



FCC SAR TEST REPORT

Report No: STS1503070H01

Issued for

Cellacom incorporation

20955 pathfinder road, ste 200, diamond bar, ca 91765, USA

Product Name: GSM feature phone **Brand Name: Cellacom** Model No.: T160 Series Model: T160x FCC ID: 2AC343396993T160 ANSI/IEEE Std. C95.1 Test Standard: FCC 47 CFR Part 2 (2.1093) IEEE 1528: 2013 Head: 0.724 W/kg Max. SAR(1g): Body: 0.891 W/kg

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Test Report Certification

Applicant's name: Cellacom incorporation

Address 20955 pathfinder road, ste 200, diamond bar, ca 91765, USA

Manufacture's Name.....: Shenzhen Joinhold Communication Technology Ltd.

Address: Unit 3, Bldg. D2, TCL International E City, 1001 Zhongshanyuan

Park Rd., Nanshan, Shenzhen, China

Product description

Product name: GSM feature phone

Trademark: Cellacom

Model and/or type reference : T160 Serial Model : T160x

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)

Technical Manager:

Authorized Signatory:

(John Zou)

1000

(Bovey Yang)







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1. General Information

1.1 EUT Description

Equipment	GSM feature phone				
Brand Name	Cellacom				
Model No.	T160				
Serial Model	T160x				
FCC ID	2AC343396993T160				
Model Difference	are different	accessories color , series model names			
Adapter	Input: AC100-240V, 200mA, 50/60 H Output: DC 5V,350mA	lz			
	Rated Voltage: 3.7V				
Battery	Charge Limit: 4.2V				
	Capacity: 2000mAh				
Hardware Version	N/A				
Software Version	N/A				
	GSM 850: 824.2 ~ 848.8 MHz				
Frequency Range	PCS1900: 1850.2 ~ 1909.8 MHz				
	Bluetooth: 2402~2480MHz				
Transmit	GSM 850: 32.05dBm				
Power(MAX):	GSM 1900: 25.12dBm				
Fower(IVIAX).	Bluetooth: -2.561dBm				
May Departed	Head:	Body:			
Max. Reported	GSM 850: 0.508 W/kg	GSM 850: 0.891 W/kg			
SAR(1g):	GSM 1900: 0.724 W/kg	GSM 1900: 0.632 W/kg			
On a ratio a Mada	GSM: GSM Voice, GPRS,EGPRS C	lass 10			
Operating Mode:	Bluetooth: V2.1 +EDR(GFSK+ π /4D	QPSK+8DPSK)			
Antenna	GSM: PIFA Antenna				
Specification:	Bluetooth: Dipole Antenna				
SIM Card	Support dual-SIM, dual standby, the multiple SIM card with two lines cannot transmitting at the same time				
Hotspot Mode:	Not 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 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	Frequency Allocations and Radio Treaty Matters; G 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 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

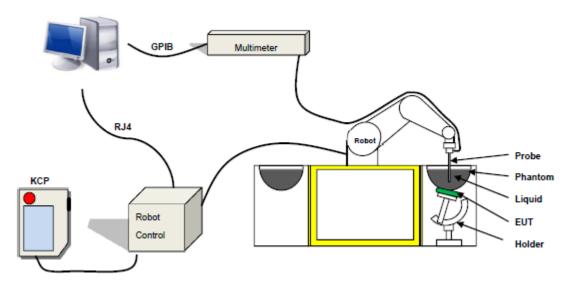
$$SAR = \frac{\sigma E^2}{\rho}$$

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 suface 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 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. 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: Mar.26, 2015 Ambient condition: Temperature 22.7°C Relative humidity: 49%

Head Simulating Liquid		Parameters	Target	Measured	Deviation[%]	Limited[%]	
Frequency	Temp. [°C]						
835 MHz	22.20	Permitivity:	41.5	40.98	-1.25	±5	
835 MHz 22.30	22.30	Conductivity:	0.9	0.87	-3.33	±5	
1000 MHz	22.30	Permitivity:	40	40.12	0.30	± 5	
1900 MHz		Conductivity:	1.4	1.401	0.07	±5	

Body Simulating Liquid			- .	., .	5	1 ' '	
Frequency	Temp. [°C]	Parameters	Target	Measured	Deviation[%]	Limited[%]	
835 MHz	22.30	Permitivity:	55.2	55.1	-0.18	± 5	
033 WII 12	22.00	Conductivity:	0.97	0.95	-2.06	± 5	
1900 MHz	1900 MHz 22.30	Permitivity:	53.3	52.34	-1.80	± 5	
1900 WH2	22.00	Conductivity:	1.52	1.51	-0.66	± 5	

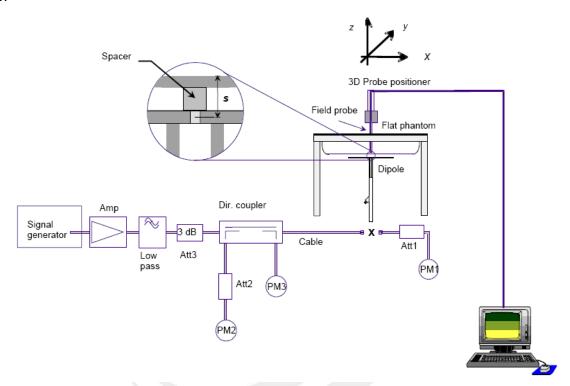


5. SAR System Validation

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	9.56	-1.99	2015-3-26
835 Body	100	0.968	9.68	9.56	1.26	2015-3-26
1900 Head	100	3.84	38.4	39.70	-3.27	2015-3-26
1900 Body	100	4.142	41.42	39.70	4.33	2015-3-26

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.



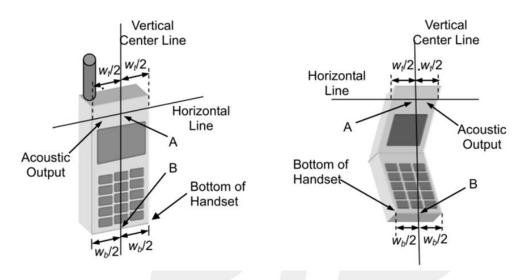


7. EUT Test Position

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

7.1 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

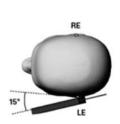
- (1)To position the device in the "cheek" position described above.
- (2) While maintaining the device in the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until with the ear is lost.







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Body-worn Position Conditions

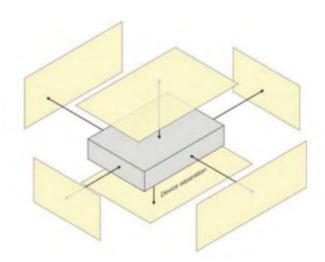
- (1) To position the EUT parallel to the phantom surface.
- (2) To adjust the EUT parallel to the flat phantom.
- (3) To adjust the distance between the EUT surface and the flat phantom to 5mm.





7.2 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).





8. 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.

approx	ximately the 95% c	confidence	level using	a coverag	e factor of	K=2.	Т	1	1
NO	Source	Tol(%)	Prob. Dist.	Div. k	ci (1g)	ci (10g)	1gUi	10gUi	Veff
			Mea	surement Sys	tem				
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	∞
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	∞
5	Linearity	4.7	R	√3	1	1	2.71	2.71	8
6	System Detection limits	1.0	R	√3	1	1	0.58	0.58	8
7	Probe modulation response uncertainty	0	N	1	1	1	0	0	80
8	Readout electronics	0.5	N	1	1	1	0.50	0.50	80
9	Response time	0	R	√3	1	1	0	0	80
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	8
12	Ambient reflections	3.0	R	√3	1	1	1.73	1.73	80
13	Probe positioner mech. restrictions	1.4	R	√3	1	1	0.81	0.81	80
14	Probe positioning with respect to phantom shell	1.4	R	√3	1	1	0.81	0.81	80
15	Max.SAR evaluation	1.0	R	√3	1	1	0.6	0.6	∞



Test sample related 11 16 2.6 Ν 1 1 1 2.6 2.6 Device positioning 7 17 3 Ν 1 3.0 Device holder 1 1 3.0 Drift of output √3 18 5.0 R 1 1 2.89 2.89 power Phantom and set-up Phantom √3 19 4.0 R 1 1 2.31 2.31 uncertainty Uncertainty in SAR correction for 20 2.0 1 0.84 2 deviation(in Ν 1 1.68 permittivity and conductivity) Liquid conductivity 2 21 Ν 1 1 0.84 2.00 1.68 ∞ (target) Liquid conductivity 22 . (temperature 2.5 1 0.78 0.71 1.95 1.78 5 uncertainty) Liquid conductivity 23 4 Ν 1 0.23 0.26 0.92 1.04 5 (meas) Liquid Permittivity 24 2.5 Ν 1 0.78 0.71 1.95 1.78 ∞ (target) Liquid conductivity 1 0.71 25 2.5 Ν 0.78 1.95 1.78 5 (temperature uncertainty) Liquid Permittivity ∞ 26 5.0 Ν 1 0.23 0.26 1.30 1.15 (meas) $U_{C} = \sqrt{\sum_{i=1}^{n} C_{i}^{2} U_{i}^{2}}$ Combined standard RSS 10.63% 10.54% Expanded uncertainty U = k $U_{\scriptscriptstyle C}$,k=2 21.26% 21.08%

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(P=95%)



9. 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)	31.68	31.68	32.05	23.73	24.26	25.12		
GPRS (GMSK, 1-Slot)	31.66	31.67	32.04	23.24	23.79	24.91		
GPRS (GMSK, 2-Slot)	30.66	30.51	30.93	22.69	23.23	24.11		
GPRS (GMSK, 3-Slot)	28.51	28.33	28.86	20.60	21.11	22.05		
GPRS (GMSK, 4-Slot)	27.41	27.18	27.77	19.47	19.99	20.90		
EGPRS(8PSK, 1-Slot)	31.55	31.58	31.98	23.62	23.11	24.62		
EGPRS(8PSK, 2-Slot)	30.49	30.49	30.86	22.51	21.96	23.49		
EGPRS(8PSK, 3-Slot)	28.37	28.37	28.73	20.41	19.92	21.42		
EGPRS(8PSK, 4-Slot)	27.23	27.32	26.67	19.29	18.87	20.38		

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)	22.68	22.68	23.05	14.73	15.26	16.12	
GPRS (GMSK, 1-Slot)	22.66	22.67	23.04	14.24	14.79	15.91	
GPRS (GMSK, 2-Slot)	24.66	24.51	24.93	16.69	17.23	18.11	
GPRS (GMSK, 3-Slot)	24.25	24.07	24.60	16.34	16.85	17.79	
GPRS (GMSK, 4-Slot)	24.41	24.18	24.77	16.47	16.99	17.90	
EGPRS(8PSK, 1-Slot)	22.55	22.58	22.98	14.62	14.11	15.62	
EGPRS(8PSK, 2-Slot)	24.49	24.49	24.86	16.51	15.96	17.49	
EGPRS(8PSK, 3-Slot)	24.11	24.11	24.47	16.15	15.66	17.16	
EGPRS(8PSK, 4-Slot)	24.23	24.32	23.67	16.29	15.87	17.38	

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



Mode	Channel Number	Frequency (MHz)	PEAK Power (dBm)
	0	2402	-2.561
GFSK	39	2441	-2.593
	78	2480	-2.890
	0	2402	-3.354
π /4QDPSK	39	2441	-3.086
	78	2480	-2.647
8DPSK	0	2402	-3.716
	39	2441	-3.390
	78	2480	-2.856





Mode	GSM850	GSM1900
GSM/PCS	32±1dBm	24.5±1dBm
GPRS (1 Slot)	32±1dBm	24±1dBm
GPRS (2 Slot)	30±1dBm	23.5±1dBm
GPRS (3 Slot)	28±1dBm	21.5±1dBm
GPRS (4 Slot)	27±1dBm	20±1dBm
EDGE (1 Slot)	31±1dBm	24±1dBm
EDGE (2 Slot)	30±1dBm	22.5±1dBm
EDGE (3 Slot)	28±1dBm	20.5±1dBm
EDGE (4 Slot)	27±1dBm	19.5±1dBm

Mode	BT
GFSK	-2±1dBm
π/4-DQPSK	-3±1dBm
8DPSK	-3±1dBm





11. EUT And Test Setup Photo

11.1 EUT Photo

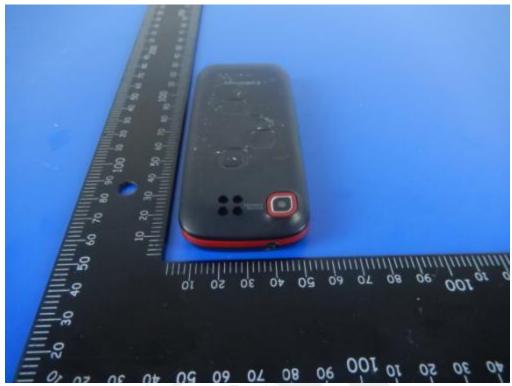


Front side

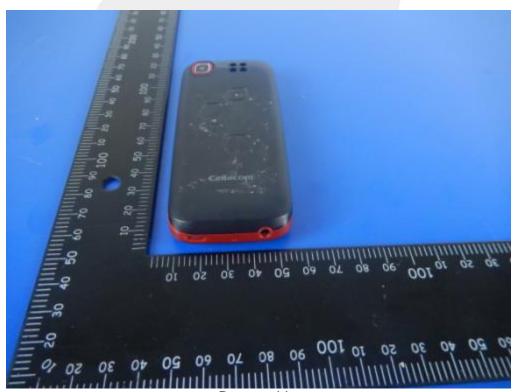


Back side



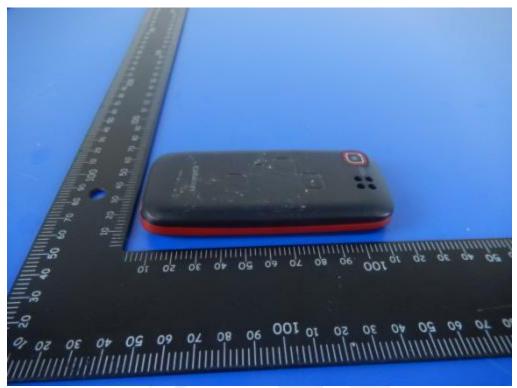


Top side

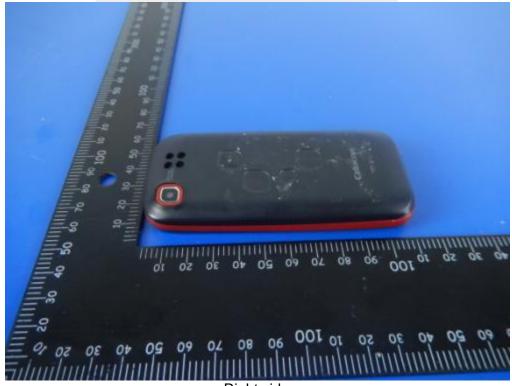


Bottom side



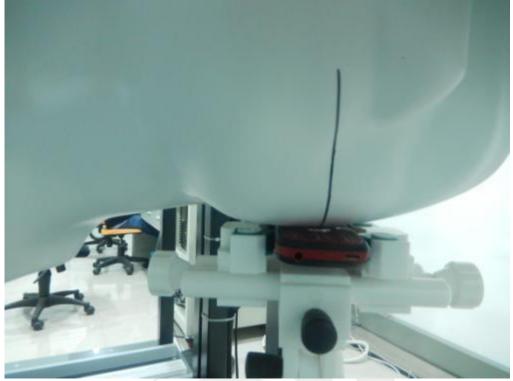


Left side

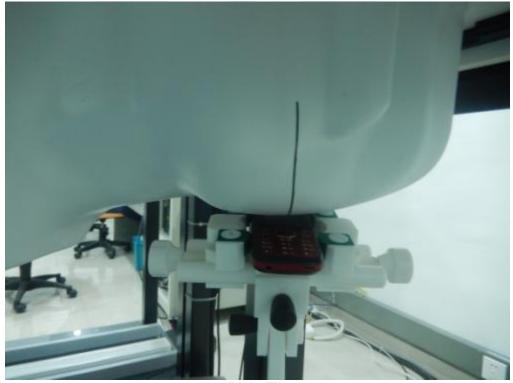


Right side



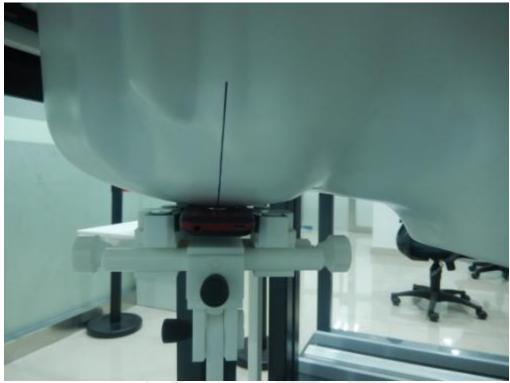




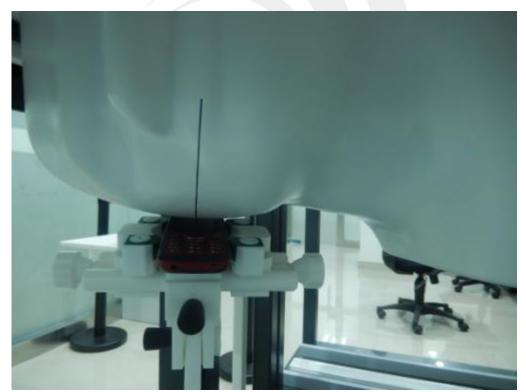


Right Tilt





Left Touch

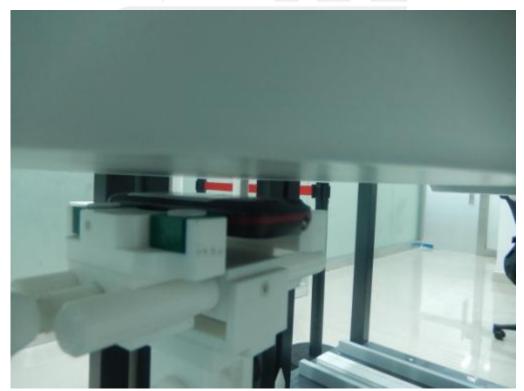


Left Tilt





Body Front side



Body Back 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.
		Right Cheek	CH 251	0.370	-3.96	33	32.05	0.460	1
CSM SEO	Voice	Right Tilt	CH 251	0.280	-1.01	33	32.05	0.348	2
G3W 650	GSM 850 Voice	Left Cheek	CH 251	0.408	-0.85	33	32.05	0.508	3
		Left Tilt	CH 251	0.335	4.09	33	32.05	0.417	4
		Right Cheek	CH 512	0.557	3.76	25.5	25.12	0.608	10
GSM1900 Voice	Voice	Right Tilt	CH 512	0.266	0.43	25.5	25.12	0.290	11
	voice	Left Cheek	CH 512	0.663	4.08	25.5	25.12	0.724	12
		Left Tilt	CH 512	0.227	2.76	25.5	25.12	0.248	13

12.2 Body 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.
		Front side	CH 251	0.333	-1.58	31	30.93	0.338	5
CSM 950	GPRS	Back side	CH 251	0.742	0.22	31	30.93	0.754	6
G3W 650	GSM 850 Data-2 Slot	Back side	CH 251	0.862	1.39	31	30.93	0.876	7
		Back side	CH 251	0.866	3.56	31	30.93	0.880	8
CSM1000	GSM1900 GPRS Data-2 Slot	Front side	CH 512	0.248	-1.35	24.5	24.11	0.271	14
GSW1900		Back side	CH 512	0.578	1.33	24.5	24.11	0.632	15

Note:

[•]Two Sim card slot can't work at the same time. The test separation of all above table is 10mm.



Repeated 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	GPRS Data-2 Slot	Back side	CH251	0.877	-0.89	31	30.93	0.891	9

12.3 repeated SAR measurement

Band	Mode	Test Position	Channel	Original Measured SAR 1g(mW/g)	1 st Repeated SAR 1g	Ratio	Original Measured SAR 1g(mW/g)	2nd Repeated SAR 1g	Ratio
GSM 850	GPRS Data-2 Slot	Back side	CH251	0.866	0.877	1.01	-	-	-

Note:

- 1. Per KDB 865664 D01V01,for each frequency band ,repeated SAR measurement is required only when the measured SAR is ≥0.8W/Kg.
- 2. Per KDB 865664 D01V01,if the ratio of largest to smallest SAR for the original and first repeated measurement is ≤1.2and the measured SAR <1.45W/Kg, only one repeated measurement is required.
- 3. Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is >1.20 or when the original or repeated measurement is ≥ 1.45W/Kg
- Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurement is >1.20W/kg
- 5. The ratio is the difference in percentage between original and repeated measured SAR.



13. Equipment List

NO.	Instrument	Manufacturer	Model	S/N	Cal. Date	Cal. Due Date
1	835MHz Dipole	SATIMO	SID835	SN 30/14 DIP0G835-332	2014.09.01	2015.08.31
2	1900MHz Dipole	SATIMO	SID1900	SN 30/14 DIP1G900-333	2014.09.01	2015.08.31
3	E-Field Probe	SATIMO	SSE5	SN 17/14 EP221	2014.09.01	2015.08.31
4	Antenna	SATIMO	ANTA3	SN 07/13 ZNTA52	2014.09.01	2015.08.31
5	Waveguide	SATIMO	SWG5500	SN 13/14 WGA32	2014.09.01	2015.08.31
6	Phantom1	SATIMO	SAM	SN 32/14 SAM115	2014.09.01	2015.08.31
7	Phantom2	SATIMO	SAM	SN 32/14 SAM116	2014.09.01	2015.08.31
8	SAR TEST BENCH	SATIMO	GSM feature phone POSITIONNIN G SYSTEM	SN 32/14 MSH97	2014.09.01	2015.08.31
9	SAR TEST BENCH	SATIMO	LAPTOP POSITIONNIN G SYSTEM	SN 32/14 LSH29	2014.09.01	2015.08.31
10	Dielectric Probe Kit	SATIMO	SCLMP	SN 32/14 OCPG52	2014.09.01	2015.08.31
11	Multi Meter	Keithley	Multi Meter 2000	4050073	2014.11.20	2015.11.19
12	Signal Generator	R&S	SMF100A	104260	2014.10.27	2015.10.26
13	Power Meter	R&S	NRP	100510	2014.10.25	2015.10.24
14	Power Sensor	R&S	NRP-Z11	101919	2014.10.25	2015.10.24
15	Network Analyzer	R&S	5071C	EMY46103472	2014.12.12	2015.12.11



Appendix A. System Validation Plots

System Performance Check Data (835MHz Head)

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

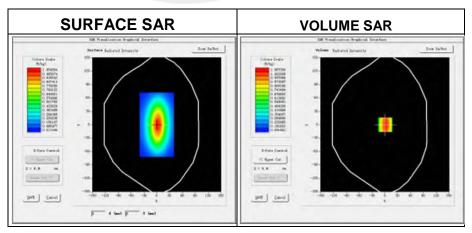
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2015.3.26

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



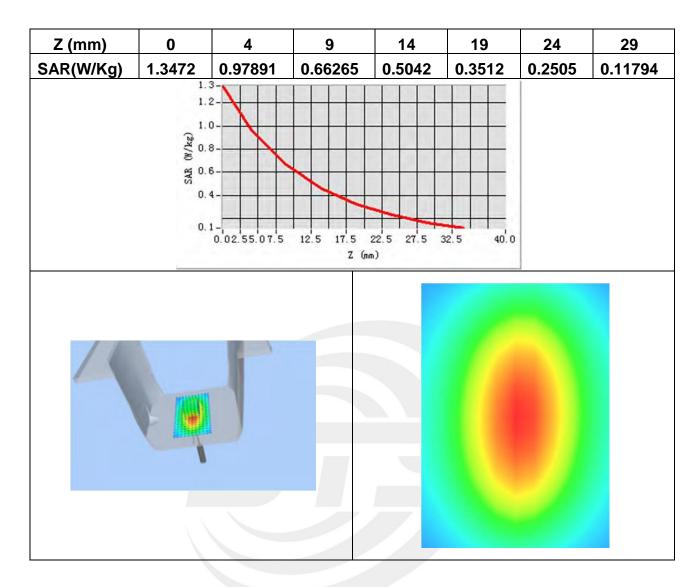
Maximum location: X=1.00, Y=0.00

SAR Peak: 1.46 W/kg

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



Z Axis Scan





System Performance Check Data (835MHz Body)

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

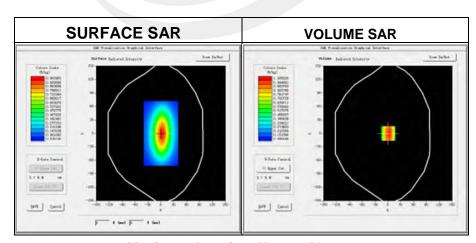
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2015.3.26

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			



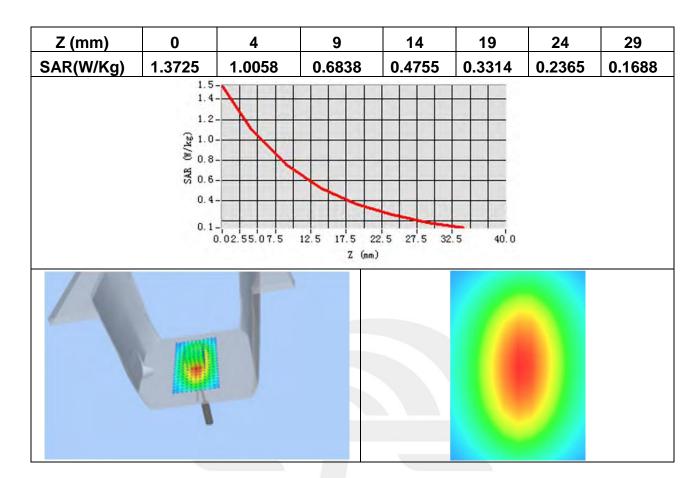
Maximum location: X=1.00, Y=0.00

SAR Peak: 1.48 W/kg

SAR 10g (W/Kg)	0.643221
SAR 1g (W/Kg)	0.967939



Z Axis Scan





System Performance Check Data (1900MHz Head)

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

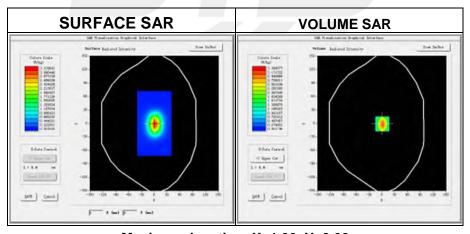
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2015.3.26

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



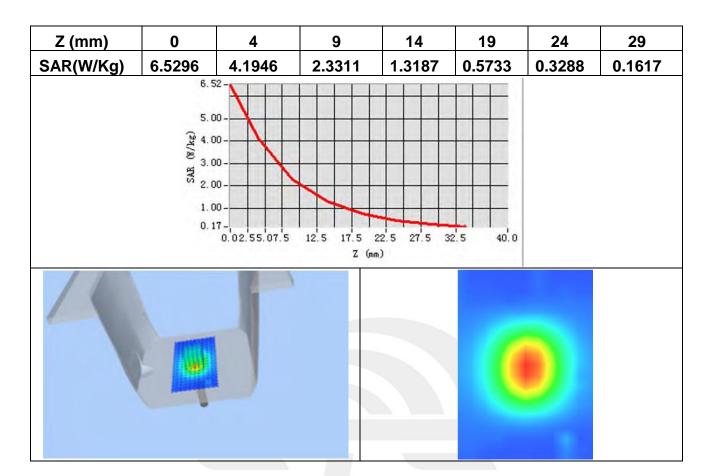
Maximum location: X=1.00, Y=0.00

SAR Peak: 5.39 W/kg

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



Z Axis Scan





System Performance Check Data (1900MHz Body)

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

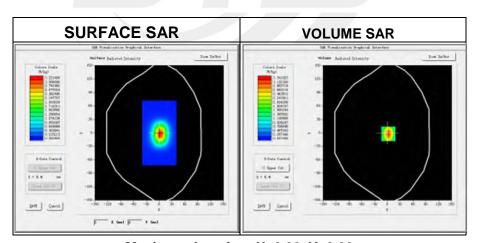
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2015.3.26

Measurement duration: 14 minutes 46 seconds

Experimental conditions.

Device Position	-
Band	1900MHz
	1 3001011 12
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



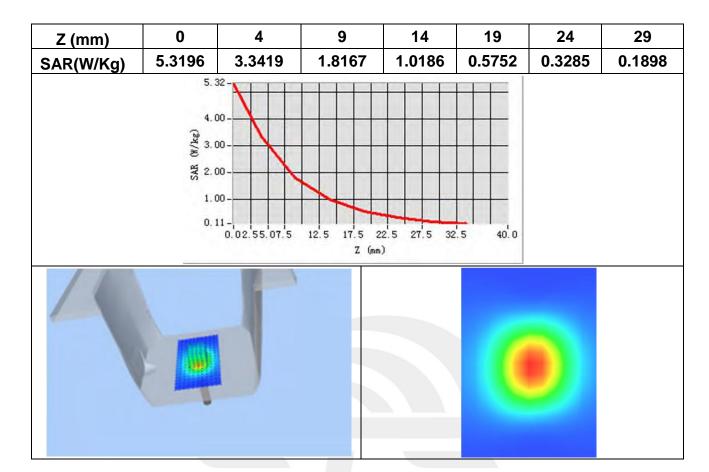
Maximum location: X=2.00, Y=2.00

SAR Peak: 5.27 W/kg

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



Z Axis Scan





Appendix B. SAR Test Plots

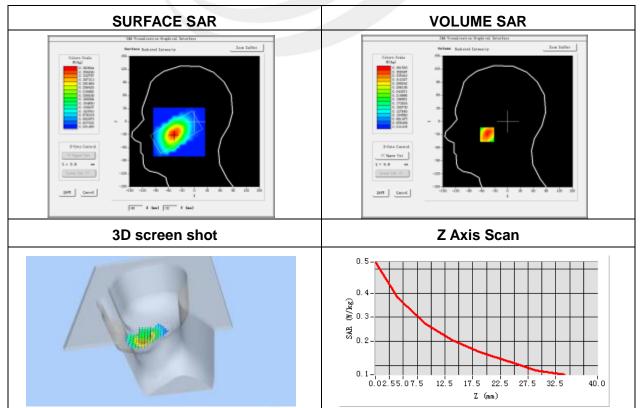
Plot 1: DUT: GSM feature phone; EUT Model: T160

Test Data	2015-3-26
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
ZoomSoon	5x5x7,dx=8mm dy=8mm dz=5mm,
ZoomScan	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)	41.5
Conductivity (S/m)	0.90
Variation (%)	-3.96

Maximum location: X=-48.00, Y=-30.00

SAR Peak: 0.53 W/kg

SAR 10g (W/Kg)	0.246911
SAR 1g (W/Kg)	0.370225





Plot 2: DUT: GSM feature phone; EUT Model: T160

Test Data	2015-3-26
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
Zoom Coon	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)	41.5
Conductivity (S/m)	0.90
Variation (%)	-1.01

Maximum location: X=-39.00, Y=-17.00

SAR Peak: 0.39 W/kg

SAR 10g (W/Kg)	0.194331
SAR 1g (W/Kg)	0.280494



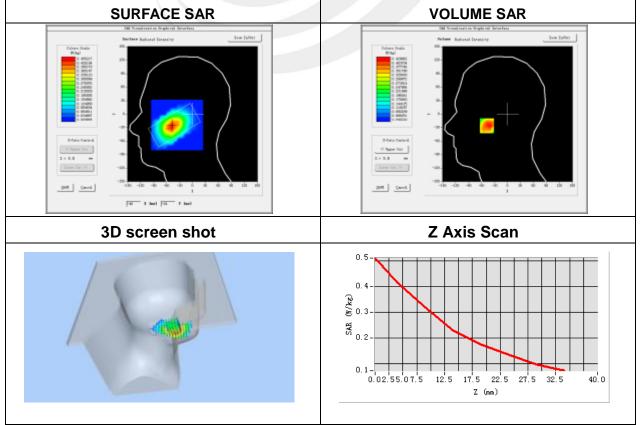


Plot 3: DUT: GSM feature phone; EUT Model: T160

Test Data	2015-3-26
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)	41.5
Conductivity (S/m)	0.90
Variation (%)	-0.85

Maximum location: X=-48.00, Y=-26.00 SAR Peak: 0.56 W/kg

SAR 10g (W/Kg)	0.278771
SAR 1g (W/Kg)	0.407697



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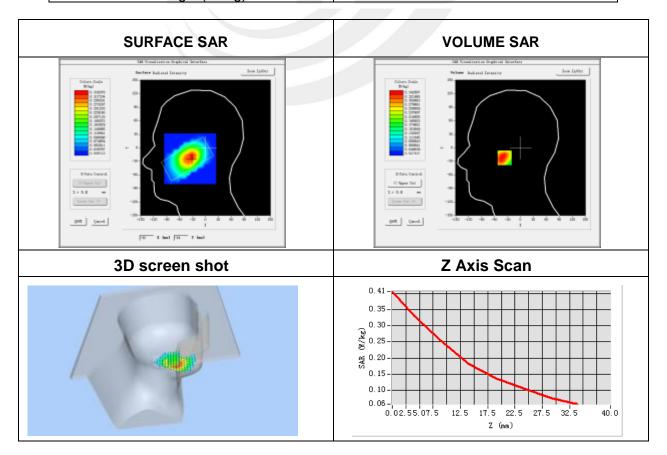


Plot 4: DUT: GSM feature phone ; EUT Model: T160

Test Data	2015-3-26
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	High
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	848.8
Relative permittivity (real part)	41.5
Conductivity (S/m)	0.90
Variation (%)	4.09

Maximum location: X=-32.00, Y=-22.00 SAR Peak: 0.48 W/kg

SAR 10g (W/Kg)	0.226749
SAR 1g (W/Kg)	0.335348



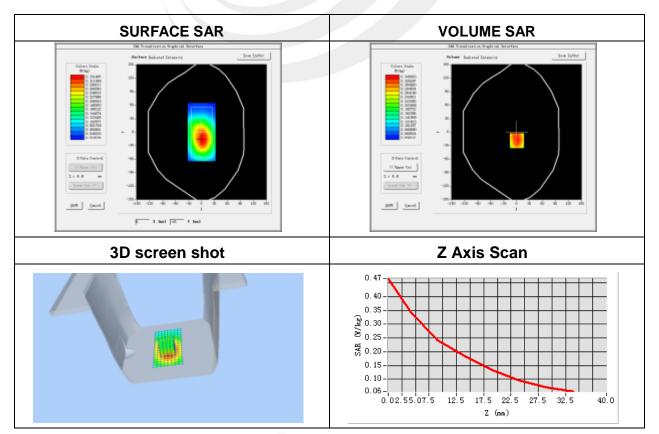


Plot 5: DUT: GSM feature phone; EUT Model: T160

Test Data	2015-3-26
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	GPRS 850
Channels	High
Signal	Duty Cycle: 4.00 (Crest factor: 4.0)
Frequency (MHz)	848.8
Relative permittivity (real part)	55.2
Conductivity (S/m)	0.97
Variation (%)	-1.58

Maximum location: X=1.00, Y=--19.00 SAR Peak: 0.47 W/kg

SAR 10g (W/Kg)	0.226365
SAR 1g (W/Kg)	0.333288



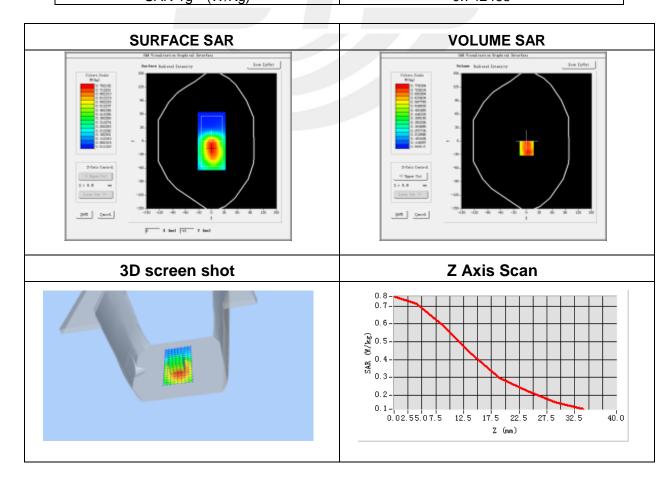


Plot 6: DUT: GSM feature phone ; EUT Model: T160

Test Data	2015-3-26
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	Low
Signal	Duty Cycle: 4.00 (Crest factor: 4.0)
Frequency (MHz)	824.2
Relative permittivity (real part)	55.2
Conductivity (S/m)	0.97
Variation (%)	0.22

Maximum location: X=0.00, Y=-16.00 SAR Peak: 1.06 W/kg

SAR 10g (W/Kg)	0.513905
SAR 1a (W/Ka)	0.742465



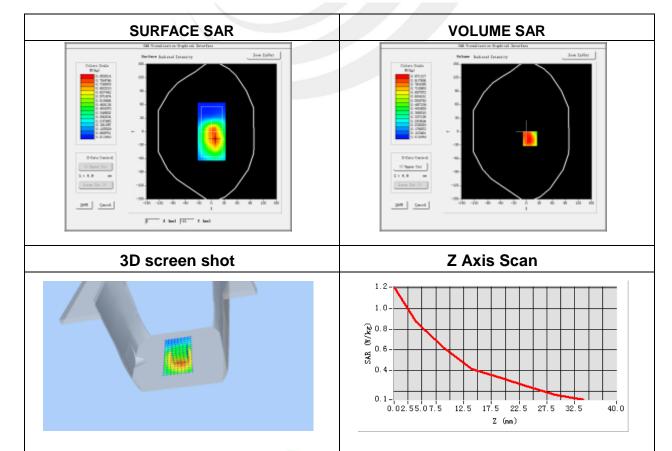


Plot 7: DUT: GSM feature phone ; EUT Model: T160

2015-3-26
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 back
GPRS 850
Middle
Duty Cycle: 4.00 (Crest factor: 4.0)
836.6
55.2
0.97
1.39

Maximum location: X=8.00, Y=-16.00 SAR Peak: 1.24 W/kg

SAR 10g (W/Kg)	0.577131
SAR 1g (W/Kg)	0.862350



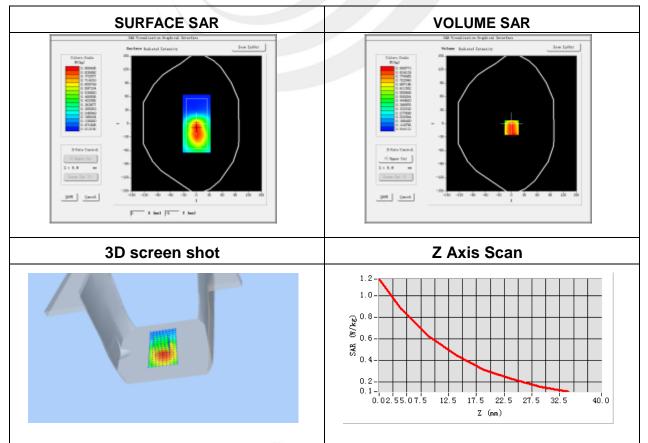


Plot 8: DUT: GSM feature phone ; EUT Model: T160

Test Data	2015-3-26
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: 4.00 (Crest factor: 4.0)
Frequency (MHz)	848.8
Relative permittivity (real part)	55.2
Conductivity (S/m)	0.97
Variation (%)	3.56

Maximum location: X=0.00, Y=-9.00 SAR Peak: 1.27 W/kg

SAR 10g (W/Kg)	0.585257
SAR 1g (W/Kg)	0.865539



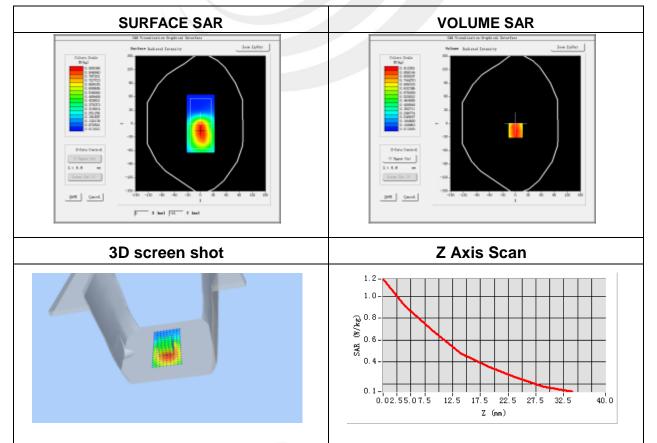


Plot 9: DUT: GSM feature phone; EUT Model: T160

Test Data	2015-3-26
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: 4.00 (Crest factor: 4.0)
Frequency (MHz)	848.8
Relative permittivity (real part)	55.2
Conductivity (S/m)	0.97
Variation (%)	-0.89

Maximum location: X=0.00, Y=-15.00 SAR Peak: 1.39 W/kg

SAR 10g (W/Kg)	0.611924
SAR 1g (W/Kg)	0.876518





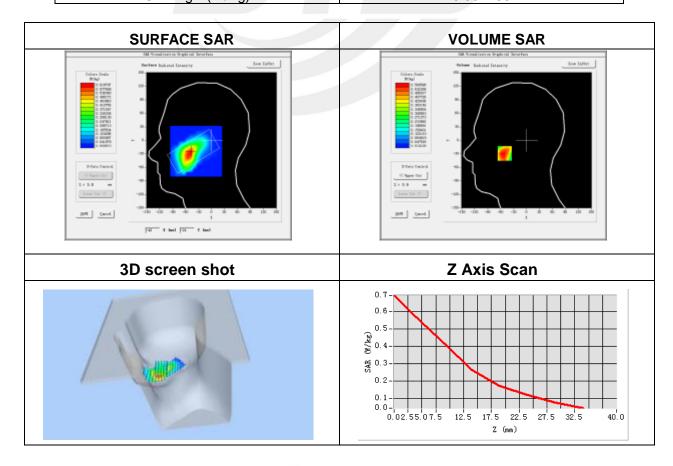
Plot 10: DUT: GSM feature phone; EUT Model: T160

<u> </u>	
Test Data	2015-3-26
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	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 (%)	3.76
	-

Maximum location: X=-51.00, Y=-29.00

SAR Peak: 0.82 W/kg

SAR 10g (W/Kg)	0.341462
SAR 1a (W/Ka)	0.557486





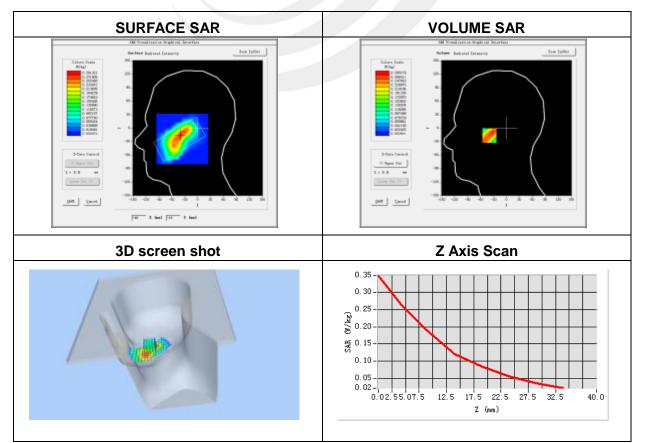
Plot 11: DUT: GSM feature phone ; EUT Model: T160

Test Data	2015-3-26
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
70	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 (%)	0.43

Maximum location: X=-40.00, Y=-16.00

SAR Peak: 0.41 W/kg

SAR 10g (W/Kg)	0.162316
SAR 1g (W/Kg)	0.266032



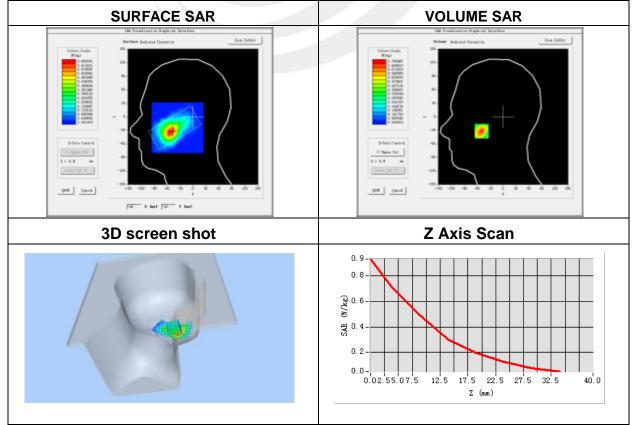


Plot 12: DUT: GSM feature phone ; EUT Model: T160

Test Data	2015-3-26
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
7	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 (%)	4.08

Maximum location: X=-50.00, Y=-32.00 SAR Peak: 0.99 W/kg

	<u> </u>
SAR 10g (W/Kg)	0.380066
SAR 1g (W/Kg)	0.662950





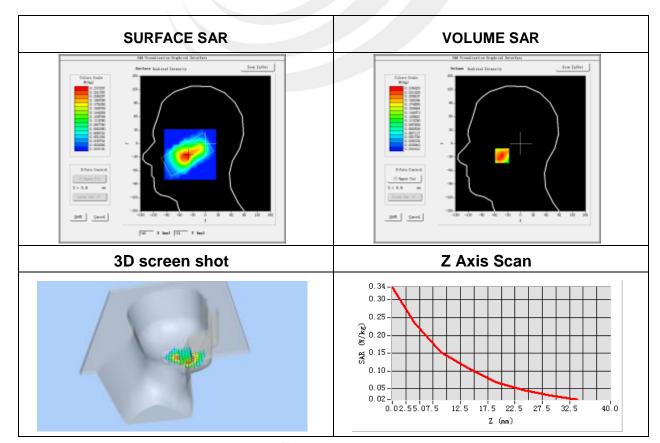
Plot 13: DUT: GSM feature phone ; EUT Model: T160

Test Data	2015-3-26
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	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 (%)	2.76

Maximum location: X=-43.00, Y=-27.00

SAR Peak: 0.35 W/kg

SAR 10g (W/Kg)	0.138123
SAR 1g (W/Kg)	0.227046



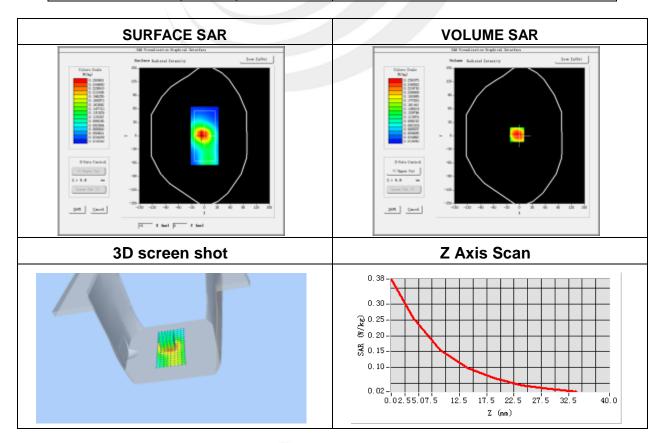


Plot 14: DUT: GSM feature phone ; EUT Model: T160

Test Data	2015-3-26
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	High
Signal	Duty Cycle: 4.00 (Crest factor: 4.0)
Frequency (MHz)	1909.8
Relative permittivity (real part)	39.57
Conductivity (S/m)	1.43
Variation (%)	-1.35

Maximum location: X=-6.00, Y=3.00 SAR Peak: 0.40 W/kg

	<u> </u>
SAR 10g (W/Kg)	0.146865
SAR 1g (W/Kg)	0.248422



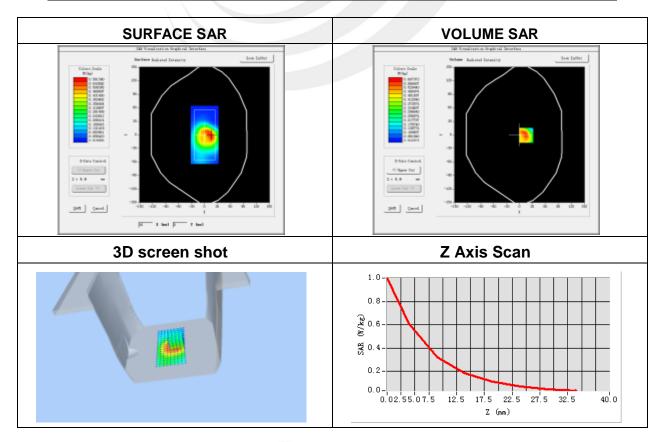


Plot 15: DUT: GSM feature phone; EUT Model: T160

Test Data	2015-3-26
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 Back
Band	GPRS 1900
Channels	High
Signal	Duty Cycle: 4.00 (Crest factor: 4.0)
Frequency (MHz)	1909.8
Relative permittivity (real part)	39.57
Conductivity (S/m)	1.43
Variation (%)	1.33

Maximum location: X=15.00, Y=-1.00 SAR Peak:1.02 W/kg

	<u> </u>
SAR 10g (W/Kg)	0.301535
SAR 1g (W/Kg)	0.577541





Appendix C. Probe Calibration And Dipole Calibration Report

Refer the appendix Calibration Report.

