



FCC SAR TEST REPORT

Report No: STS1604007H01

Issued for

Southern Telecom Inc.

14C 53rd Street, Brooklyn, NY 11232

Product Name:	Mobile Phone
Brand Name:	POLAROID
Model Name:	A2
Series Model:	A2WH,A2BK
FCC ID:	2ABV4A2WH
	ANSI/IEEE Std. C95.1
Test Standard:	FCC 47 CFR Part 2 (2.1093)
	IEEE 1528: 2013
Max. Report	Head:1.279 W/kg
SAR (1g):	Body:0.781 W/kg

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Test Report Certification

Applicant's name: Southern Telecom Inc.

Address : 14C 53rd Street, Brooklyn, NY 11232

Manufacture's Name.....: IMG TECHNOLOGY CO.,LTD

Address 1108, Tower B, Tian'an High-Tech Plaza Phase 1, Tian'an Cyber

Park ,Futian District ,Shenzhen ,China

Product description

Product name: Mobile Phone

Trademark: POLAROID

Model and/or type reference : A2

Series Model: A2WH,A2BK

ANSI/IEEE Std. C95.1-1992

Standards FCC 47 CFR Part 2 (2.1093)

IEEE 1528: 2013

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

Date of Test

Date of Issue...... 11 Apr. 2016

Test Result..... Pass

Testing Engineer : Allen Cher

(Allen Chen)

Technical Manager:

Authorized Signatory:

(John Zou)

1. 010

(Bovey Yang)



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1.General Information

Environmental evaluation measurements of specific absorption rate (SAR) distributions in emulated human head and body tissues exposed to radio frequency (RF) radiation from wireless portable devices for compliance with the rules and regulations of the U.S. Federal Communications Commission (FCC).

1.1 EUT Description

1.1 EUT Descrip							
Equipment	Mobile Ph	one					
Brand Name	POLAROI	POLAROID					
Model No.	A2	42					
Series Model	A2WH,A2	A2WH,A2BK					
FCC ID	2ABV4A2	ABV4A2WH					
Model Difference	Only differ	rent in model name					
Adapter		100-240V,200mA, 50/6 C 5V, 550mA	60 Hz				
Battery	Rated Vol Charge Li Capacity:						
Device Category	Portable						
Product stage	Production	unit					
RF Exposure Environment	General Po	opulation / Uncontrolled					
IMEI	351905069	351905069701741					
Hardware Version	6173_MB	_V1.1					
Software Version	N/A						
Frequency Range	PCS1900: WLAN 802	824.2~848.8MHz :1850.2~1909.8MHz 2.11b/g/n(HT20):2412~ 2402~ 2480MHz	-2462MHz				
Mary Day and al	Band	Mode	Head (W/kg)	Body Worn (W/kg)			
Max. Reported SAR(1g):	PCE	GSM 850	1.279	0.307			
OAR(19).	PCE	GSM 1900	0.140	0.781			
4 a Cum CAD	DSS	Bluetooth ^{Note}	0.041 1.320	0.021			
1-g Sum SAR	1:	Dantable Tremensitten II		0.802			
FCC Equipment Class		Portable Transmitter H pread Spectrum Transi					
Operating Mode:		M Voice; GPRS; EGPF V2.1 + EDR (GFSK +					
Antenna Specification:	GSM: PIFA Antenna BT: Dipole Antenna						
SIM Card		ual-SIM, dual standby, cannot transmitting at t	•	rd with			
Note:							

Note:

- 1. Bluetooth SAR was estimated
- 2. The dual SIM card mobile has 2 SIM slots and supports dual SIM dual standby. The WWAN radio transmission will be enabled by either one SIM at a time (Single active)
- 3. After pre-scan two SIM cards power, we found test result of the SIM1 was the worse, so we chose SIM1 card to perform all tests.
- 4. The EUT battery must be fully charged and checked periodically during the test to ascertain uniform power



1.2 Test Environment

Ambient conditions in the SAR laboratory:

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

1.3 Test Factory

Shenzhen STS Test Services Co., Ltd.

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

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 v06	Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies
5	FCC KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
6	FCC KDB 865664 D02 v01r02	RF Exposure Reporting

(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 1 gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

Population/Uncontrolled Environments:

are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

Occupational/Controlled Environments:

are defined as locations where there is exposure that may be incurred by people who are aware of the potential for exposure, (i.e. as a result of employment or occupation).

NOTE GENERAL POPULATION/UNCONTROLLED EXPOSURE PARTIAL BODY LIMIT 1.6 W/kg



3. SAR Measurement System

3.1 Definition Of Specific Absorption Rate (SAR)

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

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

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

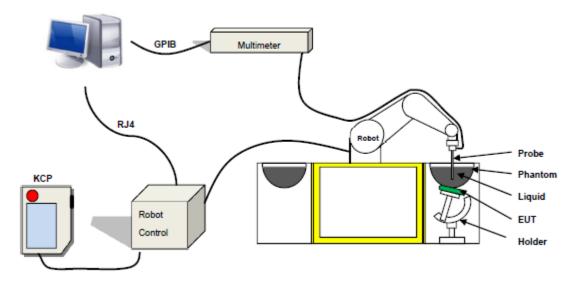
$$SAR = \frac{\sigma E^2}{\rho}$$

Where: σ is the conductivity of the tissue,

 $\boldsymbol{\rho}$ 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 45/15 EPGO281 with following specifications is used

- Dynamic range: 0.01-100 W/kg
- Tip Diameter: 2.5 mm
- Length of Individual Dipoles: 2 mm
- Maximum external diameter: 8 mm
- Distance between dipoles / probe extremity: 2.7 mm

(repeatability better than +/- 1mm)

- Probe linearity: 0±2.60%(±0.11 dB)
- Axial Isotropy: < 0.25 dB
- Spherical Isotropy: < 0.25 dB
- Calibration range: 450MHz to 6GHz for head & body simulating liquid. Angle between probe axis (evaluation axis) and surface normal line: less than 30°



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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.

Frequency	Bactericide	DGBE	HEC	NaCl	Sucrose	1,2-Propan ediol	X100	Water	Conductivity	Permittivity
(MHz)	%	%	%	%	%	%	%	%	σ	εr
750	/	/	/	0.79	/	64.81	/	34.40	0.97	41.8
835	/	/	/	0.79	/	64.81	/	34.40	0.97	41.8
900	/	/	/	0.79		64.81	/	34.40	0.97	41.8
1800	/	13.84	/	0.35	1	1	30.45	55.36	1.38	41.0
1900	/	13.84	1	0.35	1	1	30.45	55.36	1.38	41.0
2000	/	7.99	1	0.16	/	/	19.97	71.88	1.55	41.1
2450	/	7.99	/	0.16	/	/	19.97	71.88	1.88	40.3
2600	/	7.99	/	0.16	1	/	19.97	71.88	1.88	40.3

Tissue dielectric parameters for head and body phantoms							
Frequency	3	r	σ S/m				
	Head	Body	Head	Body			
300	45.3	58.2	0.87	0.92			
450	43.5	58.7	0.87	0.94			
900	41.5	55.0	0.97	1.05			
1450	40.5	54.0	1.20	1.30			
1800	40.0	53.3	1.40	1.52			
2450	39.2	52.7	1.80	1.95			
3000	38.5	52.0	2.40	2.73			
5800	35.3	48.2	5.27	6.00			



LIQUID MEASUREMENT RESULTS

Date: 08 Apr. 2016 Ambient condition: Temperature 22.7°C Relative humidity: 49%

Head Simulating Liquid		Parameters	Target	Measured	Deviation[%]	Limited[%]
Frequency	Temp. [°C]					
835 MHz		Permitivity:	41.5	42.31	1.95	±5
835 MHz 22.30	Conductivity:	0.9	0.94	4.44	± 5	
1900 MHz 22.30	Permitivity:	40	41.20	3.00	± 5	
	22.30	Conductivity:	1.4	1.45	3.57	± 5

Body Simulating Liquid		D	T		5 1 11 5 01	
Frequency	Temp. [°C]	Parameters	Target	Measured	Deviation[%]	Limited[%]
835 MHz	22.30	Permitivity:	55.2	54.12	-1.96	± 5
835 MHZ 22	22.30	Conductivity:	0.97	0.95	-2.06	± 5
4000 MU-	4000 MH I- 20 20	Permitivity:	53.3	53.21	-0.17	± 5
1900 MHz	22.30	Conductivity:	1.52	1.50	-1.32	± 5



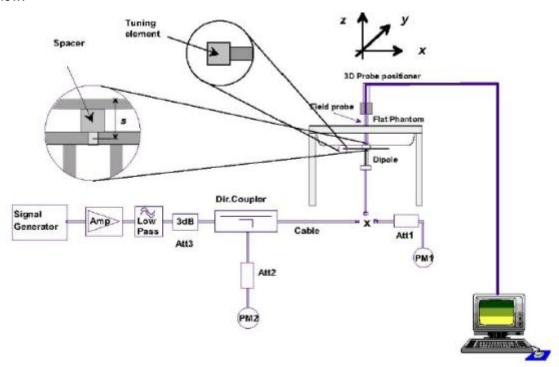


5. SAR System Validation

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%

7 timbionic condition Temperature 22:7 C Notative nationally: 1070									
Freq.(MHz)	Power(mW)	Tested Value (W/Kg)	Normalized SAR (W/kg)	Target(W/Kg)	Tolerance(%)	Date			
835 Head	100	0.968	9.68	9.56	1.27	2016-04-08			
835 Body	100	0.941	9.41	9.56	-1.62	2016-04-08			
1900 Head	100	4.007	40.07	39.7	0.92	2016-04-08			
1900 Body	100	4.161	41.61	39.7	4.81	2016-04-08			

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 D01 quoted below.

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

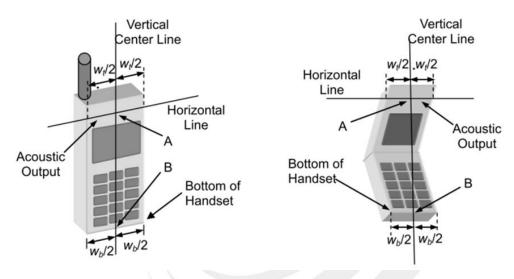


7. EUT Test Position

This EUT was tested in 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.

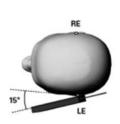


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Body-worn Position Conditions:

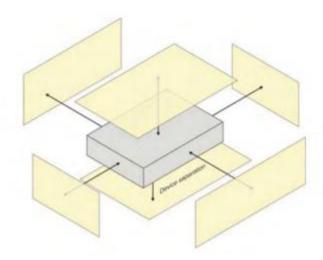
Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in KDB Publication 447498 D01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. When the same wireless transmission configuration is used for testing body-worn accessory and hotspot mode SAR, respectively, in voice and data mode, SAR results for the most conservative *test separation distance* configuration may be used to support both SAR conditions. When the *reported* SAR for a body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest *reported* SAR configuration for that wireless mode and frequency band should be repeated for the body-worn accessory with a headset attached to the handset.





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).



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8. Uncertainty

8.1 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in IEEE 1528: 2013. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

NO	Source	Tol(%)	Prob. Dist.	Div. k	ci (1g)	ci (10g)	1gUi	10gUi	Veff
Meas	urement System□								
1	Probe calibration	5.8	N	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	√C _p	√C _p	2.41	2.41	8
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	1	0.58	0.58	8
7	Readout electronics	0.5	N	1	1	1	0.50	0.50	8
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	8
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								



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			I	<u> </u>		I			
15	Device positioning	2.6	N	1	1	1	2.6	2.6	11
16	Device holder	3	N	1	1	1	3.0	3.0	7
17	Drift of output power	5.0	R	√3	1	1	2.89	2.89	8
Phant	om 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
Combined standard RSS		RSS	$U_{C} = \sqrt{\sum_{i=1}^{n} C_{i}^{2} U_{i}^{2}}$			10.63%	10.54%		
Expanded uncertainty (P=95%)				$U = k \ U_C$,k=2			21.26%	21.08%	



8.2 System validation Uncertainty

					_	_			
NO	Source	Tol(%)	Prob. Dist.	Div. k	ci (1g)	ci (10g)	1gUi	10gUi	Veff
Measi	urement System□								
1	Probe calibration	5.8	N	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	8
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	∞
6	System Detection limits	1.0	R	√3	1	1	0.58	0.58	8
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	∞
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	8
13	Probe positioner mech. restrictions	1.4	R	√3	1	1	0.81	0.81	8
14	Probe positioning with respect to phantom shell	1.4	R	√3	1	1	0.81	0.81	8
15	Max.SAR evaluation	1.0	R	√3	1	1	0.6	0.6	8
Dipole									
16	Deviation of experimental source from	4	N	1	1	1	4.00	4.00	∞



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17	Input power and SAR drit	5	R	√3	1	1	2.89	2.89	∞	
	measurement	•		,,0	•		2.00	2.00		
18	Dipole Axis to liquid Distance	2	R	√3	1	1			8	
Phant	om and set-up									
19	Phantom uncertainty	4.0	R	√3	1	1	2.31	2.31	8	
20	Uncertainty in SAR correction for deviation(in	2.0	N	1	1	0.84	2	1.68	∞	
21	Liquid conductivity (target)	2	N	1	1	0.84	2.00	1.68	∞	
22	Liquid conductivity (temperature uncertainty)	2.5	N	1	0.78	0.71	1.95	1.78	5	
23	Liquid conductivity (meas)	4	N	1	0.23	0.26	0.92	1.04	5	
24	Liquid Permittivity (target)	2.5	N	1	0.78	0.71	1.95	1.78	∞	
25	Liquid Permittivity (temperature uncertainty)	2.5	N	1	0.78	0.71	1.95	1.78	5	
26	Liquid Permittivity (meas)	5.0	N	1	0.23	0.26	1.15	1.30	80	
Combined standard RSS			RSS	U	$_{C} = \sqrt{\sum_{i=1}^{n} C_{i}^{2} U}$	2	10.15%	10.05%		
Expar (P=95	nded uncertainty 5%)			$U=k \ U_C$,k=	2		20.29%	20.10%		



9. Conducted Power Measurement

9.1 Test Result

	Burst Average Power (dBm)											
Band		GSM 850		PCS 1900								
Channel	128	190	251	512	661	810						
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880.0	1909.8						
GSM(GMSK, 1-Slot)	32.53	32.47	32.40	28.72	28.62	28.80						
GPRS (GMSK, 1-Slot)	32.24	32.20	32.17	28.51	28.38	28.55						
GPRS (GMSK, 2-Slot)	31.82	31.75	31.77	28.11	27.90	28.13						
GPRS (GMSK, 3-Slot)	30.49	30.45	30.42	26.76	26.57	26.74						
GPRS (GMSK, 4-Slot)	29.99	29.98	29.94	26.33	26.16	26.34						
EGPRS(8PSK, 1-Slot)	/	/	/	/	/	/						
EGPRS(8PSK, 2-Slot)	/	/	/	/	/	/						
EGPRS(8PSK, 3-Slot)	/	/	/	/	/	/						
EGPRS(8PSK, 4-Slot)	/	1	1	1	1	1						

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)	23.50	23.44	23.37	19.69	19.59	19.77						
GPRS (GMSK, 1-Slot)	23.21	23.17	23.14	19.48	19.35	19.52						
GPRS (GMSK, 2-Slot)	25.80	25.73	25.75	22.09	21.88	22.11						
GPRS (GMSK, 3-Slot)	26.23	26.19	26.16	22.50	22.31	22.48						
GPRS (GMSK, 4-Slot)	26.98	26.97	26.93	23.32	23.15	23.33						
EGPRS(8PSK, 1-Slot)	/	/	/	/	/	/						
EGPRS(8PSK, 2-Slot)	/	/	/	/	/	/						
EGPRS(8PSK, 3-Slot)	/	/	1	/	/	/						
EGPRS(8PSK, 4-Slot)	/	/	/	/	/	/						
Damanla	l	<u> </u>		<u> </u>		1						

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) – 9.03 dB

Frame-averaged power = Burst averaged power (2 Tx Slots) - 6.02 dB

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

Frame-averaged power = Burst averaged power (4 Tx Slots) – 3.01 dB



Bluetooth

Mode	Channel Number	Frequency (MHz)	Average Power (dBm)
	0	2402	-1.060
GFSK(1Mbps)	39	2441	-1.780
	78	2480	-1.610
	0	2402	-2.240
π/4-DQPSK(2Mbps)	39	2441	-2.910
	78	2480	-2.850
	0	2402	-2.250
8-DPSK(3Mbps)	39	2441	-2.900
	78	2480	-2.840



9.2 Tune-up Power

Mode	GSM850(AVG)	GSM1900(AVG)
GSM/PCS	32±1dBm	28±1dBm
GPRS (1 Slot)	32±1dBm	28±1dBm
GPRS (2 Slot)	31±1dBm	28±1dBm
GPRS (3 Slot)	30±1dBm	26±1dBm
GPRS (4 Slot)	29±1dBm	26±1dBm

Mode	BT(AVG)
GFSK	-1±1dBm
π/4-DQPSK	-2±1dBm
8DPSK	-2±1dBm





9.3 SAR Test Exclusions Applied

Per FCC KDB 447498D01, the 1-g SAR and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

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

- 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

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

$$\frac{\textit{Max Power of Channel (mW)}}{\textit{Test Separation Dist (mm)}} * \sqrt{\textit{Frequency(GHz)}} \le 3.0$$

Based on the maximum conducted power of **Bluetooth Head** (rounded to the nearest mW) and the antenna to user separation distance,

Bluetooth Body SAR was not required; $[(0.783/5)^* \sqrt{2.402}] = 0.243 < 3.0$.

Based on the maximum conducted power of **Bluetooth Body** (rounded to the nearest mW) and the antenna to user separation distance,

Bluetooth Body SAR was not required; $[(0.783/10)^* \sqrt{2.402}] = 0.118 < 3.0$.





10. EUT And Test Setup Photo

10.1 EUT Photo





Front side











Top side











Left side







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Right side





Right Touch



Right Tilt





Left Touch

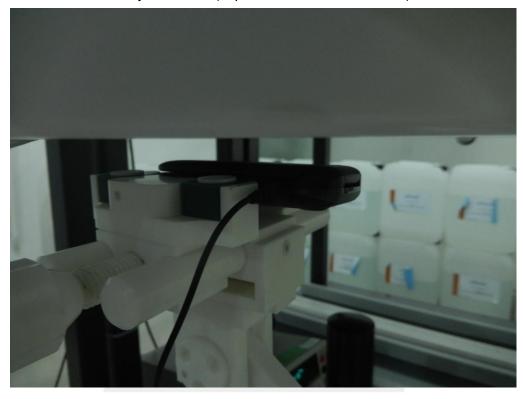


Left Tilt

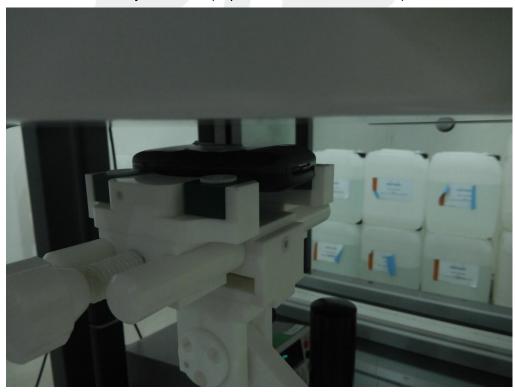








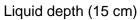
Body Back side(separation distance is 10mm)

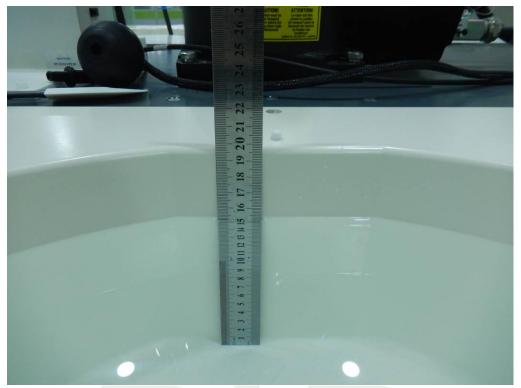
















11. SAR Result Summary

11.1 Head SAR

Band	Mode	Test Position	Ch.	Result 1g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR (W/Kg)	Meas. No.
		Right Cheek	128	0.924	-2.85	33	32.53	1.030	/
		Right Cheek	190	1.105	1.15	33	32.47	1.248	
		Right Cheek	251	0.776	1.67	33	32.40	0.891	
CSM 950	Voice	Right Tilt	190	0.206	3.42	33	32.53	0.230	/
GSM 850) Voice	Left Cheek	128	0.945	-3.20	33	32.53	1.053	/
		Left Cheek	190	1.132	3.38	33	32.47	1.279	1
		Left Cheek	251	0.868	2.93	33	32.40	0.997	/
		Left Tilt	190	0.223	-3.63	33	32.53	0.248	/
		Right Cheek	512	0.134	-3.95	29	28.80	0.140	3
CCM4000	\/a:aa	Right Tilt	512	0.083	-3.02	29	28.80	0.087	/
GSM1900	Voice	Left Cheek	512	0.083	3.91	29	28.80	0.087	/
		Left Tilt	512	0.035	-4.09	29	28.80	0.037	/

Note:

Per KDB865664 D01, Repeated measurement is not required when the original highest measured SAR is <0.80 W/kg

11.2 Body-worn and Hotspot SAR

Band	Mode	Test Position	Ch.	Result 1g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR (W/Kg)	Meas. No.
GSM 850	GPRS	Front side	190	0.171	-0.47	30	29.99	0.171	/
Data-4 S	Data-4 Slot	Back side	190	0.306	-1.50	30	29.99	0.307	2
CCM1000	GPRS	Front side	512	0.293	-1.65	27	26.34	0.341	/
GSM1900 Data-4 Slot	Back side	512	0.671	0.03	27	26.34	0.781	4	

Note:

- 1. The test separation of all above table is 10mm.
- 2. When the user enables the personal Wireless router functions for the handsets, actual operations include simultaneous transmission of both the Wi-Fi transmitting frequency and thus cannot be evaluated for SAR under actual use conditions. The "Portable Hotspot" feature on the handset was NOT activated, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal.

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Repeated SAR

Band	Mode	Test Position	Ch.	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	190	1.091	3.51	33	32.47	1.233	/
GSM 850	Voice	Left Cheek	190	0.993	-2.57	33	32.47	1.122	/

11.3 repeated SAR measurement

Band	Mode	Test Position	Ch.	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	Voice	Right Cheek	190	1.105	1.091	0.99	-	-	-
GSM 850	Voice	Left Cheek	190	1.132	0.993	0.88	-	-	-

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
- 4. The ratio is the difference in percentage between original and repeated measured SAR.





Simultaneous Multi-band Transmission Evaluation:

Application Simultaneous Transmission information:

Position	Simultaneous state
Head	1. GSM + Bluetooth
Body	1. GSM + 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 \le 50mm,Bluetooth standalone SAR is excluded according to [(max. power of channel, including tune-up tolerance, mW)/ (min. test separation distance, mm) $\cdot [\sqrt{f} (GHz)/x] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR
- 6. The reported SAR summation is calculated based on the same configuration and test position.
- 7. KDB 447498 / 4.3.2 (2) when standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:
 - a) (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 Power		Antenna	Frequency(GHz)	Stand alone
		dBm	mW	to user(mm)		SAR(1g) [W/kg]
ВТ	Head		1	5	2.402	0.041
	Body	0		10	2.402	0.021



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Simultaneous Mode	Position	Mode	Max. 1-g SAR (W/kg)	1-g Sum SAR (W/kg)	
	Head	GSM Voice	1.279	1.320	
GSM + Bluetooth	пеац	Bluetooth	0.041	1.320	
GSW + Blue(OO(I)	Pody	GSM Data	0.781	0.802	
	Body	Bluetooth	0.021	0.602	

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.





12. 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
E-Field Probe	MVG	SSE2	SN 45/15 EPGO281	2015.10.12	2016.10.11
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	GSM and WCDMA mobile phone POSITIONNIN G SYSTEM	SN 32/14 MSH97	N/A	N/A
SAR TEST BENCH	SATIMO	LAPTOP POSITIONNIN G 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 Meter	HP	EPM-442A	GB37170267	2015.10.24	2016.10.23
Power Sensor	R&S	NRP-Z11	101919	2015.10.24	2016.10.23
Power Sensor	HP	8481A	2702A65976	2015.10.24	2016.10.23
Network Analyzer	Agilent	5071C	EMY46103472	2015.12.12	2016.12.11
Attenuator 1	PE	PE7005-10	N/A	2015.10.25	2016.10.24
Attenuator 2	PE	PE7005-3	N/A	2015.10.24	2016.10.23
Attenuator 3	Woken	WK0602-XX	N/A	2015.12.12	2016.12.11
Dual Directional Coupler	Agilent	778D	50422	2015.11.18	2016.11.17



Appendix A. System Validation Plots

System Performance Check Data (835MHz Head)

Type: Phone measurement (Complete)

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

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

Date of measurement: 2016-04-08

Measurement duration: 13 minutes 27 seconds

Experimental conditions

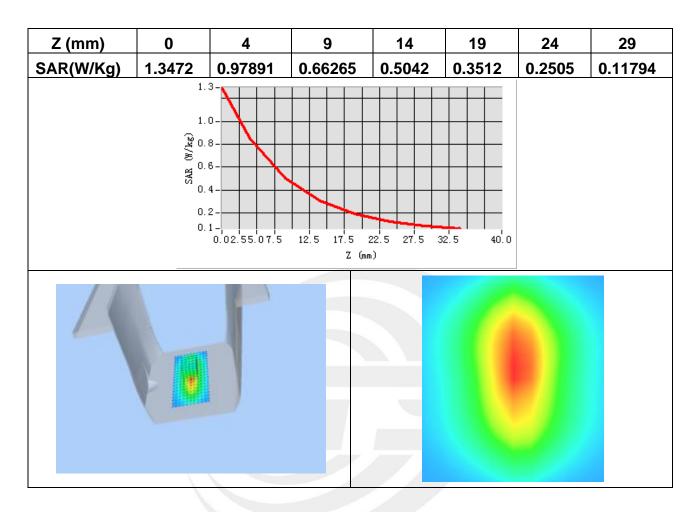
Phantom	Validation plane
Device Position	-
Band	835MHz
Channels	-
Signal	CW
Frequency (MHz)	835MHz
Relative permittivity (real part)	41.00
Relative permittivity	18.72
Conductivity (S/m)	0.86
Power drift (%)	0.45
Ambient Temperature:	22.7°C
Liquid Temperature:	22.3°C
ConvF:	1.78
Crest factor:	1:1

Maximum location: X=1.00, Y=0.00

SAR Peak: 1.40 W/kg

SAR 10g (W/Kg)	0.655627
SAR 1g (W/Kg)	0.967982







System Performance Check Data (835MHz Body)

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

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

Date of measurement: 2016-04-08

Measurement duration: 14 minutes 13 seconds

Experimental conditions.

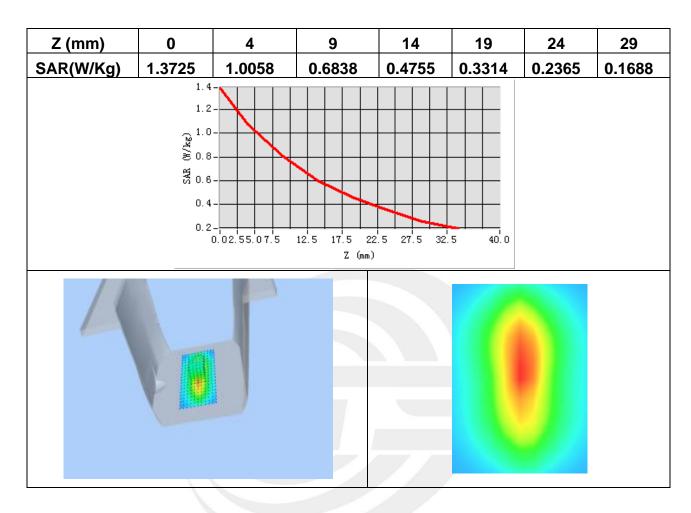
Probe	
Phantom	Validation plane
Device Position	•
Band	835MHz
Channels	-
Signal	CW
Frequency (MHz)	835MHz
Relative permittivity (real part)	54.70
Relative permittivity	21.408187
Conductivity (S/m)	0.98
Power drift (%)	0.090000
Ambient Temperature:	22.7°C
Liquid Temperature:	22.3°C
ConvF:	1.85
Crest factor:	1:1

Maximum location: X=1.00, Y=0.00

SAR Peak: 1.45 W/kg

SAR 10g (W/Kg)	0.613913
SAR 1g (W/Kg)	0.941052







System Performance Check Data (1900MHz Head)

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

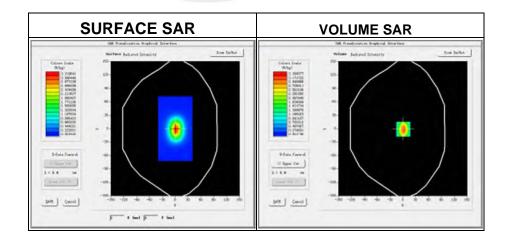
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2016-04-08

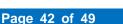
Measurement duration: 14 minutes 12 seconds

Experimental conditions.

Phantom	Validation plane
Device Position	-
Band	1900MHz
Channels	-
Signal	CW
Frequency (MHz)	1900MHz
Relative permittivity (real part)	39.50
Relative permittivity	13.26
Conductivity (S/m)	1.43
Power drift (%)	0.47
Ambient Temperature:	22.7°C
Liquid Temperature:	22.3°C
Probe	SN 45/15 EPGO281
ConvF:	2.10
Crest factor:	1:1





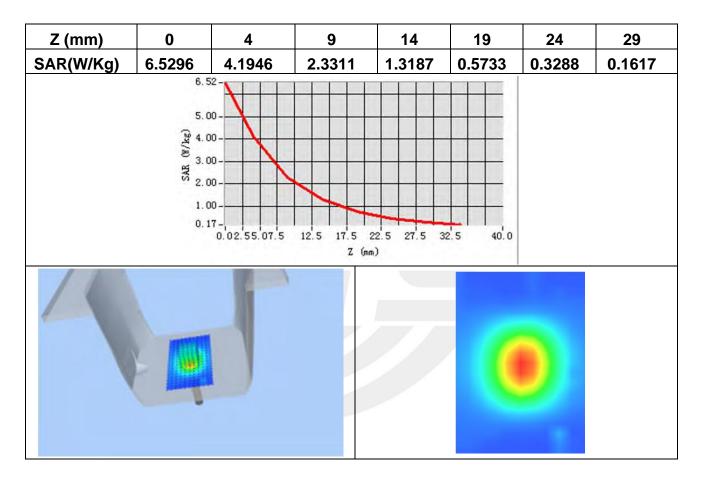


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Maximum location: X=1.00, Y=0.00

SAR Peak: 5.80 W/kg

SAR 10g (W/Kg)	2.064515
SAR 1g (W/Kg)	4.006632





System Performance Check Data (1900MHz Body)

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

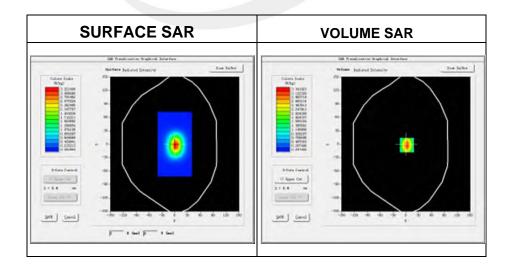
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2016-04-08

Measurement duration: 14 minutes 46 seconds

Experimental conditions.

Device Position	-
Band	1900MHz
Channels	-
Signal	CW
Frequency (MHz)	1900
Relative permittivity (real part)	52.31
Relative permittivity	12.87531
Conductivity (S/m)	1.5
Power drift (%)	0.37
Ambient Temperature:	22.7°C
Liquid Temperature:	22.3°C
Probe	SN 45/15 EPGO281
ConvF:	2.16
Crest factor:	1:1





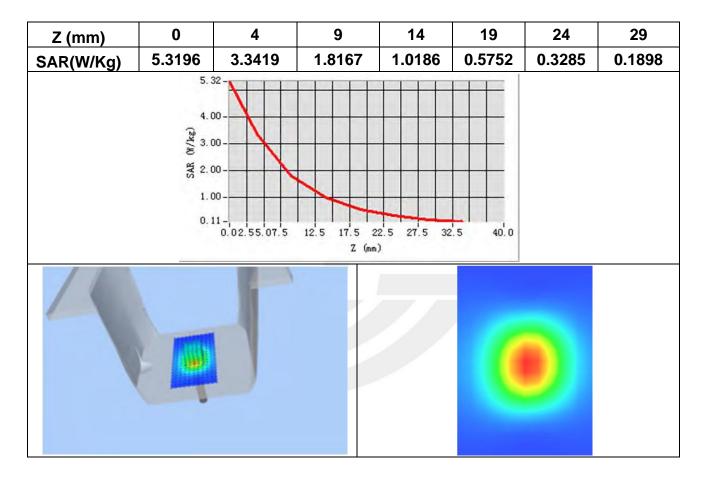




Maximum location: X=2.00, Y=2.00

SAR Peak: 5.30 W/kg

SAR 10g (W/Kg)	2.383383
SAR 1g (W/Kg)	4.160721







Appendix B. SAR Test Plots

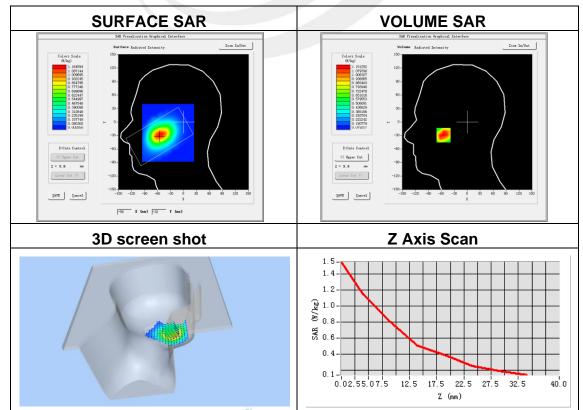
Plot 1: DUT: Mobile Phone; EUT Model: A2

Test Data	2016-04-08
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 45/15 EPGO281
ConvF	1.78
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Cheek
Band	GSM850
Channels	Middle
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	836.6
Relative permittivity (real part)	41.5
Conductivity (S/m)	0.90
Variation (%)	3.38

Maximum location: X=-55.00, Y=-29.00

SAR Peak: 1.78 W/kg

SAR 10g (W/Kg)	0.688567
SAR 1g (W/Kg)	1.131639



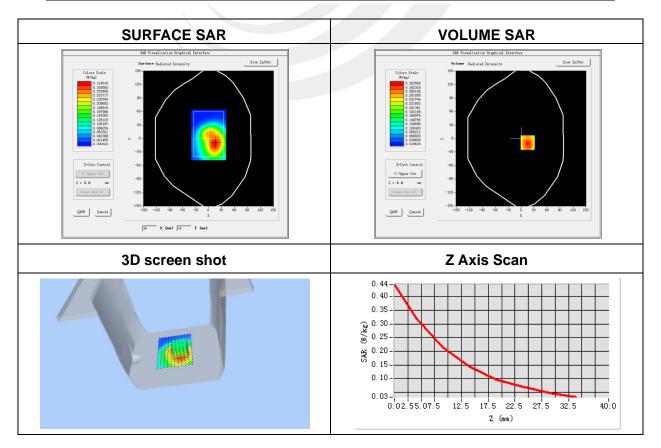


Plot 2: DUT: Mobile Phone; EUT Model: A2

Test Data	2016-04-08
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 45/15 EPGO281
ConvF	1.85
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 850
Channels	Middle
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	836.6
Relative permittivity (real part)	55.20
Conductivity (S/m)	0.97
Variation (%)	-1.50

Maximum location: X=15.00, Y=-9.00 SAR Peak: 0.44 W/kg

SAR 10g (W/Kg)	0.199149
SAR 1g (W/Kg)	0.305723





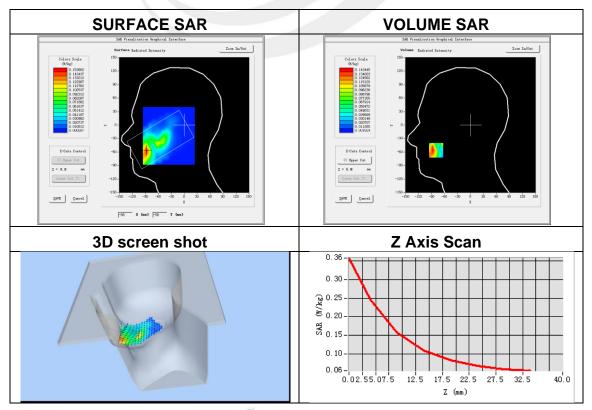
Plot 3: DUT: Mobile Phone; EUT Model: A2

Test Data	2016-04-08
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 45/15 EPGO281
ConvF	2.10
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	GSM1900
Channels	Low
Signal	TDMA (Crest factor: 4.0)
Frequency (MHz)	1850.2
Relative permittivity (real part)	40.00
Conductivity (S/m)	1.40
Variation (%)	-3.95

Maximum location: X=-80.00, Y=-56.00

SAR Peak: 0.23 W/kg

SAR 10g (W/Kg)	0.069168
SAR 1g (W/Kg)	0.134116



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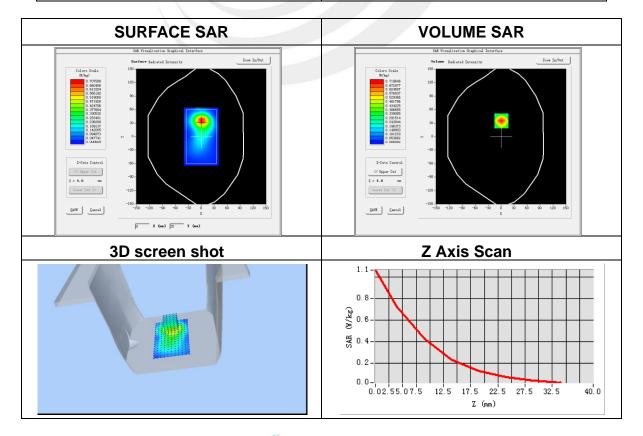


Plot 4: DUT: Mobile Phone; EUT Model: A2

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Test Data	2016-04-08
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 45/15 EPGO281
ConvF	2.16
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Behind
Band	GPRS 1900
Channels	Low
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	1850.2
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	0.03

Maximum location: X=1.00, Y=35.00 SAR Peak: 1.12 W/kg

OAD 40 (\M/\/\)	
SAR 10g (W/Kg)	0.347676
SAR 1g (W/Kg)	0.670948



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Appendix C. Probe Calibration And Dipole Calibration Report

Refer the appendix Calibration Report.



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