

FCC SAR EVALUATION REPORT

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

Product Name: Portable 5G Router

Model No.: AWM55

Serial Model: N/A

Brand Name: N/A

Report No.: AiTSZ-250422102FW6

FCC ID: 2AOII-AWM55

Prepared for

WGI Telecom Inc

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Prepared by

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TEST RESULT CERTIFICATION

Applicant's name : WGI Telecom Inc
Address : 1786 N Commerce Pkwy Weston, FL 33326, U.S.

Manufacturer's Name : WGI Telecom Inc
Address : 1786 N Commerce Pkwy Weston, FL 33326, U.S.

Product description

Product name : Portable 5G Router

Trademark : N/A

Model and/or type reference : AWM55

Serial Model..... : N/A

FCC 47 CFR Part 2(2.1093)

Standards : IEEE Std 1528-2013

Published RF exposure KDB procedures

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

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Test Sample Number..... : AiTSZ-250422102-1

Date of Test

Date (s) of performance of tests..... : Apr. 23, 2025 ~ May 28, 2025

Date of Issue..... : May 30, 2025

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

Reviewed by: Ken Zou
Ken Zou

Approved by: Jack Li
Jack Li

※ ※ Revision History ※ ※

REV.	DESCRIPTION	ISSUED DATE	REMARK
Rev.1.0	Initial Test Report Release	May 30, 2025	Jack Li

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1. General Information

1.1. RF exposure limits

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

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

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

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

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

Occupational/Controlled Environments:

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

General Population/Uncontrolled Environments:

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

NOTE
TRUNK LIMIT
1.6 W/kg
APPLIED TO THIS EUT

1.2. Statement of Compliance

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

Band	Max SAR Value Reported(W/kg)	
	1-g Body&Hotspot (Separation distance of 0mm)	Max SAR Summation
WCDMA Band II ANT3	0.542	Body&Hotspot: 1.545
WCDMA Band V ANT0	0.324	
LTE band 2 ANT3	0.515	
LTE band 4 ANT3	0.541	
LTE band 5 ANT0	0.323	
LTE band 7 ANT5	0.352	
LTE band 12 ANT0	0.358	
LTE band 17 ANT0	0.376	
LTE band 41 ANT5	0.440	
NR n77 ANT6	0.269	
2.4GHz WLAN ANT0	0.247	
2.4GHz WLAN ANT1	0.266	
5.2GHz WLAN ANT0	0.522	
5.2GHz WLAN ANT1	0.471	
5.8GHz WLAN ANT0	0.484	
5.8GHz WLAN ANT1	0.519	

NOTE: The Max SAR Summation is calculated based on the same configuration and test position.

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

1.3. EUT Description

Device Information			
Product Name	Portable 5G Router		
Model Name	AWM55		
Family Model	N/A		
Model Difference	N/A		
Device Phase	Identical Prototype		
Exposure Category	General population / Uncontrolled environment		
Antenna Type	FPC Antenna		
Power rating:	DC 3.85V 5000mAh 19.25Wh by Rechargeable Li-ion battery		
Hardware version	N/A		
Software version	N/A		
Device Operating Configurations			
Supporting Mode(s)	WCDMABand2/5,LTEBand2/4/5/7/12/17/41, NR SA n77, WLAN 2.4G/5.2G/5.8G		
Test Modulation	WCDMA(QPSK), LTE(QPSK/16QAM), NR(DFT-s-OFDM:PI/2 BPSK/QPSK/16-QAM/64QAM/256QAM CP-OFDM: QPSK/16-QAM/64QAM/256QAM) , WLAN(DSSS/OFDM)		
Device Class	B		
Operating Frequency Range(s)	Band	Tx (MHz)	Rx (MHz)
	WCDMA Band 2	1850-1910	1930-1990
	WCDMA Band 5	824-849	869-894
	LTE Band 2	1850-1910	1930-1990
	LTE Band 4	1710-1755	2110-2155
	LTE Band 5	824-849	869-894
	LTE Band 7	2500-2570	2620-2690
	LTE Band 12	699-716	729-746
	LTE Band 17	704-716	734-746
	LTE Band 41	2555-2655	
	NR n77	3450-3550	
	WLAN 2.4G	2412-2462	
	WLAN 5.2G	5180-5240	
	WLAN 5.8G	5745-5825	
Power Class	3, tested with power control “all 1”(WCDMA Band 2)		
	3, tested with power control “all 1”(WCDMA Band 5)		
	3, tested with power control all Max.(LTE Band 2)		
	3, tested with power control all Max.(LTE Band 4)		
	3, tested with power control all Max.(LTE Band 5)		
	3, tested with power control all Max.(LTE Band 7)		

	3, tested with power control all Max.(LTE Band 12)
	3, tested with power control all Max.(LTE Band 17)
	3, tested with power control all Max.(LTE Band 41)
	3, tested with power control all Max.(NR n77)

1.4. Test specification(s)

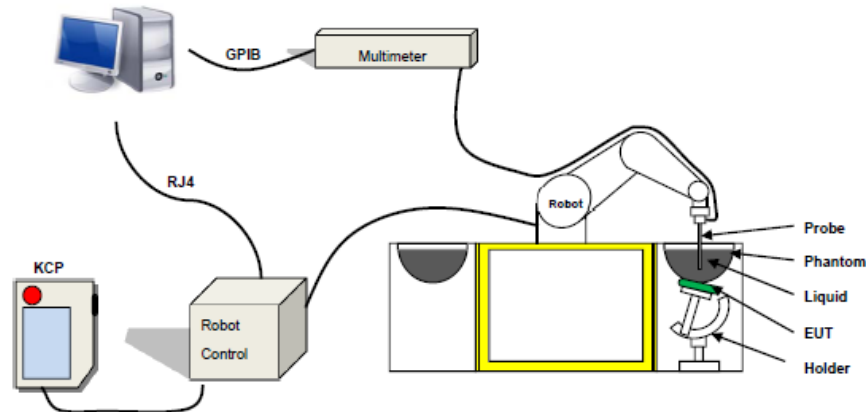
FCC 47 CFR Part 2(2.1093)
IEEE Std 1528-2013
KDB 865664 D01 SAR measurement 100 MHz to 6 GHz
KDB 865664 D02 RF Exposure Reporting
KDB 447498 D01 General RF Exposure Guidance
KDB 248227 D01 802.11 Wi-Fi SAR
KDB 941225 D01 3G SAR Procedures
KDB 941225 D05 SAR for LTE Devices
KDB 941225 D06 Hotspot SAR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

1.5. Ambient Condition

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

2. SAR Measurement System

2.1. SATIMO SAR Measurement Set-up Diagram



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

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

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

2.2. Robot

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



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

2.3. Probe

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

For the measurements the Specific Dosimetric E-Field Probe EPGO 0523-403 with following specifications is used.



- Probe Length: 330 mm
- Length of Individual Dipoles: 2 mm
- Maximum external diameter: 8 mm
- Probe Tip External Diameter: 2.5 mm
- Distance between dipole/probe extremity: 1 mm
- Dynamic range: 0.01-100 W/kg
- Probe linearity: 3%
- Axial Isotropy: < 0.10 dB
- Spherical Isotropy: < 0.10 dB
- Calibration range: 150 MHz to 6 GHz for head & body simulating liquid.
- Angle between probe axis (evaluation axis) and surface normal line: less than 30°

2.3.1. E-Field Probe Calibration

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

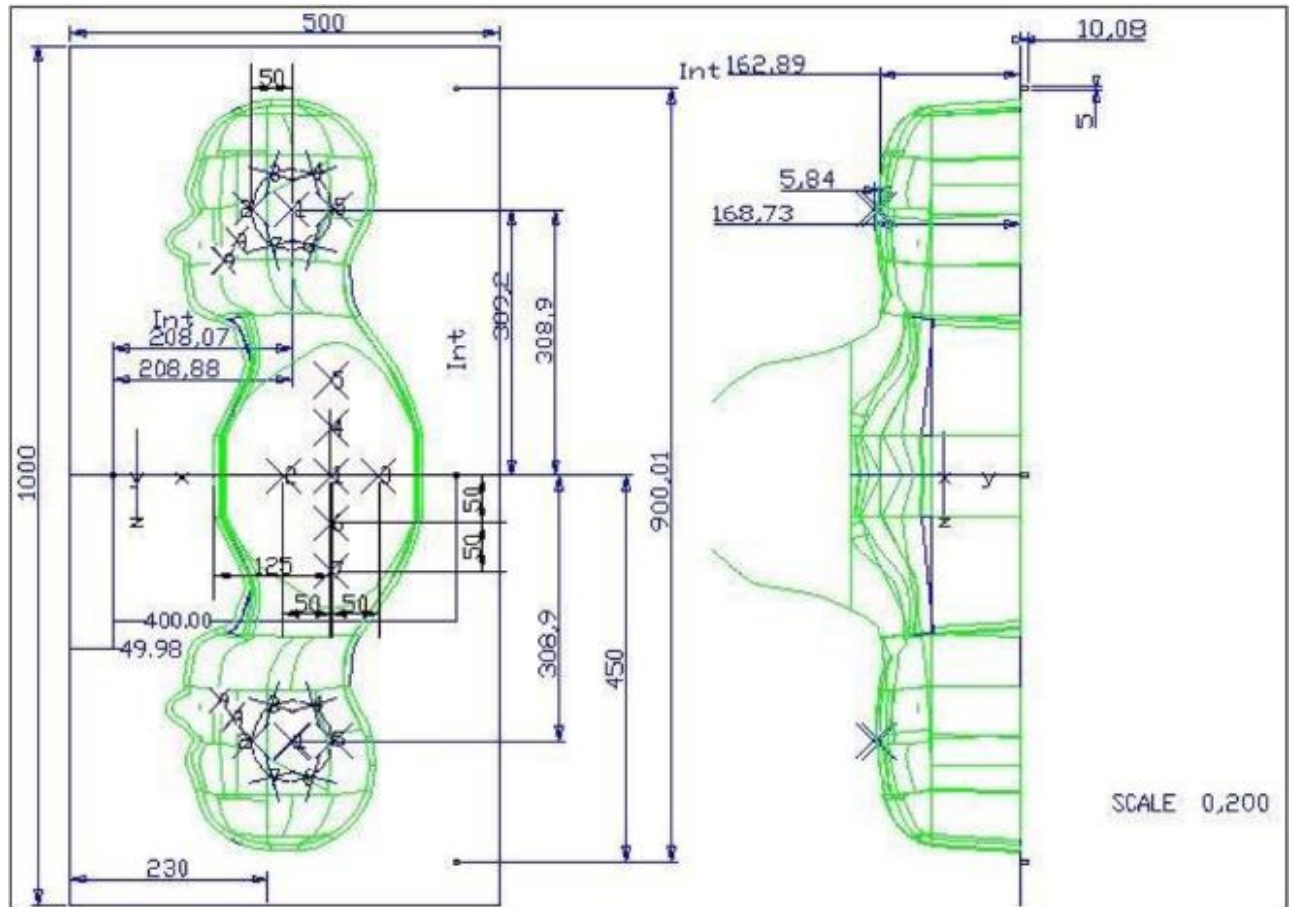
2.4. Phantoms

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



SAM

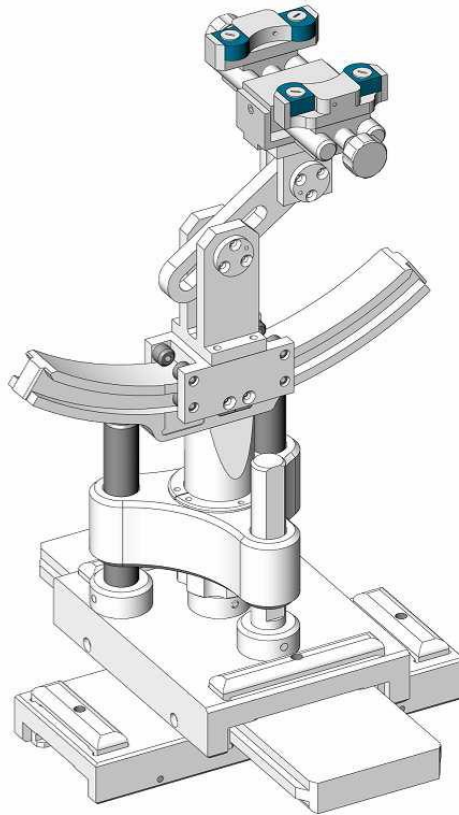
2.5. Technical Data



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

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

2.6. Device Holder



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

2.7. Test Equipment List

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

Devices used during the test described are marked ☒

	Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
					Last Cal.	Due Date
☒	MVG	E FIELD PROBE	SSE2	EPGO 0523-403	Sep. 11, 2024	Sep. 10, 2025
☒	MVG	750 MHz Dipole	SID750	SN 03/15 DIP 0G750-355	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	835 MHz Dipole	SID835	SN 03/15 DIP 0G835-347	Feb. 21, 2024	Feb. 20, 2027
☐	MVG	900 MHz Dipole	SID900	SN 03/15 DI P 0G900-348	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	1800 MHz Dipole	SID1800	SN 03/15 DIP 1G800-349	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	1900 MHz Dipole	SID1900	SN 03/15 DIP 1G900-350	Feb. 21, 2024	Feb. 20, 2027
☐	MVG	2000 MHz Dipole	SID2000	SN 03/15 DIP 2G000-351	Feb. 21, 2024	Feb. 20, 2027
☐	MVG	2300 MHz Dipole	SID2300	SN 03/16 DIP 2G300-358	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	2450 MHz Dipole	SID2450	SN 03/15 DIP 2G450-352	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	2600 MHz Dipole	SID2600	SN 03/15 DIP 2G600-356	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	3500 MHz Dipole	SID3500	SN 09/12 DIP 3G500-360	Oct. 15, 2022	Oct. 14, 2025
☒	MVG	5000 MHz Dipole	SWG5500	SN 13/14 WGA 33	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	Liquid measurement Kit	SCLMP	SN 21/15 OCPG 72	Sep. 23, 2024	Sep. 22, 2025
☒	SCHAFFNER	Power Amplifier	CBA9429	T43605	NCR	NCR
☒	KEITHLEY	Millivoltmeter	2000	4072790	Sep. 23, 2024	Sep. 22, 2025
☒	R&S	Wideband radio communication tester	CMW500	116581	Sep. 23, 2024	Sep. 22, 2025
☒	HP	Network Analyzer	8753D	3410J01136	Sep. 23, 2024	Sep. 22, 2025
☒	Agilent	PSG Analog	N5182A	MY50143009	Sep. 23,	Sep. 22,

		Signal Generator			2024	2025
☒	Agilent	Power meter	E4419B	MY45102079	Sep. 25, 2024	Sep. 24, 2025
☒	Agilent	Power meter	E4419B	MY45102140	Sep. 25, 2024	Sep. 24, 2025
☒	Agilent	Power meter	E4419B	MY45102215	Sep. 25, 2024	Sep. 24, 2025
☒	JFW	attenuator	50FPE-006	4360846-494-4	Sep. 25, 2024	Sep. 24, 2025
☒	JFW	attenuator	50FPE-006	4360846-492-1	Sep. 25, 2024	Sep. 24, 2025
☒	JFW	attenuator	50FPE-006	4360846-490-6	Sep. 25, 2024	Sep. 24, 2025
☒	Agilent	Power sensor	8481A	MY41097697	Sep. 25, 2024	Sep. 24, 2025
☒	Agilent	Power sensor	8481A	MY41097696	Sep. 25, 2024	Sep. 24, 2025
☒	MCLI/USA	Directional Coupler	CB11-20	0D2L51502	Sep. 23, 2024	Sep. 22, 2025
☒	MVG	SAR Phantom	SSM2	SN 24/11 SAM87	NCR	NCR
☒	MVG	Device Holder	SMPPD	SN 24/11 MSH73	NCR	NCR
☒	Keysight	UXM 5G Wireless Test Platform	E7515B	MY58120285	Sep. 23, 2024	Sep. 22, 2025

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			$30^{\circ} \pm 1^{\circ}$	$20^{\circ} \pm 1^{\circ}$
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
			When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be $\leq$ 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: Δx_{Zoom} , Δy_{Zoom}			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{Zoom}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{Zoom}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.				
* When zoom scan is required and the <u>reported</u> SAR from the <u>area scan based 1-g SAR estimation</u> procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

3.3. Description of interpolation/extrapolation scheme

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

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

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

3.4. Volumetric Scan

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

3.5. Power Drift

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

4. System Verification Procedure

4.1. Tissue Verification

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

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

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



4.1.1. Tissue Dielectric Parameter Check Results

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

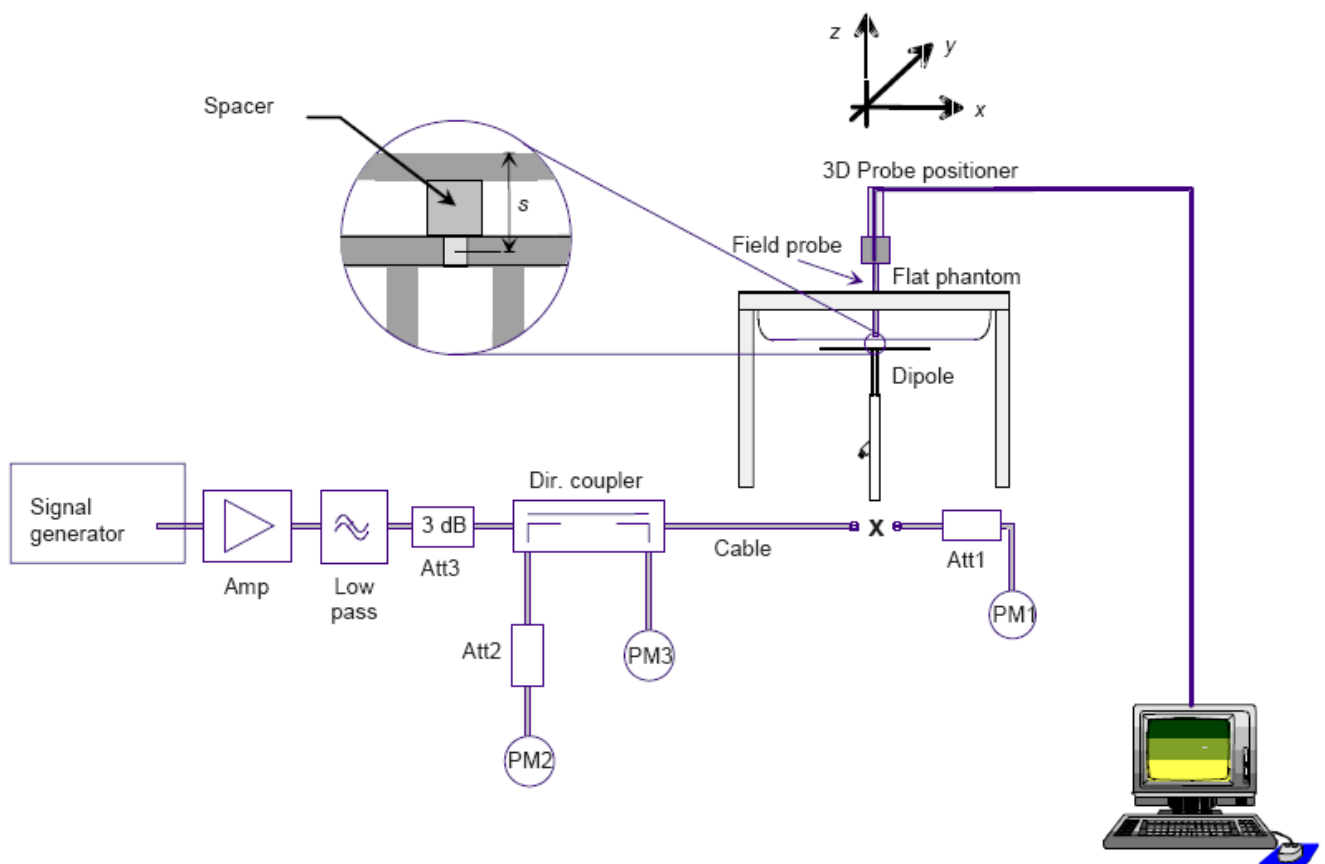
Tissue Type	Measured Frequency (MHz)	Target Tissue		Measured Tissue		Liquid Temp.	Test Date
		$\epsilon_r (\pm 5\%)$	$\sigma \text{ (S/m)} (\pm 5\%)$	ϵ_r	$\sigma \text{ (S/m)}$		
Head 750	750	41.96 (39.86~44.06)	0.89 (0.85~0.93)	42.56	0.91	21.2 °C	Apr. 23, 2025
Head 850	835	41.50 (39.43~43.58)	0.90 (0.86~0.95)	42.01	0.94	21.1 °C	Apr. 24, 2025
Head 1800	1800	40.00 (38.00~42.00)	1.40 (1.33~1.47)	39.61	1.41	21.0 °C	Apr. 25, 2025
Head 1900	1900	40.00 (38.00~42.00)	1.40 (1.33~1.47)	41.42	1.39	21.6 °C	Apr. 28, 2025
Head 2450	2450	39.20 (37.24~41.16)	1.80 (1.71~1.89)	40.41	1.82	21.7 °C	Apr. 29, 2025
Head 2600	2600	39.01 (37.06~40.96)	1.96 (1.86~2.06)	39.43	1.99	21.8 °C	Apr. 30, 2025
Head 3500	3500	37.93 (36.04~39.82)	2.91 (2.77~3.05)	38.21	2.80	21.4 °C	May 26, 2025
Head 5200	5200	36.00 (34.20~37.80)	4.66 (4.43~4.89)	37.40	4.51	21.3 °C	May 27, 2025
Head 5800	5800	35.30 (33.54~37.07)	5.27 (5.01~5.53)	35.30	5.27	21.2 °C	May 28, 2025

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

4.2. System Verification Procedure

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

The system verification is shown as below picture:



4.2.1. System Verification Results

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

System Verification	Power fed to reference dipole (mW)	Measured SAR Value		Measured SAR (Normalized to 1W)		Target SAR Value (1W)		Deviation (%)		Test Date
		1-g (W/Kg)	10-g (W/Kg)	1-g (W/Kg)	10-g (W/Kg)	1-g (W/Kg)	10-g (W/Kg)	1-g (W/Kg)	10-g (W/Kg)	
750MHz	100	0.930	0.621	9.30	6.21	8.60	5.78	8.14%	7.44%	Apr. 23, 2025
835MHz	100	1.011	0.612	10.11	6.12	9.40	6.28	7.55%	-2.55%	Apr. 24, 2025
1800MHz	100	3.832	2.025	38.32	20.25	37.06	20.01	3.40%	1.20%	Apr. 25, 2025
1900MHz	100	4.154	2.153	41.54	21.53	39.69	20.92	4.66%	2.92%	Apr. 28, 2025
2450MHz	100	5.184	2.359	51.84	23.59	50.05	23.80	3.58%	-0.88%	Apr. 29, 2025
2600MHz	100	5.433	2.523	54.33	25.23	54.16	24.85	0.31%	1.53%	Apr. 30, 2025
3500MHz	100	6.533	2.405	65.33	24.05	67.18	24.50	-2.75%	-1.84%	May 26, 2025
5200MHz	100	14.712	5.212	147.12	52.12	162.59	56.21	-9.51%	-7.28%	May 27, 2025
5800MHz	100	16.421	5.623	164.21	56.23	182.2	61.32	-9.87%	-8.30%	May 28, 2025

5. SAR measurement variability

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

1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.

2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.

3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).

4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

6. SAR Measurement Uncertainty

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

7. RF Exposure Positions

7.1. Generic device

The SAR evaluation shall be performed for surface of the DUT that are accessible during intended use, as indicated in Figure 7.1. Adjust the distance between the device surface and the flat phantom to 0mm.

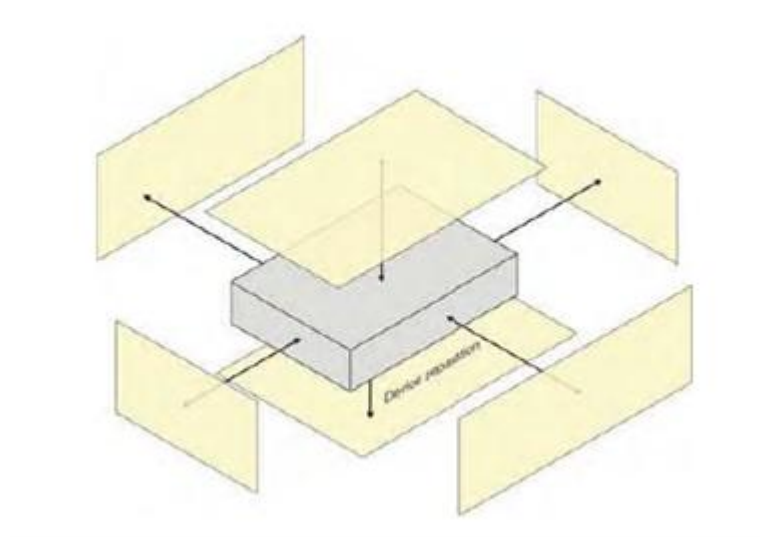


Figure 7.1 – Test positions for generic device

8. RF Output Power

8.1. WCDMA Conducted Power

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

1. Release99 Setup Configuration

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

2. HSDPA Setup Configuration

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

3. HSUPA Setup Configuration

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

HSUPA Specific Settings	Ack-Nack repetition factor	3				
	CQI Feedback (Table 5.2B.4)	4ms				
	CQI Repetition Factor (Table 5.2B.4)	2				
	Ahs = β_{hs}/β_c	30/15				
	D E-DPCCH	6	8	8	5	7
	DHARQ	0	0	0	0	0
	AG Index	20	12	15	17	21
	ETFCI (from 34.121 Table C.11.1.3)	75	67	92	71	81
	Associated Max UL Data Rate kbps	242.1	174.9	482.8	205.8	308.9

4. WCDMA Conducted Power Results

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

WCDMA Band II	Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	9262	9400	9538
Frequency (MHz)		1852.4	1880	1907.6
RMC12.2K	21.50	21.42	21.44	21.33
HSDPA Sub 1	22.00	21.40	21.59	21.22
HSDPA Sub 2	22.00	21.41	21.60	21.22
HSDPA Sub 3	22.00	21.40	21.61	21.21
HSDPA Sub 4	22.00	21.38	21.58	21.19
HSUPA Sub 1	19.50	19.22	19.17	18.55
HSUPA Sub 2	19.50	19.19	19.46	18.54
HSUPA Sub 3	20.00	19.18	19.64	18.53
HSUPA Sub 4	19.50	19.20	19.39	18.69
HSUPA Sub 5	19.50	19.26	19.15	18.68

WCDMA Band V	Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	4132	4182	4233
Frequency (MHz)		826.4	836.4	846.6
RMC12.2K	23.00	22.51	22.64	22.65
HSDPA Sub 1	22.50	22.15	22.02	21.69
HSDPA Sub 2	22.50	22.18	22.00	21.68
HSDPA Sub 3	22.50	22.20	22.02	21.68
HSDPA Sub 4	22.50	22.18	22.03	21.76
HSUPA Sub 1	20.50	20.21	19.62	19.20
HSUPA Sub 2	20.00	19.79	19.63	19.36
HSUPA Sub 3	20.00	19.71	19.63	19.66
HSUPA Sub 4	20.00	19.70	19.92	19.64
HSUPA Sub 5	20.50	20.05	19.92	19.64

8.2. LTE Conducted Power

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

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

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

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

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

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

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

2. LTE Conducted Power Results

LTE output list

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18607/1850.7	18900/1880	19193/1909.3
LTE Band 2	1.4MHz	QPSK	1	0	24.50	24.12	23.83	24.02
			1	2	24.50	24.29	24.00	24.20
			1	5	24.50	24.11	23.83	23.99
			3	0	24.50	24.22	23.99	24.10
			3	1	24.50	24.22	24.03	24.14
			3	2	24.50	24.18	24.00	24.10
			6	0	23.50	23.21	22.93	23.07
		16QAM	1	0	24.00	23.47	23.11	23.15
			1	2	24.00	23.63	23.27	23.29
			1	5	24.00	23.43	23.09	23.12
			3	0	23.50	23.39	23.10	23.19
			3	1	23.50	23.37	23.13	23.22
			3	2	23.50	23.34	23.12	23.16
			6	0	22.50	22.22	21.92	22.20
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18615/1851.5	18900/1880	19185/1908.5
LTE Band 2	3MHz	QPSK	1	0	24.50	24.20	23.92	24.07
			1	7	24.50	24.14	23.95	24.12
			1	14	24.50	24.16	23.92	24.13
			8	0	23.50	23.26	22.94	23.13
			8	4	23.50	23.29	22.99	23.14
			8	7	23.50	23.27	22.95	23.10
			15	0	23.50	23.19	22.94	23.07
		16QAM	1	0	23.50	23.38	23.21	23.21
			1	7	23.50	23.41	23.20	23.24
			1	14	23.50	23.43	23.14	23.21
			8	0	22.50	22.40	21.96	22.30
			8	4	22.50	22.43	22.02	22.33
			8	7	22.50	22.43	21.99	22.31
			15	0	22.50	22.26	22.00	22.18
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18625/1852.5	18900/1880	19175/1907.5
LTE Band 2	5MHz	QPSK	1	0	24.50	24.14	23.85	24.03
			1	12	24.50	24.23	23.97	24.14
			1	24	24.50	24.13	23.86	24.05
			12	0	23.50	23.16	22.96	23.11
			12	6	23.50	23.24	23.03	23.17
			12	11	23.50	23.28	22.96	23.08
			25	0	23.50	23.23	23.02	23.14
		16QAM	1	0	23.50	23.38	23.12	23.33
			1	12	23.50	23.45	23.22	23.42
			1	24	23.50	23.31	23.13	23.36
			12	0	22.50	22.14	22.07	22.08

			12	6	22.50	22.24	22.11	22.13
			12	11	22.50	22.25	22.05	22.05
			25	0	22.50	22.23	22.04	22.19
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18650/1855	18900/1880	19150/1905
LTE Band 2	10MHz	QPSK	1	0	24.50	24.17	23.91	23.98
			1	24	24.50	24.31	24.10	24.22
			1	49	24.50	24.11	23.91	24.13
			25	0	23.50	23.20	23.08	23.16
			25	12	23.50	23.25	23.07	23.16
			25	24	23.50	23.28	23.09	23.15
			50	0	23.50	23.21	23.08	23.16
		16QAM	1	0	24.00	23.38	23.21	23.11
			1	24	24.00	23.51	23.36	23.34
			1	49	24.00	23.34	23.17	23.22
			25	0	22.50	22.25	22.09	22.23
			25	12	22.50	22.30	22.12	22.24
			25	24	22.50	22.34	22.15	22.24
			50	0	22.50	22.25	22.08	22.21
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18675/1857.5	18900/1880	19125/1902.5
LTE Band 2	15MHz	QPSK	1	0	24.50	24.13	23.86	23.83
			1	37	24.50	24.22	23.95	24.01
			1	74	24.50	24.02	23.82	23.94
			36	0	23.50	23.26	23.07	23.15
			36	18	23.50	23.31	23.07	23.14
			36	37	23.50	23.25	23.08	23.12
			75	0	23.50	23.28	23.08	23.15
		16QAM	1	0	24.00	23.22	23.13	23.33
			1	37	24.00	23.25	23.22	23.53
			1	74	24.00	23.10	23.09	23.52
			36	0	22.50	22.18	22.07	22.08
			36	18	22.50	22.21	22.06	22.09
			36	37	22.50	22.19	22.05	22.08
			75	0	22.50	22.22	22.10	22.12
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18700/1860	18900/1880	19100/1900
LTE Band 2	20MHz	QPSK	1	0	24.50	23.95	23.76	23.64
			1	49	24.50	24.28	24.09	24.09
			1	99	24.50	23.83	23.74	23.79
			50	0	23.50	23.10	23.05	23.10
			50	24	23.50	23.20	23.07	23.06
			50	49	23.50	23.13	23.06	22.95
			100	0	23.50	23.10	23.03	23.02
		16QAM	1	0	24.00	23.18	23.03	23.11
			1	49	24.00	23.50	23.32	23.64
			1	99	24.00	23.09	23.01	23.31
			50	0	22.50	22.16	22.09	22.13

			50	24	22.50	22.21	22.09	22.10
			50	49	22.50	22.16	22.09	22.05
			100	0	22.50	22.14	22.12	22.08

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		19957/1710.7	20175/1732.5	20393/1754.3
LTE Band 4	1.4MHz	QPSK	1	0	24.00	23.59	23.50	23.42
			1	2	24.00	23.80	23.66	23.60
			1	5	24.00	23.57	23.48	23.42
			3	0	24.00	23.66	23.61	23.53
			3	1	24.00	23.71	23.64	23.54
			3	2	24.00	23.67	23.60	23.52
			6	0	23.00	22.63	22.56	22.50
		16QAM	1	0	23.50	22.62	22.85	22.55
			1	2	23.50	22.79	23.08	22.75
			1	5	23.50	22.62	22.82	22.54
			3	0	23.00	22.64	22.76	22.55
			3	1	23.00	22.65	22.78	22.58
			3	2	23.00	22.62	22.73	22.55
			6	0	22.00	21.69	21.60	21.42
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		19965/1711.5	20175/1732.5	20385/1753.5
LTE Band 4	3MHz	QPSK	1	0	24.00	23.58	23.55	23.47
			1	7	24.00	23.63	23.63	23.44
			1	14	24.00	23.57	23.58	23.43
			8	0	23.00	22.54	22.59	22.51
			8	4	23.00	22.62	22.62	22.52
			8	7	23.00	22.55	22.56	22.49
			15	0	23.00	22.52	22.56	22.43
		16QAM	1	0	23.00	22.74	22.72	22.56
			1	7	23.00	22.75	22.73	22.64
			1	14	23.00	22.68	22.65	22.64
			8	0	22.00	21.59	21.76	21.62
			8	4	22.00	21.59	21.81	21.67
			8	7	22.00	21.60	21.80	21.61
			15	0	22.00	21.58	21.63	21.46
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		19975/1712.5	20175/1732.5	20375/1752.5
LTE Band 4	5MHz	QPSK	1	0	24.00	23.49	23.52	23.42
			1	12	24.00	23.58	23.63	23.53
			1	24	24.00	23.48	23.50	23.43
			12	0	23.00	22.54	22.57	22.42
			12	6	23.00	22.60	22.62	22.49
			12	11	23.00	22.54	22.54	22.45
			25	0	23.00	22.58	22.62	22.42
		16QAM	1	0	23.00	22.71	22.83	22.56
			1	12	23.00	22.75	22.94	22.68
			1	24	23.00	22.68	22.81	22.58

			12	0	22.00	21.57	21.54	21.37
			12	6	22.00	21.64	21.61	21.42
			12	11	22.00	21.62	21.57	21.43
			25	0	22.00	21.59	21.65	21.40
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20000/1715	20175/1732.5	20350/1750
LTE Band 4	10MHz	QPSK	1	0	24.00	23.64	23.58	23.48
			1	24	24.00	23.77	23.70	23.58
			1	49	24.00	23.67	23.55	23.46
			25	0	23.00	22.58	22.68	22.48
			25	12	23.00	22.61	22.64	22.49
			25	24	23.00	22.66	22.64	22.50
			50	0	23.00	22.62	22.66	22.45
		16QAM	1	0	23.00	22.62	22.84	22.57
			1	24	23.00	22.76	22.94	22.70
			1	49	23.00	22.66	22.78	22.62
			25	0	22.00	21.61	21.75	21.47
			25	12	22.00	21.67	21.72	21.49
			25	24	22.00	21.71	21.73	21.52
			50	0	22.00	21.62	21.70	21.44
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20025/1717.5	20175/1732.5	20325/1747.5
LTE Band 4	15MHz	QPSK	1	0	24.00	23.56	23.51	23.37
			1	37	24.00	23.70	23.58	23.46
			1	74	24.00	23.56	23.42	23.33
			36	0	23.00	22.69	22.68	22.56
			36	18	23.00	22.78	22.68	22.61
			36	37	23.00	22.78	22.65	22.60
			75	0	23.00	22.78	22.67	22.60
		16QAM	1	0	23.00	22.59	22.74	22.82
			1	37	23.00	22.71	22.82	22.85
			1	74	23.00	22.57	22.62	22.76
			36	0	22.00	21.60	21.65	21.47
			36	18	22.00	21.68	21.66	21.49
			36	37	22.00	21.70	21.62	21.49
			75	0	22.00	21.70	21.65	21.49
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20050/1720	20175/1732.5	20300/1745
LTE Band 4	20MHz	QPSK	1	0	24.00	23.38	23.40	23.25
			1	49	24.00	23.74	23.72	23.58
			1	99	24.00	23.35	23.28	23.22
			50	0	23.00	22.51	22.64	22.47
			50	24	23.00	22.64	22.62	22.51
			50	49	23.00	22.60	22.59	22.50
			100	0	23.00	22.61	22.63	22.50
		16QAM	1	0	23.00	22.56	22.58	22.71
			1	49	23.00	22.92	22.97	22.91
			1	99	23.00	22.56	22.45	22.61

			50	0	22.00	21.52	21.68	21.54
			50	24	22.00	21.68	21.67	21.53
			50	49	22.00	21.66	21.62	21.50
			100	0	22.00	21.63	21.70	21.52

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	24.50	24.31	24.27	24.31
			1	2	24.50	24.37	24.23	24.34
			1	5	24.50	24.40	24.24	24.35
			3	0	24.50	24.44	24.27	24.25
			3	1	24.50	24.49	24.27	24.29
			3	2	24.50	24.45	24.21	24.26
			6	0	24.00	23.50	23.28	23.25
		16QAM	1	0	24.00	23.48	22.81	23.78
			1	2	24.00	23.50	22.81	23.81
			1	5	24.00	23.51	22.86	23.77
			3	0	23.50	23.27	23.03	23.16
			3	1	23.50	23.25	22.95	23.18
			3	2	23.50	23.27	23.01	23.13
			6	0	23.00	22.39	22.37	22.82
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20415/825.5	20525/836.5	20635/847.5
LTE Band 5	3MHz	QPSK	1	0	24.50	24.39	24.32	24.37
			1	7	24.50	24.37	24.26	24.34
			1	14	24.50	24.38	24.20	24.38
			8	0	24.00	23.57	23.30	23.30
			8	4	24.00	23.56	23.19	23.30
			8	7	24.00	23.41	23.15	23.31
			15	0	24.00	23.57	23.36	23.32
		16QAM	1	0	24.00	23.82	22.96	23.78
			1	7	24.00	23.73	22.90	23.58
			1	14	24.00	23.74	22.85	23.62
			8	0	23.50	22.79	23.05	22.37
			8	4	23.50	22.70	22.52	22.31
			8	7	23.50	23.23	22.57	22.76
			15	0	22.50	22.49	22.40	22.27
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20425/826.5	20525/836.5	20625/846.5
LTE Band 5	5MHz	QPSK	1	0	25.00	24.50	24.36	24.30
			1	12	25.00	24.43	24.19	24.31
			1	24	25.00	24.43	24.23	24.36
			12	0	23.50	23.45	23.28	23.24
			12	6	23.50	23.43	23.29	23.34
			12	11	23.50	23.41	23.29	23.33
			25	0	23.50	23.42	23.32	23.33
		16QAM	1	0	23.50	22.50	23.31	23.17
			1	12	23.50	22.43	23.23	23.17
			1	24	23.50	22.49	23.33	23.15

			12	0	23.00	22.47	22.83	22.14
			12	6	23.00	22.90	22.35	22.14
			12	11	23.00	22.89	22.29	22.11
			25	0	23.00	22.96	22.46	22.24
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20450/829	20525/836.5	20600/844
LTE Band 5	10MHz	QPSK	1	0	24.50	24.30	24.23	24.42
			1	24	24.50	24.39	24.15	24.43
			1	49	24.50	24.24	24.31	24.45
			25	0	24.00	23.36	23.31	23.36
			25	12	24.00	23.50	23.33	23.33
			25	24	24.00	23.78	23.30	23.32
		16QAM	50	0	23.50	23.47	23.25	23.26
			1	0	24.00	23.55	23.43	23.46
			1	24	24.00	23.51	23.01	23.50
			1	49	24.00	23.47	23.14	23.47
			25	0	23.00	22.97	22.96	22.48
			25	12	23.00	22.43	22.55	22.90
			25	24	23.00	22.74	22.96	22.47
			50	0	23.00	22.48	22.43	22.82

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20775/2502.5	21100/2535	21425/2567.5
LTE Band 7	5MHz	QPSK	1	0	24.00	23.74	23.75	23.59
			1	12	24.00	23.67	23.67	23.61
			1	24	24.00	23.81	23.72	23.63
			12	0	23.00	22.98	22.82	22.62
			12	6	23.00	22.81	22.72	22.59
			12	11	23.00	22.85	22.77	22.57
			25	0	23.00	22.83	22.79	22.71
		16QAM	1	0	23.00	22.80	22.79	21.94
			1	12	23.00	22.85	22.80	22.00
			1	24	23.00	22.80	22.82	21.94
			12	0	22.50	22.00	21.66	21.56
			12	6	22.50	22.08	21.72	21.56
			12	11	22.50	22.24	21.87	21.54
			25	0	22.50	22.01	21.55	21.68
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20800/2505	21100/2535	21400/2565
LTE Band 7	10MHz	QPSK	1	0	24.00	23.88	23.79	23.72
			1	24	24.00	23.87	23.86	23.74
			1	49	24.00	23.86	23.85	23.75
			25	0	23.00	22.78	22.78	22.66
			25	12	23.00	22.80	22.78	22.59
			25	24	23.00	22.96	22.75	22.62
			50	0	23.00	22.98	22.67	22.68
		16QAM	1	0	23.00	22.43	22.46	22.47
			1	24	23.00	22.42	22.54	22.48

			1	49	23.00	22.43	22.60	22.48
			25	0	22.00	21.91	21.76	21.85
			25	12	22.00	21.90	21.80	21.70
			25	24	22.00	21.90	21.85	21.83
			50	0	22.00	21.96	21.75	21.69
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20825/2507.5	21100/2535	21375/2562.5
LTE Band 7	15MHz	QPSK	1	0	24.00	23.78	23.82	23.69
			1	37	24.00	23.84	23.78	23.69
			1	74	24.00	23.85	23.80	23.75
			36	0	23.00	22.89	22.80	22.73
			36	18	23.00	22.92	22.69	22.62
			36	37	23.00	22.94	22.82	22.67
			75	0	23.00	22.91	22.72	22.67
		16QAM	1	0	23.00	22.45	22.57	22.61
			1	37	23.00	22.36	22.55	22.60
			1	74	23.00	22.41	22.61	22.71
			36	0	22.00	21.90	21.80	21.66
			36	18	22.00	21.90	21.77	21.60
			36	37	22.00	21.93	21.88	21.68
			75	0	22.00	21.95	21.84	21.66
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20850/2510	21100/2535	21350/2560
LTE Band 7	20MHz	QPSK	1	0	24.00	23.73	23.88	23.87
			1	49	24.00	23.72	23.79	23.96
			1	99	24.00	23.79	23.77	23.94
			50	0	23.00	22.83	22.74	22.68
			50	24	23.00	22.82	22.77	22.62
			50	49	23.00	22.88	22.79	22.62
			100	0	23.00	22.79	22.73	22.64
		16QAM	1	0	23.50	22.73	23.10	22.56
			1	49	23.50	22.83	23.08	22.64
			1	99	23.50	22.88	23.10	22.69
			50	0	22.00	21.83	21.69	21.69
			50	24	22.00	21.97	21.73	21.72
			50	49	22.00	21.89	21.74	21.64
			100	0	22.00	21.77	21.80	21.62

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23017/699.7	23095/707.5	23173/715.3
LTE Band 12	1.4MHz	QPSK	1	0	24.50	24.17	24.18	24.24
			1	2	24.50	24.33	24.38	24.39
			1	5	24.50	24.22	24.17	24.22
			3	0	24.50	24.26	24.26	24.30
			3	1	24.50	24.27	24.29	24.29
			3	2	24.50	24.25	24.28	24.26
			6	0	23.50	23.22	23.20	23.27
		16QAM	1	0	24.00	23.26	23.24	23.50

			1	2	24.00	23.42	23.39	23.64
			1	5	24.00	23.26	23.22	23.46
			3	0	23.50	23.24	23.25	23.42
			3	1	23.50	23.30	23.26	23.42
			3	2	23.50	23.28	23.23	23.37
			6	0	22.50	22.19	22.35	22.34
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23025/700.5	23095/707.5	23165/714.5
LTE Band 12	3MHz	QPSK	1	0	24.50	24.22	24.23	24.30
			1	7	24.50	24.16	24.21	24.30
			1	14	24.50	24.24	24.23	24.34
			8	0	23.50	23.22	23.20	23.32
			8	4	23.50	23.30	23.25	23.33
			8	7	23.50	23.22	23.23	23.31
			15	0	23.50	23.18	23.18	23.24
		16QAM	1	0	23.50	23.29	23.44	23.34
			1	7	23.50	23.32	23.44	23.39
			1	14	23.50	23.41	23.34	23.34
			8	0	23.00	22.37	22.28	22.51
			8	4	23.00	22.46	22.33	22.53
			8	7	23.00	22.41	22.31	22.52
			15	0	22.50	22.26	22.31	22.33
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23035/701.5	23095/707.5	23155/713.5
LTE Band 12	5MHz	QPSK	1	0	24.50	24.10	24.21	24.20
			1	12	24.50	24.24	24.26	24.32
			1	24	24.50	24.19	24.24	24.27
			12	0	23.50	23.18	23.20	23.31
			12	6	23.50	23.23	23.26	23.29
			12	11	23.50	23.17	23.27	23.21
			25	0	23.50	23.19	23.25	23.28
		16QAM	1	0	24.00	23.22	23.46	23.34
			1	12	24.00	23.41	23.50	23.45
			1	24	24.00	23.42	23.43	23.42
			12	0	22.50	22.24	22.20	22.30
			12	6	22.50	22.32	22.26	22.30
			12	11	22.50	22.24	22.27	22.23
			25	0	22.50	22.26	22.31	22.31
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23060/704	23095/707.5	23130/711
LTE Band 12	10MHz	QPSK	1	0	24.50	24.16	24.20	24.22
			1	24	24.50	24.35	24.34	24.42
			1	49	24.50	24.23	24.28	24.34
			25	0	23.50	23.30	23.29	23.15
			25	12	23.50	23.27	23.28	23.26
			25	24	23.50	23.35	23.29	23.15
			50	0	23.50	23.32	23.32	23.16
		16QAM	1	0	24.00	23.27	23.35	23.26

			1	24	24.00	23.51	23.50	23.39
			1	49	24.00	23.38	23.39	23.36
			25	0	22.50	22.39	22.36	22.23
			25	12	22.50	22.40	22.34	22.37
			25	24	22.50	22.44	22.36	22.21
			50	0	22.50	22.38	22.37	22.25

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23755/706.5	23790/710	23825/713.5
LTE Band 17	5MHz	QPSK	1	0	24.00	23.78	23.61	23.55
			1	12	24.00	23.71	23.72	23.71
			1	24	24.00	23.66	23.65	23.63
			12	0	23.00	22.76	22.74	22.81
			12	6	23.00	22.83	22.76	22.81
			12	11	23.00	22.84	22.72	22.70
		16QAM	25	0	23.00	22.83	22.73	22.77
			1	0	23.50	22.58	23.05	22.69
			1	12	23.50	22.72	23.16	22.84
			1	24	23.50	22.61	23.05	22.72
			12	0	22.00	21.78	21.68	21.85
			12	6	22.00	21.87	21.77	21.86
			12	11	22.00	21.87	21.69	21.73
			25	0	22.00	21.91	21.71	21.83
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23780/709	23790/710	23800/711
LTE Band 17	10MHz	QPSK	1	0	24.00	23.70	23.75	23.61
			1	24	24.00	23.90	23.91	23.80
			1	49	24.00	23.79	23.84	23.75
			25	0	23.00	22.72	22.71	22.72
			25	12	23.00	22.81	22.80	22.76
			25	24	23.00	22.72	22.64	22.66
			50	0	23.00	22.72	22.67	22.65
		16QAM	1	0	23.50	23.07	22.69	22.70
			1	24	23.50	23.19	22.74	22.80
			1	49	23.50	23.11	22.67	22.74
			25	0	22.00	21.75	21.74	21.78
			25	12	22.00	21.82	21.86	21.82
			25	24	22.00	21.74	21.76	21.76
			50	0	22.00	21.71	21.67	21.70

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		40265/2557.5	40740/2605	41215/2652.5
LTE Band 41	5MHz	QPSK	1	0	24.00	23.87	23.63	23.45
			1	12	24.00	23.94	23.52	23.73
			1	24	24.00	23.90	23.63	23.62
			12	0	23.00	22.89	22.50	22.73
			12	6	23.00	22.90	22.63	22.81
			12	11	23.00	22.82	22.63	22.63
			25	0	23.00	22.86	22.62	22.68

		16QAM	1	0	23.50	23.08	22.54	22.71
			1	12	23.50	22.86	22.68	22.76
			1	24	23.50	22.84	22.51	22.68
			12	0	22.00	21.83	21.52	21.75
			12	6	22.00	21.80	21.52	21.64
			12	11	22.00	21.72	21.52	21.58
			25	0	22.00	21.82	21.51	21.66
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		40290/2560	40740/2605	41190/2650
LTE Band 41	10MHz	QPSK	1	0	24.50	23.95	23.52	23.74
			1	24	24.50	24.11	23.74	23.79
			1	49	24.50	23.98	23.57	23.58
			25	0	23.50	23.01	22.58	22.74
			25	12	23.50	22.96	22.58	22.70
			25	24	23.50	22.90	22.58	22.69
		16QAM	50	0	23.00	22.89	22.56	22.70
			1	0	23.00	22.94	22.77	22.53
			1	24	23.00	22.88	22.66	22.78
			1	49	23.00	22.99	22.79	22.56
			25	0	22.00	21.89	21.53	21.71
			25	12	22.00	21.89	21.50	21.74
			25	24	22.00	21.88	21.66	21.82
			50	0	22.00	21.84	21.64	21.69
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		40315/2562.5	40740/2605	41165/2647.5
LTE Band 41	15MHz	QPSK	1	0	24.00	23.85	23.52	23.77
			1	37	24.00	23.96	23.74	23.84
			1	74	24.00	23.81	23.51	23.62
			36	0	23.50	22.96	22.68	22.76
			36	18	23.50	23.01	22.60	22.74
			36	37	23.50	22.97	22.56	22.63
			75	0	23.00	22.89	22.58	22.71
		16QAM	1	0	23.00	22.87	22.85	22.47
			1	37	23.00	22.93	22.93	22.56
			1	74	23.00	22.83	22.76	22.46
			36	0	22.00	21.86	21.55	21.67
			36	18	22.00	21.90	21.52	21.76
			36	37	22.00	21.88	21.52	21.65
			75	0	22.00	21.91	21.53	21.76
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		40340/2565	40740/2605	41140/2645
LTE Band 41	20MHz	QPSK	1	0	24.50	23.70	23.30	23.54
			1	49	24.50	24.18	23.71	23.79
			1	99	24.50	23.69	23.26	23.16
			50	0	23.00	22.86	22.63	22.60
			50	24	23.00	22.82	22.63	22.65
			50	49	23.00	22.88	22.51	22.69
			100	0	23.00	22.76	22.52	22.59
		16QAM	1	0	23.50	22.89	22.24	22.23
			1	49	23.50	23.01	22.71	22.39

			1	99	23.50	22.63	22.40	22.12
			50	0	22.00	21.77	21.49	21.62
			50	24	22.00	21.84	21.55	21.85
			50	49	22.00	21.80	21.53	21.64
			100	0	22.00	21.74	21.48	21.65

8.3. NR Output Power

NR Band n77(3450-3550) SCS 15KHz						
BW (MHz)	Modulation	RB Allocation	Conducted Power(dBm)			Tune- up (dBm)
			Channel/Frequency(MHz)			
			631668	633334	635000	
			3475.0	3500.0	3525.0	
			20	10	00	
50	DFT_BPSK	135@67	23.39	23.49	23.64	24.00
50	DFT_BPSK	1@1	23.87	23.11	22.98	24.00
50	DFT_BPSK	1@268	23.45	23.34	23.32	24.00
50	DFT_QPSK	135@67	23.18	23.08	23.95	24.00
50	DFT_QPSK	1@1	23.78	23.13	23.13	24.00
50	DFT_QPSK	1@268	23.84	23.13	23.13	24.00
50	DFT_QAM16	135@67	22.06	22.40	22.32	23.00
50	DFT_QAM16	1@1	22.13	22.05	22.39	23.00
50	DFT_QAM16	1@268	22.22	22.26	22.47	23.00
50	DFT_QAM64	135@67	21.36	21.26	21.12	22.00
50	DFT_QAM64	1@1	21.40	21.42	21.20	22.00
50	DFT_QAM64	1@268	21.26	21.47	21.24	22.00
50	DFT_QAM256	135@67	19.29	19.04	18.99	20.00
50	DFT_QAM256	1@1	19.32	19.15	19.24	20.00
50	DFT_QAM256	1@268	19.36	19.35	19.09	20.00
50	CP_QPSK	135@67	21.02	21.13	21.31	22.00
50	CP_QPSK	1@1	21.35	21.06	21.43	22.00
50	CP_QPSK	1@268	21.41	21.44	21.06	22.00
50	CP_QAM16	135@67	21.14	21.17	21.20	22.00
50	CP_QAM16	1@1	21.46	21.46	21.11	22.00
50	CP_QAM16	1@268	21.24	21.18	21.32	22.00
50	CP_QAM64	135@67	19.02	19.07	19.44	20.00
50	CP_QAM64	1@1	19.16	19.19	19.17	20.00
50	CP_QAM64	1@268	19.12	19.01	19.28	20.00
50	CP_QAM256	135@67	17.38	17.09	17.24	18.00
50	CP_QAM256	1@1	17.08	17.42	17.19	18.00
50	CP_QAM256	1@268	17.09	17.39	17.15	18.00

NR Band n77(3450-3550) SCS 15KHz						
BW (MHz)	Modulation	RB Allocation	Conducted Power(dBm)			Tune- up (dBm)
			Channel/Frequency(MHz)			
			631334	633334	635332	
			3470.0	3500.0	3529.9	
			10	10	80	
40	DFT_BPSK	108@54	23.87	23.06	23.25	24.00
40	DFT_BPSK	1@1	23.10	23.82	23.23	24.00
40	DFT_BPSK	1@214	23.01	23.00	22.98	24.00
40	DFT_QPSK	108@54	23.08	23.27	23.68	24.00
40	DFT_QPSK	1@1	23.47	23.60	23.17	24.00
40	DFT_QPSK	1@214	23.93	23.59	23.37	24.00
40	DFT_QAM16	108@54	22.35	22.38	22.38	23.00
40	DFT_QAM16	1@1	22.06	22.42	21.96	23.00
40	DFT_QAM16	1@214	22.36	21.97	22.00	23.00
40	DFT_QAM64	108@54	21.21	21.05	21.31	22.00
40	DFT_QAM64	1@1	21.15	21.06	21.00	22.00
40	DFT_QAM64	1@214	21.17	21.24	21.13	22.00
40	DFT_QAM256	108@54	19.12	19.19	19.44	20.00
40	DFT_QAM256	1@1	19.20	19.18	18.98	20.00
40	DFT_QAM256	1@214	19.07	19.44	19.36	20.00
40	CP_QPSK	108@54	21.24	21.18	21.20	22.00
40	CP_QPSK	1@1	21.17	21.21	20.97	22.00
40	CP_QPSK	1@214	21.20	21.21	21.37	22.00
40	CP_QAM16	108@54	21.34	21.45	21.29	22.00
40	CP_QAM16	1@1	21.25	21.09	21.24	22.00
40	CP_QAM16	1@214	21.23	20.94	21.27	22.00
40	CP_QAM64	108@54	19.08	18.96	19.31	20.00
40	CP_QAM64	1@1	19.18	19.05	18.99	20.00
40	CP_QAM64	1@214	19.41	19.02	19.12	20.00
40	CP_QAM256	108@54	17.36	17.21	17.15	18.00
40	CP_QAM256	1@1	17.28	17.28	17.15	18.00
40	CP_QAM256	1@214	17.05	17.42	17.14	18.00

NR Band n77(3450-3550) SCS 15KHz						
BW (MHz)	Modulation	RB Allocation	Conducted Power(dBm)			Tune-up (dBm)
			Channel/Frequency(MHz)			
			631000	633334	635666	
			3465.000	3500.010	3534.990	
30	DFT_BPSK	80@40	23.27	23.88	23.75	24.00
30	DFT_BPSK	1@1	23.74	23.42	23.09	24.00
30	DFT_BPSK	1@158	24.04	23.67	23.21	24.50
30	DFT_QPSK	80@40	23.82	22.92	23.68	24.00
30	DFT_QPSK	1@1	23.87	23.35	23.15	24.00
30	DFT_QPSK	1@158	23.35	23.46	23.67	24.00
30	DFT_QAM16	80@40	22.25	22.26	22.18	23.00
30	DFT_QAM16	1@1	22.10	22.23	22.10	23.00
30	DFT_QAM16	1@158	22.04	22.12	22.00	23.00
30	DFT_QAM64	80@40	21.29	21.17	21.33	22.00
30	DFT_QAM64	1@1	21.05	21.31	21.11	22.00
30	DFT_QAM64	1@158	21.24	21.29	21.11	22.00
30	DFT_QAM256	80@40	19.23	19.41	19.30	20.00
30	DFT_QAM256	1@1	18.96	19.35	19.34	20.00
30	DFT_QAM256	1@158	19.05	19.11	19.44	20.00
30	CP_QPSK	80@40	21.09	21.39	21.14	22.00
30	CP_QPSK	1@1	21.19	21.40	21.22	22.00
30	CP_QPSK	1@158	21.01	21.37	21.07	22.00
30	CP_QAM16	80@40	21.49	21.51	21.37	22.00
30	CP_QAM16	1@1	20.97	21.19	21.13	22.00
30	CP_QAM16	1@158	21.30	21.25	21.28	22.00
30	CP_QAM64	80@40	19.30	19.35	19.08	20.00
30	CP_QAM64	1@1	19.20	19.06	19.20	20.00
30	CP_QAM64	1@158	19.01	19.06	19.38	20.00
30	CP_QAM256	80@40	17.33	17.37	17.33	18.00
30	CP_QAM256	1@1	17.04	17.08	17.33	18.00
30	CP_QAM256	1@158	17.16	17.17	17.15	18.00

NR Band n77(3450-3550) SCS 15KHz						
BW (MHz)	Modulation	RB Allocation	Conducted Power(dBm)			Tune-up (dBm)
			Channel/Frequency(MHz)			
			630668	633334	636000	
			3460.0 20	3500.0 10	3540.0 00	
20	DFT_BPSK	50@25	23.54	22.92	23.70	24.00
20	DFT_BPSK	1@1	23.72	23.57	23.01	24.00
20	DFT_BPSK	1@104	23.24	23.81	24.00	24.00
20	DFT_QPSK	50@25	23.86	23.16	23.70	24.00
20	DFT_QPSK	1@1	23.92	23.54	23.39	24.00
20	DFT_QPSK	1@104	23.23	23.22	23.56	24.00
20	DFT_QAM16	50@25	22.26	22.14	22.07	23.00
20	DFT_QAM16	1@1	22.32	22.08	22.26	23.00
20	DFT_QAM16	1@104	22.24	22.29	22.22	23.00
20	DFT_QAM64	50@25	21.38	21.09	20.99	22.00
20	DFT_QAM64	1@1	21.23	21.13	21.33	22.00
20	DFT_QAM64	1@104	21.29	21.12	21.43	22.00
20	DFT_QAM256	50@25	19.25	19.47	19.41	20.00
20	DFT_QAM256	1@1	19.32	19.06	19.17	20.00
20	DFT_QAM256	1@104	19.18	19.38	19.18	20.00
20	CP_QPSK	53@26	21.14	21.03	21.33	22.00
20	CP_QPSK	1@1	21.17	21.13	21.30	22.00
20	CP_QPSK	1@104	21.37	21.23	21.30	22.00
20	CP_QAM16	53@26	21.30	21.49	21.10	22.00
20	CP_QAM16	1@1	21.10	21.47	21.09	22.00
20	CP_QAM16	1@104	21.30	21.32	21.08	22.00
20	CP_QAM64	53@26	18.98	19.11	19.36	20.00
20	CP_QAM64	1@1	19.12	19.07	19.43	20.00
20	CP_QAM64	1@104	19.35	19.11	19.01	20.00
20	CP_QAM256	53@26	17.29	17.07	17.22	18.00
20	CP_QAM256	1@1	17.32	17.38	17.04	18.00
20	CP_QAM256	1@104	17.18	17.32	17.18	18.00

NR Band n77(3450-3550) SCS 15KHz						
BW (MHz)	Modulation	RB Allocation	Conducted Power(dBm)			Tune-up (dBm)
			Channel/Frequency(MHz)			
			630500	633334	636166	
			3457.500	3500.010	3542.490	
15	DFT_BPSK	36@18	23.46	23.90	23.00	24.00
15	DFT_BPSK	1@1	23.77	23.37	23.51	24.00
15	DFT_BPSK	1@77	23.70	23.78	23.15	24.00
15	DFT_QPSK	36@18	23.07	23.40	23.43	24.00
15	DFT_QPSK	1@1	23.24	23.02	23.32	24.00
15	DFT_QPSK	1@77	23.79	23.82	23.77	24.00
15	DFT_QAM16	36@18	22.21	22.18	22.15	23.00
15	DFT_QAM16	1@1	22.42	22.26	22.01	23.00
15	DFT_QAM16	1@77	22.11	22.47	22.29	23.00
15	DFT_QAM64	36@18	21.14	21.10	21.42	22.00
15	DFT_QAM64	1@1	21.19	21.38	21.08	22.00
15	DFT_QAM64	1@77	21.26	20.98	21.26	22.00
15	DFT_QAM256	36@18	19.29	19.20	19.43	20.00
15	DFT_QAM256	1@1	19.12	19.33	19.30	20.00
15	DFT_QAM256	1@77	19.43	19.23	19.38	20.00
15	CP_QPSK	39@19	21.12	20.95	21.42	22.00
15	CP_QPSK	1@1	21.15	21.43	21.24	22.00
15	CP_QPSK	1@77	21.39	21.11	21.22	22.00
15	CP_QAM16	39@19	21.11	21.10	21.14	22.00
15	CP_QAM16	1@1	21.36	21.36	21.38	22.00
15	CP_QAM16	1@77	21.23	21.09	21.37	22.00
15	CP_QAM64	39@19	19.02	19.37	19.43	20.00
15	CP_QAM64	1@1	19.31	19.37	19.27	20.00
15	CP_QAM64	1@77	19.12	19.30	19.07	20.00
15	CP_QAM256	39@19	17.16	17.46	17.35	18.00
15	CP_QAM256	1@1	17.11	17.08	17.03	18.00
15	CP_QAM256	1@77	17.29	17.25	17.21	18.00

NR Band n77(3450-3550) SCS 15KHz						
BW (MHz)	Modulation	RB Allocation	Conducted Power(dBm)			Tune-up (dBm)
			Channel/Frequency(MHz)			
			630334	633334	636332	
			3455.0	3500.0	3544.9	
			10	10	80	
10	DFT_BPSK	25@12	23.84	23.95	23.90	24.00
10	DFT_BPSK	1@1	23.39	23.37	23.26	24.00
10	DFT_BPSK	1@50	23.31	23.27	23.37	24.00
10	DFT_QPSK	25@12	23.18	23.13	23.57	24.00
10	DFT_QPSK	1@1	23.16	23.18	23.84	24.00
10	DFT_QPSK	1@50	23.51	23.81	23.12	24.00
10	DFT_QAM16	25@12	22.17	22.34	22.34	23.00
10	DFT_QAM16	1@1	22.11	22.11	22.19	23.00
10	DFT_QAM16	1@50	22.05	22.23	22.28	23.00
10	DFT_QAM64	25@12	21.31	21.46	21.03	22.00
10	DFT_QAM64	1@1	21.28	21.14	21.27	22.00
10	DFT_QAM64	1@50	21.49	21.22	21.35	22.00
10	DFT_QAM256	25@12	19.10	19.09	19.17	20.00
10	DFT_QAM256	1@1	19.25	19.39	19.35	20.00
10	DFT_QAM256	1@50	19.29	19.35	19.03	20.00
10	CP_QPSK	26@13	21.28	21.10	21.17	22.00
10	CP_QPSK	1@1	21.29	21.14	21.09	22.00
10	CP_QPSK	1@50	21.13	21.15	20.97	22.00
10	CP_QAM16	26@13	21.30	21.24	21.40	22.00
10	CP_QAM16	1@1	21.24	21.51	21.13	22.00
10	CP_QAM16	1@50	21.07	20.98	21.32	22.00
10	CP_QAM64	26@13	19.35	19.27	19.29	20.00
10	CP_QAM64	1@1	19.24	19.42	19.28	20.00
10	CP_QAM64	1@50	19.02	19.11	19.46	20.00
10	CP_QAM256	26@13	17.25	17.39	17.18	18.00
10	CP_QAM256	1@1	17.05	17.23	17.35	18.00
10	CP_QAM256	1@50	17.38	17.30	17.20	18.00

8.4. Wi-Fi Output Power

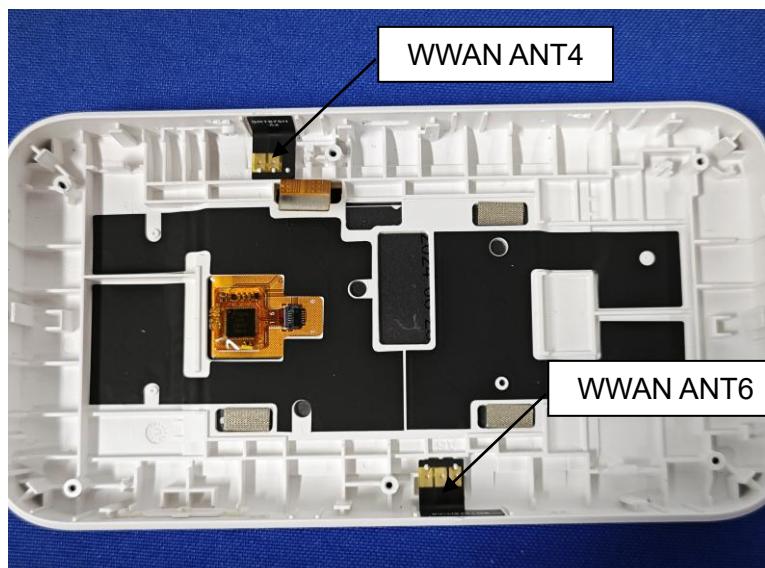
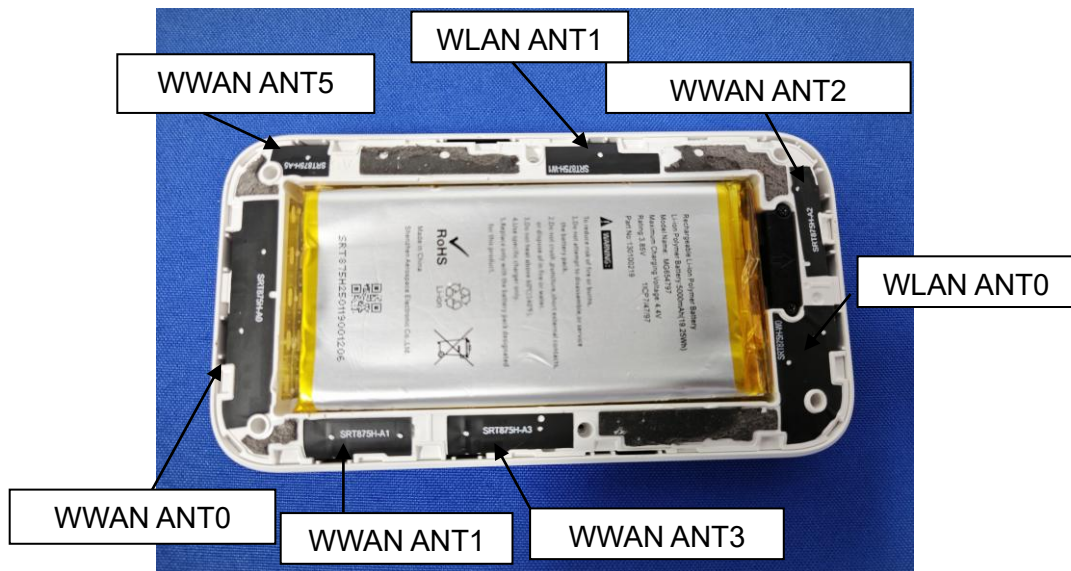
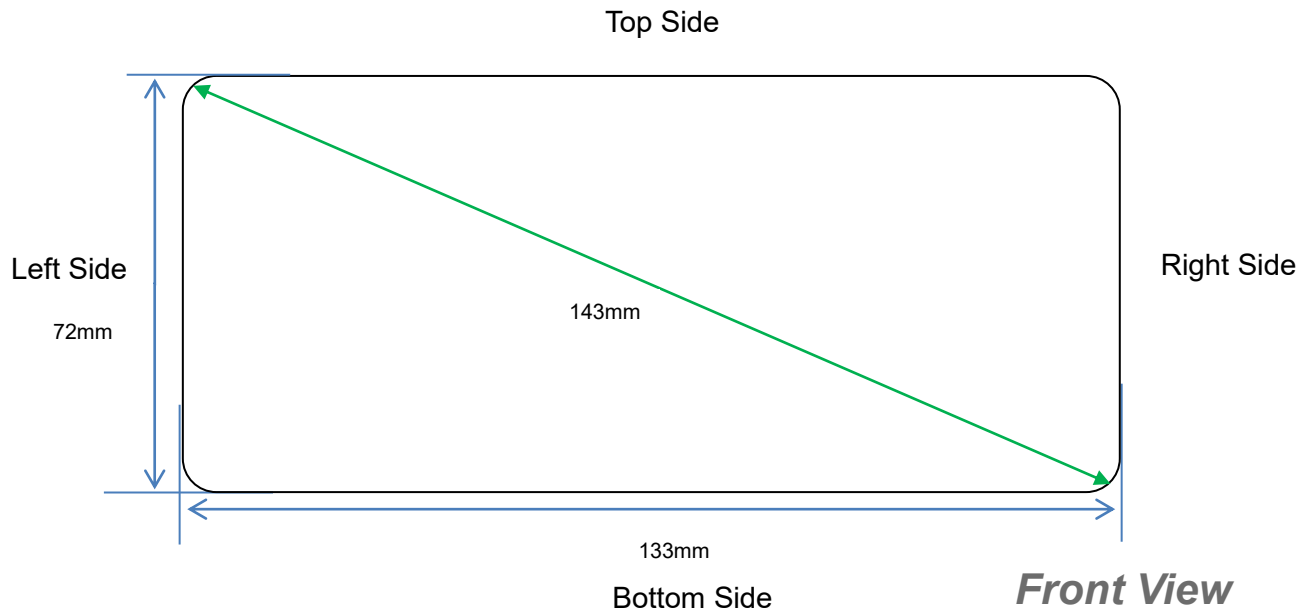
Mode	Channel	Frequency (MHz)	Output Power (dBm)ANT1	Tune-Up	Output Power (dBm)ANT2	Tune-Up	Output Power (dBm)MIMO	Tune-Up
802.11b	1	2412	15.06	16.00	14.50	15.00	/	/
	6	2437	16.13	17.00	11.57	12.00	/	/
	11	2462	14.91	15.00	14.13	15.00	/	/
802.11g	1	2412	15.87	16.00	14.33	15.00	/	/
	6	2437	15.61	16.00	13.91	14.00	/	/
	11	2462	15.97	16.00	14.09	15.00	/	/
802.11n (HT20)	1	2412	15.65	16.00	14.56	15.00	18.15	19.00
	6	2437	15.34	16.00	14.35	15.00	17.88	18.00
	11	2462	15.52	16.00	14.22	15.00	17.93	18.00
802.11n (H40)	3	2422	15.49	16.00	14.93	15.00	18.23	19.00
	6	2437	15.90	16.00	14.66	15.00	18.33	19.00
	9	2452	16.33	17.00	14.57	15.00	18.55	19.00
ax20	1	2412	17.01	18.00	15.13	16.00	19.18	20.00
	6	2437	16.91	17.00	15.35	16.00	19.21	20.00
	11	2462	17.73	18.00	14.84	15.00	19.53	20.00
ax40	3	2422	16.64	17.00	15.64	16.00	19.18	20.00
	6	2437	17.10	18.00	15.65	16.00	19.45	20.00
	9	2452	17.20	18.00	15.54	16.00	19.46	20.00

Mode	Frequency (MHz)	Output Power (dBm)ANT1	Tune-Up	Output Power (dBm)ANT2	Tune-Up	Output Power (dBm)MIMO	Tune-Up
802.11A	5180	14.84	15.00	10.30	11.00	/	/
	5200	17.87	18.00	12.50	12.50	/	/
	5240	14.78	15.00	9.53	10.00	/	/
802.11N20SISO	5180	16.95	17.00	11.77	12.00	18.10	19.00
	5200	16.88	17.00	11.12	12.00	17.90	18.00
	5240	12.68	13.00	7.42	8.00	13.81	14.00
802.11N40SISO	5190	15.96	16.00	10.71	11.00	17.09	18.00
	5230	16.14	17.00	10.24	11.00	17.13	18.00
802.11AC20SISO	5180	16.84	17.00	11.50	12.00	17.95	18.00
	5200	17.39	18.00	11.69	12.00	18.43	19.00
	5240	17.15	18.00	11.65	12.00	18.23	19.00
802.11AC40SISO	5190	15.54	16.00	10.90	11.00	16.82	17.00
	5230	15.65	16.00	10.27	11.00	16.76	17.00
802.11AC80SISO	5210	15.37	16.00	10.64	11.00	16.63	17.00
802.11ax (20)	5180	17.22	18.00	12.09	12.50	18.38	19.00
	5200	16.96	17.00	11.80	12.00	18.12	19.00
	5240	17.64	18.00	11.86	12.00	18.66	19.00
802.11ax (40)	5190	16.38	17.00	10.88	11.00	17.46	18.00
	5230	15.97	16.00	10.84	11.00	17.13	18.00
802.11ax (80)	5210	16.30	17.00	10.68	11.00	17.35	18.00

Mode	Frequency (MHz)	Output Power (dBm)ANT1	Tune-Up	Output Power (dBm)ANT2	Tune-Up	Output Power (dBm)MIMO	Tune-Up
802.11A	5745	15.76	16.00	8.15	9.00	/	/
	5785	15.41	16.00	8.78	9.00	/	/
	5825	14.59	15.00	8.14	9.00	/	/
802.11N20SISO	5745	15.99	16.00	10.46	11.00	17.06	18.00
	5785	16.68	17.00	10.92	11.00	17.70	18.00
	5825	15.75	16.00	9.26	10.00	16.63	17.00

802.11N40SISO	5755	15.64	16.00	9.91	10.00	16.67	17.00
	5795	15.55	16.00	10.17	11.00	16.66	17.00
802.11AC20SISO	5745	16.12	17.00	10.87	11.00	17.25	18.00
	5785	16.37	17.00	10.88	11.00	17.45	18.00
	5825	15.62	16.00	9.45	10.00	16.56	17.00
802.11AC40SISO	5755	15.74	16.00	10.31	11.00	16.83	17.00
	5795	15.89	16.00	9.97	10.00	16.88	17.00
802.11AC80SISO	5775	15.38	16.00	9.72	10.00	16.42	17.00
802.11ax (20)	5745	16.65	17.00	11.23	11.50	17.75	18.00
	5785	16.95	17.00	11.27	11.50	17.99	18.00
	5825	16.26	17.00	9.79	10.00	17.14	18.00
802.11ax (40)	5755	15.83	16.00	10.54	11.00	16.96	17.00
	5795	15.49	16.00	10.06	11.00	16.58	17.00
802.11ax (80)	5775	15.91	16.00	10.14	11.00	16.93	17.00

9. Antenna Location



10. SAR Measurement Results

< WCDMA Band 2>

Test Position of Hotspot with 0mm	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	0.330	0.182	-1.97	21.44	21.50	0.335	2025/4/28	
Back Side	9400/1880	RMC12.2K	0.535	0.301	-0.62	21.44	21.50	0.542	2025/4/28	1#
Left Side	9400/1880	RMC12.2K	0.212	0.110	1.20	21.44	21.50	0.215	2025/4/28	
Right Side	9400/1880	RMC12.2K	0.245	0.137	0.36	21.44	21.50	0.248	2025/4/28	
Top Side	9400/1880	RMC12.2K	0.178	0.078	2.18	21.44	21.50	0.180	2025/4/28	
Bottom Side	9400/1880	RMC12.2K	0.300	0.162	1.14	21.44	21.50	0.304	2025/4/28	

< WCDMA Band 5>

Test Position of Hotspot with 0mm	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	0.180	0.104	0.21	22.64	23.00	0.196	2025/4/24	
Back Side	4182/836.4	RMC12.2K	0.298	0.182	-0.72	22.64	23.00	0.324	2025/4/24	2#
Left Side	4182/836.4	RMC12.2K	0.084	0.020	-3.20	22.64	23.00	0.091	2025/4/24	
Right Side	4182/836.4	RMC12.2K	0.162	0.081	-3.90	22.64	23.00	0.176	2025/4/24	
Top Side	4182/836.4	RMC12.2K	0.141	0.060	1.20	22.64	23.00	0.153	2025/4/24	
Bottom Side	4182/836.4	RMC12.2K	0.138	0.057	0.63	22.64	23.00	0.150	2025/4/24	

< LTE Band 2 >

Test Position of Hotspot with 0mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
1RB										
Front Side	18900/1880	20M QPSK(1,49)	0.294	0.174	-3.52	24.09	24.50	0.323	2025/4/28	
Back Side	18900/1880	20M QPSK(1,49)	0.469	0.283	-4.62	24.09	24.50	0.515	2025/4/28	6#
Left Side	18900/1880	20M QPSK(1,49)	0.215	0.112	0.17	24.09	24.50	0.236	2025/4/28	
Right Side	18900/1880	20M QPSK(1,49)	0.241	0.130	-1.97	24.09	24.50	0.265	2025/4/28	
Top Side	18900/1880	20M QPSK(1,49)	0.179	0.089	-0.07	24.09	24.50	0.197	2025/4/28	
Bottom Side	18900/1880	20M QPSK(1,49)	0.270	0.150	2.54	24.09	24.50	0.297	2025/4/28	
50%RB										
Front Side	18900/1880	20M QPSK(50,24)	0.172	0.089	-4.13	23.07	23.50	0.190	2025/4/28	
Back Side	18900/1880	20M QPSK(50,24)	0.236	0.142	4.53	23.07	23.50	0.261	2025/4/28	
Left Side	18900/1880	20M QPSK(50,24)	0.110	0.027	0.24	23.07	23.50	0.121	2025/4/28	
Right Side	18900/1880	20M QPSK(50,24)	0.131	0.048	4.92	23.07	23.50	0.145	2025/4/28	
Top Side	18900/1880	20M QPSK(50,24)	0.089	0.018	0.92	23.07	23.50	0.098	2025/4/28	
Bottom Side	18900/1880	20M QPSK(50,24)	0.150	0.068	0.87	23.07	23.50	0.166	2025/4/28	

< LTE Band 4>

Test Position of Hotspot with 0mm	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)	0.312	0.171	3.27	23.72	24.00	0.333	2025/4/25	
Back Side	20175/1732.5	20M QPSK(1,49)	0.507	0.289	4.97	23.72	24.00	0.541	2025/4/25	7#
Left Side	20175/1732.5	20M QPSK(1,49)	0.218	0.110	-2.90	23.72	24.00	0.233	2025/4/25	
Right Side	20175/1732.5	20M QPSK(1,49)	0.241	0.131	-3.54	23.72	24.00	0.257	2025/4/25	
Top Side	20175/1732.5	20M QPSK(1,49)	0.187	0.087	0.16	23.72	24.00	0.199	2025/4/25	
Bottom Side	20175/1732.5	20M QPSK(1,49)	0.274	0.150	1.14	23.72	24.00	0.292	2025/4/25	
50%RB										
Front Side	20175/1732.5	20M QPSK(50,24)	0.167	0.090	-0.96	22.62	23.00	0.182	2025/4/25	
Back Side	20175/1732.5	20M QPSK(50,24)	0.265	0.161	0.09	22.62	23.00	0.289	2025/4/25	
Left Side	20175/1732.5	20M QPSK(50,24)	0.182	0.100	-1.62	22.62	23.00	0.199	2025/4/25	
Right Side	20175/1732.5	20M QPSK(50,24)	0.208	0.122	4.07	22.62	23.00	0.227	2025/4/25	
Top Side	20175/1732.5	20M QPSK(50,24)	0.165	0.087	-3.01	22.62	23.00	0.180	2025/4/25	
Bottom Side	20175/1732.5	20M QPSK(50,24)	0.235	0.140	2.05	22.62	23.00	0.256	2025/4/25	

< LTE Band 5>

Test Position of Hotspot with 0mm	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(1,49)	0.198	0.116	-0.21	24.31	24.50	0.207	2025/4/24	
Back Side	20525/836.5	10M QPSK(1,49)	0.309	0.189	2.90	24.31	24.50	0.323	2025/4/24	8#
Left Side	20525/836.5	10M QPSK(1,49)	0.100	0.050	1.74	24.31	24.50	0.104	2025/4/24	
Right Side	20525/836.5	10M QPSK(1,49)	0.167	0.100	-0.48	24.31	24.50	0.174	2025/4/24	
Top Side	20525/836.5	10M QPSK(1,49)	0.140	0.081	-0.51	24.31	24.50	0.146	2025/4/24	
Bottom Side	20525/836.5	10M QPSK(1,49)	0.136	0.077	0.21	24.31	24.50	0.142	2025/4/24	
50%RB										
Front Side	20525/836.5	10M QPSK(25,24)	0.113	0.060	2.36	23.30	24.00	0.133	2025/4/24	
Back Side	20525/836.5	10M QPSK(25,24)	0.177	0.104	0.92	23.30	24.00	0.208	2025/4/24	
Left Side	20525/836.5	10M QPSK(25,24)	0.050	0.020	-0.61	23.30	24.00	0.059	2025/4/24	
Right Side	20525/836.5	10M QPSK(25,24)	0.095	0.042	-1.11	23.30	24.00	0.112	2025/4/24	
Top Side	20525/836.5	10M QPSK(25,24)	0.074	0.036	3.75	23.30	24.00	0.087	2025/4/24	
Bottom Side	20525/836.5	10M QPSK(25,24)	0.072	0.030	2.58	23.30	24.00	0.085	2025/4/24	

< LTE Band7 >

Test Position of Hotspot with 0mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	21100/2535	20M QPSK(1,49)	0.148	0.089	2.02	23.79	24.00	0.155	2025/4/30	
Back Side	21100/2535	20M QPSK(1,49)	0.335	0.212	2.84	23.79	24.00	0.352	2025/4/30	9#
Left Side	21100/2535	20M QPSK(1,49)	0.050	0.015	-0.07	23.79	24.00	0.052	2025/4/30	
Right Side	21100/2535	20M QPSK(1,49)	0.102	0.048	1.02	23.79	24.00	0.107	2025/4/30	
Top Side	21100/2535	20M QPSK(1,49)	0.120	0.060	0.56	23.79	24.00	0.126	2025/4/30	
Bottom Side	21100/2535	20M QPSK(1,49)	0.078	0.030	3.69	23.79	24.00	0.082	2025/4/30	
50%RB										
Front Side	21100/2535	20M QPSK(50,49)	0.087	0.051	2.30	22.79	23.00	0.091	2025/4/30	
Back Side	21100/2535	20M QPSK(50,49)	0.184	0.121	3.28	22.79	23.00	0.193	2025/4/30	
Left Side	21100/2535	20M QPSK(50,49)	0.030	0.013	-3.21	22.79	23.00	0.031	2025/4/30	
Right Side	21100/2535	20M QPSK(50,49)	0.054	0.032	1.14	22.79	23.00	0.057	2025/4/30	
Top Side	21100/2535	20M QPSK(50,49)	0.061	0.040	2.89	22.79	23.00	0.064	2025/4/30	
Bottom Side	21100/2535	20M QPSK(50,49)	0.041	0.020	-3.02	22.79	23.00	0.043	2025/4/30	

< LTE Band 12 >

Test Position of Hotspot with 0mm	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	23095/707.5	10M QPSK(1,24)	0.234	0.132	2.45	24.34	24.50	0.243	2025/4/23	
Back Side	23095/707.5	10M QPSK(1,24)	0.345	0.203	-2.69	24.34	24.50	0.358	2025/4/23	10#
Left Side	23095/707.5	10M QPSK(1,24)	0.129	0.060	2.47	24.34	24.50	0.134	2025/4/23	
Right Side	23095/707.5	10M QPSK(1,24)	0.201	0.100	2.37	24.34	24.50	0.209	2025/4/23	
Top Side	23095/707.5	10M QPSK(1,24)	0.174	0.082	2.76	24.34	24.50	0.181	2025/4/23	
Bottom Side	23095/707.5	10M QPSK(1,24)	0.169	0.080	0.12	24.34	24.50	0.175	2025/4/23	
50%RB										
Front Side	23095/707.5	10M QPSK(25,24)	0.130	0.072	0.31	23.29	23.50	0.136	2025/4/23	
Back Side	23095/707.5	10M QPSK(25,24)	0.200	0.110	2.71	23.29	23.50	0.210	2025/4/23	
Left Side	23095/707.5	10M QPSK(25,24)	0.060	0.017	-3.24	23.29	23.50	0.063	2025/4/23	
Right Side	23095/707.5	10M QPSK(25,24)	0.112	0.053	-0.50	23.29	23.50	0.118	2025/4/23	
Top Side	23095/707.5	10M QPSK(25,24)	0.087	0.036	0.67	23.29	23.50	0.091	2025/4/23	
Bottom Side	23095/707.5	10M QPSK(25,24)	0.080	0.031	2.01	23.29	23.50	0.084	2025/4/23	

< LTE Band 17>

Test Position of Hotspot with 0mm	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	23790/710	10M QPSK(1,24)	0.222	0.119	-2.14	23.91	24.00	0.227	2025/4/23	
Back Side	23790/710	10M QPSK(1,24)	0.368	0.198	-0.39	23.91	24.00	0.376	2025/4/23	11#
Left Side	23790/710	10M QPSK(1,24)	0.142	0.058	0.61	23.91	24.00	0.145	2025/4/23	
Right Side	23790/710	10M QPSK(1,24)	0.198	0.101	-0.09	23.91	24.00	0.202	2025/4/23	
Top Side	23790/710	10M QPSK(1,24)	0.170	0.078	-2.70	23.91	24.00	0.174	2025/4/23	
Bottom Side	23790/710	10M QPSK(1,24)	0.166	0.075	1.15	23.91	24.00	0.169	2025/4/23	
50%RB										
Front Side	23790/710	10M QPSK(25,12)	0.122	0.070	-1.73	22.80	23.00	0.128	2025/4/23	
Back Side	23790/710	10M QPSK(25,12)	0.191	0.117	2.18	22.80	23.00	0.200	2025/4/23	
Left Side	23790/710	10M QPSK(25,12)	0.057	0.025	-0.55	22.80	23.00	0.060	2025/4/23	
Right Side	23790/710	10M QPSK(25,12)	0.100	0.056	3.62	22.80	23.00	0.105	2025/4/23	
Top Side	23790/710	10M QPSK(25,12)	0.084	0.039	1.79	22.80	23.00	0.088	2025/4/23	
Bottom Side	23790/710	10M QPSK(25,12)	0.080	0.035	2.36	22.80	23.00	0.084	2025/4/23	

< LTE Band 41>

Test Position of Hotspot with 0mm	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	40740/2605	20M QPSK(1,49)	0.228	0.150	-3.13	23.71	24.50	0.273	2025/4/30	
Back Side	40740/2605	20M QPSK(1,49)	0.367	0.252	-4.17	23.71	24.50	0.440	2025/4/30	12#
Left Side	40740/2605	20M QPSK(1,49)	0.120	0.052	-3.29	23.71	24.50	0.144	2025/4/30	
Right Side	40740/2605	20M QPSK(1,49)	0.170	0.100	0.97	23.71	24.50	0.204	2025/4/30	
Top Side	40740/2605	20M QPSK(1,49)	0.200	0.120	-3.98	23.71	24.50	0.240	2025/4/30	
Bottom Side	40740/2605	20M QPSK(1,49)	0.145	0.078	0.25	23.71	24.50	0.174	2025/4/30	
50%RB										
Front Side	40740/2605	20M QPSK(50,49)	0.120	0.077	-1.83	22.51	23.00	0.134	2025/4/30	
Back Side	40740/2605	20M QPSK(50,49)	0.204	0.151	0.32	22.51	23.00	0.228	2025/4/30	
Left Side	40740/2605	20M QPSK(50,49)	0.028	0.017	-0.52	22.51	23.00	0.031	2025/4/30	
Right Side	40740/2605	20M QPSK(50,49)	0.078	0.039	-1.05	22.51	23.00	0.087	2025/4/30	
Top Side	40740/2605	20M QPSK(50,49)	0.100	0.050	0.21	22.51	23.00	0.112	2025/4/30	
Bottom Side	40740/2605	20M QPSK(50,49)	0.050	0.028	1.11	22.51	23.00	0.056	2025/4/30	

< NR n77>

Test Position of Hotspot with 0mm	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	633334/3500	50M QPSK(1,1)	0.162	0.099	2.87	23.13	24.00	0.198	2025/5/26	
Back Side	633334/3500	50M QPSK(1,1)	0.220	0.140	-3.71	23.13	24.00	0.269	2025/5/26	13#
Left Side	633334/3500	50M QPSK(1,1)	0.121	0.050	-1.64	23.13	24.00	0.148	2025/5/26	
Right Side	633334/3500	50M QPSK(1,1)	0.070	0.025	0.81	23.13	24.00	0.086	2025/5/26	
Top Side	633334/3500	50M QPSK(1,1)	0.098	0.038	0.51	23.13	24.00	0.120	2025/5/26	
Bottom Side	633334/3500	50M QPSK(1,1)	0.140	0.070	0.36	23.13	24.00	0.171	2025/5/26	
50%RB										
Front Side	633334/3500	50M QPSK(135,67)	0.090	0.052	1.30	23.08	24.00	0.111	2025/5/26	
Back Side	633334/3500	50M QPSK(135,67)	0.117	0.076	3.25	23.08	24.00	0.145	2025/5/26	
Left Side	633334/3500	50M QPSK(135,67)	0.056	0.018	-1.50	23.08	24.00	0.069	2025/5/26	
Right Side	633334/3500	50M QPSK(135,67)	0.020	0.008	2.28	23.08	24.00	0.025	2025/5/26	
Top Side	633334/3500	50M QPSK(135,67)	0.039	0.012	-1.48	23.08	24.00	0.048	2025/5/26	
Bottom Side	633334/3500	50M QPSK(135,67)	0.075	0.032	1.14	23.08	24.00	0.093	2025/5/26	

< WiFi 2.4G> ANT0

Test Position of Hotspot with 0mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	6/2437	802.11b	0.132	0.075	-3.98	16.13	17.00	0.161	2025/4/29	
Back Side	6/2437	802.11b	0.202	0.115	-1.82	16.13	17.00	0.247	2025/4/29	5#
Back Side	11/2462	ax20	0.191	0.110	2.54	17.73	18.00	0.203	2025/4/29	
Left Side	6/2437	802.11b	0.110	0.057	-0.48	16.13	17.00	0.134	2025/4/29	
Right Side	6/2437	802.11b	0.058	0.021	0.24	16.13	17.00	0.071	2025/4/29	
Top Side	6/2437	802.11b	0.074	0.030	1.12	16.13	17.00	0.090	2025/4/29	
Bottom Side	6/2437	802.11b	0.090	0.041	3.60	16.13	17.00	0.110	2025/4/29	

< WiFi 5.2G> ANT0

Test Position of Hotspot with 0mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	40/5200	802.11a	0.384	0.261	-3.66	17.87	18.00	0.396	2025/5/27	
Back Side	40/5200	802.11a	0.507	0.435	-3.89	17.87	18.00	0.522	2025/5/27	3#
Left Side	40/5200	802.11a	0.350	0.231	-3.73	17.87	18.00	0.361	2025/5/27	
Right Side	40/5200	802.11a	0.274	0.153	3.08	17.87	18.00	0.282	2025/5/27	
Top Side	40/5200	802.11a	0.300	0.180	3.12	17.87	18.00	0.309	2025/5/27	
Bottom Side	40/5200	802.11a	0.320	0.208	1.16	17.87	18.00	0.330	2025/5/27	

< WiFi 5.8G> ANT0

Test Position of Hotspot with 0mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	157/5785	802.11ax (20)	0.354	0.273	3.45	16.95	17.00	0.358	2025/5/28	
Back Side	157/5785	802.11ax (20)	0.478	0.362	-2.39	16.95	17.00	0.484	2025/5/28	4#
Left Side	157/5785	802.11ax (20)	0.321	0.250	3.07	16.95	17.00	0.325	2025/5/28	
Right Side	157/5785	802.11ax (20)	0.250	0.174	-0.78	16.95	17.00	0.253	2025/5/28	
Top Side	157/5785	802.11ax (20)	0.271	0.200	1.18	16.95	17.00	0.274	2025/5/28	
Bottom Side	157/5785	802.11ax (20)	0.308	0.219	2.54	16.95	17.00	0.312	2025/5/28	

< WiFi 2.4G> ANT1

Test Position of Hotspot with 0mm	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	1/2412	802.11b	0.146	0.084	0.21	14.50	15.00	0.164	2025/4/29	
Back Side	1/2412	802.11b	0.237	0.139	2.07	14.50	15.00	0.266	2025/4/29	16#
Back Side	6/2437	ax40	0.221	0.128	0.25	15.65	16.00	0.240	2025/4/29	
Left Side	1/2412	802.11b	0.102	0.045	1.14	14.50	15.00	0.114	2025/4/29	
Right Side	1/2412	802.11b	0.056	0.018	3.40	14.50	15.00	0.063	2025/4/29	
Top Side	1/2412	802.11b	0.120	0.061	0.21	14.50	15.00	0.135	2025/4/29	
Bottom Side	1/2412	802.11b	0.078	0.027	0.98	14.50	15.00	0.088	2025/4/29	

< WiFi 5.2G> ANT1

Test Position of Hotspot with 0mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	40/5200	802.11a	0.302	0.210	0.87	12.50	12.50	0.302	2025/5/27	
Back Side	40/5200	802.11a	0.471	0.343	1.65	12.50	12.50	0.471	2025/5/27	14#
Left Side	40/5200	802.11a	0.235	0.160	1.14	12.50	12.50	0.235	2025/5/27	
Right Side	40/5200	802.11a	0.179	0.108	3.65	12.50	12.50	0.179	2025/5/27	
Top Side	40/5200	802.11a	0.268	0.187	-1.05	12.50	12.50	0.268	2025/5/27	
Bottom Side	40/5200	802.11a	0.215	0.137	-0.74	12.50	12.50	0.215	2025/5/27	

< WiFi 5.8G> ANT1

Test Position of Hotspot with 0mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	157/5785	802.11ax (20)	0.418	0.312	1.54	11.27	11.50	0.441	2025/5/28	
Back Side	157/5785	802.11ax (20)	0.492	0.398	2.54	11.27	11.50	0.519	2025/5/28	15#
Left Side	157/5785	802.11ax (20)	0.365	0.256	0.69	11.27	11.50	0.385	2025/5/28	
Right Side	157/5785	802.11ax (20)	0.284	0.181	4.21	11.27	11.50	0.299	2025/5/28	
Top Side	157/5785	802.11ax (20)	0.392	0.281	0.36	11.27	11.50	0.413	2025/5/28	
Bottom Side	157/5785	802.11ax (20)	0.321	0.218	1.20	11.27	11.50	0.338	2025/5/28	

11. Simultaneous Transmission Analysis

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

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

2) $\text{SPLSR} = \frac{(\text{SAR}_1 + \text{SAR}_2)^{1.5}}{r}$ / (min. separation distance, mm), and the peak separation distance is

determined from the square root of $[(x_1 - x_2)^2 + (y_1 - y_2)^2 + (z_1 - z_2)^2]$, where

(x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.

If $\text{SPLSR} \leq 0.04$, simultaneously transmission SAR measurement is not necessary.

No.	Simultaneous Tx	Body-worn	Hotspot
1	WWAN ANT0+WLAN	Yes	Yes
2	WWAN ANT3+WLAN	Yes	Yes
3	WWAN ANT5+WLAN	Yes	Yes
4	NR ANT6+WLAN	Yes	Yes

Exposure Position		MAX WWAN Band	WLAN(ANT0+ANT1)	Simultaneous Tx SAR(W/Kg)
		SAR(W/Kg)	SAR(W/Kg)	
Body&Hotspot	Front Side	0.335	0.799	1.134
	Back Side	0.542	1.003	1.545
	Left Side	0.236	0.710	0.946
	Right Side	0.265	0.552	0.817
	Top Side	0.199	0.687	0.886
	Bottom Side	0.304	0.650	0.954

Exposure Position		NR Band	WLAN(ANT0+ANT1)	Simultaneous Tx SAR(W/Kg)
		SAR(W/Kg)	SAR(W/Kg)	
Body&Hotspot	Front Side	0.198	0.799	0.997
	Back Side	0.269	1.003	1.272
	Left Side	0.148	0.710	0.858
	Right Side	0.086	0.552	0.638
	Top Side	0.120	0.687	0.807
	Bottom Side	0.171	0.650	0.821

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

Appendix A. Photo documentation

Refer to appendix Test Setup photo---SAR

Appendix B. System Check Plots

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MEASUREMENT 6 System Performance Check - 2600MHz
MEASUREMENT 7 System Performance Check - 3500MHz
MEASUREMENT 8 System Performance Check - 5200MHz
MEASUREMENT 9 System Performance Check - 5800MHz

MEASUREMENT 1

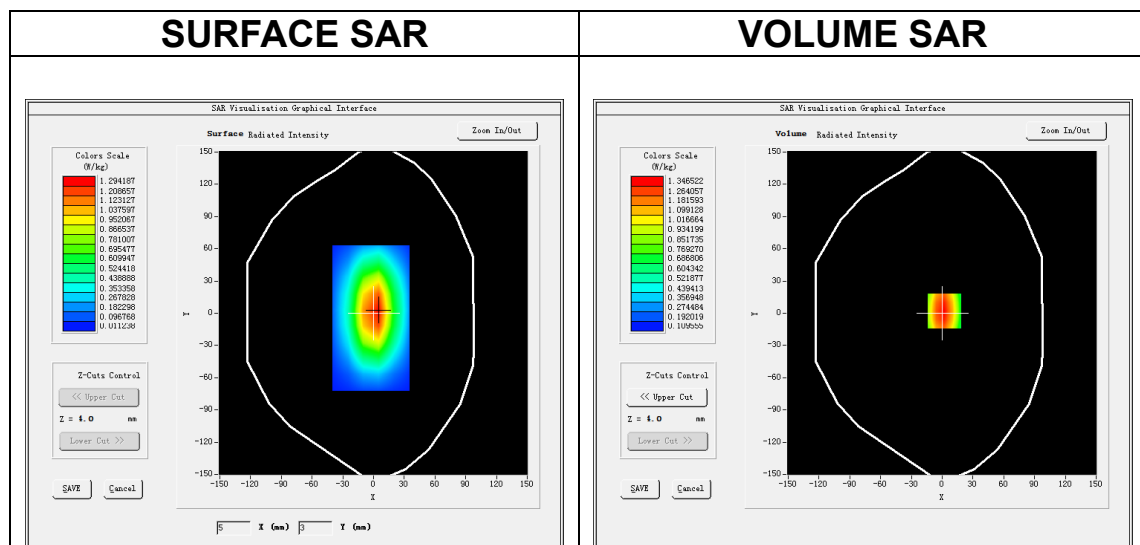
Date of measurement: 23/4/2025

A. Experimental conditions.

Area Scan	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Dipole</u>
Band	<u>CW750</u>
Channels	<u>Middle</u>
Signal	<u>CW (Crest factor: 1.0)</u>
ConvF	<u>1.65</u>

B. SAR Measurement Results

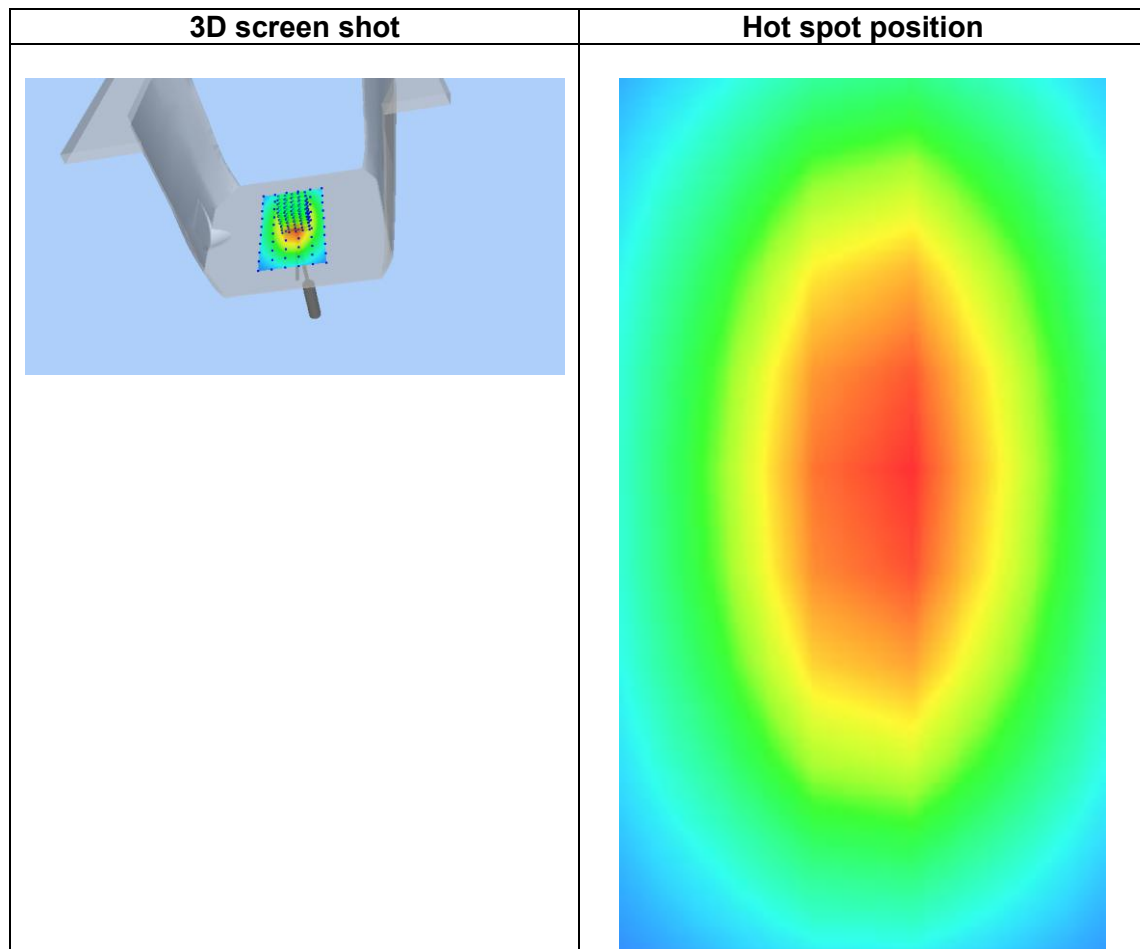
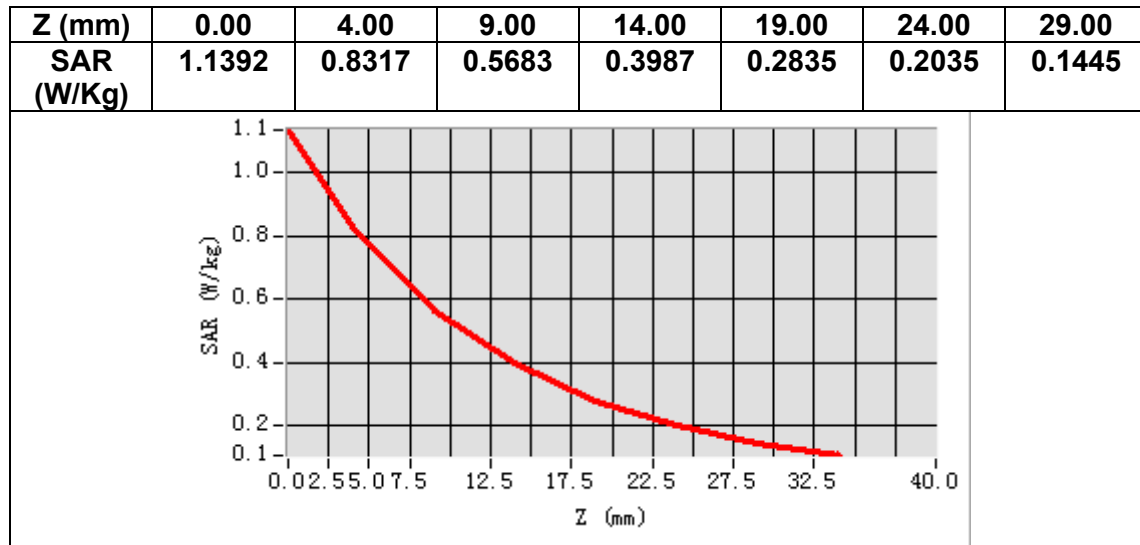
Frequency (MHz)	750.000000
Relative permittivity (real part)	42.562010
Relative permittivity (imaginary part)	19.132740
Conductivity (S/m)	0.912054
Variation (%)	0.210000



Maximum location: X=2.00, Y=2.00

SAR Peak: 1.87 W/kg

SAR 10g (W/Kg)	0.621031
SAR 1g (W/Kg)	0.930125



MEASUREMENT 2

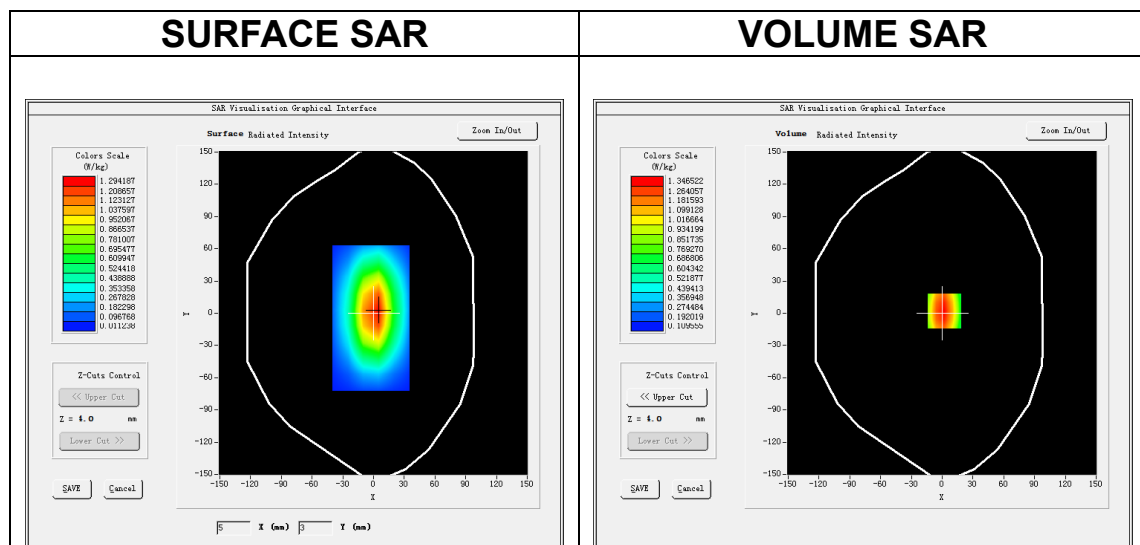
Date of measurement: 24/4/2025

A. Experimental conditions.

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

B. SAR Measurement Results

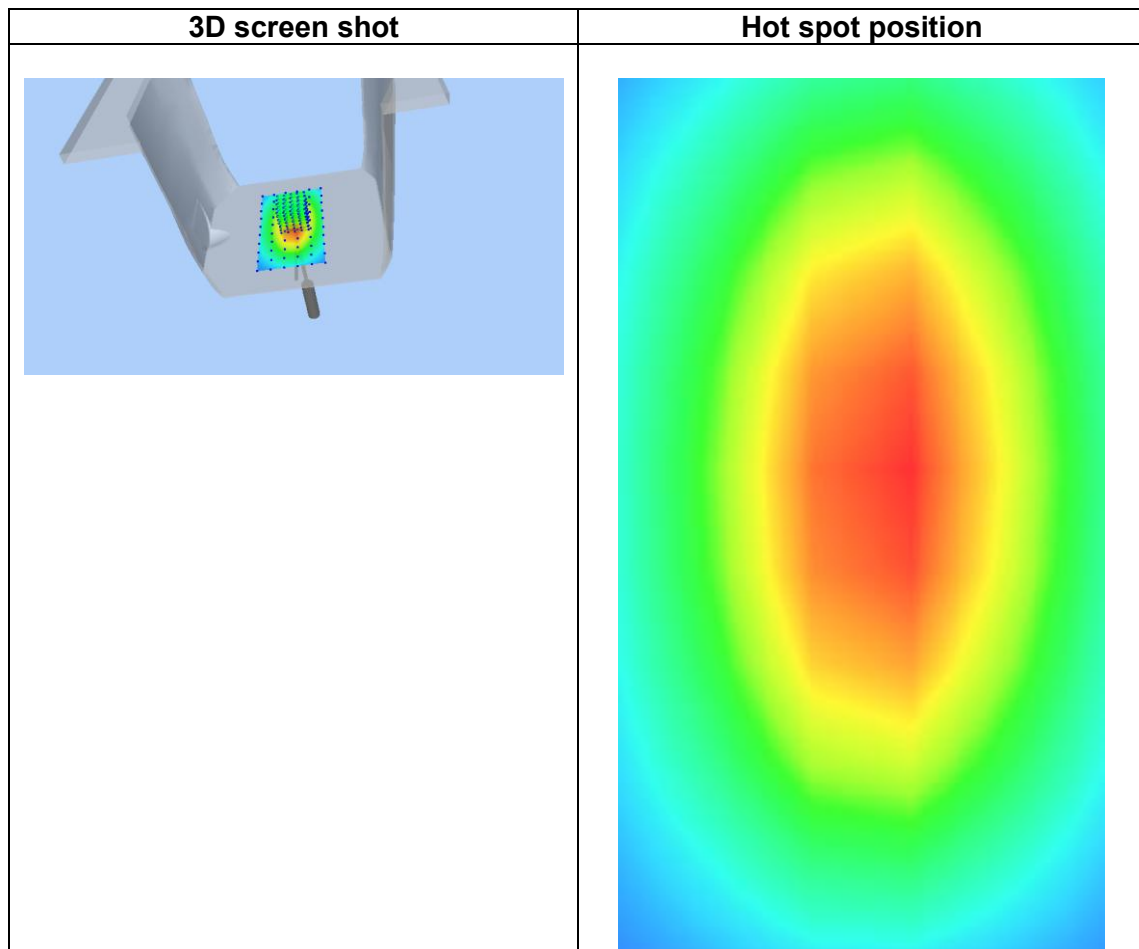
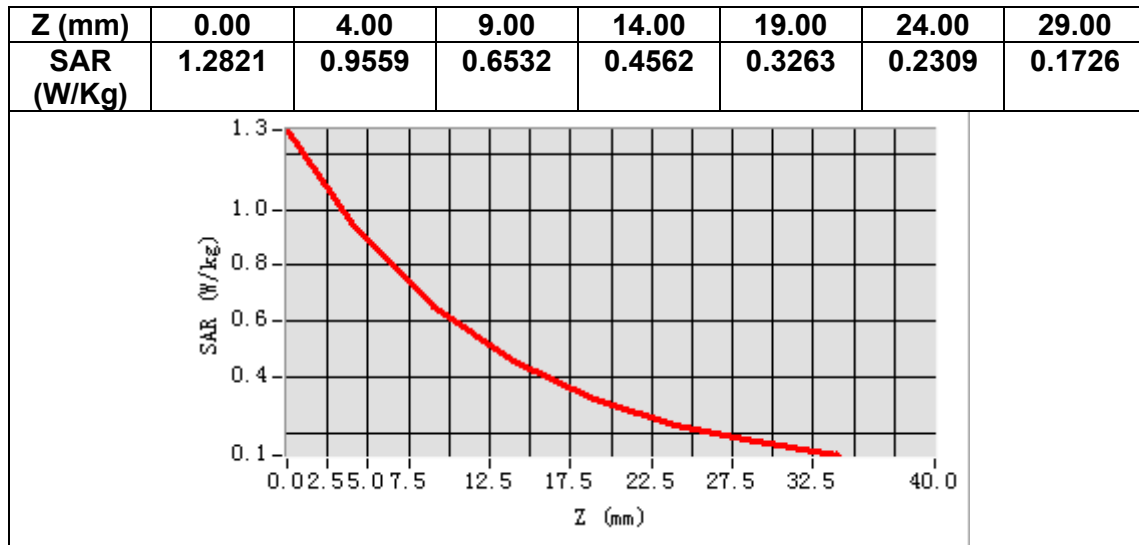
Frequency (MHz)	835.000000
Relative permittivity (real part)	42.012031
Relative permittivity (imaginary part)	19.131021
Conductivity (S/m)	0.941030
Variation (%)	0.310000



Maximum location: X=2.00, Y=2.00

SAR Peak: 1.87 W/kg

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



MEASUREMENT 3

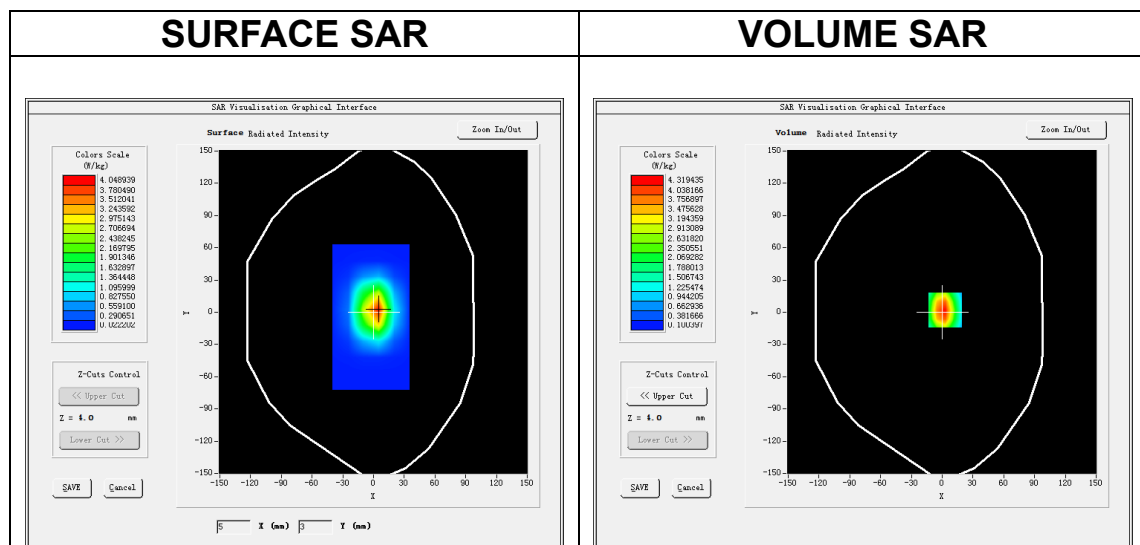
Date of measurement: 25/4/2025

A. Experimental conditions.

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

B. SAR Measurement Results

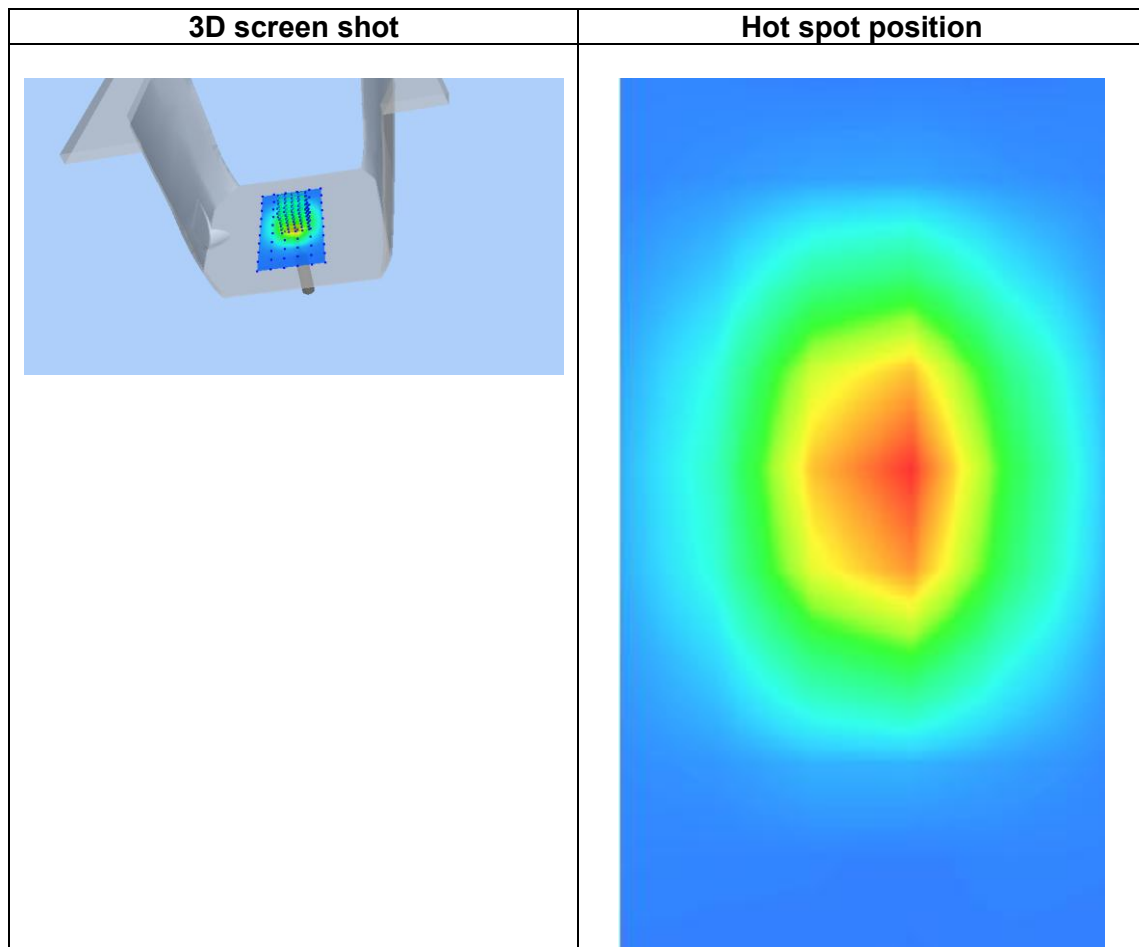
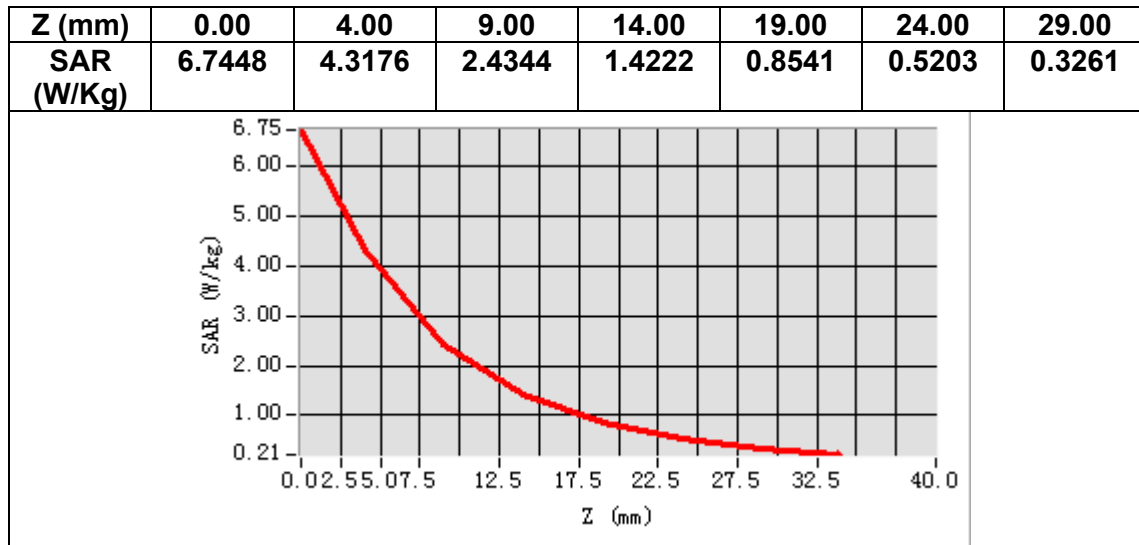
Frequency (MHz)	1800.000000
Relative permittivity (real part)	39.606403
Relative permittivity (imaginary part)	14.067180
Conductivity (S/m)	1.406718
Variation (%)	-0.140000



Maximum location: X=3.00, Y=2.00

SAR Peak: 6.82 W/kg

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



MEASUREMENT 4

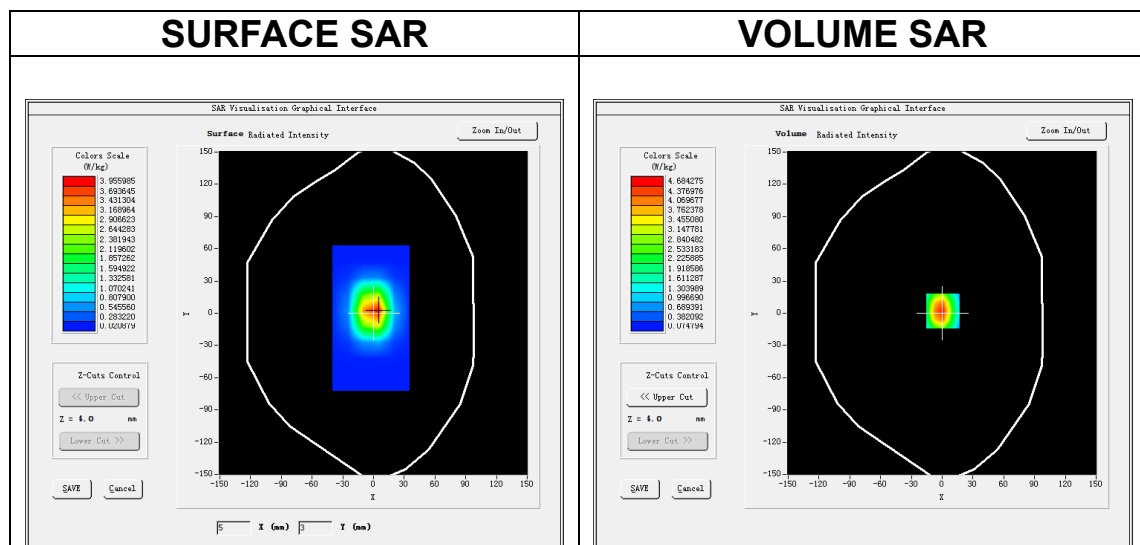
Date of measurement: 28/4/2025

A. Experimental conditions.

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

B. SAR Measurement Results

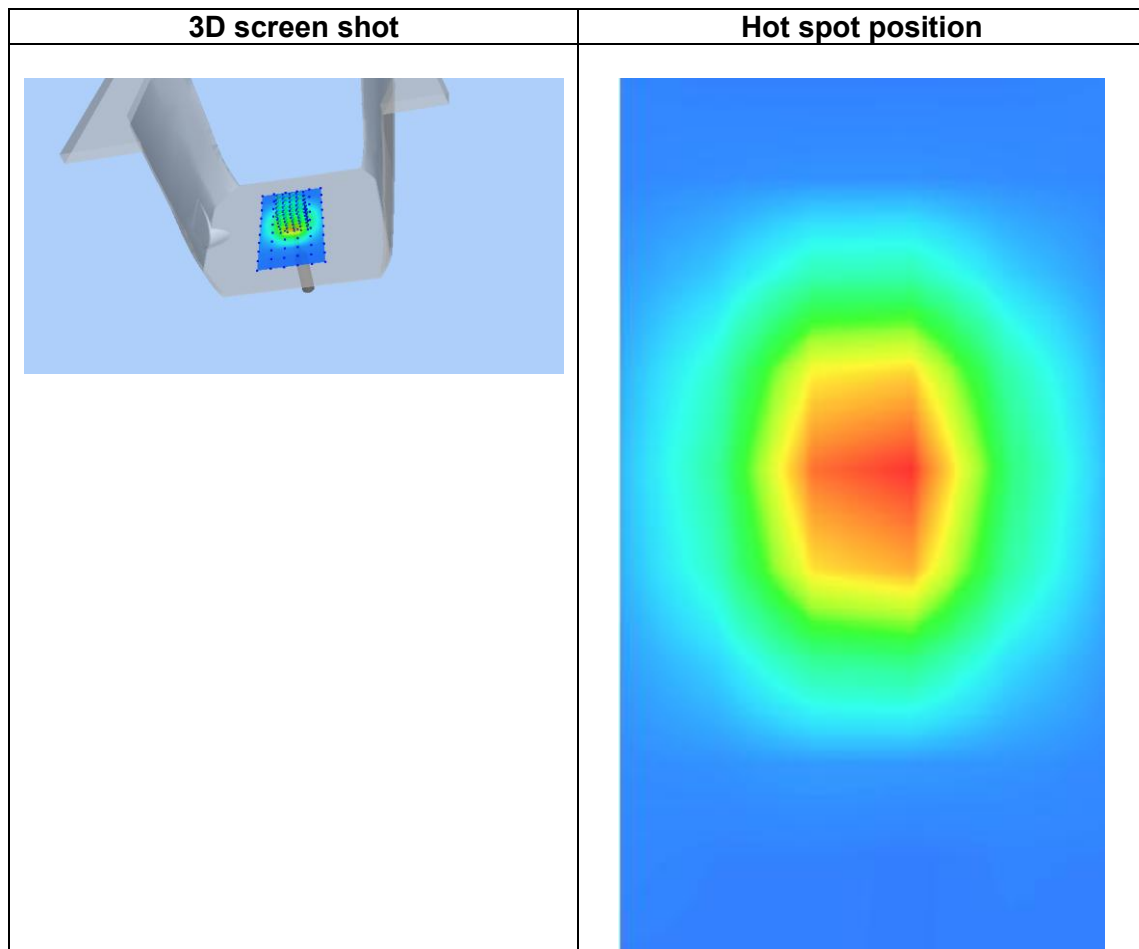
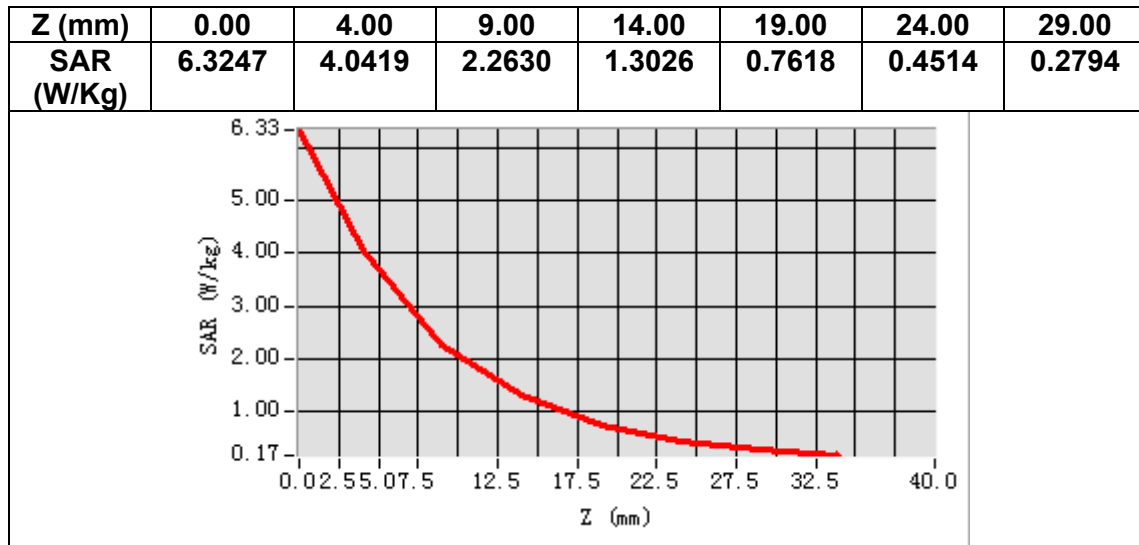
Frequency (MHz)	1900.000000
Relative permittivity (real part)	41.420140
Relative permittivity (imaginary part)	12.570123
Conductivity (S/m)	1.390503
Variation (%)	-0.440000



Maximum location: X=1.00, Y=2.00

SAR Peak: 7.65 W/kg

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



MEASUREMENT 5

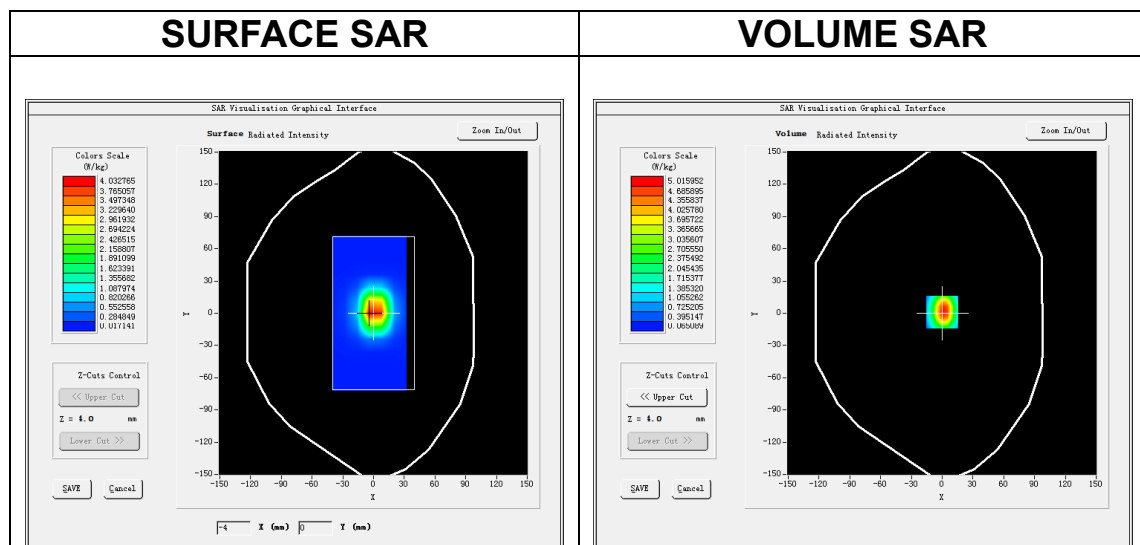
Date of measurement: 29/4/2025

A. Experimental conditions.

Area Scan	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
ZoomScan	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Dipole</u>
Band	<u>CW2450</u>
Channels	<u>Middle</u>
Signal	<u>CW (Crest factor: 1.0)</u>
ConvF	<u>2.38</u>

B. SAR Measurement Results

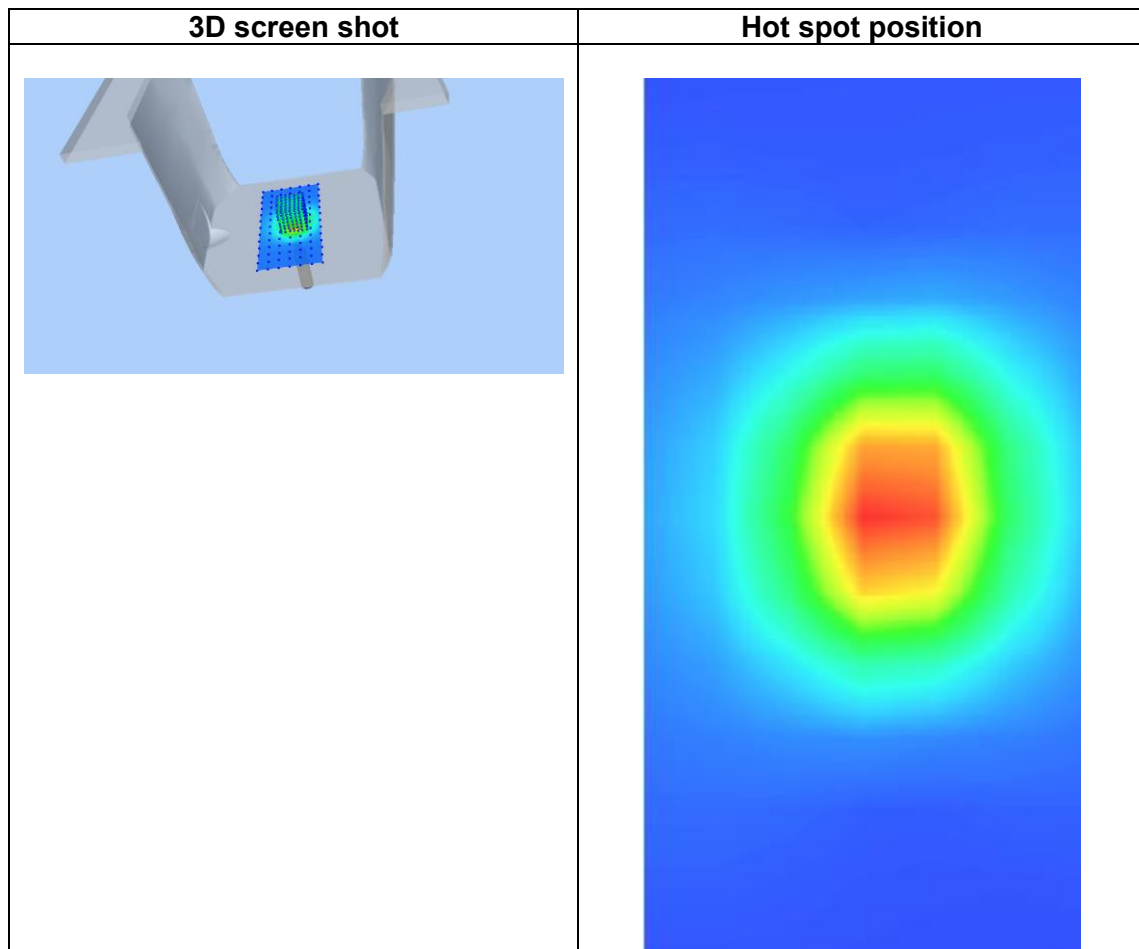
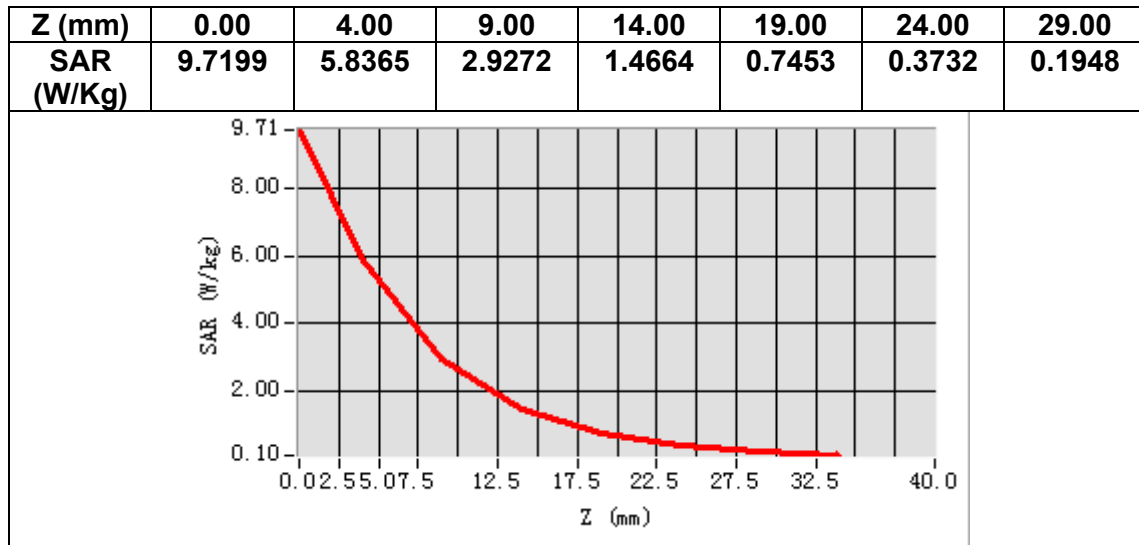
Frequency (MHz)	2450.000000
Relative permittivity (real part)	40.408511
Relative permittivity (imaginary part)	13.399264
Conductivity (S/m)	1.823789
Variation (%)	-1.250000



Maximum location: X=0.00, Y=1.00

SAR Peak: 8.14 W/kg

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



MEASUREMENT 6

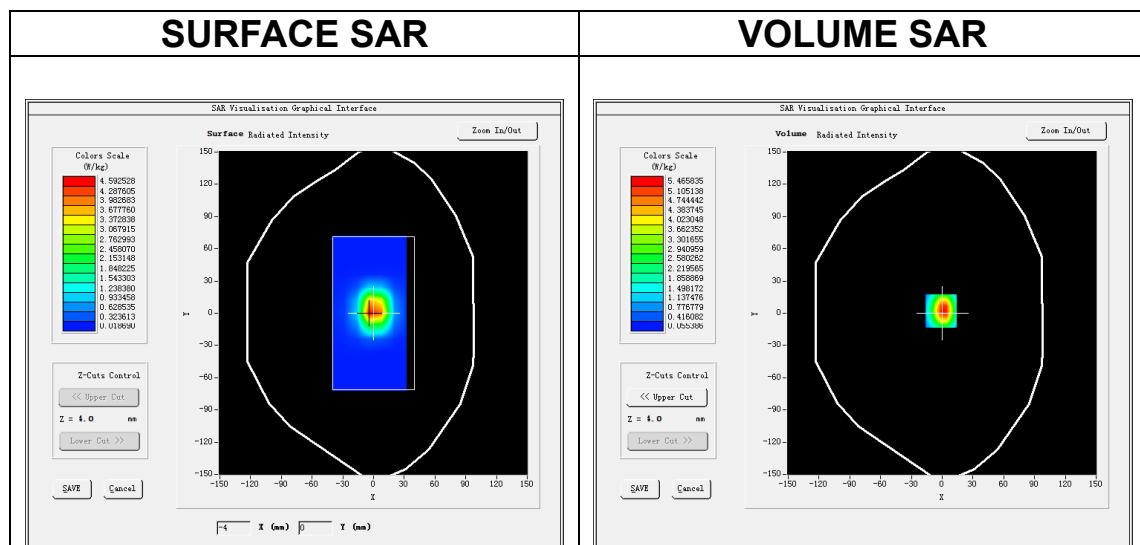
Date of measurement: 30/4/2025

A. Experimental conditions.

Area Scan	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
ZoomScan	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Dipole</u>
Band	<u>CW2600</u>
Channels	<u>Middle</u>
Signal	<u>CW (Crest factor: 1.0)</u>
ConvF	<u>2.35</u>

B. SAR Measurement Results

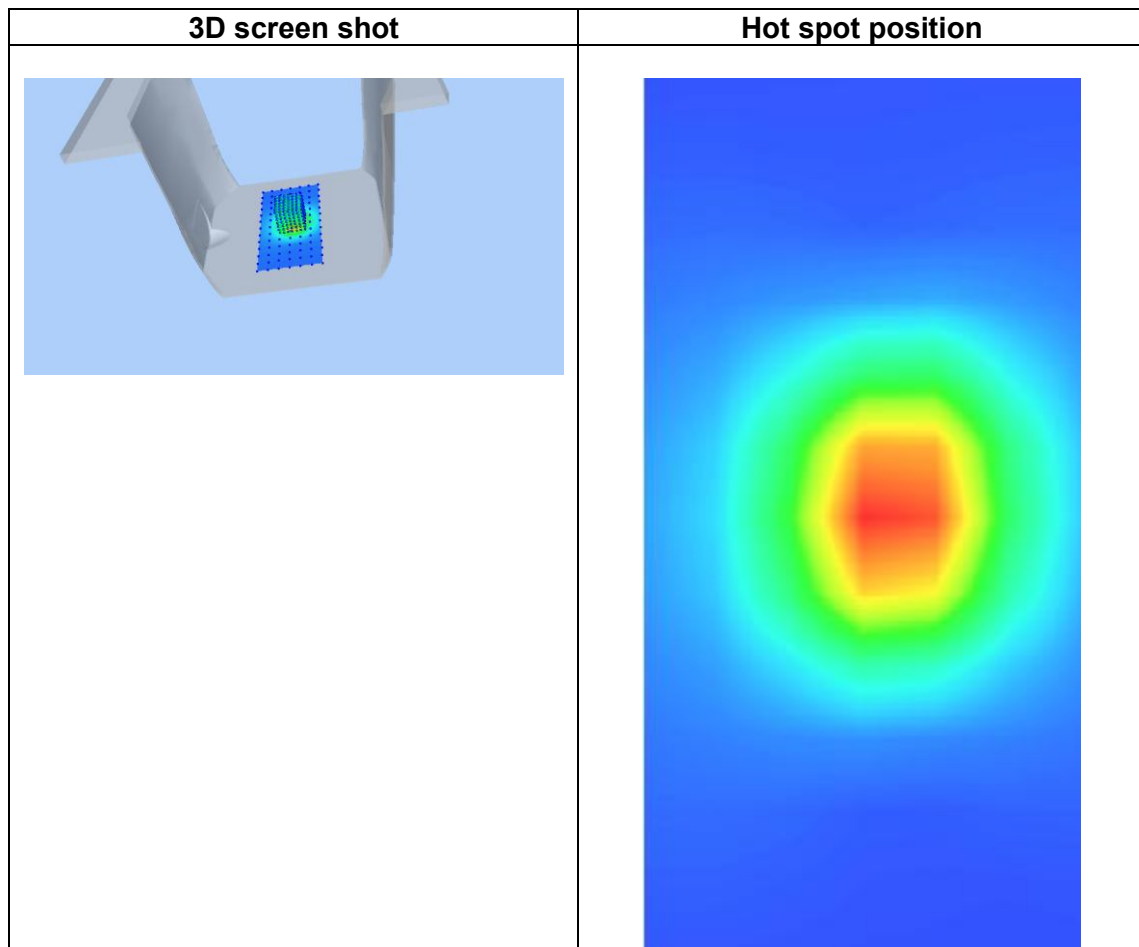
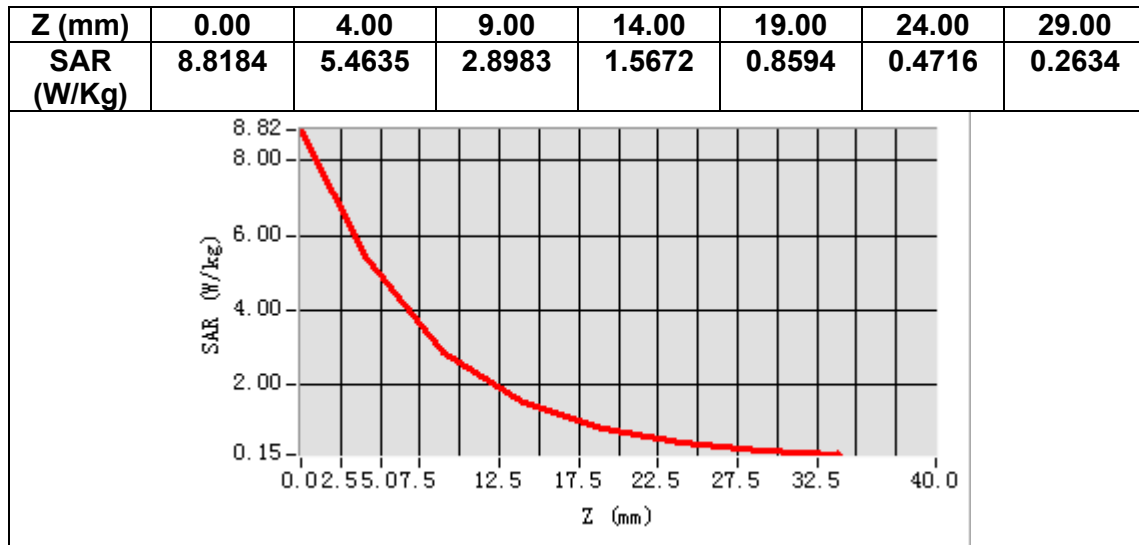
Frequency (MHz)	2600.000000
Relative permittivity (real part)	39.432362
Relative permittivity (imaginary part)	13.768602
Conductivity (S/m)	1.988798
Variation (%)	-3.980000



Maximum location: X=-1.00, Y=2.00

SAR Peak: 9.07 W/kg

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



MEASUREMENT 7

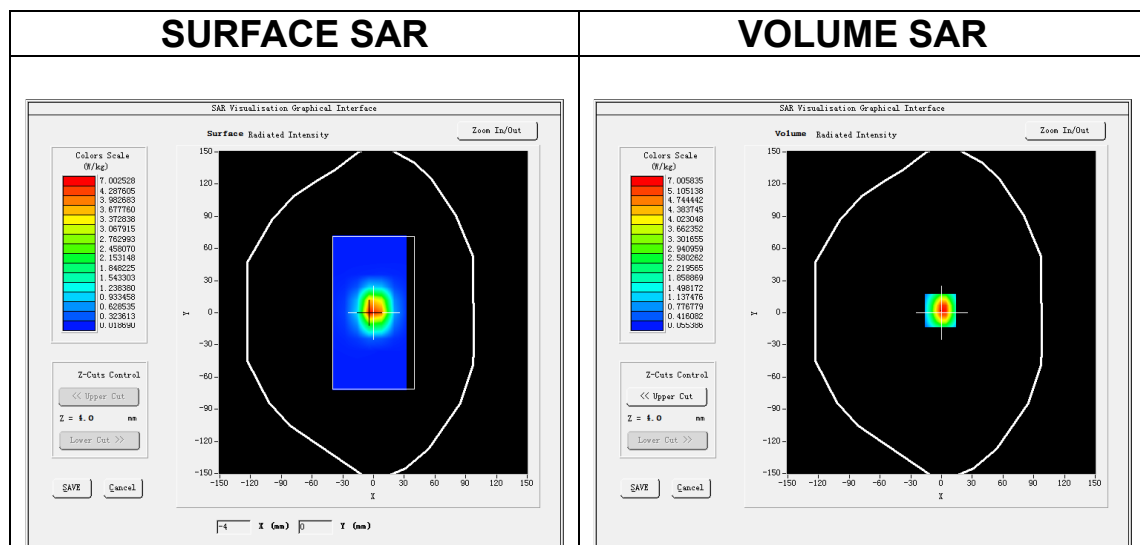
Date of measurement: 26/5/2025

A. Experimental conditions.

Area Scan	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
ZoomScan	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Dipole</u>
Band	<u>CW3500</u>
Channels	<u>Middle</u>
Signal	<u>CW (Crest factor: 1.0)</u>
ConvF	<u>1.98</u>

B. SAR Measurement Results

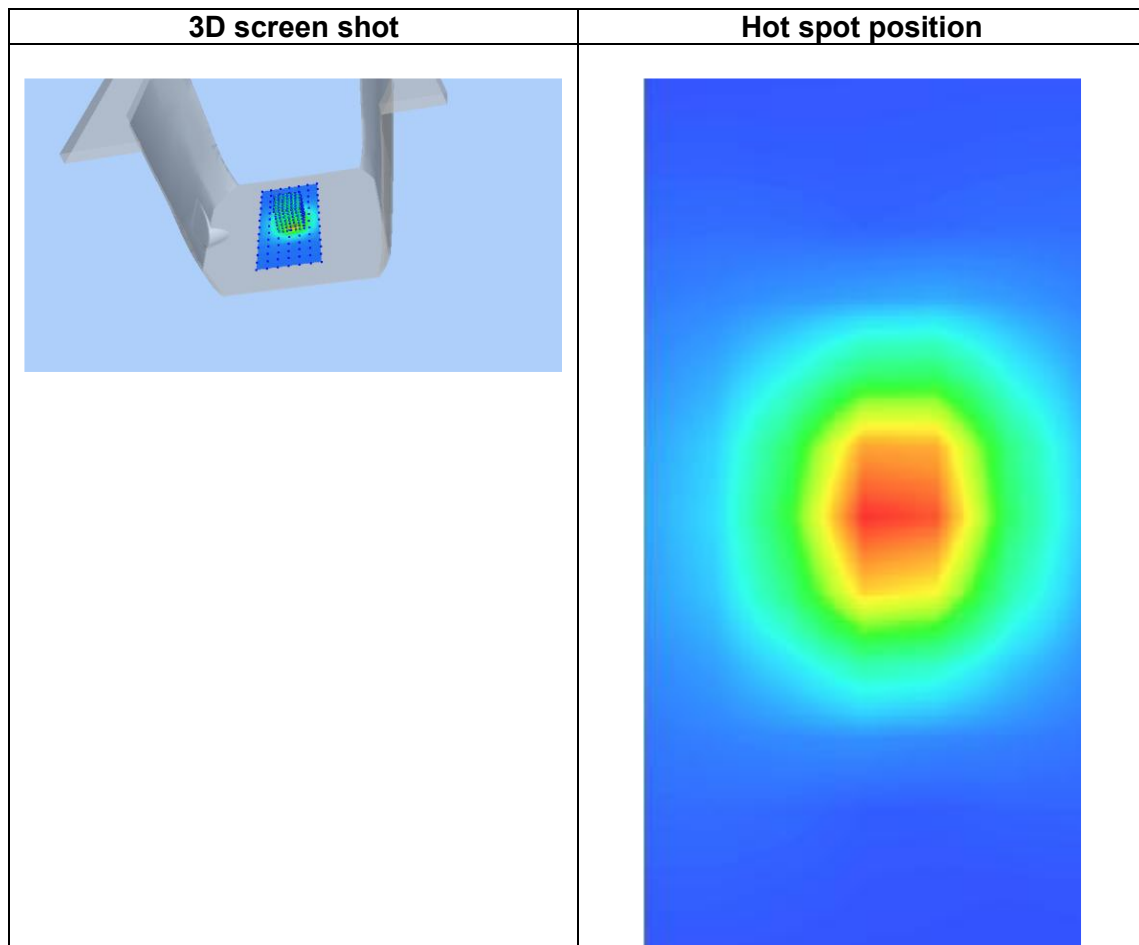
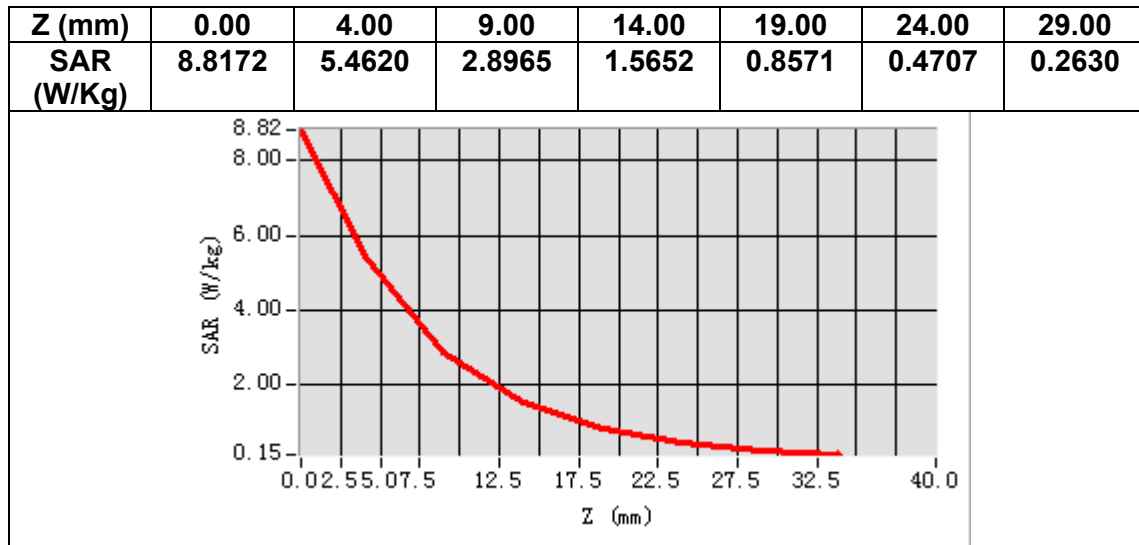
Frequency (MHz)	3500.000000
Relative permittivity (real part)	38.213495
Relative permittivity (imaginary part)	14.402188
Conductivity (S/m)	2.800425
Variation (%)	-1.130000



Maximum location: X=-1.00, Y=2.00

SAR Peak: 9.07 W/kg

SAR 10g (W/Kg)	2.405122
SAR 1g (W/Kg)	6.533389



MEASUREMENT 8

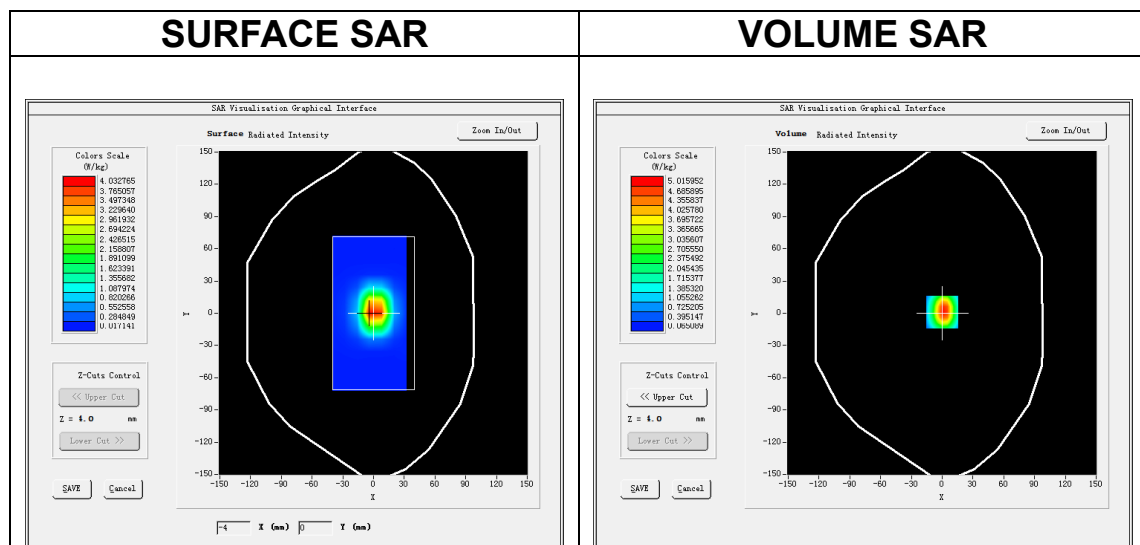
Date of measurement: 27/5/2025

A. Experimental conditions.

Area Scan	<u>dx=10mm dy=10mm, h= 2.00 mm</u>
ZoomScan	<u>7x7x12,dx=4mm dy=4mm dz=2mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Dipole</u>
Band	<u>CW5200</u>
Channels	<u>Middle</u>
Signal	<u>CW (Crest factor: 1.0)</u>
ConvF	<u>2.30</u>

B. SAR Measurement Results

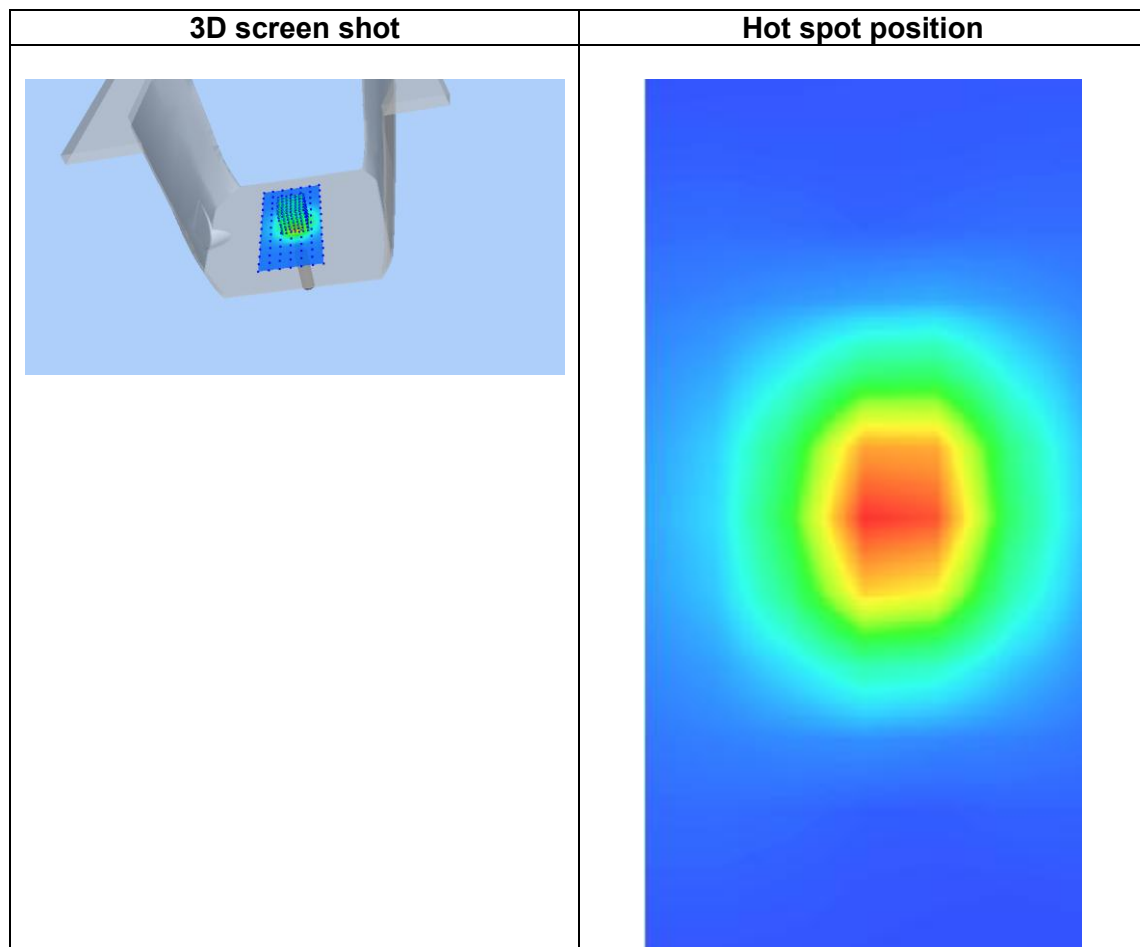
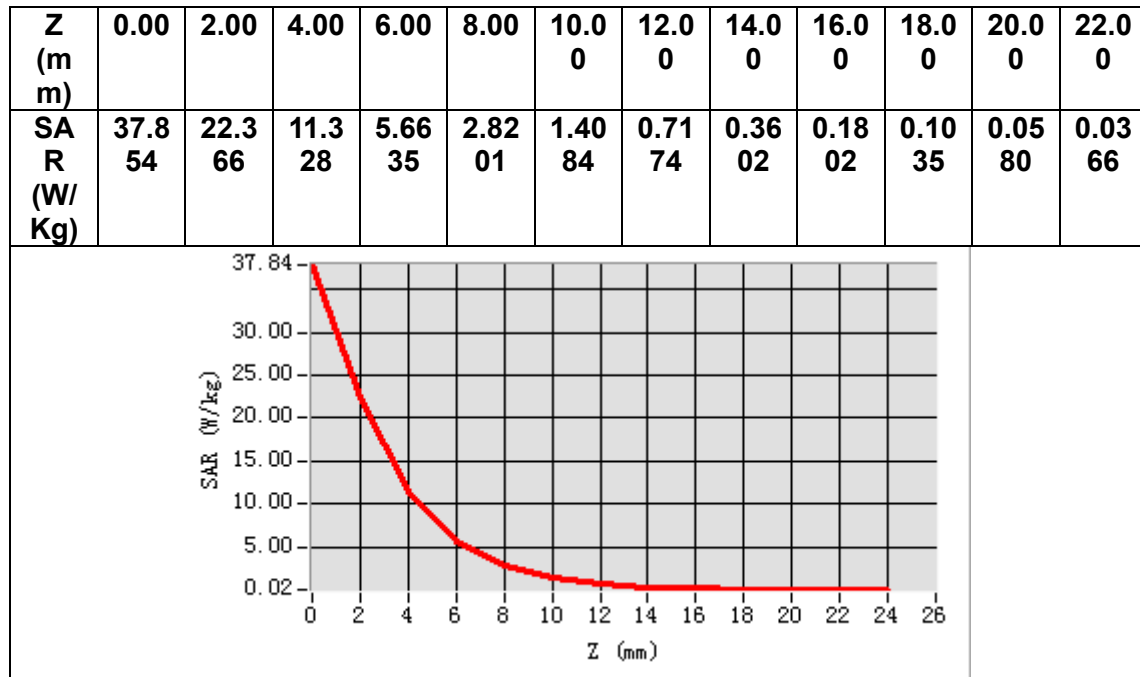
Frequency (MHz)	5200.000000
Relative permittivity (real part)	37.400000
Relative permittivity (imaginary part)	16.129999
Conductivity (S/m)	4.510778
Variation (%)	-4.570000



Maximum location: X=0.00, Y=1.00

SAR Peak: 15.14 W/kg

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



MEASUREMENT 9

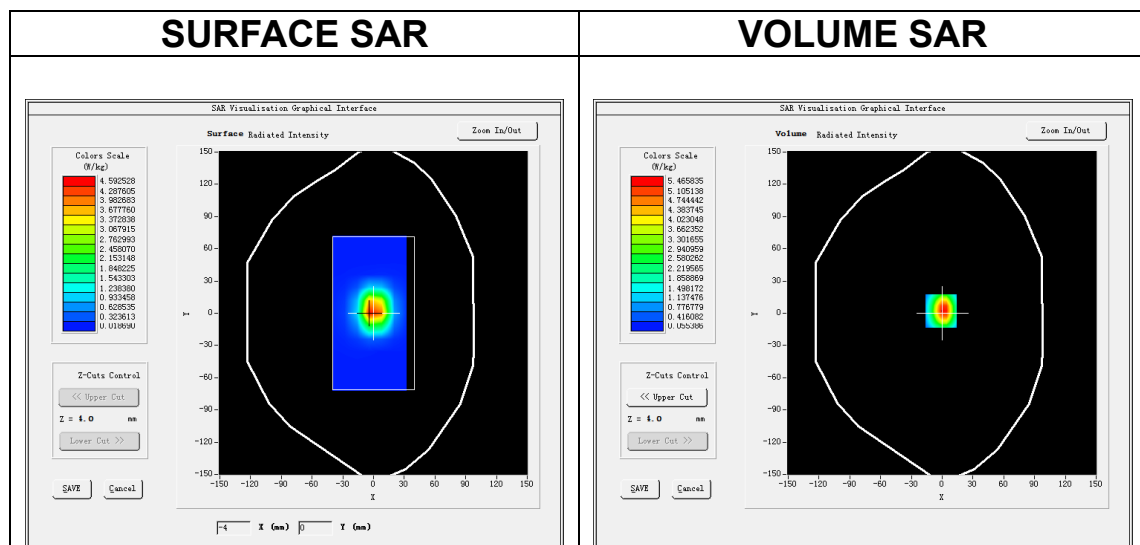
Date of measurement: 28/5/2025

A. Experimental conditions.

Area Scan	<u>dx=10mm dy=10mm, h= 2.00 mm</u>
ZoomScan	<u>7x7x12,dx=4mm dy=4mm dz=2mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Dipole</u>
Band	<u>CW5800</u>
Channels	<u>Middle</u>
Signal	<u>CW (Crest factor: 1.0)</u>
ConvF	<u>2.27</u>

B. SAR Measurement Results

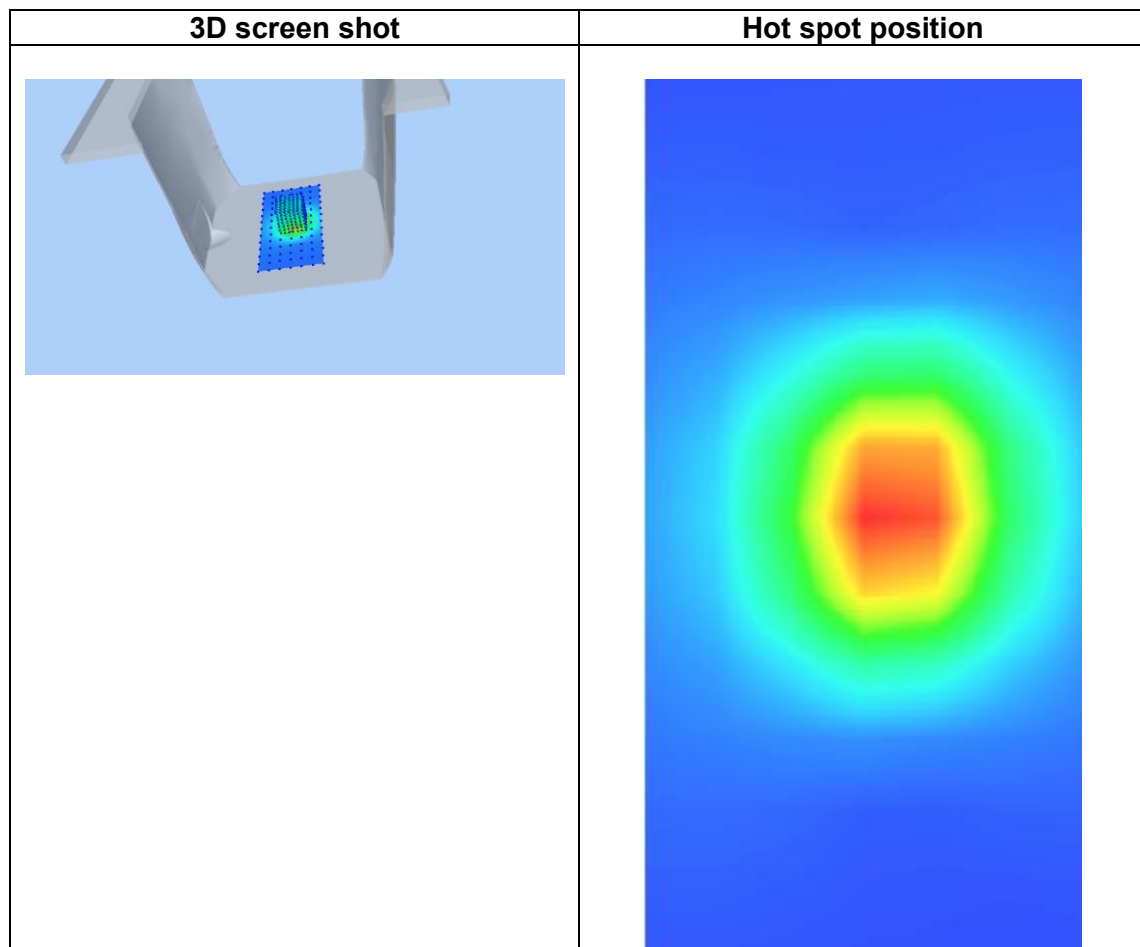
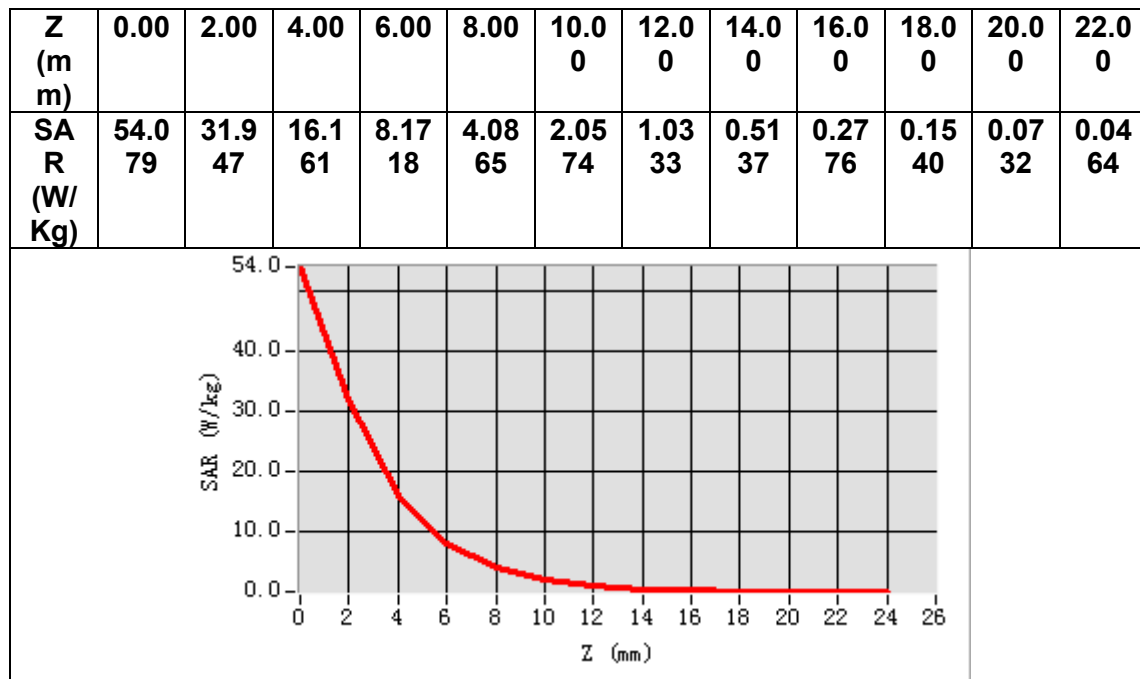
Frequency (MHz)	5800.000000
Relative permittivity (real part)	35.299999
Relative permittivity (imaginary part)	16.360001
Conductivity (S/m)	5.271556
Variation (%)	-2.480000



Maximum location: X=-1.00, Y=2.00

SAR Peak: 17.07 W/kg

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



Appendix C. SAR Test Plots

Table of contents
MEASUREMENT 1 WCDMA Band 2 Body
MEASUREMENT 2 WCDMA Band 5 Body
MEASUREMENT 3 WALN 5.2G Body ANT1
MEASUREMENT 4 WALN 5.8G Body ANT1
MEASUREMENT 5 WALN 2.4G Body ANT1
MEASUREMENT 6 LTE Band 2 Body
MEASUREMENT 7 LTE Band 4 Body
MEASUREMENT 8 LTE Band 5 Body
MEASUREMENT 9 LTE Band 7 Body
MEASUREMENT 10 LTE Band 12 Body
MEASUREMENT 11 LTE Band 17 Body
MEASUREMENT 12 LTE Band 41 Body
MEASUREMENT 13 NR n77 Body
MEASUREMENT 14 WALN 5.2G Body ANT2
MEASUREMENT 15 WALN 5.8G Body ANT2
MEASUREMENT 16 WALN 2.4G Body ANT2

MEASUREMENT 1

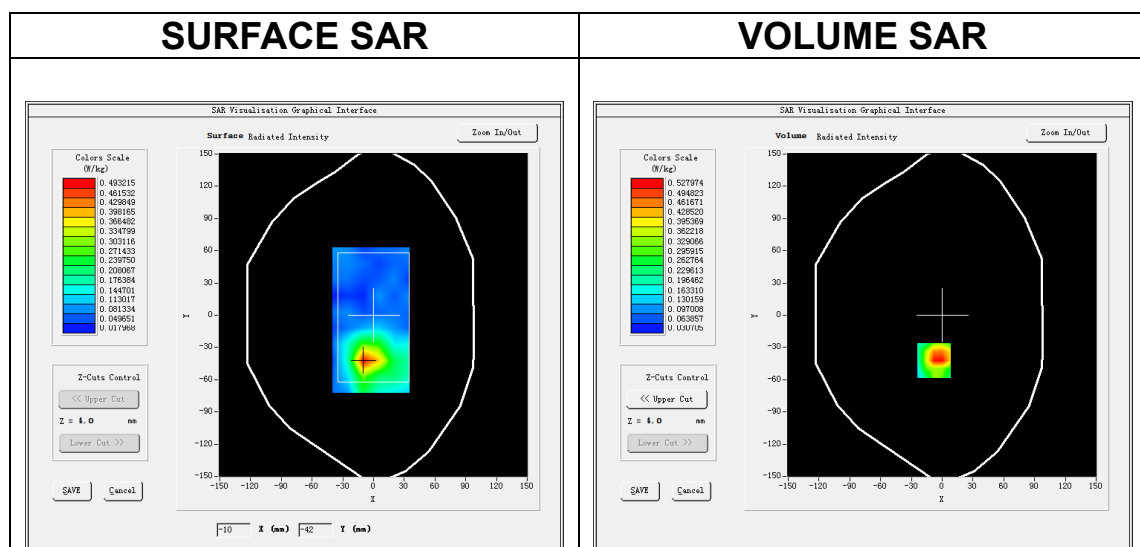
Date of measurement: 28/4/2025

A. Experimental conditions.

Area Scan	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Body</u>
Band	<u>Band2 WCDMA1900</u>
Channels	<u>Middle</u>
Signal	<u>WCDMA (Crest factor: 1.0)</u>
ConvF	<u>2.05</u>

B. SAR Measurement Results

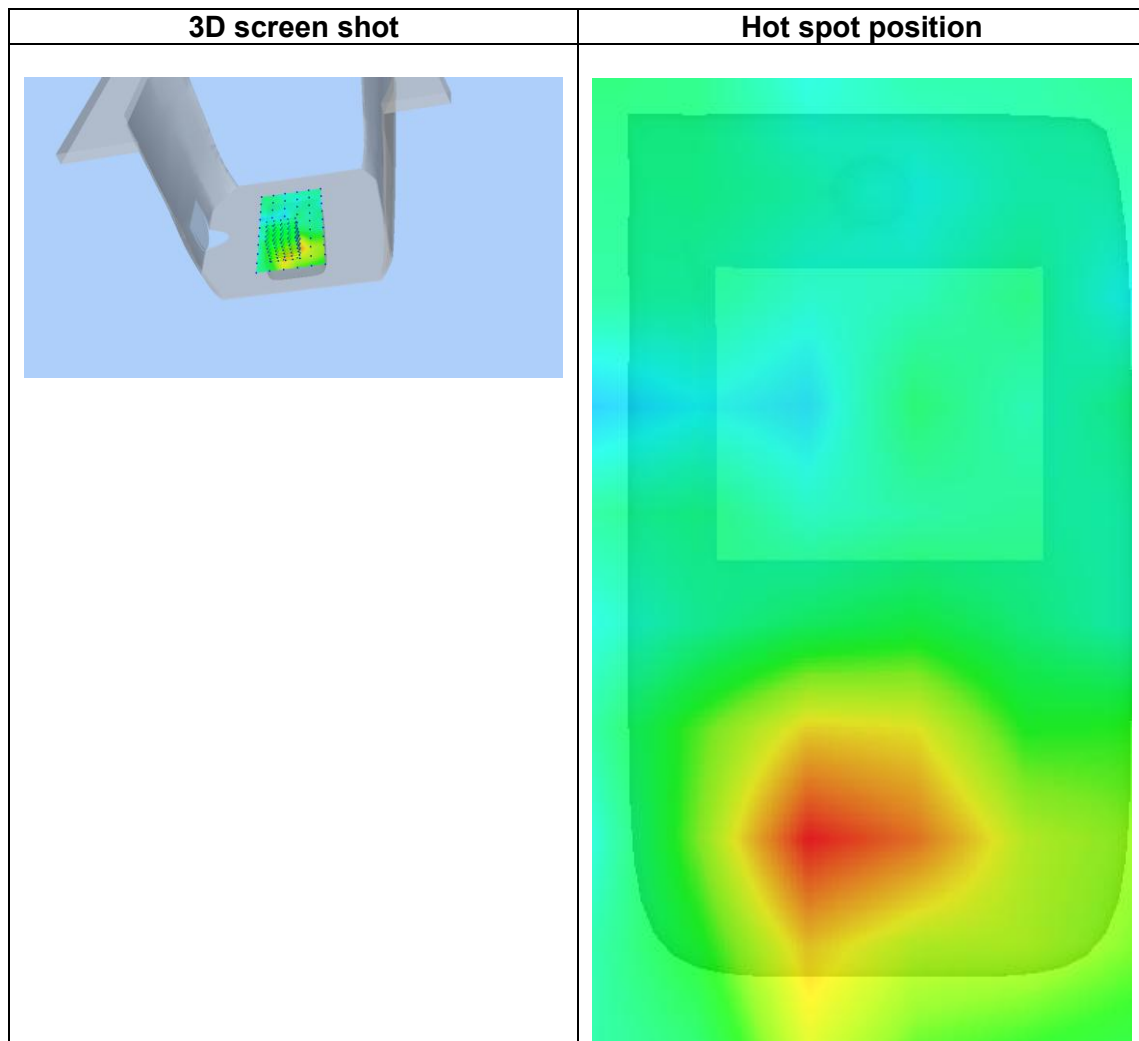
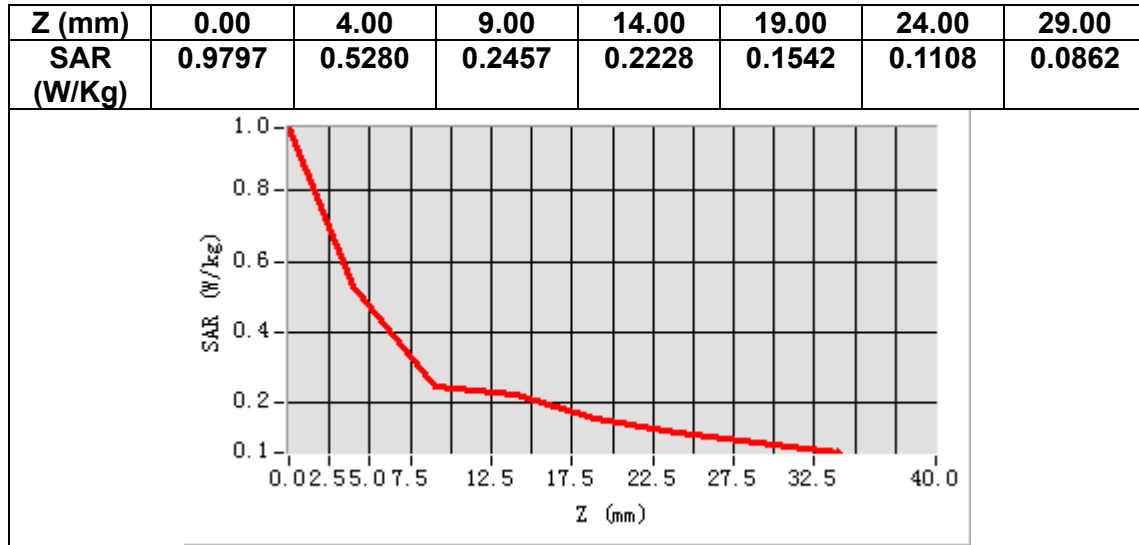
Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.000000
Relative permittivity (imaginary part)	13.408000
Conductivity (S/m)	1.400391
Variation (%)	-0.620001



Maximum location: X=-8.00, Y=-42.00

SAR Peak: 0.93 W/kg

SAR 10g (W/Kg)	0.301361
SAR 1g (W/Kg)	0.534871



MEASUREMENT 2

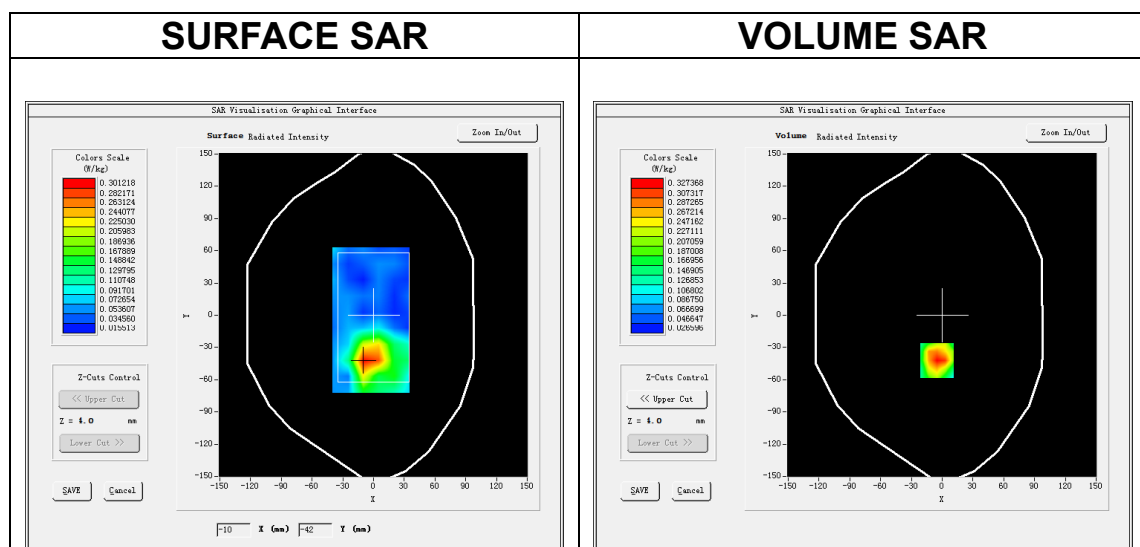
Date of measurement: 24/4/2025

A. Experimental conditions.

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

B. SAR Measurement Results

Frequency (MHz)	836.400024
Relative permittivity (real part)	41.500000
Relative permittivity (imaginary part)	19.400000
Conductivity (S/m)	0.901453
Variation (%)	-0.720001



Maximum location: X=-5.00, Y=-42.00

SAR Peak: 0.47 W/kg

SAR 10g (W/Kg)	0.181888
SAR 1g (W/Kg)	0.297676