FCC SAR Measurement and Test Report

For

XPX TECHNOLOGY CO., LTD

Rm689B, Huafa 411 Bldg. Huafa N. Road, Futian, Shenzhen, China

FCC ID: 2ADIZ-X45

FCC 47 CFR Part 2 (2.1093)

ANSI/IEEE C95.1-1992

IEEE 1528-2003

KDB 865664 D01 v01r03

FCC Rules: KDB 865664 D02 v01r01

Product Description: Mobile Phone

Tested Model: <u>X45</u>

Report No.: STR14108214H

Tested Date: 2014-11-03 to 2014-11-08

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Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen SEM. Test Technology Co., Ltd.

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1. General Information

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: XPX TECHNOLOGY CO., LTD

Address of applicant: Rm689B, Huafa 411 Bldg. Huafa N. Road, Futian,

Shenzhen, China

Manufacturer: XPX TECHNOLOGY CO., LTD

Address of manufacturer: Flat2, 2/F, Wah Wai industrial Building, 53-61 Pak

Tin Par Street, Tsuen Wan, NT, HK

Mobile Phone
D3, XPX, ZILO
X45
D45Z, D46Z
M7209_MB_V1.1_140218
ALP.KK1.MP7.V1
356986022066542
DC 3.7V Battery
1600mAh
Portable Device

The EUT is dual band GSM850/PCS1900, WCDMA Band II/V, Mobile Phone. The Mobile Phone is intended for speech and Multimedia Message Service (MMS) transmission. It is equipped with GPRS/EDGE class 12 for GSM850/PCS1900 and Wi-Fi, Bluetooth, GPS, and camera functions. For more information see the following datasheet.

Note: The test data is gathered from a production sample, provided by the manufacturer. The other model listed in the report has different appearance only of X45 without circuit and electronic construction changed, declared by the manufacturer.

Technical Characteristics o	f EUT
2G	
Support Networks:	GSM, GPRS, EDGE
Support Band:	GSM850/PCS1900
Holink Fraguesov	GSM/GPRS/EDGE 850: 824~849MHz
Uplink Frequency:	GSM/GPRS/EDGE 1900: 1850~1910MHz
Downlink Fraguency	GSM/GPRS/EDGE 850: 869~894MHz
Downlink Frequency:	GSM/GPRS/EDGE 1900: 1930~1990MHz
RF Output Power:	GSM850: 32.10dBm, GSM1900: 29.75dBm

Type of Modulation:	GMSK, 8PSK		
Antenna Type:	Internal Antenna		
Antenna Gain:	GSM850:-1.36dBi, PCS1900: -0.30dBi,		
GPRS/EDGE Class:	Class 12		
3G			
Support Networks:	WCDMA, HSDPA, HSUPA		
Support Band:	WCDMA Band II, WCDMA Band V		
Haliah Francisco	WCDMA Band II: 1850~1980MHz		
Uplink Frequency:	WCDMA Band V: 824~849MHz		
Develor Francisco	WCDMA Band II: 1930~1990MHz		
Downlink Frequency:	WCDMA Band V: 869~894MHz		
RF Output Power:	WCDMA850: 22.33dBm, WCDMA1900: 21.95dBm		
Type of Modulation:	BPSK		
Antenna Type:	Integral Antenna		
Antenna Gain:	WCDMA850:-1.36dBi, WCDMA1900: -0.30dBi,		
WIFI			
Support Standards:	802.11b, 802.11g, 802.11n(HT20;HT40)		
Fraguency Donger	2412-2472MHz for 802.11b/b/n(HT20)		
Frequency Range:	2422-2462MHz for 802.11n(HT40)		
AV Output Power:	14.38dBm (Conducted)		
Type of Modulation:	CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM		
Data Rate:	1-11Mbps, 6-54Mbps, up to 150Mbps		
Quantity of Channels:	13 for 802.11b/b/n(HT20); 9 for 802.11n(HT40)		
Channel Separation:	5MHz		
Type of Antenna:	Integral		
Antenna Gain:	5.18dBi		
Bluetooth			
Bluetooth Version:	V4.0		
Frequency Range:	2402-2480MHz		
AV Output Power:	3.82dBm (Conducted)		
Data Rate:	1Mbps, 2Mbps, 3Mbps		
Modulation:	GFSK, Pi/4 QDPSK, 8DPSK		
Quantity of Channels:	79/40		
Channel Separation:	1MHz/2MHz		
Type of Antenna:	Integral		
. , p = 0. ,			

1.2 Test Standards

The following report is prepared on behalf of the XPX TECHNOLOGY CO., LTD in accordance with FCC 47 CFR Part 2.1093, ANSI/IEEE C95.1-1992, IEEE 1528-2003 and KDB 865664 D01 v01r03 and KDB 865664 D02 v01r01

The objective is to determine compliance with FCC Part 2.1093 of the Federal Communication Commissions rules.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with KDB 865664 D01 v01r03 and KDB 865664 D02 v01r01. The public notice KDB 447498 D01 v05r02 for Mobile and Portable Devices RF Exposure Procedure also.

1.4 Test Facility

• FCC – Registration No.: 934118

Shenzhen SEM.Test Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files and the Registration is 934118.

• Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Shenzhen SEM.Test Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

• CNAS Registration No.: L4062

Shenzhen SEM. Test Technology Co., Ltd. is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L4062. All measurement facilities used to collect the measurement data are located at 1/F, Building A, Hongwei Industrial Park, Liuxian 2nd Road, Bao'an District, Shenzhen, P.R.C (518101)

2. Summary of Test Results

The maximum results of Specific Absorption Rate (SAR) have found during testing are as follows:

Frequency Band	Position	SAR _{1g} (W/kg)	Scaled SAR _{1g} (W/kg)
GSM850	Head	0.3161	0.3466
GSM1900	Head	0.1122	0.1188
WCDMA Band II	Head	0.1611	0.1630
WCDMA Band V	Head	0.1662	0.1728
WLAN 2.4GHz	Head	0.0248	0.0255
GSM850	Body-worn (10mm Gap)	0.5133	0.5628
GSM1900	Body-worn (10mm Gap)	0.4156	0.4402
WCDMA Band II	Body-worn (10mm Gap)	0.5199	0.5259
WCDMA Band V	Body-worn (10mm Gap)	0.3377	0.3512
WLAN 2.4GHz	Body-worn (10mm Gap)	0.0121	0.0124
GSM850	Hotspot (10mm Gap)	0.6051	0.6681
GSM1900	Hotspot (10mm Gap)	0.3898	0.4177
WCDMA Band II	Hotspot (10mm Gap)	0.4953	0.5010
WCDMA Band V	Hotspot (10mm Gap)	0.3689	0.3836
WLAN 2.4GHz	Hotspot (10mm Gap)	0.0131	0.0135
GSM850 & WLAN 2.4GHz	Head		0.3721
GSM1900 & WLAN 2.4GHz	Head		0.1443
WCDMA Band II & WLAN 2.4GHz	Head		0.1885
WCDMA Band V& WLAN 2.4GHz	Head		0.1983
GSM850 & WLAN 2.4GHz	Body-worn (10mm Gap)		0.5752
GSM1900 & WLAN 2.4GHz	Body-worn (10mm Gap)		0.4526
WCDMA Band II & WLAN 2.4GHz	Body-worn (10mm Gap)		0.5383
WCDMA Band V& WLAN 2.4GHz	Body-worn (10mm Gap)		0.3636
GSM850 & WLAN 2.4GHz	Hotspot (10mm Gap)		0.6816
GSM1900 & WLAN 2.4GHz	Hotspot (10mm Gap)		0.4312
WCDMA Band II & WLAN 2.4GHz	Hotspot (10mm Gap)		0.5145
WCDMA Band V& WLAN 2.4GHz	Hotspot (10mm Gap)		0.3971

The highest reported SAR values for head, body-worn accessory, product specific (wireless router), and simultaneous transmission conditions are 0.35 W/kg, 0.56 W/kg, 0.67 W/kg, and 0.68 W/kg respectively.

The device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CFR Part 2.1093 and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedure specified in IEEE 1528-2003 and KDB 865664 D01 v01r03 and KDB 865664 D02 v01r01

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3. Specific Absorption Rate (SAR)

3.1 Introduction

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 techiques 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.

3.2 SAR Definition

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 either related to the temperature elevation in tissue by

$$SAR = C\left(\frac{\delta T}{\delta t}\right)$$

Where: C is the specific heat capacity, δ T is the temperature rise and δ t is the exposure duration, or 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.

However for evaluating SAR of low power transmitter, electrical field measurement is typically applied.

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4. SAR Measurement System

4.1 The Measurement System

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.

4.2 Probe

For the measurements the Specific Dosimetric E-Field Probe SSE5 SN 09/13 EP168 with following specifications is used

- Dynamic range: 0.01-100 W/kg

- Probe Length: 330 mm

- Length of Individual Dipoles: 4.5 mm- Maximum external diameter: 8 mm- Probe Tip External Diameter: 5 mm

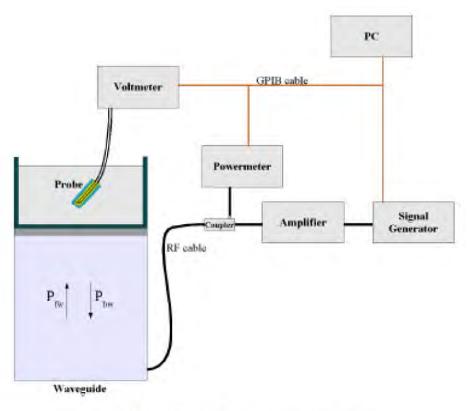
- Distance between dipoles / probe extremity: 2.7mm

- Probe linearity: <0.25 dB
- Axial Isotropy: <0.25 dB
- Spherical Isotropy: <0.50 dB

- Calibration range: 700 to 3000MHz for head & body simulating liquid.

Angle between probe axis (evaluation axis) and suface normal line:1ess than 30°

Probe calibration is realized, in compliance with EN 62209-1 and IEEE 1528 STD, with CALISAR, Antennessa proprietary calibration system. The calibration is performed with the EN 62209-1 annexe technique using reference guide at the five frequencies.



 $SAR = \frac{4\left(P_{fw} - P_{bw}\right)}{ab\delta} \cos^2\left(\pi \frac{y}{a}\right) e^{-(2z/\delta)}$

Where:

Pfw = Forward Power Pbw = Backward Power

a and b = Waveguide dimensions

I = Skin depth

Keithley configuration:

Rate = Medium; Filter = ON; RDGS = 10; Filter type = Moving Average; Range auto after each calibration, a SAR measurement is performed on a validation dipole and compared with a NPL calibrated probe, to verify it.

The calibration factors, CF(N), for the 3 sensors corresponding to dipole 1, dipole 2 and dipole 3 are:

$$CF(N)=SAR(N)/Vlin(N)$$
 (N=1,2,3)

The linearised output voltage Vlin(N) is obtained from the displayed output voltage V(N) using

$$Vlin(N)=V(N)*(1+V(N)/DCP(N))$$
 (N=1,2,3)

where DCP is the diode compression point in mV.

4.3 Probe Calibration Process

Dosimetric Assessment Procedure

Each E-Probe/Probe Amplifier combination has unique calibration parameters. SATIMO Probe calibration procedure is conducted to determine the proper amplifier settings to enter in the probe parameters. The amplifier settings are determined for a given frequency by subjecting the probe to a known E-field density (1 mW/cm2) using an with CALISAR, Antenna proprietary calibration system.

Free Space Assessment Procedure

The free space E-field from amplified probe outputs is determined in a test chamber. This calibration can be performed in a TEM cell if the frequency is below 1 GHz and in a waveguide or other methodologies above 1 GHz for free space. For the free space calibration, the probe is placed in the volumetric center of the cavity and at the proper orientation with the field. The probe is rotated 360 degrees until the three channels show the maximum reading. The power density readings equates to 1mW/cm2.

Temperature Assessment Procedure

E-field temperature correlation calibration is performed in a flat phantom filled with the appropriate simulated head tissue. The E-field in the medium correlates with the temperature rise in the dielectric medium. For temperature correlation calibration a RF transparent thermistor-based temperature probe is used in conjunction with the E-field probe.

Where:
$$\Delta t = \text{exposure time (30 seconds)},$$

$$C = \text{heat capacity of tissue (brain or muscle)},$$

$$\Delta T = \text{temperature increase due to RF exposure}.$$

SAR is proportional to $\Delta T/\Delta t$, the initial rate of tissue heating, before thermal diffusion takes place. The electric field in the simulated tissue can be used to estimate SAR by equating the thermally derived SAR to that with the E- field component.

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$$SAR = \frac{\left|\mathbf{E}\right|^2 \cdot \sigma}{\rho}$$

Where:

 $\sigma = \text{simulated tissue conductivity},$

 ρ = Tissue density (1.25 g/cm3 for brain tissue)

4.4 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.

4.5 Device Holder

The positioning system allows obtaining cheek and tilting position with a very good accuracy. In compliance with CENELEC, the tilt angle uncertainty is lower than 1°.



System Material	Permittivity	Loss Tangent
Delrin	3.7	0.005

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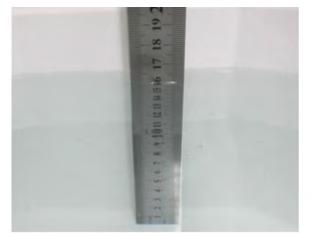
4.6 Test Equipment List

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
E-Field Probe	SATIMO	SSE5	SN 09/13 EP168	2014-03-21	2015-03-20
835MHz Dipole	SATIMO	SID835	SN 47/12 DIP 0G835-204	2013-11-26	2014-11-25
1900MHz Dipole	SATIMO	SID1900	SN 47/12 DIP 1G900-207	2013-11-26	2014-11-25
2450MHz Dipole	SATIMO	SID2450	SN 47/12 DIP 2G450-209	2013-11-26	2014-11-25
Dielectric Probe Kit	SATIMO	SCLMP	SN 47/12 OCPG49	2013-11-26	2014-11-25
SAM Phantom	SATIMO	SAM	SN/ 47/12 SAM95	N/A	N/A
MULTIMETER	KEITHLEY	Keithley 2000	4006367	2014-05-07	2015-05-06
Signal Generator	Rohde & Schwarz	SMR20	100047	2014-05-07	2015-05-06
Universal Tester	Rohde & Schwarz	CMU200	112012	2014-05-07	2015-05-06
Network Analyzer	HP	8753C	2901A00831	2014-05-07	2015-05-06
Data Acquisition Electronics	SATIMO	DAE4	915	2014-05-07	2015-05-06
Directional Couplers	Agilent	778D	20160	2014-05-07	2015-05-06

5. Tissue Simulating Liquids

5.1 Composition of Tissue Simulating Liquid

For the measurement of the field distribution inside the SAM phantom with SMTIMO, the phantom must be filled with around 25 liters of homogeneous body tissue simulating liquid. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm. Please see the following photos for the liquid height.



Liquid Height for Head SAR



Liquid Height for Body SAR

The Composition of Tissue Simulating Liquid

Frequency	Water	Salt	Triton	HEC	Preventol	DGBE
(MHz)	(%)	(%)	(%)	(%)	(%)	(%)
			Head			
835	35.34	0.98	0.00	0.00	63.68	0.00
1900	55.26	0.52	30.40	0.00	0.00	13.82
2450	55.44	0.32	30.50	0.00	0.00	13.74
			Body			
835	52.87	1.07	0.00	0.00	46.10	0.00
1900	69.99	0.41	20.66	0.00	0.00	8.93
2450	55.44	0.32	30.50	0.00	0.00	13.74

5.2 Tissue Dielectric Parameters for Head and Body Phantoms

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.

Towart Engagement	Не	ead	Во	ody	
Target Frequency	Conductivity	Permittivity	Conductivity	Permittivity	
(MHz)	(σ)	(E _r)	(σ)	(E _r)	
150	0.76	52.3	0.80	61.9	
300	0.87	45.3	0.92	58.2	
450	0.87	43.5	0.94	56.7	
835	0.90	41.5	0.97	55.2	
900	0.97	41.5	1.05	55.0	
915	0.98	41.5	1.06	55.0	
1450	1.20	40.5	1.30	54.0	
1610	1.29	40.3	1.40	53.8	
1800-2000	1.40	40.0	1.52	53.3	
2450	1.80	39.2	1.95	52.7	
3000	2.40	38.5	2.73	52.0	
5800	5.27	35.3	6.00	48.2	

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5.3 Tissue Calibration Result

The dielectric parameters of the liquids were verified prior to the SAR evaluation using COMOSAR Dielectric Probe Kit and an Agilent Network Analyzer.

Calibration Result for Dielectric Parameters of Tissue Simulating Liquid

	Head Tissue Simulating Liquid								
E-ma a	Томи	Conductivity			Permittivity			T ::4	
Freq. MHz.	Temp. (°C)	Reading	Target	Delta	Reading	Target	Delta	Limit (%)	Date
MITZ.	(0)	(σ)	(σ)	(%)	$(\mathcal{E}\mathbf{r})$	$(\mathcal{E}\mathbf{r})$	(%)	(70)	
835	21.2	0.87	0.90	-3.33	41.11	41.50	-0.94	±5	2014-11-03
1900	21.3	1.38	1.40	-1.43	38.56	40.00	-3.60	±5	2014-11-03
2450	21.3	1.74	1.80	-3.33	38.15	39.20	-2.68	±5	2014-11-03

	Body Tissue Simulating Liquid								
Emag	Tomn	Conductivity]	Permittivity	7	Limit	
Freq. MHz.	Temp. (℃)	Reading	Target	Delta	Reading	Target	Delta		Date
WIIIZ.	(0)	(σ)	(σ)	(%)	$(\mathcal{E}\mathbf{r})$	$(\mathcal{E}\mathbf{r})$	(%)	(%)	
835	21.2	0.95	0.97	-2.06	54.85	55.20	-0.63	±5	2014-11-03
1900	21.3	1.50	1.52	-1.32	52.42	53.30	-1.65	±5	2014-11-03
2450	21.3	1.91	1.95	-2.05	52.01	52.70	-1.31	±5	2014-11-03

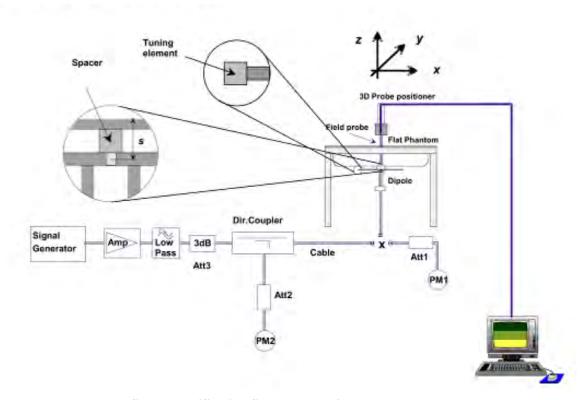
6. SAR Measurement Evaluation

6.1 Purpose of System Performance Check

The system performance check verifies that the system operates within its specifications. System and operator errors can be detected and corrected. It is recommended that the system performance check be performed prior to any usage of the system in order to guarantee reproducible results. The system performance check uses normal SAR measurements in a simplified setup with a well characterized source. This setup was selected to give a high sensitivity to all parameters that might fail or vary over time. The system check does not intend to replace the calibration of the components, but indicates situations where the system uncertainty is exceeded due to drift or failure.

6.2 System Setup

In the simplified setup for system evaluation, the EUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave which comes from a signal generator at frequency 835 MHz and 1900 MHz. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom.



System Verification Setup Block Diagram

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Setup Photo of Dipole Antenna

The output power on dipole port must be calibrated to 24 dBm (250 mW) before dipole is connected.

6.3 Validation Results

Comparing to the original SAR value provided by SATIMO, the validation data should be within its specification of 10 %. Table 6.1 shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance check can meet the variation criterion.

Frequency	Targeted SAR _{1g}	Measured SAR _{1g}	Normalized SAR _{1g}	Tolerance
MHz	(W/kg)	(W/kg)	(W/kg)	(%)
		Head		
835	9.82	2.40	9.61	-2.14
1900	40.79	9.98	39.91	-2.16
2450	52.50	12.81	51.25	-2.38
		Body		•
835	10.19	2.47	9.89	-2.94
1900	40.41	9.97	39.87	-1.34
2450	51.80	12.81	51.25	-1.06

Targeted and Measurement SAR

Please refer to Annex A for the plots of system performance check.

7. EUT Testing Position

7.1 Define Two Imaginary Lines on The Handset

(a) The vertical centerline passes through two points on the front side of the handset - the midpoint of the width w_t of the handset at the level of the acoustic output, and the midpoint of the width w_b of the bottom of the handset.

- (b) 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.
- (c) 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 parallel to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.

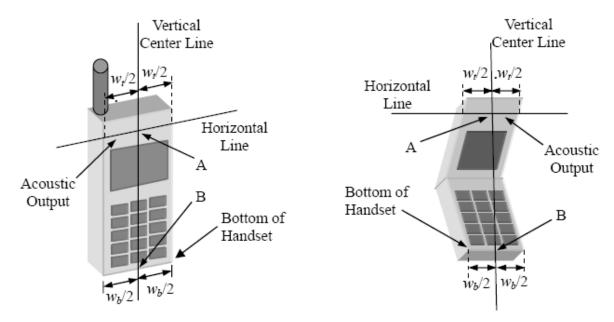
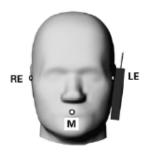


Illustration for Handset Vertical and Horizontal Reference Lines

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7.2 Cheek Position

(a) 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 three 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. (b) To move the device towards the phantom with the ear piece aligned with the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with the 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 (see Fig. 7.2).





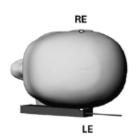


Illustration for Cheek Position

7.3 Tilted Position

- (a) To position the device in the "cheek" position described above.
- (b) While maintaining the device 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 contact with the ear is lost (see Fig. 7.3).





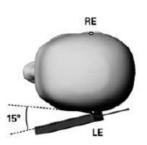


Illustration for Tilted Position

7.4 Body Position

- (a) To position the device parallel to the phantom surface with either keypad up or down.
- (b) To adjust the device parallel to the flat phantom.
- (c) To adjust the distance between the device surface and the flat phantom to 10mm.

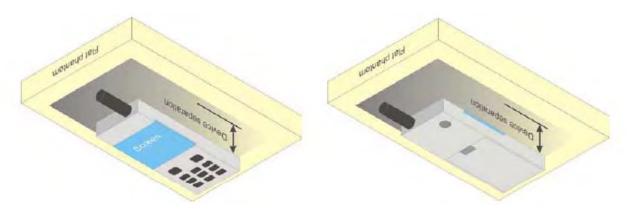


Illustration for Body Position

7.5 EUT Antenna Position



Top Side

Block Diagram for EUT Antenna Position

7.6 EUT Testing Position

Head/Body-worn/Hotspot mode SAR assessments are required for this device. This EUT was tested in different positions for different SAR test modes, more information as below:

	Head SAR tests									
Antennas	Right Cheek	Left Cheek	Right Tilted	Left Tilted						
WWAN	Yes	Yes	Yes	Yes						
WLAN	Yes	Yes	Yes	Yes						

	Hotspot SAR tests, Test distance: 10mm									
Antennas Front Back Right Side Left Side Top Side Bottom Si										
WWAN	Yes	Yes	Yes	Yes	No	Yes				
WLAN	Yes	Yes	No	Yes	Yes	No				

Body-worn SAR tests, Test distance: 10mm							
Antennas	Front	Back					
WWAN	Yes	Yes					
WLAN	Yes	Yes					

Remark:

1. Referring to KDB 941225 D06, when the overall device length and width are >= 9cm*5cm, the test separation is 10 mm. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge.

Please refer to Annex D for the EUT test setup photos.

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8. SAR Measurement Procedures

8.1 Measurement Procedures

The measurement procedures are as follows:

- (a) Use base station simulator (if applicable) or engineering software to transmit RF power continuously (continuous Tx) in the highest power channel.
- (b) Keep EUT to radiate maximum output power or 100% factor (if applicable)
- (c) Measure output power through RF cable and power meter.
- (d) Place the EUT in the positions as Annex E demonstrates.
- (e) Set scan area, grid size and other setting on the SATIMO software.
- (f) Measure SAR results for the highest power channel on each testing position.
- (g) Find out the largest SAR result on these testing positions of each band
- (h) Measure SAR results for other channels in worst SAR testing position if the SAR of highest power channel is larger than 0.8 W/kg

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- (a) Power reference measurement
- (b) Area scan
- (c) Zoom scan
- (d) Power drift measurement

8.2 Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The SATIMO software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine. The system always gives the maximum values for the 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- (a) Extraction of the measured data (grid and values) from the Zoom Scan
- (b) Calculation of the SAR value at every measurement point based on all stored data
- (c) Generation of a high-resolution mesh within the measured volume
- (d) Interpolation of all measured values form the measurement grid to the high-resolution grid
- (e) Extrapolation of the entire 3D field distribution to the phantom surface over the distance from sensor to surface
- (f) Calculation of the averaged SAR within masses of 1g and 10g

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8.3 Area & Zoom Scan Procedures

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 measures 5x5x7 points with step size 8, 8 and 5 mm for 300 MHz to 3 GHz, and 8x8x8 points with step size 4, 4 and 2.5 mm for 3 GHz to 6 GHz. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g.

8.4 Volume Scan Procedures

The volume scan is used for assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing (step-size is 4, 4 and 2.5 mm). When all volume scan were completed, the software can combine and subsequently superpose these measurement data to calculating the multiband SAR.

8.5 SAR Averaged Methods

The local SAR inside the phantom is measured using small dipole sensing elements inside a probe body. The probe tip must not be in contact with the phantom surface in order to minimize measurements errors, but the highest local SAR will occur at the surface of the phantom.

An extrapolation is using to determinate this highest local SAR values. The extrapolation is based on a fourth-order least-square polynomial fit of measured data. The local SAR value is then extrapolated from the liquid surface with a 1mm step.

The measurements have to be performed over a limited time (due to the duration of the battery) so the step of measurement is high. It could vary between 5 and 8 mm. To obtain an accurate assessment of the maximum SAR averaged over 10g and 1 g requires a very fine resolution in the three dimensional scanned data array.

8.6 Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In SATIMO measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drift more than 5%, the SAR will be retested.

9. SAR Test Result

9.1 Conducted RF Output Power

GSM - Burst Average Power (dBm)									
Band		GSM850			PCS1900				
Channel	128	128 190 251 512 661				810			
Frequency (MHz)	824.2	836.4	848.8	1850.2	1880	1909.8			
GSM	32.00	32.09	32.10	28.73	29.34	29.75			
GPRS (1 slot)	31.98	32.07	32.05	28.70	29.35	29.71			
GPRS (2 slots)	30.97	31.05	31.07	27.07	27.71	28.20			
GPRS (3 slots)	29.09	29.21	29.26	25.03	25.74	26.22			
GPRS (4 slots)	27.08	27.19	27.26	23.07	23.73	24.20			
EDGE(1 Slot)	26.4	26.36	26.31	27.67	27.54	27.62			
EDGE(2 Slot)	25.26	25.18	25.12	26.66	26.61	26.58			
EDGE(3 Slot)	23.02	23.04	22.96	24.74	24.54	24.46			
EDGE(4 Slot)	21.88	21.84	21.77	23.42	23.26	23.10			

GSN	GSM - Source-Based Time-Average Power (dBm)									
Band		GSM850		PCS1900						
Channel	128 190 251		512	661	810					
Frequency (MHz)	824.2	836.4	848.8	1850.2	1880	1909.8				
GSM	23.00	23.09	<mark>23.10</mark>	19.73	20.34	<mark>20.75</mark>				
GPRS (1 slot)	22.98	23.07	23.05	19.70	20.35	20.71				
GPRS (2 slots)	24.97	25.05	<mark>25.07</mark>	21.07	21.71	22.20				
GPRS (3 slots)	24.84	24.96	25.01	20.78	21.49	21.97				
GPRS (4 slots)	24.08	24.19	24.26	20.07	20.73	21.20				
EDGE(1 Slot)	17.40	17.36	17.31	18.67	18.54	18.62				
EDGE(2 Slot)	19.26	19.18	19.12	20.66	20.61	20.58				
EDGE(3 Slot)	18.77	18.79	18.71	20.49	20.29	20.21				
EDGE(4 Slot)	18.88	18.84	18.77	20.42	20.26	20.10				

Note: The source-based time-averaged power is linearly scaled the maximum burst averaged power based on time slots. The calculated method are shown as below:

Source based time-average power = Burst averaged power - Duty cycle factor in dB

Remark:

- 1. For Head SAR testing, GSM should be evaluated, therefore the EUT was set in GSM for GSM850 and GSM1900 due to its highest source-based time-average power.
- 2. For Body SAR testing, GPRS should be evaluated, therefore the EUT was set in GPRS (2 Tx slots) for GSM850 and GSM1900 due to its highest source-based time-average power.
- 3. Per KDB 447498 D01 v05r02, the maximum output power channel is used for SAR testing and for further SAR test reduction.
- 4. The DUT do not support DTM function.

	WCDMA - Average Power (dBm)									
Band	W	WCDMA Band V WCDM								
Channel	4132	4182	4233	9262	9400	9538				
Frequency (MHz)	826.4	836.4	846.6	1852.4	1880.0	1907.6				
RMC 12.2k	21.09	22.33	21.44	21.33	<mark>21.95</mark>	21.45				
HSDPA Subtest-1	21.14	22.18	21.52	20.46	20.47	21.04				
HSDPA Subtest-2	21.08	21.14	21.44	20.37	20.38	21.03				
HSDPA Subtest-3	21.05	21.15	21.11	20.26	20.23	20.81				
HSDPA Subtest-4	20.94	21.06	21.05	20.12	20.28	20.63				
HSDPA Subtest-5	20.82	21.00	20.95	20.42	20.18	20.46				
HSUPA Subtest-1	21.22	21.25	21.43	20.35	20.87	20.76				
HSUPA Subtest-2	21.12	21.21	21.24	20.26	20.59	20.71				
HSUPA Subtest-3	21.03	21.15	21.15	20.18	20.41	20.52				
HSUPA Subtest-4	21.00	21.08	21.00	20.11	20.26	20.42				

Remark:

- 1. For Head SAR, per KDB 941225 D01 v02, RMC 12.2kbps setting is used to evaluate SAR. If AMR 12.2kbps power is < 1/4 dB higher than RMC, SAR tests with AMR 12.2kbps can be excluded.
- 2. For Body SAR, per KDB 941225 D01 v02, RMC 12.2kbps setting is used to evaluate SAR. If HSDPA subset-1 output power is < 1/4 dB higher than RMC, and SAR with RMC 12.2kbps setting is \leq 1.2W/kg, HSDPA SAR evaluation can be excluded.

	WLAN	V - Maximum Average	e Power	
Test Mode	Data Rate	Channel	Frequency (MHz)	Average Power (dBm)
		CH 01	2412	14.38
802.11b	1Mbps	CH 07	2442	14.04
		CH 13	2472	13.63
	54Mbps	CH 01	2412	10.35
802.11g		CH 07	2442	9.92
		CH 13	2472	9.67
		CH 01	2412	10.65
802.11n (20MHz)	MCS7	CH 07	2442	10.16
		CH 13	2472	9.94
		CH 03	2422	9.36
802.11n (40MHz)	MCS7	CH 07	2442	8.95
		CH 11	2462	8.84

Remark:

- 1. Per KDB 248227 D01 v01r02, choose the highest output power channel to test SAR and determine further SAR exclusion
- 2. Per KDB 248227 D01 v01r02, if 11g and 11n average output power is higher than 1/4 dB higher than 11b mode, SAR will be verified.

3. 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 these configurations is less than 1/4 dB higher than those measured at the lowest data rate. For 802.11n mode, SAR test according to the highest power channel with correspondence data rates.

	Bluetooth - Maximum Average Power									
Test Mode	Data Rate	Channel	Frequency (MHz)	Average Power (dBm)						
		CH 00	2402	2.583						
GFSK	1Mbps	CH 39	2441	3.327						
		CH 78	2480	<mark>3.816</mark>						
		CH 00	2402	2.07						
8DPSK	3Mbps	CH 39	2441	2.74						
		CH 78	2480	3.181						
		CH 00	2402	-4.493						
BLE	1Mbps	CH 19	2442	-4.633						
		CH 39	2480	-4.19						

Remark:

Bluetooth maximum output power is 3.82dBm, and Tune-Up output power is 4.0dBm. Per KDB 648474 D01, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by: [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] \cdot [$\sqrt{f(GHz)}$] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR,16 where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation17
- The result is rounded to one decimal place for comparison

Tune-Up Power (dBm)	Max. Power (mW)	Distance (mm)	Frequency (GHz)	Result	Limit	
4.0	2.51	5	2.480	0.79	3	

The exclusion thresholds is 0.79< 3, therefore, the RF exposure evaluation is not required.

9.2 Test Results for Standalone SAR Test

Head SAR

	GSM850 – Head SAR Test											
Plot		Test Position	Frequency		Output	Rated	Sooling	SAR1g	Scaled			
No.	Mode	Head	СП	MHz	Power	Limit	Scaling Factor	(W/kg)	SAR1g			
110.		Heau	СН.	CII. WIIIZ	(dBm)	(dBm)	ractor	(W/Kg)	(W/kg)			
1	GSM	Right Cheek	251	848.8	32.10	32.5	1.10	<mark>0.3161</mark>	<mark>0.3466</mark>			
2	GSM	Right Tilted	251	848.8	32.10	32.5	1.10	0.1132	0.1241			
3	GSM	Left Cheek	251	848.8	32.10	32.5	1.10	0.2649	0.2905			
4	GSM	Left Tilted	251	848.8	32.10	32.5	1.10	0.0992	0.1088			

	GSM1900 – Head SAR Test											
Plot		Test Position	Frequency		Output	Rated	Saaling	SAR1g	Scaled			
No.	Mode	Head	CH. M Hz Power Limit (dBm) (dBm) Scaling Factor	(W/kg)	SAR1g							
110.		Heau		WI IIZ	(dBm)	(dBm)	ractor	(W/Kg)	(W/kg)			
12	GSM	Right Cheek	810	1909.8	29.75	30.0	1.06	0.0913	0.0967			
13	GSM	Right Tilted	810	1909.8	29.75	30.0	1.06	0.0276	0.0292			
14	GSM	Left Cheek	810	1909.8	29.75	30.0	1.06	<mark>0.1122</mark>	<mark>0.1188</mark>			
15	GSM	Left Tilted	810	1909.8	29.75	30.0	1.06	0.0136	0.0144			

	WCDMA Band II – Head SAR Test										
Plot		Test Postion	Freq	uency	Output	Rated	Caslina	SAR1g	Scaled		
No.	Mode	Head	СН.	MHz	Power	Limit	Scaling Factor	(W/kg)	SAR1g		
NO.		Heau	CH.	WIIIZ	(dBm)	(dBm)	ractor	(W/Kg)	(W/kg)		
23	RMC	Right Cheek	9400	1880.0	21.95	22.0	1.01	0.1338	0.1353		
24	RMC	Right Tilted	9400	1880.0	21.95	22.0	1.01	0.0418	0.0423		
25	RMC	Left Cheek	9400	1880.0	21.95	22.0	1.01	<mark>0.1611</mark>	<mark>0.1630</mark>		
26	RMC	Left Tilted	9400	1880.0	21.95	22.0	1.01	0.0188	0.0190		

	WCDMA Band V – Head SAR Test												
Plot		Test Postion	Freq	uency	Output	Rated	Scaling	SAR1g	Scaled				
No.	Mode	Head	СН.	MHz	Power	Limit	Factor	(W/kg)	SAR1g				
110.		IIcau	CII.	WIIIZ	(dBm)	(dBm)	ractor	(W/Kg)	(W/kg)				
34	RMC	Right Cheek	4182	836.4	22.33	22.5	1.04	<mark>0.1662</mark>	0.1728				
35	RMC	Right Tilted	4182	836.4	22.33	22.5	1.04	0.0546	0.0568				
36	RMC	Left Cheek	4182	836.4	22.33	22.5	1.04	0.1479	0.1538				
37	RMC	Left Tilted	4182	836.4	22.33	22.5	1.04	0.0587	0.0610				

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	WLAN 2.4GHz – Head SAR Test												
Plot		Test	Frequ	uency	Output	Rated	Scaling	SAR1g	Scaled				
No.	Mode	Postion	СН.	MHz	Power	Limit	Factor	(W/kg)	SAR1g				
140.		Head	CII.	WIIIZ	(dBm)	(dBm)	ractor	(W/Kg)	(W/kg)				
45	802.11b	Right Cheek	01	2412	14.38	14.5	1.03	<mark>0.0248</mark>	0.0255				
46	802.11b	Right Tilted	01	2412	14.38	14.5	1.03	0.0107	0.0110				
47	802.11b	Left Cheek	01	2412	14.38	14.5	1.03	0.0097	0.0100				
48	802.11b	Left Tilted	01	2412	14.38	14.5	1.03	0.0053	0.0054				

Remark: Per KDB 447498 D01 v05r02, if the highest output channel SAR for each exposure position ≤ 0.8 W/kg other channels SAR tests are not necessary.

Body-worn SAR

	GSM850 – Body SAR Test (Gap: 10mm)											
Plot		Tost Postion	Frequ	uency	Output	Rated	Scaling	SAR1g	Scaled			
No.	Mode		CH MH		Power	Limit		(W/kg)	SAR1g			
110.		Bouy	Cn.	CH. MHz		(dBm)	Factor	(vv/kg)	(W/kg)			
5	GSM	Back	251	848.8	32.10	32.5	1.10	0.5133	0.5628			
6	GSM	Front	Front 251 848.8 32.10 32.5 1.10									

	GSM1900 – Body SAR Test (Gap: 10mm)											
Plot		Tost Postion	Freq	Frequency		Output Rated		SAR1g	Scaled			
No.	Mode		CH MH		Power	Limit	Scaling		SAR1g			
110.		Bouy	Cn.	CH. MHz		(dBm)	Factor	(W/kg)	(W/kg)			
16	GSM	Back	810	1909.8	29.75	30.0	1.06	<mark>0.4156</mark>	0.4402			
17	GSM	M Front 810 1909.8 29.75 30.0 1.06 0.1708 0										

		WCDMA	Band II	- Body SA	R Test (G	ap: 10mm)		
Plot		Togt Dogtion	Freq	uency	Output	Rated	Scaling	SAR1g	Scaled
No.	Mode	Mode Test Postion Body		CII MII		Limit			SAR1g
NO.		Бойу	CH.	CH. MHz		(dBm)	Factor	(W/kg)	(W/kg)
32	RMC 12.2k	Back	9400	1880.0	21.95	22.0	1.01	<mark>0.5199</mark>	0.5259
33	33 RMC 12.2k Front 9400 1880.0 21.95 22.0 1.01 0.2640 0.2671								

	WCDMA Band V – Body SAR Test (Gap: 10mm)											
Plot		Test Postion	Rated	Caslina	CAD1a	Scaled						
No.	Mode		CH. MHz		Power	Limit	Scaling	SAR1g	SAR1g			
NO.		Body			(dBm)	(dBm)	Factor	(W/kg)	(W/kg)			
43	RMC 12.2k	Back	4182	836.4	22.33	22.5	1.04	<mark>0.3377</mark>	0.3512			
44	RMC 12.2k	Front	4182	836.4	22.33	22.5	1.04	0.1580	0.1643			

		,	WLAN 2.	4GHz –Boo	ly SAR Te	st			
Plot Test Frequency Output Rated Scaling SAR1g So									
No.	Mode	Postion	Postion Body CH. MHz		Power	Limit	Factor	Ü	SAR1g
110.		Body			(dBm)	(dBm)	ractor	(W/kg)	(W/kg)
53	802.11b	Back Side	01	2412	14.38	14.5	1.03	0.0121	0.0124
54	54 802.11b Front Side 01 2412 14.38 14.5 1.03 0.0057 0.0059								

Remark: Per KDB 447498 D01 v05r02, if the highest output channel SAR for each exposure position ≤ 0.8 W/kg other channels SAR tests are not necessary.

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Hotspot SAR

	GSM850 – Body SAR Test (Gap: 10mm)												
Plot		Test Postion	Freq	uency	Output	Rated	Scaling	SAR1g	Scaled				
No.	Mode	Body	СН.	MHz	Power	Limit	Factor	(W/kg)	SAR1g				
140.		Bouy	CII.	WIIIZ	(dBm)	(dBm)	ractor	(W/Kg)	(W/kg)				
7	GPRS_2TX	Back Side	251	848.8	31.07	31.5	1.10	<mark>0.6051</mark>	0.6681				
8	GPRS_2TX	Front Side	251	848.8	31.07	31.5	1.10	0.4083	0.4508				
9	GPRS_2TX	Bottom side	251	848.8	31.07	31.5	1.10	0.1229	0.1357				
10	GPRS_2TX	Right side	251	848.8	31.07	31.5	1.10	0.3323	0.3669				
11	GPRS_2TX	Left side	251	848.8	31.07	31.5	1.10	0.3341	0.3689				

	GSM1900 – Body SAR Test (Gap: 10mm)													
Plot		Test Postion	Freq	uency	Output	Rated	Scaling	SAR1g	Scaled					
No.	Mode	Body	СН.	MHz	Power	Limit	Factor	(W/kg)	SAR1g					
110.		Bouy	Cn.	MITZ	(dBm)	(dBm)	Factor	(W/Kg)	(W/kg)					
18	GPRS_2TX	Back Side	810	1909.8	28.20	28.5	1.07	<mark>0.3898</mark>	0.4177					
19	GPRS_2TX	Front Side	810	1909.8	28.20	28.5	1.07	0.1720	0.1843					
20	GPRS_2TX	Bottom side	810	1909.8	28.20	28.5	1.07	0.2263	0.2425					
21	GPRS_2TX	Right side	810	1909.8	28.20	28.5	1.07	0.0540	0.0579					
22	GPRS_2TX	Left side	810	1909.8	28.20	28.5	1.07	0.0869	0.0931					

		WCDMA	Band II	– Body SA	R Test (G	ap: 10mm)		
Plot		Test Postion	Freq	uency	Output	Rated	Scaling	SAR1g	Scaled
No.	Mode	Body	СН.	MHz	Power	Limit	Factor	(W/kg)	SAR1g
140.		Douy	CII.	WIIIZ	(dBm)	(dBm)	ractor	(W/Kg)	(W/kg)
27	RMC 12.2k	Back Side	9400	1880.0	21.95	22.0	1.01	<mark>0.4953</mark>	0.5010
28	RMC 12.2k	Front Side	9400	1880.0	21.95	22.0	1.01	0.2231	0.2257
29	RMC 12.2k	Bottom side	9400	1880.0	21.95	22.0	1.01	0.2538	0.2567
30	RMC 12.2k	Right side	9400	1880.0	21.95	22.0	1.01	0.0707	0.0715
31	RMC 12.2k	Left side	9400	1880.0	21.95	22.0	1.01	0.1116	0.1129

	WCDMA Band V – Body SAR Test (Gap: 10mm)													
Plot		Test Postion	Freq	uency	Output	Rated	Scaling	SAR1g	Scaled					
No.	Mode	Body	СН.	MHz	Power	Limit	Factor	(W/kg)	SAR1g					
110.		Douy	Cn.	MITZ	(dBm)	(dBm)	ractor	(W/Kg)	(W/kg)					
38	RMC 12.2k	Back Side	4182	836.4	22.33	22.5	1.04	<mark>0.3689</mark>	0.3836					
39	RMC 12.2k	Front Side	4182	836.4	22.33	22.5	1.04	0.2014	0.2094					
40	RMC 12.2k	Bottom side	4182	836.4	22.33	22.5	1.04	0.0507	0.0527					
41	RMC 12.2k	Right side	4182	836.4	22.33	22.5	1.04	0.1909	0.1985					
42	RMC 12.2k	Left side	4182	836.4	22.33	22.5	1.04	0.1782	0.1853					

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	WLAN 2.4GHz –Body SAR Test												
Plot		Test	Frequ	uency	Output	Rated	Scaling	SAR1g	Scaled				
No.	Mode	Postion	СН.	MHz	Power	Limit	Factor	(W/kg)	SAR1g				
110.		Body	CH.	MITZ	(dBm)	(dBm)	Factor	(vv/kg)	(W/kg)				
49	802.11b	Back Side	01	2412	14.38	14.5	1.03	<mark>0.0131</mark>	0.0135				
50	802.11b	Front Side	01	2412	14.38	14.5	1.03	0.0057	0.0059				
51	802.11b	Left side	01	2412	14.38	14.5	1.03	0.0098	0.0101				
52	802.11b	Top Side	01	2412	14.38	14.5	1.03	0.0049	0.0050				

Remark: Per KDB 447498 D01 v05r02, if the highest output channel SAR for each exposure position \leq 0.8 W/kg other channels SAR tests are not necessary.

9.3 Simultaneous Multi-band Transmission SAR Analysis

List of Mode for Simultaneous Multi-band Transmission

No.	Configurations	Head SAR	Body-worn SAR	Hotspot SAR
1	GSM + WLAN	Yes	Yes	-
2	GPRS + WLAN	-	-	Yes
3	WCDMA + WLAN	Yes	Yes	-
4	HSDPA + WLAN	-	-	Yes
5	HSUPA + WLAN	-	-	Yes
6	GSM + Bluetooth	Yes	Yes	-
7	GPRS + Bluetooth	-	-	Yes
8	WCDMA + Bluetooth	Yes	Yes	-
9	HSDPA + Bluetooth	-	-	Yes
10	HSUPA + Bluetooth	-	-	Yes

Remark:

- 1. GSM and WCDMA share the same antenna, and cannot transmit simultaneously.
- 2. WLAN and Bluetooth share the same antenna, and cannot transmit simultaneously.
- 3. According to the KDB 447498 D01v05r01, 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:

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

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

For simultaneous transmission analysis, WIFI/Bluetooth SAR is estimated per KDB 447498 D01v05r01 as below:

Bluetooth:

Tune-Up Power (dBm)	Max. Power (mW)	Distance (mm)	Frequency (GHz)	Х	SAR
4.0	2.51	5	2.480	7.5	0.1054

4. The maximum SAR summation is calculated based on the same configuration and test position.

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Head SAR WWAN and WLAN

	ww	'AN	WLAN	C
Position	Band	Scaled SAR	Scaled SAR	Summed SAR (W/kg)
		(W/kg)	(W/kg)	(··· 8/
Right Cheek	GSM850	0.3466	0.0255	0.3721
Right Tilted	GSM850	0.1241	0.0110	0.1351
Left Cheek	GSM850	0.2905	0.0100	0.3005
Left Tilted	GSM850	0.1088	0.0054	0.1142
Right Cheek	GSM1900	0.0967	0.0255	0.1222
Right Tilted	GSM1900	0.0292	0.0110	0.0402
Left Cheek	GSM1900	0.1188	0.0100	0.1288
Left Tilted	GSM1900	0.0144	0.0054	0.0198
Right Cheek	WCDMA Band II	0.1353	0.0255	0.1608
Right Tilted	WCDMA Band II	0.0423	0.0110	0.0533
Left Cheek	WCDMA Band II	0.1630	0.0100	0.1730
Left Tilted	WCDMA Band II	0.0190	0.0054	0.0244
Right Cheek	WCDMA Band V	0.1728	0.0255	0.1983
Right Tilted	WCDMA Band V	0.0568	0.0110	0.0678
Left Cheek	WCDMA Band V	0.1538	0.0100	0.1638
Left Tilted	WCDMA Band V	0.0610	0.0054	0.0664

WWAN and Bluetooth

	WW	VAN	Bluetooth	Commod CAD
Position	Band	Scaled SAR	Scaled SAR	Summed SAR (W/kg)
1 ostololi	Dunu	(W/kg)	(W/kg)	(11749)
Right Cheek	GSM850	0.3466	0.1054	0.4520
Right Tilted	GSM850	0.1241	0.1054	0.2295
Left Cheek	GSM850	0.2905	0.1054	0.3959
Left Tilted	GSM850	0.1088	0.1054	0.2142
Right Cheek	GSM1900	0.0967	0.1054	0.2021
Right Tilted	GSM1900	0.0292	0.1054	0.1346
Left Cheek	GSM1900	0.1188	0.1054	0.2242
Left Tilted	GSM1900	0.0144	0.1054	0.1198
Right Cheek	WCDMA Band II	0.1353	0.1054	0.2407
Right Tilted	WCDMA Band II	0.0423	0.1054	0.1477
Left Cheek	WCDMA Band II	0.1630	0.1054	0.2684
Left Tilted	WCDMA Band II	0.0190	0.1054	0.1244
Right Cheek	WCDMA Band V	0.1728	0.1054	0.2782
Right Tilted	WCDMA Band V	0.0568	0.1054	0.1622
Left Cheek	WCDMA Band V	0.1538	0.1054	0.2592
Left Tilted	WCDMA Band V	0.0610	0.1054	0.1664

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Body-worn SAR WWAN and WLAN

	WWAN		WLAN	Summed SAR
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	(W/kg)
Back	GSM850	0.5628	0.0121	0.5749
Front	GSM850	0.3975	0.0057	0.4032
Back	GSM1900	0.4402	0.0121	0.4523
Front	GSM1900	0.1809	0.0057	0.1866
Back	WCDMA Band II	0.5259	0.0121	0.5380
Front	WCDMA Band II	0.2671	0.0057	0.2728
Back	WCDMA Band V	0.3512	0.0121	0.3633
Front	WCDMA Band V	0.1643	0.0057	0.1700

WWAN and Bluetooth

	WWAN		Bluetooth	Summed SAR
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	(W/kg)
Back	GSM850	0.5628	0.1054	0.6682
Front	GSM850	0.3975	0.1054	0.5029
Back	GSM1900	0.4402	0.1054	0.5456
Front	GSM1900	0.1809	0.1054	0.2863
Back	WCDMA Band II	0.5259	0.1054	0.6313
Front	WCDMA Band II	0.2671	0.1054	0.3725
Back	WCDMA Band V	0.3512	0.1054	0.4566
Front	WCDMA Band V	0.1643	0.1054	0.2697

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Hotspot SAR WWAN and WLAN

	WWAN		WLAN	GIGAD	
Position	Band	Scaled SAR	Scaled SAR	Summed SAR	
Position	Danu	(W/kg)	(W/kg)	(W/kg)	
Back	GSM850	0.6681	0.0135	0.6816	
Front	GSM850	0.4508	0.0059	0.4567	
Top side	GSM850		0.0050	0.0050	
Bottom side	GSM850	0.1357		0.1357	
Right side	GSM850	0.3669		0.3669	
Left side	GSM850	0.3689	0.0101	0.3790	
Back	GSM1900	0.4177	0.0135	0.4312	
Front	GSM1900	0.1843	0.0059	0.1902	
Top side	GSM1900		0.0050	0.0050	
Bottom side	GSM1900	0.2425		0.2425	
Right side	GSM1900	0.0579		0.0579	
Left side	GSM1900	0.0931	0.0101	0.1032	
Back	WCDMA Band II	0.5010	0.0135	0.5145	
Front	WCDMA Band II	0.2257	0.0059	0.2316	
Top side	WCDMA Band II		0.0050	0.0050	
Bottom side	WCDMA Band II	0.2567		0.2567	
Right side	WCDMA Band II	0.0715		0.0715	
Left side	WCDMA Band II	0.1129	0.0101	0.123	
Back	WCDMA Band V	0.3836	0.0135	0.3971	
Front	WCDMA Band V	0.2094	0.0059	0.2153	
Top side	WCDMA Band V		0.0050	0.0050	
Bottom side	WCDMA Band V	0.0527		0.0527	
Right side	WCDMA Band V	0.1985		0.1985	
Left side	WCDMA Band V	0.1853	0.0101	0.1954	

WWAN and Bluetooth

	WWAN		Bluetooth	G1 GAD	
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	Summed SAR (W/kg)	
Back	GSM850	0.6681	0.1054	0.7735	
Front	GSM850	0.4508	0.1054	0.5562	
Top side	GSM850		0.1054	0.1054	
Bottom side	GSM850	0.1357	0.1054	0.2411	
Right side	GSM850	0.3669	0.1054	0.4723	
Left side	GSM850	0.3689	0.1054	0.4743	
Back	GSM1900	0.4177	0.1054	0.5231	
Front	GSM1900	0.1843	0.1054	0.2897	
Top side	GSM1900		0.1054	0.1054	
Bottom side	GSM1900	0.2425	0.1054	0.3479	
Right side	GSM1900	0.0579	0.1054	0.1633	
Left side	GSM1900	0.0931	0.1054	0.1985	
Back	WCDMA Band II	0.5010	0.1054	0.6064	
Front	WCDMA Band II	0.2257	0.1054	0.3311	
Top side	WCDMA Band II		0.1054	0.1054	
Bottom side	WCDMA Band II	0.2567	0.1054	0.3621	
Right side	WCDMA Band II	0.0715	0.1054	0.1769	
Left side	WCDMA Band II	0.1129	0.1054	0.2183	
Back	WCDMA Band V	0.3836	0.1054	0.489	
Front	WCDMA Band V	0.2094	0.1054	0.3148	
Top side	WCDMA Band V		0.1054	0.1054	
Bottom side	WCDMA Band V	0.0527	0.1054	0.1581	
Right side	WCDMA Band V	0.1985	0.1054	0.3039	
Left side	WCDMA Band V	0.1853	0.1054	0.2907	

10. Measurement Uncertainty

10.1 Uncertainty for EUT SAR Test

a	b	c	d	e= f(d,k)	f	g	h= c*f/e	i= c*g/e	k
Uncertainty Component	Sec.	Tol	Prob.	Div.	Ci (1g)	Ci (10g)	1g Ui	10g Ui	Vi
		(+- %)	Dist.				(+-%)	(+-%)	
Measurement System		r	ı	1	1		T		
Probe calibration	E.2.1	7.0	N	1	1	1	7.00	7.00	∞
Axial Isotropy	E.2.2	2.5	R	√3	(1_Cp)^1/2	(1_Cp)^1/2	1.02	1.02	œ
Hemispherical Isotropy	E.2.2	4.0	R	√3	(Cp)^1/2	(Cp)^1/2	1.63	1.63	~
Boundary effect	E.2.3	1.0	R	√3	1	1	0.58	0.58	×
Linearity	E.2.4	5.0	R	√3	1	1	2.89	2.89	×
System detection limits	E.2.5	1.0	R	√3	1	1	0.58	0.58	8
Readout Electronics	E.2.6	0.02	N	1	1	1	0.02	0.02	œ
Reponse Time	E.2.7	3.0	R	√3	1	1	1.73	1.73	8
Integration Time	E.2.8	2.0	R	√3	1	1	1.15	1.15	œ
RF ambient Conditions	E.6.1	3.0	R	√3	1	1	1.73	1.73	œ
Probe positioner Mechanical Tolerance	E.6.2	2.0	R	√3	1	1	1.15	1.15	«
Probe positioning with respect to Phantom Shell	E.6.3	0.05	R	√3	1	1	0.03	0.03	8
Extrapolation, interpolation and integration Algoritms for Max. SAR Evaluation	E.5.2	5.0	R	√3	1	1	2.89	2.89	8
Test Sample Related			•	•			•		
Test sample positioning	E.4.2.1	0.03	N	1	1	1	0.03	0.03	N-1
Device Holder Uncertainty	E.4.1.1	5.00	N	1	1	1	5.00	5.00	
Output power Variation - SAR	6.6.2	12.02	R	√3	1	1	6.94	6.94	8
drift measurement									
Phantom and Tissue Parameters									
Phantom Uncertainty (Shape and	E.3.1	0.05	R	√3	1	1	0.03	0.03	∞
thickness tolerances) Liquid conductivity - deviation	E.3.2	5.00	R	√3	0.64	0.43	1.85	1.24	
from target value	E.3.2	3.00	K	V3	0.04	0.43	1.83	1.24	
Liquid conductivity - measurement uncertainty	E.3.3	5.00	N	1	0.64	0.43	3.20	2.15	
Liquid permittivity - deviation from target value	E.3.2	0.37	R	√3	0.6	0.49	0.13	0.10	
Liquid permittivity -	E.3.3	10.00	N	1	0.6	0.49	6.00	4.90	M

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measurement uncertainty						
Combined Standard Uncertainty		RSS		12.98	12.53	
Expanded Uncertainty		K=2		25.32	24.43	
(95% Confidence interval)						

10.2 Uncertainty for System Performance Check

a	b	c	d	e= f(d,k)	f	g	h= c*f/e	i= c*g/e	k
Uncertainty Component	Sec.	Tol	Prob.	Div.	Ci (1g)	Ci (10g)	1g Ui	10g Ui	Vi
		(+- %)	Dist.				(+-%)	(+-%)	
Measurement System									
Probe calibration	E.2.1	7.0	N	1	1	1	7.00	7.00	∞
Axial Isotropy	E.2.2	2.5	R	√3	(1_Cp)^1/2	(1_Cp)^1/2	1.02	1.02	∞
Hemispherical Isotropy	E.2.2	4.0	R	√3	(Cp)^1/2	(Cp)^1/2	1.63	1.63	∞
Boundary effect	E.2.3	1.0	R	√3	1	1	0.58	0.58	∞
Linearity	E.2.4	5.0	R	√3	1	1	2.89	2.89	∞
System detection limits	E.2.5	1.0	R	√3	1	1	0.58	0.58	∞
Readout Electronics	E.2.6	0.02	N	1	1	1	0.02	0.02	∞
Reponse Time	E.2.7	3.0	R	√3	1	1	1.73	1.73	∞
Integration Time	E.2.8	2.0	R	√3	1	1	1.15	1.15	∞
RF ambient Conditions	E.6.1	3.0	R	√3	1	1	1.73	1.73	∞
Probe positioner Mechanical	E.6.2	2.0	R	√3	1	1	1.15	1.15	œ
Tolerance									
Probe positioning with respect to Phantom Shell	E.6.3	0.05	R	√3	1	1	0.03	0.03	œ
Extrapolation, interpolation and	E.5.2	5.0	R	√3	1	1	2.89	2.89	œ
integration Algoritms for Max.									
SAR Evaluation									
Dipole			I	L			L		
Dipole axis to liquid Distance	8,E.4.2	1.00	N	√3	1	1	0.58	0.58	N-1
Input power and SAR drift	8,6.6.2	12.02	R	√3	1	1	6.94	6.94	œ
measurement									
Phantom and Tissue Parameters									
Phantom Uncertainty (Shape and	E.3.1	0.05	R	√3	1	1	0.03	0.03	∞
thickness tolerances)									
Liquid conductivity - deviation	E.3.2	5.00	R	√3	0.64	0.43	1.85	1.24	
from target value									

Liquid condu	activity -	E.3.3	5.00	N	1	0.64	0.43	3.20	2.15	
measurement uncer	rtainty									
Liquid permittivit	y - deviation	E.3.2	0.37	R	$\sqrt{3}$	0.6	0.49	0.13	0.10	
from target value										
Liquid perm	ittivity -	E.3.3	10.00	N	1	0.6	0.49	6.00	4.90	M
measurement uncer										
Combined Standard Uncertainty				RSS				12.00	11.50	
Expanded Uncertai	nty			K=2				23.39	22.43	
(95% Confidence in	nterval)									

Annex A. Plots of System Performance Check

MEASUREMENT 1

For Head Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 11/03/2014

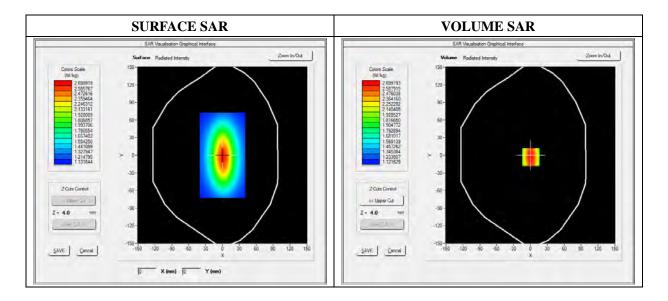
Measurement duration: 7 minutes 21 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.25; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	dx=8mm dy=8mm		
Phantom	Validation plane		
Device Position	Dipole		
Band	CW835		
Channels	Middle		
Signal	Duty Cycle 1:1		

Frequency (MHz)	835.000000
Relative Permittivity (real part)	41.110245
Conductivity (S/m)	0.871245
Power Variation (%)	1.814580
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	1.129489
SAR 1g (W/Kg)	2.40125

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	2.4900	1.8942	1.4811	1.3541	1.1123	1.0539
(W/Kg)							
	2.3 	50 - 25 - 00 - 75 - 50 -	7.5 10.0 12.515	5.0 17.520.0 22.5 Z (mm)	525.0 27.530.0 3	2.535.0	

3D screen shot	Hot spot position

For Head Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 11/03/2014

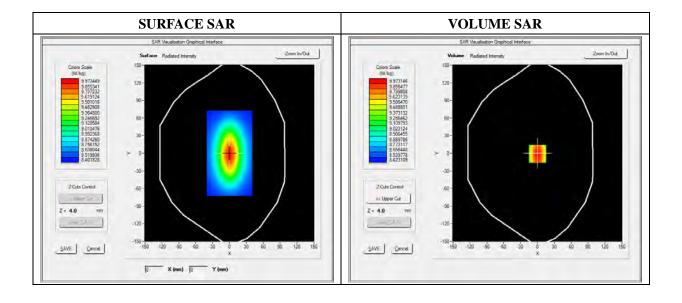
Measurement duration: 12 minutes 21 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.16; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	dx=8mm dy=8mm		
Phantom	Validation plane		
Device Position	Dipole		
Band	CW1900		
Channels	Middle		
Signal	Duty Cycle 1:1		

Frequency (MHz)	1900.000000
Relative Permittivity (real part)	38.560124
Conductivity (S/m)	1.380369
Power Variation (%)	1.022540
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	7.174526
SAR 1g (W/Kg)	9.983214

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	10.2354	6.8400	5.0121	4.1189	3.0522	2.8424
	10.30 9.00 7.00 8 SS 5.00 3.00 2.50)-	7.5 10.0 12.5 15.	0 17.520.0 22.5 Z (mm)	25.0 27.5 30.0 3	2.5 35.0	

3D screen shot	Hot spot position			

For Head Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 11/03/2014

Measurement duration: 12 minutes 21 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.51; Calibrated: 03/21/2014

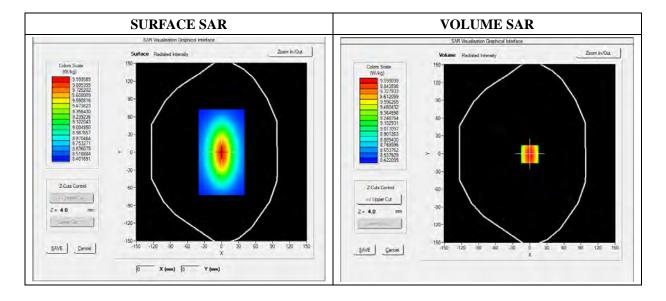
A. Experimental conditions

Area Scan	dx=8mm dy=8mm		
Phantom	Validation plane		
Device Position	Dipole		
Band	CW2450		
Channels	Middle		
Signal	Duty Cycle 1:1		

B. SAR Measurement Results

Middle Band SAR

Frequency (MHz)	2450.000000		
Relative Permittivity (real part)	38.153660		
Conductivity (S/m)	1.740236		
Power Variation (%)	1.141452		
Ambient Temperature	21.1		
Liquid Temperature	21.2		

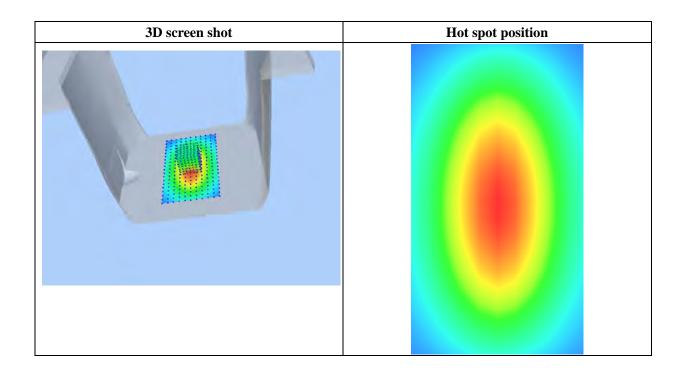


Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	8.020427
SAR 1g (W/Kg)	12.812457

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	14.1034	12.0012	10.2624	7.4715	5.9022	4.5114
(W/Kg)							
	14.27 13.25 10.60 WW 7.77 EV 6.50 4.05 3.03	7-	7.5 10.0 12.5 15.	0 17.520.0 22.5 Z (mm)	25.0 27.5 30.0 32	2.5 35.0	



For Body Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 11/03/2014

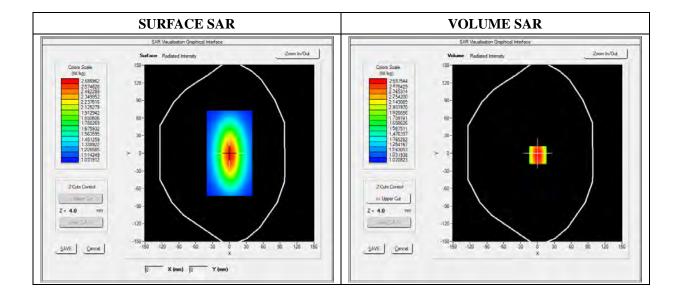
Measurement duration: 12 minutes 21 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	dx=8mm dy=8mm		
Phantom	Validation plane		
Device Position	Dipole		
Band	CW835		
Channels	Middle		
Signal	Duty Cycle 1:1		

Frequency (MHz)	835.000000		
Relative Permittivity (real part)	54.851214		
Conductivity (S/m)	0.951454		
Power Variation (%)	0.901472		
Ambient Temperature	21.1		
Liquid Temperature	21.3		

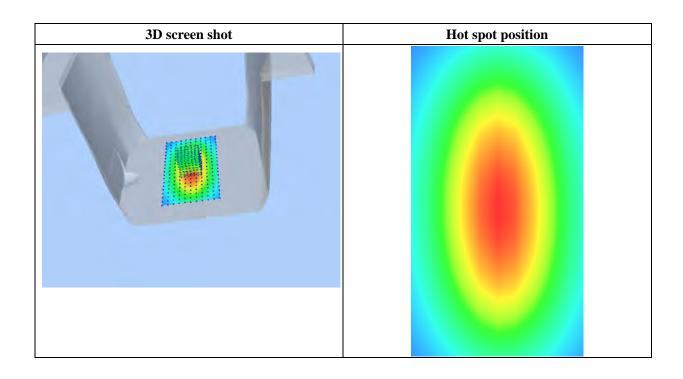


Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	1.028956
SAR 1g (W/Kg)	2.474211

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	2.5789	1.1300	0.8795	0.5940	0.5011	0.5100
(W/Kg)							
	2.600 1.45 — 1.20 0.95 0.70 0.55 0.40			0 17.520.0 22.5 Z (mm)	25.0 27.5 30.0 32	.5 35.0	



For Body Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 11/03/2014

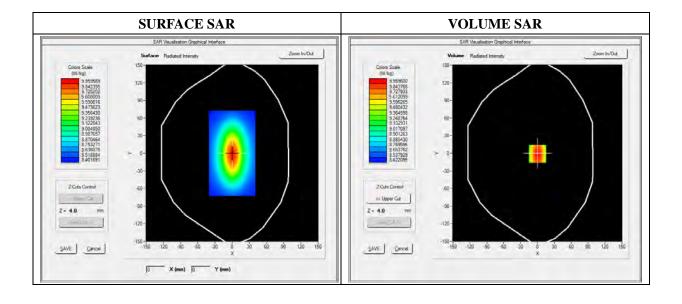
Measurement duration: 12 minutes 21 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	dx=8mm dy=8mm		
Phantom	Validation plane		
Device Position	Dipole		
Band	CW1900		
Channels	Middle		
Signal	Duty Cycle 1:1		

Frequency (MHz)	1900.000000		
Relative Permittivity (real part)	52.420415		
Conductivity (S/m)	1.501966		
Power Variation (%)	0.541872		
Ambient Temperature	21.1		
Liquid Temperature	21.3		

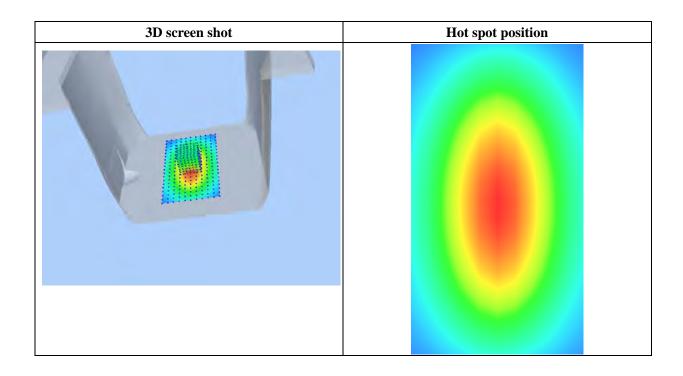


Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	5.134651
SAR 1g (W/Kg)	9.981550

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	10.2031	6.43001	4.9011	4.5325	3.1201	2.5024
	10.3 9.2	5-					
	_7.60 _ SAR (W/kg	0-					
	4.7	0-					
3.00 - 2.00 - 0.0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0 27.5 30.0 32.5 35.0 Z (mm)							



For Body Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 11/03/2014

Measurement duration: 12 minutes 21 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.70; Calibrated: 03/21/2014

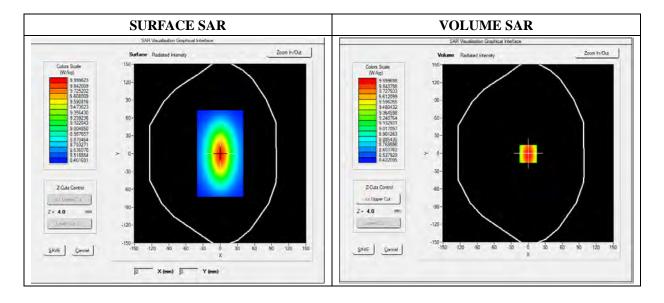
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Validation plane
Device Position	Dipole
Band	CW2450
Channels	Middle
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Middle Band SAR

Frequency (MHz)	2450.000000
Relative Permittivity (real part)	52.0102121
Conductivity (S/m)	1.910255
Power Variation (%)	1.369745
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	7.119522
SAR 1g (W/Kg)	12.81236

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	13.3911	11.7951	9.2945	8.5400	6.3712	4.6225
(W/Kg)							
	13.27 12.25 7.60 WW 6.17 4.50 3.05 2.03	5- 7- 10- 15- 15-	7.5 10.0 12.5 15.	0 17.520.0 22.5 Z (mm)	25.0 27.5 30.0 3	2.5 35.0	

3D screen shot	Hot spot position

Annex B. Plots of SAR Measurement

TYPE	BAND	<u>PARAMETERS</u>
Phone	GSM850	Measurement 1:Right Head with Cheek device position on High Channel in GSM mode
Phone	GSM850	Measurement 2: Right Head with Tilt device position on High Channel in GSM mode
Phone	GSM850	Measurement 3: Left Head with Cheek device position on High Channel in GSM mode
Phone	GSM850	Measurement 4: Left Head with Tilt device position on High Channel in GSM mode
Phone	GSM850	Measurement 5: Flat Plane with Back(Body-worn) device position on High Channel in GSM mode
Phone	GSM850	Measurement 6: Flat Plane with Front(Body-worn) device position on High Channel in GSM mode
Phone	GPRS850_2TX	Measurement 7: Flat Plane with Back device position on High Channel in GPRS mode
Phone	GPRS850_2TX	Measurement 8: Flat Plane with Front device position on High Channel in GPRS mode
Phone	GPRS850_2TX	Measurement 9: Flat Plane with Bottom side device position on HighChannel in GPRS mode
Phone	GPRS850_2TX	Measurement 10: Flat Plane with Right side device position on High Channel in GPRS mode
Phone	GPRS850_2TX	Measurement 11: Flat Plane with Left side device position on High Channel in GPRS mode
Phone	GSM1900	Measurement 12: Right Head with Cheek device position on High Channel in GSM mode
Phone	GSM1900	Measurement 13: Right Head with Tilt device position on High Channel in GSM mode
Phone	GSM1900	Measurement 14: Left Head with Cheek device position on High Channel in GSM mode
Phone	GSM1900	Measurement 15: Left Head with Tilt device position on High Channel in GSM mode
Phone	GSM1900	Measurement 16: Flat Plane with Back(Body-worn) device position on High Channel in GSM mode
Phone	GSM1900	Measurement 17: Flat Plane with Front(Body-worn) device position on High Channel in GSM mode
Phone	GPRS1900_2TX	Measurement 18: Flat Plane with Back device position on High Channel in GPRS mode
Phone	GPRS1900_2TX	Measurement 19: Flat Plane with Front device position on High Channel in GPRS mode

DI	CDDC1000 2TV	Measurement 20: Flat Plane with Bottom side device
Phone	GPRS1900_2TX	position on High Channel in GPRS mode
Phone	GPRS1900_2TX	Measurement 21: Flat Plane with Right side device
1 Hone	G1 K51900_21A	position on High Channel in GPRS mode
Phone	GPRS1900_2TX	Measurement 22: Flat Plane with Left side device
I Hone	G1 K51700_2174	position on High Channel in GPRS mode
Phone	WCDMA1900_RMC	Measurement 23: Right Head with Cheek device
	// 021/212/00_12/00	position on Middle Channel in WCDMA mode
Phone	WCDMA1900_RMC	Measurement 24: Right Head with Tilt device position
	_	on Middle Channel in WCDMA mode
Phone	WCDMA1900_RMC	Measurement 25: Left Head with Cheek device position
		on Middle Channel in WCDMA mode
Phone	WCDMA1900_RMC	Measurement 26: Left Head with Tilt device position on Middle Channel in WCDMA mode
		Measurement 27: Flat Plane with Back device position
Phone	WCDMA1900_RMC	on Middle Channel in WCDMA mode
		Measurement 28: Flat Plane with Front device position
Phone	WCDMA1900_RMC	on Middle Channel in WCDMA mode
		Measurement 29: Flat Plane with Bottom side device
Phone	WCDMA1900_RMC	position on Middle Channel in WCDMA mode
		Measurement 30: Flat Plane with Right side device
Phone	WCDMA1900_RMC	position on Middle Channel in WCDMA mode
DI	WCDMA 1000 DMC	Measurement 31: Flat Plane with Left side device
Phone	WCDMA1900_RMC	position on Middle Channel in WCDMA mode
Phone	WCDMA1900_RMC	Measurement 32: Flat Plane with Back(Body-worn)
1 Hone	WCDMA1900_RMC	device position on Middle Channel in WCDMA mode
Phone	WCDMA1900_RMC	Measurement 33: Flat Plane with Front(Body-worn)
	VV CDIVITI700_ICVIC	device position on Middle Channel in WCDMA mode
Phone	WCDMA850_RMC	Measurement 34: Right Head with Cheek device
	_	position on Middle Channel in WCDMA mode
Phone	WCDMA850_RMC	Measurement 35: Right Head with Tilt device position
		on Middle Channel in WCDMA mode
Phone	WCDMA850_RMC	Measurement 36: Left Head with Cheek device position on Middle Channel in WCDMA mode
		Measurement 37: Left Head with Tilt device position
Phone	WCDMA850_RMC	on Middle Channel in WCDMA mode
		Measurement 38: Flat Plane with Back device position
Phone	WCDMA850_RMC	on Middle Channel in WCDMA mode
	W(CD) (1.050 D) 50	Measurement 39: Flat Plane with Front device position
Phone	WCDMA850_RMC	on Middle Channel in WCDMA mode
D1	WCDMA 050 DAG	Measurement 40: Flat Plane with Bottom side device
Phone	WCDMA850_RMC	position on Middle Channel in WCDMA mode
Phone	WCDMA850_RMC	Measurement 41: Flat Plane with Right side device

		position on Middle Channel in WCDMA mode	
Dhomo	WCDMA 050 DMC	Measurement 42: Flat Plane with Left side device	
Phone	WCDMA850_RMC	position on Middle Channel in WCDMA mode	
Dhomo	WCDMA 050 DMC	Measurement 43: Flat Plane with Back(Body-worn)	
Phone	WCDMA850_RMC	device position on Middle Channel in WCDMA mode	
Phone	WCDMA 050 DMC	Measurement 44: Flat Plane with Front(Body-worn)	
Phone	WCDMA850_RMC	device position on Middle Channel in WCDMA mode	
Tablet	W:E: 002 11b	Measurement 45: Right Head with Cheek device	
Tablet	WiFi_802.11b	position on Low Channel in 802.11b mode	
Tablet	W:E: 002 11b	Measurement 46: Right Head with Tilt device position	
Tablet	WiFi_802.11b	on Low Channel in 802.11b mode	
Tablet	W;E; 202 11b	Measurement 47: Left Head with Cheek device position	
Tablet	WiFi_802.11b	on Low Channel in 802.11b mode	
Tablet	WiFi_802.11b	Measurement 48: Left Head with Tilt device position	
Tablet	WIF1_002.11D	on Low Channel in 802.11b mode	
Tablet	WiFi_802.11b	Measurement 49: Flat Plane with Back side device	
Tablet	VVII 1_002.11D	position on Low Channel in 802.11b mode	
Tablet	WiFi_802.11b	Measurement 50: Flat Plane with Front side device	
Tablet	VVII ¹ 1_002.11D	position on Low Channel in 802.11b mode	
Tablet	WiFi_802.11b	Measurement 51: Flat Plane with Left side device	
Tablet	VVII ¹ 1_002.11D	position on Low Channel in 802.11b mode	
Tablet	WiFi_802.11b	Measurement 52: Flat Plane with Top side device	
Tablet	VIII_002.110	position on Low Channel in 802.11b mode	
Tablet	WiFi_802.11b	Measurement 53: Flat Plane with Back(Body-worn)	
Tablet	VVII 1_002.IIV	device position on Low Channel in 802.11b mode	
Tablet	WiFi_802.11b	Measurement 54: Flat Plane with Front(Body-worn)	
Tablet	**************************************	device position on Low Channel in 802.11b mode	

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Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

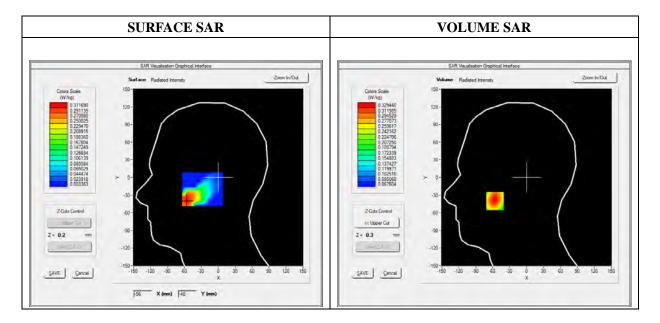
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.25; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Right head	
Device Position	Cheek	
Band	GSM850	
Channels	High	
Signal	Duty Cycle 1:8.3	

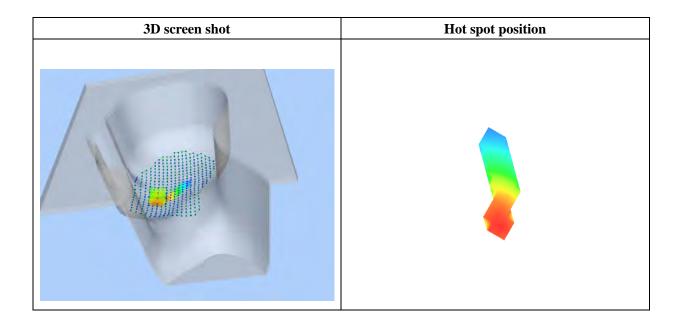
Frequency (MHz)	848.799988
Relative Permittivity (real part)	41.110245
Conductivity (S/m)	0.871245
Power Variation (%)	1.814580
Ambient Temperature	21.1
Liquid Temperature	21.3



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

SAR 10g (W/Kg)	0.233542	
SAR 1g (W/Kg)	0.316127	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.3294	0.2636	0.2095	0.1650
	0.329-				
	0.300-	\rightarrow			
	0.275	\rightarrow			
		\rightarrow			
	0.250- 0.225- % 0.200-	\rightarrow	\rightarrow		
	o.200-		\rightarrow		
	0.175-	-	\rightarrow		
	0.150-				
	0.127- 0.0 2.	F FO 7F 100	12.5 15.0 17.5	20.0 22.5 25.0	
	0.0 2.5	5 5.0 7.5 10.0	Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

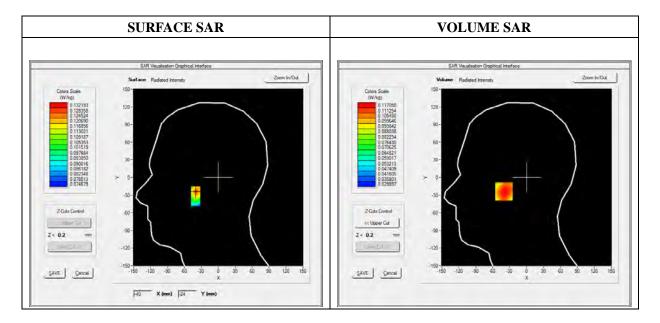
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.25; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Tilt
Band	GSM850
Channels	High
Signal	Duty Cycle 1:8.3

Frequency (MHz)	848.799988
Relative Permittivity (real part)	41.110245
Conductivity (S/m)	0.871245
Power Variation (%)	1.814580
Ambient Temperature	21.1
Liquid Temperature	21.3



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

SAR 10g (W/Kg)	0.087051
SAR 1g (W/Kg)	0.113157

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1171	0.0943	0.0774	0.0649
	0.12- 0.11- 0.10- 0.09- WS 0.08- 0.07- 0.06- 0.05- 0.0 2.5	5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	

3D screen shot	Hot spot position

Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

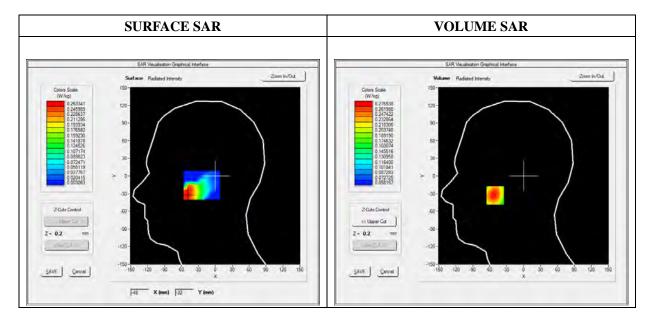
Measurement duration: 11 minutes 48 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.25; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Left head
Device Position	Cheek
Band	GSM850
Channels	High
Signal	Duty Cycle 1:8.3

Frequency (MHz)	848.799988
Relative Permittivity (real part)	41.110245
Conductivity (S/m)	0.871245
Power Variation (%)	1.814580
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-50.00, Y=-33.00

SAR 10g (W/Kg)	0.196119
SAR 1g (W/Kg)	0.264863

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.2765	0.2211	0.1769	0.1414
	0.28- 0.26- 0.24- 0.22- 0.22- 0.18- 0.16- 0.14- 0.11- 0.0 2.5				

3D screen shot	Hot spot position

Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

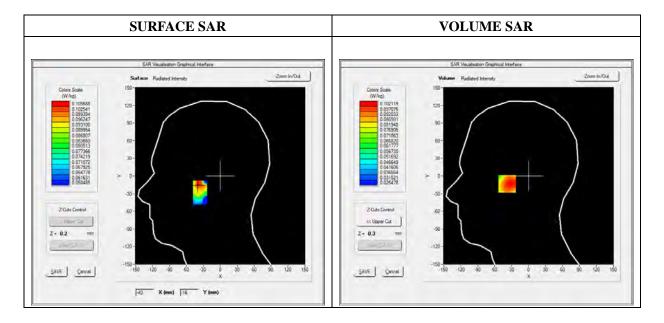
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.25; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Left head
Device Position	Tilt
Band	GSM850
Channels	High
Signal	Duty Cycle 1:8.3

Frequency (MHz)	848.799988
Relative Permittivity (real part)	41.110245
Conductivity (S/m)	0.871245
Power Variation (%)	1.814580
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-38.00, Y=-13.00

SAR 10g (W/Kg)	0.077874
SAR 1g (W/Kg)	0.099222

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1001	0.0855	0.0714	0.0581
	-0.10 -0.09 -80.0 8 -70.0 VW				
	0.05-	5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	

3D screen shot	Hot spot position

Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

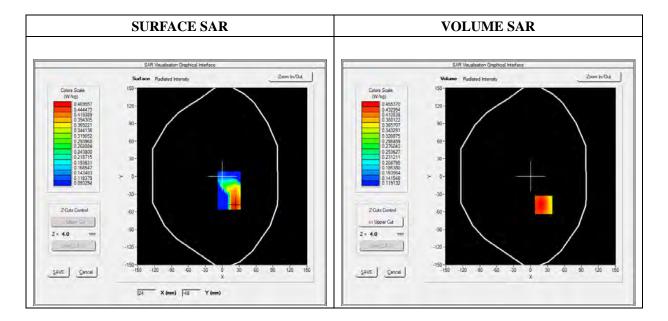
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Back(Body-worn)
Band	GSM850
Channels	High
Signal	Duty Cycle 1:8.3

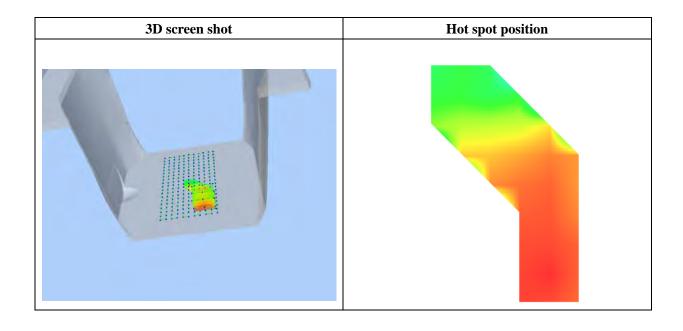
Frequency (MHz)	848.799988
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.901472
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=23.00, Y=-48.00

SAR 10g (W/Kg)	0.385466
SAR 1g (W/Kg)	0.513337

19.00
0.2226
0
25



Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

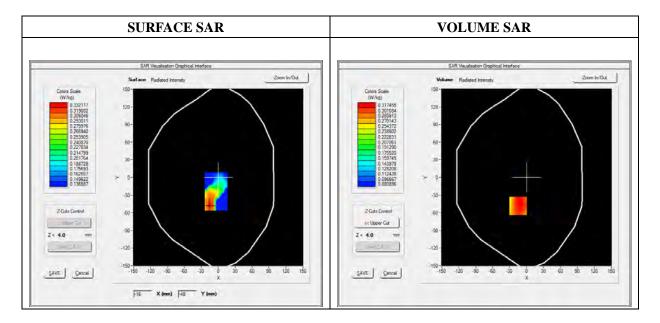
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Front(Body-worn)
Band	GSM850
Channels	High
Signal	Duty Cycle 1:8.3

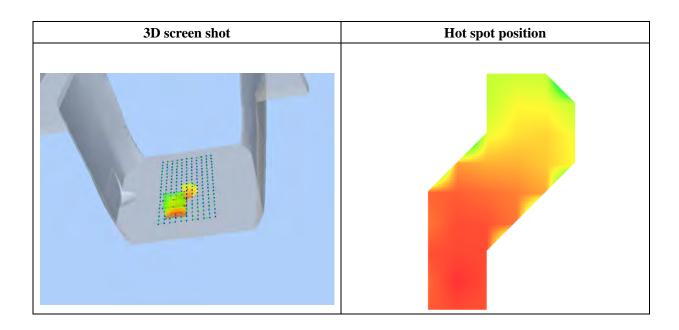
Frequency (MHz)	848.799988
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.901472
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-15.00, Y=-48.00

SAR 10g (W/Kg)	0.269772
SAR 1g (W/Kg)	0.362484

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.3146	0.2449	0.1932	0.1549
	0.315- 0.300- 0.275- 0.250- W 0.225- W 0.200- 0.175- 0.150- 0.124-				
	0.0 2.	5 5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

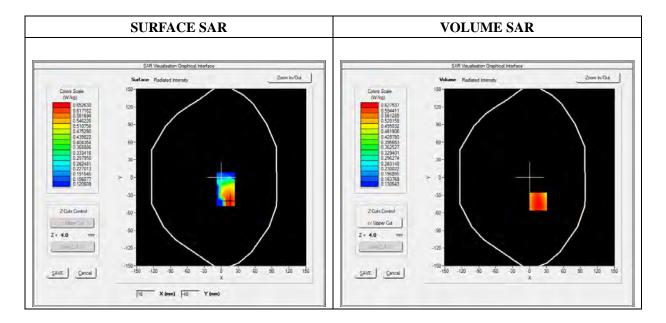
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat plane
Device Position	Back
Band	GPRS850_2TX
Channels	High
Signal	Duty Cycle 1:2

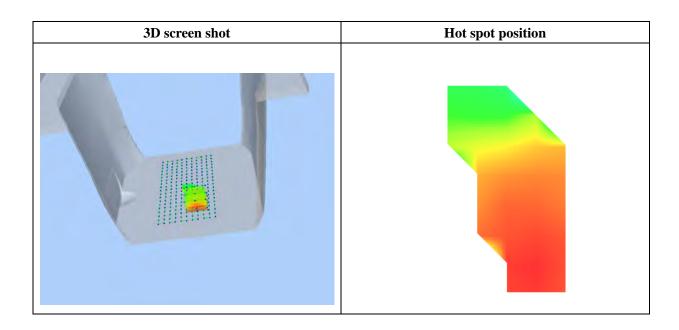
Frequency (MHz)	848.799988
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.901472
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=15.00, Y=-41.00

SAR 10g (W/Kg)	0.451730
SAR 1g (W/Kg)	0.605054

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.6254	0.4923	0.3798	0.2853
	0.63-				
	0.55				
	0.55-				
	0.50-				
	₹ 0.45				
	0.50- W) 0.45- 0.40- 9 0.35-				
	0.30		++		
	0.25				
	0.21-				
	0.0 2.5	5.0 7.5 10.0	12.5 15.0 17.5	20.0 22.5 25.0	
			Z (mm)		



Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

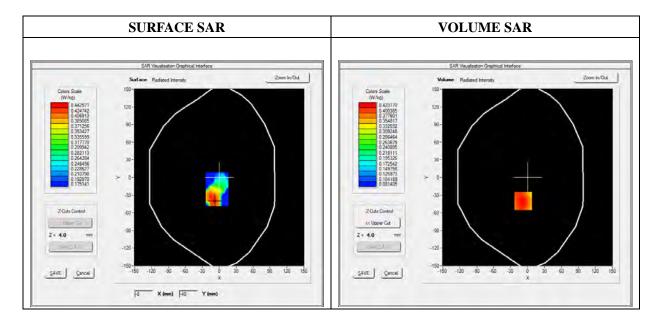
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat plane
Device Position	Front
Band	GPRS850_2TX
Channels	High
Signal	Duty Cycle 1:2

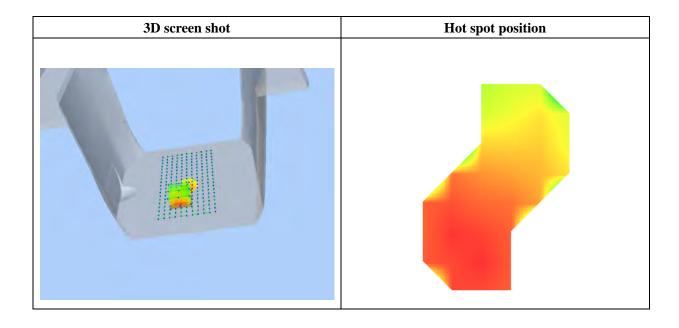
Frequency (MHz)	848.799988
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.901472
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-8.00, Y=-40.00

SAR 10g (W/Kg)	0.306473
SAR 1g (W/Kg)	0.408335

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.4232	0.3269	0.2521	0.1937
	0.42- 0.40- 0.35- 0.30- WW 0.30- V 0.25- 0.20- 0.15- 0.0 2.5	5 5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

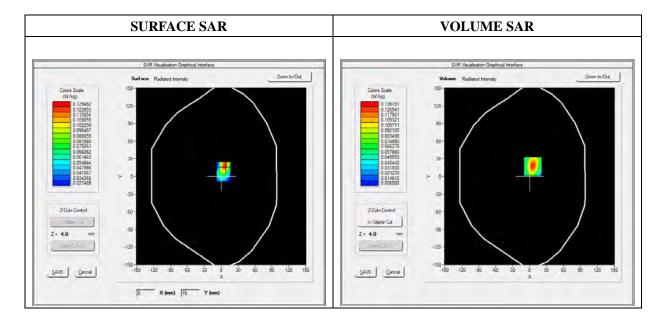
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat plane
Device Position	Bottom
Band	GPRS850_2TX
Channels	High
Signal	Duty Cycle 1:2

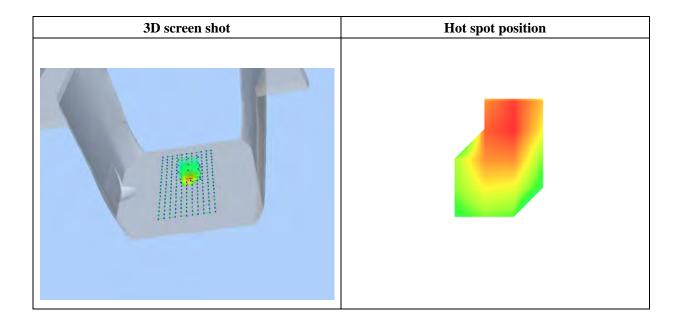
Frequency (MHz)	848.799988
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.901472
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=6.00, Y=17.00

SAR 10g (W/Kg)	0.065116
SAR 1g (W/Kg)	0.122850

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1352	0.0727	0.0411	0.0264
	0.14-				
	0.10				
	0.04-				
	0.02 - 0.0 2.5	5 5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

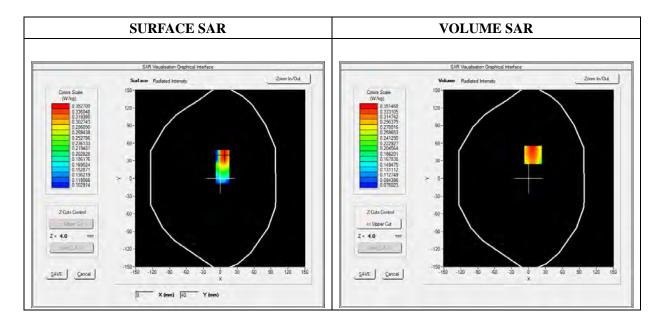
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Flat plane	
Device Position	Right side	
Band	GPRS850_2TX	
Channels	High	
Signal	Duty Cycle 1:2	

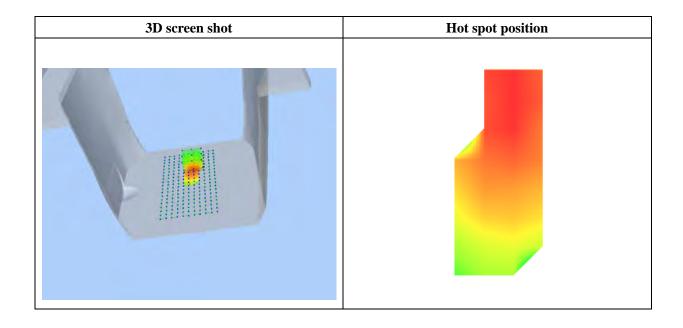
Frequency (MHz)	848.799988	
Relative Permittivity (real part)	54.851214	
Conductivity (S/m)	0.951454	
Power Variation (%)	0.901472	
Ambient Temperature	21.1	
Liquid Temperature	21.3	



Maximum location: X=8.00, Y=40.00

SAR 10g (W/Kg)	0.233515	
SAR 1g (W/Kg)	0.332334	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.3290	0.2606	0.1985	0.1438
	0.33-				
	0.30				
	0.25- (M/K) 0.20-				
	을 0.20-		\longrightarrow		
	0.15-				
	0.10 - 0.0 2.5	5.0 7.5 10.0	12.5 15.0 17.5	20.0 22.5 25.0	
			Z (mm)		



Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

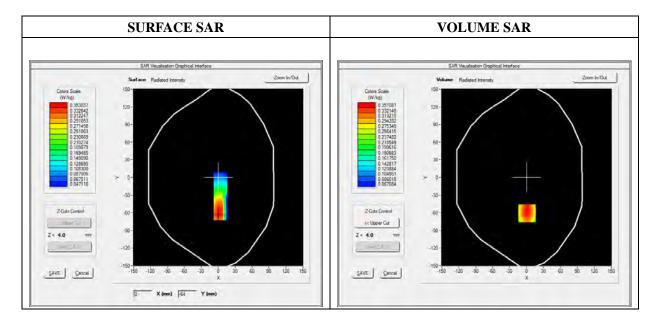
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Flat plane	
Device Position	Left side	
Band	GPRS850_2TX	
Channels	High	
Signal	Duty Cycle 1:2	

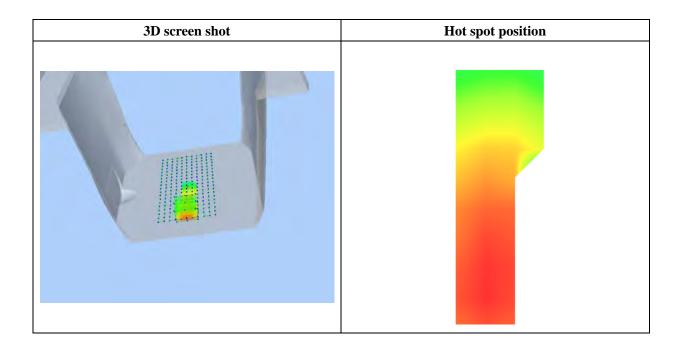
Frequency (MHz)	848.799988	
Relative Permittivity (real part)	54.851214	
Conductivity (S/m)	0.951454	
Power Variation (%)	0.901472	
Ambient Temperature	21.1	
Liquid Temperature	21.3	



Maximum location: X=1.00, Y=-61.00

SAR 10g (W/Kg)	0.230586	
SAR 1g (W/Kg)	0.334099	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.3492	0.2519	0.1824	0.1329
	0.35-				
	0.30-				
	0.25 - WK W.K W. 0.20 - WK	++			
	£ 0.20-	`	\downarrow		
	0.15-				
	0.09	\rightarrow			
	0.0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0				
	Z (mm)				



Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

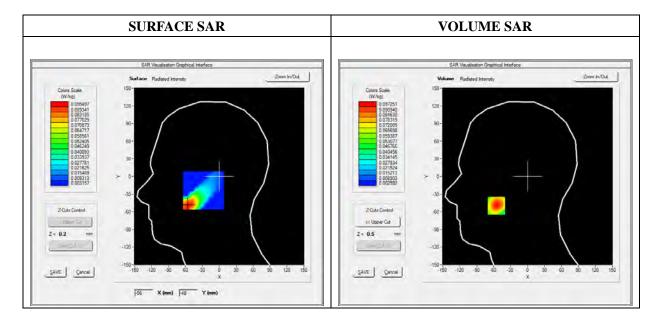
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.16; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Right head	
Device Position	Cheek	
Band	GSM1900	
Channels	High	
Signal	Duty Cycle 1:8.3	

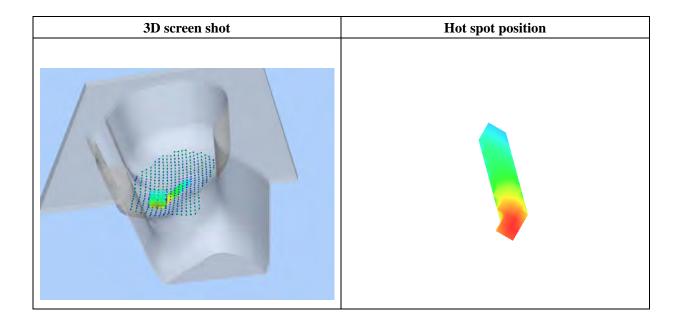
Frequency (MHz)	1909.800049	
Relative Permittivity (real part)	38.560124	
Conductivity (S/m)	1.380369	
Power Variation (%)	1.022540	
Ambient Temperature	21.1	
Liquid Temperature	21.3	



Maximum location: X=-55.00, Y=-50.00

SAR 10g (W/Kg)	0.048056	
SAR 1g (W/Kg)	0.091322	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0973	0.0499	0.0251	0.0130
	0.10-				
		\			
	0.08-				
	₹ 0.06-				
	<u> </u>				
	- 0.00 BB WW] WB 0.04	\rightarrow	+		
	0.02-				
	0.01-	F0 7F 100	12.5 15.0 17.5	20.0 22.5 25.0	
	0.0 2.5	5 5.0 7.5 10.0	Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

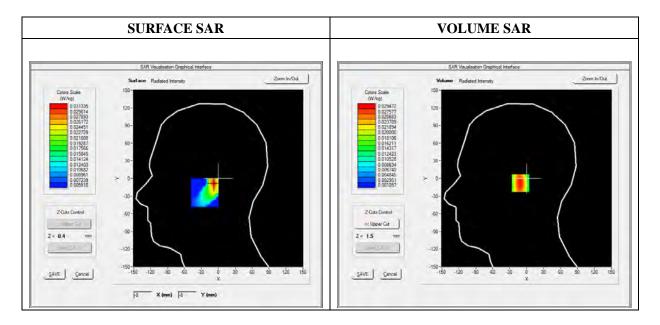
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.16; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Tilt
Band	GSM1900
Channels	High
Signal	Duty Cycle 1:8.3

Frequency (MHz)	1909.800049
Relative Permittivity (real part)	38.560124
Conductivity (S/m)	1.380369
Power Variation (%)	1.022540
Ambient Temperature	21.1
Liquid Temperature	21.3



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

SAR 10g (W/Kg)	0.014419
SAR 1g (W/Kg)	0.027563

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0295	0.0140	0.0067	0.0036
	0.029-				
	0.025-	\longrightarrow			
	ॼ 0.020-	\longrightarrow			
	0.020- W.K 0.015-				
	0.010-				
	0.005 -				
	0.0 2.	5 5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	

3D screen shot	Hot spot position

Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

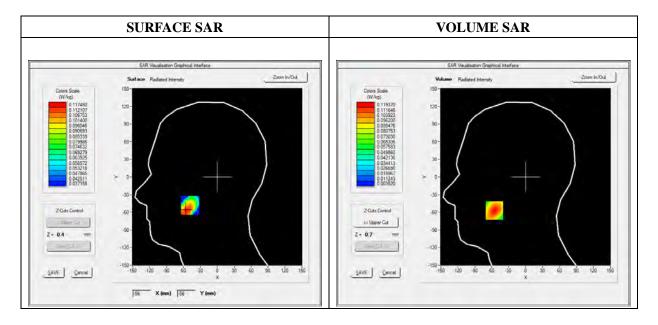
Measurement duration: 11 minutes 48 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.16; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Left head	
Device Position	Cheek	
Band	GSM1900	
Channels	High	
Signal	Duty Cycle 1:8.3	

Frequency (MHz)	1909.800049
Relative Permittivity (real part)	38.560124
Conductivity (S/m)	1.380369
Power Variation (%)	1.022540
Ambient Temperature	21.1
Liquid Temperature	21.3



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

SAR 10g (W/Kg)	0.059436
SAR 1g (W/Kg)	0.112219

0.00	4.00	9.00	14.00	19.00
0.0000	0.1194	0.0589	0.0289	0.0152
0.12-	<u> </u>			
0.10-				
₹ 0.08-	+			
€ 0.06-	++	+		
δ _{0.04} -				
0.01- 0.0 2.5	5 5.0 7.5 10.0	12.5 15.0 17.5	20.0 22.5 25.0	
Z (mm)				
	0.0000 0.12- 0.10- 0.08- 0.06- 0.04- 0.02- 0.01-	0.0000 0.1194 0.12- 0.10- 0.08- 0.06- 0.04- 0.02- 0.01- 0.0 2.5 5.0 7.5 10.0	0.0000 0.1194 0.0589 0.12- 0.10- 0.08- 0.06- 0.04- 0.02- 0.01- 0.0 2.5 5.0 7.5 10.0 12.5 15.0 17.5	0.0000 0.1194 0.0589 0.0289 0.12- 0.10- 0.08- 0.06- 0.04- 0.02- 0.01- 0.0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0

3D screen shot	Hot spot position

Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

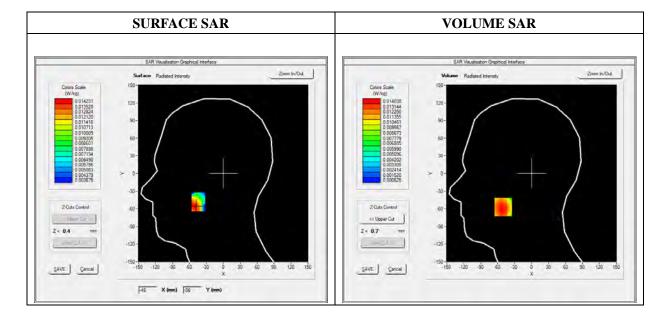
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.16; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Left head	
Device Position	Tilt	
Band	GSM1900	
Channels	High	
Signal	Duty Cycle 1:8.3	

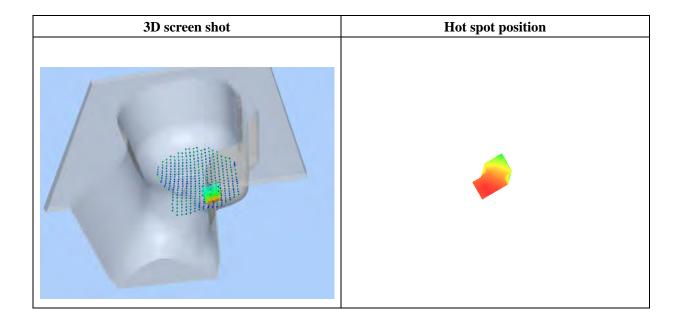
Frequency (MHz)	1909.800049
Relative Permittivity (real part)	38.560124
Conductivity (S/m)	1.380369
Power Variation (%)	1.022540
Ambient Temperature	21.1
Liquid Temperature	21.3



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

SAR 10g (W/Kg)	0.007677
SAR 1g (W/Kg)	0.013567

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0140	0.0071	0.0037	0.0022
	0.014-				
	0.012-				
	0.010- ≥ 0.008-	\			
	S 0.008-				
	S 0.006−				
	0.004				
	0.001-				
	0.0 2.	5 5.0 7.5 10.0		20.0 22.5 25.0	
			Z (mm)		



Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

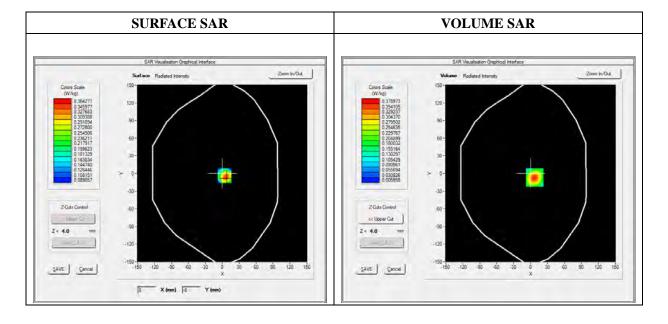
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Back(Body-worn)
Band	GSM1900
Channels	High
Signal	Duty Cycle 1:8.3

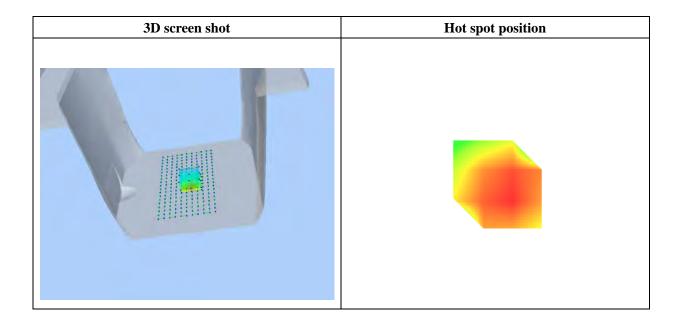
Frequency (MHz)	1909.800049
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	0.541872
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=7.00, Y=-7.00

SAR 10g (W/Kg)	0.192740
SAR 1g (W/Kg)	0.415565

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.3790	0.1593	0.0644	0.0288
	0.38- 0.35- 0.30- WW 0.20- WW 0.15- 0.10- 0.05- 0.01- 0.00 2.5	5 5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

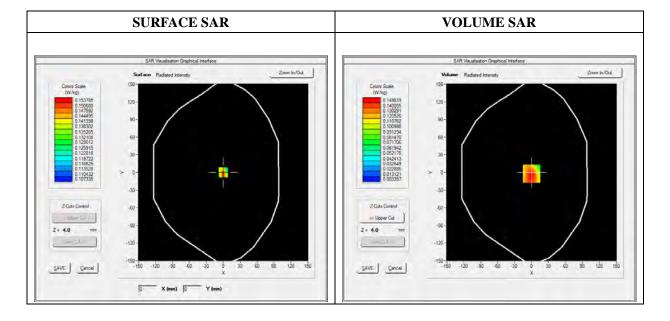
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Front(Body-worn)
Band	GSM1900
Channels	High
Signal	Duty Cycle 1:8.3

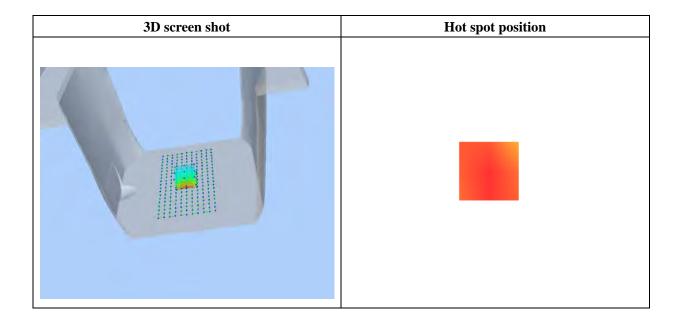
Frequency (MHz)	1909.800049
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	0.541872
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=0.00, Y=-2.00

SAR 10g (W/Kg)	0.089930
SAR 1g (W/Kg)	0.170839

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1485	0.0696	0.0317	0.0151
	0.15-				
	0.12-	5 5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

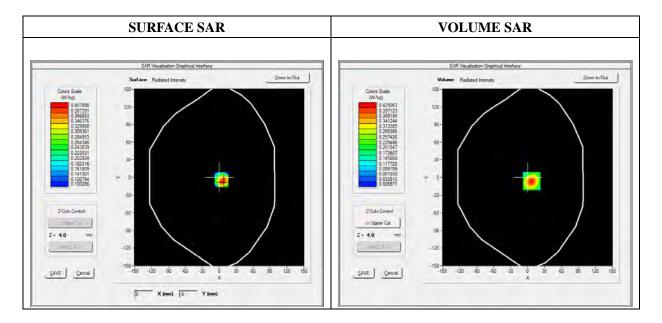
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat plane
Device Position	Back
Band	GPRS1900_2TX
Channels	High
Signal	Duty Cycle 1:2

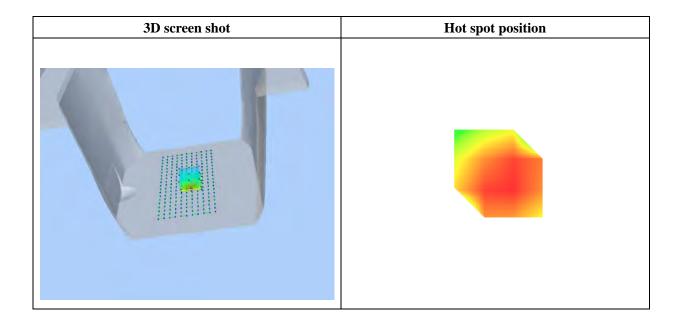
Frequency (MHz)	1909.800049
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	0.541872
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=7.00, Y=-6.00

SAR 10g (W/Kg)	0.183475
SAR 1g (W/Kg)	0.389784

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.4251	0.1873	0.0791	0.0352
	0.43-	\			
	0.35				
	0.30 - 0.25 - 0.20 - 0.20 - 0.15 - 0.				
	₩ 0.20-				
	0.10-				
	0.05 - 0.02 - 0.0 2.5	5 5.0 7.5 10.0	12.5 15.0 17.5	20.0 22.5 25.0	
	U.U 2.3		Z (mm)	20.0 22.0 20.0	



Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

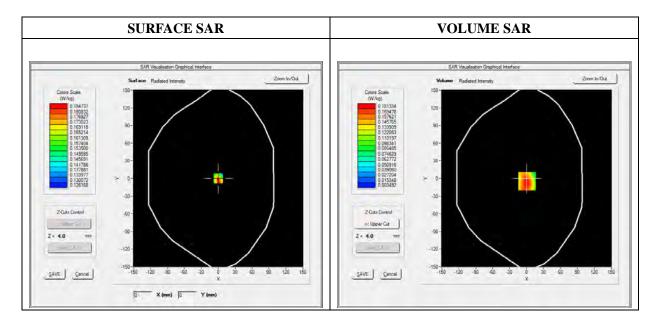
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat plane
Device Position	Front
Band	GPRS1900_2TX
Channels	High
Signal	Duty Cycle 1:2

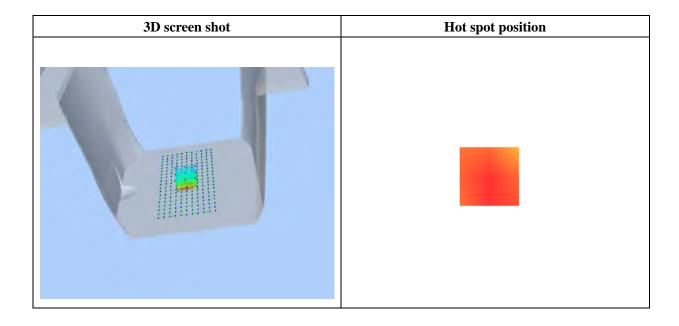
Frequency (MHz)	1909.800049
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	0.541872
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=1.00, Y=-5.00

SAR 10g (W/Kg)	0.087922
SAR 1g (W/Kg)	0.171985

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1813	0.0810	0.0350	0.0162
	0.181-				
	0.150-	$\overline{}$			
	 0.125				
	₹ 0.100-	+			
	0.125- 0.100- 0.075-				
	0.050-		+		
	0.025 -		105 150 175	200.005.050	
	0.0 2.	5 5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

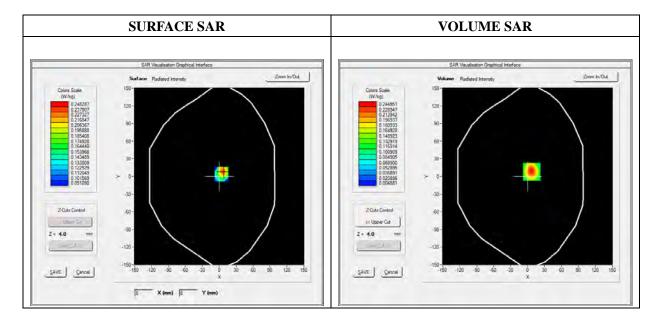
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat plane
Device Position	Bottom
Band	GPRS1900_2TX
Channels	High
Signal	Duty Cycle 1:2

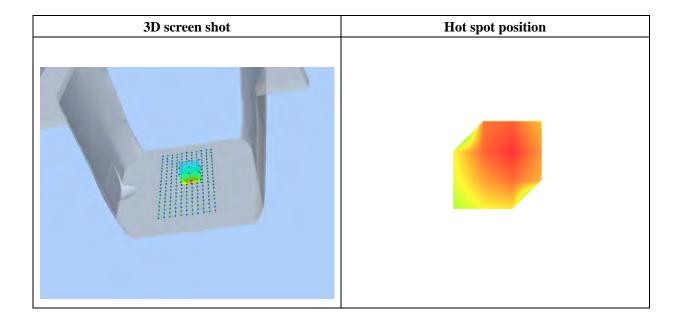
Frequency (MHz)	1909.800049
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	0.541872
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=7.00, Y=8.00

SAR 10g (W/Kg)	0.109489
SAR 1g (W/Kg)	0.226262

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.2450	0.1102	0.0480	0.0223
	0.24 - 0.20 - 0.15 - 0.15 - 0.05 - 0.01 - 0.0 2.5		12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

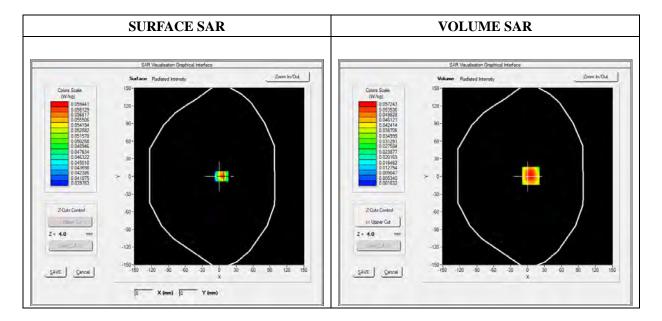
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat plane
Device Position	Right side
Band	GPRS1900_2TX
Channels	High
Signal	Duty Cycle 1:2

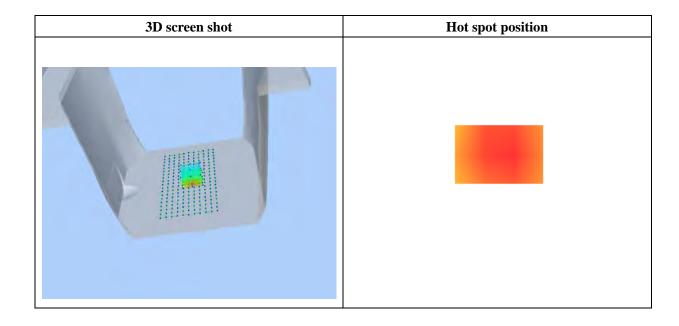
Frequency (MHz)	1909.800049
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	0.541872
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=6.00, Y=1.00

SAR 10g (W/Kg)	0.028058
SAR 1g (W/Kg)	0.054036

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0572	0.0267	0.0121	0.0058
	0.06 - 0.05 - 0.04 - 0.03 - 0.02 - 0.01 -				
	0.00 - 0.0 2.	5 5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

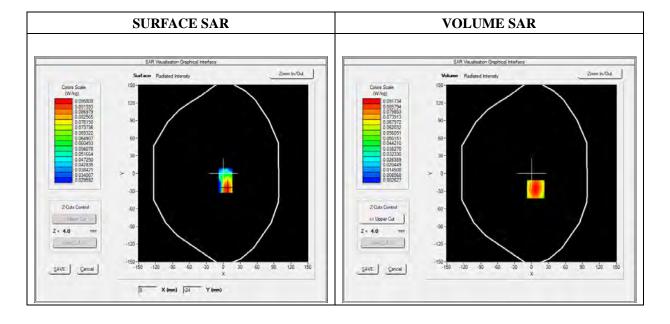
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat plane
Device Position	Left side
Band	GPRS1900_2TX
Channels	High
Signal	Duty Cycle 1:2

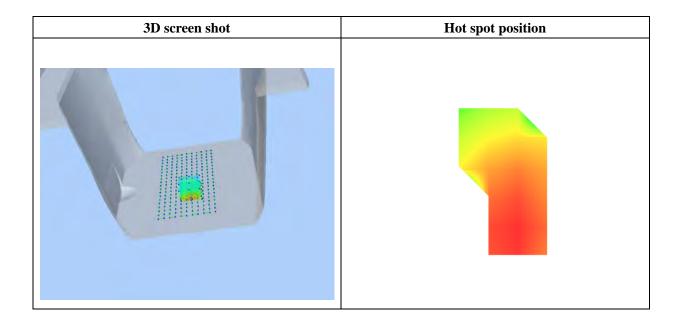
Frequency (MHz)	1909.800049
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	0.541872
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=7.00, Y=-27.00

SAR 10g (W/Kg)	0.045378
SAR 1g (W/Kg)	0.086946

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0917	0.0419	0.0188	0.0091
	0.09 - 0.08 - 0.06 - WWW 0.04 - 0.02 - 0.00 - 0.00 -		12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

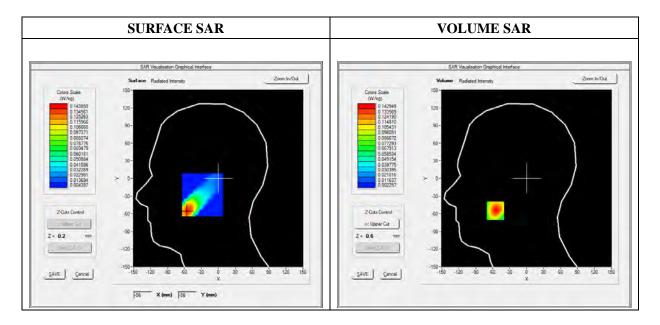
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.16; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Cheek
Band	WCDMA1900_RMC
Channels	Middle
Signal	Duty Cycle 1:1

Frequency (MHz)	1880.000000
Relative Permittivity (real part)	38.560124
Conductivity (S/m)	1.380369
Power Variation (%)	1.022540
Ambient Temperature	21.1
Liquid Temperature	21.3



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

SAR 10g (W/Kg)	0.069317
SAR 1g (W/Kg)	0.133801

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1429	0.0717	0.0352	0.0178
	0.14-				
		$\mathbf{X} + \mathbf{I}$			
	0.12-				
	_ 0.10 -	+			
	0.10- ≥ 0.08-	+	+		
	S 0.06-	\rightarrow	+		
	0.04-				
	0.02				
	0.0 2.5	5.0 7.5 10.0		20.0 22.5 25.0	
			Z (mm)		

3D screen shot	Hot spot position

Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

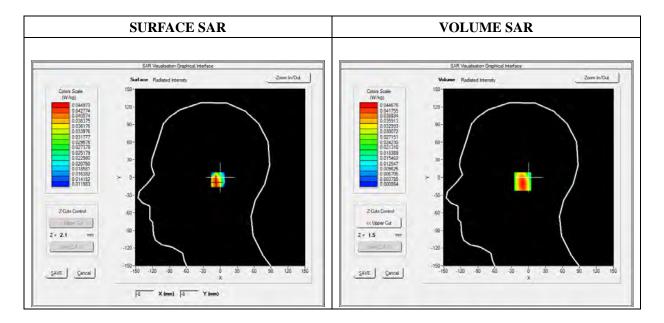
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.16; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Tilt
Band	WCDMA1900_ RMC
Channels	Middle
Signal	Duty Cycle 1:1

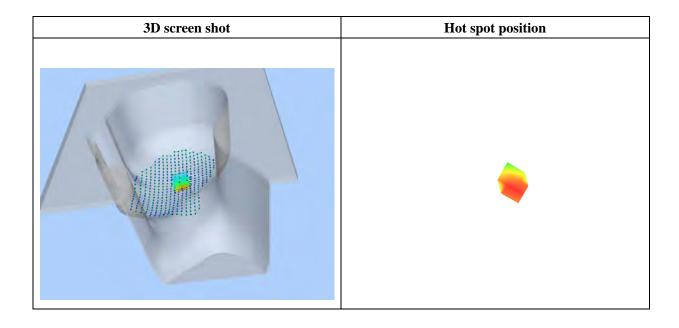
Frequency (MHz)	1880.000000
Relative Permittivity (real part)	38.560124
Conductivity (S/m)	1.380369
Power Variation (%)	1.022540
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-8.00, Y=-7.00

SAR 10g (W/Kg)	0.021442
SAR 1g (W/Kg)	0.041756

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0445	0.0215	0.0100	0.0047
	0.045 - 0.040 - 0.035 - 0.035 - 0.030 - 0.025 - 0.015 - 0.010 - 0.002		12.5 15.0 17.5 Z (mm)		



Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

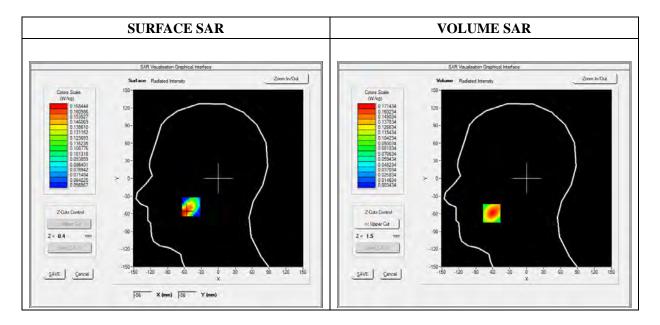
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.16; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Left head		
Device Position	Cheek		
Band	WCDMA1900_RMC		
Channels	Middle		
Signal	Duty Cycle 1:1		

Frequency (MHz)	1880.000000
Relative Permittivity (real part)	38.560124
Conductivity (S/m)	1.380369
Power Variation (%)	1.022540
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-62.00, Y=-59.00

SAR 10g (W/Kg)	0.082590
SAR 1g (W/Kg)	0.161051

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1714	0.0810	0.0373	0.0180
	0.17- 0.14- 0.12- 30.10- 0.08- 0.08- 0.06- 0.04- 0.01- 0.0 2.5		12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	

3D screen shot	Hot spot position

Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

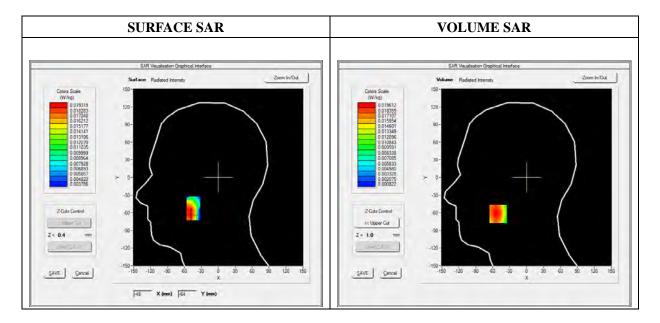
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.16; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Left head		
Device Position	Tilt		
Band	WCDMA1900_RMC		
Channels	Middle		
Signal	Duty Cycle 1:1		

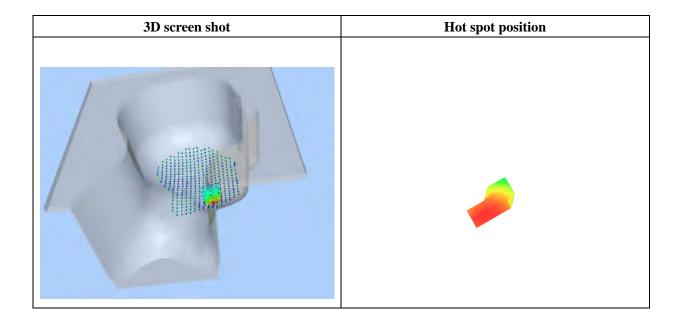
Frequency (MHz)	1880.000000
Relative Permittivity (real part)	38.560124
Conductivity (S/m)	1.380369
Power Variation (%)	1.022540
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-50.00, Y=-62.00

SAR 10g (W/Kg)	0.010200
SAR 1g (W/Kg)	0.018757

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0194	0.0097	0.0048	0.0024
	0.0194 - 0.0175 - 0.0150 - 第 0.0125 - 0.0100 - 4 0.0075 - 0.0050 -		12.5 15.0 17.5 Z (mm)		



Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

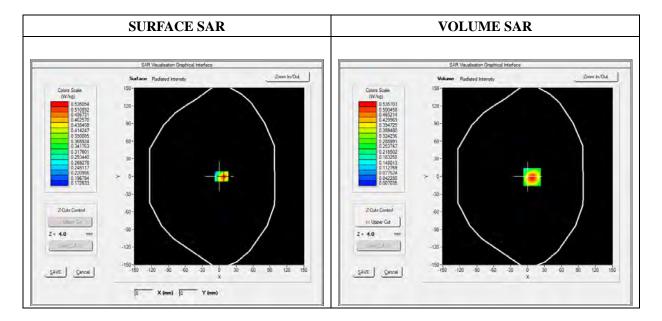
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Flat Plane	
Device Position	Back	
Band	WCDMA1900_RMC	
Channels	Middle	
Signal	Duty Cycle 1:1	

Frequency (MHz)	1880.000000	
Relative Permittivity (real part)	52.420415	
Conductivity (S/m)	1.501966	
Power Variation (%)	0.541872	
Ambient Temperature	21.1	
Liquid Temperature	21.3	



Maximum location: X=8.00, Y=-1.00

SAR 10g (W/Kg)	0.234600
SAR 1g (W/Kg)	0.495341

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.5357	0.2321	0.0971	0.0442
	0.5-				
	0.4-	\rightarrow			
	<u> </u>	\perp			
	₹ 0.3-				
	B 0.3- HX 0.2-	+			
	0.1-				
	0.0	50 75 100	105 150 175	20.0 22.5 25.0	
	0.0 2.5		12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	
			- ····/		

3D screen shot	Hot spot position		

Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

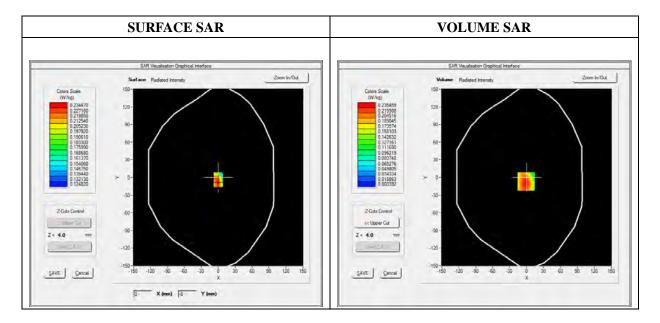
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Flat Plane	
Device Position	Front	
Band	WCDMA1900_RMC	
Channels	Middle	
Signal	Duty Cycle 1:1	

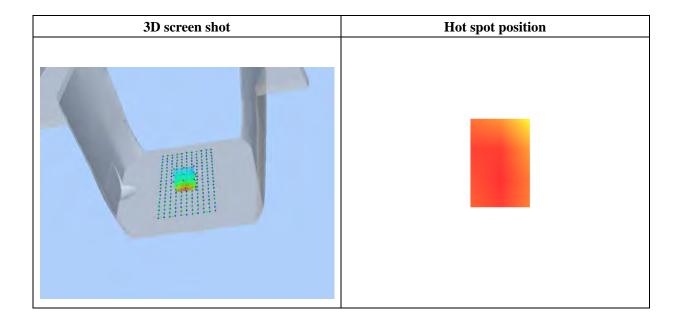
Frequency (MHz)	1880.000000
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	0.541872
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-1.00, Y=-7.00

SAR 10g (W/Kg)	0.114529
SAR 1g (W/Kg)	0.223070

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.2355	0.1065	0.0464	0.0212
	0.24- 0.20- 0.15- WW 0.10- 0.05- 0.01- 0.0 2.5		12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

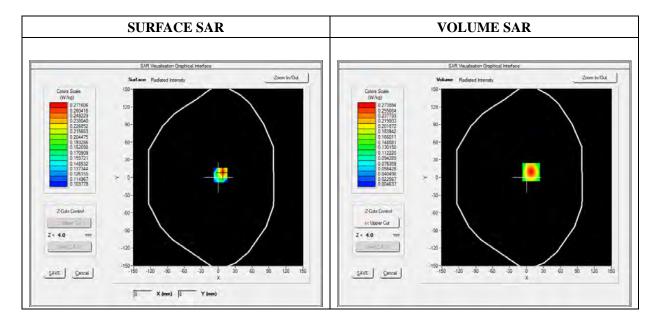
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Flat Plane	
Device Position	Bottom	
Band	WCDMA1900_RMC	
Channels	Middle	
Signal	Duty Cycle 1:1	

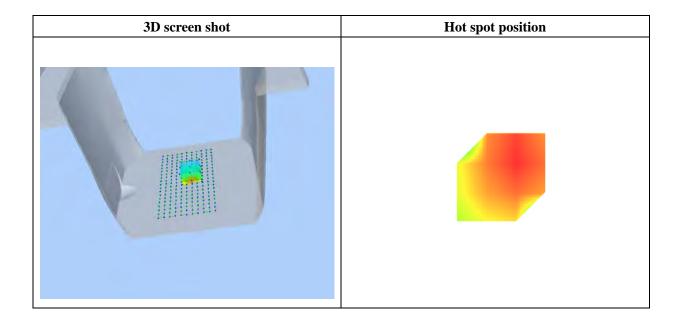
Frequency (MHz)	1880.000000
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	0.541872
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=8.00, Y=9.00

SAR 10g (W/Kg)	0.124158
SAR 1g (W/Kg)	0.253839

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.2736	0.1239	0.0542	0.0250
	0.27- 0.25- 0.20- 0.15- 0.15- 0.05- 0.01- 0.0 2.5		12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

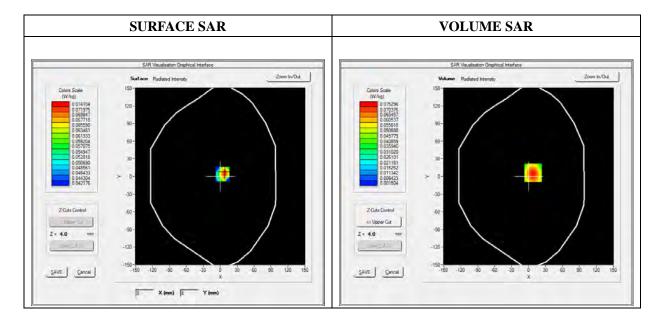
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Flat Plane	
Device Position	Right side	
Band	WCDMA1900_RMC	
Channels	Middle	
Signal	Duty Cycle 1:1	

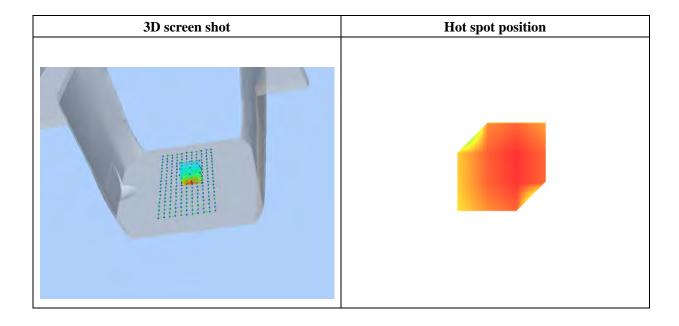
Frequency (MHz)	1880.000000
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	0.541872
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=8.00, Y=6.00

SAR 10g (W/Kg)	0.035874
SAR 1g (W/Kg)	0.070730

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0753	0.0342	0.0149	0.0068
	0.08-				
	0.06-				
		+ $+$ $+$			
	≅ 0.05-	+			
	% 0.03-	++			
	0.02				
	0.01 -				
	0.0 2.5		12.5 15.0 17.5	20.0 22.5 25.0	
			Z (mm)		



Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

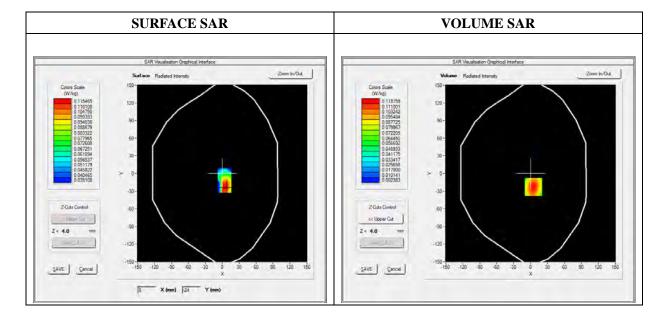
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Left side
Band	WCDMA1900_RMC
Channels	Middle
Signal	Duty Cycle 1:1

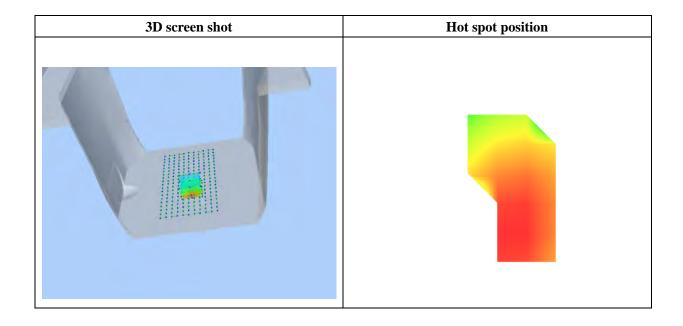
Frequency (MHz)	1880.000000
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	0.541872
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=5.00, Y=-23.00

SAR 10g (W/Kg)	0.057296
SAR 1g (W/Kg)	0.111638

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1188	0.0547	0.0242	0.0111
	0.12- 0.10- 0.08- 0.06- 0.04- 0.02- 0.00- 0.0 2.5		12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

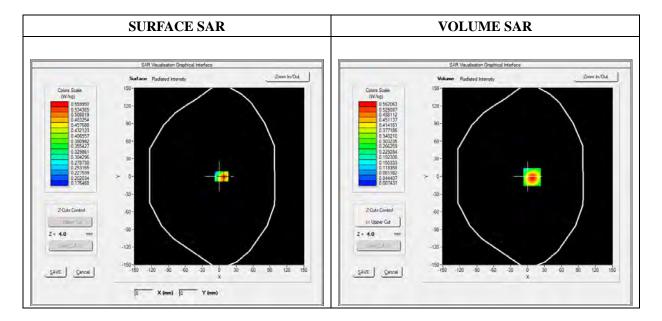
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Back(Body-worn)
Band	WCDMA1900_RMC
Channels	Middle
Signal	Duty Cycle 1:1

Frequency (MHz)	1880.000000
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	0.541872
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=8.00, Y=-1.00

SAR 10g (W/Kg)	0.248039
SAR 1g (W/Kg)	0.519859

0.00	4.00	9.00	14.00	19.00
0.0000	0.5621	0.2483	0.1059	0.0483
0.6-				
0.5	\rightarrow			
<u></u> 0.4-				
₹ 0.3-	+			
AB				
o 0.2-				
0.1-		\rightarrow		
			-	
0.0 2.5	5.0 7.5 10.0	12.5 15.0 17.5	20.0 22.5 25.0	
		Z (mm)		
	0.0000 0.6- 0.5- 0.4- 0.4- 0.3- 0.2- 0.1- 0.0-	0.0000 0.5621 0.6- 0.5- 0.4- 0.4- 0.0- 0.0- 0.0- 0.0- 0.0- 0.0	0.0000 0.5621 0.2483	0.0000 0.5621 0.2483 0.1059 0.6- 0.5- 0.4- 0.0- 0.0- 0.0- 0.0- 0.0- 0.0- 0.0

3D screen shot	Hot spot position

Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

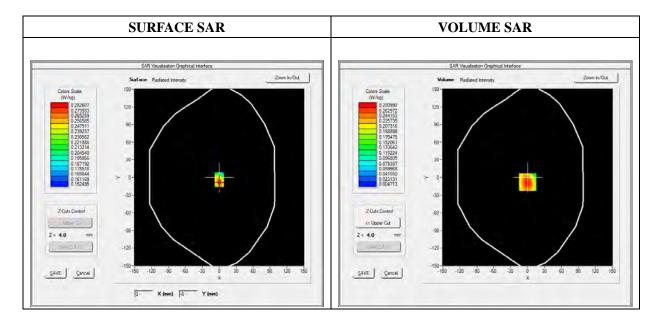
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Front(Body-worn)
Band	WCDMA1900_RMC
Channels	Middle
Signal	Duty Cycle 1:1

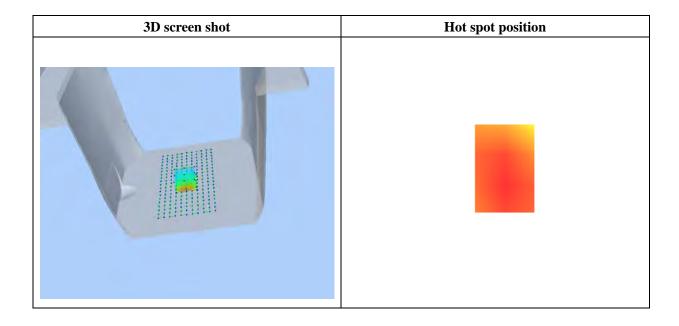
Frequency (MHz)	1880.000000
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	0.541872
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=0.00, Y=-8.00

SAR 10g (W/Kg)	0.134540
SAR 1g (W/Kg)	0.263998

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.2810	0.1276	0.0559	0.0257
	0.28- 0.25- 0.20- 3/W) 0.15- 4/S 0.10- 0.05- 0.01- 0.0 2.5	5 5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

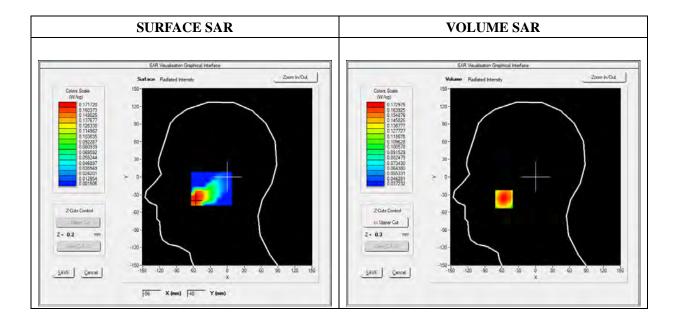
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.25; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Right head	
Device Position	Cheek	
Band	WCDMA850_RMC	
Channels	Middle	
Signal	Duty Cycle 1:1	

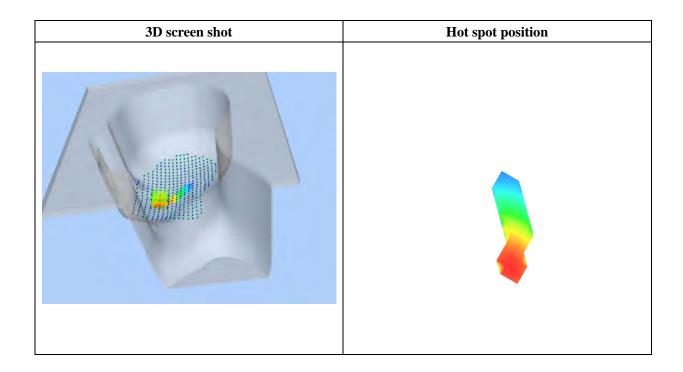
Frequency (MHz)	836.400000
Relative Permittivity (real part)	41.110245
Conductivity (S/m)	0.871245
Power Variation (%)	1.814580
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-56.00, Y=-38.00

SAR 10g (W/Kg)	0.125071
SAR 1g (W/Kg)	0.166177

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1730	0.1413	0.1144	0.0916
	0.17- 0.16- 0.14- 0.12- 0.10- 0.08- 0.07- 0.0 2.5	5 5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

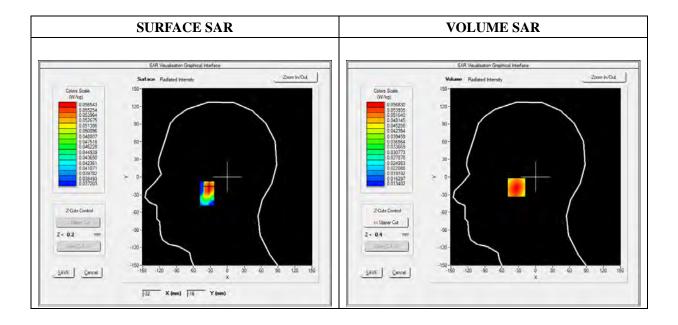
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.25; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Tilt
Band	WCDMA850_ RMC
Channels	Middle
Signal	Duty Cycle 1:1

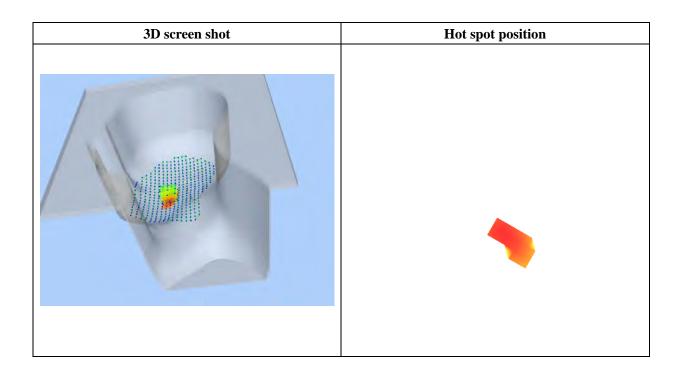
Frequency (MHz)	836.400000
Relative Permittivity (real part)	41.110245
Conductivity (S/m)	0.871245
Power Variation (%)	1.814580
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-32.00, Y=-18.00

SAR 10g (W/Kg)	0.041191
SAR 1g (W/Kg)	0.054592

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0568	0.0454	0.0363	0.0289
	0.057-				
	0.050- 				
	0.030-				
	0.023 - 0.0 2.	5 5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

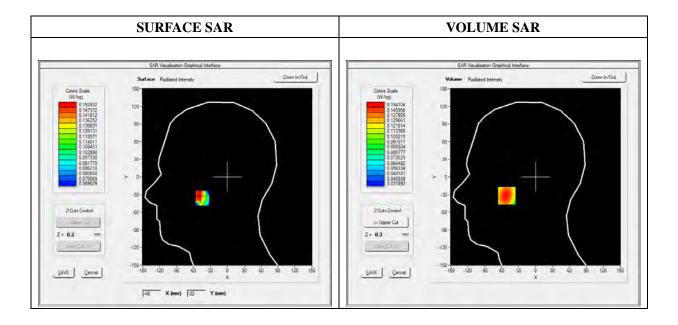
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.25; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Left head	
Device Position	Cheek	
Band	WCDMA850_RMC	
Channels	Middle	
Signal	Duty Cycle 1:1	

Frequency (MHz)	836.400000
Relative Permittivity (real part)	41.110245
Conductivity (S/m)	0.871245
Power Variation (%)	1.814580
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-51.00, Y=-32.00

SAR 10g (W/Kg)	0.110785
SAR 1g (W/Kg)	0.147901

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1541	0.1236	0.0984	0.0776
	0.15-				
	0.14-				
	⊋ 0.12-	+			
	WK (WKS		$\mathbf{X} + \mathbf{I}$		
	SAR 0.10-				
	0.08-		\rightarrow		
	0.06-	5.0 7.5 10.0	12.5 15.0 17.5	20.0 22.5 25.0	
	0.0 2.5	5.0 7.5 10.0	I2.5 I5.0 I7.5 Z (mm)	20.0 22.3 23.0	
			∠ (mm)		

3D screen shot	Hot spot position

Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

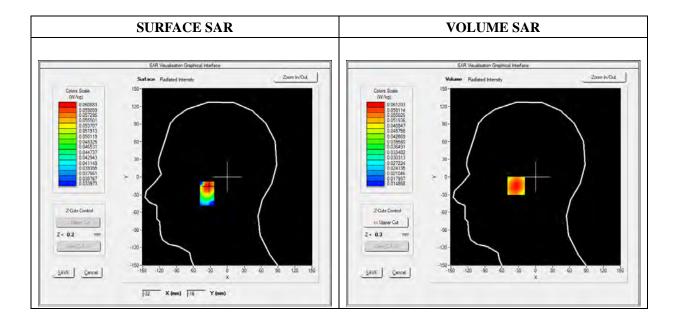
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.25; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Left head
Device Position	Tilt
Band	WCDMA850_RMC
Channels	Middle
Signal	Duty Cycle 1:1

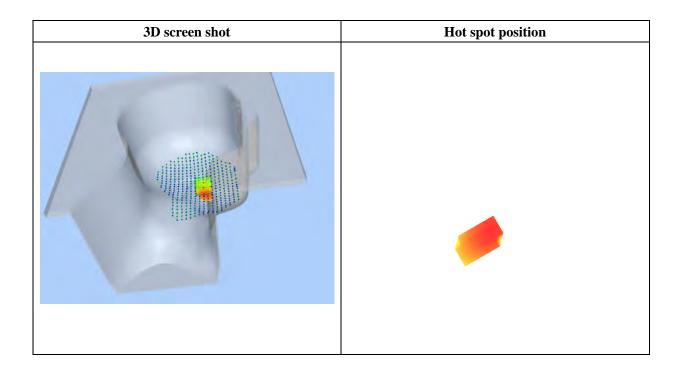
Frequency (MHz)	836.400000
Relative Permittivity (real part)	41.110245
Conductivity (S/m)	0.871245
Power Variation (%)	1.814580
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-33.00, Y=-15.00

SAR 10g (W/Kg)	0.044226
SAR 1g (W/Kg)	0.058681

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0612	0.0488	0.0391	0.0314
	0.061-				
	0.055-	\longrightarrow			
	0.050-		+		
	§ 0.045-		+		
	0.050- 0.045- 46 0.040-		\longrightarrow		
	0.035-		+		
	0.030-		- - - 		
	0.025				
	0.0 2.	5 5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

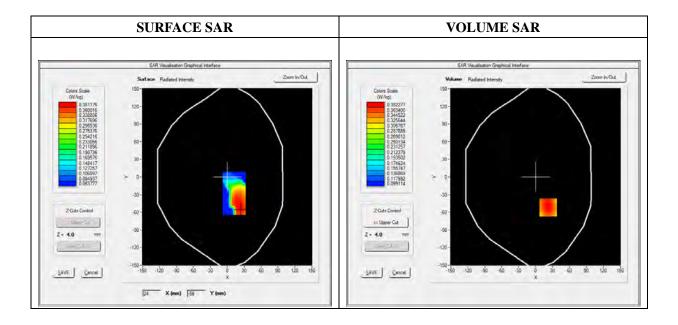
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Back
Band	WCDMA850_RMC
Channels	Middle
Signal	Duty Cycle 1:1

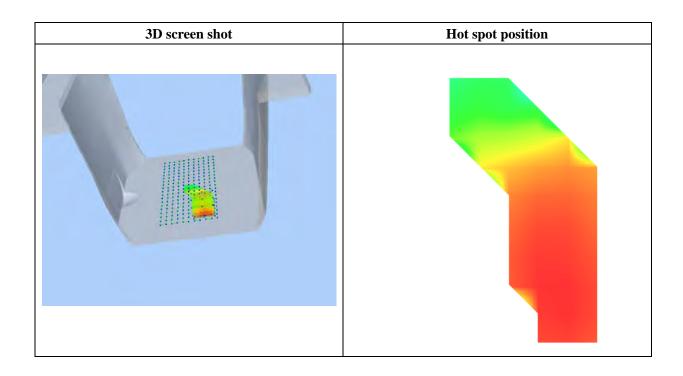
Frequency (MHz)	836.400000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.901472
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=22.00, Y=-52.00

SAR 10g (W/Kg)	0.275968
SAR 1g (W/Kg)	0.368863

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.3821	0.2990	0.2336	0.1821
	0.38 - 0.35 - 0.30 - WK 0.25 - 0.20 -				
0.14- 0.0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0 Z (mm)					



Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

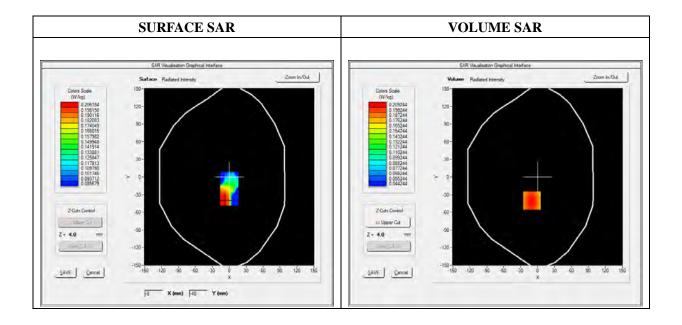
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Front
Band	WCDMA850_RMC
Channels	Middle
Signal	Duty Cycle 1:1

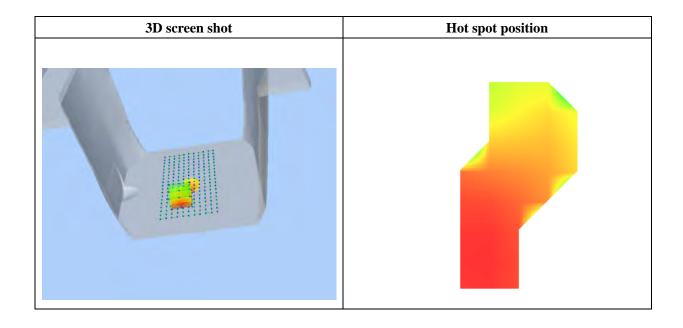
Frequency (MHz)	836.400000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.901472
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-10.00, Y=-40.00

SAR 10g (W/Kg)	0.150076
SAR 1g (W/Kg)	0.201427

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.2092	0.1608	0.1242	0.0965
	0.21-				
	0.18-	+			
	⊋ 0.16-	++			
	≥ 0.14-	- 	\downarrow		
	0.16- WW 0.14- 0.12-		\rightarrow		
	0.10				
	0.10				
	0.07-	5.0 7.5 10.0	12.5 15.0 17.5	20.0 22.5 25.0	
	0.0 2.5	5.0 7.5 10.0	Z (mm)	20.0 22.3 25.0	



Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

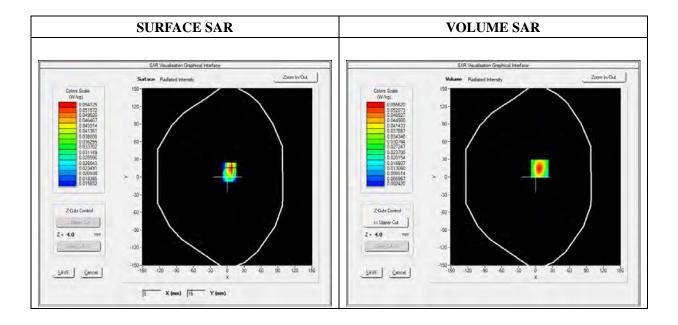
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Bottom
Band	WCDMA850_RMC
Channels	Middle
Signal	Duty Cycle 1:1

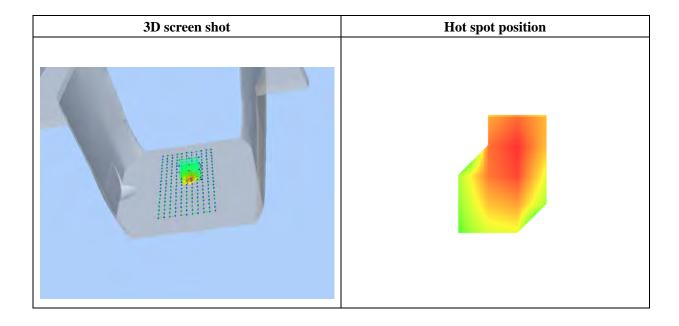
Frequency (MHz)	836.400000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.901472
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=7.00, Y=14.00

SAR 10g (W/Kg)	0.027369
SAR 1g (W/Kg)	0.050656

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0556	0.0307	0.0175	0.0109
	0.06- 0.05- 0.04- 0.03- 0.02- 0.01- 0.0 2.5		12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

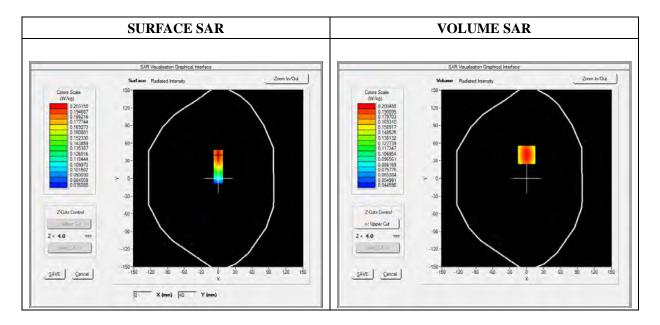
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Right side
Band	WCDMA850_RMC
Channels	Middle
Signal	Duty Cycle 1:1

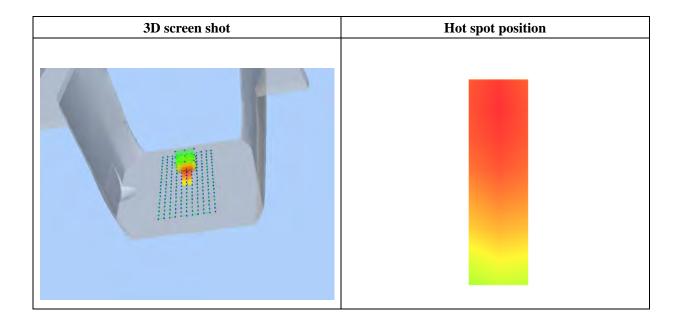
Frequency (MHz)	836.400000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.901472
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=0.00, Y=40.00

SAR 10g (W/Kg)	0.132877
SAR 1g (W/Kg)	0.190902

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.2005	0.1439	0.1046	0.0772
	0.20- 0.18- 0.16- 0.16- 0.14- W) 0.12- 0.10- 0.08- 0.06- 0.00 2.5	5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

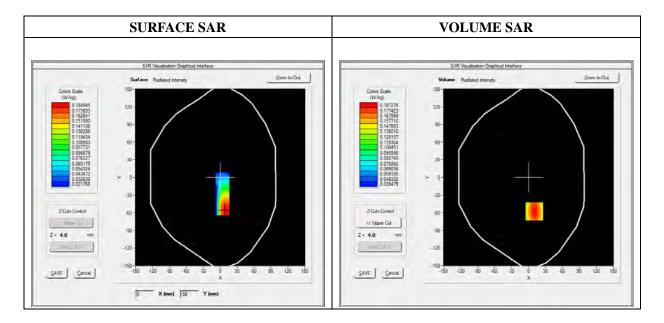
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Left side
Band	WCDMA850_RMC
Channels	Middle
Signal	Duty Cycle 1:1

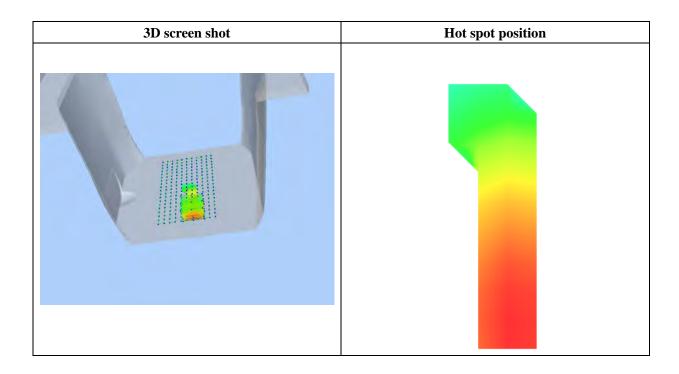
Frequency (MHz)	836.400000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.901472
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=10.00, Y=-58.00

SAR 10g (W/Kg)	0.123526	
SAR 1g (W/Kg)	0.178243	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1873	0.1344	0.0975	0.0718
	0.19-				
	0.16-	+			
	<u> </u>	+	 		
	© 0.14- W 0.12- W 0.10-	\rightarrow	+		
	₩ 0 10-				
	0.08-				
	0.08				
	0.05				
	0.0 2.5	5.0 7.5 10.0	12.5 15.0 17.5	20.0 22.5 25.0	
			Z (mm)		



Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

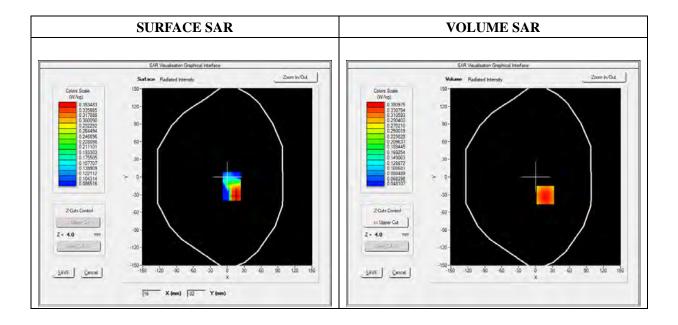
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Back(Body-worn)
Band	WCDMA850_RMC
Channels	Middle
Signal	Duty Cycle 1:1

Frequency (MHz)	836.400000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.901472
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=17.00, Y=-31.00

SAR 10g (W/Kg)	0.245667
SAR 1g (W/Kg)	0.337658

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.3510	0.2642	0.1973	0.1458
·	0.35-				
	0.30 -	+			
	=				
	₹ 0.25				
	W 0.25- W 0.20-				
	ο ο.Ευ				
	0.15-		++		
	0.40				
	0.10- 0.0 2.5	5.0 7.5 10.0	12.5 15.0 17.5	20.0 22.5 25.0	
	5.5 2.5	2.2 7.0 10.0	Z (mm)	20.0	

3D screen shot	Hot spot position

Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

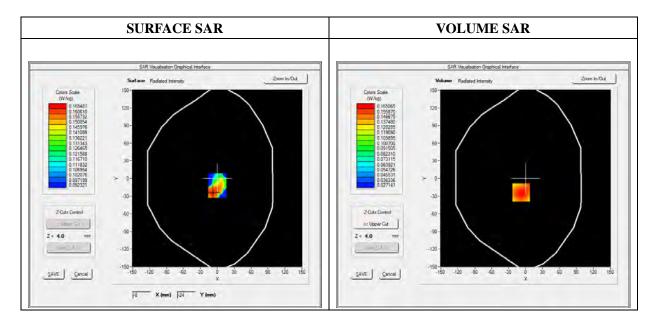
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Front(Body-worn)
Band	WCDMA850_RMC
Channels	Middle
Signal	Duty Cycle 1:1

Frequency (MHz)	836.400000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.901472
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-8.00, Y=-24.00

SAR 10g (W/Kg)	0.112635	
SAR 1g (W/Kg)	0.157966	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1651	0.1196	0.0870	0.0637
	0.17-				
	0.14-	+			
	₩ 0 12-				
	8				
	B 0.12- (M) 0.10-				
	-80.0		+		
	0.00				
	0.06-				
	0.05-	5.0 7.5 10.0	12.5 15.0 17.5	20.0 22.5 25.0	
			Z (mm)		
			Z (mm)		

3D screen shot	Hot spot position

Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

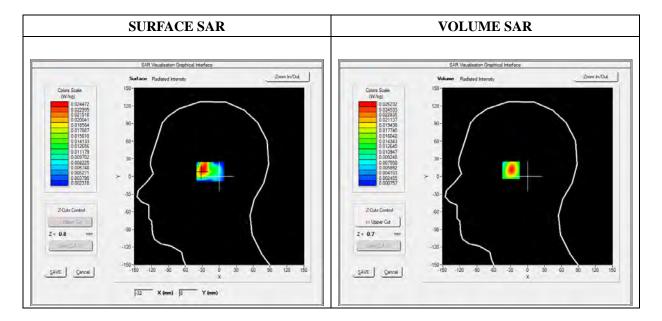
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.51; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Right head		
Device Position	Low		
Band	WiFi_802.11b		
Channels	Low		
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)		

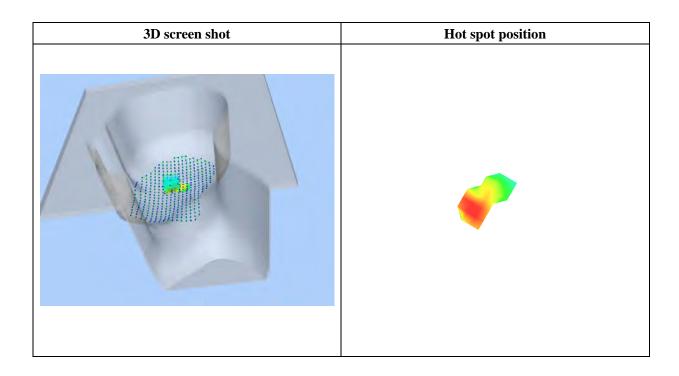
Frequency (MHz)	2412.000000		
Relative Permittivity (real part)	38.153660		
Conductivity (S/m)	1.740236		
Power Variation (%)	1.144120		
Ambient Temperature	21.1		
Liquid Temperature	21.2		



Maximum location: X=-29.00, Y=12.00

SAR 10g (W/Kg)	0.010942
SAR 1g (W/Kg)	0.024894

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000 0.02	0.0262	62 0.0090	0.0031	0.0016
	0.026-				
	0.020-	\longrightarrow			
	0.015- W (Wkg				
	§ 0.015-				
	S 0.010-	$\overline{}$			
	0.005-				
	0.001-¦ 0.0 2.	5 5.0 7.5 10.0	12.5 15.0 17.5	20.0 22.5 25.0	
			Z (mm)		



Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

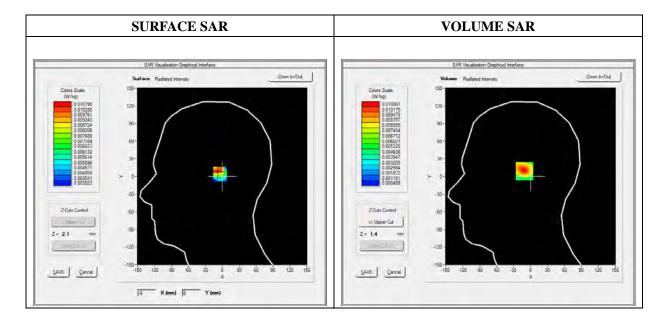
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.51; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Right head		
Device Position	Tilt		
Band	WiFi_802.11b		
Channels	Low		
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)		

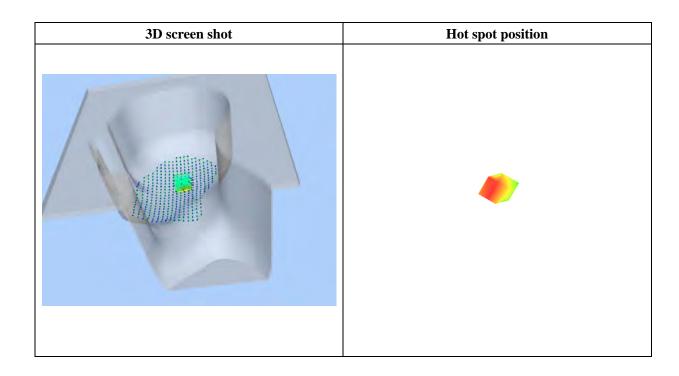
Frequency (MHz)	2412.000000
Relative Permittivity (real part)	38.153660
Conductivity (S/m)	1.740236
Power Variation (%)	1.144120
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=-9.00, Y=9.00

SAR 10g (W/Kg)	0.004908	
SAR 1g (W/Kg)	0.010682	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0109	0.0032	0.0011	0.0009
	0.011- 0.010- 0.008- 0.006- WW 0.004- 0.002- 0.001- 0.0 2.				
			Z (mm)		



Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

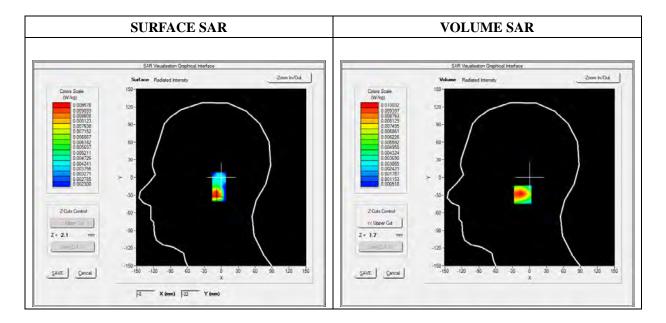
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.51; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Left head		
Device Position	Cheek		
Band	WiFi_802.11b		
Channels	Low		
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)		

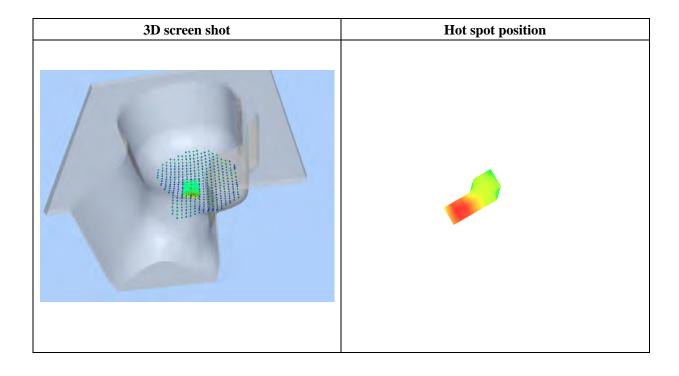
Frequency (MHz)	2412.000000
Relative Permittivity (real part)	38.153660
Conductivity (S/m)	1.740236
Power Variation (%)	1.144120
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=-8.00, Y=-29.00

SAR 10g (W/Kg)	0.004653	
SAR 1g (W/Kg)	0.009713	

0.00	4.00	9.00	14.00	19.00
0.0000	0.0098	0.0034	0.0014	0.0011
0.010-				
0.008-	\square			
₹ 0.006-				
AB COM	\			
0.004				
0.002				
0.0 2.	5 5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	
	0.0000 0.010- 0.008- 0.006- 0.004- 0.002- 0.001-	0.0000 0.0098 0.010- 0.008- 0.006- 0.002- 0.001-	0.0000 0.0098 0.0034 0.010- 0.008- 0.006- 0.002- 0.001- 0.0 2.5 5.0 7.5 10.0 12.5 15.0 17.5	0.0000 0.0098 0.0034 0.0014



Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

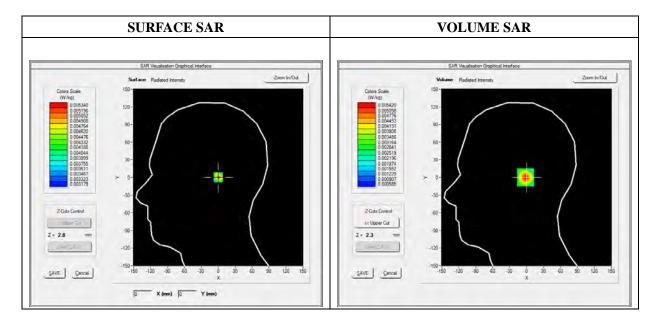
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.51; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Left head		
Device Position	Tilt		
Band	WiFi_802.11b		
Channels	Low		
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)		

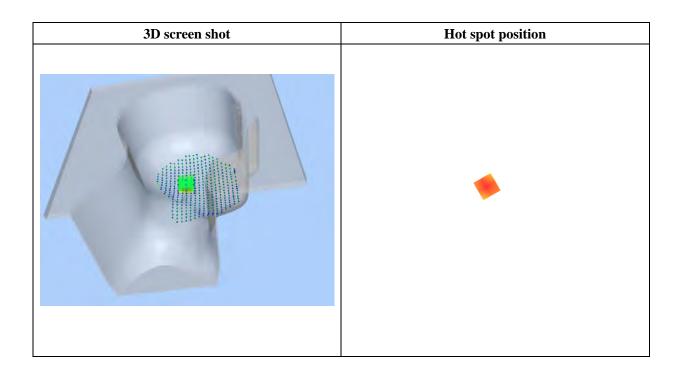
Frequency (MHz)	2412.000000
Relative Permittivity (real part)	38.153660
Conductivity (S/m)	1.740236
Power Variation (%)	1.144120
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=1.00, Y=0.00

SAR 10g (W/Kg)	0.002531
SAR 1g (W/Kg)	0.005258

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0054	0.0015	0.0006	0.0007
(8)	0.005 - 0.005 - 0.004 - 0.003 - WW 0.002 - 0.001 - 0.001 -				
	0.0 2.	5 5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

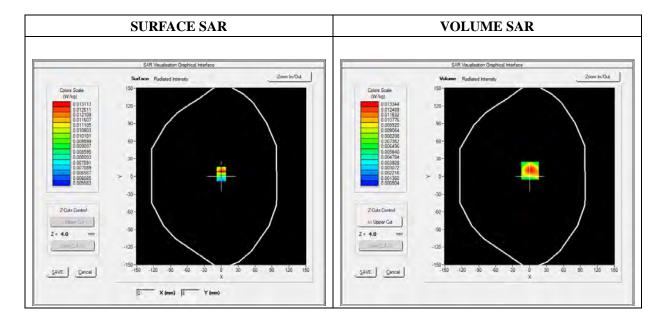
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.70; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Flat Plane	
Device Position	Back	
Band	WiFi_802.11b	
Channels	Low	
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)	

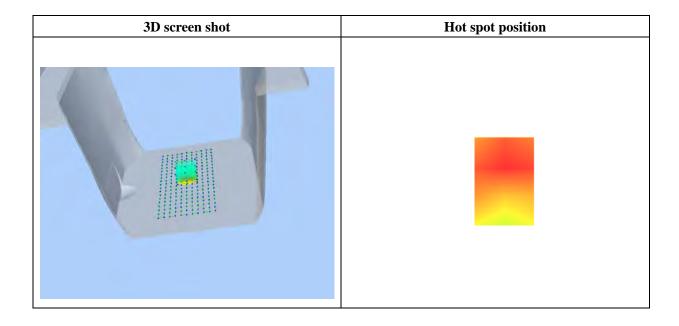
Frequency (MHz)	2412.000000
Relative Permittivity (real part)	52.0102121
Conductivity (S/m)	1.910255
Power Variation (%)	0.551121
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=1.00, Y=10.00

SAR 10g (W/Kg)	0.005886
SAR 1g (W/Kg)	0.013099

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0133	0.0036	0.0011	0.0008
((//	0.013- 0.012- 0.010- 0.008- 0.006- 0.004- 0.002- 0.001- 0.0 2.				
			Z (mm)		



Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

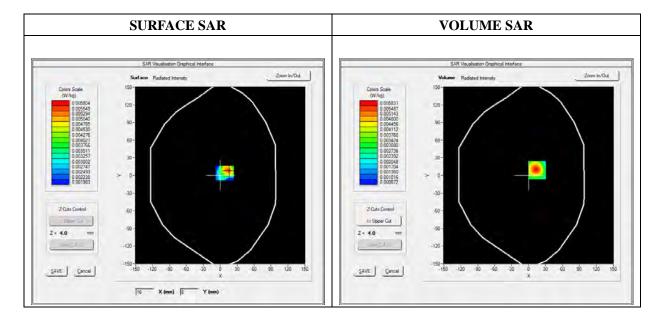
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.70; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Flat Plane	
Device Position	Front	
Band	WiFi_802.11b	
Channels	Low	
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)	

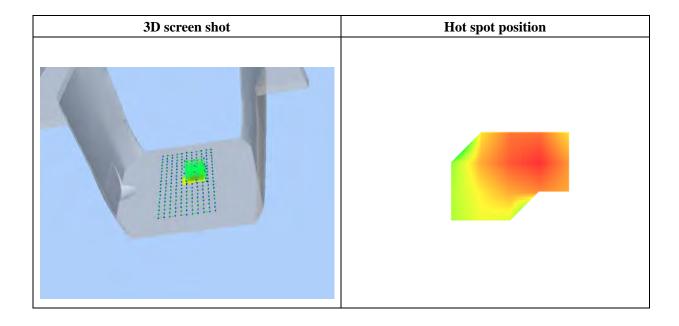
Frequency (MHz)	2412.000000
Relative Permittivity (real part)	52.0102121
Conductivity (S/m)	1.910255
Power Variation (%)	0.551121
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=15.00, Y=9.00

SAR 10g (W/Kg)	0.002769
SAR 1g (W/Kg)	0.005733

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0058	0.0018	0.0007	0.0008
	0.006-				
	0.005-				
	0.004- 8 0.003-				
	≥ cg 0.003-	+++	+++		
	0.002-			-	
	0.001-				
	0.0 2	5 5.0 7.5 10.0	12.5 15.0 17.5	20.0 22.5 25.0	
			Z (mm)		



Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

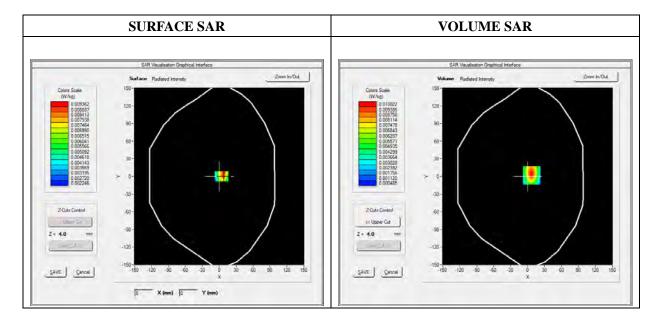
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.70; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Flat Plane	
Device Position	Left Side	
Band	WiFi_802.11b	
Channels	Low	
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)	

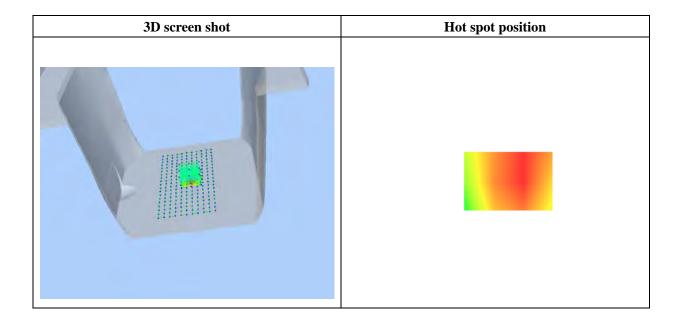
Frequency (MHz)	2412.000000
Relative Permittivity (real part)	52.0102121
Conductivity (S/m)	1.910255
Power Variation (%)	0.551121
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=7.00, Y=2.00

SAR 10g (W/Kg)	0.004243
SAR 1g (W/Kg)	0.009798

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0100	0.0026	0.0008	0.0007
	0.010- 0.008- 0.006- WW 0.006- 0.002- 0.002-				
	0.0 2	5 5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

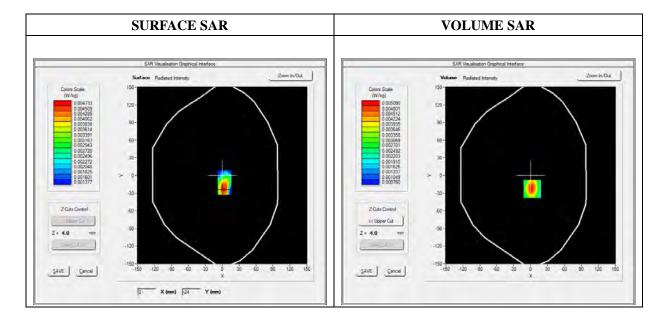
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.70; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Flat Plane		
Device Position	Top Side		
Band	WiFi_802.11b		
Channels	Low		
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)		

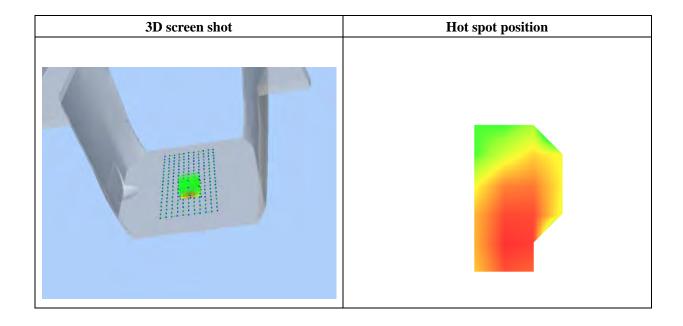
Frequency (MHz)	2412.000000		
Relative Permittivity (real part)	52.0102121		
Conductivity (S/m)	1.910255		
Power Variation (%)	0.551121		
Ambient Temperature	21.1		
Liquid Temperature	21.2		



Maximum location: X=3.00, Y=-23.00

SAR 10g (W/Kg)	0.002494	
SAR 1g (W/Kg)	0.004922	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0051	0.0017	0.0008	0.0008
	0.005- 0.004- 0.003- 0.002- 0.001- 0.0 2	5 5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

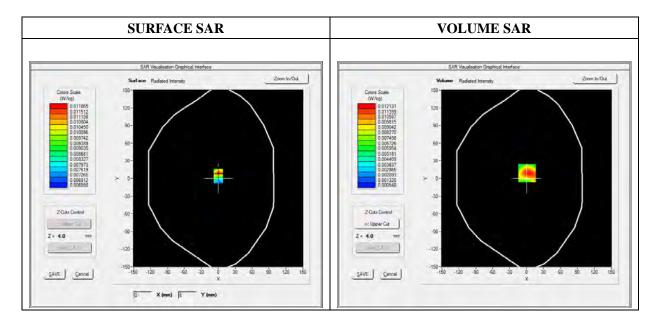
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.70; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Flat Plane		
Device Position	Back(Body-worn)		
Band	WiFi_802.11b		
Channels	Low		
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)		

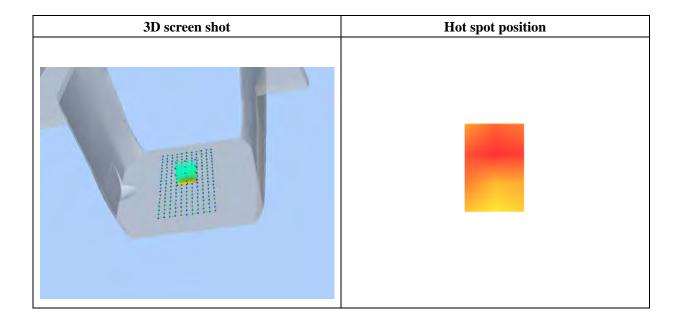
Frequency (MHz)	2412.000000
Relative Permittivity (real part)	52.0102121
Conductivity (S/m)	1.910255
Power Variation (%)	0.551121
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=1.00, Y=9.00

SAR 10g (W/Kg)	0.005527
SAR 1g (W/Kg)	0.012116

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0121	0.0031	0.0009	0.0007
	0.012-				
		\			
	0.010				
	₹ 0.008-	$\overline{}$			
	- 800.0 SAR (WKg	\longrightarrow	\perp		
	₹ 0.004-				
	0.004				
	0.002				
	0.001- 0.0 2	.5 5.0 7.5 10.0	12.5 15.0 17.5	20.0 22.5 25.0	
			Z (mm)		



Type: Phone measurement (Complete)
Date of measurement: 11/03/2014

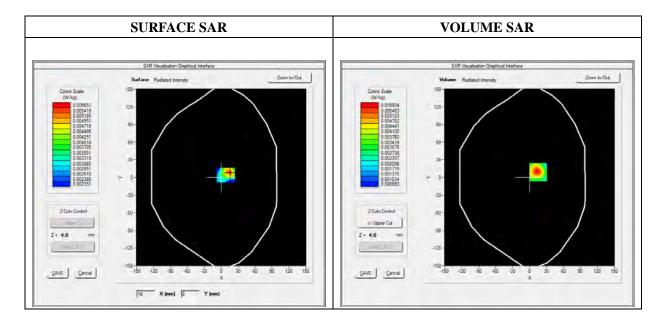
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.70; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Flat Plane		
Device Position	Front(Body-worn)		
Band	WiFi_802.11b		
Channels	Low		
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)		

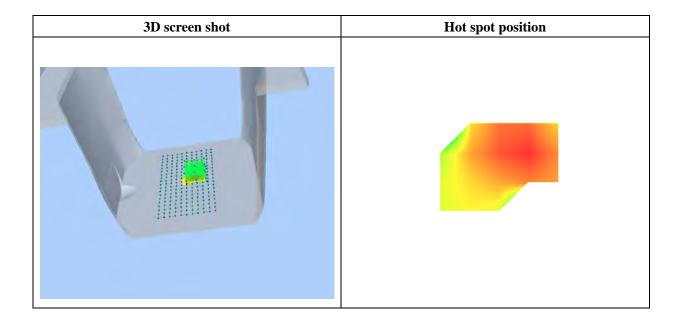
Frequency (MHz)	2412.000000
Relative Permittivity (real part)	52.0102121
Conductivity (S/m)	1.910255
Power Variation (%)	0.551121
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=15.00, Y=9.00

SAR 10g (W/Kg)	0.002752	
SAR 1g (W/Kg)	0.005669	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0058	0.0018	0.0007	0.0008
	0.006-				
	0.005-				
		N			
	0.004 - W 0.003	 			
	<u> </u>				
	SAS				
	0.002-				
	0.001- 0.0 2	.5 5.0 7.5 10.0	12.5 15.0 17.5	20.0 22.5 25.0	
	0.0 2	.5 5.0 7.5 10.0	Z (mm)	20.0 22.3 23.0	



Annex C. EUT Photos

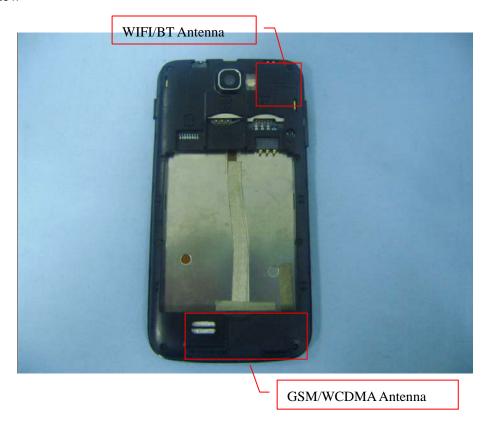
EUT View Front



EUT View Back



Antenna View



Annex D. Test Setup Photos

Test View 1 (Right Head)



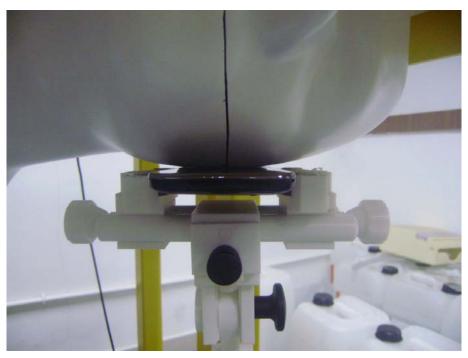


Tilt



Test View 2 (Left Head)





Tilt



Test View 3

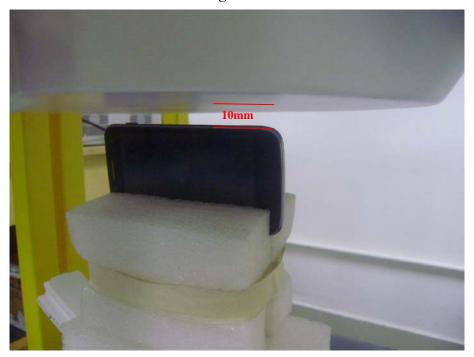




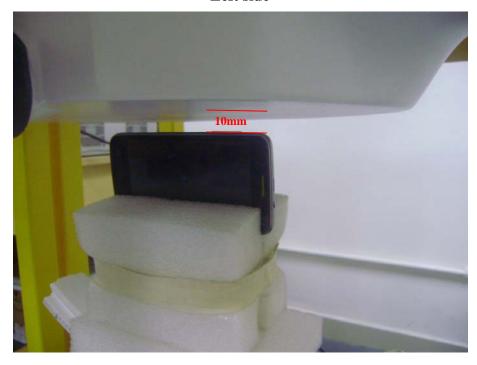
Back Side



Right side



Left side



Top Side



Body Bottom







Annex E. Calibration Certificate

Please refer to the exhibit for the calibration certificate

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