



SAR Test Report

Report No.: STS2605102H01

Issued for

Quanzhou UNIKOO Electronic Technology Co., Ltd.

B1604, Building2, Xiamei Jiayuan Xiamei Town, Nan'an City
Quanzhou, Fujian CHINA

Product Name: 4G Poc Radio

Brand Name: N/A

Model Name: N180

Series Model(s): N188,N166,PN100,PN110,PN120,P10,P11,P12,FP200,FP210,FP220,MP218,MP228,MP238,DP160,DP168,DP166,SK250,S
K240,SK230,RC200,RC208,RC218,C18,C19,C17,HK200,HK266,HK288

FCC ID: 2BQXTP360N

Test Standard: ANSI/IEEE Std. C95.1
FCC 47 CFR Part 2 (2.1093)
IEEE Std. 1528-2013

Max. Report Face up: 0.398 W/kg

SAR (1g) Back Side: 0.583 W/kg

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services

Co., Ltd.

TEST REPORT CERTIFICATION**Applicant's name**.....: Quanzhou UNIKOO Electronic Technology Co., Ltd.Address.....: B1604, Building2, Xiamei Jiayuan Xiamei Town, Nan'an City
Quanzhou, Fujian CHINA**Manufacturer's Name**.....: Quanzhou UNIKOO Electronic Technology Co., Ltd.Address.....: B1604, Building2, Xiamei Jiayuan Xiamei Town, Nan'an City
Quanzhou, Fujian CHINA**Product description**

Product name.....: 4G Poc Radio

Brand name: N/A

Model name: N180

Series Model.....: N188,N166,PN100,PN110,PN120,P10,P11,P12,
FP200,FP210,FP220,MP218,MP228,MP238,DP
160,DP168,DP166,SK250,SK240,SK230,RC200
,RC208,RC218,C18,C19,C17,HK200,HK266,HK288
ANSI/IEEE Std. C95.1**Standards**.....: FCC 47 CFR Part 2 (2.1093)
IEEE Std. 1528-2013

The device was tested by Shenzhen STS Test Services Co., Ltd. in accordance with the measurement methods and procedures specified in KDB 865664 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.

Date of Test.....:

Date (s) of performance of tests.....: 17 May.2026~18 May.2026

Date of Issue.....: 28 May.2026

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

Testing Engineer : _____

Xin Liu

(Xin.Liu)

Technical Manager : _____

Eric Zhou

(Eric Zhou)

Authorized Signatory : _____

Doreen Yoney



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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	28 May.2026	STS2605102H01	ALL	Initial Issue

1. General Information

Environmental evaluation measurements of specific absorption rate (SAR) distributions in emulated human head and body tissues exposed to radio frequency (RF) radiation from wireless portable devices for compliance with the rules and regulations of the U.S. Federal Communications Commission (FCC).

1.1 EUT Description

Product Name	4G Poc Radio			
Brand Name	N/A			
Model Name	N180			
Series Model	N188,N166,PN100,PN110,PN120,P10,P11,P12,FP200,FP210,FP220,MP218,MP228,MP238,DP160,DP168,DP166,SK250,SK240,SK230,RC200,RC208,RC218,C18,C19,C17,HK200,HK266,HK288			
Model Difference	Identical electrical specifications and PCB boards, differing only in model name, trademark, outer plastic shell and button placement.			
Battery	Model: PB100 Brand: N/A Rated Voltage: 3.7 V Charge Limit Voltage:4.2V Capacity:1450mAh			
Sample number	260518015-1			
Device Category	Portable			
Product stage	Production unit			
RF Exposure Environment	General Population / Uncontrolled			
Hardware Version	V1.0			
Software Version	V1.0			
Frequency Range	LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7:2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 40: 2305 MHz ~ 2315 MHz / 2350 MHz ~ 2360 MHz LTE Band 41: 2496 MHz-2690MHz LTE Band 66: 1710 MHz ~ 1780 MHz			
Max. Reported SAR(1g): (Limit:1.6W/kg) Test distance: Face up:25mm Body:0mm	Band	Mode	Face up (W/kg)	Back Side (W/kg)
	PCF	LTE Band 2	0.158	0.583
	PCF	LTE Band 4	0.336	0.519
	PCF	LTE Band 5	0.398	0.261
	PCF	LTE Band 7	0.084	0.174
	PCF	LTE Band 12	0.362	0.216
	PCF	LTE Band 13	0.338	0.242
	PCF	LTE Band 17	0.198	0.218
	PCF	LTE Band 38	0.039	0.061
	PCF	LTE Band 40	0.066	0.059
	PCF	LTE Band 41	0.038	0.062
	PCF	LTE Band 66	0.287	0.450

FCC Equipment Class	Licensed Transmitter (PCF)
Operating Mode:	LTE: QPSK, 16QAM
Antenna Specification:	LTE: PIFA Antenna
SIM Card	Single SIM operation only
Hotspot Mode	Not Support
DTM Mode	Not Support
Note: 1. The EUT battery must be fully charged and checked periodically during the test to ascertain uniform power	

1.2 Test Environment

Ambient conditions in the SAR laboratory:

Items	Required
Temperature (°C)	18-25
Humidity (%RH)	30-70

1.3 Test Factory

ShenZhen STS Test Services Co.,Ltd.

A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration No.: 625569

IC Registration No.: 12108A

A2LA Certificate No.: 4338.01

2. Test Standards and Limits

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	IEEE Std C95.1, 2019	IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz. It specifies the maximum exposure limit of 1.6 W/kg as averaged over any 1 gram of tissue for portable devices being used within 20 cm of the user in the uncontrolled environment.
3	IEEE Std. 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
4	FCC KDB 447498 D01 v06	RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices
5	FCC KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
6	FCC KDB 865664 D02 v01r02	RF Exposure Reporting
7	FCC KDB 941225 D05 v02r05	SAR for LTE Devices
8	FCC KDB 648474 D04 v01r03	SAR Evaluation Considerations for Wireless Handsets

(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.

Population/Uncontrolled Environments:

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

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).

NOTE

GENERAL POPULATION/UNCONTROLLED EXPOSURE

PARTIAL BODY LIMIT

1.6 W/kg

3. SAR Measurement System

3.1 Definition of Specific Absorption Rate (SAR)

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

$$SAR = \frac{d}{dt} \left(\frac{dW}{dm} \right) = \frac{d}{dt} \left(\frac{dW}{\rho dv} \right)$$

SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be related to the electrical field in the tissue by

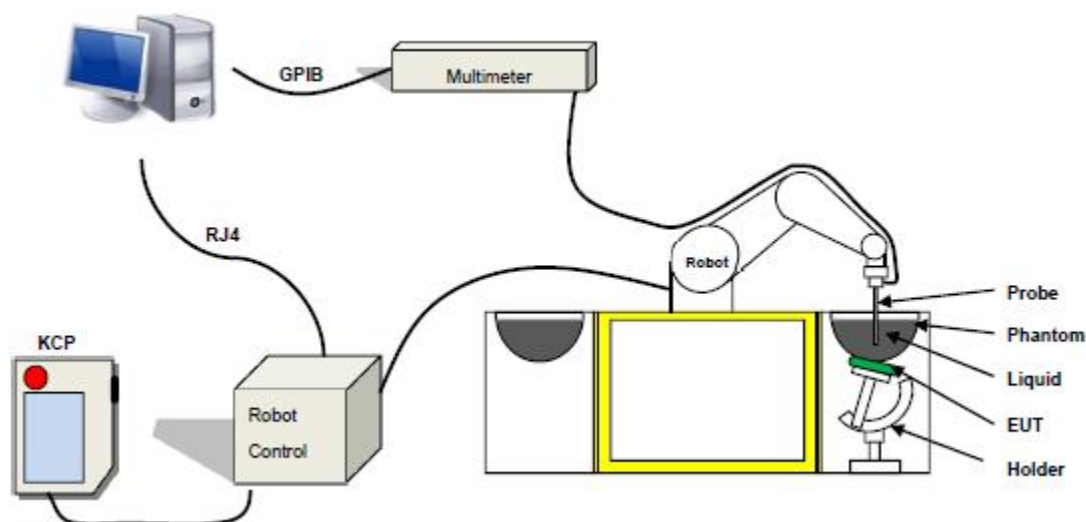
$$SAR = \frac{\sigma E^2}{\rho}$$

Where: σ is the conductivity of the tissue,

ρ is the mass density of the tissue and E is the RMS electrical field strength.

3.2 SAR System

MVG SAR System Diagram:



COMOSAR is a system that is able to determine the SAR distribution inside a phantom of human being according to different standards. The COMOSAR system consists of the following items:

- Main computer to control all the system
- 6 axis robot
- Data acquisition system
- Miniature E-field probe
- Phone holder
- Head simulating tissue

The following figure shows the system.



The EUT under test operating at the maximum power level is placed in the phone holder, under the phantom, which is filled with head simulating liquid. The E-Field probe measures the electric field inside the phantom. The Open SAR software computes the results to give a SAR value in a 1g or 10g mass.

3.2.1 Probe

For the measurements the Specific Dosimetric E-Field Probe SN 08/21 EPGO352 with following specifications is used

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



Figure 1-MVG COMOSAR Dosimetric E field Dipole

3.2.2 Phantom

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

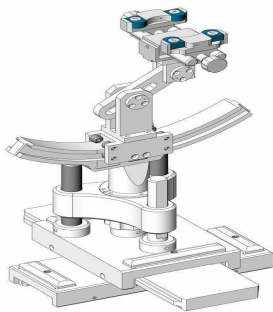
SN 32/14 SAM115



Figure-SN 21/21 ELLI48



3.2.3 Device Holder



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

4. Tissue Simulating Liquids

4.1 Simulating Liquids Parameter Check

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 uncertainty due to the liquid conductivity and permittivity arises from two different sources. The first source of error is the deviation of the liquid conductivity from its target value (max _ 5 %) and the second source of error arises from the measurement procedures used to assess conductivity. The uncertainty shall be assessed using a rectangular probability For 1 g averaging, the maximum weighting coefficient for SAR is 0,5.

The head tissue dielectric parameters recommended by the IEEE 62209-1528 have been incorporated in the following table.

Frequency	ϵ_r	σ 10g S/m
300	45.3	0.87
450	43.5	0.87
750	41.9	0.89
835	41.5	0.90
900	41.5	0.97
1450	40.5	1.20
1800 to 2000	40.0	1.40
2100	39.8	1.49
2450	39.2	1.80
2600	39.0	1.96
3000	38.5	2.40
3500	37.9	2.91
4000	37.4	3.43
4500	36.8	3.94
5000	36.2	4.45
5200	36.0	4.66
5400	35.8	4.86
5600	35.5	5.07
5800	35.3	5.27

The following table gives the recipes for tissue simulating liquid and the theoretical Conductivity/Permittivity.

Head (Reference IEEE1528)								
Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity σ (S/m)	Permittivity ϵ
750	41.1	57.0	0.2	1.4	0.2	0	0.89	41.9
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5
900	40.3	57.9	0.2	1.4	0.2	0	0.97	41.5
1800, 1900, 2000	55.2	0	0	0.3	0	44.5	1.4	40.0
2450	55.0	0	0	0.1	0	44.9	1.80	39.2
2600	54.9	0	0	0.1	0	45.0	1.96	39.0
Frequency (MHz)	Water (%)	Hexyl Carbitol (%)			Triton X-100 (%)		Conductivity σ (S/m)	Permittivity ϵ
5200	62.52	17.24			17.24		4.66	36.0
5800	62.52	17.24			17.24		5.27	35.3
Body (From instrument manufacturer)								
Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity σ (S/m)	Permittivity ϵ
750	51.7	47.2	0	0.9	0.1	0	0.96	55.5
835	50.8	48.2	0	0.9	0.1	0	0.97	55.2
900	50.8	48.2	0	0.9	0.1	0	1.05	55.0
1800, 1900, 2000	70.2	0	0	0.4	0	29.4	1.52	53.3
2450	68.6	0	0	0.1	0	31.3	1.95	52.7
2600	68.2	0	0	0.1	0	31.7	2.16	52.5
Frequency(MHz)	Water	DGBE (%)			Salt (%)		Conductivity σ (S/m)	Permittivity ϵ
5200	78.60	21.40			/		5.30	49.00
5800	78.50	21.40			0.1		6.00	48.20

LIQUID MEASUREMENT RESULTS

Date	Ambient		Simulating Liquid		Parameters	Target	Measured	Deviation %	Limited %
	Temp. [°C]	Humidity %	Frequency (MHz)	Temp. [°C]					
2026-05-17	23.9	56	707.5	23.6	Permittivity	42.13	43.26	2.69	±5
					Conductivity	0.89	0.90	1.45	±5
2026-05-17	23.9	56	711	23.6	Permittivity	42.11	42.20	0.22	±5
					Conductivity	0.89	0.89	0.29	±5
2026-05-17	23.9	56	750	23.6	Permittivity	41.90	42.52	1.48	±5
					Conductivity	0.89	0.90	1.12	±5
2026-05-17	23.9	56	782	23.6	Permittivity	41.73	42.63	2.16	±5
					Conductivity	0.89	0.89	-0.24	±5
2026-05-17	23.9	56	829	23.6	Permittivity	41.53	41.42	-0.26	±5
					Conductivity	0.90	0.91	1.19	±5
2026-05-17	23.9	56	835	23.6	Permittivity	41.50	41.66	0.39	±5
					Conductivity	0.90	0.91	1.11	±5
2026-05-17	23.9	56	1720	23.6	Permittivity	40.11	40.25	0.34	±5
					Conductivity	1.35	1.34	-1.05	±5
2026-05-17	23.9	56	1732.5	23.6	Permittivity	40.10	40.66	1.41	±5
					Conductivity	1.36	1.34	-1.57	±5
2026-05-17	23.9	56	1745	23.6	Permittivity	40.08	40.70	1.55	±5
					Conductivity	1.37	1.39	1.57	±5
2026-05-17	23.9	56	1745	23.6	Permittivity	40.08	40.15	0.18	±5
					Conductivity	1.37	1.40	2.30	±5
2026-05-17	23.9	56	1800	23.6	Permittivity	40.00	40.02	0.05	±5
					Conductivity	1.40	1.39	-0.71	±5
2026-05-18	22.5	47	1860	22.1	Permittivity	40.00	40.65	1.63	±5
					Conductivity	1.40	1.37	-2.14	±5
2026-05-18	22.6	47	1880	22.3	Permittivity	40.00	40.08	0.20	±5
					Conductivity	1.40	1.39	-0.71	±5
2026-05-18	22.6	47	1890	22.3	Permittivity	40.00	40.90	2.25	±5
					Conductivity	1.40	1.42	1.43	±5
2026-05-18	22.6	47	1900	22.3	Permittivity	40.00	40.77	1.93	±5
					Conductivity	1.40	1.38	-1.43	±5
2026-05-18	22.6	47	2000	22.3	Permittivity	40.00	40.29	0.72	±5
					Conductivity	1.40	1.42	1.43	±5
2026-05-18	22.6	47	2350	22.3	Permittivity	39.38	39.40	0.06	±5
					Conductivity	1.71	1.73	1.10	±5

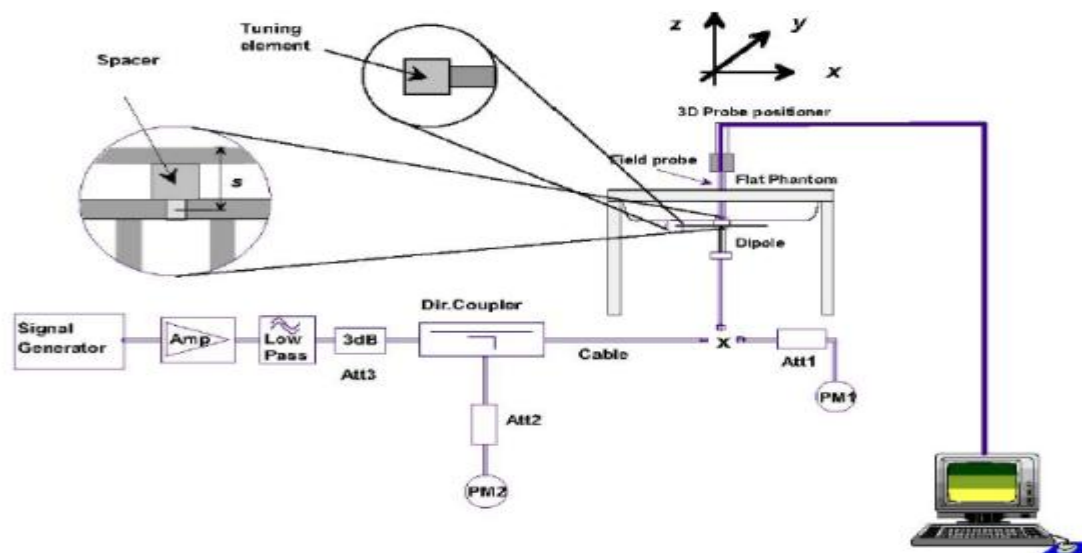
2026-05-18	22.6	47	2450	22.3	Permittivity	39.20	39.14	-0.15	±5
					Conductivity	1.80	1.78	-1.11	±5
2026-05-18	22.6	47	2506	22.3	Permittivity	39.13	39.05	-0.19	±5
					Conductivity	1.86	1.86	0.01	±5
2026-05-18	22.6	47	2535	22.3	Permittivity	39.09	39.22	0.34	±5
					Conductivity	1.89	1.88	-0.56	±5
2026-05-18	22.6	47	2580	22.3	Permittivity	39.03	38.68	-0.89	±5
					Conductivity	1.94	1.95	0.58	±5
2026-05-18	22.6	47	2600	22.3	Permittivity	39.00	39.41	1.05	±5
					Conductivity	1.96	1.91	-2.55	±5

5. SAR System Validation

5.1 Validation System

Each MVG system is equipped with one or more system validation kits. These units, together with the predefined measurement procedures within the MVG software, enable the user to conduct the system performance check and system validation. System kit includes a dipole, and dipole device holder.

The system check verifies that the system operates within its specifications. It's performed daily or before every SAR measurement. The system check uses normal SAR measurement in the flat section of the phantom with a matched dipole at a specified distance. The system validation setup is shown as below.



5.2 Validation Result

Date	Frequency (MHz)	Power	SAR _{1g} (W/Kg)	SAR _{10g} (W/Kg)	Drift (%)	1W Target		Difference percentage		Limited %
						SAR _{1g} (W/Kg)	SAR _{10g} (W/Kg)	1g	10g	
2026-05-17	750	100 mW	0.855	0.556	0.32	8.49	5.53	0.71%	0.54%	10
		Normalize to 1 Watt	8.55	5.56						
2026-05-17	835	100 mW	0.967	0.577	0.65	9.63	6.15	0.42%	-6.18%	10
		Normalize to 1 Watt	9.67	5.77						
2026-05-17	1800	100 mW	3.774	2.018	-0.23	37.95	20.49	-0.55%	-1.51%	10
		Normalize to 1 Watt	37.74	20.18						
2026-05-18	1900	100 mW	4.031	2.031	-1.30	39.84	20.20	1.18%	0.54%	10
		Normalize to 1 Watt	40.31	20.31						
2026-05-18	2450	100 mW	5.502	2.417	-1.54	54.70	24.11	0.59%	0.25%	10
		Normalize to 1 Watt	55.02	24.17						
2026-05-18	2600	100 mW	5.587	2.404	0.64	56.19	24.08	-0.57%	-0.17%	10
		Normalize to 1 Watt	55.87	24.04						

Note:

(1) We use a CW signal of 20dBm(750/835/1800/1900/2450/2600MHz) and 10dBm(5000-6000MHz) for system check, and then all SAR values are normalized to 1W forward power. The result must be within $\pm 10\%$ of target value.

6. SAR Evaluation Procedures

The procedure for assessing the average SAR value consists of the following steps:

The following steps are used for each test position

- Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
- Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- Measurement of the SAR distribution with a grid of 8 to 16mm * 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.

➤ Area Scan& Zoom Scan

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g. Area scan and zoom scan resolution setting follows KDB 865664 D01 quoted below. When the 1-g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.

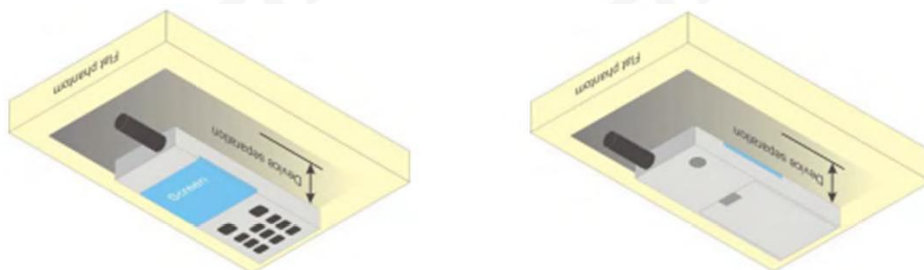
7. EUT Test Position

This EUT was tested in Face up, Back Side.

7.1 Body-worn Position Conditions

Body-worn Position Conditions:

Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in KDB Publication 447498 D01 v06 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. When the same wireless transmission configuration is used for testing body-worn accessory and hotspot mode SAR, respectively, in voice and data mode, SAR results for the most conservative *test separation distance* configuration may be used to support both SAR conditions. When the *reported* SAR for a body-worn accessory, measured without a headset connected to the handset, is $> 1.2 \text{ W/kg}$, the highest *reported* SAR configuration for that wireless mode and frequency band should be repeated for the body-worn accessory with a headset attached to the handset.



8. Uncertainty

8.1 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in IEEE 1528: 2013. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

SATIMO Uncertainty- SN 08/21 EPGO352									
Measurement uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+/- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+- %)	10g Ui (+-%)	vi
Measurement System									
Probe calibration	E.2.1	5.72	N	1.00	1.00	1.00	5.72	5.72	∞
Axial Isotropy	E.2.2	0.18	R	1.73	0.71	0.71	0.07	0.07	∞
Hemispherical Isotropy	E.2.2	1.04	R	1.73	0.71	0.71	0.42	0.42	∞
Boundary effect	E.2.3	0.80	R	1.73	1.00	1.00	0.46	0.46	∞
Linearity	E.2.4	1.25	R	1.73	1.00	1.00	0.72	0.72	∞
System detection limits	E.2.4	1.20	R	1.73	1.00	1.00	0.69	0.69	∞
Modulation response	E.2.5	3.42	R	1.73	1.00	1.00	1.97	1.97	∞
Readout Electronics	E.2.6	0.26	N	1.00	1.00	1.00	0.26	0.26	∞
Response Time	E.2.7	0.17	R	1.73	1.00	1.00	0.10	0.10	∞
Integration Time	E.2.8	1.43	R	1.73	1.00	1.00	0.83	0.83	∞
RF ambient conditions-Noise	E.6.1	3.51	R	1.73	1.00	1.00	2.03	2.03	∞
RF ambient conditions- reflections	E.6.1	3.15	R	1.73	1.00	1.00	1.82	1.82	∞
Probe positioner mechanical tolerance	E.6.2	1.20	R	1.73	1.00	1.00	0.69	0.69	∞
Probe positioning with respect to phantom shell	E.6.3	1.40	R	1.73	1.00	1.00	0.81	0.81	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.10	R	1.73	1.00	1.00	1.21	1.21	∞
Test sample Related									
Test sample positioning	E.4.2	3.10	N	1.00	1.00	1.00	3.10	3.10	∞
Device holder uncertainty	E.4.1	3.80	N	1.00	1.00	1.00	3.80	3.80	∞
Output power variation—SAR drift measurement	E.2.9	4.50	R	1.73	1.00	1.00	2.60	2.60	∞
SAR scaling	E.6.5	1.80	R	1.73	1.00	1.00	1.04	1.04	∞
Phantom and tissue parameters									
Phantom shell uncertainty— shape, thickness, and permittivity	E.3.1	3.70	R	1.73	1.00	1.00	2.14	2.14	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.90	N	1.00	1.00	0.84	1.90	1.60	∞
Liquid conductivity measurement	E.3.3	2.40	R	1.73	0.78	0.71	1.08	0.98	M
Liquid permittivity measurement	E.3.3	4.10	N	1.00	0.78	0.71	3.20	2.91	M
Liquid conductivity—temperature uncertainty	E.3.4	2.70	R	1.73	0.23	0.26	0.36	0.41	∞
Liquid permittivity—temperature uncertainty	E.3.4	4.80	N	1.00	0.23	0.26	1.10	1.25	∞
Combined Standard Uncertainty			RSS				10.08	9.59	
Expanded Uncertainty (95% Confidence interval)			K=2				19.58	19.18	

System Validation uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+-%)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System									
Probe calibration	E.2.1	5.72	N	1.00	1.00	1.00	5.72	5.72	∞
Axial Isotropy	E.2.2	0.18	R	1.73	1.00	1.00	0.10	0.10	∞
Hemispherical Isotropy	E.2.2	1.04	R	1.73	0.00	0.00	0.00	0.00	∞
Boundary effect	E.2.3	0.80	R	1.73	1.00	1.00	0.46	0.46	∞
Linearity	E.2.4	1.25	R	1.73	1.00	1.00	0.72	0.72	∞
System detection limits	E.2.4	1.20	R	1.73	1.00	1.00	0.69	0.69	∞
Modulation response	E.2.5	3.42	R	1.73	0.00	0.00	0.00	0.00	∞
Readout Electronics	E.2.6	0.26	N	1.00	1.00	1.00	0.26	0.26	∞
Response Time	E.2.7	0.17	R	1.73	0.00	0.00	0.00	0.00	∞
Integration Time	E.2.8	1.43	R	1.73	0.00	0.00	0.00	0.00	∞
RF ambient conditions-Noise	E.6.1	3.51	R	1.73	1.00	1.00	2.03	2.03	∞
RF ambient conditions-reflections	E.6.1	3.15	R	1.73	1.00	1.00	1.82	1.82	∞
Probe positioner mechanical tolerance	E.6.2	1.20	R	1.73	1.00	1.00	0.69	0.69	∞
Probe positioning with respect to phantom shell	E.6.3	1.40	R	1.73	1.00	1.00	0.81	0.81	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.10	R	1.73	1.00	1.00	1.21	1.21	∞
System validation source									
Deviation of experimental dipole from numerical dipole	E.6.4	4.80	N	1.00	1.00	1.00	4.80	4.80	∞
Input power and SAR drift measurement	8,6.6.4	5.10	R	1.73	1.00	1.00	2.94	2.94	∞
Dipole axis to liquid distance	8,E.6.6	2.40	R	1.73	1.00	1.00	1.39	1.39	∞
Phantom and set-up									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	3.70	R	1.73	1.00	1.00	2.14	2.14	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.90	N	1.00	1.00	0.84	1.90	1.60	∞
Liquid conductivity (temperature uncertainty)	E.3.3	2.40	R	1.73	0.78	0.71	1.08	0.98	∞
Liquid conductivity (measured)	E.3.3	4.10	N	1.00	0.78	0.71	3.20	2.91	M
Liquid permittivity (temperature uncertainty)	E.3.4	2.70	R	1.73	0.23	0.26	0.36	0.41	∞
Liquid permittivity (measured)	E.3.4	4.80	N	1.00	0.23	0.26	1.10	1.25	M
Combined Standard Uncertainty			RSS				9.72	9.52	
Expanded Uncertainty (95% Confidence interval)			K=2				19.44	19.03	

SATIMO Uncertainty- SN 08/21 EPGO352									
。 System Check uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
		(+- %)							
Measurement System									
Probe calibration drift	E.2.1.3	5.72	N	1.00	1.00	1.00	5.72	5.72	∞
Axial Isotropy	E.2.2	0.18	R	1.73	0.00	0.00	0.00	0.00	∞
Hemispherical Isotropy	E.2.2	1.04	R	1.73	0.00	0.00	0.00	0.00	∞
Boundary effect	E.2.3	0.8	R	1.73	0.00	0.00	0.00	0.00	∞
Linearity	E.2.4	1.25	R	1.73	0.00	0.00	0.00	0.00	∞
System detection limits	E.2.4	1.20	R	1.73	0.00	0.00	0.00	0.00	∞
Modulation response	E.2.5	3.42	R	1.73	0.00	0.00	0.00	0.00	∞
Readout Electronics	E.2.6	0.26	N	1.00	0.00	0.00	0.00	0.00	∞
Response Time	E.2.7	0.17	R	1.73	0.00	0.00	0.00	0.00	∞
Integration Time	E.2.8	1.43	R	1.73	0.00	0.00	0.00	0.00	∞
RF ambient conditions-Noise	E.6.1	3.51	R	1.73	0.00	0.00	0.00	0.00	∞
RF ambient conditions-reflections	E.6.1	3.15	R	1.73	0.00	0.00	0.00	0.00	∞
Probe positioner mechanical tolerance	E.6.2	1.2	R	1.73	1.00	1.00	0.69	0.69	∞
Probe positioning with respect to phantom shell	E.6.3	1.4	R	1.73	1.00	1.00	0.81	0.81	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	3.9	R	1.73	0.00	0.00	0.00	0.00	∞
System check source (dipole)									
Deviation of experimental dipoles	E.6.4	4.8	N	1.00	1.00	1.00	4.80	4.80	∞
Input power and SAR drift measurement	8,6.6.4	5.1	R	1.73	1.00	1.00	2.94	2.94	∞
Dipole axis to liquid distance	8,E.6.6	2.4	R	1.73	1.00	1.00	1.39	1.39	∞
Phantom and tissue parameters									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	3.7	R	1.73	1.00	1.00	2.14	2.14	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1.00	1.00	0.84	1.90	1.60	∞
Liquid conductivity measurement	E.3.3	2.4	R	1.73	0.78	0.71	1.08	0.98	∞
Liquid permittivity measurement	E.3.3	4.1	N	1.00	0.78	0.71	3.20	2.91	M
Liquid conductivity—temperature uncertainty	E.3.4	2.7	R	1.73	0.23	0.26	0.36	0.41	∞
Liquid permittivity—temperature uncertainty	E.3.4	4.8	N	1.00	0.23	0.26	1.10	1.25	M
Combined Standard Uncertainty			RSS				5.56	5.20	
Expanded Uncertainty (95% Confidence interval)			K=2				11.12	10.41	

9. Conducted Power Measurement

9.1 Test Result

LTE Conducted Power

General Note:

1. Anritsu CMW500 base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
2. Per KDB 941225 D05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
3. Per KDB 941225 D05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
4. Per KDB 941225 D05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
5. Per KDB 941225 D05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
6. Per KDB 941225 D05, 16QAM output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05, 16QAM SAR testing is not required.
7. Per KDB 941225 D05, Smaller bandwidth output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05, smaller bandwidth SAR testing is not required.

LTE Band 2

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	22.91	22.79	23.10
1.4	1	2		22.87	22.71	23.13
1.4	1	5		22.97	22.75	23.09
1.4	3	0		23.03	22.74	23.10
1.4	3	1		22.87	22.72	23.09
1.4	3	2		22.86	22.71	23.08
1.4	6	0		22.05	21.80	22.18
1.4	1	0	16-QAM	22.12	22.03	22.26
1.4	1	2		22.00	21.92	22.22
1.4	1	5		22.09	21.99	22.22
1.4	3	0		22.30	21.85	22.30
1.4	3	1		22.07	21.79	22.27
1.4	3	2		22.06	21.79	22.27
1.4	6	0		21.02	20.90	21.25
3	1	0	QPSK	22.83	22.76	23.00
3	1	7		22.74	22.59	22.97
3	1	14		22.87	22.75	23.12
3	8	0		22.06	21.87	22.14
3	8	4		21.92	21.76	22.17
3	8	7		21.93	21.75	22.17
3	15	0		22.06	21.80	22.24
3	1	0	16-QAM	22.65	22.02	22.18
3	1	7		22.50	21.85	22.17
3	1	14		22.64	22.00	22.24
3	8	0		21.34	20.93	21.34
3	8	4		21.25	20.81	21.36
3	8	7		21.25	20.81	21.36
3	15	0		21.15	20.84	21.40

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.13	22.87	23.12
5	1	12		22.93	22.60	23.19
5	1	24		23.08	22.79	23.10
5	12	0		22.10	21.88	22.25
5	12	6		22.03	21.69	22.21
5	12	11		22.00	21.69	22.21
5	25	0		22.16	21.80	22.17
5	1	0	16-QAM	22.19	22.25	22.39
5	1	12		21.94	21.95	22.43
5	1	24		22.10	22.21	22.32
5	12	0		21.21	21.00	21.36
5	12	6		21.09	20.84	21.30
5	12	11		21.09	20.79	21.30
5	25	0		21.18	20.90	21.31
10	1	0	QPSK	23.07	22.76	23.03
10	1	24		22.67	22.22	22.81
10	1	49		23.05	22.67	23.12
10	25	0		22.05	21.73	21.98
10	25	12		21.91	21.39	21.70
10	25	24		21.90	21.38	21.70
10	50	0		22.10	21.67	22.14
10	1	0	16-QAM	22.87	22.05	22.12
10	1	24		22.42	21.48	21.93
10	1	49		22.85	21.96	22.30
10	25	0		21.20	20.84	21.19
10	25	12		21.03	20.49	21.01
10	25	24		21.03	20.50	21.01
10	50	0				

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.24	23.12	23.14
15	1	37		22.92	22.36	23.12
15	1	74		23.26	22.83	22.90
15	36	0		21.96	21.98	22.17
15	36	18		22.00	21.95	22.18
15	36	39		21.98	21.94	22.17
15	75	0		21.94	21.97	22.19
15	1	0	16-QAM	22.78	22.84	22.43
15	1	38		22.47	22.18	22.40
15	1	75		22.83	22.52	22.17
15	36	0				
15	36	18				
15	36	39				
15	75	0				
20	1	0	QPSK	22.81	22.41	23.00
20	1	49		23.24	22.88	22.82
20	1	99		22.57	23.12	23.02
20	50	0		22.18	21.54	22.03
20	50	24		22.16	21.53	22.13
20	50	49		22.00	22.05	22.27
20	100	0		21.49	22.00	21.99
20	1	0	16-QAM	22.02	22.45	22.70
20	1	49		22.23	21.81	22.71
20	1	99		22.60	22.21	22.53
20	50	0				
20	50	24				
20	50	49				
20	100	0				

LTE Band 4

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.96	23.25	23.25
1.4	1	2		23.87	23.18	23.23
1.4	1	5		23.94	23.21	23.26
1.4	3	0		23.95	23.18	23.26
1.4	3	1		23.75	23.16	23.23
1.4	3	2		23.83	23.15	23.24
1.4	6	0		22.94	22.25	22.19
1.4	1	0	16-QAM	23.08	22.42	22.28
1.4	1	2		22.94	22.31	22.36
1.4	1	5		23.01	22.38	22.36
1.4	3	0		23.05	22.57	22.19
1.4	3	1		22.95	22.46	22.19
1.4	3	2		22.95	22.46	22.15
1.4	6	0		21.91	21.31	21.50
3	1	0	QPSK	23.78	23.16	23.16
3	1	7		23.65	22.93	23.20
3	1	14		23.85	23.19	23.28
3	8	0		23.02	22.25	22.22
3	8	4		22.97	22.14	22.23
3	8	7		22.97	22.13	22.23
3	15	0		22.85	22.21	22.19
3	1	0	16-QAM	22.96	22.84	22.19
3	1	7		22.85	22.65	22.41
3	1	14		23.00	22.87	22.38
3	8	0		22.02	21.47	21.36
3	8	4		21.99	21.38	21.43
3	8	7		21.99	21.34	21.43
3	15	0		21.98	21.32	21.43

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.73	23.23	23.25
5	1	12		23.72	23.04	23.34
5	1	24		23.93	23.22	23.35
5	12	0		22.89	22.29	22.22
5	12	6		22.88	22.11	22.37
5	12	11		22.87	22.10	22.37
5	25	0		22.94	22.22	22.22
5	1	0	16-QAM	22.80	22.65	22.22
5	1	12		22.74	22.43	22.60
5	1	24		22.98	22.63	22.31
5	12	0		21.86	21.35	21.41
5	12	6		21.91	21.15	21.46
5	12	11		21.92	21.15	21.46
5	25	0		21.97	21.20	21.51
10	1	0	QPSK	23.02	23.22	23.19
10	1	24		23.60	23.04	23.34
10	1	49		23.60	23.31	23.40
10	25	0		22.35	22.14	22.23
10	25	12		22.65	21.87	22.45
10	25	24		22.64	21.95	22.46
10	50	0		22.52	21.99	22.35
10	1	0	16-QAM	22.22	22.87	22.48
10	1	24		22.73	22.73	22.65
10	1	49		22.77	22.95	22.57
10	25	0		21.39	21.40	21.41
10	25	12		21.69	21.16	21.46
10	25	24		21.70	21.17	21.47
10	50	0		N/A	N/A	N/A

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.15	23.44	23.42
15	1	37		23.83	23.20	23.50
15	1	74		23.53	23.35	23.51
15	36	0		22.53	22.42	22.65
15	36	18		22.55	22.43	22.64
15	36	39		22.54	22.42	22.65
15	75	0		22.55	22.44	22.64
15	1	0	16-QAM	22.90	22.76	22.78
15	1	38		23.51	22.46	22.92
15	1	75		23.31	22.64	22.98
15	36	0		N/A	N/A	N/A
15	36	18		N/A	N/A	N/A
15	36	39		N/A	N/A	N/A
15	75	0		N/A	N/A	N/A
20	1	0	QPSK	23.83	23.07	23.16
20	1	49		23.21	23.39	23.45
20	1	99		23.02	23.38	23.23
20	50	0		22.74	22.17	22.71
20	50	24		22.73	22.17	22.70
20	50	49		22.13	22.54	22.52
20	100	0		22.14	22.45	22.62
20	1	0	16-QAM	22.41	22.71	22.97
20	1	49		23.18	22.43	22.85
20	1	99		22.66	22.74	23.15
20	50	0		N/A	N/A	N/A
20	50	24		N/A	N/A	N/A
20	50	49		N/A	N/A	N/A
20	100	0		N/A	N/A	N/A

LTE Band 5

LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	24.99	25.01	24.74
1.4	1	2		24.90	25.18	24.76
1.4	1	5		24.90	25.05	24.74
1.4	3	0		24.89	25.08	24.74
1.4	3	1		24.82	25.06	24.75
1.4	3	2		24.81	25.05	24.73
1.4	6	0		23.79	24.01	23.74
1.4	1	0	16-QAM	23.88	24.00	23.85
1.4	1	2		23.83	24.12	23.81
1.4	1	5		23.79	23.96	23.86
1.4	3	0		23.88	24.16	23.73
1.4	3	1		23.86	24.23	23.69
1.4	3	2		23.86	24.23	23.69
1.4	6	0		22.84	23.12	22.81
3	1	0	QPSK	25.05	25.01	24.63
3	1	7		24.78	25.06	24.69
3	1	14		25.01	25.09	24.72
3	8	0		24.00	23.98	23.71
3	8	4		23.78	24.08	23.60
3	8	7		23.77	24.09	23.59
3	15	0		23.86	23.99	23.59
3	1	0	16-QAM	24.65	24.08	23.67
3	1	7		24.31	24.17	23.63
3	1	14		24.55	24.07	23.75
3	8	0		23.30	23.03	22.87
3	8	4		23.05	23.13	22.79
3	8	7		23.06	23.14	22.79
3	15	0		23.05	23.08	22.74

LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	25.22	25.00	24.85
5	1	12		24.85	25.24	24.94
5	1	24		25.28	25.14	24.77
5	12	0		24.15	24.00	23.57
5	12	6		23.77	24.15	23.65
5	12	11		23.84	24.15	23.74
5	25	0		23.97	24.03	23.59
5	1	0	16-QAM	24.13	24.27	23.93
5	1	12		23.76	24.51	24.02
5	1	24		24.14	24.27	23.75
5	12	0		23.23	23.07	22.67
5	12	6		22.95	23.20	22.71
5	12	11		22.95	23.16	22.72
5	25	0		23.13	23.13	22.82
10	1	0	QPSK	24.72	25.10	24.77
10	1	24		25.23	25.05	24.92
10	1	49		25.00	25.06	24.71
10	25	0		23.92	23.91	23.74
10	25	12		23.89	23.91	23.74
10	25	24		23.98	23.84	23.51
10	50	0		23.91	23.89	23.70
10	1	0	16-QAM	24.65	24.19	23.72
10	1	24		24.37	24.32	23.80
10	1	49		24.81	24.11	23.94
10	25	0		23.10	22.95	22.71
10	25	12		23.04	23.03	23.00
10	25	24		23.04	23.04	22.92
10	50	0		N/A	N/A	N/A

LTE Band 7

LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.28	21.99	22.08
5	1	12		22.77	22.10	23.04
5	1	24		23.03	22.10	22.41
5	12	0		22.10	21.13	21.42
5	12	6		21.84	21.20	21.87
5	12	11		21.91	21.21	21.87
5	25	0		21.99	21.23	21.54
5	1	0	16-QAM	22.50	21.11	21.57
5	1	12		22.10	21.18	22.52
5	1	24		22.28	21.18	21.89
5	12	0		21.12	20.25	20.56
5	12	6		20.91	20.26	21.01
5	12	11		20.92	20.28	21.02
5	25	0		21.14	20.37	20.65
10	1	0	QPSK	23.63	22.02	22.02
10	1	24		22.73	22.14	23.67
10	1	49		23.25	22.12	23.09
10	25	0		22.30	21.07	21.62
10	25	12		21.91	21.15	22.48
10	25	24		21.88	21.15	22.48
10	50	0		22.20	21.15	22.04
10	1	0	16-QAM	23.37	21.35	21.31
10	1	24		22.47	21.41	22.70
10	1	49		23.01	21.43	22.26
10	25	0		21.38	20.15	20.77
10	25	12		21.00	20.21	21.59
10	25	24		21.00	20.21	21.61
10	50	0		N/A	N/A	N/A

LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.97	22.21	22.25
15	1	37		22.93	22.60	23.50
15	1	74		23.68	22.23	23.59
15	36	0		22.56	21.41	22.43
15	36	18		22.51	21.43	22.43
15	36	39		22.55	21.42	22.43
15	75	0		22.56	21.46	22.44
15	1	0	16-QAM	23.61	21.60	21.83
15	1	37		22.60	21.83	22.92
15	1	74		23.33	21.53	23.11
15	36	0		N/A	N/A	N/A
15	36	18		N/A	N/A	N/A
15	36	39		N/A	N/A	N/A
15	75	0		N/A	N/A	N/A
20	1	0	QPSK	22.92	22.77	22.99
20	1	49		24.03	22.27	23.69
20	1	99		23.45	22.28	22.16
20	50	0		22.43	21.41	22.41
20	50	24		22.42	21.41	22.40
20	50	49		22.80	21.36	22.25
20	100	0		22.80	21.38	22.43
20	1	0	16-QAM	22.80	21.56	22.00
20	1	49		22.40	22.04	22.56
20	1	99		23.30	21.61	23.37
20	50	0		N/A	N/A	N/A
20	50	24		N/A	N/A	N/A
20	50	49		N/A	N/A	N/A
20	100	0		N/A	N/A	N/A

LTE Band 12

LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	24.27	24.32	23.53
1.4	1	2		24.19	24.02	23.97
1.4	1	5		24.23	24.18	23.71
1.4	3	0		24.28	24.25	23.67
1.4	3	1		24.22	24.05	23.93
1.4	3	2		24.23	24.04	23.92
1.4	6	0		23.36	23.29	22.92
1.4	1	0	16-QAM	23.46	23.44	22.84
1.4	1	2		23.43	23.18	23.17
1.4	1	5		23.48	23.30	22.97
1.4	3	0		23.52	23.56	22.77
1.4	3	1		23.55	23.34	22.99
1.4	3	2		23.54	23.34	22.99
1.4	6	0		22.41	22.36	21.96
3	1	0	QPSK	23.95	24.32	23.50
3	1	7		24.16	23.85	24.46
3	1	14		24.16	24.12	24.11
3	8	0		23.25	23.43	22.98
3	8	4		23.35	23.09	23.44
3	8	7		23.33	23.09	23.43
3	15	0		23.29	23.32	23.24
3	1	0	16-QAM	23.20	24.05	22.79
3	1	7		23.45	23.58	23.70
3	1	14		23.40	23.85	23.37
3	8	0		22.39	22.64	22.00
3	8	4		22.50	22.31	22.48
3	8	7		22.50	22.31	22.43
3	15	0		22.43	22.41	22.26

LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.94	24.70	23.63
5	1	12		24.33	23.98	24.88
5	1	24		24.13	24.24	24.45
5	12	0		23.08	23.54	23.18
5	12	6		23.27	23.07	23.79
5	12	11		23.35	23.07	23.79
5	25	0		23.21	23.36	23.49
5	1	0	16-QAM	23.24	23.73	23.05
5	1	12		23.57	22.94	24.19
5	1	24		23.34	23.29	23.82
5	12	0		22.15	22.59	22.26
5	12	6		22.35	22.12	22.85
5	12	11		22.35	22.12	22.85
5	25	0		22.27	22.44	22.49
10	1	0	QPSK	24.25	23.90	23.98
10	1	24		23.85	24.09	24.87
10	1	49		24.40	24.75	23.79
10	25	0		22.98	22.83	23.32
10	25	12		23.02	22.83	23.32
10	25	24		22.89	23.53	23.47
10	50	0		22.94	23.30	23.42
10	1	0	16-QAM	23.47	24.32	22.95
10	1	24		23.31	23.55	23.16
10	1	49		23.03	23.76	24.15
10	25	0		22.01	22.62	22.54
10	25	12		22.13	21.89	22.47
10	25	24		22.13	21.90	22.48
10	50	0		N/A	N/A	N/A

LTE Band 13

LTE Band 13 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.42	24.35	23.93
5	1	12		23.94	24.25	24.48
5	1	24		24.26	24.49	24.35
5	12	0		23.40	23.48	23.17
5	12	6		23.04	23.38	23.45
5	12	11		23.03	23.38	23.45
5	25	0		23.21	23.37	23.32
5	1	0	16-QAM	23.63	23.37	23.30
5	1	12		23.10	23.21	23.87
5	1	24		23.43	23.47	23.72
5	12	0		22.39	22.53	22.23
5	12	6		22.03	22.41	22.51
5	12	11		22.03	22.41	22.52
5	25	0		22.25	22.44	22.32
10	1	0	QPSK	N/A	23.84	N/A
10	1	24		N/A	24.34	N/A
10	1	49		N/A	23.81	N/A
10	25	0		N/A	23.09	N/A
10	25	12		N/A	23.08	N/A
10	25	24		N/A	23.20	N/A
10	50	0		N/A	23.06	N/A
10	1	0	16-QAM	N/A	N/A	N/A
10	1	24		N/A	N/A	N/A
10	1	49		N/A	N/A	N/A
10	25	0		N/A	N/A	N/A
10	25	12		N/A	N/A	N/A
10	25	24		N/A	N/A	N/A
10	50	0		N/A	N/A	N/A

LTE Band 17

LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.51	24.65	23.70
5	1	12		23.72	24.12	24.70
5	1	24		23.88	24.52	24.43
5	12	0		23.14	23.64	23.12
5	12	6		22.84	23.50	23.63
5	12	11		22.82	23.50	23.63
5	25	0		22.99	23.44	23.40
5	1	0	16-QAM	23.68	23.72	23.09
5	1	12		22.93	23.11	24.10
5	1	24		23.09	23.51	23.80
5	12	0		22.15	22.68	22.19
5	12	6		21.85	22.54	22.68
5	12	11		21.85	22.55	22.69
5	25	0		22.00	22.52	22.40
10	1	0	QPSK	23.60	23.53	23.64
10	1	24		24.36	24.21	24.53
10	1	49		23.59	23.95	24.36
10	25	0		23.10	22.82	22.84
10	25	12		23.16	22.82	22.84
10	25	24		23.11	23.19	23.45
10	50	0		22.93	23.04	23.46
10	1	0	16-QAM	23.44	22.97	22.90
10	1	24		22.72	22.53	22.83
10	1	49		23.58	23.19	23.56
10	25	0		22.27	22.32	22.17
10	25	12		21.66	21.85	22.17
10	25	24		21.66	21.86	22.18
10	50	0		N/A	N/A	N/A

LTE Band 38

LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.55	22.47	22.58
5	1	12		22.61	22.49	22.57
5	1	24		22.58	22.49	22.60
5	12	0		21.40	21.33	21.55
5	12	6		21.40	21.31	21.51
5	12	11		21.41	21.31	21.51
5	25	0		21.39	21.32	21.48
5	1	0	16-QAM	21.81	21.49	21.65
5	1	12		21.80	21.51	21.59
5	1	24		21.83	21.52	21.72
5	12	0		20.63	20.51	20.71
5	12	6		20.64	20.49	20.67
5	12	11		20.64	20.49	20.67
5	25	0		20.57	20.57	20.71
10	1	0	QPSK	22.68	22.66	22.72
10	1	24		22.78	22.76	22.79
10	1	49		22.65	22.62	22.68
10	25	0		21.39	21.40	21.55
10	25	12		21.43	21.39	21.50
10	25	24		21.42	21.39	21.50
10	50	0		21.43	21.39	21.52
10	1	0	16-QAM	21.84	21.53	21.83
10	1	24		21.93	21.56	21.77
10	1	49		21.94	21.58	21.89
10	25	0		20.60	20.62	20.76
10	25	12		20.62	20.59	20.70
10	25	24		20.63	20.59	20.70
10	50	0		N/A	N/A	N/A

LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.68	22.70	22.80
15	1	37		22.78	22.81	22.74
15	1	74		22.74	22.69	22.74
15	36	0		21.62	21.56	21.66
15	36	18		21.63	21.56	21.66
15	36	39		21.62	21.56	21.66
15	75	0		21.64	21.57	21.67
15	1	0	16-QAM	22.01	21.62	22.07
15	1	38		21.98	21.74	21.95
15	1	75		21.99	21.69	22.05
15	36	0		N/A	N/A	N/A
15	36	18		N/A	N/A	N/A
15	36	39		N/A	N/A	N/A
15	75	0		N/A	N/A	N/A
20	1	0	QPSK	22.72	22.67	22.69
20	1	49		22.87	22.70	22.77
20	1	99		22.76	22.59	22.65
20	50	0		21.63	21.60	21.56
20	50	24		21.63	21.61	21.56
20	50	49		21.71	21.61	21.52
20	100	0		21.56	21.50	21.55
20	1	0	16-QAM	21.71	21.53	21.96
20	1	49		21.72	21.65	21.87
20	1	99		21.94	21.81	22.19
20	50	0		N/A	N/A	N/A
20	50	24		N/A	N/A	N/A
20	50	49		N/A	N/A	N/A
20	100	0		N/A	N/A	N/A

LTE Band 40 2305-2315

LTE Band 40 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	21.99	22.00	21.90
5	1	12		22.00	22.01	22.02
5	1	24		21.95	21.96	21.87
5	12	0		20.85	20.80	20.86
5	12	6		20.82	20.83	20.84
5	12	11		20.81	20.83	20.84
5	25	0		20.83	20.81	20.82
5	1	0	16-QAM	21.33	21.06	21.02
5	1	12		21.31	21.15	21.13
5	1	24		21.26	21.05	21.04
5	12	0		19.93	19.89	19.89
5	12	6		19.91	19.92	19.87
5	12	11		19.91	19.92	19.87
5	25	0		19.88	19.94	19.89
10	1	0	QPSK	N/A	22.10	N/A
10	1	24		N/A	22.03	N/A
10	1	49		N/A	22.02	N/A
10	25	0		N/A	20.88	N/A
10	25	12		N/A	20.87	N/A
10	25	24		N/A	20.89	N/A
10	50	0		N/A	20.86	N/A
10	1	0	16-QAM	N/A	N/A	N/A
10	1	24		N/A	N/A	N/A
10	1	49		N/A	N/A	N/A
10	25	0		N/A	N/A	N/A
10	25	12		N/A	N/A	N/A
10	25	24		N/A	N/A	N/A
10	50	0		N/A	N/A	N/A

LTE Band 40 2350-2360

LTE Band 40 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	21.79	21.84	21.83
5	1	12		21.82	21.81	21.79
5	1	24		21.79	21.78	21.76
5	12	0		20.66	20.71	20.69
5	12	6		20.65	20.62	20.71
5	12	11		20.69	20.62	20.71
5	25	0		20.68	20.75	20.72
5	1	0	16-QAM	20.89	20.94	21.13
5	1	12		20.86	20.97	21.14
5	1	24		20.82	20.94	21.11
5	12	0		19.65	19.74	19.75
5	12	6		19.67	19.65	19.76
5	12	11		19.67	19.65	19.76
5	25	0		19.67	19.75	19.66
10	1	0	QPSK	N/A	21.93	N/A
10	1	24		N/A	21.89	N/A
10	1	49		N/A	21.95	N/A
10	25	0		N/A	20.69	N/A
10	25	12		N/A	20.68	N/A
10	25	24		N/A	20.74	N/A
10	50	0		N/A	20.80	N/A
10	1	0	16-QAM	N/A	N/A	N/A
10	1	24		N/A	N/A	N/A
10	1	49		N/A	N/A	N/A
10	25	0		N/A	N/A	N/A
10	25	12		N/A	N/A	N/A
10	25	24		N/A	N/A	N/A
10	50	0		N/A	N/A	N/A

LTE Band 41

LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.22	22.56	22.67
5	1	12		22.13	22.59	22.67
5	1	24		22.18	22.53	22.63
5	12	0		21.23	21.47	21.74
5	12	6		21.18	21.46	21.70
5	12	11		21.19	21.46	21.70
5	25	0		21.18	21.47	21.71
5	1	0	16-QAM	21.69	21.62	21.95
5	1	12		21.63	21.65	21.95
5	1	24		21.66	21.65	21.93
5	12	0		20.43	20.54	20.93
5	12	6		20.41	20.53	20.90
5	12	11		20.41	20.53	20.90
5	25	0		20.32	20.56	20.92
10	1	0	QPSK	22.28	22.75	22.72
10	1	24		22.26	22.80	22.85
10	1	49		22.31	22.76	22.80
10	25	0		21.29	21.55	21.83
10	25	12		21.19	21.49	21.84
10	25	24		21.20	21.49	21.85
10	50	0		21.22	21.49	21.80
10	1	0	16-QAM	21.70	21.68	22.03
10	1	24		21.68	21.70	22.11
10	1	49		21.77	21.72	22.12
10	25	0		20.34	20.61	20.93
10	25	12		20.31	20.64	20.93
10	25	24		20.32	20.59	20.93
10	50	0		N/A	N/A	N/A

LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.48	22.71	22.87
15	1	37		22.33	22.83	23.04
15	1	74		22.41	22.76	22.92
15	36	0		21.39	21.69	22.01
15	36	18		21.42	21.69	22.00
15	36	39		21.40	21.69	22.00
15	75	0		21.40	21.69	21.98
15	1	0	16-QAM	21.89	21.79	22.30
15	1	38		21.79	21.83	22.41
15	1	75		21.87	21.85	22.31
15	36	0		N/A	N/A	N/A
15	36	18		N/A	N/A	N/A
15	36	39		N/A	N/A	N/A
15	75	0		N/A	N/A	N/A
20	1	0	QPSK	22.98	22.67	22.27
20	1	49		22.97	22.80	22.43
20	1	99		22.81	22.62	22.45
20	50	0		22.05	21.66	21.42
20	50	24		22.05	21.66	21.41
20	50	49		21.96	21.66	21.48
20	100	0		21.97	21.66	21.45
20	1	0	16-QAM	21.73	21.62	22.27
20	1	49		21.57	21.71	22.37
20	1	99		21.83	21.86	22.46
20	50	0		N/A	N/A	N/A
20	50	24		N/A	N/A	N/A
20	50	49		N/A	N/A	N/A
20	100	0		N/A	N/A	N/A

LTE Band 66

LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.52	23.32	22.94
1.4	1	2		23.32	23.31	23.02
1.4	1	5		23.46	23.34	22.94
1.4	3	0		23.42	23.37	22.96
1.4	3	1		23.32	23.31	22.95
1.4	3	2		23.31	23.30	22.94
1.4	6	0		22.41	22.39	22.09
1.4	1	0	16-QAM	22.70	22.40	22.18
1.4	1	2		22.62	22.40	22.18
1.4	1	5		22.76	22.47	22.26
1.4	3	0		22.51	22.28	21.98
1.4	3	1		22.40	22.29	22.00
1.4	3	2		22.40	22.28	22.00
1.4	6	0		21.56	21.51	20.94
3	1	0	QPSK	23.62	23.33	22.89
3	1	7		23.54	23.43	23.06
3	1	14		23.76	23.42	23.05
3	8	0		22.77	22.60	22.10
3	8	4		22.68	22.65	22.15
3	8	7		22.67	22.65	22.15
3	15	0		22.76	22.55	22.15
3	1	0	16-QAM	22.87	22.40	22.12
3	1	7		22.82	22.46	22.28
3	1	14		23.00	22.53	22.26
3	8	0		21.83	21.61	21.05
3	8	4		21.76	21.55	21.05
3	8	7		21.76	21.55	21.06
3	15	0		21.79	21.46	20.96

LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.76	23.55	23.00
5	1	12		23.85	23.57	23.22
5	1	24		23.89	23.57	23.16
5	12	0		22.75	22.59	22.10
5	12	6		22.82	22.60	22.16
5	12	11		22.81	22.60	22.15
5	25	0		22.85	22.60	22.15
5	1	0	16-QAM	22.89	22.71	22.33
5	1	12		22.91	22.68	22.50
5	1	24		22.98	22.72	22.45
5	12	0		21.77	21.59	21.11
5	12	6		21.84	21.58	21.13
5	12	11		21.84	21.58	21.13
5	25	0		21.78	21.54	21.05
10	1	0	QPSK	23.09	23.10	22.85
10	1	24		23.68	23.02	22.94
10	1	49		23.58	23.10	22.83
10	25	0		22.20	21.99	21.67
10	25	12		22.63	21.94	21.64
10	25	24		22.62	21.93	21.63
10	50	0		22.47	21.91	21.68
10	1	0	16-QAM	21.83	22.46	22.15
10	1	24		22.17	22.30	22.23
10	1	49		22.25	22.39	22.07
10	25	0		20.96	21.14	20.66
10	25	12		21.09	20.93	20.61
10	25	24		21.13	20.92	20.61
10	50	0		N/A	N/A	N/A

LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.91	23.64	23.03
15	1	37		23.54	23.20	23.05
15	1	74		23.32	23.45	23.07
15	36	0		22.09	22.45	22.09
15	36	18		22.08	22.45	22.10
15	36	39		22.10	22.45	22.09
15	75	0		22.04	22.36	22.11
15	1	0	16-QAM	22.19	22.65	22.51
15	1	38		22.81	22.24	22.51
15	1	75		22.57	22.55	22.55
15	36	0		N/A	N/A	N/A
15	36	18		N/A	N/A	N/A
15	36	39		N/A	N/A	N/A
15	75	0		N/A	N/A	N/A
20	1	0	QPSK	23.02	23.09	23.75
20	1	49		23.23	23.45	23.03
20	1	99		23.07	23.35	23.03
20	50	0		21.91	22.48	22.38
20	50	24		21.91	22.47	22.42
20	50	49		22.07	22.51	21.80
20	100	0		22.16	22.52	21.76
20	1	0	16-QAM	22.10	22.58	22.36
20	1	49		22.81	22.23	22.38
20	1	99		22.17	22.70	22.55
20	50	0		N/A	N/A	N/A
20	50	24		N/A	N/A	N/A
20	50	49		N/A	N/A	N/A
20	100	0		N/A	N/A	N/A

10. EUT and Test Setup Photo

10.1 EUT Photo

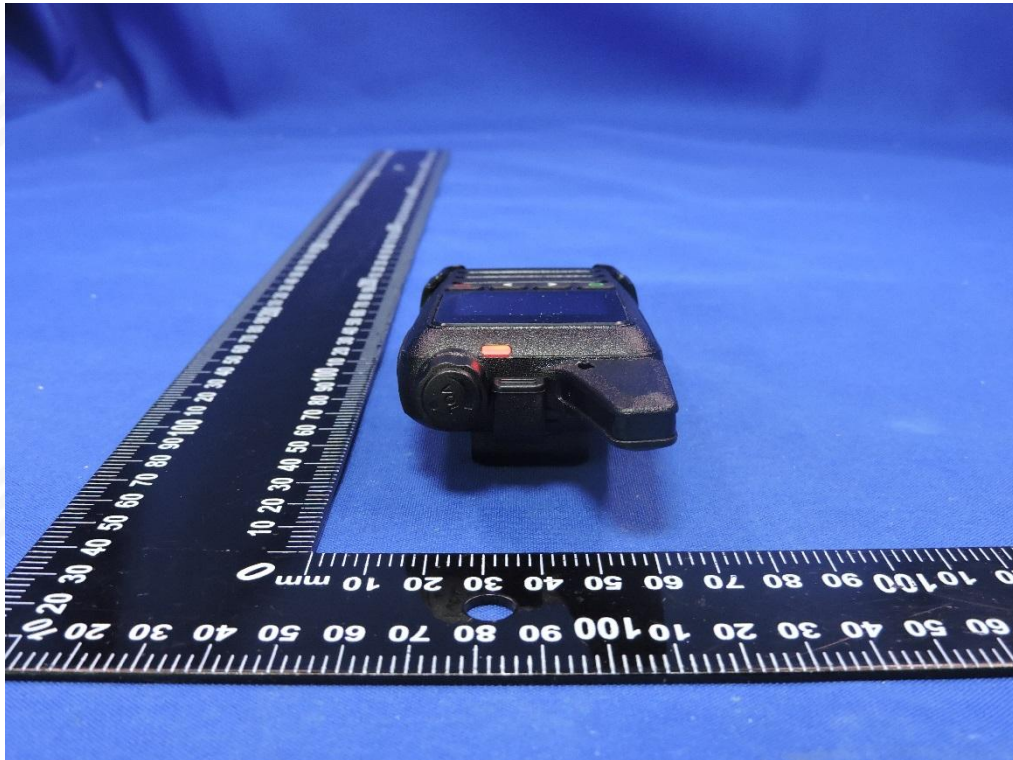
Back+Clip side



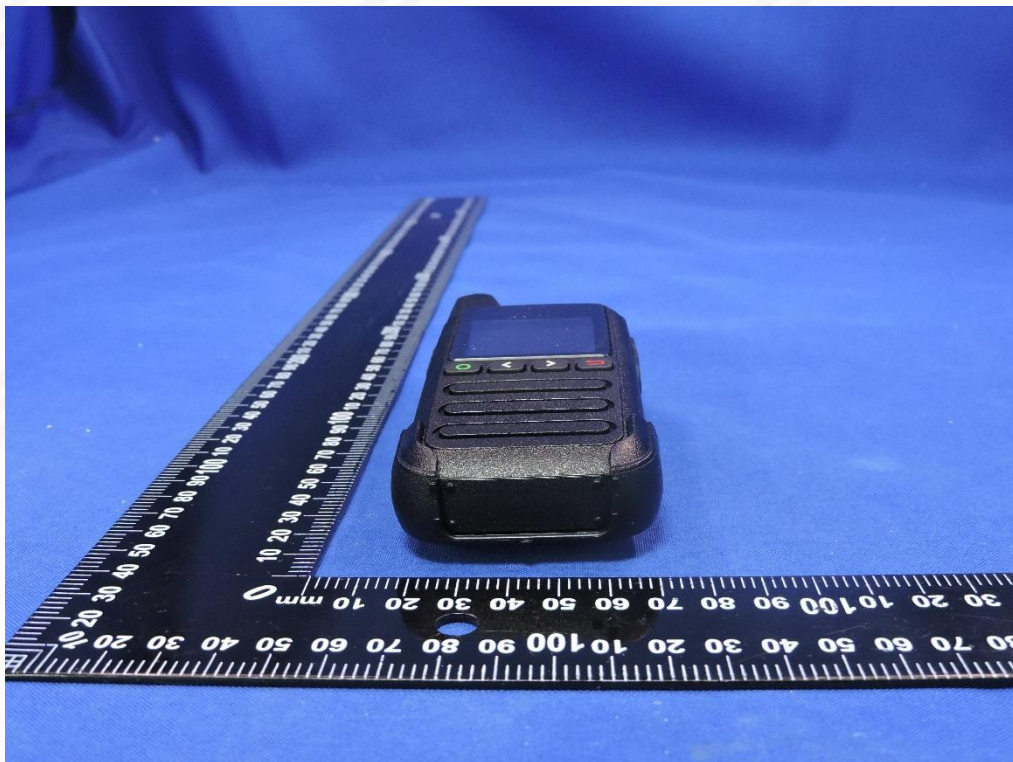
Back side



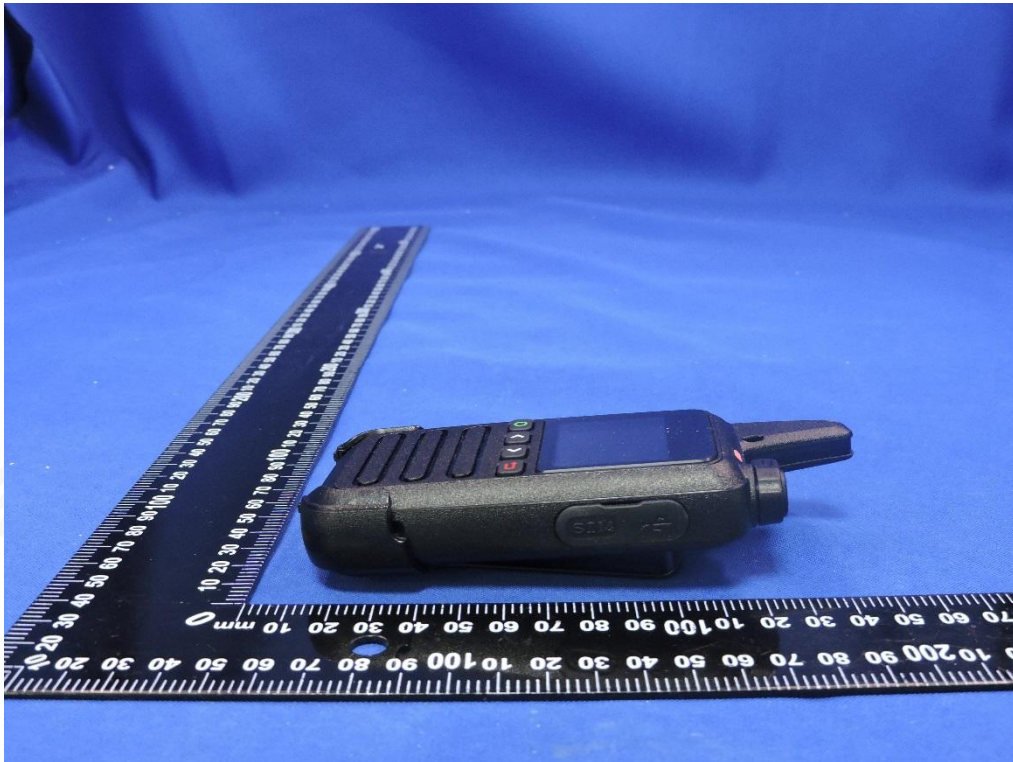
Top side



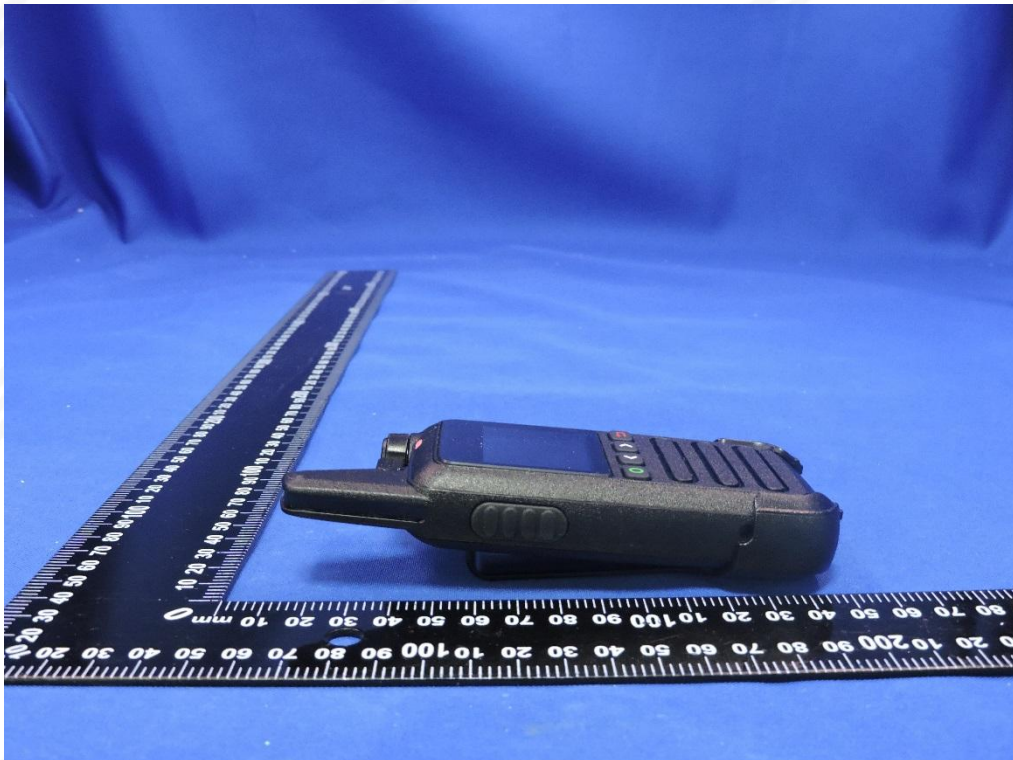
Bottom side



Left side



Right side



10.2 Setup Photo

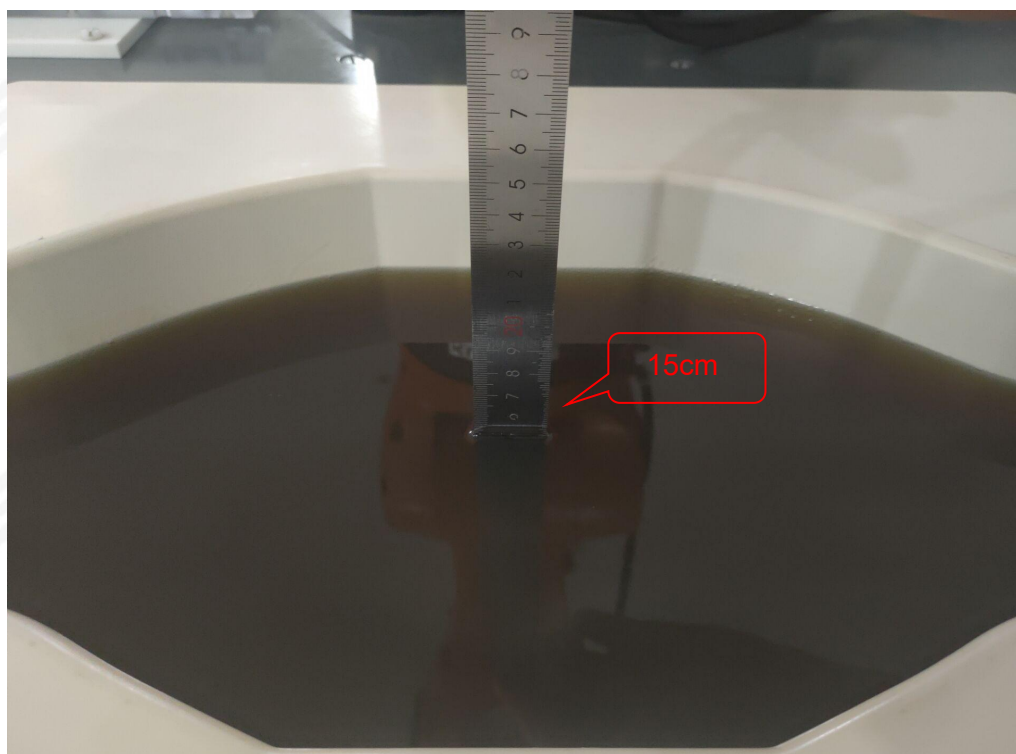
Body Face up (separation distance is 25mm)



Body Back side(separation distance is 0mm)



Liquid depth (15 cm)



11. SAR Result Summary

11.1 Body-worn SAR

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Result 1g (W/Kg)	Power Drift(%)	Max. Turn-up Power(dBm)	Meas. Output Power(dBm)	Scaling Factor	Scaled SAR (W/Kg)	Meas.No.
LTE Band 2	20M	QPSK	1	0	Face up	1860	0.149	1.15	23.5	23.24	1.062	0.158	1
			50	0	Face up	1900	0.115	2.03	22.5	22.27	1.054	0.121	/
			1	0	Back Side	1860	0.549	1.61	23.5	23.24	1.062	0.583	2
			1	0	Back Side	1880	0.461	-1.60	23.5	22.88	1.153	0.532	/
			1	0	Back Side	1890	0.473	-3.19	23.5	22.82	1.169	0.553	/
LTE Band 4	20M	QPSK	50	0	Back Side	1900	0.486	-0.91	22.5	22.27	1.054	0.512	/
			1	0	Face up	1720	0.323	3.67	24	23.83	1.040	0.336	3
			50	0	Face up	1720	0.264	-1.60	23	22.74	1.062	0.280	/
			1	0	Back Side	1720	0.499	0.26	24	23.83	1.040	0.519	4
			50	0	Back Side	1720	0.423	-3.88	23	22.74	1.062	0.449	/
LTE Band 5	10M	QPSK	1	0	Face up	829	0.374	-2.25	25.5	25.23	1.064	0.398	5
			25	0	Face up	829	0.299	-2.56	24	23.98	1.005	0.300	/
			1	0	Back Side	829	0.245	2.61	25.5	25.23	1.064	0.261	6
			25	0	Back Side	829	0.168	-3.83	24	23.98	1.005	0.169	/
			1	0	Face up	2535	0.075	-2.46	24.5	24.03	1.114	0.084	7
LTE Band 7	10M	QPSK	50	0	Face up	2535	0.046	0.62	23	22.8	1.047	0.048	/
			1	0	Back Side	2535	0.156	3.62	24.5	24.03	1.114	0.174	8
			50	0	Back Side	2535	0.104	-2.64	23	22.8	1.047	0.109	/
			1	0	Face up	711	0.351	0.91	25	24.87	1.030	0.362	9
			25	0	Face up	707.5	0.263	2.94	23	22.53	1.114	0.293	/
LTE Band 12	10M	QPSK	1	0	Back Side	711	0.210	-0.74	25	24.87	1.030	0.216	10
			25	0	Back Side	707.5	0.178	-2.08	23	22.53	1.114	0.198	/
			1	0	Face up	782	0.304	1.24	24.5	24.34	1.038	0.315	11
			25	0	Face up	782	0.226	1.80	23.5	23.2	1.072	0.242	/
			1	0	Back Side	782	0.233	-2.34	24.5	24.34	1.038	0.242	12
LTE Band 13	10M	QPSK	25	0	Back Side	782	0.194	1.00	23.5	23.2	1.072	0.208	/
			1	0	Face up	711	0.178	0.14	25	24.53	1.114	0.198	13
			25	0	Face up	711	0.123	3.98	23.5	23.45	1.012	0.124	/
			1	0	Back Side	711	0.196	-0.48	25	24.53	1.114	0.218	14
			25	0	Back Side	711	0.149	-3.56	23.5	23.45	1.012	0.151	/
LTE Band 17	10M	QPSK	1	0	Face up	2580	0.038	1.30	23	22.87	1.030	0.039	15
			50	0	Face up	2580	0.024	-0.92	22	21.71	1.069	0.026	/
			1	0	Back Side	2580	0.059	-3.00	23	22.87	1.030	0.061	16
			50	0	Back Side	2580	0.045	-1.62	22	21.71	1.069	0.048	/
			1	0	Face up	2350	0.060	-3.80	22.5	22.1	1.096	0.066	17
LTE Band 38	20M	QPSK	50	0	Face up	2350	0.044	0.17	21	20.98	1.005	0.044	/
			1	0	Back Side	2350	0.054	-3.20	22.5	22.1	1.096	0.059	18
			50	0	Back Side	2350	0.039	0.37	21	20.98	1.005	0.039	/
			1	0	Face up	2506	0.038	-0.49	23	22.98	1.005	0.038	19
			50	0	Face up	2506	0.031	1.50	22.5	22.05	1.109	0.034	/
LTE Band 40	20M	QPSK	1	0	Back Side	2506	0.062	1.40	23	22.98	1.005	0.062	20
			50	0	Back Side	2506	0.052	0.90	22.5	22.05	1.109	0.058	/
			1	0	Face up	1745	0.271	0.59	24	23.75	1.059	0.287	21
			50	0	Face up	1732.5	0.178	-1.59	23	22.51	1.119	0.199	/
			1	0	Back Side	1745	0.425	-0.61	24	23.75	1.059	0.450	22
LTE Band 41	20M	QPSK	50	0	Back Side	1732.5	0.315	0.54	23	22.51	1.119	0.353	/
			50	0	Back Side	1732.5	0.315	0.54	23	22.51	1.119	0.353	/

Note:

- The test separation of all items in the table above has two distances: Back 0 mm, Face up 25 mm.
- Per KDB 447498 D01 v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - Scaled SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor

12. Equipment List

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
SAR Test System	SATIMO	N/A	V5.3.15.11	N/A	N/A
750MHz Dipole	MVG	SID750	SN 30/14 DIP0G750-331	2023.07.04	2026.07.03
835MHz Dipole	MVG	SID835	SN 30/14 DIP0G835-332	2023.07.04	2026.07.03
1800MHz Dipole	MVG	SID1800	5023-DIP1G800-747	2023.12.20	2026.12.19
1900MHz Dipole	MVG	SID1900	SN 30/14 DIP1G900-333	2023.09.14	2026.09.13
2450MHz Dipole	MVG	SID2450	SN 30/14 DIP2G450-335	2023.07.04	2026.07.03
2600MHz Dipole	MVG	SID2600	SN 30/14 DIP2G600-336	2023.07.04	2026.07.03
E-Field Probe	MVG	SSE2	SN 08/21 EPG0352	2025.09.15	2026.09.14
Dielectric Probe Kit	MVG	SCLMP	SN 32/14 OCPG67	2025.09.15	2026.09.14
Antenna	MVG	ANTA3	SN 07/13 ZNTA52	N/A	N/A
Phantom1	MVG	SAM	SN 32/14 SAM115	N/A	N/A
Phantom3	MVG	SAM	SN 21/21 ELLI48	N/A	N/A
Phone holder	MVG	N/A	SN 32/14 MSH97	N/A	N/A
Laptop holder	MVG	N/A	SN 32/14 LSH29	N/A	N/A
Attenuator	Agilent	HXT-10-8-SMA	240327017	2026.02.04	2027.02.03
Directional coupler	Xi'an Xingbo	XBOH-OA08-20dB	211123-4-3	2026.02.03	2027.02.02
Network Analyzer	Agilent	E5071C	MY46520378	2025-09-26	2026-09-24
Multi Meter	Keithley	Multi Meter 2000	4050073	2025-09-22	2026-09-21
Signal Generator	Agilent	N5182A	MY50140530	2025-09-26	2026-09-25
Wireless Communication Test Set	Agilent	8960-E5515C	MY48360751	2026.02.04	2027.02.03
Wireless Communication Test Set	R&S	CMW500	156324	2025-09-25	2026-09-24
Power Amplifier	DESAY	WCS-DLNA50M8G50G1	CSKJLNA231227A	2025-09-29	2026-09-28
Power Meter	R&S	NRP	100510	2025-09-25	2026-09-24
Power Sensor	R&S	NRP-Z11	101919	2025-09-25	2026-09-24
Power Sensor	Keysight	U2021XA	MY56280002	2025-09-25	2026-09-24
Temperature hygrometer	TOPRIE	TP502V4-P	6700000124198	2025.10.09	2026.10.08
Thermograph	Elitech	RC-4	S/N EF7176501537	2025.10.17	2026.10.16

Appendix A. System Validation Plots

System Performance Check Data (750MHz)

Type: Phone measurement (Complete)

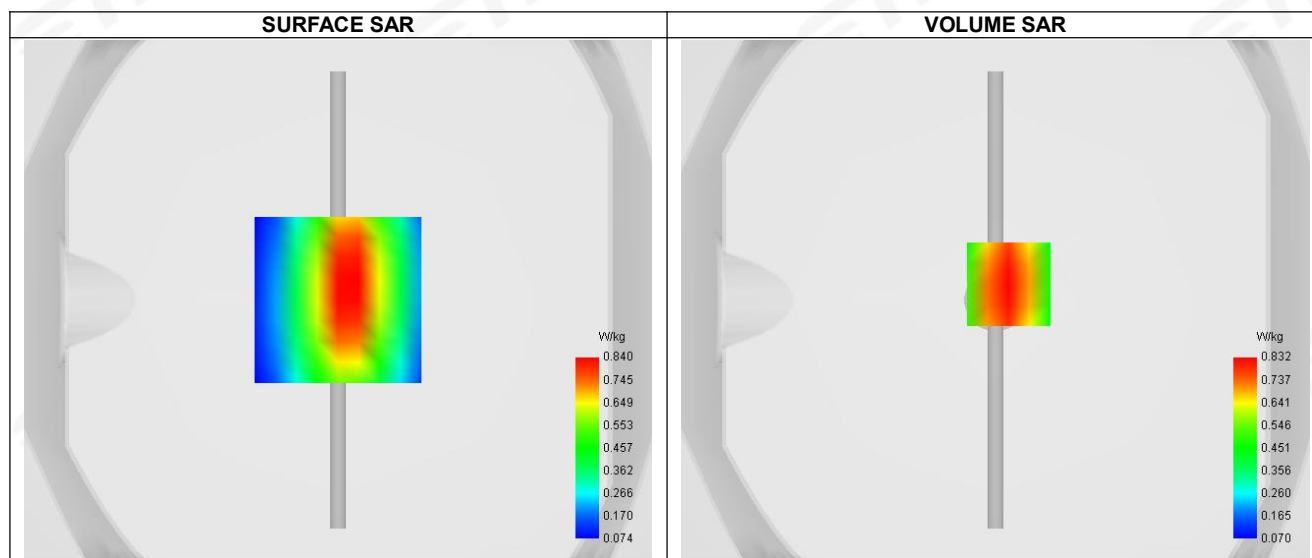
Area scan resolution: dx=8mm, dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2026-05-17

Experimental conditions

Phantom	Validation plane
Device Position	Dipole
Band	750MHz
Channels	Middle
Signal	CW
Frequency (MHz)	750MHz
Relative permittivity	42.52
Conductivity (S/m)	0.90
Probe	SN 08/21 EPGO352
ConvF	1.51
Crest factor	1:1



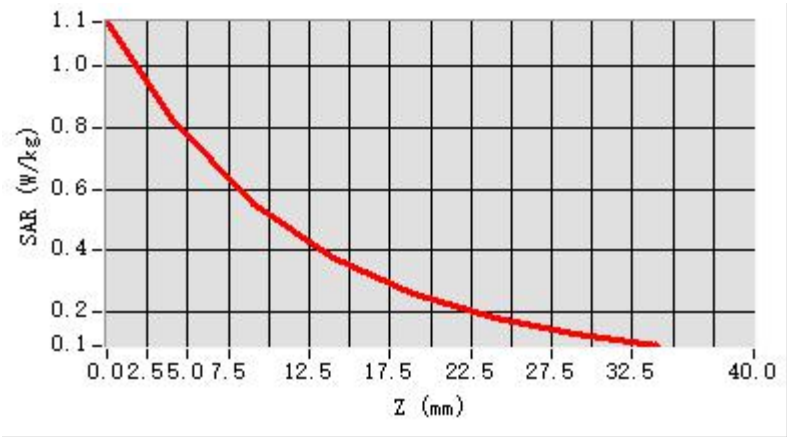
Maximum location: X=5.00, Y=6.00 ; SAR Peak: 1.14 W/kg

D. SAR 1g & 10g

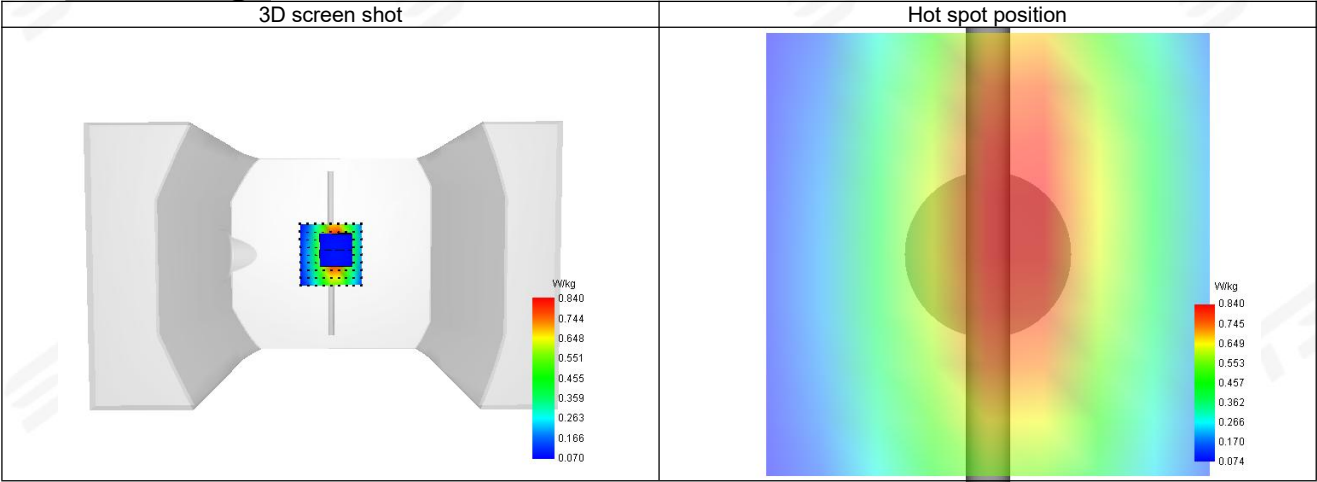
SAR 10g (W/Kg)	0.556
SAR 1g (W/Kg)	0.855
Horizontal validation criteria: minimum distance (mm)	11.334451
Vertical validation criteria: SAR ratio M2/M1 (%)	67.359413

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.147	0.832	0.556	0.380	0.261	0.181	0.129



F. 3D Image



System Performance Check Data (835MHz)

Type: Phone measurement (Complete)

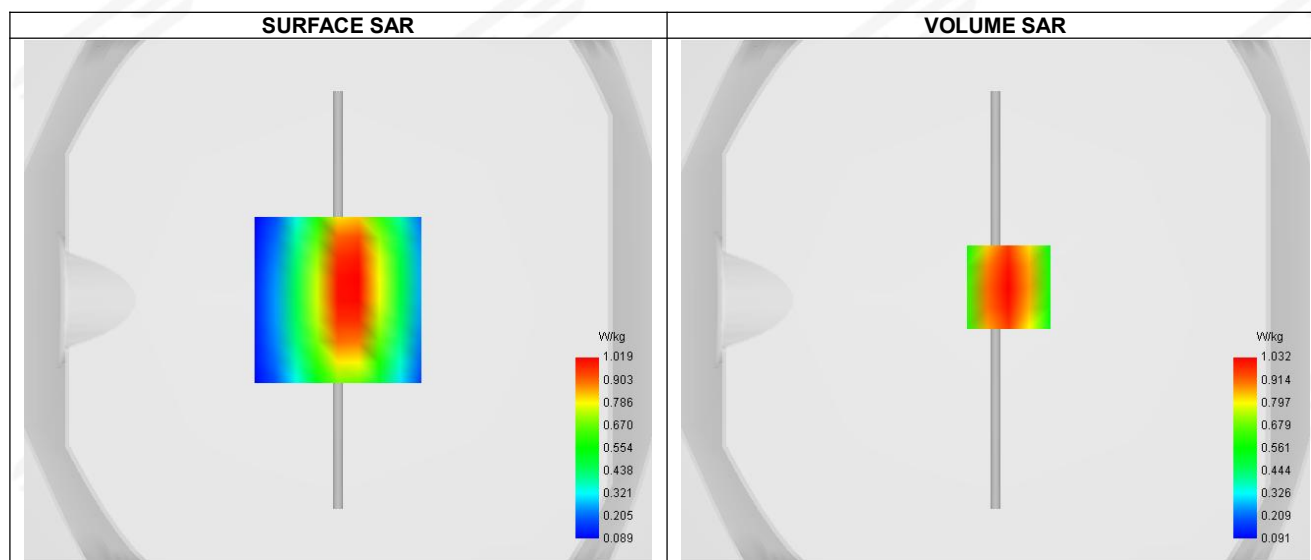
Area scan resolution: dx=8mm, dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2026-05-17

Experimental conditions

Phantom	Validation plane
Device Position	Dipole
Band	835MHz
Channels	Middle
Signal	CW
Frequency (MHz)	835MHz
Relative permittivity	41.66
Conductivity (S/m)	0.91
Probe	SN 08/21 EPGO352
ConvF	1.49
Crest factor:	1:1



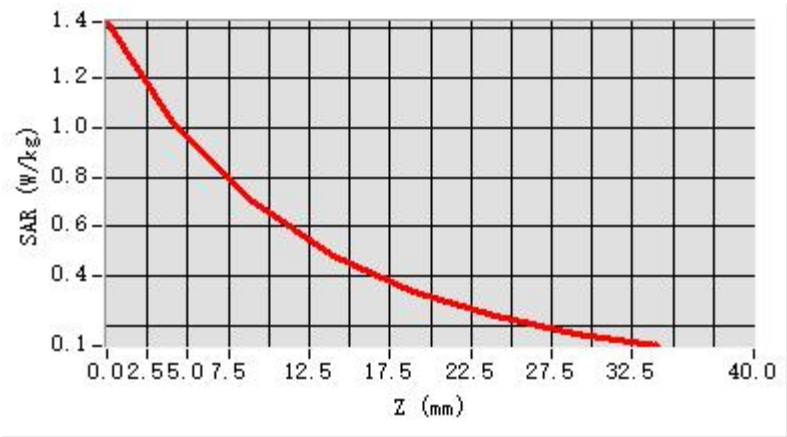
Maximum location: X=5.00, Y=5.00 ; SAR Peak: 1.42 W/kg

D. SAR 1g & 10g

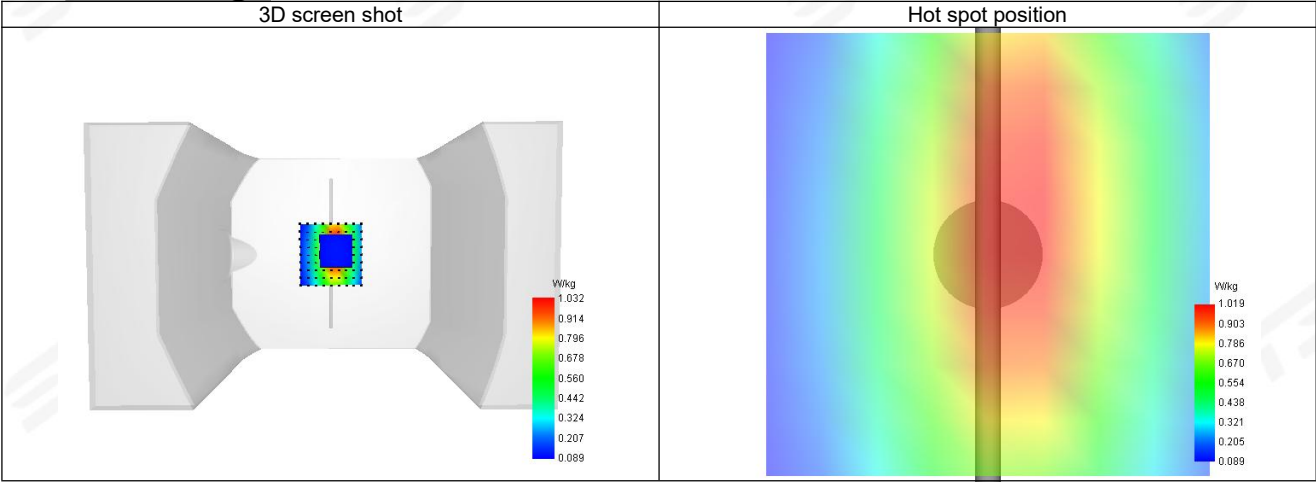
SAR 10g (W/Kg)	0.577
SAR 1g (W/Kg)	0.967
Horizontal validation criteria: minimum distance (mm)	11.262363
Vertical validation criteria: SAR ratio M2/M1 (%)	68.335422

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.428	1.032	0.697	0.480	0.339	0.235	0.163



F. 3D Image



System Performance Check Data(1800MHz)

Type: Phone measurement (Complete)

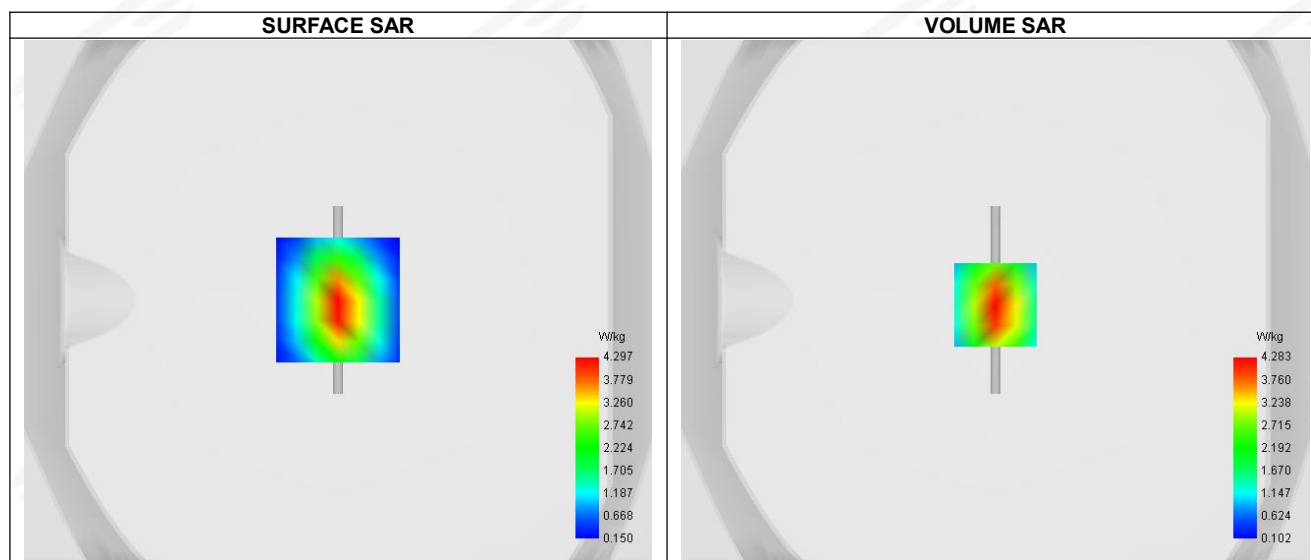
Area scan resolution: dx=8mm, dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2026-05-17

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	1800MHz
Channels	Middle
Signal	CW
Frequency (MHz)	1800MHz
Relative permittivity	40.02
Conductivity (S/m)	1.39
Probe	SN 08/21 EPGO352
ConvF	1.54
Crest factor:	1:1



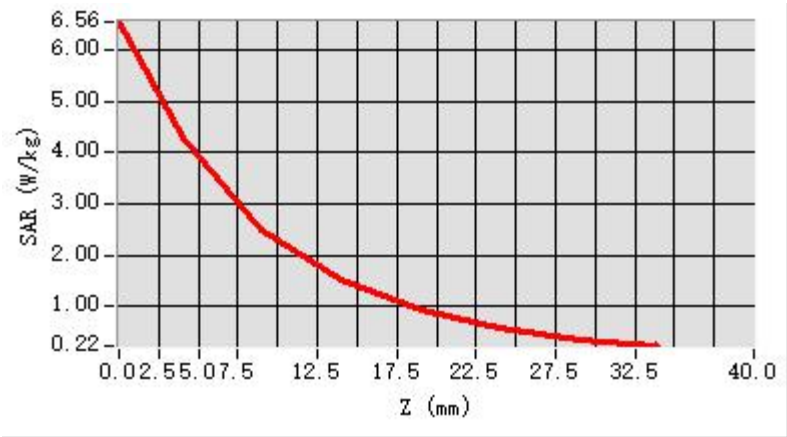
Maximum location: X=0.00, Y=-2.00 ; SAR Peak: 6.53 W/kg

D. SAR 1g & 10g

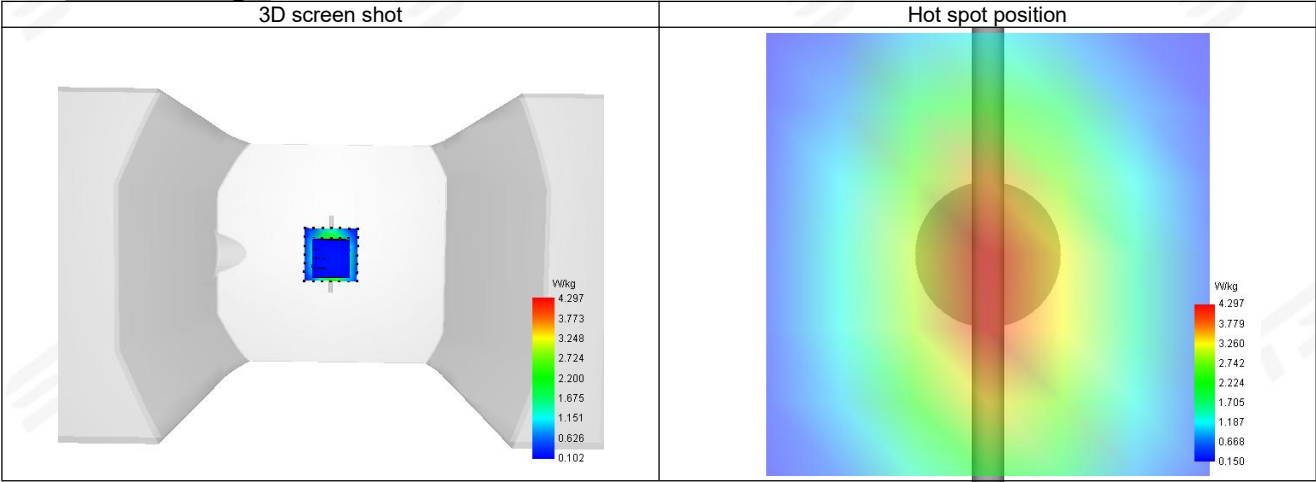
SAR 10g (W/Kg)	2.018
SAR 1g (W/Kg)	3.774
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	58.161874

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.558	4.283	2.491	1.504	0.927	0.573	0.356



F. 3D Image



System Performance Check Data (1900MHz)

Type: Phone measurement (Complete)

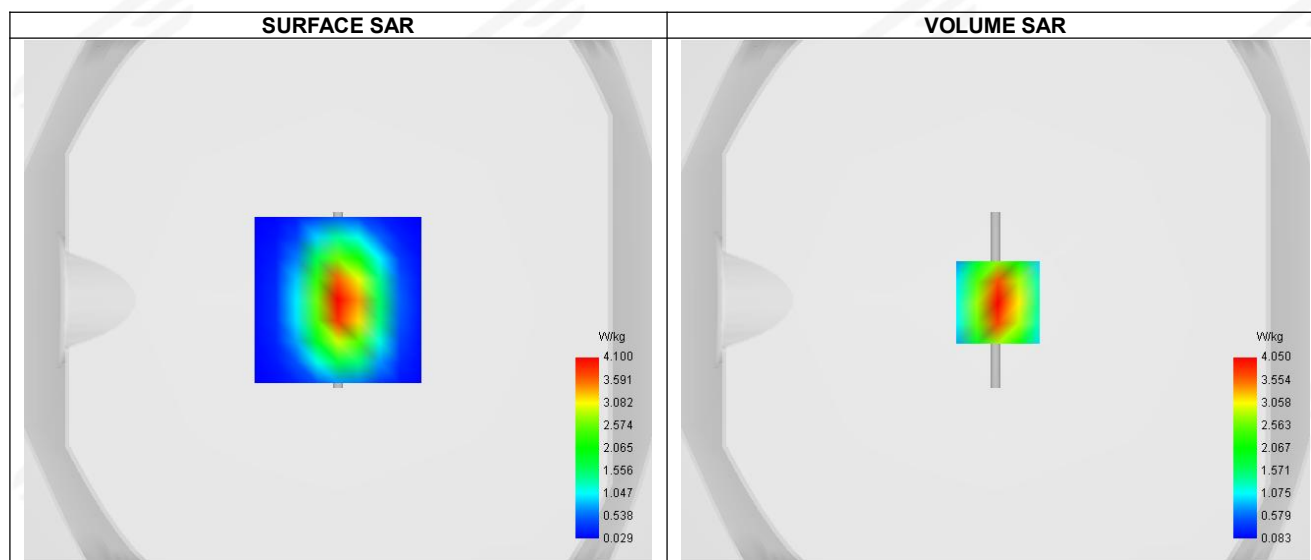
Area scan resolution: dx=8mm, dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2026-05-18

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	1900MHz
Channels	Middle
Signal	CW
Frequency (MHz)	1900MHz
Relative permittivity	40.77
Conductivity (S/m)	1.38
Probe	SN 08/21 EPGO352
ConvF	1.73
Crest factor:	1:1



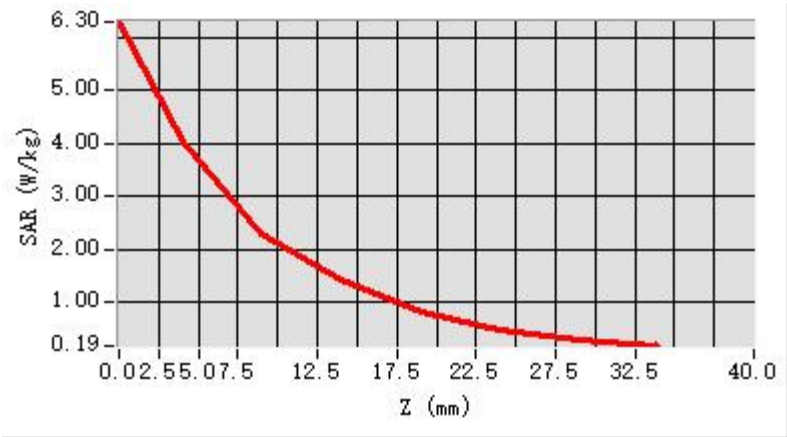
Maximum location: X=1.00, Y=-1.00 ; SAR Peak: 6.24 W/kg

D. SAR 1g & 10g

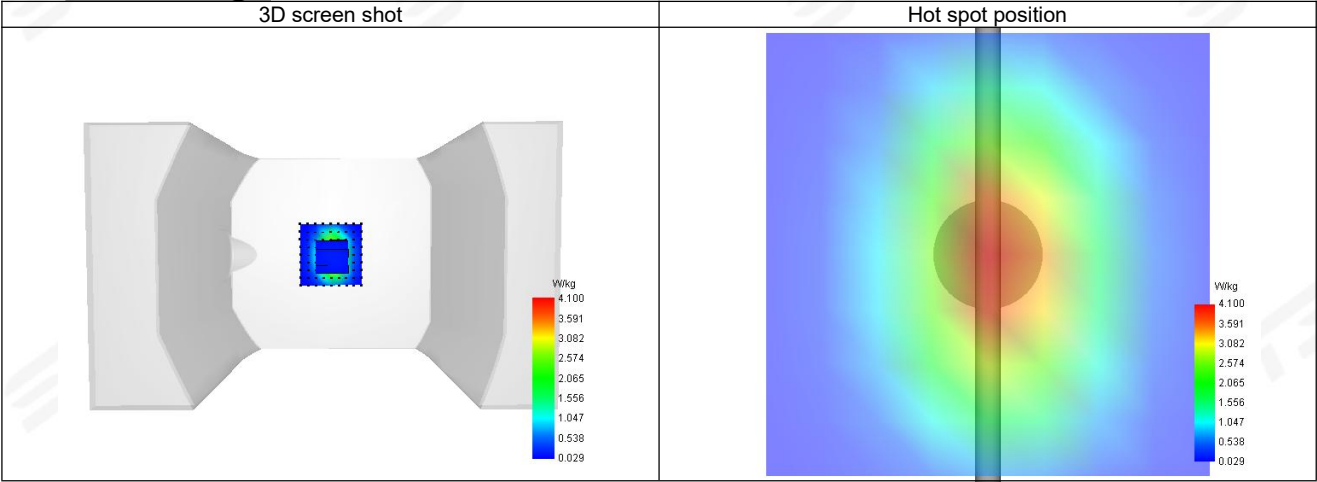
SAR 10g (W/Kg)	2.031
SAR 1g (W/Kg)	4.031
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	56.919960

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.298	4.050	2.305	1.415	0.842	0.501	0.299



F. 3D Image



System Performance Check Data (2450MHz)

Type: Phone measurement (Complete)

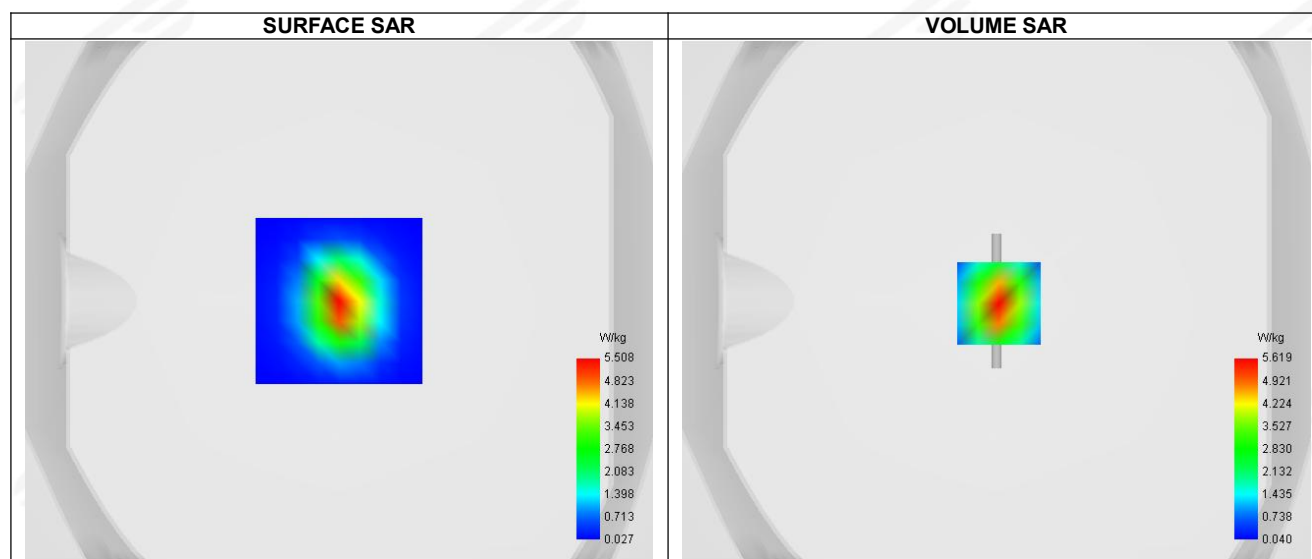
Area scan resolution: dx=8mm, dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2026-05-18

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	2450MHz
Channels	Middle
Signal	CW
Frequency (MHz)	2450
Relative permittivity	39.14
Conductivity (S/m)	1.78
Probe	SN 08/21 EPG0352
ConvF	1.82
Crest factor:	1:1



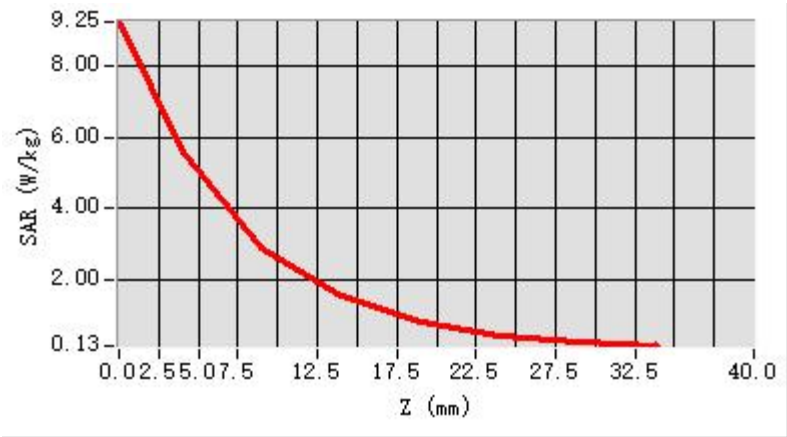
Maximum location: X=1.00, Y=-1.00 ; SAR Peak: 9.15 W/kg

D. SAR 1g & 10g

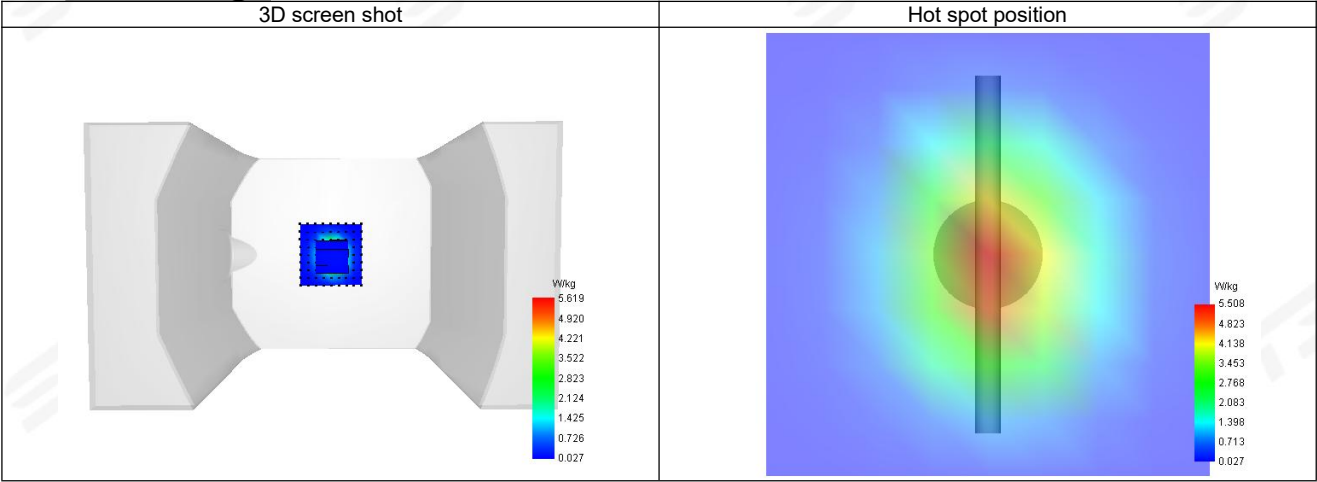
SAR 10g (W/Kg)	2.417
SAR 1g (W/Kg)	5.502
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	51.425952

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	9.252	5.619	2.890	1.554	0.821	0.433	0.229



F. 3D Image



System Performance Check Data(2600MHz)

Type: Phone measurement (Complete)

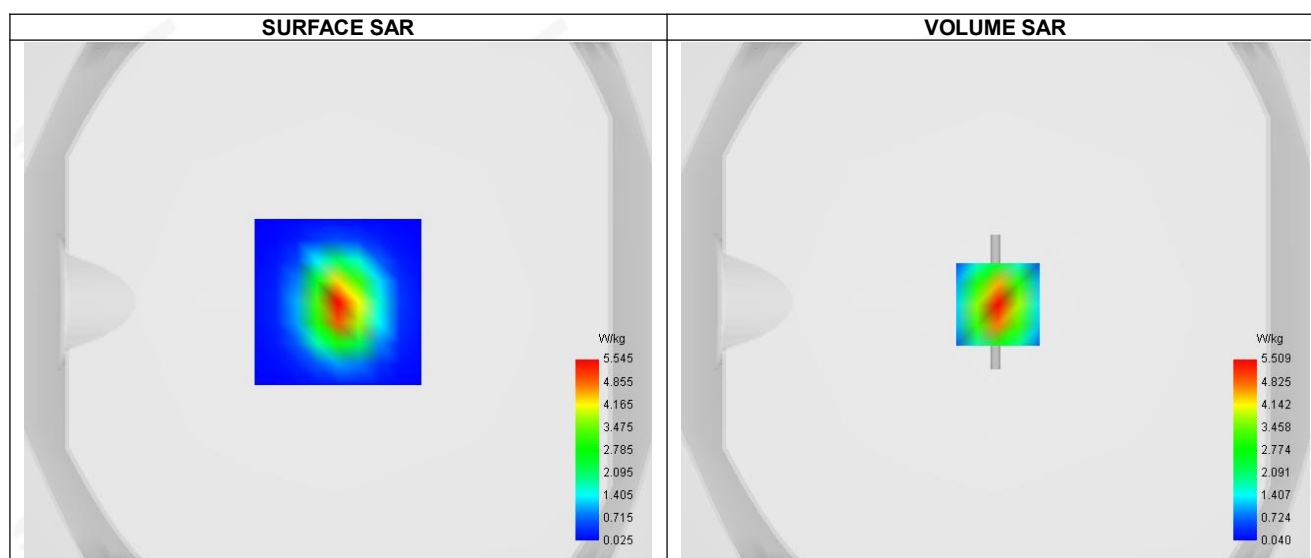
Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2026-05-18

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	2600MHz
Channels	Middle
Signal	CW
Frequency (MHz)	2600
Relative permittivity	39.41
Conductivity (S/m)	1.91
Probe	SN 08/21 EPGO352
ConvF	1.70
Crest factor:	1:1



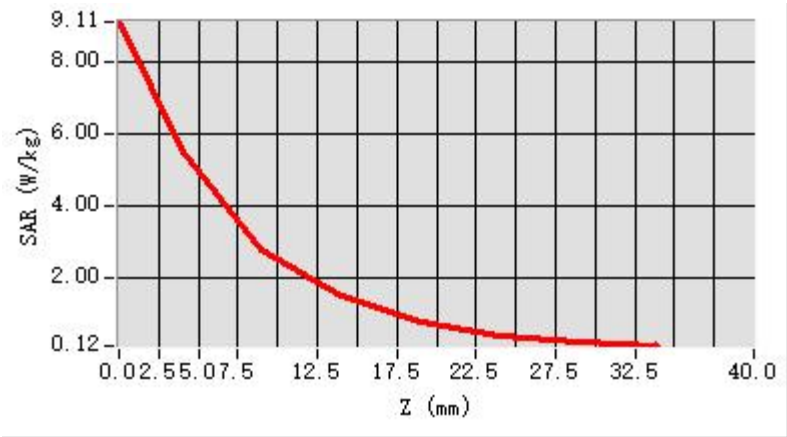
Maximum location: X=1.00, Y=-1.00 ; SAR Peak: 9.02 W/kg

D. SAR 1g & 10g

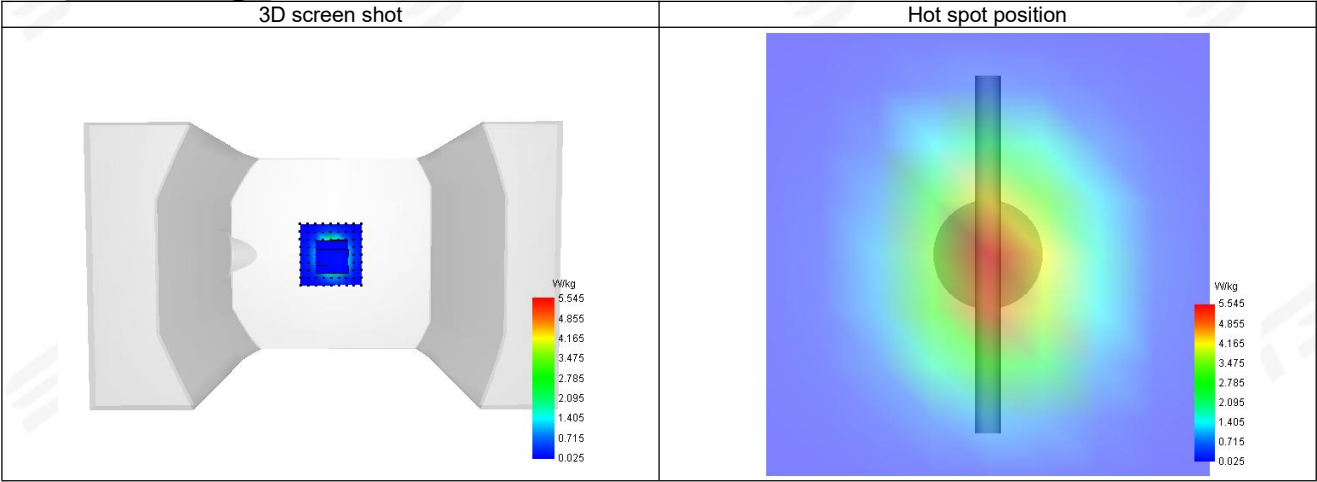
SAR 10g (W/Kg)	2.404
SAR 1g (W/Kg)	5.587
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	51.056495

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	9.114	5.509	2.813	1.509	0.793	0.417	0.219



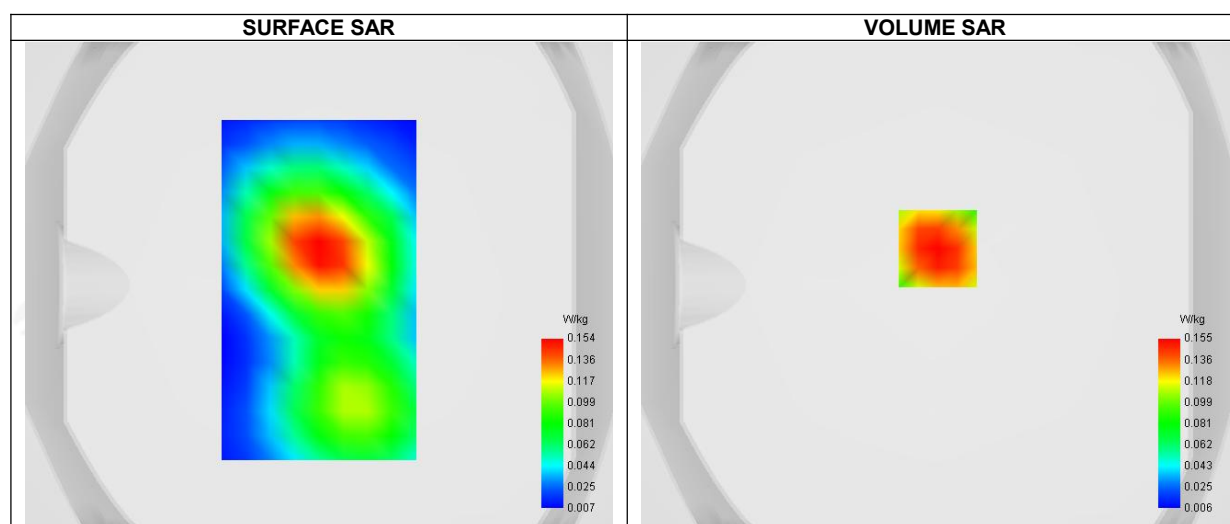
F. 3D Image



Appendix B. SAR Test Plots

Plot 1: DUT: 4G Poc Radio ; EUT Model: N180

Test Date	2026-05-18
ConvF	1.73
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Face up
Band	LTE Band 2 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1860
Relative permittivity (real part)	40.65
Conductivity (S/m)	1.37



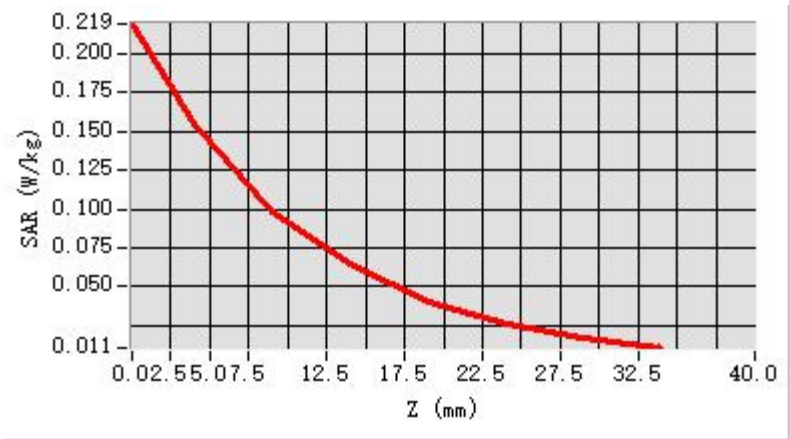
Maximum location: X=1.00, Y=15.00 ; SAR Peak: 0.22 W/kg

D. SAR 1g & 10g

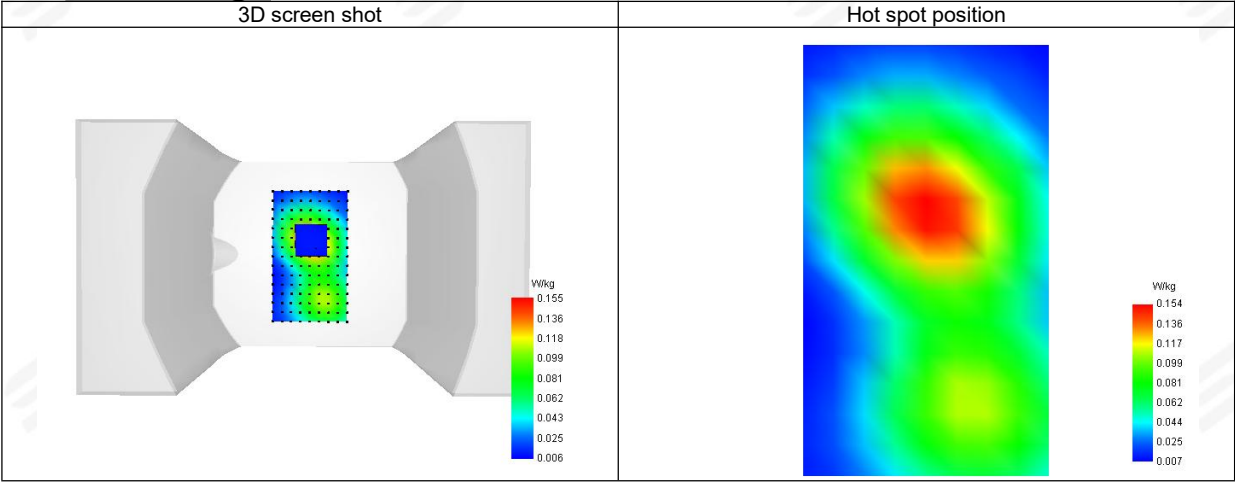
SAR 10g (W/Kg)	0.093
SAR 1g (W/Kg)	0.149
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	70.776255

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.219	0.155	0.099	0.064	0.040	0.026	0.017

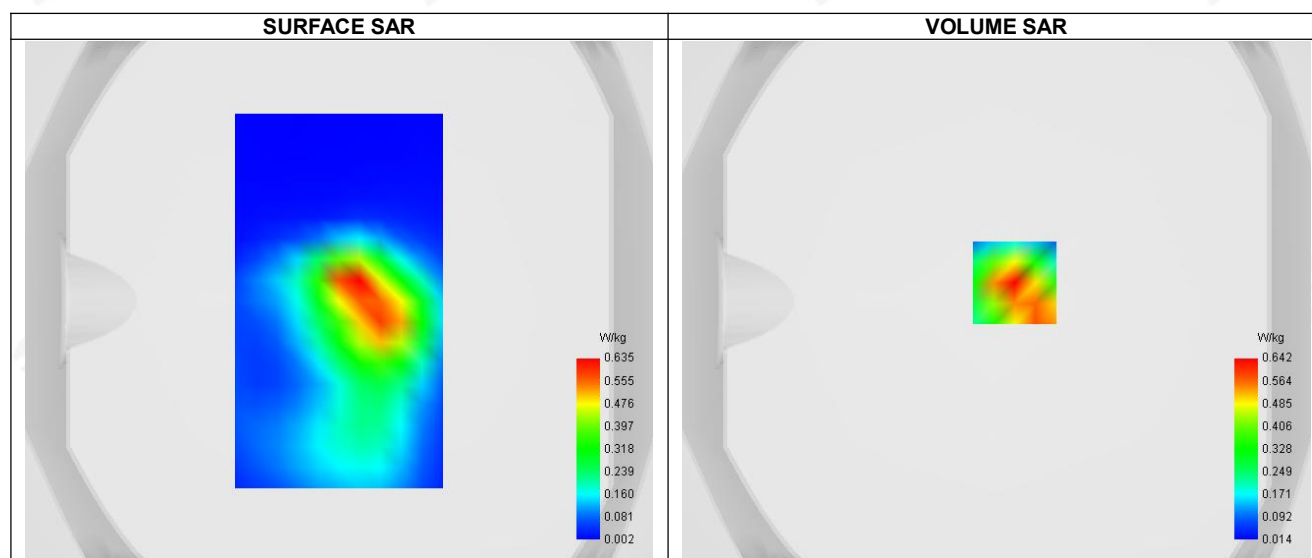


F. 3D Image



Plot 2: DUT: 4G Poc Radio ; EUT Model: N180

Test Date	2026-05-18
ConvF	1.73
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back+Clip side
Band	LTE Band 2 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1860
Relative permittivity (real part)	40.65
Conductivity (S/m)	1.37



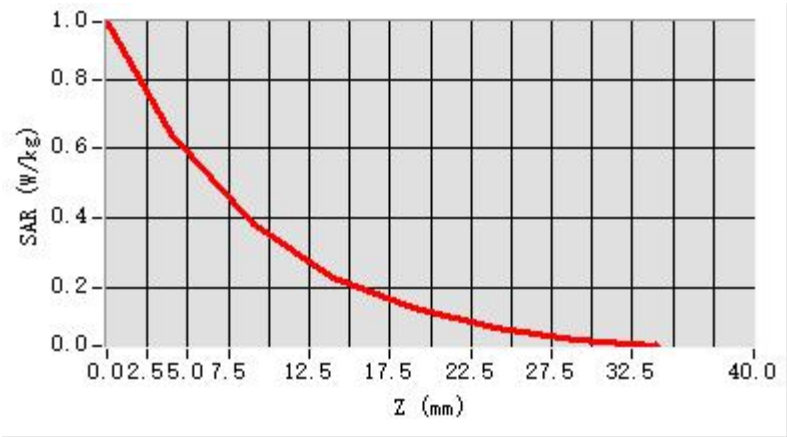
Maximum location: X=7.00, Y=7.00 ; SAR Peak: 0.97 W/kg

D. SAR 1g & 10g

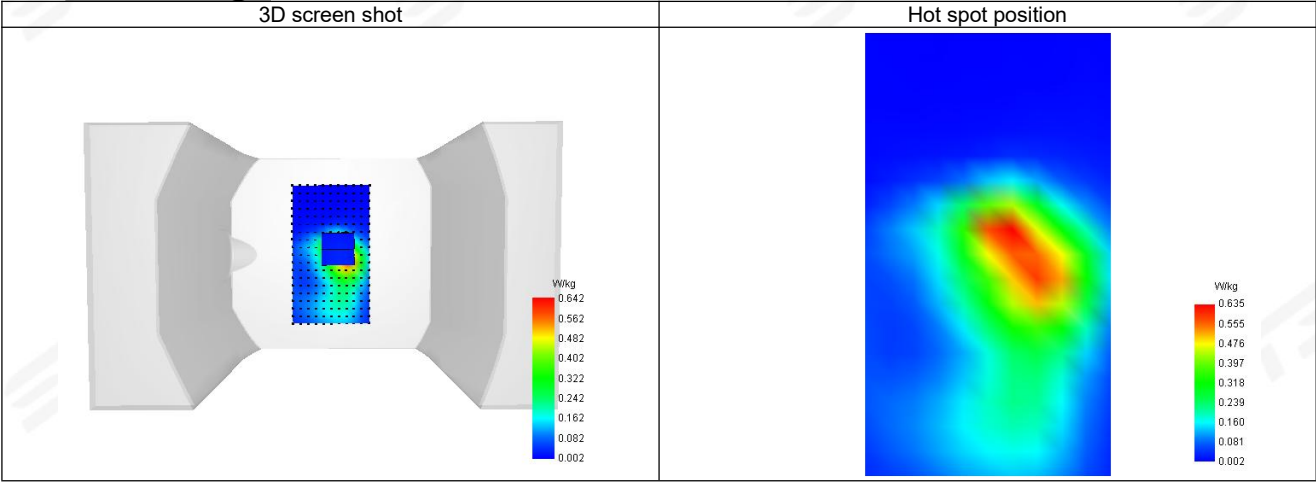
SAR 10g (W/Kg)	0.317
SAR 1g (W/Kg)	0.547
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	59.402802

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.965	0.642	0.381	0.229	0.140	0.085	0.051

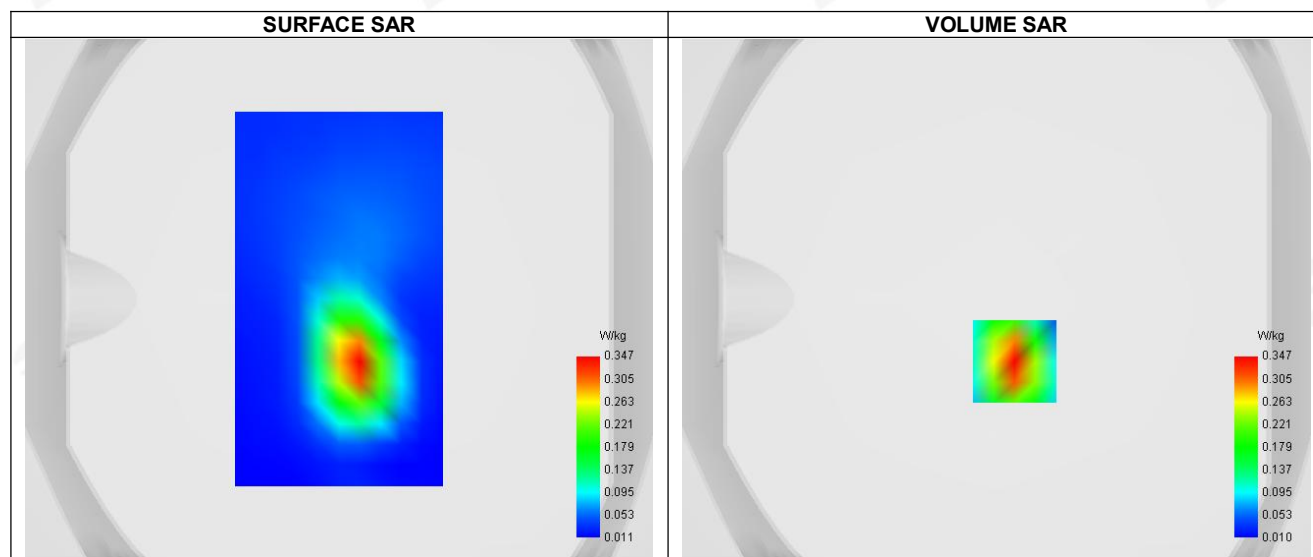


F. 3D Image



Plot 3: DUT: 4G Poc Radio ; EUT Model: N180

Test Date	2026-05-17
ConvF	1.54
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Face up
Band	LTE Band 4 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1720
Relative permittivity (real part)	40.25
Conductivity (S/m)	1.34



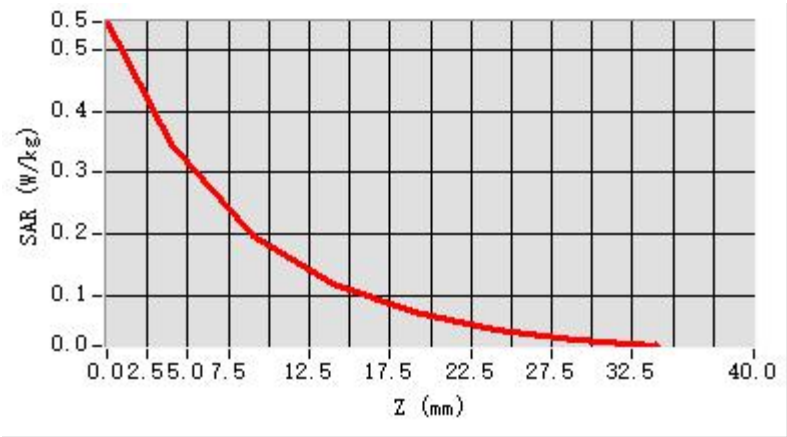
Maximum location: X=7.00, Y=-24.00 ; SAR Peak: 0.54 W/kg

D. SAR 1g & 10g

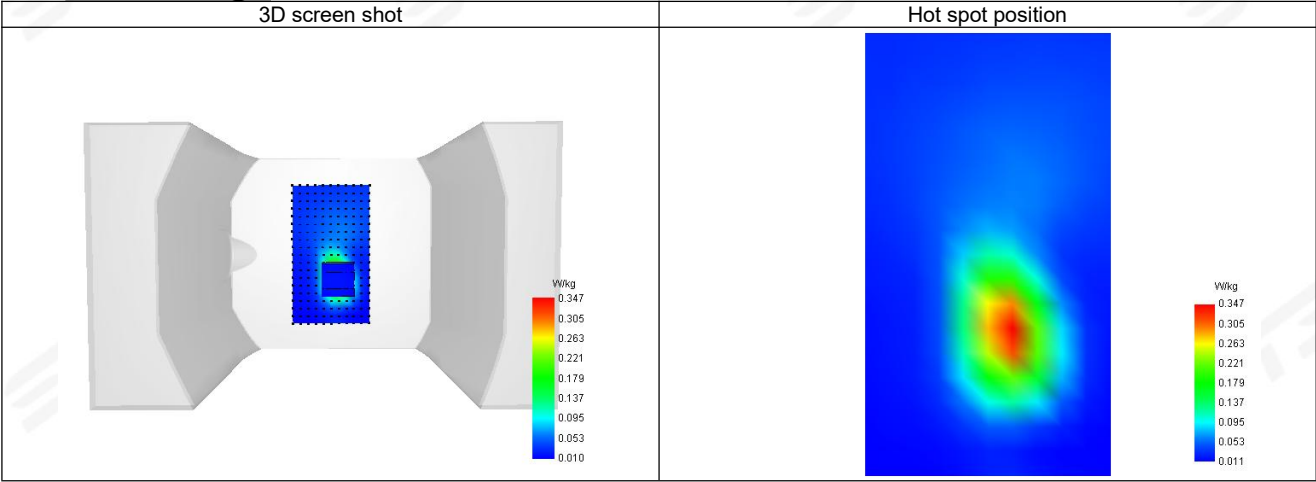
SAR 10g (W/Kg)	0.169
SAR 1g (W/Kg)	0.323
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	56.885591

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.544	0.347	0.197	0.119	0.075	0.045	0.027

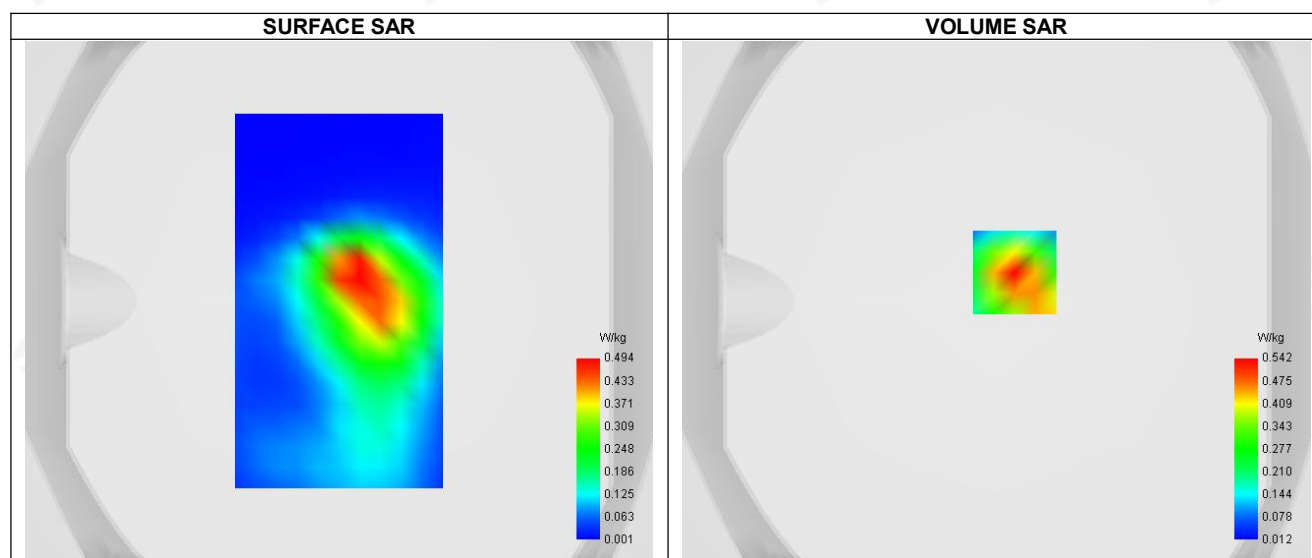


F. 3D Image



Plot 4: DUT: 4G Poc Radio ; EUT Model: N180

Test Date	2026-05-17
ConvF	1.54
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back+Clip side
Band	LTE Band 4 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1720
Relative permittivity (real part)	40.25
Conductivity (S/m)	1.34



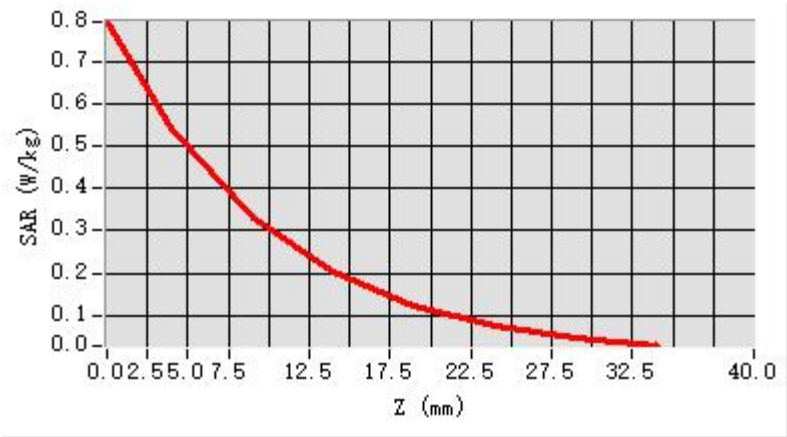
Maximum location: X=7.00, Y=11.00 ; SAR Peak: 0.79 W/kg

D. SAR 1g & 10g

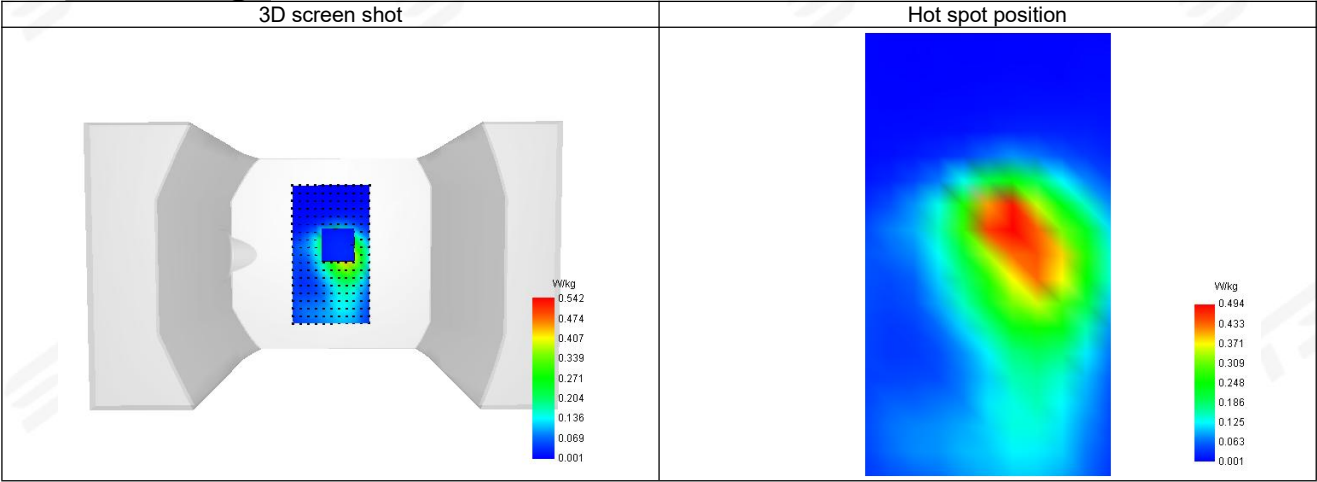
SAR 10g (W/Kg)	0.272
SAR 1g (W/Kg)	0.499
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	61.188987

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.792	0.542	0.331	0.204	0.125	0.077	0.047

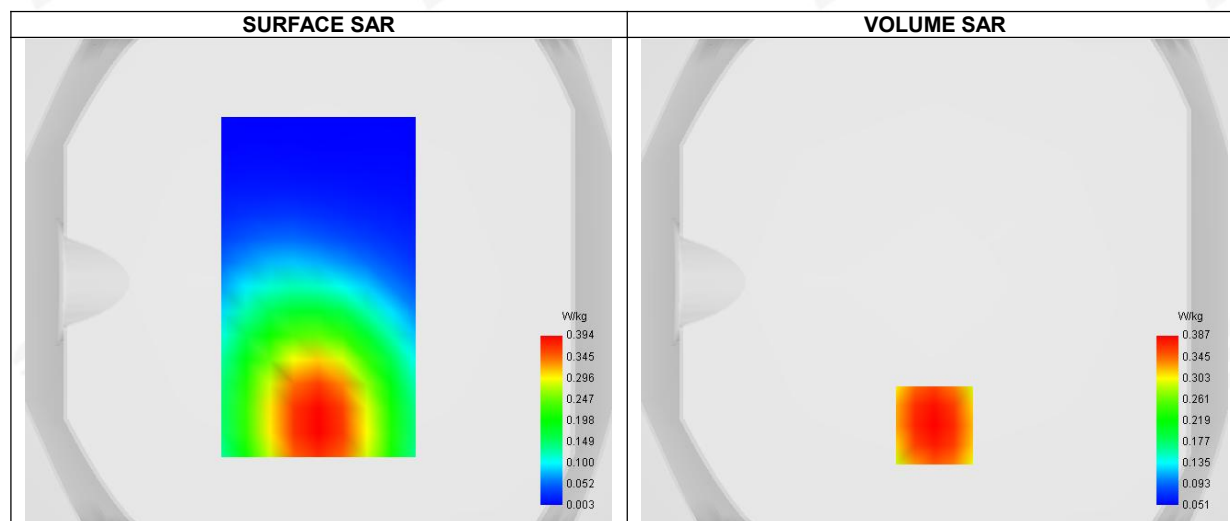


F. 3D Image



Plot 5: DUT: 4G Poc Radio ; EUT Model: N180

Test Date	2026-05-17
ConvF	1.49
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Face up
Band	LTE Band 5 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	829
Relative permittivity (real part)	41.42
Conductivity (S/m)	0.91



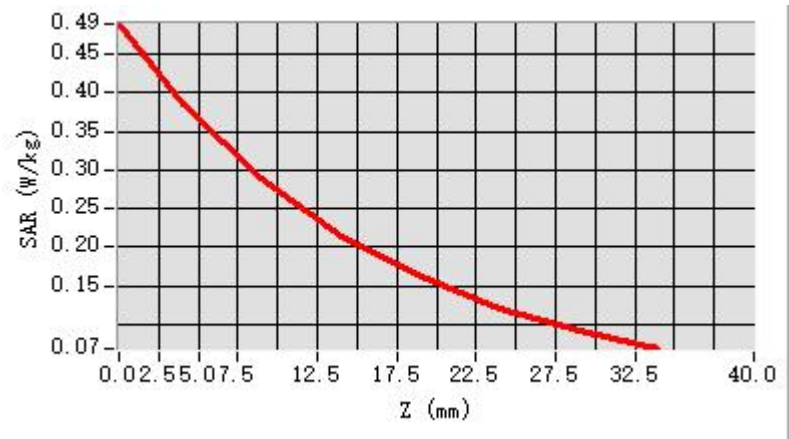
Maximum location: X=0.00, Y=-59.00 ; SAR Peak: 0.49 W/kg

D. SAR 1g & 10g

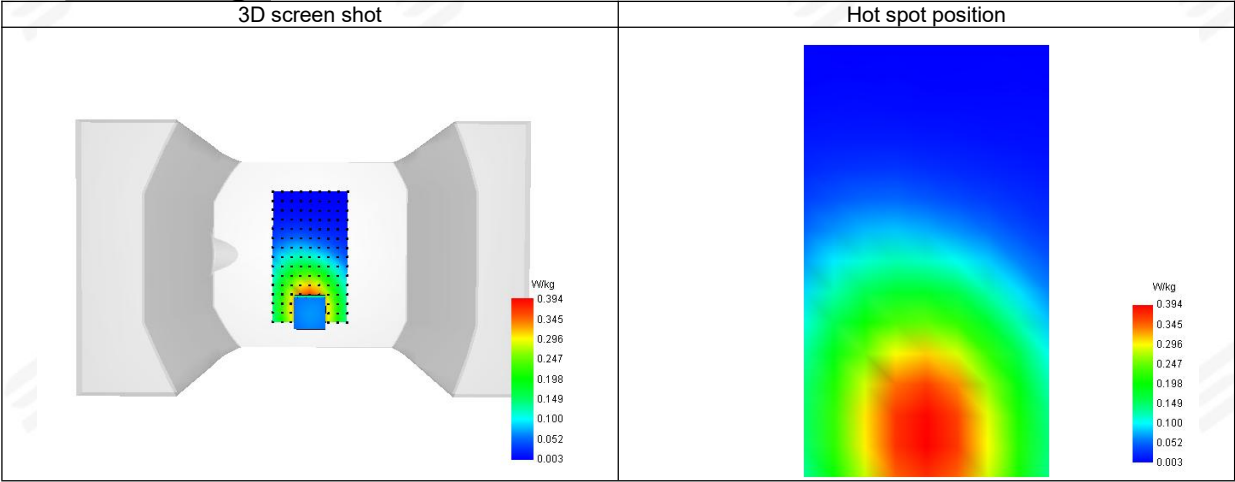
SAR 10g (W/Kg)	0.269
SAR 1g (W/Kg)	0.374
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	74.677025

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.489	0.387	0.289	0.215	0.162	0.122	0.091

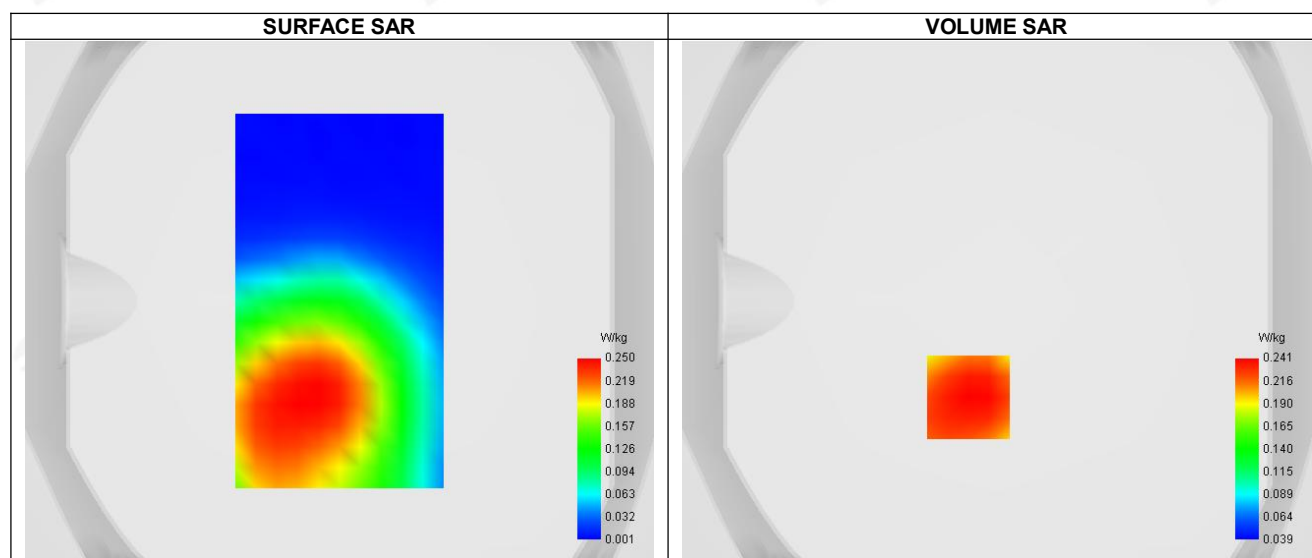


F. 3D Image



Plot 6: DUT: 4G Poc Radio ; EUT Model: N180

Test Date	2026-05-17
ConvF	1.49
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back+Clip side
Band	LTE Band 5 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	829
Relative permittivity (real part)	41.42
Conductivity (S/m)	0.91



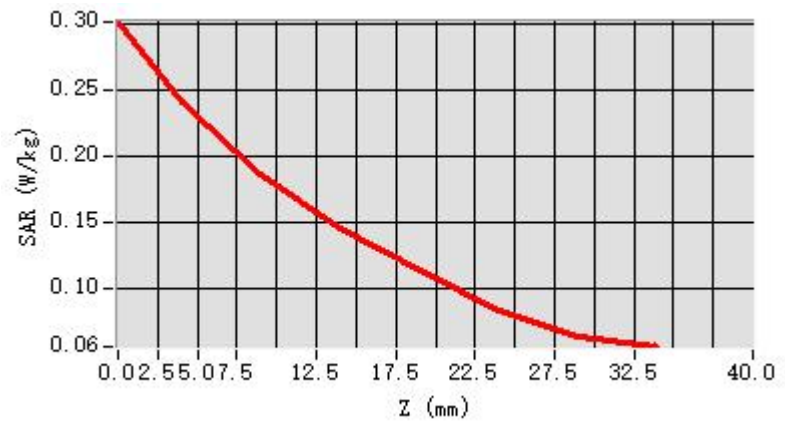
Maximum location: X=-11.00, Y=-37.00 ; SAR Peak: 0.31 W/kg

D. SAR 1g & 10g

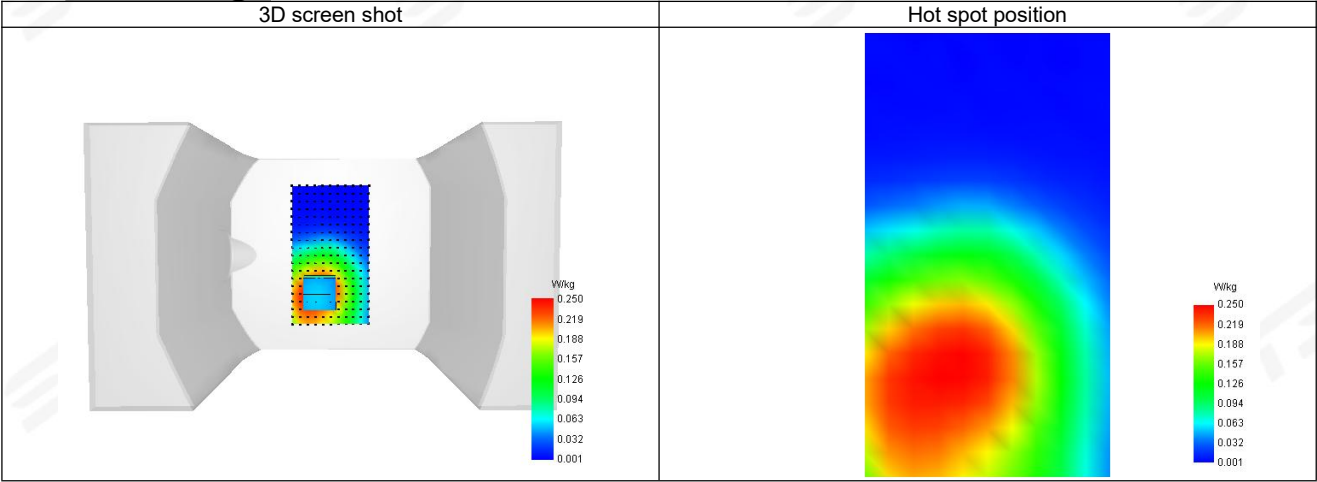
SAR 10g (W/Kg)	0.175
SAR 1g (W/Kg)	0.245
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	75.901324

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.302	0.241	0.186	0.146	0.113	0.083	0.063

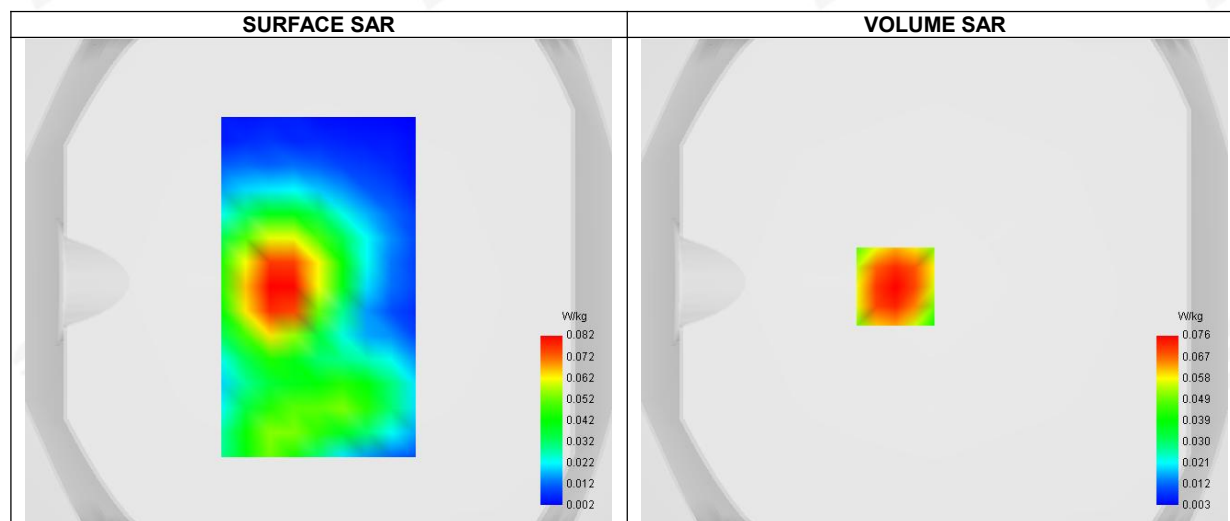


F. 3D Image



Plot 7: DUT: 4G Poc Radio ; EUT Model: N180

Test Date	2026-05-18
ConvF	1.70
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Face up
Band	LTE Band 7 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2535
Relative permittivity (real part)	39.22
Conductivity (S/m)	1.88



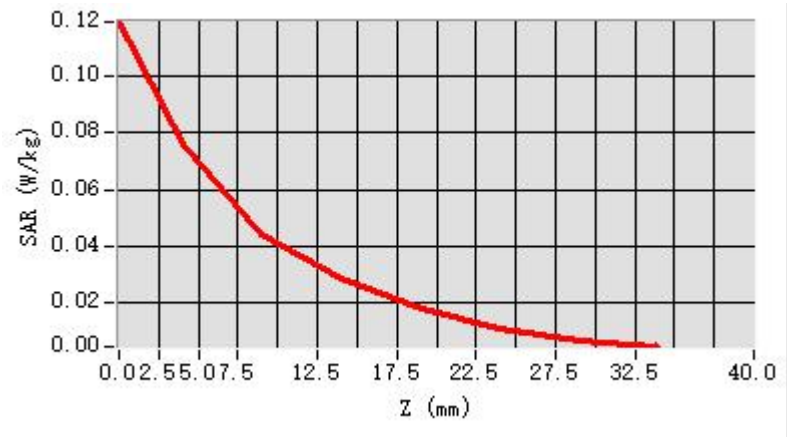
Maximum location: X=-16.00, Y=-2.00 ; SAR Peak: 0.12 W/kg

D. SAR 1g & 10g

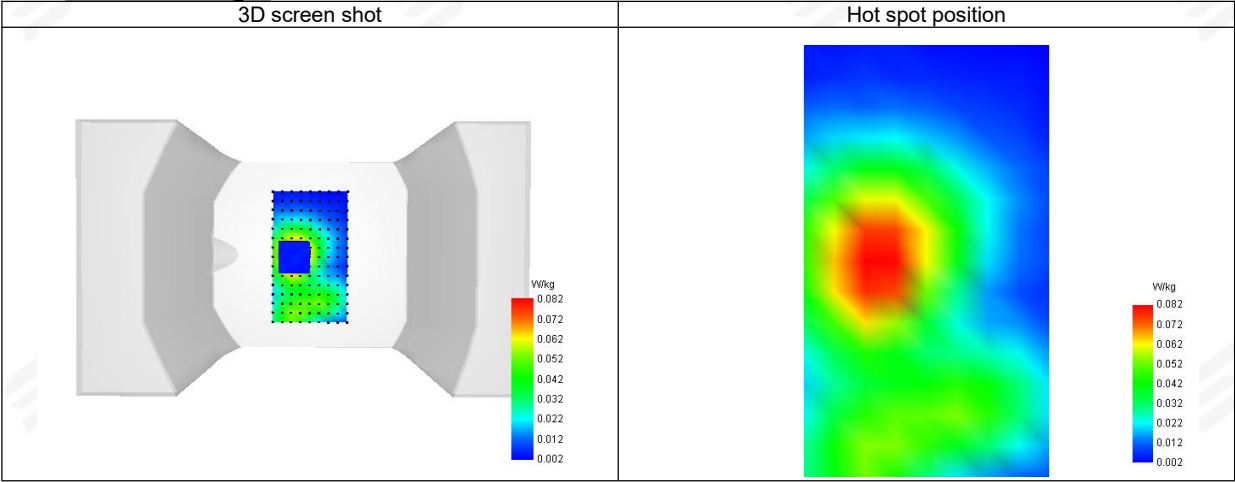
SAR 10g (W/Kg)	0.044
SAR 1g (W/Kg)	0.075
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	57.894732

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.119	0.076	0.044	0.029	0.018	0.011	0.007

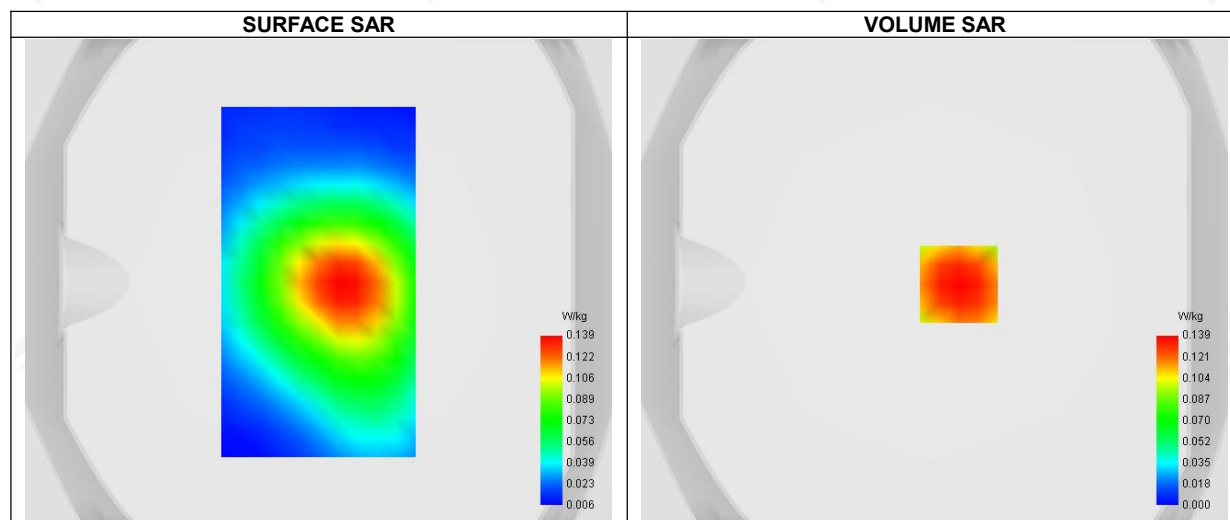


F. 3D Image



Plot 8: DUT: 4G Poc Radio ; EUT Model: N180

Test Date	2026-05-18
ConvF	1.70
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back+Clip side
Band	LTE Band 7 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2535
Relative permittivity (real part)	39.22
Conductivity (S/m)	1.88



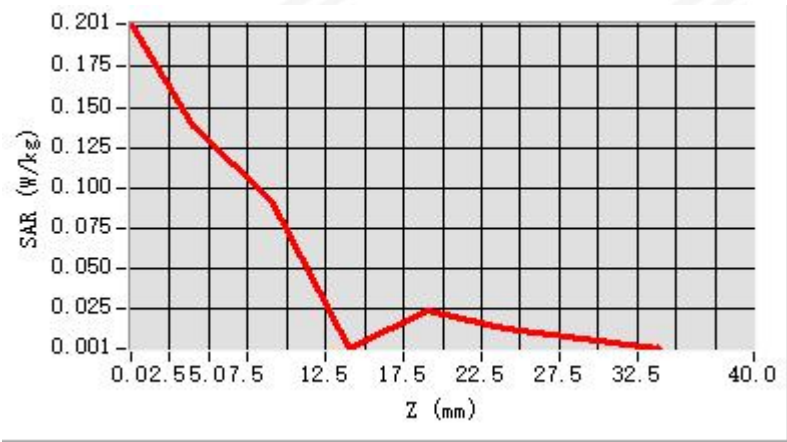
Maximum location: X=10.00, Y=-1.00 ; SAR Peak: 0.36 W/kg

D. SAR 1g & 10g

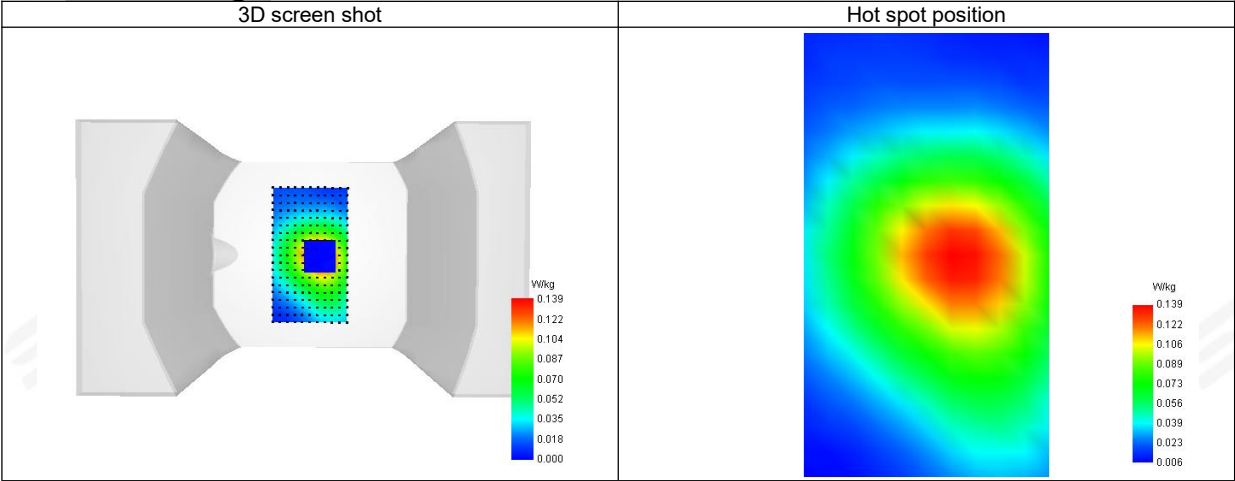
SAR 10g (W/Kg)	0.062
SAR 1g (W/Kg)	0.156
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	66.187050

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.201	0.139	0.092	0.001	0.024	0.013	0.007

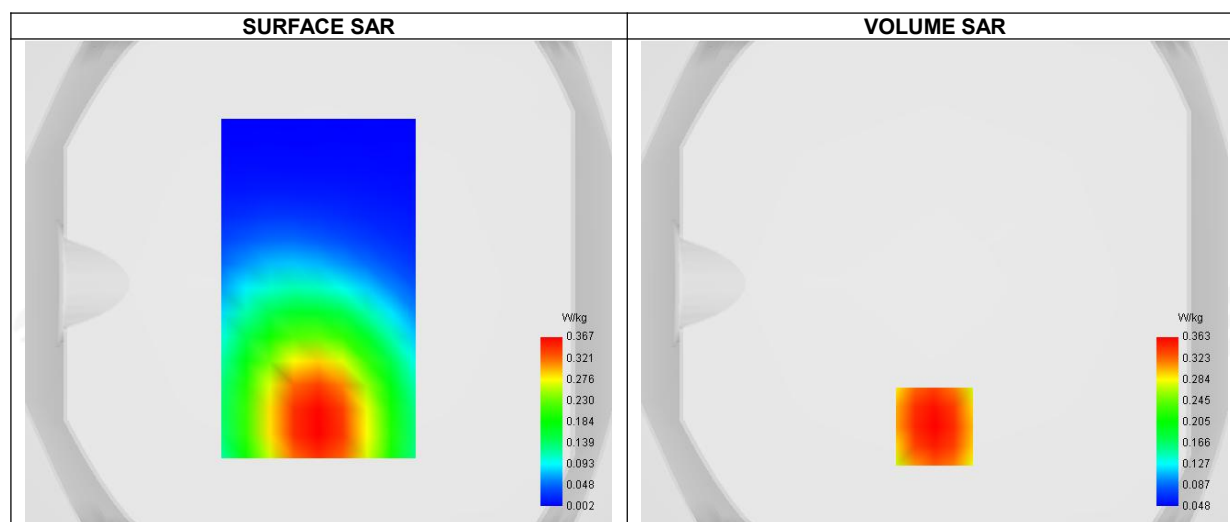


F. 3D Image



Plot 9: DUT: 4G Poc Radio ; EUT Model: N180

Test Date	2026-05-17
ConvF	1.51
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Face up
Band	LTE Band 12 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	711
Relative permittivity (real part)	42.20
Conductivity (S/m)	0.89



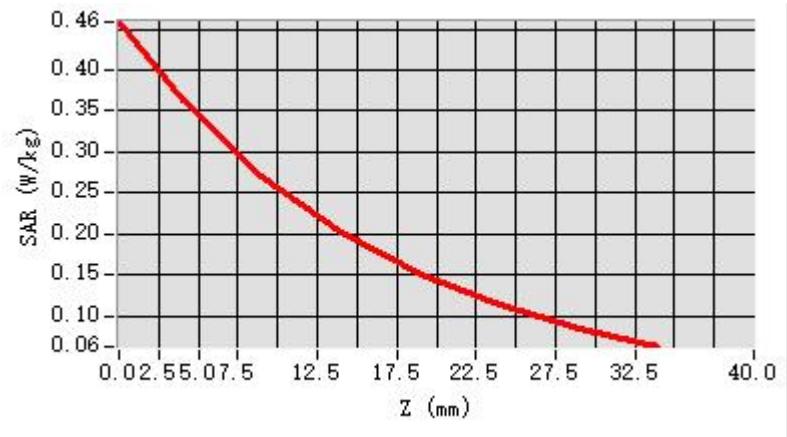
Maximum location: X=0.00, Y=-59.00 ; SAR Peak: 0.46 W/kg

D. SAR 1g & 10g

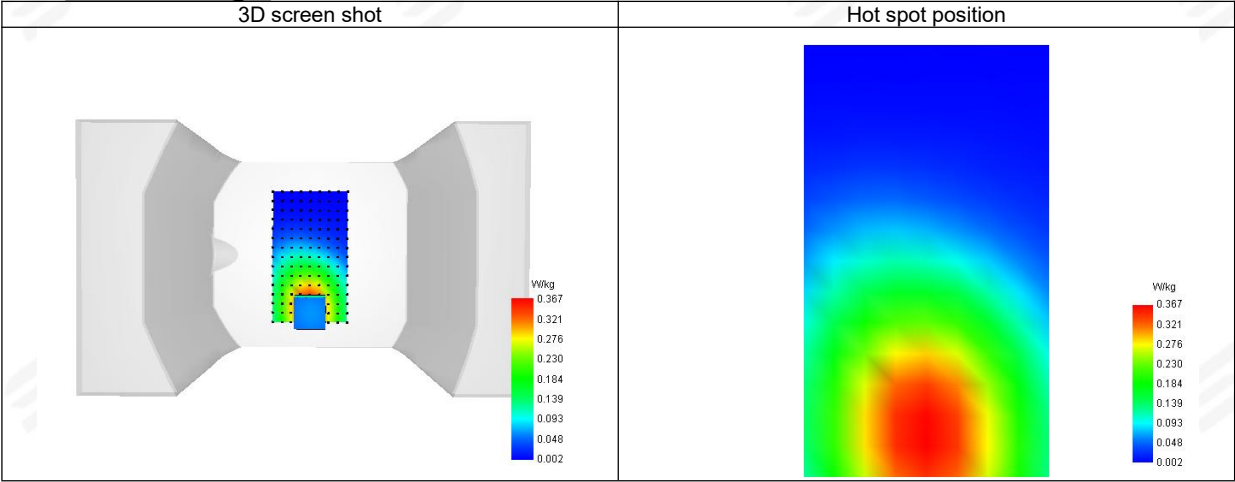
SAR 10g (W/Kg)	0.252
SAR 1g (W/Kg)	0.351
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	74.380165

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.459	0.363	0.270	0.203	0.152	0.113	0.085

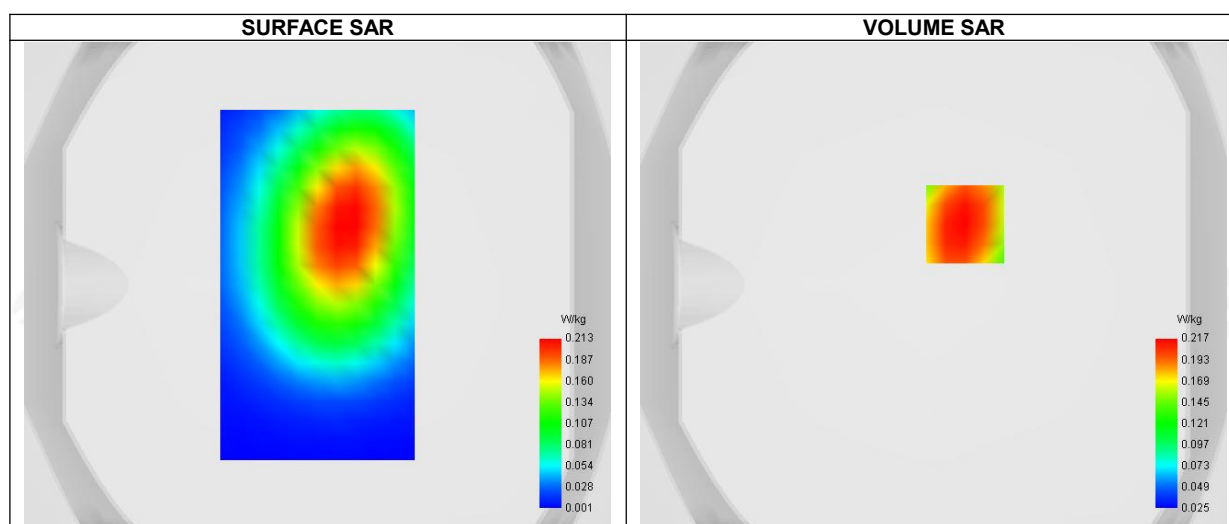


F. 3D Image



Plot 10: DUT: 4G Poc Radio ; EUT Model: N180

Test Date	2026-05-17
ConvF	1.51
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back+Clip side
Band	LTE Band 12 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	711
Relative permittivity (real part)	42.20
Conductivity (S/m)	0.89



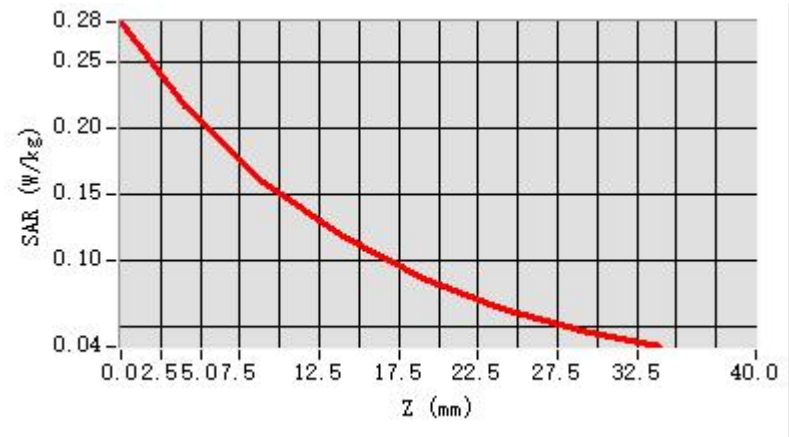
Maximum location: X=13.00, Y=25.00 ; SAR Peak: 0.28 W/kg

D. SAR 1g & 10g

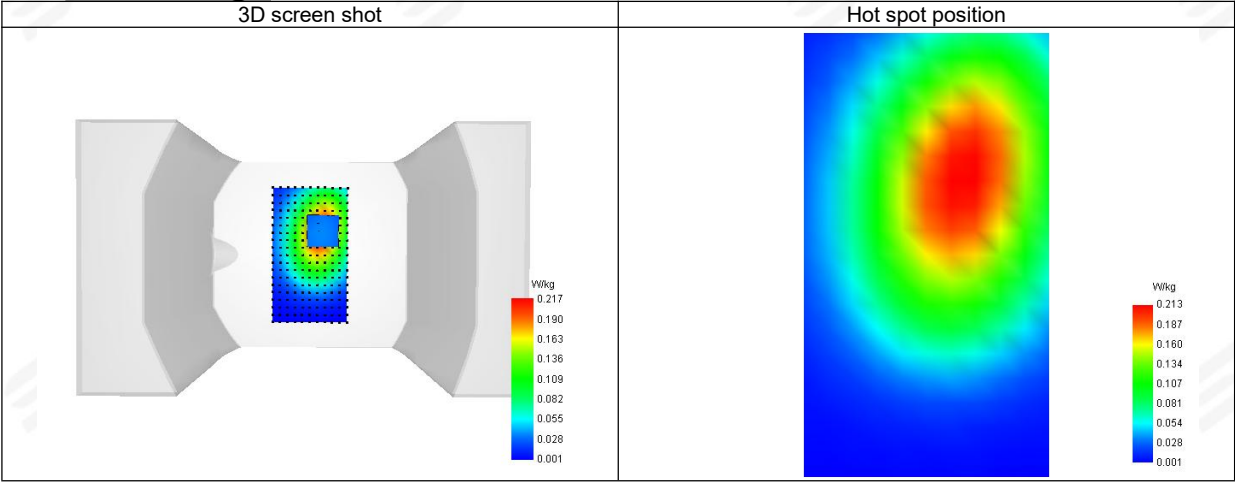
SAR 10g (W/Kg)	0.147
SAR 1g (W/Kg)	0.210
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	73.271889

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.280	0.217	0.159	0.117	0.087	0.064	0.047

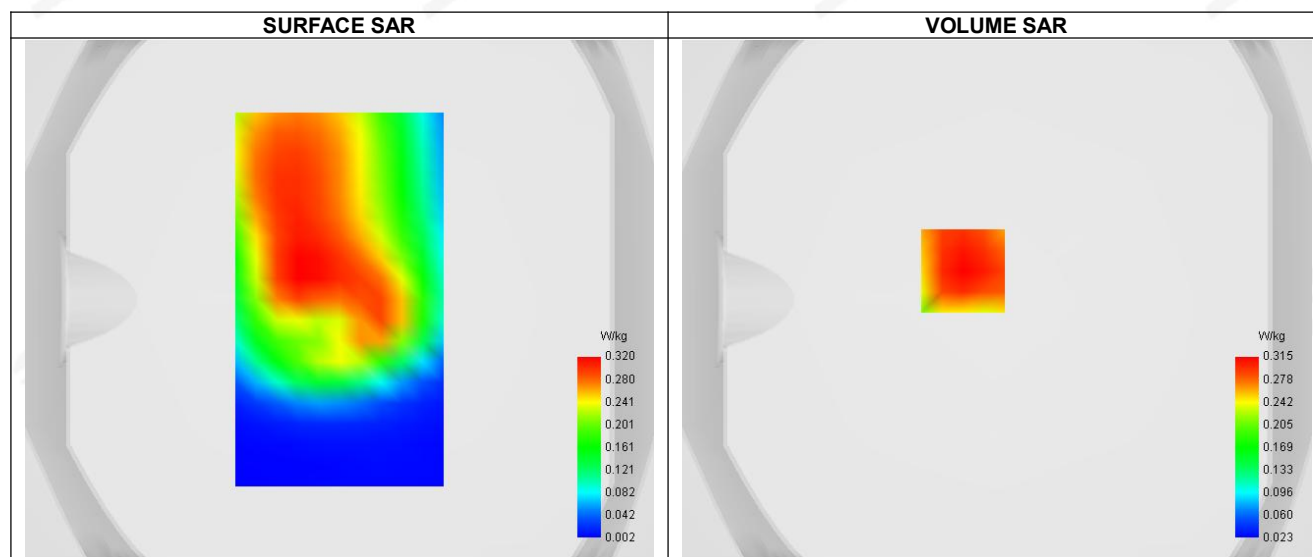


F. 3D Image



Plot 11: DUT: 4G Poc Radio ; EUT Model: N180

Test Date	2026-05-17
ConvF	1.51
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Face up
Band	LTE Band 13 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	782
Relative permittivity (real part)	42.63
Conductivity (S/m)	0.89



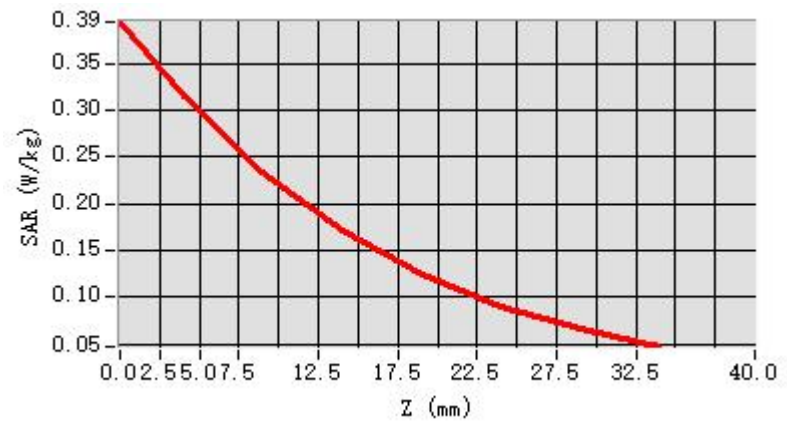
Maximum location: X=-13.00, Y=11.00 ; SAR Peak: 0.40 W/kg

D. SAR 1g & 10g

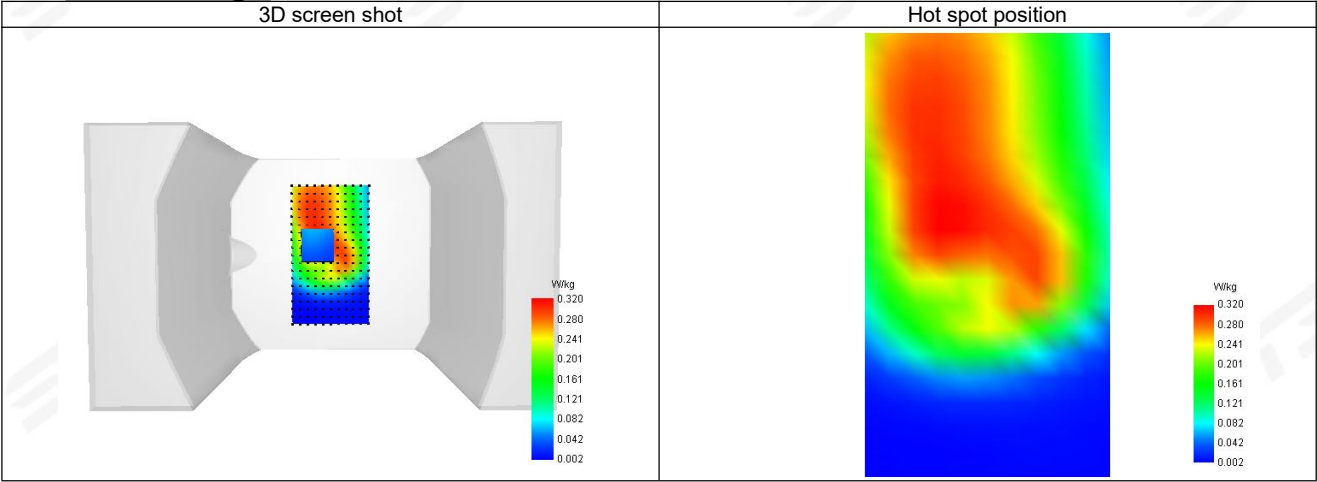
SAR 10g (W/Kg)	0.199
SAR 1g (W/Kg)	0.304
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	73.96825

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.394	0.315	0.233	0.171	0.124	0.090	0.066

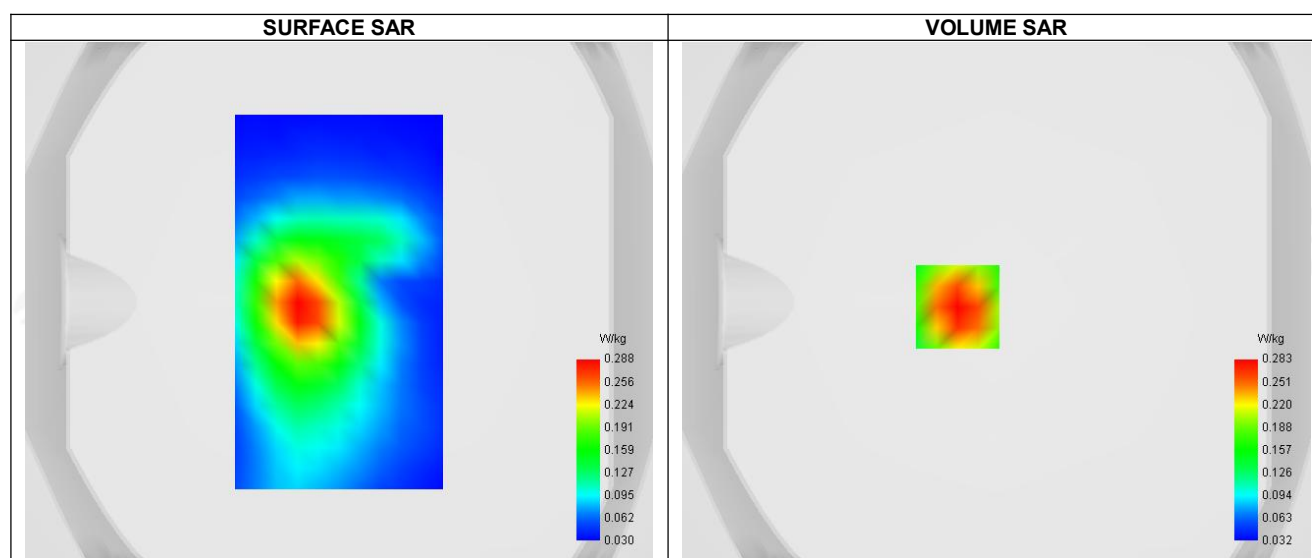


F. 3D Image



Plot 12: DUT: 4G Poc Radio ; EUT Model: N180

Test Date	2026-05-17
ConvF	1.51
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back+Clip side
Band	LTE Band 13 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	782
Relative permittivity (real part)	42.63
Conductivity (S/m)	0.89



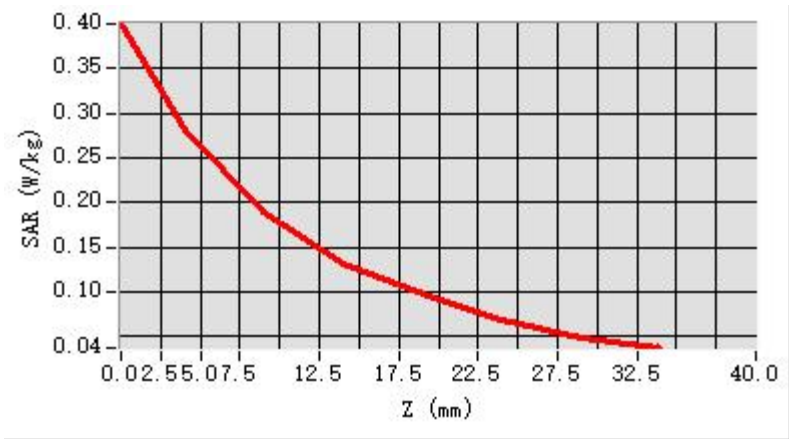
Maximum location: X=-15.00, Y=-2.00 ; SAR Peak: 0.40 W/kg

D. SAR 1g & 10g

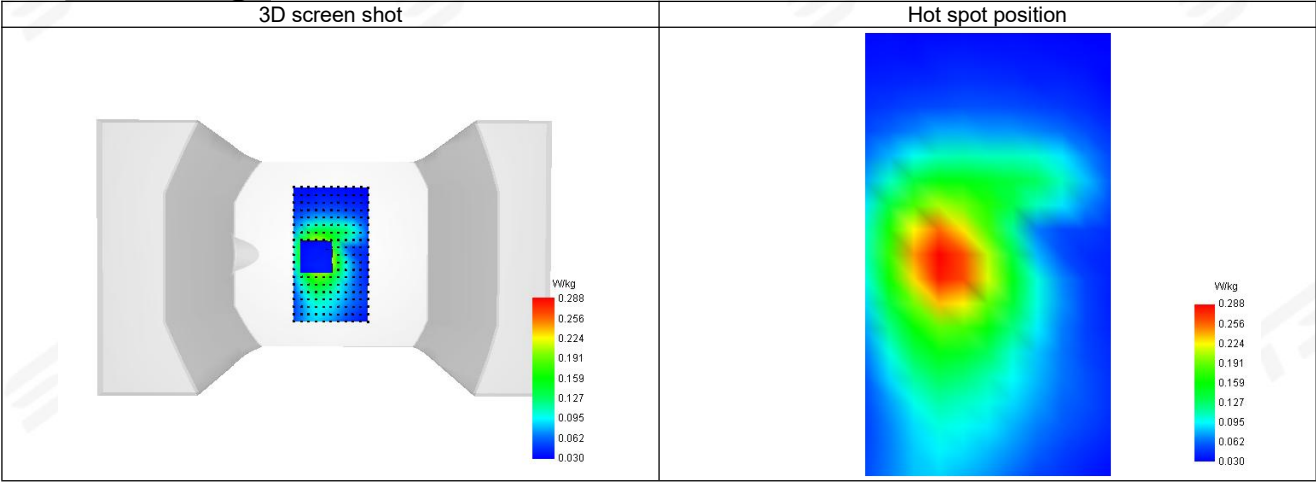
SAR 10g (W/Kg)	0.176
SAR 1g (W/Kg)	0.233
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	67.165075

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.400	0.283	0.190	0.131	0.097	0.069	0.049

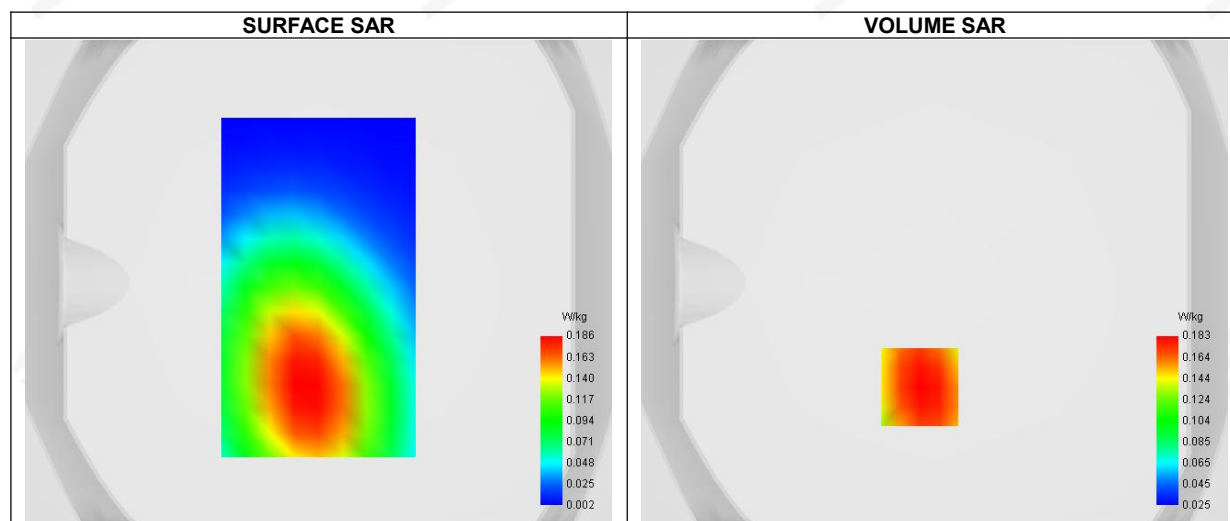


F. 3D Image



Plot 13: DUT: 4G Poc Radio ; EUT Model: N180

Test Date	2026-05-17
ConvF	1.51
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Face up
Band	LTE Band 17 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	711
Relative permittivity (real part)	42.20
Conductivity (S/m)	0.89



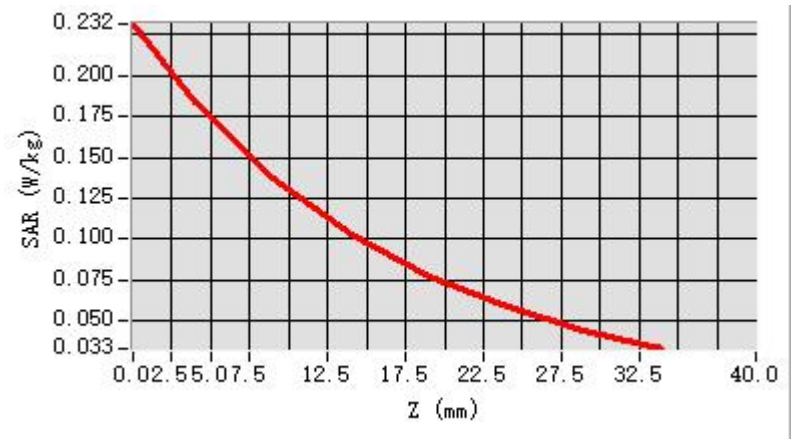
Maximum location: X=-6.00, Y=-43.00 ; SAR Peak: 0.23 W/kg

D. SAR 1g & 10g

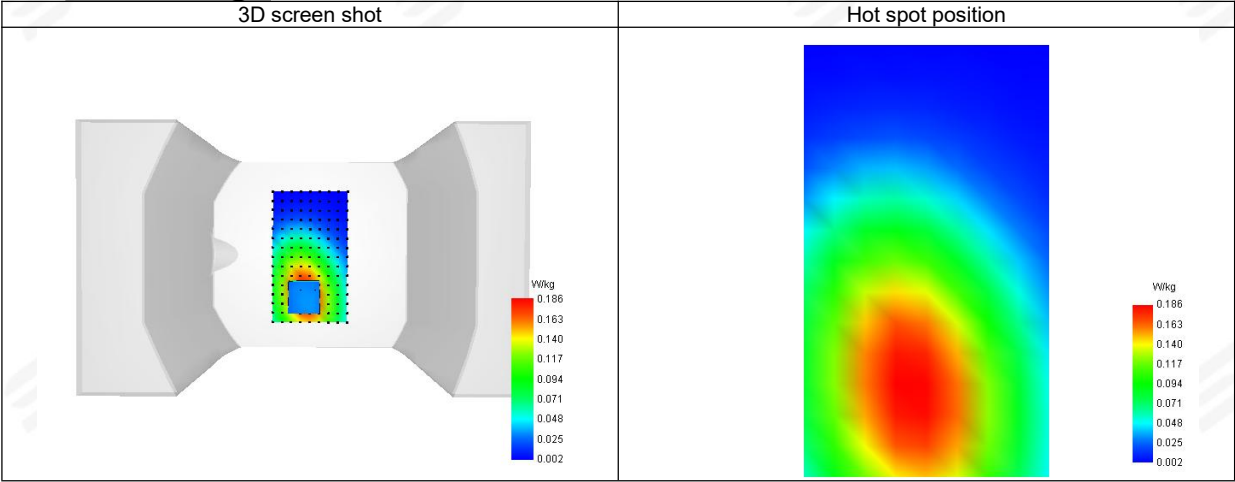
SAR 10g (W/Kg)	0.128
SAR 1g (W/Kg)	0.178
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	74.863387

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.232	0.183	0.137	0.103	0.078	0.058	0.044

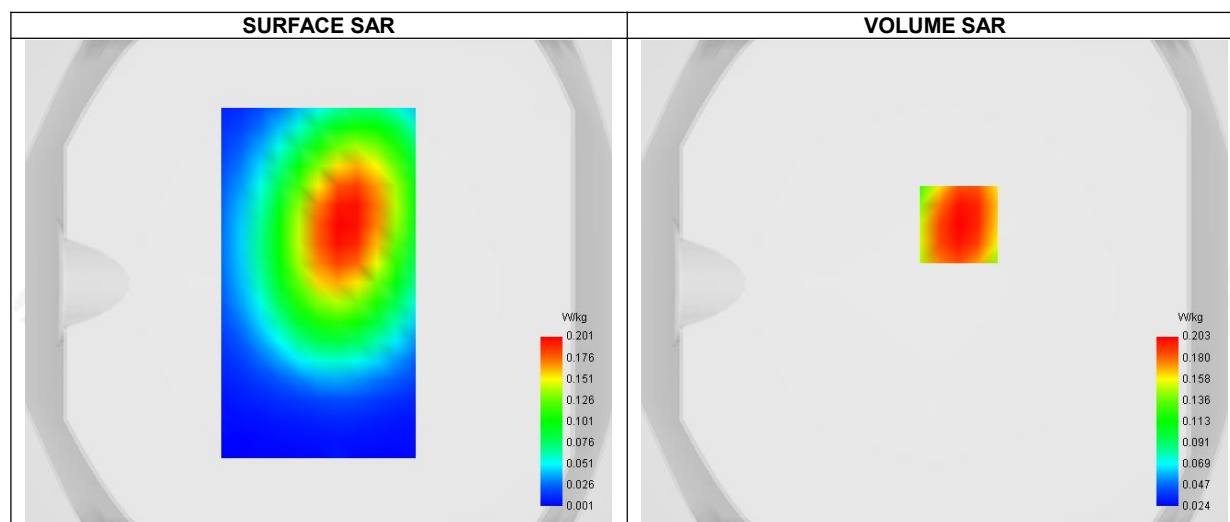


F. 3D Image



Plot 14: DUT: 4G Poc Radio ; EUT Model: N180

Test Date	2026-05-17
ConvF	1.51
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back+Clip side
Band	LTE Band 17 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	711
Relative permittivity (real part)	42.20
Conductivity (S/m)	0.89



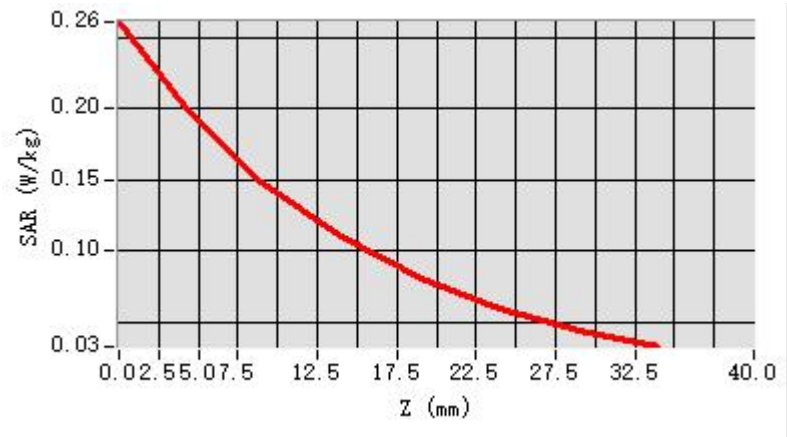
Maximum location: X=10.00, Y=24.00 ; SAR Peak: 0.26 W/kg

D. SAR 1g & 10g

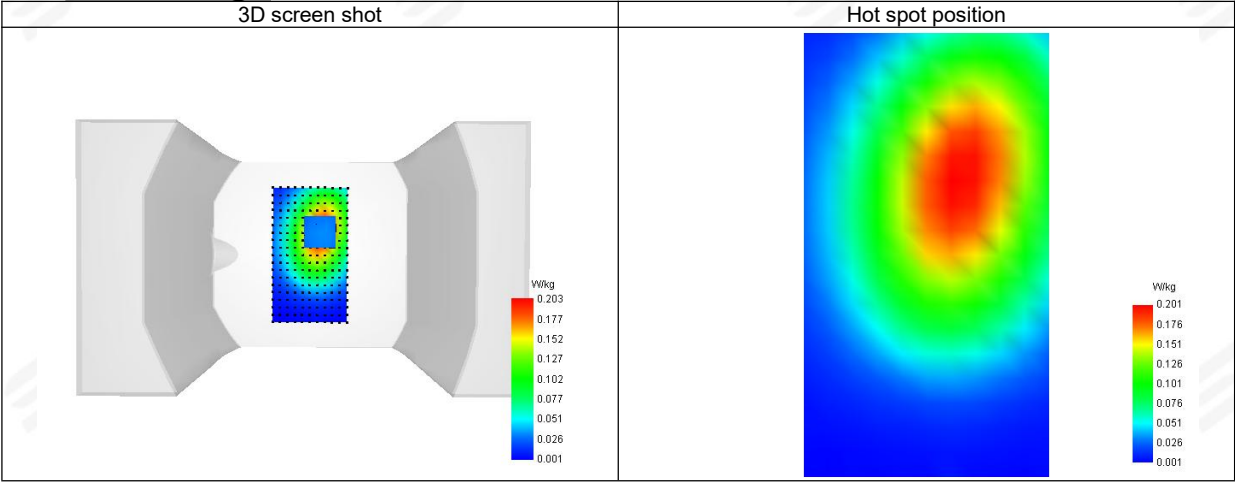
SAR 10g (W/Kg)	0.138
SAR 1g (W/Kg)	0.196
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	73.399041

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.261	0.203	0.149	0.110	0.082	0.060	0.045

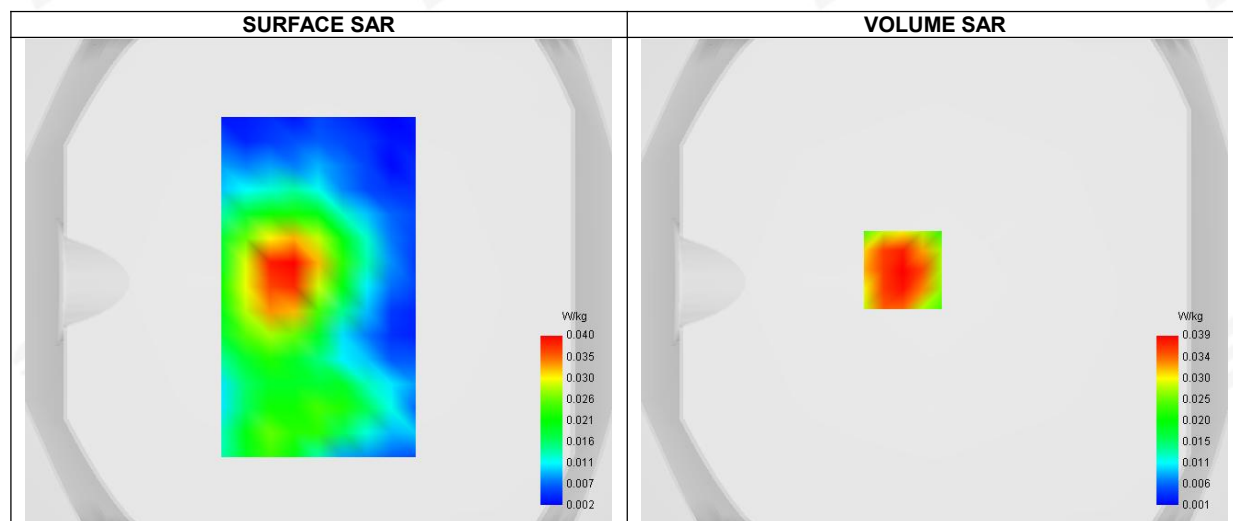


F. 3D Image



Plot 15: DUT: 4G Poc Radio ; EUT Model: N180

Test Date	2026-05-18
ConvF	1.70
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Face up
Band	LTE Band 38 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2580
Relative permittivity (real part)	38.68
Conductivity (S/m)	1.95



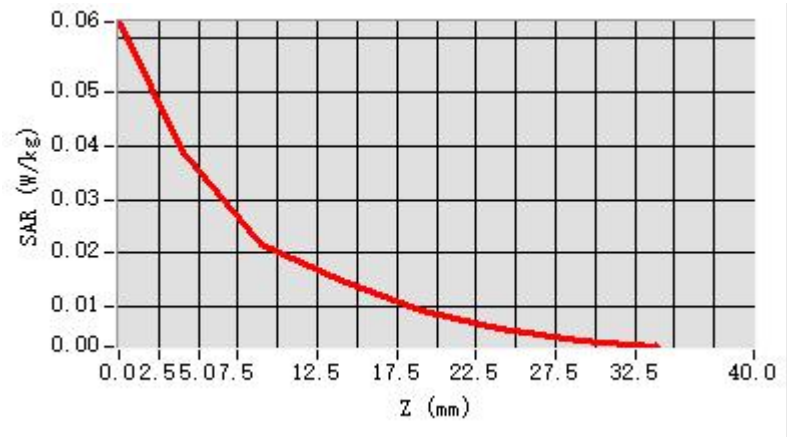
Maximum location: X=-13.00, Y=5.00 ; SAR Peak: 0.06 W/kg

D. SAR 1g & 10g

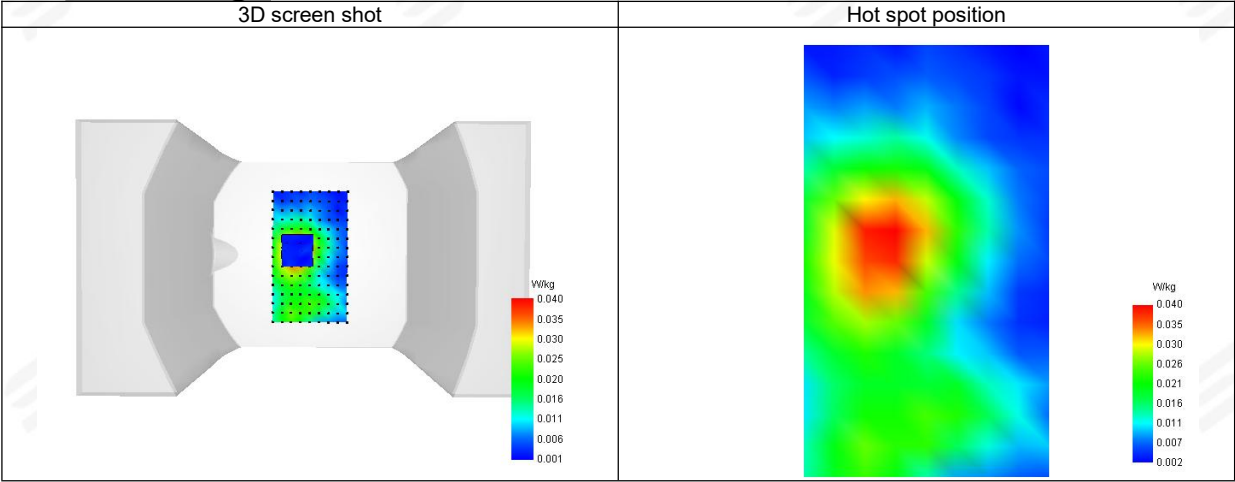
SAR 10g (W/Kg)	0.022
SAR 1g (W/Kg)	0.038
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	56.410256

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.063	0.039	0.022	0.015	0.009	0.006	0.004

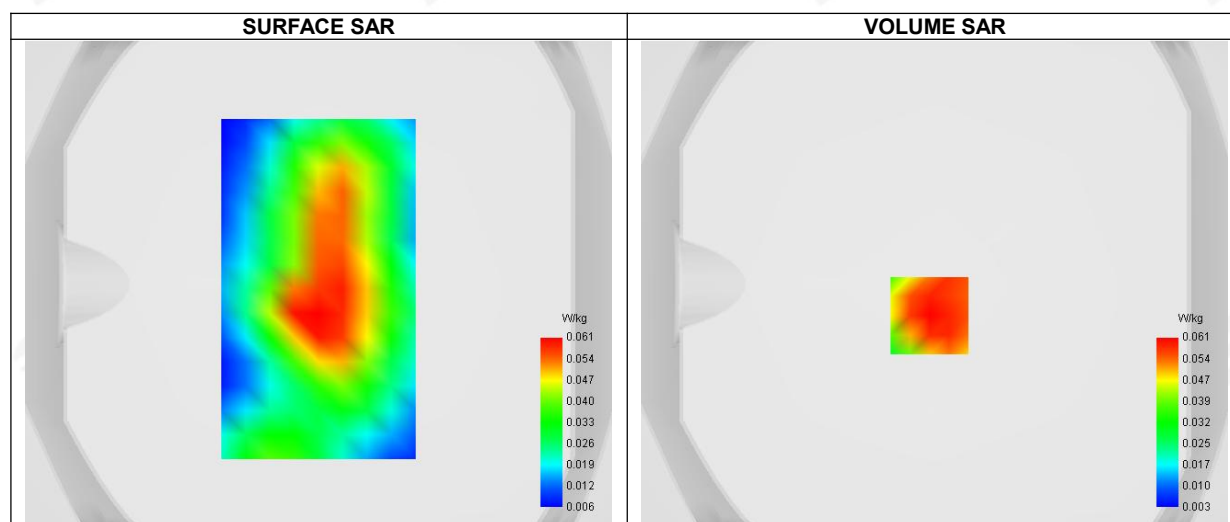


F. 3D Image



Plot 16: DUT: 4G Poc Radio ; EUT Model: N180

Test Date	2026-05-18
ConvF	1.70
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back+Clip side
Band	LTE Band 38 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2580
Relative permittivity (real part)	38.68
Conductivity (S/m)	1.95



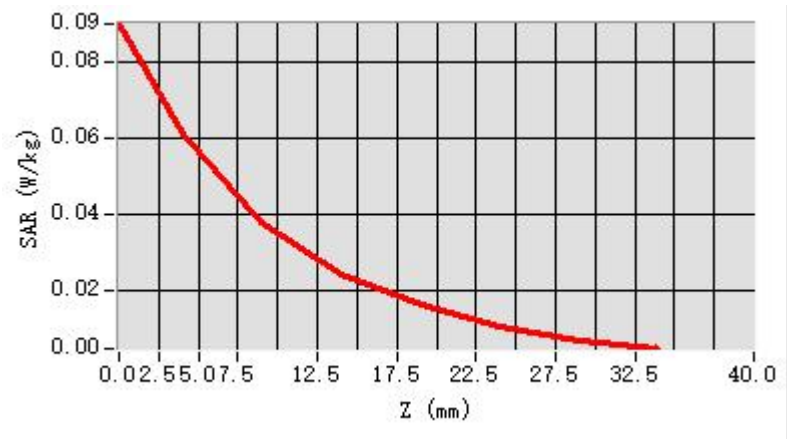
Maximum location: X=-2.00, Y=-13.00 ; SAR Peak: 0.09 W/kg

D. SAR 1g & 10g

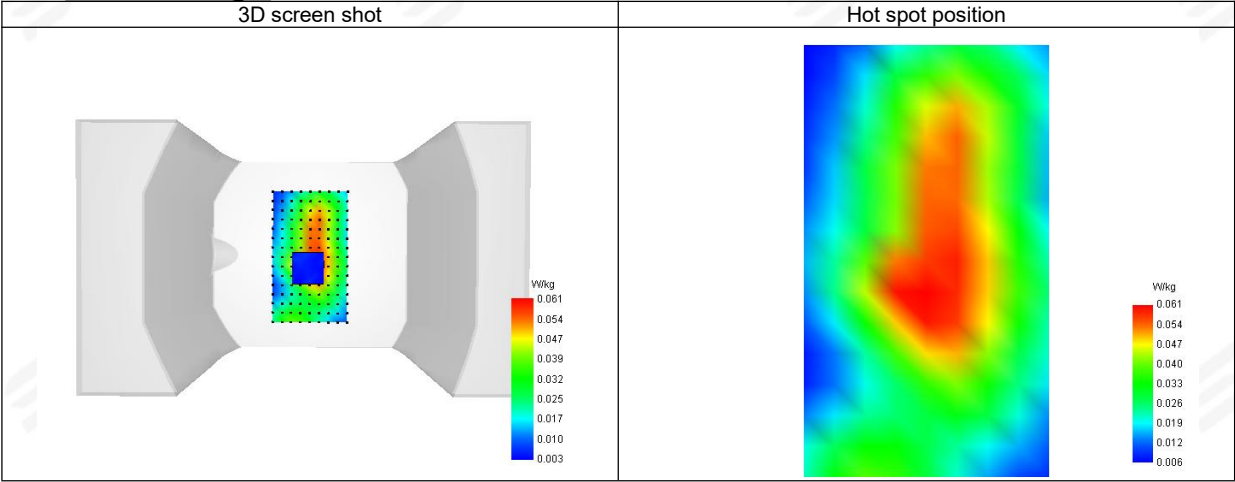
SAR 10g (W/Kg)	0.036
SAR 1g (W/Kg)	0.059
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	62.175357

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.090	0.061	0.038	0.024	0.016	0.010	0.007

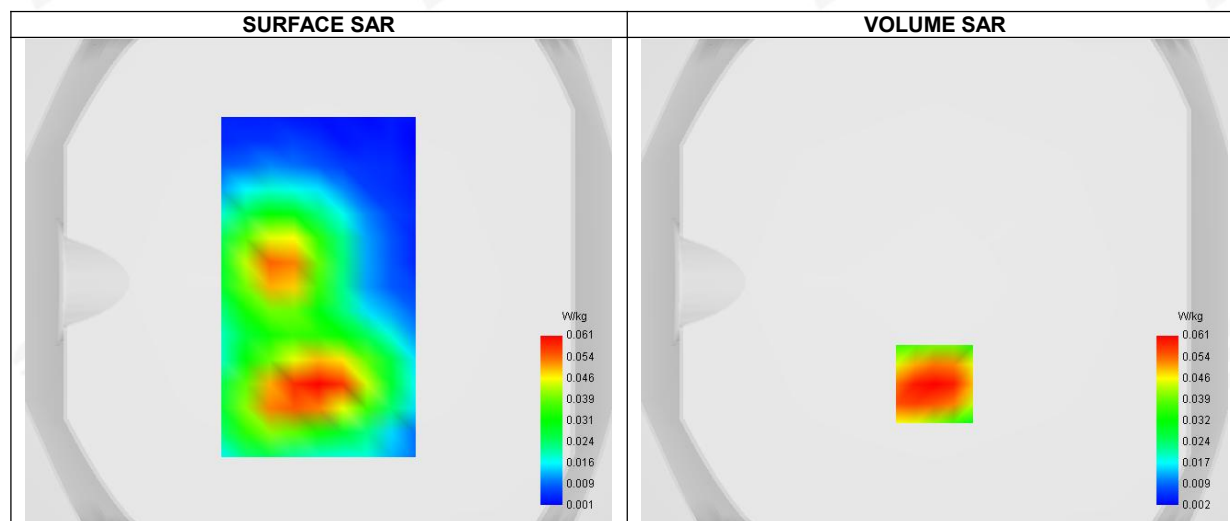


F. 3D Image



Plot 17: DUT: 4G Poc Radio ; EUT Model: N180

Test Date	2026-05-18
ConvF	1.82
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Face up
Band	LTE Band 40(RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2350
Relative permittivity (real part)	39.40
Conductivity (S/m)	1.73



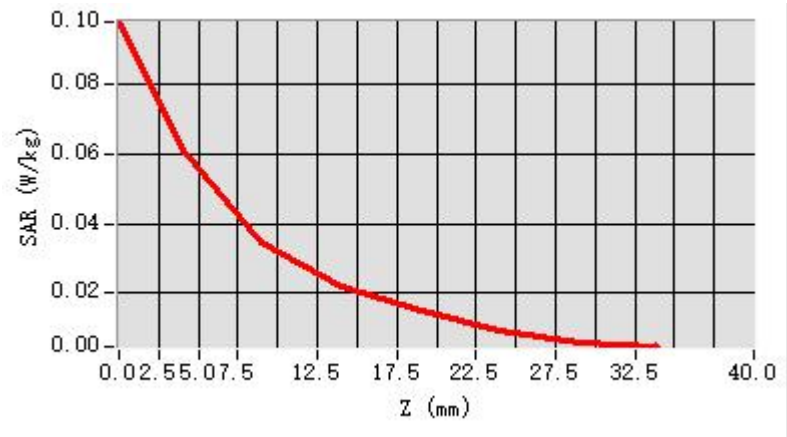
Maximum location: X=0.00, Y=-42.00 ; SAR Peak: 0.10 W/kg

D. SAR 1g & 10g

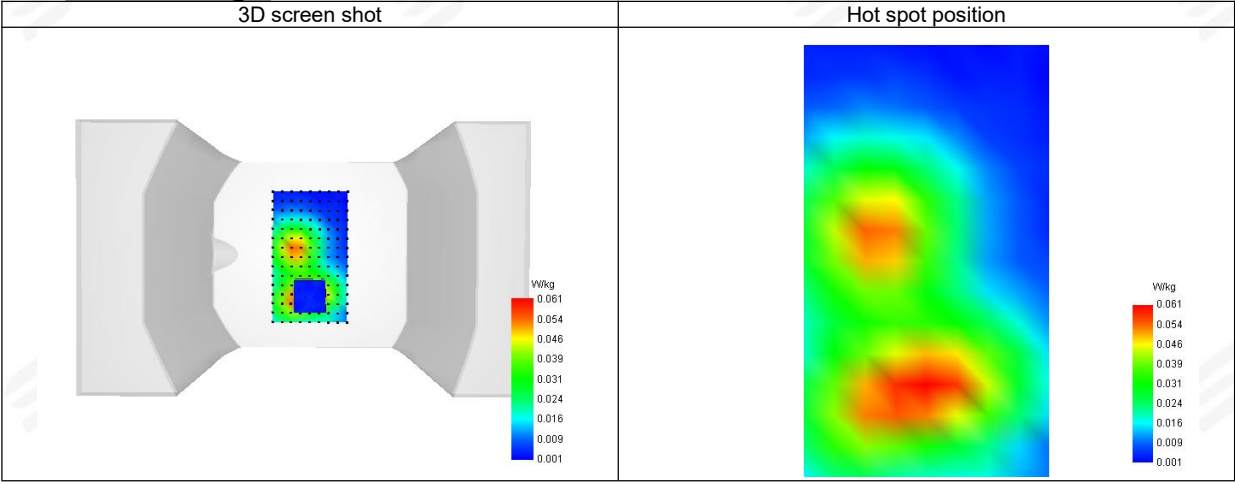
SAR 10g (W/Kg)	0.035
SAR 1g (W/Kg)	0.060
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	57.018420

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.098	0.061	0.035	0.022	0.015	0.009	0.006

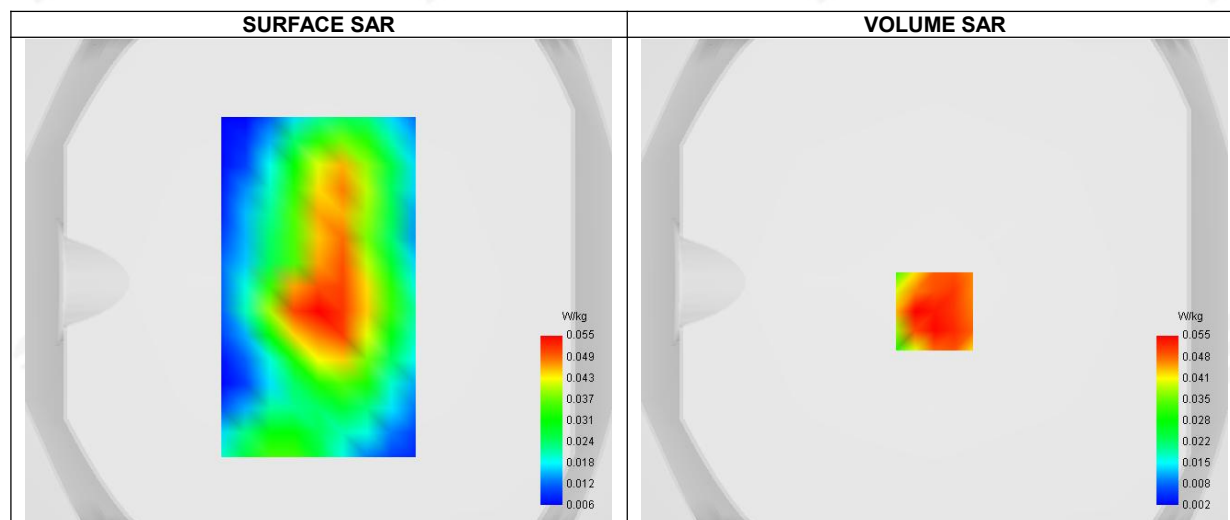


F. 3D Image



Plot 18: DUT: 4G Poc Radio ; EUT Model: N180

Test Date	2026-05-18
ConvF	1.70
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back+Clip side
Band	LTE Band 40 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2350
Relative permittivity (real part)	39.40
Conductivity (S/m)	1.73



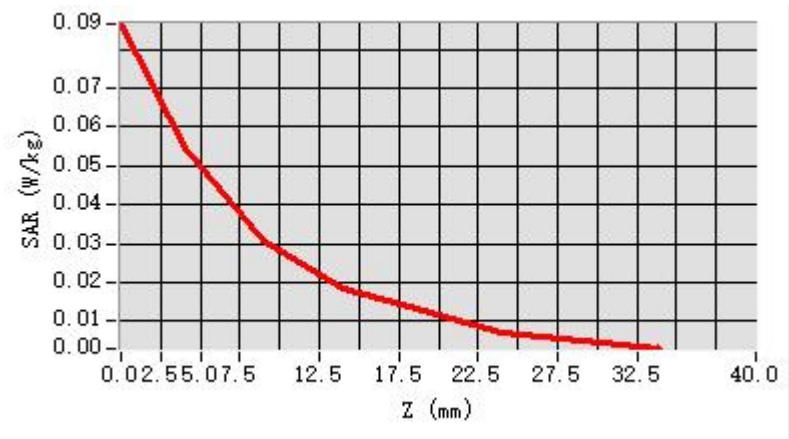
Maximum location: X=0.00, Y=-12.00 ; SAR Peak: 0.08 W/kg

D. SAR 1g & 10g

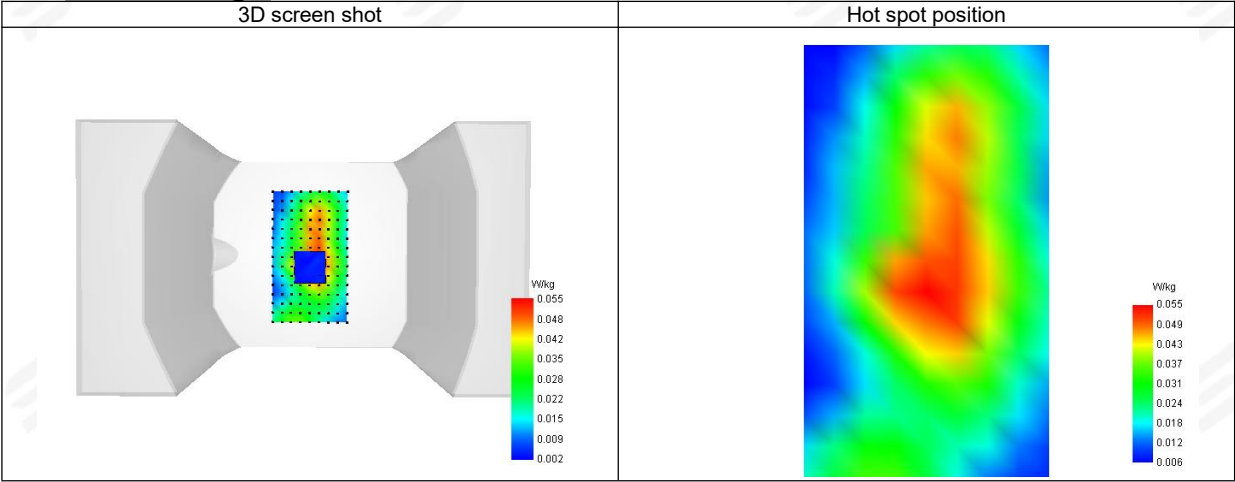
SAR 10g (W/Kg)	0.031
SAR 1g (W/Kg)	0.054
Horizontal validation criteria: minimum distance (mm)	14.618453
Vertical validation criteria: SAR ratio M2/M1 (%)	56.410256

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.086	0.055	0.031	0.019	0.013	0.007	0.005

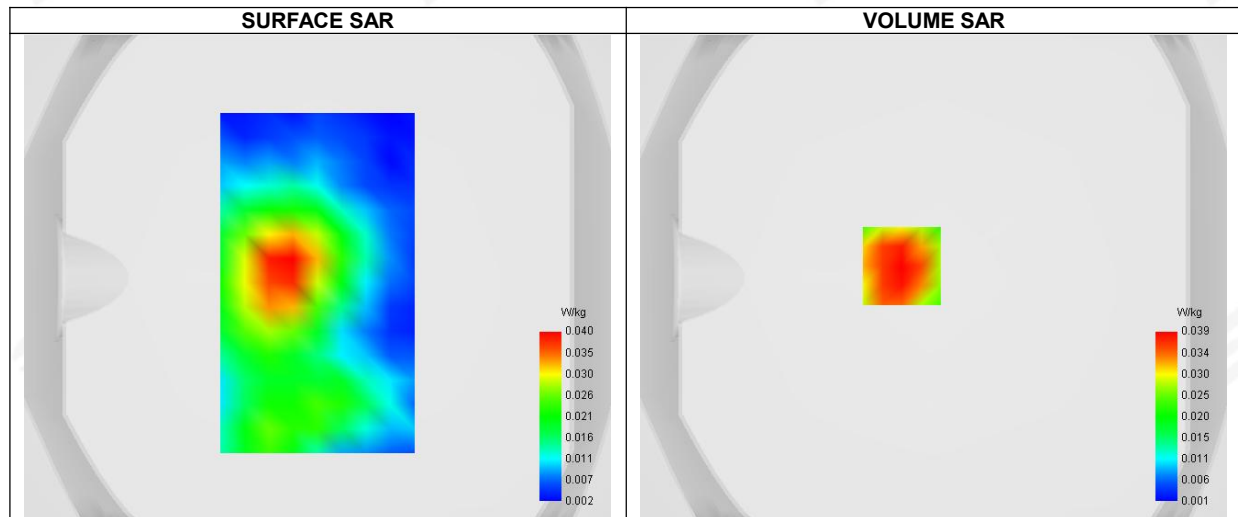


F. 3D Image



Plot 19: DUT: 4G Poc Radio ; EUT Model: N180

Test Date	2026-05-18
ConvF	1.70
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Face up
Band	LTE Band 41 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2506
Relative permittivity (real part)	39.05
Conductivity (S/m)	1.86



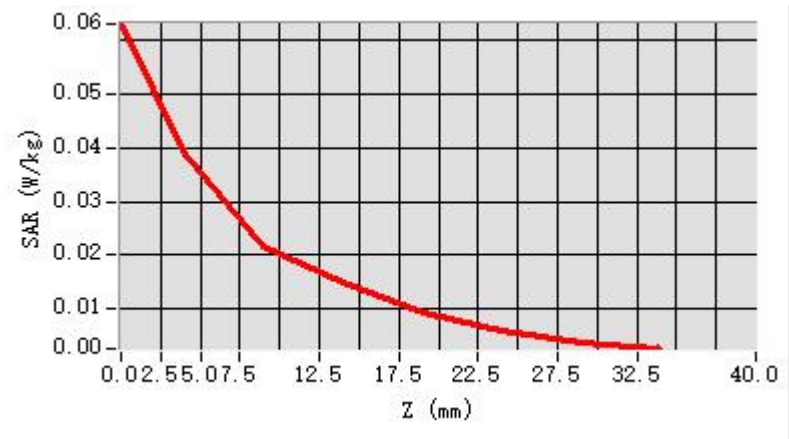
Maximum location: X=-13.00, Y=5.00 ; SAR Peak: 0.06 W/kg

D. SAR 1g & 10g

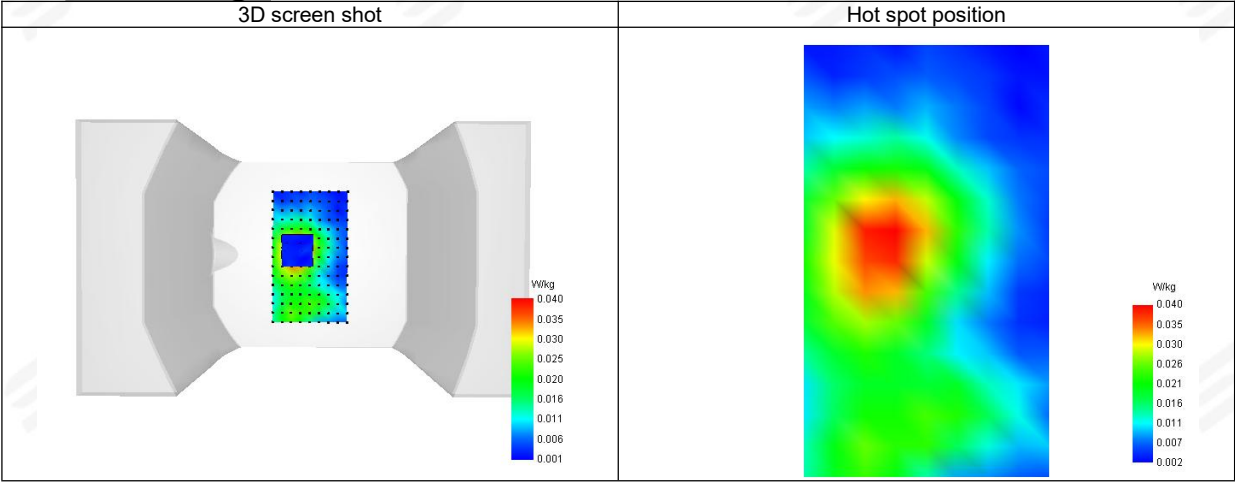
SAR 10g (W/Kg)	0.022
SAR 1g (W/Kg)	0.038
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	56.410256

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.063	0.039	0.022	0.015	0.009	0.006	0.004

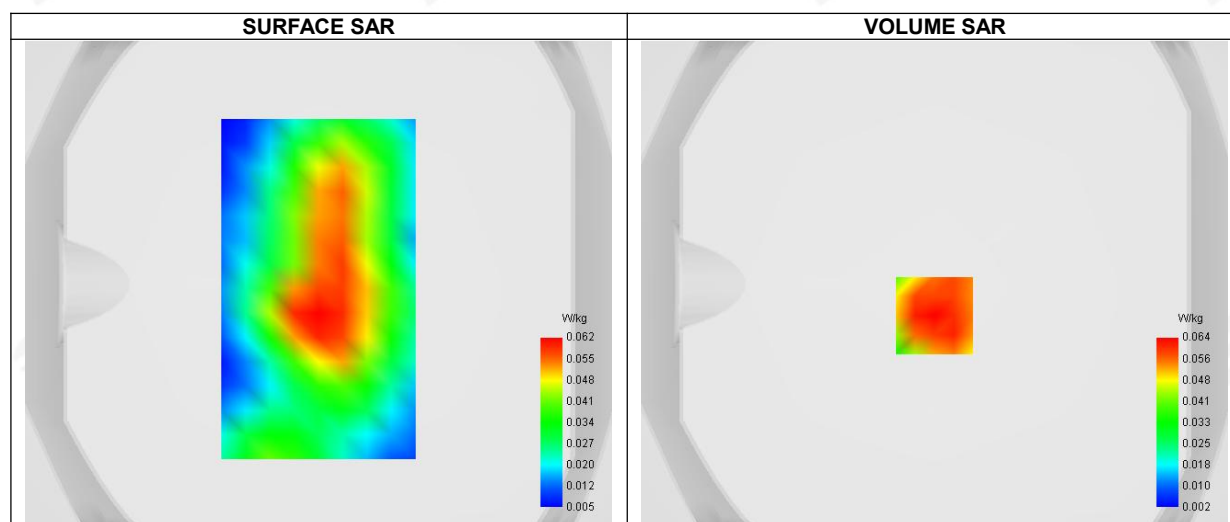


F. 3D Image



Plot 20: DUT: 4G Poc Radio ; EUT Model: N180

Test Date	2026-05-18
ConvF	1.70
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back+Clip side
Band	LTE Band 41 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2506
Relative permittivity (real part)	39.05
Conductivity (S/m)	1.86



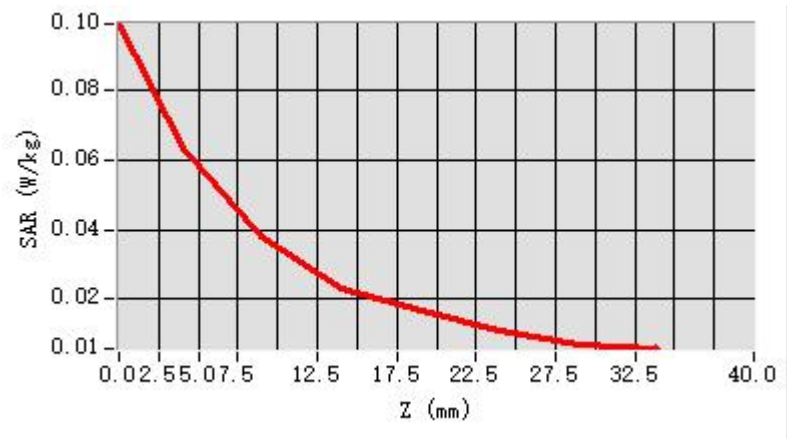
Maximum location: X=0.00, Y=-13.00 ; SAR Peak: 0.10 W/kg

D. SAR 1g & 10g

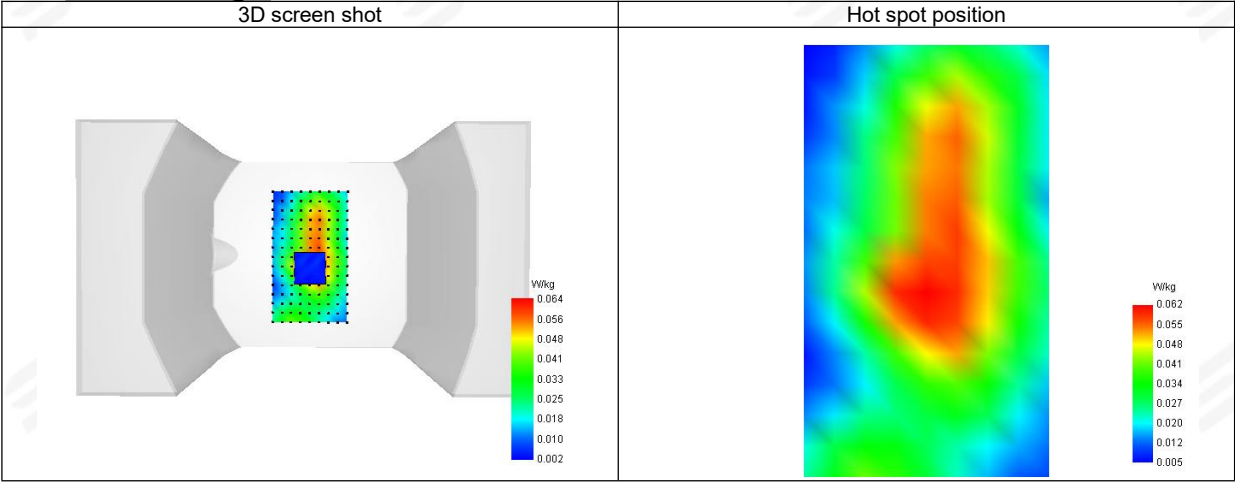
SAR 10g (W/Kg)	0.037
SAR 1g (W/Kg)	0.062
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	59.374056

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.099	0.064	0.038	0.023	0.017	0.011	0.007

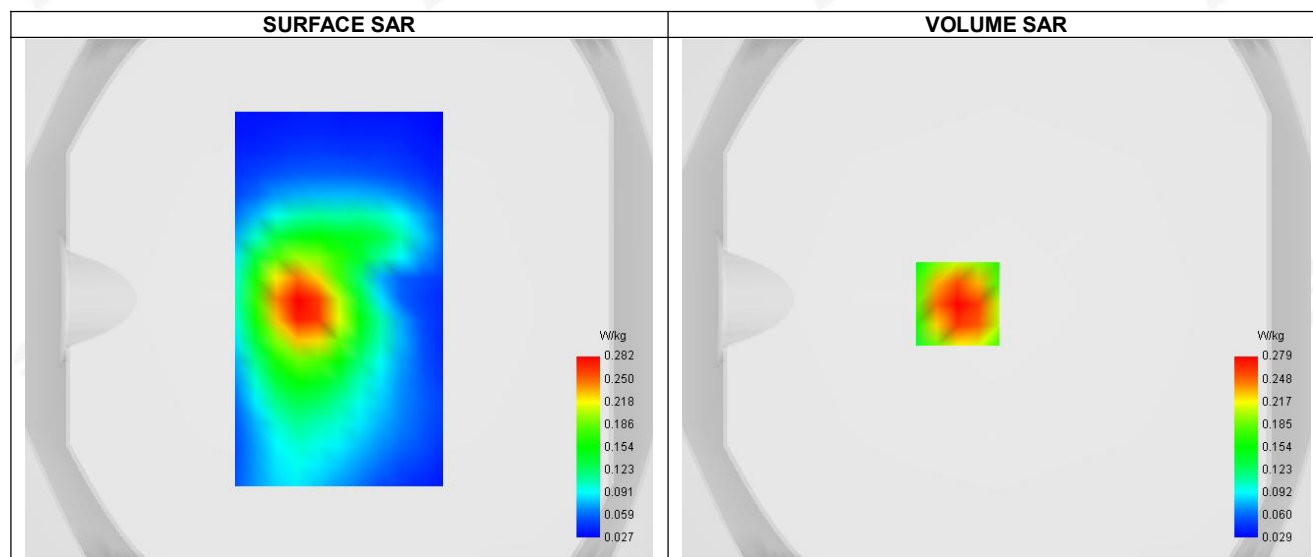


F. 3D Image



Plot 21: DUT: 4G Poc Radio ; EUT Model: N180

Test Date	2026-05-17
ConvF	1.54
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Face up
Band	LTE Band 66 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1745
Relative permittivity (real part)	40.70
Conductivity (S/m)	1.39



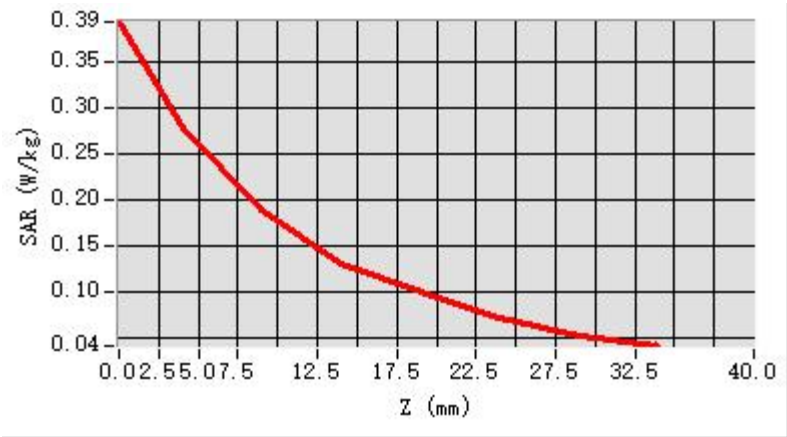
Maximum location: X=-15.00, Y=-2.00 ; SAR Peak: 0.39 W/kg

D. SAR 1g & 10g

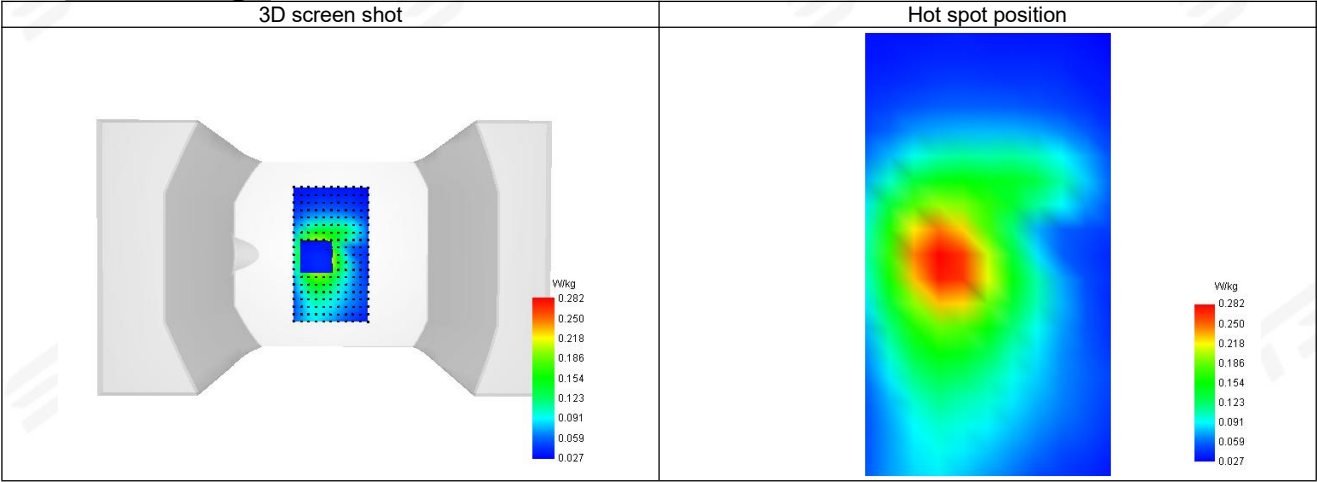
SAR 10g (W/Kg)	0.159
SAR 1g (W/Kg)	0.271
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	68.135226

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.394	0.279	0.190	0.130	0.101	0.072	0.052

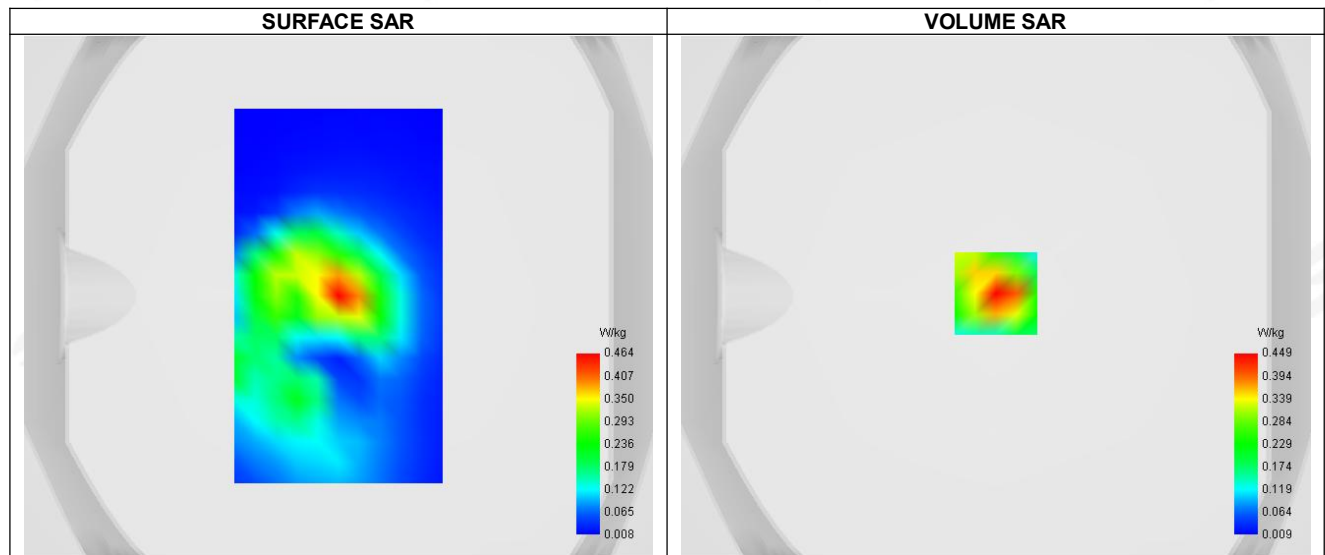


F. 3D Image



Plot 22: DUT: 4G Poc Radio ; EUT Model: N180

Test Date	2026-05-17
ConvF	1.54
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back+Clip side
Band	LTE Band 4 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1745
Relative permittivity (real part)	40.70
Conductivity (S/m)	1.39



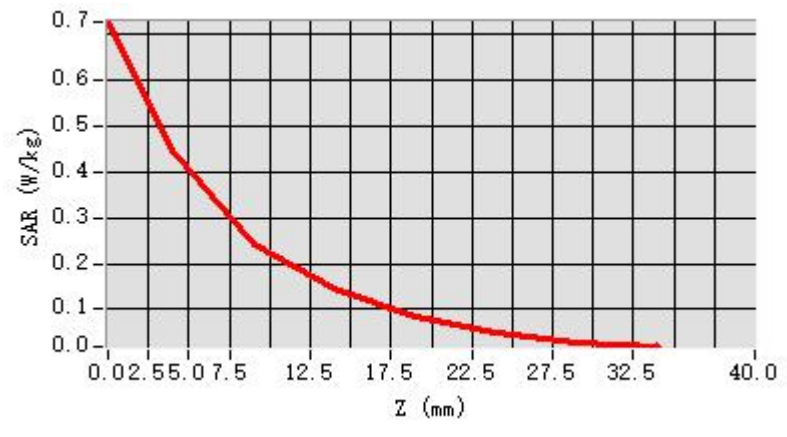
Maximum location: X=0.00, Y=1.00 ; SAR Peak: 0.73 W/kg

D. SAR 1g & 10g

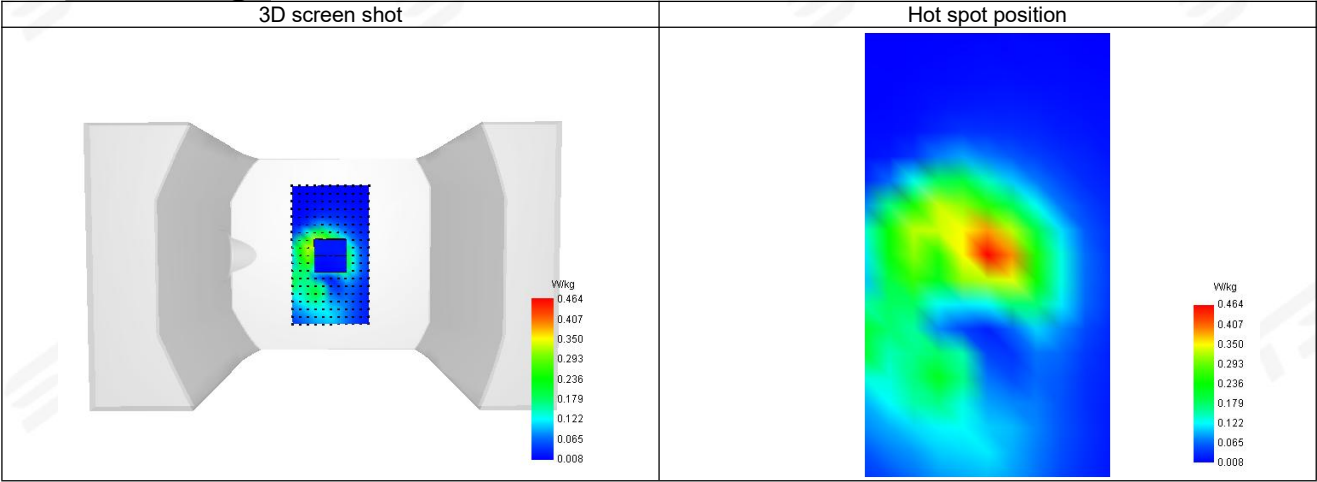
SAR 10g (W/Kg)	0.215
SAR 1g (W/Kg)	0.425
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	53.703022

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.728	0.449	0.241	0.146	0.085	0.049	0.028



F. 3D Image



Appendix C. Probe Calibration and Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※END OF THE REPORT※※※※