



SAR TEST REPORT

Report No.: STS2302331H01

Issued for

Telo Communication (Shenzhen) Co., Ltd
6/F, No. 42 Liuxian 1st Road, Bao'an District, Shenzhen,
China

Product Name:	Smart LTE Terminal
Brand Name:	TELOX
Model Name:	TE320
Series Model:	TE320L, TE320A, TE320M, TE320G, TE320P, TE320X
FCC ID:	2AYEZ-TE320
Test Standard:	ANSI/IEEE Std. C95.1
	FCC 47 CFR Part 2 (2.1093)
	IEEE 1528: 2013
Max. Report SAR:	Body: 0.693 W/kg
	Back side with back clip: 0.744 W/kg
	Front of face:0.360 W/kg

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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

TEL: +86-755 3688 6288 FAX: +86-755 3688 6277 E-mail:sts@stsapp.com





Test Report Certification

Applicant's name : Telo Communication (Shenzhen) Co., Ltd
Address : 6/F, No. 42 Liuxian 1st Road, Bao' an District, Shenzhen, China
Manufacturer's Name : Telo Communication (Shenzhen) Co., Ltd
Address : 6/F, No. 42 Liuxian 1st Road, Bao' an District, Shenzhen, China

Product description

Product name : Smart LTE Terminal
Brand name : TELOX
Model name : TE320
Series Model..... : TE320L, TE320A, TE320M, TE320G, TE320P, TE320X
Standards..... : ANSI/IEEE Std. C95.1-1992
 FCC 47 CFR Part 2 (2.1093)
 IEEE 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..... : 10 Mar. 2023 ~ 21 Mar. 2023
Date of Issue..... : 23 Mar. 2023
Test Result..... : **Pass**

Testing Engineer : Shi fan-long
 (Shifan. Long)

Technical Manager : Sean She
 (Sean she)

Authorized Signatory : Bovey Yang
 (Bovey Yang)





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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	23 Mar. 2023	STS2302331H01	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	TE320				
Series Model	TE320L, TE320A, TE320M, TE320G, TE320P, TE320X				
Model Difference	It's just a different model name				
Battery	Rated Voltage:3.8 V Capacity: 4000mAh				
Device Category	Portable				
Product stage	Production unit				
RF Exposure Environment	General Population / Uncontrolled				
Hardware Version	PL21_V1.0				
Software Version	TE320_INT_V1P_230214				
Frequency Range	GSM 850: 824 MHz ~ 849 MHz PCS1900: 1850 MHz ~ 1910 MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV:1710 MHz ~ 1755 MHz WCDMA Band V: 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 MHz ~ 714 MHz LTE Band 26: 814 MHz ~ 824 MHz / 824 MHz ~ 849 MHz LTE Band 41: 2555 MHz ~ 2655 MHz LTE Band 66: 1710 MHz ~ 1780 MHz WLAN802.11b/g/n20: 2412 MHz ~ 2462 MHz WLAN 802.11a/n20/n40: 5150 ~ 5250 MHz WLAN 802.11a/n20/n40: 5725 ~ 5850 MHz Bluetooth: 2402 MHz to 2480 MHz				
Max. Reported SAR	Band	Mode	Body SAR(10mm)	Back side with back clip SAR(0mm)	Front of face SAR(25mm)
	PCB	GSM 850	0.693	0.593	0.360
	PCB	GSM 1900	0.531	0.523	0.177
	PCB	WCDMA Band 2	0.414	0.393	0.143
	PCB	WCDMA Band 4	0.317	0.342	0.123
	PCB	WCDMA Band 5	0.469	0.602	0.296
	PCB	LTE Band 2	0.417	0.438	0.080
	PCB	LTE Band 4	0.354	0.388	0.121
	PCB	LTE Band 5	0.312	0.695	0.266
	PCB	LTE Band 7	0.532	0.744	0.072



	PCB	LTE Band 12	0.435	0.505	0.171
	PCB	LTE Band 13	0.565	0.661	0.309
	PCB	LTE Band 17	0.481	0.548	0.256
	PCB	LTE Band 26	0.417	0.544	0.281
	PCB	LTE Band 41	0.638	0.343	0.055
	PCB	LTE Band 66	0.404	0.261	0.145
	DTS	2.4G WLAN	0.056	0.103	0.018
	DTS	5.2G WLAN	0.060	0.074	0.063
	DTS	5.8G WLAN	0.077	0.103	0.066
	DSS	Bluetooth ^{Note}	0.741	0.741	0.741
1-g Sum SAR			1.485		
Limit(W/kg)			1.6		
FCC Equipment Class	Licensed Transmitter (PCB) Part 15 Spread Spectrum Transmitter (DSS) Digital Transmission System (DTS) Unlicensed National Information Infrastructure TX(NII)				
Operating Mode:	GSM:GPRS/EGPRS Class 12 WCDMA: RMC, HSDPA, HSUPA Release 6 LTE: QPSK, 16QAM WLAN: 802.11 a/b/g/n20/n40 Bluetooth: 4.2(GFSK +π/4DQPSK+8DPSK)				
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				
<p>Note:</p> <ol style="list-style-type: none"> 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. 4. Bluetooth SAR was estimated. 					



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	ANSI/IEEE Std. C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz
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 941225 D06 v02r01	Hotspot Mode SAR
10	FCC KDB 648474 D04 v01r03	SAR Evaluation Considerations for Wireless Handsets
11	FCC KDB 248227 D01 Wi-Fi SAR v02r02	SAR Considerations for 802.11 Devices
12	FCC KDB 643646 D01	SAR Test Reduction Considerations for Occupational PTT Radios

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

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

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

Whole-Body	Partial-Body	Hands, Body Backs, 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:

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

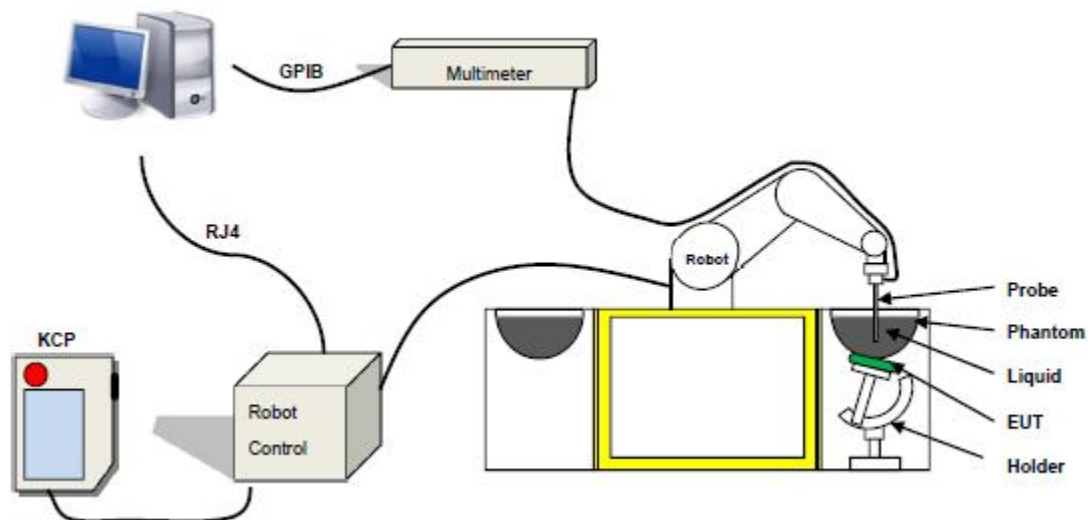
SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be related to the electrical field in the tissue by

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

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 07/21 EPGO352 with following specifications is used

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



Figure 1-MVG COMOSAR Dosimetric E field Dipole

3.2.2 Phantom

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

SN 32/14 SAM115



Figure-SN 21/21 ELLI48



3.2.3 Device Holder



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

4. Tissue Simulating Liquids



4. Tissue Simulating Liquids

4.1 Simulating Liquids Parameter Check

The head tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 in P1528 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness variations in a human head. Other head and body tissue parameters that have not been specified in P1528 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equations described in Reference [12] and extrapolated according to the head parameters specified in P1528.

Head Tissue

Frequency (MHz)	cellulose	DGBE	HEC	NaCl	Preventol	Sugar	X100	Water	Conductivity	Permittivity
	%	%	%	%	%	%	%	%	σ	ϵ_r
750	0.2	/	/	1.4	0.2	57.0	/	41.1	0.89	41.9
835	0.2	/	/	1.4	0.2	57.9	/	40.3	0.90	41.5
900	0.2	/	/	1.4	0.2	57.9	/	40.3	0.97	41.5
1800	/	44.5	/	0.3	/	/	30.45	55.2	1.4	40.0
1900	/	44.5	/	0.3	/	/	30.45	55.2	1.4	40.0
2000	/	44.5	/	0.3	/	/	/	55.2	1.4	40.0
2450	/	44.9	/	0.1	/	/	/	55.0	1.80	39.2
2600	/	45.0	/	0.1	/	/	/	54.9	1.96	39.0

Body Tissue

Frequency (MHz)	cellulose	DGBE	HEC	NaCl	Preventol	Sugar	X100	Water	Conductivity	Permittivity
	%	%	%	%	%	%	%	%	σ	ϵ_r
750	0.2	/	/	0.9	0.1	47.2	/	51.7	0.96	55.5
835	0.2	/	/	0.9	0.1	48.2	/	50.8	0.97	55.2
900	0.2	/	/	0.9	0.1	48.2	/	50.8	1.05	55.0
1800	/	29.4	/	0.4	/	/	30.45	70.2	1.52	53.3
1900	/	29.4	/	0.4	/	/	30.45	70.2	1.52	53.3
2000	/	29.4	/	0.4	/	/	/	70.2	1.52	53.3
2450	/	31.3	/	0.1	/	/	/	68.6	1.95	52.7
2600	/	31.7	/	0.1	/	/	/	68.2	2.16	52.3

Tissue dielectric parameters for head and body phantoms				
Frequency	ϵ_r		σ	
	S/m			
	Head	Body	Head	Body
300	45.3	58.2	0.87	0.92
450	43.5	56.7	0.87	0.94
900	41.5	55.0	0.97	1.05
1450	40.5	54.0	1.20	1.30
1800	40.0	53.3	1.40	1.52
2450	39.2	52.7	1.80	1.95
3000	38.5	52.0	2.40	2.73
5800	35.3	48.2	5.27	6.00



LIQUID MEASUREMENT RESULTS

Date	Ambient		Simulating Liquid		Parameters	Target	Measured	Deviation %	Limited %
	Temp. [°C]	Humidity %	Frequency (MHz)	Temp. [°C]					
2023-03-10	23.0	52	709	22.7	Permittivity	42.12	42.95	1.97	±5
					Conductivity	0.89	0.89	0.31	±5
2023-03-10	23.0	52	710	22.6	Permittivity	42.11	42.25	0.32	±5
					Conductivity	0.89	0.88	-0.83	±5
2023-03-10	23.1	52	711	22.8	Permittivity	42.11	42.33	0.53	±5
					Conductivity	0.89	0.88	-0.83	±5
2023-03-10	23.2	52	750	23.0	Permittivity	41.90	42.30	0.95	±5
					Conductivity	0.89	0.86	-3.37	±5
2023-03-10	23.2	53	782	22.9	Permittivity	41.73	42.14	0.98	±5
					Conductivity	0.89	0.90	0.88	±5
2023-03-13	22.3	47	824.2	22.0	Permittivity	41.55	41.76	0.50	±5
					Conductivity	0.90	0.86	-4.31	±5
2023-03-13	22.3	47	826.4	22.0	Permittivity	41.54	40.88	-1.59	±5
					Conductivity	0.90	0.93	3.45	±5
2023-03-13	22.3	48	829	22.0	Permittivity	41.53	41.35	-0.43	±5
					Conductivity	0.90	0.90	0.08	±5
2023-03-13	22.4	48	835	22.1	Permittivity	41.50	41.11	-0.94	±5
					Conductivity	0.90	0.88	-2.22	±5
2023-03-13	22.4	47	836.6	22.1	Permittivity	41.49	41.23	-0.63	±5
					Conductivity	0.90	0.94	4.42	±5
2023-03-13	22.5	48	841.5	22.2	Permittivity	41.47	40.80	-1.61	±5
					Conductivity	0.90	0.91	1.03	±5
2023-03-13	22.6	48	844	22.3	Permittivity	41.46	41.78	0.78	±5
					Conductivity	0.90	0.88	-2.34	±5
2023-03-13	22.4	47	848.8	22.1	Permittivity	41.44	40.41	-2.47	±5
					Conductivity	0.90	0.87	-3.51	±5
2023-03-14	20.2	45	1712.6	19.8	Permittivity	40.12	40.60	1.18	±5
					Conductivity	1.35	1.36	0.74	±5
2023-03-14	20.2	45	1720	19.9	Permittivity	40.11	41.38	3.16	±5
					Conductivity	1.35	1.34	-1.05	±5
2023-03-14	20.3	45	1800	20.0	Permittivity	40.00	40.87	2.17	±5
					Conductivity	1.40	1.38	-1.43	±5

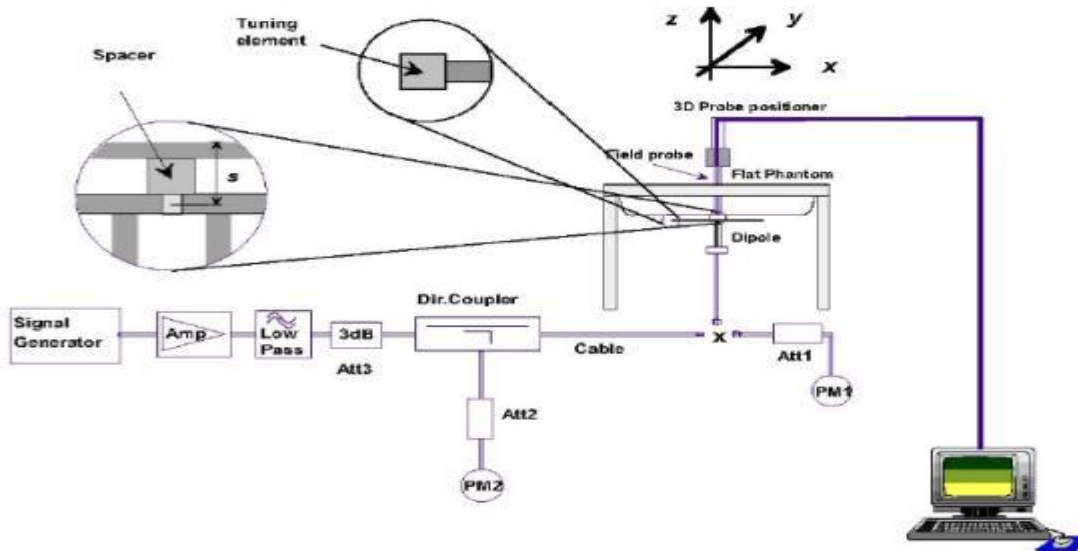


2023-03-14	20.3	45	1880	20.0	Permittivity	39.89	40.62	1.84	±5
					Conductivity	1.45	1.50	3.75	±5
2023-03-15	21.4	53	1900	21.2	Permittivity	40.00	40.39	0.98	±5
					Conductivity	1.40	1.39	-0.71	±5
2023-03-15	21.4	53	1909.8	21.2	Permittivity	40.00	40.03	0.08	±5
					Conductivity	1.40	1.42	1.43	±5
2023-03-15	21.4	53	1952.4	21.1	Permittivity	40.00	41.19	2.97	±5
					Conductivity	1.40	1.41	0.71	±5
2023-03-17	22.2	43	2450	21.9	Permittivity	39.20	39.91	1.81	±5
					Conductivity	1.80	1.83	1.67	±5
2023-03-17	22.3	43	2462	22.1	Permittivity	39.18	39.60	1.08	±5
					Conductivity	1.81	1.76	-2.80	±5
2023-03-20	23.6	42	2506	23.3	Permittivity	39.13	39.88	1.93	±5
					Conductivity	1.86	1.90	2.17	±5
2023-03-20	23.7	42	2510	23.4	Permittivity	39.12	40.65	3.91	±5
					Conductivity	1.86	1.86	-0.21	±5
2023-03-20	23.7	42	2535	23.4	Permittivity	39.09	39.84	1.93	±5
					Conductivity	1.89	1.91	1.02	±5
2023-03-20	23.8	43	2560	23.5	Permittivity	39.05	39.78	1.86	±5
					Conductivity	1.92	1.94	1.18	±5
2023-03-20	21.7	54	2600	21.4	Permittivity	39.00	39.50	1.28	±5
					Conductivity	1.96	1.98	1.02	±5
2023-03-21	22.4	55	5180	22.0	Permittivity	36.02	36.86	2.33	±5
					Conductivity	4.64	4.62	-0.41	±5
2023-03-21	22.4	55	5200	22.0	Permittivity	36.00	36.46	1.28	±5
					Conductivity	4.66	4.65	-0.21	±5
2023-03-21	21.2	49	5745	20.9	Permittivity	35.36	35.90	1.54	±5
					Conductivity	5.21	5.15	-1.19	±5
2023-03-21	21.2	49	5800	20.9	Permittivity	35.30	36.43	3.20	±5
					Conductivity	5.27	5.29	0.38	±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

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

Date	Freq.	Power	Tested Value	Normalized SAR	Target SAR	Tolerance	Limit
	(MHz)	(mW)	(W/Kg)	(W/kg)	1g(W/kg)	(%)	(%)
2023-03-10	750	100	0.871	8.71	8.49	2.59	10
2023-03-13	835	100	0.987	9.87	9.63	2.49	10
2023-03-14	1800	100	3.960	39.60	38.31	3.37	10
2023-03-15	1900	100	3.922	39.22	39.84	-1.56	10
2023-03-17	2450	100	5.582	55.82	54.70	2.05	10
2023-03-20	2600	100	5.862	58.62	56.19	4.32	10
2023-03-21	5200	100	15.927	159.27	158.49	0.49	10
2023-03-21	5800	100	18.515	185.15	183.06	1.14	10

Note:

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



6. SAR Evaluation Procedures

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

The following steps are used for each test position

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

➤ Area Scan& Zoom Scan

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g. Area scan and zoom scan resolution setting follows KDB 865664 D01 quoted below.

When the 1-g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.

7. EUT Test Position

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

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 $k=2$.

Symbol	Uncertainty Component	Prob. Dist.	Unc. $a(x_i)$	Div. q_i	$u(x_i) = a(x_i)/q_i$	C_i	$u(y) = C_i * u(x_i)$	V_i
Measurement system errors								
CF	Probe calibration	N ($k = 2$)	5.72	2	2.86	1	2.86	∞
CF _{drift}	Probe calibration drift	R	0.15	$\sqrt{3}$	0.09	1	0.09	∞
LIN	Probe linearity and detection limit	R	1.27	$\sqrt{3}$	0.73	1	0.73	∞
BBS	Broadband signal	R	0.12	$\sqrt{3}$	0.07	1	0.07	∞
ISO	Probe isotropy	R	0.16	$\sqrt{3}$	0.09	1	0.09	∞
DAE	Other probe and data acquisition errors	N	2.4	1	2.40	1	2.40	∞
AMB	RF ambient and noise	N	3.51	1	3.51	1	3.51	∞
Δ_{xyz}	Probe positioning errors	N	1.2	1	1.20	$2/\delta$	1.20	
DAT	Data processing errors	N	2.1	1	2.10	1	2.10	∞
Phantom and device (DUT or validation antenna) errors								
LIQ(σ)	Measurement of phantom conductivity(σ)	N	4.1	1	4.1	C_ϵ, C_σ	4.10	∞
LIQ(T_c)	Temperature effects (medium)	R	2.7	$\sqrt{3}$	1.56	C_ϵ, C_σ	1.56	∞
EPS	Shell permittivity	R	2.1	$\sqrt{3}$	1.21	See 8.4.2.3	0.30	∞
DIS	Distance between the radiating element of the DUT and the phantom medium	N	0.7	1	0.7	2	1.40	∞
D _{xyz}	Repeatability of positioning the DUT or source against the phantom	N	1.2	1	1.2	1	1.20	5
H	Device holder effects	N	3.8	1	3.8	1	3.80	
MOD	Effect of operating mode on probe sensitivity	R	3.42	$\sqrt{3}$	1.97	1	1.97	∞
TAS	Time-average SAR	R	1.8	$\sqrt{3}$	1.04	1	1.04	∞
RF _{drift}	Variation in SAR due to drift in output of DUT	N	4.5	1	4.5	1	4.50	
VAL	Validation antenna uncertainty (validation measurement only)	N	1.4	1	1.4	1	1.40	
P _{in}	Uncertainty in accepted power (validation measurement only)	N	2.4	1	2.4	1	2.40	
Corrections to the SAR result (if applied)								
C(ϵ', σ)	Phantom deviation from target (ϵ', σ)	N	3.7	1	3.7	1	3.70	
C(R)	SAR scaling	R	1.8	$\sqrt{3}$	1.04	1	1.04	
u(Δ SAR)	Combined uncertainty						10.84	
U	Expanded uncertainty and effective degrees of freedom					U =	21.68	



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
GPRS (GMSK, 1-Slot)	32.72	32.49	32.41	29.30	29.88	30.14
GPRS (GMSK, 2-Slot)	32.08	31.80	31.69	28.70	29.27	29.53
GPRS (GMSK, 3-Slot)	30.40	30.08	29.95	27.11	27.68	27.96
GPRS (GMSK, 4-Slot)	29.30	28.98	28.82	26.01	26.61	26.87
EGPRS(8PSK, 1-Slot)	27.00	26.93	26.92	25.45	26.58	26.68
EGPRS(8PSK, 2-Slot)	25.76	25.86	25.86	24.28	25.17	25.76
EGPRS(8PSK, 3-Slot)	24.19	23.23	23.79	22.63	22.70	23.43
EGPRS(8PSK, 4-Slot)	22.76	22.45	22.50	20.91	21.27	21.99

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
GPRS (GMSK, 1-Slot)	23.69	23.46	23.38	20.27	20.85	21.11
GPRS (GMSK, 2-Slot)	26.06	25.78	25.67	22.68	23.25	23.51
GPRS (GMSK, 3-Slot)	26.14	25.82	25.69	22.85	23.42	23.70
GPRS (GMSK, 4-Slot)	26.29	25.97	25.81	23.00	23.60	23.86
EGPRS(8PSK, 1-Slot)	17.97	17.90	17.89	16.42	17.55	17.65
EGPRS(8PSK, 2-Slot)	19.74	19.84	19.84	18.26	19.15	19.74
EGPRS(8PSK, 3-Slot)	19.93	18.97	19.53	18.37	18.44	19.17
EGPRS(8PSK, 4-Slot)	19.75	19.44	19.49	17.90	18.26	18.98

Remark :

- SAR testing was performed on the maximum frame-averaged power mode.
- 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	22.65	22.63	22.47	21.78	21.54	21.67	23.52	23.45	23.40
HSDPA Subtest-1	21.64	21.23	19.90	20.48	20.16	18.97	22.40	22.03	20.95
HSDPA Subtest-2	20.09	21.68	21.30	18.85	20.28	19.68	20.85	22.34	21.86
HSDPA Subtest-3	20.04	20.47	21.50	18.96	18.62	20.41	20.83	20.82	22.22
HSDPA Subtest-4	21.22	19.98	19.68	19.74	18.57	19.09	21.60	20.77	20.54
HSUPA Subtest-1	20.48	21.50	19.57	19.24	20.68	18.80	21.78	22.25	20.40
HSUPA Subtest-2	21.58	20.41	21.35	20.68	18.99	20.27	22.38	20.57	21.97
HSUPA Subtest-3	21.41	20.52	21.61	20.37	19.26	20.40	22.23	20.85	22.28
HSUPA Subtest-4	20.98	21.28	21.31	19.73	20.39	20.58	21.88	21.99	20.07
HSUPA Subtest-5	20.05	21.44	20.88	19.05	20.49	19.84	20.74	22.16	21.75

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)	Average Power (dBm)	Output Power (mW)
802.11b	1	2412	8.39	6.90
	7	2437	5.71	3.72
	11	2462	8.75	7.50
802.11g	1	2412	7.49	5.61
	7	2437	5.92	3.91
	11	2462	8.62	7.28
802.11 n-HT20	1	2412	7.31	5.38
	7	2437	5.95	3.94
	11	2462	8.8	7.59

Bluetooth

BT				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	-3.63	0.43
	39	2441	-6.16	0.24
	78	2480	-0.73	0.85
$\pi/4$ -QPSK(2Mbps)	0	2402	-5.97	0.25
	39	2441	-8.38	0.15
	78	2480	-4.05	0.39
8DPSK(3Mbps)	0	2402	-5.89	0.26
	39	2441	-8.48	0.14
	78	2480	-3.81	0.42

**WLAN (5.2Gband)**

5.2G WLAN				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a20	36	5180	6.27	4.24
	40	5200	6.25	4.22
	48	5240	5.9	3.89
802.11 n-HT20	36	5180	6.21	4.18
	40	5200	6.09	4.06
	48	5240	5.77	3.78
802.11 n-HT40	38	5190	5.85	3.85
	46	5230	5.41	3.48

WLAN (5.8Gband)

5.8G WLAN				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a20	149	5745	9.3	8.51
	157	5785	8.58	7.21
	165	5825	7.97	6.27
802.11 n-HT20	149	5745	9.41	8.73
	157	5785	8.06	6.40
	165	5825	7.89	6.15
802.11 n-HT40	151	5755	8.24	6.67
	159	5795	7.73	5.93



LTE Conducted Power

General Note:

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



LTE Band 2

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.78	23.78	23.65
1.4	1	2		23.94	23.92	23.73
1.4	1	5		23.80	23.76	23.61
1.4	3	0		23.63	23.82	23.59
1.4	3	1		23.69	23.82	23.60
1.4	3	2		23.65	23.81	23.57
1.4	6	0		22.79	22.83	22.63
1.4	1	0	16-QAM	22.71	22.93	22.40
1.4	1	2		22.86	23.05	22.57
1.4	1	5		22.73	22.91	22.39
1.4	3	0		22.79	23.02	22.70
1.4	3	1		22.79	23.07	22.72
1.4	3	2		22.76	23.01	22.72
1.4	6	0		21.80	21.93	21.72
3	1	0	QPSK	23.72	23.85	23.59
3	1	7		23.94	24.17	23.84
3	1	14		23.74	23.90	23.53
3	8	0		22.73	22.84	22.62
3	8	4		22.76	22.85	22.63
3	8	7		22.76	22.81	22.62
3	15	0		22.66	22.79	22.57
3	1	0	16-QAM	22.81	22.65	23.02
3	1	7		23.15	22.91	23.06
3	1	14		22.80	22.59	22.90
3	8	0		21.63	21.74	21.56
3	8	4		21.66	21.74	21.60
3	8	7		21.65	21.78	21.54
3	15	0		21.56	21.81	21.59



LTE BAND 2

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.60	23.74	23.60
5	1	12		24.02	24.06	23.90
5	1	24		23.61	23.71	23.55
5	12	0		22.59	22.77	22.57
5	12	6		22.74	22.82	22.61
5	12	11		22.63	22.79	22.54
5	25	0		22.61	22.79	22.60
5	1	0		16-QAM	22.81	23.21
5	1	12	23.20		23.52	23.17
5	1	24	22.85		23.18	22.79
5	12	0	21.57		21.76	21.53
5	12	6	21.69		21.83	21.57
5	12	11	21.63		21.76	21.46
5	25	0	21.51		21.72	21.55
10	1	0	QPSK		23.69	23.85
10	1	24		23.86	23.94	23.85
10	1	49		23.81	23.75	23.67
10	25	0		22.71	22.85	22.68
10	25	12		22.81	22.84	22.66
10	25	24		22.77	22.85	22.67
10	50	0		22.70	22.87	22.68
10	1	0		16-QAM	22.97	22.92
10	1	24	23.16		23.08	22.65
10	1	49	23.11		22.86	22.42
10	25	0	21.60		21.78	21.67
10	25	12	21.74		21.81	21.64
10	25	24	21.67		21.77	21.63
10	50	0	21.64		21.83	21.61



LTE BAND 2

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.75	23.76	23.67
15	1	37		24.11	23.97	23.97
15	1	74		23.90	23.63	23.44
15	36	0		22.80	22.87	22.74
15	36	18		22.83	22.88	22.71
15	36	39		22.80	22.84	22.66
15	75	0		22.81	22.87	22.73
15	1	0	16-QAM	22.64	23.14	22.78
15	1	38		23.12	23.39	23.14
15	1	75		22.85	22.99	22.51
15	36	0		21.70	21.88	21.82
15	36	18		21.79	21.86	21.74
15	36	39		21.75	21.80	21.66
15	75	0		21.75	21.78	21.65
20	1	0	QPSK	23.49	23.71	23.50
20	1	49		23.95	23.97	23.86
20	1	99		23.56	23.58	23.38
20	50	0		22.78	22.85	22.88
20	50	24		22.83	22.83	22.75
20	50	49		22.78	22.74	22.68
20	100	0		22.81	22.78	22.75
20	1	0	16-QAM	22.63	22.90	22.72
20	1	49		23.18	23.14	23.08
20	1	99		22.90	22.70	22.58
20	50	0		21.78	21.75	21.82
20	50	24		21.84	21.73	21.73
20	50	49		21.77	21.69	21.72
20	100	0		21.80	21.71	21.70



LTE BAND 4

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.08	22.91	23.00
1.4	1	2		23.25	23.08	23.15
1.4	1	5		23.12	22.87	22.96
1.4	3	0		23.17	22.83	22.91
1.4	3	1		23.17	22.83	22.96
1.4	3	2		23.18	22.83	22.96
1.4	6	0		22.10	21.88	21.97
1.4	1	0	16-QAM	22.23	21.54	22.02
1.4	1	2		22.38	21.75	22.19
1.4	1	5		22.25	21.54	22.11
1.4	3	0		22.37	21.91	22.13
1.4	3	1		22.38	21.90	22.14
1.4	3	2		22.41	21.94	22.13
1.4	6	0		21.22	20.93	21.09
3	1	0	QPSK	23.13	22.87	23.03
3	1	7		23.40	23.23	23.37
3	1	14		23.17	22.84	23.03
3	8	0		22.13	21.88	21.97
3	8	4		22.16	21.92	21.99
3	8	7		22.17	21.89	21.98
3	15	0		22.14	21.80	21.93
3	1	0	16-QAM	22.53	21.95	21.79
3	1	7		22.78	22.18	22.08
3	1	14		22.57	21.90	21.79
3	8	0		21.12	20.79	20.92
3	8	4		21.14	20.82	20.96
3	8	7		21.19	20.79	20.93
3	15	0		21.15	20.72	20.99



LTE BAND 4

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.04	22.87	22.85
5	1	12		23.52	23.23	23.28
5	1	24		23.11	22.84	22.86
5	12	0		22.12	21.71	21.91
5	12	6		22.18	21.80	21.99
5	12	11		22.22	21.74	21.92
5	25	0		22.19	21.76	21.93
5	1	0	16-QAM	22.53	22.06	22.14
5	1	12		22.97	22.31	22.51
5	1	24		22.63	21.95	22.18
5	12	0		21.12	20.75	20.92
5	12	6		21.20	20.76	21.04
5	12	11		21.25	20.71	20.93
5	25	0		21.14	20.75	20.89
10	1	0	QPSK	23.12	22.94	23.05
10	1	24		23.28	23.09	23.18
10	1	49		23.09	22.84	23.04
10	25	0		22.18	21.86	21.98
10	25	12		22.25	21.82	21.97
10	25	24		22.31	21.85	21.96
10	50	0		22.27	21.80	21.96
10	1	0	16-QAM	22.48	22.00	21.75
10	1	24		22.69	22.04	21.92
10	1	49		22.48	21.86	21.80
10	25	0		21.18	20.82	20.93
10	25	12		21.23	20.82	20.97
10	25	24		21.30	20.77	20.93
10	50	0		21.28	20.79	20.96



LTE BAND 4

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.11	22.93	22.98
15	1	37		23.40	23.10	23.35
15	1	74		22.98	22.81	23.03
15	36	0		22.22	21.92	22.10
15	36	18		22.29	21.91	22.09
15	36	39		22.26	21.90	22.08
15	75	0		22.31	21.89	22.09
15	1	0	16-QAM	22.48	21.95	21.94
15	1	38		22.77	22.18	22.34
15	1	75		22.32	21.82	22.01
15	36	0		21.22	20.94	21.03
15	36	18		21.31	20.99	21.01
15	36	39		21.28	20.97	20.99
15	75	0		21.26	20.91	21.06
20	1	0	QPSK	22.99	23.00	22.73
20	1	49		23.37	23.20	23.14
20	1	99		22.79	22.85	22.81
20	50	0		22.18	21.95	21.99
20	50	24		22.23	21.94	22.00
20	50	49		22.24	21.84	22.01
20	100	0		22.22	21.87	22.00
20	1	0	16-QAM	22.28	22.11	21.85
20	1	49		22.59	22.13	22.25
20	1	99		21.99	21.84	22.01
20	50	0		21.23	20.89	20.98
20	50	24		21.24	20.87	21.02
20	50	49		21.31	20.80	20.97
20	100	0		21.24	20.85	20.96



LTE BAND 5

LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	24.16	23.84	23.83
1.4	1	2		24.36	23.94	23.98
1.4	1	5		24.15	23.79	23.87
1.4	3	0		24.15	23.88	23.76
1.4	3	1		24.20	23.91	23.75
1.4	3	2		24.16	23.84	23.72
1.4	6	0		23.37	22.92	22.82
1.4	1	0	16-QAM	23.10	22.92	22.49
1.4	1	2		23.14	23.01	22.65
1.4	1	5		23.04	22.92	22.46
1.4	3	0		23.21	23.02	22.82
1.4	3	1		23.36	23.03	22.82
1.4	3	2		23.05	23.01	22.84
1.4	6	0		22.17	21.98	21.89
3	1	0	QPSK	23.78	23.89	23.93
3	1	7		24.03	24.18	24.29
3	1	14		23.84	23.87	23.95
3	8	0		22.79	22.90	22.85
3	8	4		22.84	22.93	22.85
3	8	7		22.86	22.89	22.80
3	15	0		22.74	22.84	22.77
3	1	0	16-QAM	23.09	22.98	22.61
3	1	7		23.41	23.29	22.76
3	1	14		23.14	22.97	22.52
3	8	0		21.79	21.82	21.73
3	8	4		21.78	21.85	21.76
3	8	7		21.79	21.81	21.72
3	15	0		21.72	21.73	21.76



LTE BAND 5

LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.71	23.84	23.75
5	1	12		24.11	24.31	24.06
5	1	24		23.81	23.84	23.67
5	12	0		22.77	22.83	22.78
5	12	6		22.84	22.92	22.86
5	12	11		22.85	22.80	22.68
5	25	0		22.85	22.86	22.79
5	1	0		16-QAM	23.13	23.01
5	1	12	23.63		23.40	23.28
5	1	24	23.22		23.00	22.82
5	12	0	21.71		21.78	21.86
5	12	6	21.83		21.78	21.84
5	12	11	21.80		21.73	21.71
5	25	0	21.74		21.84	21.71
10	1	0	QPSK		23.74	23.88
10	1	24		23.98	24.04	24.10
10	1	49		23.89	23.89	23.89
10	25	0		22.88	22.90	22.92
10	25	12		22.87	22.87	22.86
10	25	24		22.95	22.90	22.83
10	50	0		22.92	22.88	22.84
10	1	0		16-QAM	23.04	22.94
10	1	24	23.28		23.05	22.69
10	1	49	23.21		22.93	22.52
10	25	0	21.85		21.84	21.88
10	25	12	21.84		21.83	21.81
10	25	24	21.92		21.83	21.77
10	50	0	21.84		21.83	21.81



LTE BAND 7

LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.15	23.18	23.36
5	1	12		23.57	23.65	23.86
5	1	24		23.26	23.19	23.42
5	12	0		22.34	22.19	22.50
5	12	6		22.27	22.30	22.53
5	12	11		22.22	22.34	22.48
5	25	0		22.21	22.29	22.49
5	1	0	16-QAM	22.68	22.48	22.62
5	1	12		22.92	22.86	23.03
5	1	24		22.48	22.50	22.69
5	12	0		20.94	21.08	21.46
5	12	6		20.94	21.24	21.52
5	12	11		21.13	21.25	21.54
5	25	0		20.90	21.25	21.42
10	1	0	QPSK	22.69	23.23	23.59
10	1	24		22.94	23.36	23.70
10	1	49		22.91	23.36	23.58
10	25	0		21.72	22.27	22.51
10	25	12		21.84	22.32	22.48
10	25	24		21.91	22.43	22.57
10	50	0		21.83	22.33	22.53
10	1	0	16-QAM	22.09	22.25	22.21
10	1	24		22.31	22.53	22.47
10	1	49		22.21	22.49	22.28
10	25	0		20.73	21.23	21.45
10	25	12		20.81	21.29	21.48
10	25	24		20.88	21.37	21.55
10	50	0		20.80	21.31	21.49



LTE BAND 7

LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.72	23.09	23.40
15	1	37		23.22	23.51	23.73
15	1	74		22.97	23.29	23.43
15	36	0		21.82	22.25	22.63
15	36	18		21.96	22.29	22.61
15	36	39		22.00	22.43	22.58
15	75	0		21.90	22.37	22.65
15	1	0		16-QAM	21.75	22.41
15	1	38	22.26		22.86	22.69
15	1	75	21.89		22.64	22.57
15	36	0	20.79		21.22	21.59
15	36	18	20.89		21.33	21.57
15	36	39	20.89		21.44	21.62
15	75	0	20.88		21.29	21.53
20	1	0	QPSK		22.52	23.00
20	1	49		23.11	23.48	23.68
20	1	99		22.80	23.26	23.28
20	50	0		21.78	22.17	22.47
20	50	24		21.86	22.29	22.50
20	50	49		21.88	22.45	22.48
20	100	0		21.80	22.32	22.52
20	1	0		16-QAM	21.86	22.03
20	1	49	22.22		22.61	22.70
20	1	99	21.91		22.40	22.48
20	50	0	20.78		21.13	21.46
20	50	24	20.88		21.28	21.46
20	50	49	20.83		21.42	21.47
20	100	0	20.81		21.33	21.45



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	23.71	23.55	23.38
1.4	1	2		23.79	23.66	23.49
1.4	1	5		23.69	23.56	23.25
1.4	3	0		23.37	23.42	23.33
1.4	3	1		23.46	23.45	23.34
1.4	3	2		23.46	23.40	23.25
1.4	6	0		22.61	22.67	22.69
1.4	1	0		16-QAM	22.48	22.54
1.4	1	2	22.60		22.61	22.41
1.4	1	5	22.52		22.48	22.30
1.4	3	0	22.49		22.39	22.41
1.4	3	1	22.50		22.41	22.46
1.4	3	2	22.48		22.43	22.42
1.4	6	0	21.64		21.59	21.62
3	1	0	QPSK		23.61	23.60
3	1	7		23.98	23.80	23.57
3	1	14		23.58	23.56	23.23
3	8	0		22.54	22.59	22.60
3	8	4		22.58	22.59	22.63
3	8	7		22.52	22.54	22.56
3	15	0		22.50	22.45	22.48
3	1	0		16-QAM	22.74	22.54
3	1	7	23.05		22.76	22.53
3	1	14	22.72		22.50	22.34
3	8	0	21.50		21.46	21.40
3	8	4	21.54		21.47	21.34
3	8	7	21.50		21.45	21.37
3	15	0	21.50		21.41	21.38



LTE BAND 12

LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.56	23.54	23.43
5	1	12		23.84	23.80	23.56
5	1	24		23.56	23.58	23.07
5	12	0		22.51	22.45	22.53
5	12	6		22.54	22.48	22.52
5	12	11		22.50	22.51	22.46
5	25	0		22.55	22.56	22.56
5	1	0	16-QAM	22.69	22.61	22.43
5	1	12		23.11	22.86	22.82
5	1	24		22.75	22.50	22.58
5	12	0		21.48	21.47	21.51
5	12	6		21.52	21.48	21.55
5	12	11		21.49	21.43	21.33
5	25	0		21.50	21.51	21.54
10	1	0	QPSK	23.58	23.55	23.64
10	1	24		23.70	23.65	23.79
10	1	49		23.60	23.57	23.14
10	25	0		22.59	22.55	22.62
10	25	12		22.60	22.60	22.59
10	25	24		22.60	22.52	22.52
10	50	0		22.56	22.54	22.59
10	1	0	16-QAM	22.71	22.52	22.33
10	1	24		22.88	22.63	22.30
10	1	49		22.68	22.42	22.39
10	25	0		21.58	21.54	21.61
10	25	12		21.60	21.55	21.57
10	25	24		21.60	21.47	21.49
10	50	0		21.52	21.50	21.58



LTE BAND 13

LTE Band 13 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.00	23.91	23.76
5	1	12		24.26	24.27	24.05
5	1	24		23.72	23.82	23.93
5	12	0		22.82	22.86	22.84
5	12	6		22.87	22.93	22.90
5	12	11		22.84	22.88	22.88
5	25	0		22.87	22.93	22.94
5	1	0	16-QAM	22.97	22.87	23.11
5	1	12		23.34	23.51	23.42
5	1	24		23.21	23.10	22.80
5	12	0		21.83	21.82	21.87
5	12	6		21.89	21.93	21.96
5	12	11		21.87	21.90	21.87
5	25	0		21.82	21.94	21.85
10	1	0	QPSK	/	24.01	/
10	1	24		/	23.93	/
10	1	49		/	24.04	/
10	25	0		/	22.95	/
10	25	12		/	22.92	/
10	25	24		/	23.05	/
10	50	0		/	22.97	/
10	1	0	16-QAM	/	22.72	/
10	1	24		/	23.05	/
10	1	49		/	22.72	/
10	25	0		/	21.80	/
10	25	12		/	21.67	/
10	25	24		/	21.84	/
10	50	0		/	21.83	/



LTE BAND 17

LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.20	24.24	24.35
5	1	12		24.58	24.57	24.50
5	1	24		24.23	24.27	24.00
5	12	0		23.19	23.14	23.21
5	12	6		23.21	23.16	23.19
5	12	11		23.15	23.16	23.11
5	25	0		23.14	23.19	23.20
5	1	0	16-QAM	23.35	23.40	23.15
5	1	12		23.57	23.70	23.58
5	1	24		23.37	23.28	23.20
5	12	0		22.07	22.15	22.20
5	12	6		22.12	22.22	22.20
5	12	11		22.12	22.21	21.97
5	25	0		22.10	22.16	22.28
10	1	0	QPSK	24.40	24.29	24.27
10	1	24		24.53	24.45	24.44
10	1	49		24.45	24.26	24.08
10	25	0		23.26	23.22	23.23
10	25	12		23.26	23.27	23.22
10	25	24		23.15	23.19	23.21
10	50	0		23.21	23.23	23.17
10	1	0	16-QAM	23.05	23.42	23.20
10	1	24		23.11	23.47	23.16
10	1	49		22.97	23.38	23.21
10	25	0		22.31	22.30	22.27
10	25	12		22.28	22.31	22.28
10	25	24		22.19	22.20	22.21
10	50	0		22.21	22.22	22.27



LTE BAND 26 Part22 (824-849)

LTE Band 26 Part22(824-849)Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.69	23.60	23.66
1.4	1	2		23.85	23.76	23.84
1.4	1	5		23.68	23.58	23.66
1.4	3	0		23.59	23.69	23.61
1.4	3	1		23.59	23.68	23.62
1.4	3	2		23.61	23.67	23.58
1.4	6	0		22.66	22.69	22.68
1.4	1	0	16-QAM	22.64	22.72	22.33
1.4	1	2		22.77	22.78	22.47
1.4	1	5		22.65	22.71	22.31
1.4	3	0		22.75	22.82	22.66
1.4	3	1		22.76	22.85	22.66
1.4	3	2		22.73	22.82	22.67
1.4	6	0		21.74	21.74	21.75
3	1	0	QPSK	23.58	23.78	23.63
3	1	7		23.90	24.04	23.82
3	1	14		23.61	23.78	23.63
3	8	0		22.60	22.67	22.64
3	8	4		22.64	22.68	22.64
3	8	7		22.64	22.66	22.62
3	15	0		22.54	22.64	22.54
3	1	0	16-QAM	22.92	22.48	22.89
3	1	7		23.19	22.72	23.19
3	1	14		22.92	22.44	22.83
3	8	0		21.56	21.57	21.59
3	8	4		21.58	21.59	21.60
3	8	7		21.57	21.60	21.56
3	15	0		21.51	21.66	21.52



LTE Band 26 Part22(824-849)Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.17	24.12	24.18
5	1	12		24.57	24.37	24.57
5	1	24		24.25	24.10	24.09
5	12	0		23.18	23.20	23.14
5	12	6		23.22	23.25	23.16
5	12	11		23.17	23.19	23.09
5	25	0		23.16	23.22	23.14
5	1	0	16-QAM	23.28	23.34	23.43
5	1	12		23.55	23.65	23.77
5	1	24		23.35	23.30	23.38
5	12	0		22.09	22.18	22.06
5	12	6		22.12	22.24	22.11
5	12	11		22.10	22.16	22.03
5	25	0		22.10	22.13	22.04
10	1	0	QPSK	24.14	24.22	24.33
10	1	24		24.34	24.34	24.47
10	1	49		24.25	24.25	24.30
10	25	0		23.24	23.21	23.25
10	25	12		23.21	23.22	23.16
10	25	24		23.26	23.20	23.10
10	50	0		23.23	23.18	23.16
10	1	0	16-QAM	23.38	23.21	22.91
10	1	24		23.56	23.36	23.02
10	1	49		23.51	23.23	22.85
10	25	0		22.19	22.18	22.18
10	25	12		22.15	22.16	22.06
10	25	24		22.21	22.11	22.05
10	50	0		22.20	22.19	22.07



LTE Band 26 Part22(824-849)Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	24.05	24.09	24.16
15	1	37		24.54	24.43	24.59
15	1	74		24.17	24.16	24.09
15	36	0		23.28	23.31	23.34
15	36	18		23.33	23.38	23.39
15	36	39		23.35	23.33	23.30
15	75	0		23.34	23.34	23.35
15	1	0	16-QAM	23.06	23.34	23.18
15	1	38		23.46	23.67	23.52
15	1	75		23.19	23.37	23.06
15	36	0		22.14	22.22	22.31
15	36	18		22.21	22.28	22.27
15	36	39		22.21	22.23	22.26
15	75	0		22.28	22.20	22.22



LTE BAND 26 Part90 (814-824)

LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	24.14	24.17	24.24
1.4	1	2		24.29	24.35	24.39
1.4	1	5		24.11	24.19	24.21
1.4	3	0		24.18	24.12	24.08
1.4	3	1		24.22	24.16	24.14
1.4	3	2		24.21	24.10	24.11
1.4	6	0		23.17	23.19	23.22
1.4	1	0	16-QAM	23.23	22.86	23.14
1.4	1	2		23.37	23.02	23.25
1.4	1	5		23.27	22.84	23.14
1.4	3	0		23.38	23.19	23.26
1.4	3	1		23.38	23.23	23.27
1.4	3	2		23.37	23.21	23.24
1.4	6	0		22.31	22.26	22.25
3	1	0	QPSK	24.20	24.14	24.17
3	1	7		24.43	24.36	24.49
3	1	14		24.15	24.15	24.27
3	8	0		23.15	23.14	23.11
3	8	4		23.19	23.16	23.13
3	8	7		23.21	23.15	23.11
3	15	0		23.11	23.11	23.09
3	1	0	16-QAM	23.56	23.20	22.91
3	1	7		23.69	23.48	23.16
3	1	14		23.41	23.21	22.90
3	8	0		22.10	22.06	22.03
3	8	4		22.16	22.06	22.02
3	8	7		22.12	22.03	22.02
3	15	0		22.08	21.97	22.06



LTE Band 26 Part90(814-824)Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.09	24.08	24.10
5	1	12		24.54	24.34	24.45
5	1	24		24.03	24.07	24.12
5	12	0		23.11	23.09	23.03
5	12	6		23.21	23.15	23.12
5	12	11		23.13	23.07	23.05
5	25	0		23.16	23.11	23.10
5	1	0	16-QAM	23.33	23.45	23.23
5	1	12		23.63	23.71	23.57
5	1	24		23.23	23.48	23.28
5	12	0		22.08	22.04	21.97
5	12	6		22.19	22.08	22.06
5	12	11		22.12	22.01	21.96
5	25	0		22.07	21.99	22.08
10	1	0	QPSK	N/A	24.14	N/A
10	1	24		N/A	24.25	N/A
10	1	49		N/A	24.13	N/A
10	25	0		N/A	23.16	N/A
10	25	12		N/A	23.11	N/A
10	25	24		N/A	23.14	N/A
10	50	0		N/A	23.12	N/A
10	1	0	16-QAM	N/A	23.47	N/A
10	1	24		N/A	23.50	N/A
10	1	49		N/A	23.41	N/A
10	25	0		N/A	22.10	N/A
10	25	12		N/A	22.08	N/A
10	25	24		N/A	22.09	N/A
10	50	0		N/A	22.08	N/A



LTE BAND 41

LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	21.74	21.56	20.89
5	1	12		21.98	21.81	21.18
5	1	24		21.69	21.48	20.93
5	12	0		20.59	20.56	19.86
5	12	6		20.65	20.53	19.91
5	12	11		20.54	20.47	19.90
5	25	0		20.58	20.50	19.89
5	1	0		16-QAM	20.84	20.67
5	1	12	20.94		20.91	20.57
5	1	24	20.68		20.59	20.31
5	12	0	19.44		19.46	18.85
5	12	6	19.56		19.47	18.87
5	12	11	19.47		19.45	18.82
5	25	0	19.52		19.34	18.83
10	1	0	QPSK		21.79	21.75
10	1	24		21.86	21.82	21.12
10	1	49		21.72	21.62	20.97
10	25	0		20.64	20.60	19.94
10	25	12		20.65	20.52	19.91
10	25	24		20.62	20.57	19.92
10	50	0		20.60	20.53	19.92
10	1	0		16-QAM	20.99	20.62
10	1	24	21.06		20.71	19.92
10	1	49	20.93		20.51	19.81
10	25	0	19.56		19.47	18.90
10	25	12	19.60		19.42	18.86
10	25	24	19.54		19.47	18.84
10	50	0	19.54		19.45	18.89



LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	21.73	21.70	21.16
15	1	37		21.99	21.97	21.39
15	1	74		21.64	21.52	21.03
15	36	0		20.77	20.72	20.08
15	36	18		20.79	20.70	20.01
15	36	39		20.76	20.66	19.96
15	75	0		20.79	20.68	20.06
15	1	0		16-QAM	20.92	20.56
15	1	38	21.18		20.83	20.35
15	1	75	20.84		20.45	20.00
15	36	0	19.72		19.69	18.98
15	36	18	19.72		19.64	18.98
15	36	39	19.69		19.60	18.85
15	75	0	19.60		19.56	19.03
20	1	0	QPSK		21.59	21.63
20	1	49		21.95	21.91	21.26
20	1	99		21.56	21.40	20.81
20	50	0		20.61	20.56	20.02
20	50	24		20.62	20.52	19.91
20	50	49		20.61	20.50	19.87
20	100	0		20.61	20.51	19.96
20	1	0		16-QAM	20.57	20.46
20	1	49	20.88		20.79	20.22
20	1	99	20.51		20.33	19.78
20	50	0	19.59		19.45	19.02
20	50	24	19.60		19.41	18.92
20	50	49	19.55		19.41	18.85
20	100	0	19.54		19.44	18.96



LTE BAND 66

LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.13	22.98	22.70
1.4	1	2		23.27	23.12	22.83
1.4	1	5		23.10	22.97	22.66
1.4	3	0		23.20	22.89	22.71
1.4	3	1		23.23	22.93	22.70
1.4	3	2		23.20	22.91	22.64
1.4	6	0		22.12	21.95	21.80
1.4	1	0		16-QAM	22.21	21.59
1.4	1	2	22.36		21.80	21.84
1.4	1	5	22.27		21.60	21.72
1.4	3	0	22.37		22.01	21.78
1.4	3	1	22.39		22.00	21.79
1.4	3	2	22.41		22.04	21.76
1.4	6	0	21.26		21.05	20.78
3	1	0	QPSK		24.05	23.56
3	1	7		24.05	24.12	23.98
3	1	14		23.98	24.02	23.89
3	8	0		23.93	23.85	23.76
3	8	4		23.84	23.69	23.65
3	8	7		23.83	23.56	23.58
3	15	0		23.64	23.55	23.38
3	1	0		16-QAM	24.11	23.97
3	1	7	23.87		24.08	23.97
3	1	14	23.90		23.89	23.71
3	8	0	23.80		23.77	23.72
3	8	4	23.67		23.51	23.57
3	8	7	23.73		23.56	23.49
3	15	0	23.50		23.54	23.25



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.06	22.84	22.59
5	1	12		23.50	23.39	23.14
5	1	24		23.14	22.92	22.67
5	12	0		22.17	21.86	21.64
5	12	6		22.27	21.92	21.67
5	12	11		22.30	21.83	21.56
5	25	0		22.27	21.88	21.60
5	1	0	16-QAM	22.53	22.02	21.92
5	1	12		22.96	22.53	22.24
5	1	24		22.69	22.13	21.96
5	12	0		21.20	20.81	20.58
5	12	6		21.30	20.84	20.62
5	12	11		21.28	20.82	20.54
5	25	0		21.21	20.85	20.53
10	1	0	QPSK	23.16	23.01	22.69
10	1	24		23.36	23.14	22.80
10	1	49		23.21	23.07	22.73
10	25	0		22.22	21.92	21.73
10	25	12		22.30	21.93	21.64
10	25	24		22.38	21.90	21.66
10	50	0		22.37	21.90	21.70
10	1	0	16-QAM	22.31	21.61	22.01
10	1	24		22.48	21.79	22.03
10	1	49		22.30	21.78	21.96
10	25	0		21.21	20.88	20.71
10	25	12		21.28	20.87	20.59
10	25	24		21.32	20.91	20.60
10	50	0		21.36	20.87	20.65



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.21	22.84	22.75
15	1	37		23.64	23.23	22.99
15	1	74		23.13	22.96	22.71
15	36	0		22.26	22.04	21.80
15	36	18		22.38	22.06	21.82
15	36	39		22.36	22.06	21.81
15	75	0		22.32	22.08	21.84
15	1	0	16-QAM	22.18	22.04	21.85
15	1	38		22.63	22.48	22.01
15	1	75		22.08	22.27	21.67
15	36	0		21.23	20.97	20.81
15	36	18		21.24	21.07	20.84
15	36	39		21.28	21.02	20.78
15	75	0		21.36	20.98	20.72
20	1	0	QPSK	22.96	22.72	22.78
20	1	49		23.35	23.21	22.97
20	1	99		22.81	22.84	22.67
20	50	0		22.18	21.98	21.82
20	50	24		22.29	22.00	21.78
20	50	49		22.28	21.99	21.62
20	100	0		22.22	21.98	21.74
20	1	0	16-QAM	22.16	21.84	21.97
20	1	49		22.52	22.32	22.04
20	1	99		21.90	22.08	21.59
20	50	0		21.22	20.97	20.79
20	50	24		21.29	21.01	20.71
20	50	49		21.32	21.00	20.59
20	100	0		21.26	20.99	20.71



9.2 SAR Test Exclusions Applied

Standalone SAR test exclusion applies 447498 D04 Interim General Radio Frequency Exposure Guidelines v01. The available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold Pth (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by:

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

Where

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

and

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

d = the separation distance (cm);

Function	Fre. (GHz)	Separation distance (cm)	Max Turn up power (dBm)	Max Turn up power (mW)	Pth (mW)
BT	2.480	≤0.5	1	1.26	2.72

Note: The Maximum power is less than the Pth, complies with the exemption requirements.

10. EUT and Test Setup Photo

10.1 EUT Photo

Front side

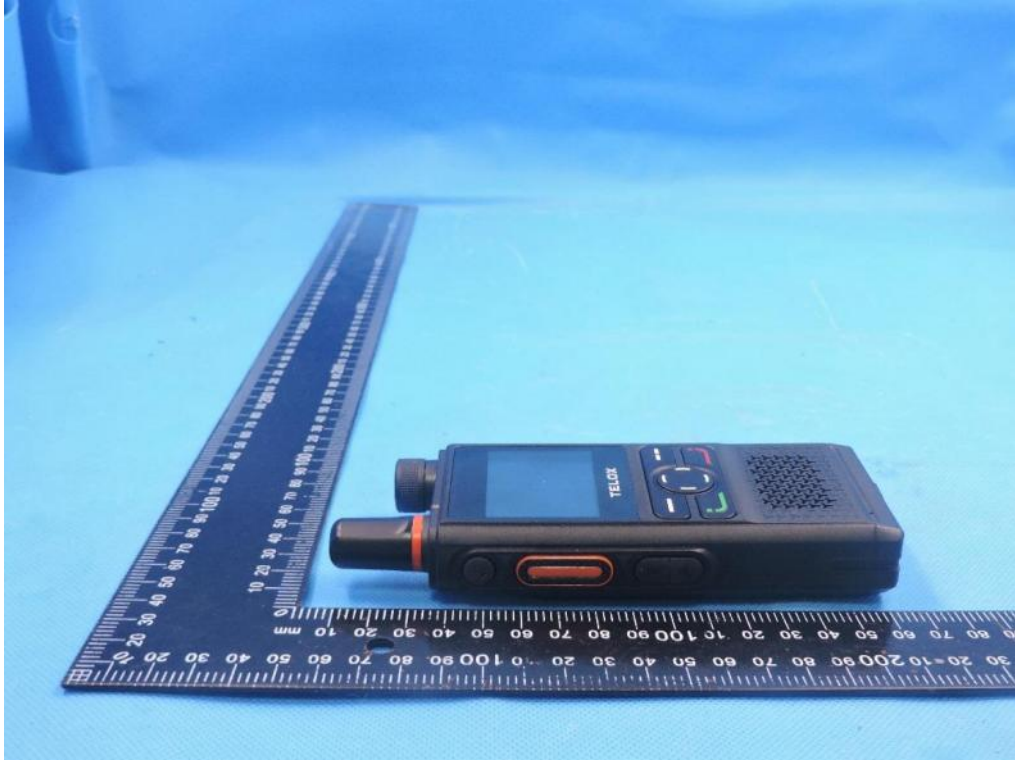


Back side





Left Edge



Right Edge

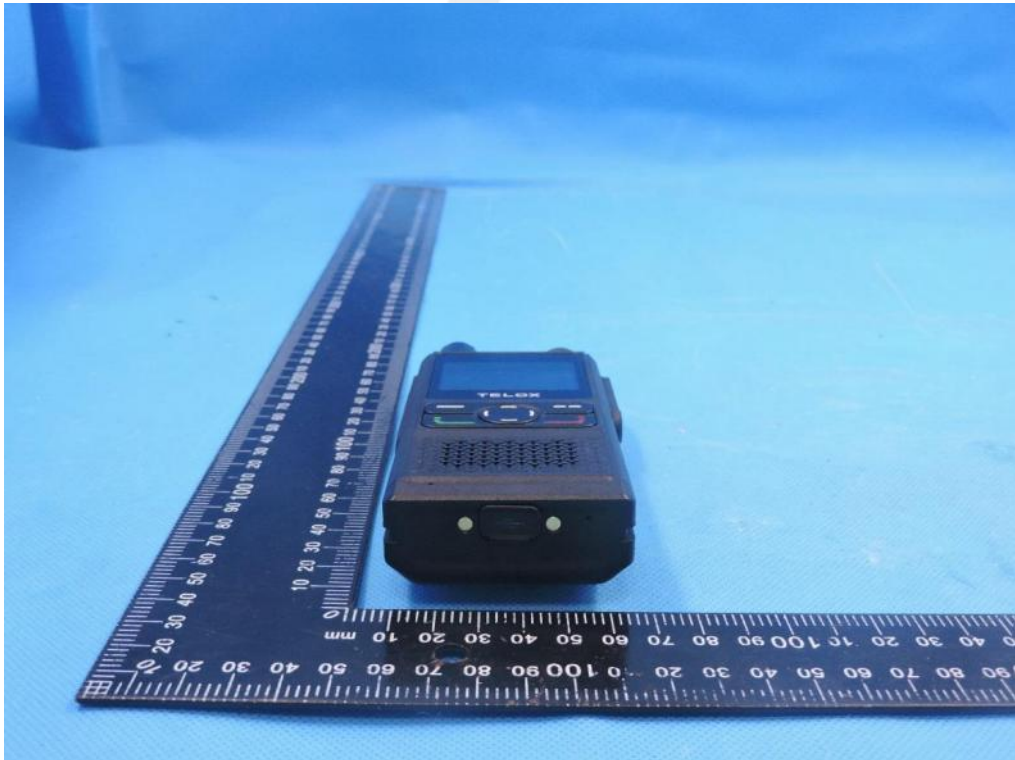




Top Edge

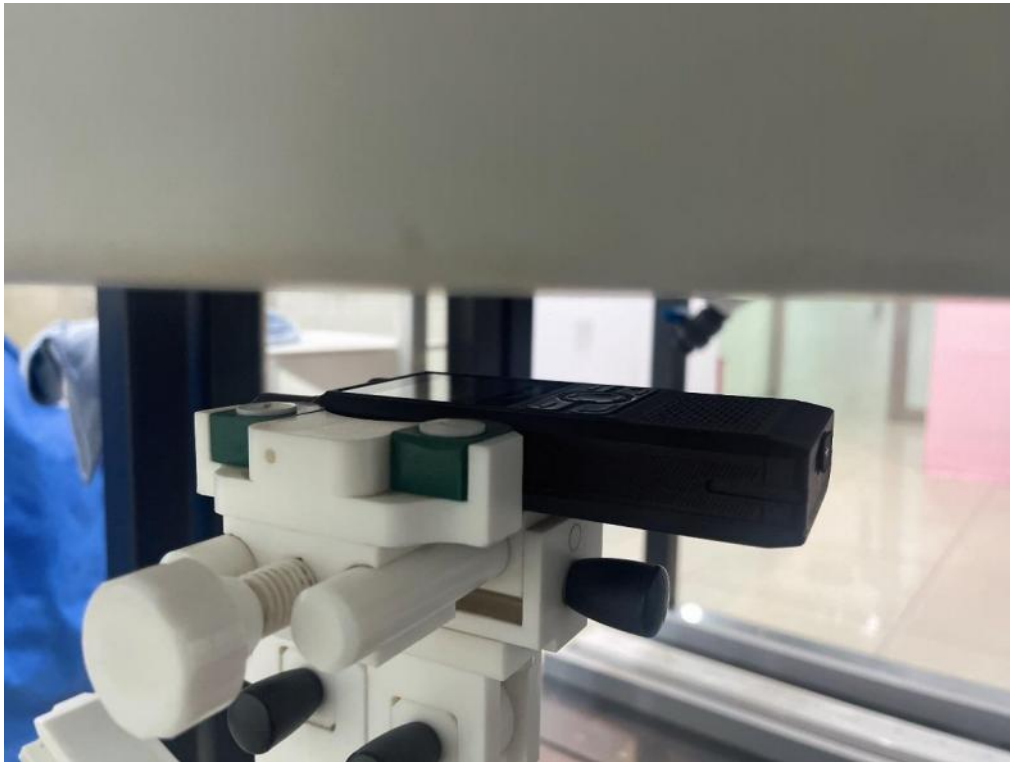


Bottom Edge

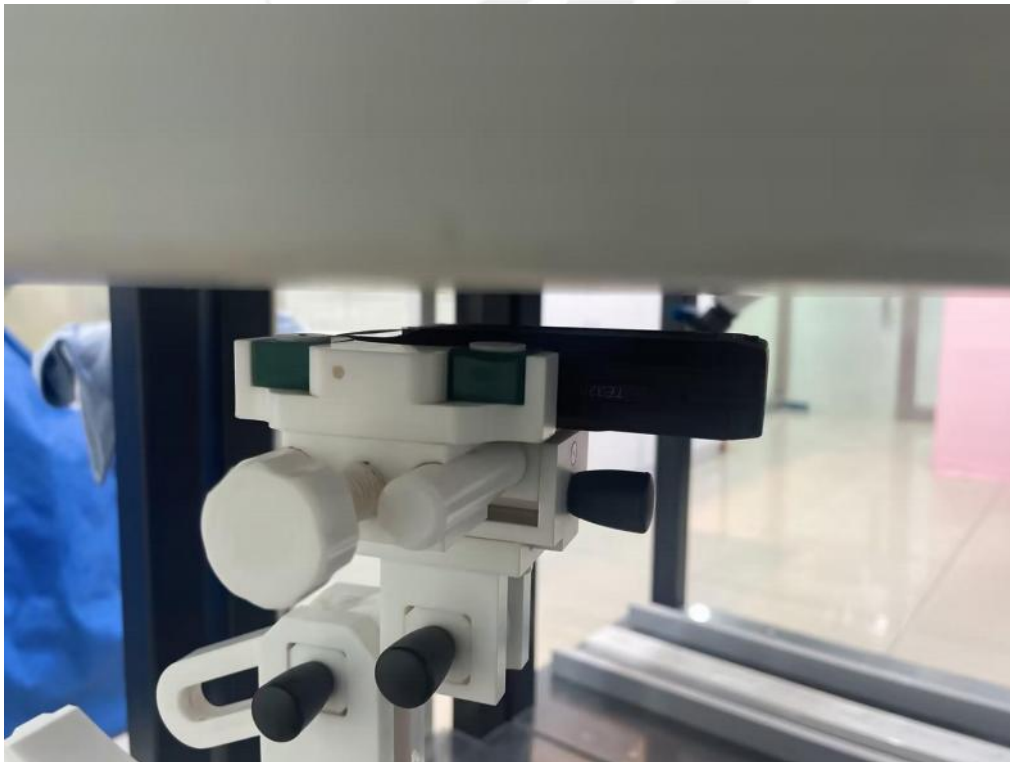


10.2 Setup Photo

Front of face(25mm)



Back Side(10mm)



Back side with back clip(0mm)



Left Edge(10mm)



Right Edge(10mm)



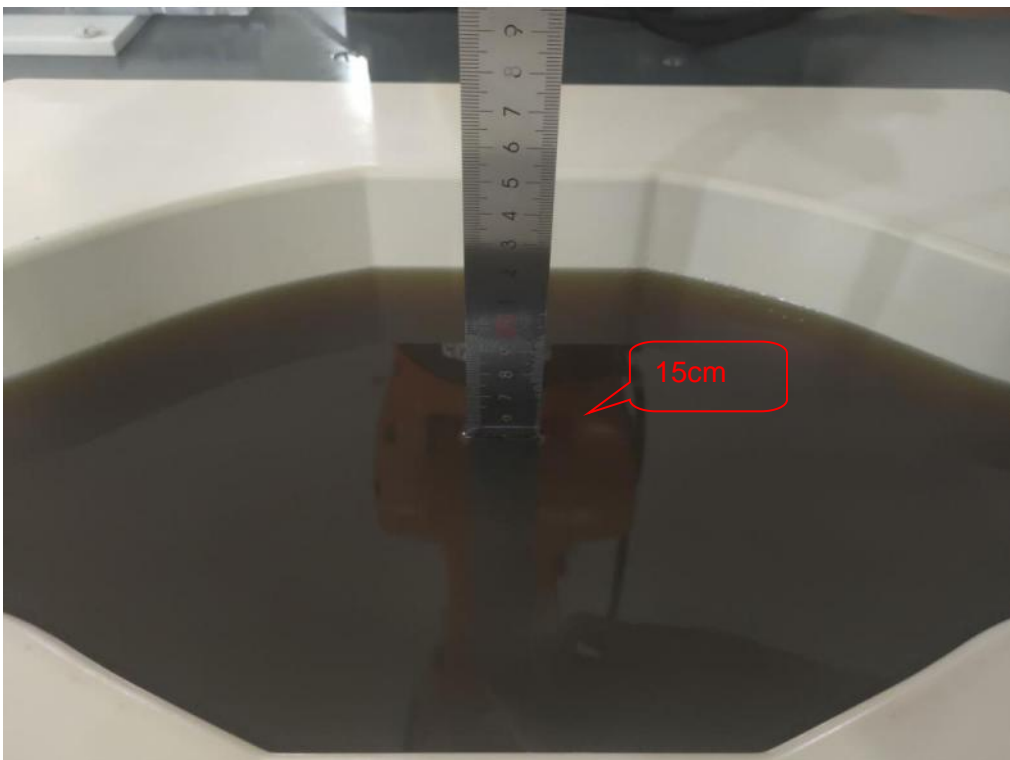
Bottom Edge(10mm)



Top Edge(10mm)



Liquid depth (15 cm)





11. SAR Result Summary

11.1 Front of face SAR

Band	Model	Test Position	Freq.	SAR (1g) (W/kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR (W/Kg)	Meas.No.
GSM850	GPRS	Front Side	824.2	0.344	-0.82	29.50	29.30	0.360	1
	Data-4	Front Side	836.6	0.223	0.77	29.50	28.98	0.251	/
	Slot	Front Side	848.8	0.288	-0.61	29.50	28.82	0.337	/
GSM1900	GPRS Data-4 Slot	Front Side	1909.8	0.172	2.86	27.00	26.87	0.177	4
WCDMA Band 2	RMC	Front Side	1952.4	0.132	-1.53	23.00	22.65	0.143	7
WCDMA Band 4	RMC	Front Side	1712.6	0.117	-1.72	22.00	21.78	0.123	10
WCDMA Band 5	RMC	Front Side	826.4	0.265	-1.55	24.00	23.52	0.296	13
2.4GHz WLAN	802.11b	Front Side	2462	0.017	-2.59	9.00	8.75	0.018	16
5.2GHz WLAN	802.11a	Front Side	5180	0.060	-3.43	6.50	6.27	0.063	19
5.8GHz WLAN	802.11a	Front Side	5745	0.065	-0.32	9.50	9.41	0.066	22



Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Result 1g (W/Kg)	Power Drift(%)	Max. Turn-up Power(dBm)	Meas. Output Power(dBm)	Scaled SAR (W/Kg)	Meas.No.
LTE Band 2	20M	QPSK	1	49	Front side	1880	0.079	0.64	24	23.97	0.080	25
			50	0	Front side	1900	0.068	2.97	23	22.88	0.070	/
LTE Band 4	20M	QPSK	1	49	Front side	1720	0.117	-1.62	23.5	23.37	0.121	28
			50	49	Front side	1720	0.101	-3.44	23	22.24	0.120	/
LTE Band 5	10M	QPSK	1	24	Front side	844	0.243	1.12	24.5	24.1	0.266	31
			25	24	Front side	829	0.221	3.40	23	22.96	0.223	/
LTE Band 7	20M	QPSK	1	49	Front side	2560	0.067	0.14	24	23.68	0.072	34
			50	24	Front side	2560	0.059	1.85	23	22.5	0.066	/
LTE Band 12	10M	QPSK	1	24	Front side	711	0.163	1.66	24	23.79	0.171	37
			25	0	Front side	711	0.142	-3.00	23	22.62	0.155	/
LTE Band 13	10M	QPSK	1	49	Front side	782	0.278	0.74	24.5	24.04	0.309	40
			25	24	Front side	782	0.263	-2.98	23.5	23.05	0.292	/
LTE Band 17	10M	QPSK	1	24	Front side	709	0.230	-0.20	25	24.53	0.256	43
			25	12	Front side	710	0.210	2.00	24	23.27	0.248	/
LTE Band 26	15M	QPSK	1	37	Front side	841.5	0.256	-1.05	25	24.59	0.281	46
			36	18	Front side	841.5	0.217	2.47	24	23.39	0.250	/
LTE Band 41	20M	QPSK	1	49	Front side	2506	0.054	-2.43	22	21.95	0.055	49
			50	24	Front side	2506	0.049	-0.88	21	20.62	0.053	/
LTE Band 66	20M	QPSK	1	49	Front side	1720	0.140	1.61	23.5	23.35	0.145	52
			50	24	Front side	1720	0.111	0.03	23	22.29	0.131	/

Note:

1. 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. For WWAN: Scaled SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
2. Per KDB 248227- When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg. (The highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power was **0.017** W/Kg for Front of face)
3. Per KDB865664 D01, Repeated measurement is not required when the original highest measured SAR is <0.80 W/kg



11.2 Body SAR

Band	Model	Test Position	Freq.	SAR (1g) (W/kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR (W/Kg)	Meas.No.
GSM850	GPRS Data-4 Slot	Back side with back clip(0mm)	824.2	0.566	0.46	29.50	29.30	0.593	2
		Back Side	824.2	0.662	3.66	29.50	29.30	0.693	3
		Back Side	836.6	0.599	0.02	29.50	28.98	0.675	/
		Back Side	848.8	0.526	-1.85	29.50	28.82	0.615	/
		Left Side	824.2	0.441	2.14	29.50	29.30	0.462	/
		Right Side	824.2	0.32	2.43	29.50	29.30	0.335	/
		Top Side	824.2	0.1	0.06	29.50	29.30	0.105	/
		Bottom Side	824.2	0.222	-0.45	29.50	29.30	0.232	/
GSM1900	GPRS Data-4 Slot	Back side with back clip(0mm)	1909.8	0.508	-3.25	27.00	26.87	0.523	5
		Back Side	1909.8	0.515	1.89	27.00	26.87	0.531	6
		Left Side	1909.8	0.236	3.12	27.00	26.87	0.243	/
		Right Side	1909.8	0.328	-1.32	27.00	26.87	0.338	/
		Top Side	1909.8	0.099	0.62	27.00	26.87	0.102	/
		Bottom Side	1909.8	0.233	-2.81	27.00	26.87	0.240	/
WCDMA Band 2	RMC	Back side with back clip(0mm)	1952.4	0.363	-2.05	23.00	22.65	0.393	8
		Back Side	1952.4	0.382	-2.68	23.00	22.65	0.414	9
		Left Side	1952.4	0.154	-1.26	23.00	22.65	0.167	/
		Right Side	1952.4	0.136	-2.66	23.00	22.65	0.147	/
		Top Side	1952.4	0.025	-0.29	23.00	22.65	0.027	/
		Bottom Side	1952.4	0.102	1.59	23.00	22.65	0.111	/



WCDMA Band 4	RMC	Back side with back clip(0mm)	1712.6	0.325	2.43	22.00	21.78	0.342	11
		Back Side	1712.6	0.301	2.79	22.00	21.78	0.317	12
		Left Side	1712.6	0.169	0.74	22.00	21.78	0.178	/
		Right Side	1712.6	0.133	-0.50	22.00	21.78	0.140	/
		Top Side	1712.6	0.052	-2.80	22.00	21.78	0.055	/
		Bottom Side	1712.6	0.136	-1.17	22.00	21.78	0.143	/
WCDMA Band 5	RMC	Back side with back clip(0mm)	826.4	0.539	-0.95	24.00	23.52	0.602	14
		Back Side	826.4	0.420	-0.97	24.00	23.52	0.469	15
		Left Side	826.4	0.214	-0.41	24.00	23.52	0.239	/
		Right Side	826.4	0.233	3.85	24.00	23.52	0.260	/
		Top Side	826.4	0.102	-2.93	24.00	23.52	0.114	/
		Bottom Side	826.4	0.214	0.99	24.00	23.52	0.239	/
2.4GHz WLAN	802.11b	Back side with back clip(0mm)	2462	0.097	2.96	9.00	8.75	0.103	17
		Back Side	2462	0.053	-2.97	9.00	8.75	0.056	18
		Left Side	2462	0.021	-2.25	9.00	8.75	0.022	/
		Right Side	2462	0.022	2.26	9.00	8.75	0.023	/
		Top Side	2462	0.010	3.04	9.00	8.75	0.011	/
		Bottom Side	2462	0.021	-1.58	9.00	8.75	0.022	/
5.2GHz WLAN	802.11a	Back side with back clip(0mm)	5180	0.070	1.41	6.50	6.27	0.074	20
		Back Side	5180	0.057	-0.11	6.50	6.27	0.060	21
		Left Side	5180	0.041	-2.42	6.50	6.27	0.043	/
		Right Side	5180	0.036	-0.99	6.50	6.27	0.038	/
		Top Side	5180	0.022	3.59	6.50	6.27	0.023	/
		Bottom Side	5180	0.010	0.79	6.50	6.27	0.011	/



5.8GHz WLAN	802.11a	Back side with back clip(0mm)	5745	0.101	0.12	9.50	9.41	0.103	23
		Back Side	5745	0.075	-3.97	9.50	9.41	0.077	24
		Left Side	5745	0.023	1.83	9.50	9.41	0.023	/
		Right Side	5745	0.035	0.58	9.50	9.41	0.036	/
		Top Side	5745	0.022	-0.91	9.50	9.41	0.022	/
		Bottom Side	5745	0.013	1.94	9.50	9.41	0.013	/

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Result 1g (W/Kg)	Power Drift(%)	Max. Turn-up Power(dBm)	Meas. Output Power(dBm)	Scaled SAR (W/Kg)	Meas.No.
LTE Band 2	20M	QPSK	1	49	Back side with back clip(0mm)	1880	0.435	2.48	24	23.97	0.438	26
			50	0	Back side with back clip(0mm)	1900	0.325	3.69	23	22.88	0.334	/
			1	49	Back Side	1880	0.414	-0.47	24	23.97	0.417	27
			50	0	Back Side	1900	0.388	-2.49	23	22.88	0.399	/
			1	49	Left Side	1880	0.225	2.72	24	23.97	0.227	/
			50	0	Left Side	1900	0.231	-2.46	23	22.88	0.237	/
			1	49	Right Side	1880	0.210	-0.15	24	23.97	0.211	/
			50	0	Right Side	1900	0.233	-2.03	23	22.88	0.240	/
			1	49	Top Side	1880	0.102	-3.16	24	23.97	0.103	/
			50	0	Top Side	1900	0.088	-2.11	23	22.88	0.090	/
			1	49	Bottom Side	1880	0.210	3.81	24	23.97	0.211	/
			50	0	Bottom Side	1900	0.198	-1.66	23	22.88	0.204	/
LTE Band 4	20M	QPSK	1	49	Back side with back clip(0mm)	1720	0.377	3.70	23.5	23.37	0.388	29
			50	49	Back side with back clip(0mm)	1720	0.315	-2.20	23	22.24	0.375	/
			1	49	Back Side	1720	0.344	3.87	23.5	23.37	0.354	30
			50	49	Back Side	1720	0.301	3.83	23	22.24	0.359	/
			1	49	Left Side	1720	0.154	-1.46	23.5	23.37	0.159	/
			50	49	Left Side	1720	0.136	-1.89	23	22.24	0.162	/
			1	49	Right Side	1720	0.102	-3.92	23.5	23.37	0.105	/
			50	49	Right Side	1720	0.121	-2.89	23	22.24	0.144	/
			1	49	Top Side	1720	0.025	-1.44	23.5	23.37	0.026	/
			50	49	Top Side	1720	0.023	2.06	23	22.24	0.027	/



			1	49	Bottom Side	1720	0.102	-2.07	23.5	23.37	0.105	/
			50	49	Bottom Side	1720	0.098	-2.40	23	22.24	0.117	/
LTE Band 5	10M	QPSK	1	24	Back side with back clip(0mm)	844	0.634	-3.02	24.5	24.1	0.695	32
			25	24	Back side with back clip(0mm)	829	0.562	-3.00	23	22.96	0.567	/
			1	24	Back Side	844	0.285	-2.16	24.5	24.1	0.312	33
			25	24	Back Side	829	0.210	-1.06	23	22.96	0.212	/
			1	24	Left Side	844	0.112	3.23	24.5	24.1	0.123	/
			25	24	Left Side	829	0.117	2.06	23	22.96	0.118	/
			1	24	Right Side	844	0.102	-0.49	24.5	24.1	0.112	/
			25	24	Right Side	829	0.103	-3.32	23	22.96	0.104	/
			1	24	Top Side	844	0.021	0.37	24.5	24.1	0.023	/
			25	24	Top Side	829	0.033	3.90	23	22.96	0.033	/
			1	24	Bottom Side	844	0.085	-2.29	24.5	24.1	0.093	/
			25	24	Bottom Side	829	0.074	0.21	23	22.96	0.075	/
LTE Band 7	20M	QPSK	1	49	Back side with back clip(0mm)	2510	0.598	-2.94	24	23.11	0.734	/
			1	49	Back side with back clip(0mm)	2535	0.620	1.49	24	23.48	0.699	/
			1	49	Back side with back clip(0mm)	2560	0.691	-2.54	24	23.68	0.744	35
			50	24	Back side with back clip(0mm)	2560	0.521	-1.42	23	22.5	0.585	/
			1	49	Back Side	2560	0.494	2.67	24	23.68	0.532	36
			50	24	Back Side	2560	0.412	-1.64	23	22.5	0.462	/
			1	49	Left Side	2560	0.216	3.38	24	23.68	0.233	/
			50	24	Left Side	2560	0.236	-1.16	23	22.5	0.265	/
			1	49	Right Side	2560	0.210	-3.69	24	23.68	0.226	/
			50	24	Right Side	2560	0.199	1.12	23	22.5	0.223	/
			1	49	Top Side	2560	0.025	-0.52	24	23.68	0.027	/
			50	24	Top Side	2560	0.026	-3.71	23	22.5	0.029	/
1	49	Bottom Side	2560	0.145	-1.48	24	23.68	0.156	/			
50	24	Bottom Side	2560	0.136	0.60	23	22.5	0.153	/			



LTE Band 12	10M	QPSK	1	24	Back side with back clip(0mm)	711	0.481	-0.95	24	23.79	0.505	38
			25	0	Back side with back clip(0mm)	711	0.452	-3.14	23	22.62	0.493	/
			1	24	Back Side	711	0.414	0.81	24	23.79	0.435	39
			25	0	Back Side	711	0.366	3.45	23	22.62	0.399	/
			1	24	Left Side	711	0.256	0.80	24	23.79	0.269	/
			25	0	Left Side	711	0.236	-0.89	23	22.62	0.258	/
			1	24	Right Side	711	0.211	2.79	24	23.79	0.221	/
			25	0	Right Side	711	0.202	-1.90	23	22.62	0.220	/
			1	24	Top Side	711	0.102	-2.30	24	23.79	0.107	/
			25	0	Top Side	711	0.100	-2.82	23	22.62	0.109	/
			1	24	Bottom Side	711	0.156	3.64	24	23.79	0.164	/
			25	0	Bottom Side	711	0.136	-2.56	23	22.62	0.148	/
LTE Band 13	10M	QPSK	1	49	Back side with back clip(0mm)	782	0.595	-3.29	24.5	24.04	0.661	41
			25	24	Back side with back clip(0mm)	782	0.566	0.99	23.5	23.05	0.628	/
			1	49	Back Side	782	0.508	-3.65	24.5	24.04	0.565	42
			25	24	Back Side	782	0.485	3.18	23.5	23.05	0.538	/
			1	49	Left Side	782	0.210	0.41	24.5	24.04	0.233	/
			25	24	Left Side	782	0.203	2.35	23.5	23.05	0.225	/
			1	49	Right Side	782	0.102	1.98	24.5	24.04	0.113	/
			25	24	Right Side	782	0.103	2.89	23.5	23.05	0.114	/
			1	49	Top Side	782	0.052	3.99	24.5	24.04	0.058	/
			25	24	Top Side	782	0.025	2.56	23.5	23.05	0.028	/
			1	49	Bottom Side	782	0.088	3.67	24.5	24.04	0.098	/
			25	24	Bottom Side	782	0.087	-3.83	23.5	23.05	0.096	/
LTE Band 17	10M	QPSK	1	24	Back side with back clip(0mm)	709	0.492	-1.63	25	24.53	0.548	44
			25	12	Back side with back clip(0mm)	710	0.458	-0.51	24	23.27	0.542	/
			1	24	Back Side	709	0.432	-2.88	25	24.53	0.481	45
			25	12	Back Side	710	0.403	1.33	24	23.27	0.477	/
			1	24	Left Side	709	0.220	2.97	25	24.53	0.245	/
			25	12	Left Side	710	0.214	3.90	24	23.27	0.253	/
			1	24	Right Side	709	0.193	1.98	25	24.53	0.215	/
			25	12	Right Side	710	0.188	-1.71	24	23.27	0.222	/



			1	24	Top Side	709	0.052	1.02	25	24.53	0.058	/
			25	12	Top Side	710	0.054	-1.51	24	23.27	0.064	/
			1	24	Bottom Side	709	0.136	0.42	25	24.53	0.152	/
			25	12	Bottom Side	710	0.139	2.07	24	23.27	0.164	/
LTE Band 26	15M	QPSK	1	37	Back side with back clip(0mm)	841.5	0.495	0.56	25	24.59	0.544	47
			36	18	Back side with back clip(0mm)	841.5	0.455	3.30	24	23.39	0.524	/
			1	37	Back Side	841.5	0.379	-1.96	25	24.59	0.417	48
			36	18	Back Side	841.5	0.346	2.63	24	23.39	0.398	/
			1	37	Left Side	841.5	0.166	0.22	25	24.59	0.182	/
			36	18	Left Side	841.5	0.154	-0.70	24	23.39	0.177	/
			1	37	Right Side	841.5	0.125	3.79	25	24.59	0.137	/
			36	18	Right Side	841.5	0.136	-2.85	24	23.39	0.157	/
			1	37	Top Side	841.5	0.023	2.45	25	24.59	0.025	/
			36	18	Top Side	841.5	0.034	0.34	24	23.39	0.039	/
			1	37	Bottom Side	841.5	0.088	1.10	25	24.59	0.097	/
			36	18	Bottom Side	841.5	0.098	-2.80	24	23.39	0.113	/
LTE Band 41	20M	QPSK	1	49	Back side with back clip(0mm)	2506	0.339	-3.18	22	21.95	0.343	50
			50	24	Back side with back clip(0mm)	2506	0.310	3.21	21	20.62	0.338	/
			1	49	Back Side	2506	0.631	2.71	22	21.95	0.638	51
			50	24	Back Side	2506	0.569	-2.25	21	20.62	0.621	/
			1	49	Left Side	2506	0.322	-1.65	22	21.95	0.326	/
			50	24	Left Side	2506	0.325	3.52	21	20.62	0.355	/
			1	49	Right Side	2506	0.295	3.16	22	21.95	0.298	/
			50	24	Right Side	2506	0.285	1.94	21	20.62	0.311	/
			1	49	Top Side	2506	0.102	1.37	22	21.95	0.103	/
			50	24	Top Side	2506	0.103	-2.61	21	20.62	0.112	/
			1	49	Bottom Side	2506	0.166	-0.33	22	21.95	0.168	/
			50	24	Bottom Side	2506	0.141	3.34	21	20.62	0.154	/



LTE Band 66	20M	QPSK	1	49	Back side with back clip(0mm)	1720	0.252	-0.40	23.5	23.35	0.261	53
			50	24	Back side with back clip(0mm)	1720	0.210	-2.69	23	22.29	0.247	/
			1	49	Back Side	1720	0.390	-3.70	23.5	23.35	0.404	54
			50	24	Back Side	1720	0.341	0.35	23	22.29	0.402	/
			1	49	Left Side	1720	0.102	2.90	23.5	23.35	0.106	/
			50	24	Left Side	1720	0.103	-2.21	23	22.29	0.121	/
			1	49	Right Side	1720	0.098	1.37	23.5	23.35	0.101	/
			50	24	Right Side	1720	0.089	2.80	23	22.29	0.105	/
			1	49	Top Side	1720	0.012	1.31	23.5	23.35	0.012	/
			50	24	Top Side	1720	0.013	-1.05	23	22.29	0.015	/
			1	49	Bottom Side	1720	0.022	-0.73	23.5	23.35	0.023	/
			50	24	Bottom Side	1720	0.025	0.36	23	22.29	0.029	/

Note:

- The test separation of body SAR is 10mm, the test separation of Back side with back clip is 0mm.
- Per KDB 447498 D04, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - Scaled SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
- Per KDB 248227- When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg. (The highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power was **0.100** W/Kg for Body)
- When the user enables the personal Wireless router functions for the handsets, actual operations include simultaneous transmission of both the Wi-Fi transmitting frequency and thus cannot be evaluated for SAR under actual use conditions. The "Portable Hotspot" feature on the handset was NOT activated, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal.

**Simultaneous Multi-band Transmission Evaluation:**

Application Simultaneous Transmission information:

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

NOTE:

- Bluetooth and WLAN can't simultaneous transmission at the same time.
- For simultaneous transmission at head and body exposure position, 2 transmitters simultaneous transmission was the worst state.
- Based upon KDB 447498 D04, BT SAR is excluded as below table.
- If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.
- KDB 447498 Appendix E, 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:
 $SAR_{est} = 1.6 \cdot P_{ant} / P_{th}$ [W/kg].
 P_{ant} is maximum time-averaged power or effective radiated power (ERP), whichever is greater, and P_{th} is defined in Formula KDB 447498 (B.2).
- The reported SAR summation is calculated based on the same configuration and test position.

Estimated SAR		Antenna to user(cm)	Pant	Pth	Stand Alone SAR(1g) [W/kg]
BT	Body	≤0.5	1.26	2.72	0.741



Simultaneous Mode	Position	Mode	Max. 1-g SAR	1-g Sum SAR
			(W/kg)	(W/kg)
GSM + 2.4G WLAN	Body	GSM	0.693	0.796
		2.4G WLAN	0.103	
GSM + Bluetooth	Body	GSM	0.693	1.434
		Bluetooth	0.741	
GSM + 5G WLAN	Body	GSM	0.693	0.796
		5G WLAN	0.103	
WCDMA + 2.4G WLAN	Body	WCDMA	0.602	0.705
		2.4G WLAN	0.103	
WCDMA + Bluetooth	Body	WCDMA	0.602	1.343
		Bluetooth	0.741	
WCDMA + 5G WLAN	Body	WCDMA	0.602	0.705
		5G WLAN	0.103	
LTE + 2.4G WLAN	Body	LTE	0.744	0.847
		2.4G WLAN	0.103	
LTE + Bluetooth	Body	LTE	0.744	1.485
		Bluetooth	0.741	
LTE + 5G WLAN	Body	LTE	0.744	0.847
		5G WLAN	0.103	

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.



12. Equipment List

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
750MHz Dipole	MVG	SID750	SN 30/14 DIP0G750-331	2020.07.14	2023.07.13
835MHz Dipole	MVG	SID835	SN 30/14 DIP0G835-332	2020.07.14	2023.07.13
1800MHz Dipole	MVG	SID1800	SN 30/14 DIP1G800-329	2020.07.14	2023.07.13
1900MHz Dipole	MVG	SID1900	SN 30/14 DIP1G900-333	2020.07.14	2023.07.13
2450MHzDipole	MVG	SID2450	SN 30/14 DIP2G450-335	2020.07.14	2023.07.13
2600MHz Dipole	MVG	SID2600	SN 30/14 DIP2G600-336	2020.07.14	2023.07.13
Waveguide	MVG	SWG5500	SN 13/14 WGA32	2020.07.14	2023.07.13
E-Field Probe	MVG	SSE2	SN 07/21 EPGO352	2023.02.24	2024.02.23
Dielectric Probe Kit	MVG	SCLMP	SN 32/14 OCPG67	2022.11.15	2023.11.14
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	99899	DC-18GHz	N/A	N/A
Directional coupler	Narda	4226-20	3305	N/A	N/A
Network Analyzer	Agilent	8753ES	US38432810	2022.09.28	2023.09.27
Multi Meter	Keithley	Multi Meter 2000	4050073	2022.09.29	2023.09.28
Signal Generator	Agilent	N5182A	MY50140530	2022.09.28	2023.09.27
Wireless Communication Test Set	Agilent	8960-E5515C	MY48360751	2022.09.28	2023.09.27
Wireless Communication Test Set	R&S	CMW500	156324	2022.09.29	2023.09.28
Power Amplifier	DESAY	ZHL-42W	9638	2022.10.08	2023.10.07
Power Meter	R&S	NRP	100510	2022.09.28	2023.09.27
Power Sensor	R&S	NRP-Z11	101919	2022.09.28	2023.09.27
Power Sensor	Keysight	U2021XA	MY56280002	2022.09.29	2023.09.28
Temperature hygrometer	SuWei	SW-108	N/A	2022.09.30	2023.09.29
Thermograph	Elitech	RC-4	S/N EF7176501537	2022.09.30	2023.09.29

Note:

Per KDB 865664 D01, Dipole SAR Validation Verification, STS LAB has adopted 3 years calibration intervals. On annual basis, every measurement dipole has been evaluated and is in compliance with the following criteria:

1. There is no physical damage on the dipole
2. System validation with specific dipole is within 10% of calibrated value Return-loss in within 20% of calibrated measurement



Appendix A. System Validation Plots

System Performance Check Data (750MHz)

Type: Phone measurement (Complete)

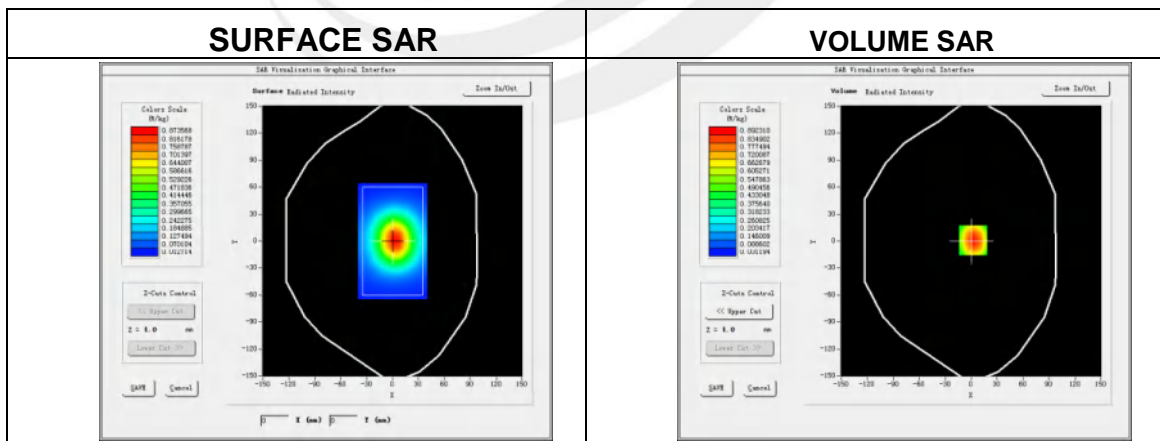
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2023-03-10

Experimental conditions

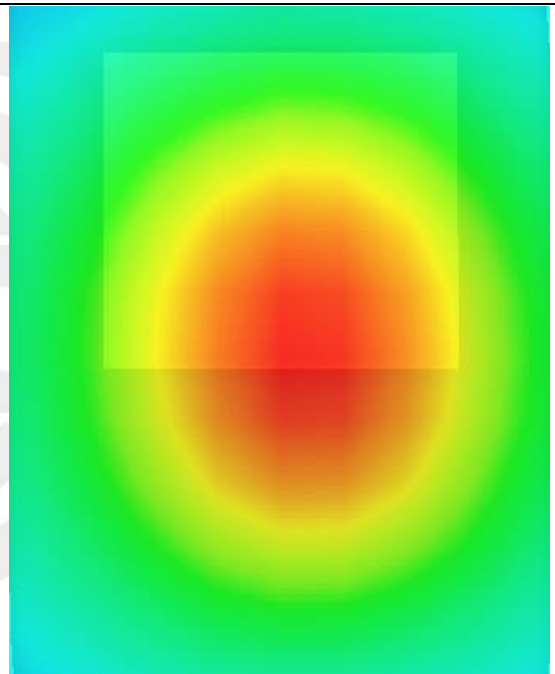
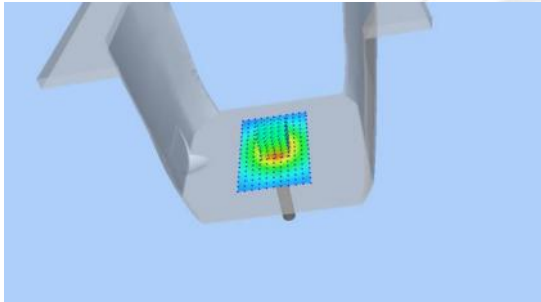
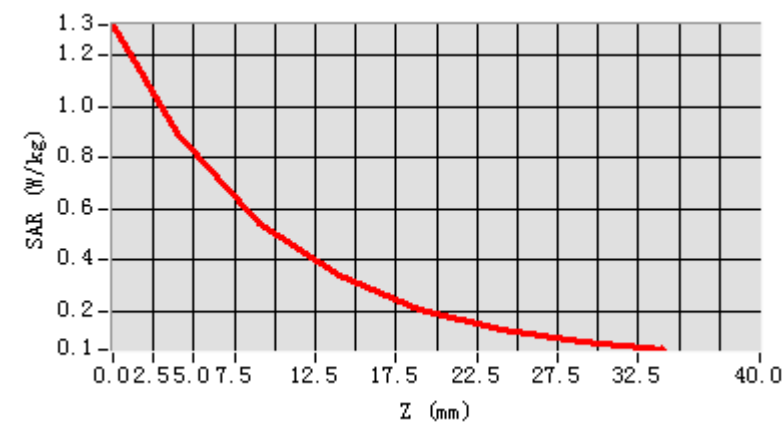
Phantom	Validation plane
Device Position	-
Band	750MHz
Channels	-
Signal	CW
Frequency (MHz)	750MHz
Relative permittivity	42.30
Conductivity (S/m)	0.86
Probe	SN 07/21 EPGO352
ConvF	1.58
Crest factor	1:1



Maximum location: X=2.00, Y=1.00

SAR 10g (W/Kg)	0.533811
SAR 1g (W/Kg)	0.871207

Z Axis Scan



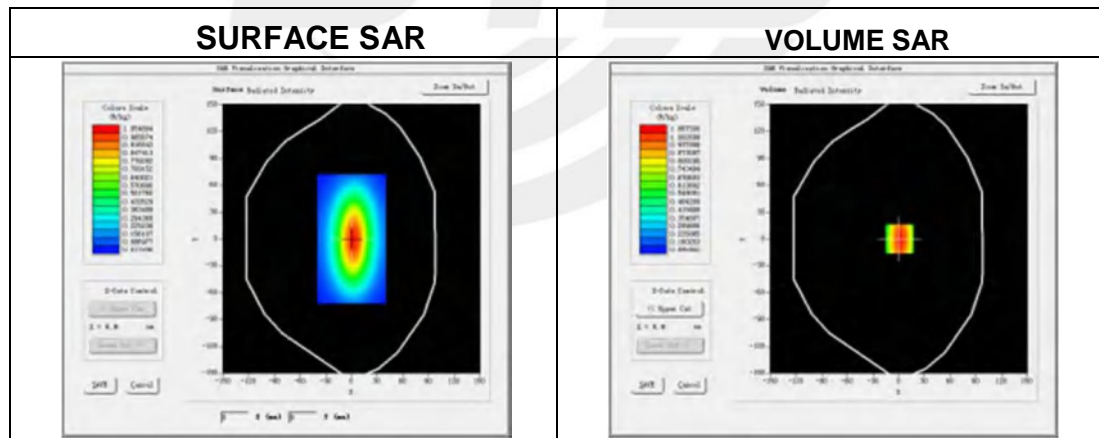


System Performance Check Data (835MHz)

Type: Phone measurement (Complete)
 Area scan resolution: dx=8mm, dy=8mm
 Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
 Date of measurement: 2023-03-13

Experimental conditions

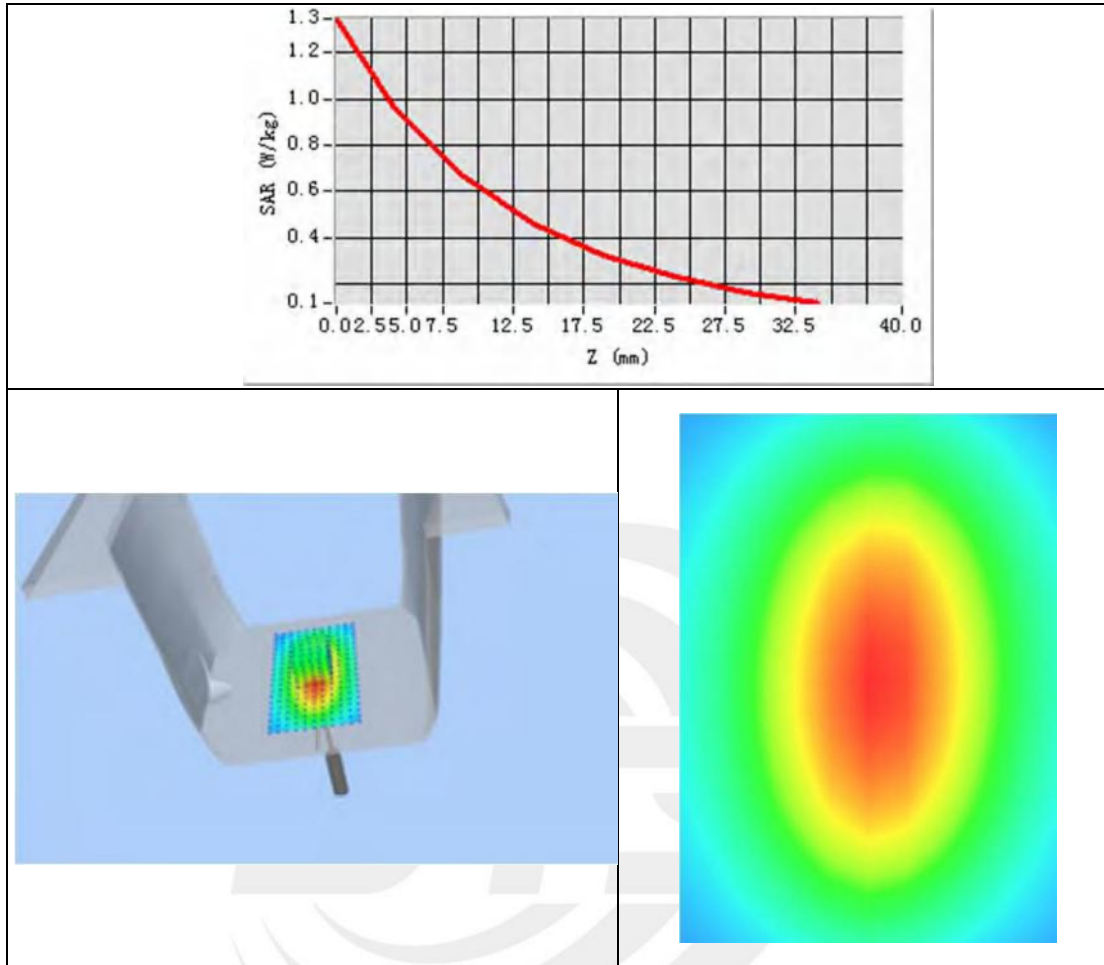
Phantom	Validation plane
Device Position	-
Band	835MHz
Channels	-
Signal	CW
Frequency (MHz)	835MHz
Relative permittivity	41.11
Conductivity (S/m)	0.88
Probe	SN 07/21 EPGO352
ConvF:	1.57
Crest factor:	1:1



Maximum location: X=1.00, Y=0.00

SAR 10g (W/Kg)	0.638846
SAR 1g (W/Kg)	0.986767

Z Axis Scan



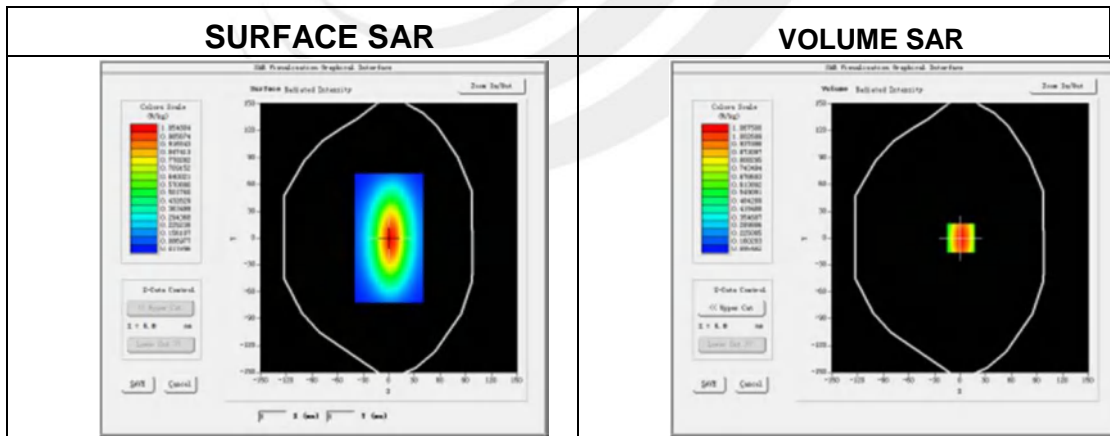


System Performance Check Data (1800MHz)

Type: Phone measurement (Complete)
 Area scan resolution: dx=8mm, dy=8mm
 Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
 Date of measurement: 2023-03-14

Experimental conditions.

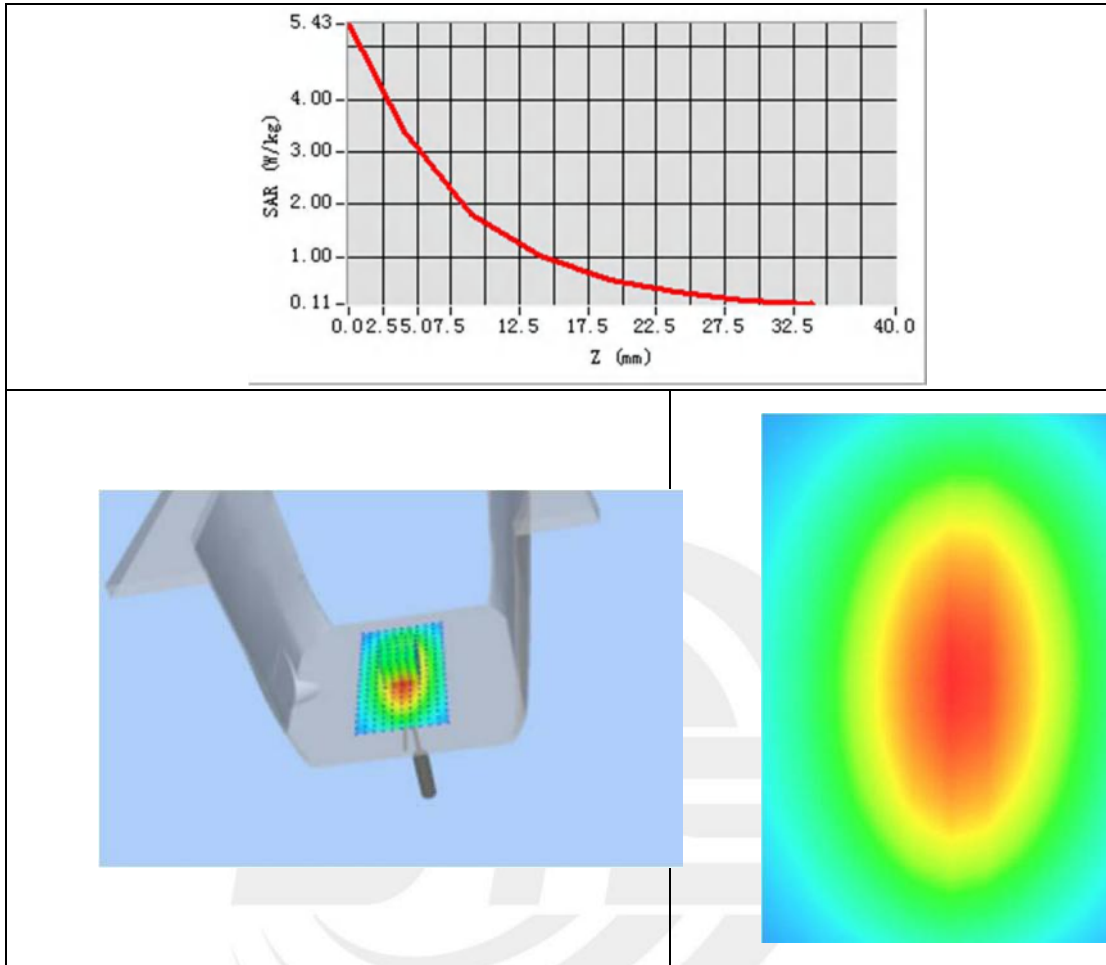
Phantom	Validation plane
Device Position	-
Band	1800MHz
Channels	-
Signal	CW
Frequency (MHz)	1800MHz
Relative permittivity	40.87
Conductivity (S/m)	1.38
Probe	SN 07/21 EPGO352
ConvF	1.60
Crest factor:	1:1



Maximum location: X=7.00, Y=-1.00

SAR 10g (W/Kg)	1.992441
SAR 1g (W/Kg)	3.96049

Z Axis Scan





System Performance Check Data (1900MHz)

Type: Phone measurement (Complete)

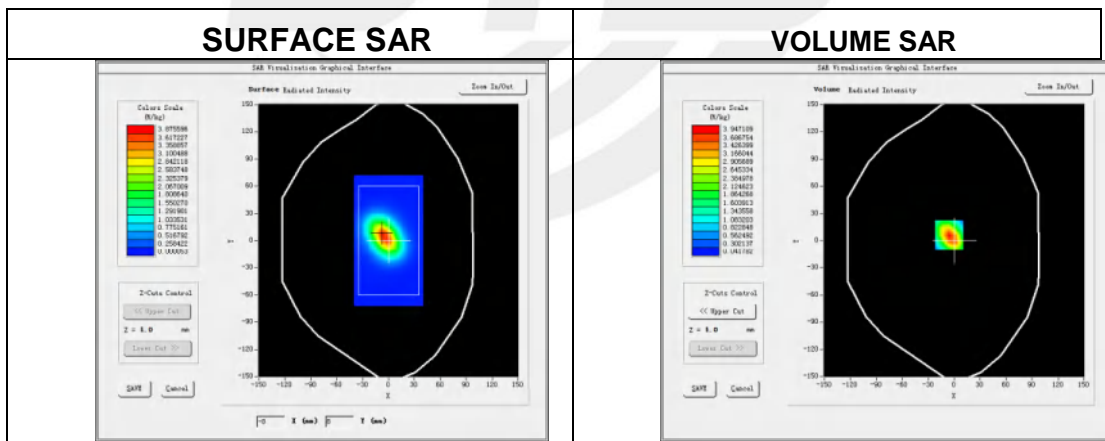
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2023-03-14

Experimental conditions.

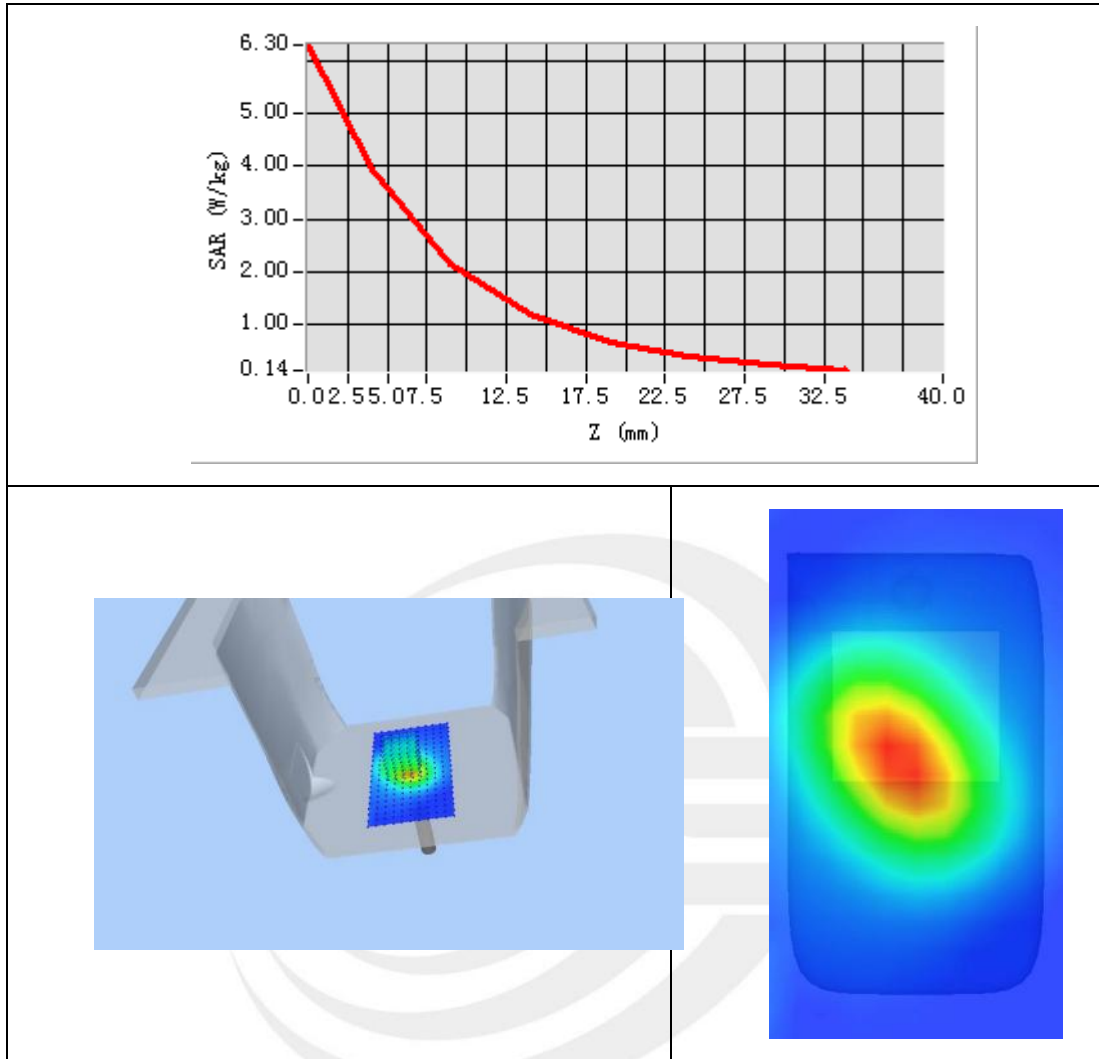
Device Position	Validation plane
Band	1900MHz
Channels	-
Signal	CW
Frequency (MHz)	1900
Relative permittivity	40.39
Conductivity (S/m)	1.39
Probe	SN 07/21 EPGO352
ConvF	1.78
Crest factor:	1:1



Maximum location: X=2.00, Y=2.00

SAR 10g (W/Kg)	1.990205
SAR 1g (W/Kg)	3.922334

Z Axis Scan





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: 2023-03-17

Experimental conditions.

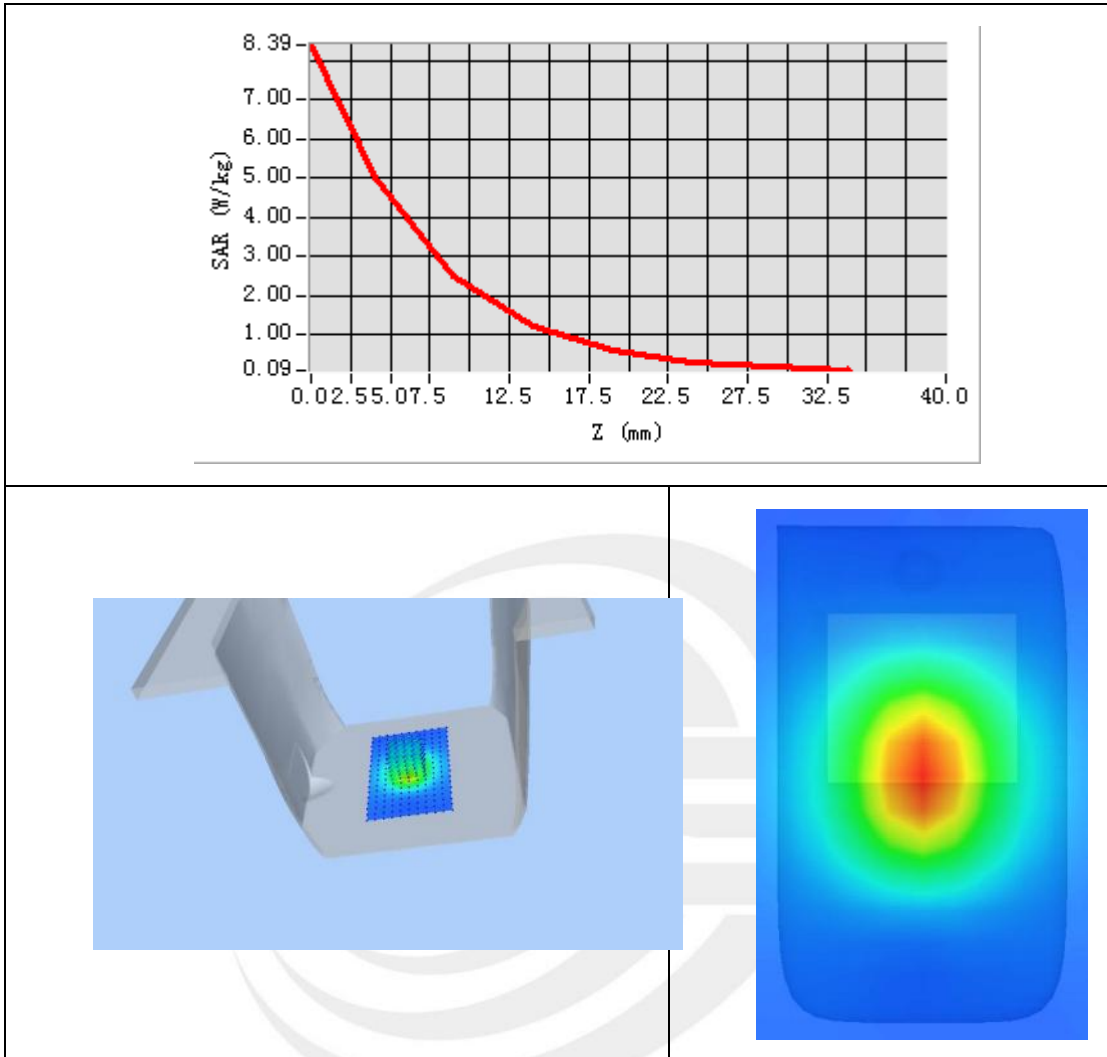
Device Position	Validation plane
Band	2450 MHz
Channels	-
Signal	CW
Frequency (MHz)	2450
Relative permittivity	39.91
Conductivity (S/m)	1.83
Probe	SN 07/21 EPGO352
ConvF	1.75
Crest factor:	1:1



Maximum location: X=3.00, Y=1.00

SAR 10g (W/Kg)	2.423898
SAR 1g (W/Kg)	5.582434

Z Axis Scan



System Performance Check Data (2600MHz)

Type: Phone measurement (Complete)

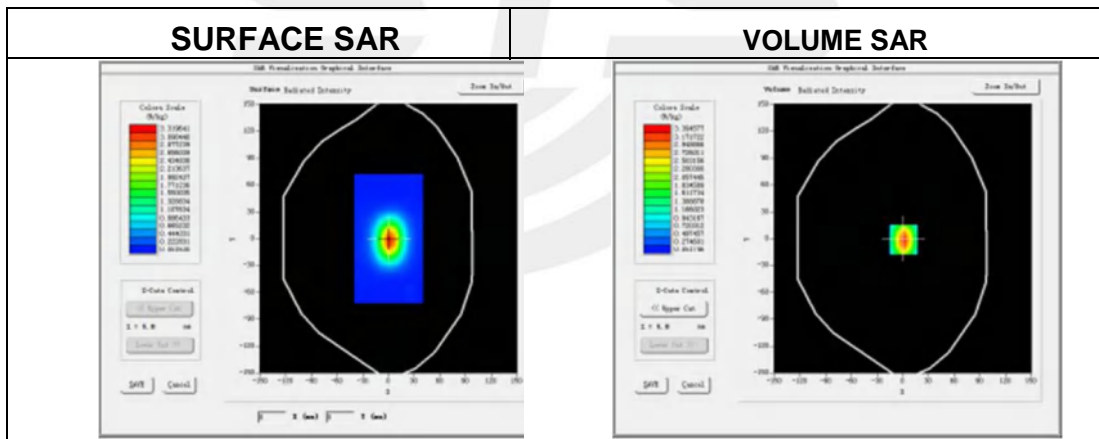
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2023-03-20

Experimental conditions.

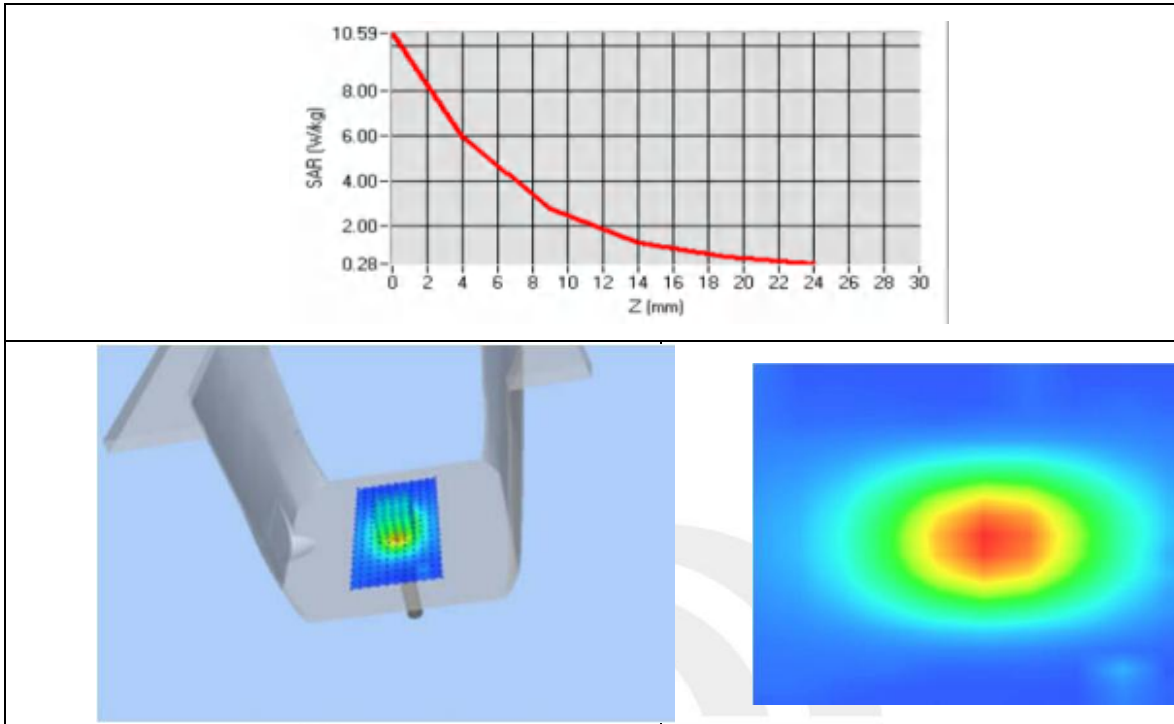
Device Position	Validation plane
Band	2600 MHz
Channels	-
Signal	CW
Frequency (MHz)	2600
Relative permittivity	39.50
Conductivity (S/m)	1.98
Probe	SN 07/21 EPGO352
ConvF	1.63
Crest factor:	1:1



Maximum location: X=3.00, Y=1.00

SAR 10g (W/Kg)	2.391828
SAR 1g (W/Kg)	5.861821

Z Axis Scan





System Performance Check Data(5200MHz)

Type: Dipole measurement (Complete)

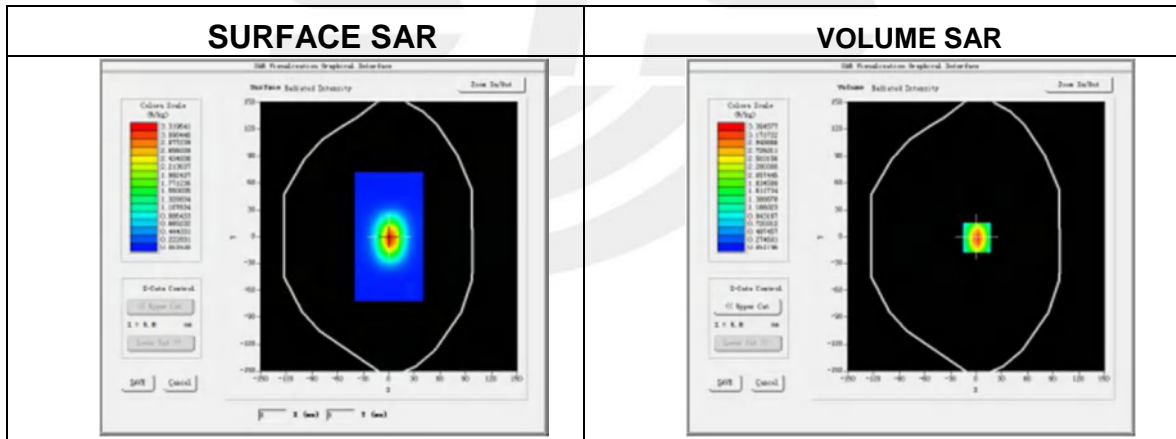
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2023-03-21

Experimental conditions.

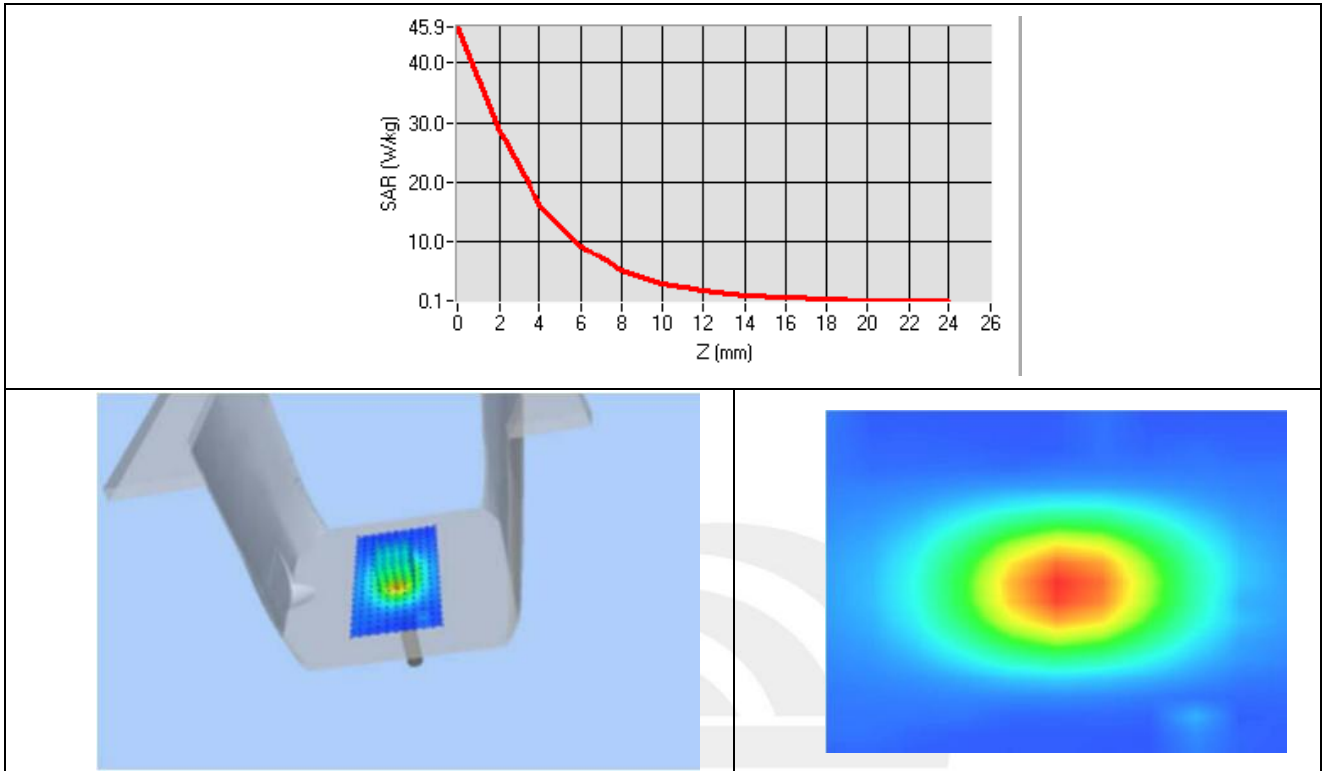
Device Position	Validation plane
Band	5200 MHz
Channels	-
Signal	CW
Frequency (MHz)	5200
Relative permittivity	36.46
Conductivity (S/m)	4.65
Probe	SN 07/21 EPGO352
ConvF	1.47
Crest factor:	1:1



Maximum location: X=7.00, Y=2.00

SAR 10g (W/Kg)	5.502846
SAR 1g (W/Kg)	15.926565

Z Axis Scan





System Performance Check Data(5800MHz)

Type: Dipole measurement (Complete)

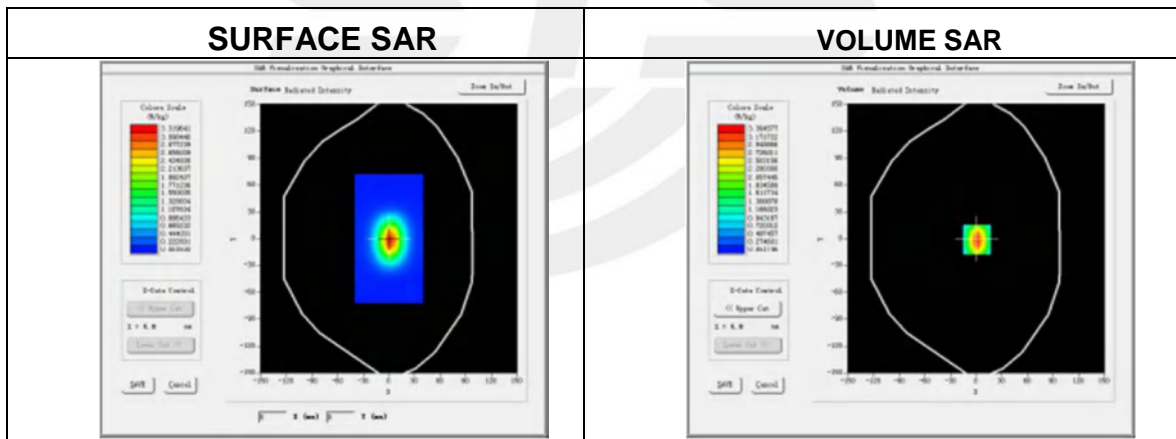
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2023-03-21

Experimental conditions.

Device Position	Validation plane
Band	5800 MHz
Channels	-
Signal	CW
Frequency (MHz)	5800
Relative permittivity	36.43
Conductivity (S/m)	5.29
Probe	SN 07/21 EPGO352
ConvF	1.64
Crest factor:	1:1

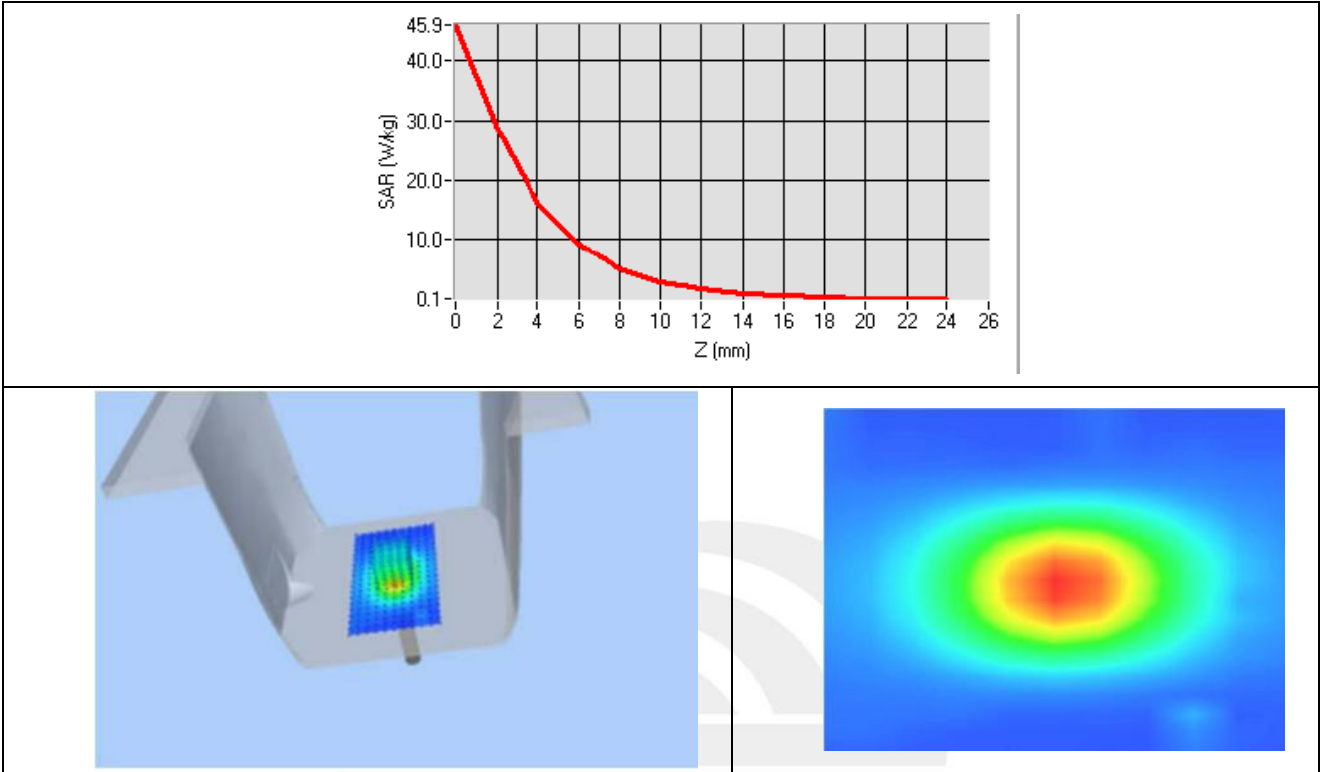


Maximum location: X=7.00, Y=2.00

SAR 10g (W/Kg)	6.172936
SAR 1g (W/Kg)	18.515081



Z Axis Scan



Appendix B. SAR Test Plots

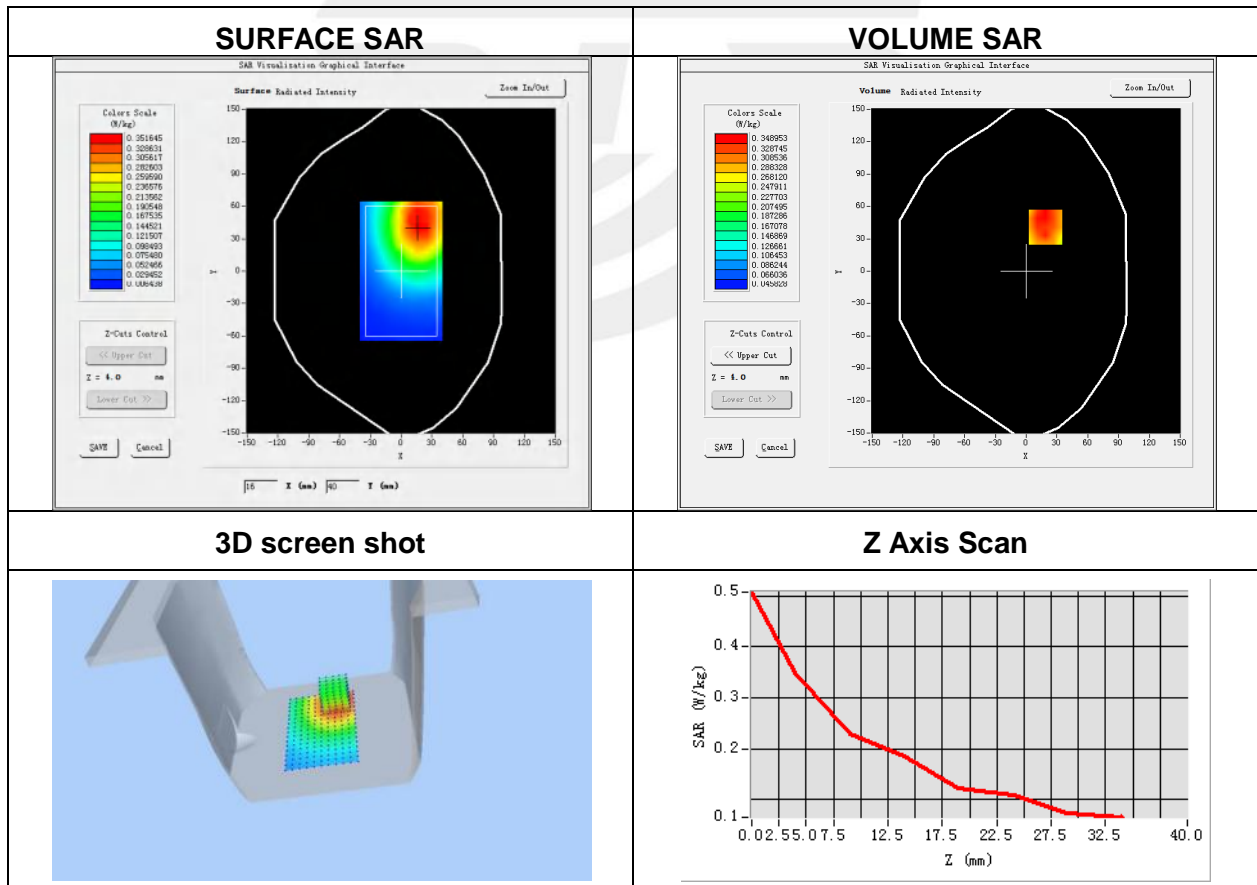
Plot 1: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-13
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Front of face
Band	GPRS 850
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	824.2
Relative permittivity (real part)	41.76
Conductivity (S/m)	0.86

Maximum location: X=19.00, Y=41.00

SAR Peak: 0.49 W/kg

SAR 10g (W/Kg)	0.242410
SAR 1g (W/Kg)	0.344107



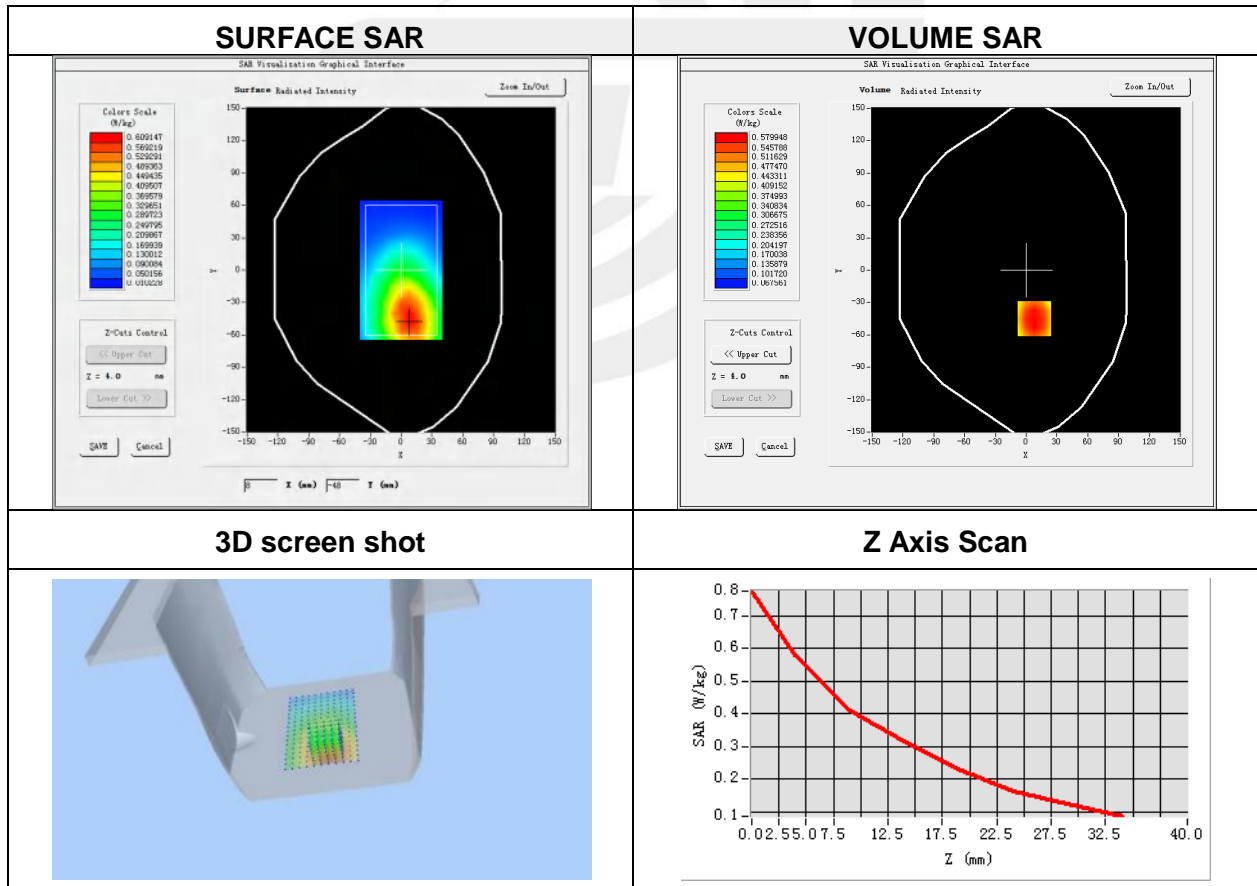
Plot 2: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-13
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Back side with back clip
Band	GPRS 850
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	824.2
Relative permittivity (real part)	41.76
Conductivity (S/m)	0.86

Maximum location: X=8.00, Y=-45.00

SAR Peak: 0.78 W/kg

SAR 10g (W/Kg)	0.395510
SAR 1g (W/Kg)	0.565971



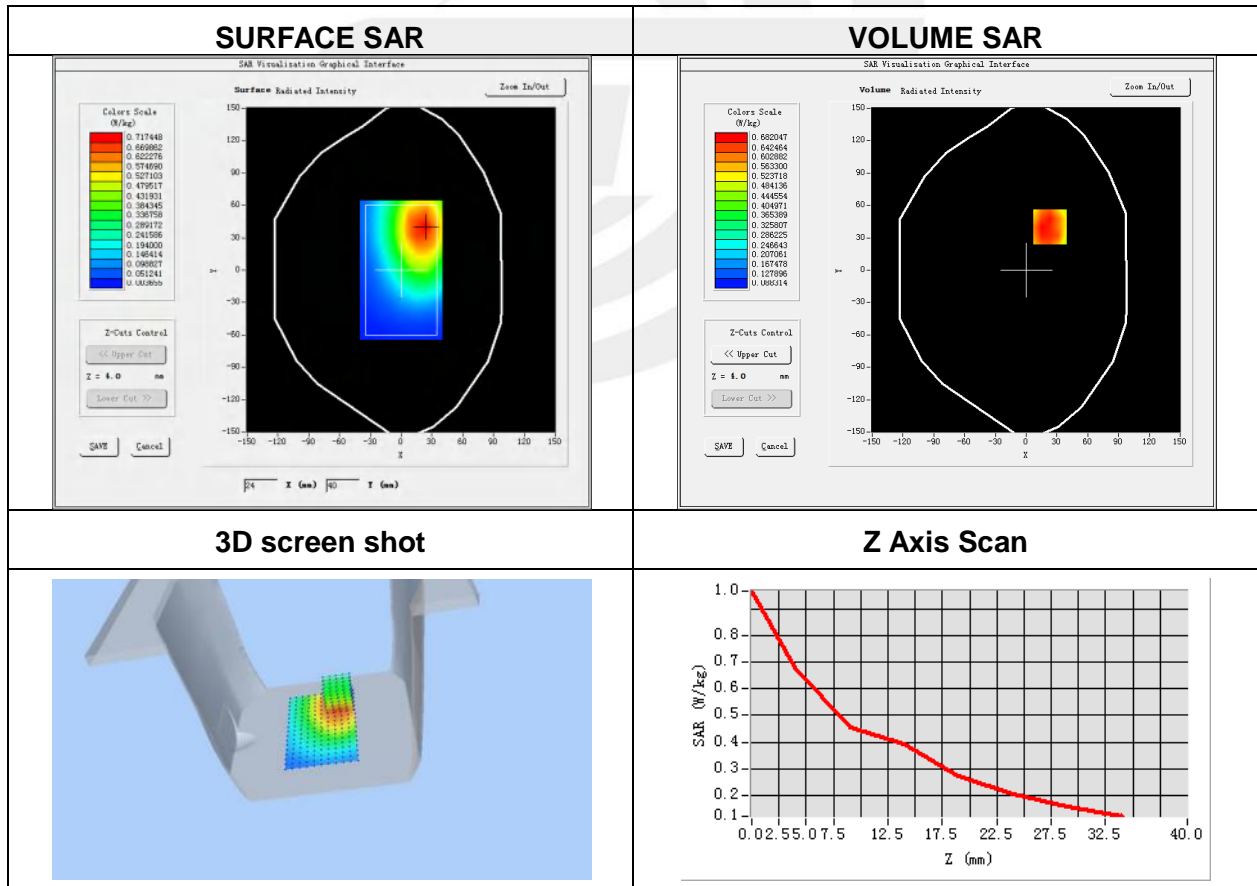
Plot 3: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-13
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Back Side
Band	GPRS 850
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	824.2
Relative permittivity (real part)	41.76
Conductivity (S/m)	0.86

Maximum location: X=23.00, Y=40.00

SAR Peak: 0.92 W/kg

SAR 10g (W/Kg)	0.471789
SAR 1g (W/Kg)	0.661719



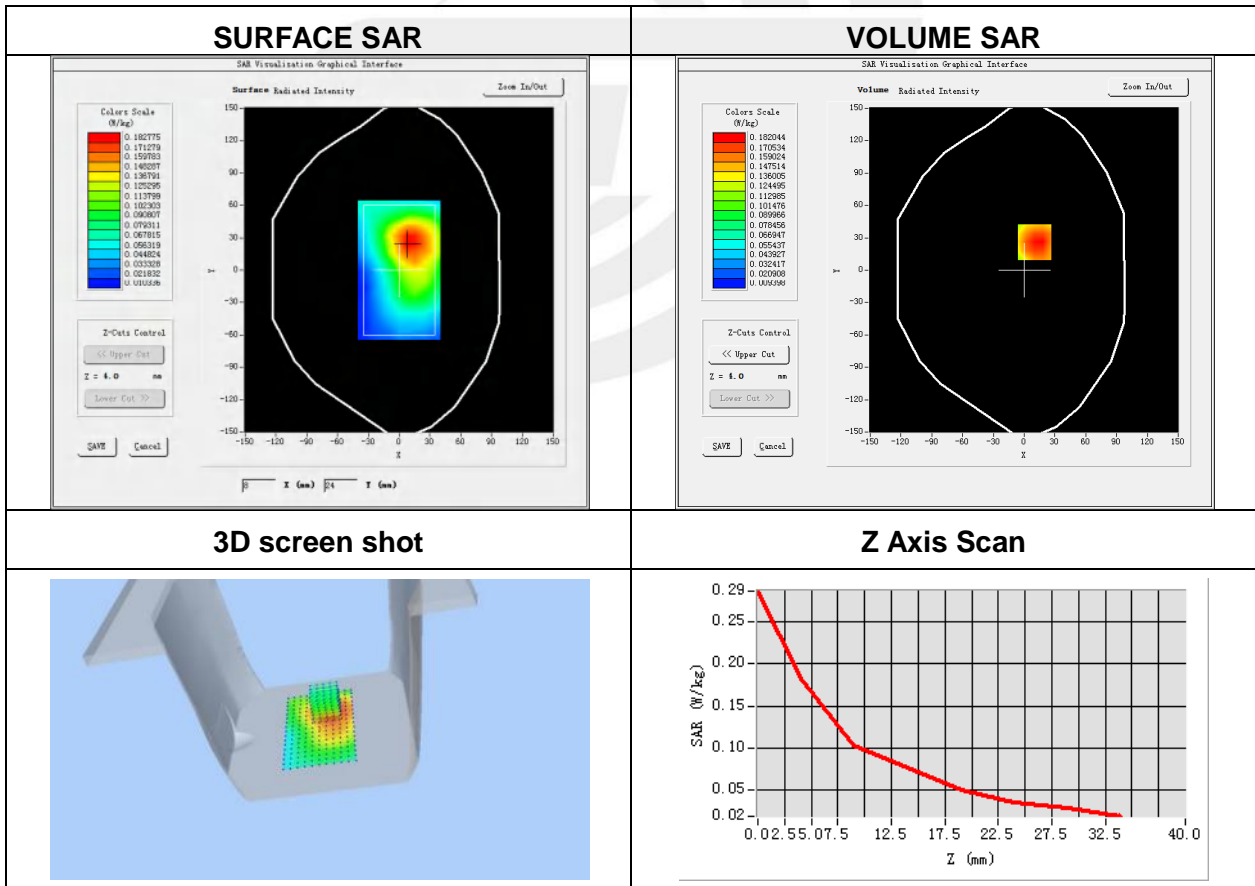
Plot 4: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-15
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Front of face
Band	GPRS 1900
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	1909.8
Relative permittivity (real part)	40.03
Conductivity (S/m)	1.42

Maximum location: X=10.00, Y=26.00

SAR Peak: 0.25 W/kg

SAR 10g (W/Kg)	0.109934
SAR 1g (W/Kg)	0.172380



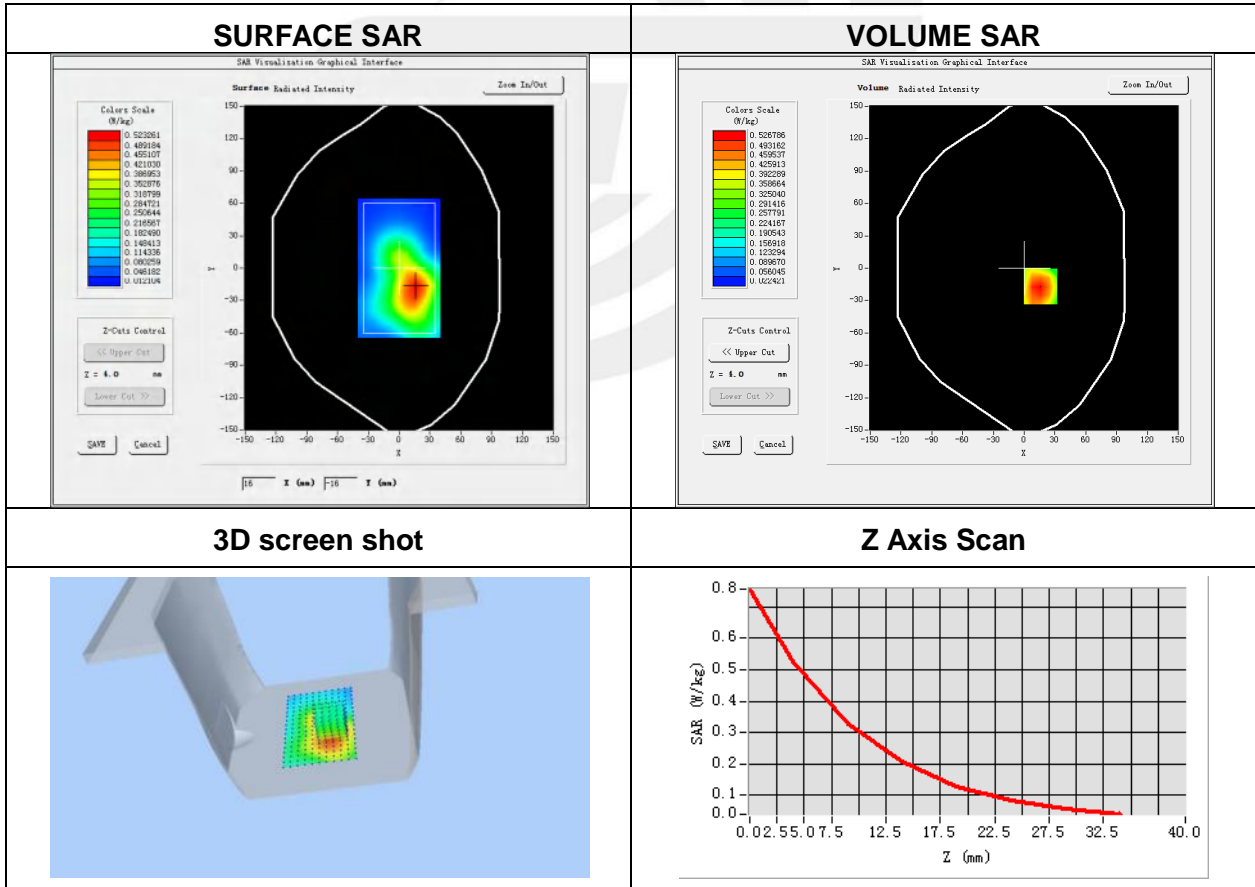
Plot 5: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-15
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Back side with back clip
Band	GPRS 1900
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	1909.8
Relative permittivity (real part)	40.03
Conductivity (S/m)	1.42

Maximum location: X=16.00, Y=-17.00

SAR Peak: 0.79 W/kg

SAR 10g (W/Kg)	0.304130
SAR 1g (W/Kg)	0.508387



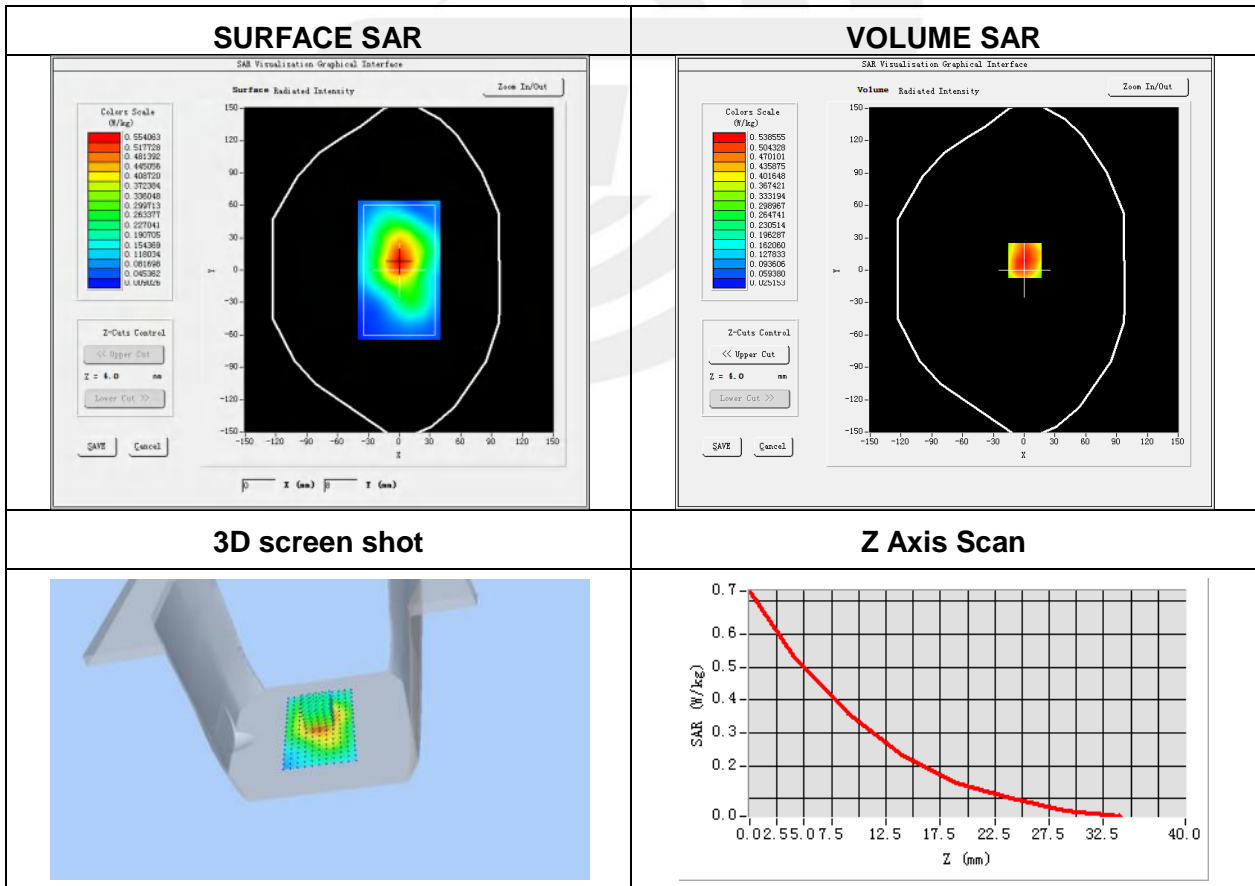
Plot 6: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-15
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Back Side
Band	GPRS 1900
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	1909.8
Relative permittivity (real part)	40.03
Conductivity (S/m)	1.42

Maximum location: X=1.00, Y=9.00

SAR Peak: 0.77 W/kg

SAR 10g (W/Kg)	0.320131
SAR 1g (W/Kg)	0.515026



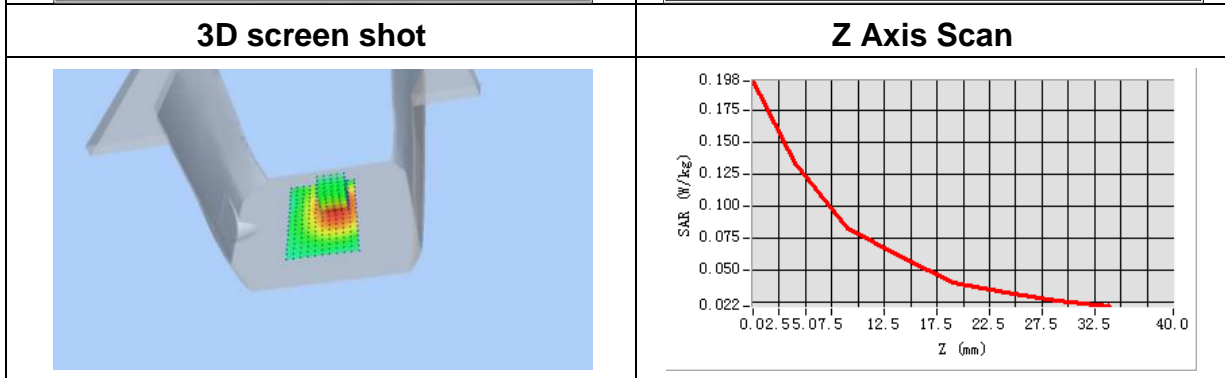
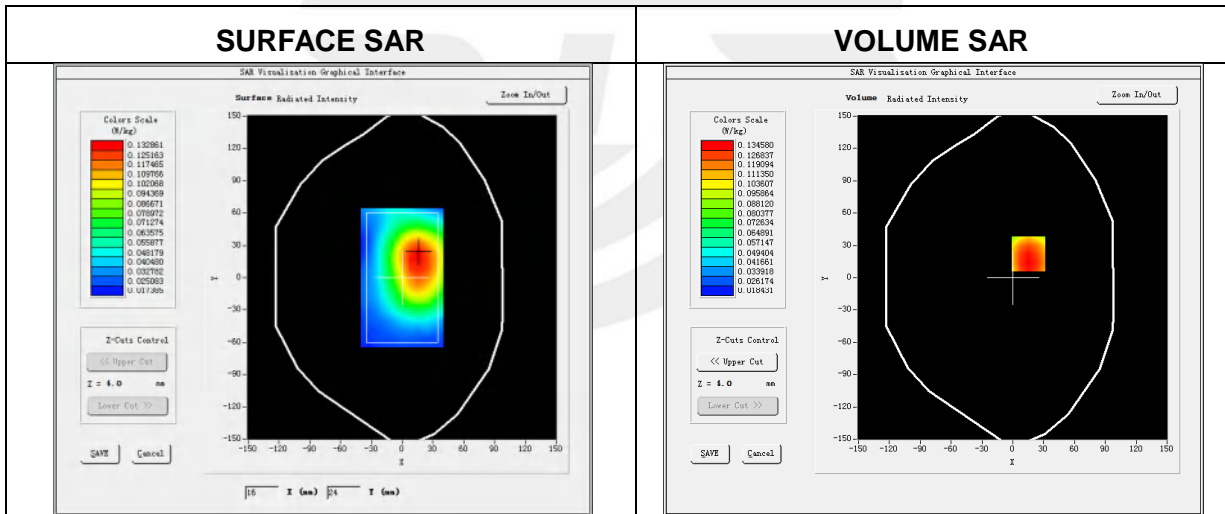
Plot 7: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-14
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Front of face
Band	WCDMA II
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1852.4
Relative permittivity (real part)	41.19
Conductivity (S/m)	1.41

Maximum location: X=15.00, Y=22.00

SAR Peak: 0.19 W/kg

SAR 10g (W/Kg)	0.086574
SAR 1g (W/Kg)	0.132237



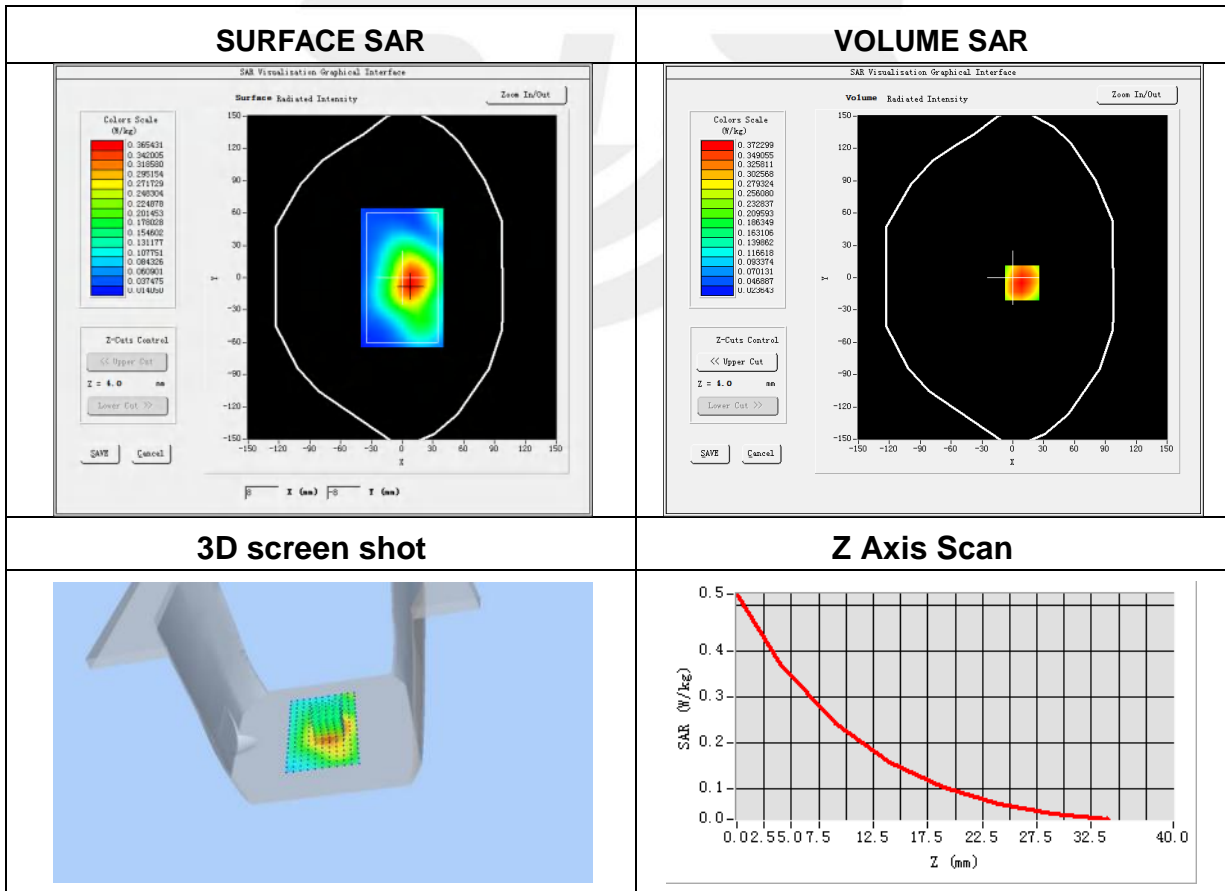
Plot 8: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-14
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Back side with back clip
Band	WCDMA II
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1852.4
Relative permittivity (real part)	41.19
Conductivity (S/m)	1.41

Maximum location: X=9.00, Y=-5.00

SAR Peak: 0.53 W/kg

SAR 10g (W/Kg)	0.225650
SAR 1g (W/Kg)	0.362742



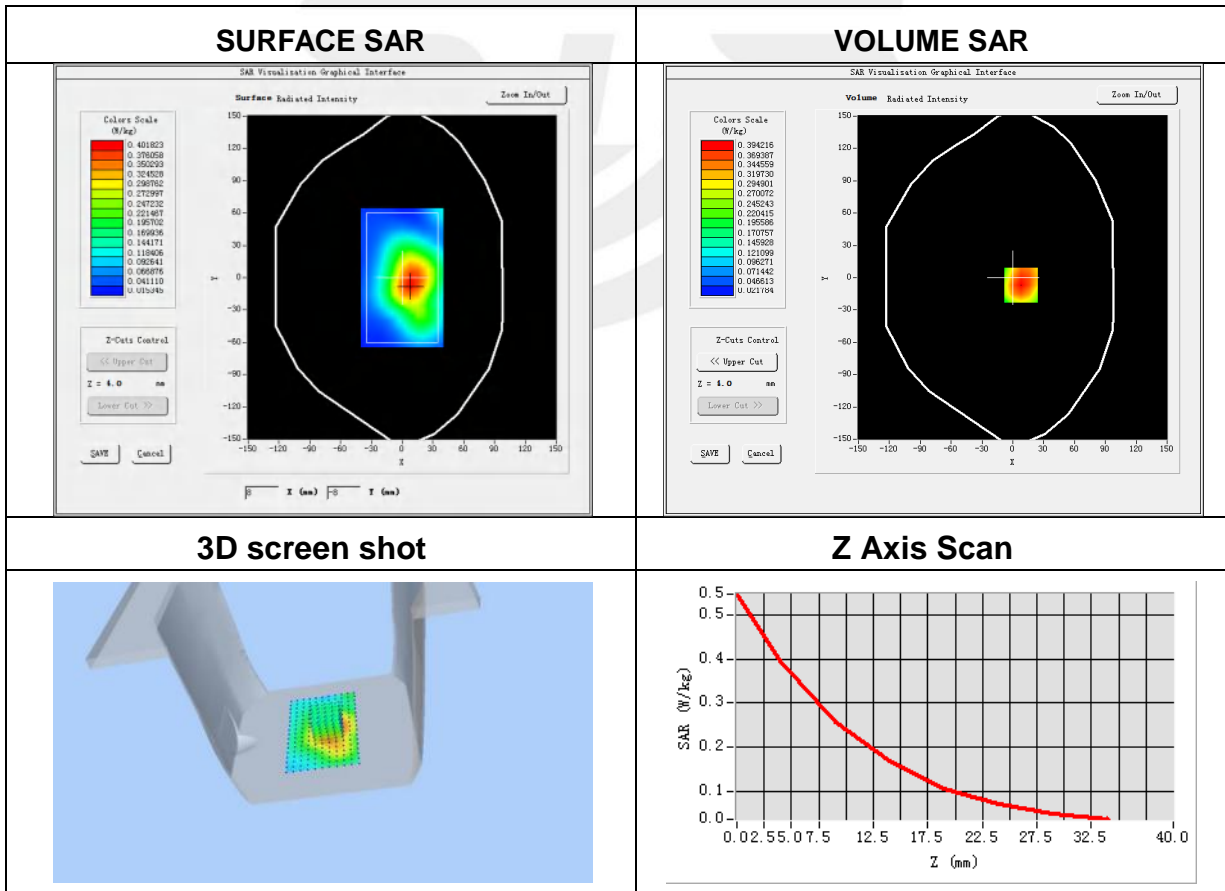
Plot 9: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-14
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Back
Band	WCDMA II
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1852.4
Relative permittivity (real part)	41.19
Conductivity (S/m)	1.41

Maximum location: X=8.00, Y=-7.00

SAR Peak: 0.55 W/kg

SAR 10g (W/Kg)	0.238779
SAR 1g (W/Kg)	0.381635

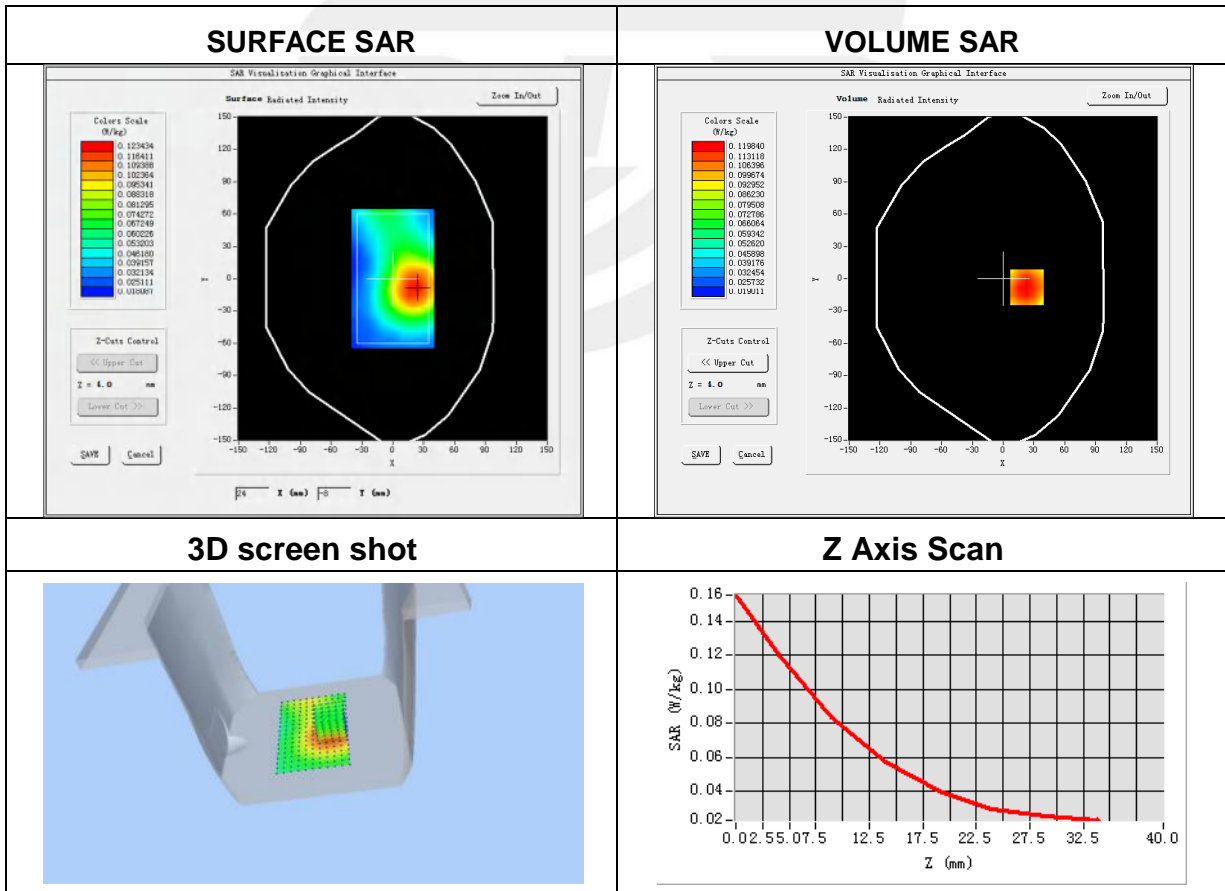


Plot 10: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-14
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Front of face
Band	WCDMA 4
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1712.6
Relative permittivity (real part)	40.60
Conductivity (S/m)	1.36

**Maximum location: X=23.00, Y=-8.00
SAR Peak: 0.16 W/kg**

SAR 10g (W/Kg)	0.077550
SAR 1g (W/Kg)	0.116502



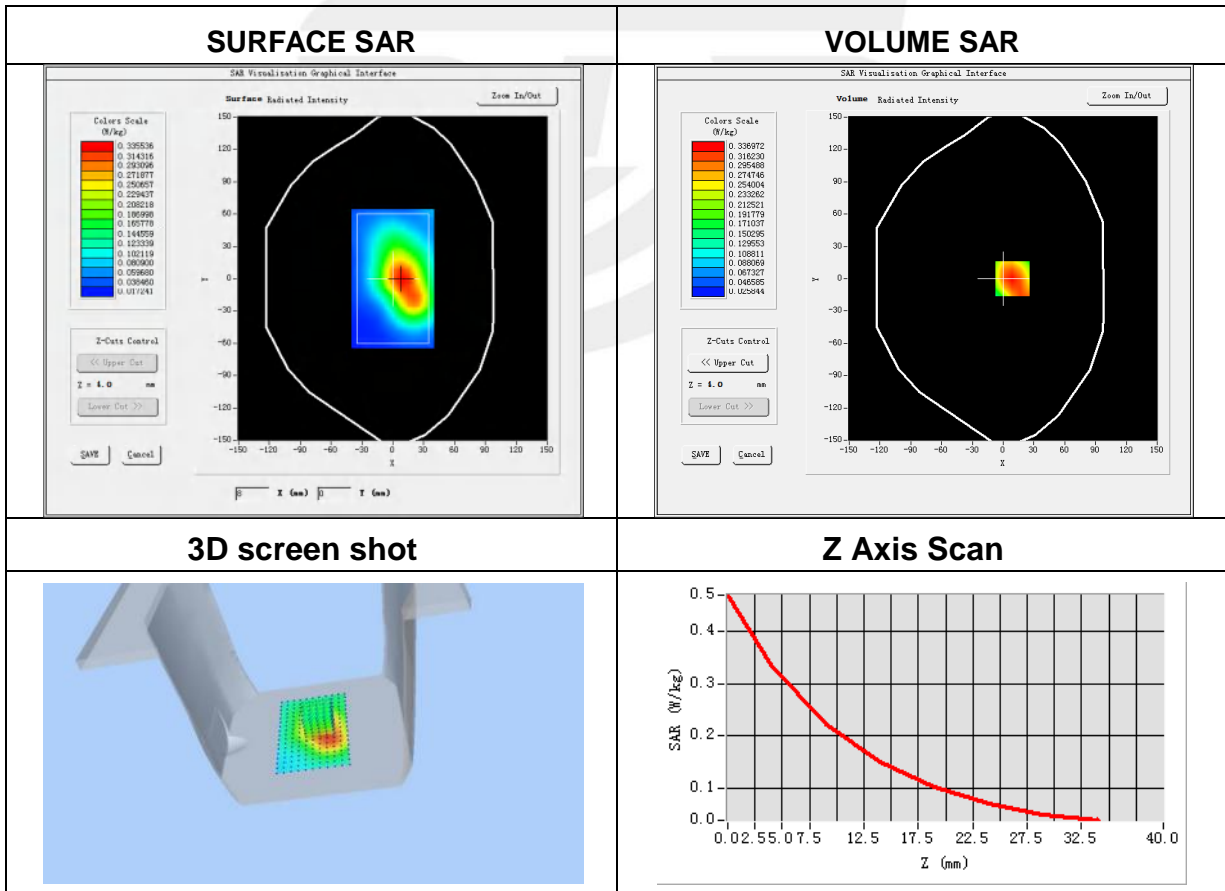
Plot 11: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-14
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Back side with back clip
Band	WCDMA 4
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1712.6
Relative permittivity (real part)	40.60
Conductivity (S/m)	1.36

Maximum location: X=9.00, Y=0.00

SAR Peak: 0.48 W/kg

SAR 10g (W/Kg)	0.204342
SAR 1g (W/Kg)	0.325481



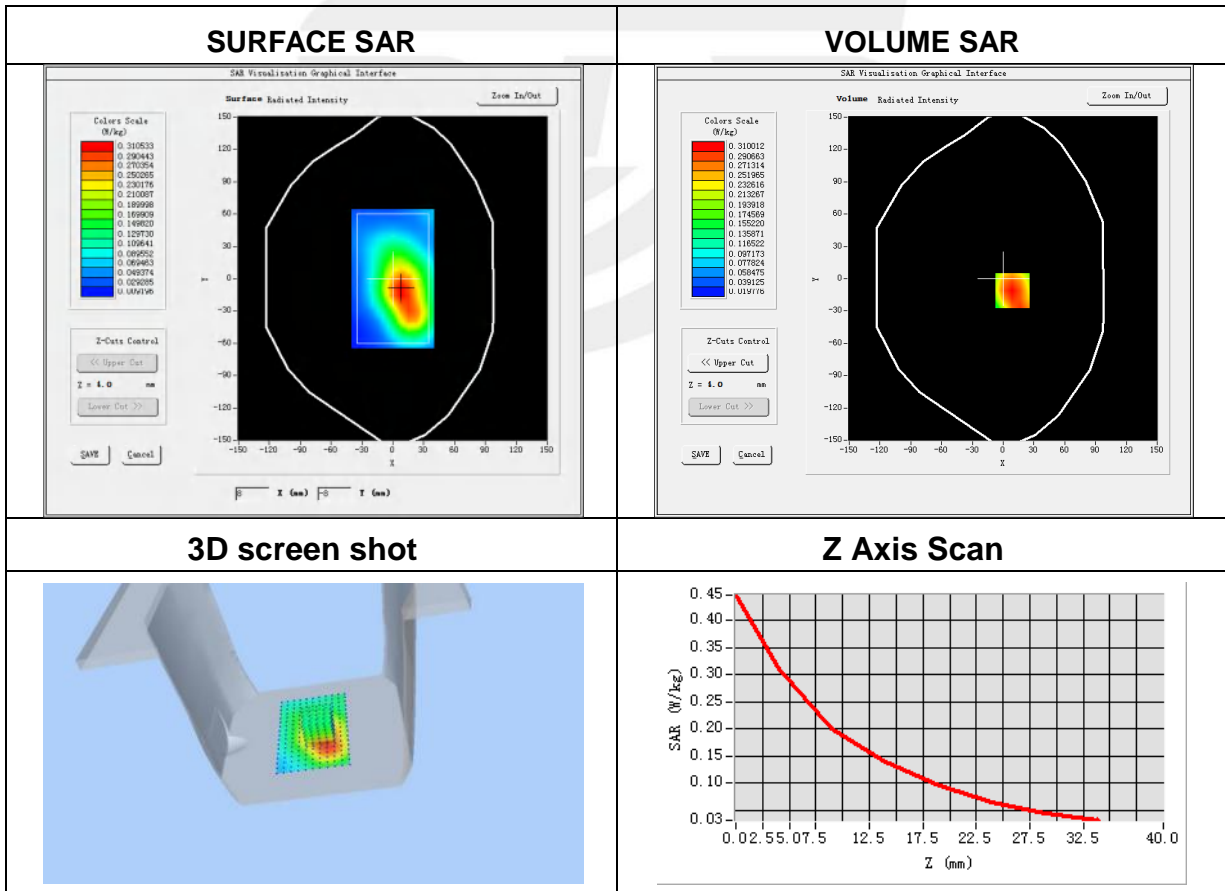
Plot 12: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-14
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Back Side
Band	WCDMA 4
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1712.6
Relative permittivity (real part)	40.60
Conductivity (S/m)	1.36

Maximum location: X=9.00, Y=-11.00

SAR Peak: 0.44 W/kg

SAR 10g (W/Kg)	0.189465
SAR 1g (W/Kg)	0.301276

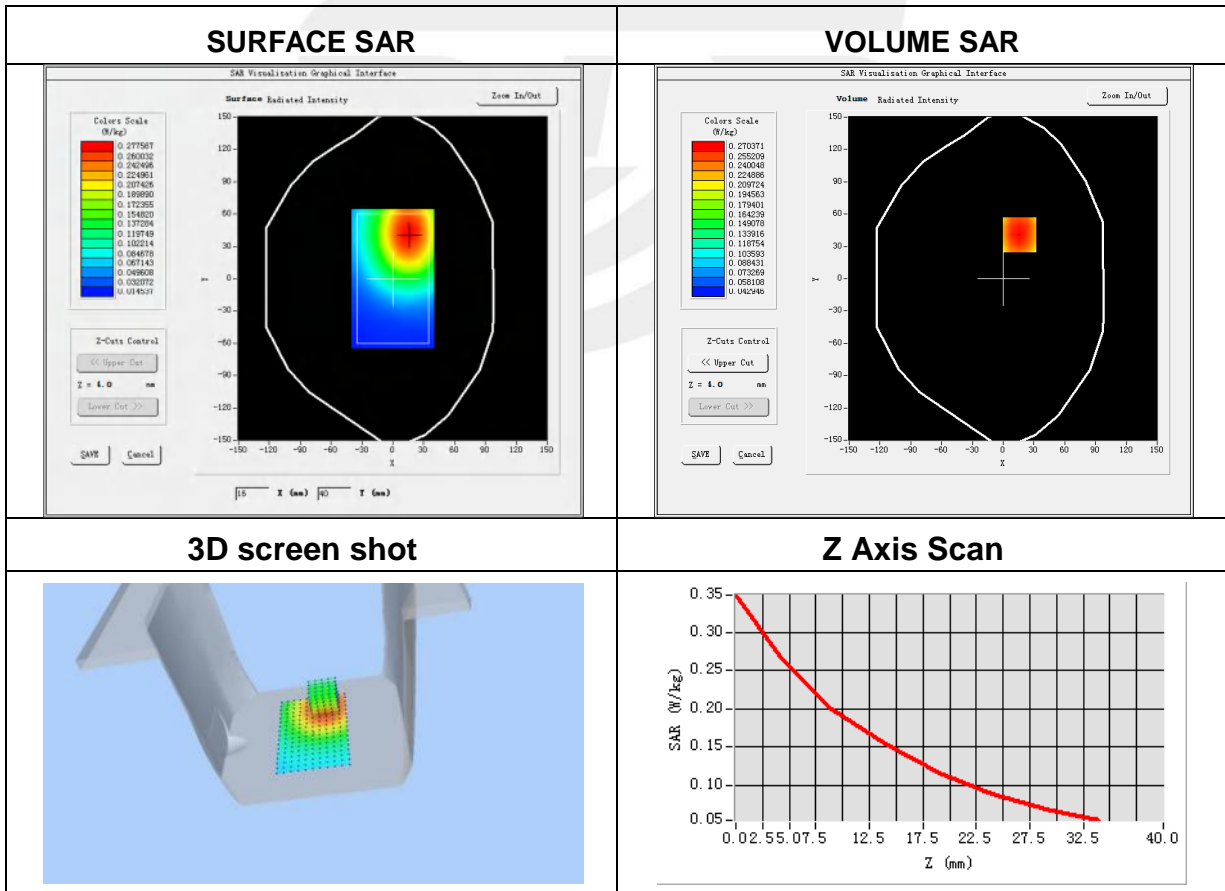


Plot 13: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-13
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Front of face
Band	WCDMA 5
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	826.4
Relative permittivity (real part)	40.88
Conductivity (S/m)	0.93

Maximum location: X=16.00, Y=41.00
SAR Peak: 0.35 W/kg

SAR 10g (W/Kg)	0.191009
SAR 1g (W/Kg)	0.264987

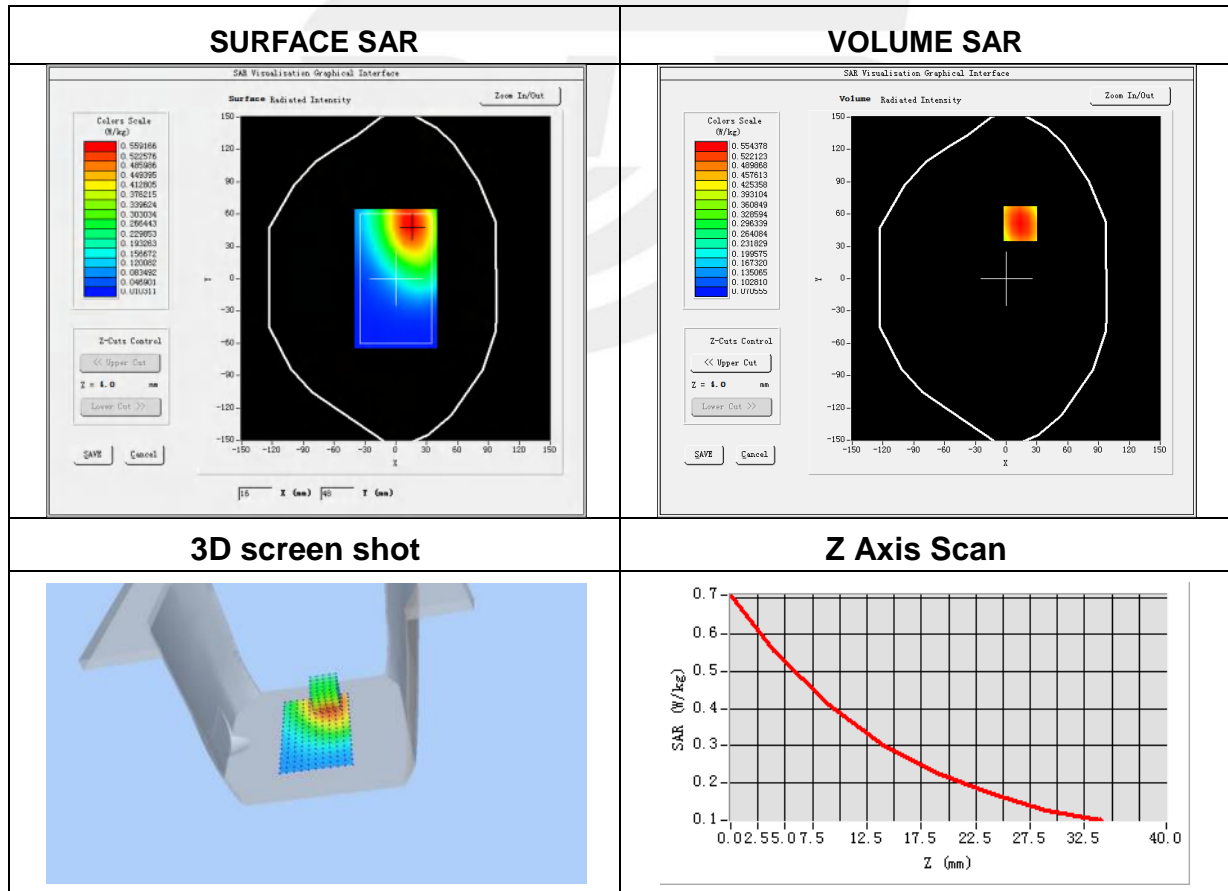


Plot 14: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-13
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Back side with back clip
Band	WCDMA 5
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	826.4
Relative permittivity (real part)	40.88
Conductivity (S/m)	0.93

Maximum location: X=14.00, Y=51.00
SAR Peak: 0.72 W/kg

SAR 10g (W/Kg)	0.381416
SAR 1g (W/Kg)	0.538661



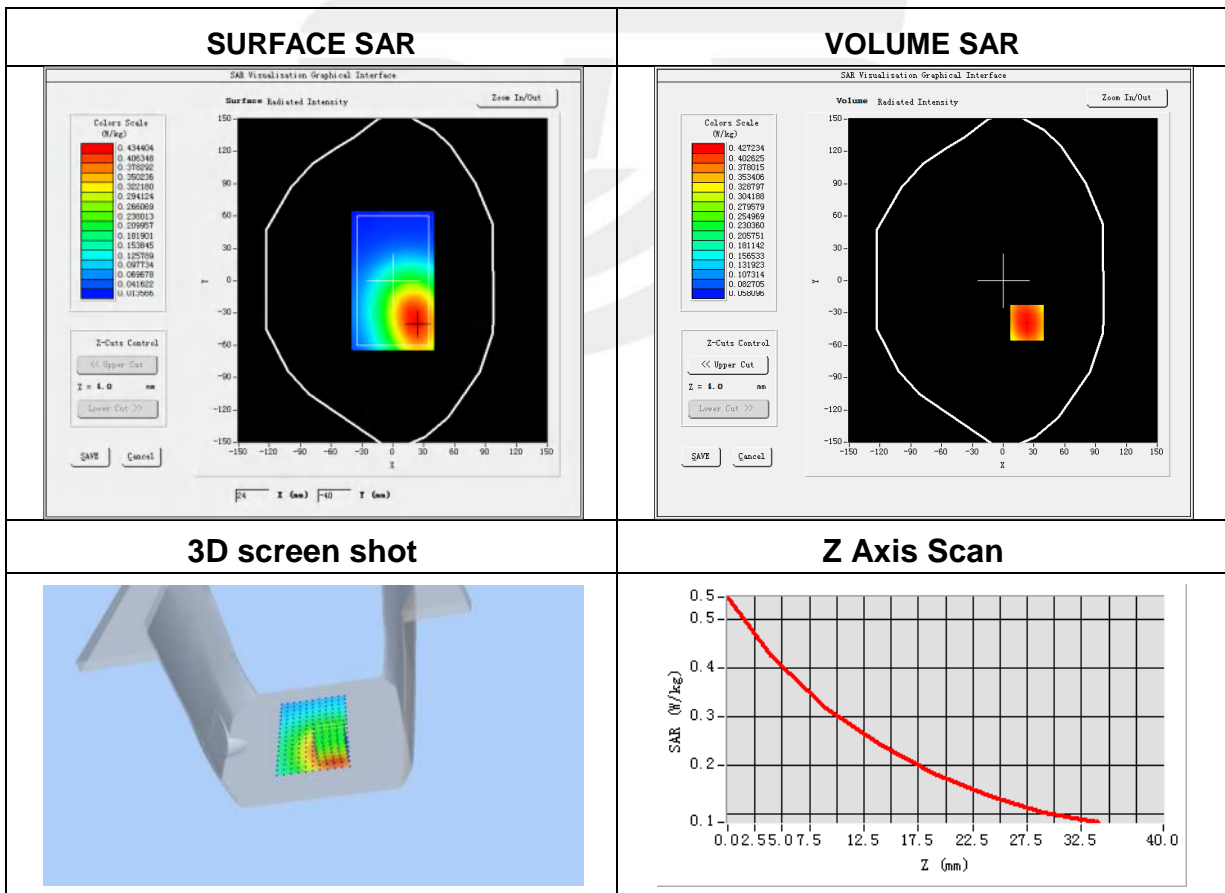
Plot 15: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-13
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Back Side
Band	WCDMA 5
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	826.4
Relative permittivity (real part)	40.88
Conductivity (S/m)	0.93

Maximum location: X=23.00, Y=-39.00

SAR Peak: 0.56 W/kg

SAR 10g (W/Kg)	0.298238
SAR 1g (W/Kg)	0.420177



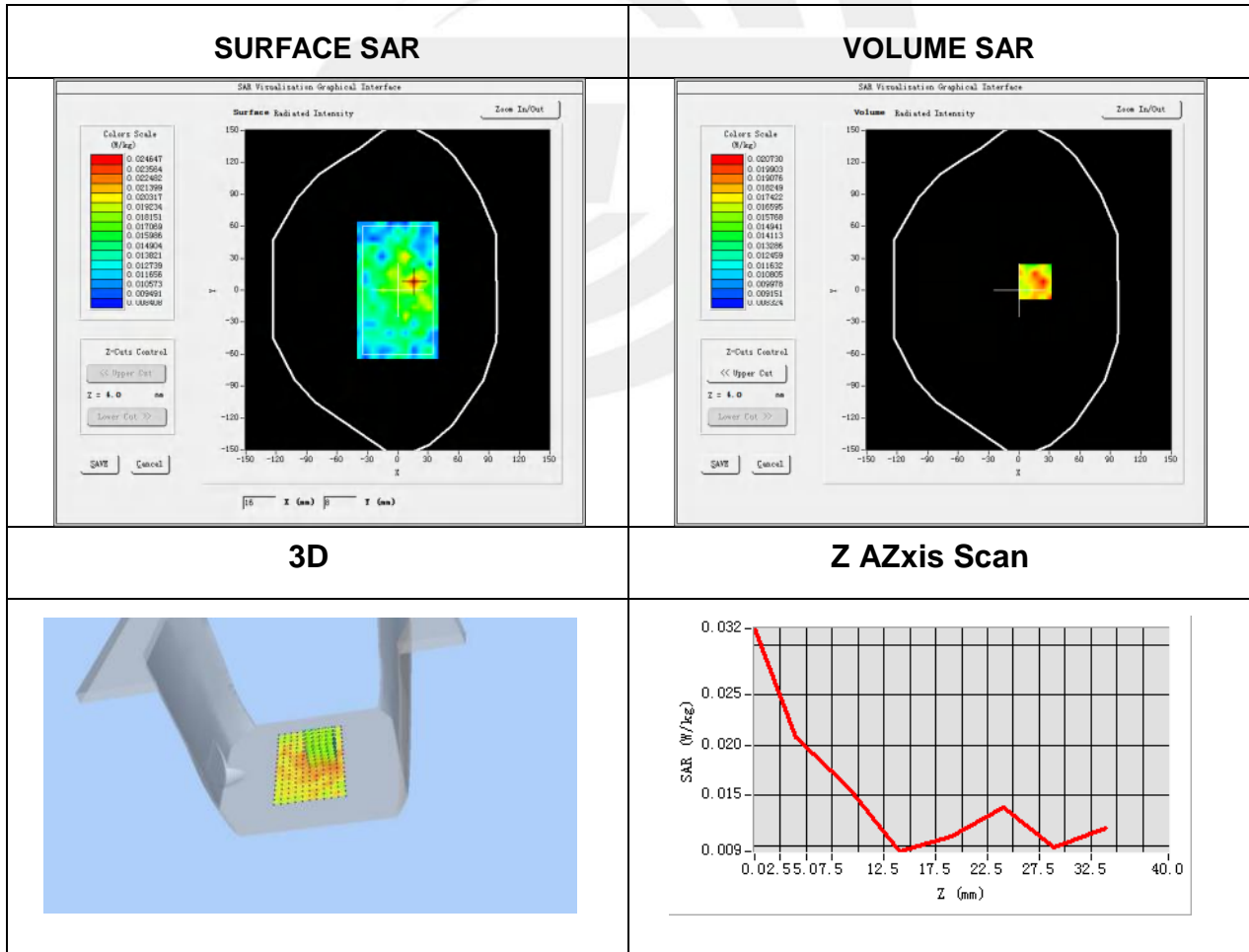
Plot 16: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-17
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Front of face
Band	IEEE 802.11b ISM
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2462
Relative permittivity (real part)	39.60
Conductivity (S/m)	1.76

Maximum location: X=16.00, Y=8.00

SAR Peak: 0.04 W/kg

SAR 10g (W/Kg)	0.014948
SAR 1g (W/Kg)	0.017263



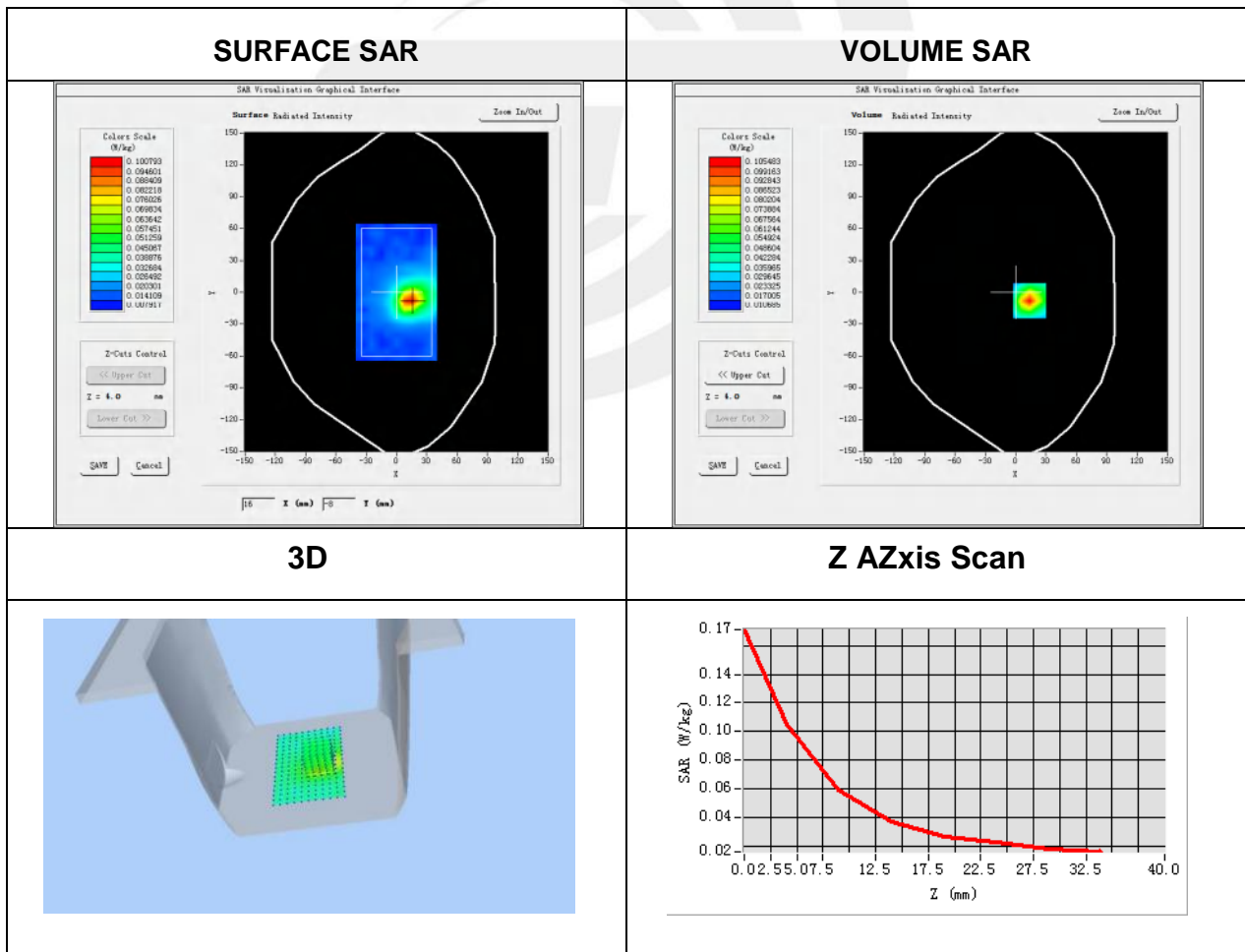
Plot 17: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-17
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Back side with back clip
Band	IEEE 802.11b ISM
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2462
Relative permittivity (real part)	39.60
Conductivity (S/m)	1.76

Maximum location: X=14.00, Y=-8.00

SAR Peak: 0.17 W/kg

SAR 10g (W/Kg)	0.050435
SAR 1g (W/Kg)	0.097022



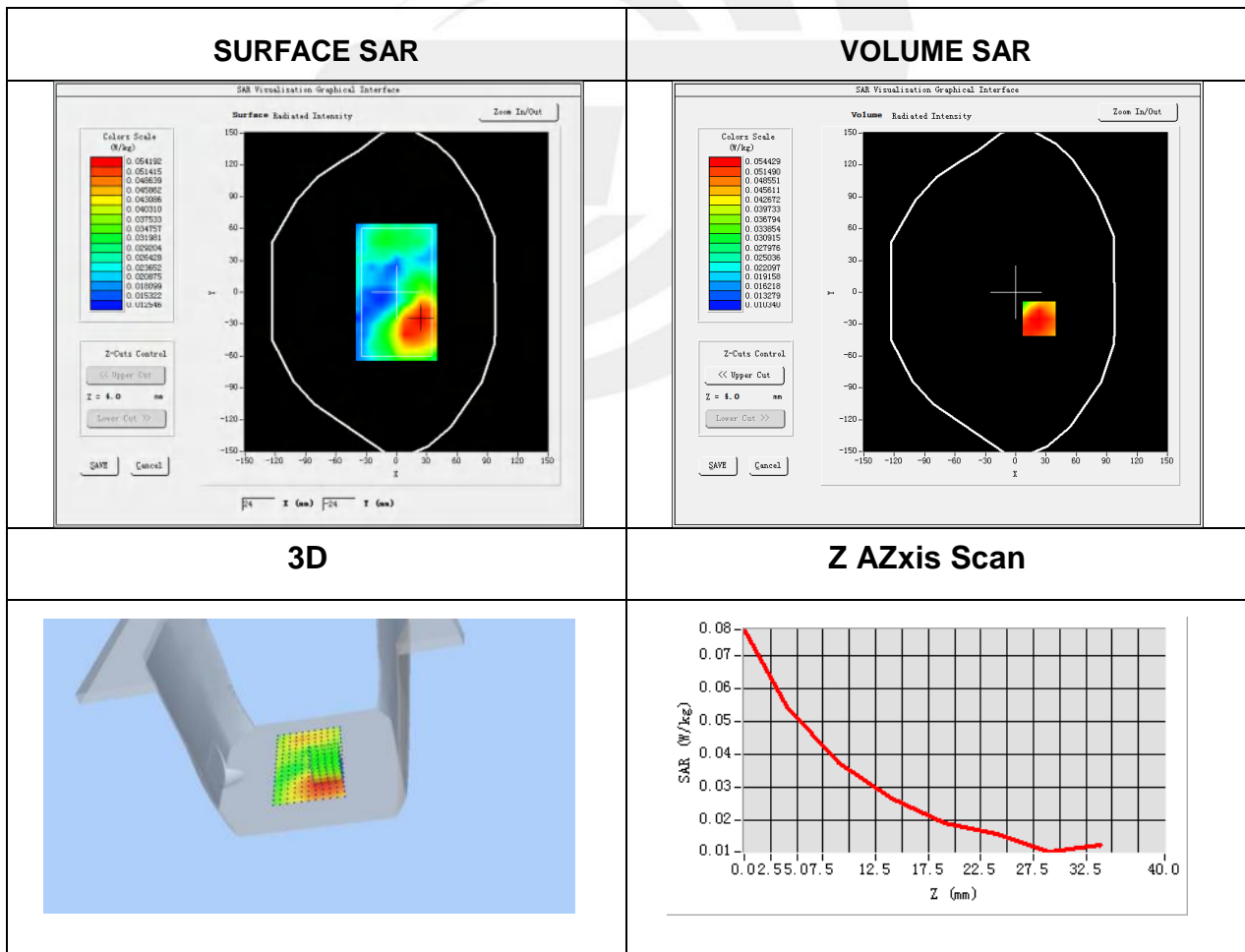
Plot 18: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-17
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Back Side
Band	IEEE 802.11b ISM
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2462
Relative permittivity (real part)	39.60
Conductivity (S/m)	1.76

Maximum location: X=23.00, Y=-25.00

SAR Peak: 0.08 W/kg

SAR 10g (W/Kg)	0.036405
SAR 1g (W/Kg)	0.053767



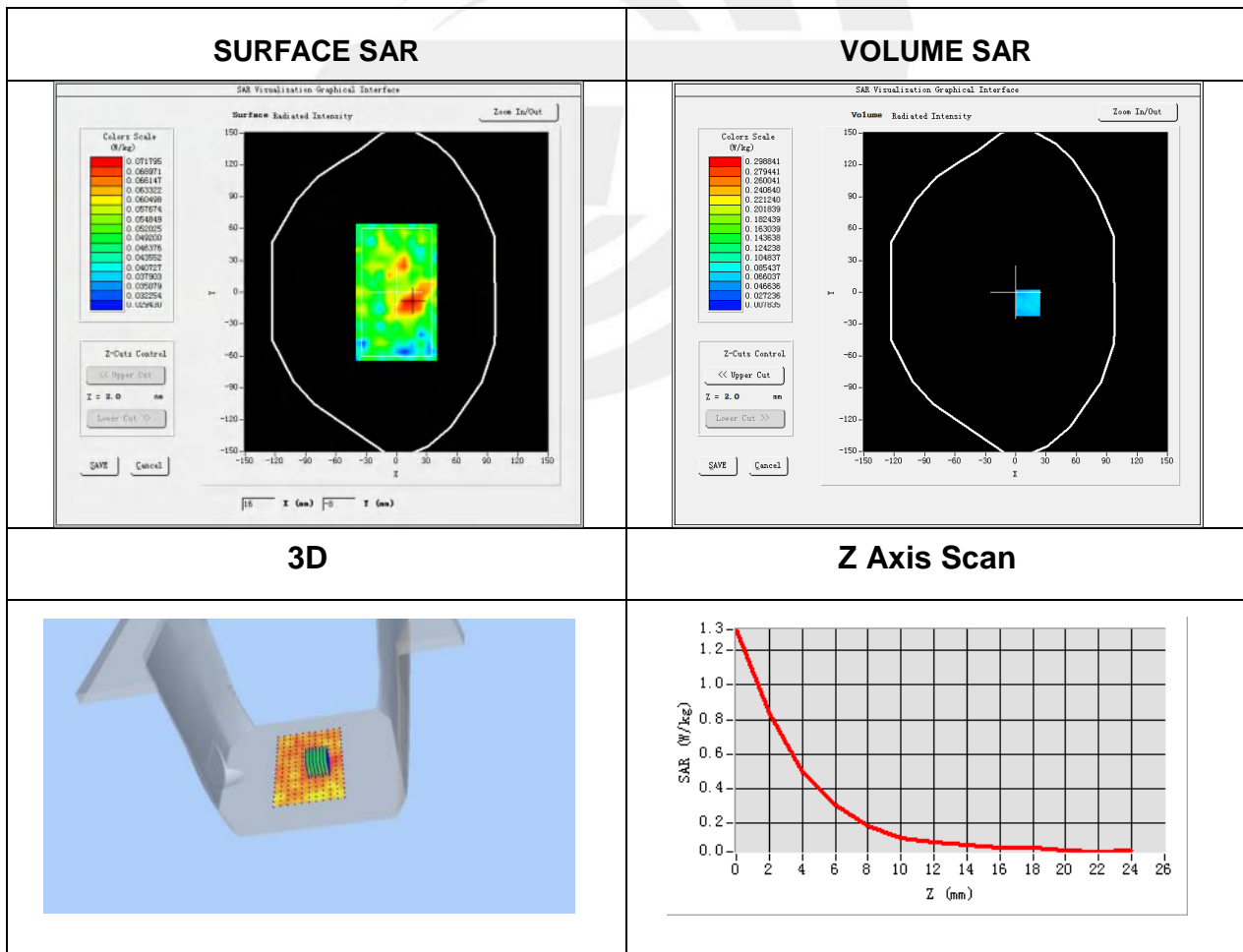
Plot 19: DUT: TELOX SD7; EUT Model: SD7

Test Date	2022-06-27
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Front of face
Band	IEEE 802.11a ISM
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5180
Relative permittivity (real part)	36.86
Conductivity (S/m)	4.62

Maximum location: X=12.00, Y=-10.00

SAR Peak: 0.13 W/kg

SAR 10g (W/Kg)	0.053929
SAR 1g (W/Kg)	0.059731



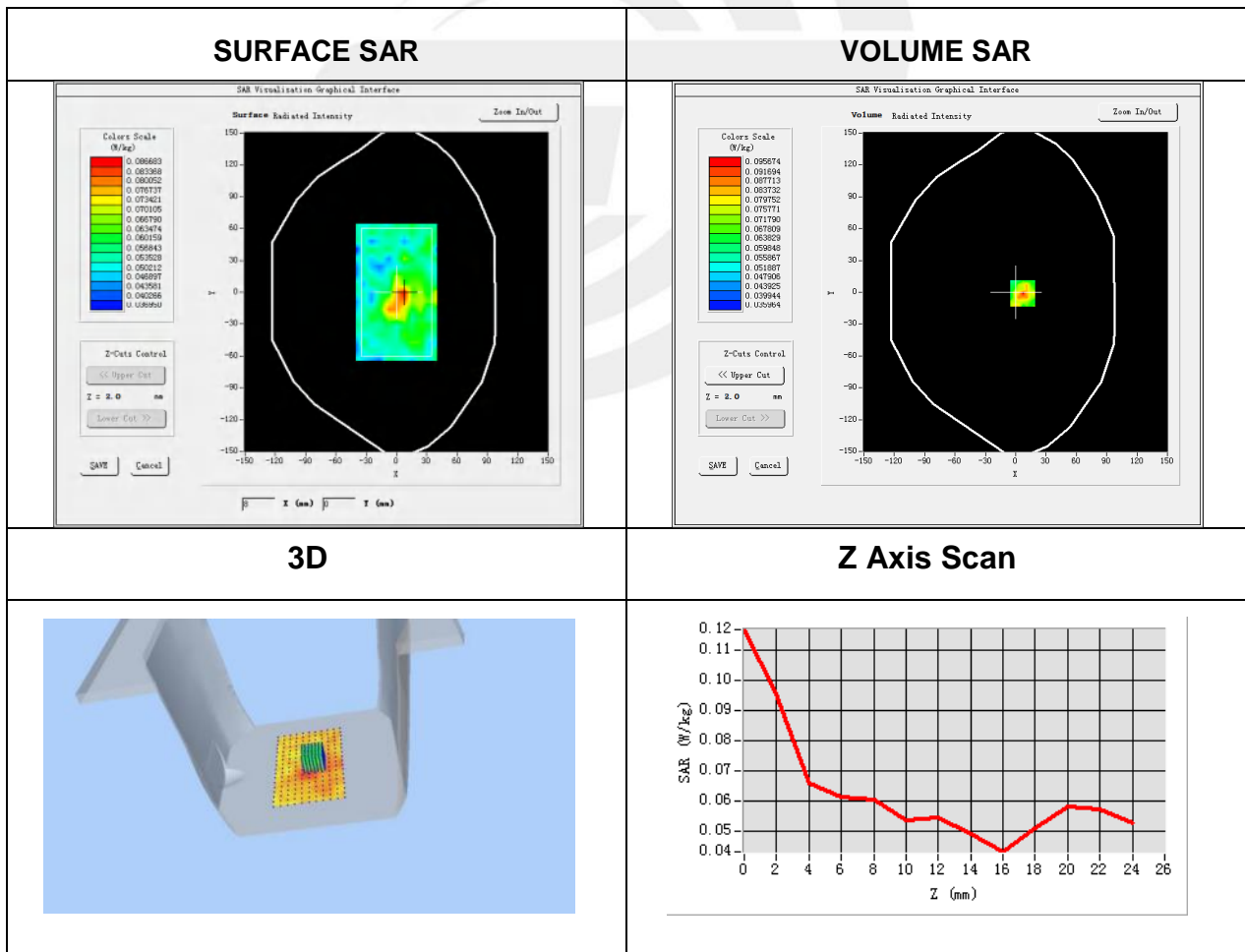
Plot 20: DUT: TELOX SD7; EUT Model: SD7

Test Date	2022-06-27
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Back side with back clip
Band	IEEE 802.11a ISM
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5180
Relative permittivity (real part)	36.86
Conductivity (S/m)	4.62

Maximum location: X=7.00, Y=-1.00

SAR Peak: 0.13 W/kg

SAR 10g (W/Kg)	0.060071
SAR 1g (W/Kg)	0.070129



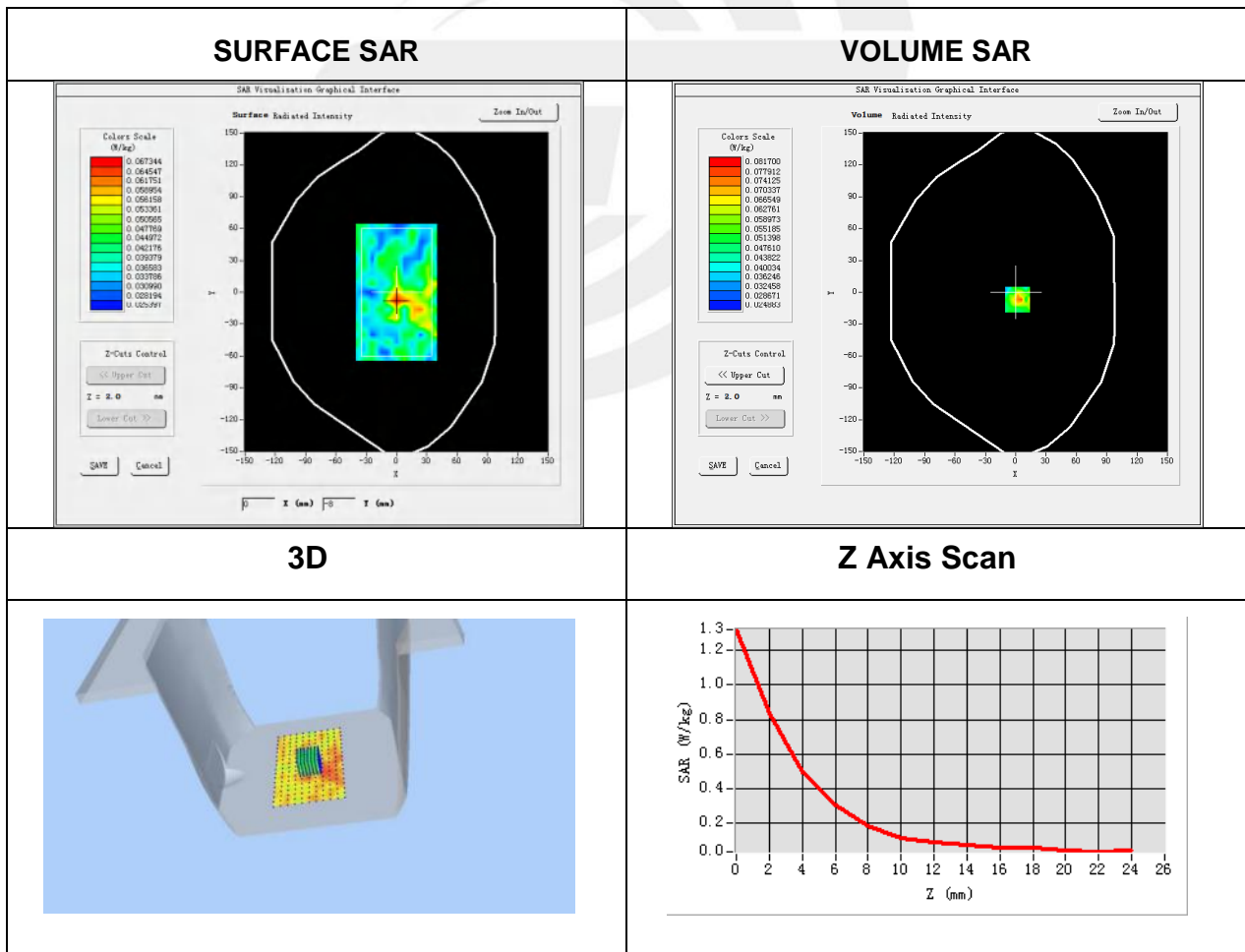
Plot 21: DUT: TELOX SD7; EUT Model: SD7

Test Date	2022-06-27
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Back Side
Band	IEEE 802.11a ISM
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5180
Relative permittivity (real part)	36.86
Conductivity (S/m)	4.62

Maximum location: X=2.00, Y=-7.00

SAR Peak: 0.11 W/kg

SAR 10g (W/Kg)	0.044842
SAR 1g (W/Kg)	0.057407



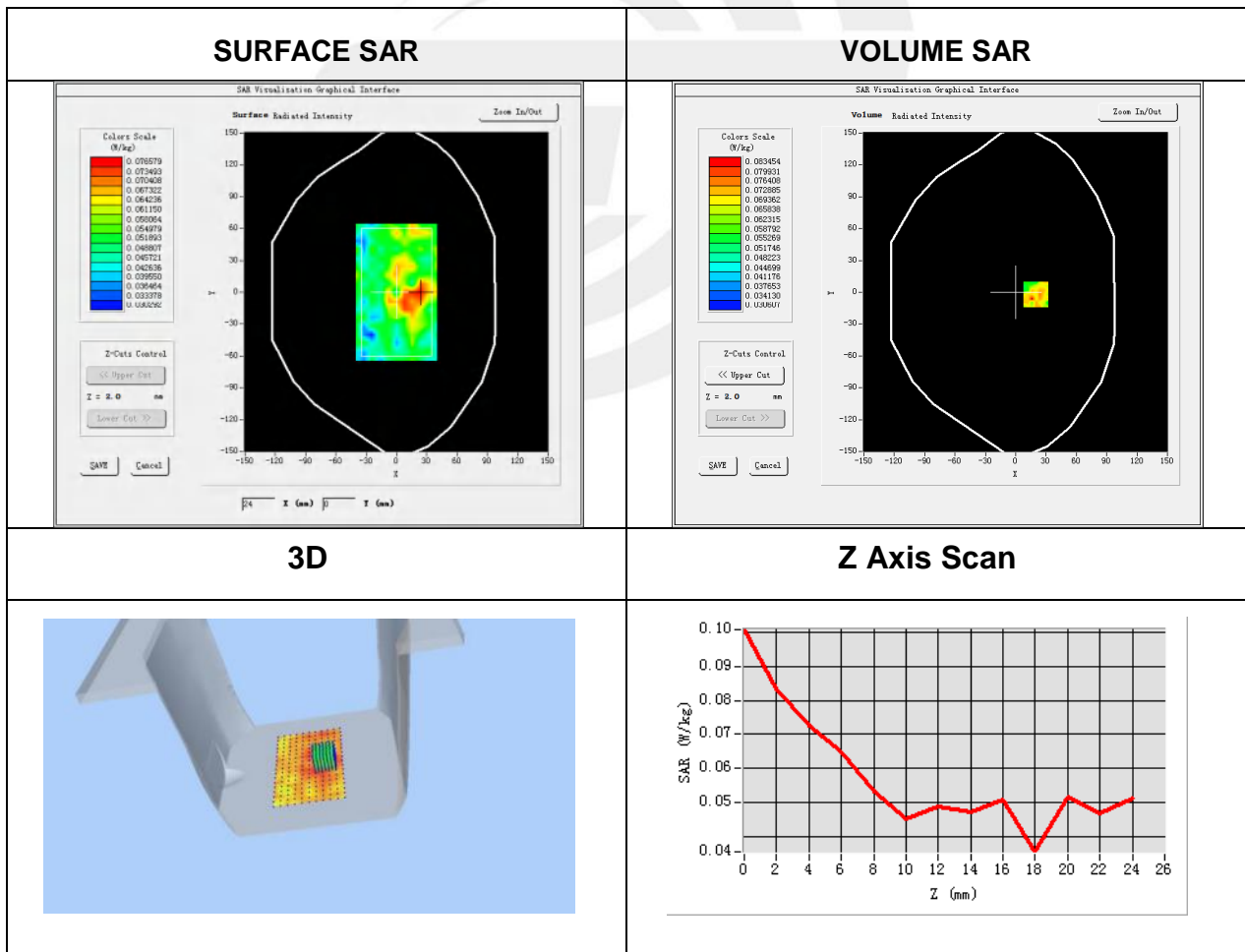
Plot 22: DUT: TELOX SD7; EUT Model: SD7

Test Date	2022-06-27
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Front of face
Band	IEEE 802.11a ISM
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5745
Relative permittivity (real part)	35.90
Conductivity (S/m)	5.15

Maximum location: X=20.00, Y=-2.00

SAR Peak: 0.12 W/kg

SAR 10g (W/Kg)	0.053638
SAR 1g (W/Kg)	0.064719



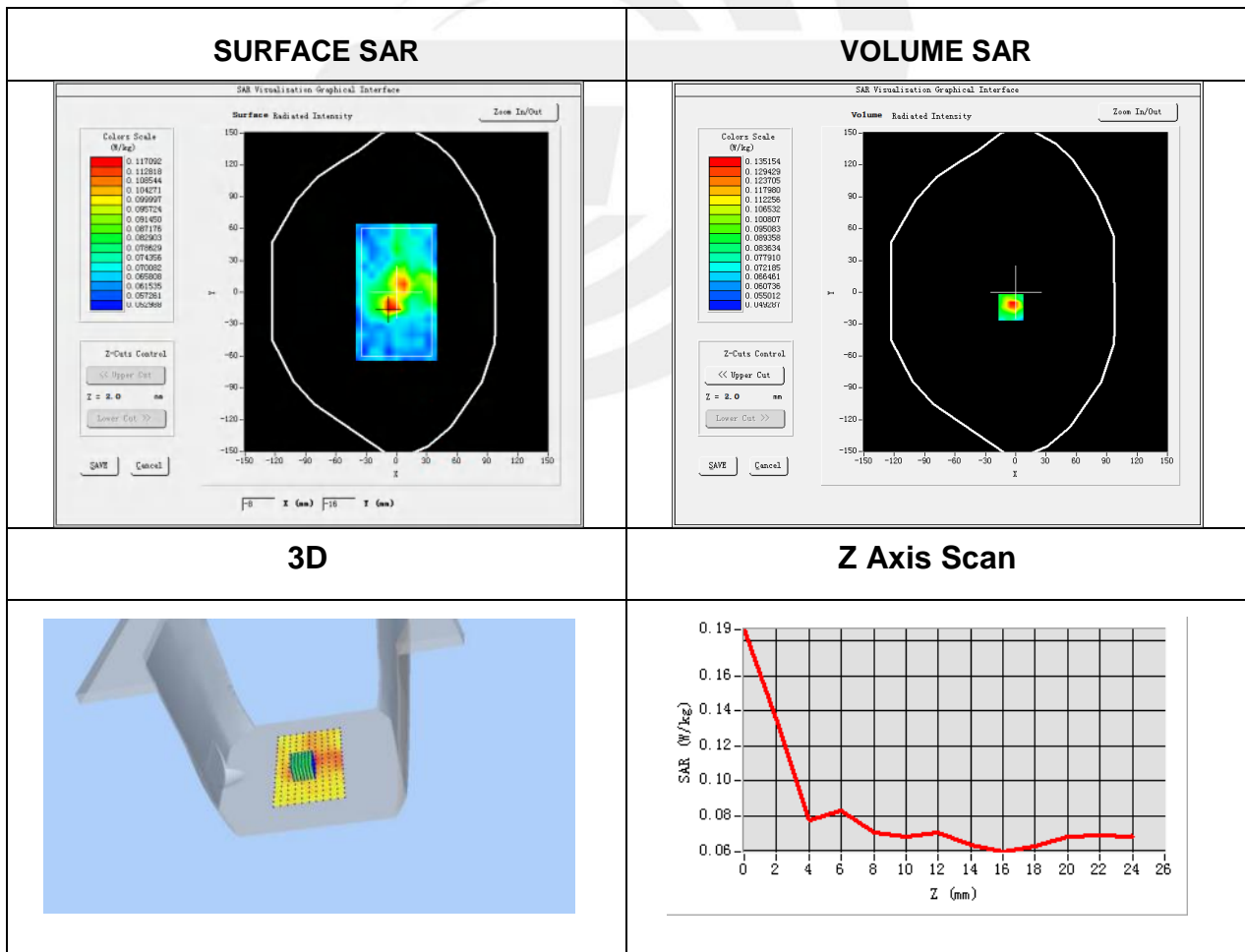
Plot 23: DUT: TELOX SD7; EUT Model: SD7

Test Date	2022-06-27
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Back side with back clip
Band	IEEE 802.11a ISM
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5745
Relative permittivity (real part)	35.90
Conductivity (S/m)	5.15

Maximum location: X=-5.00, Y=-14.00

SAR Peak: 0.20 W/kg

SAR 10g (W/Kg)	0.076030
SAR 1g (W/Kg)	0.100976



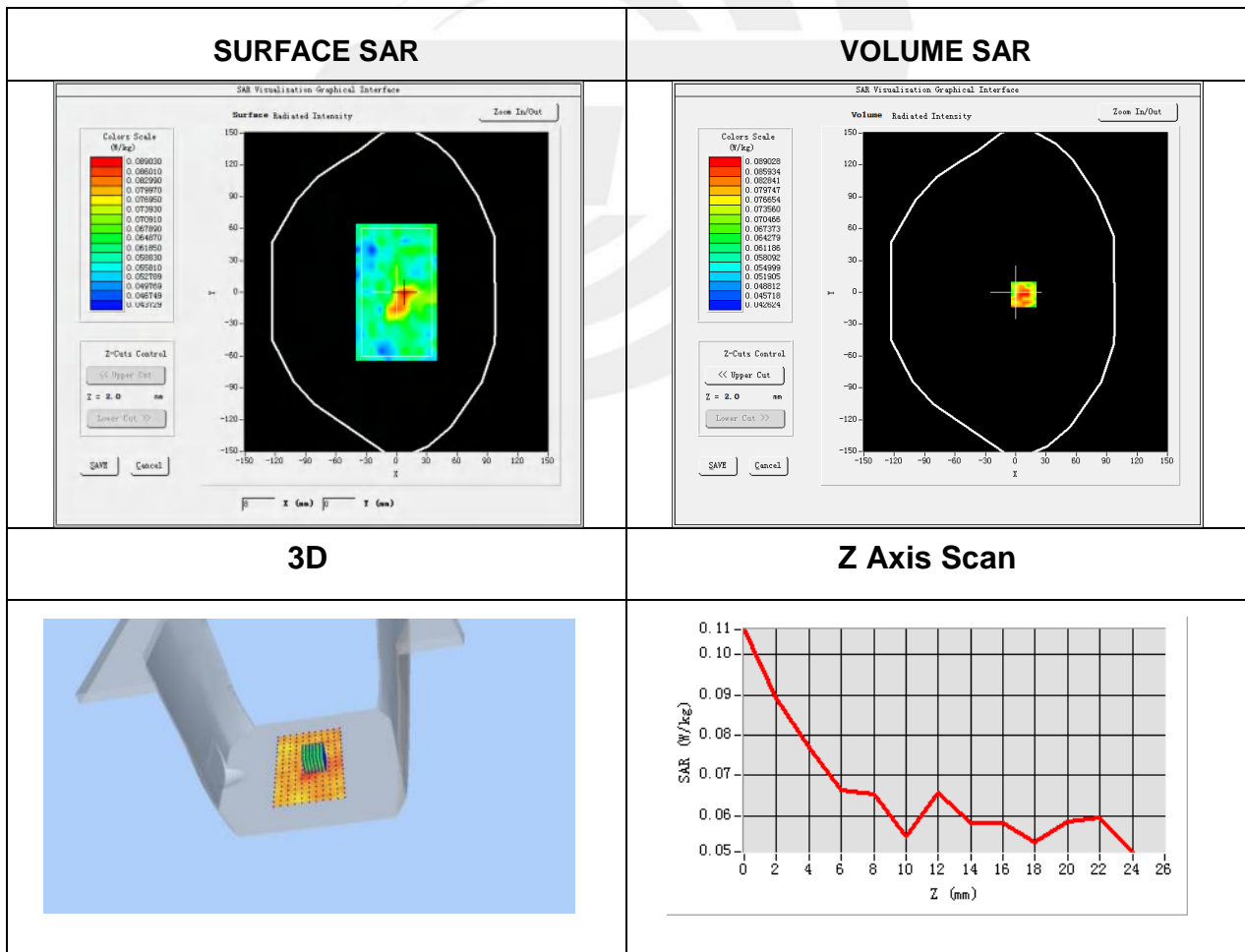
Plot 24: DUT: TELOX SD7; EUT Model: SD7

Test Date	2022-06-27
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Back Side
Band	IEEE 802.11a ISM
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5745
Relative permittivity (real part)	35.90
Conductivity (S/m)	5.15

Maximum location: X=8.00, Y=-2.00

SAR Peak: 0.12 W/kg

SAR 10g (W/Kg)	0.063763
SAR 1g (W/Kg)	0.075061

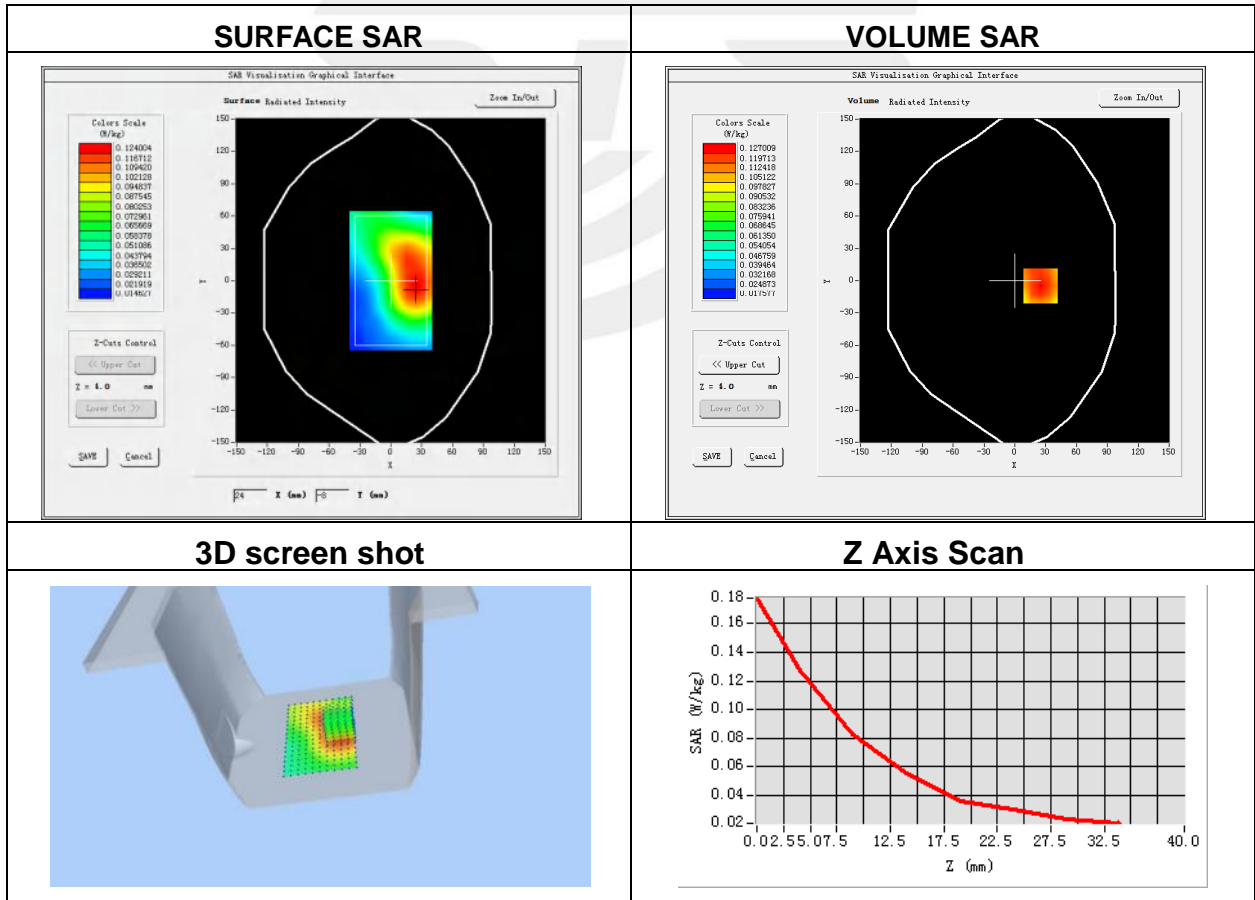


Plot 25: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-14
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Front of face
Band	LTE Band 2(RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1880
Relative permittivity (real part)	40.62
Conductivity (S/m)	1.50

Maximum location: X=25.00, Y=-5.00
SAR Peak: 0.18 W/kg

SAR 10g (W/Kg)	0.056821
SAR 1g (W/Kg)	0.079210



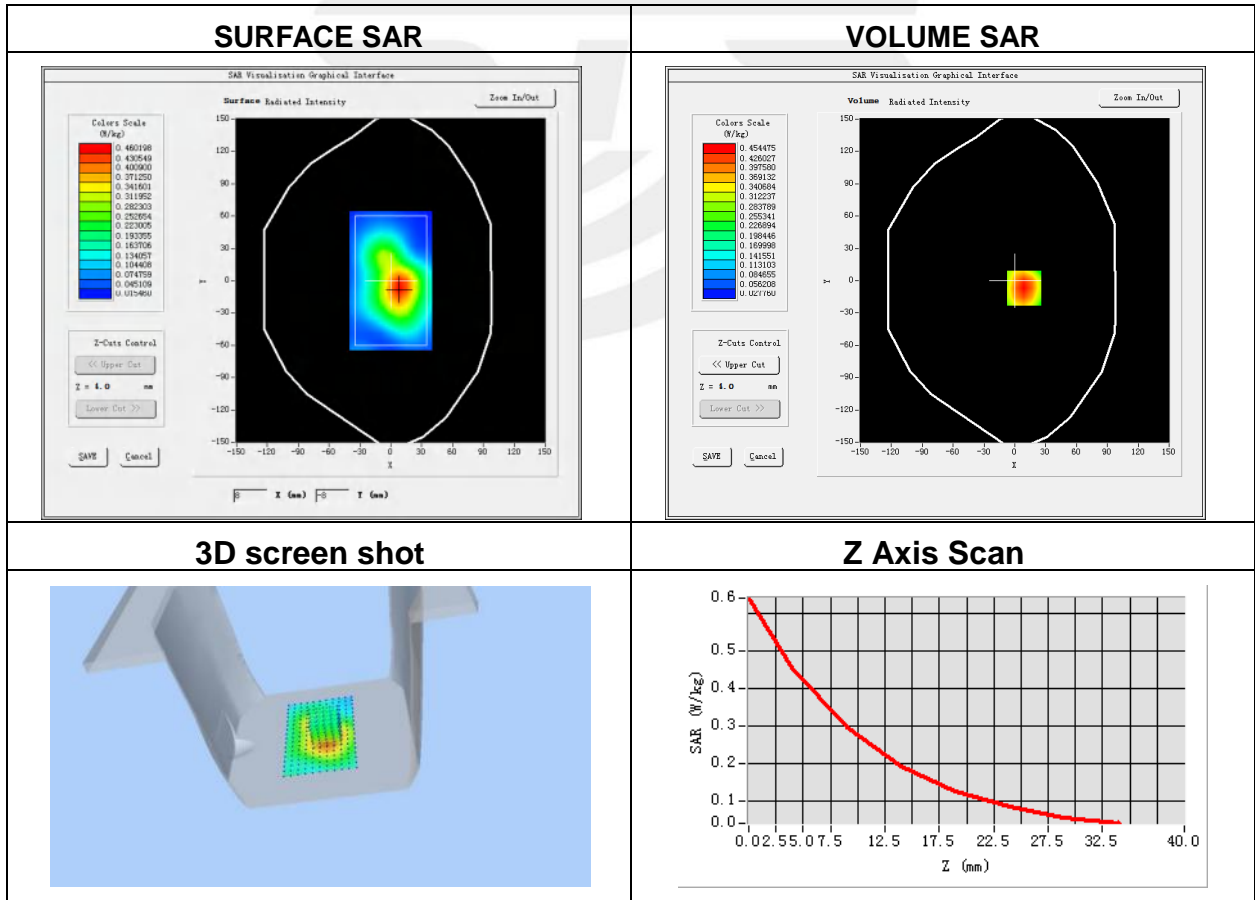
Plot 26: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-14
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Back side with back clip
Band	LTE Band 2(RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1880
Relative permittivity (real part)	40.62
Conductivity (S/m)	1.50

Maximum location: X=9.00, Y=-7.00

SAR Peak: 0.65 W/kg

SAR 10g (W/Kg)	0.266254
SAR 1g (W/Kg)	0.434637



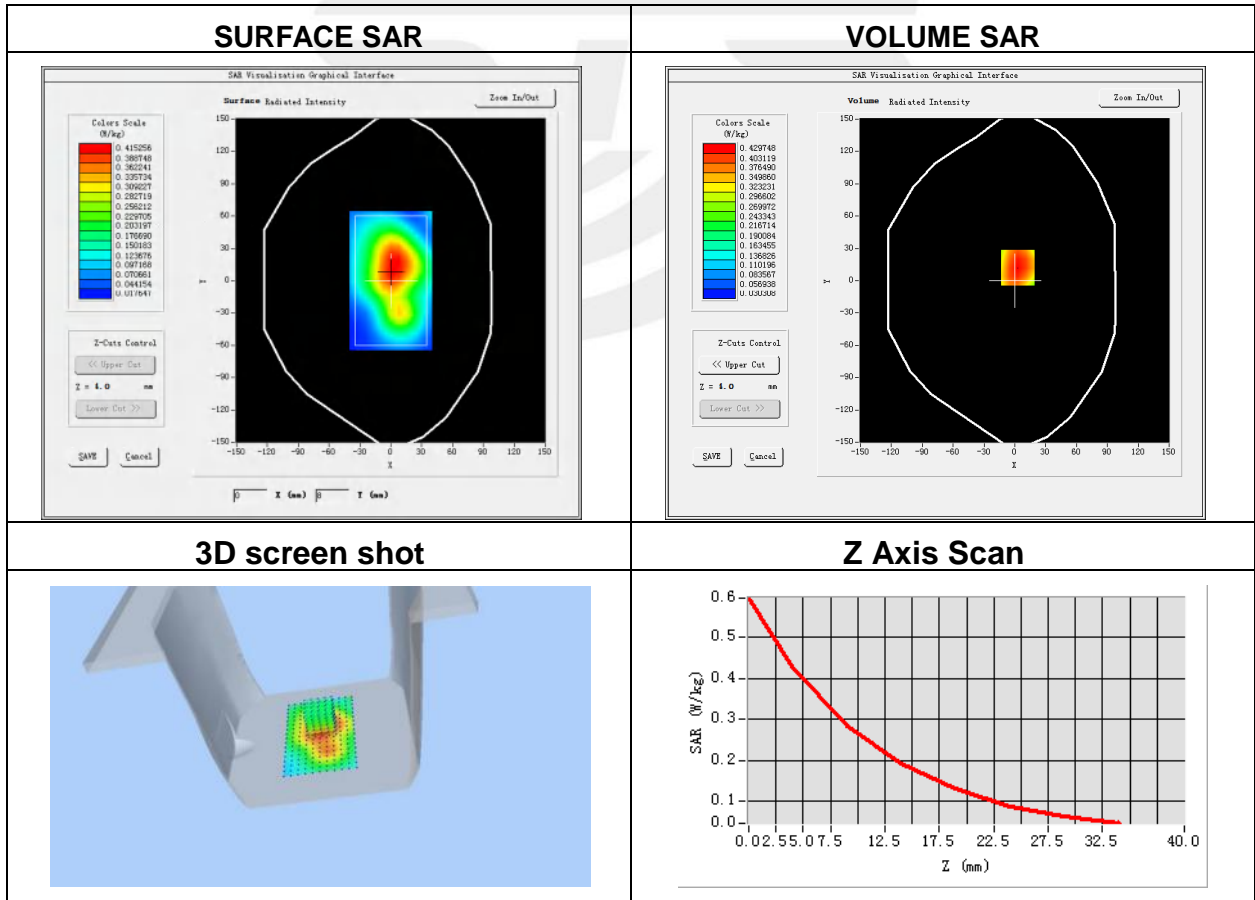
Plot 27: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-14
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 2(RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1880
Relative permittivity (real part)	40.62
Conductivity (S/m)	1.50

Maximum location: X=3.00, Y=12.00

SAR Peak: 0.60 W/kg

SAR 10g (W/Kg)	0.268487
SAR 1g (W/Kg)	0.414309



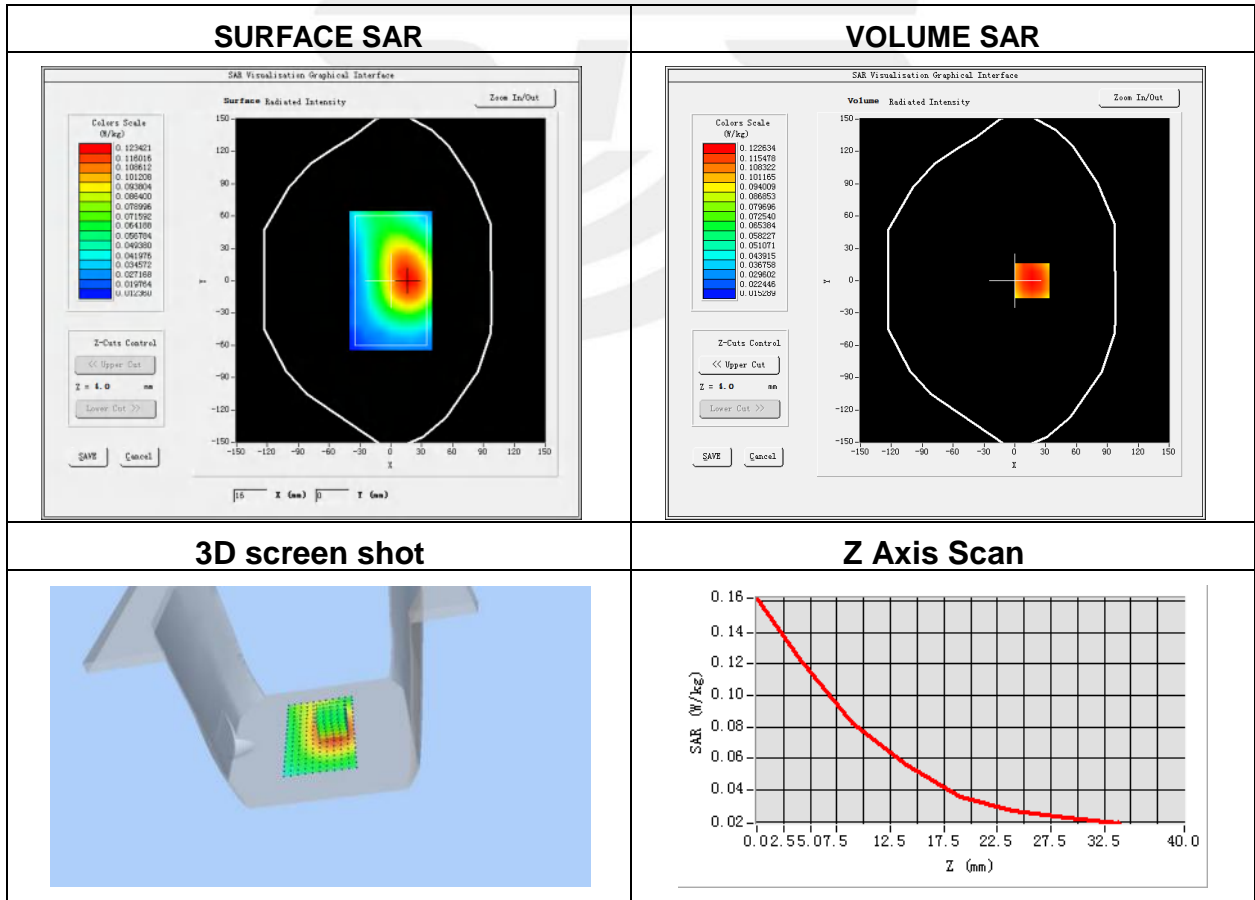
Plot 28: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-14
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Front of face
Band	LTE Band 4(RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1720
Relative permittivity (real part)	41.38
Conductivity (S/m)	1.34

Maximum location: X=17.00, Y=0.00

SAR Peak: 0.17 W/kg

SAR 10g (W/Kg)	0.077546
SAR 1g (W/Kg)	0.116504



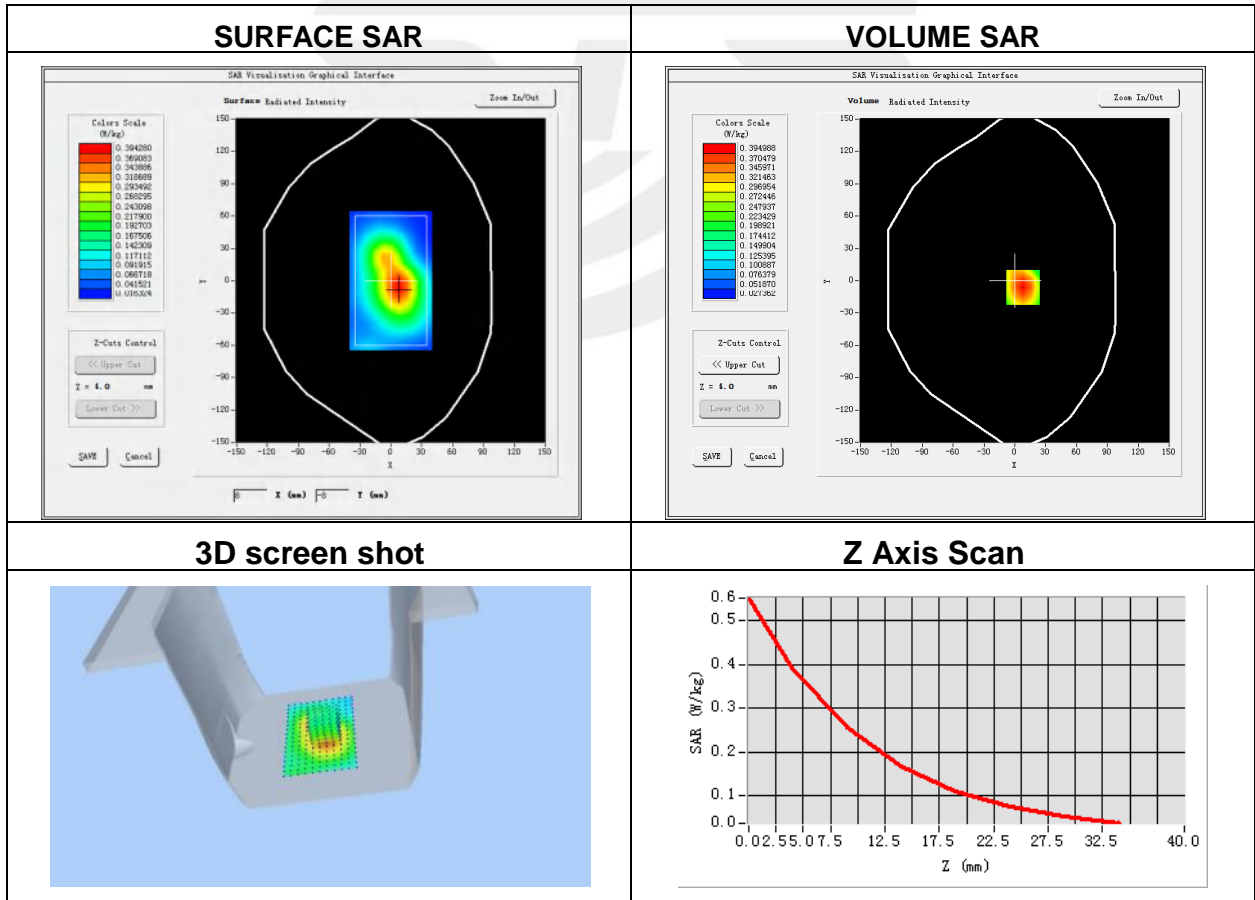
Plot 29: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-14
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Back side with back clip
Band	LTE Band 4(RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1720
Relative permittivity (real part)	41.38
Conductivity (S/m)	1.34

Maximum location: X=8.00, Y=-6.00

SAR Peak: 0.56 W/kg

SAR 10g (W/Kg)	0.233900
SAR 1g (W/Kg)	0.376823

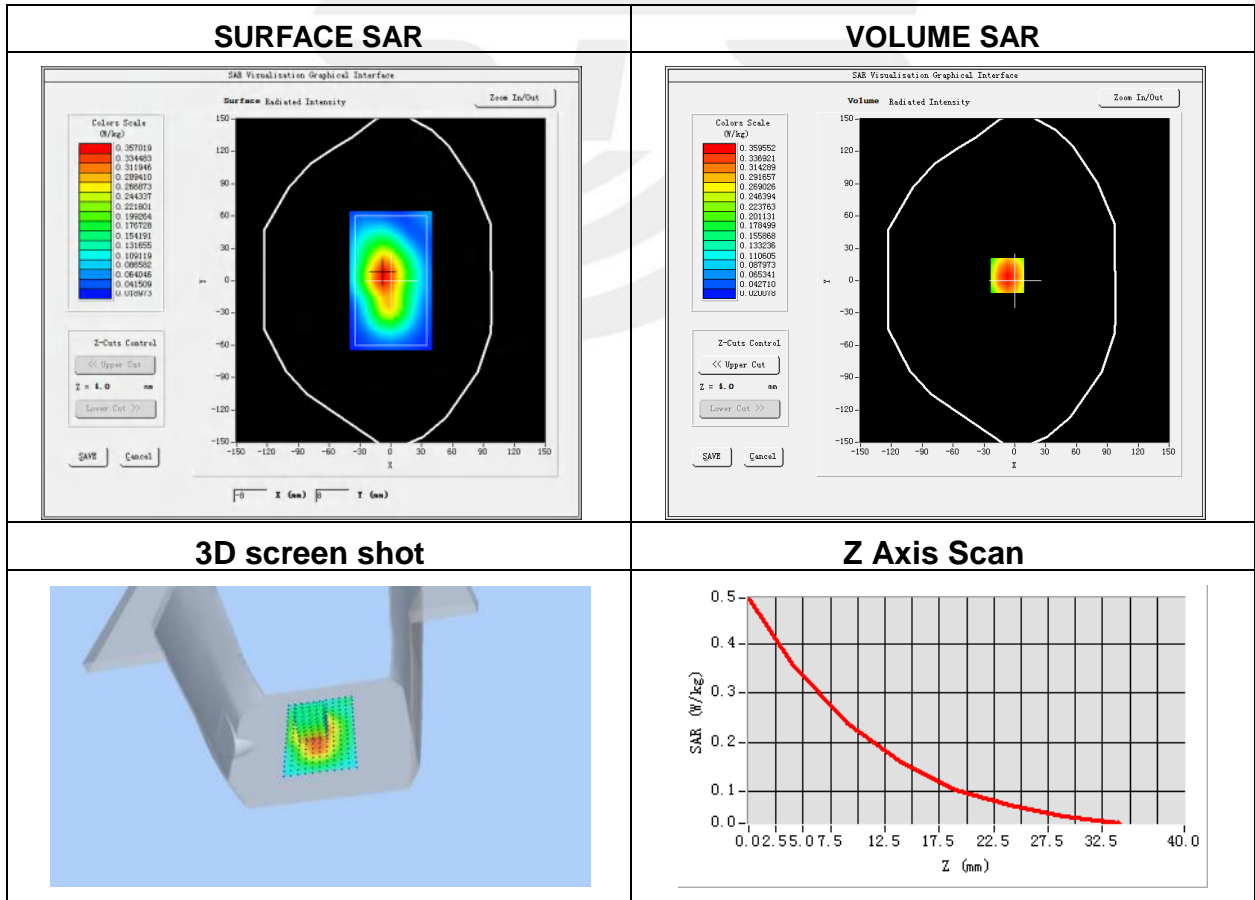


Plot 30: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-14
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 4(RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1720
Relative permittivity (real part)	41.38
Conductivity (S/m)	1.34

Maximum location: X=-7.00, Y=5.00
SAR Peak: 0.50 W/kg

SAR 10g (W/Kg)	0.215398
SAR 1g (W/Kg)	0.343787



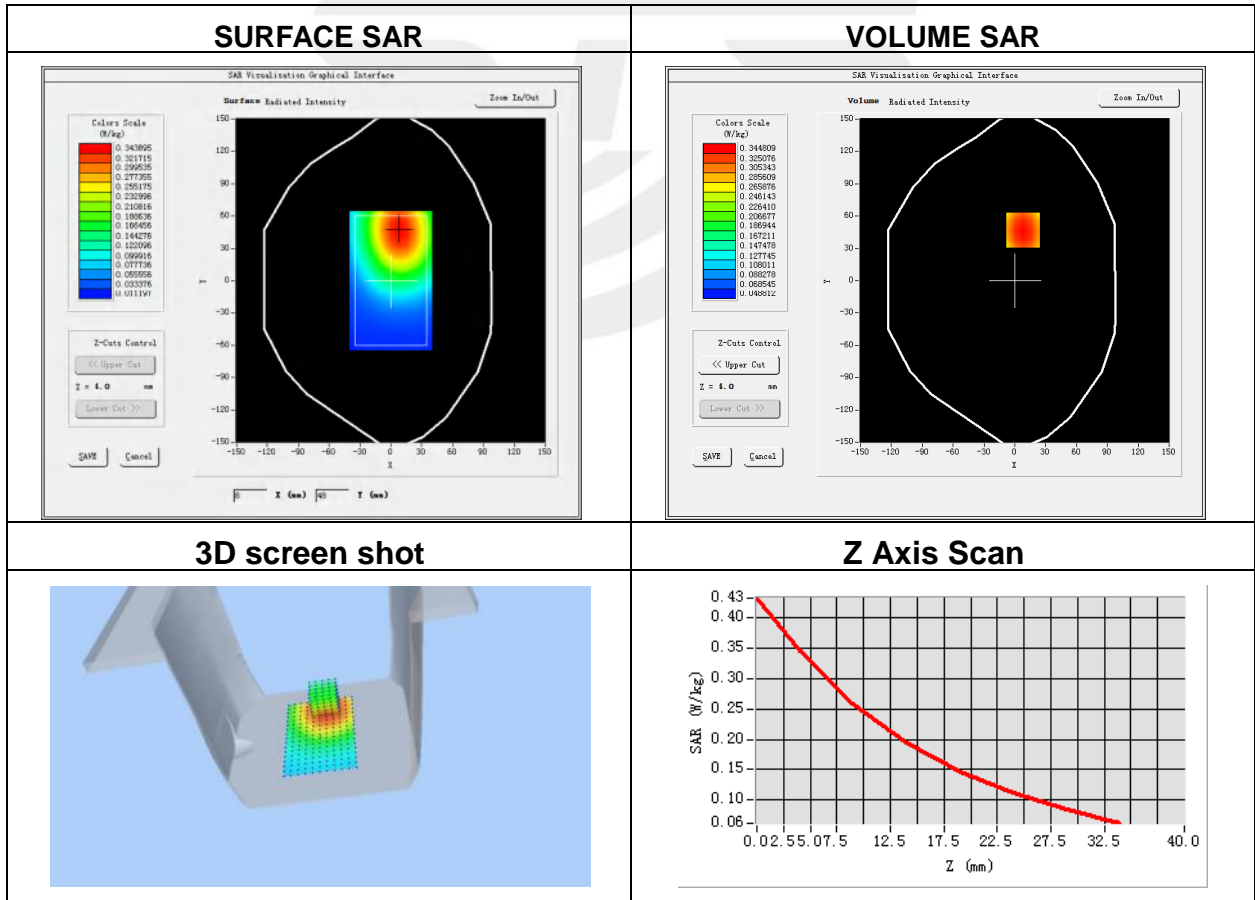
Plot 31: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-13
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Front of face
Band	LTE Band 5(RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	844
Relative permittivity (real part)	41.78
Conductivity (S/m)	0.88

Maximum location: X=8.00, Y=47.00

SAR Peak: 0.43 W/kg

SAR 10g (W/Kg)	0.185941
SAR 1g (W/Kg)	0.242541

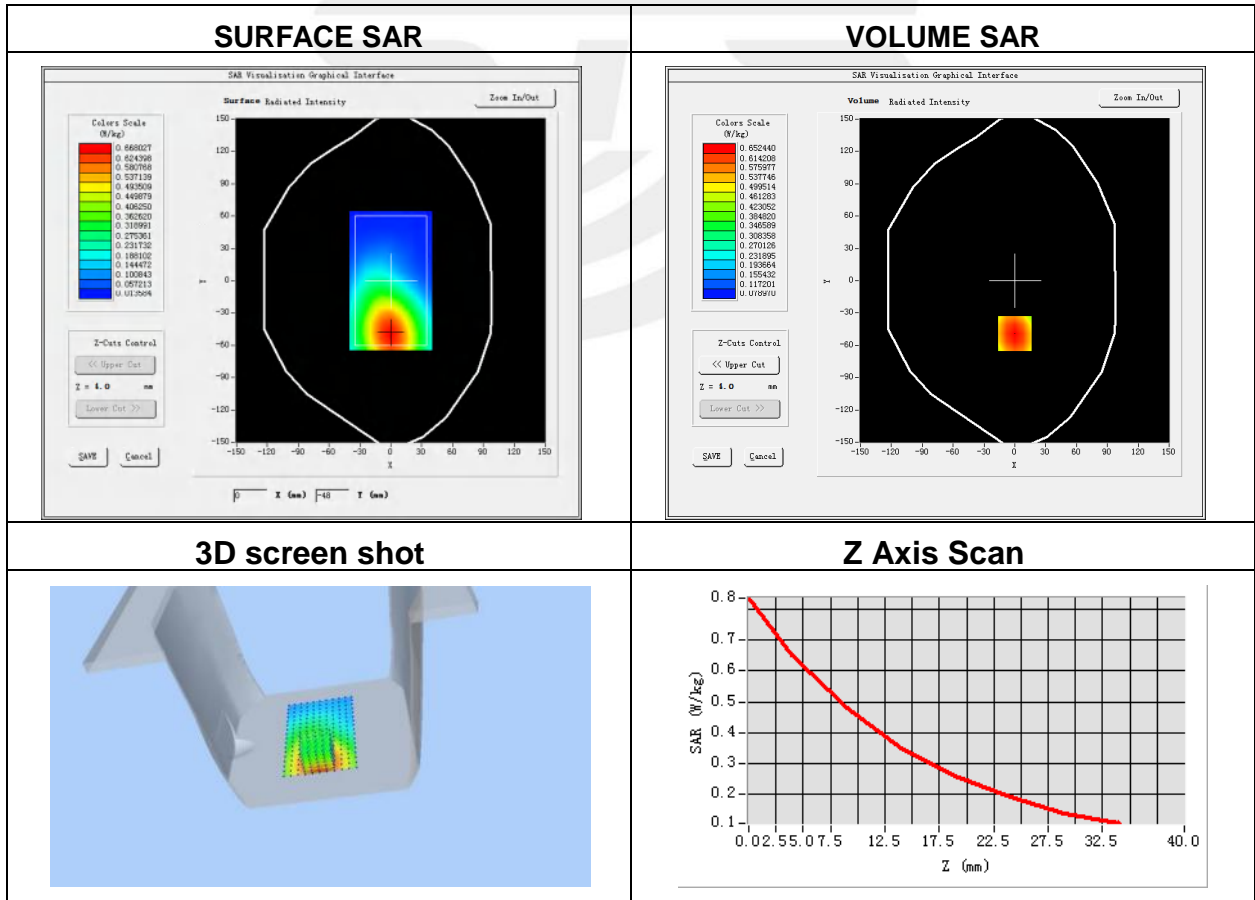


Plot 32: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-13
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Back side with back clip
Band	LTE Band 5(RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	844
Relative permittivity (real part)	41.78
Conductivity (S/m)	0.88

Maximum location: X=0.00, Y=-49.00
SAR Peak: 0.83 W/kg

SAR 10g (W/Kg)	0.444330
SAR 1g (W/Kg)	0.633699



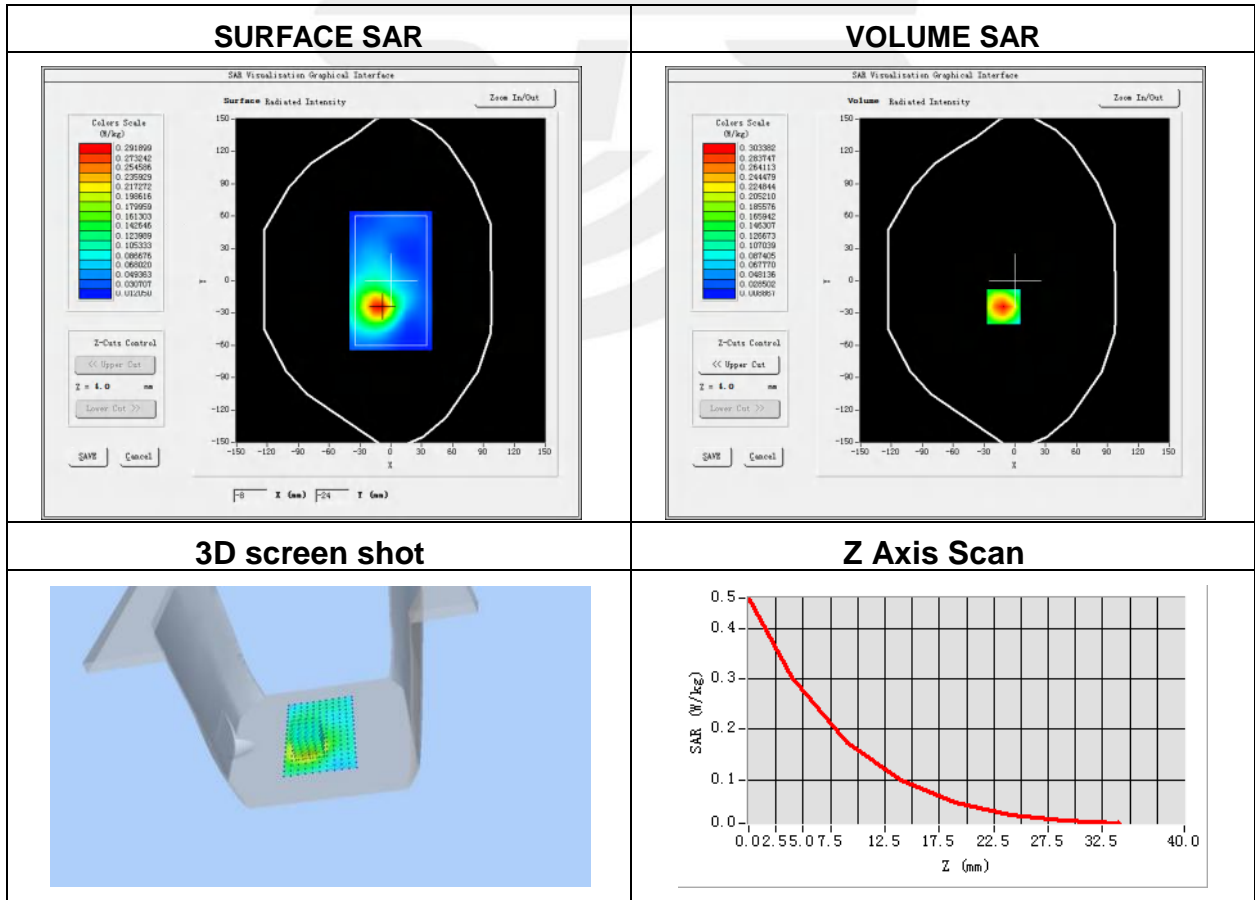
Plot 33: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-13
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 5(RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	844
Relative permittivity (real part)	41.78
Conductivity (S/m)	0.88

Maximum location: X=-11.00, Y=-24.00

SAR Peak: 0.46 W/kg

SAR 10g (W/Kg)	0.151470
SAR 1g (W/Kg)	0.285067



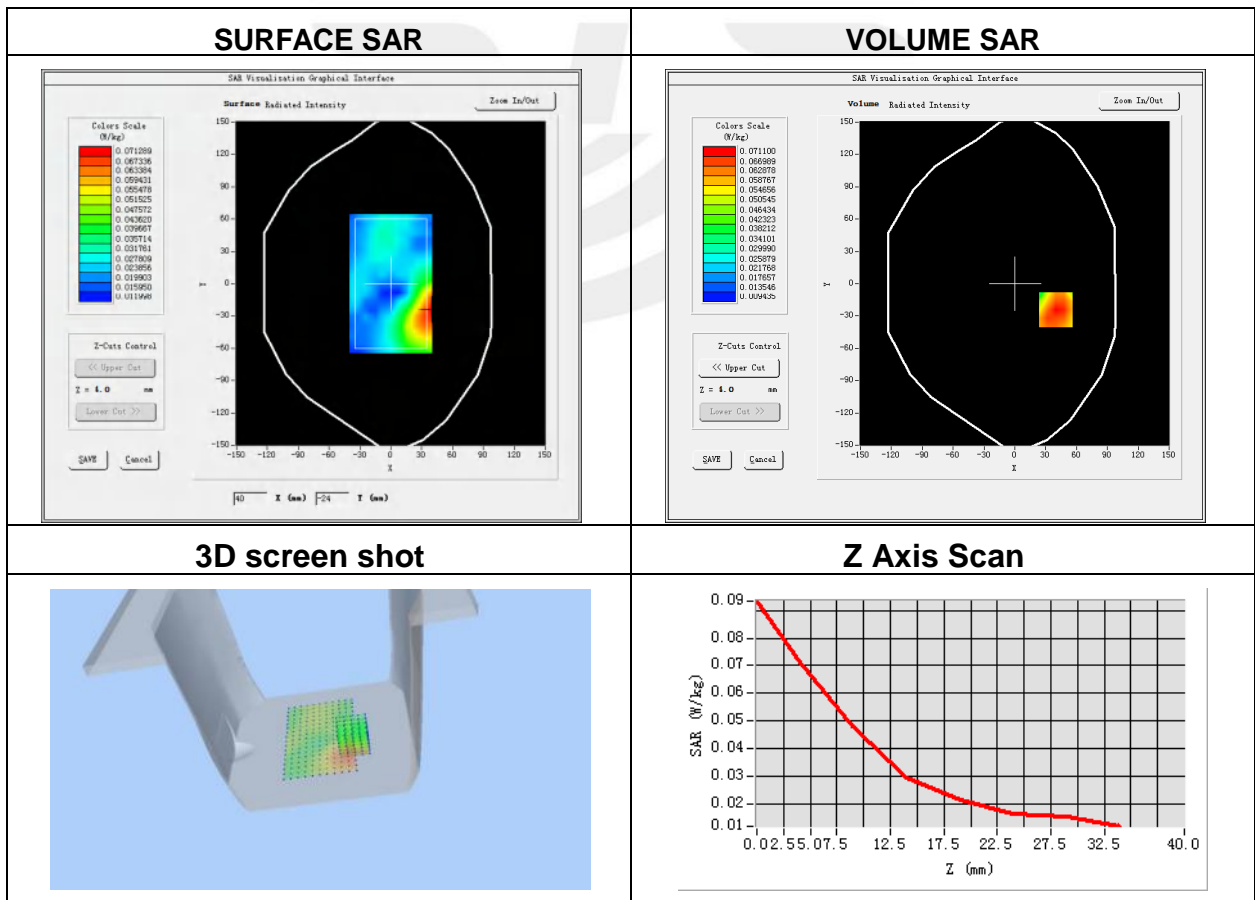
Plot 34: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-20
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Front of face
Band	LTE Band 7(RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2560
Relative permittivity (real part)	39.78
Conductivity (S/m)	1.94

Maximum location: X=40.00, Y=-24.00

SAR Peak: 0.10 W/kg

SAR 10g (W/Kg)	0.045028
SAR 1g (W/Kg)	0.067346



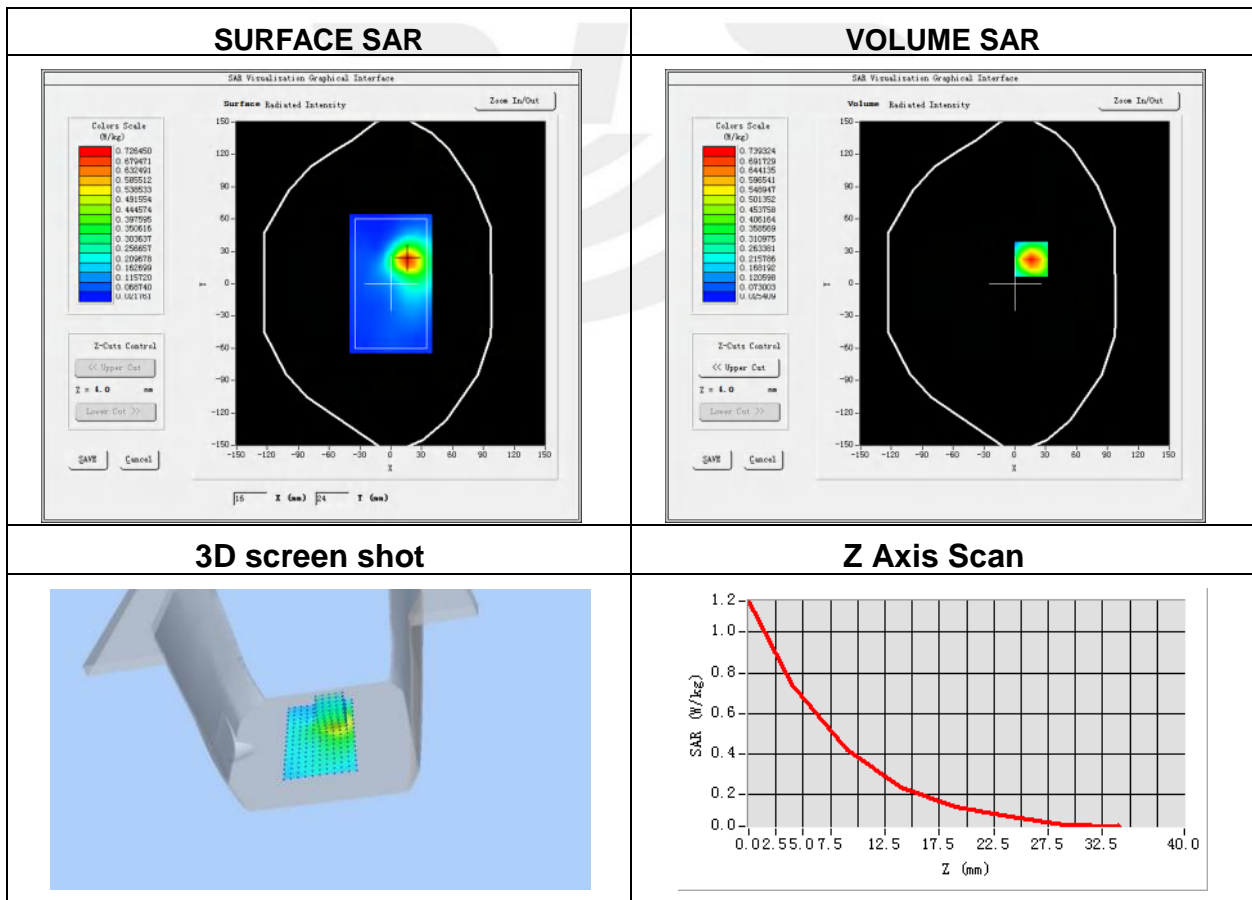
Plot 35: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-20
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Back side with back clip
Band	LTE Band 7(RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2560
Relative permittivity (real part)	39.78
Conductivity (S/m)	1.94

Maximum location: X=16.00, Y=23.00

SAR Peak: 1.15 W/kg

SAR 10g (W/Kg)	0.353969
SAR 1g (W/Kg)	0.691187



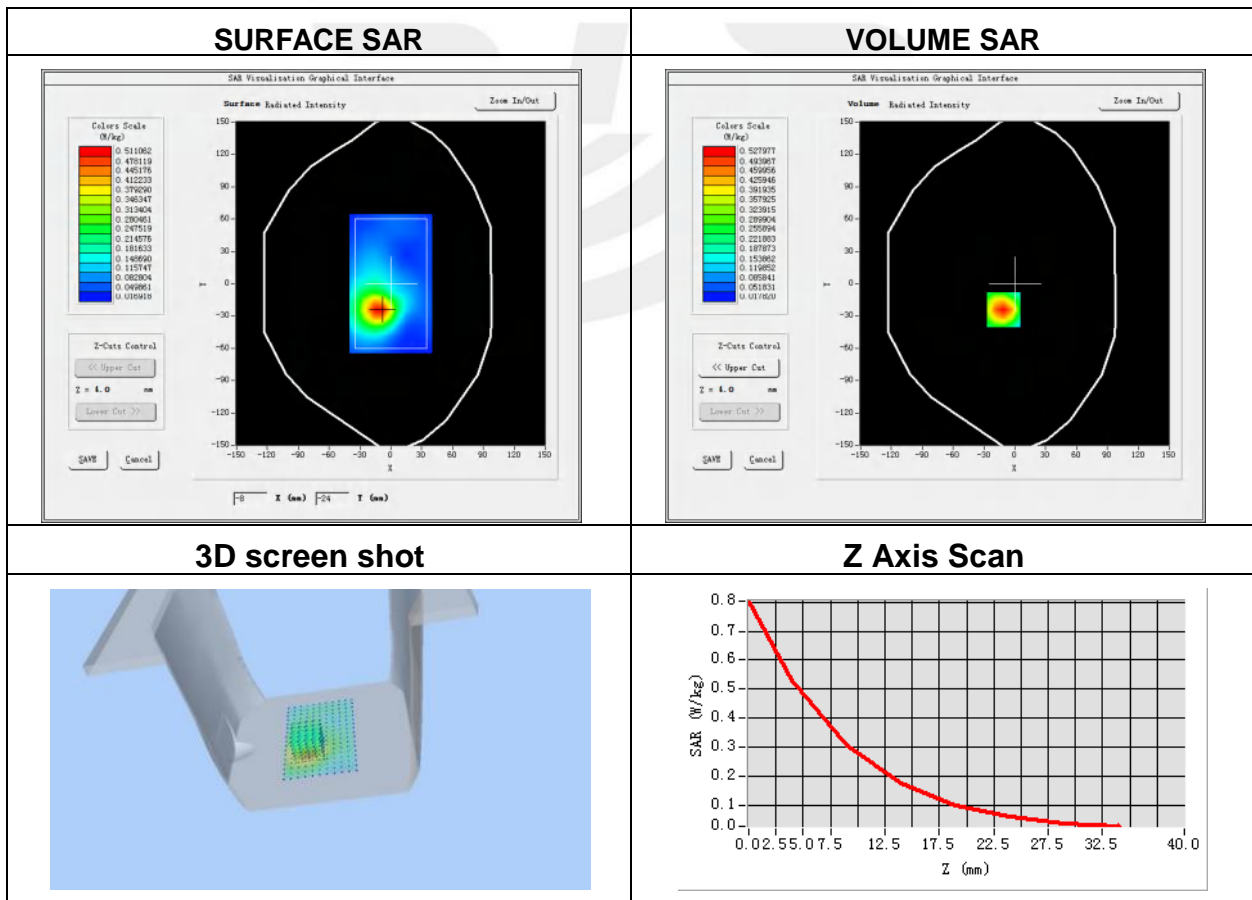
Plot 36: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-20
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 7(RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2560
Relative permittivity (real part)	39.78
Conductivity (S/m)	1.94

Maximum location: X=-11.00, Y=-24.00

SAR Peak: 0.80 W/kg

SAR 10g (W/Kg)	0.263149
SAR 1g (W/Kg)	0.494200



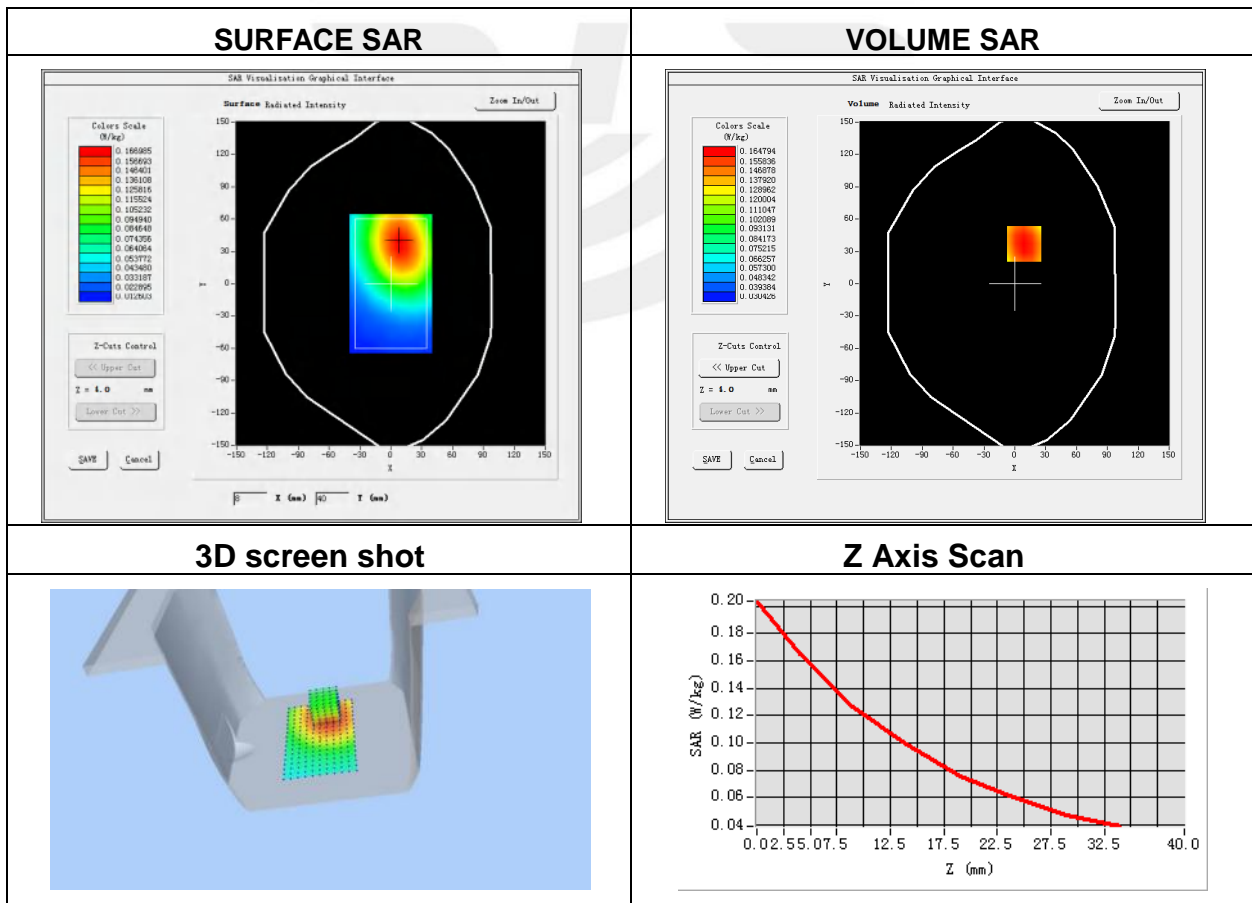
Plot 37: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-10
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Front of face
Band	LTE Band 12(RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	711
Relative permittivity (real part)	42.33
Conductivity (S/m)	0.88

Maximum location: X=9.00, Y=37.00

SAR Peak: 0.21 W/kg

SAR 10g (W/Kg)	0.120298
SAR 1g (W/Kg)	0.163033



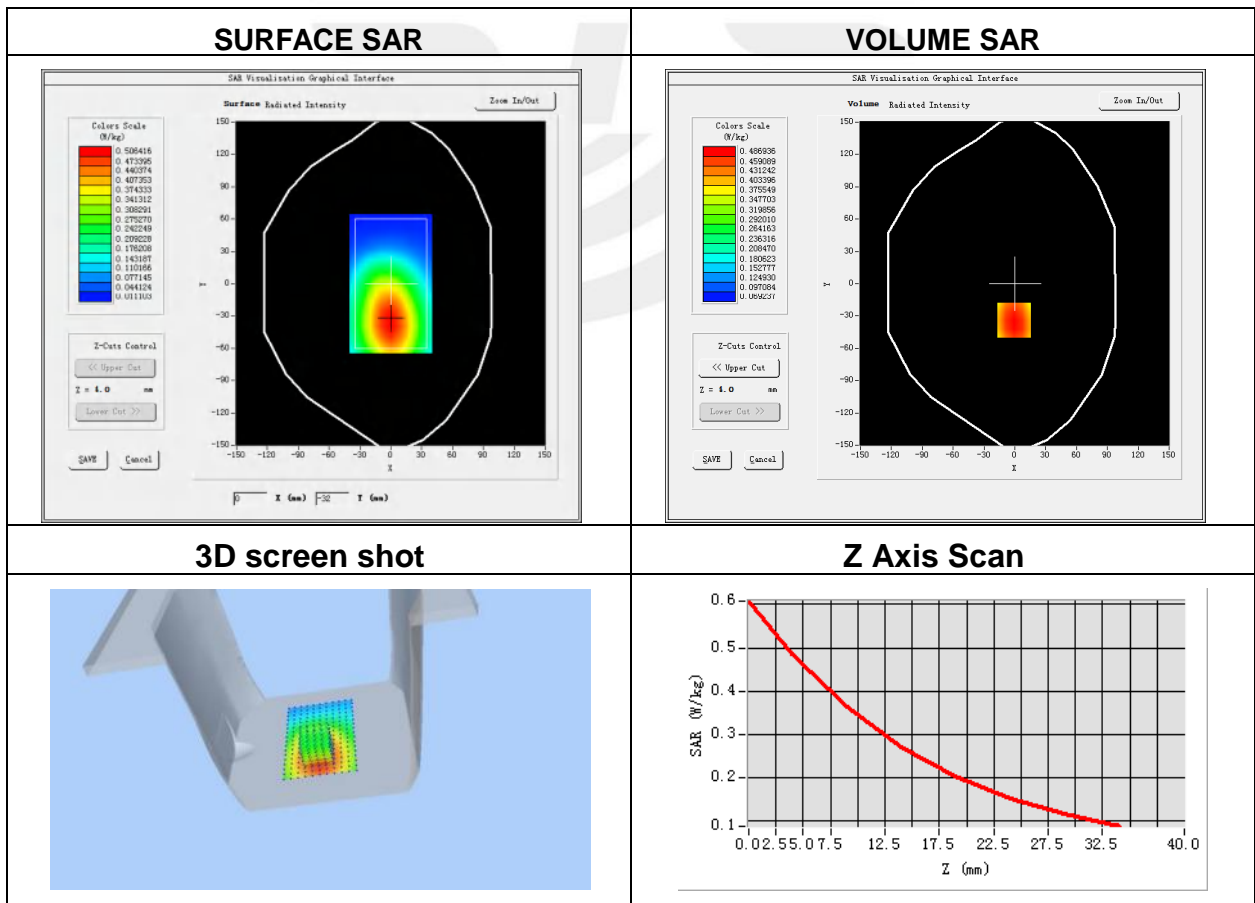
Plot 38: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-10
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Back side with back clip
Band	LTE Band 12(RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	711
Relative permittivity (real part)	42.33
Conductivity (S/m)	0.88

Maximum location: X=-1.00, Y=-34.00

SAR Peak: 0.62 W/kg

SAR 10g (W/Kg)	0.344489
SAR 1g (W/Kg)	0.481001



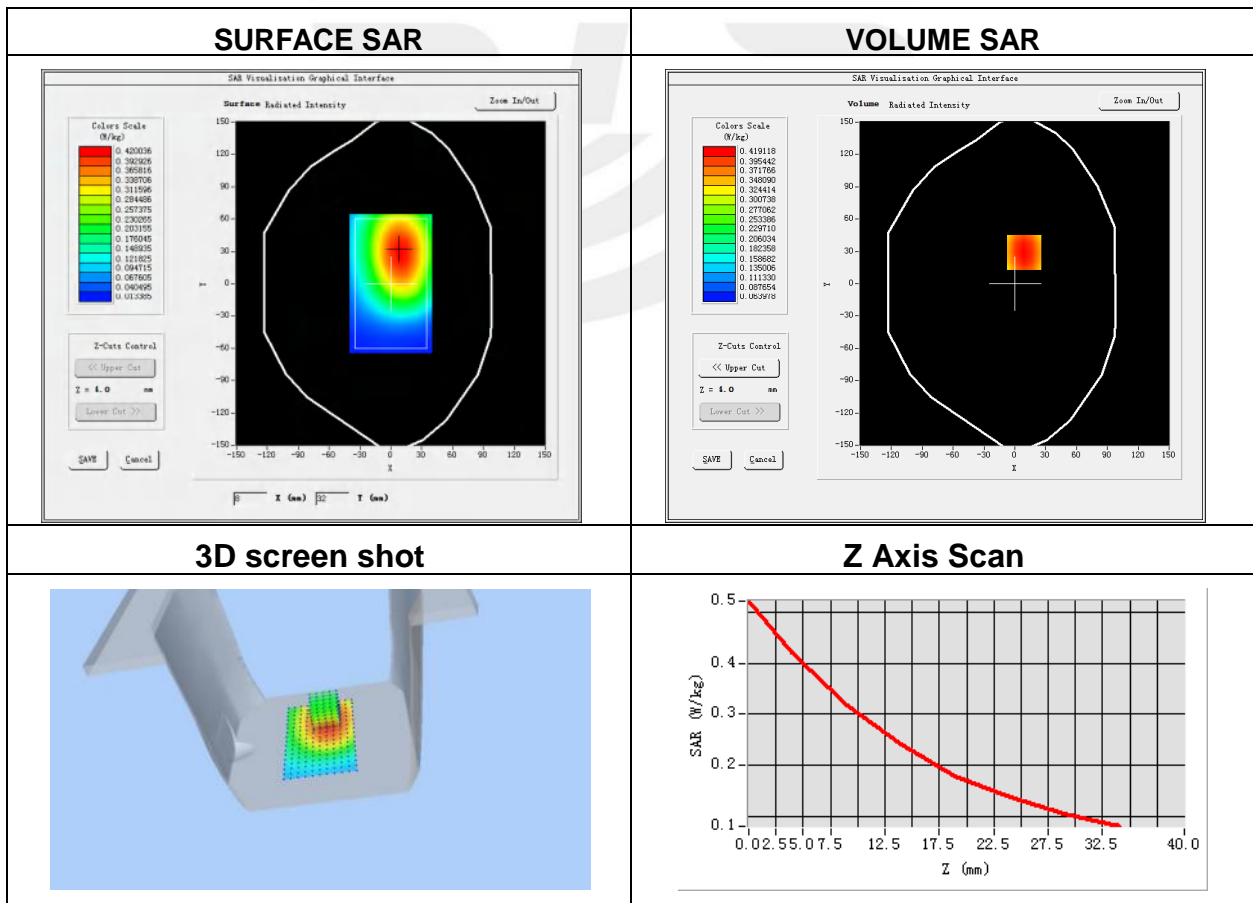
Plot 39: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-10
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 12(RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	711
Relative permittivity (real part)	42.33
Conductivity (S/m)	0.88

Maximum location: X=9.00, Y=29.00

SAR Peak: 0.52 W/kg

SAR 10g (W/Kg)	0.300808
SAR 1g (W/Kg)	0.413800



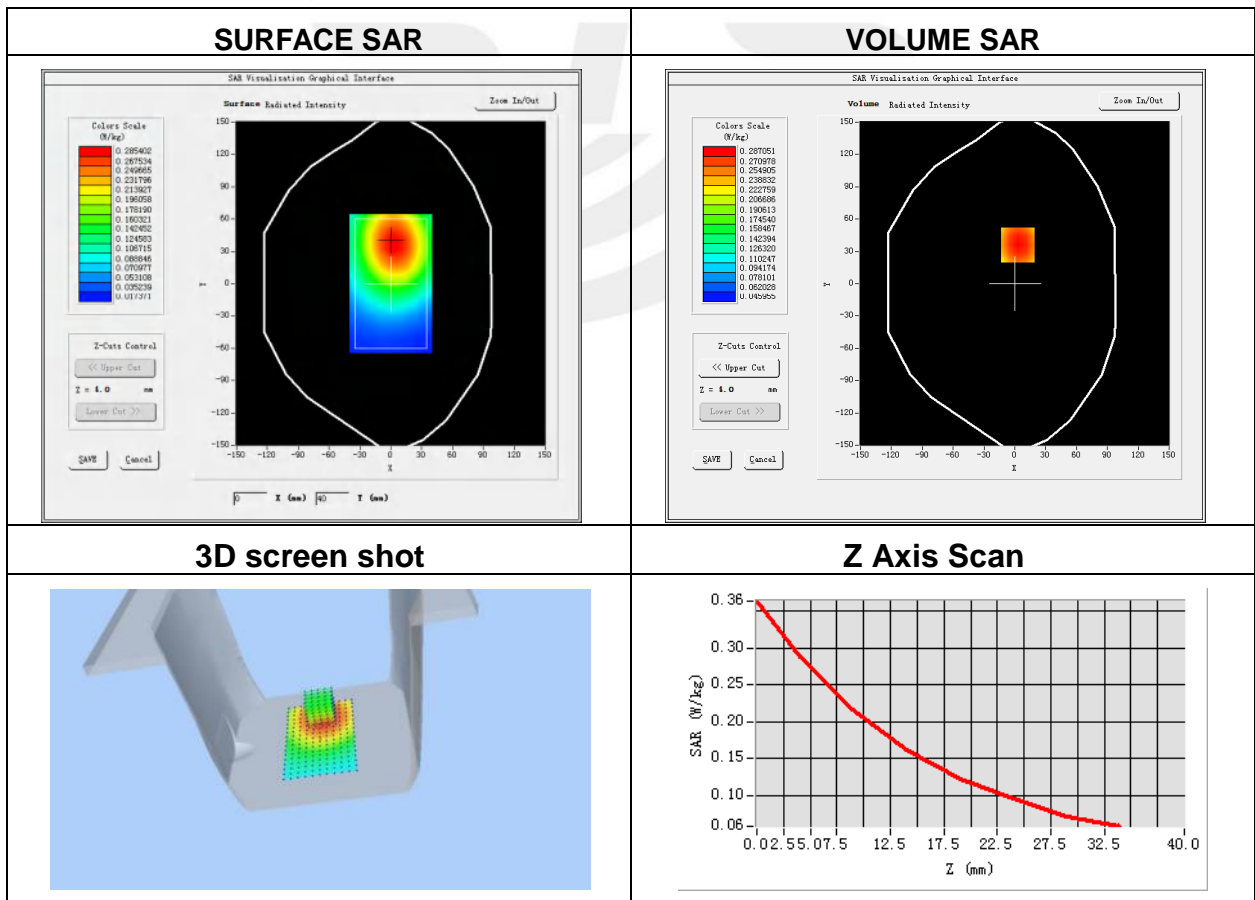
Plot 40: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-10
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Front of face
Band	LTE Band 13(RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	782
Relative permittivity (real part)	42.14
Conductivity (S/m)	0.90

Maximum location: X=3.00, Y=36.00

SAR Peak: 0.36 W/kg

SAR 10g (W/Kg)	0.201790
SAR 1g (W/Kg)	0.278212



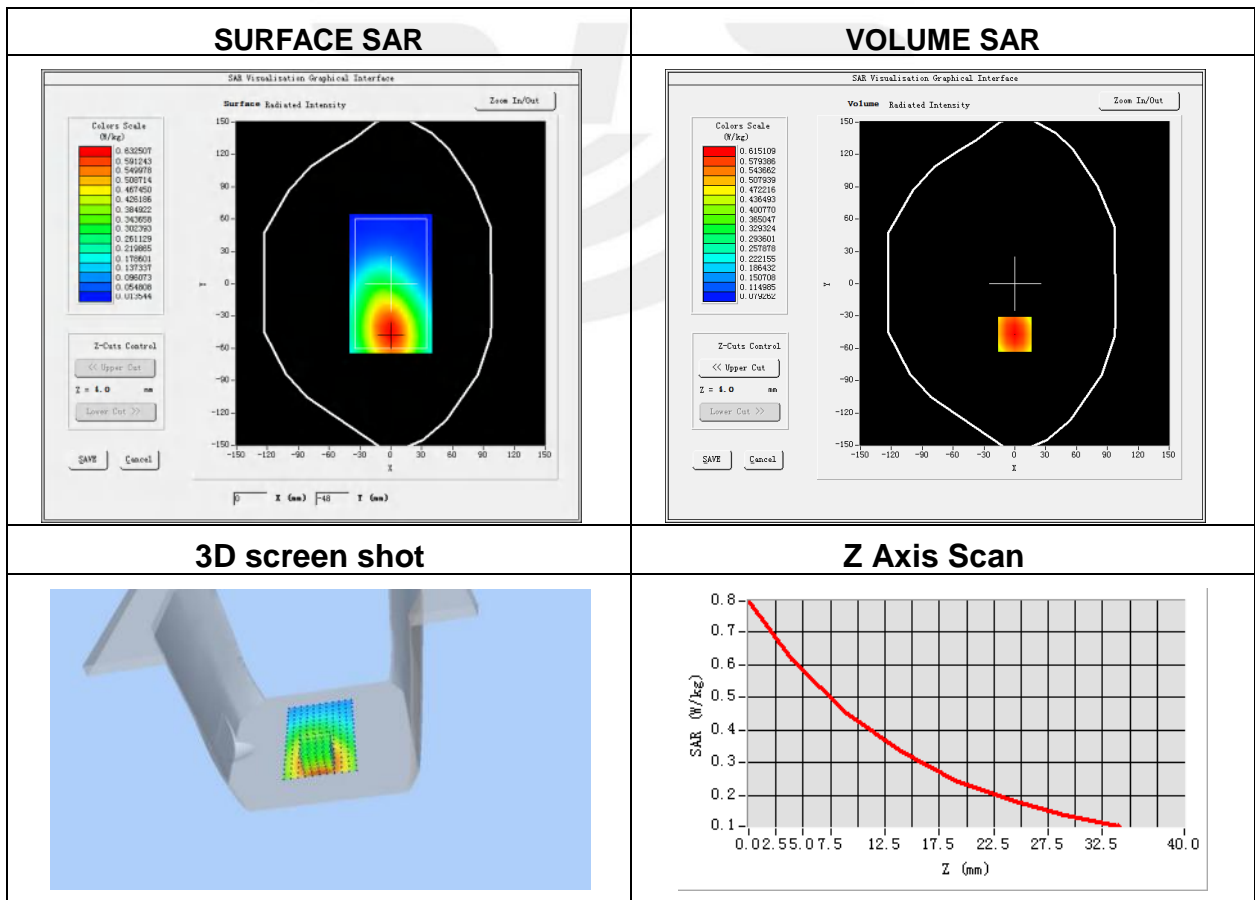
Plot 41: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-10
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Back side with back clip
Band	LTE Band 13(RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	782
Relative permittivity (real part)	42.14
Conductivity (S/m)	0.90

Maximum location: X=0.00, Y=-47.00

SAR Peak: 0.79 W/kg

SAR 10g (W/Kg)	0.419463
SAR 1g (W/Kg)	0.595277



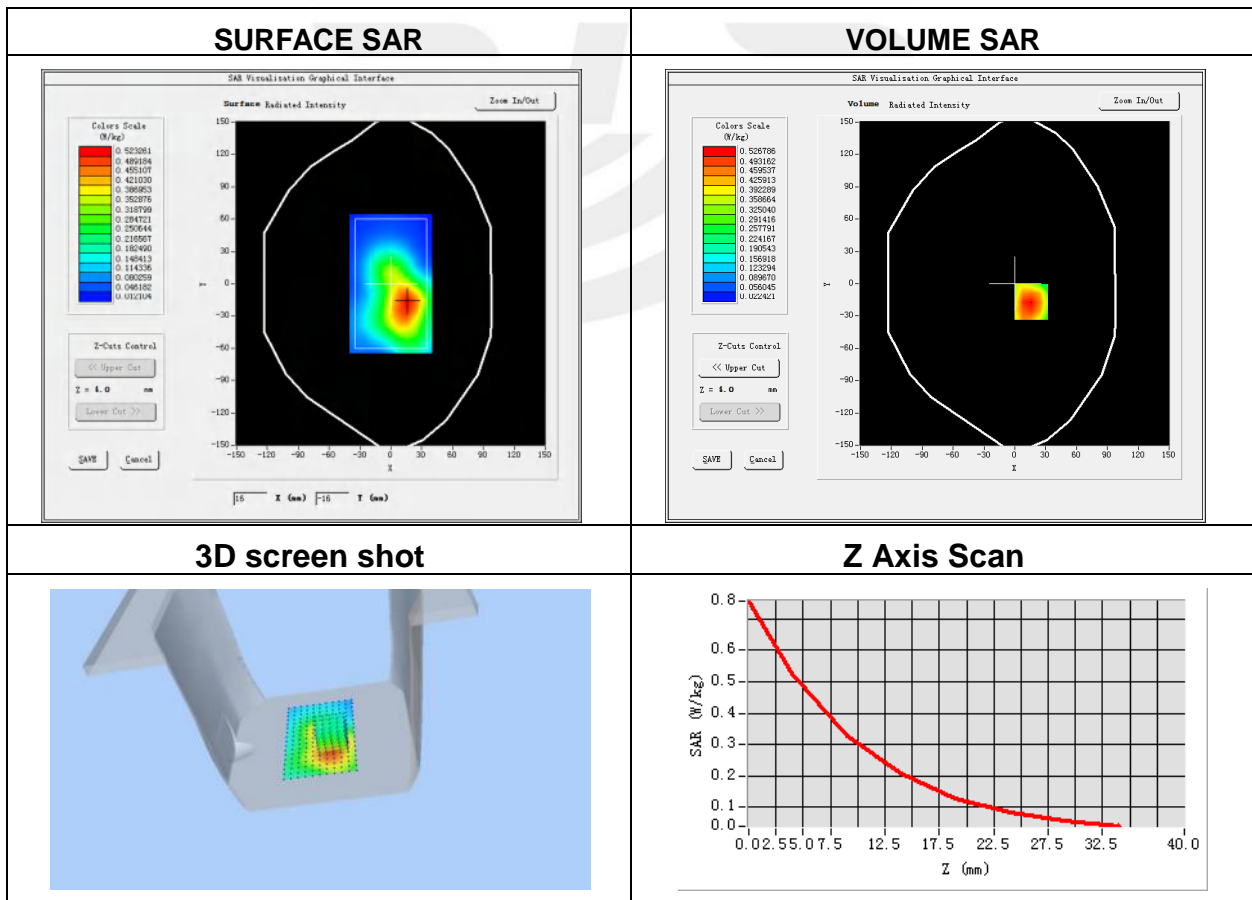
Plot 42: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-10
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 13(RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	782
Relative permittivity (real part)	42.14
Conductivity (S/m)	0.90

Maximum location: X=16.00, Y=-17.00

SAR Peak: 0.79 W/kg

SAR 10g (W/Kg)	0.304130
SAR 1g (W/Kg)	0.508387



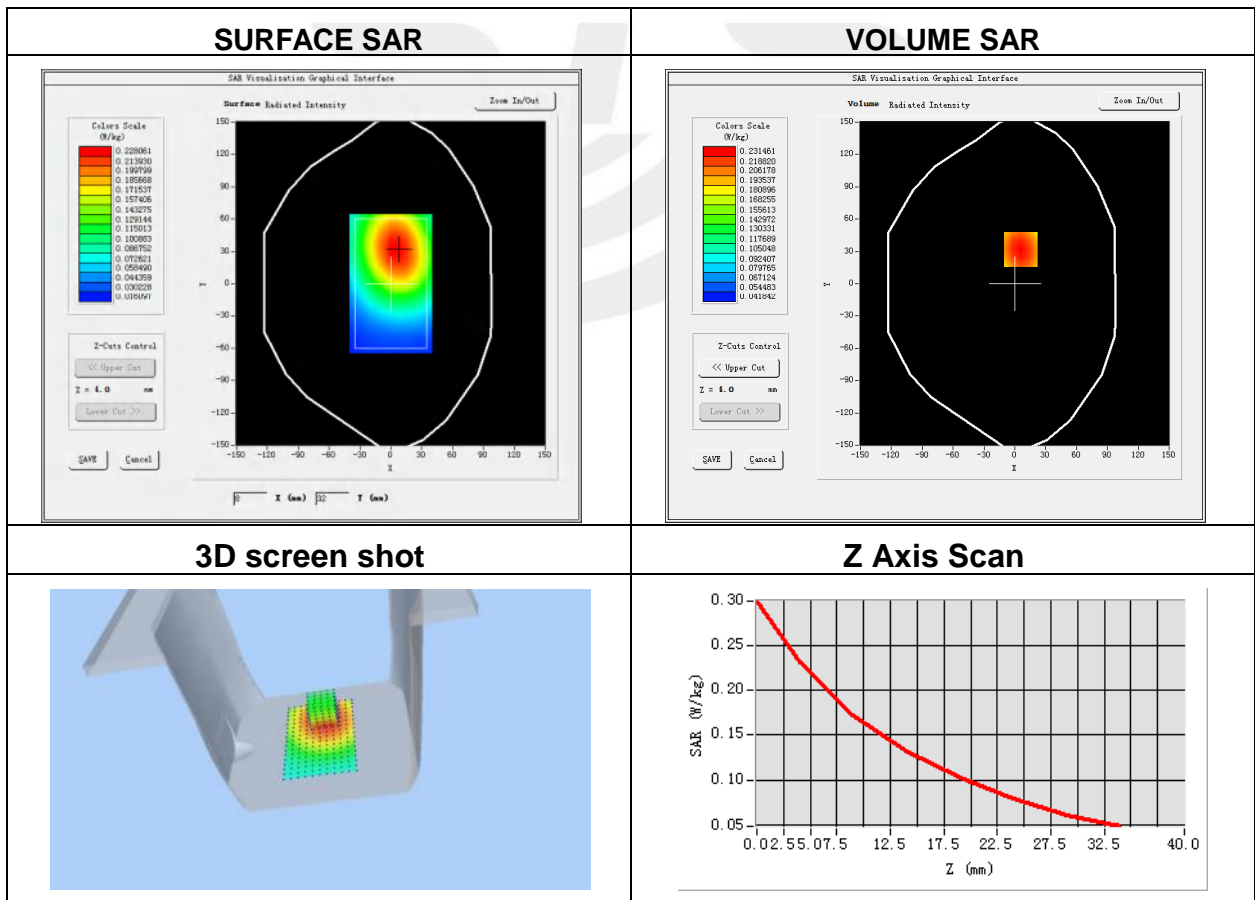
Plot 43: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-10
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Front of face
Band	LTE Band 17(RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	709
Relative permittivity (real part)	42.95
Conductivity (S/m)	0.89

Maximum location: X=6.00, Y=32.00

SAR Peak: 0.30 W/kg

SAR 10g (W/Kg)	0.166307
SAR 1g (W/Kg)	0.229607



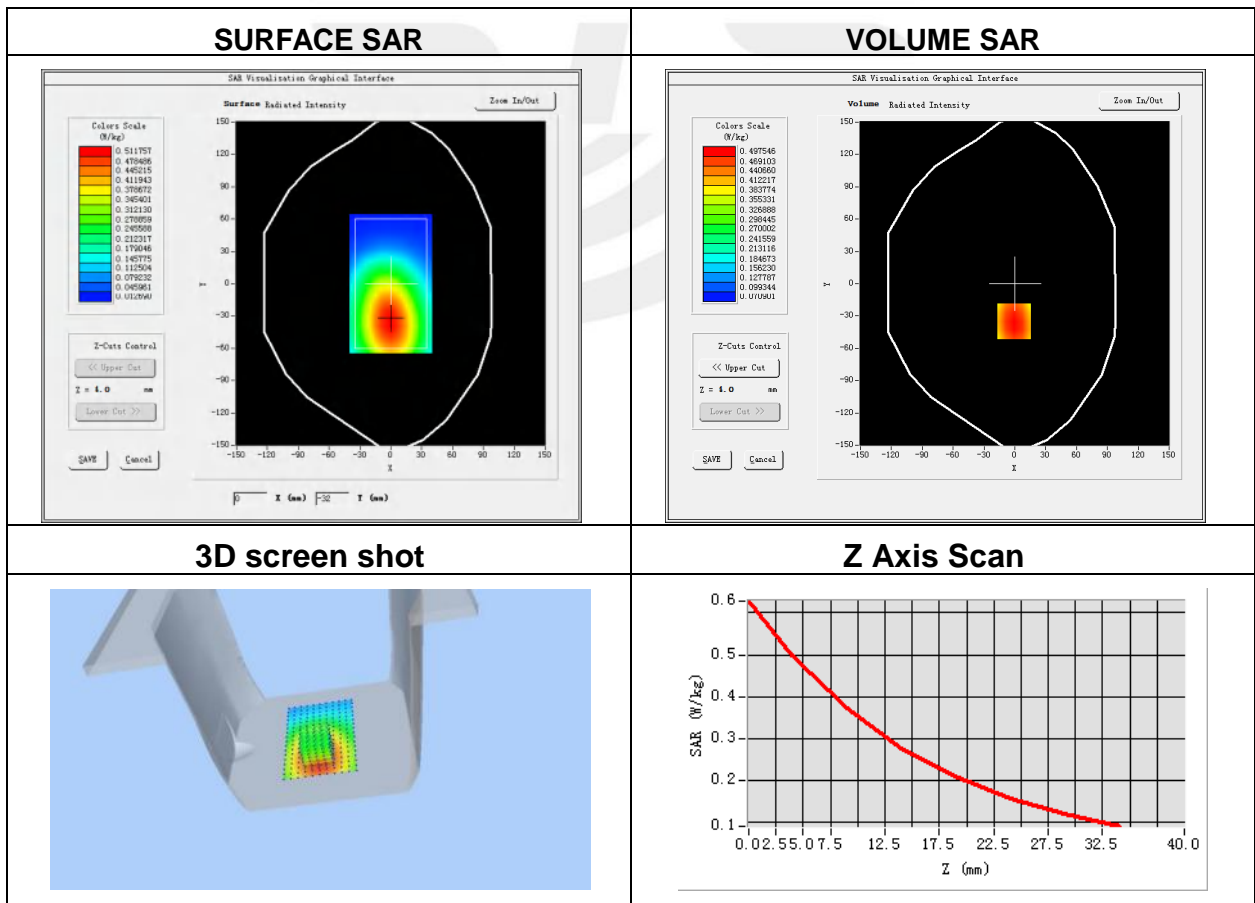
Plot 44: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-10
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Back side with back clip
Band	LTE Band 17(RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	709
Relative permittivity (real part)	42.95
Conductivity (S/m)	0.89

Maximum location: X=-1.00, Y=-35.00

SAR Peak: 0.64 W/kg

SAR 10g (W/Kg)	0.351080
SAR 1g (W/Kg)	0.491651



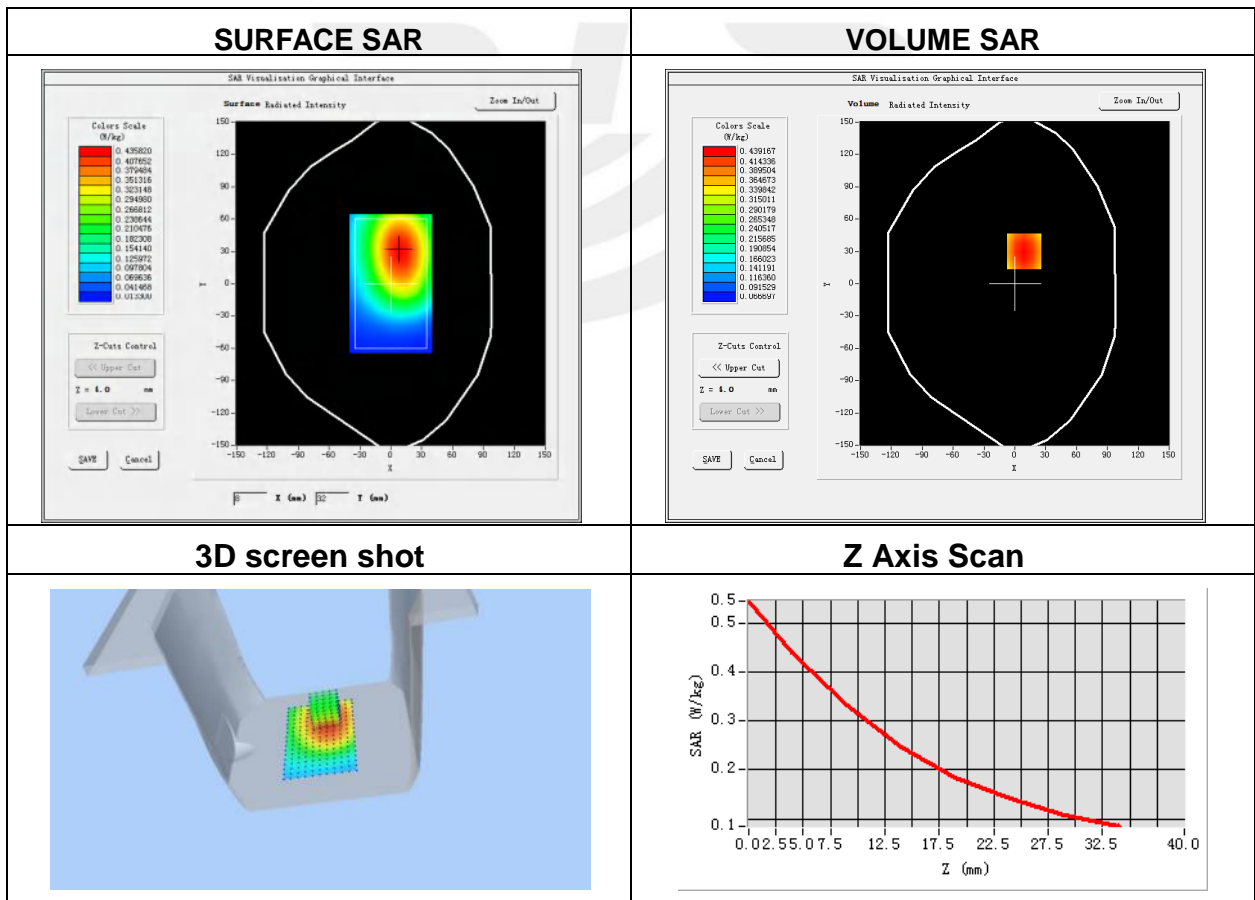
Plot 45: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-10
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 17(RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	709
Relative permittivity (real part)	42.95
Conductivity (S/m)	0.89

Maximum location: X=9.00, Y=30.00

SAR Peak: 0.55 W/kg

SAR 10g (W/Kg)	0.311166
SAR 1g (W/Kg)	0.432355



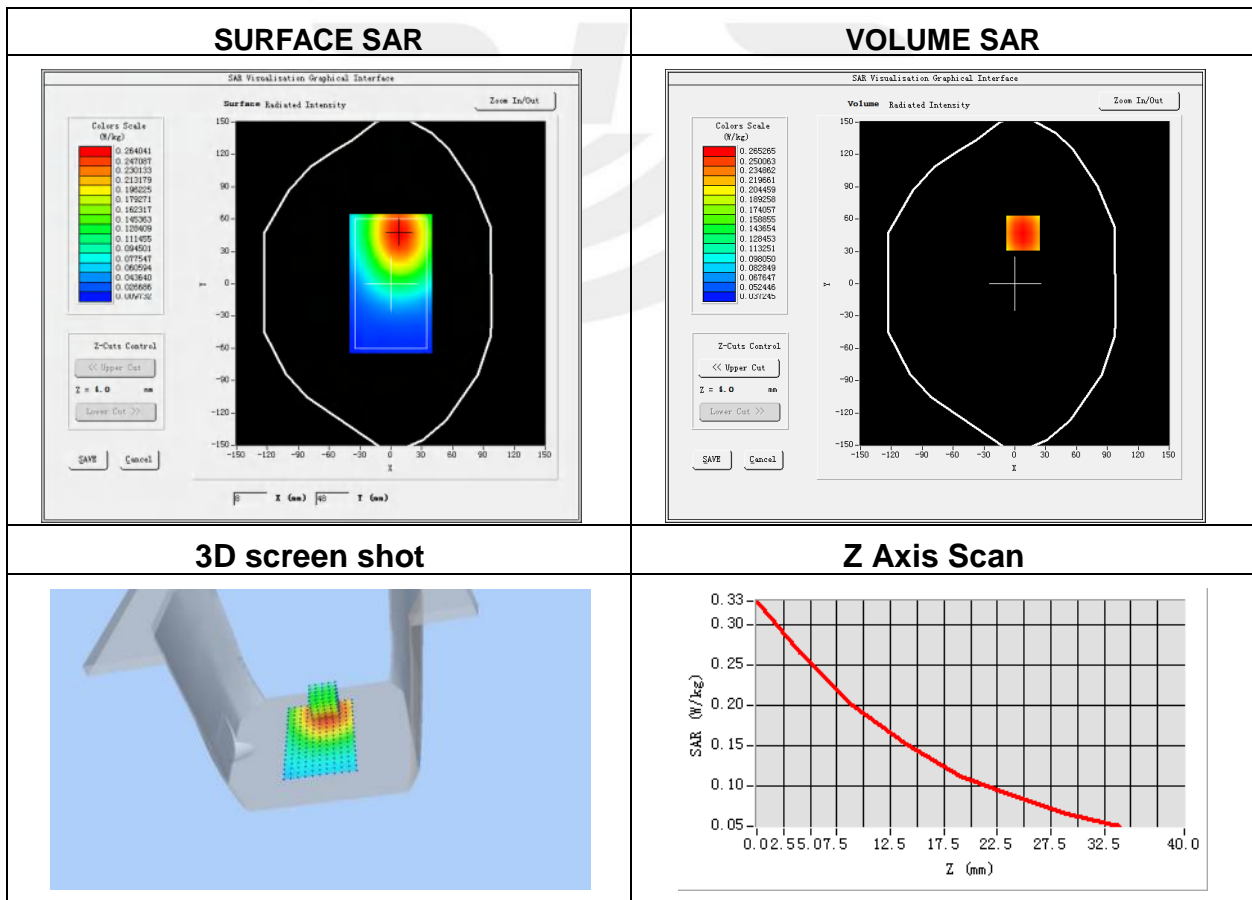
Plot 46: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-13
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Front of face
Band	LTE Band 26(RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	841.5
Relative permittivity (real part)	40.80
Conductivity (S/m)	0.91

Maximum location: X=8.00, Y=47.00

SAR Peak: 0.33 W/kg

SAR 10g (W/Kg)	0.185824
SAR 1g (W/Kg)	0.256460



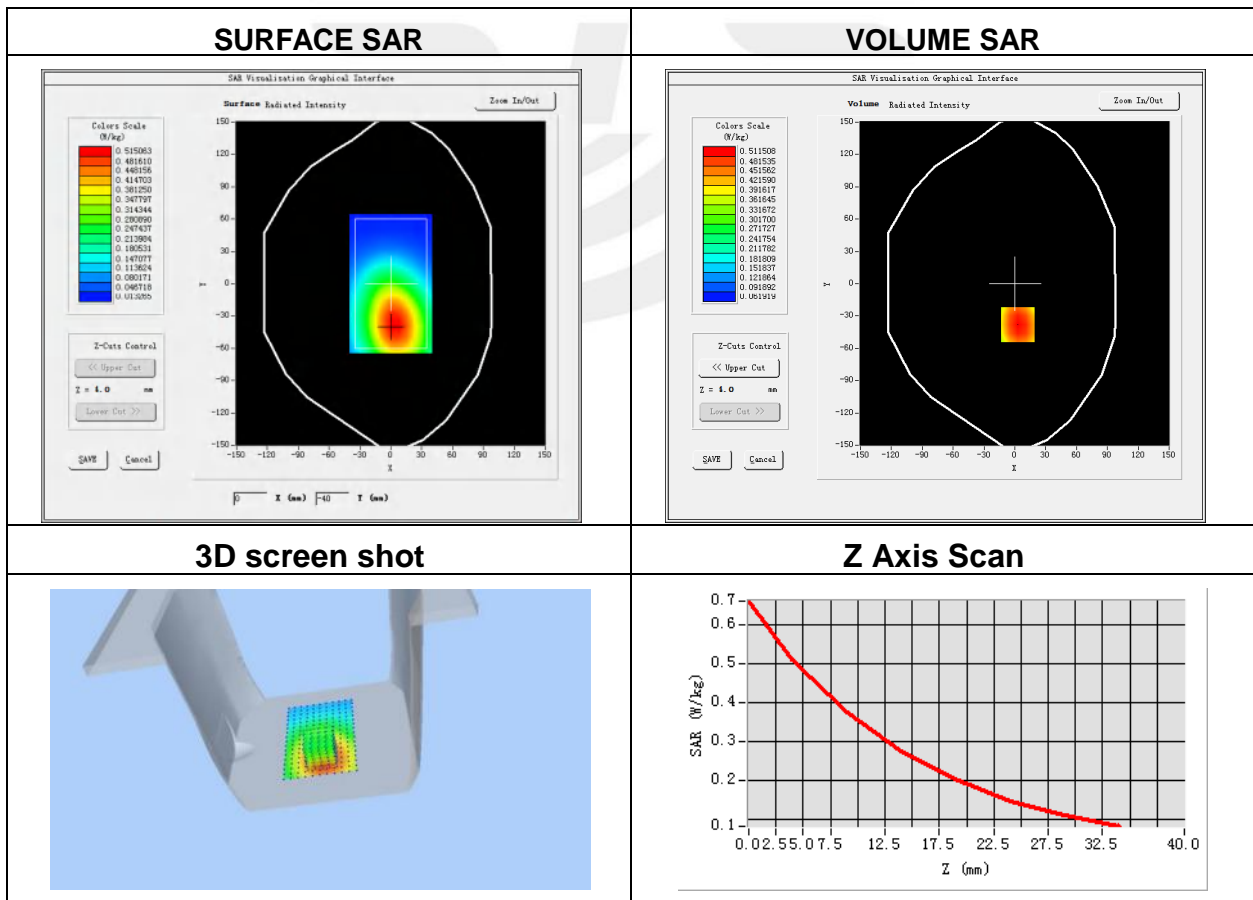
Plot 47: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-13
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Back side with back clip
Band	LTE Band 26(RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	841.5
Relative permittivity (real part)	40.80
Conductivity (S/m)	0.91

Maximum location: X=3.00, Y=-38.00

SAR Peak: 0.66 W/kg

SAR 10g (W/Kg)	0.347332
SAR 1g (W/Kg)	0.494914



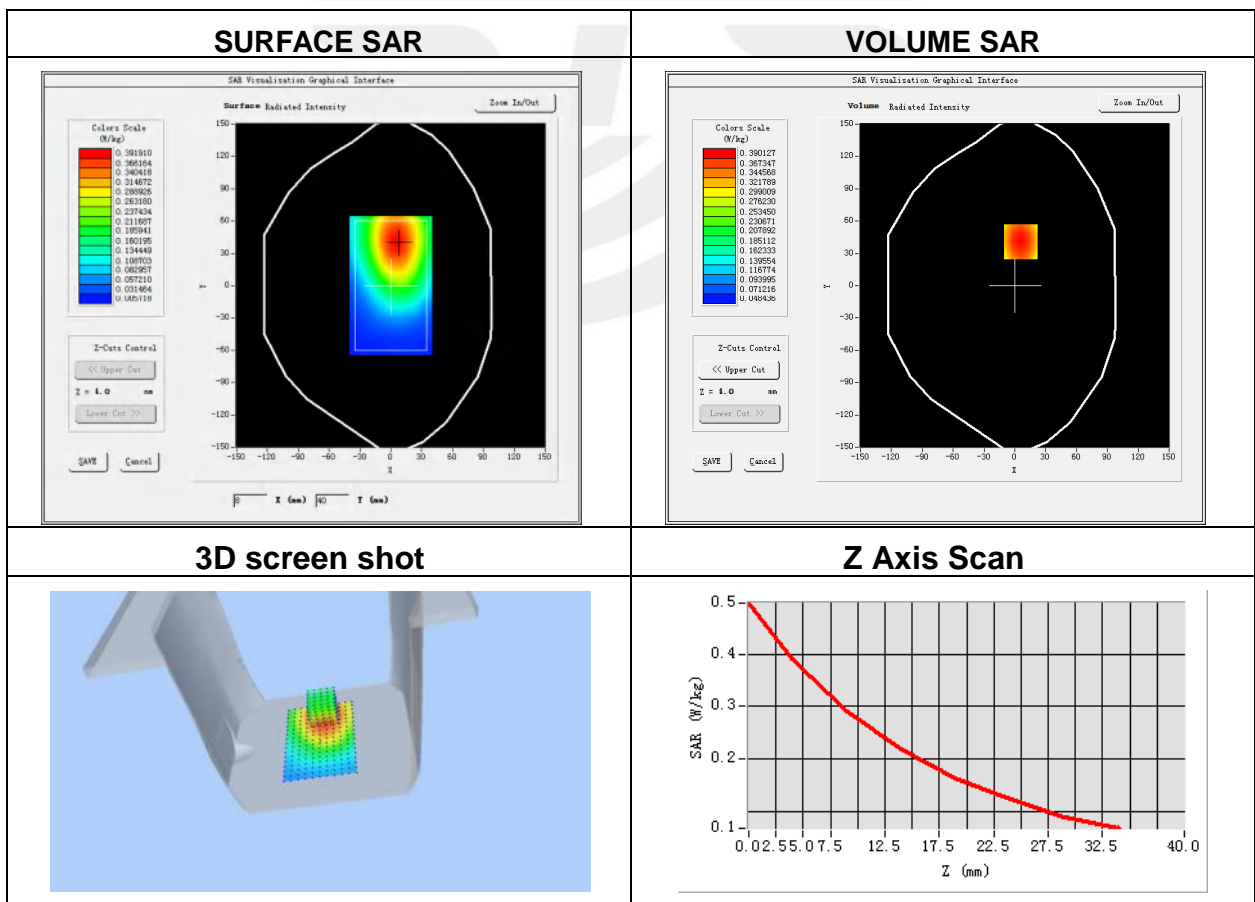
Plot 48: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-13
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 26(RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	841.5
Relative permittivity (real part)	40.80
Conductivity (S/m)	0.91

Maximum location: X=6.00, Y=41.00

SAR Peak: 0.50 W/kg

SAR 10g (W/Kg)	0.270209
SAR 1g (W/Kg)	0.378586



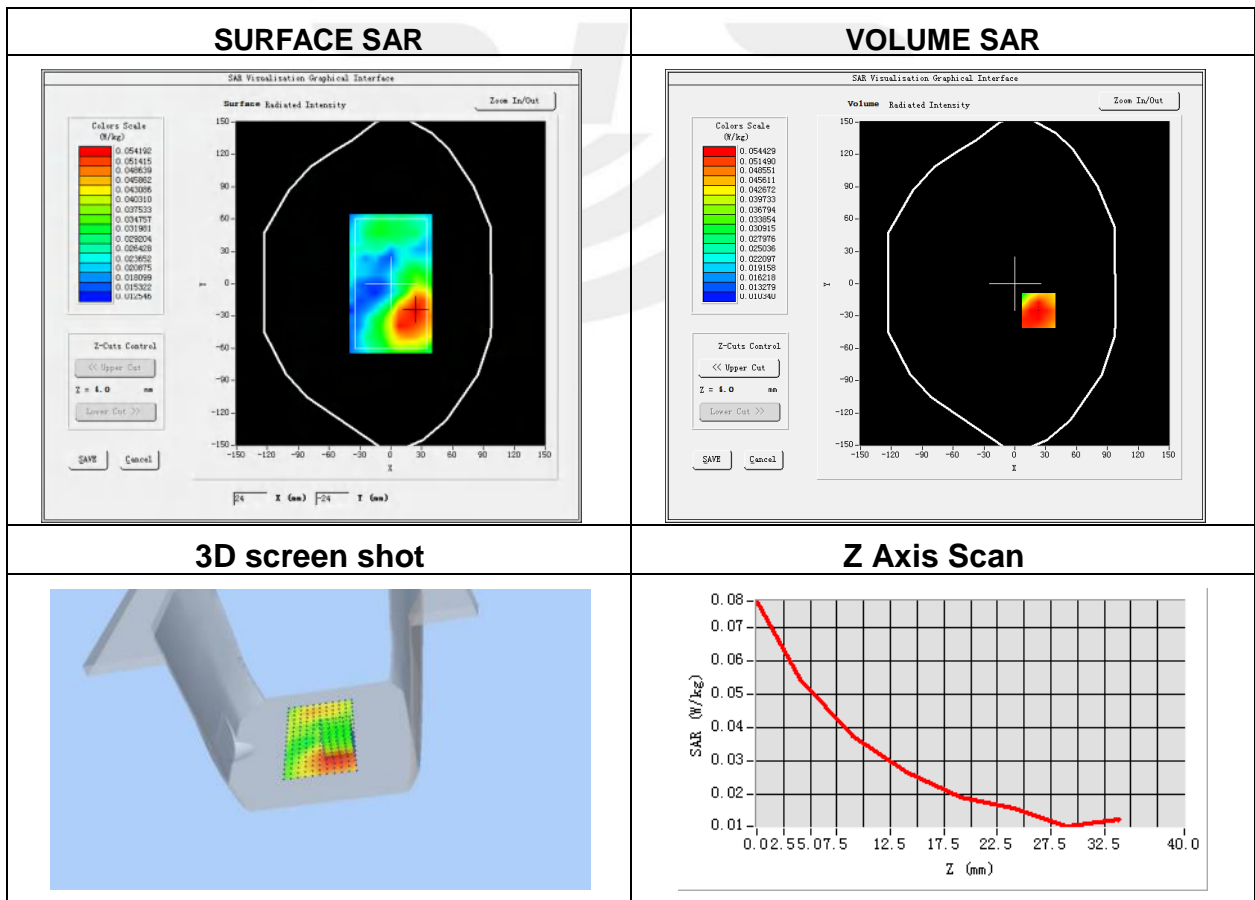
Plot 49: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-20
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Front of face
Band	LTE Band 41(RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2506
Relative permittivity (real part)	39.88
Conductivity (S/m)	1.90

Maximum location: X=23.00, Y=-25.00

SAR Peak: 0.08 W/kg

SAR 10g (W/Kg)	0.036405
SAR 1g (W/Kg)	0.053767



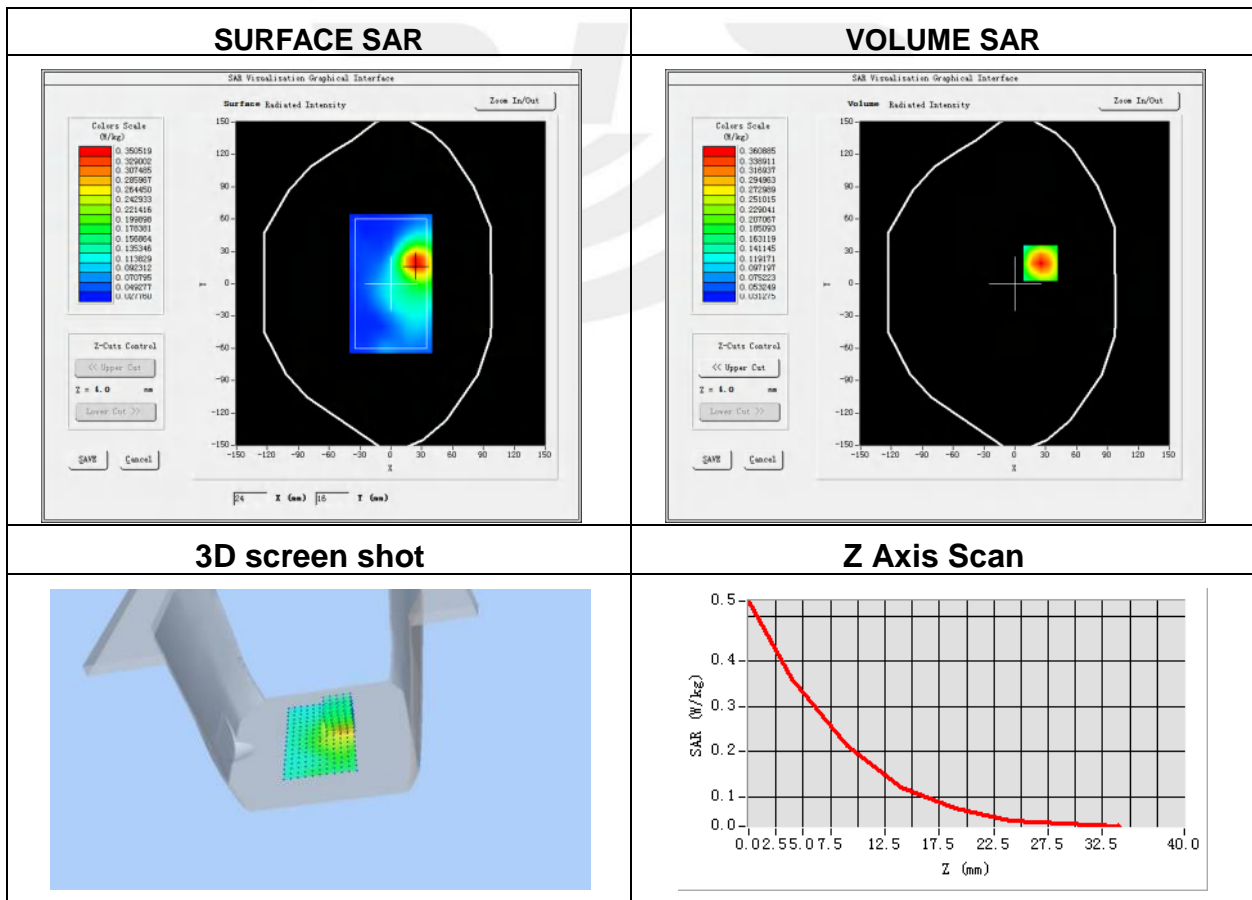
Plot 50: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-20
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Back side with back clip
Band	LTE Band 41(RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2506
Relative permittivity (real part)	39.88
Conductivity (S/m)	1.90

Maximum location: X=25.00, Y=19.00

SAR Peak: 0.53 W/kg

SAR 10g (W/Kg)	0.189967
SAR 1g (W/Kg)	0.338751



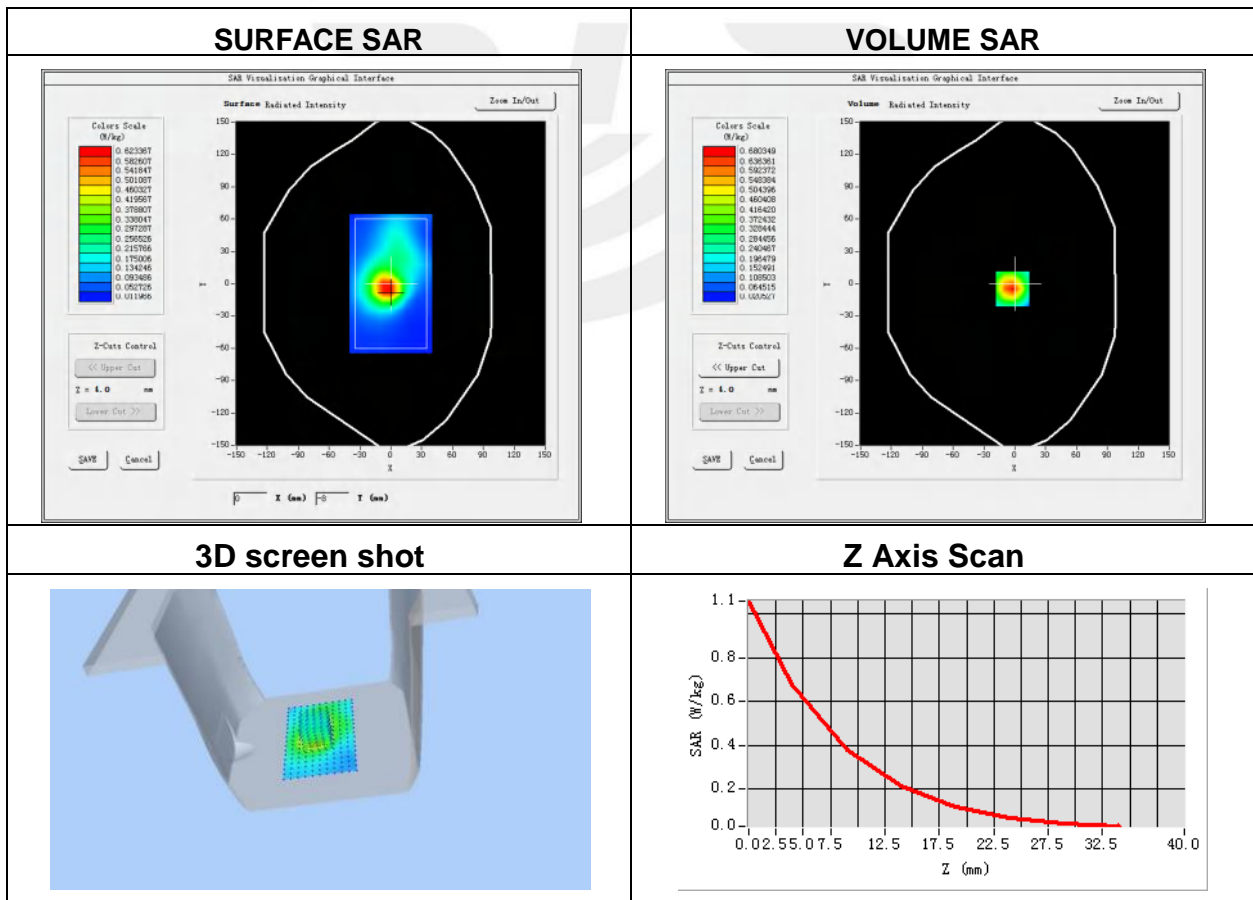
Plot 51: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-20
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 41(RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2506
Relative permittivity (real part)	39.88
Conductivity (S/m)	1.90

Maximum location: X=-2.00, Y=-5.00

SAR Peak: 1.06 W/kg

SAR 10g (W/Kg)	0.321037
SAR 1g (W/Kg)	0.631298



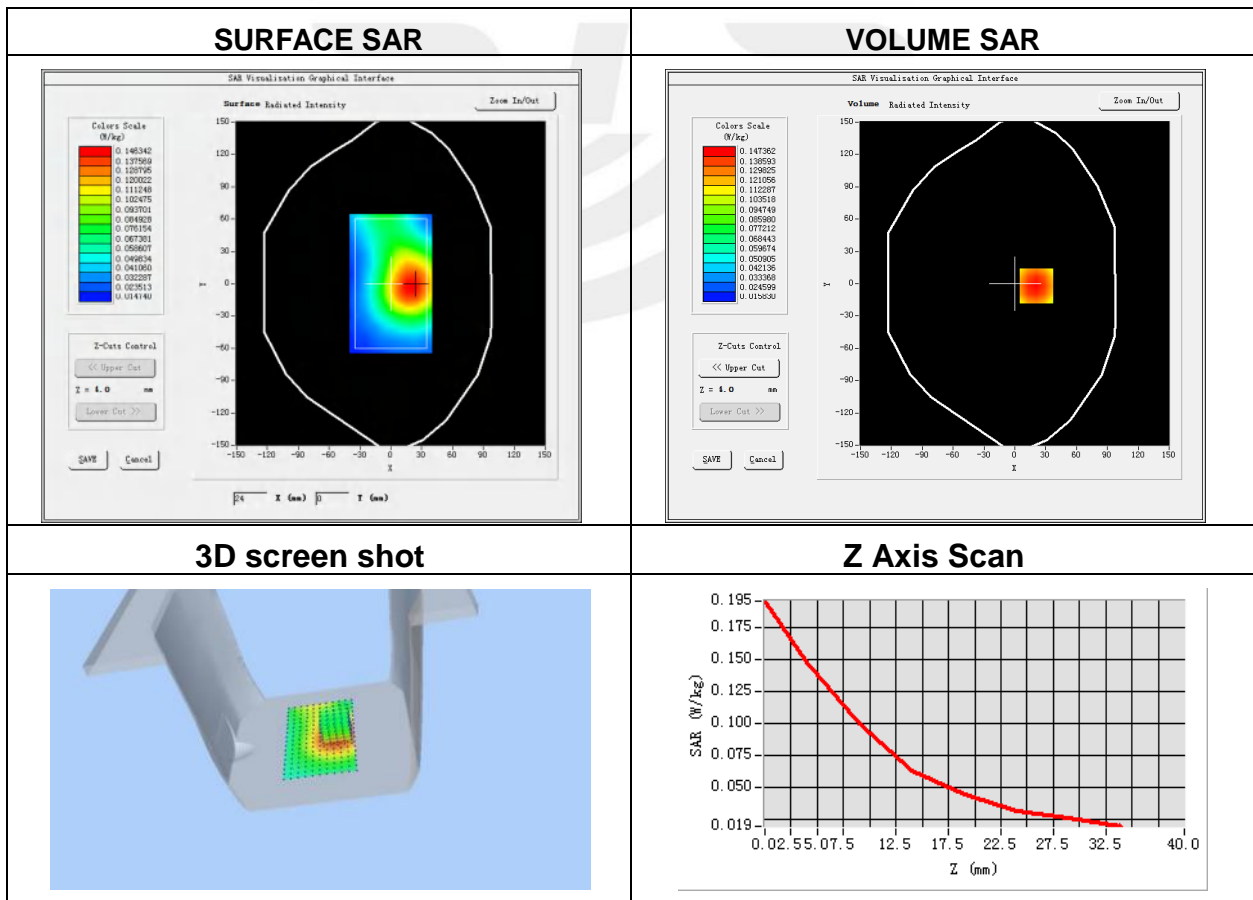
Plot 52: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-14
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Front of face
Band	LTE Band 66(RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1720
Relative permittivity (real part)	41.38
Conductivity (S/m)	1.34

Maximum location: X=21.00, Y=-2.00

SAR Peak: 0.20 W/kg

SAR 10g (W/Kg)	0.092005
SAR 1g (W/Kg)	0.140463



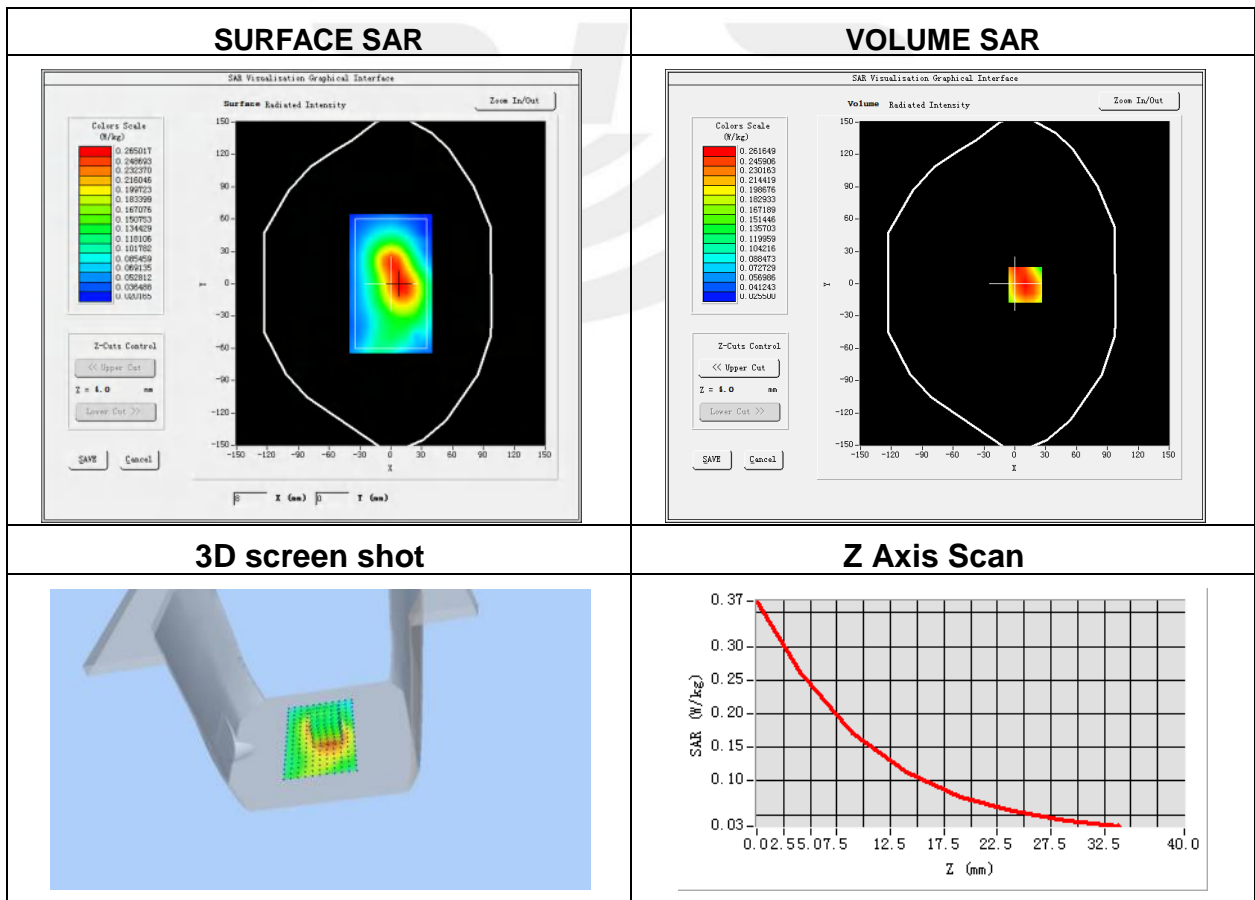
Plot 53: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-20
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Back side with back clip
Band	LTE Band 66(RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1720
Relative permittivity (real part)	41.38
Conductivity (S/m)	1.34

Maximum location: X=10.00, Y=-1.00

SAR Peak: 0.38 W/kg

SAR 10g (W/Kg)	0.160387
SAR 1g (W/Kg)	0.251555



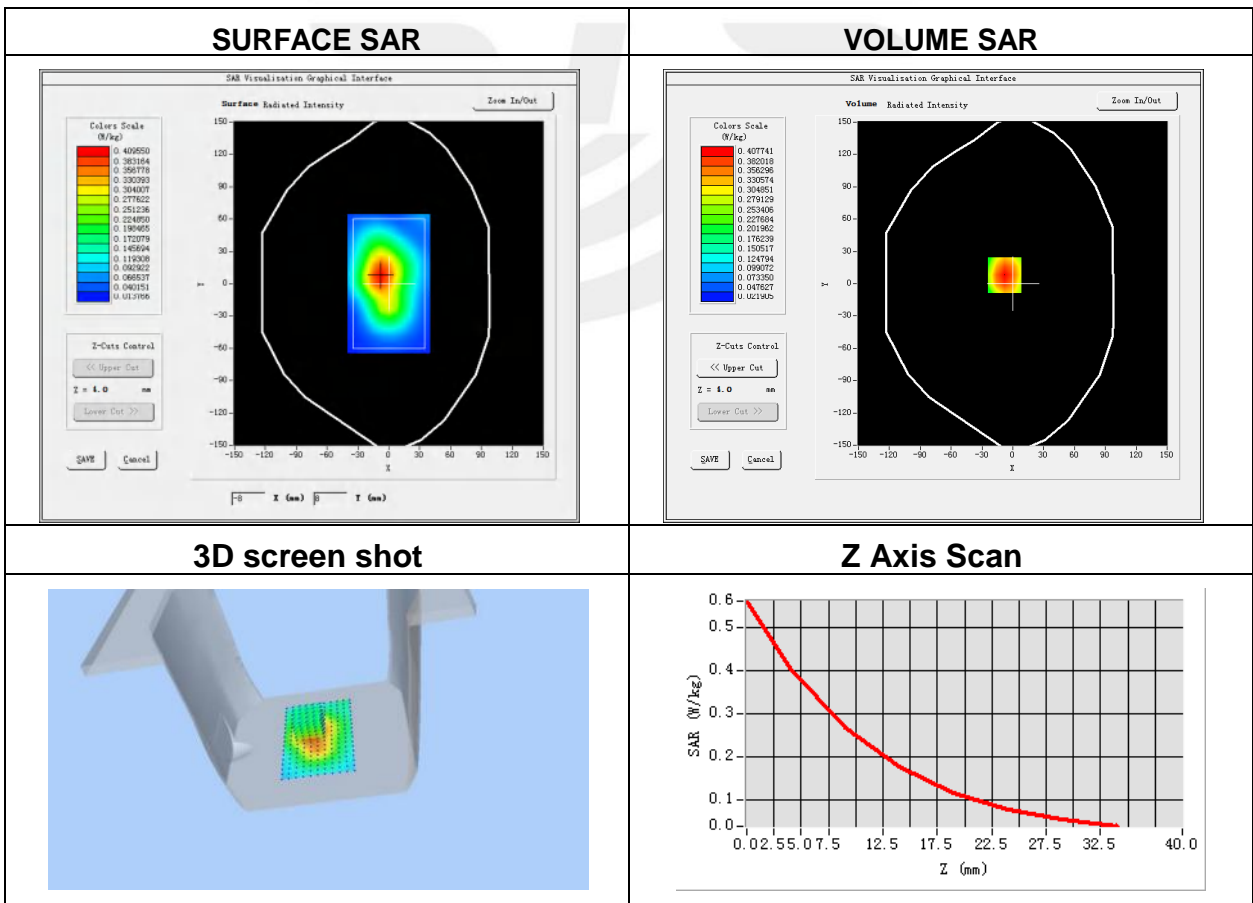
Plot 54: DUT: TELOX SD7; EUT Model: SD7

Test Date	2023-03-20
Probe	SN 07/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm, Complete/ndx=8mm, dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 66(RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1720
Relative permittivity (real part)	41.38
Conductivity (S/m)	1.34

Maximum location: X=-8.00, Y=8.00

SAR Peak: 0.57 W/kg

SAR 10g (W/Kg)	0.243602
SAR 1g (W/Kg)	0.389834





Appendix C. Probe Calibration and Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※END OF THE REPORT※※※※

