



SAR Test Report

Report No.: STS2512268H01

Issued for

Telo Communication (Shenzhen) Co., Ltd

13th Floor, Building B, Union R&D Center, No. 381
Guangshen Road, Bao'an District, Shenzhen, China.

Product Name: Smart LTE Terminal

Brand Name: TELOX

Model Name: TE320K

Series Model(s): TE320, TE310, TE320P, TE320X , TE320L

FCC ID: 2AYEZ-TE320K

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

Max. Report Face up: 0.524W/kg

SAR (1g) Back Side: 0.641 W/kg

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

**TEST REPORT CERTIFICATION**

Applicant's name : Telo Communication (Shenzhen) Co., Ltd
Address : 13th Floor, Building B, Union R&D Center, No. 381 Guangshen Road, Bao' an District, Shenzhen, China.
Manufacturer's Name : Telo Communication (Shenzhen) Co., Ltd
Address : No. 44, Hexiu West Road, Fuhai Sub-district, Bao 'an District, Shenzhen City, Guangdong Province, China

Product description

Product name : Smart LTE Terminal
Brand name : TELOX
Model name : TE320K
Series Model..... : TE320, TE310, TE320P, TE320X, TE320L
ANSI/IEEE Std. C95.1
Standards : FCC 47 CFR Part 2 (2.1093)
IEEE Std. 1528-2013

The device was tested by Shenzhen STS Test Services Co., Ltd. in accordance with the measurement methods and procedures specified in KDB 865664 The test results in this report apply only to the tested sample of the stated device/equipment. Other similar device/equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Date of Test :
Date (s) of performance of tests..... : 23 Jan. 2026~24 Jan. 2026
Date of Issue..... : 25 Jan. 2026
Test Result..... : **Pass**

Testing Engineer :

(Xin.Liu)

Technical Manager :

(Shifan. Long)

Authorized Signatory :

(Bovey Yang)





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00	25 Jan. 2026	STS2512268H01	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	Smart LTE Terminal
Brand Name	TELOX
Model Name	TE320K
Series Model	TE320, TE310, TE320P, TE320X, TE320L
Model Difference	TE320 has fewer rear camera, earpiece, and numeric keypad functions compared to TE320K; TE310 has fewer rear camera, earpiece, numeric keypad, and screen functions compared to TE320K; TE320P, TE320X, TE320L and TE320K only have different model names, but their functions are the same
Sample number	251223005-5
Battery	Model: TEB-4000 Brand: TELOX Rated Voltage: 3.8V Charge Limit Voltage: 4.35V Capacity: 4000mAh
Device Category	Portable
Product stage	Production unit
RF Exposure Environment	General Population / Uncontrolled
Hardware Version	PL21_V1.0-3
Software Version	TE320K_INT_Q_NCV2P_20251103
Frequency Range	GSM 850: 824 MHz ~ 849 MHz PCS1900: 1850 MHz ~ 1910 MHz 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 13: 777 MHz ~ 787 MHz LTE Band 17 (704-716 MHz) is covered by LTE Band 12 (699-716 MHz) LTE Band 17: 704 MHz ~ 716 MHz LTE Band 26: 814 MHz ~ 824 MHz / 824 MHz ~ 849 MHz LTE Band 41: 2555 ~ 2655 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 4 (1710-1755 MHz) is covered by LTE Band 66 (1710-1780 MHz) WLAN 802.11b/g/n/20: 2412 MHz ~ 2462 MHz WLAN 802.11a/n/20/n40: 5150 ~ 5250 MHz WLAN 802.11a/n/20/n40: 5250 ~ 5350 MHz WLAN 802.11a/n/20/n40: 5725 ~ 5850 MHz Bluetooth: 2402 MHz to 2480 MHz



Max. Reported SAR(1g): (Limit:1.6W/kg) Test distance: Face up:25mm Body:00mm	Band	Mode	Face up (W/kg)	Back Touch (W/kg)
	PCE	GSM 850	0.210	0.419
	PCE	GSM 1900	0.118	0.380
	PCE	WCDMA Band 2	0.210	0.600
	PCE	WCDMA Band 4	0.135	0.607
	PCE	WCDMA Band 5	0.254	0.625
	PCE	LTE Band 2	0.410	0.469
	PCE	LTE Band 5	0.472	0.485
	PCE	LTE Band 7	0.288	0.641
	PCE	LTE Band 12/17	0.486	0.429
	PCE	LTE Band 13	0.437	0.414
	PCE	LTE Band 41	0.108	0.238
	PCE	LTE Band 66/4	0.524	0.395
	DTS	2.4G WLAN	0.013	0.048
	DSS	BT ^{NOTE}	0.017	0.086
	NII	5.2G WLAN	0.105	0.096
	NII	5.3G WLAN	0.037	0.048
	NII	5.8G WLAN	0.059	0.130
1-g Sum SAR			0.629	0.771
FCC Equipment Class	Licensed Portable Transmitter Held to Ear (PCE) Part 15 Spread Spectrum Transmitter (DSS) Digital Transmission System (DTS) Unlicensed National Information Infrastructure TX(NII)			
Operating Mode:	GSM: GSM Voice; GPRS/EGPRS Class 12 WCDMA: RMC, HSDPA, HSUPA Release 6 LTE: QPSK, 16QAM 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 5G WLAN: 802.11a(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11ac(OFDM):BPSK,QPSK,16-QAM,64-QAM,256-QAM Bluetooth: GFSK + π /4DQPSK+8DPSK BLE: GFSK			
Antenna Specification:	GSM/WCDMA/LTE: PIFA Antenna Bluetooth: PIFA Antenna WLAN: PIFA Antenna			
SIM Card	Support dual-SIM, dual standby, the multiple SIM card with two lines cannot transmitting at the same time			
Hotspot Mode	Support			
DTM Mode	Not Support			
Note: 1. The dual SIM card mobile has 2 SIM slots and supports dual SIM dual standby. The WWAN radio transmission will be enabled by either one SIM at a time (Single active) 2. After pre-scan two SIM cards power, we found test result of the SIM1 was the worse, so we chose SIM1 card to perform all tests. 3. The EUT battery must be fully charged and checked periodically during the test to ascertain uniform power				



1.2 Test Environment

Ambient conditions in the SAR laboratory:

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

1.3 Test Factory

ShenZhen STS Test Services Co.,Ltd.

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

FCC test Firm Registration No.: 625569

IC Registration No.: 12108A

A2LA Certificate No.: 4338.01



2. Test Standards and Limits

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	IEEE Std C95.1, 2019	IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz. It specifies the maximum exposure limit of 1.6 W/kg as averaged over any 1 gram of tissue for portable devices being used within 20 cm of the user in the uncontrolled environment.
3	IEEE Std. 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
4	FCC KDB 447498 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
7	FCC KDB 941225 D01 v03r01	SAR Measurement Procedures for 3G Devices
8	FCC KDB 941225 D05 v02r05	SAR for LTE Devices
9	FCC KDB 648474 D04 v01r03	SAR Evaluation Considerations for Wireless Handsets
10	FCC KDB 248227 D01 Wi-Fi SAR v02r02	SAR Considerations for 802.11 Devices
11	FCC KDB 941225 D06 v02r01	Hotspot Mode SAR

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

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

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

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

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

Population/Uncontrolled Environments:

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

Occupational/Controlled Environments:

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

NOTE

GENERAL POPULATION/UNCONTROLLED EXPOSURE

PARTIAL BODY LIMIT

1.6 W/kg

3. SAR Measurement System

3.1 Definition of Specific Absorption Rate (SAR)

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

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

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

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

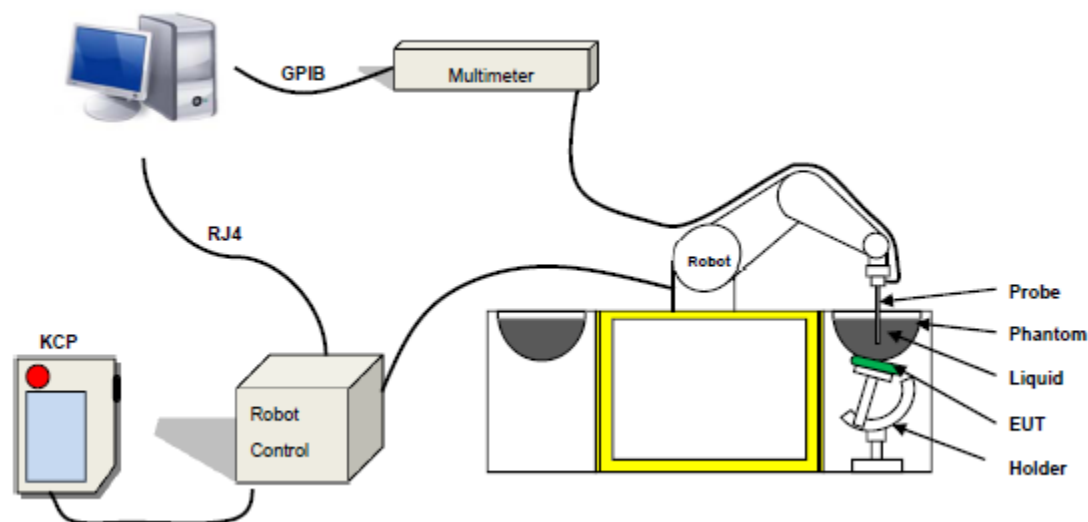
$$SAR = \frac{\sigma E^2}{\rho}$$

Where: σ is the conductivity of the tissue,

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

3.2 SAR System

MVG SAR System Diagram:



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

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

The following figure shows the system.



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

3.2.1 Probe

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

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



Figure 1-MVG COMOSAR Dosimetric E field Dipole

3.2.2 Phantom

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

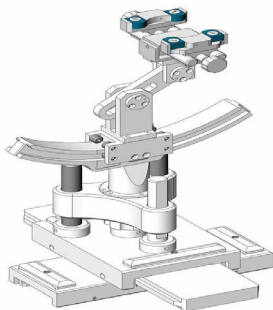
SN 32/14 SAM115



Figure-SN 21/21 ELLI48



3.2.3 Device Holder



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



4. Tissue Simulating Liquids

4.1 Simulating Liquids Parameter Check

The simulating liquids should be checked at the beginning of a series of SAR measurements to determine if the dielectric parameters are within the tolerances of the specified target values

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

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]					
2026-01-23	22.3	53	704	21.9	Permittivity	42.15	42.46	0.75	±5
					Conductivity	0.89	0.88	-0.78	±5
2026-01-23	22.3	53	707.5	21.9	Permittivity	42.13	43.10	2.31	±5
					Conductivity	0.89	0.87	-1.93	±5
2026-01-23	22.3	53	750	21.9	Permittivity	41.90	42.88	2.34	±5
					Conductivity	0.89	0.88	-1.12	±5
2026-01-23	22.3	53	782	21.9	Permittivity	41.75	41.97	0.53	±5
					Conductivity	0.89	0.90	0.70	±5
2026-01-23	22.3	53	824.2	21.9	Permittivity	41.55	41.66	0.26	±5
					Conductivity	0.90	0.89	-0.97	±5
2026-01-23	22.3	53	824.5	21.9	Permittivity	41.55	41.83	0.68	±5
					Conductivity	0.90	0.90	0.14	±5
2026-01-23	22.3	53	829	21.9	Permittivity	41.53	41.22	-0.74	±5
					Conductivity	0.90	0.90	0.08	±5
2026-01-23	22.3	53	835	21.9	Permittivity	41.50	42.36	2.07	±5
					Conductivity	0.90	0.88	-2.22	±5
2026-01-23	22.3	53	841.5	21.9	Permittivity	41.47	42.06	1.42	±5
					Conductivity	0.90	0.89	-1.20	±5
2026-01-23	22.3	53	844	21.9	Permittivity	41.46	41.21	-0.60	±5
					Conductivity	0.90	0.93	3.21	±5
2026-01-23	22.3	53	846.6	21.9	Permittivity	41.45	41.10	-0.83	±5
					Conductivity	0.90	0.89	-1.26	±5
2026-01-23	22.3	53	1712.6	21.9	Permittivity	40.12	40.62	1.23	±5
					Conductivity	1.35	1.39	2.96	±5
2026-01-23	22.3	53	1720	21.9	Permittivity	40.11	41.24	2.81	±5
					Conductivity	1.35	1.34	-1.05	±5
2026-01-23	22.3	53	1745	21.9	Permittivity	40.08	40.33	0.63	±5
					Conductivity	1.37	1.36	-0.63	±5
2026-01-23	22.3	53	1770	21.9	Permittivity	40.04	40.63	1.47	±5
					Conductivity	1.38	1.36	-1.65	±5
2026-01-23	22.3	53	1800	21.9	Permittivity	40.00	40.23	0.57	±5
					Conductivity	1.40	1.40	0.00	±5
2026-01-24	22.7	43	1850.2	22.3	Permittivity	40.00	40.16	0.40	±5
					Conductivity	1.40	1.39	-0.71	±5



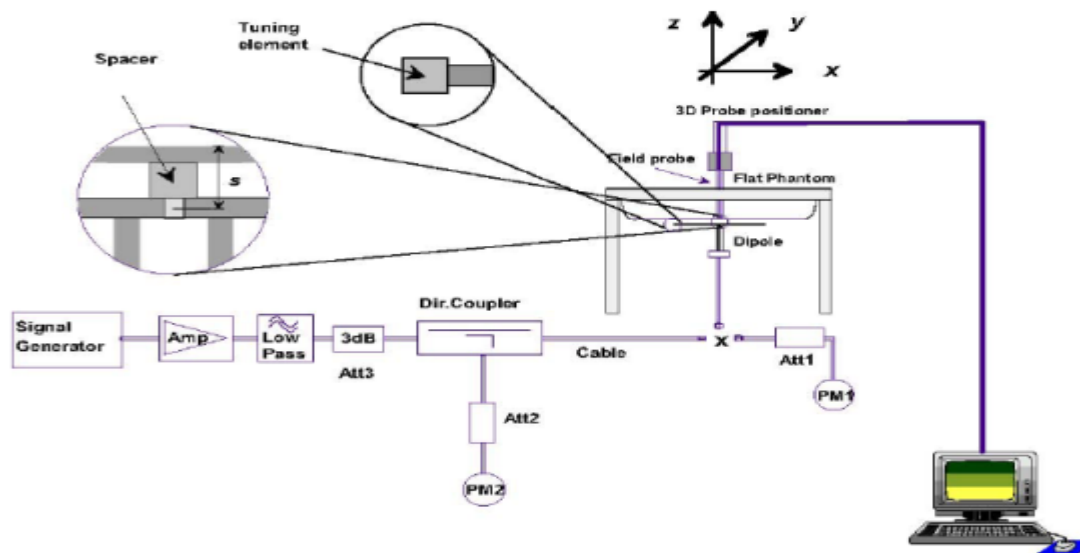
2026-01-24	22.7	43	1860	22.3	Permittivity	40.00	40.47	1.18	±5
					Conductivity	1.40	1.41	0.71	±5
2026-01-24	22.7	43	1880	22.3	Permittivity	40.00	40.12	0.30	±5
					Conductivity	1.40	1.39	-0.71	±5
2026-01-24	22.7	43	1900	22.3	Permittivity	40.00	40.60	1.50	±5
					Conductivity	1.40	1.41	0.71	±5
2026-01-24	22.7	43	1907.6	22.3	Permittivity	40.00	39.68	-0.80	±5
					Conductivity	1.40	1.39	-0.71	±5
2026-01-24	22.7	43	2450	22.3	Permittivity	39.20	39.07	-0.33	±5
					Conductivity	1.80	1.80	0.00	±5
2026-01-24	22.7	43	2462	22.3	Permittivity	39.18	39.05	-0.34	±5
					Conductivity	1.81	1.81	0.06	±5
2026-01-24	22.7	43	2510	22.3	Permittivity	39.12	39.29	0.43	±5
					Conductivity	1.86	1.85	-0.75	±5
2026-01-24	22.7	43	2535	22.3	Permittivity	39.09	39.74	1.67	±5
					Conductivity	1.89	1.89	-0.04	±5
2026-01-24	22.7	43	2560	22.3	Permittivity	39.05	39.20	0.38	±5
					Conductivity	1.92	1.92	0.14	±5
2026-01-24	22.7	43	2600	22.3	Permittivity	39.00	38.98	-0.05	±5
					Conductivity	1.96	1.99	1.53	±5
2026-01-24	22.7	43	2680	22.3	Permittivity	38.90	39.11	0.54	±5
					Conductivity	2.05	2.04	-0.39	±5
2026-01-24	22.7	43	5190	22.3	Permittivity	36.01	36.19	0.50	±5
					Conductivity	4.65	4.64	-0.20	±5
2026-01-24	22.7	43	5200	22.3	Permittivity	36.00	36.57	1.58	±5
					Conductivity	4.66	4.65	-0.21	±5
2026-01-24	22.7	43	5260	22.3	Permittivity	35.94	36.64	1.95	±5
					Conductivity	4.72	4.72	-0.06	±5
2026-01-24	22.7	43	5800	22.3	Permittivity	35.30	36.28	2.78	±5
					Conductivity	5.27	5.28	0.19	±5
2026-01-24	22.7	43	5825	22.3	Permittivity	35.28	35.00	-0.78	±5
					Conductivity	5.30	5.28	-0.31	±5

5. SAR System Validation

5.1 Validation System

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

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



5.2 Validation Result

Date	Frequency (MHz)	Power	SAR _{1g} (W/Kg)	SAR _{10g} (W/Kg)	Drift (%)	1W Target		Difference percentage		Limited %
						SAR _{1g} (W/Kg)	SAR _{10g} (W/Kg)	1g	10g	
2026-01-23	750	100 mW	0.795	0.520	-3.05	8.49	5.53	-6.36%	-5.97%	10
		Normalize to 1 Watt	7.95	5.20						
2026-01-23	835	100 mW	0.972	0.587	2.98	9.63	6.15	0.93%	-4.55%	10
		Normalize to 1 Watt	9.72	5.87						
2026-01-23	1800	100 mW	3.778	2.052	2.64	37.95	20.49	-0.45%	0.15%	10
		Normalize to 1 Watt	37.78	20.52						
2026-01-24	1900	100 mW	4.038	2.054	-2.93	39.84	20.20	1.36%	1.68%	10
		Normalize to 1 Watt	40.38	20.54						
2026-01-24	2450	100 mW	5.392	2.398	3.47	54.70	24.11	-1.43%	-0.54%	10
		Normalize to 1 Watt	53.92	23.98						
2026-01-24	2600	100 mW	5.572	2.386	2.17	56.19	24.08	-0.84%	-0.91%	10
		Normalize to 1 Watt	55.72	23.86						
2026-01-24	5200	10 mW	1.702	0.528	1.67	163.88	57.29	3.83%	-7.77%	10
		Normalize to 1 Watt	170.16	52.84						
2026-01-24	5800	10 mW	2.065	0.628	2.69	188.95	63.45	9.30%	-1.09%	10
		Normalize to 1 Watt	206.53	62.76						

Note:

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



6. SAR Evaluation Procedures

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

The following steps are used for each test position

- Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
- Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- Measurement of the SAR distribution with a grid of 8 to 16mm * 8 to 16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme.
- Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 * 32 mm is assessed by measuring 5 or 8 * 5 or 8*4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

➤ Area Scan& Zoom Scan

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

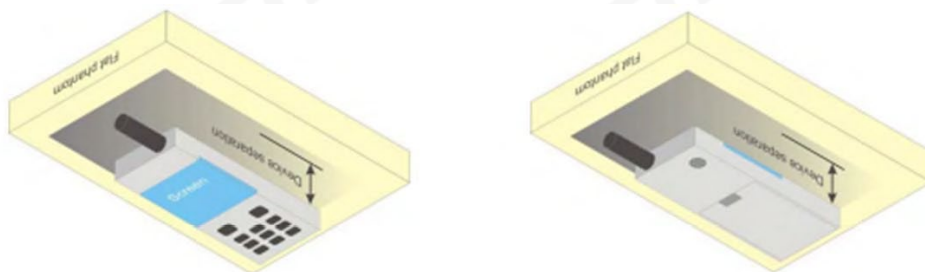
7. EUT Test Position

This EUT was tested in Face up, Back Side.

7.1 Body-worn Position Conditions

Body-worn Position Conditions:

Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in KDB Publication 447498 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.





8. Uncertainty

8.1 Measurement Uncertainty

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

SATIMO Uncertainty- SN 08/21 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 EPG0352									
System Validation uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+ - %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+- %)	10g Ui (+-%)	vi
Measurement System									
Probe calibration	E.2.1	5.72	N	1.00	1.00	1.00	5.72	5.72	∞
Axial Isotropy	E.2.2	0.18	R	1.73	1.00	1.00	0.10	0.10	∞
Hemispherical Isotropy	E.2.2	1.04	R	1.73	0.00	0.00	0.00	0.00	∞
Boundary effect	E.2.3	0.80	R	1.73	1.00	1.00	0.46	0.46	∞
Linearity	E.2.4	1.25	R	1.73	1.00	1.00	0.72	0.72	∞
System detection limits	E.2.4	1.20	R	1.73	1.00	1.00	0.69	0.69	∞
Modulation response	E.2.5	3.42	R	1.73	0.00	0.00	0.00	0.00	∞
Readout Electronics	E.2.6	0.26	N	1.00	1.00	1.00	0.26	0.26	∞
Response Time	E.2.7	0.17	R	1.73	0.00	0.00	0.00	0.00	∞
Integration Time	E.2.8	1.43	R	1.73	0.00	0.00	0.00	0.00	∞
RF ambient conditions- Noise	E.6.1	3.51	R	1.73	1.00	1.00	2.03	2.03	∞
RF ambient conditions- reflections	E.6.1	3.15	R	1.73	1.00	1.00	1.82	1.82	∞
Probe positioner mechanical tolerance	E.6.2	1.20	R	1.73	1.00	1.00	0.69	0.69	∞
Probe positioning with respect to phantom shell	E.6.3	1.40	R	1.73	1.00	1.00	0.81	0.81	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.10	R	1.73	1.00	1.00	1.21	1.21	∞
System validation source									
Deviation of experimental dipole from numerical dipole	E.6.4	4.80	N	1.00	1.00	1.00	4.80	4.80	∞
Input power and SAR drift measurement	8,6.6.4	5.10	R	1.73	1.00	1.00	2.94	2.94	∞
Dipole axis to liquid distance	8,E.6.6	2.40	R	1.73	1.00	1.00	1.39	1.39	∞
Phantom and set-up									
Phantom shell uncertainty— shape, thickness, and permittivity	E.3.1	3.70	R	1.73	1.00	1.00	2.14	2.14	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.90	N	1.00	1.00	0.84	1.90	1.60	∞
Liquid conductivity (temperature uncertainty)	E.3.3	2.40	R	1.73	0.78	0.71	1.08	0.98	∞
Liquid conductivity (measured)	E.3.3	4.10	N	1.00	0.78	0.71	3.20	2.91	M
Liquid permittivity (temperature uncertainty)	E.3.4	2.70	R	1.73	0.23	0.26	0.36	0.41	∞
Liquid permittivity (measured)	E.3.4	4.80	N	1.00	0.23	0.26	1.10	1.25	M
Combined Standard Uncertainty			RSS				9.72	9.52	
Expanded Uncertainty (95% Confidence interval)			K=2				19.44	19.03	



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



9. Conducted Power Measurement

9.1 Test Result

Burst Average Power (dBm)						
Band	GSM 850			PCS 1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880.0	1909.8
GSM(GMSK, 1-Slot)	32.83	32.79	32.63	29.05	29.10	29.28
GPRS (GMSK, 1-Slot)	32.80	32.76	32.61	29.15	29.26	29.04
GPRS (GMSK, 2-Slot)	32.18	32.13	31.95	28.56	28.56	28.32
GPRS (GMSK, 3-Slot)	30.55	30.53	30.29	26.86	26.81	26.52
GPRS (GMSK, 4-Slot)	29.51	29.48	29.25	25.78	25.73	25.41
EGPRS(8PSK, 1-Slot)	27.61	27.24	26.48	25.48	25.53	25.45
EGPRS(8PSK, 2-Slot)	25.94	26.22	25.84	25.14	23.96	24.17
EGPRS(8PSK, 3-Slot)	24.27	24.24	23.95	22.52	22.06	22.29
EGPRS(8PSK, 4-Slot)	23.26	23.19	22.82	20.90	21.28	20.72
Remark: GPRS, CS4 coding scheme. EGPRS, MCS5 coding scheme. Multi-Slot Class 8, Support Max 4 downlink, 1 uplink, 5 working link Multi-Slot Class 10, Support Max 4 downlink, 2 uplink, 5 working link Multi-Slot Class 12, Support Max 4 downlink, 4 uplink, 5 working link						

Frame- Average Power(dBm)						
Band	GSM 850			PCS 1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880.0	1909.8
GSM(GMSK, 1-Slot)	23.80	23.76	23.60	20.02	20.07	20.25
GPRS (GMSK, 1-Slot)	23.77	23.73	23.58	20.12	20.23	20.01
GPRS (GMSK, 2-Slot)	26.16	26.11	25.93	22.54	22.54	22.30
GPRS (GMSK, 3-Slot)	26.29	26.27	26.03	22.60	22.55	22.26
GPRS (GMSK, 4-Slot)	26.50	26.47	26.24	22.77	22.72	22.40
EGPRS(8PSK, 1-Slot)	18.58	18.21	17.45	16.45	16.50	16.42
EGPRS(8PSK, 2-Slot)	19.92	20.20	19.82	19.12	17.94	18.15
EGPRS(8PSK, 3-Slot)	20.01	19.98	19.69	18.26	17.80	18.03
EGPRS(8PSK, 4-Slot)	20.25	20.18	19.81	17.89	18.27	17.71
Remark : 1. SAR testing was performed on the maximum frame-averaged power mode. 2. The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum Burst - averaged power based on time slots. The calculated method is shown as below: Frame-averaged power = Burst averaged power (1 TX Slot) – 9.03 dB Frame-averaged power = Burst averaged power (2 TX Slots) – 6.02 dB Frame-averaged power = Burst averaged power (3 TX Slots) - 4.26 dB Frame-averaged power = Burst averaged power (4 TX Slots) – 3.01 dB						

**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
RMC 12.2Kbps	22.05	22.20	22.26	21.65	21.55	21.52	22.92	22.87	23.03
HSDPA Subtest-1	20.36	20.15	19.01	20.37	19.82	18.96	21.87	21.25	20.31
HSDPA Subtest-2	18.86	20.56	20.26	19.26	20.27	19.83	20.00	21.79	21.35
HSDPA Subtest-3	19.26	19.34	20.59	18.72	18.64	20.15	20.44	20.26	22.05
HSDPA Subtest-4	20.09	19.24	19.25	19.57	18.69	18.58	21.49	20.35	20.32
HSUPA Subtest-1	20.14	20.35	19.05	20.19	20.19	19.19	21.63	21.66	20.59
HSUPA Subtest-2	20.41	19.72	20.35	20.43	19.76	20.08	21.79	21.08	21.62
HSUPA Subtest-3	20.50	19.18	20.54	20.15	19.04	20.32	21.63	20.67	21.81
HSUPA Subtest-4	19.78	20.43	20.56	19.52	19.99	20.00	21.02	21.74	21.85
HSUPA Subtest-5	19.31	20.60	19.95	18.87	20.15	19.39	20.69	21.91	21.21

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.



2.4G WLAN

2.4GWIFI				
Mode	Channel Number	Frequency (MHz)	Conducted Power (dBm)	Output Power (mW)
802.11b	1	2412	15.67	36.90
	7	2437	17.27	53.33
	11	2462	17.90	61.66
802.11g	1	2412	12.40	17.38
	7	2437	17.81	60.39
	11	2462	18.39	69.02
802.11 n-HT20	1	2412	13.00	19.95
	7	2437	17.84	60.81
	11	2462	18.66	73.45

Bluetooth

BT				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	1.27	1.34
	39	2441	2.56	1.80
	78	2480	0.37	1.09
$\pi/4$ -QPSK(2Mbps)	0	2402	-0.17	0.96
	39	2441	1.41	1.38
	78	2480	-0.86	0.82
8DPSK(3Mbps)	0	2402	-0.04	0.99
	39	2441	1.51	1.42
	78	2480	-0.73	0.85

BLE

BLE				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	1.10	1.29
	19	2440	2.61	1.82
	39	2480	0.48	1.12

**WLAN (5.2Gband)**

5.2G WLAN				
Mode	Channel Number	Frequency (MHz)	Total Power (dBm)	Output Power (mW)
802.11a	36	5180	12.23	16.71
	40	5200	12.74	18.79
	48	5240	11.88	15.42
802.11 n-HT20	36	5180	12.28	16.90
	40	5200	12.35	17.18
	48	5240	12.21	16.63
802.11 n-HT40	38	5190	12.82	19.14
	46	5230	11.94	15.63

WLAN (5.3Gband)

5.3G WLAN				
Mode	Channel Number	Frequency (MHz)	Total Power (dBm)	Output Power (mW)
802.11a	52	5260	12.02	15.92
	60	5300	11.32	13.55
	64	5320	10.76	11.91
802.11 n-HT20	52	5260	12.38	17.30
	60	5300	11.16	13.06
	64	5320	10.90	12.30
802.11 n-HT40	54	5270	12.12	16.29
	62	5310	11.06	12.76

WLAN (5.8Gband)

5.8G WLAN				
Mode	Channel Number	Frequency (MHz)	Total Power (dBm)	Output Power (mW)
802.11a	149	5745	4.59	2.88
	157	5785	6.22	4.19
	165	5825	7.41	5.51
802.11 n-HT20	149	5745	4.43	2.77
	157	5785	6.16	4.13
	165	5825	7.33	5.41
802.11 n-HT40	151	5755	5.27	3.37
	159	5795	6.85	4.84



LTE Conducted Power

General Note:

1. Anritsu CMW500 base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
2. Per KDB 941225 D05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
3. Per KDB 941225 D05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
4. Per KDB 941225 D05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
5. Per KDB 941225 D05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
6. Per KDB 941225 D05, 16QAM output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05, 16QAM SAR testing is not required.
7. Per KDB 941225 D05, Smaller bandwidth output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05, smaller bandwidth SAR testing is not required.
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 Band66 (1710-1780MHz)

.LTE Band 17 (704-716 MHz) is covered by LTE Band 12(699-716MHz)



LTE Band 2

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	21.97	21.99	22.11
1.4	1	2		22.13	22.15	22.28
1.4	1	5		22.01	21.97	22.12
1.4	3	0		21.99	22.06	22.14
1.4	3	1		21.96	22.11	22.17
1.4	3	2		21.98	22.05	22.1
1.4	6	0		20.95	21.07	21.08
1.4	1	0	16-QAM	20.86	21.01	21.42
1.4	1	2		20.99	21.23	21.47
1.4	1	5		20.86	21.08	21.45
1.4	3	0		20.98	21.13	21.27
1.4	3	1		20.99	21.11	21.25
1.4	3	2		21.01	21.1	21.27
1.4	6	0		20.05	20.27	20.17
3	1	0	QPSK	22.06	22.2	22.18
3	1	7		22.39	22.39	22.51
3	1	14		22.02	22.1	22.24
3	8	0		20.98	21.12	21.14
3	8	4		21.02	21.15	21.17
3	8	7		20.99	21.12	21.13
3	15	0		20.93	21.09	21.15
3	1	0	16-QAM	21.23	21.21	21.55
3	1	7		21.67	21.57	21.68
3	1	14		21.26	21.17	21.52
3	8	0		20.01	20.17	20.11
3	8	4		20.04	20.17	20.16
3	8	7		20.04	20.16	20.1
3	15	0		19.84	19.96	20.19



LTE BAND 2

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	21.87	22.02	22.07
5	1	12		22.34	22.33	22.49
5	1	24		21.85	21.94	22.09
5	12	0		20.96	21.06	21.03
5	12	6		20.99	21.1	21.15
5	12	11		20.84	21.03	21.06
5	25	0		20.88	21.06	21.02
5	1	0	16-QAM	21.2	21.21	21.09
5	1	12		21.62	21.64	21.56
5	1	24		21.21	21.15	21.01
5	12	0		19.87	20.12	20.12
5	12	6		19.94	20.14	20.21
5	12	11		19.82	20.09	20.1
5	25	0		19.9	19.95	20.01
10	1	0	QPSK	21.9	22.07	22.07
10	1	24		22.12	22.23	22.38
10	1	49		21.99	21.96	22.15
10	25	0		21.12	21.12	21.06
10	25	12		21.07	21.15	21.15
10	25	24		20.93	21.1	21.17
10	50	0		21.03	21.13	21.14
10	1	0	16-QAM	21.13	21.15	21.19
10	1	24		21.39	21.32	21.51
10	1	49		21.24	21.02	21.17
10	25	0		20.15	20.14	20.07
10	25	12		20.1	20.07	20.17
10	25	24		19.99	20.09	20.03
10	50	0		19.98	20.09	20.02



LTE BAND 2

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	21.83	21.48	21.32
15	1	37		22.34	21.92	21.8
15	1	74		21.89	21.48	21.43
15	36	0		21.05	20.9	20.49
15	36	18		21.01	20.97	20.6
15	36	39		20.97	20.71	20.69
15	75	0		20.9	20.67	20.57
15	1	0	16-QAM	20.81	20.8	20.39
15	1	38		21.15	21.11	21
15	1	75		20.61	20.54	20.49
15	36	0		19.91	19.61	19.5
15	36	18		19.95	19.68	19.6
15	36	39		19.91	19.46	19.67
15	75	0		19.93	19.57	19.55
20	1	0	QPSK	21.65	21.9	21.14
20	1	49		22.2	22.26	21.66
20	1	99		21.77	21.73	21.29
20	50	0		21.25	21.05	20.62
20	50	24		21.08	21.07	20.62
20	50	49		21.07	20.89	20.82
20	100	0		21.17	21	20.68
20	1	0	16-QAM	20.73	20.71	20.34
20	1	49		21.29	21.18	20.91
20	1	99		20.9	20.27	20.54
20	50	0		20.2	19.98	19.62
20	50	24		20.07	20.07	19.63
20	50	49		20.07	19.59	19.8
20	100	0		20.15	19.67	19.71



LTE BAND 4

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	22.09	21.94	21.77
1.4	1	2		22.23	22.15	21.92
1.4	1	5		22.1	21.95	21.78
1.4	3	0		22.18	22.05	21.81
1.4	3	1		22.16	22.07	21.82
1.4	3	2		22.12	22.04	21.8
1.4	6	0		21.12	21.03	20.85
1.4	1	0	16-QAM	20.95	21.01	20.98
1.4	1	2		21.08	21.19	21.16
1.4	1	5		20.94	20.98	20.99
1.4	3	0		21.08	21.11	20.9
1.4	3	1		21.12	21.13	20.89
1.4	3	2		21.12	21.08	20.93
1.4	6	0		20.21	20.23	19.85
3	1	0	QPSK	22.18	22.14	21.89
3	1	7		22.38	22.57	22.22
3	1	14		22.11	22.17	21.86
3	8	0		21.13	21.11	20.87
3	8	4		21.18	21.12	20.9
3	8	7		21.16	21.08	20.89
3	15	0		21.13	21.12	20.86
3	1	0	16-QAM	21.16	21.43	21.03
3	1	7		21.42	21.71	21.28
3	1	14		21.12	21.38	21.05
3	8	0		20.18	20.04	19.89
3	8	4		20.2	20.05	19.87
3	8	7		20.14	20.05	19.87
3	15	0		19.99	20.16	19.74



LTE BAND 4

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22	21.94	21.77
5	1	12		22.32	22.38	22.15
5	1	24		21.96	21.89	21.81
5	12	0		21.08	21.04	20.77
5	12	6		21.13	21.07	20.82
5	12	11		21.04	21.04	20.75
5	25	0		21.06	21.04	20.77
5	1	0	16-QAM	21.3	21.12	20.8
5	1	12		21.64	21.54	21.13
5	1	24		21.27	21.11	20.81
5	12	0		19.98	20.07	19.82
5	12	6		20.11	20.11	19.9
5	12	11		19.97	20.03	19.84
5	25	0		20.06	19.97	19.75
10	1	0	QPSK	22	22.04	21.75
10	1	24		22.21	22.2	21.97
10	1	49		22.02	21.87	21.8
10	25	0		21.11	21.13	20.84
10	25	12		21.09	21.1	20.81
10	25	24		21.09	21.06	20.85
10	50	0		21.07	21.12	20.85
10	1	0	16-QAM	21.19	21.07	20.97
10	1	24		21.29	21.24	21.17
10	1	49		21.19	20.92	20.96
10	25	0		20.17	20.14	19.83
10	25	12		20.14	20.12	19.82
10	25	24		20.14	20.11	19.82
10	50	0		20.1	20.13	19.85



LTE BAND 4

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	21.92	22.02	21.63
15	1	37		22.26	22.45	22.01
15	1	74		21.93	21.78	21.62
15	36	0		21.14	21.11	20.81
15	36	18		21.12	21.08	20.9
15	36	39		21.09	21.02	20.86
15	75	0		21.13	21.08	20.85
15	1	0	16-QAM	20.91	20.94	20.86
15	1	38		21.29	21.33	21.4
15	1	75		20.98	20.76	20.77
15	36	0		20.05	20.06	19.72
15	36	18		20.09	20.01	19.82
15	36	39		20.06	19.93	19.77
15	75	0		20.07	20.07	19.78
20	1	0	QPSK	21.79	21.74	21.62
20	1	49		22.25	22.16	21.85
20	1	99		21.83	21.51	21.51
20	50	0		21.12	21.13	20.83
20	50	24		21.09	21.03	20.77
20	50	49		21.01	21.06	20.85
20	100	0		21.07	21.13	20.84
20	1	0	16-QAM	20.75	20.92	20.65
20	1	49		21.22	21.28	20.9
20	1	99		20.83	20.68	20.48
20	50	0		20.15	20.12	19.86
20	50	24		20.11	20.04	19.78
20	50	49		20.09	20.05	19.84
20	100	0		20.11	20.09	19.81



LTE BAND 5

LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.21	23.04	23.22
1.4	1	2		23.33	23.21	23.33
1.4	1	5		23.23	23.02	23.17
1.4	3	0		23.12	23.15	23.25
1.4	3	1		23.19	23.19	23.24
1.4	3	2		23.17	23.15	23.23
1.4	6	0		22.15	22.11	22.24
1.4	1	0	16-QAM	22.05	22.13	22.45
1.4	1	2		22.19	22.26	22.58
1.4	1	5		22.09	22.11	22.46
1.4	3	0		22.19	22.22	22.36
1.4	3	1		22.23	22.2	22.38
1.4	3	2		22.22	22.18	22.37
1.4	6	0		21.25	21.31	21.3
3	1	0	QPSK	23.23	23.29	23.33
3	1	7		23.64	23.64	23.43
3	1	14		23.21	23.29	23.29
3	8	0		22.24	22.17	22.26
3	8	4		22.23	22.22	22.3
3	8	7		22.2	22.21	22.28
3	15	0		22.16	22.19	22.29
3	1	0	16-QAM	22.26	22.55	22.45
3	1	7		22.45	22.83	22.63
3	1	14		22.32	22.5	22.49
3	8	0		21.28	21.18	21.31
3	8	4		21.28	21.16	21.35
3	8	7		21.29	21.18	21.31
3	15	0		21.06	21.25	21.21



LTE BAND 5

LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.1	23.03	23.07
5	1	12		23.55	23.53	23.35
5	1	24		23.09	23.1	23.11
5	12	0		22.11	22.1	22.25
5	12	6		22.21	22.19	22.26
5	12	11		22.07	22.13	22.18
5	25	0		22.14	22.14	22.19
5	1	0	16-QAM	22.19	22.41	22.28
5	1	12		22.52	22.79	22.62
5	1	24		22.11	22.38	22.26
5	12	0		21.17	21.07	21.28
5	12	6		21.25	21.15	21.31
5	12	11		21.15	21.08	21.23
5	25	0		21.15	21.16	21.14
10	1	0	QPSK	23.18	23.06	23.07
10	1	24		23.32	23.22	23.28
10	1	49		23.09	23.07	23.16
10	25	0		22.24	22.18	22.26
10	25	12		22.16	22.14	22.26
10	25	24		22.09	22.15	22.18
10	50	0		22.17	22.16	22.26
10	1	0	16-QAM	22.43	22.33	22.1
10	1	24		22.62	22.46	22.4
10	1	49		22.41	22.31	22.18
10	25	0		21.2	21.25	21.28
10	25	12		21.16	21.26	21.23
10	25	24		21.09	21.23	21.22
10	50	0		21.2	21.18	21.29



LTE BAND 7

LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.46	22.79	22.74
5	1	12		22.93	23.09	23.04
5	1	24		22.53	22.81	22.76
5	12	0		21.59	21.85	21.75
5	12	6		21.62	21.89	21.82
5	12	11		21.57	21.82	21.71
5	25	0		21.56	21.84	21.75
5	1	0	16-QAM	21.77	21.86	21.79
5	1	12		22.3	22.19	22.15
5	1	24		21.82	21.87	21.8
5	12	0		20.51	20.9	20.88
5	12	6		20.55	20.97	20.88
5	12	11		20.52	20.86	20.82
5	25	0		20.64	20.84	20.8
10	1	0	QPSK	22.47	22.88	22.73
10	1	24		22.78	23.04	22.94
10	1	49		22.56	22.89	22.81
10	25	0		21.63	21.99	21.82
10	25	12		21.65	21.93	21.8
10	25	24		21.64	21.9	21.77
10	50	0		21.62	21.94	21.78
10	1	0	16-QAM	21.62	21.88	21.92
10	1	24		21.93	21.98	22.18
10	1	49		21.72	21.8	22
10	25	0		20.67	20.99	20.8
10	25	12		20.68	20.92	20.78
10	25	24		20.69	20.89	20.82
10	50	0		20.69	21.02	20.87



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.35	22.73	22.66
15	1	37		22.9	23.16	23.19
15	1	74		22.48	22.76	22.72
15	36	0		21.61	22.03	21.85
15	36	18		21.73	22.03	21.88
15	36	39		21.7	21.92	21.87
15	75	0		21.68	21.99	21.83
15	1	0	16-QAM	21.54	21.74	21.47
15	1	37		21.91	22.13	22.09
15	1	74		21.62	21.66	21.64
15	36	0		20.58	20.96	20.72
15	36	18		20.63	20.95	20.79
15	36	39		20.59	20.86	20.73
15	75	0		20.69	20.98	20.86
20	1	0	QPSK	22.14	22.68	22.5
20	1	49		22.68	23.09	22.94
20	1	99		22.32	22.76	22.54
20	50	0		21.59	21.94	21.82
20	50	24		21.63	21.89	21.8
20	50	49		21.54	21.74	21.76
20	100	0		21.58	21.88	21.8
20	1	0	16-QAM	21.3	21.61	21.44
20	1	49		21.74	21.97	21.88
20	1	99		21.41	21.56	21.56
20	50	0		20.58	20.96	20.82
20	50	24		20.57	20.86	20.84
20	50	49		20.56	20.71	20.82
20	100	0		20.61	20.9	20.84



LTE BAND 12

LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	22.71	23.56	22.92
1.4	1	2		22.85	23.57	23.09
1.4	1	5		22.64	23.19	22.93
1.4	3	0		22.74	22.91	22.78
1.4	3	1		22.73	22.95	22.79
1.4	3	2		22.75	22.92	22.76
1.4	6	0		21.8	21.97	21.92
1.4	1	0	16-QAM	21.84	21.63	21.68
1.4	1	2		21.95	21.75	21.88
1.4	1	5		21.88	21.61	21.76
1.4	3	0		21.87	21.88	21.86
1.4	3	1		21.9	21.96	21.83
1.4	3	2		21.89	21.9	21.72
1.4	6	0		20.88	21.05	21.09
3	1	0	QPSK	22.95	23.05	22.87
3	1	7		23.17	23.31	23.34
3	1	14		22.82	23.01	23.02
3	8	0		21.98	21.98	21.95
3	8	4		22.01	21.98	21.97
3	8	7		21.96	21.97	21.97
3	15	0		21.93	21.94	21.95
3	1	0	16-QAM	21.79	22.05	22.06
3	1	7		22.15	22.32	22.28
3	1	14		21.96	21.99	22.07
3	8	0		21.03	20.92	21
3	8	4		21.03	20.97	21.03
3	8	7		20.98	20.95	21.03
3	15	0		20.82	21.03	20.9



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.68	22.83	22.59
5	1	12		23.02	23.12	23.07
5	1	24		22.7	22.76	22.79
5	12	0		21.89	21.86	21.93
5	12	6		21.92	21.97	21.91
5	12	11		21.88	21.9	21.94
5	25	0		21.9	21.88	21.95
5	1	0	16-QAM	21.73	21.84	22.03
5	1	12		22.26	22.22	22.35
5	1	24		21.82	21.84	21.92
5	12	0		20.91	20.9	20.92
5	12	6		20.97	21	20.89
5	12	11		20.9	20.96	20.86
5	25	0		20.87	20.86	20.96
10	1	0	QPSK	22.68	22.67	22.88
10	1	24		22.99	23.07	22.91
10	1	49		22.88	22.68	22.85
10	25	0		21.99	21.84	22.01
10	25	12		21.99	21.94	21.94
10	25	24		22.05	21.76	21.9
10	50	0		22.01	21.81	21.96
10	1	0	16-QAM	21.88	21.9	21.66
10	1	24		22.09	22.02	21.92
10	1	49		21.89	21.96	21.73
10	25	0		20.97	20.91	20.98
10	25	12		20.97	20.95	20.95
10	25	24		21.02	20.87	20.87
10	50	0		21.03	20.77	20.95



LTE BAND 13

LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.24	23.22	23.15
5	1	12		23.26	23.53	23.7
5	1	24		23.23	23.17	23.34
5	12	0		22.25	22.29	22.23
5	12	6		22.3	22.34	22.35
5	12	11		22.28	22.4	22.25
5	25	0		22.33	22.33	22.29
5	1	0	16-QAM	22.41	22.14	22.26
5	1	12		22.73	22.52	22.56
5	1	24		22.37	22.2	22.28
5	12	0		21.27	21.37	21.37
5	12	6		21.3	21.41	21.46
5	12	11		21.19	21.45	21.36
5	25	0		21.33	21.34	21.31
10	1	0	QPSK	/	23.4	/
10	1	24		/	23.52	/
10	1	49		/	23.44	/
10	25	0		/	22.49	/
10	25	12		/	22.38	/
10	25	24		/	22.53	/
10	50	0		/	22.5	/
10	1	0	16-QAM	/	22.22	/
10	1	24		/	22.31	/
10	1	49		/	22.08	/
10	25	0		/	21.5	/
10	25	12		/	21.44	/
10	25	24		/	21.57	/
10	50	0		/	21.54	/



LTE Band 17

LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.82	22.93	22.77
5	1	12		23.25	23.22	23.31
5	1	24		22.89	22.74	22.86
5	12	0		21.88	22.01	22.03
5	12	6		21.98	22.04	22.01
5	12	11		21.98	21.85	22.02
5	25	0		22	21.91	22.02
5	1	0	16-QAM	22.02	21.8	21.92
5	1	12		22.39	22.26	22.2
5	1	24		22.05	21.93	21.99
5	12	0		20.88	21.07	21.12
5	12	6		20.97	21.05	21.1
5	12	11		20.96	20.87	21.07
5	25	0		21	20.91	21.03
10	1	0	QPSK	22.85	22.97	22.99
10	1	24		23.15	23.09	22.98
10	1	49		22.85	23	22.86
10	25	0		21.97	21.96	22.06
10	25	12		22.05	22	22.07
10	25	24		21.83	21.89	21.99
10	50	0		21.89	21.94	22.06
10	1	0	16-QAM	21.75	21.99	21.92
10	1	24		21.94	22.19	22.19
10	1	49		21.85	22.01	22.03
10	25	0		20.97	20.94	21.10
10	25	12		21.03	21.02	21.10
10	25	24		20.87	20.88	21.04
10	50	0		20.92	20.97	21.05



LTE Band 26 Part 90

LTE Band 26(814-824) Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.18	23.16	22.96
1.4	1	2		23.29	23.23	23.1
1.4	1	5		23.18	23.08	22.99
1.4	3	0		23.21	23.14	23.06
1.4	3	1		23.21	23.14	23.06
1.4	3	2		23.18	23.12	23.05
1.4	6	0		22.14	22.1	22.04
1.4	1	0	16-QAM	22.49	21.97	22.06
1.4	1	2		22.6	22.11	22.18
1.4	1	5		22.47	21.96	22.03
1.4	3	0		22.36	22.13	22.1
1.4	3	1		22.34	22.15	22.11
1.4	3	2		22.35	22.11	22.08
1.4	6	0		21.25	21.22	21.25
3	1	0	QPSK	23.26	23.25	23.2
3	1	7		23.46	23.58	23.51
3	1	14		23.25	23.26	23.08
3	8	0		22.26	22.18	22.13
3	8	4		22.26	22.21	22.16
3	8	7		22.25	22.16	22.13
3	15	0		22.2	22.13	22.12
3	1	0	16-QAM	22.33	22.53	22.38
3	1	7		22.59	22.75	22.66
3	1	14		22.26	22.44	22.39
3	8	0		21.28	21.13	21.21
3	8	4		21.3	21.16	21.21
3	8	7		21.3	21.15	21.19
3	15	0		21.15	21.22	21.05



LTE Band 26(814-824) Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.61	23.05	23.13
5	1	12		24.14	23.51	23.53
5	1	24		23.53	22.97	23.05
5	12	0		22.61	22.01	22.02
5	12	6		22.72	22.18	22.14
5	12	11		22.69	22.06	22.06
5	25	0		22.69	22.1	22.13
5	1	0	16-QAM	22.98	22.25	22.16
5	1	12		23.32	22.55	22.47
5	1	24		22.88	22.14	22.11
5	12	0		21.42	21.15	21.16
5	12	6		21.4	21.22	21.25
5	12	11		21.22	21.13	21.13
5	25	0		21.18	21.07	21.12
10	1	0	QPSK	N/A	23.22	N/A
10	1	24		N/A	23.31	N/A
10	1	49		N/A	23.11	N/A
10	25	0		N/A	22.05	N/A
10	25	12		N/A	22.13	N/A
10	25	24		N/A	22.14	N/A
10	50	0		N/A	22.10	N/A
10	1	0	16-QAM	N/A	22.51	N/A
10	1	24		N/A	22.54	N/A
10	1	49		N/A	22.30	N/A
10	25	0		N/A	21.04	N/A
10	25	12		N/A	21.12	N/A
10	25	24		N/A	21.12	N/A
10	50	0		N/A	21.10	N/A



LTE Band 26 Part 22

LTE Band 26(824-849) Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.56	23.21	23.06
1.4	1	2		23.68	23.54	23.12
1.4	1	5		23.56	23.2	23.04
1.4	3	0		23.58	23.23	23.13
1.4	3	1		23.6	23.09	23.18
1.4	3	2		23.59	23.1	23.14
1.4	6	0		22.61	22.04	22.12
1.4	1	0	16-QAM	22.96	22	22.12
1.4	1	2		23	22.12	22.25
1.4	1	5		22.88	21.97	22.1
1.4	3	0		22.81	22.12	22.18
1.4	3	1		22.8	22.13	22.19
1.4	3	2		22.81	22.14	22.14
1.4	6	0		21.68	21.15	21.29
3	1	0	QPSK	23.18	23.22	23.24
3	1	7		23.43	23.48	23.48
3	1	14		23.13	23.22	23.19
3	8	0		22.16	22.14	22.19
3	8	4		22.18	22.12	22.22
3	8	7		22.14	22.14	22.18
3	15	0		22.11	22.12	22.17
3	1	0	16-QAM	22.22	22.53	22.42
3	1	7		22.54	22.8	22.71
3	1	14		22.23	22.44	22.41
3	8	0		21.22	21.1	21.24
3	8	4		21.23	21.11	21.27
3	8	7		21.17	21.1	21.24
3	15	0		21.05	21.19	21.07



LTE Band 26(824-849) Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.02	22.91	23.1
5	1	12		23.48	23.22	23.46
5	1	24		23.02	22.95	23.08
5	12	0		22.06	22	22.08
5	12	6		22.12	22.12	22.14
5	12	11		22.01	22.04	22.04
5	25	0		22.07	22.07	22.09
5	1	0	16-QAM	22.35	22.15	22.14
5	1	12		22.59	22.55	22.59
5	1	24		22.29	22.11	22.13
5	12	0		21	21.1	21.17
5	12	6		21.09	21.2	21.24
5	12	11		21	21.08	21.11
5	25	0		21.07	21.02	21.11
10	1	0	QPSK	23.1	23.01	22.98
10	1	24		23.26	23.12	23.21
10	1	49		23.07	23.01	23.06
10	25	0		22.11	22.15	22.22
10	25	12		22.06	22.09	22.17
10	25	24		22.06	22.13	22.12
10	50	0		22.09	22.09	22.19
10	1	0	16-QAM	22.36	22.2	22.01
10	1	24		22.49	22.42	22.29
10	1	49		22.3	22.24	22.14
10	25	0		21.11	21.16	21.22
10	25	12		21.09	21.17	21.18
10	25	24		21.1	21.18	21.13
10	50	0		21.11	21.12	21.18



LTE Band 26(824-849) Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.97	22.8	22.78
15	1	37		23.4	23.16	23.33
15	1	74		22.92	22.84	22.86
15	36	0		21.98	22.01	22.03
15	36	18		22.06	22.05	22.11
15	36	39		22.03	22.04	22.07
15	75	0		22.06	22.03	22.03
15	1	0	16-QAM	21.95	22.13	21.87
15	1	38		22.36	22.42	22.32
15	1	75		21.89	22.16	21.96
15	36	0		20.96	20.95	20.96
15	36	18		21.03	21.03	21.1
15	36	39		20.97	21	21.02
15	75	0		21.03	20.97	20.98



LTE Band 41

LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.75	23.39	23.83
5	1	12		24.07	23.67	24.12
5	1	24		23.74	23.38	23.84
5	12	0		22.82	22.45	22.87
5	12	6		22.9	22.47	22.98
5	12	11		22.78	22.39	22.88
5	25	0		22.81	22.42	22.87
5	1	0	16-QAM	23.1	22.38	22.89
5	1	12		23.4	22.65	23.15
5	1	24		23.14	22.4	22.9
5	12	0		21.8	21.51	22.02
5	12	6		21.86	21.55	22.12
5	12	11		21.81	21.46	21.98
5	25	0		21.88	21.38	21.93
10	1	0	QPSK	23.7	23.37	23.84
10	1	24		23.92	23.59	24.09
10	1	49		23.69	23.38	23.88
10	25	0		22.91	22.59	22.98
10	25	12		22.88	22.53	22.97
10	25	24		22.91	22.48	22.94
10	50	0		22.92	22.52	23.03
10	1	0	16-QAM	23.1	22.34	23.21
10	1	24		23.36	22.57	23.43
10	1	49		23.15	22.32	23.23
10	25	0		22	21.59	22.05
10	25	12		21.97	21.53	22.04
10	25	24		22	21.48	22.02
10	50	0		21.96	21.52	22.07



LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.6	23.26	23.83
15	1	37		23.98	23.64	24.28
15	1	74		23.56	23.22	23.79
15	36	0		22.85	22.57	23.05
15	36	18		22.89	22.57	23.06
15	36	39		22.84	22.46	23
15	75	0		22.86	22.5	23.01
15	1	0	16-QAM	23	22.21	22.87
15	1	38		23.41	22.57	23.28
15	1	75		23.04	22.21	22.84
15	36	0		21.8	21.48	21.96
15	36	18		21.85	21.49	22.01
15	36	39		21.78	21.4	21.94
15	75	0		21.87	21.46	22.04
20	1	0	QPSK	23.56	23.16	23.59
20	1	49		24.02	23.64	24.11
20	1	99		23.61	23.17	23.67
20	50	0		22.85	22.57	23.09
20	50	24		22.87	22.45	23.03
20	50	49		22.86	22.31	22.96
20	100	0		22.86	22.46	23.03
20	1	0	16-QAM	22.51	22.17	22.74
20	1	49		23.05	22.63	23.24
20	1	99		22.62	22.14	22.83
20	50	0		21.93	21.54	22.12
20	50	24		21.95	21.43	22.08
20	50	49		21.97	21.34	22.02
20	100	0		21.93	21.43	22.08



LTE Band 66

LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	22.41	22.21	21.8
1.4	1	2		22.56	22.33	21.95
1.4	1	5		22.4	22.17	21.78
1.4	3	0		22.45	22.25	21.86
1.4	3	1		22.46	22.23	21.86
1.4	3	2		22.45	22.2	21.88
1.4	6	0		21.45	21.2	20.88
1.4	1	0	16-QAM	21.63	21.01	20.81
1.4	1	2		21.75	21.19	20.99
1.4	1	5		21.6	21.01	20.77
1.4	3	0		21.56	21.21	20.96
1.4	3	1		21.57	21.23	20.95
1.4	3	2		21.56	21.22	20.9
1.4	6	0		20.47	20.29	20.04
3	1	0	QPSK	22.55	22.21	21.99
3	1	7		23.01	22.52	22.21
3	1	14		22.46	22.23	21.95
3	8	0		21.49	21.25	21.01
3	8	4		21.55	21.28	21
3	8	7		21.52	21.26	20.92
3	15	0		21.45	21.23	20.96
3	1	0	16-QAM	21.65	21.23	21.24
3	1	7		21.91	21.72	21.73
3	1	14		21.65	21.26	21.18
3	8	0		20.51	20.31	19.92
3	8	4		20.57	20.3	19.93
3	8	7		20.54	20.29	19.91
3	15	0		20.4	20.1	20.03



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.35	22.1	21.97
5	1	12		22.89	22.56	22.4
5	1	24		22.36	22.1	21.85
5	12	0		21.39	21.1	20.98
5	12	6		21.48	21.2	20.96
5	12	11		21.39	21.13	20.86
5	25	0		21.4	21.13	20.89
5	1	0	16-QAM	21.65	21.23	20.97
5	1	12		22.05	21.56	21.18
5	1	24		21.64	21.16	20.93
5	12	0		20.36	20.22	20.03
5	12	6		20.42	20.29	20.04
5	12	11		20.37	20.17	19.94
5	25	0		20.42	20.1	19.9
10	1	0	QPSK	22.37	22.16	22.02
10	1	24		22.55	22.31	22.13
10	1	49		22.33	22.08	21.84
10	25	0		21.45	21.19	21.09
10	25	12		21.49	21.22	21.01
10	25	24		21.42	21.21	20.93
10	50	0		21.45	21.2	21.04
10	1	0	16-QAM	21.54	21.19	21.21
10	1	24		21.74	21.34	21.31
10	1	49		21.56	21.1	21.09
10	25	0		20.52	20.24	20.08
10	25	12		20.55	20.22	20.01
10	25	24		20.51	20.24	19.94
10	50	0		20.47	20.26	20.07



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.36	22.07	21.93
15	1	37		22.76	22.4	22.26
15	1	74		22.38	21.96	21.64
15	36	0		21.48	21.22	21.17
15	36	18		21.49	21.27	21.1
15	36	39		21.44	21.2	20.96
15	75	0		21.43	21.23	21.08
15	1	0	16-QAM	21.23	21.28	20.98
15	1	38		21.7	21.64	21.25
15	1	75		21.32	21.13	20.73
15	36	0		20.41	20.16	20.11
15	36	18		20.42	20.2	20.07
15	36	39		20.37	20.14	19.95
15	75	0		20.42	20.17	20
20	1	0	QPSK	22.09	21.99	21.8
20	1	49		22.58	22.31	22.12
20	1	99		22.15	21.91	21.54
20	50	0		21.42	21.17	21.16
20	50	24		21.42	21.18	21.03
20	50	49		21.34	21.17	20.89
20	100	0		21.41	21.2	21.07
20	1	0	16-QAM	21.12	21.04	20.93
20	1	49		21.58	21.34	21.24
20	1	99		21.23	20.84	20.7
20	50	0		20.42	20.23	20.13
20	50	24		20.48	20.21	20.05
20	50	49		20.38	20.23	19.9
20	100	0		20.44	20.19	20.05

10. EUT and Test Setup Photo

10.1 EUT Photo

Front side



Back side



Left Edge



Right Edge



Top Edge



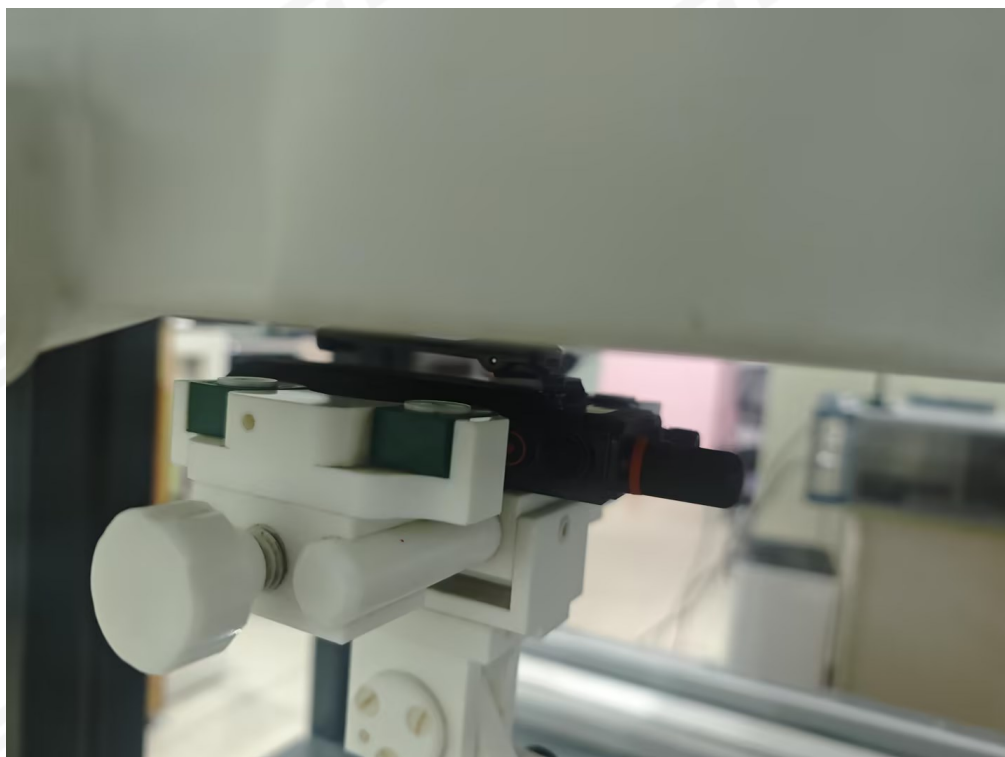
Bottom Edge



Face up (separation distance is 25mm)

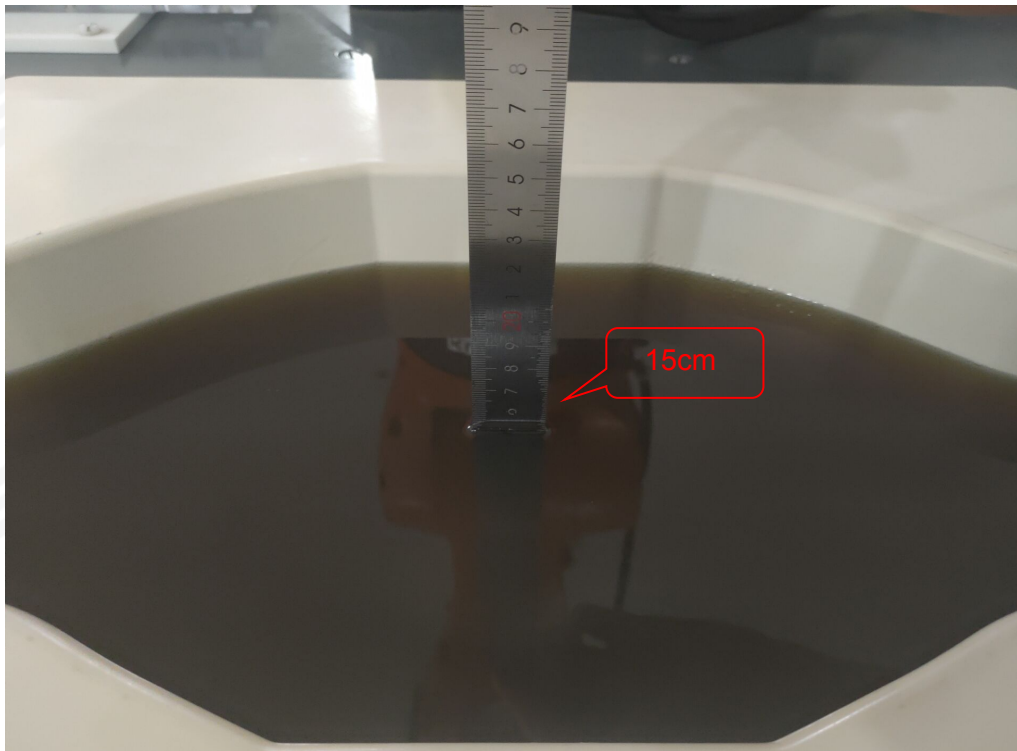


Back Touch (separation distance is 0mm)





Liquid depth (15 cm)





11. SAR Result Summary

11.1 Body SAR

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Result 1g (W/Kg)	Power Drift(%)	Max. Turn-up Power(dBm)	Meas. Output Power(dBm)	Scaling Factor	Scaled SAR (W/Kg)	Meas. No.
GSM850	N/A	GPRS Data-4 Slot	N/A	N/A	Face up	824.2	0.188	1.28	30.00	29.51	1.119	0.210	1
					Back Touch	824.2	0.374	0.45	30.00	29.51	1.119	0.419	2
					Face up	1850.2	0.112	-2.31	26.00	25.78	1.052	0.118	3
GSM1900	N/A	GPRS Data-4 Slot	N/A	N/A	Back Touch	1850.2	0.361	3.12	26.00	25.78	1.052	0.380	4
					Face up	1907.6	0.199	-0.97	22.50	22.26	1.057	0.210	5
WCDMA Band 2	N/A	RMC	N/A	N/A	Back Touch	1907.6	0.568	-1.39	22.50	22.26	1.057	0.600	6
					Face up	1712.6	0.125	-2.68	22.00	21.65	1.084	0.135	7
WCDMA Band 4	N/A	RMC	N/A	N/A	Back Touch	1712.6	0.56	1.05	22.00	21.65	1.084	0.607	8
					Face up	846.6	0.228	0.13	23.50	23.03	1.114	0.254	9
WCDMA Band 5	N/A	RMC	N/A	N/A	Back Touch	846.6	0.561	0.57	23.50	23.03	1.114	0.625	10
					Face up	2462	0.013	-1.89	18.00	17.90	1.023	0.013	11
2.4GHz WLAN	N/A	802.11b	N/A	N/A	Back Touch	2462	0.047	0.55	18.00	17.90	1.023	0.048	12
					Face up	5190	0.101	-1.25	13.00	12.82	1.042	0.105	13
5.2GHz WLAN	N/A	802.11 n-HT40	N/A	N/A	Back Touch	5190	0.092	-3.50	13.00	12.82	1.042	0.096	14
					Face up	5260	0.036	-0.28	12.50	12.38	1.028	0.037	15
5.8GHz WLAN	N/A	802.11 n-HT20	N/A	N/A	Back Touch	5260	0.047	-3.96	12.50	12.38	1.028	0.048	16
					Face up	5825	0.058	-3.84	7.50	7.41	1.021	0.059	17
LTE Band 2	20M	QPSK	1	49	Back Touch	5825	0.127	3.27	7.50	7.41	1.021	0.130	18
					Face up	1880	0.388	1.52	22.50	22.26	1.057	0.410	19
					Face up	1860	0.356	-1.89	21.50	21.25	1.059	0.377	/
					Back Touch	1860	0.444	3.91	22.50	22.26	1.057	0.469	20
					Back Touch	1880	0.415	2.91	21.50	21.25	1.059	0.440	/
LTE Band 5	10M	QPSK	1	24	Face up	829	0.453	-1.98	23.50	23.32	1.042	0.472	21
					Back Touch	844	0.433	-2.55	22.50	22.26	1.057	0.458	/
					Face up	829	0.465	-2.04	23.50	23.32	1.042	0.485	22
					Back Touch	844	0.412	-3.49	22.50	22.26	1.057	0.435	/
					Face up	2535	0.262	3.30	23.50	23.09	1.099	0.288	23
LTE Band 7	10M	QPSK	1	49	Face up	2535	0.239	2.76	22.00	21.94	1.014	0.242	/
					Back Touch	2510	0.515	0.98	23.50	22.68	1.208	0.622	/
					Back Touch	2535	0.583	3.49	23.50	23.09	1.099	0.641	24
					Back Touch	2560	0.526	-0.28	23.50	22.94	1.138	0.598	/
					Back Touch	2535	0.498	-1.23	22.00	21.94	1.014	0.505	/
					Face up	707.5	0.440	1.59	23.50	23.07	1.104	0.486	25
					Face up	704	0.415	1.35	22.50	22.05	1.109	0.460	/
LTE Band 12&17	10M	QPSK	1	24	Back Touch	707.5	0.389	3.98	23.50	23.07	1.104	0.429	26
					Back Touch	704	0.366	-3.52	22.50	22.05	1.109	0.406	/
					Face up	782	0.391	2.89	24.00	23.52	1.117	0.437	27
					Face up	782	0.348	-3.28	23.00	22.53	1.114	0.388	/
LTE Band 13	10M	QPSK	1	24	Back Touch	782	0.312	-1.04	24.00	23.52	1.117	0.348	28
					Back Touch	782	0.285	-2.06	23.00	22.53	1.114	0.318	/
					Face up	824.5	0.460	-0.66	23.50	23.40	1.023	0.471	29
					Face up	841.5	0.425	-0.50	22.50	22.11	1.094	0.465	/
LTE Band 26	15M	QPSK	1	37	Back Touch	824.5	0.405	3.74	23.50	23.40	1.023	0.414	30
					Back Touch	841.5	0.372	-0.89	22.50	22.11	1.094	0.407	/
					Face up	2680	0.099	-0.01	24.50	24.11	1.094	0.108	31
					Face up	2680	0.085	2.18	23.50	23.09	1.099	0.093	/
LTE Band 41	20M	QPSK	1	0	Back Touch	2680	0.218	3.33	24.50	24.11	1.094	0.238	32
					Back Touch	2680	0.201	3.88	23.50	23.09	1.099	0.221	/
					Face up	1720	0.476	-1.92	23.00	22.58	1.102	0.524	33
					Face up	1745	0.433	-0.83	23.00	22.31	1.172	0.508	/
LTE Band 66&4	20M	QPSK	1	0	Face up	1770	0.418	-1.07	23.00	22.12	1.225	0.512	/
					Face up	1720	0.396	-1.68	22.50	21.42	1.282	0.508	/
					Back Touch	1720	0.359	-1.17	23.00	22.58	1.102	0.395	34
					Back Touch	1720	0.302	2.24	22.50	21.42	1.282	0.387	/
					Back Touch	1720	0.302	2.24	22.50	21.42	1.282	0.387	/

Note:

1. Per KDB 865664 D01,for each frequency band ,repeated SAR measurement is required only when the measured SAR is $\geq 0.8\text{W/Kg}$.
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 $< 1.45\text{W/Kg}$, 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 $\geq 1.45\text{W/Kg}$.
4. The ratio is the difference in percentage between original and repeated measured SAR.



12.3 Simultaneous Multi-band Transmission Evaluation

Application Simultaneous Transmission information:

Position	Simultaneous State
Head	1. GSM + 2.4GHz WLAN/5G WLAN
	2. GSM + Bluetooth
	3. WCDMA + 2.4GHz WLAN/5G WLAN
	4. WCDMA + Bluetooth
	5. LTE + 2.4GHz WLAN/5G WLAN
	6. LTE + Bluetooth
Body	1. GSM + 2.4GHz WLAN/5G WLAN
	2. GSM + Bluetooth
	3. WCDMA + 2.4GHz WLAN/5G WLAN
	4. WCDMA + Bluetooth
	5. LTE + 2.4GHz WLAN/5G WLAN
	6. LTE + Bluetooth

NOTE:

1. Bluetooth and WLAN can't simultaneous transmission at the same time.
2. For simultaneous transmission at head and body exposure position, 2 transmitters simultaneous transmission was the worst state.
3. If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.
4. KDB 447498 / 4.3.2 (2) when standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion: a) (max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[√f (GHz) /x] W/kg for test separation distances ≤ 50 mm; Where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR. b) 0.4W/Kg for 1-g SAR and 1.0W/Kg for 10-g SAR, when the separation distance is >50mm.

Estimated SAR		Maximum Average Power		Dis.	Frequency (GHz)	Stand alone SAR(1g) [W/kg]
		dBm	mW			
BT	Face up	3	1.995	25	2.441	0.017
	Back Touch			5	2.441	0.083



Simultaneous Mode	Position	Mode	Max. 1-g SAR	1-g Sum SAR
			(W/kg)	(W/kg)
GSM + 2.4G WLAN	Face up	GSM	0.210	0.223
		2.4G WLAN	0.013	
	Back Touch	GSM	0.419	0.467
		2.4G WLAN	0.048	
GSM + Bluetooth	Face up	GSM	0.210	0.227
		Bluetooth	0.017	
	Back Touch	GSM	0.419	0.502
		Bluetooth	0.083	
GSM + 5G WLAN	Face up	GSM	0.210	0.315
		5G WLAN	0.105	
	Back Touch	GSM	0.419	0.549
		5G WLAN	0.130	
WCDMA + 2.4G WLAN	Face up	WCDMA	0.254	0.267
		2.4G WLAN	0.013	
	Back Touch	WCDMA	0.625	0.673
		2.4G WLAN	0.048	
WCDMA + Bluetooth	Face up	WCDMA	0.254	0.271
		Bluetooth	0.017	
	Back Touch	WCDMA	0.625	0.708
		Bluetooth	0.083	
WCDMA + 5G WLAN	Face up	WCDMA	0.254	0.359
		5G WLAN	0.105	
	Back Touch	WCDMA	0.625	0.755
		5G WLAN	0.130	
LTE + 2.4G WLAN	Face up	LTE	0.524	0.537
		2.4G WLAN	0.013	
	Back Touch	LTE	0.641	0.689
		2.4G WLAN	0.048	
LTE + Bluetooth	Face up	LTE	0.524	0.541
		Bluetooth	0.017	
	Back Touch	LTE	0.641	0.724
		Bluetooth	0.083	
LTE + 5G WLAN	Face up	LTE	0.524	0.629
		5G WLAN	0.105	
	Back Touch	LTE	0.641	0.771
		5G WLAN	0.130	

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.



12. Equipment List

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
SAR Test System	SATIMO	N/A	V5.3.15.11	N/A	N/A
750MHz Dipole	MVG	SID750	SN 30/14 DIP0G750-331	2023.07.04	2026.07.03
835MHz Dipole	MVG	SID835	SN 30/14 DIP0G835-332	2023.07.04	2026.07.03
1800MHz Dipole	MVG	SID1800	5023-DIP1G800-747	2023.12.20	2026.12.19
1900MHz Dipole	MVG	SID1900	SN 30/14 DIP1G900-333	2023.09.14	2026.09.13
2450MHz Dipole	MVG	SID2450	SN 30/14 DIP2G450-335	2023.07.04	2026.07.03
2600MHz Dipole	MVG	SID2600	SN 30/14 DIP2ROCK 300-336	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 EPG0352	2025.09.15	2026.09.14
Dielectric Probe Kit	MVG	SCLMP	SN 32/14 OCPROCK 37	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 (750MHz)

Type: Phone measurement (Complete)

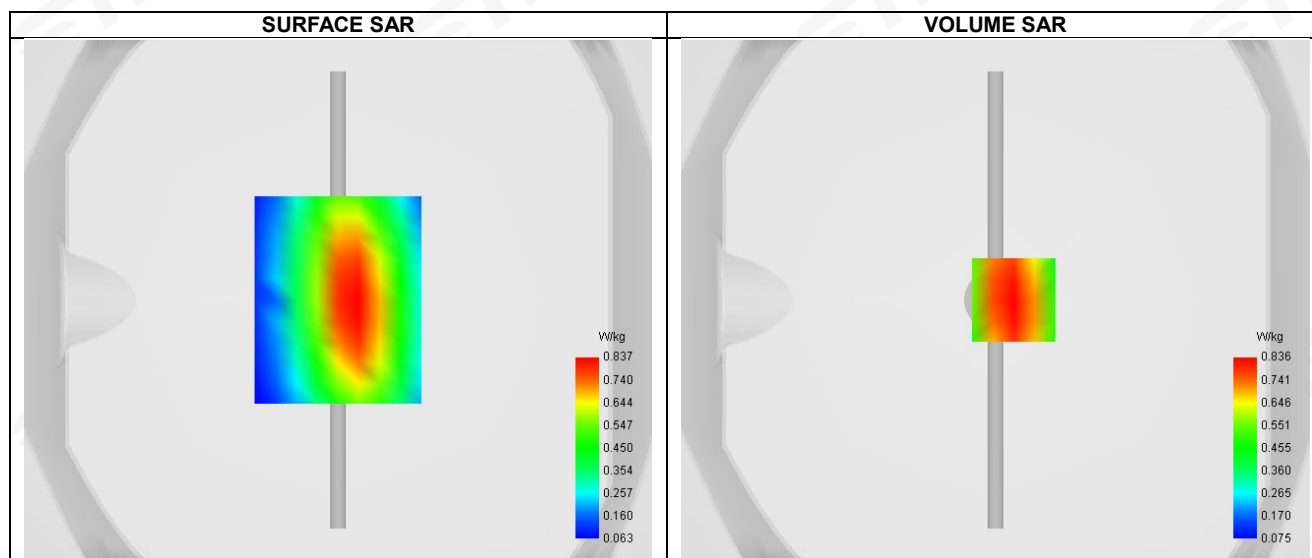
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2026-01-23

Experimental conditions

Phantom	Validation plane
Device Position	Dipole
Band	750MHz
Channels	Middle
Signal	CW
Frequency (MHz)	750MHz
Relative permittivity	42.88
Conductivity (S/m)	0.88
Probe	SN 08/21 EPG0352
ConvF	1.51
Crest factor	1:1



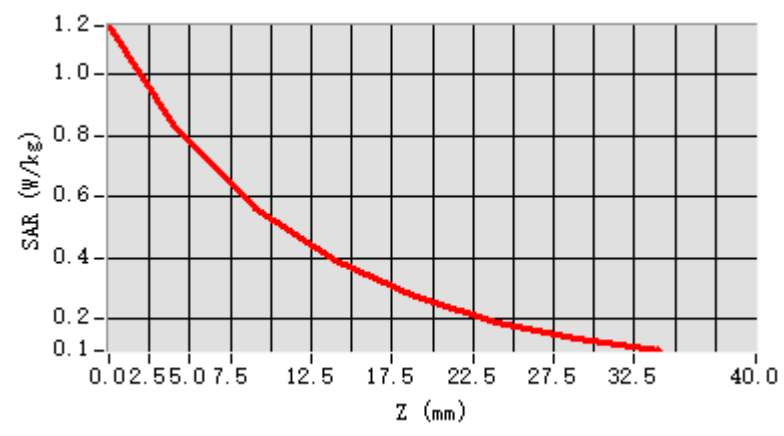
Maximum location: X=7.00, Y=0.00 ; SAR Peak: 1.16 W/kg

D. SAR 1g & 10g

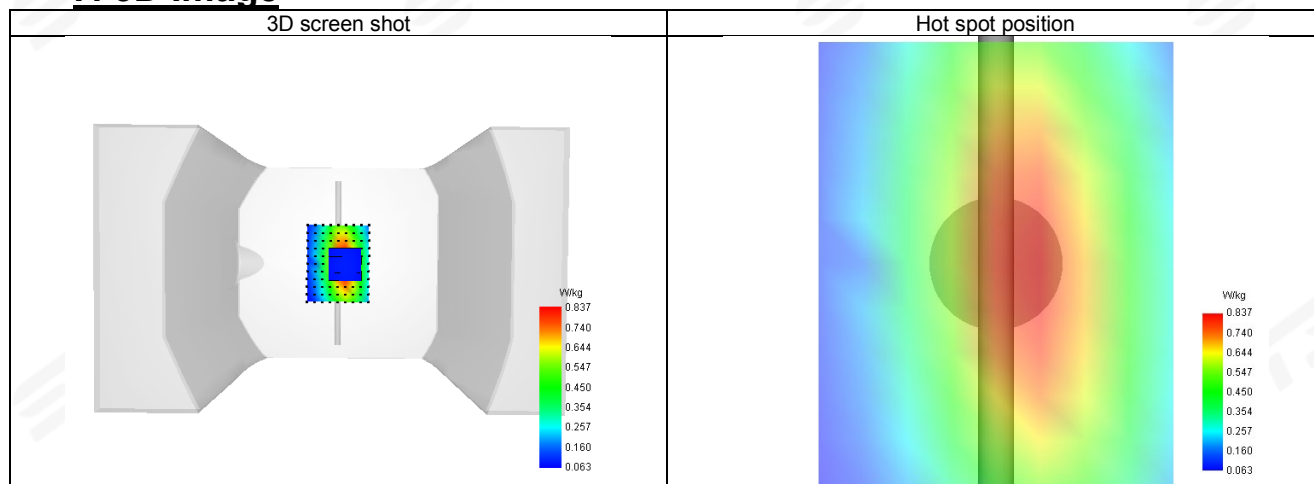
SAR 10g (W/Kg)	0.520
SAR 1g (W/Kg)	0.795
Horizontal validation criteria: minimum distance (mm)	11.324412
Vertical validation criteria: SAR ratio M2/M1 (%)	67.464118

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.159	0.836	0.564	0.387	0.274	0.189	0.131



F. 3D Image



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

Type: Phone measurement (Complete)

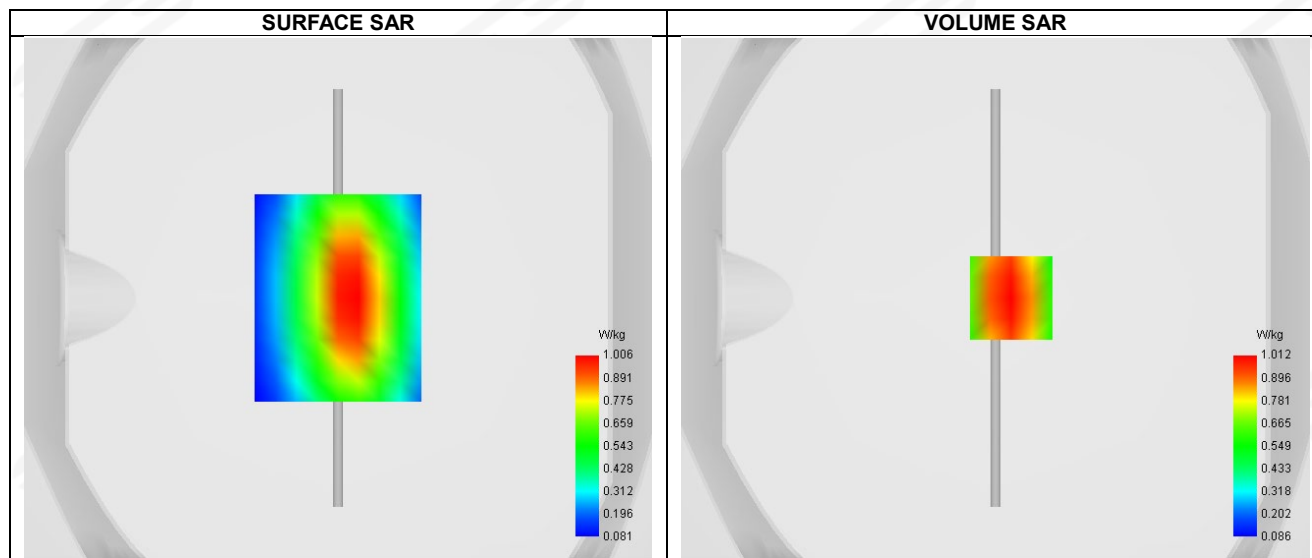
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2026-01-23

Experimental conditions

Phantom	Validation plane
Device Position	Dipole
Band	835MHz
Channels	Middle
Signal	CW
Frequency (MHz)	835MHz
Relative permittivity	42.36
Conductivity (S/m)	0.88
Probe	SN 08/21 EPGO352
ConvF	1.49
Crest factor:	1:1



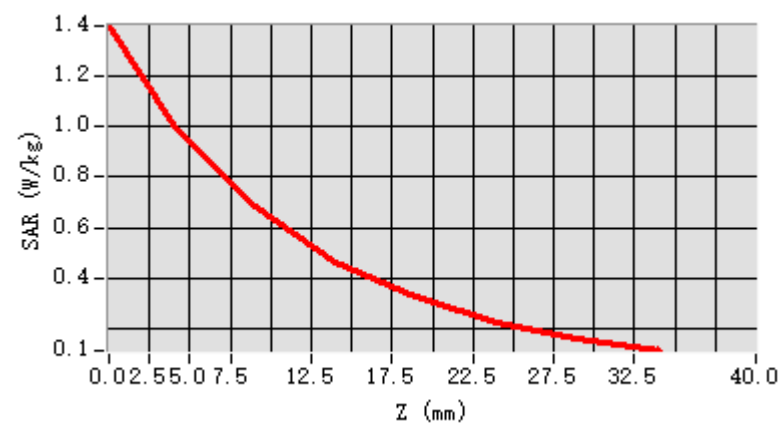
Maximum location: X=6.00, Y=0.00 ; SAR Peak: 1.40 W/kg

D. SAR 1g & 10g

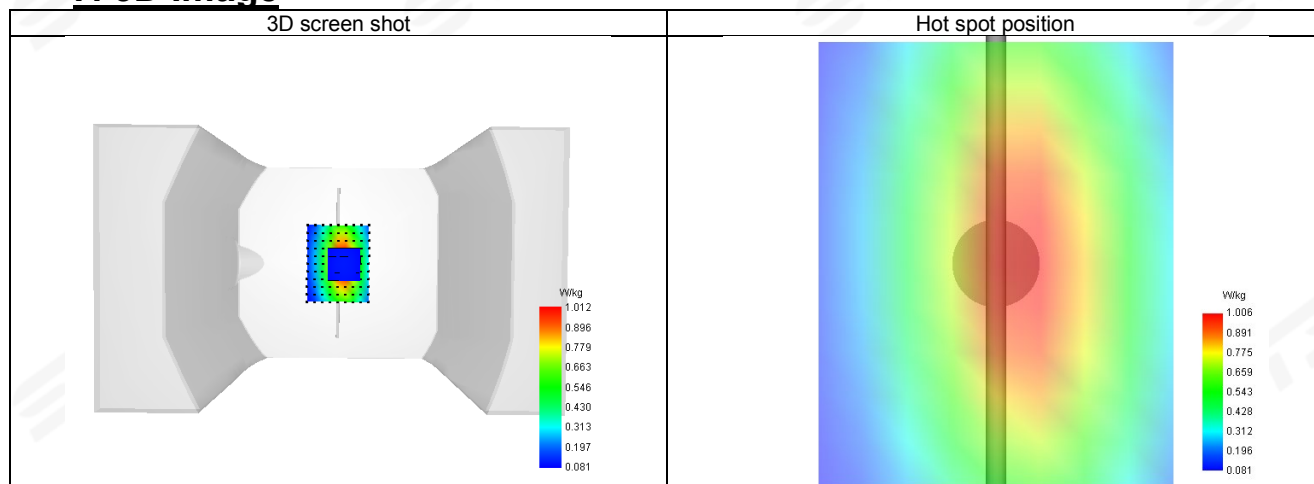
SAR 10g (W/Kg)	0.587
SAR 1g (W/Kg)	0.972
Horizontal validation criteria: minimum distance (mm)	11.104452
Vertical validation criteria: SAR ratio M2/M1 (%)	67.391304

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.400	1.012	0.682	0.464	0.326	0.225	0.155



F. 3D Image



System Performance Check Data(1800MHz)

Type: Phone measurement (Complete)

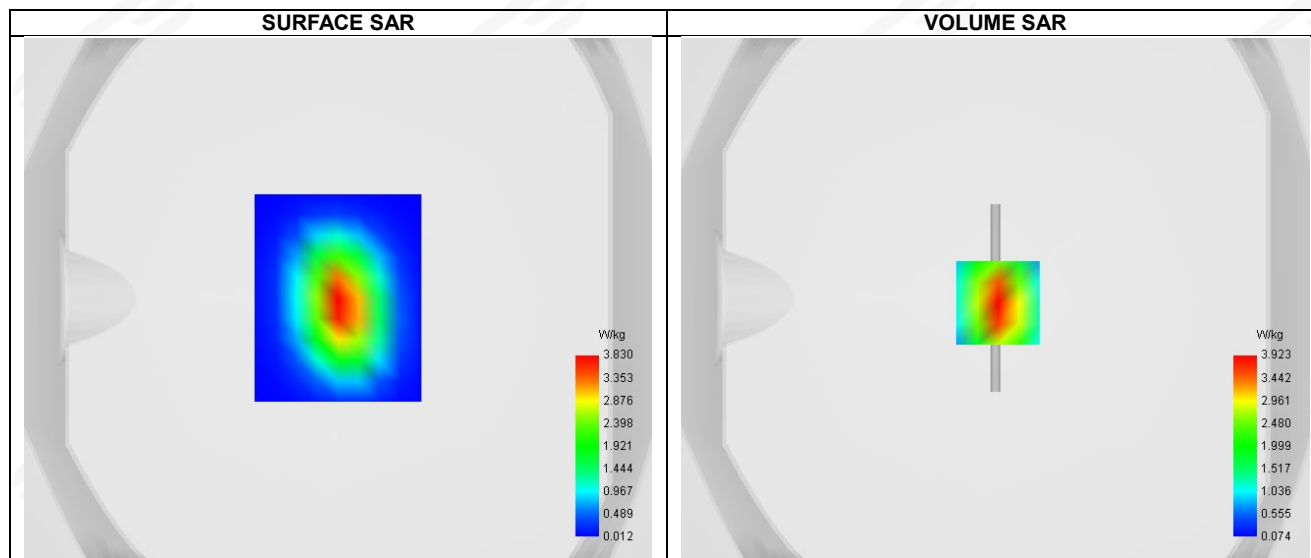
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2026-01-23

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	1800MHz
Channels	Middle
Signal	CW
Frequency (MHz)	1800MHz
Relative permittivity	40.23
Conductivity (S/m)	1.40
Probe	SN 08/21 EPGO352
ConvF	1.54
Crest factor:	1:1



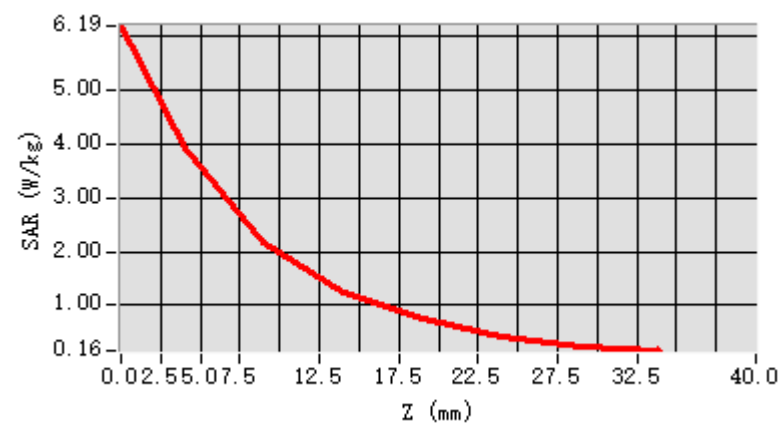
Maximum location: X=1.00, Y=-2.00 ; SAR Peak: 6.13 W/kg

D. SAR 1g & 10g

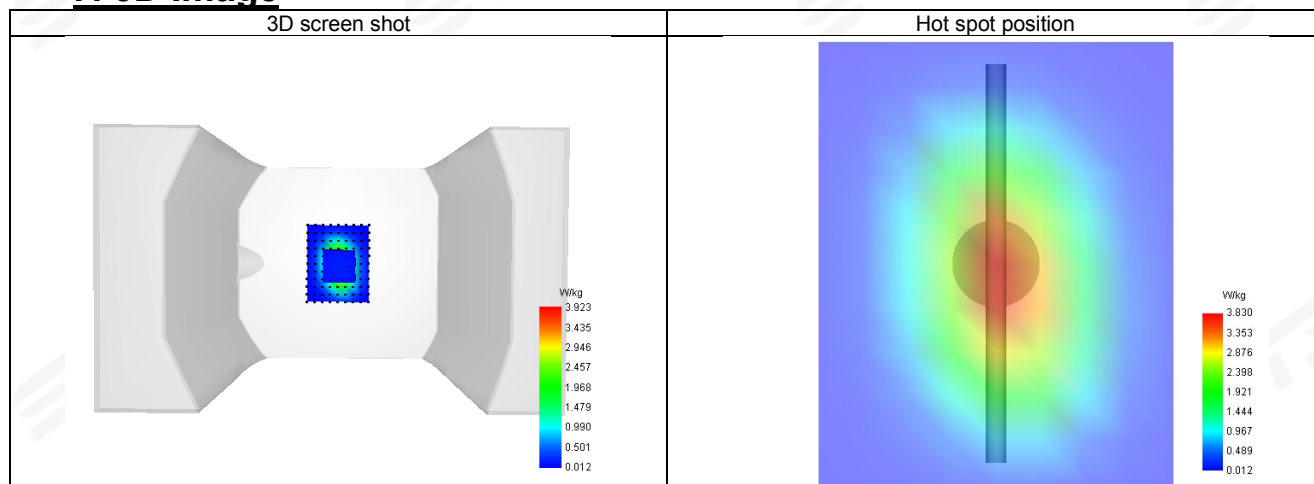
SAR 10g (W/Kg)	2.052
SAR 1g (W/Kg)	3.778
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	55.699926

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.188	3.923	2.185	1.252	0.741	0.427	0.246



F. 3D Image



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

Type: Phone measurement (Complete)

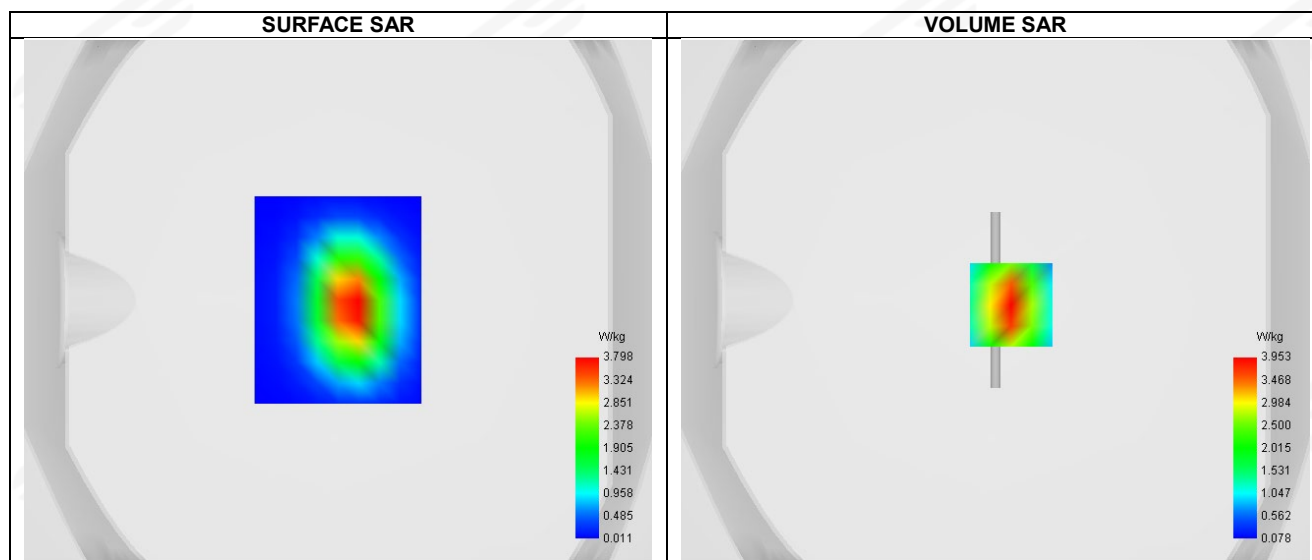
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2026-01-24

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	1900MHz
Channels	Middle
Signal	CW
Frequency (MHz)	1900MHz
Relative permittivity	40.60
Conductivity (S/m)	1.41
Probe	SN 08/21 EPGO352
ConvF	1.73
Crest factor:	1:1



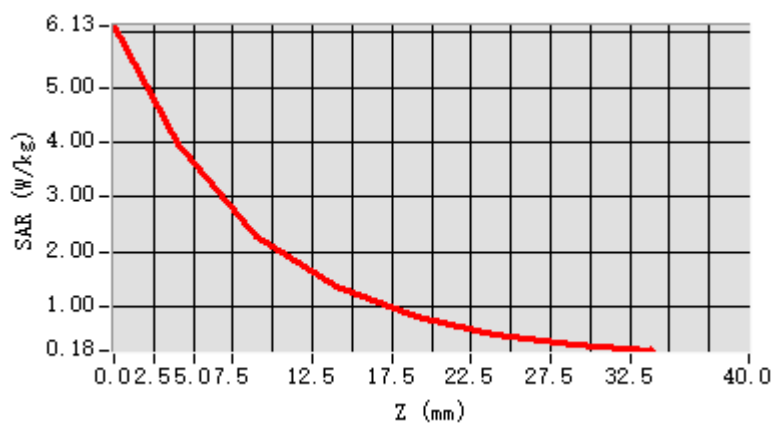
Maximum location: X=6.00, Y=-2.00 ; SAR Peak: 6.09 W/kg

D. SAR 1g & 10g

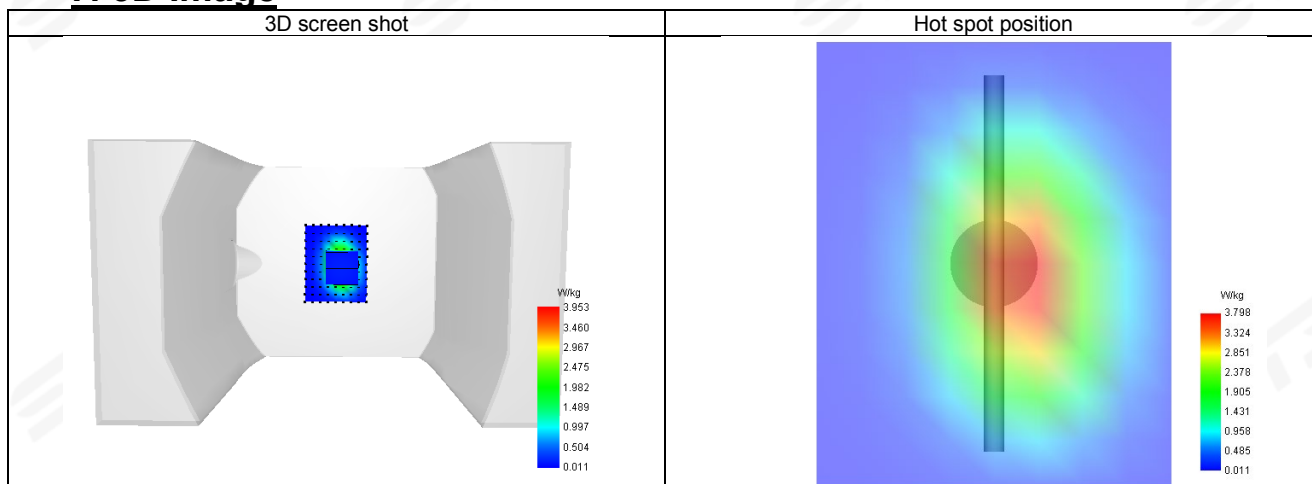
SAR 10g (W/Kg)	2.054
SAR 1g (W/Kg)	4.038
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	57.166237

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.128	3.953	2.260	1.353	0.813	0.482	0.286



F. 3D Image



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

Type: Phone measurement (Complete)

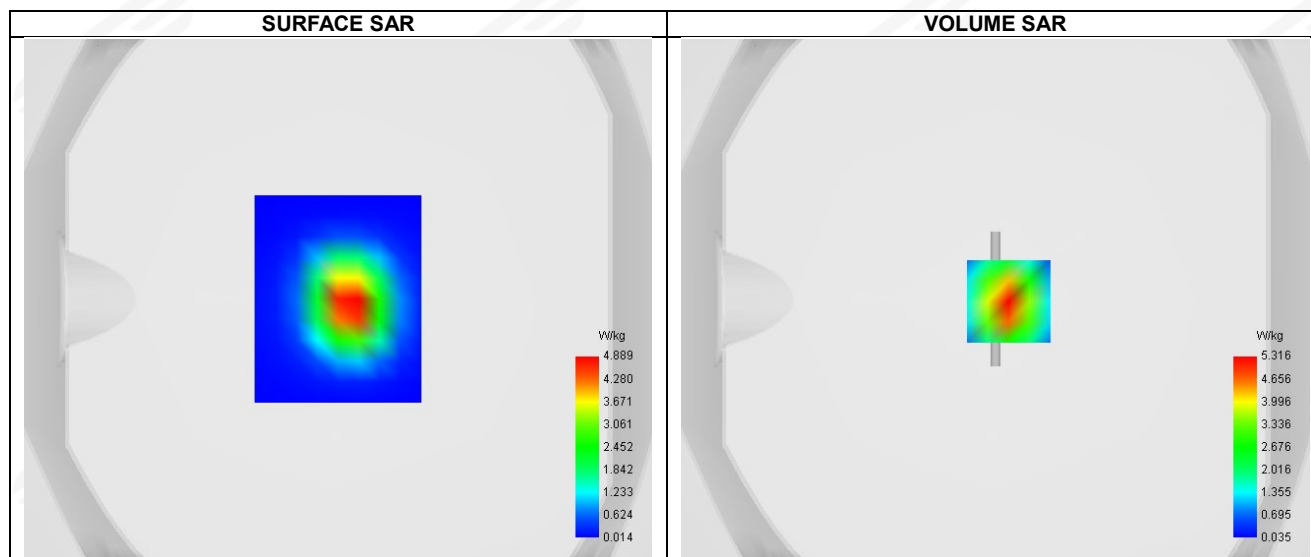
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2026-01-24

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	2450MHz
Channels	Middle
Signal	CW
Frequency (MHz)	2450
Relative permittivity	39.07
Conductivity (S/m)	1.80
Probe	SN 08/21 EPG0352
ConvF	1.82
Crest factor:	1:1



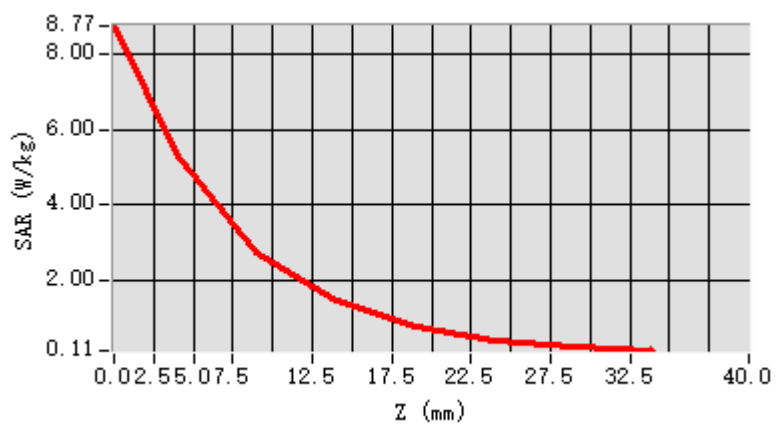
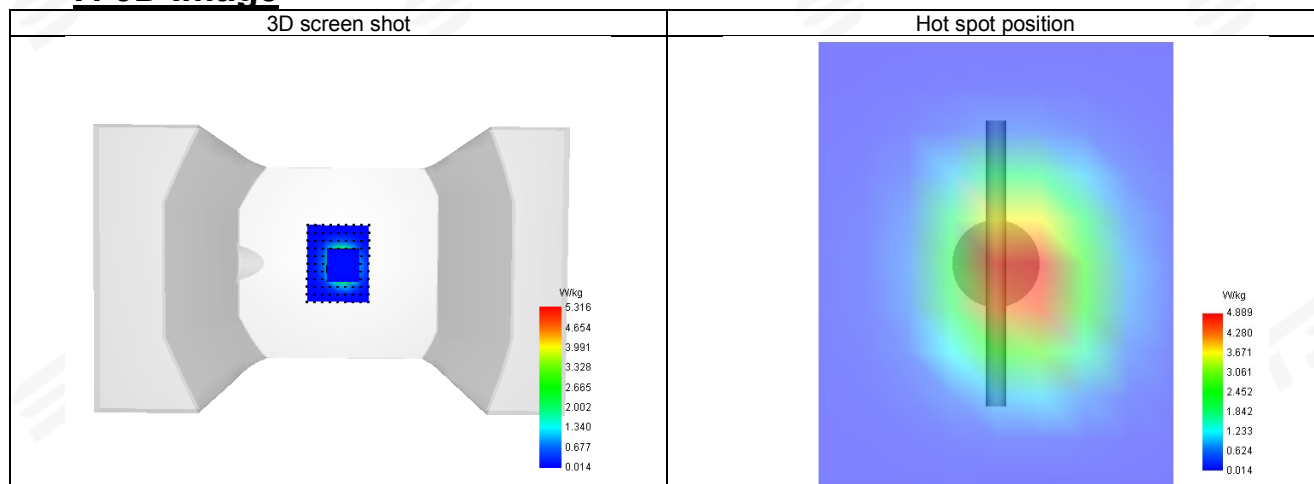
Maximum location: X=5.00, Y=-1.00 ; SAR Peak: 8.72 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	2.398
SAR 1g (W/Kg)	5.392
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	52.967234

**E. Z Axis Scan**

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	8.769	5.316	2.717	1.425	0.740	0.384	0.199

**F. 3D Image**

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

Type: Phone measurement (Complete)

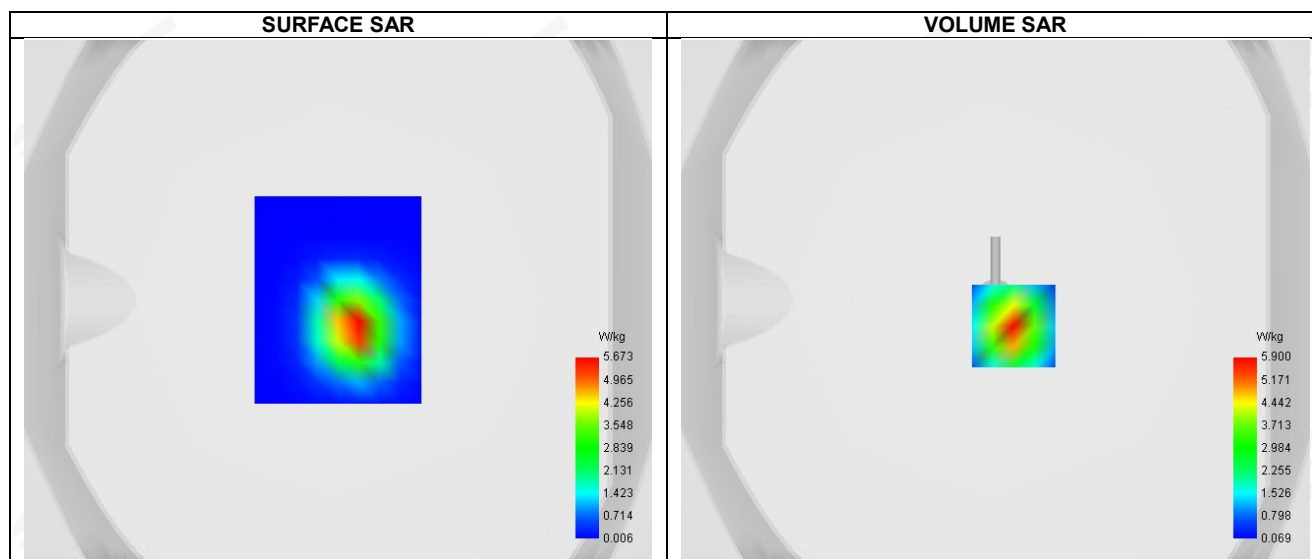
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2026-01-24

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	2600MHz
Channels	Middle
Signal	CW
Frequency (MHz)	2600
Relative permittivity	38.98
Conductivity (S/m)	1.99
Probe	SN 08/21 EPGO352
ConvF	1.70
Crest factor:	1:1



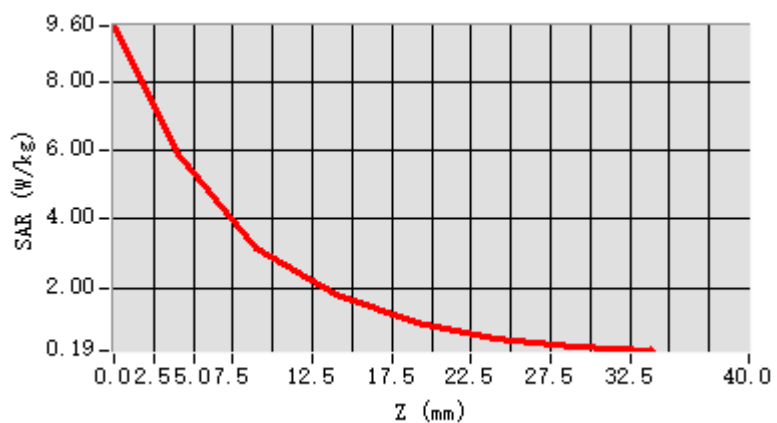
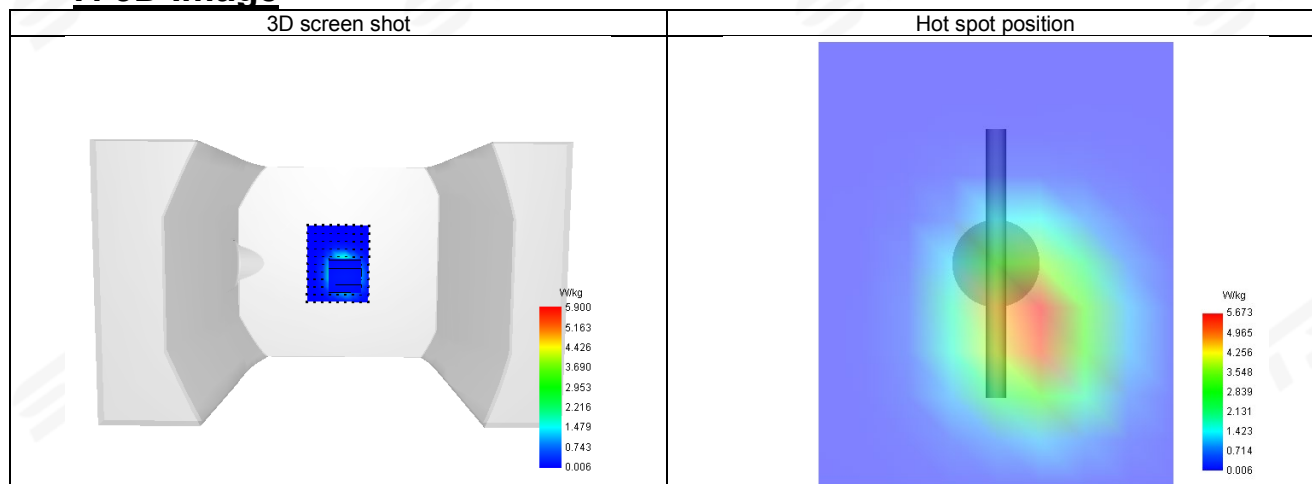
Maximum location: X=7.00, Y=-10.00 ; SAR Peak: 9.51 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	2.386
SAR 1g (W/Kg)	5.572
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	52.991264

**E. Z Axis Scan**

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	9.599	5.900	3.126	1.811	1.012	0.565	0.316

**F. 3D Image**

**System Performance Check Data (5200MHz)**

Type: Dipole measurement (Complete)

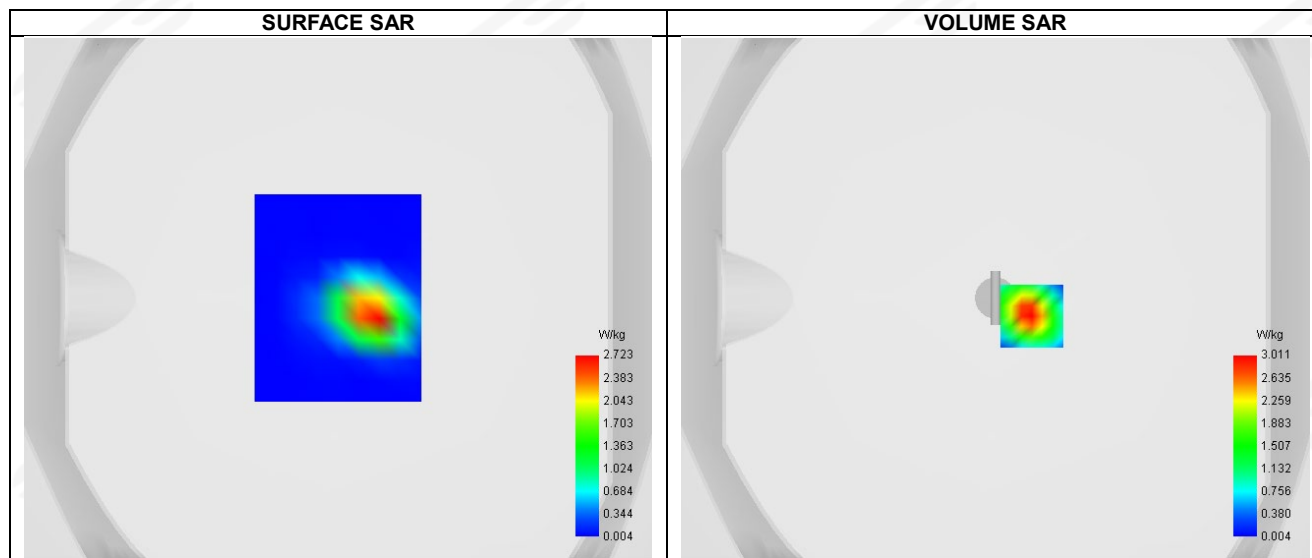
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2026-01-24

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	5200MHz
Channels	Middle
Signal	CW
Frequency (MHz)	5200
Relative permittivity	36.57
Conductivity (S/m)	4.65
Probe	SN 08/21 EPGO352
ConvF	1.37
Crest factor:	1:1



Maximum location: X=14.00, Y=-7.00 ; SAR Peak: 4.97 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.528
SAR 1g (W/Kg)	1.702
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	58.232960