



° 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

2.4G WLAN

2.4GWIFI				
Mode	Channel Number	Frequency (MHz)	Conducted Power (dBm)	Output Power (mW)
802.11b	1	2412	7.85	6.10
	7	2437	7.78	6.00
	11	2462	7.72	5.92
802.11g	1	2412	6.97	4.98
	7	2437	6.04	4.02
	11	2462	6.84	4.83
802.11 n-HT20	1	2412	6.88	4.88
	7	2437	6.05	4.03
	11	2462	6.06	4.04
802.11 n-HT40	3	2422	6.20	4.17
	6	2437	6.37	4.34
	9	2452	6.67	4.65

BT

BT				
Mode	Channel Number	Frequency (MHz)	Conducted Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	2.23	1.67
	39	2441	1.62	1.45
	78	2480	1.35	1.36
$\pi/4$ -QPSK(2Mbps)	0	2402	1.66	1.47
	39	2441	1.06	1.28
	78	2480	0.80	1.20
8DPSK(3Mbps)	0	2402	1.62	1.45
	39	2441	1.02	1.26
	78	2480	0.72	1.18

BLE

BLE				
Mode	Channel Number	Frequency (MHz)	Conducted Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	-2.42	0.57
	19	2440	-2.94	0.51
	39	2480	-3.28	0.47
GFSK(2Mbps)	0	2402	-2.46	0.57
	19	2440	-3.06	0.49
	39	2480	-3.39	0.46

**5.2G WLAN**

5.2G WLAN				
Mode	Channel Number	Frequency (MHz)	Conducted Power (dBm)	Output Power (mW)
802.11a	36	5180	12.26	16.83
	40	5200	12.07	16.11
	48	5240	12.11	16.26
802.11 n-HT20	36	5180	11.06	12.76
	40	5200	11.03	12.68
	48	5240	10.98	12.53
802.11 n-HT40	38	5190	10.22	10.52
	46	5230	10.02	10.05
802.11ac-VHT20	36	5180	11.09	12.85
	40	5200	10.99	12.56
	48	5240	10.96	12.47
802.11ac-VHT40	38	5190	10.18	10.42
	46	5230	10.04	10.09
802.11ac-VHT80	42	5210	8.90	7.76

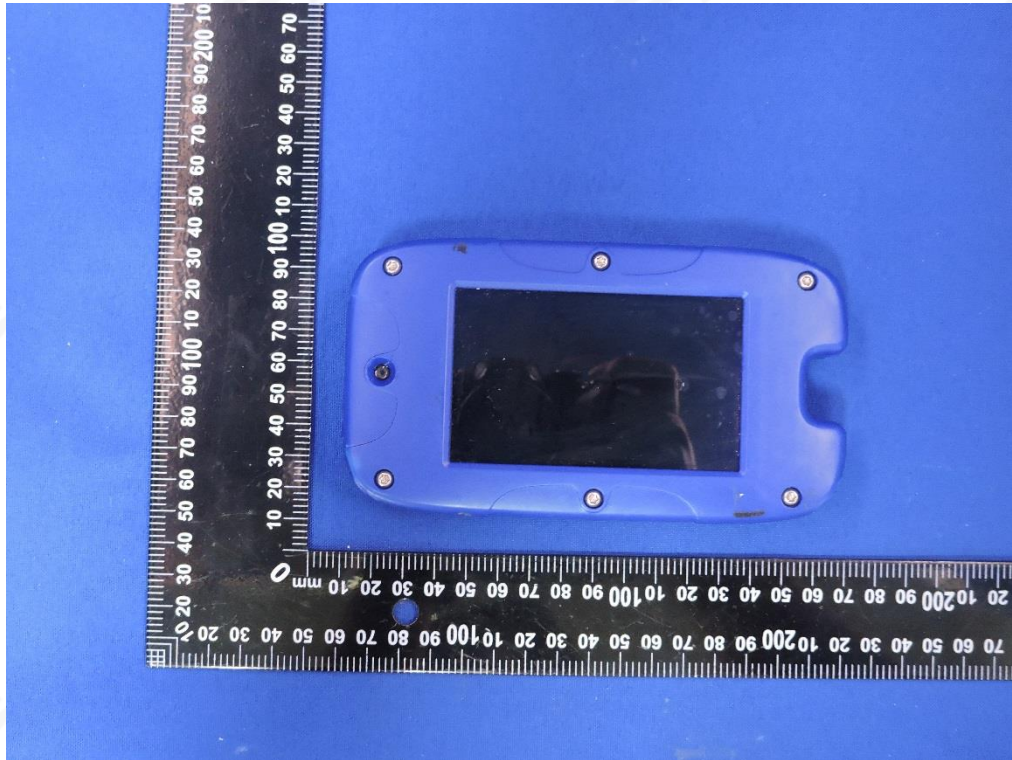
5.8G WLAN

5.8G WLAN				
Mode	Channel Number	Frequency (MHz)	Conducted Power (dBm)	Output Power (mW)
802.11a	149	5745	12.50	17.78
	157	5785	11.80	15.14
	165	5825	11.32	13.55
802.11 n-HT20	149	5745	11.37	13.71
	157	5785	10.66	11.64
	165	5825	10.23	10.54
802.11 n-HT40	151	5755	9.59	9.10
	159	5795	8.47	7.03
802.11ac-VHT20	149	5745	11.41	13.84
	157	5785	10.81	12.05
	165	5825	10.35	10.84
802.11ac-VHT40	151	5755	9.25	8.41
	159	5795	8.52	7.11
802.11ac-VHT80	155	5775	8.09	6.44

11. EUT and Test Setup Photo

11.1 EUT Photo

Front side

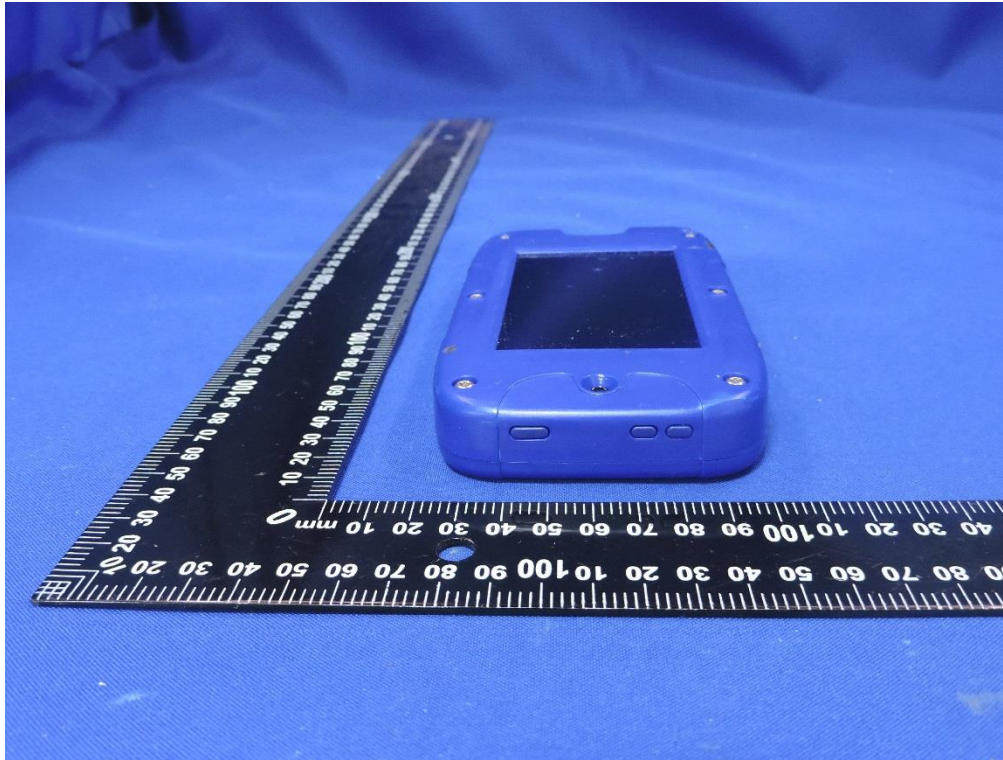


Back side

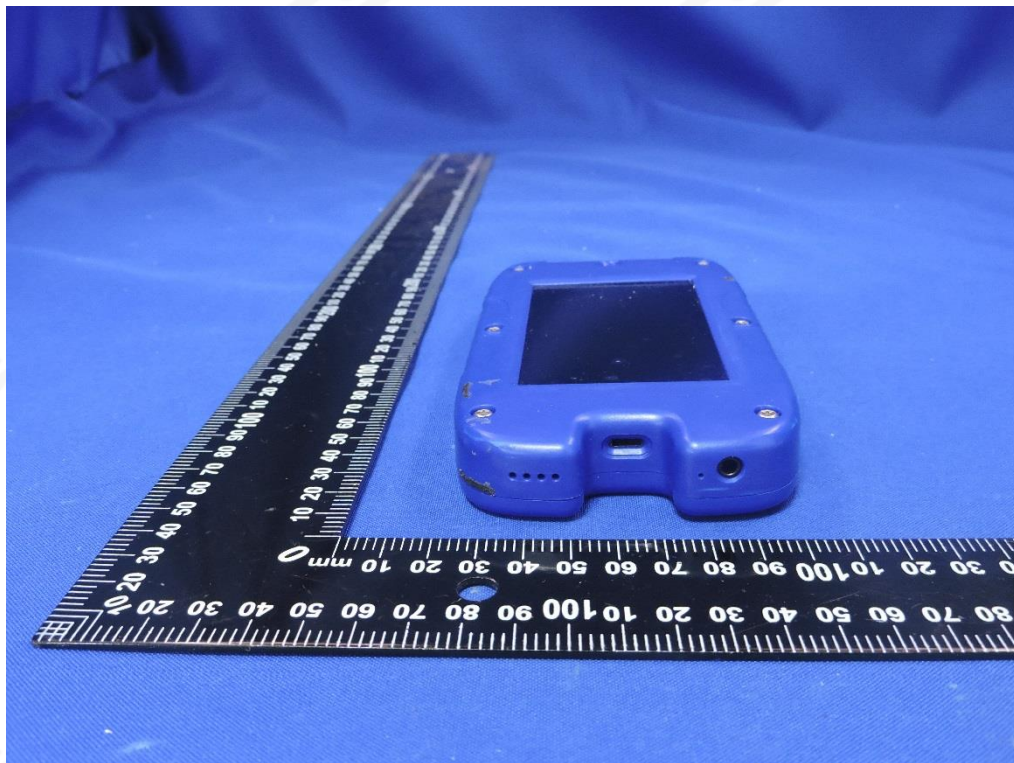




Top side



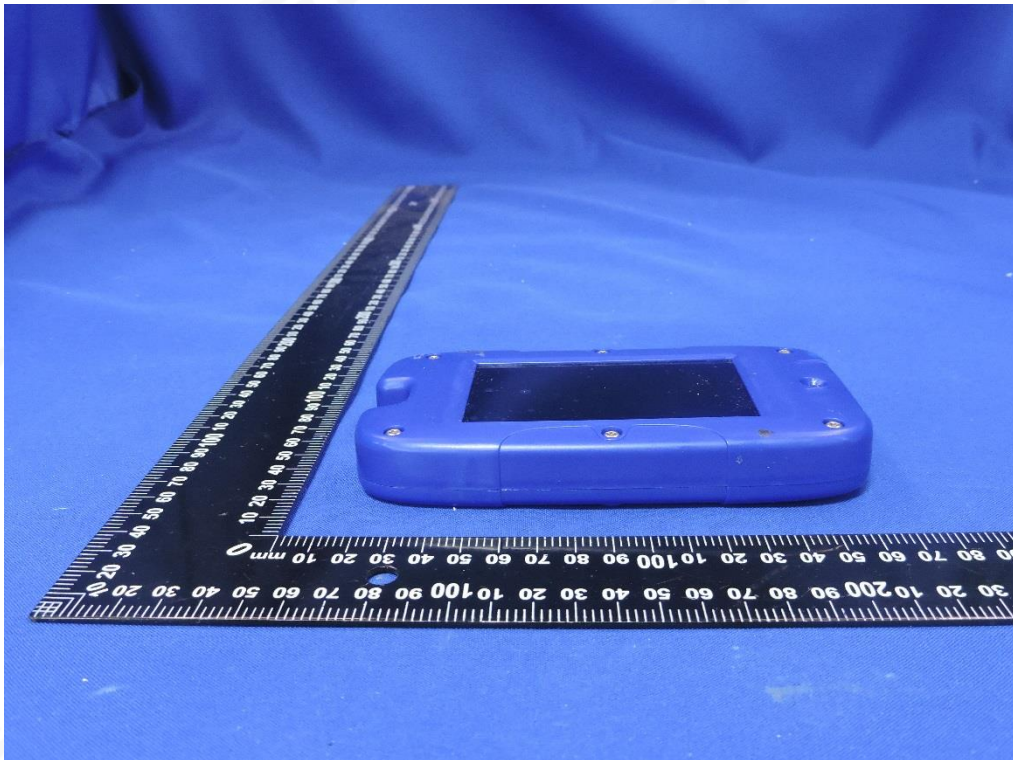
Bottom side



Left side

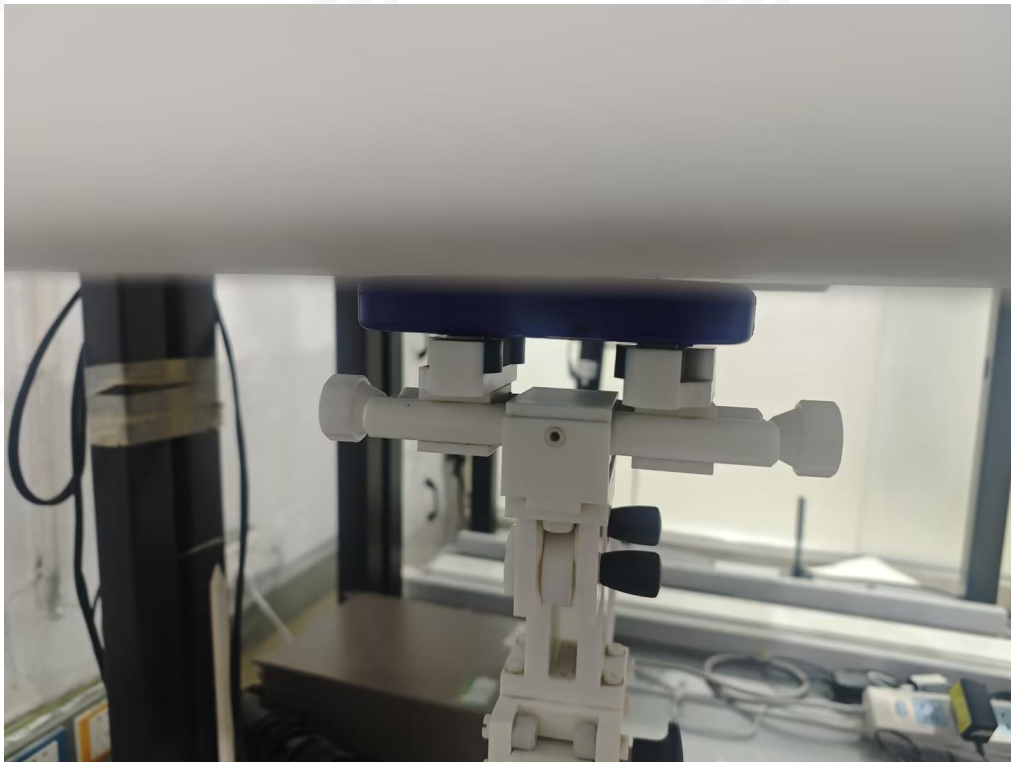


Right side

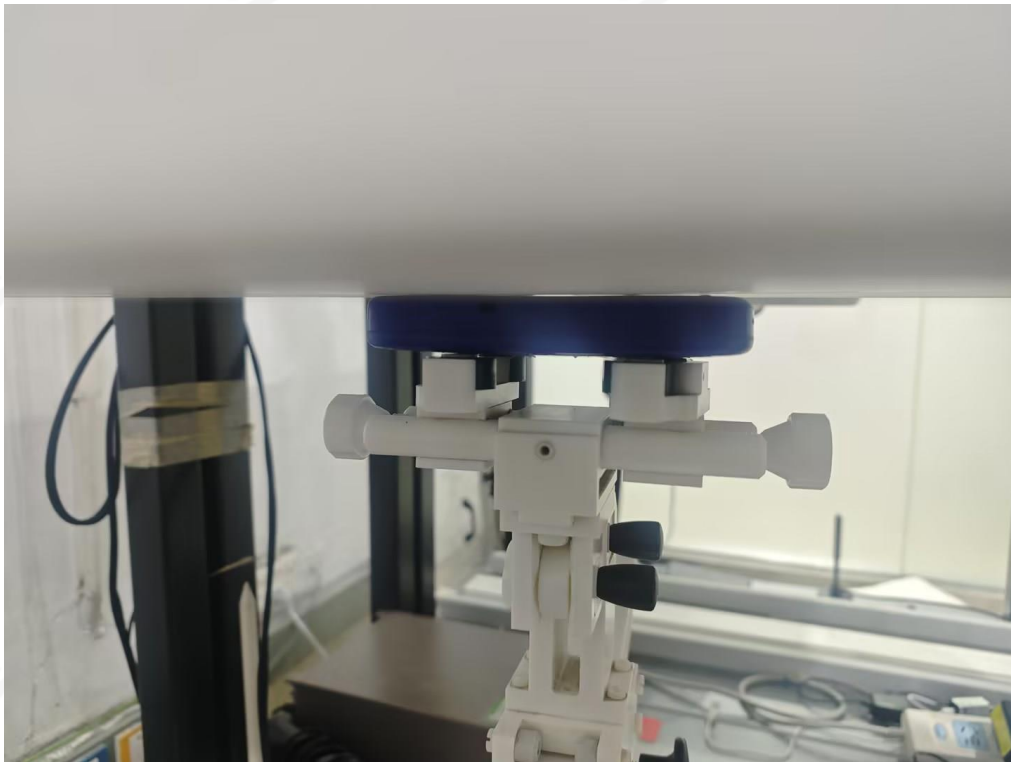


11.2 Setup Photo

Back Side (separation distance is 0mm)



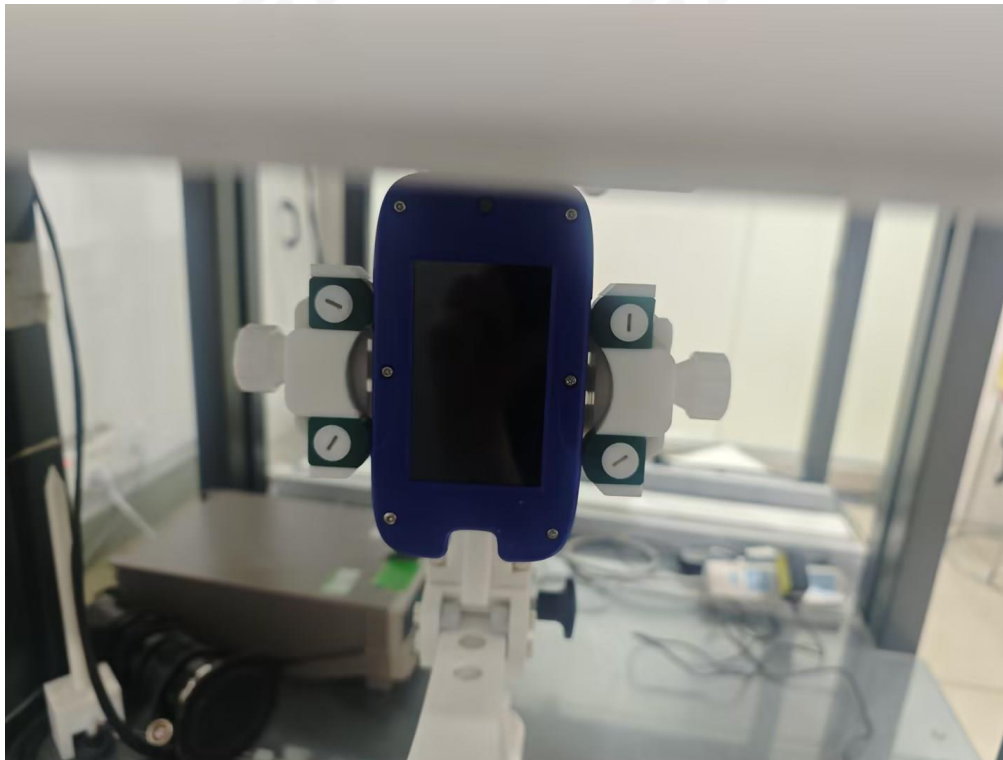
Front side(separation distance is 0mm)



Left Side (separation distance is 0mm)

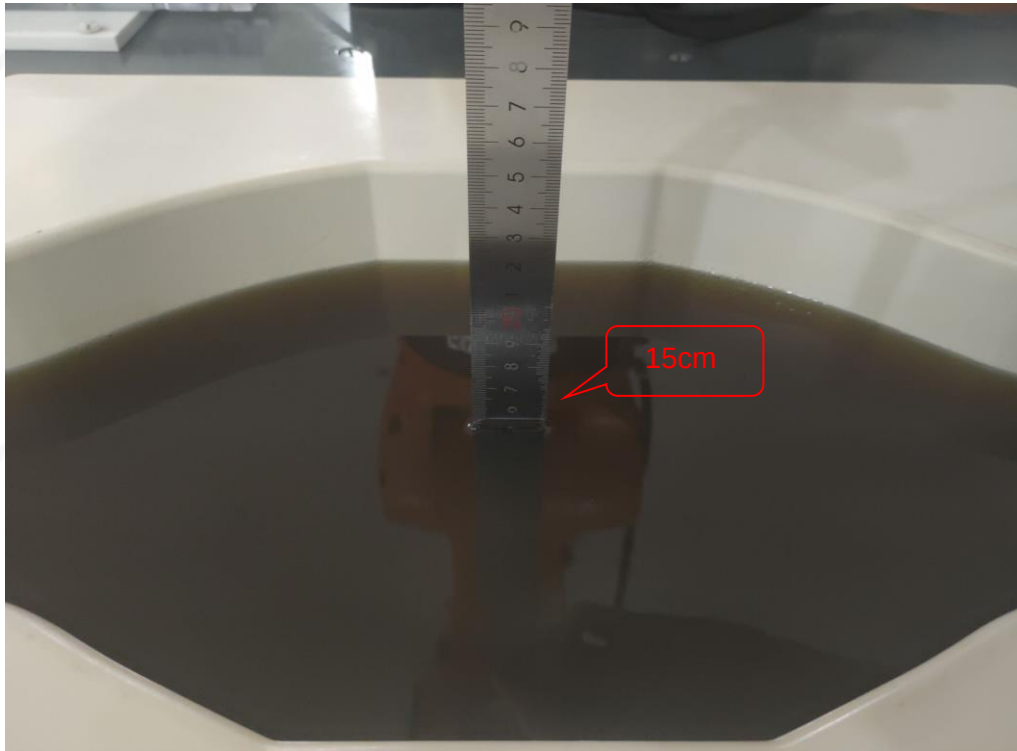


Top side(separation distance is 0mm)





Liquid depth (15 cm)





12. SAR Result Summary

12.1 Body SAR

Band	Mod.	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.
5.2GHz WLAN	802.11a	Front Side	5180	0.031	2.22	12.50	12.26	1.057	0.033	/
		Back Side	5180	0.073	-1.29	12.50	12.26	1.057	0.077	1
		Left Side	5180	0.055	-2.02	12.50	12.26	1.057	0.058	/
		Top Side	5180	0.024	-3.13	12.50	12.26	1.057	0.025	/
5.8GHz WLAN	802.11a	Front Side	5745	0.033	3.21	13.00	12.50	1.122	0.037	/
		Back Side	5745	0.079	-3.90	13.00	12.50	1.122	0.089	2
		Back Side	5785	0.061	0.68	13.00	11.80	1.318	0.080	/
		Back Side	5825	0.053	-0.67	13.00	11.32	1.472	0.078	/
		Left Side	5745	0.061	2.43	13.00	12.50	1.122	0.068	/
		Top Side	5745	0.028	-1.25	13.00	12.50	1.122	0.031	/

Note:

1. The test separation of all above table is 0mm.
2. Per KDB 447498 D04, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. 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.
 - b. Scaled SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
3. Per KDB 865664 D01, Repeated measurement is not required when the original highest measured SAR is <0.80 W/kg



13. Equipment List

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
SAR Test System	SATIMO	N/A	V5.3.15.11	N/A	N/A
Waveguide	MVG	SWG5500	SN 13/14 WGA32	2023.07.04	2026.07.03
E-Field Probe	MVG	SSE2	SN 08/21 EPGO352	2025.09.15	2026.09.14
Dielectric Probe Kit	MVG	SCLMP	SN 32/14 OCPG67	2025.09.15	2026.09.14
Antenna	MVG	ANTA3	SN 07/13 ZNTA52	N/A	N/A
Phantom1	MVG	SAM	SN 32/14 SAM115	N/A	N/A
Phantom3	MVG	SAM	SN 21/21 ELLI48	N/A	N/A
Phone holder	MVG	N/A	SN 32/14 MSH97	N/A	N/A
Laptop holder	MVG	N/A	SN 32/14 LSH29	N/A	N/A
Attenuator	Agilent	HXT-10-8-SMA	240327017	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	2025-09-26	2026-09-24
Multi Meter	Keithley	Multi Meter 2000	4050073	2025-09-22	2026-09-21
Signal Generator	Agilent	N5182A	MY50140530	2025-09-26	2026-09-25
Wireless Communication Test Set	Agilent	8960-E5515C	MY48360751	2025-02-22	2026-02-21
Wireless Communication Test Set	R&S	CMW500	156324	2025-09-25	2026-09-24
Power Amplifier	DESAY	WCS-DLNA50M8G50G1	CSKJLNA231227A	2025-09-29	2026-09-28
Power Meter	R&S	NRP	100510	2025-09-25	2026-09-24
Power Sensor	R&S	NRP-Z11	101919	2025-09-25	2026-09-24
Power Sensor	Keysight	U2021XA	MY56280002	2025-09-25	2026-09-24
Temperature hygrometer	TOPRIE	TP502V4-P	6700000124198	2025.10.09	2026.10.08
Thermograph	Elitech	RC-4	S/N EF7176501537	2025.10.17	2026.10.16



Appendix A. System Validation Plots

System Performance Check Data (5200MHz)

Type: Dipole measurement (Complete)

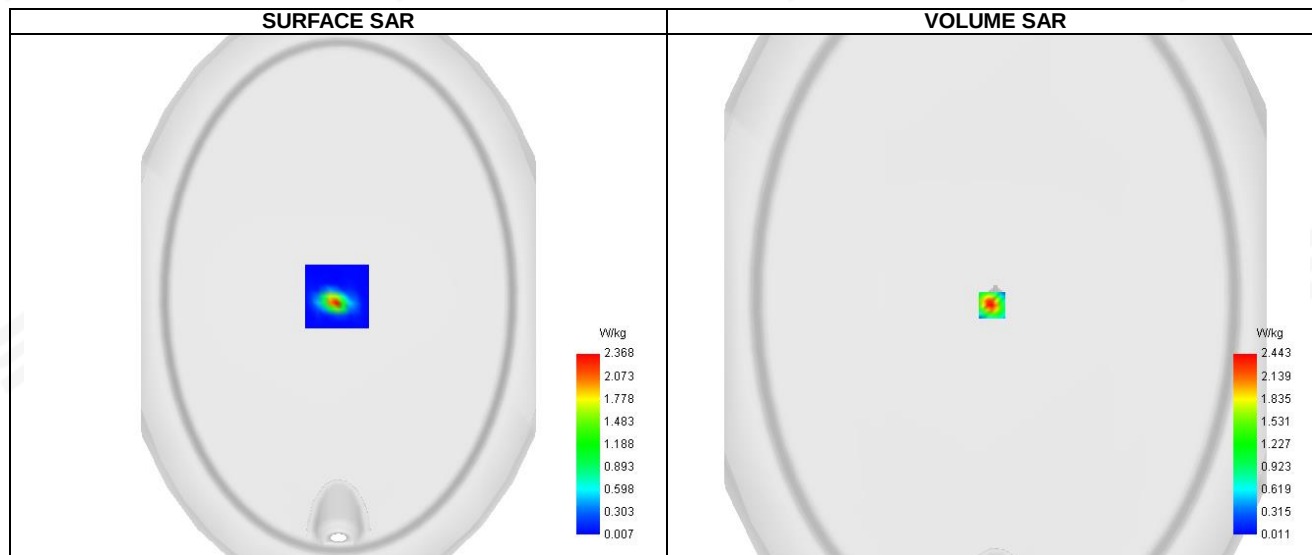
Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm

Date of measurement: 2026-02-01

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	5200MHz
Channels	Middle
Signal	CW
Frequency (MHz)	5200
Relative permittivity	37.04
Conductivity (S/m)	4.67
Probe	SN 08/21 EPGO352
ConvF	1.37
Crest factor:	1:1

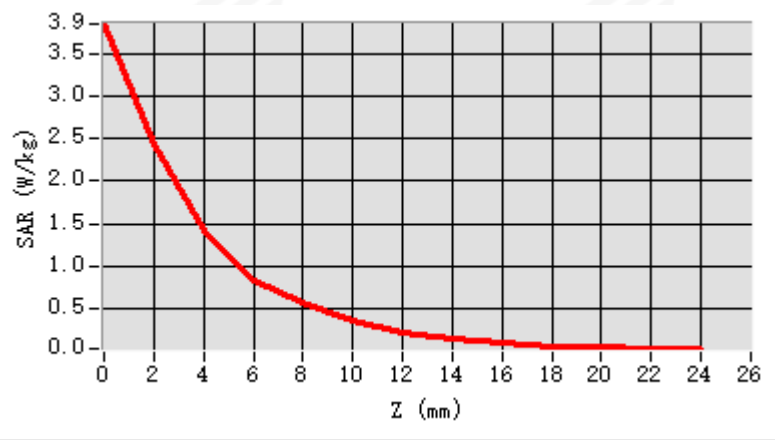


D. SAR 1g & 10g

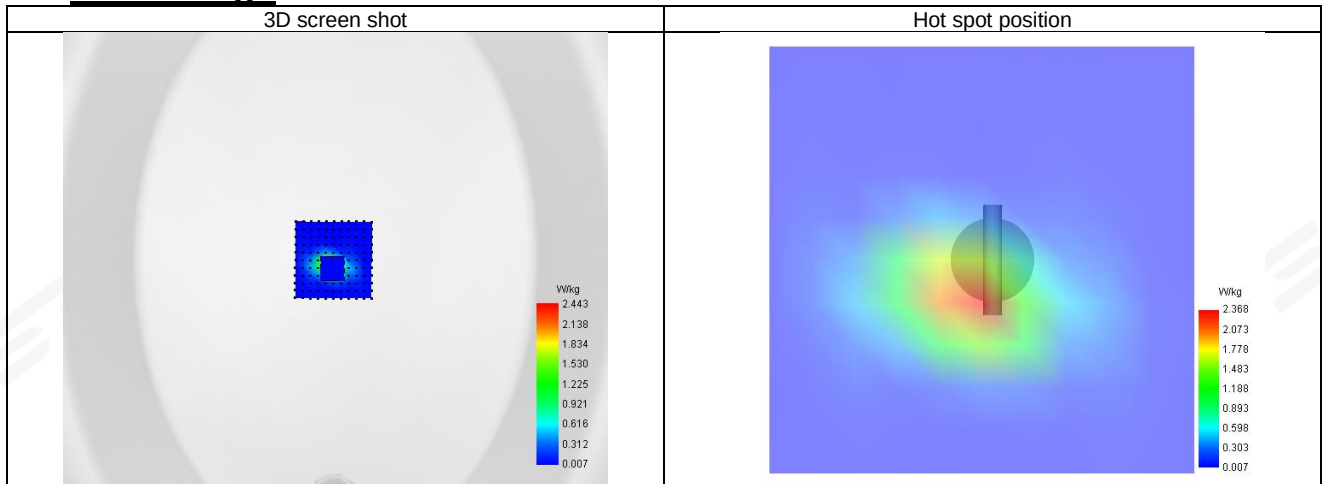
SAR 10g (W/Kg)	0.619
SAR 1g (W/Kg)	1.587
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	57.956147

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	3.859	2.443	1.416	0.816	0.564	0.351	0.219	0.136	0.085	0.053	0.033	0.020



F. 3D Image



**System Performance Check Data (5800MHz)**

Type: Dipole measurement (Complete)

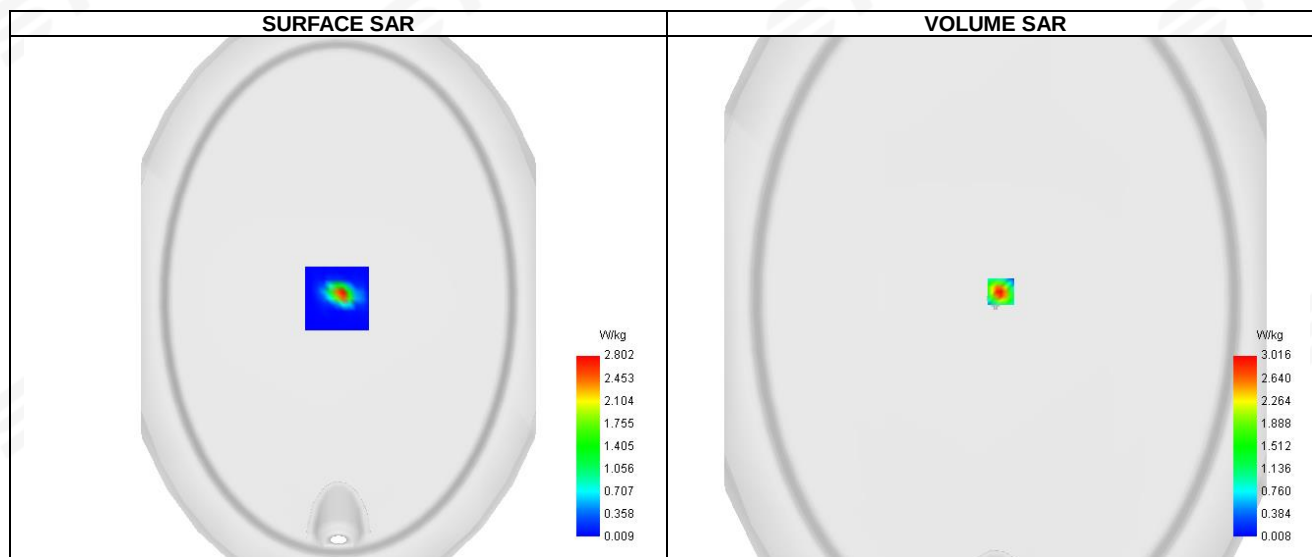
Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm

Date of measurement: 2026-02-01

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	5800MHz
Channels	Middle
Signal	CW
Frequency (MHz)	5800
Relative permittivity	36.34
Conductivity (S/m)	5.34
Probe	SN 08/21 EPGO352
ConvF	1.32
Crest factor:	1:1



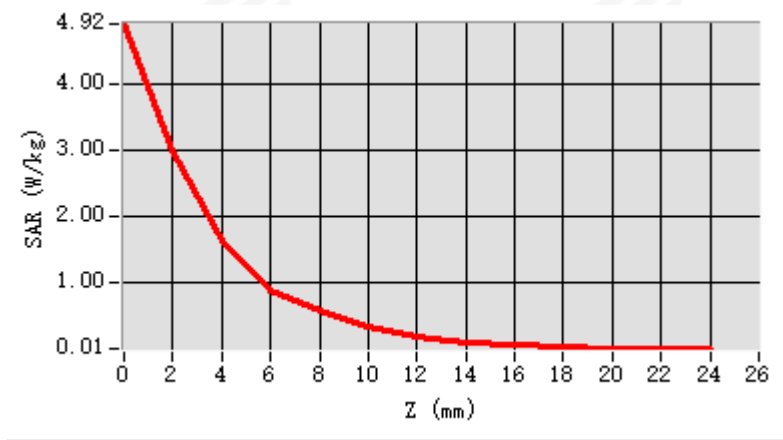
Maximum location: X=5.00, Y=6.00 ; SAR Peak: 5.28 W/kg

D. SAR 1g & 10g

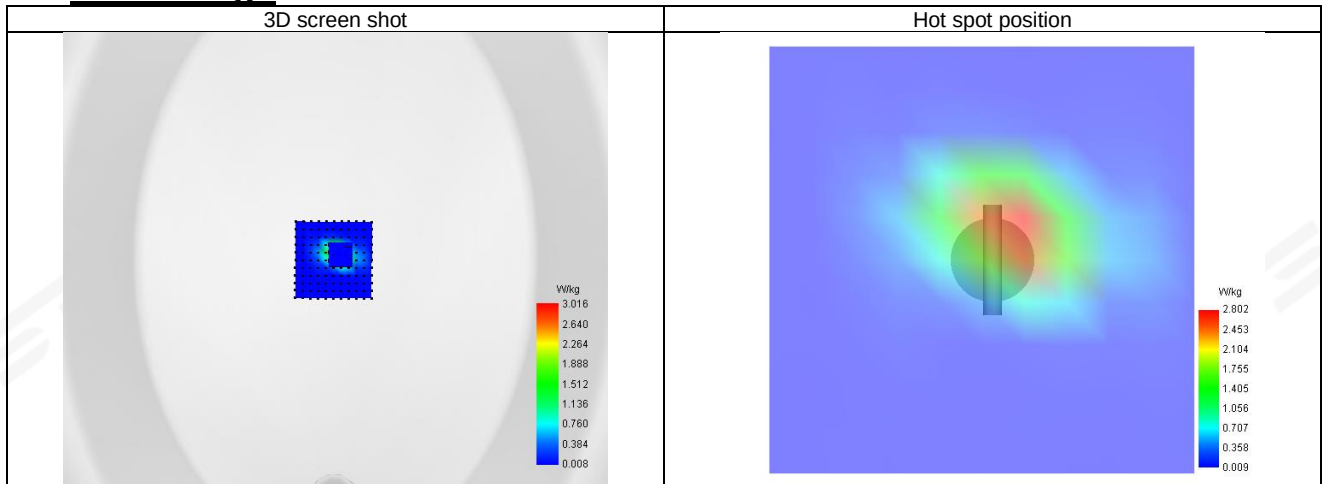
SAR 10g (W/Kg)	0.609
SAR 1g (W/Kg)	1.812
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	54.771665

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	4.924	3.016	1.652	0.881	0.576	0.336	0.196	0.114	0.067	0.039	0.023	0.013



F. 3D Image

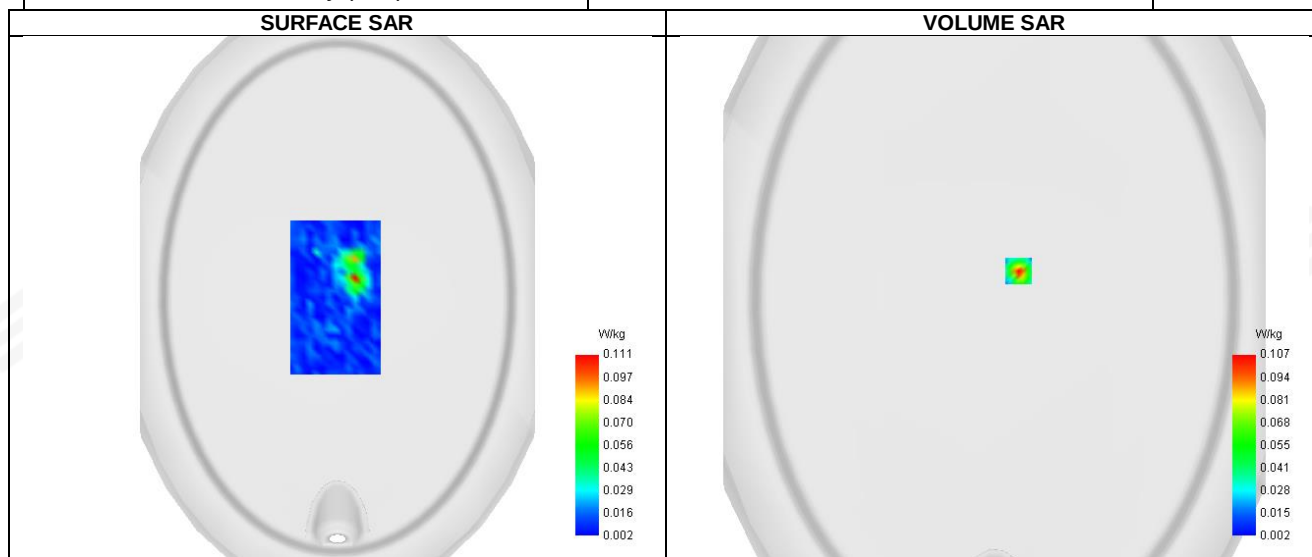




Appendix B. SAR Test Plots

Plot 1: DUT: T4-001; EUT Model: T4-001

Test Date	2026-02-01
ConvF	1.37
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2.0mm, Complete
Phantom	Validation plane
Device Position	Back Side
Band	5.2GHz WLAN
Signal	802.11a (Crest factor: 1.0)
Frequency (MHz)	5180
Relative permittivity (real part)	35.61
Conductivity (S/m)	4.66



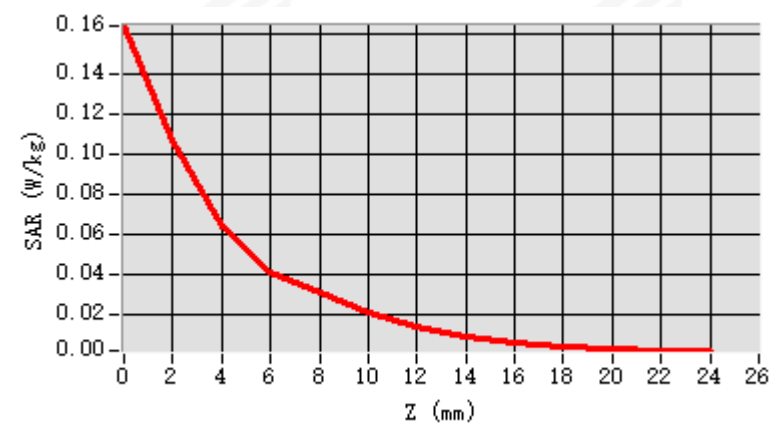
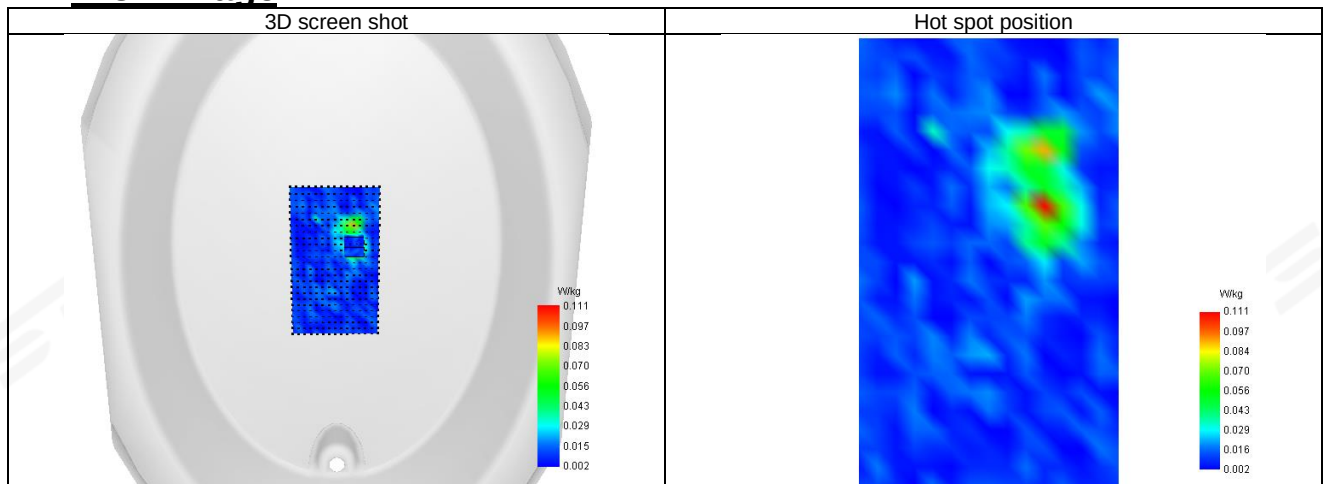
Maximum location: X=22.00, Y=24.00 ; SAR Peak: 0.20 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.029
SAR 1g (W/Kg)	0.073
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	59.594047

**E. Z Axis Scan**

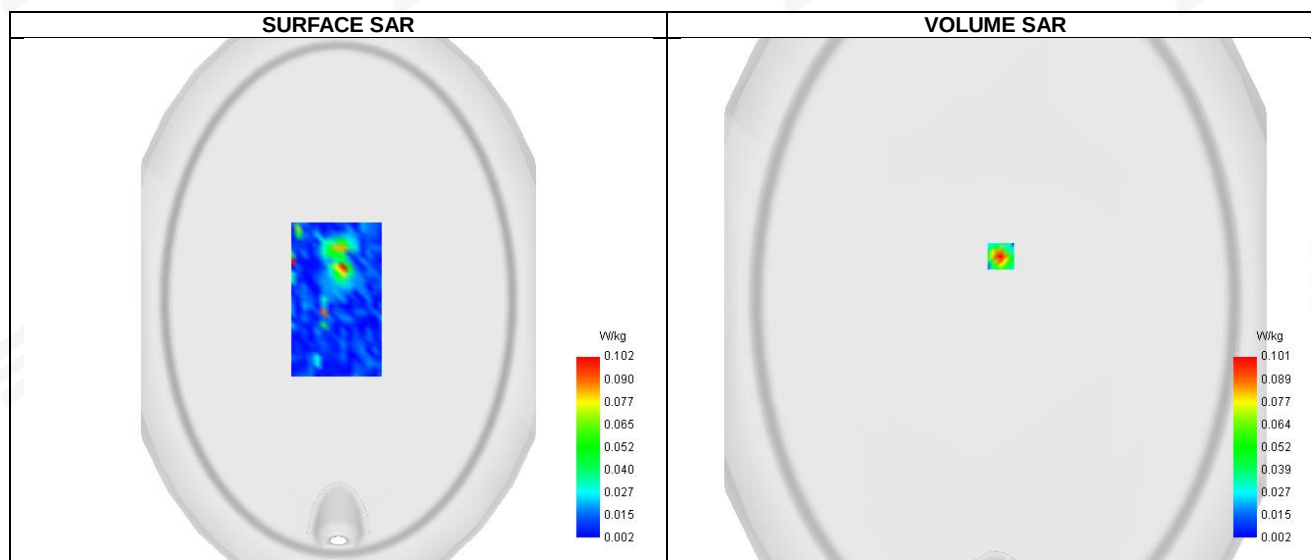
Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	0.164	0.107	0.064	0.041	0.031	0.021	0.014	0.009	0.006	0.004	0.003	0.002

**F. 3D Image**



Plot 2: DUT: T4-001; EUT Model: T4-001

Test Date	2026-02-01
ConvF	1.32
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2.0mm, Complete
Phantom	Validation plane
Device Position	Back Side
Band	5.8GHz WLAN
Signal	802.11a (Crest factor: 1.0)
Frequency (MHz)	5745
Relative permittivity (real part)	35.44
Conductivity (S/m)	5.29

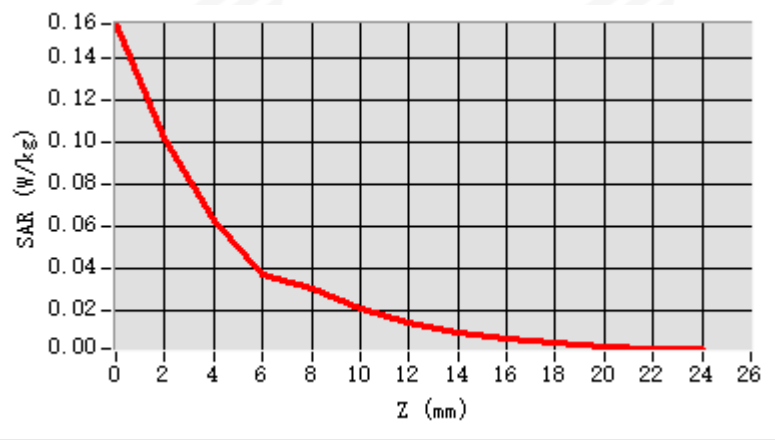


D. SAR 1g & 10g

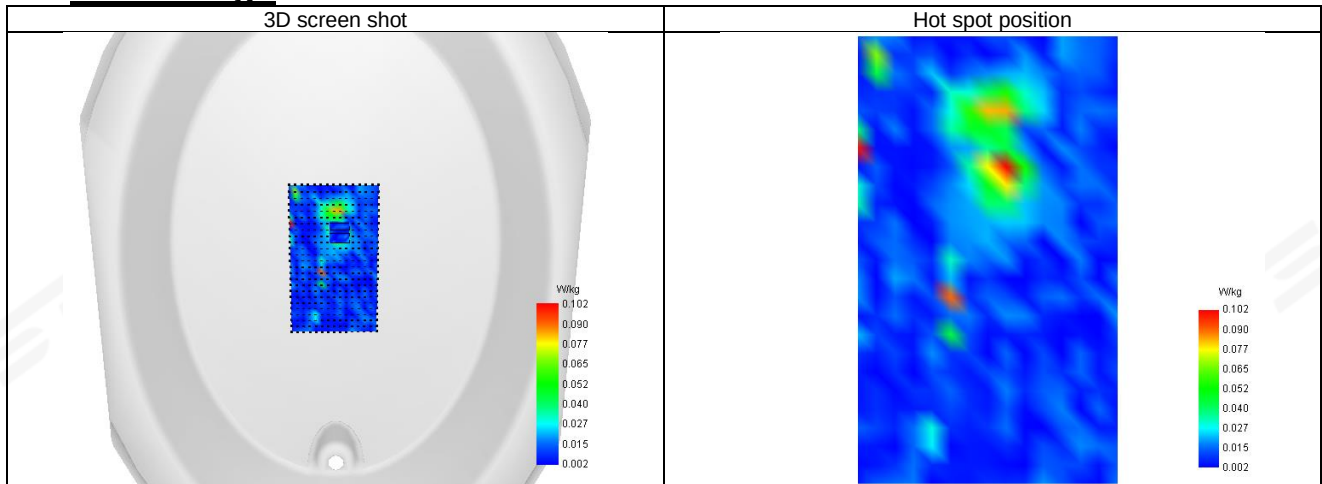
SAR 10g (W/Kg)	0.027
SAR 1g (W/Kg)	0.079
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	61.654366

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	0.156	0.101	0.063	0.037	0.030	0.021	0.014	0.010	0.007	0.005	0.003	0.002



F. 3D Image





Appendix C. Probe Calibration and Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※END OF THE REPORT※※※※