



FCC SAR TEST REPORT

Report No: STS1512155H01

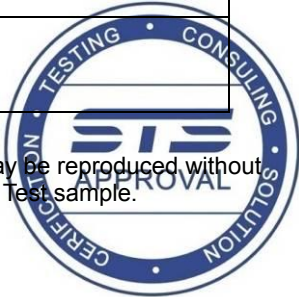
Issued for

LEAGOO Int'l Co., Limited

No.1206-1209, Building B, Huihai Plaza, Heping Road,
Longhua New District, Shenzhen, China

Product Name:	LTE/WCDMA/GSM MOBILE PHONE
Brand Name:	LEAGOO
Model No.:	Elite 4
Series Model:	Elite 4s,S507,S507s
FCC ID:	2ADKW-LEAGOO-ELITE4
Test Standard:	ANSI/IEEE Std. C95.1
	FCC 47 CFR Part 2 (2.1093)
	IEEE 1528: 2013
Max. Reported SAR (1g):	Head:0.712 W/kg
	Body:1.234 W/kg

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Test Report Certification

Applicant's name : LEAGOO Int'l Co., Limited
Address : No.1206-1209, Building B, Huihai Plaza, Heping Road, Longhua
New District, Shenzhen, China
Manufacture's Name : Shenzhen ODX Telecom Equipment Co., Ltd.
Address : 2nd Floor of Building B, HongLianYing Technology Park, No.286 of
SiLi Road, DaBuXiang Community, Longhua New District,
Shenzhen, China

Product description

Product name : LTE/WCDMA/GSM MOBILE PHONE
Trademark : LEAGOO
Model and/or type reference : Elite 4
Series Model : Elite 4s, S507, S507s
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 : 18 Jan. 2016
Date of Issue : 20 Jan. 2016
Test Result : **Pass**

Testing Engineer :

Allen Chen

(Allen Chen)

Technical Manager :

John Zou

(John Zou)

Authorized Signatory :

Bovey Yang

(Bovey Yang)





TABLE OF CONTENTS

1. General Information	4
1.1 EUT Description	4
1.2 Test Environment	6
1.3 Test Factory	6
2. Test Standards And Limits	7
3. SAR Measurement System	8
3.1 Definition Of Specific Absorption Rate (SAR)	8
3.2 SAR System	8
3.2.1 Probe	9
3.2.2 Phantom	10
3.2.3 Device Holder	10
4. Tissue Simulating Liquids	11
4.1 Simulating Liquids Parameter Check	11
5. SAR System Validation	12
5.1 Validation System	12
5.2 Validation Result	12
6. SAR Evaluation Procedures	13
7. EUT Antenna Location Sketch	14
7.1 SAR TEST EXCLUSION CONSIDER TABLE	15
8. EUT Test Position	17
8.1 Define Two Imaginary Lines On The Handset	17
8.2 Hotspot mode exposure position condition	18
9. Uncertainty	19
9.1 Measurement Uncertainty	19
9.2 System validation Uncertainty	21
10. Conducted Power Measurement	23
11. EUT And Test Setup Photo	37
11.1 EUT Photo	37
11.2 Setup Photo	40
12. SAR Result Summary	46
12.1 Head SAR	46
12.2 Body SAR And Hotspot	48
12.3 repeated SAR measurement	50
13. Equipment List	53
Appendix A. System Validation Plots	54
Appendix B. SAR Test Plots	78
Appendix C. Probe Calibration And Dipole Calibration Report	167



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

Equipment	LTE/WCDMA/GSM MOBILE PHONE			
Brand Name	LEAGOO			
Model No.	Elite 4			
Series Model	Elite 4s,S507,S507s			
FCC ID	2ADKW-LEAGOO-ELITE4			
Model Difference	Only different in model name			
Adapter	Input: AC100-240V, 0.3A, 50/60 Hz Output: DC 5V, 1500mA			
Battery	Rated Voltage: 3.8V Charge Limit: 4.35V Capacity: 2400mAh			
Hardware Version	V1.2			
Software Version	X5602_OTD_AMERICA_E4_V0.0.5_S1217			
Frequency Range	GSM 850:824.2 ~ 848.8 MHz PCS1900:1850.2 ~ 1909.8 MHz WCDMA II:1852.4~1907.6 MHz WCDMA V:826.4~846.6 MHz LTE Band 2:1850.7~1909.3MHz LTE Band 4:1710.7~1754.3MHz LTE Band 5:824.7~848.3MHz		LTE Band 7:2502.5~2567.5MHz LTE Band 17:706.5~713.5MHz WLAN 802.11b/g/n(HT20):2412~2462MHz 802.11b/g/n(HT40):2422~2452MHz Bluetooth:2402~2480 MHz	
Transmit Power(Average):	GSM 850: 21.44dBm GSM 1900: 28.82dBm WCDMA II: 21.80dBm WCDMA V: 22.43dBm LTE Band 2: 23.04 LTE Band 4:22.67 LTE Band 5:23.65		LTE Band 7: 22.05 LTE Band 17: 22.49 802.11b: 12.97dBm 802.11g: 9.90dBm 802.11 n(HT20): 9.48dBm 802.11 n(HT40): 7.86dBm Bluetooth: -0.525dBm	
Max. Reported SAR(1g):	Band	Mode	Head(W/kg)	Body-worn(W/kg)
	PCE	GSM 850	0.217	0.456
	PCE	GSM 1900	0.282	0.500
	PCE	WCDMA Band II	0.467	0.446
	PCE	WCDMA Band V	0.211	0.243
	PCE	LTE Band 2	0.712	0.485
	PCE	LTE Band 4	0.257	0.415
	PCE	LTE Band 5	0.182	0.210
	PCE	LTE Band 7	0.068	1.234
	PCE	LTE Band 17	0.389	0.531
	DTS	WIFI	0.245	0.162
	DSS	Bluetooth ^{Note}	0.047	0.024
1-g Sum SAR(W/kg)			0.957	1.396
FCC Equipment Class	Licensed Portable Transmitter Held to Ear (PCE) Part 15 Spread Spectrum Transmitter (DSS) Digital Transmission System (DTS)			



Operating Mode:	GSM: GSM Voice, GPRS, EGPRS Class 12; WCDMA: RMC, HSDPA, HSUPA Release 6; WLAN: 802.11 b/g/n; Bluetooth: V4.0 + EDR (GFSK + $\pi/4$ DQPSK+8DPSK)
Antenna Specification:	GSM/WCDMA: PIFA Antenna BT/WIFI: PIFA Antenna
Hotspot Mode:	Support
DTM Mode:	Not Support

Note : Bluetooth SAR was estimated.





1.2 Test Environment

Ambient conditions in the SAR laboratory:

Items	Required	Actual
Temperature (°C)	18-25	22~23
Humidity (%RH)	30-70	55~65

1.3 Test Factory

Shenzhen STS Test Services Co., Ltd.

Add. : 1/F, Building B, Zhuoke Science Park, No.190, Chongqing Road, Fuyong,
Bao'an District, Shenzhen, Guangdong, China

CNAS Registration No.: L7649

FCC Registration No.: 842334;

IC Registration No.: 12108A-1



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 D01 v06	Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies
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 v02r04	SAR for LTE Devices
9	FCC KDB 941225 D06 v02r01	Hotspot Mode SAR
10	FCC KDB 248227 D01 v02r02	SAR Considerations for 802.11 Devices
11	FCC KDB 648474 D04 v01r03	SAR evaluation consideration for wireless handsets

This device belongs to portable device category because its radiating structure is allowed to be used within 20 centimeters of the body of the user. According to EN 50360 and 1999/519/EC the limit for General Population/Uncontrolled exposure should be applied for this device, it is 2.0 W/kg as averaged over any 10 gram of tissue.

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

Whole-Body Partial-Body Hands, Wrists, Feet and Ankles

0.4 8.0 20.0

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

Whole-Body Partial-Body Hands, Wrists, Feet and Ankles

0.08 1.6 4.0

NOTE: Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 10 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:

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

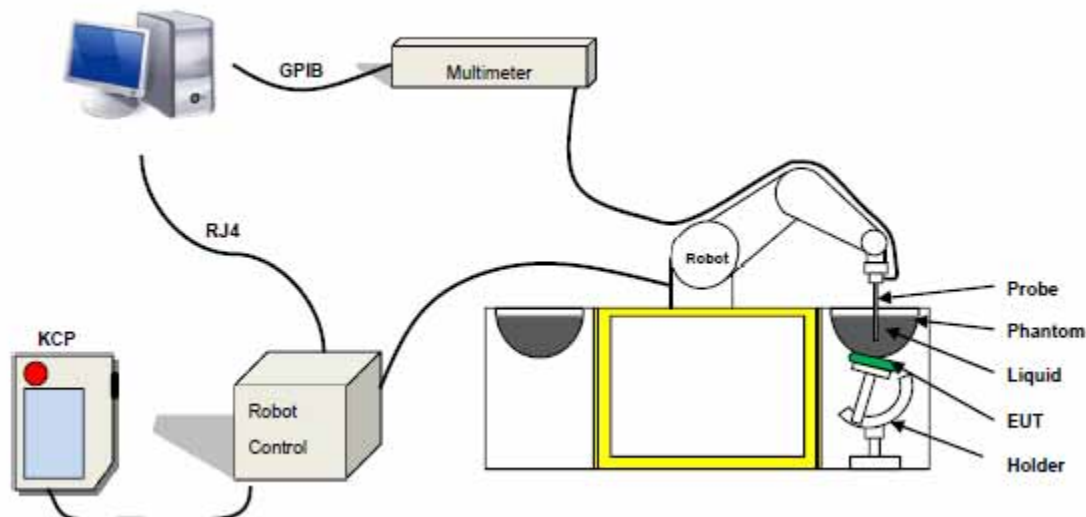
SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be related to the electrical field in the tissue by

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

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

SATIMO 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 OpenSAR 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 17/14 EP221 with following specifications is used

- Dynamic range: 0.01-100 W/kg
 - Tip Diameter :5 mm
 - Distance between probe tip and sensor center: 2.7mm
 - Distance between sensor center and the inner phantom surface: 4 mm (repeatability better than +/- 1mm)
 - Probe linearity: < 0.25 dB
 - Axial Isotropy: < 0.25 dB
 - Spherical Isotropy: < 0.25 dB
 - Calibration range: 450MHz to 2600MHz for head & body simulating liquid.
- Angle between probe axis (evaluation axis) and surface normal line: less than 30°



Figure 1 – Satimo 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.

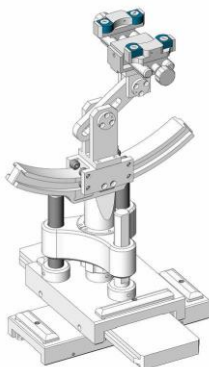
SN 32/14 SAM115



SN 32/14 SAM116



3.2.3 Device Holder



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

4. Tissue Simulating Liquids

4.1 Simulating Liquids Parameter Check

The 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.

LIQUID MEASUREMENT RESULTS

Date: January.18, 2016

Ambient condition: Temperature 22.0°C Relative humidity: 49%

Head Simulating Liquid		Parameters	Target	Measured	Deviation[%]	Limited[%]
Frequency	Temp. [°C]					
750 MHz	22.30	Permittivity:	41.9	42.44	1.29	±5
		Conductivity:	0.89	0.90	1.12	± 5
835 MHz	22.30	Permittivity:	41.50	40.06	-3.46	±5
		Conductivity:	0.90	0.87	-3.33	± 5
1800 MHz	22.30	Permittivity:	40.10	39.91	-0.48	±5
		Conductivity:	1.37	1.40	2.19	± 5
1900 MHz	22.30	Permittivity:	40.00	39.60	-1.01	± 5
		Conductivity:	1.40	1.38	-1.43	± 5
2450 MHz	22.30	Permittivity:	39.2	40.16	2.45	± 5
		Conductivity:	1.80	1.86	3.33	± 5
2600 MHz	22.30	Permittivity:	39.0	40.01	2.59	± 5
		Conductivity:	1.96	1.88	-4.08	± 5

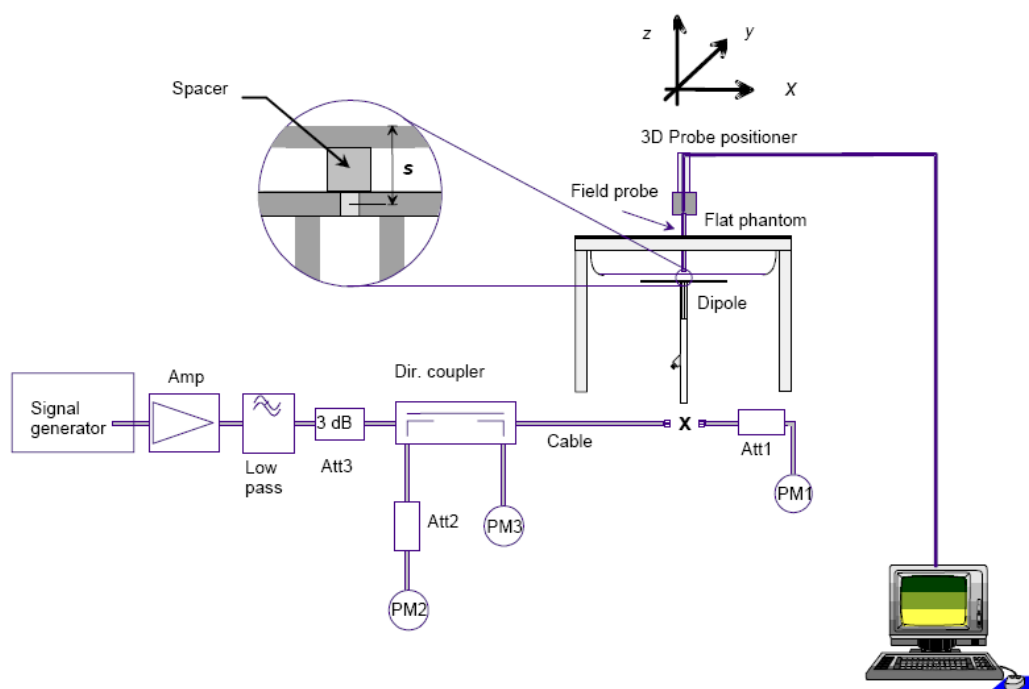
Body Simulating Liquid		Parameters	Target	Measured	Deviation[%]	Limited[%]
Frequency	Temp. [°C]					
750 MHz	22.30	Permittivity:	55.50	55.10	-0.72	± 5
		Conductivity:	0.96	0.94	-2.08	± 5
835 MHz	22.30	Permittivity:	55.20	55.34	0.25	± 5
		Conductivity:	0.97	0.97	0.00	± 5
1800 MHz	22.30	Permittivity:	53.40	53.97	1.07	± 5
		Conductivity:	1.49	1.48	-0.67	± 5
1900 MHz	22.30	Permittivity:	53.30	54.31	1.89	± 5
		Conductivity:	1.52	1.55	1.97	± 5
2450 MHz	22.30	Permittivity:	52.7	55.10	4.55	± 5
		Conductivity:	1.95	1.90	-2.56	± 5
2600 MHz	22.30	Permittivity:	52.5	52.67	0.32	± 5
		Conductivity:	2.16	2.17	0.46	± 5

5. SAR System Validation

5.1 Validation System

Each SATIMO system is equipped with one or more system validation kits. These units, together with the predefined measurement procedures within the SATIMO 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 SATIMO, the validation data should be within its specification of 10 %.

Ambient condition: Temperature 22.7°C **Relative humidity:** 49%

Freq.(MHz)	Power(mW)	Tested Value (W/Kg)	Normalized SAR (W/kg)	Target(W/Kg)	Tolerance(%)	Date
750 Head	100	0.837	8.37	8.49	-1.41	2016-01-18
750 Body	100	0.859	8.59	8.49	1.18	2016-01-18
835 Head	100	0.937	9.37	9.56	-1.99	2016-01-18
835 Body	100	0.947	9.47	9.56	-0.94	2016-01-18
1800 Head	100	3.770	37.70	38.40	-1.82	2016-01-18
1800 Body	100	3.750	37.50	38.40	-2.34	2016-01-18
1900 Head	100	3.884	38.84	39.7	-2.17	2016-01-18
1900 Body	100	4.123	41.23	39.7	3.85	2016-01-18
2450 Head	100	5.181	51.81	52.4	-1.13	2016-01-18
2450 Body	100	5.247	52.47	52.4	0.13	2016-01-18
2600 Head	100	5.494	54.94	55.30	-0.65	2016-01-18
2600 Body	100	5.562	55.62	55.30	0.58	2016-01-18

Note: The tolerance limit of System validation $\pm 10\%$.

6. SAR Evaluation Procedures

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

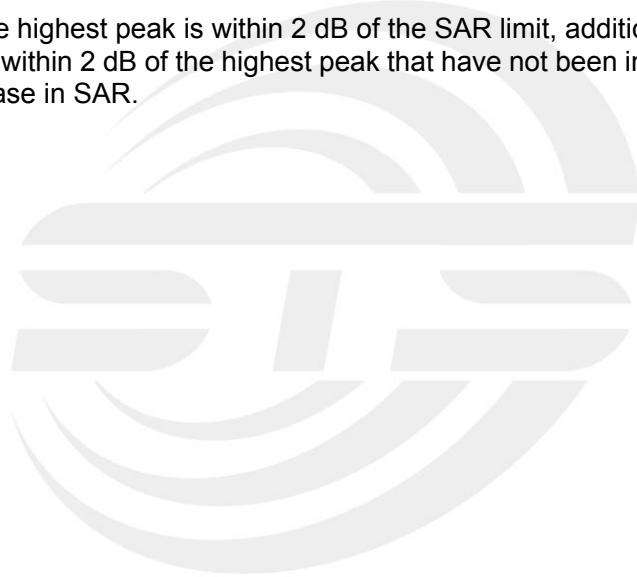
The following steps are used for each test position

- 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

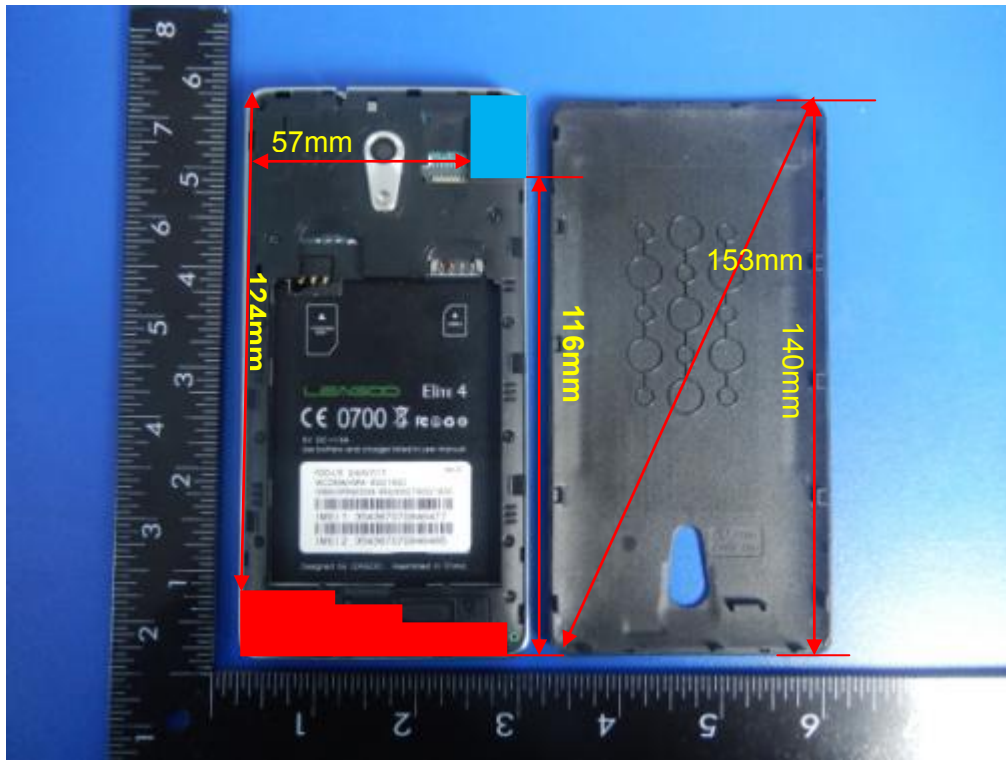
First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan 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 D01v01r04 quoted below.

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



7. EUT Antenna Location Sketch

It is a LTE/WCDMA/GSM MOBILE PHONE, support GSM/WCDMA/LTE mode.



- WWAN Antenna
- WIFI/BT Antenna

7.1 SAR TEST EXCLUSION CONSIDER TABLE

According with FCC KDB 447498 D01v05r02, appendix A, <SAR test exclusion thresholds for 100MHz~6GHz and ≤50mm> table, this device SAR test configurations consider as following:

Band	Test position configurations					
	Front	Back	Left edge	Right edge	Top edge	Bottom edge
GSM850	<5mm	<5mm	<5mm	<5mm	<5mm	124mm
	Yes	Yes	Yes	Yes	Yes	No
GSM1900	<5mm	<5mm	<5mm	<5mm	<5mm	124mm
	Yes	Yes	Yes	Yes	Yes	No
WCDMA Band2	<5mm	<5mm	<5mm	<5mm	<5mm	124mm
	Yes	Yes	Yes	Yes	Yes	No
WCDMA Band4	<5mm	<5mm	<5mm	<5mm	<5mm	124mm
	Yes	Yes	Yes	Yes	Yes	No
WCDMA Band5	<5mm	<5mm	<5mm	<5mm	<5mm	124mm
	Yes	Yes	Yes	Yes	Yes	No
LTE Band 2	<5mm	<5mm	<5mm	<5mm	<5mm	124mm
	Yes	Yes	Yes	Yes	Yes	No
LTE Band 4	<5mm	<5mm	<5mm	<5mm	<5mm	124mm
	Yes	Yes	Yes	Yes	Yes	No
LTE Band 5	<5mm	<5mm	<5mm	<5mm	<5mm	124mm
	Yes	Yes	Yes	Yes	Yes	No
LTE Band 7	<5mm	<5mm	<5mm	<5mm	<5mm	124mm
	Yes	Yes	Yes	Yes	Yes	No
LTE Band 17	<5mm	<5mm	<5mm	<5mm	<5mm	124mm
	Yes	Yes	Yes	Yes	Yes	No
WLAN	<5mm	<5mm	<5mm	57mm	<5mm	116mm
	Yes	Yes	Yes	No	Yes	No
Bluetooth	<5mm	<5mm	<5mm	57mm	<5mm	116mm
	Yes	Yes	Yes	No	Yes	No

Note:

1. maximum power is the source-based time-average power and represents the maximum RF output power among production units.
2. per KDB 447498 D01v05r02, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
3. per KDB 447498 D01v05r02, standalone SAR test exclusion threshold is applied; if the distance of the antenna to the user is <5mm, 5mm is user to determine SAR exclusion threshold



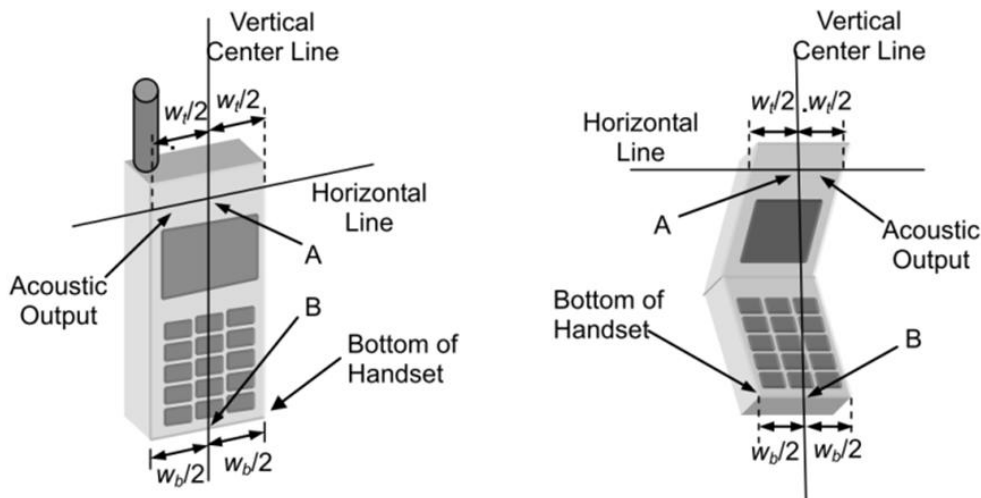
4. per KDB 447498 D01v05r02, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distance $\leq 50\text{mm}$ are determined by:
$$[(\text{max.power of channel, including tune-up tolerance, Mw})/(\text{min. test separation distance, mm})] * \sqrt{f(\text{GHz})} \leq 3.0$$
 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR
 $f(\text{GHz})$ is the RF channel transmit frequency in GHz
Power and distance are rounded to the nearest mW and mm before calculation
The result is rounded to one decimal place for comparison
For $< 50\text{mm}$ distance, we just calculate mW of the exclusion threshold value(3.0) to do compare
5. per KDB 447498 D01v05r02, at 100 MHz to 6GHz and for test separation distances $> 50\text{mm}$, the SAR test exclusion threshold is determined according to the following
 - a) [threshold at 50mm in step 1]+(test separation distance -50mm)*(f (MHz)/150)]mW, at 100 MHz to 1500 MHz
 - b) [threshold at 50mm in step1]+(test separation distance -50mm) *10]mW at $> 1500\text{MHz}$ and $\leq 6\text{GHz}$
6. Per KDB 447498 D02v02r02,RMC 12.2kbps setting is used to evaluate SAR. If HSDPA/HSUPA/DC-HSDPA output power is $< 0.25\text{db}$ higher than RMC 12.2Kbps, or reported SAR with RMC 12.2kbps setting is $\leq 1.2\text{W/Kg}$, HSDPA/HSUPA/DC-HSDPA SAR evaluation can be excluded.
7. Per KDB 248227 D01v01r02, choose the highest output power channel to test SAR and determine further SAR exclusion 8. for each frequency band ,testing at higher data rates and higher order modulations is not required when the maximum average output power for each of each of these configurations is less than 1/4db higher than those measured at the lower data rate than 11b mode ,thus the SAR can be excluded.

8. EUT Test Position

This EUT was tested in Right Cheek, Right Titled, Left Cheek, Left Titled, Front Face and Rear Face.

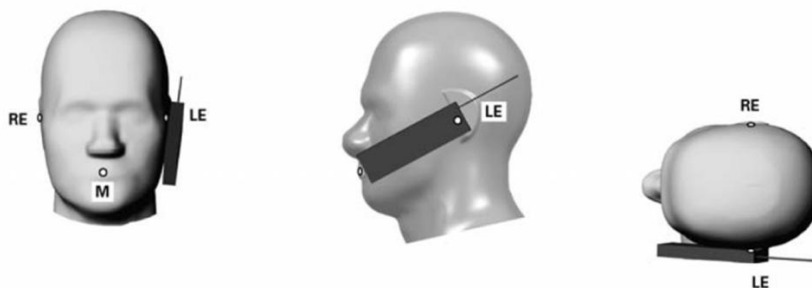
8.1 Define Two Imaginary Lines On The Handset

- (1) The vertical centerline passes through two points on the front side of the handset the midpoint of the width w_t of the handset at the level of the acoustic output, and the midpoint of the width w_b of the handset.
- (2) The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output. The horizontal line is also tangential to the face of the handset at point A.
- (3) The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.



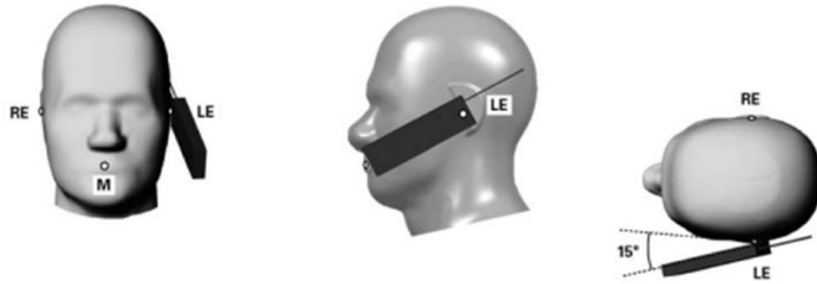
Cheek Position

- 1) To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE.
- 2) To move the device towards the phantom with the ear piece aligned with the the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost



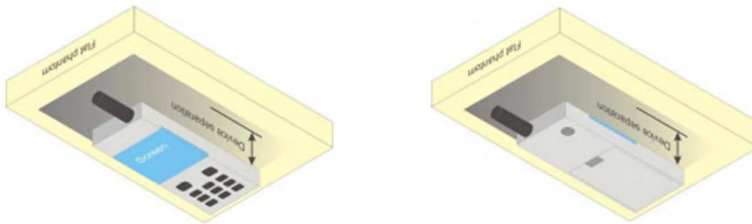
Title Position

- (1) To position the device in the "cheek" position described above.
- (2) While maintaining the device in the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until with the ear is lost.



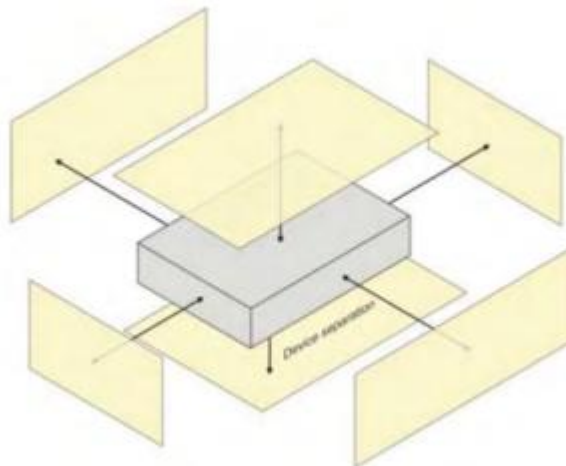
Body-worn Position Conditions

- (1) To position the EUT parallel to the phantom surface.
- (2) To adjust the EUT parallel to the flat phantom.
- (3) To adjust the distance between the EUT surface and the flat phantom to 5mm.



8.2 Hotspot mode exposure position condition

For handsets that support hotspot mode operations, with wireless router capabilities and various web browsing function, the relevant hand and body exposure condition are tested according to the hotspot SAR procedures in KDB 941225. A test separation distance of 10 mm is required between the phantom and all surface and edges with a transmitting antenna located within 25 mm from that surface or edge. When form factor of a handset is smaller than 9cm x 5cm, a test separation distance of 5mm (instead of 10mm) is required for testing hotspot mode. When the separate distance required for body-worn accessory testing is larger than or equal to that tested for hotspot mode, in the same wireless mode and for the same surface of the phone, the hotspot mode SAR data may be used to support body-worn accessory SAR compliance for that particular configuration (surface).



9. Uncertainty

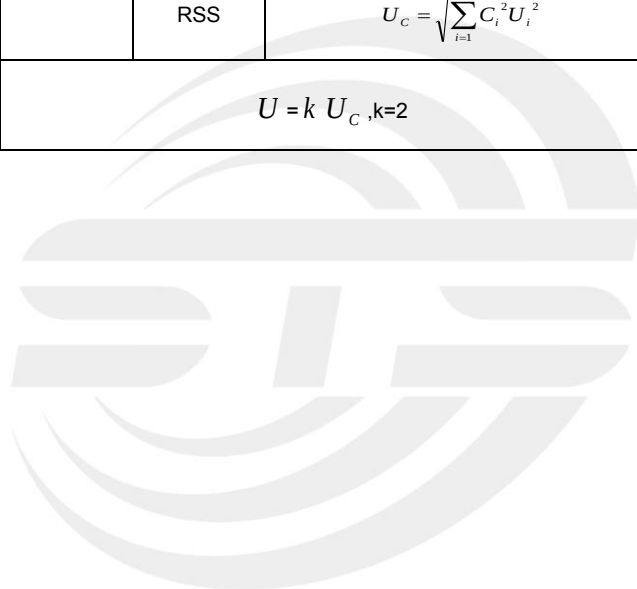
9.1 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in IEEE 1528: 2003. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

NO	Source	Tol(%)	Prob. Dist.	Div. k	ci (1g)	ci (10g)	1gUi	10gUi	Veff
Measurement System									
1	Probe calibration	5.8	N	1	1	1	5.8	5.8	∞
2	Axial isotropy	3.5	R	$\sqrt{3}$	$(1-c_p)^{1/2}$	$(1-c_p)^{1/2}$	1.43	1.43	∞
3	Hemispherical isotropy	5.9	R	$\sqrt{3}$	$\sqrt{C_p}$	$\sqrt{C_p}$	2.41	2.41	∞
4	Boundary effect	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
5	Linearity	4.7	R	$\sqrt{3}$	1	1	2.71	2.71	∞
6	System Detection limits	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
7	Readout electronics	0.5	N	1	1	1	0.50	0.50	∞
8	Response time	0	R	$\sqrt{3}$	1	1	0	0	∞
9	Integration time	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
10	Ambient noise	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
11	Ambient reflections	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
12	Probe positioner mech. restrictions	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
13	Probe positioning with respect to phantom shell	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
14	Max.SAR evaluation	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
Test sample related									
15	Device positioning	2.6	N	1	1	1	2.6	2.6	11
16	Device holder	3	N	1	1	1	3.0	3.0	7



17	Drift of output power	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Phantom and set-up									
18	Phantom uncertainty	4.0	R	$\sqrt{3}$	1	1	2.31	2.31	∞
19	Liquid conductivity (target)	2.5	N	1	0.78	0.71	1.95	1.78	5
20	Liquid conductivity (meas)	4	N	1	0.23	0.26	0.92	1.04	5
21	Liquid Permittivity (target)	2.5	N	1	0.78	0.71	1.95	1.78	∞
22	Liquid Permittivity (meas)	5.0	N	1	0.23	0.26	1.15	1.30	∞
Combined standard			RSS	$U_c = \sqrt{\sum_{i=1}^n C_i^2 U_i^2}$			10.63%	10.54%	
Expanded uncertainty (P=95%)		$U = k U_c, k=2$					21.26%	21.08%	





9.2 System validation Uncertainty

NO	Source	Tol(%)	Prob. Dist.	Div. k	ci (1g)	ci (10g)	1gUi	10gUi	Veff
Measurement System									
1	Probe calibration	5.8	N	1	1	1	5.8	5.8	∞
2	Axial isotropy	3.5	R	$\sqrt{3}$	$(1-c_p)^{1/2}$	$(1-c_p)^{1/2}$	1.43	1.43	∞
3	Hemispherical isotropy	5.9	R	$\sqrt{3}$	$\sqrt{C_p}$	$\sqrt{C_p}$	2.41	2.41	∞
4	Boundary effect	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
5	Linearity	4.7	R	$\sqrt{3}$	1	1	2.71	2.71	∞
6	System Detection limits	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
7	Modulation response	0	N	1	1	1	0	0	∞
8	Readout electronics	0.5	N	1	1	1	0.50	0.50	∞
9	Response time	0	R	$\sqrt{3}$	1	1	0	0	∞
10	Integration time	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
11	Ambient noise	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
12	Ambient reflections	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
13	Probe positioner mech. restrictions	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
14	Probe positioning with respect to phantom shell	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
15	Max.SAR evaluation	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
Dipole									
16	Deviation of experimental source from	4	N	1	1	1	4.00	4.00	∞
17	Input power and SAR drif measurement	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞



18	Dipole Axis to liquid Distance	2	R	√3	1	1			∞
Phantom and set-up									
19	Phantom uncertainty	4.0	R	√3	1	1	2.31	2.31	∞
20	Uncertainty in SAR correction for deviation(in	2.0	N	1	1	0.84	2	1.68	∞
21	Liquid conductivity (target)	2	N	1	1	0.84	2.00	1.68	∞
22	Liquid conductivity (temperature uncertainty)	2.5	N	1	0.78	0.71	1.95	1.78	5
23	Liquid conductivity (meas)	4	N	1	0.23	0.26	0.92	1.04	5
24	Liquid Permittivity (target)	2.5	N	1	0.78	0.71	1.95	1.78	∞
25	Liquid Permittivity (temperature uncertainty)	2.5	N	1	0.78	0.71	1.95	1.78	5
26	Liquid Permittivity (meas)	5.0	N	1	0.23	0.26	1.15	1.30	∞
Combined standard			RSS	$U_c = \sqrt{\sum_{i=1}^n C_i^2 U_i^2}$			10.15%	10.05%	
Expanded uncertainty (P=95%)		$U = k U_c, k=2$					21.29%	21.10%	

10. Conducted Power Measurement

Test Result:

Maximum Burst-Averaged Output Power (dBm)						
Band	GSM 850			PCS 1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880.0	1909.8
GSM(GMSK, 1-Slot)	31.30	31.41	31.44	28.10	28.53	28.82
GPRS (GMSK, 1-Slot)	31.25	31.36	31.40	28.02	28.53	28.74
GPRS (GMSK, 2-Slot)	30.41	30.44	30.48	27.16	27.57	27.90
GPRS (GMSK, 3-Slot)	29.03	29.24	29.16	25.94	26.30	26.55
GPRS (GMSK, 4-Slot)	28.52	28.70	28.60	25.26	25.74	25.96
EGPRS (GMSK, 1-Slot)	31.23	31.32	31.32	27.95	28.48	28.69
EGPRS (GMSK, 2-Slot)	30.34	30.43	30.60	27.20	27.73	27.78
EGPRS (GMSK, 3-Slot)	29.05	29.11	29.36	25.81	26.52	26.43
EGPRS (GMSK, 4-Slot)	28.42	28.42	28.80	25.19	25.94	25.78
Remark: GPRS, CS4 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						

Maximum Frame-Averaged Output Power(dBm)						
Band	GSM 850			PCS 1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880.0	1909.8
GSM(GMSK, 1-Slot)	22.30	22.41	22.44	19.10	19.53	19.82
GPRS (GMSK, 1-Slot)	22.25	22.36	22.40	19.02	19.53	19.74
GPRS (GMSK, 2-Slot)	24.41	24.44	24.48	21.16	21.57	21.90
GPRS (GMSK, 3-Slot)	24.77	24.98	24.90	21.68	22.04	22.29
GPRS (GMSK, 4-Slot)	25.52	25.70	25.60	22.26	22.74	22.96
EGPRS (GMSK, 1-Slot)	22.23	22.32	22.32	18.95	19.48	19.69
EGPRS (GMSK, 2-Slot)	24.34	24.43	24.60	21.20	21.73	21.78
EGPRS (GMSK, 3-Slot)	24.79	24.85	25.10	21.55	22.26	22.17
EGPRS (GMSK, 4-Slot)	25.42	25.42	25.80	22.19	22.94	22.78
Remark : 1. SAR testing was performed on the maximum frame-averaged power mode. 2. The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots. The calculated method is shown as below: Frame-averaged power = Burst averaged power (1 Tx Slot) - 9 dB Frame-averaged power = Burst averaged power (2 Tx Slots) - 6 dB Frame-averaged power = Burst averaged power (3 Tx Slots) - 4.26 dB Frame-averaged power = Burst averaged power (4 Tx Slots) - 3 dB						

Band	WCDMA Band V			WCDMA Band II		
Channel	4132	4182	4233	9263	9400	9537
Frequency (MHz)	826.4	836.6	846.6	1852.4	1880.0	1907.6
RMC 12.2Kbps	22.36	22.39	22.43	21.52	21.38	21.80
HSDPA Subtest-1	21.88	21.89	21.97	21.10	20.93	21.39
HSDPA Subtest-2	21.38	21.51	21.47	20.72	20.48	20.97
HSDPA Subtest-3	20.97	21.07	20.99	20.28	20.06	20.52
HSDPA Subtest-4	20.44	20.37	20.44	19.62	19.40	19.85
HSUPA Subtest-1	21.42	21.44	21.52	20.70	20.51	20.91
HSUPA Subtest-2	21.02	20.99	20.98	20.14	20.04	20.46
HSUPA Subtest-3	20.62	20.58	20.48	19.70	19.59	20.00
HSUPA Subtest-4	19.97	20.00	19.97	19.19	19.06	19.49
HSUPA Subtest-5	19.29	19.34	19.28	18.64	18.54	18.93

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.

Mode	Channel Number	Frequency (MHz)	Average Power (dBm)
802.11b	1	2412	12.57
	6	2437	12.97
	11	2462	12.22
802.11g	1	2412	9.90
	6	2437	9.58
	11	2462	9.67
802.11n(HT-20)	1	2412	8.52
	6	2437	9.48
	11	2462	8.74
802.11n(HT-40)	3	2422	7.79
	6	2437	7.86
	9	2452	7.22

Justification for test configurations for WLAN per KDB publication 248227 D01Wi-Fi SAR v02r02:

1. Power measurements were performed for the transmission mode configuration with the highest maximum output power specified for production units.
2. For transmission modes with the same maximum output power specification, power were measured for the largest Channel bandwidth, lowest order modulation and lowest data rate.
3. For transmission modes with identical maximum specified output power, channel bandwidth, modulation and data rates, power measurements were required for all identical configurations.
4. For each transmission mode configuration, powers were measured for the highest and lowest channels; and at the mid-band channel(s) when there were at least 3 channels supported. For configurations with multiple mid-band channels, due to an even number of channels, both channels were measured.
5. The bolded data rate and channel above were tested for SAR.

Bluetooth

Mode	Channel Number	Frequency (MHz)	Average Power (dBm)
GFSK(1M)	0	2402	-4.358
	39	2441	-2.252
	78	2480	-0.525
$\pi/4$ -DQPSK(2bps)	0	2402	-5.222
	39	2441	-3.069
	78	2480	-1.494
8-DPSK(3Mbps)	0	2402	-4.976
	39	2441	-2.863
	78	2480	-1.220

BT 4.0

Mode	Channel Number	Frequency (MHz)	Average Power (dBm)
GFSK(1M)	0	2402	-10.795
	19	2422	-8.123
	39	2442	-7.669



LTE Conducted Power

General Note:

1. Anritsu MT8820C 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 D05v02r03, 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 D05v02r03, 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 D05v02r03, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
5. Per KDB 941225 D05v02r03, 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 D05v02r03, 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 D05v02r03, 16QAM SAR testing is not required.
7. Per KDB 941225 D05v02r03, 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 D05v02r03, smaller bandwidth SAR testing is not required.



BW(MHz)	Modulation	RB Size	RB Offset	Power Low CH./Freq.	Power Middle CH./Freq.	Power High CH./Freq.
Channel				18700	18900	19100
Frequency(MHz)				1860	1880	1900
20	QPSK	1	0	23.04	22.78	22.75
20	QPSK	1	50	22.93	22.80	22.94
20	QPSK	1	99	22.79	22.79	22.92
20	QPSK	50	0	21.98	21.76	21.88
20	QPSK	50	24	21.91	21.75	21.90
20	QPSK	50	50	21.87	21.77	21.98
20	QPSK	100	0	21.90	21.76	21.90
20	16QAM	1	0	22.07	22.15	22.29
20	16QAM	1	50	21.97	22.16	22.40
20	16QAM	1	99	21.81	22.15	22.47
20	16QAM	50	0	21.05	20.79	20.87
20	16QAM	50	24	20.96	20.80	20.89
20	16QAM	50	50	20.93	20.80	20.95
20	16QAM	100	0	20.95	20.80	20.95
Channel				18675	18900	19125
Frequency(MHz)				1857.5	1880	1902.5
15	QPSK	1	0	22.98	22.71	22.84
15	QPSK	1	38	22.90	22.73	23.00
15	QPSK	1	75	22.78	22.72	23.04
15	QPSK	36	0	21.98	21.75	21.94
15	QPSK	36	18	21.96	21.75	22.03
15	QPSK	36	75	21.89	21.77	22.08
15	QPSK	75	0	21.96	21.76	22.04
15	16QAM	1	0	22.19	21.94	21.71
15	16QAM	1	38	22.10	21.97	21.81
15	16QAM	1	75	21.96	21.97	21.88
15	16QAM	36	0	21.04	20.77	20.95
15	16QAM	36	18	21.02	20.77	21.01
15	16QAM	36	75	20.95	20.76	21.03
15	16QAM	75	0	20.96	20.77	20.93
Channel				18650	18900	19150
Frequency(MHz)				1855	1880	1905
10	QPSK	1	0	23.00	22.64	22.91
10	QPSK	1	24	22.96	22.68	23.01
10	QPSK	1	49	22.84	22.61	22.82
10	QPSK	12	0	21.99	21.70	21.88
10	QPSK	12	12	21.84	21.65	21.85
10	QPSK	12	24	21.95	21.74	21.98
10	QPSK	25	0	22.00	21.71	21.93
10	16QAM	1	0	22.21	21.94	21.95
10	16QAM	1	24	22.18	21.94	21.95
10	16QAM	1	49	22.02	21.82	21.97
10	16QAM	12	0	22.18	21.86	21.88
10	16QAM	12	12	22.10	21.87	21.93
10	16QAM	12	24	21.95	21.75	21.88
10	16QAM	25	0	21.01	20.72	20.94



Channel				18625	18900	19175
Frequency(MHz)				1852.5	1880	1907.5
5	QPSK	1	0	23.03	22.68	23.01
5	QPSK	1	13	23.04	22.69	23.02
5	QPSK	1	24	23.04	22.66	23.00
5	QPSK	12	0	22.12	21.74	22.08
5	QPSK	12	6	22.01	21.58	21.93
5	QPSK	12	13	22.11	21.72	22.10
5	QPSK	25	0	21.99	21.66	22.04
5	16QAM	1	0	22.08	21.72	22.05
5	16QAM	1	13	22.13	21.68	22.07
5	16QAM	1	24	22.12	21.67	21.98
5	16QAM	12	0	21.93	21.65	21.85
5	16QAM	12	6	22.01	21.54	21.96
5	16QAM	12	13	22.01	21.68	21.84
5	16QAM	25	0	21.10	20.84	21.01
Channel				18615	18900	19185
Frequency(MHz)				1851.5	1880	1908.5
3	QPSK	1	0	22.83	22.60	22.86
3	QPSK	1	8	22.94	22.62	22.92
3	QPSK	1	14	22.91	22.56	22.83
3	QPSK	8	0	21.94	21.67	21.96
3	QPSK	8	4	21.85	21.53	21.87
3	QPSK	8	8	21.93	21.66	22.04
3	QPSK	15	0	21.92	21.70	21.95
3	16QAM	1	0	22.31	22.15	22.22
3	16QAM	1	8	22.24	22.19	22.33
3	16QAM	1	14	22.28	22.14	22.15
3	16QAM	8	0	22.30	22.10	22.25
3	16QAM	8	4	22.36	22.15	22.25
3	16QAM	8	8	22.16	22.02	22.14
3	16QAM	15	0	20.93	20.77	20.97
Channel				18607	18900	19193
Frequency(MHz)				1850.7	1880	1909.3
1.4	QPSK	1	0	22.99	22.66	22.95
1.4	QPSK	1	3	23.01	22.68	23.02
1.4	QPSK	1	5	23.00	22.69	22.98
1.4	QPSK	3	0	23.08	22.79	22.98
1.4	QPSK	3	1	23.05	22.2	22.86
1.4	QPSK	3	3	23.08	22.77	23.01
1.4	QPSK	6	0	21.95	21.64	21.94
1.4	16QAM	1	0	22.13	21.68	21.84
1.4	16QAM	1	3	22.15	21.70	21.99
1.4	16QAM	1	5	22.11	21.68	21.95
1.4	16QAM	3	0	22.01	21.59	21.88
1.4	16QAM	3	1	22.16	21.75	21.88
1.4	16QAM	3	3	22.01	21.56	21.86
1.4	16QAM	6	0	21.00	20.67	20.83



BW(MHz)	Modulation	RB Size	RB Offset	Power Low CH./Freq.	Power Middle CH./Freq.	Power High CH./Freq.
Channel				20050	20175	20300
Frequency(MHz)				1720	1732.5	1745
20	QPSK	1	0	22.28	22.42	22.48
20	QPSK	1	50	22.36	22.56	22.60
20	QPSK	1	99	22.54	22.67	22.57
20	QPSK	50	0	22.28	22.46	22.53
20	QPSK	50	24	22.34	22.51	22.58
20	QPSK	50	50	22.43	22.54	22.56
20	QPSK	100	0	22.36	22.47	22.54
20	16QAM	1	0	22.24	22.77	22.94
20	16QAM	1	50	22.41	22.88	23.04
20	16QAM	1	99	22.56	22.95	23.05
20	16QAM	50	0	22.26	22.42	22.43
20	16QAM	50	24	22.36	22.48	22.48
20	16QAM	50	50	22.44	22.47	22.49
20	16QAM	100	0	22.34	22.46	22.53
Channel				20025	20175	20325
Frequency(MHz)				1717.5	1732.5	1747.5
15	QPSK	1	0	22.25	22.40	22.66
15	QPSK	1	38	22.35	22.50	22.65
15	QPSK	1	75	22.40	22.57	22.66
15	QPSK	36	0	22.37	22.59	22.43
15	QPSK	36	18	22.40	22.66	22.50
15	QPSK	36	75	22.45	22.71	22.47
15	QPSK	75	0	22.42	22.48	22.63
15	16QAM	1	0	22.37	22.54	22.61
15	16QAM	1	38	22.51	22.56	22.62
15	16QAM	1	75	22.59	22.55	22.54
15	16QAM	36	0	22.36	22.59	22.27
15	16QAM	36	18	22.42	22.63	22.37
15	16QAM	36	75	22.48	22.56	22.53
15	16QAM	75	0	22.38	22.68	22.28
Channel				20000	20175	20350
Frequency(MHz)				1715	1732.5	1750
10	QPSK	1	0	22.26	22.42	22.59
10	QPSK	1	24	22.31	22.48	22.56
10	QPSK	1	49	22.33	22.49	22.53
10	QPSK	25	0	22.25	22.40	22.51
10	QPSK	25	12	22.30	22.46	22.53
10	QPSK	25	24	22.33	22.49	22.54
10	QPSK	50	0	22.29	22.45	22.54
10	16QAM	1	0	22.36	22.61	22.61
10	16QAM	1	24	22.44	22.65	22.64
10	16QAM	1	49	22.48	22.66	22.65
10	16QAM	25	0	22.26	22.44	22.56
10	16QAM	25	12	22.32	22.49	22.57
10	16QAM	25	24	22.36	22.49	22.59
10	16QAM	50	0	22.24	22.43	22.48



Channel				19975	20175	20375
Frequency(MHz)				1712.5	1732.5	1752.5
5	QPSK	1	0	22.80	23.09	23.23
5	QPSK	1	13	22.77	23.09	23.17
5	QPSK	1	24	22.80	23.10	23.17
5	QPSK	12	0	22.79	23.06	23.19
5	QPSK	12	6	22.80	23.07	23.18
5	QPSK	12	13	22.81	23.04	22.75
5	QPSK	25	0	22.74	23.01	23.00
5	16QAM	1	0	22.81	23.17	22.81
5	16QAM	1	13	22.83	23.16	23.10
5	16QAM	1	24	22.85	23.15	22.96
5	16QAM	12	0	22.78	23.07	22.58
5	16QAM	12	6	22.81	23.05	22.36
5	16QAM	12	13	22.80	23.02	22.35
5	16QAM	25	0	22.75	22.93	22.29
Channel				19965	20175	20385
Frequency(MHz)				1711.5	1732.5	1753.5
3	QPSK	1	0	22.67	22.96	23.09
3	QPSK	1	8	22.66	22.93	23.09
3	QPSK	1	14	22.68	23.00	23.06
3	QPSK	6	0	22.76	23.06	23.17
3	QPSK	6	4	22.79	23.07	23.20
3	QPSK	6	8	22.80	23.09	23.16
3	QPSK	15	0	22.74	23.01	23.13
3	16QAM	1	0	22.77	23.15	23.17
3	16QAM	1	8	22.78	23.11	23.20
3	16QAM	1	14	22.79	23.14	23.18
3	16QAM	6	0	22.83	23.15	23.21
3	16QAM	6	4	22.83	23.15	23.19
3	16QAM	6	8	22.85	23.15	23.20
3	16QAM	15	0	22.67	22.99	23.10
Channel				19957	20175	20393
Frequency(MHz)				1710.7	1732.5	1754.3
1.4	QPSK	1	0	22.70	22.97	23.10
1.4	QPSK	1	3	22.71	22.95	23.10
1.4	QPSK	1	5	22.71	23.01	23.12
1.4	QPSK	3	0	22.75	22.99	23.18
1.4	QPSK	3	1	22.66	22.96	23.08
1.4	QPSK	3	3	22.72	23.04	23.15
1.4	QPSK	6	0	22.73	22.99	23.08
1.4	16QAM	1	0	22.57	23.12	23.21
1.4	16QAM	1	3	22.57	23.12	23.16
1.4	16QAM	1	5	22.55	23.17	23.20
1.4	16QAM	3	0	22.61	22.95	23.02
1.4	16QAM	3	1	22.56	22.88	22.97
1.4	16QAM	3	3	22.60	22.94	23.02
1.4	16QAM	6	0	22.72	22.99	23.08



LTE Band 5

BW(MHz)	Modulation	RB Size	RB Offset	Power Low CH./Freq.	Power Middle CH./Freq.	Power High CH./Freq.
Channel				20450	20525	20600
Frequency(MHz)				829.0	836.5	844.0
10	QPSK	1	0	22.60	23.17	23.34
10	QPSK	1	24	22.60	23.24	23.28
10	QPSK	1	49	22.58	23.65	23.24
10	QPSK	25	0	21.50	21.82	22.14
10	QPSK	25	12	21.58	22.15	22.20
10	QPSK	25	24	21.63	21.75	22.24
10	QPSK	50	0	21.56	21.59	22.16
10	16QAM	1	0	21.59	22.22	22.22
10	16QAM	1	24	21.73	21.82	22.28
10	16QAM	1	49	21.79	21.79	22.34
10	16QAM	25	0	20.49	21.34	21.12
10	16QAM	25	12	20.53	21.21	21.20
10	16QAM	25	24	20.48	21.08	21.26
10	16QAM	50	0	20.71	21.14	21.09
Channel				20425	20525	20625
Frequency(MHz)				826.5	836.5	846.5
5	QPSK	1	0	23.27	23.26	23.41
5	QPSK	1	13	23.17	23.21	23.34
5	QPSK	1	24	23.17	23.27	23.38
5	QPSK	12	0	22.11	22.22	23.35
5	QPSK	12	6	22.12	22.22	23.36
5	QPSK	12	13	22.15	22.21	23.35
5	QPSK	25	0	22.08	22.16	22.28
5	16QAM	1	0	22.07	22.39	22.62
5	16QAM	1	13	22.11	22.29	22.63
5	16QAM	1	24	22.23	22.24	22.61
5	16QAM	12	0	21.09	21.26	21.27
5	16QAM	12	6	21.11	21.23	21.28
5	16QAM	12	13	21.15	21.20	21.28
5	16QAM	25	0	21.09	21.12	21.22
Channel				20415	20525	20635
Frequency(MHz)				825.5	836.5	847.5
3	QPSK	1	0	23.18	23.11	23.31
3	QPSK	1	7	23.10	23.09	23.29
3	QPSK	1	14	23.11	23.11	23.35
3	QPSK	8	0	22.15	22.20	22.33
3	QPSK	8	4	22.18	22.19	22.36
3	QPSK	8	7	22.16	22.21	22.30
3	QPSK	15	0	22.06	22.15	22.31
3	16QAM	1	0	22.07	22.35	22.35
3	16QAM	1	7	22.08	22.26	22.38
3	16QAM	1	14	22.10	22.26	22.31
3	16QAM	8	0	21.18	21.29	21.38
3	16QAM	8	4	21.16	21.29	21.38
3	16QAM	8	7	21.18	21.37	21.39
3	16QAM	15	0	20.98	21.16	21.49



Channel				20407	20525	20643
Frequency(MHz)				824.7	836.5	848.3
1.4	QPSK	1	0	23.18	23.12	23.31
1.4	QPSK	1	2	23.14	23.12	23.33
1.4	QPSK	1	5	23.16	23.14	23.38
1.4	QPSK	3	0	22.99	23.19	23.33
1.4	QPSK	3	1	22.95	23.13	23.27
1.4	QPSK	3	2	23.02	23.19	23.30
1.4	QPSK	6	0	22.15	22.14	22.28
1.4	16QAM	1	0	21.89	22.31	22.37
1.4	16QAM	1	2	21.89	22.28	22.31
1.4	16QAM	1	5	21.91	22.31	22.33
1.4	16QAM	3	0	21.85	22.16	22.20
1.4	16QAM	3	1	21.82	22.06	22.12
1.4	16QAM	3	2	21.88	22.10	22.16
1.4	16QAM	6	0	21.07	21.16	21.31

LTE Band 7

BW(MHz)	Modulation	RB Size	RB Offset	Power Low CH./Freq.	Power Middle CH./Freq.	Power High CH./Freq.
Channel				20850	21100	21350
Frequency(MHz)				2510	2535	2560
20	QPSK	1	0	22.05	21.40	20.90
20	QPSK	1	50	21.85	21.15	21.04
20	QPSK	1	99	21.52	21.07	21.26
20	QPSK	50	0	20.93	20.21	20.01
20	QPSK	50	24	20.83	20.13	20.09
20	QPSK	50	50	20.66	20.04	20.24
20	QPSK	100	0	20.80	20.11	20.14
20	16QAM	1	0	21.08	20.71	20.84
20	16QAM	1	50	20.89	20.50	20.59
20	16QAM	1	99	20.54	20.41	20.84
20	16QAM	50	0	19.93	19.14	18.96
20	16QAM	50	24	19.81	19.04	19.09
20	16QAM	50	50	19.61	18.99	19.22
20	16QAM	100	0	19.73	19.06	19.19
Channel				20825	21100	21350
Frequency(MHz)				2507.5	2535	2562.5
15	QPSK	1	0	22.04	21.25	20.96
15	QPSK	1	38	21.91	21.10	21.12
15	QPSK	1	75	21.69	20.96	21.27
15	QPSK	36	0	21.00	20.18	20.07
15	QPSK	36	18	20.95	20.08	20.15
15	QPSK	36	75	20.84	20.04	20.22
15	QPSK	75	0	20.94	20.12	20.16
15	16QAM	1	0	21.20	20.43	19.90
15	16QAM	1	38	21.07	20.30	20.08
15	16QAM	1	75	20.82	20.21	20.20
15	16QAM	36	0	20.24	19.07	19.21
15	16QAM	36	18	19.96	19.07	19.21
15	16QAM	36	75	19.82	19.05	19.27
15	16QAM	75	0	19.89	19.09	19.12



Channel				20800	21100	21400
Frequency(MHz)				2505	2535	2565
10	QPSK	1	0	21.93	21.18	21.06
10	QPSK	1	24	21.84	21.07	21.05
10	QPSK	1	49	21.72	21.07	21.05
10	QPSK	25	0	20.89	20.10	20.08
10	QPSK	25	12	20.84	20.05	20.12
10	QPSK	25	24	20.83	20.05	20.20
10	QPSK	50	0	20.86	20.08	20.14
10	16QAM	1	0	21.14	20.29	20.19
10	16QAM	1	24	21.05	20.22	20.29
10	16QAM	1	49	20.93	20.19	20.36
10	16QAM	25	0	19.94	19.32	19.15
10	16QAM	25	12	19.90	19.65	19.22
10	16QAM	25	24	19.85	19.14	19.29
10	16QAM	50	0	19.84	19.38	19.16
Channel				20775	21100	21425
Frequency(MHz)				2502.5	2535	2567.5
5	QPSK	1	0	21.93	21.26	21.29
5	QPSK	1	13	21.91	21.20	20.47
5	QPSK	1	24	21.90	21.12	20.27
5	QPSK	12	0	21.02	20.19	19.27
5	QPSK	12	6	21.02	20.19	19.27
5	QPSK	12	13	20.99	20.14	19.31
5	QPSK	25	0	20.95	20.11	19.25
5	16QAM	1	0	21.15	20.36	19.66
5	16QAM	1	13	21.15	20.22	19.71
5	16QAM	1	24	21.05	20.29	19.76
5	16QAM	12	0	20.08	19.73	18.30
5	16QAM	12	6	20.05	19.03	18.34
5	16QAM	12	13	20.02	19.91	18.36
5	16QAM	25	0	20.00	18.88	18.28



LTE Band 17

BW(MHz)	Modulation	RB Size	RB Offset	Power Low CH./Freq.	Power Middle CH./Freq.	Power High CH./Freq.
Channel				23780	23790	23800
Frequency(MHz)				709	710	711
10	QPSK	1	0	22.49	22.48	22.46
10	QPSK	1	24	22.36	22.32	22.31
10	QPSK	1	49	22.15	22.13	22.04
10	QPSK	25	0	21.47	21.44	21.43
10	QPSK	25	12	21.44	21.41	21.38
10	QPSK	25	24	21.42	21.31	21.27
10	QPSK	50	0	21.49	21.43	21.37
10	16QAM	1	0	21.61	21.73	21.68
10	16QAM	1	24	21.68	21.66	21.62
10	16QAM	1	49	21.34	21.33	21.20
10	16QAM	25	0	20.60	20.59	20.65
10	16QAM	25	12	20.59	20.54	20.54
10	16QAM	25	24	20.53	20.41	20.38
10	16QAM	50	0	20.52	20.46	20.42
Channel				23755	23790	23825
Frequency(MHz)				706.5	710	713.5
5	QPSK	1	0	22.56	22.45	22.37
5	QPSK	1	13	22.57	22.43	22.23
5	QPSK	1	24	22.40	22.28	21.99
5	QPSK	12	0	21.59	21.45	21.32
5	QPSK	12	6	21.59	21.44	21.25
5	QPSK	12	13	21.54	21.41	21.19
5	QPSK	25	0	21.50	21.43	21.20
5	16QAM	1	0	21.69	21.66	21.86
5	16QAM	1	13	21.75	21.69	21.66
5	16QAM	1	24	21.71	21.48	21.41
5	16QAM	12	0	21.70	20.61	20.34
5	16QAM	12	6	20.75	20.57	20.25
5	16QAM	12	13	20.70	20.52	20.21
5	16QAM	25	0	20.68	20.46	20.22

Mode	GSM850(AVG)	GSM1900(AVG)
GSM/PCS	31±1dBm	28±1dBm
GPRS (1 Slot)	31±1dBm	28±1dBm
GPRS (2 Slot)	30±1dBm	27±1dBm
GPRS (3 Slot)	29±1dBm	26±1dBm
GPRS (4 Slot)	28±1dBm	25±1dBm
EGPRS (1 Slot)	31±1dBm	28±1dBm
EGPRS (2 Slot)	30±1dBm	27±1dBm
EGPRS (3 Slot)	29±1dBm	26±1dBm
EGPRS (4 Slot)	28±1dBm	25±1dBm

Mode	WCDMA Band V(AVG)	WCDMA Band II(AVG)
AMR	22±1dBm	21±1dBm
HSDPA Subtest-1	21±1dBm	21±1dBm
HSDPA Subtest-2	21±1dBm	20±1dBm
HSDPA Subtest-3	21±1dBm	20±1dBm
HSDPA Subtest-4	20±1dBm	19±1dBm
HSUPA Subtest-1	21±1dBm	20±1dBm
HSUPA Subtest-2	21±1dBm	20±1dBm
HSUPA Subtest-3	20±1dBm	19±1dBm
HSUPA Subtest-4	19±1dBm	19±1dBm
HSUPA Subtest-5	19±1dBm	18±1dBm

BW[MHz]	RB Size	Mode	Band II	Band IV	Band V	Band VII	Band XVII
1.4	1	QPS K	23±1Bm	23±1dBm	23±1dBm	N/A	N/A
1.4	3		23±1dBm	23±1dBm	23±1dBm	N/A	N/A
1.4	6		21±1dBm	23±1dBm	22±1dBm	N/A	N/A
1.4	1	16- QAM	22±1dBm	23±1dBm	22±1dBm	N/A	N/A
1.4	3		22±1dBm	23±1dBm	22±1dBm	N/A	N/A
1.4	6		21±1dBm	23±1dBm	21±1dBm	N/A	N/A
3	1	QPS K	22±1dBm	23±1dBm	23±1dBm	N/A	N/A
3	6		22±1dBm	23±1dBm	22±1dBm	N/A	N/A
3	15		21±1dBm	23±1dBm	22±1dBm	N/A	N/A
3	1	16- QAM	22±1dBm	23±1dBm	22±1dBm	N/A	N/A
3	6		22±1dBm	23±1dBm	21±1dBm	N/A	N/A
3	15		20±1dBm	23±1dBm	21±1dBm	N/A	N/A



5	1	QPSK	23±1dBm	23±1dBm	23±1dBm	21±1dBm	22±1dBm
5	12		22±1dBm	23±1dBm	23±1dBm	20.2±1dBm	21±1dBm
5	25		22±1dBm	23±1dBm	22±1dBm	20±1dBm	21±1dBm
5	1	16-QAM	22±1dBm	23±1dBm	22±1dBm	20.2±1dBm	21±1dBm
5	12		22±1dBm	23±1dBm	21±1dBm	19.1±1dBm	21±1dBm
5	25		21±1dBm	22±1dBm	21±1dBm	19±1dBm	20±1dBm
10	1	QPSK	23±1dBm	22±dBm	23±1dBm	21±1dBm	22±1dBm
10	25		21±1dBm	22±dBm	22±1dBm	20±1dBm	21±1dBm
10	50		21±1dBm	22±dBm	22±1dBm	20±1dBm	21±1dBm
10	1	16-QAM	22±1dBm	22±1dBm	22±1dBm	21±1dBm	21±1dBm
10	25		22±1dBm	22±1dBm	21±1dBm	19±1dBm	21±1dBm
10	50		21±1dBm	22±1dBm	21±1dBm	19±1dBm	20±1dBm
15	1	QPSK	23±1dBm	22±1dBm	N/A	21.1±1dBm	N/A
15	36		22±1dBm	22±1dBm	N/A	21±1dBm	N/A
15	75		22±1dBm	22±1dBm	N/A	20±1dBm	N/A
15	1	16-QAM	22±1dBm	22±1dBm	N/A	20.5±1dBm	N/A
15	36		21±1dBm	22±1dBm	N/A	20±1dBm	N/A
15	75		20±1dBm	22±1dBm	N/A	19±1dBm	N/A
20	1	QPSK	23±1dBm	22±1dBm	N/A	21.2±1dBm	N/A
20	50		21±1dBm	22±1dBm	N/A	20±1dBm	N/A
20	100		21±1dBm	22±1dBm	N/A	20±1dBm	N/A
20	1	16-QAM	22±1dBm	23±1dBm	N/A	21±1dBm	N/A
20	50		21±1dBm	22±1dBm	N/A	19±1dBm	N/A
20	100		20±1dBm	22±1dBm	N/A	19±1dBm	N/A

Mode	WIFI(AVG)		
	Low	middle	high
IEEE 802.11b	12±1dBm	12±1dBm	12±1dBm
IEEE 802.11g	9±1dBm	9±1dBm	9±1dBm
IEEE 802.11n HT20	8±1dBm	9±1dBm	8±1dBm
IEEE 802.11n HT40	7±1dBm	7±1dBm	7±1dBm

Mode	BT(AVG)		
	Low	middle	high
GFSK	-4±1dBm	-2±1dBm	-0.5±1dBm
π/4-DQPSK	-5±1dBm	-3±1dBm	-1±1dBm
8DPSK	-4±1dBm	-2±1dBm	-1±1dBm

Mode	BT4.0(AVG)		
	Low	middle	high
GFSK	-10±1dBm	-8±1dBm	-7±1dBm

11. EUT And Test Setup Photo

11.1 EUT Photo

Front side



Back side



Top side



Bottom side



Left side



Right side



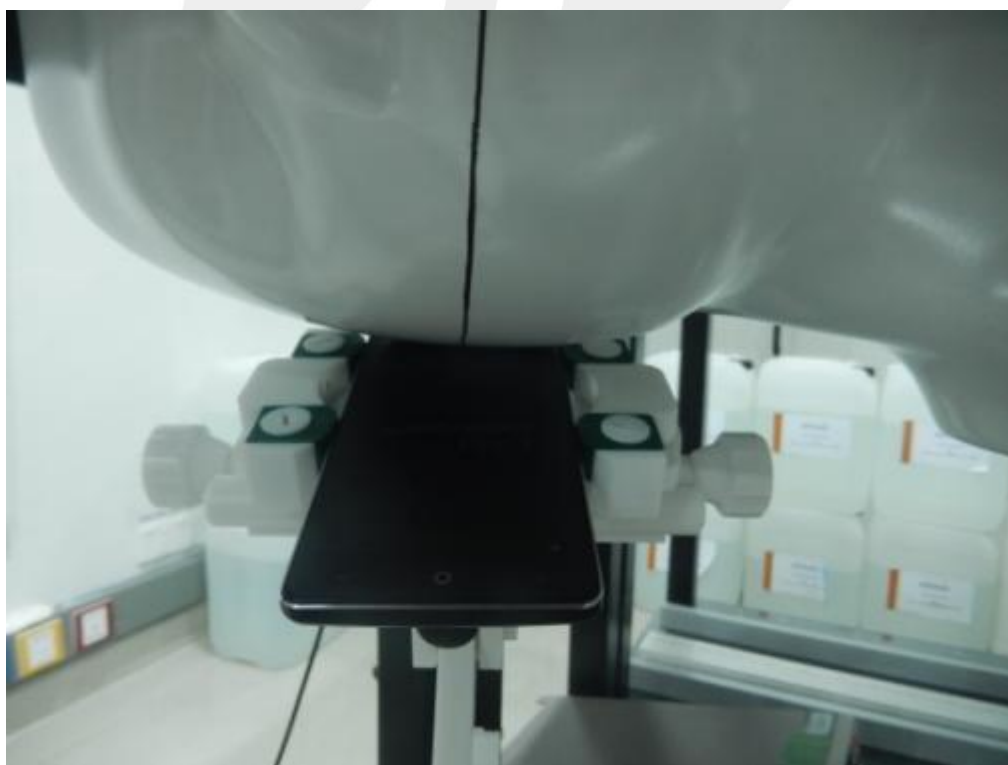


11.2 Setup Photo

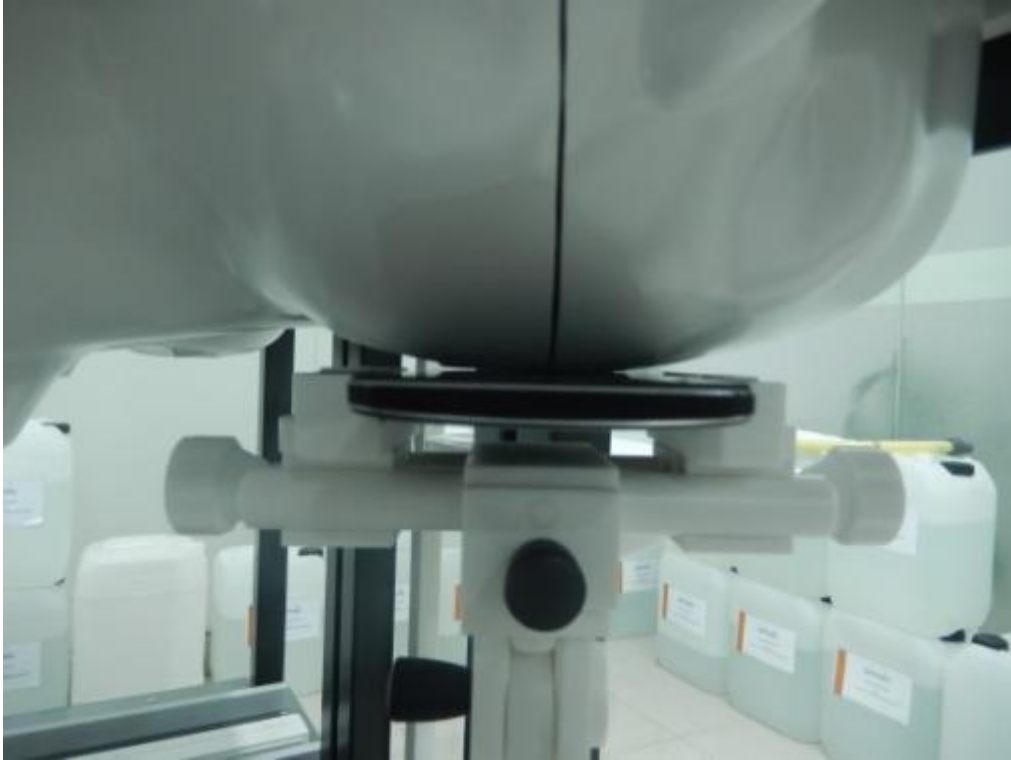
Right Touch



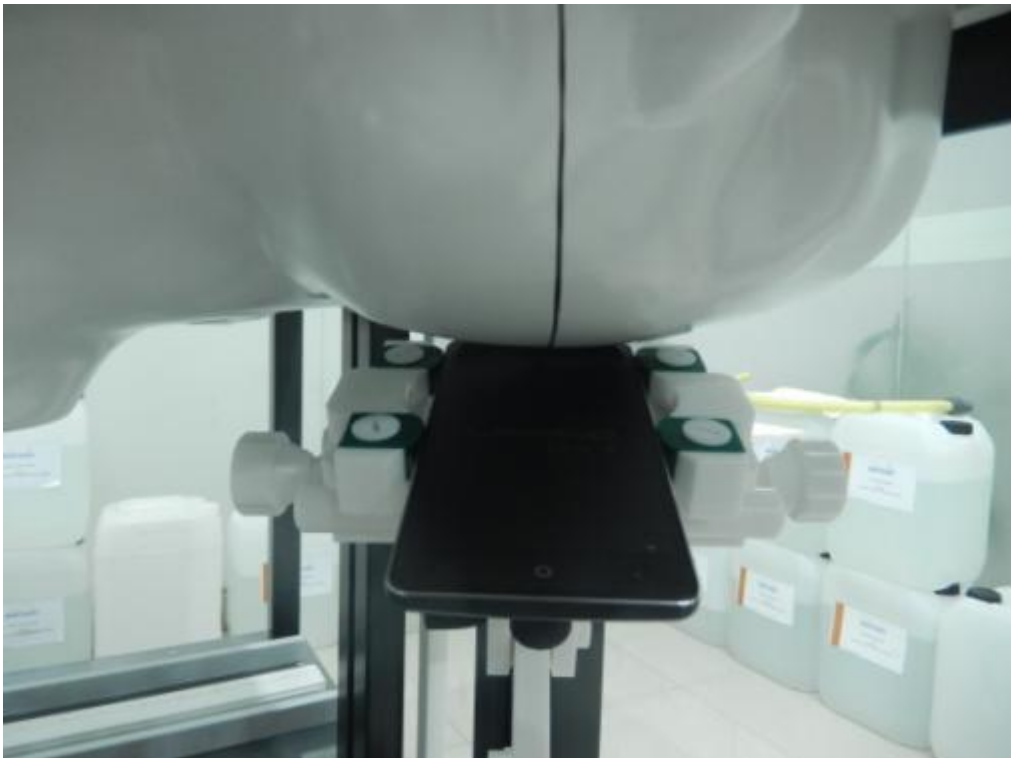
Right Tilt



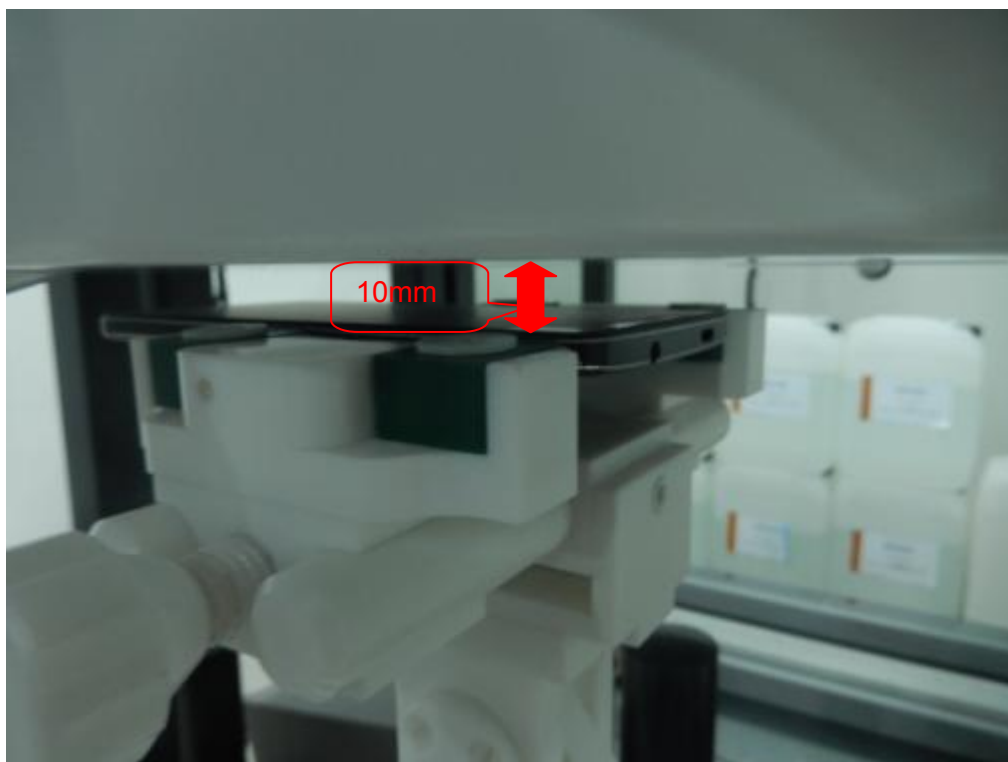
Left Touch



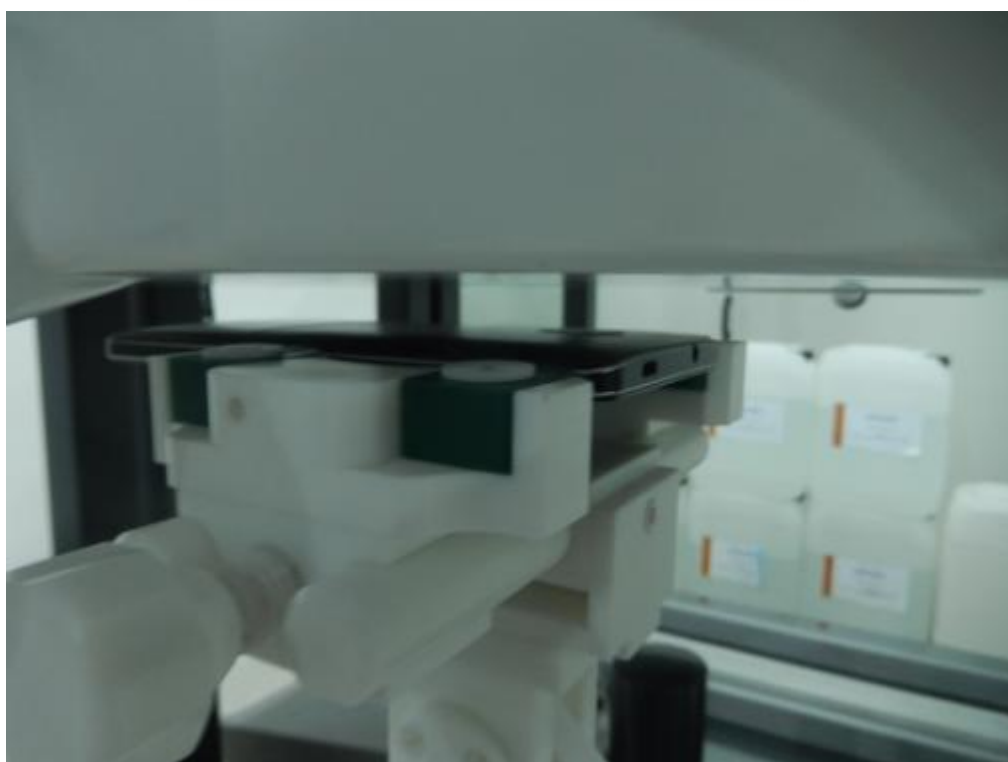
Left Tilt



Body Front side



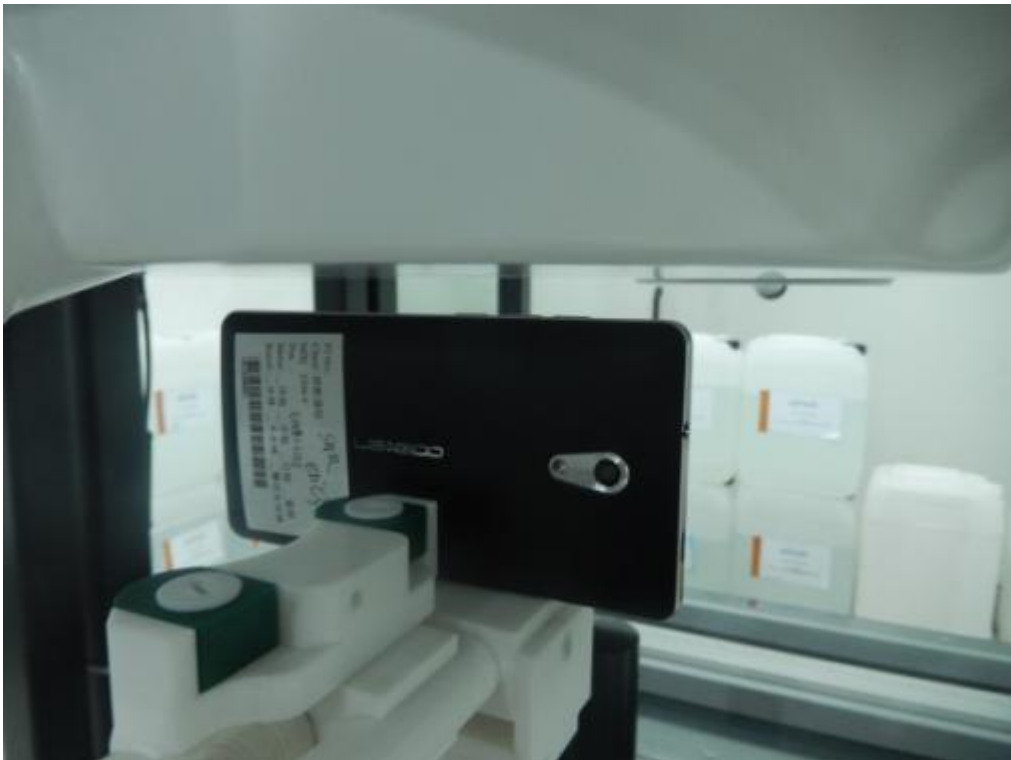
Body Back side



Body Left side



Body Right side



Body Top side



Body Bottom side



Liquid depth (15 cm)





12. SAR Result Summary

12.1 Head SAR

Band	Mode	Test Position	Channel	Result 1g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR (W/Kg)	Meas. No.
GSM 850	Voice	Right Cheek	CH 251	0.155	-3.59	32	31.44	0.176	1
		Right Tilt	CH 251	0.126	-3.53	32	31.44	0.143	2
		Left Cheek	CH 251	0.191	-3.17	32	31.44	0.217	3
		Left Tilt	CH 251	0.107	-4.14	32	31.44	0.122	4
GSM1900	Voice	Right Cheek	CH 810	0.271	-0.87	29	28.82	0.282	10
		Right Tilt	CH 810	0.078	-3.21	29	28.82	0.081	11
		Left Cheek	CH 810	0.201	-3.26	29	28.82	0.210	12
		Left Tilt	CH 810	0.077	-0.87	29	28.82	0.080	13
WCDMA II	RMC	Right Cheek	CH 9537	0.446	1.48	22	21.80	0.467	19
		Right Tilt	CH 9537	0.122	1.62	22	21.80	0.128	20
		Left Cheek	CH 9537	0.284	-1.77	22	21.80	0.297	21
		Left Tilt	CH 9537	0.115	-1.53	22	21.80	0.120	22
WCDMA V	RMC	Right Cheek	CH4233	0.138	-4.38	23	22.43	0.157	28
		Right Tilt	CH4233	0.083	-4.09	23	22.43	0.095	29
		Left Cheek	CH4233	0.185	-3.37	23	22.43	0.211	30
		Left Tilt	CH4233	0.078	-4.00	23	22.43	0.089	31

Band	Mode	Test Position	Channel	Result 1g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Duty cycle(%)	Scaled SAR (W/Kg)	Meas. No.
WIFI	802.11b	Right Cheek	CH 6	0.243	1.35	13	12.97	100	0.245	37
		Right Tilt	CH 6	0.170	-3.19	13	12.97	100	0.171	38
		Left Cheek	CH 6	0.062	-0.70	13	12.97	100	0.062	39
		Left Tilt	CH 6	0.057	-4.68	13	12.97	100	0.057	40



Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Ch.	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	0	Right Cheek	18700	0.571	-1.08	24	23.04	0.712	45
			50	0	Right Cheek	18700	0.452	2.25	22	21.98	0.454	/
			1	0	Right Tilt	18700	0.150	-0.96	24	23.04	0.187	46
			50	0	Right Tilt	18700	0.106	2.16	22	21.98	0.106	/
			1	0	Left Cheek	18700	0.282	-0.62	24	23.04	0.352	47
			50	0	Left Cheek	18700	0.143	0.72	22	21.98	0.144	/
			1	0	Left Tilt	18700	0.082	-1.22	24	23.04	0.102	48
			50	0	Left Tilt	18700	0.101	0.23	22	21.98	0.101	/
LTE Band 4	20M	QPSK	1	99	Right Cheek	20175	0.238	-2.95	23	22.67	0.257	54
			50	24	Right Cheek	20300	0.187	2.36	23	22.58	0.206	/
			1	99	Right Tilt	20175	0.112	-2.04	23	22.67	0.121	55
			50	24	Right Tilt	20300	0.091	0.35	23	22.58	0.100	/
			1	99	Left Cheek	20175	0.192	-4.15	23	22.67	0.207	56
			50	24	Left Cheek	20300	0.165	-1.05	23	22.58	0.182	/
			1	99	Left Tilt	20175	0.062	-2.63	23	22.67	0.067	57
			50	24	Left Tilt	20300	0.053	0.12	23	22.58	0.058	/
LTE Band 5	10M	QPSK	1	49	Right Cheek	20525	0.125	-2.52	24	23.65	0.135	63
			25	24	Right Cheek	20600	0.079	-1.53	23	22.24	0.094	/
			1	49	Right Tilt	20525	0.111	-2.79	24	23.65	0.120	64
			25	24	Right Tilt	20600	0.056	0.27	23	22.24	0.067	/
			1	49	Left Cheek	20525	0.168	-2.75	24	23.65	0.182	65
			25	24	Left Cheek	20600	0.088	0.02	23	22.24	0.105	/
			1	49	Left Tilt	20525	0.107	-1.65	24	23.65	0.116	66
			25	24	Left Tilt	20600	0.052	0.96	23	22.24	0.062	/
LTE Band 7	20M	QPSK	1	0	Right Cheek	20850	0.055	0	22.2	22.05	0.057	72
			50	0	Right Cheek	20850	0.041	-0.20	21	20.93	0.042	
			1	0	Right Tilt	20850	0.028	-2.75	22.2	22.05	0.029	73
			50	0	Right Tilt	20850	0.019	0.13	21	20.93	0.019	/
			1	0	Left Cheek	20850	0.066	0	22.2	22.05	0.068	74
			50	0	Left Cheek	20850	0.060	0.37	21	20.93	0.061	/
			1	0	Left Tilt	20850	0.016	-3.35	22.2	22.05	0.017	75
			50	0	Left Tilt	20850	0.011	-4.61	21	20.93	0.011	/
LTE Band 17	10M	QPSK	1	0	Right Cheek	23780	0.346	-3.33	23	22.49	0.389	81
			25	0	Right Cheek	23780	0.310	-1.06	22	21.47	0.350	/
			1	0	Right Tilt	23780	0.157	-0.31	23	22.49	0.177	82
			25	0	Right Tilt	23780	0.144	-2.04	22	21.47	0.163	/
			1	0	Left Cheek	23780	0.340	2.48	23	22.49	0.382	83
			25	0	Left Cheek	23780	0.305	-0.25	22	21.47	0.345	/
			1	0	Left Tilt	23780	0.155	1.78	23	22.49	0.174	84
			25	0	Left Tilt	23780	0.139	-1.22	22	21.47	0.157	/

12.2 Body SAR And Hotspot

Band	Mode	Test Position	Channel	Result 1g (W/Kg)	Power Drift(%)	Max. Turn-up Power(dBm)	Meas. Output Power(dBm)	Scaled SAR (W/Kg)	Meas. No.
GSM 850	GPRS Data-4 Slot (hotspot)	Front side	CH 190	0.435	-0.31	29	28.80	0.456	5
		Back side	CH 190	0.327	-1.59	29	28.80	0.342	6
		Left side	CH 190	0.121	-2.55	29	28.80	0.127	7
		Right side	CH 190	0.341	-2.32	29	28.80	0.357	8
		Bottom side	CH 190	0.164	-0.31	29	28.80	0.172	9
GSM 1900	EGPRS Data-4 Slot (hotspot)	Front side	CH 512	0.495	2.89	26	25.96	0.500	14
		Back side	CH 512	0.434	0.47	26	25.96	0.438	15
		Left side	CH 661	0.395	-1.09	26	25.96	0.399	16
		Right side	CH 810	0.283	-0.54	26	25.96	0.286	17
		Bottom side	CH 512	0.252	-3.86	26	25.96	0.254	18
WCDMA II	RMC (body-worn and hotspot)	Front side	CH 9537	0.426	-0.43	22	21.80	0.446	23
		Back side	CH 9263	0.391	-2.37	22	21.80	0.409	24
		Left side	CH 9400	0.114	-0.86	22	21.80	0.119	25
		Right side	CH 9537	0.339	-1.09	22	21.80	0.355	26
		Bottom side	CH 9537	0.226	-0.97	22	21.80	0.237	27
WCDMA V	RMC (body-worn and hotspot)	Front side	CH4132	0.185	-1.72	23	22.43	0.211	32
		Back side	CH4132	0.143	-3.10	23	22.43	0.163	33
		Left side	CH4132	0.149	-1.69	23	22.43	0.170	34
		Right side	CH4132	0.213	-0.39	23	22.43	0.243	35
		Bottom side	CH4132	0.083	-0.03	23	22.43	0.095	36

Band	Mode	Test Position	Channel	Result 1g (W/Kg)	Power Drift(%)	Max. Turn-up Power(dBm)	Meas. Output Power(dBm)	Duty cycle(%)	Scaled SAR (W/Kg)	Meas. No.
WIFI	802.11b	Front side	CH 6	0.041	2.96	13	12.97	100	0.041	41
		Back side	CH 6	0.161	2.73	13	12.97	100	0.162	42
		Left side	CH 6	0.141	-2.27	13	12.97	100	0.142	43
		Bottom side	CH 6	0.048	-0.41	13	12.97	100	0.048	44

Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Ch.	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	0	Front	18700	0.389	-0.81	24	23.04	0.485	49
			50	0	Front	18700	0.361	0.11	22	21.98	0.363	/
			1	0	Back	18700	0.360	-0.43	24	23.04	0.449	50
			50	0	Back	18700	0.342	-4.18	22	21.98	0.344	/
			1	0	Left Side	18700	0.132	-2.79	24	23.04	0.165	51
			50	0	Left Side	18700	0.124	-1.53	22	21.98	0.125	/
			1	0	Right Side	18700	0.363	-4.67	24	23.04	0.453	52
			50	0	Right Side	18700	0.333	-3.22	22	21.98	0.335	/
			1	0	Bottom Side	18700	0.157	-1.43	24	23.04	0.196	53
			50	0	Bottom Side	18700	0.136	0.91	22	21.98	0.137	/



LTE Band 4	20M	QPSK	1	99	Front	20175	0.385	-0.47	23	22.67	0.415	58
			50	24	Front	20300	0.367	1.30	23	22.58	0.404	/
			1	99	Back	20175	0.290	-2.50	23	22.67	0.313	59
			50	24	Back	20300	0.240	-0.27	23	22.58	0.264	/
			1	99	Left Side	20175	0.296	-2.39	23	22.67	0.319	60
			50	24	Left Side	20300	0.219	-2.19	23	22.58	0.241	/
			1	99	Right Side	20175	0.185	-1.23	23	22.67	0.200	61
			50	24	Right Side	20300	0.167	-0.50	23	22.58	0.184	/
			1	99	Bottom Side	20175	0.140	-1.46	23	22.67	0.151	62
			50	24	Bottom Side	20300	0.136	-0.74	23	22.58	0.150	/
LTE Band 5	10M	QPSK	1	49	Front	20525	0.180	-1.11	24	23.65	0.195	67
			25	24	Front	20600	0.147	-0.66	23	22.24	0.175	/
			1	49	Back	20525	0.143	-1.60	24	23.65	0.155	68
			25	24	Back	20600	0.120	-0.07	23	22.24	0.143	/
			1	49	Left Side	20525	0.110	-0.62	24	23.65	0.119	69
			25	24	Left Side	20600	0.097	-0.53	23	22.24	0.116	/
			1	49	Right Side	20525	0.194	1.82	24	23.65	0.210	70
			25	24	Right Side	20600	0.170	0.74	23	22.24	0.203	/
			1	49	Bottom Side	20525	0.054	0.57	24	23.65	0.059	71
			25	24	Bottom Side	20600	0.043	-4.15	23	22.24	0.051	/
LTE Band 7	20M	QPSK	1	99	Front	20850	0.561	-4.19	22.2	22.05	0.581	76
			50	24	Front	20850	0.542	1.07	21	20.93	0.551	/
			1	99	Back	20850	1.016	-0.53	22.2	22.05	1.052	77
			1	99	Back	21100	0.830	-2.35	22.2	22.05	0.859	/
			1	99	Back	21350	0.806	-3.88	22.2	22.05	0.834	/
			50	24	Back	20850	0.679	-2.60	21	20.93	0.690	/
			100	0	Back	20850	0.541	2.55	21	20.80	0.566	/
			1	99	Left Side	20850	0.603	-3.41	22.2	22.05	0.624	78
			50	24	Left Side	20850	0.527	-2.68	21	20.93	0.536	/
			1	99	Right Side	20850	0.681	1.31	22.2	22.05	0.705	79
			50	24	Right Side	20850	0.567	1.71	21	20.93	0.576	/
			1	99	Bottom Side	20850	1.192	-0.73	22.2	22.05	1.234	80
			1	99	Bottom Side	21100	0.842	-3.25	22.2	22.05	0.872	/
			1	99	Bottom Side	21350	0.819	0.38	22.2	22.05	0.848	/
			50	24	Bottom Side	20850	0.686	-0.35	21	20.93	0.697	/
			100	0	Bottom Side	20850	0.561	-2.45	21	20.80	0.587	/
LTE Band 17	10M	QPSK	1	0	Front	23780	0.472	0.24	23	22.49	0.531	85
			25	0	Front	23780	0.397	0.04	22	21.47	0.449	/
			1	0	Back	23780	0.380	0.51	23	22.49	0.427	86
			25	0	Back	23780	0.342	0.72	22	21.47	0.386	/
			1	0	Left Side	23780	0.410	-2.21	23	22.49	0.461	87
			25	0	Left Side	23780	0.320	0.49	22	21.47	0.362	/
			1	0	Right Side	23780	0.430	-2.35	23	22.49	0.484	88
			25	0	Right Side	23780	0.304	-0.54	22	21.47	0.343	/
			1	0	Bottom Side	23780	0.092	0.57	23	22.49	0.103	89
			25	0	Bottom Side	23780	0.037	3.08	22	21.47	0.042	/

Note:

- Two card slot can't work at the same time.
- The test separation of all above table is 10mm.
- 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 **0.121** W/Kg for Head and **0.081** W/Kg for Body/Hotspot)

**Repeated SAR**

Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Ch.	Result 1g (W/Kg)	Power Drift(%)	Max. Turn-up Power(dBm)	Meas. Output Power(dBm)	Scaled SAR (W/Kg)	Meas. No.
LTE Band 7	20M	QPSK	1	99	Back	20850	0.931	-1.19	22.2	22.05	0.964	-
LTE Band 7	20M	QPSK	1	99	Bottom Side	20850	1.067	3.15	22.2	22.05	1.104	-

12.3 repeated SAR measurement

Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Ch.	Original Measured SAR 1g(mW/g)	1st Repeated SAR 1g	Ratio	Original Measured SAR 1g(mW/g)	2nd Repeated SAR 1g	Ratio
LTE Band 7	20M	QPSK	1	99	Back side	20850	1.016	0.964	0.95	-	-	-
LTE Band 7	20M	QPSK	1	99	Bottom Side	20850	1.192	1.067	0.90	-	-	-

Note:

1. Per KDB 865664 D01V01, for each frequency band, repeated SAR measurement is required only when the measured SAR is $\geq 0.8\text{W/Kg}$.
2. Per KDB 865664 D01V01, if the ratio of largest to smallest SAR for the original and first repeated measurement is ≤ 1.2 and the measured SAR $< 1.45\text{W/Kg}$, only one repeated measurement is required.
3. Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is $\geq 1.45\text{W/Kg}$.
4. The ratio is the difference in percentage between original and repeated measured SAR.

Simultaneous Multi-band Transmission Evaluation:

Application Simultaneous Transmission information:

Position	Simultaneous state
Head	1. GSM + WIFI
	2. GSM + Bluetooth
	3. WCDMA + WIFI
	4. WCDMA + Bluetooth
	5. LTE + WIFI
	6. LTE + Bluetooth
Body	1. GSM + WIFI
	2. GSM + Bluetooth
	3. WCDMA + WIFI
	4. WCDMA + Bluetooth
	5. LTE + WIFI
	6. LTE + Bluetooth

NOTE:

- Bluetooth and WIFI 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 D01 v05, BT SAR is excluded as below table.
- If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.
- For minimum test separation distance $\leq 50\text{mm}$, Bluetooth standalone SAR is excluded according to $[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f} (\text{GHz}) / x] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR
- The reported SAR summation is calculated based on the same configuration and test position.
- KDB 447498 / 4.3.2 (2) when standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:
 - $(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm}) \cdot [\sqrt{f} (\text{GHz}) / x] \text{ W/kg}$ for test separation distances $\leq 50 \text{ mm}$;
Where $x = 7.5$ for 1-g SAR, and $x = 18.75$ for 10-g SAR.
 - 0.4W/Kg for 1-g SAR and 1.0W/Kg for 10-g SAR, when the separation distance is $>50\text{mm}$.

Estimated SAR		Maximum Average Power		Antenna to user(mm)	Frequency(GHz)	Stand alone SAR(1g) [W/kg]
		dBm	mW			
BT	Head	0.5	1.122	5	2.480	0.047
	Body			10	2.480	0.024



Simultaneous Mode	Position	Mode	Max. 1-g SAR (W/kg)	1-g Sum SAR (W/kg)
GSM + WIFI	Head	GSM Voice	0.282	0.527
		WIFI	0.245	
	Body-worn	GSM DATA	0.500	0.662
		WIFI	0.162	
GSM + Bluetooth	Head	GSM Voice	0.282	0.329
		Bluetooth	0.047	
	Body-worn	GSM Voice	0.500	0.524
		Bluetooth	0.024	
WCDMA RMC+ WIFI	Head	WCDMA RMC	0.467	0.712
		WIFI	0.245	
	Body-worn Hotspot	WCDMA RMC	0.446	0.608
		WIFI	0.162	
WCDMA RMC+ Bluetooth	Head	WCDMA RMC	0.467	0.514
		Bluetooth	0.047	
	Body-worn Hotspot	WCDMA RMC	0.446	0.470
		Bluetooth	0.024	
LTE+ WIFI	Head	LTE RMC	0.712	0.957
		WIFI	0.245	
	Body-worn Hotspot	LTE RMC	1.234	1.396
		WIFI	0.162	
LTE+ Bluetooth	Head	LTE RMC	0.712	0.759
		Bluetooth	0.047	
	Body-worn Hotspot	LTE RMC	1.234	1.258
		Bluetooth	0.024	

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

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



13. Equipment List

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
750MHz Dipole	SATIMO	SID750	SN 30/14 DIP0G750-331	2014.09.01	2017.08.31
835MHz Dipole	SATIMO	SID835	SN 30/14 DIP0G835-332	2014.09.01	2017.08.31
1800MHz Dipole	SATIMO	SID1800	SN 30/14 DIP1G800-329	2014.09.01	2017.08.31
1900MHz Dipole	SATIMO	SID1900	SN 30/14 DIP1G900-333	2014.09.01	2017.08.31
2450MHz Dipole	SATIMO	SID2450	SN 30/14 DIP2G450-335	2014.09.01	2017.08.31
2600MHz Dipole	SATIMO	SID2600	SN 30/14 DIP2G600-336	2014.09.01	2017.08.31
E-Field Probe	SATIMO	SSE5	SN 17/14 EP221	2015.09.01	2016.08.31
Antenna	SATIMO	ANTA3	SN 07/13 ZNTA52	2014.09.01	2017.08.31
Waveguide	SATIMO	SWG5500	SN 13/14 WGA32	2014.09.01	2017.08.31
Phantom1	SATIMO	SAM	SN 32/14 SAM115	N/A	N/A
Phantom2	SATIMO	SAM	SN 32/14 SAM116	N/A	N/A
SAR TEST BENCH	SATIMO	MOBILE PHONE POSITIONNING SYSTEM	SN 32/14 MSH97	N/A	N/A
SAR TEST BENCH	SATIMO	LAPTOP POSITIONNING SYSTEM	SN 32/14 LSH29	N/A	N/A
Dielectric Probe Kit	SATIMO	SCLMP	SN 32/14 OCPG52	2015.09.01	2016.08.31
Multi Meter	Keithley	Multi Meter 2000	4050073	2015.11.20	2016.11.19
Signal Generator	Agilent	N5182A	MY50140530	2015.11.18	2016.11.17
Power Meter	R&S	NRP	100510	2015.10.25	2016.10.24
Power Sensor	R&S	NRP-Z11	101919	2015.10.24	2016.10.23
Power Sensor	Anritsu	MA2411B	1027253	2015.10.10	2016.10.09
Power Sensor	R&S	NRP-Z21	103971	2015.12.12	2016.12.11
Network Analyzer	Agilent	5071C	EMY46103472	2015.12.12	2016.12.11
Attenuator 1	PE	PE7005-10	N/A	2015.10.25	2016.10.24
Attenuator 2	PE	PE7005-3	N/A	2015.10.24	2016.10.23
Attenuator 3	Woken	WK0602-XX	N/A	2015.12.12	2016.12.11
Dual Directional Coupler	Agilent	778D	50422	2015.11.18	2016.11.17

Appendix A. System Validation Plots

System Performance Check Data (750MHz Head)

Type: Phone measurement (Complete)

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

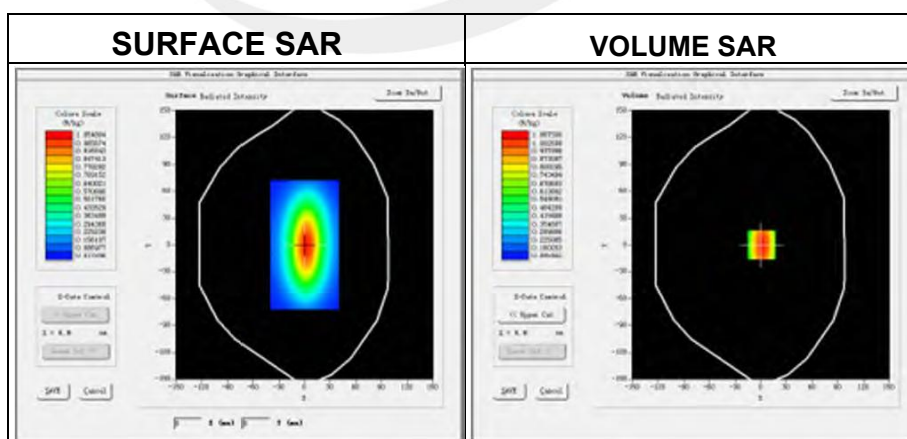
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2016-01-18

Measurement duration: 13 minutes 25 seconds

Experimental conditions

Phantom	Validation plane
Device Position	-
Band	750MHz
Channels	-
Signal	CW
Frequency (MHz)	750MHz
Relative permittivity (real part)	41.2
Relative permittivity	20.8
Conductivity (S/m)	0.91
Power drift (%)	2.35
Ambient Temperature:	22.7°C
Liquid Temperature:	22.3°C
ConvF:	4.53
Crest factor:	1:1

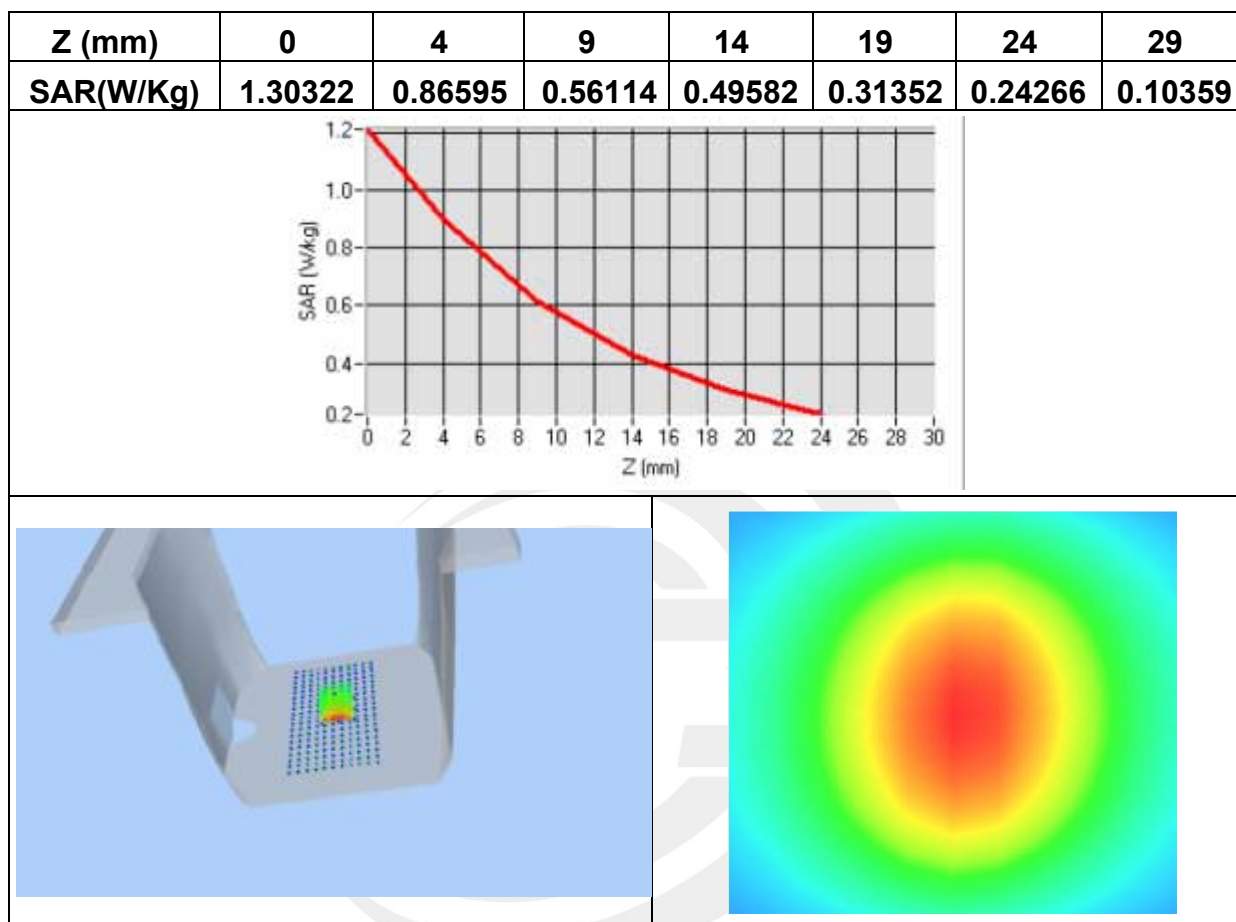




Maximum location: X=1.00, Y=0.00

SAR Peak: 1.20 W/kg

SAR 10g (W/Kg)	0.542685
SAR 1g (W/Kg)	0.837330

Z Axis Scan

**System Performance Check Data (750MHz Body)**

Type: Phone measurement (Complete)

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

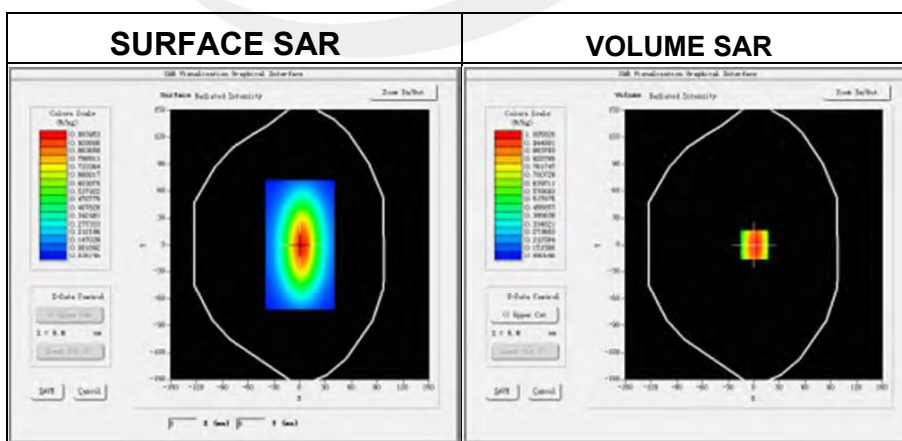
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2016-01-18

Measurement duration: 14 minutes 12 seconds

Experimental conditions.

Probe	
Phantom	Validation plane
Device Position	-
Band	750MHz
Channels	-
Signal	CW
Frequency (MHz)	750MHz
Relative permittivity (real part)	55.26
Relative permittivity	23.251187
Conductivity (S/m)	0.91
Power drift (%)	1.020000
Ambient Temperature:	22.7°C
Liquid Temperature:	22.3°C
ConvF:	4.70
Crest factor:	1:1



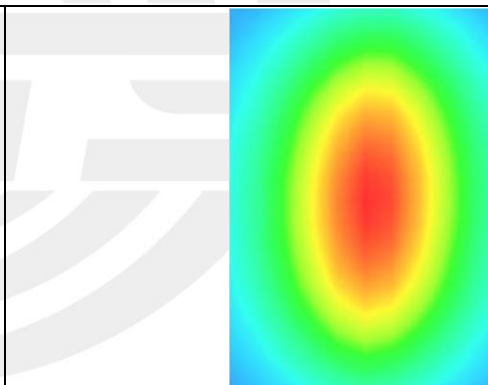
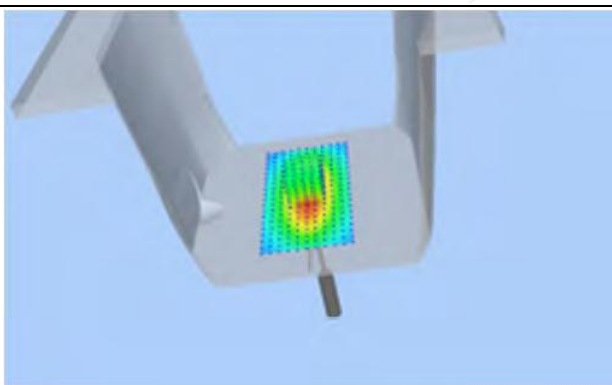
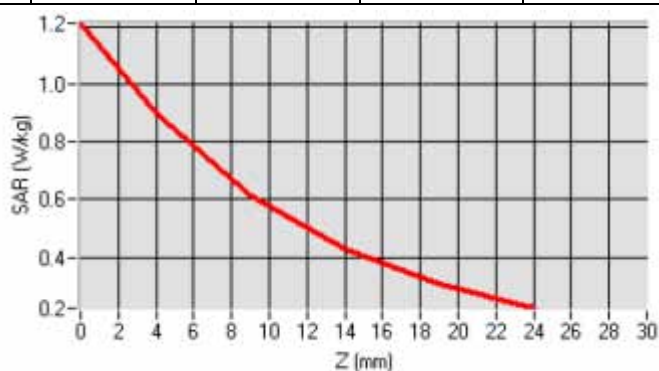
Maximum location: X=1.00, Y=0.00

SAR Peak: 1.33 W/kg

SAR 10g (W/Kg)	0.577345
SAR 1g (W/Kg)	0.859382

Z Axis Scan

Z (mm)	0	4	9	14	19	24	29
SAR(W/Kg)	1.30254	0.85658	0.56325	0.49362	0.31412	0.24366	0.10355



System Performance Check Data (835MHz Head)

Type: Phone measurement (Complete)

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

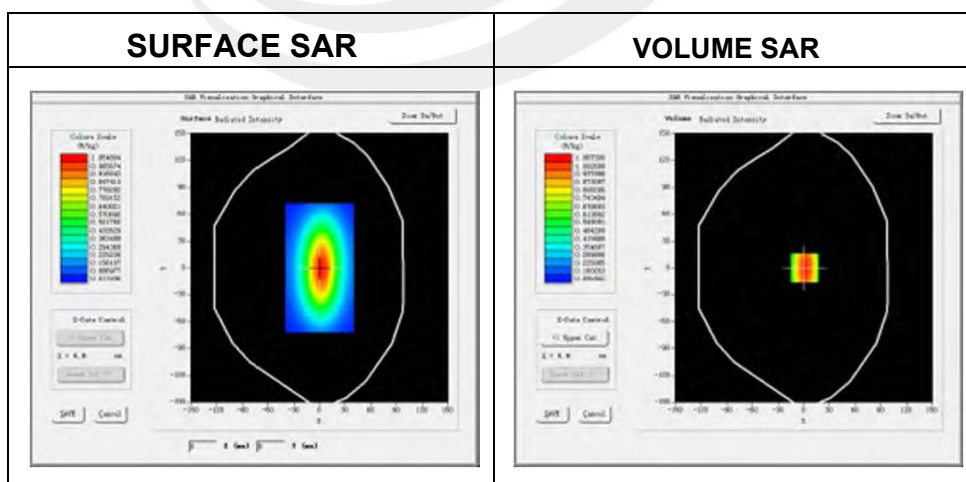
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2016-01-18

Measurement duration: 13 minutes 27 seconds

Experimental conditions

Phantom	Validation plane
Device Position	-
Band	835MHz
Channels	-
Signal	CW
Frequency (MHz)	835MHz
Relative permittivity (real part)	41.19
Relative permittivity	18.72
Conductivity (S/m)	0.89
Power drift (%)	0.45
Ambient Temperature:	22.7°C
Liquid Temperature:	22.3°C
ConvF:	4.83
Crest factor:	1:1



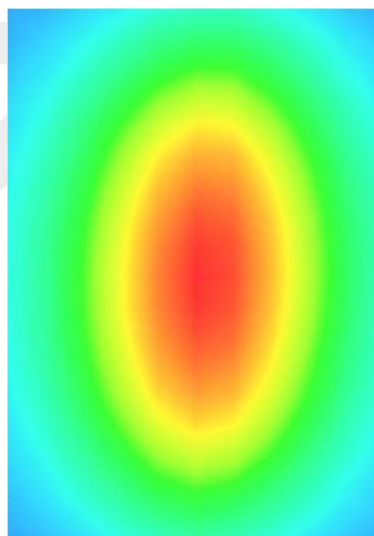
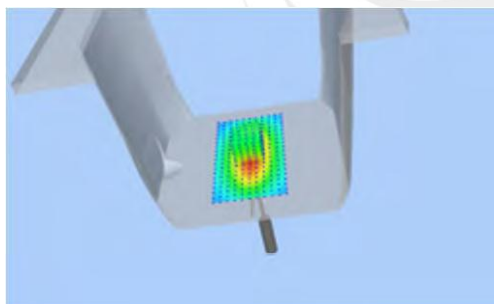
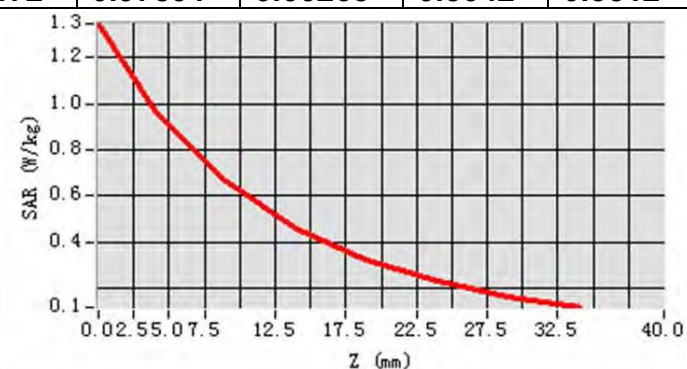
Maximum location: X=1.00, Y=0.00

SAR Peak: 1.40 W/kg

SAR 10g (W/Kg)	0.622547
SAR 1g (W/Kg)	0.936680

Z Axis Scan

Z (mm)	0	4	9	14	19	24	29
SAR(W/Kg)	1.3472	0.97891	0.66265	0.5042	0.3512	0.2505	0.11794



System Performance Check Data (835MHz Body)

Type: Phone measurement (Complete)

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

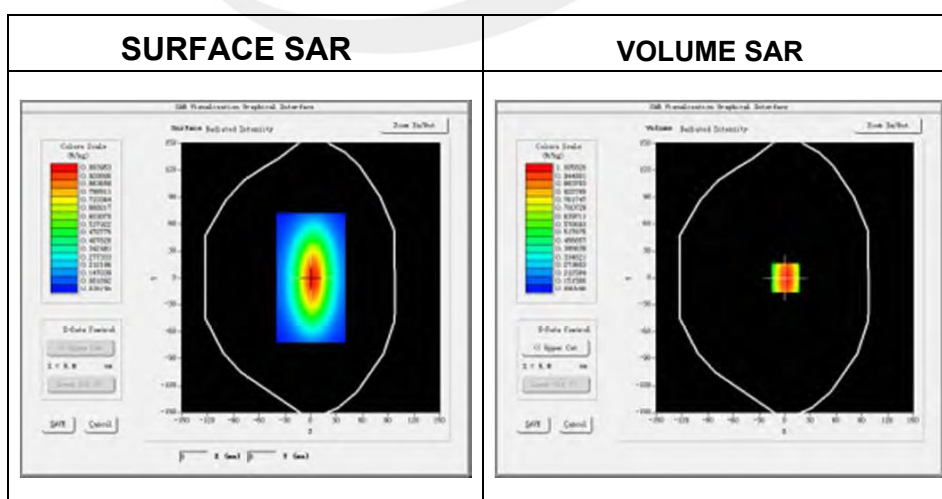
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2016-01-18

Measurement duration: 14 minutes 13 seconds

Experimental conditions.

Probe	
Phantom	Validation plane
Device Position	-
Band	835MHz
Channels	-
Signal	CW
Frequency (MHz)	835MHz
Relative permittivity (real part)	54.26
Relative permittivity	21.408187
Conductivity (S/m)	0.99
Power drift (%)	0.090000
Ambient Temperature:	22.7°C
Liquid Temperature:	22.3°C
ConvF:	5.02
Crest factor:	1:1

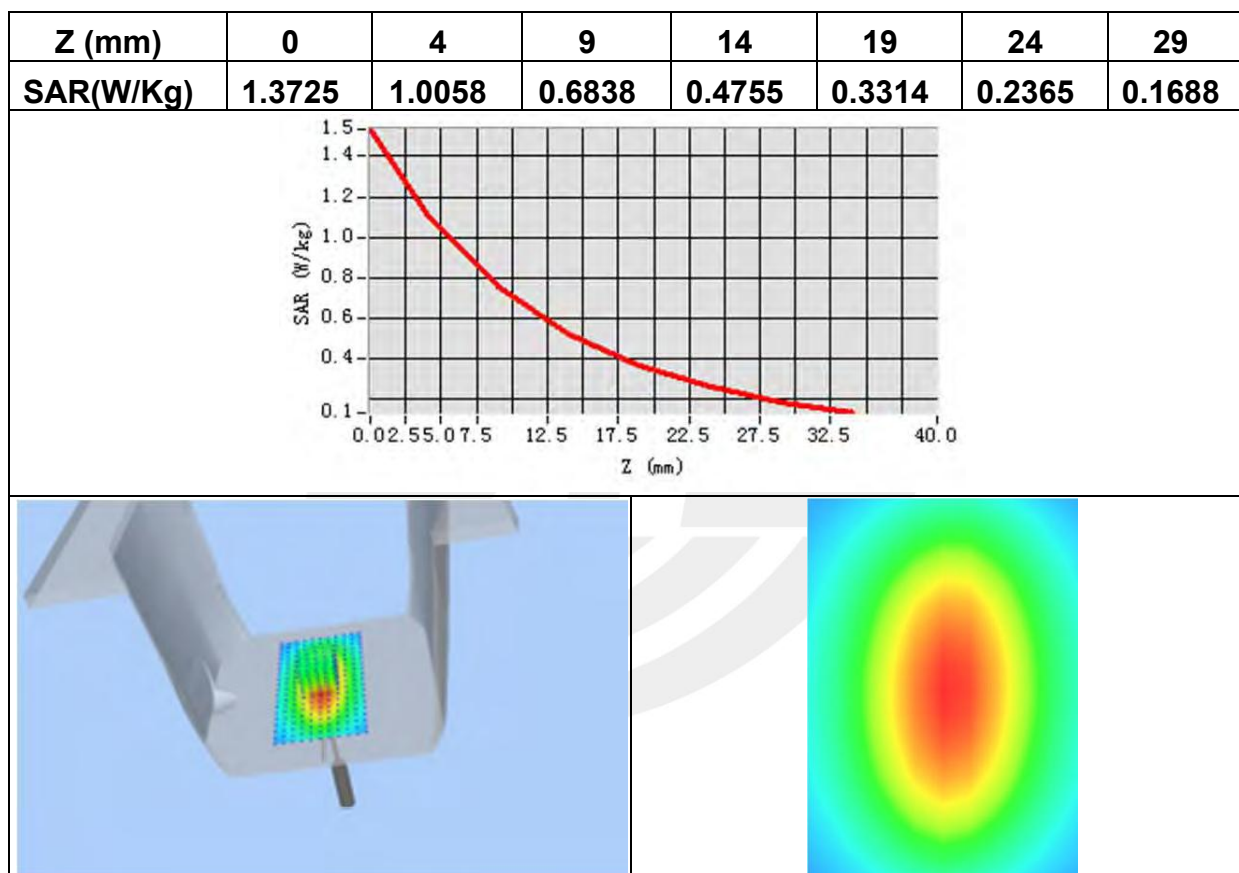


Maximum location: X=1.00, Y=0.00

SAR Peak: 1.50 W/kg

SAR 10g (W/Kg)	0.697235
SAR 1g (W/Kg)	0.947146

Z Axis Scan



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

Type: Phone measurement (Complete)

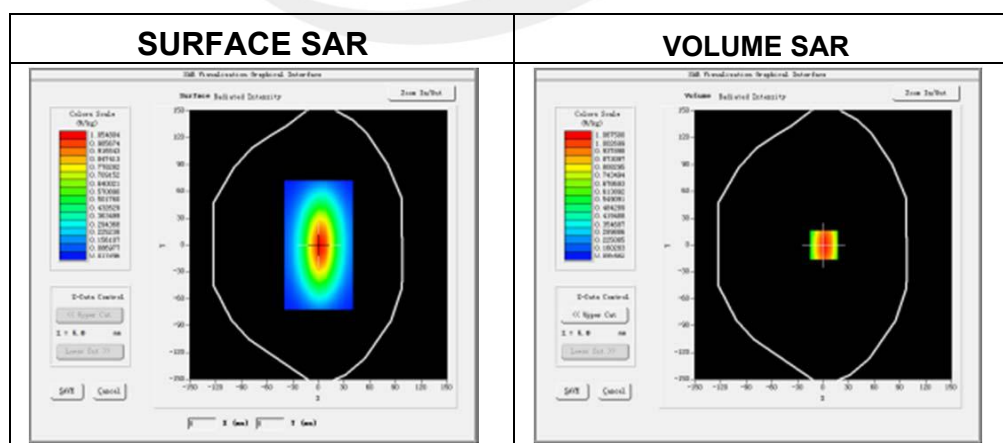
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2016-01-18

Experimental conditions.

Phantom	Validation plane
Device Position	-
Band	1800MHz
Channels	-
Signal	CW
Frequency (MHz)	1800MHz
Relative permittivity (real part)	40.20
Relative permittivity	14.096855
Conductivity (S/m)	1.308491
Power drift (%)	-1.390000
Ambient Temperature	22.7°C
Liquid Temperature	22.3°C
Probe	SN 17/14 EP221
ConvF	4.25
Crest factor:	1:1

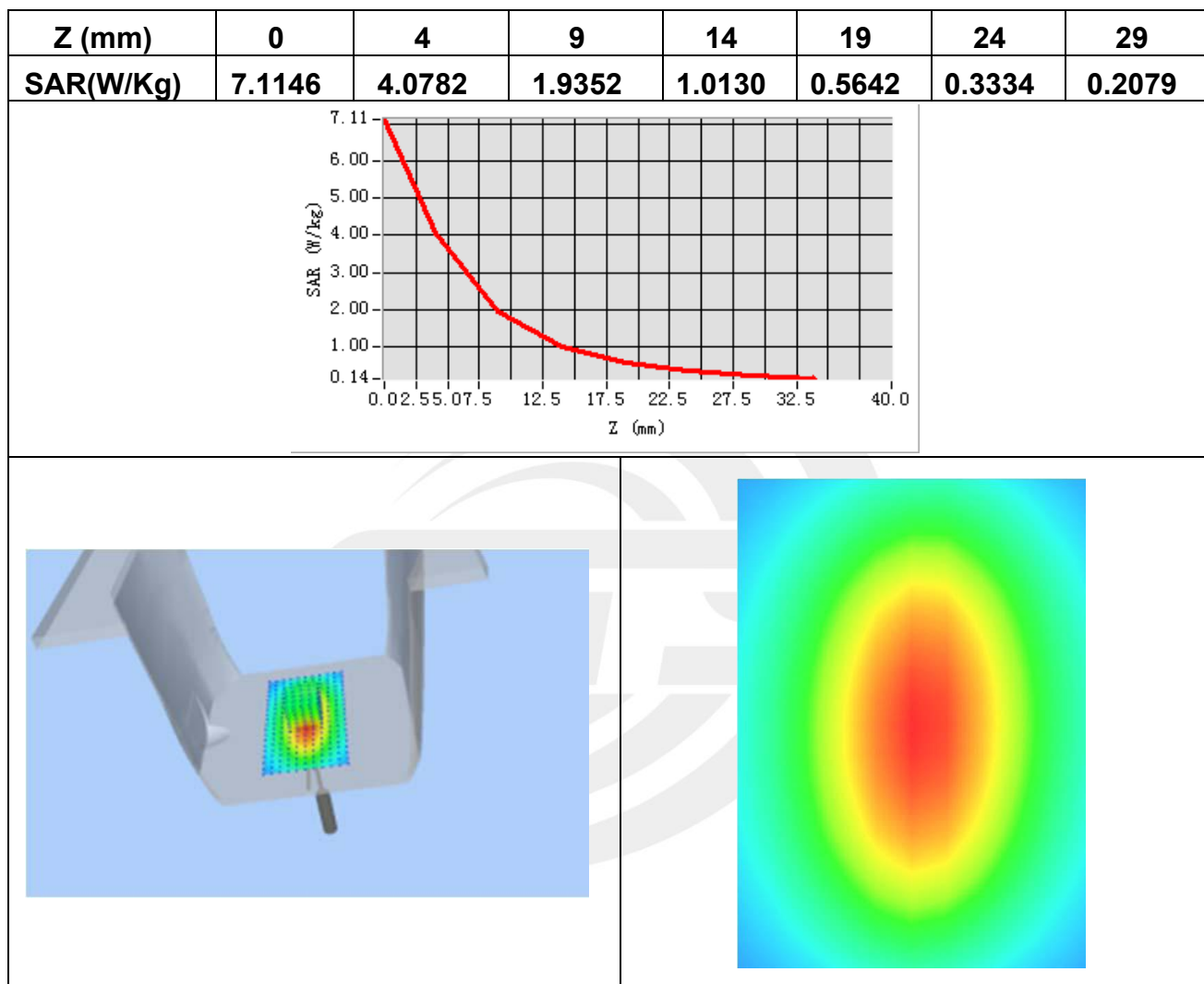




Maximum location: X=6.00, Y=0.00

SAR 10g (W/Kg)	1.986251
SAR 1g (W/Kg)	3.769481

Z Axis Scan



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

Type: Phone measurement (Complete)

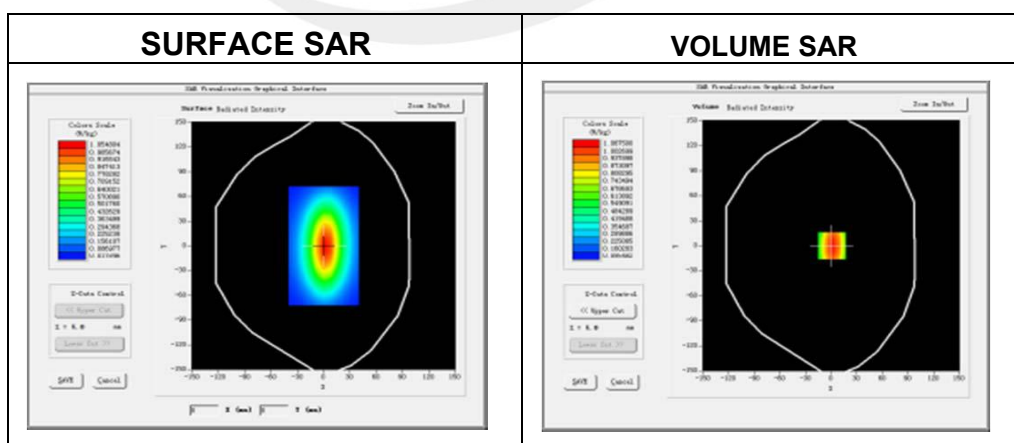
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2016-01-18

Experimental conditions.

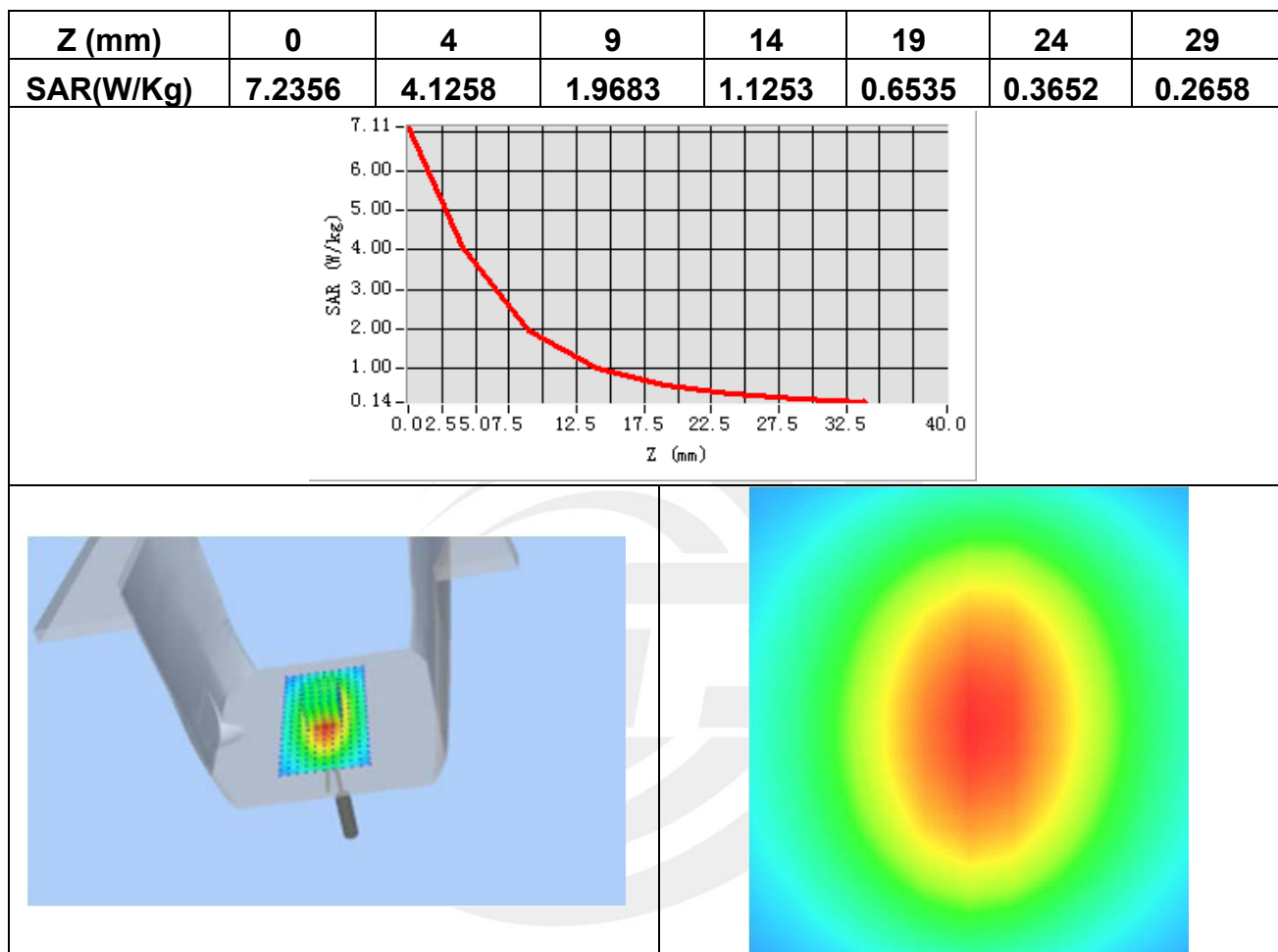
Phantom	Validation plane
Device Position	-
Band	1800MHz
Channels	-
Signal	CW
Frequency (MHz)	1800MHz
Relative permittivity (real part)	52.6
Relative permittivity	15.08356
Conductivity (S/m)	1.376582
Power drift (%)	2.351
Ambient Temperature	22.7°C
Liquid Temperature	22.3°C
Probe	SN 17/14 EP221
ConvF	4.34
Crest factor:	1:1





Maximum location: X=6.00, Y=1.00

SAR 10g (W/Kg)	1.98521
SAR 1g (W/Kg)	3.74972

Z Axis Scan

System Performance Check Data (1900MHz Head)

Type: Phone measurement (Complete)

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

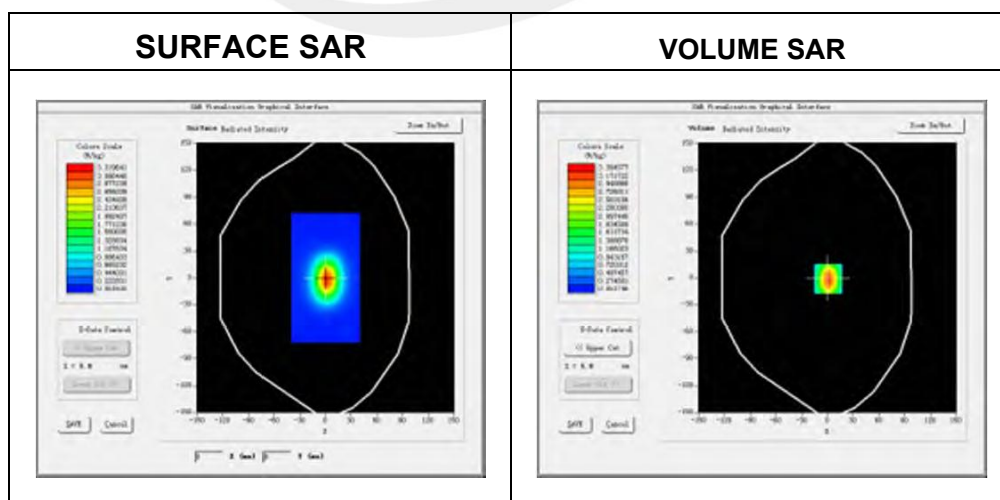
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2016-01-18

Measurement duration: 14 minutes 12 seconds

Experimental conditions.

Phantom	Validation plane
Device Position	-
Band	1900MHz
Channels	-
Signal	CW
Frequency (MHz)	1900MHz
Relative permittivity (real part)	39.44
Relative permittivity	13.26
Conductivity (S/m)	1.42
Power drift (%)	0.47
Ambient Temperature:	22.7°C
Liquid Temperature:	22.3°C
Probe	SN 17/14 EP221
ConvF:	4.71
Crest factor:	1:1



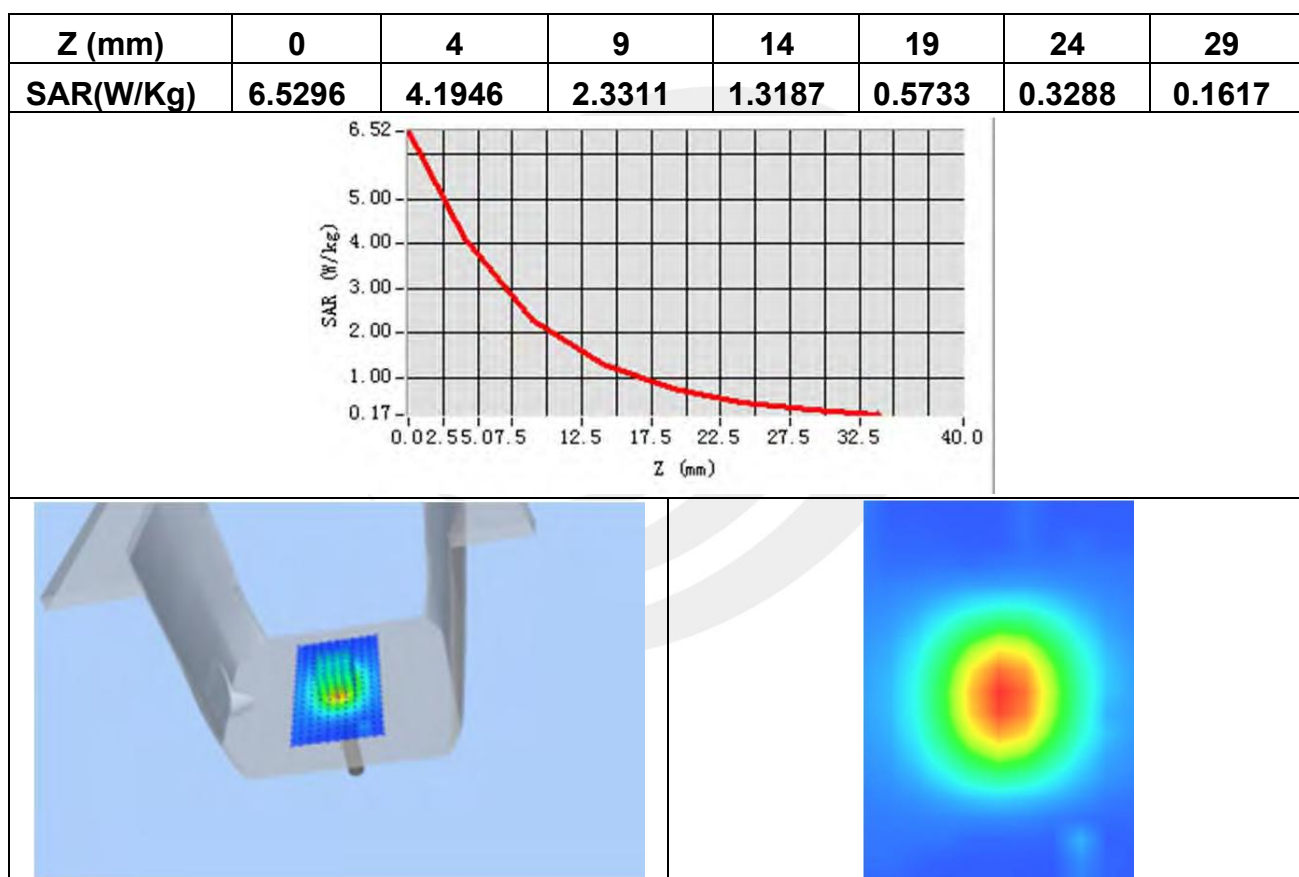


Maximum location: X=1.00, Y=0.00

SAR Peak: 5.20 W/kg

SAR 10g (W/Kg)	1.952295
SAR 1g (W/Kg)	3.884408

Z Axis Scan



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

Type: Phone measurement (Complete)

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

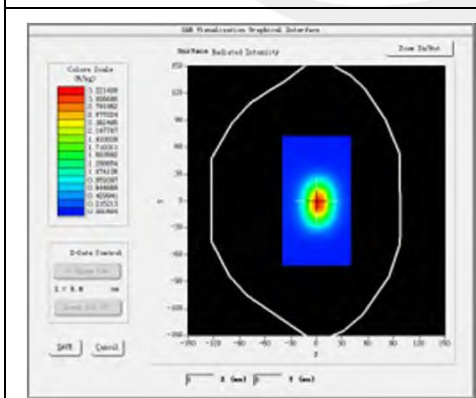
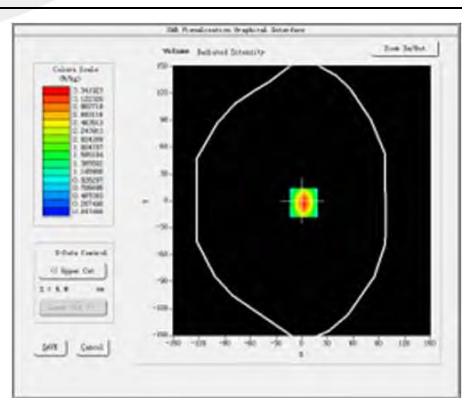
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2016-01-18

Measurement duration: 14 minutes 46 seconds

Experimental conditions.

Device Position	-
Band	1900MHz
Channels	-
Signal	CW
Frequency (MHz)	1900
Relative permittivity (real part)	52.78
Relative permittivity	12.87531
Conductivity (S/m)	1.55
Power drift (%)	0.37
Ambient Temperature:	22.7°C
Liquid Temperature:	22.3°C
Probe	SN 17/14 EP221
ConvF:	4.85
Crest factor:	1:1

SURFACE SAR**VOLUME SAR**

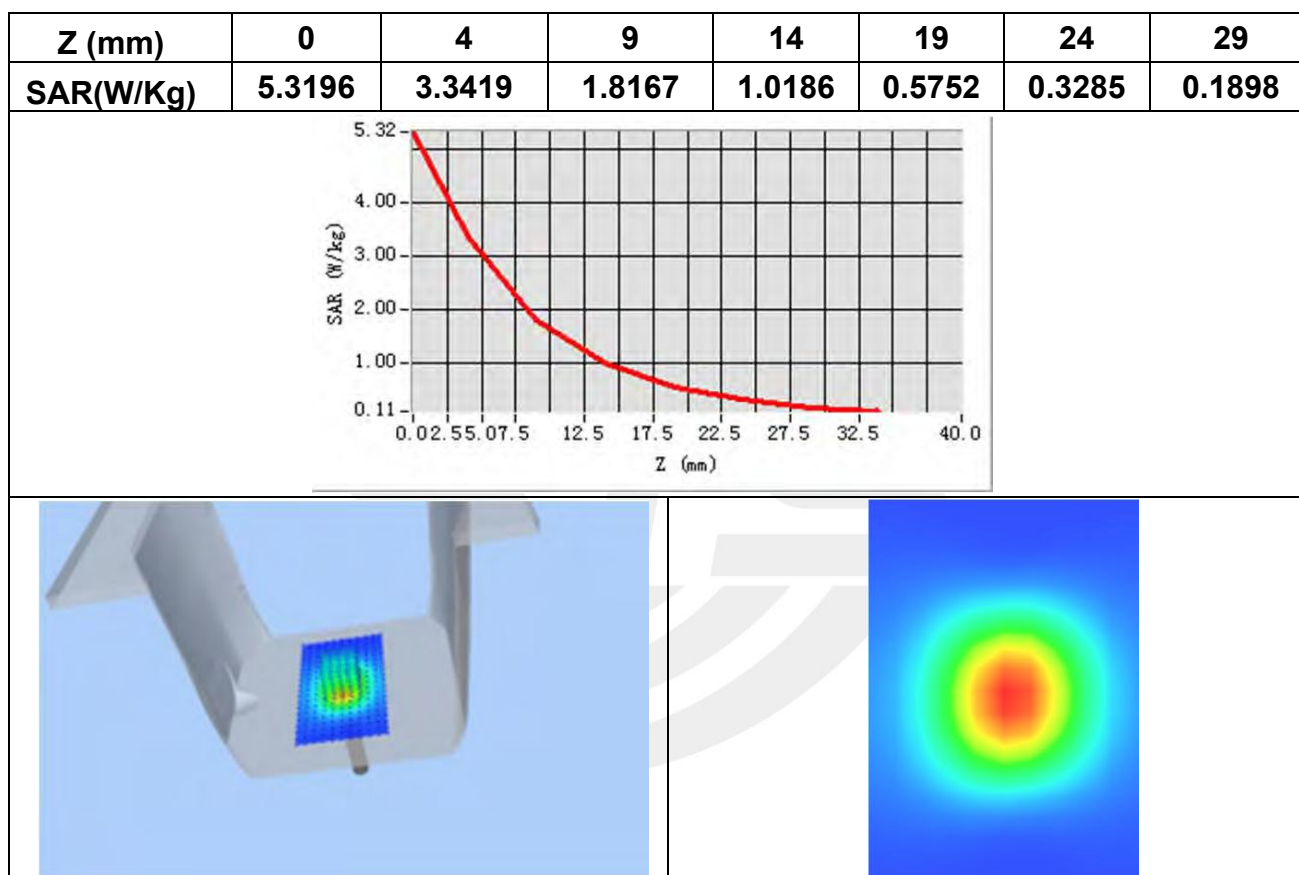


Maximum location: X=2.00, Y=2.00

SAR Peak: 5.10 W/kg

SAR 10g (W/Kg)	2.131097
SAR 1g (W/Kg)	4.123033

Z Axis Scan



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

Type: Phone measurement (Complete)

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

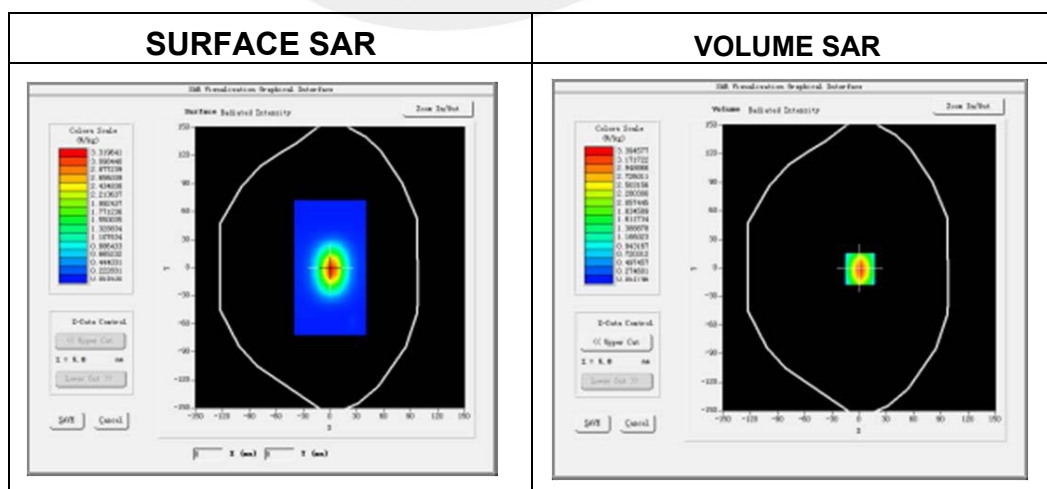
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2016-01-18

Measurement duration: 13 minutes 51seconds

Experimental conditions.

Device Position	Validation plane
Band	2450 MHz
Channels	-
Signal	CW
Frequency (MHz)	2450
Relative permittivity (real part)	39.38
Relative permittivity	12.930000
Conductivity (S/m)	1.77
Power drift (%)	-1.200000
Ambient Temperature	22.7°C
Liquid Temperature	22.3°C
Probe	SN 17/14 EP221
ConvF	4.11
Crest factor:	1:1

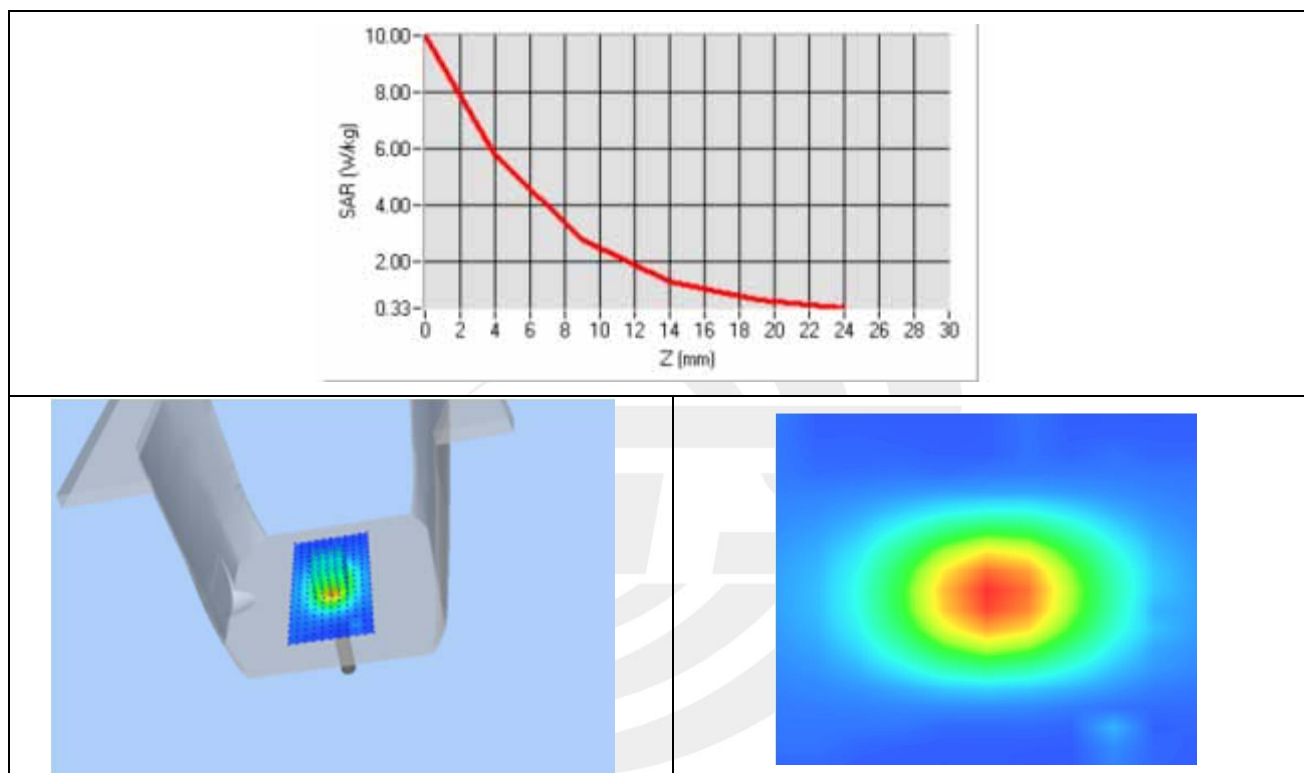




Maximum location: X=5.00, Y=6.00

SAR 10g (W/Kg)	2.615844
SAR 1g (W/Kg)	5.180807

Z Axis Scan



System Performance Check Data (2450MHz Body)

Type: Phone measurement (Complete)

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

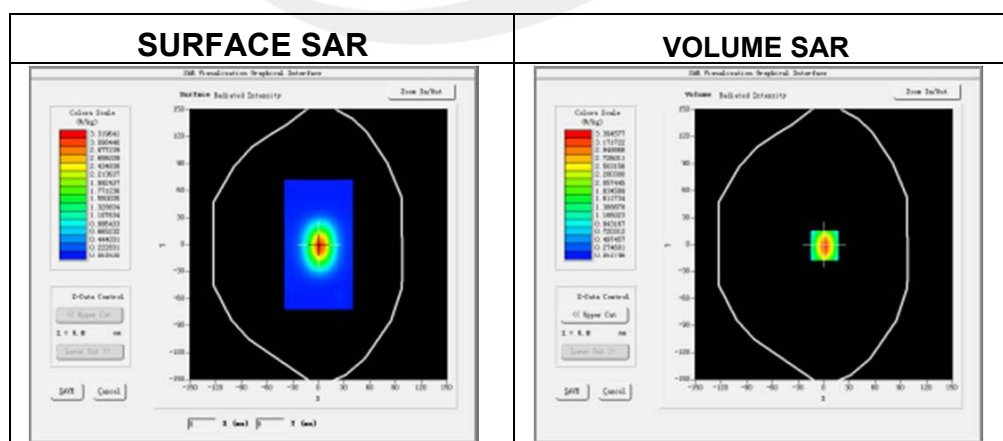
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2016-01-18

Measurement duration: 14 minutes 23 seconds

Experimental conditions.

Device Position	Validation plane
Band	2450 MHz
Channels	-
Signal	CW
Frequency (MHz)	2450
Relative permittivity (real part)	52.41
Relative permittivity	12.930000
Conductivity (S/m)	1.93
Power drift (%)	-1.200000
Ambient Temperature	22.7°C
Liquid Temperature	22.3°C
Probe	SN 17/14 EP221
ConvF	4.25
Crest factor:	1:1

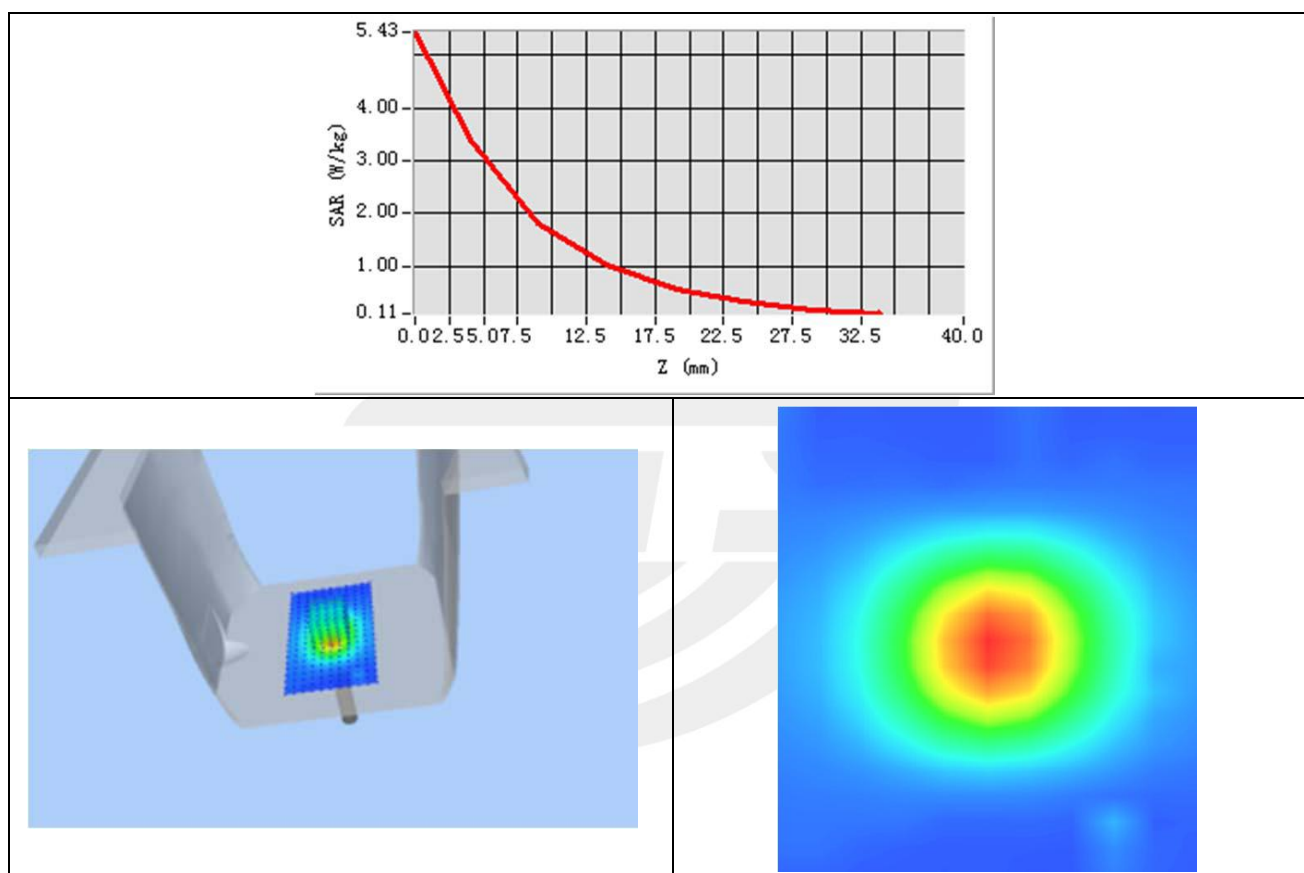




Maximum location: X=3.00, Y=1.00

SAR 10g (W/Kg)	2.556204
SAR 1g (W/Kg)	5.247109

Z Axis Scan



System Performance Check Data(2600MHz Head)

Type: Phone measurement (Complete)

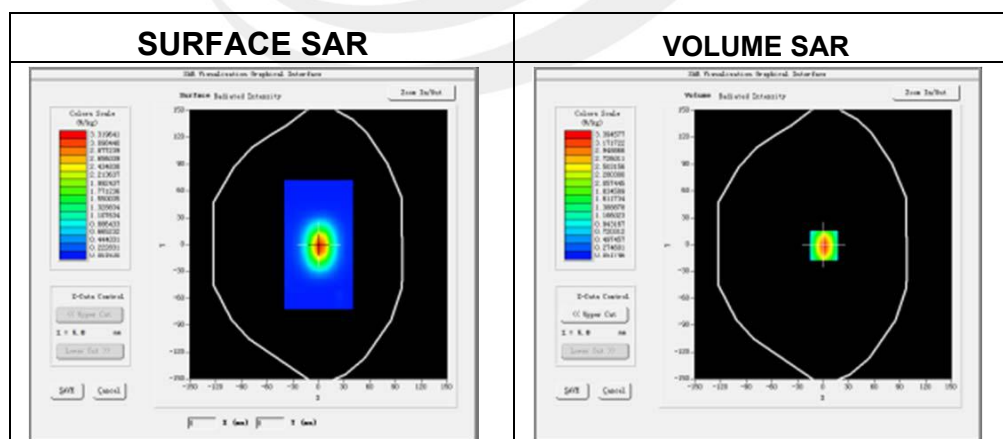
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2016-01-18

Experimental conditions.

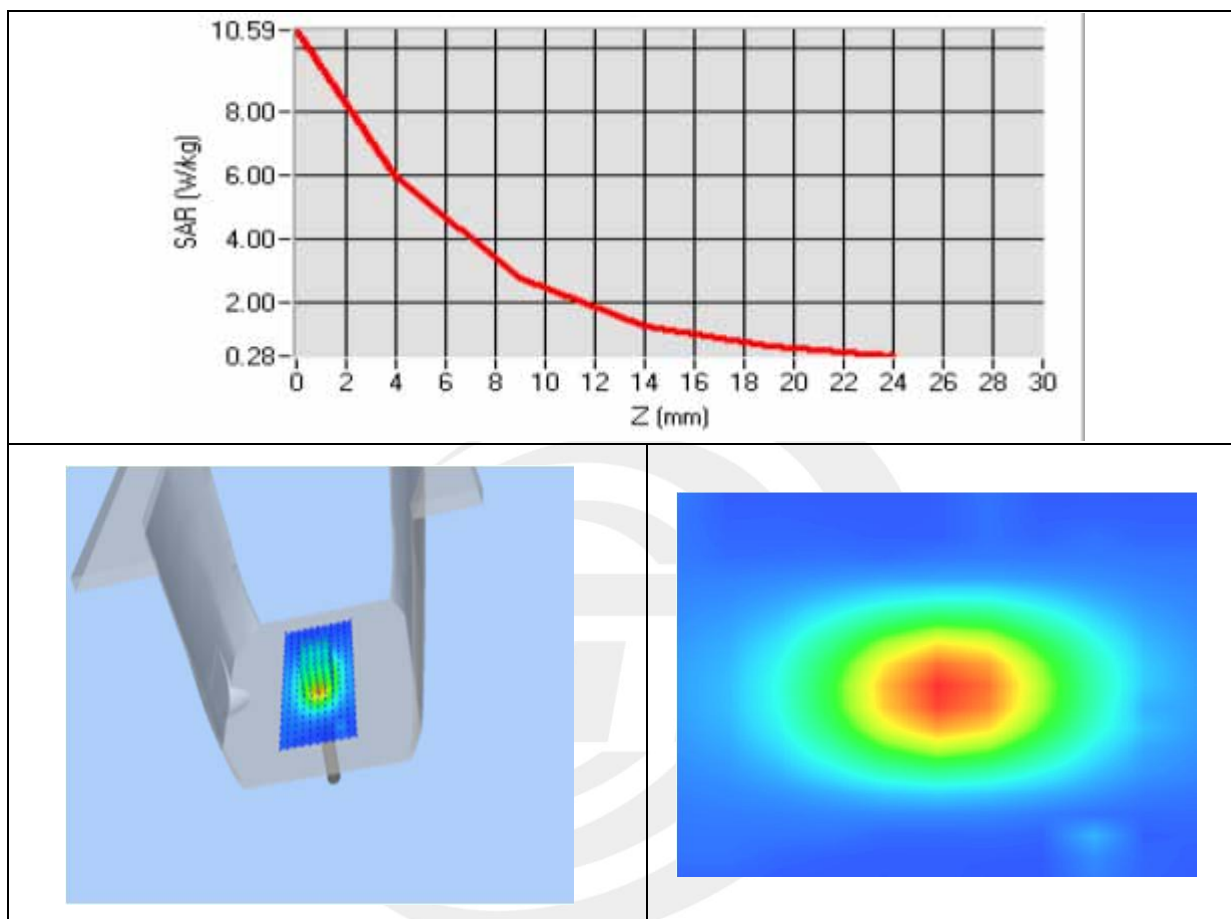
Device Position	Validation plane
Band	2600 MHz
Channels	-
Signal	CW
Frequency (MHz)	2600
Relative permittivity (real part)	38.52544
Relative permittivity	12.862300
Conductivity (S/m)	1.92000
Power drift (%)	-0.2600000
Ambient Temperature	22.7°C
Liquid Temperature	22.3°C
Probe	SN 17/14 EP221
ConvF	4.20
Crest factor:	1:1



Maximum location: X=3.00, Y=1.00

SAR 10g (W/Kg)	2.446070
SAR 1g (W/Kg)	5.494305

Z Axis Scan



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

Type: Phone measurement (Complete)

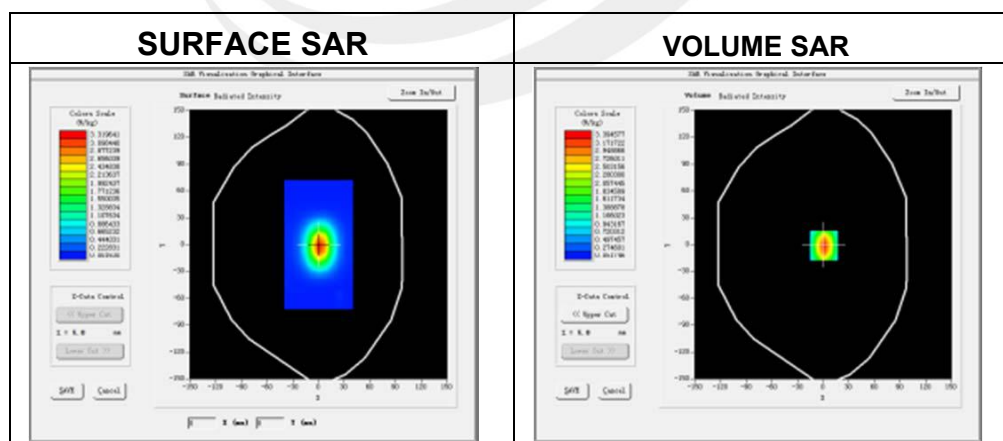
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2016-01-18

Experimental conditions.

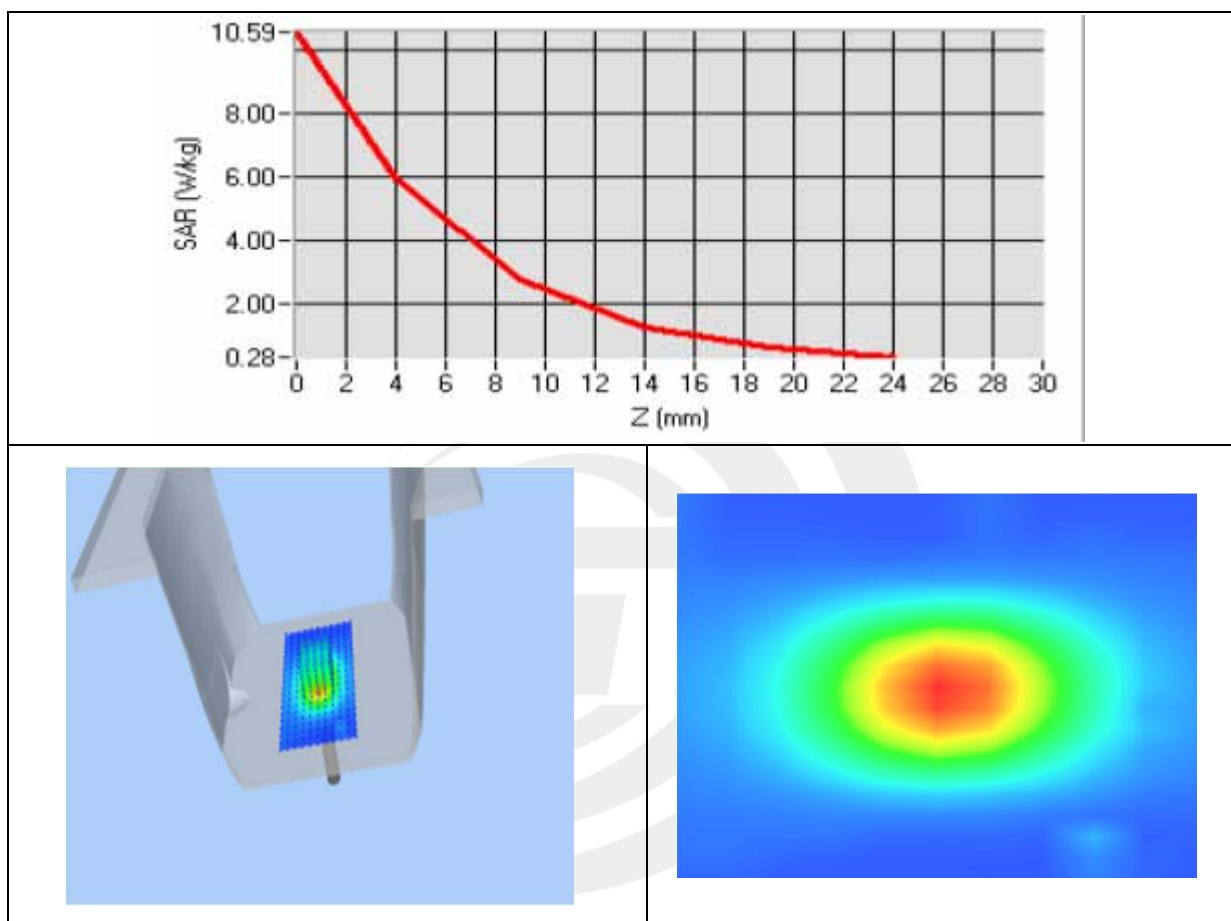
Device Position	Validation plane
Band	2600 MHz
Channels	-
Signal	CW
Frequency (MHz)	2600
Relative permittivity (real part)	52.36814
Relative permittivity	12.62485
Conductivity (S/m)	2.12000
Power drift (%)	2.31
Ambient Temperature	22.7°C
Liquid Temperature	22.3°C
Probe	SN 17/14 EP221
ConvF	4.32
Crest factor:	1:1



Maximum location: X=3.00, Y=1.00

SAR 10g (W/Kg)	2.389113
SAR 1g (W/Kg)	5.562207

Z Axis Scan



Appendix B. SAR Test Plots

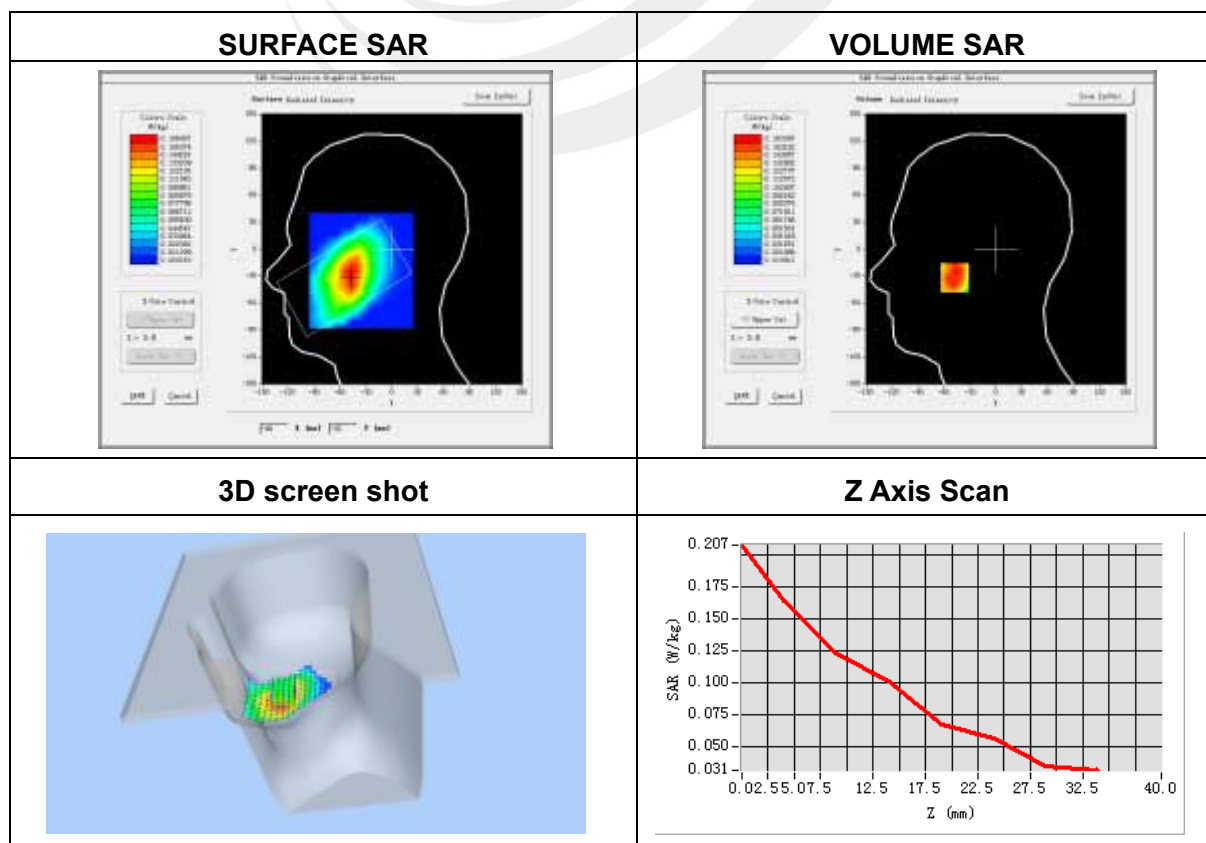
Plot 1: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.83
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Cheek
Band	GSM850
Channels	High
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	848.8
Relative permittivity (real part)	42.27
Conductivity (S/m)	0.91
Variation (%)	-3.59

Maximum location: X=-48.00, Y=-32.00

SAR Peak: 0.21 W/kg

SAR 10g (W/Kg)	0.112012
SAR 1g (W/Kg)	0.155053



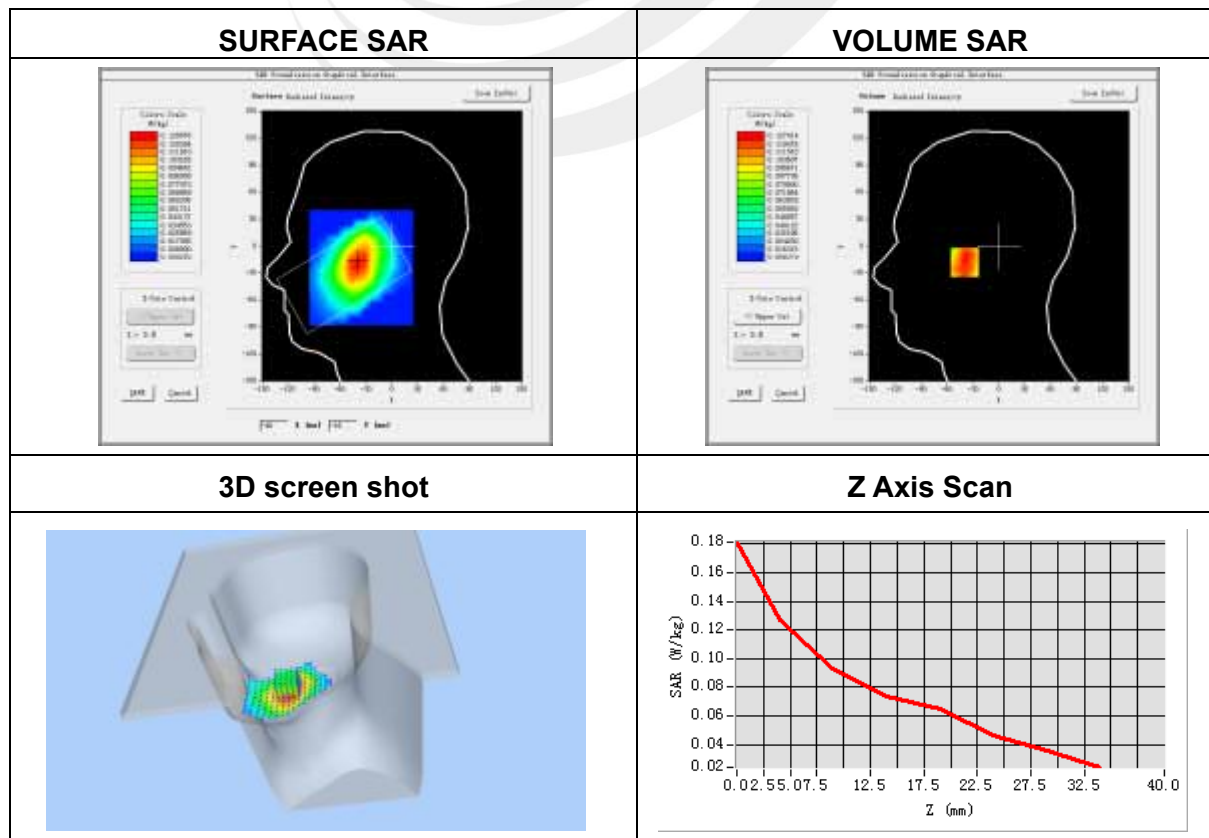
Plot 2: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.83
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Tilt
Band	GSM850
Channels	High
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	848.8
Relative permittivity (real part)	42.27
Conductivity (S/m)	0.91
Variation (%)	-3.53

Maximum location: X=-40.00, Y=-18.00

SAR Peak: 0.18 W/kg

SAR 10g (W/Kg)	0.087759
SAR 1g (W/Kg)	0.125903



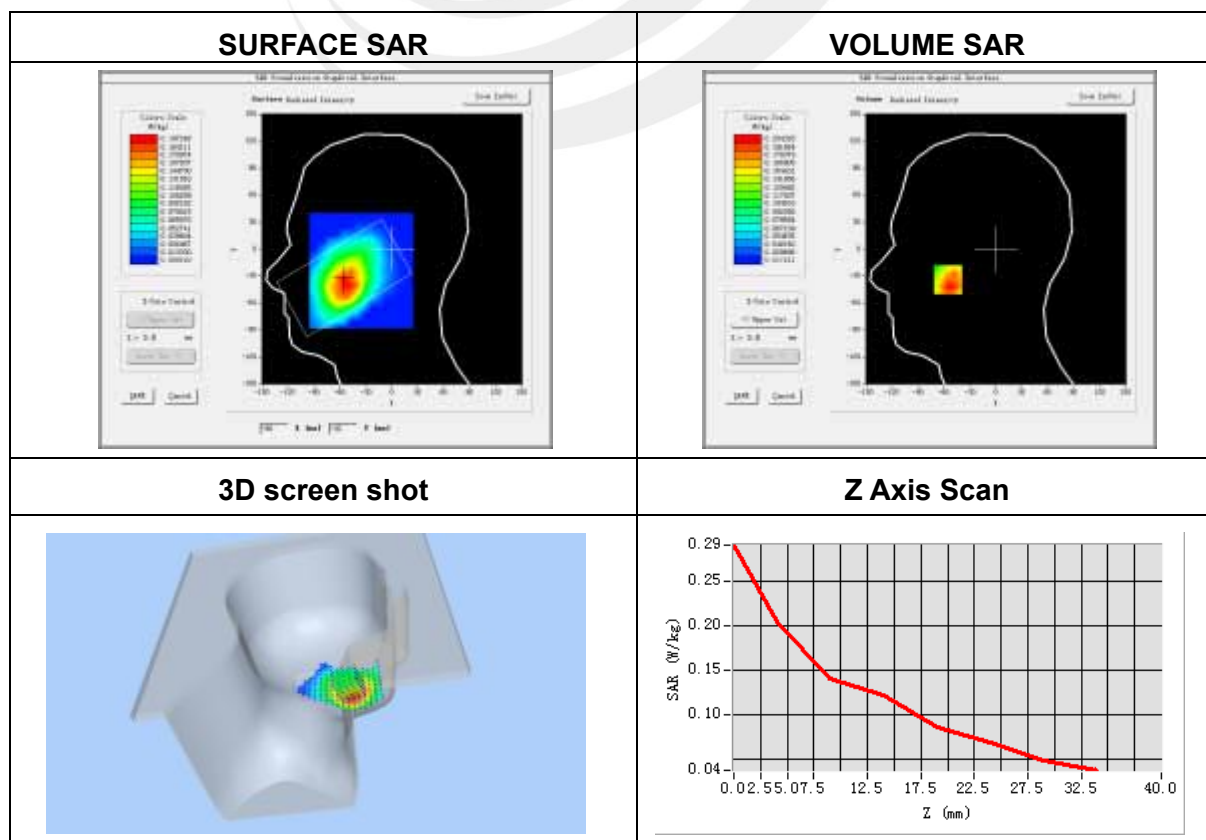
Plot 3: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.83
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Cheek
Band	GSM850
Channels	High
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	848.8
Relative permittivity (real part)	42.27
Conductivity (S/m)	0.91
Variation (%)	-3.17

Maximum location: X=-56.00, Y=-34.00

SAR Peak: 0.26 W/kg

SAR 10g (W/Kg)	0.136693
SAR 1g (W/Kg)	0.190559



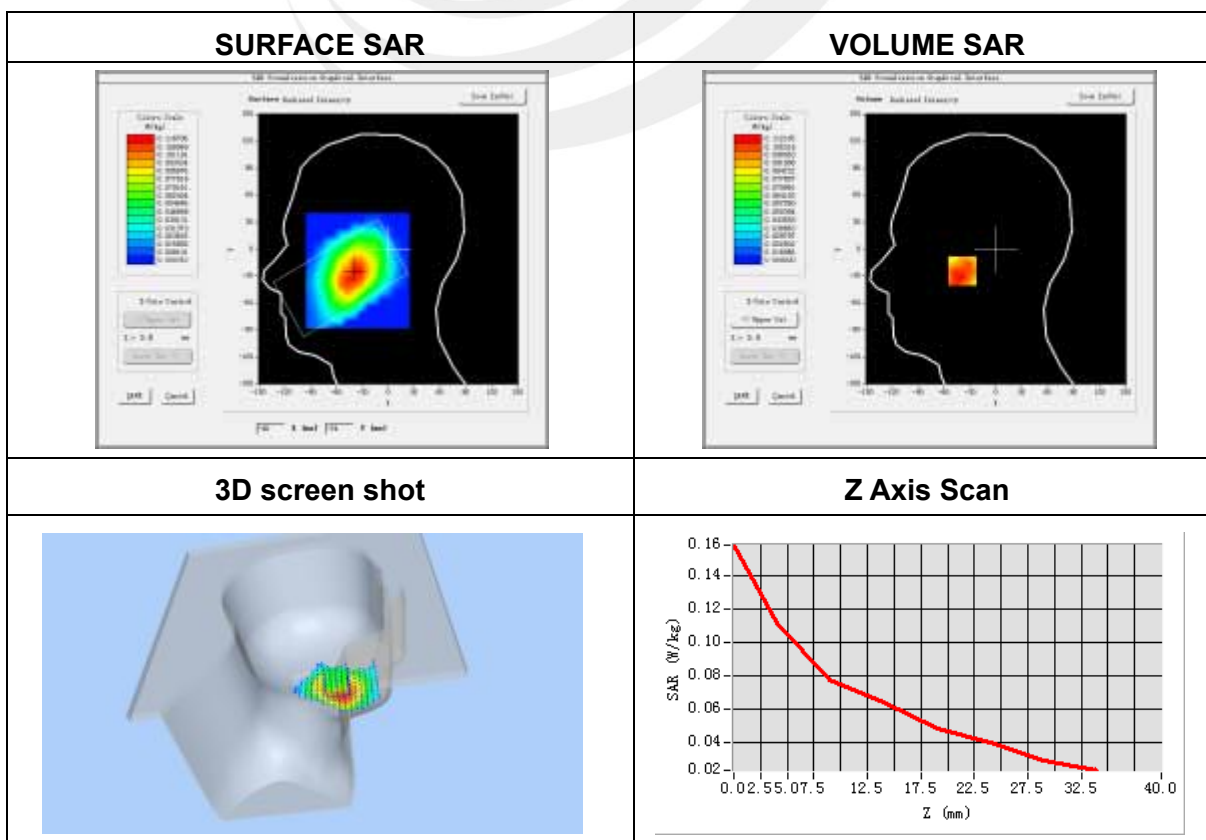
Plot 4: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.83
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Tilt
Band	GSM850
Channels	High
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	848.8
Relative permittivity (real part)	42.27
Conductivity (S/m)	0.91
Variation (%)	-4.14

Maximum location: X=-38.00, Y=-24.00

SAR Peak: 0.14 W/kg

SAR 10g (W/Kg)	0.079377
SAR 1g (W/Kg)	0.107350



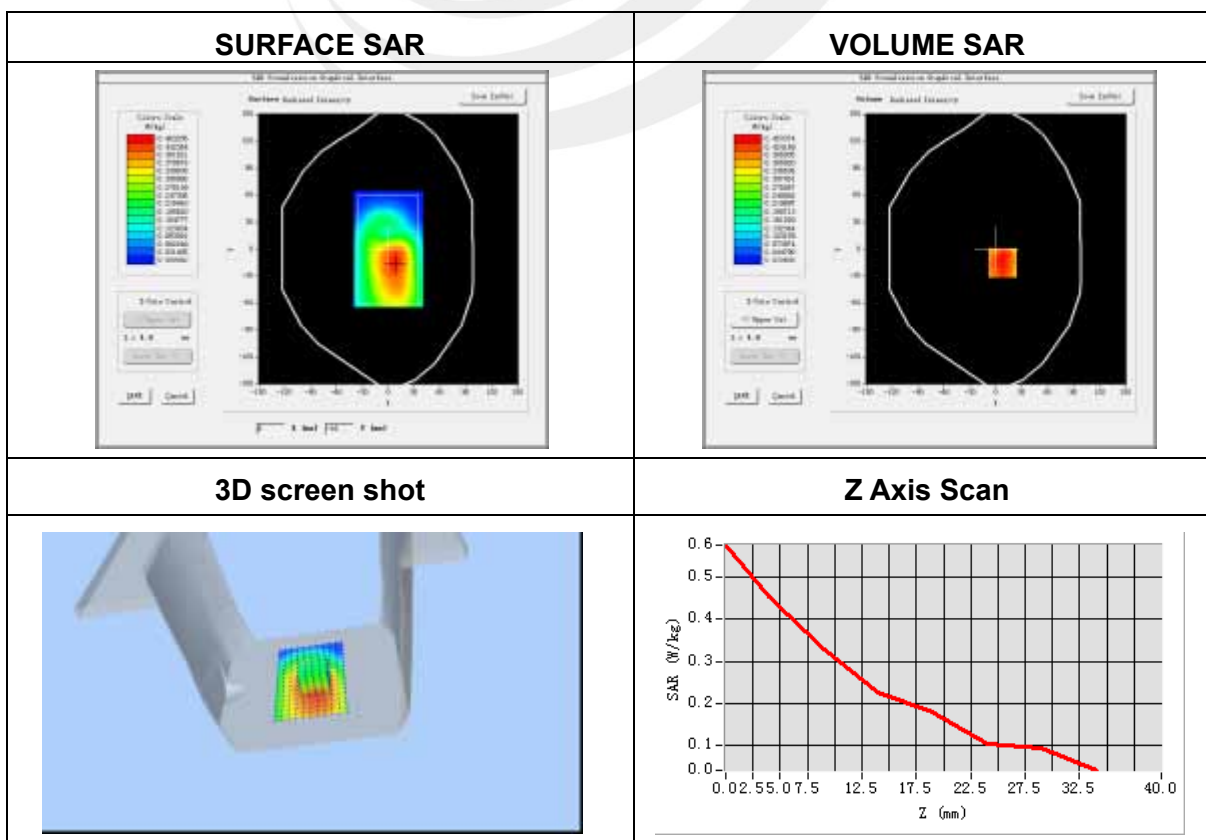
Plot 5: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	5.02
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Front
Band	EGPRS 850
Channels	High
Signal	Duty Cycle:2.0 (Crest factor:2.0)
Frequency (MHz)	848.8
Relative permittivity (real part)	42.27
Conductivity (S/m)	0.91
Variation (%)	-0.31

Maximum location: X=7.00, Y=-15.00

SAR Peak: 0.57 W/kg

SAR 10g (W/Kg)	0.307884
SAR 1g (W/Kg)	0.434951



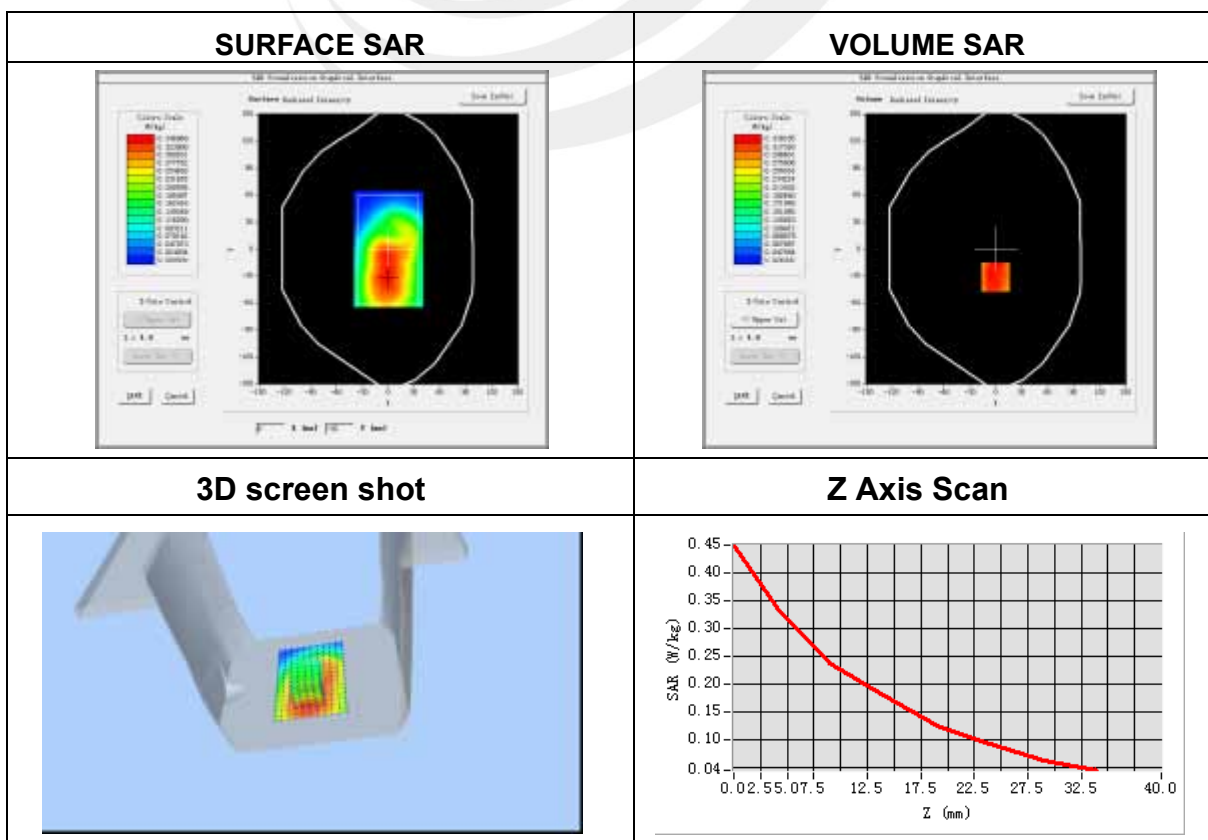
Plot 6: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	5.02
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Back
Band	EGPRS 850
Channels	High
Signal	Duty Cycle:2.0 (Crest factor:2.0)
Frequency (MHz)	848.8
Relative permittivity (real part)	42.27
Conductivity (S/m)	0.91
Variation (%)	-1.59

Maximum location: X=-1.00, Y=-31.00

SAR Peak: 0.44 W/kg

SAR 10g (W/Kg)	0.233383
SAR 1g (W/Kg)	0.326680



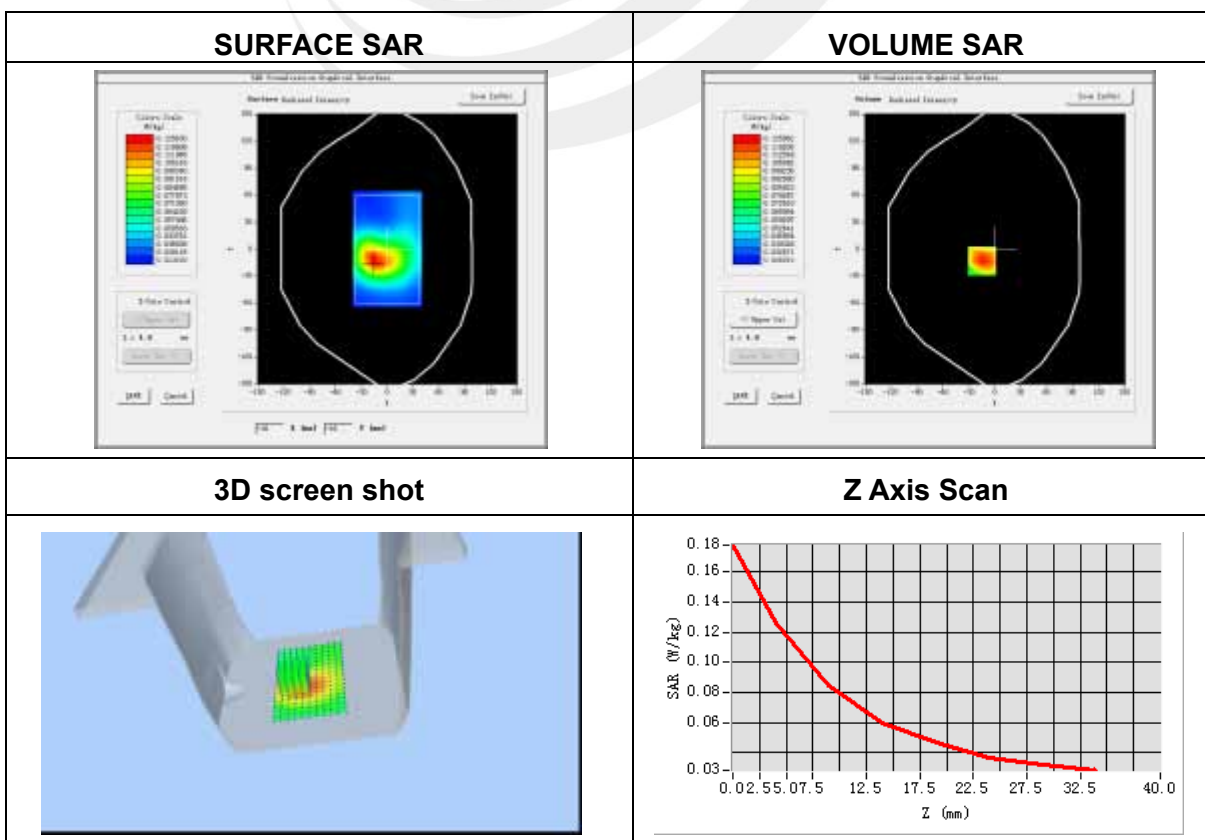
Plot 7: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	5.02
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body left side
Band	EGPRS 850
Channels	High
Signal	Duty Cycle:2.0 (Crest factor:2.0)
Frequency (MHz)	848.8
Relative permittivity (real part)	42.27
Conductivity (S/m)	0.91
Variation (%)	-2.55

Maximum location: X=-15.00, Y=-13.00

SAR Peak: 0.18 W/kg

SAR 10g (W/Kg)	0.080495
SAR 1g (W/Kg)	0.121013



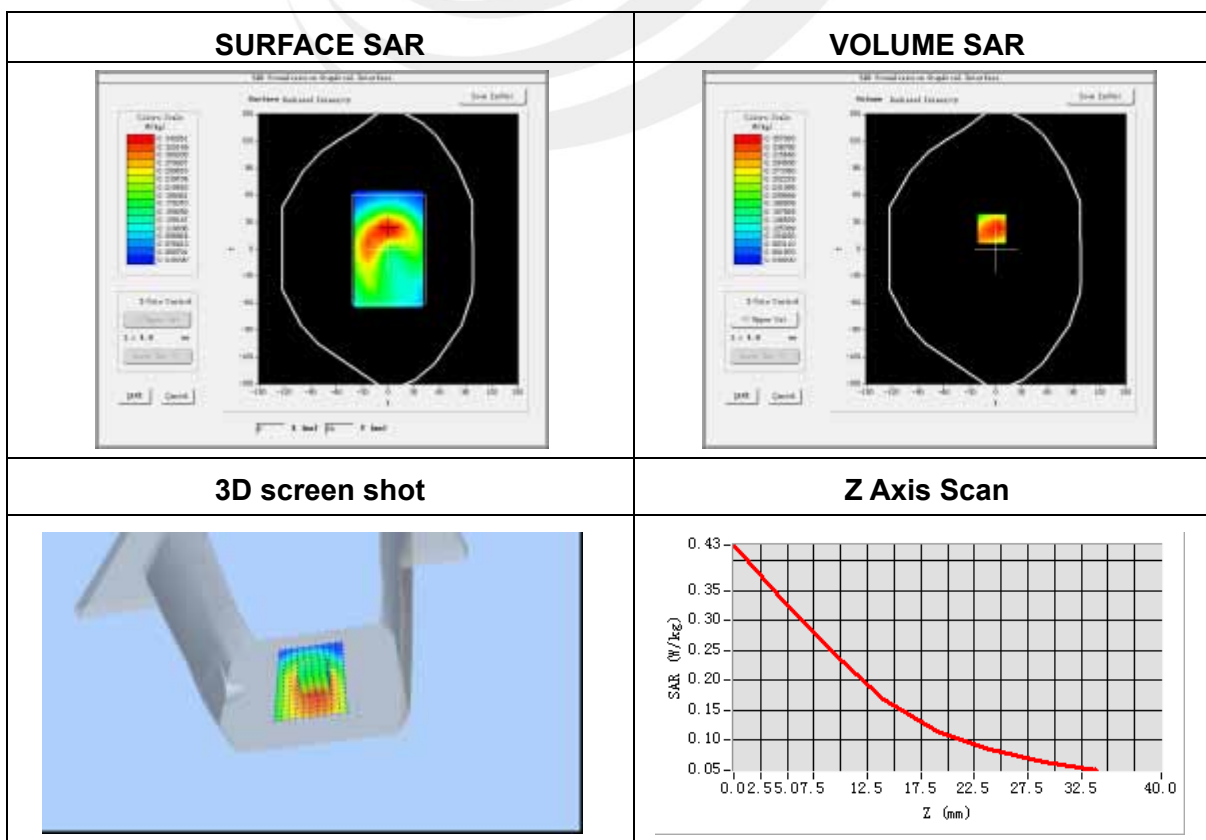
Plot 8: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	5.02
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Right side
Band	EGPRS 850
Channels	High
Signal	Duty Cycle:2.0 (Crest factor:2.0)
Frequency (MHz)	848.8
Relative permittivity (real part)	42.27
Conductivity (S/m)	0.91
Variation (%)	-2.32

Maximum location: X=-5.00, Y=23.00

SAR Peak: 0.50 W/kg

SAR 10g (W/Kg)	0.222807
SAR 1g (W/Kg)	0.340625



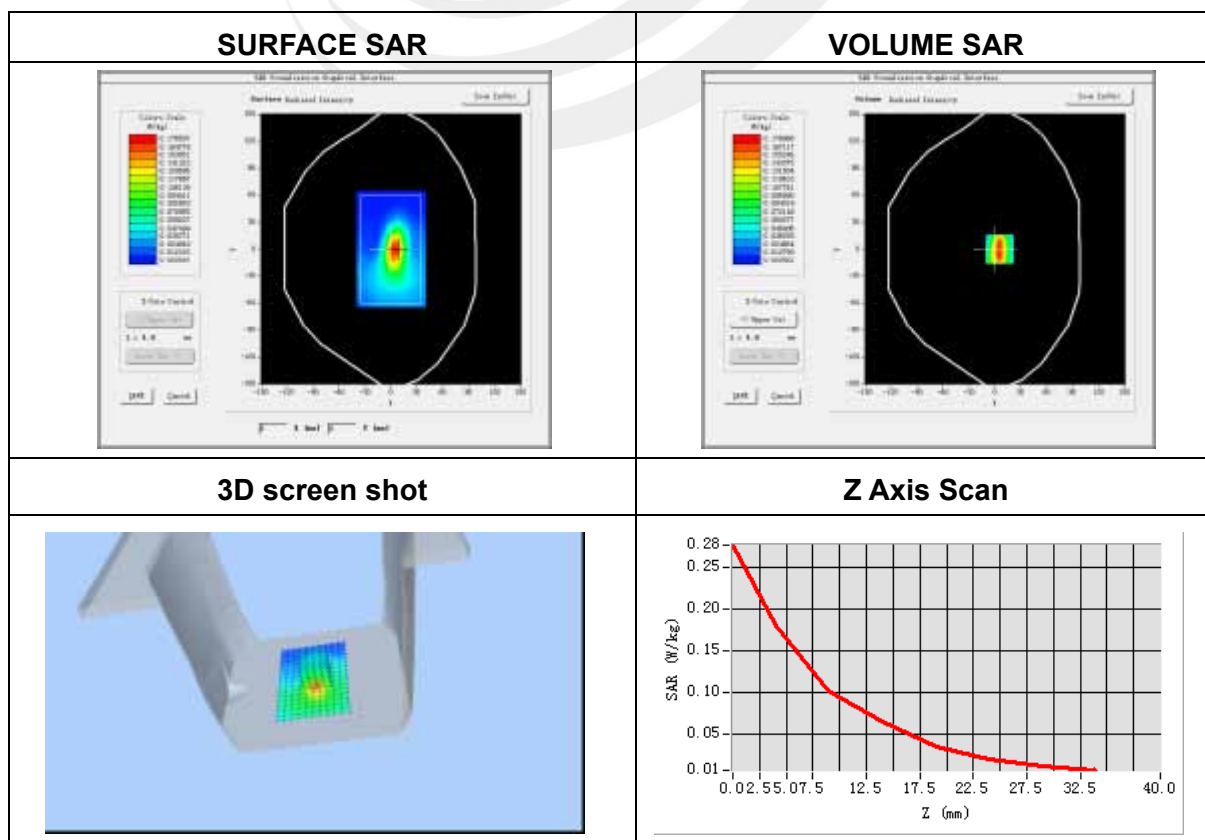
Plot 9: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	5.02
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Bottom side
Band	EGPRS 850
Channels	High
Signal	Duty Cycle:2.0 (Crest factor:2.0)
Frequency (MHz)	848.8
Relative permittivity (real part)	42.27
Conductivity (S/m)	0.91
Variation (%)	-0.31

Maximum location: X=5.00, Y=0.00

SAR Peak: 0.28 W/kg

SAR 10g (W/Kg)	0.083866
SAR 1g (W/Kg)	0.163626



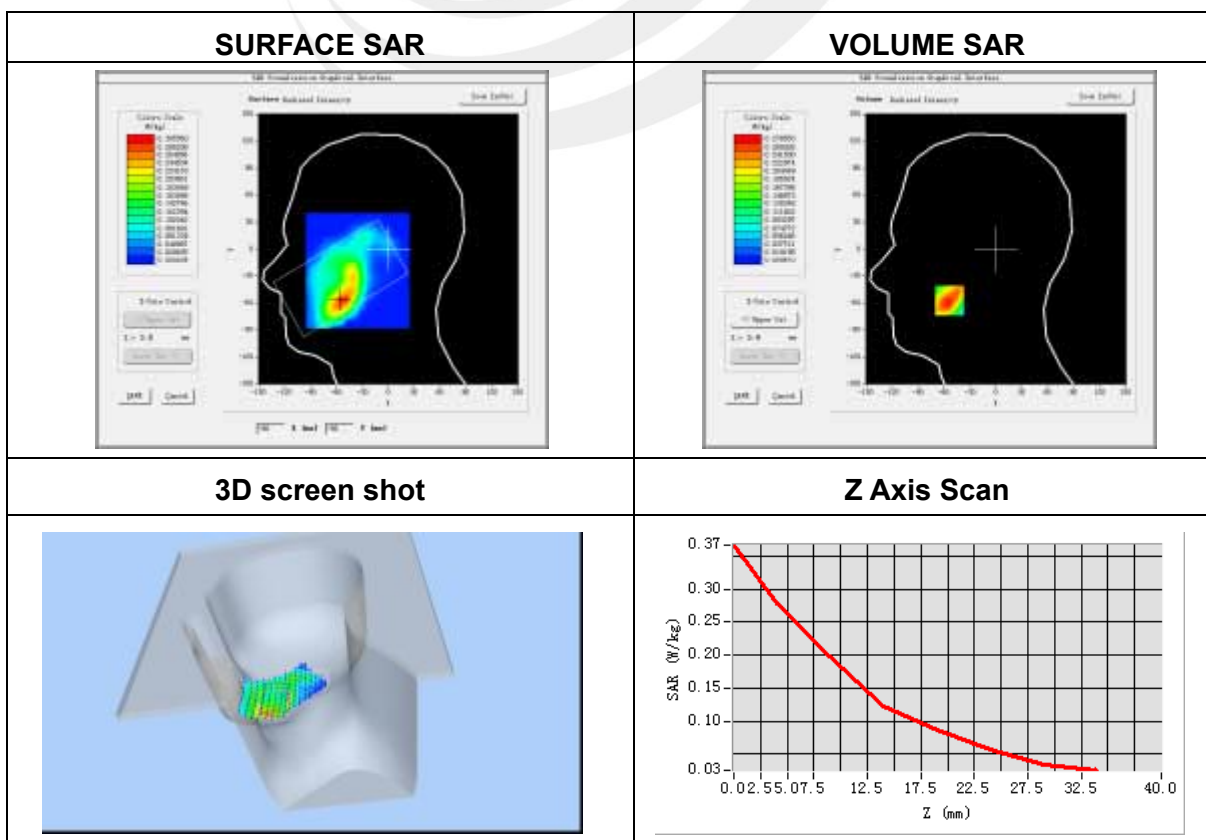
Plot 10: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.71
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Cheek
Band	GSM1900
Channels	High
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	1909.8
Relative permittivity (real part)	39.57
Conductivity (S/m)	1.43
Variation (%)	-0.87

Maximum location: X=-54.00, Y=-57.00

SAR Peak: 0.40 W/kg

SAR 10g (W/Kg)	0.159994
SAR 1g (W/Kg)	0.270954



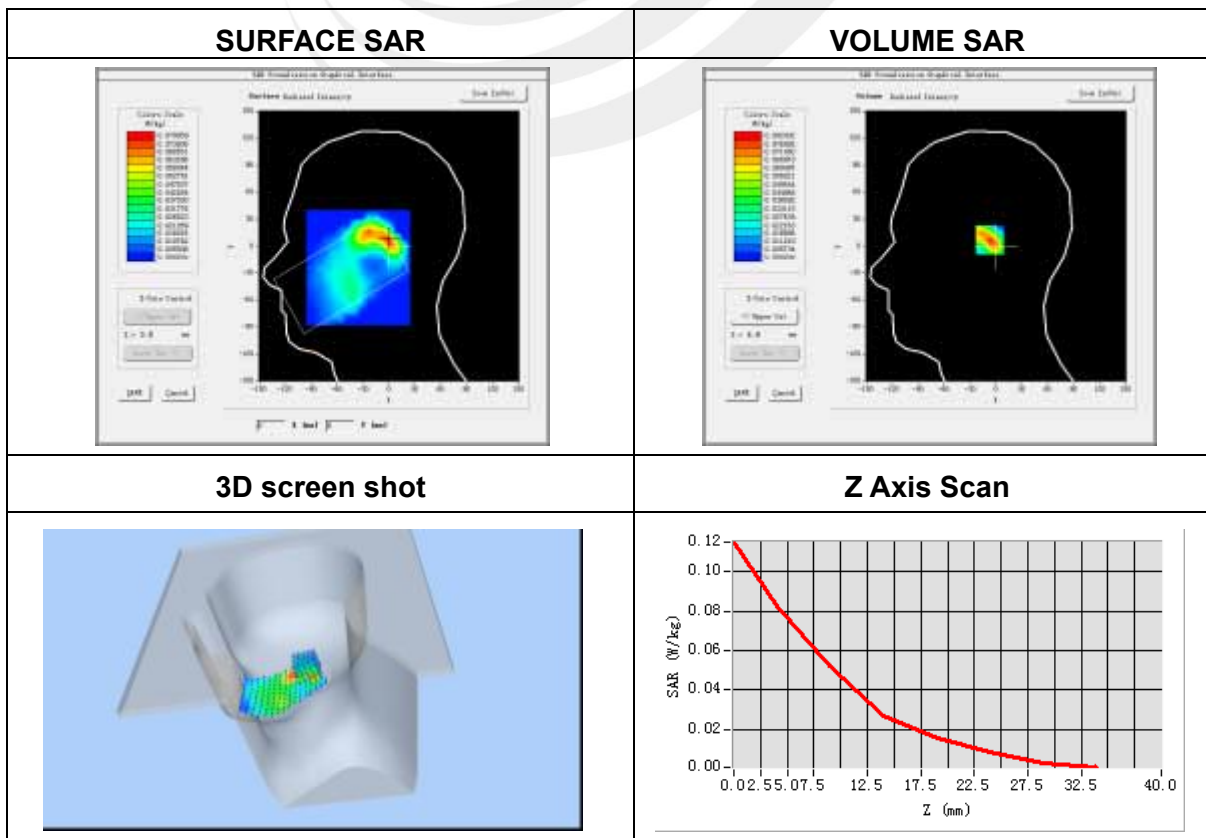
Plot 11: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.71
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Tilt
Band	GSM1900
Channels	High
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	1909.8
Relative permittivity (real part)	39.57
Conductivity (S/m)	1.43
Variation (%)	-3.21

Maximum location: X=-1.00, Y=7.00

SAR Peak: 0.13 W/kg

SAR 10g (W/Kg)	0.037521
SAR 1g (W/Kg)	0.077641



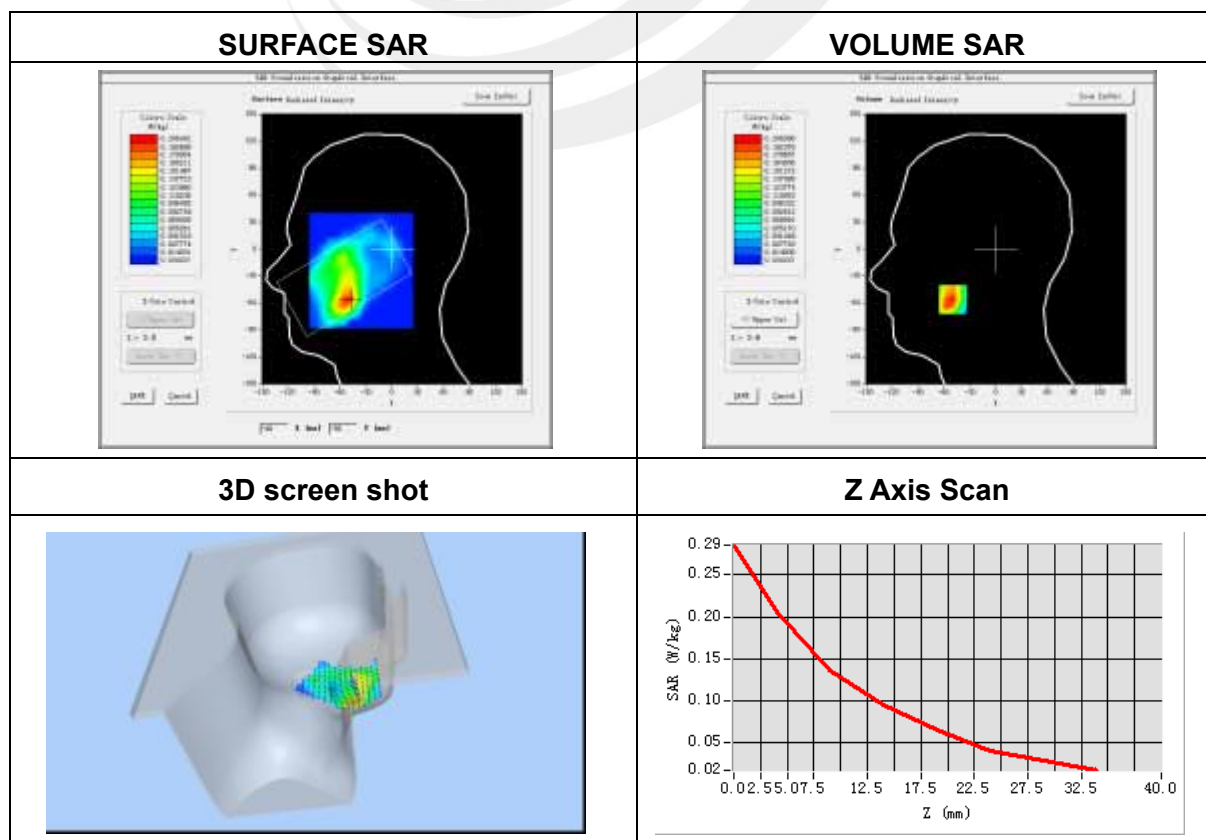
Plot 12: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.71
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Cheek
Band	GSM1900
Channels	High
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	1909.8
Relative permittivity (real part)	39.57
Conductivity (S/m)	1.43
Variation (%)	-3.26

Maximum location: X=-50.00, Y=-56.00

SAR Peak: 0.31 W/kg

SAR 10g (W/Kg)	0.116789
SAR 1g (W/Kg)	0.201214



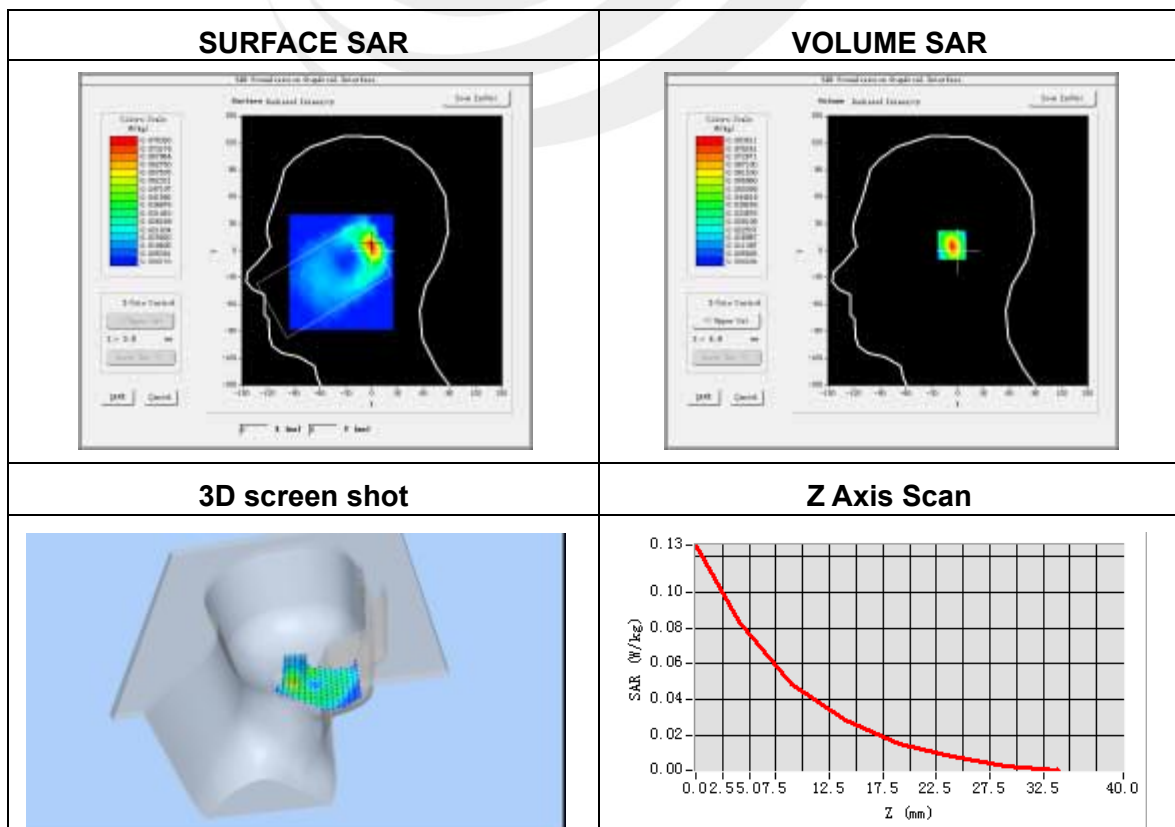
Plot 13: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.71
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Tilt
Band	GSM1900
Channels	High
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	1909.8
Relative permittivity (real part)	39.57
Conductivity (S/m)	1.43
Variation (%)	-0.87

Maximum location: X=-1.00, Y=6.00

SAR Peak: 0.13 W/kg

SAR 10g (W/Kg)	0.037988
SAR 1g (W/Kg)	0.077223



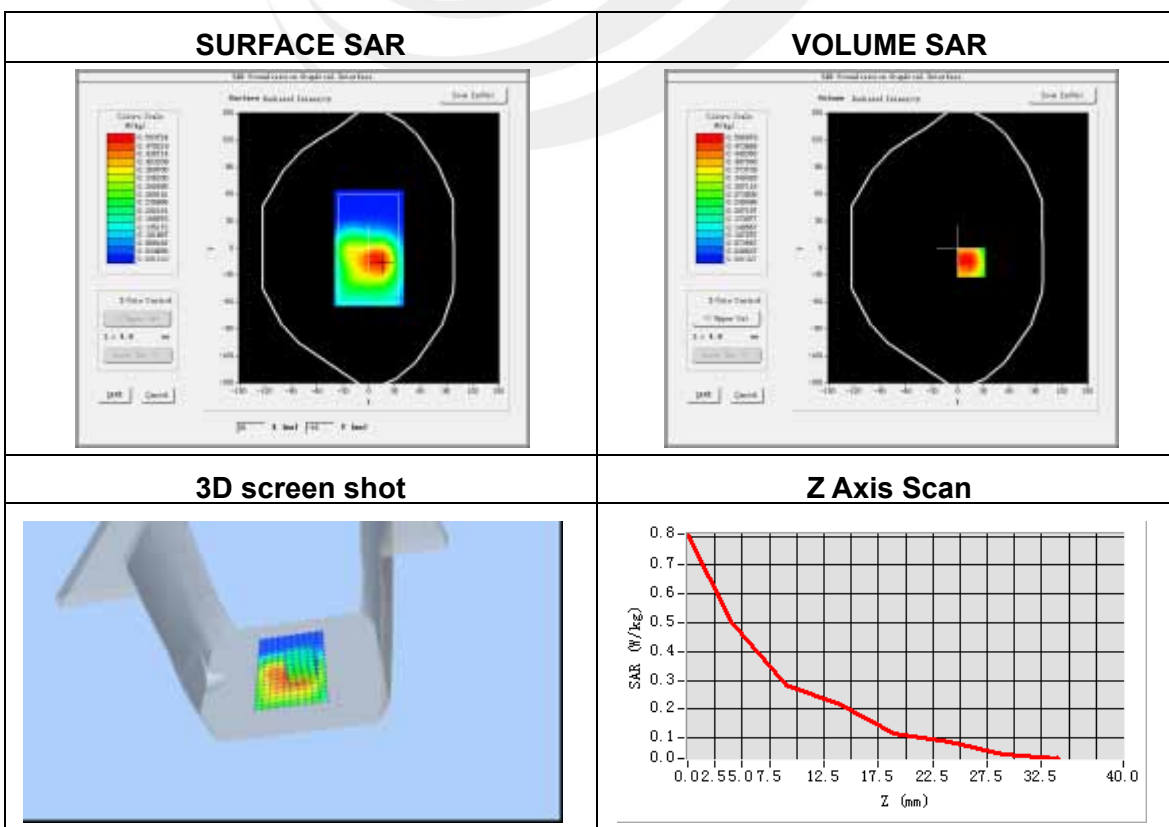
Plot 14: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Front
Band	GPRS 1900
Channels	High
Signal	Duty Cycle:2.0 (Crest factor:2.0)
Frequency (MHz)	1909.8
Relative permittivity (real part)	51.68
Conductivity (S/m)	1.51
Variation (%)	2.89

Maximum location: X=15.00, Y=-16.00

SAR Peak: 0.74 W/kg

SAR 10g (W/Kg)	0.307874
SAR 1g (W/Kg)	0.495316



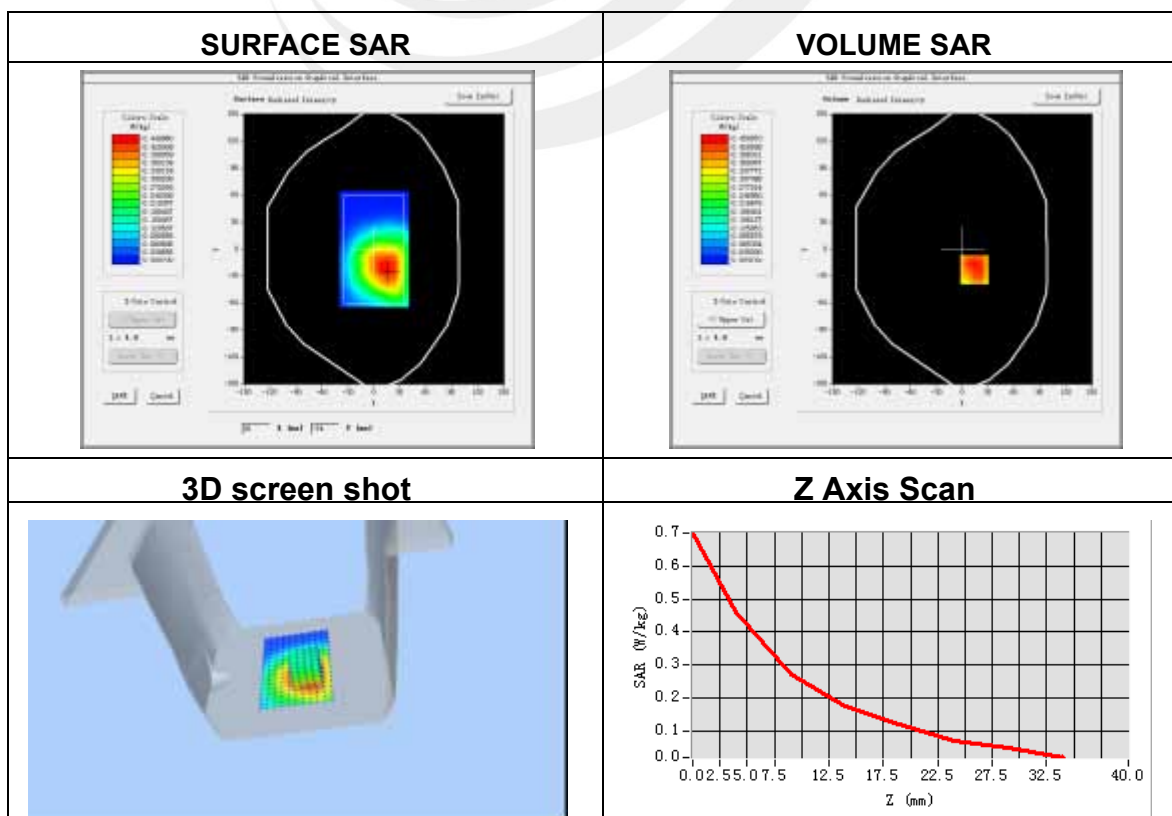
Plot 15: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Back
Band	GPRS 1900
Channels	High
Signal	Duty Cycle:2.0 (Crest factor:2.0)
Frequency (MHz)	1909.8
Relative permittivity (real part)	51.68
Conductivity (S/m)	1.51
Variation (%)	0.47

Maximum location: X=14.00, Y=-23.00

SAR Peak: 0.65 W/kg

SAR 10g (W/Kg)	0.272078
SAR 1g (W/Kg)	0.433869



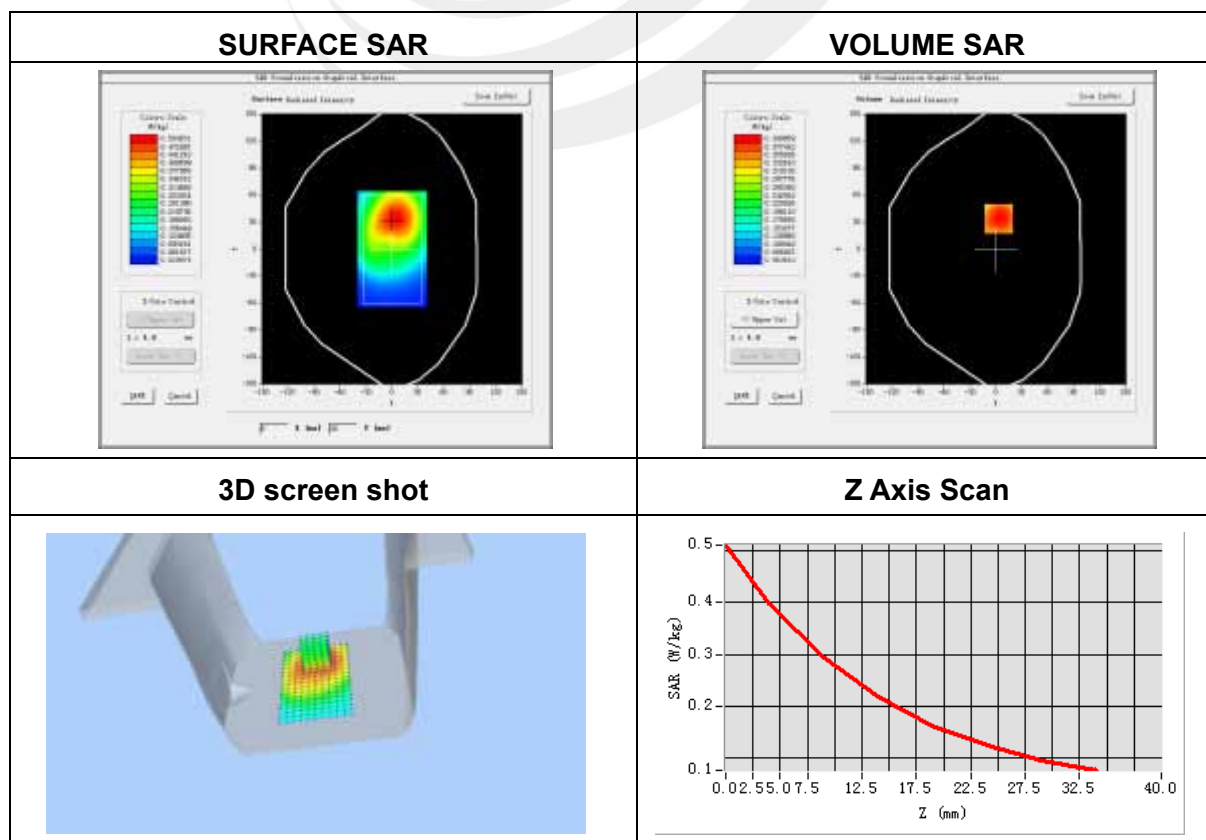
Plot 16: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body left side
Band	GPRS 1900
Channels	High
Signal	Duty Cycle:2.0 (Crest factor:2.0)
Frequency (MHz)	1909.8
Relative permittivity (real part)	51.68
Conductivity (S/m)	1.51
Variation (%)	-1.09

Maximum location: X=16.00, Y=16.00

SAR Peak: 0.51 W/kg

SAR 10g (W/Kg)	0.280701
SAR 1g (W/Kg)	0.395376



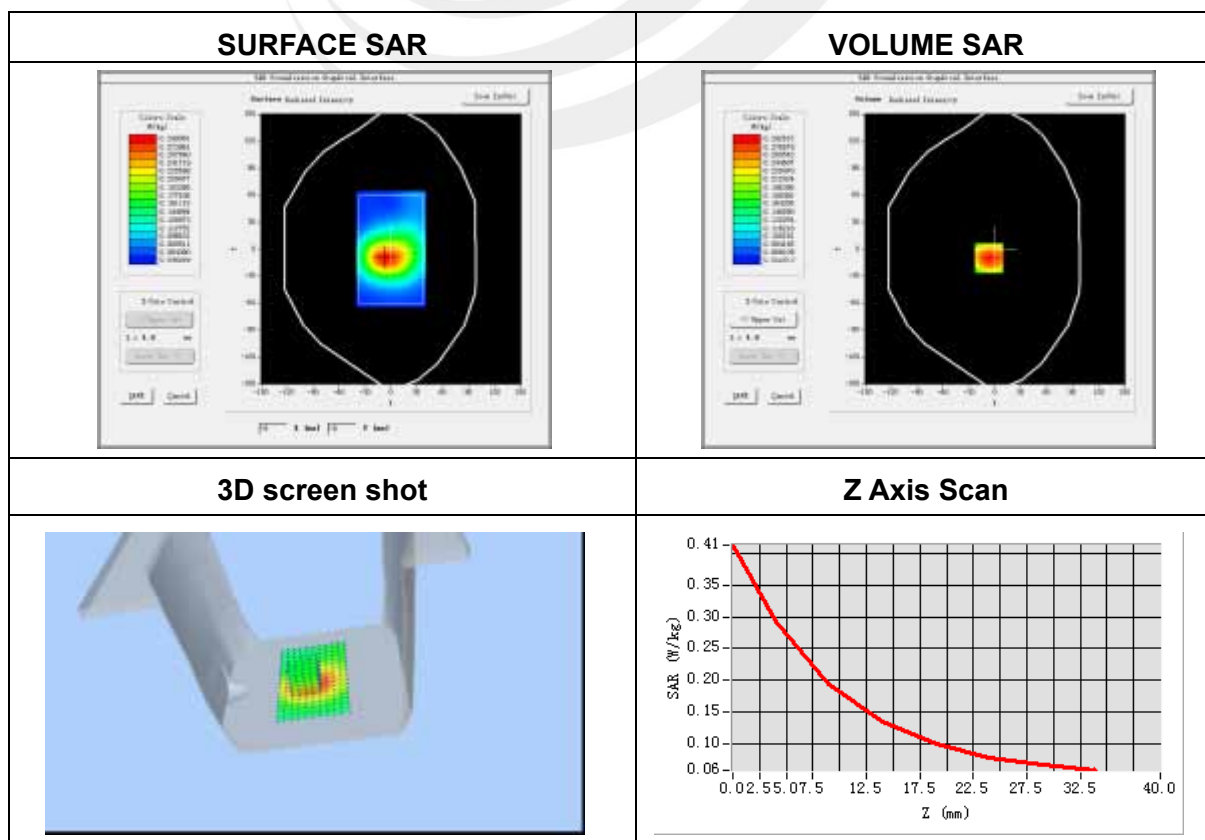
Plot 17: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Right side
Band	GPRS 1900
Channels	High
Signal	Duty Cycle:2.0 (Crest factor:2.0)
Frequency (MHz)	1909.8
Relative permittivity (real part)	51.68
Conductivity (S/m)	1.51
Variation (%)	-0.54

Maximum location: X=-7.00, Y=-10.00

SAR Peak: 0.41 W/kg

SAR 10g (W/Kg)	0.185729
SAR 1g (W/Kg)	0.282806



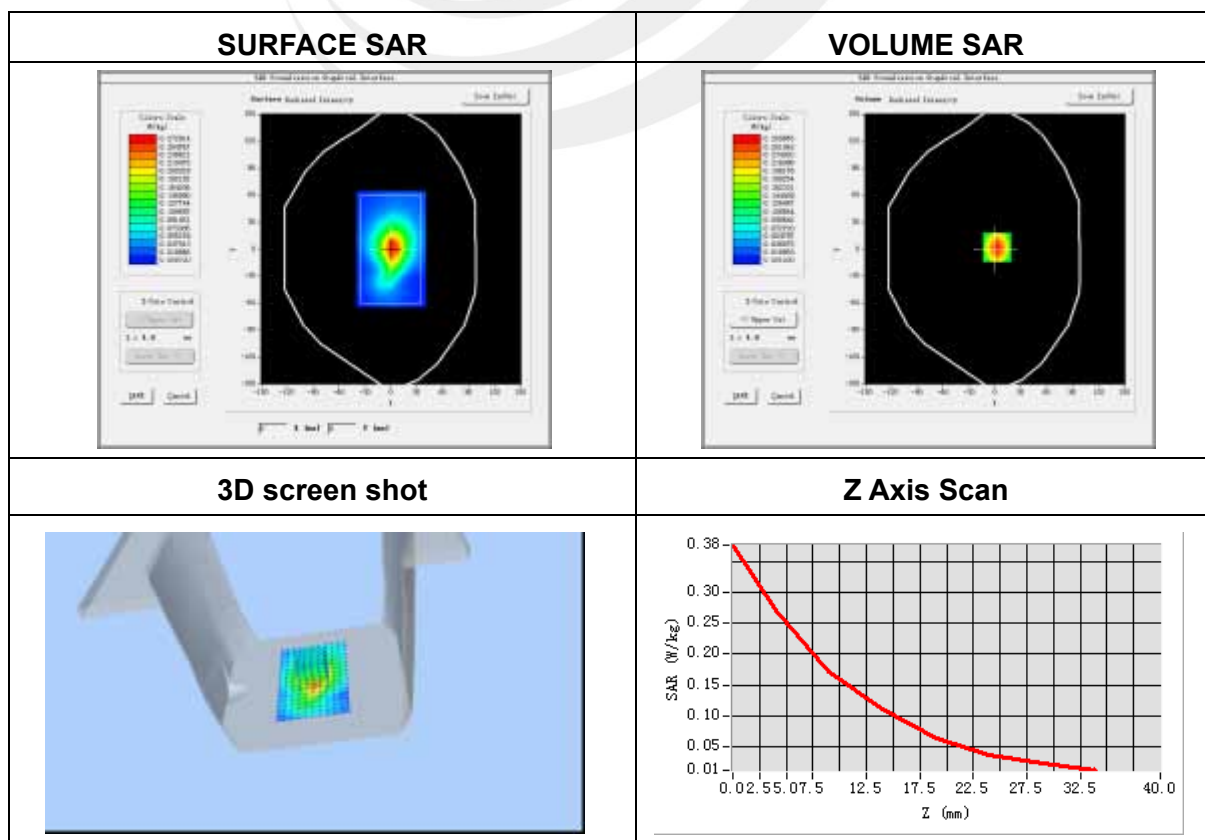
Plot 18: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Bottom side
Band	GPRS 1900
Channels	High
Signal	Duty Cycle:2.0 (Crest factor:2.0)
Frequency (MHz)	1909.8
Relative permittivity (real part)	51.68
Conductivity (S/m)	1.51
Variation (%)	-3.86

Maximum location: X=2.00, Y=2.00

SAR Peak: 0.38 W/kg

SAR 10g (W/Kg)	0.144975
SAR 1g (W/Kg)	0.252483



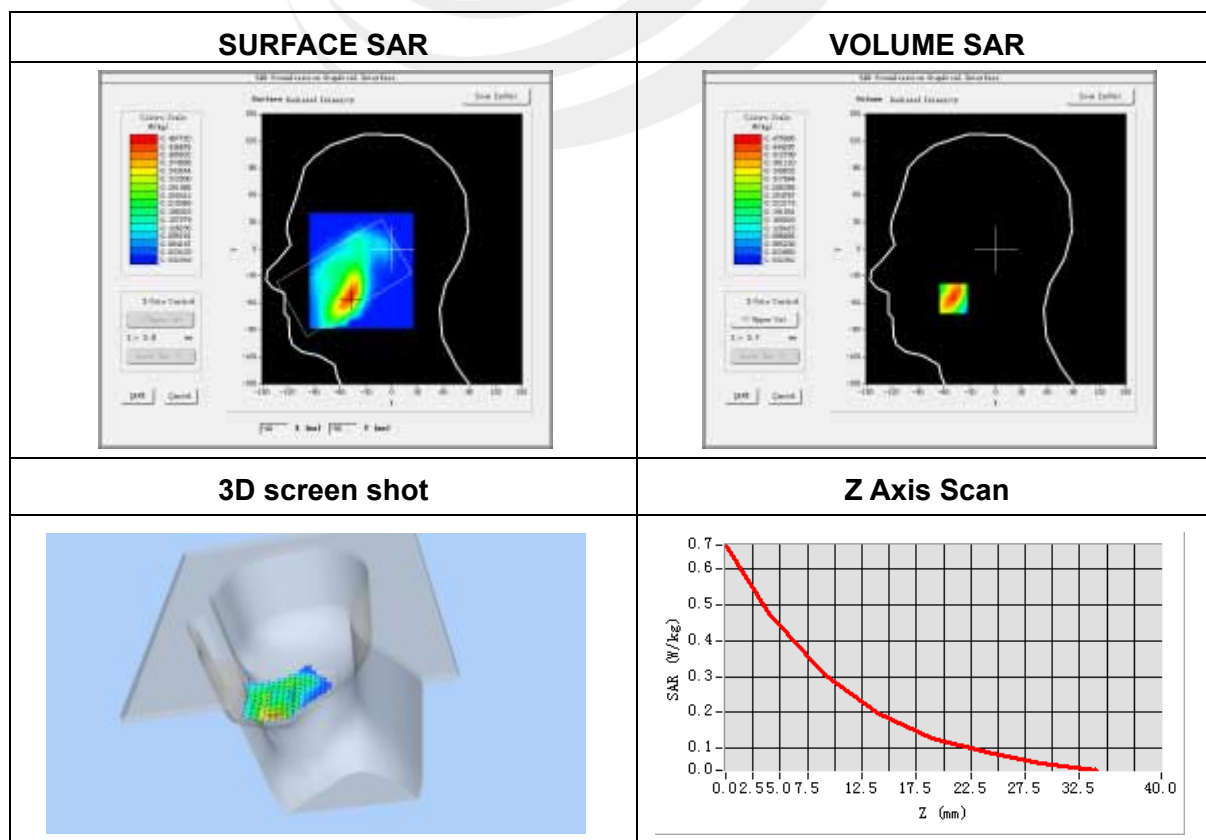
Plot 19: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.71
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Cheek
Band	WCDMA II
Channels	High
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1907.6
Relative permittivity (real part)	40.00
Conductivity (S/m)	1.40
Variation (%)	1.48

Maximum location: X=-49.00, Y=-55.00

SAR Peak: 0.68 W/kg

SAR 10g (W/Kg)	0.262469
SAR 1g (W/Kg)	0.445663



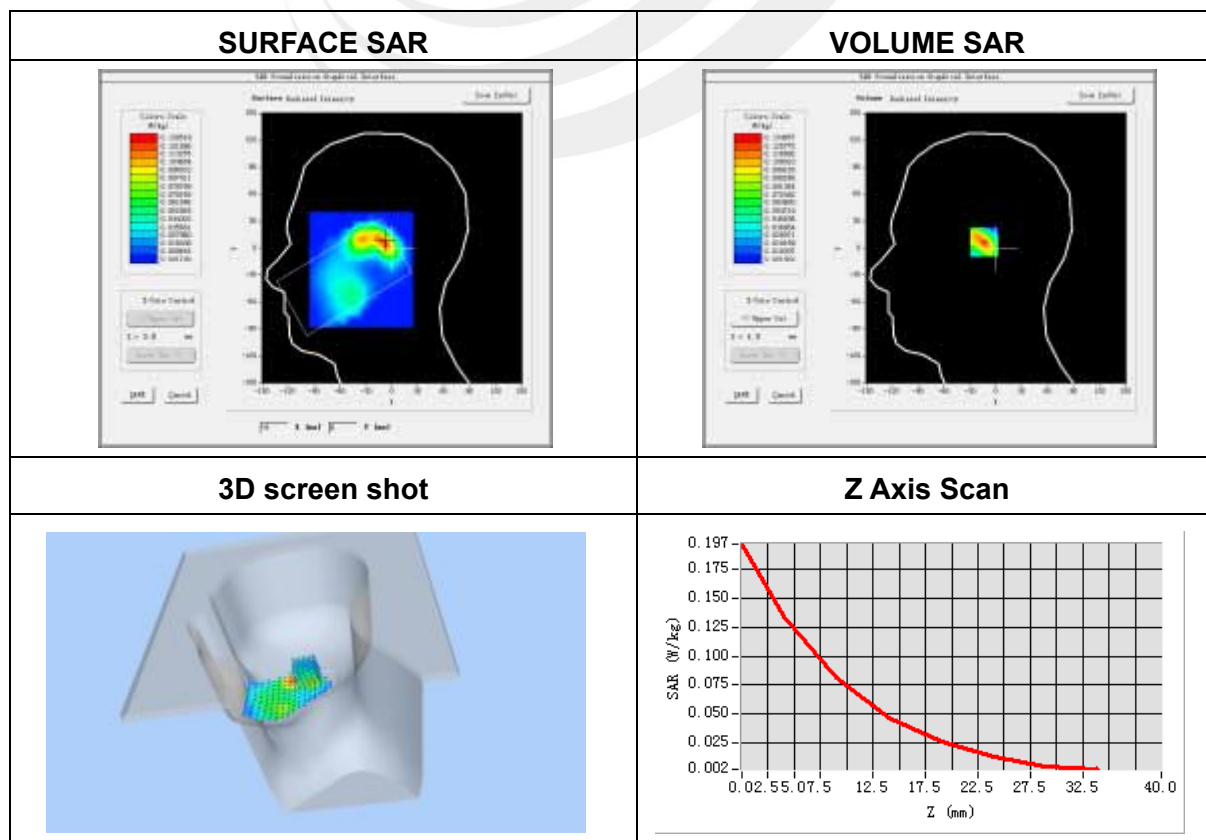
Plot 20: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.71
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Tilt
Band	WCDMA II
Channels	High
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1907.6
Relative permittivity (real part)	40.00
Conductivity (S/m)	1.40
Variation (%)	1.62

Maximum location: X=-9.00, Y=7.00

SAR Peak: 0.20 W/kg

SAR 10g (W/Kg)	0.061170
SAR 1g (W/Kg)	0.122164



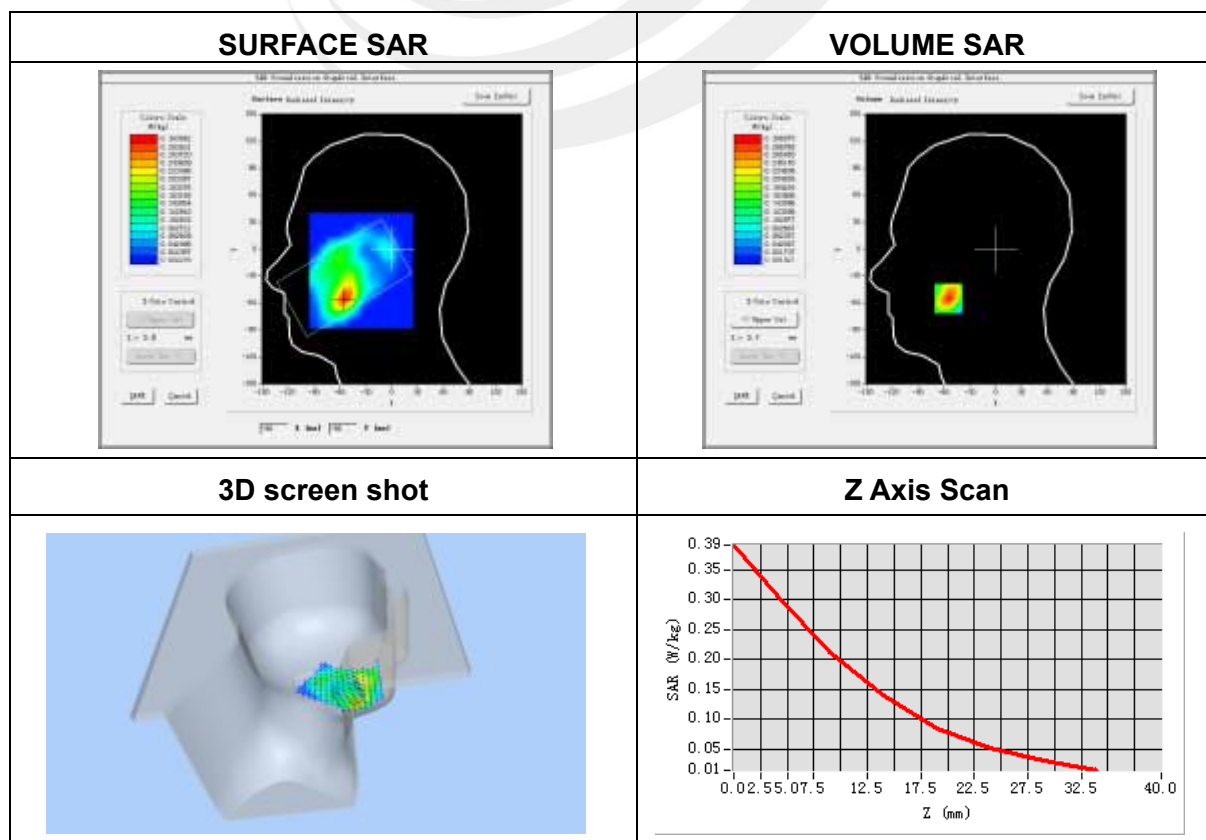
Plot 21: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.71
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Cheek
Band	WCDMA II
Channels	High
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1907.6
Relative permittivity (real part)	40.00
Conductivity (S/m)	1.40
Variation (%)	-1.77

Maximum location: X=-55.00, Y=-55.00

SAR Peak: 0.41 W/kg

SAR 10g (W/Kg)	0.168051
SAR 1g (W/Kg)	0.284404



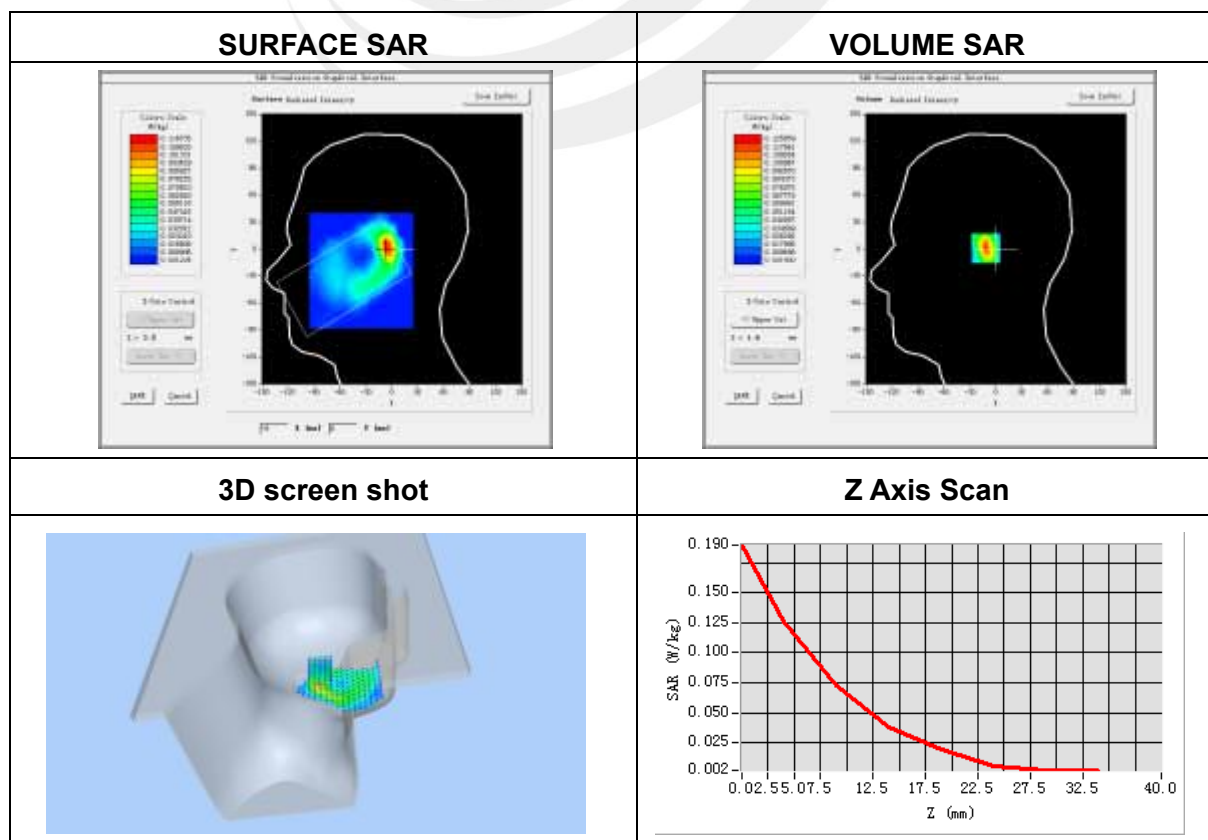
Plot 22: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.71
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Tilt
Band	WCDMA II
Channels	High
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1907.6
Relative permittivity (real part)	40.00
Conductivity (S/m)	1.40
Variation (%)	-1.53

Maximum location: X=-6.00, Y=1.00

SAR Peak: 0.19 W/kg

SAR 10g (W/Kg)	0.055849
SAR 1g (W/Kg)	0.115142



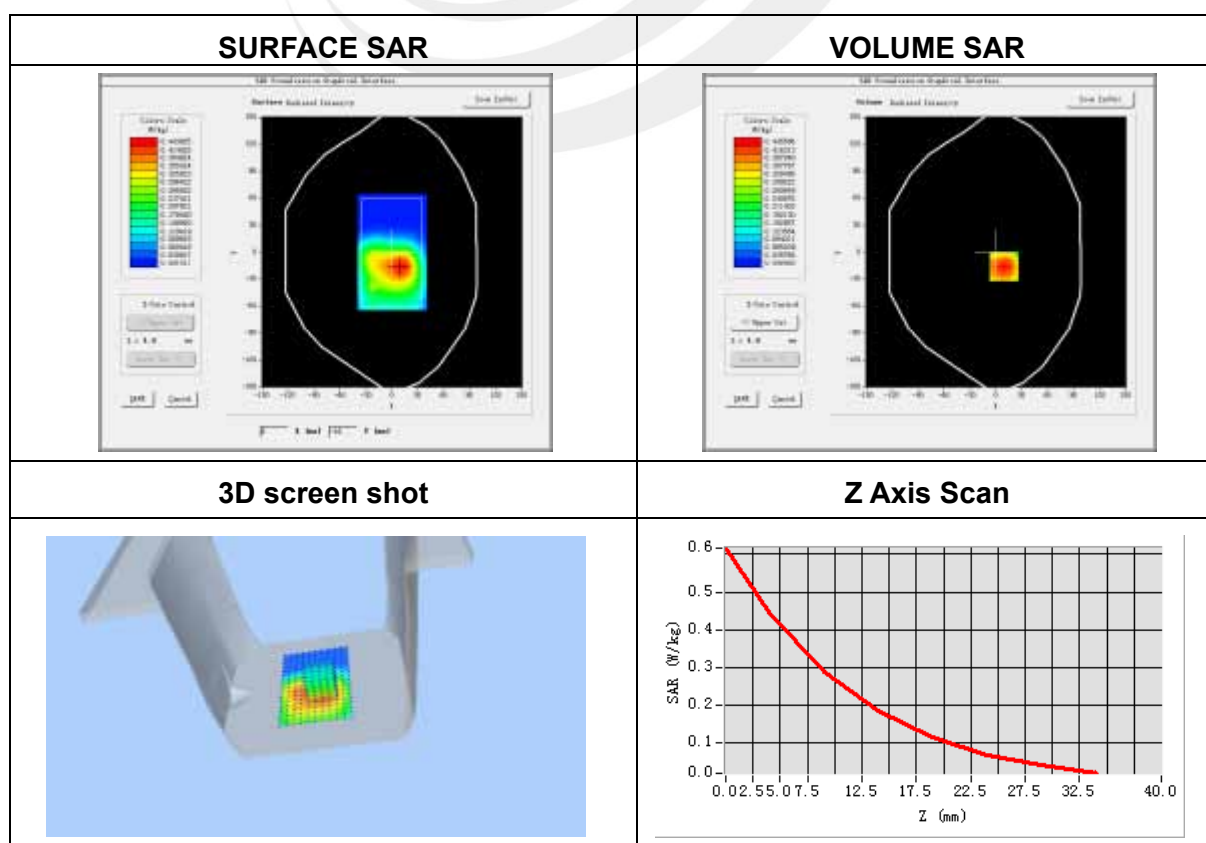
Plot 23: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Front
Band	WCDMA II
Channels	High
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1907.6
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	-0.43

Maximum location: X=9.00, Y=-16.00

SAR Peak: 0.62 W/kg

SAR 10g (W/Kg)	0.260036
SAR 1g (W/Kg)	0.425959



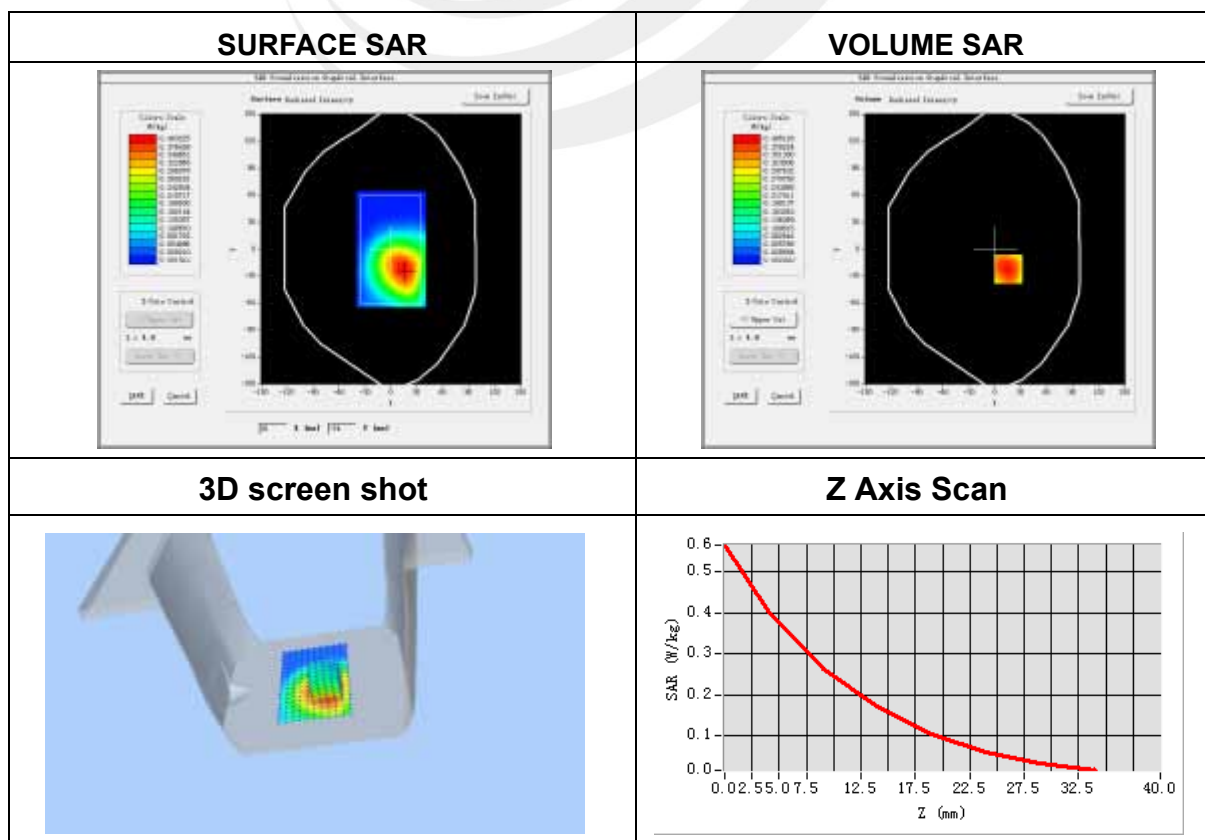
Plot 24: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	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
Channels	Low
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1852.4
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	-2.37

Maximum location: X=15.00, Y=-22.00

SAR Peak: 0.57 W/kg

SAR 10g (W/Kg)	0.244498
SAR 1g (W/Kg)	0.390748



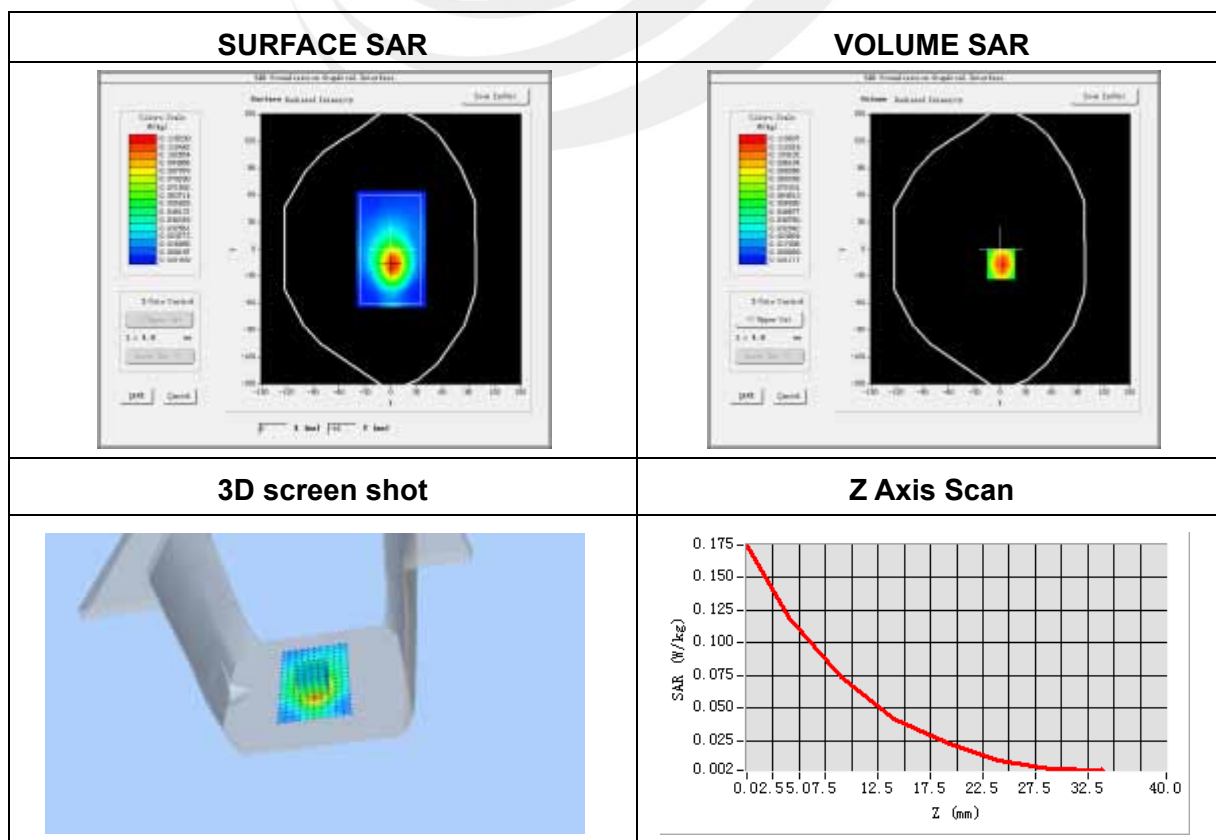
Plot 25: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body left side
Band	WCDMA II
Channels	High
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1907.6
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	-0.86

Maximum location: X=1.00, Y=-17.00

SAR Peak: 0.18 W/kg

SAR 10g (W/Kg)	0.062680
SAR 1g (W/Kg)	0.114490



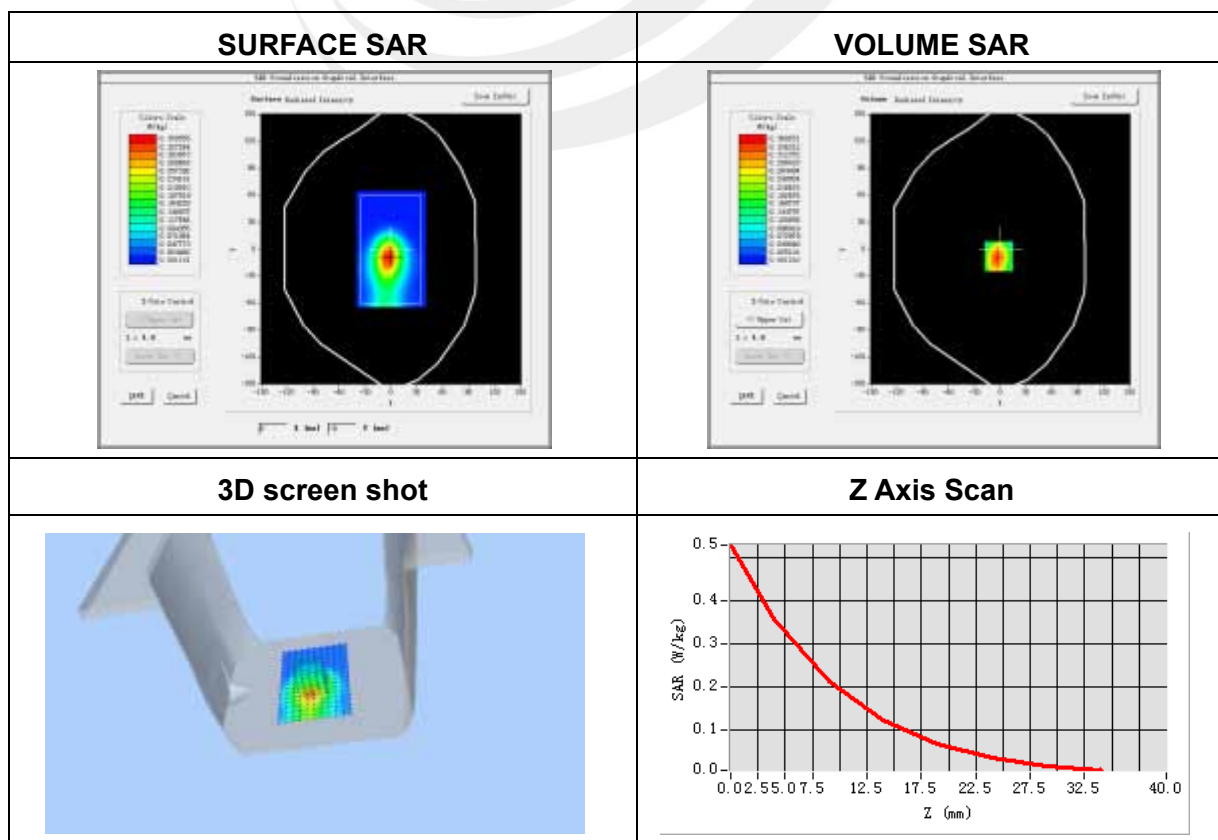
Plot 26: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Right side
Band	WCDMA II
Channels	High
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1907.6
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	-1.09

Maximum location: X=-2.00, Y=-8.00

SAR Peak: 0.53 W/kg

SAR 10g (W/Kg)	0.183606
SAR 1g (W/Kg)	0.339191



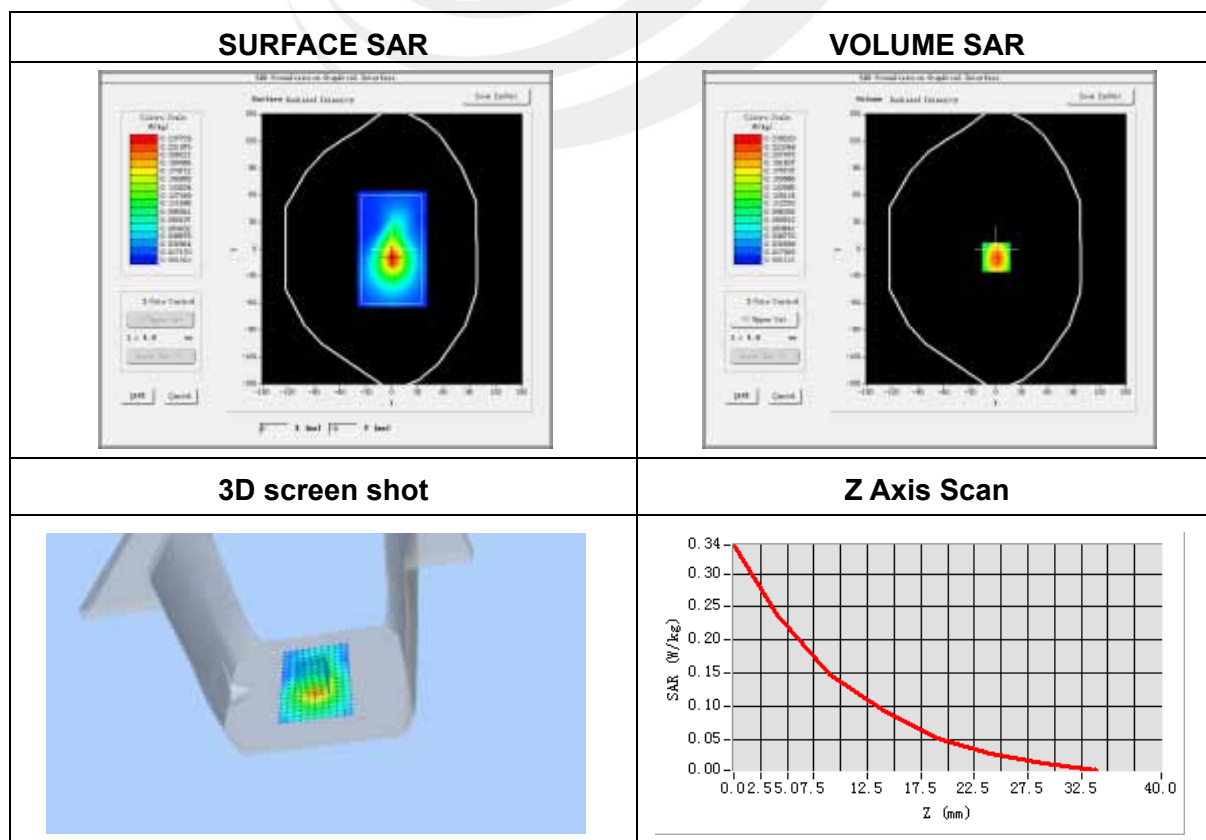
Plot 27: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Bottom side
Band	WCDMA II
Channels	High
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1907.6
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	-0.97

Maximum location: X=0.00, Y=-9.00

SAR Peak: 0.34 W/kg

SAR 10g (W/Kg)	0.126173
SAR 1g (W/Kg)	0.226014



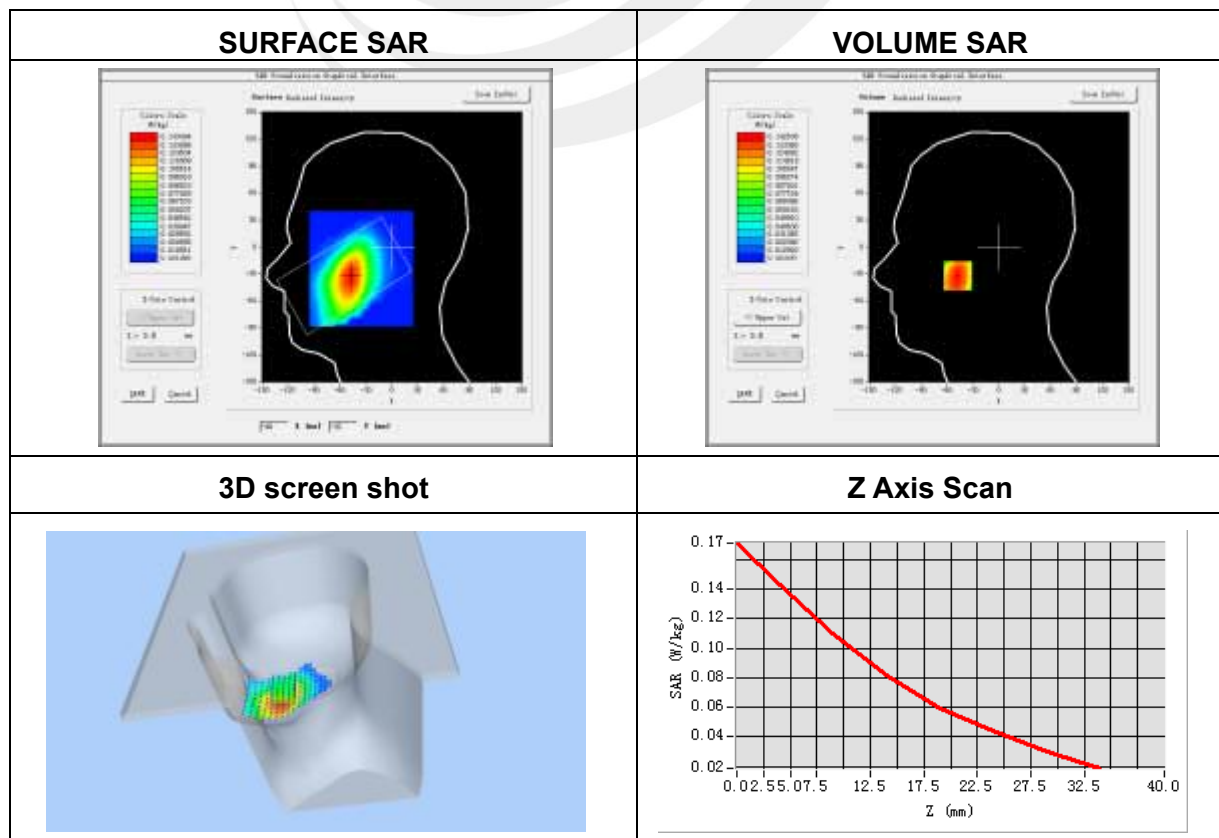
Plot 28: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.83
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Cheek
Band	WCDMA V
Channels	High
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	846.6
Relative permittivity (real part)	42.27
Conductivity (S/m)	0.91
Variation (%)	-4.38

Maximum location: X=-48.00, Y=-32.00

SAR Peak: 0.18 W/kg

SAR 10g (W/Kg)	0.096694
SAR 1g (W/Kg)	0.137774



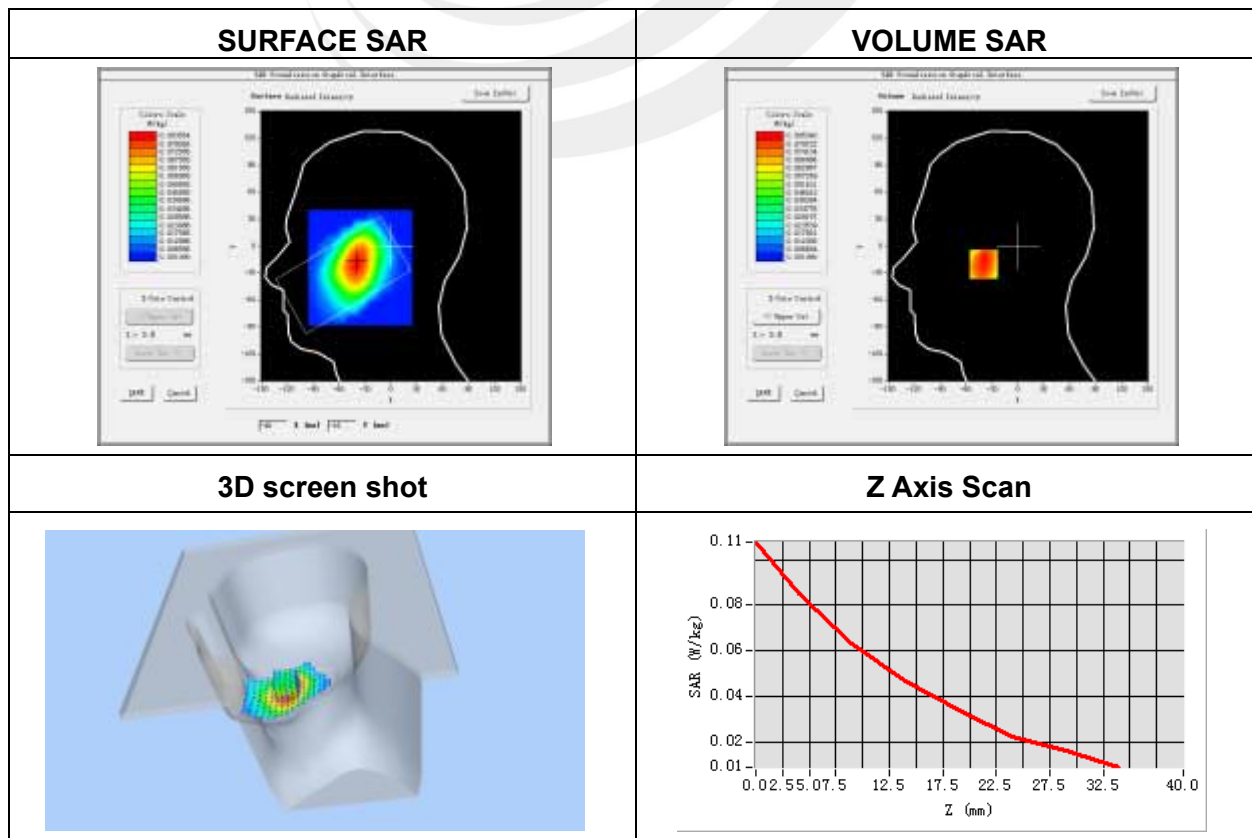
Plot 29: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.83
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Tilt
Band	WCDMA V
Channels	High
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	846.6
Relative permittivity (real part)	42.27
Conductivity (S/m)	0.91
Variation (%)	-4.09

Maximum location: X=-40.00, Y=-20.00

SAR Peak: 0.11 W/kg

SAR 10g (W/Kg)	0.057270
SAR 1g (W/Kg)	0.082518



Plot 30: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.83
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Cheek
Band	WCDMA V
Channels	High
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	846.6
Relative permittivity (real part)	42.27
Conductivity (S/m)	0.91
Variation (%)	-3.37

Maximum location: X=-56.00, Y=-40.00

SAR Peak: 0.24 W/kg

SAR 10g (W/Kg)	0.127958
SAR 1g (W/Kg)	0.184506



Plot 31: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.83
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Tilt
Band	WCDMA V
Channels	High
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	846.6
Relative permittivity (real part)	42.27
Conductivity (S/m)	0.91
Variation (%)	-4.00

Maximum location: X=-40.00, Y=-32.00

SAR Peak: 0.10 W/kg

SAR 10g (W/Kg)	0.055490
SAR 1g (W/Kg)	0.078007



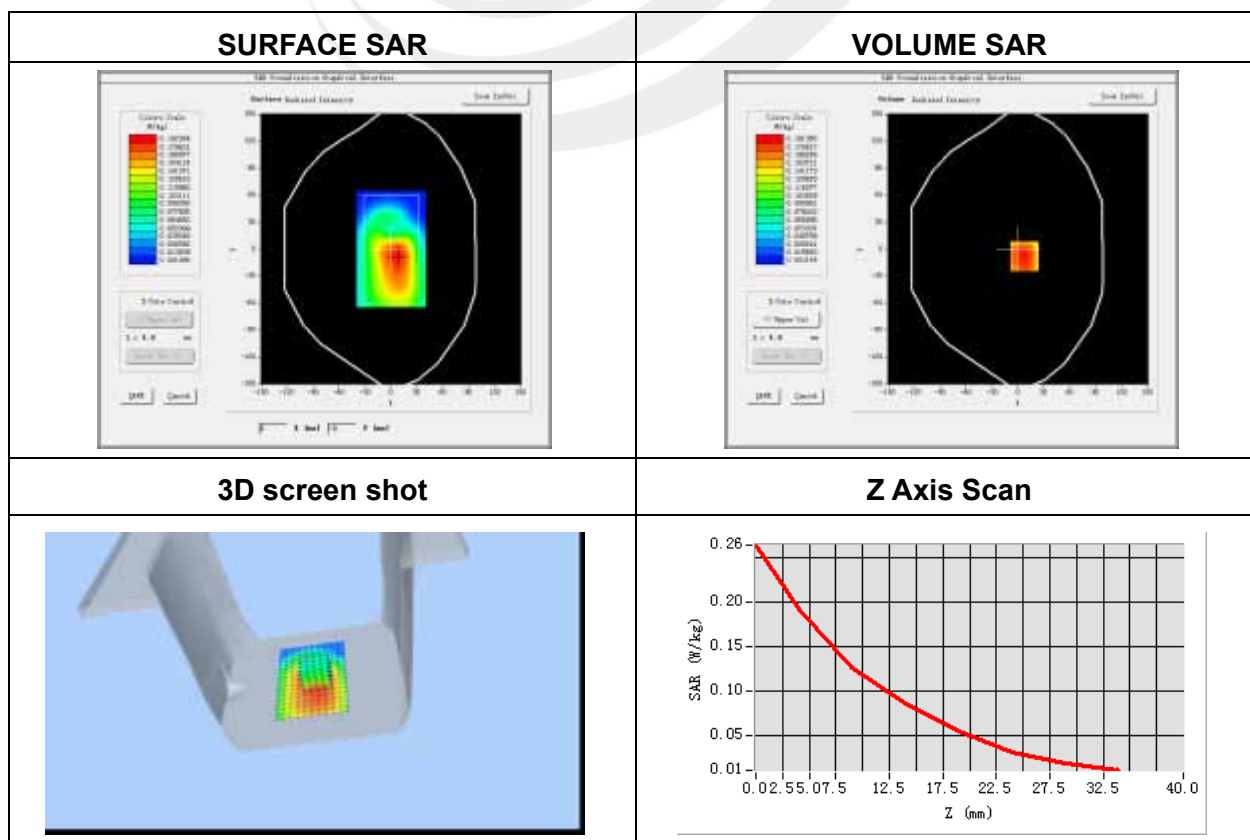
Plot 32: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	5.02
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Front
Band	WCDMA V
Channels	High
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	846.6
Relative permittivity (real part)	55.5
Conductivity (S/m)	0.96
Variation (%)	-1.72

Maximum location: X=7.00, Y=-8.00

SAR Peak: 0.26 W/kg

SAR 10g (W/Kg)	0.119370
SAR 1g (W/Kg)	0.185259



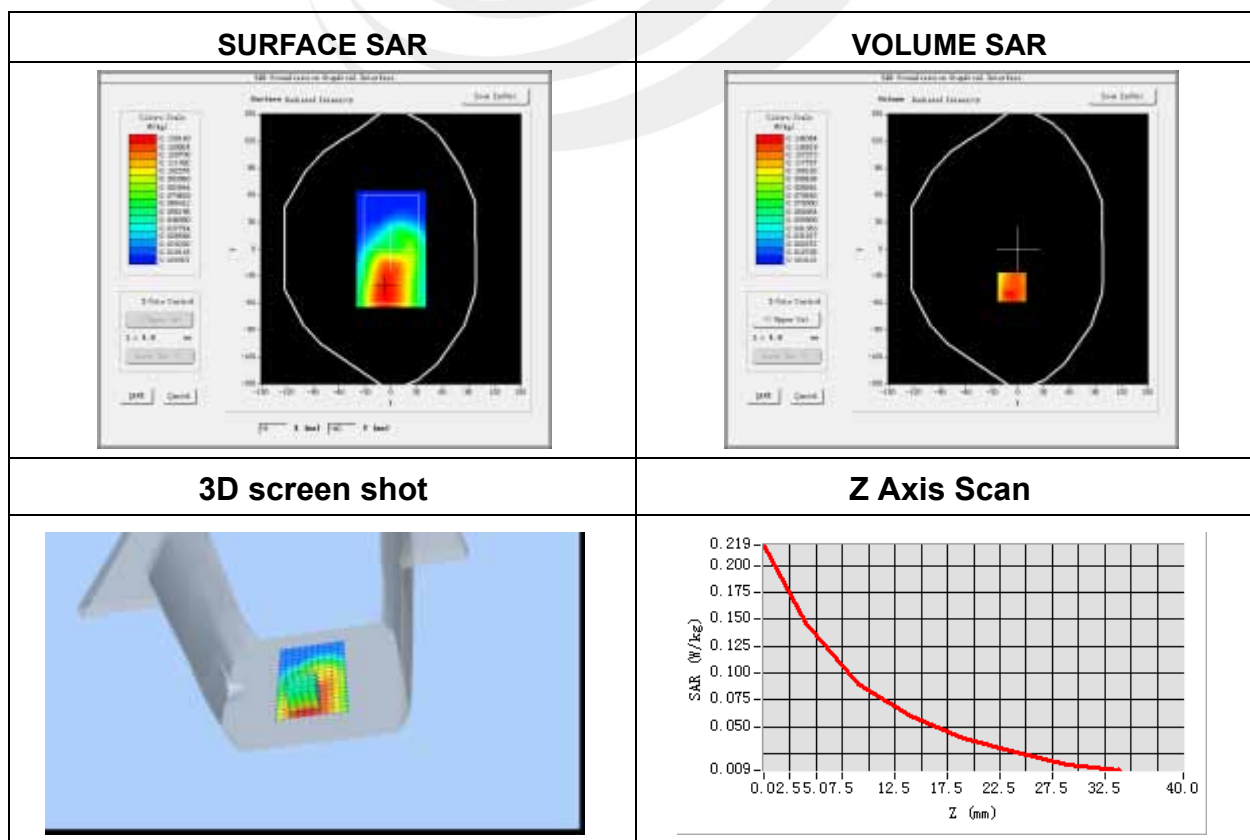
Plot 33: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	5.02
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	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 V
Channels	High
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	846.6
Relative permittivity (real part)	55.5
Conductivity (S/m)	0.96
Variation (%)	-3.10

Maximum location: X=-7.00, Y=-42.00

SAR Peak: 0.23 W/kg

SAR 10g (W/Kg)	0.088057
SAR 1g (W/Kg)	0.142626



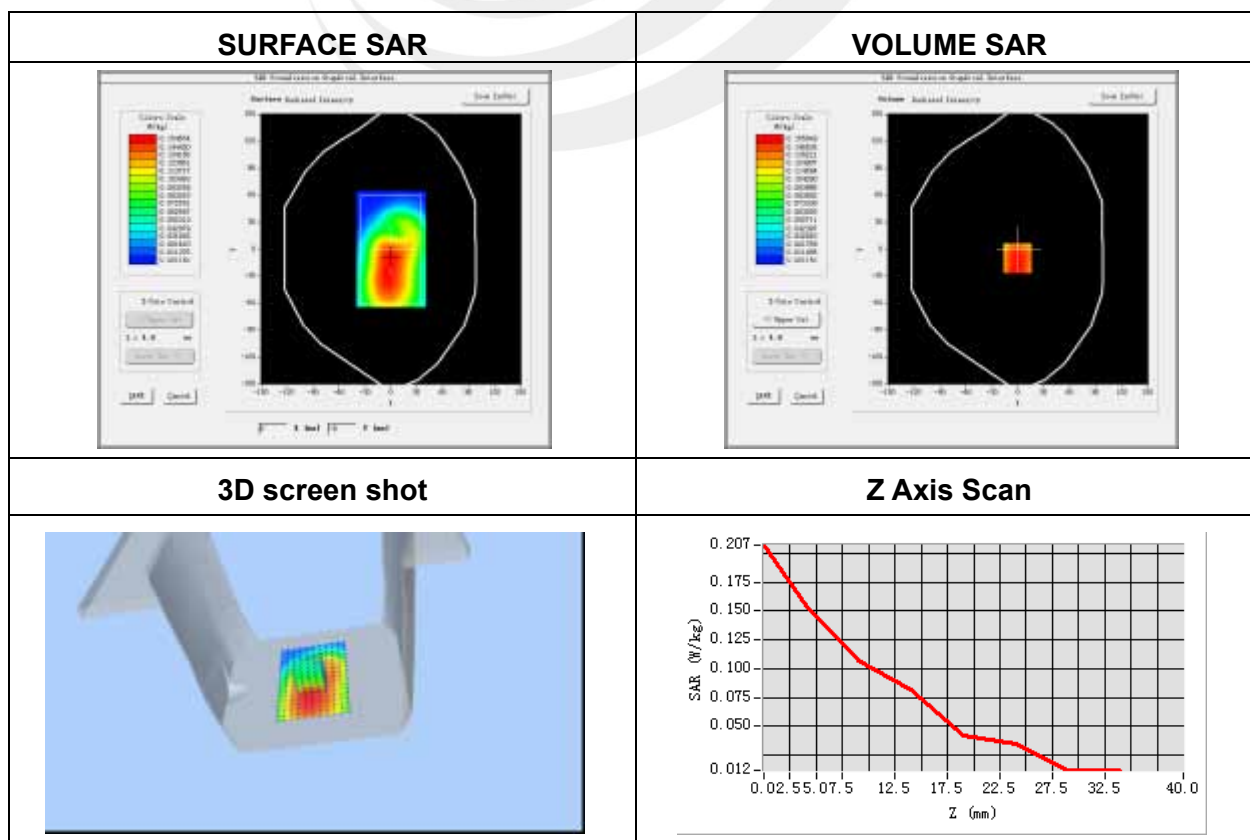
Plot 34: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	5.02
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body left side
Band	WCDMA V
Channels	High
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	846.6
Relative permittivity (real part)	55.5
Conductivity (S/m)	0.96
Variation (%)	-1.69

Maximum location: X=-1.00, Y=-10.00

SAR Peak: 0.20 W/kg

SAR 10g (W/Kg)	0.102512
SAR 1g (W/Kg)	0.149384



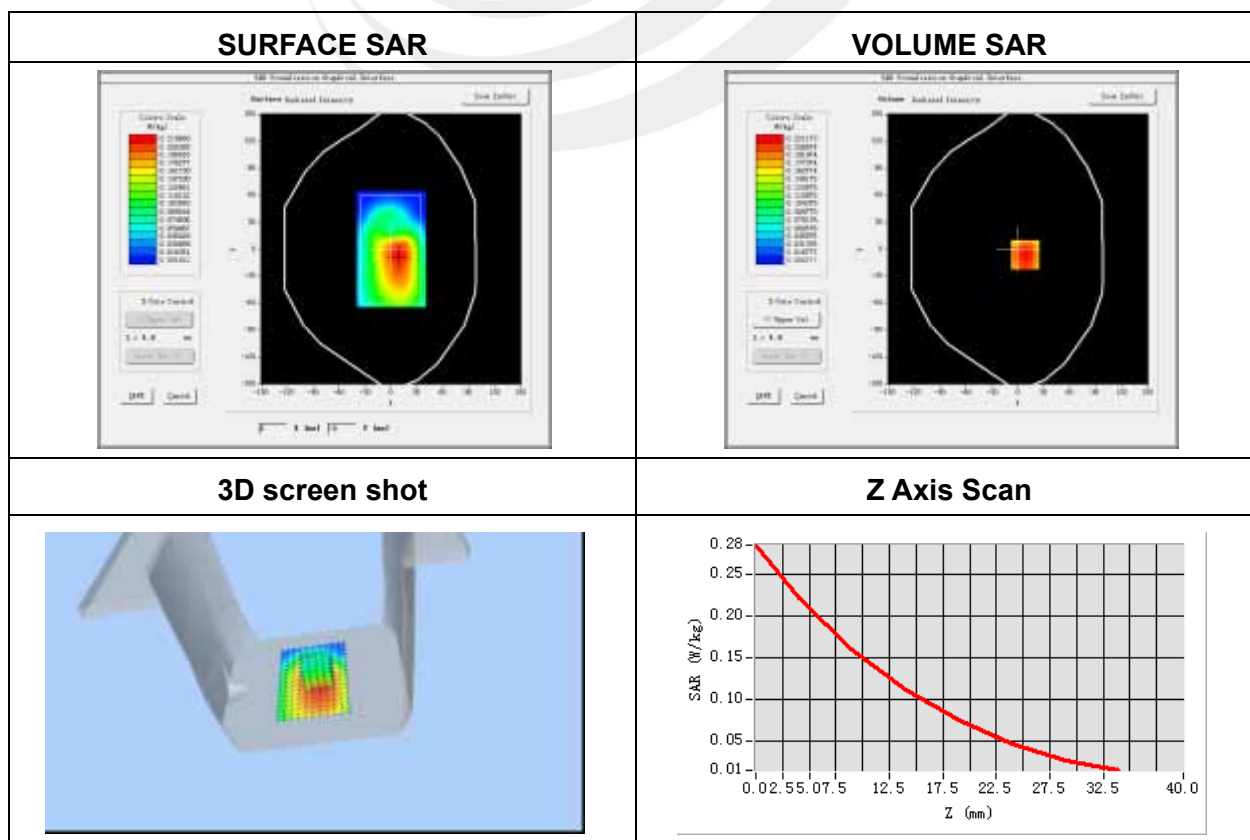
Plot 35: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	5.02
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Right side
Band	WCDMA V
Channels	High
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	846.6
Relative permittivity (real part)	55.5
Conductivity (S/m)	0.96
Variation (%)	-0.39

Maximum location: X=8.00, Y=-6.00

SAR Peak: 0.29 W/kg

SAR 10g (W/Kg)	0.143773
SAR 1g (W/Kg)	0.213098



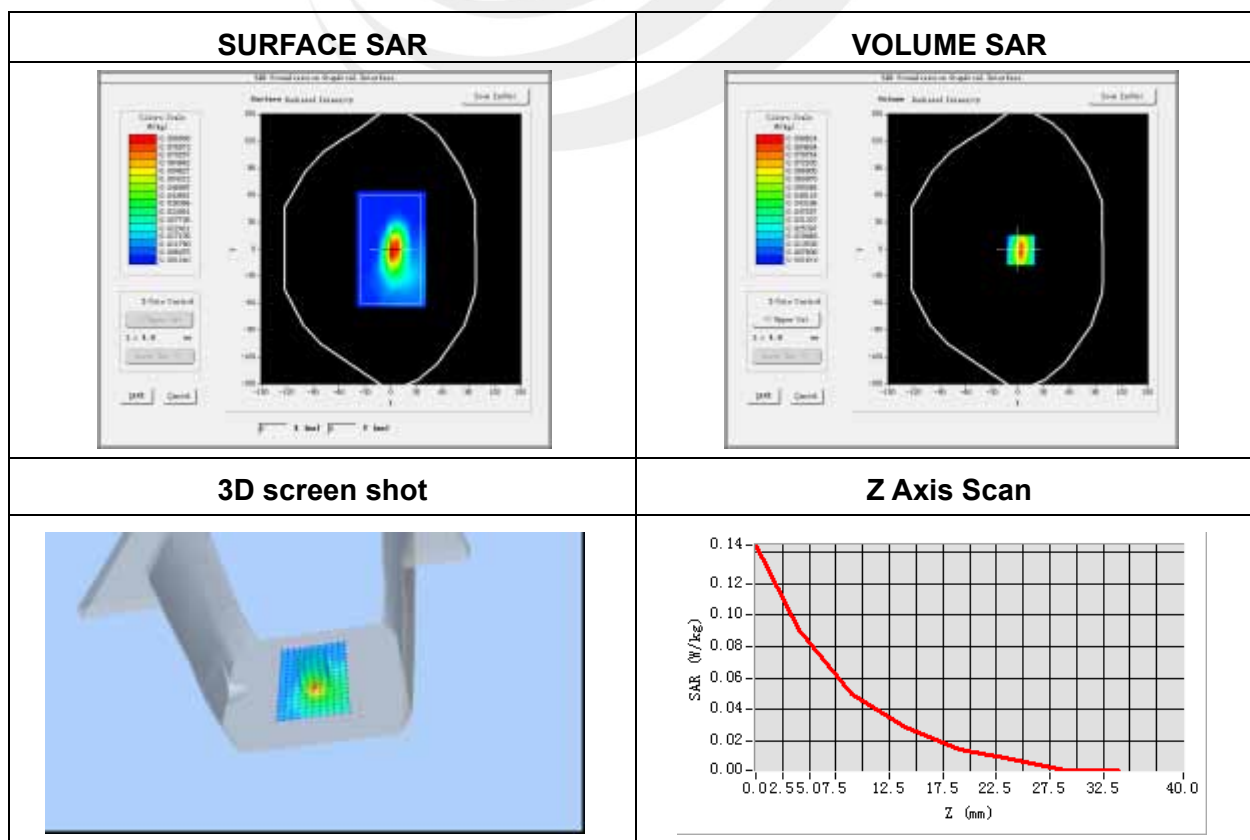
Plot 36: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	5.02
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Bottom side
Band	WCDMA V
Channels	High
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	846.6
Relative permittivity (real part)	55.5
Conductivity (S/m)	0.96
Variation (%)	-0.03

Maximum location: X=3.00, Y=-1.00

SAR Peak: 0.14 W/kg

SAR 10g (W/Kg)	0.039600
SAR 1g (W/Kg)	0.082668



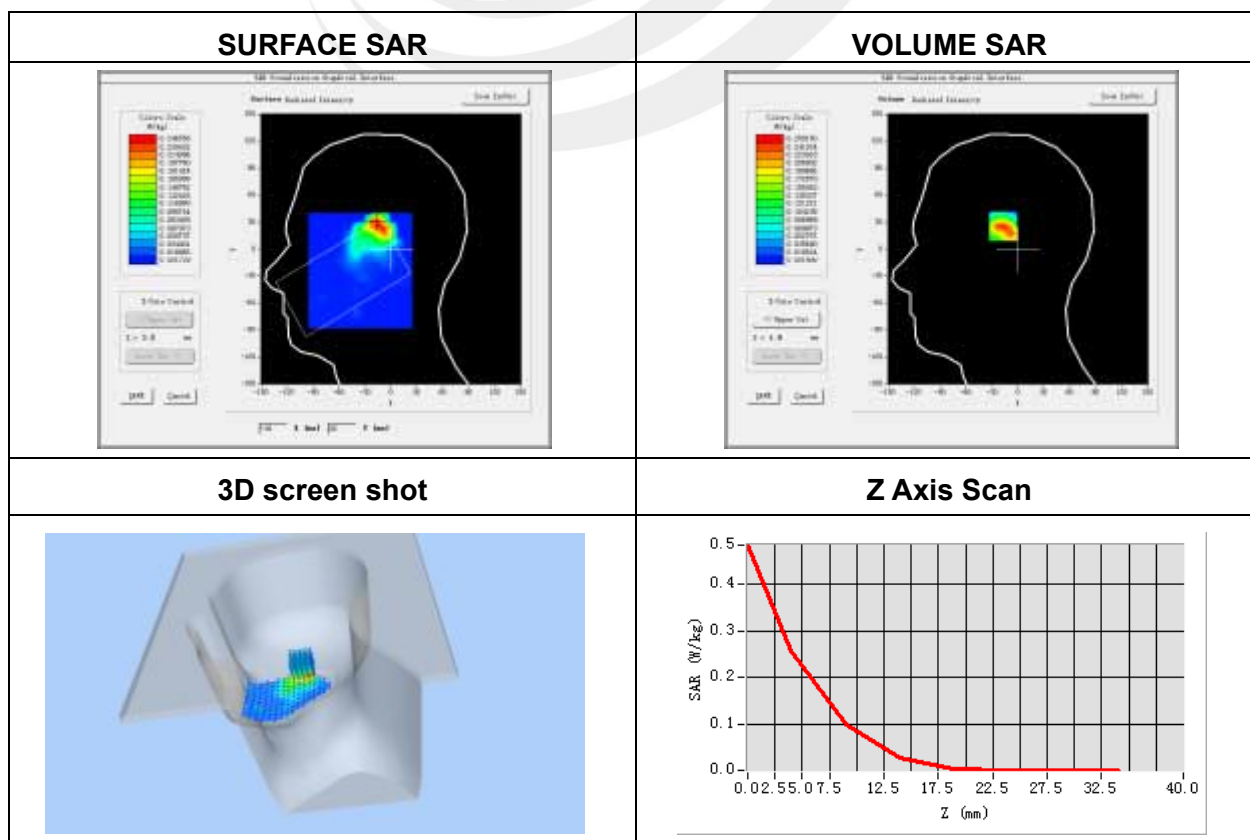
Plot 37: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.11
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Cheek
Band	IEEE 802.11b ISM
Channels	Middle
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2437
Relative permittivity (real part)	37.8
Conductivity (S/m)	1.86
Variation (%)	1.35

Maximum location: X=-17.00, Y=30.00

SAR Peak: 0.49 W/kg

SAR 10g (W/Kg)	0.102318
SAR 1g (W/Kg)	0.242713



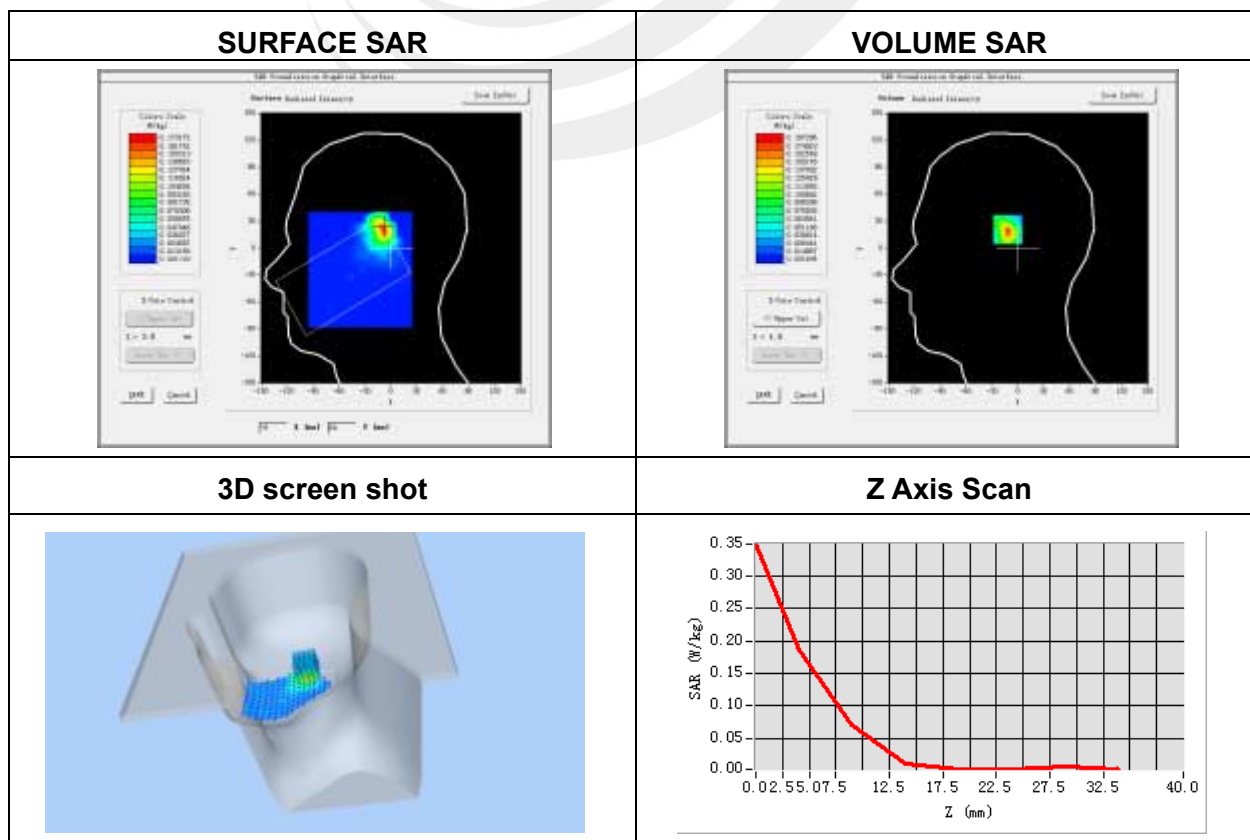
Plot 38: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.11
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Tilt
Band	IEEE 802.11b ISM
Channels	Middle
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2437
Relative permittivity (real part)	37.8
Conductivity (S/m)	1.86
Variation (%)	-3.19

Maximum location: X=-9.00, Y=23.00

SAR Peak: 0.36 W/kg

SAR 10g (W/Kg)	0.065472
SAR 1g (W/Kg)	0.170317



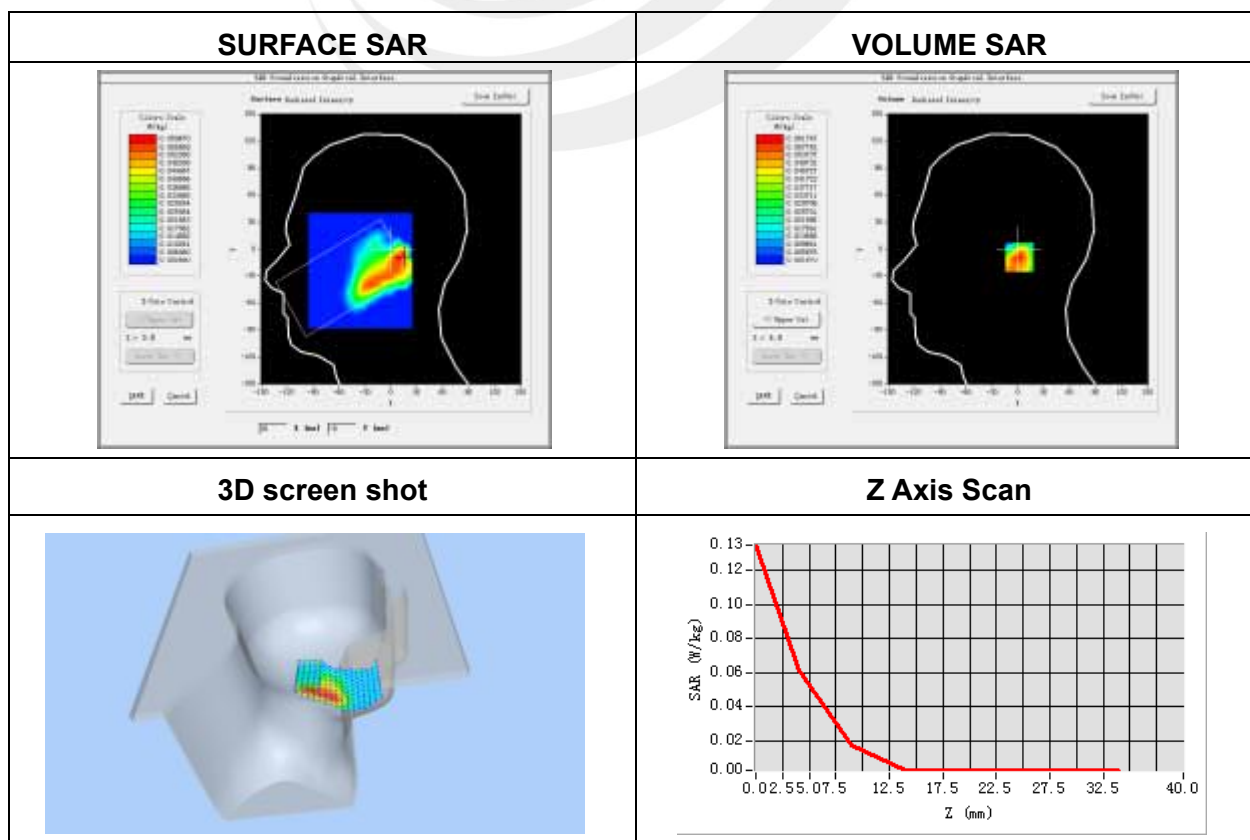
Plot 39: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.11
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Cheek
Band	IEEE 802.11b ISM
Channels	Middle
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2437
Relative permittivity (real part)	37.8
Conductivity (S/m)	1.86
Variation (%)	-0.70

Maximum location: X=11.00, Y=-9.00

SAR Peak: 0.13 W/kg

SAR 10g (W/Kg)	0.026315
SAR 1g (W/Kg)	0.062016



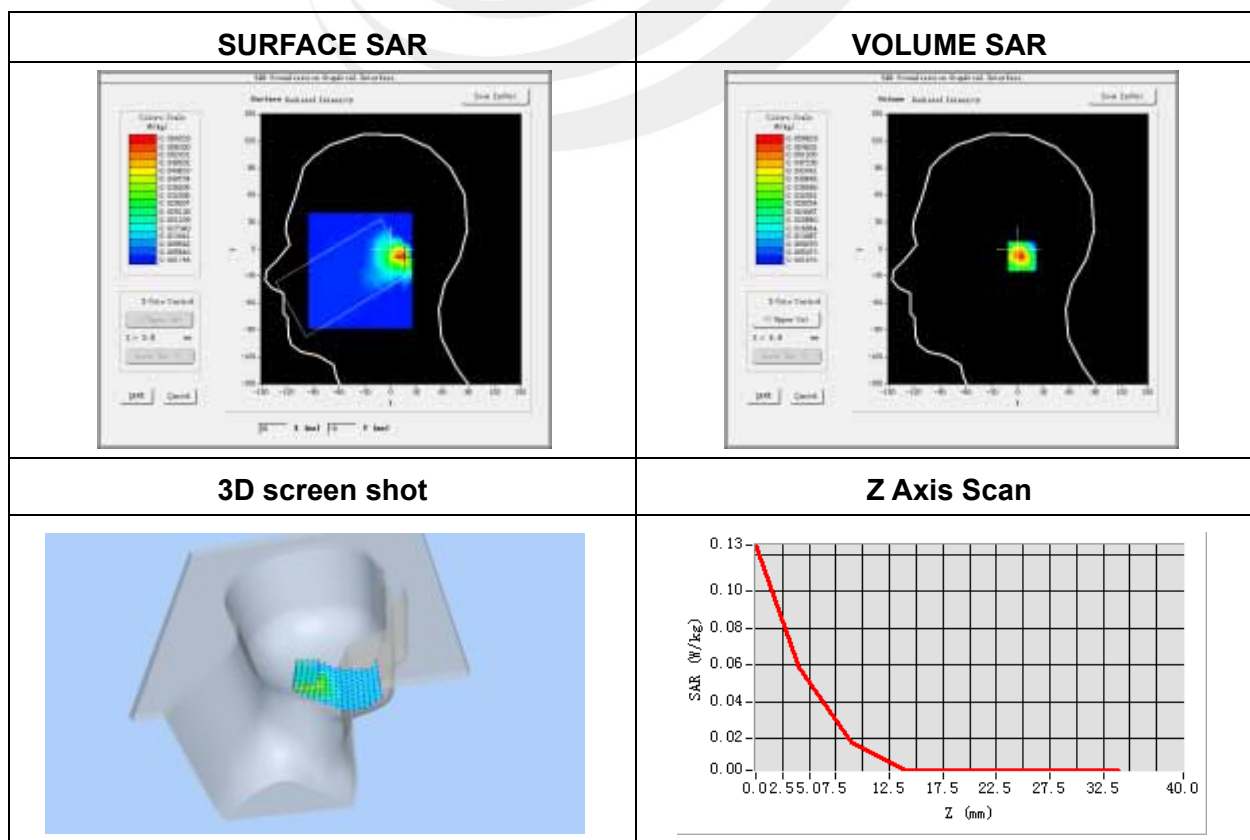
Plot 40: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.11
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Tilt
Band	IEEE 802.11b ISM
Channels	Middle
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2437
Relative permittivity (real part)	51.2
Conductivity (S/m)	1.95
Variation (%)	-4.68

Maximum location: X=14.00, Y=-8.00

SAR Peak: 0.12 W/kg

SAR 10g (W/Kg)	0.022497
SAR 1g (W/Kg)	0.057327



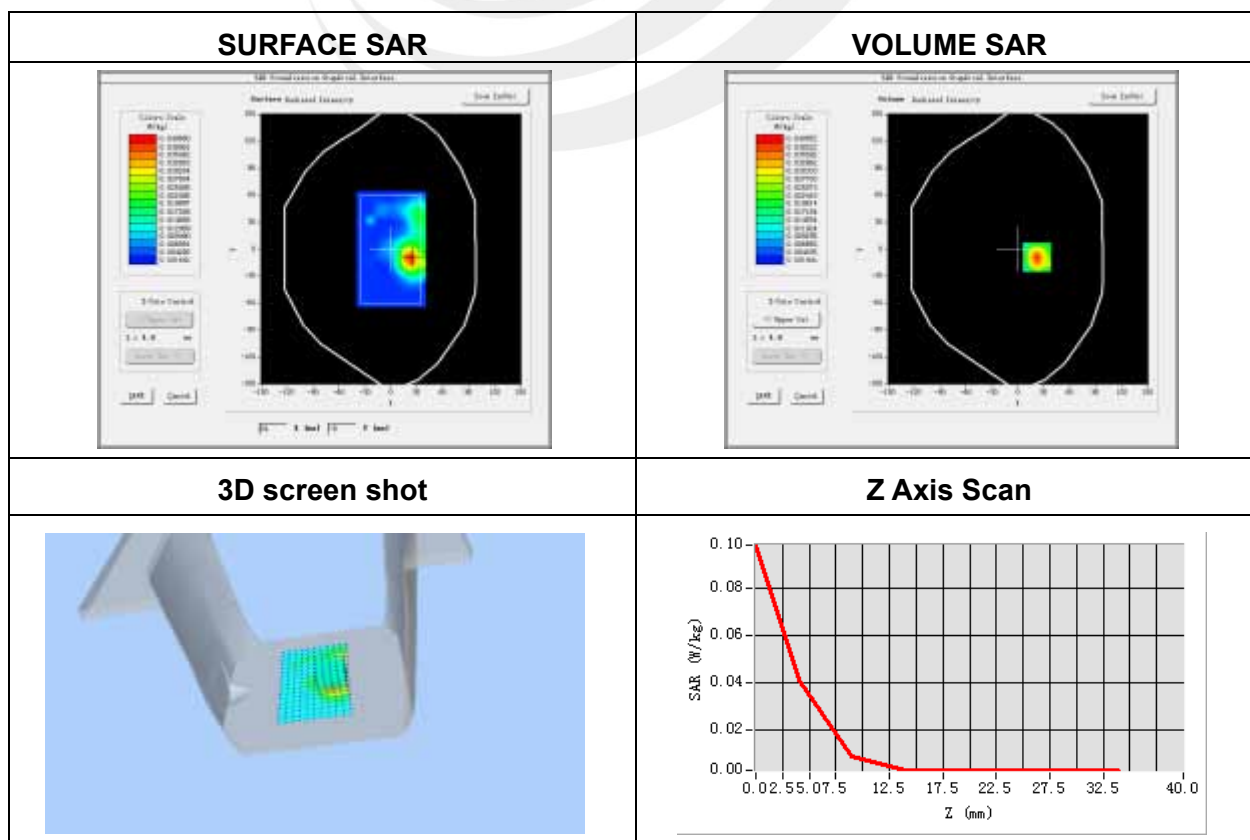
Plot 41: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.25
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Front
Band	IEEE 802.11b ISM
Channels	Middle
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2437
Relative permittivity (real part)	51.2
Conductivity (S/m)	1.95
Variation (%)	2.96

Maximum location: X=22.00, Y=-9.00

SAR Peak: 0.10 W/kg

SAR 10g (W/Kg)	0.016111
SAR 1g (W/Kg)	0.041413



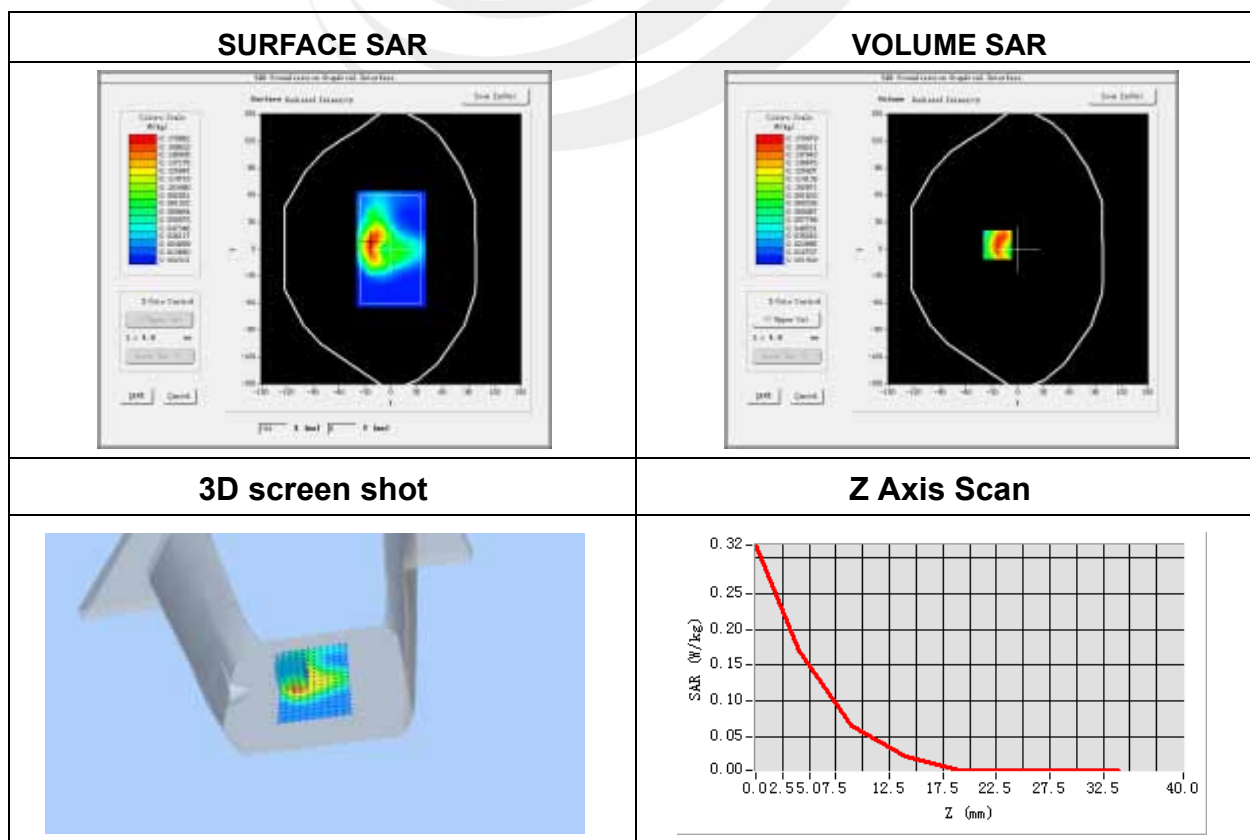
Plot 42: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.25
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Back
Band	IEEE 802.11b ISM
Channels	Middle
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2437
Relative permittivity (real part)	51.2
Conductivity (S/m)	1.95
Variation (%)	2.73

Maximum location: X=-24.00, Y=5.00

SAR Peak: 0.32 W/kg

SAR 10g (W/Kg)	0.071139
SAR 1g (W/Kg)	0.160761



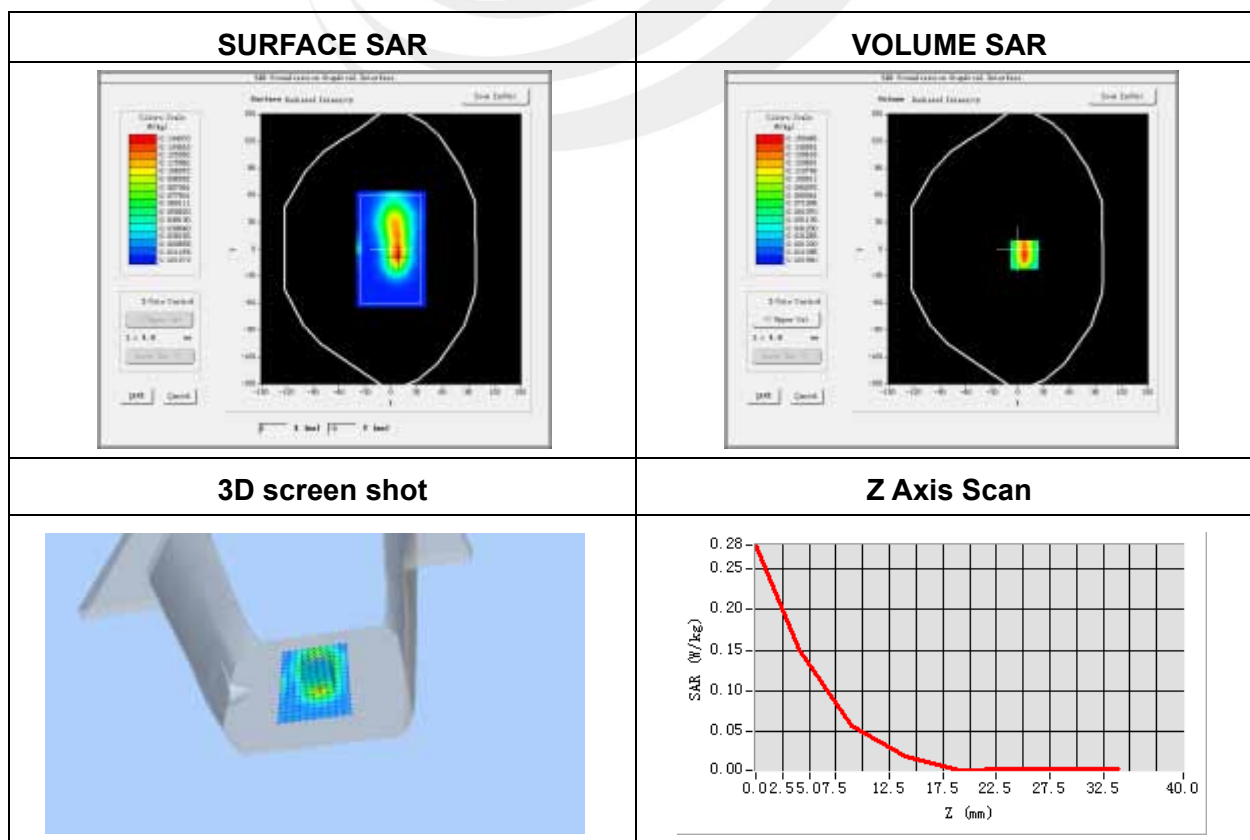
Plot 43: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.25
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body left side
Band	IEEE 802.11b ISM
Channels	Middle
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2437
Relative permittivity (real part)	51.2
Conductivity (S/m)	1.95
Variation (%)	-2.27

Maximum location: X=7.00, Y=-6.00

SAR Peak: 0.29 W/kg

SAR 10g (W/Kg)	0.057020
SAR 1g (W/Kg)	0.140758



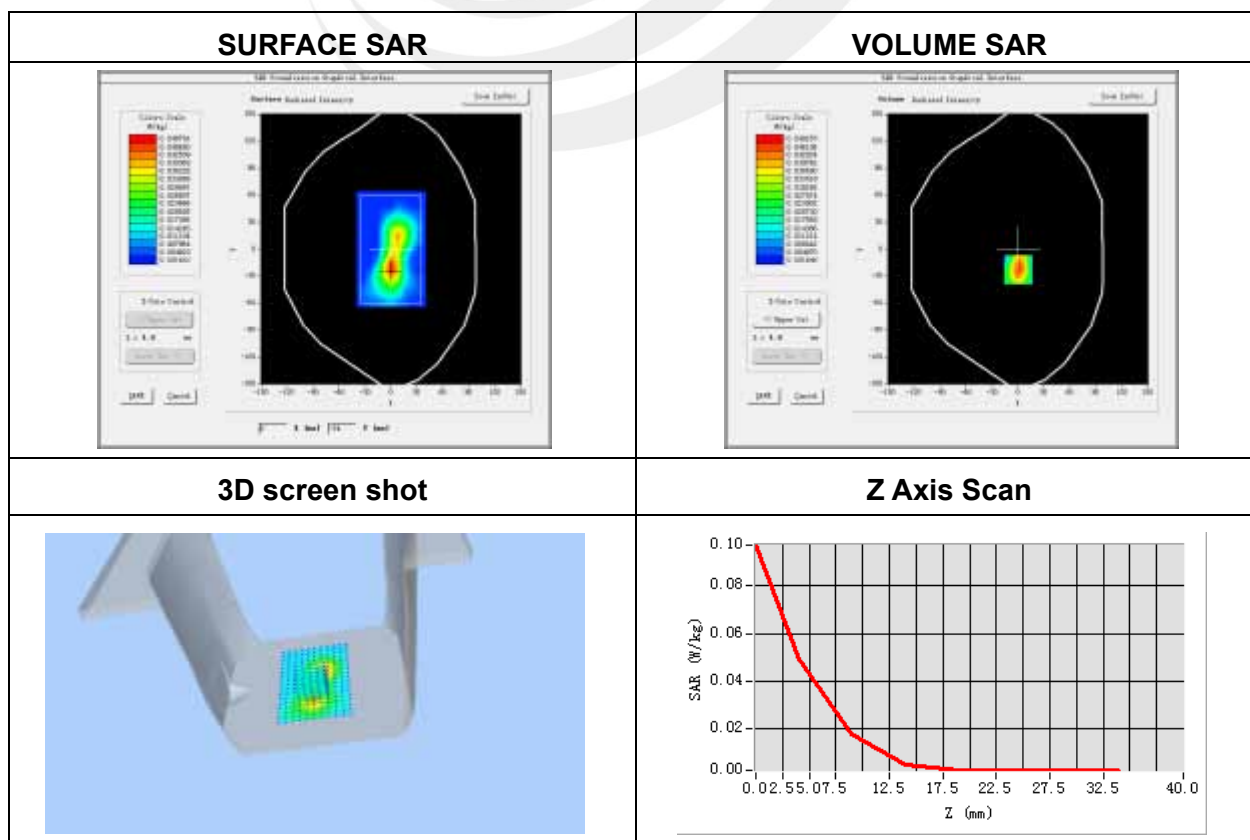
Plot 44: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.25
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Top side
Band	IEEE 802.11b ISM
Channels	Middle
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2437
Relative permittivity (real part)	51.2
Conductivity (S/m)	1.95
Variation (%)	-0.41

Maximum location: X=0.00, Y=-23.00

SAR Peak: 0.10 W/kg

SAR 10g (W/Kg)	0.020203
SAR 1g (W/Kg)	0.047974



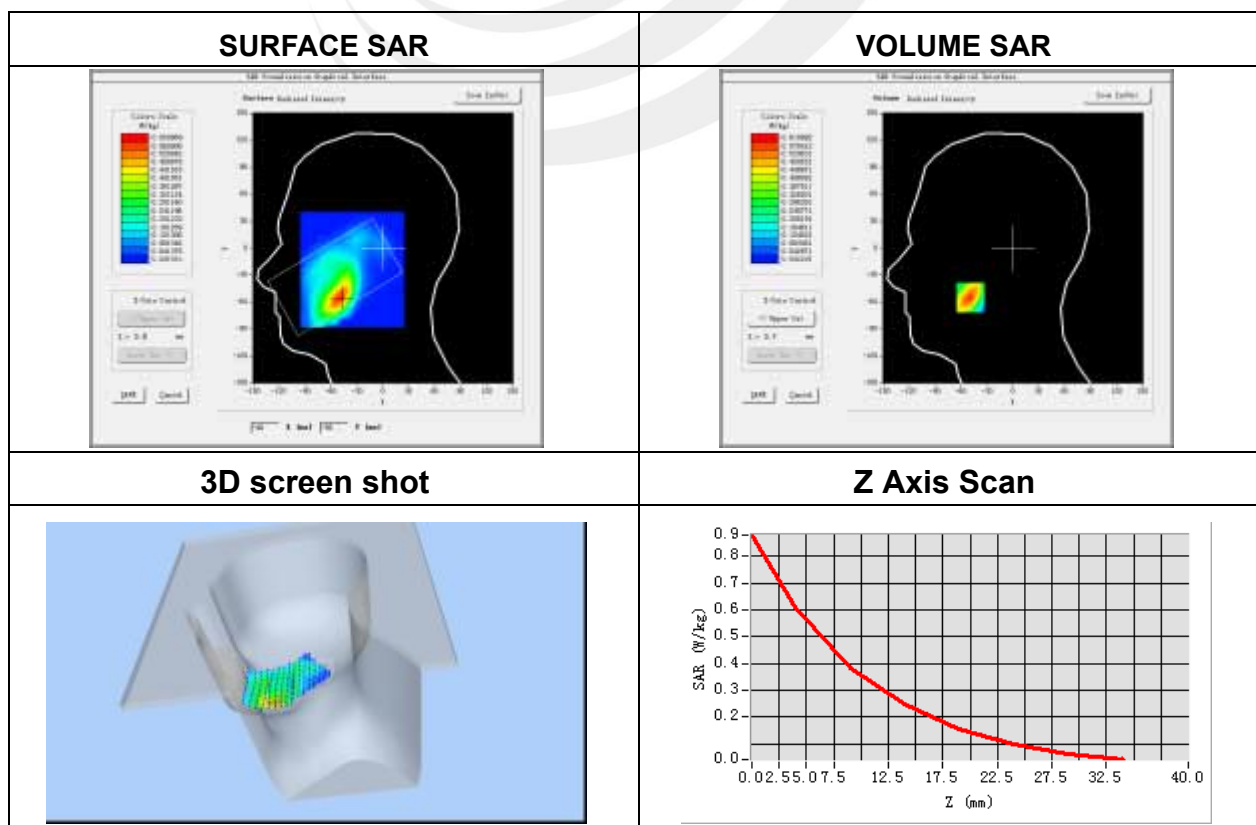
Plot 45: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.71
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 2 (RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1860.0
Relative permittivity (real part)	39.60
Conductivity (S/m)	1.38
Variation (%)	-1.08

Maximum location: X=-49.00, Y=-55.00

SAR Peak: 0.88 W/kg

SAR 10g (W/Kg)	0.327576
SAR 1g (W/Kg)	0.570788



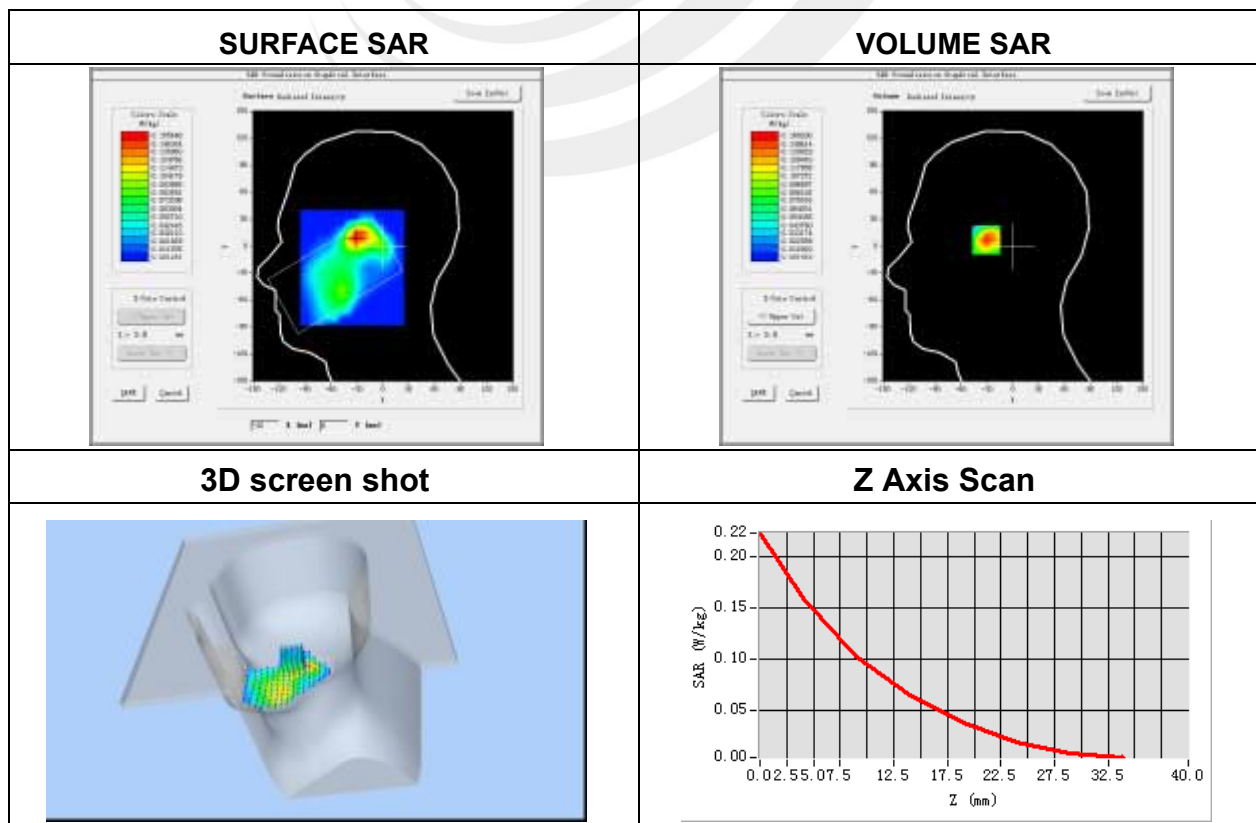
Plot 46 DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.71
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Tilt
Band	LTE Band 2 (RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1860.0
Relative permittivity (real part)	39.60
Conductivity (S/m)	1.38
Variation (%)	-0.96

Maximum location: X=-31.00, Y=10.00

SAR Peak: 0.23 W/kg

SAR 10g (W/Kg)	0.081998
SAR 1g (W/Kg)	0.149625

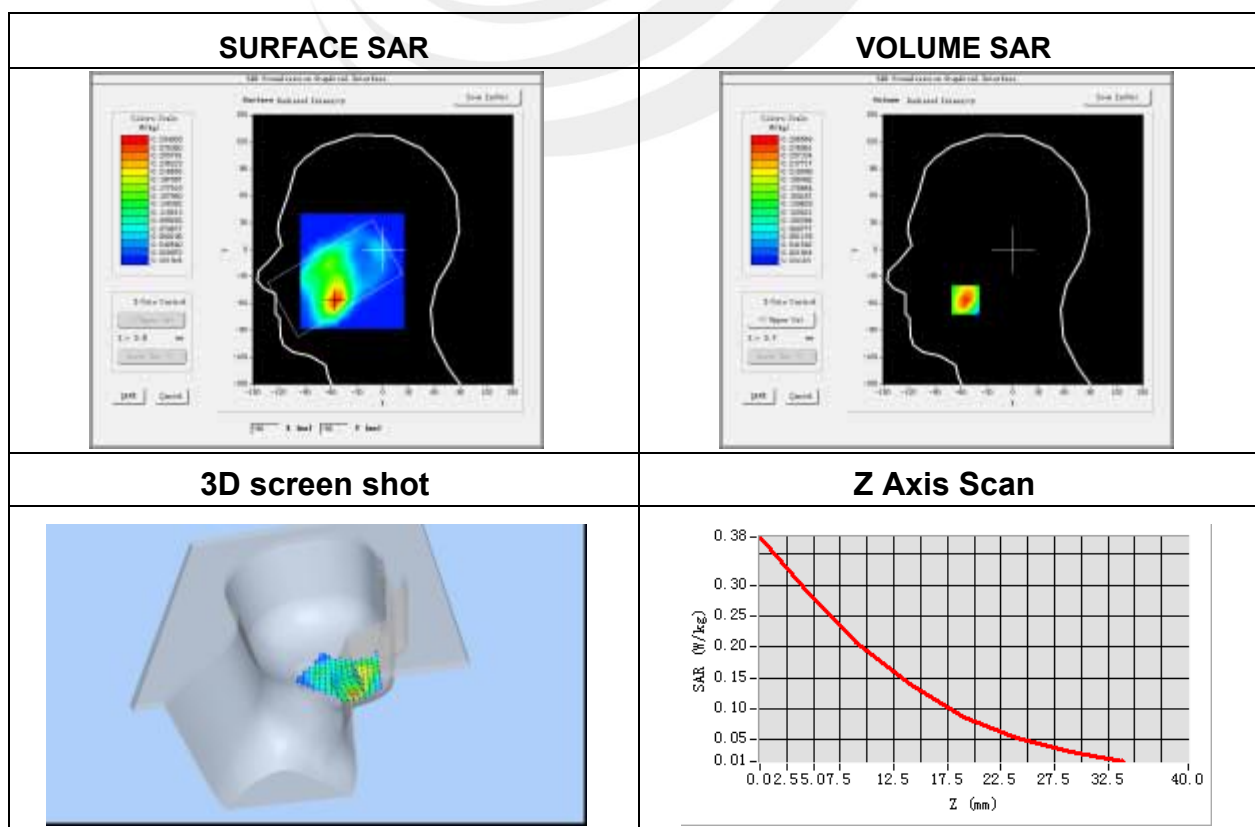


Plot 47: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.71
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Cheek
Band	LTE Band 2 (RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1860.0
Relative permittivity (real part)	39.60
Conductivity (S/m)	1.38
Variation (%)	-0.62

Maximum location: X=-55.00, Y=-56.00
SAR Peak: 0.45 W/kg

SAR 10g (W/Kg)	0.160749
SAR 1g (W/Kg)	0.282277

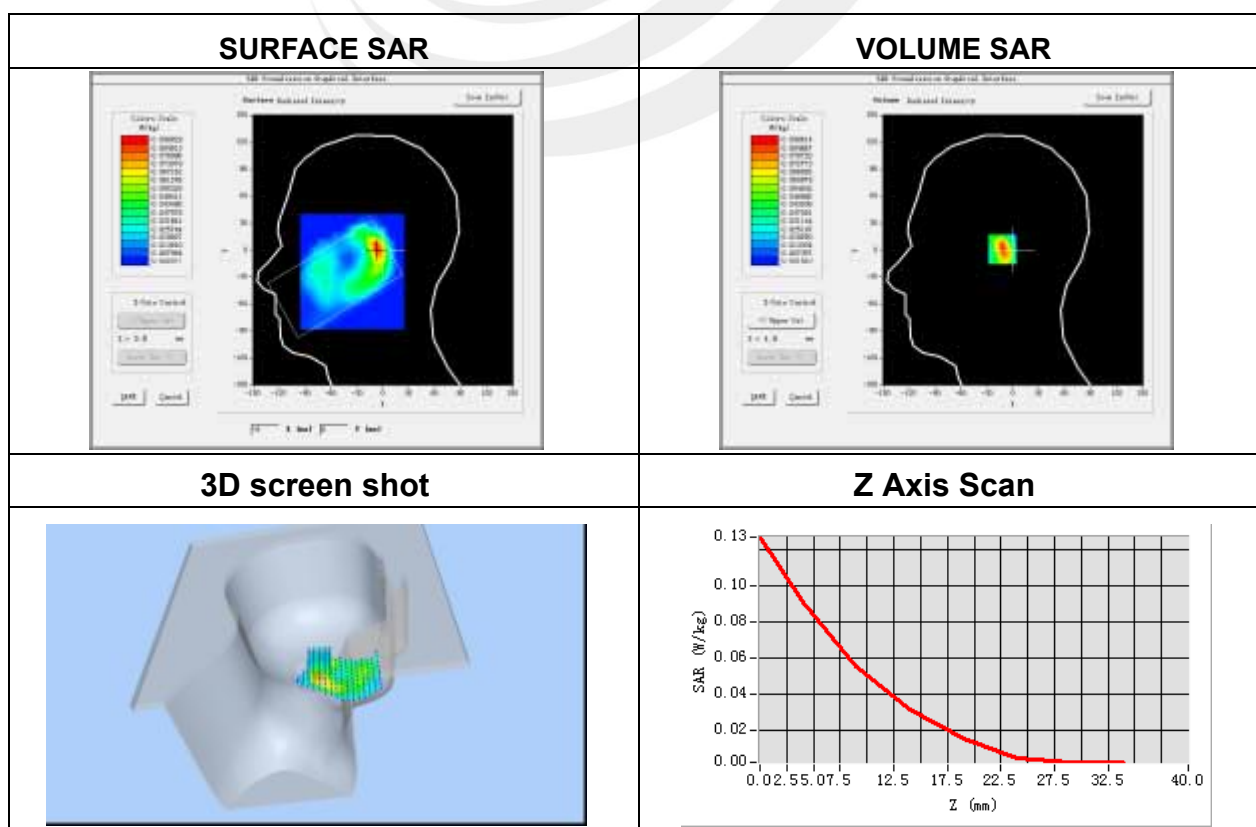


Plot 48: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.71
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Tilt
Band	LTE Band 2(RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1860.0
Relative permittivity (real part)	39.60
Conductivity (S/m)	1.38
Variation (%)	-1.22

Maximum location: X=-7.00, Y=1.00
SAR Peak: 0.13 W/kg

SAR 10g (W/Kg)	0.040479
SAR 1g (W/Kg)	0.081983



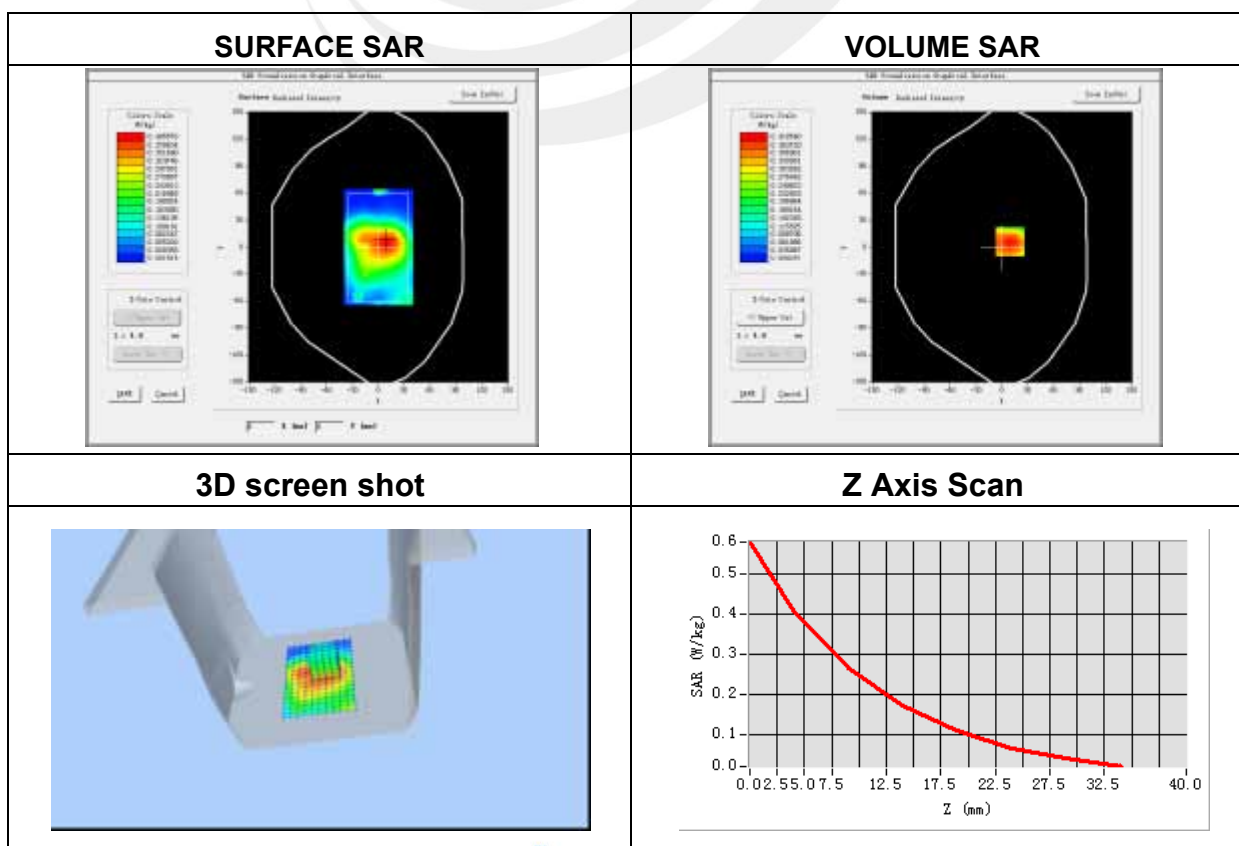
Plot 49: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body front
Band	LTE Band 2(RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1860.0
Relative permittivity (real part)	54.31
Conductivity (S/m)	1.55
Variation (%)	-0.81

Maximum location: X=9.00, Y=6.00

SAR Peak: 0.59 W/kg

SAR 10g (W/Kg)	0.231626
SAR 1g (W/Kg)	0.389300



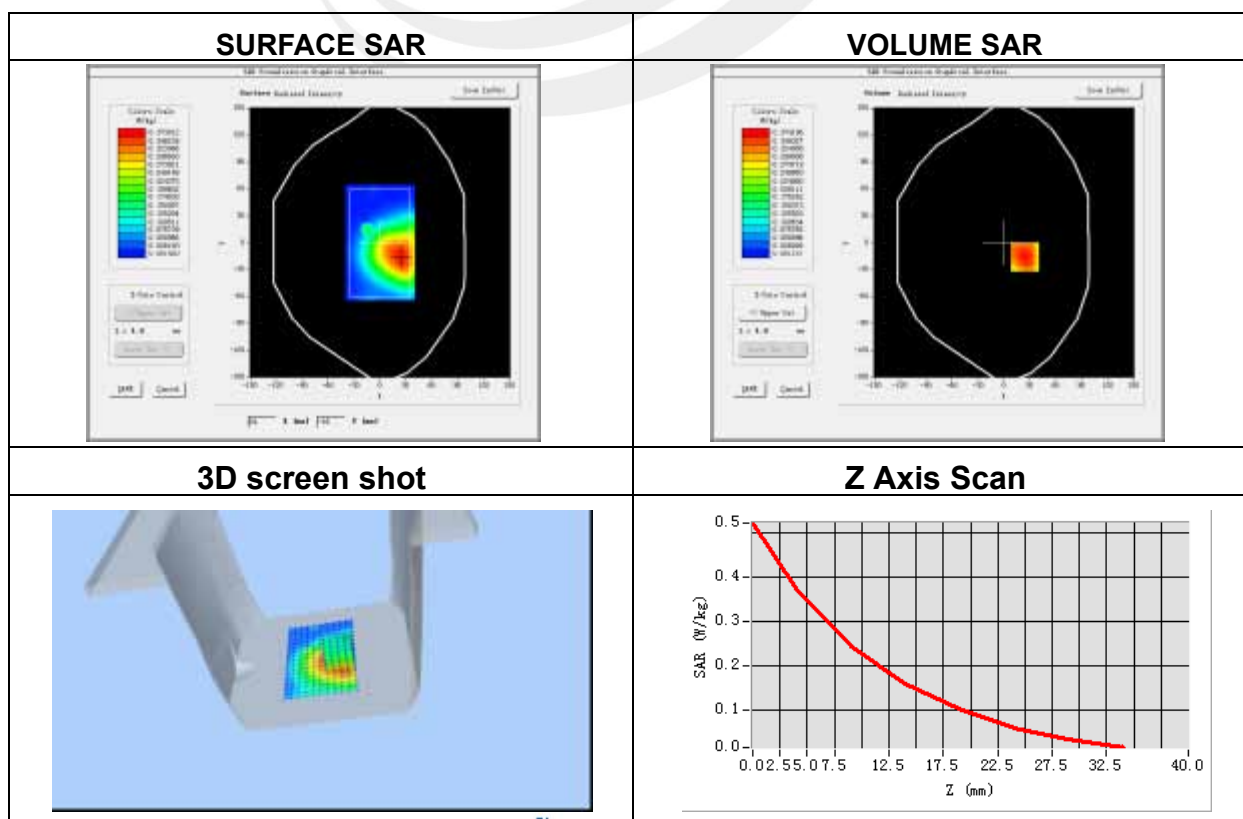
Plot 50: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	LTE Band 2(RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1860.0
Relative permittivity (real part)	54.31
Conductivity (S/m)	1.55
Variation (%)	-0.43

Maximum location: X=24.00, Y=-16.00

SAR Peak: 0.53 W/kg

SAR 10g (W/Kg)	0.224681
SAR 1g (W/Kg)	0.359674



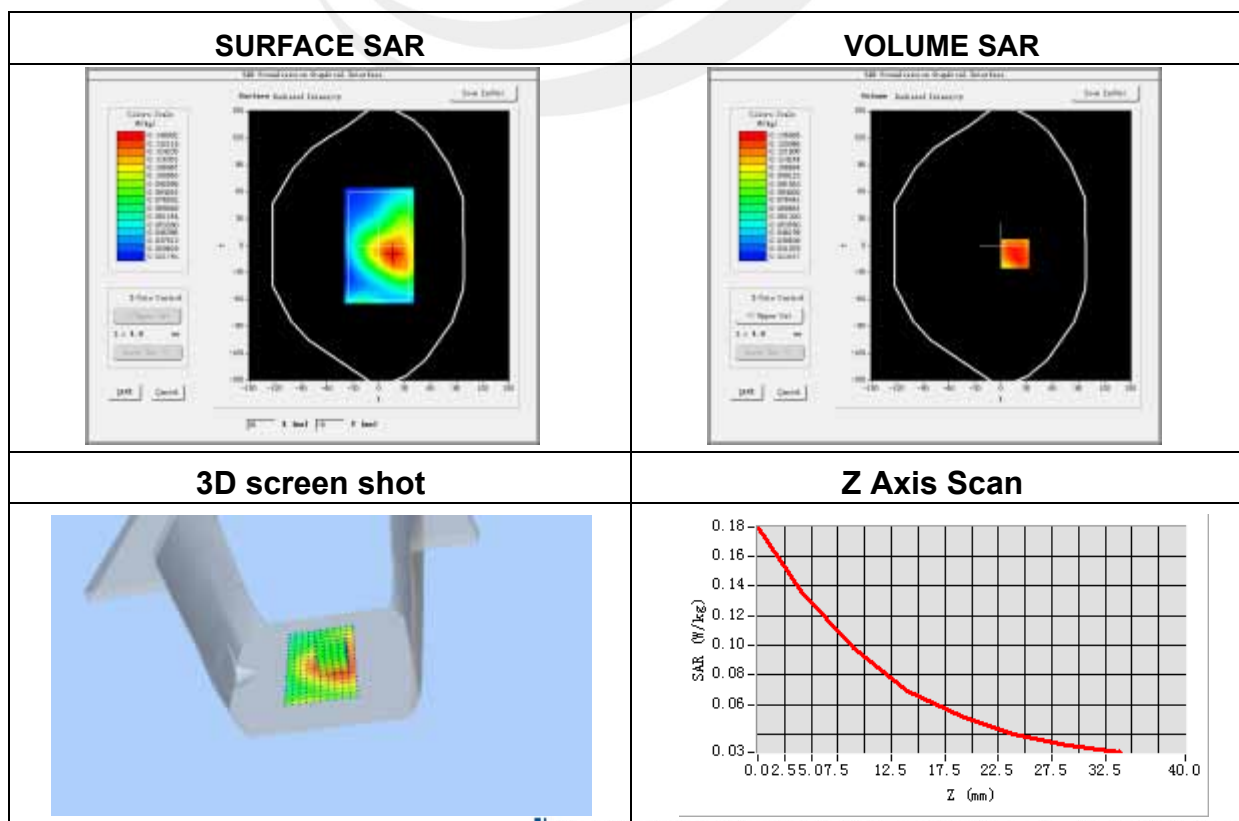
Plot 51: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body left side
Band	LTE Band 2(RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1860.0
Relative permittivity (real part)	54.31
Conductivity (S/m)	1.55
Variation (%)	-2.79

Maximum location: X=16.00, Y=-9.00

SAR Peak: 0.19 W/kg

SAR 10g (W/Kg)	0.091374
SAR 1g (W/Kg)	0.132291



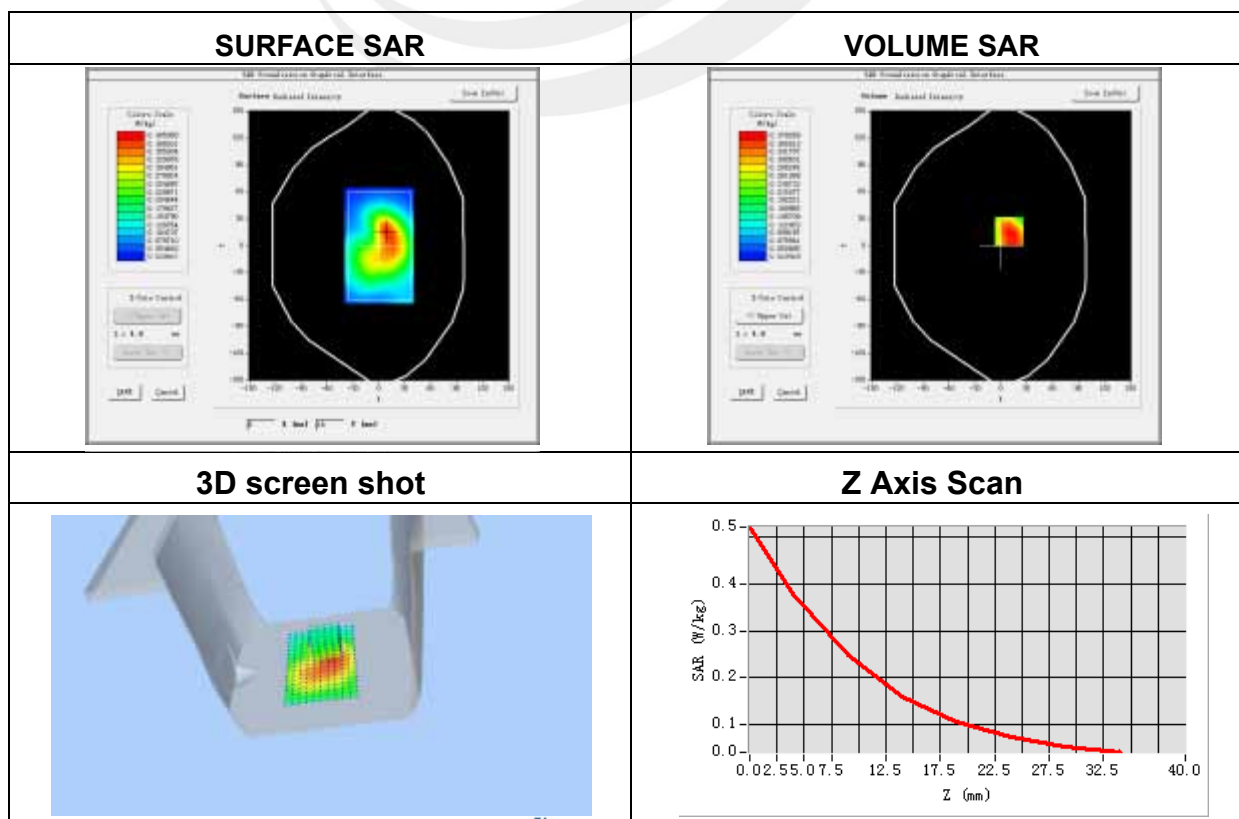
Plot 52: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Right side
Band	LTE Band 2(RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1860.0
Relative permittivity (real part)	54.31
Conductivity (S/m)	1.55
Variation (%)	-4.67

Maximum location: X=9.00, Y=16.00

SAR Peak: 0.54 W/kg

SAR 10g (W/Kg)	0.233179
SAR 1g (W/Kg)	0.362737



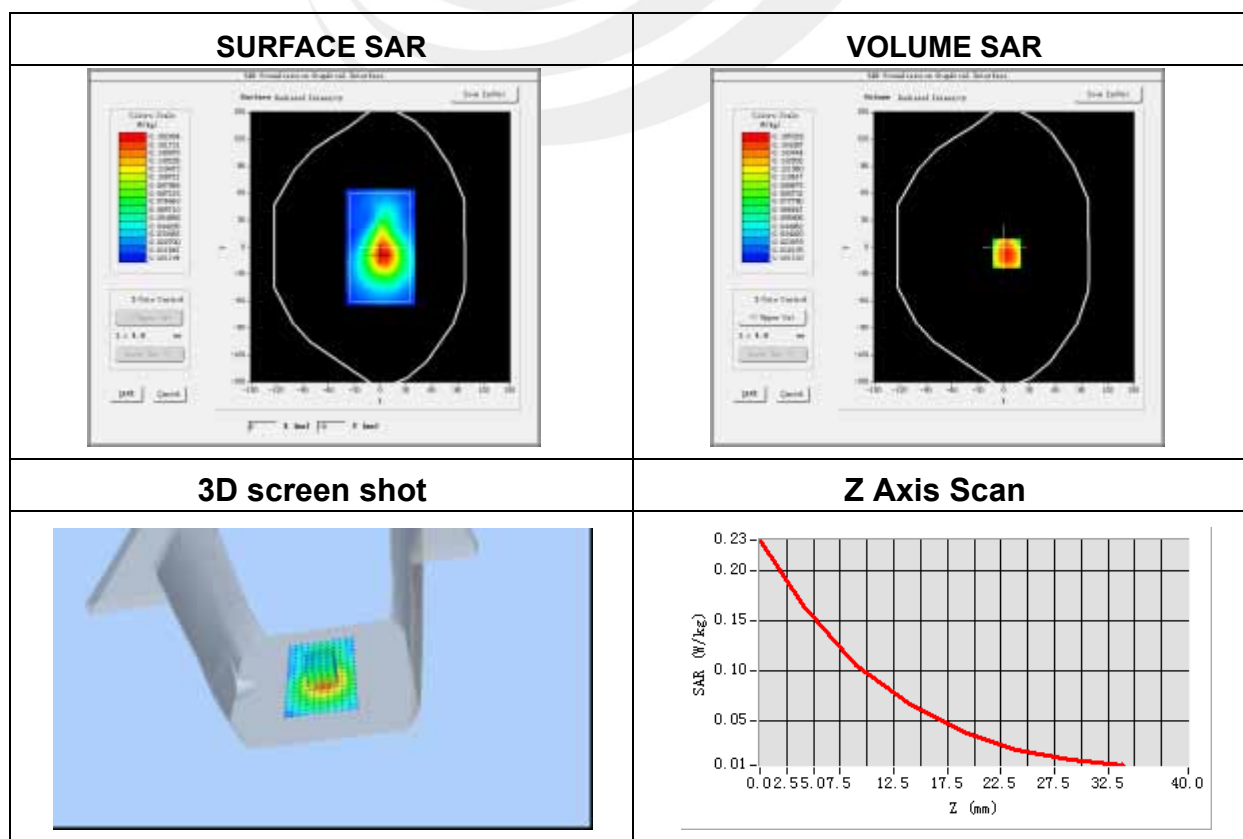
Plot 53: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body bottom side
Band	LTE Band 2(RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1860.0
Relative permittivity (real part)	54.31
Conductivity (S/m)	1.55
Variation (%)	-1.43

Maximum location: X=3.00, Y=-7.00

SAR Peak: 0.23 W/kg

SAR 10g (W/Kg)	0.093892
SAR 1g (W/Kg)	0.157448



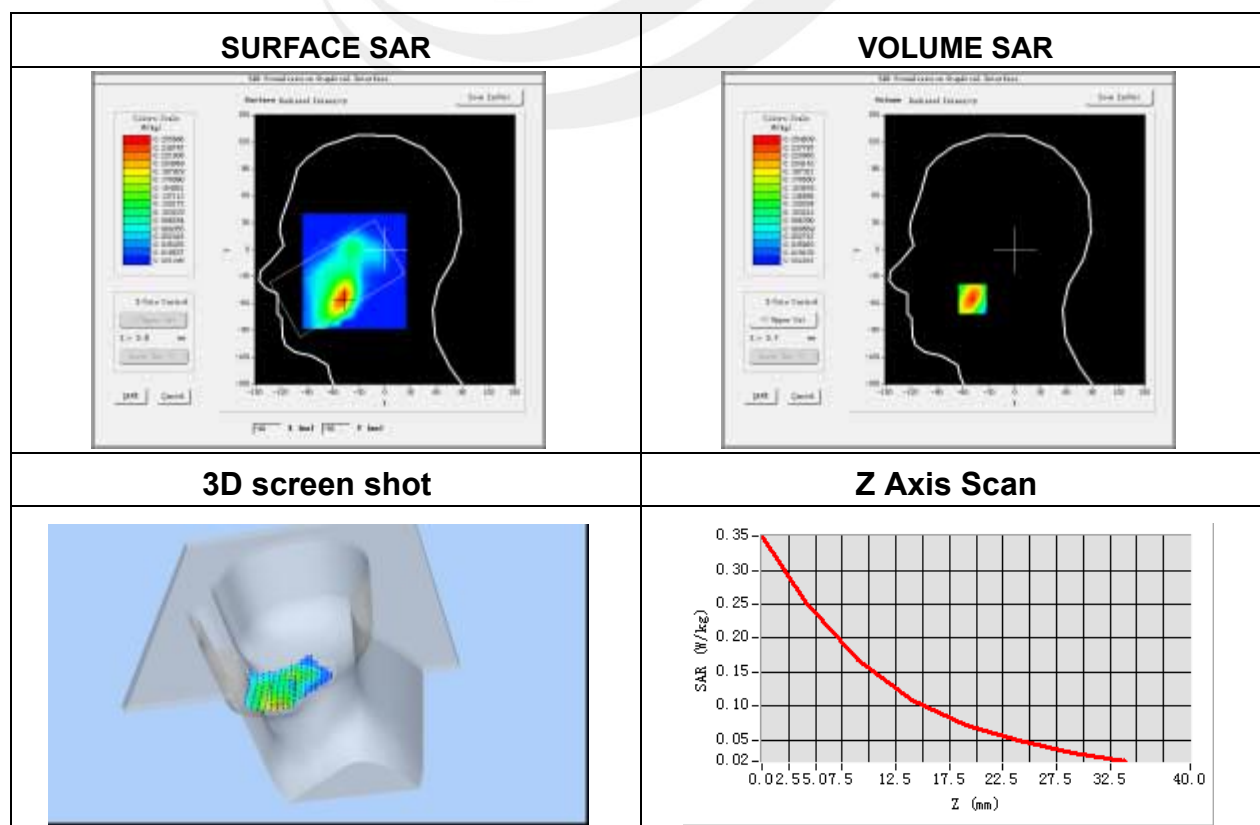
Plot 54: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.25
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 4 (RB 1)
Channels	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1732.5
Relative permittivity (real part)	40.2
Conductivity (S/m)	1.31
Variation (%)	-2.95

Maximum location: X=-49.00, Y=-55.00

SAR Peak: 0.36 W/kg

SAR 10g (W/Kg)	0.140269
SAR 1g (W/Kg)	0.238426



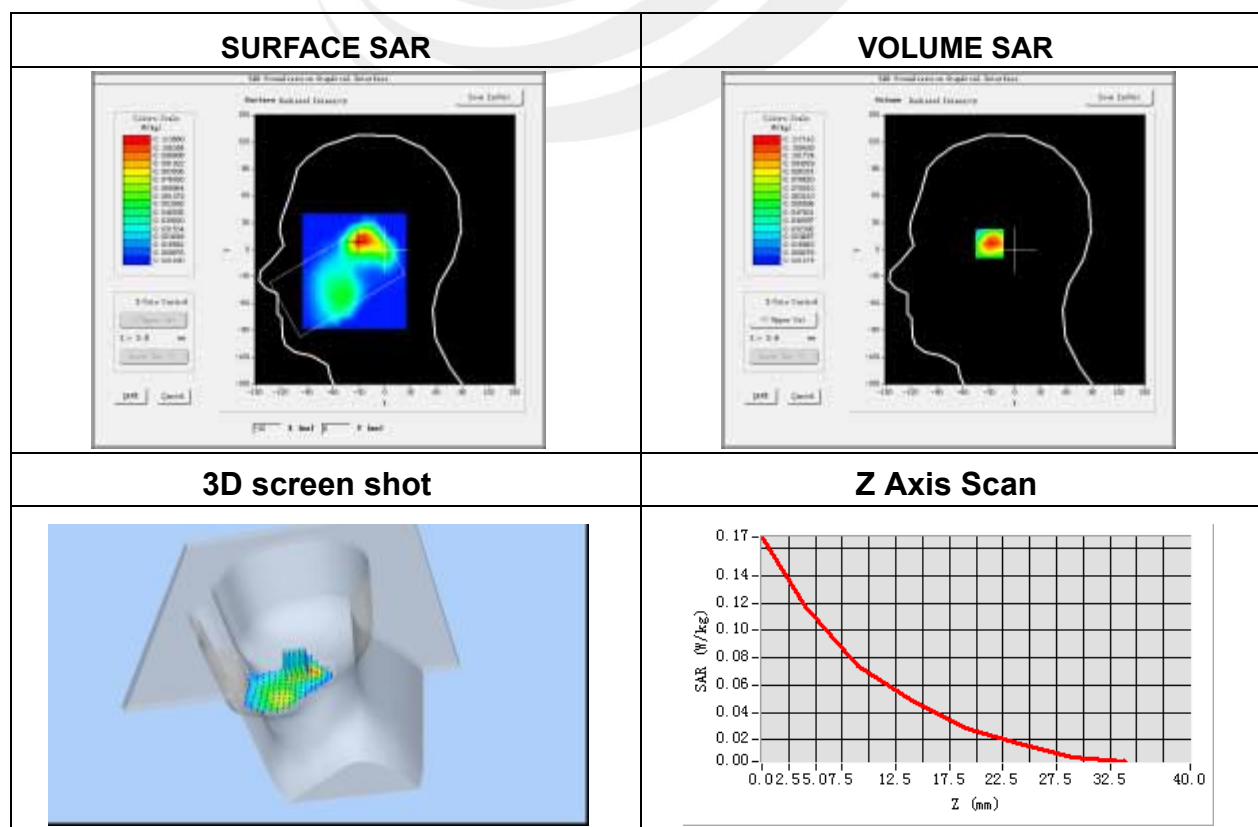
Plot 55: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.25
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Tilt
Band	LTE Band 4 (RB 1)
Channels	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1732.5
Relative permittivity (real part)	40.2
Conductivity (S/m)	1.31
Variation (%)	-2.04

Maximum location: X=-29.00, Y=10.00

SAR Peak: 0.17 W/kg

SAR 10g (W/Kg)	0.061178
SAR 1g (W/Kg)	0.111722

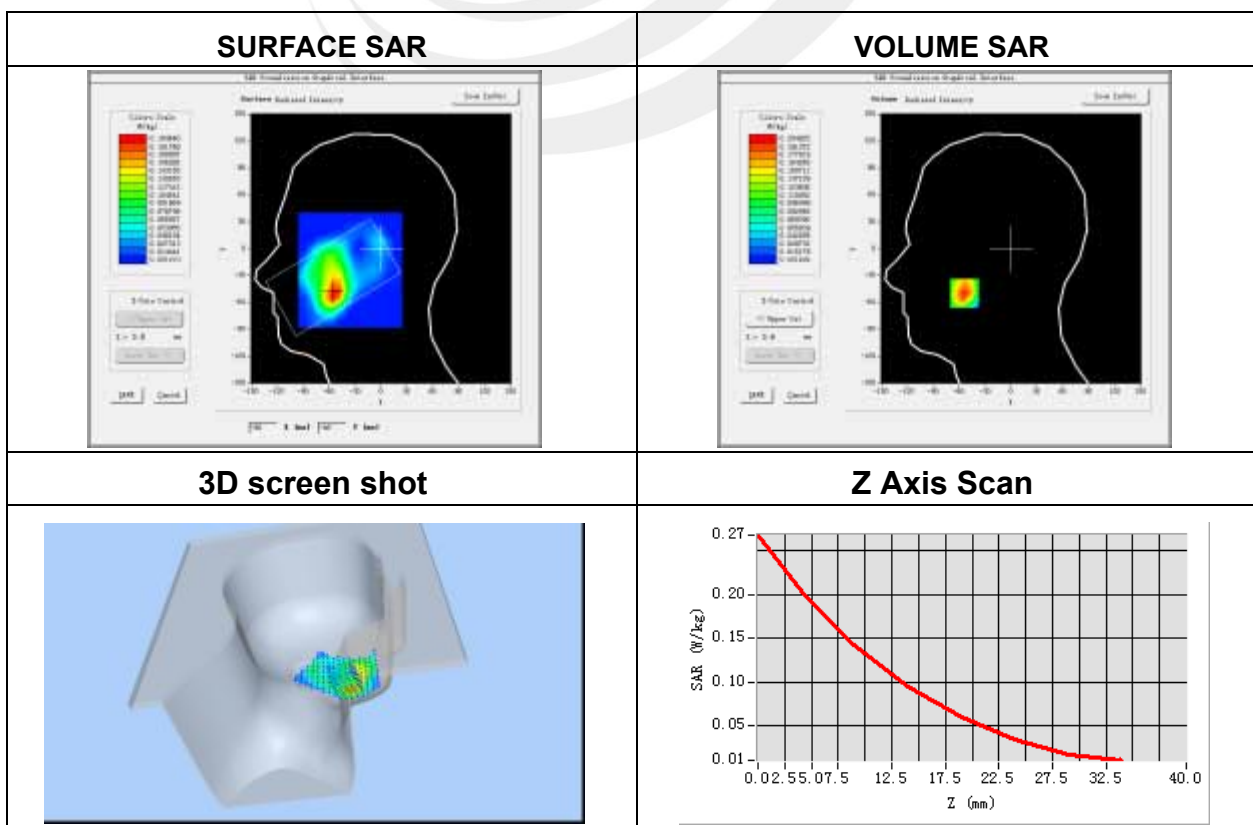


Plot 56: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.25
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Cheek
Band	LTE Band 4 (RB 1)
Channels	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1732.5
Relative permittivity (real part)	40.2
Conductivity (S/m)	1.31
Variation (%)	-4.15

Maximum location: X=-54.00, Y=-50.00
SAR Peak: 0.28 W/kg

SAR 10g (W/Kg)	0.111234
SAR 1g (W/Kg)	0.191616

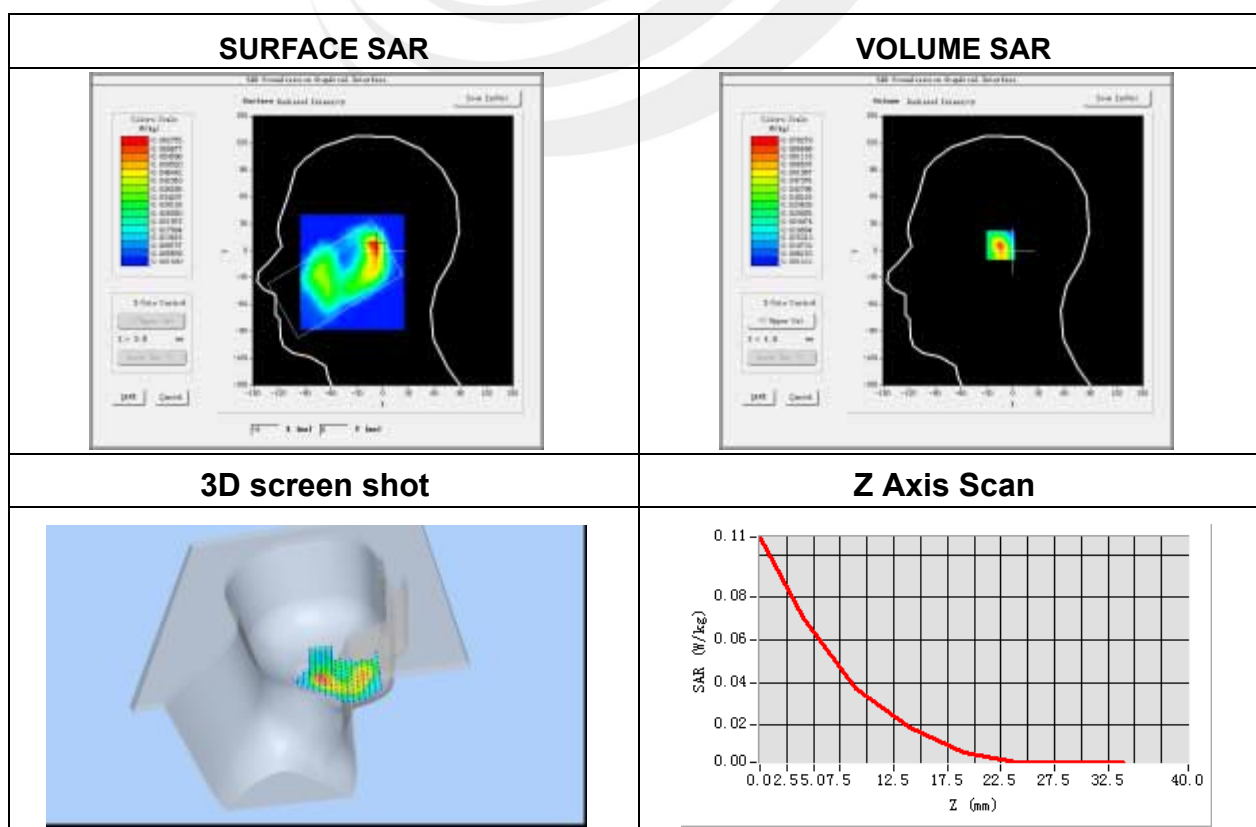


Plot 57: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.25
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Tilt
Band	LTE Band 4 (RB 1)
Channels	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1732.5
Relative permittivity (real part)	40.2
Conductivity (S/m)	1.31
Variation (%)	-2.63

Maximum location: X=-10.00, Y=6.00
SAR Peak: 0.11 W/kg

SAR 10g (W/Kg)	0.029534
SAR 1g (W/Kg)	0.062150



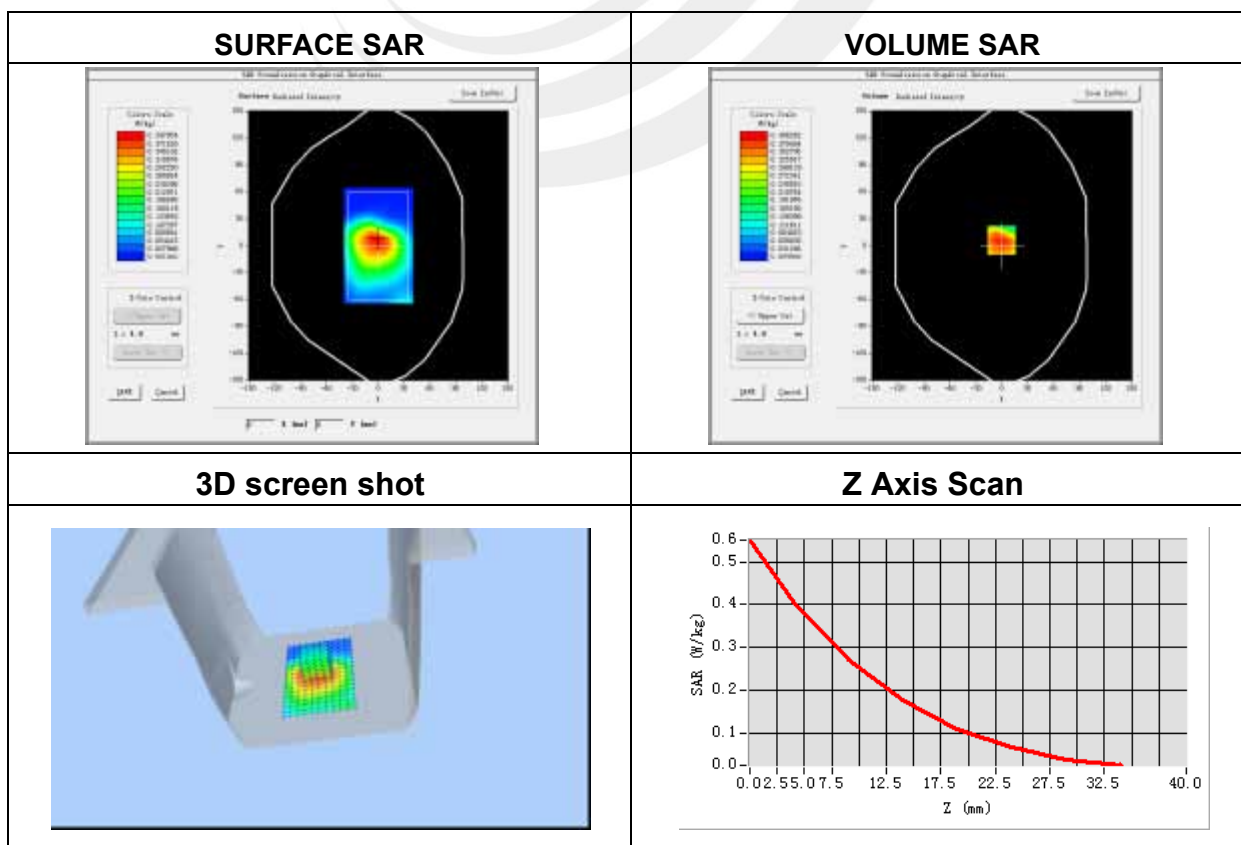
Plot 58: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.34
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body front
Band	LTE Band 4 (RB 1)
Channels	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1732.5
Relative permittivity (real part)	52.6
Conductivity (S/m)	1.38
Variation (%)	-0.47

Maximum location: X=-1.00, Y=6.00

SAR Peak: 0.55 W/kg

SAR 10g (W/Kg)	0.241243
SAR 1g (W/Kg)	0.384683



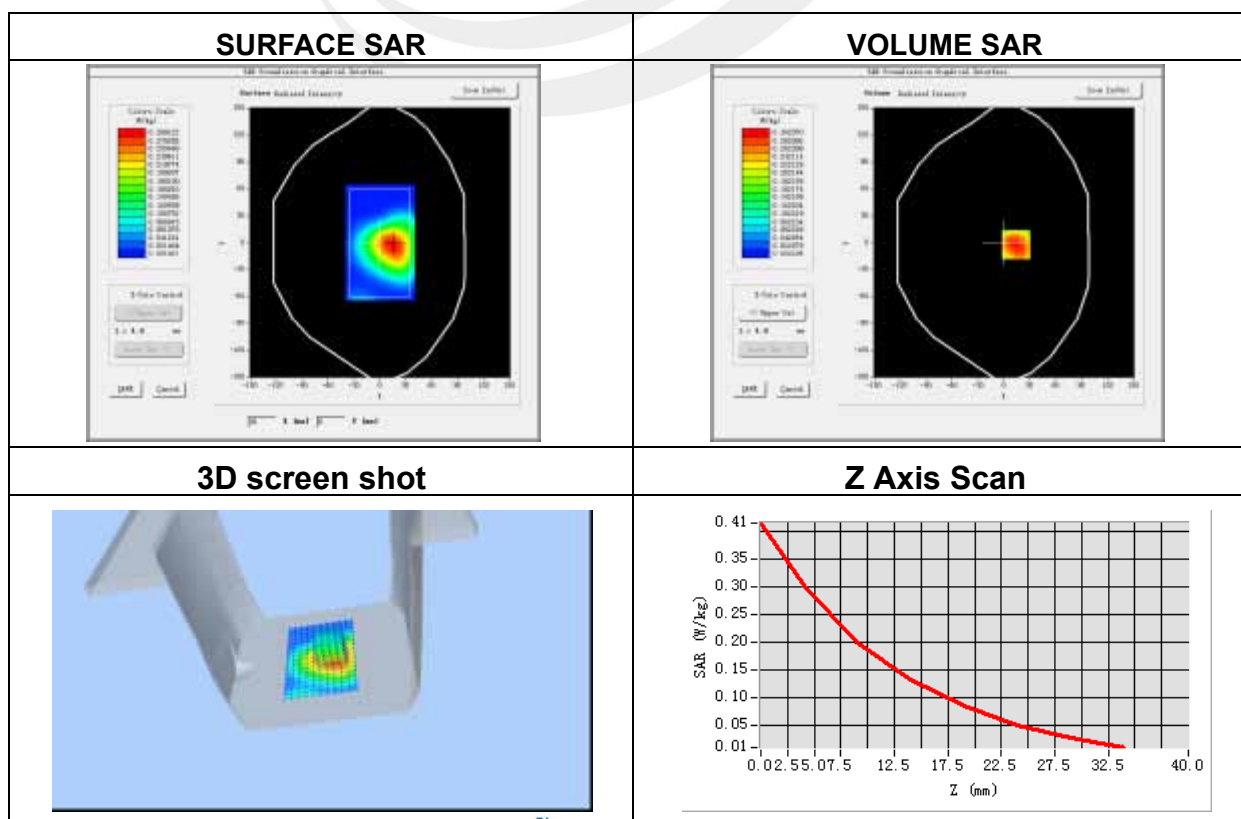
Plot 59: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.34
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	LTE Band 4 (RB 1)
Channels	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1732.5
Relative permittivity (real part)	52.6
Conductivity (S/m)	1.38
Variation (%)	-2.50

Maximum location: X=14.00, Y=-2.00

SAR Peak: 0.42 W/kg

SAR 10g (W/Kg)	0.181989
SAR 1g (W/Kg)	0.289620



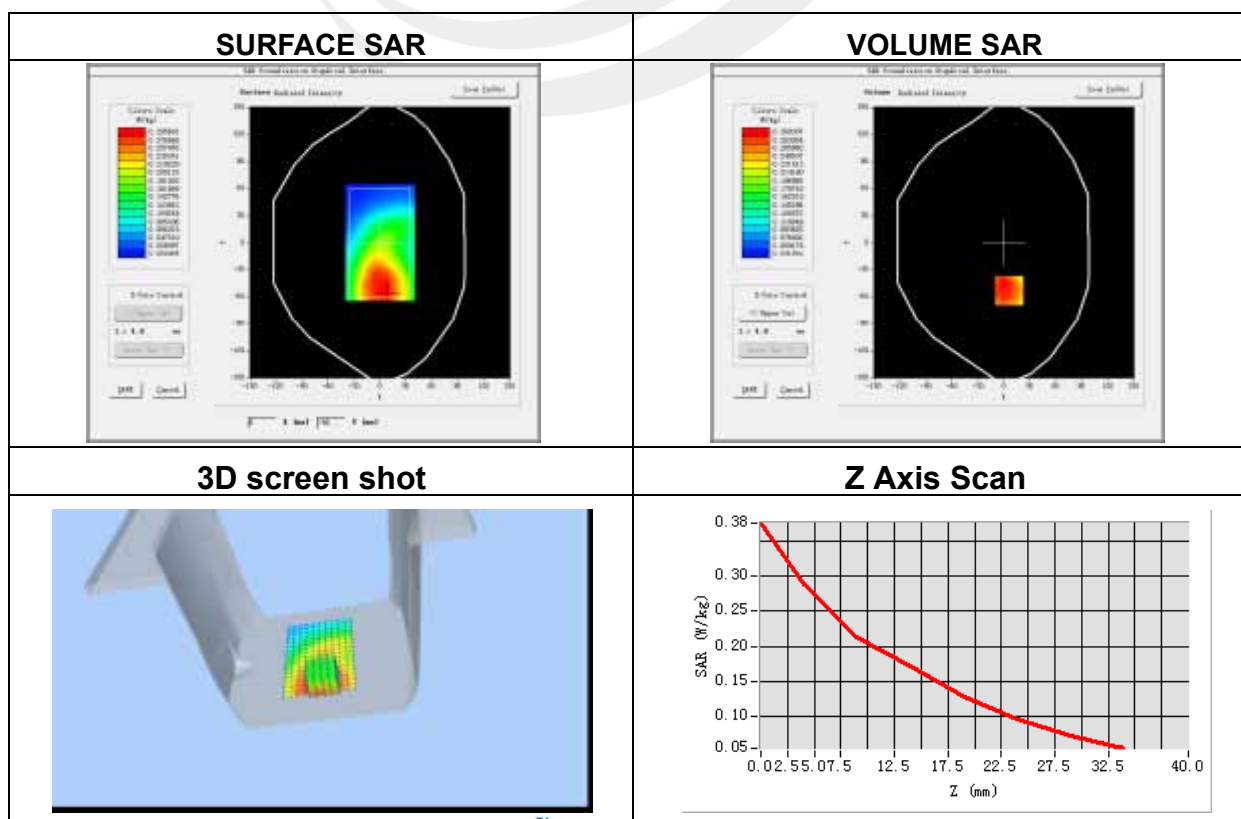
Plot 60: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.34
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Left
Band	LTE Band 4 (RB 1)
Channels	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1732.5
Relative permittivity (real part)	52.6
Conductivity (S/m)	1.38
Variation (%)	-2.39

Maximum location: X=14.00, Y=-2.00

SAR Peak: 0.42 W/kg

SAR 10g (W/Kg)	0.209267
SAR 1g (W/Kg)	0.295828



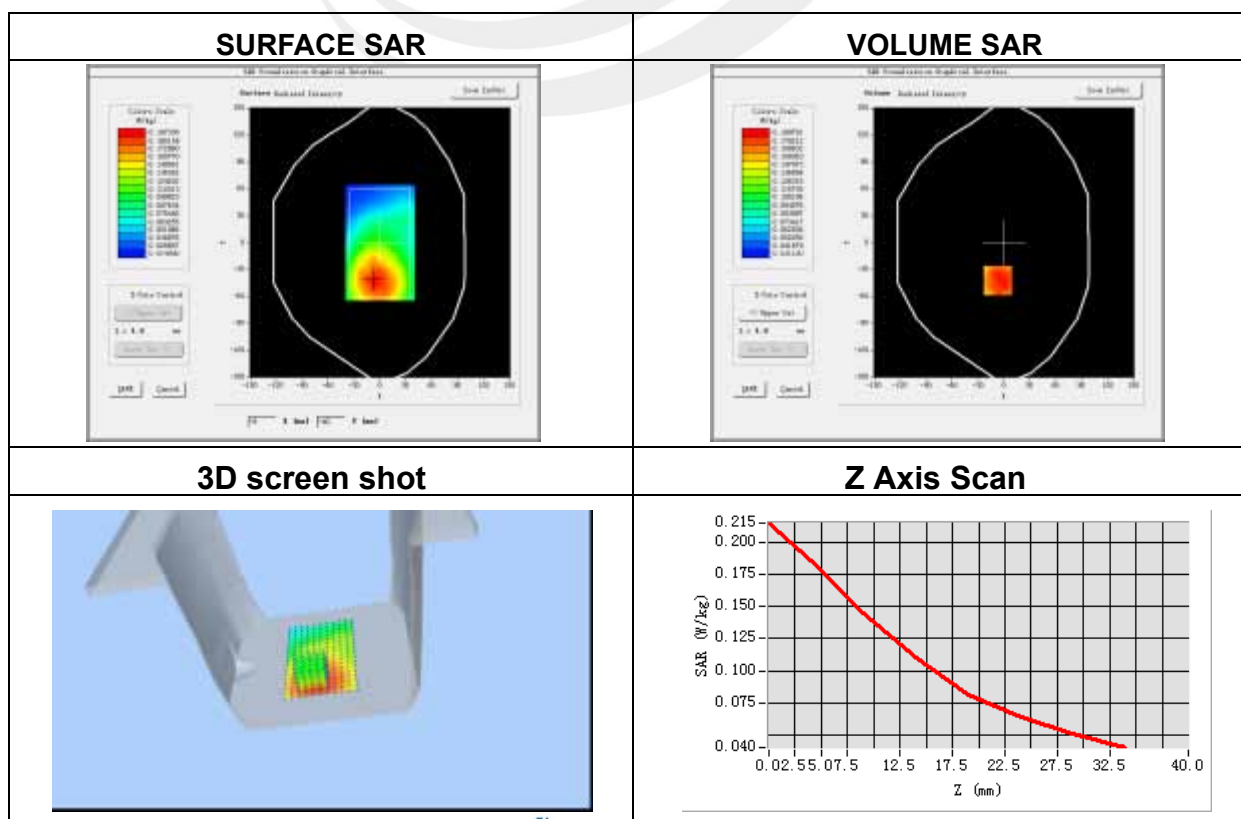
Plot 61: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.34
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Right
Band	LTE Band 4 (RB 1)
Channels	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1732.5
Relative permittivity (real part)	52.6
Conductivity (S/m)	1.38
Variation (%)	-1.25

Maximum location: X=-7.00, Y=-42.00

SAR Peak: 0.26 W/kg

SAR 10g (W/Kg)	0.133697
SAR 1g (W/Kg)	0.185021



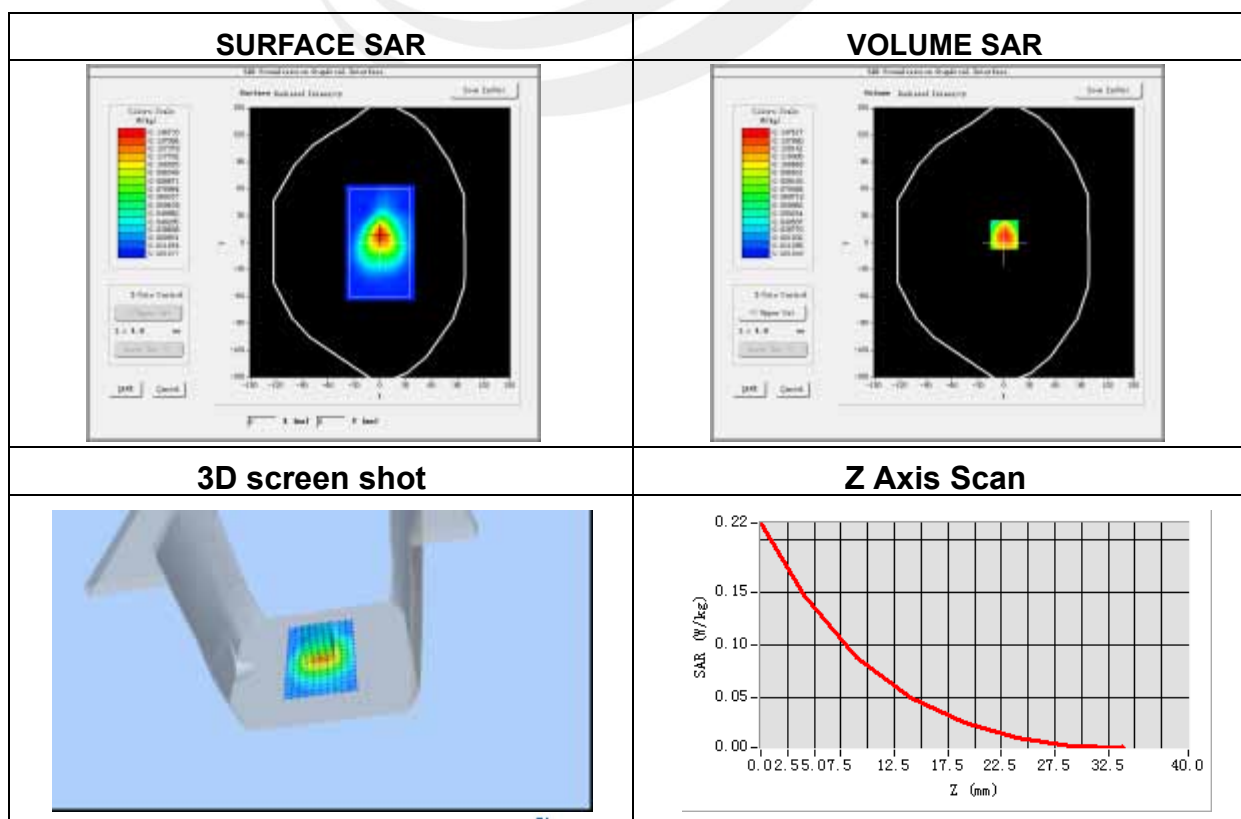
Plot 62: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.34
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Bottom
Band	LTE Band 4 (RB 1)
Channels	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1732.5
Relative permittivity (real part)	52.6
Conductivity (S/m)	1.38
Variation (%)	-1.46

Maximum location: X=0.00, Y=9.00

SAR Peak: 0.22 W/kg

SAR 10g (W/Kg)	0.076969
SAR 1g (W/Kg)	0.139715



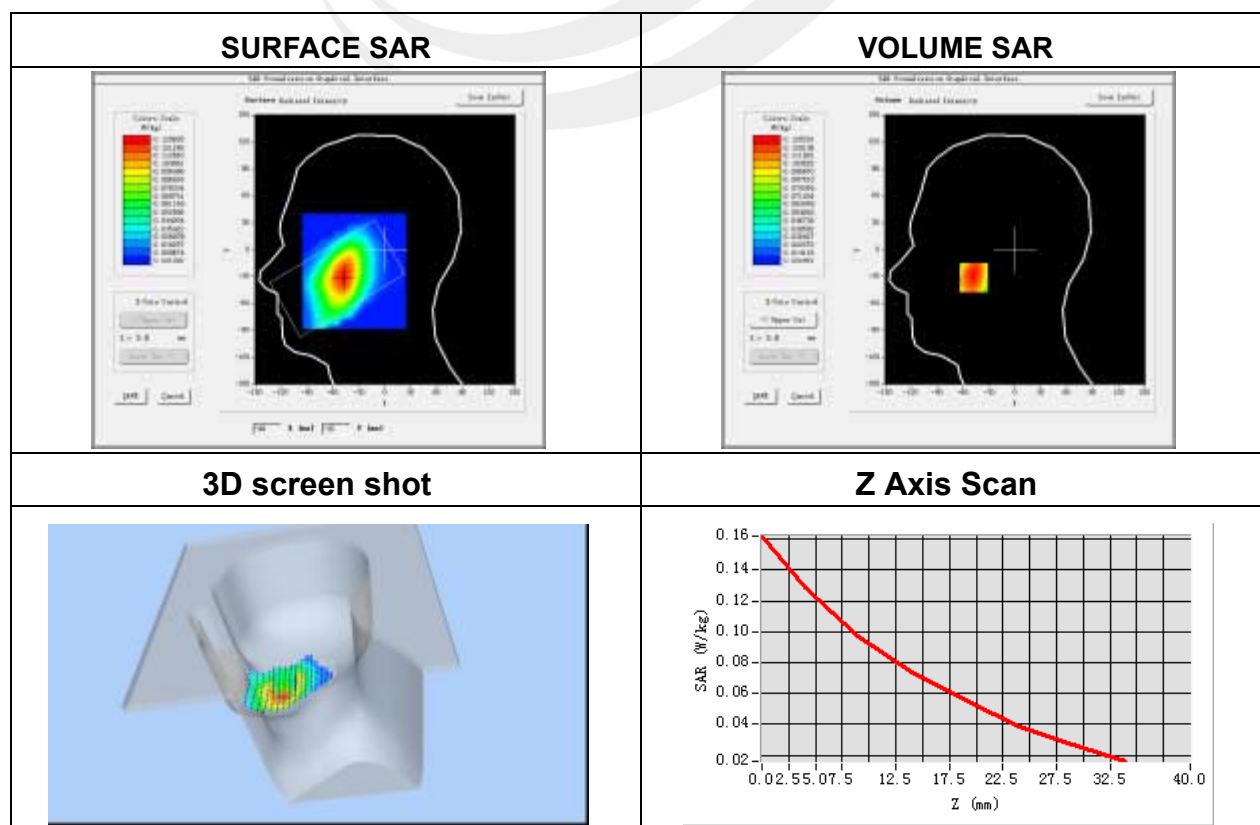
Plot 63: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.83
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 5 (RB 1)
Channels	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	836.5
Relative permittivity (real part)	43.39
Conductivity (S/m)	0.92
Variation (%)	-2.52

Maximum location: X=-48.00, Y=-31.00

SAR Peak: 0.16 W/kg

SAR 10g (W/Kg)	0.087633
SAR 1g (W/Kg)	0.125471



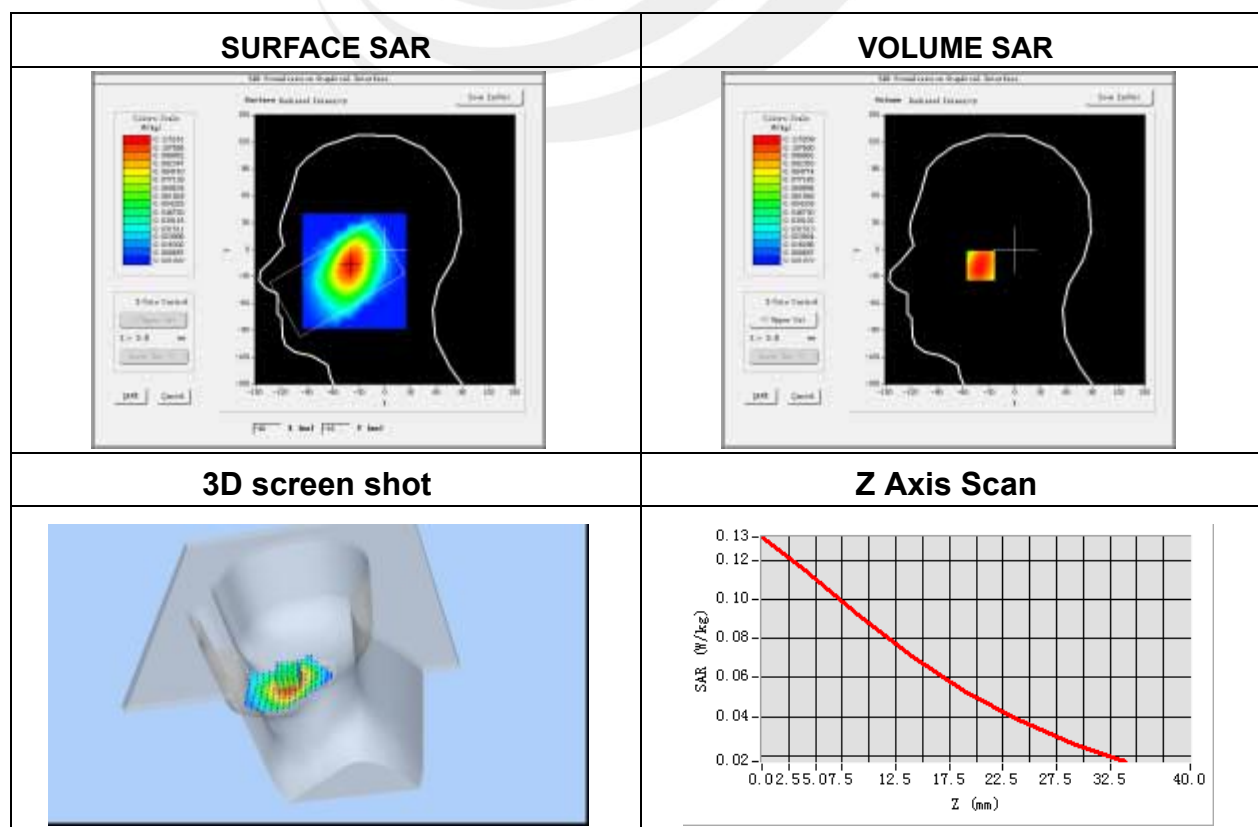
Plot 64: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.83
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Tilt
Band	LTE Band 5 (RB 1)
Channels	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	836.5
Relative permittivity (real part)	43.39
Conductivity (S/m)	0.92
Variation (%)	-2.79

Maximum location: X=-40.00, Y=-17.00

SAR Peak: 0.14 W/kg

SAR 10g (W/Kg)	0.080278
SAR 1g (W/Kg)	0.111390

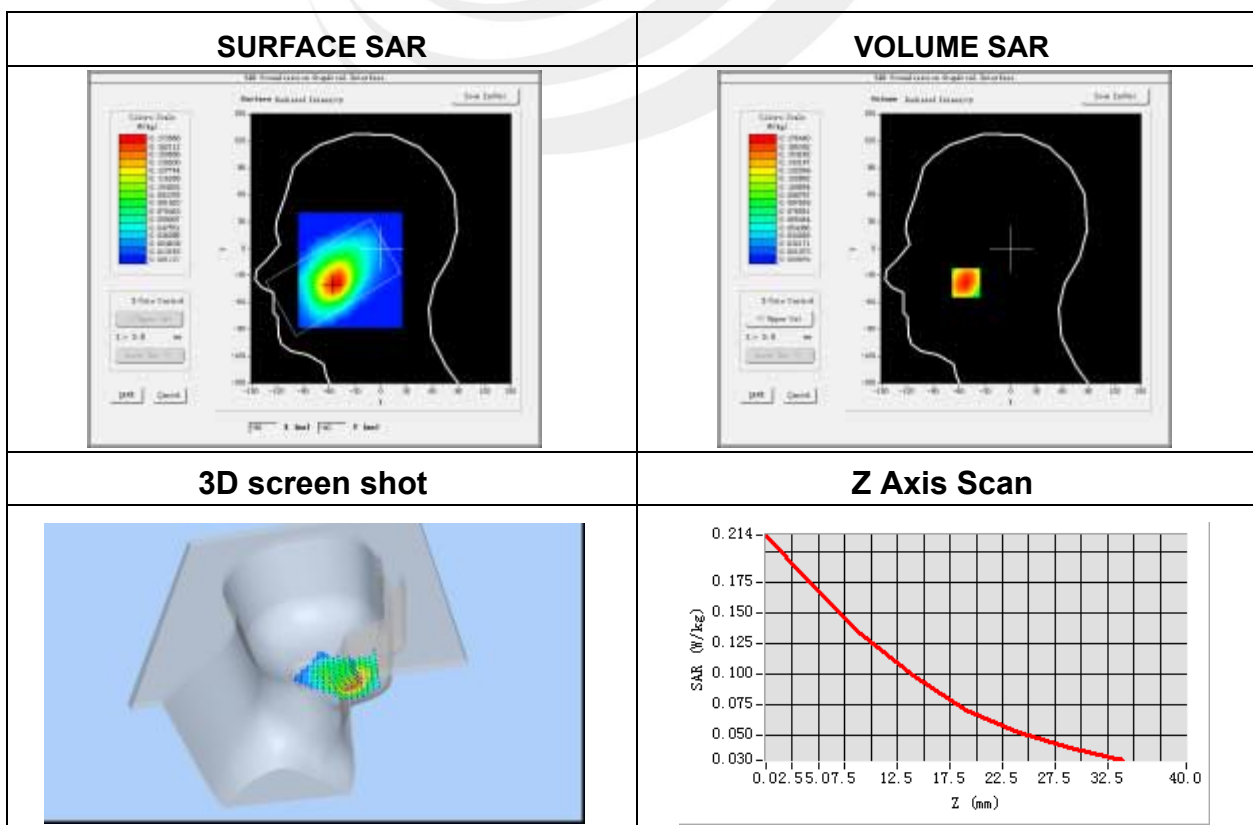


Plot 65: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.83
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Cheek
Band	LTE Band 5 (RB 1)
Channels	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	836.5
Relative permittivity (real part)	43.39
Conductivity (S/m)	0.92
Variation (%)	-2.75

Maximum location: X=-52.00, Y=-38.00
SAR Peak: 0.22 W/kg

SAR 10g (W/Kg)	0.116609
SAR 1g (W/Kg)	0.168039



Plot 66: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.83
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Tilt
Band	LTE Band 5 (RB 1)
Channels	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	836.5
Relative permittivity (real part)	43.39
Conductivity (S/m)	0.92
Variation (%)	-1.65

Maximum location: X=-38.00, Y=-24.00
SAR Peak: 0.14 W/kg

SAR 10g (W/Kg)	0.078071
SAR 1g (W/Kg)	0.106757



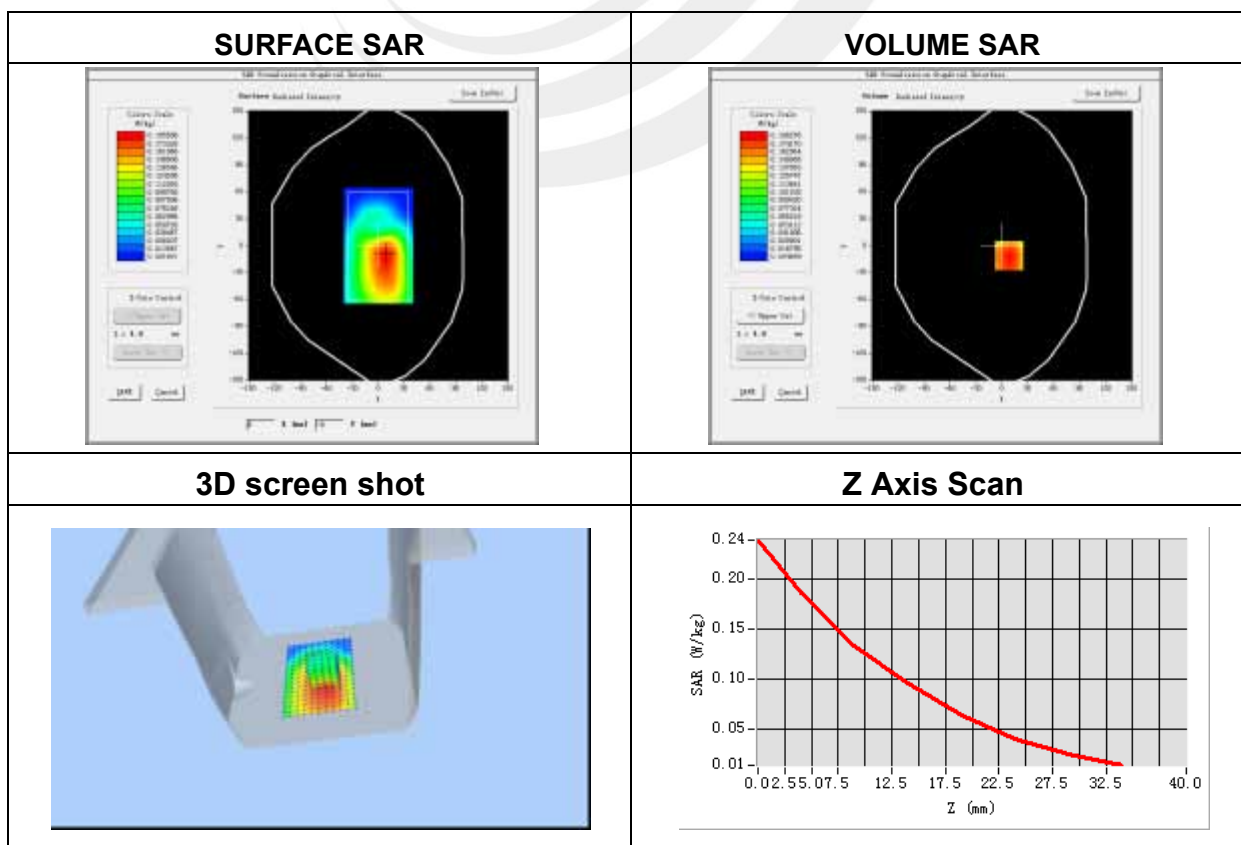
Plot 67: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.83
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body front
Band	LTE Band 5 (RB 1)
Channels	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	836.5
Relative permittivity (real part)	43.39
Conductivity (S/m)	0.92
Variation (%)	-1.11

Maximum location: X=8.00, Y=-11.00

SAR Peak: 0.24 W/kg

SAR 10g (W/Kg)	0.124255
SAR 1g (W/Kg)	0.180459



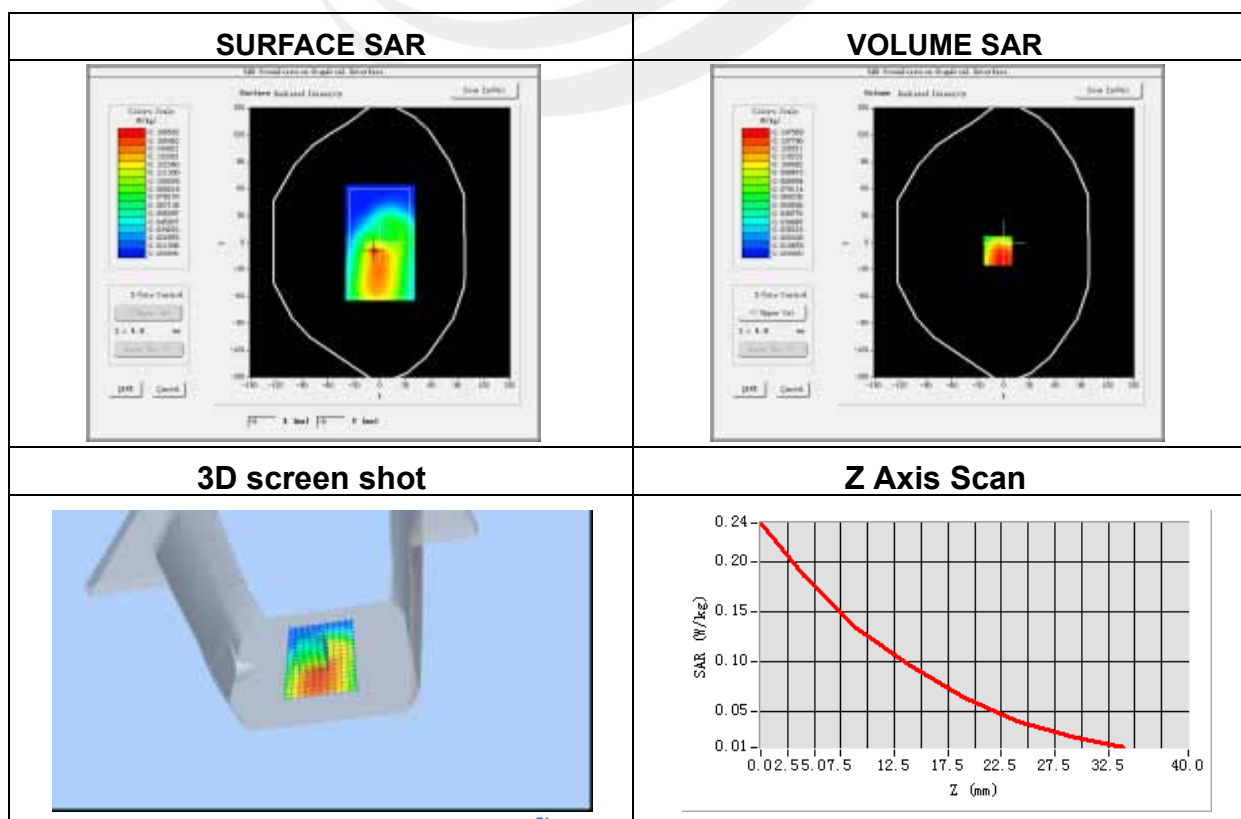
Plot 68: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.83
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	LTE Band 5 (RB 1)
Channels	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	836.5
Relative permittivity (real part)	43.39
Conductivity (S/m)	0.92
Variation (%)	-1.60

Maximum location: X=-7.00, Y=-9.00

SAR Peak: 0.19 W/kg

SAR 10g (W/Kg)	0.095437
SAR 1g (W/Kg)	0.142952



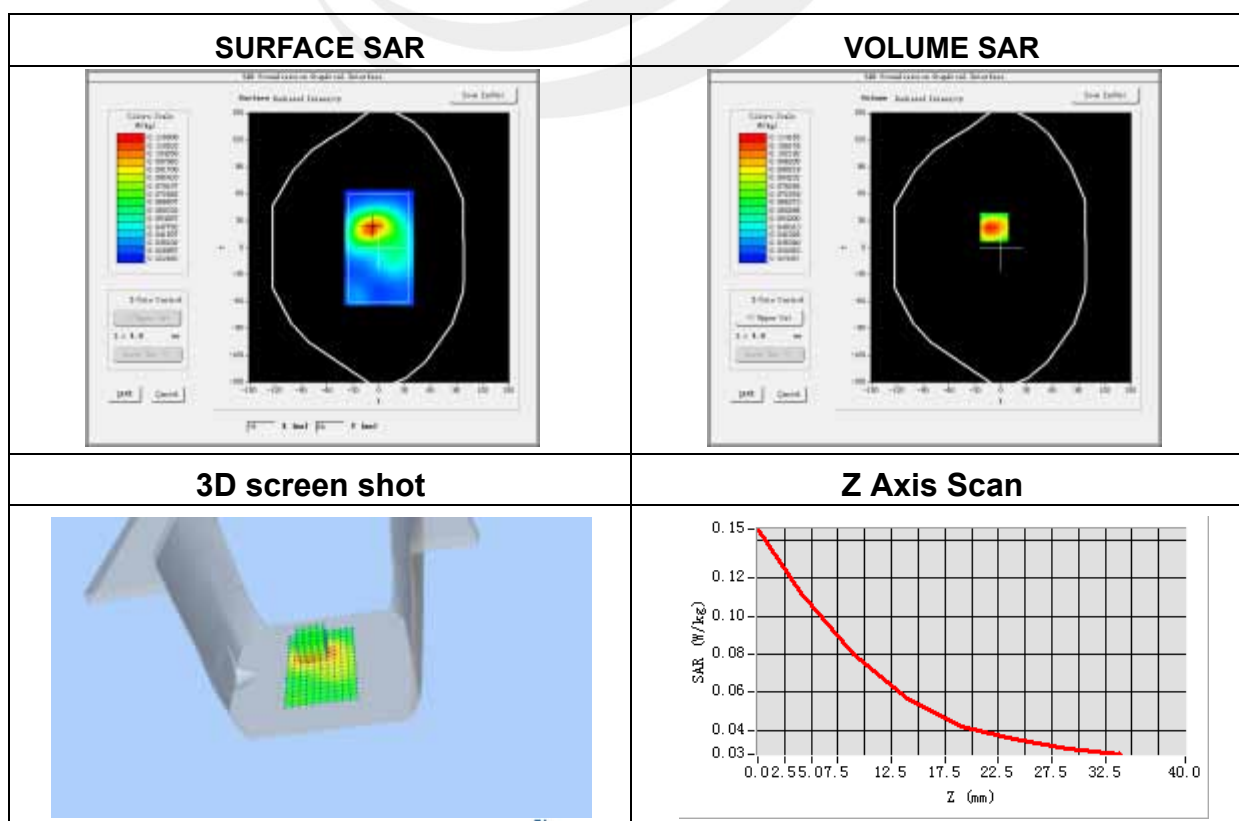
Plot 69: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.83
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body left side
Band	LTE Band 5 (RB 1)
Channels	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	836.5
Relative permittivity (real part)	43.39
Conductivity (S/m)	0.92
Variation (%)	-0.62

Maximum location: X=-8.00, Y=23.00

SAR Peak: 0.16 W/kg

SAR 10g (W/Kg)	0.071953
SAR 1g (W/Kg)	0.109732



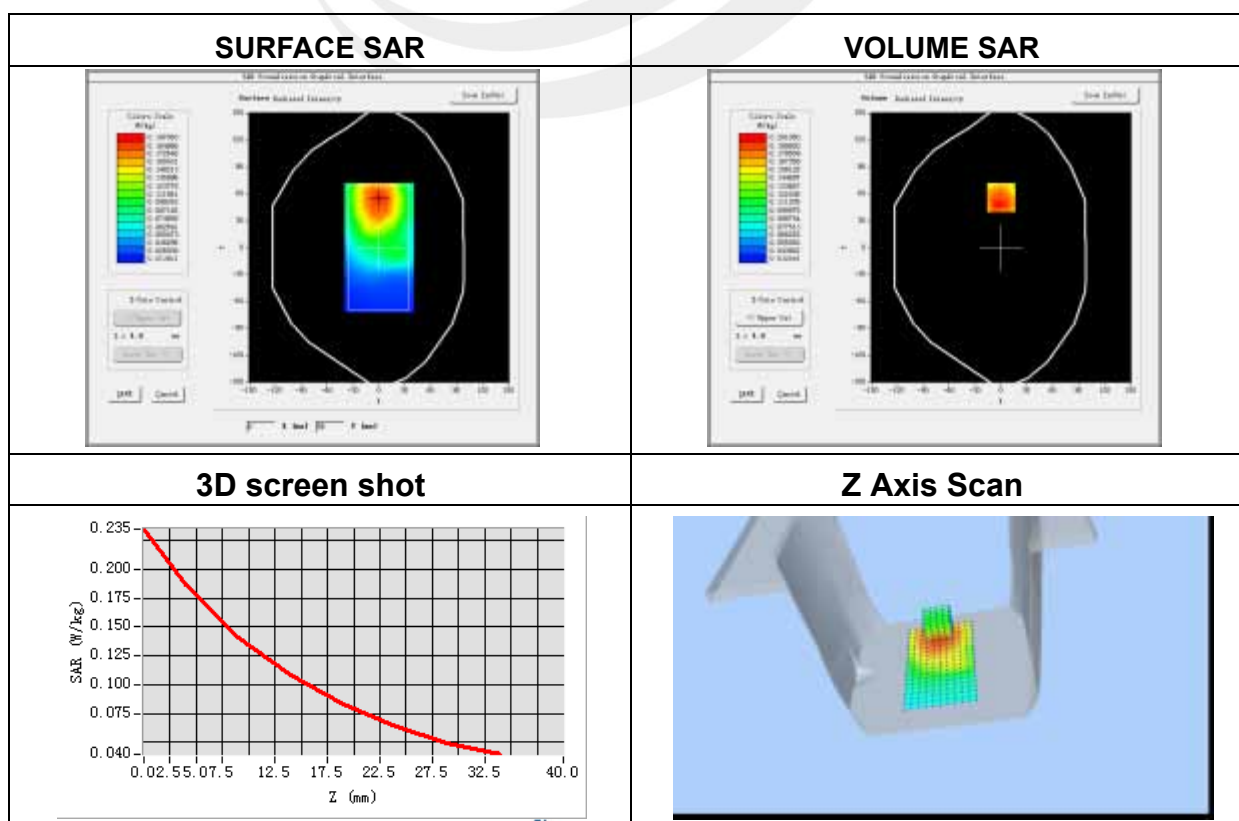
Plot 70: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.83
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Right side
Band	LTE Band 5 (RB 1)
Channels	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	836.5
Relative permittivity (real part)	43.39
Conductivity (S/m)	0.92
Variation (%)	1.82

Maximum location: X=0.00, Y=56.00

SAR Peak: 0.27 W/kg

SAR 10g (W/Kg)	0.135675
SAR 1g (W/Kg)	0.194482



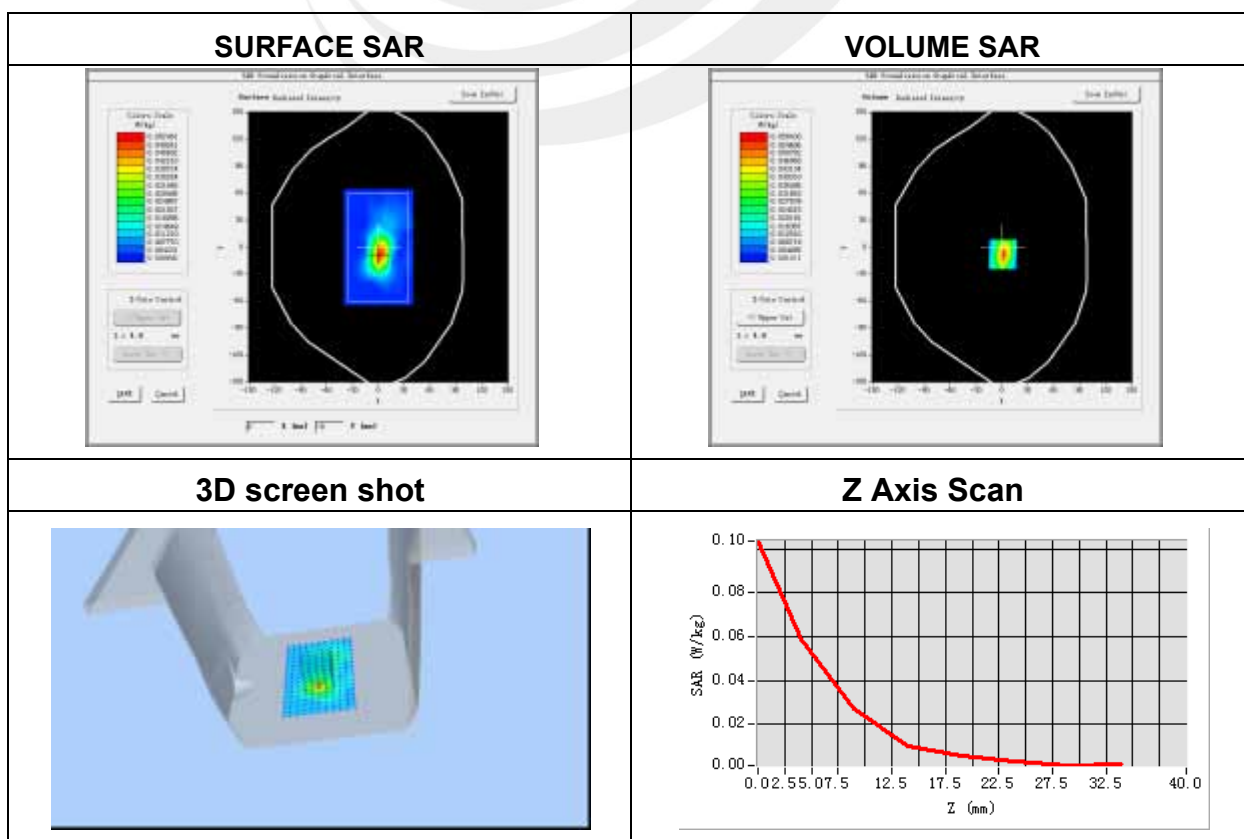
Plot 71: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.83
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body bottom side
Band	LTE Band 5 (RB 1)
Channels	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	836.5
Relative permittivity (real part)	43.39
Conductivity (S/m)	0.92
Variation (%)	0.75

Maximum location: X=1.00, Y=-8.00

SAR Peak: 0.11 W/kg

SAR 10g (W/Kg)	0.022490
SAR 1g (W/Kg)	0.054448



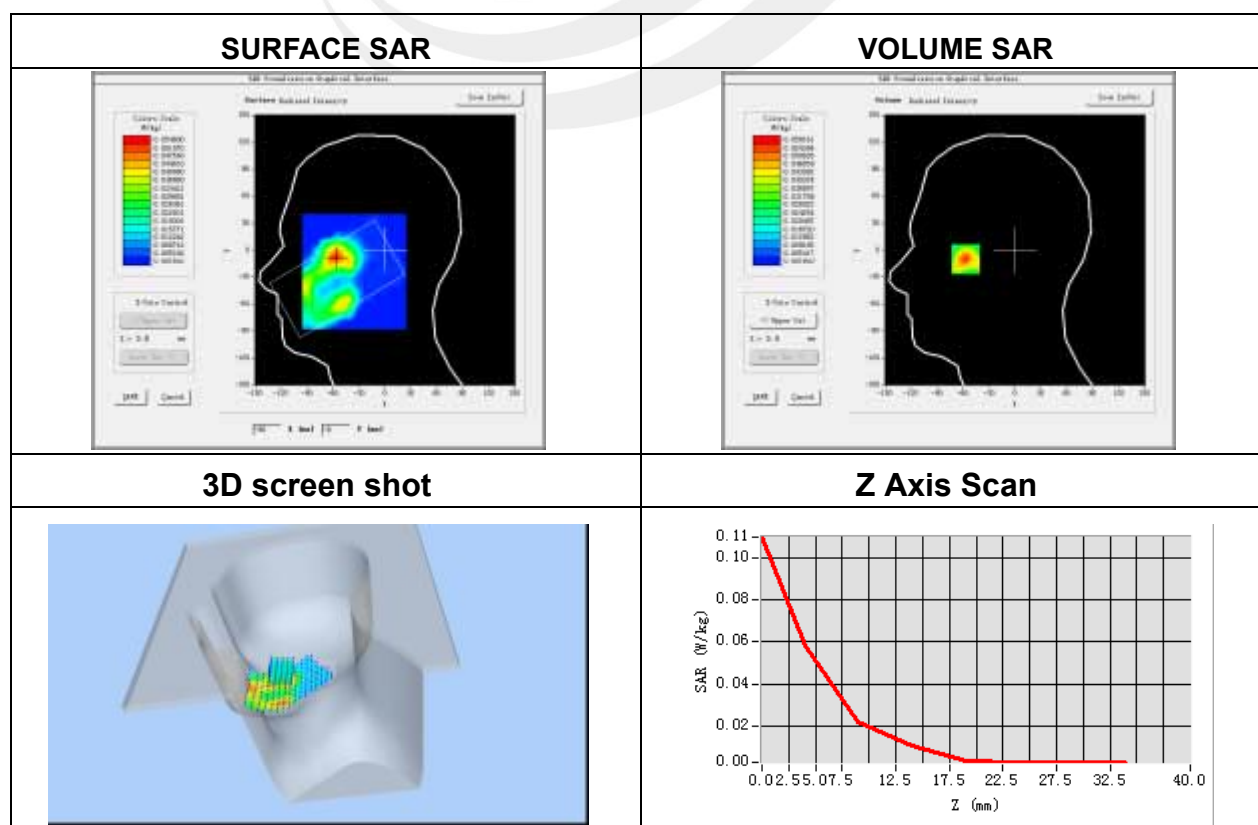
Plot 72: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.20
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 7 (RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2510
Relative permittivity (real part)	38.5
Conductivity (S/m)	1.92
Variation (%)	0

Maximum location: X=-57.00, Y=-7.00

SAR Peak: 0.11 W/kg

SAR 10g (W/Kg)	0.024551
SAR 1g (W/Kg)	0.055098



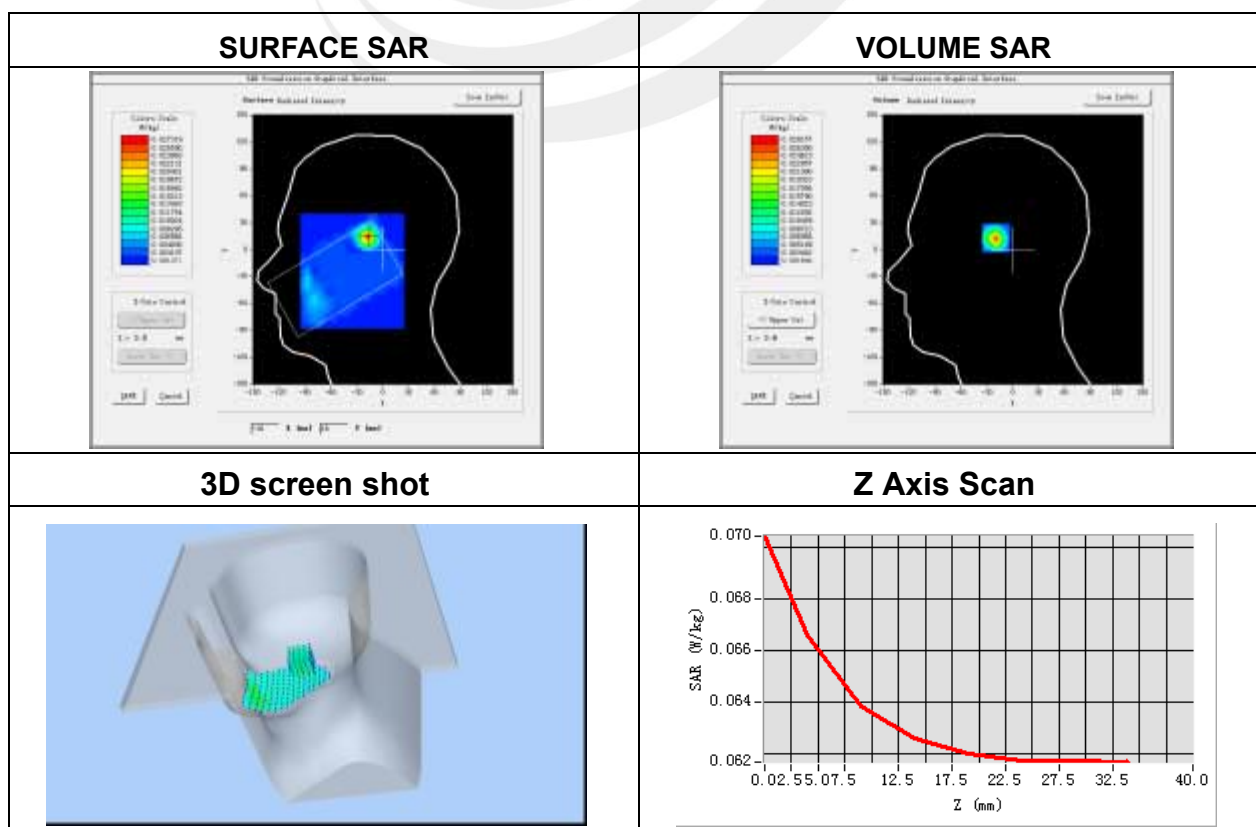
Plot 73: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.20
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Tilt
Band	LTE Band 7 (RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2510
Relative permittivity (real part)	38.5
Conductivity (S/m)	1.92
Variation (%)	-2.75

Maximum location: X=-17.00, Y=15.00

SAR Peak: 0.07 W/kg

SAR 10g (W/Kg)	0.009473
SAR 1g (W/Kg)	0.028211



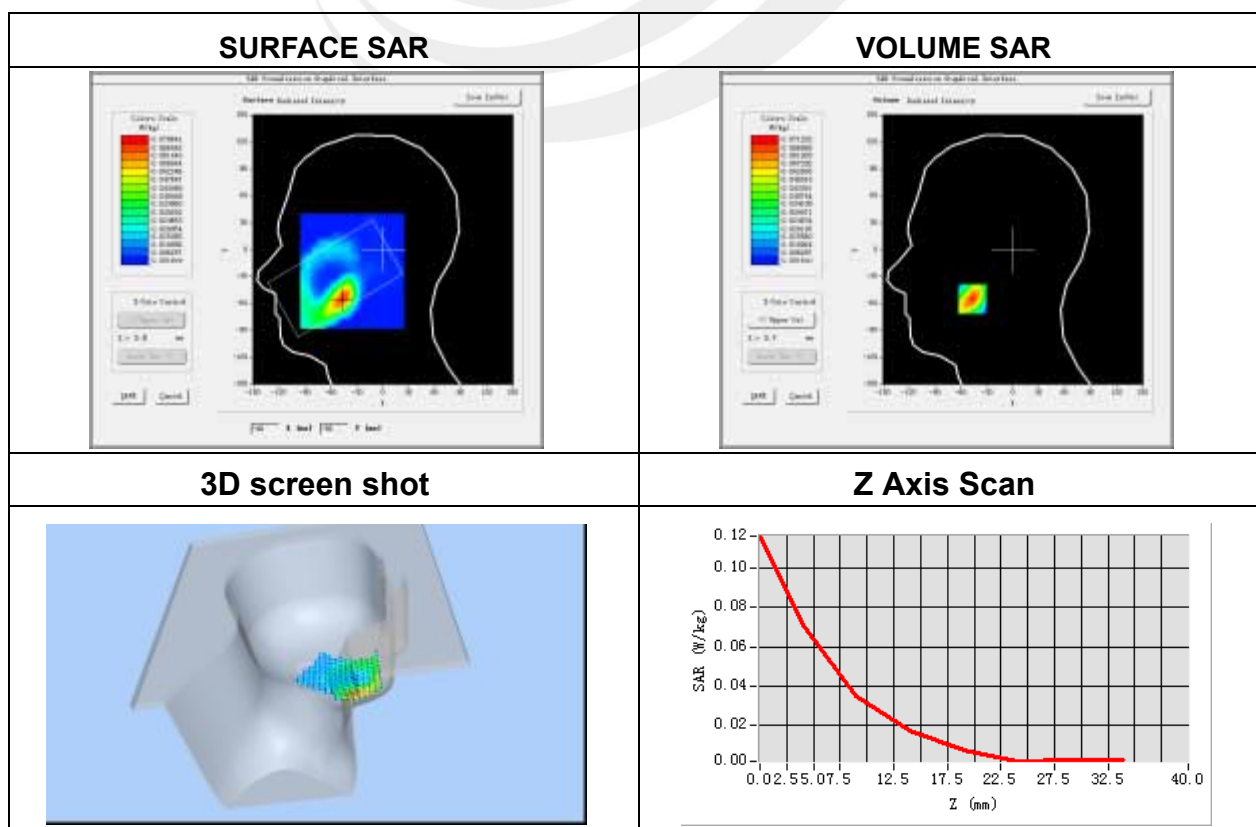
Plot 74: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.20
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Cheek
Band	LTE Band 7 (RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2510
Relative permittivity (real part)	38.5
Conductivity (S/m)	1.92
Variation (%)	0

Maximum location: X=-47.00, Y=-55.00

SAR Peak: 0.12 W/kg

SAR 10g (W/Kg)	0.030893
SAR 1g (W/Kg)	0.066138



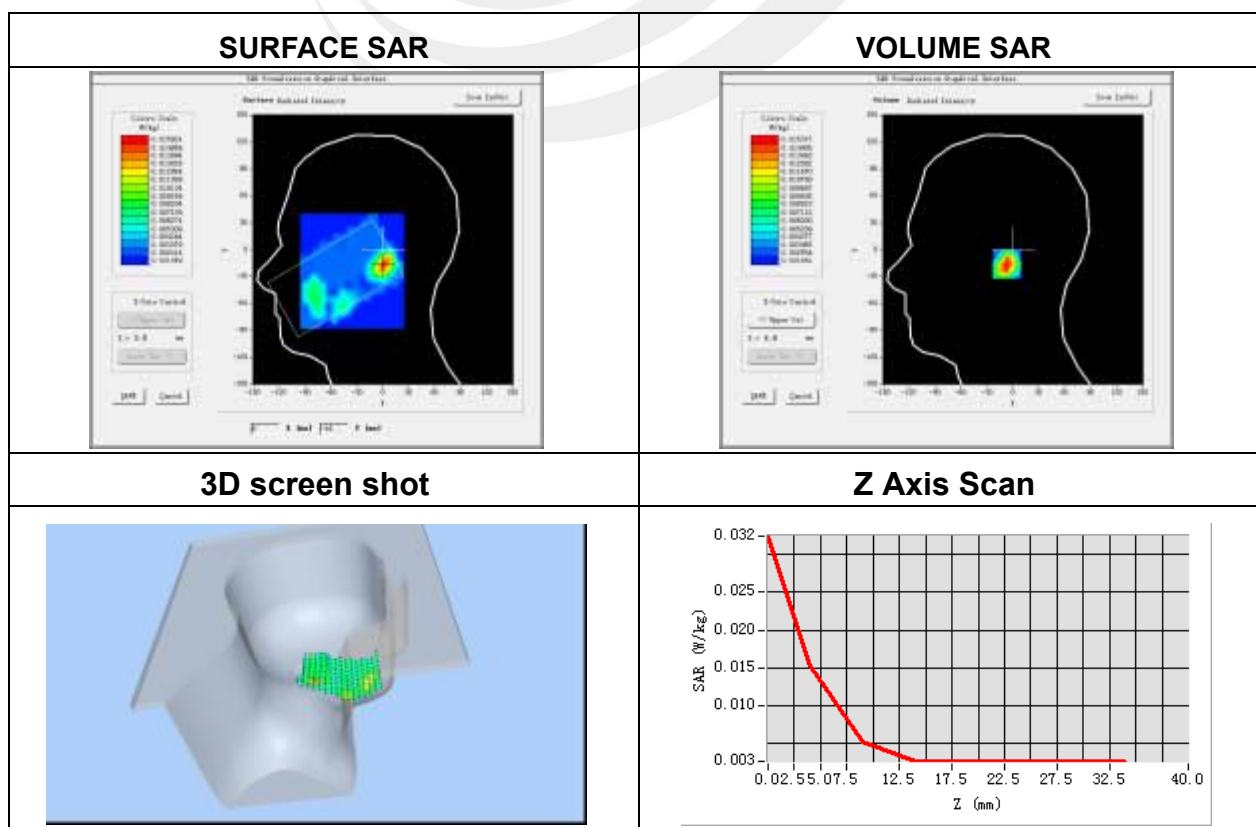
Plot 75: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.20
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Tilt
Band	LTE Band 7 (RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2510
Relative permittivity (real part)	38.5
Conductivity (S/m)	1.92
Variation (%)	-3.35

Maximum location: X=1.00, Y=-16.00

SAR Peak: 0.04 W/kg

SAR 10g (W/Kg)	0.006496
SAR 1g (W/Kg)	0.015597



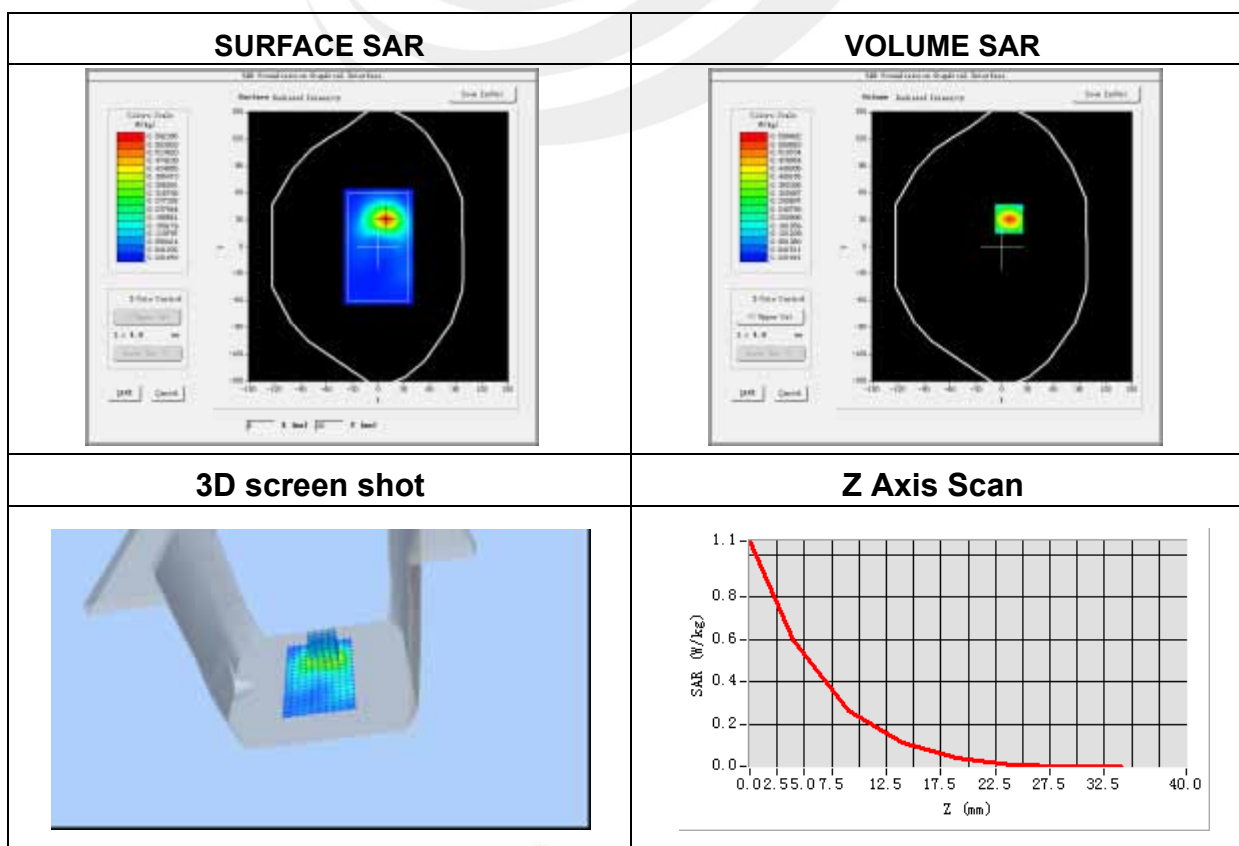
Plot 76: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.32
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body front
Band	LTE Band 7 (RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2510
Relative permittivity (real part)	52.3
Conductivity (S/m)	2.12
Variation (%)	-4.19

Maximum location: X=8.00, Y=31.00

SAR Peak: 1.06 W/kg

SAR 10g (W/Kg)	0.244971
SAR 1g (W/Kg)	0.561403



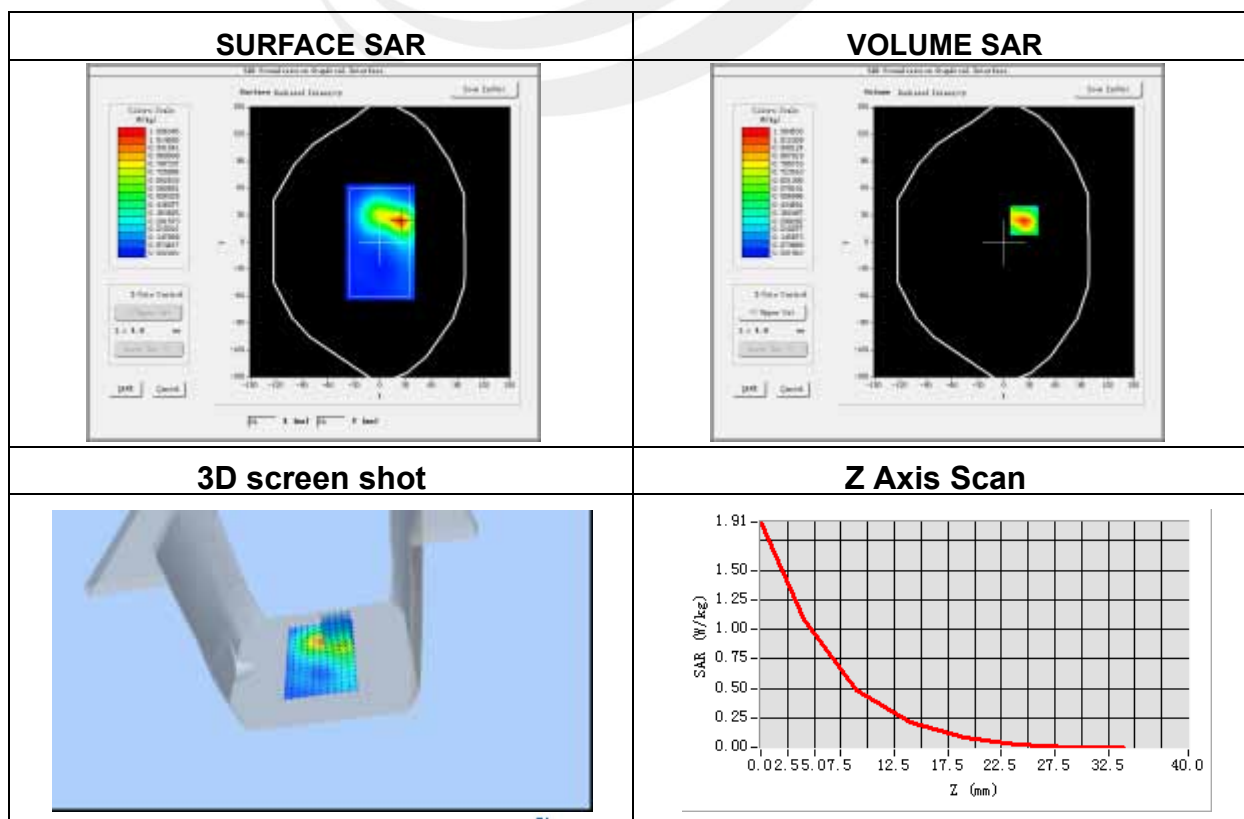
Plot 77: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.32
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	LTE Band 7 (RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2510
Relative permittivity (real part)	52.3
Conductivity (S/m)	2.12
Variation (%)	-0.53

Maximum location: X=23.00, Y=24.00

SAR Peak: 1.90 W/kg

SAR 10g (W/Kg)	0.453623
SAR 1g (W/Kg)	1.015701



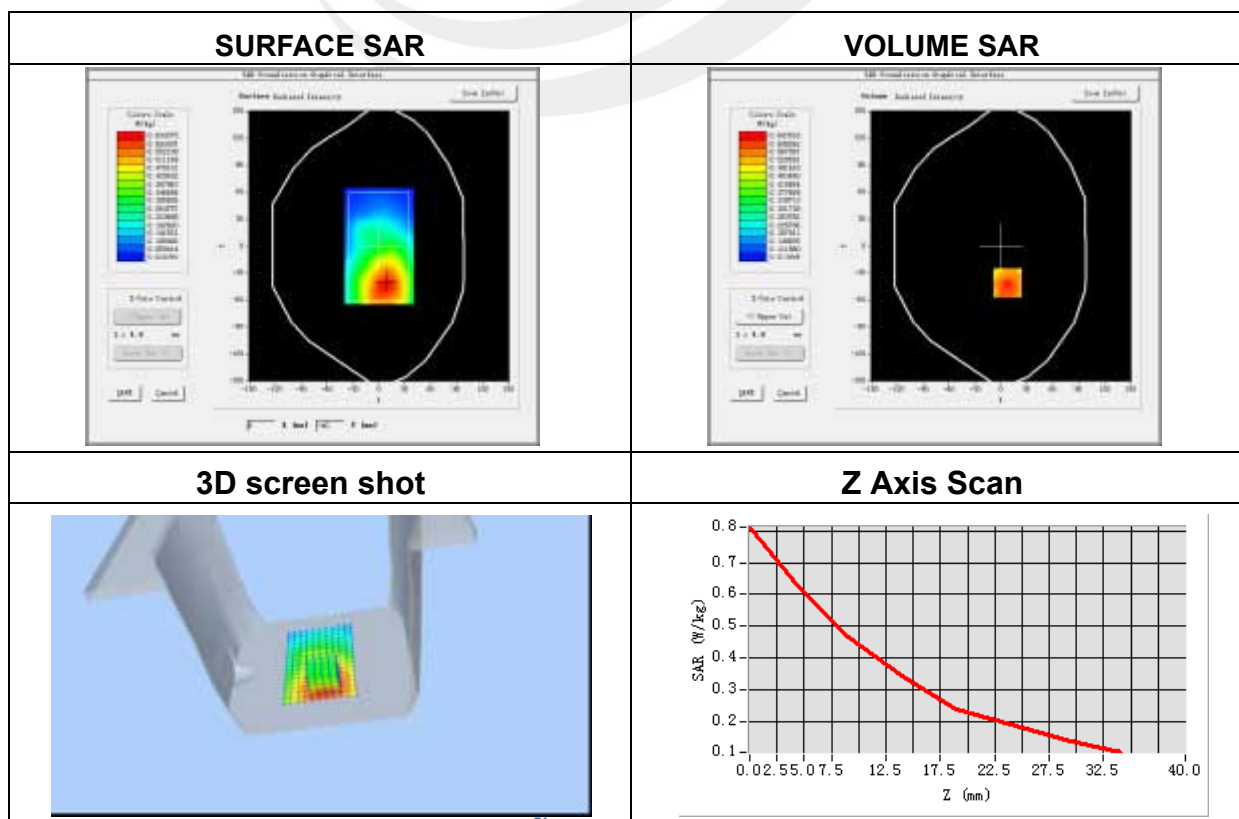
Plot 78: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.32
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body left side
Band	LTE Band 7 (RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2510
Relative permittivity (real part)	52.3
Conductivity (S/m)	2.12
Variation (%)	-3.41

Maximum location: X=7.00, Y=-41.00

SAR Peak: 0.81 W/kg

SAR 10g (W/Kg)	0.424401
SAR 1g (W/Kg)	0.602789



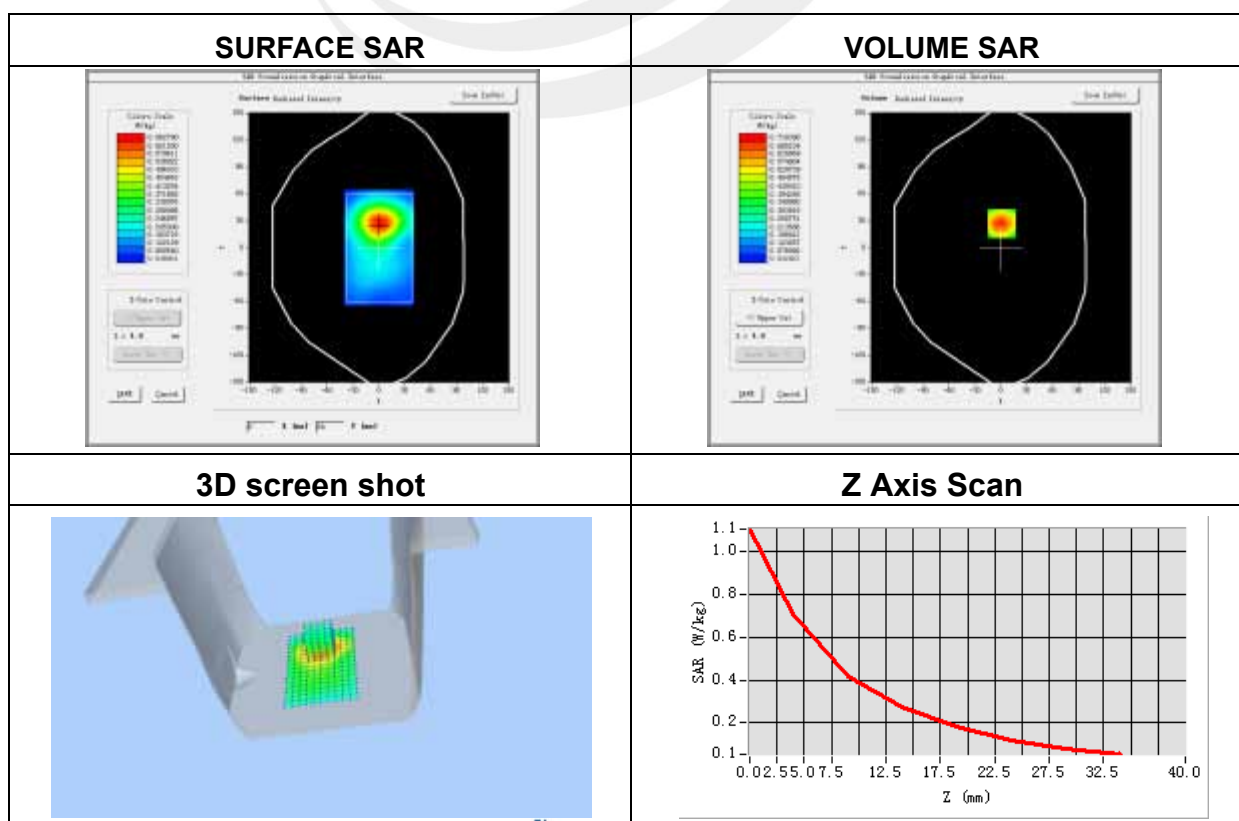
Plot 79: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.32
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Right side
Band	LTE Band 7 (RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2510
Relative permittivity (real part)	52.3
Conductivity (S/m)	2.12
Variation (%)	1.31

Maximum location: X=1.00, Y=27.00

SAR Peak: 1.10 W/kg

SAR 10g (W/Kg)	0.393668
SAR 1g (W/Kg)	0.680904



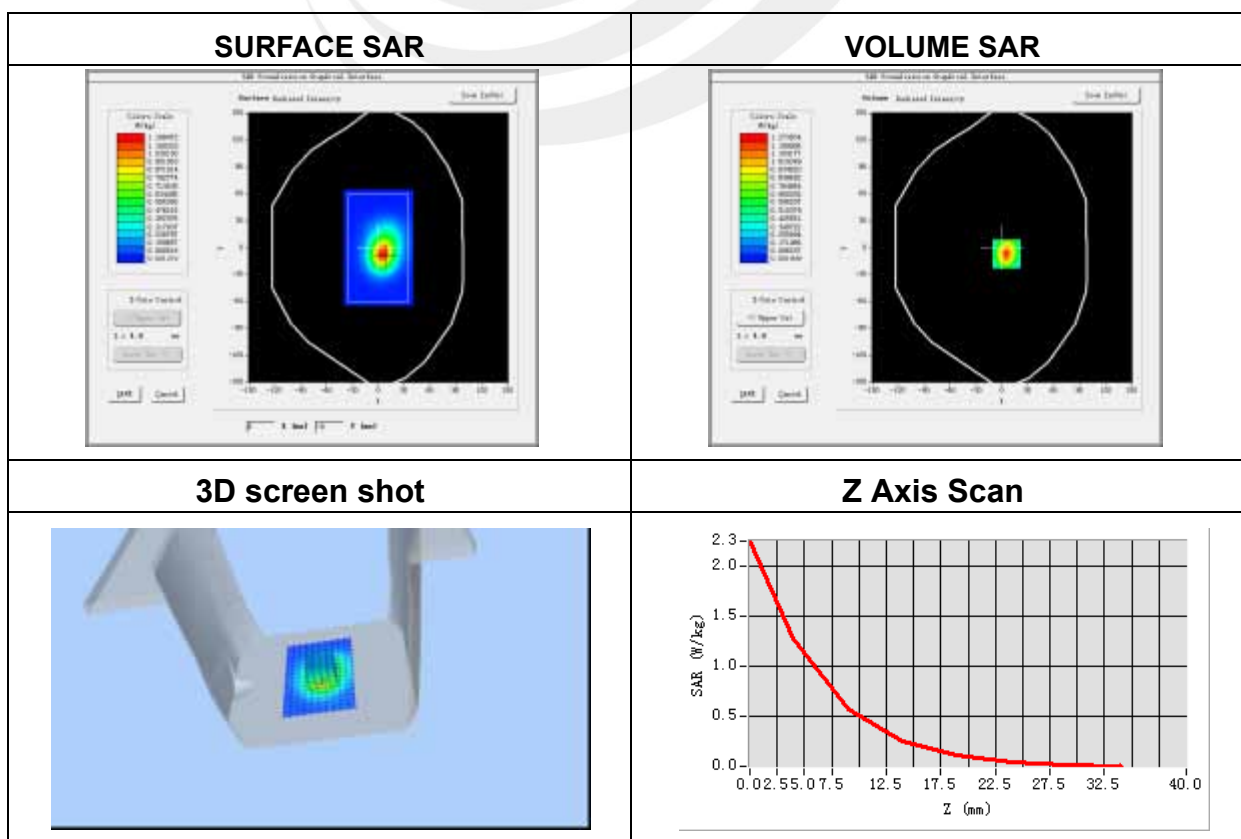
Plot 80: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.32
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body bottom side
Band	LTE Band 7 (RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2510
Relative permittivity (real part)	52.3
Conductivity (S/m)	2.12
Variation (%)	-0.73

Maximum location: X=5.00, Y=-7.00

SAR Peak: 2.22 W/kg

SAR 10g (W/Kg)	0.530296
SAR 1g (W/Kg)	1.192080



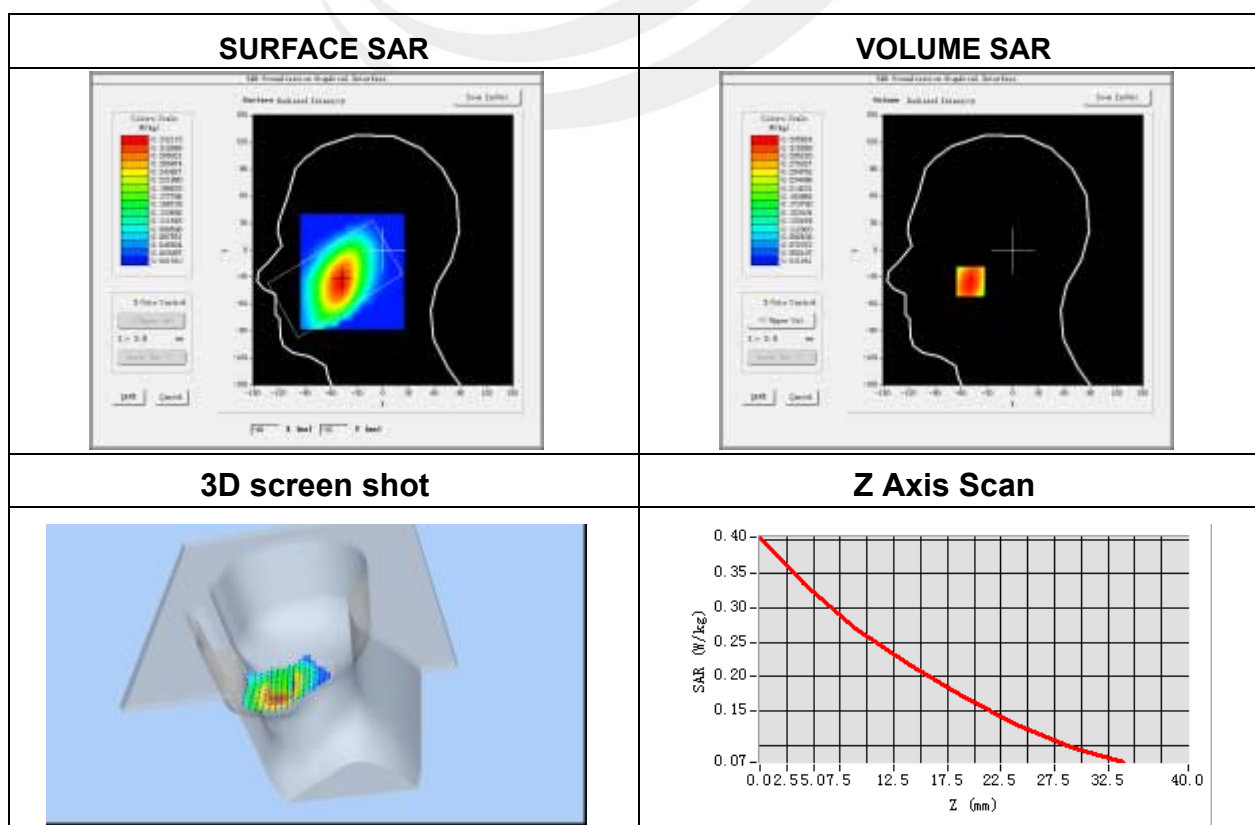
Plot 81: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.53
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 17 (RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	709.0
Relative permittivity (real part)	42.44
Conductivity (S/m)	0.90
Variation (%)	-3.33

Maximum location: X=-49.00, Y=-35.00

SAR Peak: 0.41 W/kg

SAR 10g (W/Kg)	0.256297
SAR 1g (W/Kg)	0.346362



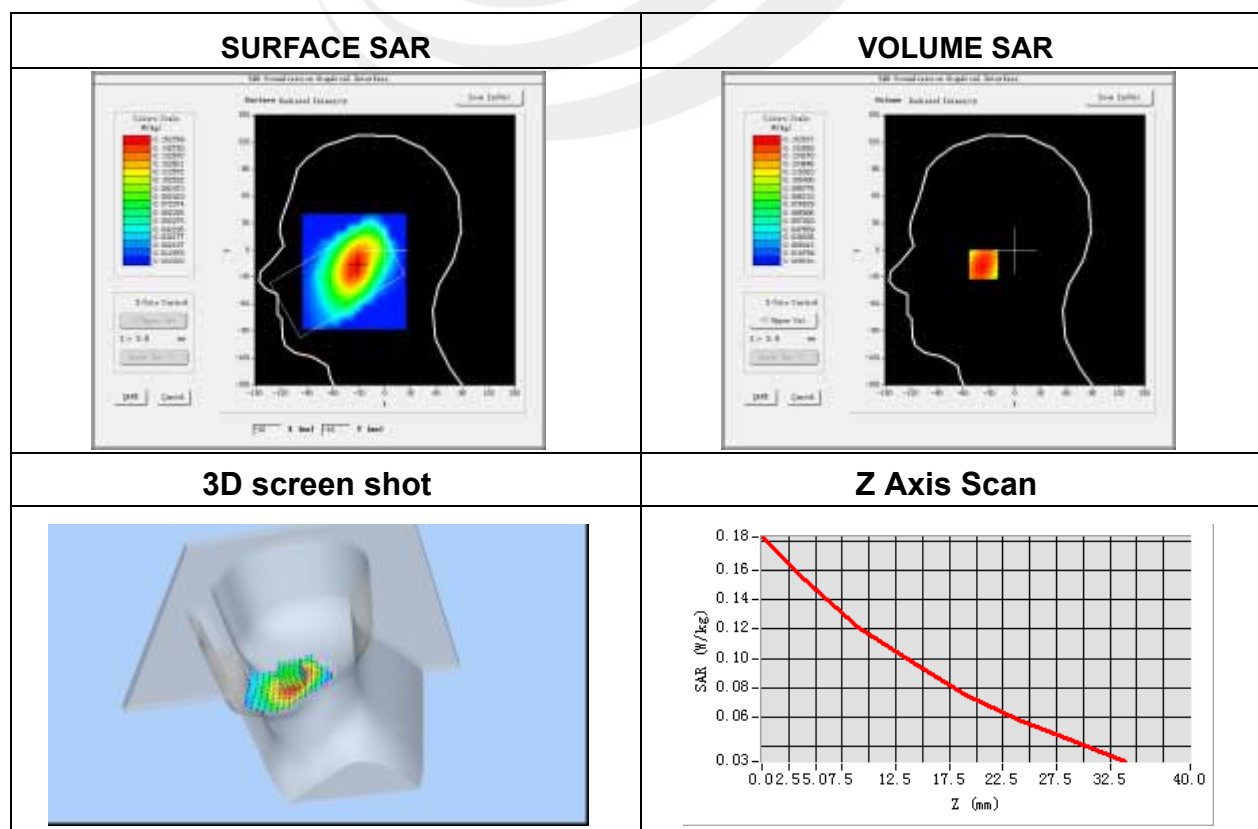
Plot 82: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.53
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Tilt
Band	LTE Band 17 (RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	709.0
Relative permittivity (real part)	42.44
Conductivity (S/m)	0.90
Variation (%)	-0.31

Maximum location: X=-33.00, Y=-16.00

SAR Peak: 0.19 W/kg

SAR 10g (W/Kg)	0.115575
SAR 1g (W/Kg)	0.157358



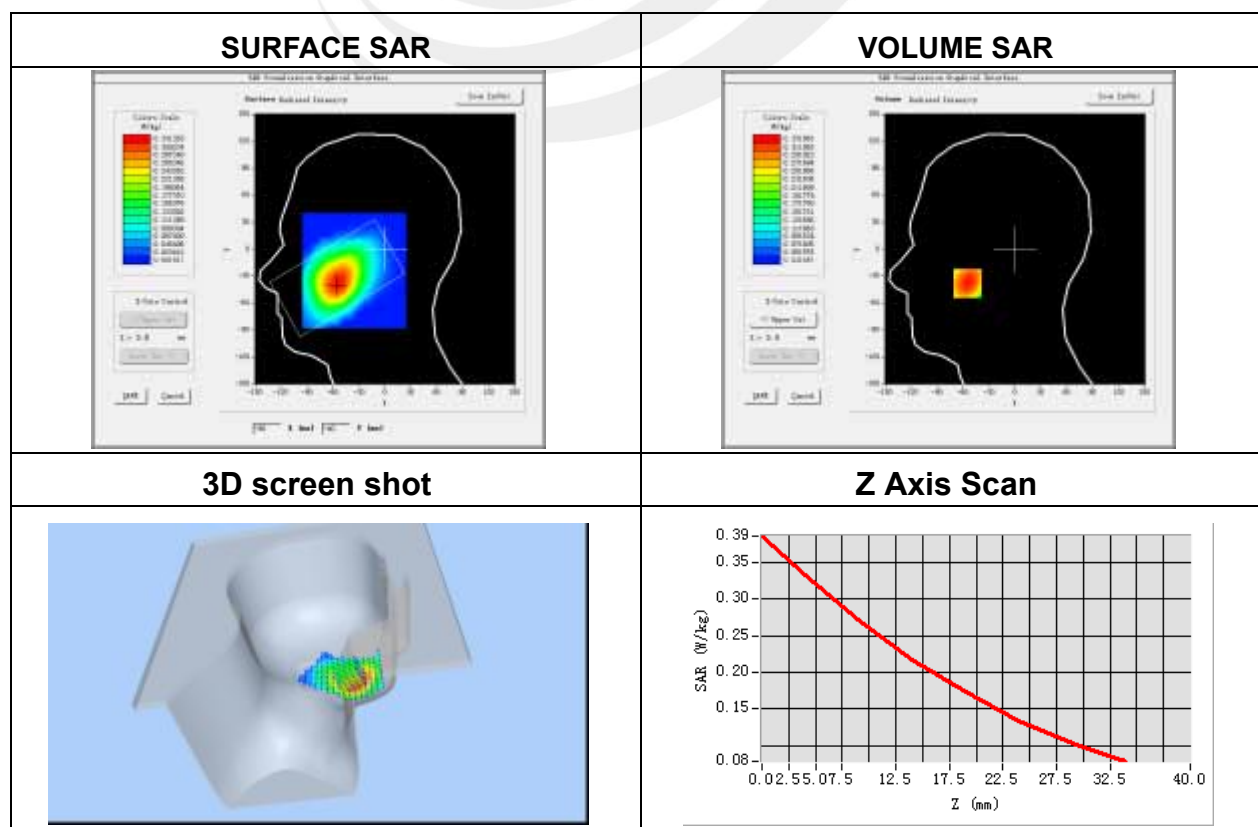
Plot 83: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.53
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Cheek
Band	LTE Band 17 (RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	709.0
Relative permittivity (real part)	42.44
Conductivity (S/m)	0.90
Variation (%)	2.48

Maximum location: X=-55.00, Y=-38.00

SAR Peak: 0.39 W/kg

SAR 10g (W/Kg)	0.253965
SAR 1g (W/Kg)	0.339519



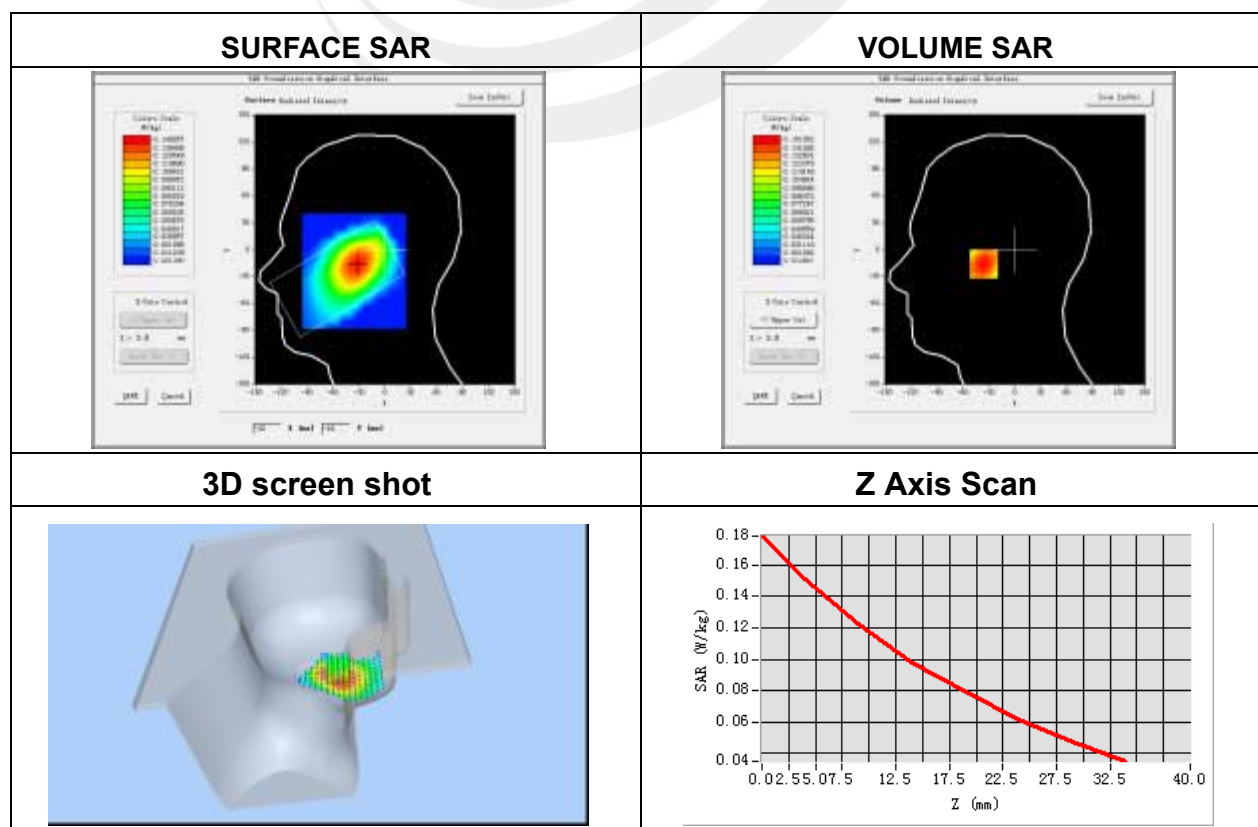
Plot 84: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.53
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Tilt
Band	LTE Band 17 (RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	709.0
Relative permittivity (real part)	42.44
Conductivity (S/m)	0.90
Variation (%)	1.78

Maximum location: X=-32.00, Y=-16.00

SAR Peak: 0.18 W/kg

SAR 10g (W/Kg)	0.115416
SAR 1g (W/Kg)	0.155127



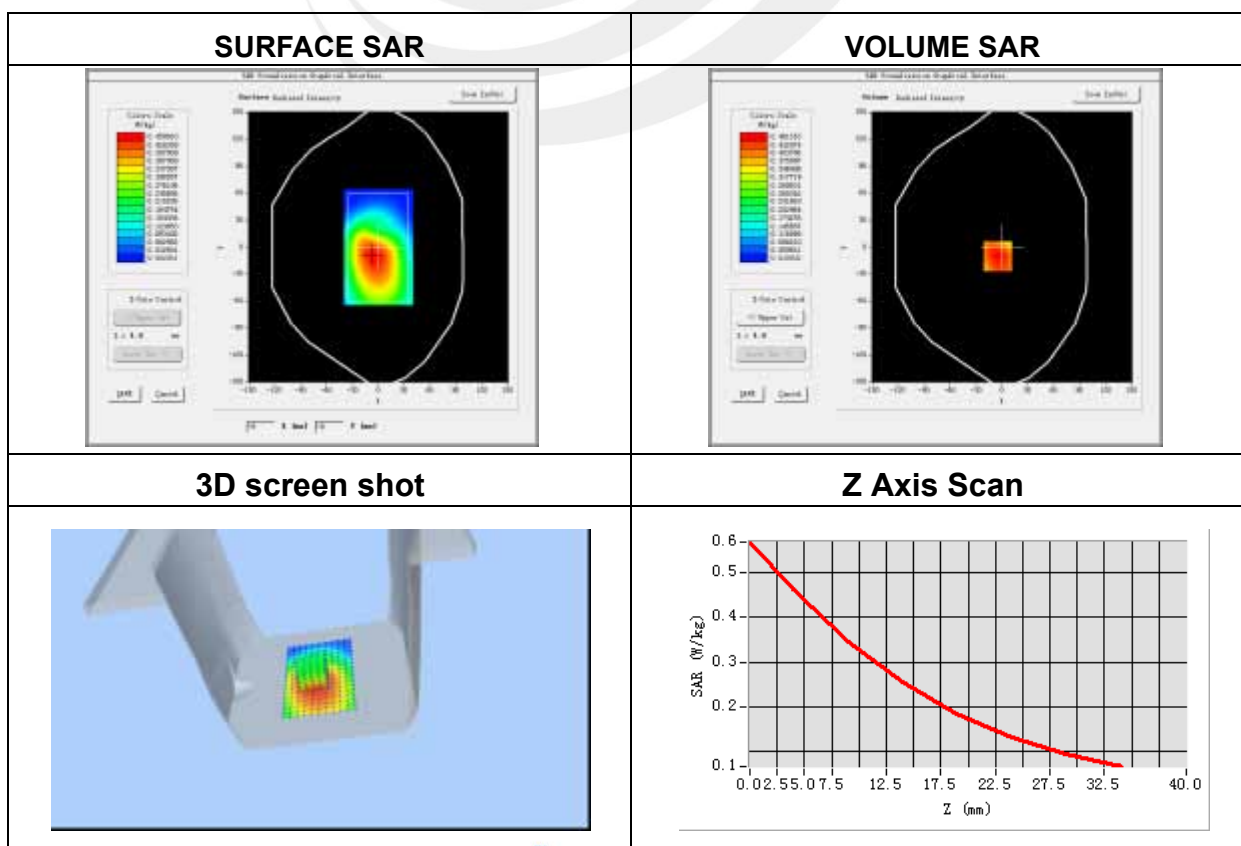
Plot 85: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.70
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body front
Band	LTE Band 17 (RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	709.0
Relative permittivity (real part)	55.10
Conductivity (S/m)	0.94
Variation (%)	0.24

Maximum location: X=-5.00, Y=-10.00

SAR Peak: 0.60 W/kg

SAR 10g (W/Kg)	0.337692
SAR 1g (W/Kg)	0.471921



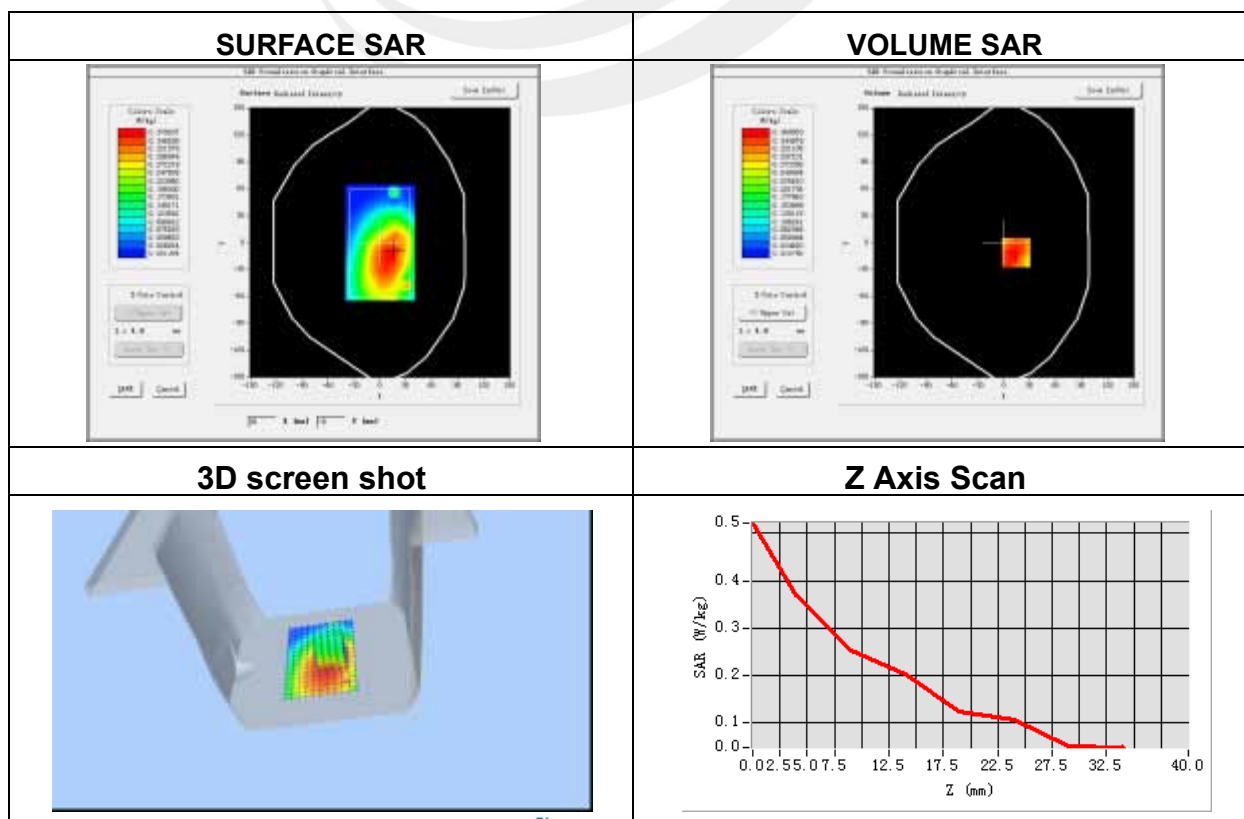
Plot 86: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.70
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	LTE Band 17 (RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	709.0
Relative permittivity (real part)	55.10
Conductivity (S/m)	0.94
Variation (%)	0.51

Maximum location: X=14.00, Y=-11.00

SAR Peak: 0.49 W/kg

SAR 10g (W/Kg)	0.268820
SAR 1g (W/Kg)	0.379679



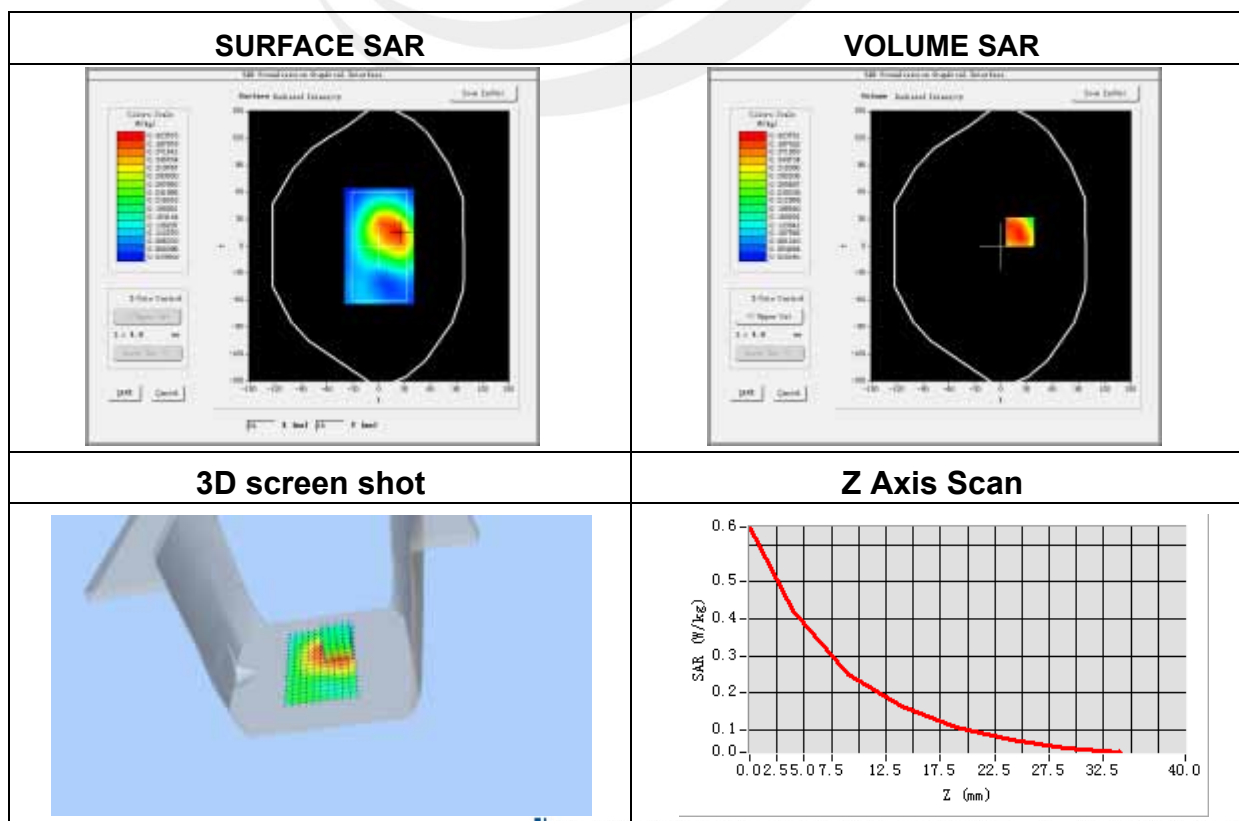
Plot 87: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.70
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body left side
Band	LTE Band 17 (RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	709.0
Relative permittivity (real part)	55.10
Conductivity (S/m)	0.94
Variation (%)	-2.21

Maximum location: X=22.00, Y=16.00

SAR Peak: 0.64 W/kg

SAR 10g (W/Kg)	0.253102
SAR 1g (W/Kg)	0.409822



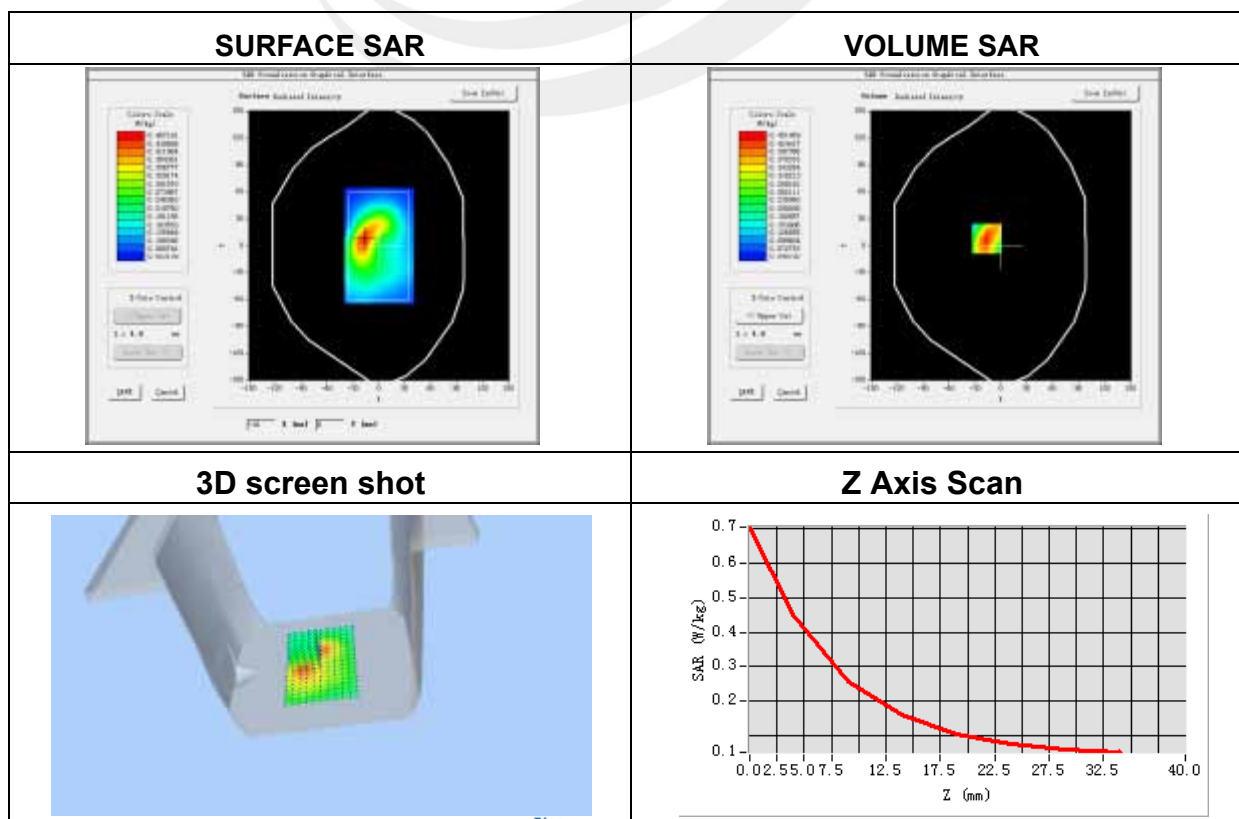
Plot 88: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.70
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Right side
Band	LTE Band 17 (RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	709.0
Relative permittivity (real part)	55.10
Conductivity (S/m)	0.94
Variation (%)	-2.35

Maximum location: X=-17.00, Y=8.00

SAR Peak: 0.70 W/kg

SAR 10g (W/Kg)	0.246949
SAR 1g (W/Kg)	0.430493



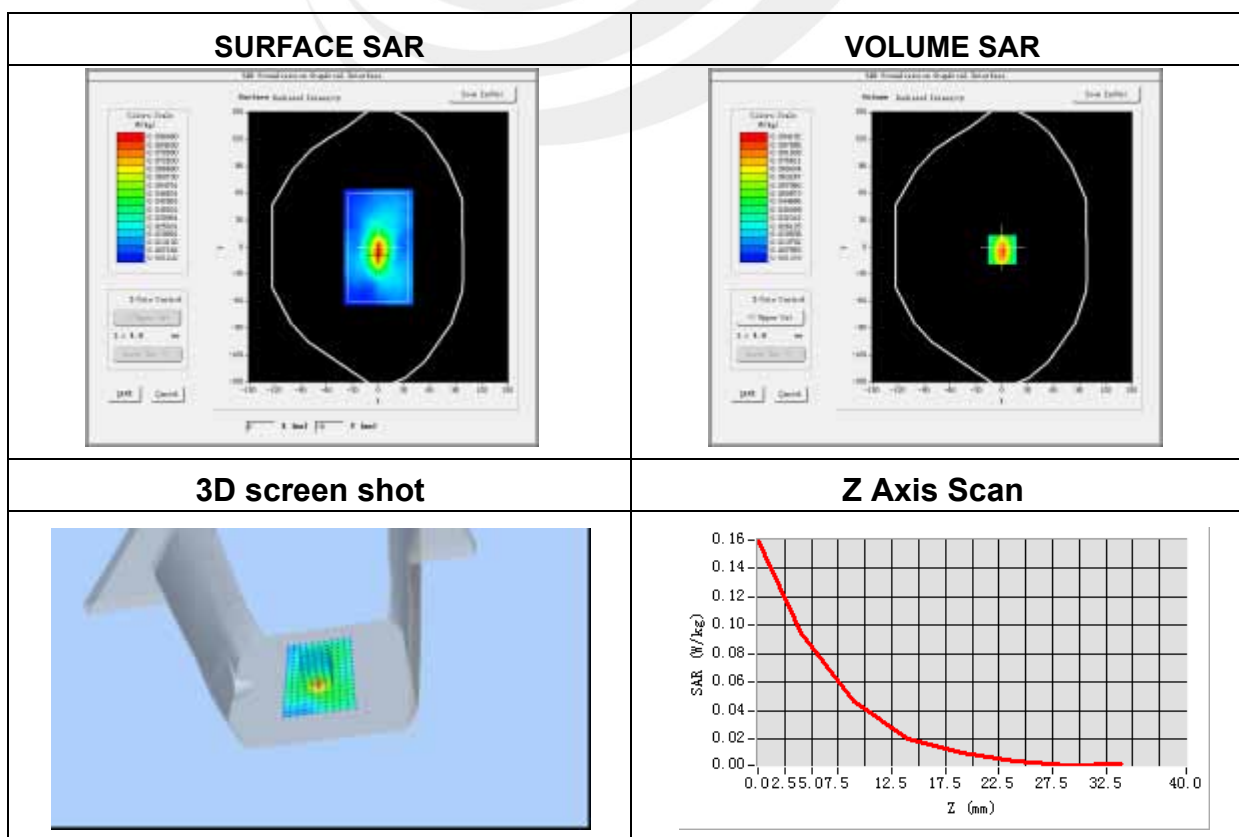
Plot 89: DUT: LTE/WCDMA/GSM MOBILE PHONE; EUT Model: Elite 4

Test Data	2016-01-18
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.70
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body bottom side
Band	LTE Band 17 (RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	709.0
Relative permittivity (real part)	55.10
Conductivity (S/m)	0.94
Variation (%)	0.57

Maximum location: X=0.00, Y=-3.00

SAR Peak: 0.16 W/kg

SAR 10g (W/Kg)	0.042535
SAR 1g (W/Kg)	0.092378





Appendix C. Probe Calibration And Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※※END OF THE REPORT※※※※※

