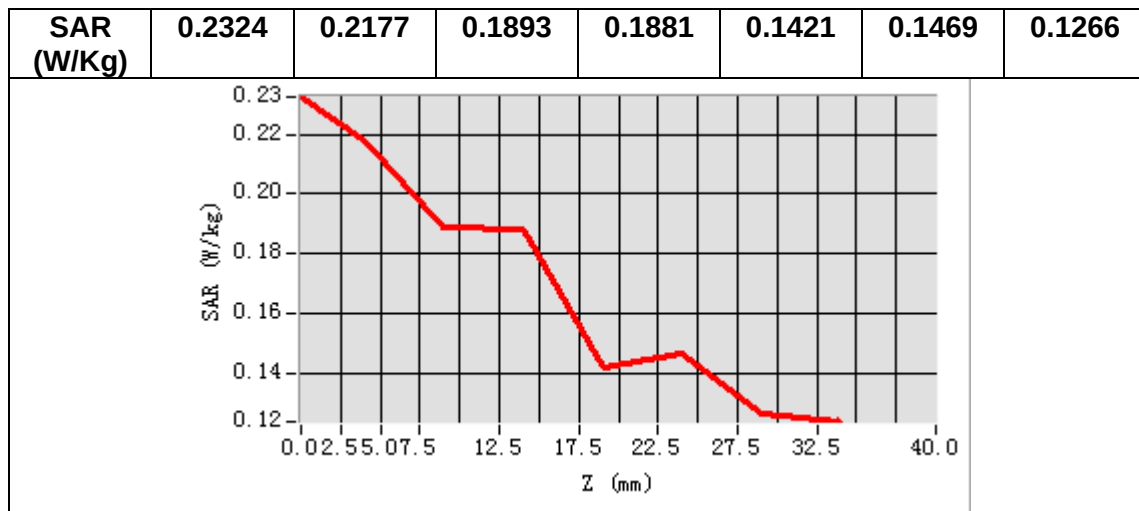


Maximum location: X=-63.00, Y=-33.00

SAR Peak: 0.30 W/kg

SAR 10g (W/Kg)	0.182507
SAR 1g (W/Kg)	0.220890

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
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MEASUREMENT 2

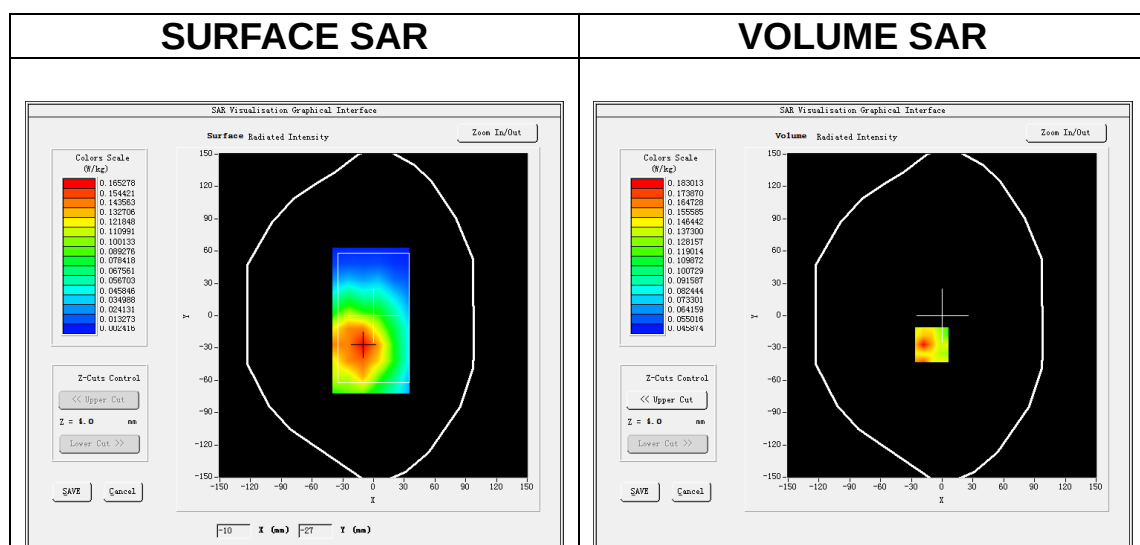
Date of measurement: 3/7/2025

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: 4.0)</u>
<u>ConvF</u>	<u>1.66</u>

B. SAR Measurement Results

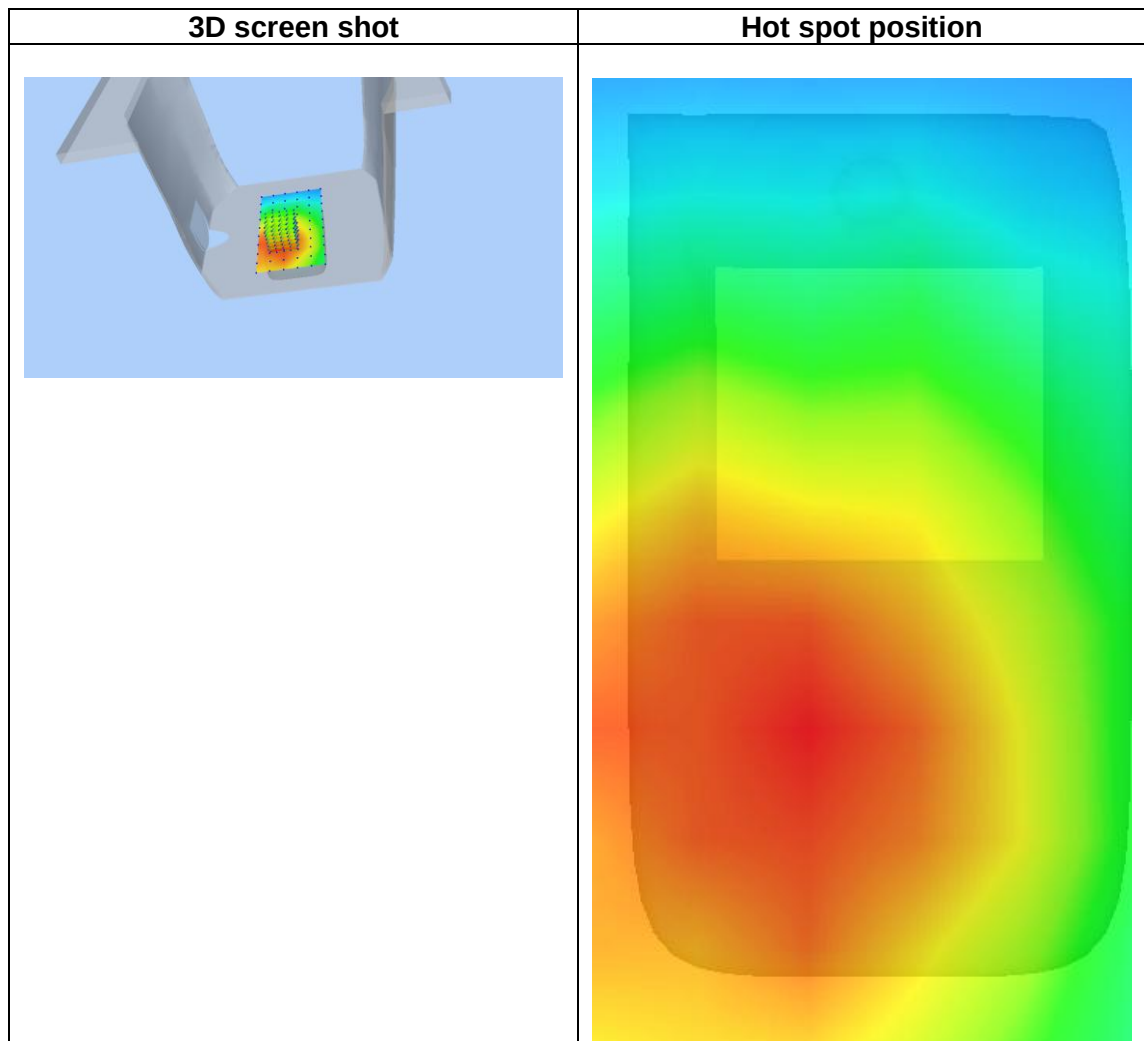
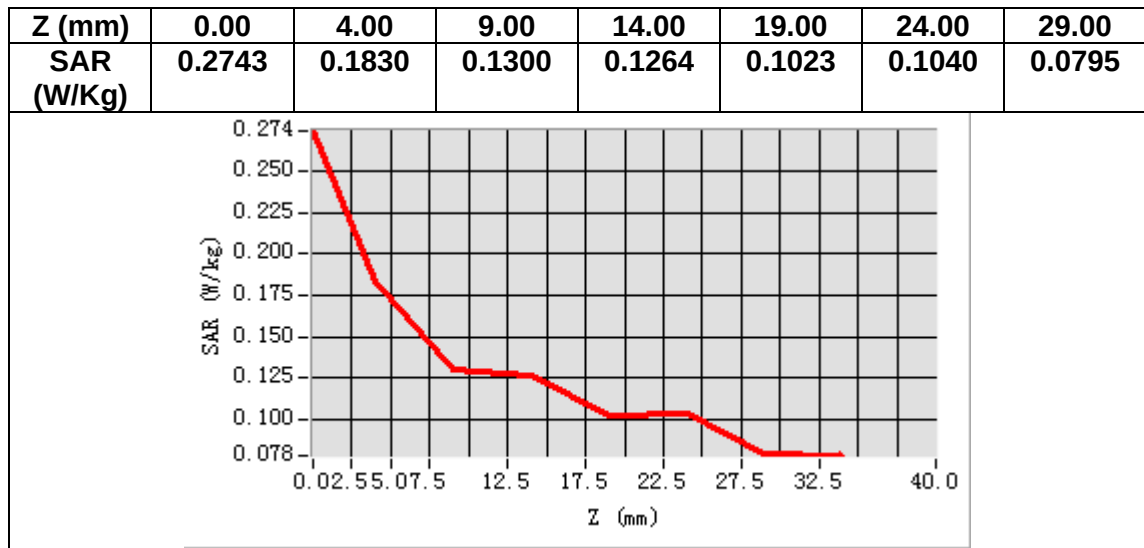
Frequency (MHz)	836.400024
Relative permittivity (real part)	41.500000
Relative permittivity (imaginary part)	19.400000
Conductivity (S/m)	0.901453
Variation (%)	2.170000



Maximum location: X=-10.00, Y=-27.00

SAR Peak: 0.27 W/kg

SAR 10g (W/Kg)	0.131648
SAR 1g (W/Kg)	0.161061



MEASUREMENT 3

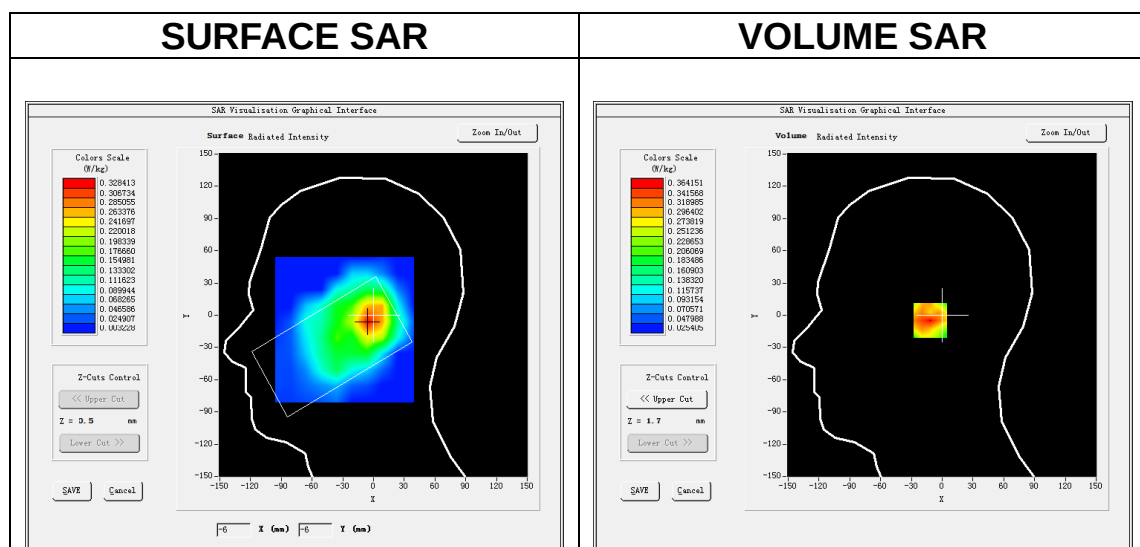
Date of measurement: 7/7/2025

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>Body</u>
<u>Band</u>	<u>GSM1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>TDMA (Crest factor: 2.0)</u>
<u>ConvF</u>	<u>2.05</u>

B. SAR Measurement Results

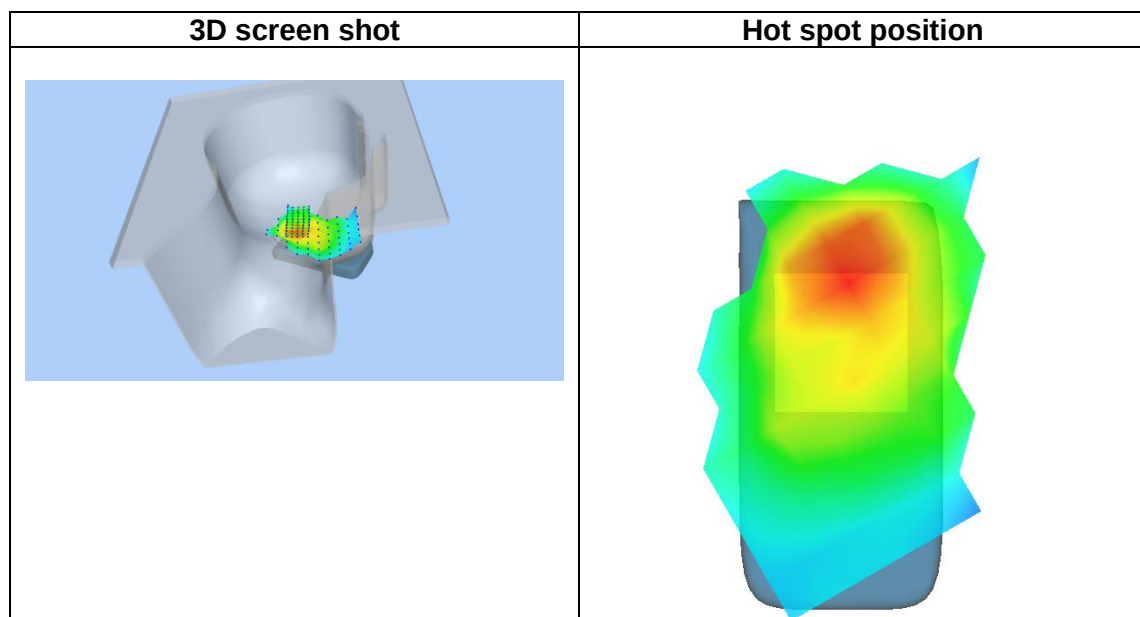
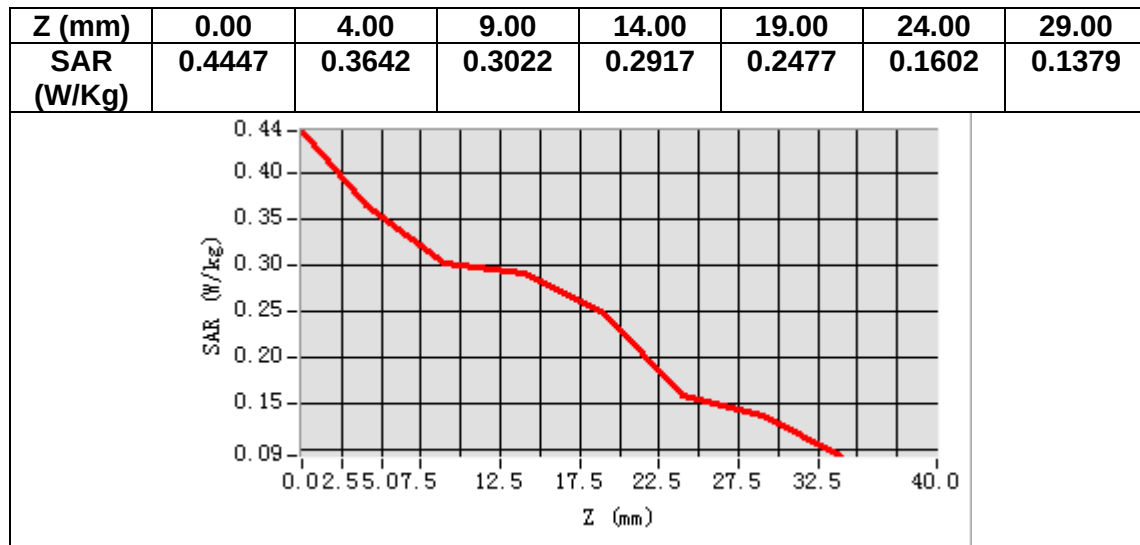
Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.000000
Relative permittivity (imaginary part)	13.408000
Conductivity (S/m)	1.400391
Variation (%)	3.490000



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

SAR Peak: 0.57 W/kg

SAR 10g (W/Kg)	0.263067
SAR 1g (W/Kg)	0.367523



MEASUREMENT 4

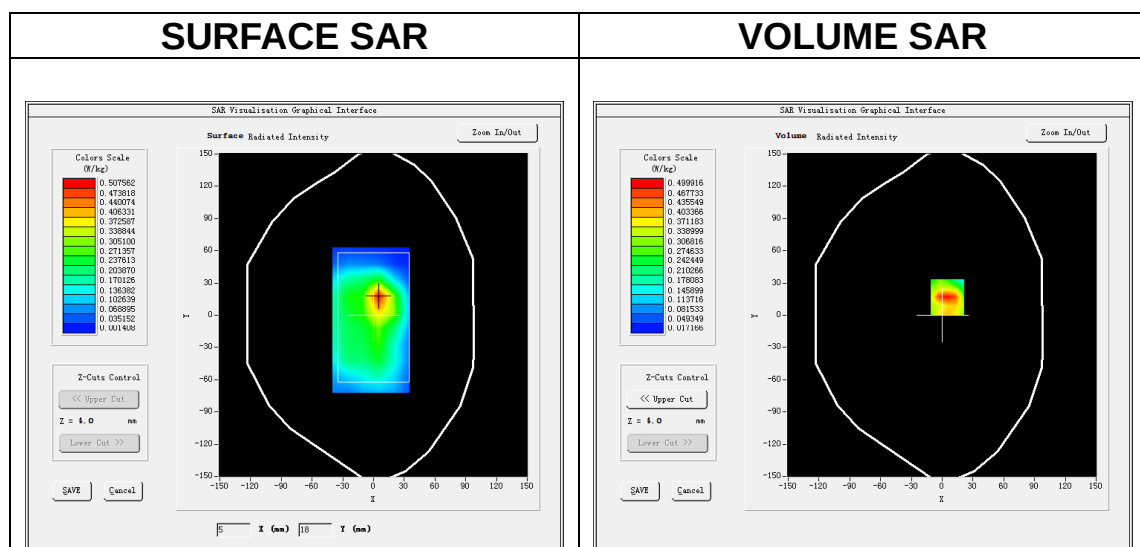
Date of measurement: 7/7/2025

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: 2.0)</u>
<u>ConvF</u>	<u>2.05</u>

B. SAR Measurement Results

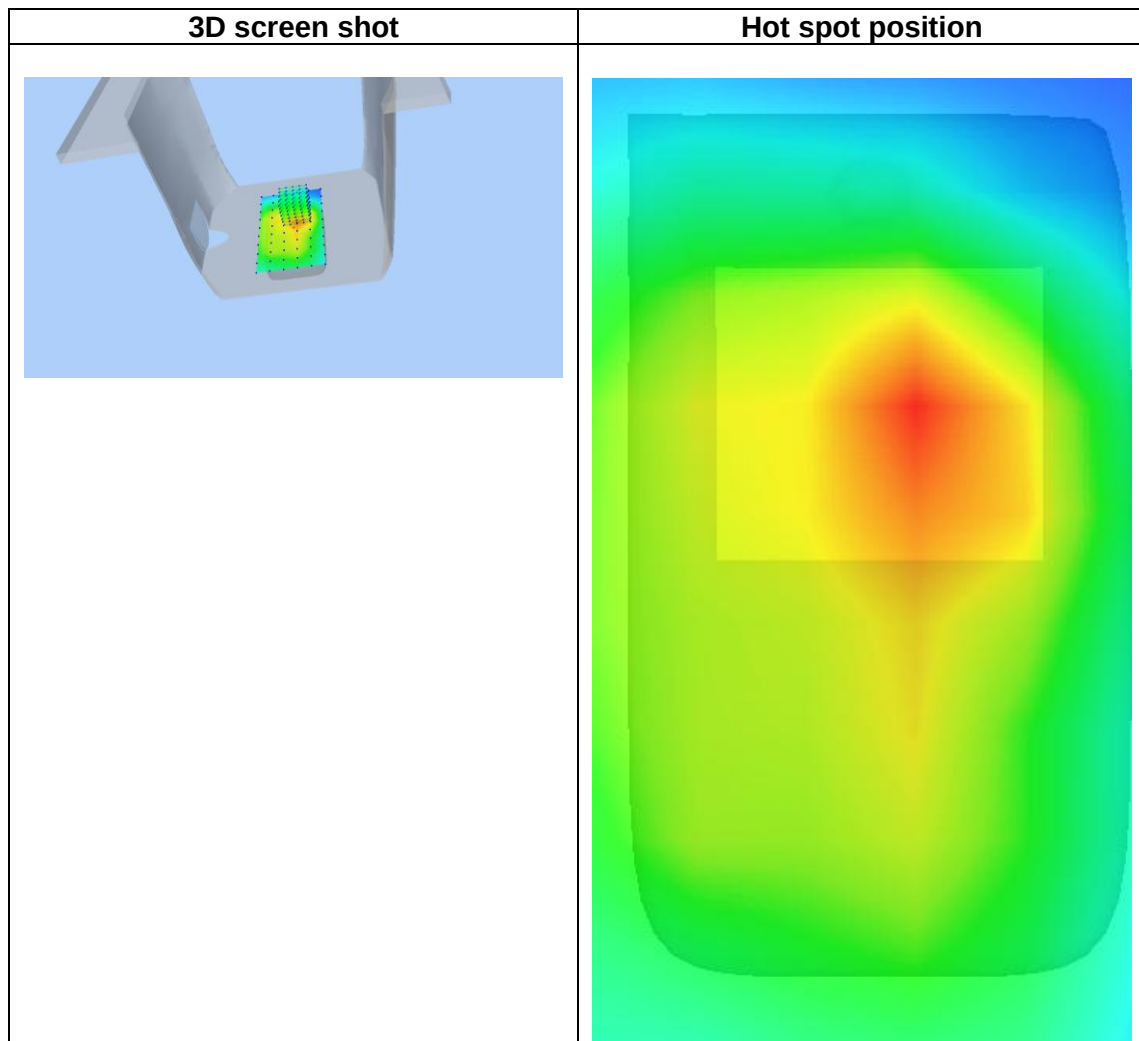
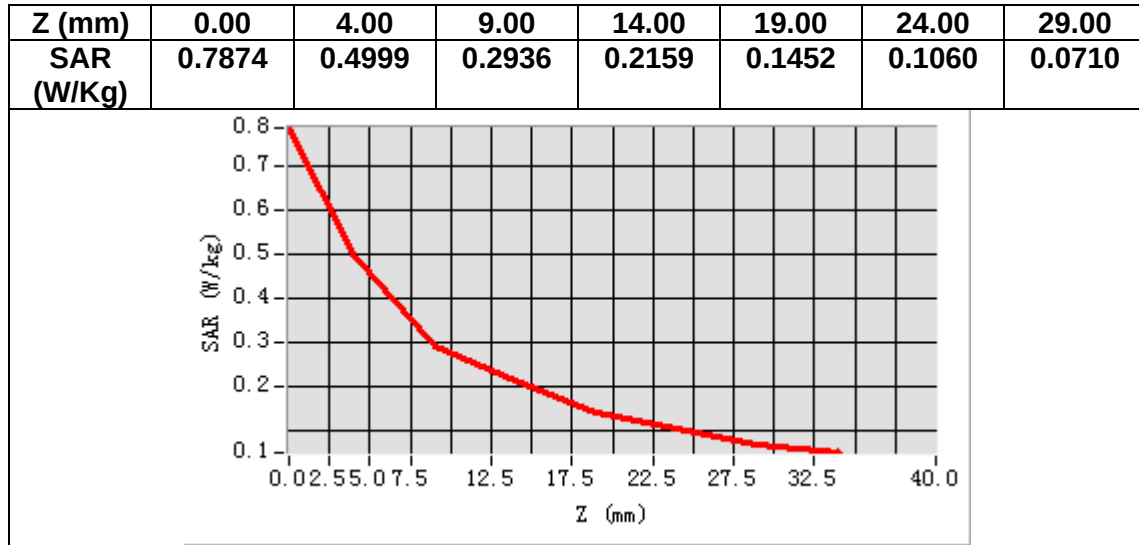
Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.000000
Relative permittivity (imaginary part)	13.408000
Conductivity (S/m)	1.400391
Variation (%)	-0.250000



Maximum location: X=5.00, Y=17.00

SAR Peak: 0.79 W/kg

SAR 10g (W/Kg)	0.281480
SAR 1g (W/Kg)	0.465746



MEASUREMENT 5

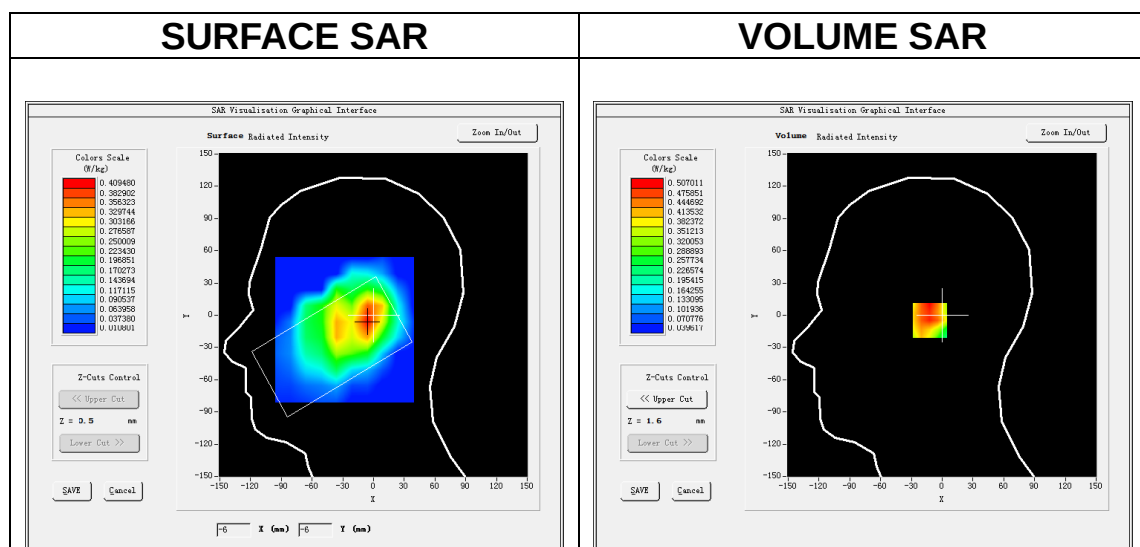
Date of measurement: 7/7/2025

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>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>2.05</u>

B. SAR Measurement Results

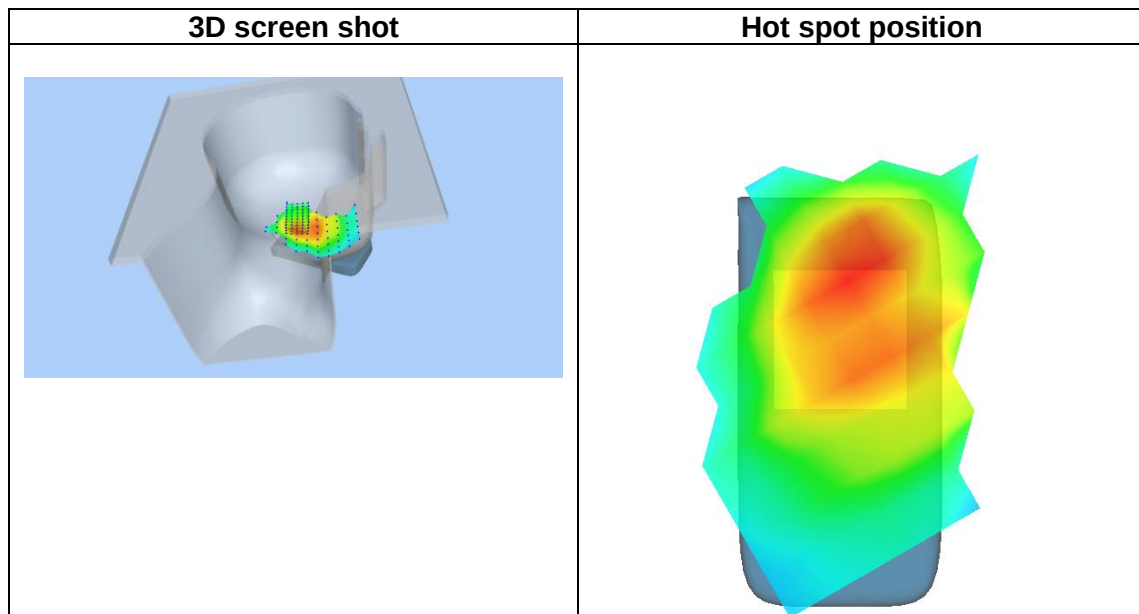
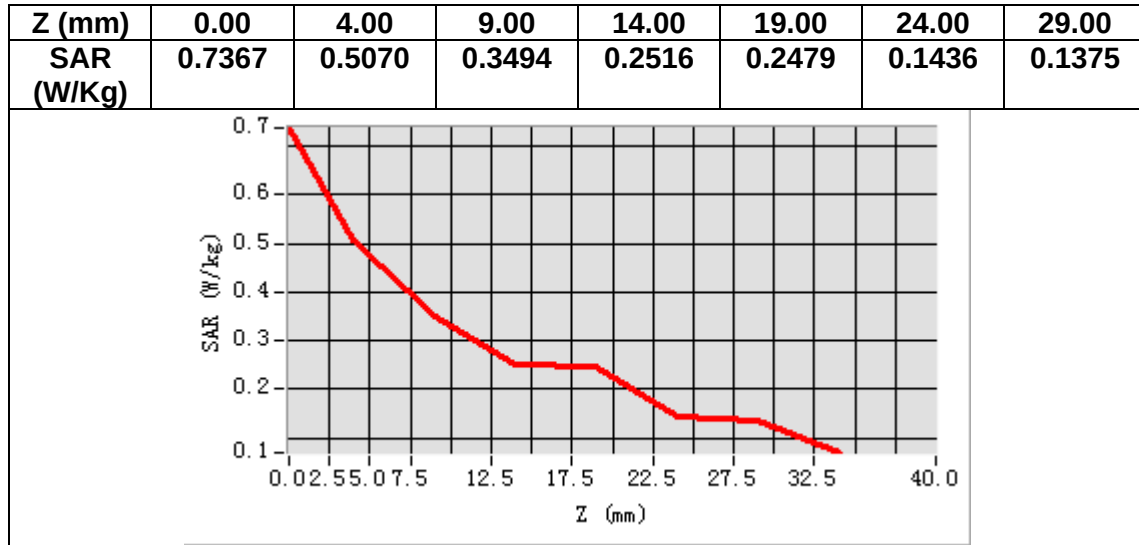
Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.000000
Relative permittivity (imaginary part)	13.408000
Conductivity (S/m)	1.400391
Variation (%)	-1.600000



Maximum location: X=-6.00, Y=-5.00

SAR Peak: 0.72 W/kg

SAR 10g (W/Kg)	0.356455
SAR 1g (W/Kg)	0.494263



MEASUREMENT 6

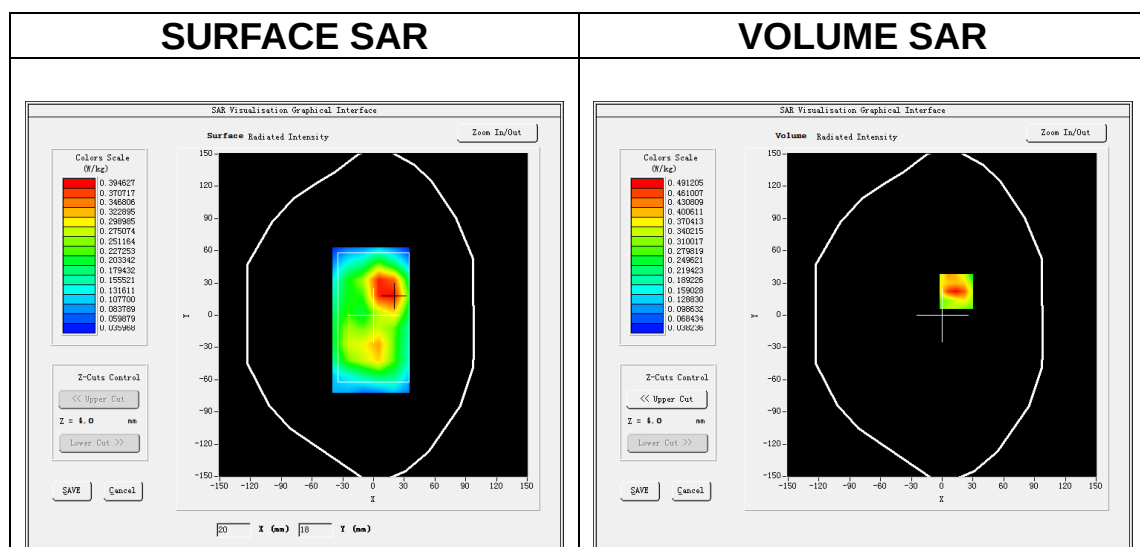
Date of measurement: 7/7/2025

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>2.05</u>

B. SAR Measurement Results

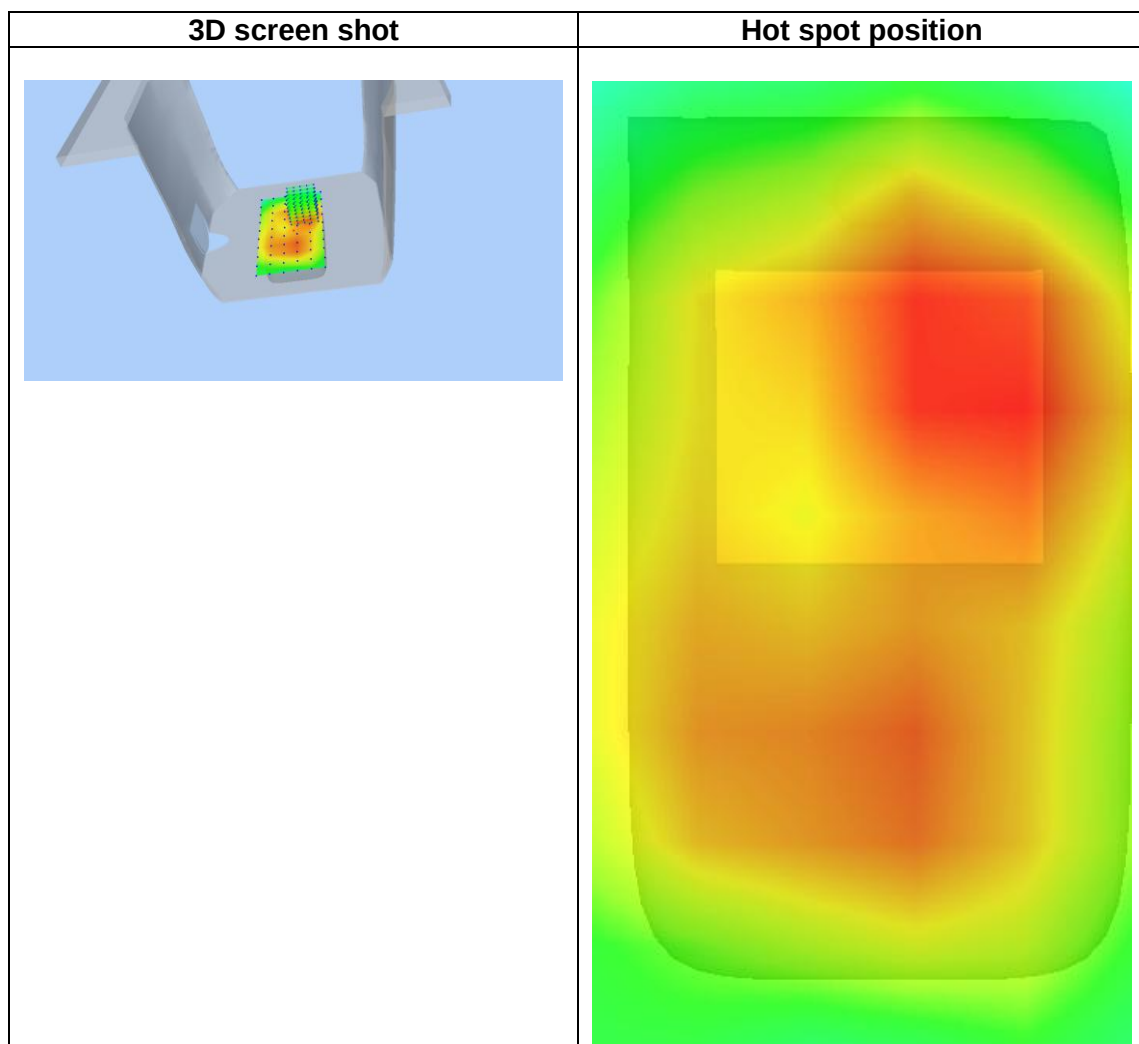
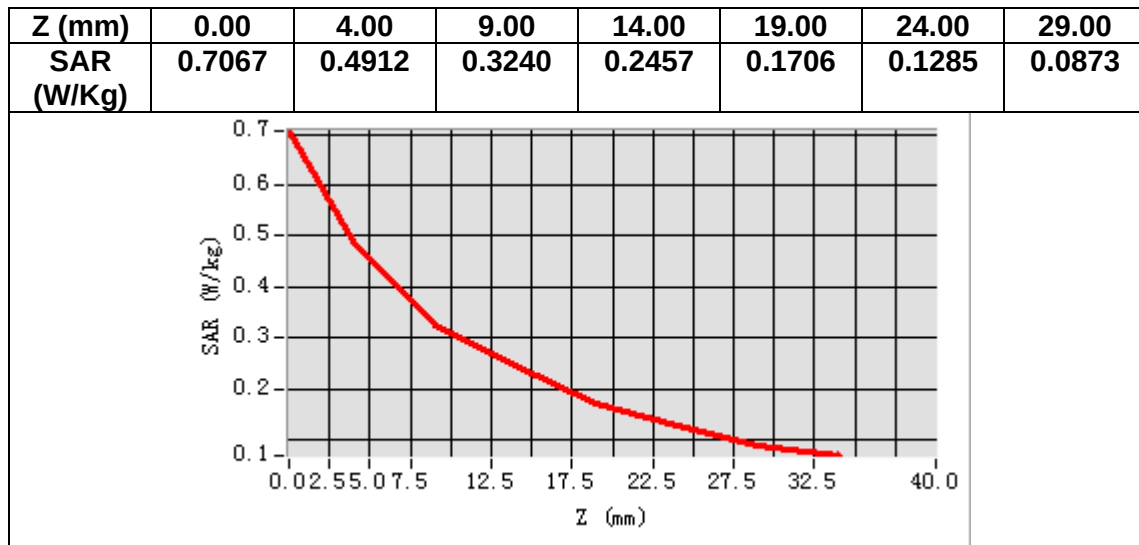
Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.000000
Relative permittivity (imaginary part)	13.408000
Conductivity (S/m)	1.400391
Variation (%)	-3.020000



Maximum location: X=14.00, Y=22.00

SAR Peak: 0.73 W/kg

SAR 10g (W/Kg)	0.288717
SAR 1g (W/Kg)	0.458691



MEASUREMENT 7

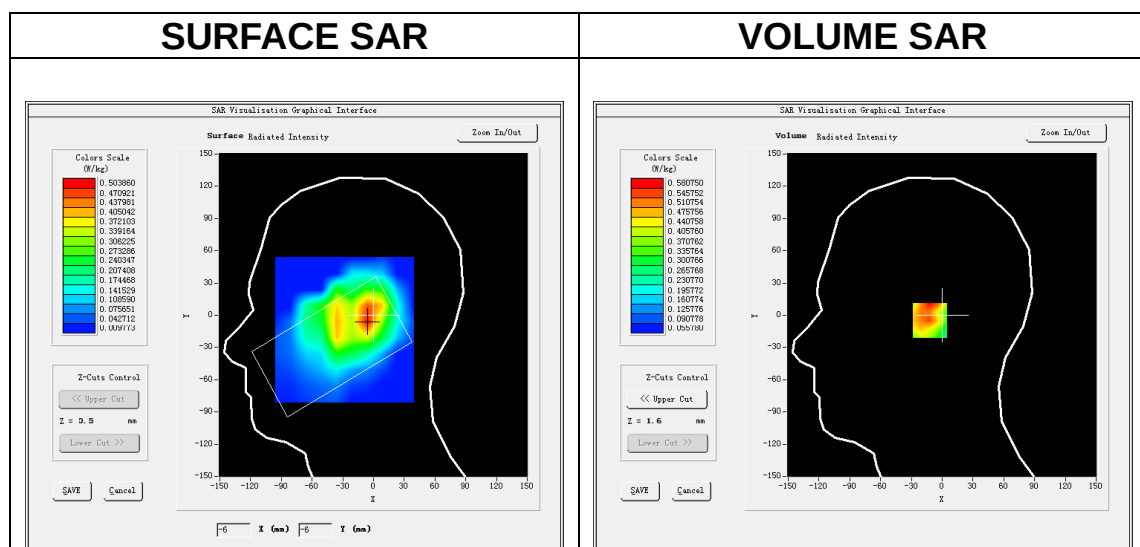
Date of measurement: 4/7/2025

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>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>2.05</u>

B. SAR Measurement Results

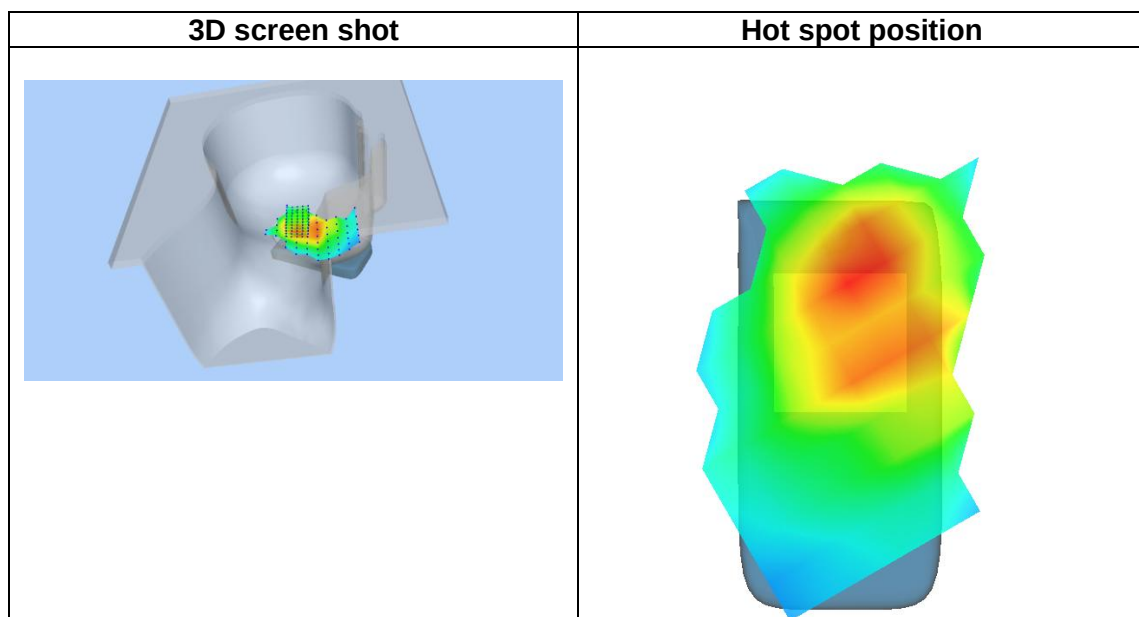
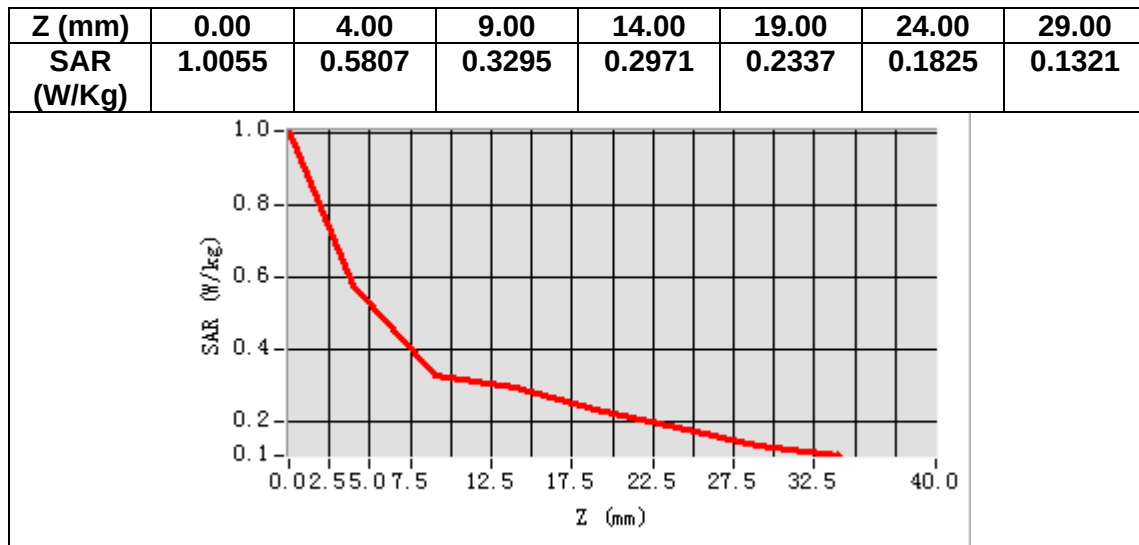
Frequency (MHz)	1732.600000
Relative permittivity (real part)	40.116364
Relative permittivity (imaginary part)	14.137455
Conductivity (S/m)	1.360809
Variation (%)	0.090000



Maximum location: X=-6.00, Y=-5.00

SAR Peak: 0.81 W/kg

SAR 10g (W/Kg)	0.414012
SAR 1g (W/Kg)	0.550332



MEASUREMENT 8

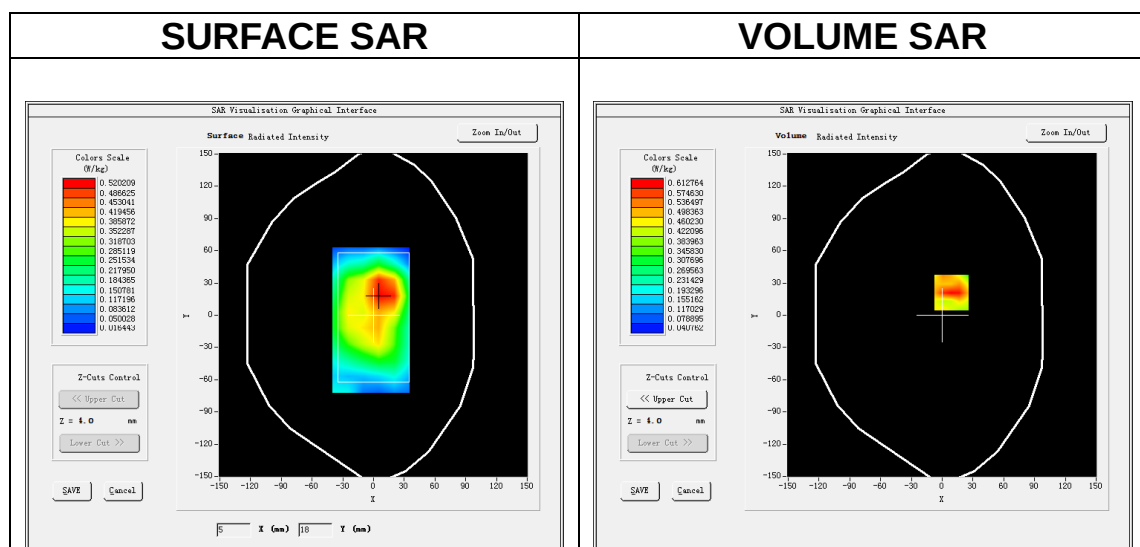
Date of measurement: 4/7/2025

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>2.05</u>

B. SAR Measurement Results

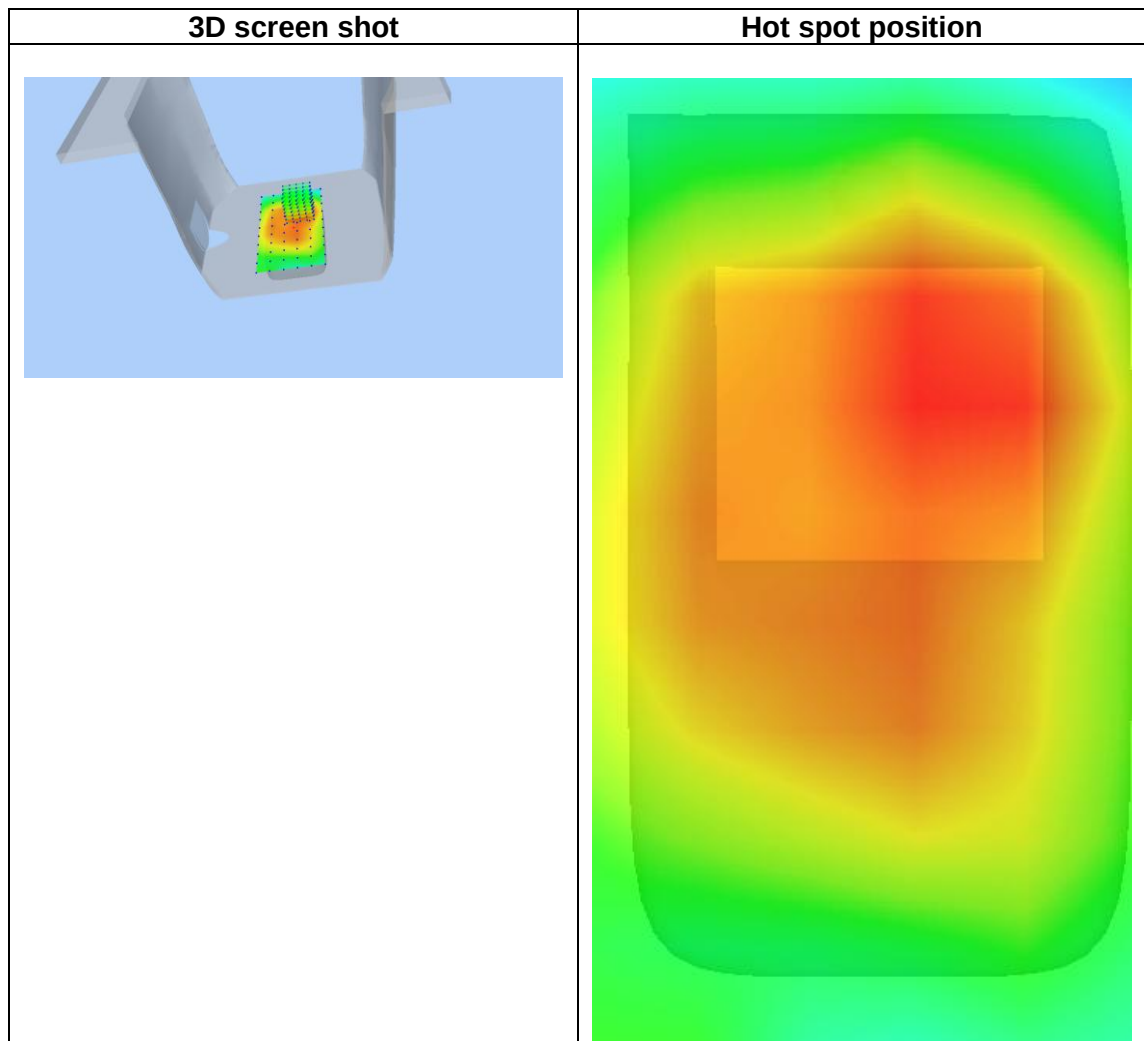
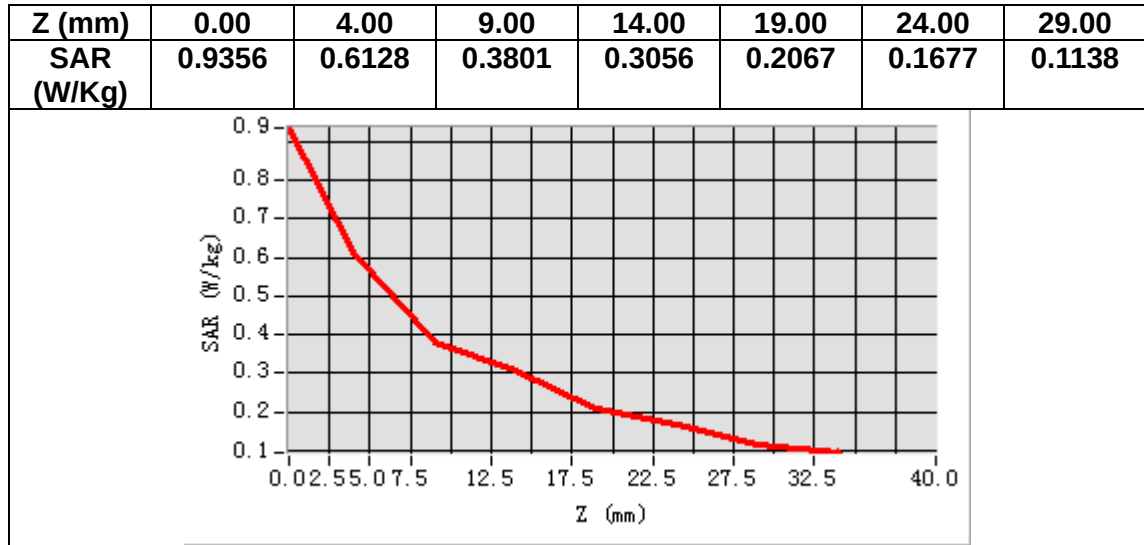
Frequency (MHz)	1732.600000
Relative permittivity (real part)	40.116364
Relative permittivity (imaginary part)	14.137455
Conductivity (S/m)	1.360809
Variation (%)	-0.130000



Maximum location: X=9.00, Y=21.00

SAR Peak: 0.92 W/kg

SAR 10g (W/Kg)	0.368816
SAR 1g (W/Kg)	0.575082



MEASUREMENT 9

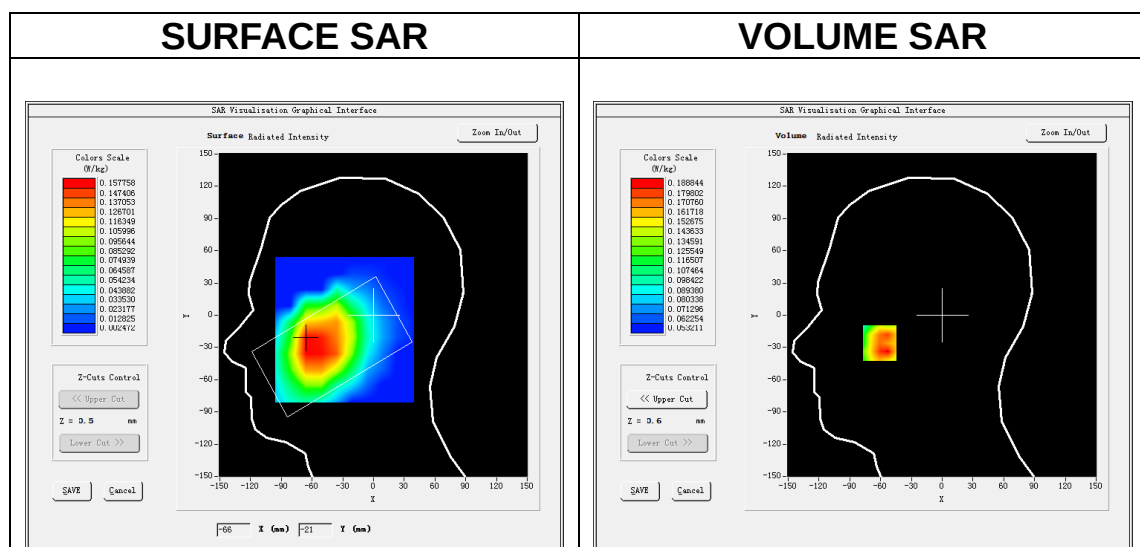
Date of measurement: 3/7/2025

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>Body</u>
<u>Band</u>	<u>Band5 WCDMA850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>1.66</u>

B. SAR Measurement Results

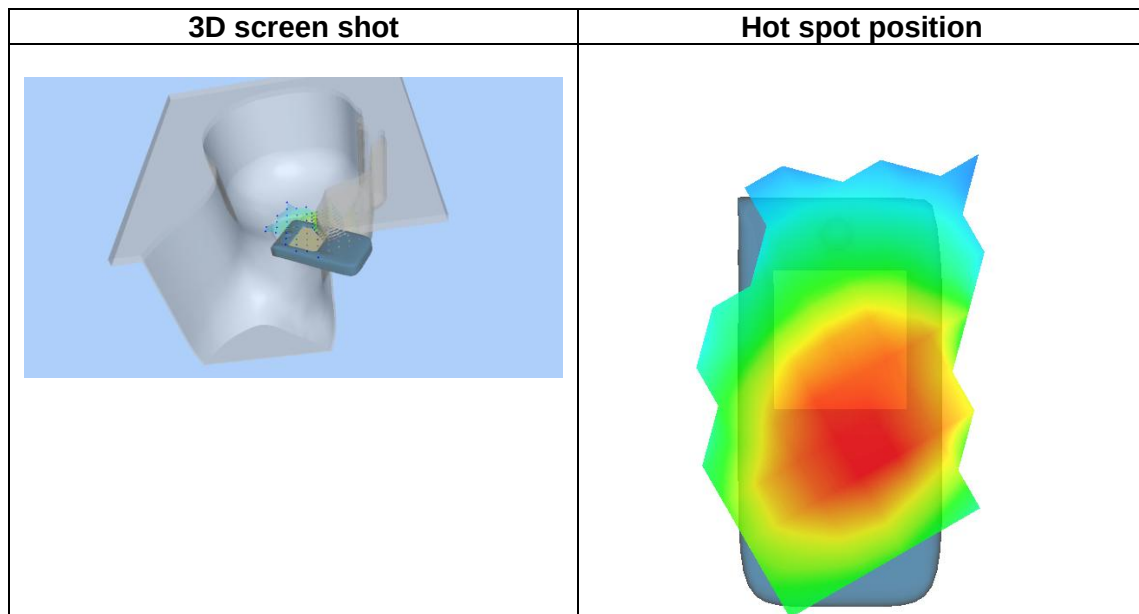
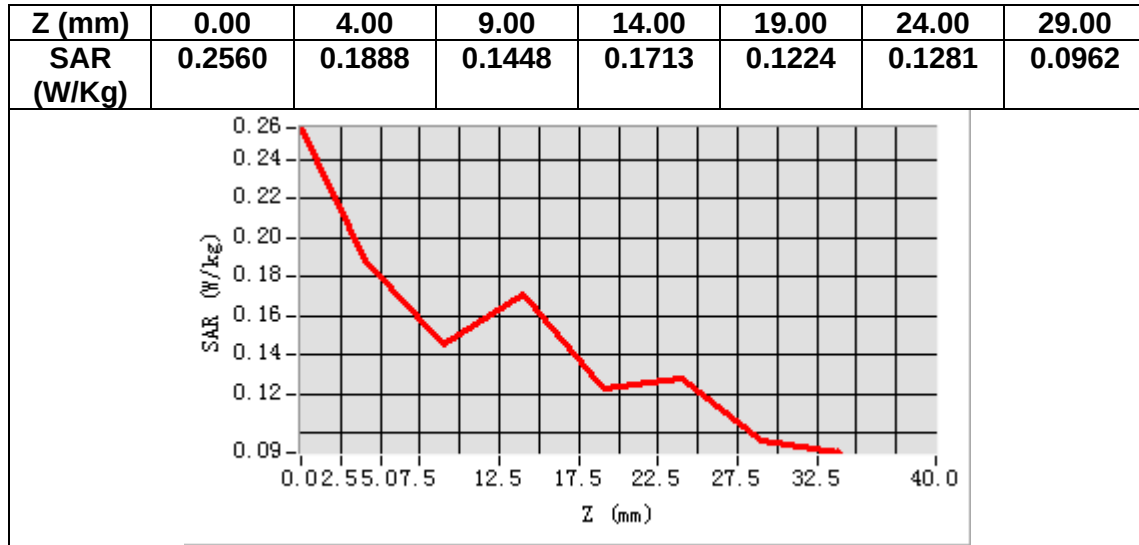
Frequency (MHz)	836.400024
Relative permittivity (real part)	41.500000
Relative permittivity (imaginary part)	19.400000
Conductivity (S/m)	0.901453
Variation (%)	0.960000



Maximum location: X=-61.00, Y=-26.00

SAR Peak: 0.26 W/kg

SAR 10g (W/Kg)	0.157935
SAR 1g (W/Kg)	0.188519



MEASUREMENT 10

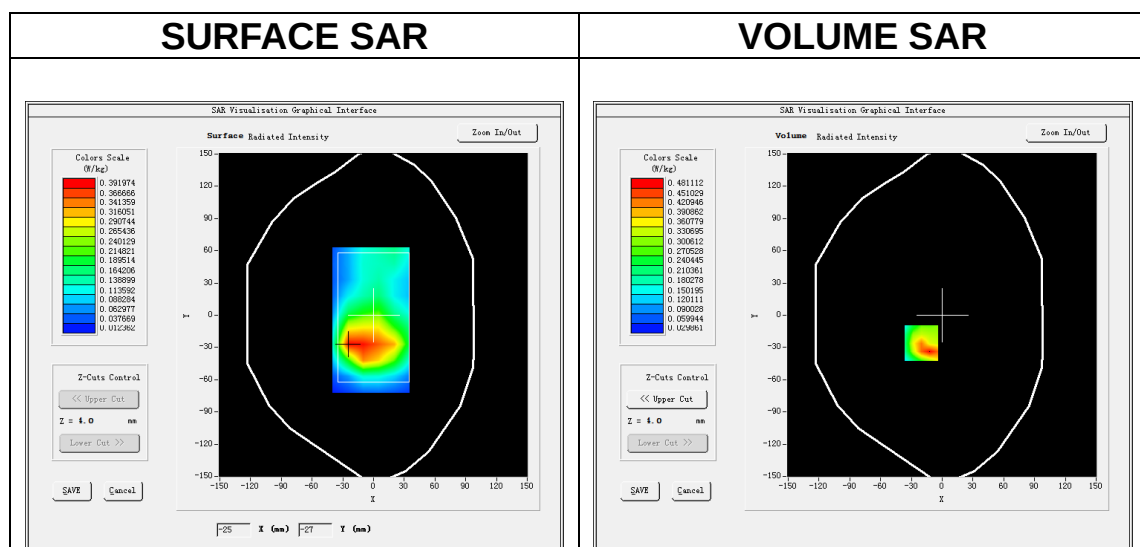
Date of measurement: 3/7/2025

A. Experimental conditions.

Area Scan	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Body</u>
Band	<u>Band5 WCDMA850</u>
Channels	<u>Middle</u>
Signal	<u>WCDMA (Crest factor: 1.0)</u>
ConvF	<u>1.66</u>

B. SAR Measurement Results

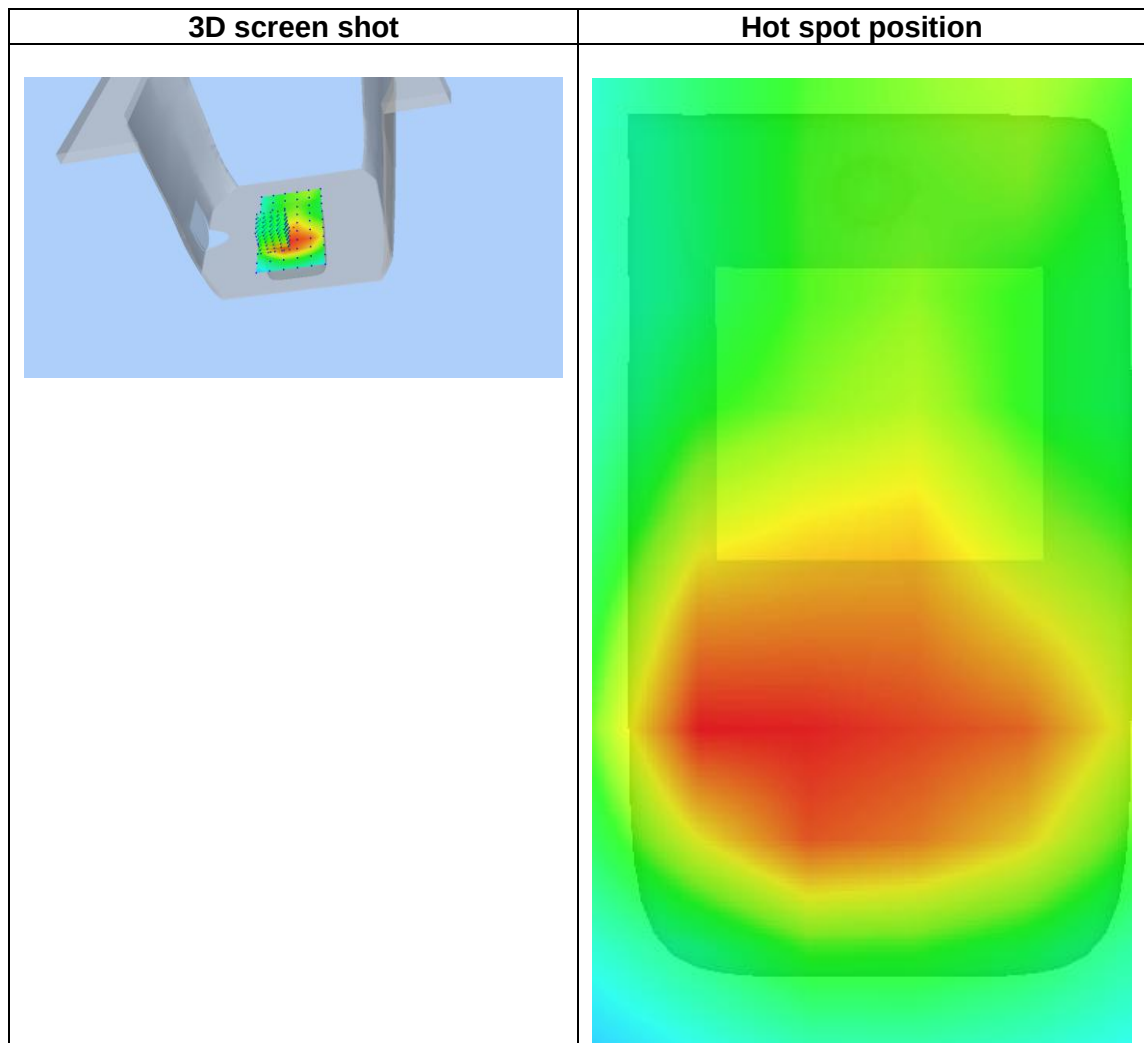
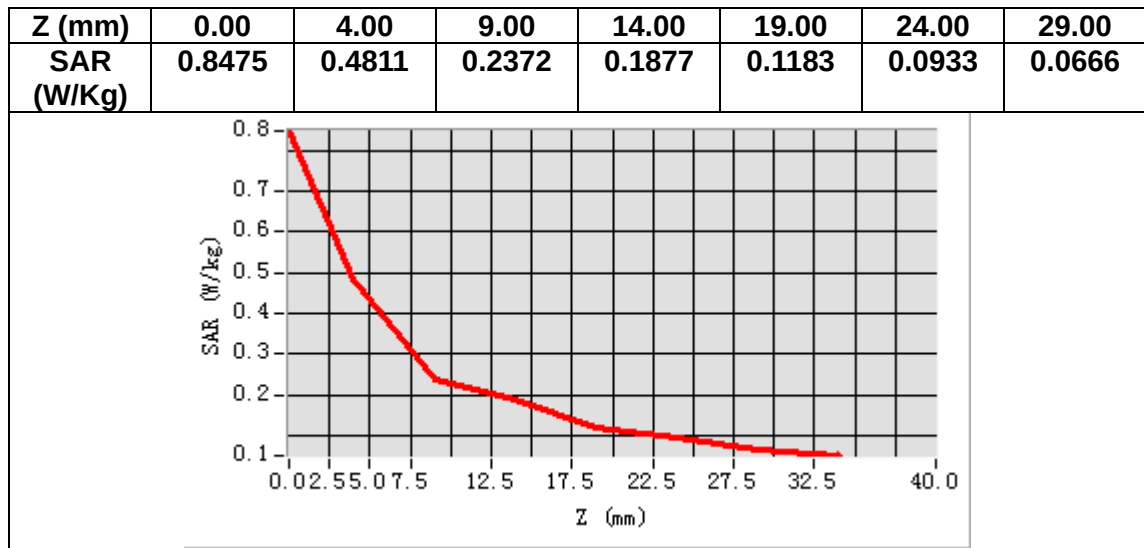
Frequency (MHz)	836.400024
Relative permittivity (real part)	41.500000
Relative permittivity (imaginary part)	19.400000
Conductivity (S/m)	0.901453
Variation (%)	2.050000



Maximum location: X=-20.00, Y=-26.00

SAR Peak: 0.83 W/kg

SAR 10g (W/Kg)	0.260867
SAR 1g (W/Kg)	0.445656



MEASUREMENT 11

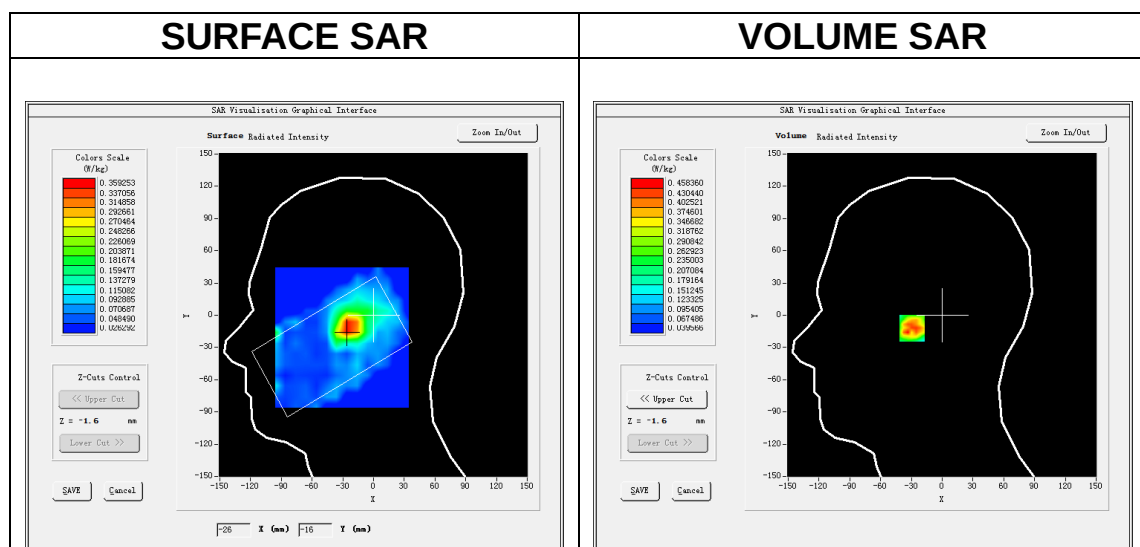
Date of measurement: 10/7/2025

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.a (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.30</u>

B. SAR Measurement Results

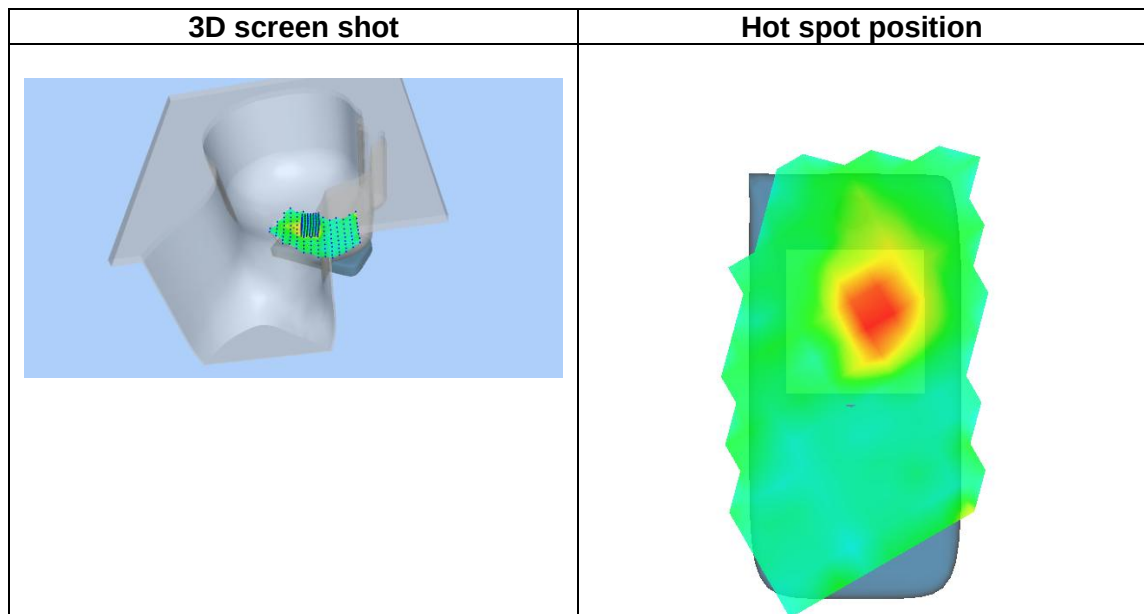
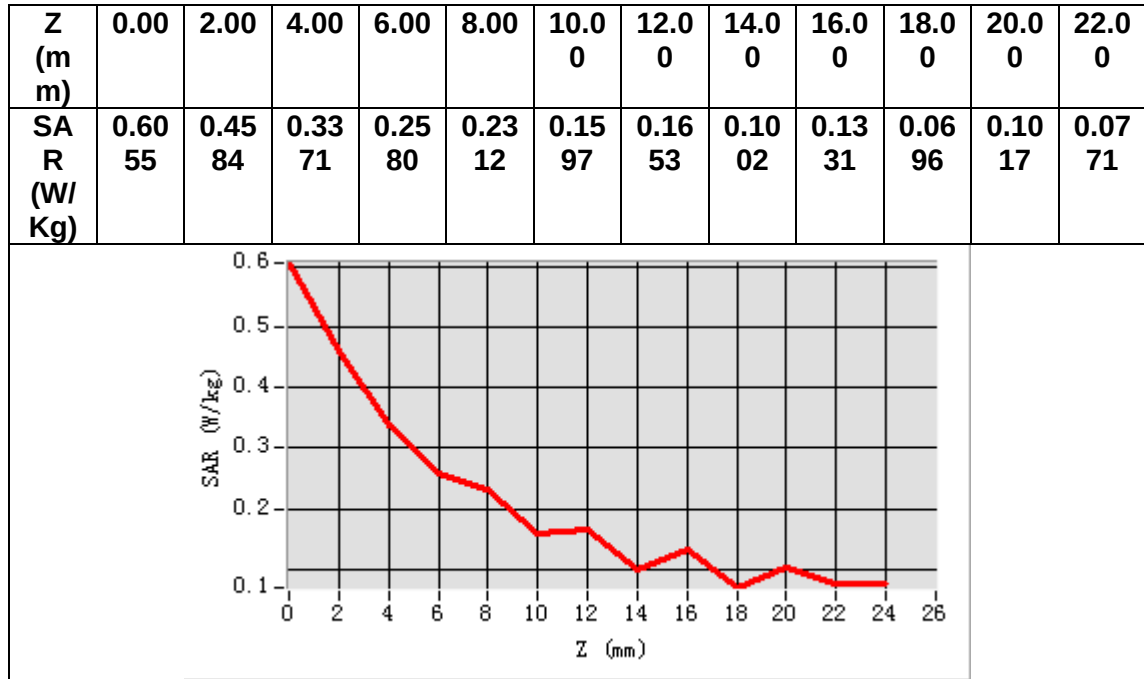
Frequency (MHz)	5200.000000
Relative permittivity (real part)	37.400000
Relative permittivity (imaginary part)	16.129999
Conductivity (S/m)	4.510778
Variation (%)	-0.120000



Maximum location: X=-24.00, Y=-12.00

SAR Peak: 0.89 W/kg

SAR 10g (W/Kg)	0.221044
SAR 1g (W/Kg)	0.383269



MEASUREMENT 12

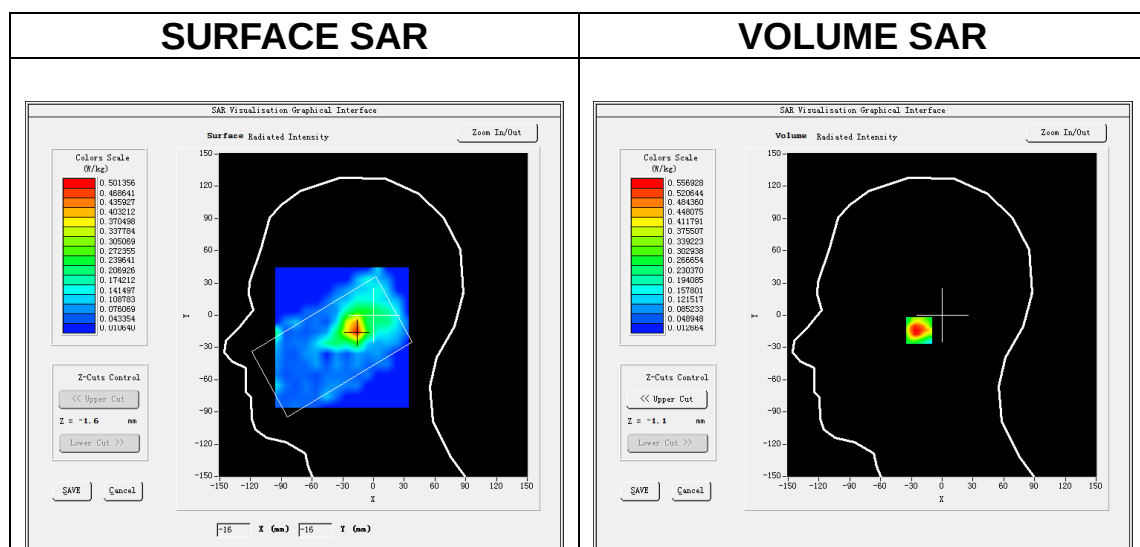
Date of measurement: 14/7/2025

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.a (Crest factor: 1.0)</u>
ConvF	<u>2.27</u>

B. SAR Measurement Results

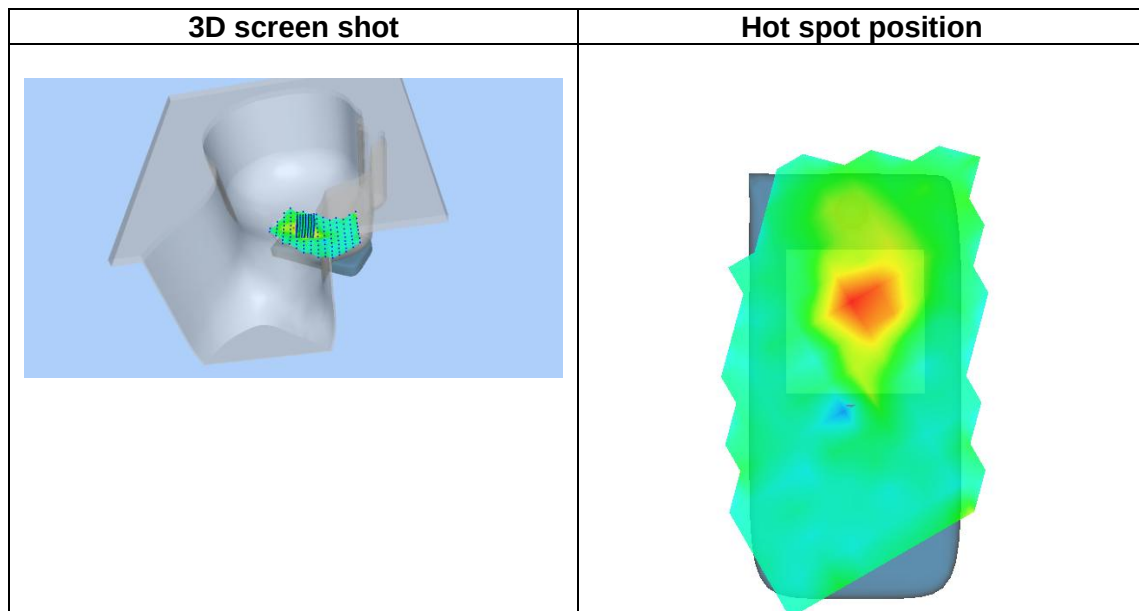
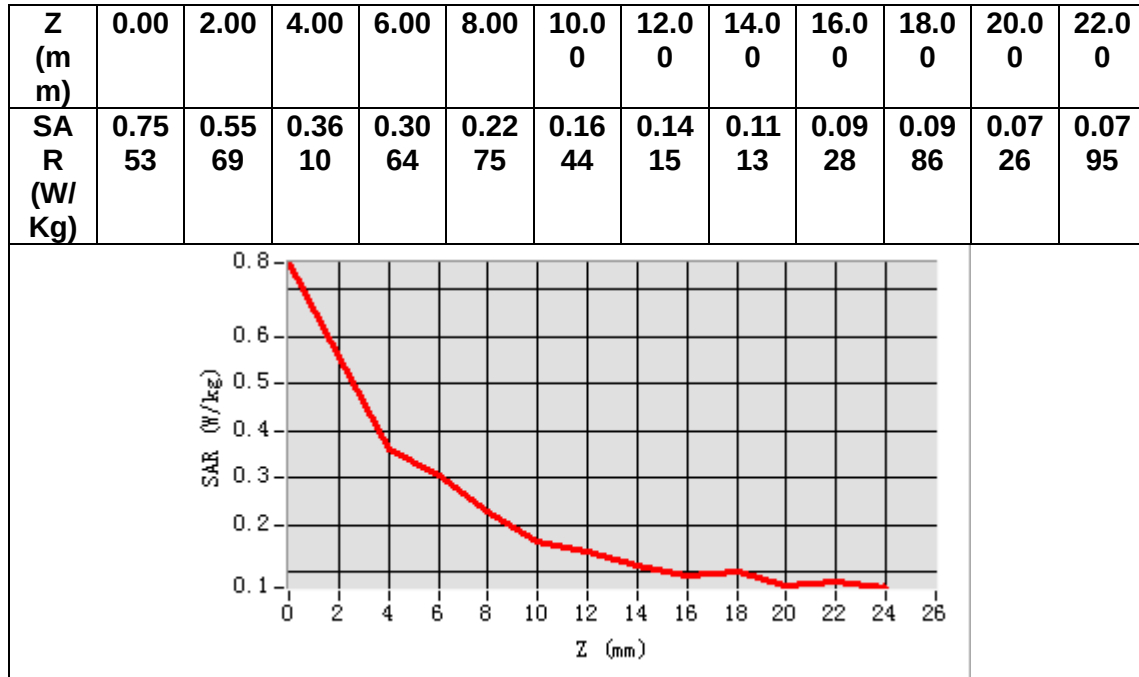
Frequency (MHz)	5785.000000
Relative permittivity (real part)	35.314999
Relative permittivity (imaginary part)	16.355499
Conductivity (S/m)	5.256476
Variation (%)	-0.500000



Maximum location: X=-17.00, Y=-14.00

SAR Peak: 1.21 W/kg

SAR 10g (W/Kg)	0.246390
SAR 1g (W/Kg)	0.514018



MEASUREMENT 13

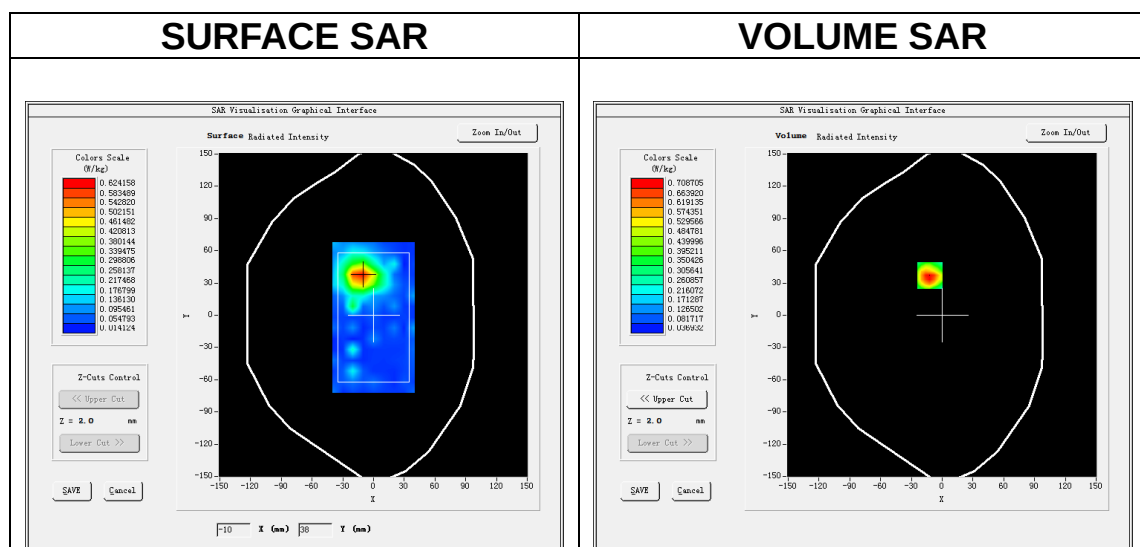
Date of measurement: 10/7/2025

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.a (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.30</u>

B. SAR Measurement Results

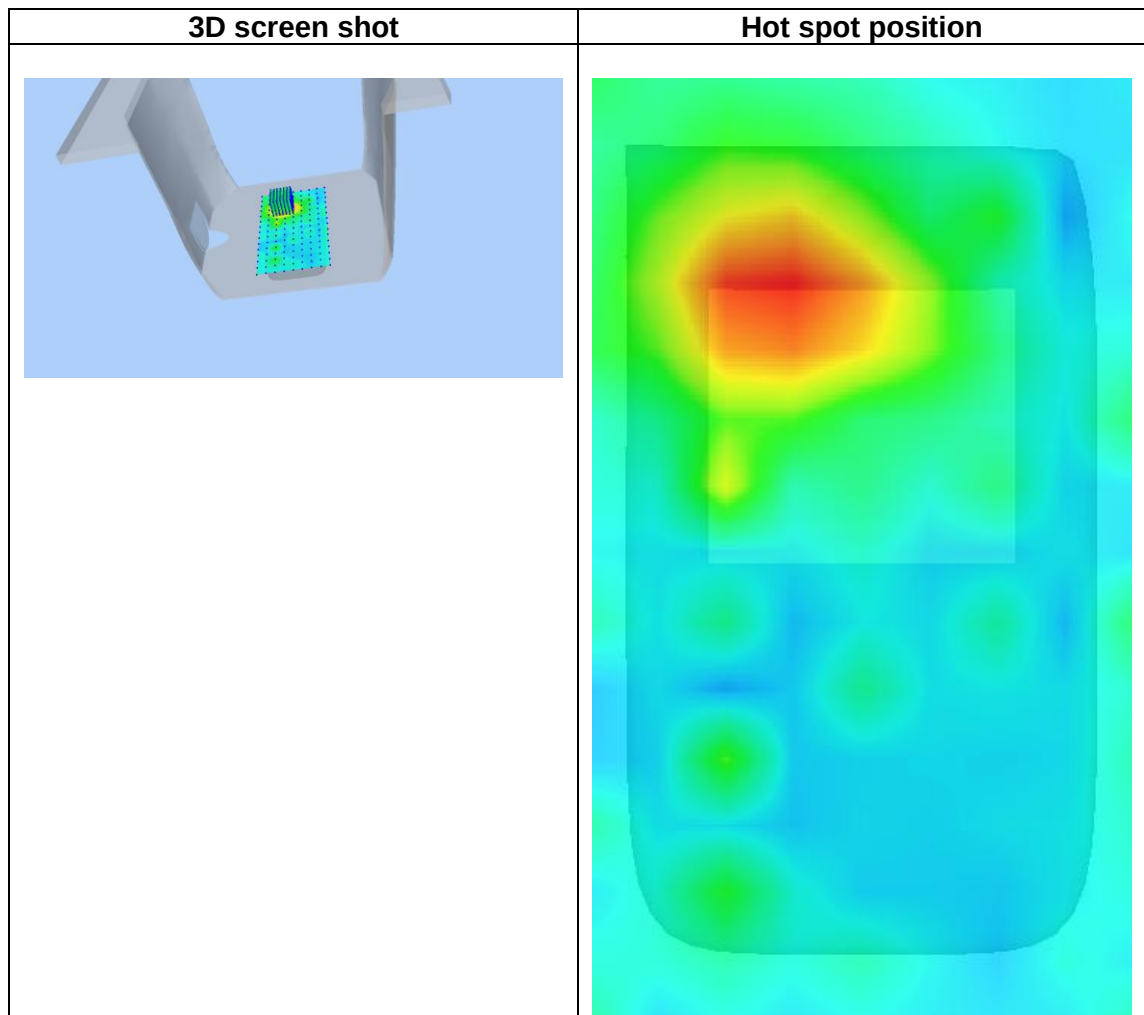
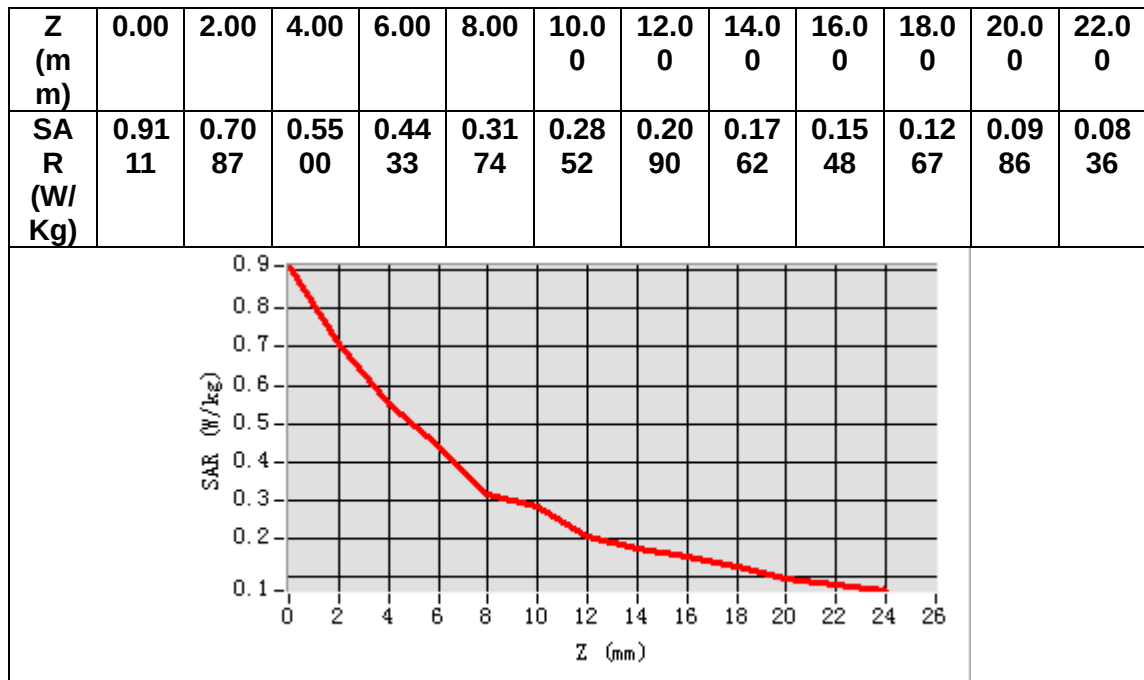
Frequency (MHz)	5200.000000
Relative permittivity (real part)	37.400000
Relative permittivity (imaginary part)	16.129999
Conductivity (S/m)	4.510778
Variation (%)	2.500000



Maximum location: X=-12.00, Y=37.00

SAR Peak: 0.99 W/kg

SAR 10g (W/Kg)	0.255355
SAR 1g (W/Kg)	0.510380



MEASUREMENT 14

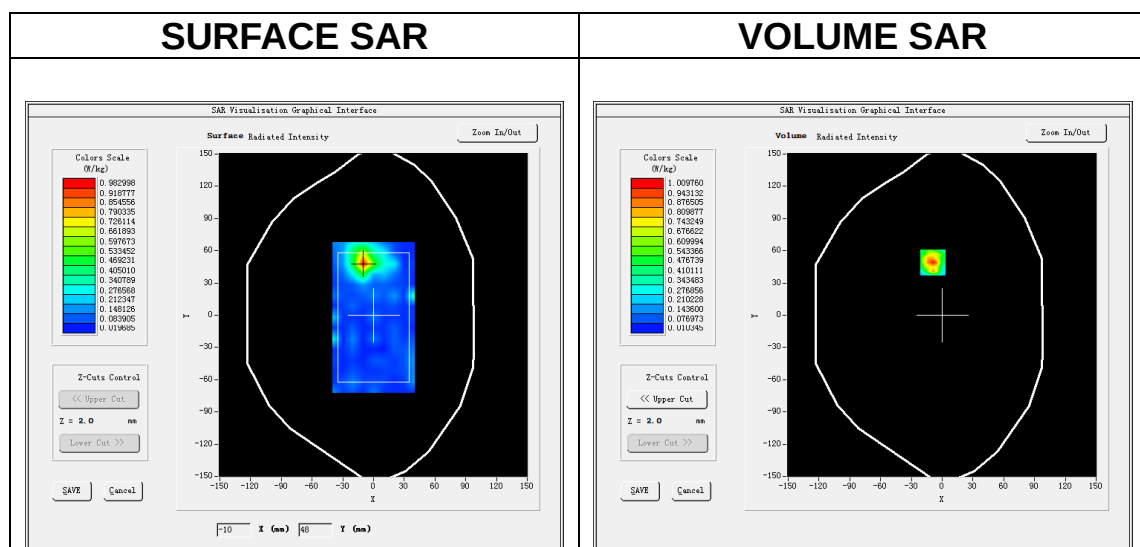
Date of measurement: 14/7/2025

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.a (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.27</u>

B. SAR Measurement Results

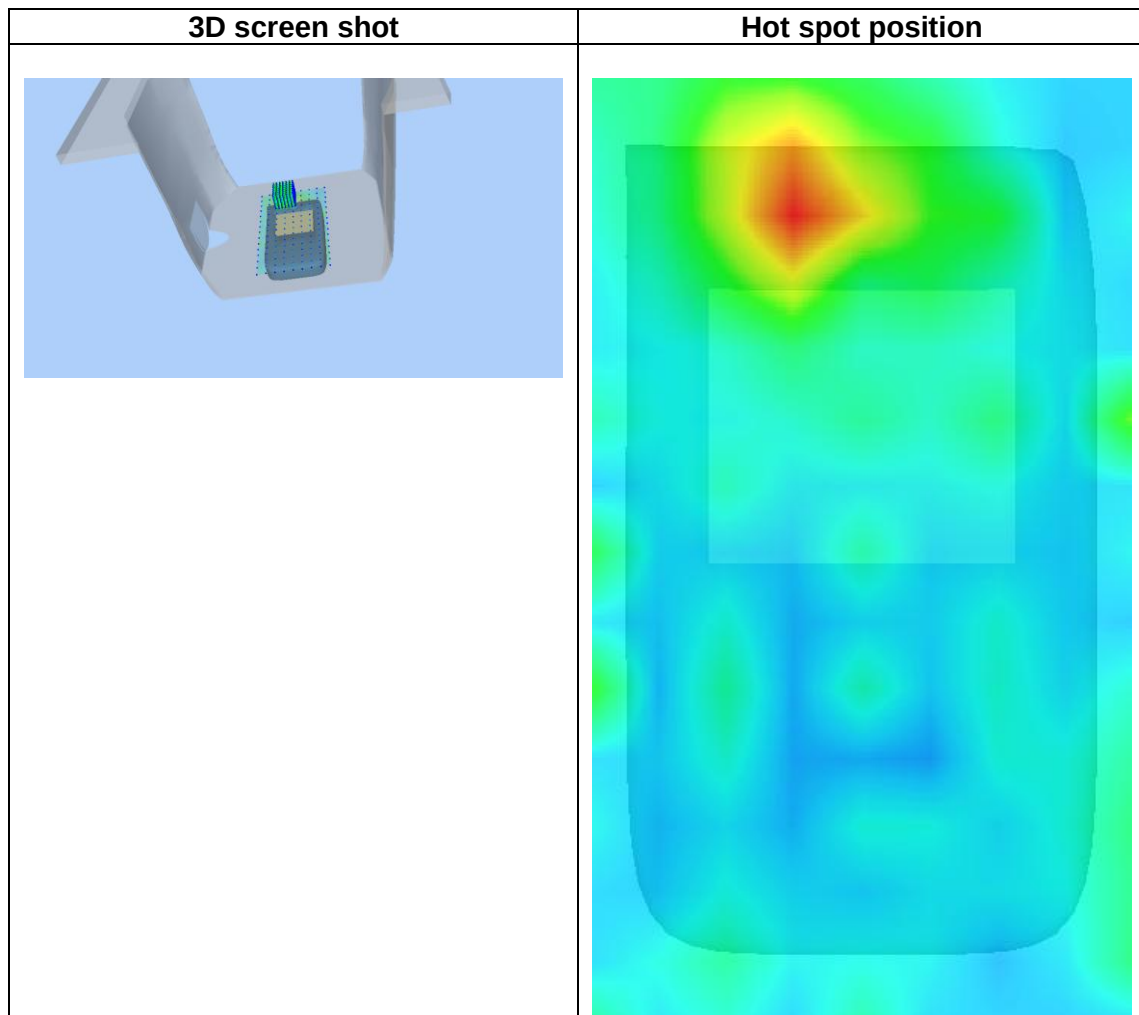
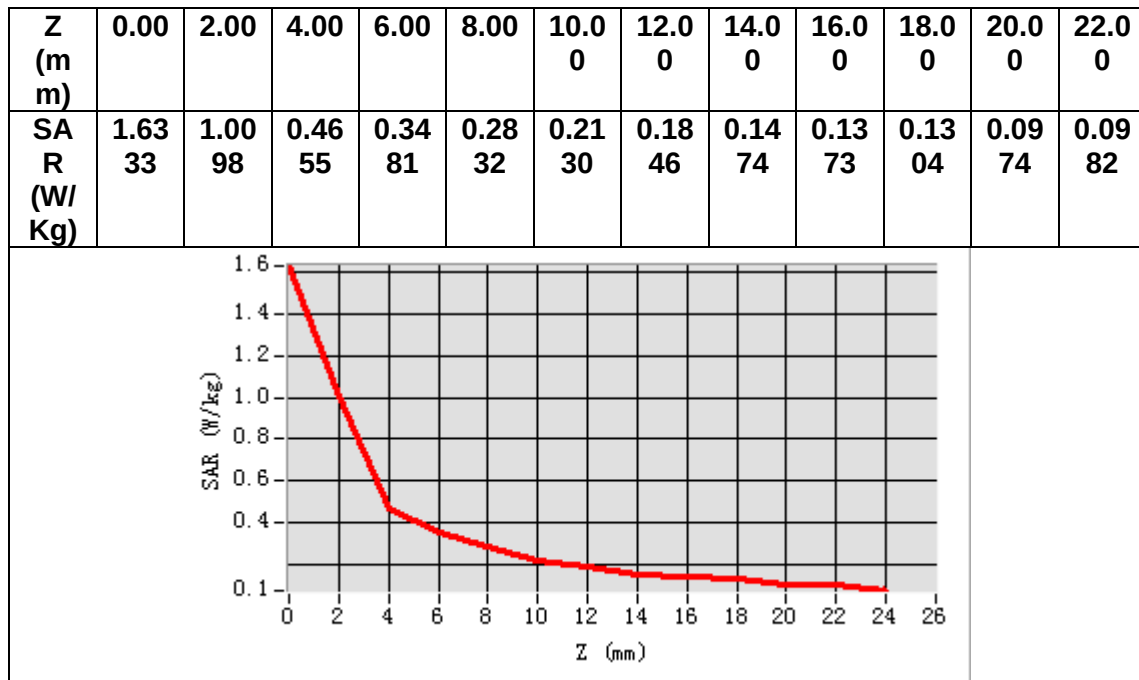
Frequency (MHz)	5785.000000
Relative permittivity (real part)	35.314999
Relative permittivity (imaginary part)	16.355499
Conductivity (S/m)	5.256476
Variation (%)	3.830000



Maximum location: X=-9.00, Y=49.00

SAR Peak: 1.72 W/kg

SAR 10g (W/Kg)	0.263822
SAR 1g (W/Kg)	0.565315



MEASUREMENT 15

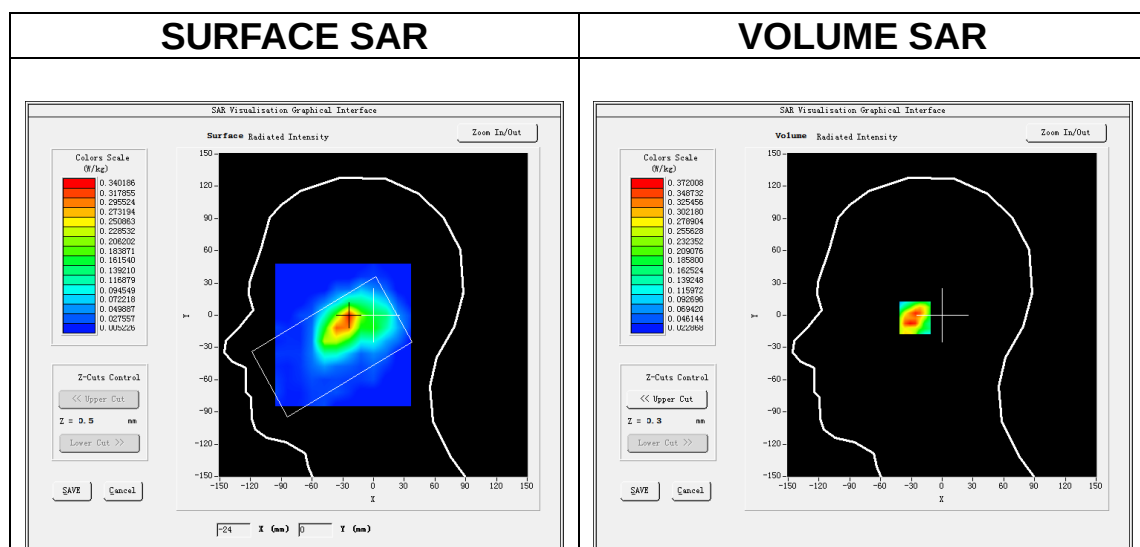
Date of measurement: 8/7/2025

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.b (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.38</u>

B. SAR Measurement Results

Frequency (MHz)	2437.000000
Relative permittivity (real part)	39.226002
Relative permittivity (imaginary part)	13.207000
Conductivity (S/m)	1.788081
Variation (%)	0.850000



Maximum location: X=-24.00, Y=-2.00

SAR Peak: 0.48 W/kg

SAR 10g (W/Kg)	0.204338
SAR 1g (W/Kg)	0.309222