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SAR Test Report

Report No.: AGC00529140203FH01

FCC ID : Y7WPLUMZ708

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: Tablet PC

BRAND NAME : plum

MODEL NAME : Z708

CLIENT: CLC Hong Kong Limited

DATE OF ISSUE: Feb.18,2014

IEEE Std. 1528:2003

STANDARD(S) : 47CFR § 2.1093

IEEE/ANSI C95.1

REPORT VERSION: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd.

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Report Revise Record

Report V	ersion	Revise Time	Issued Date	Valid Version	Notes
V1.0)	/	Feb.18,2014	Valid	Original Report

The test plans were performed in accordance with IEEE Std. 1528:2003; 47CFR § 2.1093; IEEE/ANSI C95.1 and the following specific FCC Test Procedures:

- KDB 447498 D01 General RF Exposure Guidance v05r01
- KDB 648474 D04 SAR Handsets Multi Xmiter and Ant v01
- KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01
- KDB 941225 D01 SAR test for 3G devices v02
- KDB 941225 D02 Guidance for 3GPP R6 and R7 HSPA v02v01
- KDB 941225 D03 SAR Test Reduction GSM GPRS EDGE v01
- KDB 941225 D06 Hot Spot SAR v01
- KDB 248227 D01 SAR meas for 802 11 a b g v01r02

	Test Report Certification
Applicant Name	CLC Hong Kong Limited
Applicant Address	2209, Concordia Plaza, North Tower, No.1 Science Museum Road, Tsim Sha Tsui East, Kowloon, Hong Kong
Manufacturer Name	CLC Technology Co. Ltd
Manufacturer Address	Room 6G, Block C, NEO Building, Chegongmiao, Futian District, Shenzhen, P.R.China
Product Designation	Tablet PC
Brand Name	plum
Model Name	Z708
Different Description	N/A
EUT Voltage	DC3.7V by battery
Applicable Standard	IEEE Std. 1528:2003 47CFR § 2.1093 IEEE/ANSI C95.1
Test Date	Jan.21,2014
	Attestation of Global Compliance(Shenzhen) Co., Ltd.
Performed Location	2 F, Building 2, No.1-No.4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang Street, Bao'an District, Shenzhen, China
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1. SUMMARY OF MAXIMUM SAR VALUE

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

Highest tested and scaled SAR Summary

Exposure Position	Frequency Band	Highest Tested 1g-SAR(W/Kg)	Highest Scaled Maximum SAR(W/Kg)
	GSM 835	0.229	0.288
Hand	PCS 1900	0.118	0.149
Head	WCDMA Band II	0.551	0.568
	WCDMA Band V	0.528	0.538
	GSM 835	0.715	0.900
Dody war	PCS 1900	0.554	0.697
Body- worn	WCDMA Band II	1.188	1.250
	WCDMA Band V	1.140	1.159

Exposure Position	Test Mode	Highest Tested 1g-SAR(W/Kg)	Highest Scaled Maximum SAR(W/Kg)
Head	802.11b	0.206	0.206
	HOTSPOT	0.116	0.116
Body	802.11b	0.305	0.305
	HOTSPOT	0.148	0.148

Highest Simultaneous transmission SAR Summary

Exposure Position	Frequency Band	Highest Simultaneous SAR(W/Kg)
	GSM 835+WLAN	0.494
	PCS 1900+WLAN	0.355
Head	WCDMA Band II+WLAN	0.774
	WCDMA Band V+WLAN	0.744
	GSM 835+WLAN	1.162
Dady was	PCS 1900+WLAN	1.002
Body- worn	WCDMA Band II+WLAN	1.505
	WCDMA Band V+WLAN	1.414

This device is compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6W/Kg) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1, and had been tested in accordance with measurement methods and procedures specified in IEEE 1528-2003 and the relevant KDB files like KDB 941225 D01, KDB 941225 D03, KDB 865664 D02....etc.

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2. GENERAL INFORMATION

2.1. EUT Description

General Information				
Product Designation	Tablet PC			
Test Model	Z708			
Hardware Version	YG-MG713(B3-3)JB			
Software Version	ALPS.JB.MP.V1.15			
Device Category	Portable			
RF Exposure Environment	Uncontrolled			
Antenna Type	Internal			
GSM and GPRS	·			
Support Band				
GPRS Type	Class B			
GPRS Class	Class 12(1Tx+4Rx, 2Tx+3Rx, 3Tx+2Rx, 4Tx+1Rx)			
TX Frequency Range	GSM 850 : 824~849MHz; PCS 1900: 1850~19010MHz;			
RX Frequency Range	GSM 850 : 869~894MHz PCS 1900: 1930~1990MHz			
Release Version	R99			
Type of modulation	GMSK for GSM/GPRS			
Antenna Gain	-1.0dBi			
Max. Average Power (Max. Peak Power)	GSM850: 31.56dBm(32.42dBm- Peak Power) PCS1900: 28.56dBm(29.46dBm-Peak Power)			

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EUT Description(Continue)

EUT Description (Cor	itilide)
WCDMA	
Support Band	U.S. Bands: ⊠UMTS FDD Band II ⊠UMTS FDD Band V Non-U.S. Bands: ⊠UMTS FDD Band I ⊡UMTS FDD Band III ⊠UMTS FDD Band VIII
HS Type	HSPA(HSUPA/HSDPA)
TX Frequency Range	WCDMA FDD Band II: 1852.4 -1907.6MHz WCDMA FDD Band V: 826.4-846.6MHz
RX Frequency Range	WCDMA FDD Band II: 1930-1990MHz WCDMA FDD Band V: 869-894MHz
Release Version	Rel-6
Type of modulation	QPSK
Antenna Gain	-1.0dBi
Max. Average Power (Max. Peak Power)	Band II: 22.78dBm (23.66dBm- Peak Power) Band V: 22.61dBm (23.48dBm- Peak Power)
Bluetooth	
Bluetooth Version	□V2.0 □V2.1 □V2.1+EDR □V3.0+HS □V4.0
Operation Frequency	2402~2480MHz
Type of modulation	⊠GFSK ⊠∏/4-DQPSK ⊠8-DPSK
Avg. Burst Power	-2.69dBm
Antenna Gain	1.2dBi
WIFI	
WIFI Specification	□802.11a ⊠802.11b ⊠802.11g ⊠802.11n(20) ⊠802.11n(40)
Operation Frequency	2412~2462MHz
Avg. Burst Power	11b:11.36dBm,11g:7.79dBm,11n(20):7.89dBm,11n(40):5.91dBm
Antenna Gain	1.2dBi
Accessories	
Battery	Brand name: N/A Model No. : PL0355149P Voltage and Capacitance: 3.7 V & 3000mAh
Adapter	Brand name: N/A Model No. : WRP2U-050200U Input: AC 100-240V, 50/60Hz, 0.4A Output: DC 5V, 2A
Earphone	Brand name: N/A Model No. : N/A

Note: The sample used for testing is end product.

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2.2. Test Procedure

1	Setup the EUT and simulators as shown on above.
2	Turn on the power of all equipment.
3	EUT Communicate with 8960, and test them respectively at U.S. bands

2.3. Test Environment

Ambient conditions in the laboratory:

Items	Required	Actual
Temperature (°C)	18-25	21± 2
Humidity (%RH)	30-70	55±2

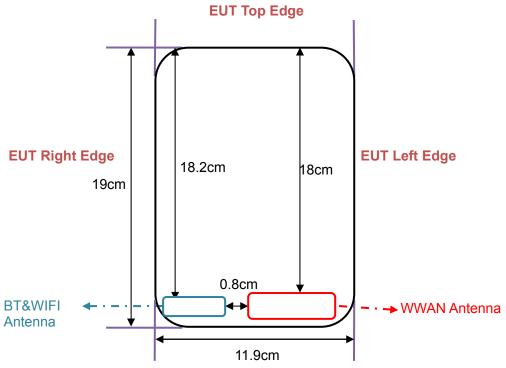
2.4. Test Configuration and setting

The EUT is a Phalet (Phone + Tablet) and supports WCDMA, BT, WIFI, and support hot spot mode.

For WWAN SAR testing, the device was controlled by using a base station emulator. Communication between the device and the emulator were established by air link. The distance between the EUT and the antenna is larger than 50cm, and the output power radiated from the emulator antenna is at least 30db smaller than the output power of EUT.

For WLAN testing, the EUT is configured with the WLAN continuous TX tool through engineering command.

Antenna Location:



EUT Bottom Edge

The separation distance for antenna to edge:

Antenna	To Top Side(cm)	To Bottom Side(cm)	To Left Side(cm)	To Right Side(cm)
WWAN	18	0.2	1.6	4.8
BT/WIFI	18.2	0.2	7.7	0.6

The simultaneous transmission possibilities are listed as below:

Simultaneous TX Combination	Configuration	Head	Body	Hotspot
1	GSM835(Voice)+WLAN/BT	Yes	Yes	Yes
2	PCS 1900(Voice)+WLAN/BT	Yes	Yes	Yes
3	WCDMA Band II+WLAN/BT	Yes	Yes	Yes
4	WCDMA Band V+WLAN/BT	Yes	Yes	Yes

3. SAR MEASUREMENT SYSTEM

3.1. Specific Absorption Rate (SAR)

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

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume (dv) of given mass 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 can be obtained using either of the following equations:

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

$$SAR = c_h \frac{dT}{dt} \Big|_{t=0}$$

Where

SAR is the specific absorption rate in watts per kilogram;
E is the r.m.s. value of the electric field strength in the tissue in volts per meter;
σ is the conductivity of the tissue in siemens per metre;
ρ is the density of the tissue in kilograms per cubic metre;
ch is the heat capacity of the tissue in joules per kilogram and Kelvin;

 $\frac{dT}{dt}$ | t=0 is the initial time derivative of temperature in the tissue in kelvins per second

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3.2. SAR Measurement Procedure

The EUT is set to transmit at the required power in line with product specification, at each frequency relating to the LOW, MID, and HIGH channel settings.

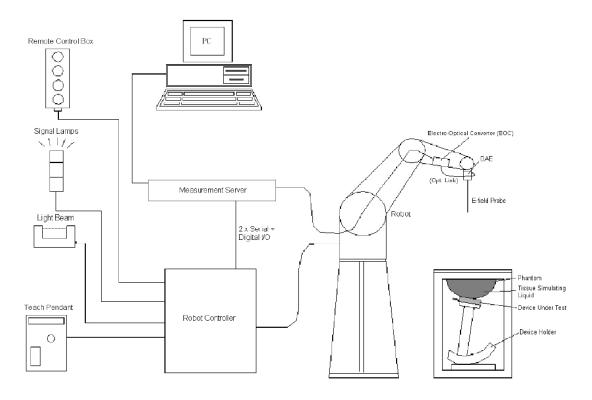
Pre-scans are made on the device to establish the location for the transmitting antenna, using a large area scan in either air or tissue simulation fluid.

The EUT is placed against the Universal Phantom where the maximum area scan dimensions are larger than the physical size of the resonating antenna. When the scan size is not large enough to cover the peak SAR distribution, it is modified by either extending the area scan size in both the X and Y directions, or the device is shifted within the predefined area.

The area scan is then run to establish the peak SAR location (interpolated resolution set at 1mm²) which is then used to orient the center of the zoom scan. The zoom scan is then executed and the 1g and 10g averages are derived from the zoom scan volume (interpolated resolution set at 1mm³).

When multiple peak SAR location were found during the same configuration or test mode, Zoom scan shall performed on each peak SAR location, only the peak point with maximum SAR value will be reported for the configuration or test mode.

3.3. COMOSAR System Description



The COMOSAR system for performing compliance tests consists of the following items:

- A standard high precision 6-axis robot with controller, teach pendant and software.
- An arm extension for accommodating the data acquisition electronics (DAE).
- A standard acquisition electronics (DAE) which performs the signal amplification, signal
 multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc.
 The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the
 EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital Communicate Mobile to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running WinXP and the Opensar software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

3.3.1. Applications

Predefined procedures and evaluations for automated compliance testing with all worldwide standards, e.g., IEEE 1528, OET 65, IEC 62209-1, IEC 62209-2, EN 50360, EN 50383 and others.

3.3.2. Area Scans

Area scans are defined prior to the measurement process being executed with a user defined variable spacing between each measurement point (integral) allowing low uncertainty measurements to be conducted. Scans defined for FCC applications utilize a 10mm² step integral, with 1mm interpolation used to locate the peak SAR area used for zoom scan assessments.

When an Area Scan has measured all reachable points, it computes the field maxima found in the scanned area, within a range of the global maximum. The range (in dB) is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE 1528-2003, EN 50361 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan).

3.3.3. Zoom Scan (Cube Scan Averaging)

Zoom Scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 g and 10 g of simulated tissue. A density of 1000 kg/m³ is used to represent the head and body tissue density and not the phantom liquid density, in order to be consistent with the definition of the liquid dielectric properties, i.e. the side length of the 1 g cube is 10mm, with the side length of the 10 g cube 21,5mm.

The zoom scan integer steps can be user defined so as to reduce uncertainty, but normal practice for typical test applications utilize a physical step of 7x7x7 (5mmx5mmx5mm) providing a volume of 30mm in the X & Y axis, and 30mm in the Z axis.

3.3.4. Uncertainty of Inter-/Extrapolation and Averaging

In order to evaluate the uncertainty of the interpolation, extrapolation and averaged SAR calculation algorithms of the Post processor, COMOSAR allows the generation of measurement grids which are artificially predefined by analytically based test functions. Therefore, the grids of area scans and zoom scans can be filled with uncertainty test data, according to the SAR benchmark functions of IEEE 1528. The three analytical functions shown in equations as below are used to describe the possible range of the expected SAR distributions for the tested handsets. The field gradients are covered by the spatially flat distribution f1, the spatially steep distribution f3 and f2 accounts for H-field cancellation on the phantom/tissue surface.

$$f_1(x,y,z) = Ae^{-\frac{z}{2a}}\cos^2\left(\frac{\pi}{2}\frac{\sqrt{x'^2 + y'^2}}{5a}\right)$$

$$f_2(x,y,z) = Ae^{-\frac{z}{a}}\frac{a^2}{a^2 + x'^2}\left(3 - e^{-\frac{2z}{a}}\right)\cos^2\left(\frac{\pi}{2}\frac{y'}{3a}\right)$$

$$f_3(x,y,z) = A\frac{a^2}{\frac{a^2}{4} + x'^2 + y'^2}\left(e^{-\frac{2z}{a}} + \frac{a^2}{2(a+2z)^2}\right)$$

3.4. COMOSAR E-Field Probe

The SAR measurement is conducted with the dissymmetric probe manufactured by SATIMO. The probe is specially designed and calibrated for use in liquid with high permittivity. The dissymmetric probe has special calibration in liquid at different frequency. SATIMO conducts the probe calibration in compliance with international and national standards (e.g. IEEE 1528, EN62209-1, IEC 62209, etc.) under ISO17025. The calibration data are in Appendix D.

3.5. Isotropic E-Field Probe Specification

Model	EP165	
Manufacture	SATIMO	
Frequency	0.03GHz-3 GHz Linearity:±0.2dB(30 MHz-3 GHz)	52549
Dynamic Range	0.01W/Kg-100W/Kg Linearity:±0.2dB	
Dimensions	Overall length:330mm Length of individual dipoles:4.5mm Maximum external diameter:8mm Probe Tip external diameter:5mm Distance between dipoles/ probe extremity:2.7mm	
Application	High precision dosimetric measurements in any exp (e.g., very strong gradient fields). Only probe which compliance testing for frequencies up to 3 GHz with 30%.	enables

3.6. Robot

The COMOSAR system uses the KUKA robot from SATIMO SA (France). For the 6-axis controller COMOSAR system, the KUKA robot controller version from SATIMO is used.

The XL robot series have many features that are important for our application:

High precision (repeatability 0.02 mm)

High reliability (industrial design)

Jerk-free straight movements

Low ELF interference (the closed metallic

construction shields against motor control fields)

6-axis controller

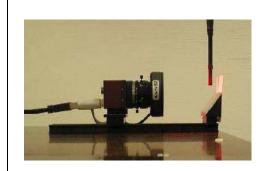


3.7. Video Positioning System

The video positioning system is used in OpenSAR to check the probe. Which is composed of a camera, LED, mirror and mechanical parts. The camera is piloted by the main computer with firewire link.

During the process, the actual position of the probe tip with respect to the robot arm is measured, as well as the probe length and the horizontal probe offset. The software then corrects all movements, such that the robot coordinates are valid for the probe tip.

The repeatability of this process is better than 0.1 mm. If a position has been taught with an aligned probe, the same position will be reached with another aligned probe within 0.1 mm, even if the other probe has different dimensions. During probe rotations, the probe tip will keep its actual position.



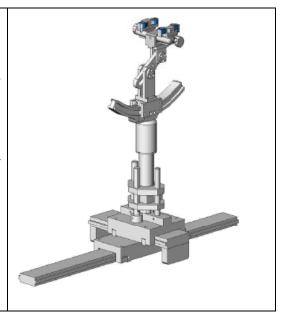
3.8. Device Holder

The COMOSAR device holder is designed to cope with

different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation center for both scales is the ear reference point (EPR).

Thus the device needs no repositioning when changing the angles.

The COMOSAR device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity ϵ r =3 and loss tangent δ = 0.02. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.



3.9. SAM Twin Phantom

The SAM twin phantom is a fiberglass shell phantom with 2mm shell thickness (except the ear region where shell thickness increases to 6mm). It has three measurement areas:

Left head Right head Flat phantom



The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

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4. TISSUE SIMULATING LIQUID

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 5cm. For head SAR testing the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 5cm For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15cm. The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 5% are listed in 4.2

4.1. The composition of the tissue simulating liquid

Ingredient	835MHz	835MHz	1900MHz	1900MHz	2450MHz	2450MHz
(% Weight)	Head	Body	Head	Body	Head	Body
Water	40.45	52.4	54.90	40.5	46.7	73.2
Salt	1.42	1.40	0.18	0.50	0.00	0.04
Sugar	57.6	45.0	0.00	58.0	0.00	0.00
HEC	0.40	1.00	0.00	0.50	0.00	0.00
Preventol	0.10	0.20	0.00	0.50	0.00	0.00
DGBE	0.00	0.00	44.92	0.00	53.3	26.7
TWEEN	0.00	0.00	0.00	0.00	0.00	0.00

4.2. Tissue Calibration Result

The dielectric parameters of the liquids were verified prior to the SAR evaluation using COMOSAR Dielectric Probe Kit and R&S Network Analyzer ZVL6.

	Tissue Stimulant Measurement for 835MHz									
Fr.	head		d	body		Tissue Temp	Test time			
(MHz)	OII.	εr 41.5 39.425-43.575	δ[s/m] 0.90 0.855-0.945	εr 55.20 52.44-57-96	55.20 0.97					
835	Low	41.21	0.87	53.88	0.95	21	Jan.21,2014			
835	Mid	41.55	0.91	54.13	0.94	21	Jan.21,2014			
835	High	42.02	0.92	53.62	0.97	21	Jan.21,2014			

	Tissue Stimulant Measurement for 1900MHz										
Fr.	Ch.	head	head body		dy	Tissue Temp	Test time				
(MHz)	OII.	εr	δ[s/m]	εr	δ[s/m]		iest tille				
		40.00	1.40	53.30	1.52	[-]					
		38.00-42.00	1.33-1.47	50.635-55.965	1.444-1.596						
1900	Low	39.44	1.40	53.29	1.48	21	Jan.21,2014				
1900	Mid	40.81	1.35	54.07	1.52	21	Jan.21,2014				
1900	High	39.72	1.41	53.28	1.48	21	Jan.21,2014				

			for 2450MHz				
			Dielectric Pa	rameters (±5%)			
Fr.	Fr. Ch.		d	body		Tissue Temp	Test time
(MHz)	OH.	εr 39.2 37.24-41.16	δ[s/m] εr δ[s/m] 1.80 52.7 1.95 1.71-1.89 50.065-55.335 1.8525-2.0475			[°C]	root time
2450	Low	39.12	1.78	53.08	1.90	21	Jan.21,2014
2450	Mid	39.56	1.81	52.73	1.88	21	Jan.21,2014
2450	High	40.03	1.78	52.87	1.95	21	Jan.21,2014

4.3. 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.

Target Frequency	he	ad	bo	ody
(MHz)	εr	σ (S/m)	εr	σ (S/m)
300	45.3	0.87	58.2	0.92
450	43.5	0.87	56.7	0.94
835	41.5	0.90	55.2	0.97
900	41.5	0.97	55.0	1.05
915	41.5	1.01	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610	40.3	1.29	53.8	1.40
1800 – 2000	40.0	1.40	53.3	1.52
2450	39.2	1.80	52.7	1.95
3000	38.5	2.40	52.0	2.73
5800	35.3	5.27	48.2	6.00

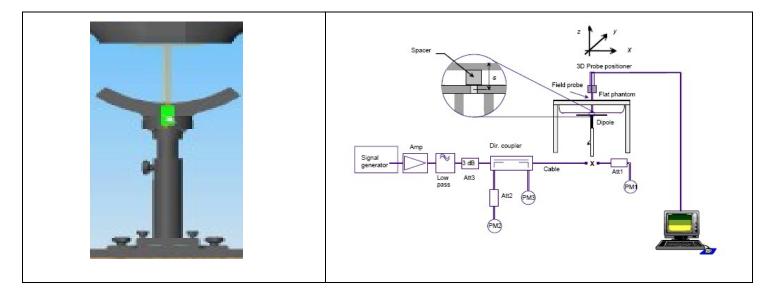
($\epsilon r = relative permittivity$, $\sigma = conductivity and <math>\rho = 1000 \text{ kg/m3}$)

5. SAR MEASUREMENT PROCEDURE

5.1. SAR System Validation Procedures

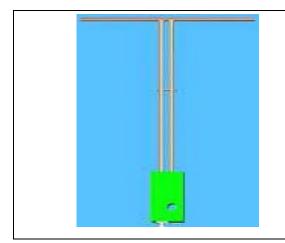
Each SATIMO system is equipped with one or more system validation kits. These units, together with the predefined measurement procedures within the SATIMO software, enable the user to conduct the system performance check and system validation. System kit includes a dipole, and dipole device holder.

The system check verifies that the system operates within its specifications. It's performed daily or before every SAR measurement. The system check uses normal SAR measurement in the flat section of the phantom with a matched dipole at a specified distance. The system validation setup is shown as below.



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5.2. SAR System Validation5.2.1. Validation Dipoles



The dipoles used is based on the IEEE-1528 standard, and is complied with mechanical and electrical specifications in line with the requirements of both IEEE and FCC Supplement C. the table below provides details for the mechanical and electrical Specifications for the dipoles.

Frequency	L (mm)	h (mm)	d (mm)
900 MHz	149.0	83.3	3.6
1900MHz	68	39.5	3.6
2450MHz	51.5	30.4	3.6

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5.2.2. Validation Result

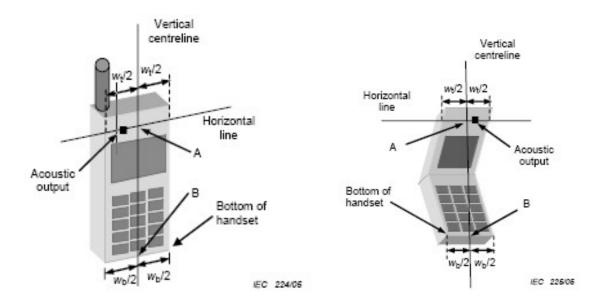
System Performance Check at 835 MHz &1900MHz & 2450MHz for Head Validation Kit: SN 46/11DIP 0G900-185 & SN 46/11DIP 1G900-187 &SN 46/11DIP 2G450-189										
Frequency		get W/Kg)	get Reference Result Tested				Tissue Temp.	Test time		
[MHz]	1g	10g	1g	10g	1g	10g	[°Cj			
835	10.9	6.99	9.81 -11.99	6.29 - 7.69	10.41	6.74	21	Jan.21,2014		
1900	39.7	20.5	35.73 - 43.67	18.45 -22.55	39.89	20.62	21	Jan.21,2014		
2450	52.4	24	47.16 - 57.64	21.6 - 26.4	49.56	23.59	21	Jan.21,2014		

6. EUT TEST POSITION

This EUT was tested in Front Face, Rear Face, Right Side, Left Side, Top side and Bottom Side

6.1. Define Two Imaginary Lines on the Handset

- (1)The vertical centerline passes through two points on the front side of the handset the midpoint of the width wt of the handset at the level of the acoustic output, and the midpoint of the width wb of the handset.
- (2)The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output. The horizontal line is also tangential to the face of the handset at point A.
- (3)The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.



6.2. Cheek Position

- (1) To position the device with the vertical center line of the body of the device and the horizontal line crossing the center picec in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE.
- (2) To move the device towards the phantom with the ear piece aligned with the the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost





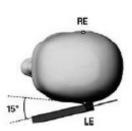


6.3. Title Position

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

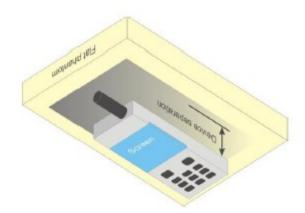


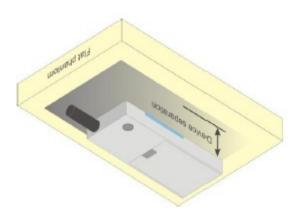




6.4. Body Worn Position

- (1) To position the EUT parallel to the phantom surface.
- (2) To adjust the EUT parallel to the flat phantom.
- (3) To adjust the distance between the EUT surface and the flat phantom to **0mm**. (Hotspot mode the distance of **10mm**).





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7. SAR EXPOSURE LIMITS

SAR assessments have been made in line with the requirements of IEEE-1528, FCC Supplement C, and comply with ANSI/IEEE C95.1-1992 "Uncontrolled Environments" limits. These limits apply to a location which is deemed as "Uncontrolled Environment" which can be described as a situation where the general public may be exposed to an RF source with no prior knowledge or control over their exposure.

Limits for General Population/Uncontrolled Exposure (W/kg)

Type Exposure	Uncontrolled Environment Limit
Spatial Peak SAR (1g cube tissue for brain or body)	1.60 W/kg

8. TEST EQUIPMENT LIST

Equipment description	Manufacturer/ Model	Identification No.	Current calibration date	Next calibration date	
SAR Probe	SATIMO	SN 04/13 EP165	01/31/2013	01/30/2014	
Phantom	SATIMO	SN_4511_SAM90	Validated. No cal required.	Validated. No cal required.	
Liquid	SATIMO	-	Validated. No cal required.	Validated. No cal required.	
Comm Tester	R&S - CMU200	069Y7-158-13-712	02/28/2013	02/27/2014	
Comm Tester	Agilent-8960	GB46310822	10/22/2013	10/21/2014	
Multimeter	Keithley 2000	1188656	02/28/2013	02/27/2014	
Dipole	SATIMO SID900	SN46/11 DIP 0G900-185	11/14/2013	11/13/2015	
Dipole	SATIMO SID1900	SN46/11 DIP 1G900-187	11/14/2013	11/13/2015	
Dipole	SATIMO SID2450	SN46/11 DIP 2G450-189	11/14/2013	11/13/2015	
Amplifier	Aethercomm	SN 046	12/08/2013	12/07/2014	
Signal Generator	Agilent-E4421B	MY43351603	05/13/2013	05/12/2014	
Power Probe	HP E4418A	US38261498	02/28/2013	02/27/2014	
SPECTRUM ANALYZER	Agilent/E4440A	MY44303916	10/22/2013	10/21/2014	
Power Attenuator	BED	DLA-5W	07/30/2013	07/29/2014	
Network Analyzer	Rhode & Schwarz ZVA	SN100132	02/28/2013	02/27/2014	

Note: Per KDB 50824 Dipole SAR Validation Verification, AGC Lab has adopted 3 years calibration intervals. On annual basis, every measurement dipole has been evaluated and is in compliance with the following criteria:

- 1. There is no physical damage on the dipole;
- 2. System validation with specific dipole is within 10% of calibrated value;
- 3. Return-loss is within 20% of calibrated measurement;
- 4. Impedance is within 5Ω of calibrated measurement.

9. MEASUREMENT UNCERTAINTY

	CATIMO Uncortainty									
Magau	SATIMO Uncertainty Measurement uncertainty for 30 MHz to 3 GHz averaged over 1 gram / 10 gram.									
Measu	rement un	certaini	Í				Std.	Std.		
Error Description	Sec	Sec	Tol (±%)	Prob. Dist.	(Ci) 1g	(Ci) 10g	Unc. (1g) (±%)	Unc. (10g)(±%)	(Vi) Veff	
			Mea	sureme	nt System		, ,	, , ,	•	
Probe Calibration	E.2.1	6	N	1	1	1	6	6	∞	
Axial Isotropy	E.2.2	3	R	$\sqrt{3}$	$(1-C_p)^{1/2}$	$(1-C_p)^{1/2}$	1.22474	1.22474	∞	
Hemispherical Isotropy	E.2.2	5	R	$\sqrt{3}$	$\sqrt{C_p}$	$\sqrt{C_p}$	2.04124	2.04124	∞	
Boundary Effects	E.2.3	1	R	$\sqrt{3}$	1	1	0.57735	0.57735	∞	
Linearity	E.2.4	5	R	$\sqrt{3}$	1	1	2.88675	2.88675	∞	
System Detection Limits	E.2.5	1	R	$\sqrt{3}$	1	1	0.57735	0.57735	∞	
Readout Electronics	E.2.6	0.5	N	1	1	1	0.5	0.5	8	
Response Time	E.2.7	0.2	R	$\sqrt{3}$	1	1	0.11547	0.11547	8	
Integration Time	E.2.8	2	R	$\sqrt{3}$	1	1	1.1547	1.1547	8	
RF Ambient Noise	E.6.1	3	R	$\sqrt{3}$	1	1	1.73205	1.73205	∞	
Probe Positioner Mechanical Tolerance	E.6.2	2	R	$\sqrt{3}$	1	1	1.1547	1.1547	∞	
Probe Positioning with Respect to Phantom Shell	E.6.3	1	R	$\sqrt{3}$	1	1	0.57735	0.57735	8	
Extrapolation, interpolation and Integration Algorithms for Max. SAR Evaluation	E.5.2	1.5	R	$\sqrt{3}$	1	1	0.86603	0.86603	∞	
Dipole										
Device Positioning	8,E.4.2	1	Ν	$\sqrt{3}$	1	1	0.57735	0.57735	N-1	
Power Drift	8.6.6.2	2	R	$\sqrt{3}$	1	1	1.1547	1.1547	∞	
Phantom and Tissue Parameters										
Phantom Uncertainty	E.3.1	4	R	$\sqrt{3}$	1	1	2.3094	2.3094	∞	
Liquid Conductivity (target)	E.3.2	5	R	$\sqrt{3}$	0.64	0.43	1.84752	1.2413	∞	
Liquid Conductivity (meas.)	E.3.3	2.5	N	1	0.64	0.43	1.6	1.075	∞	
Liquid Permittivity (target)	E.3.2	3	R	$\sqrt{3}$	0.6	0.49	1.03923	0.8487	∞	
Liquid Permittivity (meas.)	E.3.3	2.5	Ν	1	0.6	0.49	1.5	1.225	M	
Combined Standard Uncertainty			RSS				8.09272	7.9296		
Expanded Uncertainty (95%CONFIDENCE INTERVAL)			k				16.18544	15.8592		

10. CONDUCTED POWER MEASUREMENT GSM BAND

Mode	Frequency(MHz)	Avg. Burst	Duty cycle	Frame
Maximum Dayyar 41		Power(dBm)	Factor(dBm)	Power(dBm)
Maximum Power <1		04.50	1 0	00.50
0014.005	824.2	31.56	-9	22.56
GSM 835	836.6	31.44	-9	22.44
	848.8	31.36	-9	22.36
GPRS 835	824.2	31.22	-9	22.22
(1 Slot)	836.6	31.17	-9	22.17
	848.8	31.13	-9	22.13
GPRS 835	824.2	28.43	-6	22.43
(2 Slot)	836.6	28.36	-6	22.36
,	848.8	28.41	-6	22.41
GPRS 835	824.2	26.48	-4.26	22.22
(3 Slot)	836.6	26.51	-4.26	22.25
(0 0101)	848.8	26.34	-4.26	22.08
GPRS 835	824.2	25.39	-3	22.39
(4 Slot)	836.6	25.25	-3	22.25
(4 0101)	848.8	25.47	-3	22.47
	1850.2	28.38	-9	19.38
PCS1900	1880	28.56	-9	19.56
	1909.8	28.42	-9	19.42
ODD04000	1850.2	28.34	-9	19.34
GPRS1900 (1 Slot)	1880	28.36	-9	19.36
(1300)	1909.8	28.28	-9	19.28
00004000	1850.2	25.27	-6	19.27
GPRS1900 (2 Slot)	1880	25.46	-6	19.46
(2 3101)	1909.8	25.41	-6	19.41
00004000	1850.2	24.45	-4.26	20.19
GPRS1900	1880	24.49	-4.26	20.23
(3 Slot)	1909.8	24.34	-4.26	20.08
00001111	1850.2	22.41	-3	19.41
GPRS1900	1880	22.52	-3	19.52
(4 Slot)	1909.8	22.43	-3	19.43
Maximum Power <2			I	
GSM 835	824.2	31.09	-9	22.09
PCS1900	1880	28.17	-9	19.17
Note 1:	1 222			1

Note 1:

The Frame Power (Source-based time-averaged Power) is scaled the maximum burst average power based on time slots. The calculated methods are show as following:

Frame Power = Max burst power (1 Up Slot) – 9 dB

Frame Power = Max burst power (2 Up Slot) – 6 dB

Frame Power = Max burst power (3 Up Slot) -4.26dB

Frame Power = Max burst power (4 Up Slot) – 3 dB

UMTS BAND II

Mada	Frequency	Avg. Burst Power			
Mode	(MHz)	(dBm)			
MODMA 4000	1852.4	22.78			
WCDMA 1900	1880	22.65			
RMC	1907.6	22.56			
MODMA 4000	1852.4	22.33			
WCDMA 1900	1880	22.27			
AMR	1907.6	22.22			
LICDDA	1852.4	22.36			
HSDPA	1880	22.28			
Subtest 1	1907.6	22.34			
LIODDA	1852.4	22.36			
HSDPA	1880	22.27			
Subtest 2	1907.6	22.24			
HCDDA	1852.4	22.33			
HSDPA	1880	22.24			
Subtest 3	1907.6	22.36			
LICDDA	1852.4	22.39			
HSDPA Subtest 4	1880	22.34			
Sublest 4	1907.6	22.24			
HSUPA	1852.4	22.35			
Subtest 1	1880	22.24			
Sublest 1	1907.6	22.18			
HSUPA	1852.4	22.19			
Subtest 2	1880	22.14			
Sublest 2	1907.6	22.26			
HSUPA	1852.4	22.29			
Subtest 3	1880	22.28			
วนมเฮรเ ว	1907.6	22.12			
HSUPA	1852.4	22.15			
Subtest 4	1880	22.14			
วนมเฮอเ 4	1907.6	22.19			
HSUPA	1852.4	22.26			
Subtest 5	1880	22.27			
Jubical J	1907.6	22.18			

UMTS BAND V

Mode	Frequency	Avg. Burst Power			
Wode	(MHz)	(dBm)			
WCDMA 835	826.4	22.61			
	832.2	22.53			
RMC	846.6	22.54			
MACDAAA OOF	826.4	22.48			
WCDMA 835	832.2	22.37			
AMR	846.6	22.44			
LICDDA	826.4	22.36			
HSDPA	832.2	22.18			
Subtest 1	846.6	22.21			
LICDDA	826.4	22.42			
HSDPA	832.2	22.31			
Subtest 2	846.6	22.38			
LICDDA	826.4	22.41			
HSDPA	832.2	22.34			
Subtest 3	846.6	22.36			
LICDDA	826.4	22.39			
HSDPA	832.2	22.22			
Subtest 4	846.6	22.33			
LICUDA	826.4	22.29			
HSUPA	832.2	22.11			
Subtest 1	846.6	22.18			
LICUIDA	826.4	22.24			
HSUPA	832.2	22.12			
Subtest 2	846.6	22.18			
LICUDA	826.4	22.24			
HSUPA	832.2	22.14			
Subtest 3	846.6	22.18			
LICUTA	826.4	22.28			
HSUPA	832.2	22.15			
Subtest 4	846.6	22.18			
LICUTA	826.4	22.27			
HSUPA	832.2	22.17			
Subtest 5	846.6	22.23			

WIFI

Mode	Data Rate (Mbps)	Channel	Frequency(MHz)	Avg. Burst Power(dBm)	
		01	2412	11	
802.11b	1	06	2437	11.36	
		11	2462	11.35	
		01	2412	6.09	
802.11g	6	06	2437	7.79	
		01 06 11 01 06 11 01 01 5 06 11 03	2462	5.92	
802.11n(20)		01	2412	6.07	
	6.5	06	2437	7.89	
		01 06 11 01 01 05.5 06 11 03	2462	5.84	
	13.5	03	2422	4.73	
802.11n(40)		06	2437	5.91	
		09	2452	4.25	

Bluetooth V3.0

Blactootii_10.0			
Modulation	Channel	Frequency(MHz)	Average Power (dBm)
	0	2402	-3.51
GFSK	39	2441	-3.11
	78	2480	-2.69
	0	2402	-4.53
π /4-DQPSK	39	2441	-3.94
	78	2480	-3.45
	0	2402	-4.61
8-DPSK	39	2441	-4.05
	78	2480	-3.54

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According to 3GPP 25.101 sub-clause 6.2.2, the maximum output power is allowed to be reduced by following the table.

Table 6.1aA: UE maximum output power with HS-DPCCH and E-DCH

UE Transmit Channel Configuration	CM(db)	MPR(db)				
For all combinations of ,DPDCH,DPCCH HS-DPDCH,E-DPDCH and E-DPCCH	0≤ CM≤3.5	MAX(CM-1,0)				
Note: CM=1 for β_c/β_d =12/15, β_{hs}/β_c =24/15.For all other combinations of DPDCH, DPCCH, HS-DPCCH,						
E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.						

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

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

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

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

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11. TEST RESULTS

11.1. SAR Test Results Summary

11.1.1. Test position and configuration

Head SAR was performed with the device configured in the positions according to IEEE1528, and Body SAR was performed with the device 0mm from the phantom; Body SAR was also performed with the headset attached and without. The overall device length and width(19cm×11.9cm) are>9cm×5cm, Hotspot mode with a test separation distance of 10mm.

11.1.2. Operation Mode

- According to KDB 447498 D01 v05r01 ,for each exposure position, if the highest 1-g SAR is \leq 0.8 W/kg, testing for low and high channel is optional.
- Per KDB 865664 D01 v01r01,for each frequency band, if the measured SAR is ≥0.8W/Kg, testing for repeated SAR measurement is required, that the highest measured SAR is only to be tested. When the SAR results are near the limit, the following procedures are required for each device to verify these types of SAR measurement related variation concerns by repeating the highest measured SAR configuration in each frequency band.
- (1) When the original highest measured SAR is ≥ 0.8 W/Kg, repeat that measurement once.
- (2) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is >1.20 or when the original or repeated measurement is >1.45 W/Kg.
- (3) Perform a third repeated measurement only if the original, first and second repeated measurement is \geq 1.5 W/Kg and ratio of largest to smallest SAR for the original, first and second measurement is \geq 1.20.
- Body-worn exposure conditions are intended to voice call operations, therefore GSM voice call mode is selected to be test.
- According to KDB 648474 D04 v01r01,when the reported SAR for a body-worn accessory measured without a headset connected to the handset is ≤1.2W/Kg, SAR testing with a headset connected is not required.
- According to 941225 D06, when the overall device length and width are > 9cm × 5cm, Hotspot mode with a test separation distance of 10mm. For device with form factors smaller than 9cm × 5cm, Hotspot mode with a test separation distance of 5mm. Body SAR was also performed with the headset attached and without.
- According to 248227 D01, SAR is not required for 802.11g channels when the maximum average output power is less than 1/4dB higher than measured on the corresponding 802.11b channels.
- •Maximum Scaling SAR in order to calculate the Maximum SAR values to test under the standard Peak Power, Calculation method is as follows:
- Maximum Scaling SAR =tested SAR (Max.) \times GSM[maximum turn-up power (mw)/ maximum measurement output power(mw)]

11.1.3. Test Result

SAR MEASU	REMENT								
Ambient Temperature (°C) : 21 ± 2				Relative Humidity (%): 55					
Liquid Temperature (°C) : 21 ± 2				Depth of Liquid (cm):>15					
Product: Tabl	et PC								
Test Mode: G	SM835 with GMSK mo	dulation							
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Turn-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit W/kg
SIM 1 Card									
Left Cheek	voice	190	836.6	1.37	0.229	32.44	31.44	0.288	1.6
Left Tilt	voice	190	836.6	0.28	0.118	32.44	31.44	0.149	1.6
Right Cheek	voice	190	836.6	1.59	0.123	32.44	31.44	0.155	1.6
Right Tilt	voice	190	836.6	0.82	0.135	32.44	31.44	0.170	1.6
Body back	voice	190	836.6	0.77	0.715	32.44	31.44	0.900	1.6
Body front	voice	190	836.6	1.39	0.346	32.44	31.44	0.436	1.6
Horizontal(1)	voice	190	836.6	0.57	0.155	32.44	31.44	0.195	1.6
Horizontal(2)	voice	190	836.6	1.22	0.068	32.44	31.44	0.086	1.6
Vertical(1)	voice	190	836.6	0.91	0.633	32.44	31.44	0.797	1.6
Vertical(2)	voice	190	836.6	0.82	0.057	32.44	31.44	0.072	1.6
SIM 2 Card									
Left Cheek	voice	190	836.6	0.77	0.137	32.44	31.44	0.172	1.6

Note:

<sup>When the 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 941225.
The test separation for body is 0mm of all above table.
The worst mode is voice mode.</sup>

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SAR MEASU	REMENT								
Ambient Temperature (°C) : 21 ± 2				Relative Humidity (%): 55					
Liquid Temperature (°C) : 21 ± 2				Depth of Liquid (cm):>15					
Product: Tablet PC									
Test Mode: P	Test Mode: PCS1900 with GMSK modulation								
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Turn-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit W/kg
SIM 1 Card									
Left Cheek	voice	661	1880.0	0.37	0.118	29.56	28.56	0.149	1.6
Left Tilt	voice	661	1880.0	1.39	0.084	29.56	28.56	0.106	1.6
Right Cheek	voice	661	1880.0	0.51	0.078	29.56	28.56	0.098	1.6
Right Tilt	voice	661	1880.0	1.33	0.054	29.56	28.56	0.068	1.6
Body back	voice	661	1880.0	0.72	0.517	29.56	28.56	0.651	1.6
Body front	voice	661	1880.0	1.61	0.242	29.56	28.56	0.305	1.6
Horizontal(1)	voice	661	1880.0	0.77	0.254	29.56	28.56	0.320	1.6
Horizontal(2)	voice	661	1880.0	1.69	0.015	29.56	28.56	0.019	1.6
Vertical(1)	voice	661	1880.0	0.33	0.554	29.56	28.56	0.697	1.6
Vertical(2)	voice	661	1880.0	-0.77	0.015	29.56	28.56	0.019	1.6
SIM 2 Card	SIM 2 Card								
Left Cheek	voice	661	1880.0	-0.19	0.113	29.56	28.56	0.142	1.6

Note:

- When the 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 941225.
 The test separation for body is 0mm of all above table.
 The worst mode is voice mode.

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SAR MEASU	IREMENT											
Ambient Tem	perature (°C) : 21 ± 2			Relative	Humidity ((%): 55						
Liquid Tempe	erature (°C) : 21 ± 2			Depth of Liquid (cm):>15								
Product: Tab	let PC											
Test Mode: WCDMA Band II with QPSK modulation												
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Turn-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit W/kg			
SIM 1 Card												
Left Cheek	RMC 12.2kbps	9400	1880	0.19	0.551	22.78	22.65	0.568	1.6			
Left Tilt	RMC 12.2kbps	9400	1880	2.09	0.115	22.78	22.65	0.118	1.6			
Right Cheek	RMC 12.2kbps	9400	1880	1.34	0.485	22.78	22.65	0.500	1.6			
Right Tilt	RMC 12.2kbps	9400	1880	0.57	0.114	22.78	22.65	0.117	1.6			
Body back	RMC 12.2kbps	9262	1852.4	0.24	0.963	22.78	22.78	0.963	1.6			
Body back	RMC 12.2kbps	9400	1880	1.64	1.046	22.78	22.65	1.078	1.6			
Body back	RMC 12.2kbps	9538	1907.6	2.04	1.188	22.78	22.56	1.250	1.6			
Body front	RMC 12.2kbps	9400	1880	1.51	0.513	22.78	22.65	0.529	1.6			
Horizontal(1)	RMC 12.2kbps	9400	1880	1.84	0.574	22.78	22.65	0.591	1.6			
Horizontal(2)	RMC 12.2kbps	9400	1880	1.64	0.251	22.78	22.65	0.259	1.6			
Vertical(1)	RMC 12.2kbps	9262	1852.4	1.39	1.089	22.78	22.78	1.089	1.6			
Vertical(1)	RMC 12.2kbps	9400	1880	1.84	1.056	22.78	22.65	1.088	1.6			
Vertical(1)	RMC 12.2kbps	9538	1907.6	1.97	1.136	22.78	22.56	1.195	1.6			
Vertical(2)	RMC 12.2kbps	9400	1880	0.91	0.054	22.78	22.65	0.056	1.6			

- When the 1-g SAR is \leq 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 941225. The test separation for body is 0mm of all above table.
- •The worst mode is voice mode.

SAR MEASU	REMENT											
	perature (°C) : 21 ± 2			Relative	Humidity (%): 55						
	rature (°C) : 21 ± 2			Depth of Liquid (cm):>15								
Product: Tabl	et PC					,						
Test Mode: WCDMA Band V with QPSK modulation												
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Turn-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit W/kg			
SIM 1 Card												
Left Cheek	RMC 12.2kbps	4182	832.2	0.72	0.528	22.61	22.53	0.538	1.6			
Left Tilt	RMC 12.2kbps	4182	832.2	1.69	0.215	22.61	22.53	0.219	1.6			
Right Cheek	RMC 12.2kbps	4182	832.2	1.28	0.406	22.61	22.53	0.414	1.6			
Right Tilt	RMC 12.2kbps	4182	832.2	0.57	0.274	22.61	22.53	0.279	1.6			
Body back	RMC 12.2kbps	4132	826.4	0.69	0.935	22.61	22.61	0.935	1.6			
Body back	RMC 12.2kbps	4182	832.2	1.64	1.091	22.61	22.53	1.111	1.6			
Body back	RMC 12.2kbps	4233	846.6	1.39	1.140	22.61	22.54	1.159	1.6			
Body front	RMC 12.2kbps	4182	832.2	1.82	0.404	22.61	22.53	0.412	1.6			
Horizontal(1)	RMC 12.2kbps	4182	832.2	1.64	0.437	22.61	22.53	0.445	1.6			
Horizontal(2)	RMC 12.2kbps	4182	832.2	0.91	0.259	22.61	22.53	0.264	1.6			
Vertical(1)	RMC 12.2kbps	4132	826.4	0.81	0.991	22.61	22.61	0.991	1.6			
Vertical(1)	RMC 12.2kbps	4182	832.2	0.88	0.938	22.61	22.53	0.955	1.6			
Vertical(1)	RMC 12.2kbps	4233	846.6	0.64	1.008	22.61	22.54	1.024	1.6			
Vertical(2)	RMC 12.2kbps	4182	832.2	0.99	0.063	22.61	22.53	0.064	1.6			

- When the 1-g SAR is \leq 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 941225.
- •The test separation for body is 0mm of all above table.
- •The worst mode is voice mode.

Repeated SA	AR									
Ambient Temperature (°C): 21 ± 2					Humidity (%):	55				
Liquid Tempe	erature (°C) : 21 ± 2			Depth of	Liquid (cm):>1	15				
Product: Tablet PC										
Test Mode: V	Test Mode: WCDMA Band II&WCDMA Band V with QPSK modulation									
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	Once SAR (1g) (W/kg)	Twice SAR (1g) (W/kg)	Third SAR (1g) (W/kg)	Limit W/kg		
Body back	voice	9538	1907.6	0.36	1.125	1	1	1.6		
Body back	voice	4233	846.6	1.34	1.062	_		1.6		

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SAR MEASU	IREMENT										
Ambient Tem	perature (°C) : 21 ± 2			Relative Humidity (%): 55							
Liquid Tempe	erature (°C) : 21 ± 2			Depth of Liquid (cm):>15							
Product: Tab	let PC										
Test Mode:802.11b											
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Turn-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit W/kg		
SIM 1 Card	SIM 1 Card										
Left Cheek	DTS	6	2437	0.97	0.206	11.36	11.36	0.206	1.6		
Left Tilt	DTS	6	2437	1.35	0.169	11.36	11.36	0.169	1.6		
Right Cheek	DTS	6	2437	1.43	0.105	11.36	11.36	0.105	1.6		
Right Tilt	DTS	6	2437	1.59	0.069	11.36	11.36	0.069	1.6		
Body back	DTS	6	2437	0.81	0.255	11.36	11.36	0.255	1.6		
Body front	DTS	6	2437	0.71	0.166	11.36	11.36	0.166	1.6		
Horizontal(1)	DTS	6	2437	0.55	0.295	11.36	11.36	0.295	1.6		
Horizontal(2)	DTS	6	2437	0.94	0.076	11.36	11.36	0.076	1.6		
Vertical(1)	DTS	6	2437	0.77	0.305	11.36	11.36	0.305	1.6		
Vertical(2)	DTS	6	2437	1.62	0.033	11.36	11.36	0.033	1.6		

- According to KDB248227, SAR is not required for 802.11n HT20/HT40 channels when the maximum average output power is less than 1/4 dB higher than that measured on the corresponding 802.11a/b channels.
- All of above "DTS" means data transmitters.
- •The test separation of all above table for body is 0mm.

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SAR MEASU	REMENT										
Ambient Tem	perature (°C) : 21 ± 2			Relative Humidity (%): 55							
Liquid Tempe	erature (°C) : 21 ± 2			Depth of	Liquid (cn	n):>15					
Product: Tabl	et PC										
Test Mode: Hotspot											
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Turn-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit W/kg		
SIM 1 Card	SIM 1 Card										
Left Cheek	DTS	6	2437	0.92	0.116	11.36	11.36	0.116	1.6		
Left Tilt	DTS	6	2437	1.62	0.068	11.36	11.36	0.068	1.6		
Right Cheek	DTS	6	2437	1.84	0.062	11.36	11.36	0.062	1.6		
Right Tilt	DTS	6	2437	1.67	0.076	11.36	11.36	0.076	1.6		
Body back	DTS	6	2437	0.49	0.137	11.36	11.36	0.137	1.6		
Body front	DTS	6	2437	0.51	0.110	11.36	11.36	0.110	1.6		
Horizontal(1)	DTS	6	2437	0.37	0.072	11.36	11.36	0.072	1.6		
Horizontal(2)	DTS	6	2437	0.81	0.058	11.36	11.36	0.058	1.6		
Vertical(1)	DTS	6	2437	0.94	0.148	11.36	11.36	0.148	1.6		
Vertical(2)	DTS	6	2437	1.55	0.078	11.36	11.36	0.078	1.6		

[•]According to KDB248227, SAR is not required for 802.11n HT20/HT40 channels when the maximum average output power is less than 1/4 dB higher than that measured on the corresponding 802.11a/b channels.

[•]All of above "DTS" means data transmitters.

[•]The test separation of all above table for body is 10mm.

Simultaneous Multi-band Transmission Evaluation:

Application Simultaneous Transmission information:

Position	Simultaneous state
	1.WWAN(voice)+WLAN 2.4GHz band
Head	2.WWAN(voice)+Bluetooth
	3.WWAN(voice)+ HOTSPOT 2.4GHz band
	4. WWAN(voice)+WLAN 2.4GHz band
Body	5. WWAN(voice)+Bluetooth
-	6.WWAN(voice)+ HOTSPOT 2.4GHz band

NOTE:

- 1. WLAN and BT share the same antenna, and cannot transmit simultaneously.
- 2. Simultaneous with every transmitter must be the same test position.
- 3. Based upon KDB 447498 D01 v05, BT SAR is excluded as below table.
- 4. Based upon KDB 447498 D01 v05, for handsets the test separation distance is determined by the smallest distance between the outer surface of the device and the user; which is 0mm for head SAR AND 0mm for body-worn SAR.
- 5. If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.
- 6. For minimum test separation distance \leq 50mm,Bluetooth standalone SAR is excluded according to [(max. power of channel, including tune-up tolerance, mW)/ (min. test separation distance, mm) $\cdot [\sqrt{f(GHz)/x}] \leq 3.0$ for 1-g SAR and \leq 7.5 for 10-g extremity SAR
- 7. KDB 447498 / 4.3.2 (2) when standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:
 - a) (max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[\sqrt{f} (GHz) /x] W/kg for test separation distances \leq 50 mm; Where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR.
 - b) 0.4W/Kg for 1-g SAR and 1.0W/Kg for 10-g SAR, when the separation distance is >50mm.

			n Average wer mW	Antenna to user (mm)	SAR exclusion threshold (mW)	SAR testing required (Yes/No)	Head (0mm gap)	Body (5mm gap)
DT	Head	4.00	0.070	5	10	NO	0.028	0.028
ВТ	Body	-1.69	0.678	5	10	NO	W/kg	W/kg

Maximum test results (WWAN) with BT and WIFI/ HOTSPOT SAR:

BT: Head (0 cm gap):0.028 W/kg and Body (0cm gap):0.028 W/kg **WIFI:** Head (0 cm gap): 0.206 W/kg and Body (0cm gap):0.305 W/kg

HOTSPOT: Head (0 cm gap): 0.116W/kg and Body (1.0 cm gap): 0.148W/kg

WIFI

WIFI	Max. WWAN SAR	Max. WLAN SAR	SAR	Limit	SPLSR ≦0.04
Position	(W/Kg)	(W/Kg)	Summation	(W/kg)	Yes/No)
GSM850+WLAN 2		(**************************************	Cammation	(**************************************	(103/140)
Left Cheek	0.288	0.206	0.494	1.6	No
Left Tilt	0.149	0.169	0.318	1.6	No
Right Cheek	0.155	0.105	0.260	1.6	No
Right Tilt	0.170	0.069	0.239	1.6	No
Body back	0.900	0.255	1.155	1.6	No
Body front	0.436	0.166	0.602	1.6	No
Horizontal(1)	0.195	0.295	0.490	1.6	No
Horizontal(2)	0.086	0.076	0.162	1.6	No
Vertical(1)	0.797	0.305	1.102	1.6	No
Vertical(2)	0.072	0.033	0.105	1.6	No
PCS1900+WLAN					
Left Cheek	0.149	0.206	0.355	1.6	No
Left Tilt	0.106	0.169	0.275	1.6	No
Right Cheek	0.098	0.105	0.203	1.6	No
Right Tilt	0.068	0.069	0.137	1.6	No
Body back	0.651	0.255	0.906	1.6	No
Body front	0.305	0.166	0.471	1.6	No
Horizontal(1)	0.320	0.295	0.615	1.6	No
Horizontal(2)	0.019	0.076	0.095	1.6	No
Vertical(1)	0.697	0.305	1.002	1.6	No
Vertical(2)	0.019	0.033	0.052	1.6	No
WCDMA Band II+				_	
Left Cheek	0.568	0.206	0.774	1.6	No
Left Tilt	0.118	0.169	0.287	1.6	No
Right Cheek	0.500	0.105	0.605	1.6	No
Right Tilt	0.117	0.069	0.186	1.6	No
Body back	1.250	0.255	1.505	1.6	No
Body front	0.529	0.166	0.695	1.6	No
Horizontal(1)	0.591	0.295	0.886	1.6	No
Horizontal(2)	0.259	0.076	0.335	1.6	No
Vertical(1)	1.195	0.305	1.500	1.6	No
Vertical(2)	0.056	0.033	0.089	1.6	No
WCDMA Band V+	WLAN 2.4G-DTS				
Left Cheek	0.538	0.206	0.744	1.6	No
Left Tilt	0.219	0.169	0.388	1.6	No
Right Cheek	0.414	0.105	0.519	1.6	No
Right Tilt	0.279	0.069	0.348	1.6	No
Body back	1.159	0.255	1.414	1.6	No
Body front	0.412	0.166	0.578	1.6	No
Horizontal(1)	0.445	0.295	0.740	1.6	No
Horizontal(2)	0.264	0.076	0.340	1.6	No
Vertical(1)	1.024	0.305	1.329	1.6	No
Vertical(2)	0.064	0.033	0.097	1.6	No

 $[\]cdot$ According to KDB 447498 D01 General RF Exposure Guidance v05, when the simultaneous transmission SAR is less than 1.6 W/Kg, SPLSR assessment is not required.

[·]SPLSR mean is "The SAR to Peak Location Separation Ratio "

Hotspot

Hotspot					
Position	Max. WWAN SAR (W/Kg)	Max. Hotspot SAR (W/Kg)	SAR Summation	Limit (W/kg)	SPLSR ≦0.04 (Yes/No)
GSM850+Hotspot					
Left Cheek	0.288	0.116	0.404	1.6	No
Left Tilt	0.149	0.068	0.217	1.6	No
Right Cheek	0.155	0.062	0.217	1.6	No
Right Tilt	0.170	0.076	0.246	1.6	No
Body back	0.900	0.137	1.037	1.6	No
Body front	0.436	0.110	0.546	1.6	No
Horizontal(1)	0.195	0.072	0.267	1.6	No
Horizontal(2)	0.086	0.058	0.144	1.6	No
Vertical(1)	0.797	0.148	0.945	1.6	No
Vertical(2)	0.072	0.078	0.150	1.6	No
PCS1900+Hotspo	ot 2.4G-DTS				
Left Cheek	0.149	0.116	0.265	1.6	No
Left Tilt	0.106	0.068	0.174	1.6	No
Right Cheek	0.098	0.062	0.160	1.6	No
Right Tilt	0.068	0.076	0.144	1.6	No
Body back	0.651	0.137	0.788	1.6	No
Body front	0.305	0.110	0.415	1.6	No
Horizontal(1)	0.320	0.072	0.392	1.6	No
Horizontal(2)	0.019	0.058	0.077	1.6	No
Vertical(1)	0.697	0.148	0.845	1.6	No
Vertical(2)	0.019	0.078	0.097	1.6	No
WCDMA Band II+	Hotspot 2.4G-DTS				
Left Cheek	0.568	0.116	0.684	1.6	No
Left Tilt	0.118	0.068	0.186	1.6	No
Right Cheek	0.500	0.062	0.562	1.6	No
Right Tilt	0.117	0.076	0.193	1.6	No
Body back	1.250	0.137	1.387	1.6	No
Body front	0.529	0.110	0.639	1.6	No
Horizontal(1)	0.591	0.072	0.663	1.6	No
Horizontal(2)	0.259	0.058	0.317	1.6	No
Vertical(1)	1.195	0.148	1.343	1.6	No
Vertical(2)	0.056	0.078	0.134	1.6	No
WCDMA Band V+	Hotspot 2.4G-DTS				
Left Cheek	0.538	0.116	0.654	1.6	No
Left Tilt	0.219	0.068	0.287	1.6	No
Right Cheek	0.414	0.062	0.476	1.6	No
Right Tilt	0.279	0.076	0.355	1.6	No
Body back	1.159	0.137	1.296	1.6	No
Body front	0.412	0.110	0.522	1.6	No
Horizontal(1)	0.445	0.072	0.517	1.6	No
Horizontal(2)	0.264	0.058	0.322	1.6	No
Vertical(1)	1.024	0.148	1.172	1.6	No
Vertical(2)	0.064	0.078	0.142	1.6	No
	3.00∓	0.57.0	V.1∃ ∠	1.0	140

- According to KDB 447498 D01 General RF Exposure Guidance v05, when the simultaneous transmission SAR is less than 1.6 W/Kg, SPLSR assessment is not required.
- SPLSR mean is "The SAR to Peak Location Separation Ratio "

BT

BT	Max. WWAN SAR	Estimated SAR	SAR	Limit	SPLSR ≦0.04
Position	(W/Kg)	(W/Kg)	Summation	(W/kg)	(Yes/No)
GSM850+Bluetoo	th-DSS				
Left Cheek	0.288	0.028	0.316	1.6	No
Left Tilt	0.149	0.028	0.177	1.6	No
Right Cheek	0.155	0.028	0.183	1.6	No
Right Tilt	0.170	0.028	0.198	1.6	No
Body back	0.900	0.028	0.928	1.6	No
Body front	0.436	0.028	0.464	1.6	No
Horizontal(1)	0.195	0.028	0.223	1.6	No
Horizontal(2)	0.086	0.028	0.114	1.6	No
Vertical(1)	0.797	0.028	0.825	1.6	No
Vertical(2)	0.072	0.028	0.100	1.6	No
PCS1900+ Blueto					
Left Cheek	0.149	0.028	0.177	1.6	No
Left Tilt	0.106	0.028	0.134	1.6	No
Right Cheek	0.098	0.028	0.126	1.6	No
Right Tilt	0.068	0.028	0.096	1.6	No
Body back	0.651	0.028	0.679	1.6	No
Body front	0.305	0.028	0.333	1.6	No
Horizontal(1)	0.320	0.028	0.348	1.6	No
Horizontal(2)	0.019	0.028	0.047	1.6	No
Vertical(1)	0.697	0.028	0.725	1.6	No
Vertical(2)	0.019	0.028	0.047	1.6	No
WCDMA Band II+	Bluetooth-DSS				
Left Cheek	0.568	0.028	0.596	1.6	No
Left Tilt	0.118	0.028	0.146	1.6	No
Right Cheek	0.500	0.028	0.528	1.6	No
Right Tilt	0.117	0.028	0.145	1.6	No
Body back	1.250	0.028	1.278	1.6	No
Body front	0.529	0.028	0.557	1.6	No
Horizontal(1)	0.591	0.028	0.619	1.6	No
Horizontal(2)	0.259	0.028	0.287	1.6	No
Vertical(1)	1.195	0.028	1.223	1.6	No
Vertical(2)	0.056	0.028	0.084	1.6	No
WCDMA Band V+					
Left Cheek	0.538	0.028	0.566	1.6	No
Left Tilt	0.219	0.028	0.247	1.6	No
Right Cheek	0.414	0.028	0.442	1.6	No
Right Tilt	0.279	0.028	0.307	1.6	No
Body back	1.159	0.028	1.187	1.6	No
Body front	0.412	0.028	0.440	1.6	No
Horizontal(1)	0.445	0.028	0.473	1.6	No
Horizontal(2)	0.264	0.028	0.292	1.6	No
Vertical(1)	1.024	0.028	1.052	1.6	No
Vertical(2)	0.064	0.028	0.092	1.6	No

- According to KDB 447498 D01 General RF Exposure Guidance v05, when the Sum of the simultaneous transmission SAR is lesser than 1.6 W/Kg, SPLSR assessment is not required.
- SPLSR mean is "The SAR to Peak Location Ratio " .

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APPENDIX A. SAR SYSTEM VALIDATION DATA

Test Laboratory: AGC Lab Date: Jan.21,2014

System Check Head 835 MHz

DUT: Dipole 900 MHz Type: SID 900

Communication System CW; Communication System Band: D835 (832.2 MHz); Duty Cycle: 1:1; Conv.F=5.30 Frequency: 835 MHz; Medium parameters used: f = 835 MHz; $\sigma = 0.91$ mho/m; $\epsilon r = 41.55$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section; Input Power=10dBm Ambient temperature ($^{\circ}$ C): 21, Liquid temperature ($^{\circ}$ C): 21

SATIMO Configuration:

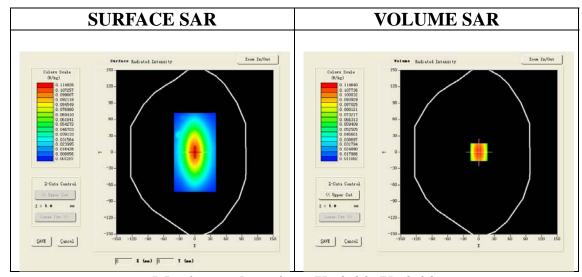
· Probe: EP165; Calibrated: 01/31/2013

· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: Flat Phantom; Type: Elliptical Phantom

Measurement SW: OpenSAR V4_02_01

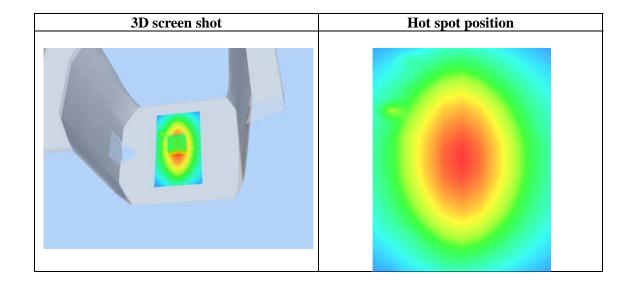
Configuration/System Check GSM 835 Head/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/System Check GSM 835 Head/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm



Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	0.067415
SAR 1g (W/Kg)	0.104132

Z (mm)	0.00	4.00	9.00	14.00	19.00				
SAR (W/Kg)	0.0000	0.1142	0.0728	0.0465	0.0308				
SAR, Z Axis Scan $(X = 0, Y = 0)$									
C). 11 –								
O	. 10 -	\longrightarrow			-				
4/₩). 08 –								
SAR	0. 06 -								
O	0.04-				-				
O	0.02 - 0.0 0.5 5			5 20.0 22.5 25	s.' o				
			Z (mm)						



Date: Jan.21,2014

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Test Laboratory: AGC Lab System Check Head 1900MHz

DUT: Dipole 1900 MHz; Type: SID 1900

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1; Conv.F=4.72 Frequency: 1900 MHz; Medium parameters used: f = 1900 MHz; $\sigma = 1.35 \text{ mho/m}$; $\epsilon = 40.81$; $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Flat Section; Input Power=10dBm Ambient temperature (°C): 21, Liquid temperature (°C): 21

SATIMO Configuration:

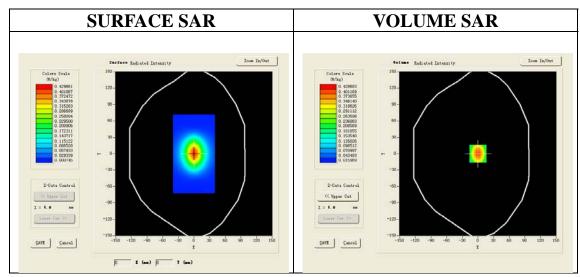
• Probe: EP165; Calibrated: 01/31/2013

· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: Flat Phantom; Type: Elliptical Phantom

· Measurement SW: OpenSAR V4_02_01

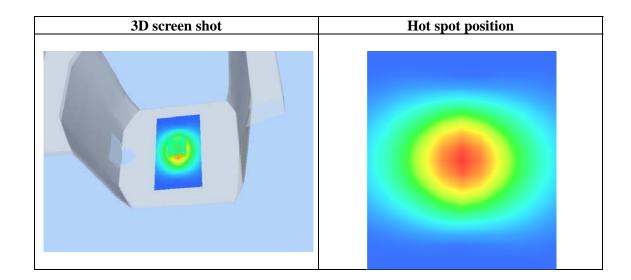
Configuration/System Check PCS1900 Head/Area Scan: Measurement grid: dx=8mm,dy=8mm Configuration/System Check PCS1900 Head/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm



Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	0.206242
SAR 1g (W/Kg)	0.398894

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.4271	0.2456	0.1383	0.0861
	SAR, 2	Axis Sca	n (X = 0,	¥ = 0)	
0). 43-				
0). 35 –				
⊙o). 30 -	+			-
). 25 -	++	+++		-
¥ 0). 20 -		+		-
). 15 -	+++			-
0). 10 -				-
0	0.05- 0.0 2.5 5	7 5 10 0	12 5 15 0 17	F 20 0 22 F 25	
	0.0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0 Z (mm)				



Date: Jan.21,2014

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Test Laboratory: AGC Lab System Check Head 2450 MHz

DUT: Dipole 2450 MHz Type: SID 2450

Communication System: CW; Communication System Band: D2450 (2450.0 MHz); Duty Cycle: 1:1; Conv.F=4.19 Frequency: 2450 MHz; Medium parameters used: f = 2450 MHz; $\sigma = 1.81 \text{ mho/m}$; $\epsilon r = 39.56$; $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Flat Section; Input Power=10dBm Ambient temperature ($^{\circ}$): 21, Liquid temperature ($^{\circ}$): 21

SATIMO Configuration:

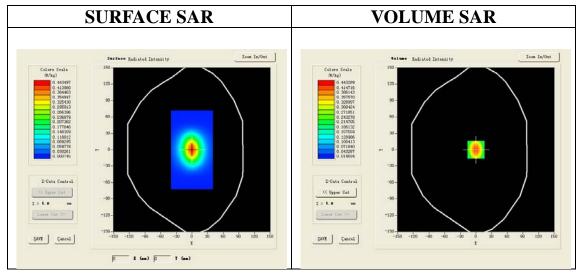
• Probe: EP165; Calibrated: 01/31/2013

Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: Flat Phantom; Type: Elliptical Phantom

· Measurement SW: OpenSAR V4 02 01

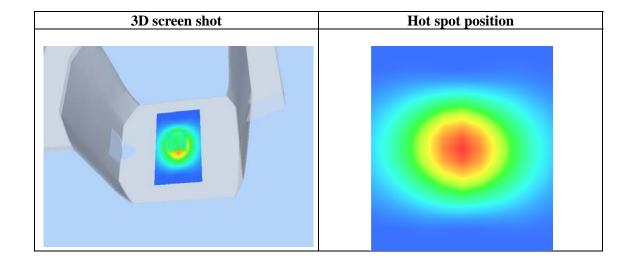
Configuration/System Check 2450 MHz Head/Area Scan: Measurement grid: dx=8mm,dy=8mm Configuration/System Check 2450 MHz Head/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm



Maximum location: X=0.00, Y=0.00

	,
SAR 10g (W/Kg)	0.235863
SAR 1g (W/Kg)	0.495613

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.4437	0.2463	0.1326	0.0887
		Z Axis Sca	n (X = 0,	Y = 0)	ı
	0. 44 -				
	0. 40 -				
C). 35 -	+			-
⊚ 0). 30 -	+			
7,), 30 -				
	0.20				
	0. 15 -				
C	0.10-				- 1
C	0.05-	+			.
	0.0 2.5 5	5.0 7.5 10.0	12.5 15.0 17.	5 20.0 22.5 25	5.0
Z (mm)					



APPENDIX B. SAR MEASUREMENT DATA

Test Laboratory: AGC Lab Date: Jan.21,2014

GSM 835 Mid-Touch-Left <SIM 1> DUT: Tablet PC; Type: Z708

Communication System: Generic GSM; Communication System Band: GSM 835; Duty Cycle: 1:8.3; Conv.F=5.30 Frequency: 836.6 MHz; Medium parameters used: f = 835 MHz; $\sigma = 0.91$ mho/m; $\epsilon = 41.55$; $\rho = 1000$ kg/m³;

Phantom section: Left Section

Ambient temperature ($^{\circ}$ C): 21.0, Liquid temperature ($^{\circ}$ C): 21.0

SATIMO Configuration:

• Probe: EP165; Calibrated: 01/31/2013

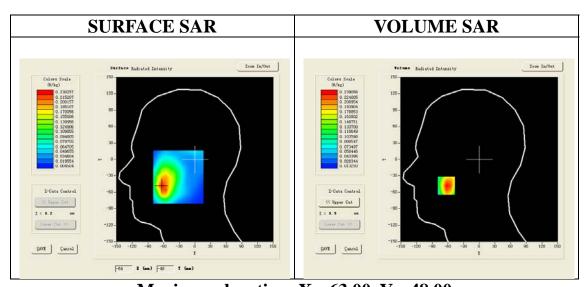
Sensor-Surface: 4mm (Mechanical Surface Detection)

Phantom: Flat Phantom; Type: Elliptical Phantom

Measurement SW: OpenSAR V4_02_01

Configuration/GSM 835 Mid-Touch-Left/Area Scan (6x8x1): Measurement grid: dx=8mm, dy=8mm Configuration/GSM 835 Mid-Touch-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

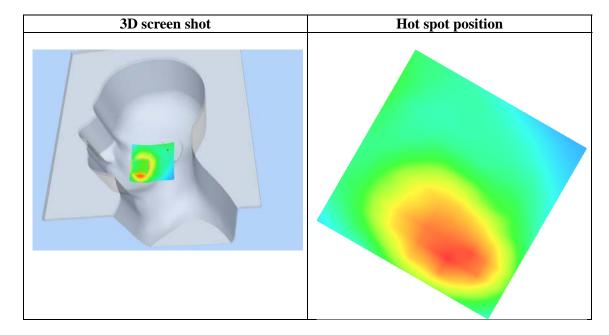
Area Scan	sam_direct_droit2_surf8mm.txt		
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast		
Phantom	Left head		
Device Position	Cheek		
Band	GSM 835		
Channels	Middle		
Signal	TDMA (Crest factor: 8.0)		



Maximum location: X=-63.00, Y=-48.00

SAR 10g (W/Kg)	0.137516
SAR 1g (W/Kg)	0.228524

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.2391	0.1447	0.0937	0.0683
	SAR, Z A	Axis Scan	(X = -63,	Y = -48)	
C). 239 -				
c	0. 200 -				
⊋°C). 175 –	+ $+$ $+$			-
(€)). 175 –). 150 –	+			-
5 0). 125 -	+	$\overline{}$		-
). 100 -				_
0	0. 075 -				
c	0. 053 -				
	0.0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0				
	Z (mm)				



Date: Jan.21,2014

Test Laboratory: AGC Lab GSM 835 Mid-Tilt-Left <SIM 1> DUT: Tablet PC; Type: Z708

Communication System: Generic GSM; Communication System Band: GSM 835; Duty Cycle: 1:8.3; Conv.F=5.30; Frequency: 836.6 MHz; Medium parameters used: f = 835 MHz; $\sigma = 0.91$ mho/m; $\epsilon r = 41.55$; $\rho = 1000$ kg/m³;

Phantom section: Left Section

Ambient temperature ($^{\circ}$ C): 21.0, Liquid temperature($^{\circ}$ C): 21.0

SATIMO Configuration:

· Probe: EP165; Calibrated: 01/31/2013

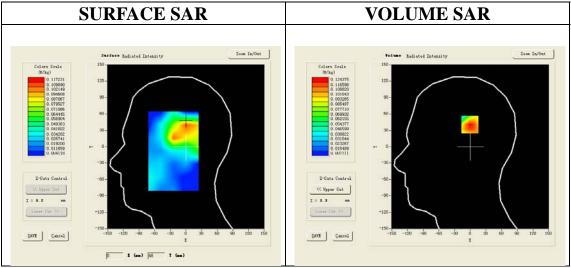
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: Flat Phantom; Type: Elliptical Phantom

· Measurement SW: OpenSAR V4_02_01

Configuration/GSM 835 Mid-Tilt-Left/Area Scan (6x8x1): Measurement grid: dx=8mm, dy=8mm Configuration/GSM 835 Mid-Tilt-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm,dz=5mm;

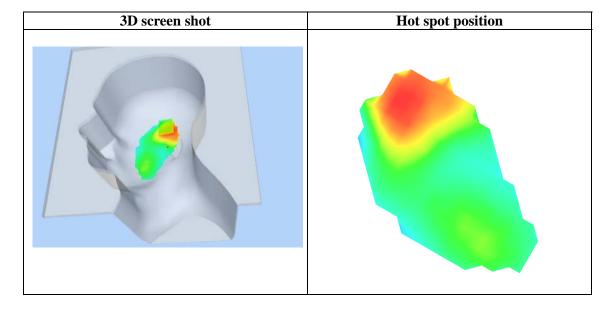
Area Scan	sam_direct_droit2_surf8mm.txt		
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast		
Phantom	Left head		
Device Position	Tilt		
Band	GSM 835		
Channels	Middle		
Signal	TDMA (Crest factor: 8.0)		



Maximum location: X=1.00, Y=45.00

SAR 10g (W/Kg)	0.084271
SAR 1g (W/Kg)	0.117625

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1244	0.1000	0.0778	0.0580
(#/kg)	1	Axis Scar		1	0.0580
C). 06 –). 05 –). 04 –		12.5 15.0 17. Z (mm)	5 20.0 22.5 25	5.0



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Test Laboratory: AGC Lab

Date: Jan.21,2014

GSM 835 Mid-Touch-Right <SIM 1> DUT: Tablet PC; Type: Z708

Communication System: Generic GSM; Communication System Band: GSM 835; Duty Cycle: 1:8.3; Conv.F=5.30; Frequency: 836.6 MHz; Medium parameters used: f = 835 MHz; $\sigma = 0.91$ mho/m; $\epsilon r = 41.55$; $\rho = 1000$ kg/m³;

Phantom section: Right Section

Ambient temperature ($^{\circ}$ C): 21.0, Liquid temperature ($^{\circ}$ C): 21.0

SATIMO Configuration:

· Probe: EP165; Calibrated: 01/31/2013

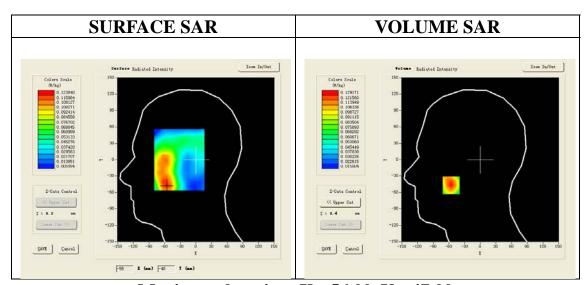
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: Flat Phantom; Type: Elliptical Phantom

· Measurement SW: OpenSAR V4_02_01

Configuration/GSM 835 Mid-Touch-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/GSM 835 Mid-Touch-Right/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

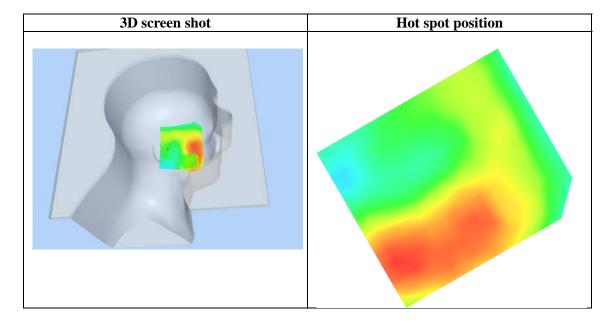
Area Scan	sam_direct_droit2_surf8mm.txt			
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast			
Phantom	Right head			
Device Position	Cheek			
Band	GSM 835			
Channels	Middle			
Signal	TDMA (Crest factor: 8.0)			



Maximum location: X=-56.00, Y=-47.00

SAR 10g (W/Kg)	0.081975
SAR 1g (W/Kg)	0.123205

Z (mm)	0.00	4.00	9.00	14.00	19.00	
SAR (W/Kg)	0.0000	0.1292	0.0946	0.0688	0.0496	
	SAR, Z Axis Scan $(X = -56, Y = -47)$					
). 13 -). 12 -					
	7.12-					
(#/kg)). 10 -					
	1. 08 -	++	$\downarrow \downarrow \downarrow \downarrow$			
SAR						
	0.06					
C	0.0 2.5 5	5.0 7.5 10.0	12.5 15.0 17.	5 20.0 22.5 25	5.0	
	Z (mm)					



Date: Jan.21,2014

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Test Laboratory: AGC Lab GSM 835 Mid-Tilt-Right <SIM 1> DUT: Tablet PC; Type: Z708

Communication System: Generic GSM; Communication System Band: GSM 835; Duty Cycle: 1:8.3; Conv.F=5.30; Frequency: 836.6 MHz; Medium parameters used: f = 835 MHz; $\sigma = 0.91$ mho/m; $\epsilon r = 41.55$; $\rho = 1000$ kg/m³;

Phantom section: Right Section

Ambient temperature ($^{\circ}$ C): 21.0, Liquid temperature ($^{\circ}$ C): 21.0

SATIMO Configuration:

· Probe: EP165; Calibrated: 01/31/2013

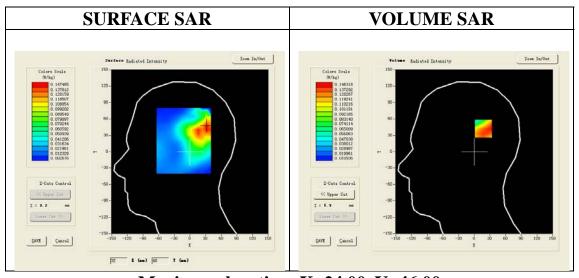
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: Flat Phantom; Type: Elliptical Phantom

· Measurement SW: OpenSAR V4_02_01

Configuration/GSM 835 Mid-Tilt-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/GSM 835 Mid-Tilt-Right/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

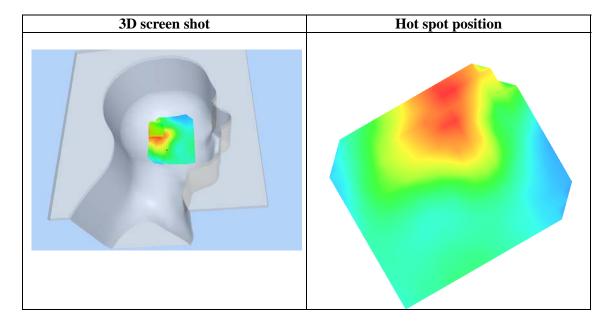
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Right head
Device Position	Tilt
Band	GSM 835
Channels	Middle
Signal	TDMA (Crest factor: 8.0)



Maximum location: X=24.00, Y=46.00

SAR 10g (W/Kg)	0.097124
SAR 1g (W/Kg)	0.135382

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1333	0.1019	0.0775	0.0585
	SAR, Z	Axis Scan	(X = 24,	Y = 46)	
0). 13-				
o). 12-	\longrightarrow			-
(#/kg)). 10 –				
). 08 –				
c). 06 -		++		-
C	0.04 -		12.5 15.0 17.	5 20.0 22.5 25	5.0
	Z (mm)				



Date: Jan.21,2014

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Test Laboratory: AGC Lab GSM 835 Mid-Touch-Left <SIM 2> DUT: Tablet PC; Type: Z708

Communication System: Generic GSM; Communication System Band: GSM 835; Duty Cycle: 1:8.3; Conv.F=5.30 Frequency: 836.6 MHz; Medium parameters used: f = 835 MHz; $\sigma = 0.91$ mho/m; $\epsilon r = 41.55$; $\rho = 1000$ kg/m³;

Phantom section: Left Section

Ambient temperature ($^{\circ}$ C): 21.0, Liquid temperature ($^{\circ}$ C): 21.0

SATIMO Configuration:

· Probe: EP165; Calibrated: 01/31/2013

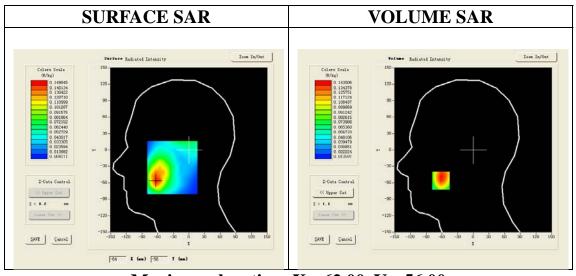
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: Flat Phantom; Type: Elliptical Phantom

· Measurement SW: OpenSAR V4_02_01

Configuration/GSM 835 Mid-Touch-Left/Area Scan (6x8x1): Measurement grid: dx=8mm, dy=8mm Configuration/GSM 835 Mid-Touch-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

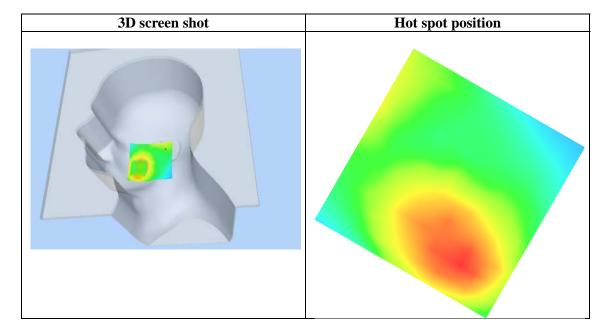
Area Scan	sam_direct_droit2_surf8mm.txt	
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast	
Phantom	Left head	
Device Position	Cheek	
Band	GSM 835	
Channels	Middle	
Signal	TDMA (Crest factor: 8.0)	



Maximum location: X=-62.00, Y=-56.00

SAR 10g (W/Kg)	0.093254	
SAR 1g (W/Kg)	0.136715	

Z (mm)	0.00	4.00	9.00	14.00	19.00	
SAR (W/Kg)	0.0000	0.1409	0.1016	0.0729	0.0521	
	SAR, Z Axis Scan $(X = -62, Y = -56)$					
9). 14-				•	
C	0. 12 -	\longrightarrow				
//kg)	0. 10 -	+			-	
SAR). 08 –					
). 06 -				-	
c	0.0 2.5	5.0 7.5 10.0	12.5 15.0 17.	5 20.0 22.5 25	5.0	
	Z (mm)					



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Test Laboratory: AGC Lab

Date: Jan.21,2014

GSM 835 Mid- Body- Back <SIM 1> DUT: Tablet PC; Type: Z708

Communication System: Generic GSM; Communication System Band: GSM 835; Duty Cycle: 1:8.3; Conv.F=5.46; Frequency: 836.6 MHz; Medium parameters used: f = 835 MHz; $\sigma = 0.94$ mho/m; $\epsilon r = 54.13$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

Ambient temperature ($^{\circ}$ C): 21.0, Liquid temperature ($^{\circ}$ C): 21.0

SATIMO Configuration:

· Probe: EP165; Calibrated: 01/31/2013

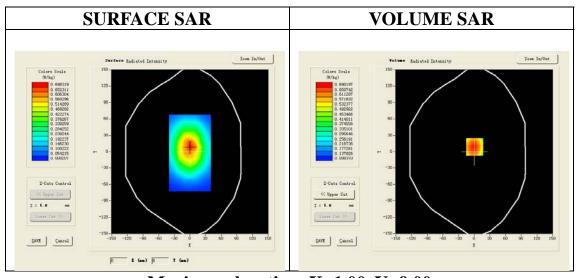
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: Flat Phantom; Type: Elliptical Phantom

· Measurement SW: OpenSAR V4_02_01

Configuration/GSM 835 Mid-Body-Back/Area Scan (6x8x1): Measurement grid: dx=8mm, dy=8mm Configuration/GSM 835 Mid-Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

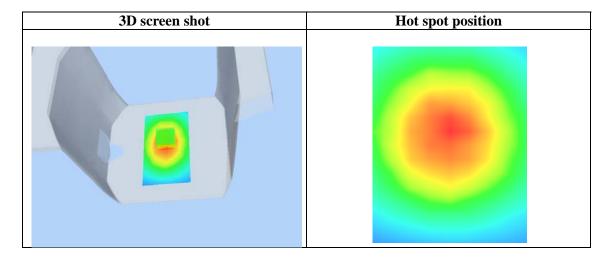
Area Scan	surf_sam_plan.txt	
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast	
Phantom	Validation plane	
Device Position	Body Back	
Band	GSM 835	
Channels	Middle	
Signal	TDMA (Crest factor: 8.0)	



Maximum location: X=1.00, Y=9.00

SAR 10g (W/Kg)	0.463751
SAR 1g (W/Kg)	0.714628

Z (mm)	0.00	4.00	9.00	14.00	19.00	
SAR (W/Kg)	0.0000	0.6902	0.4431	0.2945	0.2129	
	SAR, Z Axis Scan (X = 1, Y = 9)					
0	1.7-					
0	. 6 -	\backslash				
	.5-					
SAR (W/kg)	. 4 -					
SAR	1.3-					
0	0.0 2.5 5	.0 7.5 10.0	12.5 15.0 17.	5 20.0 22.5 25	5.0	
	Z (mm)					



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Test Laboratory: AGC Lab Date: Jan.21,2014

GSM 835 Mid-Body-Front (MS) <SIM 1>

DUT: Tablet PC; Type: Z708

Communication System: Generic GSM; Communication System Band: GSM 835; Duty Cycle: 1:8.3; Conv.F=5.46; Frequency: 836.6 MHz; Medium parameters used: f = 835 MHz; $\sigma = 0.94$ mho/m; $\epsilon r = 54.13$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

Ambient temperature ($^{\circ}$ C): 21.0, Liquid temperature ($^{\circ}$ C): 21.0

SATIMO Configuration:

· Probe: EP165; Calibrated: 01/31/2013

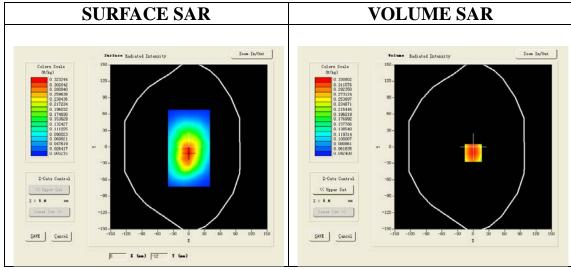
Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: Flat Phantom; Type: Elliptical Phantom

· Measurement SW: OpenSAR V4_02_01

Configuration/GSM 835 Mid-Body- Front /Area Scan (6x8x1): Measurement grid: dx=8mm, dy=8mm Configuration/GSM 835 Mid-Body- Front Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

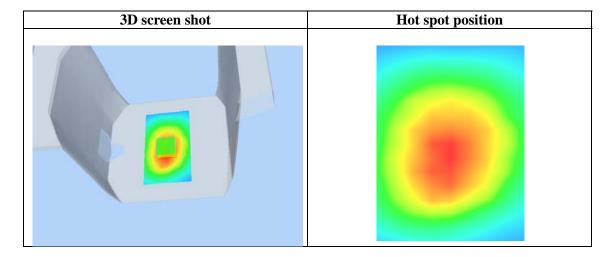
Area Scan	surf_sam_plan.txt	
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast	
Phantom	Validation plane	
Device Position	Body Front	
Band	GSM 835	
Channels	Middle	
Signal	TDMA (Crest factor: 8.0)	



Maximum location: X=0.00, Y=-11.00

SAR 10g (W/Kg)	0.227512	
SAR 1g (W/Kg)	0.345673	

Z (mm)	0.00	4.00	9.00	14.00	19.00	
SAR (W/Kg)	0.0000	0.3351	0.2137	0.1414	0.0991	
	SAR, Z Axis Scan ($X = 0$, $Y = -11$)					
). 33 –). 30 –					
,kg)). 25 -					
≥ 0 4). 20 -				-	
SAR). 15-				-	
). 10-		+	\downarrow	_	
C	0.07- 0.0 2.5 5		12.5 15.0 17.	5 20.0 22.5 25	5.0	
	Z (mm)					



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Test Laboratory: AGC Lab Date: Jan.21,2014

GSM 835 Mid-Horizontal near antenna

DUT: Tablet PC; Type: Z708

Communication System: Generic GSM; Communication System Band: GSM 835; Duty Cycle: 1:8.3; Conv.F=5.46; Frequency: 836.6 MHz; Medium parameters used: f = 835 MHz; $\sigma = 0.94$ mho/m; $\epsilon r = 54.13$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

Ambient temperature (°C):21, Liquid temperature (°C):21

SATIMO Configuration:

· Probe: EP165; Calibrated: 01/31/2013

· Sensor-Surface: 4mm (Mechanical Surface Detection)

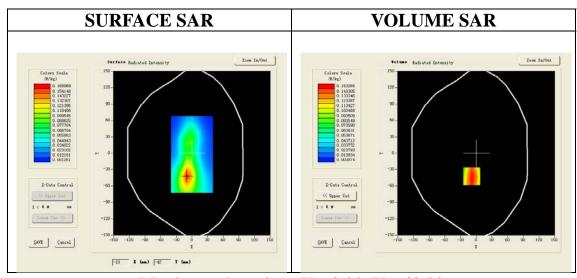
· Phantom: Flat Phantom; Type: Elliptical Phantom

Measurement SW: OpenSAR V4_02_01

Configuration/GSM 835 Mid-Horizontal near antenna /Area Scan (6x8x1): Measurement grid: dx=8mm, dy=8mm

Configuration/GSM 835 Mid-Horizontal near antenna /Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

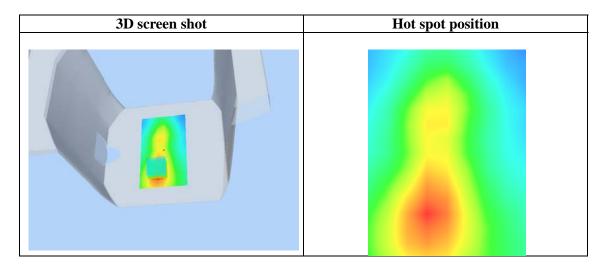
Area Scan	surf_sam_plan.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Validation plane
Device Position	Horizontal
Band	GSM 835
Channels	Middle
Signal	TDMA (Crest factor: 8.0)



Maximum location: X=-9.00, Y=-42.00

SAR 10g (W/Kg)	0.085175
SAR 1g (W/Kg)	0.154534

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1580	0.0759	0.0340	0.0171
	SAR, Z	Axis Scan	(X = -9,	Y = -42)	
0	. 15 –		1 1 1	1 1	
0	0.14	\ 			-
0). 12 -	\longrightarrow			
	. 10 -	$+ \lambda +$			
	0. 10 -	\perp			
	0.06	++	+		_
O). 04 –				-
O	0.01 - 0.0 2.5 5	5.0 7.5 10.0	12.5 15.0 17.	5 20.0 22.5 25	5.0
			Z (mm)		



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Test Laboratory: AGC Lab Date: Jan.21,2014

GSM 835 Mid-Horizontal away from antenna

DUT: Tablet PC; Type: Z708

Communication System: Generic GSM; Communication System Band: GSM 835; Duty Cycle: 1:8.3; Conv.F=5.46; Frequency: 836.6 MHz; Medium parameters used: f = 835 MHz; $\sigma = 0.94$ mho/m; $\epsilon r = 54.13$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

Ambient temperature (°C):21, Liquid temperature (°C):21

SATIMO Configuration:

· Probe: EP165; Calibrated: 01/31/2013

· Sensor-Surface: 4mm (Mechanical Surface Detection)

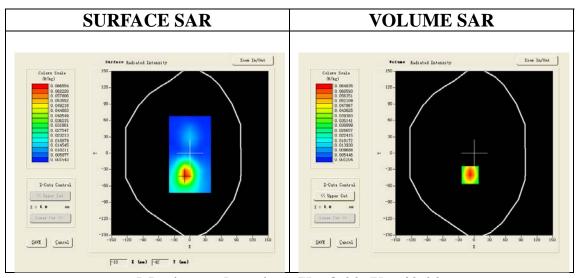
· Phantom: Flat Phantom; Type: Elliptical Phantom

Measurement SW: OpenSAR V4_02_01

Configuration/GSM 835 Mid-Horizontal away from antenna /Area Scan (6x8x1): Measurement grid: dx=8mm, dy=8mm

Configuration/GSM 835 Mid -Horizontal away from antenna /Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

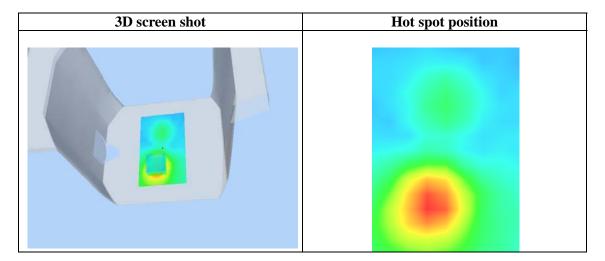
Area Scan	surf_sam_plan.txt	
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast	
Phantom	Validation plane	
Device Position	Horizontal	
Band	GSM 835	
Channels	Middle	
Signal	TDMA (Crest factor: 8.0)	



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

SAR 10g (W/Kg)	0.035349
SAR 1g (W/Kg)	0.067537

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0659	0.0273	0.0109	0.0064
	SAR, Z	Axis Scan	(X = -8,	Y = -40)	
C	0.06 -				
0). 05 -	\longrightarrow			
1/kg)	0. 04 –	$+ \lambda +$			-
SAR (9	1.04 -	++			-
۱ '	1. 02 -				
	0.00-				
	0.0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0 Z (mm)				



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Test Laboratory: AGC Lab Date: Jan.21,2014

GSM 835 Mid-Vertical near antenna DUT: Tablet PC; Type: Z708

Communication System: Generic GSM; Communication System Band: GSM 835; Duty Cycle: 1:8.3; Conv.F=5.46; Frequency: 836.6 MHz; Medium parameters used: f = 835 MHz; $\sigma = 0.94$ mho/m; $\epsilon r = 54.13$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

Ambient temperature ($^{\circ}$ C):21, Liquid temperature ($^{\circ}$ C):21

SATIMO Configuration:

· Probe: EP165; Calibrated: 01/31/2013

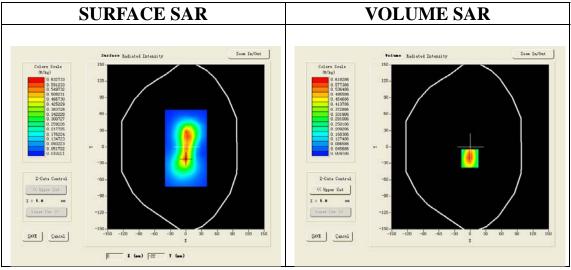
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: Flat Phantom; Type: Elliptical Phantom

Measurement SW: OpenSAR V4_02_01

Configuration/GSM 835 Mid-Vertical near antenna /Area Scan (6x8x1): Measurement grid: dx=8mm, dy=8mm Configuration/GSM 835 Mid -Vertical near antenna /Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

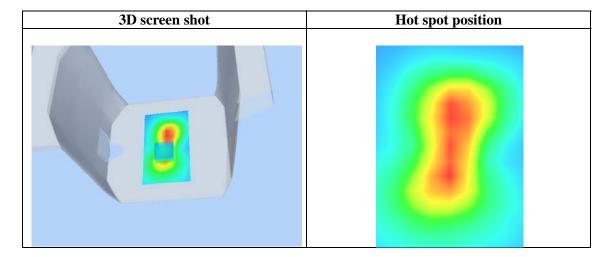
Area Scan	surf_sam_plan.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Validation plane
Device Position	Vertical
Band	GSM 835
Channels	Middle
Signal	TDMA (Crest factor: 8.0)



Maximum location: X=-1.00, Y=-21.00

SAR 10g (W/Kg)	0.293752	
SAR 1g (W/Kg)	0.632564	

Z (mm)	0.00	4.00	9.00	14.00	19.00	
SAR (W/Kg)	0.0000	0.6151	0.2438	0.0911	0.0419	
	SAR, Z Axis Scan (X = -1, Y = -21)					
C	0.6-					
). 5 -				-	
(/kg)). 4 -				-	
SAR (#/kg)). 3 -				-	
	0.1-					
	0.0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0					
	Z (mm)					



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Test Laboratory: AGC Lab Date: Jan.21,2014

GSM 835 Mid-Vertical away from antenna

DUT: Tablet PC; Type: Z708

Communication System: Generic GSM; Communication System Band: GSM 835; Duty Cycle: 1:8.3; Conv.F=5.46; Frequency: 836.6 MHz; Medium parameters used: f = 835 MHz; $\sigma = 0.94$ mho/m; $\epsilon r = 54.13$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

Ambient temperature (°C):21, Liquid temperature (°C):21

SATIMO Configuration:

· Probe: EP165; Calibrated: 01/31/2013

Sensor-Surface: 4mm (Mechanical Surface Detection)

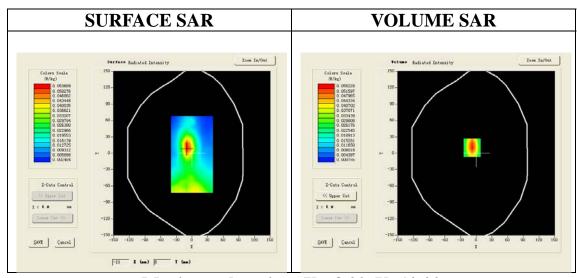
· Phantom: Flat Phantom; Type: Elliptical Phantom

Measurement SW: OpenSAR V4_02_01

Configuration/GSM 835 Mid-Vertical away from antenna /Area Scan (6x8x1): Measurement grid: dx=8mm, dy=8mm

Configuration/GSM 835 Mid-Vertical away from antenna /Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

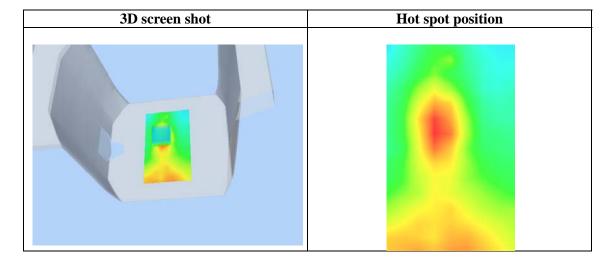
Area Scan	surf_sam_plan.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Validation plane
Device Position	Vertical
Band	GSM 835
Channels	Middle
Signal	TDMA (Crest factor: 8.0)



Maximum location: X=-8.00, Y=10.00

SAR 10g (W/Kg)	0.023128
SAR 1g (W/Kg)	0.056725

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0548	0.0294	0.0101	0.0047
	SAR, Z	Axis Scan	(X = -8,	Y = 10)	
). 06 –). 05 –				
), 04 –	$\Lambda \sqcup \bot$			
, (%) (%),kg)	0. 03 -				
	0. 02 -				
	0. 01 -				
). 00 -				
0.0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0 Z (mm)					



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Test Laboratory: AGC Lab

Date: Jan.21,2014

PCS 1900 Mid-Touch-Left <SIM 1> DUT: Tablet PC; Type: Z708

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=4.72; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; $\sigma = 1.35$ mho/m; $\epsilon = 40.81$; $\rho = 1000$ kg/m³;

Phantom section: Left Section

Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

SATIMO Configuration:

· Probe: EP165; Calibrated: 01/31/2013

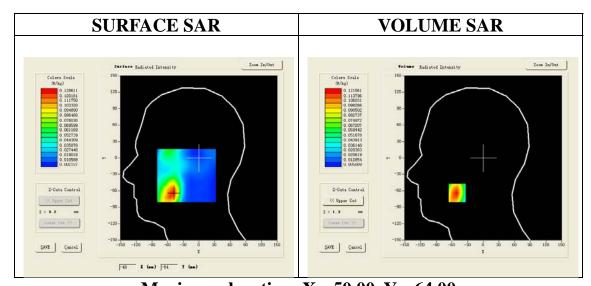
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: Flat Phantom; Type: Elliptical Phantom

· Measurement SW: OpenSAR V4_02_01

Configuration/PCS1900 Mid-Touch-Left/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/PCS1900 Mid-Touch-Left/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

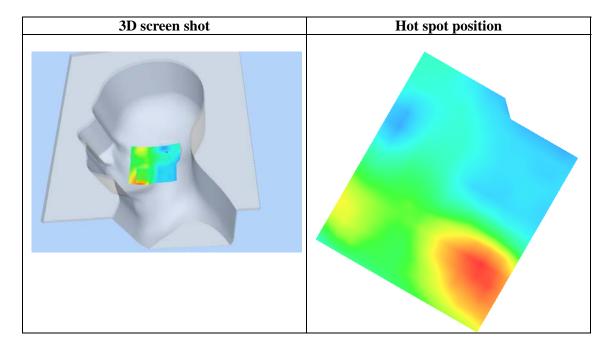
Area Scan	sam_direct_droit2_surf8mm.txt			
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast			
Phantom	Left head			
Device Position	Cheek			
Band	PCS 1900			
Channels	Middle			
Signal	TDMA (Crest factor: 8.0)			



Maximum location: X=-50.00, Y=-64.00

SAR 10g (W/Kg)	0.071204	
SAR 1g (W/Kg)	0.117638	

	4.00	9.00	14.00	19.00		
0.0000	0.1216	0.0824	0.0553	0.0367		
SAR, Z A	xis Scan	(X = -50,	∀ = −64)			
.12-						
. 04 –			\Box			
02-	5.0 7.5 10.0	12.5 15.0 17.	5 20.0 22.5 25	5. 0		
Z (mm)						
	SAR, Z A	SAR, Z Axis Scan 12- 10- 08- 06- 04- 02- 0.0 2.5 5.0 7.5 10.0	SAR, Z Axis Scan (X = -50, 12- 10- 08- 06- 04- 02- 0.0 2.5 5.0 7.5 10.0 12.5 15.0 17.	SAR, Z Axis Scan (X = -50, Y = -64) 12- 10- 08- 06- 04- 02- 0.0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25		



Date: Jan.21,2014

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Test Laboratory: AGC Lab PCS 1900 Mid-Tilt-Left <SIM 1> DUT: Tablet PC; Type: Z708

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=4.72; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; $\sigma = 1.35$ mho/m; $\epsilon = 40.81$; $\rho = 1000$ kg/m³;

Phantom section: Left Section

Ambient temperature ($^{\circ}$ C): 21.0, Liquid temperature ($^{\circ}$ C): 21.0

SATIMO Configuration:

Probe: EP165; Calibrated: 01/31/2013

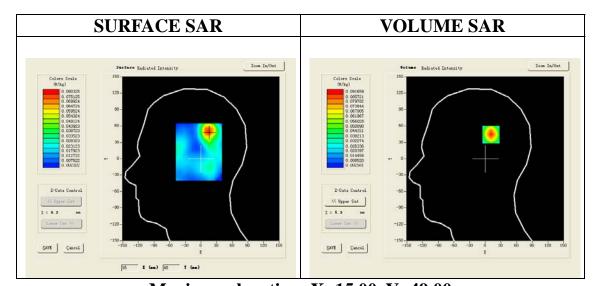
Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: Flat Phantom; Type: Elliptical Phantom

· Measurement SW: OpenSAR V4 02 01

Configuration/PCS1900 Mid-Tilt-Left/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/PCS1900 Mid-Tilt-Left/Zoom Scan: Measurement grid: dx=8mm, dy=8mm,dz=5mm;

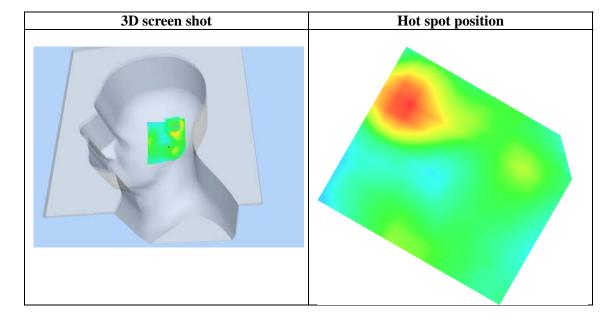
Area Scan	sam_direct_droit2_surf8mm.txt			
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast			
Phantom	Left head			
Device Position	Tilt			
Band	PCS 1900			
Channels	Middle			
Signal	TDMA (Crest factor: 8.0)			



Maximum location: X=15.00, Y=49.00

SAR 10g (W/Kg)	0.047415
SAR 1g (W/Kg)	0.083571

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0917	0.0565	0.0346	0.0212
	SAR, Z	Axis Scan	(X = 15,	Y = 49)	
0). 09 –				=
o). 08 –	\longrightarrow			
	0. 07 -	+ $+$ $+$	+	-	-
/kg)), 06 -	+			-
ి ి). 05 -			-+-	-
SAR o). 04 –		\rightarrow		-
0). 03 –		$\overline{}$		-
0). 02 -	+	+	\leftarrow	
0	0. 01 -				
	0.0 2.5 5			5 20.0 22.5 25	5.0
		:	Z (mm)		



Test Laboratory: AGC Lab Date: Jan.21,2014

PCS 1900 Mid-Touch-Right <SIM 1> DUT: Tablet PC; Type: Z708

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=4.72; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; $\sigma = 1.35 \text{ mho/m}$; $\epsilon = 40.81$; $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Right Section

Ambient temperature ($^{\circ}$ C): 21.0, Liquid temperature ($^{\circ}$ C): 21.0

SATIMO Configuration:

· Probe: EP165; Calibrated: 01/31/2013

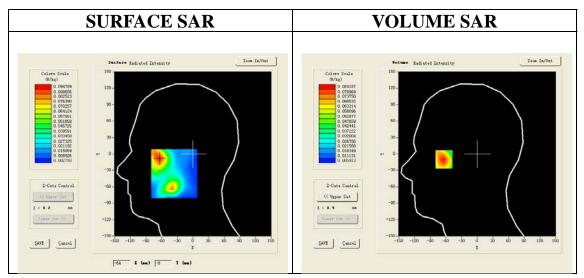
Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: Flat Phantom; Type: Elliptical Phantom

· Measurement SW: OpenSAR V4 02 01

Configuration/PCS1900 Mid-Touch-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/PCS1900 Mid-Touch-Right/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

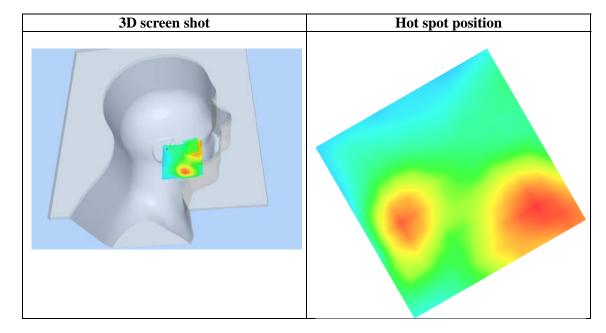
Area Scan	sam_direct_droit2_surf8mm.txt				
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast				
Phantom	Right head				
Device Position	Cheek				
Band	PCS 1900				
Channels	Middle				
Signal	TDMA (Crest factor: 8.0)				



Maximum location: X=-64.00, Y=-8.00

	,
SAR 10g (W/Kg)	0.051712
SAR 1g (W/Kg)	0.078237

Z (mm)	0.00		4.00	9.0	0	14.00	19.00
SAR (W/Kg)	0.0000	(.0842	0.05	69	0.0387	0.0266
	SAR,	Z Axis	Scan	(X =	-64,	A = -8)	
0	0.08-						
C	0. 07 -						
(kg)	. 06 -		\rightarrow				
). 06 -		+				
SAR O	0.04-		$\perp \perp$				
o	0.03-		$\perp \perp$			\Box	
	0.02-		$\perp \perp$				
	0.0 2.5	5 5.0	7.5 10.0	12.5 15.	0 17.	5 20.0 22.5 2	5. 0
	Z (mm)						



Date: Jan.21,2014

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Test Laboratory: AGC Lab PCS 1900 Mid-Tilt-Right <SIM 1> DUT: Tablet PC; Type: Z708

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=4.72; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; $\sigma = 1.35$ mho/m; $\epsilon = 40.81$; $\rho = 1000$ kg/m³;

Phantom section: Right Section

Ambient temperature ($^{\circ}$ C): 21.0, Liquid temperature ($^{\circ}$ C): 21.0

SATIMO Configuration:

• Probe: EP165; Calibrated: 01/31/2013

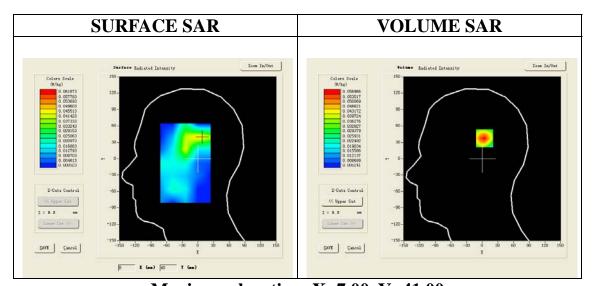
Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: Flat Phantom; Type: Elliptical Phantom

· Measurement SW: OpenSAR V4 02 01

Configuration/PCS1900 Mid-Tilt-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/PCS1900 Mid-Tilt-Right/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

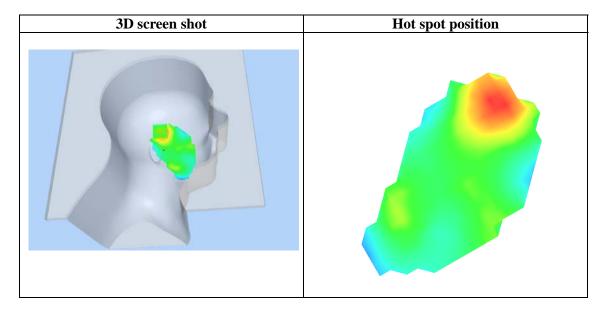
Area Scan	sam_direct_droit2_surf8mm.txt			
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast			
Phantom	Right head			
Device Position	Tilt			
Band	PCS 1900			
Channels	Middle			
Signal	TDMA (Crest factor: 8.0)			



Maximum location: X=7.00, Y=41.00

SAR 10g (W/Kg)	0.036651
SAR 1g (W/Kg)	0.053982

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0570	0.0457	0.0347	0.0246
	_	Axis Scan	(X = 7,	Y = 41)	
). 057 -				
0). 050 –	+			-
_ 0	0. 045 -	+			-
AR (W/kg)). 040 -	+			
≥ 0). 035 -	\perp			
SAR C). 030 –	\perp			
0). 025 -	+	\rightarrow		
0). 020 -	\perp			
0	0.016 -				
	0.0 2.5			5 20.0 22.5 25	5.0
			Z (mm)		



Test Laboratory: AGC Lab

Date: Jan.21,2014

PCS 1900 Mid-Touch-Left <SIM 2> DUT: Tablet PC; Type: Z708

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=4.72; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; $\sigma = 1.35$ mho/m; $\epsilon = 40.81$; $\rho = 1000$ kg/m³;

Phantom section: Left Section

Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

SATIMO Configuration:

· Probe: EP165; Calibrated: 01/31/2013

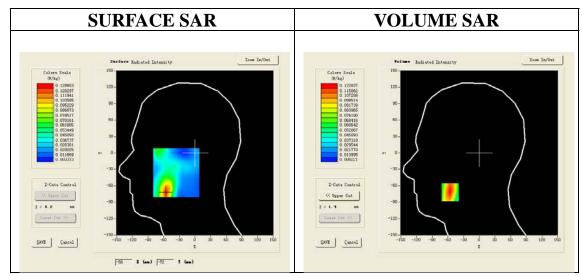
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: Flat Phantom; Type: Elliptical Phantom

· Measurement SW: OpenSAR V4_02_01

Configuration/PCS1900 Mid-Touch-Left/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/PCS1900 Mid-Touch-Left/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

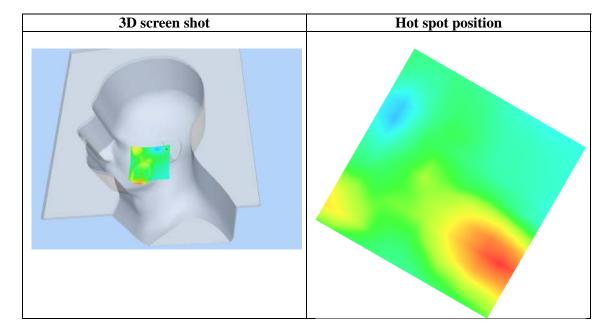
Area Scan	sam_direct_droit2_surf8mm.txt		
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast		
Phantom	Left head		
Device Position	Cheek		
Band	PCS 1900		
Channels	Middle		
Signal	TDMA (Crest factor: 8.0)		



Maximum location: X=-56.00, Y=-72.00

-		<u>'</u>
	SAR 10g (W/Kg)	0.067528
	SAR 1g (W/Kg)	0.113128

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1228	0.0761	0.0487	0.0332
0	SAR, Z A		(X = -56,	1	0.0332
SAR (%	0.06-				
	0.02- 0.0 2.5 5		 12.5 15.0 17. Z (mm)	5 20.0 22.5 25	5.0



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Test Laboratory: AGC Lab

Date: Jan.21,2014

PCS 1900 Mid-Body- Back <SIM 1> DUT: Tablet PC; Type: Z708

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=4.84; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; $\sigma = 1.52$ mho/m; $\epsilon = 54.07$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

SATIMO Configuration:

· Probe: EP165; Calibrated: 01/31/2013

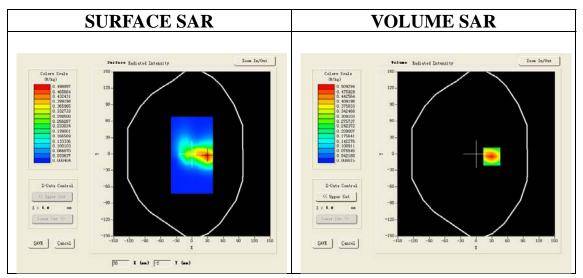
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: Flat Phantom; Type: Elliptical Phantom

· Measurement SW: OpenSAR V4_02_01

Configuration/PCS1900 Mid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/PCS1900 Mid-Body-Back/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

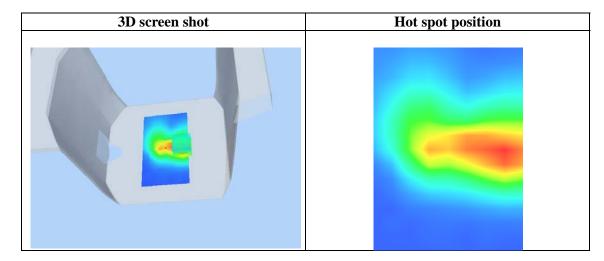
Area Scan	surf_sam_plan.txt		
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast		
Phantom	Validation plane		
Device Position	Body Back		
Band	PCS 1900		
Channels	Middle		
Signal	TDMA (Crest factor: 8.0)		



Maximum location: X=30.00, Y=-5.00

SAR 10g (W/Kg)	0.266275
SAR 1g (W/Kg)	0.517251

0.0000	0.5041	0.2448	0.1205	0.0658				
a.s. a			0.1202	U.0058				
	SAR (W/Kg) 0.0000 0.5041 0.2448 0.1205 0.0658 SAR, Z Axis Scan (X = 30, Y = -5)							
				-				
				-				
0.0 2.5 5			5 20.0 22.5 25	£ 0				
_		0.0 2.5 5.0 7.5 10.0		0.0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25				



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Test Laboratory: AGC Lab Date: Jan.21,2014

PCS 1900 Mid-Body -Front (MS) <SIM 1>

DUT: Tablet PC; Type: Z708

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=4.84; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; $\sigma = 1.52 \text{ mho/m}$; $\epsilon = 54.07$; $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Flat Section

Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

SATIMO Configuration:

· Probe: EP165; Calibrated: 01/31/2013

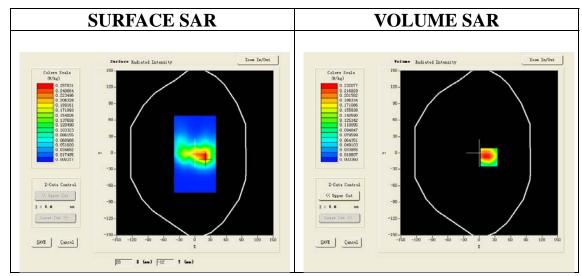
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: Flat Phantom; Type: Elliptical Phantom

· Measurement SW: OpenSAR V4_02_01

Configuration/PCS1900 Mid-Body- Front /Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/PCS1900 Mid-Body- Front /Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

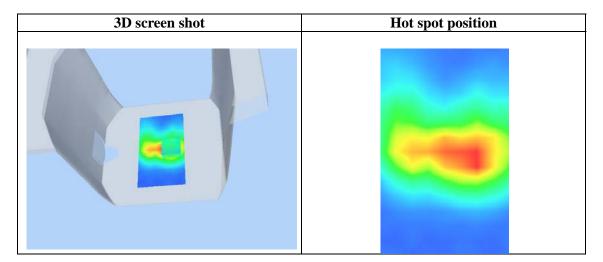
Area Scan	surf_sam_plan.txt		
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast		
Phantom	Validation plane		
Device Position	Body Front		
Band	PCS 1900		
Channels	Middle		
Signal	TDMA (Crest factor: 8.0)		



Maximum location: X=19.00, Y=-8.00

	,
SAR 10g (W/Kg)	0.132471
SAR 1g (W/Kg)	0.242014

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.2240	0.1248	0.0692	0.0378
	SAR, Z	Axis Scan	(X = 19,	A = -8)	
0	. 230 -				_
0	. 200 –	\longrightarrow			
0	. 175 -	$+$ \ $+$			-
(%)). 150 –). 125 –	+ + +			-
≥ 0	. 125 –	++			-
ak o	. 100 –	+	$\overline{}$		-
	0.075	+			-
0). 050 -	+			-
0	0.019-				
	0.0 2.5	5.0 7.5 10.0		5 20.0 22.5 25	5. 0
			Z (mm)		



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Test Laboratory: AGC Lab Date: Jan.21,2014

PCS 1900 Mid-Horizontal near antenna

DUT: Tablet PC; Type: Z708

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=4.84; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; $\sigma = 1.52 \text{ mho/m}$; $\epsilon = 54.07$; $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Flat Section

Ambient temperature (°C):21, Liquid temperature (°C):21

SATIMO Configuration:

Probe: EP165; Calibrated: 01/31/2013

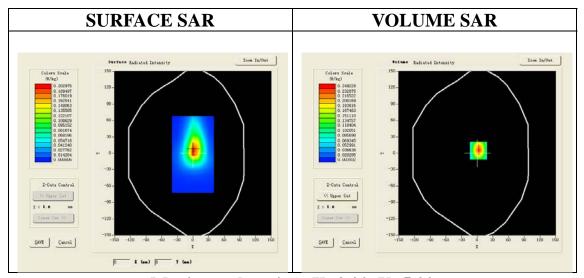
Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: Flat Phantom; Type: Elliptical Phantom

· Measurement SW: OpenSAR V4 02 01

Configuration/PCS1900 Mid- Horizontal near antenna /Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/PCS1900 Mid- Horizontal near antenna /Zoom Scan: Measurement grid:dx=8mm, dy=8mm, dz=5mm;

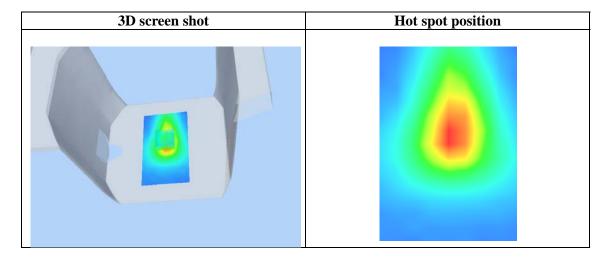
Area Scan	surf_sam_plan.txt		
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast		
Phantom	Validation plane		
Device Position	Horizontal		
Band	PCS 1900		
Channels	Middle		
Signal	TDMA (Crest factor: 8.0)		



Maximum location: X=2.00, Y=5.00

SAR 10g (W/Kg)	0.114217
SAR 1g (W/Kg)	0.253824

Z (mm)	0.00	4.00	9.00	14.00	19.00			
SAR (W/Kg)	0.0000	0.2415	0.1120	0.0526	0.0307			
	SAR, Z Axis Scan $(X = 2, Y = 5)$							
). 25 -							
). 15 –							
SAR G). 10 –	+						
). 05 -				-			
0	0.0 2.5 5		12.5 15.0 17. Z (mm)	5 20.0 22.5 25	5. 0			



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Test Laboratory: AGC Lab Date: Jan.21,2014

PCS 1900 Mid-Horizontal away from antenna

DUT: Tablet PC; Type: Z708

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=4.84; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; $\sigma = 1.52 \text{ mho/m}$; $\epsilon = 54.07$; $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Flat Section

Ambient temperature (°C):21, Liquid temperature (°C):21

SATIMO Configuration:

Probe: EP165; Calibrated: 01/31/2013

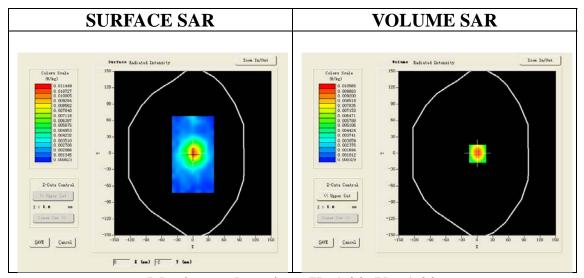
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: Flat Phantom; Type: Elliptical Phantom

· Measurement SW: OpenSAR V4 02 01

Configuration/PCS1900 Mid-Horizontal away from antenna /Area Scan: Measurement grid: dx=8mm,dy=8mm Configuration/PCS1900 Mid-Horizontal away from antenna /Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

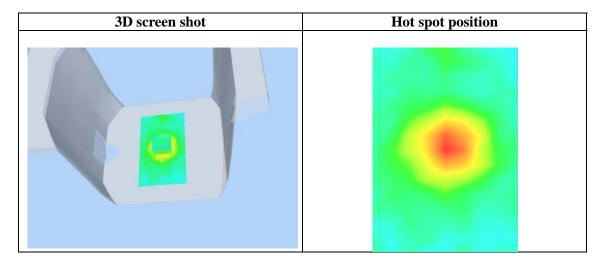
Area Scan	surf_sam_plan.txt			
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast			
Phantom	Validation plane			
Device Position	Horizontal			
Band	PCS 1900			
Channels	Middle			
Signal	TDMA (Crest factor: 8.0)			



Maximum location: X=1.00, Y=-1.00

SAR 10g (W/Kg)	0.008491
SAR 1g (W/Kg)	0.014874

Z (mm)	0.00	4.00	9.00	14.00	19.00	
SAR (W/Kg)	0.0000	0.0176	0.0040	0.0032	0.0018	
	SAR, Z Axis Scan $(X = 1, Y = -1)$					
C	0. 011 -	\				
	0.008 -	\mathbb{N}				
). 006 -					
C	0.002 -					
	0.0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0 Z (mm)					



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Test Laboratory: AGC Lab Date: Jan.21,2014

PCS 1900 Mid-Vertical near antenna DUT: Tablet PC; Type: Z708

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=4.84; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; $\sigma = 1.52$ mho/m; $\epsilon = 54.07$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

Ambient temperature (°C):21, Liquid temperature (°C):21

SATIMO Configuration:

• Probe: EP165; Calibrated: 01/31/2013

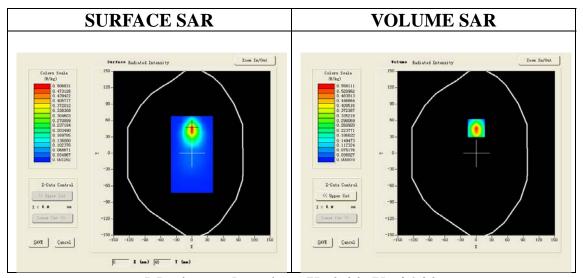
Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: Flat Phantom; Type: Elliptical Phantom

· Measurement SW: OpenSAR V4_02_01

Configuration/PCS1900 Mid-Vertical near antenna /Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/PCS1900 Mid-Vertical near antenna /Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

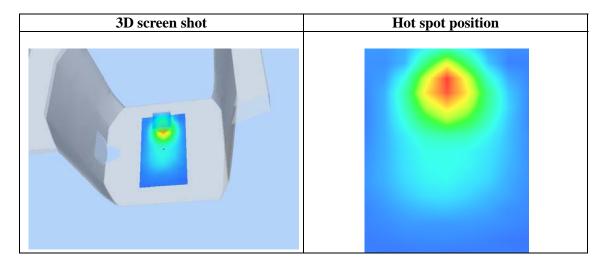
Area Scan	surf_sam_plan.txt			
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast			
Phantom	Validation plane			
Device Position	Vertical			
Band	PCS 1900			
Channels	Middle			
Signal	TDMA (Crest factor: 8.0)			



Maximum location: X=0.00, Y=46.00

SAR 10g (W/Kg)	0.247125
SAR 1g (W/Kg)	0.553680

Z (mm)	0.00	4.00	9.00	14.00	19.00		
SAR (W/Kg)	0.0000	0.5581	0.2573	0.1180	0.0558		
	SAR, Z Axis Scan $(X = 0, Y = 46)$						
	1.6-						
0	.5-	\ 			-		
		$ \setminus $					
୍ଷ ପ	. 4 -						
(#/kg)	3-						
SAR 0	. 2-	+	+				
			1				
0	. 1 –						
0	. 0 -						
	0.0 2.5 5	5.0 7.5 10.0	12.5 15.0 17.	5 20.0 22.5 25	5.0		
Z (mm)							



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Test Laboratory: AGC Lab Date: Jan.21,2014

PCS 1900 Mid-Vertical away from antenna

DUT: Tablet PC; Type: Z708

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=4.84; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; $\sigma = 1.52$ mho/m; $\epsilon = 54.07$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

Ambient temperature (°C):21, Liquid temperature (°C):21

SATIMO Configuration:

Probe: EP165; Calibrated: 01/31/2013

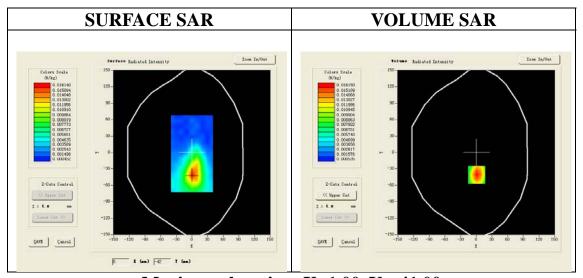
Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: Flat Phantom; Type: Elliptical Phantom

· Measurement SW: OpenSAR V4 02 01

Configuration/PCS1900 Mid-Vertical away from antenna /Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/PCS1900 Mid-Vertical away from antenna /Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt			
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast			
Phantom	Validation plane			
Device Position	Vertical			
Band	PCS 1900			
Channels	Middle			
Signal	TDMA (Crest factor: 8.0)			



Maximum location: X=1.00, Y=-41.00

SAR 10g (W/Kg)	0.008963
SAR 1g (W/Kg)	0.015318

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0162	0.0086	0.0046	0.0027
	SAR, Z	Axis Scan	(X = 1, Y)	7 = -41)	
0	0.016-	\ 	1 1 1		
C	0.014-	\longrightarrow			
	0.012-	$+$ \ $+$			
SAR (W/kg)	0.010	+ + +			
ළ අ). 008 -	++			
్గ్). 006 -	 	$\overline{}$		-
C). 004 -	++++			
C	0.002 -				-
	0.0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0				
	Z (mm)				

