



SAR Test Report

Report No.: STS2505051H01

Issued for

Horizon Powered USA Inc.

8350 NW 52nd Terrace, Suite 301, Miami, FL 33166 United States

Product Name: 4G/LTE MiFi Hotspot

Brand Name: Horizon

Model Name: MH07

Series Model(s): N/A

FCC ID: 2BE94MH07

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

Max. Report Limbs : 2.494 W/kg(10g)
SAR (10&1g) Body: 1.228 W/kg(1g)

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 : Horizon Powered USA Inc.
Address : 8350 NW 52nd Terrace, Suite 301, Miami, FL 33166 United States
Manufacturer's Name : Horizon Powered USA Inc.
Address : 8350 NW 52nd Terrace, Suite 301, Miami, FL 33166 United States

Product description

Product name : 4G/LTE MiFi Hotspot
Brand name : Horizon
Model name : MH07
Series Model(s) : N/A

Standards : ANSI/IEEE Std. C95.1
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..... : 28 May 2025 ~ 06 Jun. 2025

Date of Issue..... : 13 Jun. 2025

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

Testing Engineer :

Xin Liu

(Xin.Liu)

Technical Manager :

Shi fan-long

(Shifan. Long)

Authorized Signatory :

Bovey Yang

(Bovey Yang)





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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	13 Jun. 2025	STS2505051H01	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/LTE MiFi Hotspot			
Brand Name	Horizon			
Model Name	MH07			
Series Model	N/A			
Model Difference	N/A			
Sample number	250509011-4			
Battery	Rated Voltage: 3.8 V Charge Limit Voltage:4.35V Capacity: 3900mAh			
Device Category	Portable			
Product stage	Production unit			
RF Exposure Environment	General Population / Uncontrolled			
Hardware Version	N/A			
Software Version	N/A			
Frequency Range	WCDMA Band 2: 1850 MHz ~ 1910 MHz WCDMA Band 4:1710 MHz ~ 1755 MHz WCDMA Band 5: 824 MHz ~ 849 MHz 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 17 (704-716 MHz) is covered by LTE Band 12 (699-716 MHz) LTE Band 13: 777 MHz ~ 787 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 2 (1850-1910 MHz)is covered by LTE Band 25(1850-1915 MHz) LTE Band 26: 814 MHz ~ 824 MHz / 824 MHz ~ 849 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 4 (1710-1755 MHz) is covered by LTE Band 66 (1710-1780 MHz) LTE Band 71: 663 MHz ~ 698 MHz WLAN802.11b/g/n20/ax20: 2412 MHz ~ 2462 MHz WLAN 802.11n40/ax40: 2422 MHz ~ 2452 MHz BLE: 2402 MHz to 2480 MHz			
Max. Reported SAR(1g): (Limit:1.6&4.0W/kg) Test distance: Limbs:0mm Body:5mm	Band	Mode	Body Worn and hotspot(W/kg)	Limbs and Hotspot(W/Kg)
	PCB	WCDMA Band 2	1.228	2.494
	PCB	WCDMA Band 4	0.781	0.888
	PCB	WCDMA Band 5	0.778	1.452
	PCB	LTE Band 5	0.780	1.189
	PCB	LTE Band 7	0.592	1.079



	PCB	LTE Band 12/B17	0.105	0.334
	PCB	LTE Band 13	0.203	0.521
	PCB	LTE Band 25/B2	1.204	1.095
	PCB	LTE Band 26	0.527	0.994
	PCB	LTE Band 66/B4	0.778	0.781
	PCB	LTE Band 71	0.092	0.262
	DTS	2.4G WLAN	0.021	0.065
1-g Sum SAR			1.249	N/A
10-g Sum SAR			N/A	2.559
Limit			1.6W/kg	4.0W/kg
FCC Equipment Class	Digital Transmission System (DTS) Licensed Transmitter (PCB)			
Operating Mode:	WCDMA: RMC, HSDPA, HSUPA Release 6 LTE: QPSK, 16QAM, 64QAM(downlink only) 2.4G WLAN : 802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11ax(OFDM):BPSK,QPSK,16-QAM,64-QAM			
Antenna Specification:	WCDMA/LTE: PIFA Antenna WLAN: PIFA Antenna			
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.

101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai 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 D04 v01	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
10	FCC KDB 248227 D01 Wi-Fi SAR v02r02	SAR Considerations for 802.11 Devices

(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:

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

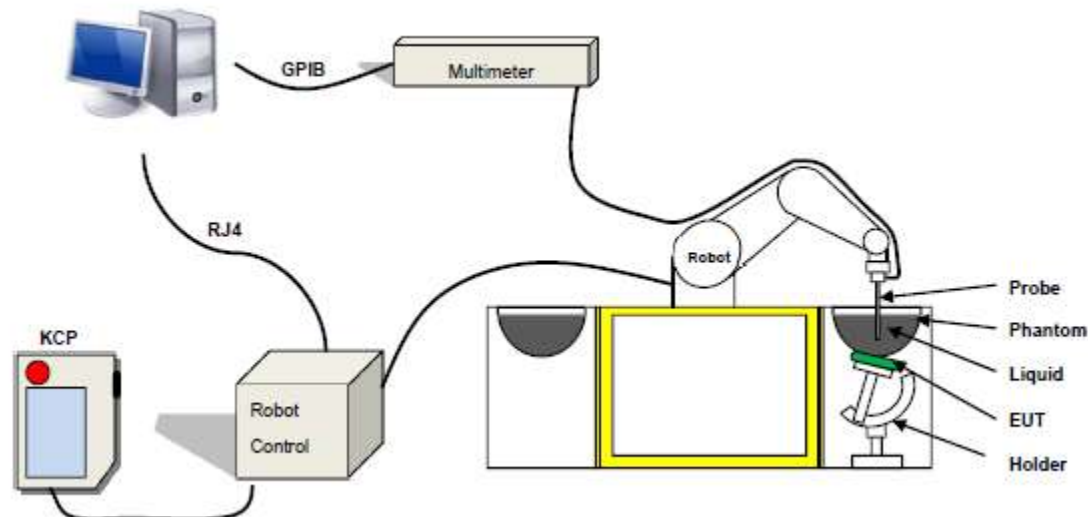
SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be related to the electrical field in the tissue by

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

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

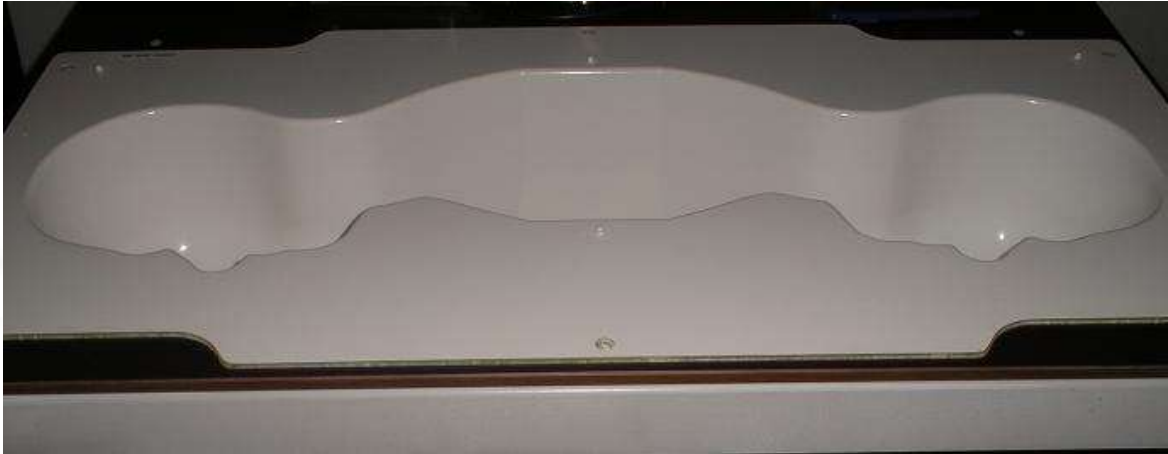


Figure-SN 21/21 ELLI48



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. 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.

IEEE SCC-34/SC-2 RECOMMENDED TISSUE DIELECTRIC PARAMETERS

The head and body tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 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]					
2025-05-30	23.6	43	673	23.3	Permittivity	42.31	42.81	1.18	±5
					Conductivity	0.88	0.85	-3.94	±5
2025-05-30	23.6	43	704	23.3	Permittivity	42.15	42.16	0.03	±5
					Conductivity	0.89	0.85	-4.16	±5
2025-05-30	23.7	43	750	23.4	Permittivity	41.90	42.50	1.43	±5
					Conductivity	0.89	0.86	-3.37	±5
2025-05-30	23.6	43	750	23.3	Permittivity	41.90	42.21	0.74	±5
					Conductivity	0.89	0.88	-1.12	±5
2025-05-30	23.7	43	782	23.4	Permittivity	41.73	42.38	1.56	±5
					Conductivity	0.89	0.86	-3.60	±5
2025-05-28	22.9	43	831.5	22.6	Permittivity	41.52	41.16	-0.86	±5
					Conductivity	0.90	0.92	2.27	±5
2025-05-28	23.0	43	835	22.7	Permittivity	41.50	41.09	-0.99	±5
					Conductivity	0.90	0.94	4.44	±5
2025-05-28	23.0	43	841.5	22.7	Permittivity	41.47	40.53	-2.27	±5
					Conductivity	0.90	0.93	3.25	±5
2025-05-28	23.0	44	844	22.7	Permittivity	41.46	40.94	-1.25	±5
					Conductivity	0.90	0.93	3.21	±5
2025-05-28	23.0	44	846.6	22.6	Permittivity	41.45	41.79	0.83	±5
					Conductivity	0.90	0.88	-2.37	±5
2025-05-29	21.4	44	1740	21.7	Permittivity	40.09	40.88	1.98	±5
					Conductivity	1.37	1.38	1.05	±5
2025-05-29	21.5	44	1755	21.2	Permittivity	40.06	41.33	3.16	±5
					Conductivity	1.37	1.34	-2.49	±5
2025-05-29	21.5	45	1800	21.3	Permittivity	40.00	40.77	1.93	±5
					Conductivity	1.40	1.42	1.43	±5
2025-06-03	22.3	51	1852	22.0	Permittivity	40.00	40.40	1.00	±5
					Conductivity	1.40	1.36	-2.86	±5
2025-06-03	22.3	51	1860	22.0	Permittivity	40.00	41.05	2.62	±5
					Conductivity	1.40	1.43	2.14	±5
2025-06-03	22.3	51	1880	22.0	Permittivity	40.00	40.77	1.93	±5
					Conductivity	1.40	1.45	3.57	±5



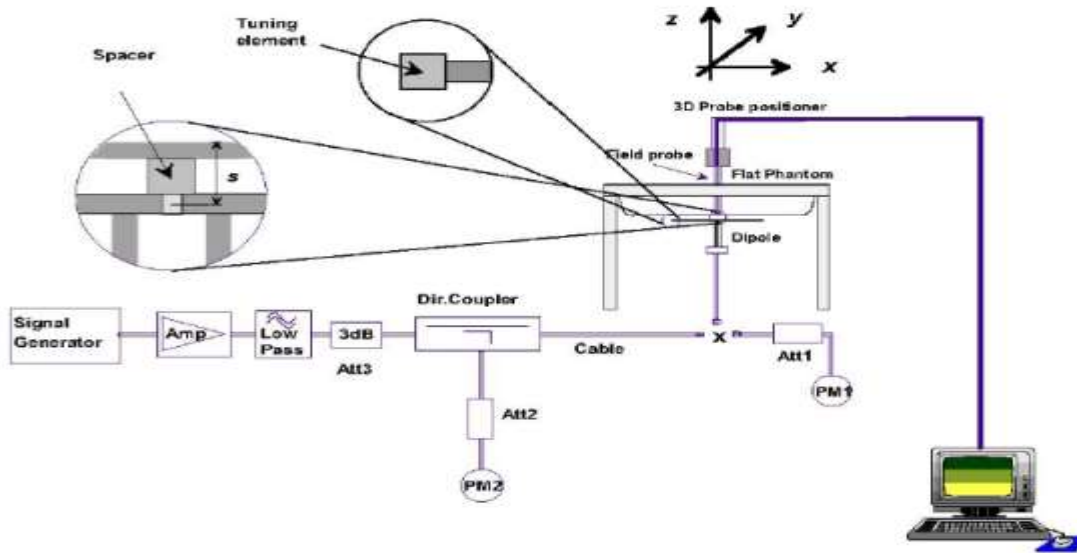
2025-06-03	22.3	51	1883	21.9	Permittivity	40.00	40.77	1.93	±5
					Conductivity	1.40	1.44	2.86	±5
2025-06-03	22.3	51	1900	22.0	Permittivity	40.00	39.91	-0.23	±5
					Conductivity	1.40	1.41	0.71	±5
2025-06-03	22.3	51	1905	22.0	Permittivity	40.00	40.75	1.88	±5
					Conductivity	1.40	1.38	-1.43	±5
2025-06-03	22.3	51	1908	22.0	Permittivity	40.00	40.83	2.08	±5
					Conductivity	1.40	1.42	1.43	±5
2025-06-06	20.1	55	2412	19.7	Permittivity	39.27	40.31	2.65	±5
					Conductivity	1.77	1.83	3.61	±5
2025-06-06	20.2	55	2450	19.9	Permittivity	39.20	39.96	1.94	±5
					Conductivity	1.80	1.79	-0.56	±5
2025-06-06	20.1	55	2535	19.8	Permittivity	39.09	39.82	1.88	±5
					Conductivity	1.89	1.85	-2.15	±5
2025-06-06	20.2	55	2600	20.0	Permittivity	39.00	39.98	2.51	±5
					Conductivity	1.96	2.03	3.57	±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

Justification for Extended SAR Dipole Calibrations

Usage of SAR dipoles calibrated less than 3 years ago but more than 1 year ago were confirmed in maintaining return loss (>20 dB, within 20% of prior calibration) and impedance (within 5 ohm from prior calibration) requirements per extended calibrations in KDB 865664 D01:

Dipole		Date of Measurement	Return Loss (dB)	Delta (%)	Impedance	Delta(ohm)
SN 30/14 DIP0G750-331	Head Liquid	2023-07-04	-25.47	/	55.2	/
		2024-07-01	-25.98	2.00	54.86	-0.62
SN 30/14 DIP0G835-332	Head Liquid	2023-07-04	-28.13	/	51.4	/
		2024-07-01	-28.43	1.07	52.62	2.37
5023-DIP1G800-747	Head Liquid	2023-12-20	-27.38	/	50.2	/
		2024-12-11	-29.08	6.21	46.36	-7.65
SN 30/14 DIP1G900-333	Head Liquid	2023-07-04	-23.66	/	51.4	/
		2024-07-01	-23.62	-0.17	50.73	-1.30
SN 30/14 DIP2G450-335	Head Liquid	2023-07-04	-26.03	/	46.3	/
		2024-07-01	-26.42	1.50	47.25	2.05
SN 30/14 DIP2G600-336	Head Liquid	2023-07-04	-34.32	/	50.3	/
		2024-07-01	-34.78	1.34	49.61	-1.37



Comparing to the original SAR value provided by MVG, the validation data should be within its specification of 10 %.

Date	Freq.	Power	Tested Value	Normalized SAR	Target SAR	Tolerance	Limit
	(MHz)	(mW)	(W/Kg)	(W/kg)	1g(W/kg)	(%)	(%)
2025-05-30	750	100	0.835	8.35	8.49	-1.65	10
2025-05-28	835	100	0.953	9.53	9.63	-1.04	10
2025-05-29	1800	100	4.065	40.65	38.40	5.86	10
2025-06-03	1900	100	3.691	36.91	39.84	-7.35	10
2025-06-06	2450	100	5.236	52.36	54.70	-4.28	10
2025-06-06	2600	100	5.289	52.89	56.19	-5.87	10

Date	Freq.	Power	Tested Value	Normalized SAR	Target SAR	Tolerance	Limit
	(MHz)	(mW)	(W/Kg)	(W/kg)	10g(W/kg)	(%)	(%)
2025-05-28	750	100	0.563	5.63	5.53	1.81	10
2025-05-29	835	100	0.620	6.20	6.15	0.81	10
2025-06-03	1800	100	2.134	21.34	20.10	6.17	10
2025-06-03	1900	100	1.961	19.61	20.20	-2.92	10
1900-01-00	2450	100	2.415	24.15	24.11	0.17	10
1900-01-00	2600	100	2.324	23.24	24.08	-3.49	10

Note:

1. The tolerance limit of System validation $\pm 10\%$.
2. The dipole input power (forward power) was 100 mW.
3. The results are normalized to 1 W input power.



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.

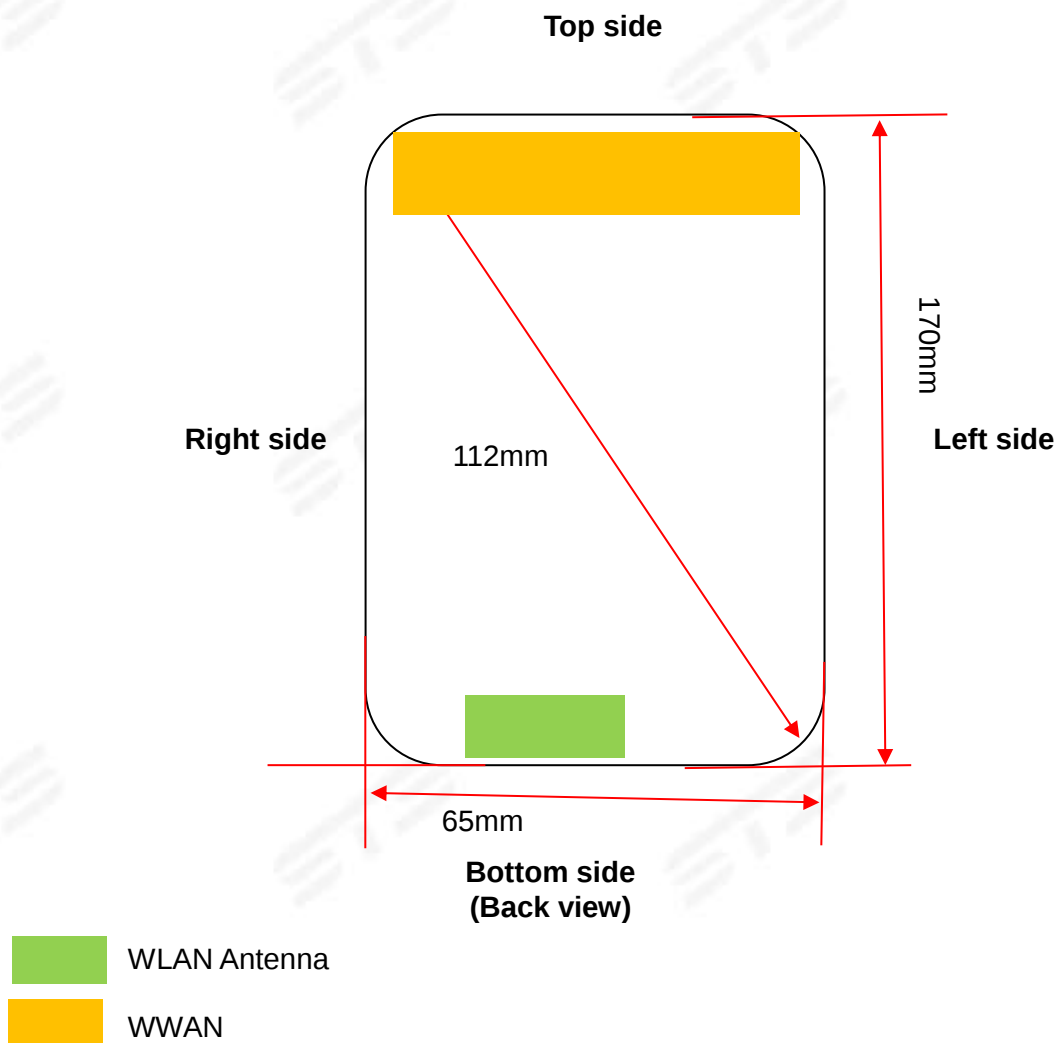
➤ Area Scan& Zoom Scan

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 Antenna Location Sketch

It is a 4G/LTE MiFi Hotspot, support WCDMA/LTE/WLAN mode.



Antenna Separation Distance(cm)						
ANT	Back Side	Front Side	Left Side	Right Side	Top Side	Bottom Side
WLAN	≤0.5	≤0.5	3.3	1.2	9.2	≤0.5
WWAN	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	9.2

Note 1: The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report.

**7.1 SAR test exclusion consider table**

The WLAN/WWAN SAR evaluation of Maximum power (dBm) summing tolerance.

Exposure Position	Wireless Interface	WCDMA Band 2	WCDMA Band 4	WCDMA Band 5	LTE Band 2	LTE Band 4
	Calculated Frequency(GHz)	1.9706	1.74	0.8466	1.88	1.732
	Maximum Turn-up power (dBm)	24	24	18.5	24.5	25
	Maximum rated power(mW)	251.19	251.19	70.79	281.84	316.23
Back Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	3.27	3.61	9.07	3.39	3.62
	Testing required?	YES	YES	YES	YES	YES
Front Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	3.27	3.61	9.07	3.39	3.62
	Testing required?	YES	YES	YES	YES	YES
Left Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	3.27	3.61	9.07	3.39	3.62
	Testing required?	YES	YES	YES	YES	YES
Right Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	3.27	3.61	9.07	3.39	3.62
	Testing required?	YES	YES	YES	YES	YES
Top Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	3.27	3.61	9.07	3.39	3.62
	Testing required?	YES	YES	YES	YES	YES
Bottom Side	Separation distance (cm)	9.2	9.2	9.2	9.2	9.2
	exclusion threshold(mW)	724.74	740.11	572.02	730.51	740.68
	Testing required?	NO	NO	NO	NO	NO



Exposure Position	Wireless Interface	LTE Band 5	LTE Band 7	LTE Band 12	LTE Band 13	LTE Band 17
	Calculated Frequency(GHz)	0.844	2.535	0.704	0.782	0.709
	Maximum Turn-up power (dBm)	22	24	27	22.5	26.5
	Maximum rated power(mW)	158.49	251.19	501.19	177.83	446.68
Back Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	9.11	2.67	11.75	10.14	11.63
	Testing required?	YES	YES	YES	YES	YES
Front Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	9.11	2.67	11.75	10.14	11.63
	Testing required?	YES	YES	YES	YES	YES
Left Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	9.11	2.67	11.75	10.14	11.63
	Testing required?	YES	YES	YES	YES	YES
Right Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	9.11	2.67	11.75	10.14	11.63
	Testing required?	YES	YES	YES	YES	YES
Top Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	9.11	2.67	11.75	10.14	11.63
	Testing required?	YES	YES	YES	YES	YES
Bottom Side	Separation distance (cm)	9.2	9.2	9.2	9.2	9.2
	exclusion threshold(mW)	571.16	694.60	522.19	550.02	524.02
	Testing required?	NO	NO	NO	NO	NO



Exposure Position	Wireless Interface	LTE Band 25	LTE Band 26	LTE Band 66	LTE Band 71	2.4G WLAN
	Calculated Frequency(GHz)	1.8825	0.8315	1.755	0.673	2.412
	Maximum Turn-up power (dBm)	25	25.5	23.5	24.5	16
	Maximum rated power(mW)	316.23	354.81	223.87	281.84	39.81
Back Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	3.39	9.30	3.58	12.51	2.78
	Testing required?	YES	YES	YES	YES	YES
Front Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	3.39	9.30	3.58	12.51	2.78
	Testing required?	YES	YES	YES	YES	YES
Left Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	3.3
	exclusion threshold(mW)	3.39	9.30	3.58	12.51	99.98
	Testing required?	YES	YES	YES	YES	NO
Right Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	1.2
	exclusion threshold(mW)	3.39	9.30	3.58	12.51	14.65
	Testing required?	YES	YES	YES	YES	YES
Top Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	9.2
	exclusion threshold(mW)	3.39	9.30	3.58	12.51	700.45
	Testing required?	YES	YES	YES	YES	NO
Bottom Side	Separation distance (cm)	9.2	9.2	9.2	9.2	0.5
	exclusion threshold(mW)	730.35	566.96	739.04	510.70	2.78
	Testing required?	NO	NO	NO	NO	YES

Note:

1. maximum power is the source-based time-average power and represents the maximum RF output power among production units.
2. Per KDB 447498 D04, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
3. Per KDB 447498 D04, if the maximum time-averaged power available does not exceed 1 mW. This stand-alone SAR exemption test.



4. Per KDB 447498 D04, the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

Where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$$

and

$$ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

d = the separation distance (cm);

5. Per KDB 447498 D04, An alternative to the SAR-based exemption is using below table and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in below table to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

RF Source frequency (MHz)	Threshold ERP(watts)
0.3-1.34	$1,920 R^2$.
1.34-30	$3,450 R^2/f^2$.
30-300	$3.83 R^2$.
300-1,500	$0.0128 R^2f$.
1,500-100,000	$19.2R^2$.



6. Per KDB 248227 D01, choose the highest output power channel to test SAR and determine further SAR exclusion 8. for each frequency band, testing at higher data rates and higher order modulations is not required when the maximum average output power for each of these configurations is less than 1/4db higher than those measured at the lower data rate than 11b mode, thus the SAR can be excluded.
7. Per KDB 616217 D04, SAR evaluation for the front surface of tablet display screens are generally not necessary.
8. Per KDB 248227, as maximum rated power for U-NII-1 > U-NII-2A, U-NII-1 was chosen for SAR evaluation. Based on the measurements obtained, SAR measurements on U-NII-2A are not required as highest reported SAR from U-NII-1 band is $\leq 1.2\text{W/Kg}$.

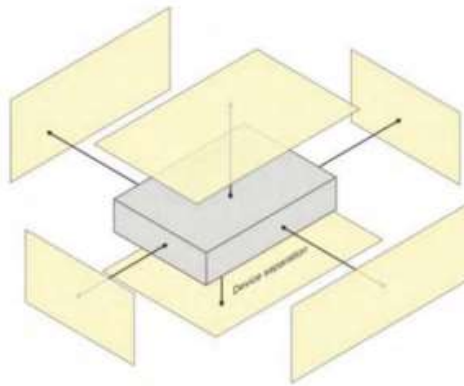
8. EUT Test Position

This EUT was tested in Back Side, Front Side, Left Side, Right Side, Top Side and Bottom Side.

8.1 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 D04 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.





9. Uncertainty

9.1 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 EPG0352									
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	



SATIMO Uncertainty- SN 08/21 EPGO352									
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 EPG0352									
。 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	



10. Conducted Power Measurement

10.1 Test Result

WCDMA

Band	WCDMA Band 2			WCDMA Band 4			WCDMA Band 5		
Channel	9262	9400	9538	1312	1413	1513	4132	4183	4233
Frequency (MHz)	1852.4	1880	1907.6	1712.6	1740	1752.4	826.4	836.6	846.6
AMR 12.2Kbps	22.87	22.81	23.50	23.13	23.52	22.55	17.52	18.01	18.31
RMC 12.2Kbps	22.94	22.88	23.54	23.18	23.60	22.58	17.58	18.02	18.37
HSDPA Subtest-1	22.97	22.49	21.41	23.07	22.59	21.32	16.53	15.76	15.66
HSDPA Subtest-2	21.03	23.27	22.77	20.51	23.51	22.80	17.58	18.27	17.67
HSDPA Subtest-3	21.87	21.35	23.47	21.66	21.14	22.53	17.69	17.55	18.25
HSDPA Subtest-4	22.98	21.46	21.48	22.08	21.12	20.78	17.88	17.26	17.38
HSUPA Subtest-1	22.75	22.95	22.10	22.82	22.96	21.92	16.22	16.34	15.35
HSUPA Subtest-2	23.13	22.52	23.17	23.17	22.46	23.15	16.55	16.95	17.94
HSUPA Subtest-3	23.28	22.39	23.36	23.39	22.31	23.56	18.18	17.49	18.29
HSUPA Subtest-4	22.78	23.25	23.44	22.69	22.16	22.42	17.53	18.34	18.33
HSUPA Subtest-5	22.43	23.51	22.80	21.38	22.58	21.74	17.65	18.11	17.77

According to 3GPP 25.101 sub-clause 6.2.2, the maximum output power is allowed to be reduced by following the table.

Table 6.1A: UE maximum output power with HS-DPCCH and E-DCH

UE Transmit Channel Configuration	CM(db)	MPR(db)
For all combinations of ,DPDCH,DPCCH HS-DPDCH,E-DPDCH and E-DPCCH	$0 \leq CM \leq 3.5$	$MAX(CM-1,0)$
Note: CM=1 for $\beta_c/\beta_d=12/15$, $\beta_{hs}/\beta_c=24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.		

The device supports MPR to solve linearity issues (ACLR or SEM) due to the higher peak-to average ratios (PAR) of the HSUPA signal. This prevents saturating the full range of the TX DAC inside of device and provides a reduced power output to the RF transceiver chip according to the Cubic Metric (a function of the combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH).

When E-DPDCH channels are present the beta gains on those channels are reduced firsts to try to get the power under the allowed limit. If the beta gains are lowered as far as possible, then a hard limiting is applied at the maximum allowed level.

The SW currently recalculates the cubic metric every time the beta gains on the E-DPDCH are reduced. The cubic metric will likely get lower each time this is done .However, there is no reported reduction of maximum output power in the HSUPA mode since the device also provides a compensation for the power back-off by increasing the gain of TX_AGC in the transceiver (PA) device.

The end effect is that the DUT output power is identical to the case where there is no MPR in the device.



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 $> \text{not } \frac{1}{2}$ 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 $> \text{not } \frac{1}{2}$ 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.
 8. According to April 2015 TCB workshop, SAR test exclusion can be applied for testing overlapping LTE bands as follows:
 - a) The maximum output power, including tolerance, for the smaller band must be $\leq$ the larger band to qualify for the SAR test exclusion.
 - b) The channel bandwidth and other operating parameters for the smaller band must be fully supported by the larger band.
- LTE Band 2 (1850-1910 MHz) is covered by LTE Band 25(1850-1915 MHz)
 - LTE Band 4 (1710-1755 MHz) is covered by LTE Band 66 (1710-1780MHz)
 - LTE Band 17 (704-716 MHz) is covered by LTE Band 12(699-716MHz)



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.40	23.98	23.80
1.4	1	2		23.31	23.95	23.75
1.4	1	5		23.37	23.98	23.87
1.4	3	0		23.30	23.98	23.87
1.4	3	1		23.32	23.99	23.90
1.4	3	2		23.40	23.99	23.92
1.4	6	0		22.53	23.13	23.09
1.4	1	0	16-QAM	22.39	23.14	23.23
1.4	1	2		22.39	23.14	23.18
1.4	1	5		22.49	23.15	23.32
1.4	3	0		22.50	23.21	23.16
1.4	3	1		22.51	23.21	23.20
1.4	3	2		22.57	23.20	23.23
1.4	6	0		21.68	22.39	22.24
3	1	0	QPSK	23.23	23.71	23.42
3	1	7		23.35	23.96	23.66
3	1	14		23.39	23.85	23.77
3	8	0		22.48	23.14	22.76
3	8	4		22.58	23.19	22.88
3	8	7		22.57	23.16	23.01
3	15	0		22.57	23.13	22.87
3	1	0	16-QAM	22.50	22.94	22.79
3	1	7		22.68	23.14	23.04
3	1	14		22.74	23.05	23.20
3	8	0		21.60	22.18	21.77
3	8	4		21.72	22.28	21.89
3	8	7		21.76	22.26	22.04
3	15	0		21.55	22.06	22.00



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.12	23.70	23.26
5	1	12		23.39	23.98	23.50
5	1	24		23.44	23.74	23.77
5	12	0		22.49	22.99	22.39
5	12	6		22.63	23.16	22.67
5	12	11		22.71	23.11	22.86
5	25	0		22.59	23.07	22.67
5	1	0	16-QAM	22.63	22.94	22.44
5	1	12		22.86	23.25	22.78
5	1	24		22.97	23.00	23.09
5	12	0		21.57	22.13	21.54
5	12	6		21.76	22.30	21.84
5	12	11		21.79	22.24	22.01
5	25	0		21.64	22.08	21.70
10	1	0	QPSK	22.93	23.30	23.01
10	1	24		23.44	23.87	23.16
10	1	49		23.53	23.45	23.48
10	25	0		22.42	22.63	22.05
10	25	12		22.78	22.97	22.23
10	25	24		22.83	22.84	22.40
10	50	0		22.67	22.85	22.23
10	1	0	16-QAM	22.25	22.45	22.37
10	1	24		22.80	23.03	22.52
10	1	49		22.87	22.66	22.87
10	25	0		21.51	21.68	21.05
10	25	12		21.89	22.03	21.22
10	25	24		21.97	21.89	21.44
10	50	0		21.73	21.92	21.25



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.10	23.47	23.96
15	1	37		23.71	23.94	23.30
15	1	74		23.81	23.77	23.81
15	36	0		22.73	22.74	22.83
15	36	18		23.05	23.11	22.44
15	36	39		23.22	23.02	22.54
15	75	0		22.97	23.09	22.63
15	1	0	16-QAM	22.41	22.69	23.00
15	1	38		23.04	23.13	22.43
15	1	75		23.18	22.98	22.86
15	36	0		21.79	21.80	21.82
15	36	18		22.14	22.17	21.47
15	36	39		22.26	22.08	21.47
15	75	0		22.04	22.12	21.62
20	1	0	QPSK	23.03	23.33	23.83
20	1	49		23.80	24.01	23.42
20	1	99		23.39	23.86	23.51
20	50	0		22.85	22.69	23.14
20	50	24		23.29	23.11	22.64
20	50	49		23.10	23.06	22.34
20	100	0		23.09	23.13	22.57
20	1	0	16-QAM	22.34	22.50	23.09
20	1	49		23.12	23.12	22.59
20	1	99		22.70	23.04	22.72
20	50	0		21.92	21.68	22.23
20	50	24		22.37	22.16	21.65
20	50	49		22.09	22.07	21.43
20	100	0		22.16	22.19	21.56



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	24.21	24.31	23.77
1.4	1	2		24.13	24.24	23.68
1.4	1	5		24.17	24.34	23.79
1.4	3	0		24.17	24.27	23.79
1.4	3	1		24.26	24.33	23.78
1.4	3	2		24.28	24.35	23.73
1.4	6	0		23.45	23.54	22.99
1.4	1	0	16-QAM	23.26	23.70	23.01
1.4	1	2		23.26	23.68	22.89
1.4	1	5		23.33	23.76	22.98
1.4	3	0		23.38	23.67	23.04
1.4	3	1		23.39	23.67	23.04
1.4	3	2		23.41	23.68	22.99
1.4	6	0		22.85	22.88	22.37
3	1	0	QPSK	24.05	24.26	23.78
3	1	7		24.16	24.33	23.76
3	1	14		24.16	24.30	23.69
3	8	0		23.50	23.62	23.08
3	8	4		23.48	23.58	23.05
3	8	7		23.51	23.62	23.00
3	15	0		23.47	23.55	23.02
3	1	0	16-QAM	23.35	23.43	23.23
3	1	7		23.48	23.45	23.24
3	1	14		23.55	23.48	23.16
3	8	0		22.81	22.89	22.29
3	8	4		22.83	22.95	22.27
3	8	7		22.86	22.89	22.23
3	15	0		22.72	22.66	22.35



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	24.08	23.78	24.48
15	1	37		24.05	24.34	24.39
15	1	74		23.82	24.32	23.78
15	36	0		23.39	23.48	23.65
15	36	18		23.34	23.60	23.66
15	36	39		22.96	23.65	23.26
15	75	0		23.16	23.58	23.48
15	1	0	16-QAM	23.37	23.02	23.55
15	1	38		23.41	23.54	23.49
15	1	75		23.12	23.57	22.94
15	36	0		22.71	22.72	22.89
15	36	18		22.55	22.93	22.64
15	36	39		22.20	22.96	22.23
15	75	0		22.40	22.79	22.49
20	1	0	QPSK	24.00	23.63	24.20
20	1	49		23.84	24.35	24.25
20	1	99		23.98	24.51	23.64
20	50	0		23.28	23.26	23.66
20	50	24		23.13	23.61	23.72
20	50	49		22.99	23.64	23.27
20	100	0		23.01	23.55	23.48
20	1	0	16-QAM	23.20	22.83	23.42
20	1	49		23.18	23.51	23.60
20	1	99		23.23	23.47	22.91
20	50	0		22.59	22.49	22.96
20	50	24		22.28	22.90	23.01
20	50	49		22.23	22.90	22.34
20	100	0		22.15	22.83	22.71



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	17.31	18.77	21.11
1.4	1	2		17.26	18.85	21.36
1.4	1	5		17.46	19.20	21.79
1.4	3	0		17.44	18.85	21.42
1.4	3	1		17.46	18.95	21.59
1.4	3	2		17.54	19.12	21.89
1.4	6	0		16.54	18.08	20.78
1.4	1	0	16-QAM	16.29	17.85	20.41
1.4	1	2		16.23	17.95	20.63
1.4	1	5		16.53	18.30	21.15
1.4	3	0		16.53	17.94	20.49
1.4	3	1		16.55	18.04	20.70
1.4	3	2		16.58	18.20	21.00
1.4	6	0		15.70	17.37	19.74
3	1	0	QPSK	17.23	18.28	20.13
3	1	7		17.52	18.91	20.77
3	1	14		17.62	19.49	21.73
3	8	0		16.65	17.81	19.66
3	8	4		16.70	18.11	20.06
3	8	7		16.70	18.44	20.60
3	15	0		16.66	18.13	20.15
3	1	0	16-QAM	16.36	17.39	19.33
3	1	7		16.67	18.04	20.05
3	1	14		16.73	18.62	20.96
3	8	0		15.61	16.95	18.59
3	8	4		15.67	17.26	18.97
3	8	7		15.71	17.59	19.46
3	15	0		15.58	17.10	19.15



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	17.20	17.85	19.82
5	1	12		17.53	18.93	20.33
5	1	24		17.54	19.99	21.70
5	12	0		16.69	17.53	18.91
5	12	6		16.78	18.12	19.39
5	12	11		16.70	18.75	20.15
5	25	0		16.65	18.11	19.58
5	1	0	16-QAM	16.56	17.01	18.84
5	1	12		16.94	18.09	19.43
5	1	24		16.85	19.13	20.92
5	12	0		15.57	16.66	18.03
5	12	6		15.67	17.27	18.49
5	12	11		15.62	17.86	19.21
5	25	0		15.61	17.14	18.53
10	1	0	QPSK	16.99	17.18	21.92
10	1	24		17.49	18.67	19.68
10	1	49		17.43	20.01	21.20
10	25	0		16.43	16.83	18.93
10	25	12		16.39	17.92	18.72
10	25	24		16.29	18.84	19.07
10	50	0		16.31	17.81	18.89
10	1	0	16-QAM	16.24	16.23	19.22
10	1	24		16.56	17.79	18.87
10	1	49		16.57	19.08	20.37
10	25	0		15.42	15.94	18.02
10	25	12		15.48	16.98	17.77
10	25	24		15.37	17.93	18.07
10	50	0		15.33	16.89	17.95



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.57	23.69	21.35
5	1	12		22.56	23.26	22.58
5	1	24		22.31	23.58	22.54
5	12	0		22.02	23.20	21.33
5	12	6		21.97	23.27	21.64
5	12	11		21.77	23.16	21.96
5	25	0		21.86	23.20	21.68
5	1	0	16-QAM	22.11	22.86	20.73
5	1	12		22.02	22.92	21.85
5	1	24		21.78	22.77	21.94
5	12	0		21.15	22.43	20.36
5	12	6		21.15	22.55	20.73
5	12	11		20.91	22.44	21.04
5	25	0		21.10	22.39	20.61
10	1	0	QPSK	22.40	23.31	20.43
10	1	24		22.11	23.68	22.16
10	1	49		21.48	23.20	22.40
10	25	0		21.54	23.02	20.18
10	25	12		21.41	23.21	20.72
10	25	24		21.05	22.90	21.32
10	50	0		21.31	23.07	20.73
10	1	0	16-QAM	21.59	22.49	19.73
10	1	24		21.43	22.89	20.55
10	1	49		20.88	22.38	21.67
10	25	0		20.76	22.19	19.25
10	25	12		20.64	22.39	19.78
10	25	24		20.35	22.12	20.38
10	50	0		20.54	22.26	19.87



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.47	23.20	19.24
15	1	37		21.75	21.92	22.05
15	1	74		21.61	22.96	22.24
15	36	0		21.53	23.01	19.73
15	36	18		21.21	23.19	20.22
15	36	39		20.95	22.80	20.97
15	75	0		21.13	23.04	20.42
15	1	0	16-QAM	21.71	22.38	19.59
15	1	38		21.22	22.41	20.24
15	1	75		20.95	22.13	21.39
15	36	0		20.71	22.22	18.85
15	36	18		20.43	22.40	19.33
15	36	39		20.13	22.05	20.04
15	75	0		20.45	22.23	19.53
20	1	0	QPSK	22.33	22.75	20.88
20	1	49		21.73	23.72	20.55
20	1	99		21.56	22.40	22.27
20	50	0		21.27	22.84	19.83
20	50	24		20.98	23.16	19.92
20	50	49		20.83	22.61	20.65
20	100	0		20.90	22.95	20.13
20	1	0	16-QAM	21.47	21.93	20.03
20	1	49		20.93	22.90	19.70
20	1	99		18.65	21.57	21.44
20	50	0		20.50	22.08	18.96
20	50	24		20.19	22.39	19.12
20	50	49		20.02	21.82	19.72
20	100	0		20.20	22.18	19.28



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.06	23.70	25.86
1.4	1	2		23.21	23.51	25.88
1.4	1	5		23.17	23.49	26.16
1.4	3	0		23.36	23.68	25.89
1.4	3	1		23.33	23.67	25.96
1.4	3	2		23.27	23.61	26.08
1.4	6	0		22.79	22.83	25.14
1.4	1	0	16-QAM	22.57	22.98	24.98
1.4	1	2		22.42	22.92	24.98
1.4	1	5		22.42	25.34	25.28
1.4	3	0		22.62	25.45	24.93
1.4	3	1		22.59	24.89	25.06
1.4	3	2		22.55	25.42	25.19
1.4	6	0		22.09	24.60	24.33
3	1	0	QPSK	26.22	26.44	25.50
3	1	7		26.10	26.29	25.71
3	1	14		26.30	26.15	26.06
3	8	0		25.52	25.48	24.98
3	8	4		25.57	25.45	25.07
3	8	7		25.60	25.33	25.17
3	15	0		25.59	25.39	25.13
3	1	0	16-QAM	25.48	25.44	24.92
3	1	7		25.48	25.41	25.08
3	1	14		25.61	25.20	25.40
3	8	0		24.58	24.45	23.96
3	8	4		24.63	24.43	24.02
3	8	7		24.62	24.30	24.10
3	15	0		24.59	24.22	24.26



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	26.06	26.46	25.78
5	1	12		26.27	26.29	25.65
5	1	24		26.65	26.03	26.07
5	12	0		25.56	25.45	25.07
5	12	6		25.79	25.47	25.12
5	12	11		25.95	25.33	25.20
5	25	0		25.77	25.40	25.17
5	1	0	16-QAM	25.56	25.58	25.19
5	1	12		25.76	25.51	25.07
5	1	24		26.06	25.21	25.38
5	12	0		24.60	24.58	24.30
5	12	6		24.78	24.47	24.26
5	12	11		24.92	24.33	24.29
5	25	0		24.78	24.32	24.19
10	1	0	QPSK	25.90	26.34	26.06
10	1	24		26.57	26.08	25.78
10	1	49		26.69	25.50	25.74
10	25	0		25.56	25.34	25.06
10	25	12		25.68	25.24	25.12
10	25	24		25.26	25.14	24.93
10	50	0		25.42	25.23	25.04
10	1	0	16-QAM	25.15	25.41	25.29
10	1	24		25.77	25.24	25.19
10	1	49		25.10	24.68	25.06
10	25	0		24.60	24.38	24.03
10	25	12		24.76	24.23	24.18
10	25	24		24.30	24.13	23.95
10	50	0		24.45	24.24	24.08



LTE Band 13 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	21.37	21.39	21.48
5	1	12		21.62	21.76	22.13
5	1	24		21.45	21.95	22.22
5	12	0		21.44	21.45	21.89
5	12	6		21.54	21.64	22.14
5	12	11		21.51	21.84	22.27
5	25	0		21.46	21.65	22.08
5	1	0	16-QAM	21.49	21.39	21.85
5	1	12		21.76	21.78	22.50
5	1	24		21.62	21.98	22.57
5	12	0		21.49	21.56	21.90
5	12	6		21.60	21.76	22.15
5	12	11		21.58	21.97	22.28
5	25	0		21.42	21.65	22.12
10	1	0	QPSK	/	20.61	/
10	1	24		/	21.37	/
10	1	49		/	21.50	/
10	25	0		/	21.05	/
10	25	12		/	21.40	/
10	25	24		/	21.64	/
10	50	0		/	21.34	/
10	1	0	16-QAM	/	20.83	/
10	1	24		/	21.62	/
10	1	49		/	21.76	/
10	25	0		/	21.12	/
10	25	12		/	21.48	/
10	25	24		/	21.73	/
10	50	0		/	21.36	/



LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	26.22	26.13	25.82
5	1	12		26.32	26.15	25.70
5	1	24		26.15	25.64	26.00
5	12	0		25.40	25.51	25.14
5	12	6		25.46	25.55	25.24
5	12	11		25.48	25.35	25.24
5	25	0		25.45	25.50	25.28
5	1	0	16-QAM	25.60	25.31	25.22
5	1	12		25.75	25.39	25.11
5	1	24		25.65	24.93	25.28
5	12	0		24.36	24.60	24.28
5	12	6		24.39	24.68	24.23
5	12	11		24.37	24.49	24.27
5	25	0		24.39	24.49	24.13
10	1	0	QPSK	25.83	25.80	25.82
10	1	24		26.02	25.97	25.77
10	1	49		26.41	25.37	25.70
10	25	0		25.11	25.10	25.25
10	25	12		25.31	25.27	25.24
10	25	24		25.11	24.96	24.95
10	50	0		25.25	25.17	25.18
10	1	0	16-QAM	25.07	24.91	25.07
10	1	24		25.32	25.17	25.19
10	1	49		24.70	24.52	24.99
10	25	0		24.14	24.10	24.22
10	25	12		24.40	24.30	24.20
10	25	24		24.20	24.00	23.93
10	50	0		24.28	24.19	24.15



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	24.71	24.66	24.59
1.4	1	2		24.52	24.60	24.35
1.4	1	5		24.62	24.62	24.06
1.4	3	0		24.39	24.50	24.41
1.4	3	1		24.44	24.51	24.33
1.4	3	2		24.43	24.48	24.10
1.4	6	0		23.56	23.66	23.60
1.4	1	0	16-QAM	24.03	23.73	23.86
1.4	1	2		23.88	23.65	23.66
1.4	1	5		23.96	23.65	23.38
1.4	3	0		23.74	23.78	23.73
1.4	3	1		23.72	23.73	23.65
1.4	3	2		23.71	23.71	23.44
1.4	6	0		22.74	22.90	23.02
3	1	0	QPSK	24.42	24.60	24.68
3	1	7		24.49	24.51	24.69
3	1	14		24.39	24.39	24.03
3	8	0		23.54	23.75	24.06
3	8	4		23.55	23.69	24.02
3	8	7		23.53	23.65	23.75
3	15	0		23.54	23.66	23.94
3	1	0	16-QAM	23.77	23.80	24.15
3	1	7		23.79	23.76	24.17
3	1	14		23.73	23.70	23.48
3	8	0		22.75	22.97	23.17
3	8	4		22.71	22.86	23.14
3	8	7		22.69	22.82	22.89
3	15	0		22.58	22.66	23.16



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.46	24.74	24.43
5	1	12		24.50	24.61	24.82
5	1	24		24.44	24.46	24.13
5	12	0		23.52	23.82	23.96
5	12	6		23.63	23.72	24.14
5	12	11		23.63	23.64	23.92
5	25	0		23.57	23.67	23.98
5	1	0	16-QAM	23.89	24.00	23.73
5	1	12		24.00	23.93	24.21
5	1	24		23.96	23.82	23.45
5	12	0		22.66	23.01	23.20
5	12	6		22.72	22.98	23.40
5	12	11		22.73	22.89	23.19
5	25	0		22.70	22.81	23.11
10	1	0	QPSK	24.24	24.34	23.35
10	1	24		24.42	24.51	24.33
10	1	49		24.38	24.33	24.03
10	25	0		23.40	23.66	22.74
10	25	12		23.59	23.64	23.49
10	25	24		23.59	23.45	23.74
10	50	0		23.50	23.57	23.40
10	1	0	16-QAM	23.52	23.57	22.81
10	1	24		23.78	23.76	23.77
10	1	49		23.75	23.59	23.39
10	25	0		22.62	22.81	21.85
10	25	12		22.81	22.80	22.60
10	25	24		22.82	22.65	22.86
10	50	0		22.68	22.73	22.53



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	24.46	24.74	24.41
15	1	37		24.62	24.62	23.98
15	1	74		24.78	24.78	24.48
15	36	0		23.64	23.95	23.12
15	36	18		23.84	23.82	23.16
15	36	39		24.05	23.80	23.79
15	75	0		23.83	23.86	23.44
15	1	0	16-QAM	23.71	23.99	23.58
15	1	38		23.98	23.85	23.12
15	1	75		24.20	24.06	23.62
15	36	0		22.76	23.06	22.22
15	36	18		23.02	22.95	22.32
15	36	39		23.24	22.98	22.96
15	75	0		23.00	22.97	22.63
20	1	0	QPSK	24.38	24.71	24.79
20	1	49		24.75	24.69	24.00
20	1	99		24.64	24.86	24.52
20	50	0		23.69	23.89	23.62
20	50	24		24.14	23.88	23.20
20	50	49		24.13	23.87	23.51
20	100	0		24.03	24.00	23.51
20	1	0	16-QAM	23.63	23.94	24.04
20	1	49		24.09	23.91	23.15
20	1	99		24.00	24.05	23.74
20	50	0		22.86	23.05	22.75
20	50	24		23.28	23.01	22.42
20	50	49		23.27	23.04	22.69
20	100	0		23.16	23.12	22.72



LTE Band 26 Part22-824-849M Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	24.37	25.13	24.44
1.4	1	2		24.12	24.96	24.01
1.4	1	5		24.21	24.97	23.53
1.4	3	0		24.17	24.98	24.10
1.4	3	1		24.08	24.94	23.93
1.4	3	2		24.04	24.83	23.57
1.4	6	0		23.00	23.96	22.94
1.4	1	0	16-QAM	23.13	24.20	23.78
1.4	1	2		22.90	24.07	23.30
1.4	1	5		22.98	24.07	22.93
1.4	3	0		23.11	24.11	23.35
1.4	3	1		23.02	24.07	23.20
1.4	3	2		22.98	23.96	22.84
1.4	6	0		22.12	23.23	22.21
3	1	0	QPSK	24.07	25.02	25.25
3	1	7		23.98	24.94	24.68
3	1	14		23.91	24.55	23.38
3	8	0		22.96	24.10	24.06
3	8	4		22.89	24.02	23.76
3	8	7		22.91	23.81	23.12
3	15	0		22.92	23.95	23.62
3	1	0	16-QAM	23.27	24.11	24.53
3	1	7		23.18	24.08	23.98
3	1	14		23.12	23.69	22.74
3	8	0		22.05	23.21	23.15
3	8	4		22.03	23.14	22.88
3	8	7		22.03	22.92	22.27
3	15	0		21.90	22.90	22.86



LTE Band 26 Part22-824-849M Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.06	24.91	24.88
5	1	12		23.98	24.99	25.34
5	1	24		24.18	24.36	23.52
5	12	0		22.98	23.99	24.12
5	12	6		22.96	24.04	24.24
5	12	11		23.04	23.68	23.52
5	25	0		22.99	23.87	23.87
5	1	0	16-QAM	23.32	24.04	23.99
5	1	12		23.33	24.21	24.46
5	1	24		23.50	23.59	22.74
5	12	0		21.96	23.16	23.30
5	12	6		22.01	23.16	23.44
5	12	11		22.05	22.86	22.79
5	25	0		22.00	22.89	22.98
10	1	0	QPSK	23.78	24.46	23.91
10	1	24		24.07	24.83	24.52
10	1	49		24.70	23.75	23.49
10	25	0		22.72	23.68	22.92
10	25	12		23.16	23.73	23.54
10	25	24		23.47	23.12	23.63
10	50	0		23.15	23.41	23.35
10	1	0	16-QAM	22.88	23.49	23.15
10	1	24		23.24	23.94	23.78
10	1	49		23.91	22.85	22.82
10	25	0		21.77	22.73	21.98
10	25	12		22.21	22.85	22.59
10	25	24		22.53	22.24	22.72
10	50	0		22.16	22.54	22.44



LTE Band 26 Part22-824-849M Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	24.04	24.36	25.36
15	1	37		24.75	25.04	24.29
15	1	74		24.52	24.38	24.02
15	36	0		23.23	23.81	23.59
15	36	18		23.78	23.94	23.42
15	36	39		23.89	23.35	23.79
15	75	0		23.55	23.51	23.71
15	1	0	16-QAM	23.13	23.41	24.09
15	1	38		23.93	24.15	23.34
15	1	75		23.77	23.43	23.19
15	36	0		22.22	22.89	22.69
15	36	18		22.80	23.00	22.52
15	36	39		22.96	22.46	22.89
15	75	0		22.55	22.55	22.85



LTE Band 26 Part90-814-824M Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.94	24.85	24.16
1.4	1	2		23.96	24.69	24.12
1.4	1	5		24.35	24.65	24.31
1.4	3	0		23.81	24.64	23.97
1.4	3	1		23.93	24.57	24.00
1.4	3	2		24.13	24.51	23.97
1.4	6	0		22.98	23.64	22.92
1.4	1	0	16-QAM	22.88	24.12	22.94
1.4	1	2		22.96	24.00	22.87
1.4	1	5		23.39	23.98	23.11
1.4	3	0		22.84	23.79	22.97
1.4	3	1		22.96	23.83	23.04
1.4	3	2		23.17	23.68	23.06
1.4	6	0		22.22	22.75	22.12
3	1	0	QPSK	23.78	24.75	24.15
3	1	7		24.44	24.65	24.07
3	1	14		24.78	24.26	24.14
3	8	0		23.18	23.70	22.97
3	8	4		23.45	23.66	22.97
3	8	7		23.67	23.50	22.98
3	15	0		23.41	23.57	22.95
3	1	0	16-QAM	22.98	23.72	23.29
3	1	7		23.68	23.69	23.25
3	1	14		23.96	23.32	23.34
3	8	0		22.23	22.77	21.95
3	8	4		22.55	22.73	21.91
3	8	7		22.79	22.58	21.91
3	15	0		22.41	22.47	22.02



LTE Band 26 Part90-814-824M Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.76	24.69	24.63
5	1	12		24.70	24.71	24.17
5	1	24		24.66	24.10	24.19
5	12	0		23.30	23.73	23.17
5	12	6		23.63	23.70	23.01
5	12	11		23.69	23.27	22.93
5	25	0		23.59	23.51	23.09
5	1	0	16-QAM	23.20	23.81	23.59
5	1	12		24.14	23.85	23.22
5	1	24		24.03	23.18	23.17
5	12	0		22.30	22.83	22.31
5	12	6		22.75	22.81	22.14
5	12	11		22.83	22.40	21.98
5	25	0		22.69	22.54	22.06
10	1	0	QPSK	N/A	23.65	N/A
10	1	24		N/A	24.91	N/A
10	1	49		N/A	23.77	N/A
10	25	0		N/A	23.20	N/A
10	25	12		N/A	23.36	N/A
10	25	24		N/A	22.86	N/A
10	50	0		N/A	23.07	N/A
10	1	0	16-QAM	N/A	22.75	N/A
10	1	24		N/A	23.71	N/A
10	1	49		N/A	22.89	N/A
10	25	0		N/A	22.32	N/A
10	25	12		N/A	22.56	N/A
10	25	24		N/A	21.98	N/A
10	50	0		N/A	22.12	N/A



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	22.81	23.29	22.99
1.4	1	2		22.73	23.14	22.74
1.4	1	5		22.77	23.27	22.74
1.4	3	0		22.70	23.17	22.70
1.4	3	1		22.70	23.19	22.66
1.4	3	2		22.69	23.17	22.55
1.4	6	0		21.83	22.40	21.78
1.4	1	0	16-QAM	21.97	22.73	21.93
1.4	1	2		21.83	22.60	21.74
1.4	1	5		21.94	22.65	21.69
1.4	3	0		21.82	22.55	21.90
1.4	3	1		21.82	22.56	21.86
1.4	3	2		21.82	22.52	21.76
1.4	6	0		21.14	21.60	21.12
3	1	0	QPSK	22.61	23.16	23.06
3	1	7		22.61	23.11	22.85
3	1	14		22.50	22.97	22.48
3	8	0		21.79	22.41	22.12
3	8	4		21.83	22.39	22.02
3	8	7		21.74	22.35	21.82
3	15	0		21.80	22.36	21.97
3	1	0	16-QAM	21.95	22.35	22.53
3	1	7		21.97	22.35	22.28
3	1	14		21.81	22.22	21.96
3	8	0		21.00	21.58	21.27
3	8	4		21.03	21.56	21.18
3	8	7		20.91	21.52	20.99
3	15	0		20.90	21.36	21.26



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.59	23.12	23.42
5	1	12		22.53	23.11	23.10
5	1	24		22.25	22.90	22.57
5	12	0		21.77	22.35	22.38
5	12	6		21.76	22.38	22.25
5	12	11		21.54	22.27	21.89
5	25	0		21.65	22.30	22.14
5	1	0	16-QAM	22.08	22.47	22.59
5	1	12		22.07	22.46	22.33
5	1	24		21.68	22.19	21.74
5	12	0		20.90	21.56	21.66
5	12	6		20.86	21.57	21.56
5	12	11		20.65	21.46	21.20
5	25	0		20.82	21.39	21.33
10	1	0	QPSK	22.32	22.95	22.78
10	1	24		22.10	23.11	23.31
10	1	49		21.18	22.21	22.35
10	25	0		21.38	22.28	22.29
10	25	12		21.20	22.28	22.47
10	25	24		20.74	21.94	22.06
10	50	0		21.06	22.06	22.19
10	1	0	16-QAM	21.62	22.25	22.23
10	1	24		21.55	22.27	22.76
10	1	49		20.66	21.54	21.79
10	25	0		20.55	21.38	21.33
10	25	12		20.44	21.38	21.52
10	25	24		19.93	21.02	21.13
10	50	0		20.22	21.17	21.27



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.56	23.15	22.28
15	1	37		21.89	23.14	23.46
15	1	74		21.60	22.14	22.65
15	36	0		21.40	22.46	21.94
15	36	18		21.04	22.33	22.48
15	36	39		20.57	21.85	22.37
15	75	0		20.94	22.12	22.19
15	1	0	16-QAM	21.85	22.35	21.33
15	1	38		21.22	22.39	22.58
15	1	75		20.91	21.35	21.76
15	36	0		20.50	21.60	20.99
15	36	18		20.14	21.47	21.56
15	36	39		19.72	21.04	21.48
15	75	0		20.04	21.23	21.30
20	1	0	QPSK	22.38	22.81	21.46
20	1	49		21.51	23.10	22.97
20	1	99		22.07	21.66	22.50
20	50	0		21.01	23.47	21.17
20	50	24		20.62	22.21	22.04
20	50	49		20.59	21.50	22.21
20	100	0		20.63	21.88	21.74
20	1	0	16-QAM	21.62	21.99	20.67
20	1	49		20.84	22.25	22.18
20	1	99		21.30	20.94	21.74
20	50	0		20.18	21.46	20.32
20	50	24		19.80	21.34	21.18
20	50	49		19.78	20.63	21.37
20	100	0		19.80	21.01	20.87



LTE Band 71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.83	21.84	20.53
5	1	2		23.23	21.77	20.33
5	1	5		22.29	21.74	20.60
5	3	0		22.41	20.80	19.22
5	3	1		22.20	20.79	19.18
5	3	2		21.16	20.69	19.36
5	6	0		21.97	20.74	19.28
5	1	0	16-QAM	22.65	21.00	19.70
5	1	2		22.39	20.91	19.35
5	1	5		21.61	20.87	19.72
5	3	0		21.13	19.84	18.36
5	3	1		21.09	19.85	18.29
5	3	2		20.10	19.76	18.39
5	6	0		20.92	19.67	18.24
10	1	0	QPSK	23.85	21.37	20.67
10	1	7		22.10	21.55	20.54
10	1	14		21.50	20.88	20.06
10	8	0		21.44	20.53	19.50
10	8	4		21.04	20.56	19.35
10	8	7		20.90	20.31	18.94
10	15	0		20.63	20.41	19.24
10	1	0	16-QAM	22.39	20.46	20.04
10	1	7		21.26	20.58	19.86
10	1	14		20.82	20.02	19.30
10	8	0		20.40	19.50	18.48
10	8	4		19.99	19.50	18.32
10	8	7		19.91	19.27	17.88
10	15	0		19.54	19.39	18.21



LTE Band 71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.82	21.90	21.73
15	1	12		22.33	21.77	21.06
15	1	24		22.03	21.33	20.77
15	12	0		20.97	20.93	20.39
15	12	6		21.32	20.86	20.05
15	12	11		21.10	20.60	19.46
15	25	0		21.02	20.73	19.91
15	1	0	16-QAM	22.51	20.90	20.64
15	1	12		21.57	20.87	20.06
15	1	24		21.24	20.42	19.73
15	12	0		19.88	19.90	19.31
15	12	6		20.26	19.85	19.00
15	12	11		20.03	19.58	18.41
15	25	0		19.94	19.67	18.86
20	1	0	QPSK	24.01	21.88	21.54
20	1	24		22.21	21.78	21.46
20	1	49		21.41	20.66	20.43
20	25	0		20.99	20.89	20.51
20	25	12		21.19	20.86	20.30
20	25	24		20.87	20.48	19.60
20	50	0		20.94	20.68	20.10
20	1	0	16-QAM	22.60	20.97	20.61
20	1	24		21.33	20.80	20.54
20	1	49		20.63	19.77	19.42
20	25	0		19.94	19.86	19.50
20	25	12		20.16	19.82	19.29
20	25	24		19.82	19.43	18.61
20	50	0		19.87	19.64	19.08

**2.4G WLAN**

2.4GWIFI				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
802.11b	1	2412	15.79	37.93
	6	2437	13.46	22.18
	11	2462	14.90	30.90
802.11g	1	2412	14.19	26.24
	6	2437	11.99	15.81
	11	2462	12.67	18.49
802.11 n20	1	2412	13.50	22.39
	6	2437	11.89	15.45
	11	2462	12.44	17.54
802.11 n40	3	2422	13.27	21.23
	6	2437	12.21	16.63
	9	2452	11.82	15.21
802.11 AX20	1	2412	13.39	21.83
	6	2437	11.82	15.21
	11	2462	12.22	16.67
802.11 AX40	3	2422	12.90	19.50
	6	2437	12.37	17.26
	9	2452	11.63	14.55

11. EUT and Test Setup Photo

11.1 EUT Photo

Front side



Back side





Top side



Bottom side





Left side



Right side





11.2 Setup Photo

Limbs Front side(separation distance is 0mm)



Limbs Back Side (separation distance is 0mm)





Limbs Left side(separation distance is 0mm)



Limbs Right Side (separation distance is 0mm)





Limbs Top side(separation distance is 0mm)

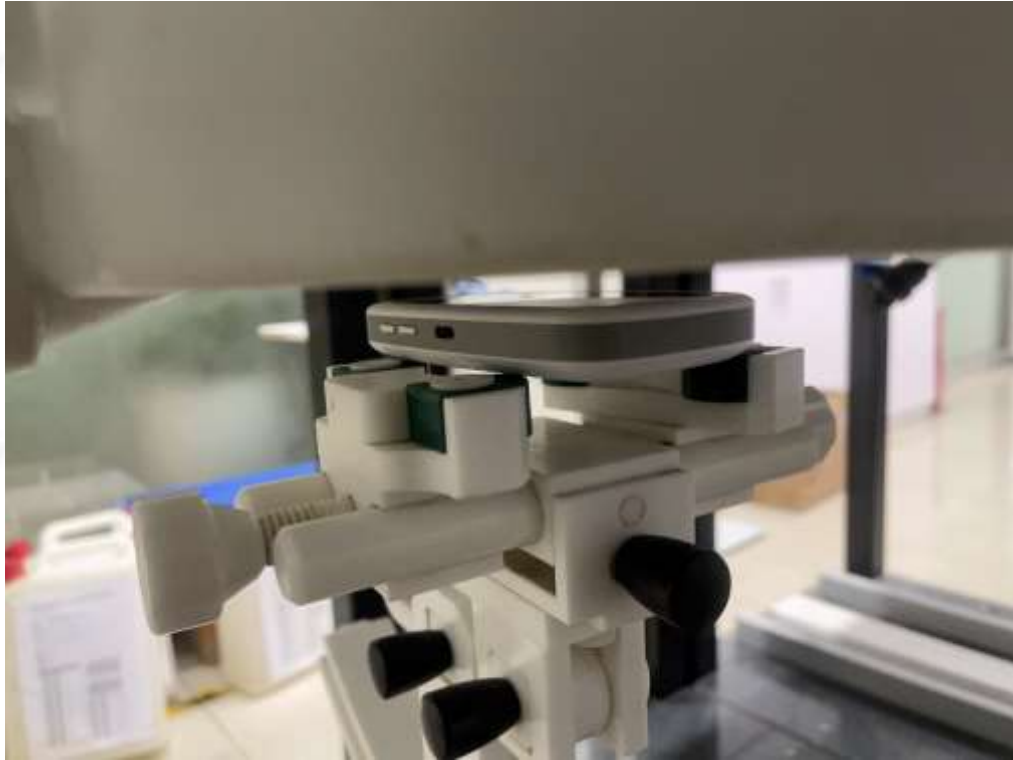


Limbs Bottom Side (separation distance is 0mm)

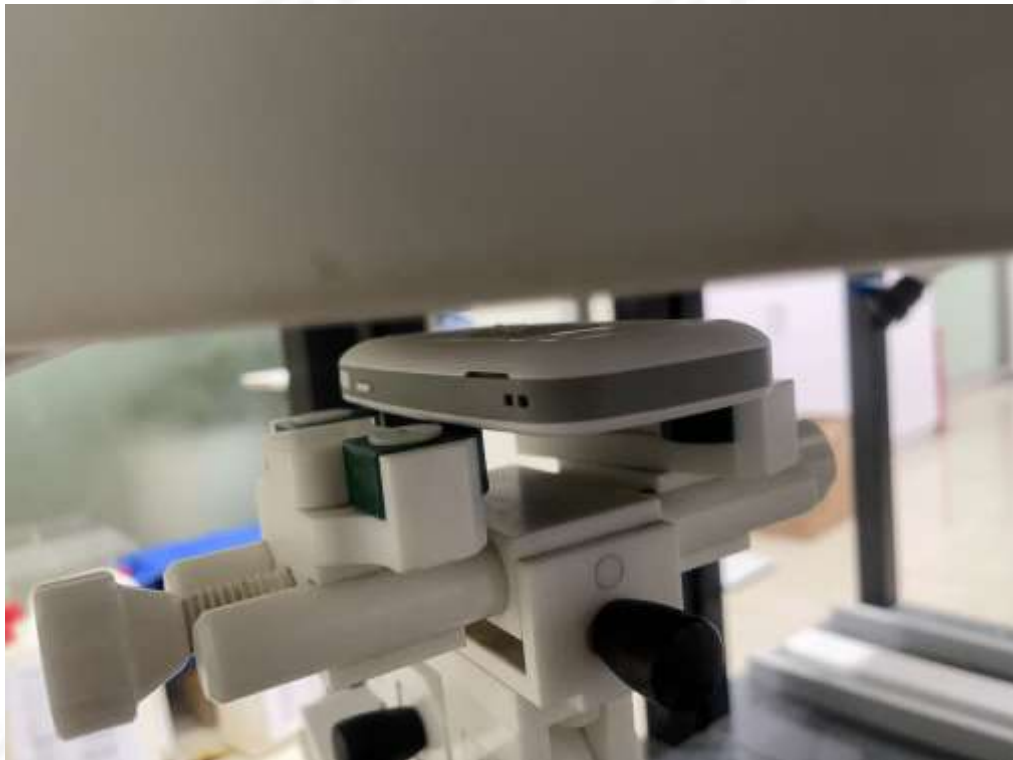




Body Front side(separation distance is 5mm)



Body Back Side (separation distance is 5mm)

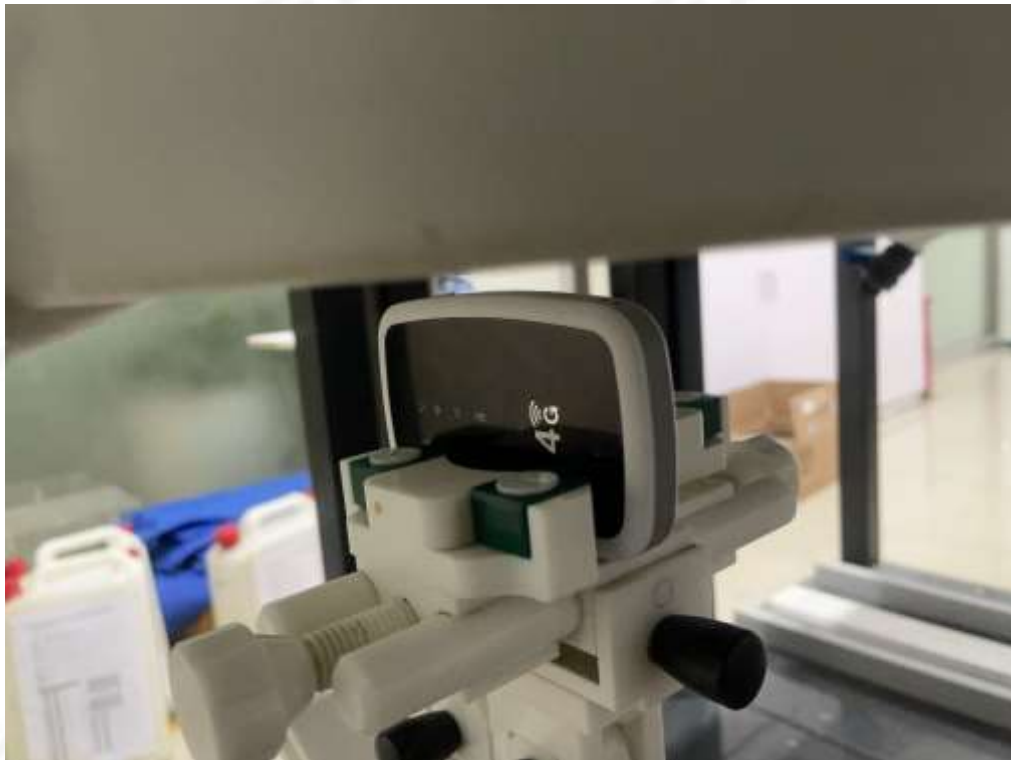




Body Left side(separation distance is 5mm)



Body Right Side (separation distance is 5mm)





Body Top side(separation distance is 5mm)

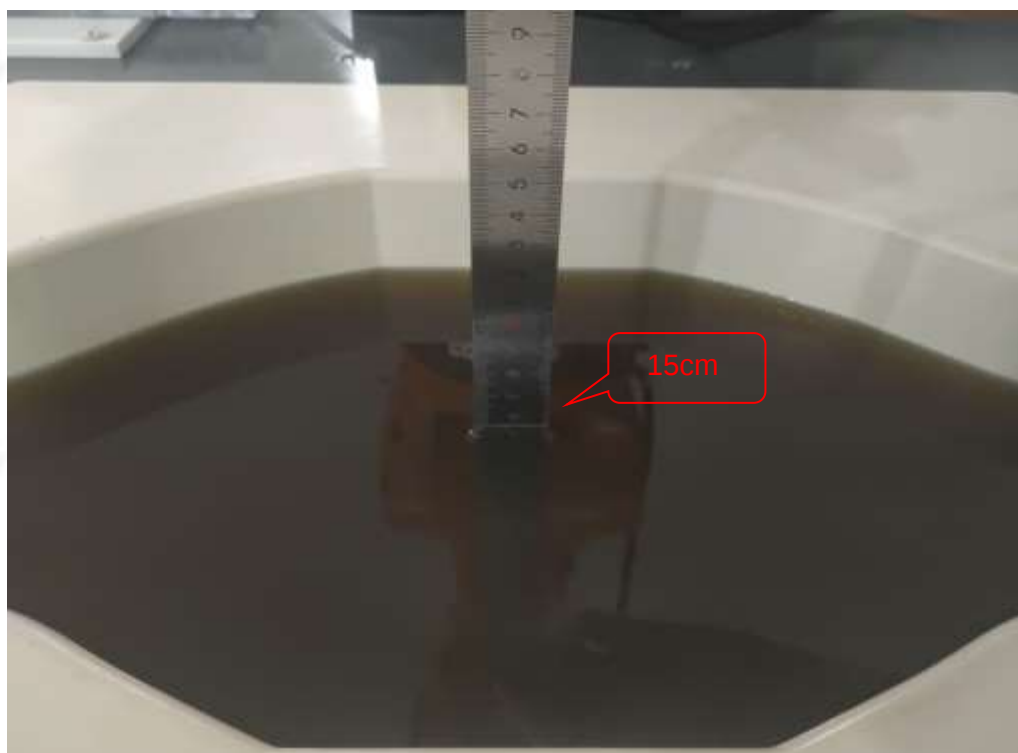


Body Bottom Side (separation distance is 5mm)





Liquid depth (15 cm)





12. SAR Result Summary

12.1 Limbs SAR

Band	Model	Test Position	Freq.	SAR (10g) (W/kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaling Factor	Scaled SAR (W/Kg)	Meas.No.
WCDMA Band 2	RMC	Front	1907.6	1.655	-3.73	24.00	23.54	1.112	1.840	/
		Back	1852.4	1.902	-0.94	24.00	22.94	1.276	2.428	/
		Back	1880	1.869	0.97	24.00	22.88	1.294	2.419	/
		Back	1907.6	2.243	-0.92	24.00	23.54	1.112	2.494	1
		Left	1907.6	1.41	-3.46	24.00	23.54	1.112	1.568	/
		Right	1907.6	1.362	-2.72	24.00	23.54	1.112	1.514	/
		Top	1907.6	1.695	3.24	24.00	23.54	1.112	1.884	/
WCDMA Band 4	RMC	Front	1740	0.598	-2.95	24.00	23.60	1.096	0.656	/
		Back	1740	0.81	-2.14	24.00	23.60	1.096	0.888	3
		Left	1740	0.663	1.41	24.00	23.60	1.096	0.727	/
		Right	1740	0.525	-1.04	24.00	23.60	1.096	0.576	/
		Top	1740	0.701	-0.69	24.00	23.60	1.096	0.769	/
WCDMA Band 5	RMC	Front	846.6	1.001	3.03	18.50	18.37	1.030	1.031	/
		Back	846.6	1.409	3.99	18.50	18.37	1.030	1.452	5
		Left	846.6	0.748	0.54	18.50	18.37	1.030	0.771	/
		Right	846.6	0.610	2.86	18.50	18.37	1.030	0.629	/
		Top	846.6	0.805	0.50	18.50	18.37	1.030	0.829	/
2.4GHz WLAN	802.11b	Front	2412	0.041	-2.40	16.00	15.79	1.050	0.043	/
		Back	2412	0.062	0.78	16.00	15.79	1.050	0.065	7
		Left	2412	0.036	1.32	16.00	15.79	1.050	0.038	/
		Right	2412	0.048	-1.88	16.00	15.79	1.050	0.050	/
		Bottom	2412	0.056	2.20	16.00	15.79	1.050	0.059	/



Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Result 10g (W/Kg)	Power Drift(%)	Max. Turn-up Power (dBm)	Meas. Output Power(dBm)	Scaling Factor	Scale d SAR (W/Kg)	Meas. No.
LTE Band 5	10M	QPSK	1	0	Front	844	0.855	-1.12	22.00	21.92	1.019	0.871	/
			25	24	Front	844	0.796	2.39	19.50	19.07	1.104	0.879	/
			1	0	Back	844	1.167	0.93	22.00	21.92	1.019	1.189	9
			25	24	Back	844	1.052	-2.50	19.50	19.07	1.104	1.161	/
			1	0	Left	844	0.695	-2.52	22.00	21.92	1.019	0.708	/
			25	24	Left	844	0.701	0.23	19.50	19.07	1.104	0.774	/
			1	0	Right	844	0.660	-0.93	22.00	21.92	1.019	0.672	/
			25	24	Right	844	0.641	-1.45	19.50	19.07	1.104	0.708	/
			1	0	Top	844	0.859	1.34	22.00	21.92	1.019	0.875	/
			25	24	Top	844	0.841	0.60	19.50	19.07	1.104	0.929	/
LTE Band 7	10M	QPSK	1	49	Front	2535	0.674	2.97	24.00	23.72	1.067	0.719	/
			50	24	Front	2535	0.701	-3.66	23.50	23.16	1.081	0.758	/
			1	0	Back	2535	1.012	-1.68	24.00	23.72	1.067	1.079	11
			50	0	Back	2535	0.952	-0.32	23.50	23.16	1.081	1.030	/
			1	0	Left	2535	0.440	-1.87	24.00	23.72	1.067	0.469	/
			50	0	Left	2535	0.469	3.07	23.50	23.16	1.081	0.507	/
			1	0	Right	2535	0.531	-1.00	24.00	23.72	1.067	0.566	/
			50	0	Right	2535	0.511	-2.60	23.50	23.16	1.081	0.553	/
			1	0	Top	2535	0.890	-2.15	24.00	23.72	1.067	0.949	/
			50	0	Top	2535	0.877	-3.99	23.50	23.16	1.081	0.948	/
LTE Band 12&1 7	10M	QPSK	1	49	Front	704	0.201	-1.93	27.00	26.69	1.074	0.216	/
			25	12	Front	704	0.189	-0.14	26.00	25.68	1.076	0.203	/
			1	0	Back	704	0.311	3.01	27.00	26.69	1.074	0.334	13
			25	0	Back	704	0.289	-1.33	26.00	25.68	1.076	0.311	/
			1	0	Left	704	0.166	-1.34	27.00	26.69	1.074	0.178	/
			25	0	Left	704	0.178	-1.88	26.00	25.68	1.076	0.192	/
			1	0	Right	704	0.169	-3.34	27.00	26.69	1.074	0.182	/
			25	0	Right	704	0.141	1.97	26.00	25.68	1.076	0.152	/
			1	0	Top	704	0.202	0.46	27.00	26.69	1.074	0.217	/
			25	0	Top	704	0.264	-2.80	26.00	25.68	1.076	0.284	/
LTE Band 13	10M	QPSK	1	49	Front	782	0.302	-3.82	22.50	21.50	1.259	0.380	/
			25	24	Front	782	0.366	-0.31	22.00	21.64	1.086	0.398	/
			1	49	Back	782	0.414	-3.74	22.50	21.50	1.259	0.521	15
			25	24	Back	782	0.393	1.85	22.00	21.64	1.086	0.427	/



			1	49	Left	782	0.251	-3.13	22.50	21.50	1.259	0.316	/
			25	24	Left	782	0.241	0.22	22.00	21.64	1.086	0.262	/
			1	49	Right	782	0.233	0.79	22.50	21.50	1.259	0.293	/
			25	24	Right	782	0.252	-3.94	22.00	21.64	1.086	0.274	/
			1	49	Top	782	0.221	3.03	22.50	21.50	1.259	0.278	/
			25	24	Top	782	0.241	2.21	22.00	21.64	1.086	0.262	/
LTE Band 25&2	20M	QPS K	1	99	Front	1882.5	0.699	-1.11	25.00	24.86	1.033	0.722	/
			50	24	Front	1860	0.710	-0.97	24.50	24.14	1.086	0.771	/
			1	99	Back	1882.5	1.060	-2.50	25.00	24.86	1.033	1.095	17
			50	24	Back	1860	0.969	1.55	24.50	24.14	1.086	1.053	/
			1	99	Left	1882.5	0.688	1.36	25.00	24.86	1.033	0.711	/
			50	24	Left	1860	0.614	-0.63	24.50	24.14	1.086	0.667	/
			1	99	Right	1882.5	0.582	0.13	25.00	24.86	1.033	0.601	/
			50	24	Right	1860	0.517	2.17	24.50	24.14	1.086	0.562	/
			1	99	Top	1882.5	0.789	-1.79	25.00	24.86	1.033	0.815	/
			50	24	Top	1860	0.761	-3.24	24.50	24.14	1.086	0.827	/
LTE Band 26	15M	QPS K	1	0	Front	841.5	0.514	2.91	25.50	25.36	1.033	0.531	/
			36	18	Front	831.5	0.478	0.77	24.00	23.94	1.014	0.485	/
			1	0	Back	841.5	0.962	0.14	25.50	25.36	1.033	0.994	19
			36	18	Back	831.5	0.858	-2.47	24.00	23.94	1.014	0.870	/
			1	0	Left	841.5	0.661	3.01	25.50	25.36	1.033	0.683	/
			36	18	Left	831.5	0.620	0.88	24.00	23.94	1.014	0.629	/
			1	0	Right	841.5	0.731	-3.08	25.50	25.36	1.033	0.755	/
			36	18	Right	831.5	0.710	2.38	24.00	23.94	1.014	0.720	/
			1	0	Top	841.5	0.884	1.21	25.50	25.36	1.033	0.913	/
			36	18	Top	831.5	0.813	-3.01	24.00	23.94	1.014	0.824	/
LTE Band 66&4	20M	QPS K	1	49	Front	1755	0.411	3.89	23.50	23.10	1.096	0.451	/
			50	0	Front	1755	0.526	0.71	23.50	23.47	1.007	0.530	/
			1	49	Back	1755	0.712	1.70	23.50	23.10	1.096	0.781	21
			50	0	Back	1755	0.752	0.32	23.50	23.47	1.007	0.757	/
			1	49	Left	1755	0.521	-0.08	23.50	23.10	1.096	0.571	/
			50	0	Left	1755	0.598	-0.38	23.50	23.47	1.007	0.602	/
			1	49	Right	1755	0.661	-1.09	23.50	23.10	1.096	0.725	/
			50	0	Right	1755	0.614	-1.83	23.50	23.47	1.007	0.618	/
			1	49	Top	1755	0.585	0.46	23.50	23.10	1.096	0.641	/
			50	0	Top	1755	0.514	-3.51	23.50	23.47	1.007	0.518	/
	20M	QPS K	1	0	Front	673	0.147	-3.48	24.50	24.01	1.119	0.165	/
			25	12	Front	673	0.152	-1.50	21.50	21.19	1.074	0.163	/



LTE Band 71			1	0	Back	673	0.234	-2.20	24.50	24.01	1.119	0.262	23
			25	12	Back	673	0.221	1.00	21.50	21.19	1.074	0.237	/
			1	0	Left	673	0.166	-3.10	24.50	24.01	1.119	0.186	/
			25	12	Left	673	0.136	2.62	21.50	21.19	1.074	0.146	/
			1	0	Right	673	0.152	-3.92	24.50	24.01	1.119	0.170	/
			25	12	Right	673	0.147	-2.63	21.50	21.19	1.074	0.158	/
			1	0	Top	673	0.198	-0.39	24.50	24.01	1.119	0.222	/
			25	12	Top	673	0.174	0.90	21.50	21.19	1.074	0.187	/

Note:

- The test separation of all above table is 0mm.
- Per KDB 447498 D04, 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
- Per KDB 248227- When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg. (The highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power was **0.369** W/Kg for Body)
- When the user enables the personal Wireless router functions for the handsets, actual operations include simultaneous transmission of both the Wi-Fi transmitting frequency and thus cannot be evaluated for SAR under actual use conditions. The "Portable Hotspot" feature on the handset was NOT activated, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal.

**12.2 Body SAR**

Band	Model	Test Position	Freq.	SAR (1g) (W/kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaling Factor	Scaled SAR (W/Kg)	Meas.No.
WCDMA Band 2	RMC	Front	1907.6	0.711	-3.33	24.00	23.54	1.112	0.790	/
		Back	1852.4	0.910	3.68	24.00	22.94	1.276	1.162	/
		Back	1880	0.903	-2.23	24.00	22.88	1.294	1.169	/
		Back	1907.6	1.105	-2.72	24.00	23.54	1.112	1.228	2
		Left	1907.6	0.458	2.31	24.00	23.54	1.112	0.509	/
		Right	1907.6	0.585	3.74	24.00	23.54	1.112	0.650	/
		Top	1907.6	0.620	-2.00	24.00	23.54	1.112	0.689	/
WCDMA Band 4	RMC	Front	1740	0.633	2.47	24.00	23.60	1.096	0.694	/
		Back	1740	0.712	1.18	24.00	23.60	1.096	0.781	4
		Left	1740	0.369	1.32	24.00	23.60	1.096	0.405	/
		Right	1740	0.401	0.98	24.00	23.60	1.096	0.440	/
		Top	1740	0.411	-1.37	24.00	23.60	1.096	0.451	/
WCDMA Band 5	RMC	Front	846.6	0.522	1.14	18.50	18.37	1.030	0.538	/
		Back	846.6	0.755	0.29	18.50	18.37	1.030	0.778	6
		Left	846.6	0.369	1.60	18.50	18.37	1.030	0.380	/
		Right	846.6	0.341	0.14	18.50	18.37	1.030	0.351	/
		Top	846.6	0.458	-2.94	18.50	18.37	1.030	0.472	/
2.4GHz WLAN	802.11b	Front	2412	0.014	2.15	16.00	15.79	1.050	0.015	/
		Back	2412	0.020	-0.87	16.00	15.79	1.050	0.021	8
		Left	2412	0.015	-3.97	16.00	15.79	1.050	0.016	/
		Right	2412	0.014	1.79	16.00	15.79	1.050	0.015	/
		Bottom	2412	0.017	0.20	16.00	15.79	1.050	0.018	/



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 5	10M	QPSK	1	0	Front	844	0.598	-2.49	22.00	21.92	1.019	0.609	/
			25	24	Front	844	0.569	3.14	19.50	19.07	1.104	0.628	/
			1	0	Back	844	0.766	3.41	22.00	21.92	1.019	0.780	10
			25	24	Back	844	0.701	-2.82	19.50	19.07	1.104	0.774	/
			1	0	Left	844	0.485	2.43	22.00	21.92	1.019	0.494	/
			25	24	Left	844	0.514	2.30	19.50	19.07	1.104	0.567	/
			1	0	Right	844	0.478	1.94	22.00	21.92	1.019	0.487	/
			25	24	Right	844	0.415	3.97	19.50	19.07	1.104	0.458	/
			1	0	Top	844	0.521	3.80	22.00	21.92	1.019	0.531	/
			25	24	Top	844	0.533	2.48	19.50	19.07	1.104	0.588	/
LTE Band 7	10M	QPSK	1	49	Front	2535	0.514	-2.31	24.00	23.72	1.067	0.548	/
			50	24	Front	2535	0.485	-0.88	23.50	23.16	1.081	0.524	/
			1	0	Back	2535	0.555	-1.06	24.00	23.72	1.067	0.592	12
			50	0	Back	2535	0.526	1.04	23.50	23.16	1.081	0.569	/
			1	0	Left	2535	0.369	0.17	24.00	23.72	1.067	0.394	/
			50	0	Left	2535	0.352	-1.35	23.50	23.16	1.081	0.381	/
			1	0	Right	2535	0.410	-3.85	24.00	23.72	1.067	0.437	/
			50	0	Right	2535	0.358	1.57	23.50	23.16	1.081	0.387	/
			1	0	Top	2535	0.441	1.78	24.00	23.72	1.067	0.470	/
			50	0	Top	2535	0.436	-3.55	23.50	23.16	1.081	0.472	/
LTE Band 12&17	10M	QPSK	1	49	Front	704	0.085	-1.74	27.00	26.69	1.074	0.091	/
			25	12	Front	704	0.071	1.10	26.00	25.68	1.076	0.076	/
			1	0	Back	704	0.098	1.11	27.00	26.69	1.074	0.105	14
			25	0	Back	704	0.092	1.26	26.00	25.68	1.076	0.099	/
			1	0	Left	704	0.066	-1.15	27.00	26.69	1.074	0.071	/
			25	0	Left	704	0.061	-3.73	26.00	25.68	1.076	0.066	/
			1	0	Right	704	0.052	-3.95	27.00	26.69	1.074	0.056	/
			25	0	Right	704	0.059	3.03	26.00	25.68	1.076	0.064	/
			1	0	Top	704	0.071	2.92	27.00	26.69	1.074	0.076	/
			25	0	Top	704	0.068	0.06	26.00	25.68	1.076	0.073	/
LTE Band 13	10M	QPSK	1	49	Front	782	0.102	0.63	22.50	21.50	1.259	0.128	/
			25	24	Front	782	0.115	-2.14	22.00	21.64	1.086	0.125	/
			1	49	Back	782	0.161	-0.35	22.50	21.50	1.259	0.203	16
			25	24	Back	782	0.152	-3.69	22.00	21.64	1.086	0.165	/
			1	49	Left	782	0.085	0.99	22.50	21.50	1.259	0.107	/



			25	24	Left	782	0.095	-2.07	22.00	21.64	1.086	0.103	/
			1	49	Right	782	0.106	-0.25	22.50	21.50	1.259	0.133	/
			25	24	Right	782	0.098	0.36	22.00	21.64	1.086	0.106	/
			1	49	Top	782	0.122	2.75	22.50	21.50	1.259	0.154	/
			25	24	Top	782	0.118	1.94	22.00	21.64	1.086	0.128	/
LTE Band 25&2	20M	QPSK	1	99	Front	1882.5	0.758	-0.04	25.00	24.86	1.033	0.783	/
			50	24	Front	1860	0.714	3.13	24.50	24.14	1.086	0.776	/
			1	99	Back	1860	1.022	-3.20	25.00	24.64	1.086	1.110	/
			1	99	Back	1882.5	1.166	-3.25	25.00	24.86	1.033	1.204	18
			1	99	Back	1905	1.053	0.43	25.00	24.52	1.117	1.176	/
			50	24	Back	1860	0.985	-2.31	24.50	24.14	1.086	1.070	/
			50	24	Back	1882.5	1.025	-3.34	24.50	23.88	1.153	1.182	/
			50	24	Back	1905	0.851	-3.94	24.50	23.20	1.349	1.148	/
			100	0	Back	1860	0.902	-0.75	24.50	24.03	1.114	1.005	/
			100	0	Back	1882.5	0.996	1.58	24.50	24.00	1.122	1.118	/
			100	0	Back	1905	0.900	3.45	24.50	23.50	1.259	1.133	/
			1	99	Left	1882.5	0.741	-1.43	25.00	24.86	1.033	0.765	/
			50	24	Left	1860	0.714	-1.18	24.50	24.14	1.086	0.776	/
			1	99	Right	1882.5	0.614	-1.57	25.00	24.86	1.033	0.634	/
			50	24	Right	1860	0.633	-1.85	24.50	24.14	1.086	0.688	/
			1	99	Top	1860	0.836	-1.89	25.00	24.64	1.086	0.908	/
			1	99	Top	1882.5	0.858	-1.37	25.00	24.86	1.033	0.886	/
			1	99	Top	1905	0.921	1.61	25.00	24.52	1.117	1.029	/
			50	24	Top	1860	0.841	2.41	24.50	24.14	1.086	0.914	/
			50	24	Top	1882.5	0.902	3.63	24.50	23.88	1.153	1.040	/
			50	24	Top	1905	0.825	-1.07	24.50	23.20	1.349	1.113	/
			100	0	Top	1860	0.811	-3.12	24.50	24.03	1.114	0.904	/
			100	0	Top	1882.5	0.863	3.40	24.50	24.00	1.122	0.968	/
			100	0	Top	1905	0.902	0.09	24.50	23.50	1.259	1.136	/
LTE Band 26	15M	QPSK	1	0	Front	841.5	0.311	-1.72	25.50	25.36	1.033	0.321	/
			36	18	Front	831.5	0.285	-0.71	24.00	23.94	1.014	0.289	/
			1	0	Back	841.5	0.510	2.63	25.50	25.36	1.033	0.527	20
			36	18	Back	831.5	0.489	0.24	24.00	23.94	1.014	0.496	/
			1	0	Left	841.5	0.366	3.41	25.50	25.36	1.033	0.378	/
			36	18	Left	831.5	0.325	2.34	24.00	23.94	1.014	0.330	/
			1	0	Right	841.5	0.250	1.01	25.50	25.36	1.033	0.258	/
			36	18	Right	831.5	0.233	-1.29	24.00	23.94	1.014	0.236	/
			1	0	Top	841.5	0.401	3.77	25.50	25.36	1.033	0.414	/



			36	18	Top	831.5	0.358	-3.88	24.00	23.94	1.014	0.363	/
LTE Band 66&4	20M	QPSK	1	49	Front	1755	0.335	-1.56	23.50	23.10	1.096	0.367	/
			50	0	Front	1755	0.410	-2.90	23.50	23.47	1.007	0.413	/
			1	49	Back	1755	0.710	1.42	23.50	23.10	1.096	0.778	22
			50	0	Back	1755	0.697	3.64	23.50	23.47	1.007	0.702	/
			1	49	Left	1755	0.411	3.63	23.50	23.10	1.096	0.451	/
			50	0	Left	1755	0.385	2.02	23.50	23.47	1.007	0.388	/
			1	49	Right	1755	0.369	3.26	23.50	23.10	1.096	0.405	/
			50	0	Right	1755	0.335	-2.01	23.50	23.47	1.007	0.337	/
			1	49	Top	1755	0.502	3.70	23.50	23.10	1.096	0.550	/
			50	0	Top	1755	0.472	2.63	23.50	23.47	1.007	0.475	/
LTE Band 71	20M	QPSK	1	0	Front	673	0.066	3.94	24.50	24.01	1.119	0.074	/
			25	12	Front	673	0.058	-2.22	21.50	21.19	1.074	0.062	/
			1	0	Back	673	0.082	1.41	24.50	24.01	1.119	0.092	24
			25	12	Back	673	0.074	-2.66	21.50	21.19	1.074	0.079	/
			1	0	Left	673	0.036	3.07	24.50	24.01	1.119	0.040	/
			25	12	Left	673	0.041	-2.35	21.50	21.19	1.074	0.044	/
			1	0	Right	673	0.051	-0.70	24.50	24.01	1.119	0.057	/
			25	12	Right	673	0.053	-0.20	21.50	21.19	1.074	0.057	/
			1	0	Top	673	0.049	2.68	24.50	24.01	1.119	0.055	/
			25	12	Top	673	0.046	1.76	21.50	21.19	1.074	0.049	/

Note:

- The test separation of all above table is 5mm.
- Per KDB 447498 D04, 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
- Per KDB 248227- When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg. (The highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power was **0.369** W/Kg for Body)
- When the user enables the personal Wireless router functions for the handsets, actual operations include simultaneous transmission of both the Wi-Fi transmitting frequency and thus cannot be evaluated for SAR under actual use conditions. The "Portable Hotspot" feature on the handset was NOT activated, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal.



12.3 Repeated SAR

Band	Mode	Test Position	Freq.	Result 10g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR(W/Kg)	Meas. No.
WCDMA Band 2	RMC	Back	1852.4	1.818	2.77	24.00	22.94	2.321	-
		Back	1880	1.812	1.73	24.00	22.88	2.345	-
		Back	1907.6	2.158	-2.02	24.00	23.54	2.399	-

Band	Mode	Test Position	Freq.	Result 1g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR(W/Kg)	Meas. No.
WCDMA Band 2	RMC	Back	1852.4	0.900	-3.40	24.00	22.94	1.149	-
		Back	1880	0.895	1.58	24.00	22.88	1.158	-
		Back	1907.6	1.099	-2.65	24.00	23.54	1.222	-

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)	Scaled SAR(W/Kg)	Meas. No.
LTE Band 25&2	20M	QPSK	1	99	Back	1860	0.988	-0.16	25.00	24.64	1.073	-
			1	99	Back	1882.5	1.116	-1.29	25.00	24.86	1.153	-
			1	99	Back	1905	1.039	-2.37	25.00	24.52	1.160	-
			50	24	Back	1860	0.983	2.80	24.50	24.14	1.068	-
			50	24	Back	1882.5	1.014	1.25	24.50	23.88	1.170	-
			50	24	Back	1905	0.844	2.10	24.50	23.20	1.139	-
			100	0	Back	1860	0.865	-0.89	24.50	24.03	0.964	-
			100	0	Back	1882.5	0.994	-2.40	24.50	24.00	1.115	-
			100	0	Back	1905	0.890	-1.31	24.50	23.50	1.120	-
			1	99	Back	1860	0.825	0.91	25.00	24.64	0.896	-
			1	99	Back	1882.5	0.849	2.58	25.00	24.86	0.877	-
			1	99	Back	1905	0.906	-3.63	25.00	24.52	1.012	-
			50	24	Back	1860	0.807	3.13	24.50	24.14	0.877	-
			50	24	Back	1882.5	0.861	0.79	24.50	23.88	0.993	-
			50	24	Back	1905	0.804	2.64	24.50	23.20	1.085	-
			100	0	Back	1860	0.807	-0.60	24.50	24.03	0.899	-
			100	0	Back	1882.5	0.849	-1.27	24.50	24.00	0.953	-
			100	0	Back	1905	0.888	-1.32	24.50	23.50	1.118	-

**12.4 Repeated SAR measurement**

Band	Mode	Test Position	Freq.	Original Measured SAR 10g(W/kg)	1 st Repeated SAR 10g	Ratio	Original Measured SAR 10g(W/kg)	2nd Repeated SAR 10g	Ratio
WCDMA Band 2	RMC	Back	1852.4	1.902	1.818	1.046	-	-	-
		Back	1880	1.869	1.812	1.031	-	-	-
		Back	1907.6	2.243	2.158	1.039	-	-	-

Band	Mode	Test Position	Freq.	Original Measured SAR 1g(W/kg)	1 st Repeated SAR 1g	Ratio	Original Measured SAR 1g(W/kg)	2nd Repeated SAR 1g	Ratio
WCDMA Band 2	RMC	Back	1852.4	0.910	0.900	1.011	-	-	-
		Back	1880	0.903	0.895	1.009	-	-	-
		Back	1907.6	1.105	1.099	1.005	-	-	-



Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Original Measured SAR 1g(W/kg)	1 st Repeated SAR 1g	Ratio	Original Measured	2nd Repeated SAR 1g	Ratio
LTE Band 25&2	20M	QPSK	1	99	Back	1860	1.022	0.988	1.034	-	-	-
			1	99	Back	1882.5	1.166	1.116	1.045	-	-	-
			1	99	Back	1905	1.053	1.039	1.013	-	-	-
			50	24	Back	1860	0.985	0.983	1.002	-	-	-
			50	24	Back	1882.5	1.025	1.014	1.011	-	-	-
			50	24	Back	1905	0.851	0.844	1.008	-	-	-
			100	0	Back	1860	0.902	0.865	1.043	-	-	-
			100	0	Back	1882.5	0.996	0.994	1.002	-	-	-
			100	0	Back	1905	0.900	0.890	1.011	-	-	-
			1	99	Top	1860	0.836	0.825	1.013	-	-	-
			1	99	Top	1882.5	0.858	0.849	1.011	-	-	-
			1	99	Top	1905	0.921	0.906	1.017	-	-	-
			50	24	Top	1860	0.841	0.807	1.042	-	-	-
			50	24	Top	1882.5	0.902	0.861	1.048	-	-	-
			50	24	Top	1905	0.825	0.804	1.026	-	-	-
			100	0	Top	1860	0.811	0.807	1.005	-	-	-
			100	0	Top	1882.5	0.863	0.849	1.016	-	-	-
			100	0	Top	1905	0.902	0.888	1.016	-	-	-

Note:

1. Per KDB 865664 D01, for each frequency band, repeated SAR measurement is required only when the measured SAR is $\geq 0.8W/Kg$.
2. Per KDB 865664 D01, if the ratio of largest to smallest SAR for the original and first repeated measurement is ≤ 1.2 and the measured SAR $< 1.45W/Kg$, only one repeated measurement is required.
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 $\geq 1.45W/Kg$.
4. The ratio is the difference in percentage between original and repeated measured SAR.

**12.5 Simultaneous Multi-band Transmission Evaluation**

Application Simultaneous Transmission information:

Position	Simultaneous State
Limbs	1. WCDMA + 2.4GHz WLAN
	2. LTE + 2.4GHz WLAN
Body	1. WCDMA + 2.4GHz WLAN
	2. LTE + 2.4GHz WLAN

NOTE:

1. For simultaneous transmission at limbs and body exposure position, 2 transmitters simultaneous transmission was the worst state.
2. If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.

Simultaneous Mode	Position	Mode	Max. 1&10g SAR	1&10g Sum SAR
			(W/kg)	(W/kg)
WCDMA + 2.4G WLAN	Limbs	WCDMA	2.494	2.559
		2.4G WLAN	0.065	
	Body	WCDMA	1.228	1.249
		2.4G WLAN	0.021	
LTE + 2.4G WLAN	Limbs	LTE	1.189	1.254
		2.4G WLAN	0.065	
	Body	LTE	1.204	1.225
		2.4G WLAN	0.021	

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna.

When the sum of SAR 1g of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR-1g 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR 1g is greater than the SAR limit (SAR-1g 1.6 W/kg), SAR test exclusion is determined by the SPLSR.



13. Equipment List

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
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
2450MHzDipole	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
Waveguide	MVG	SWG5500	SN 13/14 WGA32	2023.07.04	2026.07.03
E-Field Probe	MVG	SSE2	SN 08/21 EPOG352	2024.09.18	2025.09.17
Dielectric Probe Kit	MVG	SCLMP	SN 32/14 OCPG67	2024.09.18	2025.09.17
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	2025-02-22	2026-02-21
Directional coupler	Xi'an Xingbo	XBOH-OA08-20dB	211123-4-3	2025-02-22	2026-02-21
Network Analyzer	Agilent	E5071C	MY46520378	2024-09-25	2025-09-26
Multi Meter	Keithley	Multi Meter 2000	4050073	2024-09-25	2025-09-26
Signal Generator	Agilent	N5182A	MY50140530	2024-09-25	2025-09-26
Wireless Communication Test Set	Agilent	8960-E5515C	MY48360751	2025-02-22	2026-02-21
Wireless Communication Test Set	R&S	CMW500	156324	2024-09-25	2025-09-26
Power Amplifier	DESAY	ZHL-42W	9638	2024-09-25	2025-09-26
Power Meter	R&S	NRP	100510	2024-09-25	2025-09-26
Power Sensor	R&S	NRP-Z11	101919	2024-09-25	2025-09-26
Power Sensor	Keysight	U2021XA	MY56280002	2024-09-25	2025-09-26
Temperature hygrometer	SuWei	SW-108	N/A	2024.10.15	2025.10.14
Thermograph	Elitech	RC-4	S/N EF7176501537	2024.10.15	2025.10.14



Appendix A. System Validation Plots

System Performance Check Data (750MHz)

Type: Phone measurement (Complete)

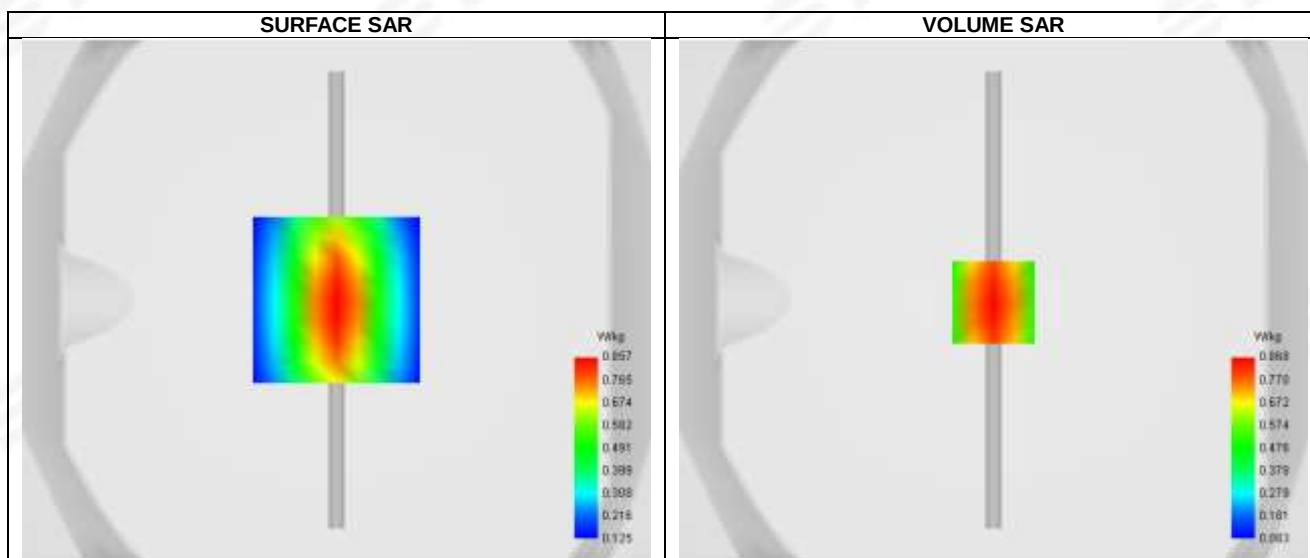
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-05-30

Experimental conditions.

Device Position	Validation plane
Band	750 MHz
Channels	-
Signal	CW
Frequency (MHz)	750
Relative permittivity	42.50
Conductivity (S/m)	0.86
Probe	SN 08/21 EPGO352
ConvF	1.56
Crest factor:	1:1

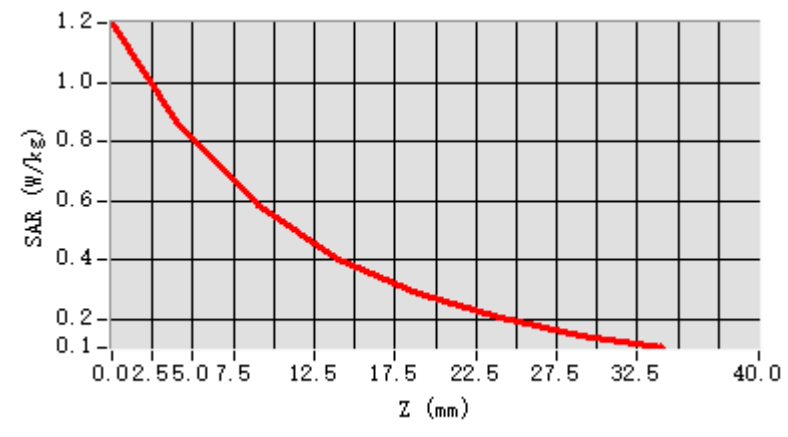


Maximum location: X=0.00, Y=-1.00 ; SAR Peak: 1.20 W/kg

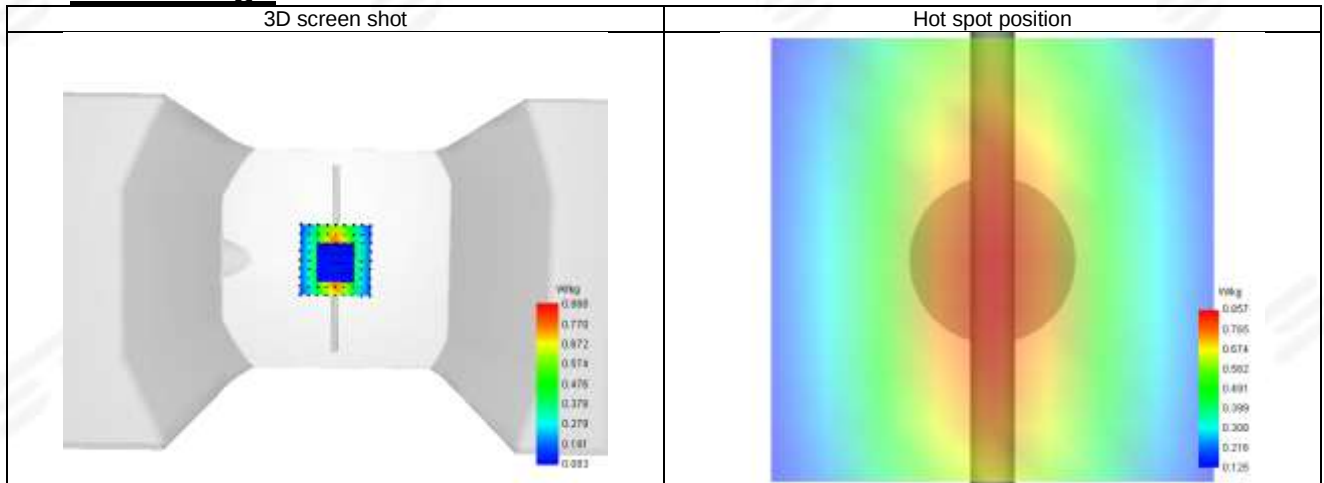
D. SAR 1g & 10g

SAR 10g (W/Kg)	0.563
SAR 1g (W/Kg)	0.835
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	54.221014

E. Z Axis Scan



F. 3D Image



**System Performance Check Data (835MHz)**

Type: Phone measurement (Complete)

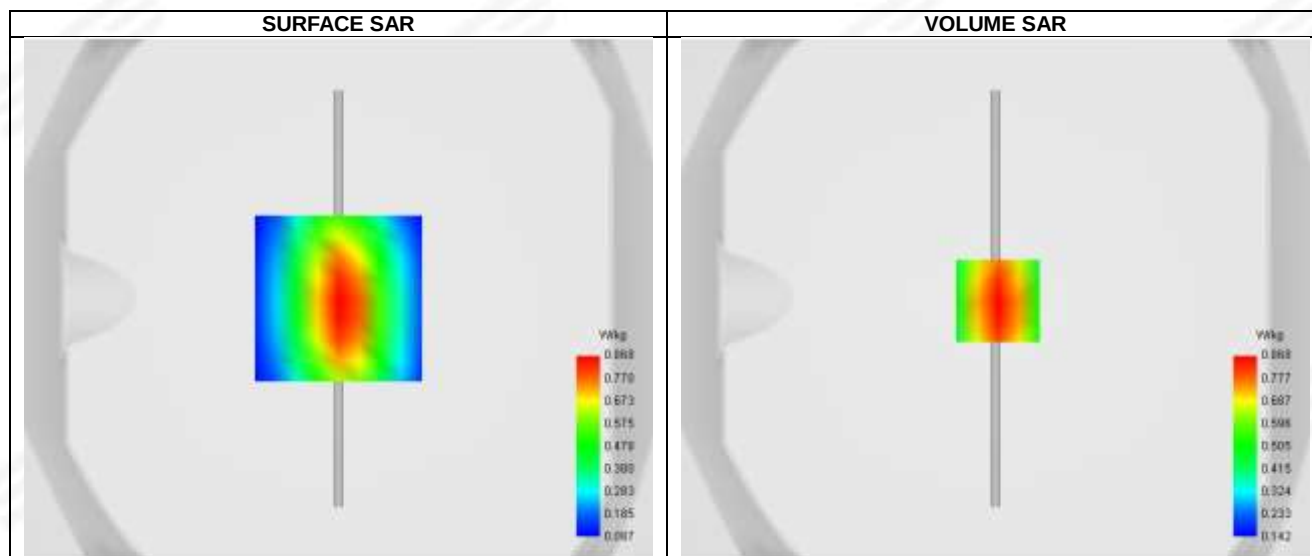
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-05-28

Experimental conditions.

Device Position	Validation plane
Band	835 MHz
Channels	-
Signal	CW
Frequency (MHz)	835
Relative permittivity	41.09
Conductivity (S/m)	0.94
Probe	SN 08/21 EPGO352
ConvF	1.44
Crest factor:	1:1

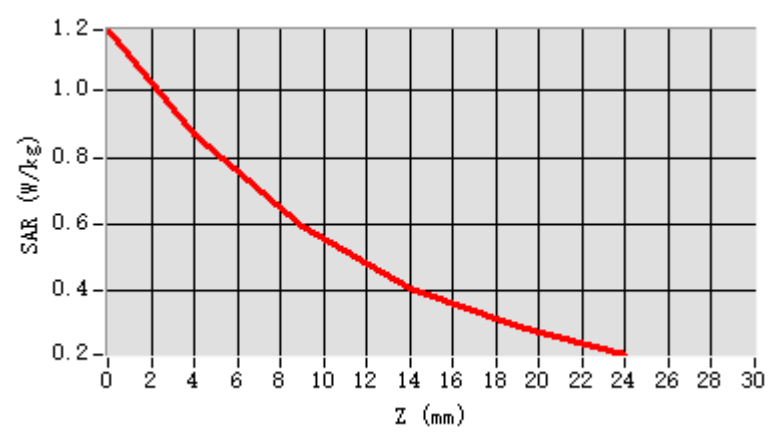


Maximum location: X=1.00, Y=-1.00 ; SAR Peak: 1.19 W/kg

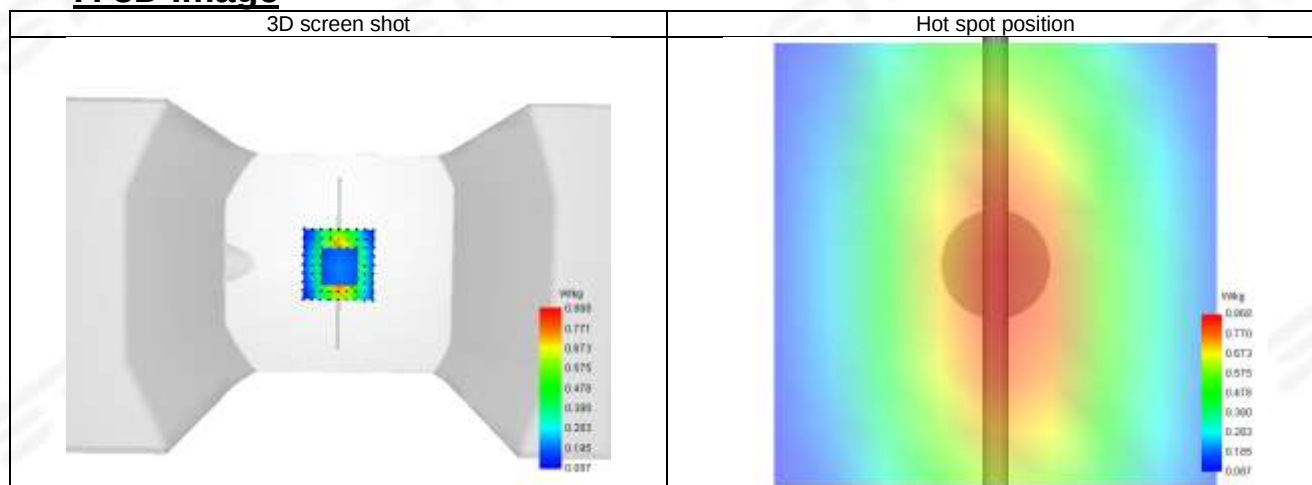
D. SAR 1g & 10g

SAR 10g (W/Kg)	0.620
SAR 1g (W/Kg)	0.953
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	55.952100

E. Z Axis Scan



F. 3D Image



**System Performance Check Data (1800MHz)**

Type: Phone measurement (Complete)

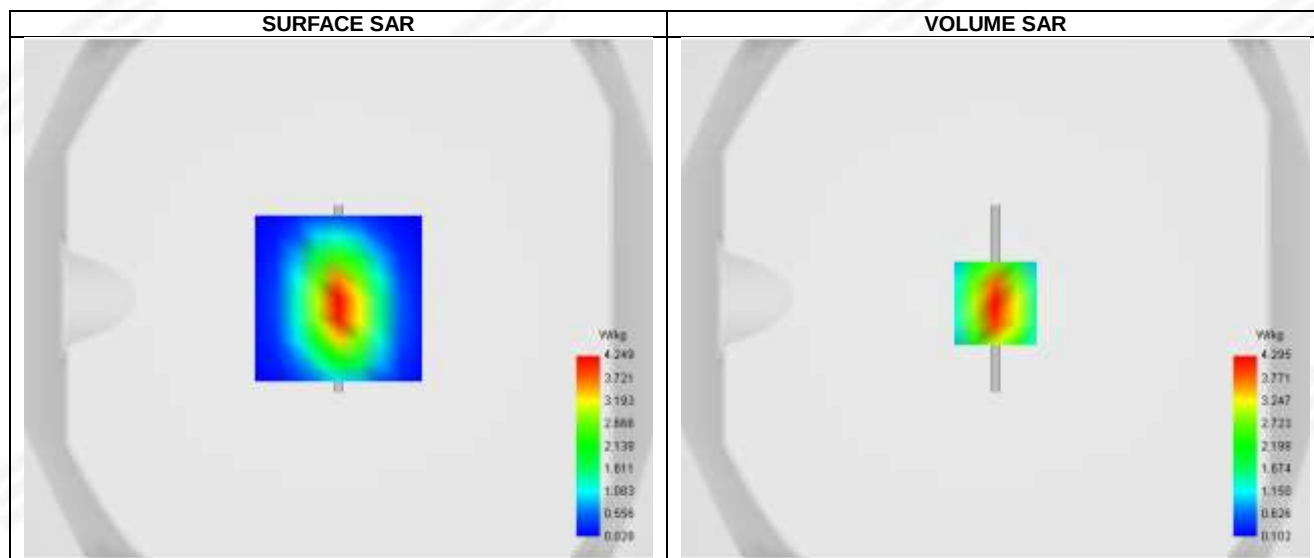
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-05-29

Experimental conditions.

Device Position	Validation plane
Band	1800 MHz
Channels	-
Signal	CW
Frequency (MHz)	1800
Relative permittivity	40.77
Conductivity (S/m)	1.42
Probe	SN 08/21 EPGO352
ConvF	1.58
Crest factor:	1:1

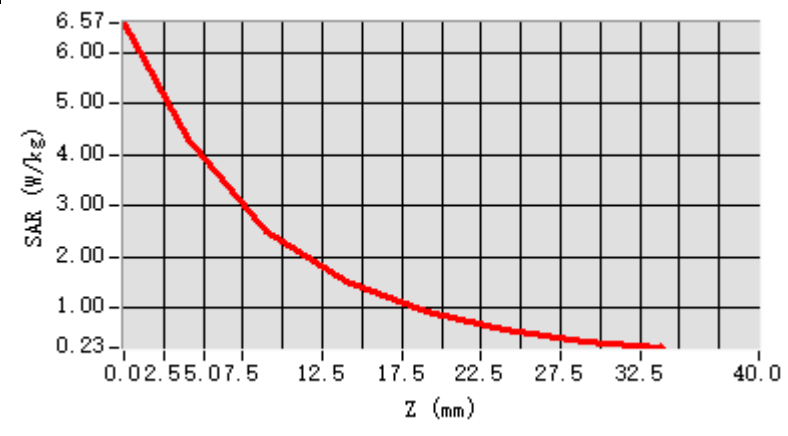


Maximum location: X=0.00, Y=-2.00 ; SAR Peak: 6.54 W/kg

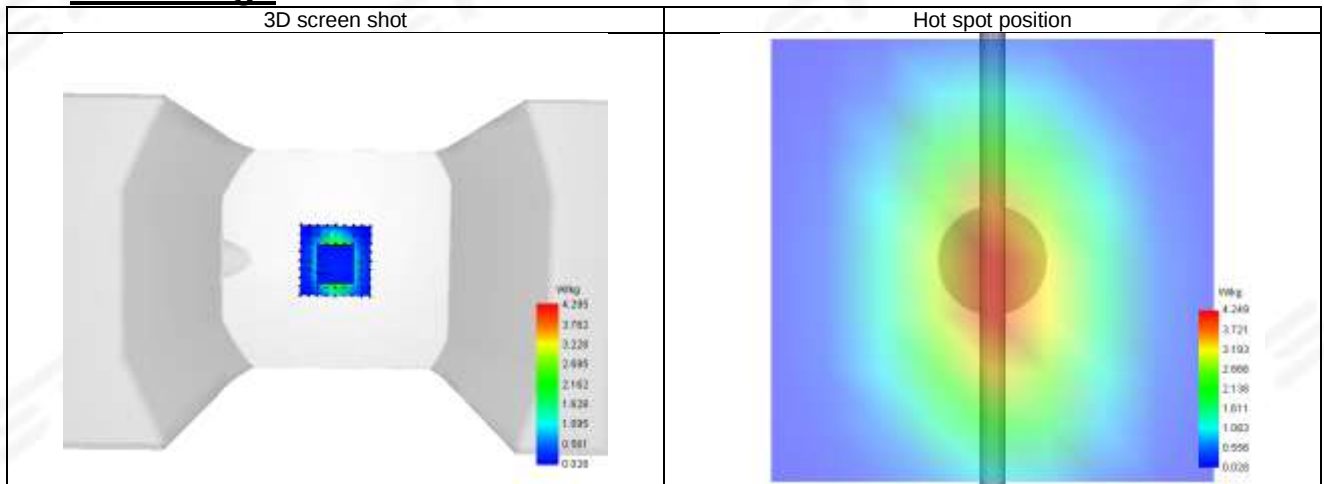
D. SAR 1g & 10g

SAR 10g (W/Kg)	2.134
SAR 1g (W/Kg)	4.065
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	58.154868

E. Z Axis Scan



F. 3D Image



**System Performance Check Data (1900MHz)**

Type: Phone measurement (Complete)

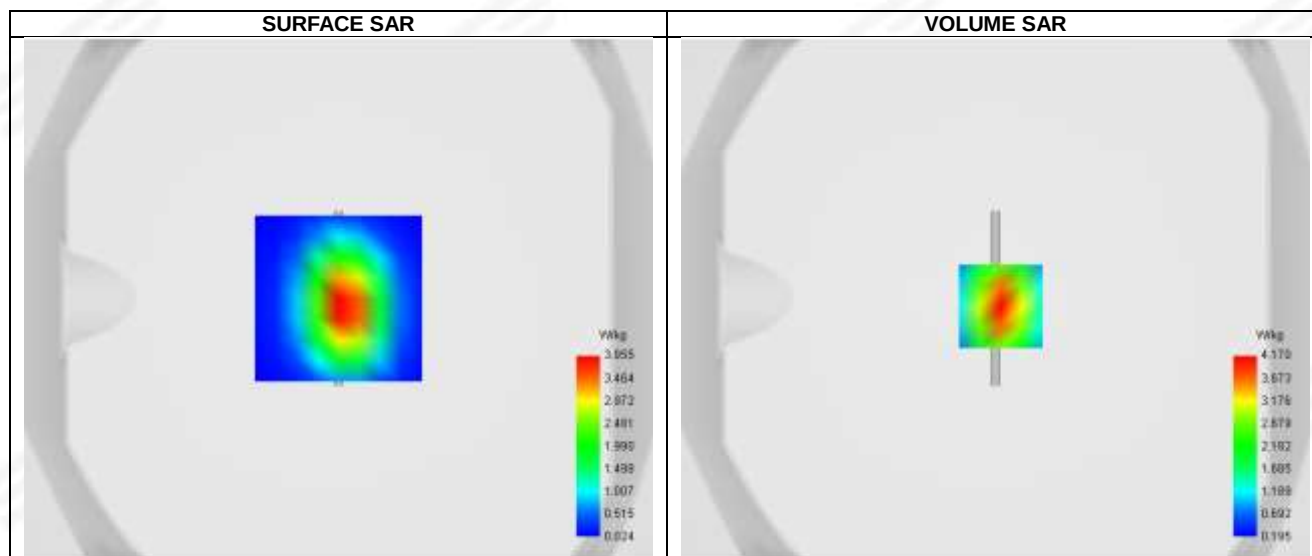
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-05-29

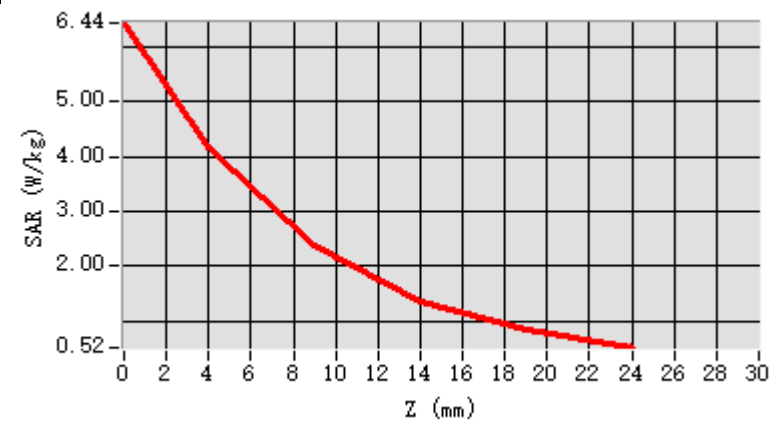
Experimental conditions.

Device Position	Validation plane
Band	1900 MHz
Channels	-
Signal	CW
Frequency (MHz)	1900
Relative permittivity	39.91
Conductivity (S/m)	1.41
Probe	SN 08/21 EPGO352
ConvF	1.72
Crest factor:	1:1

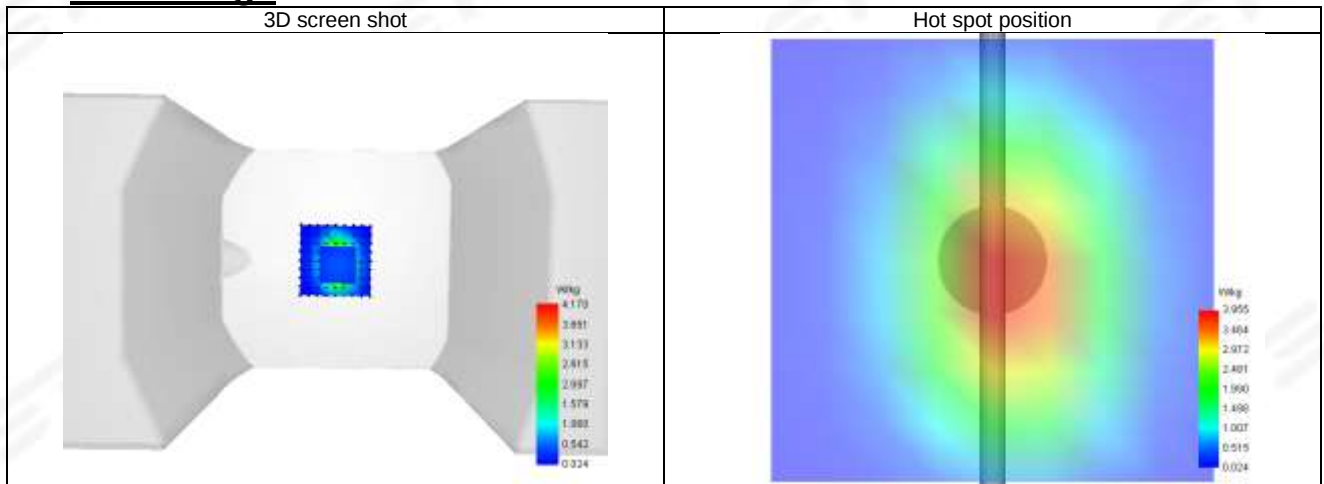
**D. SAR 1g & 10g**

SAR 10g (W/Kg)	1.961
SAR 1g (W/Kg)	3.691
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	59.365210

E. Z Axis Scan



F. 3D Image



**System Performance Check Data (2450MHz)**

Type: Phone measurement (Complete)

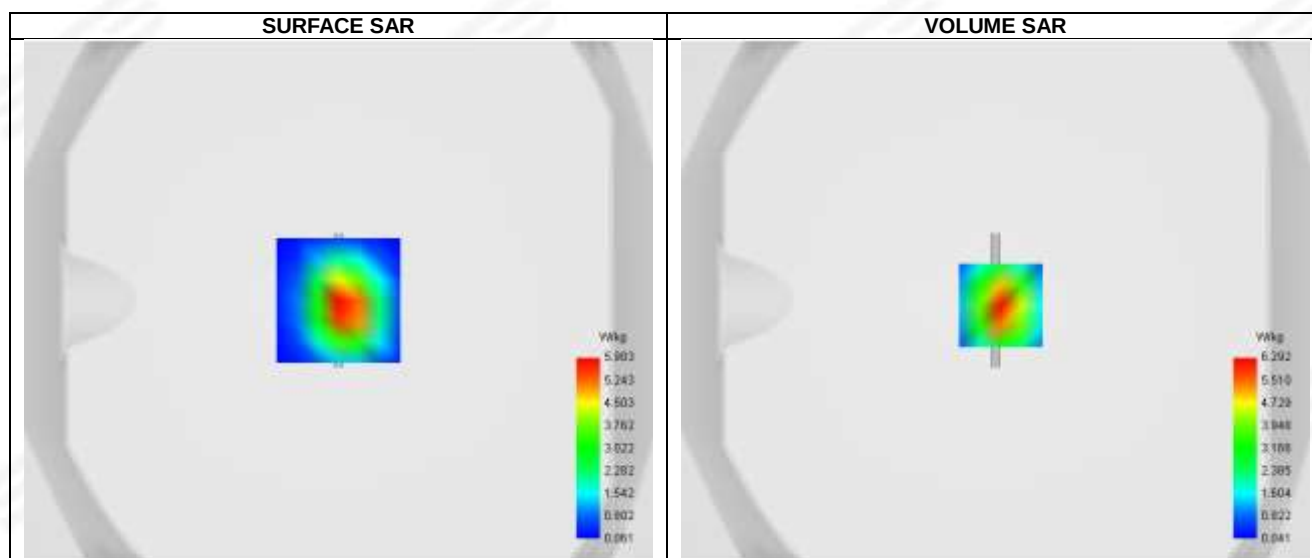
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-06-06

Experimental conditions.

Device Position	Validation plane
Band	2450 MHz
Channels	-
Signal	CW
Frequency (MHz)	2450
Relative permittivity	39.96
Conductivity (S/m)	1.79
Probe	SN 08/21 EPGO352
ConvF	1.80
Crest factor:	1:1



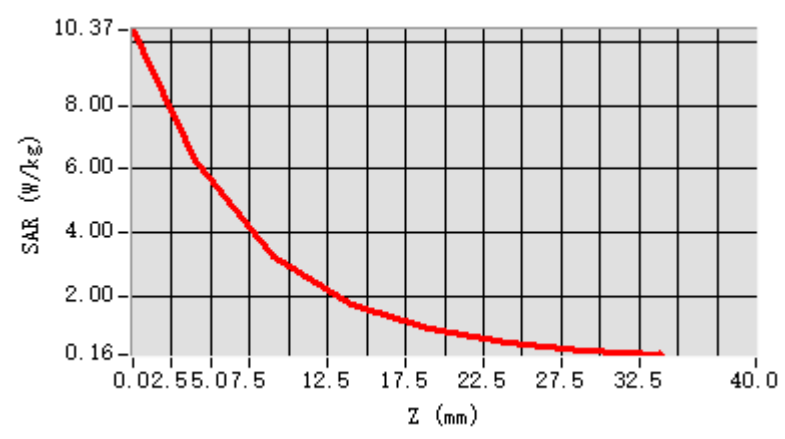
Maximum location: X=2.00, Y=-2.00 ; SAR Peak: 10.29 W/kg

D. SAR 1g & 10g

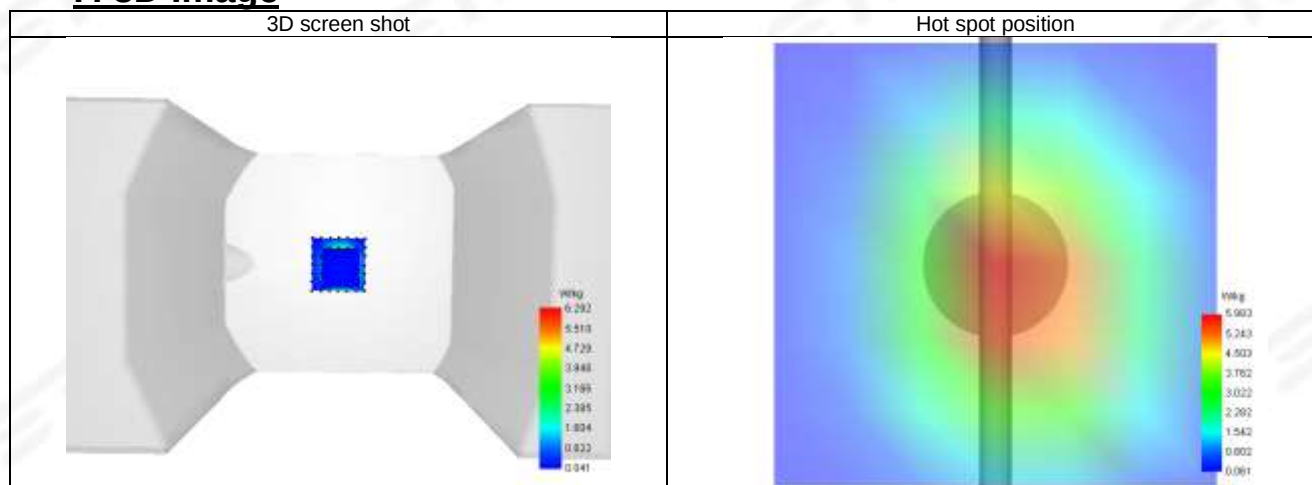
SAR 10g (W/Kg)	2.415
SAR 1g (W/Kg)	5.236
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	51.545439



E. Z Axis Scan



F. 3D Image



**System Performance Check Data (2600MHz)**

Type: Phone measurement (Complete)

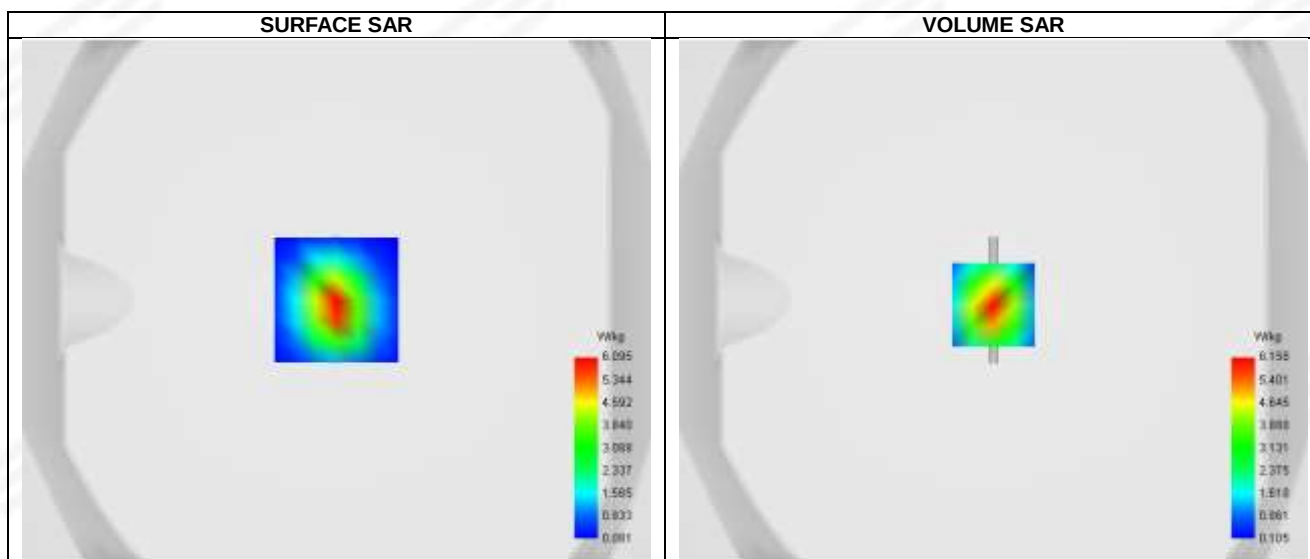
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-06-06

Experimental conditions.

Device Position	Validation plane
Band	2600 MHz
Channels	-
Signal	CW
Frequency (MHz)	2450
Relative permittivity	39.98
Conductivity (S/m)	2.03
Probe	SN 08/21 EPGO352
ConvF	1.74
Crest factor:	1:1

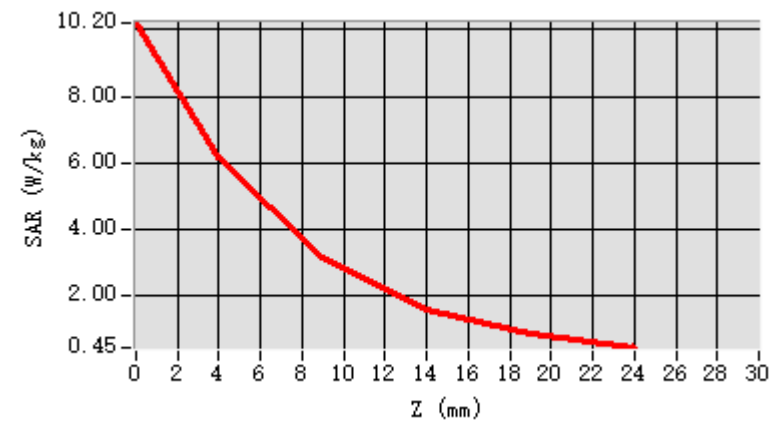


Maximum location: X=0.00, Y=-2.00 ; SAR Peak: 10.20 W/kg

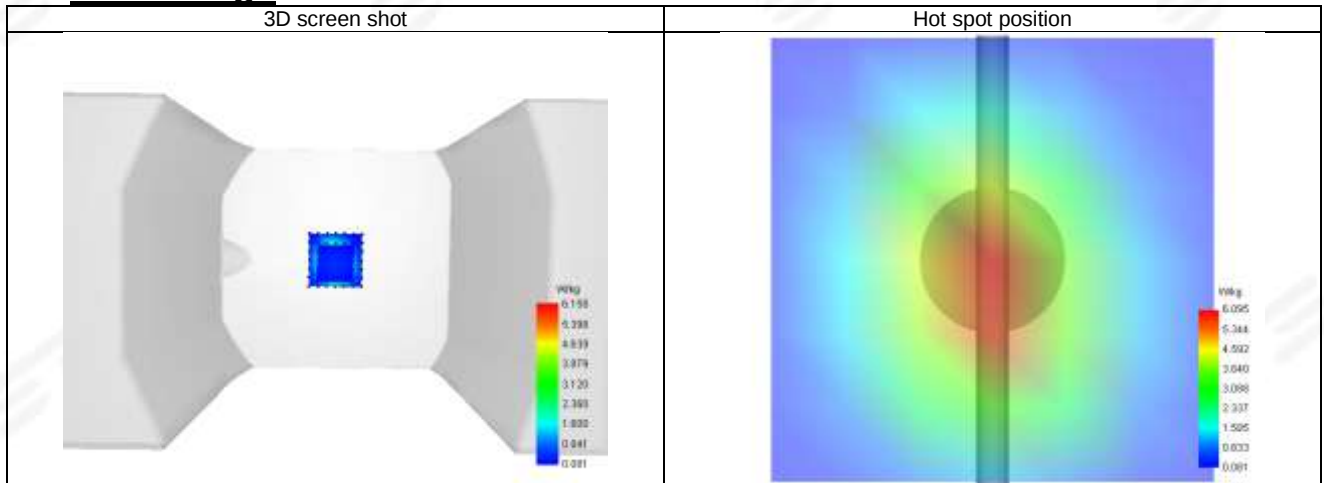
D. SAR 1g & 10g

SAR 10g (W/Kg)	2.324
SAR 1g (W/Kg)	5.289
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	51.365521

E. Z Axis Scan



F. 3D Image

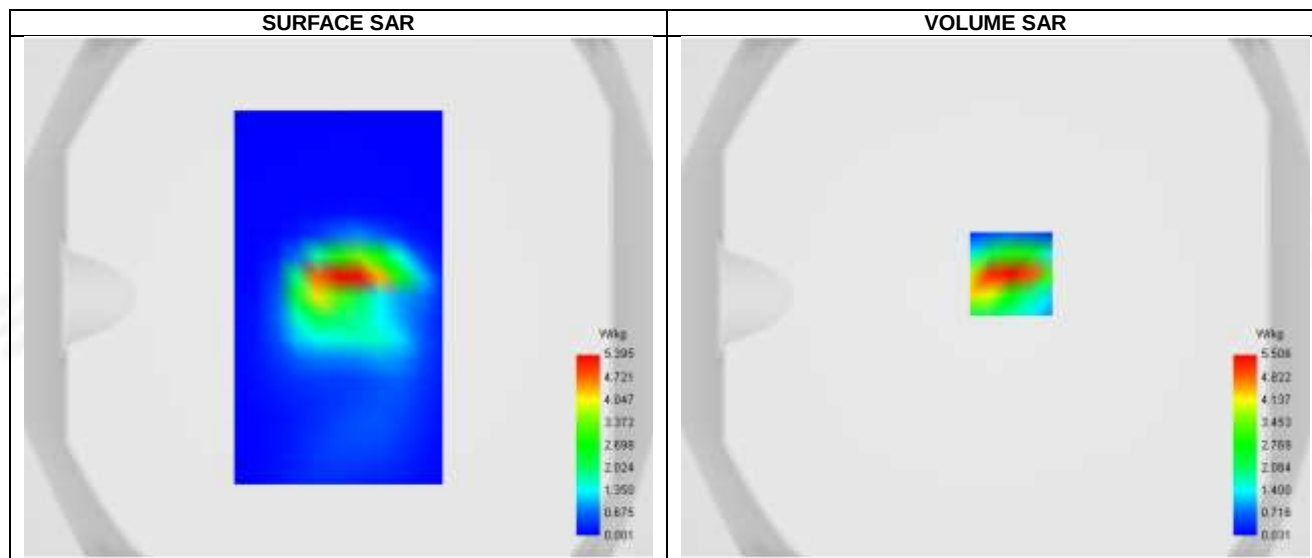




Appendix B. SAR Test Plots

Plot 1: DUT: 4G/LTE MiFi Hotspot; EUT Model: MH07

Test Date	2025-03-11
ConvF	1.72
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Limbs
Device Position	Back
Band	WCDMA I
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1907.6
Relative permittivity (real part)	40.83
Conductivity (S/m)	1.42



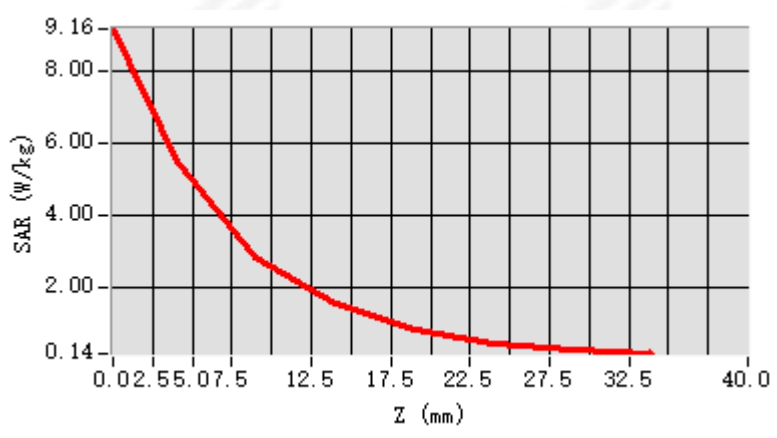
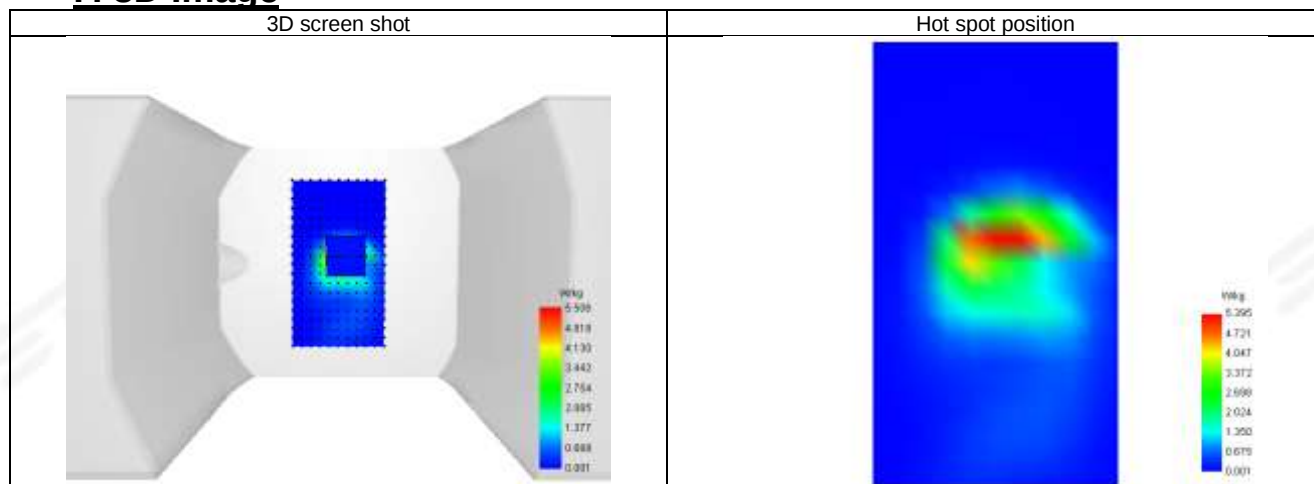
Maximum location: X=6.00, Y=9.00 ; SAR Peak: 9.10 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	2.243
SAR 1g (W/Kg)	4.938
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	50.899619

**E. Z Axis Scan**

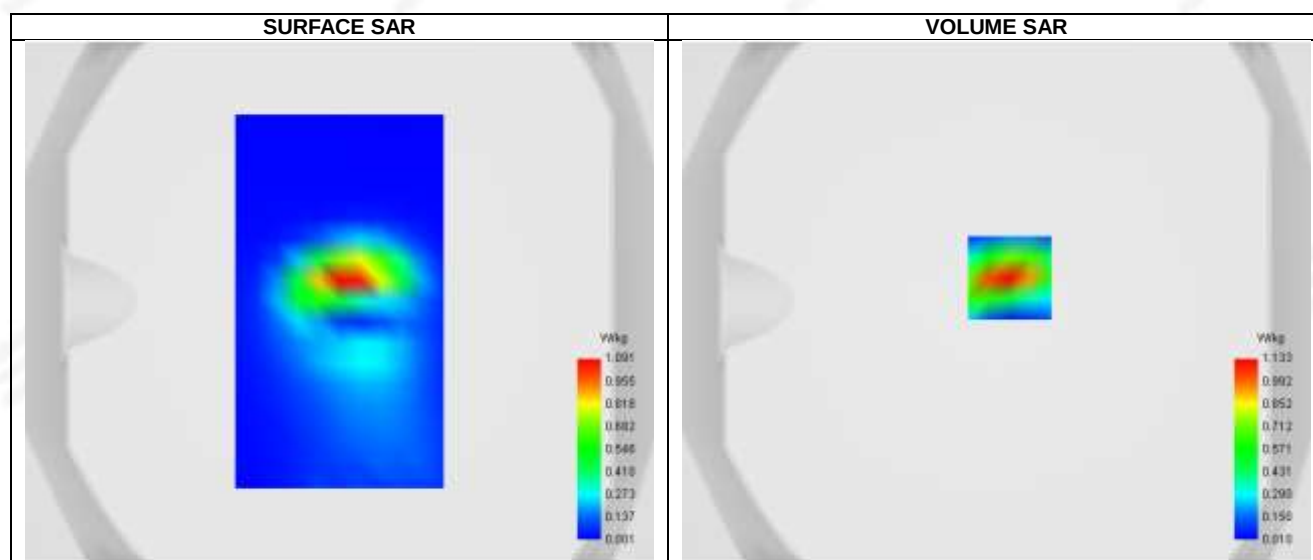
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	9.157	5.506	2.803	1.543	0.823	0.439	0.234

**F. 3D Image**



Plot 2: DUT: 4G/LTE MiFi Hotspot; EUT Model: MH07

Test Date	2025-03-11
ConvF	1.72
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Body
Device Position	Back
Band	WCDMA I
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1907.6
Relative permittivity (real part)	40.83
Conductivity (S/m)	1.42



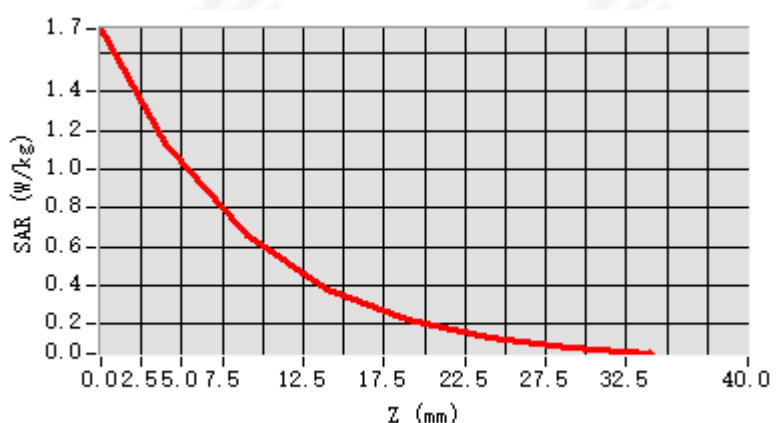
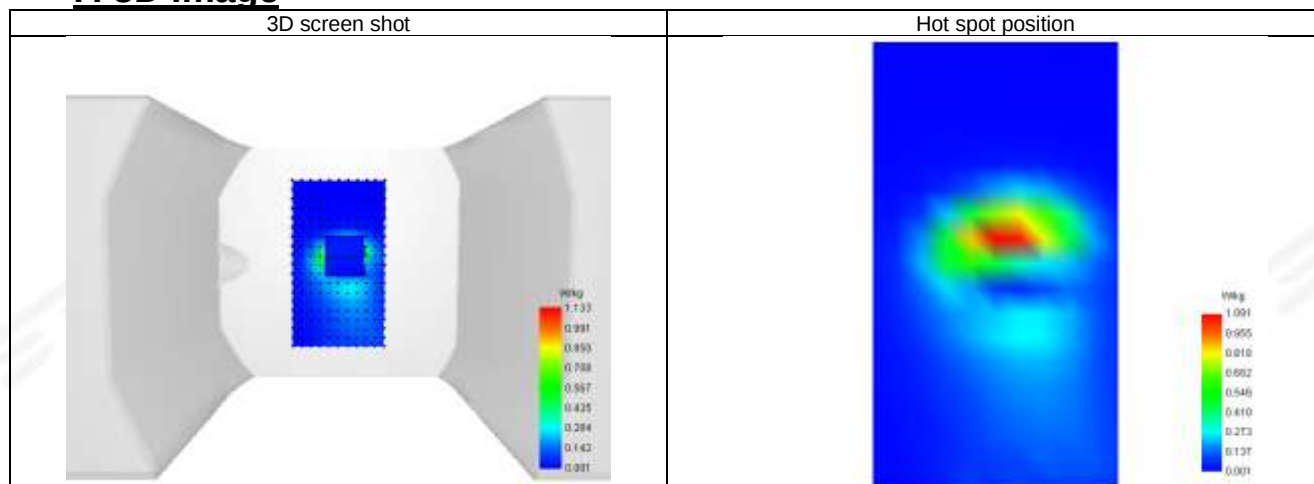
Maximum location: X=5.00, Y=9.00 ; SAR Peak: 1.72 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.480
SAR 1g (W/Kg)	1.105
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	57.859316

**E. Z Axis Scan**

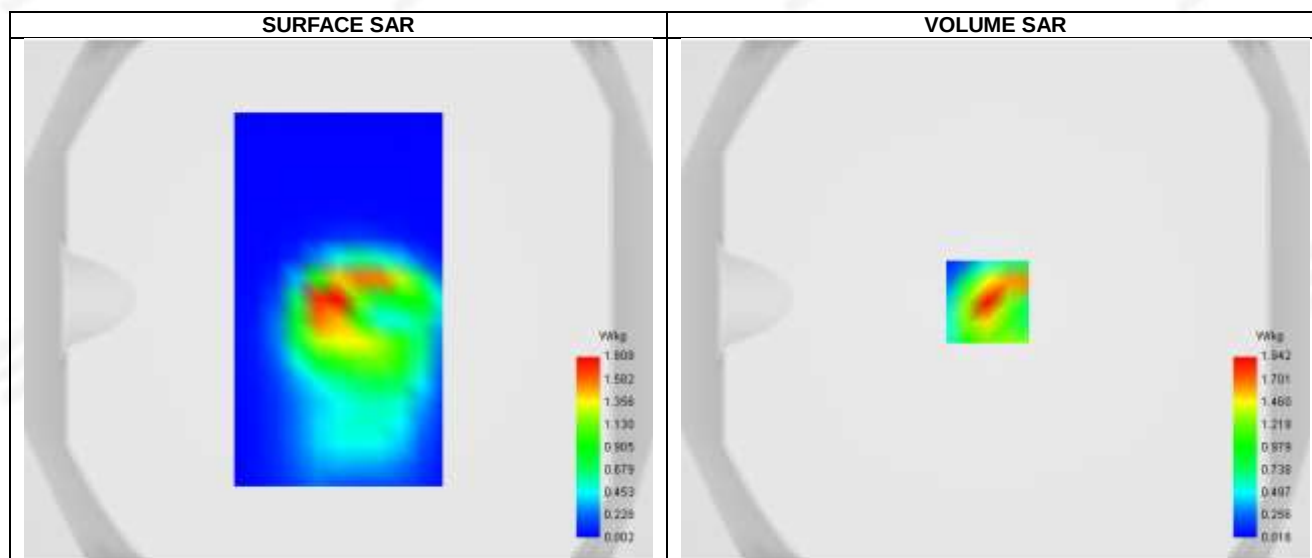
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.725	1.133	0.655	0.381	0.223	0.130	0.076

**F. 3D Image**



Plot 3: DUT: 4G/LTE MiFi Hotspot; EUT Model: MH07

Test Date	2025-05-29
ConvF	1.58
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Limbs
Device Position	Back
Band	WCDMA 4
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1740
Relative permittivity (real part)	40.88
Conductivity (S/m)	1.38



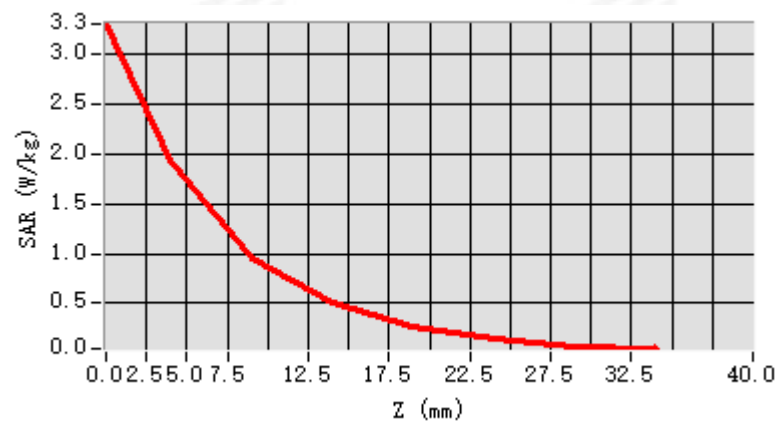
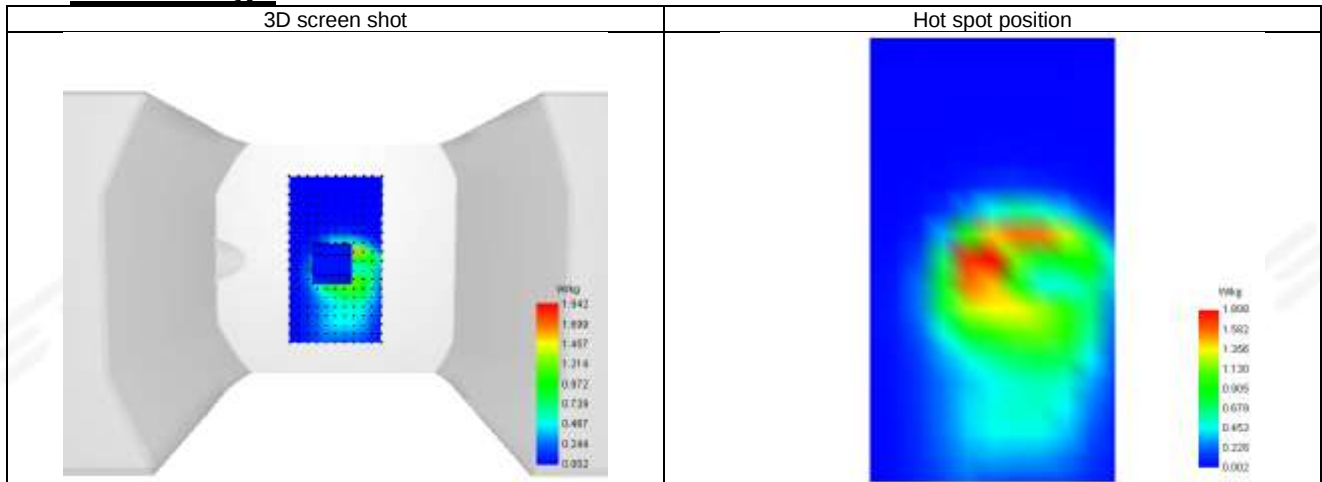
Maximum location: X=-3.00, Y=-1.00 ; SAR Peak: 3.27 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.810
SAR 1g (W/Kg)	1.757
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	48.886535

**E. Z Axis Scan**

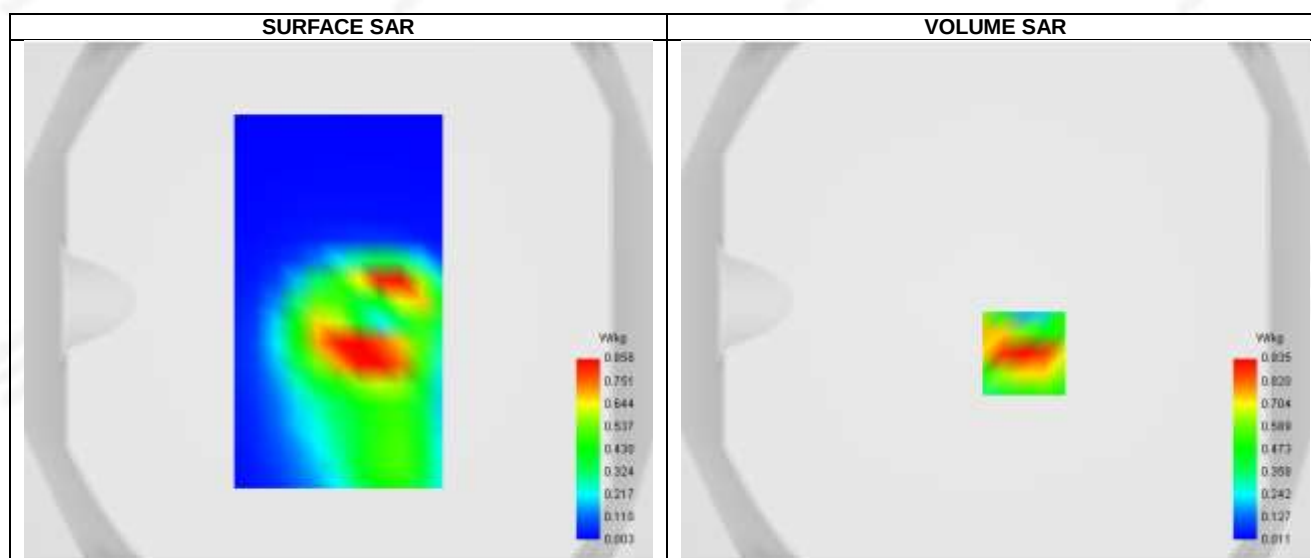
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	3.311	1.942	0.949	0.514	0.267	0.139	0.072

**F. 3D Image**



Plot 4: DUT: 4G/LTE MiFi Hotspot; EUT Model: MH07

Test Date	2025-05-29
ConvF	1.58
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Body
Device Position	Back
Band	WCDMA 4
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1740
Relative permittivity (real part)	40.88
Conductivity (S/m)	1.38



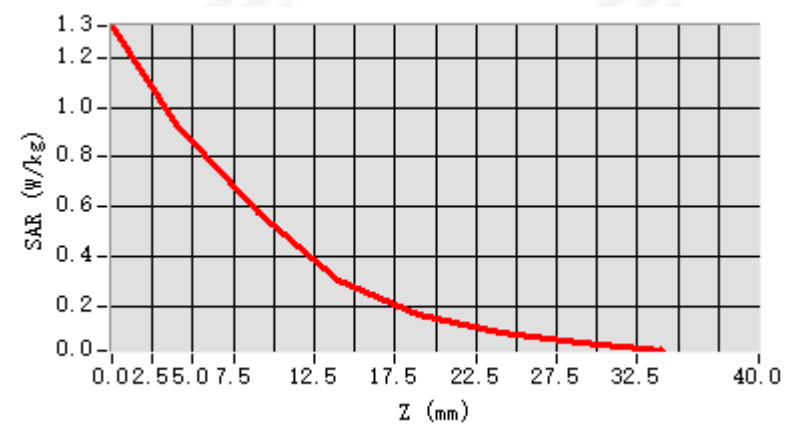
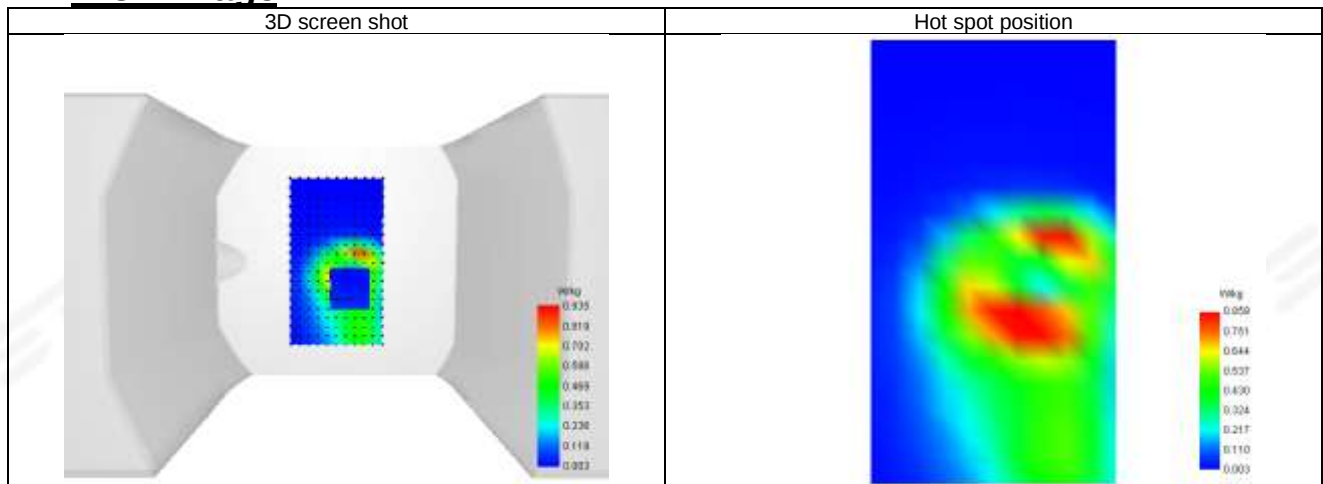
Maximum location: X=11.00, Y=-20.00 ; SAR Peak: 1.35 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.469
SAR 1g (W/Kg)	0.845
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	61.922100

**E. Z Axis Scan**

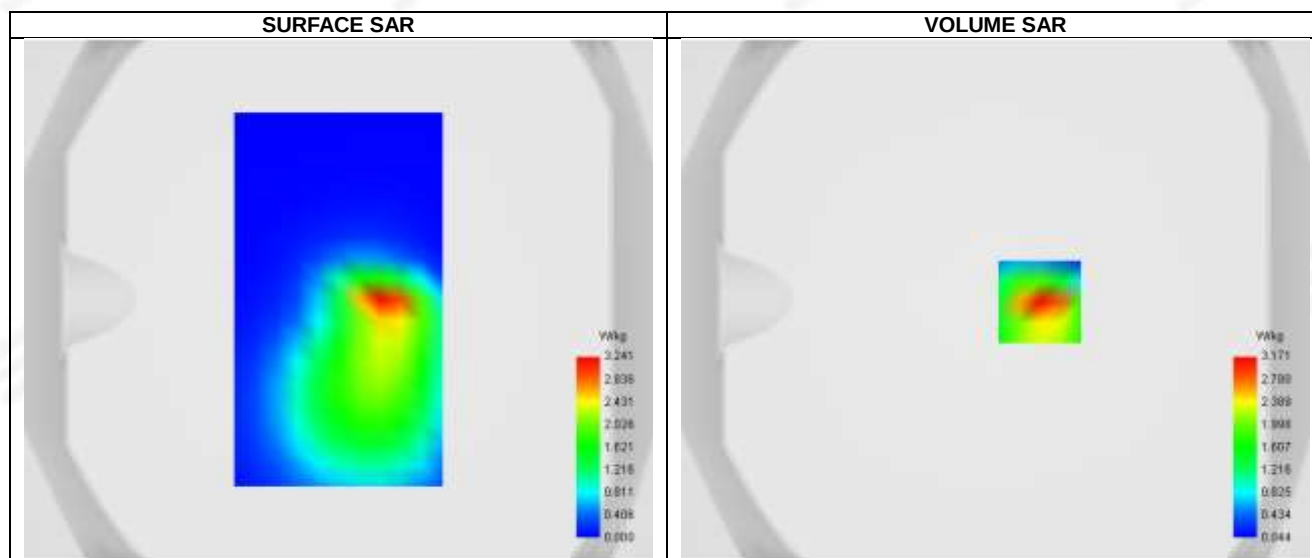
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.325	0.935	0.575	0.305	0.172	0.097	0.054

**F. 3D Image**



Plot 5: DUT: 4G/LTE MiFi Hotspot; EUT Model: MH07

Test Date	2025-05-28
ConvF	1.48
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Limbs
Device Position	Back
Band	WCDMA 5
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	846.6
Relative permittivity (real part)	41.79
Conductivity (S/m)	0.88



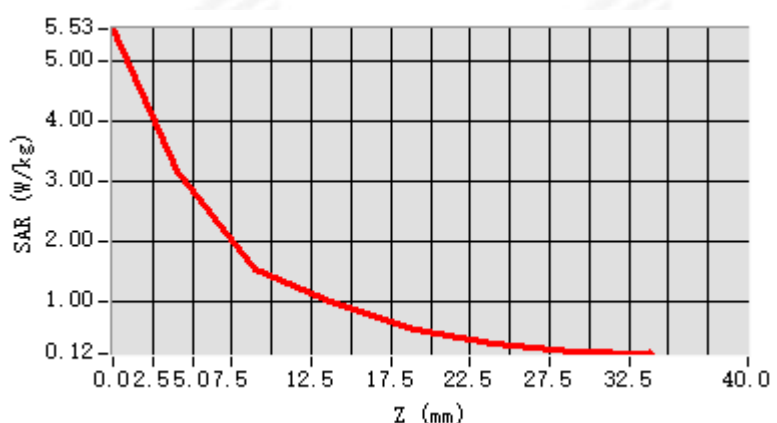
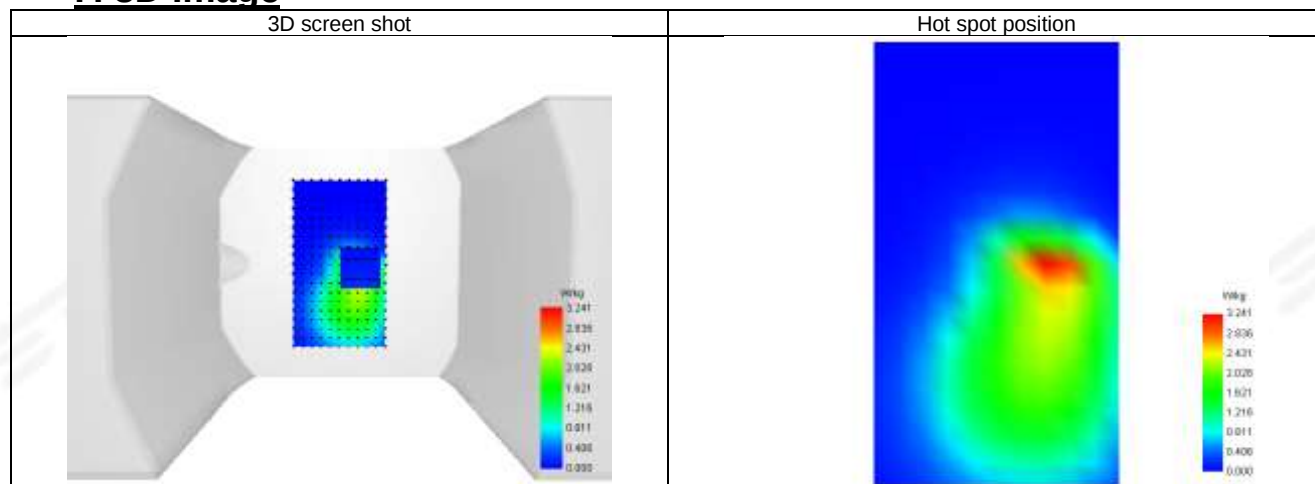
Maximum location: X=17.00, Y=-1.00 ; SAR Peak: 5.51 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	1.409
SAR 1g (W/Kg)	2.929
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	49.342865

**E. Z Axis Scan**

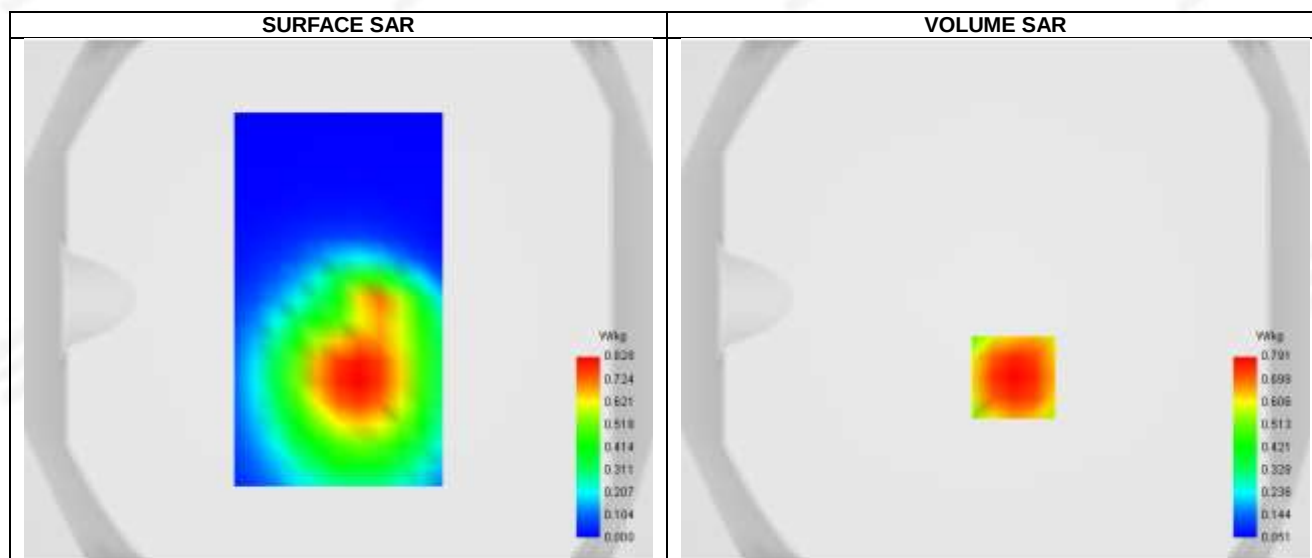
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	5.533	3.171	1.531	0.949	0.530	0.296	0.165

**F. 3D Image**



Plot 6: DUT: 4G/LTE MiFi Hotspot; EUT Model: MH07

Test Date	2025-05-28
ConvF	1.48
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Body
Device Position	Back
Band	WCDMA 5
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	846.6
Relative permittivity (real part)	41.79
Conductivity (S/m)	0.88



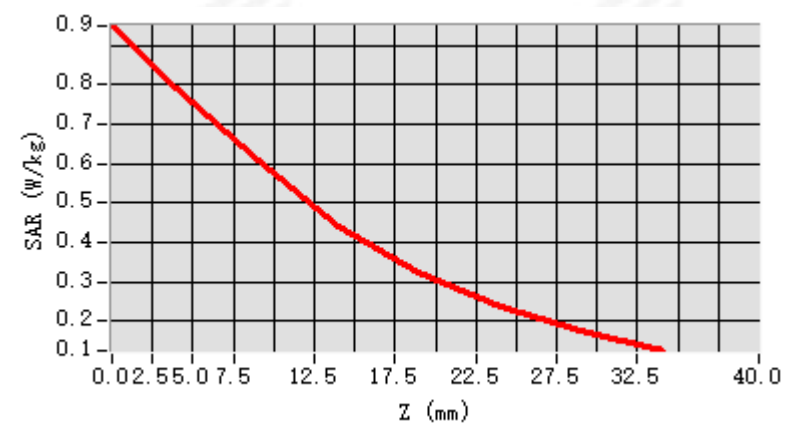
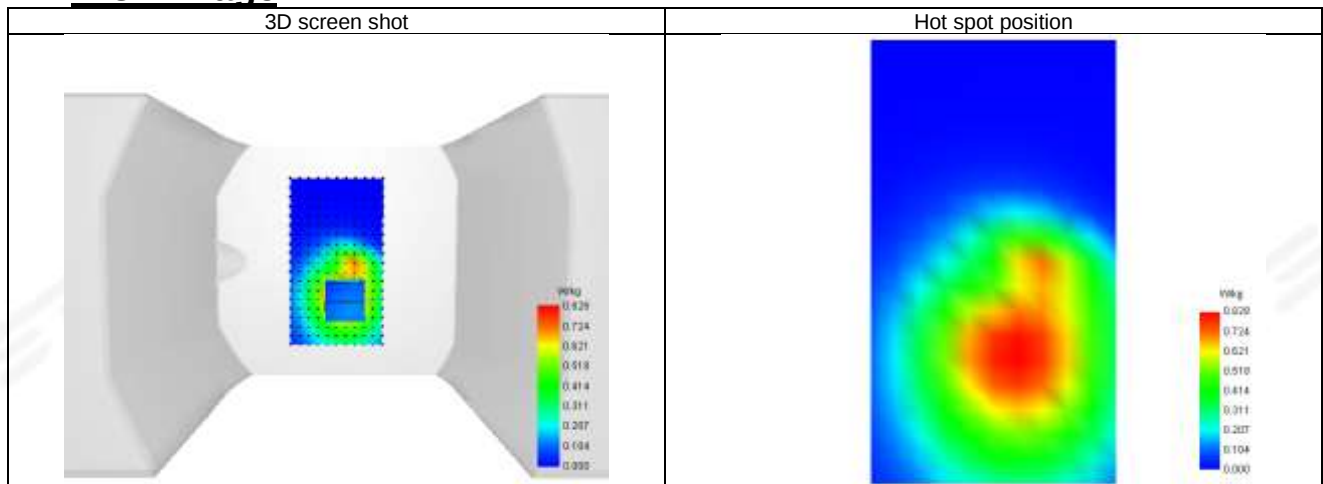
Maximum location: X=7.00, Y=-30.00 ; SAR Peak: 0.98 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.536
SAR 1g (W/Kg)	0.755
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	75.622010

**E. Z Axis Scan**

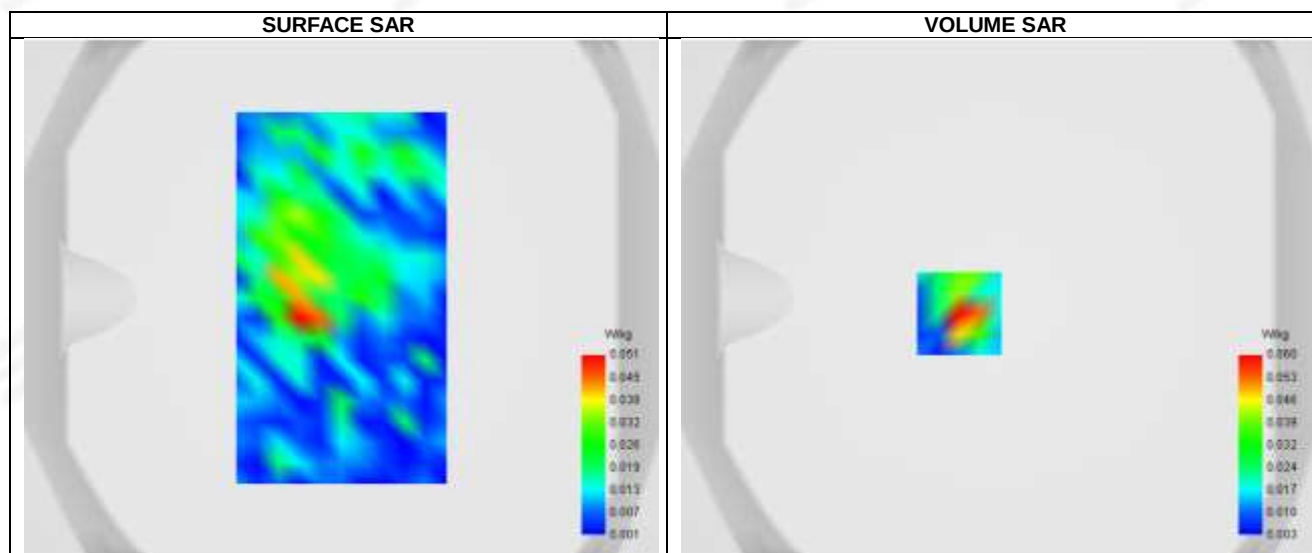
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.949	0.791	0.606	0.443	0.323	0.238	0.176

**F. 3D Image**



Plot 7: DUT: 4G/LTE MiFi Hotspot; EUT Model: MH07

Test Date	2025-06-06
ConvF	1.80
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Limbs
Device Position	Back
Band	2.4GHz WLAN
Signal	802.11b (Crest factor: 1.0)
Frequency (MHz)	2412
Relative permittivity (real part)	40.31
Conductivity (S/m)	1.83



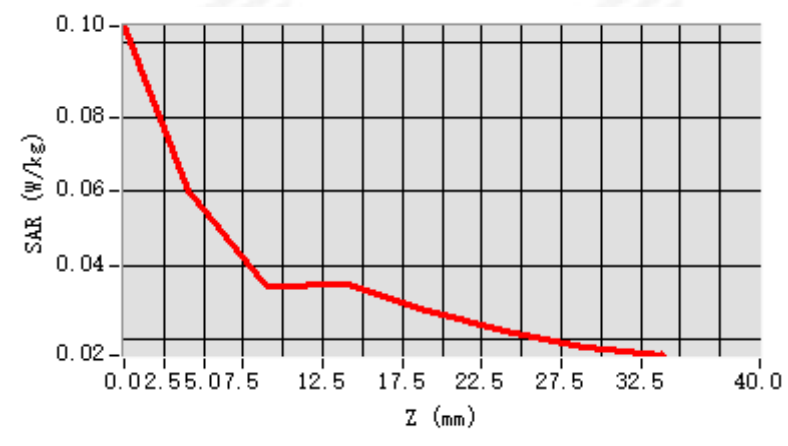
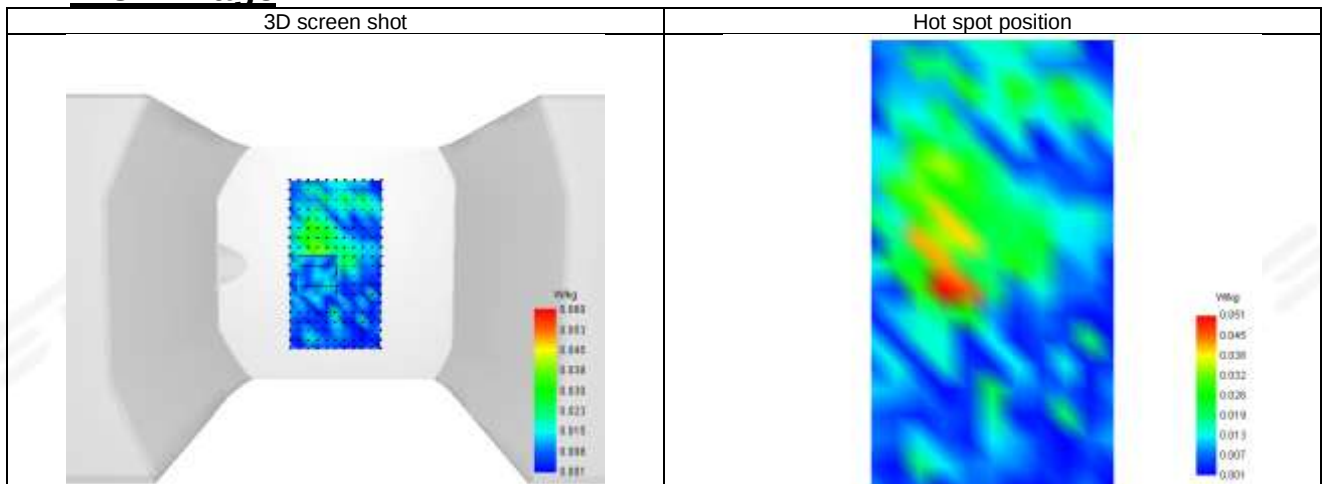
Maximum location: X=-15.00, Y=-6.00 ; SAR Peak: 0.13 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.028
SAR 1g (W/Kg)	0.062
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	57.549633

**E. Z Axis Scan**

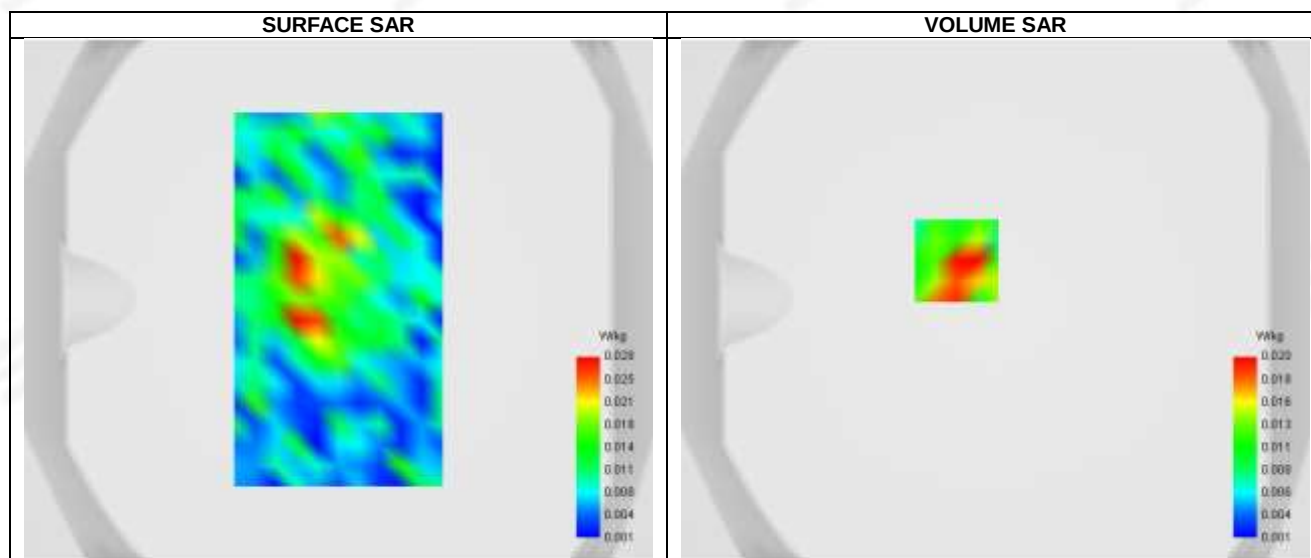
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.104	0.060	0.035	0.035	0.028	0.022	0.018

**F. 3D Image**



Plot 8: DUT: 4G/LTE MiFi Hotspot; EUT Model: MH07

Test Date	2025-06-06
ConvF	1.80
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Body
Device Position	Back
Band	2.4GHz WLAN
Signal	802.11b (Crest factor: 1.0)
Frequency (MHz)	2412
Relative permittivity (real part)	40.31
Conductivity (S/m)	1.83



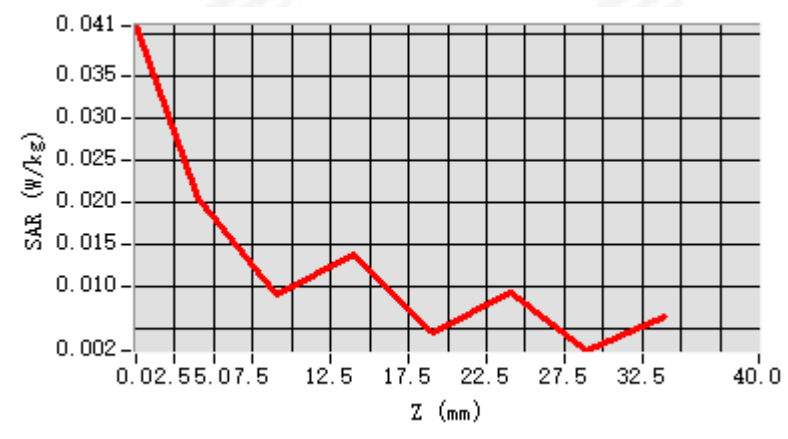
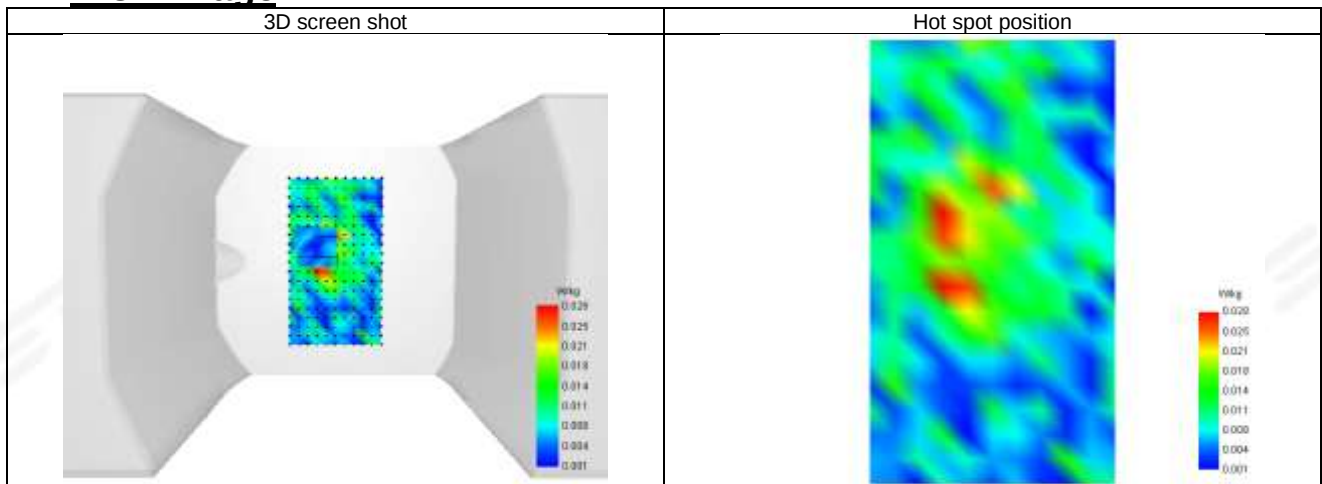
Maximum location: X=-15.00, Y=15.00 ; SAR Peak: 0.03 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.011
SAR 1g (W/Kg)	0.020
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	82.205739

**E. Z Axis Scan**

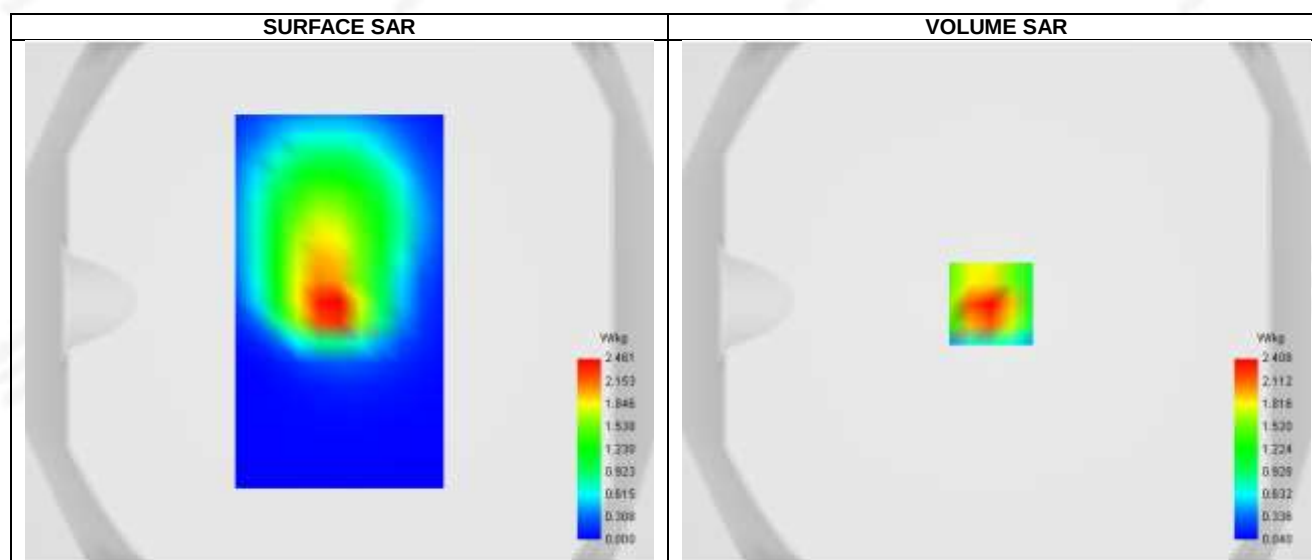
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.041	0.020	0.009	0.014	0.005	0.009	0.002

**F. 3D Image**



Plot 9: DUT: 4G/LTE MiFi Hotspot; EUT Model: MH07

Test Date	2025-05-28
ConvF	1.44
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Limbs
Device Position	Back
Band	LTE band 5
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	844
Relative permittivity (real part)	40.94
Conductivity (S/m)	0.93



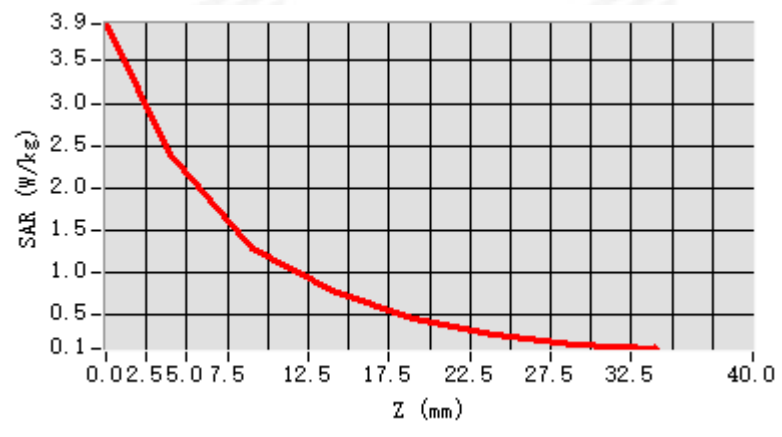
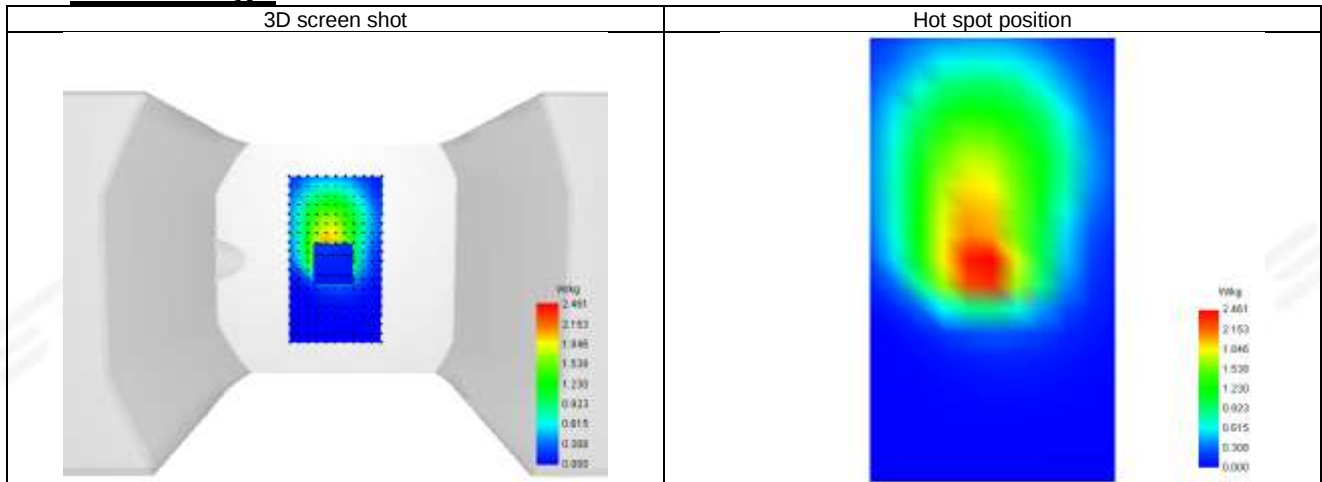
Maximum location: X=-2.00, Y=-1.00 ; SAR Peak: 4.23 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	1.167
SAR 1g (W/Kg)	2.377
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	53.450667

**E. Z Axis Scan**

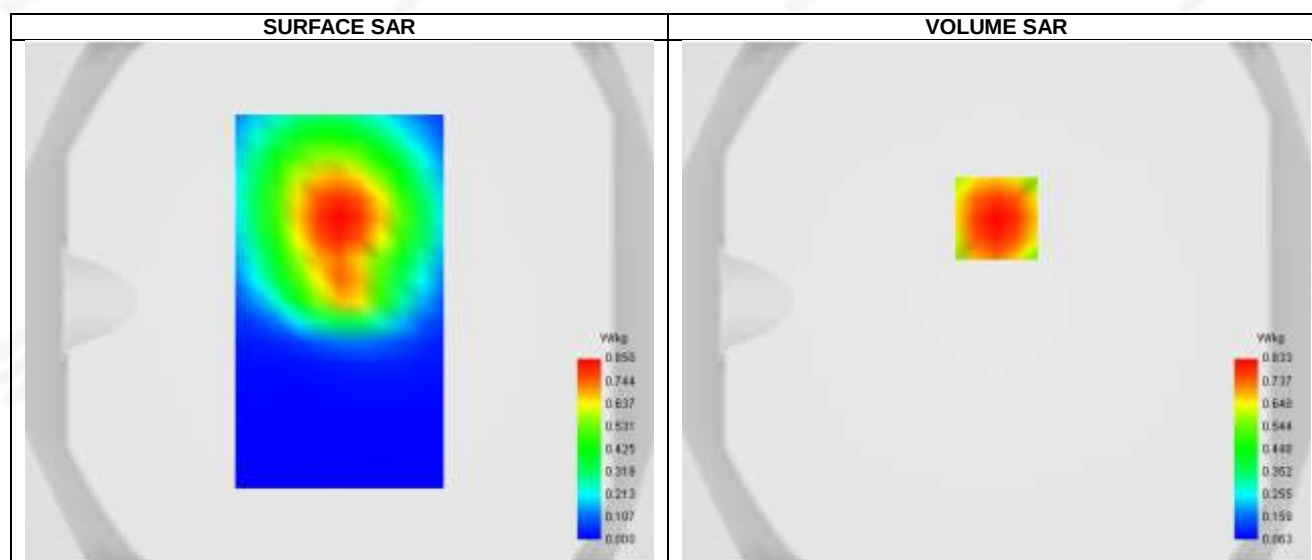
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	3.938	2.408	1.284	0.796	0.464	0.271	0.158

**F. 3D Image**



Plot 10: DUT: 4G/LTE MiFi Hotspot; EUT Model: MH07

Test Date	2025-05-28
ConvF	1.44
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Body
Device Position	Back
Band	LTE band 5
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	844
Relative permittivity (real part)	40.94
Conductivity (S/m)	0.93



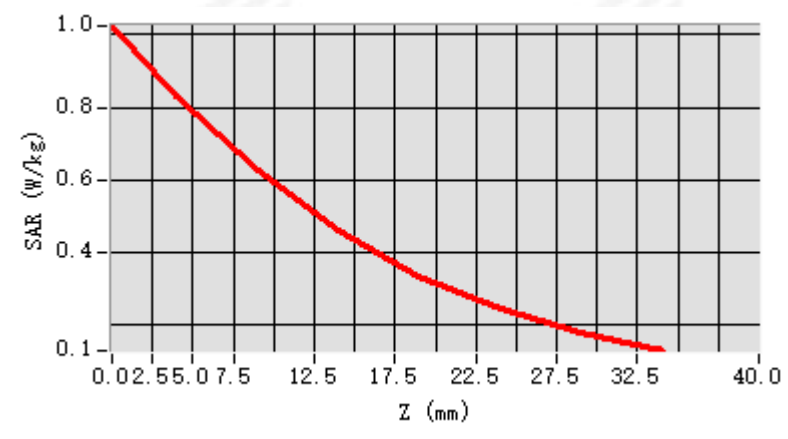
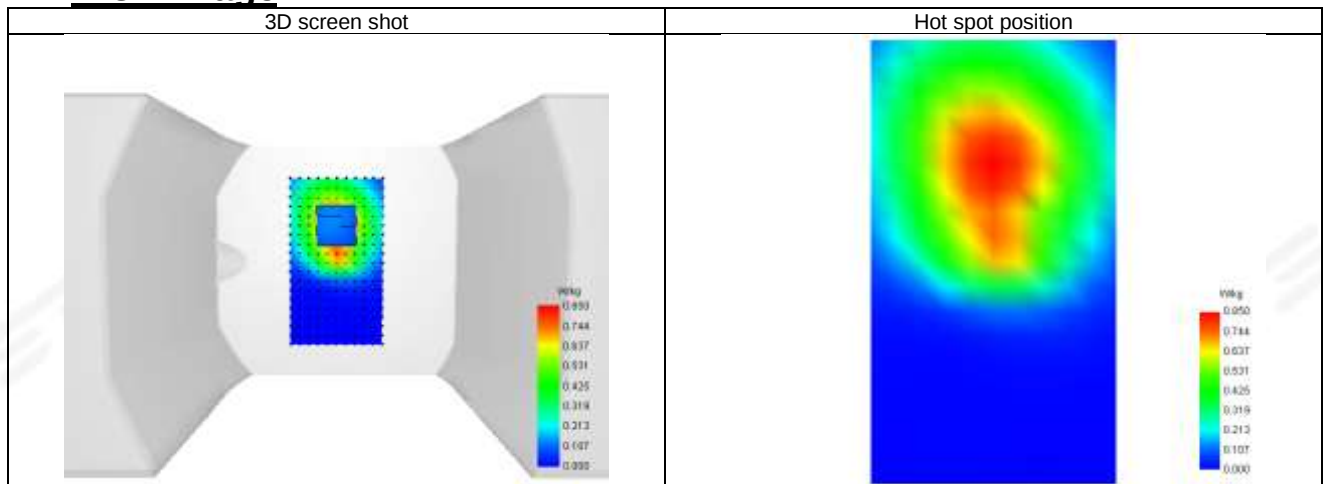
Maximum location: X=0.00, Y=32.00 ; SAR Peak: 1.04 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.559
SAR 1g (W/Kg)	0.766
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	75.270110

**E. Z Axis Scan**

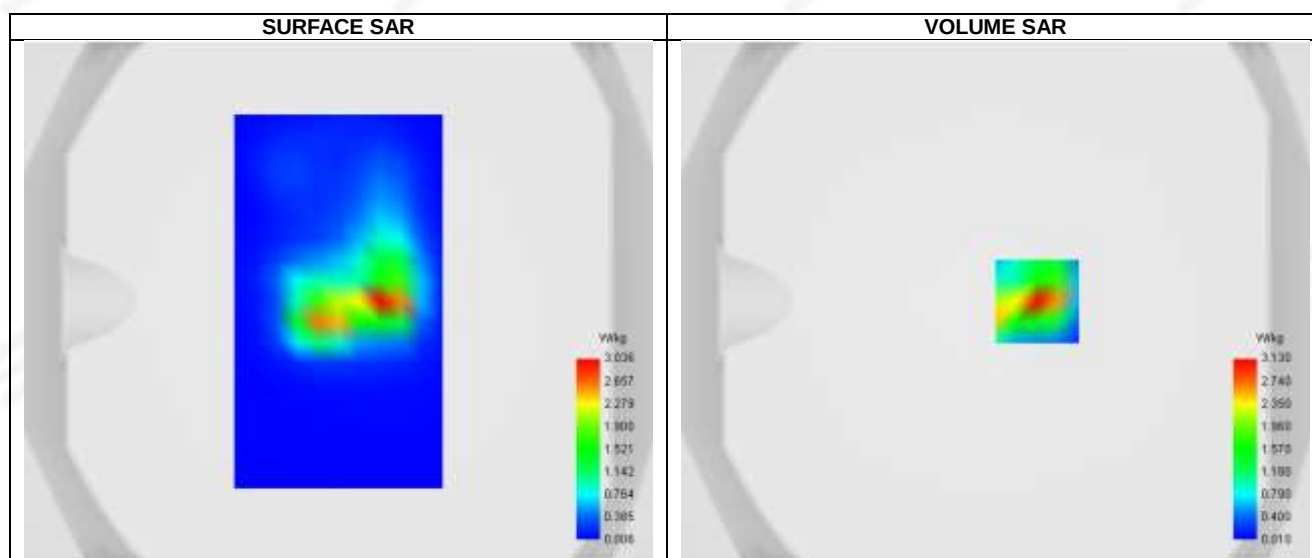
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.024	0.833	0.627	0.463	0.336	0.247	0.182

**F. 3D Image**



Plot 11: DUT: 4G/LTE MiFi Hotspot; EUT Model: MH07

Test Date	2025-06-06
ConvF	1.74
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Limbs
Device Position	Back
Band	LTE band 7
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2535
Relative permittivity (real part)	39.82
Conductivity (S/m)	1.85



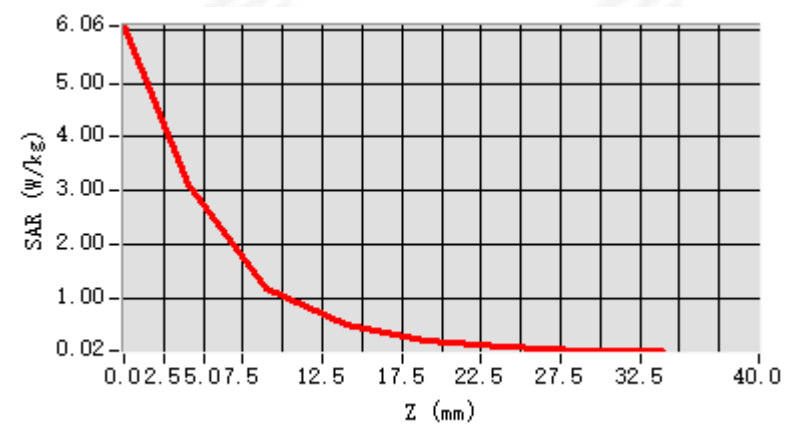
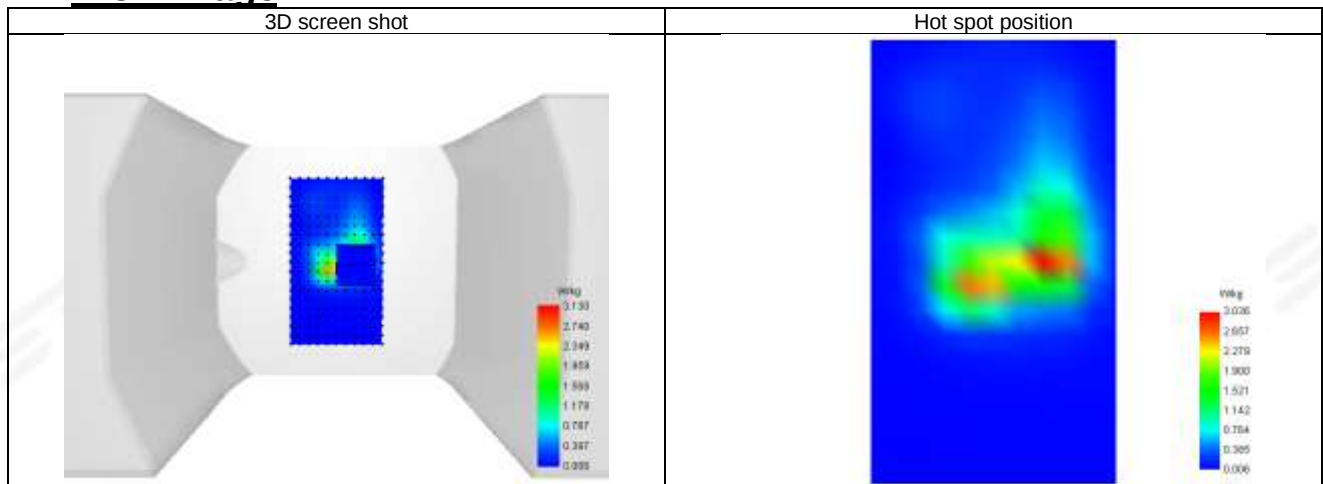
Maximum location: X=16.00, Y=0.00 ; SAR Peak: 6.12 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	1.012
SAR 1g (W/Kg)	2.801
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	42.586348

**E. Z Axis Scan**

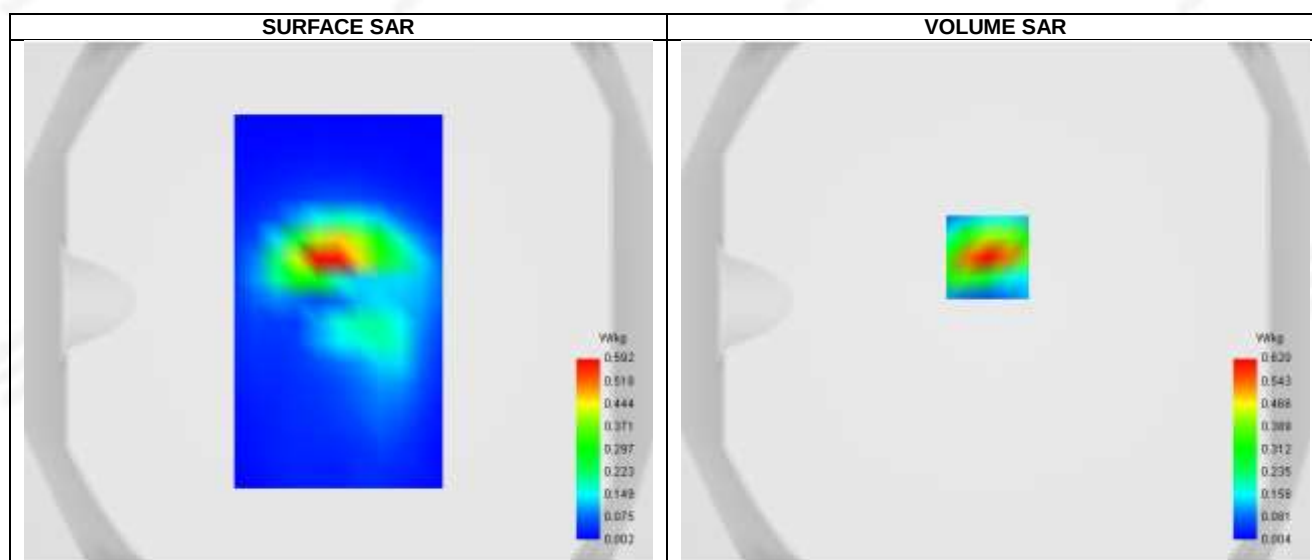
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.065	3.130	1.179	0.499	0.201	0.081	0.032

**F. 3D Image**



Plot 12: DUT: 4G/LTE MiFi Hotspot; EUT Model: MH07

Test Date	2025-06-06
ConvF	1.74
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Limbs
Device Position	Body
Band	LTE band 7
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2535
Relative permittivity (real part)	39.82
Conductivity (S/m)	1.85



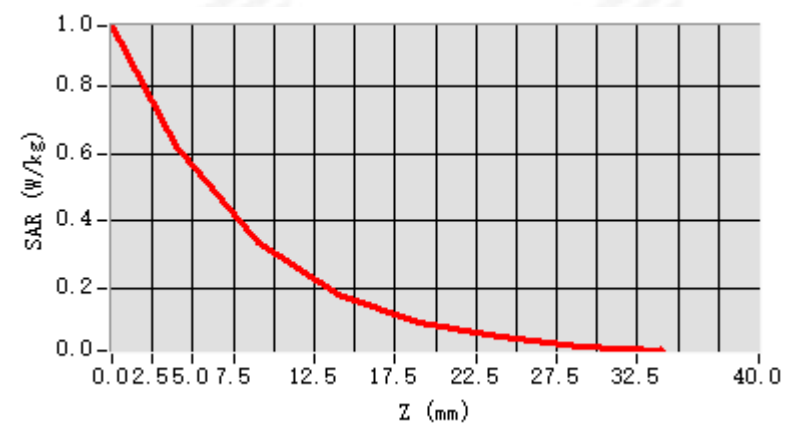
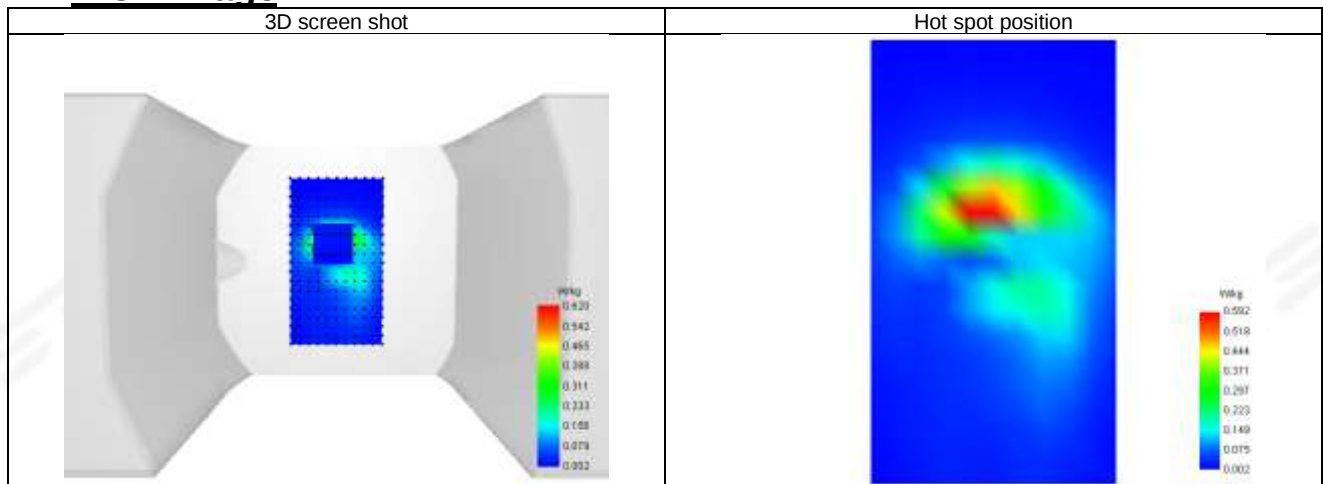
Maximum location: X=-3.00, Y=17.00 ; SAR Peak: 0.97 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.263
SAR 1g (W/Kg)	0.555
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	54.610635

**E. Z Axis Scan**

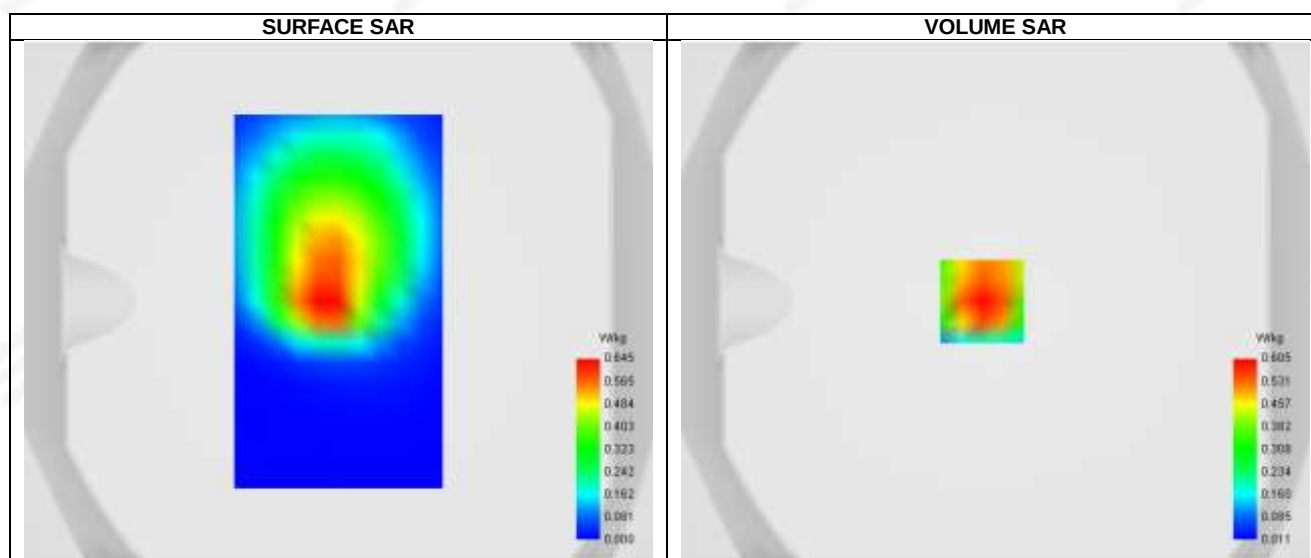
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.979	0.620	0.338	0.186	0.102	0.056	0.031

**F. 3D Image**



Plot 13: DUT: 4G/LTE MiFi Hotspot; EUT Model: MH07

Test Date	2025-05-30
ConvF	1.56
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Limbs
Device Position	Back
Band	LTE band 12&17
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	704
Relative permittivity (real part)	42.16
Conductivity (S/m)	0.85



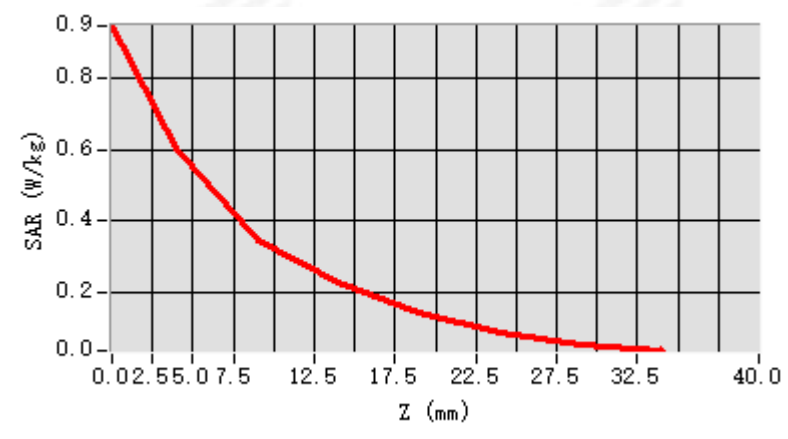
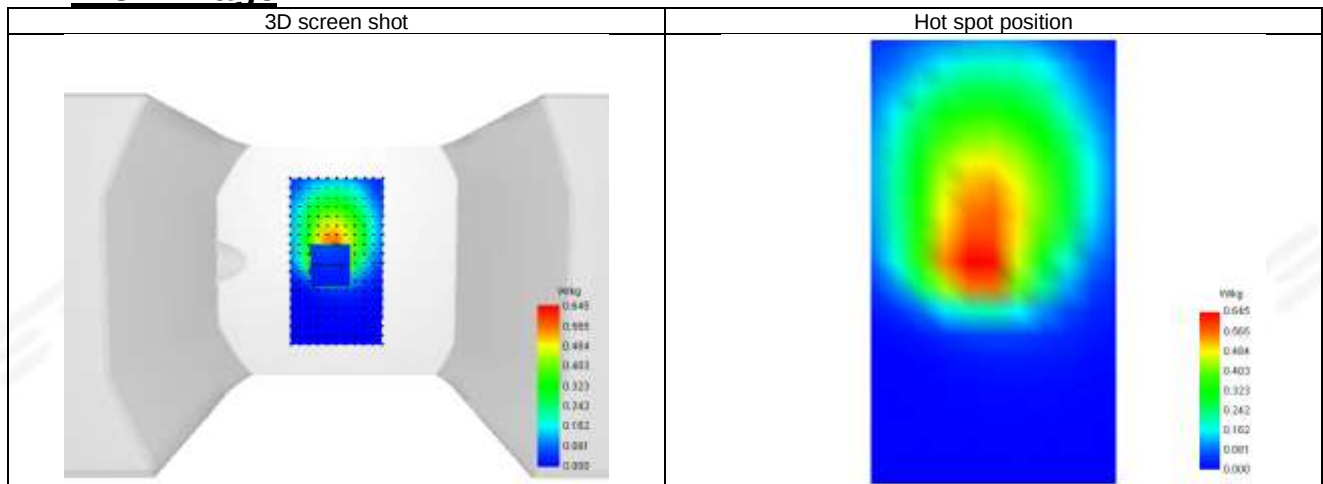
Maximum location: X=-5.00, Y=0.00 ; SAR Peak: 1.05 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.311
SAR 1g (W/Kg)	0.606
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	66.104453

**E. Z Axis Scan**

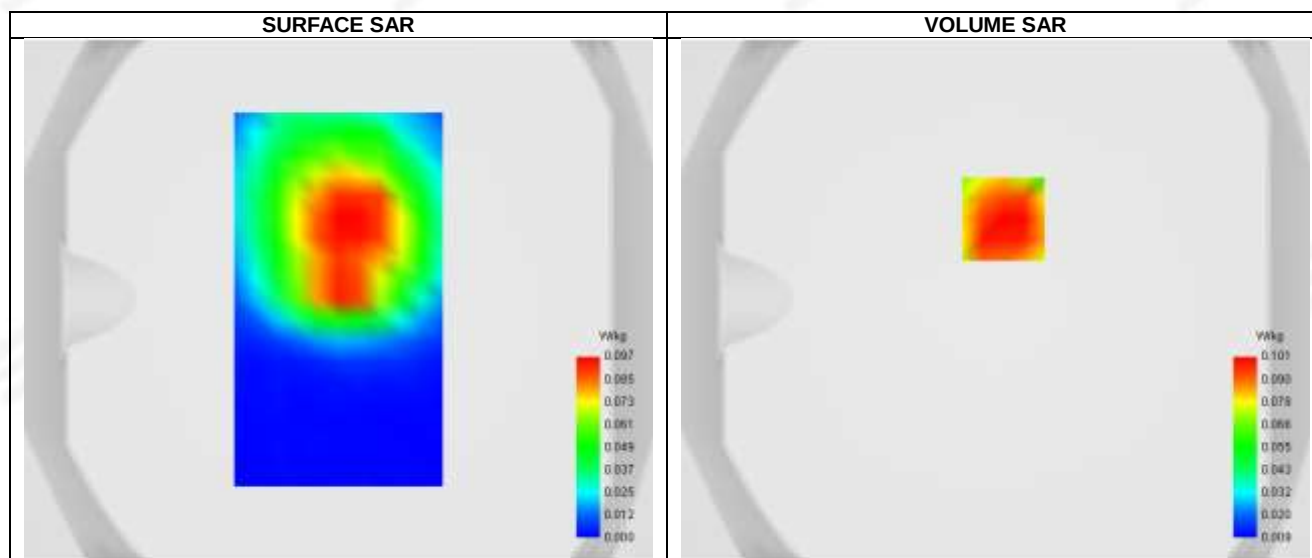
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.945	0.605	0.348	0.228	0.141	0.088	0.054

**F. 3D Image**



Plot 14: DUT: 4G/LTE MiFi Hotspot; EUT Model: MH07

Test Date	2025-05-30
ConvF	1.56
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Body
Device Position	Back
Band	LTE band 12&17
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	704
Relative permittivity (real part)	42.16
Conductivity (S/m)	0.85



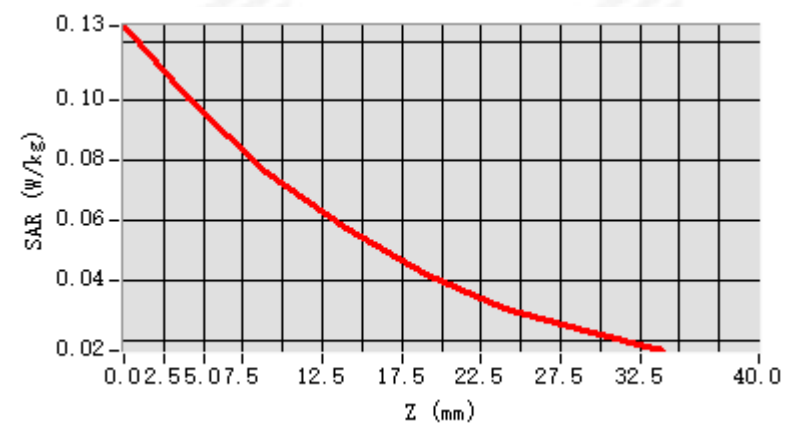
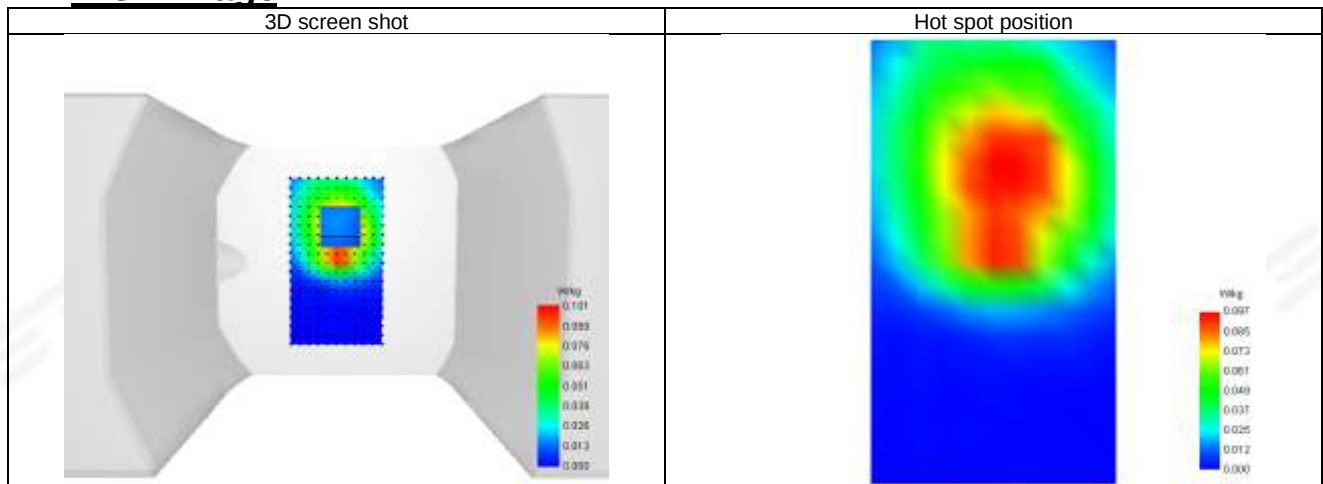
Maximum location: X=3.00, Y=31.00 ; SAR Peak: 0.13 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.069
SAR 1g (W/Kg)	0.098
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	75.241014

**E. Z Axis Scan**

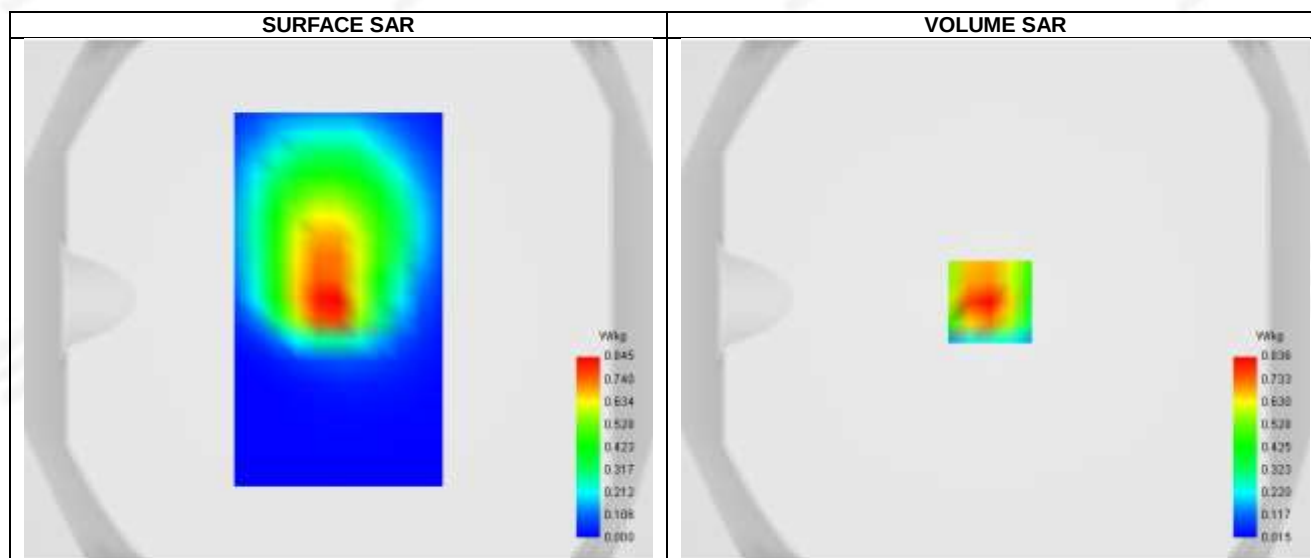
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.125	0.101	0.076	0.057	0.042	0.031	0.023

**F. 3D Image**



Plot 15: DUT: 4G/LTE MiFi Hotspot; EUT Model: MH07

Test Date	2025-05-30
ConvF	1.44
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Limbs
Device Position	Back
Band	LTE band 13
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	782
Relative permittivity (real part)	42.38
Conductivity (S/m)	0.86

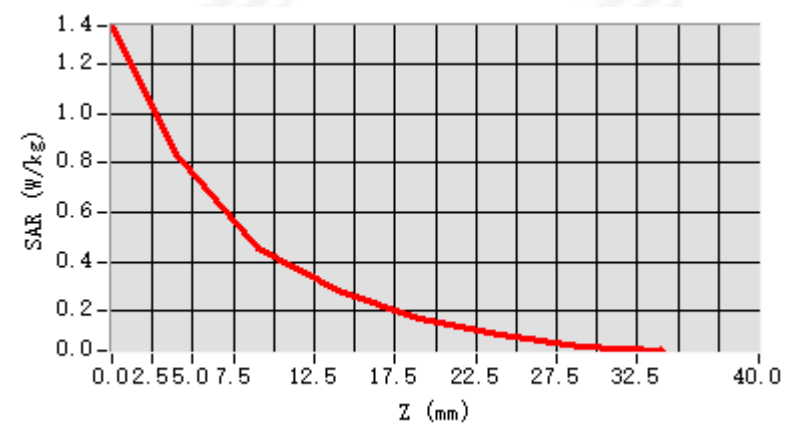
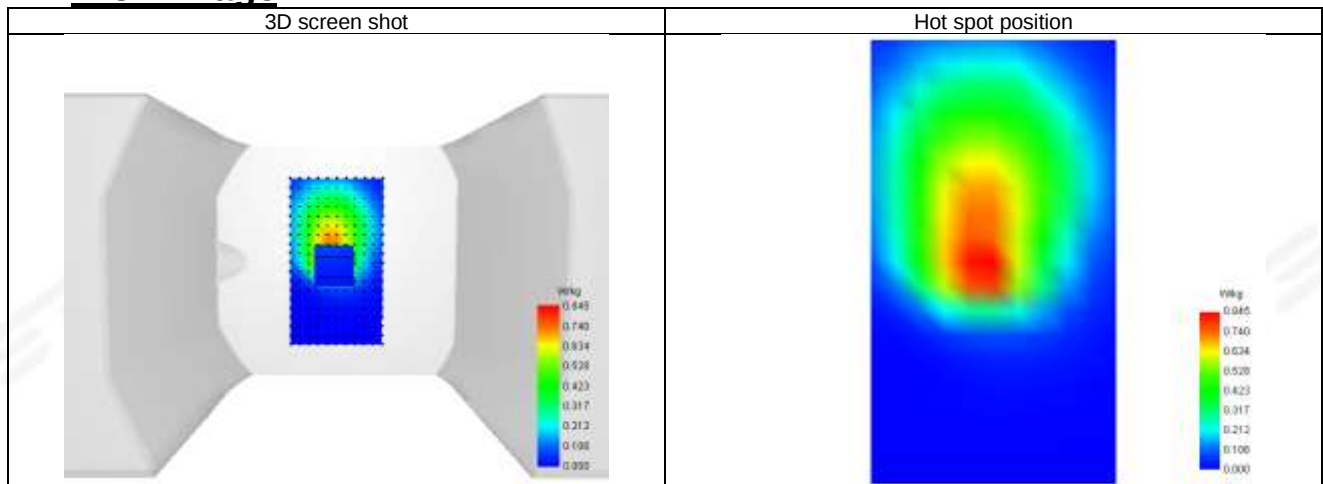


D. SAR 1g & 10g

SAR 10g (W/Kg)	0.414
SAR 1g (W/Kg)	0.828
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	62.909623

**E. Z Axis Scan**

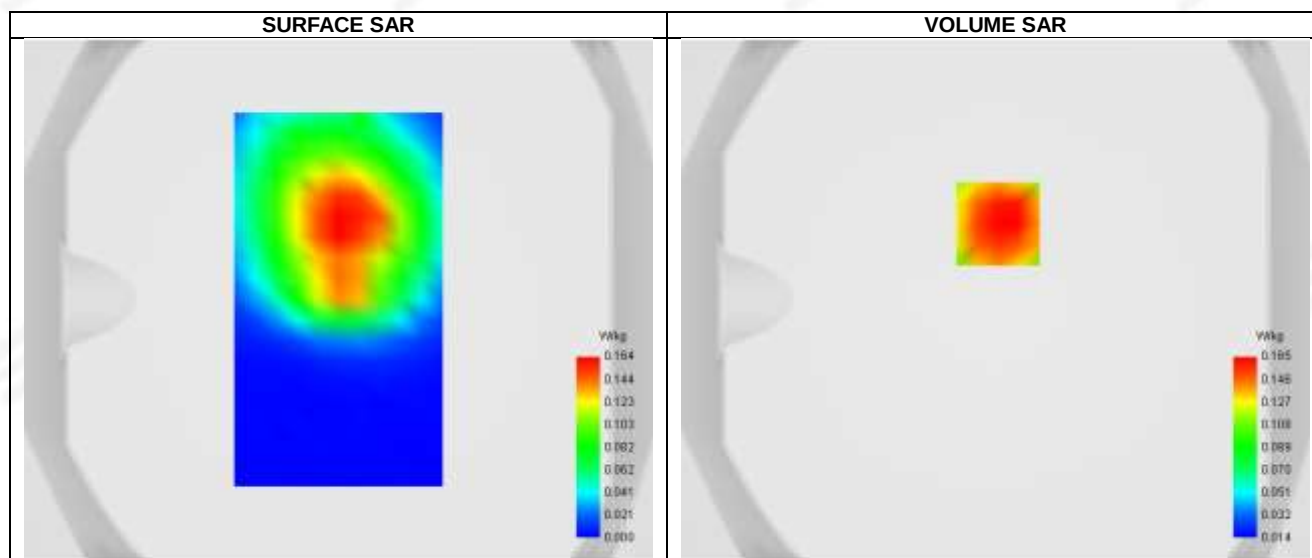
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.354	0.836	0.454	0.288	0.171	0.102	0.061

**F. 3D Image**



Plot 16: DUT: 4G/LTE MiFi Hotspot; EUT Model: MH07

Test Date	2025-05-30
ConvF	1.44
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Body
Device Position	Back
Band	LTE band 13
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	782
Relative permittivity (real part)	42.38
Conductivity (S/m)	0.86



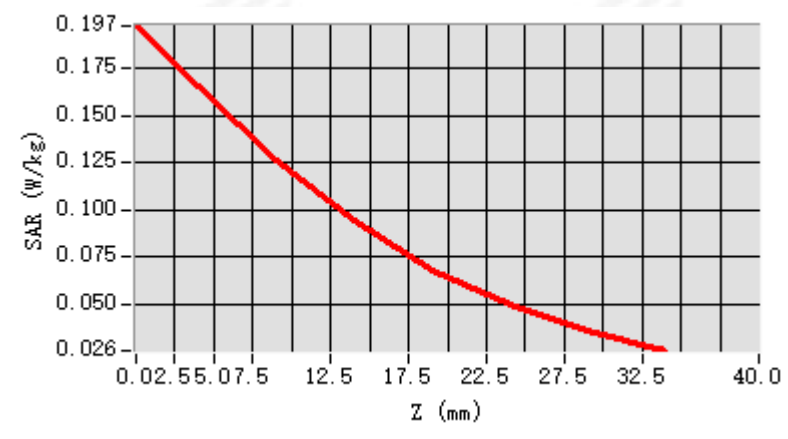
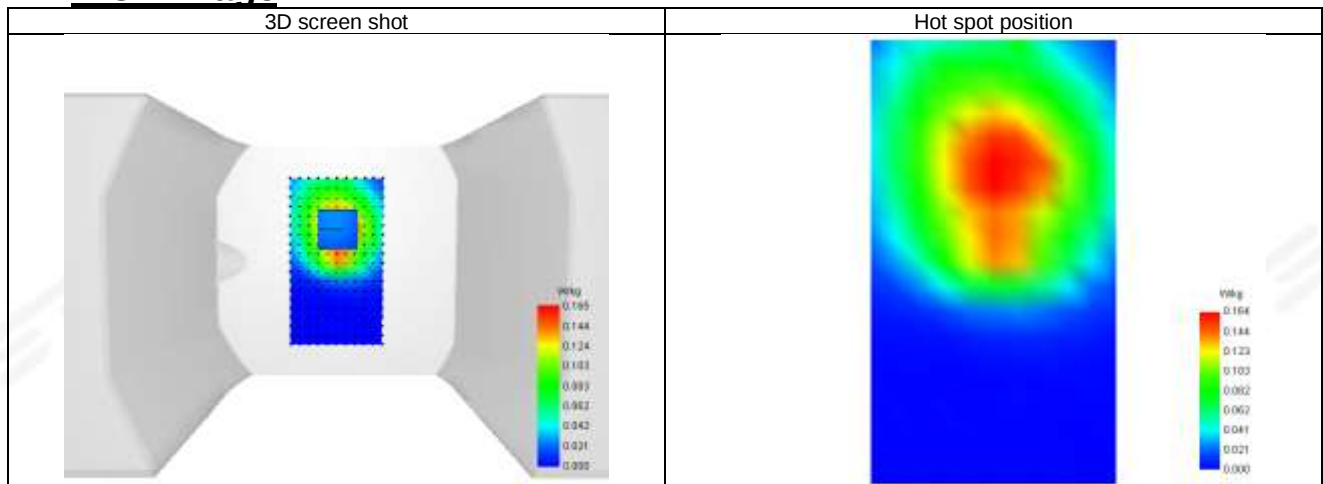
Maximum location: X=1.00, Y=29.00 ; SAR Peak: 0.22 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.112
SAR 1g (W/Kg)	0.161
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	59.662105

**E. Z Axis Scan**

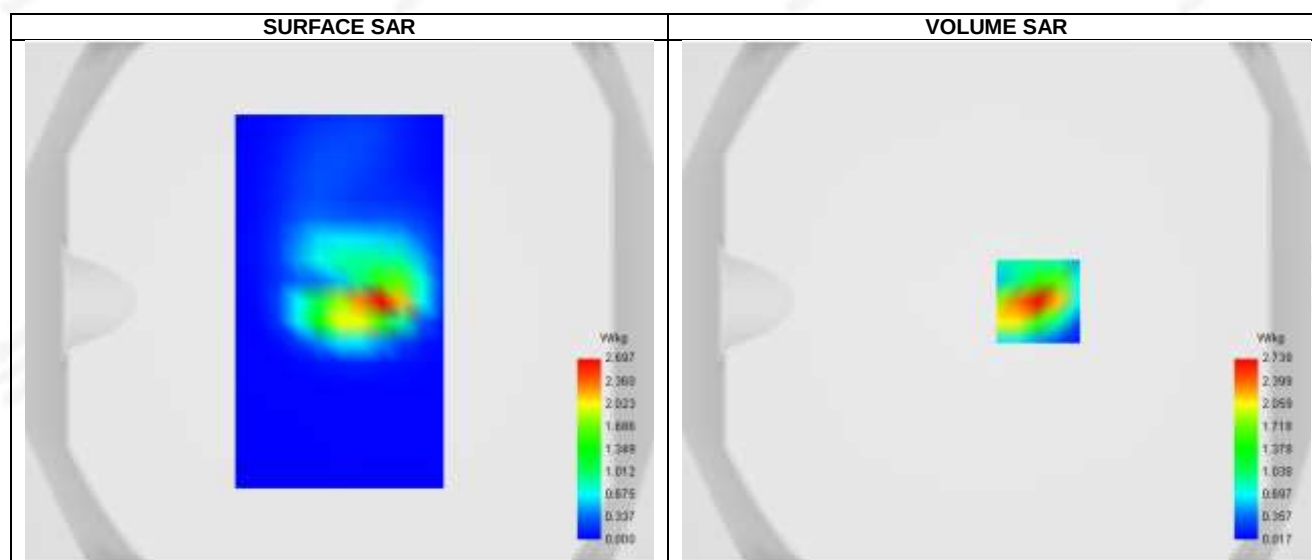
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.197	0.165	0.126	0.095	0.068	0.050	0.037

**F. 3D Image**



Plot 17: DUT: 4G/LTE MiFi Hotspot; EUT Model: MH07

Test Date	2025-06-03
ConvF	1.72
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Limbs
Device Position	Back
Band	LTE band 25&2
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1882.5
Relative permittivity (real part)	40.77
Conductivity (S/m)	1.44



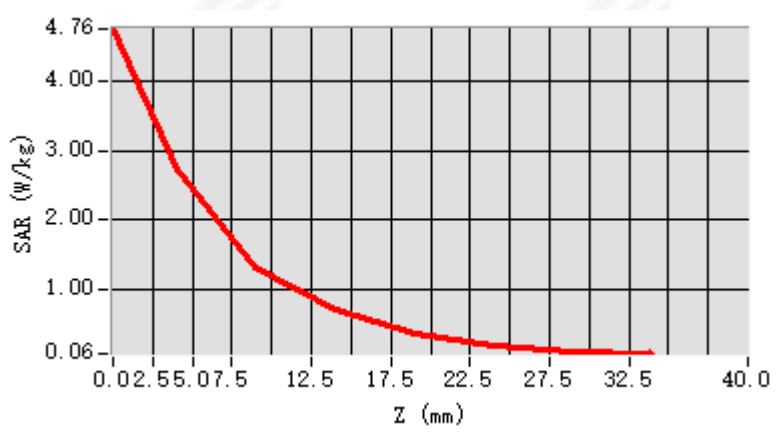
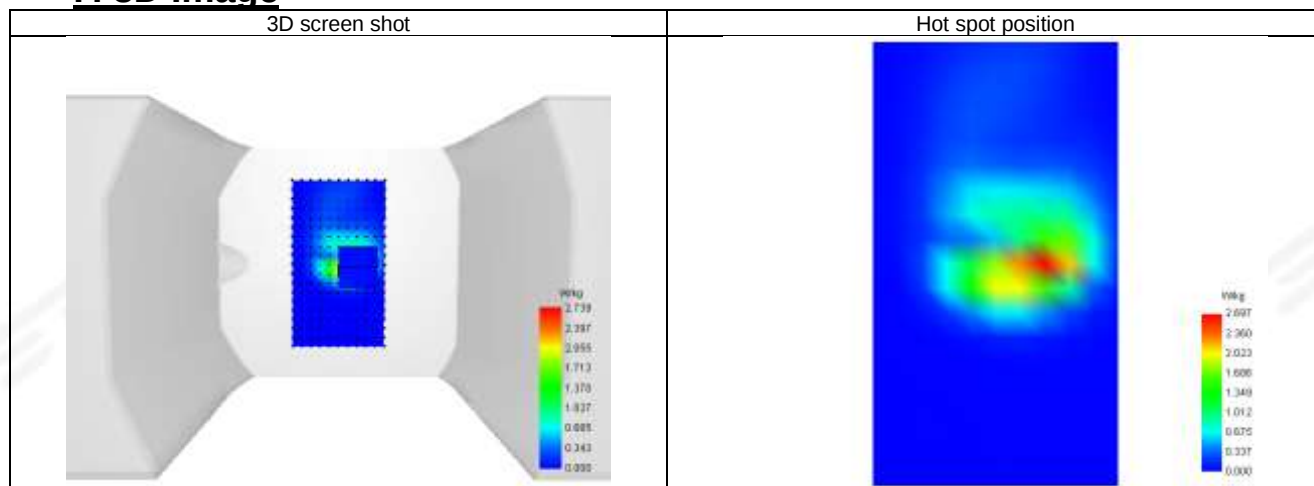
Maximum location: X=16.00, Y=0.00 ; SAR Peak: 4.72 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	1.060
SAR 1g (W/Kg)	2.455
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	47.426314

**E. Z Axis Scan**

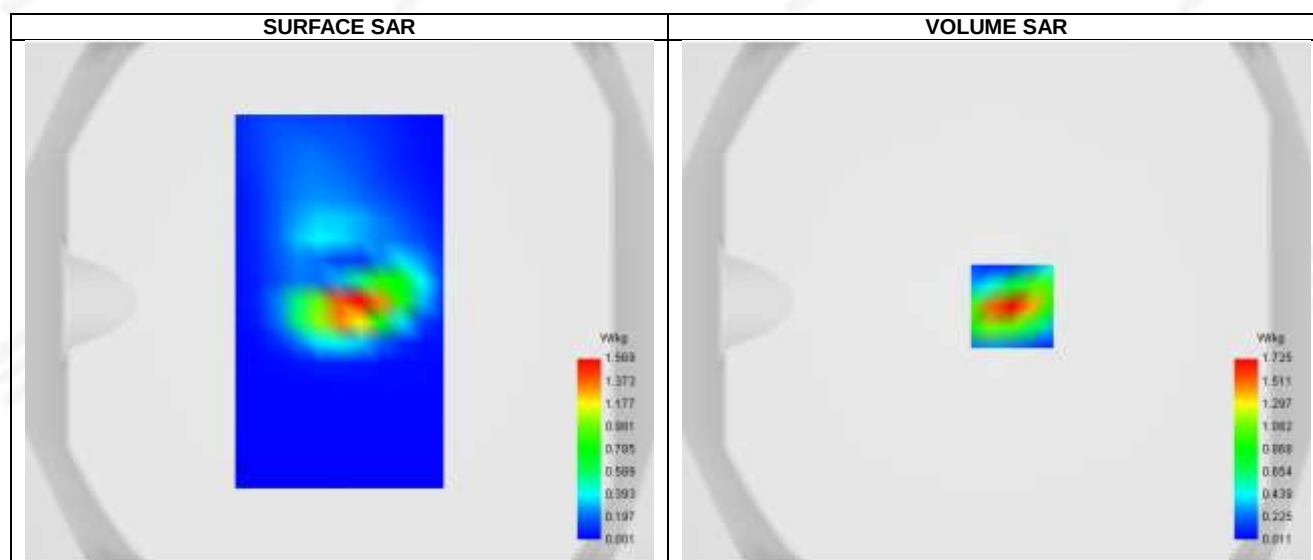
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	4.760	2.739	1.299	0.701	0.358	0.183	0.094

**F. 3D Image**



Plot 18: DUT: 4G/LTE MiFi Hotspot; EUT Model: MH07

Test Date	2025-06-03
ConvF	1.72
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Body
Device Position	Back
Band	LTE band 25&2
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1882.5
Relative permittivity (real part)	40.77
Conductivity (S/m)	1.44

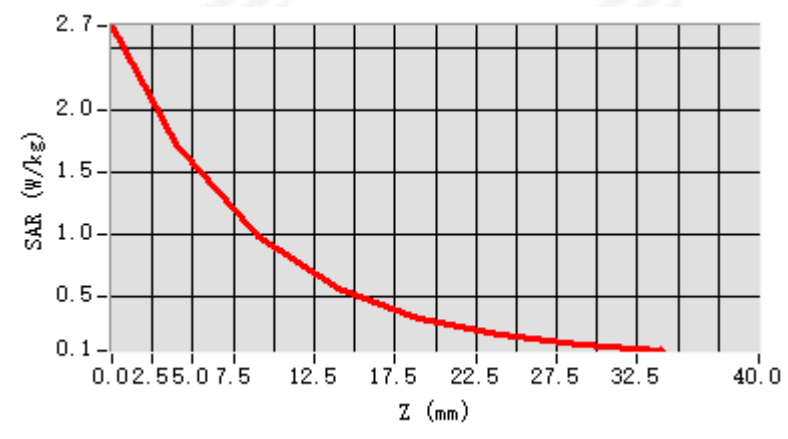
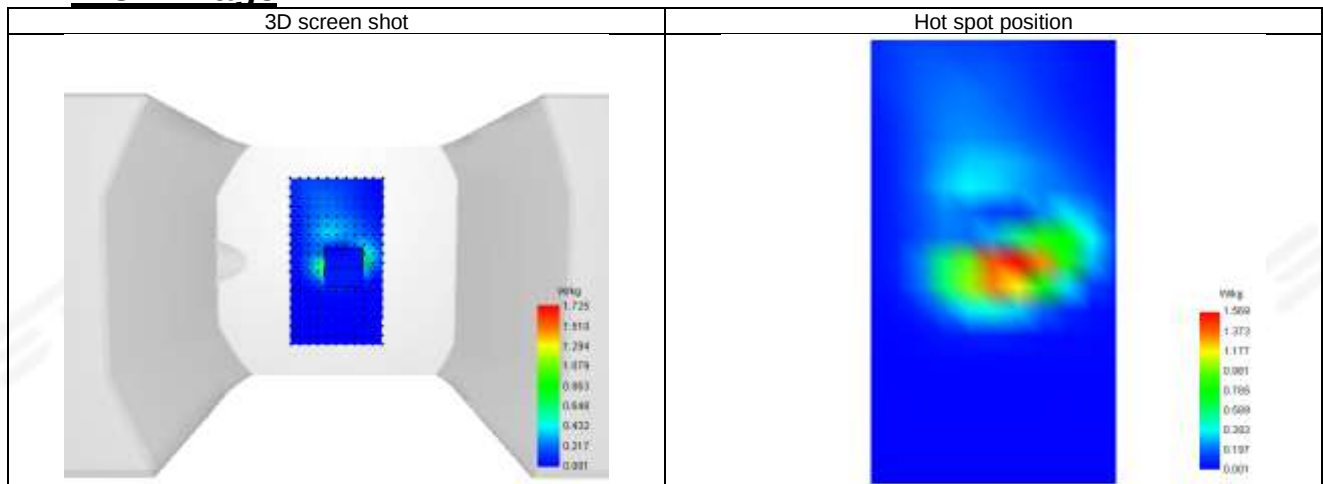


D. SAR 1g & 10g

SAR 10g (W/Kg)	0.710
SAR 1g (W/Kg)	1.166
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	56.554978

**E. Z Axis Scan**

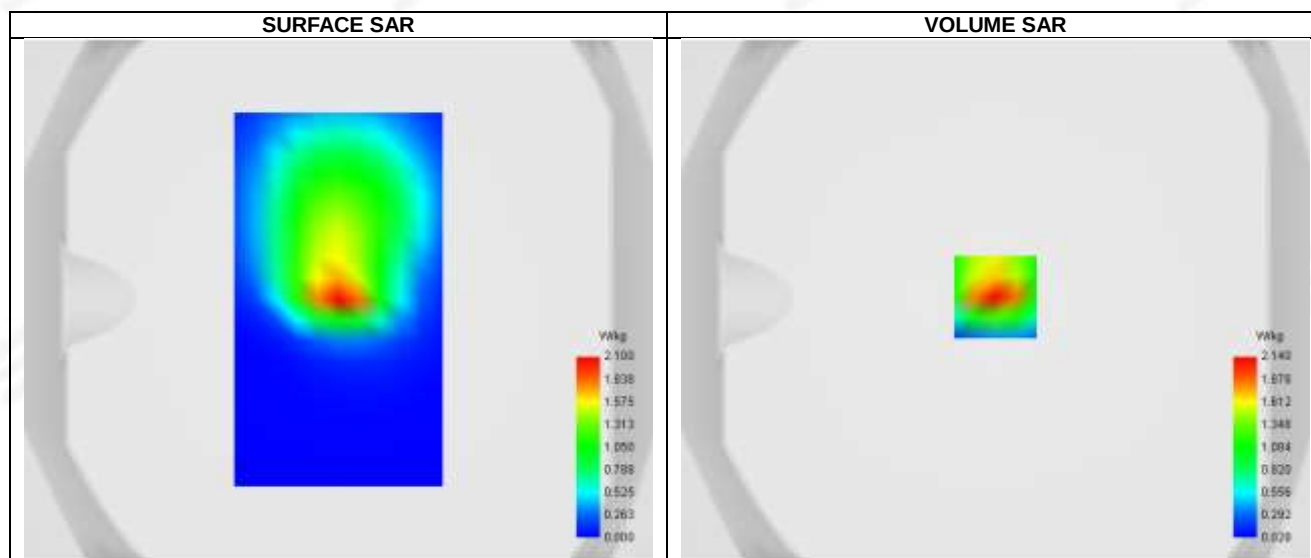
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.674	1.725	0.976	0.570	0.329	0.189	0.109

**F. 3D Image**



Plot 19: DUT: 4G/LTE MiFi Hotspot; EUT Model: MH07

Test Date	2025-05-28
ConvF	1.44
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Limbs
Device Position	Back
Band	LTE band 26
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	841.5
Relative permittivity (real part)	40.53
Conductivity (S/m)	0.93



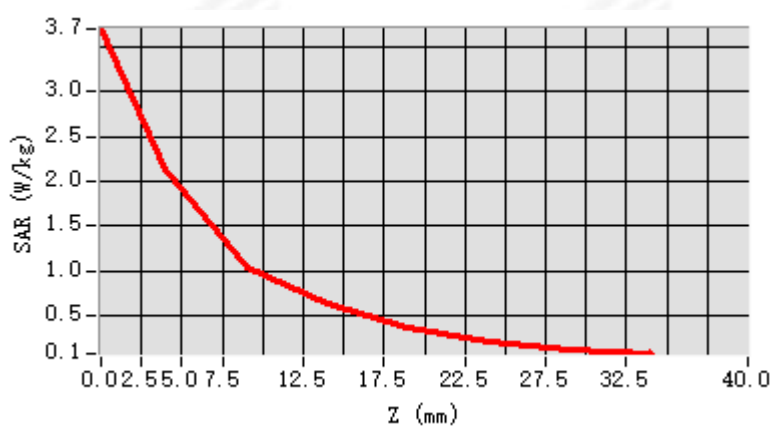
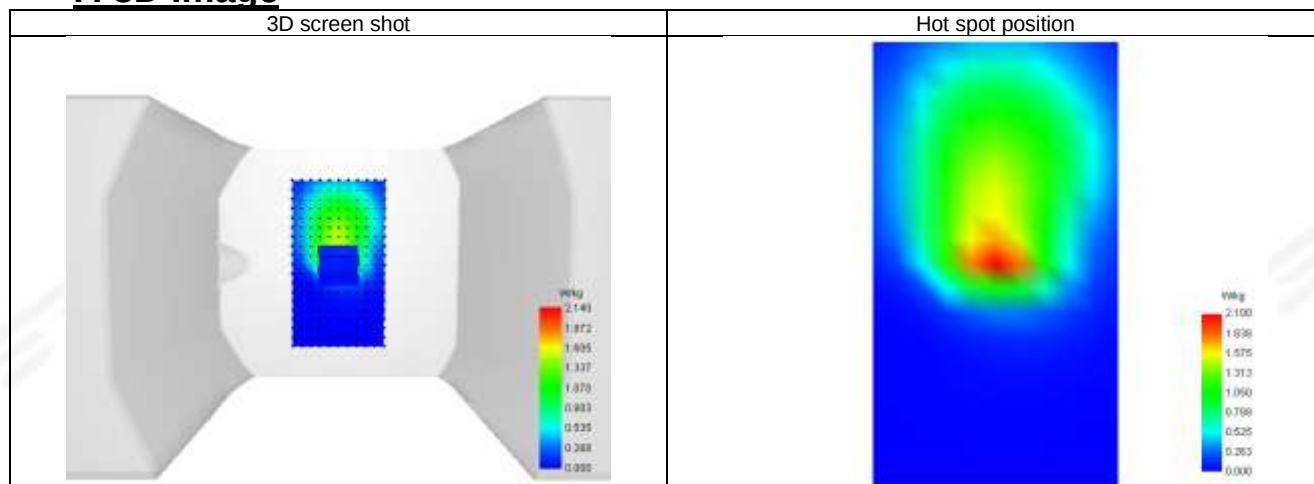
Maximum location: X=0.00, Y=1.00 ; SAR Peak: 3.63 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.962
SAR 1g (W/Kg)	1.998
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	54.498582

**E. Z Axis Scan**

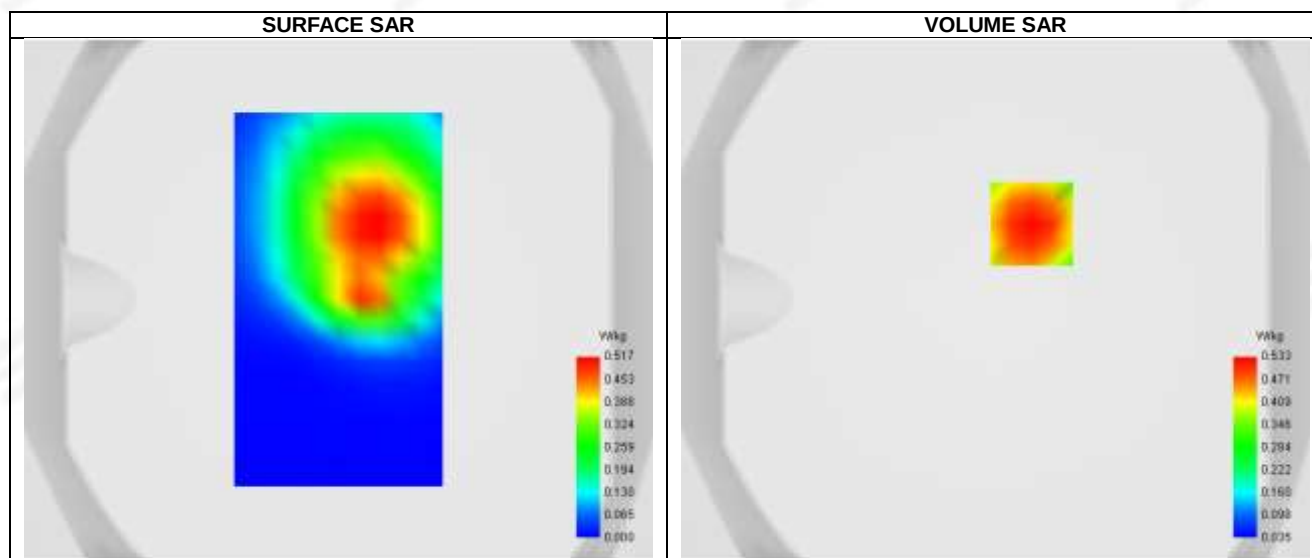
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	3.701	2.140	1.047	0.645	0.361	0.202	0.113

**F. 3D Image**



Plot 20: DUT: 4G/LTE MiFi Hotspot; EUT Model: MH07

Test Date	2025-05-28
ConvF	1.44
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Body
Device Position	Back
Band	LTE band 26
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	841.5
Relative permittivity (real part)	40.53
Conductivity (S/m)	0.93



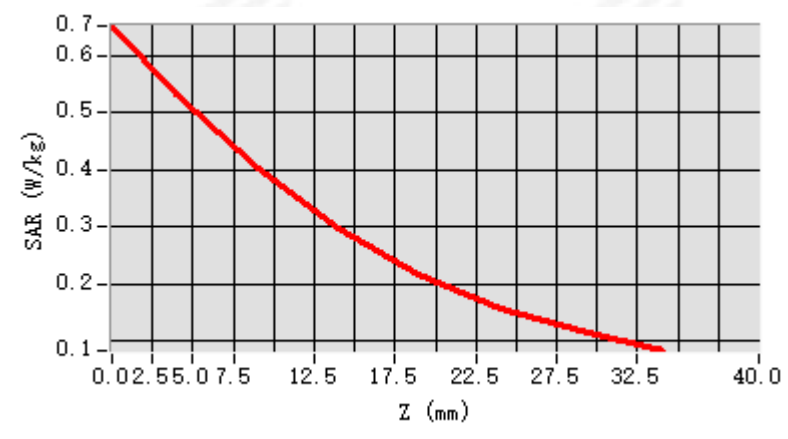
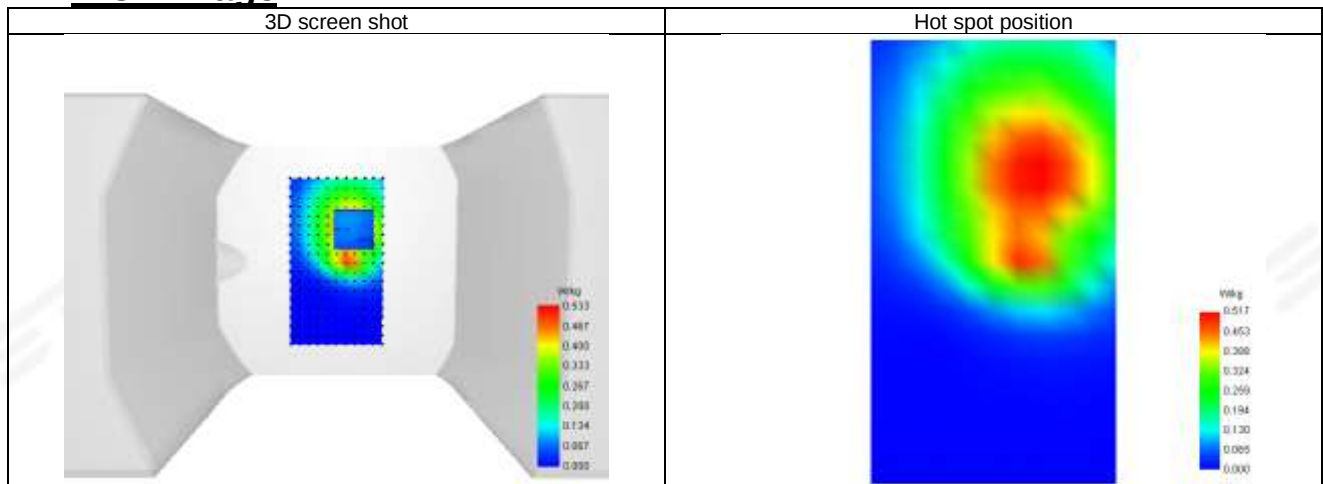
Maximum location: X=14.00, Y=29.00 ; SAR Peak: 0.67 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.358
SAR 1g (W/Kg)	0.510
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	75.411025

**E. Z Axis Scan**

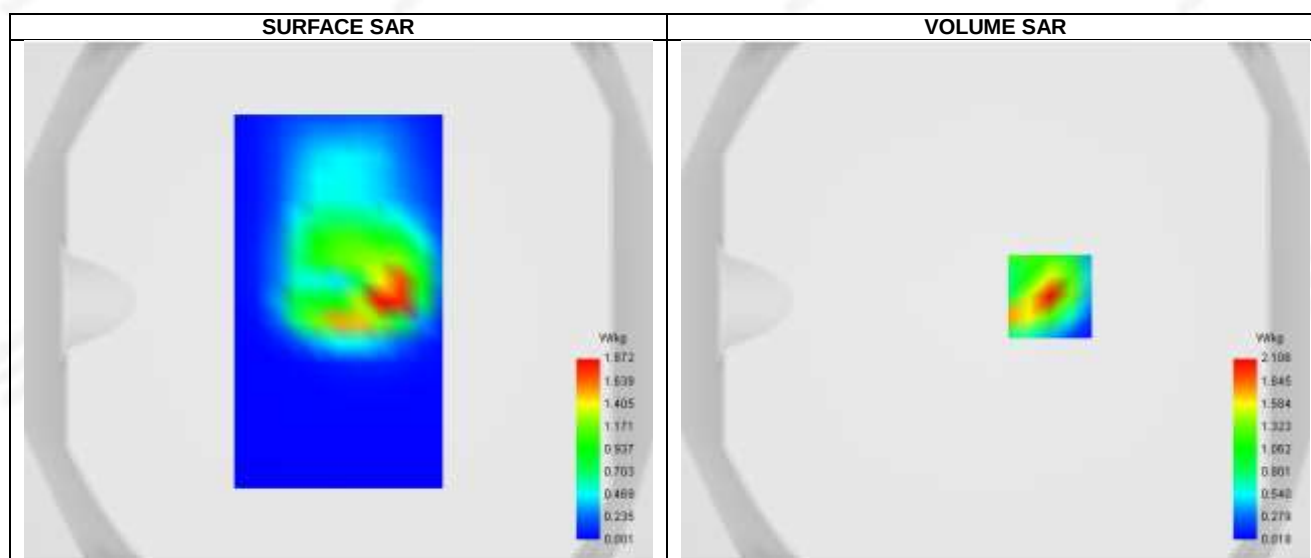
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.653	0.533	0.402	0.298	0.215	0.158	0.116

**F. 3D Image**



Plot 21: DUT: 4G/LTE MiFi Hotspot; EUT Model: MH07

Test Date	2025-05-29
ConvF	1.58
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Limbs
Device Position	Back
Band	LTE band 66&4
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1755
Relative permittivity (real part)	41.33
Conductivity (S/m)	1.34



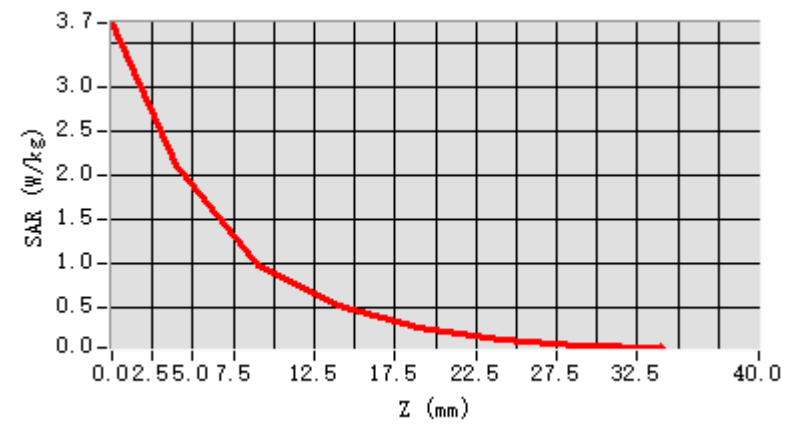
Maximum location: X=21.00, Y=2.00 ; SAR Peak: 3.66 W/kg

D. SAR 1g & 10g

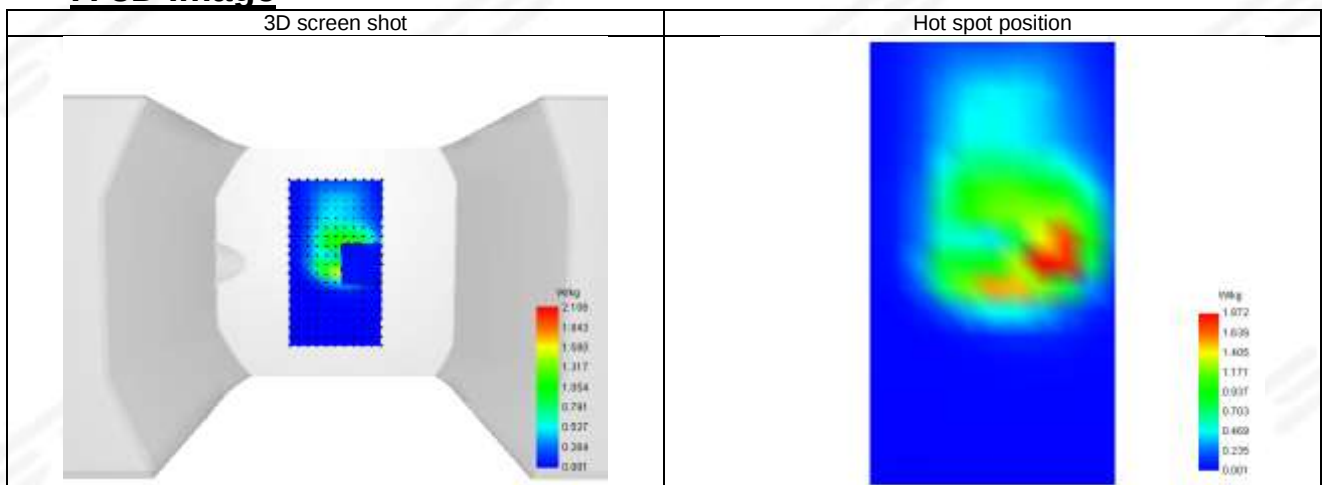
SAR 10g (W/Kg)	0.828
SAR 1g (W/Kg)	1.872
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	46.014325

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	3.729	2.106	0.969	0.525	0.266	0.134	0.068



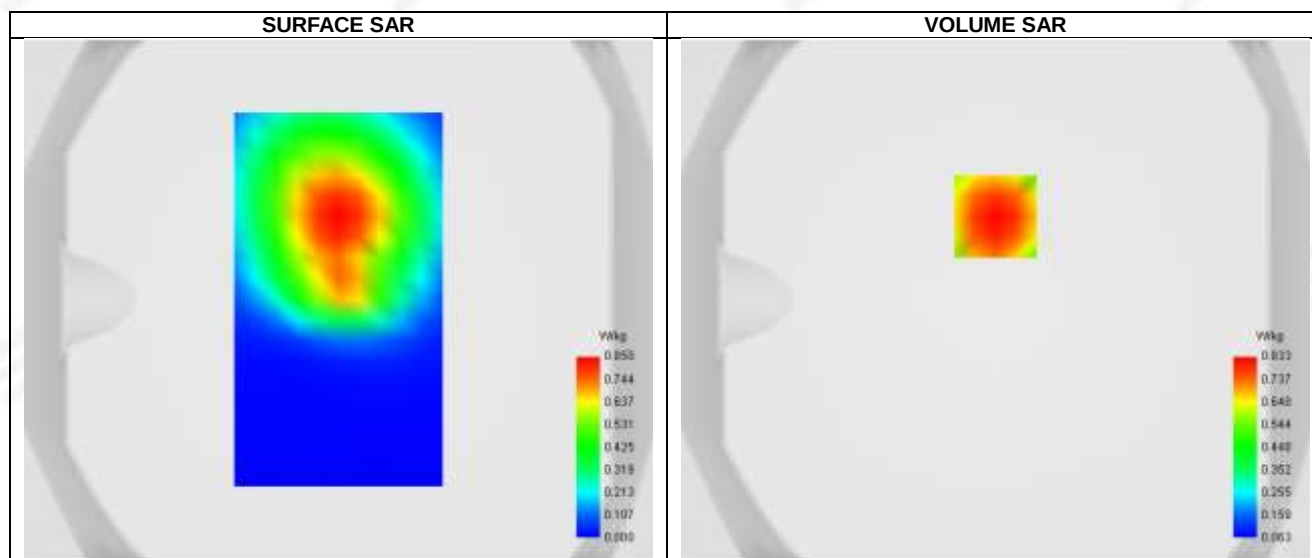
F. 3D Image





Plot 22: DUT: 4G/LTE MiFi Hotspot; EUT Model: MH07

Test Date	2025-05-29
ConvF	1.58
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Body
Device Position	Back
Band	LTE band 66&4
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1755
Relative permittivity (real part)	41.33
Conductivity (S/m)	1.34



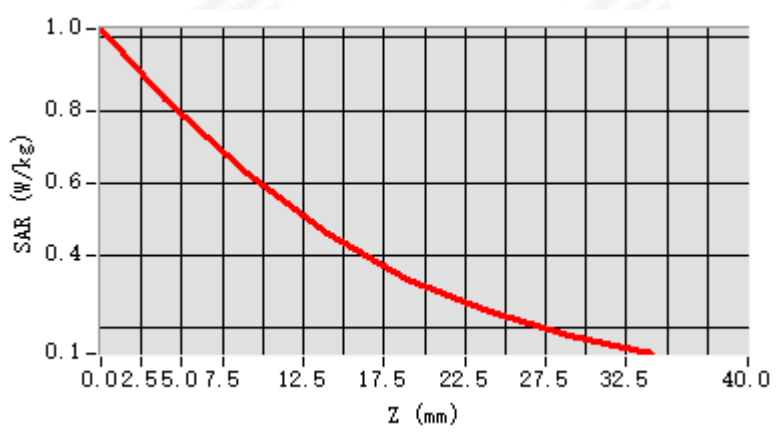
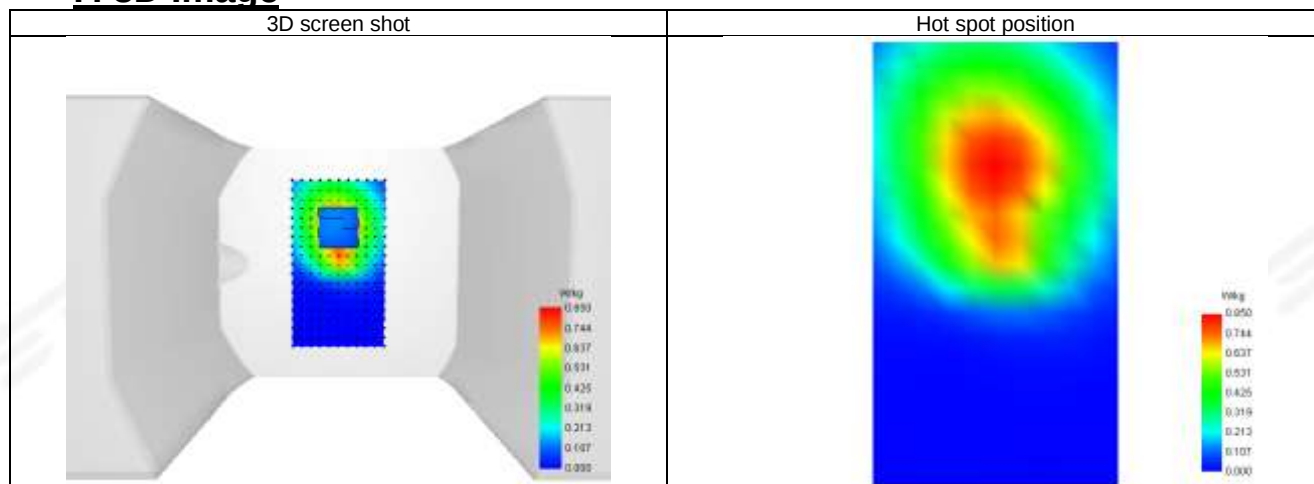
Maximum location: X=0.00, Y=32.00 ; SAR Peak: 1.04 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.559
SAR 1g (W/Kg)	0.710
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	75.271005

**E. Z Axis Scan**

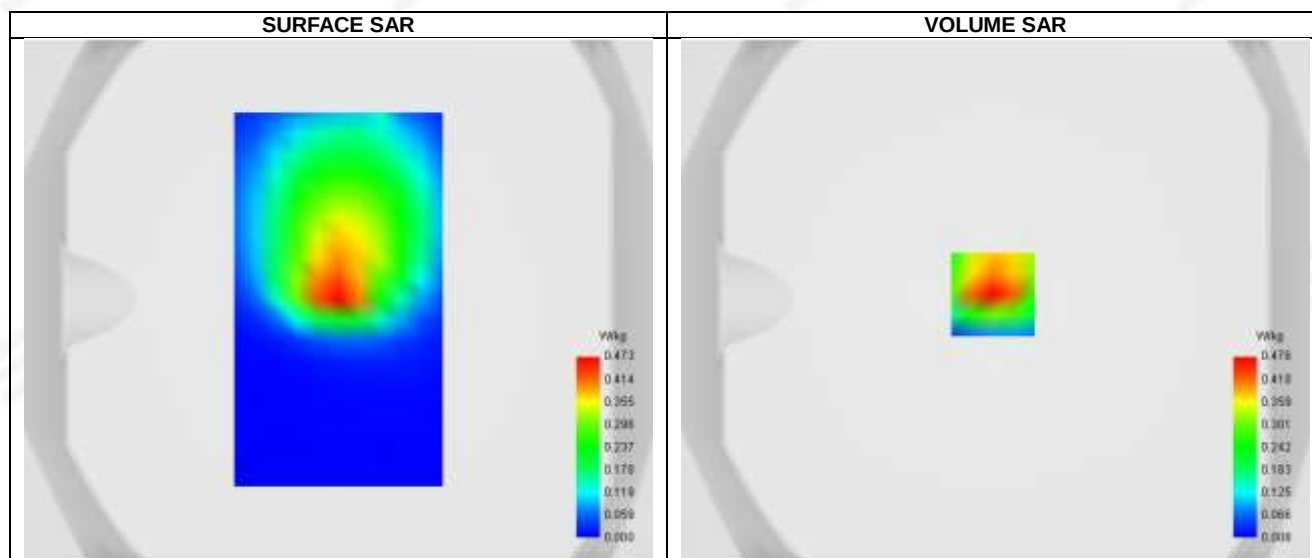
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.024	0.833	0.627	0.463	0.336	0.247	0.182

**F. 3D Image**



Plot 23: DUT: 4G/LTE MiFi Hotspot; EUT Model: MH07

Test Date	2025-05-30
ConvF	1.56
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Limbs
Device Position	Back
Band	LTE band 71
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	673
Relative permittivity (real part)	42.81
Conductivity (S/m)	0.85



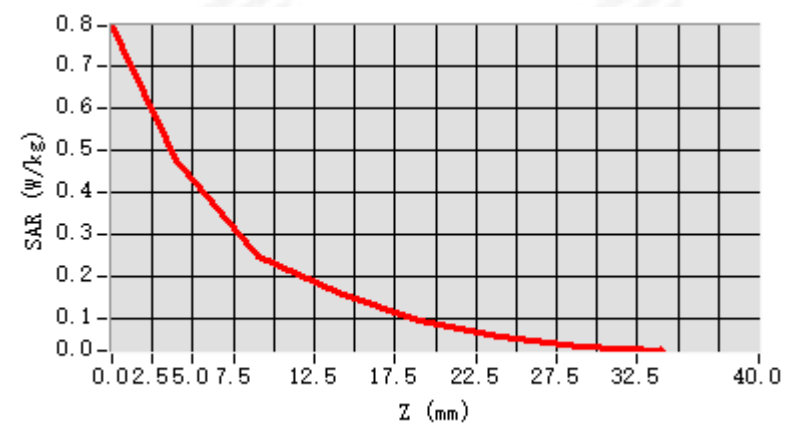
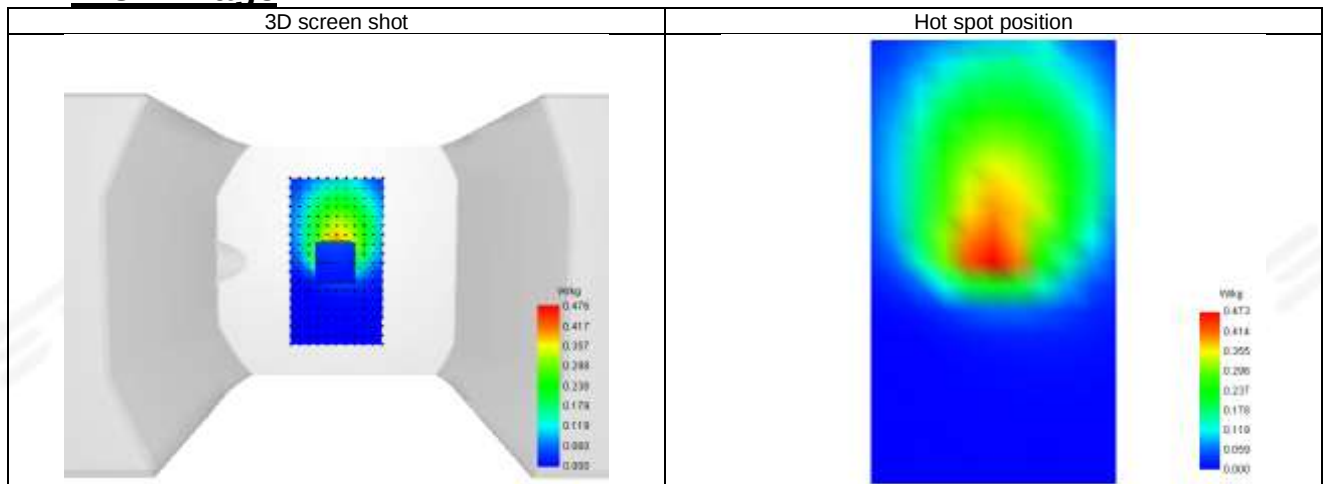
Maximum location: X=-1.00, Y=2.00 ; SAR Peak: 0.78 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.234
SAR 1g (W/Kg)	0.455
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	60.941157

**E. Z Axis Scan**

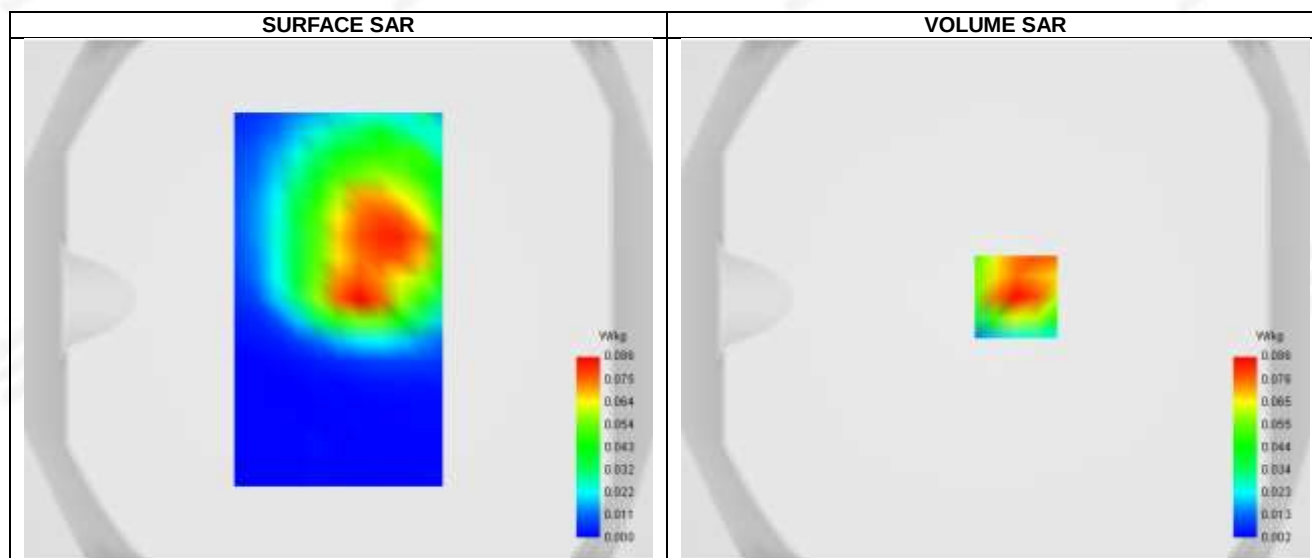
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.797	0.476	0.249	0.164	0.098	0.059	0.035

**F. 3D Image**



Plot 24: DUT: 4G/LTE MiFi Hotspot; EUT Model: MH07

Test Date	2025-05-30
ConvF	1.56
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Body
Device Position	Back
Band	LTE band 71
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	673
Relative permittivity (real part)	42.81
Conductivity (S/m)	0.85

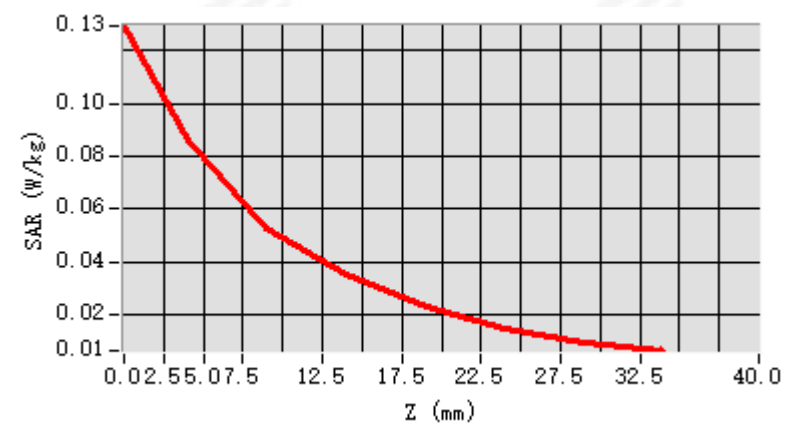
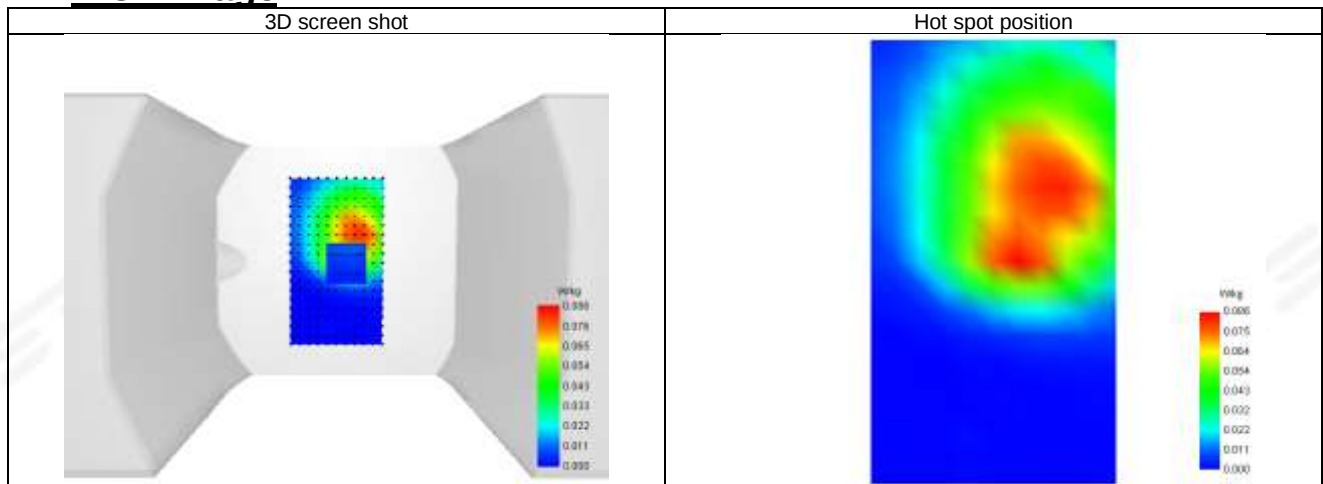


D. SAR 1g & 10g

SAR 10g (W/Kg)	0.045
SAR 1g (W/Kg)	0.082
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	67.738495

**E. Z Axis Scan**

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.129	0.086	0.053	0.035	0.023	0.015	0.010

**F. 3D Image**



Appendix C. Probe Calibration and Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※END OF THE REPORT※※※※