



FCC SAR EVALUATION REPORT

FCC ID: OLEU511

For

Product Name: 3G MOBILE PHONE

Brand Name: unnecto ™

Model Name: U511

Series Model: N/A

Test Report Number: STS1411047H01

ANSI/IEEE Std. C95.1

Test Standard: FCC 47 CFR Part 2 (2.1093)

IEEE 1528: 2003

Issued for

PARKTEL FZE

WAREHOUSE NO:FF01,ROUND ABOUT NO:05,JEBEL ALI FREEZONE
DUBAI U.A.E

Issued by

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All Test Data Presented in this report is only applicable to presented Test sample.

Test Report Certification

Applicant's name : PARKTEL FZE
Address : WAREHOUSE NO:FF01,ROUND ABOUT NO:05,JEBEL ALI
 FREEZONE DUBAI U.A.E
Manufacture's Name..... : SHENZHEN UNI-ONE ELECTRONIC CO.,LTD
Address : 5/F,Bldg A2,Kexing Science Park,Keyuan Rd.,Hi-Tech Park
 Shenzhen,P.R.China

Product description

Product name : 3G MOBILE PHONE
Trademark : unnecto TM
Model and/or type reference : U511
Serial Model : N/A
Standards : ANSI/IEEE Std. C95.1-1992
 FCC 47 CFR Part 2 (2.1093)
 IEEE 1528: 2003

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 : 24 Nov. 2014
Date of Issue..... : 26 Nov. 2014
Test Result..... : **Pass**

Testing Engineer :



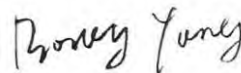
(Tony Liu)

Technical Manager :



(Vita Li)

Authorized Signatory :



(Bovey Yang)



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1. General Information

1.1 EUT Description

Equipment	3G MOBILE PHONE		
Brand Name	unnecto TM		
Model No.	U511		
Serial Model	N/A		
FCC ID	OLEU511		
Adapter	Input: AC100-240V, 0.15 A, 50/60 Hz Output: DC 5V, 700mA		
Battery	Rated Voltage: 3.8V Charge Limit: 4.2V Capacity :1250mAh		
Hardware Version	U01_MB_V0.1		
Software Version	UNI_C231_1.3_140820		
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 WLAN 802.11 b/g/n(HT20):2412-2462 MHz WLAN 802.11 n(HT40):2422-2452 MHz Bluetooth : 2402~2480MHz		
Transmit Power(Max):	GSM 850: 27.87dBm GSM 1900: 26.96dBm WCDMA II: 21.30dBm WCDMA V: 22.53dBm	802.11b: 9.886dBm 802.11g: 7.904dBm 802.11 n(HT20): 7.077dBm 802.11 n(HT40): 4.920dBm Bluetooth: 4.745dBm	
Max. Reported SAR(1g):	Head: GSM 850: 0.744 W/kg GSM 1900: 0.247 W/kg WCDMA II: 0.776 W/kg WCDMA V: 0.674 W/kg WIFI: 0.221W/kg	Body: GSM 850: 0.762W/kg GSM 1900: 0.669 W/kg WCDMA II: 0.840 W/kg WCDMA V: 0.811 W/kg WIFI: 0.290W/kg	Hotspot: GSM 850: 0.750W/kg GSM 1900: 0.620 W/kg WCDMA II: 0.840 W/kg WCDMA V: 0.811 W/kg WIFI: 0.290W/kg
Operating Mode:	GSM: GSM Voice; GPRS Class 12; WCDMA: RMC/HSDPA/HSUPA Release 6; WLAN: 802.11 b/g/n; Bluetooth: V3.0 + EDR (GFSK + π /4DQPSK+8DPSK)		
Antenna Specification:	GSM/WCDMA: PIFA Antenna BT/WIFI: PIFA Antenna		
SIM Card	Support dual-SIM, dual standby, the multiple SIM card with two lines cannot transmitting at the same time		
Hotspot Mode:	Support		
DTM Mode:	Not Support		

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 Facility

Shenzhen STS Test Services Co., Ltd.

Add. : 1/F, Building 2, Zhuoke Science Park, Chongqing Road, Fuyong,
Baoan District, Shenzhen, China

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. 1528-2003	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 v05r02	Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies
5	FCC KDB 865664 D01 v01r03	SAR Measurement 100 MHz to 6 GHz
6	FCC KDB 865664 D01 v01r03	SAR Measurement 100 MHz to 6 GHz
7	FCC KDB 941225 D01	SAR Measurement Procedures for 3G Devices
8	FCC KDB 248227 D01	SAR Measurement Procedures for 802.11 a/b/g Transmitters

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:

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

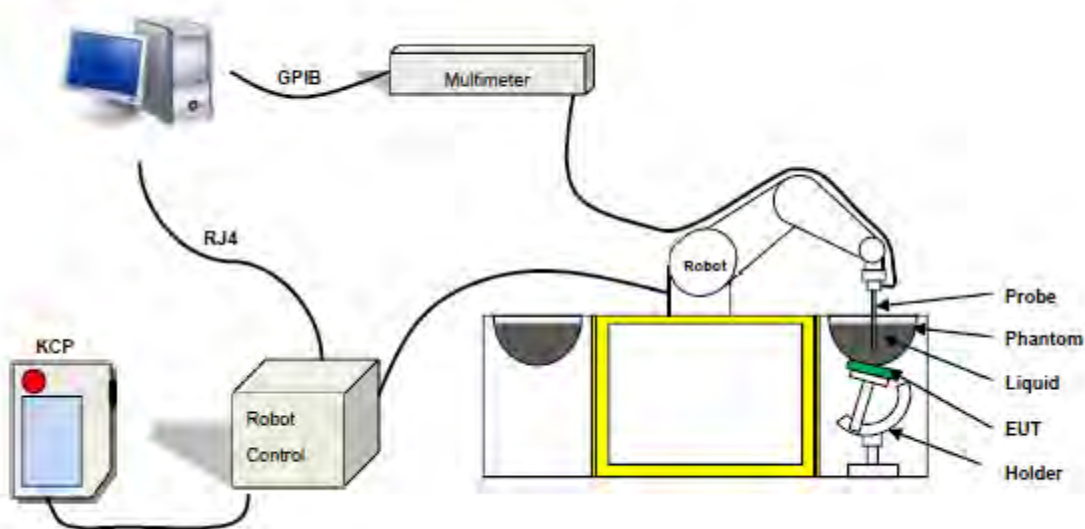
SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be related to the electrical field in the tissue by

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

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.

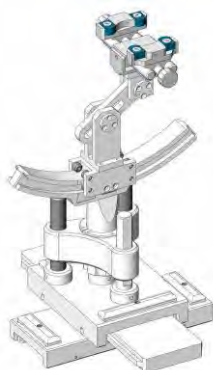
SN 32/14 SAM115



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: November 24, 2014 **Ambient condition:** Temperature 22.7°C **Relative humidity:** 49%

Head Simulating Liquid		Parameters	Target	Measured	Deviation[%]	Limited[%]
Frequency	Temp. [°C]					
835 MHz	22.30	Permittivity:	41.50	41.27	-0.55	±5
		Conductivity:	0.90	0.91	1.11	± 5
1900 MHz	22.30	Permittivity:	40.00	39.57	-1.07	± 5
		Conductivity:	1.40	1.403	0.21	± 5
2450 MHz	22.30	Permittivity:	39.2	37.8	-3.5	± 5
		Conductivity:	1.80	1.86	3.3	± 5

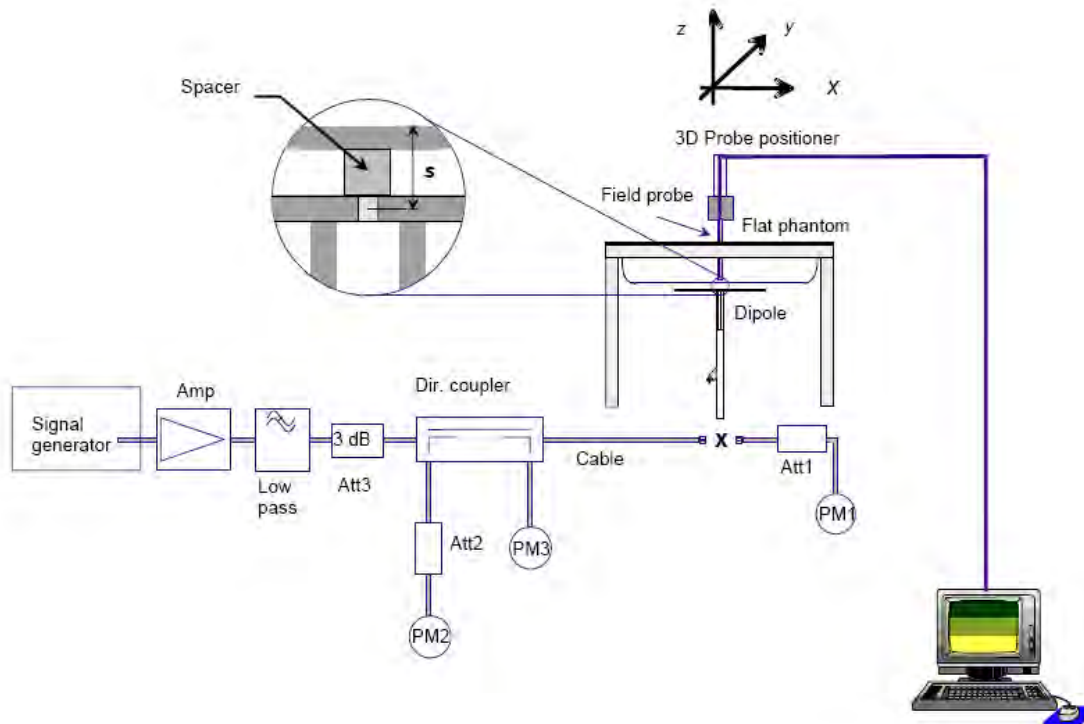
Body Simulating Liquid		Parameters	Target	Measured	Deviation[%]	Limited[%]
Frequency	Temp. [°C]					
835 MHz	22.30	Permittivity:	55.20	55.50	0.54	± 5
		Conductivity:	0.97	0.96	-1.03	± 5
1900 MHz	22.30	Permittivity:	53.30	51.68	-3.04	± 5
		Conductivity:	1.52	1.51	0.66	± 5
2450 MHz	22.30	Permittivity:	52.7	51.2	-2.9	± 5
		Conductivity:	1.95	1.95	0.0	± 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
835 Head	100	0.937	9.37	9.71	-3.50	2014-11-24
835 Body	100	0.968	9.68	10.19	-5.00	2014-11-24
1900 Head	100	3.840	38.4	40.01	-4.02	2014-11-24
1900 Body	100	4.142	41.42	40.32	2.73	2014-11-24
2450 Head	100	3.922	39.22	39.20	2.91	2014-11-24
2450 Body	100	5.123	51.23	52.37	-2.18	2014-11-24

Note:

1. 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 D01v01r01 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



-  WWAN Antenna
-  WIFI Antenna

7.1 SAR TEST EXCLUSION CONSIDER TABLE

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

Band	Mode	Max.peak power		Test position configurations					
		dBm	mW	Front	Back	Left edge	Right edge	Top edge	Bottom edge
GSM850	Distance to user			< 5mm	< 5mm	< 5mm	< 5mm	100mm	<5mm
	Data	34.27	2673.01	Yes	Yes	Yes	Yes	No	yes
GSM1900	Distance to user			< 5mm	< 5mm	< 5mm	< 5mm	100mm	<5mm
	Data	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
WCDMA Band2	Distance to user			< 5mm	< 5mm	< 5mm	< 5mm	100mm	<5mm
	Data	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
WCDMA Band5	Distance to user			< 5mm	< 5mm	< 5mm	< 5mm	100mm	<5mm
	Data	34.27	2673.01	Yes	Yes	Yes	Yes	No	Yes
WLAN	Distance to user			< 5mm	< 5mm	30mm	< 5mm	<5mm	70mm
	Data	34.27	2673.01	Yes	Yes	No	Yes	Yes	No
Bluetooth	Distance to user			< 5mm	< 5mm	30mm	< 5mm	<5mm	70mm
	Data	34.27	2673.01	Yes	Yes	No	Yes	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:

$$[(\text{max.power of channel, including tune-up tolerance, Mw})/(\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR}$$

$f(\text{GHz})$ 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 <50mm 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 >50mm, 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 >1500MHz and $\leq$ 6GHz

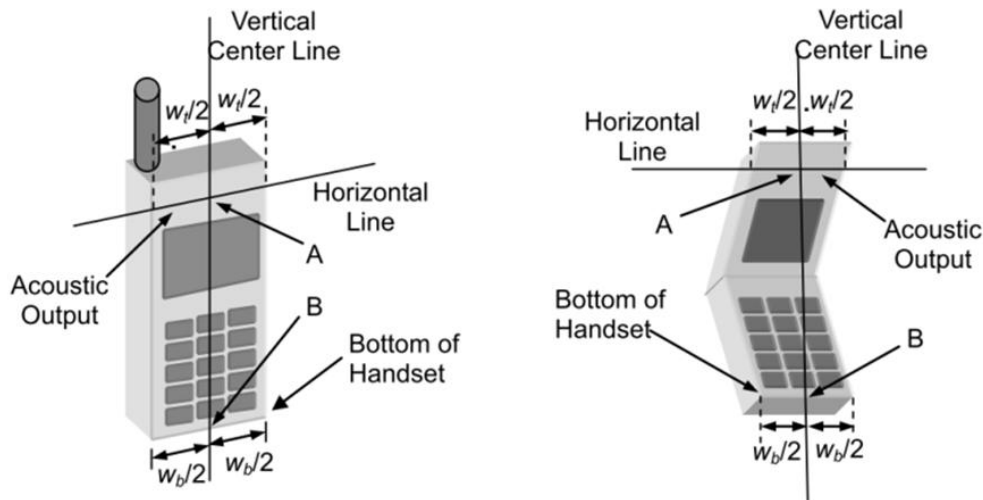


8. EUT Test Position

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

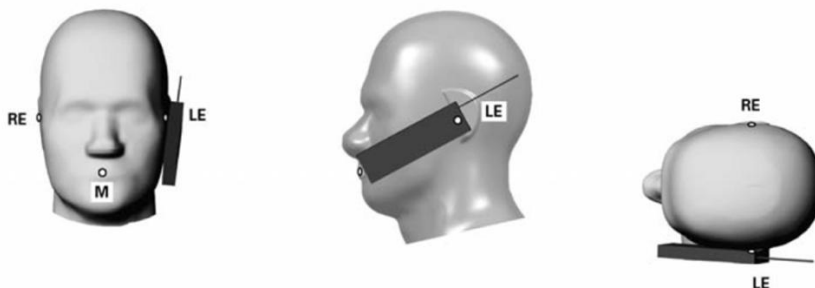
8.1 Define Two Imaginary Lines On The Handset

- (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.



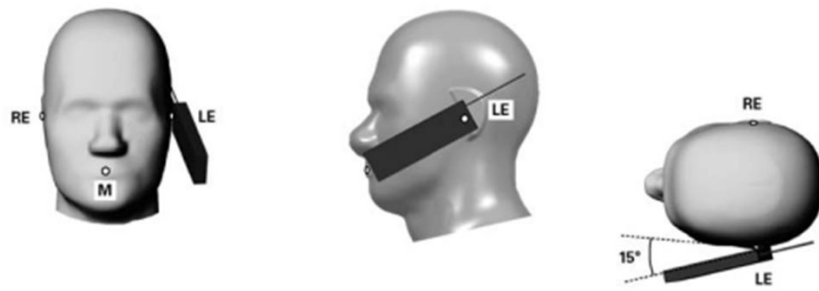
Cheek Position

- 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



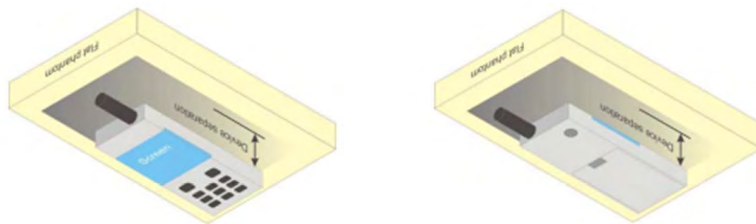
Title Position

- (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.



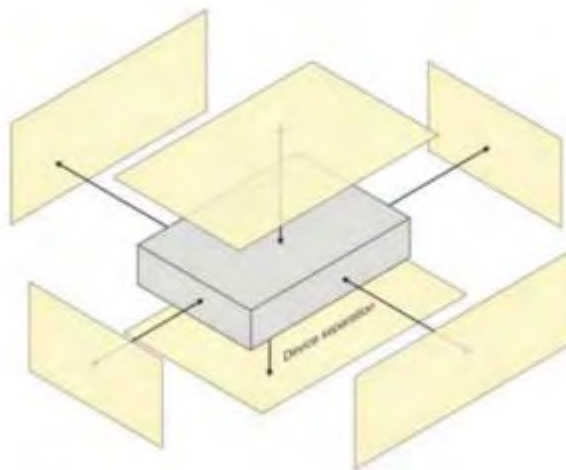
Body-worn Position Conditions

- (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. 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	$\sqrt{3}$	$(1-cp)^{1/2}$	$(1-cp)^{1/2}$	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	√3	1	1	2.89	2.89	∞
Phantom and set-up									
18	Phantom uncertainty	4.0	R	√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%	

10. Conducted Power Measurement

Test Result:

Burst Average Power (dBm)						
Band	GSM 850			PCS 1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880.0	1909.8
GSM(GMSK, 1-Slot)	27.82	27.84	27.87	26.96	26.81	26.75
GPRS (GMSK, 1-Slot)	27.03	27.23	27.63	26.66	26.59	26.39
GPRS (GMSK, 2-Slot)	25.54	25.63	25.47	25.95	25.81	25.74
GPRS (GMSK, 3-Slot)	24.88	24.76	24.93	24.75	24.29	24.31
GPRS (GMSK, 4-Slot)	24.34	24.58	24.67	23.34	23.14	23.25
EGPRS(8psk, 1-Slot)	27.05	27.24	27.28	26.61	26.52	26.36
EGPRS(8psk, 2-Slot)	26.85	26.79	26.91	25.45	25.27	25.19
EGPRS(8psk, 3-Slot)	25.47	25.54	25.63	24.26	24.14	24.08
EGPRS(8psk, 4-Slot)	24.17	24.00	24.36	23.22	23.06	23.11
Remark: GPRS, CS4 coding scheme. EGPRS, MCS9 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						

Fram- Average Power(dBm)						
Band	GSM 850			PCS 1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880.0	1909.8
GSM(GMSK, 1-Slot)	18.82	18.84	18.87	17.96	17.81	17.75
GPRS (GMSK, 1-Slot)	18.03	18.23	18.63	17.66	17.59	17.39
GPRS (GMSK, 2-Slot)	19.54	19.63	19.47	19.95	19.81	19.74
GPRS (GMSK, 3-Slot)	20.62	20.50	20.67	20.75	20.03	20.05
GPRS (GMSK, 4-Slot)	21.34	21.58	21.67	20.34	20.14	20.25
EGPRS(8psk, 1-Slot)	18.05	18.24	18.28	17.61	17.52	17.36
EGPRS(8psk, 2-Slot)	20.85	20.79	20.91	19.45	19.27	19.19
EGPRS(8psk, 3-Slot)	21.21	21.28	21.37	20.00	19.88	19.82
EGPRS(8psk, 4-Slot)	21.17	21.00	21.36	20.22	20.06	20.11
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						

WCDMA

Band	WCDMA Band II			WCDMA Band V		
Channel	9263	9400	9537	4132	4182	4233
Frequency (MHz)	1852.4	1880.0	1907.6	826.4	836.6	846.6
RMC 12.2Kbps	21.10	21.18	21.30	22.53	22.42	22.32
HSDPA Subtest-1	21.01	21.05	21.08	22.29	22.29	22.07
HSDPA Subtest-2	20.53	20.62	20.71	21.95	21.87	21.92
HSDPA Subtest-3	20.23	20.15	20.13	21.26	21.23	21.24
HSDPA Subtest-4	19.15	19.02	19.06	20.19	20.17	20.06
HSUPA Subtest-1	21.04	21.09	21.01	22.24	22.21	22.25
HSUPA Subtest-2	20.94	20.88	20.73	21.27	21.29	21.07
HSUPA Subtest-3	20.55	20.47	20.58	21.11	21.13	21.21
HSUPA Subtest-4	19.12	19.11	19.08	20.05	20.12	20.15
HSUPA Subtest-5	18.07	18.11	18.01	19.47	19.65	19.73

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.

WIFI

Mode	Channel Number	Frequency (MHz)	PEAK Power (dBm)
802.11b	1	2412	9.340
	6	2437	9.565
	11	2462	9.886
802.11g	1	2412	7.246
	6	2437	7.904
	11	2462	7.624
802.11n(HT-20)	1	2412	6.824
	6	2437	6.817
	11	2462	7.077
802.11n(HT-40)	3	2422	4.495
	6	2437	4.866
	9	2452	4.920

Bluetooth

Mode	Channel Number	Frequency (MHz)	PEAK Power (dBm)
GFSK(1M)	0	2402	3.994
	39	2441	4.462
	78	2480	4.745
$\pi/4$ -DQPSK(2Mbps)	0	2402	2.991
	39	2441	3.285
	78	2480	3.782
8-DPSK(3Mbps)	0	2402	2.237
	39	2441	2.639
	78	2480	2.908

11. EUT And Test Setup Photo

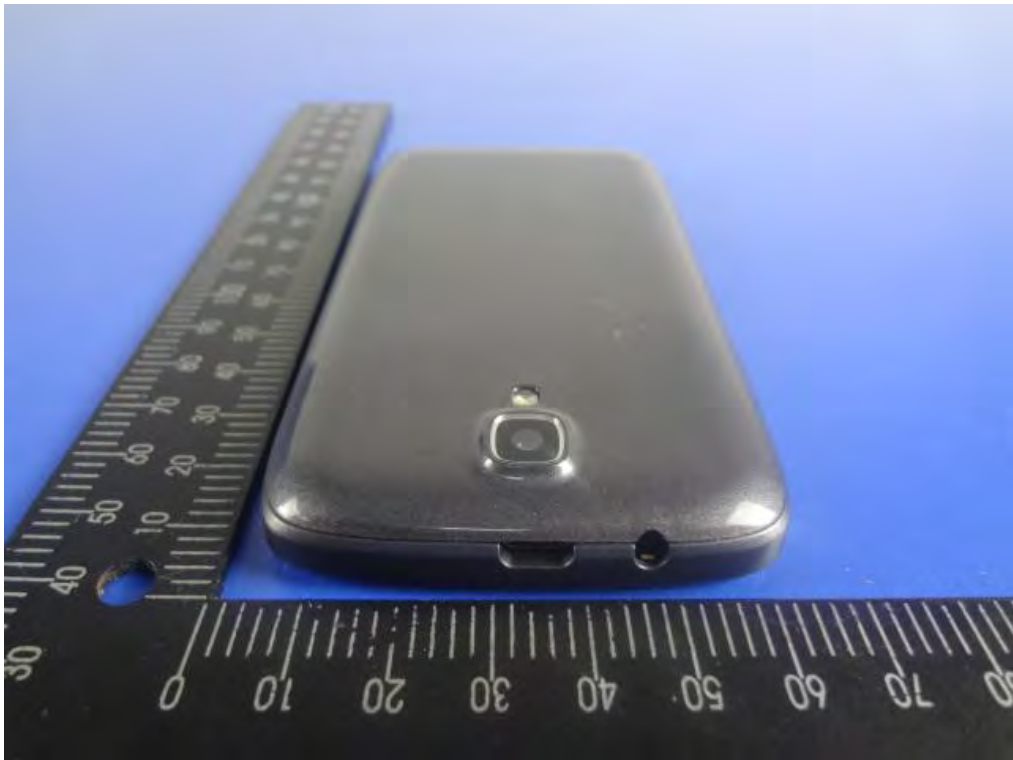
11.1 EUT Photo



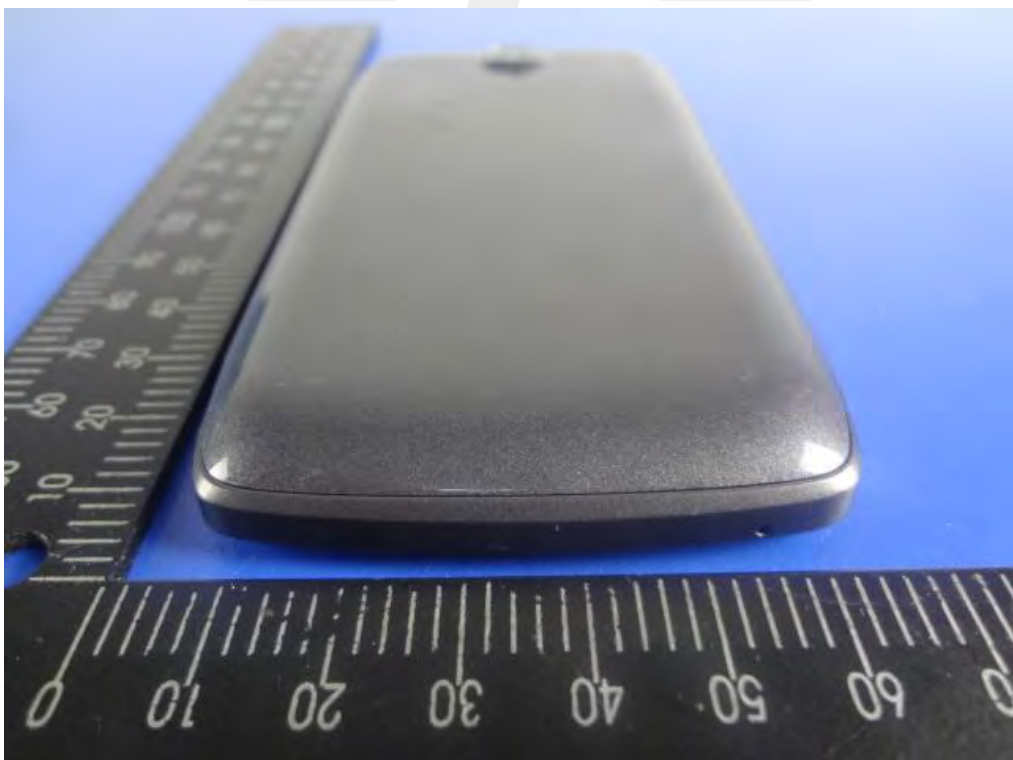
Front side



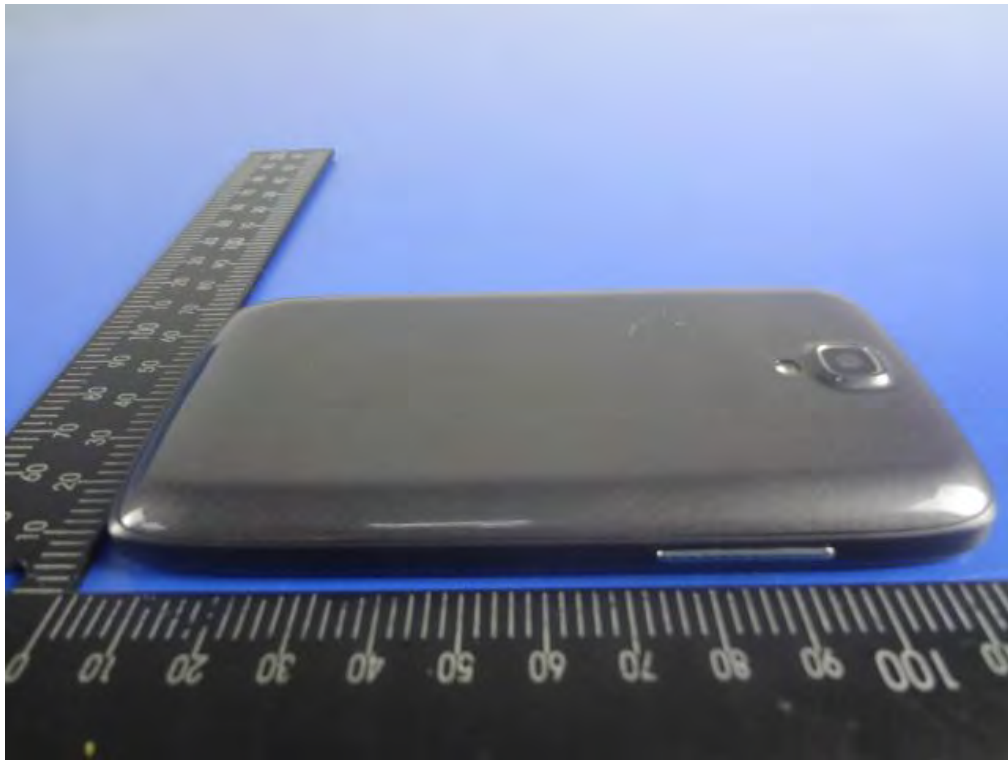
Back side



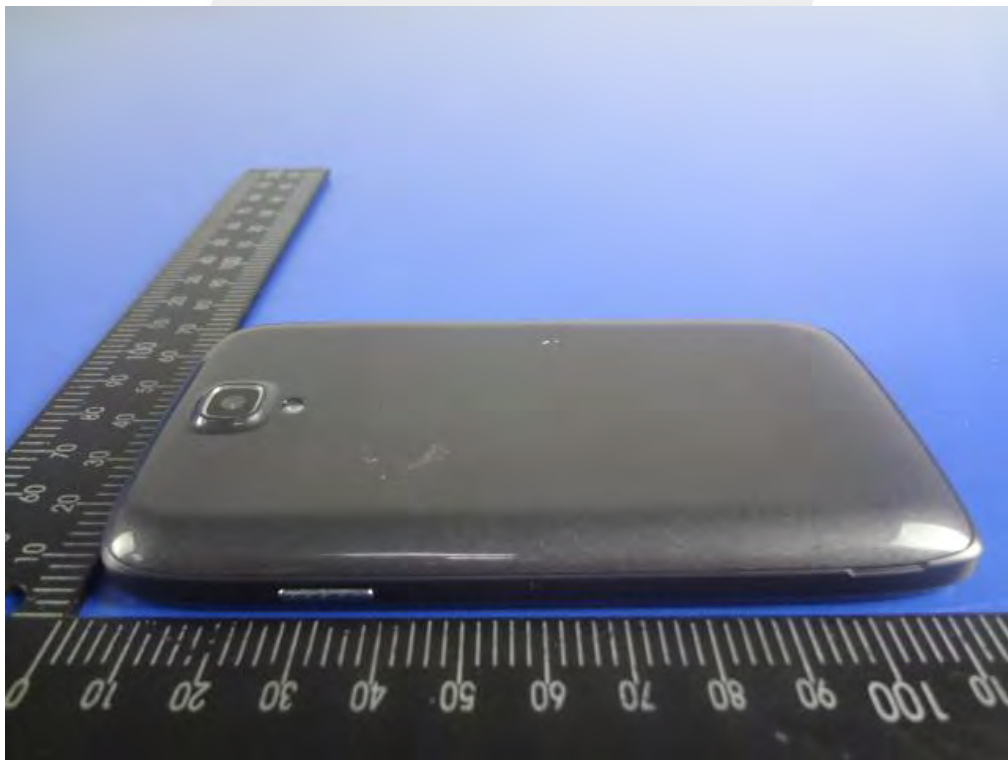
Top side



Bottom side

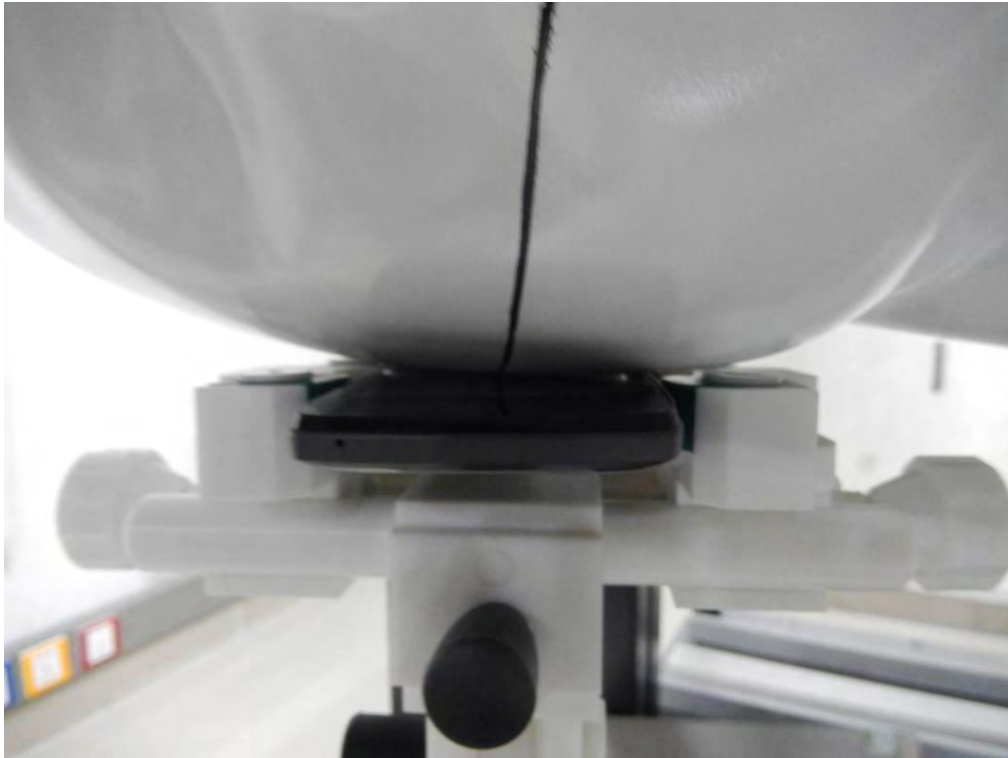


Left side

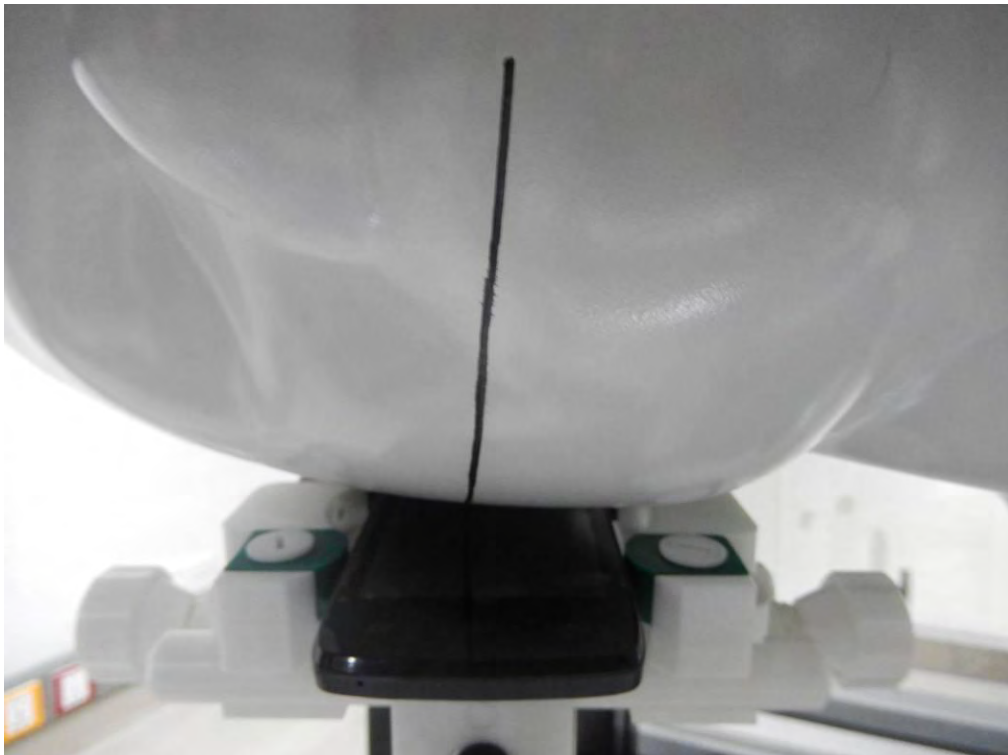


Right side

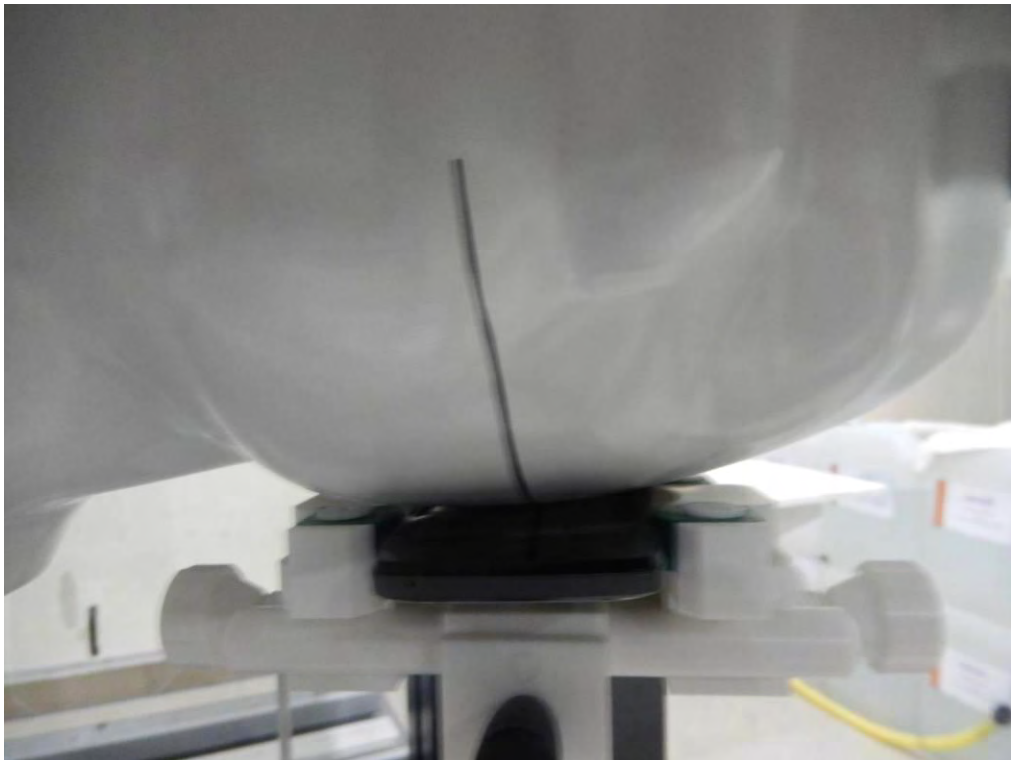
11.2 Setup Photo



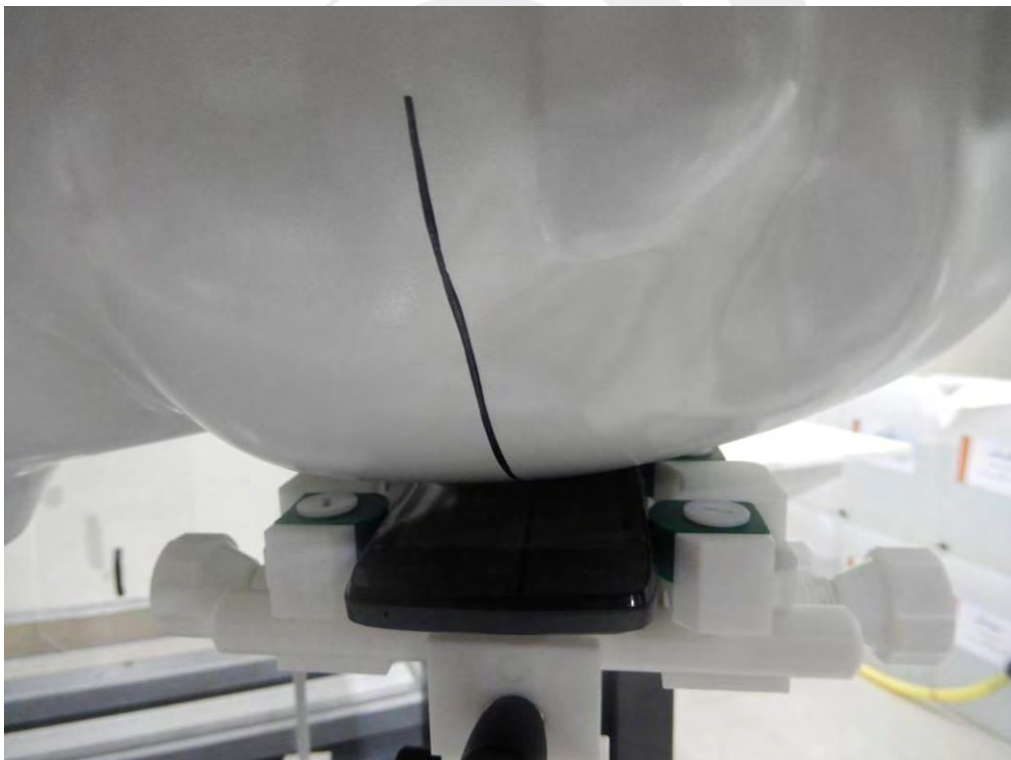
Right Touch



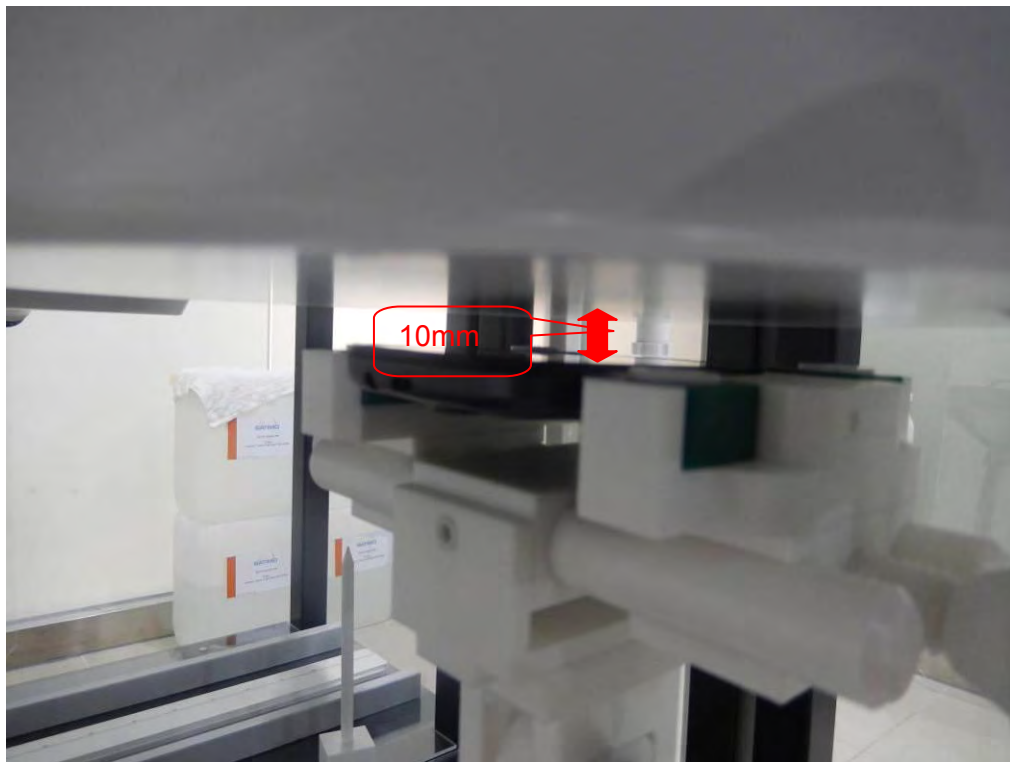
Right Tilt



Left Touch



Left Tilt



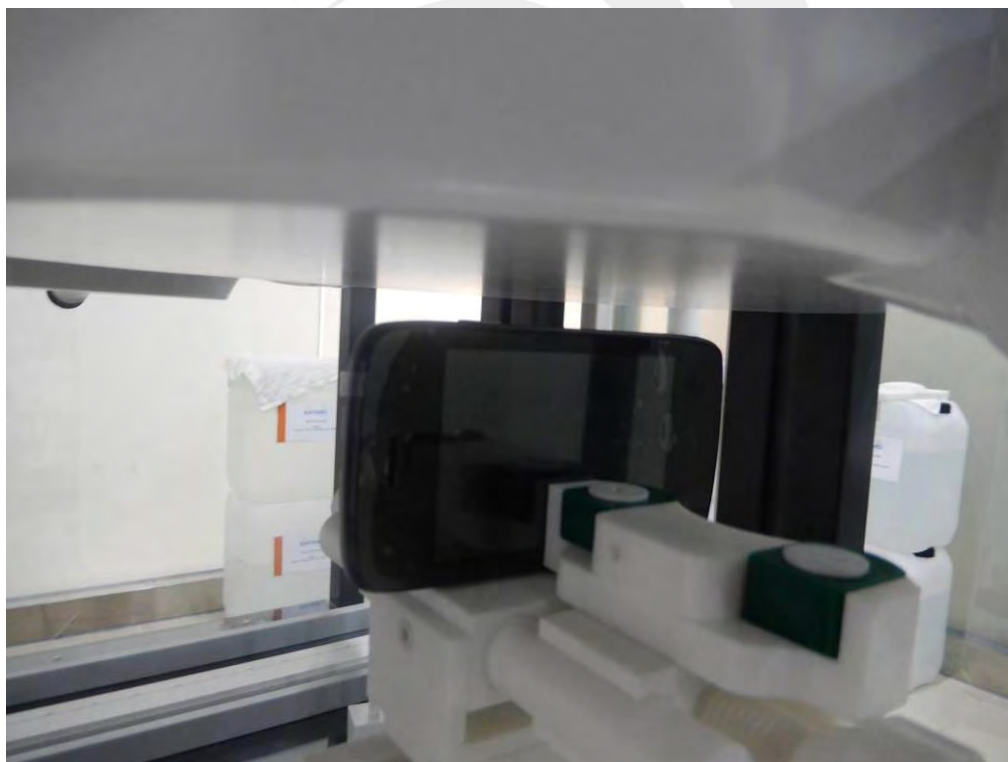
Body Front side



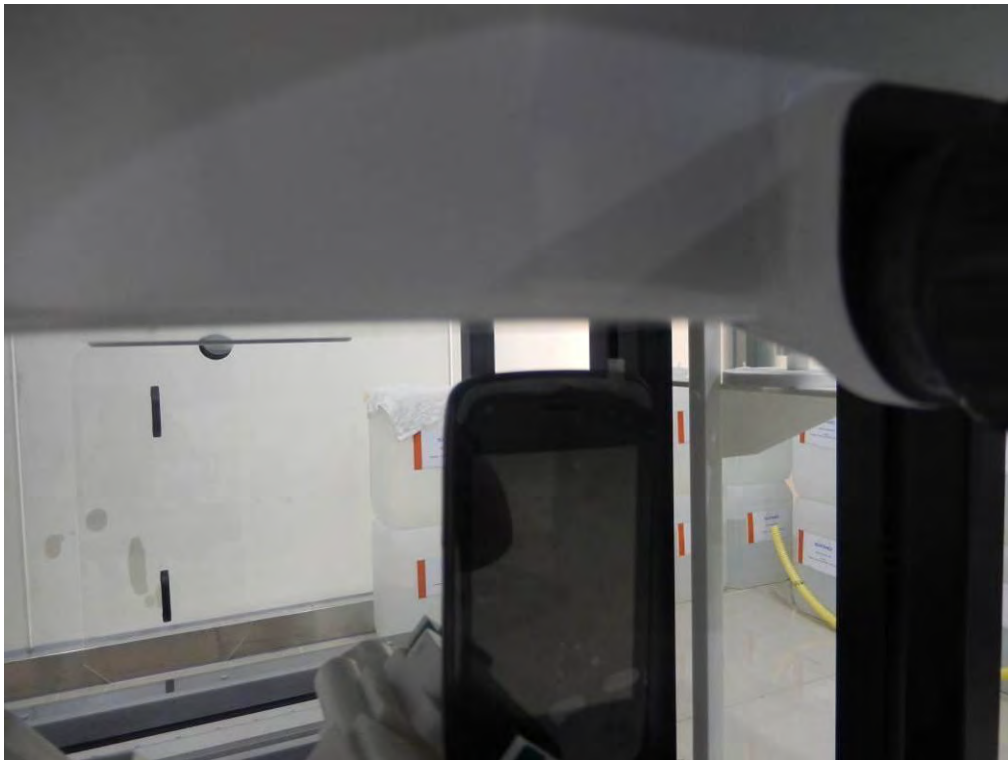
Body Back side



Body left side



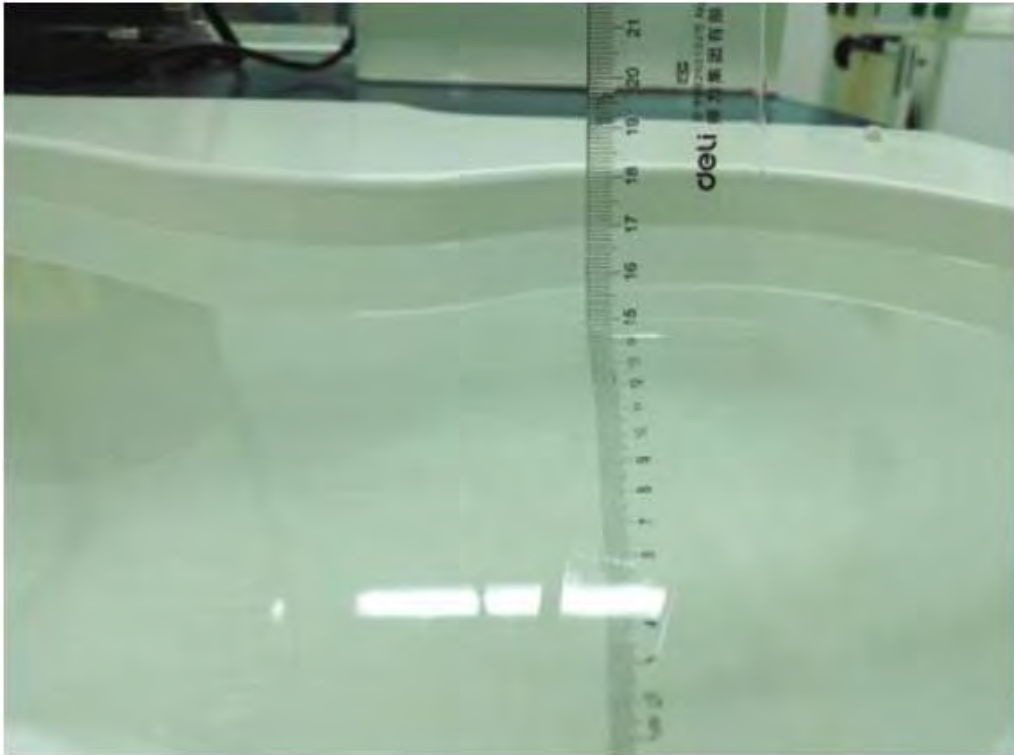
Body right side



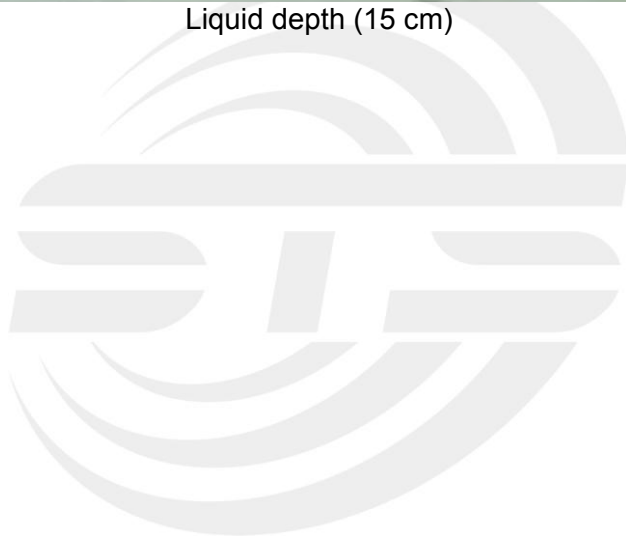
Body top side



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	0.722	2.30	28	27.87	0.744	1
		Right Tilt	CH 251	0.559	1.32	28	27.87	0.576	2
		Left Cheek	CH 251	0.721	4.71	28	27.87	0.743	3
		Left Tilt	CH 251	0.519	-2.93	28	27.87	0.535	4
GSM1900	Voice	Right Cheek	CH 512	0.245	0.24	27	26.96	0.247	15
		Right Tilt	CH 512	0.121	-0.40	27	26.96	0.122	16
		Left Cheek	CH 512	0.184	-1.73	27	26.96	0.185	17
		Left Tilt	CH 512	0.152	-2.27	27	26.96	0.153	18
WCDMA II	RMC	Right Cheek	CH9888	0.624	-0.56	22	21.3	0.730	29
		Right Tilt	CH9888	0.418	3.98	22	21.3	0.489	30
		Left Cheek	CH9888	0.663	-0.33	22	21.3	0.776	31
		Left Tilt	CH9888	0.429	-1.77	22	21.3	0.502	32
WCDMA V	RMC	Right Cheek	CH2712	0.605	1.11	23	22.53	0.674	38
		Right Tilt	CH2712	0.466	0.78	23	22.53	0.519	39
		Left Cheek	CH2712	0.599	0.05	23	22.53	0.668	40
		Left Tilt	CH2712	0.438	0.25	23	22.53	0.488	41
WIFI	DATA	Right Cheek	CH11	0.097	3.25	10	9.886	0.100	47
		Right Tilt	CH11	0.082	0.24	10	9.886	0.084	48
		Left Cheek	CH11	0.215	1.20	10	9.886	0.221	49
		Left Tilt	CH11	0.152	2.03	10	9.886	0.156	50

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	Voice (body-worn)	Front side	CH 251	0.696	2.59	28	27.87	0.702	5
		Back side	CH 251	0.756	-0.03	28	27.87	0.762	6
		Left side	CH 251	0.369	-3.67	28	27.87	0.372	7
		Right side	CH 251	0.366	4.46	28	27.87	0.369	8
		Bottom side	CH 251	0.076	-1.67	28	27.87	0.077	9
	GPRS Data-4 Slot (hotspot)	Front side	CH 251	0.605	0.58	25	24.67	0.652	10
		Back side	CH 251	0.695	-3.22	25	24.67	0.750	11
		Left side	CH 251	0.405	1.17	25	24.67	0.437	12
		Right side	CH 251	0.300	3.94	25	24.67	0.324	13
		Bottom side	CH 251	0.078	1.90	25	24.67	0.084	14
GSM1900	Voice	Front side	CH 512	0.393	-1.90	27	26.96	0.396	19
		Back side	CH 512	0.426	0.04	27	26.96	0.429	20
		Left side	CH 512	0.100	-0.84	27	26.96	0.101	21
		Right side	CH 512	0.076	-2.47	27	26.96	0.077	22
		Bottom side	CH 512	0.664	-2.31	27	26.96	0.669	23
	GPRS Data-3 Slot (hotspot)	Front side	CH 512	0.382	0.16	25	24.75	0.404	24
		Back side	CH 512	0.426	0.06	25	24.75	0.450	25
		Left side	CH 512	0.075	-0.44	25	24.75	0.079	26
		Right side	CH 512	0.073	3.00	25	24.75	0.077	27
		Bottom side	CH 512	0.587	3.56	25	24.75	0.620	28
WCDMA II	RMC (body-worn and hotspot)	Front side	CH9888	0.555	-0.51	22	21.3	0.650	33
		Back side	CH9888	0.718	-0.77	22	21.3	0.840	34
		Left side	CH9888	0.225	0.17	22	21.3	0.263	35
		Right side	CH9888	0.181	-0.49	22	21.3	0.212	36
		Bottom side	CH9888	0.576	0.02	22	21.3	0.674	37
WCDMA V	RMC (body-worn and hotspot)	Front side	CH2712	0.587	-1.27	23	22.53	0.654	42
		Back side	CH2712	0.728	-1.40	23	22.53	0.811	43
		Left side	CH2712	0.415	-0.28	23	22.53	0.463	44
		Right side	CH2712	0.373	-0.12	23	22.53	0.416	45
		Bottom side	CH2712	0.104	-0.07	23	22.53	0.116	46

WIFI	DATA (body-worn and hotspot)	Front side	CH4132	0.282	-3.15	10	9.886	0.290	51
		Back side	CH4132	0.159	-1.04	10	9.886	0.163	52
		Left side	CH4132	0.215	-2.04	10	9.886	0.221	53
		Right side	CH4132	0.138	0.65	10	9.886	0.142	54

Note:

Two card slot can't work at the same time.

The test separation of all above table is 10mm.

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
Body	1. GSM + WIFI
	2. GSM + Bluetooth
	3. WCDMA + WIFI
	4. WCDMA + Bluetooth

NOTE:

1. Bluetooth and WIFI can't simultaneous transmission at the same time.
2. For simultaneous transmission at head and body exposure position, 2 transmitters simultaneous transmission was the worst state.
3. Based upon KDB 447498 D01 v05, BT SAR is excluded as below table.
4. If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.
5. 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
6. The reported SAR summation is calculated based on the same configuration and test position.
7. KDB 447498 / 4.3.2 (2) when standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:

a) $(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm}) \cdot [\sqrt{f} \text{ (GHz)} / x] \text{ W/kg}$ for test separation distances $\leq 50 \text{ mm}$;

Where $x = 7.5$ for 1-g SAR, and $x = 18.75$ for 10-g SAR.

b) 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	5	3.16	5	2.480	0.133
	Body			10	2.480	0.066

Simultaneous Mode	Position	Mode	Max. 1-g SAR (W/kg)	1-g Sum SAR (W/kg)
GSM + WIFI	Head	GSM Voice	0.744	0.965
		WIFI	0.221	
	Body-worn	GSM Voice	0.762	1.052
		WIFI	0.290	
	Hotspot	GSM DATA	0.750	1.040
		WIFI	0.290	
GSM + Bluetooth	Head	GSM Voice	0.744	0.877
		Bluetooth	0.133	
	Body-worn	GSM Voice	0.762	0.828
		Bluetooth	0.066	
	Hotspot	GSM DATA	0.750	0.816
		Bluetooth	0.066	
WCDMA RMC+ WIFI	Head	WCDMA RMC	0.776	0.997
		WIFI	0.221	
	Body-worn Hotspot	WCDMA RMC	0.840	1.130
		WIFI	0.290	
WCDMA RMC+ Bluetooth	Head	WCDMA RMC	0.776	0.909
		Bluetooth	0.133	
	Body-worn Hotspot	WCDMA RMC	0.840	0.906
		Bluetooth	0.066	

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

NO.	Instrument	Manufacturer	Model	S/N	Cal. Date	Cal. Due Date
1	835MHz Dipole	SATIMO	SID835	SN 30/14 DIP0G835-332	Sep.1, 2014	Sep.1, 2015
2	1900MHz Dipole	SATIMO	SID1900	SN 30/14 DIP1G900-333	Sep.1, 2014	Sep.1, 2015
3	2450MHz Dipole	SATIMO	SID2450	SN 30/14 DIP2G450-335	Sep.1, 2014	Sep.1, 2015
4	E-Field Probe	SATIMO	SSE5	SN 17/14 EP221	Sep.1, 2014	Sep.1, 2015
5	Antenna	SATIMO	ANTA3	SN 17/13 ZNTA45	Sep.1, 2014	Sep.1, 2015
6	Phantom1	SATIMO	SAM	SN 32/14 SAM115	Sep.1, 2014	Sep.1, 2015
7	Phantom2	SATIMO	SAM	SN 32/14 SAM116	Sep.1, 2014	Sep.1, 2015
8	Dielectric Probe Kit	Agilent	E5071C	MY461076 15	Sep.1, 2014	Sep.1, 2015
9	MultiMeter	Keithley	MultiMeter 2000	4050073	Sep.1, 2014	Sep.1, 2015
10	Signal Generator	R&S	SMF100A	1167.0000k02/ 104260	Sep.1, 2014	Sep.1, 2015
11	Power Meter	Agilent	5738A	11290	Sep.1, 2014	Sep.1, 2015
12	Power Sensor	R&S	NRP-Z21	103971	Sep.1, 2014	Sep.1, 2015
13	Power Amplifier	SATIMO	6552B	22374	Sep.1, 2014	Sep.1, 2015
14	Wireless Communication Test Set	Agilent	8960-E5515C	MY50260493	Sep.1, 2014	Sep.1, 2015
15	Network Analyzer	RS	5071C	EMY46103472	Sep.1, 2014	Sep.1, 2015

Appendix A. System Validation Plots

System Performance Check Data(835MHz Head)

Type: Phone measurement (Complete)

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

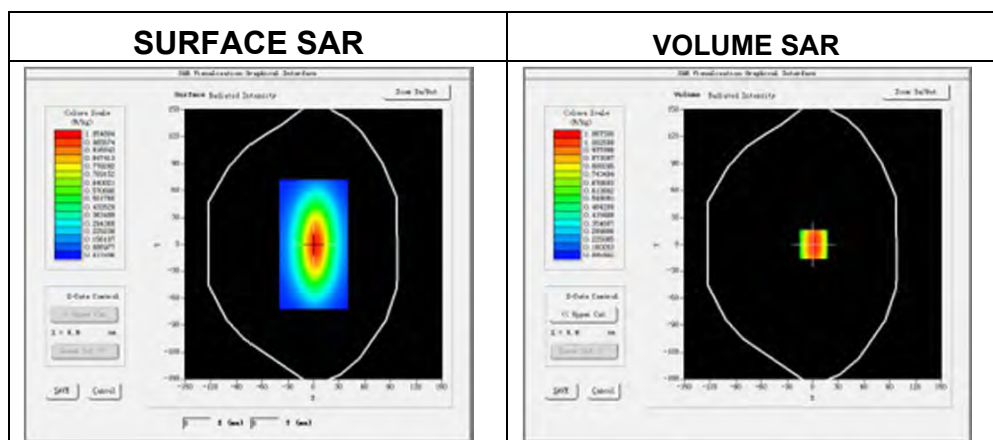
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2014.11.24

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)	41.27
Relative permittivity	18.72
Conductivity (S/m)	0.91
Power drift (%)	0.45
Ambient Temperature:	22.7 °C
Liquid Temperature:	22.3 °C
ConvF:	4.83
Crest factor:	1:1



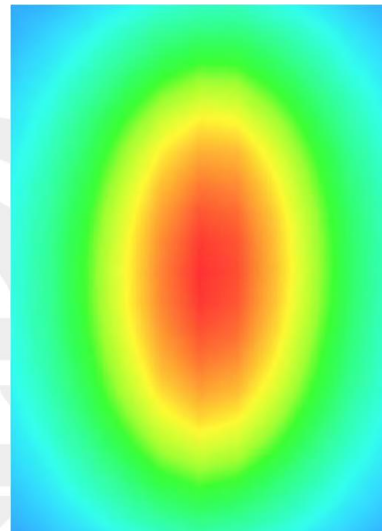
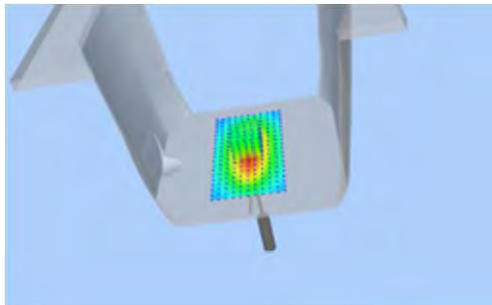
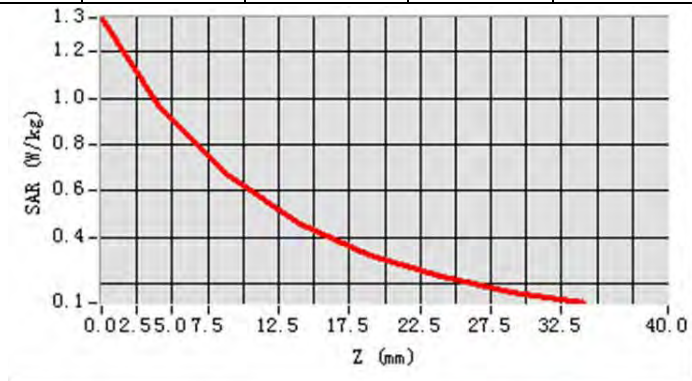
Maximum location: X=1.00, Y=0.00

SAR Peak: 1.46 W/kg

SAR 10g (W/Kg)	0.608155
SAR 1g (W/Kg)	0.93716

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

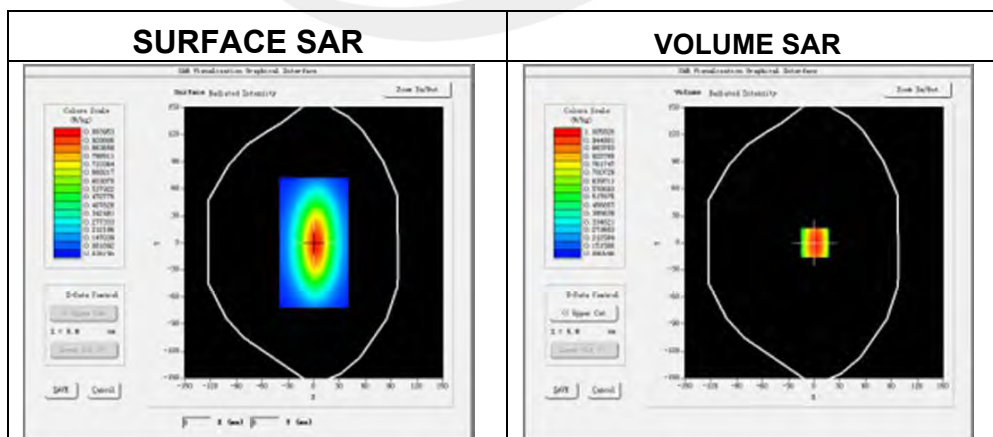
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2014.11.24

Measurement duration: 14 minutes 13 seconds

Experimental conditions.

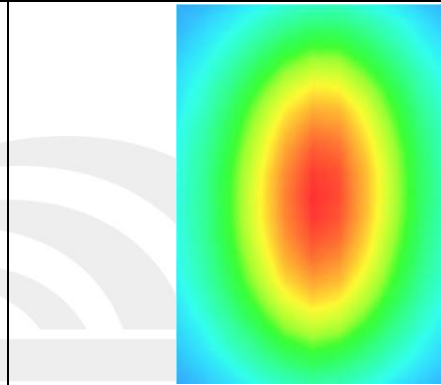
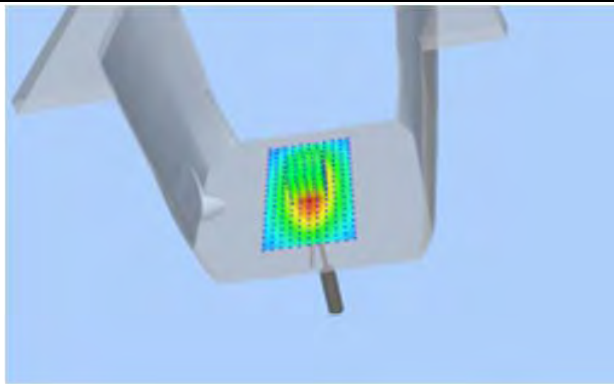
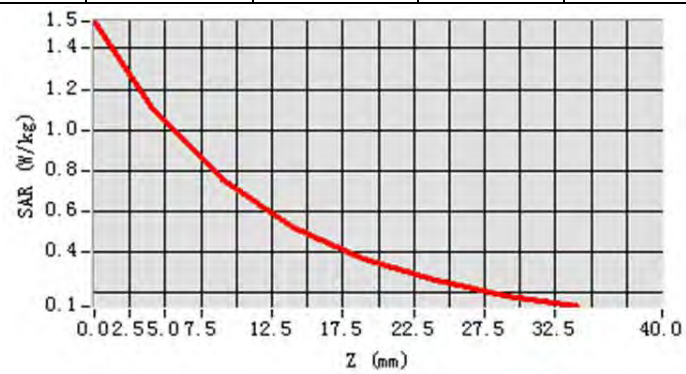
Probe	
Phantom	Validation plane
Device Position	-
Band	835MHz
Channels	-
Signal	CW
Frequency (MHz)	835MHz
Relative permittivity (real part)	55.50
Relative permittivity	21.408187
Conductivity (S/m)	0.96
Power drift (%)	0.090000
Ambient Temperature:	22.7 °C
Liquid Temperature:	22.3 °C
ConvF:	5.02
Crest factor:	1:1

**Maximum location: X=1.00, Y=0.00****SAR Peak: 1.48 W/kg**

SAR 10g (W/Kg)	0.693221
SAR 1g (W/Kg)	0.967939

Z Axis Scan

Z (mm)	0	4	9	14	19	24	29
SAR(W/Kg)	1.3725	1.0058	0.6838	0.4755	0.3314	0.2365	0.1688



System Performance Check Data(1900MHz Head)

Type: Phone measurement (Complete)

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

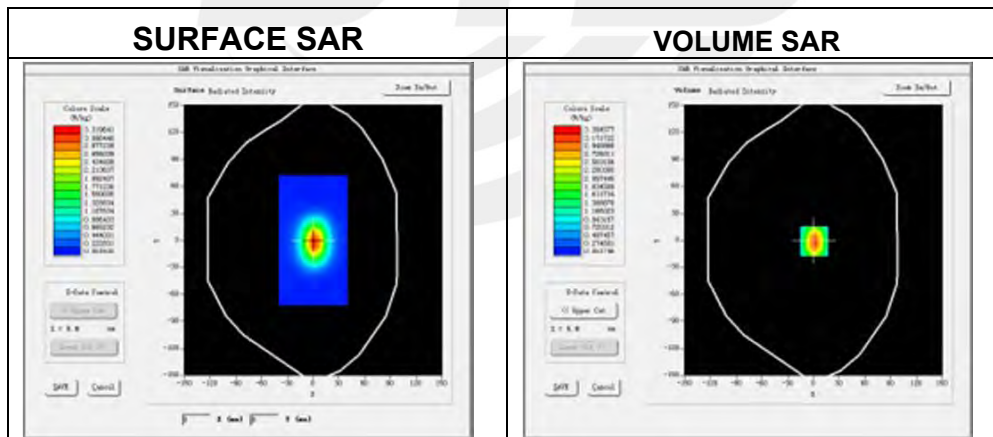
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2014.11.24

Measurement duration: 14 minutes 12 seconds

Experimental conditions.

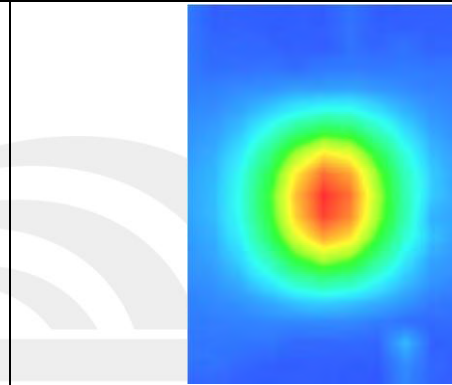
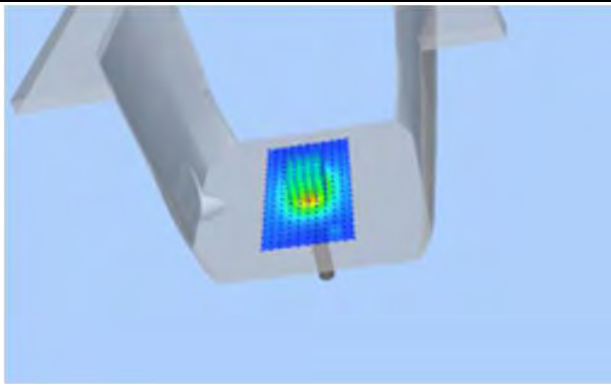
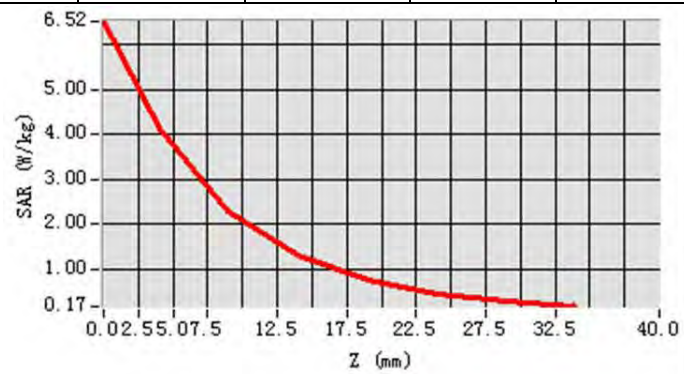
Phantom	Validation plane
Device Position	-
Band	1900MHz
Channels	-
Signal	CW
Frequency (MHz)	1900MHz
Relative permittivity (real part)	39.57
Relative permittivity	13.26
Conductivity (S/m)	1.40
Power drift (%)	0.47
Ambient Temperature:	22.7 °C
Liquid Temperature:	22.3 °C
Probe	SN 17/14 EP221
ConvF:	4.71
Crest factor:	1:1

**Maximum location: X=1.00, Y=0.00****SAR Peak: 5.39 W/kg**

SAR 10g (W/Kg)	1.967525
SAR 1g (W/Kg)	3.840170

Z Axis Scan

Z (mm)	0	4	9	14	19	24	29
SAR(W/Kg)	6.5296	4.1946	2.3311	1.3187	0.5733	0.3288	0.1617



System Performance Check Data(1900MHz Body)

Type: Phone measurement (Complete)

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

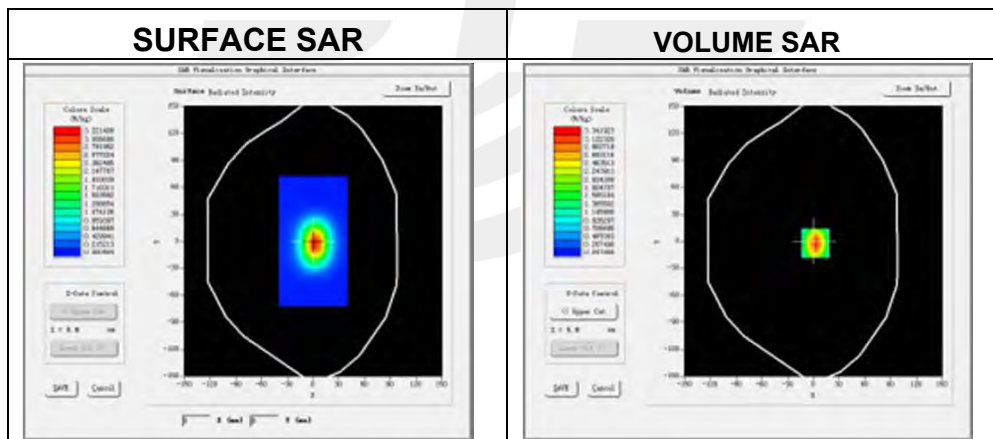
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2014.11.24

Measurement duration: 14 minutes 46 seconds

Experimental conditions.

Device Position	-
Band	1900MHz
Channels	-
Signal	CW
Frequency (MHz)	1900
Relative permittivity (real part)	51.68
Relative permittivity	12.87531
Conductivity (S/m)	1.51
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



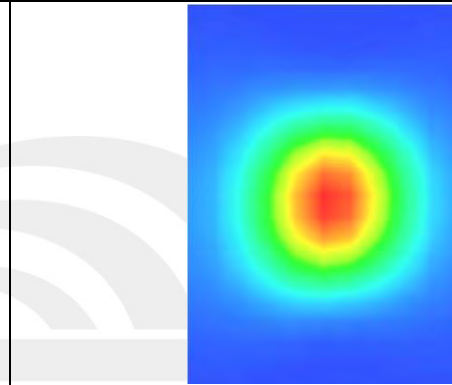
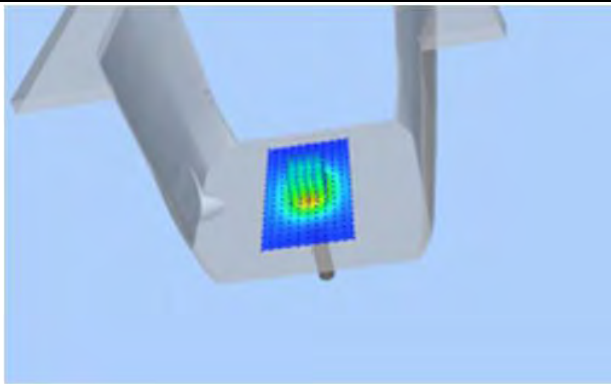
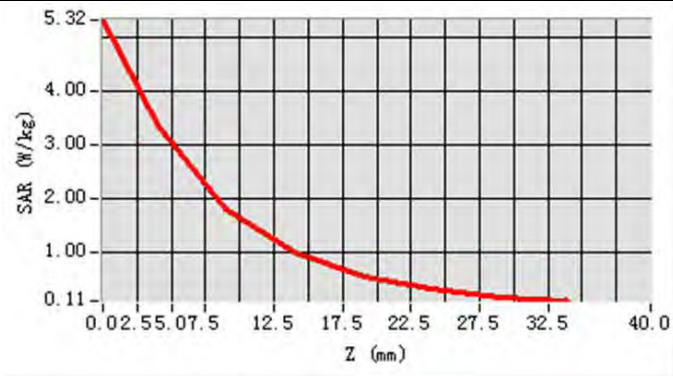
Maximum location: X=2.00, Y=2.00

SAR Peak: 5.27 W/kg

SAR 10g (W/Kg)	2.124122
SAR 1g (W/Kg)	4.141824

Z Axis Scan

Z (mm)	0	4	9	14	19	24	29
SAR(W/Kg)	5.3196	3.3419	1.8167	1.0186	0.5752	0.3285	0.1898



System Performance Check Data (2450MHz Head)

Type: Phone measurement (Complete)

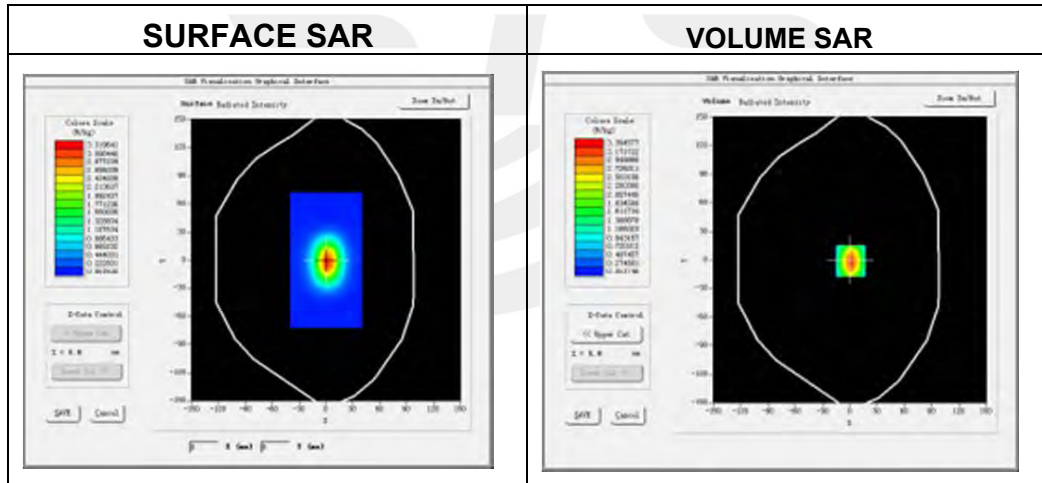
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2014.11.24

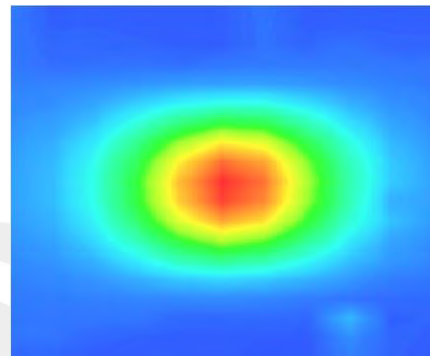
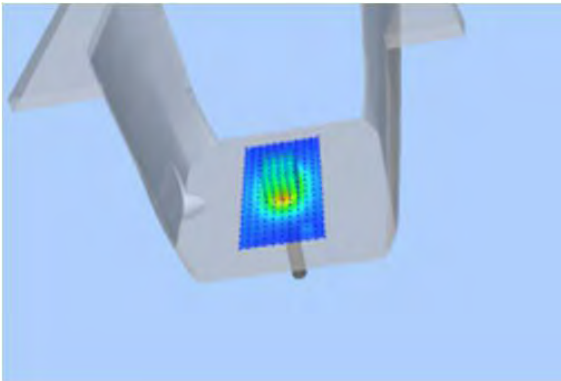
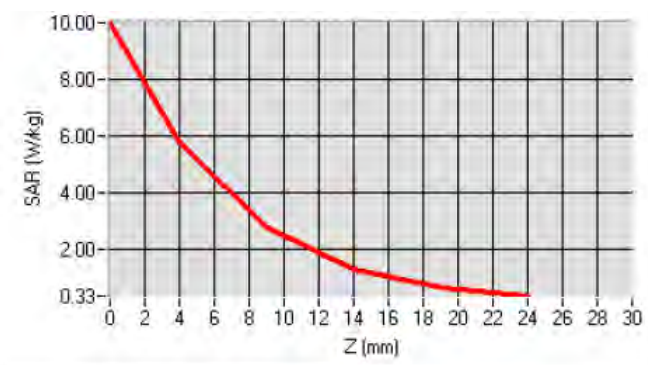
Experimental conditions.

Device Position	Validation plane
Band	2450 MHz
Channels	-
Signal	CW
Frequency (MHz)	2450
Relative permittivity (real part)	39.226002
Relative permittivity	12.930000
Conductivity (S/m)	1.78
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=7.00, Y=6.00**

SAR 10g (W/Kg)	2.2649514
SAR 1g (W/Kg)	4.6249345

Z Axis Scan



System Performance Check Data (2450MHz Body)

Type: Phone measurement (Complete)

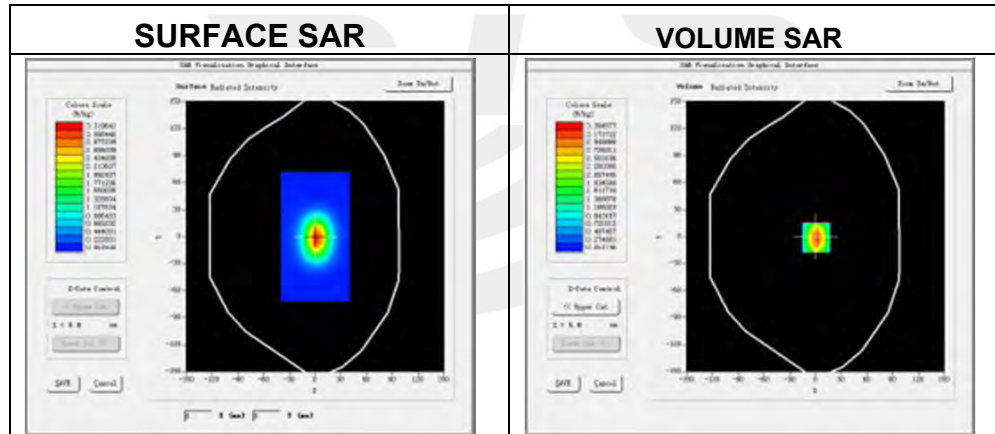
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2014.11.24

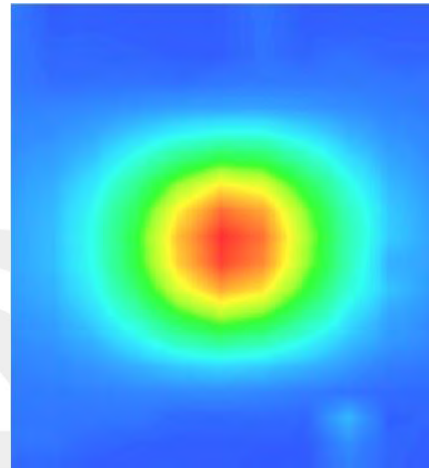
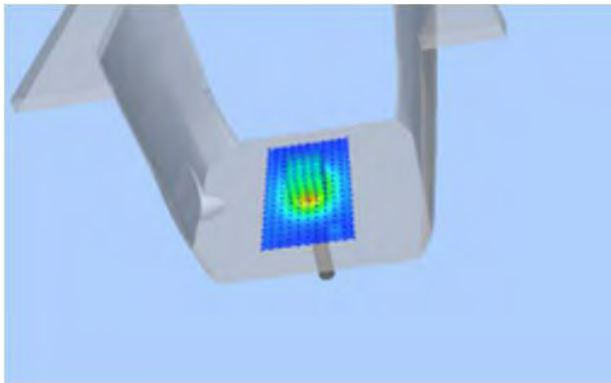
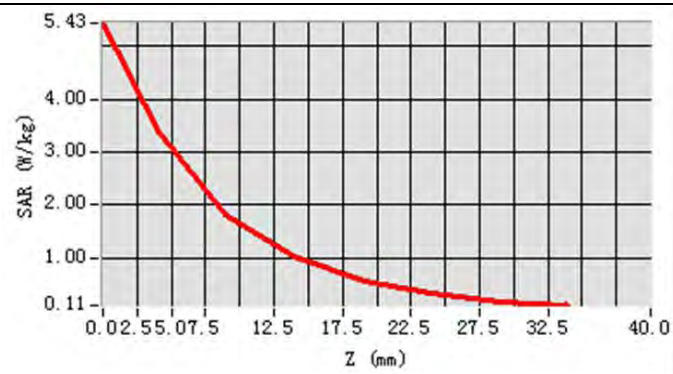
Experimental conditions.

Device Position	Validation plane
Band	2450 MHz
Channels	-
Signal	CW
Frequency (MHz)	2450
Relative permittivity (real part)	39.226002
Relative permittivity	12.930000
Conductivity (S/m)	1.95
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)	2.1589463
SAR 1g (W/Kg)	4.7459246

Z Axis Scan



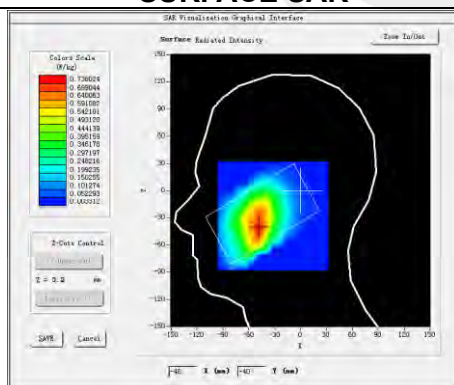
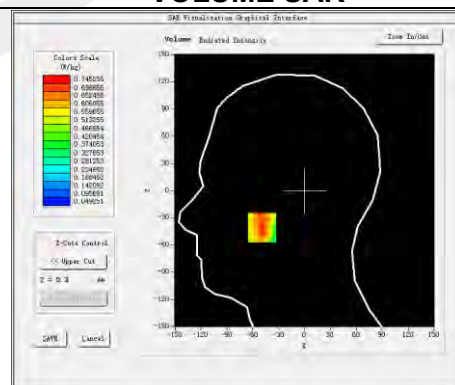
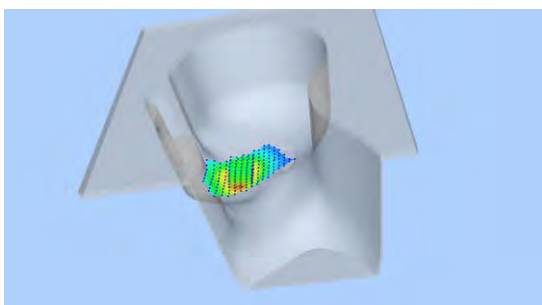
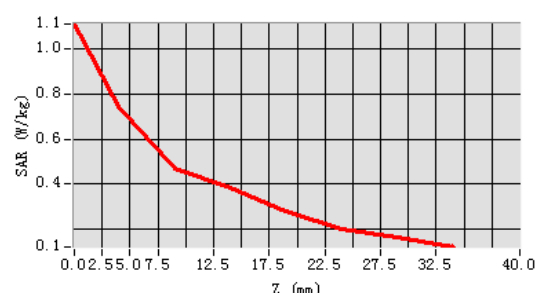
Appendix B. SAR Test Plots**Plot 1: DUT: 3G MOBILE PHONE; EUT Model: U511**

Test Data	2014-11-24
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	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	Middle
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	836.4
Relative permittivity (real part)	41.5
Conductivity (S/m)	0.90
Variation (%)	2.30

Maximum location: X=-49.00, Y=-41.00

SAR Peak: 1.13W/kg

SAR 10g (W/Kg)	0.482066
SAR 1g (W/Kg)	0.721584

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

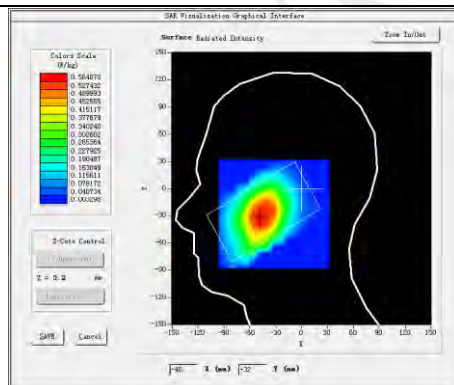
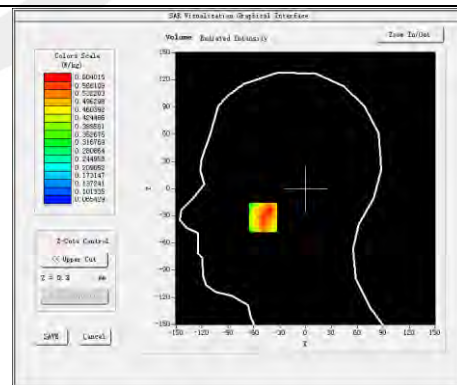
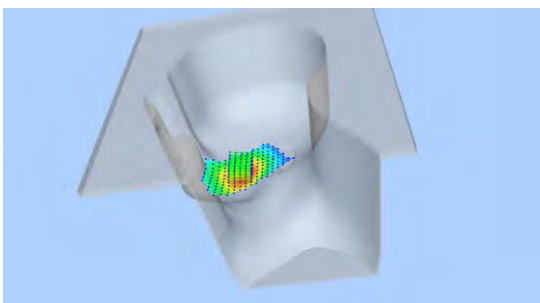
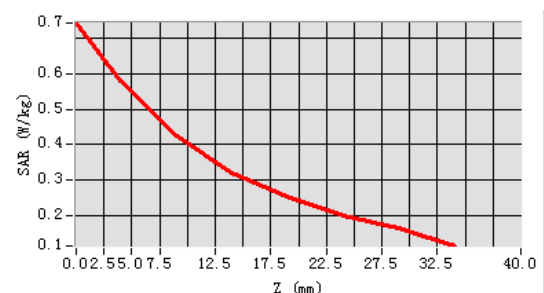
Plot 2: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	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	Middle
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	836.4
Relative permittivity (real part)	41.5
Conductivity (S/m)	0.90
Variation (%)	1.32

Maximum location: X=-49.00, Y=-32.00

SAR Peak: 0.82 W/kg

SAR 10g (W/Kg)	0.394797
SAR 1g (W/Kg)	0.559203

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

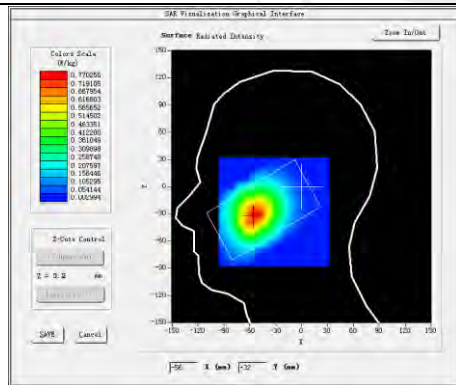
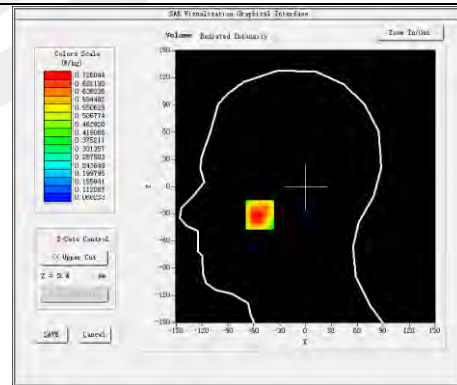
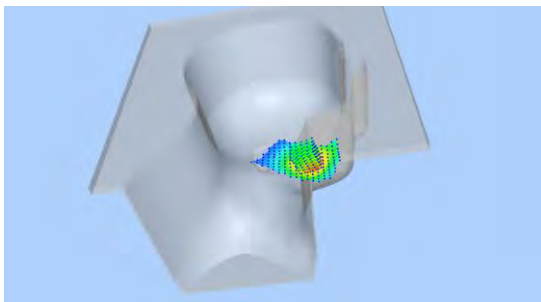
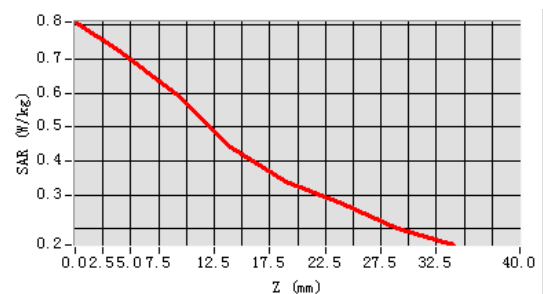
Plot 3: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	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	Middle
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	836.4
Relative permittivity (real part)	41.5
Conductivity (S/m)	0.90
Variation (%)	4.71

Maximum location: X=-53.00, Y=-31.00

SAR Peak: 0.99 W/kg

SAR 10g (W/Kg)	0.501082
SAR 1g (W/Kg)	0.721390

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

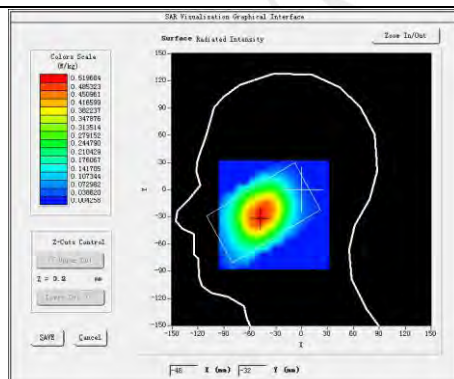
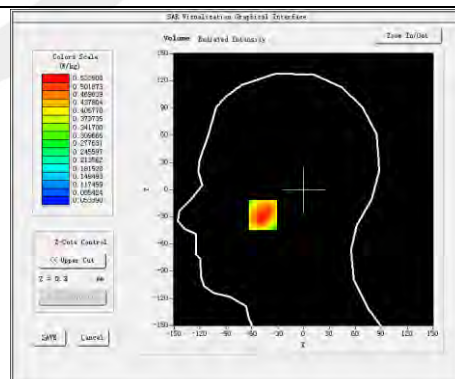
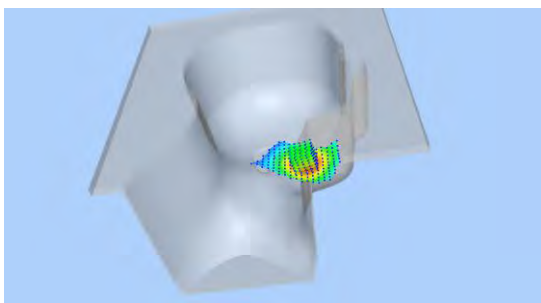
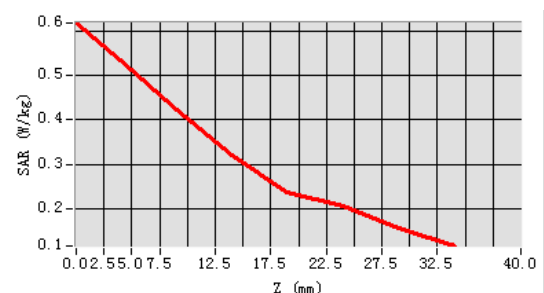
Plot 4: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	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	Middle
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	836.4
Relative permittivity (real part)	41.5
Conductivity (S/m)	0.90
Variation (%)	-2.93

Maximum location: X=-47.00, Y=-28.00

SAR Peak: 0.72 W/kg

SAR 10g (W/Kg)	0.364354
SAR 1g (W/Kg)	0.519379

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

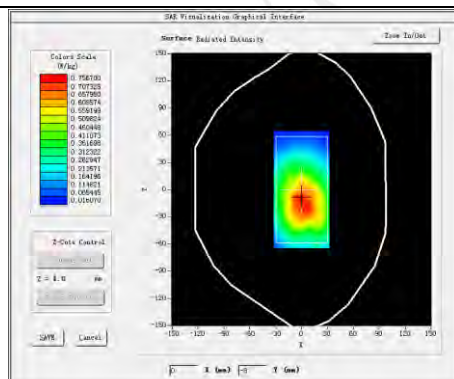
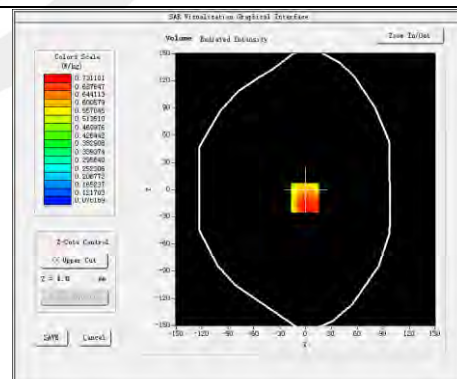
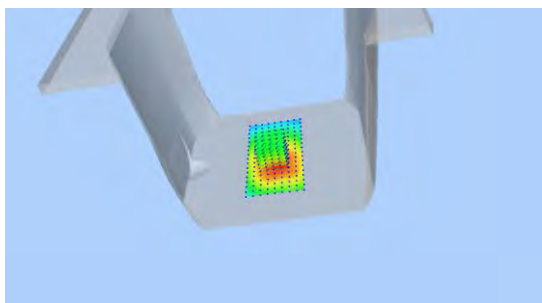
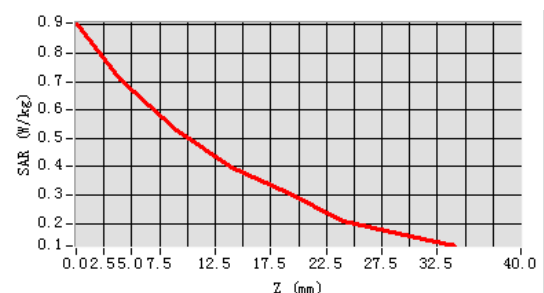
Plot 5: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
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	GSM850
Channels	Middle
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	836.40
Relative permittivity (real part)	55.20
Conductivity (S/m)	0.97
Variation (%)	2.59

Maximum location: X=-1.00, Y=-9.00

SAR Peak: 1.05 W/kg

SAR 10g (W/Kg)	0.497690
SAR 1g (W/Kg)	0.695897

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

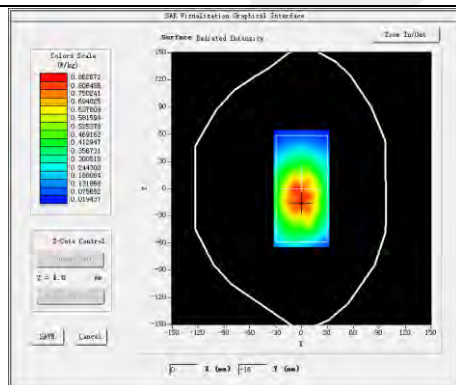
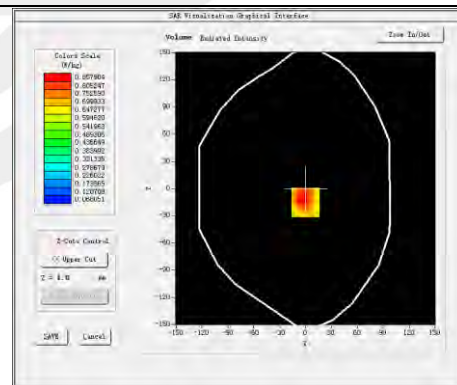
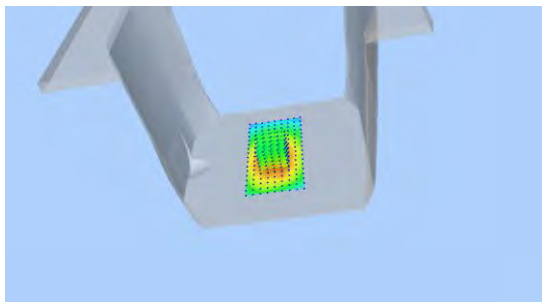
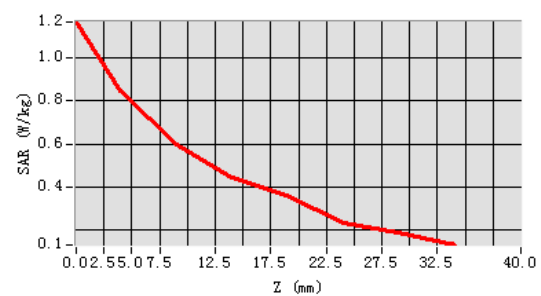
Plot 6: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
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 Behind
Band	GSM850
Channels	Middle
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	836.40
Relative permittivity (real part)	55.20
Conductivity (S/m)	0.97
Variation (%)	-0.03

Maximum location: X=0.00, Y=-15.00

SAR Peak: 1.29 W/kg

SAR 10g (W/Kg)	0.561535
SAR 1g (W/Kg)	0.755992

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

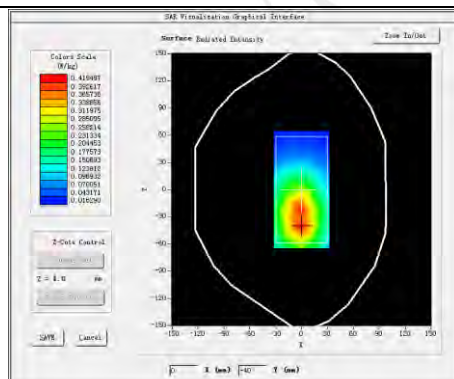
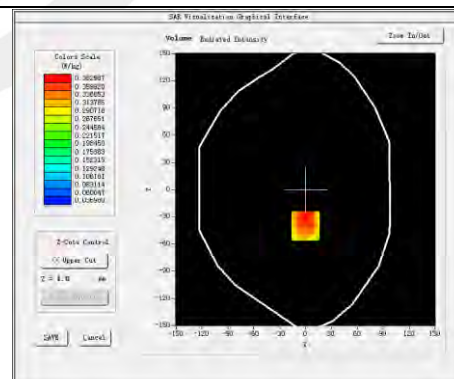
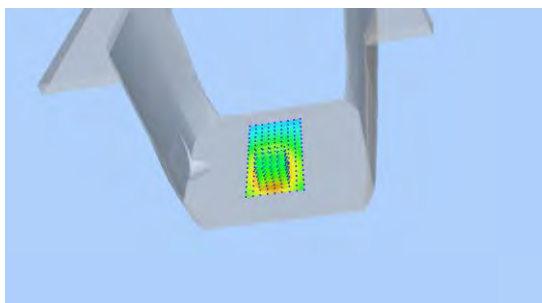
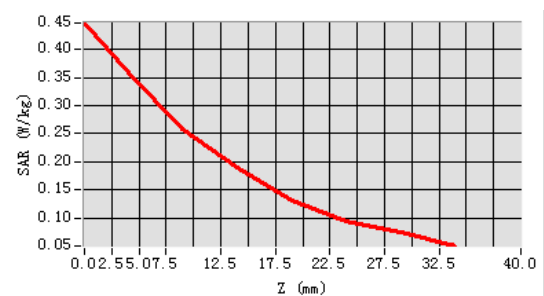
Plot 7: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	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 lift side
Band	GSM850
Channels	Middle
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	836.40
Relative permittivity (real part)	55.20
Conductivity (S/m)	0.97
Variation (%)	-3.67

Maximum location: X=0.00, Y=-40.00

SAR Peak: 0.54 W/kg

SAR 10g (W/Kg)	0.252904
SAR 1g (W/Kg)	0.369085

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

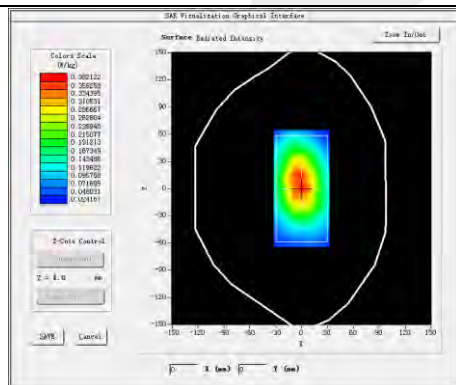
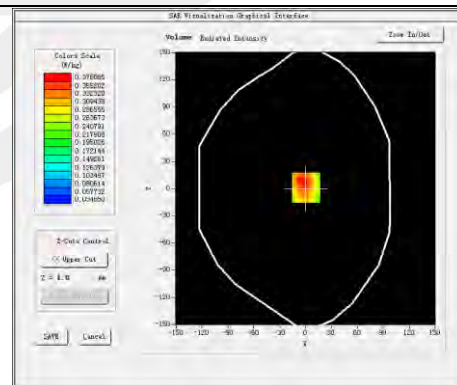
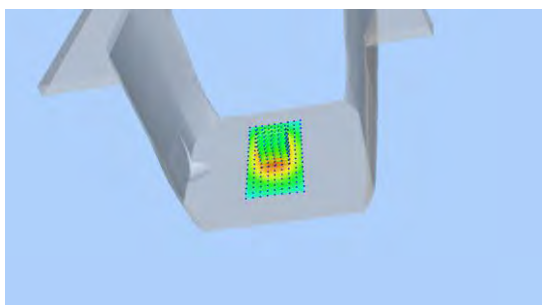
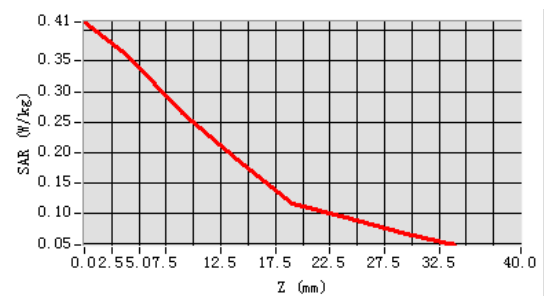
Plot 8: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
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	GSM850
Channels	Middle
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	836.40
Relative permittivity (real part)	55.20
Conductivity (S/m)	0.97
Variation (%)	4.46

Maximum location: X=1.00, Y=1.00

SAR Peak: 0.57 W/kg

SAR 10g (W/Kg)	0.235399
SAR 1g (W/Kg)	0.365760

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

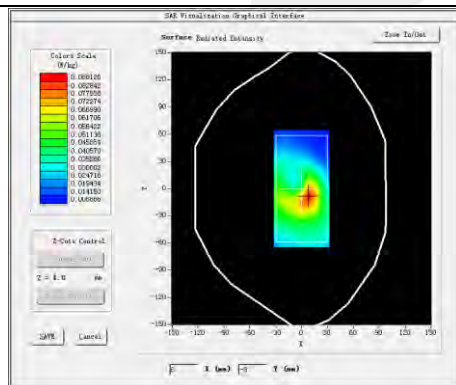
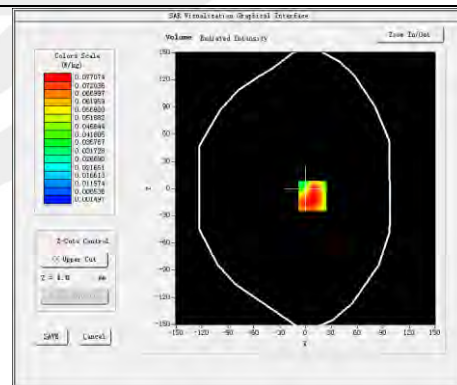
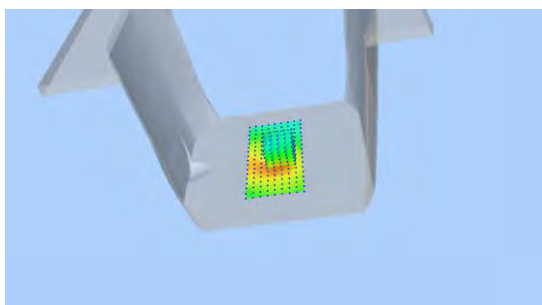
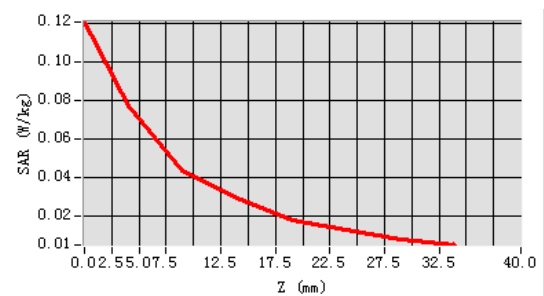
Plot 9: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
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 down side
Band	GSM850
Channels	Middle
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	836.40
Relative permittivity (real part)	55.20
Conductivity (S/m)	0.97
Variation (%)	-1.67

Maximum location: X=8.00, Y=-8.00

SAR Peak: 0.13 W/kg

SAR 10g (W/Kg)	0.045121
SAR 1g (W/Kg)	0.076462

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

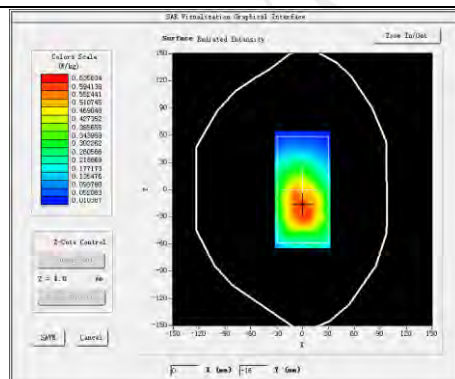
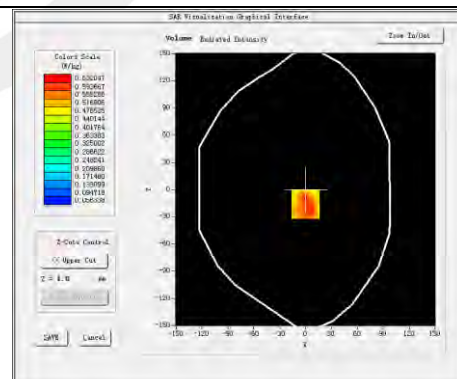
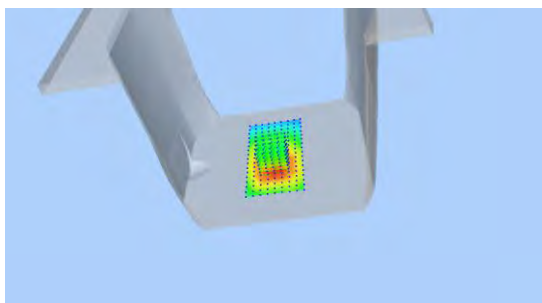
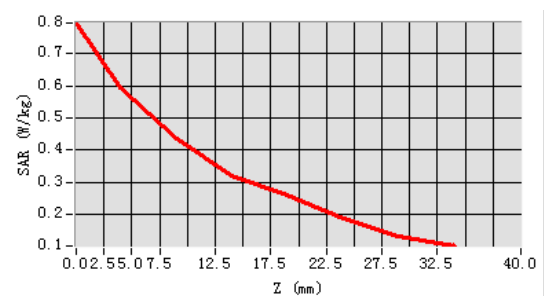
Plot 10: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
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	GPRS 850
Channels	Middle
Signal	TDMA (Crest factor: 2)
Frequency (MHz)	836.40
Relative permittivity (real part)	55.20
Conductivity (S/m)	0.97
Variation (%)	0.58

Maximum location: X=0.00, Y=-16.00

SAR Peak: 0.94 W/kg

SAR 10g (W/Kg)	0.404480
SAR 1g (W/Kg)	0.605105

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

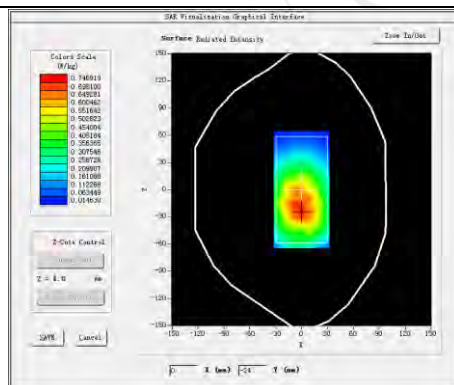
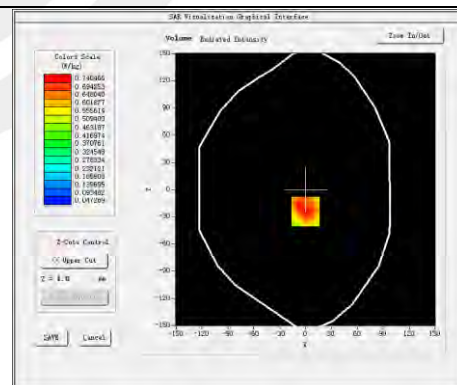
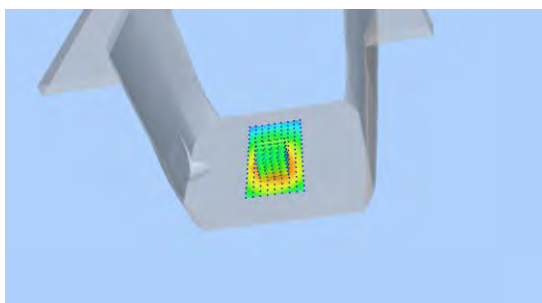
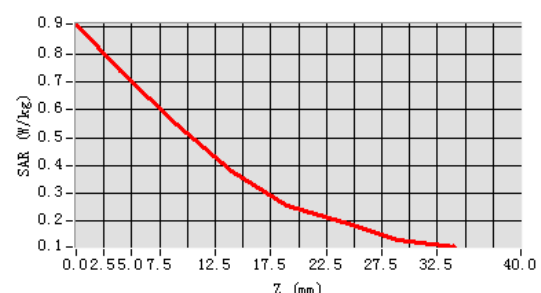
Plot 11: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
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 Behind
Band	GPRS 850
Channels	Middle
Signal	TDMA (Crest factor:2)
Frequency (MHz)	836.40
Relative permittivity (real part)	55.20
Conductivity (S/m)	0.97
Variation (%)	-3.22

Maximum location: X=0.00, Y=-24.00

SAR Peak: 0.98 W/kg

SAR 10g (W/Kg)	0.480103
SAR 1g (W/Kg)	0.695065

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

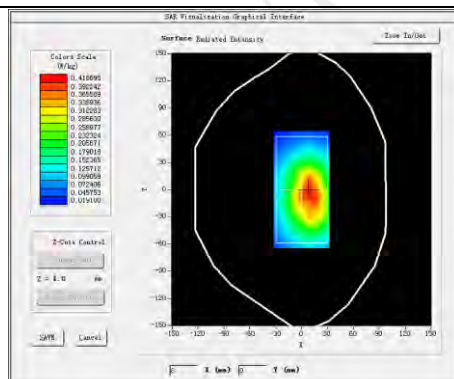
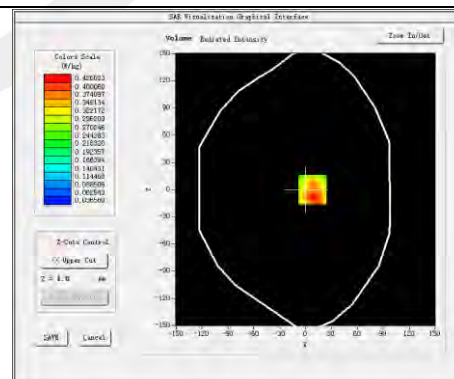
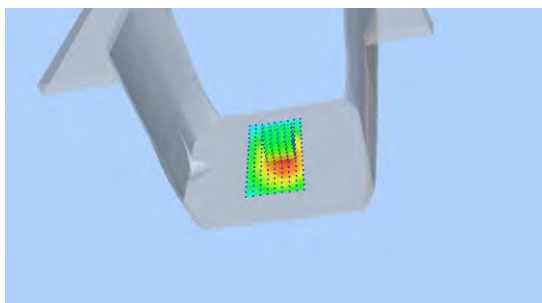
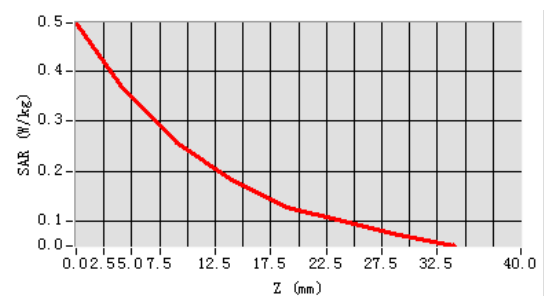
Plot 12: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
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 lift side
Band	GPRS 850
Channels	Middle
Signal	TDMA (Crest factor: 2)
Frequency (MHz)	836.40
Relative permittivity (real part)	55.20
Conductivity (S/m)	0.97
Variation (%)	1.17

Maximum location: X=8.00, Y=0.00

SAR Peak: 0.64 W/kg

SAR 10g (W/Kg)	0.256652
SAR 1g (W/Kg)	0.404807

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

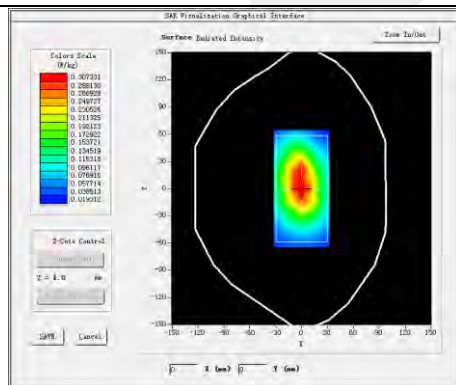
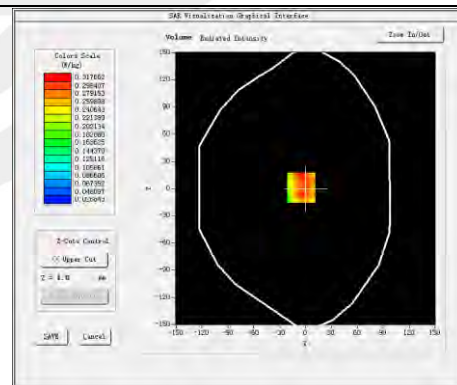
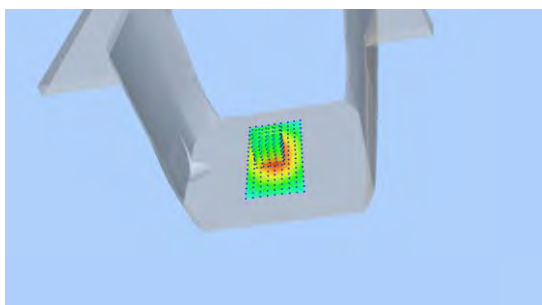
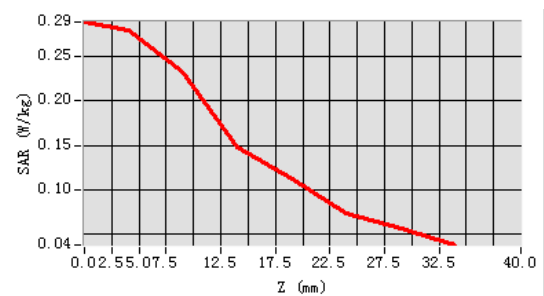
Plot 13: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
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	GPRS 850
Channels	Middle
Signal	TDMA (Crest factor: 2)
Frequency (MHz)	836.40
Relative permittivity (real part)	55.20
Conductivity (S/m)	0.97
Variation (%)	3.94

Maximum location: X=-5.00, Y=1.00

SAR Peak: 0.48W/kg

SAR 10g (W/Kg)	0.196755
SAR 1g (W/Kg)	0.300147

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

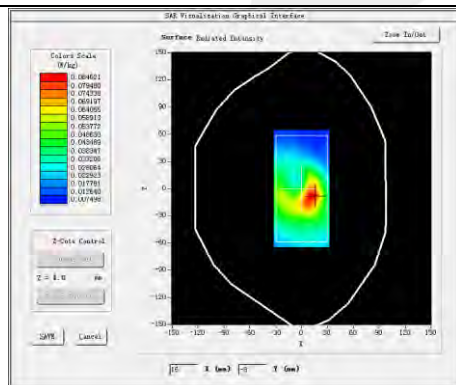
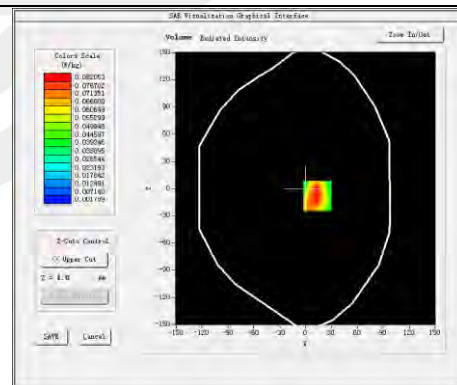
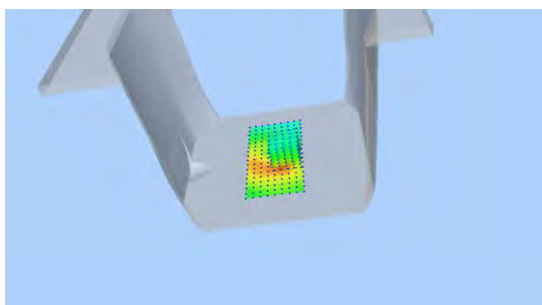
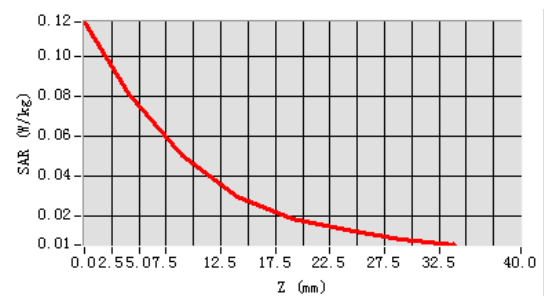
Plot 14: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
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 down side
Band	GPRS 850
Channels	Middle
Signal	TDMA (Crest factor: 2)
Frequency (MHz)	836.40
Relative permittivity (real part)	55.20
Conductivity (S/m)	0.97
Variation (%)	1.90

Maximum location: X=14.00, Y=-8.00

SAR Peak: 0.13 W/kg

SAR 10g (W/Kg)	0.045264
SAR 1g (W/Kg)	0.077921

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

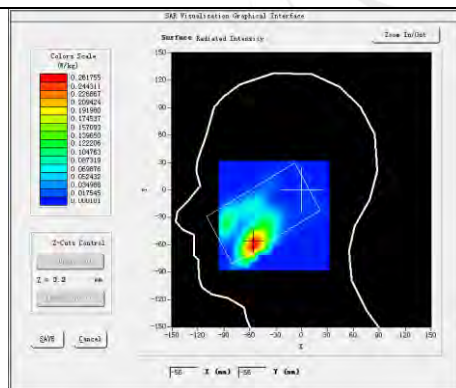
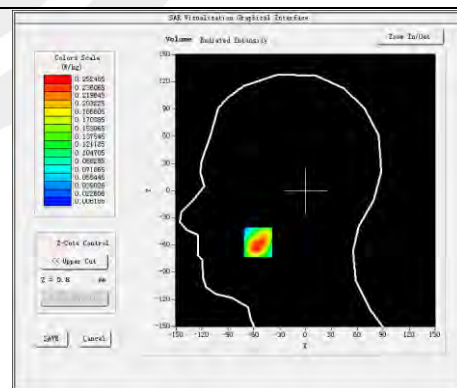
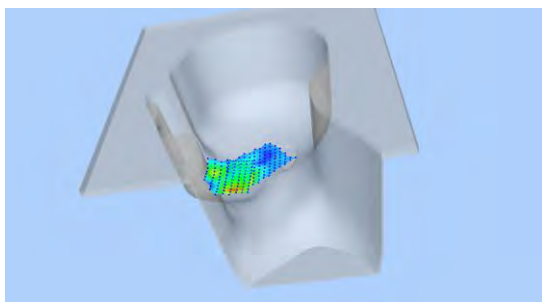
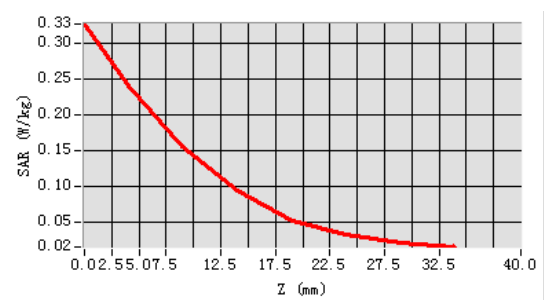
Plot 15: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
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	Low
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	1850.2
Relative permittivity (real part)	40.00
Conductivity (S/m)	1.40
Variation (%)	0.24

Maximum location: X=-55.00, Y=-57.00

SAR Peak: 0.38 W/kg

SAR 10g (W/Kg)	0.130291
SAR 1g (W/Kg)	0.244713

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

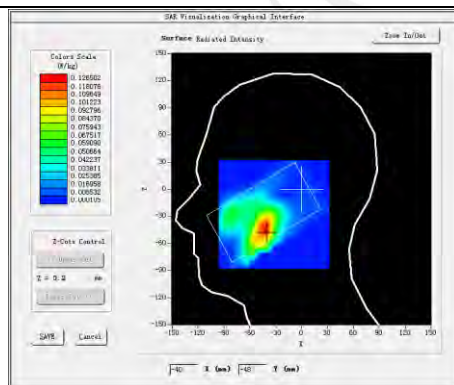
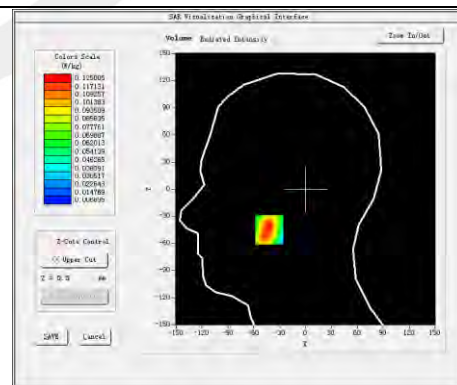
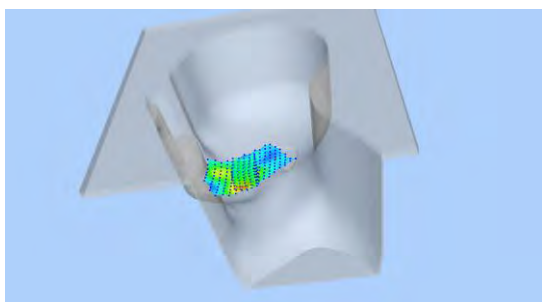
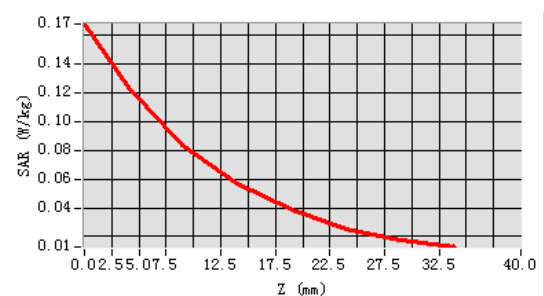
Plot 16: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
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	Low
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	1850.2
Relative permittivity (real part)	40.00
Conductivity (S/m)	1.40
Variation (%)	-0.40

Maximum location: X=-42.00, Y=-45.00

SAR Peak: 0.18W/kg

SAR 10g (W/Kg)	0.070203
SAR 1g (W/Kg)	0.120568

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

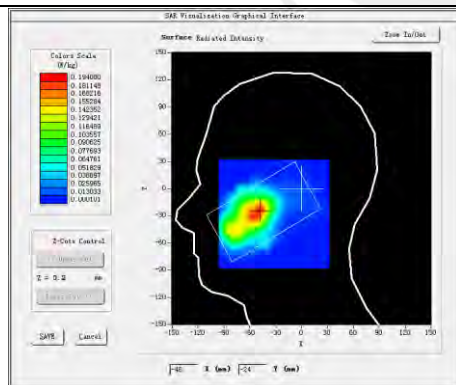
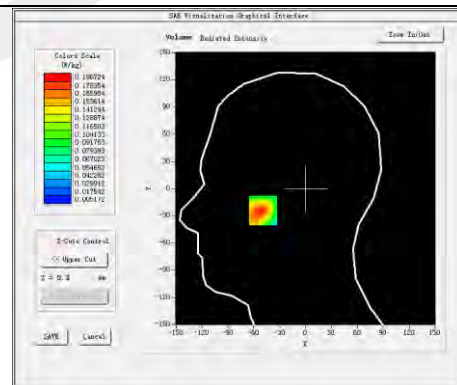
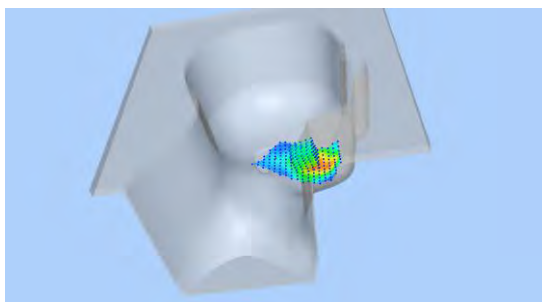
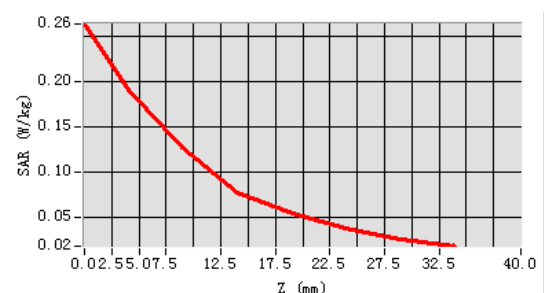
Plot 17: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
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	Low
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	1850.2
Relative permittivity (real part)	40.00
Conductivity (S/m)	1.40
Variation (%)	-1.73

Maximum location: X=-49.00, Y=-24.00

SAR Peak: 0.28W/kg

SAR 10g (W/Kg)	0.107410
SAR 1g (W/Kg)	0.183864

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

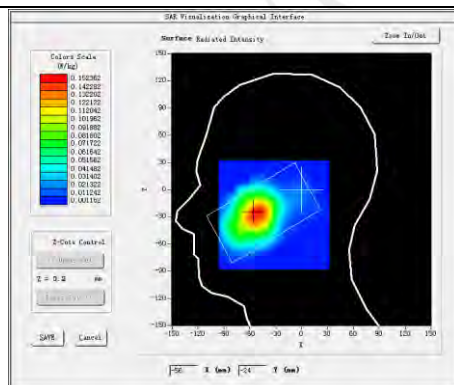
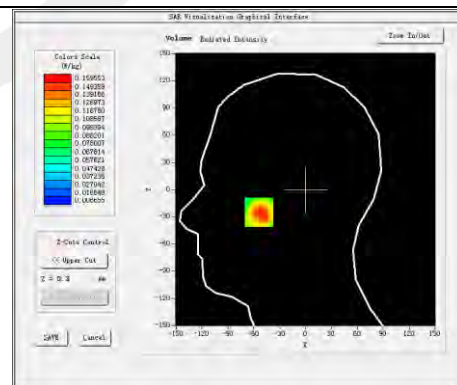
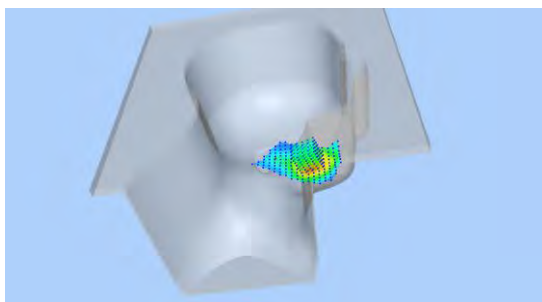
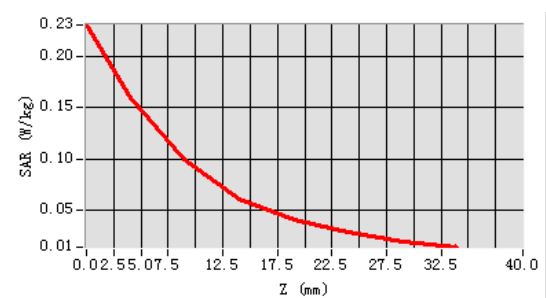
Plot 18: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
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	Low
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	1850.2
Relative permittivity (real part)	40.00
Conductivity (S/m)	1.40
Variation (%)	-2.27

Maximum location: X=-54.00, Y=-25.00

SAR Peak: 0.25W/kg

SAR 10g (W/Kg)	0.087221
SAR 1g (W/Kg)	0.151796

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

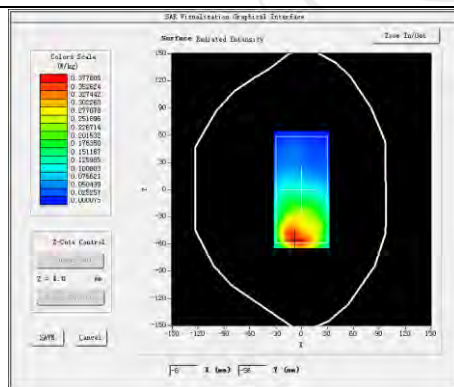
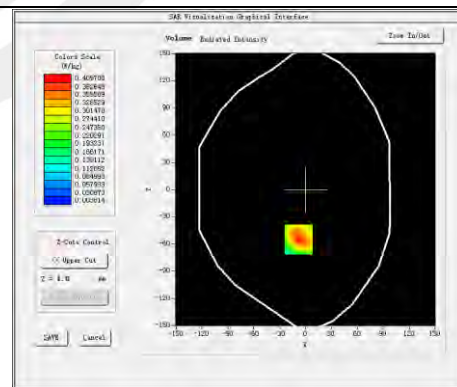
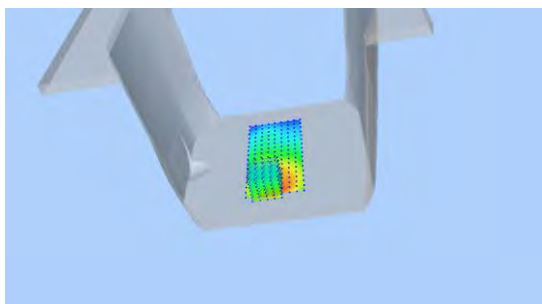
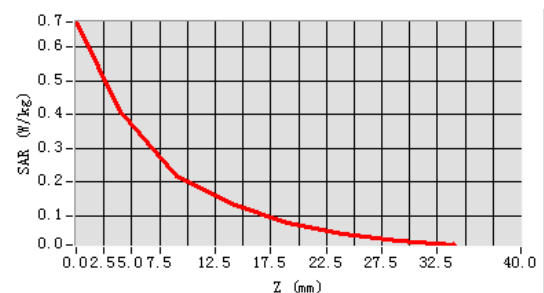
Plot 19: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	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	GSM1900
Channels	Low
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	1850.2
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	-1.90

Maximum location: X=-8.00, Y=-55.00

SAR Peak: 0.67 W/kg

SAR 10g (W/Kg)	0.210307
SAR 1g (W/Kg)	0.393248

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

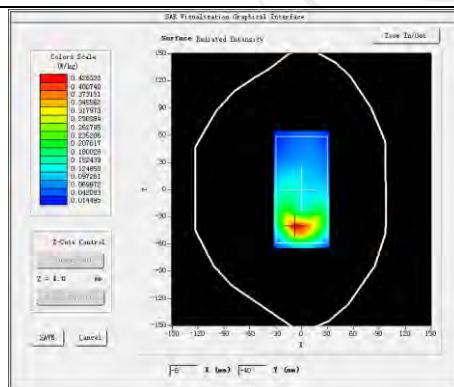
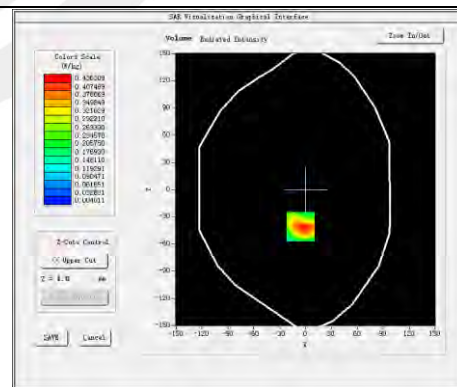
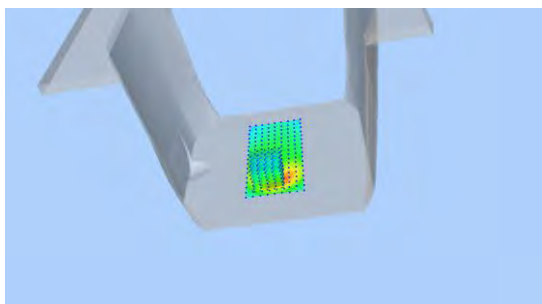
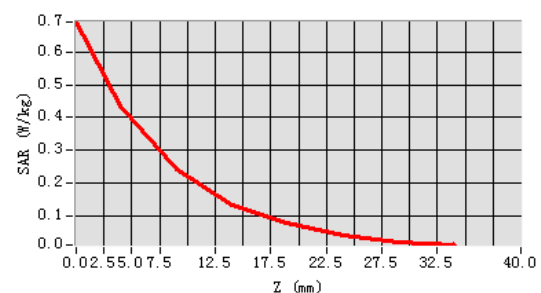
Plot 20: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	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 Behind
Band	GPRS 1900
Channels	Low
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	1850.2
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	0.04

Maximum location: X=-6.00, Y=-41.00

SAR Peak: 0.71 W/kg

SAR 10g (W/Kg)	0.222148
SAR 1g (W/Kg)	0.426222

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

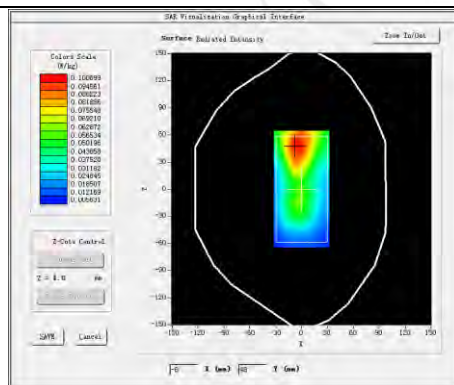
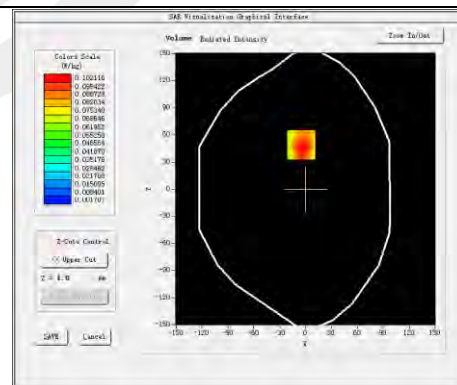
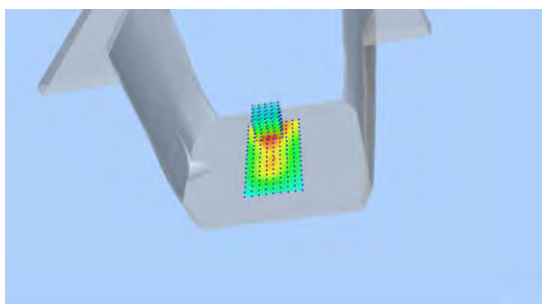
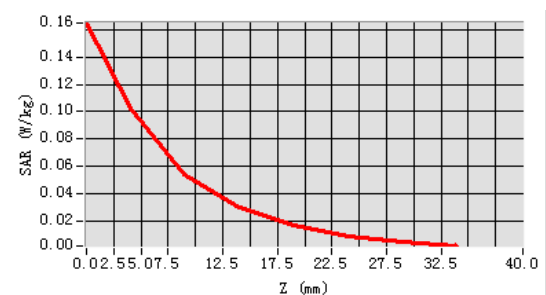
Plot 21: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	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 light side
Band	GSM1900
Channels	Low
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	1850.2
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	-0.84

Maximum location: X=-5.00, Y=49.00

SAR Peak: 0.17 W/kg

SAR 10g (W/Kg)	0.055927
SAR 1g (W/Kg)	0.100410

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

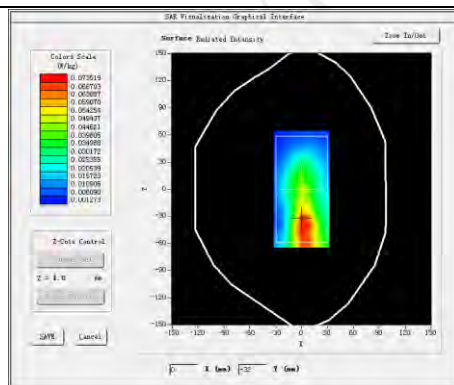
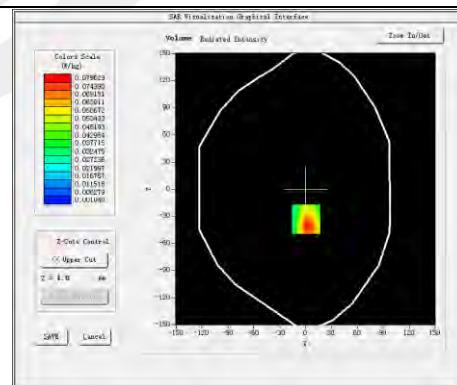
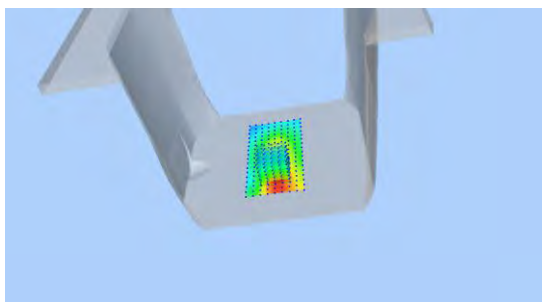
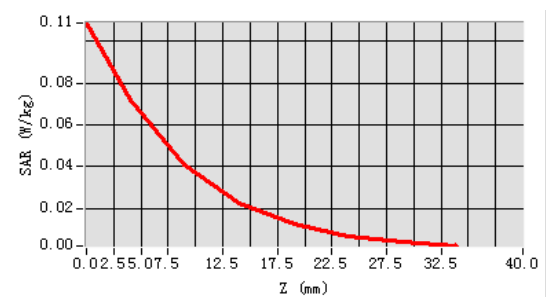
Plot 22: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	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	GSM1900
Channels	Low
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	1850.2
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	-2.47

Maximum location: X=1.00, Y=-33.00

SAR Peak: 0.13 W/kg

SAR 10g (W/Kg)	0.040269
SAR 1g (W/Kg)	0.076135

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

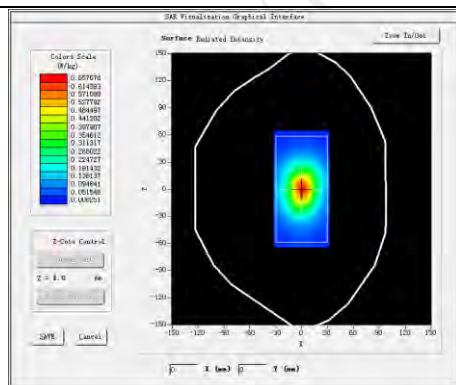
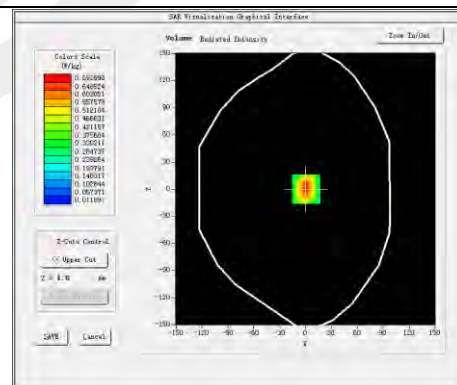
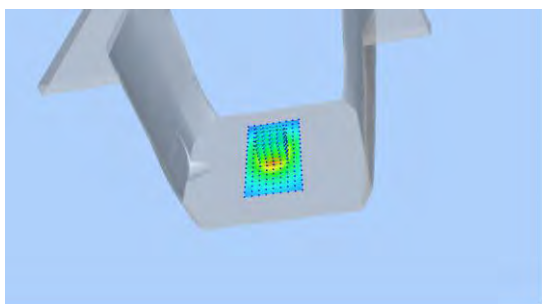
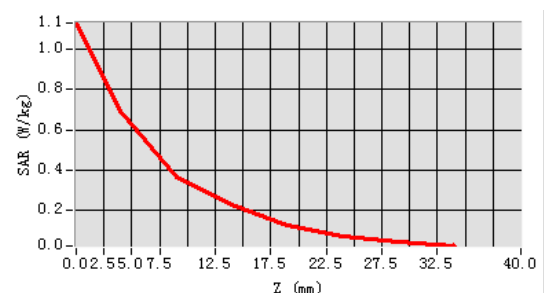
Plot 23: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	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	GSM1900
Channels	Low
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	1850.2
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	-2.31

Maximum location: X=1.00, Y=0.00

SAR Peak: 1.1 W/kg

SAR 10g (W/Kg)	0.336527
SAR 1g (W/Kg)	0.663947

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

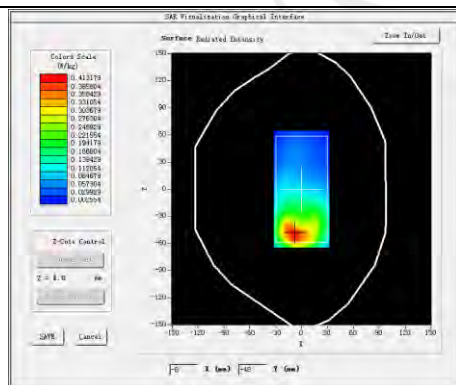
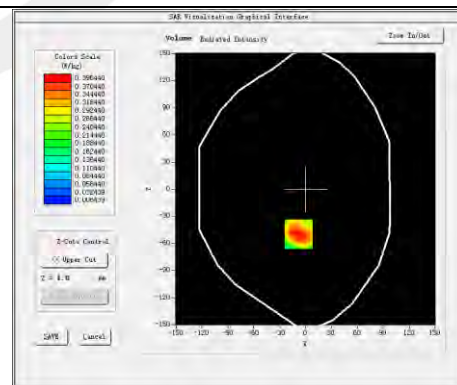
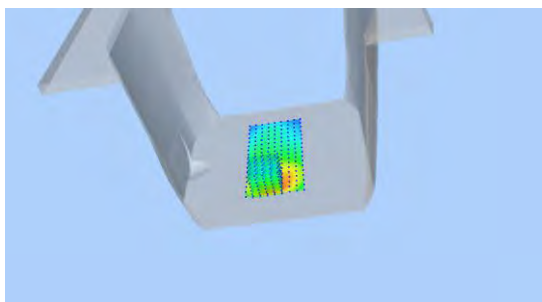
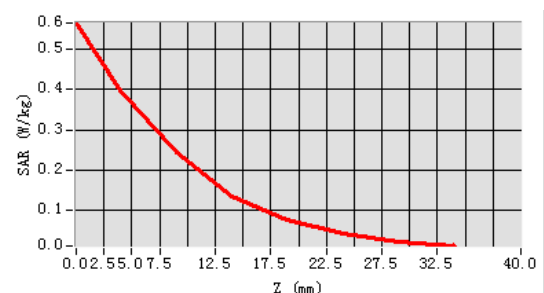
Plot 24: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	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	Low
Signal	TDMA (Crest factor: 2.66)
Frequency (MHz)	1850.2
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	0.16

Maximum location: X=-8.00, Y=-50.00

SAR Peak: 0.61 W/kg

SAR 10g (W/Kg)	0.212910
SAR 1g (W/Kg)	0.382088

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

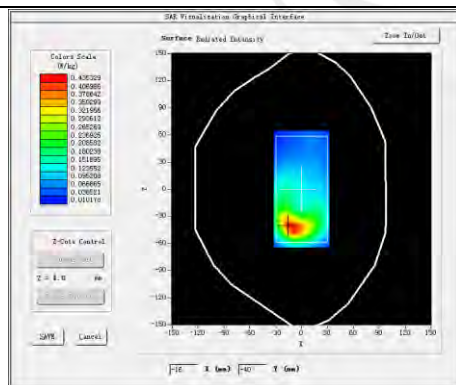
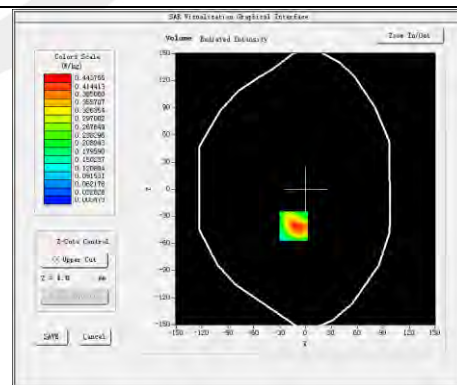
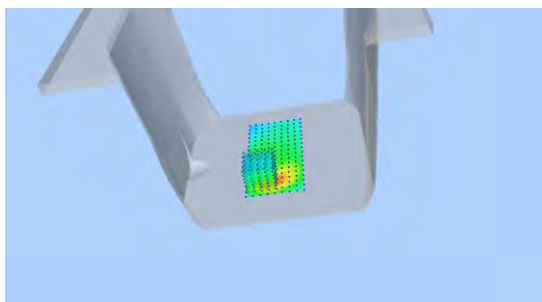
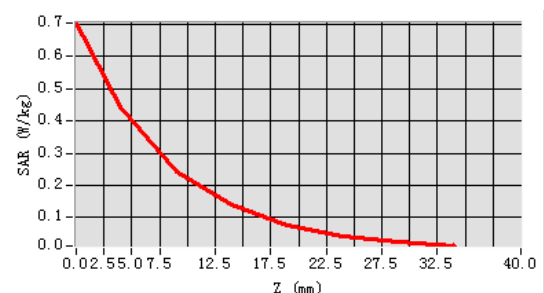
Plot 25: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	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 Behind
Band	GPRS 1900
Channels	Low
Signal	TDMA (Crest factor: 2.66)
Frequency (MHz)	1850.2
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	0.06

Maximum location: X=-14.00, Y=-41.00

SAR Peak: 0.70 W/kg

SAR 10g (W/Kg)	0.223139
SAR 1g (W/Kg)	0.425576

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

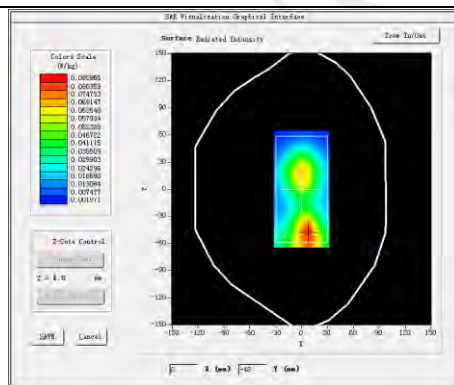
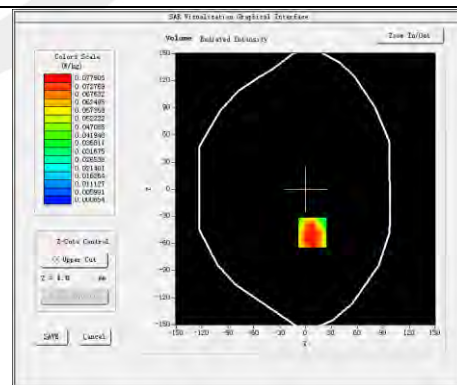
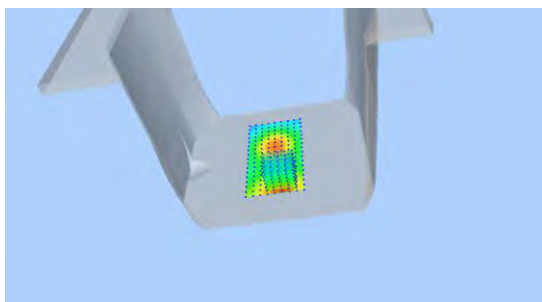
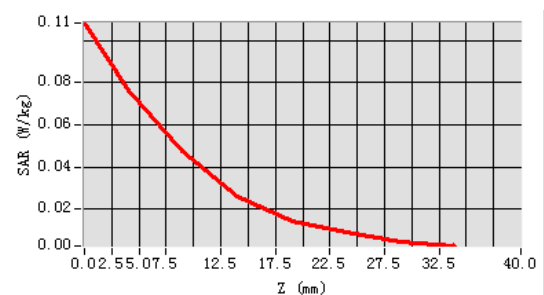
Plot 26: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
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 light side
Band	GPRS 1900
Channels	Low
Signal	TDMA (Crest factor: 2.66)
Frequency (MHz)	1850.2
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	-0.44

Maximum location: X=8.00, Y=-48.00

SAR Peak: 0.12 W/kg

SAR 10g (W/Kg)	0.041789
SAR 1g (W/Kg)	0.074629

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

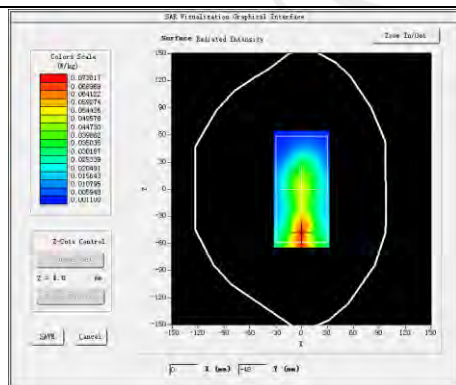
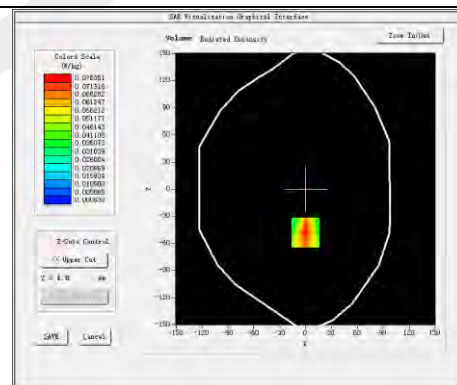
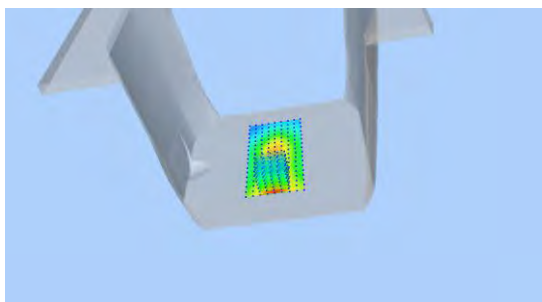
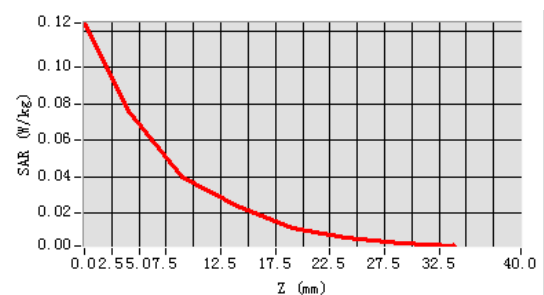
Plot 27: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
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	Low
Signal	TDMA (Crest factor: 2.66)
Frequency (MHz)	1850.2
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	3.00

Maximum location: X=0.00, Y=-48.00

SAR Peak: 0.13 W/kg

SAR 10g (W/Kg)	0.037314
SAR 1g (W/Kg)	0.072953

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

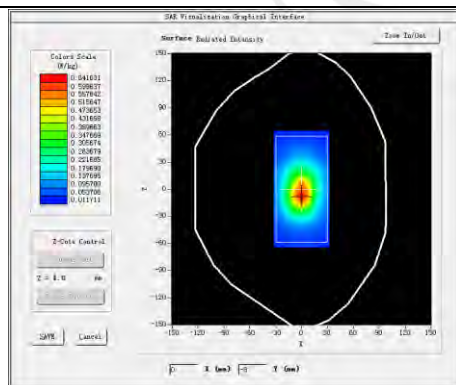
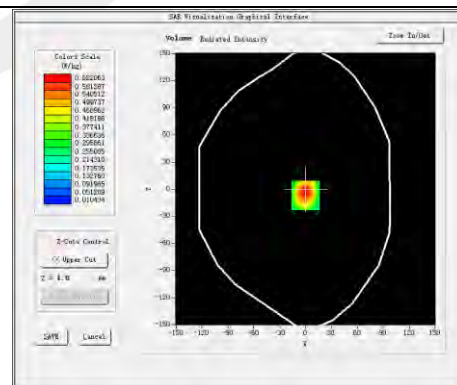
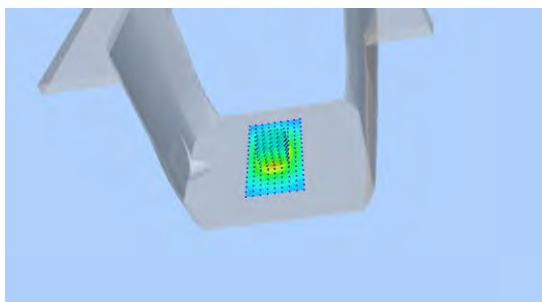
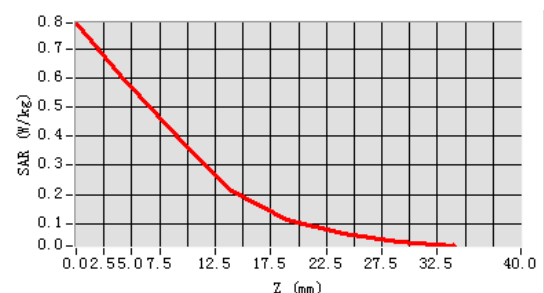
Plot 28: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
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	Low
Signal	TDMA (Crest factor: 2.66)
Frequency (MHz)	1850.2
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	3.56

Maximum location: X=0.00, Y=-7.00

SAR Peak: 0.95 W/kg

SAR 10g (W/Kg)	0.317544
SAR 1g (W/Kg)	0.586550

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

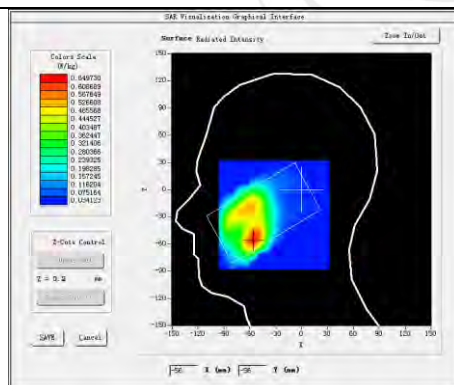
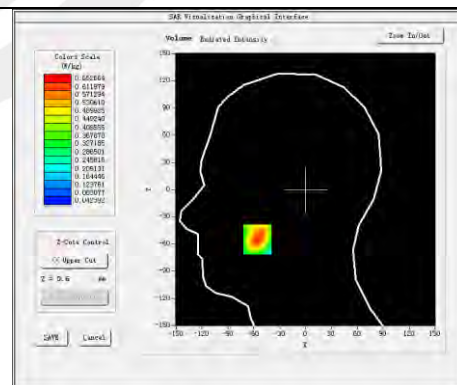
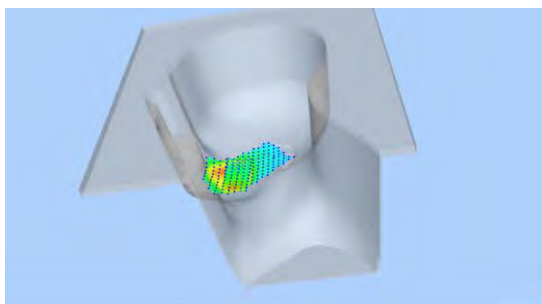
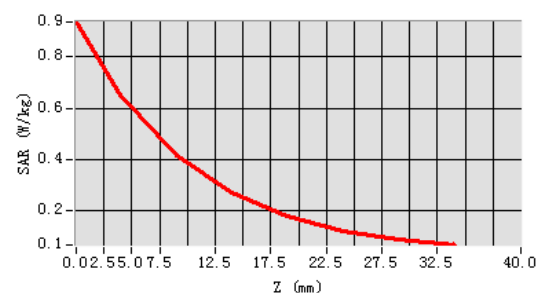
Plot 29: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	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	TDMA (Crest factor: 1.0)
Frequency (MHz)	1907.6
Relative permittivity (real part)	40.00
Conductivity (S/m)	1.40
Variation (%)	-0.56

Maximum location: X=-56.00, Y=-55.00

SAR Peak: 0.93 W/kg

SAR 10g (W/Kg)	0.365971
SAR 1g (W/Kg)	0.623720

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

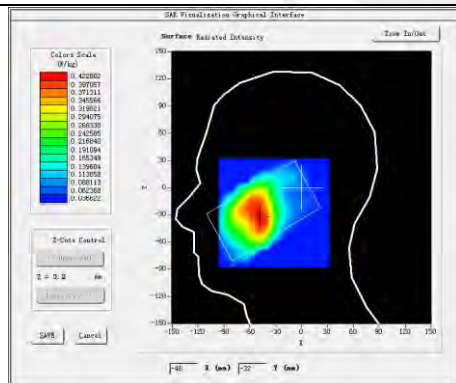
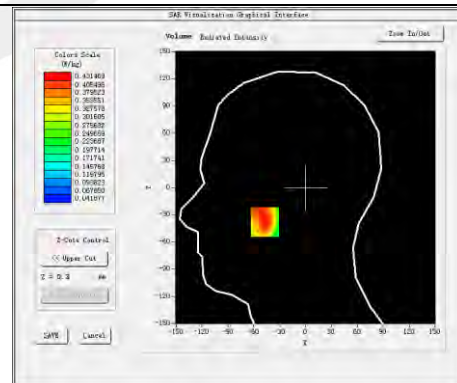
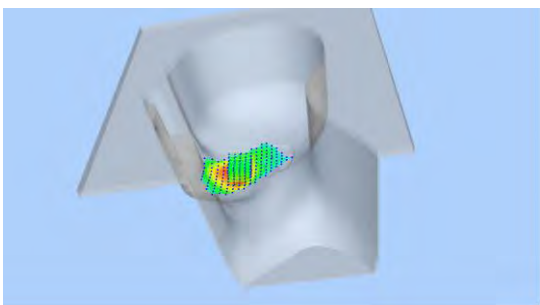
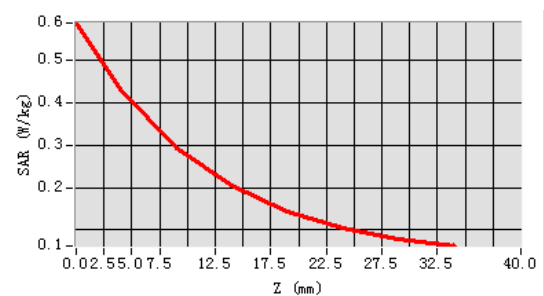
Plot 30: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
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	TDMA (Crest factor: 1.0)
Frequency (MHz)	1907.6
Relative permittivity (real part)	40.00
Conductivity (S/m)	1.40
Variation (%)	3.98

Maximum location: X=-47.00, Y=-38.00

SAR Peak: 0.59 W/kg

SAR 10g (W/Kg)	0.269251
SAR 1g (W/Kg)	0.417646

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

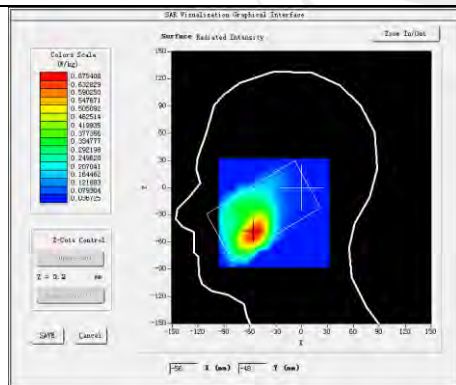
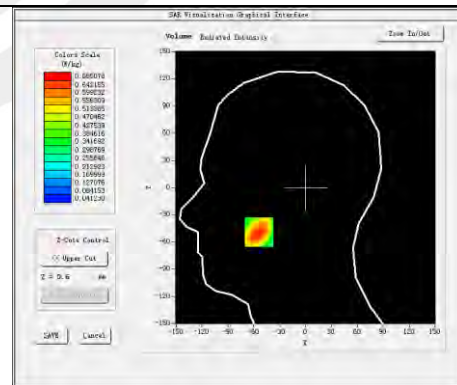
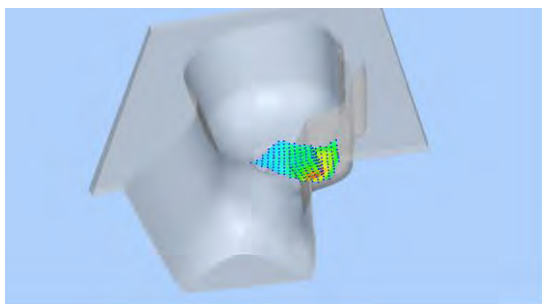
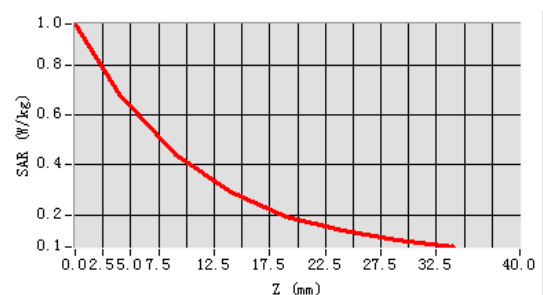
Plot 31: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
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	TDMA (Crest factor: 1.0)
Frequency (MHz)	1907.6
Relative permittivity (real part)	40.00
Conductivity (S/m)	1.40
Variation (%)	-0.33

Maximum location: X=-54.00, Y=-49.00

SAR Peak: 0.99 W/kg

SAR 10g (W/Kg)	0.392177
SAR 1g (W/Kg)	0.662981

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

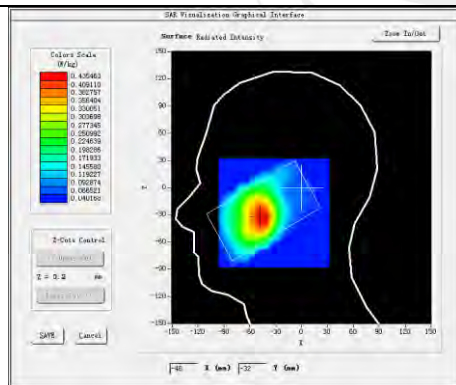
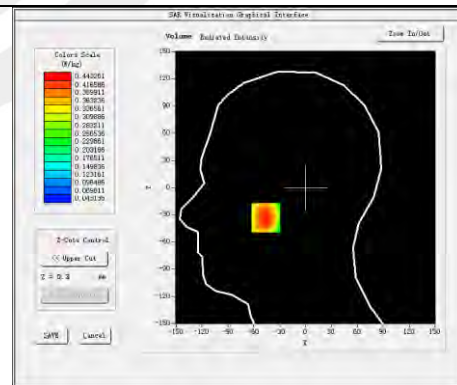
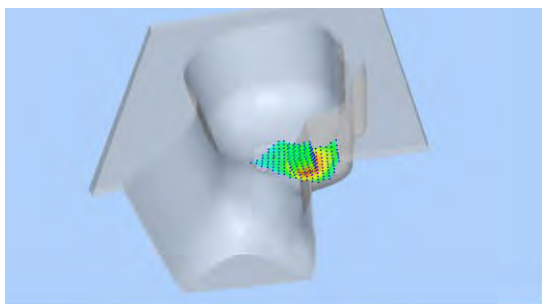
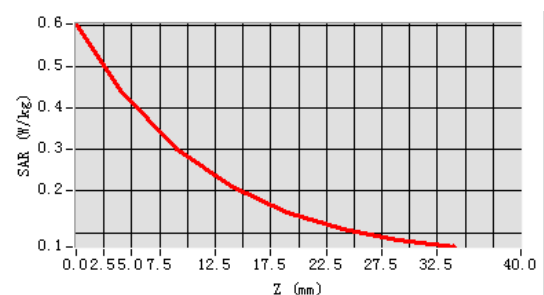
Plot 32: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
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	TDMA (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=-46.00, Y=-33.00

SAR Peak: 0.61 W/kg

SAR 10g (W/Kg)	0.272252
SAR 1g (W/Kg)	0.428982

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

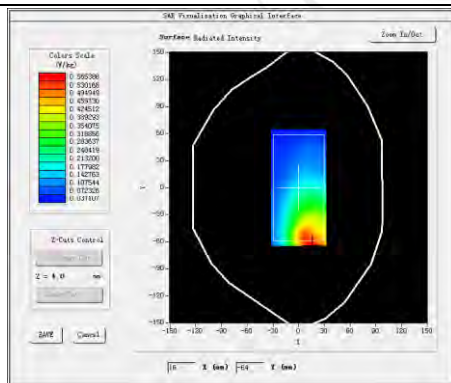
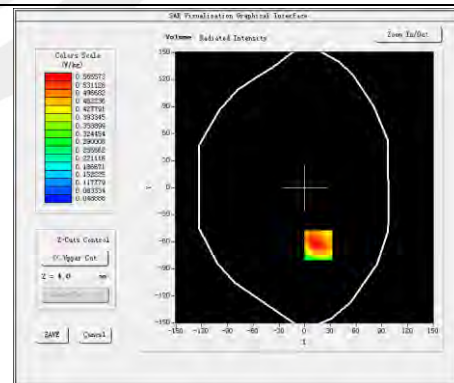
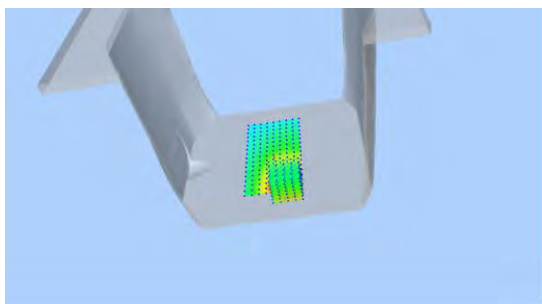
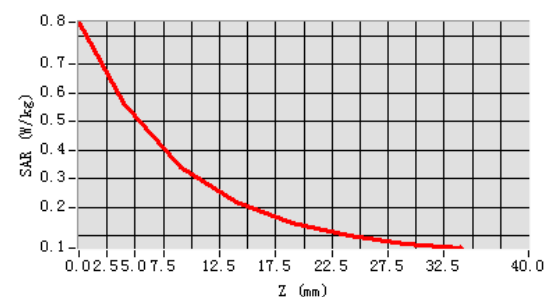
Plot 33: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	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	TDMA (Crest factor: 1.0)
Frequency (MHz)	1907.6
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	-0.51

Maximum location: X=16.00, Y=-64.00

SAR Peak: 0.85 W/kg

SAR 10g (W/Kg)	0.330308
SAR 1g (W/Kg)	0.555399

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

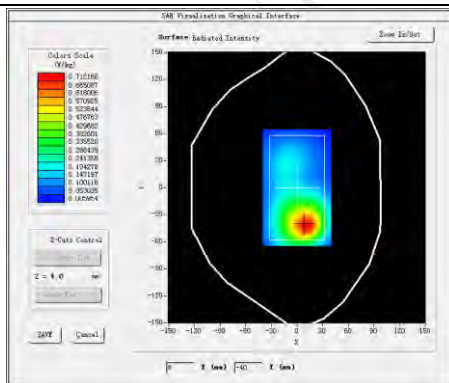
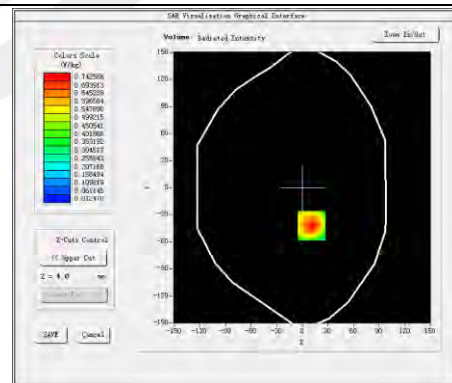
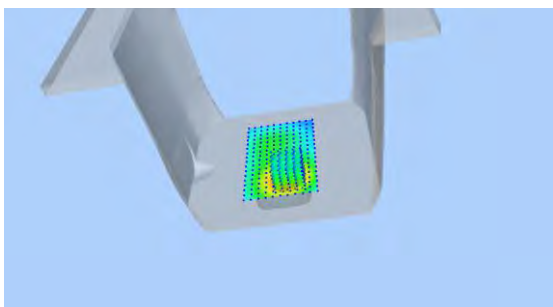
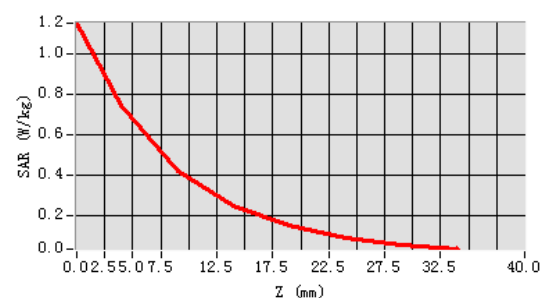
Plot 34: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	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 Behind
Band	WCDMA II
Channels	High
Signal	TDMA (Crest factor: 1.0)
Frequency (MHz)	1907.6
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	-0.77

Maximum location: X=7.00, Y=-64.00

SAR Peak: 1.15 W/kg

SAR 10g (W/Kg)	0.393047
SAR 1g (W/Kg)	0.718261

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

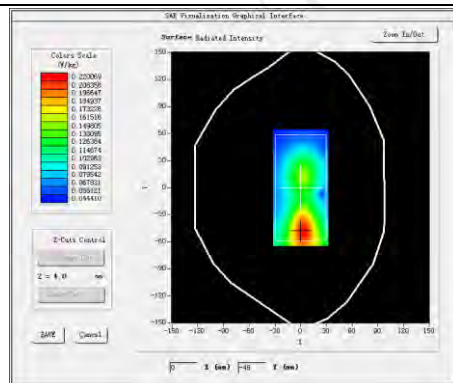
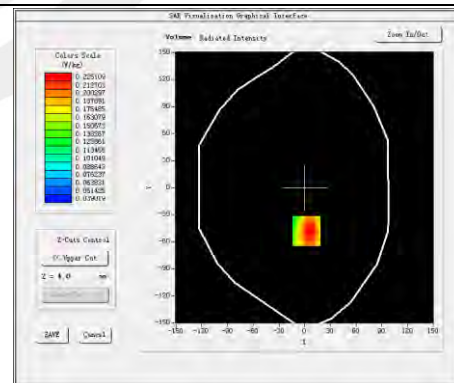
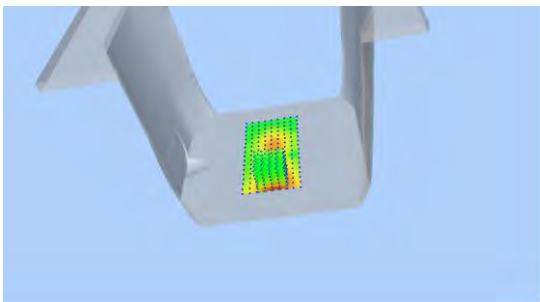
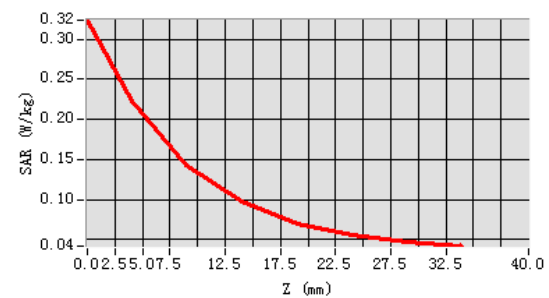
Plot 35: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
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 light side
Band	WCDMA II
Channels	High
Signal	TDMA (Crest factor: 1.0)
Frequency (MHz)	1907.6
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	0.17

Maximum location: X=2.00, Y=-48.00

SAR Peak: 0.34 W/kg

SAR 10g (W/Kg)	0.140063
SAR 1g (W/Kg)	0.224561

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

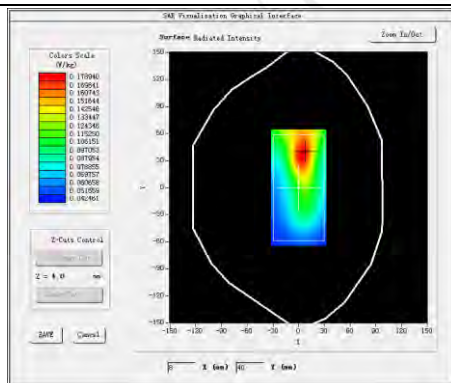
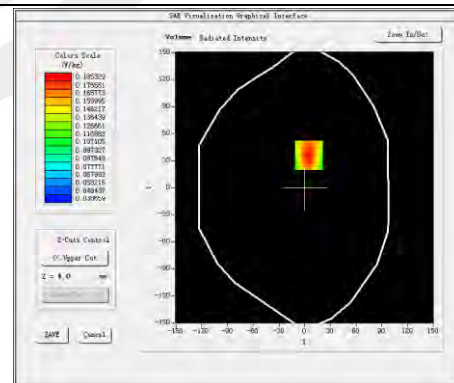
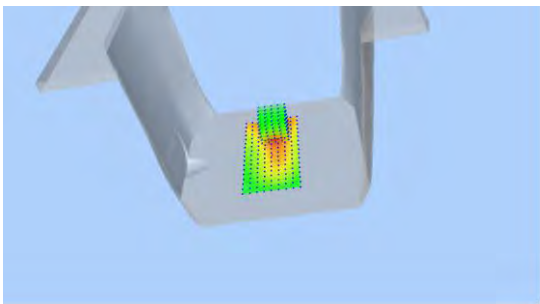
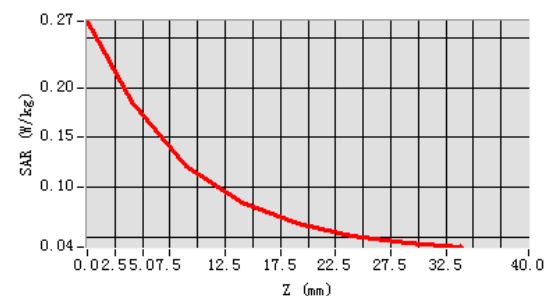
Plot 36: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	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 Behind
Band	WCDMA II
Channels	High
Signal	TDMA (Crest factor: 1.0)
Frequency (MHz)	1907.6
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	-0.49

Maximum location: X=5.00, Y=36.00

SAR Peak: 0.27 W/kg

SAR 10g (W/Kg)	0.116946
SAR 1g (W/Kg)	0.181269

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

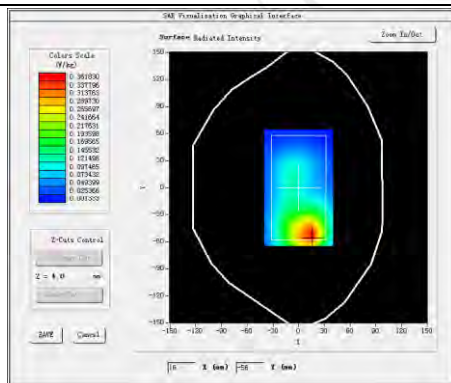
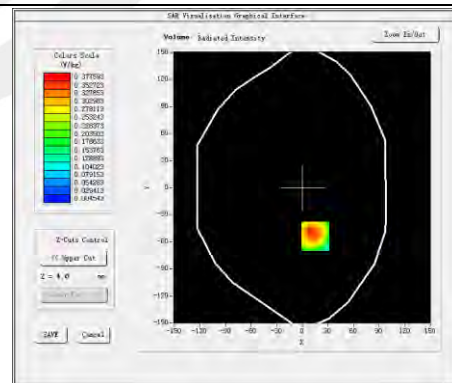
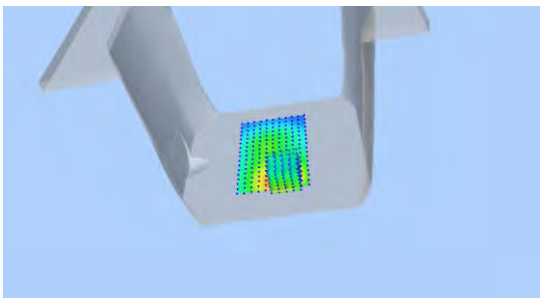
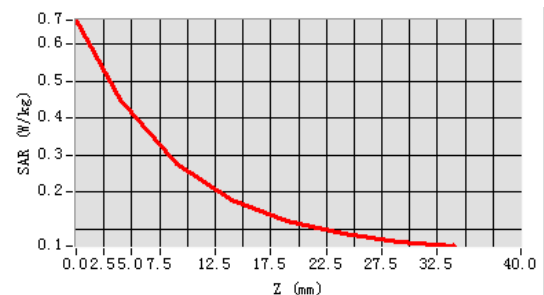
Plot 37: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	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	TDMA (Crest factor: 1.0)
Frequency (MHz)	1907.6
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	0.02

Maximum location: X=15.00, Y=-54.00

SAR Peak: 0.66 W/kg

SAR 10g (W/Kg)	0.394063
SAR 1g (W/Kg)	0.576226

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

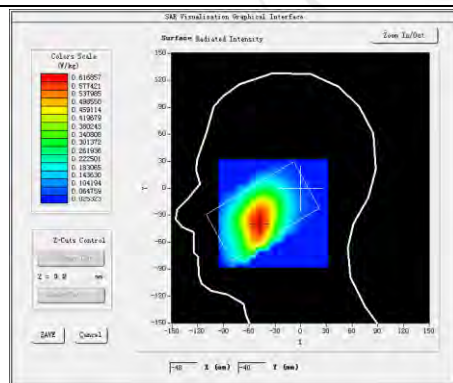
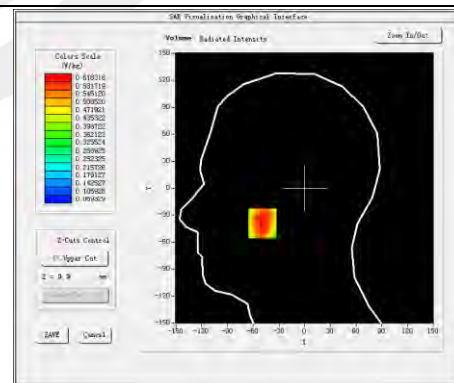
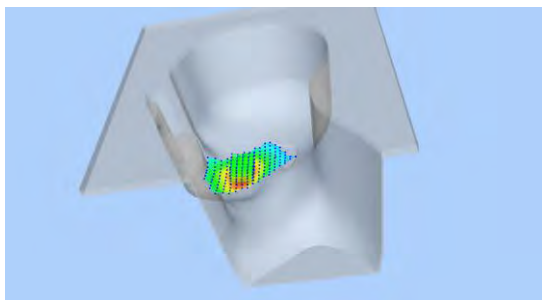
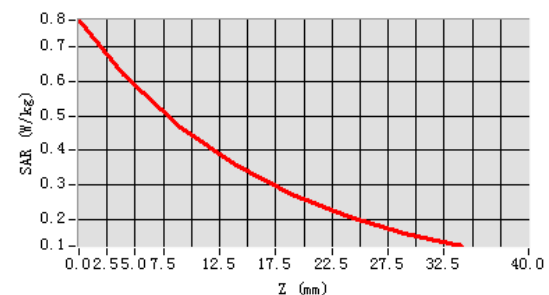
Plot 38: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
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	Low
Signal	TDMA (Crest factor: 1.0)
Frequency (MHz)	826.4
Relative permittivity (real part)	43.39
Conductivity (S/m)	0.92
Variation (%)	1.11

Maximum location: X=-49.00, Y=-39.00

SAR Peak: 0.80W/kg

SAR 10g (W/Kg)	0.435831
SAR 1g (W/Kg)	0.604598

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

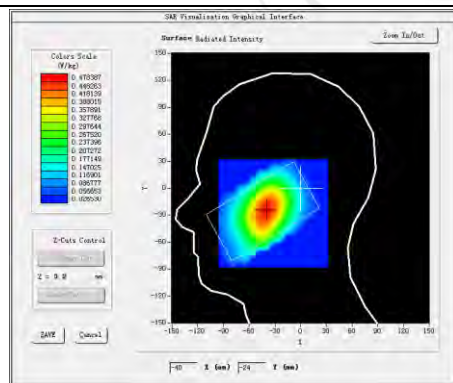
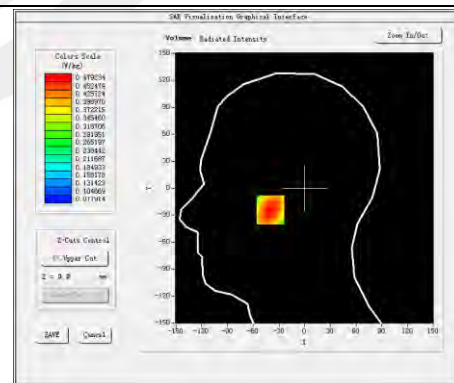
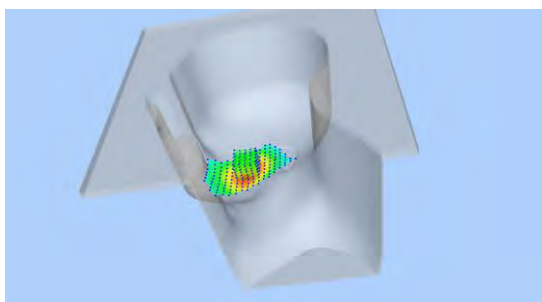
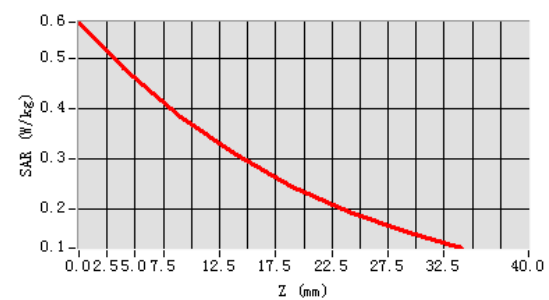
Plot 39: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
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	Low
Signal	TDMA (Crest factor: 1.0)
Frequency (MHz)	826.4
Relative permittivity (real part)	43.39
Conductivity (S/m)	0.92
Variation (%)	0.78

Maximum location: X=-40.00, Y=-24.00

SAR Peak: 0.57 W/kg

SAR 10g (W/Kg)	0.349009
SAR 1g (W/Kg)	0.466159

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

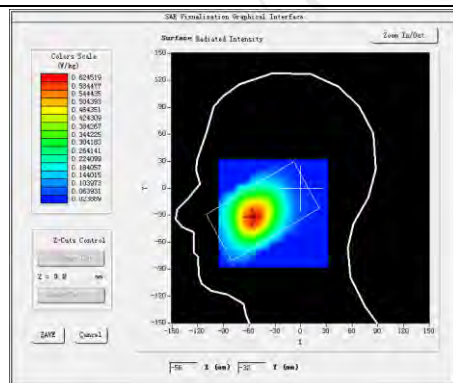
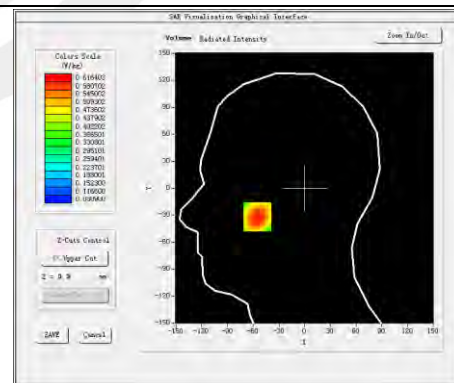
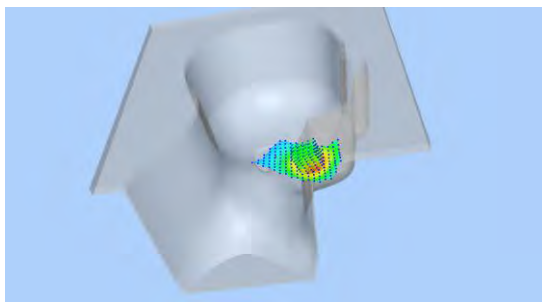
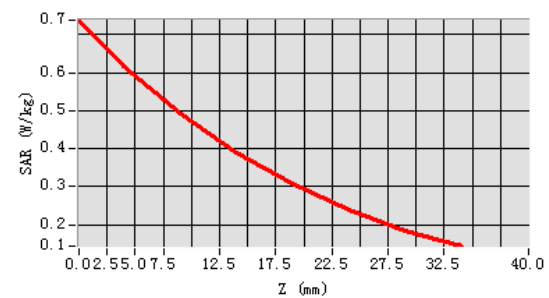
Plot 40: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	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	Low
Signal	TDMA (Crest factor: 1.0)
Frequency (MHz)	826.4
Relative permittivity (real part)	43.39
Conductivity (S/m)	0.92
Variation (%)	0.05

Maximum location: X=-55.00, Y=-32.00

SAR Peak: 0.74 W/kg

SAR 10g (W/Kg)	0.437108
SAR 1g (W/Kg)	0.599185

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

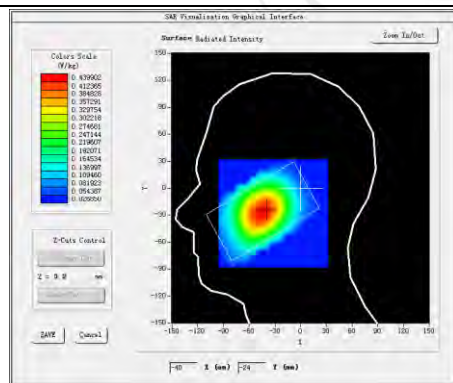
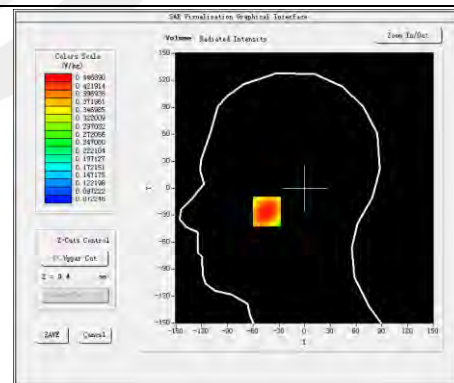
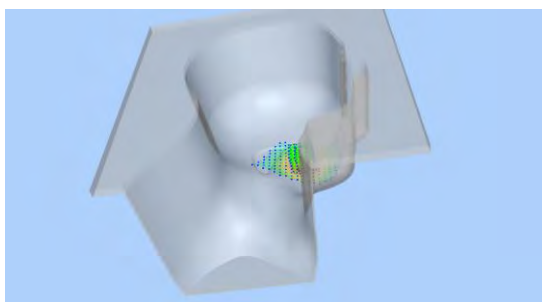
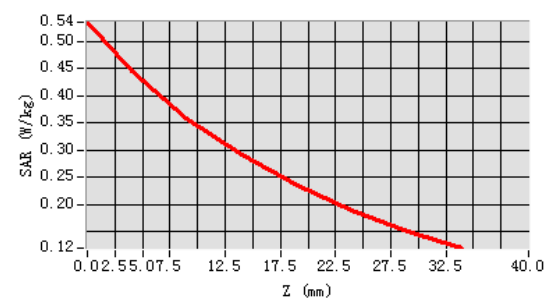
Plot 41: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
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	Low
Signal	TDMA (Crest factor: 1.0)
Frequency (MHz)	826.4
Relative permittivity (real part)	43.39
Conductivity (S/m)	0.92
Variation (%)	0.25

Maximum location: X=-44.00, Y=-26.00

SAR Peak: 0.54 W/kg

SAR 10g (W/Kg)	0.329343
SAR 1g (W/Kg)	0.438037

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

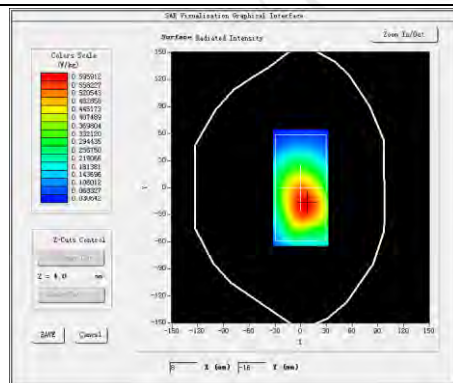
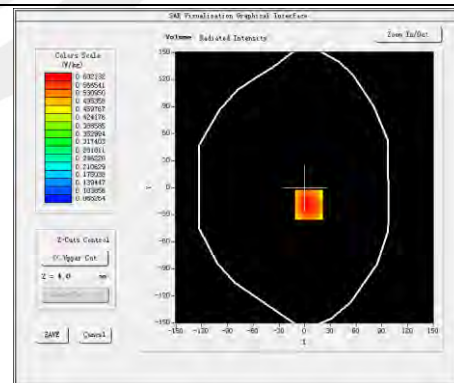
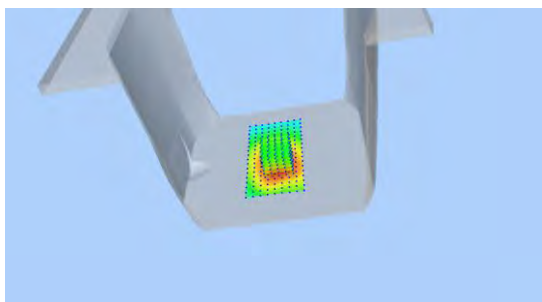
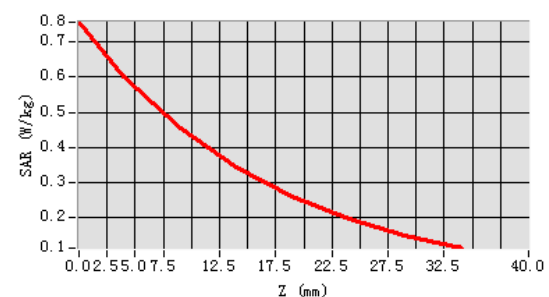
Plot 42: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	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	Low
Signal	TDMA (Crest factor: 1.0)
Frequency (MHz)	826.4
Relative permittivity (real part)	43.39
Conductivity (S/m)	0.92
Variation (%)	-1.27

Maximum location: X=5.00, Y=-19.00

SAR Peak: 0.76 W/kg

SAR 10g (W/Kg)	0.423174
SAR 1g (W/Kg)	0.587371

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

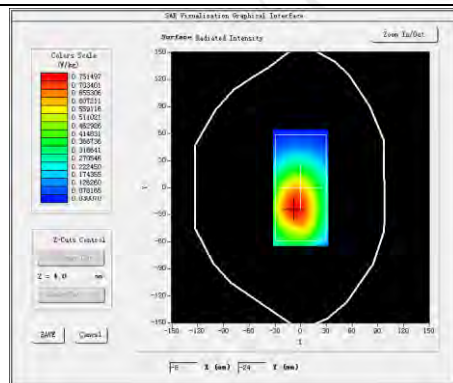
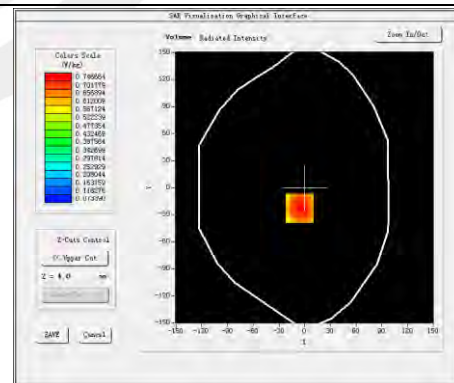
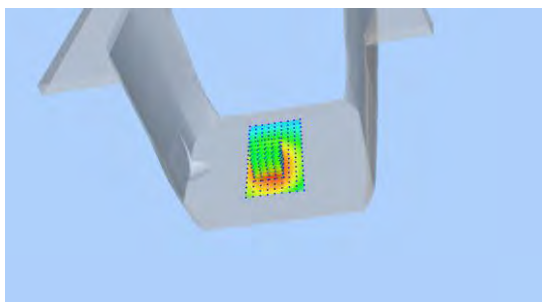
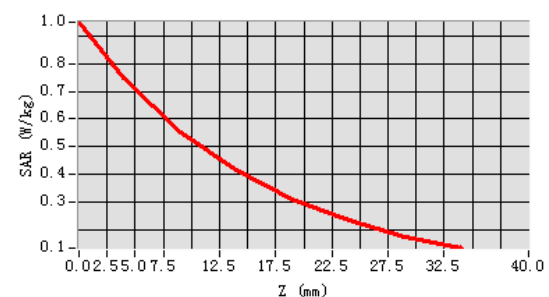
Plot 43: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	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 behind
Band	WCDMA V
Channels	Low
Signal	TDMA (Crest factor: 1.0)
Frequency (MHz)	826.4
Relative permittivity (real part)	43.39
Conductivity (S/m)	0.92
Variation (%)	-1.40

Maximum location: X=-6.00, Y=-23.00

SAR Peak: 0.95 W/kg

SAR 10g (W/Kg)	0.520796
SAR 1g (W/Kg)	0.727755

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

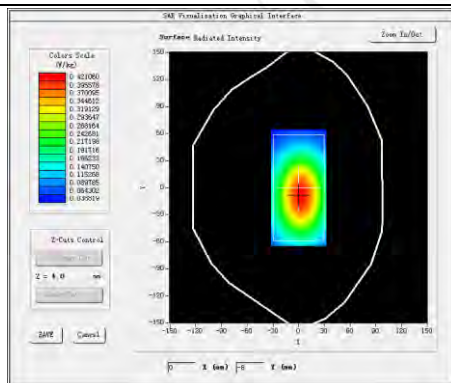
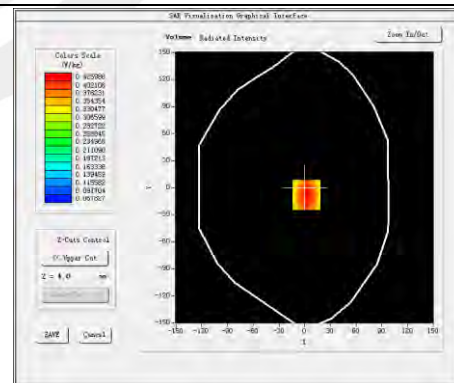
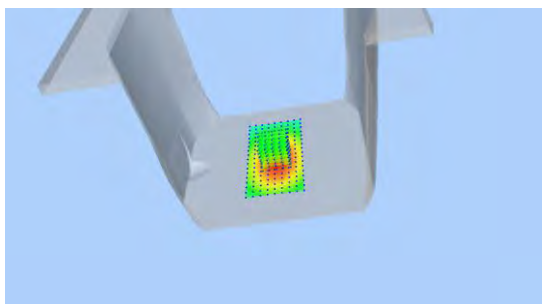
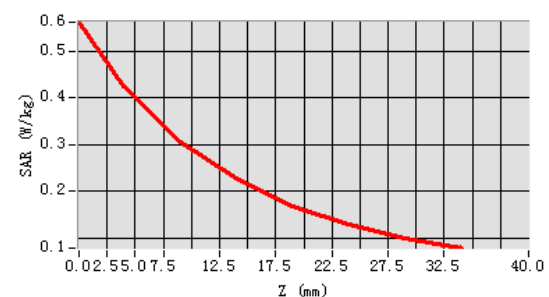
Plot 44: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	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 light side
Band	WCDMA V
Channels	Low
Signal	TDMA (Crest factor: 1.0)
Frequency (MHz)	826.4
Relative permittivity (real part)	43.39
Conductivity (S/m)	0.92
Variation (%)	-0.28

Maximum location: X=2.00, Y=-8.00

SAR Peak: 0.56 W/kg

SAR 10g (W/Kg)	0.289314
SAR 1g (W/Kg)	0.414788

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

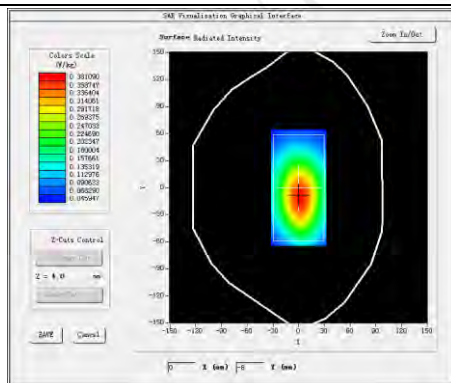
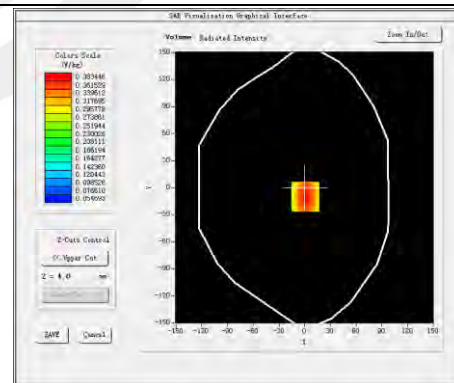
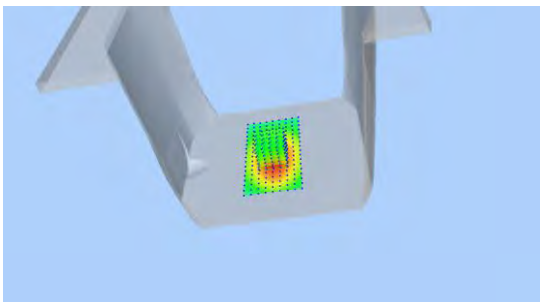
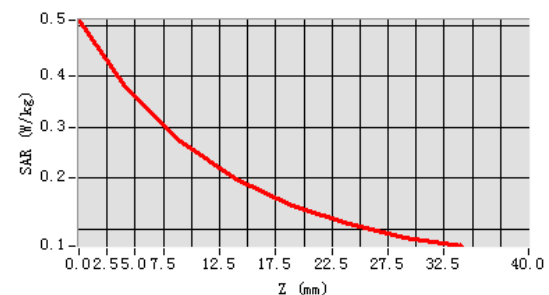
Plot 45: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	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	Low
Signal	TDMA (Crest factor: 1.0)
Frequency (MHz)	826.4
Relative permittivity (real part)	43.39
Conductivity (S/m)	0.92
Variation (%)	-0.12

Maximum location: X=1.00, Y=-10.00

SAR Peak: 0.51 W/kg

SAR 10g (W/Kg)	0.256056
SAR 1g (W/Kg)	0.372694

SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

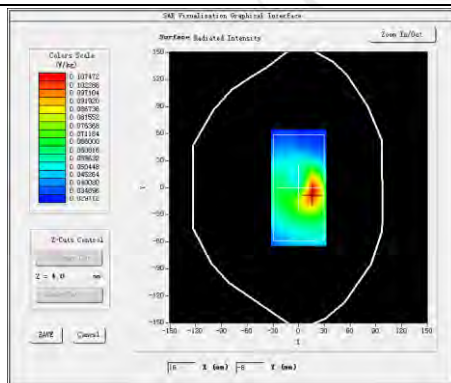
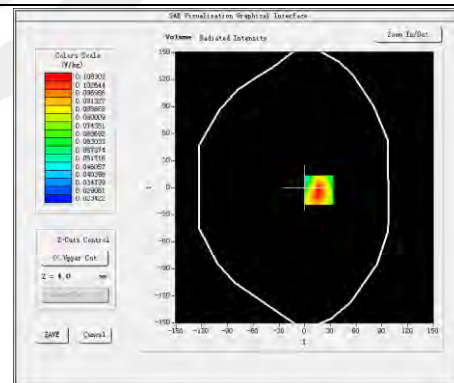
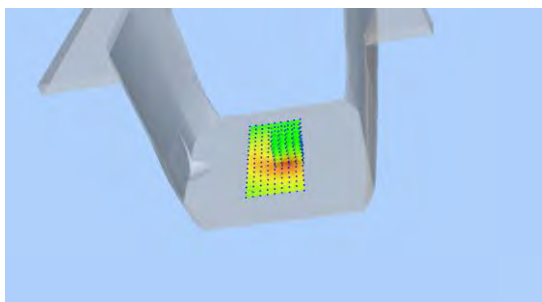
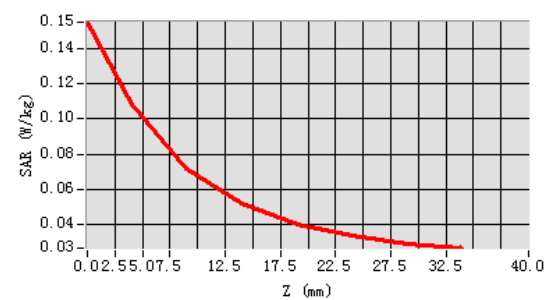
Plot 46: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	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	Low
Signal	TDMA (Crest factor: 1.0)
Frequency (MHz)	826.4
Relative permittivity (real part)	43.39
Conductivity (S/m)	0.92
Variation (%)	-0.07

Maximum location: X=17.00, Y=-3.00

SAR Peak: 0.15 W/kg

SAR 10g (W/Kg)	0.069286
SAR 1g (W/Kg)	0.104230

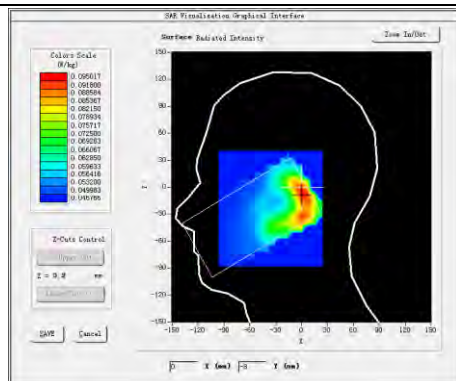
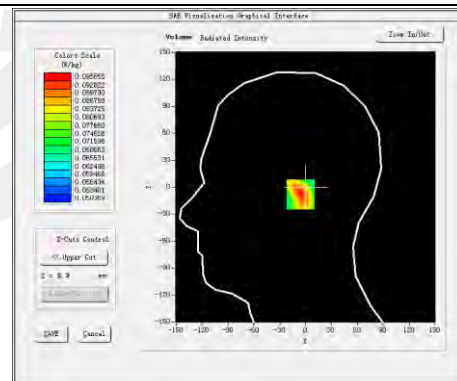
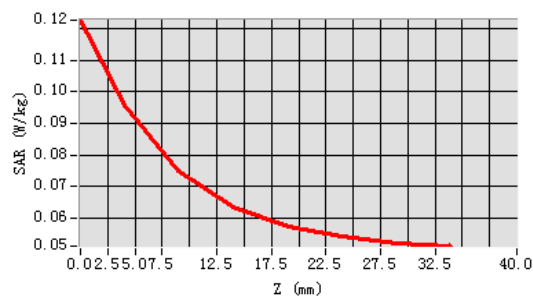
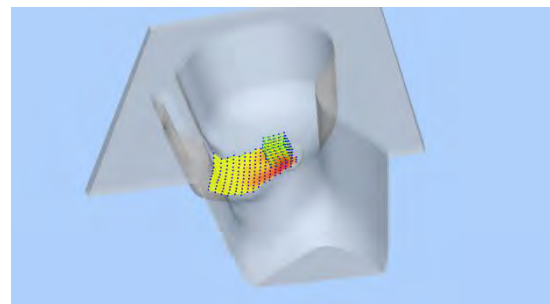
SURFACE SAR**VOLUME SAR****3D screen shot****Z Axis Scan**

Plot 47: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
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	<u>IEEE802.b (Crest factor: 1.0)</u>
Frequency (MHz)	2437
Relative permittivity (real part)	39.22
Conductivity (S/m)	1.78
Variation (%)	3.25

Maximum location: X=2.00, Y=-8.00
SAR Peak: 0.13W/kg

SAR 10g (W/Kg)	0.079212
SAR 1g (W/Kg)	0.097334

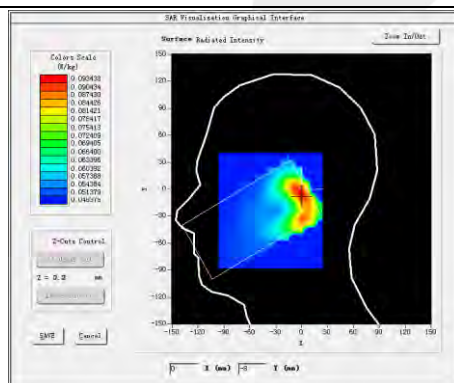
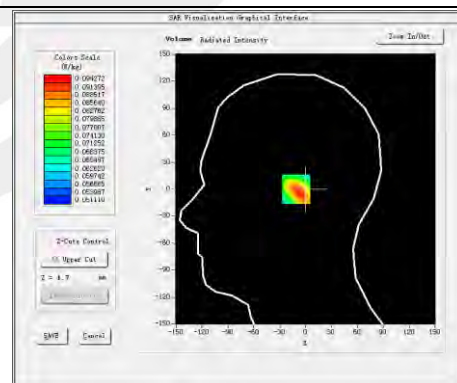
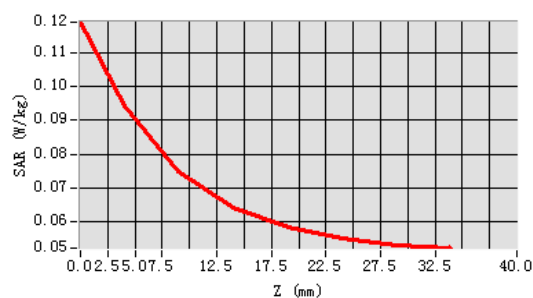
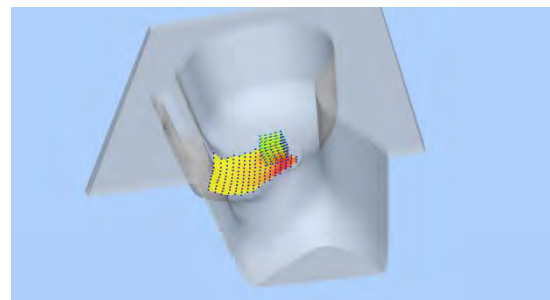
SURFACE SAR**VOLUME SAR****Z Axis Scan****3D**

Plot 48: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
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	<u>IEEE802.b (Crest factor: 1.0)</u>
Frequency (MHz)	2437
Relative permittivity (real part)	39.22
Conductivity (S/m)	1.78
Variation (%)	0.24

Maximum location: X=-5.00, Y=0.00
SAR Peak: 0.12W/kg

SAR 10g (W/Kg)	0.067215
SAR 1g (W/Kg)	0.082159

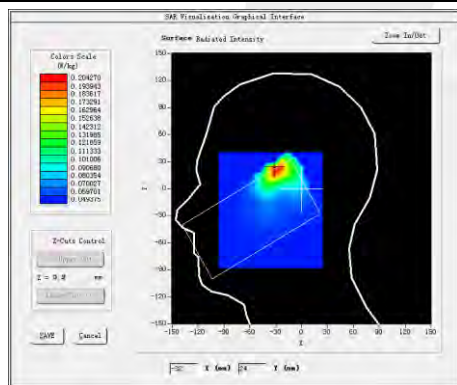
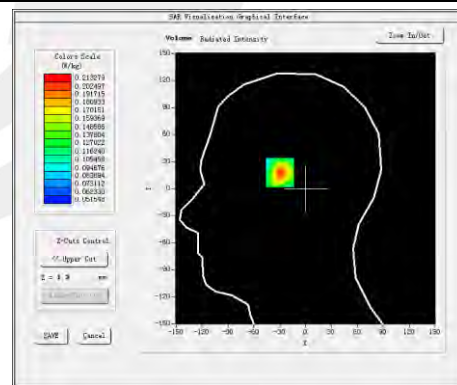
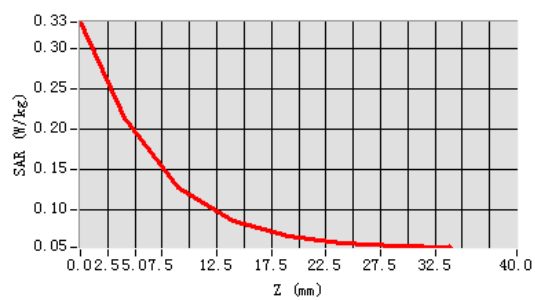
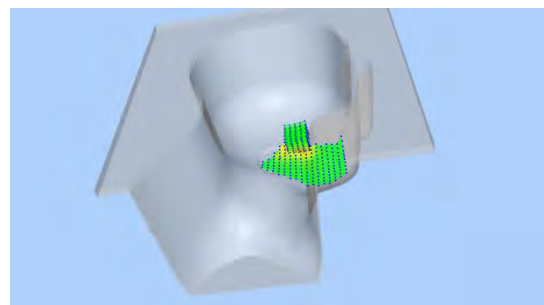
SURFACE SAR**VOLUME SAR****Z Axis Scan****3D**

Plot 49: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
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	<u>IEEE802.b (Crest factor: 1.0)</u>
Frequency (MHz)	2437
Relative permittivity (real part)	39.22
Conductivity (S/m)	1.78
Variation (%)	1.20

Maximum location: X=-30.00, Y=23.00
SAR Peak: 0.33W/kg

SAR 10g (W/Kg)	0.121469
SAR 1g (W/Kg)	0.214921

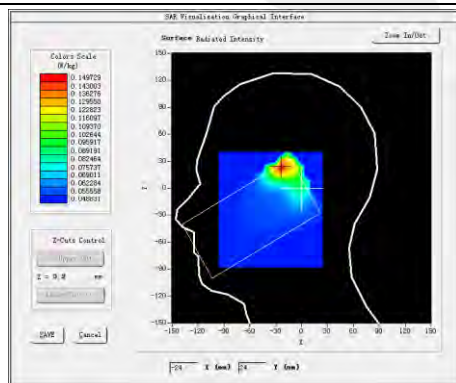
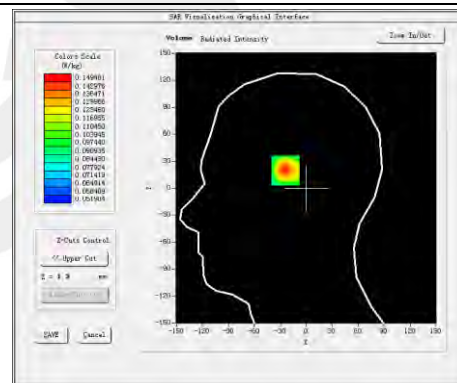
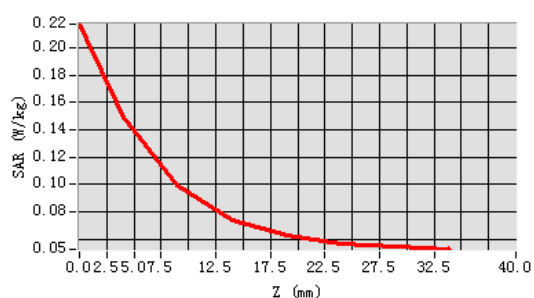
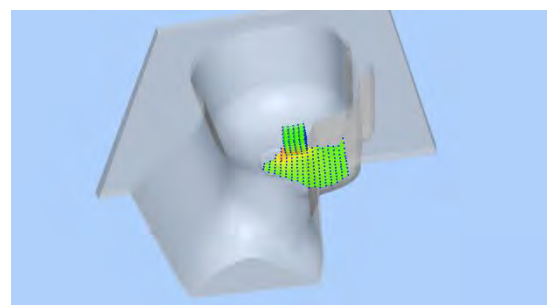
SURFACE SAR**VOLUME SAR****Z Axis Scan****3D**

Plot 50: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
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	<u>IEEE802.b (Crest factor: 1.0)</u>
Frequency (MHz)	2437
Relative permittivity (real part)	39.22
Conductivity (S/m)	1.78
Variation (%)	2.03

Maximum location: X=-24.00, Y=24.00
SAR Peak: 0.23 W/kg

SAR 10g (W/Kg)	0.081245
SAR 1g (W/Kg)	0.152137

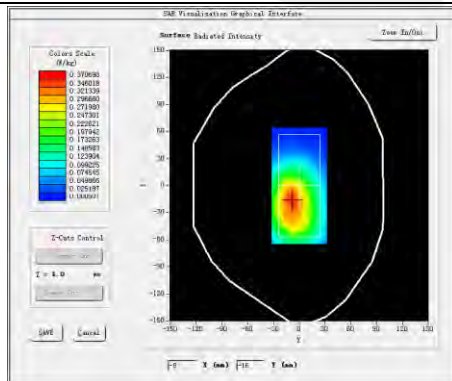
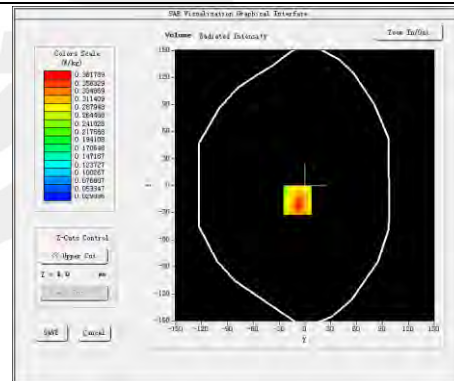
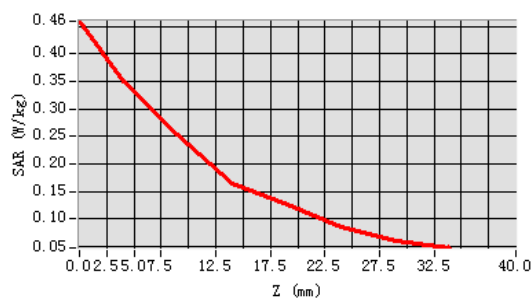
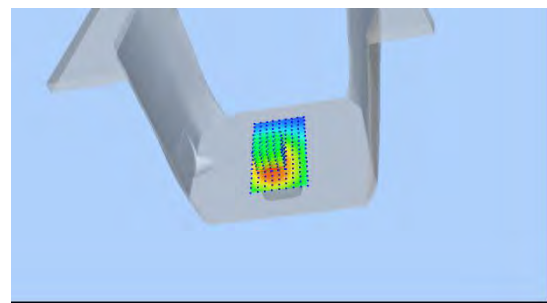
SURFACE SAR**VOLUME SAR****Z Axis Scan****3D**

Plot 51: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
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 side
Band	IEEE 802.11b ISM
Channels	Middle
Signal	<u>IEEE802.b (Crest factor: 1.0)</u>
Frequency (MHz)	2437
Relative permittivity (real part)	52.72
Conductivity (S/m)	1.95
Variation (%)	-3.15

Maximum location: X=-17.00, Y=18.00
SAR Peak: 0.46W/kg

SAR 10g (W/Kg)	0.124618
SAR 1g (W/Kg)	0.282164

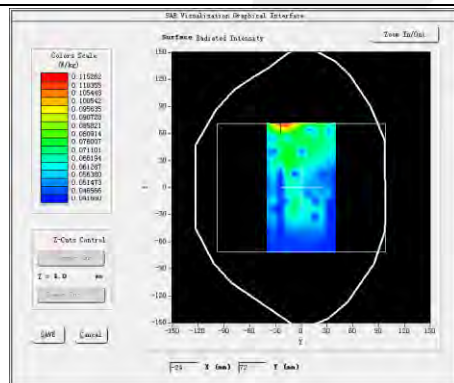
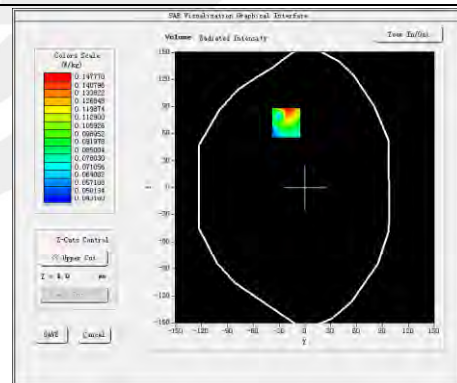
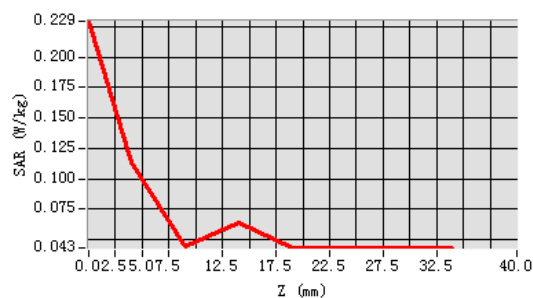
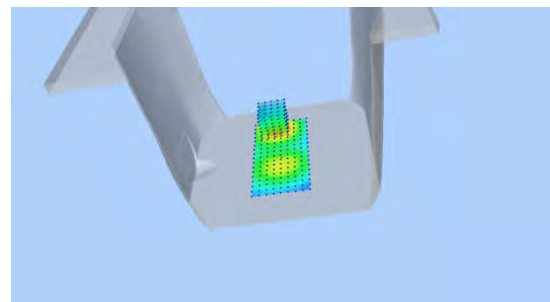
SURFACE SAR**VOLUME SAR****Z Axis Scan****3D**

Plot 52: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
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 side
Band	IEEE 802.11b ISM
Channels	Middle
Signal	<u>IEEE802.b (Crest factor: 1.0)</u>
Frequency (MHz)	2437
Relative permittivity (real part)	52.72
Conductivity (S/m)	1.95
Variation (%)	-1.04

Maximum location: X=-10.00, Y=22.00
SAR Peak: 0.23W/kg

SAR 10g (W/Kg)	0.092548
SAR 1g (W/Kg)	0.159348

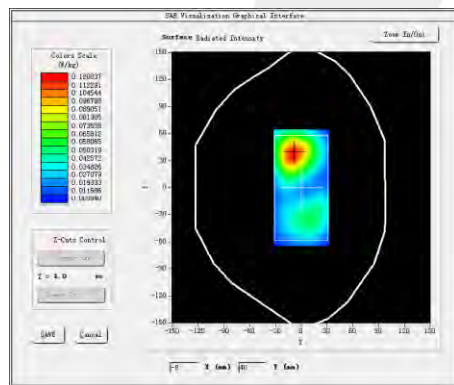
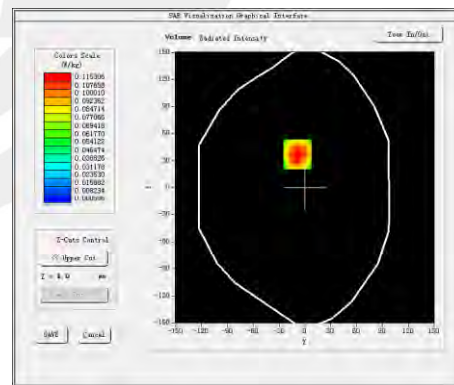
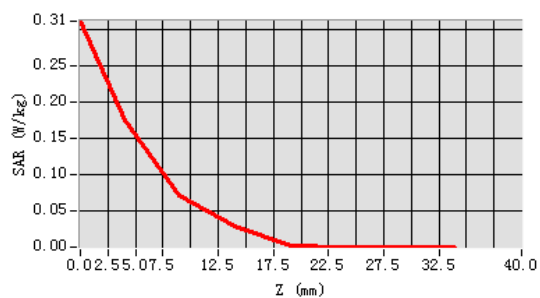
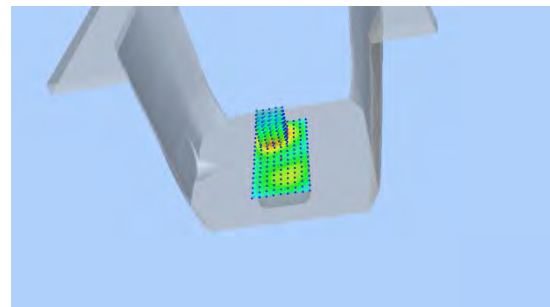
SURFACE SAR**VOLUME SAR****Z Axis Scan****3D**

Plot 53: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
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 right side
Band	IEEE 802.11b ISM
Channels	Middle
Signal	<u>IEEE802.b (Crest factor: 1.0)</u>
Frequency (MHz)	2437
Relative permittivity (real part)	52.72
Conductivity (S/m)	1.95
Variation (%)	-2.04

Maximum location: X=0.00, Y=-7.00
SAR Peak: 0.31W/kg

SAR 10g (W/Kg)	0.164333
SAR 1g (W/Kg)	0.215095

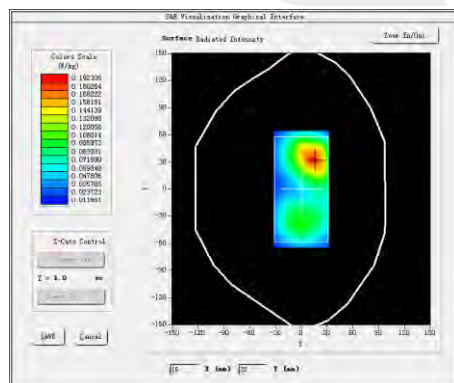
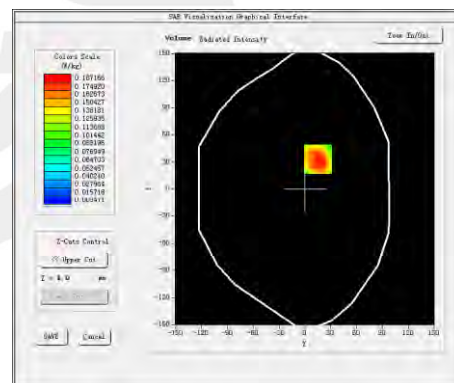
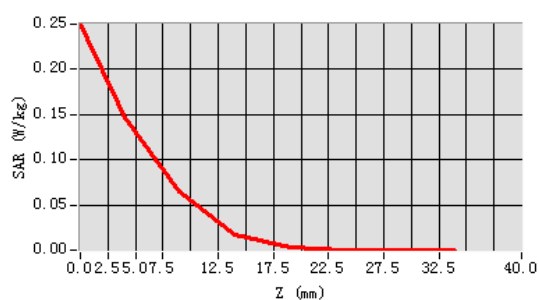
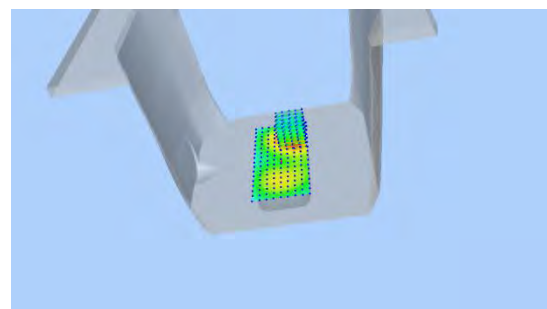
SURFACE SAR**VOLUME SAR****Z Axis Scan****3D**

Plot 54: DUT: 3G MOBILE PHONE; EUT Model: U511

Test Data	2014-11-24
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	<u>IEEE802.b (Crest factor: 1.0)</u>
Frequency (MHz)	2437
Relative permittivity (real part)	52.72
Conductivity (S/m)	1.95
Variation (%)	0.65

Maximum location: X=0.00, Y=0.00
SAR Peak: 0.26 W/kg

SAR 10g (W/Kg)	0.059199
SAR 1g (W/Kg)	0.137853

SURFACE SAR**VOLUME SAR****Z Axis Scan****3D**

Appendix C. Probe Calibration And Dipole Calibration Report

Refer the appendix Calibration Report.

