FCC SAR Test Report

APPLICANT	:	Huawei Technologies Co., Ltd.
EQUIPMENT	:	HUAWEI Ascend G 301; HSDPA/UMTS/GSM/GPRS/EDGE Mobile Phone with Bluetooth
BRAND NAME	:	HUAWEI
MODEL NAME	:	HUAWEI U8816-51, U8816-51
FCC ID	:	QISU8816-51
STANDARD	:	FCC 47 CFR Part 2 (2.1093) IEEE C95.1-1999 IEEE 1528-2003 IEEE 1528a-2005 FCC OET Bulletin 65 Supplement C (Edition 01-01)

The product was received on Apr. 06, 2012 and completely tested on May 10, 2012. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the procedures and shown the compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by:

Jones Tsai / Manager

Testing Laboratory 1190

SPORTON INTERNATIONAL INC.
No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

Table of Contents

Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA240601	Rev. 01	Initial issue of report	Jun. 05, 2012

1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for **Huawei Technologies Co., Ltd., DUT : HUAWEI Ascend G 301; HSDPA/UMTS/GSM/GPRS/EDGE Mobile Phone with** BLUETOOTH**, Brand Name : HUAWEI, Model Name : HUAWEI U8816-51, U8816-51** are as follows.

<Standalone SAR>

Band	Position	SAR_{1g} (W/kg)
GSM850	Head	0.355
	Body-worn (1 cm Gap)	1.24
	Hotspot (1 cm Gap)	1.24
GSM1900	Head	0.261
	Body-worn (1 cm Gap)	0.637
	Hotspot (1 cm Gap)	0.637
WCDMA Band V	Head	0.244
	Body-worn (1 cm Gap)	0.725
	Hotspot (1 cm Gap)	0.725
WCDMA Band II	Head	0.401
	Body-worn (1 cm Gap)	1.11
	Hotspot (1 cm Gap)	1.01
WLAN 2.4G	Head	0.128
	Body-worn (1 cm Gap)	0.099
	Hotspot (1 cm Gap)	0.14

This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CFR part 2 (2.1093) and IEEE C95.1-1999, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2003, IEEE 1528a-2005 and FCC OET Bulletin 65 Supplement C (Edition 01-01).

2. Administration Data

2.1 Testing Laboratory

Test Site	SPORTON INTERNATIONAL (KUNSHAN) INC.
Test Site Location	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C. TEL: +86-0512-5790-0158 FAX: +86-0512-5790-0958

2.2 Applicant

Company Name	Huawei Technologies Co., Ltd.
Address	Bantian, Longgang District, Shenzhen, 51829 Guangdong, P.R.China

2.3 Manufacturer

Company Name	Huawei Technologies Co., Ltd.
Address	Bantian, Longgang District, Shenzhen, 51829 Guangdong, P.R.China

2.4 Application Details

Date of Receipt of Application	Apr. 06, 2012
Date of Start during the Test	May 02, 2012
Date of End during the Test	May 10, 2012

3. General Information

3.1 Description of Device Under Test (DUT)

Product Feature & Specification	
DUT Type	HUAWEI Ascend G 301; HSDPA/UMTS/GSM/GPRS/EDGE Mobile Phone with Bluetooth
Brand Name	HUAWEI
Model Name	HUAWEI U8816-51, U8816-51
FCC ID	QISU8816-51
Tx Frequency	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz
Rx Frequency	GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz WCDMA Band V: 871.4 MHz ~ 891.6 MHz WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz
Maximum Output Power to Antenna	GSM850: 32.38 dBm GSM1900: 30.18 dBm WCDMA Band V: 23.26 dBm WCDMA Band II: 23.18 dBm 802.11b: 13.88 dBm 802.11g: 11.81 dBm 802.11n (BW 20MHz) (2.4GHz): 8.75 dBm Bluetooth: 6.34 dBm
Antenna Type	WWAN : Fixed Internal Antenna Bluetooth : Loop Antenna WLAN : Loop Antenna
HW Version	HD3U8815M
SW Version	U8816-51V100R001C00B879
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE: GMSK / 8PSK WCDMA: QPSK (Uplink) HSDPA: QPSK (Uplink) 802.11b: DSSS (BPSK / QPSK / CCK) 802.11g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM) Bluetooth (1Mbps): GFSK Bluetooth EDR (2Mbps): π/4-DQPSK Bluetooth EDR (3Mbps): 8-DPSK
Dual Transfer Mode (DTM) Category	Class B – DUT cannot support Packet Switched and Circuit Switched Network simultaneously but can automatically switch between Packet and Circuit Switched Network.
DUT Stage	Identical Prototype
Remark: The above DUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.	

List of Accessory:

Specification of Accessory		
Battery 1	**Brand Name**	HUAWEI
	Model Name	HB5N1H
	Serial Number	UBDC225X97500390
Battery 2	**Brand Name**	HUAWEI
	Model Name	HB5N1
	Serial Number	BAAC106998081338
Battery 3	**Brand Name**	HUAWEI
	Model Name	HB5N1
	Serial Number	GAGBB28XC4800222
Earphone 1	**Manufacturer**	Quancheng
Earphone 2	**Manufacturer**	Lianchuang

3.2 Product Photos

Please refer to Appendix D.

3.3 Applied Standards

The Specific Absorption Rate (SAR) testing specification, method and procedure for this device is in accordance with the following standards:

- FCC 47 CFR Part 2 (2.1093)
- IEEE C95.1-1999
- IEEE 1528-2003
- IEEE 1528a-2005
- FCC OET Bulletin 65 Supplement C (Edition 01-01)
- FCC KDB 447498 D01 v04
- FCC KDB 648474 D01 v01r05
- FCC KDB 941225 D01 v02
- FCC KDB 941225 D03 v01
- FCC KDB 941225 D06 v01
- FCC KDB 248227 D01 v01r02

3.4 Device Category and SAR Limits

This device belongs to portable device category because its radiating structure is allowed to be used within 20 centimeters of the body of the user. Limit for General Population/Uncontrolled exposure should be applied for this device, it is 1.6 W/kg as averaged over any 1 gram of tissue.

3.5 Test Conditions

3.5.1. Ambient Condition

Ambient Temperature	20 to 24 ℃
Humidity	< 60 %

3.5.2. Test Configuration

The device was controlled by using a base station emulator. Communication between the device and the emulator was established by air link. The distance between the DUT and the antenna of the emulator is larger than 50 cm and the output power radiated from the emulator antenna is at least 30 dB smaller than the output power of DUT. The DUT was set from the emulator to radiate maximum output power during all tests.

For WLAN SAR testing, WLAN engineering testing software installed on the DUT can provide continuous transmitting RF signal.

4. Specific Absorption Rate (SAR)

4.1 Introduction

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

4.2 SAR Definition

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

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

SAR is expressed in units of Watts per kilogram (W/kg)

SAR measurement can be either related to the temperature elevation in tissue by

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

Where: C is the specific heat capacity, δT is the temperature rise and δt is the exposure duration, or related to the electrical field in the tissue by

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

Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength.

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

5. SAR Measurement System

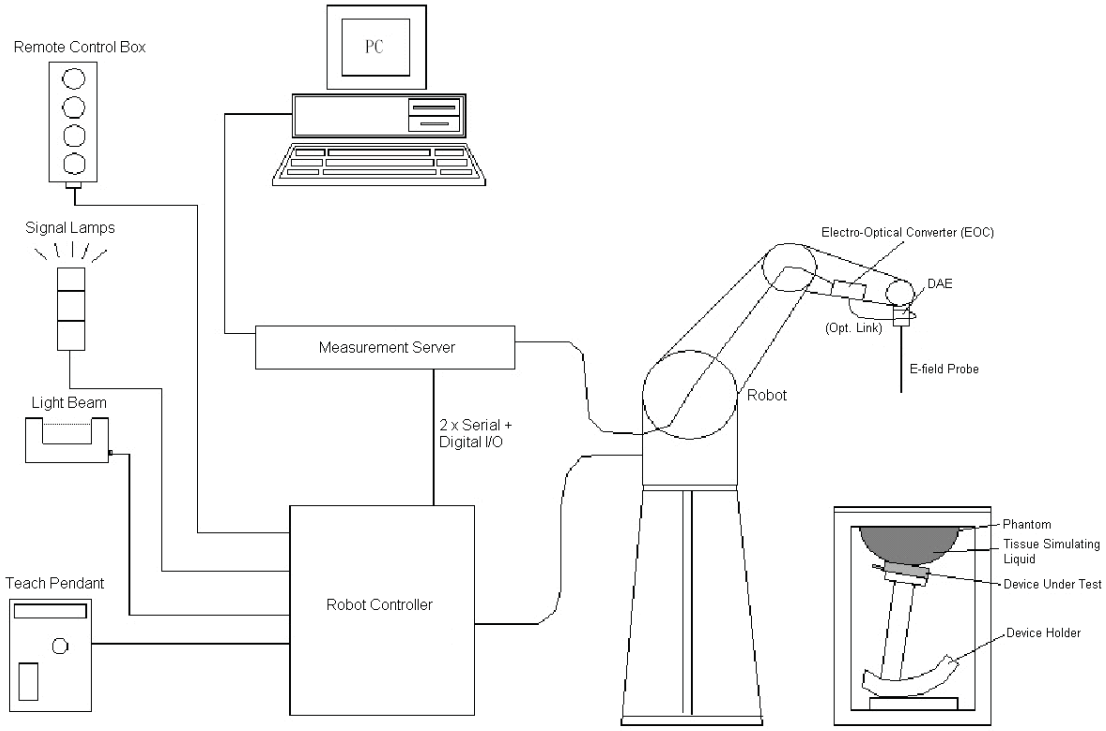


Fig 5.1 SPEAG DASY4 or DASY5 System Configurations

The DASY4 or DASY5 system for performance compliance tests is illustrated above graphically. This system consists of the following items:

- A standard high precision 6-axis robot with controller, a teach pendant and software
- A data acquisition electronic (DAE) attached to the robot arm extension
- A dosimetric probe equipped with an optical surface detector system
- The electro-optical converter (ECO) performs the conversion between optical and electrical signals
- A measurement server performs the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the accuracy of the probe positioning
- A computer operating Windows XP
- DASY4 or DASY5 software
- Remove control with teach pendant and additional circuitry for robot safety such as warming lamps, etc.
- The SAM twin phantom
- A device holder
- Tissue simulating liquid
- Dipole for evaluating the proper functioning of the system

Some of the components are described in details in the following sub-sections.

5.1 E-Field Probe

The SAR measurement is conducted with the dosimetric probe (manufactured by SPEAG).The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. This probe has a built in optical surface detection system to prevent from collision with phantom.

5.1.1. E-Field Probe Specification

<ES3DV3>

Construction	Symmetrical design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Frequency	10 MHz to 4 GHz; Linearity: ± 0.2 dB
Directivity	± 0.2 dB in HSL (rotation around probe axis) ± 0.3 dB in tissue material (rotation normal to probe axis)
Dynamic Range	5 µW/g to 100 mW/g; Linearity: ± 0.2 dB
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 3.9 mm (Body: 12 mm) Distance from probe tip to dipole centers: 2.0 mm

Fig 5.2 Photo of ES3DV3

<EX3DV4 Probe>

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Frequency	10 MHz to 6 GHz; Linearity: ± 0.2 dB
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)
Dynamic Range	10 µW/g to 100 mW/g; Linearity: ± 0.2 dB (noise: typically < 1 µW/g)
Dimensions	Overall length: 330 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm

Fig 5.3 Photo of EX3DV4

5.1.2. E-Field Probe Calibration

Each probe needs to be calibrated according to a dosimetric assessment procedure with accuracy better than ± 10%. The spherical isotropy shall be evaluated and within ± 0.25 dB. The sensitivity parameters (NormX, NormY, and NormZ), the diode compression parameter (DCP) and the conversion factor (ConvF) of the probe are tested. The calibration data can be referred to appendix C of this report.

5.2 Data Acquisition Electronics (DAE)

The data acquisition electronics (DAE) consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information as well as an optical uplink for commands and the clock.

The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.

Fig 5.4 Photo of DAE

5.3 Robot

The SPEAG DASY system uses the high precision robots (DASY5: TX90XL) type from Stäubli SA (France). For the 6-axis controller system, the robot controller version (DASY5: CS8c) from Stäubli is used. The Stäubli robot series have many features that are important for our application:

- High precision (repeatability ±0.035 mm)
- High reliability (industrial design)
- Jerk-free straight movements
- Low ELF interference (the closed metallic construction shields against motor control fields)

Fig 5.5 Photo of DASY5

5.4 Measurement Server

The measurement server is based on a PC/104 CPU board with CPU (DASY5: 400 MHz, Intel Celeron), chipdisk (DASY5: 128 MB), RAM (DASY5: 128 MB). The necessary circuits for communication with the DAE electronic box, as well as the 16 bit AD converter system for optical detection and digital I/O interface are contained on the DASY I/O board, which is directly connected to the PC/104 bus of the CPU board.

The measurement server performs all the real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operations.

Fig 5.6 Photo of Server for DASY5

5.5 Phantom

<SAM Twin Phantom>

Shell Thickness	2 ± 0.2 mm; Center ear point: 6 ± 0.2 mm
Filling Volume	Approx. 25 liters
Dimensions	Length: 1000 mm; Width: 500 mm; Height: adjustable feet
Measurement Areas	Left Hand, Right Hand, Flat Phantom

Fig 5.7 Photo of SAM 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.

<ELI4 Phantom>

Shell Thickness	2 ± 0.2 mm (sagging: <1%)
Filling Volume	Approx. 30 liters
Dimensions	Major ellipse axis: 600 mm Minor axis: 400 mm

Fig 5.8 Photo of ELI4 Phantom

The ELI4 phantom is intended for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI4 is fully compatible with standard and all known tissue simulating liquids.

5.6 Device Holder

<Device Holder for SAM Twin Phantom>

The SAR in the phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source at 5 mm distance, a positioning uncertainty of ± 0.5 mm would produce a SAR uncertainty of ± 20 %. Accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions in which the devices must be measured are defined by the standards.

The DASY 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 DASY device holder is constructed of low-loss POM material having the following dielectric parameters: relative permittivity ε = 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.

Fig 5.9 Device Holder

5.7 Data Storage and Evaluation

5.7.1. Data Storage

The DASY software stores the assessed data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all the necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files. The post-processing software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of erroneous parameter settings. For example, if a measurement has been performed with an incorrect crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be reevaluated.

The measured data can be visualized or exported in different units or formats, depending on the selected probe type (e.g., [V/m], [A/m], [mW/g]). Some of these units are not available in certain situations or give meaningless results, e.g., a SAR-output in a non-lose media, will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

5.7.2. Data Evaluation

The DASY post-processing software (SEMCAD) automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software：

Probe parameters：	- Sensitivity	$Norm_i$, a_{i0}, a_{i1}, a_{i2}
	- Conversion factor	$ConvF_i$
	- Diode compression point	dcp_i
Device parameters：	- Frequency	f
	- Crest factor	cf
Media parameters：	- Conductivity	σ
	- Density	ρ

These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the DASY components. In the direct measuring mode of the multi-meter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics. If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power.

The formula for each channel can be given as :

$$\mathbf{V_i = U_i + U_i^2 \cdot \frac{cf}{dcp_i}}$$

with V_i = compensated signal of channel i, (i = x, y, z)
U_i = input signal of channel i, (i = x, y, z)
cf = crest factor of exciting field (DASY parameter)
dcp_i = diode compression point (DASY parameter)

From the compensated input signals, the primary field data for each channel can be evaluated :

E-field Probes : $\mathbf{E_i = \sqrt{\frac{V_i}{Norm_i \cdot ConvF}}}$

H-field Probes : $\mathbf{H_i = \sqrt{V_i} \cdot \frac{a_{i0}+a_{i1}f+a_{i2}f^2}{f}}$

with V_i = compensated signal of channel i, (i = x, y, z)
$Norm_i$ = sensor sensitivity of channel i, (i = x, y, z), μV/(V/m)^2 for E-field Probes
ConvF = sensitivity enhancement in solution
a_{ij} = sensor sensitivity factors for H-field probes
f = carrier frequency [GHz]
E_i = electric field strength of channel i in V/m
H_i = magnetic field strength of channel i in A/m

The RSS value of the field components gives the total field strength (Hermitian magnitude) :

$$\mathbf{E_{tot} = \sqrt{E_x^2 + E_y^2 + E_z^2}}$$

The primary field data are used to calculate the derived field units.

$$\mathbf{SAR = E_{tot}^2 \cdot \frac{\sigma}{\rho \cdot 1000}}$$

with SAR = local specific absorption rate in mW/g
E_{tot} = total field strength in V/m
σ = conductivity in [mho/m] or [Siemens/m]
ρ = equivalent tissue density in g/cm^3

Note that the density is set to 1, to account for actual head tissue density rather than the density of the tissue simulating liquid.

5.8 Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
SPEAG	Dosimetric E-Field Probe	EX3DV4	3819	Nov. 16, 2011	Nov. 15, 2012
SPEAG	Dosimetric E-Field Probe	ES3DV3	3270	Sep. 12, 2011	Sep. 11, 2012
SPEAG	Data Acquisition Electronics	DAE4	1303	Nov. 10, 2011	Nov. 09, 2012
SPEAG	835MHz System Validation Kit	D835V2	4d091	Nov. 18, 2011	Nov. 17, 2012
SPEAG	1900MHz System Validation Kit	D1900V2	5d118	Nov. 21, 2011	Nov. 20, 2012
SPEAG	2450MHz System Validation Kit	D2450V2	736	Jul. 25, 2011	Jul. 24, 2012
Agilent	ENA Series Network Analyzer	E5071C	MY46111157	Apr. 13, 2012	Apr. 12, 2013
Agilent	Wireless Communication Test Set	E5515C	MY50264165	Mar. 12, 2012	Mar. 11, 2013
Agilent	Dielectric Probe Kit	85070E	MY44300475	NCR	NCR
Agilent	Base Station	E5515C	GB47050646	Aug.18, 2011	Aug. 17, 2012
SPEAG	SAM Twin Phantom	QD 000 P40 CD	TP-1670	NCR	NCR
SPEAG	SAM Twin Phantom	QD 000 P40 CD	TP-1671	NCR	NCR
R&S	Spectrum Analyzer	FSP30	101400	Jun. 02, 2011	Jun. 01, 2012
R&S	Signal Generator	SMR40	100455	Dec. 29, 2011	Dec. 28, 2012

Table 5.1 Test Equipment List

Note: The calibration certificate of DASY can be referred to appendix C of this report.

6. Tissue Simulating Liquids

For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with around 25 liters of homogeneous body tissue simulating liquid. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm, which is shown in Fig. 6.1. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm, which is shown in Fig. 6.2.

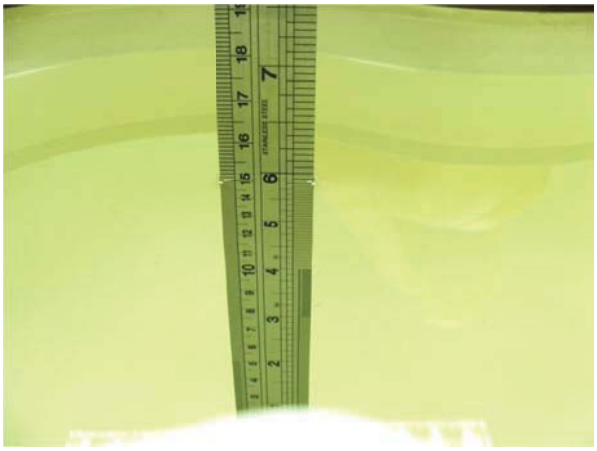


Fig 6.1 Photo of Liquid Height for Head SAR

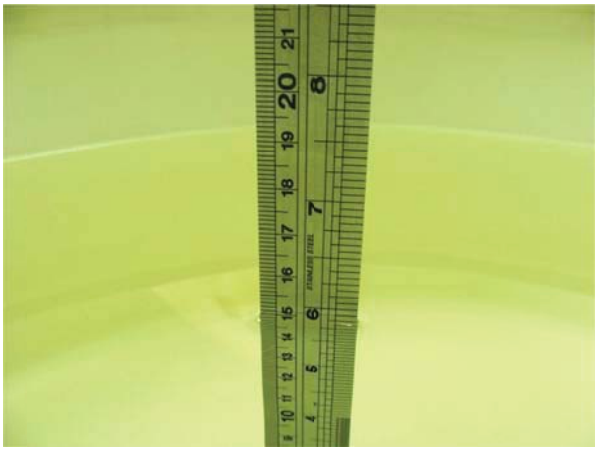


Fig 6.2 Photo of Liquid Height for Body SAR

The following table gives the recipes for tissue simulating liquid.

Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity (σ)	Permittivity (ε_r)
For Head								
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5
1800, 1900, 2000	55.2	0	0	0.3	0	44.5	1.40	40.0
2450	55.0	0	0	0	0	45.0	1.80	39.2
For Body								
835	50.8	48.2	0	0.9	0.1	0	0.97	55.2
1800, 1900, 2000	70.2	0	0	0.4	0	29.4	1.52	53.3
2450	68.6	0	0	0	0	31.4	1.95	52.7

Table 6.1 Recipes of Tissue Simulating Liquid

The dielectric parameters of the liquids were verified prior to the SAR evaluation using an Agilent 85070D Dielectric Probe Kit and an Agilent Network Analyzer.

The following table shows the measuring results for simulating liquid.

Freq.	Liquid Type	Temp. (℃)	Conductivity (σ)	Permittivity (ε_r)	Conductivity Target (σ)	Permittivity Target (ε_r)	Delta (σ) (%)	Delta (ε_r) (%)	Limit (%)	Date
835	Head	21.7	0.897	40.781	0.90	41.5	-0.33	-1.73	±5	May 02, 2012
835	Head	21.6	0.902	40.749	0.90	41.5	0.22	-1.81	±5	May 10, 2012
835	Body	21.6	0.97	56.499	0.97	55.2	0.00	2.35	±5	May 03, 2012
835	Body	21.7	0.977	54.928	0.97	55.2	0.72	-0.49	±5	May 09, 2012
835	Body	21.4	0.969	56.069	0.97	55.2	-0.10	1.57	±5	May 10, 2012
1900	Head	21.5	1.415	40.527	1.40	40.0	1.07	1.32	±5	May 10, 2012
1900	Body	21.4	1.535	54.579	1.52	53.3	0.99	2.40	±5	May 02, 2012
1900	Body	21.5	1.512	53.903	1.52	53.3	-0.53	1.13	±5	May 09, 2012
2450	Head	21.4	1.82	39.753	1.80	39.2	1.11	1.41	±5	May 03, 2012
2450	Head	21.3	1.834	39.654	1.80	39.2	1.89	1.16	±5	May 09, 2012
2450	Body	21.3	2.002	53.464	1.95	52.7	2.67	1.45	±5	May 03, 2012
2450	Body	21.6	1.939	53.98	1.95	52.7	-0.56	2.43	±5	May 09, 2012

Table 6.2 Measuring Results for Simulating Liquid

7. Uncertainty Assessment

The component of uncertainly may generally be categorized according to the methods used to evaluate them. The evaluation of uncertainly by the statistical analysis of a series of observations is termed a Type An evaluation of uncertainty. The evaluation of uncertainty by means other than the statistical analysis of a series of observation is termed a Type B evaluation of uncertainty. Each component of uncertainty, however evaluated, is represented by an estimated standard deviation, termed standard uncertainty, which is determined by the positive square root of the estimated variance.

A Type A evaluation of standard uncertainty may be based on any valid statistical method for treating data. This includes calculating the standard deviation of the mean of a series of independent observations; using the method of least squares to fit a curve to the data in order to estimate the parameter of the curve and their standard deviations; or carrying out an analysis of variance in order to identify and quantify random effects in certain kinds of measurement.

A type B evaluation of standard uncertainty is typically based on scientific judgment using all of the relevant information available. These may include previous measurement data, experience and knowledge of the behavior and properties of relevant materials and instruments, manufacture's specification, data provided in calibration reports and uncertainties assigned to reference data taken from handbooks. Broadly speaking, the uncertainty is either obtained from an outdoor source or obtained from an assumed distribution, such as the normal distribution, rectangular or triangular distributions indicated in Table 7.1

Uncertainty Distributions	Normal	Rectangular	Triangular	U-Shape
Multi-plying Factor[a]	1/k[b]	$1/\sqrt{3}$	$1/\sqrt{6}$	$1/\sqrt{2}$

(a) standard uncertainty is determined as the product of the multiplying factor and the estimated range of variations in the measured quantity

(b) κ is the coverage factor

Table 7.1 Standard Uncertainty for Assumed Distribution

The combined standard uncertainty of the measurement result represents the estimated standard deviation of the result. It is obtained by combining the individual standard uncertainties of both Type A and Type B evaluation using the usual "root-sum-squares" (RSS) methods of combining standard deviations by taking the positive square root of the estimated variances.

Expanded uncertainty is a measure of uncertainty that defines an interval about the measurement result within which the measured value is confidently believed to lie. It is obtained by multiplying the combined standard uncertainty by a coverage factor. Typically, the coverage factor ranges from 2 to 3. Using a coverage factor allows the true value of a measured quantity to be specified with a defined probability within the specified uncertainty range. For purpose of this document, a coverage factor two is used, which corresponds to confidence interval of about 95 %. The DASY uncertainty Budget is showed in Table 7.2.

Error Description	Uncertainty Value (±%)	Probability Distribution	Divisor	Ci (1g)	Standard Uncertainty (1g)
Measurement System					
Probe Calibration	6.0	Normal	1	1	± 6.0 %
Axial Isotropy	4.7	Rectangular	√3	0.7	± 1.9 %
Hemispherical Isotropy	9.6	Rectangular	√3	0.7	± 3.9 %
Boundary Effects	1.0	Rectangular	√3	1	± 0.6 %
Linearity	4.7	Rectangular	√3	1	± 2.7 %
System Detection Limits	1.0	Rectangular	√3	1	± 0.6 %
Readout Electronics	0.3	Normal	1	1	± 0.3 %
Response Time	0.8	Rectangular	√3	1	± 0.5 %
Integration Time	2.6	Rectangular	√3	1	± 1.5 %
RF Ambient Noise	3.0	Rectangular	√3	1	± 1.7 %
RF Ambient Reflections	3.0	Rectangular	√3	1	± 1.7 %
Probe Positioner	0.4	Rectangular	√3	1	± 0.2 %
Probe Positioning	2.9	Rectangular	√3	1	± 1.7 %
Max. SAR Eval.	1.0	Rectangular	√3	1	± 0.6 %
Test Sample Related					
Device Positioning	2.9	Normal	1	1	± 2.9 %
Device Holder	3.6	Normal	1	1	± 3.6 %
Power Drift	5.0	Rectangular	√3	1	± 2.9 %
Phantom and Setup					
Phantom Uncertainty	4.0	Rectangular	√3	1	± 2.3 %
Liquid Conductivity (Target)	5.0	Rectangular	√3	0.64	± 1.8 %
Liquid Conductivity (Meas.)	2.5	Normal	1	0.64	± 1.6 %
Liquid Permittivity (Target)	5.0	Rectangular	√3	0.6	± 1.7 %
Liquid Permittivity (Meas.)	2.5	Normal	1	0.6	± 1.5 %
Combined Standard Uncertainty					± 10.99 %
Coverage Factor for 95 %					K = 2
Expanded Uncertainty					**± 21.97 %**

Table 7.2 Uncertainty Budget of DASY for frequency range 300 MHz to 3 GHz

8. SAR Measurement Evaluation

Each DASY system is equipped with one or more system validation kits. These units, together with the predefined measurement procedures within the DASY software, enable the user to conduct the system performance check and system validation. System validation kit includes a dipole, tripod holder to fix it underneath the flat phantom and a corresponding distance holder.

8.1 Purpose of System Performance check

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

8.2 System Setup

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

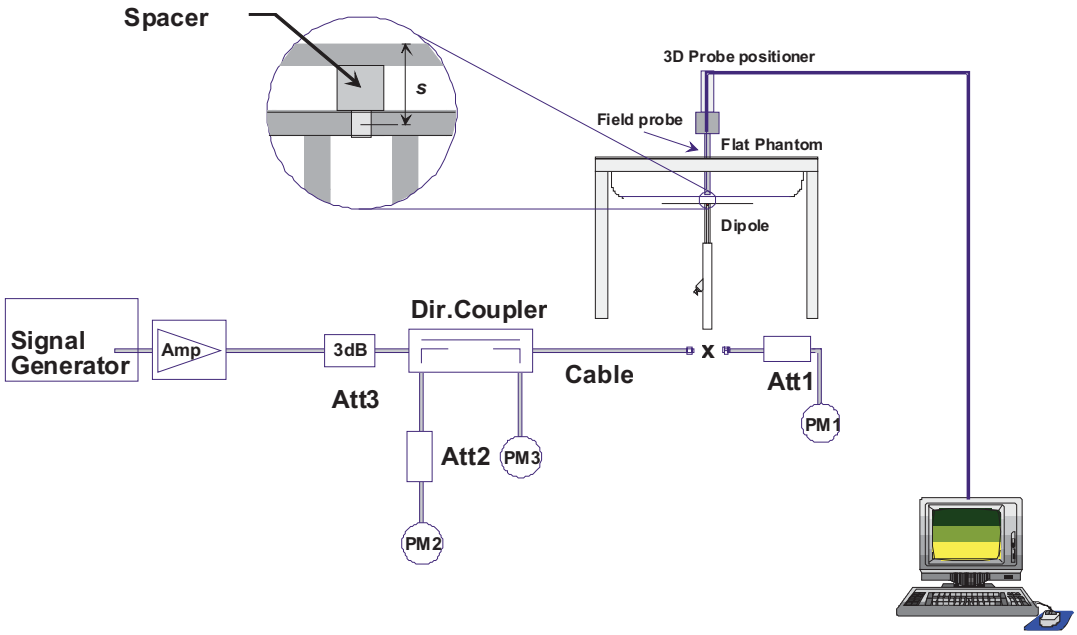


Fig 8.1 System Setup for System Evaluation

1. Signal Generator
2. Amplifier
3. Directional Coupler
4. Power Meter
5. Calibrated Dipole

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

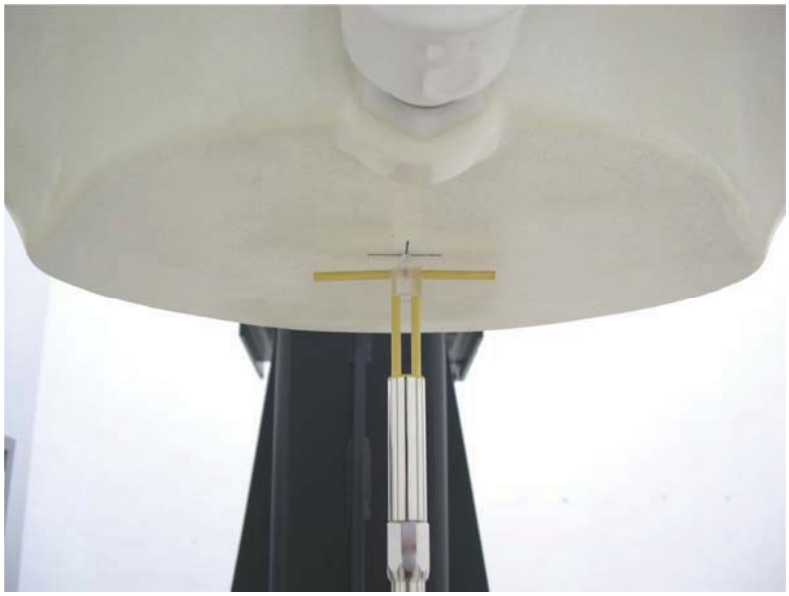


Fig 8.2 Photo of Dipole Setup

8.3 Validation Results

Comparing to the original SAR value provided by SPEAG, the validation data should be within its specification of 10 %. Table 8.1 shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance check can meet the variation criterion and the plots can be referred to Appendix A of this report.

Measurement Date	Frequency (MHz)	Liquid Type	Targeted SAR_{1g} (W/kg)	Measured SAR_{1g} (W/kg)	Normalized SAR_{1g} (W/kg)	Deviation (%)
May 02, 2012	835	Head	9.4	2.33	9.32	-0.85
May 10, 2012	835	Head	9.4	2.35	9.40	0.00
May 03, 2012	835	Body	9.42	2.29	9.16	-2.76
May 09, 2012	835	Body	9.42	2.38	9.52	1.06
May 10, 2012	835	Body	9.42	2.48	9.92	5.31
May 10, 2012	1900	Head	40.3	10.1	40.40	0.25
May 02, 2012	1900	Body	41.8	10.5	42.00	0.48
May 09, 2012	1900	Body	41.8	10.2	40.80	-2.39
May 03, 2012	2450	Head	54.8	13	52.00	-5.11
May 09, 2012	2450	Head	54.8	13.7	54.80	0.00
May 03, 2012	2450	Body	52.3	12.5	50.00	-4.40
May 09, 2012	2450	Body	52.3	13.1	52.40	0.19

Table 8.1 Target and Measurement SAR after Normalized

9. DUT Testing Position

This DUT was tested in ten different positions. They are right cheek, right tilted, left cheek, left tilted, Front of the DUT with phantom 1 cm gap, Back of the DUT with phantom 1 cm gap, Top Side of the DUT with phantom 1 cm gap, Bottom Side of the DUT with phantom 1 cm gap, Right Side of the DUT with phantom 1 cm gap, and Left Side of the DUT with phantom 1 cm gap, as illustrated below:

1. Define two imaginary lines on the handset

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

(b) The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output. The horizontal line is also tangential to the face of the handset at point A.

(c) The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily parallel to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.

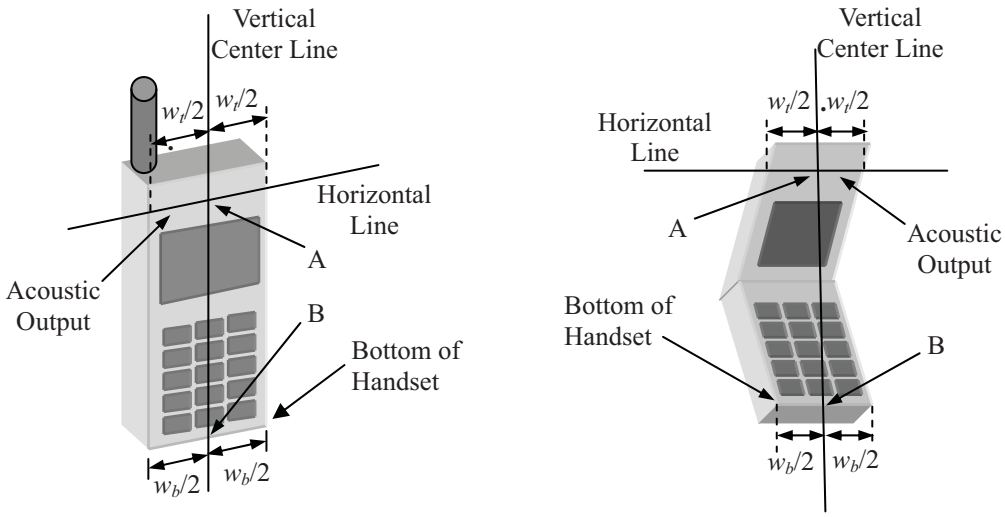


Fig 9.1 Illustration for Handset Vertical and Horizontal Reference Lines

2. Cheek Position

(a) To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the three ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE.

(b) To move the device towards the phantom with the ear piece aligned with the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost (see Fig. 9.2).

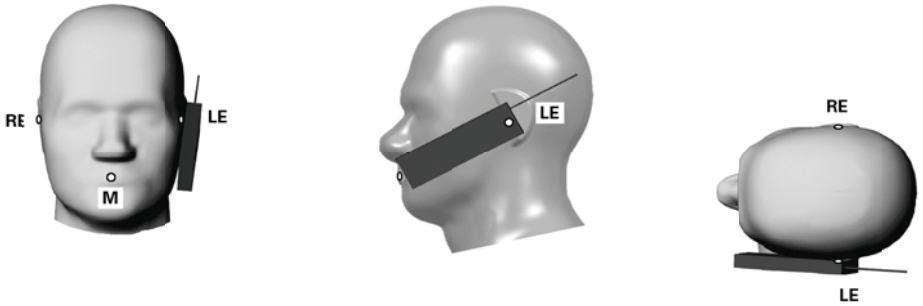


Fig 9.2 Illustration for Cheek Position

3. Tilted Position

(a) To position the device in the “cheek” position described above.

(b) While maintaining the device the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost (see Fig. 9.3).

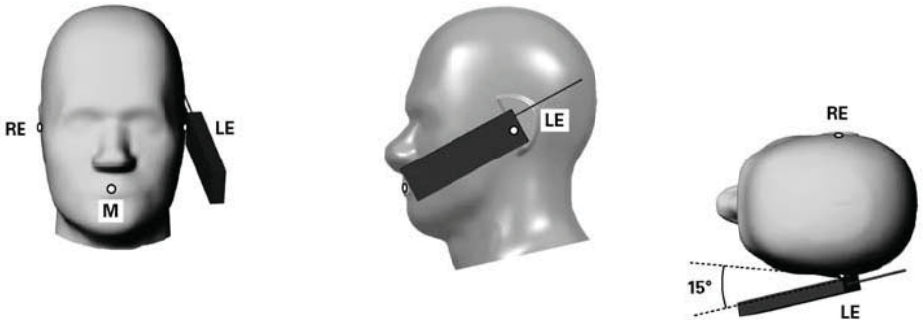


Fig 9.3 Illustration for Tilted Position

4. Body Worn Position

(a) To position the device parallel to the phantom surface with either keypad up or down.

(b) To adjust the device parallel to the flat phantom.

(c) To adjust the distance between the device surface and the flat phantom to 1 cm.

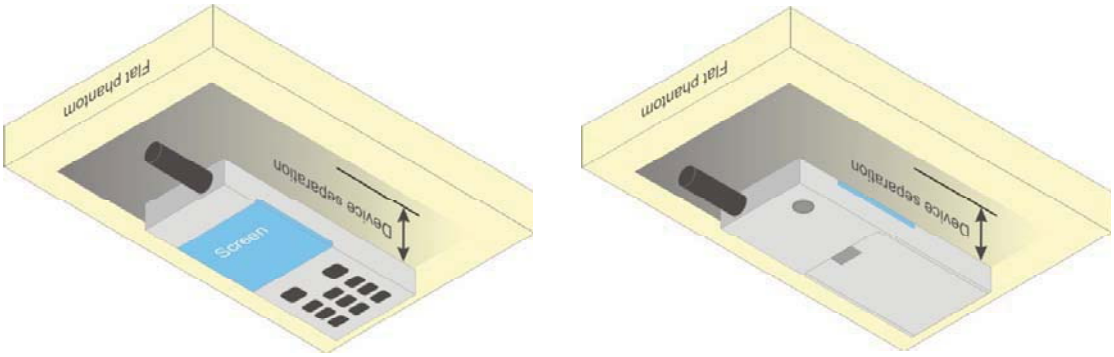


Fig 9.4 Illustration for Body Worn Position

<DUT Setup Photos>

Please refer to Appendix E for the test setup photos.

10. Measurement Procedures

The measurement procedures are as follows:

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

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

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

10.1 Spatial Peak SAR Evaluation

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

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

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

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

10.2 Area & Zoom Scan Procedures

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan measures 5x5x7 points with step size 8, 8 and 5 mm for 300 MHz to 3 GHz, and 8x8x8 points with step size 4, 4 and 2.5 mm for 3 GHz to 6 GHz. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g.

10.3 Volume Scan Procedures

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

10.4 SAR Averaged Methods

In DASY, the interpolation and extrapolation are both based on the modified Quadratic Shepard's method. The interpolation scheme combines a least-square fitted function method and a weighted average method which are the two basic types of computational interpolation and approximation.

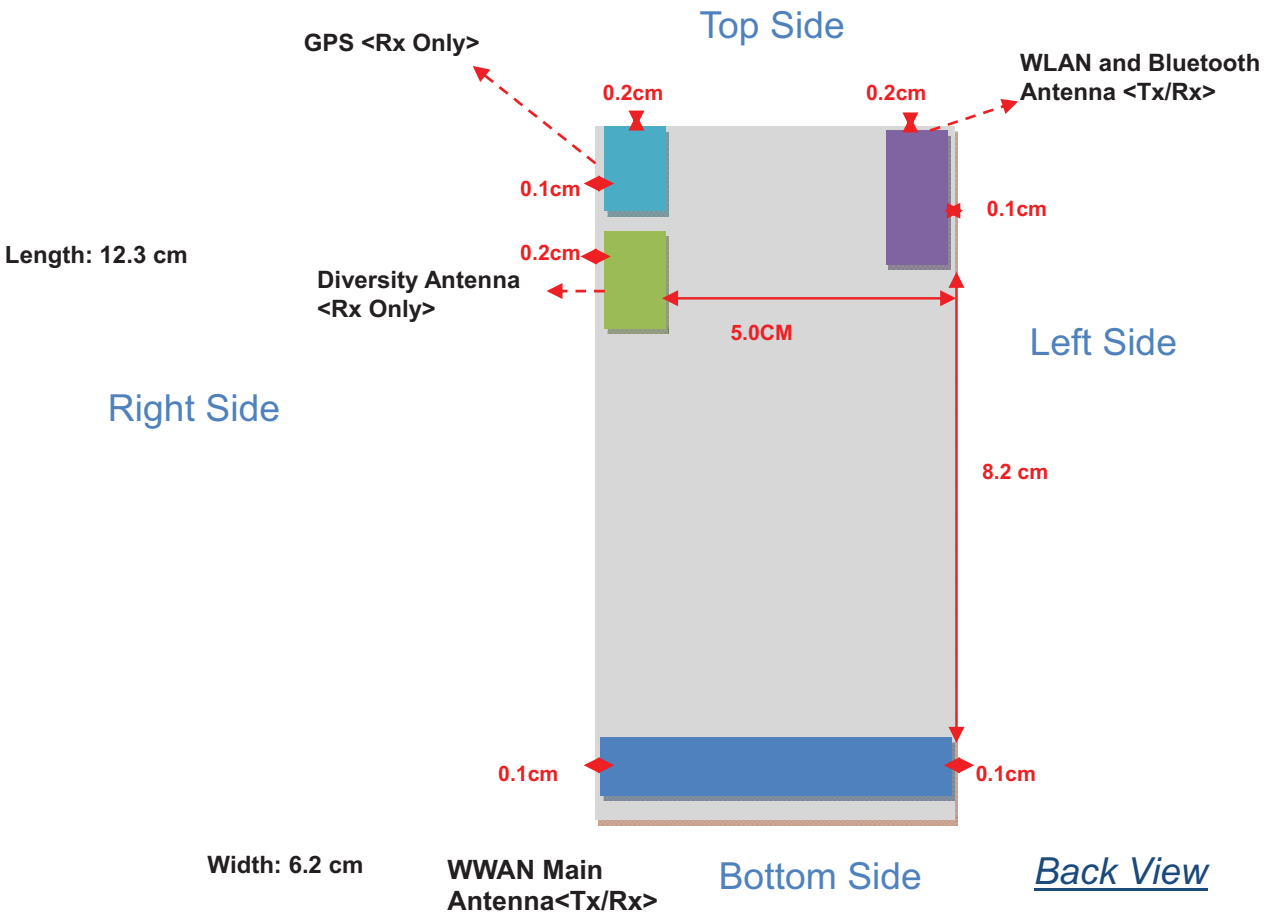
Extrapolation routines are used to obtain SAR values between the lowest measurement points and the inner phantom surface. The extrapolation distance is determined by the surface detection distance and the probe sensor offset. The uncertainty increases with the extrapolation distance. To keep the uncertainty within 1% for the 1 g and 10 g cubes, the extrapolation distance should not be larger than 5 mm.

10.5 Power Drift Monitoring

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

11. SAR Test Configurations

11.1 Exposure Positions Consideration



Antenna	Length	Width
WWAN Main Antenna (Tx / Rx)	6.0 cm	1.5 cm
WWAN Diversity ANT (Rx Only)	2.1 cm	1.0 cm
WLAN & Bluetooth Antenna (Tx / Rx)	2.3 cm	1.0 cm
GPS Antenna (Rx only)	2.6 cm	1.4 cm

Sides for SAR tests; Hotspot mode Test distance: 10 mm						
Band	Back	Front	Top Side	Bottom Side	Right Side	Left Side
GSM 850	✓	✓	X	✓	✓	✓
GSM 1900	✓	✓	X	✓	✓	✓
UMTS Band V	✓	✓	X	✓	✓	✓
UMTS Band II	✓	✓	X	✓	✓	✓
WLAN 11b/g/n 2.4GHz	✓	✓	✓	X	X	✓

Note: Referring to KDB 941225 D06, when the overall device length and width are ≥ 9cm*5cm, the test distance is10 mm. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge.

11.2 Conducted Power (Unit: dBm)

<GSM/GPRS/EDGE>

Burst Average Power						
Band	GSM850			GSM1900		
Channel	128	189	251	512	661	810
Frequency (MHz)	824.2	836.4	848.8	1850.2	1880.0	1909.8
GSM (1 Uplink)	32.38	32.30	32.20	29.46	30.18	29.98
GPRS 8 (1 Uplink) – CS1	32.36	32.29	32.19	29.45	30.17	29.97
GPRS 10 (2 Uplink) – CS1	31.33	31.27	31.20	28.15	28.17	28.16
EDGE 8 (GMSK, 1 Uplink) – MCS1	32.36	32.29	32.18	29.44	30.17	29.97
EDGE 10 (GMSK, 2 Uplink) – MCS1	31.32	31.27	31.16	28.14	28.16	28.15
EDGE 8 (8PSK, 1 Uplink) – MCS9	26.90	26.83	26.71	25.82	25.86	25.86
EDGE 10 (8PSK, 2 Uplink) – MCS9	25.84	25.79	25.69	24.76	24.75	24.73

Source-Based Time-Averaged Power						
Band	GSM850			GSM1900		
Channel	128	189	251	512	661	810
Frequency (MHz)	824.2	836.4	848.8	1850.2	1880.0	1909.8
GSM (1 Uplink)	23.38	23.30	23.20	20.46	21.18	20.98
GPRS 8 (1 Uplink) – CS1	23.36	23.29	23.19	20.45	21.17	20.97
GPRS 10 (2 Uplink) – CS1	25.33	25.27	25.20	22.15	22.17	22.16
EDGE 8 (GMSK, 1 Uplink) – MCS1	23.36	23.29	23.18	20.44	21.17	20.97
EDGE 10 (GMSK, 2 Uplink) – MCS1	25.32	25.27	25.16	22.14	22.16	22.15
EDGE 8 (8PSK, 1 Uplink) – MCS9	17.90	17.83	17.71	16.82	16.86	16.86
EDGE 10 (8PSK, 2 Uplink) – MCS9	19.84	19.79	19.69	18.76	18.75	18.73

Remark: The source-based time-averaged power is linearly scaled the maximum burst averaged power based on time slots. The calculated method are shown as below:
Source based time averaged power = Maximum burst averaged power (1 Uplink) - 9 dB
Source based time averaged power = Maximum burst averaged power (2 Uplink) - 6 dB

Note:

1. For Head SAR testing, GPRS should be evaluated, therefore the DUT was set in GPRS 10 for GSM850 and set in GPRS 10 for GSM1900 due to its highest source-based time-average power.
2. For Body-worn SAR testing, GPRS should be evaluated, therefore the DUT was set in GPRS 10 for GSM850 and set in GPRS 10 for GSM1900 due to its highest source-based time-average power.
3. Per KDB 447498, the maximum output power channel is used for SAR testing and for further SAR test reduction.
4. EDGE tests with MCS1 setting, GMSK modulation. Burst average power with MCS9 setting 8 PSK modulation, is provided voluntary for reference.
5. The DUT do not support DTM function.

<WCDMA/HSDPA>

Band	WCDMA Band V			WCDMA Band II		
Channel	4132	4182	4233	9262	9400	9538
Frequency (MHz)	826.4	836.4	846.6	1852.4	1880.0	1907.6
AMR	23.25	23.18	23.21	23.14	23.05	23.04
RMC 12.2K	23.26	23.19	23.21	23.18	23.05	22.97
HSDPA Subtest-1	23.06	23.16	23.08	22.76	22.69	22.86
HSDPA Subtest-2	22.96	23.08	23.00	22.71	22.64	22.79
HSDPA Subtest-3	22.53	22.53	22.59	22.31	22.31	22.43
HSDPA Subtest-4	22.51	22.56	22.56	22.39	22.25	22.50

MPR							
3GPP Requirement	Band	WCDMA band V			WCDMA band II		
0	HSDPA Subtest-1	0.00	0.00	0.00	0.00	0.00	0.00
0	HSDPA Subtest-2	0.10	0.08	0.08	0.05	0.05	0.07
0.5	HSDPA Subtest-3	0.53	0.63	0.49	0.45	0.38	0.43
0.5	HSDPA Subtest-4	0.55	0.60	0.52	0.37	0.44	0.36

Note:

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

<WLAN>

Mode	Channel	Frequency (MHz)	Average power (dBm)			
			Data Rate (bps)			
			1M	2M	5.5M	11M
802.11b	CH 01	2412 MHz	13.88	13.85	13.60	13.84
	CH 06	2437 MHz	13.60	13.40	13.45	13.65
	CH 11	2462 MHz	13.13	13.07	12.97	13.17

Mode	Channel	Frequency (MHz)	Average power (dBm)							
			Data Rate (bps)							
			6M	9M	12M	18M	24M	36M	48M	54M
802.11g	CH 01	2412 MHz	11.81	11.43	11.56	11.72	11.78	11.42	11.75	11.49
	CH 06	2437 MHz	10.91	10.83	10.82	10.84	10.90	11.15	10.98	10.86
	CH 11	2462 MHz	9.87	9.81	9.84	9.31	9.47	9.27	9.40	9.38

Mode	Channel	Frequency (MHz)	Average power (dBm)							
			Data Rate (bps)							
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11n 20M	CH 01	2412 MHz	8.75	8.42	8.63	8.71	8.75	8.65	8.61	8.60
	CH 06	2437 MHz	8.37	8.22	8.16	8.34	8.31	8.27	8.28	8.26
	CH 11	2462 MHz	7.70	7.61	7.56	7.77	7.66	7.67	7.53	7.52

Note: Per KDB 248227, 11g and 11n output power is less than 1/4 dB higher than 11b mode, thus the SAR can be excluded. For each frequency band, testing at higher data rates and higher order modulations is not required when the maximum average output power for each of these configurations is less than 1/4 dB higher than those measured at the lowest data rate.

	Channel	Frequency (MHz)	Average power (dBm)								
			Data Rate								
			DH1	DH3	DH5	2DH1	2DH3	2DH5	3DH1	3DH3	3DH5
Bluetooth	CH 00	2402 MHz	4.75	5.93	5.88	2.59	2.75	2.73	2.64	2.86	2.78
	CH 39	2441 MHz	6.30	6.27	6.34	3.88	4.13	4.15	3.99	4.21	4.18
	CH 78	2480 MHz	5.82	5.91	5.86	3.60	3.80	3.75	3.62	3.86	3.74

Note: Bluetooth standalone SAR is not required because the Bluetooth highest average power (6.34 dBm) is less than 60/f.

12. SAR Test Results

12.1 Test Records for Head SAR Test

<GPRS / WCDMA>

Plot No.	Band	Mode	Test Position	Ch.	Battery	Tune-Up Power Limit	Output Power (dBm)	SAR_{1g} (W/kg)	Scaling Factor	Scaled 1g SAR
68	**GSM850**	**GPRS10**	**Right Cheek**	**128**	**#1**	**31.7**	**31.33**	**0.355**	**1.09**	**0.387**
69	GSM850	GPRS10	Right Tilted	128	#1	31.7	31.33	0.279	1.09	0.304
70	GSM850	GPRS10	Left Cheek	128	#1	31.7	31.33	0.33	1.09	0.359
71	GSM850	GPRS10	Left Tilted	128	#1	31.7	31.33	0.265	1.09	0.289
72	GSM850	GPRS10	Right Cheek	128	#2	31.7	31.33	0.354	1.09	0.385
73	GSM850	GPRS10	Right Cheek	128	#3	31.7	31.33	0.355	1.09	0.387
1	GSM1900	GPRS10	Right Cheek	661	#1	30	28.17	0.25	1.52	0.381
2	GSM1900	GPRS10	Right Tilted	661	#1	30	28.17	0.047	1.52	0.072
3	GSM1900	GPRS10	Left Cheek	661	#1	30	28.17	0.224	1.52	0.341
4	GSM1900	GPRS10	Left Tilted	661	#1	30	28.17	0.071	1.52	0.108
5	GSM1900	GPRS10	Right Cheek	661	#2	30	28.17	0.26	1.52	0.396
6	**GSM1900**	**GPRS10**	**Right Cheek**	**661**	**#3**	**30**	**28.17**	**0.261**	**1.52**	**0.398**

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

<WCDMA>

Plot No.	Band	Mode	Test Position	Ch.	Battery	Tune-Up Power Limit	Output Power (dBm)	SAR_{1g} (W/kg)	Scaling Factor	Scaled 1g SAR
35	**WCDMA V**	**RMC 12.2K**	**Right Cheek**	**4132**	**#1**	**25**	**23.26**	**0.244**	**1.49**	**0.364**
36	WCDMA V	RMC 12.2K	Right Tilted	4132	#1	25	23.26	0.182	1.49	0.272
37	WCDMA V	RMC 12.2K	Left Cheek	4132	#1	25	23.26	0.207	1.49	0.309
38	WCDMA V	RMC 12.2K	Left Tilted	4132	#1	25	23.26	0.17	1.49	0.254
39	WCDMA V	RMC 12.2K	Right Cheek	4132	#2	25	23.26	0.237	1.49	0.354
40	WCDMA V	RMC 12.2K	Right Cheek	4132	#3	25	23.26	0.234	1.49	0.349
7	WCDMA II	RMC 12.2K	Right Cheek	9262	#1	24	23.18	0.383	1.21	0.463
8	WCDMA II	RMC 12.2K	Right Tilted	9262	#1	24	23.18	0.089	1.21	0.107
9	WCDMA II	RMC 12.2K	Left Cheek	9262	#1	24	23.18	0.322	1.21	0.389
10	WCDMA II	RMC 12.2K	Left Tilted	9262	#1	24	23.18	0.117	1.21	0.141
11	**WCDMA II**	**RMC 12.2K**	**Right Cheek**	**9262**	**#2**	**24**	**23.18**	**0.401**	**1.21**	**0.484**
12	WCDMA II	RMC 12.2K	Right Cheek	9262	#3	24	23.18	0.373	1.21	0.451

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

<WLAN>

Plot No.	Band	Test Position	Ch.	Battery	Data Rate	Output Power (dBm)	SAR_{1g} (W/kg)
60	802.11b	Right Cheek	1	#1	1M	13.88	0.118
61	802.11b	Right Tilted	1	#1	1M	13.88	0.109
62	802.11b	Left Cheek	1	#1	1M	13.88	0.106
63	**802.11b**	**Left Tilted**	**1**	**#1**	**1M**	**13.88**	**0.128**
64	802.11b	Left Tilted	1	#2	1M	13.88	0.122
65	802.11b	Left Tilted	1	#3	1M	13.88	0.124

Note: Per KDB 648474, if the highest output channel SAR for each exposure position ≤ 0.8 W/kg other channels SAR tests are not necessary.

12.2 Test Records for Hotspot SAR Test

<GPRS >

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Battery	Ear-phone	Tune-Up Power Limit	Output Power (dBm)	SAR_{1g} (W/kg)	Scaling Factor	Scaled 1g SAR
74	GSM850	GPRS10	Front	1	128	#1	-	31.7	31.33	0.489	1.09	0.532
75	GSM850	GPRS10	Back	1	128	#1	-	31.7	31.33	1	1.09	1.089
76	GSM850	GPRS10	Left Side	1	128	#1	-	31.7	31.33	0.469	1.09	0.511
77	GSM850	GPRS10	Right Side	1	128	#1	-	31.7	31.33	0.685	1.09	0.746
78	GSM850	GPRS10	Bottom Side	1	128	#1	-	31.7	31.33	0.074	1.09	0.081
79	GSM850	GPRS10	Back	1	189	#1	-	31.7	31.27	1.2	1.10	1.325
80	GSM850	GPRS10	Back	1	251	#1	-	31.7	31.2	1.17	1.12	1.313
81	GSM850	GPRS10	Back	1	189	#2	-	31.7	31.27	1.19	1.10	1.314
82	**GSM850**	**GPRS10**	**Back**	**1**	**189**	**#3**	**-**	**31.7**	**31.27**	**1.24**	**1.10**	**1.369**
25	GSM1900	GPRS10	Front	1	661	#1	-	30	28.17	0.289	1.52	0.440
26	**GSM1900**	**GPRS10**	**Back**	**1**	**661**	**#1**	**-**	**30**	**28.17**	**0.637**	**1.52**	**0.971**
27	GSM1900	GPRS10	Left Side	1	661	#1	-	30	28.17	0.099	1.52	0.151
28	GSM1900	GPRS10	Right Side	1	661	#1	-	30	28.17	0.099	1.52	0.151
29	GSM1900	GPRS10	Bottom Side	1	661	#1	-	30	28.17	0.375	1.52	0.572
32	GSM1900	GPRS10	Back	1	661	#2	-	30	28.17	0.607	1.52	0.925
33	GSM1900	GPRS10	Back	1	661	#3	-	30	28.17	0.585	1.52	0.892

Note:

1. Per KDB 941225 D06, for DUT dimension ≥ 9cm*5cm, the test distance is 1cm. SAR must be measured for all surfaces and sides with a transmitting antenna located within 2.5cm from that surface or edge.
2. As in (1), SAR for Front/Back/Bottom Side/Left Side/Right Side is necessary.
3. Per KDB 447498, if the highest output channel SAR for each exposure position ≤ 0.8 W/kg other channels SAR tests are not necessary.

<WCDMA>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Battery	Ear-phone	Tune-Up Power Limit	Output Power (dBm)	SAR_{1g} (W/kg)	Scaling Factor	Scaled 1g SAR
41	WCDMA V	RMC 12.2K	Front	1	4132	#1	-	25	23.26	0.348	1.49	0.519
42	**WCDMA V**	**RMC 12.2K**	**Back**	**1**	**4132**	**#1**	**-**	**25**	**23.26**	**0.725**	**1.49**	**1.082**
43	WCDMA V	RMC 12.2K	Left Side	1	4132	#1	-	25	23.26	0.383	1.49	0.572
44	WCDMA V	RMC 12.2K	Right Side	1	4132	#1	-	25	23.26	0.547	1.49	0.817
45	WCDMA V	RMC 12.2K	Bottom Side	1	4132	#1	-	25	23.26	0.051	1.49	0.076
48	WCDMA V	RMC 12.2K	Back	1	4132	#2	-	25	23.26	0.689	1.49	1.029
49	WCDMA V	RMC 12.2K	Back	1	4132	#3	-	25	23.26	0.706	1.49	1.054
13	WCDMA II	RMC 12.2K	Front	1	9262	#1	-	24	23.18	0.478	1.21	0.577
14	WCDMA II	RMC 12.2K	Back	1	9262	#1	-	24	23.18	0.932	1.21	1.126
15	WCDMA II	RMC 12.2K	Left Side	1	9262	#1	-	24	23.18	0.172	1.21	0.208
16	WCDMA II	RMC 12.2K	Right Side	1	9262	#1	-	24	23.18	0.175	1.21	0.211
17	WCDMA II	RMC 12.2K	Bottom Side	1	9262	#1	-	24	23.18	0.616	1.21	0.744
18	**WCDMA II**	**RMC 12.2K**	**Back**	**1**	**9400**	**#1**	**-**	**24**	**23.05**	**1.01**	**1.24**	**1.257**
19	WCDMA II	RMC 12.2K	Back	1	9538	#1	-	24	22.97	0.937	1.27	1.188
22	WCDMA II	RMC 12.2K	Back	1	9400	#2	-	24	23.05	0.93	1.24	1.157
23	WCDMA II	RMC 12.2K	Back	1	9400	#3	-	24	23.05	0.929	1.24	1.156

Note:

1. Per KDB 941225 D06, for DUT dimension ≥ 9cm*5cm, the test distance is 1cm. SAR must be measured for all surfaces and sides with a transmitting antenna located within 2.5cm from that surface or edge.
2. As in (1), SAR for Front/Back /Bottom Side/Left Side/Right Side is necessary.
3. Per KDB 447498, if the highest output channel SAR for each exposure position ≤ 0.8 W/kg other channels SAR tests are not necessary.

<WLAN>

Plot No.	Band	Test Position	Gap (cm)	Ch.	Battery	Ear-phone	Data Rate	Output Power (dBm)	SAR_{1g} (W/kg)
51	802.11b	Front	1	1	#1	-	1M	13.88	0.033
52	**802.11b**	**Back**	**1**	**1**	**#1**	**-**	**1M**	**13.88**	**0.099**
53	802.11b	Left Side	1	1	#1	-	1M	13.88	0.065
54	802.11b	Top Side	1	1	#1	-	1M	13.88	0.053
57	802.11b	Back	1	1	#2	-	1M	13.88	0.089
58	802.11b	Back	1	1	#3	-	1M	13.88	0.066

Note:

1. Per KDB 941225 D06, for DUT dimension ≥ 9cm*5cm, the test distance is 1cm. SAR must be measured for all surfaces and sides with a transmitting antenna located within 2.5cm from that surface or edge.
2. As in (1), SAR for Front/Back/Top Side/Left Side is necessary.
3. Per KDB 648474, if the highest output channel SAR for each exposure position ≤ 0.8 W/kg other channels SAR tests are not necessary.

12.3 Test Records for Body-worn SAR Test

<GSM>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Battery	Ear-phone	Tune-Up Power Limit	Output Power (dBm)	SAR_{1g} (W/kg)	Scaling Factor	Scaled 1g SAR
74	GSM850	GPRS10	Front	1	128	#1	-	31.7	31.33	0.489	1.09	0.532
75	GSM850	GPRS10	Back	1	128	#1	-	31.7	31.33	1	1.09	1.089
79	GSM850	GPRS10	Back	1	189	#1	-	31.7	31.27	1.2	1.10	1.325
80	GSM850	GPRS10	Back	1	251	#1	-	31.7	31.2	1.17	1.12	1.313
81	GSM850	GPRS10	Back	1	189	#2	-	31.7	31.27	1.19	1.10	1.314
82	**GSM850**	**GPRS10**	**Back**	**1**	**189**	**#3**	**-**	**31.7**	**31.27**	**1.24**	**1.10**	**1.369**
84	GSM850	GPRS10	Back	1	189	#3	#1	31.7	31.27	0.852	1.10	0.941
85	GSM850	GPRS10	Back	1	128	#3	#1	31.7	31.33	0.634	1.09	0.690
86	GSM850	GPRS10	Back	1	251	#3	#1	31.7	31.2	0.981	1.12	1.101
87	GSM850	GPRS10	Back	1	251	#3	#2	31.7	21.2	0.925	1.12	1.038
88	GSM850	GPRS10	Back	1	128	#3	#2	31.7	21.2	0.752	1.09	0.819
89	GSM850	GPRS10	Back	1	189	#3	#2	31.7	21.2	0.931	1.10	1.028
25	GSM1900	GPRS10	Front	1	661	#1	-	30	28.17	0.289	1.52	0.440
26	**GSM1900**	**GPRS10**	**Back**	**1**	**661**	**#1**	**-**	**30**	**28.17**	**0.637**	**1.52**	**0.971**
32	GSM1900	GPRS10	Back	1	661	#2	-	30	28.17	0.607	1.52	0.925
33	GSM1900	GPRS10	Back	1	661	#3	-	30	28.17	0.585	1.52	0.892
31	GSM1900	GPRS10	Back	1	661	#1	#1	30	28.17	0.615	1.52	0.937
34	GSM1900	GPRS10	Back	1	661	#1	#2	30	28.17	0.632	1.52	0.963

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

<WCDMA>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Battery	Ear-phone	Tune-Up Power Limit	Output Power (dBm)	SAR_{1g} (W/kg)	Scaling Factor	Scaled 1g SAR
41	WCDMA V	RMC 12.2K	Front	1	4132	#1	-	25	23.26	0.348	1.49	0.519
42	**WCDMA V**	**RMC 12.2K**	**Back**	**1**	**4132**	**#1**	**-**	**25**	**23.26**	**0.725**	**1.49**	**1.082**
48	WCDMA V	RMC 12.2K	Back	1	4132	#2	-	25	23.26	0.689	1.49	1.029
49	WCDMA V	RMC 12.2K	Back	1	4132	#3	-	25	23.26	0.706	1.49	1.054
47	WCDMA V	RMC 12.2K	Back	1	4132	#1	#1	25	23.26	0.517	1.49	0.772
50	WCDMA V	RMC 12.2K	Back	1	4132	#1	#2	25	23.26	0.458	1.49	0.684
13	WCDMA II	RMC 12.2K	Front	1	9262	#1	-	24	23.18	0.478	1.21	0.577
14	WCDMA II	RMC 12.2K	Back	1	9262	#1	-	24	23.18	0.932	1.21	1.126
18	WCDMA II	RMC 12.2K	Back	1	9400	#1	-	24	23.05	1.01	1.24	1.257
19	WCDMA II	RMC 12.2K	Back	1	9538	#1	-	24	22.97	0.937	1.27	1.188
22	WCDMA II	RMC 12.2K	Back	1	9400	#2	-	24	23.05	0.93	1.24	1.157
23	WCDMA II	RMC 12.2K	Back	1	9400	#3	-	24	23.05	0.929	1.24	1.156
21	**WCDMA II**	**RMC 12.2K**	**Back**	**1**	**9400**	**#1**	**#1**	**24**	**23.05**	**1.11**	**1.24**	**1.381**
66	WCDMA II	RMC 12.2K	Back	1	9262	#1	#1	24	23.18	0.926	1.21	1.118
67	WCDMA II	RMC 12.2K	Back	1	9538	#1	#1	24	22.97	0.967	1.27	1.226
24	WCDMA II	RMC 12.2K	Back	1	9400	#1	#2	24	23.05	1.08	1.24	1.344
90	WCDMA II	RMC 12.2K	Back	1	9262	#1	#2	24	23.05	1.05	1.24	1.307
91	WCDMA II	RMC 12.2K	Back	1	9538	#1	#2	24	23.05	1.05	1.24	1.307

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

<WLAN>

Plot No.	Band	Test Position	Gap (cm)	Ch.	Battery	Ear-phone	Data Rate	Output Power (dBm)	SAR_{1g} (W/kg)
51	802.11b	Front	1	1	#1	-	1M	13.88	0.033
52	802.11b	Back	1	1	#1	-	1M	13.88	0.099
57	802.11b	Back	1	1	#2	-	1M	13.88	0.089
58	802.11b	Back	1	1	#3	-	1M	13.88	0.066
56	**802.11b**	**Back**	**1**	**1**	**#1**	**#1**	**1M**	**13.88**	**0.14**
59	802.11b	Back	1	1	#1	#2	1M	13.88	0.138

Note: Per KDB 648474, if the highest output channel SAR for each exposure position ≤ 0.8 W/kg other channels SAR tests are not necessary.

12.4 Simultaneous Multi-band Transmission Analysis

	Applicable Combination
Simultaneous Transmission	WWAN+WLAN
	WWAN+BT

Note:

1. WLAN and BT share the same antenna, thus they cannot transmit simultaneously.
2. Per KDB KDB 648474 D01, Bluetooth (6.34 dBm) output power ≤ 2Pref and the distance to other antennas ≥ 5cm, therefore, stand-alone SAR is not required; the simultaneous transmission SAR for WWAN and Bluetooth were not required, because Bluetooth standalone SAR is not required and the maximum WWAN SAR (1.24 W/kg), so the SAR summation is less than 1.6 W/kg.
3. The GPRS/EDGE and WCDMA share the same WWAN transmitting antenna, and GPRS/EDGE will not transmit simultaneously with WCDMA.
4. According to KDB 648474, the simultaneous transmission SAR for WWAN and WLAN was not required, because the max. SAR summation are less than 1.6 W/kg.

<Maximum SAR list for each band and position (Head SAR)>

	WWAN						WLAN 2.4G		
Position	WWAN Band	Max. WWAN SAR (W/kg)	Output Power (dBm)	Max. Tolerance Power (dBm)	Scaling Factor	Scaled WWAN (W/kg)	Max. WLAN SAR (W/kg)	Max. SAR Summation	Scaled WWAN + WLAN
Right Cheek	GSM850	0.355	31.33	31.7	1.09	0.387	0.118	**0.47**	0.51
	GSM1900	0.261	28.17	30	1.52	0.398	0.118	**0.38**	0.52
	WCDMA V	0.244	23.26	25	1.49	0.364	0.118	**0.36**	0.48
	WCDMA II	0.401	23.18	24	1.21	0.484	0.118	**0.52**	0.60
Right Tilted	GSM850	0.279	31.33	31.7	1.09	0.304	0.109	**0.39**	0.41
	GSM1900	0.047	28.17	30	1.52	0.072	0.109	**0.16**	0.18
	WCDMA V	0.182	23.26	25	1.49	0.272	0.109	**0.29**	0.38
	WCDMA II	0.089	23.18	24	1.21	0.107	0.109	**0.20**	0.22
Left Cheek	GSM850	0.33	31.33	31.7	1.09	0.359	0.106	**0.44**	0.47
	GSM1900	0.224	28.17	30	1.52	0.341	0.106	**0.33**	0.45
	WCDMA V	0.207	23.26	25	1.49	0.309	0.106	**0.31**	0.42
	WCDMA II	0.322	23.18	24	1.21	0.389	0.106	**0.43**	0.50
Left Tilted	GSM850	0.265	31.33	31.7	1.09	0.289	0.128	**0.39**	0.42
	GSM1900	0.071	28.17	30	1.52	0.108	0.128	**0.20**	0.24
	WCDMA V	0.17	23.26	25	1.49	0.254	0.128	**0.30**	0.38
	WCDMA II	0.117	23.18	24	1.21	0.141	0.128	**0.25**	0.27

<Maximum SAR list for each band and position (Hotspot SAR)>

	WWAN						WLAN 2.4G		
Position	WWAN Band	Max. WWAN SAR (W/kg)	Output Power (dBm)	Max. Tolerance Power (dBm)	Scaling Factor	Scaled WWAN (W/kg)	Max. WLAN SAR (W/kg)	Max. SAR Summation	Scaled WWAN + WLAN
Front	GSM850	0.489	31.33	31.7	1.09	0.532	0.033	**0.52**	0.57
	GSM1900	0.289	28.17	30	1.52	0.440	0.033	**0.32**	0.47
	WCDMA V	0.348	23.26	25	1.49	0.519	0.033	**0.38**	0.55
	WCDMA II	0.478	23.18	24	1.21	0.577	0.033	**0.51**	0.61
Back	GSM850	1.24	31.27	31.7	1.10	1.369	0.099	**1.34**	1.47
	GSM1900	0.637	28.17	30	1.52	0.971	0.099	**0.74**	1.07
	WCDMA V	0.725	23.26	25	1.49	1.082	0.099	**0.82**	1.18
	WCDMA II	1.11	23.18	24	1.21	1.341	0.099	**1.21**	1.44
Left Side	GSM850	0.469	31.33	31.7	1.09	0.511	0.065	**0.53**	0.58
	GSM1900	0.099	28.17	30	1.52	0.151	0.065	**0.16**	0.22
	WCDMA V	0.383	23.26	25	1.49	0.572	0.065	**0.45**	0.64
	WCDMA II	0.172	23.18	24	1.21	0.208	0.065	**0.24**	0.27
Right Side	GSM850	0.685	31.33	31.7	1.09	0.746	0	**0.69**	0.75
	GSM1900	0.099	28.17	30	1.52	0.151	0	**0.10**	0.15
	WCDMA V	0.547	23.26	25	1.49	0.817	0	**0.55**	0.82
	WCDMA II	0.175	23.18	24	1.21	0.211	0	**0.18**	0.21
Top Side	GSM850	0	-	-	-	0	0.053	**0.05**	0.05
	GSM1900	0	-	-	-	0	0.053	**0.05**	0.05
	WCDMA V	0	-	-	-	0	0.053	**0.05**	0.05
	WCDMA II	0	-	-	-	0	0.053	**0.05**	0.05
Bottom Side	GSM850	0.074	31.33	31.7	1.09	0.081	0	**0.07**	0.08
	GSM1900	0.375	28.17	30	1.52	0.572	0	**0.38**	0.57
	WCDMA V	0.051	23.26	25	1.49	0.076	0	**0.05**	0.08
	WCDMA II	0.616	23.18	24	1.21	0.744	0	**0.62**	0.74

<Maximum SAR list for each band and position (Body-worn SAR)>

	WWAN						WLAN 2.4G		
Position	WWAN Band	Max. WWAN SAR (W/kg)	Output Power (dBm)	Max. Tolerance Power (dBm)	Scaling Factor	Scaled WWAN (W/kg)	Max. WLAN SAR (W/kg)	Max. SAR Summation	Scaled WWAN + WLAN
Front	GSM850	0.489	31.33	31.7	1.09	0.532	0.033	**0.52**	0.57
	GSM1900	0.289	28.17	30	1.52	0.440	0.033	**0.32**	0.47
	WCDMA V	0.348	23.26	25	1.49	0.519	0.033	**0.38**	0.55
	WCDMA II	0.478	23.18	24	1.21	0.577	0.033	**0.51**	0.61
Back	GSM850	1.24	31.27	31.7	1.10	1.369	0.099	**1.34**	1.47
	GSM1900	0.637	28.17	30	1.52	0.971	0.099	**0.74**	1.07
	WCDMA V	0.725	23.26	25	1.49	1.082	0.099	**0.82**	1.18
	WCDMA II	1.11	23.18	24	1.21	1.341	0.099	**1.21**	1.44
Back (w/ earphone)	GSM850	0.981	31.2	31.7	1.12	1.101	0.14	**1.12**	1.24
	GSM1900	0.632	28.17	30	1.52	0.963	0.14	**0.77**	1.10
	WCDMA V	0.517	23.26	25	1.49	0.772	0.14	**0.66**	0.91
	WCDMA II	1.11	23.05	24	1.24	1.381	0.14	**1.25**	1.52

Note:

1 The maximum SAR summation is calculated based on the same configuration and test position.
2 For 1g-SAR scalar summation < 1.6W/kg, simultaneous SAR measurement is not necessary.
3 If 1g-SAR summation >1.6W/kg, SPLSR calculation is necessary.
4 The WWAN scaling factor is calculated according to the difference between measured output power and maximum tolerance power on this device

Test Engineer : Jeme Lee

13. References

[1] FCC 47 CFR Part 2 “Frequency Allocations and Radio Treaty Matters; General Rules and Regulations”

[2] ANSI/IEEE Std. C95.1-1992, “IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz”, September 1992

[3] IEEE Std. 1528-2003, “Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques”, December 2003

[4] IEEE Std 1528a-2005, "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques. Amendment 1: CAD File for Human Head Model (SAM Phantom)", 2005

[5] FCC OET Bulletin 65 (Edition 97-01) Supplement C (Edition 01-01), “Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields”, June 2001

[6] SPEAG DASY System Handbook

[7] FCC KDB 248227 D01 v01r02, “SAR Measurement Procedures for 802.11 a/b/g Transmitters”, May 2007

[8] FCC KDB 447498 D01 v04, “Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies”, November 2009

[9] FCC KDB 648474 D01 v01r05, “SAR Evaluation Considerations for Handsets with Multiple Transmitters and Antennas”, September 2008

[10] FCC KDB 941225 D01 v02, “SAR Measurement Procedures for 3G Devices – CDMA 2000 / Ev-Do / WCDMA / HSDPA / HSPA”, October 2007

[11] FCC KDB 941225 D02 v02 "3GPP R6 HSPA and R7 HSPA+ SAR Guidance", December 2009.

[12] FCC KDB 941225 D03 v01, “Recommended SAR Test Reduction Procedures for GSM / GPRS / EDGE”, December 2008

[13] FCC KDB 941225 D04 v01, “Evaluating SAR for GSM/(E)GPRS Dual Transfer Mode”, January 27 2010

[14] FCC KDB 941225 D06 v01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", April 2011

[15] FCC KDB 388624 D02, "Permit But Ask List", April 2011.

Appendix A. Plots of System Performance Check

The plots are shown as follows.

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 02.05.2012

System Check_Head_835MHz_120502

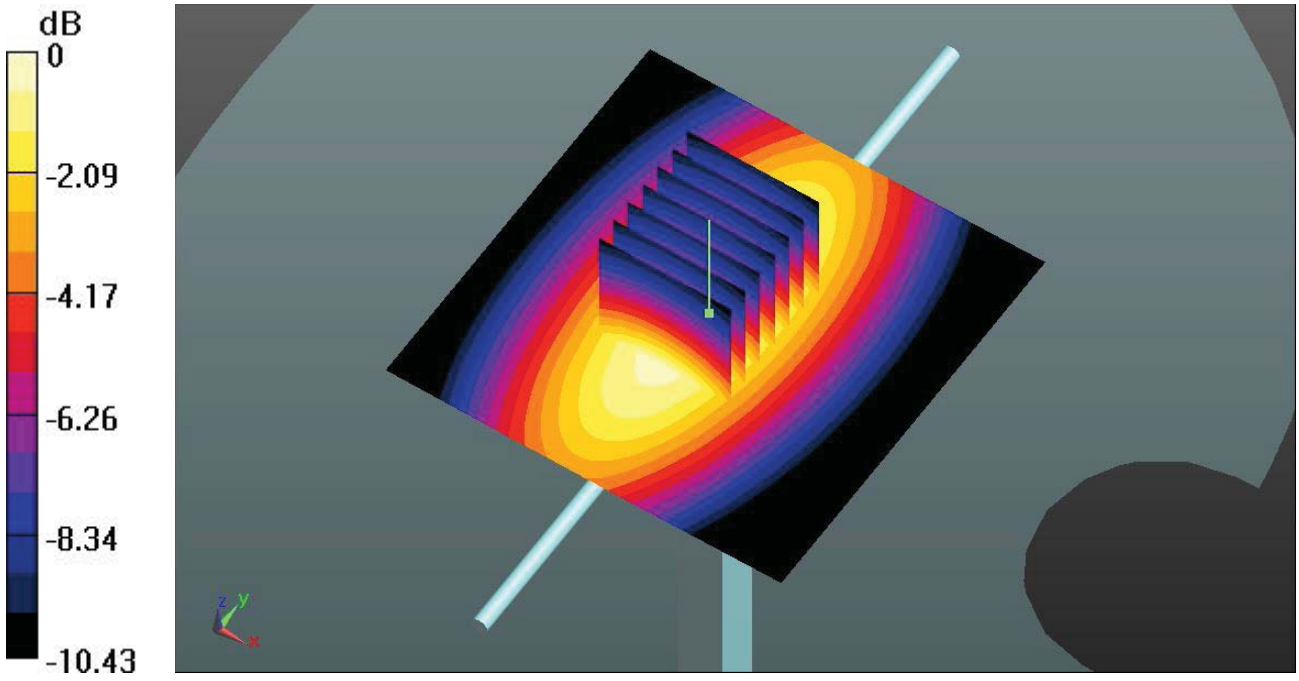
DUT: D835V2 - SN: 4d091

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium: HSL_835_120502 Medium parameters used: f = 835 MHz; σ = 0.897 mho/m; ε_r = 40.781; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃; Liquid Temperature：21.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(9.4, 9.4, 9.4); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Pin=250mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 2.501 mW/g

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 52.711 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 3.5070
SAR(1 g) = 2.33 mW/g; SAR(10 g) = 1.52 mW/g
Maximum value of SAR (measured) = 2.505 mW/g



0 dB = 2.510mW/g = 7.99 dB mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 10.05.2012

System Check_Head_835MHz_120510

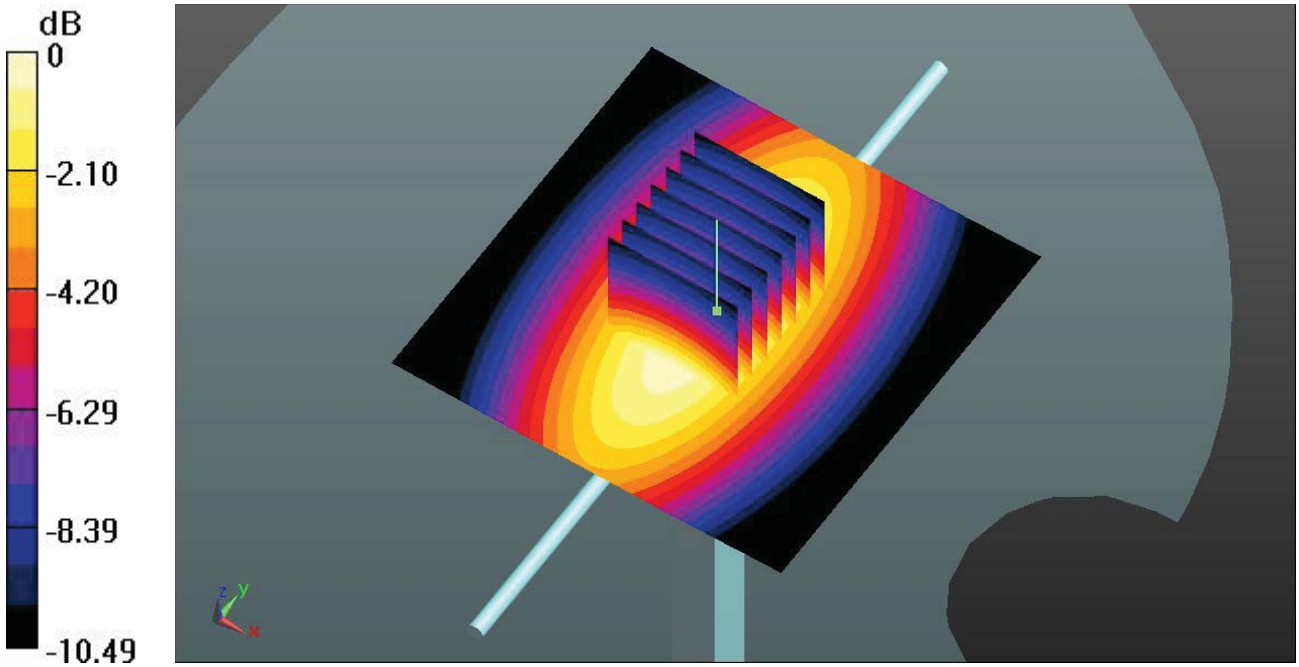
DUT: D835V2 - SN: 4d091

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium: HSL_835_120510 Medium parameters used: f = 835 MHz; σ = 0.902 mho/m; ε_r = 40.749; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃; Liquid Temperature：21.6 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(6.04, 6.04, 6.04); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Pin=250mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 2.533 mW/g

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 53.388 V/m; Power Drift = 0.0063 dB
Peak SAR (extrapolated) = 3.5750
SAR(1 g) = 2.35 mW/g; SAR(10 g) = 1.53 mW/g
Maximum value of SAR (measured) = 2.530 mW/g



0 dB = 2.530mW/g = 8.06 dB mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 03.05.2012

System Check_Body_835MHz_120503

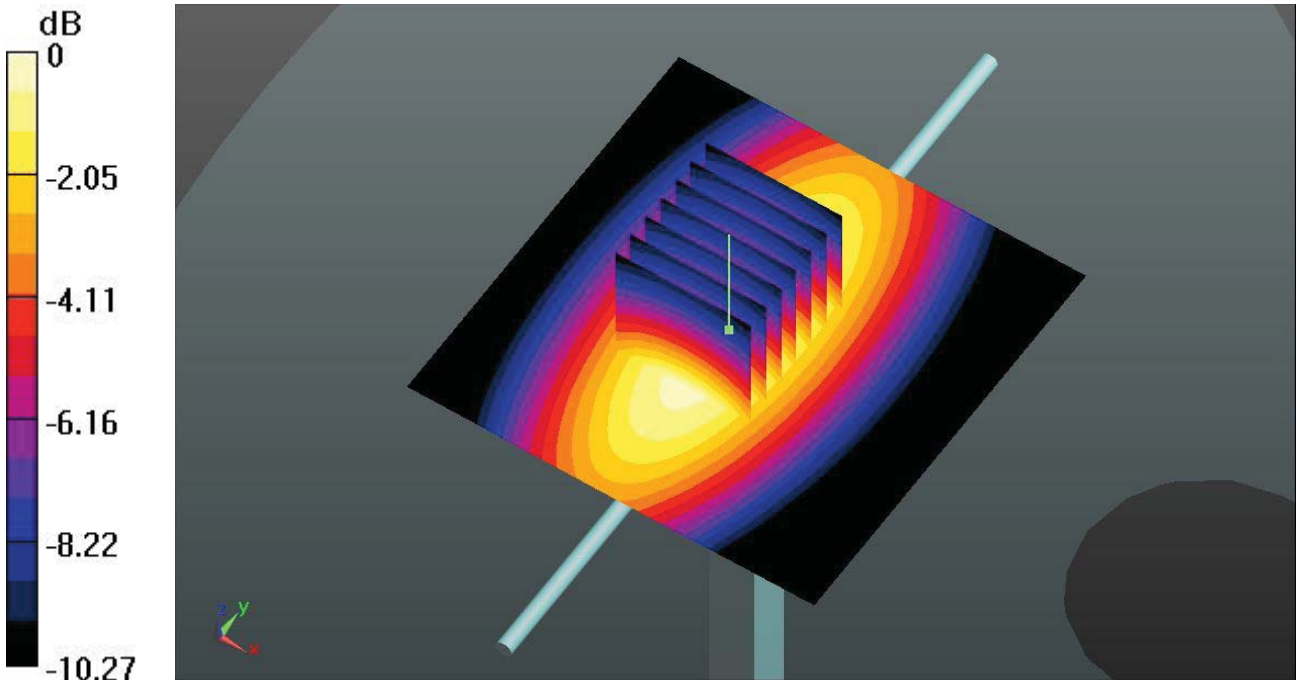
DUT: D835V2 - SN: 4d091

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium: MSL_835_120503 Medium parameters used: f = 835 MHz; σ = 0.97 mho/m; ε_r = 56.499; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃； Liquid Temperature：21.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(9.72, 9.72, 9.72); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Pin=250mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 2.466 mW/g

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 50.106 V/m; Power Drift = 0.0072 dB
Peak SAR (extrapolated) = 3.4460
SAR(1 g) = 2.29 mW/g; SAR(10 g) = 1.5 mW/g
Maximum value of SAR (measured) = 2.474 mW/g



0 dB = 2.470mW/g = 7.85 dB mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 09.05.2012

System Check_Body_835MHz_120509

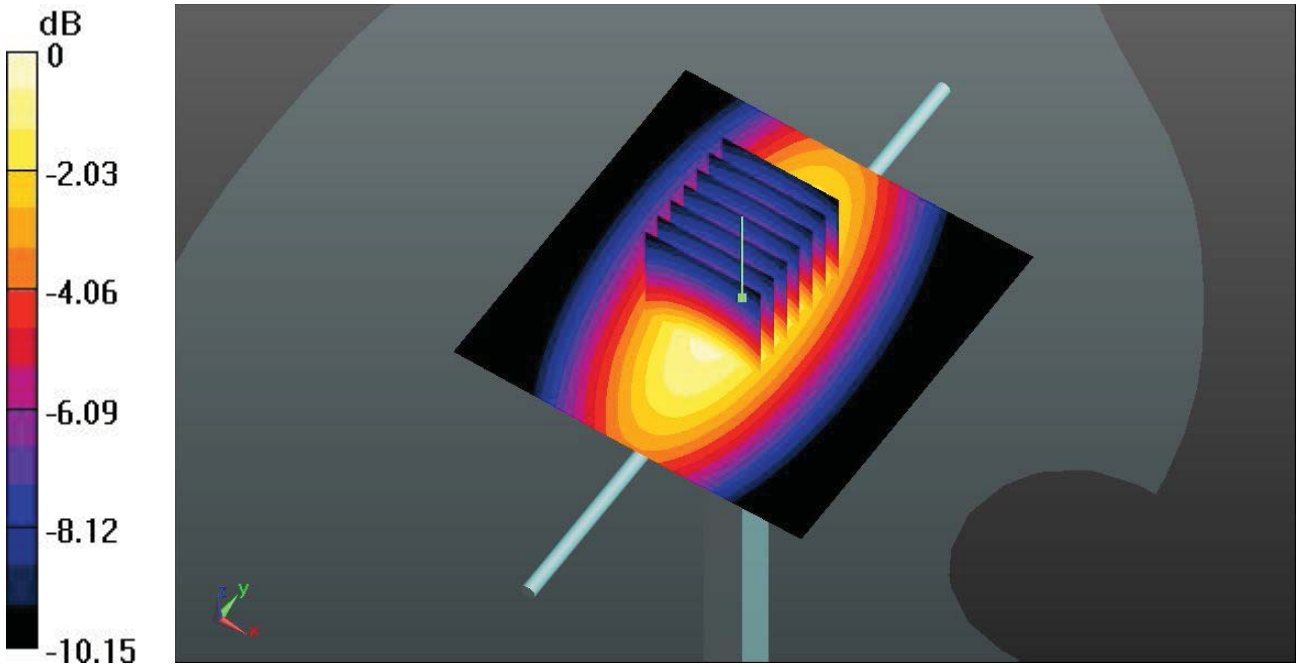
DUT: D835V2 - SN: 4d091

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium: MSL_835_120509 Medium parameters used: f = 835 MHz; σ = 0.977 mho/m; ε_r = 54.928; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature：21.7 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(6.16, 6.16, 6.16); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Pin=250mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 2.495 mW/g

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 48.839 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 3.5820
SAR(1 g) = 2.38 mW/g; SAR(10 g) = 1.56 mW/g
Maximum value of SAR (measured) = 2.576 mW/g



0 dB = 2.580mW/g = 8.23 dB mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 10.05.2012

System Check_Body_835MHz_120510

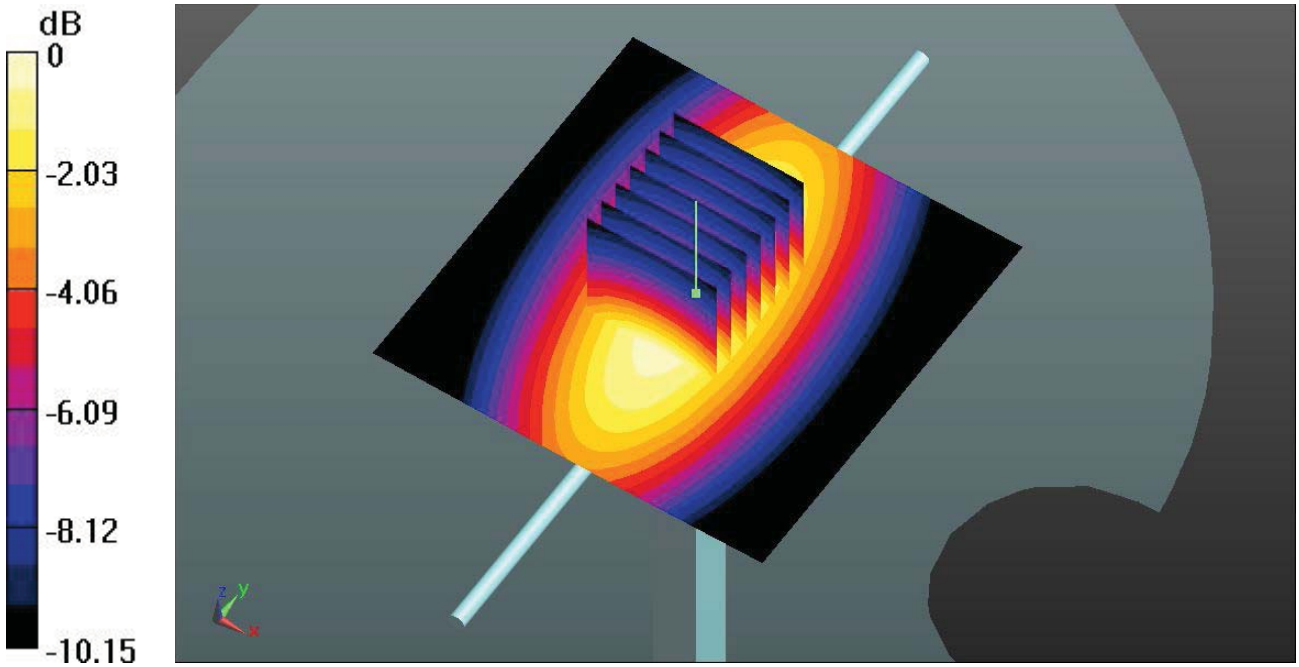
DUT: D835V2 - SN: 4d091

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium: MSL_835_120510 Medium parameters used: f = 835 MHz; σ = 0.969 mho/m; ε_r = 56.069; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：21.4 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(6.16, 6.16, 6.16); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Pin=250mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 2.686 mW/g

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 53.049 V/m; Power Drift = -0.00013 dB
Peak SAR (extrapolated) = 3.7270
SAR(1 g) = 2.48 mW/g; SAR(10 g) = 1.62 mW/g
Maximum value of SAR (measured) = 2.684 mW/g



0 dB = 2.680mW/g = 8.56 dB mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 10.05.2012

System Check_Head_1900MHz_120510

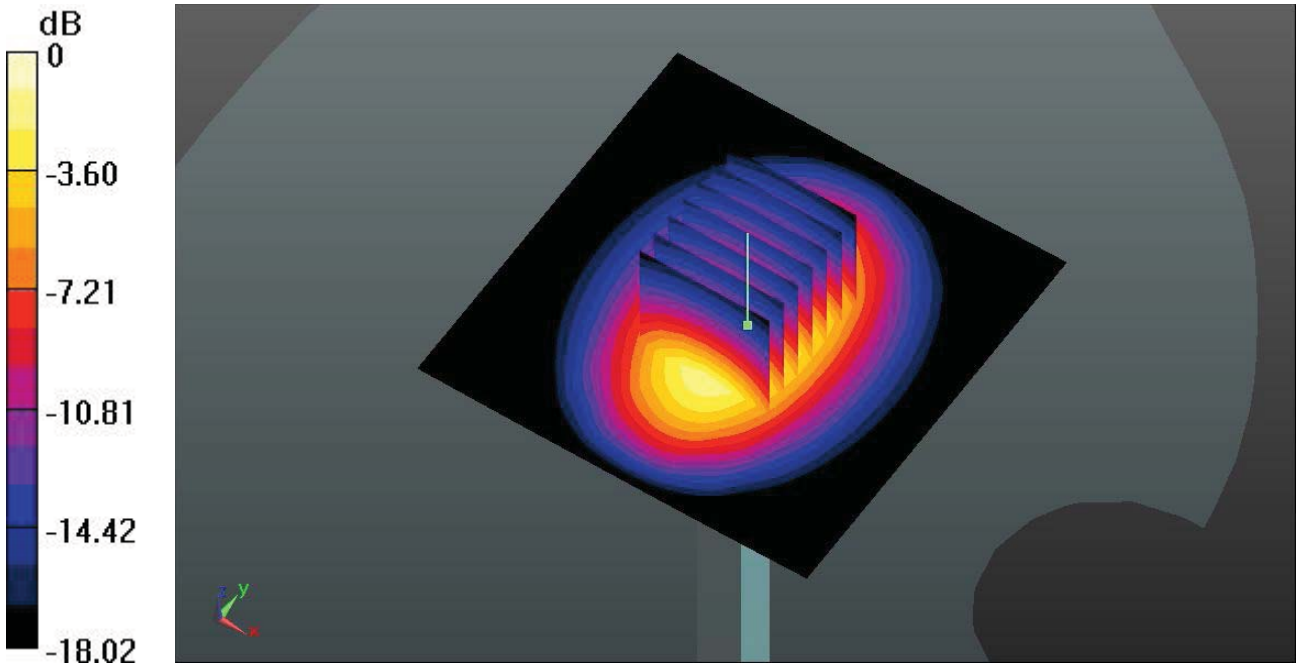
DUT: D1900V2 - SN: 5d118

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: HSL_1900_120510 Medium parameters used: f = 1900 MHz; σ = 1.415 mho/m; ε_r = 40.527; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature：21.5 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(5.14, 5.14, 5.14); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Pin=250mW/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 11.369 mW/g

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 89.475 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 19.1840
SAR(1 g) = 10.1 mW/g; SAR(10 g) = 5.13 mW/g
Maximum value of SAR (measured) = 11.357 mW/g



0 dB = 11.360mW/g = 21.11 dB mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 02.05.2012

System Check_Body_1900MHz_120502

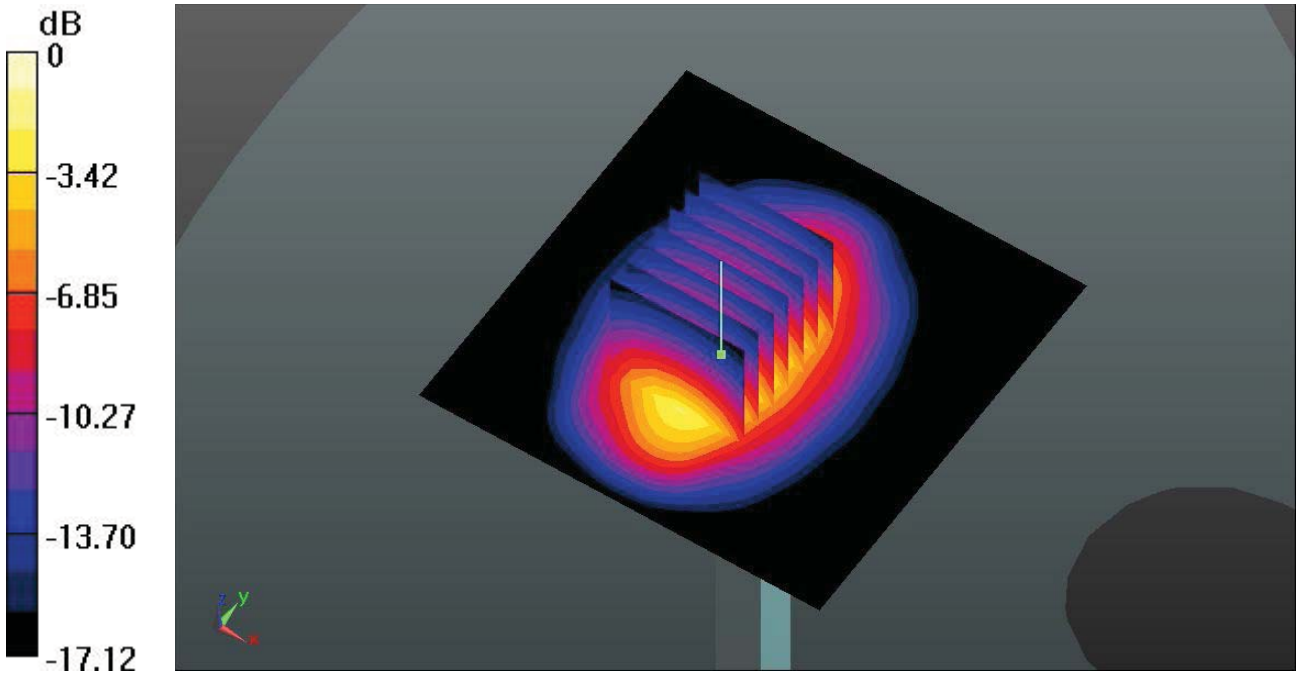
DUT: D1900V2 - SN: 5d118

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: MSL_1900_120502 Medium parameters used: f = 1900 MHz; σ = 1.535 mho/m; ε_r = 54.579; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：21.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(7.71, 7.71, 7.71); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Pin=250mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 12.496 mW/g

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 86.036 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 19.3560
SAR(1 g) = 10.5 mW/g; SAR(10 g) = 5.51 mW/g
Maximum value of SAR (measured) = 11.778 mW/g



0 dB = 11.780mW/g = 21.42 dB mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 09.05.2012

System Check_Body_1900MHz_120509

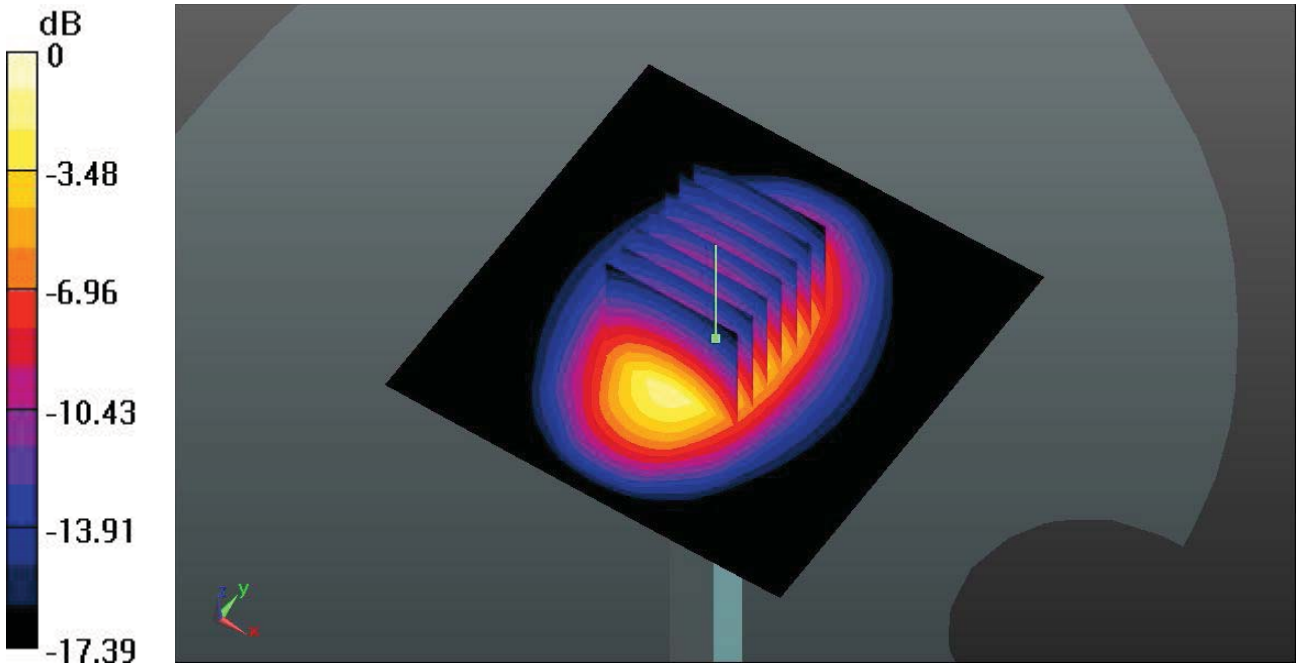
DUT: D1900V2 - SN: 5d118

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: MSL_1900_120509 Medium parameters used: f = 1900 MHz; σ = 1.512 mho/m; ε_r = 53.903; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：21.5 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(4.64, 4.64, 4.64); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Pin=250mW/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 11.765 mW/g

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 89.059 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 18.9730
SAR(1 g) = 10.2 mW/g; SAR(10 g) = 5.27 mW/g
Maximum value of SAR (measured) = 11.610 mW/g



0 dB = 11.610mW/g = 21.30 dB mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 03.05.2012

System Check_Head_2450MHz_120503

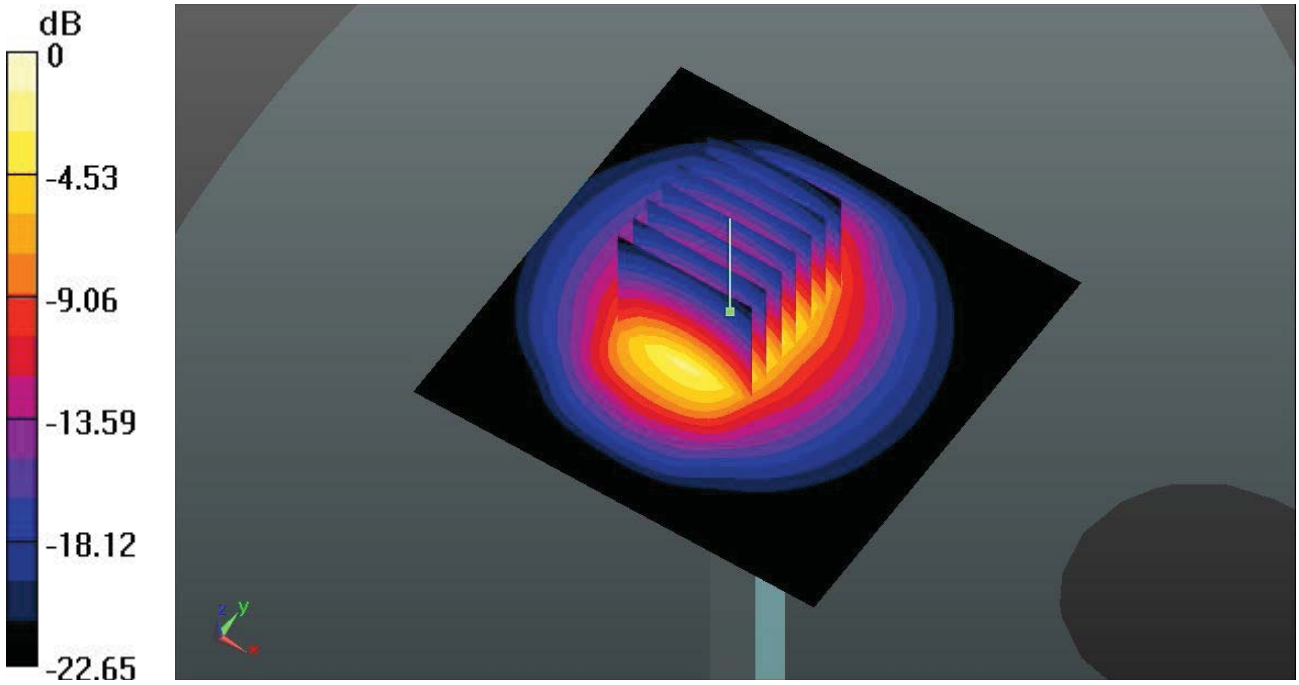
DUT: D2450V2 - SN: 736

Communication System: CW; Frequency: 2450 MHz;Duty Cycle: 1:1
Medium: HSL_2450_120503 Medium parameters used: f = 2450 MHz; σ = 1.82 mho/m; ε_r = 39.753; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：21.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(7.33, 7.33, 7.33); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Pin=250mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 15.340 mW/g

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 79.090 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 27.9590
SAR(1 g) = 13 mW/g; SAR(10 g) = 5.92 mW/g
Maximum value of SAR (measured) = 14.692 mW/g



0 dB = 14.690mW/g = 23.34 dB mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 09.05.2012

System Check_Head_2450MHz_120509

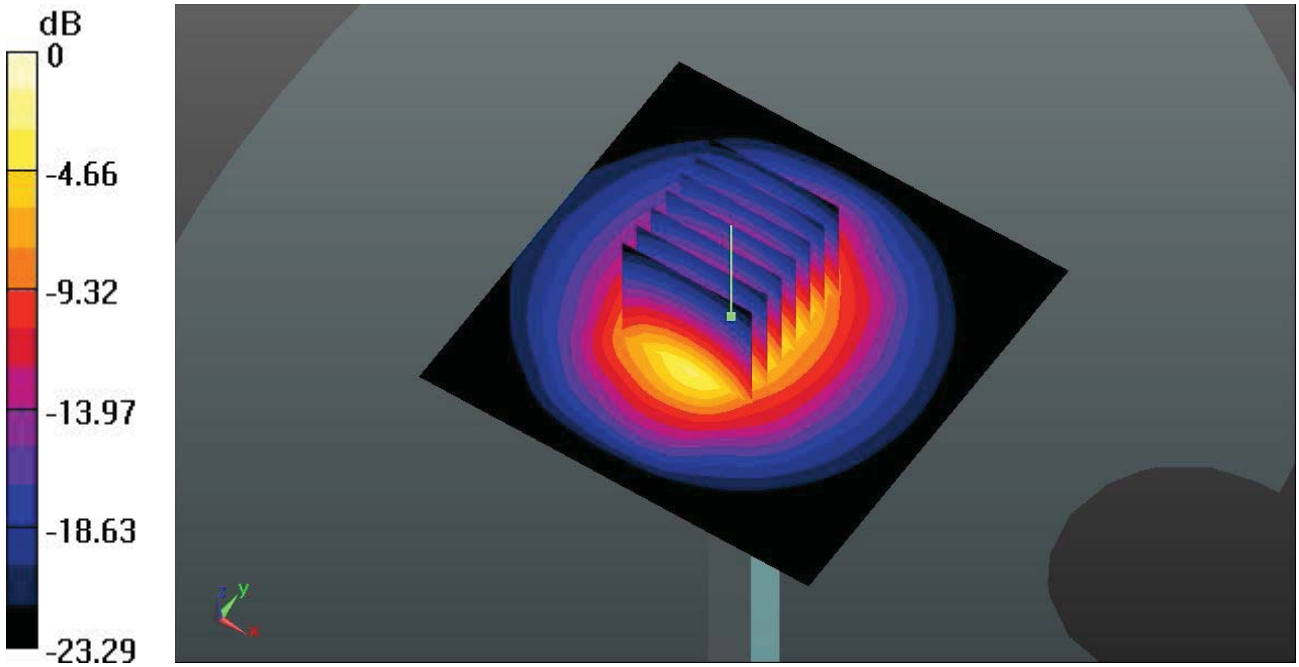
DUT: D2450V2 - SN: 736

Communication System: CW; Frequency: 2450 MHz;Duty Cycle: 1:1
Medium: HSL_2450_120509 Medium parameters used: f = 2450 MHz; σ = 1.834 mho/m; ε_r = 39.654; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：21.3 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(4.52, 4.52, 4.52); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Pin=250mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 15.624 mW/g

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 90.884 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 30.3950
SAR(1 g) = 13.7 mW/g; SAR(10 g) = 6.16 mW/g
Maximum value of SAR (measured) = 15.678 mW/g



0 dB = 15.680mW/g = 23.91 dB mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 03.05.2012

System Check_Body_2450MHz_120503

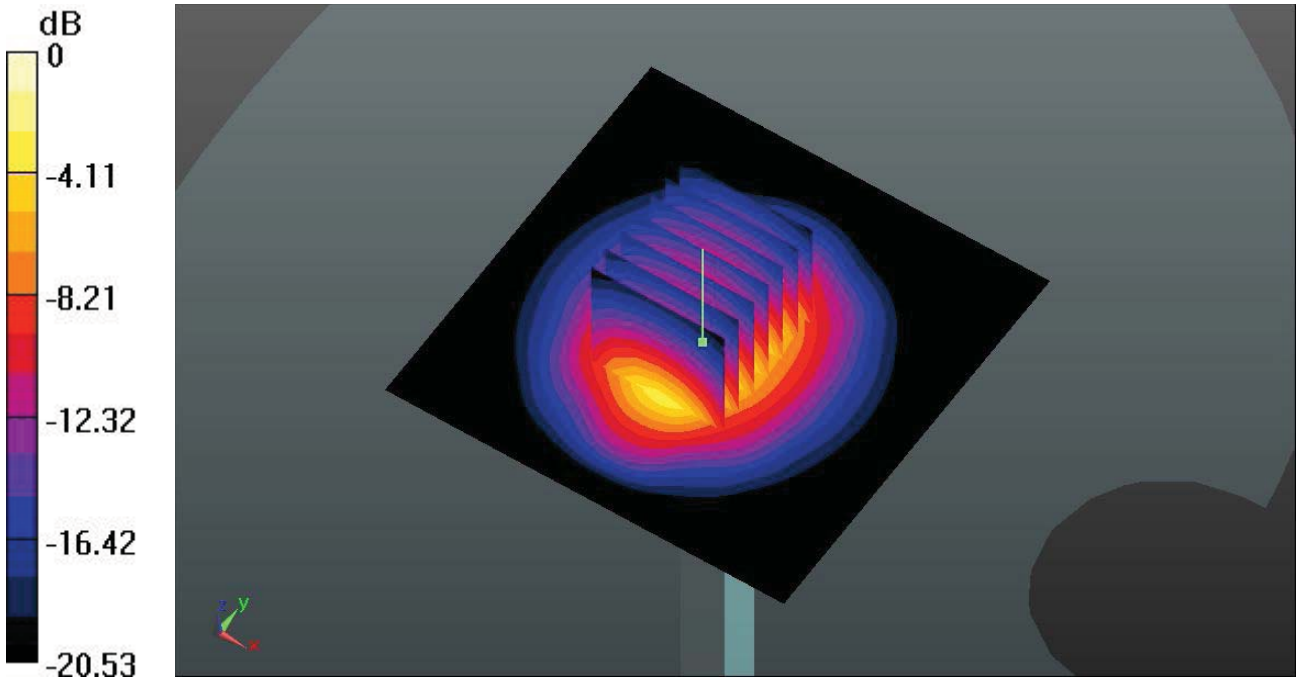
DUT: D2450V2 - SN: 736

Communication System: CW; Frequency: 2450 MHz;Duty Cycle: 1:1
Medium: MSL_2450_120503 Medium parameters used: f = 2450 MHz; σ = 2.002 mho/m; ε_r = 53.464; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature：21.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(7.4, 7.4, 7.4); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Pin=250mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 14.509 mW/g

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 84.158 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 24.7350
SAR(1 g) = 12.5 mW/g; SAR(10 g) = 5.88 mW/g
Maximum value of SAR (measured) = 14.325 mW/g



0 dB = 14.320mW/g = 23.12 dB mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 09.05.2012

System Check_Body_2450MHz_120509

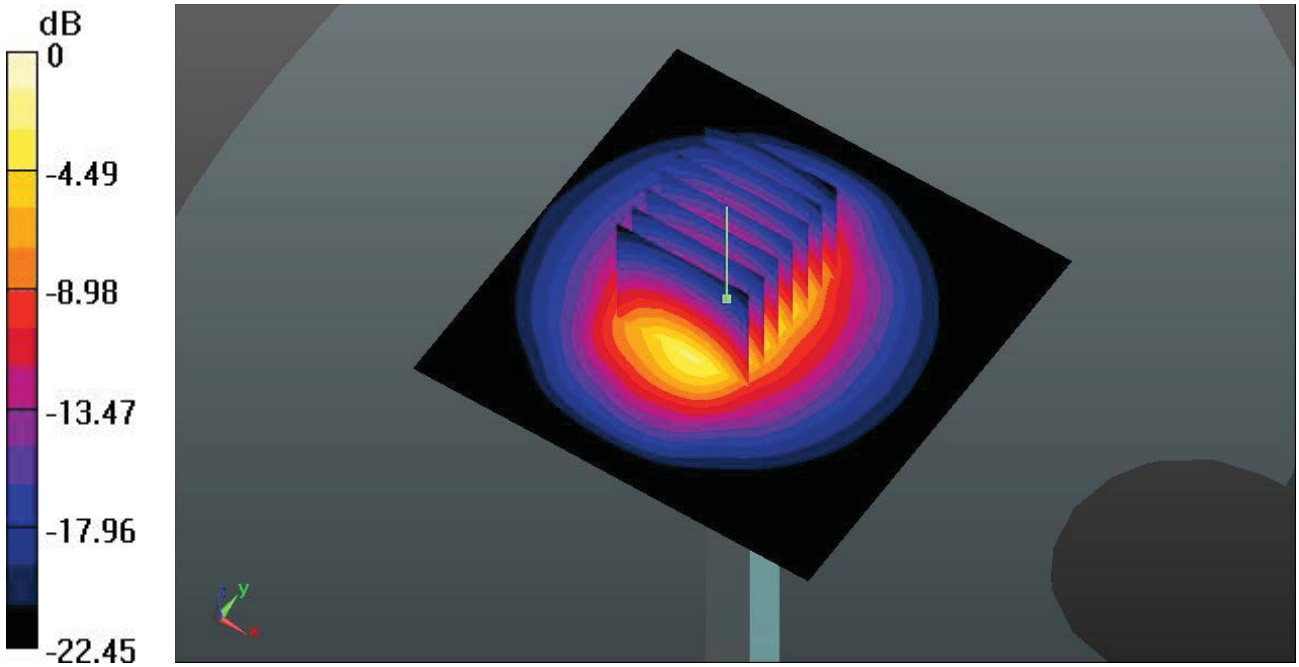
DUT: D2450V2 - SN: 736

Communication System: CW; Frequency: 2450 MHz;Duty Cycle: 1:1
Medium: MSL_2450_120509 Medium parameters used: f = 2450 MHz; σ = 1.939 mho/m; ε_r = 53.98; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature：21.6 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(4.28, 4.28, 4.28); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Pin=250mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 14.782 mW/g

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 82.885 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 28.9970
SAR(1 g) = 13.1 mW/g; SAR(10 g) = 5.91 mW/g
Maximum value of SAR (measured) = 14.995 mW/g



0 dB = 15.000mW/g = 23.52 dB mW/g

Appendix B. Plots of SAR Measurement

The plots are shown as follows.

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 10.05.2012

68 GSM850_GPRS10_Right Cheek_Ch128_Battery#1

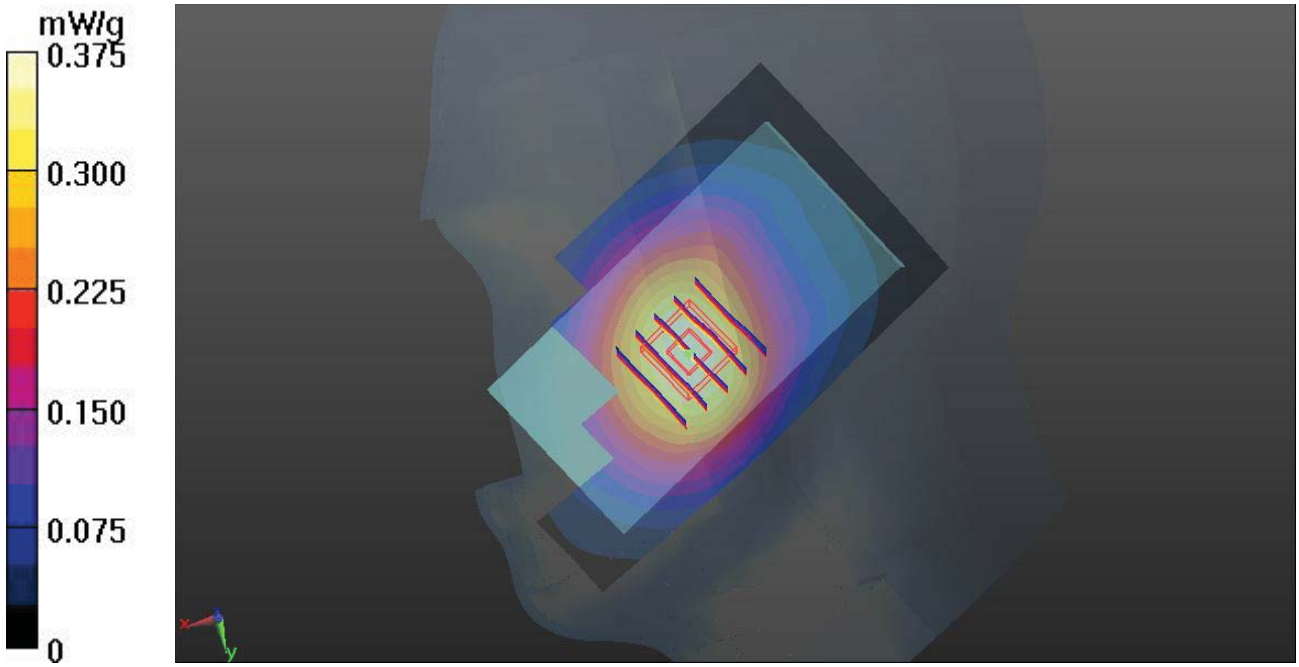
DUT: 240601

Communication System: GPRS/EDGE10; Frequency: 824.2 MHz;Duty Cycle: 1:4
Medium: HSL_835_120510 Medium parameters used: f = 824.2 MHz; σ = 0.892 mho/m; ε_r = 40.852; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃; Liquid Temperature：21.6 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(6.04, 6.04, 6.04); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch128/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.375 mW/g

Ch128/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.048 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.4370
SAR(1 g) = 0.355 mW/g; SAR(10 g) = 0.272 mW/g
Maximum value of SAR (measured) = 0.377 mW/g



68 GSM850_GPRS10_Right Cheek_Ch128_Battery#1_2D

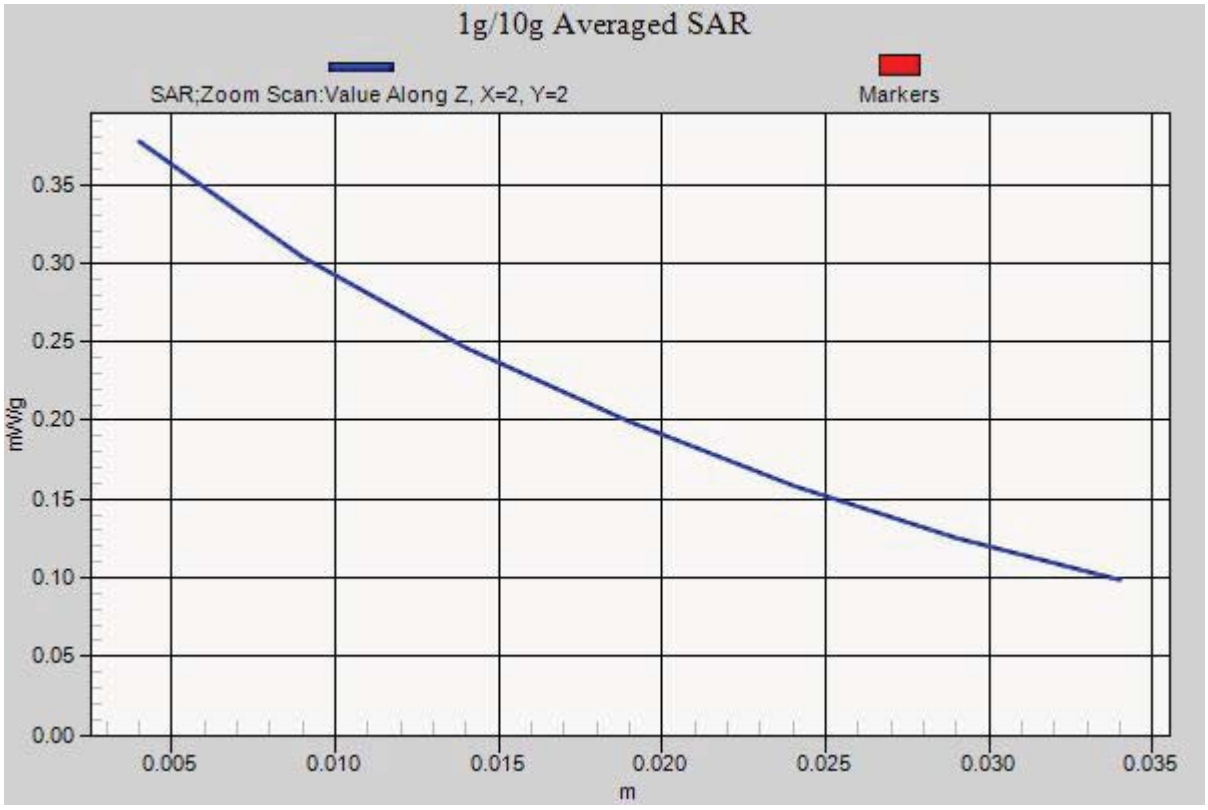
DUT: 240601

Communication System: GPRS/EDGE10; Frequency: 824.2 MHz;Duty Cycle: 1:4
Medium: HSL_835_120510 Medium parameters used: f = 824.2 MHz; σ = 0.892 mho/m; ε_r = 40.852; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃; Liquid Temperature：21.6 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(6.04, 6.04, 6.04); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch128/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.375 mW/g

Ch128/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.048 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.4370
SAR(1 g) = 0.355 mW/g; SAR(10 g) = 0.272 mW/g
Maximum value of SAR (measured) = 0.377 mW/g



69 GSM850_GPRS10_Right Tilted_Ch128_Battery#1

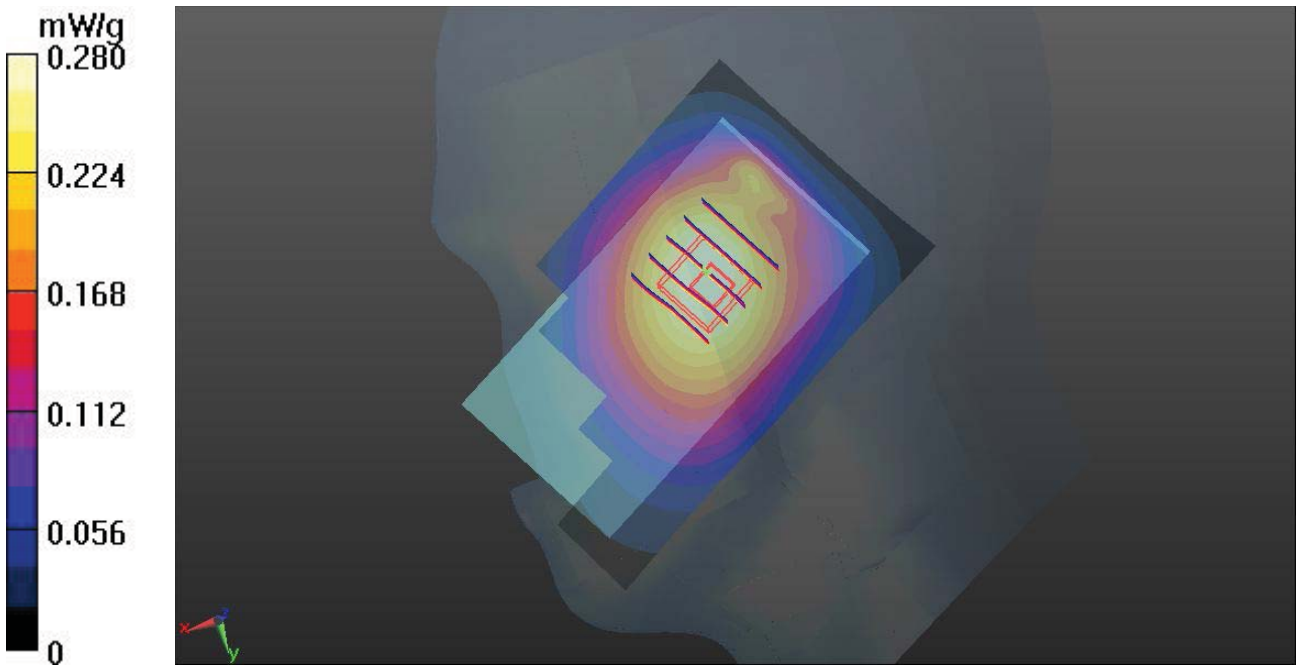
DUT: 240601

Communication System: GPRS/EDGE10; Frequency: 824.2 MHz;Duty Cycle: 1:4
Medium: HSL_835_120510 Medium parameters used: f = 824.2 MHz; σ = 0.892 mho/m; ε_r = 40.852; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃; Liquid Temperature：21.6 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(6.04, 6.04, 6.04); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch128/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.280 mW/g

Ch128/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.081 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 0.5500
SAR(1 g) = 0.279 mW/g; SAR(10 g) = 0.211 mW/g
Maximum value of SAR (measured) = 0.290 mW/g



Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 10.05.2012

70 GSM850_GPRS10_Left Cheek_Ch128_Battery#1

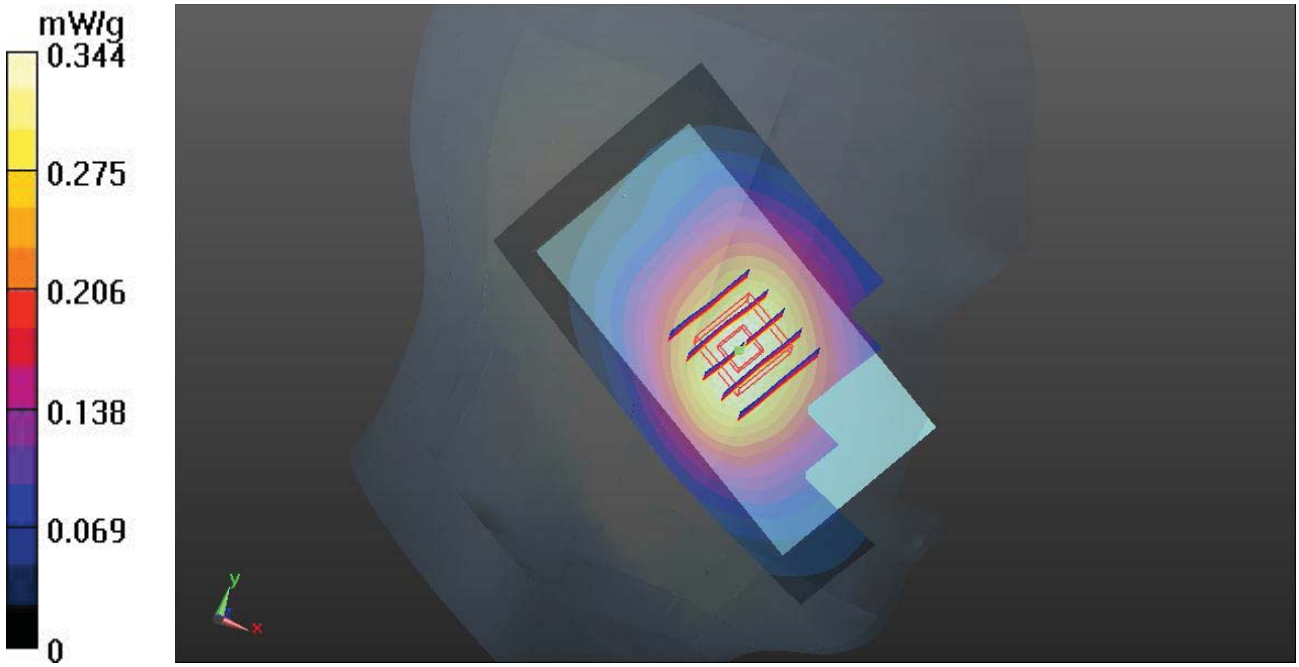
DUT: 240601

Communication System: GPRS/EDGE10; Frequency: 824.2 MHz;Duty Cycle: 1:4
Medium: HSL_835_120510 Medium parameters used: f = 824.2 MHz; σ = 0.892 mho/m; ε_r = 40.852; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃; Liquid Temperature：21.6 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(6.04, 6.04, 6.04); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch128/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.344 mW/g

Ch128/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.561 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 0.4190
SAR(1 g) = 0.330 mW/g; SAR(10 g) = 0.249 mW/g
Maximum value of SAR (measured) = 0.349 mW/g



Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 10.05.2012

71 GSM850_GPRS10_Left Tilted_Ch128_Battery#1

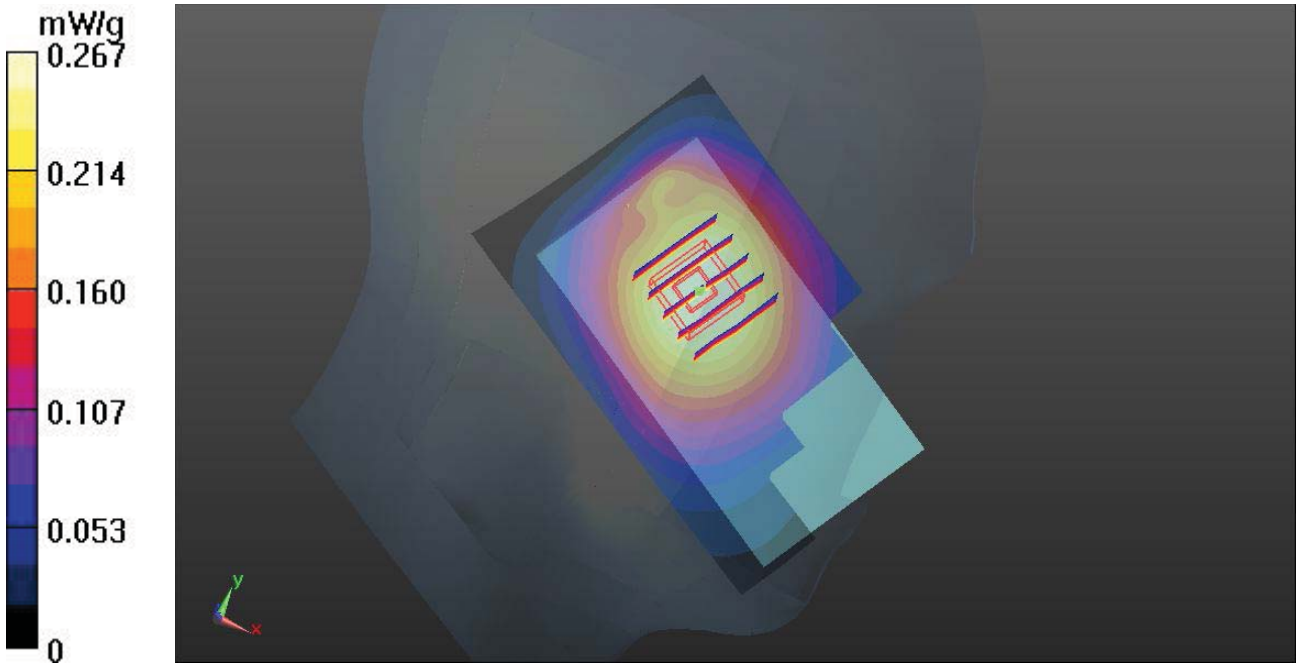
DUT: 240601

Communication System: GPRS/EDGE10; Frequency: 824.2 MHz;Duty Cycle: 1:4
Medium: HSL_835_120510 Medium parameters used: f = 824.2 MHz; σ = 0.892 mho/m; ε_r = 40.852; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃; Liquid Temperature：21.6 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(6.04, 6.04, 6.04); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch128/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.267 mW/g

Ch128/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.276 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.3340
SAR(1 g) = 0.265 mW/g; SAR(10 g) = 0.201 mW/g
Maximum value of SAR (measured) = 0.277 mW/g



72 GSM850_GPRS10_Right Cheek_Ch128_Battery#2

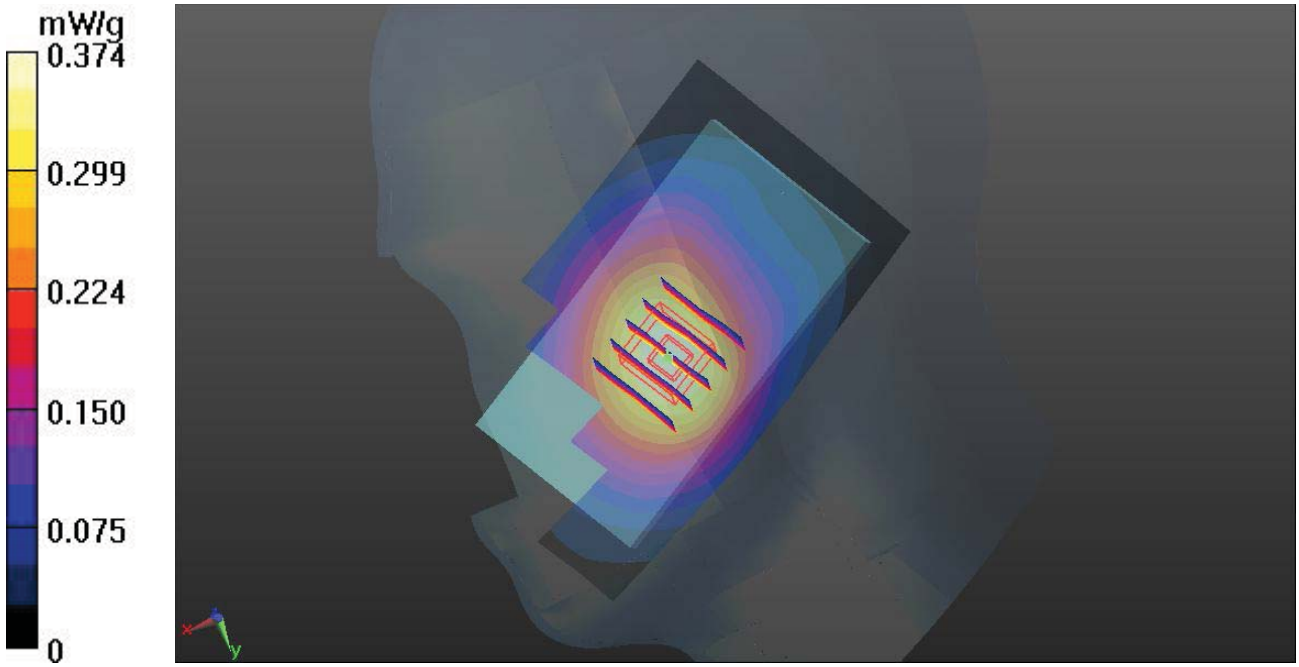
DUT: 240601

Communication System: GPRS/EDGE10; Frequency: 824.2 MHz;Duty Cycle: 1:4
Medium: HSL_835_120510 Medium parameters used: f = 824.2 MHz; σ = 0.892 mho/m; ε_r = 40.852; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃; Liquid Temperature：21.6 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(6.04, 6.04, 6.04); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch128/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.374 mW/g

Ch128/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.258 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.4420
SAR(1 g) = 0.354 mW/g; SAR(10 g) = 0.270 mW/g
Maximum value of SAR (measured) = 0.373 mW/g



Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 10.05.2012

73 GSM850_GPRS10_Right Cheek_Ch128_Battery#3

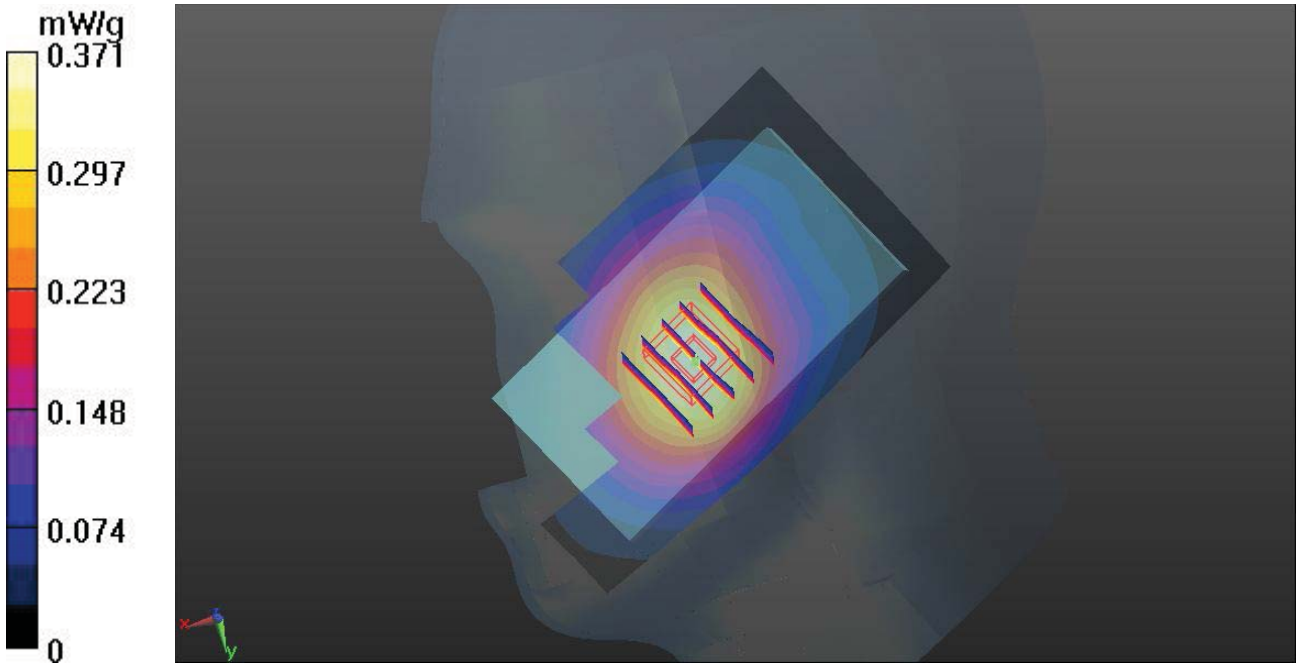
DUT: 240601

Communication System: GPRS/EDGE10; Frequency: 824.2 MHz;Duty Cycle: 1:4
Medium: HSL_835_120510 Medium parameters used: f = 824.2 MHz; σ = 0.892 mho/m; ε_r = 40.852; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃; Liquid Temperature：21.6 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(6.04, 6.04, 6.04); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch128/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.371 mW/g

Ch128/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.020 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.4430
SAR(1 g) = 0.355 mW/g; SAR(10 g) = 0.270 mW/g
Maximum value of SAR (measured) = 0.372 mW/g



01 GSM1900_GPRS10_Right Cheek_Ch661_Battery#1

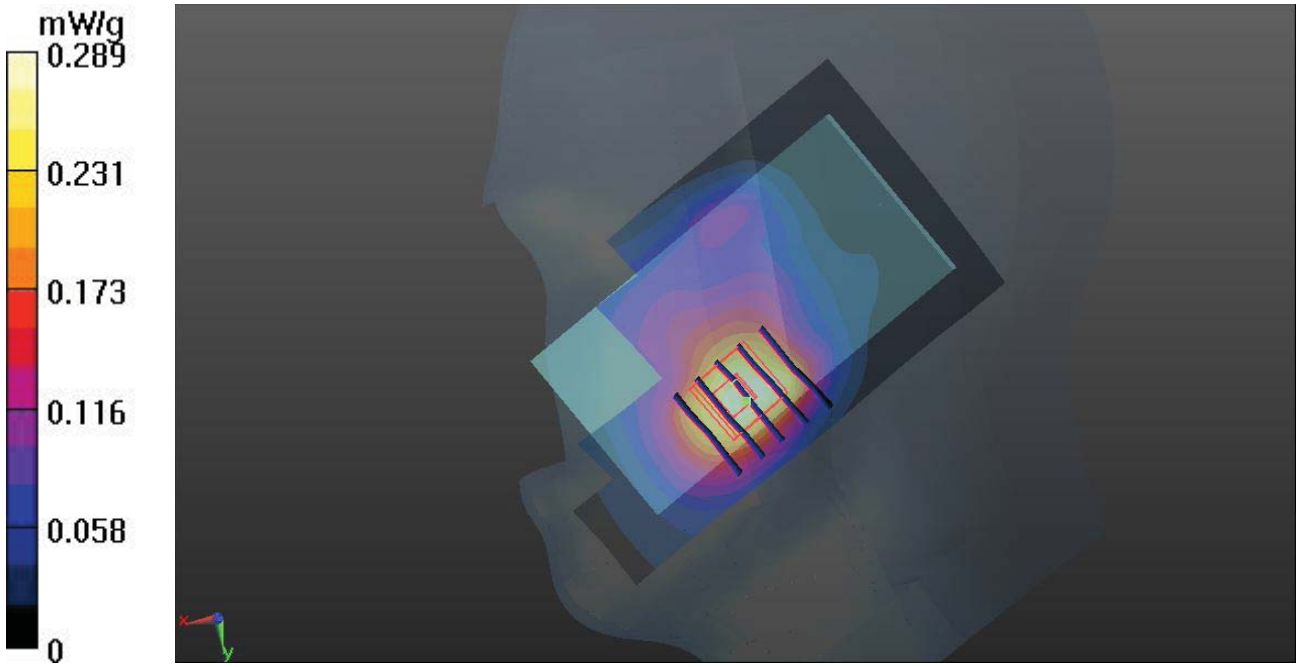
DUT: 240601

Communication System: GPRS/EDGE10; Frequency: 1880 MHz;Duty Cycle: 1:4
Medium: HSL_1900_120510 Medium parameters used: f = 1880 MHz; σ = 1.397 mho/m; ε_r = 40.608; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature：21.5 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(5.14, 5.14, 5.14); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch661/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.289 mW/g

Ch661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.492 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.3610
SAR(1 g) = 0.250 mW/g; SAR(10 g) = 0.164 mW/g
Maximum value of SAR (measured) = 0.265 mW/g



02 GSM1900_GPRS10_Right Tilted_Ch661_Battery#1

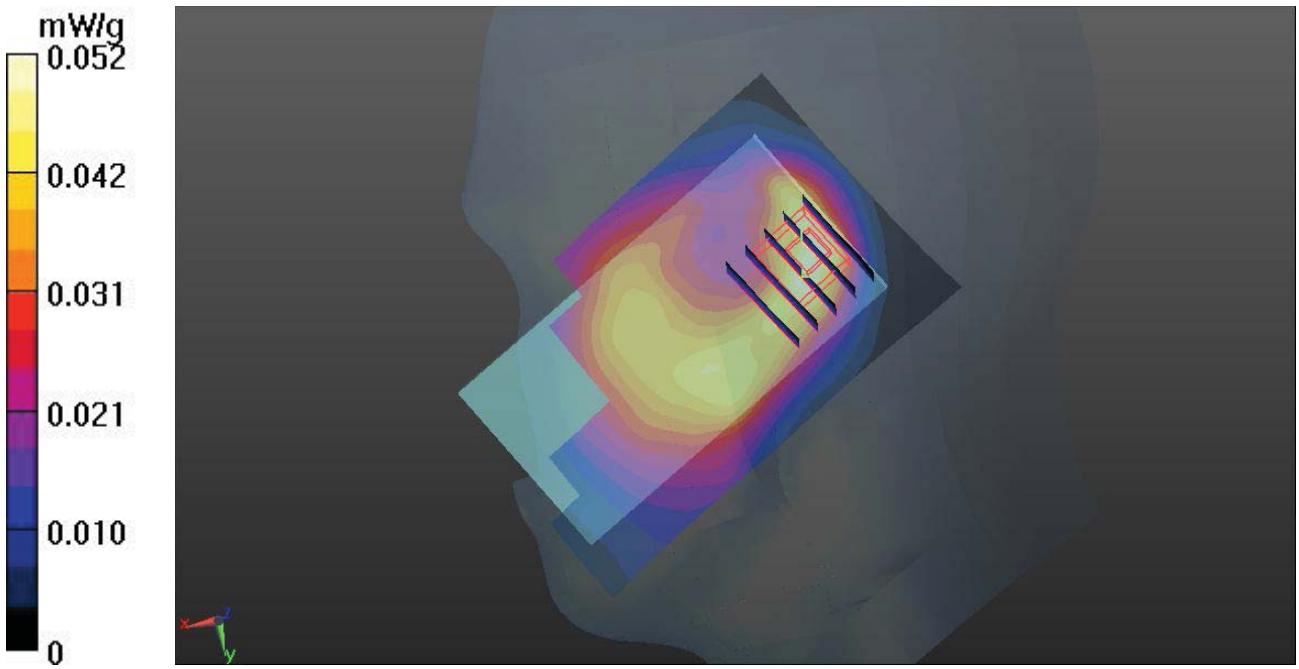
DUT: 240601

Communication System: GPRS/EDGE10; Frequency: 1880 MHz;Duty Cycle: 1:4
Medium: HSL_1900_120510 Medium parameters used: f = 1880 MHz; σ = 1.397 mho/m; ε_r = 40.608; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature：21.5 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(5.14, 5.14, 5.14); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch661/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.052 mW/g

Ch661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.911 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.0740
SAR(1 g) = 0.047 mW/g; SAR(10 g) = 0.028 mW/g
Maximum value of SAR (measured) = 0.051 mW/g



03 GSM1900_GPRS10_Left Cheek_Ch661_Battery#1

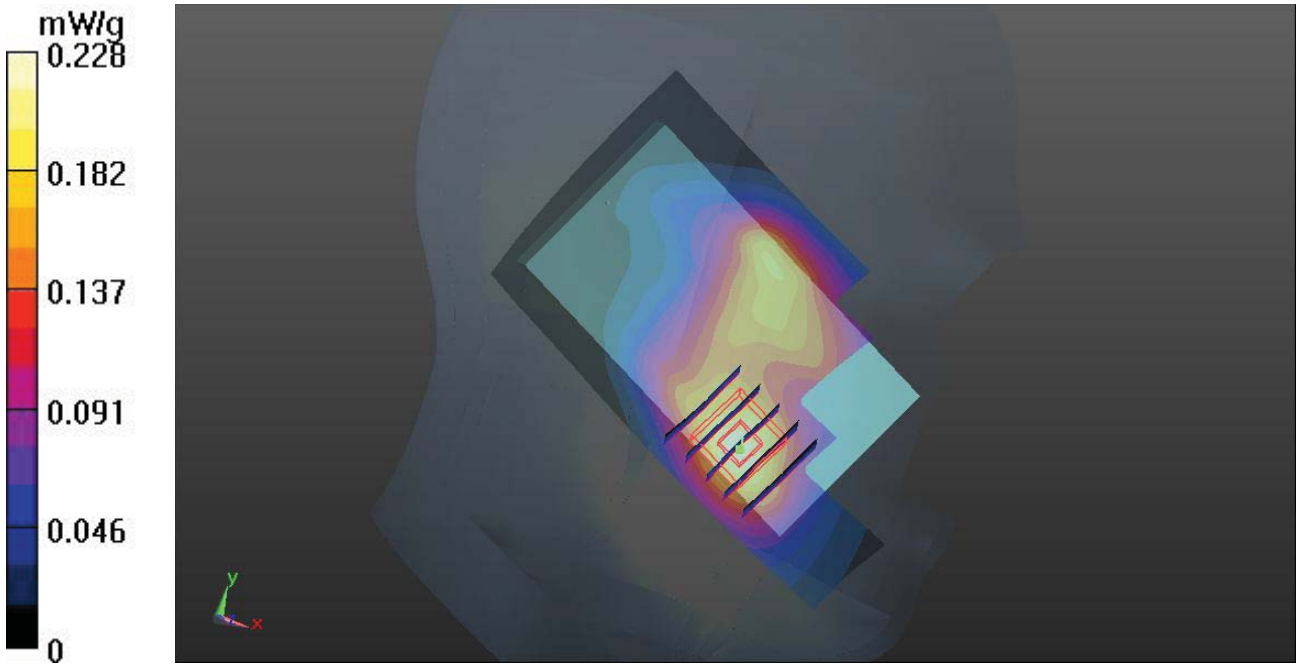
DUT: 240601

Communication System: GPRS/EDGE10; Frequency: 1880 MHz;Duty Cycle: 1:4
Medium: HSL_1900_120510 Medium parameters used: f = 1880 MHz; σ = 1.397 mho/m; ε_r = 40.608; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature：21.5 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(5.14, 5.14, 5.14); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch661/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.228 mW/g

Ch661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.674 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.3610
SAR(1 g) = 0.224 mW/g; SAR(10 g) = 0.131 mW/g
Maximum value of SAR (measured) = 0.248 mW/g



04 GSM1900_GPRS10_Left Tilted_Ch661_Battery#1

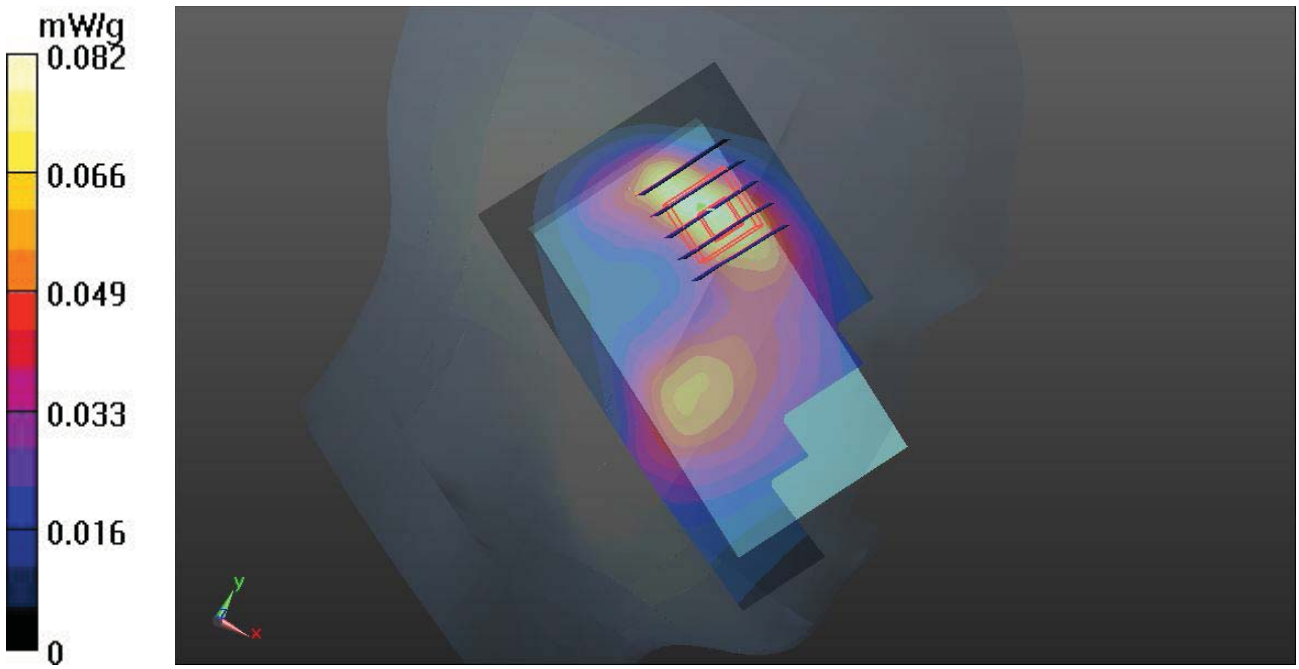
DUT: 240601

Communication System: GPRS/EDGE10; Frequency: 1880 MHz;Duty Cycle: 1:4
Medium: HSL_1900_120510 Medium parameters used: f = 1880 MHz; σ = 1.397 mho/m; ε_r = 40.608; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature：21.5 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(5.14, 5.14, 5.14); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch661/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.082 mW/g

Ch661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.895 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.1120
SAR(1 g) = 0.071 mW/g; SAR(10 g) = 0.043 mW/g
Maximum value of SAR (measured) = 0.077 mW/g



05 GSM1900_GPRS10_Right Cheek_Ch661_Battery#2

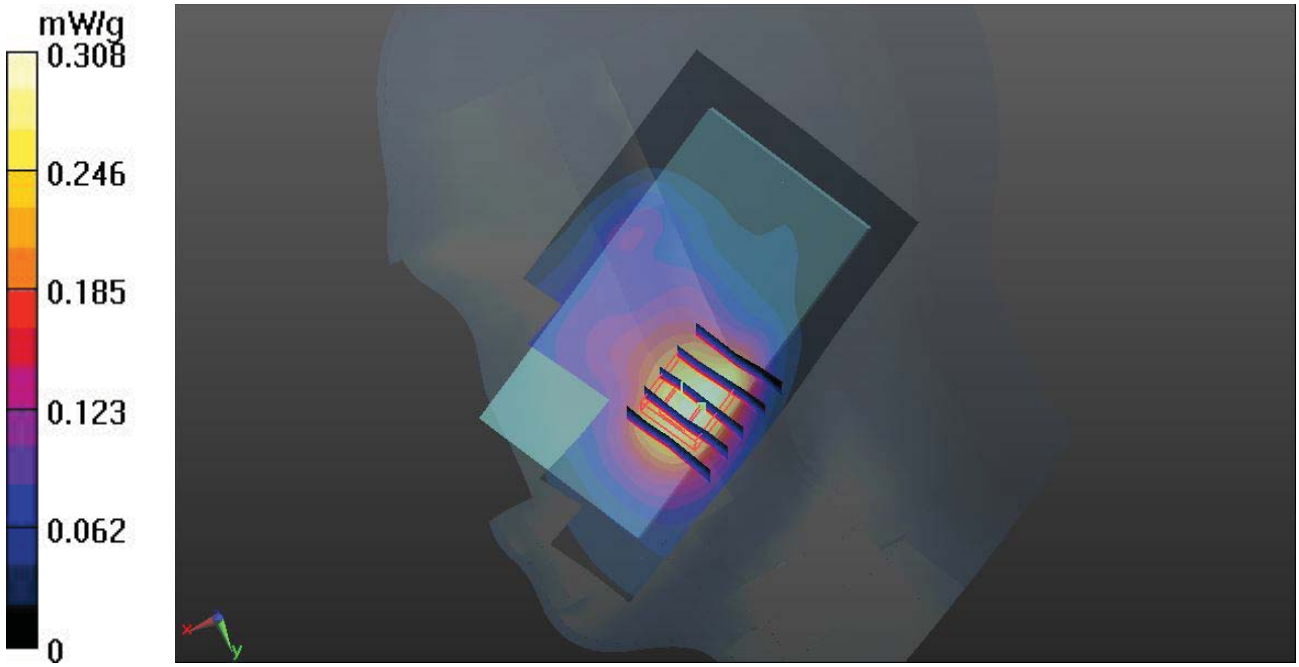
DUT: 240601

Communication System: GPRS/EDGE10; Frequency: 1880 MHz;Duty Cycle: 1:4
Medium: HSL_1900_120510 Medium parameters used: f = 1880 MHz; σ = 1.397 mho/m; ε_r = 40.608; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature：21.5 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(5.14, 5.14, 5.14); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch661/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.308 mW/g

Ch661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.681 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 0.3790
SAR(1 g) = 0.260 mW/g; SAR(10 g) = 0.170 mW/g
Maximum value of SAR (measured) = 0.272 mW/g



06 GSM1900_GPRS10_Right Cheek_Ch661_Battery#3

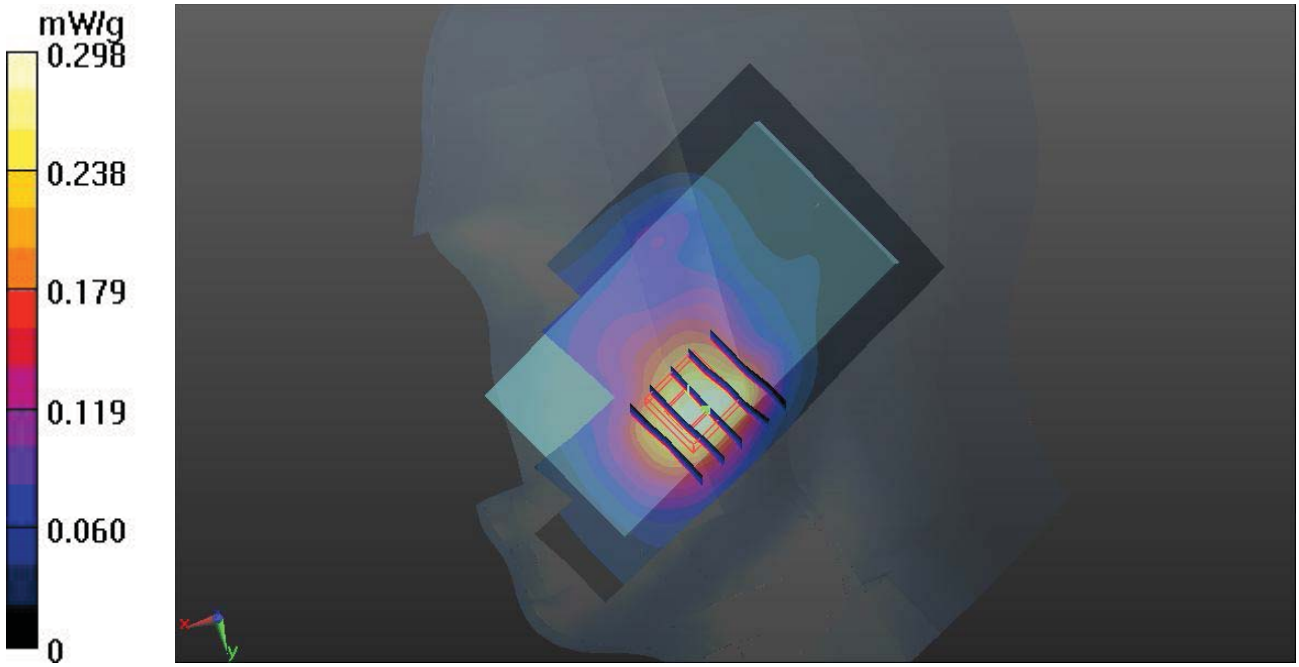
DUT: 240601

Communication System: GPRS/EDGE10; Frequency: 1880 MHz;Duty Cycle: 1:4
Medium: HSL_1900_120510 Medium parameters used: f = 1880 MHz; σ = 1.397 mho/m; ε_r = 40.608; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature：21.5 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(5.14, 5.14, 5.14); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch661/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.298 mW/g

Ch661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.747 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.3760
SAR(1 g) = 0.261 mW/g; SAR(10 g) = 0.171 mW/g
Maximum value of SAR (measured) = 0.272 mW/g



06 GSM1900_GPRS10_Right Cheek_Ch661_Battery#3_2D

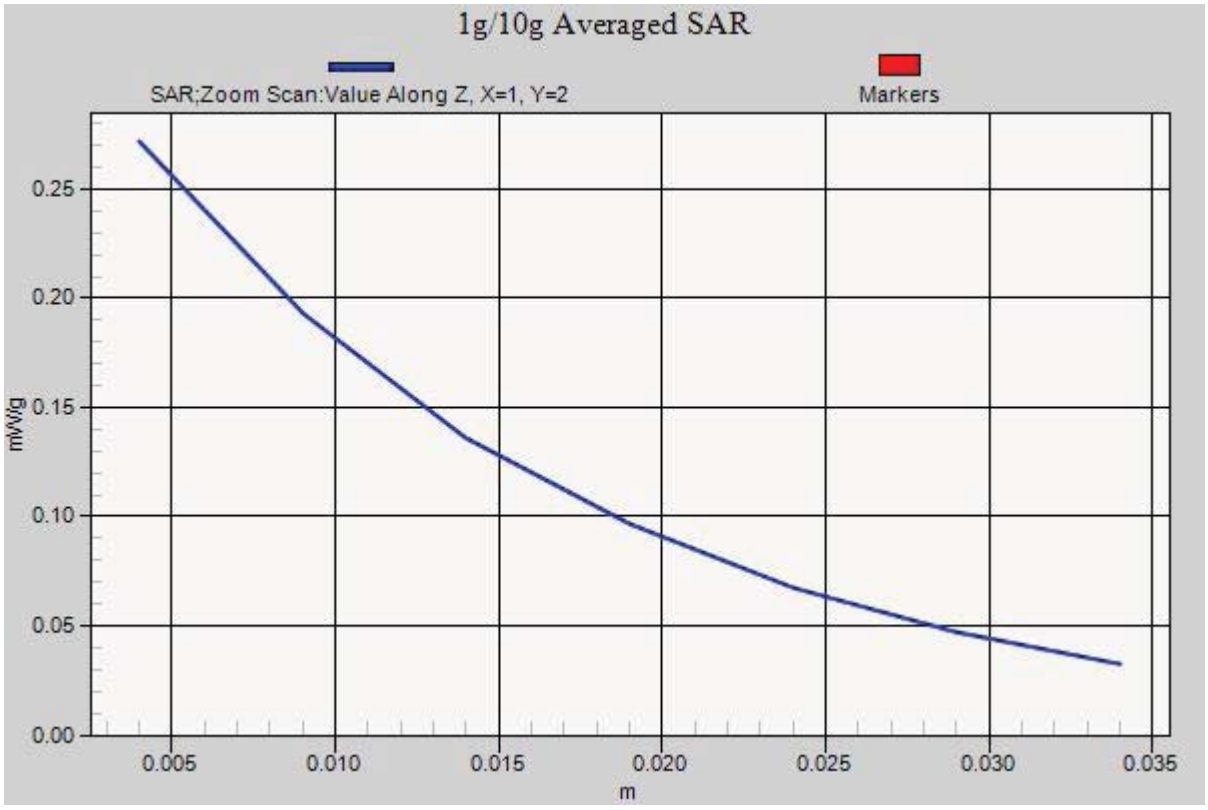
DUT: 240601

Communication System: GPRS/EDGE10; Frequency: 1880 MHz;Duty Cycle: 1:4
Medium: HSL_1900_120510 Medium parameters used: f = 1880 MHz; σ = 1.397 mho/m; ε_r = 40.608; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature：21.5 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(5.14, 5.14, 5.14); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch661/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.298 mW/g

Ch661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.747 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.3760
SAR(1 g) = 0.261 mW/g; SAR(10 g) = 0.171 mW/g
Maximum value of SAR (measured) = 0.272 mW/g



35 WCDMA V_RMC 12.2K_Right Cheek_Ch4132_Battery#1

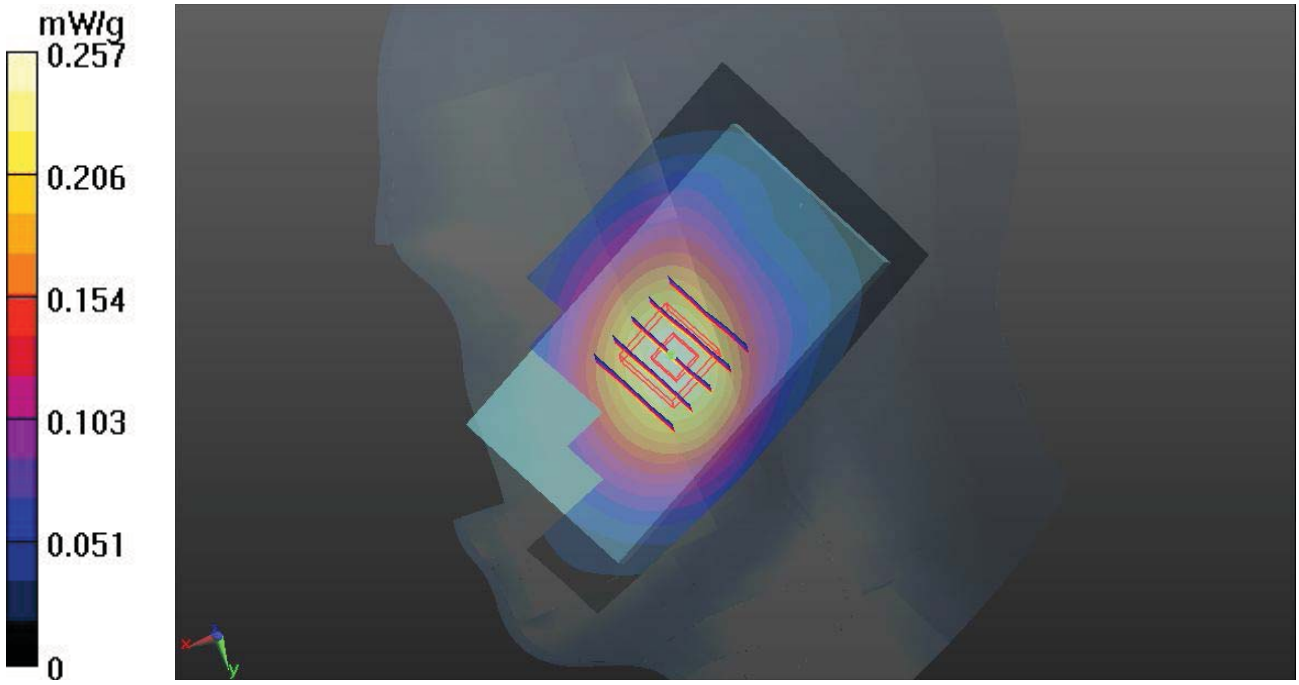
DUT: 240601

Communication System: UMTS; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium: HSL_835_120502 Medium parameters used: f = 826.5 MHz; σ = 0.89 mho/m; ε_r = 40.863; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃; Liquid Temperature：21.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(9.4, 9.4, 9.4); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch4132/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.257 mW/g

Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.872 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.3000
SAR(1 g) = 0.244 mW/g; SAR(10 g) = 0.185 mW/g
Maximum value of SAR (measured) = 0.257 mW/g



35 WCDMA V_RMC 12.2K_Right Cheek_Ch4132_Battery#1_2D

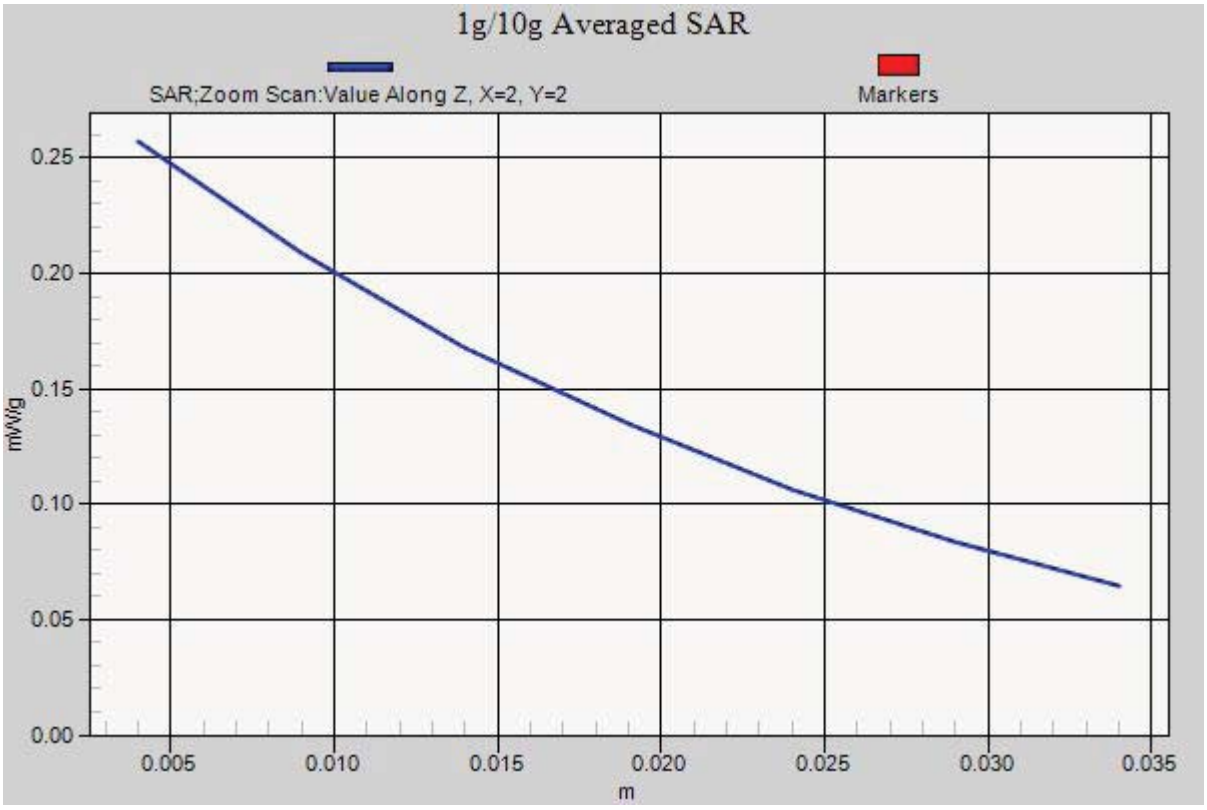
DUT: 240601

Communication System: UMTS; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium: HSL_835_120502 Medium parameters used: f = 826.5 MHz; σ = 0.89 mho/m; ε_r = 40.863; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃; Liquid Temperature：21.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(9.4, 9.4, 9.4); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch4132/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.257 mW/g

Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.872 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.3000
SAR(1 g) = 0.244 mW/g; SAR(10 g) = 0.185 mW/g
Maximum value of SAR (measured) = 0.257 mW/g



36 WCDMA V_RMC 12.2K_Right Tilted_Ch4132_Battery#1

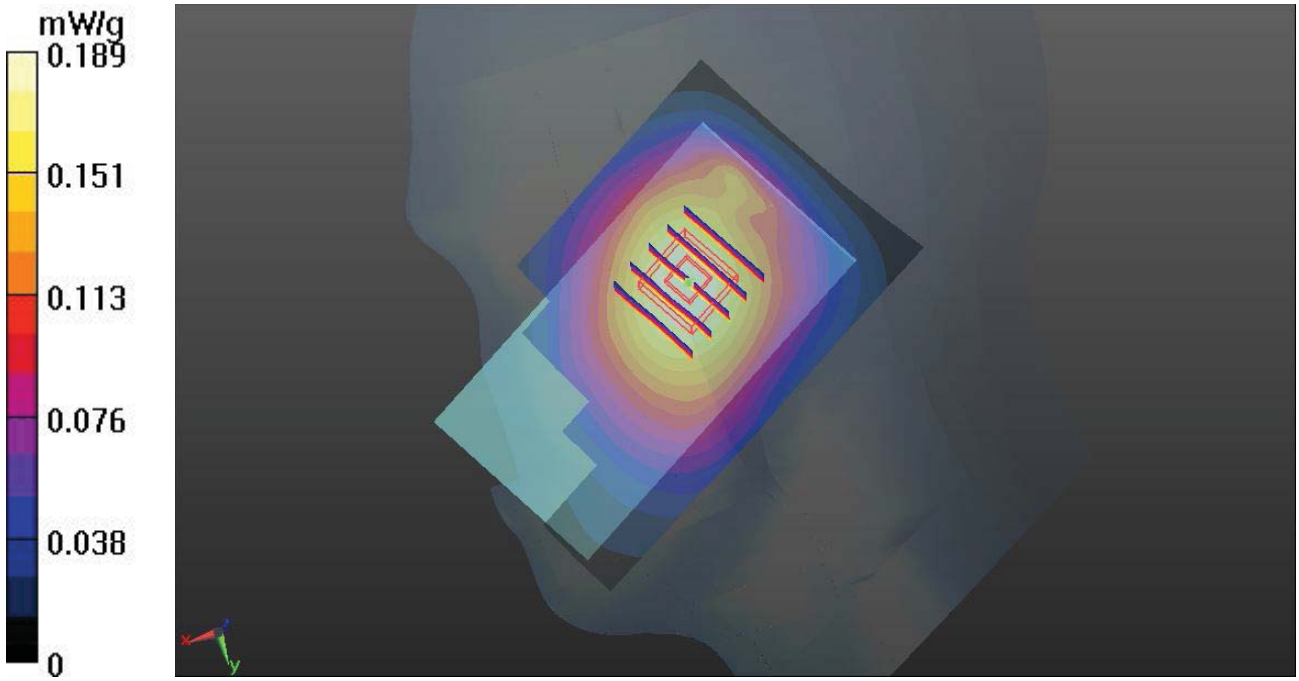
DUT: 240601

Communication System: UMTS; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium: HSL_835_120502 Medium parameters used: f = 826.5 MHz; σ = 0.89 mho/m; ε_r = 40.863; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃; Liquid Temperature：21.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(9.4, 9.4, 9.4); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch4132/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.189 mW/g

Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.398 V/m; Power Drift = -0.0079 dB
Peak SAR (extrapolated) = 0.2260
SAR(1 g) = 0.182 mW/g; SAR(10 g) = 0.139 mW/g
Maximum value of SAR (measured) = 0.190 mW/g



37 WCDMA V_RMC 12.2K_Left Cheek_Ch4132_Battery#1

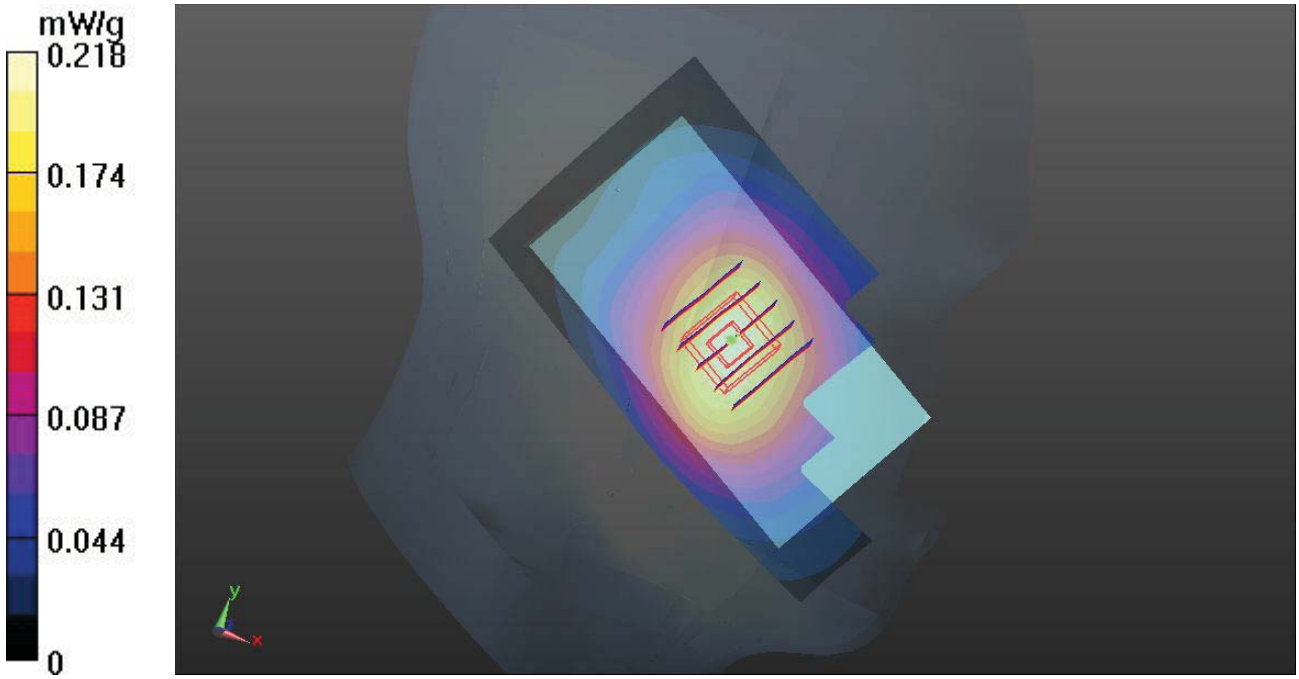
DUT: 240601

Communication System: UMTS; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium: HSL_835_120502 Medium parameters used: f = 826.5 MHz; σ = 0.89 mho/m; ε_r = 40.863; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃; Liquid Temperature：21.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(9.4, 9.4, 9.4); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch4132/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.218 mW/g

Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.034 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.2540
SAR(1 g) = 0.207 mW/g; SAR(10 g) = 0.157 mW/g
Maximum value of SAR (measured) = 0.218 mW/g



38 WCDMA V_RMC 12.2K_Left Tilted_Ch4132_Battery#1

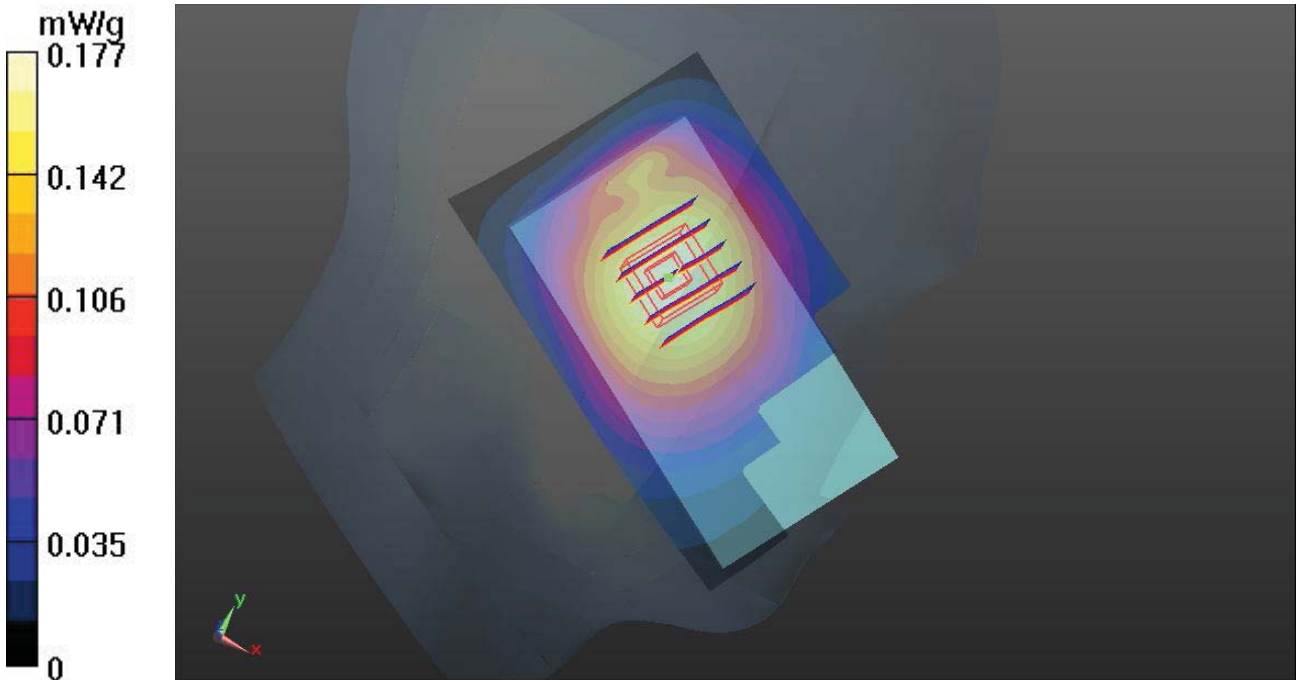
DUT: 240601

Communication System: UMTS; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium: HSL_835_120502 Medium parameters used: f = 826.5 MHz; σ = 0.89 mho/m; ε_r = 40.863; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃; Liquid Temperature：21.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(9.4, 9.4, 9.4); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch4132/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.177 mW/g

Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.984 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.2120
SAR(1 g) = 0.170 mW/g; SAR(10 g) = 0.130 mW/g
Maximum value of SAR (measured) = 0.178 mW/g



39 WCDMA V_RMC 12.2K_Right Cheek_Ch4132_Battery#2

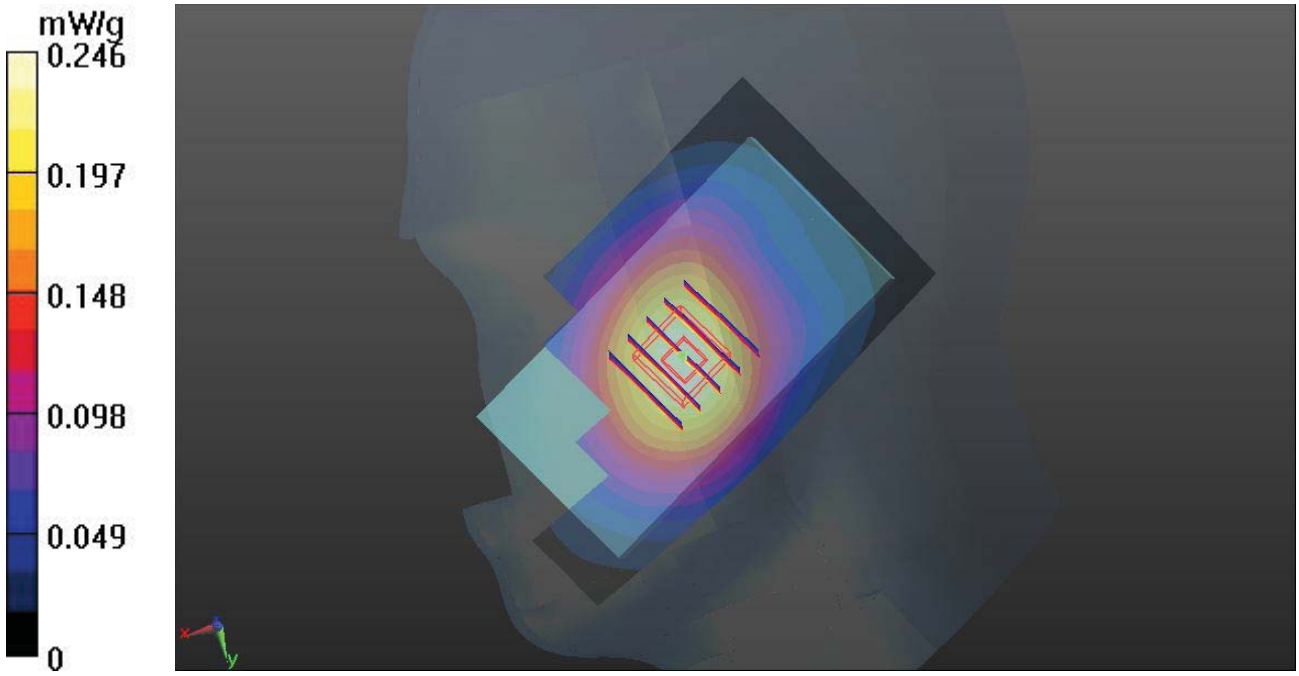
DUT: 240601

Communication System: UMTS; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium: HSL_835_120502 Medium parameters used: f = 826.5 MHz; σ = 0.89 mho/m; ε_r = 40.863; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃; Liquid Temperature：21.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(9.4, 9.4, 9.4); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch4132/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.246 mW/g

Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.849 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.2900
SAR(1 g) = 0.237 mW/g; SAR(10 g) = 0.181 mW/g
Maximum value of SAR (measured) = 0.250 mW/g



40 WCDMA V_RMC 12.2K_Right Cheek_Ch4132_Battery#3

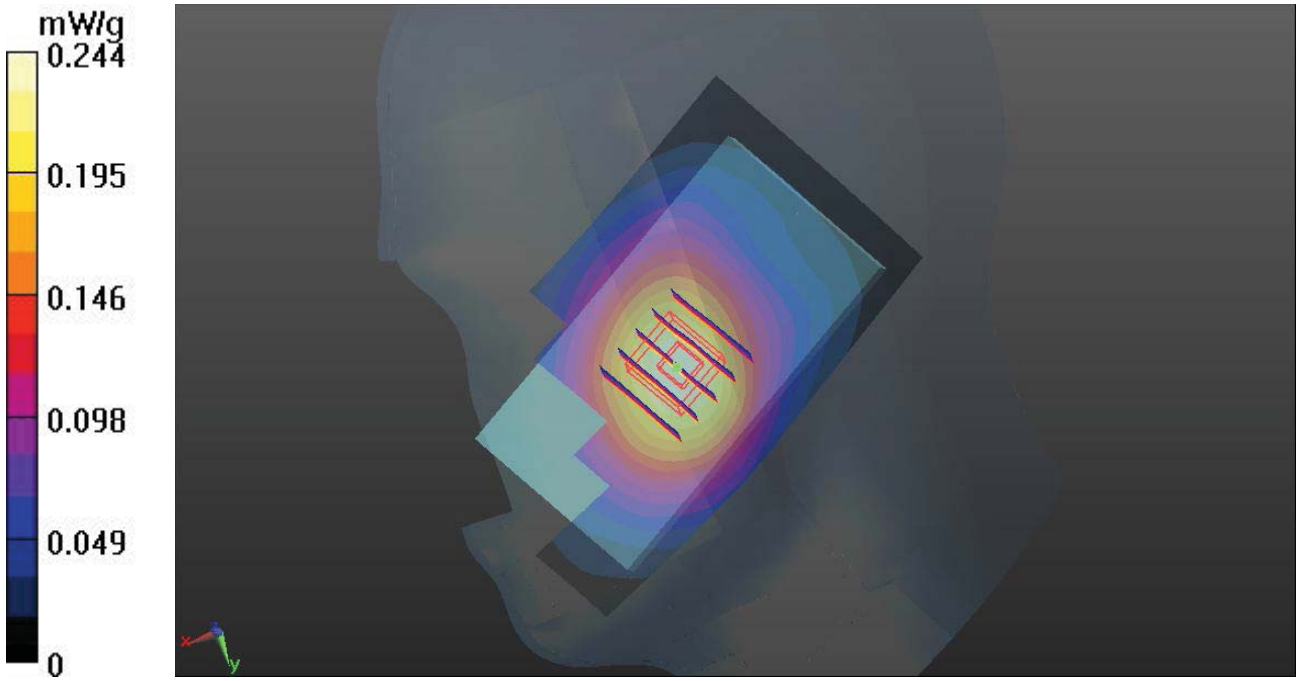
DUT: 240601

Communication System: UMTS; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium: HSL_835_120502 Medium parameters used: f = 826.5 MHz; σ = 0.89 mho/m; ε_r = 40.863; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃; Liquid Temperature：21.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(9.4, 9.4, 9.4); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch4132/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.244 mW/g

Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.654 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.2890
SAR(1 g) = 0.234 mW/g; SAR(10 g) = 0.177 mW/g
Maximum value of SAR (measured) = 0.246 mW/g



07 WCDMA II_RMC 12.2K_Right Cheek_Ch9262_Battery#1

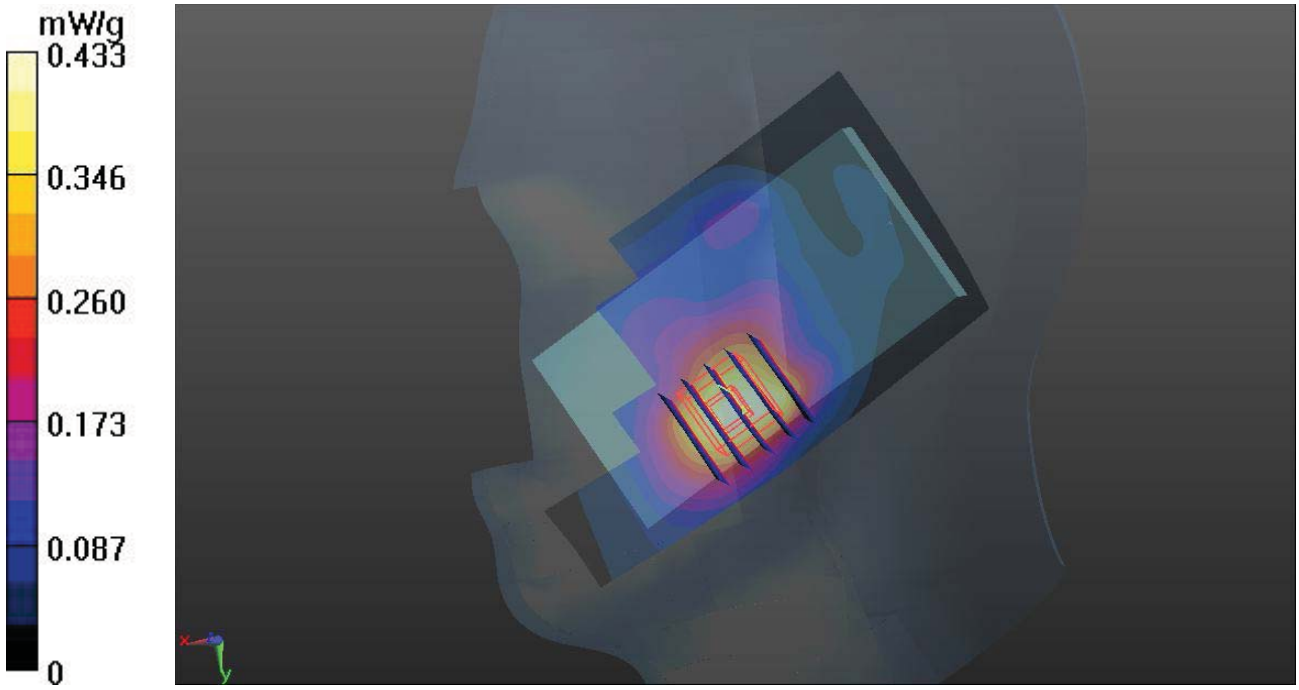
DUT: 240601

Communication System: UMTS; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium: HSL_1900_120502 Medium parameters used: f = 1852.4 MHz; σ = 1.396 mho/m; ε_r = 40.087; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：21.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(8.36, 8.36, 8.36); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch9262/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.433 mW/g

Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.111 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.5650
SAR(1 g) = 0.383 mW/g; SAR(10 g) = 0.248 mW/g
Maximum value of SAR (measured) = 0.397 mW/g



08 WCDMA II_RMC 12.2K_Right Tilted_Ch9262_Battery#1

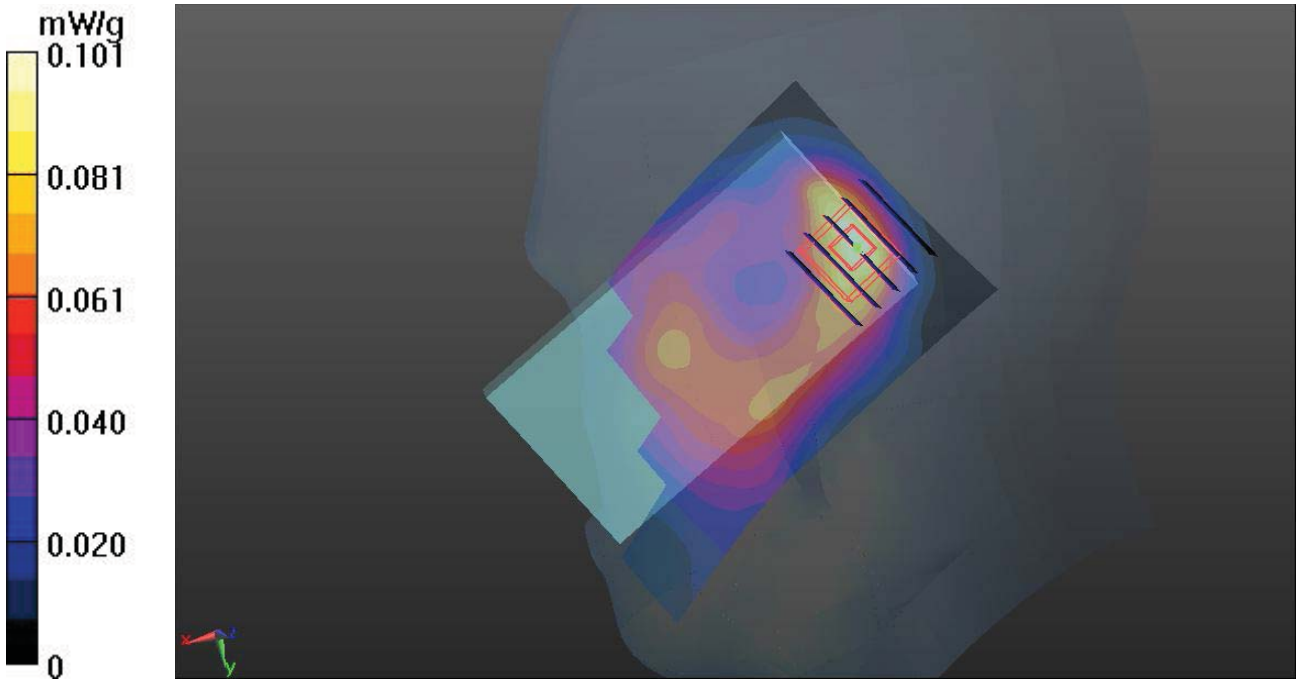
DUT: 240601

Communication System: UMTS; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium: HSL_1900_120502 Medium parameters used: f = 1852.4 MHz; σ = 1.396 mho/m; ε_r = 40.087; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃； Liquid Temperature：21.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(8.36, 8.36, 8.36); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch9262/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.101 mW/g

Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.317 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.1410
SAR(1 g) = 0.089 mW/g; SAR(10 g) = 0.052 mW/g
Maximum value of SAR (measured) = 0.100 mW/g



09 WCDMA II_RMC 12.2K_Left Cheek_Ch9262_Battery#1

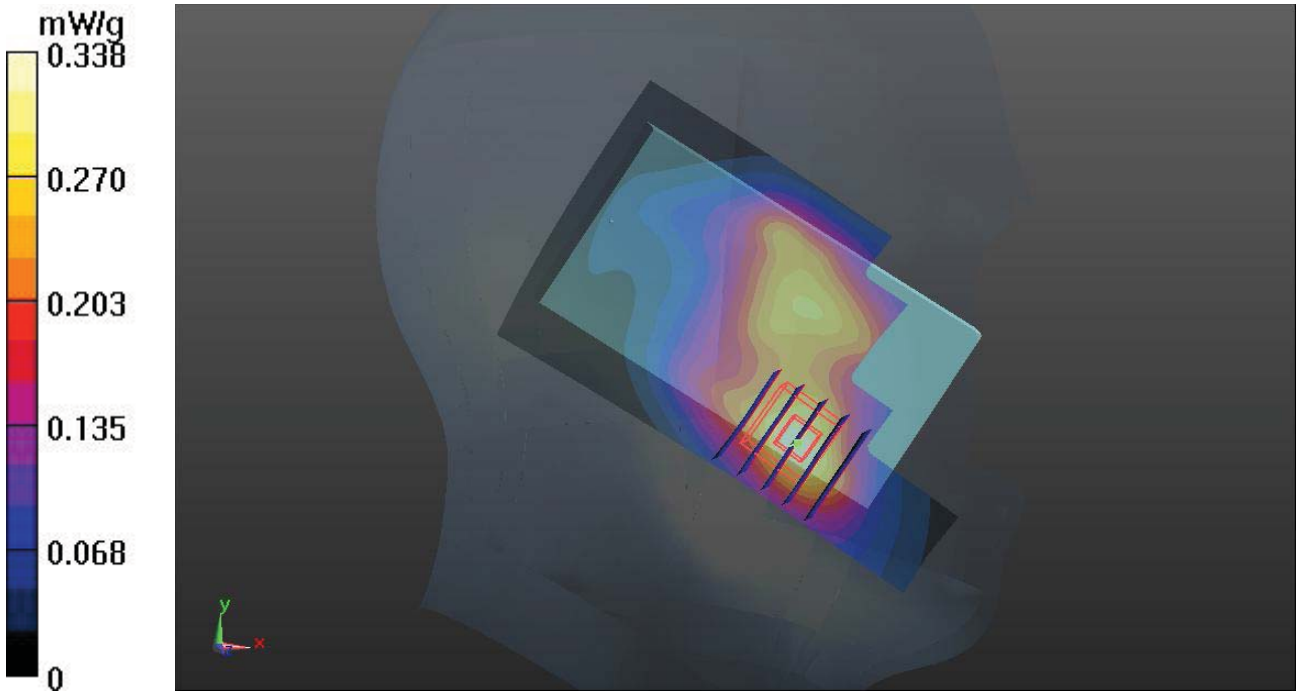
DUT: 240601

Communication System: UMTS; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium: HSL_1900_120502 Medium parameters used: f = 1852.4 MHz; σ = 1.396 mho/m; ε_r = 40.087; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：21.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(8.36, 8.36, 8.36); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch9262/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.338 mW/g

Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.095 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 0.5190
SAR(1 g) = 0.322 mW/g; SAR(10 g) = 0.190 mW/g
Maximum value of SAR (measured) = 0.354 mW/g



10 WCDMA II_RMC 12.2K_Left Tilted_Ch9262_Battery#1

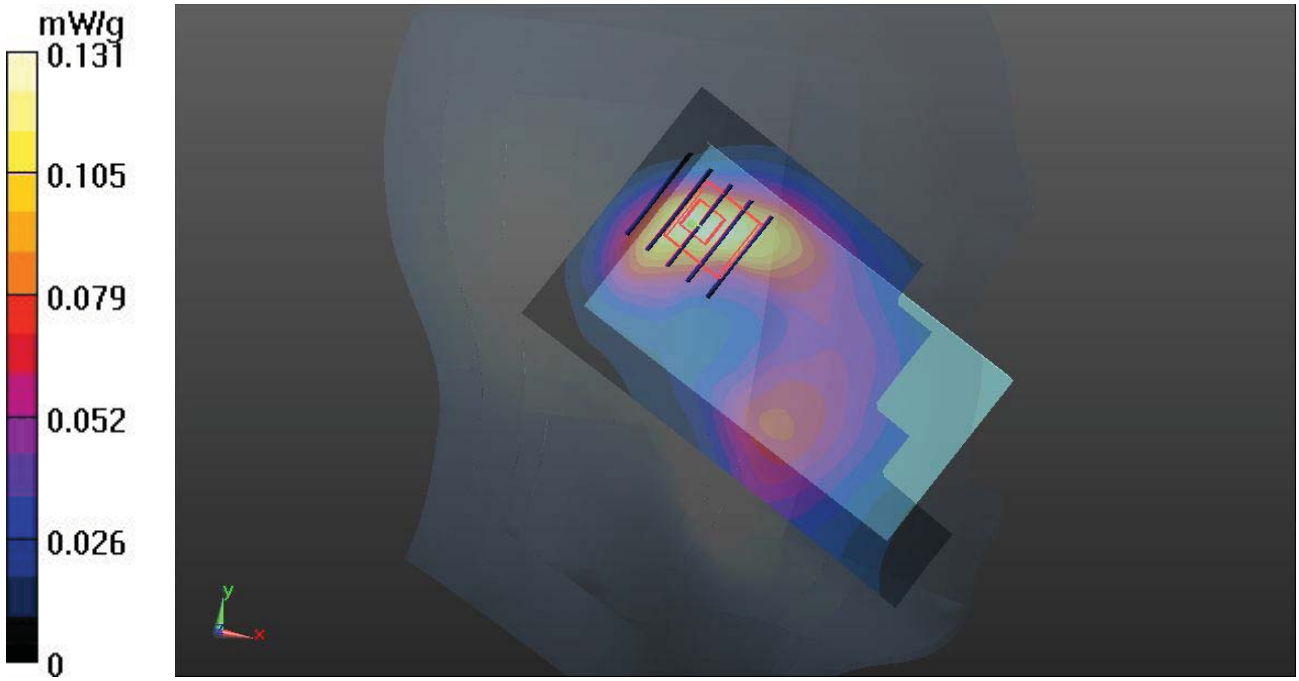
DUT: 240601

Communication System: UMTS; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium: HSL_1900_120502 Medium parameters used: f = 1852.4 MHz; σ = 1.396 mho/m; ε_r = 40.087; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：21.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(8.36, 8.36, 8.36); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch9262/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.131 mW/g

Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.728 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.1880
SAR(1 g) = 0.117 mW/g; SAR(10 g) = 0.069 mW/g
Maximum value of SAR (measured) = 0.128 mW/g



11 WCDMA II_RMC 12.2K_Right Cheek_Ch9262_Battery#2

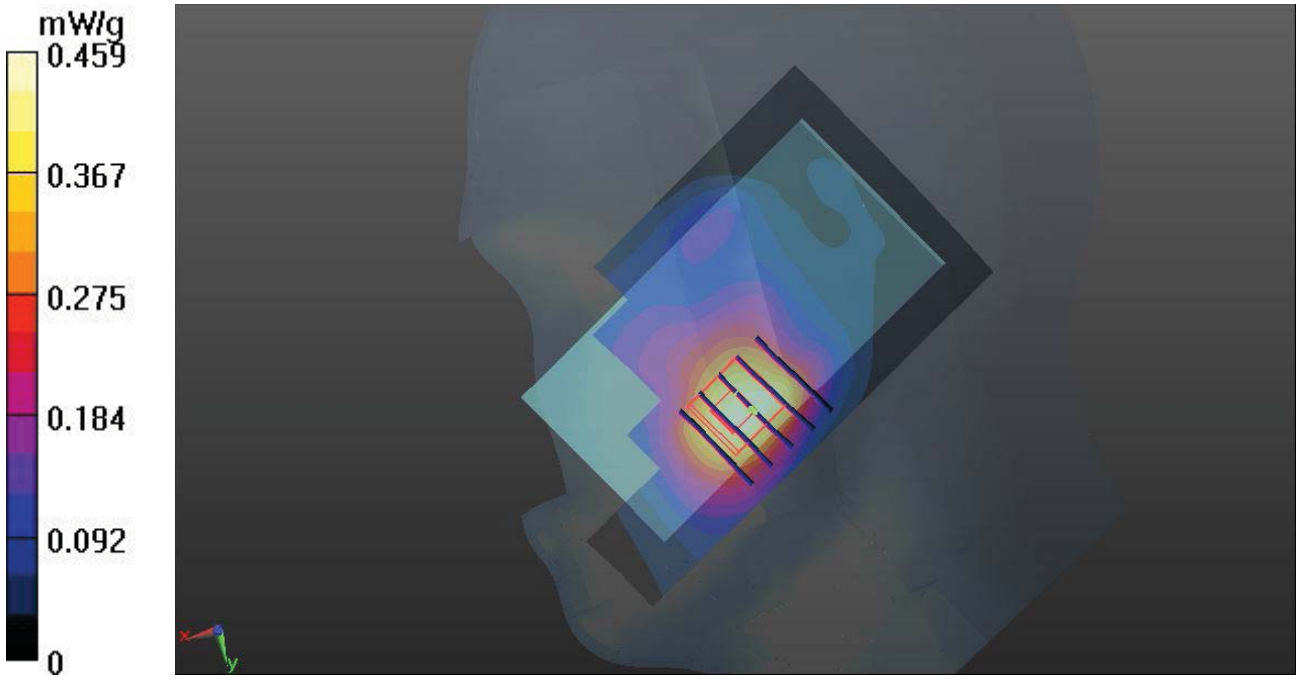
DUT: 240601

Communication System: UMTS; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium: HSL_1900_120502 Medium parameters used: f = 1852.4 MHz; σ = 1.396 mho/m; ε_r = 40.087; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃； Liquid Temperature：21.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(8.36, 8.36, 8.36); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch9262/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.459 mW/g

Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.101 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.5840
SAR(1 g) = 0.401 mW/g; SAR(10 g) = 0.261 mW/g
Maximum value of SAR (measured) = 0.422 mW/g



11 WCDMA II_RMC 12.2K_Right Cheek_Ch9262_Battery#2_2D

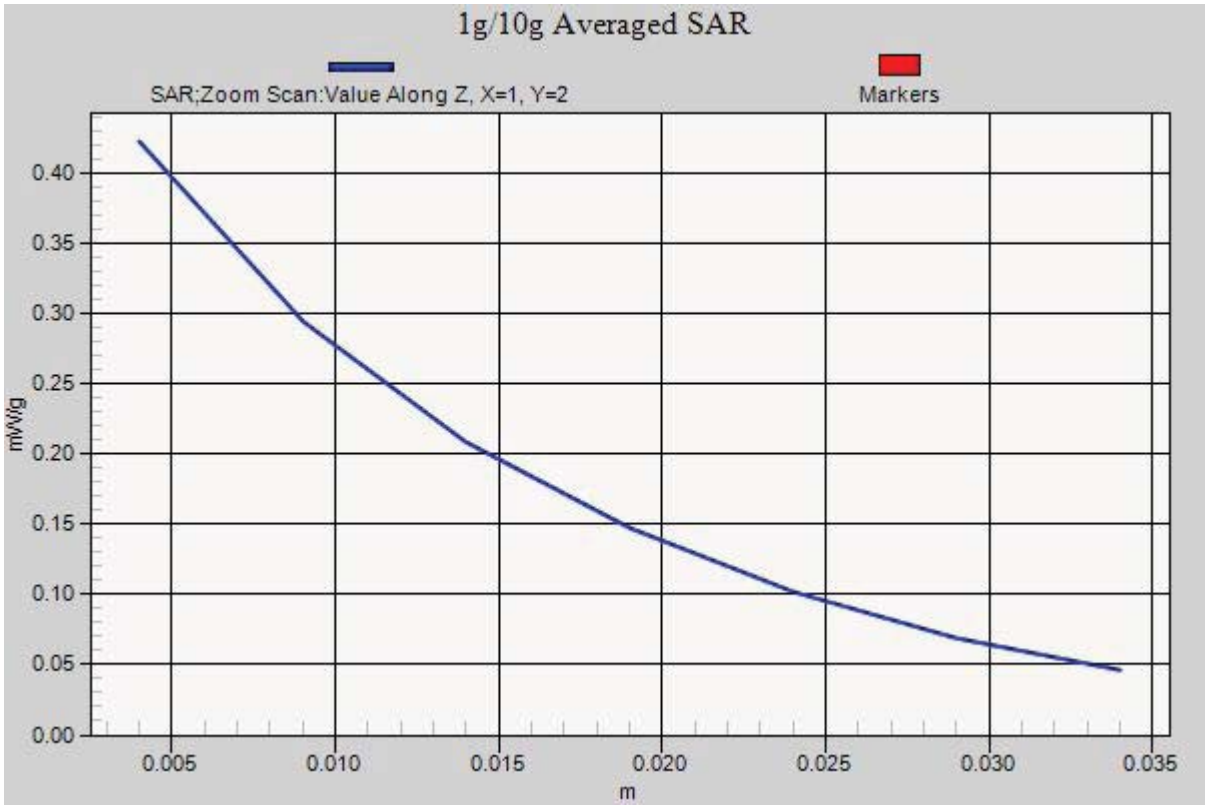
DUT: 240601

Communication System: UMTS; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium: HSL_1900_120502 Medium parameters used: f = 1852.4 MHz; σ = 1.396 mho/m; ε_r = 40.087; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃； Liquid Temperature：21.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(8.36, 8.36, 8.36); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch9262/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.459 mW/g

Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.101 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.5840
SAR(1 g) = 0.401 mW/g; SAR(10 g) = 0.261 mW/g
Maximum value of SAR (measured) = 0.422 mW/g



12 WCDMA II_RMC 12.2K_Right Cheek_Ch9262_Battery#3

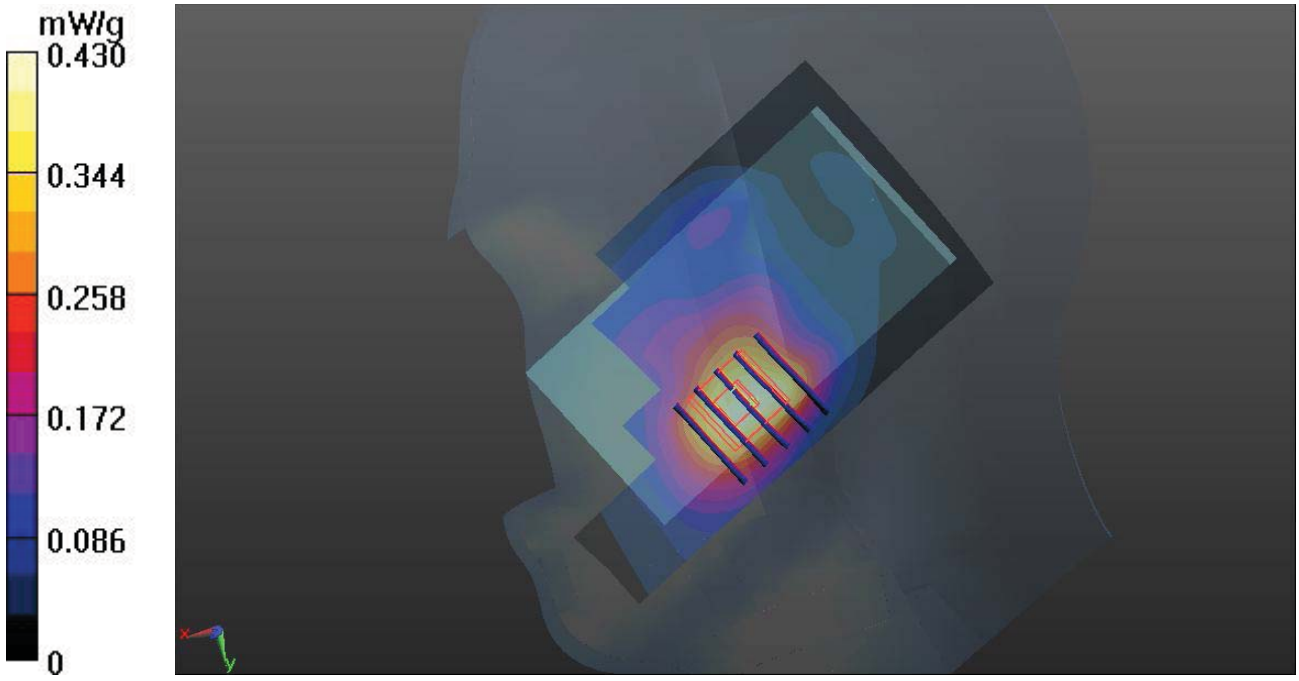
DUT: 240601

Communication System: UMTS; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium: HSL_1900_120502 Medium parameters used: f = 1852.4 MHz; σ = 1.396 mho/m; ε_r = 40.087; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：21.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(8.36, 8.36, 8.36); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch9262/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.430 mW/g

Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.558 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.5460
SAR(1 g) = 0.373 mW/g; SAR(10 g) = 0.243 mW/g
Maximum value of SAR (measured) = 0.387 mW/g



Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 03.05.2012

60 802.11b_Right Cheek_Ch1_Battery#1

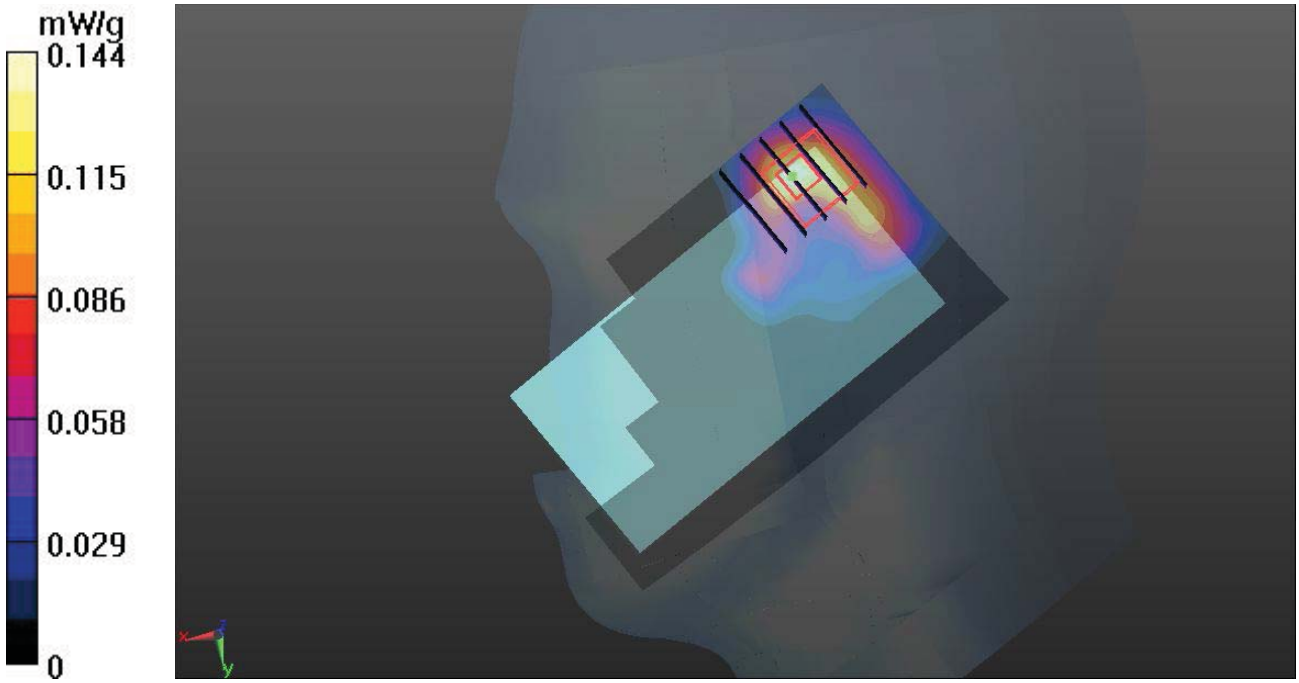
DUT: 240601

Communication System: WIFI; Frequency: 2412 MHz;Duty Cycle: 1:1
Medium: HSL_2450_120503 Medium parameters used: f = 2412 MHz; σ = 1.777 mho/m; ε_r = 39.891; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：21.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(7.33, 7.33, 7.33); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch1/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.144 mW/g

Ch1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.208 V/m; Power Drift = 0.00013 dB
Peak SAR (extrapolated) = 0.2570
SAR(1 g) = 0.118 mW/g; SAR(10 g) = 0.056 mW/g
Maximum value of SAR (measured) = 0.143 mW/g



61 802.11b_Right Tilted_Ch1_Battery#1

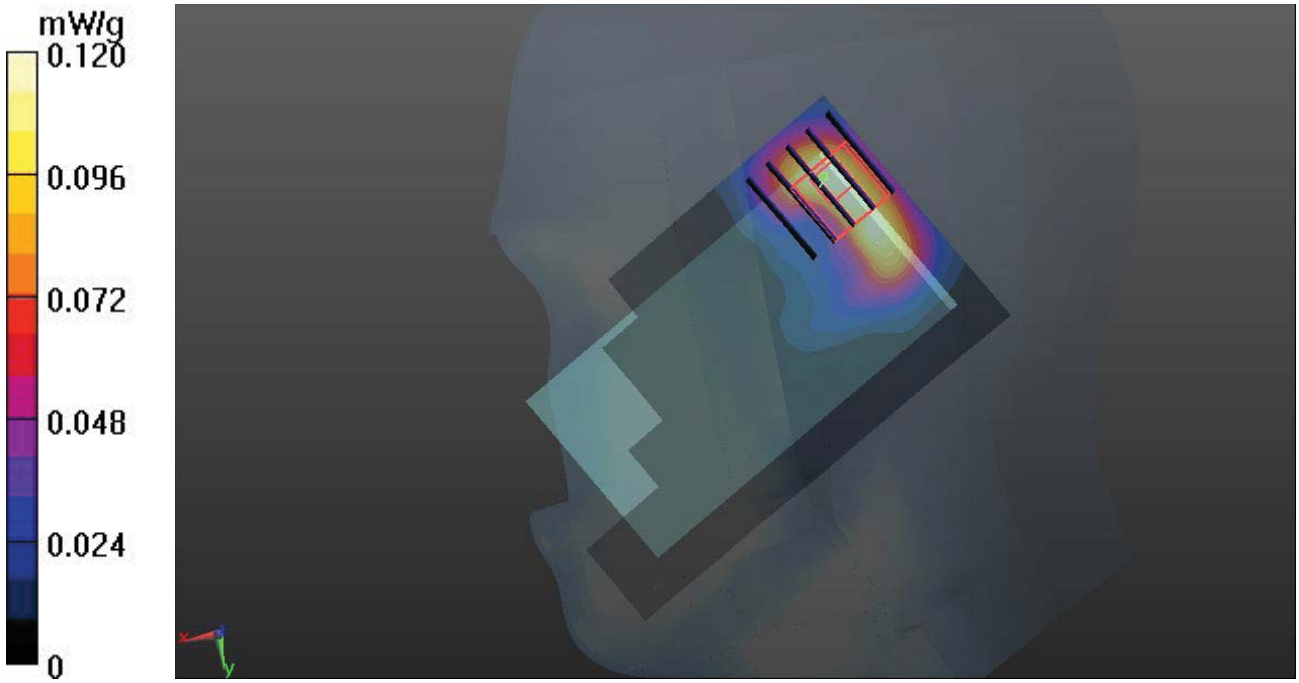
DUT: 240601

Communication System: WIFI; Frequency: 2412 MHz;Duty Cycle: 1:1
Medium: HSL_2450_120503 Medium parameters used: f = 2412 MHz; σ = 1.777 mho/m; ε_r = 39.891; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：21.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(7.33, 7.33, 7.33); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch1/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.120 mW/g

Ch1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.933 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 0.2310
SAR(1 g) = 0.109 mW/g; SAR(10 g) = 0.052 mW/g
Maximum value of SAR (measured) = 0.122 mW/g



Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 03.05.2012

62 802.11b_Left Cheek_Ch1_Battery#1

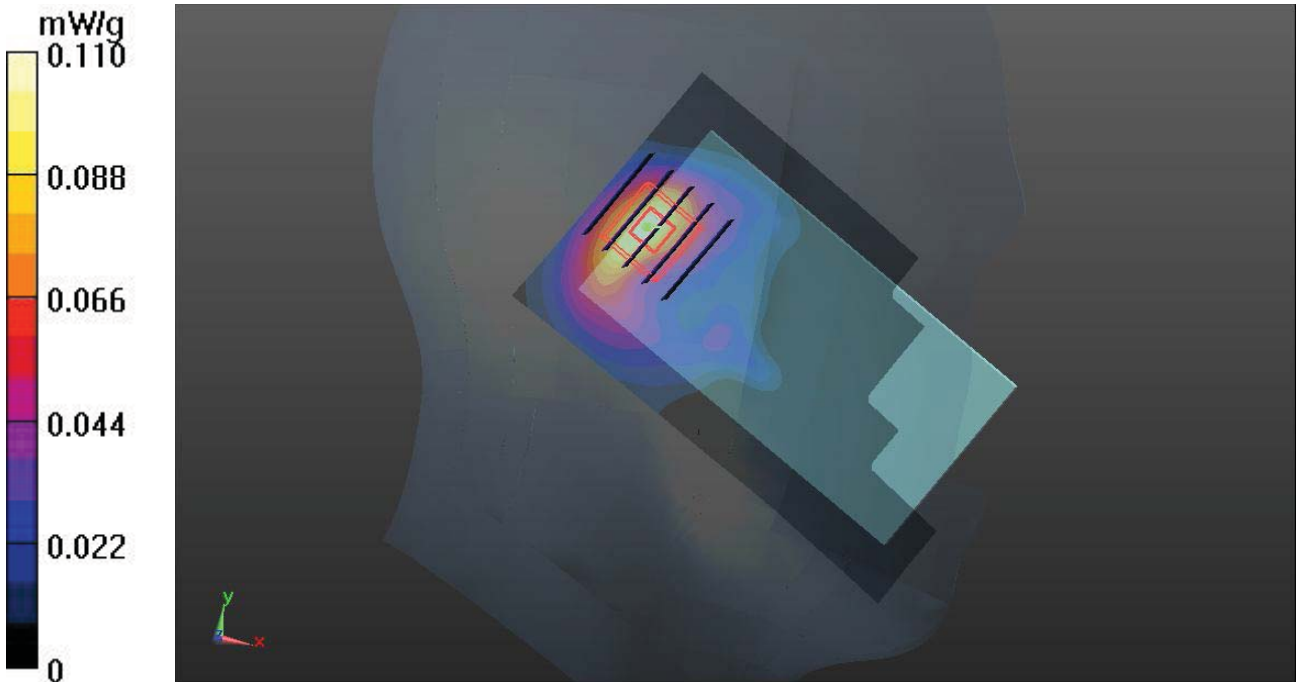
DUT: 240601

Communication System: WIFI; Frequency: 2412 MHz;Duty Cycle: 1:1
Medium: HSL_2450_120503 Medium parameters used: f = 2412 MHz; σ = 1.777 mho/m; ε_r = 39.891; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：21.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(7.33, 7.33, 7.33); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch1/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.110 mW/g

Ch1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.127 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.2110
SAR(1 g) = 0.106 mW/g; SAR(10 g) = 0.051 mW/g
Maximum value of SAR (measured) = 0.120 mW/g



Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 03.05.2012

63 802.11b_Left Tilted_Ch1_Battery#1

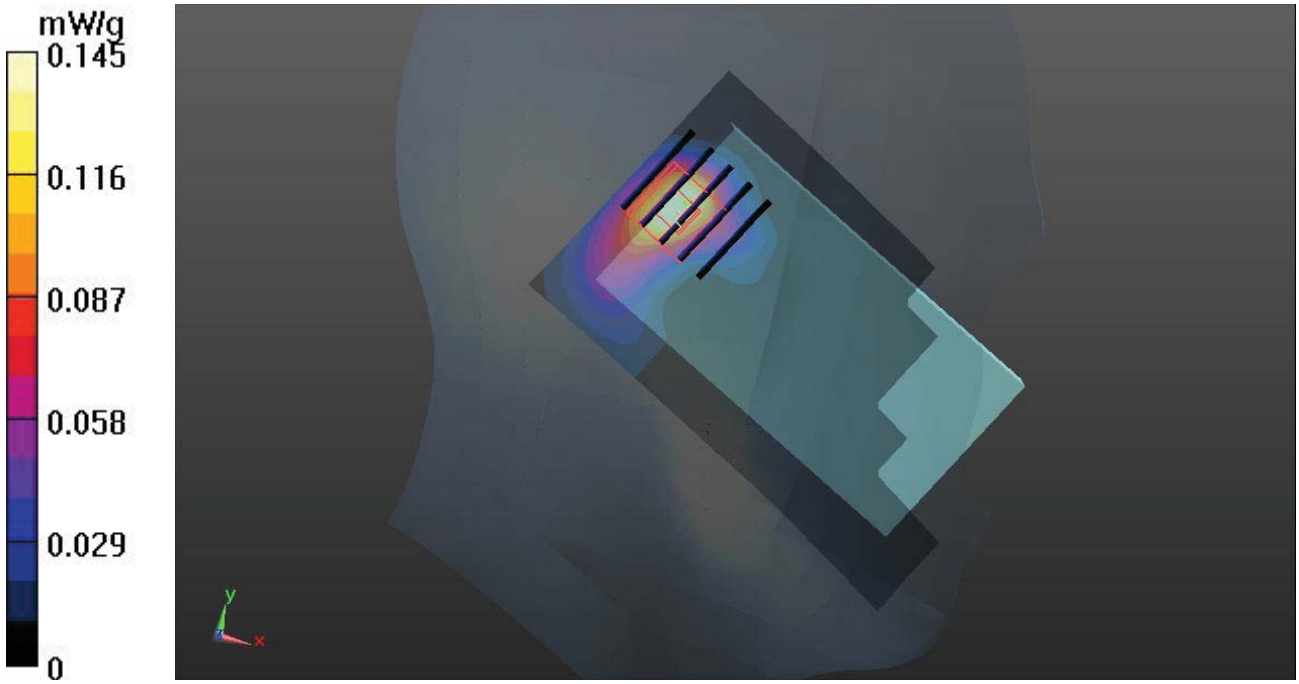
DUT: 240601

Communication System: WIFI; Frequency: 2412 MHz;Duty Cycle: 1:1
Medium: HSL_2450_120503 Medium parameters used: f = 2412 MHz; σ = 1.777 mho/m; ε_r = 39.891; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：21.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(7.33, 7.33, 7.33); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch1/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.145 mW/g

Ch1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.137 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.2580
SAR(1 g) = 0.128 mW/g; SAR(10 g) = 0.061 mW/g
Maximum value of SAR (measured) = 0.143 mW/g



63 802.11b_Left Tilted_Ch1_Battery#1_2D

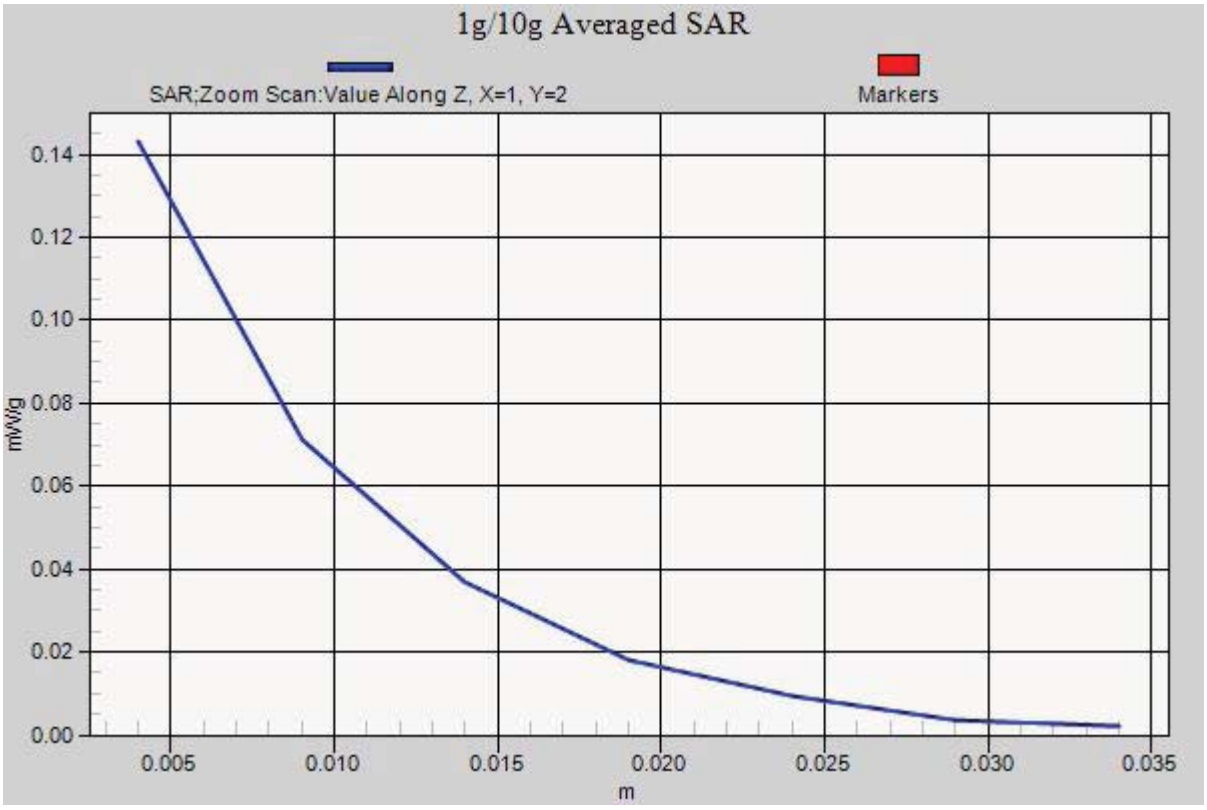
DUT: 240601

Communication System: WIFI; Frequency: 2412 MHz;Duty Cycle: 1:1
Medium: HSL_2450_120503 Medium parameters used: f = 2412 MHz; σ = 1.777 mho/m; ε_r = 39.891; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：21.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(7.33, 7.33, 7.33); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch1/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.145 mW/g

Ch1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.137 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.2580
SAR(1 g) = 0.128 mW/g; SAR(10 g) = 0.061 mW/g
Maximum value of SAR (measured) = 0.143 mW/g



Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 09.05.2012

64 802.11b_Left Tilted_Ch1_Battery#2

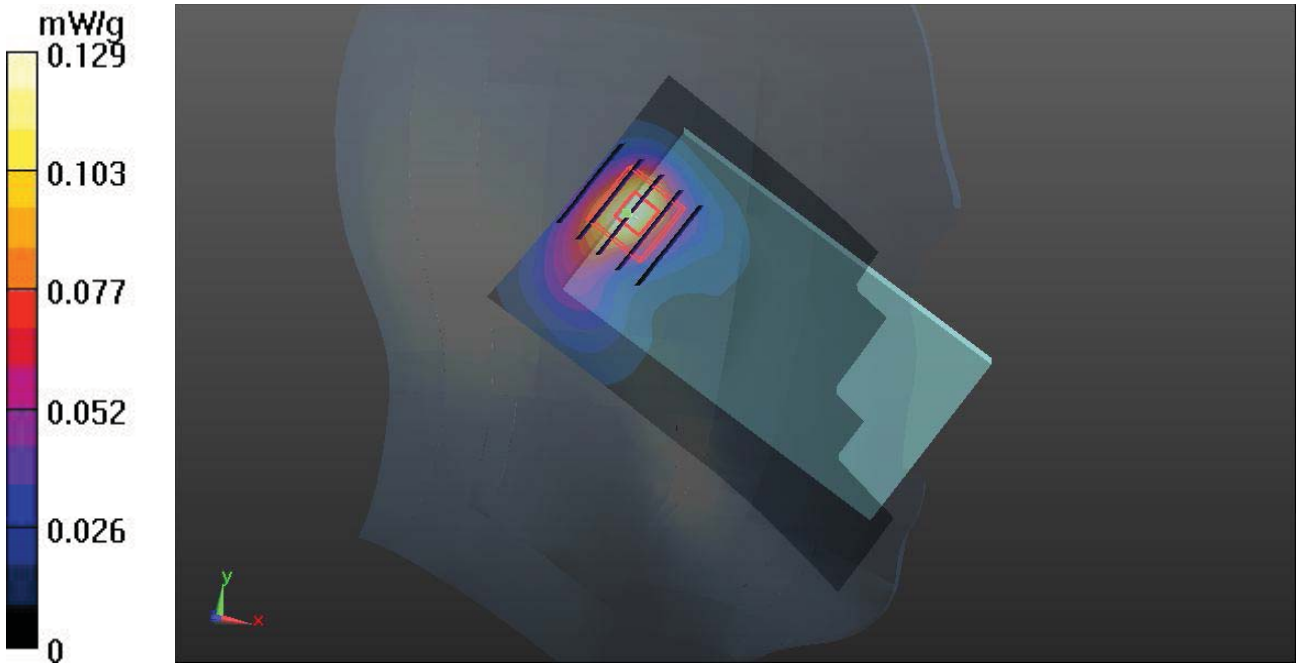
DUT: 240601

Communication System: WIFI; Frequency: 2412 MHz;Duty Cycle: 1:1
Medium: HSL_2450_120509 Medium parameters used: f = 2412 MHz; σ = 1.791 mho/m; ε_r = 39.777; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：21.3 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(4.52, 4.52, 4.52); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch1/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.129 mW/g

Ch1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.989 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 0.2470
SAR(1 g) = 0.122 mW/g; SAR(10 g) = 0.058 mW/g
Maximum value of SAR (measured) = 0.139 mW/g



Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 09.05.2012

65 802.11b_Left Tilted_Ch1_Battery#3

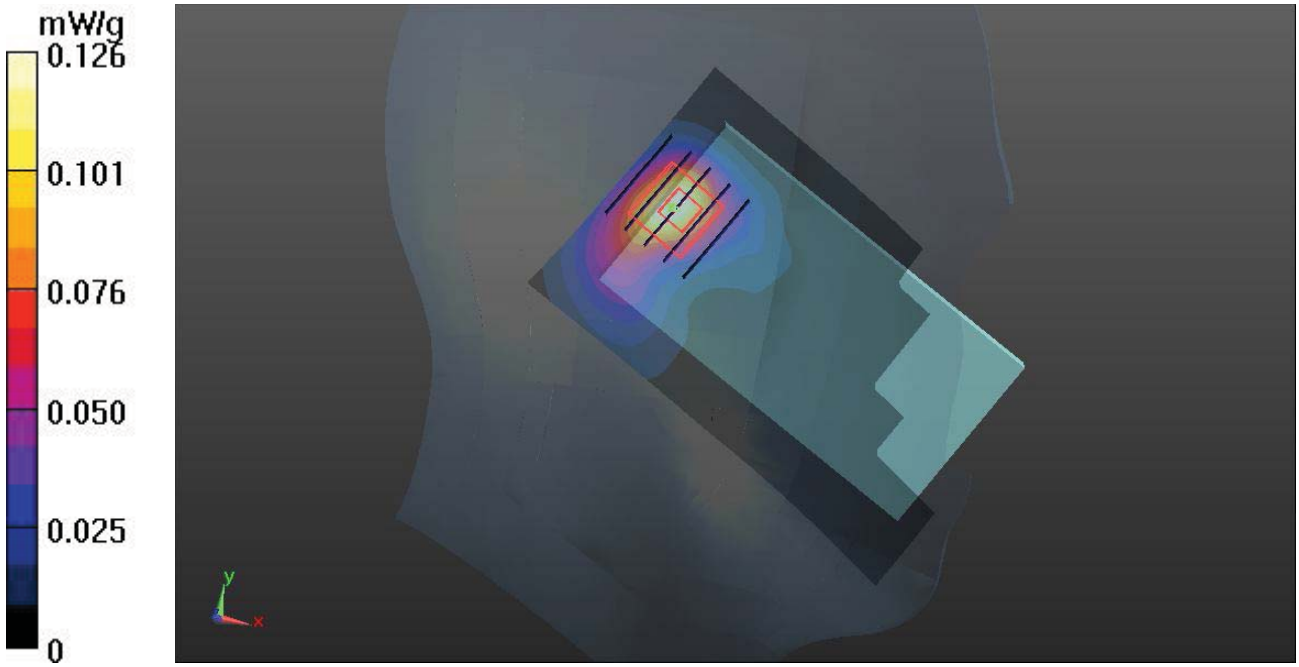
DUT: 240601

Communication System: WIFI; Frequency: 2412 MHz;Duty Cycle: 1:1
Medium: HSL_2450_120509 Medium parameters used: f = 2412 MHz; σ = 1.791 mho/m; ε_r = 39.777; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：21.3 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(4.52, 4.52, 4.52); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch1/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.126 mW/g

Ch1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.990 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.2490
SAR(1 g) = 0.124 mW/g; SAR(10 g) = 0.059 mW/g
Maximum value of SAR (measured) = 0.142 mW/g



74 GSM850_GPRS10_Front_1cm_Ch128_Battery#1

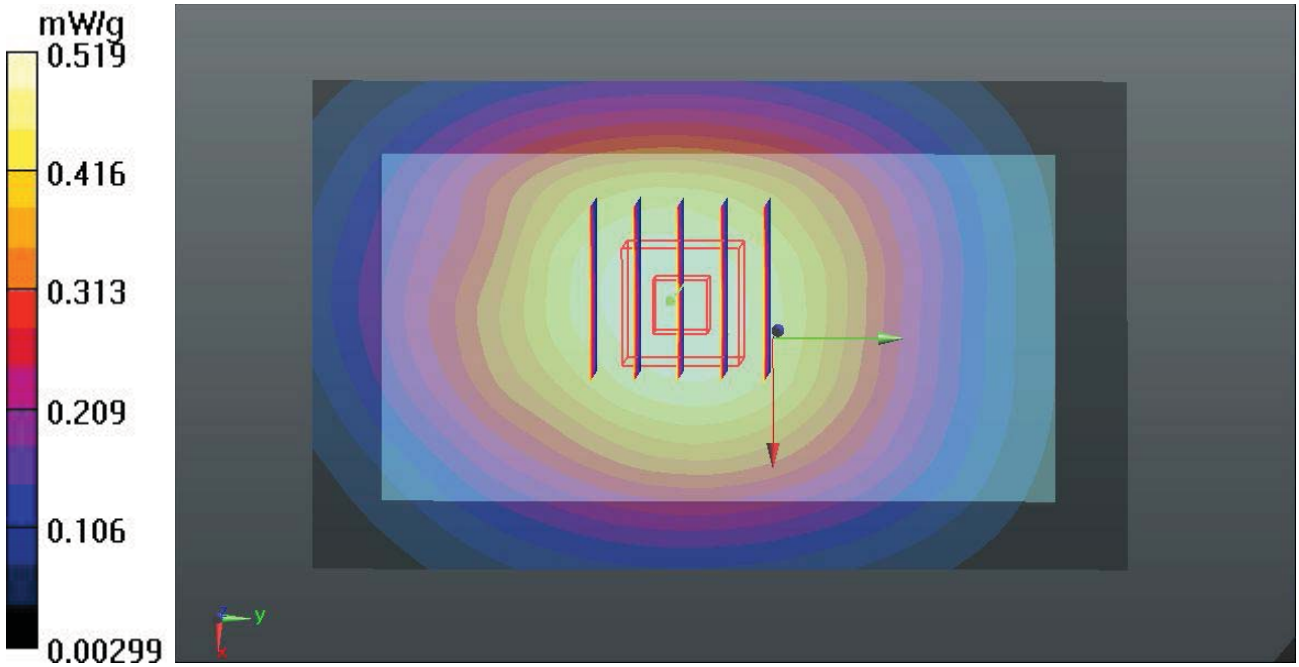
DUT: 240601

Communication System: GPRS/EDGE10; Frequency: 824.2 MHz;Duty Cycle: 1:4
Medium: MSL_835_120510 Medium parameters used: f = 824.2 MHz; σ = 0.959 mho/m; ε_r = 56.157; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：21.4 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(6.16, 6.16, 6.16); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch128/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.519 mW/g

Ch128/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.383 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 0.6140
SAR(1 g) = 0.489 mW/g; SAR(10 g) = 0.375 mW/g
Maximum value of SAR (measured) = 0.511 mW/g



75 GSM850_GPRS10_Back_1cm_Ch128_Battery#1

DUT: 240601

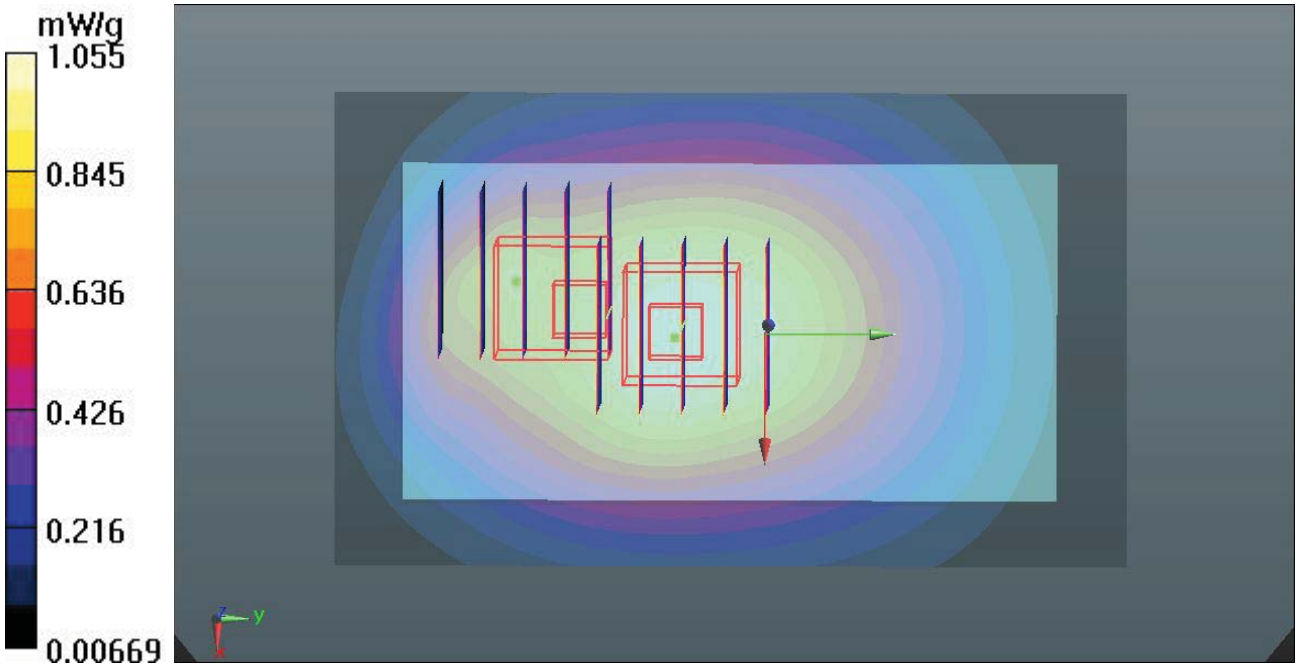
Communication System: GPRS/EDGE10; Frequency: 824.2 MHz;Duty Cycle: 1:4
Medium: MSL_835_120510 Medium parameters used: f = 824.2 MHz; σ = 0.959 mho/m; ε_r = 56.157; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：21.4 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(6.16, 6.16, 6.16); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch128/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.055 mW/g

Ch128/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 33.261 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 1.2980
SAR(1 g) = 1 mW/g; SAR(10 g) = 0.742 mW/g
Maximum value of SAR (measured) = 1.054 mW/g

Ch128/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 33.261 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 1.2030
SAR(1 g) = 0.823 mW/g; SAR(10 g) = 0.575 mW/g
Maximum value of SAR (measured) = 0.952 mW/g



76 GSM850_GPRS10_Left Side_1cm_Ch128_Battery#1

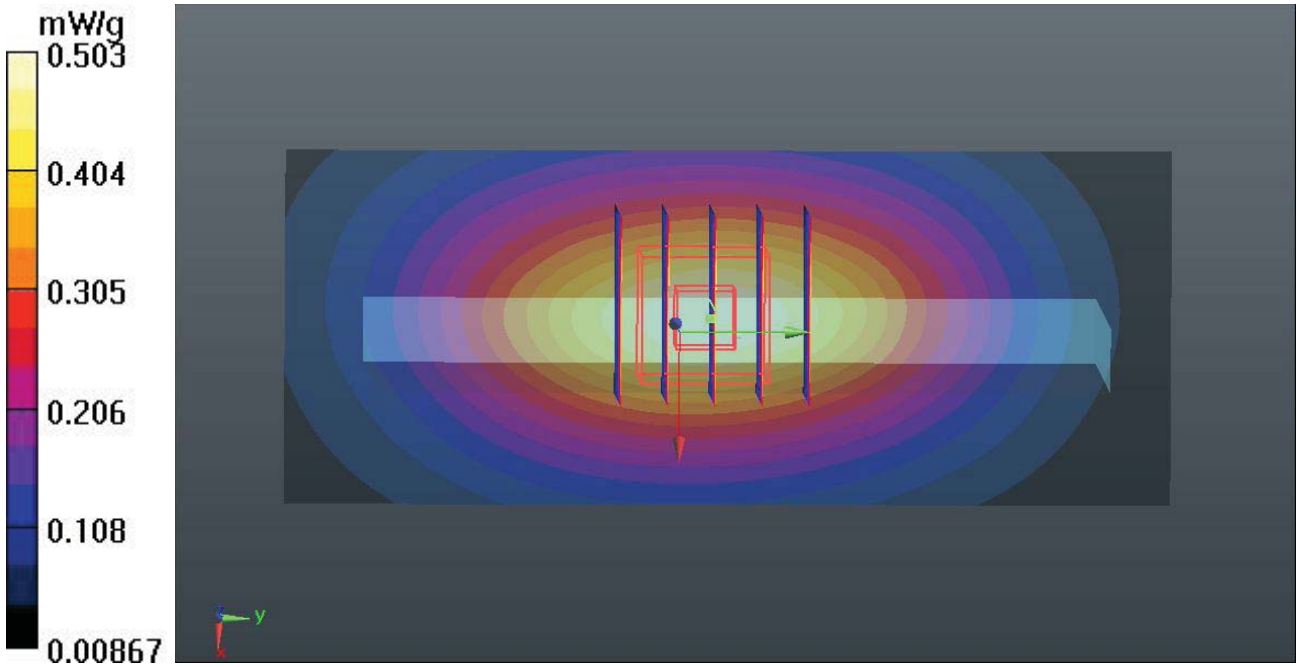
DUT: 240601

Communication System: GPRS/EDGE10; Frequency: 824.2 MHz;Duty Cycle: 1:4
Medium: MSL_835_120510 Medium parameters used: f = 824.2 MHz; σ = 0.959 mho/m; ε_r = 56.157; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：21.4 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(6.16, 6.16, 6.16); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch128/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.503 mW/g

Ch128/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.023 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.6800
SAR(1 g) = 0.469 mW/g; SAR(10 g) = 0.318 mW/g
Maximum value of SAR (measured) = 0.502 mW/g



77 GSM850_GPRS10_Right Side_1cm_Ch128_Battery#1

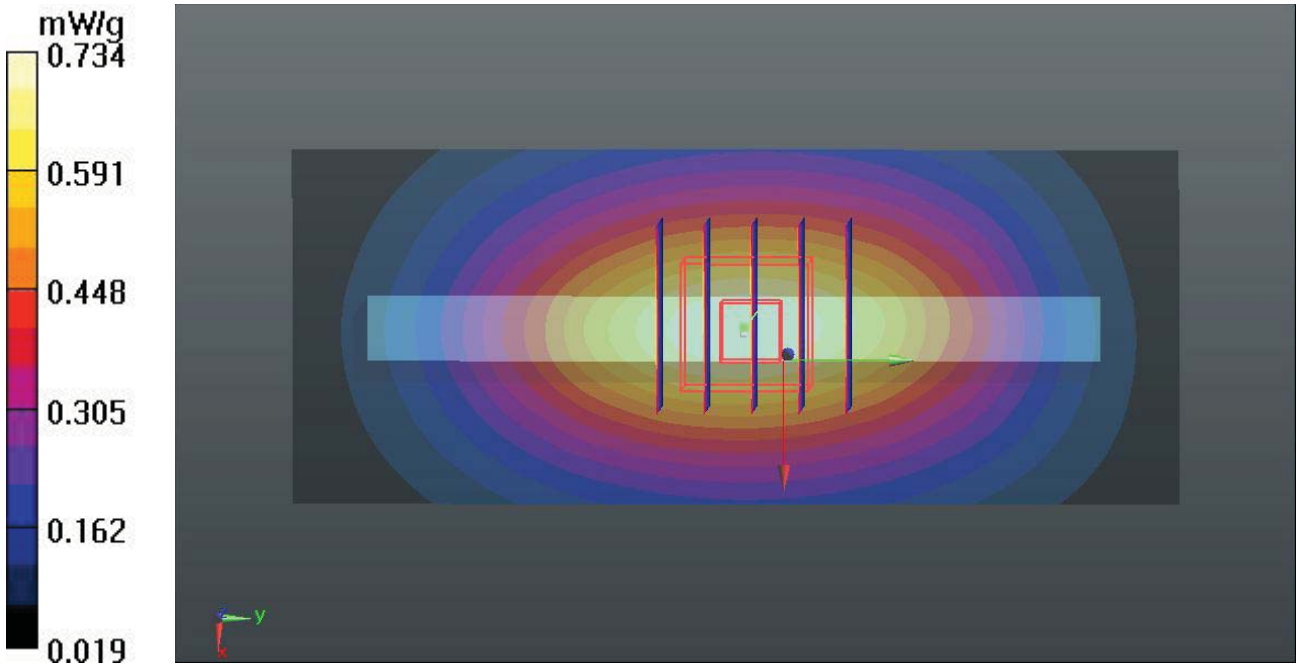
DUT: 240601

Communication System: GPRS/EDGE10; Frequency: 824.2 MHz;Duty Cycle: 1:4
Medium: MSL_835_120510 Medium parameters used: f = 824.2 MHz; σ = 0.959 mho/m; ε_r = 56.157; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：21.4 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(6.16, 6.16, 6.16); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch128/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.734 mW/g

Ch128/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.741 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.9840
SAR(1 g) = 0.685 mW/g; SAR(10 g) = 0.471 mW/g
Maximum value of SAR (measured) = 0.728 mW/g



78 GSM850_GPRS10_Bottom Side_1cm_Ch128_Battery#1

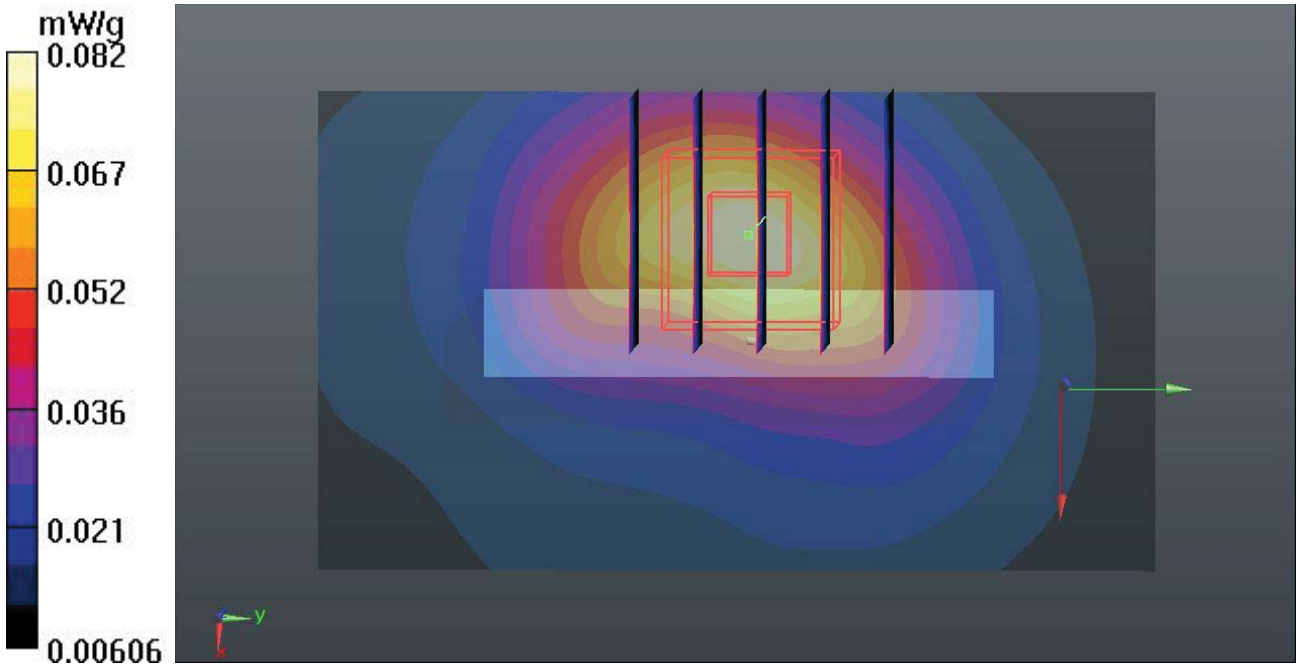
DUT: 240601

Communication System: GPRS/EDGE10; Frequency: 824.2 MHz;Duty Cycle: 1:4
Medium: MSL_835_120510 Medium parameters used: f = 824.2 MHz; σ = 0.959 mho/m; ε_r = 56.157; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：21.4 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(6.16, 6.16, 6.16); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch128/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.082 mW/g

Ch128/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.989 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.1200
SAR(1 g) = 0.074 mW/g; SAR(10 g) = 0.045 mW/g
Maximum value of SAR (measured) = 0.080 mW/g



79 GSM850_GPRS10_Back_1cm_Ch189_Battery#1

DUT: 240601

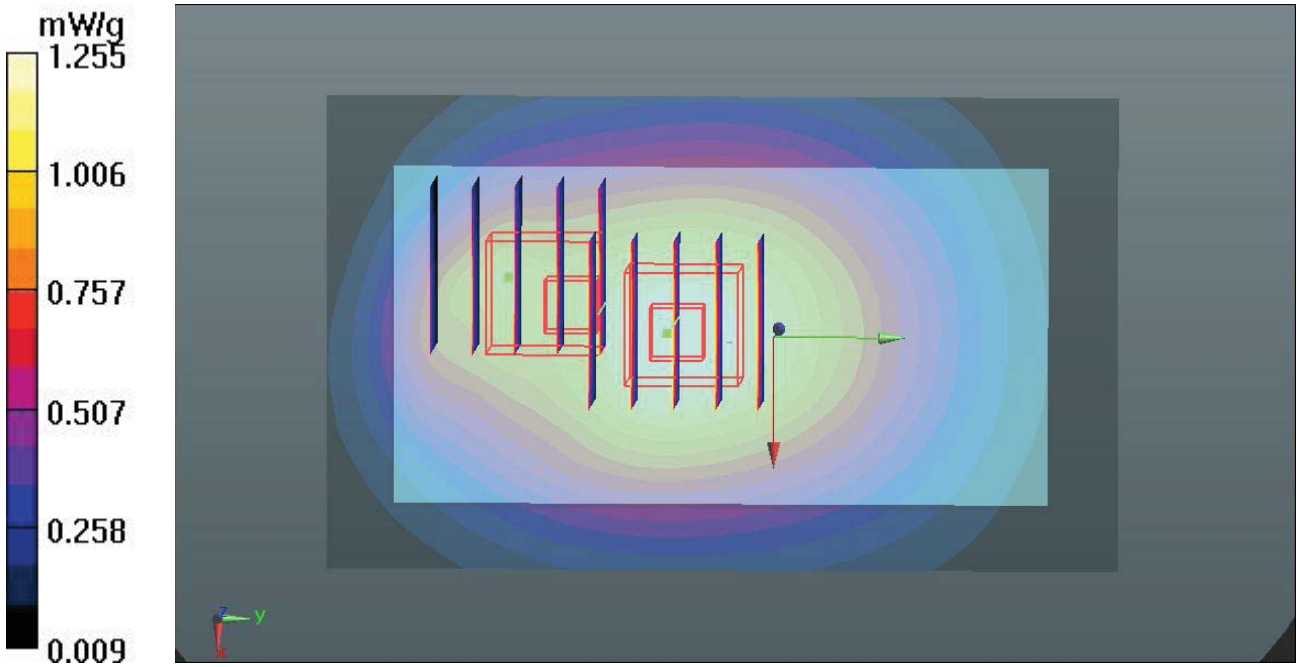
Communication System: GPRS/EDGE10; Frequency: 836.4 MHz;Duty Cycle: 1:4
Medium: MSL_835_120510 Medium parameters used: f = 836.4 MHz; σ = 0.97 mho/m; ε_r = 56.057; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：21.4 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(6.16, 6.16, 6.16); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch189/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.255 mW/g

Ch189/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 35.709 V/m; Power Drift = -0.0075 dB
Peak SAR (extrapolated) = 1.5530
SAR(1 g) = 1.2 mW/g; SAR(10 g) = 0.888 mW/g
Maximum value of SAR (measured) = 1.263 mW/g

Ch189/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 35.709 V/m; Power Drift = -0.0075 dB
Peak SAR (extrapolated) = 1.4600
SAR(1 g) = 0.969 mW/g; SAR(10 g) = 0.676 mW/g
Maximum value of SAR (measured) = 1.125 mW/g



80 GSM850_GPRS10_Back_1cm_Ch251_Battery#1

DUT: 240601

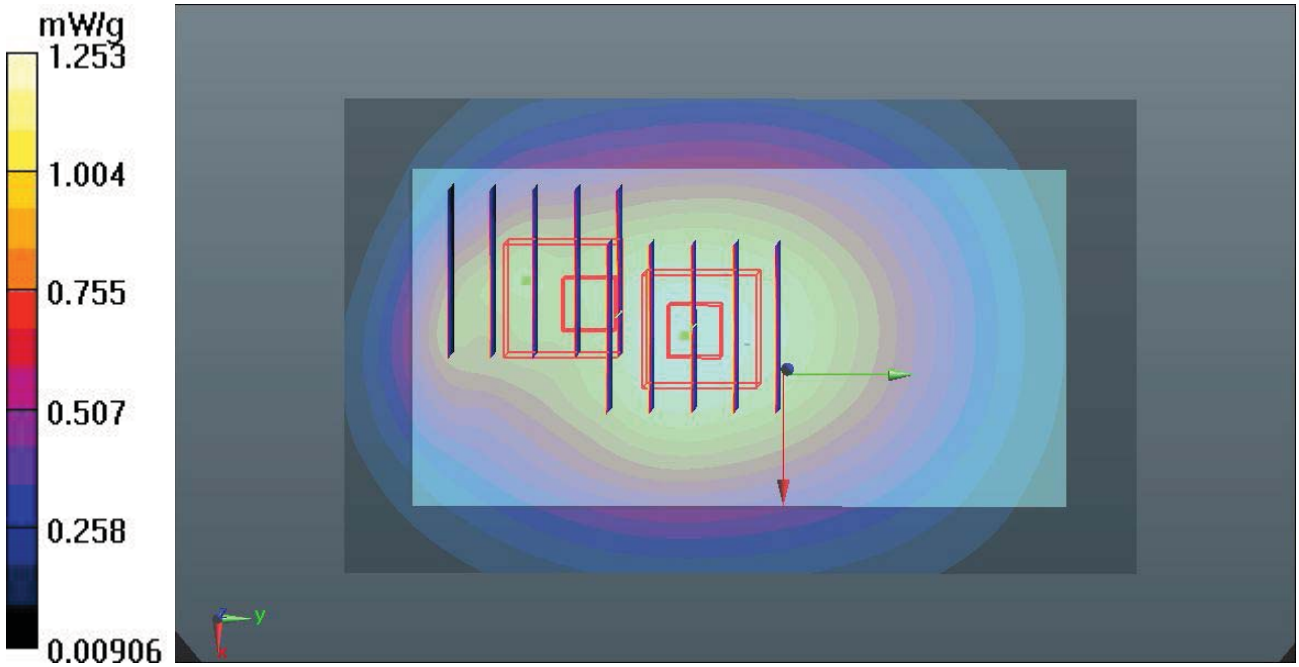
Communication System: GPRS/EDGE10; Frequency: 848.8 MHz;Duty Cycle: 1:4
Medium: MSL_835_120510 Medium parameters used: f = 849 MHz; σ = 0.982 mho/m; ε_r = 55.937; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：21.4 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(6.16, 6.16, 6.16); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch251/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.253 mW/g

Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 35.521 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 1.7290
SAR(1 g) = 1.17 mW/g; SAR(10 g) = 0.870 mW/g
Maximum value of SAR (measured) = 1.234 mW/g

Ch251/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 35.521 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 1.5150
SAR(1 g) = 0.960 mW/g; SAR(10 g) = 0.667 mW/g
Maximum value of SAR (measured) = 1.106 mW/g



81 GSM850_GPRS10_Back_1cm_Ch189_Battery#2

DUT: 240601

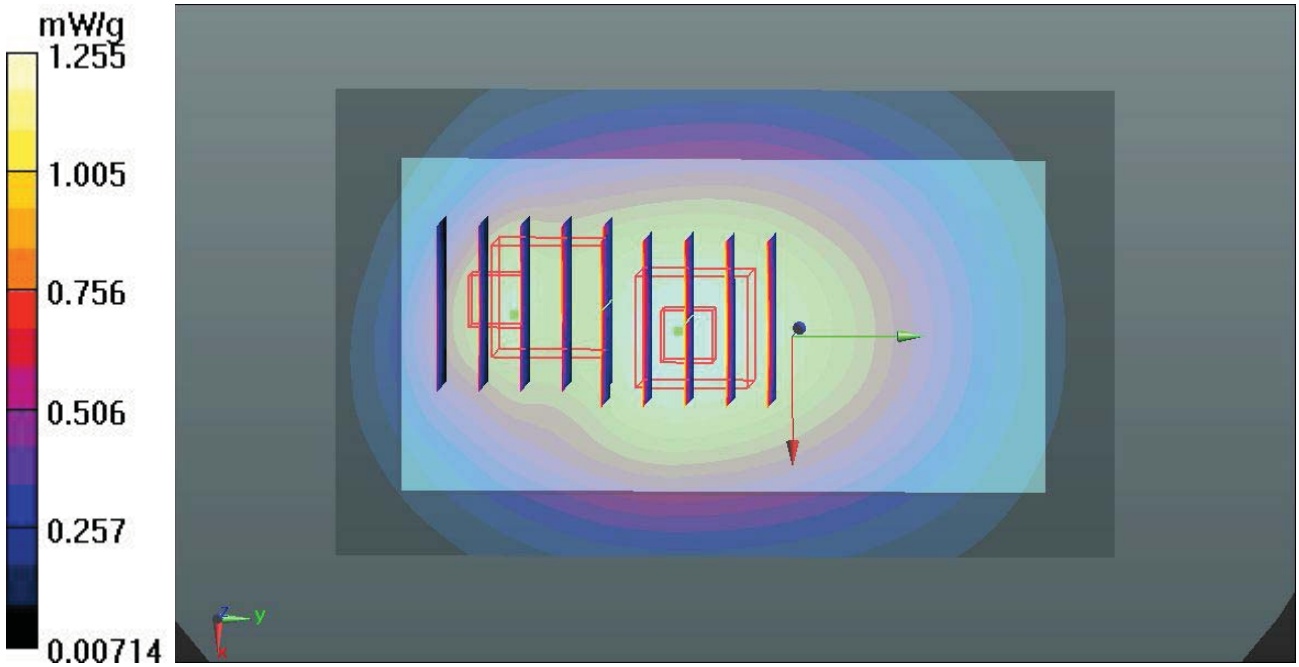
Communication System: GPRS/EDGE10; Frequency: 836.4 MHz;Duty Cycle: 1:4
Medium: MSL_835_120510 Medium parameters used: f = 836.4 MHz; σ = 0.97 mho/m; ε_r = 56.057; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：21.4 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(6.16, 6.16, 6.16); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch189/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.255 mW/g

Ch189/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 36.073 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 1.5600
SAR(1 g) = 1.19 mW/g; SAR(10 g) = 0.885 mW/g
Maximum value of SAR (measured) = 1.247 mW/g

Ch189/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 36.073 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 1.5440
SAR(1 g) = 0.939 mW/g; SAR(10 g) = 0.662 mW/g
Maximum value of SAR (measured) = 1.087 mW/g



82 GSM850_GPRS10_Back_1cm_Ch189_Battery#3

DUT: 240601

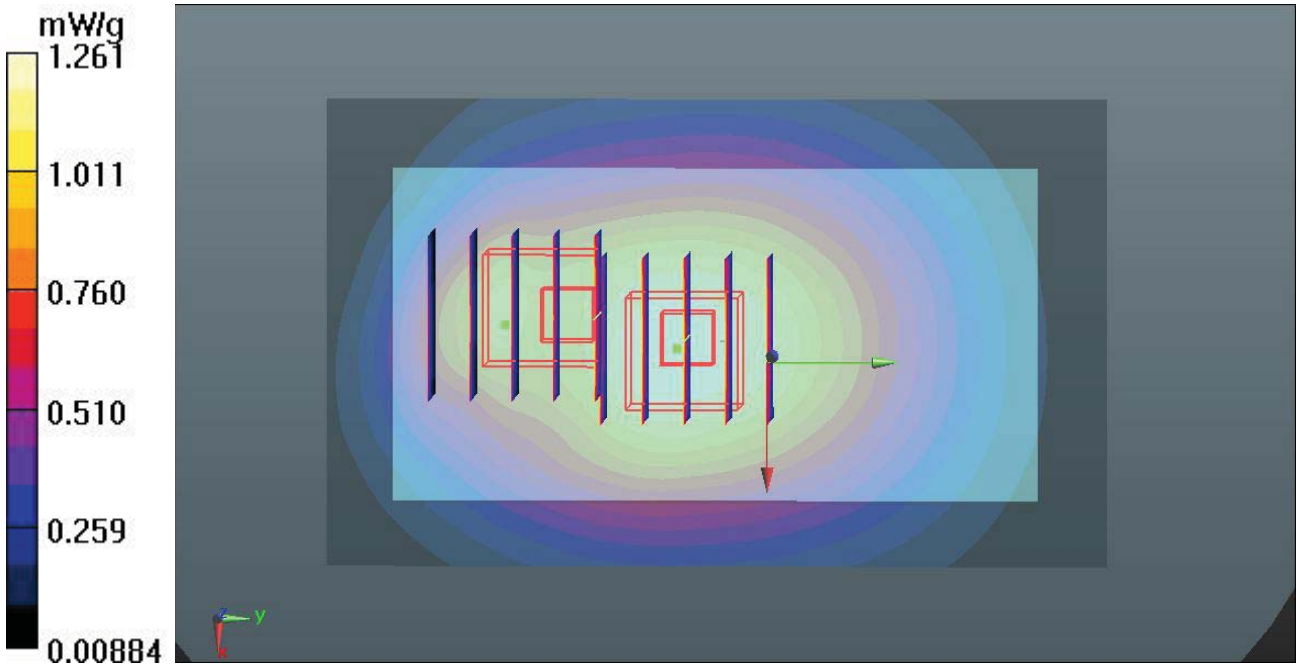
Communication System: GPRS/EDGE10; Frequency: 836.4 MHz;Duty Cycle: 1:4
Medium: MSL_835_120510 Medium parameters used: f = 836.4 MHz; σ = 0.97 mho/m; ε_r = 56.057; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：21.4 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(6.16, 6.16, 6.16); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch189/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.261 mW/g

Ch189/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 36.300 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 1.6960
SAR(1 g) = 1.24 mW/g; SAR(10 g) = 0.882 mW/g
Maximum value of SAR (measured) = 1.249 mW/g

Ch189/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 36.300 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 1.4480
SAR(1 g) = 0.936 mW/g; SAR(10 g) = 0.658 mW/g
Maximum value of SAR (measured) = 1.086 mW/g



82 GSM850_GPRS10_Back_1cm_Ch189_Battery#3_2D

DUT: 240601

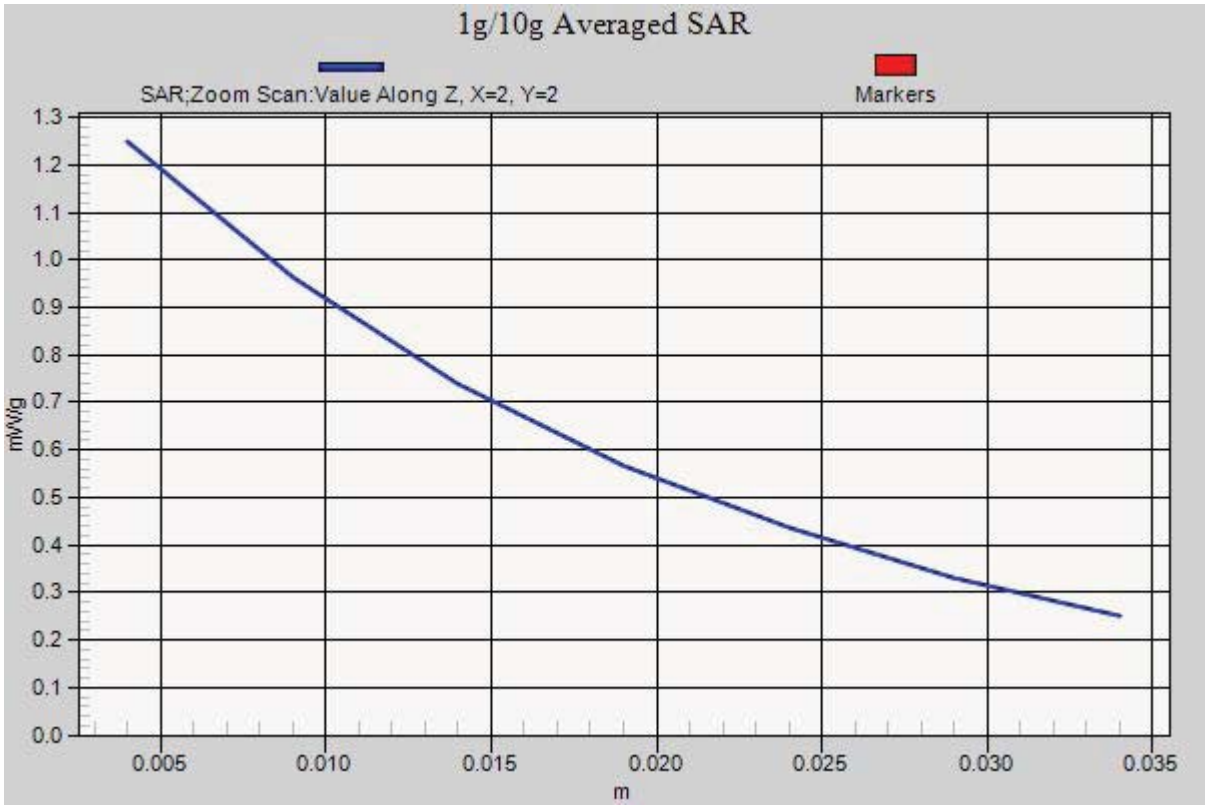
Communication System: GPRS/EDGE10; Frequency: 836.4 MHz;Duty Cycle: 1:4
Medium: MSL_835_120510 Medium parameters used: f = 836.4 MHz; σ = 0.97 mho/m; ε_r = 56.057; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：21.4 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(6.16, 6.16, 6.16); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch189/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.261 mW/g

Ch189/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 36.300 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 1.6960
SAR(1 g) = 1.24 mW/g; SAR(10 g) = 0.882 mW/g
Maximum value of SAR (measured) = 1.249 mW/g

Ch189/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 36.300 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 1.4480
SAR(1 g) = 0.936 mW/g; SAR(10 g) = 0.658 mW/g
Maximum value of SAR (measured) = 1.086 mW/g


1g/10g Averaged SAR
SAR;Zoom Scan:Value Along Z, X=2, Y=2
Markers
mW/g
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
0.005
0.010
0.015
0.020
0.025
0.030
0.035
m

84 GSM850_GPRS10_Back_1cm_Ch189_Battery#3_Quancheng

DUT: 240601

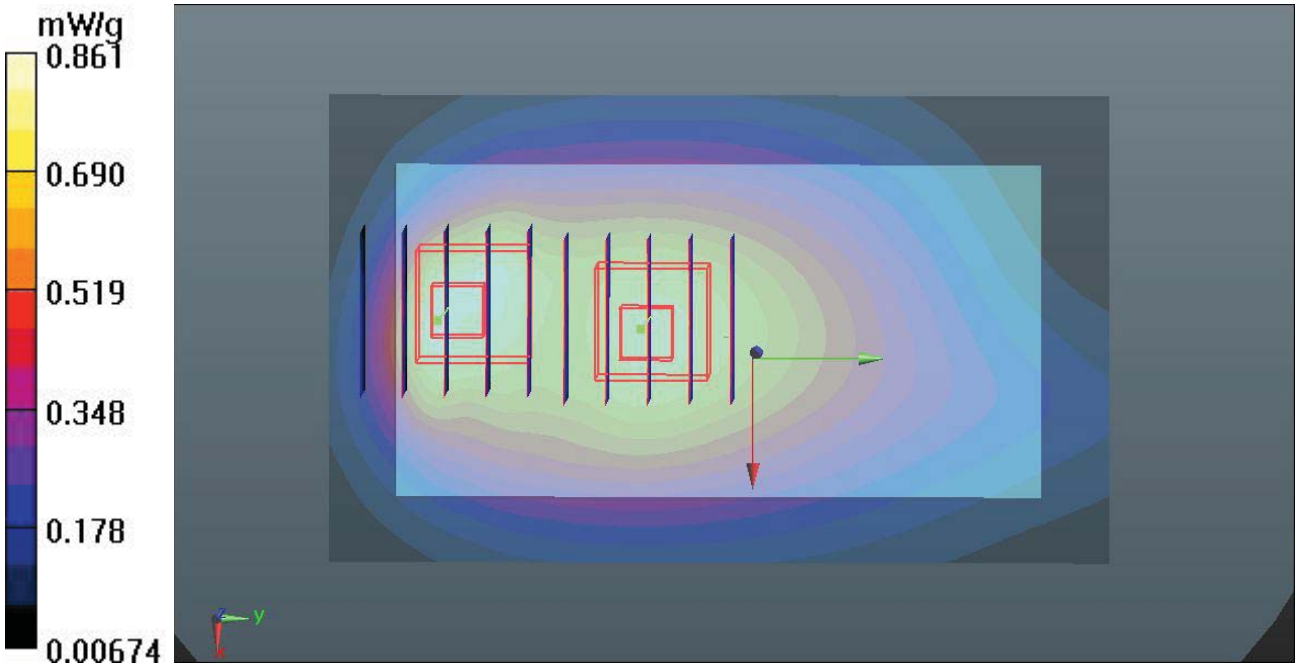
Communication System: GPRS/EDGE10; Frequency: 836.4 MHz;Duty Cycle: 1:4
Medium: MSL_835_120510 Medium parameters used: f = 836.4 MHz; σ = 0.97 mho/m; ε_r = 56.057; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：21.4 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(6.16, 6.16, 6.16); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch189/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.861 mW/g

Ch189/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.444 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 1.3840
SAR(1 g) = 0.852 mW/g; SAR(10 g) = 0.502 mW/g
Maximum value of SAR (measured) = 0.956 mW/g

Ch189/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.444 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.9750
SAR(1 g) = 0.743 mW/g; SAR(10 g) = 0.546 mW/g
Maximum value of SAR (measured) = 0.781 mW/g



85 GSM850_GPRS10_Back_1cm_Ch128_Battery#3_Quancheng

DUT: 240601

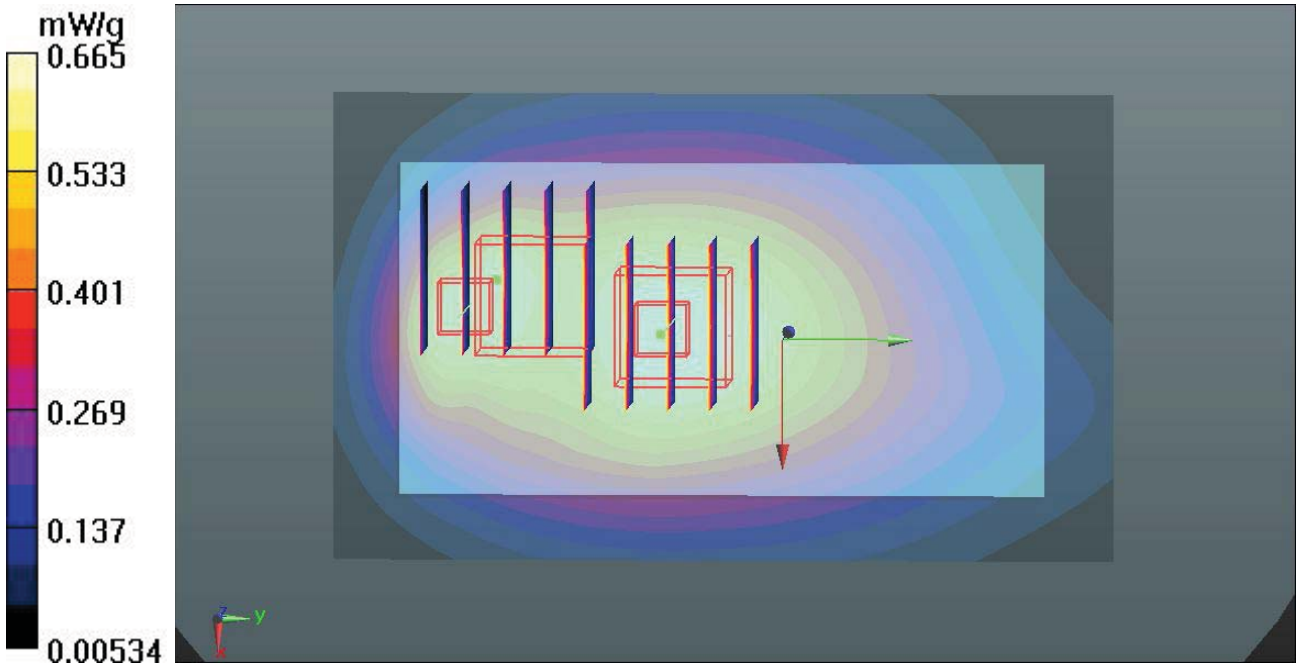
Communication System: GPRS/EDGE10; Frequency: 824.2 MHz;Duty Cycle: 1:4
Medium: MSL_835_120510 Medium parameters used: f = 824.2 MHz; σ = 0.959 mho/m; ε_r = 56.157; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：21.4 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(6.16, 6.16, 6.16); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch128/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.665 mW/g

Ch128/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 25.851 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.8210
SAR(1 g) = 0.634 mW/g; SAR(10 g) = 0.470 mW/g
Maximum value of SAR (measured) = 0.667 mW/g

Ch128/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 25.851 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.0270
SAR(1 g) = 0.621 mW/g; SAR(10 g) = 0.386 mW/g
Maximum value of SAR (measured) = 0.708 mW/g



86 GSM850_GPRS10_Back_1cm_Ch251_Battery#3_Quancheng

DUT: 240601

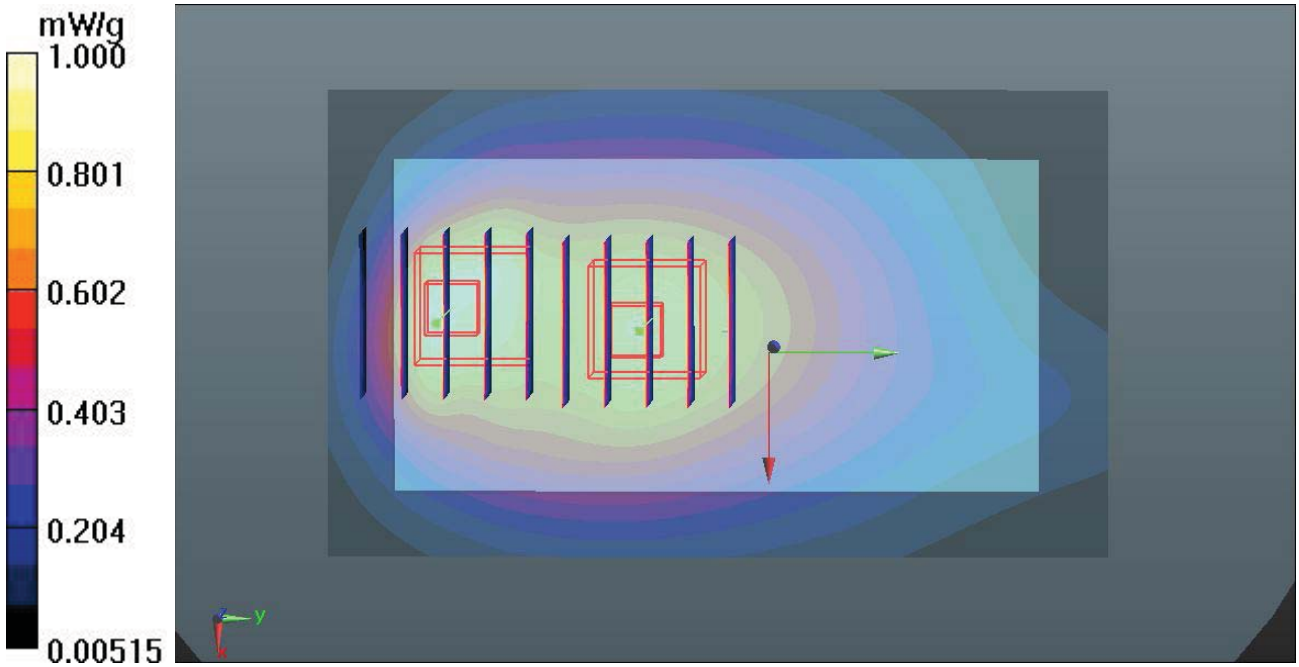
Communication System: GPRS/EDGE10; Frequency: 848.8 MHz;Duty Cycle: 1:4
Medium: MSL_835_120510 Medium parameters used: f = 849 MHz; σ = 0.982 mho/m; ε_r = 55.937; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：21.4 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(6.16, 6.16, 6.16); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch251/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.000 mW/g

Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 28.125 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 1.7210
SAR(1 g) = 0.981 mW/g; SAR(10 g) = 0.576 mW/g
Maximum value of SAR (measured) = 1.088 mW/g

Ch251/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 28.125 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 1.0760
SAR(1 g) = 0.802 mW/g; SAR(10 g) = 0.586 mW/g
Maximum value of SAR (measured) = 0.844 mW/g



87 GSM850_GPRS10_Back_1cm_Ch251_Battery#3_Lianchuang

DUT: 240601

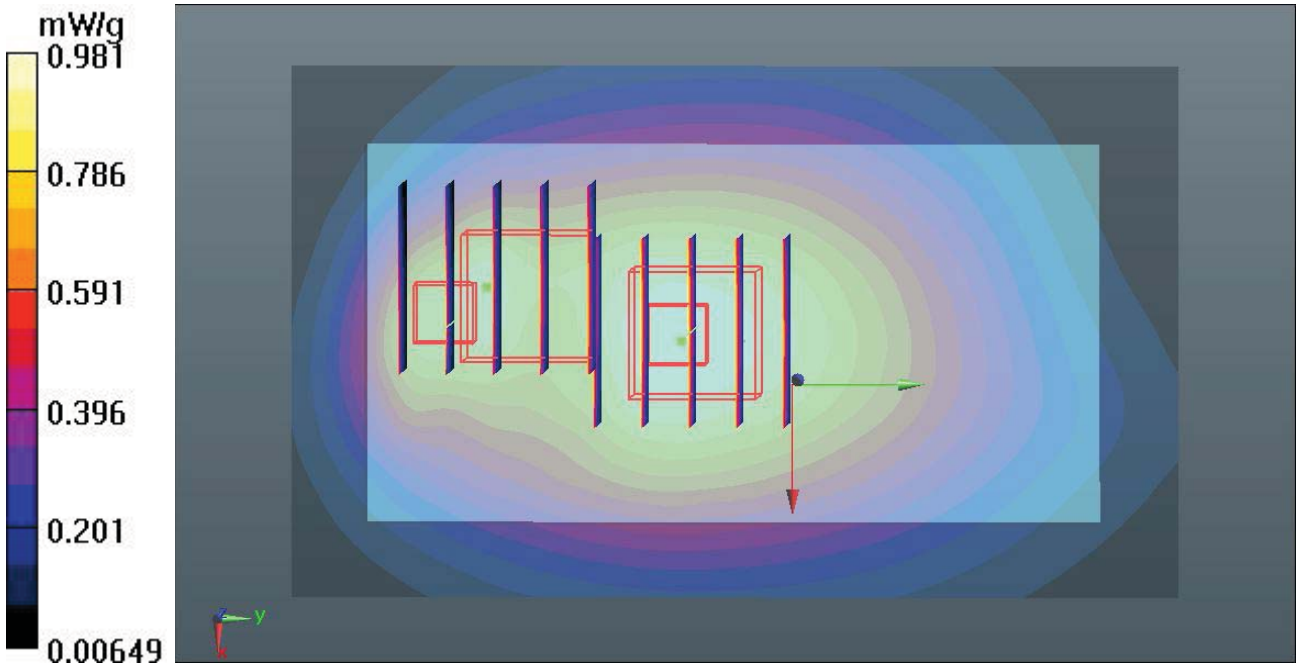
Communication System: GPRS/EDGE10; Frequency: 848.8 MHz;Duty Cycle: 1:4
Medium: MSL_835_120510 Medium parameters used: f = 849 MHz; σ = 0.982 mho/m; ε_r = 55.937; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：21.4 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(6.16, 6.16, 6.16); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch251/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.981 mW/g

Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 31.639 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 1.2030
SAR(1 g) = 0.925 mW/g; SAR(10 g) = 0.684 mW/g
Maximum value of SAR (measured) = 0.972 mW/g

Ch251/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 31.639 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 1.8070
SAR(1 g) = 0.863 mW/g; SAR(10 g) = 0.533 mW/g
Maximum value of SAR (measured) = 0.963 mW/g



88 GSM850_GPRS10_Back_1cm_Ch128_Battery#3_Lianchuang

DUT: 240601

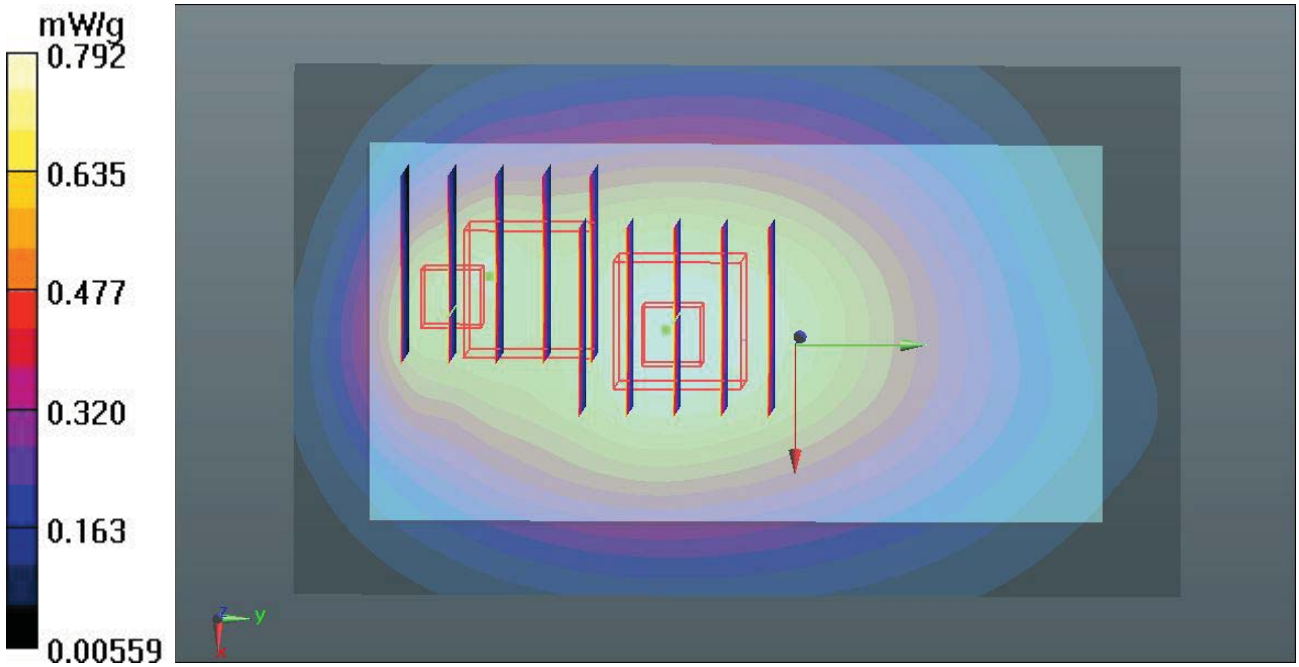
Communication System: GPRS/EDGE10; Frequency: 824.2 MHz;Duty Cycle: 1:4
Medium: MSL_835_120510 Medium parameters used: f = 824.2 MHz; σ = 0.959 mho/m; ε_r = 56.157; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：21.4 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(6.16, 6.16, 6.16); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch128/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.792 mW/g

Ch128/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 28.122 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.9810
SAR(1 g) = 0.752 mW/g; SAR(10 g) = 0.561 mW/g
Maximum value of SAR (measured) = 0.786 mW/g

Ch128/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 28.122 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.1210
SAR(1 g) = 0.676 mW/g; SAR(10 g) = 0.454 mW/g
Maximum value of SAR (measured) = 0.743 mW/g



89 GSM850_GPRS10_Back_1cm_Ch189_Battery#3_Lianchuang

DUT: 240601

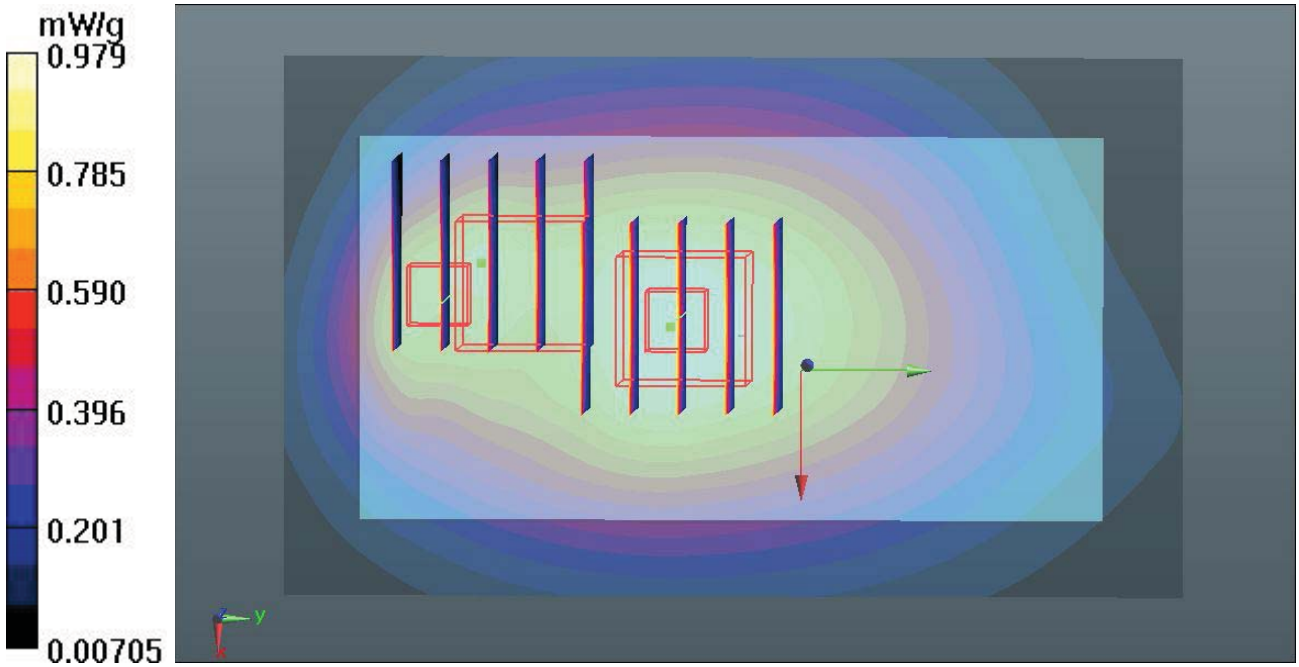
Communication System: GPRS/EDGE10; Frequency: 836.4 MHz;Duty Cycle: 1:4
Medium: MSL_835_120510 Medium parameters used: f = 836.4 MHz; σ = 0.97 mho/m; ε_r = 56.057; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：21.4 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(6.16, 6.16, 6.16); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch189/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.979 mW/g

Ch189/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 31.442 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.2070
SAR(1 g) = 0.931 mW/g; SAR(10 g) = 0.691 mW/g
Maximum value of SAR (measured) = 0.980 mW/g

Ch189/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 31.442 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.4480
SAR(1 g) = 0.852 mW/g; SAR(10 g) = 0.552 mW/g
Maximum value of SAR (measured) = 0.949 mW/g



25 GSM1900_GPRS10_Front_1cm_Ch661_Battery#1

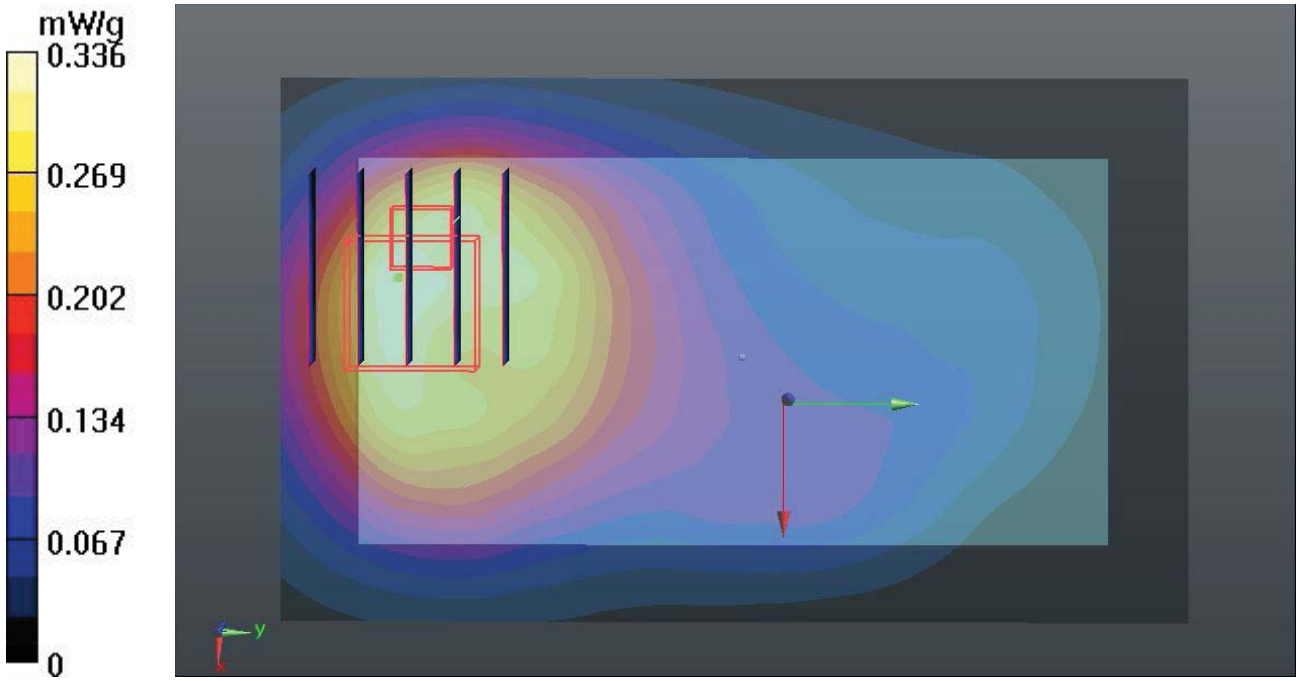
DUT: 240601

Communication System: GPRS/EDGE10; Frequency: 1880 MHz;Duty Cycle: 1:4
Medium: MSL_1900_120502 Medium parameters used: f = 1880 MHz; σ = 1.513 mho/m; ε_r = 54.609; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：21.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(7.71, 7.71, 7.71); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch661/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.336 mW/g

Ch661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.443 V/m; Power Drift = 0.0068 dB
Peak SAR (extrapolated) = 0.4910
SAR(1 g) = 0.289 mW/g; SAR(10 g) = 0.176 mW/g
Maximum value of SAR (measured) = 0.331 mW/g



Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 02.05.2012

26 GSM1900_GPRS10_Back_1cm_Ch661_Battery#1

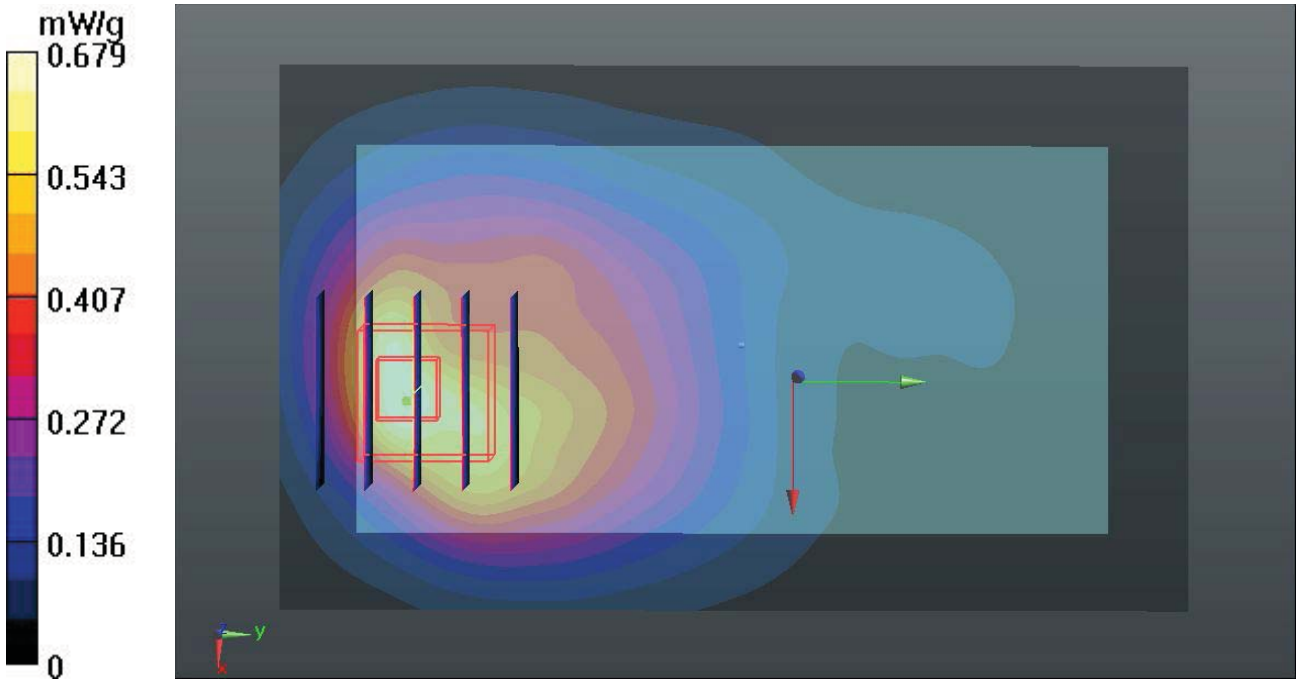
DUT: 240601

Communication System: GPRS/EDGE10; Frequency: 1880 MHz;Duty Cycle: 1:4
Medium: MSL_1900_120502 Medium parameters used: f = 1880 MHz; σ = 1.513 mho/m; ε_r = 54.609; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：21.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(7.71, 7.71, 7.71); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch661/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.679 mW/g

Ch661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.041 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 1.0840
SAR(1 g) = 0.637 mW/g; SAR(10 g) = 0.358 mW/g
Maximum value of SAR (measured) = 0.720 mW/g



26 GSM1900_GPRS10_Back_1cm_Ch661_Battery#1_2D

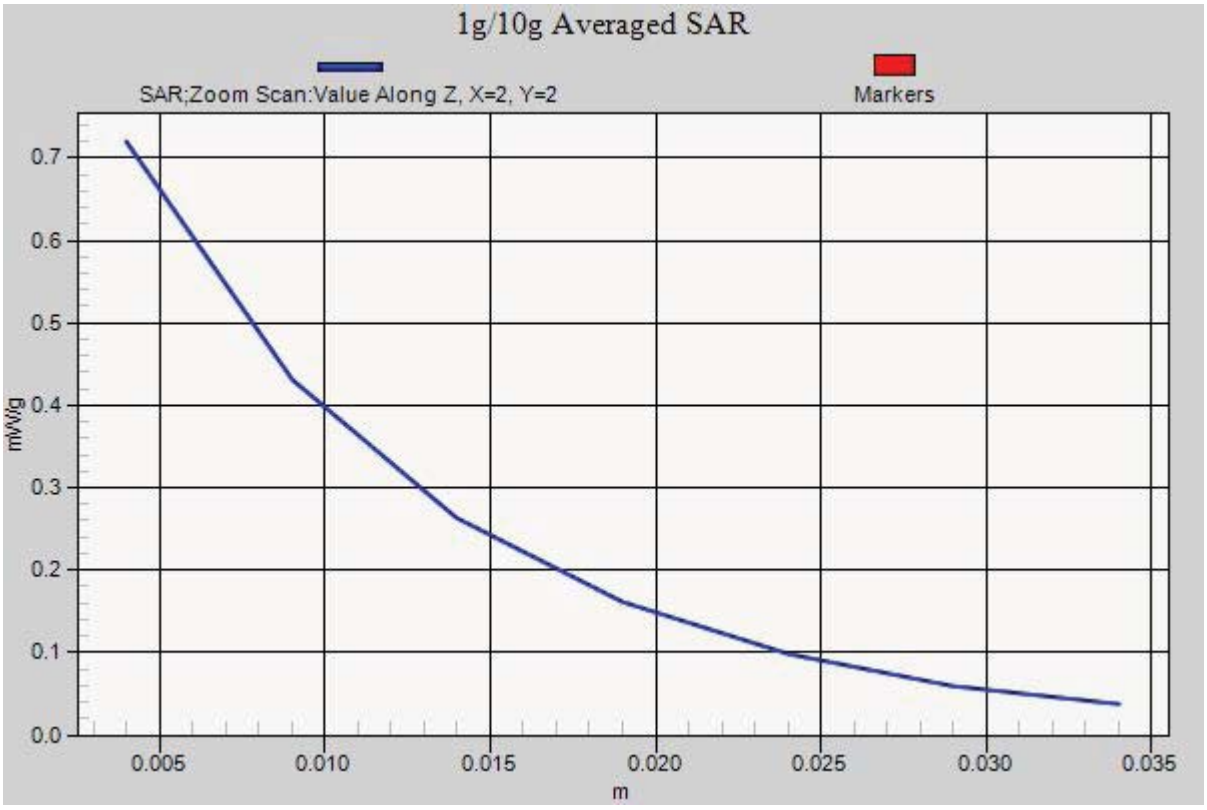
DUT: 240601

Communication System: GPRS/EDGE10; Frequency: 1880 MHz;Duty Cycle: 1:4
Medium: MSL_1900_120502 Medium parameters used: f = 1880 MHz; σ = 1.513 mho/m; ε_r = 54.609; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃； Liquid Temperature：21.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(7.71, 7.71, 7.71); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch661/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.679 mW/g

Ch661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.041 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 1.0840
SAR(1 g) = 0.637 mW/g; SAR(10 g) = 0.358 mW/g
Maximum value of SAR (measured) = 0.720 mW/g



27 GSM1900_GPRS10_Left Side_1cm_Ch661_Battery#1

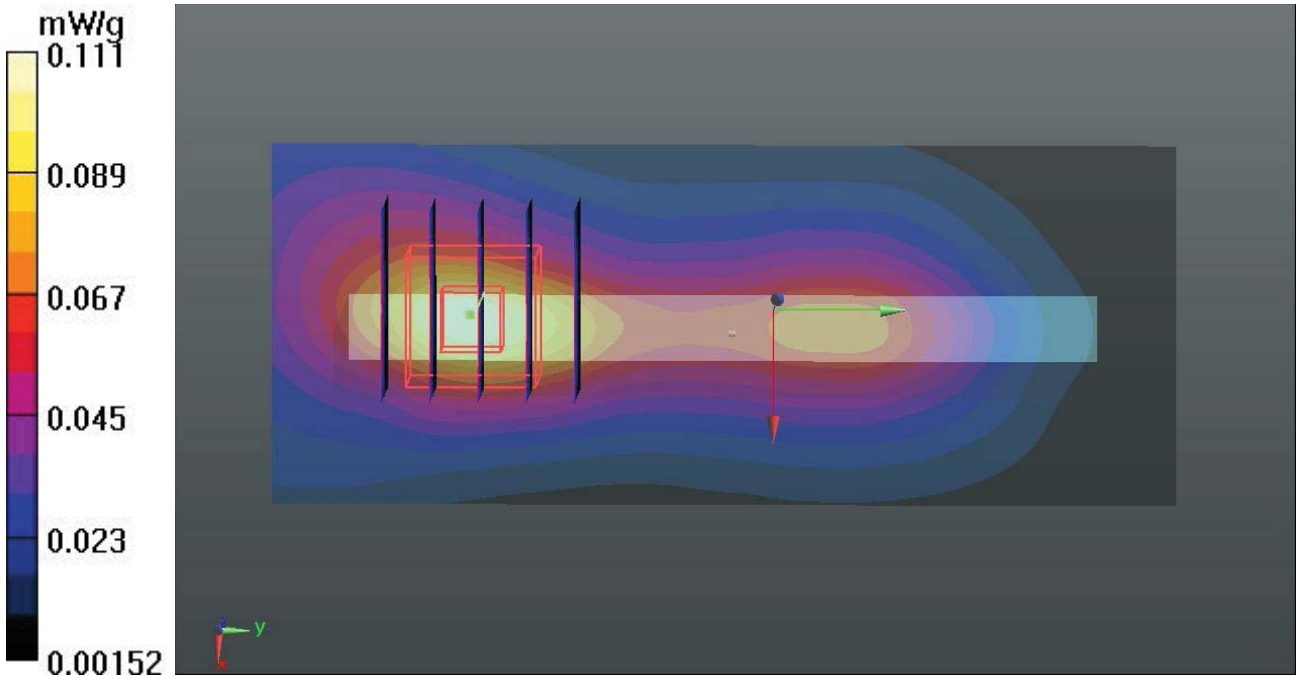
DUT: 240601

Communication System: GPRS/EDGE10; Frequency: 1880 MHz;Duty Cycle: 1:4
Medium: MSL_1900_120502 Medium parameters used: f = 1880 MHz; σ = 1.513 mho/m; ε_r = 54.609; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：21.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(7.71, 7.71, 7.71); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch661/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.111 mW/g

Ch661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.487 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 0.1650
SAR(1 g) = 0.099 mW/g; SAR(10 g) = 0.056 mW/g
Maximum value of SAR (measured) = 0.107 mW/g



28 GSM1900_GPRS10_Right Side_1cm_Ch661_Battery#1

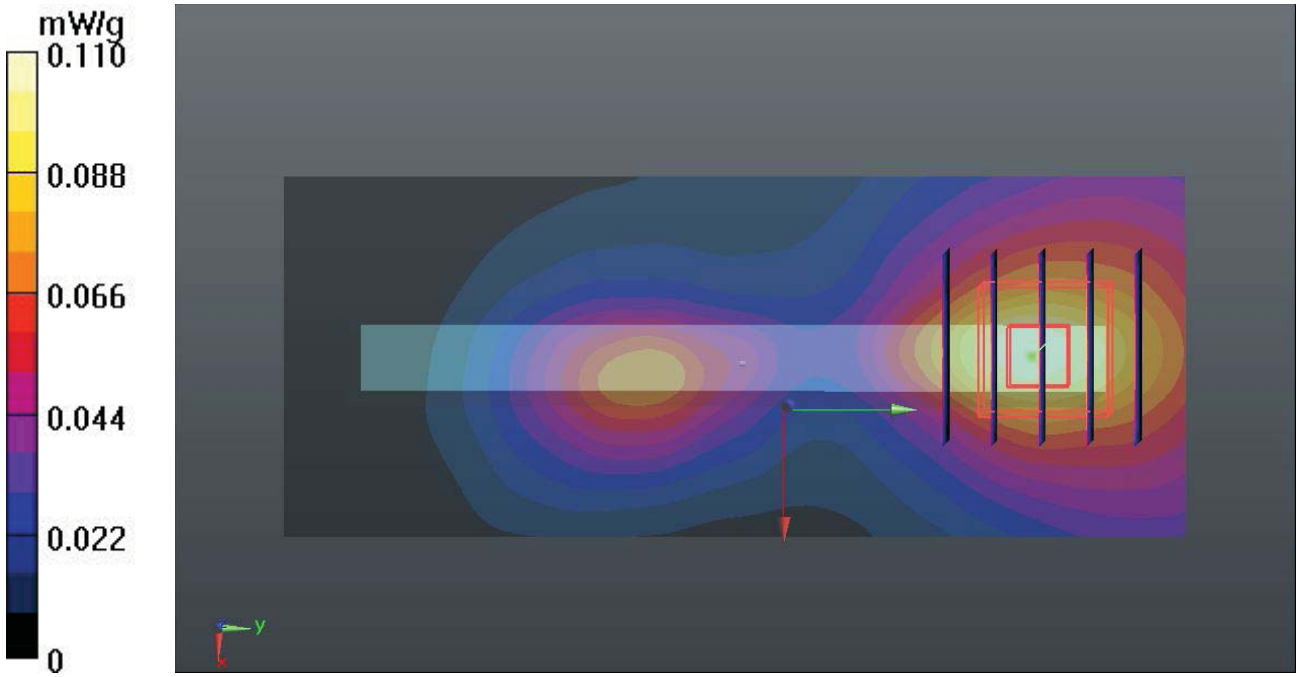
DUT: 240601

Communication System: GPRS/EDGE10; Frequency: 1880 MHz;Duty Cycle: 1:4
Medium: MSL_1900_120502 Medium parameters used: f = 1880 MHz; σ = 1.513 mho/m; ε_r = 54.609; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：21.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(7.71, 7.71, 7.71); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch661/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.110 mW/g

Ch661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.697 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.1610
SAR(1 g) = 0.099 mW/g; SAR(10 g) = 0.059 mW/g
Maximum value of SAR (measured) = 0.108 mW/g



29 GSM1900_GPRS10_Bottom Side_1cm_Ch661_Battery#1

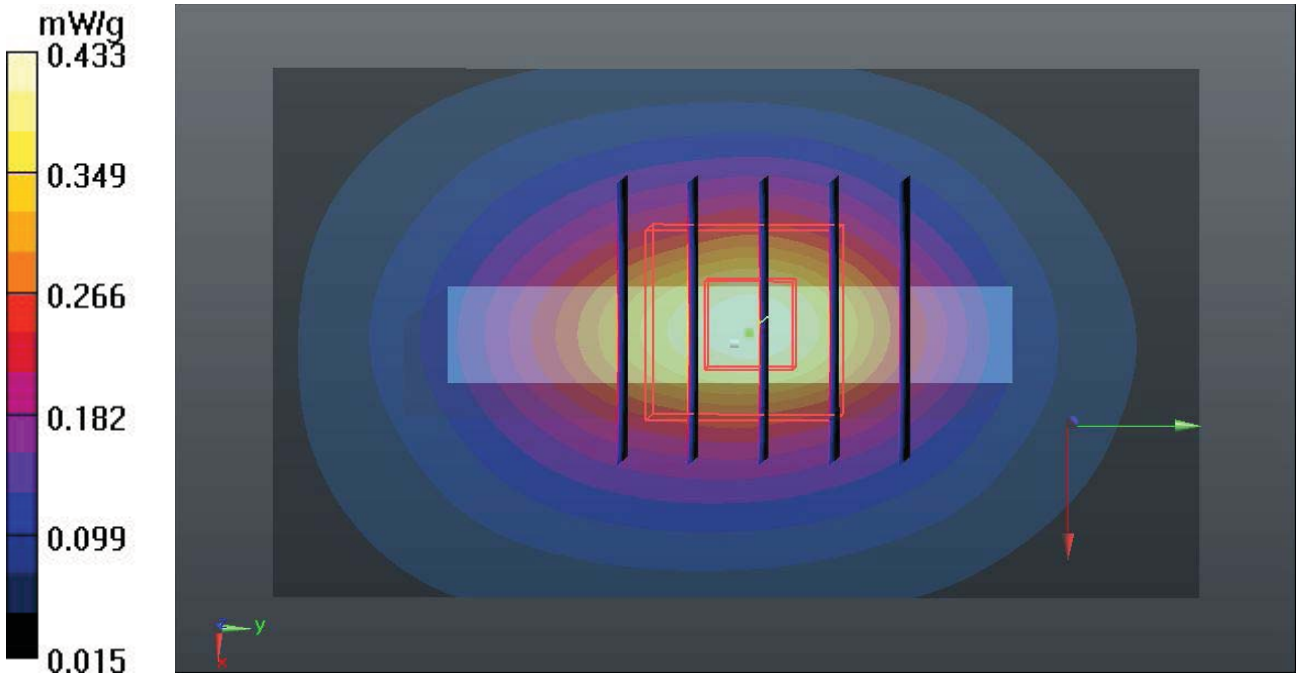
DUT: 240601

Communication System: GPRS/EDGE10; Frequency: 1880 MHz;Duty Cycle: 1:4
Medium: MSL_1900_120502 Medium parameters used: f = 1880 MHz; σ = 1.513 mho/m; ε_r = 54.609; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：21.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(7.71, 7.71, 7.71); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch661/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.433 mW/g

Ch661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.908 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.6220
SAR(1 g) = 0.375 mW/g; SAR(10 g) = 0.214 mW/g
Maximum value of SAR (measured) = 0.416 mW/g



32 GSM1900_GPRS10_Back_1cm_Ch661_Battery#2

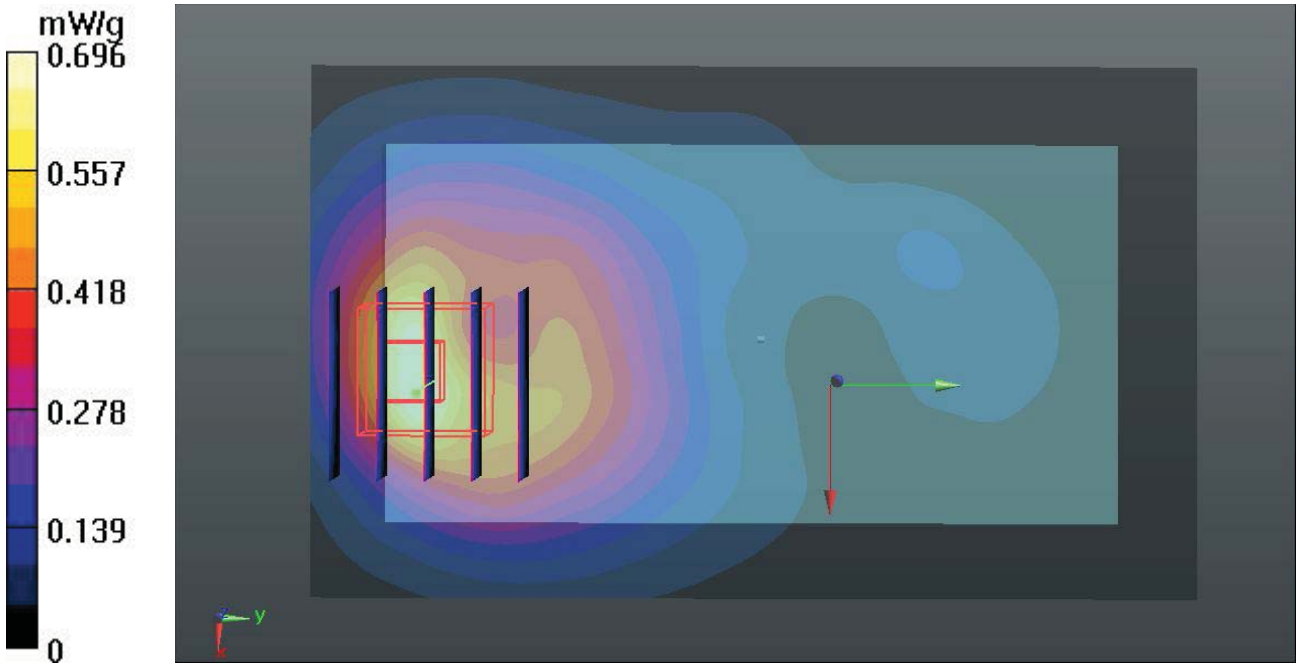
DUT: 240601

Communication System: GPRS/EDGE10; Frequency: 1880 MHz;Duty Cycle: 1:4
Medium: MSL_1900_120509 Medium parameters used: f = 1880 MHz; σ = 1.489 mho/m; ε_r = 53.955; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃； Liquid Temperature：21.5 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(4.64, 4.64, 4.64); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch661/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.696 mW/g

Ch661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.867 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 1.0440
SAR(1 g) = 0.607 mW/g; SAR(10 g) = 0.342 mW/g
Maximum value of SAR (measured) = 0.662 mW/g



33 GSM1900_GPRS10_Back_1cm_Ch661_Battery#3

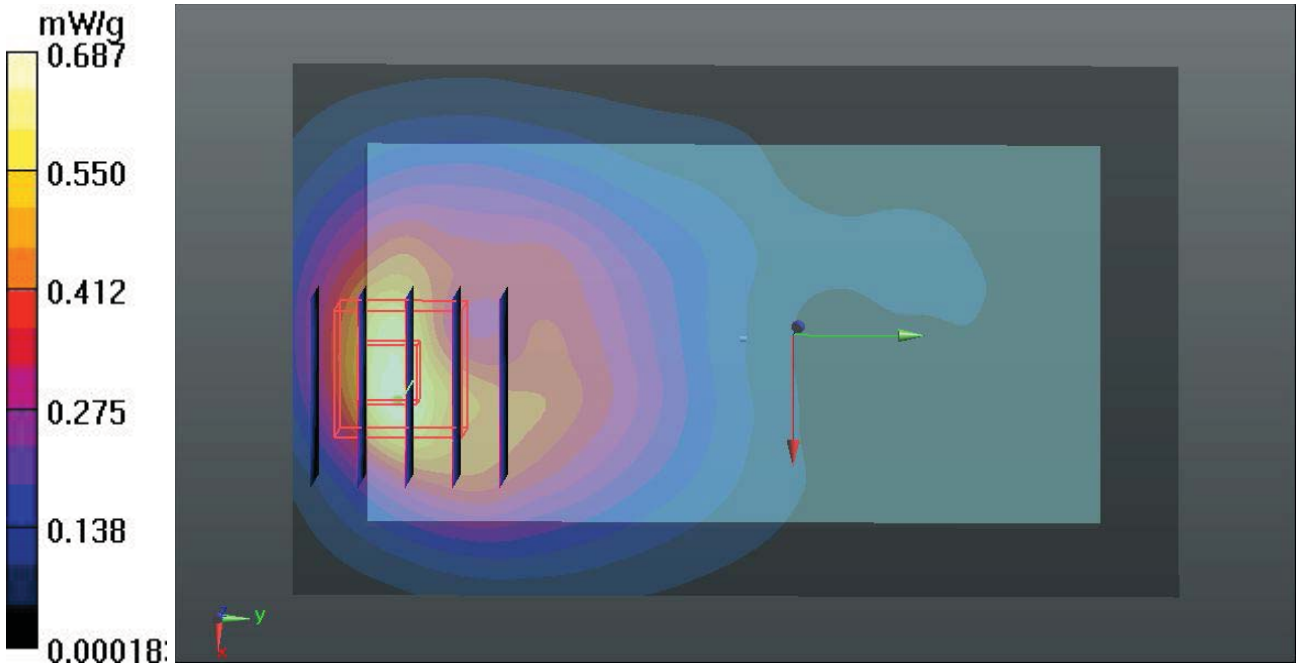
DUT: 240601

Communication System: GPRS/EDGE10; Frequency: 1880 MHz;Duty Cycle: 1:4
Medium: MSL_1900_120509 Medium parameters used: f = 1880 MHz; σ = 1.489 mho/m; ε_r = 53.955; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：21.5 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(4.64, 4.64, 4.64); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch661/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.687 mW/g

Ch661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.849 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 1.0050
SAR(1 g) = 0.585 mW/g; SAR(10 g) = 0.325 mW/g
Maximum value of SAR (measured) = 0.637 mW/g



31 GSM1900_GPRS10_Back_1cm_Ch661_Battery#1_Quancheng

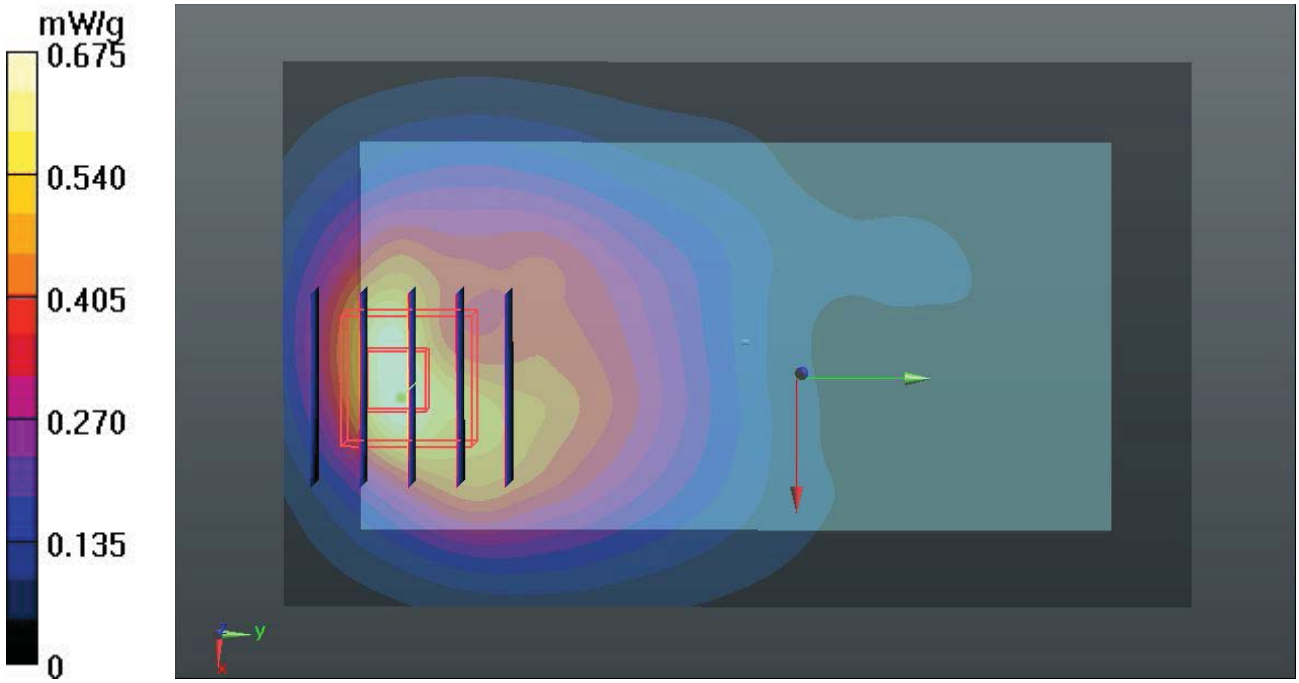
DUT: 240601

Communication System: GPRS/EDGE10; Frequency: 1880 MHz;Duty Cycle: 1:4
Medium: MSL_1900_120502 Medium parameters used: f = 1880 MHz; σ = 1.513 mho/m; ε_r = 54.609; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：21.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(7.71, 7.71, 7.71); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch661/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.675 mW/g

Ch661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.350 V/m; Power Drift = -0.18 dB
Peak SAR (extrapolated) = 1.0440
SAR(1 g) = 0.615 mW/g; SAR(10 g) = 0.343 mW/g
Maximum value of SAR (measured) = 0.686 mW/g



34 GSM1900_GPRS10_Back_1cm_Ch661_Battery#1_Lianchuang

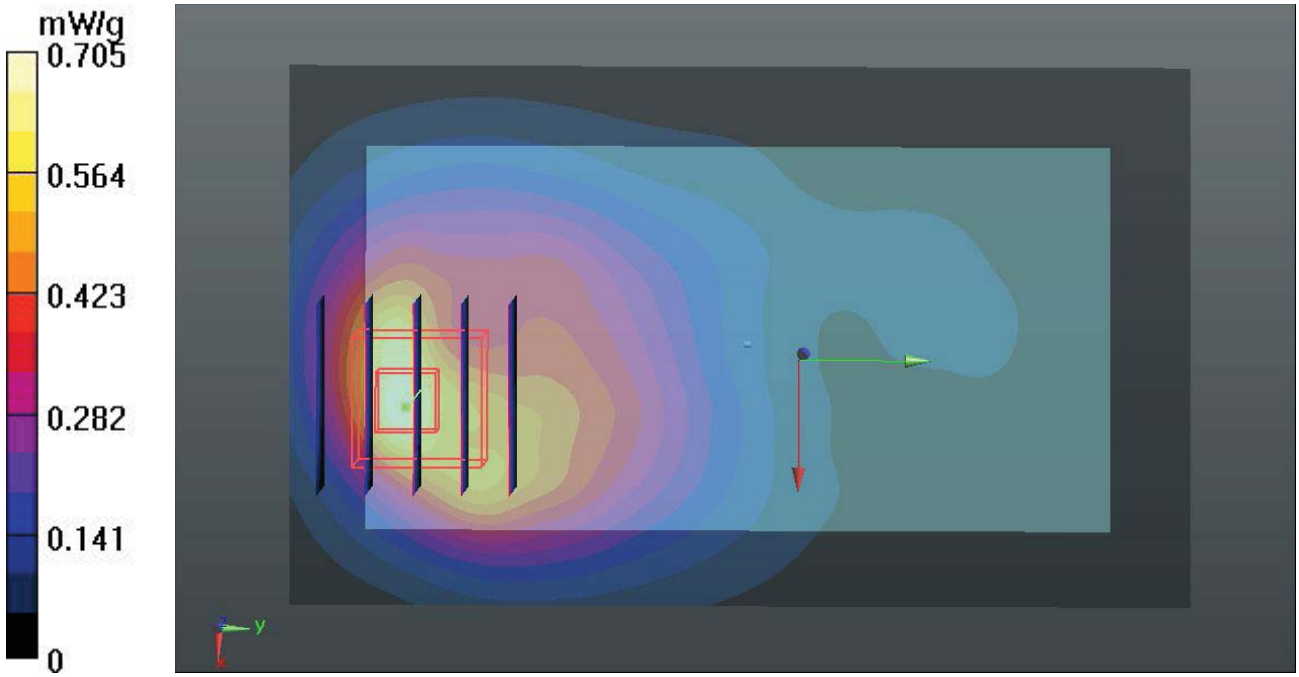
DUT: 240601

Communication System: GPRS/EDGE10; Frequency: 1880 MHz;Duty Cycle: 1:4
Medium: MSL_1900_120502 Medium parameters used: f = 1880 MHz; σ = 1.513 mho/m; ε_r = 54.609; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：21.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(7.71, 7.71, 7.71); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch661/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.705 mW/g

Ch661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.045 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 1.0600
SAR(1 g) = 0.632 mW/g; SAR(10 g) = 0.353 mW/g
Maximum value of SAR (measured) = 0.717 mW/g



41 WCDMA V_RMC 12.2K_Front_1cm_Ch4132_Battery#1

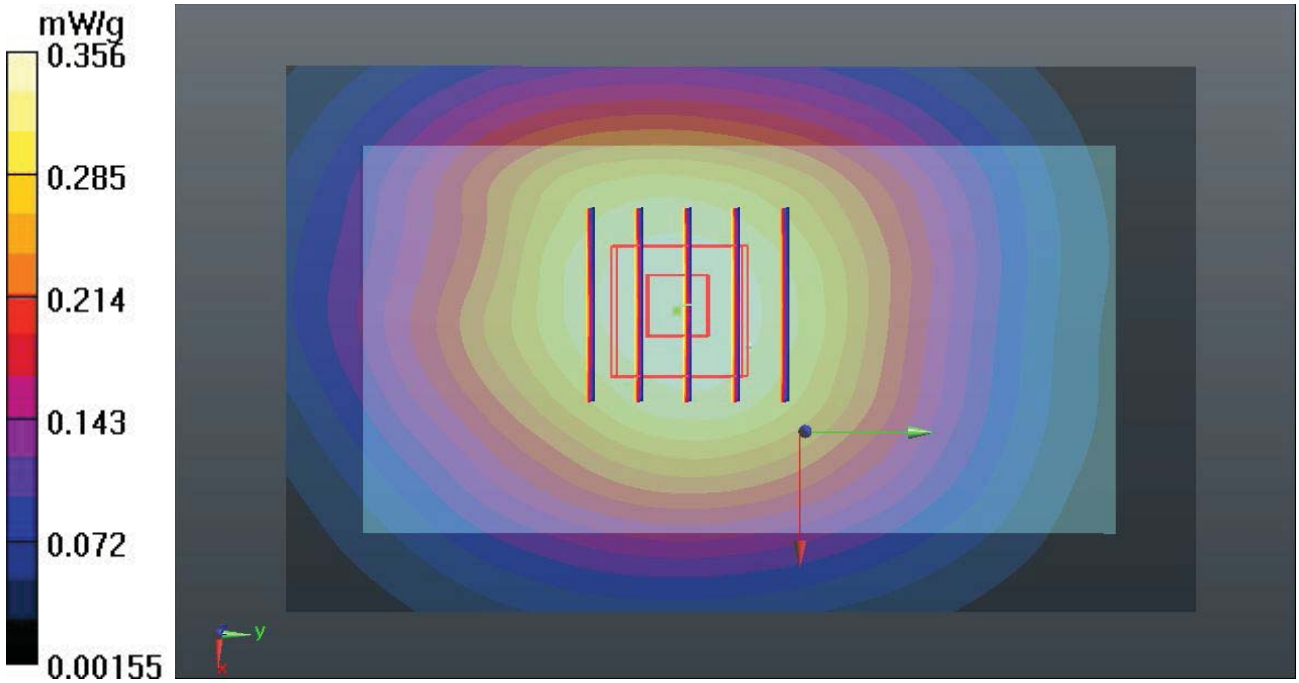
DUT: 240601

Communication System: UMTS; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium: MSL_835_120503 Medium parameters used: f = 826.4 MHz; σ = 0.962 mho/m; ε_r = 56.57; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃； Liquid Temperature：21.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(9.72, 9.72, 9.72); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch4132/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.356 mW/g

Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.726 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.4330
SAR(1 g) = 0.348 mW/g; SAR(10 g) = 0.268 mW/g
Maximum value of SAR (measured) = 0.365 mW/g



42 WCDMA V_RMC 12.2K_Back_1cm_Ch4132_Battery#1

DUT: 240601

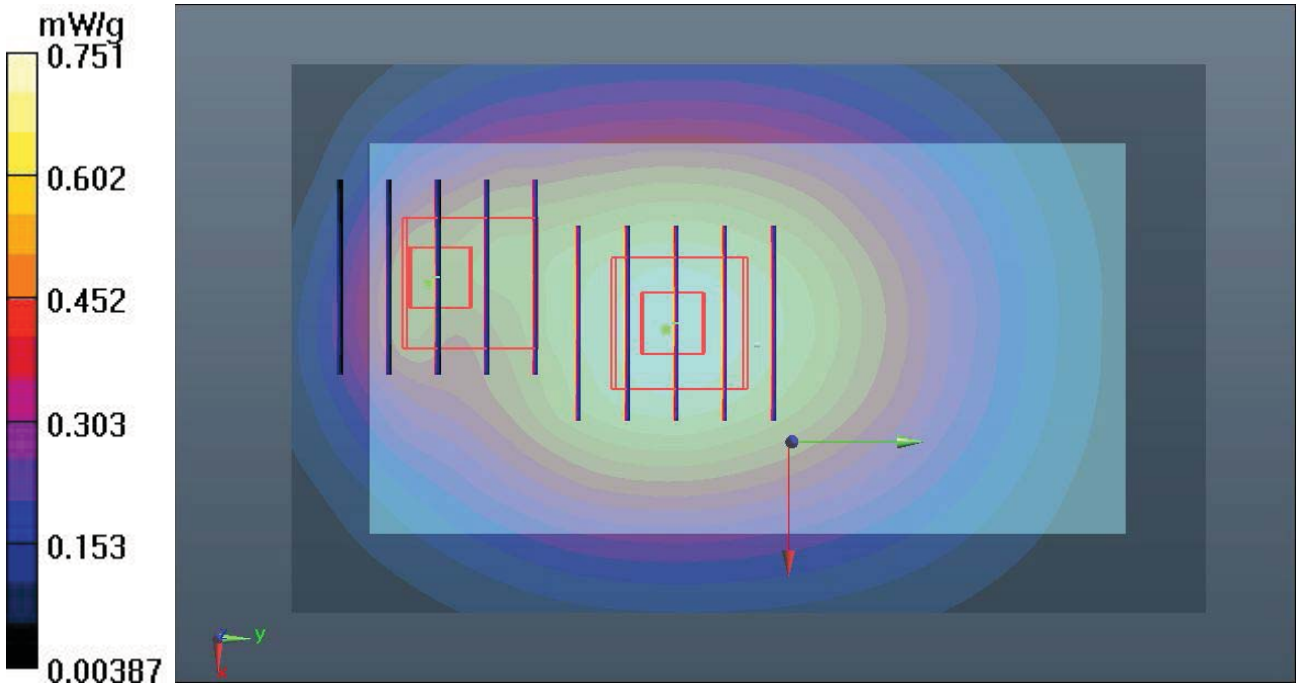
Communication System: UMTS; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium: MSL_835_120503 Medium parameters used: f = 826.4 MHz; σ = 0.962 mho/m; ε_r = 56.57; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature：21.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(9.72, 9.72, 9.72); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch4132/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.751 mW/g

Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.707 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 0.9190
SAR(1 g) = 0.725 mW/g; SAR(10 g) = 0.545 mW/g
Maximum value of SAR (measured) = 0.763 mW/g

Ch4132/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.707 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 0.8420
SAR(1 g) = 0.529 mW/g; SAR(10 g) = 0.363 mW/g
Maximum value of SAR (measured) = 0.579 mW/g



42 WCDMA V_RMC 12.2K_Back_1cm_Ch4132_Battery#1_2D

DUT: 240601

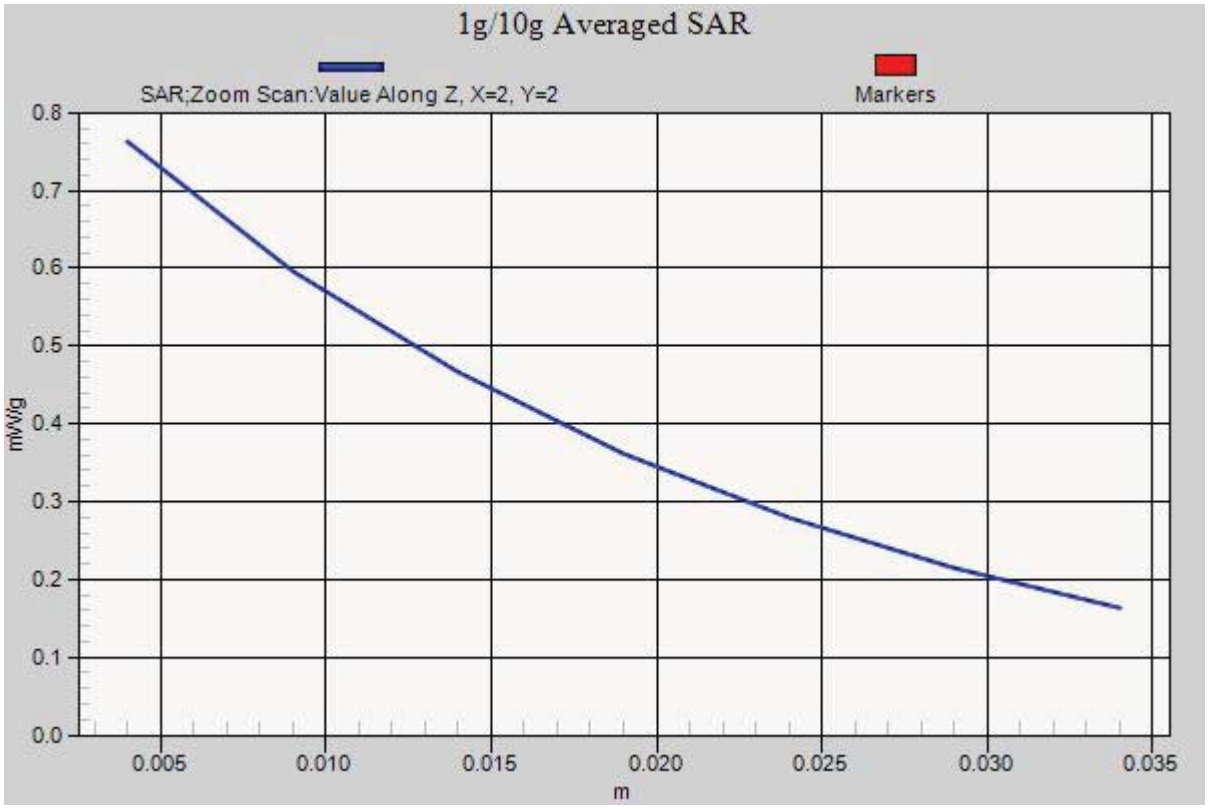
Communication System: UMTS; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium: MSL_835_120503 Medium parameters used: f = 826.4 MHz; σ = 0.962 mho/m; ε_r = 56.57; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature：21.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(9.72, 9.72, 9.72); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch4132/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.751 mW/g

Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.707 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 0.9190
SAR(1 g) = 0.725 mW/g; SAR(10 g) = 0.545 mW/g
Maximum value of SAR (measured) = 0.763 mW/g

Ch4132/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.707 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 0.8420
SAR(1 g) = 0.529 mW/g; SAR(10 g) = 0.363 mW/g
Maximum value of SAR (measured) = 0.579 mW/g


1g/10g Averaged SAR
SAR;Zoom Scan:Value Along Z, X=2, Y=2
Markers
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
mW/g
0.005
0.010
0.015
0.020
0.025
0.030
0.035
m

43 WCDMA V_RMC 12.2K_Left Side_1cm_Ch4132_Battery#1

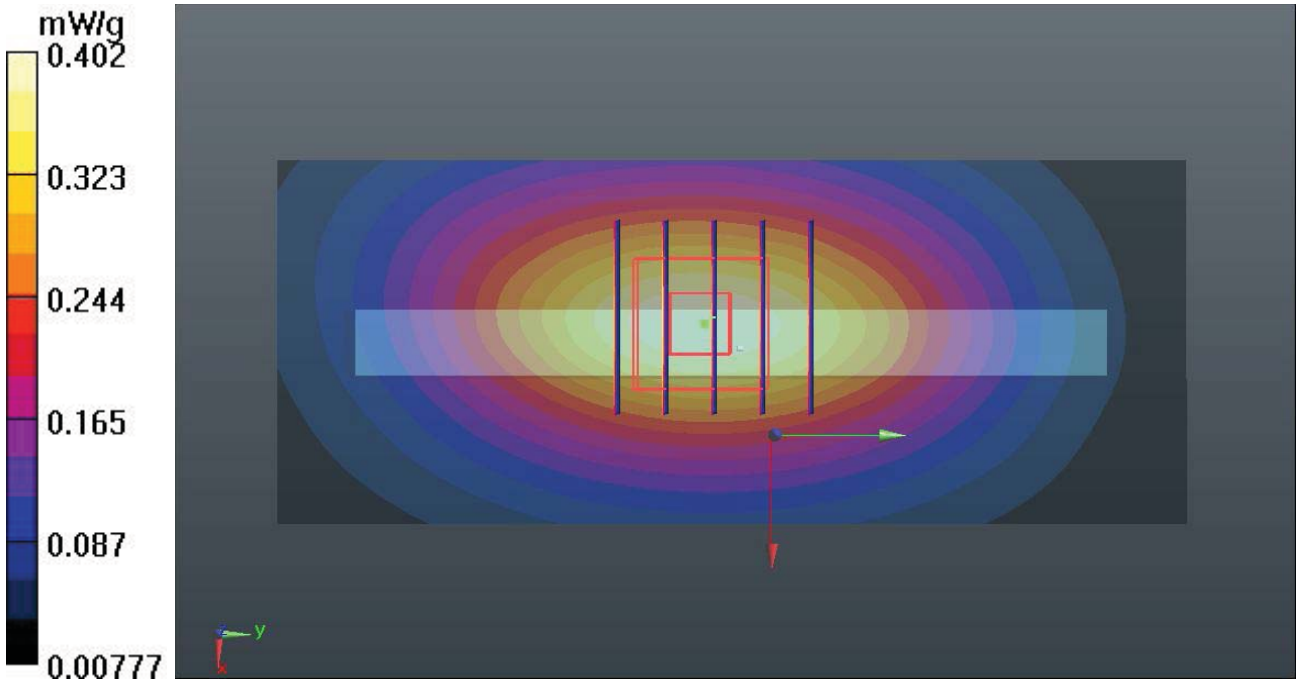
DUT: 240601

Communication System: UMTS; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium: MSL_835_120503 Medium parameters used: f = 826.4 MHz; σ = 0.962 mho/m; ε_r = 56.57; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃； Liquid Temperature：21.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(9.72, 9.72, 9.72); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch4132/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.402 mW/g

Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.154 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.5440
SAR(1 g) = 0.383 mW/g; SAR(10 g) = 0.261 mW/g
Maximum value of SAR (measured) = 0.411 mW/g



44 WCDMA V_RMC 12.2K_Right Side_1cm_Ch4132_Battery#1

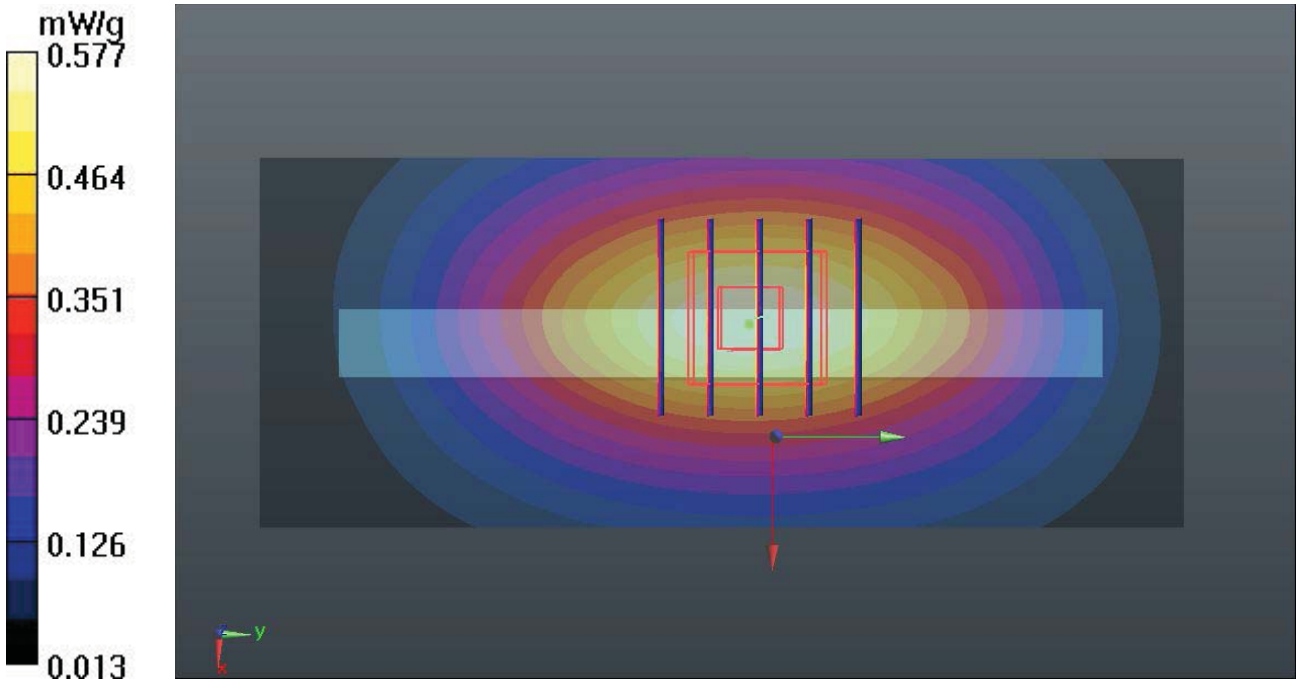
DUT: 240601

Communication System: UMTS; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium: MSL_835_120503 Medium parameters used: f = 826.4 MHz; σ = 0.962 mho/m; ε_r = 56.57; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature：21.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(9.72, 9.72, 9.72); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch4132/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.577 mW/g

Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.453 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.7710
SAR(1 g) = 0.547 mW/g; SAR(10 g) = 0.377 mW/g
Maximum value of SAR (measured) = 0.585 mW/g



45 WCDMA V_RMC 12.2K_Bottom Side_1cm_Ch4132_Battery#1

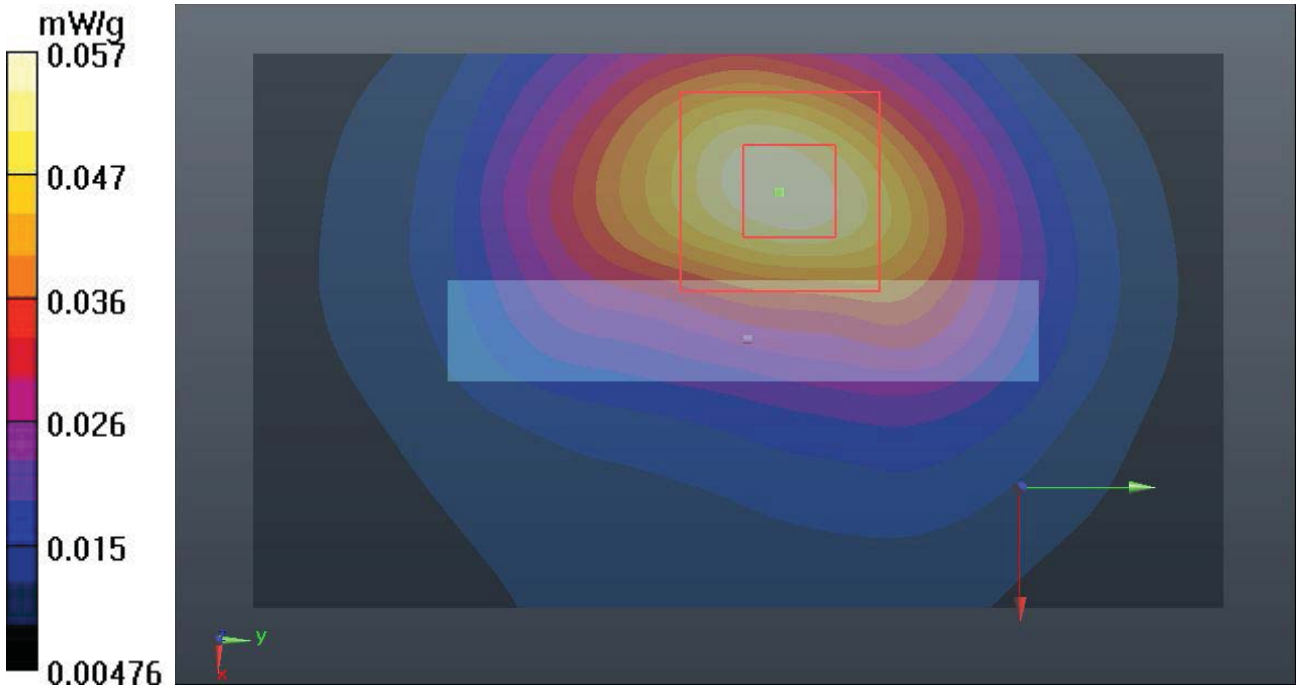
DUT: 240601

Communication System: UMTS; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium: MSL_835_120503 Medium parameters used: f = 826.4 MHz; σ = 0.962 mho/m; ε_r = 56.57; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃； Liquid Temperature：21.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(9.72, 9.72, 9.72); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch4132/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.057 mW/g

Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.562 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 0.0830
SAR(1 g) = 0.051 mW/g; SAR(10 g) = 0.031 mW/g
Maximum value of SAR (measured) = 0.056 mW/g



48 WCDMA V_RMC 12.2K_Back_1cm_Ch4132_Battery#2

DUT: 240601

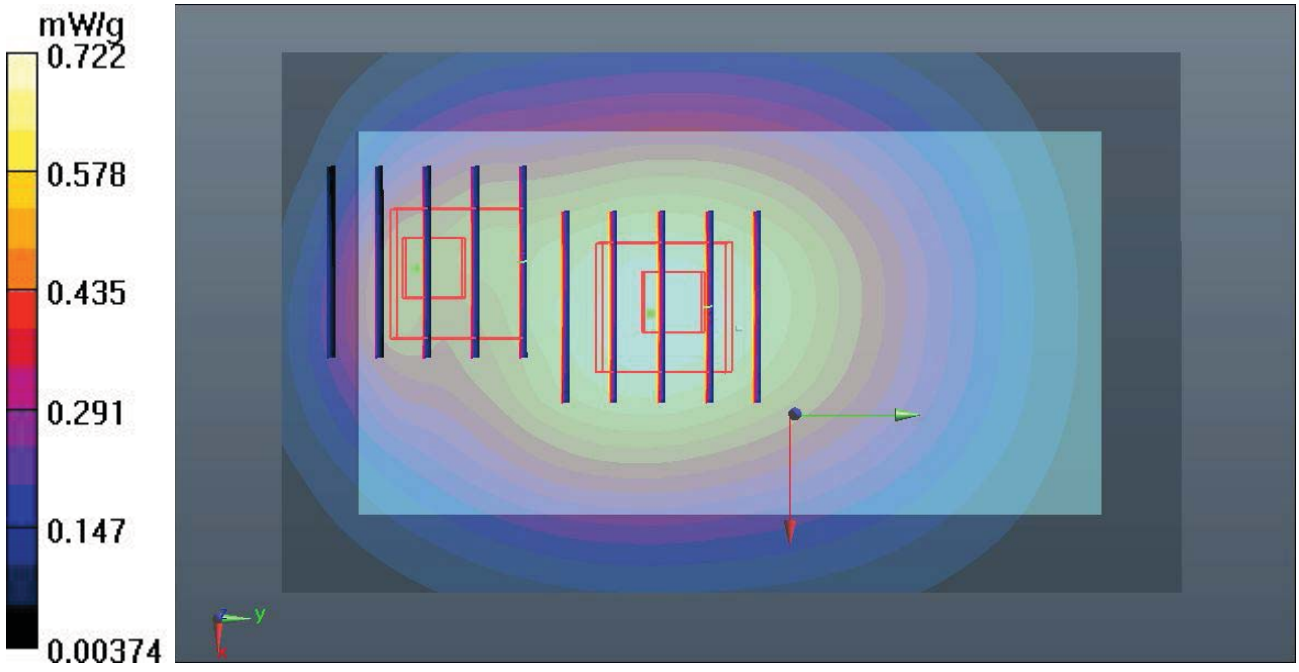
Communication System: UMTS; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium: MSL_835_120509 Medium parameters used: f = 826.4 MHz; σ = 0.968 mho/m; ε_r = 55.021; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature：21.7 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(6.16, 6.16, 6.16); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch4132/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.722 mW/g

Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.127 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 0.8900
SAR(1 g) = 0.689 mW/g; SAR(10 g) = 0.517 mW/g
Maximum value of SAR (measured) = 0.720 mW/g

Configuration/Ch4132/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.127 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 0.8130
SAR(1 g) = 0.511 mW/g; SAR(10 g) = 0.356 mW/g
Maximum value of SAR (measured) = 0.560 mW/g



49 WCDMA V_RMC 12.2K_Back_1cm_Ch4132_Battery#3

DUT: 240601

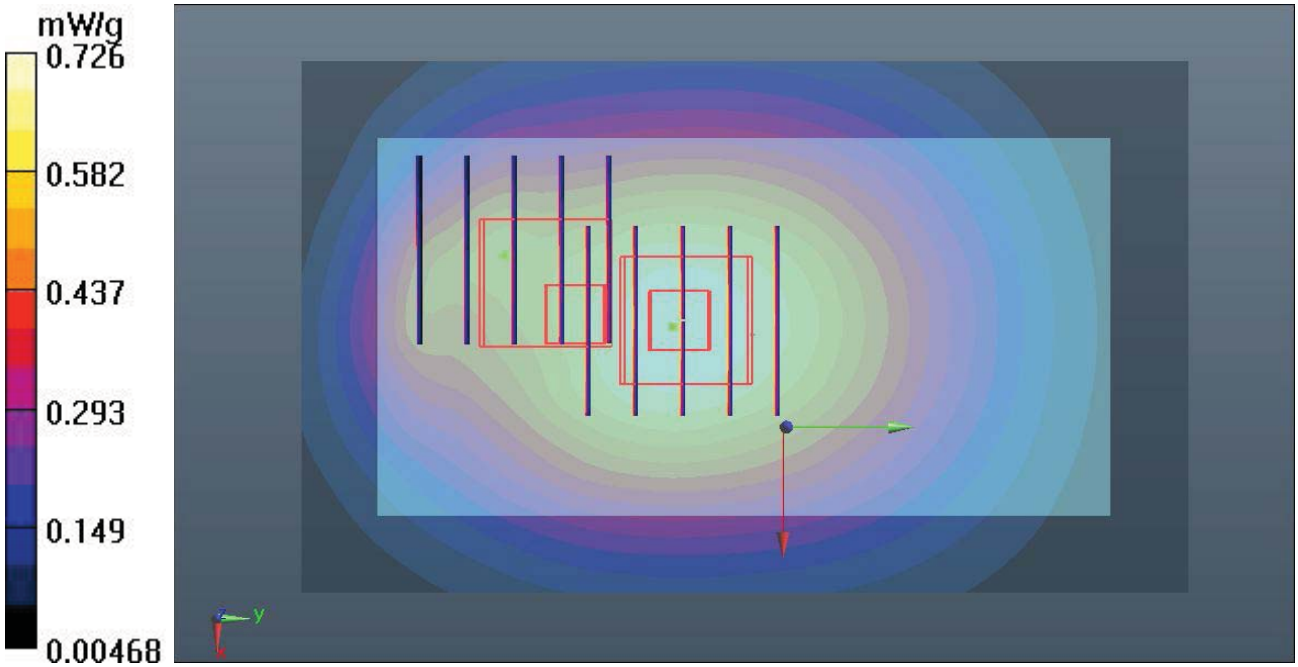
Communication System: UMTS; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium: MSL_835_120509 Medium parameters used: f = 826.4 MHz; σ = 0.968 mho/m; ε_r = 55.021; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature：21.7 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(6.16, 6.16, 6.16); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch4132/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.726 mW/g

Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.716 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 0.9050
SAR(1 g) = 0.706 mW/g; SAR(10 g) = 0.525 mW/g
Maximum value of SAR (measured) = 0.745 mW/g

Ch4132/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.716 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 0.8870
SAR(1 g) = 0.609 mW/g; SAR(10 g) = 0.417 mW/g
Maximum value of SAR (measured) = 0.696 mW/g



47 WCDMA V_RMC 12.2K_Back_1cm_Ch4132_Battery#1_Quancheng

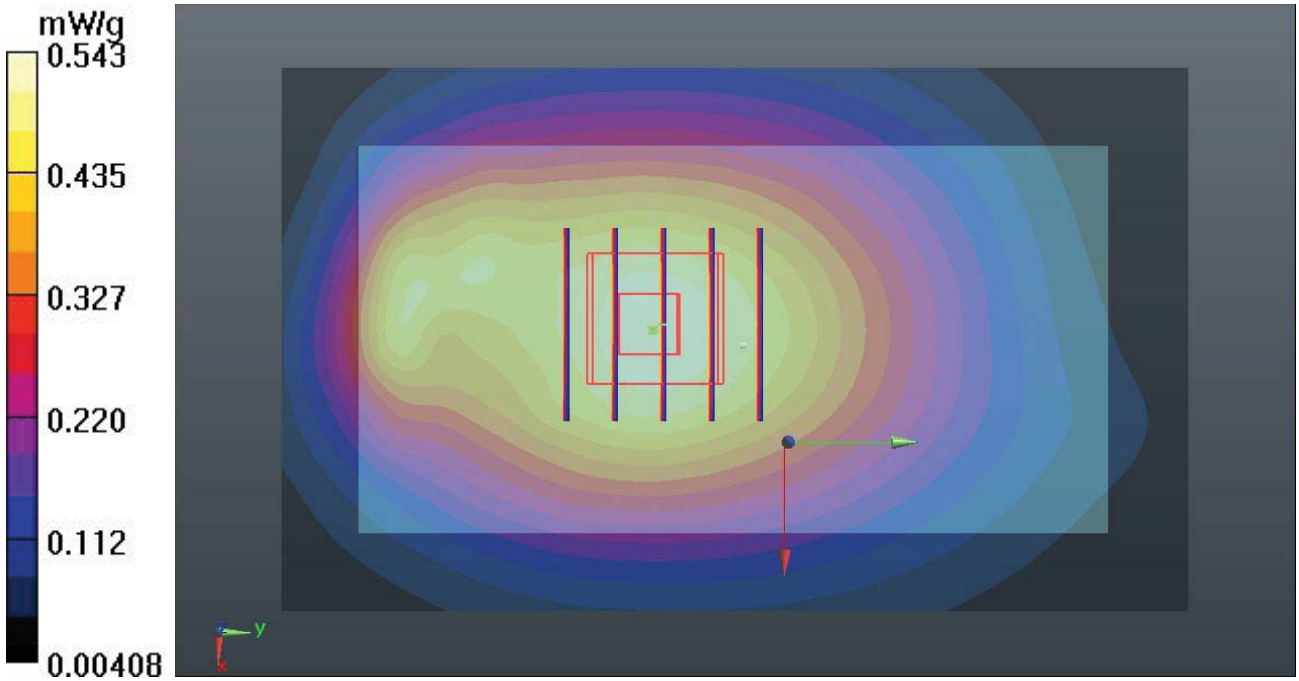
DUT: 240601

Communication System: UMTS; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium: MSL_835_120503 Medium parameters used: f = 826.4 MHz; σ = 0.962 mho/m; ε_r = 56.57; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature：21.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(9.72, 9.72, 9.72); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch4132/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.543 mW/g

Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.465 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 0.6560
SAR(1 g) = 0.517 mW/g; SAR(10 g) = 0.388 mW/g
Maximum value of SAR (measured) = 0.542 mW/g



50 WCDMA V_RMC 12.2K_Back_1cm_Ch4132_Battery#1_Lianchuang

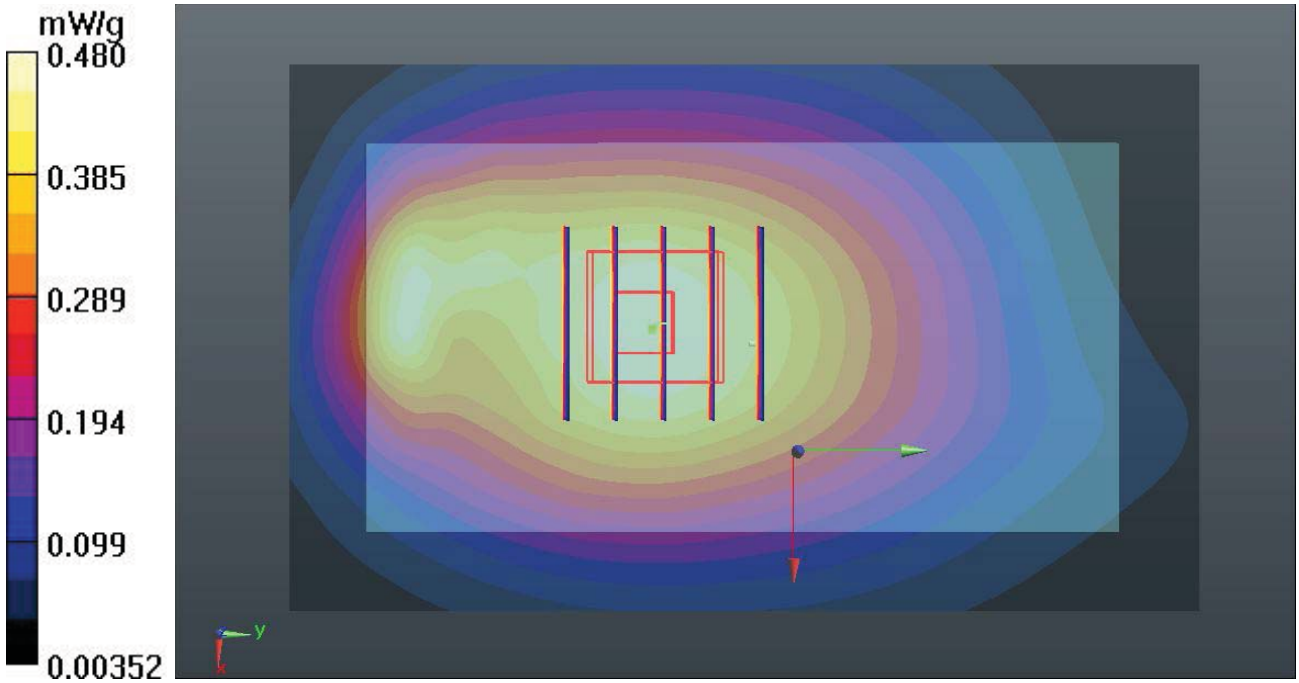
DUT: 240601

Communication System: UMTS; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium: MSL_835_120503 Medium parameters used: f = 826.4 MHz; σ = 0.962 mho/m; ε_r = 56.57; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature：21.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(9.72, 9.72, 9.72); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch4132/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.480 mW/g

Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 21.197 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.5820
SAR(1 g) = 0.458 mW/g; SAR(10 g) = 0.344 mW/g
Maximum value of SAR (measured) = 0.478 mW/g



13 WCDMA II_RMC 12.2K_Front_1cm_Ch9262_Battery#1

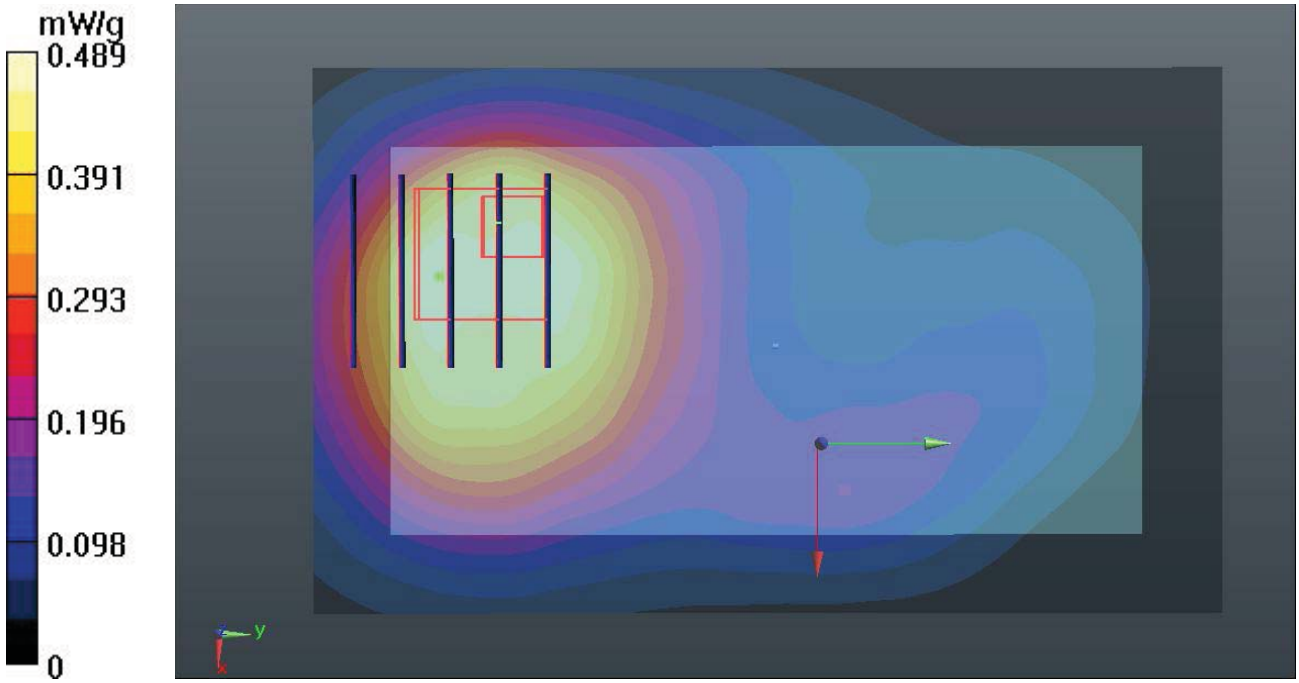
DUT: 240601

Communication System: UMTS; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium: MSL_1900_120502 Medium parameters used: f = 1852.4 MHz; σ = 1.475 mho/m; ε_r = 54.674; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：21.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(7.71, 7.71, 7.71); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch9262/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.489 mW/g

Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.919 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.7910
SAR(1 g) = 0.478 mW/g; SAR(10 g) = 0.285 mW/g
Maximum value of SAR (measured) = 0.521 mW/g



14 WCDMA II_RMC 12.2K_Back_1cm_Ch9262_Battery#1

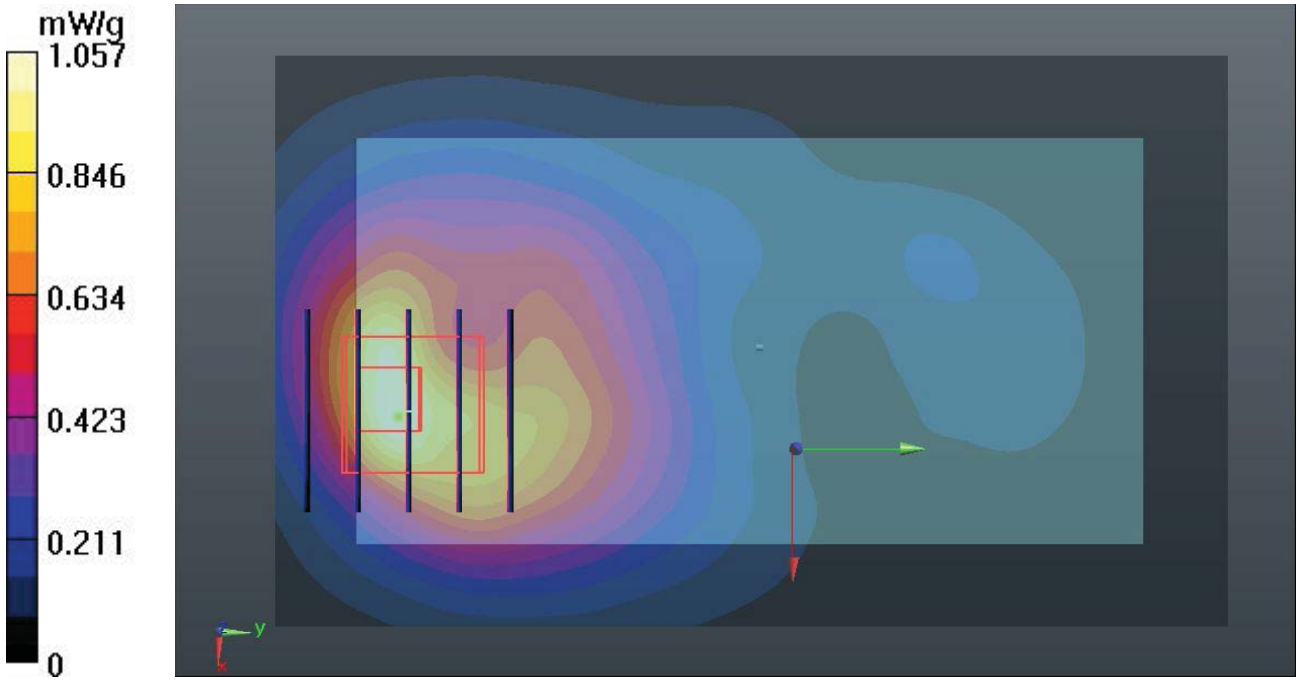
DUT: 240601

Communication System: UMTS; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium: MSL_1900_120502 Medium parameters used: f = 1852.4 MHz; σ = 1.475 mho/m; ε_r = 54.674; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：21.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(7.71, 7.71, 7.71); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch9262/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.057 mW/g

Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.132 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 1.5650
SAR(1 g) = 0.932 mW/g; SAR(10 g) = 0.536 mW/g
Maximum value of SAR (measured) = 1.016 mW/g



15 WCDMA II_RMC 12.2K_Left Side_1cm_Ch9262_Battery#1

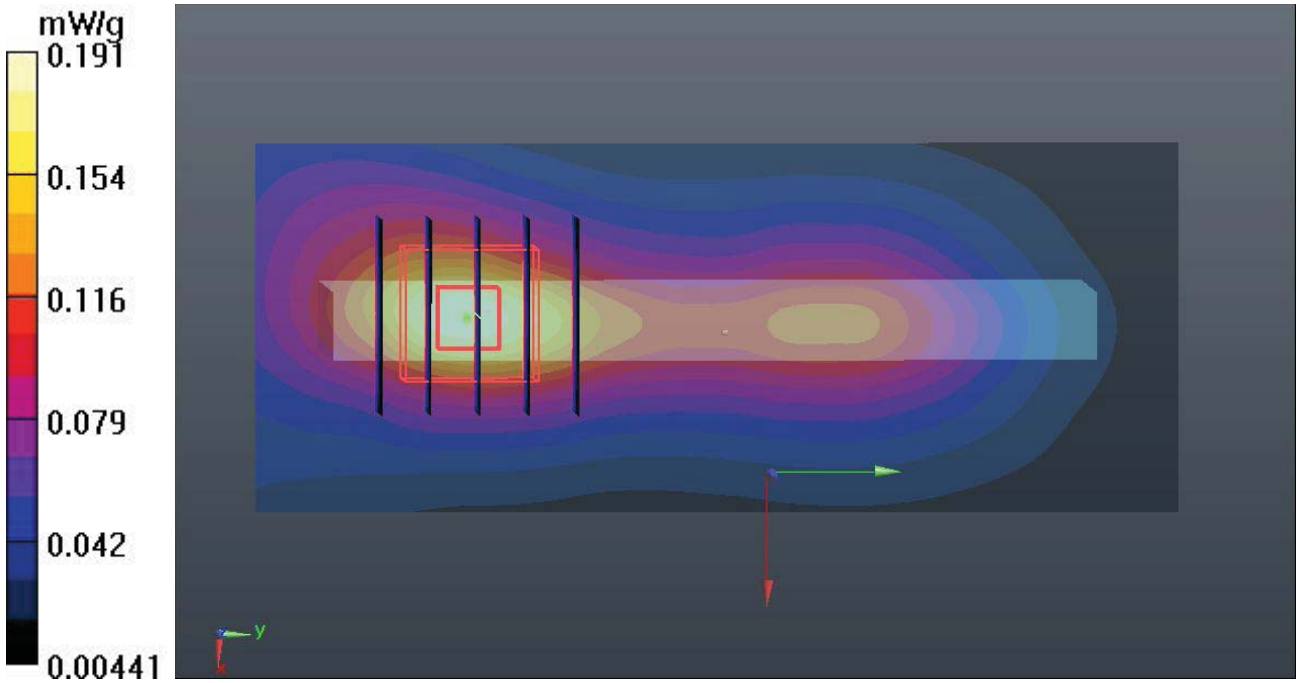
DUT: 240601

Communication System: UMTS; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium: MSL_1900_120502 Medium parameters used: f = 1852.4 MHz; σ = 1.475 mho/m; ε_r = 54.674; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：21.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(7.71, 7.71, 7.71); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch9262/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.191 mW/g

Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.551 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 0.2860
SAR(1 g) = 0.172 mW/g; SAR(10 g) = 0.099 mW/g
Maximum value of SAR (measured) = 0.190 mW/g



16 WCDMA II_RMC 12.2K_Right Side_1cm_Ch9262_Battery#1

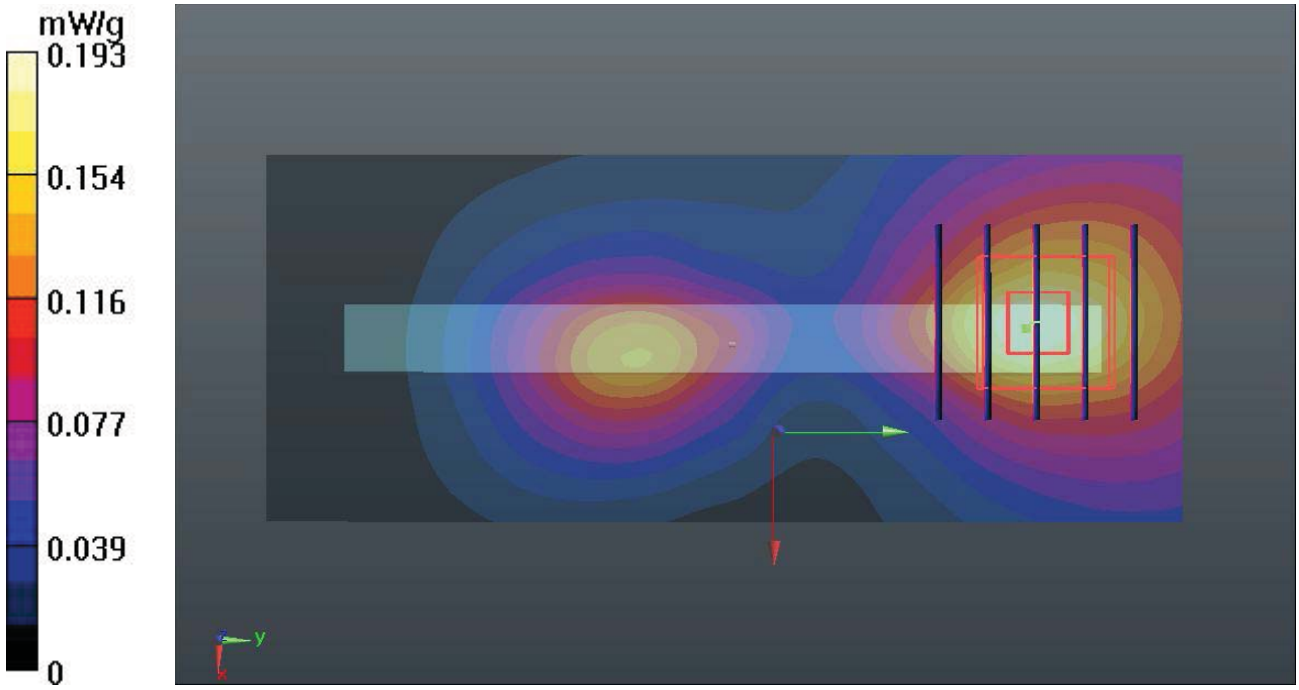
DUT: 240601

Communication System: UMTS; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium: MSL_1900_120502 Medium parameters used: f = 1852.4 MHz; σ = 1.475 mho/m; ε_r = 54.674; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：21.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(7.71, 7.71, 7.71); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch9262/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.193 mW/g

Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.244 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.2840
SAR(1 g) = 0.175 mW/g; SAR(10 g) = 0.105 mW/g
Maximum value of SAR (measured) = 0.193 mW/g



17 WCDMA II_RMC 12.2K_Bottom Side_1cm_Ch9262_Battery#1

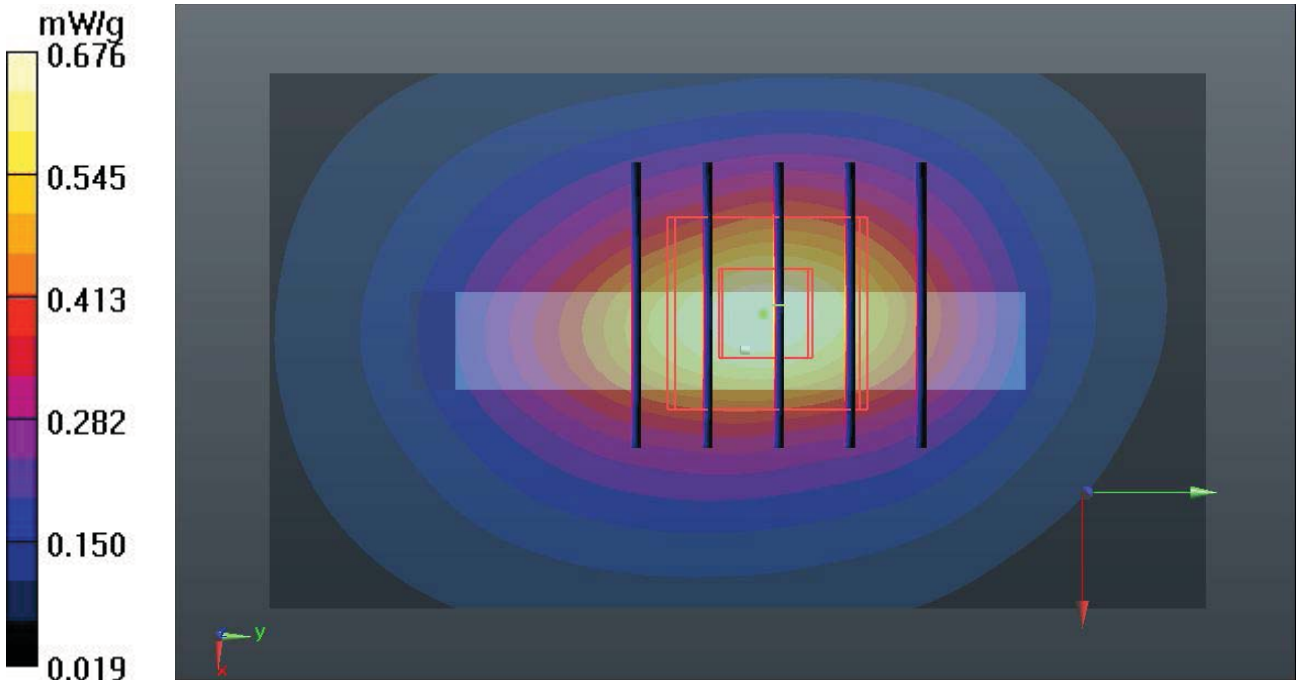
DUT: 240601

Communication System: UMTS; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium: MSL_1900_120502 Medium parameters used: f = 1852.4 MHz; σ = 1.475 mho/m; ε_r = 54.674; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：21.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(7.71, 7.71, 7.71); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch9262/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.676 mW/g

Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.852 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 1.0150
SAR(1 g) = 0.616 mW/g; SAR(10 g) = 0.353 mW/g
Maximum value of SAR (measured) = 0.682 mW/g



18 WCDMA II_RMC 12.2K_Back_1cm_Ch9400_Battery#1

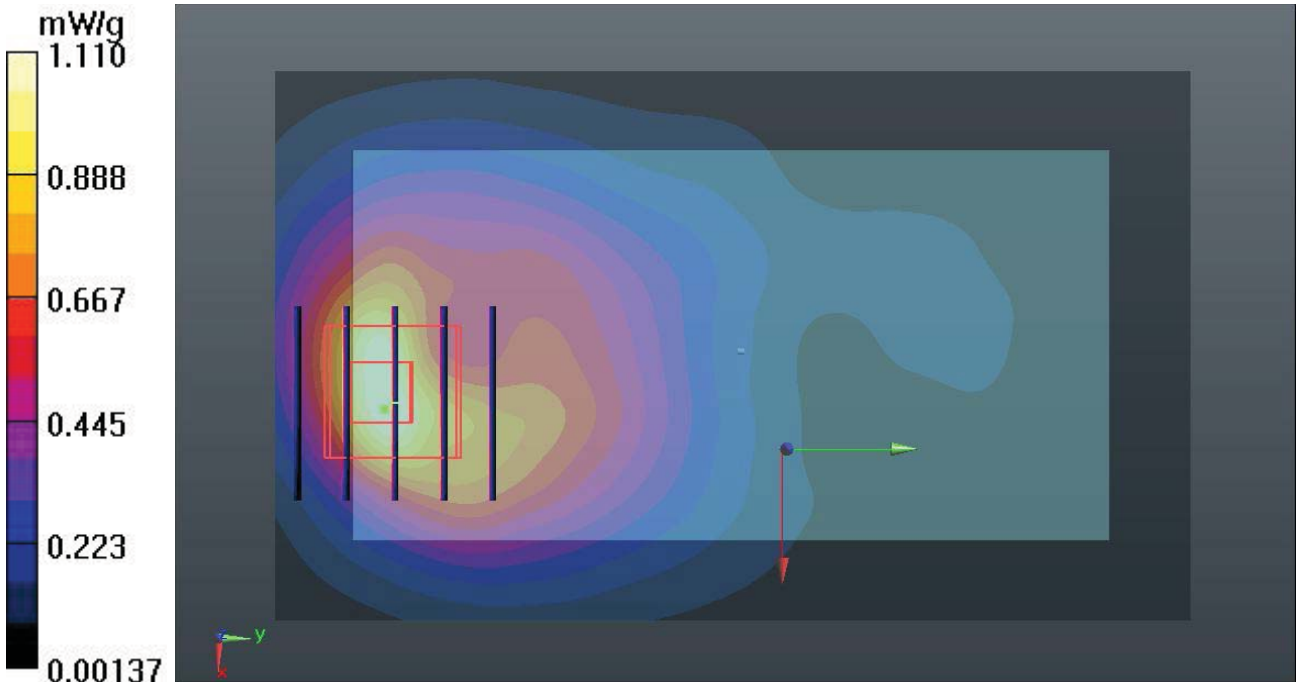
DUT: 240601

Communication System: UMTS; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: MSL_1900_120502 Medium parameters used: f = 1880 MHz; σ = 1.513 mho/m; ε_r = 54.609; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：21.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(7.71, 7.71, 7.71); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch9400/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.110 mW/g

Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.821 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 1.7200
SAR(1 g) = 1.01 mW/g; SAR(10 g) = 0.562 mW/g
Maximum value of SAR (measured) = 1.111 mW/g



19 WCDMA II_RMC 12.2K_Back_1cm_Ch9538_Battery#1

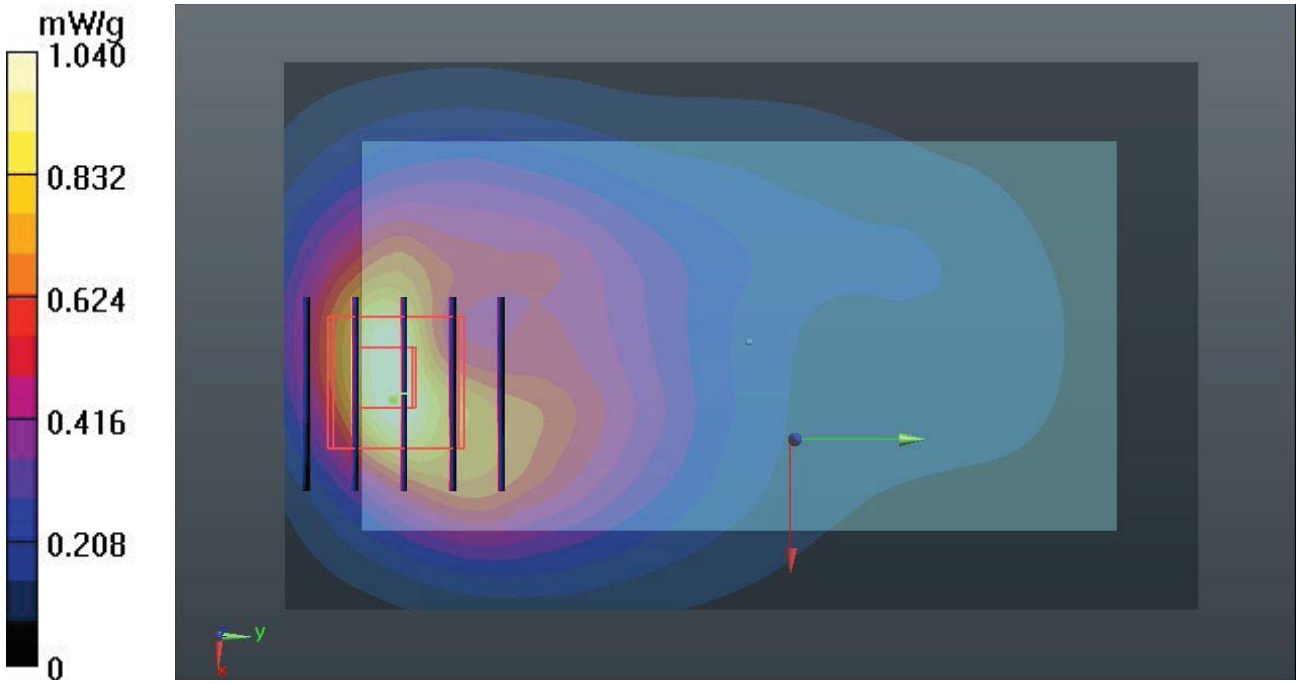
DUT: 240601

Communication System: UMTS; Frequency: 1907.6 MHz;Duty Cycle: 1:1
Medium: MSL_1900_120502 Medium parameters used: f = 1908 MHz; σ = 1.542 mho/m; ε_r = 54.565; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：21.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(7.71, 7.71, 7.71); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch9538/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.040 mW/g

Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.421 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.6140
SAR(1 g) = 0.937 mW/g; SAR(10 g) = 0.517 mW/g
Maximum value of SAR (measured) = 1.024 mW/g



22 WCDMA II_RMC 12.2K_Back_1cm_Ch9400_Battery#2

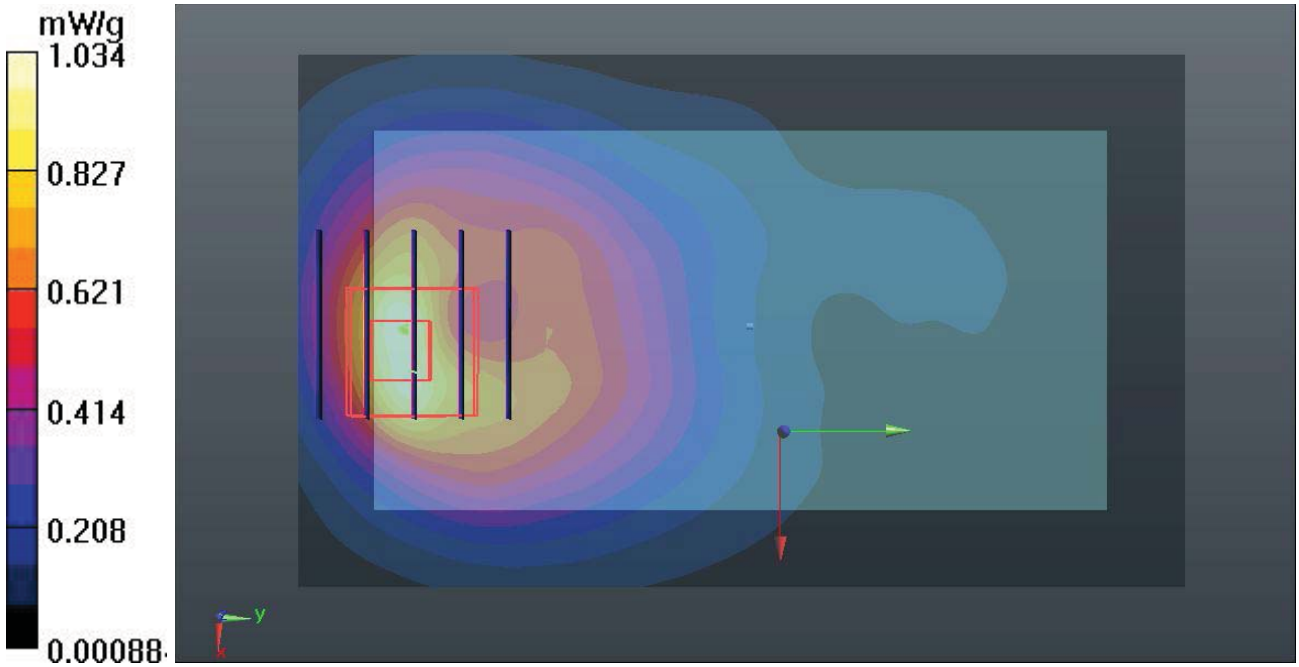
DUT: 240601

Communication System: UMTS; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: MSL_1900_120509 Medium parameters used: f = 1880 MHz; σ = 1.489 mho/m; ε_r = 53.955; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：21.5 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(4.64, 4.64, 4.64); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch9400/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.034 mW/g

Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.626 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 1.5670
SAR(1 g) = 0.930 mW/g; SAR(10 g) = 0.520 mW/g
Maximum value of SAR (measured) = 1.023 mW/g



23 WCDMA II_RMC 12.2K_Back_1cm_Ch9400_Battery#3

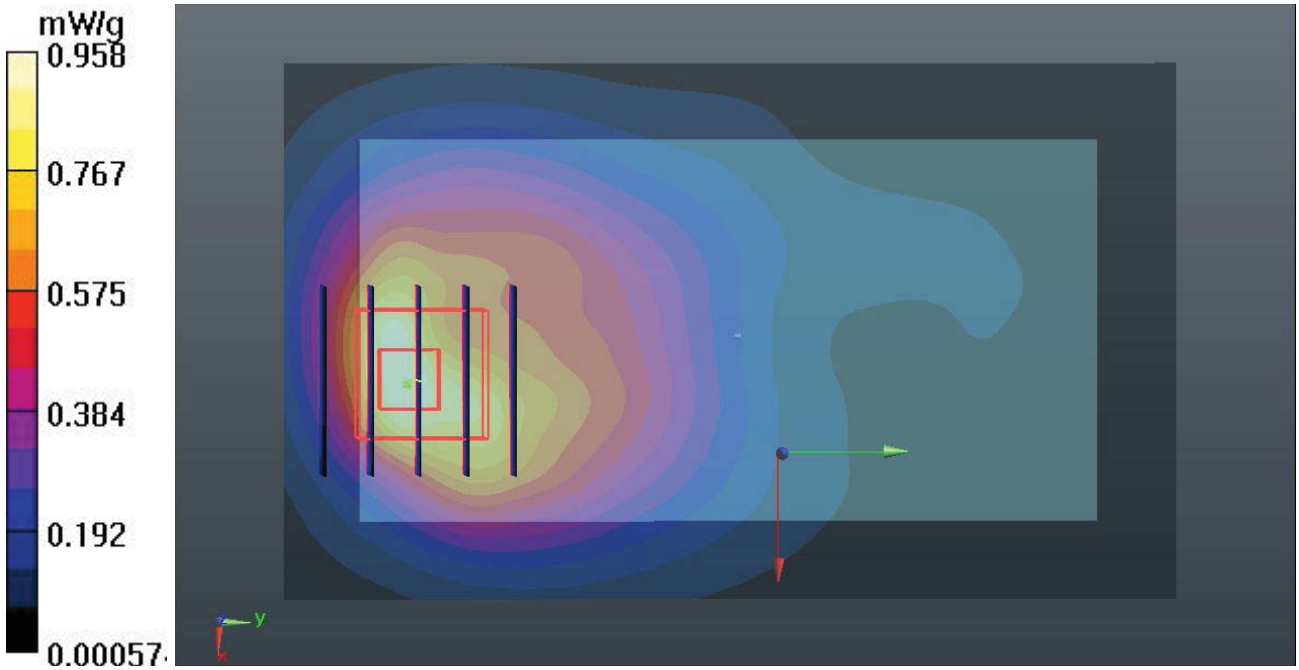
DUT: 240601

Communication System: UMTS; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: MSL_1900_120509 Medium parameters used: f = 1880 MHz; σ = 1.489 mho/m; ε_r = 53.955; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：21.5 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(4.64, 4.64, 4.64); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch9400/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.958 mW/g

Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.445 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 1.5650
SAR(1 g) = 0.929 mW/g; SAR(10 g) = 0.527 mW/g
Maximum value of SAR (measured) = 1.045 mW/g



21 WCDMA II_RMC 12.2K_Back_1cm_Ch9400_Battery#1_Quancheng

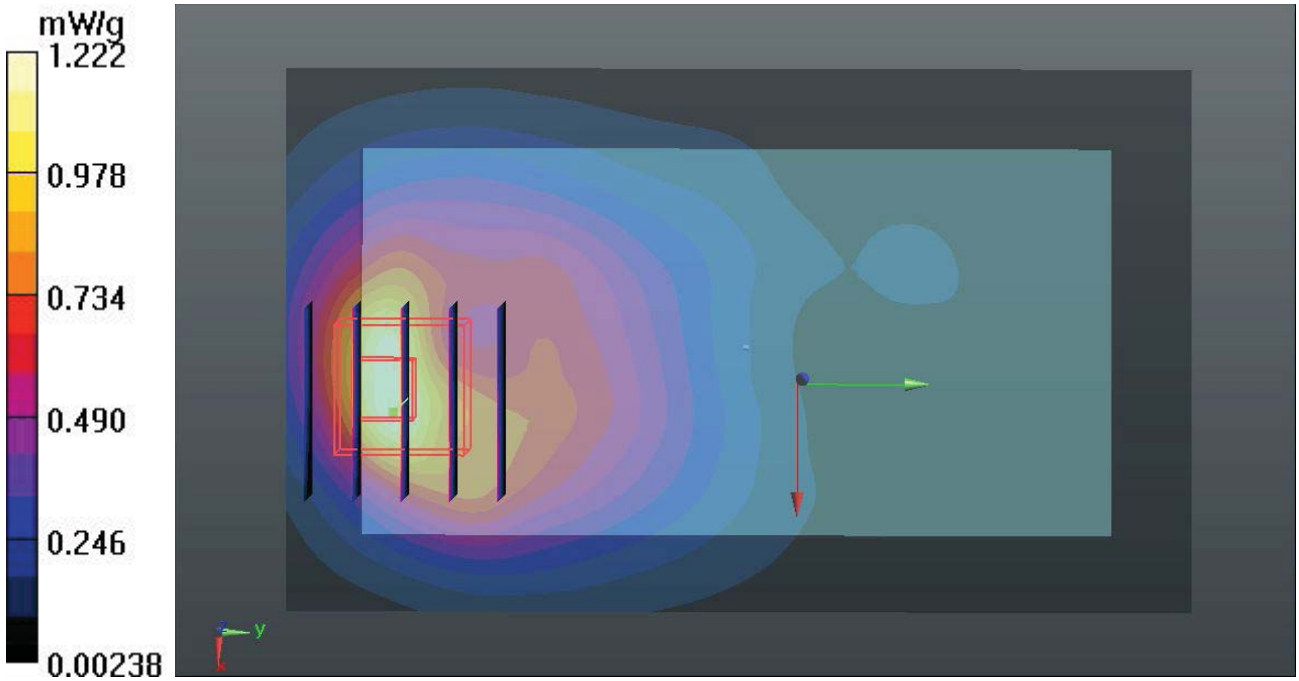
DUT: 240601

Communication System: UMTS; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: MSL_1900_120502 Medium parameters used: f = 1880 MHz; σ = 1.513 mho/m; ε_r = 54.609; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：21.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(7.71, 7.71, 7.71); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch9400/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.222 mW/g

Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.971 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.8990
SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.611 mW/g
Maximum value of SAR (measured) = 1.217 mW/g



66 WCDMA II_RMC 12.2K_Back_1cm_Ch9262_Battery#1_Quancheng

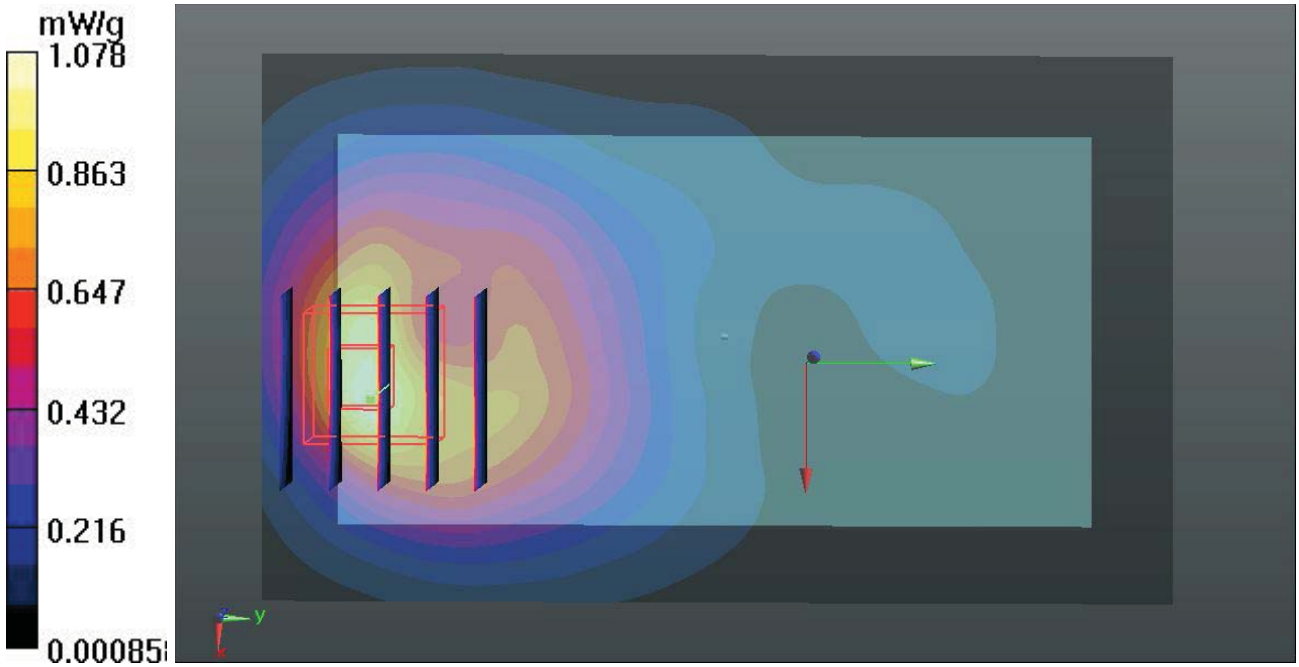
DUT: 240601

Communication System: UMTS; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium: MSL_1900_120509 Medium parameters used: f = 1852.4 MHz; σ = 1.458 mho/m; ε_r = 54.025; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：21.5 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(4.64, 4.64, 4.64); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch9262/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.078 mW/g

Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.002 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 1.5470
SAR(1 g) = 0.926 mW/g; SAR(10 g) = 0.529 mW/g
Maximum value of SAR (measured) = 0.998 mW/g



67 WCDMA II_RMC 12.2K_Back_1cm_Ch9538_Battery#1_Quancheng

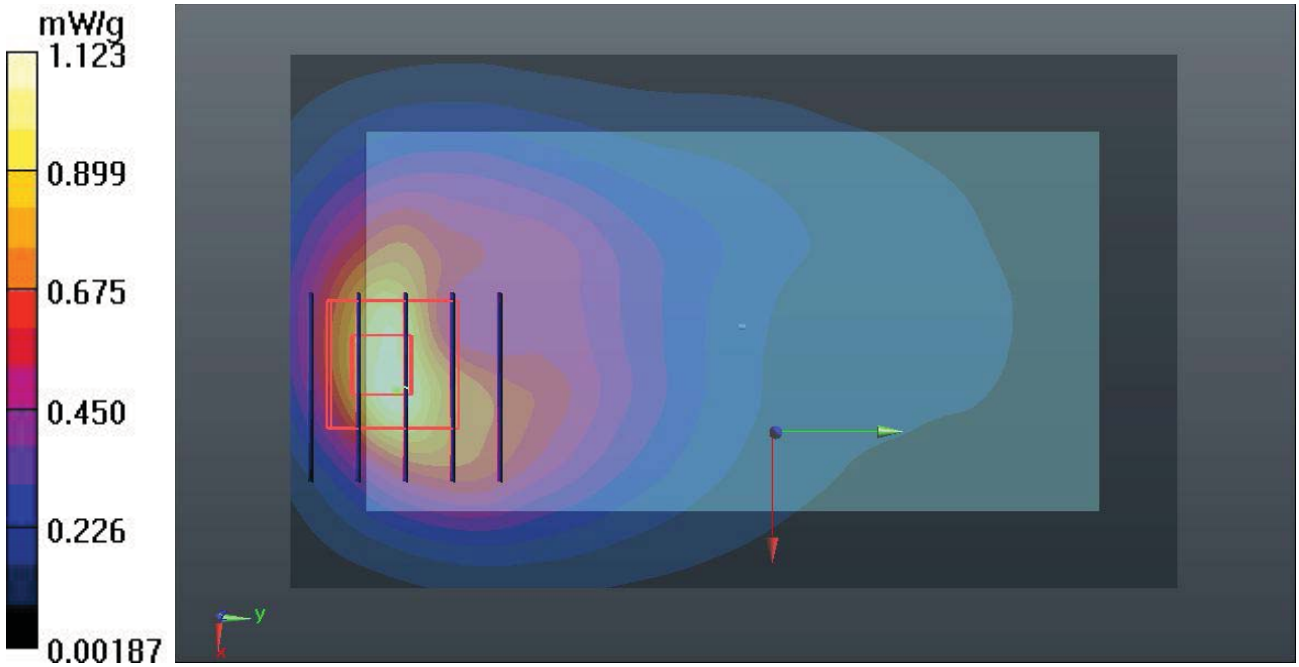
DUT: 240601

Communication System: UMTS; Frequency: 1907.6 MHz;Duty Cycle: 1:1
Medium: MSL_1900_120509 Medium parameters used: f = 1908 MHz; σ = 1.522 mho/m; ε_r = 53.882; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：21.5 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(4.64, 4.64, 4.64); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch9538/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.123 mW/g

Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.647 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 1.6690
SAR(1 g) = 0.967 mW/g; SAR(10 g) = 0.534 mW/g
Maximum value of SAR (measured) = 1.029 mW/g



24 WCDMA II_RMC 12.2K_Back_1cm_Ch9400_Battery#1_Lianchuang

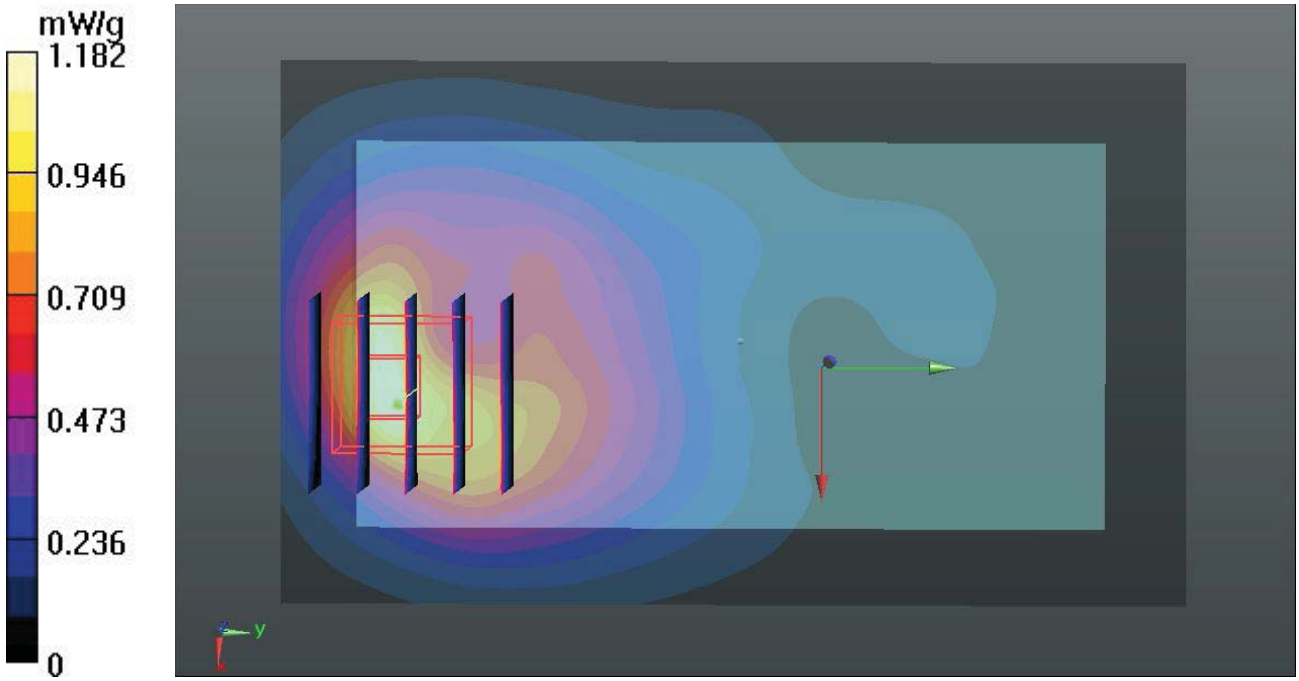
DUT: 240601

Communication System: UMTS; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: MSL_1900_120502 Medium parameters used: f = 1880 MHz; σ = 1.513 mho/m; ε_r = 54.609; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：21.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(7.71, 7.71, 7.71); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch9400/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.182 mW/g

Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.557 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.8590
SAR(1 g) = 1.08 mW/g; SAR(10 g) = 0.593 mW/g
Maximum value of SAR (measured) = 1.177 mW/g



90 WCDMA II_RMC 12.2K_Back_1cm_Ch9262_Battery#1_Lianchuang

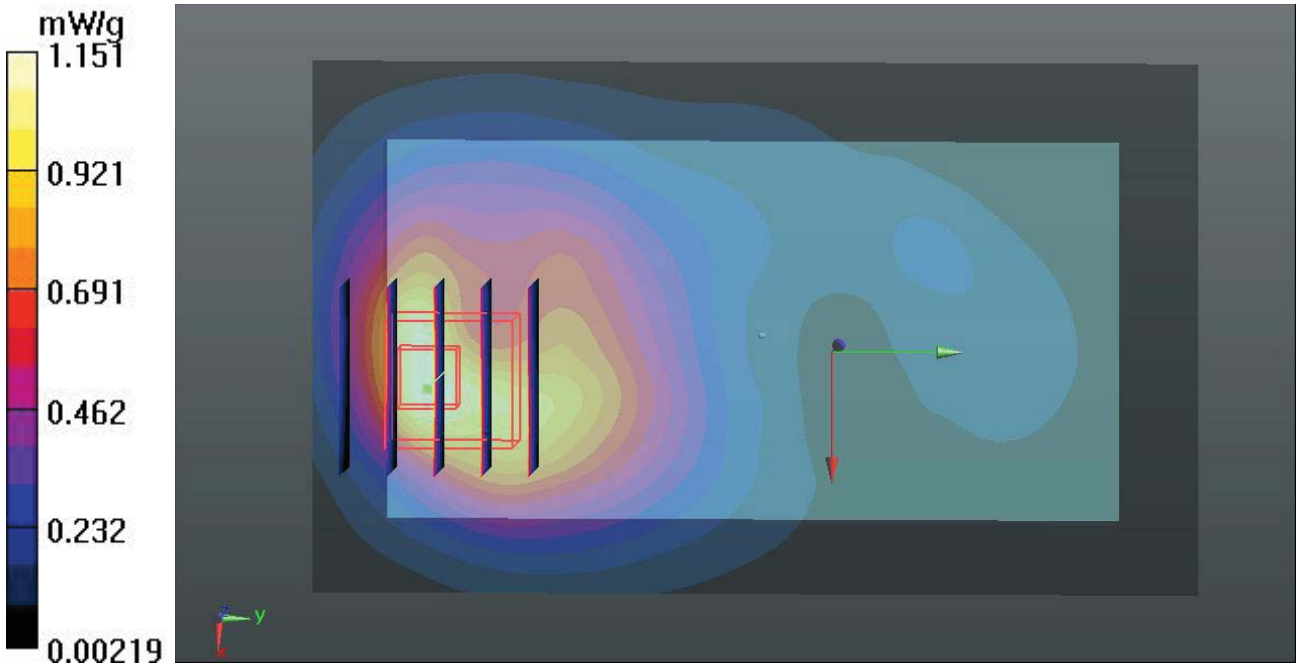
DUT: 240601

Communication System: UMTS; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium: MSL_1900_120509 Medium parameters used: f = 1852.4 MHz; σ = 1.458 mho/m; ε_r = 54.025; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：21.5 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(4.64, 4.64, 4.64); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch9262/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.151 mW/g

Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.055 V/m; Power Drift = 0.0042 dB
Peak SAR (extrapolated) = 1.7920
SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.598 mW/g
Maximum value of SAR (measured) = 1.179 mW/g



91 WCDMA II_RMC 12.2K_Back_1cm_Ch9538_Battery#1_Lianchuang

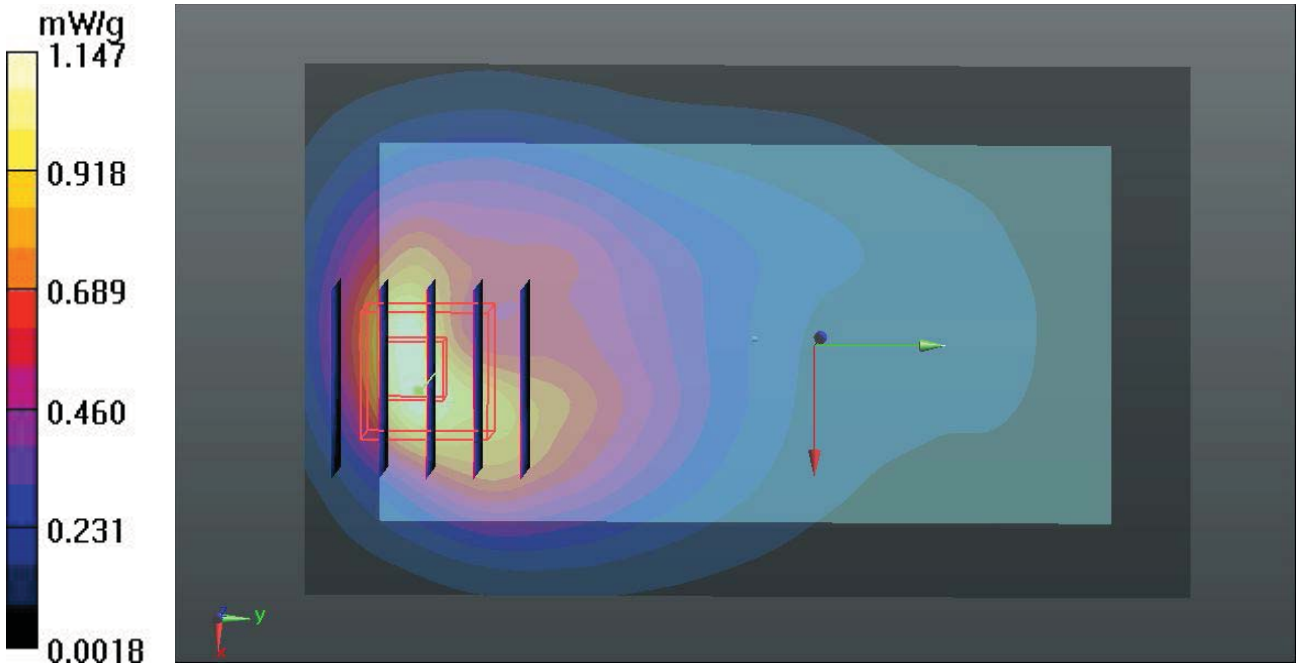
DUT: 240601

Communication System: UMTS; Frequency: 1907.6 MHz;Duty Cycle: 1:1
Medium: MSL_1900_120509 Medium parameters used: f = 1908 MHz; σ = 1.522 mho/m; ε_r = 53.882; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：21.5 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(4.64, 4.64, 4.64); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch9538/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.147 mW/g

Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.804 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.8450
SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.570 mW/g
Maximum value of SAR (measured) = 1.169 mW/g



51 802.11b_Front_1cm_Ch1 _Battery#1

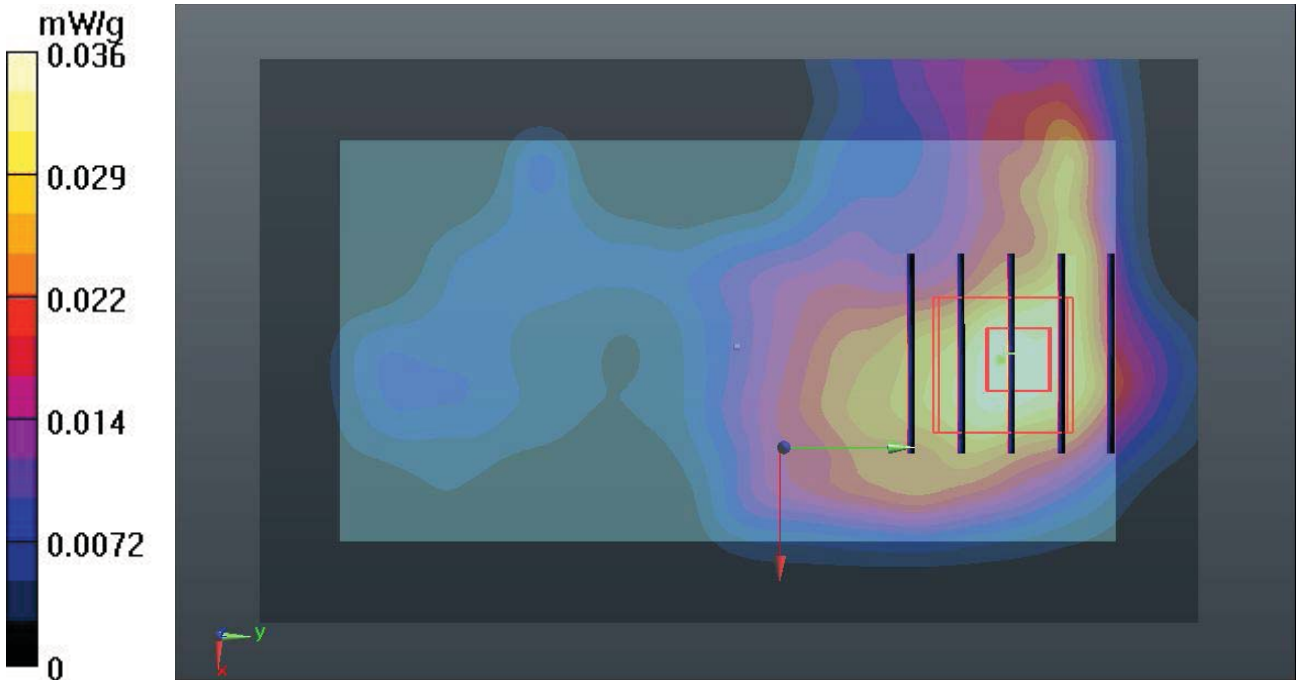
DUT: 240601

Communication System: WIFI; Frequency: 2412 MHz;Duty Cycle: 1:1
Medium: MSL_2450_120503 Medium parameters used: f = 2412 MHz; σ = 1.933 mho/m; ε_r = 53.535; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature：21.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(7.4, 7.4, 7.4); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch1/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.036 mW/g

Ch1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.135 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.0530
SAR(1 g) = 0.033 mW/g; SAR(10 g) = 0.018 mW/g
Maximum value of SAR (measured) = 0.035 mW/g



52 802.11b_Back_1cm_Ch1_Battery#1

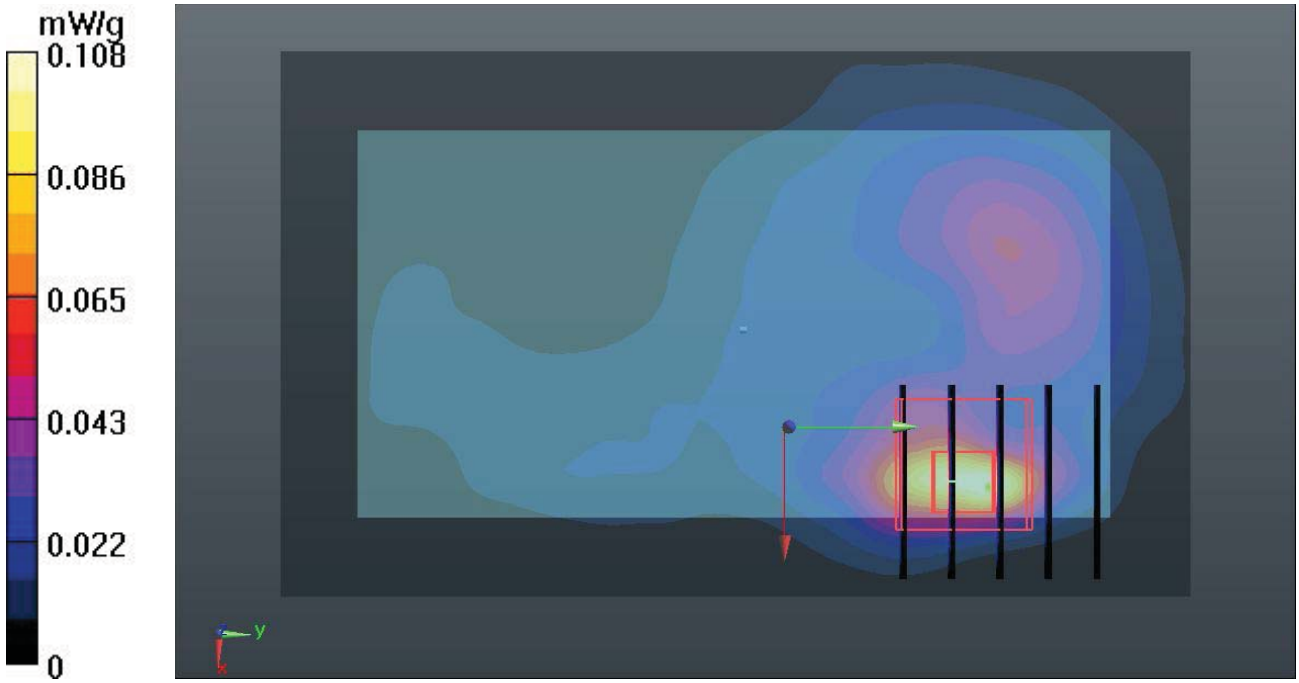
DUT: 240601

Communication System: WIFI; Frequency: 2412 MHz;Duty Cycle: 1:1
Medium: MSL_2450_120503 Medium parameters used: f = 2412 MHz; σ = 1.933 mho/m; ε_r = 53.535; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature：21.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(7.4, 7.4, 7.4); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch1/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.108 mW/g

Ch1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.815 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.2290
SAR(1 g) = 0.099 mW/g; SAR(10 g) = 0.039 mW/g
Maximum value of SAR (measured) = 0.110 mW/g



Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 03.05.2012

53 802.11b_Left Side_1cm_Ch1_Battery#1

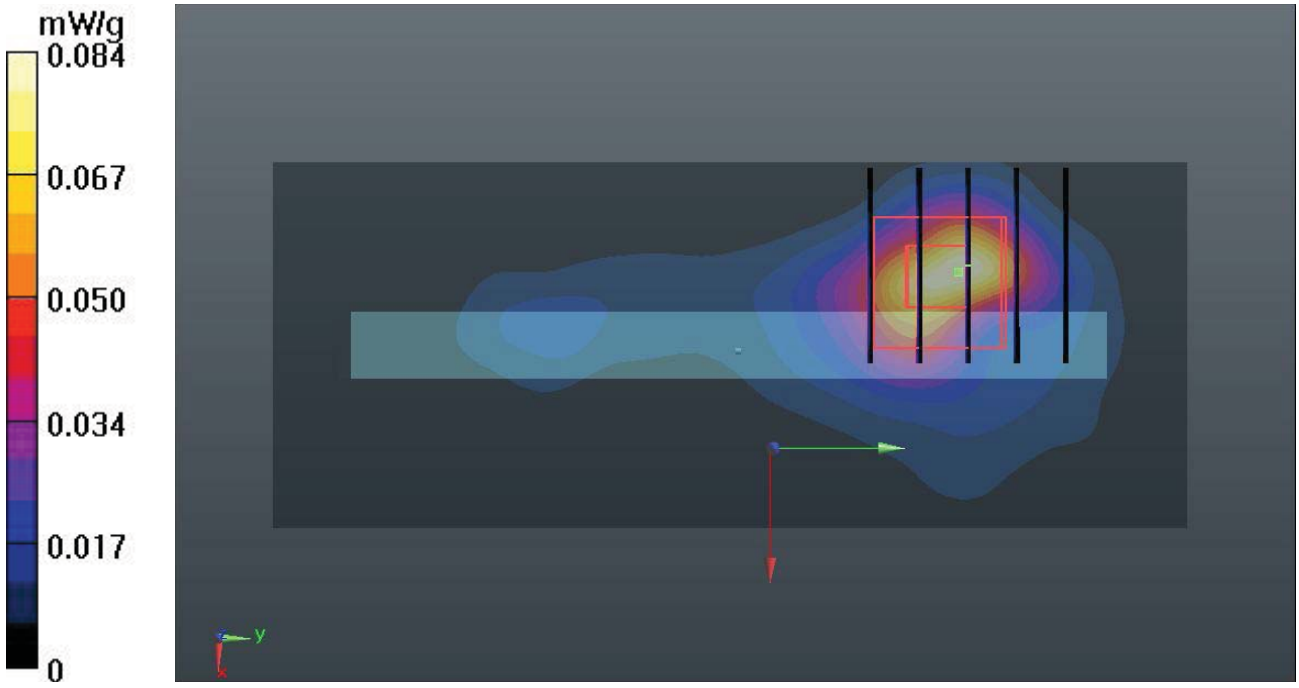
DUT: 240601

Communication System: WIFI; Frequency: 2412 MHz;Duty Cycle: 1:1
Medium: MSL_2450_120503 Medium parameters used: f = 2412 MHz; σ = 1.933 mho/m; ε_r = 53.535; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature：21.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(7.4, 7.4, 7.4); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch1/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.084 mW/g

Ch1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.891 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.1240
SAR(1 g) = 0.065 mW/g; SAR(10 g) = 0.030 mW/g
Maximum value of SAR (measured) = 0.077 mW/g



54 802.11b_Top Side_1cm_Ch1_Battery#1

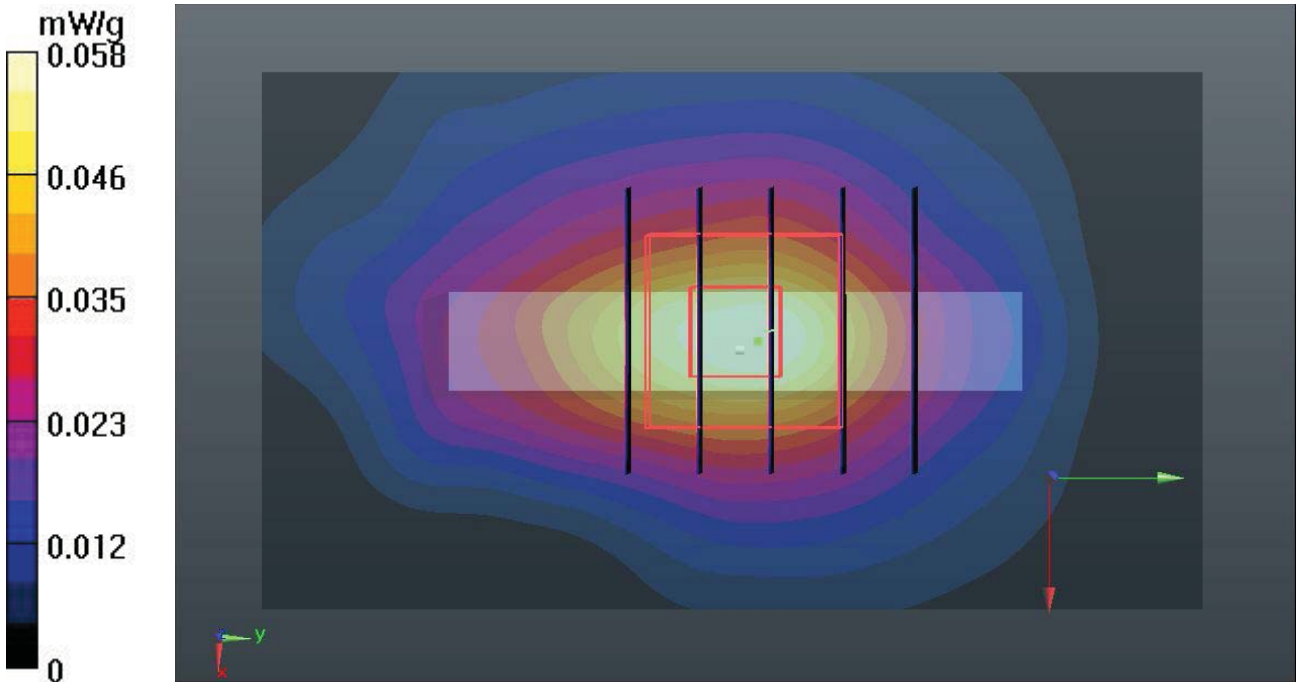
DUT: 240601

Communication System: WIFI; Frequency: 2412 MHz;Duty Cycle: 1:1
Medium: MSL_2450_120503 Medium parameters used: f = 2412 MHz; σ = 1.933 mho/m; ε_r = 53.535; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature：21.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(7.4, 7.4, 7.4); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch1/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.058 mW/g

Ch1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.441 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 0.0910
SAR(1 g) = 0.053 mW/g; SAR(10 g) = 0.027 mW/g
Maximum value of SAR (measured) = 0.059 mW/g



57 802.11b_Back_1cm_Ch1_Battery#2

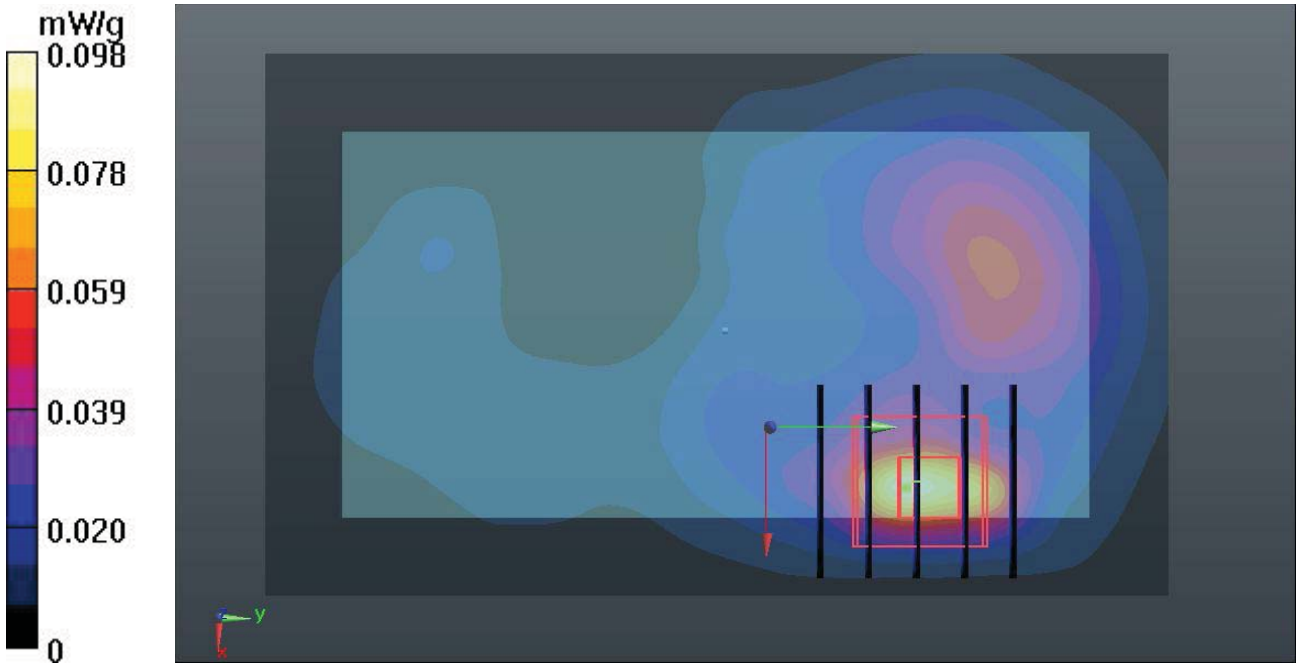
DUT: 240601

Communication System: WIFI; Frequency: 2412 MHz;Duty Cycle: 1:1
Medium: MSL_2450_120509 Medium parameters used: f = 2412 MHz; σ = 1.87 mho/m; ε_r = 54.093; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature：21.6 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(4.28, 4.28, 4.28); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch1/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.098 mW/g

Ch1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.945 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.2180
SAR(1 g) = 0.089 mW/g; SAR(10 g) = 0.036 mW/g
Maximum value of SAR (measured) = 0.104 mW/g



58 802.11b_Back_1cm_Ch1_Battery#3

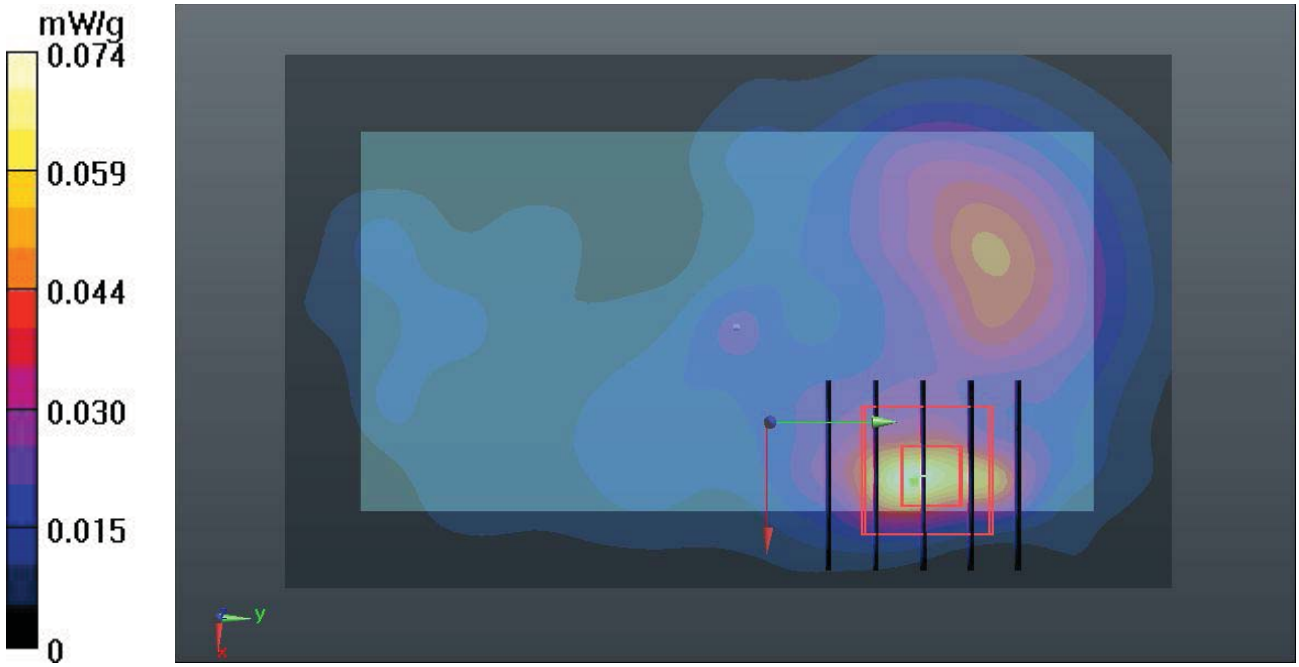
DUT: 240601

Communication System: WIFI; Frequency: 2412 MHz;Duty Cycle: 1:1
Medium: MSL_2450_120509 Medium parameters used: f = 2412 MHz; σ = 1.87 mho/m; ε_r = 54.093; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature：21.6 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(4.28, 4.28, 4.28); Calibrated: 12.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch1/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.074 mW/g

Ch1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.289 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.1560
SAR(1 g) = 0.066 mW/g; SAR(10 g) = 0.027 mW/g
Maximum value of SAR (measured) = 0.082 mW/g



56 802.11b_Back_1cm_Ch1_Battery#1_Quancheng

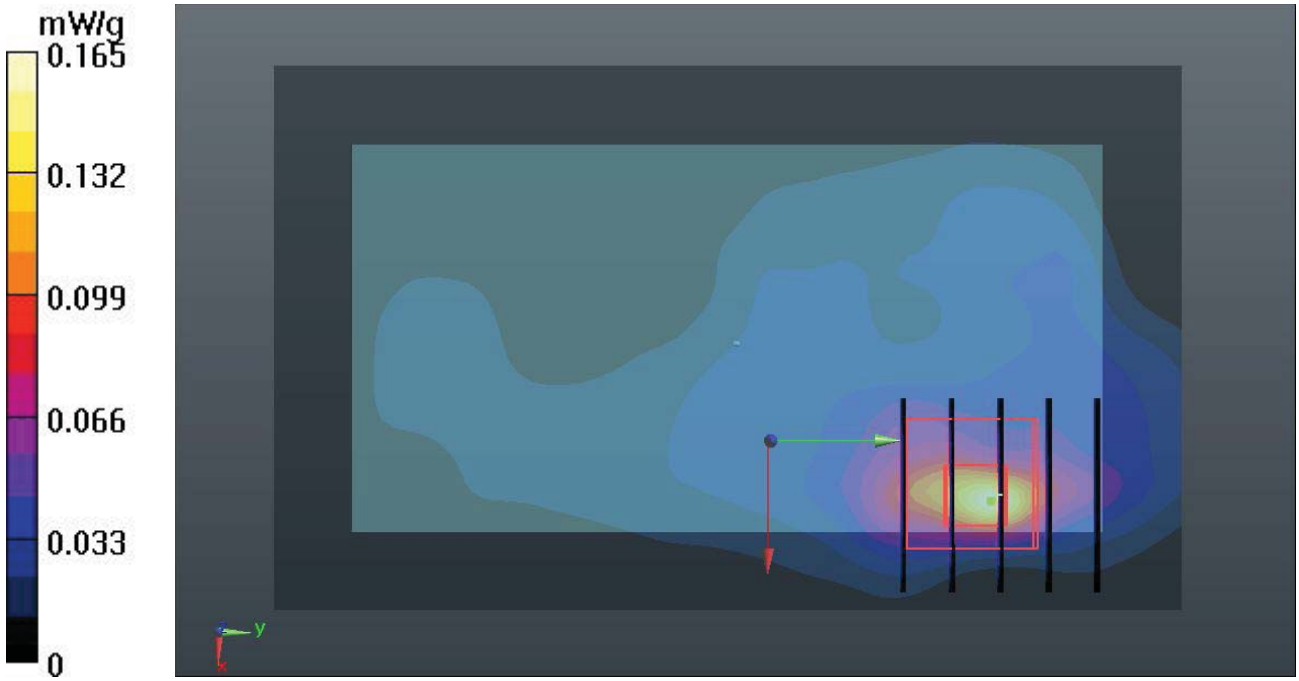
DUT: 240601

Communication System: WIFI; Frequency: 2412 MHz;Duty Cycle: 1:1
Medium: MSL_2450_120503 Medium parameters used: f = 2412 MHz; σ = 1.933 mho/m; ε_r = 53.535; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature：21.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(7.4, 7.4, 7.4); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch1/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.165 mW/g

Ch1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.234 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.3380
SAR(1 g) = 0.140 mW/g; SAR(10 g) = 0.058 mW/g
Maximum value of SAR (measured) = 0.160 mW/g



56 802.11b_Back_1cm_Ch1_Battery#1_Quancheng_2D

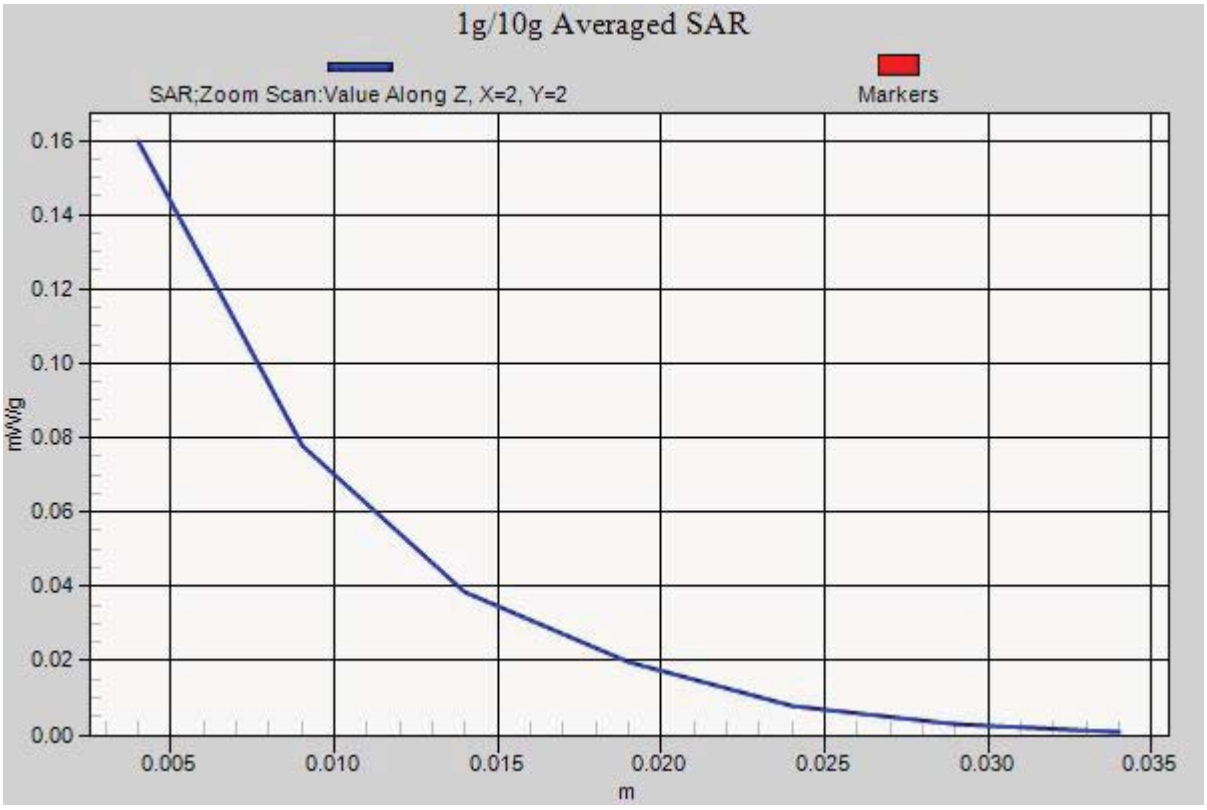
DUT: 240601

Communication System: WIFI; Frequency: 2412 MHz;Duty Cycle: 1:1
Medium: MSL_2450_120503 Medium parameters used: f = 2412 MHz; σ = 1.933 mho/m; ε_r = 53.535; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃； Liquid Temperature：21.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(7.4, 7.4, 7.4); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch1/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.165 mW/g

Ch1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.234 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.3380
SAR(1 g) = 0.140 mW/g; SAR(10 g) = 0.058 mW/g
Maximum value of SAR (measured) = 0.160 mW/g



Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 03.05.2012

59 802.11b_Back_1cm_Ch1_Battery#1_Lianchuang

DUT: 240601

Communication System: WIFI; Frequency: 2412 MHz;Duty Cycle: 1:1
Medium: MSL_2450_120503 Medium parameters used: f = 2412 MHz; σ = 1.933 mho/m; ε_r = 53.535; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature：21.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3819; ConvF(7.4, 7.4, 7.4); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

Ch1/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.173 mW/g

Ch1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.075 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.2620
SAR(1 g) = 0.138 mW/g; SAR(10 g) = 0.060 mW/g
Maximum value of SAR (measured) = 0.168 mW/g