



FCC SAR TEST REPORT

Report No: STS1512003H01

Issued for

Shenzhen KVD Communications Equipment Limited

Room 13C,Block C,Electronics Science and Technology Building,Shennan Road Middle,Shenzhen City, Guangdong Province,China

Product Name:	GSM/WCDMA Smartphone
Brand Name:	DOOGEE
Model No.:	X6
Series Model:	X6 Pro,X6C,X6 Plus
FCC ID:	2AFPY-X6
	ANSI/IEEE Std. C95.1
Test Standard:	FCC 47 CFR Part 2 (2.1093)
	IEEE 1528: 2013
May CAR (4x)	Head:0.300 W/kg
Max. SAR (1g):	Body:0.862 W/kg

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Test Report Certification

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Product description

Product name GSM/WCDMA Smartphone

Trademark DOOGEE

Model and/or type reference .: X6

Series Model: X6 Pro,X6C,X6 Plus

Standards ANSI/IEEE Std. C95.1-1992

FCC 47 CFR Part 2 (2.1093)

IEEE 1528: 2013

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

Date of Test....:

Test Result..... Pass

Testing Engineer: Allen Chen

(Allen Chen)

Technical Manager:

Authorized Signatory:

(John Zou)

Hang lang

(Bovey Yang)







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1. General Information

1.1 EUT Description

Equipment	GSM/WCDMA Smartphone				
Brand Name	DOOGEE				
Model No.	X6				
Series Model	X6 Pro,X6C,X6 Plus				
FCC ID					
Model Difference	Only different in model name				
Adapter	Power supply and ADP(rating): Input:100V-240V,50/60Hz 200mA Output: DC5V, 700mA				
Battery	Rated Voltage: 3.8V Charge Limit: 4.35V Capacity:3000mAh				
Hardware Version	N/A				
Software Version	N/A				
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:2402~2480 MHz				
Transmit Power(Average):	GSM 850: 32.25dBm GSM 1900: 29.02dBm WCDMA II: 22.05dBm WCDMA V: 22.49dBm	802.11b: 10.4dBm 802.11g: 8.5dBm 802.11 n(HT20): 8.4dBm 802.11 n(HT40): 7.1dBm Bluetooth: -0.369dBm			
Max. Reported SAR(1g):	Head: GSM 850: 0.146 W/kg GSM 1900: 0.294 W/kg WCDMA II: 0.300 W/kg WCDMA V: 0.297 W/kg WIFI: 0.246 W/kg	Body: GSM 850: 0.263 W/kg GSM 1900: 0.862 W/kg WCDMA II: 0.806 W/kg WCDMA V: 0.276 W/kg WIFI: 0.124 W/kg			
Operating Mode:	GSM: GSM Voice, GPRS, EGPRS Class 12; WCDMA: RMC, HSDPA, HSUPA Release 6; WLAN: 802.11 b/g/n; Bluetooth: V4.0 + EDR (GFSK + π /4DQPSK+8DPSK)				
Antenna Specification:	GSM/WCDMA: PIFA Antenna BT/WIFI: PIFA Antenna				
Hotspot Mode:	Support				
DTM Mode:	Not Support				



Ambient conditions in the SAR laboratory:

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

1.3 Test Facitory

Shenzhen STS Test Services Co., Ltd.

Add.: 1/F, Building B, Zhuoke Science Park, No. 190, Chongqing Road, Fuyong,

Baoan District, Shenzhen, Guangdong, China

CNAS Registration No.: L7649

FCC Registration No.: 842334;IC Registration No.: 12108A-1





2. Test Standards And Limits

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	ANSI/IEEE Std. C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz
3	IEEE Std. 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
4	FCC KDB 447498 D01 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 D02 v01r01	RF Exposure Reporting
7	FCC KDB 941225 D01	SAR Measurement Procedures for 3G Devices
8	FCC KDB 248227 D01 Wi-Fi SAR v02	SAR Considerations for 802.11 Devices

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

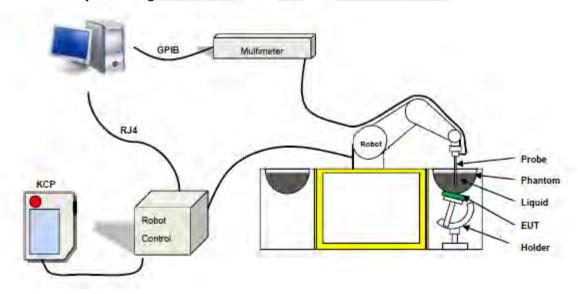
$$SAR = \frac{\sigma E^2}{\rho}$$

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 suface normal line:less than 30°



Figure 1 - Satimo COMOSAR Dosimetric E field Dipole



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 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 \pm 0.5 mm would produce a SAR uncertainty of \pm 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: Dec.02, 2015 Ambient condition: Temperature 22.0°C Relative humidity: 49%

Head Simula	Head Simulating Liquid		.		D	L !!4 FO/]	
Frequency	Temp. [°C]	Parameters Target		Measured	Deviation[%]	Limited[%]	
835 MHz	21.5	Permitivity:	41.5	41.19	-0.75	±5	
000 1411 12	21.5	Conductivity:	0.9	0.89	-1.11	± 5	
1900 MHz	21.5	Permitivity:	40.0	39.44	-1.40	± 5	
1900 WITE	21.5	Conductivity:	1.4	1.42	1.43	± 5	
2450 MHz	21.5	Permitivity:	39.2	39.38	0.46	± 5	
	21.5	Conductivity:	1.8	1.77	-1.67	± 5	

Body Simulating Liquid			- ,		D : // F0/1	1	
Frequency	Temp. [°C]	Parameters	Target	Measured	Deviation[%]	Limited[%]	
835 MHz	21.5	Permitivity:	55.2	54.262	-1.70	± 5	
000 WII IZ	21.5	Conductivity:	0.97	0.99	2.06	± 5	
1900 MHz	21.5	Permitivity:	53.3	52.78	-0.98	± 5	
1900 WHZ	21.5	Conductivity:	1.52	1.55	1.97	± 5	
2450 MHz 21.5	24.5	Permitivity:	52.7	52.41	-0.55	± 5	
	21.5	Conductivity:	1.95	1.93	-1.03	± 5	

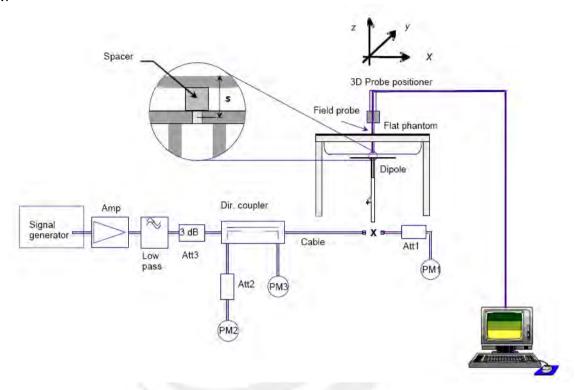


5. SAR System Validation

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	0.928	9.28	9.56	3.02	2015-12-02
835 Body	100	0.988	9.88	9.56	-3.24	2015-12-02
1900 Head	100	3.892	38.92	39.8	2.26	2015-12-02
1900 Body	100	4.124	41.24	39.8	-3.49	2015-12-02
2450 Head	100	5.156	51.56	52.4	1.63	2015-12-02
2450 Body	100	5.108	51.08	52.4	2.58	2015-12-02

Note: The tolerance limit of System validation ±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

It is a GSM/WCDMA Smartphone, support GSM mode and WCDMA mode.





WWAN Antenna



WIFI/BT Antenna



7.1 SAR TEST EXCLUSION CONSIDER TABLE

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

	Test position configurations							
Band	Front	Back	Left edge	Right edge	Top edge	Bottom edge		
0014050	<5mm	<5mm	<5mm	<5mm	140mm	<5mm		
GSM850	Yes	Yes	Yes	Yes	No	Yes		
00144000	<5mm	<5mm	<5mm	<5mm	140mm	<5mm		
GSM1900	Yes	Yes	Yes	Yes	No	Yes		
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<5mm	<5mm	<5mm	<5mm	140mm	<5mm		
WCDMA Band2	Yes	Yes	Yes	Yes	No	Yes		
	<5mm	<5mm	<5mm	<5mm	140mm	<5mm		
WCDMA Band5	Yes	Yes	Yes	Yes	No	Yes		
	<5mm	<5mm	<5mm	60mm	<5mm	140mm		
WLAN	Yes	Yes	Yes	No	Yes	No		
	<5mm	<5mm	<5mm	60mm	<5mm	140mm		
Bluetooth	Yes	Yes	Yes	No	Yes	No		

Note:

- 1. maximum power is the source-based time-average power and represents the maximum RF output power among production units.
- 2. per KDB 447498 D01v05r02, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
- 3. per KDB 447498 D01v05r02, standalone SAR test exclusion threshold is applied; if the distance of the antenna to the user is <5mm, 5mm is user to determine SAR exclusion threshold
- 4. per KDB 447498 D01v05r02, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distance ≤50mm are determined by:
 - [(max.power of channel, including tune-up tolerance, Mw)/(min. test separation distance, mm)]*[\checkmark f(GHZ)) \leqslant 3.0 for 1-g SAR and \leqslant 7.5 for10-g extremity SAR
 - f(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







- Per KDB 447498 D02v02r02,RMC 12.2kbps setting is used to evaluate SAR. If HSDPA/HSUPA/DC-HSDPA output power is<0.25db higher than RMC 12.2Kbps,or reported SAR with RMC 12.2kbps setting is ≤1.2W/Kg, HSDPA/HSUPA/DC-HSDPA SAR evaluation can be excluded.
- 7. Per KDB 248227 D01v01r02,choose the highest output power channel to test SAR and determine futher SAR exclusion 8.for each frequency band ,testing at higher data rates and higher order modulations is not required when the maximum average output power for each of each of these configurations is less than 1/4db higher than those measured at the lower data rate than 11b mode ,thus the SAR can be excluded.





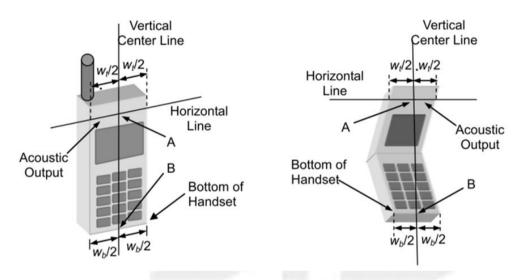


8. EUT Test Position

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

8.1 Define Two Imaginary Lines On The Handset

- (1)The vertical centerline passes through two points on the front side of the handset the midpoint of the width wt of the handset at the level of the acoustic output, and the midpoint of the width wb 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

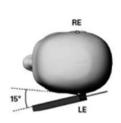
- (1)To position the device in the "cheek" position described above.
- (2) While maintaining the device in the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until with the ear is lost.











Body-worn Position Conditions

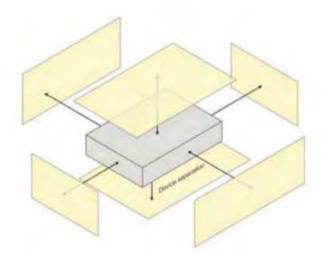
- (1) To position the EUT parallel to the phantom surface.
- (2) To adjust the EUT parallel to the flat phantom.
- (3) To adjust the distance between the EUT surface and the flat phantom to 5mm.





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 form that surface or edge. When form factor of a handset is smaller than 9cm x 5cm, a test separation distance of 5mm(instead of 10mm)is required for testing hotspot mode. When the separate distance required for body-worn accessory testing is larger than or equal to that tested for hotspot mode, in the same wireless mode and for the same surface of the phone, the hotspot mode SAR data may be used to support body-worn accessory SAR compliance for that particular configuration(surface).





9. Uncertainty

9.1 Measurement Uncertainty

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

		I		I	I		Г		
NO	Source	Tol(%)	Prob. Dist.	Div. k	ci (1g)	ci (10g)	1gUi	10gUi	Veff
Measurement System □									
1	Probe calibration	5.8	Ν	1	1	1	5.8	5.8	8
2	Axial isotropy	3.5	R	√3	(1-cp) ^{1/2}	(1-cp) ^{1/2}	1.43	1.43	8
3	Hemispherical isotropy	5.9	R	√3	√Cp	√Cp	2.41	2.41	80
4	Boundary effect	1.0	R	√3	1	1	0.58	0.58	8
5	Linearity	4.7	R	√3	1	1	2.71	2.71	8
6	System Detection limits	1.0	R	√3	1	Ī.	0.58	0.58	8
7	Readout electronics	0.5	N	11	1	1	0.50	0.50	80
8	Response time	0	R	√3	1	1	0	0	8
9	Integration time	1.4	R	√3	1	1	0.81	0.81	8
10	Ambient noise	3.0	R	√3	1	1	1.73	1.73	8
11	Ambient reflections	3.0	R	√3	1	1	1.73	1.73	8
12	Probe positioner mech. restrictions	1.4	R	√3	1	1	0.81	0.81	80
13	Probe positioning with respect to phantom shell	1.4	R	√3	1	1	0.81	0.81	8
14	Max.SAR evaluation	1.0	R	√3	1	1	0.6	0.6	8
Test s	ample 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



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\/3	1	1	2 80	2 80	

17	Drift of output power	5.0	R	√3	1	1	2.89	2.89	80	
Phant	Phantom and set-up									
18	Phantom uncertainty	4.0	R	√3	1	1	2.31	2.31	8	
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	8	
22	Liquid Permittivity (meas)	5.0	N	1	0.23	0.26	1.15	1.30	8	
Comb	oined standard		RSS $U_{c} = \sqrt{\sum_{i=1}^{n} C_{i}^{2} U_{i}^{2}}$		10.63%	10.54%				
Expar (P=95	aded uncertainty $U=k\ U_{C}$,k=2					21.26%	21.08%			



9.2 System validation Uncertainty

							1				
NO	Source	Tol(%)	Prob. Dist.	Div. k	ci (1g)	ci (10g)	1gUi	10gUi	Veff		
Meas	Measurement System □										
1	Probe calibration	5.8	N	1	1	1	5.8	5.8	80		
2	Axial isotropy	3.5	R	√3	(1-cp) ^{1/2}	(1-cp) ^{1/2}	1.43	1.43	8		
3	Hemispherical isotropy	5.9	R	√3	√Cp	√Cp	2.41	2.41	∞		
4	Boundary effect	1.0	R	√3	1	1	0.58	0.58	∞		
5	Linearity	4.7	R	√3	1	1	2.71	2.71	&		
6	System Detection limits	1.0	R	√3	1	1	0.58	0.58	∞		
7	Modulation response	0	N	1	1	1	0	0	8		
8	Readout electronics	0.5	N	1	1	1	0.50	0.50	8		
9	Response time	0	R	√3	1	1	0	0	8		
10	Integration time	1.4	R	√3	1	1	0.81	0.81	8		
11	Ambient noise	3.0	R	√3	1	1	1.73	1.73	∞		
12	Ambient reflections	3.0	R	√3	1	1	1.73	1.73	∞		
13	Probe positioner mech. restrictions	1.4	R	√3	1	1	0.81	0.81	∞		
14	Probe positioning with respect to phantom shell	1.4	R	√3	1	1	0.81	0.81	∞		
15	Max.SAR evaluation	1.0	R	√3	1	1	0.6	0.6	∞		
Dipole	÷										
16	Deviation of experimental source from	4	N	1	1	1	4.00	4.00	∞		
17	Input power and SAR drit measurement	5	R	√3	1	1	2.89	2.89	∞		



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18	Dipole Axis to liquid Distance	2	R	√3	1	1			8	
Phan	Phantom and set-up									
19	Phantom uncertainty	4.0	R	√3	1	1	2.31	2.31	80	
20	Uncertainty in SAR correction for deviation(in	2.0	N	1	1	0.84	2	1.68	8	
21	Liquid conductivity (target)	2	N	1	1	0.84	2.00	1.68	8	
22	Liquid conductivity (temperature uncertainty)	2.5	N	1	0.78	0.71	1.95	1.78	5	
23	Liquid conductivity (meas)	4	N	1	0.23	0.26	0.92	1.04	5	
24	Liquid Permittivity (target)	2.5	N	1	0.78	0.71	1.95	1.78	8	
25	Liquid Permittivity (temperature uncertainty)	2.5	N	1	0.78	0.71	1.95	1.78	5	
26	Liquid Permittivity (meas)	5.0	N	1	0.23	0.26	1.15	1.30	8	
Comb	oined standard		RSS	$U_{C} = \sqrt{\sum_{i=1}^{n} C_{i}^{2} U_{i}^{2}}$		10.15%	10.05%			
Expai (P=95	nded uncertainty 5%)	inty $U=k\ U_{C}$,k=2					21.29%	21.10%		



10. Conducted Power Measurement

Test Result:

Maximum Burst-Averaged Output Power (dBm)									
Band		GSM 850		PCS 1900					
Channel	128	190	251	512	661	810			
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880.0	1909.8			
GSM(GMSK, 1-Slot)	32.05	32.18	32.25	28.68	28.77	29.02			
GPRS (GMSK, 1-Slot)	32.04	32.16	32.24	28.67	28.69	29.00			
GPRS (GMSK, 2-Slot)	31.20	31.34	31.37	27.72	27.79	28.10			
GPRS (GMSK, 3-Slot)	29.92	30.03	30.11	26.41	26.49	26.83			
GPRS (GMSK, 4-Slot)	29.28	29.44	29.53	25.81	25.90	26.14			
EGPRS(8PSK, 1-Slot)	32.04	32.11	32.19	28.63	28.64	28.95			
EGPRS(8PSK, 2-Slot)	31.12	31.21	31.35	27.72	27.76	28.03			
EGPRS(8PSK, 3-Slot)	29.74	29.95	30.04	26.41	26.49	26.72			
EGPRS(8PSK, 4-Slot)	29.18	29.26	29.46	25.72	25.90	26.18			

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

Maximum Frame-Averaged Output Power(dBm)									
Band		GSM 850		PCS 1900					
Channel	128	190	251	512	661	810			
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880.0	1909.8			
GSM(GMSK, 1-Slot)	23.05	23.18	23.25	19.68	19.77	20.02			
GPRS (GMSK, 1-Slot)	23.04	23.16	23.24	19.67	19.69	20.00			
GPRS (GMSK, 2-Slot)	25.20	25.34	25.37	21.72	21.79	22.10			
GPRS (GMSK, 3-Slot)	25.66	25.77	25.85	22.15	22.23	22.57			
GPRS (GMSK, 4-Slot)	26.28	26.44	26.53	22.81	22.90	23.14			
EGPRS(8PSK, 1-Slot)	23.04	23.11	23.19	19.63	19.64	19.95			
EGPRS(8PSK, 2-Slot)	25.12	25.21	25.35	21.72	21.76	22.03			
EGPRS(8PSK, 3-Slot)	25.48	25.69	25.78	22.15	22.23	22.46			
EGPRS(8PSK, 4-Slot)	26.18	26.26	26.46	22.72	22.90	23.18			

Remark:

- 1. SAR testing was performed on the maximum frame-averaged power mode.
- 2. The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum

burst-averaged power based on time slots. The calculated method is shown as below:

Frame-averaged power = Burst averaged power (1 Tx Slot) - 9 dB

Frame-averaged power = Burst averaged power (2 Tx Slots) - 6 dB

Frame-averaged power = Burst averaged power (3 Tx Slots) - 4.26 dB

Frame-averaged power = Burst averaged power (4 Tx Slots) - 3 dB



Band	WCDMA Band V			WCDMA Band II		
Channel	4132	4182	4233	9263	9400	9537
Frequency (MHz)	826.4	836.6	846.6	1852.4	1880.0	1907.6
RMC 12.2Kbps	22.46	22.17	22.49	22.05	21.98	21.92
HSDPA Subtest-1	21.97	21.73	22.01	21.57	21.49	21.46
HSDPA Subtest-2	21.60	21.33	21.58	21.09	21.14	20.99
HSDPA Subtest-3	21.14	20.87	21.09	20.65	20.71	20.53
HSDPA Subtest-4	20.56	20.26	20.59	20.05	20.20	19.97
HSUPA Subtest-1	21.51	21.31	21.59	21.16	21.00	21.04
HSUPA Subtest-2	21.08	20.87	21.17	20.73	20.52	20.54
HSUPA Subtest-3	20.65	20.40	20.69	20.26	20.06	20.11
HSUPA Subtest-4	20.10	19.77	20.14	19.59	19.51	19.57
HSUPA Subtest-5	19.44	19.15	19.59	19.07	18.85	19.01

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≤ CM≤3.5	MAX(CM-1,0)

Note: CM=1 for β c/ β d=12/15, β hs/ β c=24/15.For all other combinations of DPDCH, DPCCH, HS-DPCCH.

E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

The device supports MPR to solve linearity issues (ACLR or SEM) due to the higher peak-to average ratios (PAR) of the HSUPA signal. This prevents saturating the full range of the TX DAC inside of device and provides a reduced power output to the RF transceiver chip according to the Cubic Metric (a function of the combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH).

When E-DPDCH channels are present the beta gains on those channels are reduced firsts to try to get the power under the allowed limit. If the beta gains are lowered as far as possible, then a hard limiting is applied at the maximum allowed level.

The SW currently recalculates the cubic metric every time the beta gains on the E-DPDCH are reduced. The cubic metric will likely get lower each time this is done. However, there is no reported reduction of maximum output power in the HSUPA mode since the device also provides a compensation for the power back-off by increasing the gain of TX_AGC in the transceiver (PA) device.

The end effect is that the DUT output power is identical to the case where there is no MPR in the device.



Mode	Channel Number	Frequency (MHz)	Average Power (dBm)
	1	2412	10.4
802.11b	6	2437	10.1
	11	2462	10.2
	1	2412	6.8
802.11g	6	2437	7.4
	11	2462	8.5
	1	2412	6.7
802.11n(HT-20)	6	2437	7.4
	11	2462	8.4
	3	2422	5.4
802.11n(HT-40)	6	2437	6.9
	9	2452	7.1

Justification for test configurations for WLAN per KDB publication 248227 D01Wi-Fi SAR v02:

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

Bluetooth

Mode	Channel Number	Frequency (MHz)	Average Power (dBm)
	0	2402	-0.369
GFSK(1Mbps)	39	2441	-0.797
	78	2480	-0.563
	0	2402	-1.034
π/4-DQPSK(2Mbps)	39	2441	-0.777
	78	2480	-0.589
	0	2402	-1.360
8-DPSK(3Mbps)	39	2441	-1.513
	78	2480	-1.256







Mode	Channel Number	Frequency (MHz)	Average Power (dBm)
	0	2402	-8.227
GFSK(1Mbps)	20	2441	-8.619
, , ,	39	2480	-8.345





Mode	GSM850(AVG)	GSM1900(AVG)
GSM/PCS	31.5±1dBm	29.0±1dBm
GPRS (1 Slot)	31.3±1dBm	29.0±1dBm
GPRS (2 Slot)	30.3±1dBm	28.0±1dBm
GPRS (3 Slot)	30.0±1dBm	26.0±1dBm
GPRS (4 Slot)	29.0±1dBm	26.0±1dBm
EDGE (1 Slot)	32.1±1dBm	28.0±1dBm
EDGE (2 Slot)	31.0±1dBm	28.0±1dBm
EDGE (3 Slot)	30.0±1dBm	26.0±1dBm
EDGE (4 Slot)	29.0±1dBm	26.0±1dBm

Mode	WCDMA Band V(AVG)	WCDMA Band II(AVG)
AMR	21.6±1dBm	21.1±1dBm
HSDPA Subtest-1	22.0±1dBm	20.7±1dBm
HSDPA Subtest-2	21.0±1dBm	21.0±1dBm
HSDPA Subtest-3	21.0±1dBm	20.0±1dBm
HSDPA Subtest-4	20.0±1dBm	20.0±1dBm
HSUPA Subtest-1	21.0±1dBm	21.0±1dBm
HSUPA Subtest-2	21.0±1dBm	20.0±1dBm
HSUPA Subtest-3	20.0±1dBm	20.0±1dBm
HSUPA Subtest-4	20.0±1dBm	19.0±1dBm
HSUPA Subtest-5	19.0±1dBm	19.0±1dBm

Mode	WIFI(PEAK)		
IEEE 802.11b	10.0±1dBm		
IEEE 802.11g	7.6±1dBm		
IEEE 802.11n HT20	7.5±1dBm		
IEEE 802.11n HT40	6.2±1dBm		

Mode	BT(PEAK)
GFSK	0±1dBm
π/4-DQPSK	-1±1dBm
8DPSK	-1±1dBm

Mode	BT4.0(PEAK)			
GFSK	-8±1dBm			



11. EUT And Test Setup Photo

11.1 EUT Photo





Back side





Top side



Bottom side





Left side

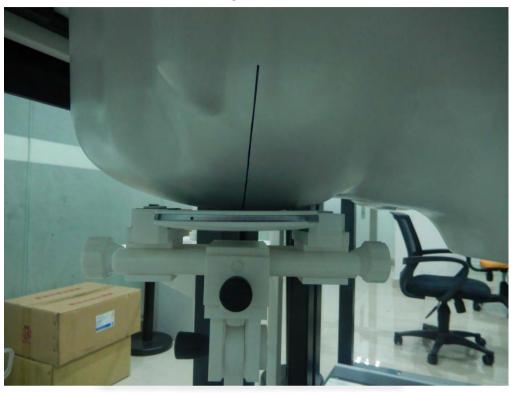


Right side

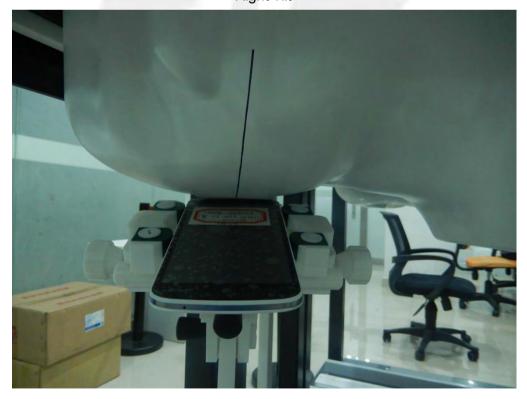




Right Touch

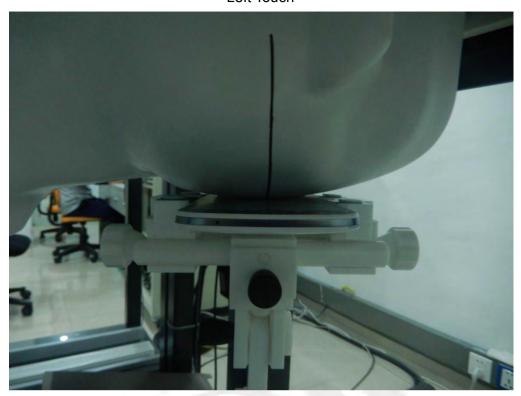


Right Tilt

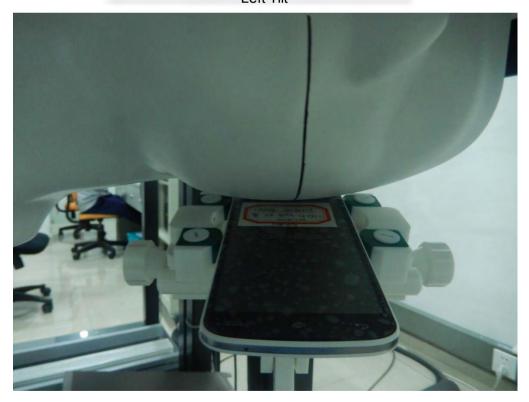




Left Touch

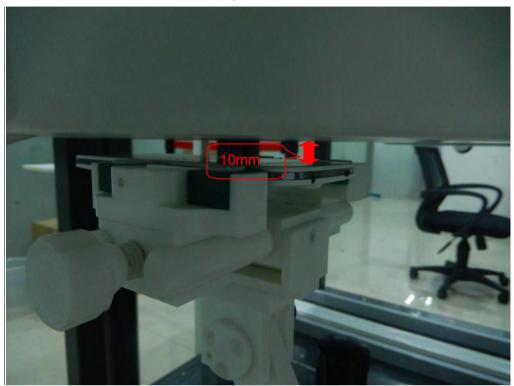


Left Tilt

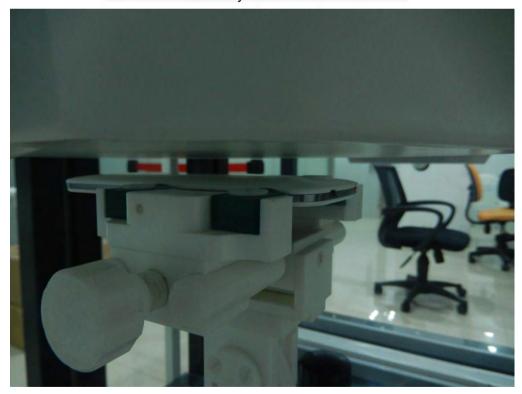




Body Front side

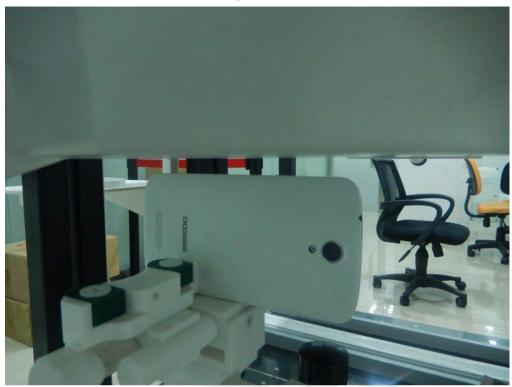


Body Back side





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	0.111	-0.12	32.5	32.25	0.118	1
		Right Tilt	CH 251	0.037	1.89	32.5	32.25	0.039	2
		Left Cheek	CH 251	0.138	1.00	32.5	32.25	0.146	3
		Left Tilt	CH 251	0.052	4.19	32.5	32.25	0.055	4
GSM1900	Voice	Right Cheek	CH 810	0.235	-0.57	30.0	29.02	0.294	10
		Right Tilt	CH 810	0.055	2.41	30.0	29.02	0.069	11
		Left Cheek	CH 810	0.150	3.75	30.0	29.02	0.188	12
		Left Tilt	CH 810	0.062	-2.61	30.0	29.02	0.078	13
WCDMA II	RMC	Right Cheek	CH 9263	0.297	1.53	22.1	22.05	0.300	19
		Right Tilt	CH 9263	0.099	1.24	22.1	22.05	0.100	20
		Left Cheek	CH 9263	0.216	0.19	22.1	22.05	0.219	21
		Left Tilt	CH 9263	0.098	-0.17	22.1	22.05	0.099	22
WCDMA V	RMC	Right Cheek	CH4233	0.116	0.07	22.6	22.49	0.119	28
		Right Tilt	CH4233	0.234	-0.31	22.6	22.49	0.240	29
		Left Cheek	CH4233	0.290	-1.07	22.6	22.49	0.297	30
		Left Tilt	CH4233	0.108	-0.59	22.6	22.49	0.111	31

Band	Mode	Test Position	Channel	Result 1g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Duty cycle(%)	Scaled SAR (W/Kg)	Meas. No.
WIFI	DATA	Right Cheek	CH1	0.214	0.96	11.0	10.4	100	0.246	37
		Right Tilt	CH1	0.166	-0.06	11.0	10.4	100	0.191	38
		Left Cheek	CH1	0.150	-1.00	11.0	10.4	100	0.172	39
		Left Tilt	CH1	0.129	-0.08	11.0	10.4	100	0.148	40



12.2 Body SAR And Hotspot

Band	Mode	Test Position	Channel	Result 1g (W/Kg)	Power Drift(%)	Max.Turn -up Power(d Bm)	Meas.Ou tput Power(d Bm)	Scaled SAR (W/Kg)	Meas. No.
		Front side	CH 251	0.135	-2.98	30.0	29.53	0.150	5
	GPRS	Back side	CH 251	0.236	-2.54	30.0	29.53	0.263	6
GSM 850	Data-4 Slot	Left side	CH 251	0.136	1.22	30.0	29.53	0.152	7
	(hotspot)	Right side	CH 251	0.070	1.12	30.0	29.53	0.078	8
		Bottom side	CH 251	0.121	0.31	30.0	29.53	0.135	9
		Front side	CH 810	0.714	2.87	27.0	26.18	0.862	14
	GPRS	Back side	CH 810	0.604	1.35	27.0	26.18	0.730	15
GSM 1900	Data-4 Slot	Left side	CH 810	0.158	-1.27	27.0	26.18	0.191	16
1000	(hotspot)	Right side	CH 810	0.238	0.60	27.0	26.18	0.287	17
		Bottom side	CH 810	0.669	0.65	27.0	26.18	0.808	18
		Front side	CH 9263	0.797	-0.66	22.1	22.05	0.806	23
	RMC	Back side	CH 9263	0.771	-1.86	22.1	22.05	0.780	24
WCDMA	(body-worn	Left side	CH 9263	0.194	-0.36	22.1	22.05	0.196	25
	and hotspot)	Right side	CH 9263	0.321	2.45	22.1	22.05	0.325	26
		Bottom side	CH 9263	0.754	-0.37	22.1	22.05	0.763	27
		Front side	CH4233	0.238	-1.03	22.6	22.49	0.244	32
	RMC	Back side	CH4233	0.269	-0.11	22.6	22.49	0.276	33
WCDMA V	(body-worn and	Left side	CH4233	0.180	-0.80	22.6	22.49	0.185	34
V	hotspot)	Right side	CH4233	0.078	-0.98	22.6	22.49	0.080	35
		Bottom side	CH4233	0.114	-0.14	22.6	22.49	0.117	36

Band	Mode	Test Position	Channel	Result 1g (W/Kg)	Power Drift(%)	Max.Turn -up Power(d Bm)	Meas.Ou tput Power(d Bm)	Duty cycle(%)	Scaled SAR (W/Kg)	Meas. No.
	DATA	Front side	CH1	0.089	-0.35	11.0	10.4	100	0.102	41
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	DATA (body-	Back side	CH1	0.108	-0.35	11.0	10.4	100	0.124	42
WIFI	worn and	Left side	CH1	0.075	-0.16	11.0	10.4	100	0.086	43
	hotspot)	Top side	CH1	0.080	-0.21	11.0	10.4	100	0.092	44

Note:

- 1. The test separation of all above table is 10mm.
- 2. Per KDB 248227- When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg. (The highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power was **0.159** W/Kg for Head and **0.080** W/Kg for Body/Hotspot)



Simultaneous Multi-band Transmission Evaluation:

Application Simultaneous Transmission information:

Position	Simultaneous state	
	1. GSM + WIFI	
Head	2. GSM + Bluetooth	
Head	3. WCDMA + WIFI	
	4. WCDMA + Bluetooth	
	1. GSM + WIFI	
B .	2. GSM + Bluetooth	
Body	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 50mm,Bluetooth standalone SAR is excluded according to [(max. power of channel, including tune-up tolerance, mW)/ (min. test separation distance, mm) $\cdot [\sqrt{f} (GHz)/x] \leq 3.0$ for 1-g SAR and \leq 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) (max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[\sqrt{f} (GHz) /x] W/kg for test separation distances 50 mm; Where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR.
- b) 0.4W/Kg for 1-g SAR and 1.0W/Kg for 10-g SAR, when the separation distance is >50mm.

Estimated SAR		Maximum Average Power		Antenna	Frequency(GHz)	Stand alone
		dBm	mW	to user(mm)	1 7 7	SAR(1g) [W/kg]
	Head	1	1.26	5	2.402	0.052
ВТ	Body		1.20	10	2.402	0.026



Simultaneous Mode	Position	Mode	Max. 1-g SAR (W/kg)	1-g Sum SAR (W/kg)	
	Head GSM Voice		0.294	0.540	
GSM + WIFI	Пеац	WIFI	0.246	0.540	
GSW + WIFI	Pody worn	GSM DATA	0.826	0.950	
	Body-worn	WIFI	0.124	0.950	
	Head	GSM Voice	0.294	0.346	
GSM + Bluetooth	неао	Bluetooth	0.052	0.346	
GSIM + Bluetooth	Body-worn	GSM Voice	0.826	0.852	
		Bluetooth	0.026	0.002	
	Head	WCDMA RMC	0.300	0.546	
WCDMA RMC+ WIFI	неао	WIFI	0.246	0.546	
WCDIVIA RIVIC+ WIFI	Body-worn	WCDMA RMC	0.806	0.030	
	Hotspot	WIFI	0.124	0.930	
	Head	WCDMA RMC	0.300	0.352	
WCDMA RMC+ Bluetooth	пеаи	Bluetooth	0.052	0.332	
VVCDIVIA RIVICT DIUELOOLII	Body-worn	WCDMA RMC	0.806	0.033	
	Hotspot	Bluetooth	0.026	0.832	

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

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



13. Equipment List

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
835MHz Dipole	SATIMO	SID835	SN 30/14 DIP0G835-332	2014.09.01	2017.08.31
1900MHz Dipole	SATIMO	SID1900	SN 30/14 DIP1G900-333	2014.09.01	2017.08.31
2450 MHz Dipole	SATIMO	SID2450	SN 30/14 DIP2G450-335	2014.09.01	2017.08.31
E-Field Probe	SATIMO	SSE5	SN 17/14 EP221	2015.09.01	2016.08.31
Antenna	SATIMO	ANTA3	SN 07/13 ZNTA52	2014.09.01	2017.08.31
Waveguide	SATIMO	SWG5500	SN 13/14 WGA32	2014.09.01	2017.08.31
Phantom1	SATIMO	SAM	SN 32/14 SAM115	N/A	N/A
Phantom2	SATIMO	SAM	SN 32/14 SAM116	N/A	N/A
SAR TEST BENCH	SATIMO	MOBILE PHONE POSITIONNING SYSTEM	SN 32/14 MSH97	N/A	N/A
SAR TEST BENCH	SATIMO	LAPTOP POSITIONNING SYSTEM	SN 32/14 LSH29	N/A	N/A
Dielectric Probe Kit	SATIMO	SCLMP	SN 32/14 OCPG52	2015.09.01	2016.08.31
Multi Meter	Keithley	Multi Meter 2000	4050073	2015.11.20	2016.11.19
Signal Generator	Agilent	N5182A	MY50140530	2015.11.18	2016.11.17
Power Meter	R&S	NRP	100510	2015.10.25	2016.10.24
Power Sensor	R&S	NRP-Z11	101919	2015.10.24	2016.10.23
Power Sensor	Anritsu	MA2411B	1027253	2015.10.10	2016.10.09
Power Sensor	R&S	NRP-Z21	103971	2014.12.12	2015.12.11
Network Analyzer	Agilent	5071C	EMY46103472	2014.12.12	2015.12.11
Attenuator 1	PE	PE7005-10	N/A	2015.10.25	2016.10.24
Attenuator 2	PE	PE7005-3	N/A	2015.10.24	2016.10.23
Attenuator 3	Woken	WK0602-XX	N/A	2014.12.12	2015.12.11
Dual Directional Coupler	Agilent	778D	50422	2015.11.18	2016.11.17



Appendix A. System Validation Plots

System Performance Check Data (835MHz Head)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm

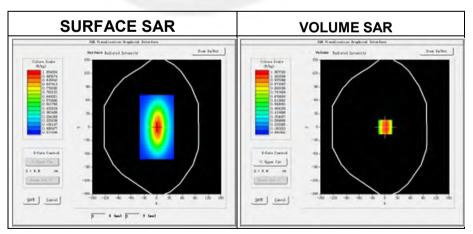
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2015-12-02

Measurement duration: 13 minutes 27 seconds

Experimental conditions

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



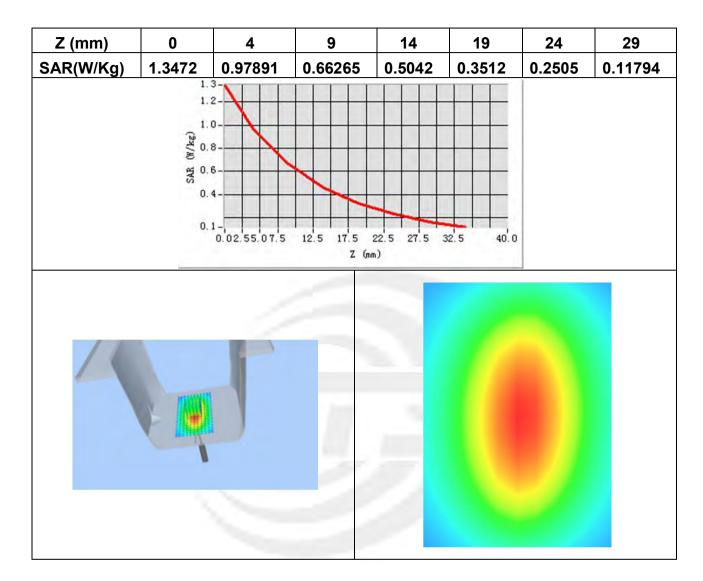
Maximum location: X=1.00, Y=0.00

SAR Peak: 1.46 W/kg

SAR 10g (W/Kg)	0.612584
SAR 1g (W/Kg)	0.928356



Z Axis Scan





System Performance Check Data (835MHz Body)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm

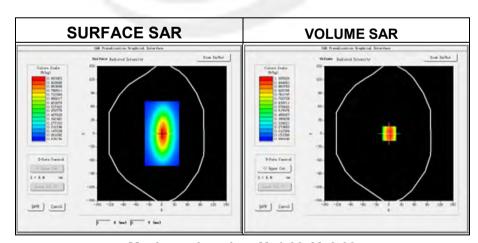
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2015-12-02

Measurement duration: 14 minutes 13 seconds

Experimental conditions.

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



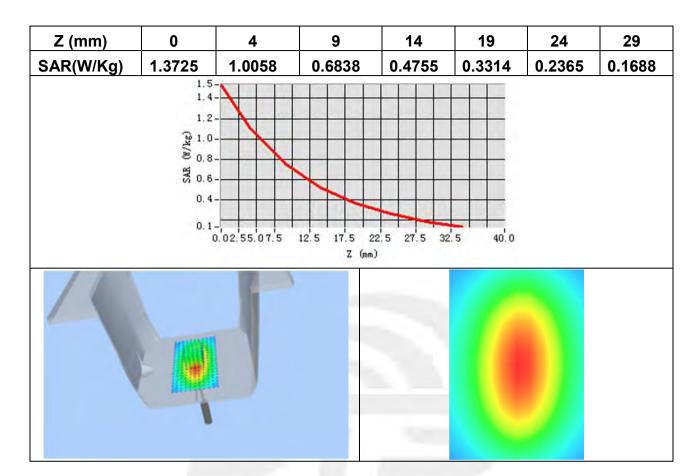
Maximum location: X=1.00, Y=0.00

SAR Peak: 1.48 W/kg

SAR 10g (W/Kg)	0.695261
SAR 1g (W/Kg)	0.987695



Z Axis Scan





System Performance Check Data (1900MHz Head)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm

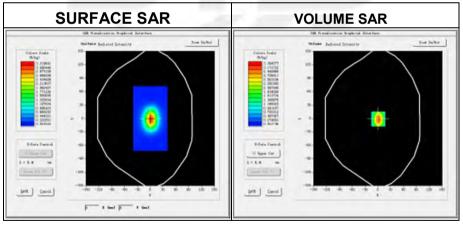
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2015-12-02

Measurement duration: 14 minutes 12 seconds

Experimental conditions.

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



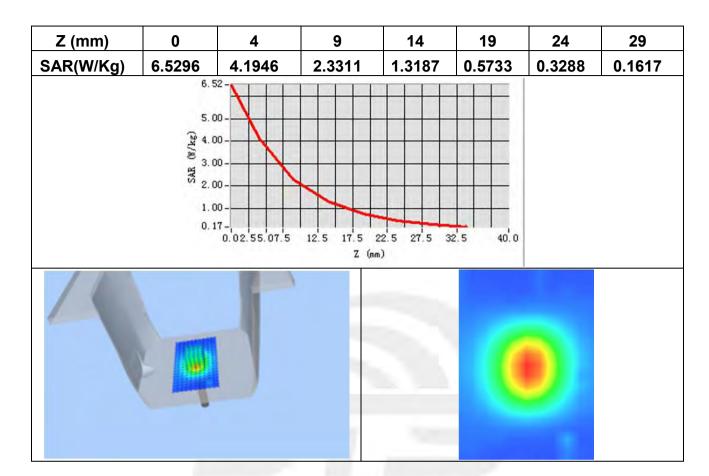
Maximum location: X=1.00, Y=0.00

SAR Peak: 5.39 W/kg

SAR 10g (W/Kg)	1.975658
SAR 1g (W/Kg)	3.892354



Z Axis Scan





System Performance Check Data (1900MHz Body)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm

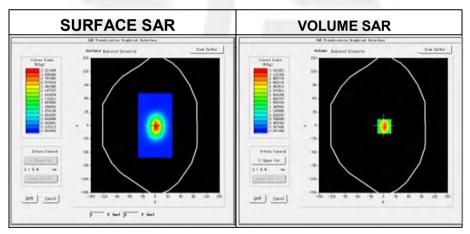
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2015-12-02

Measurement duration: 14 minutes 46 seconds

Experimental conditions.

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



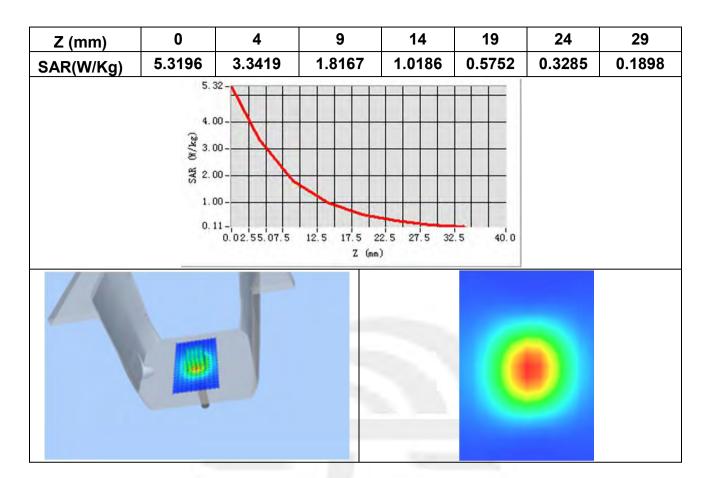
Maximum location: X=2.00, Y=2.00

SAR Peak: 5.27 W/kg

SAR 10g (W/Kg)	2.135625
SAR 1g (W/Kg)	4.123621



Z Axis Scan





System Performance Check Data (2450MHz Head)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm

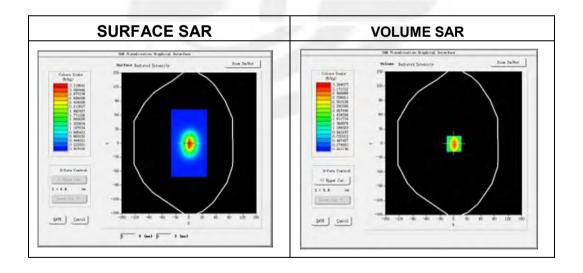
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2015-12-02

Measurement duration: 13 minutes 51 seconds

Experimental conditions.

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

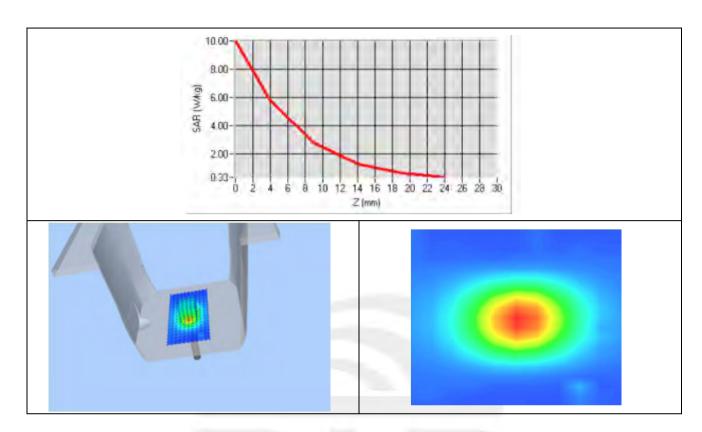


Maximum location: X=7.00, Y=6.00

SAR 10g (W/Kg)	2.635821
SAR 1g (W/Kg)	5.156285



Z Axis Scan







System Performance Check Data (2450MHz Body)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm

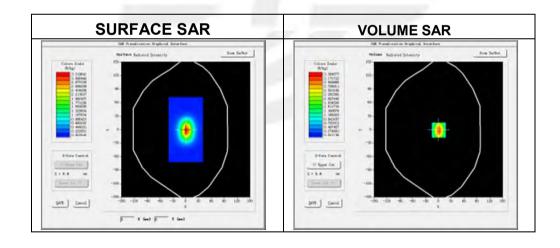
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2015-12-02

Measurement duration: 14 minutes 23 seconds

Experimental conditions.

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

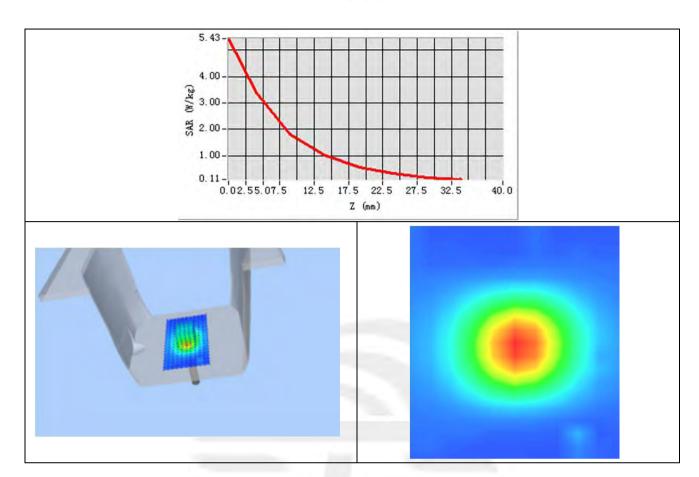


Maximum location: X=3.00, Y=1.00

SAR 10g (W/Kg)	2.536281
SAR 1g (W/Kg)	5.108165



Z Axis Scan





Appendix B. SAR Test Plots

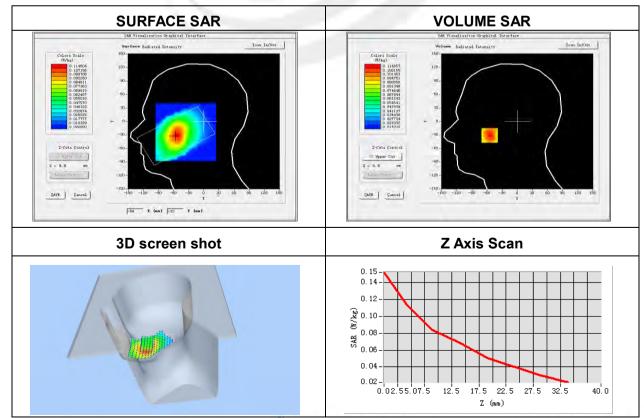
Plot 1: DUT: GSM/WCDMA Smartphone; EUT Model: X6

Test Data	2015-12-02
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	High
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	848.8
Relative permittivity (real part)	42.27
Conductivity (S/m)	0.91
Variation (%)	-0.12

Maximum location: X=-55.00, Y=-31.00

SAR Peak: 0.15 W/kg

SAR 10g (W/Kg)	0.079263
SAR 1g (W/Kg)	0.111235





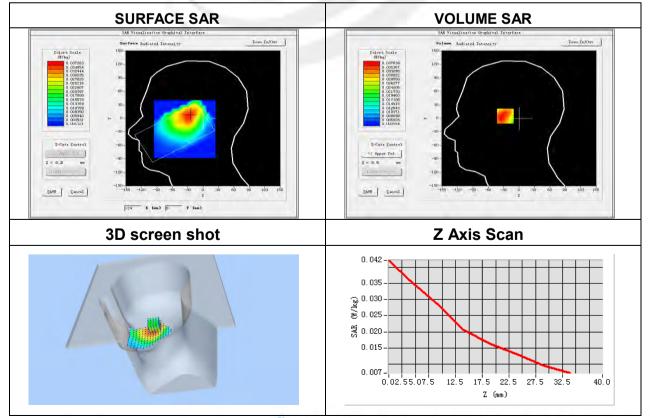
Plot 2: DUT: GSM/WCDMA Smartphone; EUT Model: X6

Test Data	2015-12-02
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
Zoom Scan	5x5x7,dx=8mmdy=8mmdz=5mm,
Zoom Scan	Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Tilt
Band	GSM850
Channels	High
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	848.8
Relative permittivity (real part)	42.27
Conductivity (S/m)	0.91
Variation (%)	1.89

Maximum location: X=-25.00, Y=7.00

SAR Peak: 0.05 W/kg

SAR 10g (W/Kg)	0.026383
SAR 1g (W/Kg)	0.036536



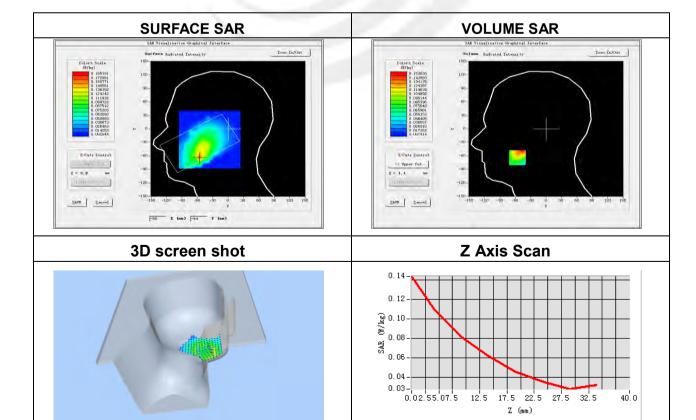


Plot 3: DUT: GSM/WCDMA Smartphone; EUT Model: X6

Test Data	2015-12-02
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	High
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	848.8
Relative permittivity (real part)	42.27
Conductivity (S/m)	0.91
Variation (%)	1.00

Maximum location: X=-56.00, Y=-64.00 SAR Peak: 0.23 W/kg

SAR 10g (W/Kg)	0.087327
SAR 1g (W/Kg)	0.137823



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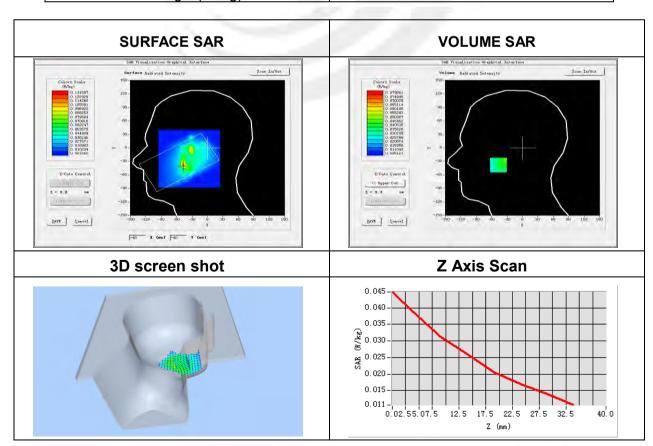


Plot 4: DUT: GSM/WCDMA Smartphone; EUT Model: X6

	•
Test Data	2015-12-02
Ambient Temperature(ℂ)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.83
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Tilt
Band	GSM850
Channels	High
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	848.8
Relative permittivity (real part)	42.27
Conductivity (S/m)	0.91
Variation (%)	4.19

Maximum location: X=-47.00, Y=-38.00 SAR Peak: 0.09 W/kg

	3
SAR 10g (W/Kg)	0.034264
SAR 1g (W/Kg)	0.052277



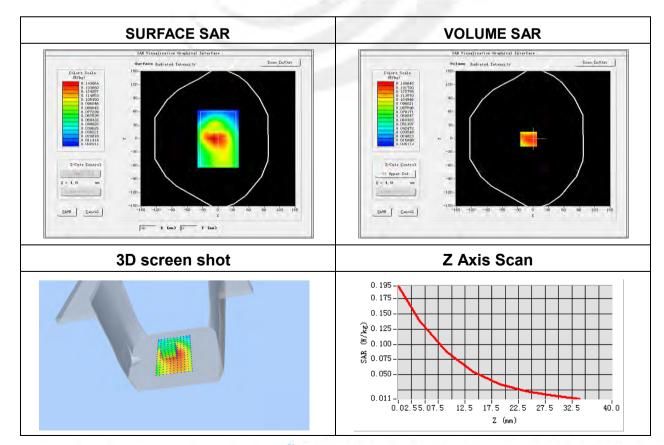


Plot 5: DUT: GSM/WCDMA Smartphone; EUT Model: X6

Test Data	2015-12-02
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	High
Signal	Duty Cycle:2.0 (Crest factor:2.0)
Frequency (MHz)	848.8
Relative permittivity (real part)	55.5
Conductivity (S/m)	0.96
Variation (%)	-2.98

Maximum location: X=-9.00, Y=-1.00 SAR Peak: 0.20 W/kg

SAR 10g (W/Kg)	0.087556
SAR 1g (W/Kg)	0.135379



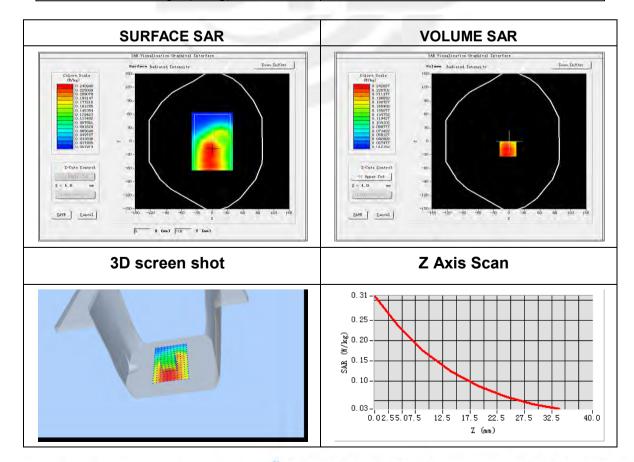


Plot 6: DUT: GSM/WCDMA Smartphone; EUT Model: X6

Test Data	2015-12-02
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 Back
Band	GPRS 850
Channels	High
Signal	Duty Cycle:2.0 (Crest factor:2.0)
Frequency (MHz)	848.8
Relative permittivity (real part)	55.5
Conductivity (S/m)	0.96
Variation (%)	-2.54

Maximum location: X=-2.00, Y=-17.00 SAR Peak: 0.32 W/kg

	0
SAR 10g (W/Kg)	0.164121
SAR 1g (W/Kg)	0.235541



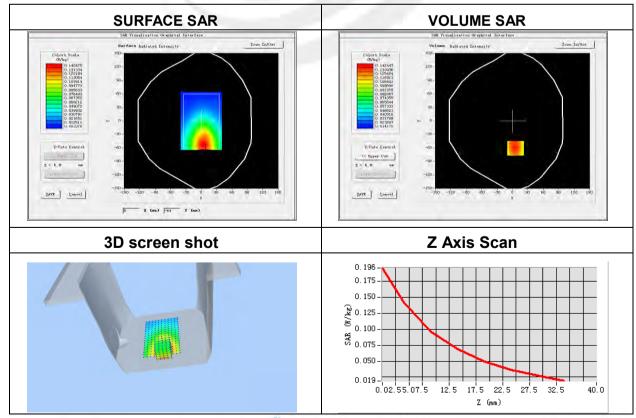


Plot 7: DUT: GSM/WCDMA Smartphone; EUT Model: X6

Test Data	2015-12-02
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 left side
Band	GPRS 850
Channels	High
Signal	Duty Cycle:2.0 (Crest factor:2.0)
Frequency (MHz)	848.8
Relative permittivity (real part)	55.5
Conductivity (S/m)	0.96
Variation (%)	1.22

Maximum location: X=6.00, Y=-61.00 SAR Peak: 0.20 W/kg

SAR 10g (W/Kg)	0.091880
SAR 1g (W/Kg)	0.136413



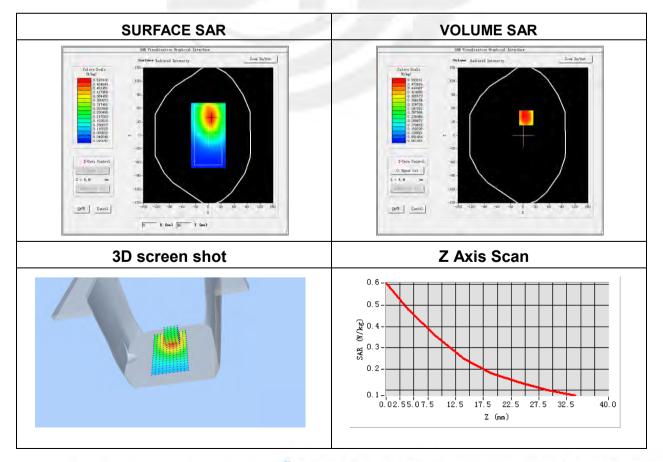


Plot 8: DUT: GSM/WCDMA Smartphone; EUT Model: X6

Test Data	2015-12-02
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	High
Signal	Duty Cycle:2.0 (Crest factor:2.0)
Frequency (MHz)	848.8
Relative permittivity (real part)	55.5
Conductivity (S/m)	0.96
Variation (%)	1.12

Maximum location: X=0.00, Y=-56.00 SAR Peak: 0.14 W/kg

SAR 10g (W/Kg)	0.040795
SAR 1g (W/Kg)	0.069514



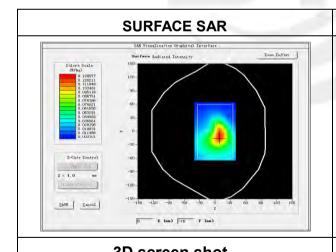


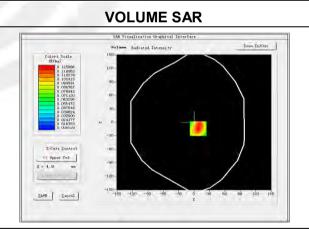
Plot 9: DUT: GSM/WCDMA Smartphone; EUT Model: X6

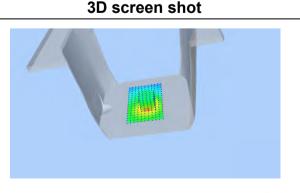
Test Data	2015-12-02
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	5.02
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body bottom side
Band	GPRS 850
Channels	High
Signal	Duty Cycle:2.0 (Crest factor:2.0)
Frequency (MHz)	848.8
Relative permittivity (real part)	55.5
Conductivity (S/m)	0.96
Variation (%)	0.31

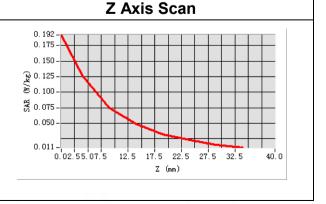
Maximum location: X=8.00, Y=-14.00 SAR Peak: 0.19 W/kg

SAR 10g (W/Kg)	0.072639
SAR 1g (W/Kg)	0.121169









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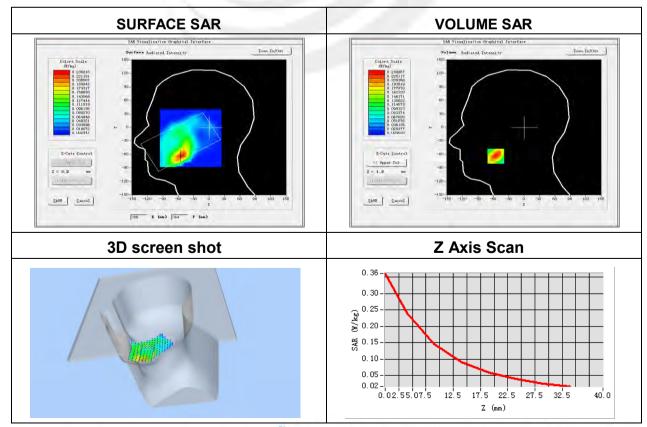


Plot 10: DUT: GSM/WCDMA Smartphone; EUT Model: X6

Test Data	2015-12-02
Ambient Temperature(C)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.71
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,
	Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Cheek
Band	GSM1900
Channels	High
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	1909.8
Relative permittivity (real part)	39.57
Conductivity (S/m)	1.43
Variation (%)	-0.57

Maximum location: X=-55.00, Y=-64.00 SAR Peak: 0.39 W/kg

SAR 10g (W/Kg)	0.129532
SAR 1g (W/Kg)	0.235088



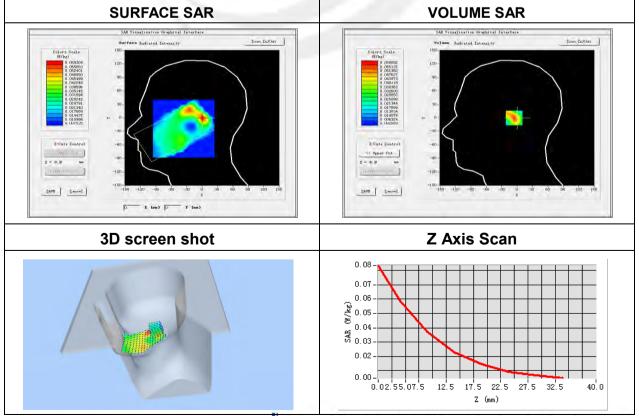


Plot 11: DUT: GSM/WCDMA Smartphone; EUT Model: X6

Test Data	2015-12-02
Ambient Temperature(℃)	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,
Zoomscan	Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Tilt
Band	GSM1900
Channels	High
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	1909.8
Relative permittivity (real part)	39.57
Conductivity (S/m)	1.43
Variation (%)	2.41

Maximum location: X=1.00, Y=0.00 SAR Peak: 0.08 W/kg

SAR 10g (W/Kg)	0.030807
SAR 1g (W/Kg)	0.054960



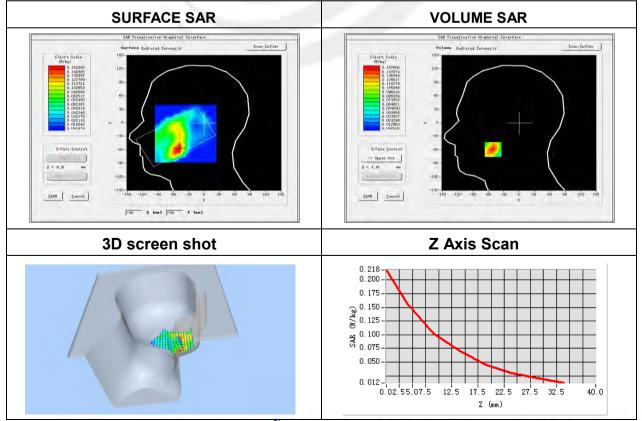


Plot 12: DUT: GSM/WCDMA Smartphone; EUT Model: X6

Test Data	2015-12-02
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
ZoomSoon	5x5x7,dx=8mm dy=8mm dz=5mm,
ZoomScan	Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Cheek
Band	GSM1900
Channels	High
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	1909.8
Relative permittivity (real part)	39.57
Conductivity (S/m)	1.43
Variation (%)	3.75

Maximum location: X=-51.00, Y=-59.00 SAR Peak: 0.22 W/kg

SAR 10g (W/Kg)	0.089470
SAR 1a (W/Ka)	0 149698



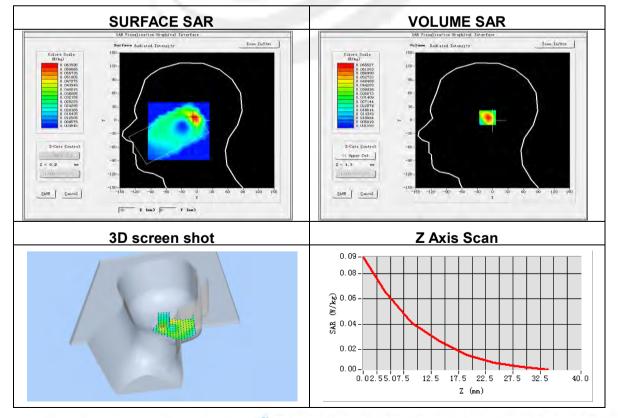


Plot 13: DUT: GSM/WCDMA Smartphone; EUT Model: X6

Test Data	2015-12-02
Ambient Temperature(℃)	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
ZoomSoon	5x5x7,dx=8mm dy=8mm dz=5mm,
ZoomScan	Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Tilt
Band	GSM1900
Channels	High
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	1909.8
Relative permittivity (real part)	39.57
Conductivity (S/m)	1.43
Variation (%)	-2.61

Maximum location: X=-5.00, Y=-6.00 SAR Peak: 0.10W/kg

SAR 10g (W/Kg)	0.034591
SAR 1g (W/Kg)	0.062199





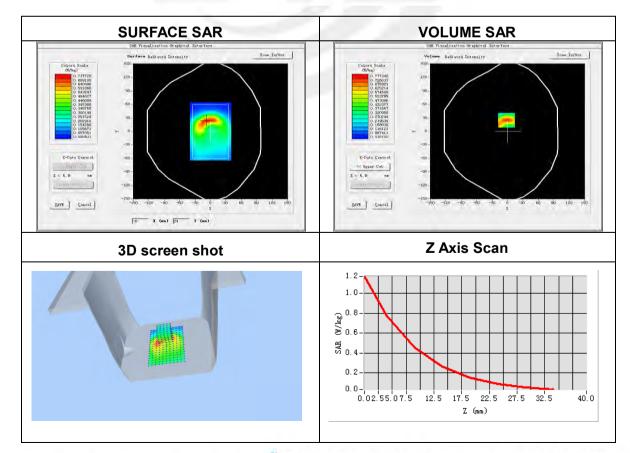
Plot 14: DUT: GSM/WCDMA Smartphone; EUT Model: X6

Test Data	2015-12-02
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,
Zoomscan	Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body front
Band	GPRS 1900
Channels	High
Signal	Duty Cycle:2.0 (Crest factor:2.0)
Frequency (MHz)	1909.8
Relative permittivity (real part)	51.68
Conductivity (S/m)	1.51
Variation (%)	2.87

Maximum location: X=-2.00, Y=25.00

SAR Peak: 1.16 W/kg

SAR 10g (W/Kg)	0.382684
SAR 1g (W/Kg)	0.713804



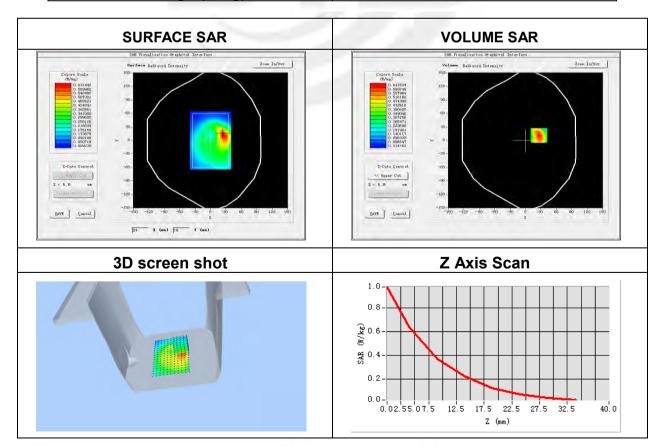


Plot 15: DUT: GSM/WCDMA Smartphone; EUT Model: X6

Test Data	2015-12-02
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 Behind
Band	GPRS 1900
Channels	High
Signal	Duty Cycle:2.0 (Crest factor:2.0)
Frequency (MHz)	1909.8
Relative permittivity (real part)	51.68
Conductivity (S/m)	1.51
Variation (%)	1.35

Maximum location: X=26.00, Y=11.00 SAR Peak: 0.99 W/kg

SAR 10g (W/Kg)	0.330729
SAR 1g (W/Kg)	0.603783



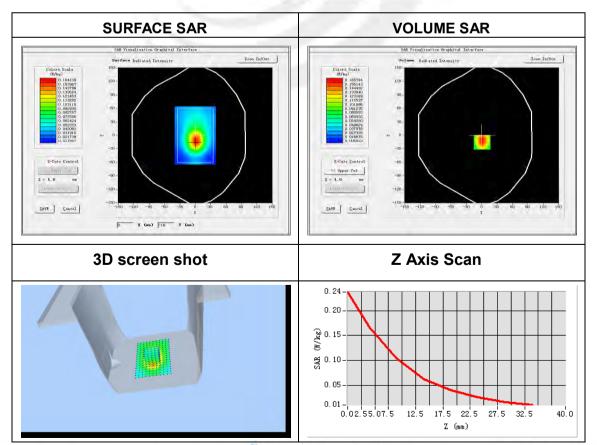


Plot 16: DUT: GSM/WCDMA Smartphone; EUT Model: X6

	,
Test Data	2015-12-02
Ambient Temperature(℃)	22.70
Liquid Temperature(で)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body left side
Band	GPRS 1900
Channels	High
Signal	Duty Cycle:2.0 (Crest factor:2.0)
Frequency (MHz)	1909.8
Relative permittivity (real part)	51.68
Conductivity (S/m)	1.51
Variation (%)	-1.27

Maximum location: X=1.00, Y=-15.00 SAR Peak: 0.25 W/kg

SAR 10g (W/Kg)	0.091508
SAR 1g (W/Kg)	0.157871



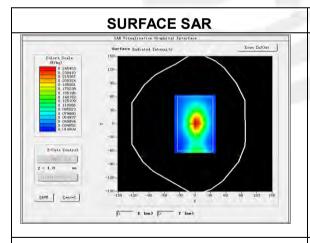


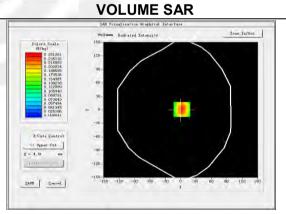
Plot 17: DUT: GSM/WCDMA Smartphone; EUT Model: X6

Test Data	2015-12-02
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body right side
Band	GPRS 1900
Channels	High
Signal	Duty Cycle:2.0 (Crest factor:2.0)
Frequency (MHz)	1909.8
Relative permittivity (real part)	51.68
Conductivity (S/m)	1.51
Variation (%)	0.60

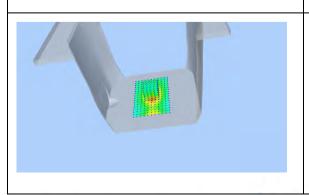
Maximum location: X=2.00, Y=1.00 SAR Peak: 0.38 W/kg

27 ii 11 3 3 ii 11 11 13 1 1 1 1 1 1 1 1 1	
SAR 10g (W/Kg)	0.135692
SAR 1a (W/Ka)	0.238079

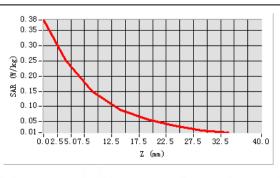




3D screen shot



Z Axis Scan



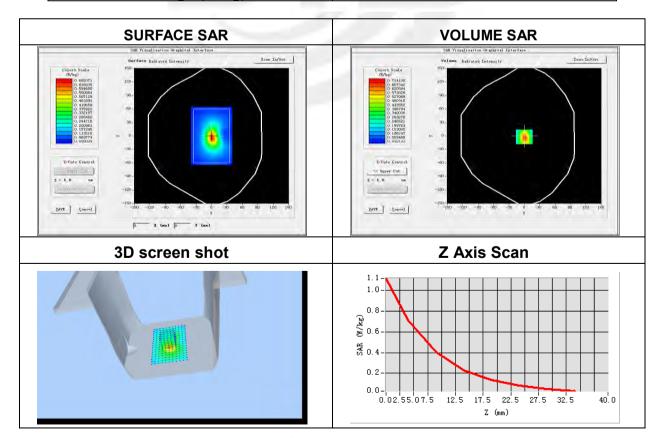


Plot 18: DUT: GSM/WCDMA Smartphone; EUT Model: X6

Test Data	2015-12-02
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	GPRS 1900
Channels	High
Signal	Duty Cycle:2.0 (Crest factor:2.0)
Frequency (MHz)	1909.8
Relative permittivity (real part)	51.68
Conductivity (S/m)	1.51
Variation (%)	0.65

Maximum location: X=0.00, Y=-2.00 SAR Peak: 1.14 W/kg

SAR 10g (W/Kg)	0.334951
SAR 1g (W/Kg)	0.668743





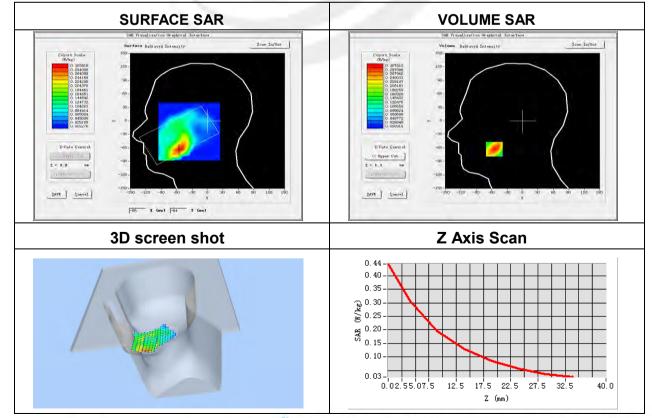
Plot 19: DUT: GSM/WCDMA Smartphone; EUT Model: X6

Test Data	2015-12-02
Ambient Temperature(C)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.71
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,
	Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Cheek
Band	WCDMA II
Channels	Low
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1852.4
Relative permittivity (real part)	40.00
Conductivity (S/m)	1.40
Variation (%)	1.53

Maximum location: X=-55.00, Y=-63.00

SAR Peak: 0.45 W/kg

	3
SAR 10g (W/Kg)	0.173648
SAR 1a (W/Ka)	0.296881



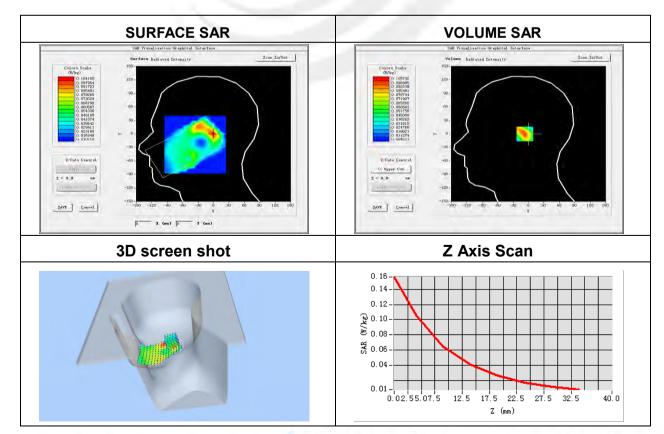


Plot 20: DUT: GSM/WCDMA Smartphone; EUT Model: X6

Test Data	2015-12-02
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	Low
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1852.4
Relative permittivity (real part)	40.00
Conductivity (S/m)	1.40
Variation (%)	1.24

Maximum location: X=-1.00, Y=0.00 SAR Peak: 0.16 W/kg

SAR 10g (W/Kg)	0.055769
SAR 1a (W/Ka)	0.099482





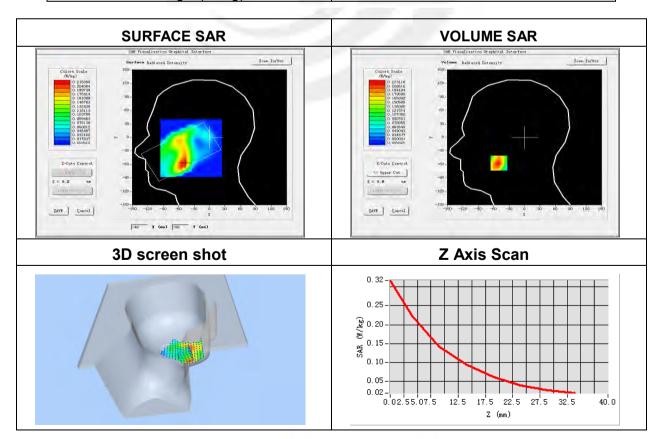
Plot 21: DUT: GSM/WCDMA Smartphone; EUT Model: X6

Test Data	2015-12-02
Ambient Temperature(C)	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	Low
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1852.4
Relative permittivity (real part)	40.00
Conductivity (S/m)	1.40
Variation (%)	0.19

Maximum location: X=-50.00, Y=-57.00

SAR Peak: 0.32 W/kg

SAR 10g (W/Kg)	0.127168
SAR 1g (W/Kg)	0.216097





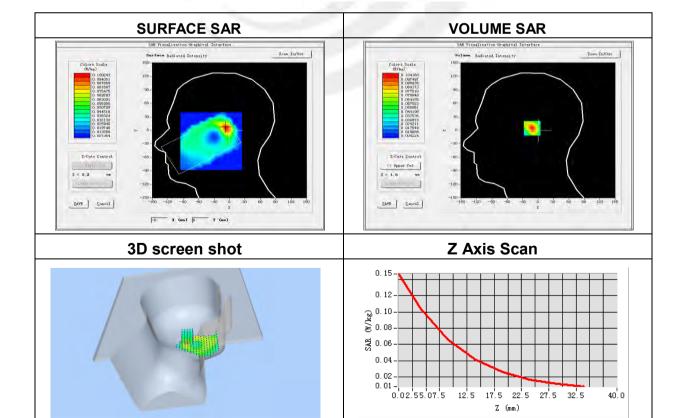
Plot 22: DUT: GSM/WCDMA Smartphone; EUT Model: X6

2015-12-02
22.70
22.30
SN 17/14 EP221
4.71
dx=8mm dy=8mm, h= 5.00 mm
5x5x7,dx=8mm dy=8mm dz=5mm,
Complete/ndx=8mm dy=8mm, h= 5.00 mm
Left head
Tilt
WCDMA II
Low
WCDMA (Crest factor: 1.0)
1852.4
40.00
1.40
-0.17

Maximum location: X=-6.00, Y=5.00

SAR Peak: 0.15 W/kg

SAR 10g (W/Kg)	0.055343
SAR 1g (W/Kg)	0.097809



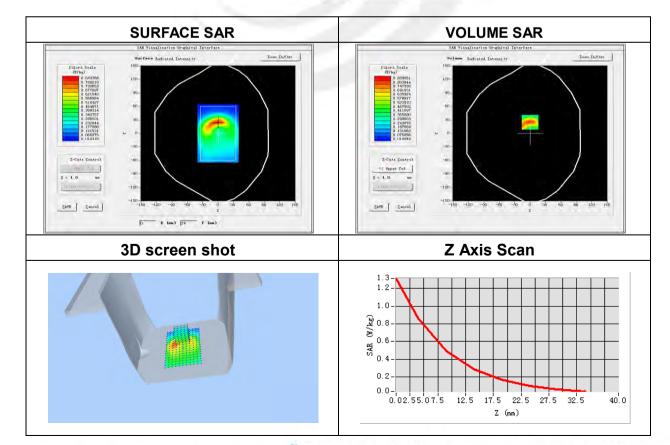


Plot 23: DUT: GSM/WCDMA Smartphone; EUT Model: X6

Test Data	2015-12-02
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,
	Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Front
Band	WCDMA II
Channels	Low
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1852.4
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	-0.66

Maximum location: X=0.00, Y=25.00 SAR Peak: 1.31 W/kg

SAR 10g (W/Kg)	0.425848
SAR 1a (W/Ka)	0.796804



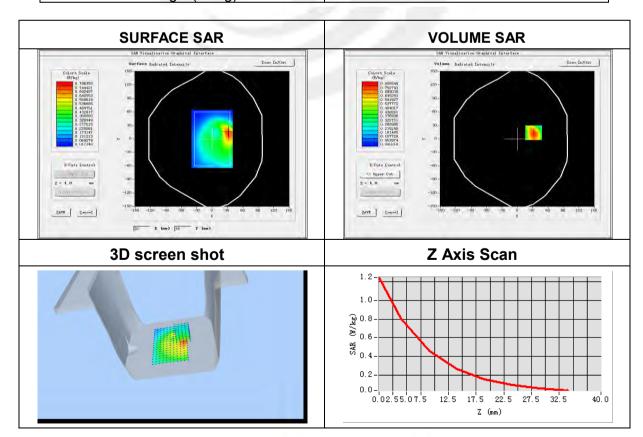


Plot 24: DUT: GSM/WCDMA Smartphone; EUT Model: X6

2015-12-02
22.70
22.30
SN 17/14 EP221
4.85
dx=8mm dy=8mm, h= 5.00 mm
5x5x7,dx=8mm dy=8mm dz=5mm,
Complete/ndx=8mm dy=8mm, h= 5.00 mm
Validation plane
Body back side
WCDMA II
Low
WCDMA (Crest factor: 1.0)
1852.4
39.71
1.40
-1.86

Maximum location: X=32.00, Y=14.00 SAR Peak: 1.24 W/kg

	3
SAR 10g (W/Kg)	0.421070
SAR 1g (W/Kg)	0.771102



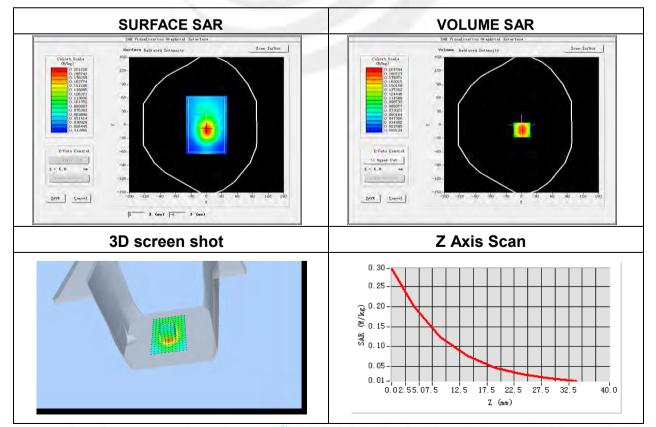


Plot 25: DUT: GSM/WCDMA Smartphone; EUT Model: X6

Test Data	2015-12-02
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 left side
Band	WCDMA II
Channels	Low
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1852.4
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	-0.36

Maximum location: X=1.00, Y=-11.00 SAR Peak: 0.29 W/kg

SAR 10g (W/Kg)	0.112769
SAR 1g (W/Kg)	0.193962



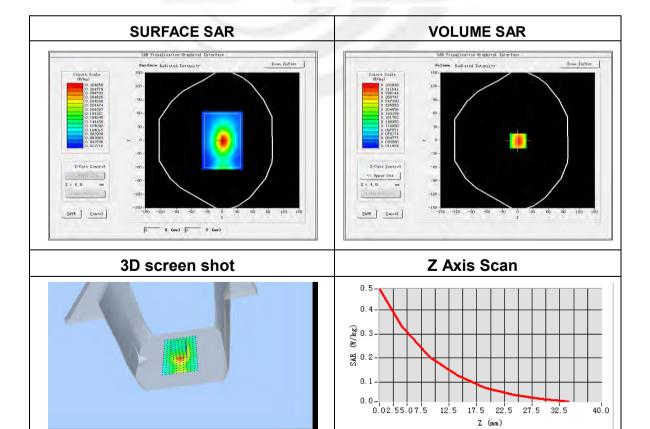


Plot 26: DUT: GSM/WCDMA Smartphone; EUT Model: X6

Test Data	2015-12-02
Ambient Temperature(℃)	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	WCDMA II
Channels	Low
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1852.4
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	2.45

Maximum location: X=1.00, Y=1.00 SAR Peak:0.49 W/kg

51 H 1 T 5 5 H 1 T 1 T 1 T 1 T 1 T 1 T 1 T 1 T 1 T 1	
SAR 10g (W/Kg)	0.186624
SAR 1g (W/Kg)	0.320619



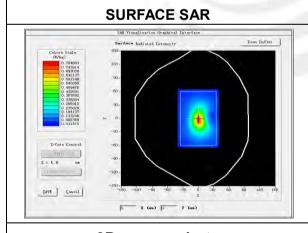


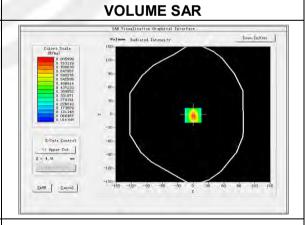
Plot 27: DUT: GSM/WCDMA Smartphone; EUT Model: X6

Test Data	2015-12-02
Ambient Temperature(C)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,
	Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Bottom side
Band	WCDMA II
Channels	Low
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1852.4
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	-0.37

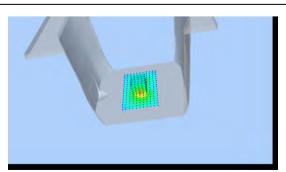
Maximum location: X=0.00, Y=-2.00 SAR Peak: 1.23 W/kg

SAR 10g (W/Kg)	0.385148
SAR 1g (W/Kg)	0.753844

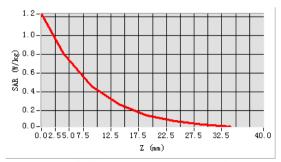




3D screen shot



Z Axis Scan



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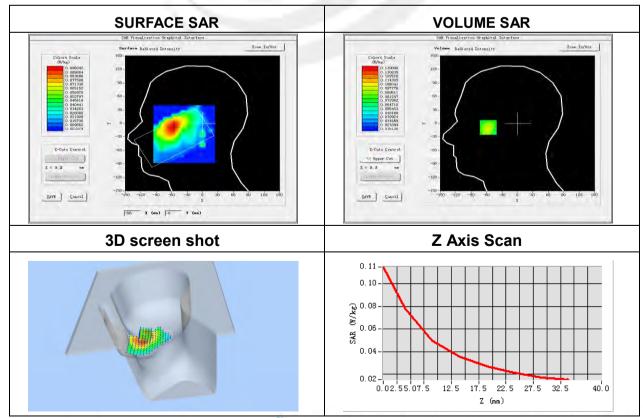
Plot 28: DUT: GSM/WCDMA Smartphone; EUT Model: X6

	o, = o : o ; to
Test Data	2015-12-02
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	High
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	846.6
Relative permittivity (real part)	42.27
Conductivity (S/m)	0.91
Variation (%)	0.70

Maximum location: X=-57.00, Y=-6.00

SAR Peak: 0.20 W/kg

SAR 10g (W/Kg)	0.081336
SAR 1g (W/Kg)	0.115962





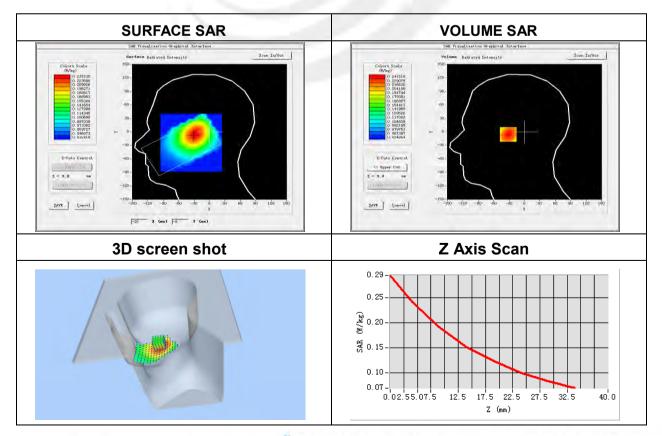
Plot 29: DUT: GSM/WCDMA Smartphone; EUT Model: X6

Test Data	2015-12-02
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.83
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,
	Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Tilt
Band	WCDMA V
Channels	High
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	846.6
Relative permittivity (real part)	42.27
Conductivity (S/m)	0.91
Variation (%)	-0.31

Maximum location: X=-29.00, Y=-5.00

SAR Peak: 0.29 W/kg

SAR 10g (W/Kg)	0.177544
SAR 1g (W/Kg)	0.234173



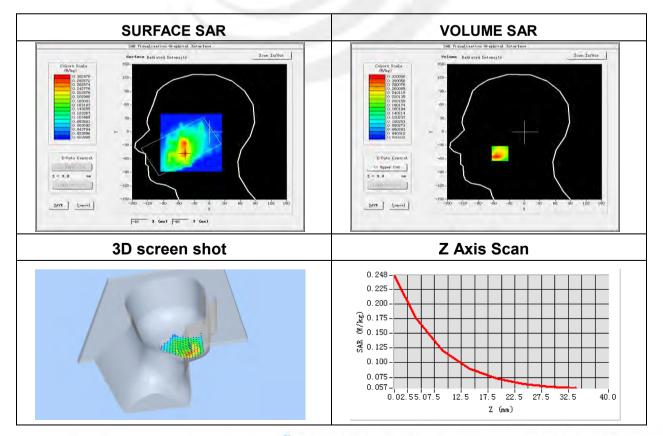


Plot 30: DUT: GSM/WCDMA Smartphone; EUT Model: X6

Test Data	2015-12-02
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	4.83
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,
	Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Cheek
Band	WCDMA V
Channels	High
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	846.6
Relative permittivity (real part)	42.27
Conductivity (S/m)	0.91
Variation (%)	-1.07

Maximum location: X=-48.00, Y=-48.00 SAR Peak: 0.50 W/kg

SAR 10g (W/Kg)	0.191866
SAR 1g (W/Kg)	0.289853



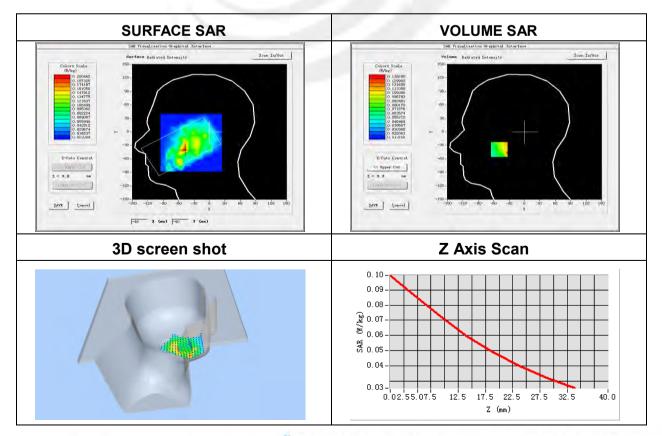


Plot 31: DUT: GSM/WCDMA Smartphone; EUT Model: X6

Test Data	2015-12-02
Ambient Temperature(℃)	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	WCDMA V
Channels	High
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	846.6
Relative permittivity (real part)	42.27
Conductivity (S/m)	0.91
Variation (%)	-0.59

Maximum location: X=-49.00, Y=-39.00 SAR Peak: 0.18 W/kg

SAR 10g (W/Kg)	0.075333
SAR 1g (W/Kg)	0.107605



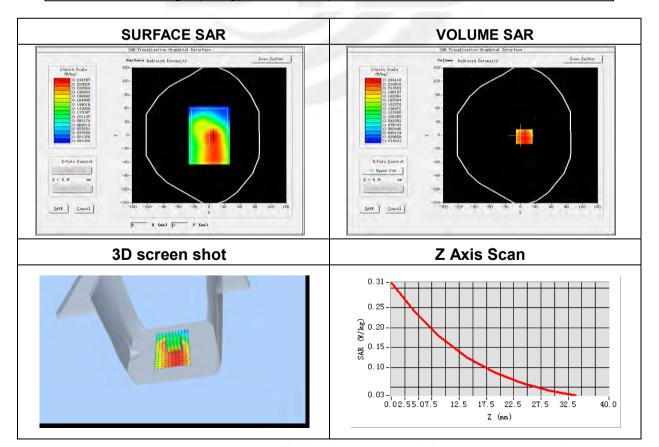


Plot 32: DUT: GSM/WCDMA Smartphone; EUT Model: X6

Test Data	2015-12-02
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	High
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	846.6
Relative permittivity (real part)	55.5
Conductivity (S/m)	0.96
Variation (%)	-1.03

Maximum location: X=7.00, Y=-3.00 SAR Peak: 0.32 W/kg

SAR 10g (W/Kg)	0.167076
SAR 1g (W/Kg)	0.237597





Plot 33: DUT: GSM/WCDMA Smartphone; EUT Model: X6

Test Data	2015-12-02
Ambient Temperature(℃)	22.70
Liquid Temperature(℃)	22.30
Probe	SN 17/14 EP221
ConvF	5.02
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,
	Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	WCDMA V
Channels	High
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	846.6
Relative permittivity (real part)	55.5
Conductivity (S/m)	0.96
Variation (%)	-0.11

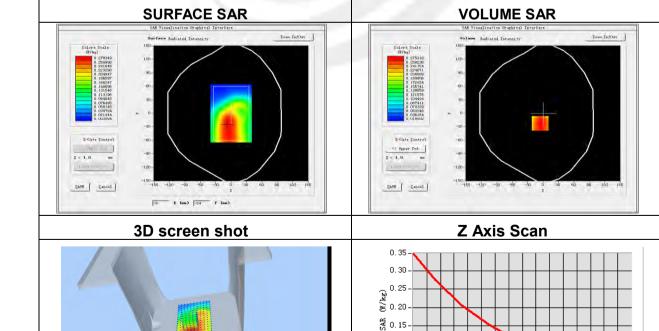
Maximum location: X=-6.00, Y=-22.00

SAR Peak: 0.36 W/kg

0.10-

0.02.55.07.5

SAR 10g (W/Kg)	0.192994
SAR 1g (W/Kg)	0.269117



Z (mm)

12.5 17.5 22.5

27.5 32.5

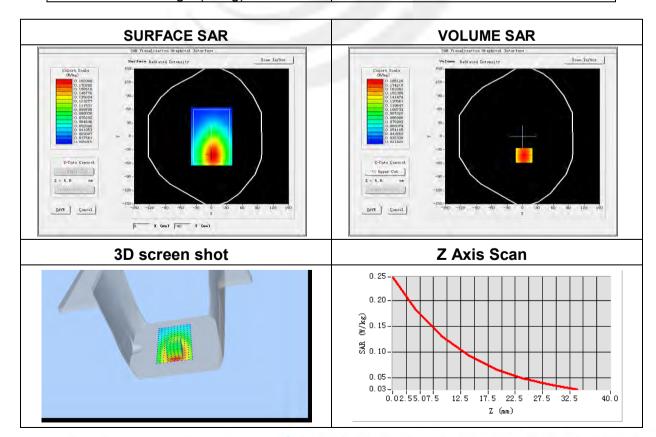


Plot 34: DUT: GSM/WCDMA Smartphone; EUT Model: X6

Test Data	2015-12-02
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 left side
Band	WCDMA V
Channels	High
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	846.6
Relative permittivity (real part)	55.5
Conductivity (S/m)	0.96
Variation (%)	-0.80

Maximum location: X=3.00, Y=-42.00 SAR Peak: 0.25 W/kg

SAR 10g (W/Kg)	0.122627
SAR 1g (W/Kg)	0.179652



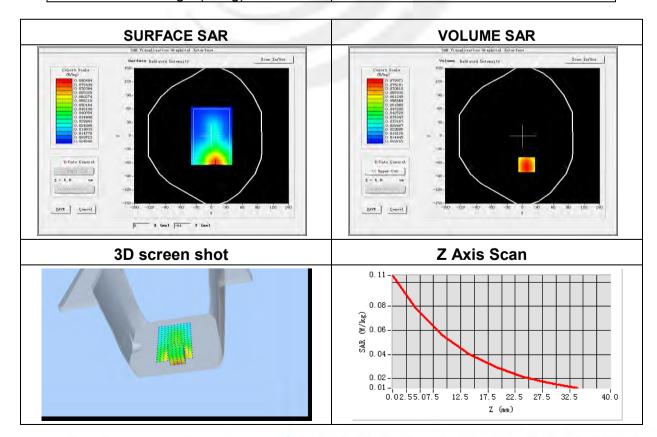


Plot 35: DUT: GSM/WCDMA Smartphone; EUT Model: X6

2015-12-02
22.70
22.30
SN 17/14 EP221
5.02
dx=8mm dy=8mm, h= 5.00 mm
5x5x7,dx=8mm dy=8mm dz=5mm,
Complete/ndx=8mm dy=8mm, h= 5.00 mm
Validation plane
Body right side
WCDMA V
High
WCDMA (Crest factor: 1.0)
846.6
55.5
0.96
-0.98

Maximum location: X=8.00, Y=-64.00 SAR Peak: 0.11 W/kg

	<u> </u>
SAR 10g (W/Kg)	0.053360
SAR 1g (W/Kg)	0.077954



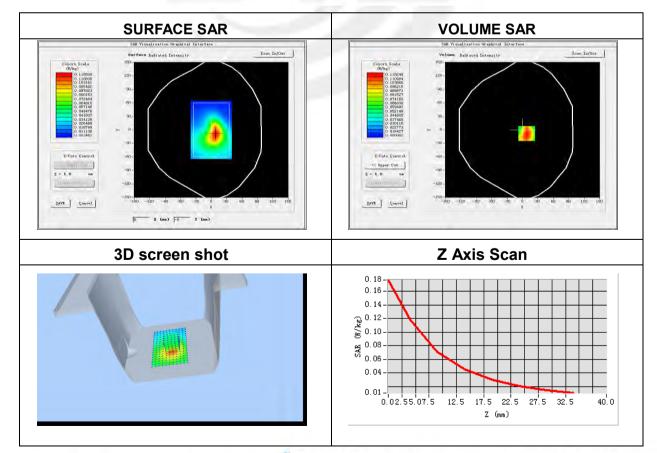


Plot 36DUT: GSM/WCDMA Smartphone; EUT Model: X6

Test Data	2015-12-02
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	High
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	846.6
Relative permittivity (real part)	55.5
Conductivity (S/m)	0.96
Variation (%)	-0.12

Maximum location: X=800, Y=-80 SAR Peak: 0.18/kg

SAR 10g (W/Kg) 0.067456 SAR 1g (W/Kg) 0.114067



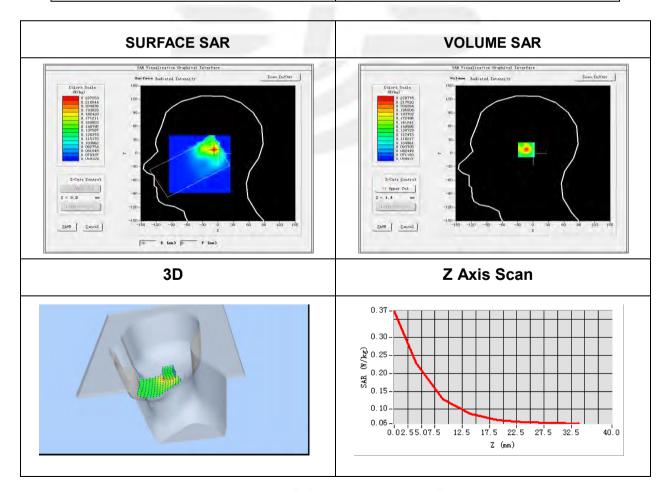


Plot 37 DUT: GSM/WCDMA Smartphone; EUT Model: X6

• •	
Test Data	2015-12-02
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	Low
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2412
Relative permittivity (real part)	37.8
Conductivity (S/m)	1.86
Variation (%)	0.96

Maximum location: X=-800, Y=800 SAR Peak: 0.37/kg

SAR 10g (W/Kg)	0.125711
SAR 1g (W/Kg)	0.214000



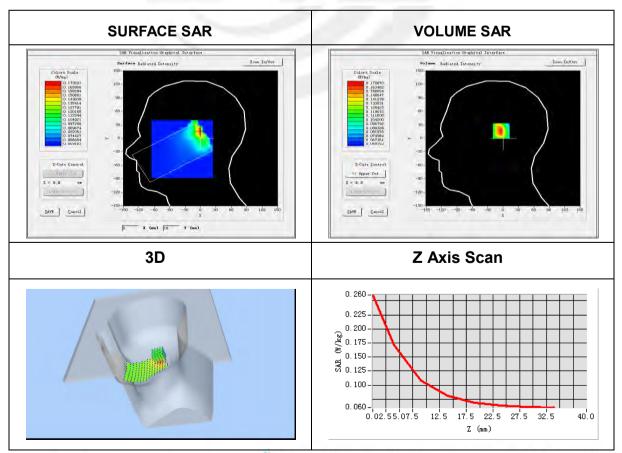


Plot 38DUT: GSM/WCDMA Smartphone; EUT Model: X6

Test Data	2015-12-02
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	Low
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2412
Relative permittivity (real part)	37.8
Conductivity (S/m)	1.86
Variation (%)	-0.06

Maximum location: X=200, Y=170 SAR Peak: 0.26/kg

SAR 10g (W/Kg)	0.108095
SAR 1g (W/Kg)	0.166066



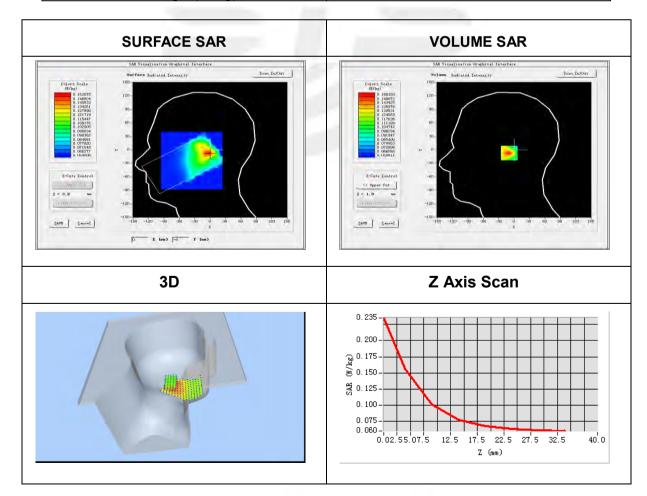


Plot 39 DUT: GSM/WCDMA Smartphone; EUT Model: X6

Test Data	2015-12-02
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	Low
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2412
Relative permittivity (real part)	37.8
Conductivity (S/m)	1.86
Variation (%)	-1.00

Maximum location: X=-2.00, Y=-7.00 SAR Peak: 0.23 W/kg

SAR 10g (W/Kg)	0.102110
SAR 1g (W/Kg)	0.149588



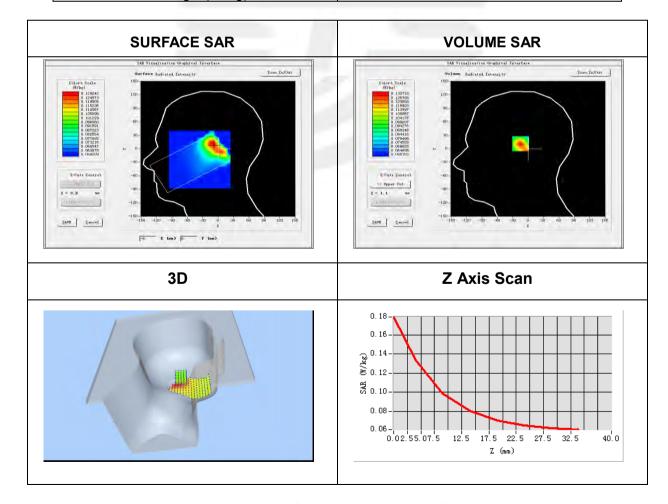


Plot 40 DUT: GSM/WCDMA Smartphone; EUT Model: X6

Test Data	2015-12-02
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	Low
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2412
Relative permittivity (real part)	37.8
Conductivity (S/m)	1.86
Variation (%)	-0.08

Maximum location: X=-11.00, Y=12.00 SAR Peak: 0.18 W/kg

SAR 10g (W/Kg)	0.094720
G/ (it 10g (W/itg)	0.004120
SAR 1g (W/Kg)	0.128943
SAR 1g (W/Kg)	0.126943



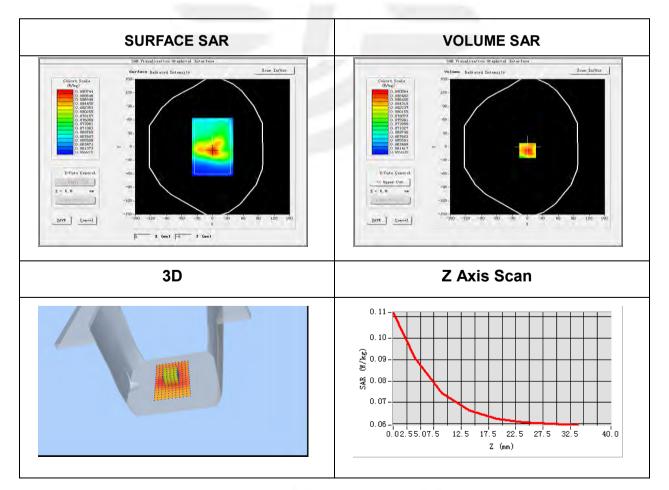


Plot 41 DUT: GSM/WCDMA Smartphone; EUT Model: X6

Test Data	2015-12-02
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	Low
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2412
Relative permittivity (real part)	51.2
Conductivity (S/m)	1.95
Variation (%)	-0.35

Maximum location: X=0.00, Y=-8.00 SAR Peak: 0.11 W/kg

SAR 10g (W/Kg)	0.074267
SAR 1g (W/Kg)	0.089307



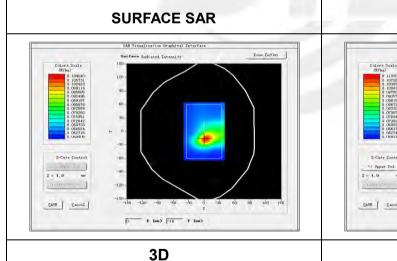


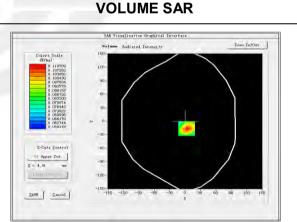
Plot 42 DUT: GSM/WCDMA Smartphone; EUT Model: X6

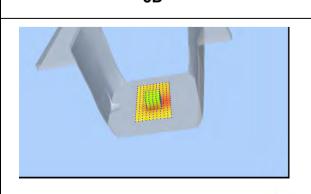
Test Data	2015-12-02
Probe	SN 17/14 EP221
ConvF	4.25
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back side
Band	IEEE 802.11b ISM
Channels	Low
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2412
Relative permittivity (real part)	51.2
Conductivity (S/m)	1.95
Variation (%)	-0.35

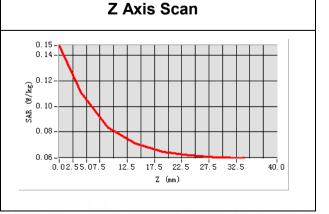
Maximum location: X=3.00, Y=-16.00 SAR Peak: 0.15 W/kg

SAR 10g (W/Kg)	0.082666
SAR 1g (W/Kg)	0.108010









1/F., Building B., Zhuoke Science Park, No.190, Chongqing Road, Fuyong Street, Bao'an District, Shenzhen, Guangdong, China Tel: 0755-36886288 Fax: 0755-36886277 Http://www.stsapp.com E-mail: sts@stsapp.com

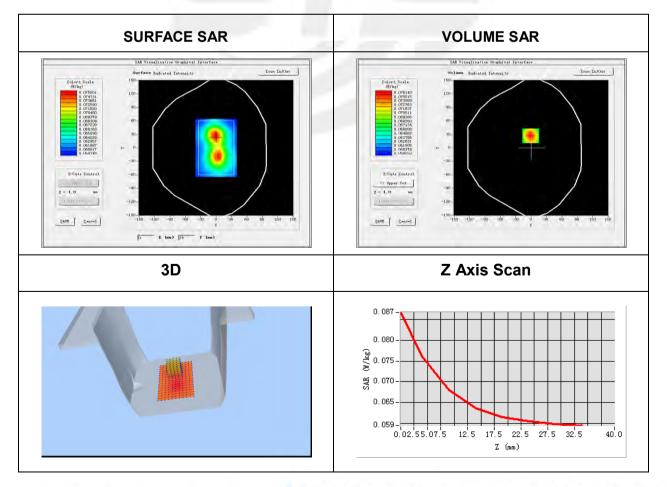


Plot 43 DUT: GSM/WCDMA Smartphone; EUT Model: X6

Test Data	2015-12-02
Probe	SN 17/14 EP221
ConvF	4.25
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body left side
Band	IEEE 802.11b ISM
Channels	Low
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2412
Relative permittivity (real part)	51.2
Conductivity (S/m)	1.95
Variation (%)	-0.16

Maximum location: X=-1.00, Y=27.00 SAR Peak: 0.09 W/kg

SAR 10g (W/Kg)	0.067549
SAR 1g (W/Kg)	0.075361



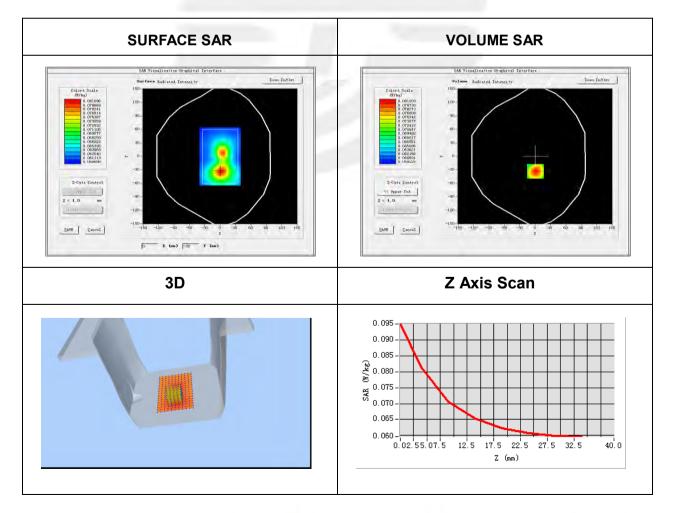


Plot 44 DUT: GSM/WCDMA Smartphone; EUT Model: X6

,) mm

Maximum location: X=1.00, Y=-33.00 SAR Peak: 0.09 W/kg

SAR 10g (W/Kg)	0.070211
SAR 1g (W/Kg)	0.080276





Appendix C. Probe Calibration And Dipole Calibration Report

Refer the appendix Calibration Report.

*****END OF THE REPORT***