

FCC SAR EVALUATION REPORT

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

Product Name : Smart Phone

Brand Name : OUKITEL

Model Name : S1

Family Model : S1 E, S1 S, S1 Pro, S1 Ultra, S1 TITAN

Report No. : S24060504707001

FCC ID : 2ANMU-S133

Prepared for

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TEST RESULT CERTIFICATION

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Product description

Product name Smart Phone
Brand Name OUKITEL
Model and/or type reference S1
Family Model S1 E, S1 S, S1 Pro, S1 Ultra, S1 TITAN
FCC 47 CFR Part 2(2.1093)

Standards IEEE Std 1528-2013

Published RF exposure KDB procedures

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

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Test Sample Number S240605047007

Date of Test

Date (s) of performance of tests... Jun. 06, 2024 ~ Jun. 24, 2024

Date of Issue Jul. 05, 2024

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

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※ ※ Revision History ※ ※

REV.	DESCRIPTION	ISSUED DATE	REMARK
Rev.1.0	Initial Test Report Release	Jul. 05, 2024	Jack Li

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1. General Information

1.1. RF exposure limits

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

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

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

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

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

Occupational/Controlled Environments:

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

General Population/Uncontrolled Environments:

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

NOTE

HEAD AND TRUNK LIMIT

1.6 W/kg

APPLIED TO THIS EUT

1.2. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for S1 are as follows.

RF Exposure Conditions		Equipment Class -Highest Reported SAR (W/kg)				Max. Reported SAR (W/kg)
		PCE	DTS	NII	DSS	
1-g Head		0.632	0.243	0.302	0.132	0.632
1-g Body-Worn (Separation distance of 10mm)		1.152	0.109	0.140	0.066	1.152
1-g Hotspot (Separation distance of 10mm)		1.152	0.109	0.140	0.066	
Max Simultaneous Tx	Head	N/A	0.875	0.934	0.764	0.934
	Body-Worn	N/A	1.261	1.292	1.218	1.292
	Hotspot	N/A	1.261	1.292	1.218	

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

This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CFR Part 2(2.1093), and had been tested in accordance with the measurement methods and procedures specified in IEEE Std 1528-2013 & KDB 865664 D01.

1.3. EUT Description

Device Information	
Product Name	Smart Phone
Brand Name	OUKITEL
Model Name	S1
Family Model	S1 E, S1 S, S1 Pro, S1 Ultra, S1 TITAN
Model Difference	All the model are the same circuit and RF module, except the model names.
FCC ID	2ANMU-S133
Device Phase	Identical Prototype
Exposure Category	General population / Uncontrolled environment
Antenna Type	FPC Antenna
Battery Information	DC 3.87V, 11000mAh
HW Version	HCT-M511MB-A1
SW Version	V03
Device Operating Configurations	
Supporting Mode(s)	GSM850/1900,WCDMABand2/4/5,LTEBand2/4/5/7/12/17/38/41, WLAN 2.4G/5G, Bluetooth, NFC
Test Modulation	GSM(GMSK/8PSK), WCDMA(QPSK), LTE(QPSK/16QAM), WLAN(DSSS/OFDM), Bluetooth(GFSK, π/4-DQPSK, 8DPSK), NFC(ASK)

Device Class	B		
Operating Frequency Range(s)	Band	Tx (MHz)	Rx (MHz)
	GSM 850	824-849	869-894
	GSM 1900	1850-1910	1930-1990
	WCDMA Band 2	1850-1910	1930-1990
	WCDMA Band 4	1710-1755	2110-2155
	WCDMA Band 5	824-849	869-894
	LTE Band 2	1850-1910	1930-1990
	LTE Band 4	1710-1755	2110-2155
	LTE Band 5	824-849	869-894
	LTE Band 7	2500-2570	2620-2690
	LTE Band 12	699-716	729-746
	LTE Band 17	704-716	734-746
	LTE Band 38	2010-2025	
	LTE Band 41	2496-2690	
	WLAN 2.4G	2412-2462	
	WLAN 5.2G	5180-5240	
	WLAN 5.8G	5745-5825	
	NFC	13.56	
	Bluetooth	2402-2480	
GPRS Multislot Class(12)	Max Number of Timeslots in Uplink		4
	Max Number of Timeslots in Downlink		4
	Max Total Timeslot		5
EGPRS Multislot Class(12)	Max Number of Timeslots in Uplink		4
	Max Number of Timeslots in Downlink		4
	Max Total Timeslot		5
Power Class	4, tested with power level 5(GSM 850)		
	1, tested with power level 0(GSM 1900)		
	3, tested with power control "all 1"(WCDMA Band 2)		
	3, tested with power control "all 1"(WCDMA Band 4)		
	3, tested with power control "all 1"(WCDMA Band 5)		
	3, tested with power control all Max.(LTE Band 2)		
	3, tested with power control all Max.(LTE Band 4)		
	3, tested with power control all Max.(LTE Band 5)		
	3, tested with power control all Max.(LTE Band 7)		
	3, tested with power control all Max.(LTE Band 12)		
	3, tested with power control all Max.(LTE Band 17)		
	3, tested with power control all Max.(LTE Band 38)		
	3, tested with power control all Max.(LTE Band 41)		

1.4. Test specification(s)

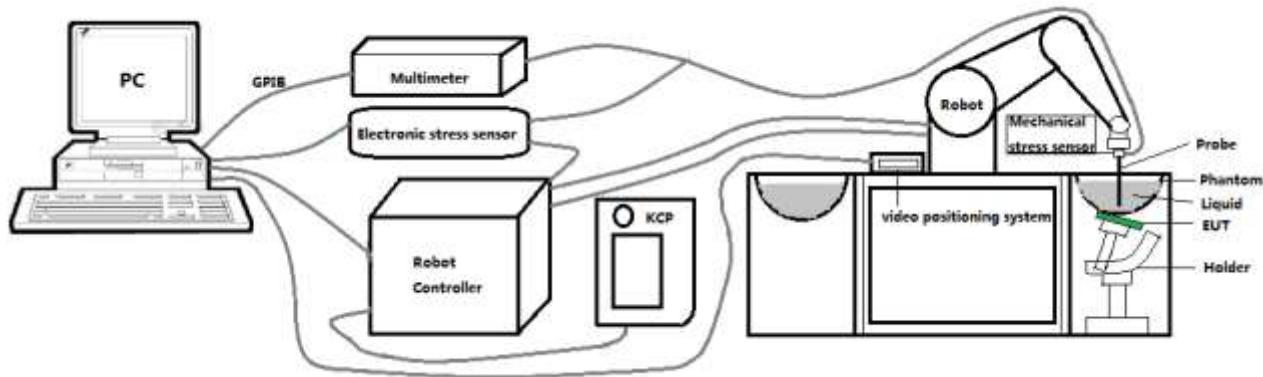
FCC 47 CFR Part 2(2.1093)
IEEE Std 1528-2013
KDB 865664 D01 SAR measurement 100 MHz to 6 GHz
KDB 865664 D02 RF Exposure Reporting
KDB 447498 D01 General RF Exposure Guidance
KDB 248227 D01 802.11 Wi-Fi SAR
KDB 941225 D01 3G SAR Procedures
KDB 941225 D05 SAR for LTE Devices
KDB 941225 D06 Hotspot SAR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

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

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



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

Angle between probe axis (evaluation axis) and surface normal line: less than 30°.

2.3.1. E-Field Probe Calibration

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

2.4. SAM phantoms

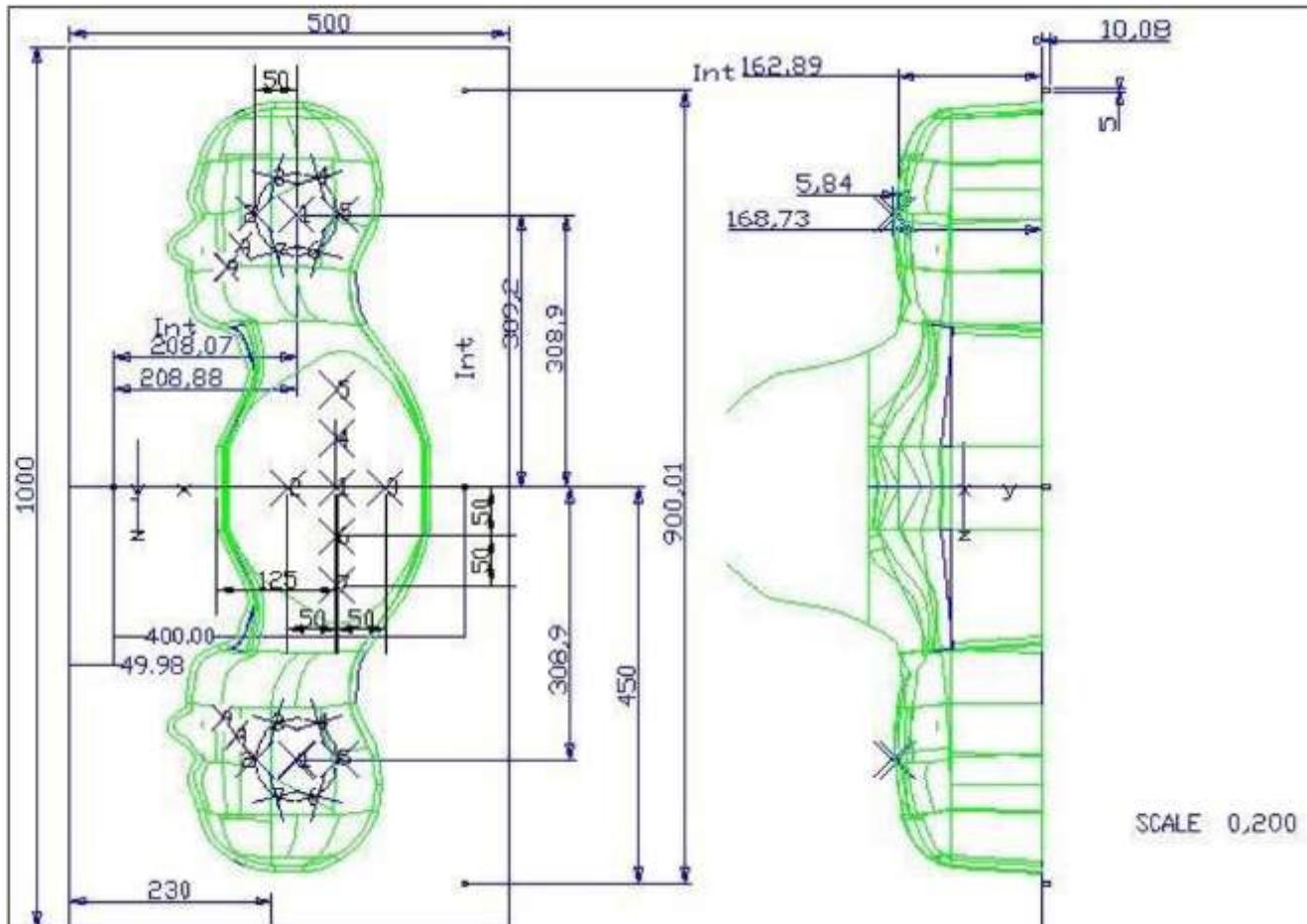
Photo of SAM phantom SN 16/15 SAM119



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

2.4.1. Technical Data

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

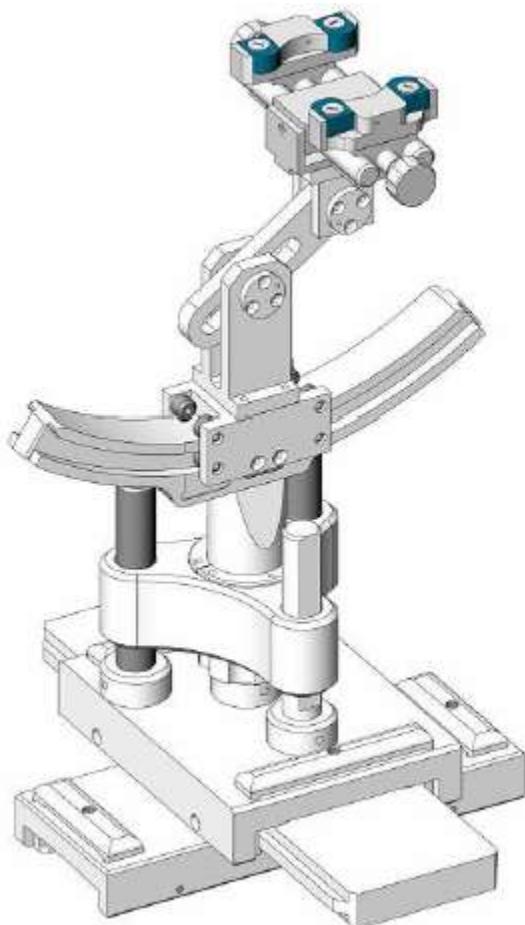


Serial Number	Left Head(mm)		Right Head(mm)		Flat Part(mm)	
SN 16/15 SAM119	2	2.02	2	2.08	1	2.09
	3	2.05	3	2.06	2	2.06
	4	2.07	4	2.07	3	2.08
	5	2.08	5	2.08	4	2.10
	6	2.05	6	2.07	5	2.10
	7	2.05	7	2.05	6	2.07
	8	2.07	8	2.06	7	2.07
	9	2.08	9	2.06	-	-

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

2.5. Device Holder

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



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

2.6. Test Equipment List

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

Devices used during the test described are marked

	Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
					Last Cal.	Due Date
<input checked="" type="checkbox"/>	MVG	E FIELD PROBE	SSE2	3423-EPGO-426	Sep. 18, 2023	Sep. 17, 2024
<input checked="" type="checkbox"/>	MVG	750 MHz Dipole	SID750	SN 03/15 DIP 0G750-355	Feb. 21, 2024	Feb. 20, 2027
<input checked="" type="checkbox"/>	MVG	835 MHz Dipole	SID835	SN 03/15 DIP 0G835-347	Feb. 21, 2024	Feb. 20, 2027
<input type="checkbox"/>	MVG	900 MHz Dipole	SID900	SN 03/15 DIP 0G900-348	Feb. 21, 2024	Feb. 20, 2027
<input checked="" type="checkbox"/>	MVG	1800 MHz Dipole	SID1800	SN 03/15 DIP 1G800-349	Feb. 21, 2024	Feb. 20, 2027
<input checked="" type="checkbox"/>	MVG	1900 MHz Dipole	SID1900	SN 03/15 DIP 1G900-350	Feb. 21, 2024	Feb. 20, 2027
<input type="checkbox"/>	MVG	2000 MHz Dipole	SID2000	SN 03/15 DIP 2G000-351	Feb. 21, 2024	Feb. 20, 2027
<input type="checkbox"/>	MVG	2300 MHz Dipole	SID2300	SN 03/16 DIP 2G300-358	Feb. 21, 2024	Feb. 20, 2027
<input checked="" type="checkbox"/>	MVG	2450 MHz Dipole	SID2450	SN 03/15 DIP 2G450-352	Feb. 21, 2024	Feb. 20, 2027
<input checked="" type="checkbox"/>	MVG	2600 MHz Dipole	SID2600	SN 03/15 DIP 2G600-356	Feb. 21, 2024	Feb. 20, 2027
<input type="checkbox"/>	MVG	3500 MHz Dipole	SID3500	SN 09/12 DIP 3G500-360	Oct. 15, 2022	Oct. 14, 2025
<input type="checkbox"/>	MVG	3700 MHz Dipole	SID3700	SN 09/12 DIP 3G700-361	Oct. 15, 2022	Oct. 14, 2025
<input checked="" type="checkbox"/>	MVG	5000 MHz Dipole	SWG5500	SN 13/14 WGA 33	Feb. 21, 2024	Feb. 20, 2027
<input checked="" type="checkbox"/>	MVG	Liquid measurement Kit	SCLMP	SN 21/15 OCPG 72	NCR	NCR
<input checked="" type="checkbox"/>	MVG	Power Amplifier	N.A	AMPLISAR_28/14_003	NCR	NCR
<input checked="" type="checkbox"/>	KEITHLEY	Millivoltmeter	2000	4072790	NCR	NCR
<input checked="" type="checkbox"/>	R&S	Universal radio communication tester	CMU200	117858	Apr. 26, 2024	Apr. 25, 2025

<input checked="" type="checkbox"/>	R&S	Wideband radio communication tester	CMW500	103917	Apr. 26, 2024	Apr. 25, 2025
<input checked="" type="checkbox"/>	HP	Network Analyzer	8753D	3410J01136	Apr. 26, 2024	Apr. 25, 2025
<input checked="" type="checkbox"/>	Agilent	MXG Vector Signal Generator	N5182A	MY47070317	Apr. 25, 2024	Apr. 24, 2025
<input checked="" type="checkbox"/>	Agilent	Power meter	E4419B	MY45102538	Apr. 25, 2024	Apr. 24, 2025
<input checked="" type="checkbox"/>	Agilent	Power sensor	E9301A	MY41495644	Apr. 25, 2024	Apr. 24, 2025
<input checked="" type="checkbox"/>	Agilent	Power sensor	E9301A	US39212148	Apr. 25, 2024	Apr. 24, 2025
<input checked="" type="checkbox"/>	MCLI/USA	Directional Coupler	CB11-20	0D2L51502	Jul. 04, 2023	Jul. 03, 2024
<input checked="" type="checkbox"/>	N/A	Thermometer	N/A	LES-085	Mar. 27, 2023	Mar. 26, 2026
<input checked="" type="checkbox"/>	MVG	SAM Phantom	SSM2	SN 16/15 SAM119	NCR	NCR
<input checked="" type="checkbox"/>	MVG	Device Holder	SMPPD	SN 16/15 MSH100	NCR	NCR
<input checked="" type="checkbox"/>	Shenzhen Tianxu Communication Technology Co., Ltd.	Human Simulating Liquid	Head 750	Head 750	NCR	NCR
<input checked="" type="checkbox"/>	Shenzhen Tianxu Communication Technology Co., Ltd.	Human Simulating Liquid	Head 835	Head 835	NCR	NCR
<input checked="" type="checkbox"/>	Shenzhen Tianxu Communication Technology Co., Ltd.	Human Simulating Liquid	Head 1800	Head 1800	NCR	NCR
<input checked="" type="checkbox"/>	Shenzhen Tianxu Communication Technology Co., Ltd.	Human Simulating Liquid	Head 1900	Head 1900	NCR	NCR
<input checked="" type="checkbox"/>	Shenzhen	Human	Head 2450	Head 2450	NCR	NCR

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

3. SAR Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

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

<SAR measurement>

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

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

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

3.1. Power Reference

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

3.2. Area scan & Zoom scan

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

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

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

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

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

		≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface		5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location		$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
		≤ 2 GHz: ≤ 15 mm $2 - 3$ GHz: ≤ 12 mm	$3 - 4$ GHz: ≤ 12 mm $4 - 6$ GHz: ≤ 10 mm
Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$		When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be \leq the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$		≤ 2 GHz: ≤ 8 mm $2 - 3$ GHz: ≤ 5 mm*	$3 - 4$ GHz: ≤ 5 mm* $4 - 6$ GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{\text{Zoom}}(n)$	≤ 5 mm	$3 - 4$ GHz: ≤ 4 mm $4 - 5$ GHz: ≤ 3 mm $5 - 6$ GHz: ≤ 2 mm
	graded grid	$\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface $\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	≤ 4 mm $\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$
Minimum zoom scan volume	x, y, z	≥ 30 mm	$3 - 4$ GHz: ≥ 28 mm $4 - 5$ GHz: ≥ 25 mm $5 - 6$ GHz: ≥ 22 mm
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.			
* When zoom scan is required and the <u>reported</u> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.			

3.3. Description of interpolation/extrapolation scheme

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

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

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

3.4. Volumetric Scan

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

3.5. Power Drift

All SAR testing is under the EUT installed 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.

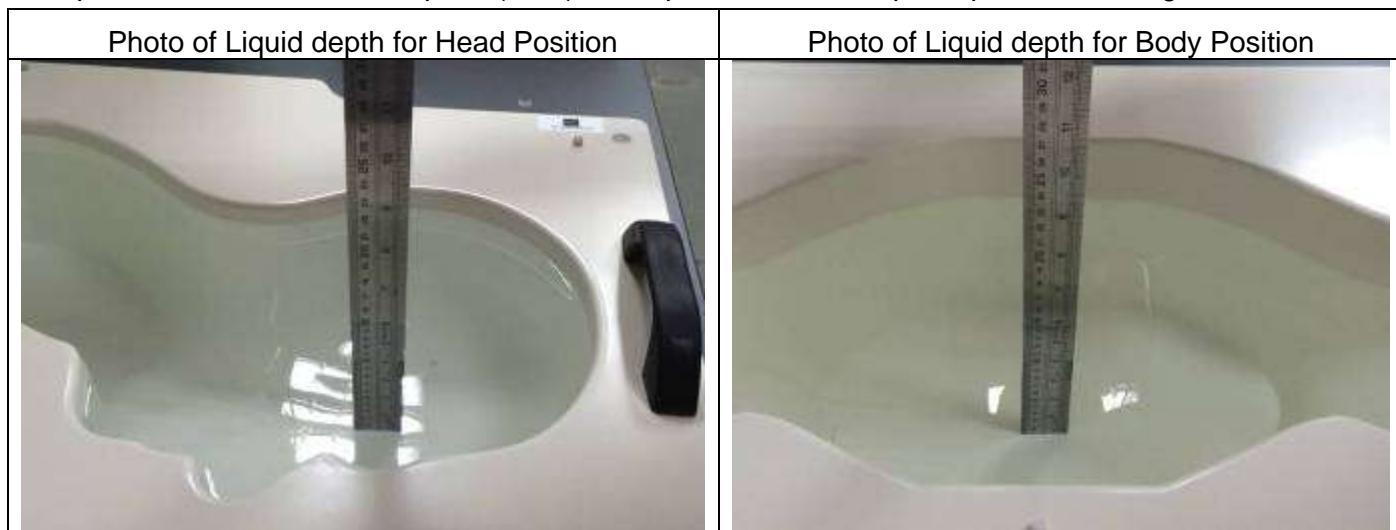
4. System Verification Procedure

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
Water	34.40	34.40	34.40	55.36	55.36	57.87	57.87	57.87	65.53	65.53
NaCl	0.79	0.79	0.79	0.35	0.35	0.16	0.16	0.16	0.00	0.00
1,2-Propanediol	64.81	64.81	64.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Triton X-100	0.00	0.00	0.00	30.45	30.45	19.97	19.97	19.97	24.24	24.24
DGBE	0.00	0.00	0.00	13.84	13.84	22.00	22.00	22.00	10.23	10.23

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



4.1.1. Tissue Dielectric Parameter Check Results

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

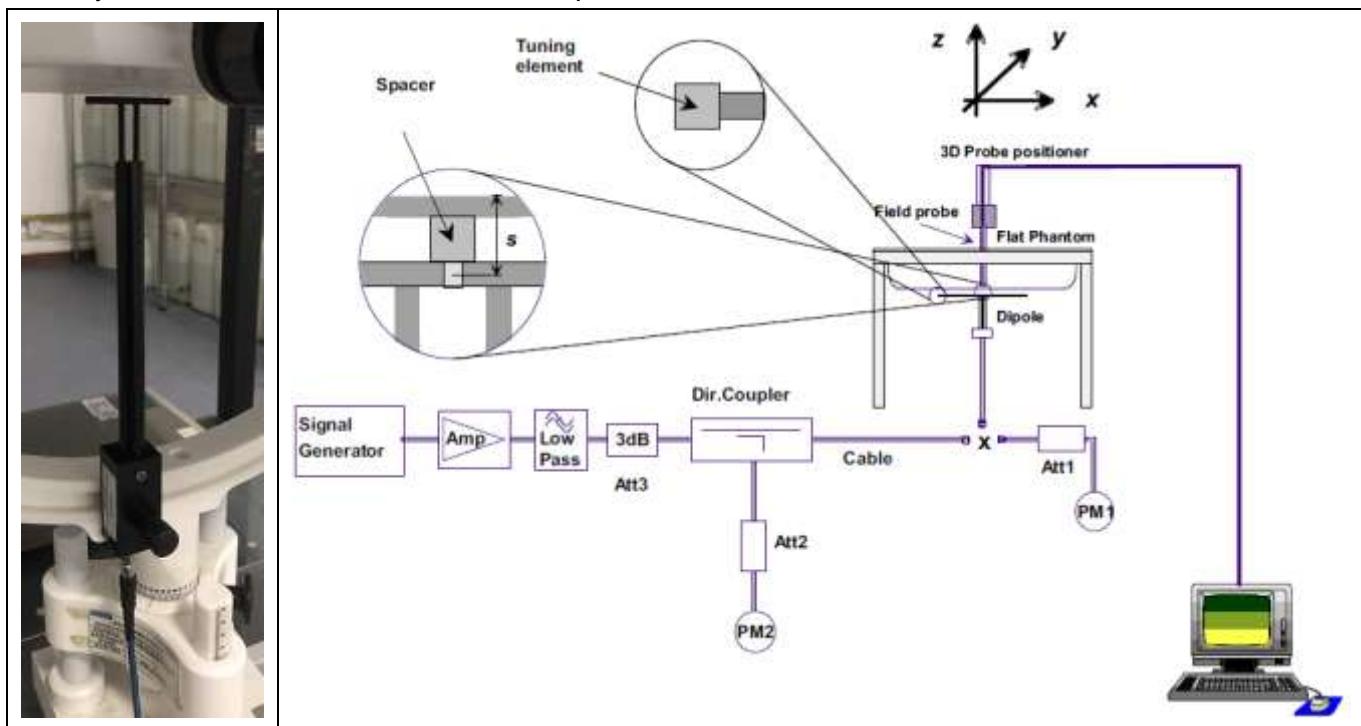
Tissue Type	Measured Frequency (MHz)	Target Tissue		Measured Tissue		Liquid Temp.	Test Date
		ϵ_r (±5%)	σ (S/m) (±5%)	ϵ_r	σ (S/m)		
Head 750	750	41.96 (39.86~44.06)	0.89 (0.85~0.93)	41.02	0.90	21.2 °C	Jun. 20, 2024
Head 850	835	41.50 (39.43~43.58)	0.90 (0.86~0.95)	41.66	0.91	21.0 °C	Jun. 21, 2024
Head 1800	1800	40.00 (38.00~42.00)	1.40 (1.33~1.47)	39.23	1.40	21.2 °C	Jun. 14, 2024
Head 1900	1900	40.00 (38.00~42.00)	1.40 (1.33~1.47)	39.02	1.46	21.5 °C	Jun. 24, 2024
Head 2450	2450	39.20 (37.24~41.16)	1.80 (1.71~1.89)	37.84	1.78	21.5 °C	Jun. 19, 2024
Head 2600	2600	39.01 (37.06~40.96)	1.96 (1.86~2.06)	39.03	2.00	21.8 °C	Jun. 18, 2024
Head 5200	5200	36.00 (34.20~37.80)	4.66 (4.43~4.89)	34.87	4.60	21.7 °C	Jun. 07, 2024
Head 5800	5800	35.30 (33.54~37.07)	5.27 (5.01~5.53)	34.30	5.25	21.3 °C	Jun. 06, 2024

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

4.2. System Verification Procedure

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

The system verification is shown as below picture:



4.2.1. System Verification Results

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

System Verification	Target SAR (1W)		Measured SAR		Liquid Temp.	Test Date		
	$(\pm 10\%)$		(Normalized to 1W)					
	1-g (W/Kg)	10-g (W/Kg)	1-g (W/Kg)	10-g (W/Kg)				
750MHz	8.60 (7.74~9.46)	5.78 (5.20~6.36)	8.46	5.63	21.2 °C	Jun. 20, 2024		
835MHz	9.40 (8.46~10.34)	6.28 (5.65~6.91)	9.29	6.74	21.0 °C	Jun. 21, 2024		
1800MHz	37.06 (33.35~40.77)	20.01 (18.01~22.01)	37.04	20.87	21.2 °C	Jun. 14, 2024		
1900MHz	39.69 (35.72~43.66)	20.92 (18.83~23.01)	43.08	21.43	21.5 °C	Jun. 24, 2024		
2450MHz	50.05 (45.05~55.06)	23.80 (21.42~26.18)	51.44	24.93	21.5 °C	Jun. 19, 2024		
2600MHz	54.16 (48.74~59.58)	24.85 (22.37~27.34)	56.22	24.77	21.8 °C	Jun. 18, 2024		
5200MHz	162.59 (146.33~178.85)	56.21 (50.59~61.83)	177.07	51.49	21.7 °C	Jun. 07, 2024		
5800MHz	182.20 (163.98~200.42)	61.32 (55.19~67.45)	183.51	56.06	21.3 °C	Jun. 06, 2024		

5. SAR Measurement variability and uncertainty

5.1. SAR measurement variability

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

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

5.2. SAR measurement uncertainty

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

6. RF Exposure Positions

6.1. Ear and handset reference point

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

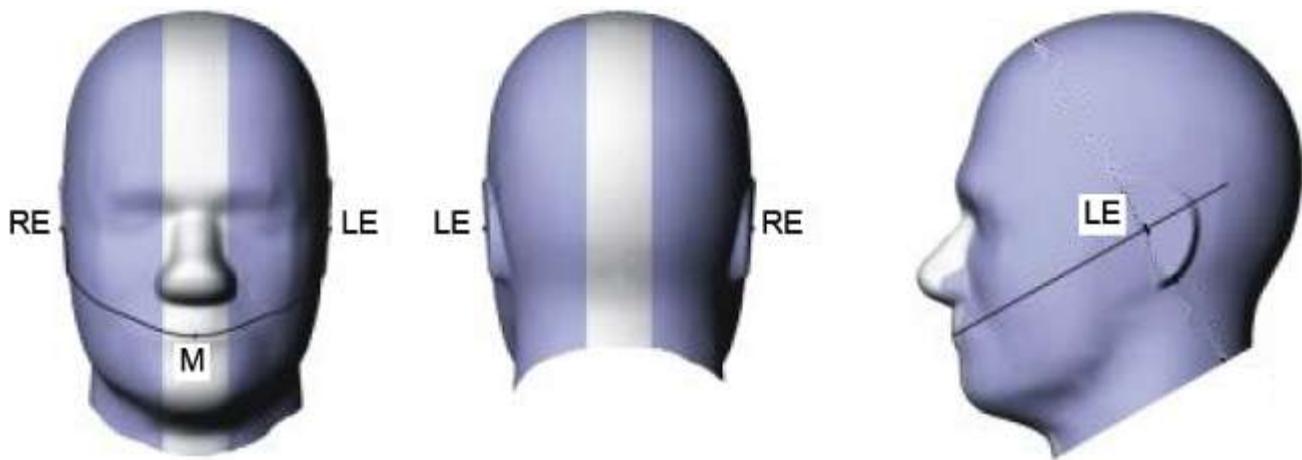


Fig 6.1.1 Front, back, and side views of SAM phantom

6.2. Definition of the cheek position

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

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

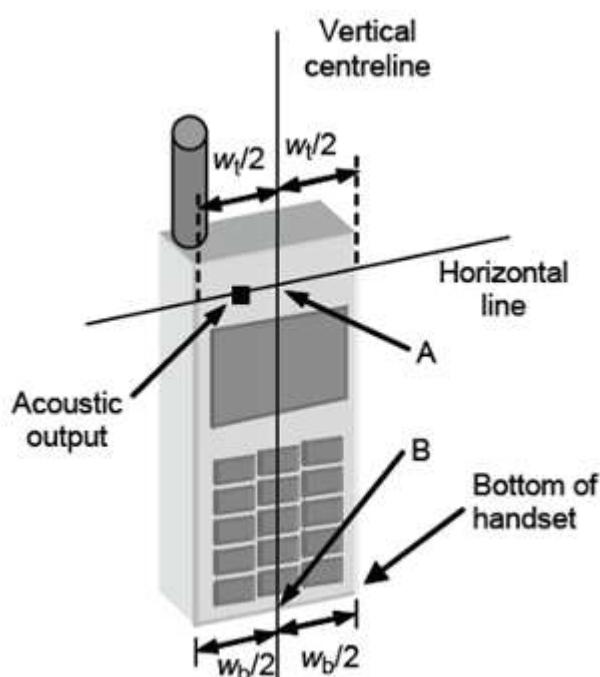


Fig 6.2.1 Handset vertical and horizontal reference lines—"fixed case"

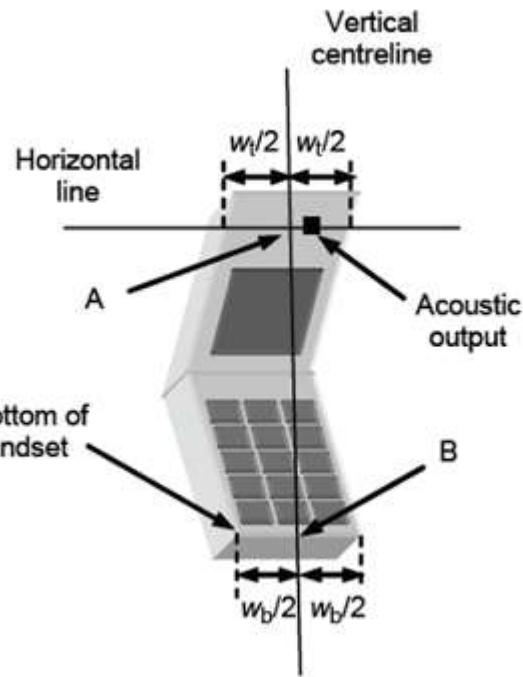


Fig 6.2.2 Handset vertical and horizontal reference lines—"clam-shell case"

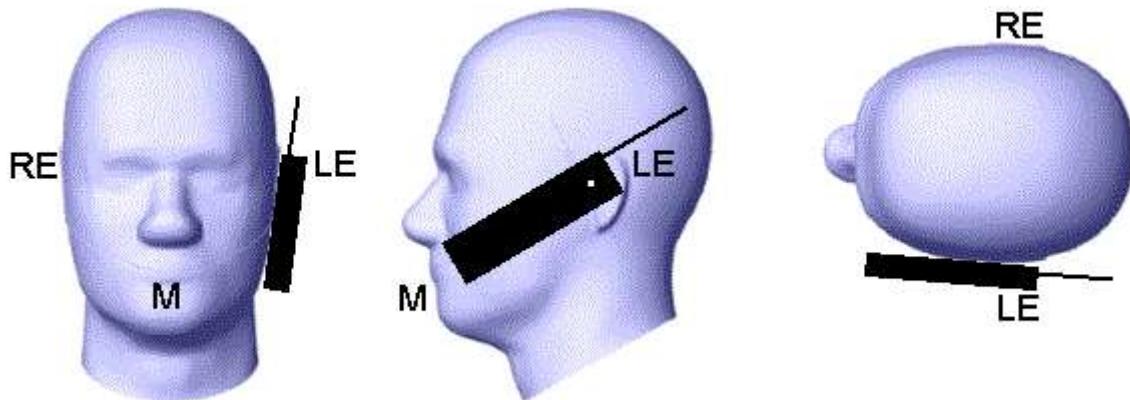


Fig 6.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

6.3. Definition of the tilt position

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



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

6.4. Body Worn Accessory

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

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

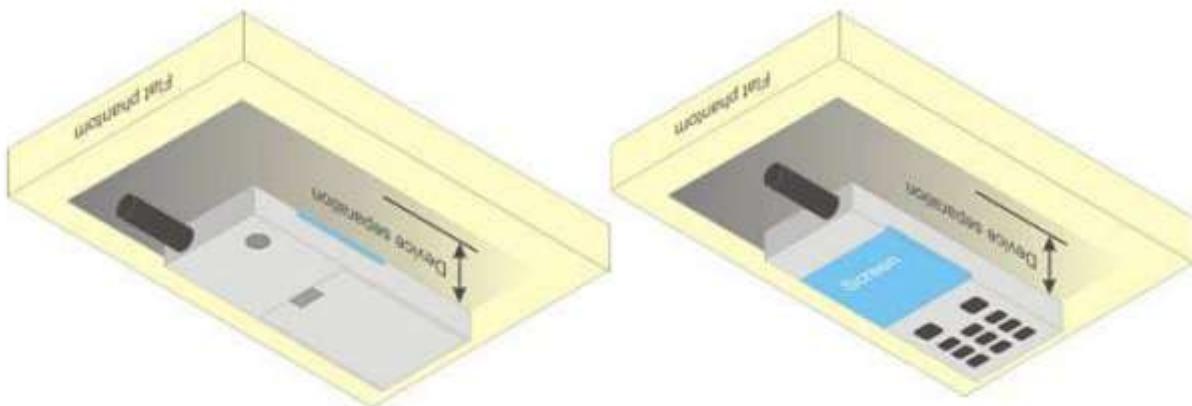


Figure 6.4.1 – Test positions for body-worn devices

6.5. Wireless Router Devices

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

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

7. RF Output Power

7.1. GSM Conducted Power

Band GSM850	Burst-Averaged output Power (dBm)				Frame-Averaged output Power (dBm)			
	Tune-up	128	189	251	Tune-up	128	189	251
Frequency (MHz)	(dBm)	824.2	836.4	848.8	(dBm)	824.2	836.4	848.8
GSM (GMSK)		33.00	32.62	32.79		23.97	23.59	23.76
GPRS(GMSK,1 Tx slot)	33.00	32.64	32.83	32.85	23.97	23.61	23.80	23.82
GPRS(GMSK,2 Tx slot)	32.50	32.06	32.18	32.26	26.48	26.04	26.16	26.24
GPRS(GMSK,3 Tx slot)	31.00	30.52	30.58	30.65	26.74	26.26	26.32	26.39
GPRS(GMSK,4 Tx slot)	30.00	29.46	29.52	29.91	26.99	26.45	26.51	26.90
EGPRS(8PSK,1 Tx slot)	28.00	27.53	27.45	27.88	18.97	18.50	18.42	18.85
EGPRS(8PSK,2 Tx slot)	27.00	26.83	26.42	26.42	20.98	20.81	20.40	20.40
EGPRS(8PSK,3 Tx slot)	25.00	24.85	24.52	24.01	20.74	20.59	20.26	19.75
EGPRS(8PSK,4 Tx slot)	24.00	23.55	23.42	23.46	20.99	20.54	20.41	20.45
Band GSM1900	Burst-Averaged output Power (dBm)				Frame-Averaged output Power (dBm)			
Tx Channel	(dBm)	512	661	810	(dBm)	512	661	810
Frequency (MHz)		1850.2	1880	1909.8		1850.2	1880	1909.8
GSM (GMSK)	29.50	29.27	29.45	29.45	20.47	20.24	20.42	20.42
GPRS(GMSK,1 Tx slot)	29.50	29.24	29.45	29.43	20.47	20.21	20.42	20.40
GPRS(GMSK,2 Tx slot)	29.00	28.48	28.69	28.75	22.98	22.46	22.67	22.73
GPRS(GMSK,3 Tx slot)	27.50	26.71	26.93	27.04	23.24	22.45	22.67	22.78
GPRS(GMSK,4 Tx slot)	26.00	25.62	25.86	25.99	22.99	22.61	22.85	22.98
EGPRS(8PSK,1 Tx slot)	26.50	26.27	26.25	25.97	17.47	17.24	17.22	16.94
EGPRS(8PSK,2 Tx slot)	25.50	25.15	25.21	25.02	19.48	19.13	19.19	19.00
EGPRS(8PSK,3 Tx slot)	24.00	23.50	23.12	22.96	19.74	19.24	18.86	18.70
EGPRS(8PSK,4 Tx slot)	22.00	21.77	21.87	21.79	18.99	18.76	18.86	18.78

7.2. WCDMA Conducted Power

WCDMA Band 2		Burst-Averaged output Power (dBm)		
Tx Channel		Tune-up	9262	9400
			1852.4	1880
Frequency (MHz)			1907.6	
RMC12.2K		23.50	23.37	23.50
HSDPA Sub 1		23.00	22.59	22.77
HSDPA Sub 2		22.50	22.03	22.25
				22.08

HSDPA Sub 3	21.50	21.09	21.33	21.12
HSDPA Sub 4	21.50	20.80	20.83	21.34
HSUPA Sub 1	23.00	21.91	22.54	22.69
HSUPA Sub 2	23.00	22.41	22.62	22.83
HSUPA Sub 3	21.50	20.62	21.49	21.49
HSUPA Sub 4	23.00	22.50	22.72	22.87
HSUPA Sub 5	22.50	21.10	22.18	22.16
WCDMA Band 4	Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	1312	1413	1513
Frequency (MHz)		1712.4	1732.6	1752.6
RMC12.2K	23.00	22.97	22.99	22.98
HSDPA Sub 1	22.50	22.16	22.17	22.18
HSDPA Sub 2	22.00	21.49	21.65	21.79
HSDPA Sub 3	21.00	20.15	20.07	20.52
HSDPA Sub 4	21.00	20.51	20.58	20.99
HSUPA Sub 1	22.00	20.91	21.89	21.95
HSUPA Sub 2	22.50	21.95	21.95	22.01
HSUPA Sub 3	21.00	20.28	20.93	20.53
HSUPA Sub 4	22.50	22.11	22.14	22.17
HSUPA Sub 5	21.50	20.64	21.48	21.28
WCDMA Band 5	Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	4132	4182	4233
Frequency (MHz)		826.4	836.4	846.6
RMC12.2K	24.00	23.89	23.57	23.51
HSDPA Sub 1	23.00	22.87	22.53	22.48
HSDPA Sub 2	22.50	22.25	21.92	22.11
HSDPA Sub 3	21.50	21.42	21.17	21.17
HSDPA Sub 4	21.50	21.07	20.73	20.59
HSUPA Sub 1	22.50	22.12	22.31	22.29
HSUPA Sub 2	23.00	22.83	22.49	22.34
HSUPA Sub 3	22.00	21.08	21.63	21.22
HSUPA Sub 4	23.00	22.87	22.52	22.48
HSUPA Sub 5	22.00	21.14	21.96	21.68

7.3. LTE Conducted Power

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18607/1850.7	18900/1880	19193/1909.3
LTE Band 2	1.4MHz	QPSK	1	0	23.50	22.95	22.79	23.04
			1	2	23.50	23.09	22.31	23.19
			1	5	23.50	22.95	22.78	23.04
			3	0	23.50	23.07	22.57	23.13
			3	1	23.50	23.09	22.84	23.15
			3	2	23.50	23.07	22.84	23.13
			6	0	22.50	22.09	21.86	22.15
		16QAM	1	0	22.50	20.99	22.16	22.37
			1	2	22.50	22.36	22.16	22.47
			1	5	22.50	22.09	22.01	22.26
			3	0	22.50	21.98	21.89	22.19
			3	1	22.50	22.02	21.93	22.18
			3	2	22.50	22.03	21.92	22.09
			6	0	22.00	21.16	21.97	21.26
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	23.50	22.99	22.82	23.06
			1	7	23.50	22.94	22.82	23.08
			1	14	23.50	22.96	21.69	23.11
			8	0	22.50	21.99	21.83	22.06
			8	4	22.50	22.01	21.86	22.14
			8	7	22.50	21.97	21.84	22.10
			15	0	22.50	22.00	21.83	22.13
		16QAM	1	0	22.50	22.29	22.04	22.40
			1	7	22.50	22.42	22.18	22.29
			1	14	22.50	22.25	22.09	22.41
			8	0	22.00	21.07	20.94	21.58
			8	4	22.00	21.10	20.96	21.23
			8	7	22.00	21.01	20.91	21.19
			15	0	21.50	21.02	20.86	21.15
Band	Band	Modulation	RB		Tune-up	Channel/Frequency(MHz)		

	Width		Configuration		(dBm)			
			RB Size	RB Offset		18625/1852.5	18900/1880	19175/1907.5
LTE Band 2	5MHz	QPSK	1	0	23.50	22.90	22.74	22.88
			1	12	23.50	22.96	22.83	23.03
			1	24	23.50	22.85	22.71	23.01
			12	0	22.50	21.74	21.80	21.99
			12	6	22.50	22.01	21.86	21.02
			12	11	22.50	21.98	21.83	22.10
			25	0	22.50	21.98	21.84	22.06
		16QAM	1	0	22.50	22.15	21.99	22.17
			1	12	22.50	22.18	22.13	22.34
			1	24	22.50	22.07	21.75	22.32
			12	0	21.50	20.97	20.80	20.99
			12	6	21.50	21.01	20.90	21.16
			12	11	21.50	20.96	20.85	21.12
			25	0	21.50	20.98	20.87	21.09
LTE Band 2	10MHz	QPSK	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18650/1855	18900/1880	19150/1905
			1	0	23.50	22.99	22.83	22.96
			1	24	23.50	23.00	22.32	23.04
			1	49	23.50	22.84	22.76	23.10
			25	0	22.50	22.23	21.81	21.96
			25	12	22.50	22.00	21.35	22.04
		16QAM	25	24	22.50	21.90	21.89	22.16
			50	0	23.00	22.02	21.87	22.66
			1	0	22.50	22.29	22.17	22.32
			1	24	22.50	22.24	22.09	22.36
			1	49	22.50	21.97	22.13	22.46
			25	0	21.50	20.05	20.87	21.03
			25	12	21.50	20.99	20.89	21.09
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18675/1857.5	18900/1880	19125/1902.5
			1	0	23.00	22.89	22.71	22.77

Band 2		16QAM	1	37	23.00	22.84	22.35	22.98
			1	74	23.00	22.63	22.69	21.45
			36	0	22.50	21.24	21.79	21.99
			36	18	22.50	21.91	21.87	22.02
			36	37	22.50	21.79	21.84	21.27
			75	0	22.50	21.90	21.81	22.06
			1	0	22.50	22.17	22.01	22.14
			1	37	22.50	22.10	22.10	22.22
			1	74	22.50	22.03	21.94	22.34
			36	0	21.50	20.97	20.78	20.98
			36	18	21.50	20.87	20.85	21.01
			36	37	21.50	20.76	20.81	21.13
			75	0	21.50	20.89	20.83	21.07
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18700/1860	18900/1880	19100/1900
LTE Band 2	20MHz	QPSK	1	0	23.50	22.84	22.61	22.70
			1	49	23.50	22.86	22.88	23.02
			1	99	23.50	22.58	22.53	22.95
			50	0	22.50	21.99	21.71	22.12
			50	24	22.50	21.87	21.86	22.01
			50	49	22.50	21.66	21.50	22.15
			100	0	22.50	21.84	21.72	22.13
		16QAM	1	0	22.50	22.09	21.90	22.03
			1	49	22.50	21.12	22.23	22.33
			1	99	22.50	21.94	21.44	22.14
			50	0	21.50	20.97	20.71	21.12
			50	24	21.50	20.86	20.86	21.01
			50	49	21.50	20.69	20.84	21.15
			100	0	21.50	20.84	20.76	21.13

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		19957/1710.7	20175/1732.5	20393/1754.3
LTE Band 4	1.4MHz	QPSK	1	0	23.50	23.29	22.92	22.83
			1	2	23.50	23.39	23.04	22.95
			1	5	23.50	23.27	22.91	22.84
			3	0	23.50	23.36	23.01	22.96

			3	1	23.50	23.39	23.04	22.99
			3	2	23.50	23.37	23.03	22.93
			6	0	22.50	22.36	22.01	21.98
		16QAM	1	0	23.00	22.50	22.14	22.13
			1	2	23.00	22.70	22.38	22.17
			1	5	23.00	22.59	22.15	22.18
			3	0	22.50	22.26	22.02	21.97
			3	1	22.50	22.37	22.02	21.92
			3	2	22.50	22.29	22.01	21.96
			6	0	22.00	21.50	21.18	21.10
			RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
LTE Band 4	3MHz	QPSK	RB Size	RB Offset		19965/1711.5	20175/1732.5	20385/1753.5
			1	0	23.50	23.36	23.04	22.92
			1	7	23.50	23.39	23.02	22.96
			1	14	23.50	23.34	23.01	22.97
			8	0	22.50	22.36	22.05	22.02
			8	4	22.50	22.39	22.09	22.05
			8	7	22.50	22.36	22.05	22.01
		16QAM	15	0	22.50	22.37	22.06	22.02
			1	0	23.00	22.66	22.40	22.22
			1	7	23.00	22.69	22.23	22.24
			1	14	23.00	22.61	22.20	22.25
			8	0	22.00	21.48	21.17	21.13
			8	4	22.00	21.53	21.21	21.15
			8	7	22.00	21.47	21.15	21.12
			15	0	21.50	21.43	21.12	21.05
LTE Band 4	5MHz	QPSK	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		19975/1712.5	20175/1732.5	20375/1752.5
			1	0	23.50	23.23	22.95	22.85
			1	12	23.50	23.39	23.02	23.00
			1	24	23.50	23.24	22.92	22.86
			12	0	22.50	22.38	21.99	22.03
			12	6	22.50	22.40	22.11	22.06
		16QAM	12	11	22.50	22.36	22.09	22.00
			25	0	22.50	22.35	22.06	22.02
			1	0	23.00	22.47	22.22	22.02

			1	12	23.00	22.67	22.27	22.18
			1	24	23.00	22.49	22.12	22.02
			12	0	21.50	21.42	21.02	21.03
			12	6	21.50	21.43	21.17	21.11
			12	11	21.50	21.41	21.15	21.01
			25	0	21.50	21.40	21.12	21.09
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	23.50	23.33	23.06	22.96
			1	24	23.50	23.45	23.12	23.08
			1	49	23.50	23.21	22.98	22.93
			25	0	22.50	22.41	22.02	22.14
			25	12	22.50	22.41	22.12	22.08
			25	24	22.50	22.39	22.18	22.03
			50	0	22.50	22.43	22.11	22.12
		16QAM	1	0	23.00	22.56	22.32	22.14
			1	24	23.00	22.75	22.38	22.27
			1	49	23.00	22.52	22.19	22.24
			25	0	21.50	21.47	21.12	21.17
			25	12	21.50	21.48	21.16	21.13
			25	24	21.50	21.45	21.22	21.08
			50	0	21.50	21.47	21.18	21.14
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20025/1717.5	20175/1732.5	20325/1747.5
LTE Band 4	15MHz	QPSK	1	0	23.50	23.28	22.97	22.94
			1	37	23.50	23.29	23.04	23.02
			1	74	23.50	23.07	22.95	22.90
			36	0	22.50	22.39	22.01	22.10
			36	18	22.50	22.35	22.10	22.11
			36	37	22.50	22.29	22.15	21.99
			75	0	22.50	22.33	22.08	22.08
		16QAM	1	0	23.00	22.45	22.28	22.20
			1	37	23.00	22.51	22.35	22.29
			1	74	23.00	22.35	22.22	22.11
			36	0	21.50	21.42	21.03	21.11
			36	18	21.50	21.40	21.13	21.12

			36	37	21.50	21.34	21.16	21.03
			75	0	21.50	21.39	21.13	21.08
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20050/1720	20175/1732.5	20300/1745
LTE Band 4	20MHz	QPSK	1	0	23.50	23.16	22.99	22.85
			1	49	23.50	23.34	23.09	23.11
			1	99	23.50	22.92	22.88	22.80
			50	0	22.50	22.33	21.95	22.08
			50	24	22.50	22.29	22.12	22.13
			50	49	22.50	22.23	22.16	21.98
			100	0	22.50	22.29	22.06	22.02
		16QAM	1	0	23.00	22.37	22.31	22.14
			1	49	23.00	22.60	22.33	22.36
			1	99	23.00	22.28	22.11	22.03
			50	0	21.50	21.40	20.99	21.09
			50	24	21.50	21.34	21.16	21.17
			50	49	21.50	21.31	21.20	21.00
			100	0	21.50	21.32	21.09	21.05

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20407/824.7	20525/836.5	20643/848.3
LTE Band 5	1.4MHz	QPSK	1	0	23.50	22.78	23.18	22.90
			1	2	23.50	22.96	23.29	23.03
			1	5	23.50	22.86	23.14	22.91
			3	0	23.50	22.85	23.24	23.02
			3	1	23.50	22.89	23.27	23.02
			3	2	23.50	22.89	23.25	22.99
			6	0	22.50	21.83	22.25	22.00
		16QAM	1	0	23.00	22.08	22.36	22.19
			1	2	23.00	22.25	22.52	22.27
			1	5	23.00	22.15	22.41	22.20
			3	0	22.50	21.85	22.19	21.93
			3	1	22.50	21.93	22.25	21.98
			3	2	22.50	21.87	22.21	21.92
			6	0	21.50	20.92	21.34	21.08
Band	Band	Modulation	RB		Tune-up	Channel/Frequency(MHz)		

	Width		Configuration		(dBm)			
			RB Size	RB Offset		20415/825.5	20525/836.5	20635/847.5
LTE Band 5	3MHz	QPSK	1	0	23.50	22.85	23.32	23.07
			1	7	23.50	22.94	23.26	23.01
			1	14	23.50	23.05	23.27	23.01
			8	0	22.50	21.90	22.26	22.04
			8	4	22.50	21.95	22.33	22.09
			8	7	22.50	21.95	22.28	22.04
			15	0	22.50	21.89	22.31	22.06
		16QAM	1	0	23.00	22.20	22.60	22.34
			1	7	23.00	22.16	22.48	22.22
			1	14	23.00	22.33	22.46	22.27
			8	0	21.50	20.97	21.32	21.08
			8	4	21.50	21.01	21.38	21.15
			8	7	21.50	21.02	21.35	21.07
			15	0	21.50	20.90	21.28	21.05
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20425/826.5	20525/836.5	20625/846.5
LTE Band 5	5MHz	QPSK	1	0	23.50	22.77	23.19	23.07
			1	12	23.50	23.06	23.24	23.05
			1	24	23.50	23.03	23.15	22.91
			12	0	22.50	22.00	22.26	22.08
			12	6	22.50	22.04	22.37	22.10
			12	11	22.50	22.03	22.26	21.99
			25	0	22.50	22.02	22.28	22.01
		16QAM	1	0	23.00	22.04	22.50	22.41
			1	12	23.00	22.23	22.45	22.40
			1	24	23.00	22.32	22.34	22.21
			12	0	21.50	20.96	21.20	21.06
			12	6	21.50	21.02	21.31	21.09
			12	11	21.50	21.03	21.22	20.98
			25	0	21.50	21.01	21.29	21.02
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20450/829	20525/836.5	20600/844
LTE	10MHz	QPSK	1	0	23.50	22.90	23.27	23.28

Band 5			1	24	23.50	23.19	23.34	23.25
			1	49	23.50	23.29	23.19	22.97
			25	0	22.50	22.15	22.25	22.33
			25	12	22.50	22.17	22.35	22.20
			25	24	22.50	22.36	22.24	22.13
			50	0	22.50	22.29	22.24	22.25
		16QAM	1	0	23.00	22.16	22.56	22.60
			1	24	23.00	22.59	22.55	22.47
			1	49	23.00	22.55	22.45	22.20
			25	0	21.50	21.16	21.24	21.33
			25	12	21.50	21.17	21.34	21.20
			25	24	21.50	21.37	21.26	21.14
			50	0	21.50	21.28	21.24	21.25

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	12.00	10.31	10.51	10.34
			1	12	12.00	11.11	10.67	10.35
			1	24	12.00	11.67	10.32	10.89
			12	0	11.00	10.68	10.43	10.24
			12	6	11.00	10.54	10.57	10.35
			12	11	11.00	10.48	10.77	10.52
			25	0	11.00	10.36	10.54	10.36
		16QAM	1	0	11.50	10.29	10.46	10.38
			1	12	11.50	10.28	10.77	10.60
			1	24	11.50	10.19	10.10	11.11
			12	0	11.00	9.16	10.44	10.26
			12	6	11.00	9.29	10.62	10.38
			12	11	11.00	9.35	10.76	10.62
			25	0	10.50	9.30	8.62	10.45
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	12.00	10.36	10.66	11.59
			1	24	12.00	11.54	10.53	10.28
			1	49	12.00	11.69	11.59	10.91
			25	0	11.50	10.40	10.36	10.85

			25	12	11.50	10.66	10.56	10.39
			25	24	11.50	10.89	11.02	10.35
			50	0	11.00	10.67	10.70	10.62
		16QAM	1	0	12.00	10.52	10.48	11.73
			1	24	12.00	10.42	10.71	10.46
			1	49	12.00	10.57	11.69	11.18
			25	0	11.00	9.28	10.37	10.85
			25	12	11.00	9.47	10.60	10.44
			25	24	11.00	9.74	10.04	10.47
			50	0	11.00	9.55	10.69	10.68
			RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
LTE Band 7	15MHz	Modulation	RB Size	RB Offset		20825/2507.5	21100/2535	21375/2562.5
			1	0	12.00	10.50	10.72	10.97
			1	37	12.00	11.71	10.65	10.77
			1	74	12.00	11.75	10.49	10.88
			36	0	12.00	11.68	10.42	10.98
			36	18	12.00	10.78	10.67	10.99
			36	37	12.00	10.89	11.42	10.48
			75	0	11.50	10.72	10.88	11.45
		Modulation	1	0	11.50	10.32	10.58	11.11
			1	37	11.50	10.59	10.75	10.98
			1	74	11.50	10.74	10.57	11.14
			36	0	11.00	9.30	10.38	10.08
			36	18	11.00	9.58	10.66	10.01
			36	37	11.00	9.67	10.40	10.56
			75	0	11.50	9.54	10.88	11.44
			RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
LTE Band 7	20MHz	Modulation	RB Size	RB Offset		20850/2510	21100/2535	21350/2560
			1	0	12.00	10.45	10.79	11.59
			1	49	12.00	11.90	10.60	11.39
			1	99	12.00	10.36	10.32	10.63
			50	0	12.00	11.71	10.37	11.05
			50	24	12.00	10.96	10.65	11.77
			50	49	12.00	10.77	11.66	10.63
			100	0	12.50	10.57	11.02	12.17
		16QAM	1	0	12.00	10.33	10.65	11.48

			1	49	12.00	10.70	10.66	11.60
			1	99	12.00	10.60	10.35	10.99
			50	0	12.00	10.49	10.34	10.90
			50	24	12.00	10.71	10.68	11.79
			50	49	12.00	10.60	11.72	10.73
			100	0	11.00	9.39	11.00	10.14

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23017/699.7	23095/707.5	23173/715.3
LTE Band 12	1.4MHz	QPSK	1	0	23.50	23.25	22.41	22.41
			1	2	23.50	23.32	22.54	22.58
			1	5	23.50	23.13	22.42	22.45
			3	0	23.50	23.16	22.52	22.54
			3	1	23.50	22.90	22.53	22.58
			3	2	23.50	22.89	22.54	22.55
			6	0	22.00	21.75	21.51	21.55
		16QAM	1	0	22.50	22.04	21.76	21.67
			1	2	22.50	22.04	21.85	21.84
			1	5	22.50	21.93	21.76	21.76
			3	0	22.00	21.70	21.47	21.54
			3	1	22.00	21.83	21.50	21.59
			3	2	22.00	21.70	21.48	21.56
			6	0	21.00	20.88	20.69	20.71
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23025/700.5	23095/707.5	23165/714.5
LTE Band 12	3MHz	QPSK	1	0	23.00	22.72	22.59	22.60
			1	7	23.00	22.69	22.43	22.46
			1	14	23.00	22.63	22.47	22.60
			8	0	22.00	21.70	21.48	21.62
			8	4	22.00	21.71	21.64	21.74
			8	7	22.00	21.65	21.48	21.62
			15	0	22.00	21.67	21.48	21.74
		16QAM	1	0	22.50	22.09	21.77	22.05
			1	7	22.50	21.98	21.82	22.02
			1	14	22.50	21.92	21.77	21.93
			8	0	21.50	20.85	20.70	20.92

			8	4	21.50	20.88	20.74	20.94
			8	7	21.50	20.79	20.67	21.01
			15	0	21.50	20.80	20.69	21.05
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23035/701.5	23095/707.5	23155/713.5
LTE Band 12	5MHz	QPSK	1	0	23.50	23.04	22.89	22.82
			1	12	23.50	22.81	22.76	22.80
			1	24	23.50	22.92	22.74	22.88
			12	0	22.50	22.04	22.01	21.96
			12	6	22.50	22.09	22.01	21.99
			12	11	22.50	22.09	21.96	21.89
			25	0	22.50	22.09	21.97	21.91
		16QAM	1	0	22.50	22.37	22.12	22.01
			1	12	22.50	22.46	22.28	22.24
			1	24	22.50	22.13	22.08	22.07
			12	0	21.50	21.07	21.00	21.00
			12	6	21.50	21.22	21.08	21.04
			12	11	21.50	21.14	21.03	20.93
			25	0	21.50	21.20	21.06	20.99
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23060/704	23095/707.5	23130/711
LTE Band 12	10MHz	QPSK	1	0	23.50	23.26	23.12	23.03
			1	24	23.50	23.15	23.08	23.03
			1	49	23.50	22.93	22.90	22.93
			25	0	22.50	22.10	22.15	22.04
			25	12	22.50	22.13	22.08	22.00
			25	24	22.50	22.03	22.05	21.98
			50	0	22.50	22.10	22.08	21.99
		16QAM	1	0	22.50	22.48	22.41	22.28
			1	24	22.50	22.49	22.43	22.16
			1	49	22.50	22.19	22.17	22.19
			25	0	21.50	21.20	21.22	21.09
			25	12	21.50	21.21	21.16	21.07
			25	24	21.50	21.08	21.13	21.04
			50	0	21.50	21.17	21.17	21.04

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23755/706.5	23790/710	23825/713.5
LTE Band 17	5MHz	QPSK	1	0	23.50	22.98	22.89	22.88
			1	12	23.50	23.05	22.96	22.97
			1	24	23.50	22.86	22.81	22.86
			12	0	22.50	22.08	21.95	21.94
			12	6	22.50	22.08	22.02	22.04
			12	11	22.50	22.00	21.98	21.92
			25	0	22.50	22.04	21.98	21.96
		16QAM	1	0	22.50	22.20	22.08	22.09
			1	12	22.50	22.27	22.26	22.25
			1	24	22.50	22.05	22.01	22.00
			12	0	21.50	21.11	21.00	20.97
			12	6	21.50	21.10	21.05	21.04
			12	11	21.50	21.01	21.02	20.92
			25	0	21.50	21.09	21.03	21.01
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23780/709	23790/710	23800/711
LTE Band 17	10MHz	QPSK	1	0	23.50	23.08	23.02	23.04
			1	24	23.50	23.01	23.05	23.04
			1	49	23.50	22.87	22.92	22.93
			25	0	22.50	22.06	22.03	21.98
			25	12	22.50	22.01	22.03	22.01
			25	24	22.50	22.02	21.99	21.96
			50	0	22.50	22.05	22.03	21.97
		16QAM	1	0	22.50	22.26	22.22	22.20
			1	24	22.50	22.31	22.25	22.25
			1	49	22.50	22.16	22.11	22.11
			25	0	21.50	21.14	21.10	21.04
			25	12	21.50	21.05	21.09	21.05
			25	24	21.50	21.07	21.03	21.01
			50	0	21.50	21.10	21.09	21.03

Band	Band Width	Modulation	RB Configuration	Tune-up (dBm)	Channel/Frequency(MHz)
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			RB Size	RB Offset		37775/2572.5	38000/2595	38225/2617.5	
LTE Band 38	5MHz	QPSK	1	0	24.50	23.83	24.31	24.26	
			1	12	24.50	23.80	24.30	24.39	
			1	24	24.50	23.65	24.11	24.34	
			12	0	24.00	22.89	23.44	23.43	
			12	6	24.00	22.87	23.39	23.50	
			12	11	24.00	22.75	23.30	23.46	
			25	0	23.50	22.82	23.36	23.44	
		16QAM	1	0	24.00	22.99	23.45	23.38	
Band	Band Width		1	12	24.00	22.96	23.46	23.53	
			1	24	24.00	22.82	23.26	23.47	
			12	0	22.50	21.89	22.43	22.40	
			12	6	22.50	21.85	22.40	22.47	
			12	11	22.50	21.76	22.30	22.45	
			25	0	22.50	21.85	22.39	22.46	
	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)				
LTE Band 38		10MHz			RB Size	RB Offset	37800/2575	38000/2595	38200/2615
	QPSK	1	0	24.50	23.93	24.36	24.01		
		1	24	24.50	23.86	24.41	24.43		
		1	49	24.50	23.75	24.04	24.40		
		25	0	24.00	22.95	23.52	23.32		
		25	12	24.00	22.86	23.42	23.43		
		25	24	24.00	22.82	23.31	23.51		
	16QAM	50	0	23.50	22.89	23.45	23.42		
Band		Band Width		1	0	24.00	23.10	23.53	23.19
				1	24	24.00	23.03	23.59	23.57
				1	49	24.00	22.93	23.23	23.54
				25	0	23.00	21.96	22.54	22.34
				25	12	23.00	21.88	22.44	22.42
				25	24	23.00	21.82	22.34	22.51
				50	0	22.50	21.93	22.46	22.43
	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)				
LTE Band		15MHz			RB Size	RB Offset	37825/2577.5	38000/2595	38175/2612.5
	QPSK	1	0	24.50	23.83	24.27	23.82		
		1	37	24.50	23.79	24.31	24.14		

38			1	74	24.50	23.93	23.81	24.30	
			36	0	23.50	22.88	23.46	23.05	
			36	18	23.50	22.89	23.41	23.26	
			36	37	23.50	22.91	23.17	23.37	
			75	0	23.50	22.90	23.35	23.19	
		16QAM	1	0	23.50	23.01	23.43	23.00	
			1	37	23.50	22.96	23.49	23.32	
			1	74	23.50	23.11	22.99	23.46	
			36	0	22.50	21.85	22.44	22.03	
			36	18	22.50	21.83	22.38	22.21	
			36	37	22.50	21.85	22.14	22.33	
			75	0	22.50	21.89	22.31	22.18	
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)			
			RB Size	RB Offset		37850/2580	38000/2595	38150/2610	
		QPSK	1	0	24.50	23.79	24.09	23.95	
LTE Band 38	20MHz		1	49	24.50	23.92	24.43	24.08	
			1	99	24.50	24.14	23.64	24.25	
			50	0	24.00	22.94	23.51	23.07	
			50	24	24.00	22.94	23.45	23.15	
			50	49	24.00	23.00	23.10	23.25	
			100	0	23.50	23.03	23.37	23.16	
	16QAM	1	0	24.00	22.98	23.26	23.12		
		1	49	24.00	23.11	23.59	23.24		
		1	99	24.00	23.31	22.85	23.41		
		50	0	23.00	21.99	22.51	22.09		
		50	24	23.00	21.97	22.44	22.16		
		50	49	23.00	22.06	22.11	22.25		
		100	0	22.50	22.03	22.34	22.17		

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		39675/2498.5	40620/2593	41565/2687.5
LTE Band 41	5MHz	QPSK	1	0	25.50	24.08	25.27	24.67
			1	12	25.50	24.16	25.33	24.79
			1	24	25.50	24.04	25.14	24.77
			12	0	24.50	23.20	24.47	23.91
			12	6	24.50	23.22	24.45	23.93

				12	11	24.50	23.20	24.36	23.88
				25	0	24.50	23.15	24.41	23.83
		16QAM	1	0	24.50	23.20	24.36	23.76	
			1	12	24.50	23.29	24.44	23.89	
			1	24	24.50	23.18	24.24	23.85	
			12	0	23.50	22.16	23.40	22.90	
			12	6	23.50	22.18	23.37	22.91	
			12	11	23.50	22.16	23.32	22.87	
			25	0	23.50	22.17	23.39	22.87	
			RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)			
LTE Band 41	10MHz	Modulation	RB Size	RB Offset		39700/2501	40620/2593	41540/2685	
			1	0	25.50	24.14	25.31	24.71	
			1	24	25.50	24.20	25.47	24.85	
			1	49	25.50	24.18	25.09	24.81	
			25	0	25.00	23.19	24.51	23.86	
			25	12	25.00	23.22	24.47	23.86	
			25	24	25.00	23.26	24.37	23.81	
			50	0	24.50	23.30	24.45	23.92	
LTE Band 41	15MHz	Modulation	1	0	25.00	23.28	24.42	23.83	
			1	24	25.00	23.33	24.55	23.95	
			1	49	25.00	23.34	24.20	23.91	
			25	0	23.50	22.20	23.48	22.90	
			25	12	23.50	22.23	23.44	22.88	
			25	24	23.50	22.28	23.34	22.85	
			50	0	23.50	22.23	23.43	22.92	
			RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)			
LTE Band 41	15MHz	Modulation	RB Size	RB Offset		39725/2503.5	40620/2593	41515/2682.5	
			1	0	25.50	24.06	25.12	24.54	
			1	37	25.50	24.17	25.35	24.64	
			1	74	25.50	24.18	24.89	24.61	
			36	0	25.00	23.23	24.50	23.76	
			36	18	25.00	23.27	24.51	23.73	
			36	37	25.00	23.38	24.33	23.73	
			75	0	24.50	23.24	24.37	23.70	
		Modulation	1	0	24.50	23.20	24.22	23.64	
			1	37	24.50	23.32	24.46	23.73	

			1	74	24.50	23.34	23.99	23.71
			36	0	23.50	22.10	23.39	22.70
			36	18	23.50	22.19	23.39	22.71
			36	37	23.50	22.29	23.22	22.68
			75	0	23.50	22.26	23.34	22.70
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		39750/2506	40620/2593	41490/2680
LTE Band 41	20MHz	QPSK	1	0	25.50	24.01	24.94	24.52
			1	49	25.50	24.32	25.46	24.68
			1	99	25.50	24.02	24.67	24.52
			50	0	24.50	23.20	24.46	23.80
			50	24	24.50	23.34	24.48	23.76
			50	49	24.50	23.38	24.23	23.64
			100	0	24.50	23.36	24.37	23.78
	16QAM	16QAM	1	0	25.00	23.18	24.04	23.61
			1	49	25.00	23.50	24.54	23.77
			1	99	25.00	23.21	23.78	23.63
			50	0	23.50	22.21	23.40	22.77
			50	24	23.50	22.33	23.43	22.75
			50	49	23.50	22.36	23.17	22.61
			100	0	23.50	22.31	23.31	22.74

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)	
			RB Size	RB Offset		40140/2545	41140/2645
LTE Band 41	20MHz	QPSK	1	0	25.50	24.01	24.85
			1	49	25.50	24.24	25.32
			1	99	25.50	24.01	24.45
			50	0	24.50	23.08	24.41
			50	24	24.50	23.19	24.36
			50	49	24.50	23.20	24.23
			100	0	24.50	23.17	24.32
	16QAM	16QAM	1	0	25.00	23.03	24.01
			1	49	25.00	23.23	24.31
			1	99	25.00	23.08	23.56
			50	0	23.50	22.12	23.31
			50	24	23.50	22.20	23.40

			50	49	23.50	22.18	23.12
			100	0	23.50	22.09	23.21

7.4. WLAN & Bluetooth Output Power

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11b	1	2412	16.00	15.80
	6	2437	16.00	15.69
	11	2462	16.00	15.77
802.11g	1	2412	15.50	15.15
	6	2437	15.50	15.22
	11	2462	15.50	15.26
802.11n HT20	1	2412	15.50	15.08
	6	2437	15.50	15.11
	11	2462	15.50	15.14
802.11n HT40	3	2422	15.00	14.50
	6	2437	15.00	14.44
	9	2452	15.00	14.35

NOTE: Power measurement results of WLAN 2.4G.

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11a	36	5180	12.00	11.58
	40	5200	12.00	11.71
	48	5240	12.00	11.58
802.11n HT20	36	5180	12.00	10.97
	40	5200	12.00	11.76
	48	5240	12.00	11.87
802.11n HT40	38	5190	12.00	11.86
	46	5230	12.00	11.63
802.11ac VHT20	36	5180	12.00	11.62
	40	5200	12.00	11.42
	48	5240	12.00	11.59
802.11ac VHT40	38	5190	12.00	11.61
	46	5230	12.00	11.64
802.11ac VHT80	42	5210	12.00	11.57

NOTE: Power measurement results of WLAN 5.2G.

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11a	149	5745	11.00	10.82
	157	5785	11.00	10.80
	165	5825	11.00	10.68
802.11n HT20	149	5745	11.00	10.64
	157	5785	11.00	10.69
	165	5825	11.00	10.50
802.11n HT40	151	5755	11.00	10.84
	159	5795	11.00	10.76
802.11ac VHT20	149	5745	11.00	10.69
	157	5785	11.00	10.70
	165	5825	11.00	10.58
802.11ac VHT40	151	5755	11.00	10.77
	159	5795	11.00	10.83
802.11ac VHT80	155	5775	11.50	11.16

NOTE: Power measurement results of WLAN 5.8G.

BR+EDR	Output Power (dBm)				
	Channel	Tune-up (dBm)	Data Rates		
			1M	2M	3M
	0CH	4.00	3.52	2.80	2.80
	39CH	5.00	4.19	3.43	3.43
	78CH	5.00	4.76	3.97	3.97

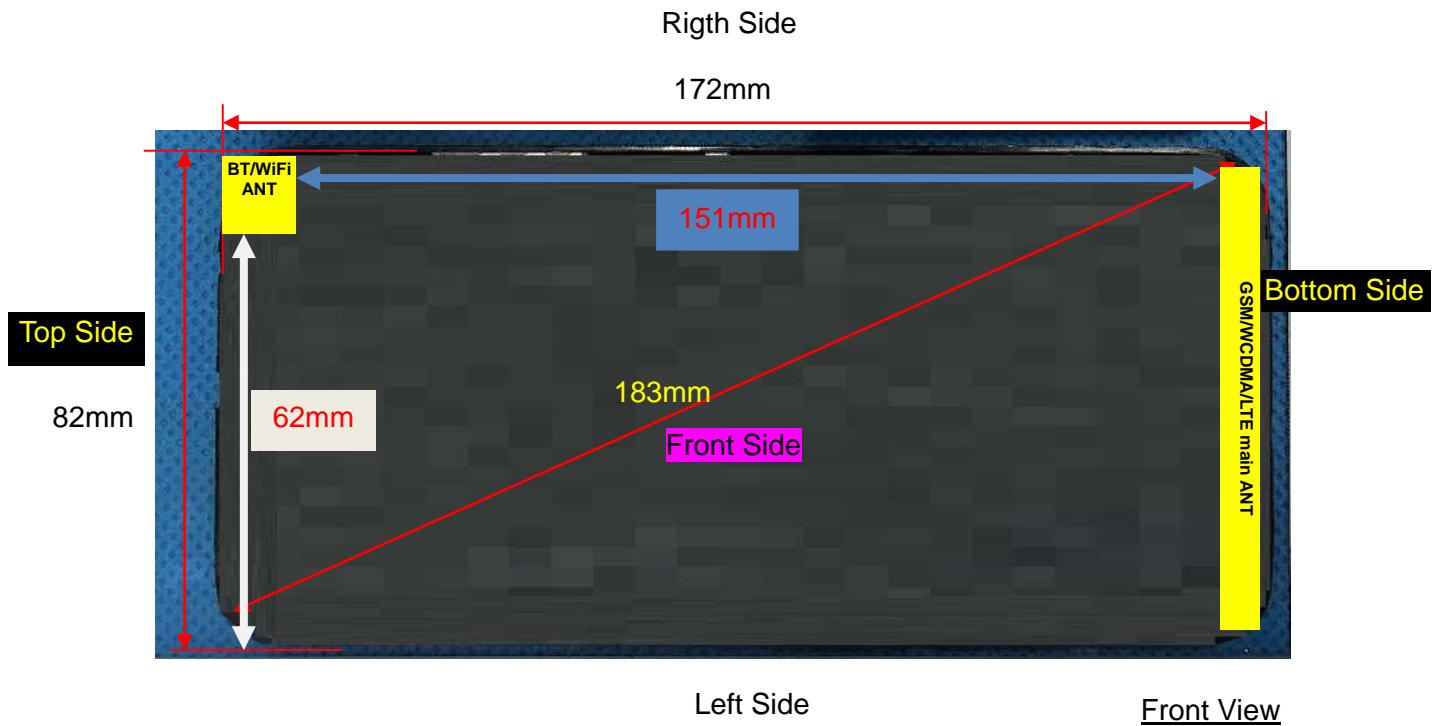
BLE	Channel	Tune-up (dBm)	Output Power (dBm)	
			1M	2M
	0CH	2.00	1.59	1.57
	19CH	3.00	2.08	2.04
	39CH	3.00	2.59	2.51

NOTE: Power measurement results of Bluetooth.

7.5. NFC

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

8. Antenna Location



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

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

9. Stand-alone SAR test exclusion

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

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f_{(\text{GHz})}}]$
 ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where:

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

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

Mode	P _{max}	P _{max}	Distance	f	Calculation	SAR Exclusion	SAR test

	(dBm)	(mW)	(mm)	(GHz)	Result	threshold	exclusion
Bluetooth	5.00	3.16	5	2.480	1	3	YES

NOTE: Standalone SAR test exclusion for Bluetooth.

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

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

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

Mode	Position	P _{max} (dBm)	P _{max} (mW)	Distance (mm)	f (GHz)	x	Estimated SAR (W/Kg)
Bluetooth	Head	5.00	3.16	5	2.48	7.5	0.132
Bluetooth	Body	5.00	3.16	10	2.48	7.5	0.066
Bluetooth	Hotspot	5.00	3.16	10	2.48	7.5	0.066

NOTE: Estimated SAR calculation for Bluetooth

10. SAR Results

10.1. SAR measurement Result

10.1.1. SAR measurement Result of GSM850

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Left Cheek	189/836.4	GPRS(GMSK 4TS)	0.316	0.230	-2.32	29.52	30.00	0.353	2024/6/21	1#
Left Tilt 15 Degree	189/836.4	GPRS(GMSK 4TS)	0.165	0.114	-1.18	29.52	30.00	0.184	2024/6/21	
Right Cheek	189/836.4	GPRS(GMSK 4TS)	0.298	0.210	-1.95	29.52	30.00	0.333	2024/6/21	
Right Tilt 15 Degree	189/836.4	GPRS(GMSK 4TS)	0.159	0.116	1.50	29.52	30.00	0.178	2024/6/21	

NOTE: Head SAR test results of GSM850.

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	189/836.4	GPRS(GMSK 4TS)	0.371	0.232	-0.09	29.52	30.00	0.414	2024/6/21	
Back Side	189/836.4	GPRS(GMSK 4TS)	0.902	0.492	-1.85	29.52	30.00	1.007	2024/6/21	
Back Side	128/824.2	GPRS(GMSK 4TS)	0.680	0.467	0.49	29.46	30.00	0.770	2024/6/21	
Back Side	251/848.8	GPRS(GMSK 4TS)	1.128	0.616	-1.31	29.91	30.00	1.152	2024/6/21	2#
BackSide Repeated	251/848.8	GPRS(GMSK 4TS)	1.125	0.612	3.01	29.91	30.00	1.149	2024/6/21	

NOTE: Body-Worn SAR test results of GSM850

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	189/836.4	GPRS(GMSK 4TS)	0.371	0.232	-0.09	29.52	30.00	0.414	2024/6/21	
Back Side	189/836.4	GPRS(GMSK 4TS)	0.902	0.492	-1.85	29.52	30.00	1.007	2024/6/21	
Left Side	189/836.4	GPRS(GMSK 4TS)	0.134	0.092	-3.55	29.52	30.00	0.150	2024/6/21	
Right Side	189/836.4	GPRS(GMSK 4TS)	0.125	0.101	0.12	29.52	30.00	0.140	2024/6/21	
Bottom Side	189/836.4	GPRS(GMSK 4TS)	0.615	0.376	-1.24	29.52	30.00	0.687	2024/6/21	
Back Side	128/824.2	GPRS(GMSK 4TS)	0.680	0.467	0.49	29.46	30.00	0.770	2024/6/21	
Back Side	251/848.8	GPRS(GMSK 4TS)	1.128	0.616	-1.31	29.91	30.00	1.152	2024/6/21	2#
BackSide Repeated	251/848.8	GPRS(GMSK 4TS)	1.125	0.612	3.01	29.91	30.00	1.149	2024/6/21	

NOTE: Hotspot SAR test results of GSM850

10.1.2. SAR measurement Result of GSM1900

SAR Measurement Result of Component									
Test	Test	Mode	SAR Value	Power	Conducted	Tune-up	Scaled	Date	Plot

Position of Head	channel /Freq.		(W/kg)		Drift(%)	Power (dBm)	Power (dBm)	SAR 1-g (W/Kg)		
			1-g	10-g						
Left Cheek	661/1880	GPRS(GMSK 3TS)	0.248	0.147	-2.02	26.93	27.50	0.283	2024/6/24	3#
Left Tilt 15 Degree	661/1880	GPRS(GMSK 3TS)	0.124	0.073	-2.45	26.93	27.50	0.141	2024/6/24	
Right Cheek	661/1880	GPRS(GMSK 3TS)	0.233	0.131	-2.78	26.93	27.50	0.266	2024/6/24	
Right Tilt 15 Degree	661/1880	GPRS(GMSK 3TS)	0.126	0.074	-2.45	26.93	27.50	0.144	2024/6/24	

NOTE: Head SAR test results of GSM1900

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift ($\pm 5\%$)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	661/1880	GPRS(GMSK 3TS)	0.330	0.190	-3.86	26.93	27.50	0.376	2024/6/24	
Back Side	661/1880	GPRS(GMSK 3TS)	0.503	0.293	-2.42	26.93	27.50	0.574	2024/6/24	4#

NOTE: Body-Worn SAR test results of GSM1900

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	661/1880	GPRS(GMSK 3TS)	0.330	0.190	-3.86	26.93	27.50	0.376	2024/6/24	
Back Side	661/1880	GPRS(GMSK 3TS)	0.503	0.293	-2.42	26.93	27.50	0.574	2024/6/24	4#
Left Side	661/1880	GPRS(GMSK 3TS)	0.175	0.092	3.78	26.93	27.50	0.200	2024/6/24	
Right Side	661/1880	GPRS(GMSK 3TS)	0.165	0.091	-2.62	26.93	27.50	0.188	2024/6/24	
Bottom Side	661/1880	GPRS(GMSK 3TS)	0.270	0.156	-0.11	26.93	27.50	0.308	2024/6/24	

NOTE: Hotspot SAR test results of GSM1900

10.1.3. SAR measurement Result of WCDMA Band 2

Test Position of Head	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Left Cheek	9400/1880	RMC12.2K	0.355	0.211	-0.76	23.50	23.50	0.355	2024/6/24	5#
Left Tilt 15 Degree	9400/1880	RMC12.2K	0.183	0.107	2.78	23.50	23.50	0.183	2024/6/24	
Right Cheek	9400/1880	RMC12.2K	0.303	0.175	1.99	23.50	23.50	0.303	2024/6/24	
Right Tilt 15 Degree	9400/1880	RMC12.2K	0.141	0.080	3.32	23.50	23.50	0.141	2024/6/24	

NOTE: Head SAR test results of WCDMA Band 2

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	9400/1880	RMC12.2K	0.444	0.255	-3.67	23.50	23.50	0.444	2024/6/24	
Back Side	9400/1880	RMC12.2K	0.738	0.428	-0.20	23.50	23.50	0.738	2024/6/24	6#

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	9400/1880	RMC12.2K	0.444	0.255	-3.67	23.50	23.50	0.444	2024/6/24	
Back Side	9400/1880	RMC12.2K	0.738	0.428	-0.20	23.50	23.50	0.738	2024/6/24	6#
Left Side	9400/1880	RMC12.2K	0.245	0.136	2.98	23.50	23.50	0.245	2024/6/24	
Right Side	9400/1880	RMC12.2K	0.231	0.129	3.05	23.50	23.50	0.231	2024/6/24	
Bottom Side	9400/1880	RMC12.2K	0.380	0.209	2.24	23.50	23.50	0.380	2024/6/24	

NOTE: Hotspot SAR test results of WCDMA Band 2

10.1.4. SAR measurement Result of WCDMA Band 4

Test Position of Head	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Left Cheek	1413/1732.6	RMC12.2K	0.173	0.111	2.79	22.99	23.00	0.173	2024/6/14	7#
Left Tilt 15 Degree	1413/1732.6	RMC12.2K	0.096	0.061	1.06	22.99	23.00	0.096	2024/6/14	
Right Cheek	1413/1732.6	RMC12.2K	0.164	0.104	1.79	22.99	23.00	0.164	2024/6/14	
Right Tilt 15 Degree	1413/1732.6	RMC12.2K	0.074	0.047	-0.75	22.99	23.00	0.074	2024/6/14	

NOTE: Head SAR test results of WCDMA Band 4

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift ($\pm 5\%$)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	1413/1732.6	RMC12.2K	0.240	0.143	-3.58	22.99	23.00	0.241	2024/6/14	
Back Side	1413/1732.6	RMC12.2K	0.362	0.220	-1.16	22.99	23.00	0.363	2024/6/14	8#

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	1413/1732.6	RMC12.2K	0.240	0.143	-3.58	22.99	23.00	0.241	2024/6/14	
Back Side	1413/1732.6	RMC12.2K	0.362	0.220	-1.16	22.99	23.00	0.363	2024/6/14	8#
Left Side	1413/1732.6	RMC12.2K	0.136	0.078	-1.94	22.99	23.00	0.136	2024/6/14	
Right Side	1413/1732.6	RMC12.2K	0.123	0.073	-1.96	22.99	23.00	0.123	2024/6/14	

Bottom Side	1413/1732.6	RMC12.2K	0.185	0.110	2.22	22.99	23.00	0.185	2024/6/14	
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NOTE: Hotspot SAR test results of WCDMA Band 4

10.1.5. SAR measurement Result of WCDMA Band 5

Test Position of Head	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Left Cheek	4182/836.4	RMC12.2K	0.155	0.117	1.45	23.57	24.00	0.171	2024/6/21	9#
Left Tilt 15 Degree	4182/836.4	RMC12.2K	0.090	0.067	-1.83	23.57	24.00	0.099	2024/6/21	
Right Cheek	4182/836.4	RMC12.2K	0.144	0.109	1.50	23.57	24.00	0.159	2024/6/21	
Right Tilt 15 Degree	4182/836.4	RMC12.2K	0.077	0.058	3.08	23.57	24.00	0.085	2024/6/21	

NOTE: Head SAR test results of WCDMA Band 5

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	4182/836.4	RMC12.2K	0.252	0.141	-1.11	23.57	24.00	0.278	2024/6/21	
Back Side	4182/836.4	RMC12.2K	0.401	0.225	-3.29	23.57	24.00	0.443	2024/6/21	10#

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	4182/836.4	RMC12.2K	0.252	0.141	-1.11	23.57	24.00	0.278	2024/6/21	
Back Side	4182/836.4	RMC12.2K	0.401	0.225	-3.29	23.57	24.00	0.443	2024/6/21	10#
Left Side	4182/836.4	RMC12.2K	0.135	0.073	-1.81	23.57	24.00	0.149	2024/6/21	
Right Side	4182/836.4	RMC12.2K	0.126	0.069	-0.31	23.57	24.00	0.139	2024/6/21	

Front Side	18900/1880	20M QPSK(1,49)	0.276	0.174	-0.16	22.88	23.50	0.318	2024/6/24	
Back Side	18900/1880	20M QPSK(1,49)	0.427	0.275	-0.45	22.88	23.50	0.493	2024/6/24	20#
50%RB										
Front Side	18900/1880	20M QPSK(50,49)	0.151	0.098	4.58	21.50	22.50	0.190	2024/6/24	
Back Side	18900/1880	20M QPSK(50,49)	0.234	0.144	4.47	21.50	22.50	0.295	2024/6/24	

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	18900/1880	20M QPSK(1,49)	0.276	0.174	-0.16	22.88	23.50	0.318	2024/6/24	
Back Side	18900/1880	20M QPSK(1,49)	0.427	0.275	-0.45	22.88	23.50	0.493	2024/6/24	20#
Left Side	18900/1880	20M QPSK(1,49)	0.154	0.093	-2.57	22.88	23.50	0.178	2024/6/24	
Right Side	18900/1880	20M QPSK(1,49)	0.141	0.089	3.10	22.88	23.50	0.163	2024/6/24	
Bottom Side	18900/1880	20M QPSK(1,49)	0.235	0.144	2.56	22.88	23.50	0.271	2024/6/24	
50%RB										
Front Side	18900/1880	20M QPSK(50,49)	0.151	0.098	4.58	21.50	22.50	0.190	2024/6/24	
Back Side	18900/1880	20M QPSK(50,49)	0.234	0.144	4.47	21.50	22.50	0.295	2024/6/24	
Left Side	18900/1880	20M QPSK(50,49)	0.081	0.054	1.96	21.50	22.50	0.102	2024/6/24	
Right Side	18900/1880	20M QPSK(50,49)	0.078	0.048	-1.11	21.50	22.50	0.098	2024/6/24	
Bottom Side	18900/1880	20M QPSK(50,49)	0.121	0.083	-3.64	21.50	22.50	0.152	2024/6/24	

NOTE: Hotspot SAR test results of LTE Band 2

10.1.7. SAR measurement Result of LTE Band 4

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	20175/1732.5	20M QPSK(1,49)	0.149	0.097	4.20	23.09	23.50	0.164	2024/6/14	21#
Left Tilt	20175/1732.5	20M QPSK(1,49)	0.081	0.051	1.98	23.09	23.50	0.089	2024/6/14	

15 Degree										
Right Cheek	20175/1732.5	20M QPSK(1,49)	0.133	0.085	3.86	23.09	23.50	0.146	2024/6/14	
Right Tilt 15 Degree	20175/1732.5	20M QPSK(1,49)	0.066	0.041	0.11	23.09	23.50	0.073	2024/6/14	
50%RB										
Left Cheek	20175/1732.5	20M QPSK(50,0)	0.078	0.052	0.33	21.95	22.50	0.089	2024/6/14	
Left Tilt 15 Degree	20175/1732.5	20M QPSK(50,0)	0.045	0.028	-2.69	21.95	22.50	0.051	2024/6/14	
Right Cheek	20175/1732.5	20M QPSK(50,0)	0.072	0.047	3.53	21.95	22.50	0.082	2024/6/14	
Right Tilt 15 Degree	20175/1732.5	20M QPSK(50,0)	0.035	0.023	-2.80	21.95	22.50	0.040	2024/6/14	

NOTE: Head SAR test results of LTE Band 4

Test Position of Body- Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
1RB										
Front Side	20175/1732.5	20M QPSK(1,49)	0.150	0.092	0.76	23.09	23.50	0.165	2024/6/14	
Back Side	20175/1732.5	20M QPSK(1,49)	0.246	0.156	-0.40	23.09	23.50	0.270	2024/6/14	22#
50%RB										
Front Side	20175/1732.5	20M QPSK(50,0)	0.075	0.051	-2.01	21.95	22.50	0.085	2024/6/14	
Back Side	20175/1732.5	20M QPSK(50,0)	0.132	0.081	-3.94	21.95	22.50	0.150	2024/6/14	

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front	20175/1732.5	20M QPSK(1,49)	0.150	0.092	0.76	23.09	23.50	0.165	2024/6/14	

Side										
Back Side	20175/1732.5	20M QPSK(1,49)	0.246	0.156	-0.40	23.09	23.50	0.270	2024/6/14	22#
Left Side	20175/1732.5	20M QPSK(1,49)	0.082	0.051	-0.25	23.09	23.50	0.090	2024/6/14	
Right Side	20175/1732.5	20M QPSK(1,49)	0.078	0.047	-2.66	23.09	23.50	0.086	2024/6/14	
Bottom Side	20175/1732.5	20M QPSK(1,49)	0.130	0.079	3.50	23.09	23.50	0.143	2024/6/14	
50%RB										
Front Side	20175/1732.5	20M QPSK(50,0)	0.075	0.051	-2.01	21.95	22.50	0.085	2024/6/14	
Back Side	20175/1732.5	20M QPSK(50,0)	0.132	0.081	-3.94	21.95	22.50	0.150	2024/6/14	
Left Side	20175/1732.5	20M QPSK(50,0)	0.049	0.030	2.68	21.95	22.50	0.056	2024/6/14	
Right Side	20175/1732.5	20M QPSK(50,0)	0.040	0.028	4.80	21.95	22.50	0.045	2024/6/14	
Bottom Side	20175/1732.5	20M QPSK(50,0)	0.072	0.047	-0.91	21.95	22.50	0.082	2024/6/14	

NOTE: Hotspot SAR test results of LTE Band 4

10.1.8. SAR measurement Result of LTE Band 5

Left Cheek	20525/836.5	10M QPSK(25,24)	0.103	0.079	-0.99	22.24	22.50	0.109	2024/6/21	
Left Tilt 15 Degree	20525/836.5	10M QPSK(25,24)	0.054	0.042	-4.83	22.24	22.50	0.057	2024/6/21	
Right Cheek	20525/836.5	10M QPSK(25,24)	0.094	0.068	-0.93	22.24	22.50	0.100	2024/6/21	
Right Tilt 15 Degree	20525/836.5	10M QPSK(25,24)	0.044	0.036	-2.08	22.24	22.50	0.047	2024/6/21	

NOTE: Head SAR test results of LTE Band 5

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
1RB										
Front Side	20525/836.5	10M QPSK(1,24)	0.240	0.129	-2.34	23.34	23.50	0.249	2024/6/21	
Back Side	20525/836.5	10M QPSK(1,24)	0.391	0.221	-1.14	23.34	23.50	0.406	2024/6/21	24#
50%RB										
Front Side	20525/836.5	10M QPSK(25,24)	0.127	0.065	-2.49	22.24	22.50	0.135	2024/6/21	
Back Side	20525/836.5	10M QPSK(25,24)	0.233	0.126	-1.35	22.24	22.50	0.247	2024/6/21	

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	20525/836.5	10M QPSK(1,24)	0.240	0.129	-2.34	23.34	23.50	0.249	2024/6/21	

Back Side	20525/836.5	10M QPSK(1,24)	0.391	0.221	-1.14	23.34	23.50	0.406	2024/6/21	24#
Left Side	20525/836.5	10M QPSK(1,24)	0.132	0.071	2.46	23.34	23.50	0.137	2024/6/21	
Right Side	20525/836.5	10M QPSK(1,24)	0.123	0.070	1.25	23.34	23.50	0.128	2024/6/21	
Bottom Side	20525/836.5	10M QPSK(1,24)	0.220	0.124	-3.42	23.34	23.50	0.228	2024/6/21	
50%RB										
Front Side	20525/836.5	10M QPSK(25,24)	0.127	0.065	-2.49	22.24	22.50	0.135	2024/6/21	
Back Side	20525/836.5	10M QPSK(25,24)	0.233	0.126	-1.35	22.24	22.50	0.247	2024/6/21	
Left Side	20525/836.5	10M QPSK(25,24)	0.073	0.042	-4.80	22.24	22.50	0.078	2024/6/21	
Right Side	20525/836.5	10M QPSK(25,24)	0.070	0.039	-2.81	22.24	22.50	0.074	2024/6/21	
Bottom Side	20525/836.5	10M QPSK(25,24)	0.124	0.071	2.11	22.24	22.50	0.132	2024/6/21	

NOTE: Hotspot SAR test results of LTE Band 5

10.1.9. SAR measurement Result of LTE Band 7

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	21100/2535	20M QPSK(1,49)	0.458	0.240	0.75	10.60	12.00	0.632	2024/6/18	25#
Left Tilt 15 Degree	21100/2535	20M QPSK(1,49)	0.259	0.132	2.32	10.60	12.00	0.358	2024/6/18	
Right Cheek	21100/2535	20M QPSK(1,49)	0.392	0.203	-1.20	10.60	12.00	0.541	2024/6/18	
Right Tilt 15 Degree	21100/2535	20M QPSK(1,49)	0.190	0.097	-0.16	10.60	12.00	0.262	2024/6/18	
50%RB										
Left	21100/2535	20M QPSK(50,24)	0.255	0.135	3.91	10.65	12.00	0.348	2024/6/18	

Cheek										
Left Tilt 15 Degree	21100/2535	20M QPSK(50,24)	0.149	0.076	-3.07	10.65	12.00	0.203	2024/6/18	
Right Cheek	21100/2535	20M QPSK(50,24)	0.199	0.102	3.81	10.65	12.00	0.272	2024/6/18	
Right Tilt 15 Degree	21100/2535	20M QPSK(50,24)	0.104	0.052	-4.43	10.65	12.00	0.142	2024/6/18	

NOTE: Head SAR test results of LTE Band 7

Test Position of Body-Worn with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	21100/2535	20M QPSK(1,49)	0.264	0.129	2.35	10.60	12.00	0.364	2024/6/18	
Back Side	21100/2535	20M QPSK(1,49)	0.416	0.207	-3.48	10.60	12.00	0.574	2024/6/18	26#
50%RB										
Front Side	21100/2535	20M QPSK(50,24)	0.156	0.073	-2.45	10.65	12.00	0.213	2024/6/18	
Back Side	21100/2535	20M QPSK(50,24)	0.217	0.120	-4.23	10.65	12.00	0.296	2024/6/18	

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	21100/2535	20M QPSK(1,49)	0.264	0.129	2.35	10.60	12.00	0.364	2024/6/18	
Back Side	21100/2535	20M QPSK(1,49)	0.416	0.207	-3.48	10.60	12.00	0.574	2024/6/18	26#
Left Side	21100/2535	20M QPSK(1,49)	0.135	0.067	2.85	10.60	12.00	0.186	2024/6/18	
Right Side	21100/2535	20M QPSK(1,49)	0.132	0.066	0.27	10.60	12.00	0.182	2024/6/18	
Bottom Side	21100/2535	20M QPSK(1,49)	0.210	0.102	-0.09	10.60	12.00	0.290	2024/6/18	

50%RB										
Front Side	21100/2535	20M QPSK(50,24)	0.156	0.073	-2.45	10.65	12.00	0.213	2024/6/18	
Back Side	21100/2535	20M QPSK(50,24)	0.217	0.120	-4.23	10.65	12.00	0.296	2024/6/18	
Left Side	21100/2535	20M QPSK(50,24)	0.079	0.037	-1.60	10.65	12.00	0.108	2024/6/18	
Right Side	21100/2535	20M QPSK(50,24)	0.069	0.035	2.06	10.65	12.00	0.094	2024/6/18	
Bottom Side	21100/2535	20M QPSK(50,24)	0.118	0.060	-0.79	10.65	12.00	0.161	2024/6/18	

NOTE: Hotspot SAR test results of LTE Band 7

10.1.10. SAR measurement Result of LTE Band 12

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	23095/707.5	10M QPSK(1,0)	0.076	0.062	-4.73	23.12	23.50	0.083	2024/6/20	27#
Left Tilt 15 Degree	23095/707.5	10M QPSK(1,0)	0.043	0.034	-1.82	23.12	23.50	0.047	2024/6/20	
Right Cheek	23095/707.5	10M QPSK(1,0)	0.071	0.057	3.97	23.12	23.50	0.077	2024/6/20	
Right Tilt 15 Degree	23095/707.5	10M QPSK(1,0)	0.038	0.031	-3.29	23.12	23.50	0.041	2024/6/20	
50%RB										
Left Cheek	23095/707.5	10M QPSK(25,0)	0.040	0.037	3.47	22.15	22.50	0.043	2024/6/20	
Left Tilt 15 Degree	23095/707.5	10M QPSK(25,0)	0.024	0.020	4.29	22.15	22.50	0.026	2024/6/20	
Right Cheek	23095/707.5	10M QPSK(25,0)	0.036	0.032	-0.64	22.15	22.50	0.039	2024/6/20	
Right Tilt 15	23095/707.5	10M QPSK(25,0)	0.019	0.017	2.56	22.15	22.50	0.021	2024/6/20	

Degree										
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NOTE: Head SAR test results of LTE Band 12

Test Position of Body-Worn with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	23095/707.5	10M QPSK(1,0)	0.114	0.083	-1.02	23.12	23.50	0.124	2024/6/20	
Back Side	23095/707.5	10M QPSK(1,0)	0.182	0.138	-1.20	23.12	23.50	0.199	2024/6/20	28#
50%RB										
Front Side	23095/707.5	10M QPSK(25,0)	0.058	0.047	1.22	22.15	22.50	0.063	2024/6/20	
Back Side	23095/707.5	10M QPSK(25,0)	0.107	0.082	0.86	22.15	22.50	0.116	2024/6/20	

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	23095/707.5	10M QPSK(1,0)	0.114	0.083	-1.02	23.12	23.50	0.124	2024/6/20	
Back Side	23095/707.5	10M QPSK(1,0)	0.182	0.138	-1.20	23.12	23.50	0.199	2024/6/20	28#
Left Side	23095/707.5	10M QPSK(1,0)	0.072	0.055	-0.41	23.12	23.50	0.079	2024/6/20	
Right Side	23095/707.5	10M QPSK(1,0)	0.069	0.051	-1.38	23.12	23.50	0.075	2024/6/20	
Bottom Side	23095/707.5	10M QPSK(1,0)	0.100	0.072	1.18	23.12	23.50	0.109	2024/6/20	
50%RB										
Front Side	23095/707.5	10M QPSK(25,0)	0.058	0.047	1.22	22.15	22.50	0.063	2024/6/20	
Back Side	23095/707.5	10M QPSK(25,0)	0.107	0.082	0.86	22.15	22.50	0.116	2024/6/20	
Left Side	23095/707.5	10M QPSK(25,0)	0.037	0.033	-3.18	22.15	22.50	0.040	2024/6/20	
Right	23095/707.5	10M	0.034	0.031	4.77	22.15	22.50	0.037	2024/6/20	

Side		QPSK(25,0)							
Bottom Side	23095/707.5	10M QPSK(25,0)	0.058	0.036	-2.21	22.15	22.50	0.063	2024/6/20

NOTE: Hotspot SAR test results of LTE Band 12

10.1.11. SAR measurement Result of LTE Band 17

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	23790/710	10M QPSK(1,0)	0.082	0.067	-3.31	23.02	23.50	0.092	2024/6/20	29#
Left Tilt 15 Degree	23790/710	10M QPSK(1,0)	0.048	0.039	-2.55	23.02	23.50	0.054	2024/6/20	
Right Cheek	23790/710	10M QPSK(1,0)	0.077	0.063	2.26	23.02	23.50	0.086	2024/6/20	
Right Tilt 15 Degree	23790/710	10M QPSK(1,0)	0.040	0.033	1.52	23.02	23.50	0.045	2024/6/20	
50%RB										
Left Cheek	23790/710	10M QPSK(25,0)	0.047	0.039	-3.68	22.03	22.50	0.052	2024/6/20	
Left Tilt 15 Degree	23790/710	10M QPSK(25,0)	0.029	0.020	-2.53	22.03	22.50	0.032	2024/6/20	
Right Cheek	23790/710	10M QPSK(25,0)	0.039	0.032	3.12	22.03	22.50	0.043	2024/6/20	
Right Tilt 15 Degree	23790/710	10M QPSK(25,0)	0.023	0.017	3.67	22.03	22.50	0.026	2024/6/20	

NOTE: Head SAR test results of LTE Band 17

1RB										
Front Side	23790/710	10M QPSK(1,0)	0.138	0.103	1.47	23.02	23.50	0.154	2024/6/20	
Back Side	23790/710	10M QPSK(1,0)	0.196	0.149	0.99	23.02	23.50	0.219	2024/6/20	30#
50%RB										
Front Side	23790/710	10M QPSK(25,0)	0.072	0.059	4.14	22.03	22.50	0.080	2024/6/20	
Back Side	23790/710	10M QPSK(25,0)	0.116	0.080	-4.73	22.03	22.50	0.129	2024/6/20	

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	23790/710	10M QPSK(1,0)	0.138	0.103	1.47	23.02	23.50	0.154	2024/6/20	
Back Side	23790/710	10M QPSK(1,0)	0.196	0.149	0.99	23.02	23.50	0.219	2024/6/20	30#
Left Side	23790/710	10M QPSK(1,0)	0.072	0.052	3.85	23.02	23.50	0.080	2024/6/20	
Right Side	23790/710	10M QPSK(1,0)	0.066	0.048	2.03	23.02	23.50	0.074	2024/6/20	
Bottom Side	23790/710	10M QPSK(1,0)	0.105	0.078	-3.79	23.02	23.50	0.117	2024/6/20	
50%RB										
Front Side	23790/710	10M QPSK(25,0)	0.072	0.059	4.14	22.03	22.50	0.080	2024/6/20	
Back Side	23790/710	10M QPSK(25,0)	0.116	0.080	-4.73	22.03	22.50	0.129	2024/6/20	
Left Side	23790/710	10M QPSK(25,0)	0.043	0.031	-0.20	22.03	22.50	0.048	2024/6/20	
Right Side	23790/710	10M QPSK(25,0)	0.038	0.025	3.58	22.03	22.50	0.042	2024/6/20	
Bottom Side	23790/710	10M QPSK(25,0)	0.055	0.043	4.80	22.03	22.50	0.061	2024/6/20	

NOTE: Hotspot SAR test results of LTE Band 17

10.1.12. SAR measurement Result of LTE Band 38

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	38000/2595	20M QPSK(1,49)	0.206	0.109	-0.50	24.43	24.50	0.209	2024/6/18	31#
Left Tilt 15 Degree	38000/2595	20M QPSK(1,49)	0.120	0.060	2.58	24.43	24.50	0.122	2024/6/18	
Right Cheek	38000/2595	20M QPSK(1,49)	0.181	0.093	-2.81	24.43	24.50	0.184	2024/6/18	
Right Tilt 15 Degree	38000/2595	20M QPSK(1,49)	0.095	0.049	-3.89	24.43	24.50	0.097	2024/6/18	
50%RB										
Left Cheek	38000/2595	20M QPSK(50,0)	0.122	0.057	4.86	23.51	24.00	0.137	2024/6/18	
Left Tilt 15 Degree	38000/2595	20M QPSK(50,0)	0.064	0.035	-2.11	23.51	24.00	0.072	2024/6/18	
Right Cheek	38000/2595	20M QPSK(50,0)	0.099	0.048	0.03	23.51	24.00	0.111	2024/6/18	
Right Tilt 15 Degree	38000/2595	20M QPSK(50,0)	0.048	0.025	4.21	23.51	24.00	0.054	2024/6/18	

NOTE: Head SAR test results of LTE Band 38

Test Position of Body-Worn with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	38000/2595	20M QPSK(1,49)	0.126	0.061	-3.24	24.43	24.50	0.128	2024/6/18	
Back Side	38000/2595	20M QPSK(1,49)	0.190	0.094	-3.76	24.43	24.50	0.193	2024/6/18	32#
50%RB										
Front Side	38000/2595	20M QPSK(50,0)	0.072	0.032	4.02	23.51	24.00	0.081	2024/6/18	
Back Side	38000/2595	20M QPSK(50,0)	0.095	0.051	0.07	23.51	24.00	0.106	2024/6/18	

Left Cheek	40620/2593	20M QPSK(1,49)	0.117	0.065	1.30	25.46	25.50	0.118	2024/6/18	33#
Left Tilt 15 Degree	40620/2593	20M QPSK(1,49)	0.061	0.033	-2.93	25.46	25.50	0.062	2024/6/18	
Right Cheek	40620/2593	20M QPSK(1,49)	0.102	0.056	0.83	25.46	25.50	0.103	2024/6/18	
Right Tilt 15 Degree	40620/2593	20M QPSK(1,49)	0.049	0.027	-1.76	25.46	25.50	0.049	2024/6/18	
50%RB										
Left Cheek	40620/2593	20M QPSK(50,24)	0.065	0.033	-4.40	24.48	24.50	0.065	2024/6/18	
Left Tilt 15 Degree	40620/2593	20M QPSK(50,24)	0.032	0.019	-1.04	24.48	24.50	0.032	2024/6/18	
Right Cheek	40620/2593	20M QPSK(50,24)	0.052	0.031	2.32	24.48	24.50	0.052	2024/6/18	
Right Tilt 15 Degree	40620/2593	20M QPSK(50,24)	0.028	0.014	-4.19	24.48	24.50	0.028	2024/6/18	

NOTE: Head SAR test results of LTE Band 41

Test Position of Body-Worn with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	40620/2593	20M QPSK(1,49)	0.096	0.046	1.61	25.46	25.50	0.097	2024/6/18	
Back Side	40620/2593	20M QPSK(1,49)	0.112	0.056	-2.52	25.46	25.50	0.113	2024/6/18	34#
50%RB										
Front Side	40620/2593	20M QPSK(50,24)	0.057	0.026	-1.92	24.48	24.50	0.057	2024/6/18	
Back Side	40620/2593	20M QPSK(50,24)	0.061	0.032	1.31	24.48	24.50	0.061	2024/6/18	

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

10mm										
1RB										
Front Side	40620/2593	20M QPSK(1,49)	0.096	0.046	1.61	25.46	25.50	0.097	2024/6/18	
Back Side	40620/2593	20M QPSK(1,49)	0.112	0.056	-2.52	25.46	25.50	0.113	2024/6/18	34#
Left Side	40620/2593	20M QPSK(1,49)	0.048	0.023	-3.92	25.46	25.50	0.048	2024/6/18	
Right Side	40620/2593	20M QPSK(1,49)	0.036	0.018	-0.57	25.46	25.50	0.036	2024/6/18	
Bottom Side	40620/2593	20M QPSK(1,49)	0.080	0.038	3.98	25.46	25.50	0.081	2024/6/18	
50%RB										
Front Side	40620/2593	20M QPSK(50,24)	0.057	0.026	-1.92	24.48	24.50	0.057	2024/6/18	
Back Side	40620/2593	20M QPSK(50,24)	0.061	0.032	1.31	24.48	24.50	0.061	2024/6/18	
Left Side	40620/2593	20M QPSK(50,24)	0.025	0.012	2.43	24.48	24.50	0.025	2024/6/18	
Right Side	40620/2593	20M QPSK(50,24)	0.021	0.010	4.12	24.48	24.50	0.021	2024/6/18	
Bottom Side	40620/2593	20M QPSK(50,24)	0.043	0.022	3.42	24.48	24.50	0.043	2024/6/18	

NOTE: Hotspot SAR test results of LTE Band 41

10.1.14. SAR measurement Result of WLAN2.4G

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Left Cheek	1/2412	802.11b	0.232	0.105	-3.66	15.80	16.00	0.243	2024/6/19	17#
Left Tilt 15 Degree	1/2412	802.11b	0.124	0.056	-2.56	15.80	16.00	0.130	2024/6/19	
Right Cheek	1/2412	802.11b	0.199	0.087	-0.54	15.80	16.00	0.208	2024/6/19	
Right Tilt	1/2412	802.11b	0.105	0.046	-1.89	15.80	16.00	0.110	2024/6/19	

15 Degree										
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NOTE: Head SAR test results of WLAN2.4G

Test Position of Body-Worn with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	1/2412	802.11b	0.061	0.034	0.14	15.80	16.00	0.064	2024/6/19	
Back Side	1/2412	802.11b	0.104	0.059	2.43	15.80	16.00	0.109	2024/6/19	18#

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	1/2412	802.11b	0.061	0.034	0.14	15.80	16.00	0.064	2024/6/19	
Back Side	1/2412	802.11b	0.104	0.059	2.43	15.80	16.00	0.109	2024/6/19	18#
Right Side	1/2412	802.11b	0.047	0.027	0.15	15.80	16.00	0.049	2024/6/19	
Top Side	1/2412	802.11b	0.099	0.057	0.48	15.80	16.00	0.104	2024/6/19	

NOTE: Hotspot SAR test results of WLAN2.4G

10.1.15. SAR measurement Result of WLAN5.2G

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Left Cheek	48/5240	802.11n HT20	0.283	0.106	-0.01	11.87	12.00	0.292	2024/6/07	13#
Left Tilt 15 Degree	48/5240	802.11n HT20	0.152	0.056	-1.34	11.87	12.00	0.157	2024/6/07	
Right	48/5240	802.11n HT20	0.268	0.098	2.54	11.87	12.00	0.276	2024/6/07	

Cheek										
Right Tilt 15 Degree	48/5240	802.11n HT20	0.131	0.049	1.68	11.87	12.00	0.135	2024/6/07	

NOTE: Head SAR test results of WLAN5.2G

Test Position of Body-Worn with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	48/5240	802.11n HT20	0.071	0.032	-1.58	11.87	12.00	0.073	2024/6/07	
Back Side	48/5240	802.11n HT20	0.136	0.063	-4.07	11.87	12.00	0.140	2024/6/07	15#

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	48/5240	802.11n HT20	0.071	0.032	-1.58	11.87	12.00	0.073	2024/6/07	
Back Side	48/5240	802.11n HT20	0.136	0.063	-4.07	11.87	12.00	0.140	2024/6/07	15#
Right Side	48/5240	802.11n HT20	0.054	0.025	-0.92	11.87	12.00	0.056	2024/6/07	
Top Side	48/5240	802.11n HT20	0.090	0.040	-2.31	11.87	12.00	0.093	2024/6/07	

NOTE: Hotspot SAR test results of WLAN5.2G

10.1.16. SAR measurement Result of WLAN5.8G

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Left Cheek	155/5775	802.11ac VHT80	0.279	0.102	-2.66	11.16	11.50	0.302	2024/6/06	14#
Left Tilt	155/5775	802.11ac VHT80	0.151	0.052	2.54	11.16	11.50	0.163	2024/6/06	

15 Degree										
Right Cheek	155/5775	802.11ac VHT80	0.259	0.094	0.95	11.16	11.50	0.280	2024/6/06	
Right Tilt 15 Degree	155/5775	802.11ac VHT80	0.122	0.043	-2.45	11.16	11.50	0.132	2024/6/06	

NOTE: Head SAR test results of WLAN5.8G

Test Position of Body-Worn with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	155/5775	802.11ac VHT80	0.041	0.027	0.45	11.16	11.50	0.044	2024/6/06	
Back Side	155/5775	802.11ac VHT80	0.072	0.044	-0.21	11.16	11.50	0.078	2024/6/06	16#

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

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	155/5775	802.11ac VHT80	0.041	0.027	0.45	11.16	11.50	0.044	2024/6/06	
Back Side	155/5775	802.11ac VHT80	0.072	0.044	-0.21	11.16	11.50	0.078	2024/6/06	16#
Right Side	155/5775	802.11ac VHT80	0.024	0.015	1.32	11.16	11.50	0.026	2024/6/06	
Top Side	155/5775	802.11ac VHT80	0.066	0.036	4.01	11.16	11.50	0.071	2024/6/06	

NOTE: Hotspot SAR test results of WLAN5.8G

10.2. Simultaneous Transmission Analysis

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

- 1) Scalar SAR summation < 1.6W/kg.
- 2) SPLSR = $(\text{SAR}_1 + \text{SAR}_2)^{1.5} / (\text{min. separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x_1-x_2)^2 + (y_1-y_2)^2 + (z_1-z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates of the extrapolated peak SAR locations in the zoom scan. If SPLSR ≤ 0.04 , simultaneously

transmission SAR measurement is not necessary.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	DTS			
Head	Left Cheek	0.632	0.243	0.875	N/A	N/A
	Left Tilt 15 Degree	0.358	0.130	0.488	N/A	N/A
	Right Cheek	0.541	0.208	0.749	N/A	N/A
	Right Tilt 15 Degree	0.262	0.110	0.372	N/A	N/A
Body-Worn	Front Side	0.444	0.064	0.508	N/A	N/A
	Back Side	1.152	0.109	1.261	N/A	N/A
Hotspot	Front Side	0.444	0.064	0.508	N/A	N/A
	Back Side	1.152	0.109	1.261	N/A	N/A
	Left Side	0.245	N/A	0.245	N/A	N/A
	Right Side	0.231	0.049	0.280	N/A	N/A
	Top Side	N/A	0.104	0.104	N/A	N/A
	Bottom Side	0.687	N/A	0.687	N/A	N/A

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	NII			
Head	Left Cheek	0.632	0.302	0.934	N/A	N/A
	Left Tilt 15 Degree	0.358	0.163	0.521	N/A	N/A
	Right Cheek	0.541	0.280	0.821	N/A	N/A
	Right Tilt 15 Degree	0.262	0.135	0.397	N/A	N/A
Body-Worn	Front Side	0.444	0.073	0.517	N/A	N/A
	Back Side	1.152	0.140	1.292	N/A	N/A
Hotspot	Front Side	0.444	0.073	0.517	N/A	N/A
	Back Side	1.152	0.140	1.292	N/A	N/A
	Left Side	0.245	N/A	0.245	N/A	N/A
	Right Side	0.231	0.056	0.287	N/A	N/A
	Top Side	N/A	0.093	0.093	N/A	N/A
	Bottom Side	0.687	N/A	0.687	N/A	N/A

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	DSS			
Head	Left Cheek	0.632	0.132	0.764	N/A	N/A
	Left Tilt 15 Degree	0.358	0.132	0.490	N/A	N/A
	Right Cheek	0.541	0.132	0.673	N/A	N/A
	Right Tilt 15 Degree	0.262	0.132	0.394	N/A	N/A
Body-Worn	Front Side	0.444	0.066	0.510	N/A	N/A
	Back Side	1.152	0.066	1.218	N/A	N/A
Hotspot	Front Side	0.444	0.066	0.510	N/A	N/A
	Back Side	1.152	0.066	1.218	N/A	N/A
	Left Side	0.245	N/A	0.245	N/A	N/A
	Right Side	0.231	0.066	0.297	N/A	N/A
	Top Side	N/A	0.066	0.066	N/A	N/A
	Bottom Side	0.687	N/A	0.687	N/A	N/A

11. Appendix A. Photo documentation

Refer to appendix Test Setup photo---SAR

12. Appendix B. System Check Plots

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MEASUREMENT 3 System Performance Check - 1800MHz

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MEASUREMENT 5 System Performance Check - 2450MHz

MEASUREMENT 6 System Performance Check - 2600MHz

MEASUREMENT 7 System Performance Check - 5200MHz

MEASUREMENT 8 System Performance Check - 5800MHz

MEASUREMENT 1

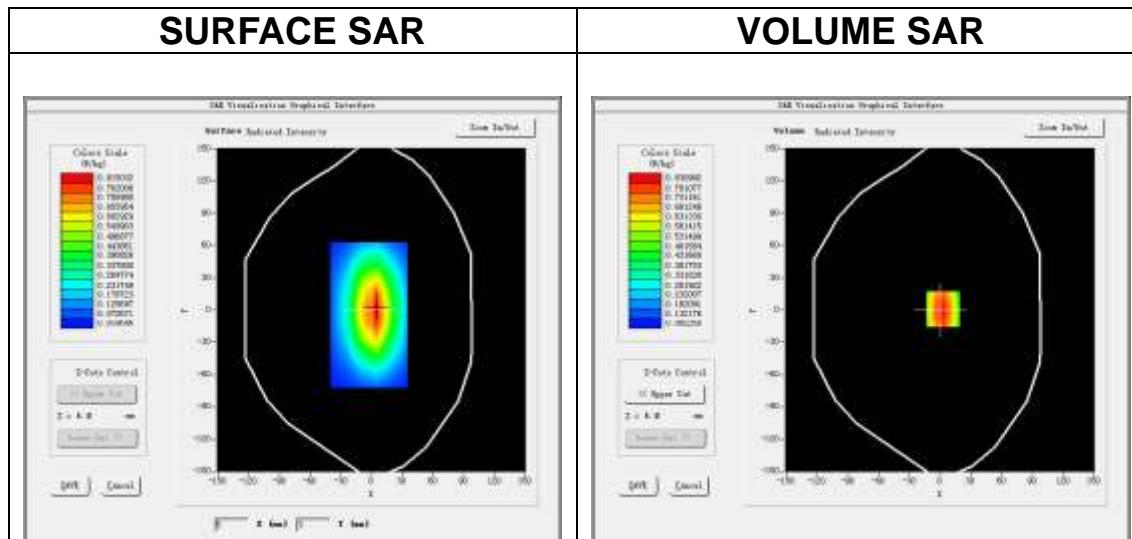
Date of measurement: 20/6/2024

A. Experimental conditions.

<u>Area Scan</u>	<u>$dx=15\text{mm}$ $dy=15\text{mm}$, $h= 5.00 \text{ mm}$</u>
<u>ZoomScan</u>	<u>$5\times 5\times 7, dx=8\text{mm}$ $dy=8\text{mm}$ $dz=5\text{mm}$</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW750</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.37</u>

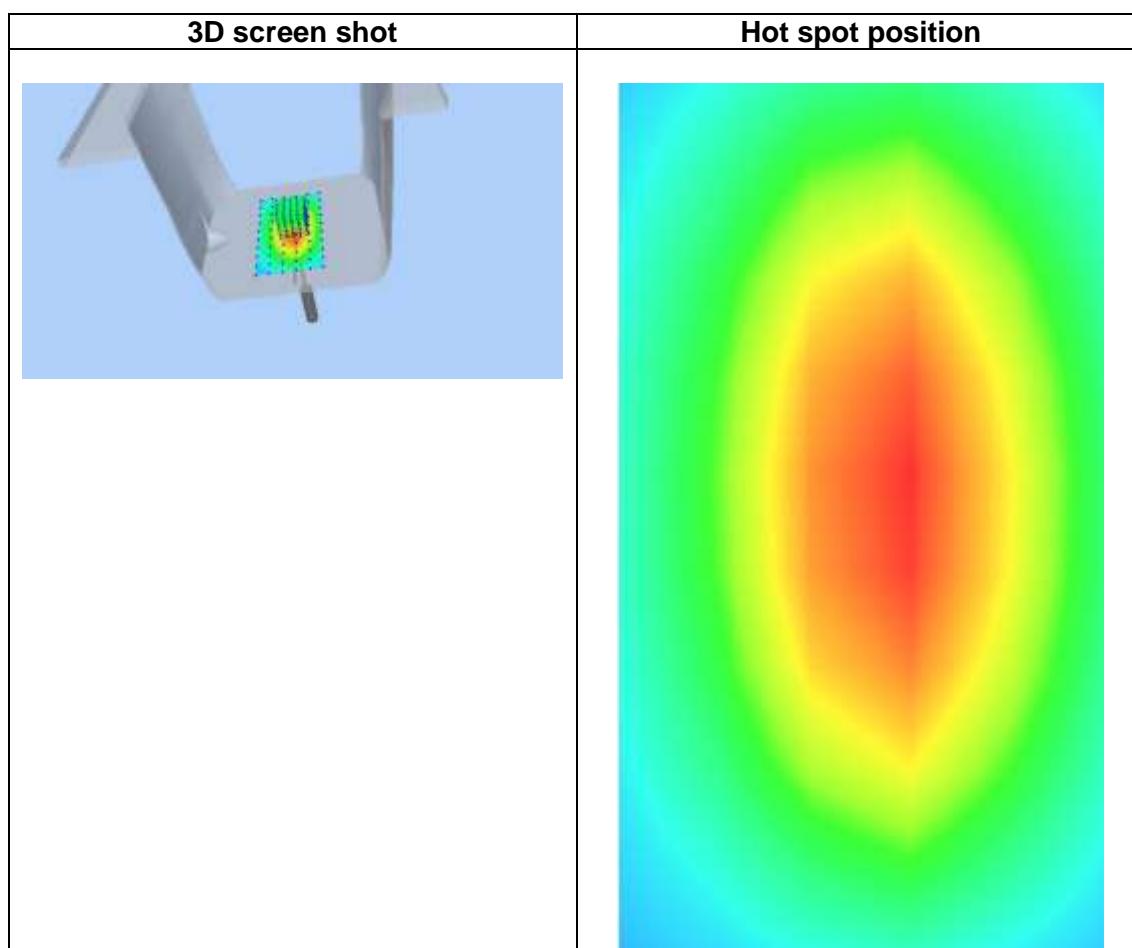
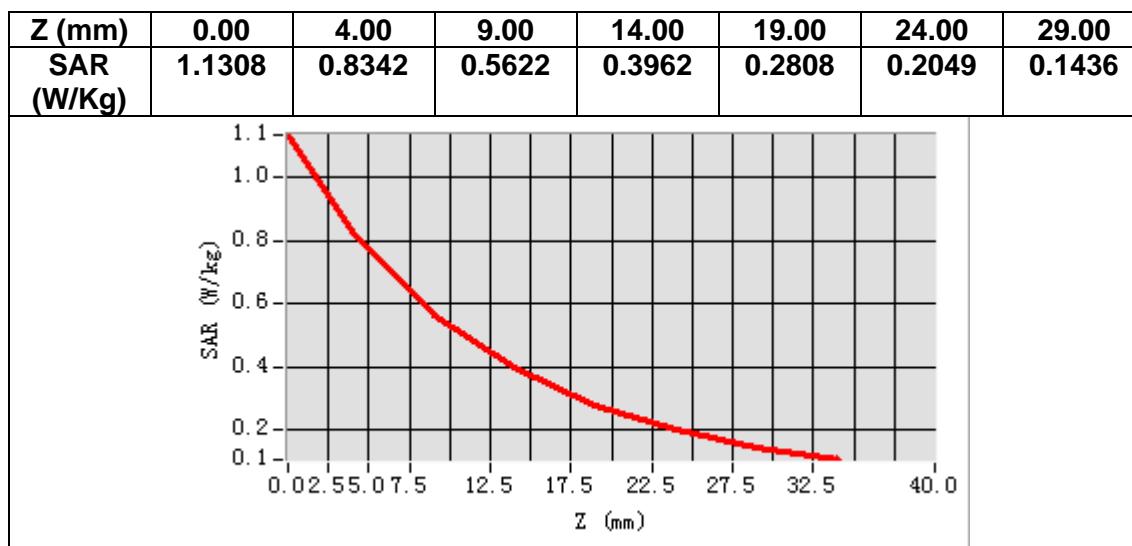
B. SAR Measurement Results

Frequency (MHz)	750.000000
Relative permittivity (real part)	41.017045
Relative permittivity (imaginary part)	21.616004
Conductivity (S/m)	0.900667
Variation (%)	0.120000



Maximum location: X=3.00, Y=1.00
SAR Peak: 1.13 W/kg

SAR 10g (W/Kg)	0.563320
SAR 1g (W/Kg)	0.846165



MEASUREMENT 2

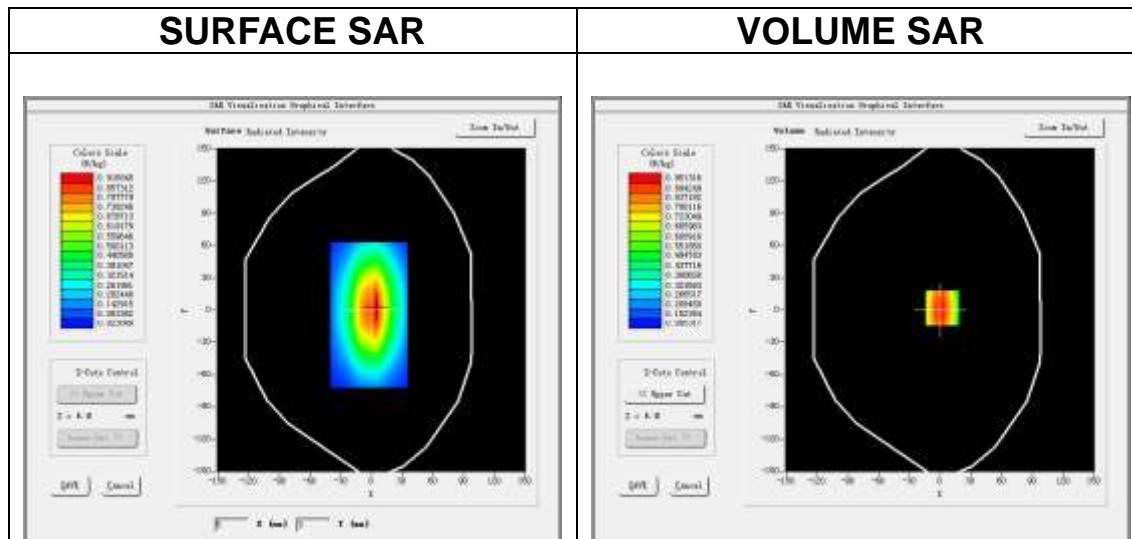
Date of measurement: 21/6/2024

A. Experimental conditions.

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

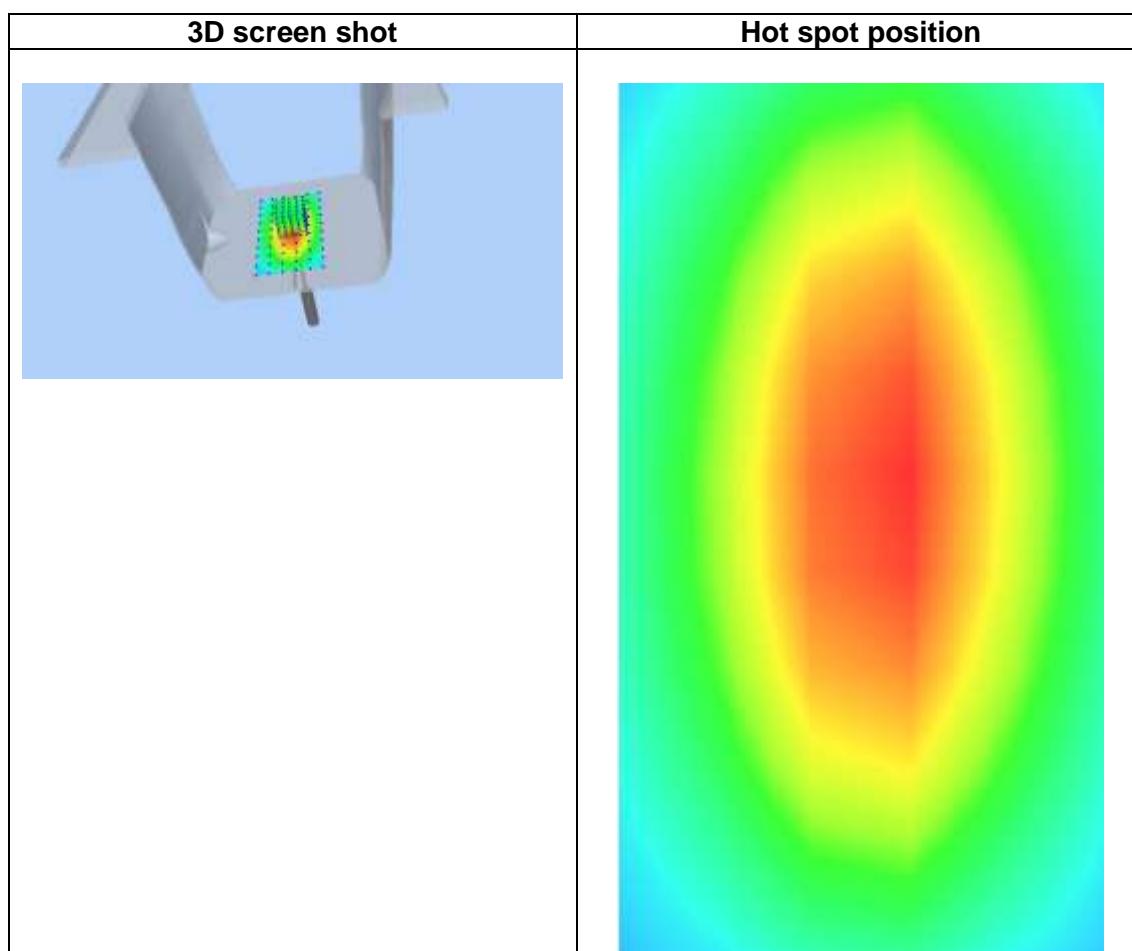
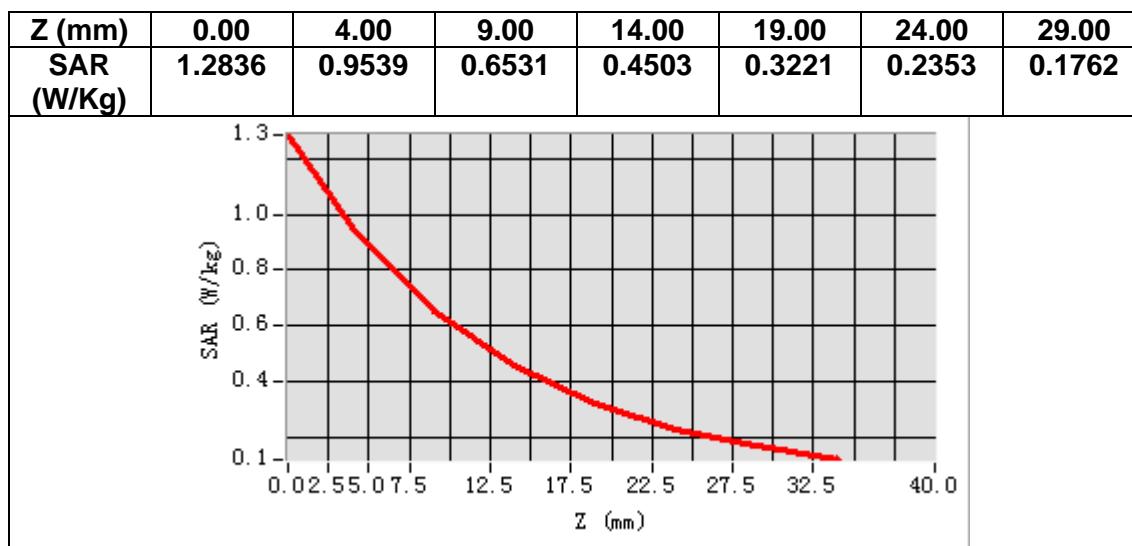
B. SAR Measurement Results

Frequency (MHz)	835.000000
Relative permittivity (real part)	41.660656
Relative permittivity (imaginary part)	19.667403
Conductivity (S/m)	0.912349
Variation (%)	4.000000



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

SAR 10g (W/Kg)	0.674332
SAR 1g (W/Kg)	0.929357



MEASUREMENT 3

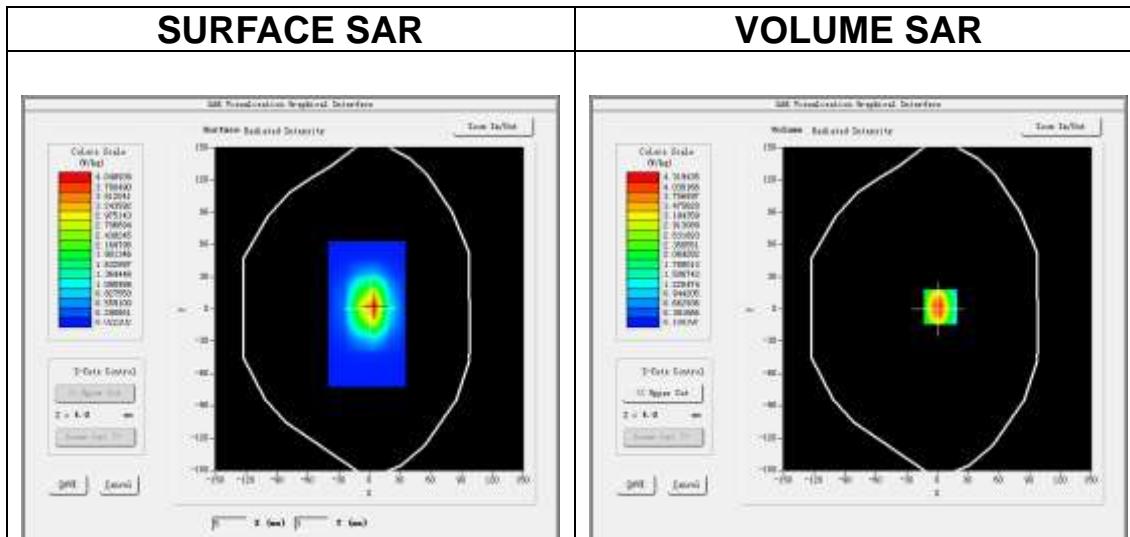
Date of measurement: 14/6/2024

A. Experimental conditions.

<u>Area Scan</u>	<u>$dx=15\text{mm}$ $dy=15\text{mm}$, $h= 5.00 \text{ mm}$</u>
<u>ZoomScan</u>	<u>$5\times 5\times 7$, $dx=8\text{mm}$ $dy=8\text{mm}$ $dz=5\text{mm}$</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW1800</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.45</u>

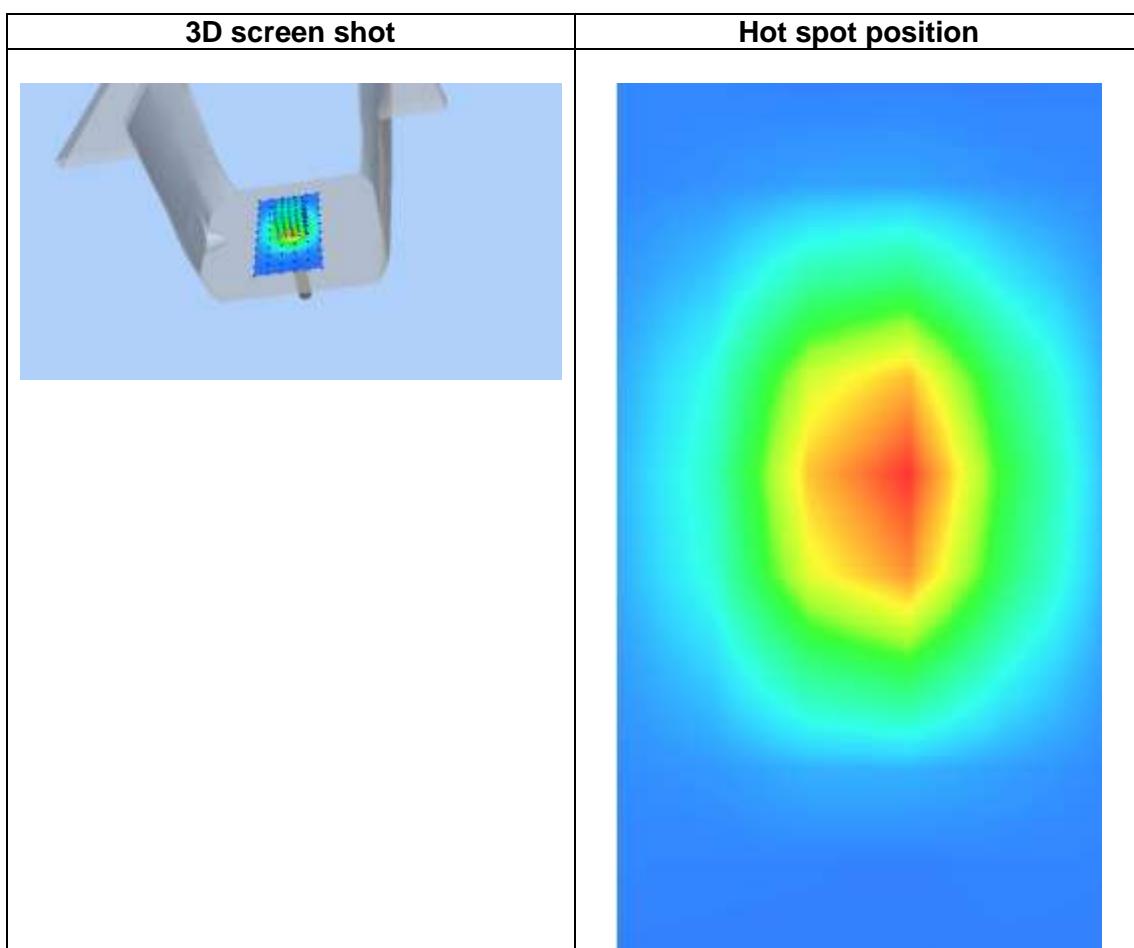
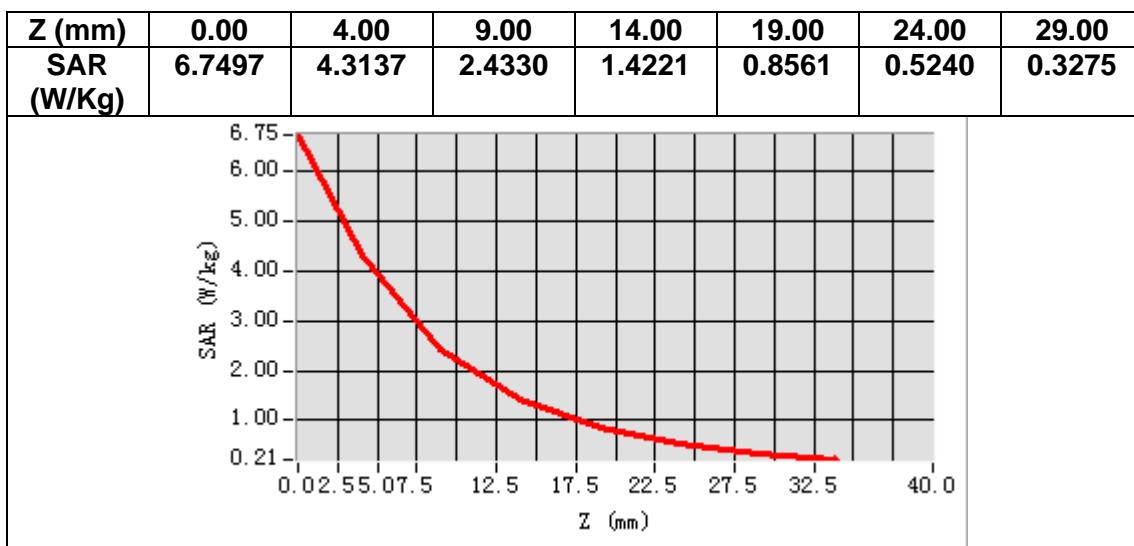
B. SAR Measurement Results

Frequency (MHz)	1800.000000
Relative permittivity (real part)	39.225225
Relative permittivity (imaginary part)	13.982463
Conductivity (S/m)	1.398246
Variation (%)	-2.210000



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

SAR 10g (W/Kg)	2.087020
SAR 1g (W/Kg)	3.704392



MEASUREMENT 4

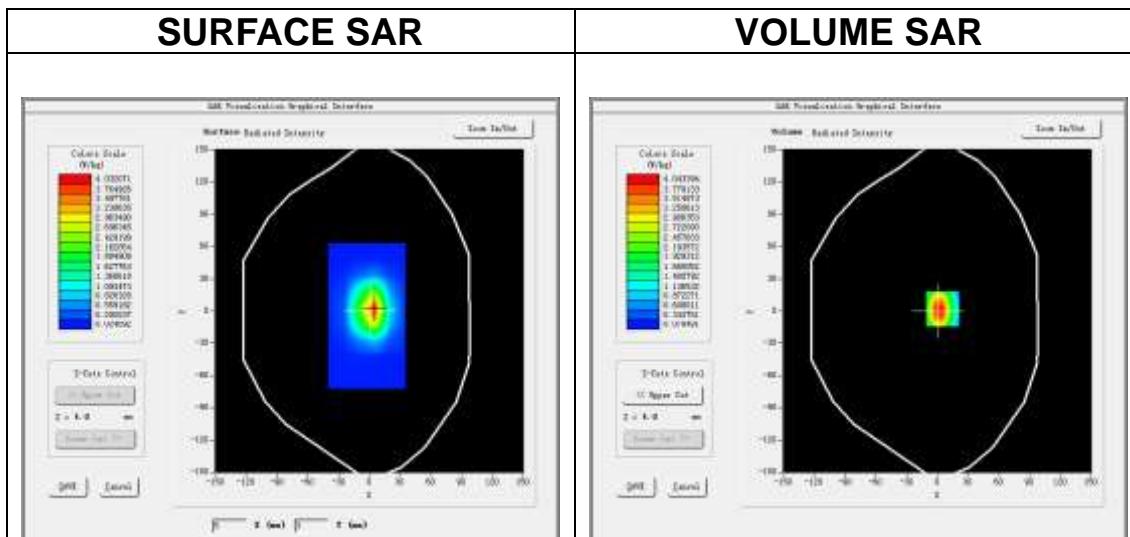
Date of measurement: 24/6/2024

A. Experimental conditions.

<u>Area Scan</u>	<u>$dx=15\text{mm}$ $dy=15\text{mm}$, $h= 5.00 \text{ mm}$</u>
<u>ZoomScan</u>	<u>$5\times 5\times 7, dx=8\text{mm}$ $dy=8\text{mm}$ $dz=5\text{mm}$</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.63</u>

B. SAR Measurement Results

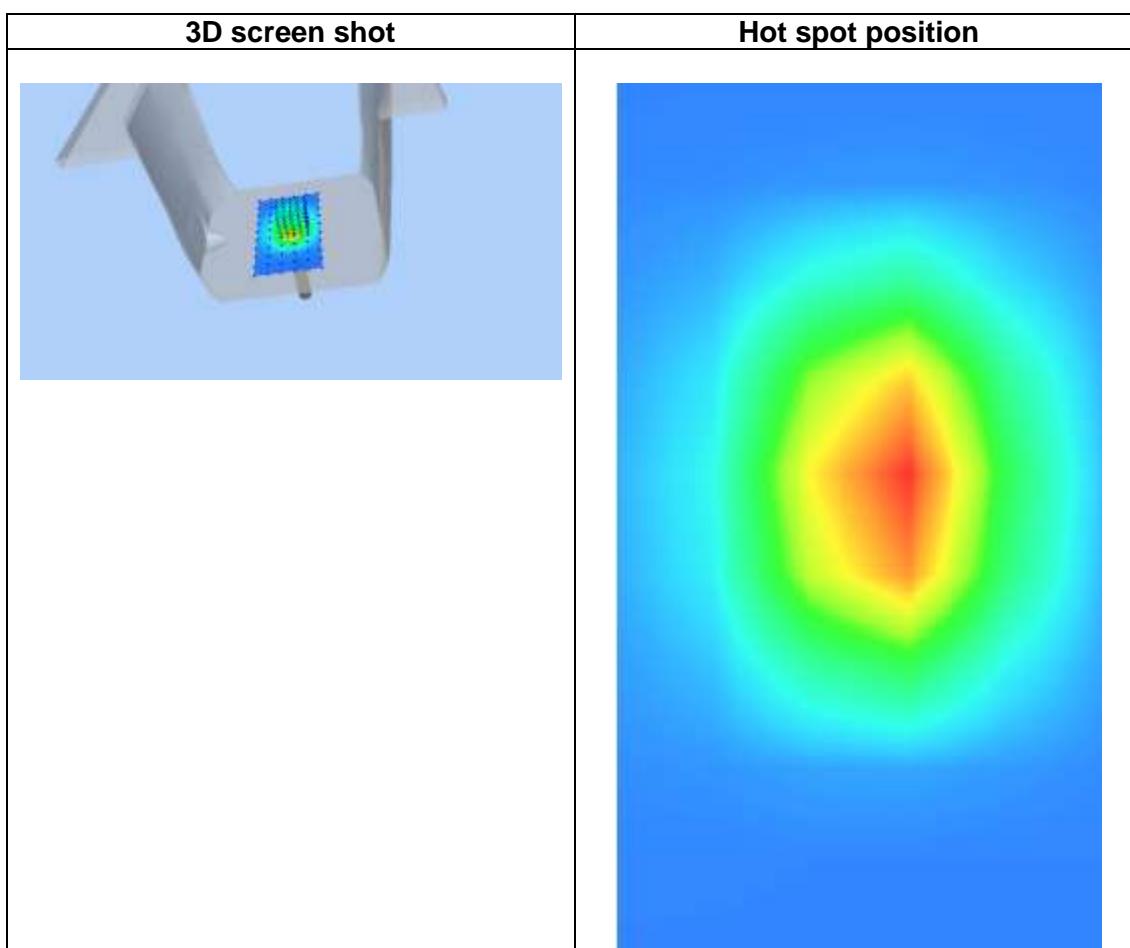
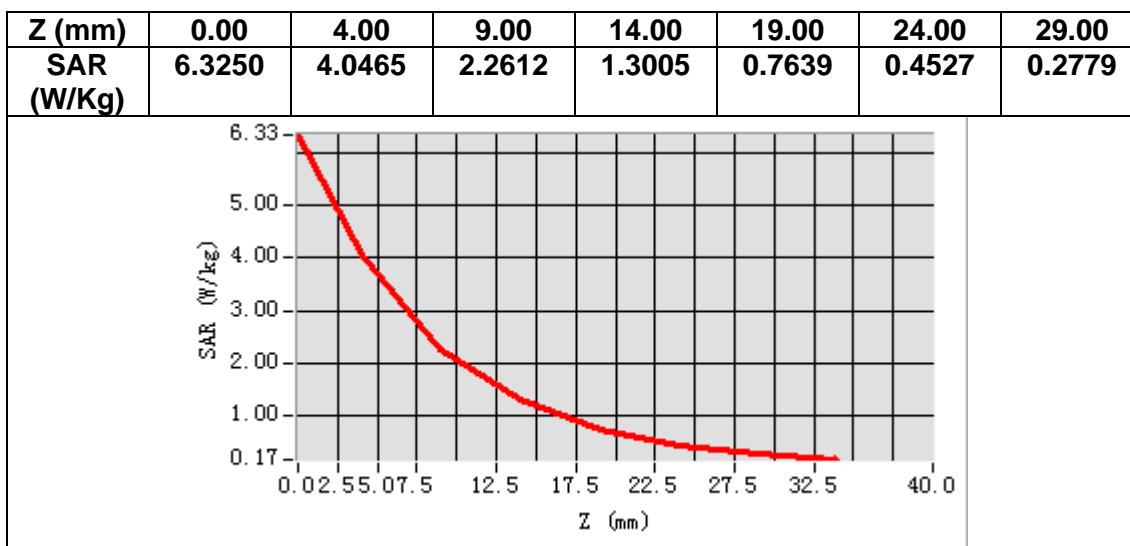
Frequency (MHz)	1900.000000
Relative permittivity (real part)	39.021189
Relative permittivity (imaginary part)	13.861700
Conductivity (S/m)	1.463179
Variation (%)	-3.830000



Maximum location: X=5.00, Y=2.00

SAR Peak: 6.70 W/kg

SAR 10g (W/Kg)	2.143072
SAR 1g (W/Kg)	4.308119



MEASUREMENT 5

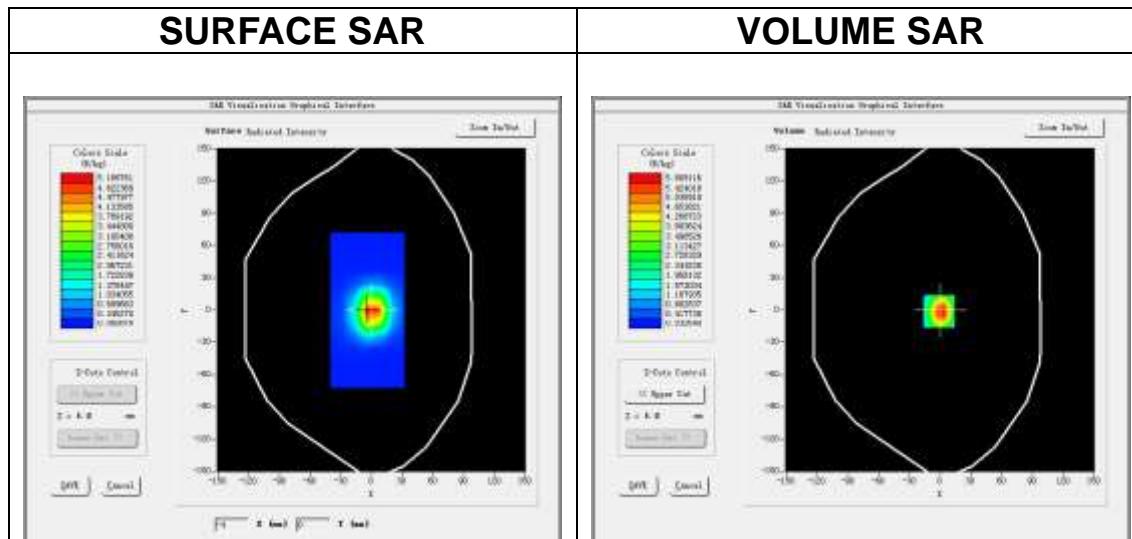
Date of measurement: 19/6/2024

A. Experimental conditions.

<u>Area Scan</u>	<u>$dx=12\text{mm}$ $dy=12\text{mm}$, $h= 5.00 \text{ mm}$</u>
<u>ZoomScan</u>	<u>$7\times7\times7, dx=5\text{mm}$ $dy=5\text{mm}$ $dz=5\text{mm}$</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW2450</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.85</u>

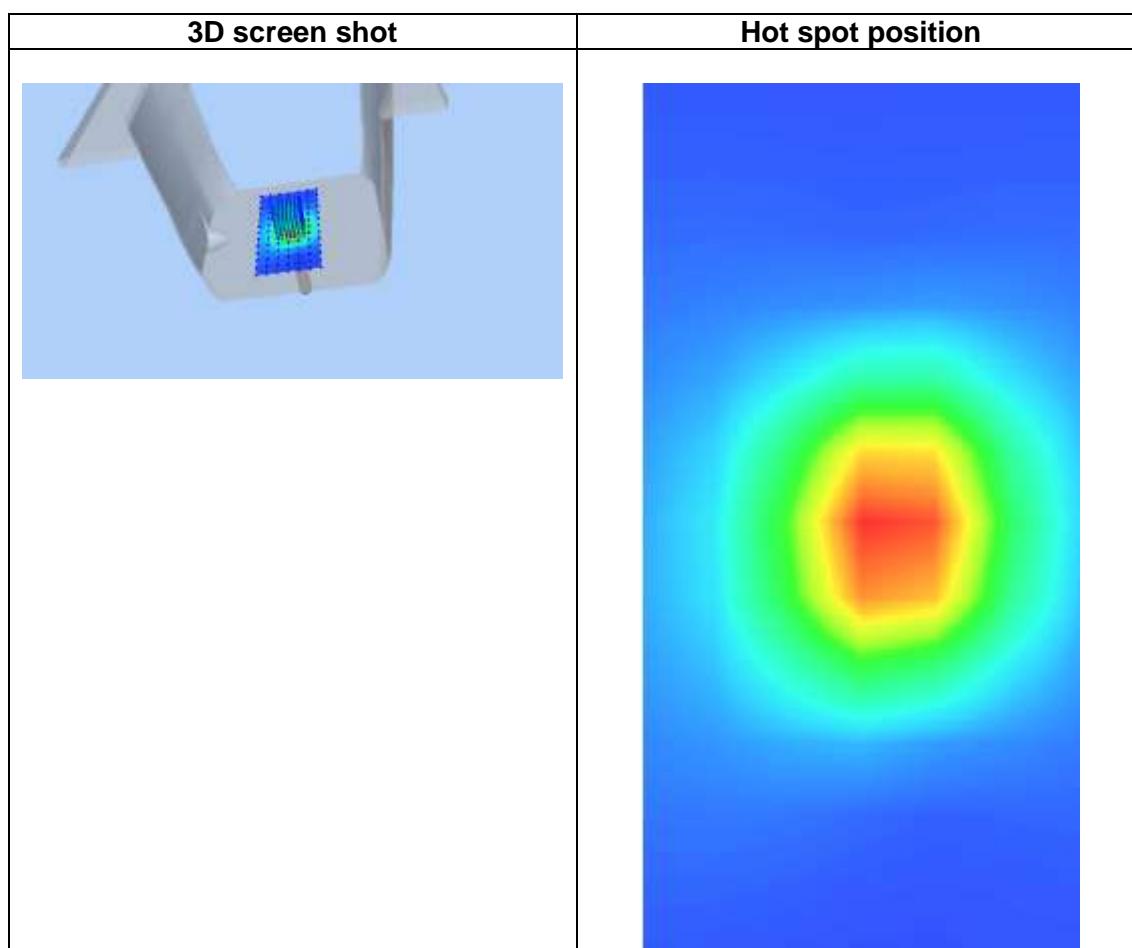
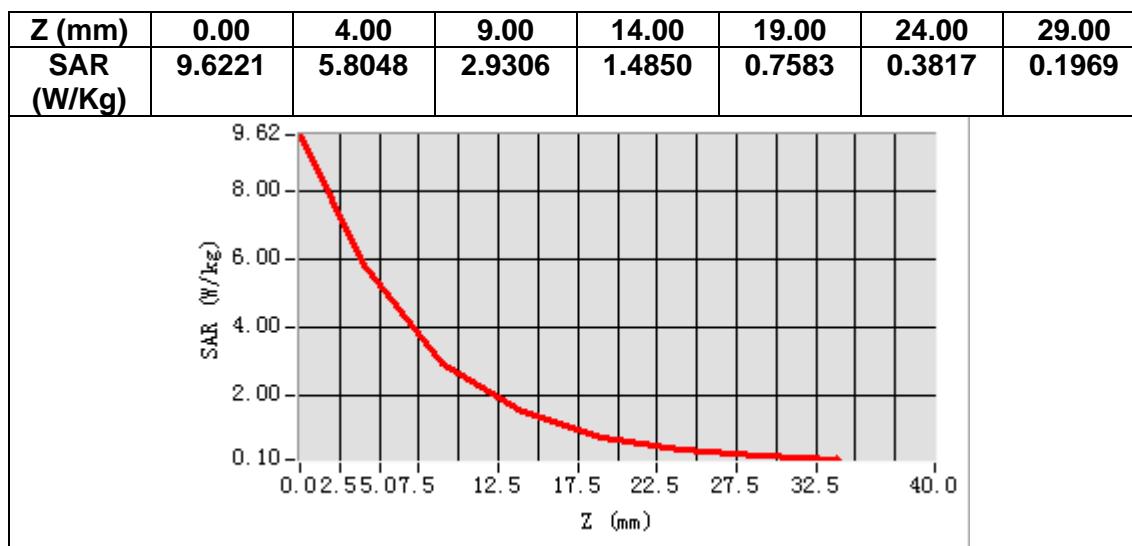
B. SAR Measurement Results

Frequency (MHz)	2450.000000
Relative permittivity (real part)	37.838986
Relative permittivity (imaginary part)	13.085579
Conductivity (S/m)	1.781093
Variation (%)	0.480000



Maximum location: X=-1.00, Y=-1.00
SAR Peak: 9.73 W/kg

SAR 10g (W/Kg)	2.493014
SAR 1g (W/Kg)	5.144277



MEASUREMENT 6

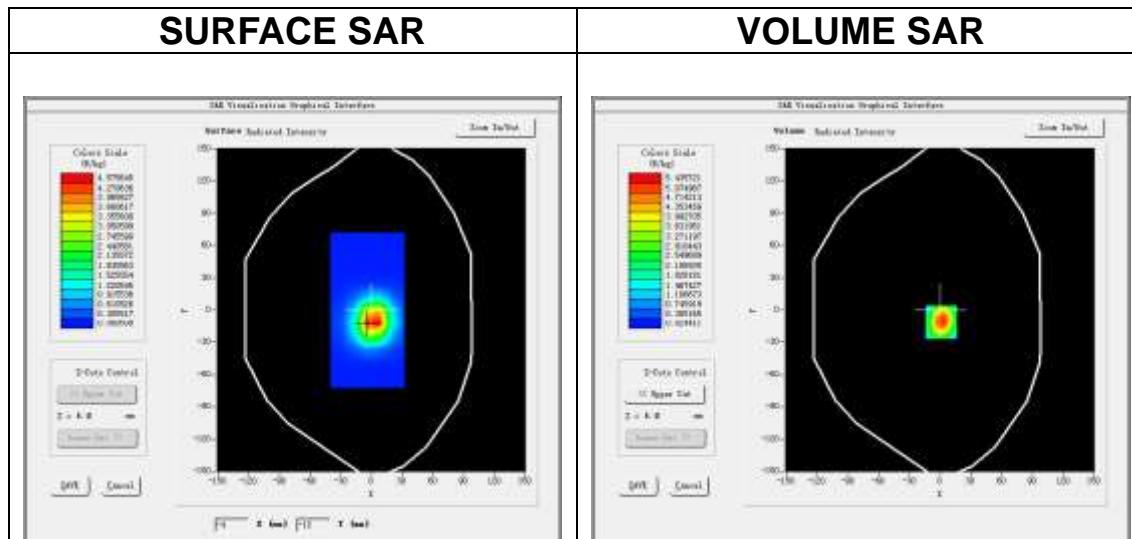
Date of measurement: 18/6/2024

A. Experimental conditions.

<u>Area Scan</u>	<u>$dx=12\text{mm}$ $dy=12\text{mm}$, $h= 5.00 \text{ mm}$</u>
<u>ZoomScan</u>	<u>$7\times7, dx=5\text{mm}$ $dy=5\text{mm}$ $dz=5\text{mm}$</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW2600</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.65</u>

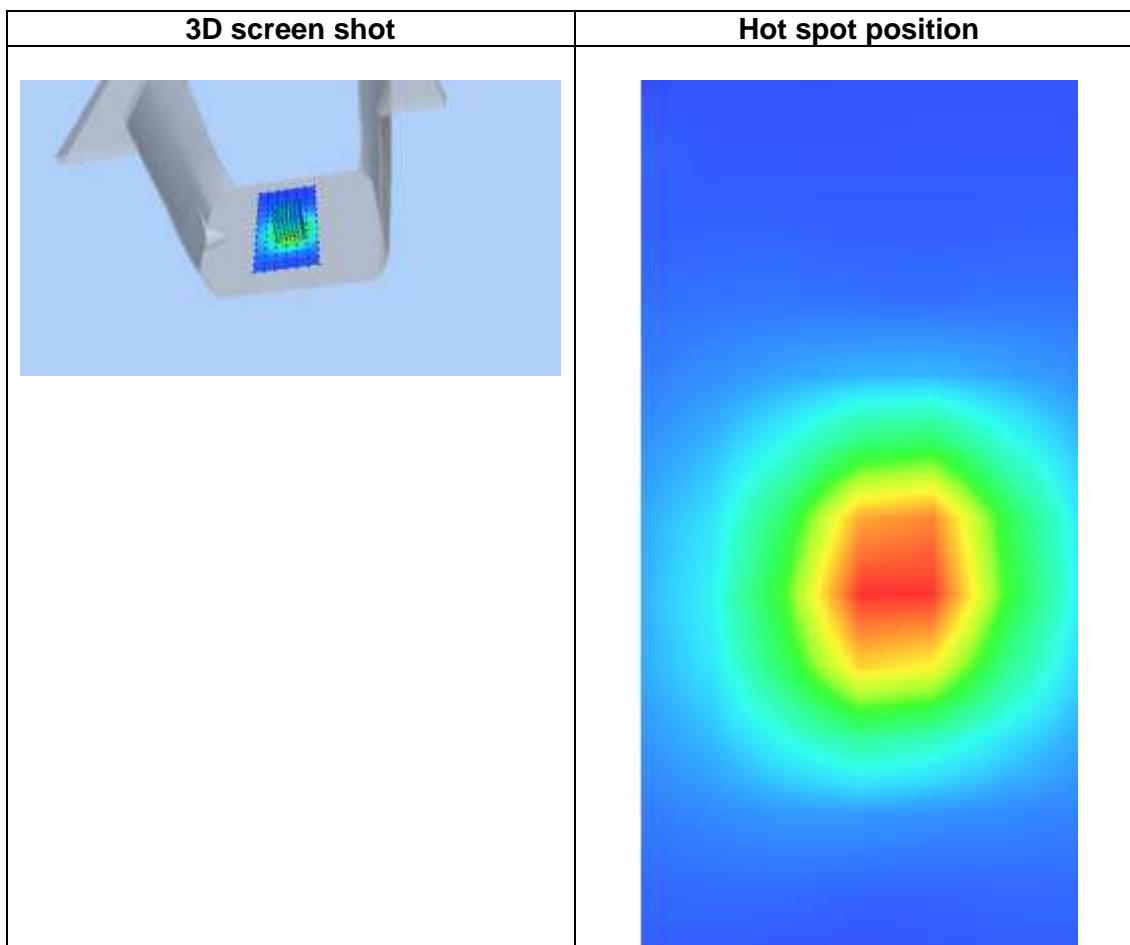
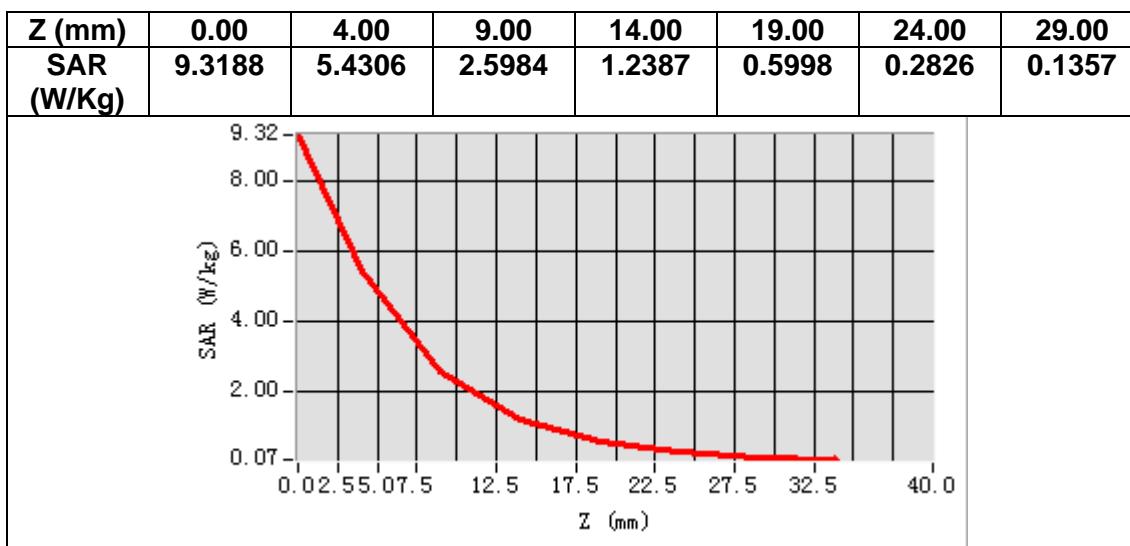
B. SAR Measurement Results

Frequency (MHz)	2600.000000
Relative permittivity (real part)	39.025963
Relative permittivity (imaginary part)	13.848930
Conductivity (S/m)	2.000401
Variation (%)	1.990000



Maximum location: $X=1.00$, $Y=-11.00$
SAR Peak: 9.29 W/kg

SAR 10g (W/Kg)	2.477137
SAR 1g (W/Kg)	5.622254



MEASUREMENT 7

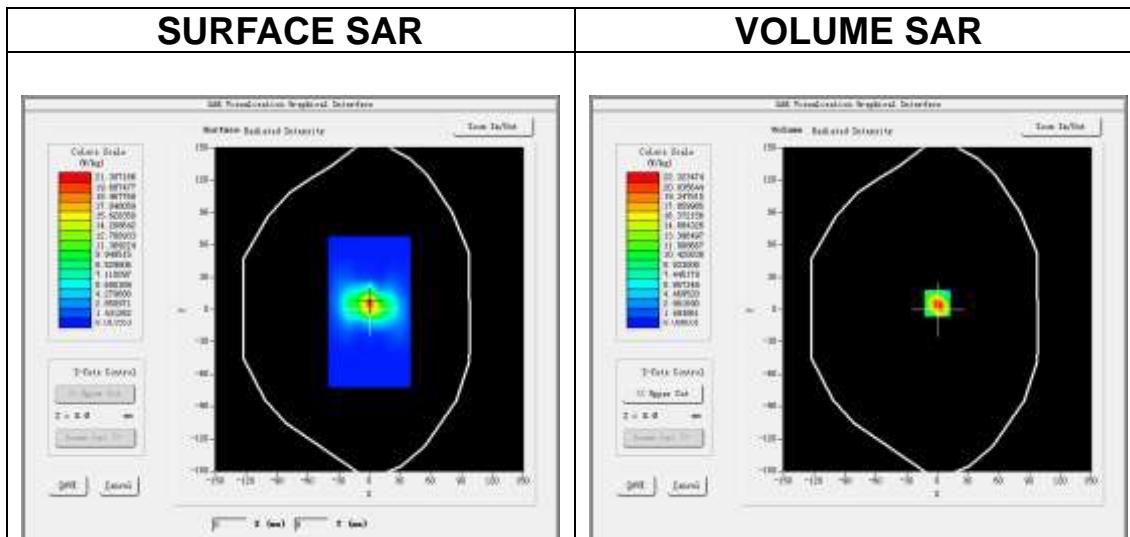
Date of measurement: 7/6/2024

A. Experimental conditions.

<u>Area Scan</u>	<u>$dx=10\text{mm}$ $dy=10\text{mm}$, $h= 2.00 \text{ mm}$</u>
<u>ZoomScan</u>	<u>$7\times7\times12, dx=4\text{mm}$ $dy=4\text{mm}$ $dz=2\text{mm}$</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW5200</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>
<u>ConvF</u>	<u>2.07</u>

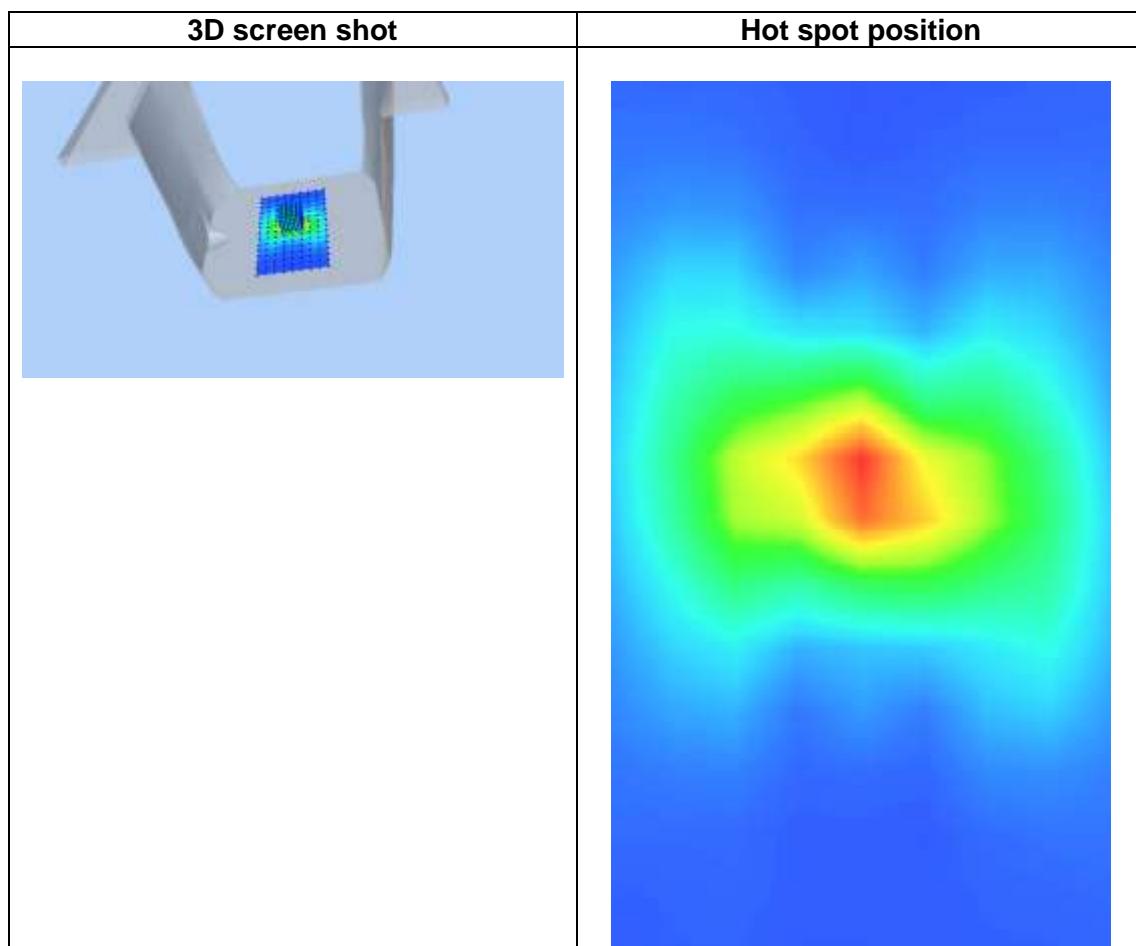
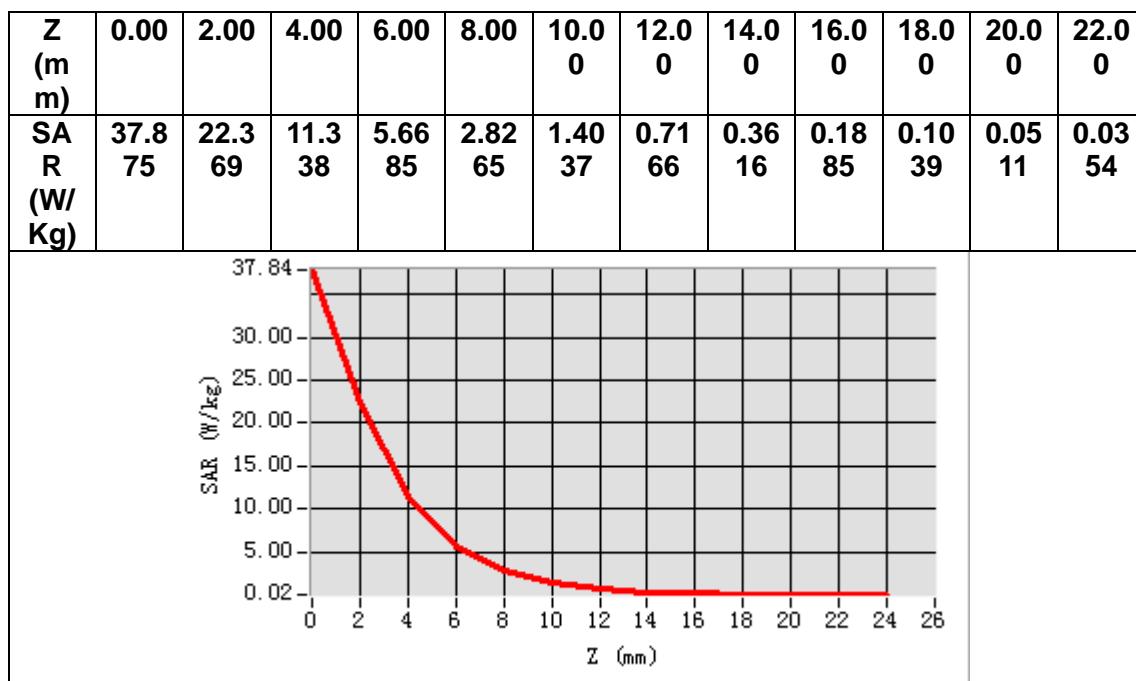
B. SAR Measurement Results

Frequency (MHz)	5200.000000
Relative permittivity (real part)	34.873427
Relative permittivity (imaginary part)	15.913428
Conductivity (S/m)	4.597213
Variation (%)	-0.960000



Maximum location: X=0.00, Y=6.00
SAR Peak: 40.06 W/kg

SAR 10g (W/Kg)	5.149283
SAR 1g (W/Kg)	17.707335



MEASUREMENT 8

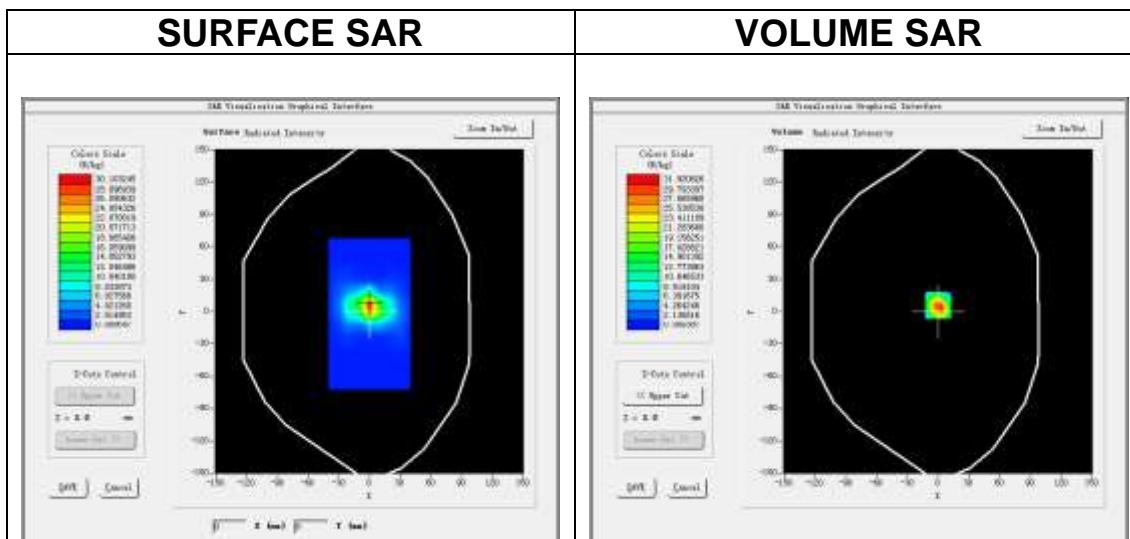
Date of measurement: 6/6/2024

A. Experimental conditions.

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

B. SAR Measurement Results

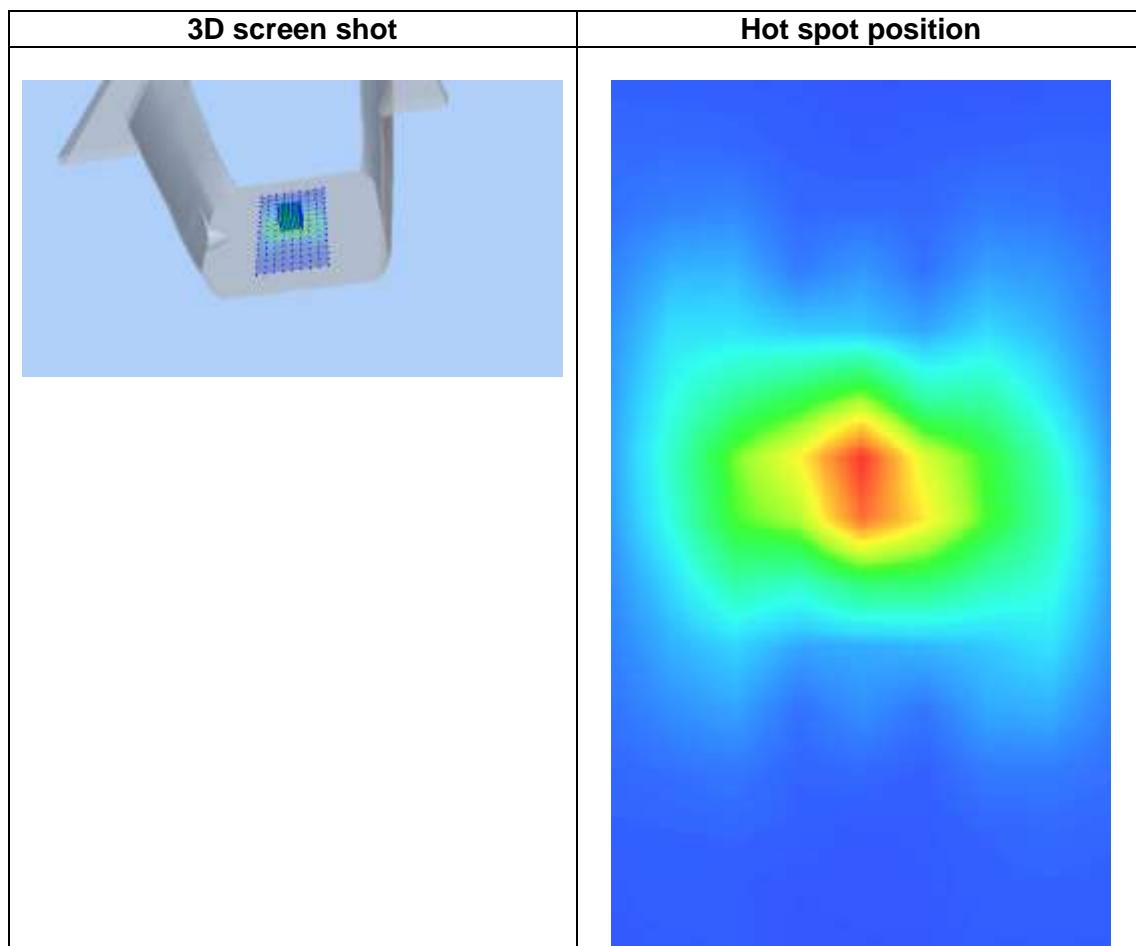
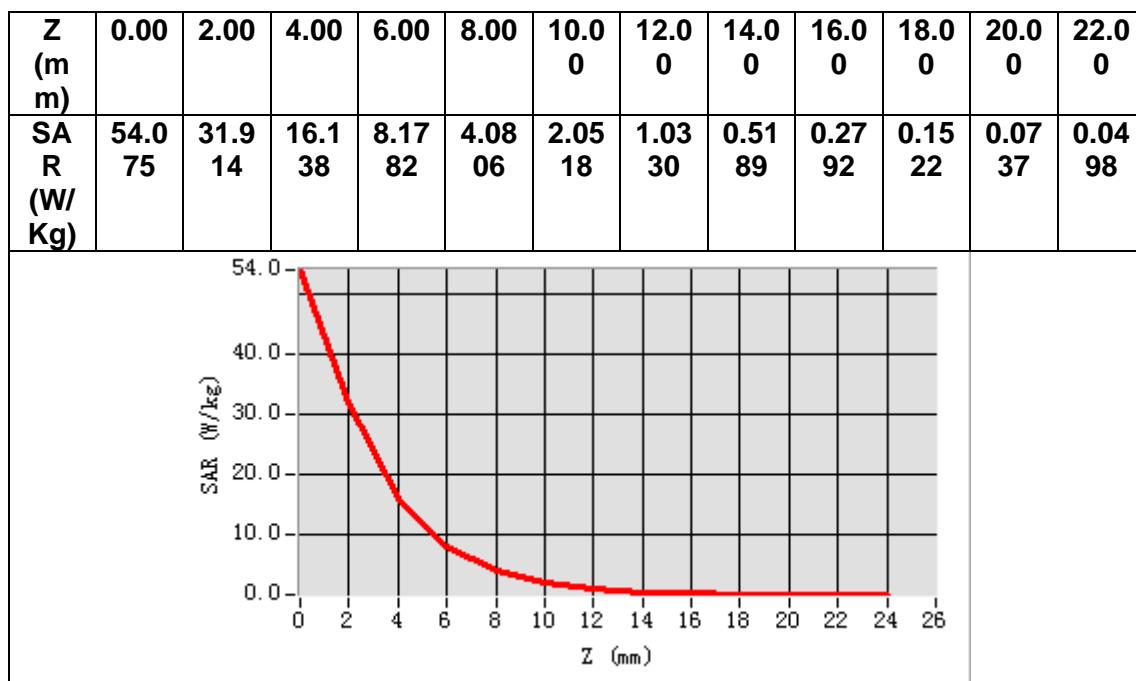
Frequency (MHz)	5800.000000
Relative permittivity (real part)	34.304577
Relative permittivity (imaginary part)	16.300199
Conductivity (S/m)	5.252286
Variation (%)	3.510000



Maximum location: X=0.00, Y=6.00

SAR Peak: 57.37 W/kg

SAR 10g (W/Kg)	5.606309
SAR 1g (W/Kg)	18.351288



13. Appendix C. Plots of High SAR Measurement

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MEASUREMENT 2 GSM 850 Body

MEASUREMENT 3 GSM 1900 Head

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MEASUREMENT 8 WCDMA Band 4 Body

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MEASUREMENT 10 WCDMA Band 5 Body

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MEASUREMENT 12 WLAN 5.8G Head

MEASUREMENT 13 WLAN 5.2G Body

MEASUREMENT 14 WLAN 5.8G Body

MEASUREMENT 15 WLAN 2.4G Head

MEASUREMENT 16 WLAN 2.4G Body

MEASUREMENT 17 LTE Band 2 Head

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 25 LTE Band 12 Head

MEASUREMENT 26 LTE Band 12 Body

MEASUREMENT 27 LTE Band 17 Head

MEASUREMENT 28 LTE Band 17 Body

MEASUREMENT 29 LTE Band 38 Head

MEASUREMENT 30 LTE Band 38 Body

MEASUREMENT 31 LTE Band 41 Head

MEASUREMENT 32 LTE Band 41 Body

MEASUREMENT 1

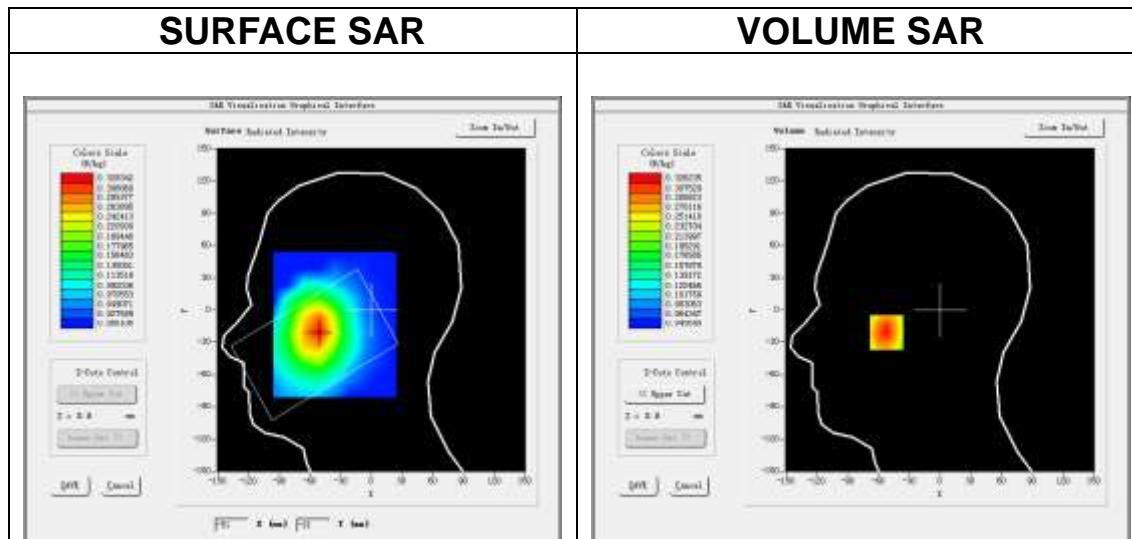
Date of measurement: 21/6/2024

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>GSM850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>TDMA (Crest factor: 2.0)</u>
<u>ConvF</u>	<u>2.32</u>

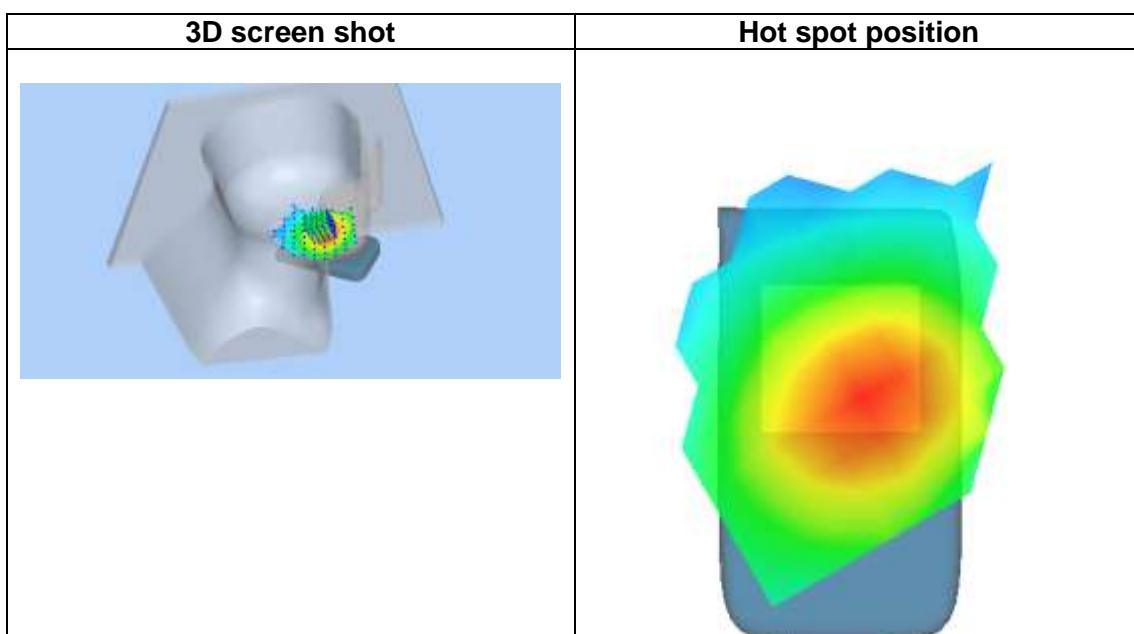
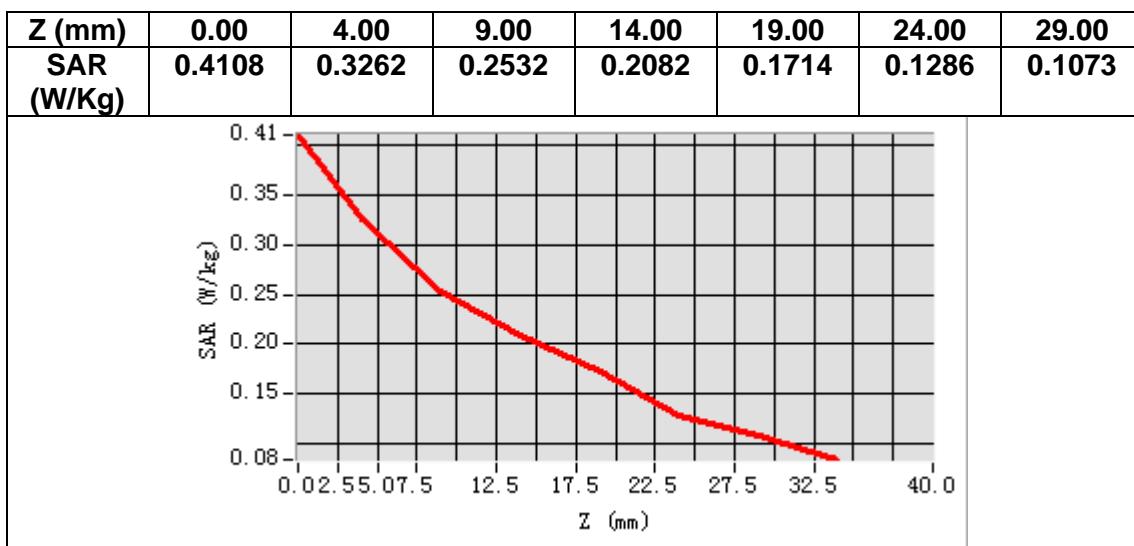
B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative permittivity (real part)	41.669735
Relative permittivity (imaginary part)	19.674603
Conductivity (S/m)	0.914213
Variation (%)	-2.320000



Maximum location: X=-52.00, Y=-20.00
SAR Peak: 0.42 W/kg

SAR 10g (W/Kg)	0.230455
SAR 1g (W/Kg)	0.316037



MEASUREMENT 2

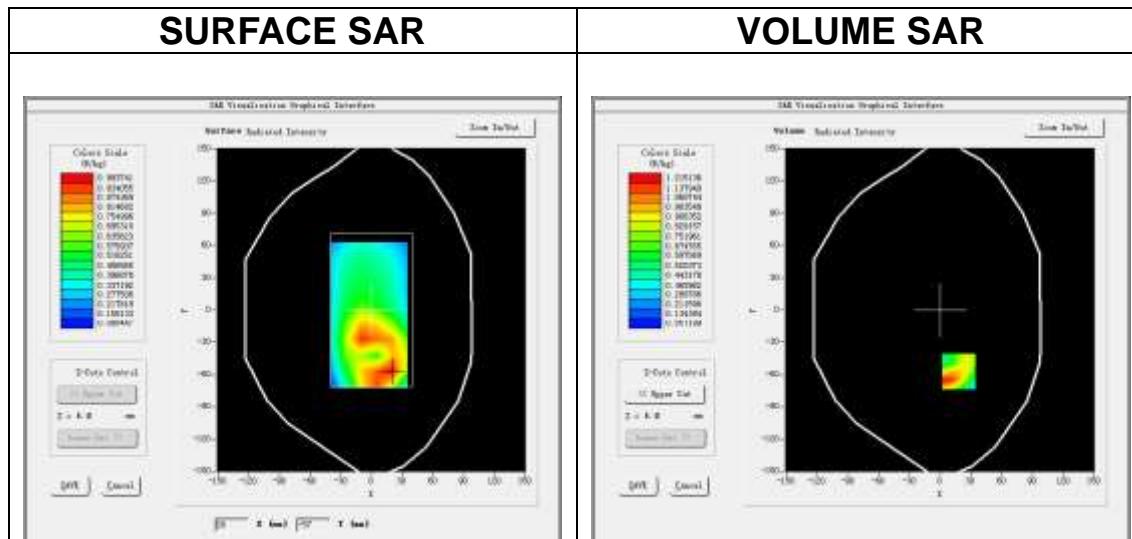
Date of measurement: 21/6/2024

A. Experimental conditions.

<u>Area Scan</u>	<u>$dx=15\text{mm}$ $dy=15\text{mm}$, $h= 5.00 \text{ mm}$</u>
<u>ZoomScan</u>	<u>$5\times 5\times 7, dx=8\text{mm}$ $dy=8\text{mm}$ $dz=5\text{mm}$</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>High</u>
<u>Signal</u>	<u>TDMA (Crest factor: 2.0)</u>
<u>ConvF</u>	<u>2.32</u>

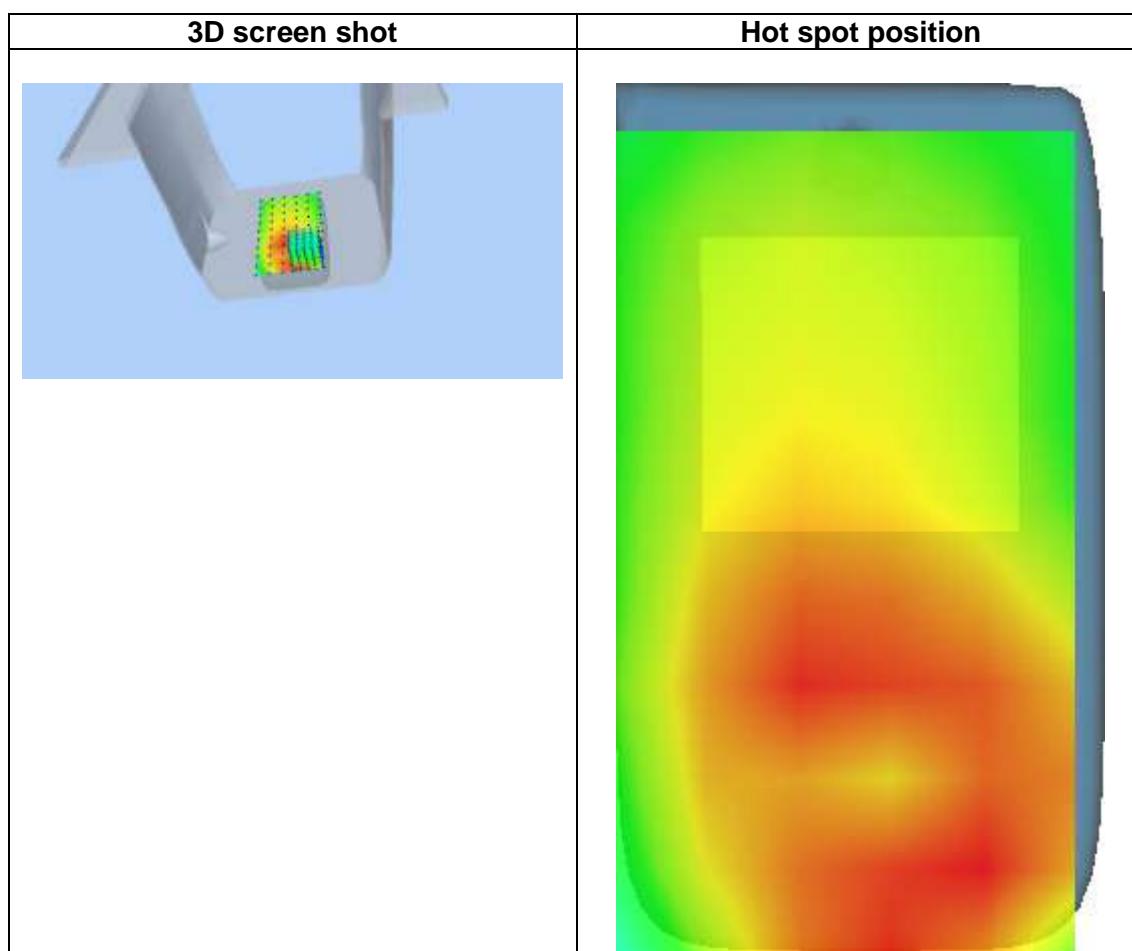
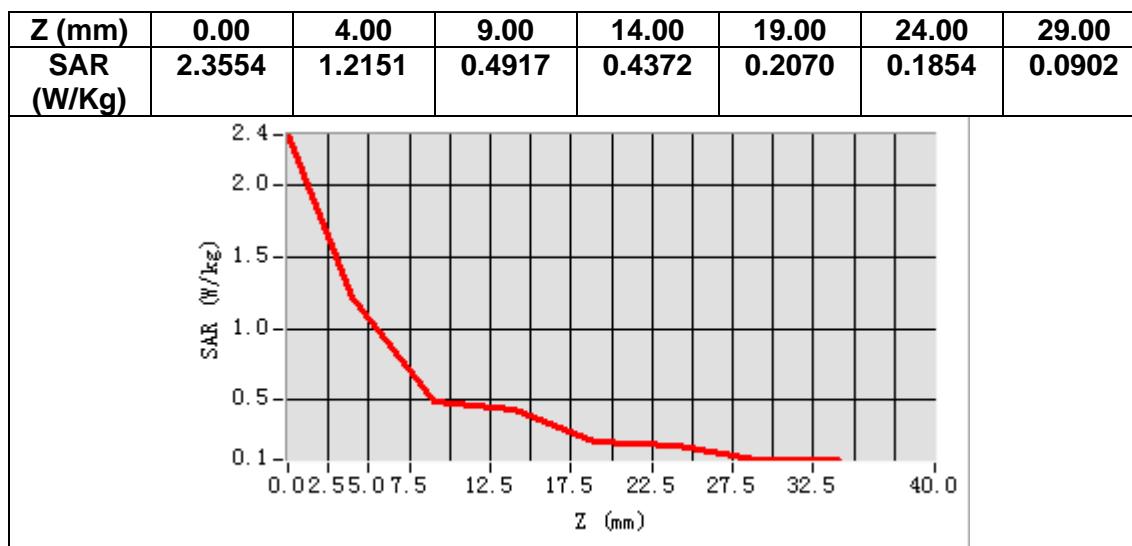
B. SAR Measurement Results

Frequency (MHz)	848.800000
Relative permittivity (real part)	41.470554
Relative permittivity (imaginary part)	19.669163
Conductivity (S/m)	0.927510
Variation (%)	-1.310000



Maximum location: X=18.00, Y=-57.00
SAR Peak: 1.88 W/kg

SAR 10g (W/Kg)	0.615662
SAR 1g (W/Kg)	1.127656



MEASUREMENT 3

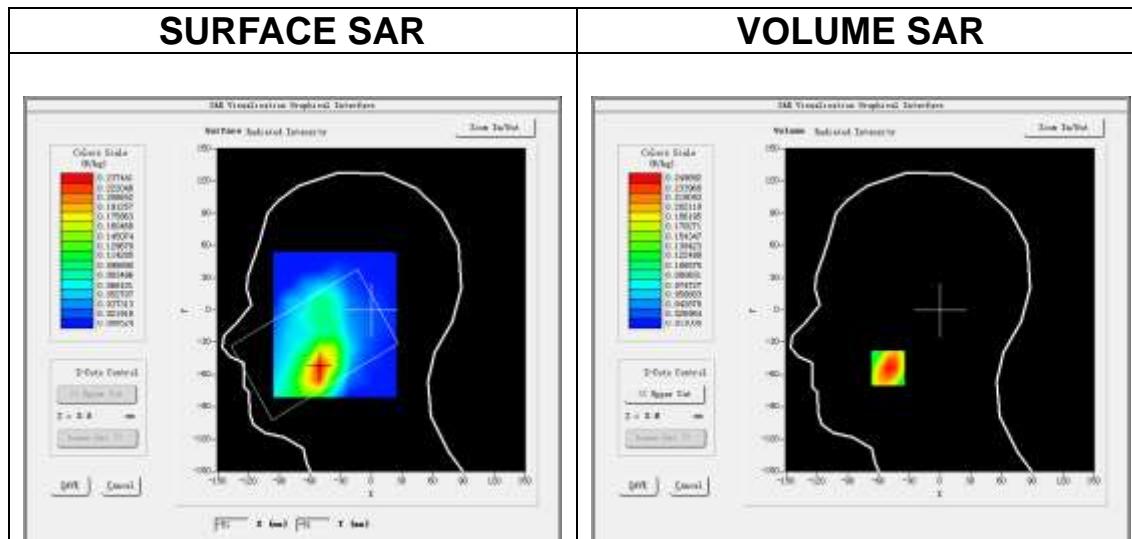
Date of measurement: 24/6/2024

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>GSM1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>TDMA (Crest factor: 2.7)</u>
<u>ConvF</u>	<u>2.63</u>

B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	39.096489
Relative permittivity (imaginary part)	13.909600
Conductivity (S/m)	1.452780
Variation (%)	-2.020000



Maximum location: X=-51.00, Y=-54.00
SAR Peak: 0.37 W/kg

SAR 10g (W/Kg)	0.146853
SAR 1g (W/Kg)	0.247898