

FCC SAR EVALUATION REPORT

**In accordance with the requirements of
FCC 47 CFR Part 2(2.1093), ANSI/IEEE C95.1-1992 and
IEEE Std 1528-2013**

Product Name : Tablet PC

Trademark : HENA, Azeyou

Model Name : AT1201

Family Model : AT1017U, M17QF27A, M17T12,
M17T11, M17QF5A , F27A, F27, F5A,
F5, F8, T12, T11, T10, T13, T15, T16,
T18, K10

FCC ID : 2A27O-AT1201

Report No. : S25050703303001

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TEST RESULT CERTIFICATION

Applicant's name..... Dongguan Lianzhou Electronic Technology Co., Ltd.

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Manufacturer's Name Dongguan Lianzhou Electronic Technology Co., Ltd.

Address..... Building 1, No. 10, Feng Gang Technology Road, Feng Gang Town, DongGuan Cit y, GuangDong Province.

Product description

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FCC 47 CFR Part 2(2.1093);

ANSI/IEEE C95.1-1992

Standards IEEE Std 1528-2013;

Published RF exposure KDB procedures

This device described above has been tested by Shenzhen NTEK. In accordance with the measurement methods and procedures specified in IEEE Std 1528-2013 and KDB 865664 D01. Testing has shown that this device is capable of compliance with localized specific absorption rate (SAR) specified in FCC 47 CFR Part 2(2.1093) and ANSI/IEEE C95.1-1992. The test results in this report apply only to the tested sample of the stated device/equipment. Other similar device/equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

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Test Sample Number..... S250507033001

Date of Test

Date (s) of performance of tests May. 15, 2025 ~ May. 26, 2025

Date of Issue July.15, 2025

Test Result **Pass**

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※ ※ Revision History ※ ※

REV.	DESCRIPTION	ISSUED DATE	REMARK
Rev.1.0	Initial Test Report Release	July.15, 2025	Owen Xiao

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1. General Information

1.1. RF exposure limits

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

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

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

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

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

Occupational/Controlled Environments:

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

General Population/Uncontrolled Environments:

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

NOTE
TRUNK LIMIT
1.6 W/kg
APPLIED TO THIS EUT

1.2. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for AT1201 are as follows.

RF Exposure Conditions		Equipment Class -Highest Reported SAR (W/kg)				Max. Reported SAR (W/kg)
		PCB	DTS	NII	DSS	
1-g Body-Worn (Separation distance of 0mm)		0.673	0.363	0.603	0.265	0.673
1-g Hotspot (Separation distance of 0mm)		0.694	0.363	0.652	0.265	0.694
Max Simultaneous Tx	Body-Worn	1.262	1.011	1.262	0.938	1.262
	Hotspot	1.346	1.011	1.346	0.959	1.346

Note: The Max Simultaneous Tx is calculated based on the same configuration and test position. This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CFR Part 2(2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE Std 1528-2013 & KDB 865664 D01.

1.3. EUT Description

Device Information	
Product Name	Tablet PC
Trade Name	HENA, Azeyou
Model Name	AT1201
Family Model	AT1017U, M17QF27A, M17T12, M17T11, M17QF5A , F27A, F27, F5A, F5, F8, T12, T11, T10, T13, T15, T16, T18, K10
Model Difference	All models are the same circuit and RF module, except for the color.
FCC ID	2A27O-AT1201
Device Phase	Identical Prototype
Exposure Category	General population / Uncontrolled environment
Antenna	FPC Antenna
Battery	DC 3.8V,8000mAh , 30.4Wh
Hardware version	T30-T616-V2.0
Software version	Android 15
Device Operating Configurations	
Supporting Mode(s)	GSM 850/1900, WCDMA Band 2/4/5, LTE Band 2/4/5/7/12/13/25/26a/26b/41/66, WLAN 2.4G/5G, Bluetooth

Test Modulation	GSM(GMSK/8PSK), WCDMA(QPSK), LTE(QPSK/16QAM), WLAN(DSSS/OFDM), Bluetooth(GFSK, $\pi/4$ -DQPSK, 8DPSK)		
Device Class	B		
Operating Frequency Range(s)	Band	Tx (MHz)	Rx (MHz)
	GSM 850	824-849	869-894
	GSM 1900	1850-1910	1930-1990
	WCDMA Band 2	1850-1910	1930-1990
	WCDMA Band 4	1710-1755	2110-2155
	WCDMA Band 5	824-849	869-894
	LTE Band 2	1850-1910	1930-1990
	LTE Band 4	1710-1755	2110-2155
	LTE Band 5	824-849	869-894
	LTE Band 7	2500-2570	2620-2690
	LTE Band 12	699-716	729-746
	LTE Band 13	777-787	746-756
	LTE Band 25	1850-1915	1930-1995
	LTE Band 26a	814-824	859-869
	LTE Band 26b	824-849	869-894
	LTE Band 41	2535-2655	
	LTE Band 66	1710-1780	2110-2200
	WLAN 2.4G	2412-2462	
	WLAN 5.2G	5180-5240	
	WLAN 5.3G	5260-5320	
	WLAN 5.6G	5500-5700	
	WLAN 5.8G	5745-5825	
	Bluetooth	2402-2480	
GPRS Multislot Class(12)	Max Number of Timeslots in Uplink		4
	Max Number of Timeslots in Downlink		4
	Max Total Timeslot		5
EGPRS Multislot Class(12)	Max Number of Timeslots in Uplink		4
	Max Number of Timeslots in Downlink		4
	Max Total Timeslot		5
Power Class	4, tested with power level 5(GSM 850)		
	1, tested with power level 0(GSM 1900)		
	3, tested with power control "all 1"(WCDMA Band 2)		
	3, tested with power control "all 1"(WCDMA Band 4)		
	3, tested with power control "all 1"(WCDMA Band 5)		
	3, tested with power control all Max.(LTE Band 2)		
	3, tested with power control all Max.(LTE Band 4)		
	3, tested with power control all Max.(LTE Band 5)		

	3, tested with power control all Max.(LTE Band 7)
	3, tested with power control all Max.(LTE Band 12)
	3, tested with power control all Max.(LTE Band 13)
	3, tested with power control all Max.(LTE Band 25)
	3, tested with power control all Max.(LTE Band 26a)
	3, tested with power control all Max.(LTE Band 26b)
	3, tested with power control all Max.(LTE Band 41)
	3, tested with power control all Max.(LTE Band 66)

1.4. Test specification(s)

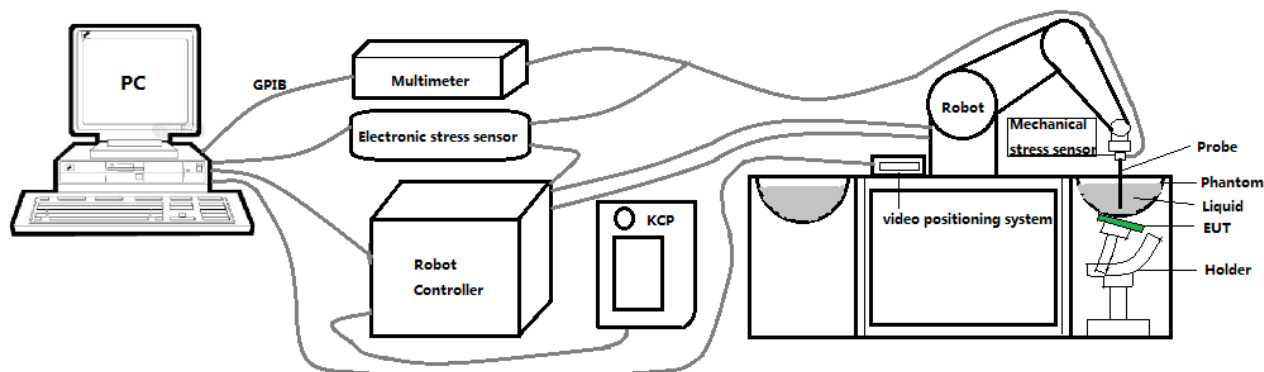
FCC 47 CFR Part 2(2.1093)
ANSI/IEEE C95.1-1992
IEEE Std 1528-2013
KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04;
KDB 865664 D02 RF Exposure Reporting v01r02;
KDB 447498 D01 General RF Exposure Guidance v06;
KDB 248227 D01 802.11 Wi-Fi SAR v02r02;
KDB 941225 D01 3G SAR Procedures v02r01;
KDB 941225 D05 SAR for LTE Devices v01r02;
KDB 616217 D04 SAR for laptop and tablets v01r02

1.5. Ambient Condition

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

2. SAR Measurement System

2.1. SATIMO SAR Measurement Set-up Diagram



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

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

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

2.2. Robot

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



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

2.3. E-Field Probe

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

For the measurements the Specific Dosimetric E-Field Probe 0725-EPGO-448 with following specifications is used



- Dynamic range: 0.01-100 W/kg
- Tip Diameter : 2.5 mm
- Distance between probe tip and sensor center: 1 mm
- Distance between sensor center and the inner phantom surface: 2 mm (repeatability better than ± 1 mm).
- Probe linearity: ± 0.08 dB
- Axial isotropy: ± 0.01 dB
- Hemispherical Isotropy: ± 0.01 dB
- Calibration range: 650MHz to 5900MHz for head & body simulating liquid.
- Lower detection limit: 8mW/kg

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

2.3.1. E-Field Probe Calibration

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

2.4. SAM phantoms

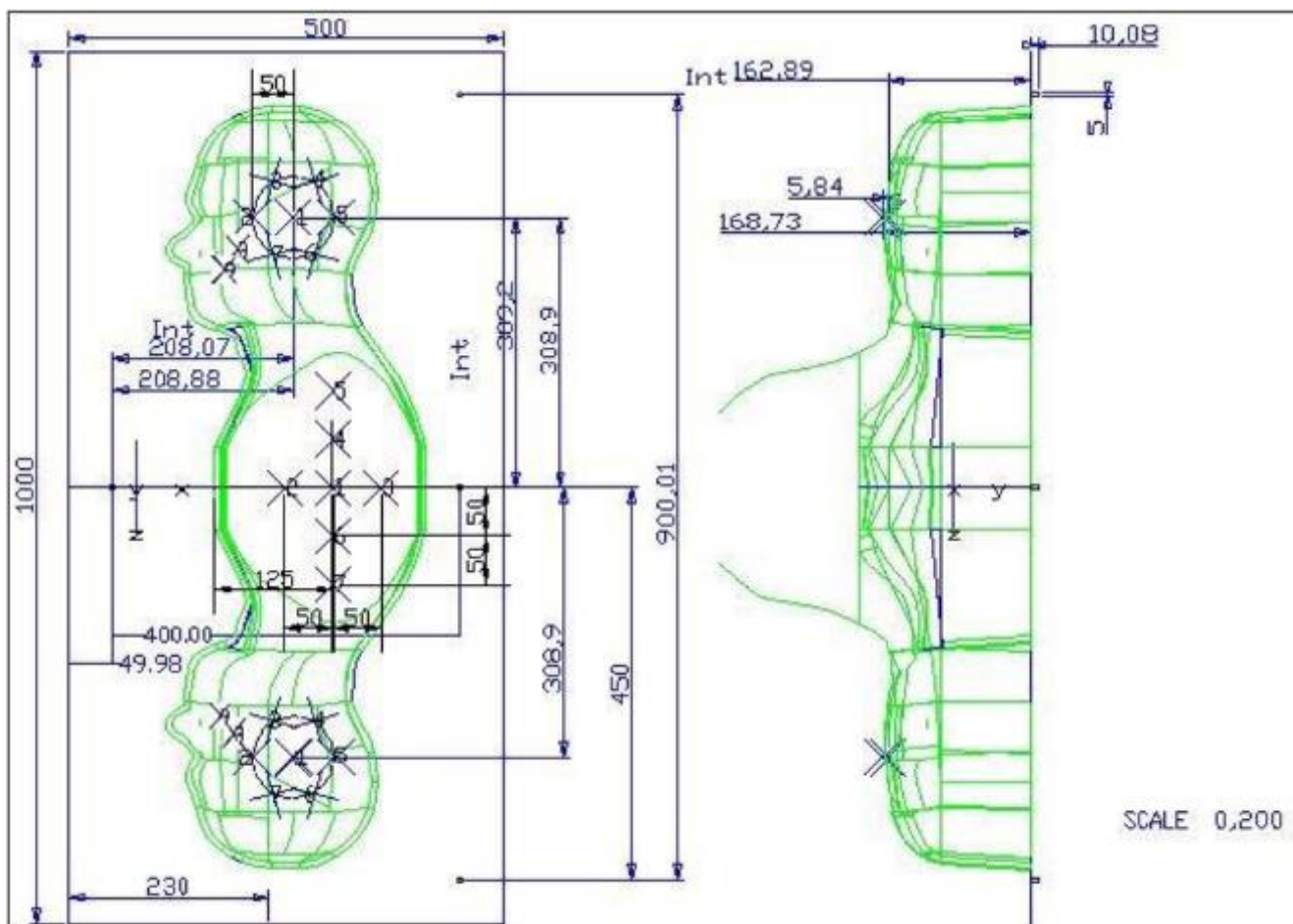
Photo of SAM phantom SN 16/15 SAM119



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

2.4.1. Technical Data

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

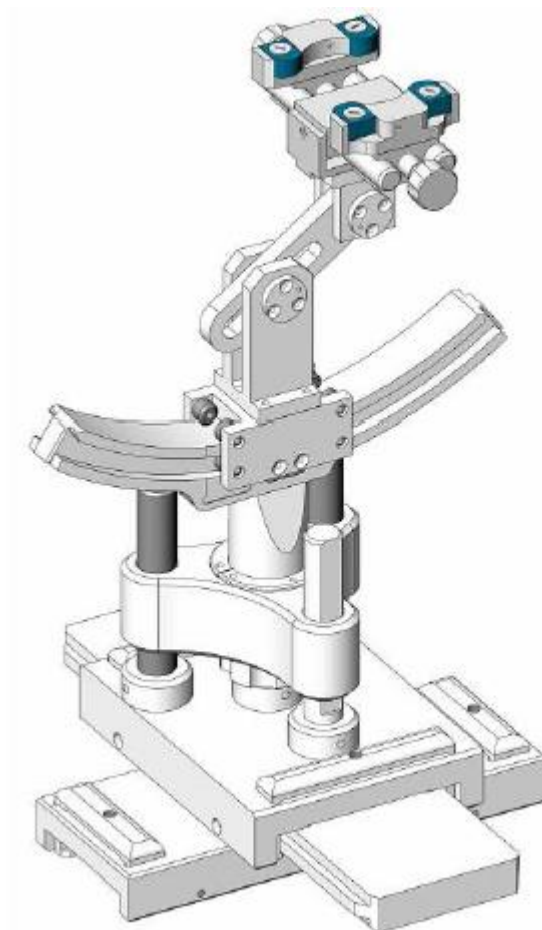


Serial Number	Left Head(mm)		Right Head(mm)		Flat Part(mm)	
SN 16/15 SAM119	2	2.02	2	2.08	1	2.09
	3	2.05	3	2.06	2	2.06
	4	2.07	4	2.07	3	2.08
	5	2.08	5	2.08	4	2.10
	6	2.05	6	2.07	5	2.10
	7	2.05	7	2.05	6	2.07
	8	2.07	8	2.06	7	2.07
	9	2.08	9	2.06	-	-

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

2.5. Device Holder

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



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

2.6. Test Equipment List

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

Devices used during the test described are marked ☒

	Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
					Last Cal.	Due Date
☒	MVG	E FIELD PROBE	SSE2	0725-EPGO-448	Apr. 15, 2025	Apr. 14, 2026
☒	MVG	750 MHz Dipole	SID750	SN 03/15 DIP 0G750-355	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	835 MHz Dipole	SID835	SN 03/15 DIP 0G835-347	Feb. 21, 2024	Feb. 20, 2027
☐	MVG	900 MHz Dipole	SID900	SN 03/15 DIP 0G900-348	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	1800 MHz Dipole	SID1800	SN 03/15 DIP 1G800-349	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	1900 MHz Dipole	SID1900	SN 03/15 DIP 1G900-350	Feb. 21, 2024	Feb. 20, 2027
☐	MVG	2000 MHz Dipole	SID2000	SN 03/15 DIP 2G000-351	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	2450 MHz Dipole	SID2450	SN 03/15 DIP 2G450-352	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	2600 MHz Dipole	SID2600	SN 03/15 DIP 2G600-356	Feb. 21, 2024	Feb. 20, 2027
☐	MVG	3500 MHz Dipole	SID3500	SN 09/12 DIP 3G500-360	Oct. 15, 2022	Oct. 14, 2025
☐	MVG	3700 MHz Dipole	SID3700	SN 09/12 DIP 3G/700-361	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	NCR	NCR
☒	MVG	Power Amplifier	N/A	AMPLISAR_28/14_003	NCR	NCR
☒	KEITHLEY	Millivoltmeter	2000	4072790	Nov. 29, 2024	Nov. 28, 2025
☒	R&S	Universal radio communication tester	CMU200	105747	Apr. 17, 2025	Apr. 16, 2026
☒	R&S	Wideband	CMW500	103917	May. 12,	May. 11,

		radio communication tester			2025	2026
☐	Anritsu	4G LTE comprehensive tester	MT8821C	6262192315	July.17 2024	July.16 2025
☐	Anritsu	5G NR comprehensive tester	MT8000A	6262186364	July.17 2024	July.16 2025
☒	HP	Network Analyzer	E5071C	LPS-461	Oct. 15, 2024	Oct. 14, 2025
☒	Agilent	Calibration Kit	85033E	N/A	May. 31, 2024	May. 30, 2027
☒	Agilent	MXG Vector Signal Generator	N5182A	MY47070317	Apr. 17, 2025	Apr. 16, 2026
☒	Agilent	Power sensor	E9301A	LES-413-C	May. 6, 2025	May. 5, 2026
☒	Agilent	Power sensor	E9301A	US39212148	Apr. 17, 2025	Apr. 16, 2026
☒	MCLI/USA	Directional Coupler	CB11-20	0D2L51502	Apr. 26, 2024	Apr. 25, 2027
☒	N/A	Thermometer	N/A	LES-085	Mar. 27, 2023	Mar. 26, 2026
☒	MVG	SAM Phantom	SSM2	SN 16/15 SAM119	NCR	NCR
☒	MVG	Device Holder	SMPPD	SN 16/15 MSH100	NCR	NCR

Measurement Software

Manufacturer	Software Name	Software Version
SATIMO	OpenSAR	V5.3.15.11

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 WLAN/Bluetooth power measurement, use engineering software to configure EUT WLAN/Bluetooth 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 WLAN/Bluetooth output power.

<SAR measurement>

- (a) Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT WLAN/Bluetooth 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 <i>reported</i> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

3.3. Description of interpolation/extrapolation scheme

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

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

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

3.4. Volumetric Scan

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

3.5. Power Drift

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

4. System Verification Procedure

4.1. Tissue Verification

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

Ingredients (% of weight)	Head Tissue								
Frequency Band (MHz)	750	835	900	1800	1900	2000	2450	2600	5000
Water	34.40	34.40	34.40	55.36	55.36	71.88	71.88	71.88	65.53
NaCl	0.79	0.79	0.79	0.35	0.35	0.16	0.16	0.16	0.00
1,2-Propanediol	64.81	64.81	64.81	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	17.24
DGBE	0.00	0.00	0.00	13.84	13.84	7.99	7.99	7.99	0.00

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

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

4.1.1. Tissue Dielectric Parameter Check Results

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

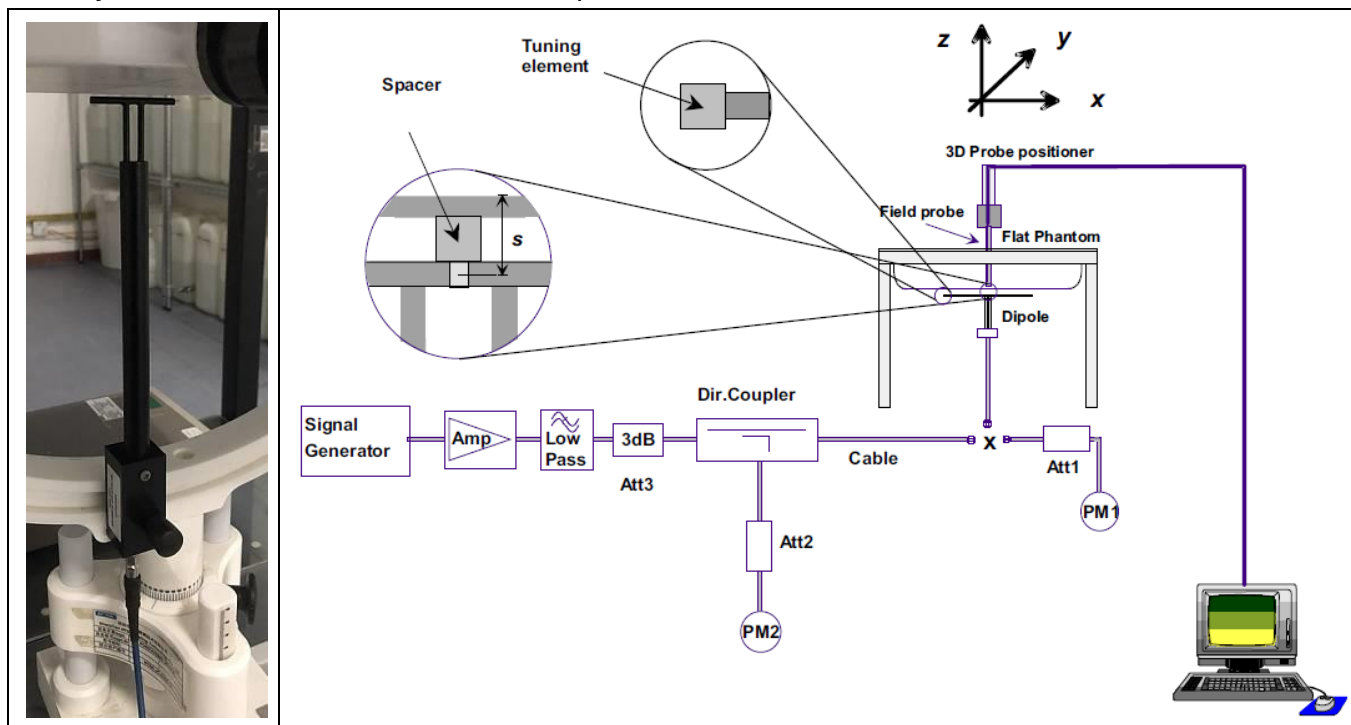
Head 750	750	41.90	0.89	40.79	0.89	-2.64	-0.56	21.0 °C	May. 21, 2025
Head 835	835	41.50	0.90	42.10	0.92	1.44	2.00	21.4 °C	May. 25, 2025
Head 1800	1800	40.00	1.40	38.83	1.38	-2.91	-1.50	21.3 °C	May. 22, 2025
Head 1900	1900	40.00	1.40	38.28	1.44	-4.30	2.57	21.3 °C	May. 26, 2025
Head 2450	2450	39.20	1.80	38.13	1.80	-2.72	-0.17	21.5 °C	May. 16, 2025
Head 2600	2600	39.01	1.96	39.18	1.92	0.45	-1.99	21.9 °C	May. 20, 2025
Head 5200	5200	36.00	4.66	37.26	4.54	3.49	-2.58	21.3 °C	May. 18, 2025
Head 5400	5400	35.80	4.86	35.49	5.01	-0.86	3.13	21.8 °C	May. 23, 2025
Head 5600	5600	35.50	5.07	35.92	5.08	1.19	0.12	21.3 °C	May. 24, 2025
Head 5800	5800	35.30	5.27	35.93	5.11	1.77	-3.13	21.5 °C	May. 15, 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. To adjust this power a power meter is used. The power sensor is connected to the cable before the system verification to measure the power at this point and do adjustments at the signal generator. At the outputs of the directional coupler both return loss as well as forward power are controlled during the system verification to make sure that emitted power at the dipole is kept constant. This can also be checked by the power drift measurement after the test (result on plot).

The system verification is shown as below picture:



4.2.1. System Verification Results

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

System Verification	Target SAR (1W)		Measured SAR			Measured SAR		Delta (%)		Liquid Temp.	Test Date
						(Normalized to 1W)					
	1-g (W/Kg)	10-g (W/Kg)	Input Power (mW)	1-g (W/Kg)	10-g (W/Kg)	1-g (W/Kg)	10-g (W/Kg)	1-g (%)	10-g (%)		
750MHz	8.60	5.78	100.00	0.90	0.56	9.01	5.60	4.77	-3.11	21.0 °C	May. 21, 2025
835MHz	9.40	6.28	100.00	0.99	0.60	9.94	6.02	5.74	-4.14	21.4 °C	May. 25, 2025
1800MHz	37.06	20.01	100.00	3.82	1.93	38.19	19.28	3.05	-3.65	21.3 °C	May. 22, 2025
1900MHz	39.69	20.92	100.00	4.20	2.07	42.04	20.69	5.92	-1.10	21.3 °C	May. 26, 2025
2450MHz	50.05	23.80	100.00	5.11	2.20	51.11	21.99	2.12	-7.61	21.5 °C	May. 16, 2025
2600MHz	54.16	24.85	100.00	5.78	2.44	57.83	24.39	6.78	-1.85	21.9 °C	May. 20, 2025
5200MHz	162.59	56.21	10.00	1.54	0.52	154.00	52.20	-5.28	-7.13	21.3 °C	May. 18, 2025
5400MHz	159.81	55.00	10.00	1.68	0.57	168.00	56.50	5.12	2.73	21.8 °C	May. 23, 2025
5600MHz	179.15	61.01	10.00	1.69	0.57	168.50	57.00	-5.94	-6.57	21.3 °C	May. 24, 2025
5800MHz	182.20	61.32	10.00	1.81	0.61	181.20	60.50	-0.55	-1.34	21.5 °C	May. 15, 2025

5. SAR Measurement variability and uncertainty

5.1. SAR measurement variability

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

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

5.2. SAR measurement uncertainty

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

6. RF Exposure Positions

6.1. Tablet host platform exposure conditions

Refer to KDB616217 D04, when the modular approach is used, transmitters and modules must be initially tested for standalone operations in generic host conditions according to the following minimum test separation distance and antenna installation requirements for incorporation in the tablet platform. The separation distance required for incorporation in qualified hosts is described in KDB 447498; item 5) of section 4.1 and item 1) of section 5.2.2 etc.

- ≤ 5 mm between the antenna and user for both back surface and edge exposure conditions
- the antennas used by the host must have been tested for equipment approval or qualify for SAR test exclusion
- the antenna polarization, physical orientation, rotation and installation configurations used by the host must have been tested for compliance or qualify for test exclusion
- when the *SAR Test Exclusion Threshold* in KDB 447498 applies, a *test separation distance* of 5 mm is required to determine test exclusion for the tablet platform

The antennas embedded in tablets are typically ≤ 5 mm from the outer housing. The required antenna to user test separation distance is a “not to exceed test” distance required to apply the modular approach. Instead of the typical zero gap tablet edge test requirement between the edge of a tablet and the user, when an antenna has been tested at ≤ 5 mm according to the modular approach it can be incorporated into tablets with at least twice the tested distance from the outer housing of the tablet edge; otherwise, the tablet edge zero gap test requirement applies. When the dedicated host approach is applied, the back surface and edges of the tablet should be tested for SAR compliance with the tablet touching the phantom.

7. RF Output Power

7.1. GSM Conducted Power

Band GSM850	Burst-Averaged output Power (dBm)				Frame-Averaged output Power (dBm)			
Tx Channel	Tune -	128	189	251	Tune -	128	189	251
Frequency (MHz)	up (dBm)	824.2	836.4	848.8	up (dBm)	824.2	836.4	848.8
GSM (GMSK)	32.50	32.40	32.48	32.16	23.47	23.37	23.45	23.13
GPRS(GMSK,1 Tx slot)	32.50	32.30	32.36	32.03	23.47	23.27	23.33	23.00
GPRS(GMSK,2 Tx slot)	30.50	30.16	30.26	30.10	24.48	24.14	24.24	24.08
GPRS(GMSK,3 Tx slot)	28.50	28.33	28.43	28.29	24.24	24.07	24.17	24.03
GPRS(GMSK,4 Tx slot)	27.00	26.38	26.50	26.36	23.99	23.37	23.49	23.35
EGPRS(8PSK,1 Tx slot)	25.50	24.94	25.33	25.34	16.47	15.91	16.30	16.31
EGPRS(8PSK,2 Tx slot)	24.00	23.37	23.86	23.88	17.98	17.35	17.84	17.86
EGPRS(8PSK,3 Tx slot)	22.00	21.50	21.55	21.83	17.74	17.24	17.29	17.57
EGPRS(8PSK,4 Tx slot)	19.50	19.05	19.24	19.48	16.49	16.04	16.23	16.47
Band GSM1900	Burst-Averaged output Power (dBm)				Frame-Averaged output Power (dBm)			
Tx Channel	Tune -	512	661	810	Tune -	512	661	810
Frequency (MHz)	up (dBm)	1850.2	1880	1909.8	up (dBm)	1850.2	1880	1909.8
GSM (GMSK)	29.00	28.81	28.85	28.68	19.97	19.78	19.82	19.65
GPRS(GMSK,1 Tx slot)	29.00	28.79	28.79	28.64	19.97	19.76	19.76	19.61
GPRS(GMSK,2 Tx slot)	27.00	26.73	26.64	26.40	20.98	20.71	20.62	20.38
GPRS(GMSK,3 Tx slot)	25.50	25.19	25.13	24.90	21.24	20.93	20.87	20.64
GPRS(GMSK,4 Tx slot)	23.50	23.04	23.08	22.85	20.49	20.03	20.07	19.84
EGPRS(8PSK,1 Tx slot)	26.00	25.29	25.76	25.16	16.97	16.26	16.73	16.13
EGPRS(8PSK,2 Tx slot)	24.00	23.74	23.85	23.67	17.98	17.72	17.83	17.65
EGPRS(8PSK,3 Tx slot)	22.00	20.95	21.72	21.53	17.74	16.69	17.46	17.27
EGPRS(8PSK,4 Tx slot)	20.50	19.95	20.40	19.76	17.49	16.94	17.39	16.75

Note: The frame-averaged power is linearly scaled the maximum burst averaged power over 8 time slots. The calculated method are shown as below:

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

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

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

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

7.2. WCDMA Conducted Power

WCDMA Band 2		Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	9262	9400	9538	
Frequency (MHz)		1852.4	1880	1907.6	
RMC12.2K	22.00	21.77	21.88	21.87	
HSDPA Sub 1	21.50	21.19	21.17	20.93	
HSDPA Sub 2	21.00	20.76	20.68	20.63	
HSDPA Sub 3	21.00	20.42	20.50	20.21	
HSDPA Sub 4	20.50	20.24	20.23	20.23	
HSUPA Sub 1	21.00	20.97	20.98	20.75	
HSUPA Sub 2	21.50	21.10	21.13	20.88	
HSUPA Sub 3	21.00	20.84	20.63	20.41	
HSUPA Sub 4	21.50	20.84	21.08	20.86	
HSUPA Sub 5	21.00	20.90	20.65	20.67	
WCDMA Band 4		Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	1312	1413	1513	
Frequency (MHz)		1712.4	1732.6	1752.6	
RMC12.2K	27.00	26.39	26.49	26.74	
HSDPA Sub 1	26.00	25.76	25.89	25.43	
HSDPA Sub 2	26.00	25.35	25.57	25.11	
HSDPA Sub 3	25.50	25.03	25.33	24.76	
HSDPA Sub 4	25.50	24.97	25.17	24.70	
HSUPA Sub 1	26.00	25.54	25.65	25.25	
HSUPA Sub 2	26.00	25.58	25.82	25.37	
HSUPA Sub 3	25.50	25.19	25.37	24.97	
HSUPA Sub 4	26.00	25.59	25.70	25.40	
HSUPA Sub 5	26.00	25.19	25.54	25.00	
WCDMA Band 5		Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	4132	4182	4233	
Frequency (MHz)		826.4	836.4	846.6	
RMC12.2K	22.00	21.36	21.58	21.39	
HSDPA Sub 1	21.00	20.76	19.53	20.55	
HSDPA Sub 2	20.50	20.33	19.33	20.35	
HSDPA Sub 3	20.50	20.12	18.80	20.07	
HSDPA Sub 4	20.50	19.81	18.80	20.07	
HSUPA Sub 1	20.50	20.46	19.38	20.48	
HSUPA Sub 2	21.00	20.69	19.55	20.60	

HSUPA Sub 3	20.50	20.32	19.22	20.00
HSUPA Sub 4	21.00	20.66	19.52	20.61
HSUPA Sub 5	21.00	20.62	19.30	20.44

7.3. LTE Conducted Power

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18607/1850.7	18900/1880	19193/1909.3
LTE Band 2	1.4MHz	QPSK	1	0	24.50	23.80	24.33	24.26
			1	2	24.50	23.84	24.32	24.44
			1	5	24.50	23.85	24.19	24.36
			3	0	24.50	23.98	24.11	24.10
			3	1	24.50	23.95	24.06	24.11
			3	2	24.50	23.87	24.10	24.04
		16QAM	6	0	23.50	22.89	23.05	22.95
			1	0	23.50	23.48	22.66	22.99
			1	2	23.50	23.35	22.71	22.97
			1	5	23.50	23.38	22.49	23.08
			3	0	23.50	23.25	22.98	23.26
			3	1	23.50	23.23	23.00	23.21
			3	2	23.50	23.19	22.94	23.27
			6	0	22.00	21.74	21.98	21.98
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	23.96	24.19	24.03
			1	7	24.50	24.17	24.04	24.23
			1	14	24.50	23.88	24.15	24.33
			8	0	23.50	22.95	23.10	23.11
			8	4	23.50	22.97	23.07	23.01
			8	7	23.50	22.86	23.02	23.08
			15	0	23.50	23.00	23.03	23.11
		16QAM	1	0	24.00	23.41	23.06	23.61
			1	7	24.00	23.47	23.08	23.58
			1	14	24.00	23.35	23.06	23.42
			8	0	22.50	22.11	22.19	22.22
			8	4	22.50	22.10	22.13	22.27
			8	7	22.50	22.05	22.20	22.23
			15	0	22.50	21.99	22.16	22.12
Band	Band	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		

	Width		RB Size	RB Offset	(dBm)	18625/1852.5	18900/1880	19175/1907.5
LTE Band 2	5MHz	QPSK	1	0	24.50	24.23	24.23	24.36
			1	12	24.50	24.07	24.27	24.27
			1	24	24.50	24.06	24.29	24.37
			12	0	23.50	22.93	23.10	23.05
			12	6	23.50	22.83	23.05	23.11
			12	11	23.50	22.89	23.08	23.12
			25	0	23.50	22.88	23.10	23.08
		16QAM	1	0	23.50	23.01	23.07	23.08
			1	12	23.50	22.85	22.93	23.03
			1	24	23.50	23.00	23.09	23.11
			12	0	22.50	22.02	22.16	22.21
			12	6	22.50	22.03	22.19	22.11
			12	11	22.50	22.02	22.14	22.17
			25	0	22.50	22.12	22.33	22.34
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	24.03	24.07	24.27
			1	24	24.50	24.09	24.33	24.26
			1	49	24.50	24.21	24.27	24.16
			25	0	23.50	22.86	23.05	23.12
			25	12	23.50	22.96	23.10	23.19
			25	24	23.50	22.95	23.09	23.11
			50	0	23.50	22.88	23.08	23.15
		16QAM	1	0	24.00	23.46	23.62	23.75
			1	24	24.00	23.42	23.57	23.73
			1	49	24.00	23.57	23.54	23.59
			25	0	22.50	21.94	22.08	22.16
			25	12	22.50	21.94	22.14	22.16
			25	24	22.50	21.98	22.14	22.10
			50	0	22.50	21.96	22.12	22.23
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	25.00	24.01	24.30	24.58
			1	37	25.00	24.10	24.29	24.43
			1	74	25.00	24.42	24.28	24.39
			36	0	23.50	22.91	23.09	23.18

		16QAM	36	18	23.50	23.08	22.97	23.18
			36	37	23.50	23.05	23.14	23.13
			75	0	23.50	22.96	23.04	23.24
			1	0	24.00	23.50	23.13	23.44
			1	37	24.00	23.40	22.97	23.28
			1	74	24.00	23.67	23.22	23.18
			36	0	22.50	21.95	22.22	22.40
			36	18	22.50	21.99	22.16	22.26
			36	37	22.50	22.08	22.24	22.28
			75	0	22.50	22.04	22.12	22.16
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	25.00	24.21	24.33	24.53
			1	49	25.00	24.21	24.37	24.59
			1	99	25.00	24.44	24.46	24.37
			50	0	23.50	22.86	23.06	23.26
			50	24	23.50	23.07	23.15	23.23
			50	49	23.50	23.09	23.04	23.17
			100	0	23.50	23.06	23.07	23.17
		16QAM	1	0	23.50	22.94	22.63	23.28
			1	49	23.50	23.03	22.63	23.24
			1	99	23.50	23.10	22.80	23.16
			50	0	22.50	21.94	22.13	22.35
			50	24	22.50	22.01	22.18	22.39
			50	49	22.50	22.17	22.15	22.19
			100	0	22.50	22.14	22.19	22.36

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	22.77	23.61	23.39
			1	2	24.00	22.87	23.55	23.43
			1	5	24.00	22.84	23.57	23.47
			3	0	23.50	23.02	23.32	23.45
			3	1	23.50	23.02	23.41	23.32
			3	2	23.50	22.99	23.34	23.26
			6	0	22.50	22.08	22.28	22.19
		16QAM	1	0	23.50	23.04	22.85	23.02

			1	2	23.50	23.08	22.84	22.95
			1	5	23.50	23.14	22.75	23.06
			3	0	23.00	22.16	22.50	22.46
			3	1	23.00	22.32	22.56	22.62
			3	2	23.00	22.27	22.50	22.56
			6	0	21.50	20.82	21.25	21.19
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		19965/1711.5	20175/1732.5	20385/1753.5
LTE Band 4	3MHz	QPSK	1	0	23.50	23.02	23.32	23.41
			1	7	23.50	22.98	23.38	23.44
			1	14	23.50	23.22	23.43	23.40
			8	0	22.50	22.10	22.27	22.28
			8	4	22.50	22.00	22.36	22.30
			8	7	22.50	21.99	22.36	22.44
			15	0	22.50	21.96	22.33	22.27
		16QAM	1	0	24.00	23.19	23.44	23.42
			1	7	24.00	23.14	23.37	23.50
			1	14	24.00	23.00	23.42	23.42
			8	0	22.00	21.15	21.42	21.49
			8	4	22.00	21.17	21.50	21.44
			8	7	22.00	21.23	21.54	21.50
			15	0	22.00	21.11	21.48	21.53
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	23.29	23.54	23.60
			1	12	24.00	23.29	23.56	23.59
			1	24	24.00	23.41	23.74	23.82
			12	0	22.50	22.03	22.36	22.42
			12	6	22.50	22.00	22.39	22.31
			12	11	22.50	21.98	22.31	22.37
			25	0	22.50	21.95	22.26	22.37
		16QAM	1	0	23.00	22.58	22.82	22.89
			1	12	23.00	22.53	22.90	22.90
			1	24	23.00	22.67	22.74	22.77
			12	0	22.00	21.16	21.44	21.45
			12	6	22.00	21.06	21.40	21.45

			12	11	22.00	21.13	21.45	21.52
			25	0	22.00	21.26	21.64	21.55
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	23.31	23.25	23.24
			1	24	24.00	23.30	23.27	23.46
			1	49	24.00	23.51	23.40	23.38
			25	0	22.50	21.95	22.31	22.37
			25	12	22.50	-34.80	22.25	22.42
			25	24	22.50	-44.46	22.31	22.34
			50	0	22.50	-44.45	22.39	22.47
		16QAM	1	0	24.00	22.07	23.32	23.49
			1	24	24.00	23.16	23.47	23.62
			1	49	24.00	23.29	23.32	23.68
			25	0	21.50	21.04	21.36	21.31
			25	12	21.50	21.04	21.39	21.39
			25	24	21.50	21.11	21.31	21.38
			50	0	22.00	21.14	21.43	21.50
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	23.00	23.55	23.40
			1	37	24.00	23.35	23.60	23.48
			1	74	24.00	23.53	23.61	23.57
			36	0	22.50	22.10	22.37	22.29
			36	18	22.50	22.18	22.42	22.25
			36	37	22.50	22.15	22.25	22.28
			75	0	22.50	22.11	22.30	22.30
		16QAM	1	0	23.50	23.21	22.73	22.82
			1	37	23.50	23.20	22.83	22.77
			1	74	23.50	23.27	22.81	22.84
			36	0	22.00	21.10	21.40	21.46
			36	18	22.00	21.11	21.51	21.42
			36	37	22.00	21.22	21.34	21.52
			75	0	21.50	21.20	21.40	21.33
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	23.33	23.45	23.31
			1	49	24.00	23.41	23.58	23.31
			1	99	24.00	23.56	23.62	23.46
			50	0	22.50	22.04	22.27	22.26
			50	24	22.50	22.13	22.37	22.37
			50	49	22.50	22.19	22.32	22.44
			100	0	22.50	22.11	22.40	22.35
		16QAM	1	0	23.50	22.70	22.79	22.95
			1	49	23.50	22.83	22.91	22.96
			1	99	23.50	22.84	22.88	23.06
			50	0	22.00	21.20	21.35	21.40
			50	24	22.00	21.19	21.43	21.39
			50	49	22.00	21.28	21.41	21.51
			100	0	21.50	21.29	21.45	21.38

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20407/824.7	20525/836.5	20643/848.3
LTE Band 5	1.4MHz	QPSK	1	0	23.50	22.94	23.18	23.02
			1	2	23.50	22.95	23.12	22.96
			1	5	23.50	22.94	23.24	23.01
			3	0	23.50	23.07	23.14	23.13
			3	1	23.50	23.14	23.17	23.05
			3	2	23.50	23.07	23.20	23.12
			6	0	22.50	22.14	22.10	21.99
		16QAM	1	0	23.50	22.63	23.24	23.19
			1	2	23.50	22.73	23.22	23.14
			1	5	23.50	22.61	23.38	23.08
			3	0	23.00	22.36	22.48	22.35
			3	1	23.00	22.42	22.61	22.32
			3	2	23.00	22.37	22.50	22.27
			6	0	21.50	20.97	21.05	20.84
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20415/825.5	20525/836.5	20635/847.5
LTE Band 5	3MHz	QPSK	1	0	23.50	23.08	23.38	23.27
			1	7	23.50	23.12	23.37	23.27
			1	14	23.50	23.10	23.44	23.21

			8	0	22.50	22.16	22.26	22.14
			8	4	22.50	22.03	22.19	22.07
			8	7	22.50	22.17	22.16	22.08
			15	0	22.50	21.96	22.12	22.02
		16QAM	1	0	23.50	23.19	22.69	22.72
			1	7	23.50	23.28	22.75	22.46
			1	14	23.50	23.25	22.71	22.63
			8	0	21.50	21.27	21.34	21.25
			8	4	21.50	21.32	21.44	21.33
			8	7	21.50	21.39	21.45	21.34
15	0	21.50	21.23	21.42	21.26			
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20425/826.5	20525/836.5	20625/846.5
LTE Band 5	5MHz	QPSK	1	0	23.50	23.06	23.13	23.28
			1	12	23.50	23.01	23.20	23.17
			1	24	23.50	23.08	23.16	23.12
			12	0	22.50	22.10	22.07	22.08
			12	6	22.50	22.15	22.21	22.10
			12	11	22.50	22.09	22.26	22.08
			25	0	22.50	22.17	22.18	22.04
		16QAM	1	0	23.50	23.25	23.21	23.28
			1	12	23.50	23.08	23.26	23.15
			1	24	23.50	23.23	23.34	23.23
			12	0	21.50	21.24	21.28	21.28
			12	6	21.50	21.16	21.34	21.19
			12	11	21.50	21.24	21.32	21.19
			25	0	21.50	21.11	21.24	21.19
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	24.00	23.36	23.40	23.52
			1	24	24.00	23.37	23.45	23.40
			1	49	24.00	23.41	23.49	23.38
			25	0	22.50	22.01	22.24	22.13
			25	12	22.50	22.01	22.13	22.11
			25	24	22.50	22.02	22.27	22.16
			50	0	22.50	22.20	22.16	22.11
		16QAM	1	0	23.00	22.74	22.71	22.95
			1	24	23.00	22.76	22.71	22.74

			1	49	23.00	22.78	22.73	22.58
			25	0	22.00	21.41	21.46	21.55
			25	12	22.00	21.44	21.52	21.48
			25	24	22.00	21.38	21.53	21.42
			50	0	21.50	21.20	21.31	21.29

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	23.31	23.87	23.81
			1	12	24.00	23.33	23.82	23.67
			1	24	24.00	23.35	23.84	23.63
			12	0	23.00	22.51	22.61	22.55
			12	6	23.00	22.55	22.66	22.44
			12	11	23.00	22.54	22.68	22.41
			25	0	23.00	22.40	22.60	22.51
		16QAM	1	0	23.50	23.06	23.04	23.22
			1	12	23.50	23.05	23.24	23.03
			1	24	23.50	23.08	23.10	23.05
			12	0	22.00	21.55	21.71	21.55
			12	6	22.00	21.62	21.77	21.60
			12	11	22.00	21.61	21.77	21.51
			25	0	22.00	21.83	21.91	21.80
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	23.67	23.55	23.61
			1	24	24.00	23.89	23.61	23.59
			1	49	24.00	23.88	23.58	23.45
			25	0	23.00	22.53	22.58	22.57
			25	12	23.00	22.41	22.64	22.57
			25	24	23.00	22.45	22.59	22.39
			50	0	23.00	22.44	22.68	22.61
		16QAM	1	0	24.00	23.07	23.74	23.74
			1	24	24.00	23.17	23.72	23.77
			1	49	24.00	22.95	23.69	23.57
			25	0	22.00	21.77	21.62	21.65
			25	12	22.00	21.84	21.66	21.65
			25	24	22.00	21.75	21.62	21.50
			50	0	22.00	21.64	21.61	21.72

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	23.51	23.75	23.84
			1	37	24.00	23.48	23.83	23.78
			1	74	24.00	23.33	23.74	23.62
			36	0	23.00	22.61	22.58	22.63
			36	18	23.00	22.39	22.62	22.53
			36	37	23.00	22.44	22.68	22.38
			75	0	23.00	22.35	22.60	22.52
		16QAM	1	0	24.00	23.67	23.13	23.07
			1	37	24.00	23.75	23.10	23.13
			1	74	24.00	23.61	22.98	22.93
			36	0	22.00	21.51	21.76	21.76
			36	18	22.00	21.49	21.82	21.80
			36	37	22.00	21.49	21.78	21.64
			75	0	22.00	21.63	21.67	21.54
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	23.58	23.68	23.67
			1	49	24.00	23.55	23.76	23.68
			1	99	24.00	23.43	23.72	23.53
			50	0	23.00	22.49	22.55	22.63
			50	24	23.00	22.41	22.68	22.67
			50	49	23.00	22.24	22.45	22.50
			100	0	23.00	22.45	22.66	22.55
		16QAM	1	0	23.50	22.96	23.24	22.98
			1	49	23.50	22.89	23.23	23.01
			1	99	23.50	22.80	23.14	22.81
			50	0	22.00	21.57	21.72	21.69
			50	24	22.00	21.51	21.76	21.73
			50	49	22.00	21.45	21.70	21.68
			100	0	22.00	21.45	21.64	21.63

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	1.4MHz	QPSK	1	0	24.00	23.34	23.70	23.18
			1	2	24.00	23.25	23.72	23.33

12			1	5	24.00	23.26	23.74	23.32	
				3	0	24.00	23.51	23.41	23.27
				3	1	24.00	23.54	23.47	23.38
				3	2	24.00	23.46	23.42	23.31
				6	0	22.50	22.48	22.39	22.29
			16QAM	1	0	23.50	23.21	22.33	22.95
				1	2	23.50	23.17	22.46	22.83
				1	5	23.50	23.17	22.38	22.97
				3	0	23.00	22.90	22.67	22.58
				3	1	23.00	22.93	22.75	22.70
			3	2	23.00	23.00	22.75	22.61	
			6	0	21.50	21.40	21.29	21.16	
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	24.00	23.75	23.66	23.47	
			1	7	24.00	23.75	23.69	23.42	
			1	14	24.00	23.72	23.63	23.41	
			8	0	23.00	22.62	22.36	22.35	
			8	4	23.00	22.62	22.38	22.31	
			8	7	23.00	22.58	22.36	22.36	
			15	0	23.00	22.61	22.37	22.29	
		16QAM	1	0	23.00	22.61	22.50	22.33	
			1	7	23.00	22.58	22.40	22.22	
			1	14	23.00	22.53	22.46	22.27	
			8	0	22.00	21.75	21.57	21.59	
			8	4	22.00	21.76	21.59	21.48	
			8	7	22.00	21.71	21.56	21.41	
			15	0	22.00	21.70	21.59	21.46	
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	24.00	23.56	23.69	23.75	
			1	12	24.00	23.55	23.72	23.62	
			1	24	24.00	23.51	23.65	23.44	
			12	0	23.00	22.47	22.33	22.23	
			12	6	23.00	22.61	22.43	22.32	
			12	11	23.00	22.50	22.30	22.18	
			25	0	22.50	22.49	22.33	22.29	
		16QAM	1	0	23.50	23.21	22.34	22.37	

			1	12	23.50	23.10	22.45	22.41
			1	24	23.50	23.05	22.33	22.39
			12	0	22.00	21.68	21.50	21.37
			12	6	22.00	21.63	21.43	21.48
			12	11	22.00	21.61	21.46	21.47
			25	0	22.00	21.52	21.63	21.59
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	24.00	23.47	23.53	23.44
			1	24	24.00	23.38	23.52	23.38
			1	49	24.00	23.17	23.42	23.37
			25	0	23.00	22.56	22.43	22.45
			25	12	23.00	22.41	22.42	22.38
			25	24	23.00	22.44	22.30	22.27
			50	0	22.50	22.39	22.43	22.20
		16QAM	1	0	23.50	22.62	22.99	23.03
			1	24	23.50	22.51	22.90	22.93
			1	49	23.50	22.45	22.94	22.80
			25	0	22.00	21.79	21.56	21.40
			25	12	22.00	21.72	21.40	21.35
			25	24	22.00	21.67	21.46	21.34
			50	0	22.00	21.51	21.50	21.32

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23205/779.5	23230/782	23255/784.5
LTE Band 13	5MHz	QPSK	1	0	23.50	22.47	22.97	23.06
			1	12	23.50	22.49	22.97	22.90
			1	24	23.50	22.41	22.90	22.82
			12	0	22.00	21.71	21.75	21.66
			12	6	22.00	21.65	21.64	21.64
			12	11	22.00	21.54	21.64	21.59
			25	0	22.00	21.66	21.54	21.66
		16QAM	1	0	22.50	22.30	21.77	21.79
			1	12	22.50	22.27	21.71	21.73
			1	24	22.50	22.28	21.71	21.60
			12	0	21.00	20.79	20.76	20.74
			12	6	21.00	20.81	20.68	20.73
			12	11	21.00	20.79	20.83	20.73

			25	0	21.00	20.67	20.92	20.94
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		/	23230/782	/
LTE Band 13	10MHz	QPSK	1	0	24.00	/	23.79	/
			1	24	24.00	/	23.60	/
			1	49	24.00	/	23.61	/
			25	0	23.00	/	22.71	/
			25	12	23.00	/	22.56	/
			25	24	23.00	/	22.61	/
			50	0	22.00	/	21.53	/
		16QAM	1	0	22.50	/	22.27	/
			1	24	22.50	/	22.29	/
			1	49	22.50	/	22.15	/
			25	0	21.00	/	20.74	/
			25	12	21.00	/	20.58	/
			25	24	21.00	/	20.66	/
			50	0	21.00	/	20.69	/

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26047/1850.7	26365/1882.5	26683/1914.3
LTE Band 25	1.4MHz	QPSK	1	0	23.50	22.72	23.23	23.32
			1	2	23.50	22.74	23.17	23.38
			1	5	23.50	22.74	23.17	23.31
			3	0	23.50	22.83	23.07	23.06
			3	1	23.50	22.81	23.08	23.18
			3	2	23.50	22.94	22.99	23.18
			6	0	22.50	21.86	22.05	22.10
		16QAM	1	0	22.50	22.26	21.56	22.10
			1	2	22.50	22.39	21.59	22.04
			1	5	22.50	22.29	21.54	22.13
			3	0	22.50	22.08	21.93	22.16
			3	1	22.50	22.12	21.94	22.27
			3	2	22.50	22.07	21.88	22.27
			6	0	21.50	20.89	20.87	21.03
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		

			RB Size	RB Offset		26055/1851.5	26365/1882.5	26675/1913.5
LTE Band 25	3MHz	QPSK	1	0	23.50	22.87	23.04	23.04
			1	7	23.50	22.85	23.07	23.06
			1	14	23.50	22.85	23.12	23.19
			8	0	22.50	21.92	21.95	22.06
			8	4	22.50	21.84	22.02	22.02
			8	7	22.50	21.91	21.97	22.14
			15	0	22.50	21.84	22.06	22.02
		16QAM	1	0	23.00	22.37	21.99	22.50
			1	7	23.00	22.40	22.11	22.58
			1	14	23.00	22.32	21.97	22.64
			8	0	21.50	21.25	21.13	21.11
			8	4	21.50	21.24	21.05	21.21
			8	7	21.50	21.00	21.09	21.23
			15	0	21.50	21.21	21.13	21.09
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26065/1852.5	26365/1882.5	26665/1912.5
LTE Band 25	5MHz	QPSK	1	0	23.50	23.12	23.23	23.28
			1	12	23.50	23.14	23.23	23.28
			1	24	23.50	23.15	23.29	23.42
			12	0	22.50	21.94	21.94	22.10
			12	6	22.50	21.84	21.93	22.00
			12	11	22.50	21.88	21.94	21.94
			25	0	22.00	21.89	21.98	21.97
		16QAM	1	0	22.50	21.95	22.01	21.99
			1	12	22.50	21.94	22.00	21.96
			1	24	22.50	21.87	22.06	22.08
			12	0	21.50	21.19	21.13	21.46
			12	6	21.50	21.01	21.04	21.15
			12	11	21.50	20.84	21.15	21.15
			25	0	21.50	21.08	21.18	21.30
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26090/1855	26365/1882.5	26640/1910
LTE Band	10MHz	QPSK	1	0	23.50	22.90	23.05	23.15
			1	24	23.50	22.87	23.02	23.09

25			1	49	23.50	23.01	23.07	23.18
			25	0	22.50	21.78	22.07	22.07
			25	12	22.50	21.87	22.07	22.05
			25	24	22.50	21.82	22.06	22.13
			50	0	22.00	21.82	21.94	22.00
		16QAM	1	0	23.00	22.35	22.50	22.73
			1	24	23.00	22.42	22.66	22.54
			1	49	23.00	22.46	22.60	22.66
			25	0	21.50	20.85	21.06	21.01
			25	12	21.50	20.95	21.05	21.10
			25	24	21.50	21.10	21.04	21.10
			50	0	21.50	20.90	21.14	21.11
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26115/1857.5	26365/1882.5	26615/1907.5
LTE Band 25	15MHz	QPSK	1	0	23.50	22.85	23.00	23.44
			1	37	23.50	23.05	23.14	23.30
			1	74	23.50	23.28	23.21	22.98
			36	0	22.50	21.86	22.00	22.19
			36	18	22.50	21.99	22.05	22.09
			36	37	22.50	22.05	22.09	21.99
			75	0	22.50	21.91	21.97	22.10
		16QAM	1	0	23.00	22.43	22.63	22.12
			1	37	23.00	22.34	22.62	22.09
			1	74	23.00	22.61	22.60	22.20
			36	0	21.50	20.90	21.09	21.26
			36	18	21.50	21.21	21.08	21.12
			36	37	21.50	21.07	21.12	21.34
			75	0	21.50	21.26	21.15	21.14
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26140/1860	26365/1882.5	26590/1905
LTE Band 25	20MHz	QPSK	1	0	24.00	23.11	23.18	23.56
			1	49	24.00	23.25	23.07	23.33
			1	99	24.00	23.35	23.19	23.24
			50	0	22.50	21.83	22.09	22.10
			50	24	22.50	21.92	21.95	22.09
			50	49	22.50	22.11	22.06	22.10

			100	0	22.50	22.03	22.11	22.09
		16QAM	1	0	22.50	21.82	22.06	22.23
			1	49	22.50	21.99	21.97	22.12
			1	99	22.50	22.21	22.10	22.17
			50	0	21.50	20.94	21.03	21.20
			50	24	21.50	21.05	21.04	21.17
			50	49	21.50	21.07	21.18	21.07
			100	0	21.50	20.99	21.04	21.14

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26697/814.7	26740/819	26783/823.3
LTE Band 26a	1.4MHz	QPSK	1	0	23.50	23.05	23.11	23.34
			1	2	23.50	23.05	23.11	23.35
			1	5	23.50	22.99	23.33	23.32
			3	0	23.00	22.66	22.60	22.65
			3	1	23.00	22.60	22.71	22.60
			3	2	23.00	22.52	22.70	22.60
			6	0	21.00	20.63	20.68	20.63
		16QAM	1	0	23.50	23.45	23.36	22.59
			1	2	23.50	23.48	23.40	22.61
			1	5	23.50	23.33	23.25	22.56
			3	0	22.50	22.07	22.00	21.86
			3	1	22.50	22.05	21.97	21.80
			3	2	22.50	22.03	22.04	21.80
			6	0	21.00	20.54	20.54	20.54

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26705/818.5	26740/819	26775/822.5
LTE Band 26a	3MHz	QPSK	1	0	23.50	23.09	23.39	23.36
			1	7	23.50	23.24	23.33	23.27
			1	14	23.50	23.22	23.33	23.33
			8	0	21.00	20.66	20.70	20.50
			8	4	21.00	20.68	20.61	20.54
			8	7	21.00	20.62	20.70	20.68
			15	0	21.00	20.64	20.59	20.61
		16QAM	1	0	23.50	23.47	22.68	22.68
			1	7	23.50	23.39	22.63	22.63
			1	14	23.50	23.46	22.65	22.67
			8	0	21.00	20.91	20.86	20.83

			8	4	21.00	20.89	20.89	20.86
			8	7	21.00	20.83	20.76	20.76
			15	0	21.00	20.91	20.86	20.81
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26715/816.5	26740/819	26765/821.5
LTE Band 26a	5MHz	QPSK	1	0	24.00	23.22	23.31	23.50
			1	12	24.00	23.18	23.14	23.37
			1	24	24.00	23.10	23.10	23.37
			12	0	21.00	20.66	20.79	20.67
			12	6	21.00	20.76	20.63	20.60
			12	11	21.00	20.70	20.61	20.54
			25	0	21.00	20.68	20.61	20.56
		16QAM	1	0	23.50	23.33	23.33	22.67
			1	12	23.50	23.28	23.20	22.70
			1	24	23.50	23.19	23.15	22.69
			12	0	21.00	20.78	20.85	20.76
			12	6	21.00	20.74	20.87	20.70
			12	11	21.00	20.77	20.78	20.71
			25	0	21.00	20.69	20.75	20.95
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		/	26740/819	/
LTE Band 26a	10MHz	QPSK	1	0	24.00	/	23.56	/
			1	24	24.00	/	23.30	/
			1	49	24.00	/	23.20	/
			25	0	21.50	/	21.31	/
			25	12	21.50	/	21.10	/
			25	24	21.50	/	21.18	/
			50	0	21.50	/	21.17	/
		16QAM	1	0	23.00	/	22.78	/
			1	24	23.00	/	22.71	/
			1	49	23.00	/	22.53	/
			25	0	22.00	/	21.52	/
			25	12	22.00	/	21.46	/
			25	24	22.00	/	21.40	/
			50	0	21.50	/	21.27	/

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26797/824.7	26915/836.5	27033/848.3
LTE Band 26b	1.4MHz	QPSK	1	0	23.50	22.90	23.12	22.98
			1	2	23.50	22.96	23.10	22.99
			1	5	23.50	22.90	23.20	22.98
			3	0	23.00	22.53	22.61	22.67
			3	1	23.00	22.61	22.70	22.56
			3	2	23.00	22.54	22.66	22.67
			6	0	21.00	20.65	20.64	20.56
		16QAM	1	0	23.50	22.54	23.13	23.15
			1	2	23.50	22.58	23.24	23.18
			1	5	23.50	22.58	23.34	22.96
			3	0	22.50	22.00	22.01	21.77
			3	1	22.50	22.02	21.98	21.81
			3	2	22.50	21.97	21.90	21.80
			6	0	20.50	20.47	20.49	20.39
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26805/825.5	26915/836.5	27025/847.5
LTE Band 26b	3MHz	QPSK	1	0	23.50	23.03	23.38	23.09
			1	7	23.50	23.04	23.32	23.07
			1	14	23.50	23.04	23.37	22.97
			8	0	21.00	20.64	20.71	20.59
			8	4	21.00	20.69	20.70	20.57
			8	7	21.00	20.61	20.58	20.59
			15	0	21.00	20.63	20.62	20.52
		16QAM	1	0	23.50	23.29	22.68	23.39
			1	7	23.50	23.19	22.60	23.48
			1	14	23.50	23.18	22.68	23.28
			8	0	21.00	20.87	20.80	20.77
			8	4	21.00	20.79	20.93	20.77
			8	7	21.00	20.86	20.91	20.81
			15	0	21.00	20.76	20.82	20.79
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26815/826.5	26915/836.5	27015/846.5
LTE Band	5MHz	QPSK	1	0	23.50	23.18	23.44	23.23
			1	12	23.50	23.07	23.37	23.12

26b			1	24	23.50	23.01	23.42	23.06
			12	0	21.00	20.69	20.69	20.58
			12	6	21.00	20.61	20.58	20.59
			12	11	21.00	20.56	20.76	20.58
			25	0	21.00	20.61	20.68	20.57
		16QAM	1	0	23.50	23.27	22.70	23.22
			1	12	23.50	23.19	22.70	23.14
			1	24	23.50	23.06	22.77	23.06
			12	0	21.00	20.71	20.72	20.74
			12	6	21.00	20.77	20.86	20.70
			12	11	21.00	20.77	20.79	20.66
			25	0	21.00	20.63	20.96	20.60
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26840/829	26915/836.5	26990/844
LTE Band 26b	10MHz	QPSK	1	0	23.50	23.14	23.42	23.45
			1	24	23.50	23.06	23.42	23.39
			1	49	23.50	23.16	23.43	23.31
			25	0	21.50	20.99	21.17	21.21
			25	12	21.50	21.16	21.10	21.03
			25	24	21.50	21.00	21.21	21.02
			50	0	21.50	21.12	21.24	21.05
		16QAM	1	0	23.50	23.17	22.66	22.75
			1	24	23.50	23.19	22.68	22.59
			1	49	23.50	23.21	22.81	22.59
			25	0	22.00	21.17	21.42	21.56
			25	12	22.00	21.02	21.42	21.47
			25	24	22.00	21.18	21.50	21.42
			50	0	21.50	21.14	21.20	21.23
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26865/831.5	26915/836.5	26965/841.5
LTE Band 26b	15MHz	QPSK	1	0	23.50	23.11	23.39	23.48
			1	37	23.50	23.10	23.38	23.47
			1	74	23.50	23.12	23.38	23.33
			36	0	21.50	20.99	21.10	21.20
			36	18	21.50	21.03	21.22	21.27
			36	37	21.50	21.02	21.27	21.09
			75	0	21.50	21.12	21.12	21.24
		16QAM	1	0	23.50	23.36	22.68	22.76

			1	37	23.50	23.17	22.76	22.67
			1	74	23.50	23.30	22.76	22.50
			36	0	21.50	21.17	21.33	21.20
			36	18	21.50	21.21	21.23	21.35
			36	37	21.50	21.11	21.27	21.24
			75	0	21.50	21.20	21.13	21.25

Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)			
		RB Size	RB Offset		40065/2537.5	40350/2566	40640/2595	41215/2652.5
5MHz	QPSK	1	0	24.50	24.2	23.87	23.8	23.07
		1	12	24.50	23.46	23.67	24.01	23.6
		1	24	24.50	23.67	23.42	23.2	23.17
		12	0	23.50	23.32	23.4	23.48	22.38
		12	6	23.50	23.05	22.28	23.42	22.28
		12	11	23.50	22.97	23.2	23.27	22.04
		25	0	23.50	23.06	23.02	23.28	22.36
	16QAM	1	0	23.00	22.92	22.66	22.42	21.99
		1	12	23.00	22.09	22.59	22.8	21.59
		1	24	23.00	22.3	21.55	21.9	21.5
		12	0	22.50	21.92	21.2	22.13	20.96
		12	6	22.50	21.61	21.26	22.02	20.85
		12	11	22.50	21.49	21.65	21.8	20.66
		25	0	22.00	21.59	21.45	21.95	20.97
Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)			
		RB Size	RB Offset		40090/2540	40350/2566	40640/2595	41190/2650
10MHz	QPSK	1	0	25.00	24.62	24.67	24.28	23.42
		1	24	25.00	24.67	22.15	24.32	23.27
		1	49	25.00	24.24	22.57	24.31	23.13
		25	0	24.00	23.92	23.57	23.95	22.97
		25	12	24.00	23.73	22.15	23.95	22.89
		25	24	24.00	23.48	22.98	23.92	22.84
		50	0	24.00	23.67	22.92	23.85	22.91
	16QAM	1	0	24.00	23.92	23.7	23.87	22.47
		1	24	24.00	23.63	22.64	23.77	22.36

		1	49	24.00	23.13	22.26	23.45	22.22
		25	0	23.00	22.48	22.1	22.74	21.41
		25	12	23.00	22.46	21.84	22.72	21.26
		25	24	23.00	22.16	22.65	22.53	21.43
		50	0	23.00	22.38	22.51	22.61	21.3
Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)			
		RB Size	RB Offset		40115/2542.5	40350/2566	40640/2595	41165/2647.5
15MHz	QPSK	1	0	24.50	24.21	22.81	24.46	23.88
		1	37	24.50	23.65	22.49	24.27	23.4
		1	74	24.50	23.32	22.11	24.02	23.91
		36	0	24.50	23.36	22.2	24.07	23.3
		36	18	24.50	23.19	23.79	23.89	23.99
		36	37	24.50	22.84	22.27	23.8	23.78
		75	0	24.00	23.11	22.04	23.91	22.04
	16QAM	1	0	24.00	22.94	22.65	23.87	22.74
		1	37	24.00	22.27	22.34	23.74	22.31
		1	74	24.00	21.9	23.23	23.28	22.02
		36	0	23.00	22.04	22.09	22.5	21.45
		36	18	23.00	21.68	22.4	22.47	21.23
		36	37	23.00	21.27	21.55	22.26	21.25
		75	0	23.00	21.8	21.47	22.57	21.43
Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)			
		RB Size	RB Offset		40140/2545	40350/2566	40640/2595	41140/2645
20MHz	QPSK	1	0	25.00	24.51	23.57	24.09	23.96
		1	49	25.00	24.56	23.72	24.08	23.18
		1	99	25.00	24.28	23.88	23.86	23.61
		50	0	24.50	24.09	23.2	23.43	23.67
		50	24	24.50	23.98	23.27	23.51	23.71
		50	49	24.50	23.81	23.58	23.42	23.5
		100	0	24.00	23.84	22.97	23.48	22.6
	16QAM	1	0	24.00	23.89	23.62	22.81	21.71
		1	49	24.00	23.78	22.81	22.76	21.47
		1	99	24.00	23.6	22.6	22.48	21.53
		50	0	23.00	22.6	22.34	22.03	20.78
		50	24	23.00	22.52	21.63	21.95	20.86

		50	49	23.00	22.37	21.17	21.93	20.79
		100	0	22.50	22.47	21.18	22.17	20.89

Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)			
		RB Size	RB Offset		40065/2537.5	40350/2566	40640/2595	41215/2652.5
5MHz	QPSK	1	0	24.50	24.2	23.87	23.8	23.07
		1	12	24.50	23.46	23.67	24.01	23.6
		1	24	24.50	23.67	23.42	23.2	23.17
		12	0	23.50	23.32	23.4	23.48	22.38
		12	6	23.50	23.05	22.28	23.42	22.28
		12	11	23.50	22.97	23.2	23.27	22.04
		25	0	23.50	23.06	23.02	23.28	22.36
	16QAM	1	0	23.00	22.92	22.66	22.42	21.99
		1	12	23.00	22.09	22.59	22.8	21.59
		1	24	23.00	22.3	21.55	21.9	21.5
		12	0	22.50	21.92	21.2	22.13	20.96
		12	6	22.50	21.61	21.26	22.02	20.85
		12	11	22.50	21.49	21.65	21.8	20.66
		25	0	22.00	21.59	21.45	21.95	20.97
Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)			
		RB Size	RB Offset		40090/2540	40350/2566	40640/2595	41190/2650
10MHz	QPSK	1	0	25.00	24.62	24.67	24.28	23.42
		1	24	25.00	24.67	22.15	24.32	23.27
		1	49	25.00	24.24	22.57	24.31	23.13
		25	0	24.00	23.92	23.57	23.95	22.97
		25	12	24.00	23.73	22.15	23.95	22.89
		25	24	24.00	23.48	22.98	23.92	22.84
		50	0	24.00	23.67	22.92	23.85	22.91
	16QAM	1	0	24.00	23.92	23.7	23.87	22.47
		1	24	24.00	23.63	22.64	23.77	22.36
		1	49	24.00	23.13	22.26	23.45	22.22
		25	0	23.00	22.48	22.1	22.74	21.41
		25	12	23.00	22.46	21.84	22.72	21.26
		25	24	23.00	22.16	22.65	22.53	21.43

		50	0	23.00	22.38	22.51	22.61	21.3
Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)			
		RB Size	RB Offset		40115/2542.5	40350/2566	40640/2595	41165/2647.5
15MHz	QPSK	1	0	24.50	24.21	22.81	24.46	23.88
		1	37	24.50	23.65	22.49	24.27	23.4
		1	74	24.50	23.32	22.11	24.02	23.91
		36	0	24.50	23.36	22.2	24.07	23.3
		36	18	24.50	23.19	23.79	23.89	23.99
		36	37	24.50	22.84	22.27	23.8	23.78
		75	0	24.00	23.11	22.04	23.91	22.04
	16QAM	1	0	24.00	22.94	22.65	23.87	22.74
		1	37	24.00	22.27	22.34	23.74	22.31
		1	74	24.00	21.9	23.23	23.28	22.02
		36	0	23.00	22.04	22.09	22.5	21.45
		36	18	23.00	21.68	22.4	22.47	21.23
		36	37	23.00	21.27	21.55	22.26	21.25
		75	0	23.00	21.8	21.47	22.57	21.43
Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)			
		RB Size	RB Offset		40140/2545	40350/2566	40640/2595	41140/2645
20MHz	QPSK	1	0	25.00	24.51	23.57	24.09	23.96
		1	49	25.00	24.56	23.72	24.08	23.18
		1	99	25.00	24.28	23.88	23.86	23.61
		50	0	24.50	24.09	23.2	23.43	23.67
		50	24	24.50	23.98	23.27	23.51	23.71
		50	49	24.50	23.81	23.58	23.42	23.5
		100	0	24.00	23.84	22.97	23.48	22.6
	16QAM	1	0	24.00	23.89	23.62	22.81	21.71
		1	49	24.00	23.78	22.81	22.76	21.47
		1	99	24.00	23.6	22.6	22.48	21.53
		50	0	23.00	22.6	22.34	22.03	20.78
		50	24	23.00	22.52	21.63	21.95	20.86
		50	49	23.00	22.37	21.17	21.93	20.79
		100	0	22.50	22.47	21.18	22.17	20.89
Band	Band Width	Modulation		RB Configuration	Tune-up	Channel/Frequency(MHz)		

			RB Size	RB Offset	(dBm)	131979/1710. 7	132322/174 5	132665/1779. 3
LTE Band 66	1.4MHz	QPSK	1	0	24.50	23.22	23.82	24.01
			1	2	24.50	23.20	23.87	23.94
			1	5	24.50	23.23	23.72	23.95
			3	0	24.00	23.43	23.73	23.73
			3	1	24.00	23.47	23.68	23.75
			3	2	24.00	23.40	23.63	23.79
		16QAM	6	0	23.00	22.35	22.66	22.73
			1	0	23.00	22.88	22.79	22.79
			1	2	23.00	22.97	22.75	22.72
			1	5	23.00	22.91	22.86	22.81
			3	0	23.50	22.69	22.82	22.93
			3	1	23.50	22.73	23.05	22.97
			3	2	23.50	22.68	23.00	22.88
			6	0	22.00	21.17	21.51	21.66
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		131987/1711. 5	132322/174 5	132657/1778. 5
LTE Band 66	3MHz	QPSK	1	0	24.00	23.62	23.81	23.74
			1	7	24.00	23.77	23.75	23.81
			1	14	24.00	23.68	23.82	23.82
			8	0	23.00	22.44	22.63	22.79
			8	4	23.00	22.39	22.72	22.75
			8	7	23.00	22.37	22.70	22.72
			15	0	23.00	22.35	22.67	22.72
		16QAM	1	0	23.50	23.05	22.86	23.42
			1	7	23.50	23.00	22.80	23.31
			1	14	23.50	22.86	22.80	23.16
			8	0	22.00	21.58	21.82	21.90
			8	4	22.00	21.53	21.88	21.88
			8	7	22.00	21.53	21.86	21.97
			15	0	22.00	21.47	21.79	21.81
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		131997/1712. 5	132322/174 5	132647/1777. 5
LTE Band	5MHz	QPSK	1	0	24.50	23.46	24.28	24.12
			1	12	24.50	23.50	24.11	24.29

66			1	24	24.50	23.70	24.13	24.21
			12	0	23.00	22.42	22.73	22.79
			12	6	23.00	22.41	22.62	22.72
			12	11	23.00	22.34	22.71	22.74
			25	0	23.00	22.29	22.69	22.72
		16QAM	1	0	23.50	23.03	22.75	22.89
			1	12	23.50	22.99	22.75	22.78
			1	24	23.50	23.01	22.89	22.77
			12	0	22.00	21.47	21.86	21.92
			12	6	22.00	21.52	21.82	21.81
			12	11	22.00	21.45	21.82	21.89
			25	0	22.50	21.38	21.91	22.01
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		132022/1715	132322/1745	132622/1775
LTE Band 66	10MHz	QPSK	1	0	24.00	23.71	23.70	23.89
			1	24	24.00	23.71	23.80	23.82
			1	49	24.00	23.79	23.87	23.98
			25	0	23.00	22.44	22.64	22.86
			25	12	23.00	22.45	22.72	22.85
			25	24	23.00	22.43	22.66	22.71
			50	0	23.00	22.51	22.72	22.92
		16QAM	1	0	24.00	22.55	23.27	23.50
			1	24	24.00	22.40	23.44	23.24
			1	49	24.00	22.60	23.42	23.31
			25	0	22.00	21.70	21.77	21.88
			25	12	22.00	21.67	21.72	21.91
			25	24	22.00	21.74	21.71	21.82
			50	0	22.00	21.54	21.82	21.86
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		132047/1717.5	132322/1745	132597/1772.5
LTE Band 66	15MHz	QPSK	1	0	24.50	23.47	23.81	24.04
			1	37	24.50	23.54	23.88	24.14
			1	74	24.50	23.64	23.91	24.06
			36	0	23.00	22.35	22.70	22.87
			36	18	23.00	22.53	22.64	22.71
			36	37	23.00	22.49	22.74	22.77

			75	0	23.00	22.45	22.73	22.78
		16QAM	1	0	23.50	23.04	22.68	22.77
			1	37	23.50	23.09	22.62	22.78
			1	74	23.50	23.22	22.87	22.71
			36	0	22.50	21.44	21.88	22.03
			36	18	22.50	21.53	21.86	21.85
			36	37	22.50	21.64	21.93	21.90
			75	0	22.00	21.60	21.69	21.83
Band	Band Width	Modulation	RB Configuration		Tune-up P (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		132072/1720	132322/1745	132572/1770
LTE Band 66	20MHz	QPSK	1	0	24.50	23.69	23.73	24.05
			1	49	24.50	23.72	23.77	24.19
			1	99	24.50	24.09	23.90	24.04
			50	0	24.00	23.36	23.72	23.79
			50	24	24.00	23.50	23.75	23.93
			50	49	24.00	23.56	23.64	23.76
			100	0	24.00	22.53	23.64	22.86
		16QAM	1	0	23.50	22.59	22.83	22.89
			1	49	23.50	22.65	22.89	22.80
			1	99	23.50	22.77	23.04	22.68
			50	0	22.50	21.52	21.76	21.89
			50	24	22.50	21.59	21.79	22.01
			50	49	22.50	21.71	21.82	21.79
			100	0	22.00	21.57	21.81	21.91

7.4. WLAN & Bluetooth Output Power

7.4.1. Output Power Results Of WLAN

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11b	1	2412	12.50	11.18
	6	2437	12.50	12.20
	11	2462	12.50	11.06
802.11g	1	2412	12.00	11.27
	6	2437	12.00	11.33
	11	2462	12.00	11.75

802.11n HT20	1	2412	12.00	11.63
	6	2437	12.00	11.34
	11	2462	12.00	11.62
802.11n HT40	3	2422	12.00	11.47
	6	2437	12.00	11.97
	9	2452	12.00	11.25

NOTE: Power measurement results of WLAN 2.4G.

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11a	36	5180	5.50	4.94
	40	5200	5.50	5.21
	48	5240	5.50	5.48
802.11n HT20	36	5180	5.50	4.96
	40	5200	5.50	5.13
	48	5240	5.50	5.29
802.11n HT40	38	5190	6.00	5.33
	46	5230	6.00	5.78
802.11ac VHT20	36	5180	5.50	4.87
	40	5200	5.50	5.10
	48	5240	5.50	5.49
802.11ac VHT40	38	5190	6.00	5.26
	46	5230	6.00	5.55
802.11ac VHT80	42	5210	5.50	5.29

NOTE: Power measurement results of WLAN 5.2G.

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11a	52	5260	6.50	6.19
	56	5280	6.50	5.88
	64	5320	6.50	5.59
802.11n HT20	52	5260	6.50	6.20
	56	5280	6.50	5.96
	64	5320	6.50	5.65
802.11n HT40	54	5270	7.00	6.61
	62	5310	7.00	6.11
802.11ac VHT20	52	5260	7.00	6.30
	56	5280	7.00	6.50
	64	5320	7.00	5.72
802.11ac VHT40	54	5270	7.00	6.95

	62	5310	7.00	6.23
802.11ac VHT80	58	5290	6.50	6.21

NOTE: Power measurement results of WLAN 5.3G.

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11a	100	5500	8.50	7.00
	120	5600	8.50	8.05
	140	5700	8.50	7.93
802.11n	100	5500	8.50	7.20
	120	5600	8.50	8.07
	140	5700	8.50	8.12
802.11n	102	5510	9.00	7.71
	118	5590	9.00	8.52
	134	5670	9.00	8.08
802.11ac (VHT20)	100	5500	8.50	7.09
	120	5600	8.50	8.15
	140	5700	8.50	7.97
802.11ac (VHT40)	102	5510	9.00	7.52
	118	5590	9.00	8.56
	134	5670	9.00	8.36
802.11ac (VHT80)	106	5530	8.50	6.88
	122	5610	8.50	8.10

NOTE: Power measurement results of WLAN 5.6G.

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11a	149	5745	8.50	8.15
	157	5785	8.50	8.34
	165	5825	8.50	7.79
802.11n HT20	149	5745	8.50	8.11
	157	5785	8.50	8.33
	165	5825	8.50	7.91
802.11n HT40	151	5755	9.00	8.50
	159	5795	9.00	8.04
802.11ac VHT20	149	5745	8.50	8.09
	157	5785	8.50	8.09
	165	5825	8.50	7.90

802.11ac VHT40	151	5755	9.00	8.54
	159	5795	9.00	8.46
802.11ac VHT80	155	5775	8.50	8.01

NOTE: Power measurement results of WLAN 5.8G.

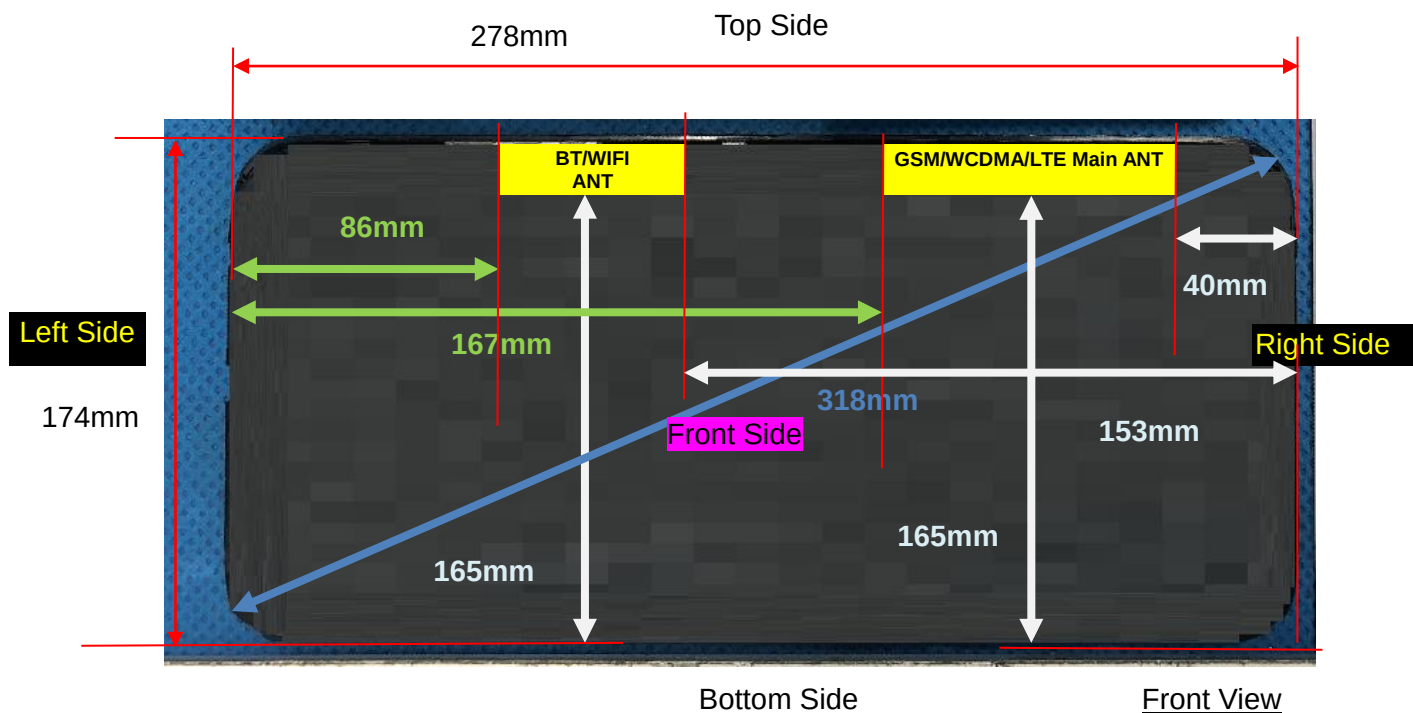
7.4.2. Output Power Results Of Bluetooth

Output Power Results Of Bluetooth

BR+EDR	Output Power (dBm)				
	Data Rates	Tune-up (dBm)	Channel		
			0CH	39CH	78CH
	1M	7.50	7.43	7.31	6.75
	2M	8.00	7.15	7.50	6.23
	3M	8.00	7.29	7.69	6.46

BLE	Output Power (dBm)				
	Data Rates	Tune-up (dBm)	Channe		
			0CH	19CH	39CH
	1M	0	-0.34	-0.15	-1.40
	2M	0	-0.57	-0.39	-1.55

8. Antenna Location



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

Distance of the Antenna to the EUT surface/edge						
Antennas	Front Side	Back Side	Left Side	Right Side	Top Side	Bottom Side
WLAN & Bluetooth	5	5	86	153	5	165
WWAN	5	5	167	40	5	165

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

Positions for SAR tests		
Test separation distances ≤ 50 mm		
Exposure Positions	Tune-up Maximum power of WLAN 2.4G	
	12.50dBm	17.78mW
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	10.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	10.00
	SAR testing required?	YES
Top Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	10.00
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of WLAN 5.2G	

	6.00dBm	3.98mW
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	7.00
	SAR testing required?	NO
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	7.00
	SAR testing required?	NO
Top Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	7.00
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of WLAN 5.8G	
	9.00dBm	7.94mW
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	6.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	6.00
	SAR testing required?	YES
Top Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	6.00
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of GSM 850	
	32.50dBm	1778.28
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	16.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	16.00
	SAR testing required?	YES
Right Side	Antenna to user(mm)	40
	SAR exclusion threshold (mW)	131
	SAR testing required?	YES
Top Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	16.00
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of GSM 1900	
	29.00dBm	794.33
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	11.00
	SAR testing required?	YES

Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	11.00
	SAR testing required?	YES
Right Side	Antenna to user(mm)	40
	SAR exclusion threshold (mW)	87
	SAR testing required?	YES
Top Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	11.00
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of WCDMA Band 2	
	22.00dBm	158.49mW
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	11.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	11.00
	SAR testing required?	YES
Right Side	Antenna to user(mm)	40
	SAR exclusion threshold (mW)	87
	SAR testing required?	YES
Top Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	11.00
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of WCDMA Band 4	
	27.00dBm	501.19mW
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	11.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	11.00
	SAR testing required?	YES
Right Side	Antenna to user(mm)	40
	SAR exclusion threshold (mW)	98
	SAR testing required?	YES
Top Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	11.00
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of WCDMA Band 5	
	22.00dBm	158.49mW

Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	16.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	16.00
	SAR testing required?	YES
Right Side	Antenna to user(mm)	40
	SAR exclusion threshold (mW)	131
	SAR testing required?	YES
Top Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	16.00
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band 2	
	25.00dBm	316.23 mW
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	11.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	11.00
	SAR testing required?	YES
Right Side	Antenna to user(mm)	40
	SAR exclusion threshold (mW)	87
	SAR testing required?	YES
Top Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	11.00
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band 4	
	24.00dBm	251.19 mW
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	12.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	12.00
	SAR testing required?	YES
Right Side	Antenna to user(mm)	40
	SAR exclusion threshold (mW)	98
	SAR testing required?	YES
Top Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	12.00
	SAR testing required?	YES

Exposure Positions	Tune-up Maximum power of LTE Band 5	
	24.00dBm	251.19mW
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	16.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	16.00
	SAR testing required?	YES
Right Side	Antenna to user(mm)	40
	SAR exclusion threshold (mW)	131
	SAR testing required?	YES
Top Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	16.00
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band 12	
	24.00dBm	251.19mW
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	22.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	22.00
	SAR testing required?	YES
Right Side	Antenna to user(mm)	40
	SAR exclusion threshold (mW)	179
	SAR testing required?	YES
Top Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	22.00
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band 13	
	24.00dBm	251.19mW
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	22.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	22.00
	SAR testing required?	YES
Right Side	Antenna to user(mm)	40
	SAR exclusion threshold (mW)	179
	SAR testing required?	YES
Top Side	Antenna to user(mm)	5

	SAR exclusion threshold (mW)	22.00
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band 25	
	24.00dBm	251.19mW
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	11.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	11.00
	SAR testing required?	YES
Right Side	Antenna to user(mm)	40
	SAR exclusion threshold (mW)	87
	SAR testing required?	YES
Top Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	11.00
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band 26a	
	24.00dBm	251.19mW
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	16.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	16.00
	SAR testing required?	YES
Right Side	Antenna to user(mm)	40
	SAR exclusion threshold (mW)	131
	SAR testing required?	YES
Top Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	16.00
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band 26b	
	23.50dBm	223.87mW
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	16.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	16.00
	SAR testing required?	YES
Right Side	Antenna to user(mm)	40
	SAR exclusion threshold (mW)	131

	SAR testing required?	YES
Top Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	16.00
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band 41	
	25.00dBm	316.23mW
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	10.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	10.00
	SAR testing required?	YES
Right Side	Antenna to user(mm)	40
	SAR exclusion threshold (mW)	77
	SAR testing required?	YES
Top Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	10.00
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band 66	
	24.50dBm	281.84mW
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	12.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	12.00
	SAR testing required?	YES
Right Side	Antenna to user(mm)	40
	SAR exclusion threshold (mW)	98
	SAR testing required?	YES
Top Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	12.00
	SAR testing required?	YES

NOTE: Refer to section 4.3.1 of KDB 447498 D01.

Positions for SAR tests		
Test separation distances > 50 mm		
Exposure Positions	Tune-up Maximum power of WLAN 2.4G	
	12.50dBm	17.78mW
Left Side	Antenna to user(mm)	86
	SAR exclusion threshold (mW)	456

	SAR testing required?	NO
Right Side	Antenna to user(mm)	153
	SAR exclusion threshold (mW)	453
	SAR testing required?	NO
Bottom Side	Antenna to user(mm)	165
	SAR exclusion threshold (mW)	465
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of WLAN 5.2G	
	6.00dBm	3.98mW
Left Side	Antenna to user(mm)	86
	SAR exclusion threshold (mW)	426
	SAR testing required?	NO
Right Side	Antenna to user(mm)	153
	SAR exclusion threshold (mW)	1096
	SAR testing required?	NO
Bottom Side	Antenna to user(mm)	165
	SAR exclusion threshold (mW)	1216
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of WLAN 5.8G	
	9.00dBm	7.94mW
Left Side	Antenna to user(mm)	86
	SAR exclusion threshold (mW)	422
	SAR testing required?	NO
Right Side	Antenna to user(mm)	153
	SAR exclusion threshold (mW)	1092
	SAR testing required?	NO
Bottom Side	Antenna to user(mm)	165
	SAR exclusion threshold (mW)	1212
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of GSM 850	
	32.50dBm	1778.28 mW
Right Side	Antenna to user(mm)	167
	SAR exclusion threshold (mW)	1334
	SAR testing required?	NO
Bottom Side	Antenna to user(mm)	165
	SAR exclusion threshold (mW)	1314
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of GSM 1900	
	29.00dBm	794.33 mW
Right Side	Antenna to user(mm)	167

	SAR exclusion threshold (mW)	1279
	SAR testing required?	NO
Bottom Side	Antenna to user(mm)	165
	SAR exclusion threshold (mW)	1259
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of WCDMA Band 2	
	22.00dBm	158.49mW
Right Side	Antenna to user(mm)	167
	SAR exclusion threshold (mW)	1279
	SAR testing required?	NO
Bottom Side	Antenna to user(mm)	165
	SAR exclusion threshold (mW)	1259
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of WCDMA Band 4	
	27.00dBm	501.19mW
Right Side	Antenna to user(mm)	167
	SAR exclusion threshold (mW)	1292
	SAR testing required?	NO
Bottom Side	Antenna to user(mm)	165
	SAR exclusion threshold (mW)	1272
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of WCDMA Band 5	
	22.00dBm	158.49mW
Right Side	Antenna to user(mm)	167
	SAR exclusion threshold (mW)	1334
	SAR testing required?	NO
Bottom Side	Antenna to user(mm)	165
	SAR exclusion threshold (mW)	1314
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band 2	
	25.00dBm	316.23 mW
Right Side	Antenna to user(mm)	167
	SAR exclusion threshold (mW)	1279
	SAR testing required?	NO
Bottom Side	Antenna to user(mm)	165
	SAR exclusion threshold (mW)	1259
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band 4	
	24.00dBm	251.19 mW
Right Side	Antenna to user(mm)	167

	SAR exclusion threshold (mW)	1292
	SAR testing required?	NO
Bottom Side	Antenna to user(mm)	165
	SAR exclusion threshold (mW)	1272
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band 5	
	24.00dBm	251.19mW
Right Side	Antenna to user(mm)	167
	SAR exclusion threshold (mW)	1334
	SAR testing required?	NO
Bottom Side	Antenna to user(mm)	165
	SAR exclusion threshold (mW)	1314
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band 12	
	24.00dBm	251.19mW
Right Side	Antenna to user(mm)	167
	SAR exclusion threshold (mW)	1394
	SAR testing required?	NO
Bottom Side	Antenna to user(mm)	165
	SAR exclusion threshold (mW)	1374
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band 13	
	24.00dBm	251.19mW
Right Side	Antenna to user(mm)	167
	SAR exclusion threshold (mW)	1394
	SAR testing required?	NO
Bottom Side	Antenna to user(mm)	165
	SAR exclusion threshold (mW)	1374
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band 25	
	24.00dBm	251.19mW
Right Side	Antenna to user(mm)	167
	SAR exclusion threshold (mW)	1279
	SAR testing required?	NO
Bottom Side	Antenna to user(mm)	165
	SAR exclusion threshold (mW)	1259
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band 26a	
	24.00dBm	251.19mW
Right Side	Antenna to user(mm)	167

	SAR exclusion threshold (mW)	1334
	SAR testing required?	NO
Bottom Side	Antenna to user(mm)	165
	SAR exclusion threshold (mW)	1314
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band 26b	
	23.50dBm	223.87mW
Right Side	Antenna to user(mm)	167
	SAR exclusion threshold (mW)	1334
	SAR testing required?	NO
Bottom Side	Antenna to user(mm)	165
	SAR exclusion threshold (mW)	1314
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band 41	
	25.00dBm	316.23mW
Right Side	Antenna to user(mm)	167
	SAR exclusion threshold (mW)	1266
	SAR testing required?	NO
Bottom Side	Antenna to user(mm)	165
	SAR exclusion threshold (mW)	1246
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band 66	
	24.50dBm	281.84mW
Right Side	Antenna to user(mm)	167
	SAR exclusion threshold (mW)	1292
	SAR testing required?	NO
Bottom Side	Antenna to user(mm)	165
	SAR exclusion threshold (mW)	1272
	SAR testing required?	NO

NOTE: Refer to section 4.3.1 of KDB 447498 D01.

9. Stand-alone SAR test exclusion

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

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

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

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

Mode	P _{max} (dBm)	P _{max} (mW)	Distance (mm)	f (GHz)	Calculation Result	SAR exclusion threshold (mW)	SAR test exclusion
Bluetooth	8.00	6.31	5	2.480	1.987	3	Yes

NOTE: Standalone SAR test exclusion for Bluetooth.

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

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

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

Mode	Position	P _{max} (dBm)	P _{max} (mW)	Distance (mm)	f (GHz)	x	Estimated SAR (W/Kg)
Bluetooth	Body	8.00	6.31	5	2.48	7.5	0.265
Bluetooth	Hotspot	8.00	6.31	5	2.48	7.5	0.265

NOTE: Estimated SAR calculation for Bluetooth

10. SAR Results

10.1. SAR measurement results

10.1.1. SAR measurement Result of GSM850

Test Position of Body-Worn 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	189/836.4	GPRS(GMSK 2TS)	0.383	0.183	-3.31	30.26	30.50	0.405	2025/5/25	
Back Side	189/836.4	GPRS(GMSK 2TS)	0.477	0.230	1.56	30.26	30.50	0.504	2025/5/25	

NOTE: Body-Worn SAR test results of GSM850

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						
Front Side	189/836.4	GPRS(GMSK 2TS)	0.383	0.183	-3.31	30.26	30.50	0.405	2025/5/25	
Back Side	189/836.4	GPRS(GMSK 2TS)	0.477	0.230	1.56	30.26	30.50	0.504	2025/5/25	
Left Side	189/836.4	GPRS(GMSK 2TS)	0.051	0.024	3.71	30.26	30.50	0.054	2025/5/25	
Right Side	189/836.4	GPRS(GMSK 2TS)	0.265	0.130	-0.48	30.26	30.50	0.280	2025/5/25	
Top Side	189/836.4	GPRS(GMSK 2TS)	0.482	0.237	-0.88	30.26	30.50	0.509	2025/5/25	1#

NOTE: Hotspot SAR test results of GSM850

10.1.2. SAR measurement Result of GSM1900

Test Position of Body-Worn 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	661/1880	GPRS(GMSK 3TS)	0.128	0.063	-0.77	25.13	25.50	0.139	2025/5/26	
Back Side	661/1880	GPRS(GMSK 3TS)	0.068	0.034	2.57	25.13	25.50	0.074	2025/5/26	

NOTE: Body-Worn SAR test results of GSM1900

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						
Front Side	661/1880	GPRS(GMSK 3TS)	0.128	0.063	-0.77	25.13	25.50	0.139	2025/5/26	
Back Side	661/1880	GPRS(GMSK 3TS)	0.068	0.034	2.57	25.13	25.50	0.074	2025/5/26	
Left Side	661/1880	GPRS(GMSK 3TS)	0.020	0.018	1.11	25.13	25.50	0.022	2025/5/26	
Right Side	661/1880	GPRS(GMSK 3TS)	0.100	0.047	1.79	25.13	25.50	0.109	2025/5/26	
Top Side	661/1880	GPRS(GMSK 3TS)	0.154	0.076	3.35	25.13	25.50	0.168	2025/5/26	2#

NOTE: Hotspot SAR test results of GSM1900

10.1.3. SAR measurement Result of WCDMA Band 2

Test Position of Body-Worn 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	0.144	0.066	0.96	21.88	22.00	0.148	2025/5/26	
Back Side	9400/1880	RMC12.2K	0.072	0.034	2.59	21.88	22.00	0.074	2025/5/26	

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

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						
Front Side	9400/1880	RMC12.2K	0.144	0.066	0.96	21.88	22.00	0.148	2025/5/26	
Back Side	9400/1880	RMC12.2K	0.072	0.034	2.59	21.88	22.00	0.074	2025/5/26	
Left Side	9400/1880	RMC12.2K	0.021	0.010	3.21	21.88	22.00	0.022	2025/5/26	

Right Side	9400/1880	RMC12.2K	0.100	0.047	1.96	21.88	22.00	0.103	2025/5/26	
Top Side	9400/1880	RMC12.2K	0.165	0.079	-0.50	21.88	22.00	0.170	2025/5/26	3#

NOTE: Hotspot SAR test results of WCDMA Band 2

10.1.4. SAR measurement Result of WCDMA Band 4

Test Position of Body-Worn 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	1413/1732.6	RMC12.2K	0.080	0.037	2.98	26.49	27.00	0.090	2025/5/22	
Back Side	1413/1732.6	RMC12.2K	0.036	0.017	1.25	26.49	27.00	0.040	2025/5/22	

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

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						
Front Side	1413/1732.6	RMC12.2K	0.080	0.037	2.98	26.49	27.00	0.090	2025/5/22	
Back Side	1413/1732.6	RMC12.2K	0.036	0.017	1.25	26.49	27.00	0.040	2025/5/22	
Left Side	1413/1732.6	RMC12.2K	0.011	0.009	-1.97	26.49	27.00	0.012	2025/5/22	
Right Side	1413/1732.6	RMC12.2K	0.050	0.024	3.06	26.49	27.00	0.056	2025/5/22	
Top Side	1413/1732.6	RMC12.2K	0.087	0.042	-0.77	26.49	27.00	0.098	2025/5/22	4#

NOTE: Hotspot SAR test results of WCDMA Band 4

10.1.5. SAR measurement Result of WCDMA Band 5

Test Position of Body-Worn 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	0.360	0.171	3.79	21.58	22.00	0.397	2025/5/25	
Back Side	4182/836.4	RMC12.2K	0.459	0.221	-2.25	21.58	22.00	0.506	2025/5/25	

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

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						
Front Side	4182/836.4	RMC12.2K	0.360	0.171	3.79	21.58	22.00	0.397	2025/5/25	
Back Side	4182/836.4	RMC12.2K	0.459	0.221	-2.25	21.58	22.00	0.506	2025/5/25	
Left Side	4182/836.4	RMC12.2K	0.049	0.024	3.87	21.58	22.00	0.054	2025/5/25	
Right Side	4182/836.4	RMC12.2K	0.250	0.123	-2.45	21.58	22.00	0.275	2025/5/25	
Top Side	4182/836.4	RMC12.2K	0.471	0.231	0.06	21.58	22.00	0.519	2025/5/25	5#

NOTE: Hotspot SAR test results of WCDMA Band 5

10.1.6. SAR measurement Result of LTE Band 2

Test Position of Body-Worn 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
			1-g	10-g						
1RB										
Front Side	18900/1880	20M QPSK(1,99)	0.096	0.044	-3.35	24.46	25.00	0.109	2025/5/26	
Back Side	18900/1880	20M QPSK(1,99)	0.064	0.029	0.47	24.46	25.00	0.072	2025/5/26	
50%RB										
Front Side	18900/1880	20M QPSK(50,24)	0.051	0.024	-1.39	23.15	23.00	0.049	2025/5/26	
Back Side	18900/1880	20M QPSK(50,24)	0.035	0.017	-1.33	23.15	23.00	0.034	2025/5/26	

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

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	18900/1880	20M QPSK(1,99)	0.096	0.044	-3.35	24.46	25.00	0.109	2025/5/26	
Back Side	18900/1880	20M QPSK(1,99)	0.064	0.029	0.47	24.46	25.00	0.072	2025/5/26	
Left Side	18900/1880	20M QPSK(1,99)	0.015	0.013	-1.86	24.46	25.00	0.017	2025/5/26	
Right Side	18900/1880	20M QPSK(1,99)	0.065	0.030	1.28	24.46	25.00	0.074	2025/5/26	
Top Side	18900/1880	20M QPSK(1,99)	0.110	0.052	1.01	24.46	25.00	0.125	2025/5/26	11#
50%RB										
Front Side	18900/1880	20M QPSK(50,24)	0.051	0.024	-1.39	23.15	23.00	0.049	2025/5/26	
Back Side	18900/1880	20M QPSK(50,24)	0.035	0.017	-1.33	23.15	23.00	0.034	2025/5/26	
Left Side	18900/1880	20M QPSK(50,24)	0.008	0.007	2.37	23.15	23.00	0.008	2025/5/26	
Right Side	18900/1880	20M QPSK(50,24)	0.036	0.017	1.31	23.15	23.00	0.035	2025/5/26	
Top Side	18900/1880	20M QPSK(50,24)	0.058	0.028	-4.90	23.15	23.00	0.056	2025/5/26	

NOTE: Hotspot SAR test results of LTE Band 2

10.1.7. SAR measurement Result of LTE Band 4

Test Position of Body-Worn 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
			1-g	10-g						
			1RB							
Front	20175/1732.5	20M QPSK(1.99)	0.096	0.043	-3.69	23.62	24.00	0.105	2025/5/22	

Side										
Back Side	20175/1732.5	20M QPSK(1,99)	0.060	0.027	2.12	0.00	0.00	0.060	2025/5/22	
Front Side										
Front Side	20175/1732.5	20M QPSK(50,24)	0.058	0.023	1.78	22.37	22.50	0.060	2025/5/22	
Back Side	20175/1732.5	20M QPSK(50,24)	0.035	0.014	-3.08	0.00	0.00	0.035	2025/5/22	

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

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	20175/1732.5	20M QPSK(1,99)	0.096	0.043	-3.69	23.62	24.00	0.105	2025/5/22	
Back Side	20175/1732.5	20M QPSK(1,99)	0.060	0.027	2.12	0.00	0.00	0.060	2025/5/22	
Left Side	20175/1732.5	20M QPSK(1,99)	0.013	0.011	-0.64	0.00	0.00	0.013	2025/5/22	
Right Side	20175/1732.5	20M QPSK(1,99)	0.060	0.026	-1.78	0.00	0.00	0.060	2025/5/22	
Top Side	20175/1732.5	20M QPSK(1,99)	0.112	0.051	0.68	11.50	12.00	0.126	2025/5/22	12#
50%RB										
Front Side	20175/1732.5	20M QPSK(50,24)	0.058	0.023	1.78	22.37	22.50	0.060	2025/5/22	
Back Side	20175/1732.5	20M QPSK(50,24)	0.035	0.014	-3.08	0.00	0.00	0.035	2025/5/22	
Left Side	20175/1732.5	20M QPSK(50,24)	0.008	0.006	0.82	0.00	0.00	0.008	2025/5/22	
Right Side	20175/1732.5	20M QPSK(50,24)	0.034	0.013	3.30	0.00	0.00	0.034	2025/5/22	
Top Side	20175/1732.5	20M QPSK(50,24)	0.059	0.029	2.91	0.00	0.00	0.059	2025/5/22	

NOTE: Hotspot SAR test results of LTE Band 4

10.1.8. SAR measurement Result of LTE Band 5

Test Position of Body-Worn 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
			1-g	10-g						
1RB										
Front Side	20525/836.5	10M QPSK(1,49)	0.383	0.169	-0.99	23.49	24.00	0.431	2025/5/25	
Back Side	20525/836.5	10M QPSK(1,49)	0.450	0.204	-3.77	23.49	24.00	0.506	2025/5/25	
50%RB										
Front Side	20525/836.5	10M QPSK(25,24)	0.214	0.090	1.35	22.27	22.50	0.226	2025/5/25	
Back Side	20525/836.5	10M QPSK(25,24)	0.243	0.119	-4.59	22.27	22.50	0.256	2025/5/25	

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

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	20525/836.5	10M QPSK(1,49)	0.383	0.169	-0.99	23.49	24.00	0.431	2025/5/25	
Back Side	20525/836.5	10M QPSK(1,49)	0.450	0.204	-3.77	23.49	24.00	0.506	2025/5/25	
Left Side	20525/836.5	10M QPSK(1,49)	0.052	0.023	1.94	23.49	24.00	0.058	2025/5/25	
Right Side	20525/836.5	10M QPSK(1,49)	0.245	0.106	-0.11	23.49	24.00	0.276	2025/5/25	
Top Side	20525/836.5	10M QPSK(1,49)	0.482	0.219	0.01	23.49	24.00	0.542	2025/5/25	13#
50%RB										
Front Side	20525/836.5	10M QPSK(25,24)	0.214	0.090	1.35	22.27	22.50	0.226	2025/5/25	
Back Side	20525/836.5	10M QPSK(25,24)	0.243	0.119	-4.59	22.27	22.50	0.256	2025/5/25	
Left	20525/836.5	10M	0.030	0.013	1.97	22.27	22.50	0.032	2025/5/25	

Side		QPSK(25,24)								
Right Side	20525/836.5	10M QPSK(25,24)	0.147	0.057	-3.03	22.27	22.50	0.155	2025/5/25	
Top Side	20525/836.5	10M QPSK(25,24)	0.259	0.129	-2.20	22.27	22.50	0.273	2025/5/25	

NOTE: Hotspot SAR test results of LTE Band 5

10.1.9. SAR measurement Result of LTE Band 7

Test Position of Body-Worn 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
			1-g	10-g						
1RB										
Front Side	21100/2535	20M QPSK(1,49)	0.456	0.144	2.96	23.76	24.00	0.482	2025/5/20	
Back Side	21100/2535	20M QPSK(1,49)	0.539	0.174	0.83	23.76	24.00	0.570	2025/5/20	
50%RB										
Front Side	21100/2535	20M QPSK(50,24)	0.239	0.073	2.46	22.68	23.00	0.257	2025/5/20	
Back Side	21100/2535	20M QPSK(50,24)	0.297	0.097	-1.93	22.68	23.00	0.320	2025/5/20	

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

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)	0.456	0.144	2.96	23.76	24.00	0.482	2025/5/20	
Back Side	21100/2535	20M QPSK(1,49)	0.539	0.174	0.83	23.76	24.00	0.570	2025/5/20	
Left Side	21100/2535	20M QPSK(1,49)	0.077	0.024	3.66	23.76	24.00	0.081	2025/5/20	
Right Side	21100/2535	20M QPSK(1,49)	0.039	0.013	-3.27	23.76	24.00	0.041	2025/5/20	
Top Side	21100/2535	20M QPSK(1,49)	0.554	0.151	2.82	23.76	24.00	0.585	2025/5/20	14#

50%RB										
Front Side	21100/2535	20M QPSK(50,24)	0.239	0.073	2.46	22.68	23.00	0.257	2025/5/20	
Back Side	21100/2535	20M QPSK(50,24)	0.297	0.097	-1.93	22.68	23.00	0.320	2025/5/20	
Left Side	21100/2535	20M QPSK(50,24)	0.043	0.014	3.72	22.68	23.00	0.046	2025/5/20	
Right Side	21100/2535	20M QPSK(50,24)	0.023	0.007	2.10	22.68	23.00	0.025	2025/5/20	
Top Side	21100/2535	20M QPSK(50,24)	0.407	0.138	-1.67	22.68	23.00	0.438	2025/5/20	

NOTE: Hotspot SAR test results of LTE Band 7

10.1.10. SAR measurement Result of LTE Band 12

Test Position of Body-Worn 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
			1-g	10-g						
1RB										
Front Side	23095/707.5	10M QPSK(1,0)	0.075	0.039	-0.31	23.53	24.00	0.084	2025/5/21	
Back Side	23095/707.5	10M QPSK(1,0)	0.081	0.043	0.37	23.53	24.00	0.090	2025/5/21	
50%RB										
Front Side	23095/707.5	10M QPSK(25,0)	0.045	0.021	4.05	22.43	23.00	0.051	2025/5/21	
Back Side	23095/707.5	10M QPSK(25,0)	0.044	0.026	2.52	22.43	23.00	0.050	2025/5/21	

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

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	23095/707.5	10M QPSK(1,0)	0.075	0.039	-0.31	23.53	24.00	0.084	2025/5/21	
Back	23095/707.5	10M	0.081	0.043	0.37	23.53	24.00	0.090	2025/5/21	

Side		QPSK(1,0)								
Left Side	23095/707.5	10M QPSK(1,0)	0.012	0.010	-0.96	23.53	24.00	0.013	2025/5/21	
Right Side	23095/707.5	10M QPSK(1,0)	0.060	0.032	-2.35	23.53	24.00	0.067	2025/5/21	
Top Side	23095/707.5	10M QPSK(1,0)	0.084	0.046	2.42	23.53	24.00	0.094	2025/5/21	15#
50%RB										
Front Side	23095/707.5	10M QPSK(25,0)	0.045	0.021	4.05	22.43	23.00	0.051	2025/5/21	
Back Side	23095/707.5	10M QPSK(25,0)	0.044	0.026	2.52	22.43	23.00	0.050	2025/5/21	
Left Side	23095/707.5	10M QPSK(25,0)	0.006	0.006	4.25	22.43	23.00	0.007	2025/5/21	
Right Side	23095/707.5	10M QPSK(25,0)	0.031	0.017	1.89	22.43	23.00	0.035	2025/5/21	
Top Side	23095/707.5	10M QPSK(25,0)	0.049	0.024	-3.43	22.43	23.00	0.056	2025/5/21	

NOTE: Hotspot SAR test results of LTE Band 12

10.1.11. SAR measurement Result of LTE Band 13

Test Position of Body-Worn 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
			1-g	10-g						
1RB										
Front Side	23230/782	10M QPSK(1,0)	0.083	0.035	3.94	23.79	24.00	0.087	2025/5/21	
Back Side	23230/782	10M QPSK(1,0)	0.090	0.037	-0.47	23.79	24.00	0.094	2025/5/21	
50%RB										
Front Side	23230/782	10M QPSK(25,0)	0.046	0.021	-2.75	22.71	23.00	0.049	2025/5/21	
Back Side	23230/782	10M QPSK(25,0)	0.047	0.019	-3.86	22.71	23.00	0.050	2025/5/21	

NOTE: Body-Worn SAR test results of LTE Band 13

Test Position of Hotspot with	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						

Omm										
1RB										
Front Side	23230/782	10M QPSK(1,0)	0.083	0.035	3.94	23.79	24.00	0.087	2025/5/21	
Back Side	23230/782	10M QPSK(1,0)	0.090	0.037	-0.47	23.79	24.00	0.094	2025/5/21	
Left Side	23230/782	10M QPSK(1,0)	0.013	0.011	2.44	23.79	24.00	0.014	2025/5/21	
Right Side	23230/782	10M QPSK(1,0)	0.060	0.025	-1.82	23.79	24.00	0.063	2025/5/21	
Top Side	23230/782	10M QPSK(1,0)	0.097	0.042	0.37	23.79	24.00	0.102	2025/5/21	16#
50%RB										
Front Side	23230/782	10M QPSK(25,0)	0.046	0.021	-2.75	22.71	23.00	0.049	2025/5/21	
Back Side	23230/782	10M QPSK(25,0)	0.047	0.019	-3.86	22.71	23.00	0.050	2025/5/21	
Left Side	23230/782	10M QPSK(25,0)	0.007	0.007	0.20	22.71	23.00	0.007	2025/5/21	
Right Side	23230/782	10M QPSK(25,0)	0.034	0.013	-0.38	22.71	23.00	0.036	2025/5/21	
Top Side	23230/782	10M QPSK(25,0)	0.049	0.021	3.66	22.71	23.00	0.052	2025/5/21	

NOTE: Hotspot SAR test results of LTE Band 13

10.1.12. SAR measurement Result of LTE Band 25

Test Position of Body-Worn 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
			1-g	10-g						
1RB										
Front Side	26365/1882.5	20M QPSK(1,99)	0.128	0.061	2.89	23.19	24.00	0.154	2025/5/26	
Back Side	26365/1882.5	20M QPSK(1,99)	0.076	0.036	0.49	23.19	24.00	0.092	2025/5/26	
50%RB										
Front Side	26365/1882.5	20M QPSK(50,0)	0.068	0.034	-3.59	22.09	22.50	0.075	2025/5/26	
Back Side	26365/1882.5	20M QPSK(50,0)	0.040	0.022	2.73	22.09	22.50	0.044	2025/5/26	

NOTE: Body-Worn SAR test results of LTE Band 25

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	26365/1882.5	20M QPSK(1,99)	0.128	0.061	2.89	23.19	24.00	0.154	2025/5/26	
Back Side	26365/1882.5	20M QPSK(1,99)	0.076	0.036	0.49	23.19	24.00	0.092	2025/5/26	
Left Side	26365/1882.5	20M QPSK(1,99)	0.017	0.015	-3.30	23.19	24.00	0.020	2025/5/26	
Right Side	26365/1882.5	20M QPSK(1,99)	0.085	0.042	2.22	23.19	24.00	0.102	2025/5/26	
Top Side	26365/1882.5	20M QPSK(1,99)	0.148	0.074	-0.64	23.19	24.00	0.178	2025/5/26	17#
50%RB										
Front Side	26365/1882.5	20M QPSK(50,0)	0.068	0.034	-3.59	22.09	22.50	0.075	2025/5/26	
Back Side	26365/1882.5	20M QPSK(50,0)	0.040	0.022	2.73	22.09	22.50	0.044	2025/5/26	
Left Side	26365/1882.5	20M QPSK(50,0)	0.009	0.009	-2.43	22.09	22.50	0.010	2025/5/26	

Right Side	26365/1882.5	20M QPSK(50,0)	0.049	0.024	-2.41	22.09	22.50	0.054	2025/5/26	
Top Side	26365/1882.5	20M QPSK(50,0)	0.082	0.038	-1.87	22.09	22.50	0.090	2025/5/26	

NOTE: Hotspot SAR test results of LTE Band 25

10.1.13. SAR measurement Result of LTE Band 26a

Test Position of Body-Worn 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
			1-g	10-g						
1RB										
Front Side	26740/819	10M QPSK(1,0)	0.255	0.126	1.45	23.56	24.00	0.282	2025/5/25	
Back Side	26740/819	10M QPSK(1,0)	0.288	0.136	2.47	23.56	24.00	0.319	2025/5/25	
50%RB										
Front Side	26740/819	10M QPSK(25,0)	0.144	0.074	4.03	21.31	21.50	0.150	2025/5/25	
Back Side	26740/819	10M QPSK(25,0)	0.149	0.073	1.77	21.31	21.50	0.156	2025/5/25	

NOTE: Body-Worn SAR test results of LTE Band 26a

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	26740/819	10M QPSK(1,0)	0.255	0.126	1.45	23.56	24.00	0.282	2025/5/25	
Back Side	26740/819	10M QPSK(1,0)	0.288	0.136	2.47	23.56	24.00	0.319	2025/5/25	
Left Side	26740/819	10M QPSK(1,0)	0.035	0.017	-3.92	23.56	24.00	0.039	2025/5/25	
Right Side	26740/819	10M QPSK(1,0)	0.160	0.078	-2.00	23.56	24.00	0.177	2025/5/25	
Top Side	26740/819	10M QPSK(1,0)	0.304	0.150	-2.52	23.56	24.00	0.336	2025/5/25	18#
50%RB										
Front Side	26740/819	10M QPSK(25,0)	0.144	0.074	4.03	21.31	21.50	0.150	2025/5/25	

Back Side	26740/819	10M QPSK(25,0)	0.149	0.073	1.77	21.31	21.50	0.156	2025/5/25	
Left Side	26740/819	10M QPSK(25,0)	0.019	0.009	-4.73	21.31	21.50	0.020	2025/5/25	
Right Side	26740/819	10M QPSK(25,0)	0.092	0.046	-1.27	21.31	21.50	0.096	2025/5/25	
Top Side	26740/819	10M QPSK(25,0)	0.152	0.084	-4.49	21.31	21.50	0.159	2025/5/25	

NOTE: Hotspot SAR test results of LTE Band 26a

10.1.14. SAR measurement Result of LTE Band 26b

Test Position of Body-Worn with 0mm	Test channel /Freq.	Test Mode	SAR Value		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			(W/kg)							
			1-g	10-g						
1RB										
Front Side	26865/831.5	15M QPSK(1,0)	0.330	0.160	1.15	23.39	23.50	0.338	2025/5/25	
Back Side	26865/831.5	15M QPSK(1,0)	0.387	0.186	0.12	23.39	23.50	0.397	2025/5/25	
50%RB										
Front Side	26865/831.5	15M QPSK(36,37)	0.173	0.095	-3.68	21.27	21.50	0.182	2025/5/25	
Back Side	26865/831.5	15M QPSK(36,37)	0.208	0.107	-4.99	21.27	21.50	0.219	2025/5/25	

NOTE: Body-Worn SAR test results of LTE Band 26b

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	26865/831.5	15M QPSK(1,0)	0.330	0.160	1.15	23.39	23.50	0.338	2025/5/25	
Back Side	26865/831.5	15M QPSK(1,0)	0.387	0.186	0.12	23.39	23.50	0.397	2025/5/25	
Left Side	26865/831.5	15M QPSK(1,0)	0.043	0.021	-2.31	23.39	23.50	0.044	2025/5/25	
Right Side	26865/831.5	15M QPSK(1,0)	0.205	0.095	-1.20	23.39	23.50	0.210	2025/5/25	

Top Side	26865/831.5	15M QPSK(1,0)	0.393	0.191	-0.20	23.39	23.50	0.403	2025/5/25	19#
50%RB										
Front Side	26865/831.5	15M QPSK(36,37)	0.173	0.095	-3.68	21.27	21.50	0.182	2025/5/25	
Back Side	26865/831.5	15M QPSK(36,37)	0.208	0.107	-4.99	21.27	21.50	0.219	2025/5/25	
Left Side	26865/831.5	15M QPSK(36,37)	0.023	0.011	-1.89	21.27	21.50	0.024	2025/5/25	
Right Side	26865/831.5	15M QPSK(36,37)	0.107	0.048	-0.79	21.27	21.50	0.113	2025/5/25	
Top Side	26865/831.5	15M QPSK(36,37)	0.230	0.103	1.25	21.27	21.50	0.243	2025/5/25	

NOTE: Hotspot SAR test results of LTE Band 26b

10.1.15. SAR measurement Result of LTE Band 41

Test Position of Body-Worn 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
			1-g	10-g						
1RB										
Front Side	40620/2593	20M QPSK(1,0)	0.486	0.157	3.72	24.09	25.00	0.599	2025/5/20	
Back Side	40620/2593	20M QPSK(1,0)	0.546	0.173	2.72	24.09	25.00	0.673	2025/5/20	
50%RB										
Front Side	40620/2593	20M QPSK(50,24)	0.287	0.092	4.73	23.51	24.50	0.360	2025/5/20	
Back Side	40620/2593	20M QPSK(50,24)	0.306	0.101	-0.46	23.51	24.50	0.384	2025/5/20	

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

Test Position of Hotspot with 0mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
			1RB							
Front	40620/2593	20M	0.486	0.157	3.72	24.09	25.00	0.599	2025/5/20	

Side		QPSK(1,0)								
Back Side	40620/2593	20M QPSK(1,0)	0.546	0.173	2.72	24.09	25.00	0.673	2025/5/20	
Left Side	40620/2593	20M QPSK(1,0)	0.077	0.025	1.49	24.09	25.00	0.095	2025/5/20	
Right Side	40620/2593	20M QPSK(1,0)	0.039	0.013	2.73	24.09	25.00	0.048	2025/5/20	
Top Side	40620/2593	20M QPSK(1,0)	0.563	0.249	-1.64	24.09	25.00	0.694	0.563	21#
50%RB										
Front Side	40620/2593	20M QPSK(50,24)	0.287	0.092	4.73	23.51	24.50	0.360	2025/5/20	
Back Side	40620/2593	20M QPSK(50,24)	0.306	0.101	-0.46	23.51	24.50	0.384	2025/5/20	
Left Side	40620/2593	20M QPSK(50,24)	0.040	0.014	-4.20	23.51	24.50	0.050	2025/5/20	
Right Side	40620/2593	20M QPSK(50,24)	0.021	0.007	-0.61	23.51	24.50	0.026	2025/5/20	
Top Side	40620/2593	20M QPSK(50,24)	0.382	0.139	1.43	23.51	24.50	0.480	2025/5/20	

NOTE: Hotspot SAR test results of LTE Band 41

10.1.16. SAR measurement Result of LTE Band 66

Test Position of Body-Worn 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
			1-g	10-g						
1RB										
Front Side	132322/1745	20M QPSK(1,99)	0.136	0.062	0.89	23.90	24.50	0.156	2025/5/22	
Back Side	132322/1745	20M QPSK(1,99)	0.076	0.034	0.79	23.90	24.50	0.087	2025/5/22	
50%RB										
Front Side	132322/1745	20M QPSK(50,24)	0.077	0.034	-0.33	23.75	24.00	0.082	2025/5/22	
Back Side	132322/1745	20M QPSK(50,24)	0.042	0.020	-4.57	23.75	24.00	0.044	2025/5/22	

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

Test Position	Test channel /Freq.	Mode	SAR Value (W/kg)	Power Drift(%)	Conducted Power	Tune-up Power	Scaled SAR	Date	Plot
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of Hotspot with 0mm			1-g	10-g		(dBm)	(dBm)	1-g (W/Kg)		
1RB										
Front Side	132322/1745	20M QPSK(1,99)	0.136	0.062	0.89	23.90	24.50	0.156	2025/5/22	
Back Side	132322/1745	20M QPSK(1,99)	0.076	0.034	0.79	23.90	24.50	0.087	2025/5/22	
Left Side	132322/1745	20M QPSK(1,99)	0.016	0.014	-1.99	23.90	24.50	0.018	2025/5/22	
Right Side	132322/1745	20M QPSK(1,99)	0.090	0.040	-3.88	23.90	24.50	0.103	2025/5/22	
Top Side	132322/1745	20M QPSK(1,99)	0.143	0.066	3.88	23.90	24.50	0.164	2025/5/22	22#
50%RB										
Front Side	132322/1745	20M QPSK(50,24)	0.077	0.034	-0.33	23.75	24.00	0.082	2025/5/22	
Back Side	132322/1745	20M QPSK(50,24)	0.042	0.020	-4.57	23.75	24.00	0.044	2025/5/22	
Left Side	132322/1745	20M QPSK(50,24)	0.009	0.008	-3.73	23.75	24.00	0.010	2025/5/22	
Right Side	132322/1745	20M QPSK(50,24)	0.048	0.023	4.48	23.75	24.00	0.051	2025/5/22	
Top Side	132322/1745	20M QPSK(50,24)	0.082	0.036	-4.50	23.75	24.00	0.087	2025/5/22	

NOTE: Hotspot SAR test results of LTE Band 66

10.1.17. SAR measurement Result of WLAN 2.4G

Test Position of Body-Worn 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
			1-g	10-g						
Front Side	6/2437	802.11b	0.339	0.137	-3.06	12.20	12.50	0.363	2025/5/16	
Back Side	6/2437	802.11b	0.315	0.125	-3.98	12.20	12.50	0.338	2025/5/16	

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

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						
Front Side	6/2437	802.11b	0.339	0.137	-3.06	12.20	12.50	0.363	2025/5/16	
Back Side	6/2437	802.11b	0.315	0.125	-3.98	12.20	12.50	0.338	2025/5/16	
Left Side	6/2437	802.11b	0.144	0.058	0.54	12.20	12.50	0.154	2025/5/16	
Right Side	6/2437	802.11b	0.068	0.027	3.65	12.20	12.50	0.073	2025/5/16	
Top Side	6/2437	802.11b	0.280	0.110	2.66	12.20	12.50	0.300	2025/5/16	10#

NOTE: Hotspot SAR test results of WLAN 2.4G

10.1.18. SAR measurement Result of WLAN 5.2G

Test Position of Body-Worn with 0mm	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	46/5230	802.11n HT40	0.333	0.098	2.80	5.78	6.00	0.350	2025/5/18	
Back Side	46/5230	802.11n HT40	0.306	0.093	2.92	5.78	6.00	0.322	2025/5/18	

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

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						
Front	46/5230	802.11n HT40	0.333	0.098	2.80	5.78	6.00	0.350	2025/5/18	

Side										
Back Side	46/5230	802.11n HT40	0.306	0.093	2.92	5.78	6.00	0.322	2025/5/18	
Left Side	46/5230	802.11a	0.076	0.023	2.60	5.78	6.00	0.080	2025/5/18	
Right Side	46/5230	802.11n HT40	0.120	0.036	1.03	5.78	6.00	0.126	2025/5/18	

NOTE: Hotspot SAR test results of WLAN 5.2G

10.1.19. SAR measurement Result of WLAN 5.3G

Test Position of Body-Worn with 0mm	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	54/5270	802.11n HT40	0.369	0.087	0.52	8.50	9.00	0.414	2025/5/23	
Back Side	54/5270	802.11n HT40	0.357	0.067	-3.79	8.50	9.00	0.401	2025/5/23	

NOTE: Body-Worn SAR test results of WLAN 5.3G

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						
Front Side	54/5270	802.11n HT40	0.369	0.087	0.52	8.50	9.00	0.414	2025/5/23	
Back Side	54/5270	802.11n HT40	0.357	0.067	-3.79	8.50	9.00	0.401	2025/5/23	
Left Side	54/5270	802.11a	0.084	0.020	1.60	8.50	9.00	0.094	2025/5/23	
Right Side	54/5270	802.11n HT40	0.132	0.031	-1.28	8.50	9.00	0.148	2025/5/23	
Top Side	54/5270	802.11n HT40	0.409	0.101	4.91	8.50	9.00	0.459	2025/5/23	7#

NOTE: Hotspot SAR test results of WLAN 5.3G

10.1.20. SAR measurement Result of WLAN 5.6G

Test Position of Body-Worn with 0mm	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	118/5590	802.11n	0.357	0.082	-2.64	8.52	9.00	0.399	2025/5/24	

Back Side	118/5590	802.11n	0.349	0.078	-1.21	8.52	9.00	0.390	2025/5/24	
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NOTE: Body-Worn SAR test results of WLAN 5.6G

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						
Front Side	118/5590	802.11n	0.357	0.082	-2.64	8.52	9.00	0.399	2025/5/24	
Back Side	118/5590	802.11n	0.349	0.078	-1.21	8.52	9.00	0.390	2025/5/24	
Left Side	118/5590	802.11n	0.084	0.019	1.92	8.52	9.00	0.094	2025/5/24	
Right Side	118/5590	802.11n	0.126	0.029	1.07	8.52	9.00	0.141	2025/5/24	
Top Side	118/5590	802.11n	0.384	0.088	-4.31	8.52	9.00	0.429	2025/5/24	8#

NOTE: Hotspot SAR test results of WLAN 5.6G

10.1.21. SAR measurement Result of WLAN 5.8G

Test Position of Body-Worn with 0mm	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	151/5755	802.11n HT40	0.216	0.045	0.52	8.50	9.00	0.242	2025/5/15	
Back Side	151/5755	802.11n HT40	0.204	0.040	-3.81	8.50	9.00	0.229	2025/5/15	

NOTE: Body-Worn SAR test results of WLAN 5.8G

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						
Front Side	151/5755	802.11n HT40	0.216	0.045	0.52	8.50	9.00	0.242	2025/5/15	
Back Side	151/5755	802.11n HT40	0.204	0.040	-3.81	8.50	9.00	0.229	2025/5/15	
Left Side	151/5755	802.11n HT40	0.052	0.010	-2.11	8.50	9.00	0.058	2025/5/15	

Right Side	151/5755		0.075	0.015	-0.08	8.50	9.00	0.084	2025/5/15	
Top Side	151/5755	802.11n HT40	0.228	0.046	-3.46	8.50	9.00	0.256	2025/5/15	9#

NOTE: Hotspot SAR test results of WLAN 5.8G

10.2. SAR Summation Scenario

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

- Scalar SAR summation $< 1.6\text{W/kg}$.
- $\text{SPLSR} = (\text{SAR}_1 + \text{SAR}_2)^{1.5} / (\text{min. separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x_1 - x_2)^2 + (y_1 - y_2)^2 + (z_1 - z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates of the extrapolated peak SAR locations in the zoom scan. If $\text{SPLSR} \leq 0.04$, simultaneously transmission SAR measurement is not necessary.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	DTS			
Hotspot	Front Side	0.599	0.363	0.962	N/A	N/A
	Back Side	0.673	0.338	1.011	N/A	N/A
Body	Front Side	0.599	0.363	0.962	N/A	N/A
	Back Side	0.673	0.338	1.011	N/A	N/A
	Left Side	0.095	0.154	0.249	N/A	N/A
	Right Side	0.28	0.073	0.353	N/A	N/A
	Top Side	0.941	0.300	1.241	N/A	N/A
	Bottom Side	N/A	N/A	N/A	N/A	N/A

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	NII			
Hotspot	Front Side	0.599	0.414	1.013	N/A	N/A
	Back Side	0.673	0.401	1.074	N/A	N/A
Body	Front Side	0.599	0.414	1.013	N/A	N/A
	Back Side	0.673	0.401	1.074	N/A	N/A
	Left Side	0.095	0.094	0.189	N/A	N/A
	Right Side	0.28	0.148	0.428	N/A	N/A
	Top Side	0.941	0.459	1.400	N/A	N/A
	Bottom Side	N/A	N/A	N/A	N/A	N/A

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	DSS			
Hotspot	Front Side	0.599	0.265	0.864	N/A	N/A

	Back Side	0.673	0.265	0.938	N/A	N/A
Body	Front Side	0.599	0.265	0.864	N/A	N/A
	Back Side	0.673	0.265	0.938	N/A	N/A
	Left Side	0.095	0.265	0.360	N/A	N/A
	Right Side	0.28	0.265	0.545	N/A	N/A
	Top Side	0.941	0.265	1.206	N/A	N/A
	Bottom Side	N/A	N/A	N/A	N/A	N/A

11. Appendix A. Photo documentation

Refer to appendix Test Setup photo---SAR

12. Appendix B. System Check Plots

Table of contents
MEASUREMENT 1 System Performance Check - 750MHz
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MEASUREMENT 6 System Performance Check - 2600MHz
MEASUREMENT 7 System Performance Check - 5200MHz
MEASUREMENT 8 System Performance Check - 5400MHz
MEASUREMENT 9 System Performance Check - 5600MHz
MEASUREMENT 10 System Performance Check - 5800MHz

1# System check at 750 MHz
Date of measurement: 21/5/2025

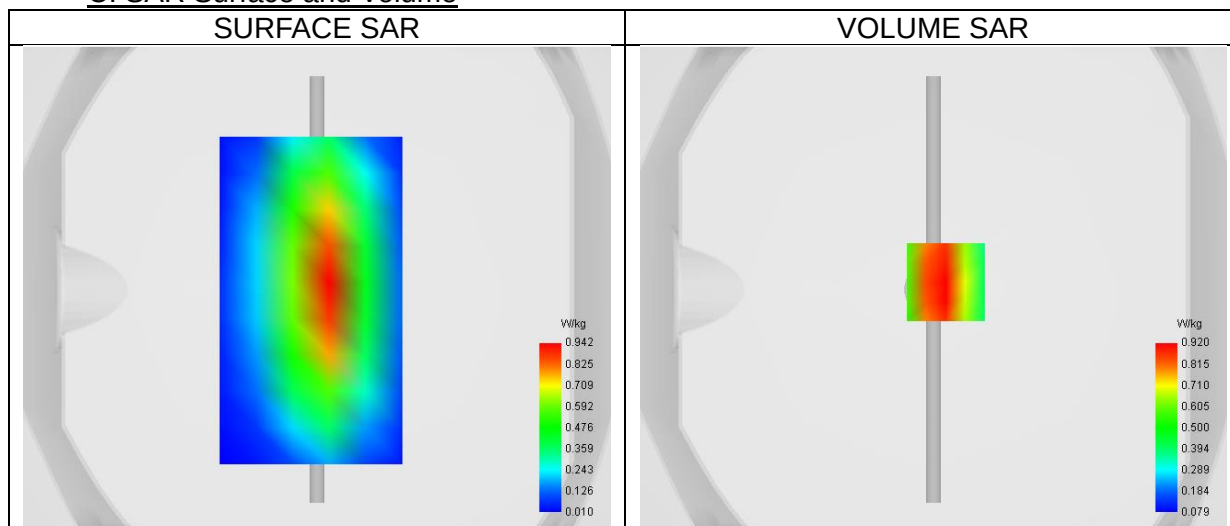
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.39
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW750
Signal	CW
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	750.00
Relative permittivity (real part)	40.79
Relative permittivity (imaginary part)	21.26
Conductivity (S/m)	0.89

C. SAR Surface and Volume



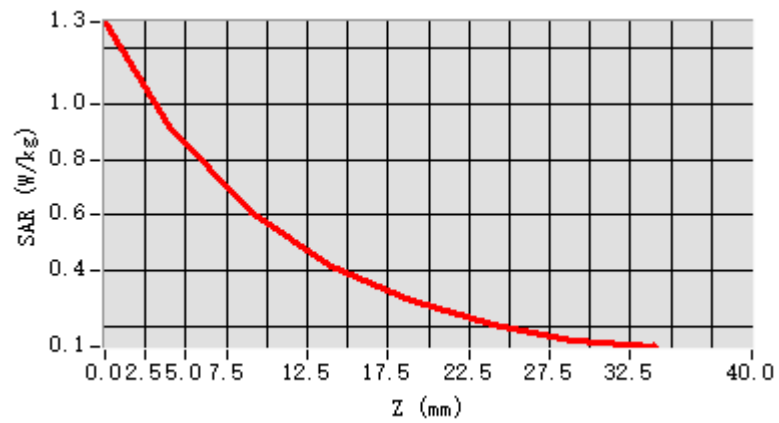
Maximum location: X=5.00, Y=3.00 ; SAR Peak: 1.35 W/kg

D. SAR 1g & 10g

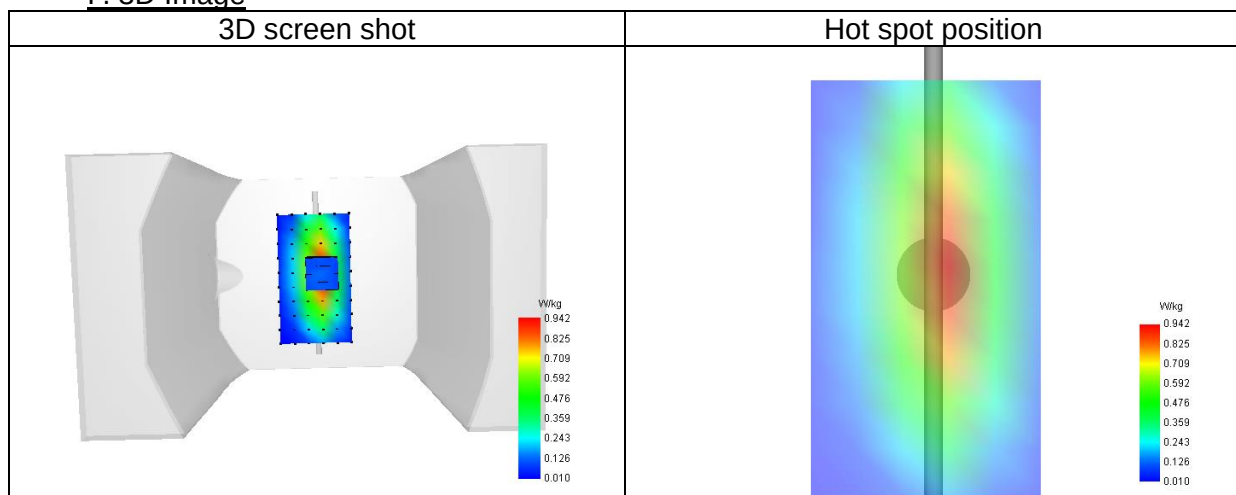
SAR 10g (W/Kg)	0.560
SAR 1g (W/Kg)	0.901
Variation (%)	-0.13
Horizontal validation criteria: minimum distance (mm)	16.00
Vertical validation criteria: SAR ratio M2/M1 (%)	66.56

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.293	0.920	0.612	0.419	0.293	0.208	0.149



F. 3D Image



2# System check at 835 MHz
Date of measurement: 25/5/2025

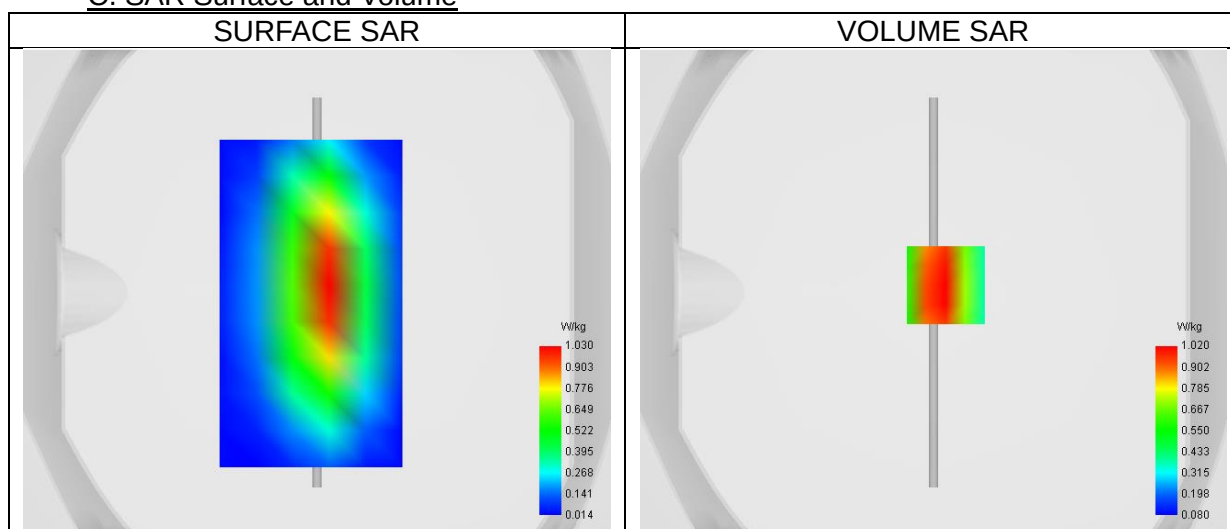
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.32
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW835
Signal	CW
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	835.00
Relative permittivity (real part)	42.10
Relative permittivity (imaginary part)	19.80
Conductivity (S/m)	0.92

C. SAR Surface and Volume



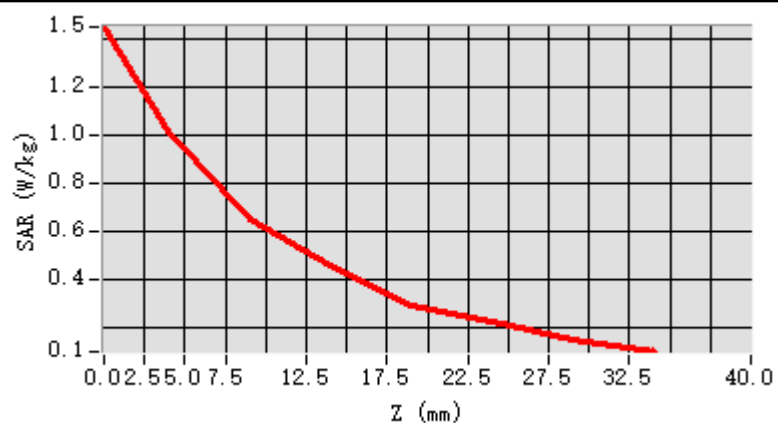
Maximum location: X=5.00, Y=3.00 ; SAR Peak: 1.52 W/kg

D. SAR 1g & 10g

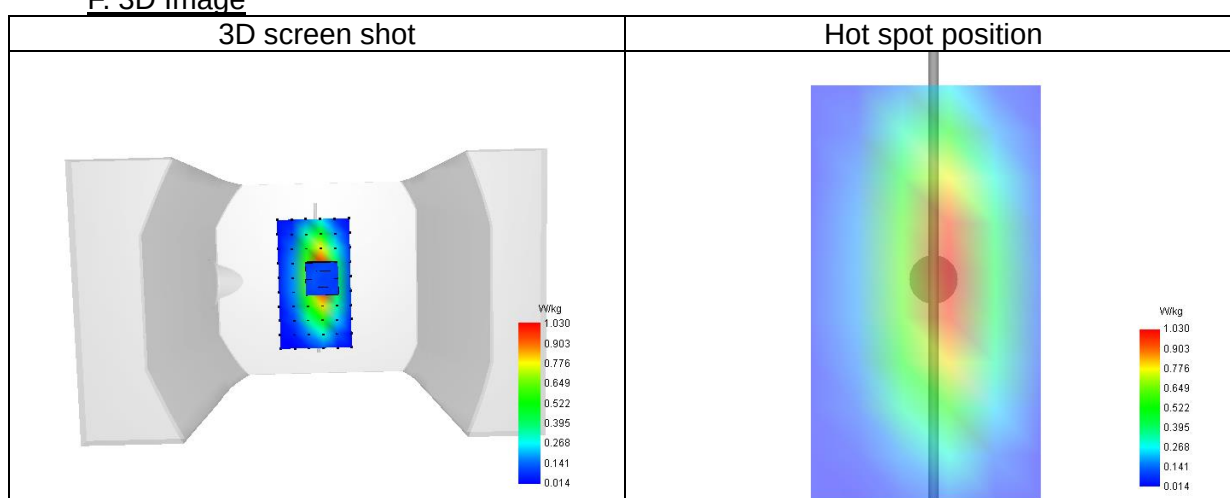
SAR 10g (W/Kg)	0.602
SAR 1g (W/Kg)	0.994
Variation (%)	-0.76
Horizontal validation criteria: minimum distance (mm)	16.00
Vertical validation criteria: SAR ratio M2/M1 (%)	63.93

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.453	1.020	0.652	0.455	0.293	0.219	0.147



F. 3D Image



3# System check at 1800 MHz
Date of measurement: 22/5/2025

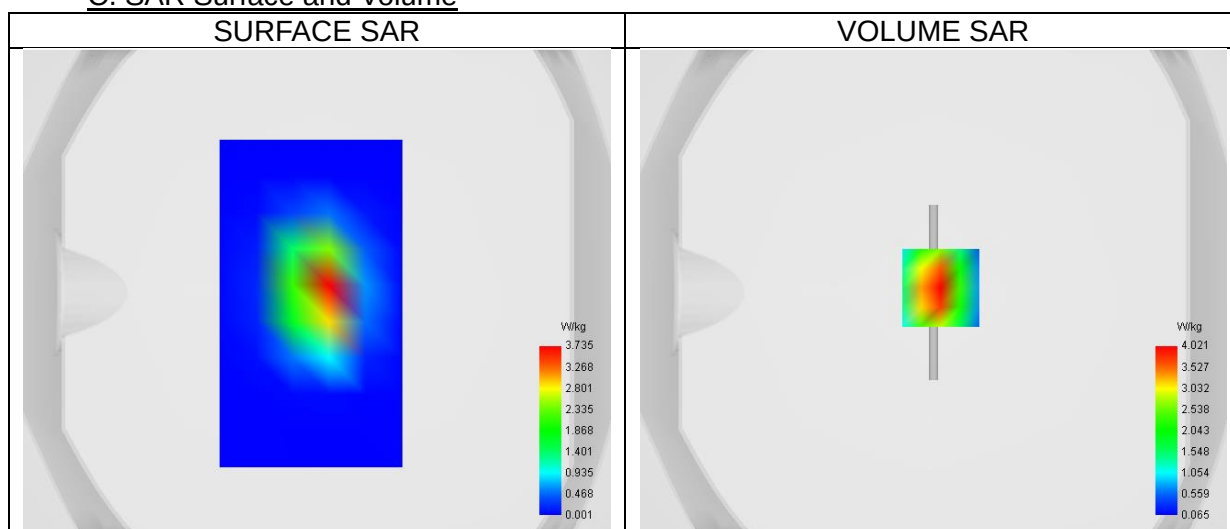
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.50
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW1800
Signal	CW
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	1800.00
Relative permittivity (real part)	38.83
Relative permittivity (imaginary part)	13.79
Conductivity (S/m)	1.38

C. SAR Surface and Volume



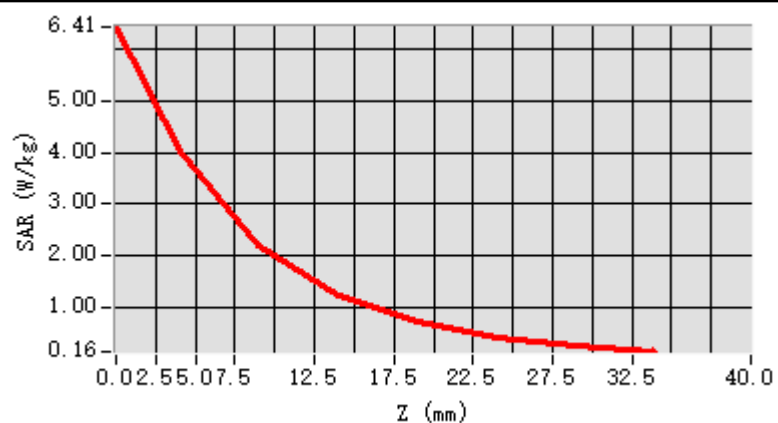
Maximum location: X=3.00, Y=2.00 ; SAR Peak: 6.50 W/kg

D. SAR 1g & 10g

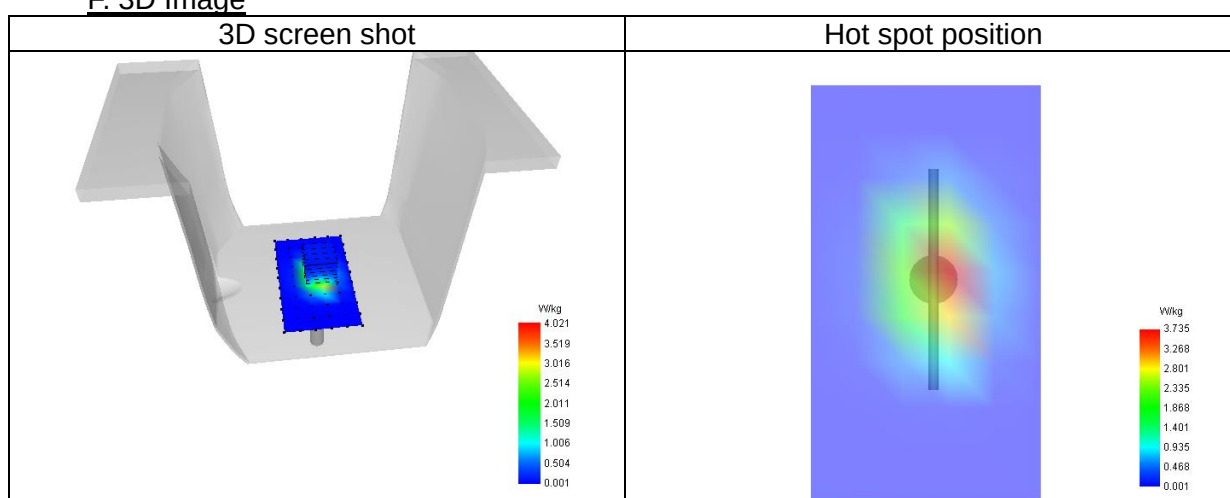
SAR 10g (W/Kg)	1.928
SAR 1g (W/Kg)	3.819
Variation (%)	-0.10
Horizontal validation criteria: minimum distance (mm)	16.00
Vertical validation criteria: SAR ratio M2/M1 (%)	54.61

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.413	4.021	2.196	1.259	0.737	0.438	0.265



F. 3D Image



4# System check at 1900 MHz
Date of measurement: 26/5/2025

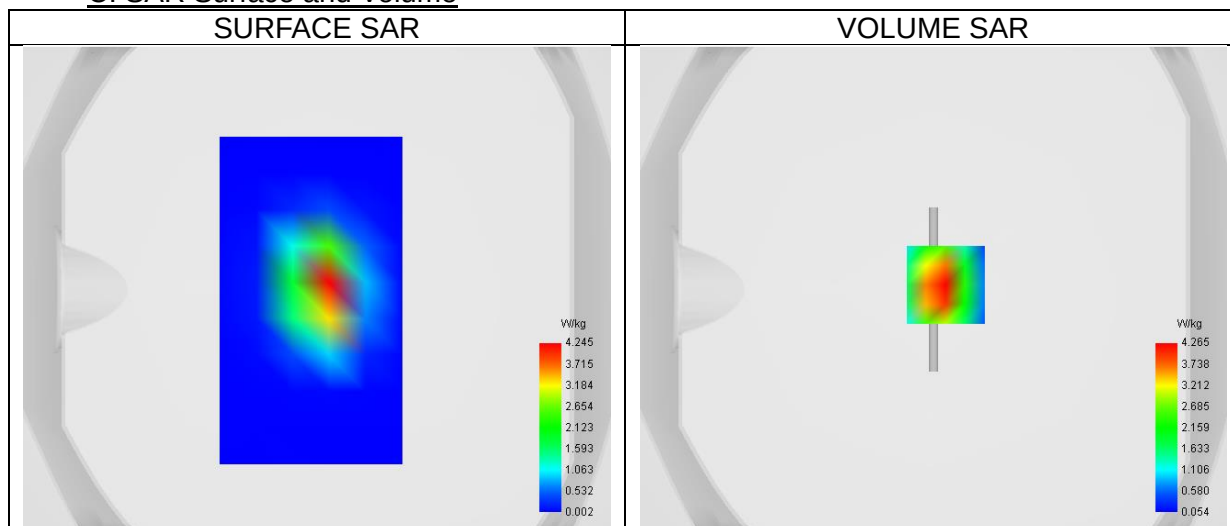
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.58
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW1900
Signal	CW
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	1900.00
Relative permittivity (real part)	38.28
Relative permittivity (imaginary part)	13.60
Conductivity (S/m)	1.44

C. SAR Surface and Volume



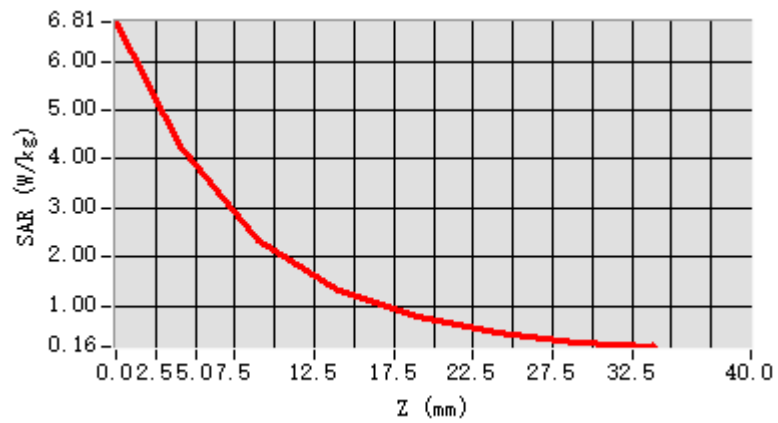
Maximum location: X=5.00, Y=2.00 ; SAR Peak: 7.00 W/kg

D. SAR 1g & 10g

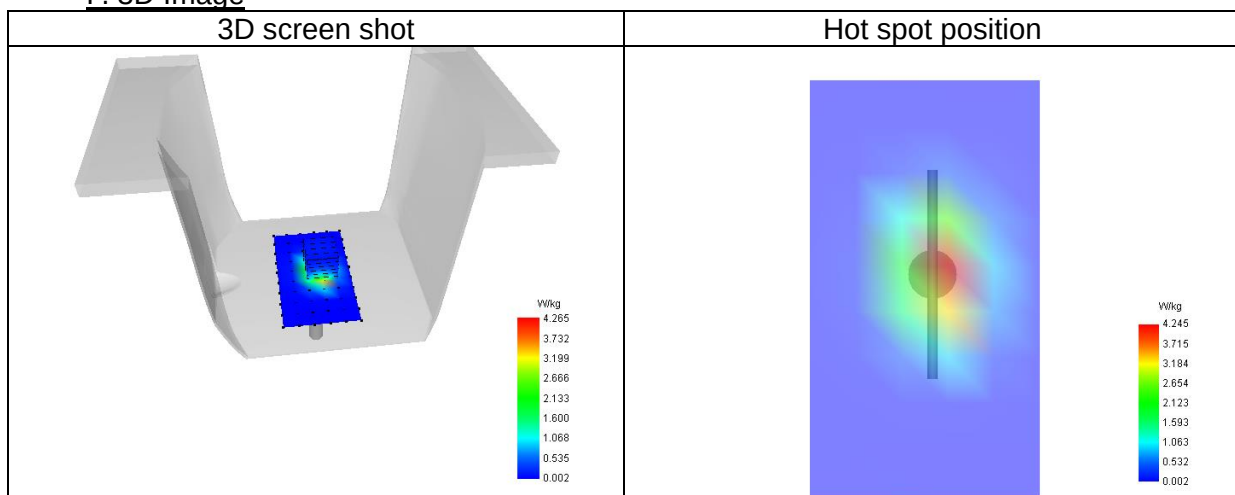
SAR 10g (W/Kg)	2.069
SAR 1g (W/Kg)	4.204
Variation (%)	-0.10
Horizontal validation criteria: minimum distance (mm)	11.31
Vertical validation criteria: SAR ratio M2/M1 (%)	54.41

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.806	4.265	2.320	1.316	0.756	0.445	0.260



F. 3D Image



5# System check at 2450 MHz
Date of measurement: 16/5/2025

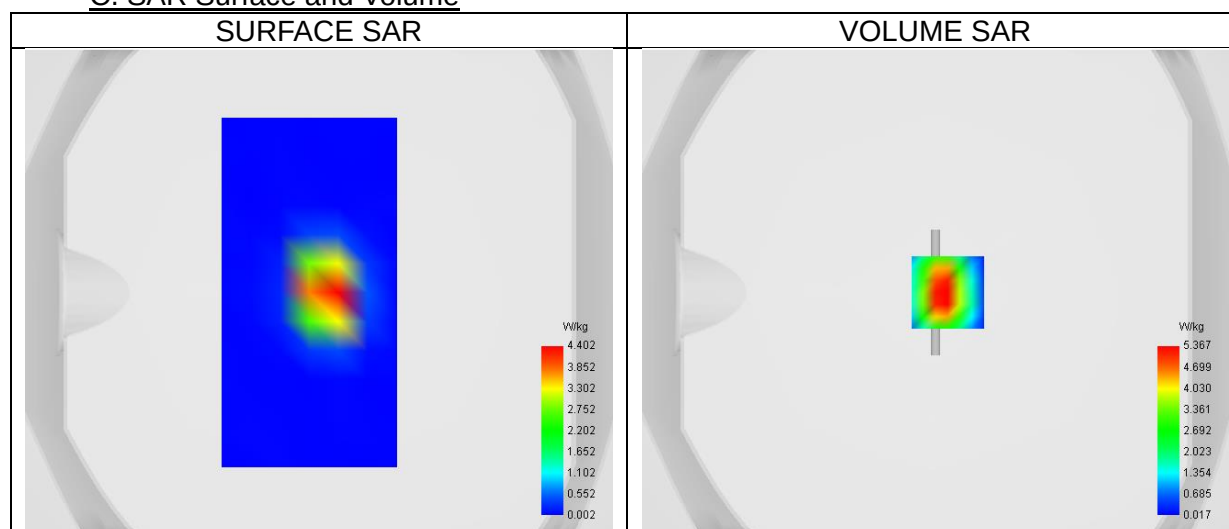
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.63
Area Scan	dx=12mm dy=12mm, Complete
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW2450
Signal	CW
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	2450.00
Relative permittivity (real part)	38.13
Relative permittivity (imaginary part)	13.21
Conductivity (S/m)	1.80

C. SAR Surface and Volume



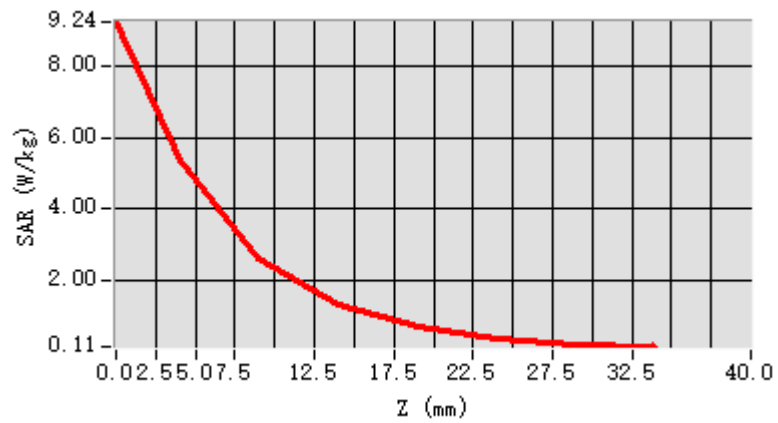
Maximum location: X=5.00, Y=0.00 ; SAR Peak: 9.57 W/kg

D. SAR 1g & 10g

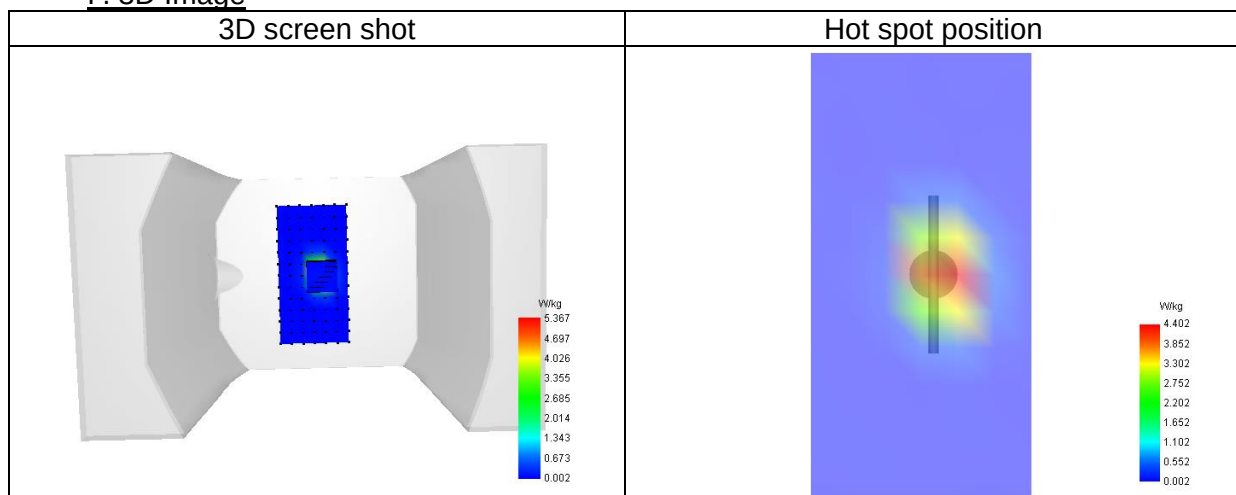
SAR 10g (W/Kg)	2.199
SAR 1g (W/Kg)	5.111
Variation (%)	-2.07
Horizontal validation criteria: minimum distance (mm)	10.00
Vertical validation criteria: SAR ratio M2/M1 (%)	48.05

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	9.244	5.367	2.579	1.298	0.686	0.359	0.194



F. 3D Image



6# System check at 2600 MHz
Date of measurement: 20/5/2025

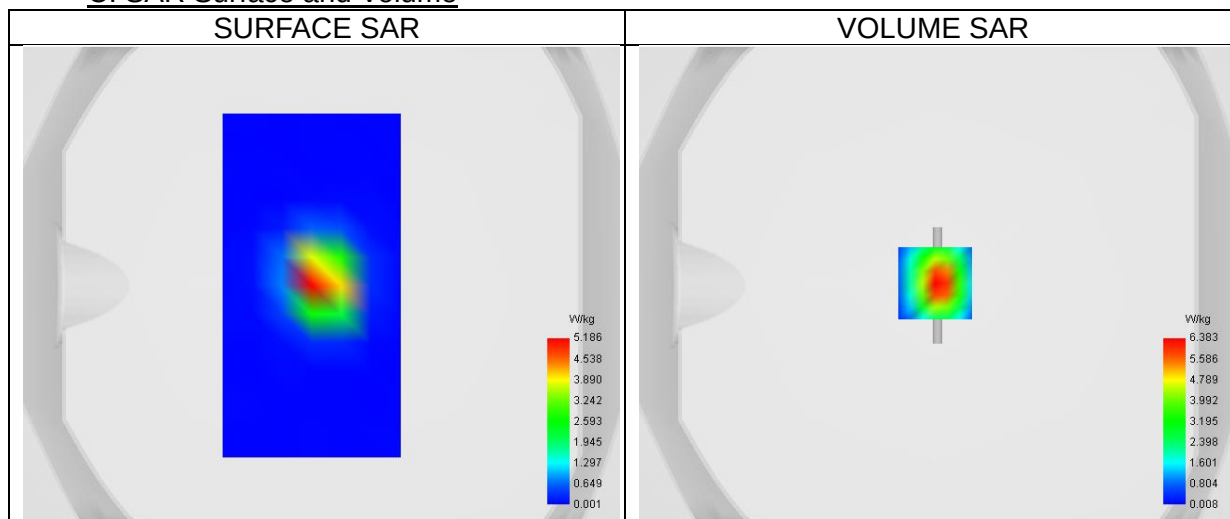
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.52
Area Scan	dx=12mm dy=12mm, Complete
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW2600
Signal	CW
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	2600.00
Relative permittivity (real part)	39.18
Relative permittivity (imaginary part)	13.30
Conductivity (S/m)	1.92

C. SAR Surface and Volume



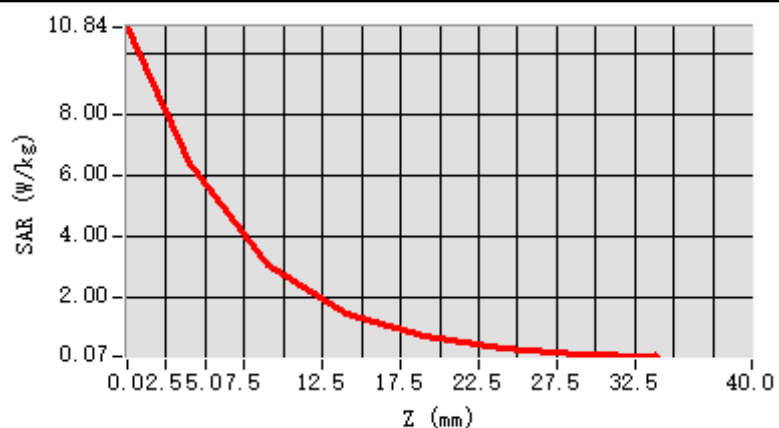
Maximum location: X=-1.00, Y=1.00 ; SAR Peak: 10.97 W/kg

D. SAR 1g & 10g

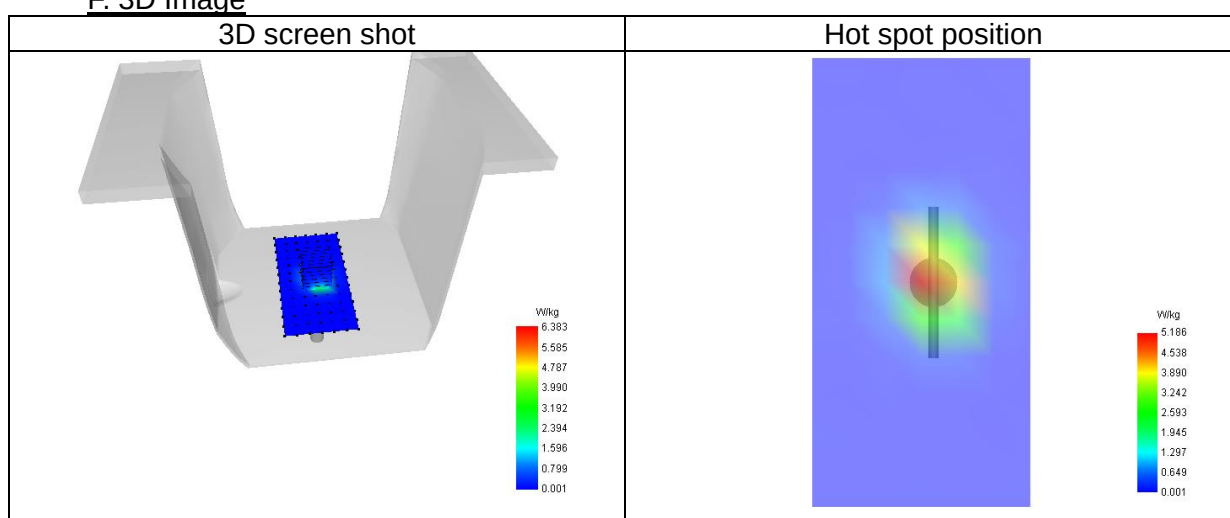
SAR 10g (W/Kg)	2.439
SAR 1g (W/Kg)	5.783
Variation (%)	0.06
Horizontal validation criteria: minimum distance (mm)	10.00
Vertical validation criteria: SAR ratio M2/M1 (%)	48.46

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	10.842	6.383	3.093	1.458	0.706	0.362	0.159



F. 3D Image



7# System check at 5200 MHz
Date of measurement: 18/5/2025

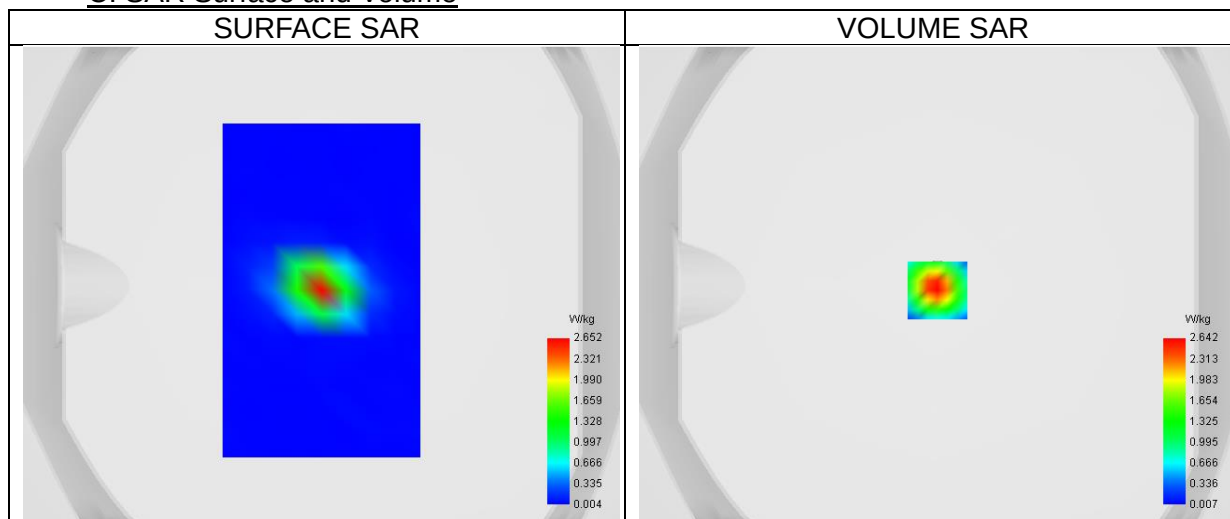
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.37
Area Scan	dx=10mm dy=10mm, Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2.0mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW5200
Signal	CW
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	5200.00
Relative permittivity (real part)	37.26
Relative permittivity (imaginary part)	15.72
Conductivity (S/m)	4.54

C. SAR Surface and Volume



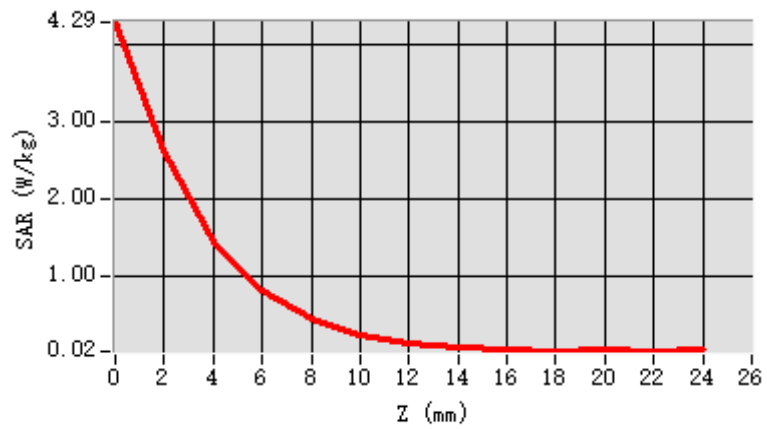
Maximum location: X=0.00, Y=-2.00 ; SAR Peak: 4.56 W/kg

D. SAR 1g & 10g

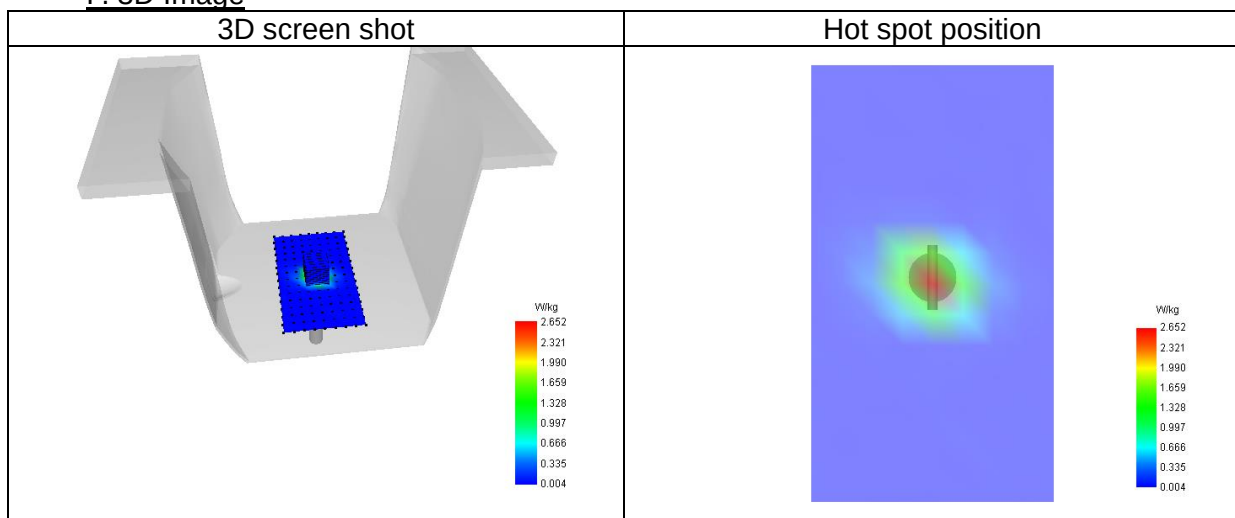
SAR 10g (W/Kg)	0.522
SAR 1g (W/Kg)	1.540
Variation (%)	-0.19
Horizontal validation criteria: minimum distance (mm)	11.31
Vertical validation criteria: SAR ratio M2/M1 (%)	54.50

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
						0	0	0	0	0	0	0
SAR (W/Kg)	4.29	2.64	1.44	0.81	0.44	0.23	0.13	0.09	0.04	0.03	0.04	0.02
	0	2	0	3	8	6	1	0	0	2	2	4



F. 3D Image



8# System check at 5400 MHz
Date of measurement: 23/5/2025

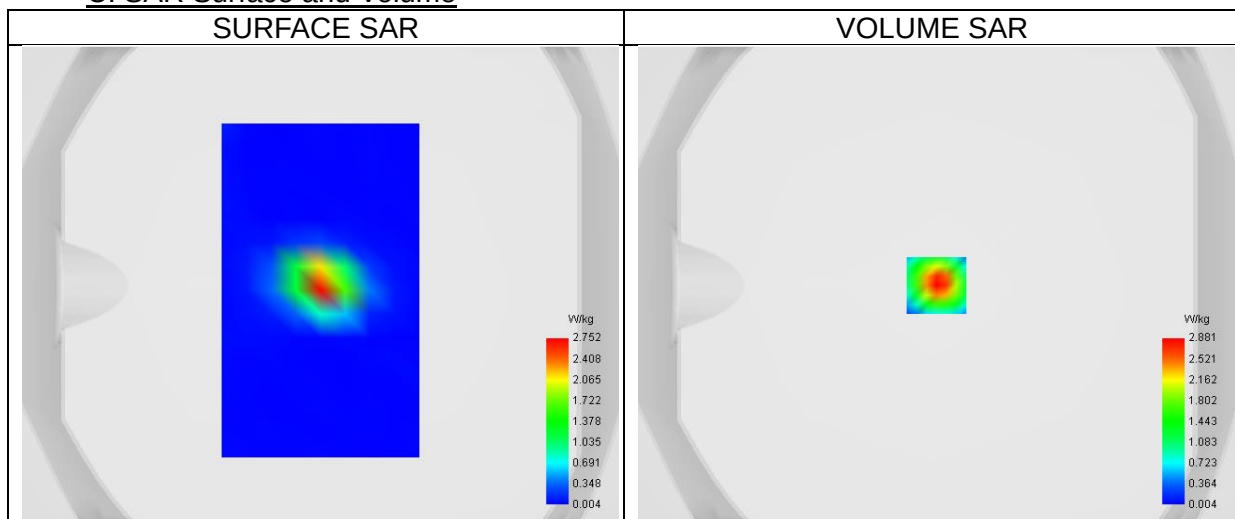
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.37
Area Scan	dx=10mm dy=10mm, Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2.0mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW5400
Signal	CW
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	5400.00
Relative permittivity (real part)	35.49
Relative permittivity (imaginary part)	16.71
Conductivity (S/m)	5.01

C. SAR Surface and Volume



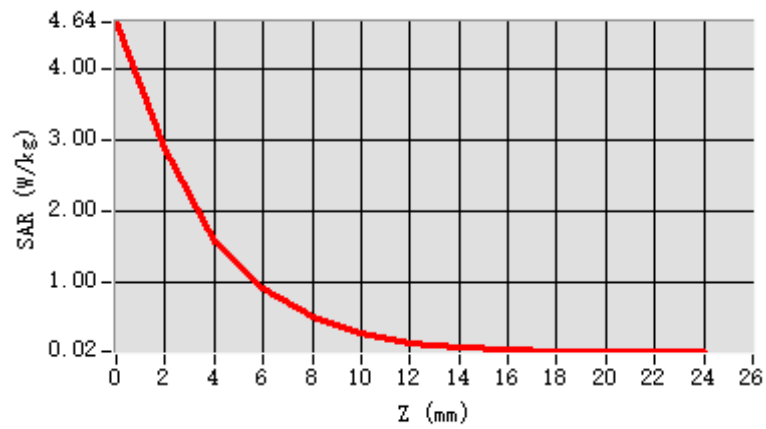
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 5.01 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.565
SAR 1g (W/Kg)	1.680
Variation (%)	-2.78
Horizontal validation criteria: minimum distance (mm)	8.94
Vertical validation criteria: SAR ratio M2/M1 (%)	54.10

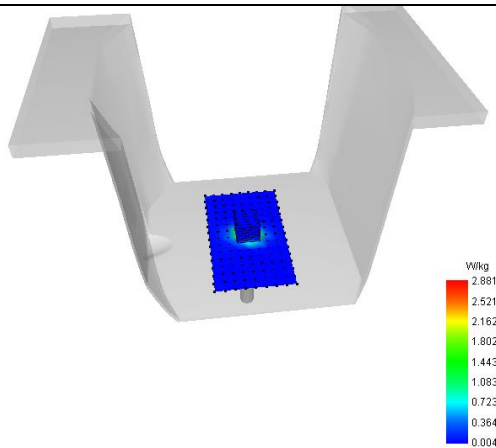
E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
						0	0	0	0	0	0	0
SAR (W/Kg)	4.64	2.88	1.55	0.90	0.49	0.27	0.14	0.06	0.03	0.02	0.01	0.02
	3	1	9	0	3	3	3	5	5	3	7	7

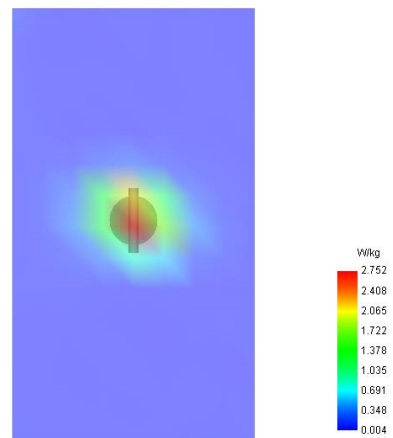


F. 3D Image

3D screen shot



Hot spot position



9# System check at 5600 MHz
Date of measurement: 24/5/2025

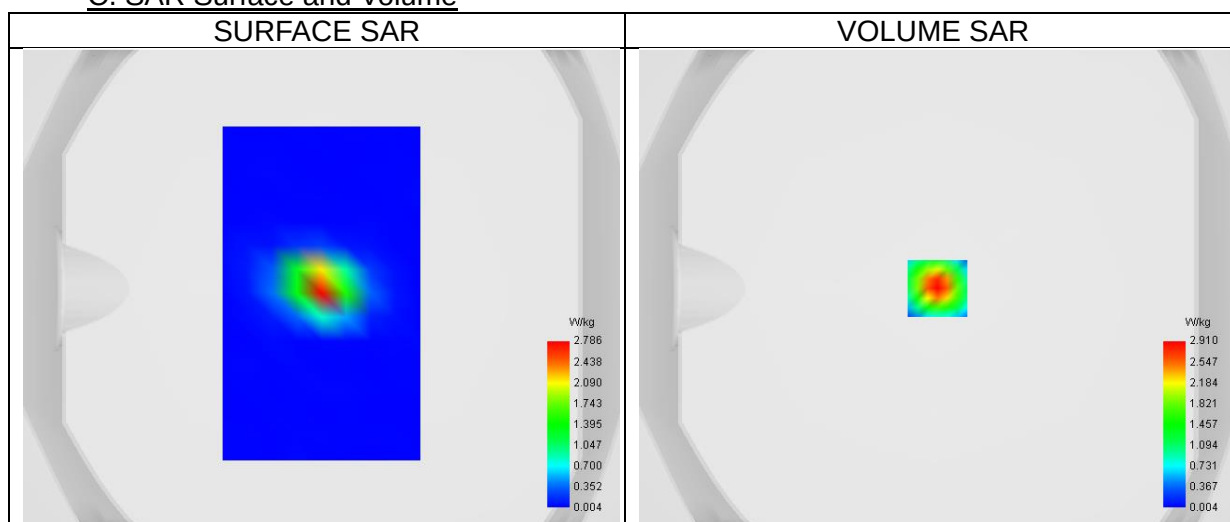
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.36
Area Scan	dx=10mm dy=10mm, Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2.0mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW5600
Signal	CW
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	5600.00
Relative permittivity (real part)	35.92
Relative permittivity (imaginary part)	16.31
Conductivity (S/m)	5.08

C. SAR Surface and Volume



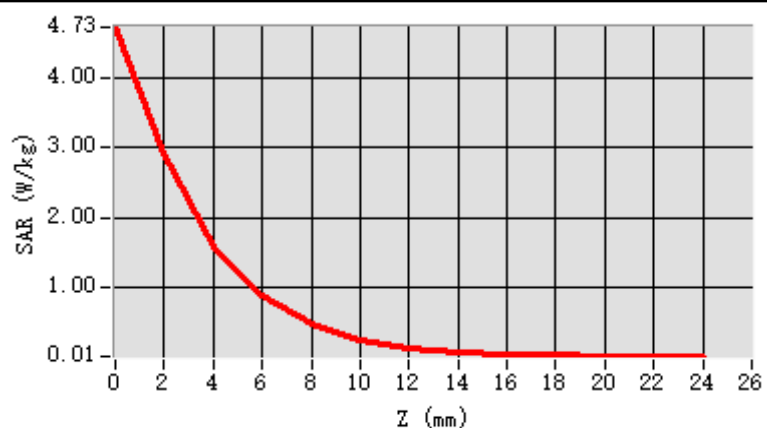
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 5.03 W/kg

D. SAR 1g & 10g

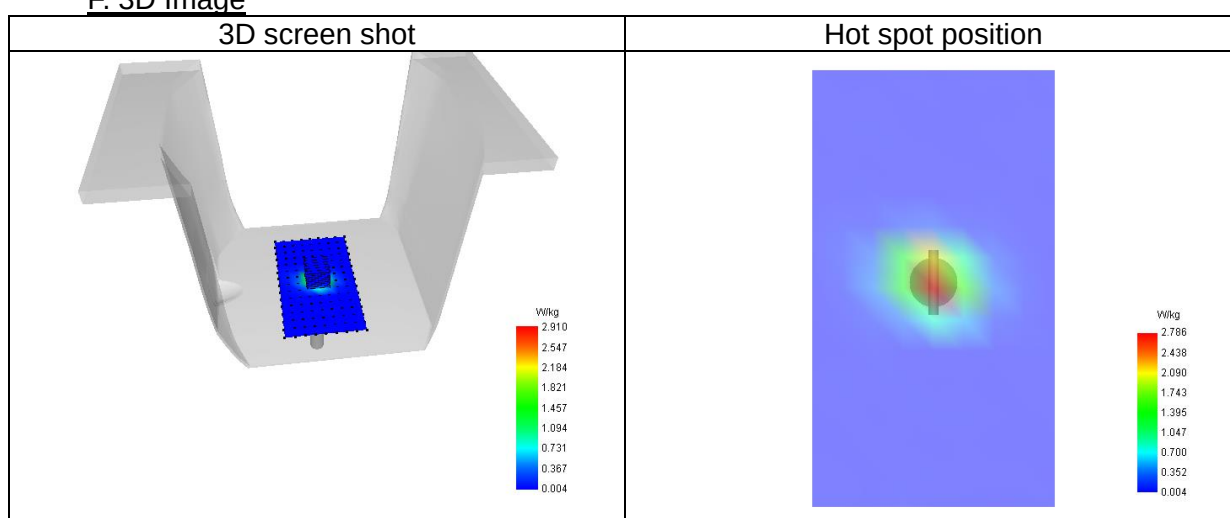
SAR 10g (W/Kg)	0.570
SAR 1g (W/Kg)	1.685
Variation (%)	0.15
Horizontal validation criteria: minimum distance (mm)	11.31
Vertical validation criteria: SAR ratio M2/M1 (%)	54.19

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
						0	0	0	0	0	0	0
SAR (W/Kg)	4.73	2.91	1.57	0.89	0.47	0.24	0.13	0.08	0.03	0.04	0.02	0.01
	2	0	7	6	5	9	4	2	4	9	1	0



F. 3D Image



10# System check at 5800 MHz
Date of measurement: 15/5/2025

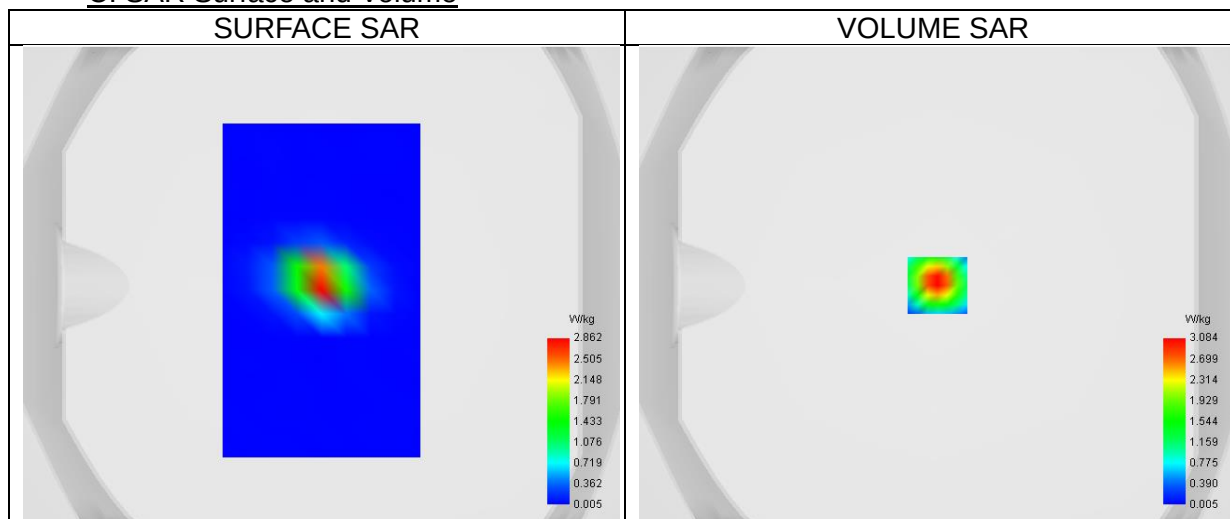
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.35
Area Scan	dx=10mm dy=10mm, Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2.0mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW5800
Signal	CW
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	5800.00
Relative permittivity (real part)	35.93
Relative permittivity (imaginary part)	15.84
Conductivity (S/m)	5.11

C. SAR Surface and Volume



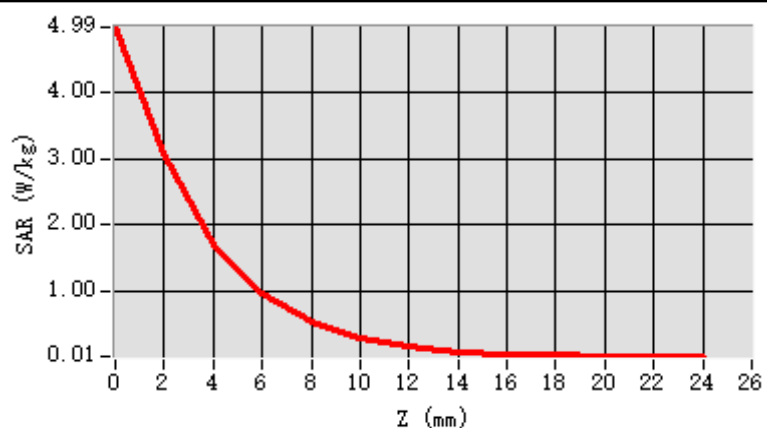
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 5.35 W/kg

D. SAR 1g & 10g

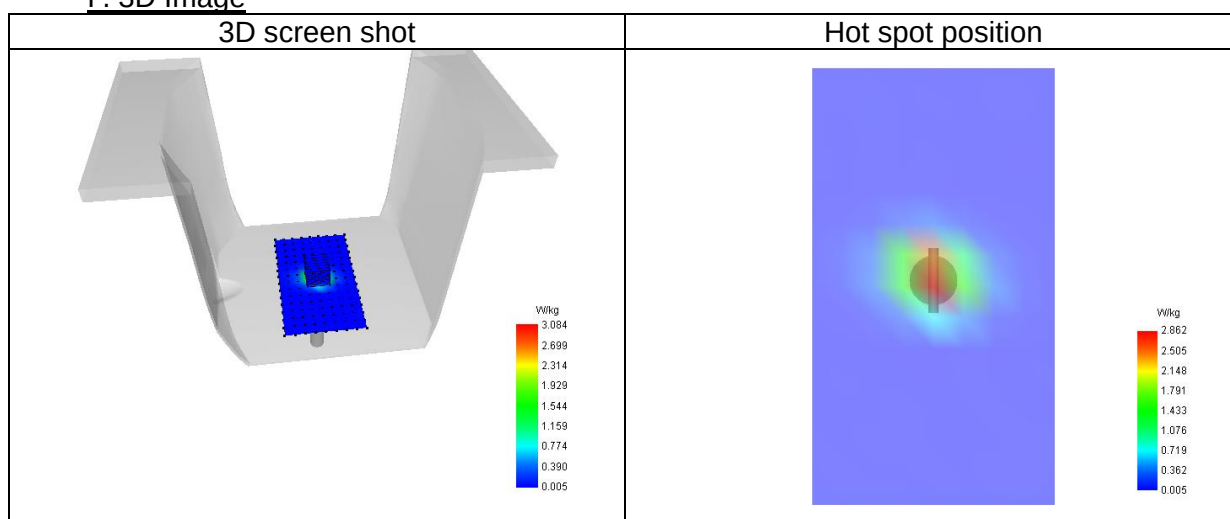
SAR 10g (W/Kg)	0.605
SAR 1g (W/Kg)	1.812
Variation (%)	-1.85
Horizontal validation criteria: minimum distance (mm)	8.94
Vertical validation criteria: SAR ratio M2/M1 (%)	54.81

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
						0	0	0	0	0	0	0
SAR (W/Kg)	4.98	3.08	1.69	0.95	0.52	0.28	0.15	0.06	0.03	0.02	0.00	0.01
	7	4	0	9	4	3	6	7	7	5	7	2



F. 3D Image



13. Appendix C. Plots of High SAR Measurement

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1# SAR Measurement at GPRS850 (Body, Validation Plane)

Date of measurement: 25/5/2025

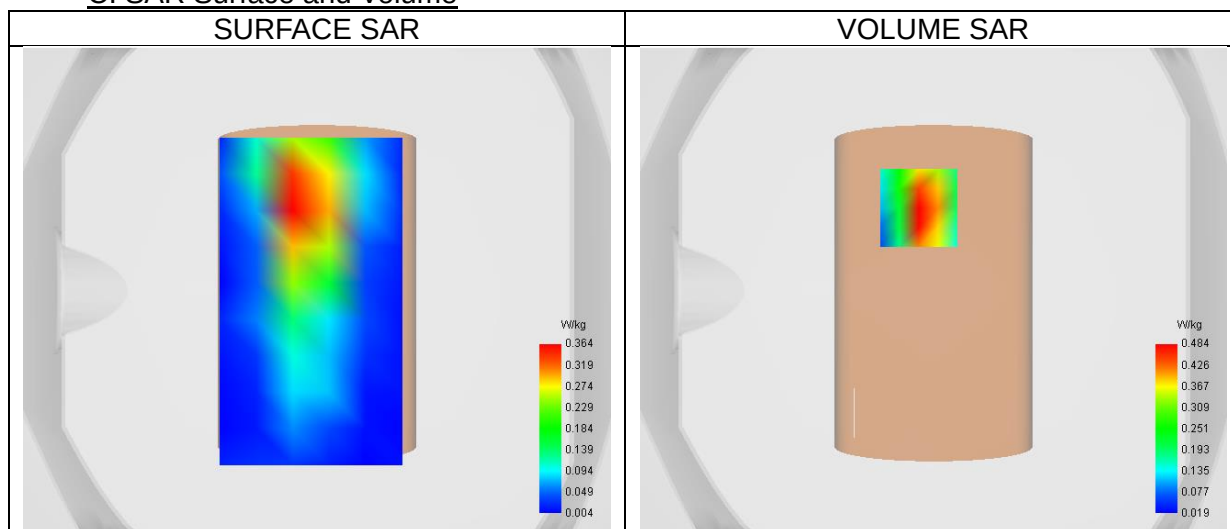
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.32
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	GPRS850
Signal	TDMA (GPRS)
Channels/Frequency	Middle (189)/ frequency 836.40 Mhz
Modulation	GMSK (CS-4)
TX-slots	4

B. Permittivity

Middle TX Frequency (MHz)	836.40
Relative permittivity (real part)	42.02
Relative permittivity (imaginary part)	19.83
Conductivity (S/m)	0.92

C. SAR Surface and Volume



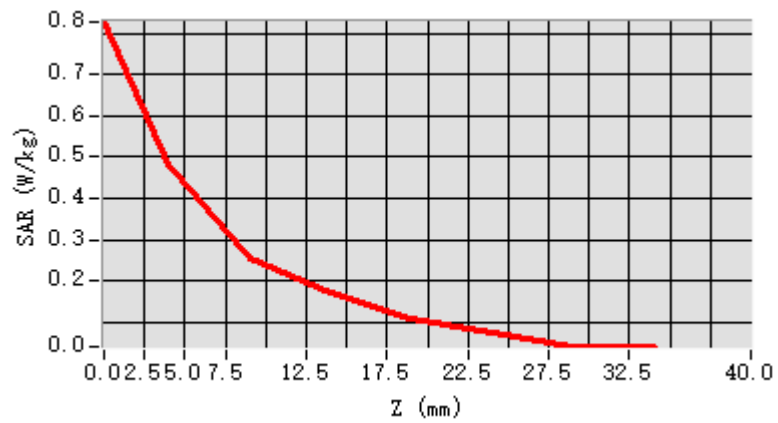
Maximum location: X=-6.00, Y=34.00 ; SAR Peak: 0.85 W/kg

D. SAR 1g & 10g

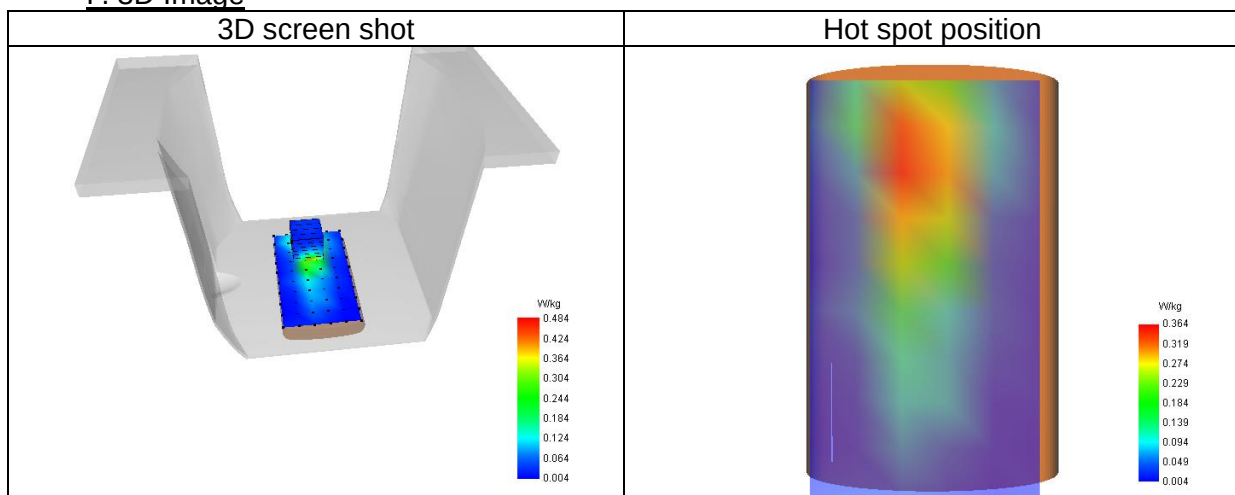
SAR 10g (W/Kg)	0.237
SAR 1g (W/Kg)	0.482
Variation (%)	-0.88
Horizontal validation criteria: minimum distance (mm)	8.00
Vertical validation criteria: SAR ratio M2/M1 (%)	54.23

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.827	0.484	0.254	0.170	0.107	0.076	0.041



F. 3D Image



2# SAR Measurement at GPRS1900 (Body, Validation Plane)

Date of measurement: 26/5/2025

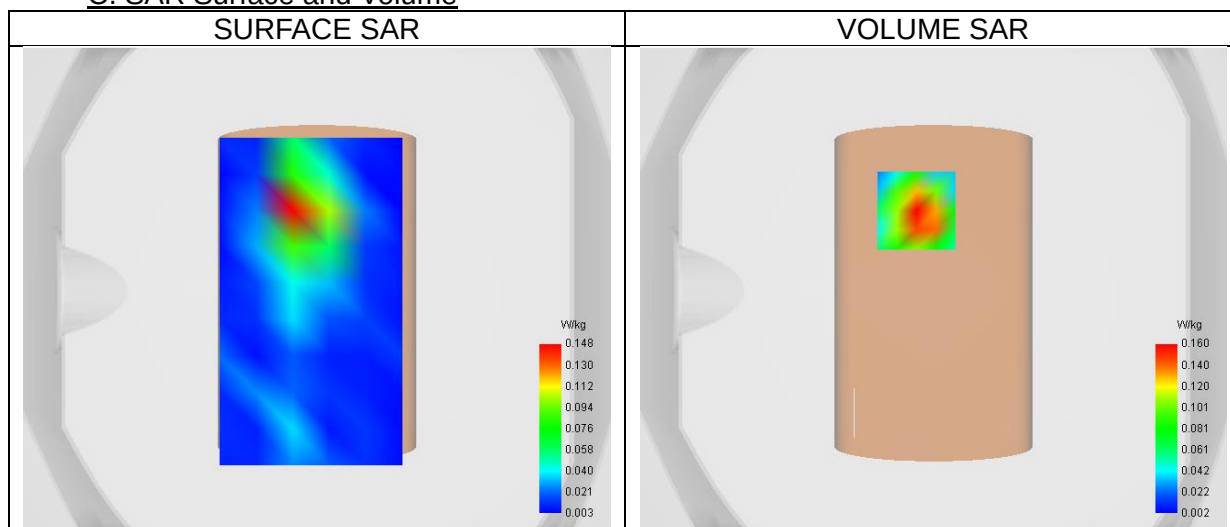
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.58
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	GPRS1900
Signal	TDMA (GPRS)
Channels/Frequency	Middle (661)/ frequency 1880.00 Mhz
Modulation	GMSK (CS-4)
TX-slots	4

B. Permittivity

Middle TX Frequency (MHz)	1880.00
Relative permittivity (real part)	38.37
Relative permittivity (imaginary part)	13.62
Conductivity (S/m)	1.42

C. SAR Surface and Volume



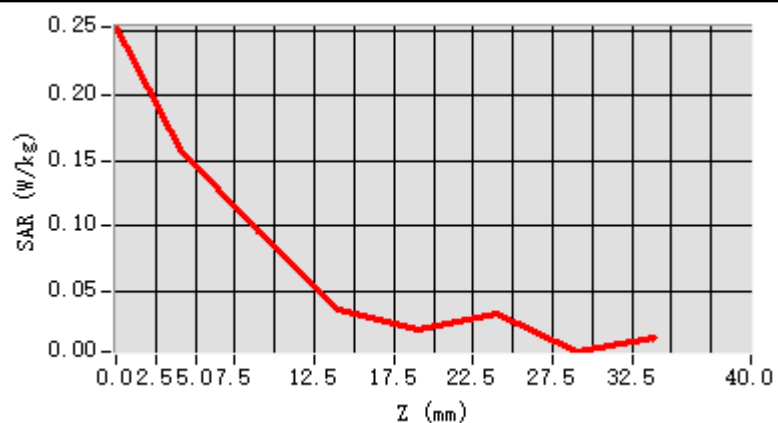
Maximum location: X=-7.00, Y=33.00 ; SAR Peak: 0.28 W/kg

D. SAR 1g & 10g

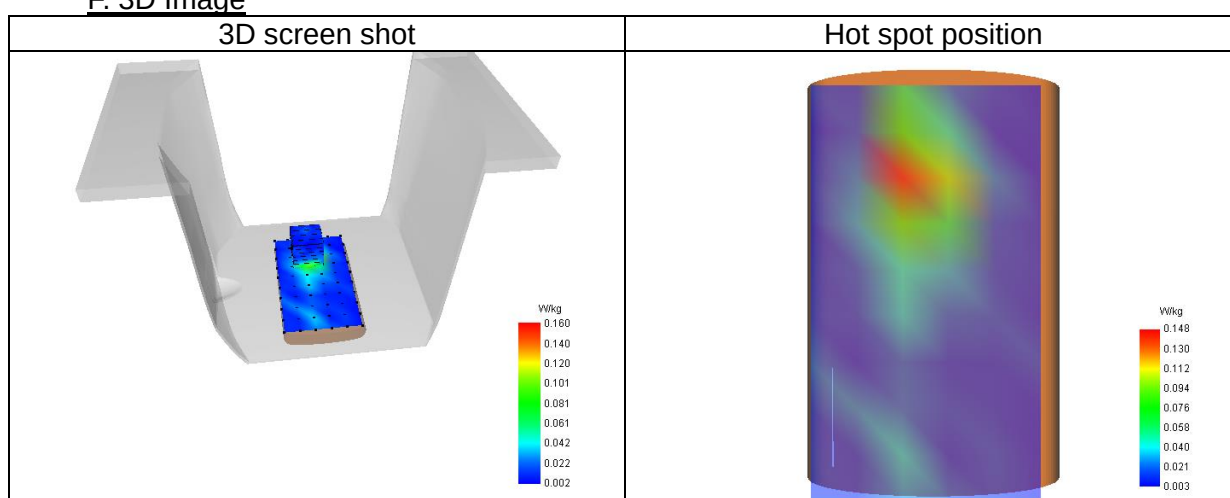
SAR 10g (W/Kg)	0.076
SAR 1g (W/Kg)	0.154
Variation (%)	3.35
Horizontal validation criteria: minimum distance (mm)	16.00
Vertical validation criteria: SAR ratio M2/M1 (%)	60.03

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.253	0.160	0.096	0.036	0.021	0.032	0.004



F. 3D Image



3# SAR Measurement at Band 2 (1900) (Body, Validation Plane)

Date of measurement: 26/5/2025

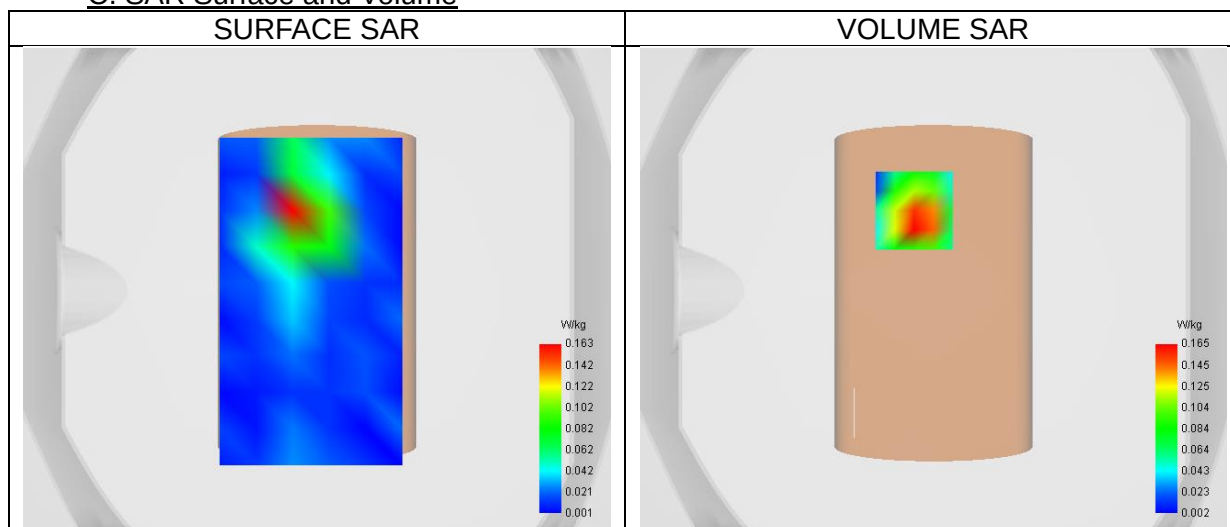
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.58
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	Band 2 (1900)
Signal	WCDMA
Channels/Frequency	Middle (9400)/ frequency 1880.00 Mhz
Mode	Release 99
Connection Type	RMC, 12.2 kbps

B. Permittivity

Middle TX Frequency (MHz)	1880.00
Relative permittivity (real part)	38.37
Relative permittivity (imaginary part)	13.62
Conductivity (S/m)	1.42

C. SAR Surface and Volume



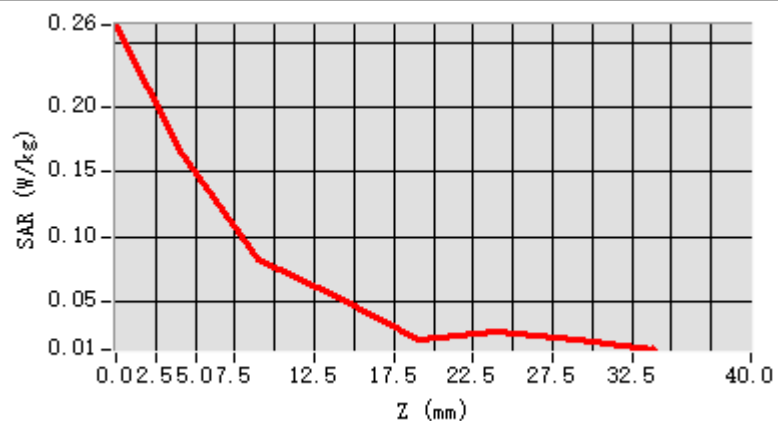
Maximum location: X=-8.00, Y=33.00 ; SAR Peak: 0.30 W/kg

D. SAR 1g & 10g

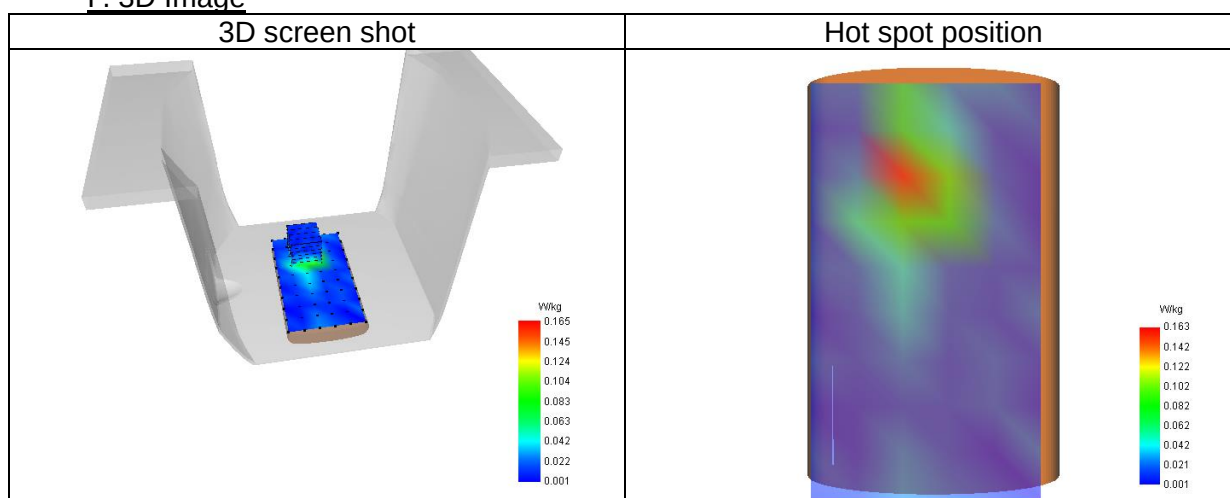
SAR 10g (W/Kg)	0.079
SAR 1g (W/Kg)	0.165
Variation (%)	-0.50
Horizontal validation criteria: minimum distance (mm)	11.31
Vertical validation criteria: SAR ratio M2/M1 (%)	53.38

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.264	0.165	0.082	0.052	0.020	0.027	0.020



F. 3D Image



4# SAR Measurement at Band 4 (1700) (Body, Validation Plane)

Date of measurement: 22/5/2025

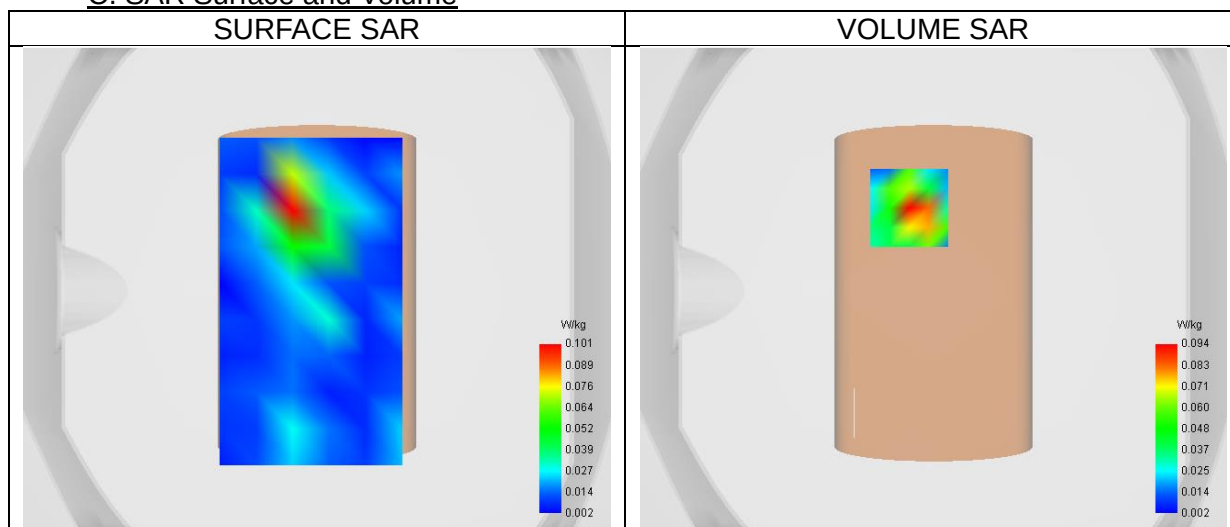
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.50
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	Band 4 (1700)
Signal	WCDMA
Channels/Frequency	Middle (1413)/ frequency 1732.60 Mhz
Mode	Release 99
Connection Type	RMC, 12.2 kbps

B. Permittivity

Middle TX Frequency (MHz)	1732.60
Relative permittivity (real part)	39.30
Relative permittivity (imaginary part)	13.73
Conductivity (S/m)	1.32

C. SAR Surface and Volume



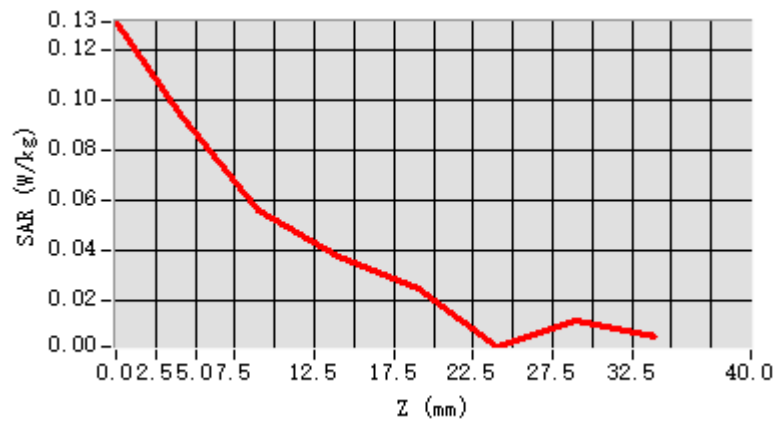
Maximum location: X=-10.00, Y=34.00 ; SAR Peak: 0.17 W/kg

D. SAR 1g & 10g

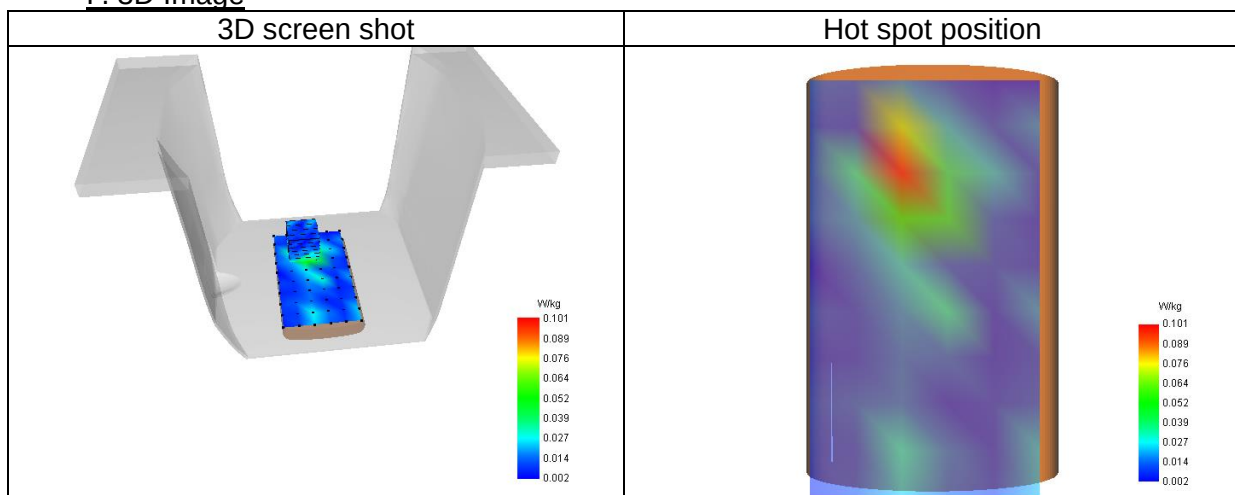
SAR 10g (W/Kg)	0.042
SAR 1g (W/Kg)	0.087
Variation (%)	-0.77
Horizontal validation criteria: minimum distance (mm)	11.31
Vertical validation criteria: SAR ratio M2/M1 (%)	59.46

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.131	0.094	0.056	0.038	0.025	0.002	0.013



F. 3D Image



5# SAR Measurement at Band 5 (850) (Body, Validation Plane)

Date of measurement: 25/5/2025

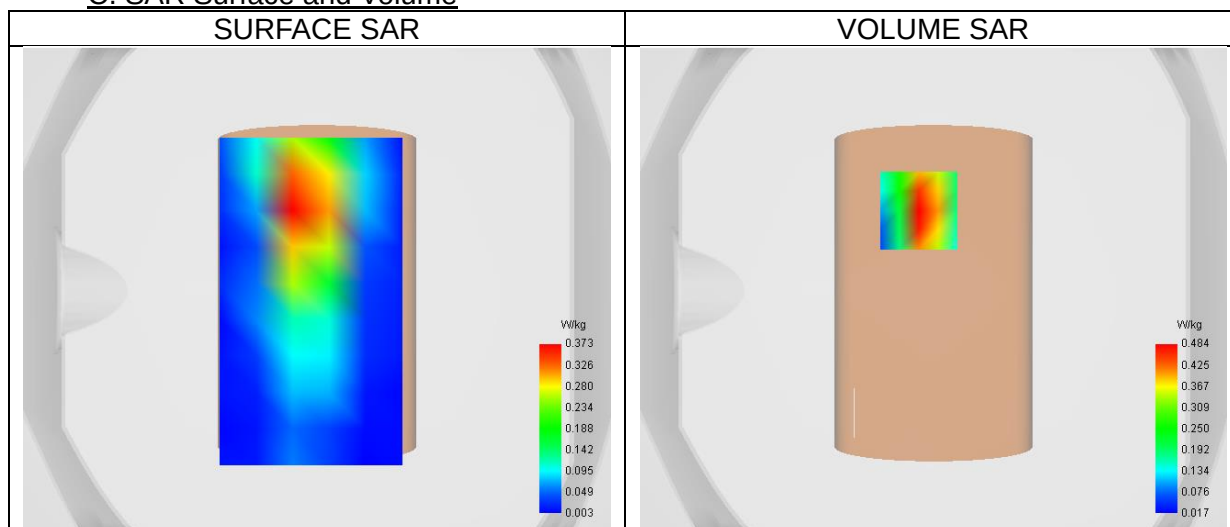
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.32
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	Band 5 (850)
Signal	WCDMA
Channels/Frequency	Middle (4182)/ frequency 836.40 Mhz
Mode	Release 99
Connection Type	RMC, 12.2 kbps

B. Permittivity

Middle TX Frequency (MHz)	836.40
Relative permittivity (real part)	42.02
Relative permittivity (imaginary part)	19.83
Conductivity (S/m)	0.92

C. SAR Surface and Volume



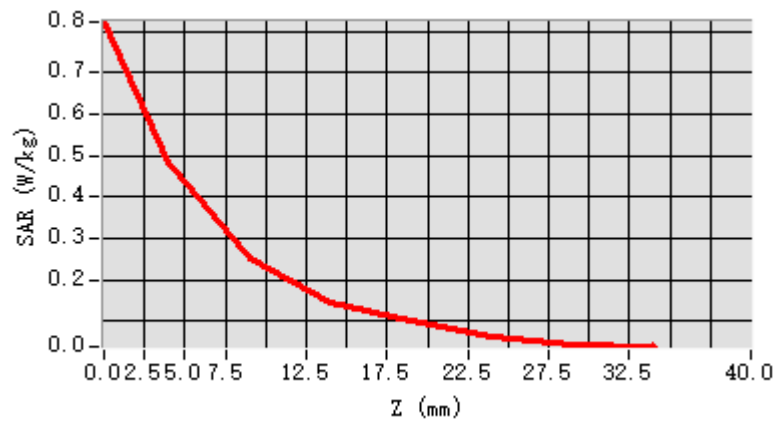
Maximum location: X=-6.00, Y=33.00 ; SAR Peak: 0.83 W/kg

D. SAR 1g & 10g

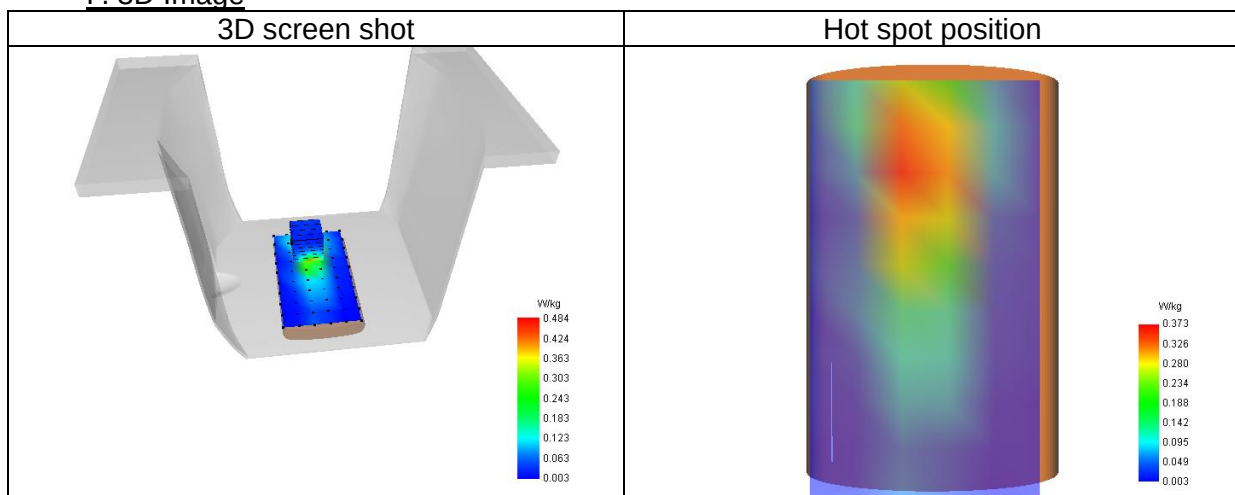
SAR 10g (W/Kg)	0.231
SAR 1g (W/Kg)	0.471
Variation (%)	0.06
Horizontal validation criteria: minimum distance (mm)	8.00
Vertical validation criteria: SAR ratio M2/M1 (%)	54.13

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.822	0.484	0.252	0.146	0.100	0.062	0.042



F. 3D Image



6# SAR Measurement at U-NII-1 (Body, Validation Plane)

Date of measurement: 18/5/2025

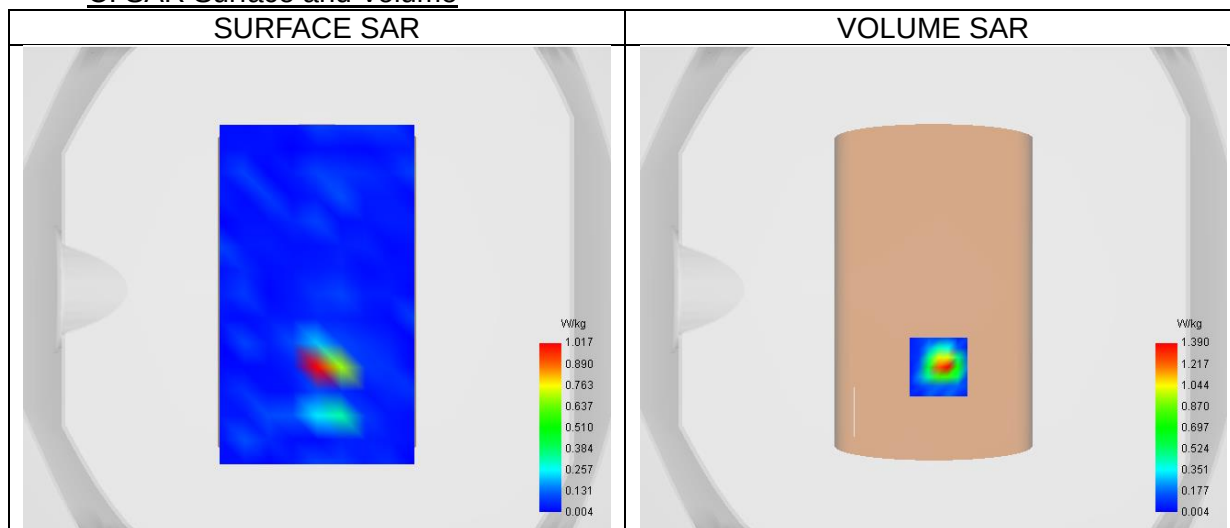
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.37
Area Scan	dx=10mm dy=10mm, Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	U-NII-1
Signal	IEEE 802.11 n
Channels/Frequency	Middle (46)/ frequency 5230.00 Mhz

B. Permittivity

Middle TX Frequency (MHz)	5230.00
Relative permittivity (real part)	37.39
Relative permittivity (imaginary part)	15.72
Conductivity (S/m)	4.64

C. SAR Surface and Volume



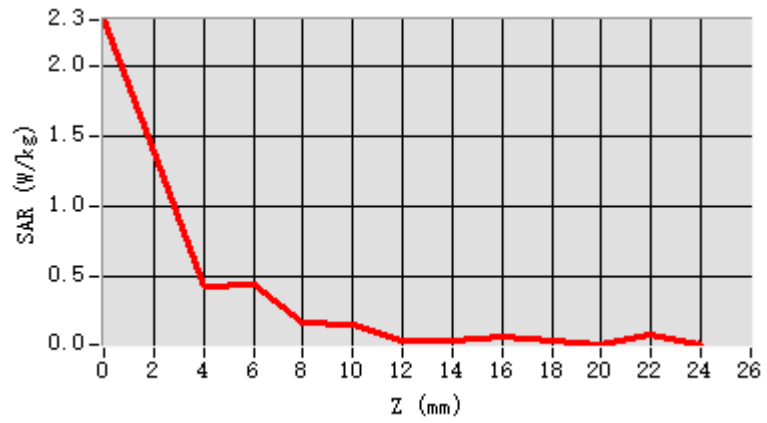
Maximum location: X=2.00, Y=-32.00 ; SAR Peak: 2.50 W/kg

D. SAR 1g & 10g

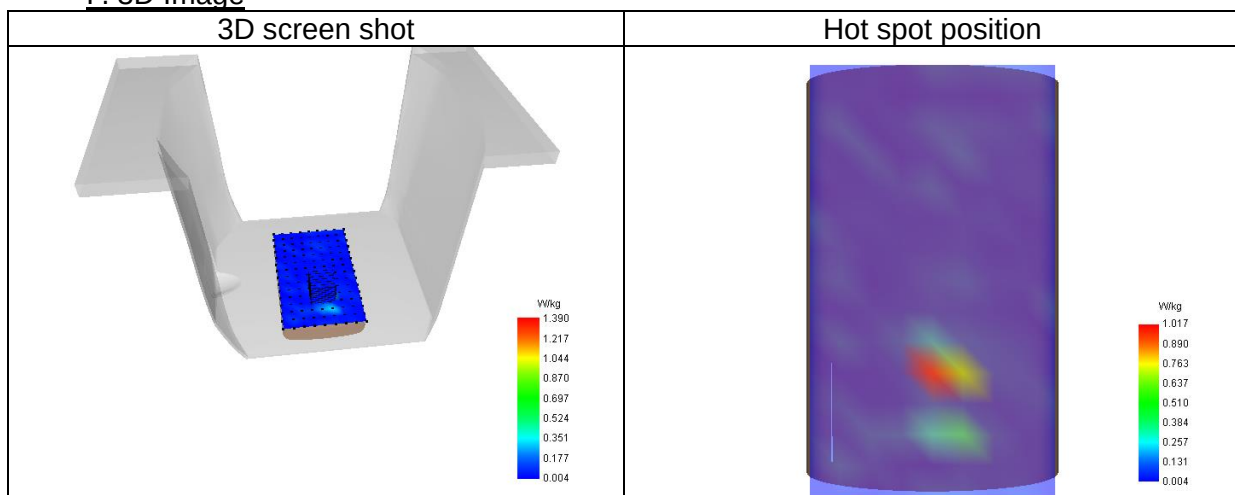
SAR 10g (W/Kg)	0.169
SAR 1g (W/Kg)	0.556
Variation (%)	3.18
Horizontal validation criteria: minimum distance (mm)	5.66
Vertical validation criteria: SAR ratio M2/M1 (%)	55.32

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
						0	0	0	0	0	0	0
SAR (W/Kg)	2.32	1.39	0.43	0.44	0.17	0.15	0.04	0.04	0.08	0.04	0.02	0.08
	5	0	2	0	3	8	8	3	0	0	0	2



F. 3D Image



7# SAR Measurement at U-NII-2a (Body, Validation Plane)

Date of measurement: 23/5/2025

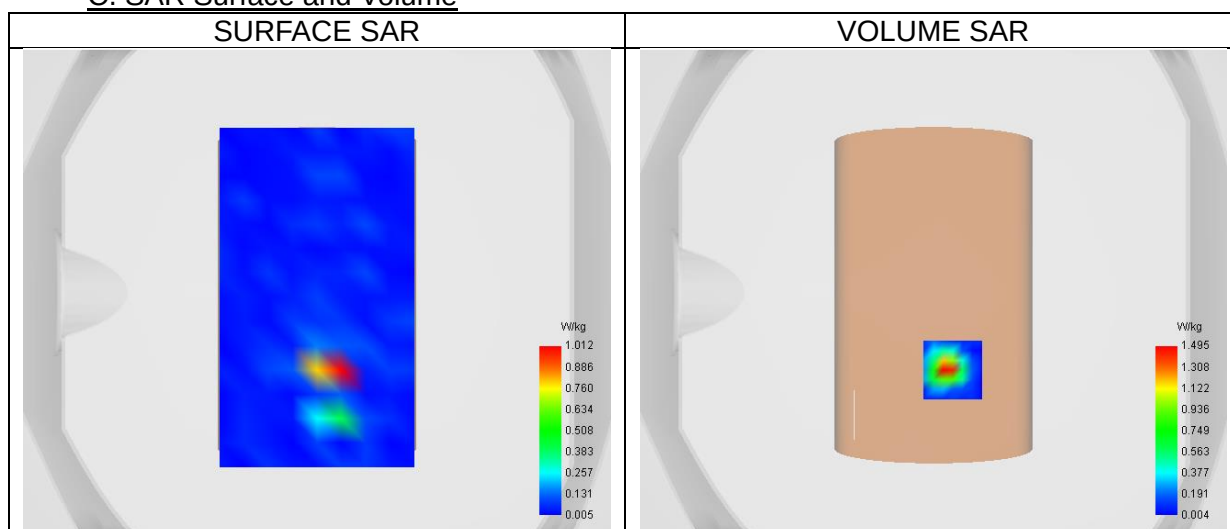
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.37
Area Scan	dx=10mm dy=10mm, Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	U-NII-2a
Signal	IEEE 802.11 a
Channels/Frequency	Middle (54)/ frequency 5270.00 Mhz

B. Permittivity

Middle TX Frequency (MHz)	5270.00
Relative permittivity (real part)	35.85
Relative permittivity (imaginary part)	16.46
Conductivity (S/m)	4.83

C. SAR Surface and Volume



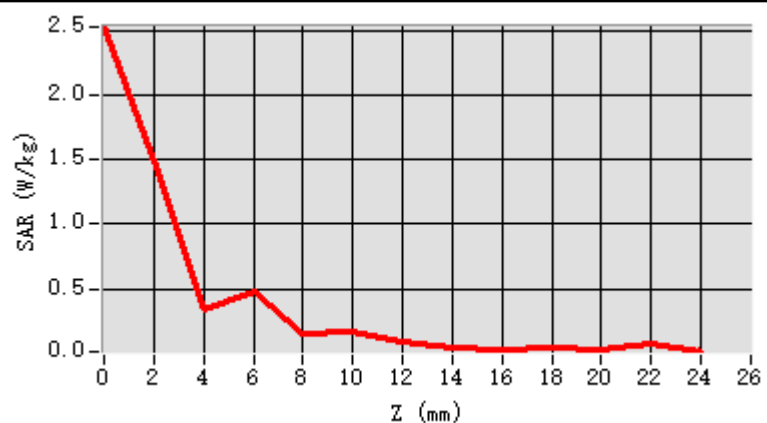
Maximum location: X=8.00, Y=-32.00 ; SAR Peak: 2.86 W/kg

D. SAR 1g & 10g

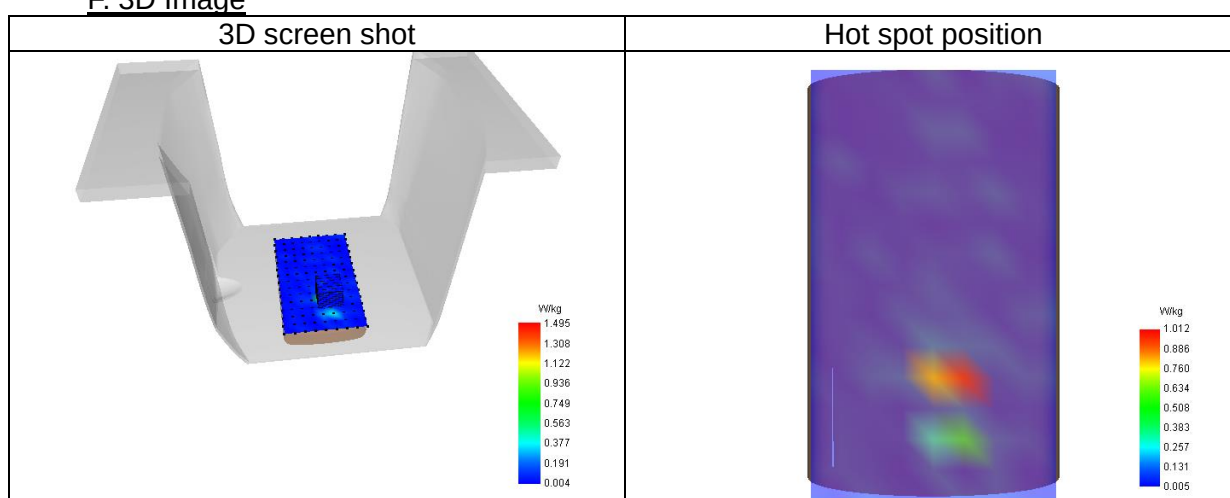
SAR 10g (W/Kg)	0.171
SAR 1g (W/Kg)	0.509
Variation (%)	4.91
Horizontal validation criteria: minimum distance (mm)	5.66
Vertical validation criteria: SAR ratio M2/M1 (%)	55.12

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
						0	0	0	0	0	0	0
SAR (W/Kg)	2.52	1.49	0.34	0.48	0.15	0.16	0.09	0.05	0.02	0.05	0.03	0.08
	6	5	2	1	8	6	4	1	6	0	0	1



F. 3D Image



8# SAR Measurement at U-NII-2c (Body, Validation Plane)

Date of measurement: 24/5/2025

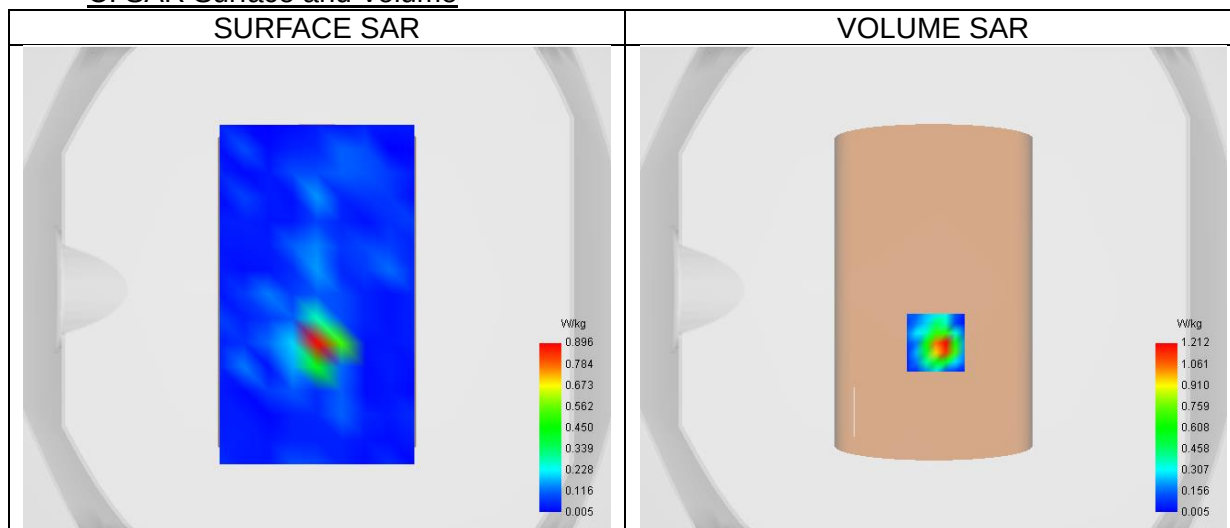
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.36
Area Scan	dx=10mm dy=10mm, Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	U-NII-2c
Signal	IEEE 802.11 a
Channels/Frequency	Middle (120)/ frequency 5600.00 Mhz

B. Permittivity

Middle TX Frequency (MHz)	5600.00
Relative permittivity (real part)	35.92
Relative permittivity (imaginary part)	16.31
Conductivity (S/m)	5.08

C. SAR Surface and Volume



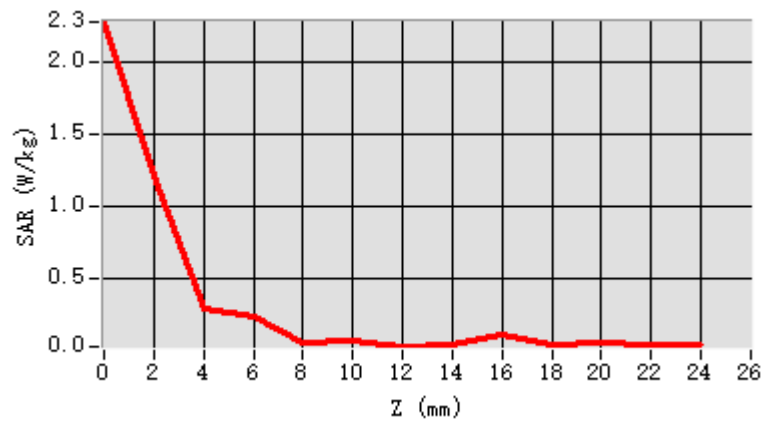
Maximum location: X=1.00, Y=-22.00 ; SAR Peak: 2.30 W/kg

D. SAR 1g & 10g

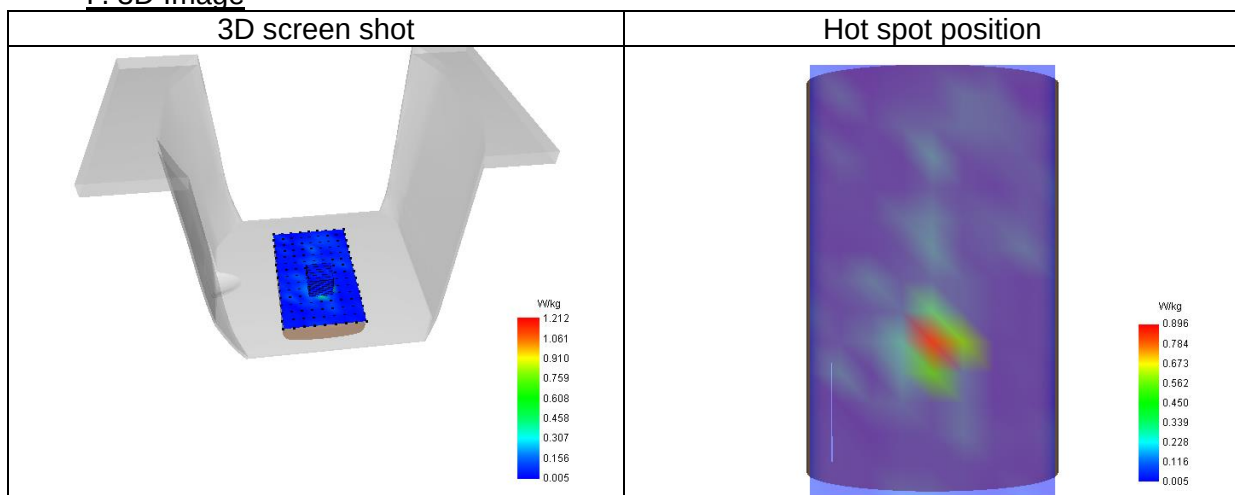
SAR 10g (W/Kg)	0.158
SAR 1g (W/Kg)	0.584
Variation (%)	-4.31
Horizontal validation criteria: minimum distance (mm)	5.66
Vertical validation criteria: SAR ratio M2/M1 (%)	51.79

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
						0	0	0	0	0	0	0
SAR (W/Kg)	2.27	1.21	0.28	0.23	0.04	0.06	0.02	0.04	0.10	0.04	0.04	0.03
	8	2	3	3	7	8	4	4	2	2	7	8



F. 3D Image



9# SAR Measurement at U-NII-3 (Body, Validation Plane)

Date of measurement: 15/5/2025

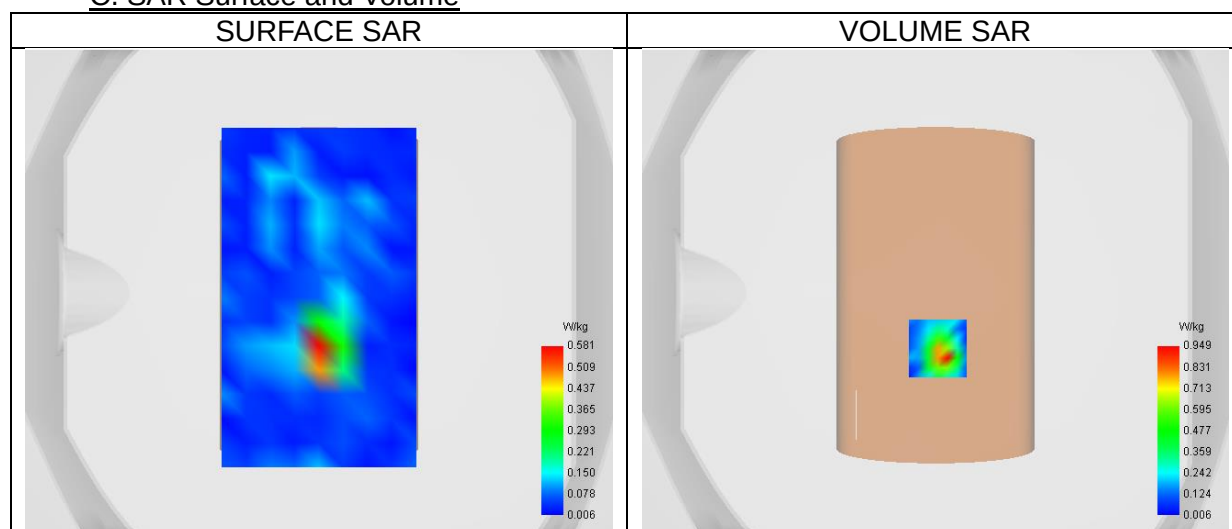
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.35
Area Scan	dx=10mm dy=10mm, Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	U-NII-3
Signal	IEEE 802.11 a
Channels/Frequency	Middle (151)/ frequency 5755.00 Mhz

B. Permittivity

Middle TX Frequency (MHz)	5755.00
Relative permittivity (real part)	36.00
Relative permittivity (imaginary part)	15.72
Conductivity (S/m)	5.05

C. SAR Surface and Volume



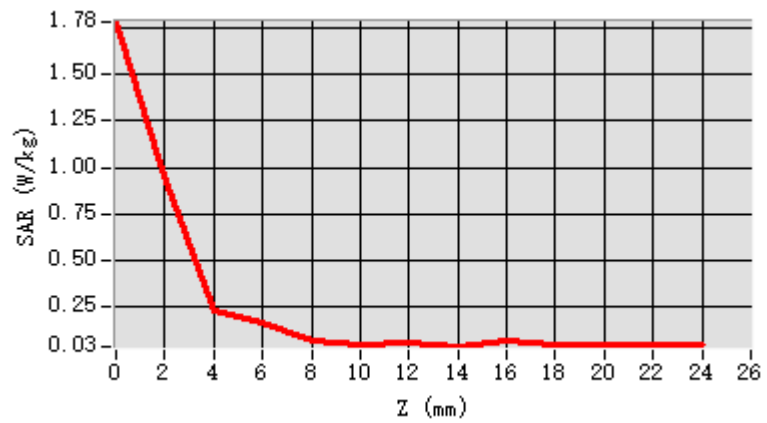
Maximum location: X=1.00, Y=-23.00 ; SAR Peak: 1.82 W/kg

D. SAR 1g & 10g

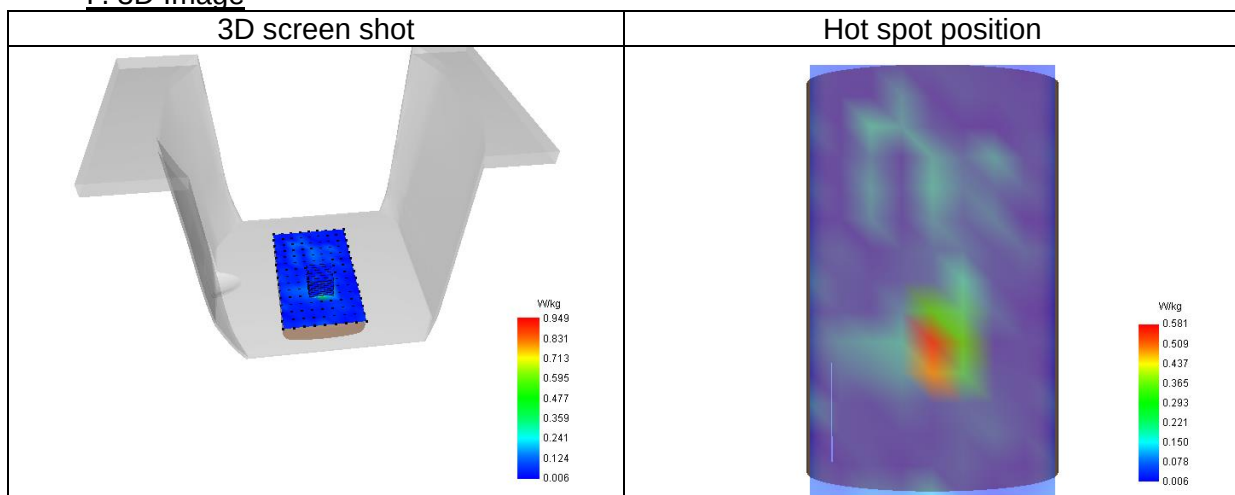
SAR 10g (W/Kg)	0.126
SAR 1g (W/Kg)	0.428
Variation (%)	-3.46
Horizontal validation criteria: minimum distance (mm)	5.66
Vertical validation criteria: SAR ratio M2/M1 (%)	47.04

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
						0	0	0	0	0	0	0
SAR (W/Kg)	1.78	0.94	0.22	0.15	0.06	0.03	0.05	0.03	0.05	0.03	0.04	0.04
	4	9	6	8	1	8	0	2	9	8	5	4



F. 3D Image



10# SAR Measurement at ISM (Body, Validation Plane)

Date of measurement: 16/5/2025

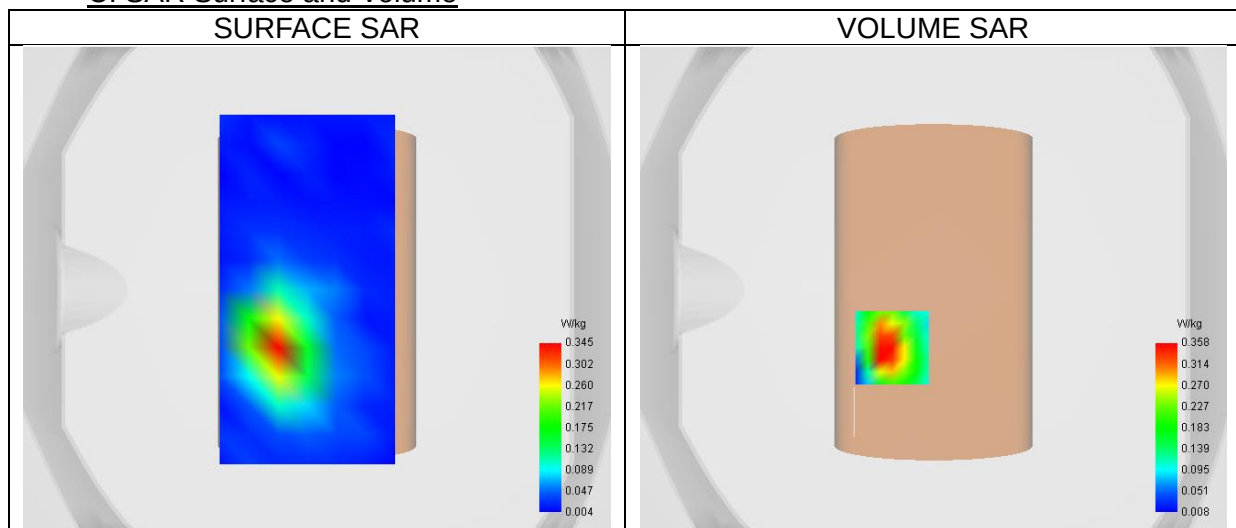
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.63
Area Scan	dx=12mm dy=12mm, Complete
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	ISM
Signal	IEEE 802.11 b
Channels/Frequency	Middle (6)/ frequency 2437.00 Mhz

B. Permittivity

Middle TX Frequency (MHz)	2437.00
Relative permittivity (real part)	38.18
Relative permittivity (imaginary part)	13.12
Conductivity (S/m)	1.78

C. SAR Surface and Volume



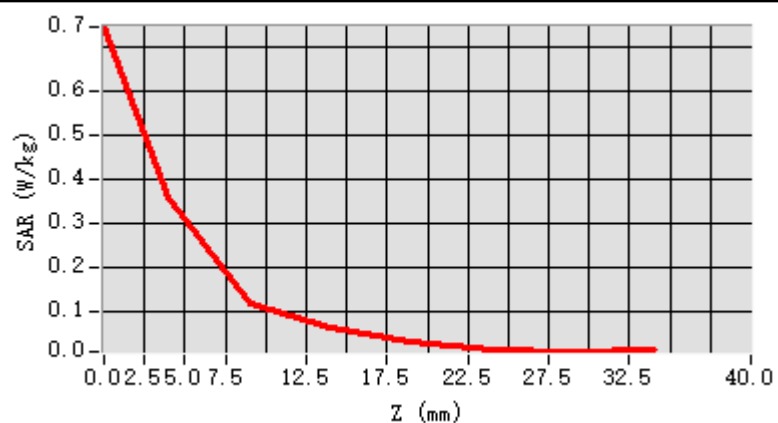
Maximum location: X=-17.00, Y=-24.00 ; SAR Peak: 0.70 W/kg

D. SAR 1g & 10g

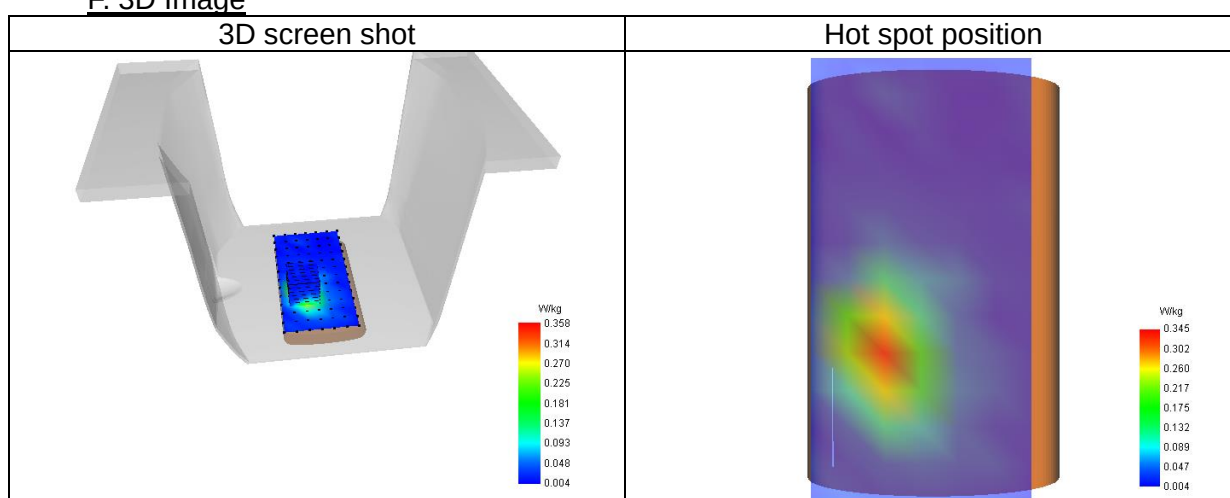
SAR 10g (W/Kg)	0.137
SAR 1g (W/Kg)	0.339
Variation (%)	-3.06
Horizontal validation criteria: minimum distance (mm)	7.07
Vertical validation criteria: SAR ratio M2/M1 (%)	47.40

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.743	0.358	0.119	0.067	0.035	0.015	0.011



F. 3D Image



11# SAR Measurement at LTE band 2 (Body, Validation Plane)

Date of measurement: 26/5/2025

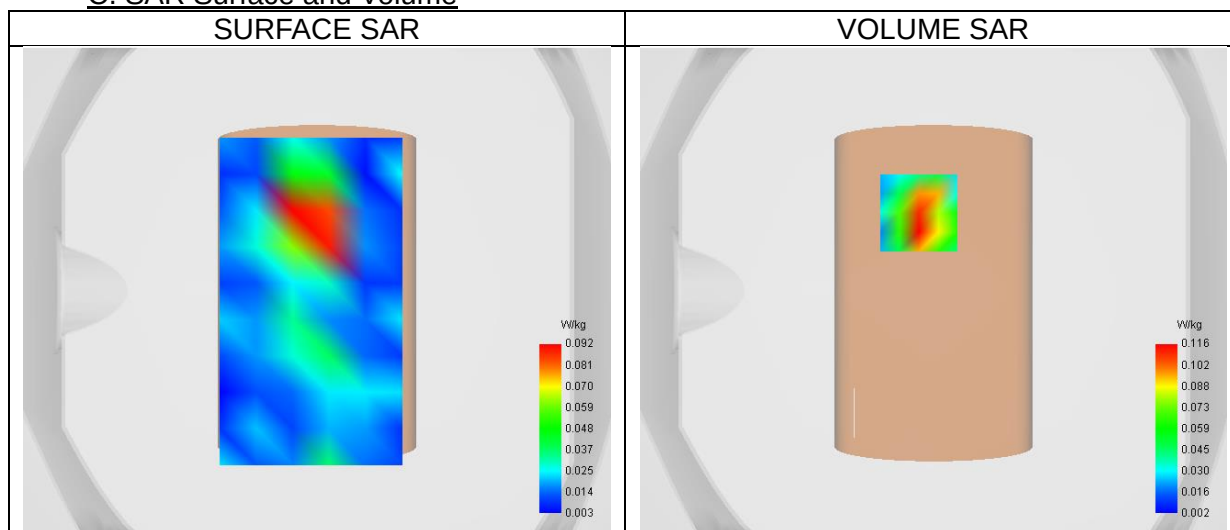
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.58
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 2
Signal	LTE FDD
Channel Center [EARFCN] / Channel Center [MHz]	Middle (18900)/ frequency 1880.00 Mhz
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
Middle TX Frequency (MHz)	1880.00

B. Permittivity

Middle TX Frequency (MHz)	1880.00
Relative permittivity (real part)	38.37
Relative permittivity (imaginary part)	13.62
Conductivity (S/m)	1.42

C. SAR Surface and Volume



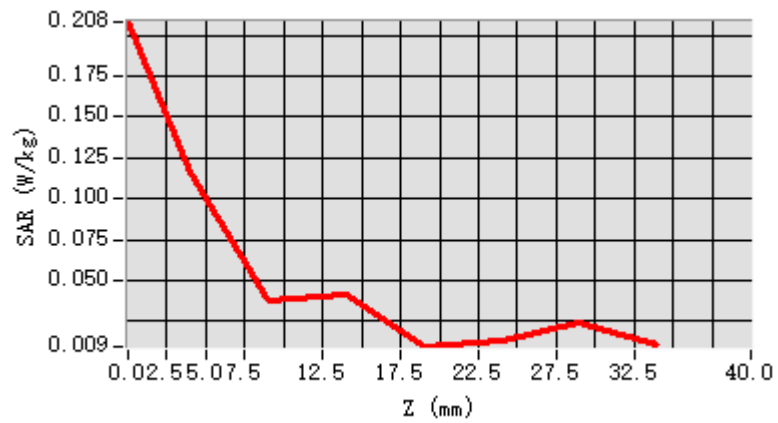
Maximum location: X=-6.00, Y=32.00 ; SAR Peak: 0.22 W/kg

D. SAR 1g & 10g

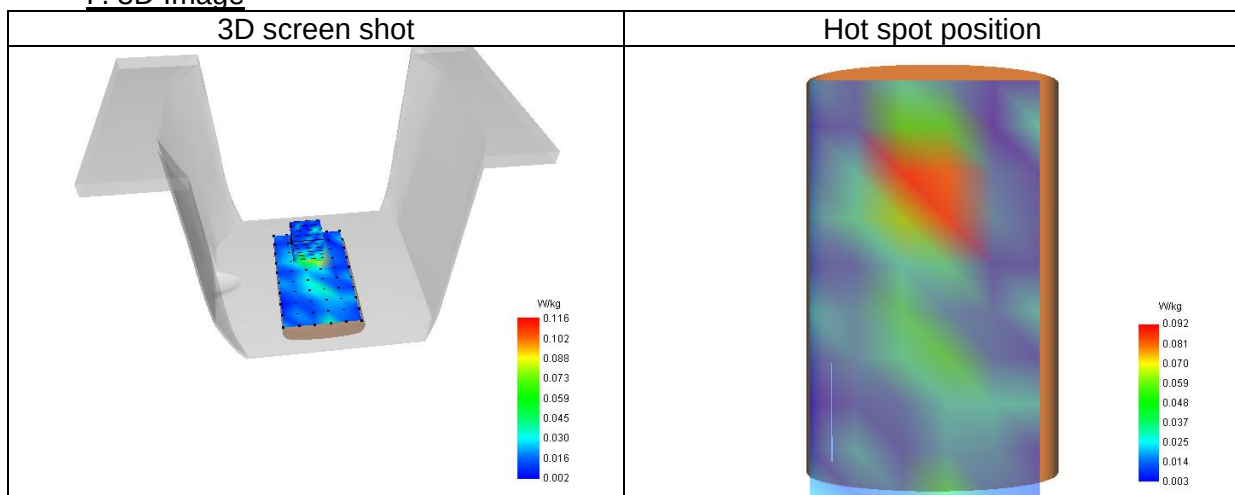
SAR 10g (W/Kg)	0.052
SAR 1g (W/Kg)	0.110
Variation (%)	1.01
Horizontal validation criteria: minimum distance (mm)	11.31
Vertical validation criteria: SAR ratio M2/M1 (%)	64.48

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.208	0.116	0.038	0.041	0.009	0.013	0.024



F. 3D Image



12# SAR Measurement at LTE band 4 (Body, Validation Plane)

Date of measurement: 22/5/2025

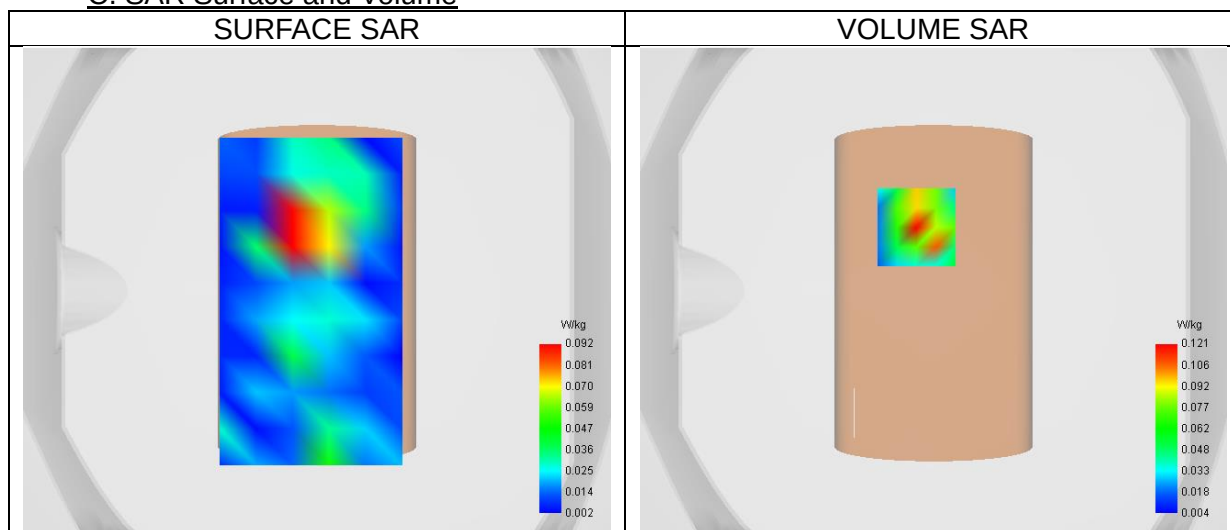
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.50
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 4
Signal	LTE FDD
Channel Center [EARFCN] / Channel Center [MHz]	Middle (20175)/ frequency 1732.50 Mhz
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
Middle TX Frequency (MHz)	1732.50

B. Permittivity

Middle TX Frequency (MHz)	1732.50
Relative permittivity (real part)	39.30
Relative permittivity (imaginary part)	13.73
Conductivity (S/m)	1.32

C. SAR Surface and Volume



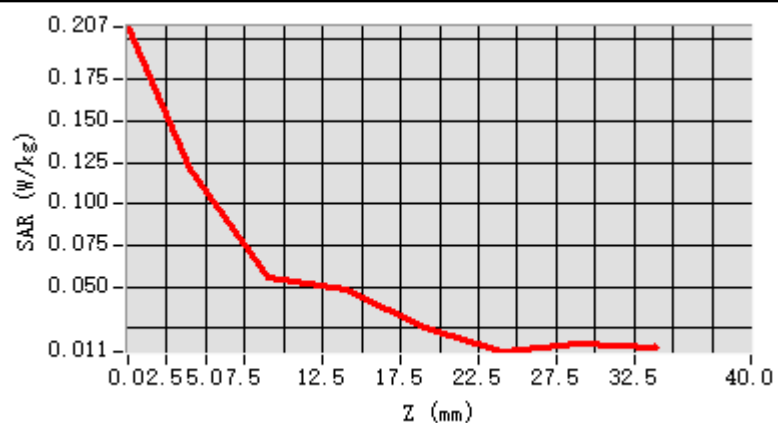
Maximum location: X=-7.00, Y=26.00 ; SAR Peak: 0.22 W/kg

D. SAR 1g & 10g

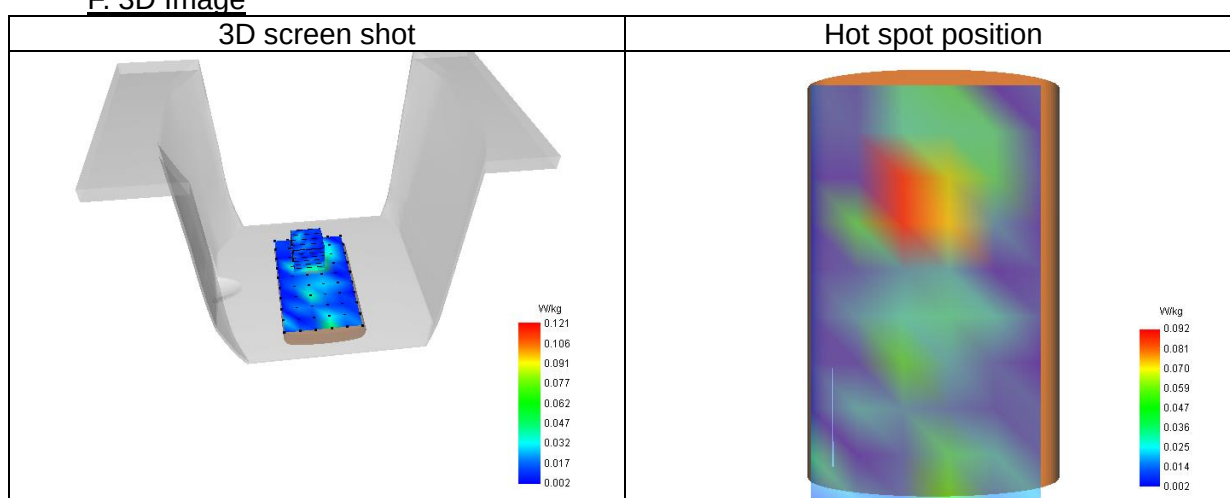
SAR 10g (W/Kg)	0.051
SAR 1g (W/Kg)	0.112
Variation (%)	0.68
Horizontal validation criteria: minimum distance (mm)	11.31
Vertical validation criteria: SAR ratio M2/M1 (%)	53.19

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.207	0.121	0.056	0.048	0.026	0.011	0.016



F. 3D Image



13# SAR Measurement at LTE band 5 (Body, Validation Plane)

Date of measurement: 25/5/2025

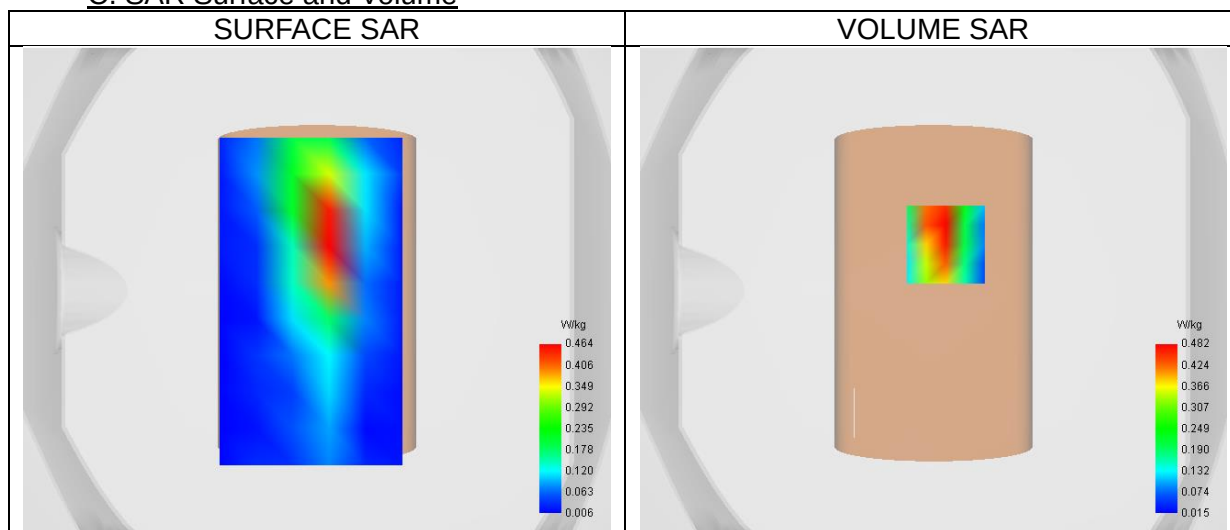
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.32
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 5
Signal	LTE FDD
Channel Center [EARFCN] / Channel Center [MHz]	Middle (20525)/ frequency 836.50 Mhz
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
Middle TX Frequency (MHz)	836.50

B. Permittivity

Middle TX Frequency (MHz)	836.50
Relative permittivity (real part)	42.02
Relative permittivity (imaginary part)	19.82
Conductivity (S/m)	0.92

C. SAR Surface and Volume



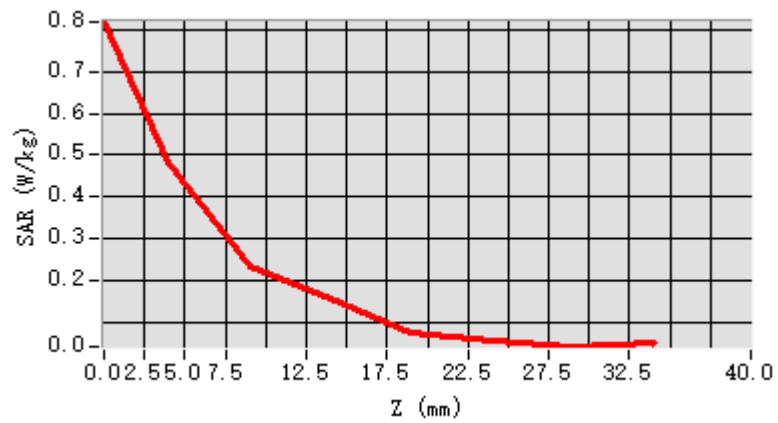
Maximum location: X=5.00, Y=19.00 ; SAR Peak: 0.84 W/kg

D. SAR 1g & 10g

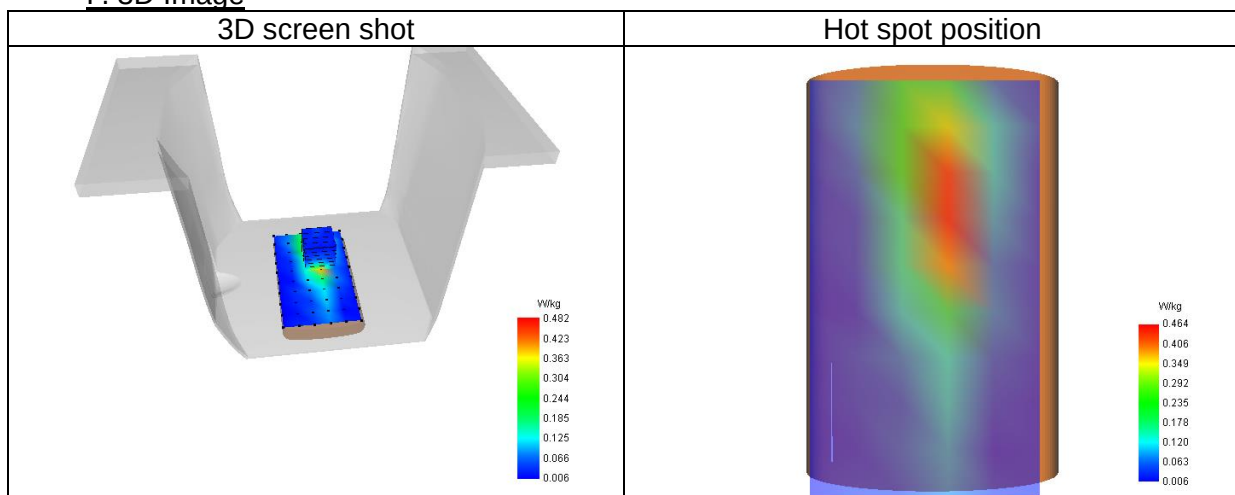
SAR 10g (W/Kg)	0.219
SAR 1g (W/Kg)	0.482
Variation (%)	0.01
Horizontal validation criteria: minimum distance (mm)	8.00
Vertical validation criteria: SAR ratio M2/M1 (%)	55.89

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.819	0.482	0.236	0.157	0.075	0.056	0.042



F. 3D Image



14# SAR Measurement at LTE band 7 (Body, Validation Plane)

Date of measurement: 20/5/2025

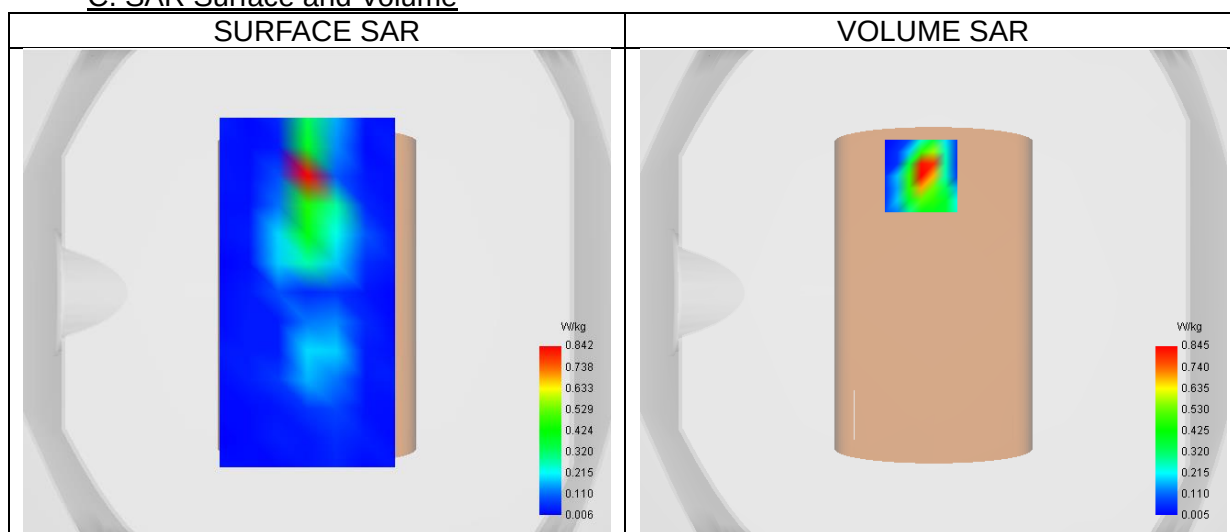
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.52
Area Scan	dx=12mm dy=12mm, Complete
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 7
Signal	LTE FDD
Channel Center [EARFCN] / Channel Center [MHz]	Middle (21100)/ frequency 2535.00 Mhz
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
Middle TX Frequency (MHz)	2535.00

B. Permittivity

Middle TX Frequency (MHz)	2535.00
Relative permittivity (real part)	39.52
Relative permittivity (imaginary part)	13.17
Conductivity (S/m)	1.85

C. SAR Surface and Volume



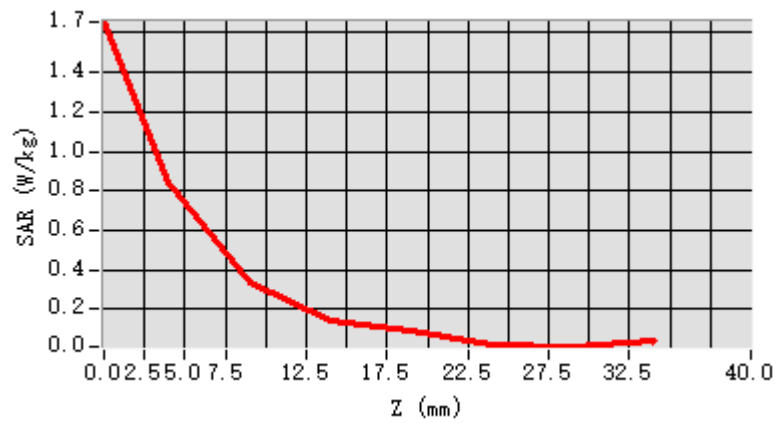
Maximum location: X=-5.00, Y=48.00 ; SAR Peak: 1.78 W/kg

D. SAR 1g & 10g

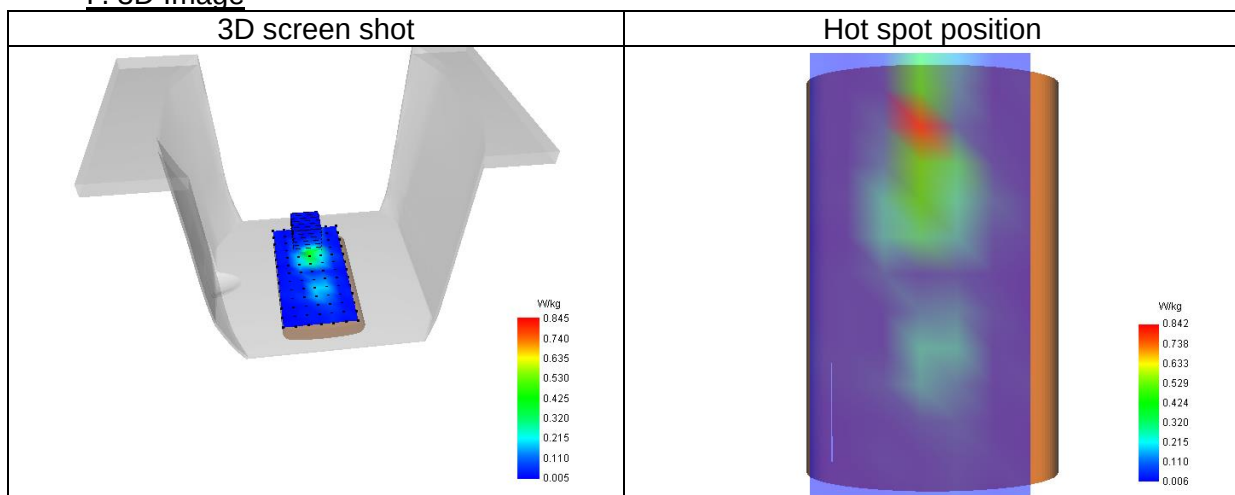
SAR 10g (W/Kg)	0.151
SAR 1g (W/Kg)	0.554
Variation (%)	2.82
Horizontal validation criteria: minimum distance (mm)	7.07
Vertical validation criteria: SAR ratio M2/M1 (%)	39.59

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.656	0.845	0.334	0.144	0.090	0.019	0.009



F. 3D Image



15# SAR Measurement at LTE band 12 (Body, Validation Plane)

Date of measurement: 21/5/2025

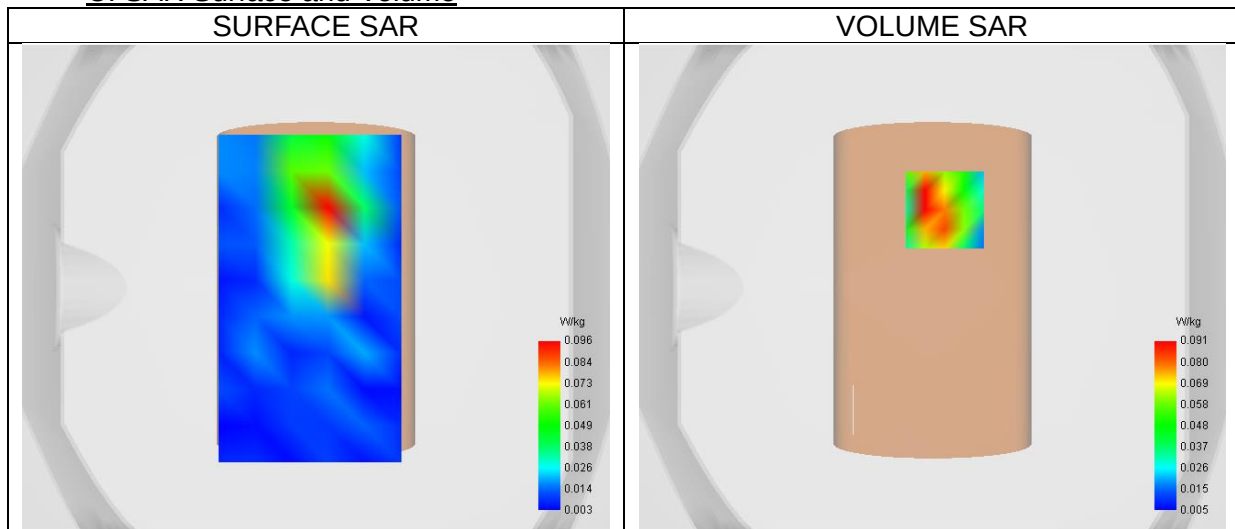
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.39
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 12
Signal	LTE FDD
Channel Center [EARFCN] / Channel Center [MHz]	Middle (23095)/ frequency 707.50 Mhz
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
Middle TX Frequency (MHz)	707.50

B. Permittivity

Middle TX Frequency (MHz)	707.50
Relative permittivity (real part)	41.34
Relative permittivity (imaginary part)	21.58
Conductivity (S/m)	0.85

C. SAR Surface and Volume



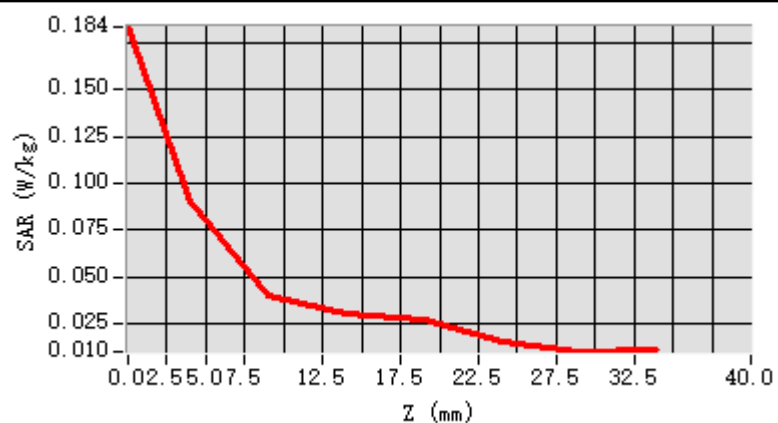
Maximum location: X=5.00, Y=32.00 ; SAR Peak: 0.14 W/kg

D. SAR 1g & 10g

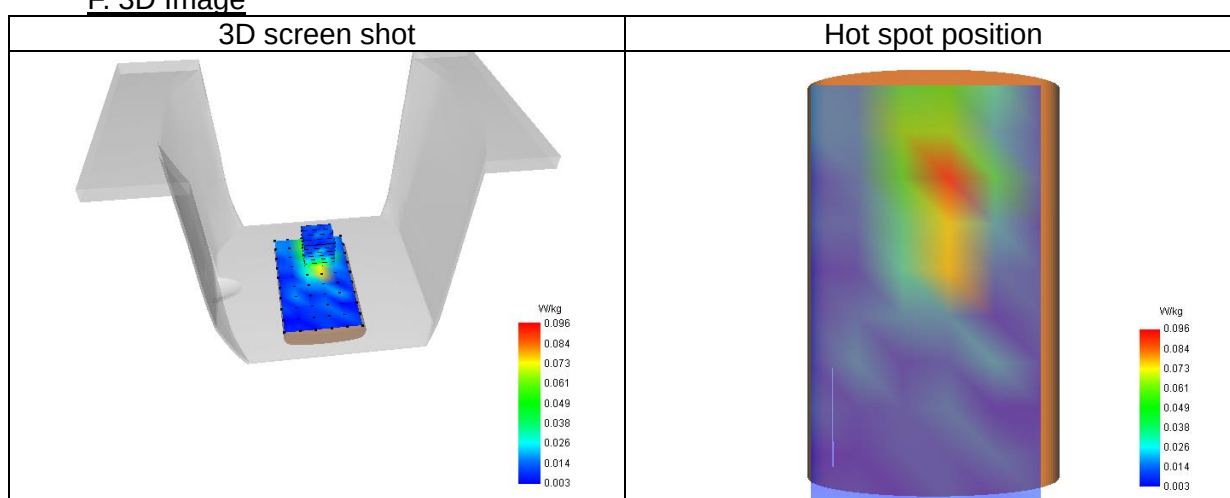
SAR 10g (W/Kg)	0.046
SAR 1g (W/Kg)	0.084
Variation (%)	2.42
Horizontal validation criteria: minimum distance (mm)	8.00
Vertical validation criteria: SAR ratio M2/M1 (%)	61.90

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.184	0.091	0.040	0.030	0.026	0.015	0.010



F. 3D Image



16# SAR Measurement at LTE band 13 (Body, Validation Plane)

Date of measurement: 21/5/2025

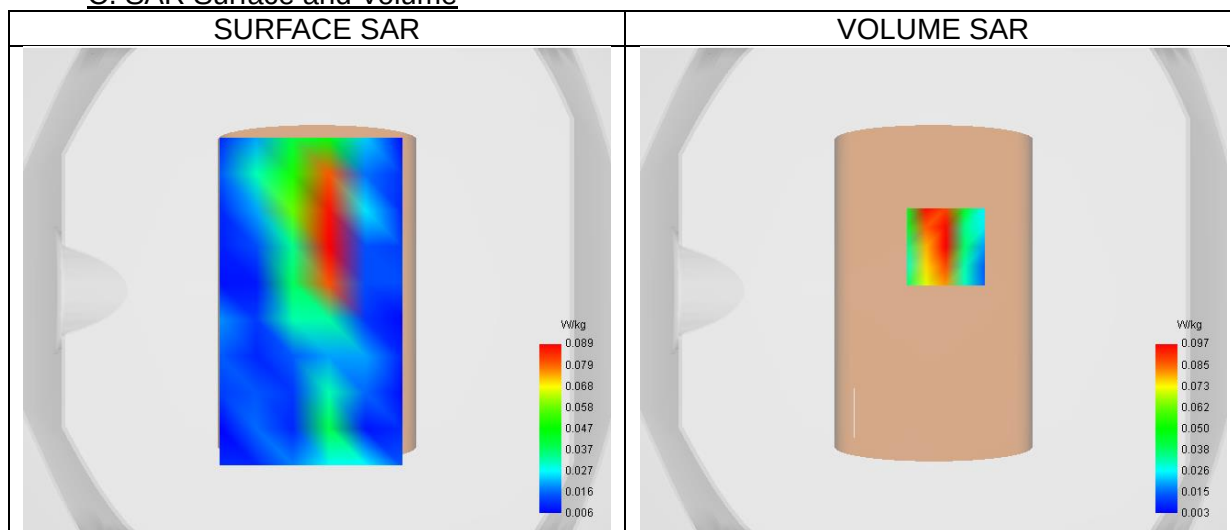
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.39
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 13
Signal	LTE FDD
Channel Center [EARFCN] / Channel Center [MHz]	Middle (23230)/ frequency 782.00 Mhz
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
Middle TX Frequency (MHz)	782.00

B. Permittivity

Middle TX Frequency (MHz)	782.00
Relative permittivity (real part)	40.45
Relative permittivity (imaginary part)	20.83
Conductivity (S/m)	0.90

C. SAR Surface and Volume



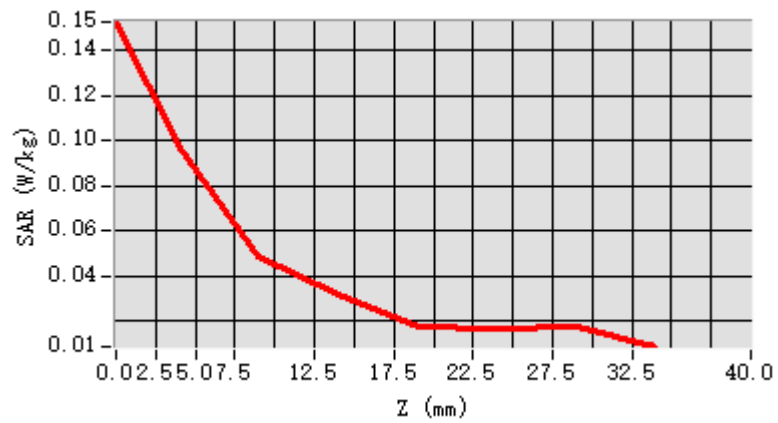
Maximum location: X=5.00, Y=18.00 ; SAR Peak: 0.17 W/kg

D. SAR 1g & 10g

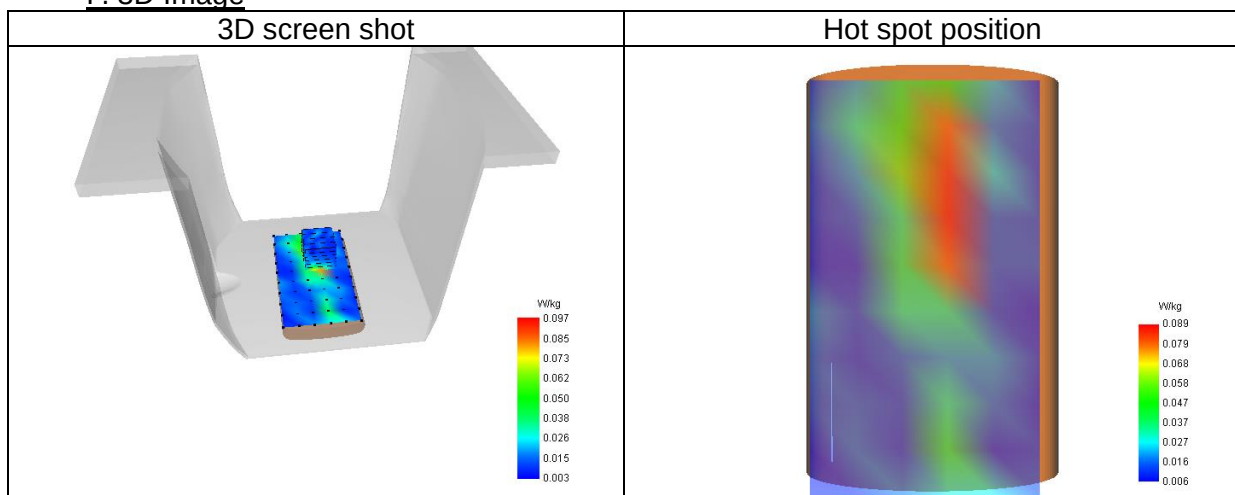
SAR 10g (W/Kg)	0.042
SAR 1g (W/Kg)	0.097
Variation (%)	0.37
Horizontal validation criteria: minimum distance (mm)	8.00
Vertical validation criteria: SAR ratio M2/M1 (%)	60.40

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.153	0.097	0.049	0.032	0.017	0.016	0.018



F. 3D Image



17# SAR Measurement at LTE band 25 (Body, Validation Plane)

Date of measurement: 26/5/2025

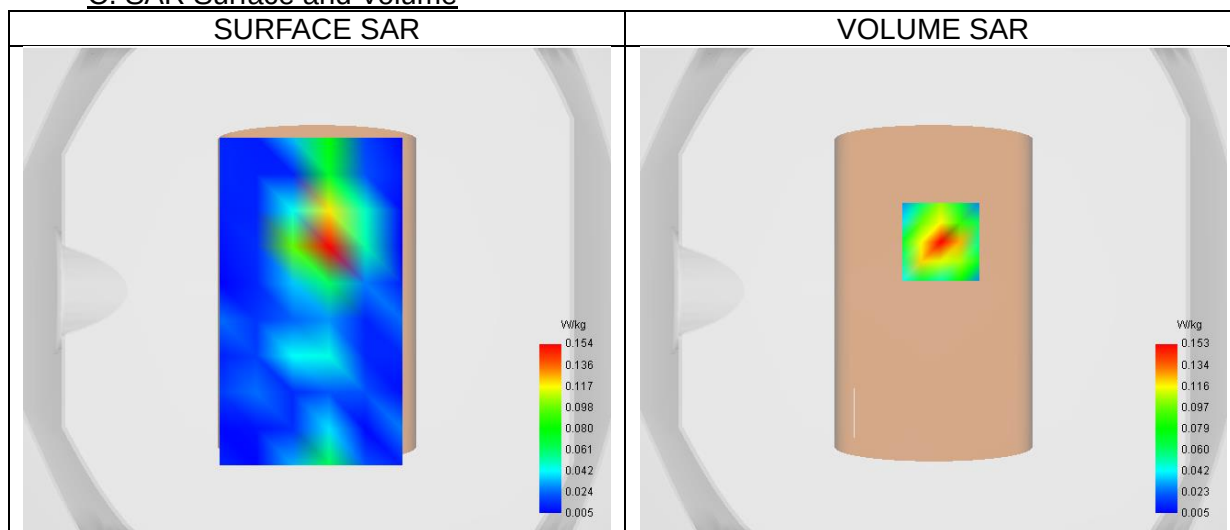
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.58
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 25
Signal	LTE FDD
Channel Center [EARFCN] / Channel Center [MHz]	Middle (26365)/ frequency 1882.50 Mhz
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
Middle TX Frequency (MHz)	1882.50

B. Permittivity

Middle TX Frequency (MHz)	1882.50
Relative permittivity (real part)	38.36
Relative permittivity (imaginary part)	13.63
Conductivity (S/m)	1.43

C. SAR Surface and Volume



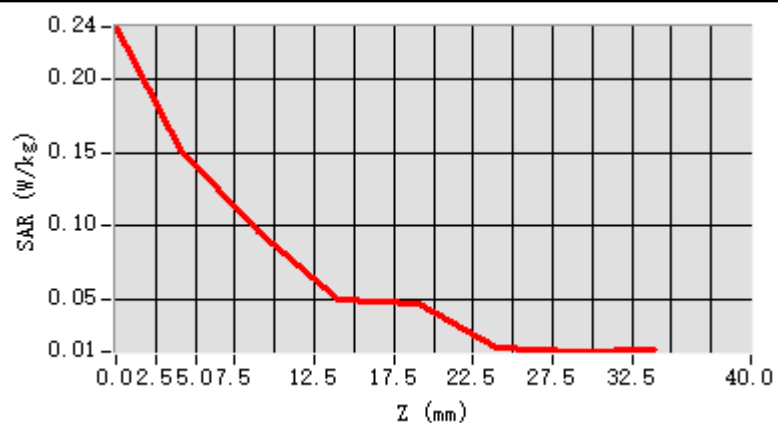
Maximum location: X=3.00, Y=20.00 ; SAR Peak: 0.26 W/kg

D. SAR 1g & 10g

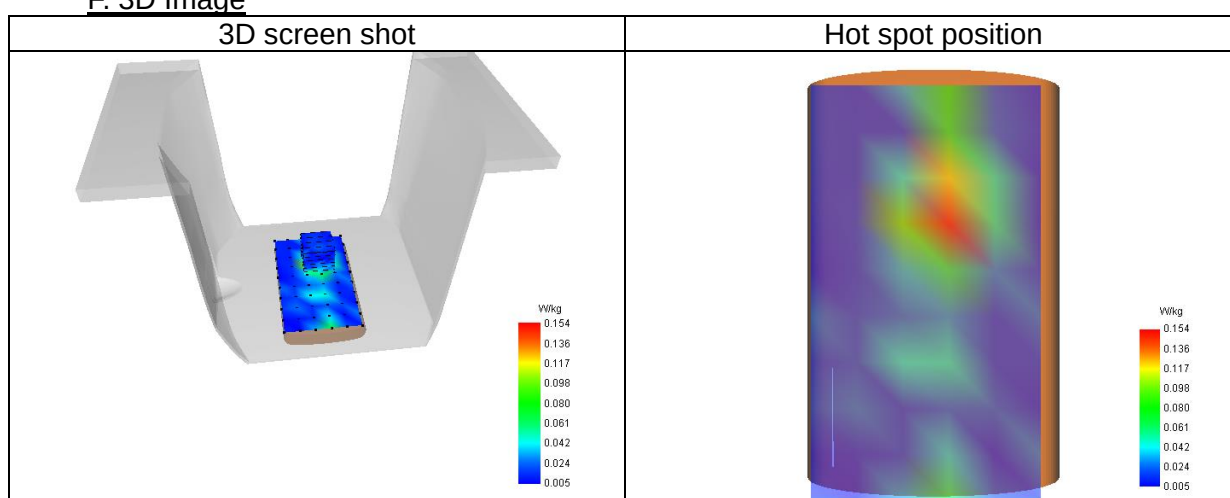
SAR 10g (W/Kg)	0.074
SAR 1g (W/Kg)	0.148
Variation (%)	-0.64
Horizontal validation criteria: minimum distance (mm)	16.00
Vertical validation criteria: SAR ratio M2/M1 (%)	63.14

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.236	0.153	0.096	0.050	0.047	0.017	0.015



F. 3D Image



18# SAR Measurement at LTE band 26A (Body, Validation Plane)

Date of measurement: 25/5/2025

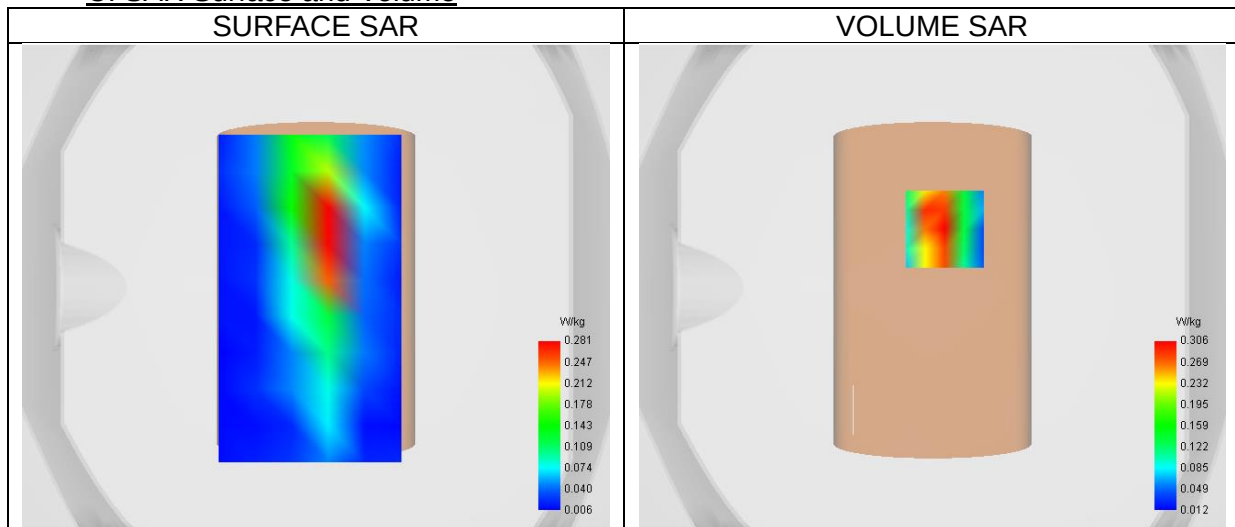
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.32
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 26A
Signal	LTE FDD
Channel Center [EARFCN] / Channel Center [MHz]	Middle (26740)/ frequency 819.00 Mhz
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
Middle TX Frequency (MHz)	819.00

B. Permittivity

Middle TX Frequency (MHz)	819.00
Relative permittivity (real part)	42.28
Relative permittivity (imaginary part)	19.81
Conductivity (S/m)	0.90

C. SAR Surface and Volume



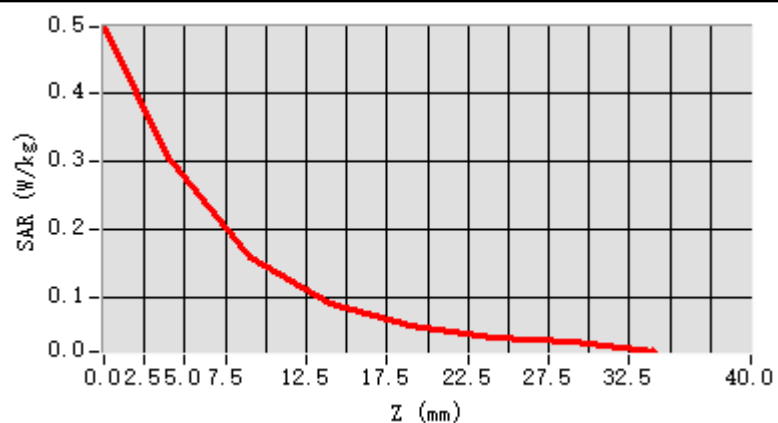
Maximum location: X=5.00, Y=24.00 ; SAR Peak: 0.56 W/kg

D. SAR 1g & 10g

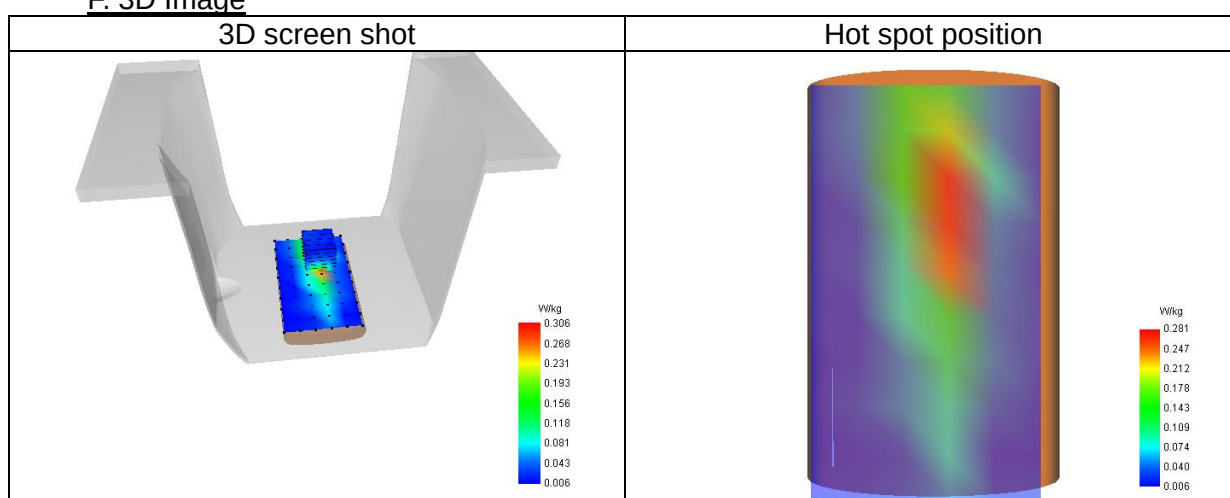
SAR 10g (W/Kg)	0.150
SAR 1g (W/Kg)	0.304
Variation (%)	-2.52
Horizontal validation criteria: minimum distance (mm)	8.00
Vertical validation criteria: SAR ratio M2/M1 (%)	52.38

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.498	0.306	0.160	0.093	0.059	0.043	0.037



F. 3D Image



19# SAR Measurement at LTE band 26B (Body, Validation Plane)

Date of measurement: 25/5/2025

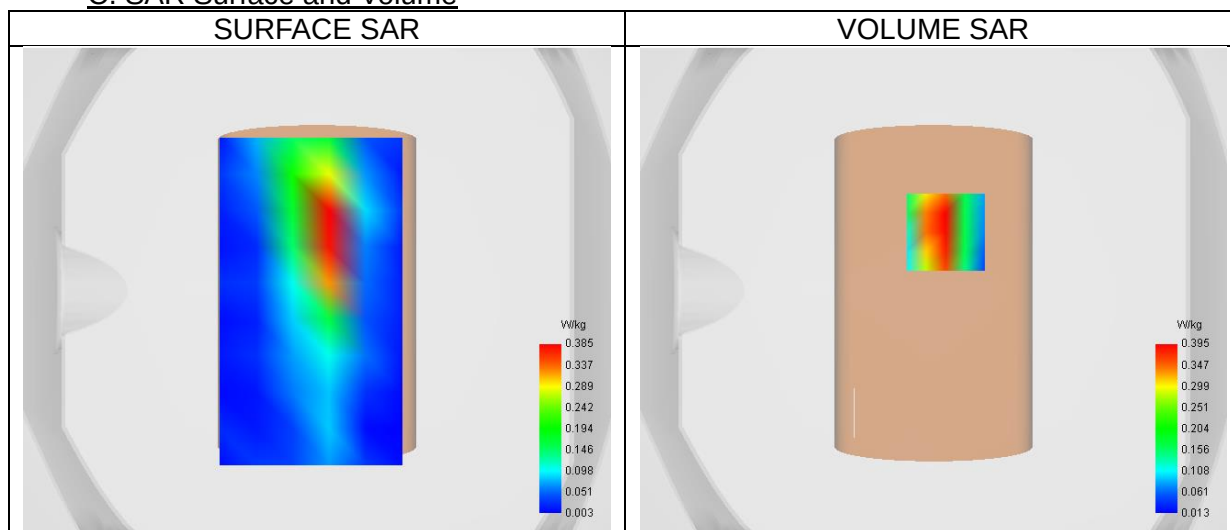
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.32
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 26B
Signal	LTE FDD
Channel Center [EARFCN] / Channel Center [MHz]	Middle (26865)/ frequency 831.50 Mhz
Cell Bandwidth	15 Mhz
Modulation	SC-OFDM - QPSK
Middle TX Frequency (MHz)	831.50

B. Permittivity

Middle TX Frequency (MHz)	831.50
Relative permittivity (real part)	42.07
Relative permittivity (imaginary part)	19.82
Conductivity (S/m)	0.92

C. SAR Surface and Volume



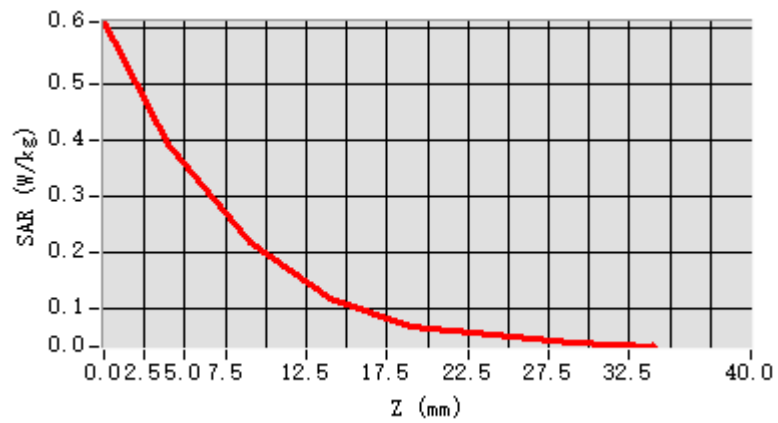
Maximum location: X=5.00, Y=24.00 ; SAR Peak: 0.71 W/kg

D. SAR 1g & 10g

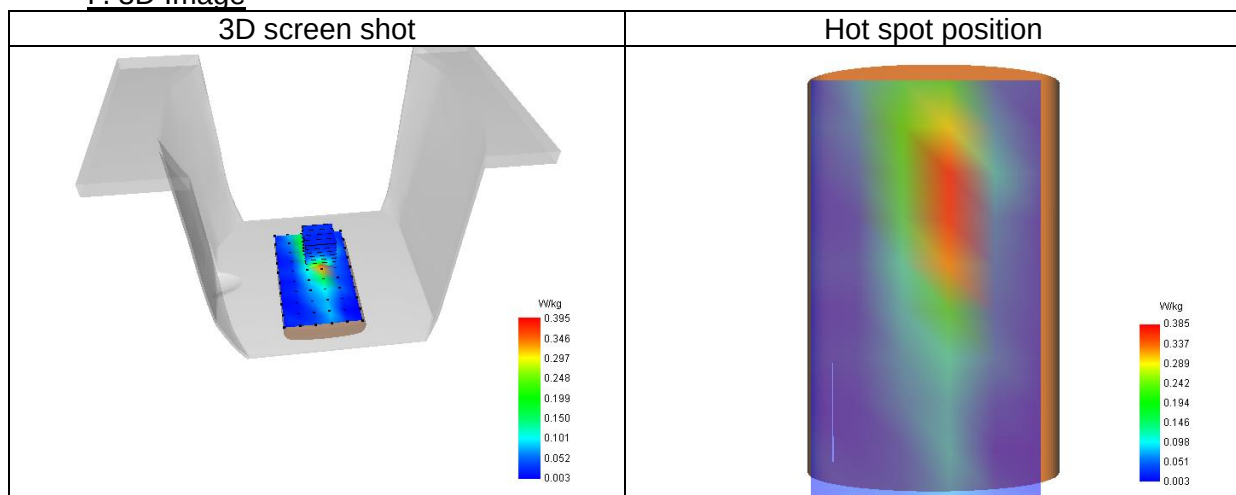
SAR 10g (W/Kg)	0.191
SAR 1g (W/Kg)	0.393
Variation (%)	-0.20
Horizontal validation criteria: minimum distance (mm)	8.00
Vertical validation criteria: SAR ratio M2/M1 (%)	55.28

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.610	0.395	0.218	0.119	0.067	0.053	0.041



F. 3D Image



20# SAR Measurement at LTE band 41 (Body, Validation Plane)

Date of measurement: 20/5/2025

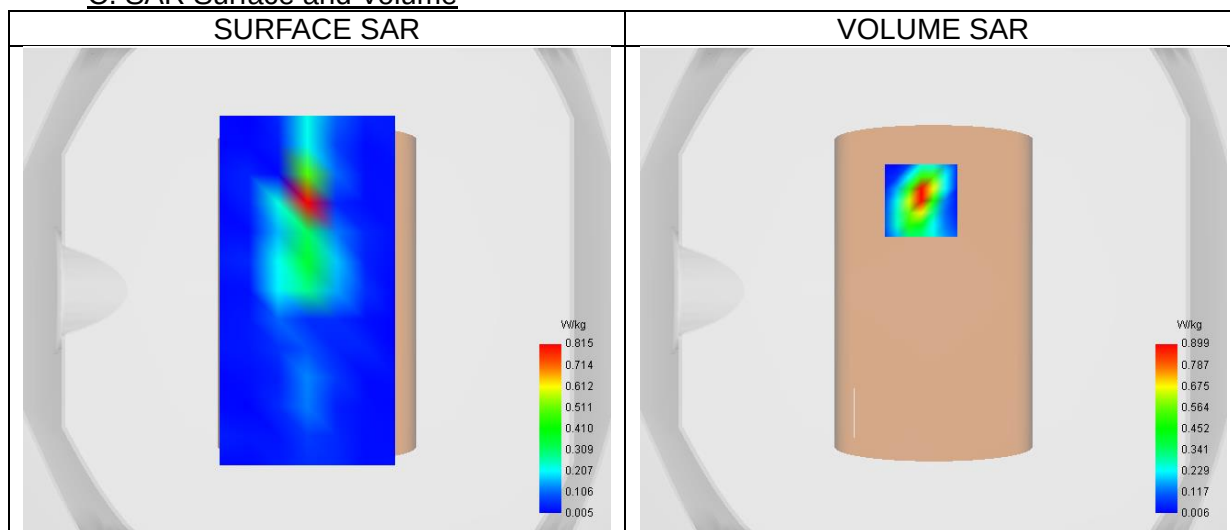
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.52
Area Scan	dx=12mm dy=12mm, Complete
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 41
Signal	LTE TDD
Channel Center [EARFCN] / Channel Center [MHz]	Middle (40620)/ frequency 2593.00 Mhz
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
Middle TX Frequency (MHz)	2593.00

B. Permittivity

Middle TX Frequency (MHz)	2593.00
Relative permittivity (real part)	39.24
Relative permittivity (imaginary part)	13.33
Conductivity (S/m)	1.92

C. SAR Surface and Volume



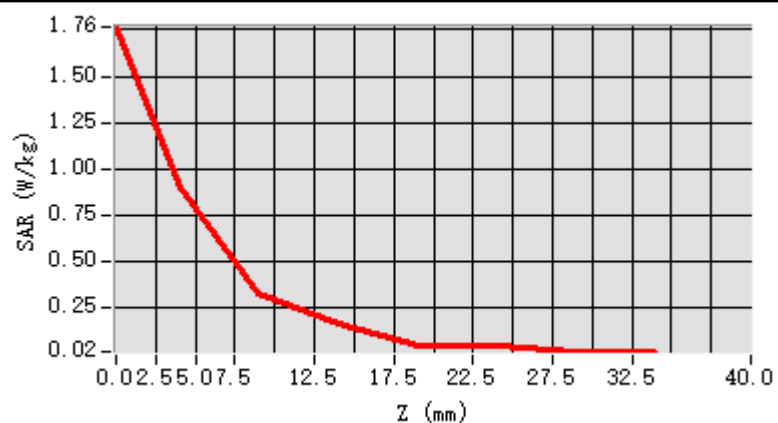
Maximum location: X=-5.00, Y=37.00 ; SAR Peak: 1.77 W/kg

D. SAR 1g & 10g

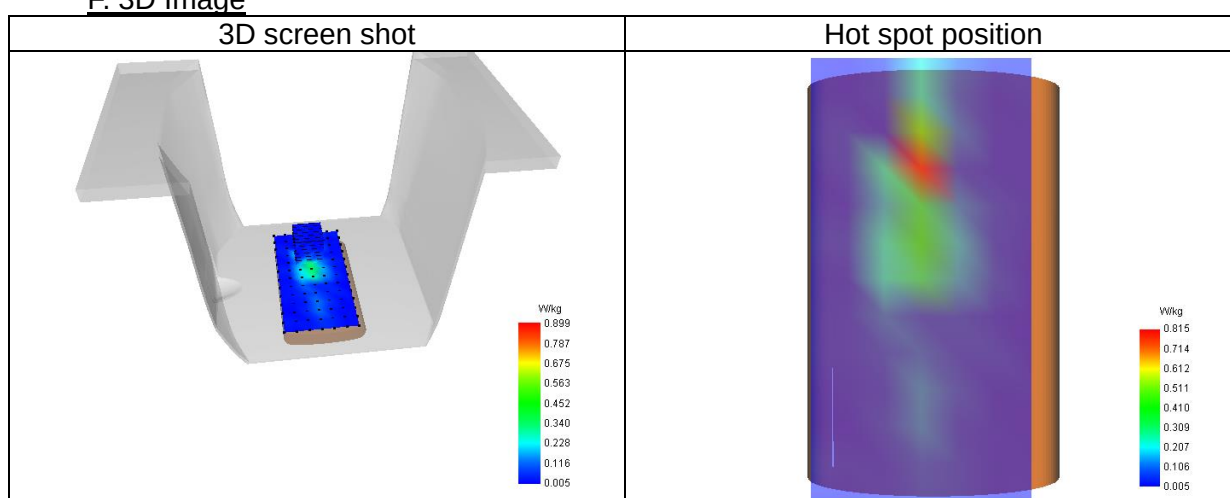
SAR 10g (W/Kg)	0.249
SAR 1g (W/Kg)	0.763
Variation (%)	-1.64
Horizontal validation criteria: minimum distance (mm)	7.07
Vertical validation criteria: SAR ratio M2/M1 (%)	42.17

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.764	0.899	0.326	0.164	0.055	0.045	0.019



F. 3D Image



21# SAR Measurement at LTE band 66 (Body, Validation Plane)

Date of measurement: 22/5/2025

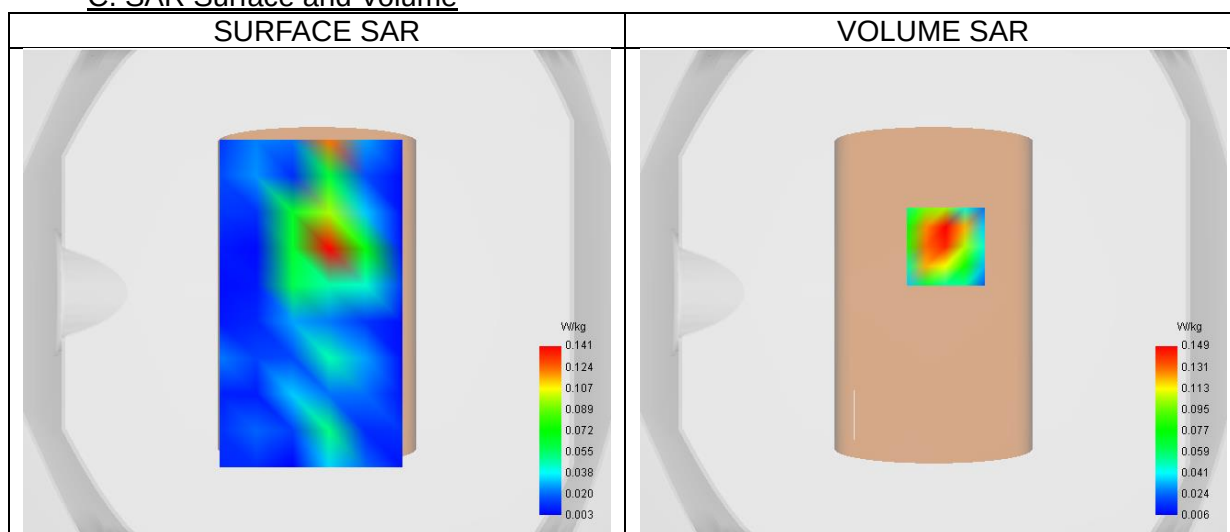
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.50
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 66
Signal	LTE FDD
Channel Center [EARFCN] / Channel Center [MHz]	Middle (132322)/ frequency 1745.00 Mhz
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
Middle TX Frequency (MHz)	1745.00

B. Permittivity

Middle TX Frequency (MHz)	1745.00
Relative permittivity (real part)	39.23
Relative permittivity (imaginary part)	13.73
Conductivity (S/m)	1.33

C. SAR Surface and Volume



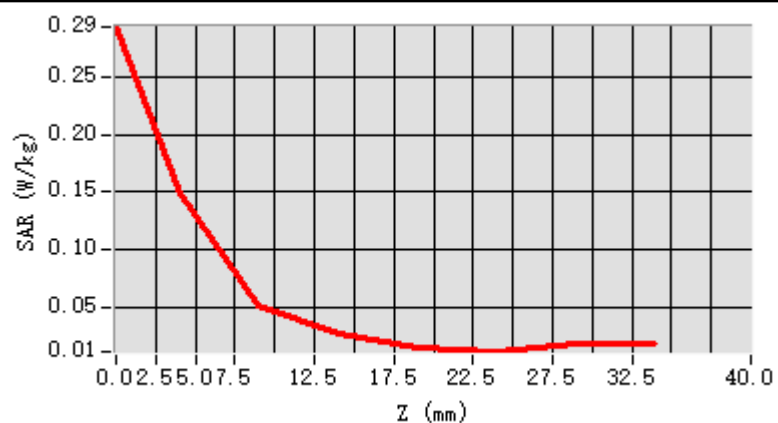
Maximum location: X=5.00, Y=19.00 ; SAR Peak: 0.30 W/kg

D. SAR 1g & 10g

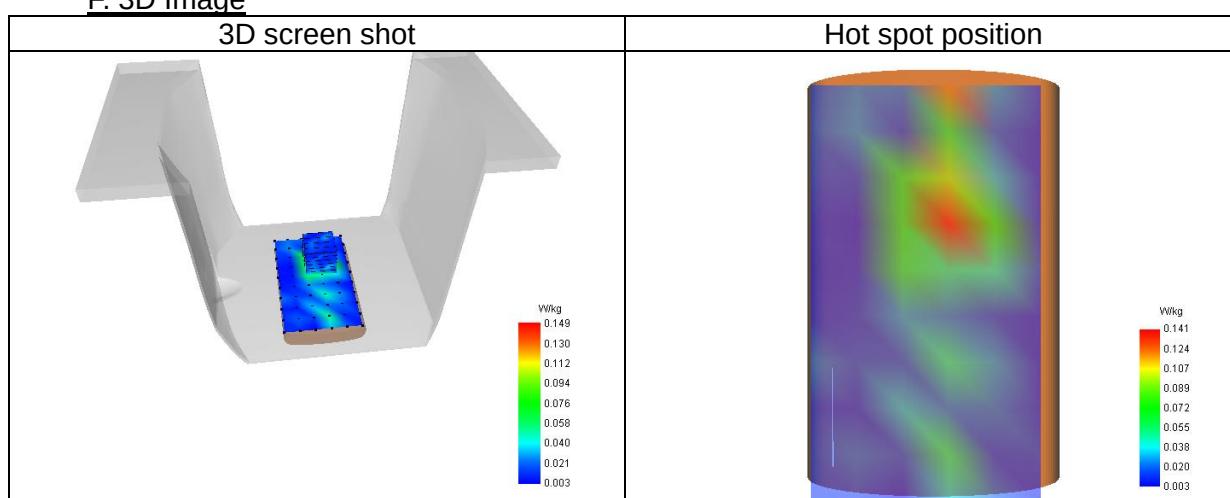
SAR 10g (W/Kg)	0.066
SAR 1g (W/Kg)	0.143
Variation (%)	3.88
Horizontal validation criteria: minimum distance (mm)	11.31
Vertical validation criteria: SAR ratio M2/M1 (%)	61.39

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.294	0.149	0.051	0.027	0.014	0.011	0.017



F. 3D Image



14. Appendix D. Calibration Certificate

Table of contents
E Field Probe - 4024-EPGO-448
750 MHz Dipole - SN 03/15 DIP 0G750-355
835 MHz Dipole - SN 03/15 DIP 0G835-347
1800 MHz Dipole - SN 03/15 DIP 1G800-349
1900 MHz Dipole - SN 03/15 DIP 1G900-350
2450 MHz Dipole - SN 03/15 DIP 2G450-352
2600 MHz Dipole - SN 03/15 DIP 2G600-356
5000-6000 MHz Dipole - SN 13/14 WGA 33

Docusign Envelope ID: 8D8CB647-C2B4-4414-A550-C6E3F74EB7AD



COMOSAR E-Field Probe Calibration Report

Ref : ACR.108.1.25.BES.A

SHENZHEN NTEK TESTING TECHNOLOGY CO., LTD.

BUILDING E, FENDA SCIENCE PARK, SANWEI
COMMUNITY, XIXIANG STREET,
BAO'AN DISTRICT, SHENZHEN GUANGDONG, CHINA
MVG COMOSAR DOSIMETRIC E-FIELD PROBE
SERIAL NO.: 0725-EPGO-448

Calibrated at MVG

Z.I. de la pointe du diable

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

Calibration date: 04/15/2025



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

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Summary:

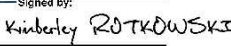
This document presents the method and results from an accredited COMOSAR Dosimetric E-Field Probe calibration performed at MVG, using the CALIPROBE test bench, for use with a MVG COMOSAR system only. The test results covered by accreditation are traceable to the International System of Units (SI).

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COMOSAR E-FIELD PROBE CALIBRATION REPORT

Ref: ACR.108.1.25.BES.A

	Name	Function	Date	Signature
Prepared by :	Pedro Ruiz	Technical Manager	4/18/2025	
Checked & approved by:	Pedro Ruiz	Technical Manager	4/18/2025	
Authorized by:	Kim Rutkowski	Quality Manager	4/23/2025	Signed by:  2B686547AD1743*...

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

Issue	Name	Date	Modifications
A	Pedro Ruiz	4/18/2025	Initial release

Docusign Envelope ID: 8D8CB647-C2B4-4414-A550-C6E3F74EB7AD



COMOSAR E-FIELD PROBE CALIBRATION REPORT

Ref: ACR.108.1.25.BES.A

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COMOSAR E-FIELD PROBE CALIBRATION REPORT

Ref: ACR.108.1.25.BES.A

1 DEVICE UNDER TEST

Device Under Test	
Device Type	COMOSAR DOSIMETRIC E FIELD PROBE
Manufacturer	MVG
Model	SSE2
Serial Number	0725-EPGO-448
Product Condition (new / used)	New
Frequency Range of Probe	0.15 GHz-7.5GHz
Resistance of Three Dipoles at Connector	Dipole 1: R1=0.191 MΩ Dipole 2: R2=0.212 MΩ Dipole 3: R3=0.208 MΩ

2 PRODUCT DESCRIPTION**2.1 GENERAL INFORMATION**

MVG's COMOSAR E field Probes are built in accordance to the IEC/IEEE 62209-1528 and FCC KDB865664 D01 standards.

**Figure 1 – MVG COMOSAR Dosimetric E field Probe**

Probe Length	330 mm
Length of Individual Dipoles	2 mm
Maximum external diameter	8 mm
Probe Tip External Diameter	2.5 mm
Distance between dipoles / probe extremity	1 mm

3 MEASUREMENT METHOD

The IEC/IEEE 62209-1528 and FCC KDB865664 D01 standards provide recommended practices for the probe calibrations, including the performance characteristics of interest and methods by which to assess their effect. All calibrations / measurements performed meet the fore-mentioned standards.

3.1 SENSITIVITY

The sensitivity factors of the three dipoles were determined using a two step calibration method (air and tissue simulating liquid) using waveguides as outlined in the standards for frequency range 600-7500MHz and using the calorimeter cell method (transfer method) as outlined in the standards for frequency 150-450 MHz.

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3.2 LINEARITY

The evaluation of the linearity was done in free space using the waveguide, performing a power sweep to cover the SAR range 0.01 W/kg to 100 W/kg.

3.3 ISOTROPY

The axial isotropy was evaluated by exposing the probe to a reference wave from a standard dipole with the dipole mounted under the flat phantom in the test configuration suggested for system validations and checks. The probe was rotated along its main axis from 0 to 360 degrees in 15-degree steps. The hemispherical isotropy is determined by inserting the probe in a thin plastic box filled with tissue-equivalent liquid, with the plastic box illuminated with the fields from a half wave dipole. The dipole is rotated about its axis (0°–180°) in 15° increments. At each step the probe is rotated about its axis (0°–360°).

3.4 BOUNDARY EFFECT

The boundary effect is defined as the deviation between the SAR measured data and the expected exponential decay in the liquid when the probe is oriented normal to the interface. To evaluate this effect, the liquid filled flat phantom is exposed to fields from either a reference dipole or waveguide. With the probe normal to the phantom surface, the peak spatial average SAR is measured and compared to the analytical value at the surface.

The boundary effect uncertainty can be estimated according to the following uncertainty approximation formula based on linear and exponential extrapolations between the surface and $d_{be} + d_{step}$ along lines that are approximately normal to the surface:

$$SAR_{uncertainty} [\%] = \delta SAR_{be} \frac{(d_{be} + d_{step})^2}{2d_{step}} \frac{(e^{-d_{be}/\delta} - e^{-d_{step}/\delta})}{\delta/2} \quad \text{for } (d_{be} + d_{step}) < 10 \text{ mm}$$

where

$SAR_{uncertainty}$	is the uncertainty in percent of the probe boundary effect
d_{be}	is the distance between the surface and the closest <i>zoom-scan</i> measurement point, in millimetre
Δ_{step}	is the separation distance between the first and second measurement points that are closest to the phantom surface, in millimetre, assuming the boundary effect at the second location is negligible
δ	is the minimum penetration depth in millimetres of the head tissue-equivalent liquids defined in this standard, i.e., $\delta \approx 14$ mm at 3 GHz;
ΔSAR_{be}	in percent of SAR is the deviation between the measured SAR value, at the distance d_{be} from the boundary, and the analytical SAR value.

The measured worst case boundary effect $SAR_{uncertainty}[\%]$ for scanning distances larger than 4mm is 1.0% Limit ,2%).