FCC SAR Test Report

Report No.	:	**SA120829C03**
Applicant	:	**ASUSTeK COMPUTER INC.**
Address	:	**4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan, R.O.C.**
Product	:	**ASUS Pad**
FCC ID	:	**MSQME370TG**
Brand	:	**ASUS**
Model No.	:	**ME370TG**
Standards	:	**FCC 47 CFR Part 2 (2.1093) / IEEE C95.1:1991 / IEEE 1528:2003** **FCC OET Bulletin 65 Supplement C (Edition 01-01)** **KDB 447498 D01 v04 / KDB 616217 D03 v01** **KDB 941225 D01 / KDB 941225 D03 v01**
Date of Testing	:	**Aug. 29, 2012 ~ Sep. 20, 2012**

CERTIFICATION: The above equipment have been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch - Taiwan HwaYa Lab**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's SAR characteristics under the conditions specified in this report. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product certification, approval, or endorsement by TAF or any government agencies.

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Approved By : Roy Wu / Manager

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Release Control Record

Issue No.	Reason for Change	Date Issued
R01	Original release	Sep. 21, 2012
R02	Revised the product name and accessories list	Sep. 28, 2012

1. Summary of Maximum SAR Value

Mode / Band	Test Position	SAR-1g (W/kg)
GSM850	Body	0.916
GSM1900	Body	1.3
WCDMA Band II	Body	1.39
WCDMA Band IV	Body	1.12
WCDMA Band V	Body	1.12
WLAN 2.4GHz	Body	N/A
Bluetooth	Body	N/A

Note:

1. The SAR limit **(1.6 W/kg)** for general population/uncontrolled exposure is specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1991.
2. Since the WLAN / Bluetooth maximum power is less than 60/f, SAR testing for WLAN / Bluetooth is not required.

2. Description of Equipment Under Test

EUT Type	ASUS Pad
FCC ID	MSQME370TG
Brand Name	ASUS
Model Name	ME370TG
Tx Frequency Bands (Unit: MHz)	GSM850 : 824 ~ 849 GSM1900 : 1850 ~ 1910 WCDMA Band II : 1850 ~ 1910 WCDMA Band IV : 1710 ~ 1755 WCDMA Band V : 824 ~ 849 WLAN : 2400 ~ 2483.5 Bluetooth : 2400 ~ 2483.5
Uplink Modulations	GPRS : GMSK EDGE : 8PSK WCDMA : QPSK 802.11b : DSSS 802.11g/n : OFDM Bluetooth : GFSK
Maximum AVG Conducted Power (Unit: dBm)	GSM850 : 32.05 GSM1900 : 29.67 WCDMA Band II : 24.25 WCDMA Band IV : 24.21 WCDMA Band V : 23.49 802.11b : 13.69 802.11g : 13.63 802.11n HT20 : 12.76
Antenna Type	Fixed Internal Antenna (Peak Gain: -0.54 dBi for 2.4GHz band)
EUT Stage	Identical Prototype

Note:

1. The above EUT information is declared by manufacturer and for more detailed features description please refers to the manufacturer's specifications or User's Manual.

List of Accessory:

AC Adapter	**Brand Name**	ASUS
	Model Name	AD83531
	Power Rating	I/P:100-240Vac, 50-60Hz, 0.3A; O/P: 5Vdc, 2A
Battery	**Brand Name**	ASUS
	Model Name	C11-ME370TG
	Power Rating	3.75Vdc, 4270mAh
	Type	Li-ion
USB Cable	**Brand Name**	DAEC
	Model Name	CABLE USB A TO MICRO USB B AA704700 900MM
	Signal Line Type	0.98 meter non-shielded cable without ferrite core
LCD Panel	**Brand Name**	Hydis
	Model Name	HYDIS/HV070WX2-1E0
Video Camera	**Brand Name**	LITEON
	Model Name	LITE-ON/10P2SF130J
3G Module	**Brand Name**	IMC
	Model Name	XMM6260 platform
WLAN Module	**Brand Name**	Azurewave
	Model Name	NH665
NFC Module	**Brand Name**	NXP
	Model Name	PN65N

3. SAR Measurement System

3.1 Definition of Specific Absorption Rate (SAR)

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

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

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

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

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

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

3.2 SPEAG DASY System

DASY system consists of high precision robot, probe alignment sensor, phantom, robot controller, controlled measurement server and near-field probe. The robot includes six axes that can move to the precision position of the DASY4/5 software defined. The DASY software can define the area that is detected by the probe. The robot is connected to controlled box. Controlled measurement server is connected to the controlled robot box. The DAE includes amplifier, signal multiplexing, AD converter, offset measurement and surface detection. It is connected to the Electro-optical coupler (ECO). The ECO performs the conversion form the optical into digital electric signal of the DAE and transfers data to the PC.

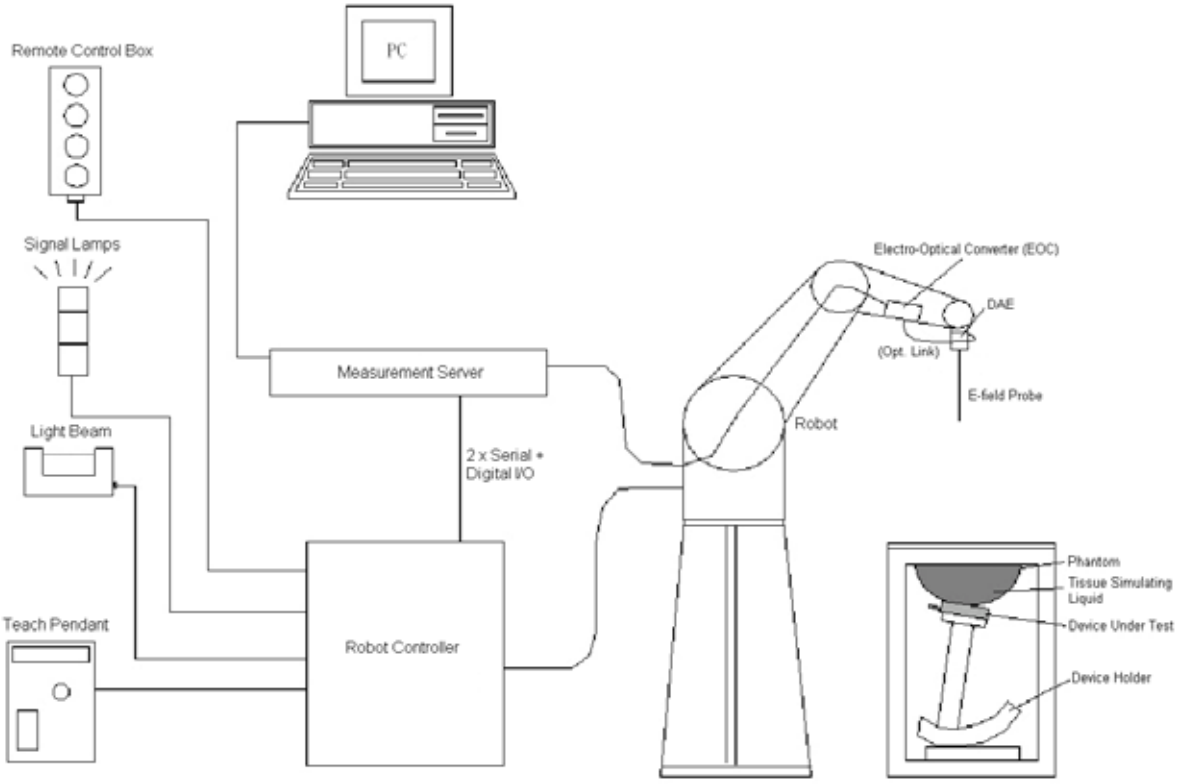


Fig-3.1 DASY System Setup

3.2.1 Robot

The DASY system uses the high precision robots from Stäubli SA (France). For the 6-axis controller system, the robot controller version (DASY4: CS7MB; 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-3.2 DASY4

Fig-3.3 DASY5

3.2.2 Probes

The SAR measurement is conducted with the dosimetric probe. 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.

Model	EX3DV4	
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: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm	

Model	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	

3.2.3 Data Acquisition Electronics (DAE)

Model	DAE3, DAE4	
Construction	Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY4/5 embedded system (fully remote controlled). Two step probe touch detector for mechanical surface detection and emergency robot stop.	
Measurement Range	-100 to +300 mV (16 bit resolution and two range settings: 4mV, 400mV)	
Input Offset Voltage	< 5µV (with auto zero)	
Input Bias Current	< 50 fA	
Dimensions	60 x 60 x 68 mm	

3.2.4 Phantoms

Model	Twin SAM	
Construction	The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209-1. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.	
Material	Vinylester, glass fiber reinforced (VE-GF)	
Shell Thickness	2 ± 0.2 mm (6 ± 0.2 mm at ear point)	
Dimensions	Length: 1000 mm Width: 500 mm Height: adjustable feet	
Filling Volume	approx. 25 liters	

Model	ELI	
Construction	Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.	
Material	Vinylester, glass fiber reinforced (VE-GF)	
Shell Thickness	2.0 ± 0.2 mm (bottom plate)	
Dimensions	Major axis: 600 mm Minor axis: 400 mm	
Filling Volume	approx. 30 liters	

3.2.5 Device Holder

Model	Mounting Device	
Construction	In combination with the Twin SAM Phantom or ELI4, the Mounting Device enables the rotation of the mounted transmitter device in spherical coordinates. Rotation point is the ear opening point. Transmitter devices can be easily and accurately positioned according to IEC, IEEE, FCC or other specifications. The device holder can be locked for positioning at different phantom sections (left head, right head, flat).	
Material	POM	

Model	Laptop Extensions Kit	
Construction	Simple but effective and easy-to-use extension for Mounting Device that facilitates the testing of larger devices according to IEC 62209-2 (e.g., laptops, cameras, etc.). It is lightweight and fits easily on the upper part of the Mounting Device in place of the phone positioner.	
Material	POM, Acrylic glass, Foam	

3.2.6 System Validation Dipoles

Model	D-Serial	
Construction	Symmetrical dipole with l/4 balun. Enables measurement of feed point impedance with NWA. Matched for use near flat phantoms filled with tissue simulating solutions.	
Frequency	750 MHz to 5800 MHz	
Return Loss	> 20 dB	
Power Capability	> 100 W (f < 1GHz), > 40 W (f > 1GHz)	

3.2.7 Tissue Simulating Liquids

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15 cm. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm. The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 5% are listed in Table-3.1.

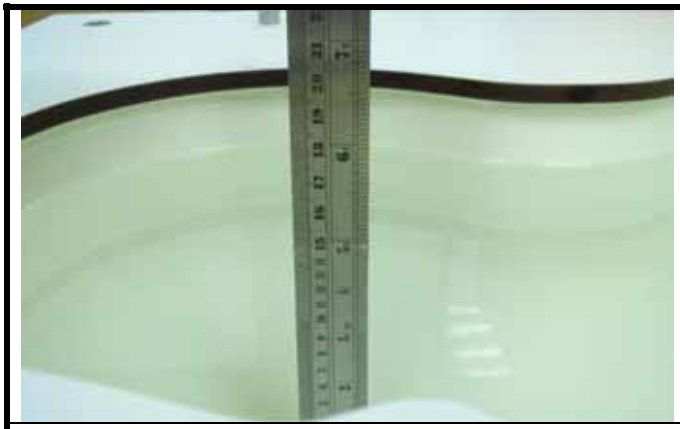


Photo of Liquid Height for Head Position

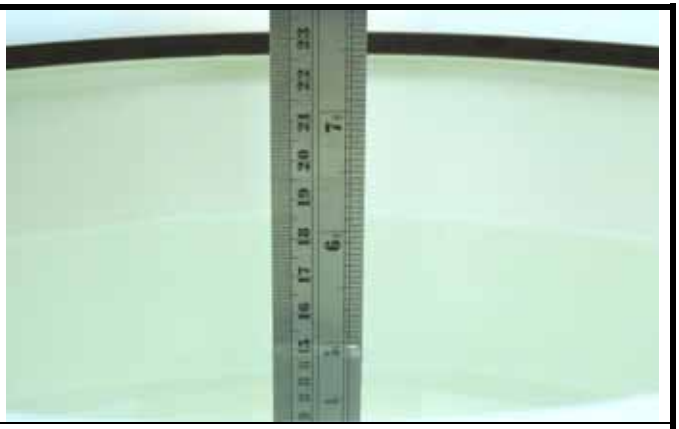


Photo of Liquid Height for Body Position

The dielectric properties of the head tissue simulating liquids are defined in IEEE 1528 and FCC OET 65 Supplement C Appendix C. For the body tissue simulating liquids, the dielectric properties are defined in FCC OET 65 Supplement C Appendix C. The dielectric properties of the tissue simulating liquids were verified prior to the SAR evaluation using an Agilent 85070D Dielectric Probe Kit and an Agilent Network Analyzer.

Table-3.1 Targets of Tissue Simulating Liquid

Frequency (MHz)	Target Permittivity	Range of ±5%	Target Conductivity	Range of ±5%
For Body				
835	55.2	52.4 ~ 58.0	0.97	0.92 ~ 1.02
1750	53.4	50.7 ~ 56.1	1.49	1.42 ~ 1.56
1900	53.3	50.6 ~ 56.0	1.52	1.44 ~ 1.60
2450	52.7	50.1 ~ 55.3	1.95	1.85 ~ 2.05

The following table gives the recipes for tissue simulating liquids.

Table-3.2 Recipes of Tissue Simulating Liquid

Tissue Type	Bactericide	DGBE	HEC	NaCl	Sucrose	Triton X-100	Water	Diethylene Glycol Mono-hexylether
B835	0.2	-	0.2	0.9	48.5	-	50.2	-
B1750	-	31.0	-	0.2	-	-	68.8	-
B1900	-	29.5	-	0.3	-	-	70.2	-
B2450	-	31.4	-	0.1	-	-	68.5	-

3.3 SAR System Verification

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

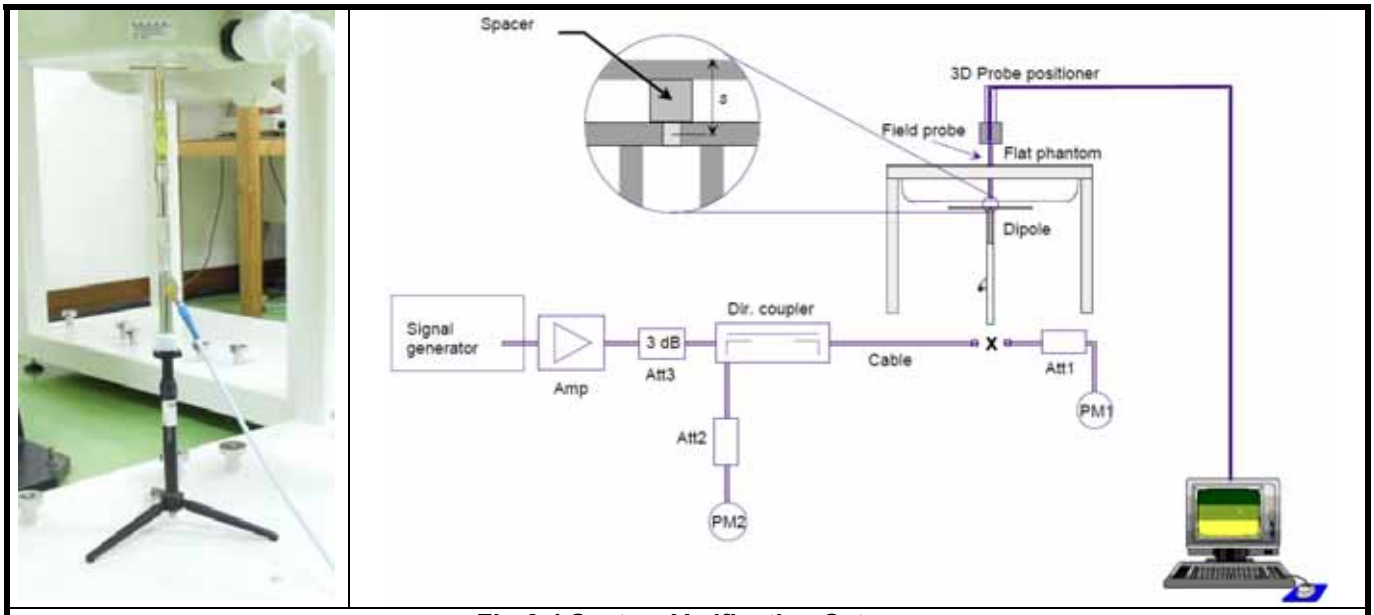


Fig-3.4 System Verification Setup

The validation dipole is placed beneath the flat phantom with the specific spacer in place. The distance spacer is touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The power meter PM1 measures the forward power at the location of the system check dipole connector. The signal generator is adjusted for the desired forward power (250 mW is used for 700 MHz to 3 GHz, 100 mW is used for 3.5 GHz to 6 GHz) at the dipole connector and the power meter PM2 is read at that level. After connecting the cable to the dipole, the signal generator is readjusted for the same reading at power meter PM2.

After system check testing, the SAR result will be normalized to 1W forward input power and compared with the reference SAR value derived from validation dipole certificate report. The deviation of system check should be within 10 %.

3.4 SAR Measurement Procedure

According to the SAR 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

The SAR measurement procedures for each of test conditions are as follows:

(a) Make EUT to transmit maximum output power
(b) Measure conducted output power through RF cable
(c) Place the EUT in the specific position of phantom
(d) Perform SAR testing steps on the DASY system
(e) Record the SAR value

3.4.1 Area & Zoom Scan Procedure

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 below 3 GHz, and 7x7x9 points with step size 4, 4 and 2.5 mm for above 5 GHz. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g.

3.4.2 Volume Scan Procedure

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

3.4.3 Power Drift Monitoring

All SAR testing is under the EUT 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 EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drift more than 5%, the SAR will be retested.

3.4.4 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

3.4.5 SAR Averaged Methods

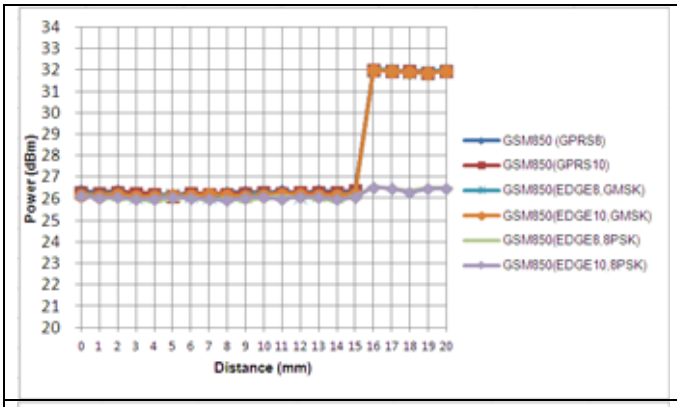
In DASY, the interpolation and extrapolation are both based on the modified Quadratic Shepard's method. The interpolation scheme combines a least-square fitted function method and a weighted average method which are the two basic types of computational interpolation and approximation.

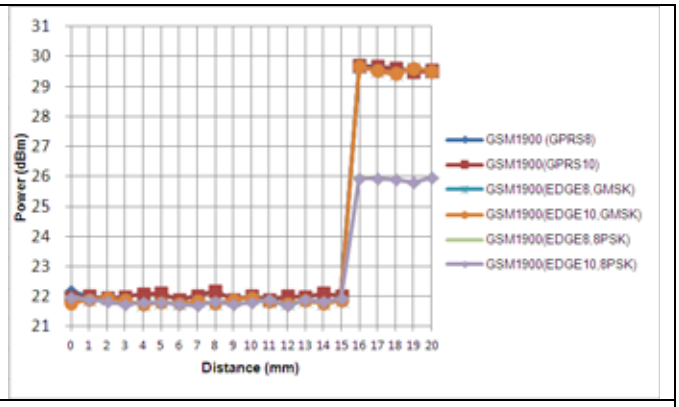
Extrapolation routines are used to obtain SAR values between the lowest measurement points and the inner phantom surface. The extrapolation distance is determined by the surface detection distance and the probe sensor offset. The uncertainty increases with the extrapolation distance. To keep the uncertainty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

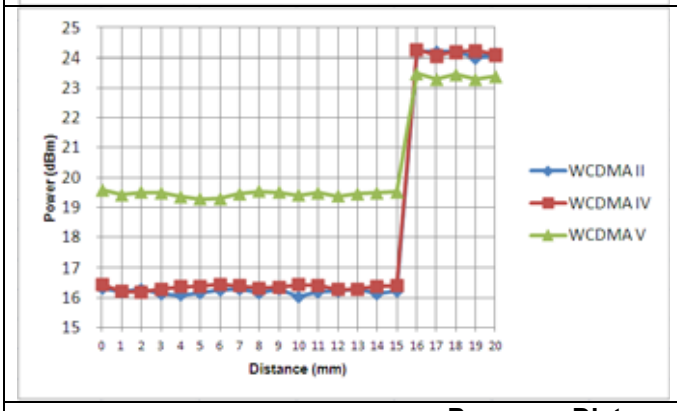
4. SAR Measurement Evaluation

4.1 EUT Configuration and Setting

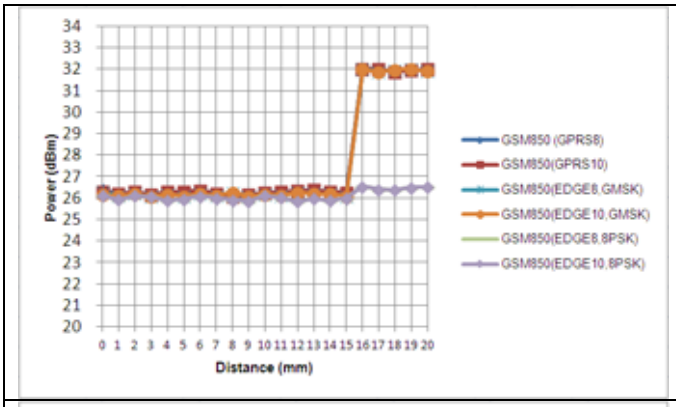
The device is tablet PC which supports WWAN, WLAN and Bluetooth. This tablet PC can be used for four display orientations. It is designed with a proximity sensor which can trigger/not trigger power reduction for WWAN on EUT Rear Face, Secondary Portrait and Primary Landscape orientations. The other RF capabilities (WLAN and BT) have no power reduction. The power vs distance plots for EUT Rear Face, Secondary Portrait edge and Primary Landscape edge are shown as below.

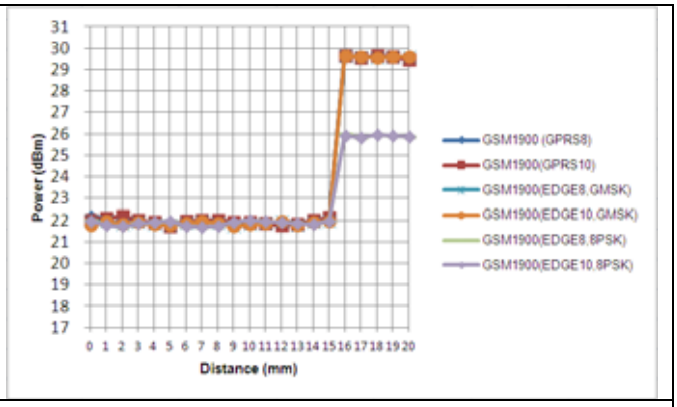


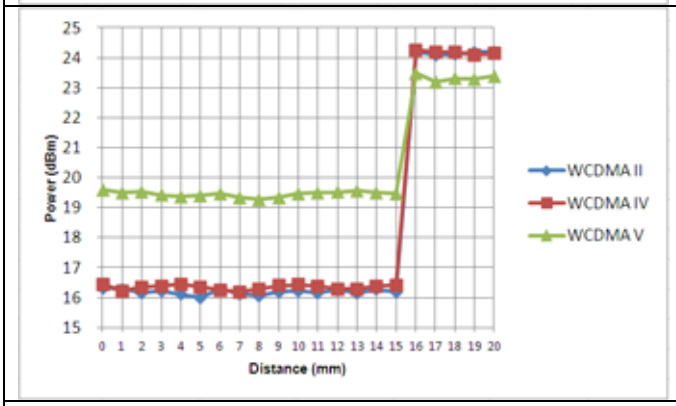




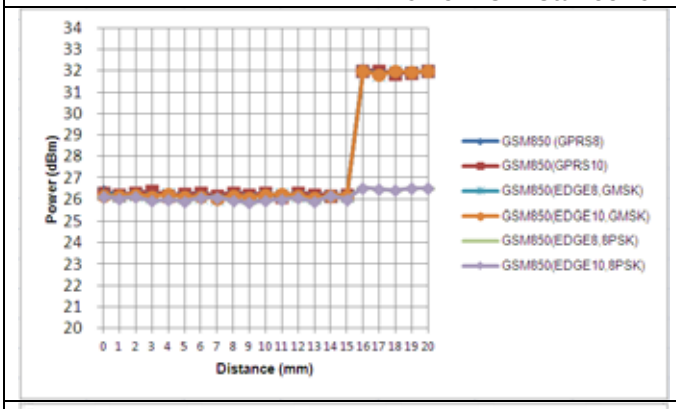
Power vs Distance for EUT Rear Face

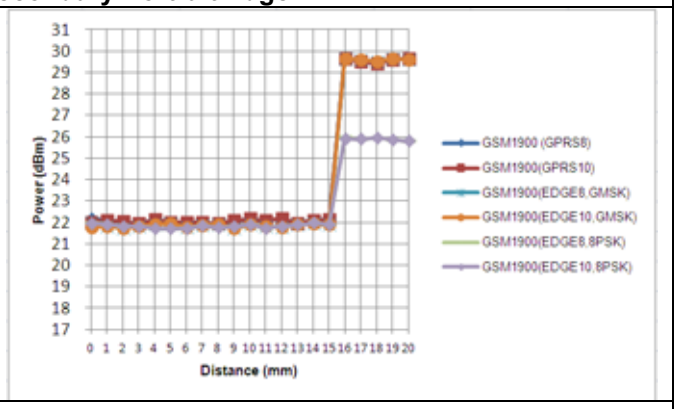


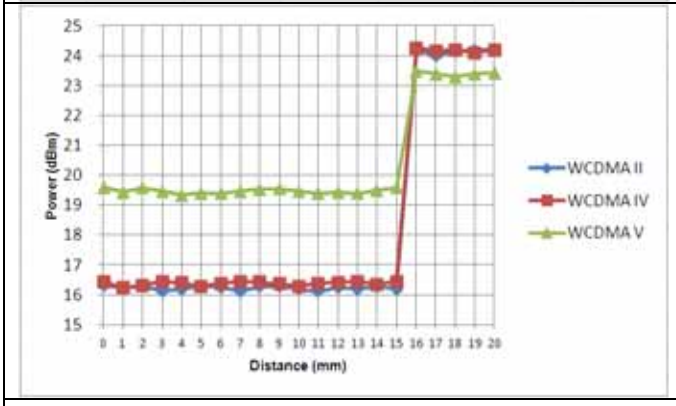




Power vs Distance for Secondary Portrait Edge







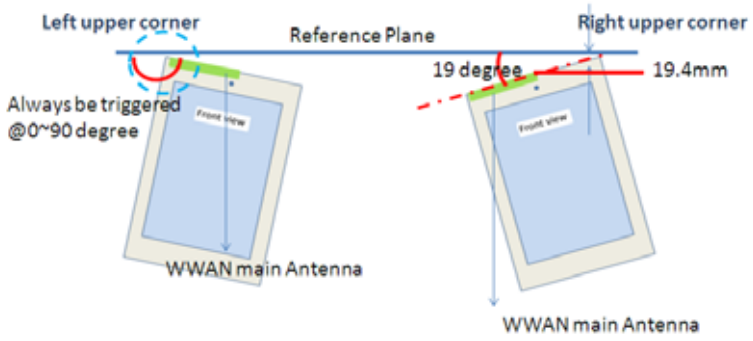
Power vs Distance for Primary Landscape Edge

Based on the separation distance for the sensor triggered / not triggered, we test SAR with power reduction at 0 mm,, and test SAR without power reduction at 14 mm for EUT Rear Face, Secondary Portrait edge, and Primary Landscape edge.

Since the sensing coverage does not cover the right / left edge contour and the power will resume to normal full power while this tablet is tilted to certain angle, we tilt the tablet and test SAR on the angle with the sensor not triggered. When the edge of Secondary Portrait is close to user, the angle of proximity sensor triggered / not triggered at the corner of Top Left and Top Right is listed as below. Based on the angle, we test SAR without power reduction at 19° for Top Edge/Right Corner.

Angle of Top Edge/Left Corner	0° ~ 90°
Proximity Sensor Status	Triggered

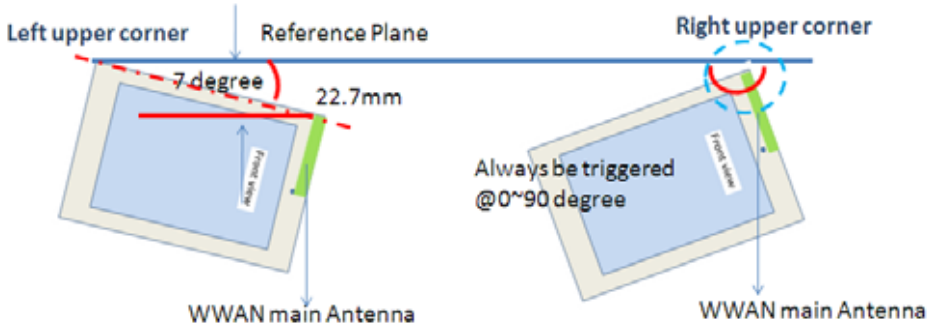
Angle of Top Edge/Right Corner	0° ~ 18°	19°	20°	21°
Proximity Sensor Status	Triggered	Triggered	Not Triggered	Not Triggered



When the edge of Primary Landscape is close to user, the angle of proximity sensor triggered / not triggered at the corner of Top Left and Top Right is listed as below. Based on the angle, we test SAR without power reduction at 7° for Top Edge/Left Corner.

Angle of Top Edge/Left Corner	0° ~ 6°	7°	8°	9°
Proximity Sensor Status	Triggered	Triggered	Not Triggered	Not Triggered

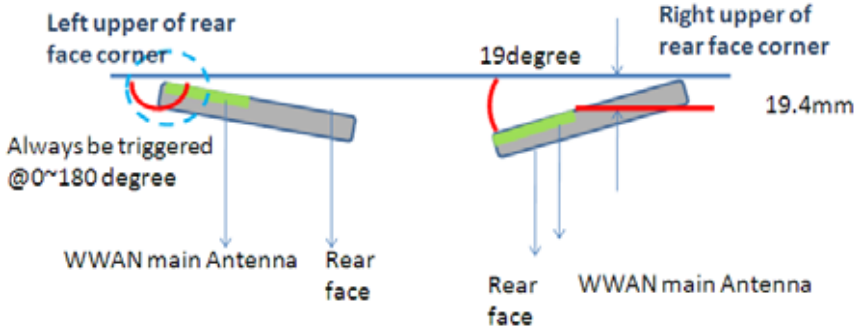
Angle of Top Edge/Right Corner	0° ~ 90°
Proximity Sensor Status	Triggered



When the Rear Face of EUT is close to user, the angle of proximity sensor triggered / not triggered at the corner of EUT Rear Face of Top Left and Top Right is listed as below. Based on the angle, we test SAR without power reduction at 19° for Top Edge/Right Rear Corner.

Angle of Top Edge/Left Rear Corner	0° ~ 180°
Proximity Sensor Status	Triggered

Angle of Top Edge/Right Rear Corner	0° ~ 18°	19°	20°	21°
Proximity Sensor Status	Triggered	Triggered	Not Triggered	Not Triggered



The simultaneous transmission possibilities are listed as below.

Simultaneous Tx Combination	RF Configuration
1	GSM850 (Data) + WLAN 2.4G (Data)
2	GSM1900 (Data) + WLAN 2.4G (Data)
3	WCDMA Band II (Data) + WLAN 2.4G (Data)
4	WCDMA Band IV (Data) + WLAN 2.4G (Data)
5	WCDMA Band V (Data) + WLAN 2.4G (Data)
6	GSM850 (Data) + BT (Data)
7	GSM1900 (Data) + BT (Data)
8	WCDMA Band II (Data) + BT (Data)
9	WCDMA Band IV (Data) + BT (Data)
10	WCDMA Band V (Data) + BT (Data)

Note: This device does not support voice communication capability.

The power reduction is depends on the proximity sensor input. For a steady SAR test, the power reduction can be enabled manually by AT commend during SAR testing. The power reduction can be enabled by below command.
at+xrxdiv=0,1
at+xrxdiv?
at+bodysaron=1
at+bodysargsm=26,26,22,22
at+cfun=1
at+cops=0

For WWAN SAR testing, the EUT was linked and controlled by base station emulator (Agilent E5515C). Communication between the EUT and the emulator was established by air link. The distance between the EUT and the communicating 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 EUT. The EUT was set from the emulator to radiate maximum output power during SAR testing.

For GSM850, the power control level is set to 5. For GPRS850 (GMSK, CS1), the power control level is set to 5. For EDGE850 (GMSK: MCS1, 8PSK:MCS9), the power control level is set to 8. For GSM1900, the power control level is set to 0. For GPRS1900 (GMSK, CS1), the power control level is set to 0. For EDGE1900 (GMSK: MCS1, 8PSK:MCS9), the power control level is set to 2. Body SAR is tested under maximum source-based time-average power mode of GPRS/EDGE.

For WCDMA, head and body SAR is tested under 12.2k RMC mode with power control set all up bits. SAR for AMR is not required since its power is less than 1/4 dB higher than RMC. SAR for HSDPA/HSUPA is not required since its power is less than 1/4 dB higher than RMC without HSDPA/HSUPA.

4.2 EUT Testing Position

The proximity sensor is only active for GSM850/1900 and WCDMA Band II/IV/V on EUT Rear Face, Secondary Portrait edge, and Primary Landscape edge. According to KDB 447498, the SAR is required for antenna located within 5 cm from edge. Based on the antenna location shown on Appendix D of this report, SAR testing condition for each antenna is listed as below.

Mode	Testing Position	Power Reduction	Separation Distance (mm)	SAR Testing
GSM 850 / 1900	Rear Face	Yes	0	Yes
	Rear Face	No	14	Yes
	Primary Portrait	No	0	No
	Secondary Portrait	Yes	0	Yes
	Secondary Portrait	No	14	Yes
	Primary Landscape	Yes	0	Yes
	Primary Landscape	No	14	Yes
	Secondary Landscape	No	0	Yes
WCDMA Band II / IV / V	Rear Face	Yes	0	Yes
	Rear Face	No	14	Yes
	Primary Portrait	No	0	No
	Secondary Portrait	Yes	0	Yes
	Secondary Portrait	No	14	Yes
	Primary Landscape	Yes	0	Yes
	Primary Landscape	No	14	Yes
	Secondary Landscape	No	0	Yes
WLAN 2.4G	Rear Face	No	0	No
	Primary Portrait	No	0	No
	Secondary Portrait	No	0	No
	Primary Landscape	No	0	No
	Secondary Landscape	No	0	No

4.3 Tissue Verification

The measuring results for tissue simulating liquid are shown as below.

Tissue Type	Frequency (MHz)	Liquid Temp. (℃)	Measured Conductivity (σ)	Measured Permittivity (ε_r)	Target Conductivity (σ)	Target Permittivity (ε_r)	Conductivity Deviation (%)	Permittivity Deviation (%)	Test Date
B835	835	20.5	0.973	55.201	0.97	55.2	0.31	0.00	Aug. 29, 2012
B835	835	20.6	0.979	55.898	0.97	55.2	0.93	1.26	Aug. 30, 2012
B835	835	20.6	0.978	55.648	0.97	55.2	0.82	0.81	Sep. 04, 2012
B835	835	21.4	0.991	55.40	0.97	55.2	2.16	0.36	Sep. 20, 2012
B1750	1750	20.5	1.466	53.656	1.49	53.4	-1.61	0.48	Aug. 30, 2012
B1750	1750	20.6	1.468	53.825	1.49	53.4	-1.48	0.80	Aug. 31, 2012
B1750	1750	21.3	1.520	54.60	1.49	53.4	2.01	2.25	Sep. 20, 2012
B1900	1900	20.7	1.545	52.799	1.52	53.3	1.64	-0.94	Aug. 30, 2012
B1900	1900	20.8	1.543	52.865	1.52	53.3	1.51	-0.82	Aug. 31, 2012
B1900	1900	21.3	1.550	53.00	1.52	53.3	1.97	-0.56	Sep. 20, 2012

Note:

The dielectric properties of the tissue simulating liquid must be measured within 24 hours before the SAR testing and within ±5% of the target values. Liquid temperature during the SAR testing must be within ±2 ℃.

4.4 System Verification

The measuring results for system check are shown as below.

Test Date	Frequency (MHz)	1W Target SAR-1g (W/kg)	Measured SAR-1g (W/kg)	Normalized to 1W SAR-1g (W/kg)	Deviation (%)	Dipole S/N	Probe S/N	DAE S/N
Aug. 29, 2012	835	9.60	2.24	8.96	-6.67	4d021	3590	579
Aug. 30, 2012	835	9.60	2.38	9.52	-0.83	4d021	3864	1277
Sep. 04, 2012	835	9.60	2.40	9.60	0.00	4d021	3650	910
Sep. 20, 2012	835	9.60	2.44	9.76	1.67	4d021	3864	1277
Aug. 30, 2012	1750	37.00	9.38	37.52	1.41	1023	3864	1277
Aug. 31, 2012	1750	37.00	9.48	37.92	2.49	1023	3864	1277
Sep. 20, 2012	1750	37.00	9.64	38.56	4.22	1023	3864	1277
Aug. 30, 2012	1900	38.90	9.45	37.80	-2.83	5d036	3864	1277
Aug. 31, 2012	1900	38.90	9.67	38.68	-0.57	5d036	3864	1277
Sep. 20, 2012	1900	38.90	9.55	38.20	-1.80	5d036	3864	1277

Note:

Comparing to the reference SAR value provided by SPEAG, the validation data should be within its specification of 10 %. The result indicates the system check can meet the variation criterion and the plots can be referred to Appendix A of this report.

4.5 Conducted Power Results

The measuring conducted power (Unit: dBm) are shown as below.

Band	GSM850 (P-Sensor Not Triggered)			Power Reduction (dB)	GSM850 (P-Sensor Triggered)		
Channel	128	189	251		128	189	251
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8
Maximum Burst-Averaged Output Power							
GPRS 8 (GMSK, 1 Uplink)	32.01	32.03	32.05	6	26.31	26.36	26.38
GPRS 10 (GMSK, 2 Uplink)	31.98	32.00	32.02	6	26.23	26.27	26.28
EDGE 8 (GMSK, 1 Uplink)	32.00	32.02	32.03	6	26.29	26.24	26.27
EDGE 10 (GMSK, 2 Uplink)	31.98	32.00	32.01	6	26.10	26.15	26.16
EDGE 8 (8PSK, 1 Uplink)	26.50	26.53	26.54	0	26.07	26.10	26.12
EDGE 10 (8PSK, 2 Uplink)	26.46	26.49	26.53	0	26.04	26.07	26.11
Maximum Frame-Averaged Output Power							
GPRS 8 (GMSK, 1 Uplink)	23.01	23.03	23.05	6	17.31	17.36	17.38
GPRS 10 (GMSK, 2 Uplink)	25.98	26.00	**26.02**	6	20.23	20.27	**20.28**
EDGE 8 (GMSK, 1 Uplink)	23.00	23.02	23.03	6	17.29	17.24	17.27
EDGE 10 (GMSK, 2 Uplink)	25.98	26.00	26.01	6	20.10	20.15	20.16
EDGE 8 (8PSK, 1 Uplink)	17.50	17.53	17.54	0	17.07	17.10	17.12
EDGE 10 (8PSK, 2 Uplink)	20.46	20.49	20.53	0	20.04	20.07	20.11

Band	GSM1900 (P-Sensor Not Triggered)			Power Reduction (dB)	GSM1900 (P-Sensor Triggered)		
Channel	512	661	810		512	661	810
Frequency (MHz)	1850.2	1880.0	1909.8		1850.2	1880.0	1909.8
Maximum Burst-Averaged Output Power							
GPRS 8 (GMSK, 1 Uplink)	29.67	29.44	29.49	8	22.19	22.17	22.02
GPRS 10 (GMSK, 2 Uplink)	29.66	29.42	29.48	8	21.99	21.56	21.63
EDGE 8 (GMSK, 1 Uplink)	29.65	29.41	29.47	8	21.98	21.96	21.83
EDGE 10 (GMSK, 2 Uplink)	29.63	29.40	29.46	8	21.77	21.55	21.62
EDGE 8 (8PSK, 1 Uplink)	25.98	25.77	25.82	6	21.99	21.84	21.86
EDGE 10 (8PSK, 2 Uplink)	25.92	25.66	25.73	6	21.95	21.74	21.76
Maximum Frame-Averaged Output Power							
GPRS 8 (GMSK, 1 Uplink)	20.67	20.44	20.49	8	13.19	13.17	13.02
GPRS 10 (GMSK, 2 Uplink)	**23.66**	23.42	23.48	8	**15.99**	15.56	15.63
EDGE 8 (GMSK, 1 Uplink)	20.65	20.41	20.47	8	12.98	12.96	12.83
EDGE 10 (GMSK, 2 Uplink)	23.63	23.40	23.46	8	15.77	15.55	15.62
EDGE 8 (8PSK, 1 Uplink)	16.98	16.77	16.82	6	12.99	12.84	12.86
EDGE 10 (8PSK, 2 Uplink)	19.92	19.66	19.73	6	15.95	15.74	15.76

Note:

1. SAR testing for GPRS/EDGE was performed on the maximum frame-averaged power mode.
2. The configuration of time slot for GPRS/EDGE is listed as below

Multi-slot Class	Maximum Uplink Slot	Maximum Downlink Slot	Maximum Total Timeslots
8	1	4	5
10	2	4	5

3. The frame-averaged power is linearly scaled the maximum burst-averaged power based on time slots. The calculated methods are shown as below:
   Frame-averaged power = Burst-averaged power (1 Uplink) – 9 dBm
   Frame-averaged power = Burst averaged power (2 Uplink) – 6 dBm

Band	WCDMA II (P-Sensor Not Triggered)			Power Reduction (dB)	WCDMA II (P-Sensor Triggered)		
Channel	9262	9400	9538		9262	9400	9538
Frequency (MHz)	1852.4	1880.0	1907.6		1852.4	1880.0	1907.6
RMC 12.2K	24.25	24.17	23.92	8	16.46	16.43	16.23
HSDPA Subtest-1	24.00	23.98	23.69	8	16.15	16.14	15.88
HSDPA Subtest-2	23.04	23.01	22.83	8	15.20	15.13	15.05
HSDPA Subtest-3	22.83	22.79	22.61	8	15.22	15.18	15.07
HSDPA Subtest-4	22.57	22.55	22.37	8	15.37	15.29	15.10
HSUPA Subtest-1	23.01	22.96	22.74	8	15.47	15.37	15.21
HSUPA Subtest-2	21.09	21.03	20.89	8	13.38	13.39	13.11
HSUPA Subtest-3	21.83	21.79	21.61	8	14.54	14.45	14.27
HSUPA Subtest-4	21.38	21.33	21.20	8	14.10	14.03	13.88
HSUPA Subtest-5	23.12	23.09	22.89	8	15.45	15.37	15.18

Band	WCDMA IV (P-Sensor Not Triggered)			Power Reduction (dB)	WCDMA IV (P-Sensor Triggered)		
Channel	1312	1413	1513		1312	1413	1513
Frequency (MHz)	1712.4	1732.6	1752.6		1712.4	1732.6	1752.6
RMC 12.2K	24.21	23.95	23.87	8	16.31	16.28	16.23
HSDPA Subtest-1	23.94	23.72	23.67	8	16.20	16.05	15.94
HSDPA Subtest-2	22.98	22.75	22.72	8	15.23	15.01	14.95
HSDPA Subtest-3	22.78	22.55	22.49	8	15.23	15.03	15.04
HSDPA Subtest-4	22.52	22.30	22.25	8	15.12	15.14	15.09
HSUPA Subtest-1	22.95	22.48	22.69	8	15.12	15.26	15.20
HSUPA Subtest-2	20.95	20.77	20.75	8	13.17	12.87	13.04
HSUPA Subtest-3	21.70	21.55	21.52	8	14.35	14.38	14.27
HSUPA Subtest-4	21.24	21.13	21.11	8	13.93	13.90	13.81
HSUPA Subtest-5	23.05	22.82	22.77	8	15.30	15.21	15.15

Band	WCDMA V (P-Sensor Not Triggered)			Power Reduction (dB)	WCDMA V (P-Sensor Triggered)		
Channel	4132	4182	4233		4132	4182	4233
Frequency (MHz)	826.4	836.4	846.6		826.4	836.4	846.6
RMC 12.2K	23.49	23.47	23.46	4	19.59	19.49	19.55
HSDPA Subtest-1	23.26	23.27	23.25	4	19.49	19.48	19.45
HSDPA Subtest-2	23.25	22.26	22.25	4	19.48	18.47	18.42
HSDPA Subtest-3	22.00	22.03	22.02	4	18.53	18.52	18.47
HSDPA Subtest-4	21.77	21.76	21.76	4	18.55	18.23	18.11
HSUPA Subtest-1	22.22	22.23	22.24	4	18.52	18.51	18.45
HSUPA Subtest-2	20.24	20.29	20.26	4	16.74	16.67	16.56
HSUPA Subtest-3	20.98	21.02	21.01	4	17.46	17.18	17.39
HSUPA Subtest-4	20.55	20.54	20.53	4	17.02	16.95	16.97
HSUPA Subtest-5	22.36	22.40	22.35	4	18.71	18.70	18.83

Band	802.11b			802.11g		
Channel	1	6	11	1	6	11
Frequency (MHz)	2412	2437	2462	2412	2437	2462
Average Power	13.69	13.42	13.13	13.53	13.63	13.33

Band	802.11n (HT20)			-		
Channel	1	6	11	-	-	-
Frequency (MHz)	2412	2437	2462	-	-	-
Average Power	12.76	12.59	12.23	-	-	-

Note : Power reduction is not implemented on WLAN.

4.6 SAR Testing Results

4.6.1 SAR Results for Body

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Channel	P-Sensor Status	Burst Averaged Power	Frame Averaged Power	Power Reduction (dB)	SAR-1g (W/kg)	Power Drift (dB)
1	GSM850	GPRS10	Rear Face	0	251	Triggered	26.28	20.28	6	**0.916**	0.07
2	GSM850	GPRS10	Secondary Portrait	0	251	Triggered	26.28	20.28	6	0.413	-0.08
3	GSM850	GPRS10	Primary Landscape	0	251	Triggered	26.28	20.28	6	0.216	0.02
4	GSM850	GPRS10	Rear Face	0	128	Triggered	26.23	20.23	6	0.808	-0.05
5	GSM850	GPRS10	Rear Face	0	189	Triggered	26.27	20.27	6	0.867	-0.01
36	GSM850	GPRS10	Rear Face	1.4	251	Not Triggered	32.02	26.02	w/o	0.505	-0.09
37	GSM850	GPRS10	Rear Face (Top Edge/Right Rear Corner at 19°)	0	251	Not Triggered	32.02	26.02	w/o	0.559	0.03
38	GSM850	GPRS10	Secondary Portrait	1.4	251	Not Triggered	32.02	26.02	w/o	0.371	-0.03
39	GSM850	GPRS10	Secondary Portrait (Top Edge/Right Corner at 19°)	0	251	Not Triggered	32.02	26.02	w/o	0.349	-0.06
40	GSM850	GPRS10	Secondary Landscape	0	251	Not Triggered	32.02	26.02	w/o	0.369	0.009
41	GSM850	GPRS10	Primary Landscape	1.4	251	Not Triggered	32.02	26.02	w/o	0.089	-0.1
42	GSM850	GPRS10	Primary Landscape (Top Edge/Left Corner at 7°)	0	251	Not Triggered	32.02	26.02	w/o	0.151	-0.04
11	GSM1900	GPRS10	Rear Face	0	512	Triggered	21.99	15.99	8	0.893	0.04
12	GSM1900	GPRS10	Secondary Portrait	0	512	Triggered	21.99	15.99	8	1.2	0.01
13	GSM1900	GPRS10	Primary Landscape	0	512	Triggered	21.99	15.99	8	0.074	0.04
20	GSM1900	GPRS10	Rear Face	0	661	Triggered	21.56	15.56	8	0.966	0.01
21	GSM1900	GPRS10	Rear Face	0	810	Triggered	21.63	15.63	8	1.04	0.01
22	GSM1900	GPRS10	Secondary Portrait	0	661	Triggered	21.56	15.56	8	1.26	0.08
23	GSM1900	GPRS10	Secondary Portrait	0	810	Triggered	21.63	15.63	8	**1.3**	0.07
43	GSM1900	GPRS10	Rear Face	1.4	512	Not Triggered	29.66	23.66	w/o	0.609	0.07
44	GSM1900	GPRS10	Rear Face (Top Edge/Right Rear Corner at 19°)	0	512	Not Triggered	29.66	23.66	w/o	0.392	0.01
45	GSM1900	GPRS10	Secondary Portrait	1.4	512	Not Triggered	29.66	23.66	w/o	0.934	-0.03
46	GSM1900	GPRS10	Secondary Portrait (Top Edge/Right Corner at 19°)	0	512	Not Triggered	29.66	23.66	w/o	0.35	-0.04
47	GSM1900	GPRS10	Secondary Landscape	0	512	Not Triggered	29.66	23.66	w/o	0.241	-0.023
48	GSM1900	GPRS10	Primary Landscape	1.4	512	Not Triggered	29.66	23.66	w/o	0.066	0.08
49	GSM1900	GPRS10	Primary Landscape (Top Edge/Left Corner at 7°)	0	512	Not Triggered	29.66	23.66	w/o	0.116	-0.07
71	GSM1900	GPRS10	Secondary Portrait	1.4	661	Not Triggered	29.42	23.42	w/o	0.976	0.01
72	GSM1900	GPRS10	Secondary Portrait	1.4	810	Not Triggered	29.48	23.48	w/o	0.999	-0.03

Note:

1. SAR is performed on the highest power channel. When the SAR value of highest power channel is less than 0.8 W/kg, SAR testing for optional channel is not required.

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Channel	P-Sensor Status	Output Power	Power Reduction (dB)	SAR-1g (W/kg)	Power Drift (dB)
17	WCDMA II	RMC12.2K	Rear Face	0	9262	Triggered	16.46	8	0.976	0.02
18	WCDMA II	RMC12.2K	Secondary Portrait	0	9262	Triggered	16.46	8	1.26	0.03
35	WCDMA II	RMC12.2K	Primary Landscape	0	9262	Triggered	16.46	8	0.075	0.10
26	WCDMA II	RMC12.2K	Rear Face	0	9400	Triggered	16.43	8	0.992	0.01
27	WCDMA II	RMC12.2K	Rear Face	0	9538	Triggered	16.23	8	1.09	0.01
28	WCDMA II	RMC12.2K	Secondary Portrait	0	9400	Triggered	16.43	8	1.31	0.02
29	WCDMA II	RMC12.2K	Secondary Portrait	0	9538	Triggered	16.23	8	**1.39**	0.02
64	WCDMA II	RMC12.2K	Rear Face	1.4	9262	Not Triggered	24.25	w/o	0.49	0.17
65	WCDMA II	RMC12.2K	Rear Face (Top Edge/Right Rear Corner at 19°)	0	9262	Not Triggered	24.25	w/o	0.436	0.01
66	WCDMA II	RMC12.2K	Secondary Portrait	1.4	9262	Not Triggered	24.25	w/o	1.26	-0.01
67	WCDMA II	RMC12.2K	Secondary Portrait (Top Edge/Right Corner at 19°)	0	9262	Not Triggered	24.25	w/o	0.369	-0.03
68	WCDMA II	RMC12.2K	Secondary Landscape	0	9262	Not Triggered	24.25	w/o	0.242	-0.074
69	WCDMA II	RMC12.2K	Primary Landscape	1.4	9262	Not Triggered	24.25	w/o	0.074	-0.09
70	WCDMA II	RMC12.2K	Primary Landscape (Top Edge/Left Corner at 7°)	0	9262	Not Triggered	24.25	w/o	0.133	-0.09
75	WCDMA II	RMC12.2K	Secondary Portrait	1.4	9400	Not Triggered	24.17	w/o	1.32	-0.01
76	WCDMA II	RMC12.2K	Secondary Portrait	1.4	9538	Not Triggered	23.92	w/o	1.37	-0.03
14	WCDMA IV	RMC12.2K	Rear Face	0	1312	Triggered	16.31	8	0.97	0.09
15	WCDMA IV	RMC12.2K	Secondary Portrait	0	1312	Triggered	16.31	8	0.925	0.07
30	WCDMA IV	RMC12.2K	Primary Landscape	0	1312	Triggered	16.31	8	0.283	-0.02
33	WCDMA IV	RMC12.2K	Rear Face	0	1413	Triggered	16.28	8	0.99	0.01
34	WCDMA IV	RMC12.2K	Rear Face	0	1513	Triggered	16.23	8	0.991	0.01
31	WCDMA IV	RMC12.2K	Secondary Portrait	0	1413	Triggered	16.28	8	0.961	-0.04
32	WCDMA IV	RMC12.2K	Secondary Portrait	0	1513	Triggered	16.23	8	**1.12**	0.07
57	WCDMA IV	RMC12.2K	Rear Face	1.4	1312	Not Triggered	24.21	w/o	0.672	0.01
58	WCDMA IV	RMC12.2K	Rear Face (Top Edge/Right Rear Corner at 19°)	0	1312	Not Triggered	24.21	w/o	0.195	0.13
59	WCDMA IV	RMC12.2K	Secondary Portrait	1.4	1312	Not Triggered	24.21	w/o	0.507	0.02
60	WCDMA IV	RMC12.2K	Secondary Portrait (Top Edge/Right Corner at 19°)	0	1312	Not Triggered	24.21	w/o	0.289	0.08
61	WCDMA IV	RMC12.2K	Secondary Landscape	0	1312	Not Triggered	24.21	w/o	0.15	-0.135
62	WCDMA IV	RMC12.2K	Primary Landscape	1.4	1312	Not Triggered	24.21	w/o	0.310	0.05
63	WCDMA IV	RMC12.2K	Primary Landscape (Top Edge/Left Corner at 7°)	0	1312	Not Triggered	24.21	w/o	0.812	0.02
73	WCDMA IV	RMC12.2K	Primary Landscape (Top Edge/Left Corner at 7°)	0	1413	Not Triggered	23.95	w/o	0.851	0.02
74	WCDMA IV	RMC12.2K	Primary Landscape (Top Edge/Left Corner at 7°)	0	1513	Not Triggered	23.87	w/o	0.755	0.02

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Channel	P-Sensor Status	Output Power	Power Reduction (dB)	SAR-1g (W/kg)	Power Drift (dB)
6	WCDMA V	RMC12.2K	Rear Face	0	4132	Triggered	19.59	4	0.995	-0.12
7	WCDMA V	RMC12.2K	Secondary Portrait	0	4132	Triggered	19.59	4	0.698	-0.15
8	WCDMA V	RMC12.2K	Primary Landscape	0	4132	Triggered	19.59	4	0.221	0.02
9	WCDMA V	RMC12.2K	Rear Face	0	4182	Triggered	19.49	4	**1.12**	-0.14
10	WCDMA V	RMC12.2K	Rear Face	0	4233	Triggered	19.55	4	1.06	-0.18
50	WCDMA V	RMC12.2K	Rear Face	1.4	4132	Not Triggered	23.49	w/o	0.368	0.04
51	WCDMA V	RMC12.2K	Rear Face (Top Edge/Right Rear Corner at 19°)	0	4132	Not Triggered	23.49	w/o	0.370	-0.01
52	WCDMA V	RMC12.2K	Secondary Portrait	1.4	4132	Not Triggered	23.49	w/o	0.257	-0.09
53	WCDMA V	RMC12.2K	Secondary Portrait (Top Edge/Right Corner at 19°)	0	4132	Not Triggered	23.49	w/o	0.224	-0.09
54	WCDMA V	RMC12.2K	Secondary Landscape	0	4132	Not Triggered	23.49	w/o	0.25	-0.09
55	WCDMA V	RMC12.2K	Primary Landscape	1.4	4132	Not Triggered	23.49	w/o	0.067	-0.17
56	WCDMA V	RMC12.2K	Primary Landscape (Top Edge/Left Corner at 7°)	0	4132	Not Triggered	23.49	w/o	0.085	-0.01

Note:

1. According to KDB 941225, the SAR testing for HSPA is not required because the maximum power of HSPA is less than 1/4 dB higher than RMC 12.2K.

Test Engineer：Morrison Huang, and Isaac Liao

4.6.2 Simultaneous Multi-band Transmission Evaluation

Since the maximum power of WLAN/Bluetooth is less than 60/f, the simultaneous transmission SAR for WWAN and WLAN/BT was not required. The WLAN and Bluetooth cannot transmit simultaneously, so there is no co-location test requirement for WLAN and Bluetooth.

5. Calibration of Test Equipment

Equipment	Manufacturer	Model	SN	Cal. Date	Cal. Interval
System Validation Kit	SPEAG	D835V2	4d021	Apr. 20, 2012	Annual
System Validation Kit	SPEAG	D1750V2	1023	Jun. 20, 2012	Annual
System Validation Kit	SPEAG	D1900V2	5d036	Jan. 26, 2012	Annual
System Validation Kit	SPEAG	D2450V2	737	Jan. 24, 2012	Annual
Dosimetric E-Field Probe	SPEAG	EX3DV4	3590	Feb. 23, 2012	Annual
Dosimetric E-Field Probe	SPEAG	EX3DV4	3650	Oct. 26, 2011	Annual
Dosimetric E-Field Probe	SPEAG	EX3DV4	3864	Jul. 19, 2012	Annual
Data Acquisition Electronics	SPEAG	DAE3	579	Apr. 27, 2012	Annual
Data Acquisition Electronics	SPEAG	DAE4	910	Dec. 07, 2011	Annual
Data Acquisition Electronics	SPEAG	DAE4	1277	Jul. 19, 2012	Annual
ELI Phantom	SPEAG	QDOVA001B	TP-1043	N/A	N/A
Radio Communication Tester	Agilent	E5515C	MY50266628	Sep. 26, 2011	Biennial
ENA Series Network Analyzer	Agilent	E5071C	MY46214281	May 14, 2012	Annual
MXG Analog Signal Generator	Agilent	N5181A	MY50143868	May 06, 2012	Annual
Power Meter	Anritsu	ML2495A	1218009	May 07, 2012	Annual
Power Sensor	Anritsu	MA2411B	1207252	May 07, 2012	Annual
EXA Spectrum Analyzer	Agilent	N9010A	MY52100136	Apr. 23, 2012	Annual
Dielectric Probe Kit	Agilent	85070D	E2-020018	May 14, 2012	Annual
Thermometer	YFE	YF-160A	110600361	Feb. 21, 2012	Annual
Directional Coupler	Woken	0110A05602O-10	11122702	Apr. 19, 2012	Annual
Power Amplifier	AR	5S1G4	0339656	Apr. 23, 2012	Annual
Power Amplifier	Mini-Circuit	ZVE-8G	001000422	Apr. 23, 2012	Annual
Attenuator	Woken	00800A1G01L-03	N/A	Apr. 19, 2012	Annual

6. Measurement Uncertainty

Error Description	Uncertainty Value (±%)	Probability Distribution	Divisor	Ci (1g)	Standard Uncertainty (1g)	Vi
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	0.6	Normal	1	1	± 0.6 %	∞
Response Time	0.0	Rectangular	√3	1	± 0.0 %	∞
Integration Time	1.7	Rectangular	√3	1	± 1.0 %	∞
RF Ambient Noise	3.0	Rectangular	√3	1	± 1.7 %	∞
RF Ambient Reflections	3.0	Rectangular	√3	1	± 1.7 %	∞
Probe Positioner	0.5	Rectangular	√3	1	± 0.3 %	∞
Probe Positioning	2.9	Rectangular	√3	1	± 1.7 %	∞
Max. SAR Eval.	2.3	Rectangular	√3	1	± 1.3 %	∞
Test Sample Related						
Device Positioning	3.9	Normal	1	1	± 3.9 %	31
Device Holder	2.7	Normal	1	1	± 2.7 %	19
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.)	5.0	Normal	1	0.64	± 3.2 %	29
Liquid Permittivity (Target)	5.0	Rectangular	√3	0.6	± 1.7 %	∞
Liquid Permittivity (Meas.)	5.0	Normal	1	0.6	± 3.0 %	29
Combined Standard Uncertainty					± 11.7 %	
Expanded Uncertainty (K=2)					**± 23.4 %**	

Uncertainty budget for frequency range 300 MHz to 3 GHz

7. Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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Web Site: www.bureauveritas-adt.com

The road map of all our labs can be found in our web site also.

---END---

Appendix A. SAR Plots of System Verification

The plots for system verification are shown as follows.

System Check_B835_120829

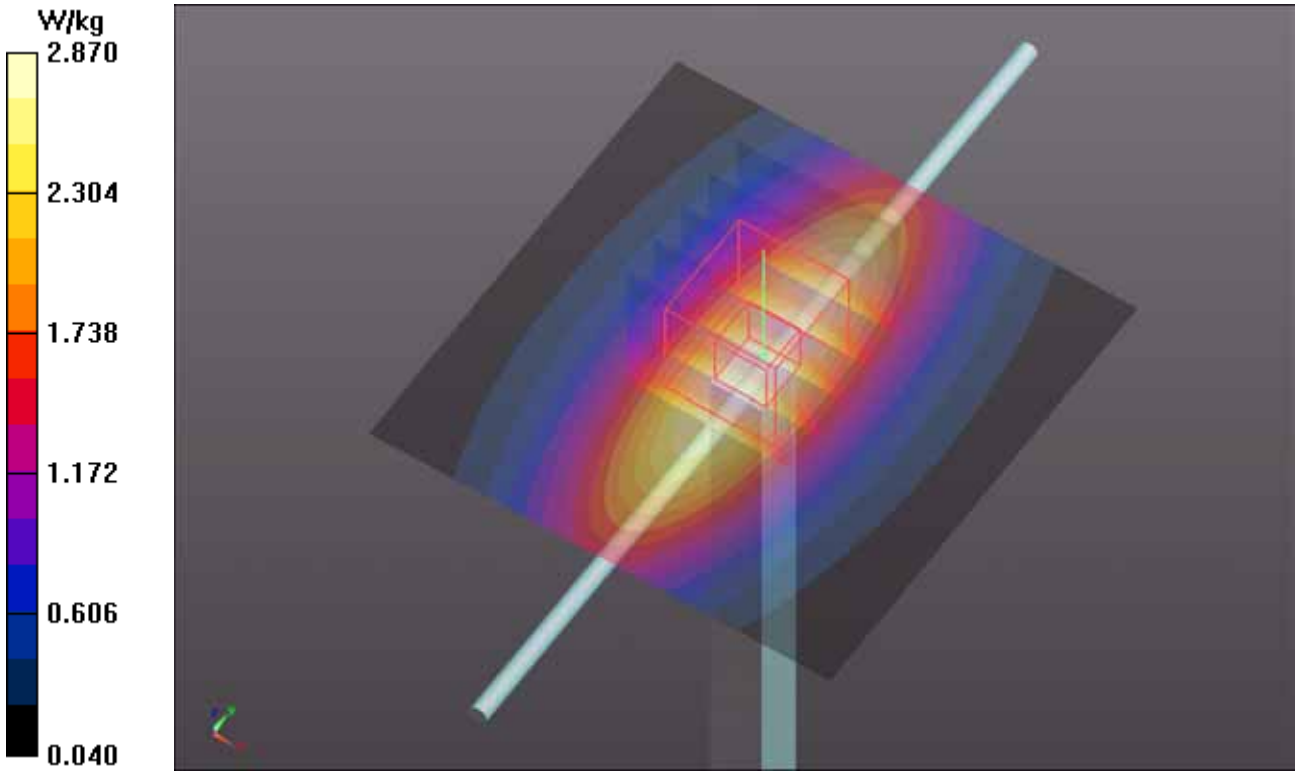
DUT: Dipole 835 MHz; Type: D835V2; SN: 4d021

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium: B835_0829 Medium parameters used: f = 835 MHz; σ = 0.973 mho/m; ε_r = 55.201; ρ = 1000 kg/m^3
Ambient Temperature：21.8 ℃; Liquid Temperature：20.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3590; ConvF(10.47, 10.47, 10.47); Calibrated: 2012/02/23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2012/04/27
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Pin=250mW/Area Scan (61x61x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 2.87 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 52.384 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 3.330 mW/g
SAR(1 g) = 2.24 mW/g; SAR(10 g) = 1.48 mW/g
Maximum value of SAR (measured) = 2.83 W/kg



System Check_B835_120830

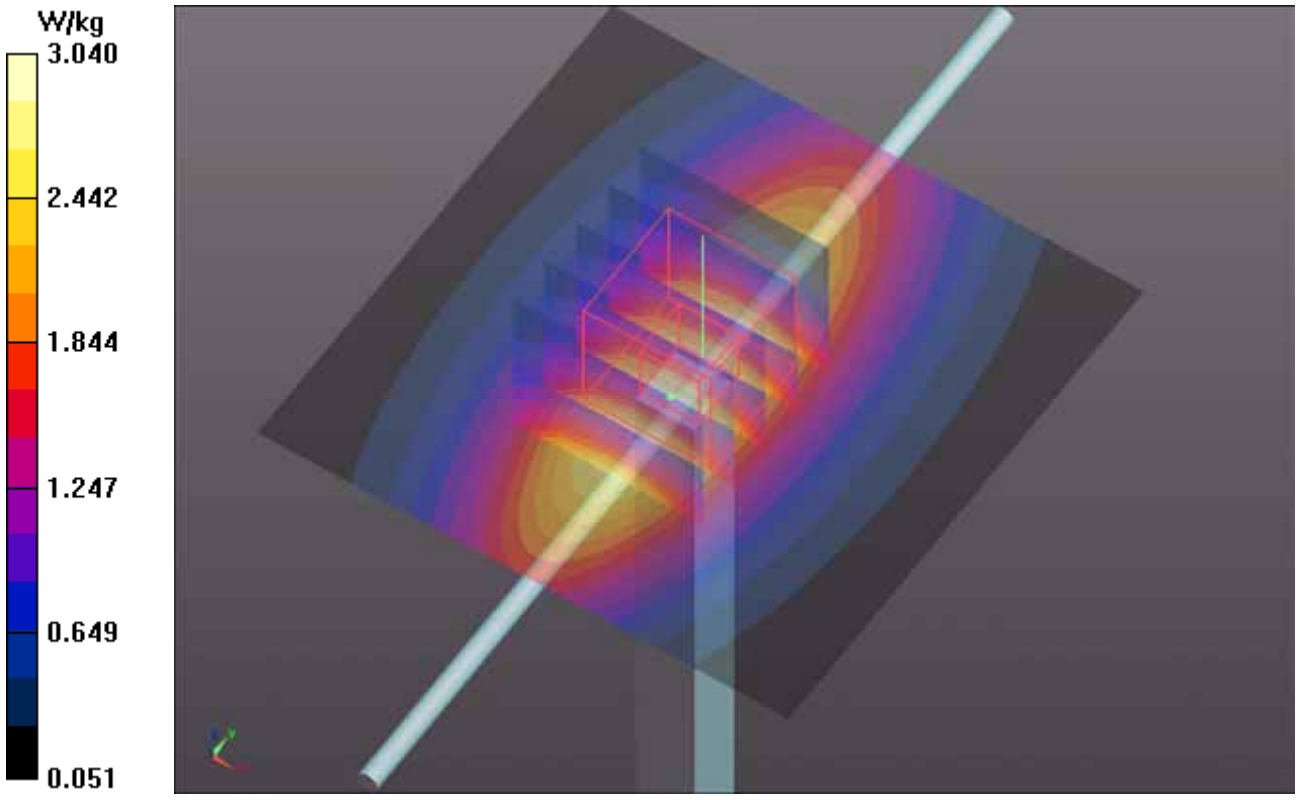
DUT: Dipole 835 MHz; Type: D835V2; SN: 4d021

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium: B835_0830 Medium parameters used: f = 835 MHz; σ = 0.979 mho/m; ε_r = 55.898; ρ = 1000 kg/m^3
Ambient Temperature：21.6 ℃; Liquid Temperature：20.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(9.94, 9.94, 9.94); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Pin=250mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 3.04 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 53.580 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 3.532 mW/g
SAR(1 g) = 2.38 mW/g; SAR(10 g) = 1.57 mW/g
Maximum value of SAR (measured) = 3.00 W/kg



System Check_B835_120904

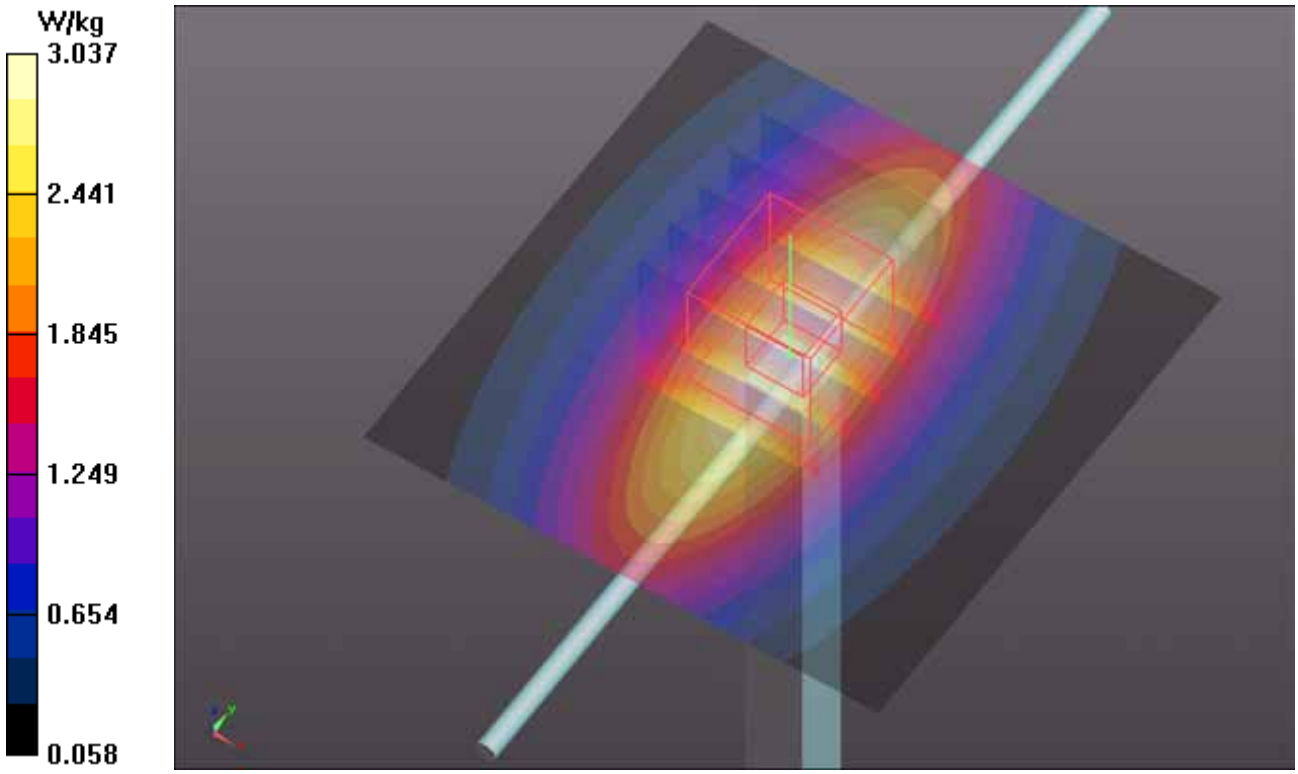
DUT: Dipole 835 MHz; Type: D835V2; SN: 4d021

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium: B835_0904 Medium parameters used: f = 835 MHz; σ = 0.978 mho/m; ε_r = 55.648; ρ = 1000 kg/m^3
Ambient Temperature：21.5 ℃; Liquid Temperature：20.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(9.12, 9.12, 9.12); Calibrated: 2011/10/26;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2011/12/07
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Pin=250mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 3.04 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 53.637 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 3.547 mW/g
SAR(1 g) = 2.4 mW/g; SAR(10 g) = 1.58 mW/g
Maximum value of SAR (measured) = 3.04 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2012/09/20

System Check_B835_120920

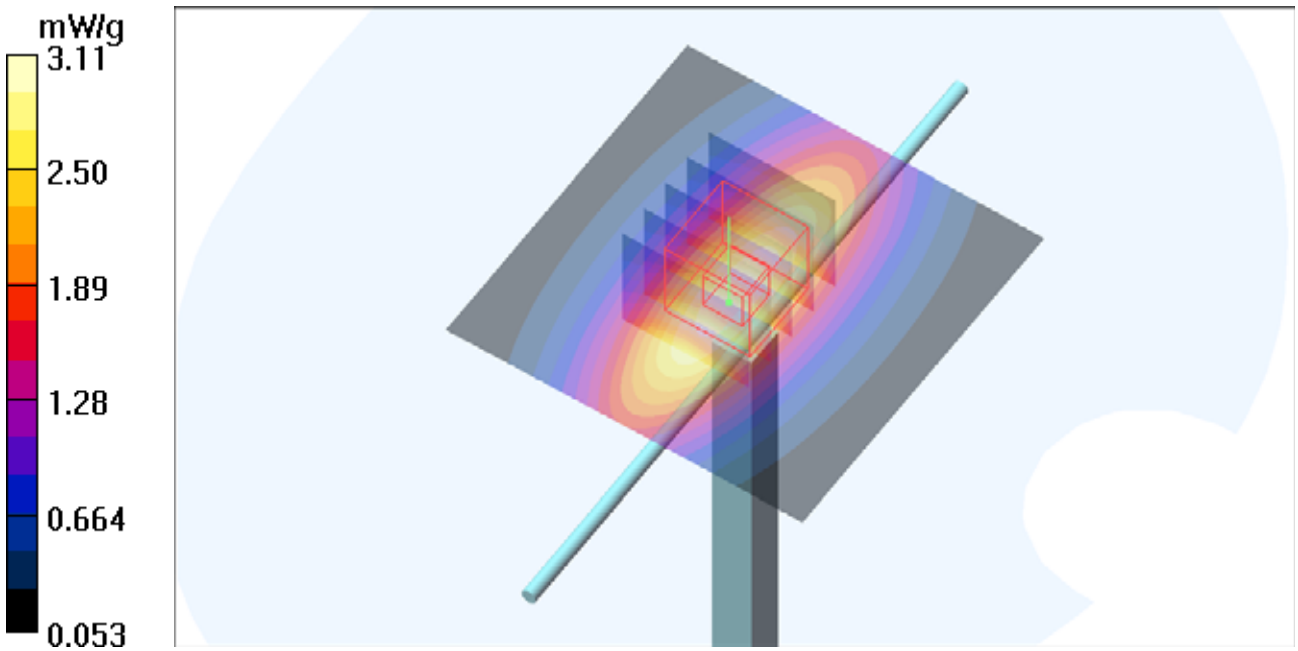
DUT: Dipole 835 MHz; Type: D835V2; SN: 4d021

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium: B835_0920 Medium parameters used: f = 835 MHz; σ = 0.991 mho/m; ε_r = 55.4; ρ = 1000 kg/m^3
Ambient Temperature：22.3 ℃; Liquid Temperature：21.4 ℃

DASY4 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(9.94, 9.94, 9.94); Calibrated: 2012/07/19
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: SAM Phantom_Left; Type: SAM V4.0; Serial: TP 1652
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Pin=250mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 3.11 mW/g

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 53.9 V/m; Power Drift = -0.016 dB
Peak SAR (extrapolated) = 3.63 W/kg
SAR(1 g) = 2.44 mW/g; SAR(10 g) = 1.61 mW/g
Maximum value of SAR (measured) = 3.08 mW/g



System Check_B1750_120830

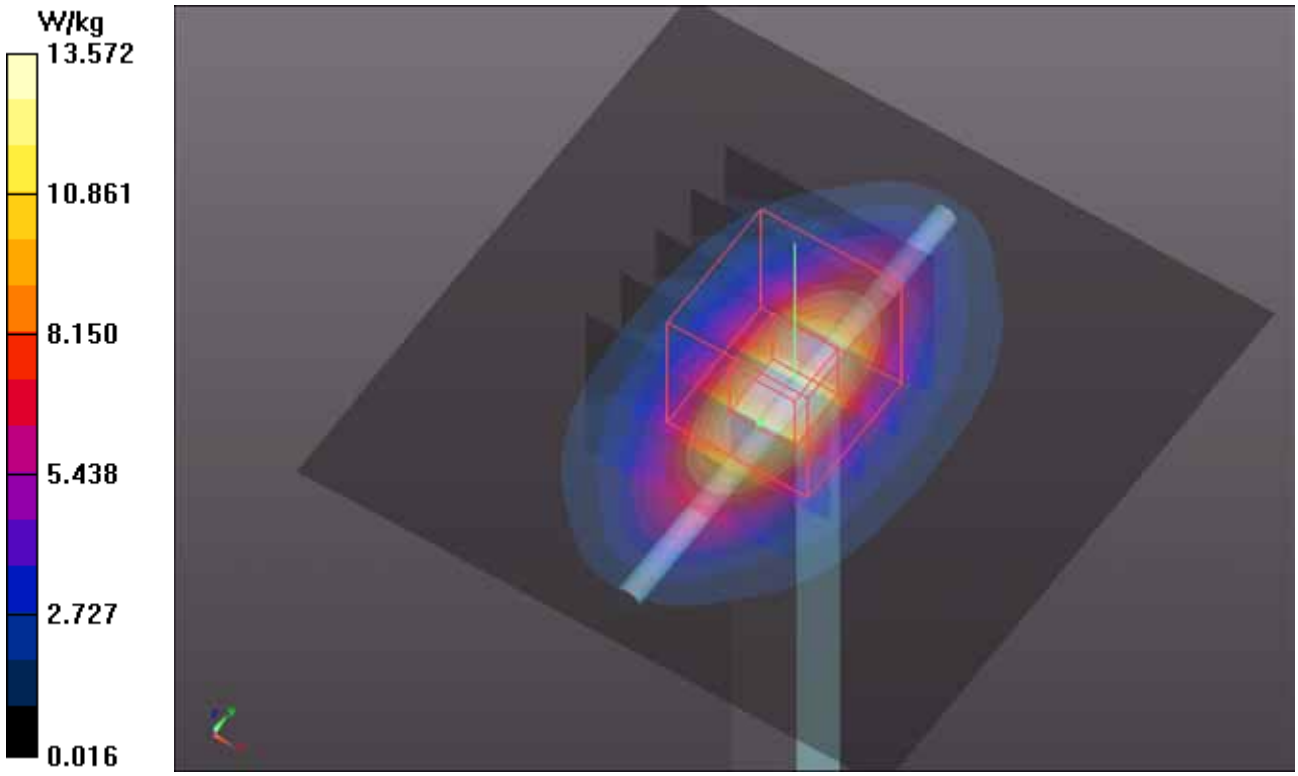
DUT: Dipole 1750 MHz; Type: D1750V2; SN: 1023

Communication System: CW; Frequency: 1750 MHz;Duty Cycle: 1:1
Medium: B1750_0830 Medium parameters used: f = 1750 MHz; σ = 1.466 mho/m; ε_r = 53.656; ρ = 1000 kg/m^3
Ambient Temperature：21.7 ℃; Liquid Temperature：20.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(8.45, 8.45, 8.45); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Pin=250mW/Area Scan (61x61x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 13.6 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 97.050 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 16.272 mW/g
SAR(1 g) = 9.38 mW/g; SAR(10 g) = 5.05 mW/g
Maximum value of SAR (measured) = 13.1 W/kg



System Check_B1750_120831

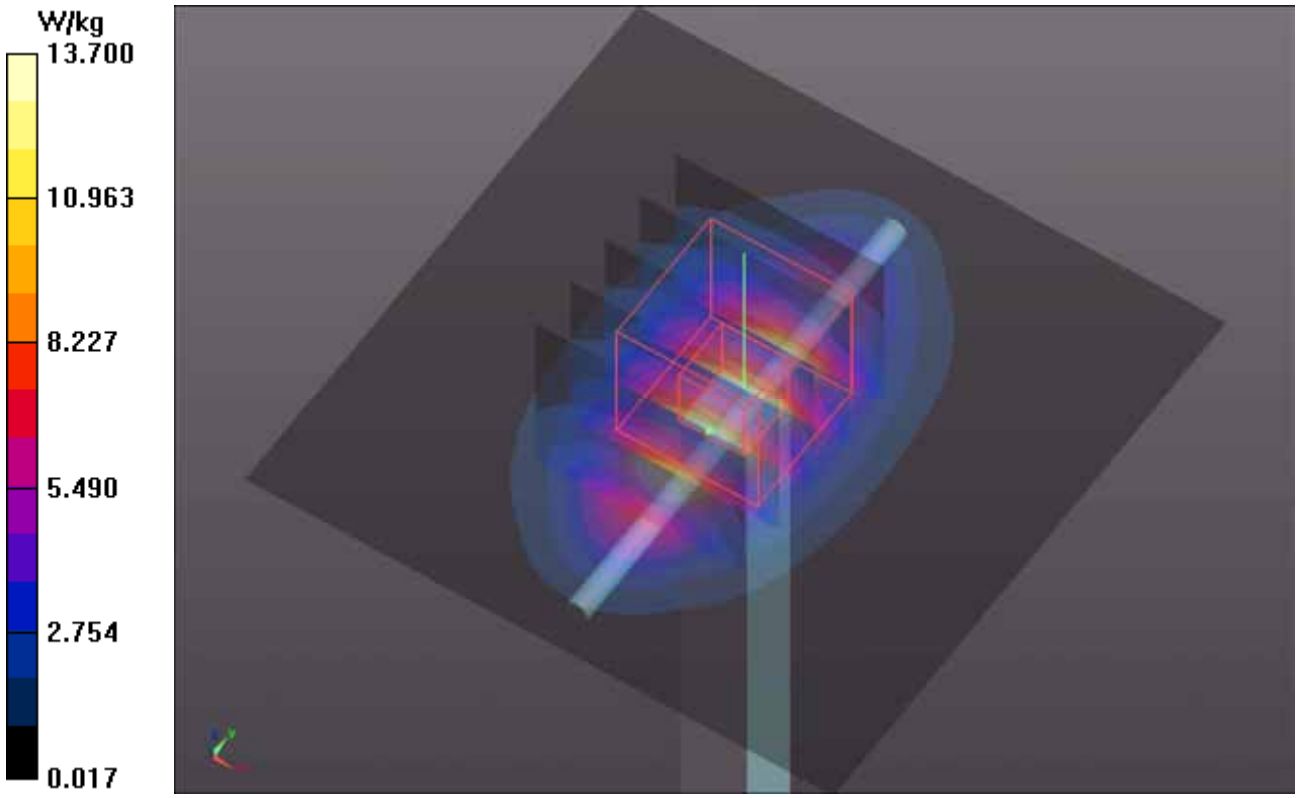
DUT: Dipole 1750 MHz; Type: D1750V2; SN: 1023

Communication System: CW; Frequency: 1750 MHz;Duty Cycle: 1:1
Medium: B1750_0831 Medium parameters used: f = 1750 MHz; σ = 1.468 mho/m; ε_r = 53.825; ρ = 1000 kg/m^3
Ambient Temperature：21.5 ℃; Liquid Temperature：20.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(8.45, 8.45, 8.45); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Pin=250mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 13.7 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 97.338 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 16.446 mW/g
SAR(1 g) = 9.48 mW/g; SAR(10 g) = 5.1 mW/g
Maximum value of SAR (measured) = 13.3 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2012/09/20

System Check_B1750_120920

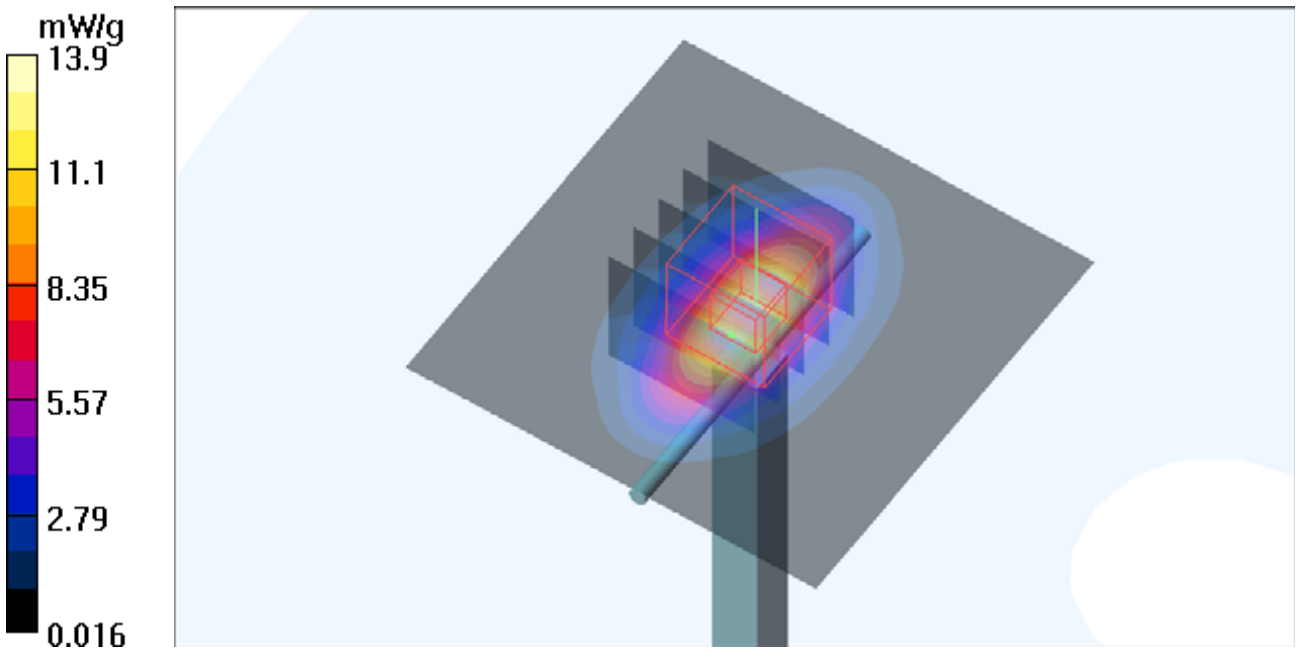
DUT: Dipole 1750 MHz; Type: D1750V2; SN: 1023

Communication System: CW; Frequency: 1750 MHz;Duty Cycle: 1:1
Medium: B1750_0920 Medium parameters used: f = 1750 MHz; σ = 1.52 mho/m; ε_r = 54.6; ρ = 1000 kg/m^3
Ambient Temperature：22.5 ℃; Liquid Temperature：21.3 ℃

DASY4 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(8.45, 8.45, 8.45); Calibrated: 2012/07/19
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: SAM Phantom_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Pin=250mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 13.9 mW/g

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 96.7 V/m; Power Drift = -0.008 dB
Peak SAR (extrapolated) = 16.8 W/kg
SAR(1 g) = 9.64 mW/g; SAR(10 g) = 5.19 mW/g
Maximum value of SAR (measured) = 13.5 mW/g



System Check_B1900_120830

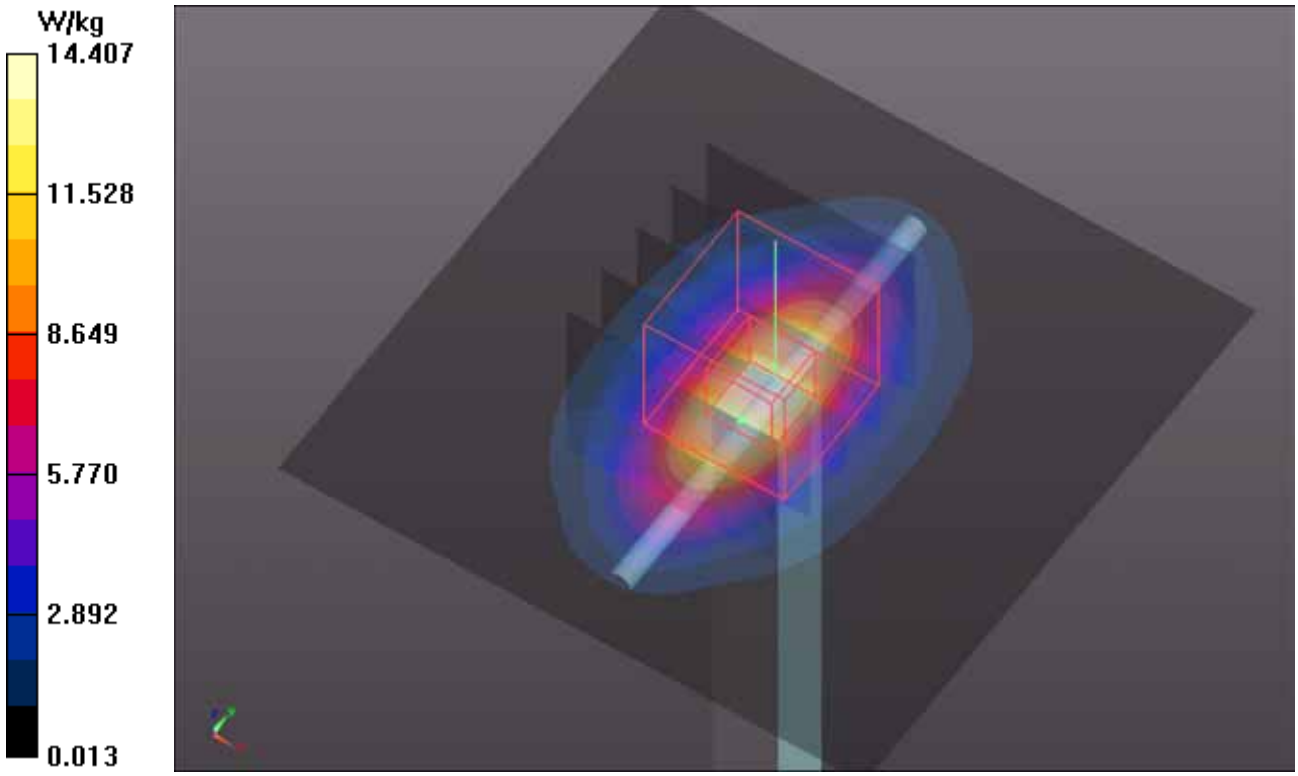
DUT: Dipole 1900 MHz; Type: D1900V2; SN: 5d036

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: B1900_0830 Medium parameters used: f = 1900 MHz; σ = 1.545 mho/m; ε_r = 52.799; ρ = 1000 kg/m^3
Ambient Temperature：21.9 ℃; Liquid Temperature：20.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(7.88, 7.88, 7.88); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Pin=250mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 14.4 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 95.624 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 17.047 mW/g
SAR(1 g) = 9.45 mW/g; SAR(10 g) = 4.91 mW/g
Maximum value of SAR (measured) = 13.3 W/kg



System Check_B1900_120831

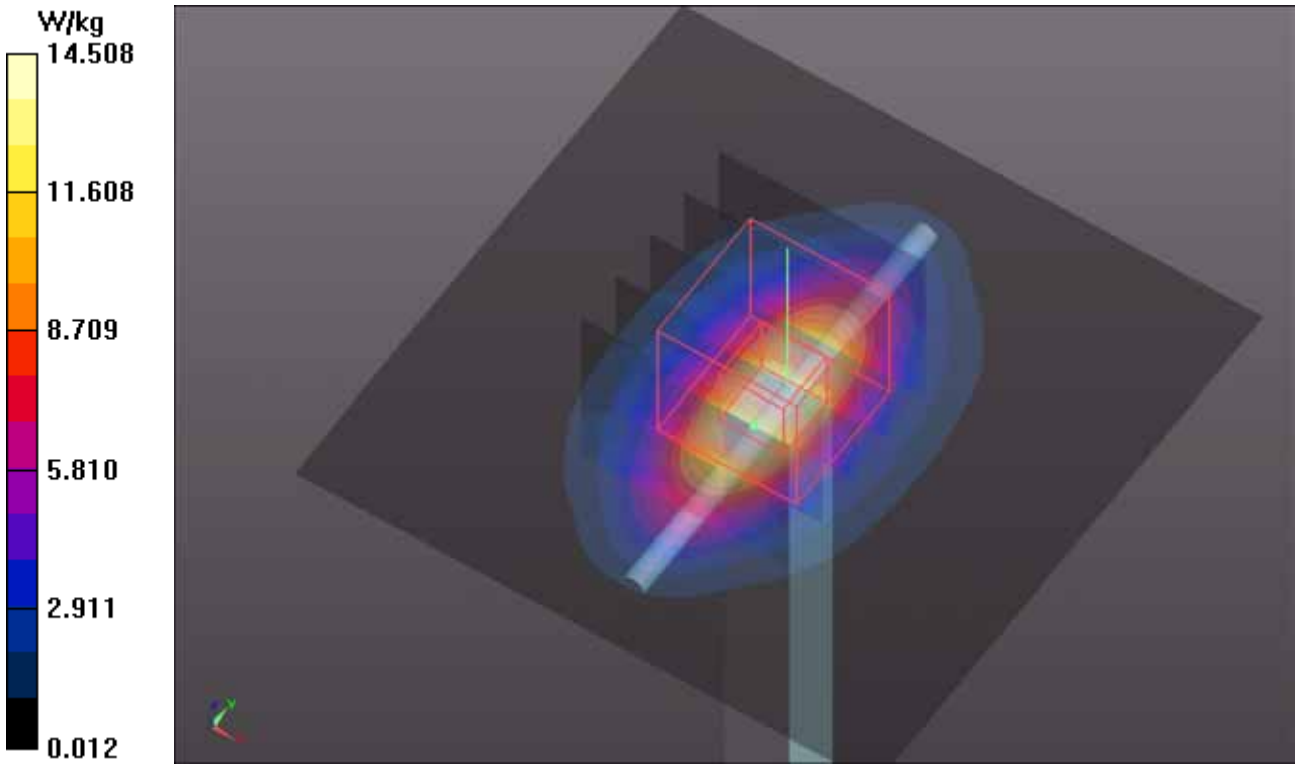
DUT: Dipole 1900 MHz; Type: D1900V2; SN: 5d036

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: B1900_0831 Medium parameters used: f = 1900 MHz; σ = 1.543 mho/m; ε_r = 52.865; ρ = 1000 kg/m^3
Ambient Temperature：21.8 ℃; Liquid Temperature：20.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(7.88, 7.88, 7.88); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Pin=250mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 14.5 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 96.460 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 17.471 mW/g
SAR(1 g) = 9.67 mW/g; SAR(10 g) = 5.01 mW/g
Maximum value of SAR (measured) = 13.6 W/kg



System Check_B1900_120920

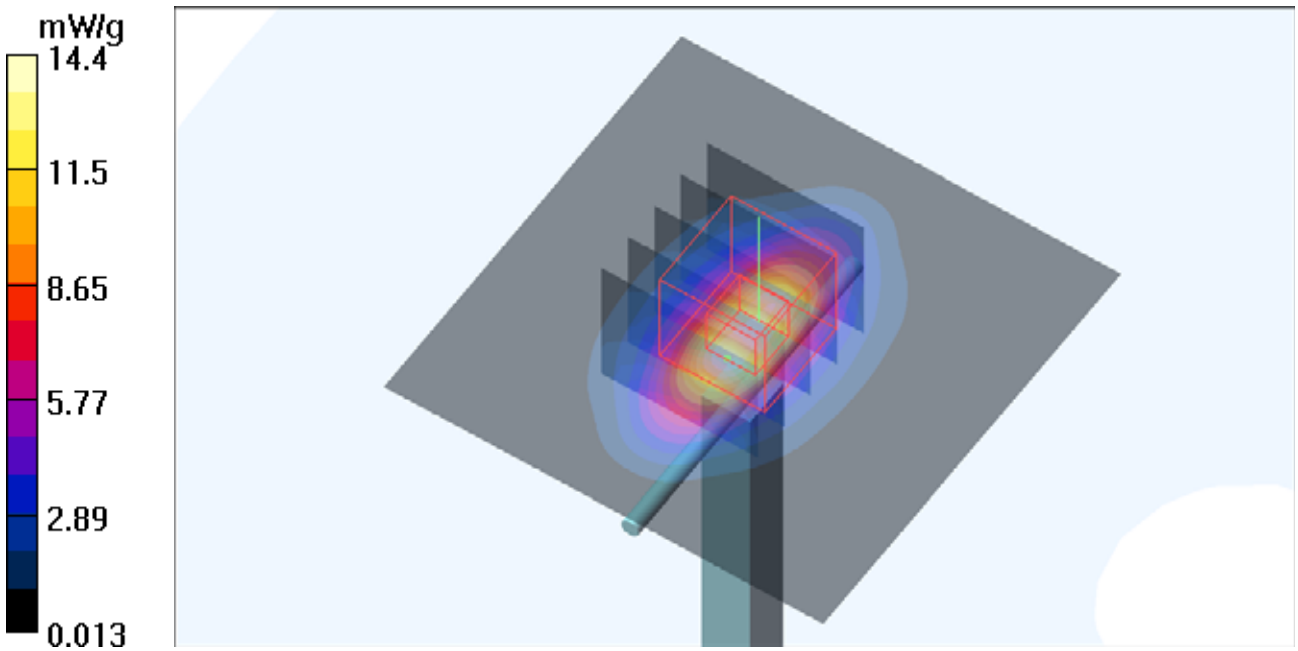
DUT: Dipole 1900 MHz; Type: D1900V2; SN: 5d036

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: B1900_0920 Medium parameters used: f = 1900 MHz; σ = 1.55 mho/m; ε_r = 53; ρ = 1000 kg/m^3
Ambient Temperature：22.5 ℃; Liquid Temperature：21.3 ℃

DASY4 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(7.88, 7.88, 7.88); Calibrated: 2012/07/19
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: SAM Phantom_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Pin=250mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 14.4 mW/g

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 96.0 V/m; Power Drift = -0.020 dB
Peak SAR (extrapolated) = 17.2 W/kg
SAR(1 g) = 9.55 mW/g; SAR(10 g) = 4.96 mW/g
Maximum value of SAR (measured) = 13.5 mW/g



Appendix B. SAR Plots of SAR Measurement

The plots for SAR measurement are shown as follows.

P01 GSM850_GPRS10_Rear Face_0cm_Ch251_Sensor On

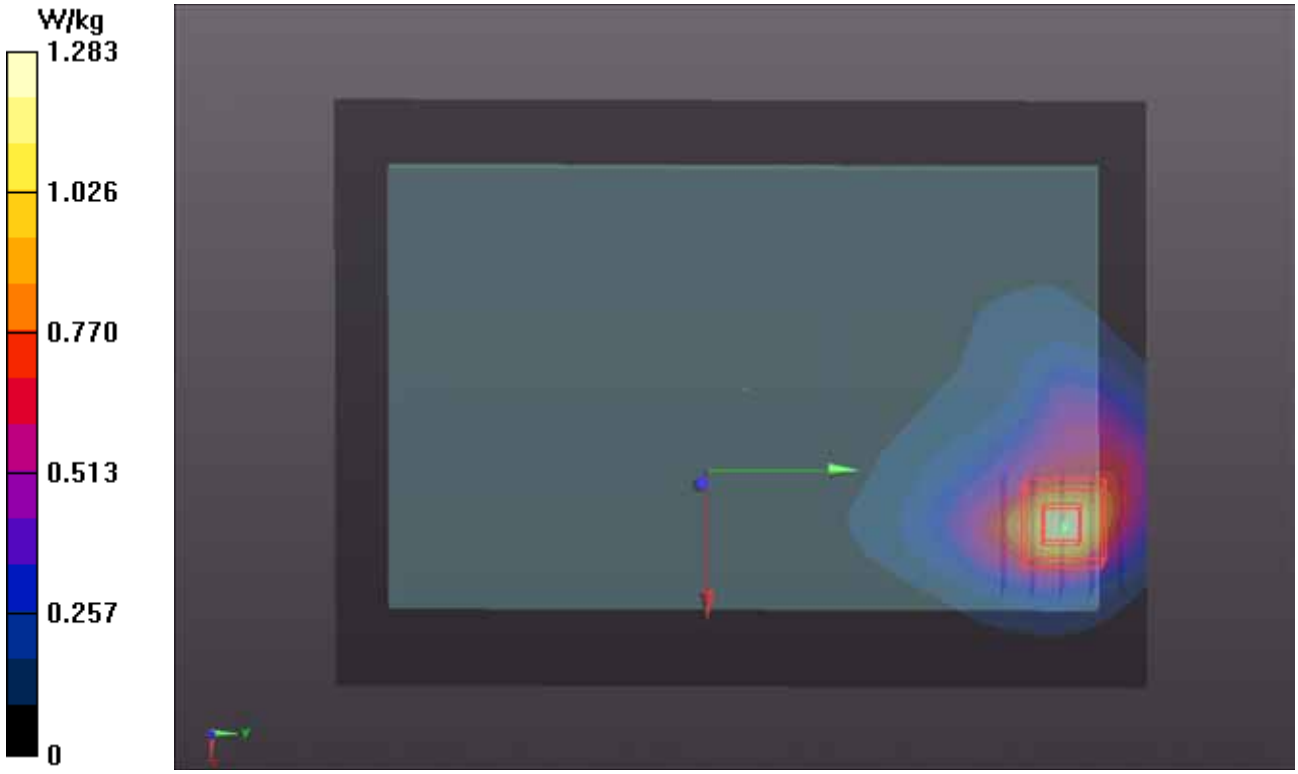
DUT: 120829C03

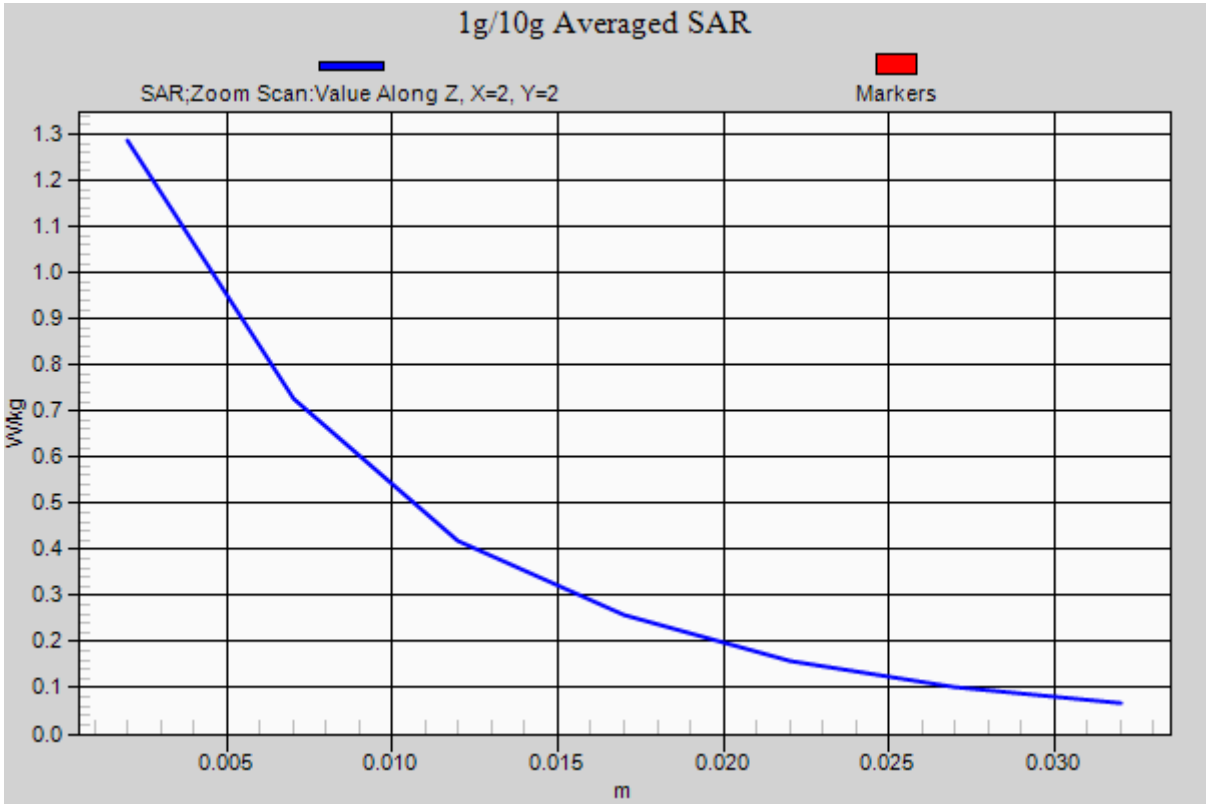
Communication System: GPRS10; Frequency: 848.8 MHz;Duty Cycle: 1:4.00037
Medium: B835_0829 Medium parameters used: f = 849 MHz; σ = 0.986 mho/m; ε_r = 55.072; ρ = 1000 kg/m^3
Ambient Temperature：21.8 ℃; Liquid Temperature：20.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3590; ConvF(10.47, 10.47, 10.47); Calibrated: 2012/02/23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2012/04/27
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch251/Area Scan (81x111x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 1.28 W/kg

Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.718 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 1.657 mW/g
SAR(1 g) = 0.916 mW/g; SAR(10 g) = 0.511 mW/g
Maximum value of SAR (measured) = 1.29 W/kg




1g/10g Averaged SAR
SAR;Zoom Scan:Value Along Z, X=2, Y=2
Markers
W/kg
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
m

P02 GSM850_GPRS10_Secondary Portrait_0cm_Ch251_Sensor On

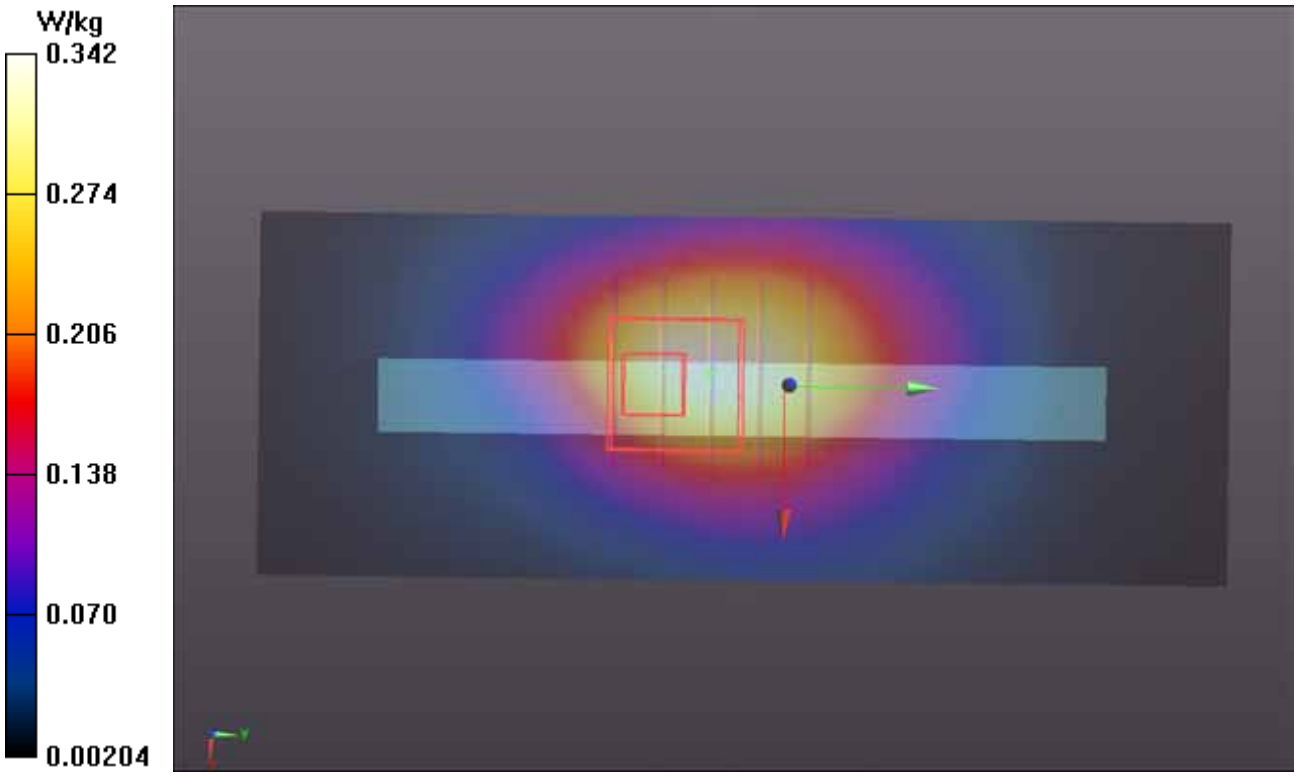
DUT: 120829C03

Communication System: GPRS10; Frequency: 848.8 MHz;Duty Cycle: 1:4.00037
Medium: B835_0829 Medium parameters used: f = 849 MHz; σ = 0.986 mho/m; ε_r = 55.072; ρ = 1000 kg/m^3
Ambient Temperature：21.8 ℃; Liquid Temperature：20.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3590; ConvF(10.47, 10.47, 10.47); Calibrated: 2012/02/23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2012/04/27
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch251/Area Scan (31x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.342 W/kg

Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.270 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.873 mW/g
SAR(1 g) = 0.413 mW/g; SAR(10 g) = 0.219 mW/g
Maximum value of SAR (measured) = 0.631 W/kg



P03 GSM850_GPRS10_Primary Landscape_0cm_Ch251_Sensor On

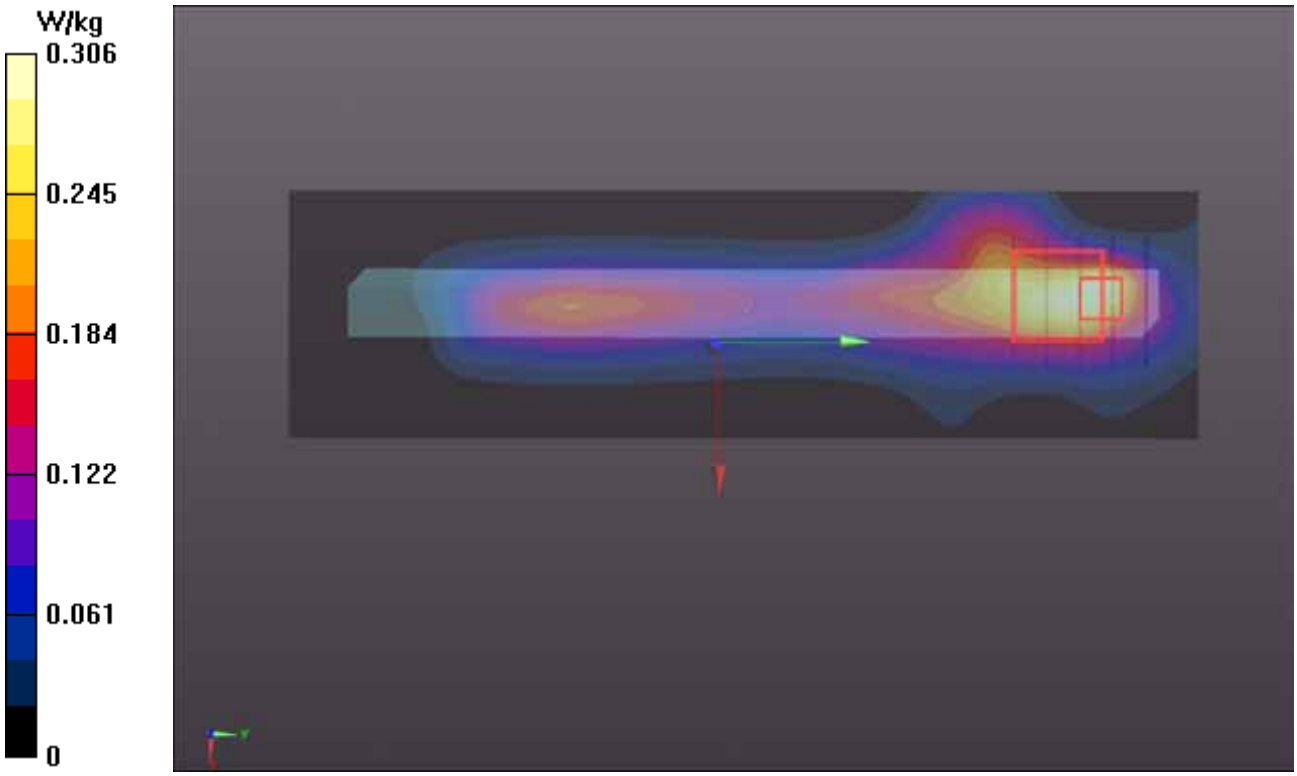
DUT: 120829C03

Communication System: GPRS10; Frequency: 848.8 MHz;Duty Cycle: 1:4.00037
Medium: B835_0829 Medium parameters used: f = 849 MHz; σ = 0.986 mho/m; ε_r = 55.072; ρ = 1000 kg/m^3
Ambient Temperature：21.8 ℃; Liquid Temperature：20.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3590; ConvF(10.47, 10.47, 10.47); Calibrated: 2012/02/23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2012/04/27
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch251/Area Scan (31x111x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.306 W/kg

Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.727 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.524 mW/g
SAR(1 g) = 0.216 mW/g; SAR(10 g) = 0.124 mW/g
Maximum value of SAR (measured) = 0.383 W/kg



P04 GSM850_GPRS10_Rear Face_0cm_Ch128_Sensor On

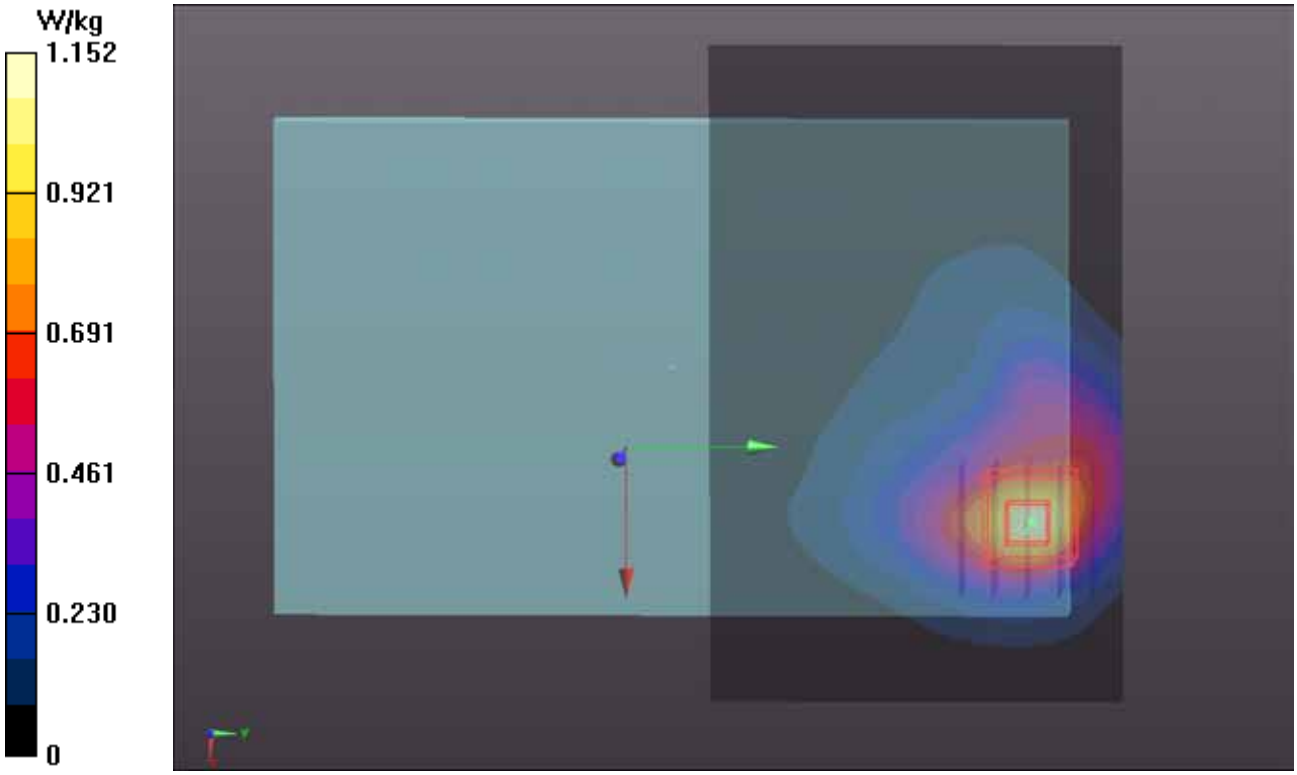
DUT: 120829C03

Communication System: GPRS10; Frequency: 824.2 MHz;Duty Cycle: 1:4.00037
Medium: B835_0829 Medium parameters used: f = 824.2 MHz; σ = 0.962 mho/m; ε_r = 55.305; ρ = 1000 kg/m^3
Ambient Temperature：21.8 ℃; Liquid Temperature：20.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3590; ConvF(10.47, 10.47, 10.47); Calibrated: 2012/02/23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2012/04/27
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch128/Area Scan (81x51x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 1.15 W/kg

Ch128/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.837 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 1.450 mW/g
SAR(1 g) = 0.808 mW/g; SAR(10 g) = 0.458 mW/g
Maximum value of SAR (measured) = 1.12 W/kg



P05 GSM850_GPRS10_Rear Face_0cm_Ch189_Sensor On

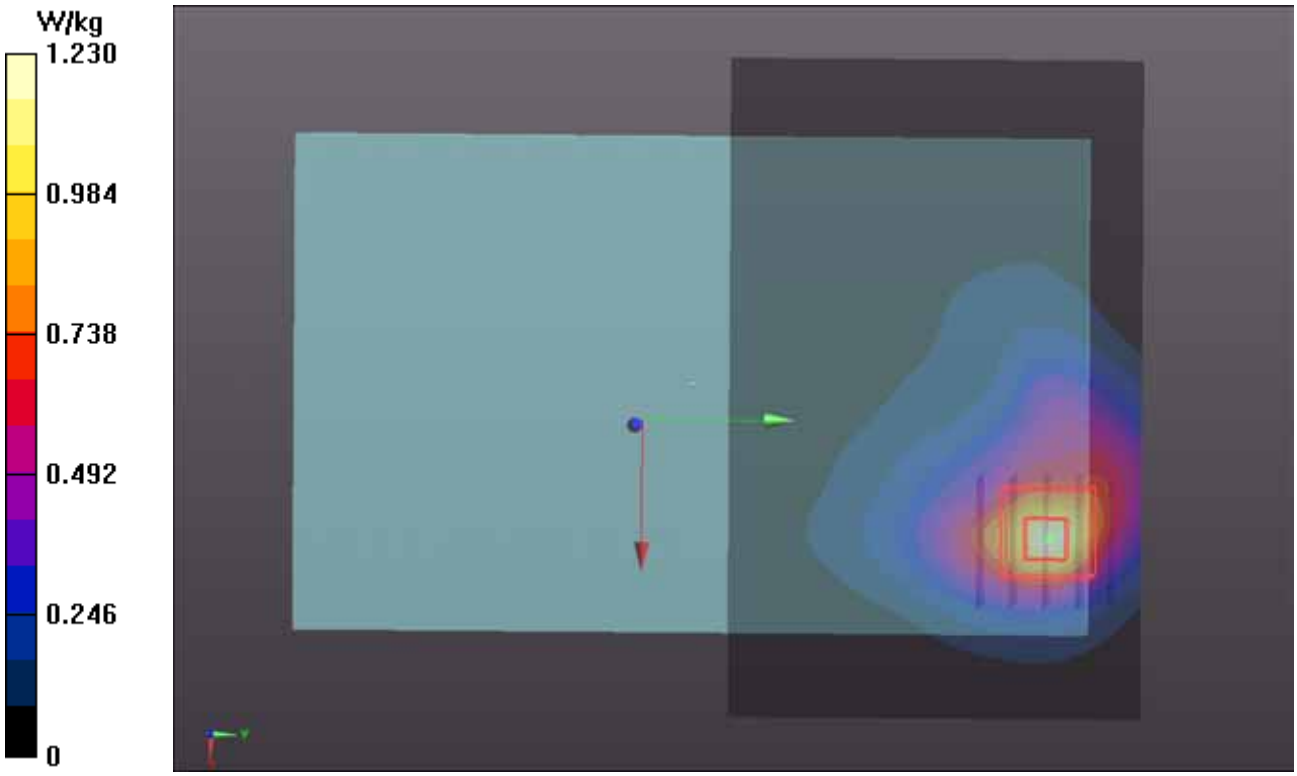
DUT: 120829C03

Communication System: GPRS10; Frequency: 836.4 MHz;Duty Cycle: 1:4.00037
Medium: B835_0829 Medium parameters used: f = 836.4 MHz; σ = 0.974 mho/m; ε_r = 55.189; ρ = 1000 kg/m^3
Ambient Temperature：21.8 ℃; Liquid Temperature：20.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3590; ConvF(10.47, 10.47, 10.47); Calibrated: 2012/02/23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2012/04/27
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch189/Area Scan (81x51x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 1.23 W/kg

Ch189/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.696 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.561 mW/g
SAR(1 g) = 0.867 mW/g; SAR(10 g) = 0.487 mW/g
Maximum value of SAR (measured) = 1.21 W/kg



P11 GSM1900_GPRS10_Rear Face_0cm_Ch512_Sensor On

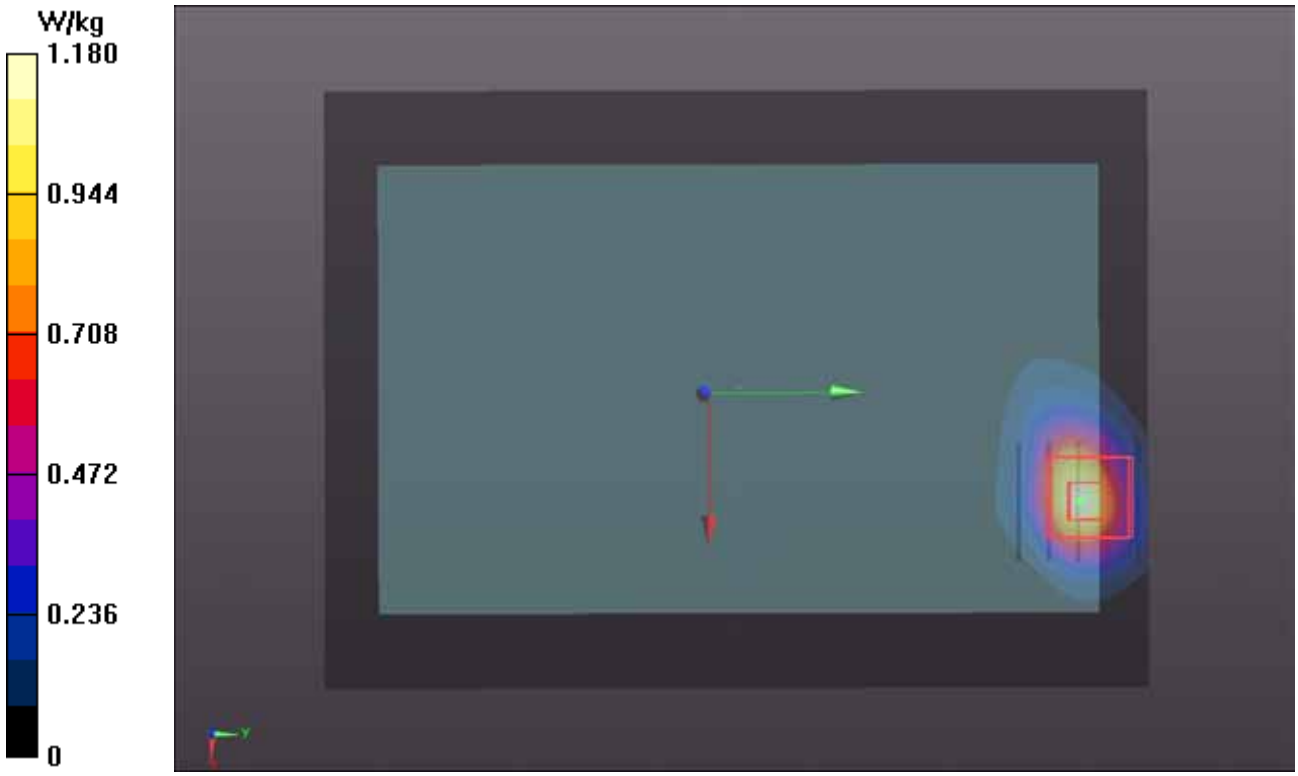
DUT: 120829C03

Communication System: GPRS10; Frequency: 1850.2 MHz;Duty Cycle: 1:4.00037
Medium: B1900_0830 Medium parameters used: f = 1850.2 MHz; σ = 1.479 mho/m; ε_r = 53.001; ρ = 1000 kg/m^3
Ambient Temperature：21.9 ℃; Liquid Temperature：20.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(7.88, 7.88, 7.88); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch512/Area Scan (81x111x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 1.18 W/kg

Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 0 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 1.704 mW/g
SAR(1 g) = 0.893 mW/g; SAR(10 g) = 0.416 mW/g
Maximum value of SAR (measured) = 1.32 W/kg



P12 GSM1900_GPRS10_Secondary Portrait_0cm_Ch512_Sensor On

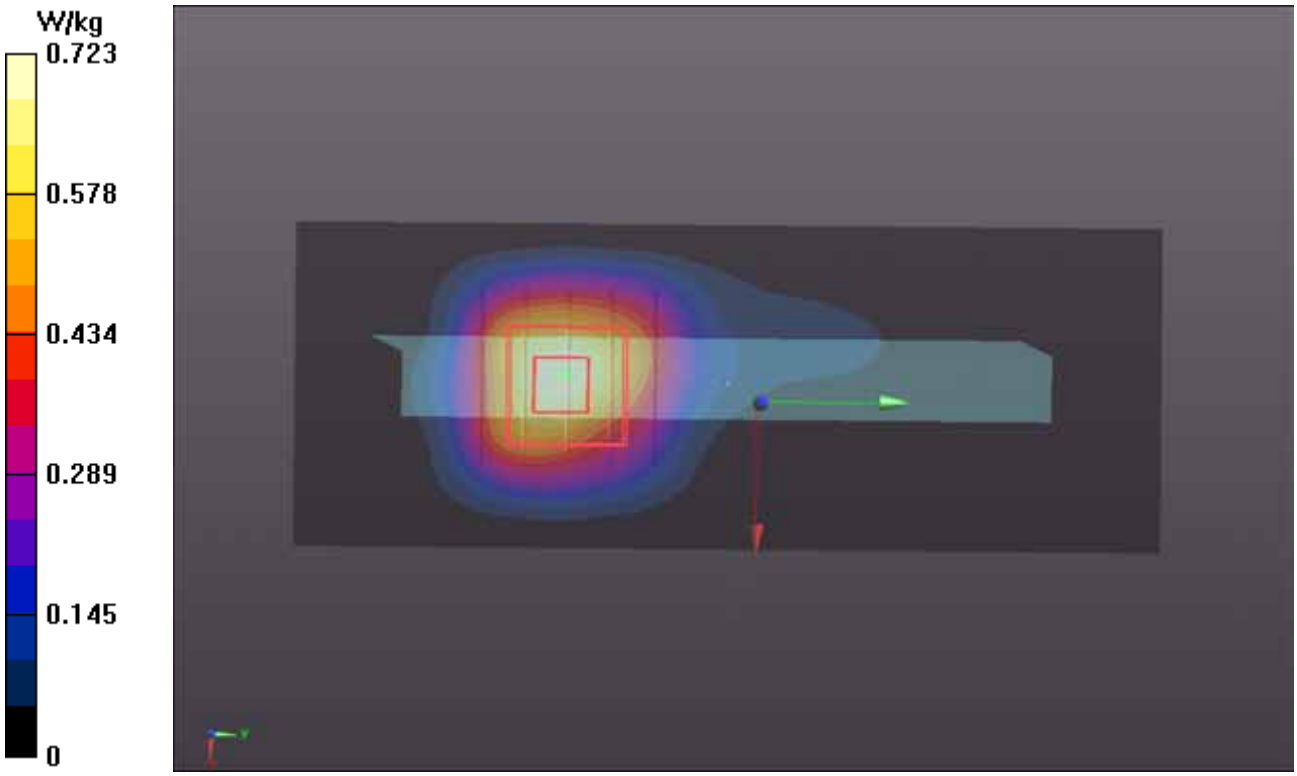
DUT: 120829C03

Communication System: GPRS10; Frequency: 1850.2 MHz;Duty Cycle: 1:4.00037
Medium: B1900_0830 Medium parameters used: f = 1850.2 MHz; σ = 1.479 mho/m; ε_r = 53.001; ρ = 1000 kg/m^3
Ambient Temperature：21.9 ℃; Liquid Temperature：20.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(7.88, 7.88, 7.88); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch512/Area Scan (31x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.723 W/kg

Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.403 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 2.351 mW/g
SAR(1 g) = 1.2 mW/g; SAR(10 g) = 0.564 mW/g
Maximum value of SAR (measured) = 1.76 W/kg



P13 GSM1900_GPRS10_Primary Landscape_0cm_Ch512_Sensor On

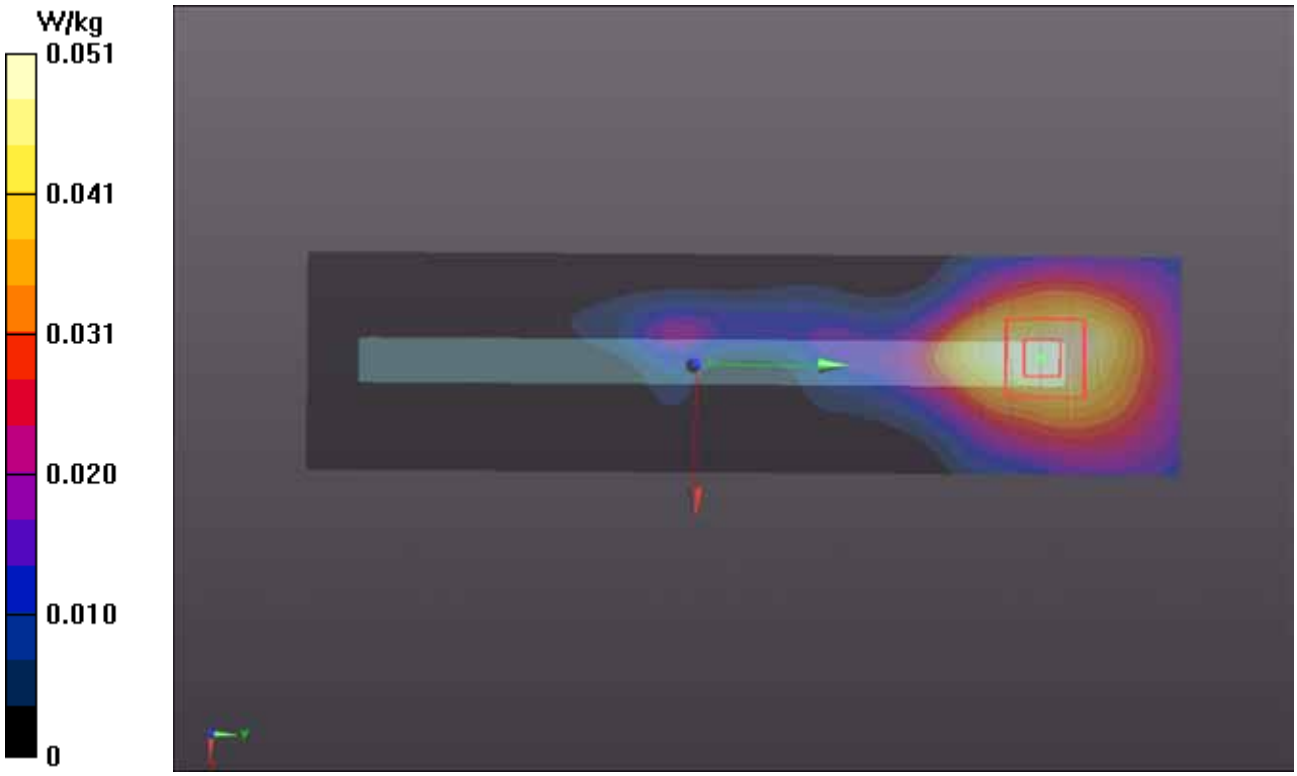
DUT: 120829C03

Communication System: GPRS10; Frequency: 1850.2 MHz;Duty Cycle: 1:4.00037
Medium: B1900_0830 Medium parameters used: f = 1850.2 MHz; σ = 1.479 mho/m; ε_r = 53.001; ρ = 1000 kg/m^3
Ambient Temperature：21.9 ℃; Liquid Temperature：20.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(7.88, 7.88, 7.88); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch512/Area Scan (31x121x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.0511 W/kg

Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.507 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.222 mW/g
SAR(1 g) = 0.074 mW/g; SAR(10 g) = 0.031 mW/g
Maximum value of SAR (measured) = 0.181 W/kg



P20 GSM1900_GPRS10_Rear Face_0cm_Ch661_Sensor On

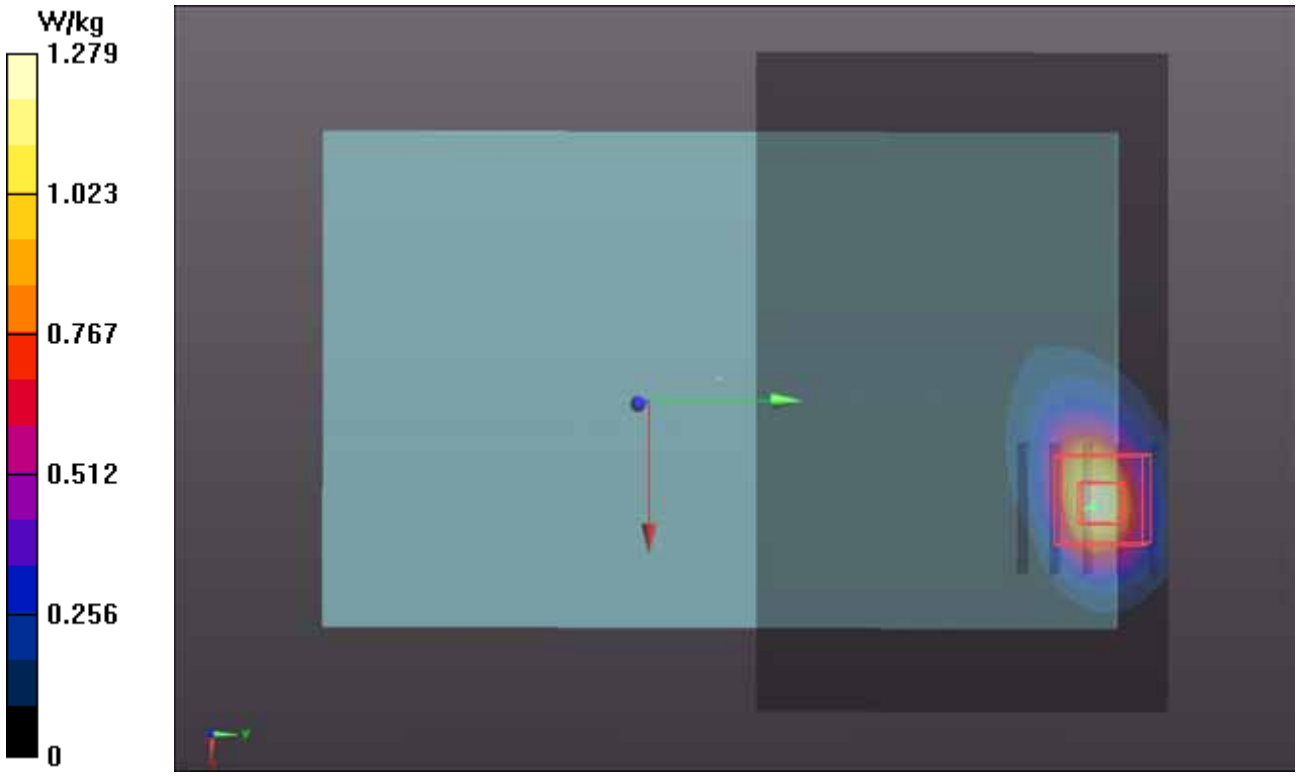
DUT: 120829C03

Communication System: GPRS10; Frequency: 1880 MHz;Duty Cycle: 1:4.00037
Medium: B1900_0830 Medium parameters used: f = 1880 MHz; σ = 1.521 mho/m; ε_r = 52.861; ρ = 1000 kg/m^3
Ambient Temperature：21.9 ℃; Liquid Temperature：20.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(7.88, 7.88, 7.88); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch661/Area Scan (81x51x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 1.28 W/kg

Ch661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 0 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.865 mW/g
SAR(1 g) = 0.966 mW/g; SAR(10 g) = 0.443 mW/g
Maximum value of SAR (measured) = 1.43 W/kg



P21 GSM1900_GPRS10_Rear Face_0cm_Ch810_Sensor On

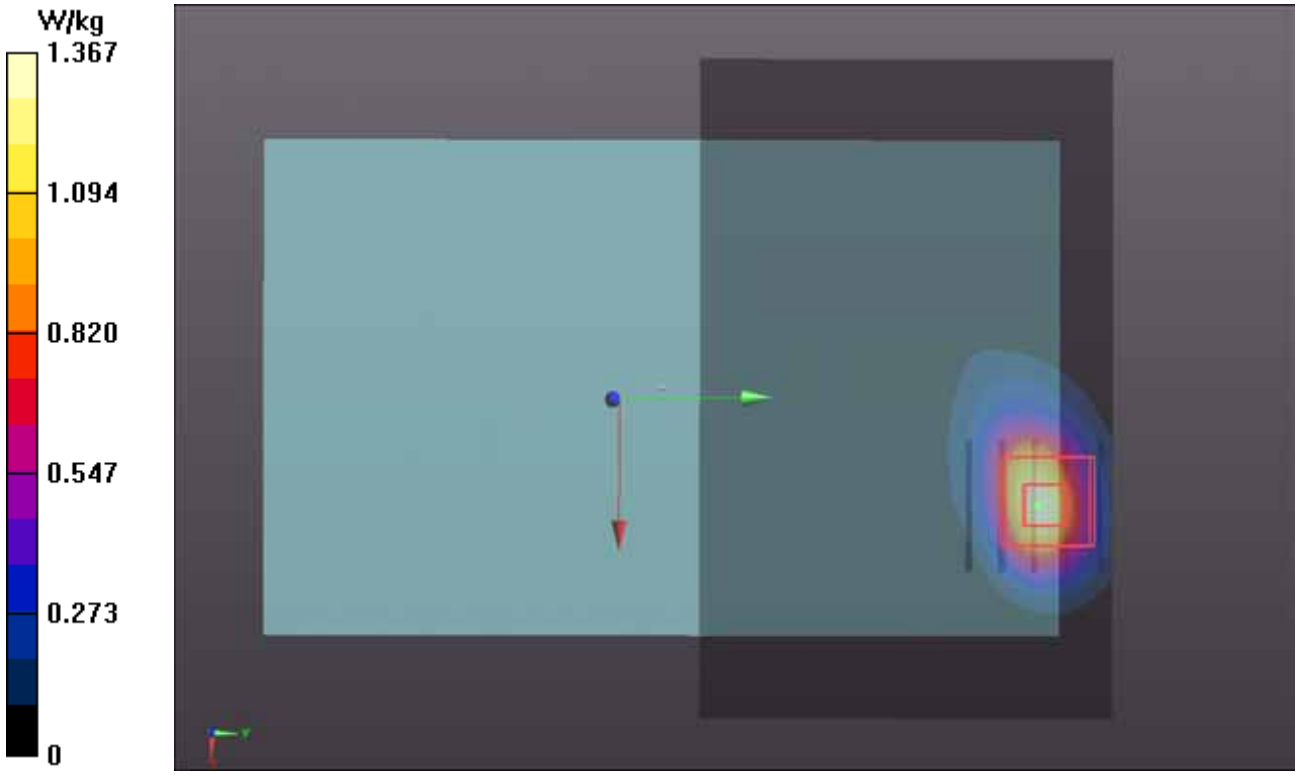
DUT: 120829C03

Communication System: GPRS10; Frequency: 1909.8 MHz;Duty Cycle: 1:4.00037
Medium: B1900_0830 Medium parameters used: f = 1910 MHz; σ = 1.555 mho/m; ε_r = 52.797; ρ = 1000 kg/m^3
Ambient Temperature：21.9 ℃; Liquid Temperature：20.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(7.88, 7.88, 7.88); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch810/Area Scan (81x51x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 1.37 W/kg

Ch810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 0 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.984 mW/g
SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.471 mW/g
Maximum value of SAR (measured) = 1.56 W/kg



P22 GSM1900_GPRS10_Secondary Portrait_0cm_Ch661_Sensor On

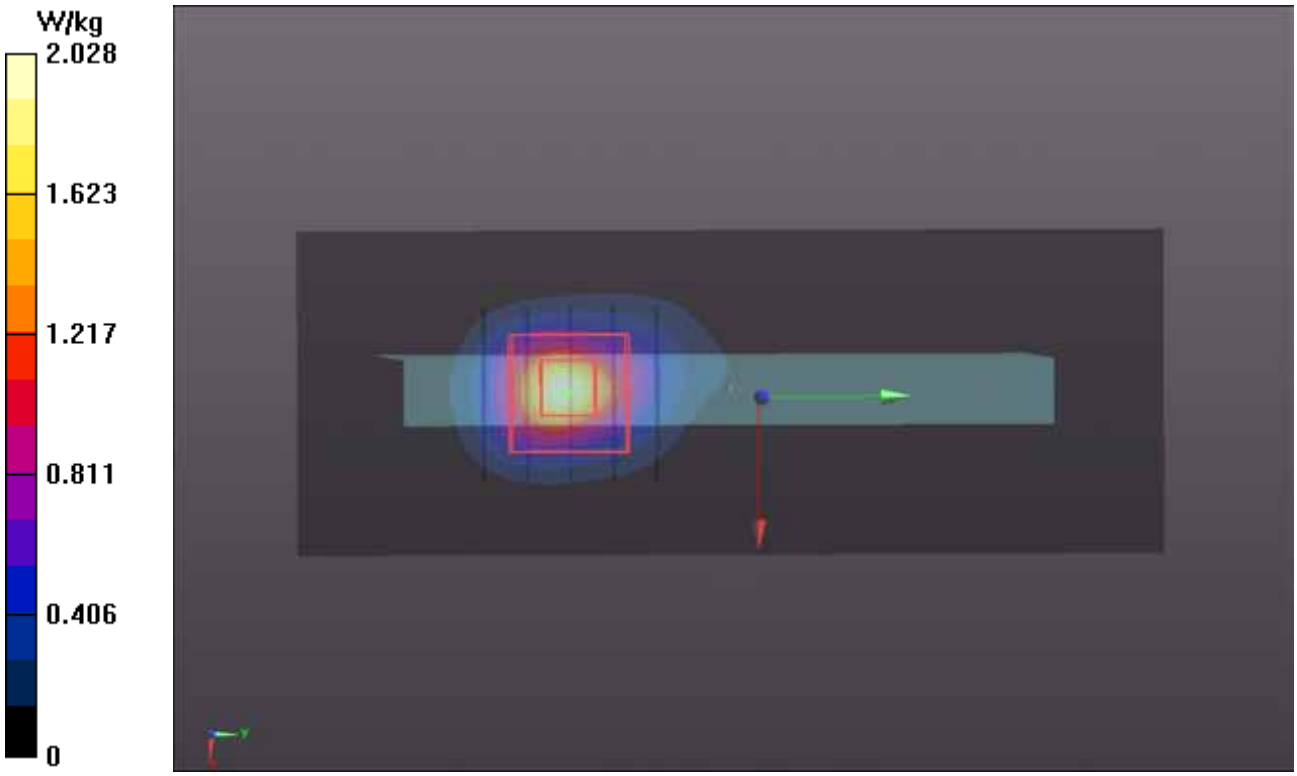
DUT: 120829C03

Communication System: GPRS10; Frequency: 1880 MHz;Duty Cycle: 1:4.00037
Medium: B1900_0830 Medium parameters used: f = 1880 MHz; σ = 1.521 mho/m; ε_r = 52.861; ρ = 1000 kg/m^3
Ambient Temperature：21.9 ℃; Liquid Temperature：20.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(7.88, 7.88, 7.88); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch661/Area Scan (31x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 2.03 W/kg

Ch661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.992 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 2.433 mW/g
SAR(1 g) = 1.26 mW/g; SAR(10 g) = 0.586 mW/g
Maximum value of SAR (measured) = 1.88 W/kg



P23 GSM1900_GPRS10_Secondary Portrait_0cm_Ch810_Sensor On

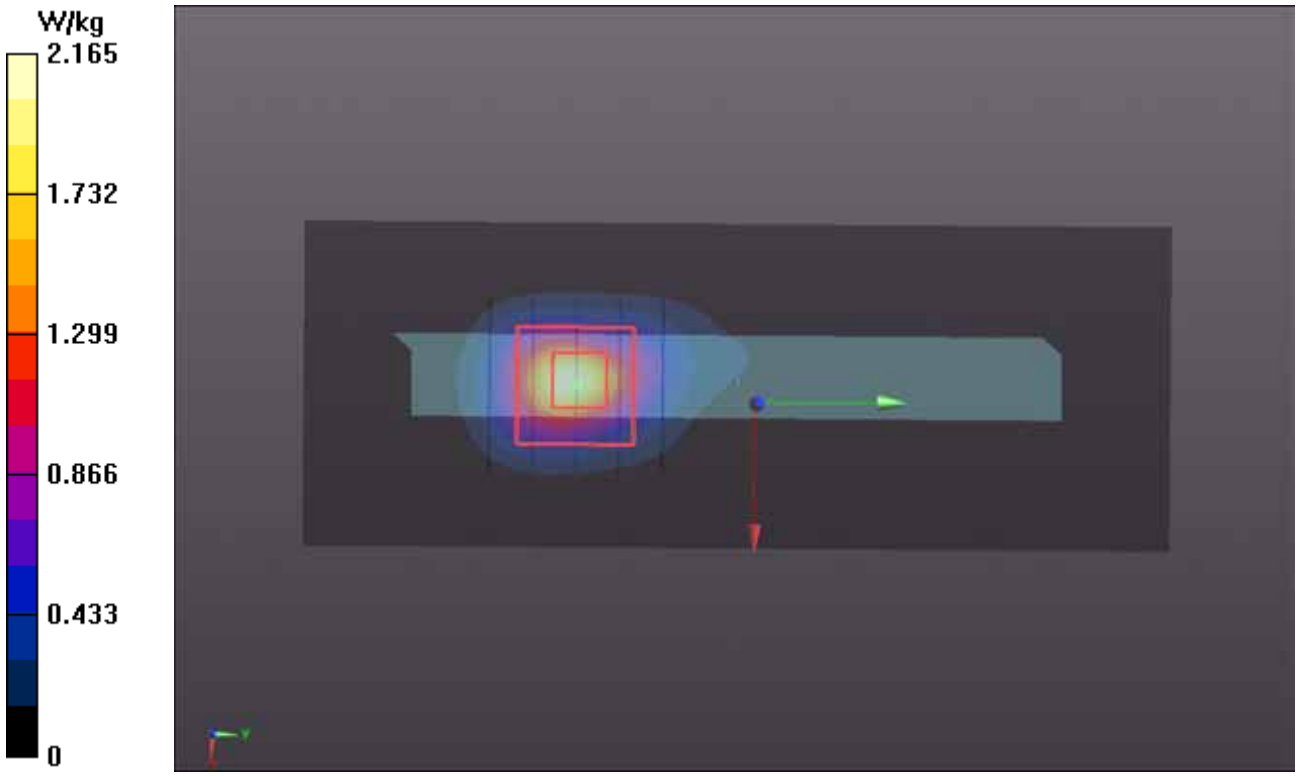
DUT: 120829C03

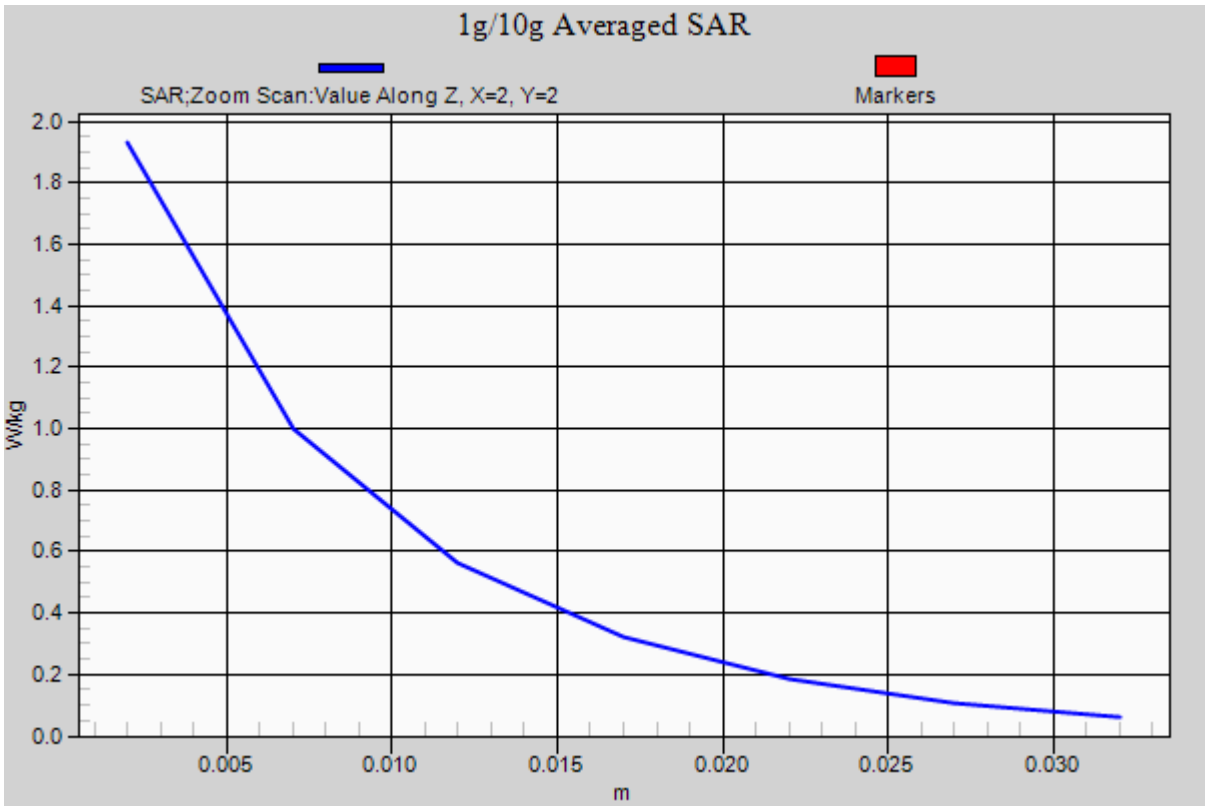
Communication System: GPRS10; Frequency: 1909.8 MHz;Duty Cycle: 1:4.00037
Medium: B1900_0830 Medium parameters used: f = 1910 MHz; σ = 1.555 mho/m; ε_r = 52.797; ρ = 1000 kg/m^3
Ambient Temperature：21.9 ℃; Liquid Temperature：20.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(7.88, 7.88, 7.88); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch810/Area Scan (31x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 2.17 W/kg

Ch810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.691 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 2.518 mW/g
SAR(1 g) = 1.3 mW/g; SAR(10 g) = 0.602 mW/g
Maximum value of SAR (measured) = 1.93 W/kg




1g/10g Averaged SAR
SAR;Zoom Scan:Value Along Z, X=2, Y=2
Markers
W/kg
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0.005
0.010
0.015
0.020
0.025
0.030
m

P06 WCDMA V_RMC12.2k_Rear Face_0cm_Ch4132_Sensor On

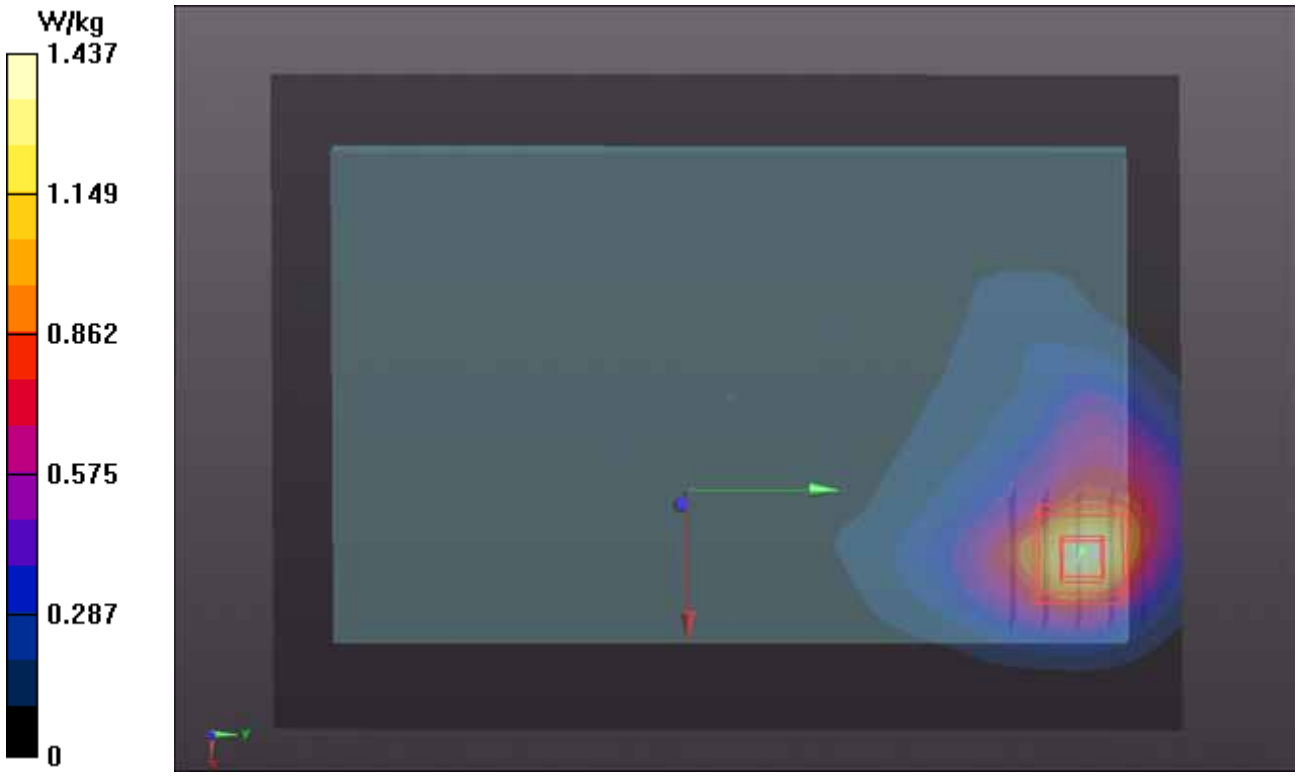
DUT: 120829C03

Communication System: WCDMA; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium: B835_0829 Medium parameters used: f = 826.4 MHz; σ = 0.964 mho/m; ε_r = 55.283; ρ = 1000 kg/m^3
Ambient Temperature：21.8 ℃; Liquid Temperature：20.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3590; ConvF(10.47, 10.47, 10.47); Calibrated: 2012/02/23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2012/04/27
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch4132/Area Scan (81x111x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 1.44 W/kg

Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.136 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 1.812 mW/g
SAR(1 g) = 0.995 mW/g; SAR(10 g) = 0.557 mW/g
Maximum value of SAR (measured) = 1.39 W/kg



P07 WCDMA V_RMC12.2k_Secondary Portrait_0cm_Ch4132_Sensor On

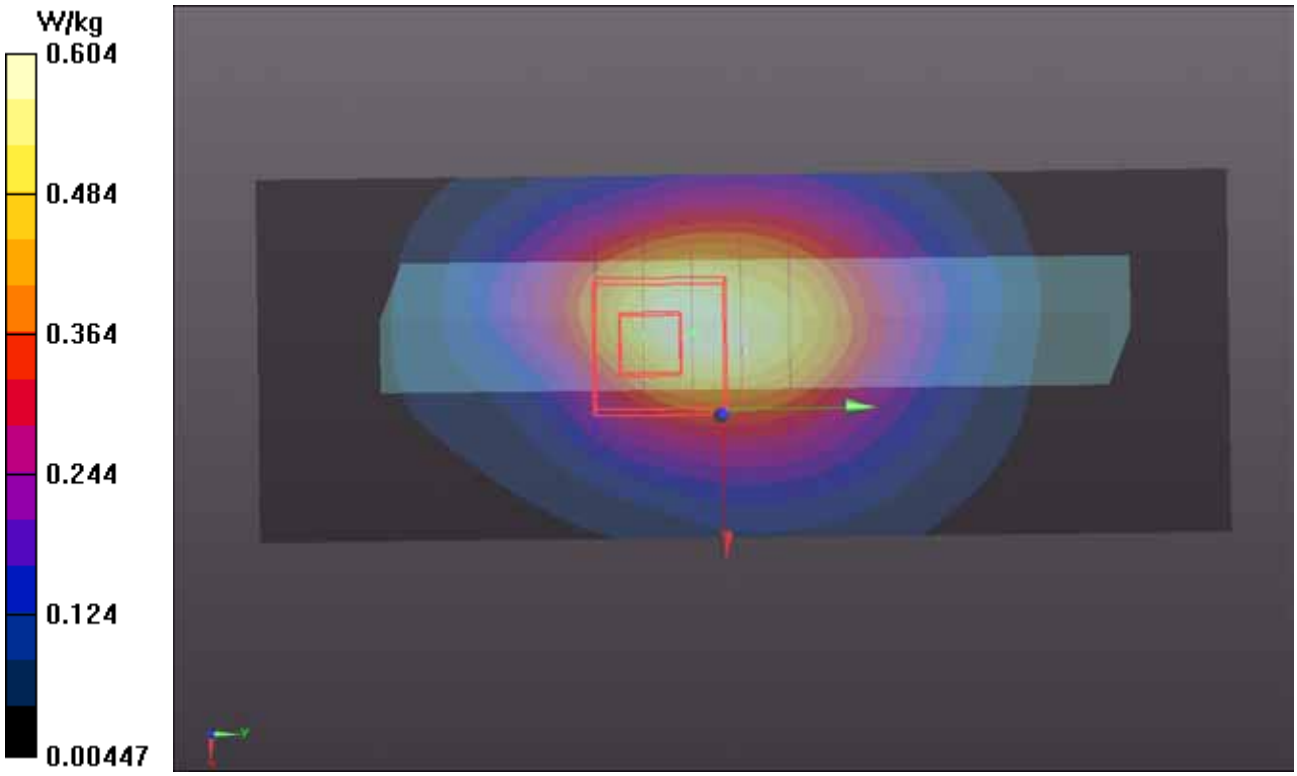
DUT: 120829C03

Communication System: WCDMA; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium: B835_0829 Medium parameters used: f = 826.4 MHz; σ = 0.964 mho/m; ε_r = 55.283; ρ = 1000 kg/m^3
Ambient Temperature：21.8 ℃; Liquid Temperature：20.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3590; ConvF(10.47, 10.47, 10.47); Calibrated: 2012/02/23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2012/04/27
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch4132/Area Scan (31x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.604 W/kg

Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.176 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 1.442 mW/g
SAR(1 g) = 0.698 mW/g; SAR(10 g) = 0.376 mW/g
Maximum value of SAR (measured) = 1.05 W/kg



P08 WCDMA V_RMC12.2k_Primary Landscape_0cm_Ch4132_Sensor On

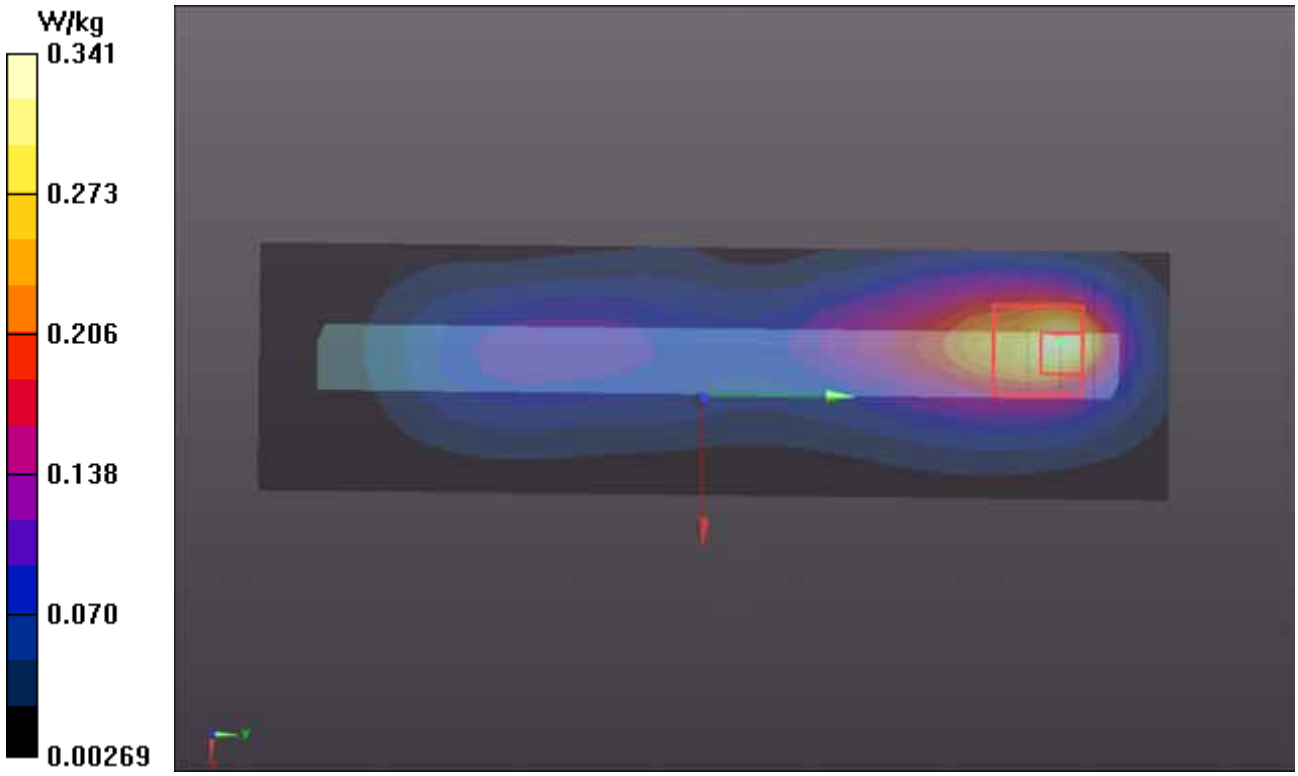
DUT: 120829C03

Communication System: WCDMA; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium: B835_0829 Medium parameters used: f = 826.4 MHz; σ = 0.964 mho/m; ε_r = 55.283; ρ = 1000 kg/m^3
Ambient Temperature：21.8 ℃； Liquid Temperature：20.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3590; ConvF(10.47, 10.47, 10.47); Calibrated: 2012/02/23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2012/04/27
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch4132/Area Scan (31x111x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.341 W/kg

Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.502 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.468 mW/g
SAR(1 g) = 0.221 mW/g; SAR(10 g) = 0.130 mW/g
Maximum value of SAR (measured) = 0.304 W/kg



P09 WCDMA V_RMC12.2k_Rear Face_0cm_Ch4182_Sensor On

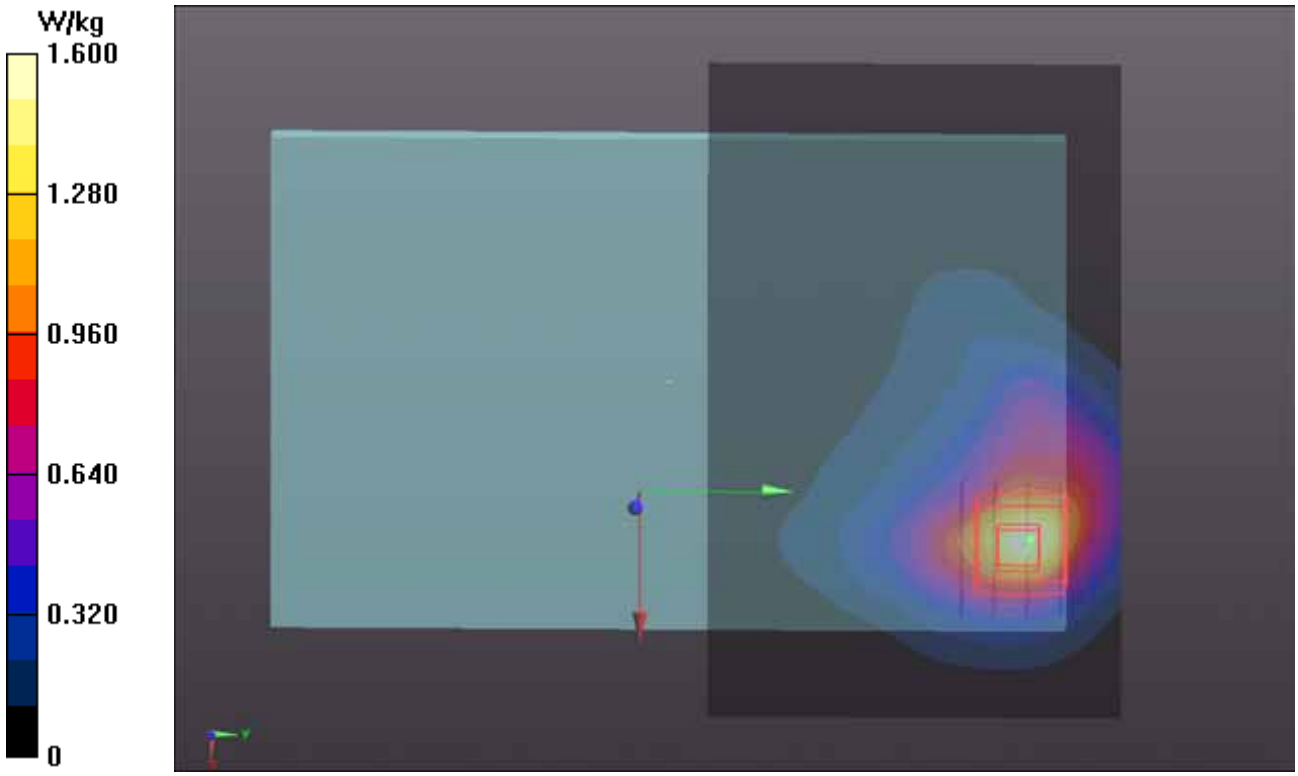
DUT: 120829C03

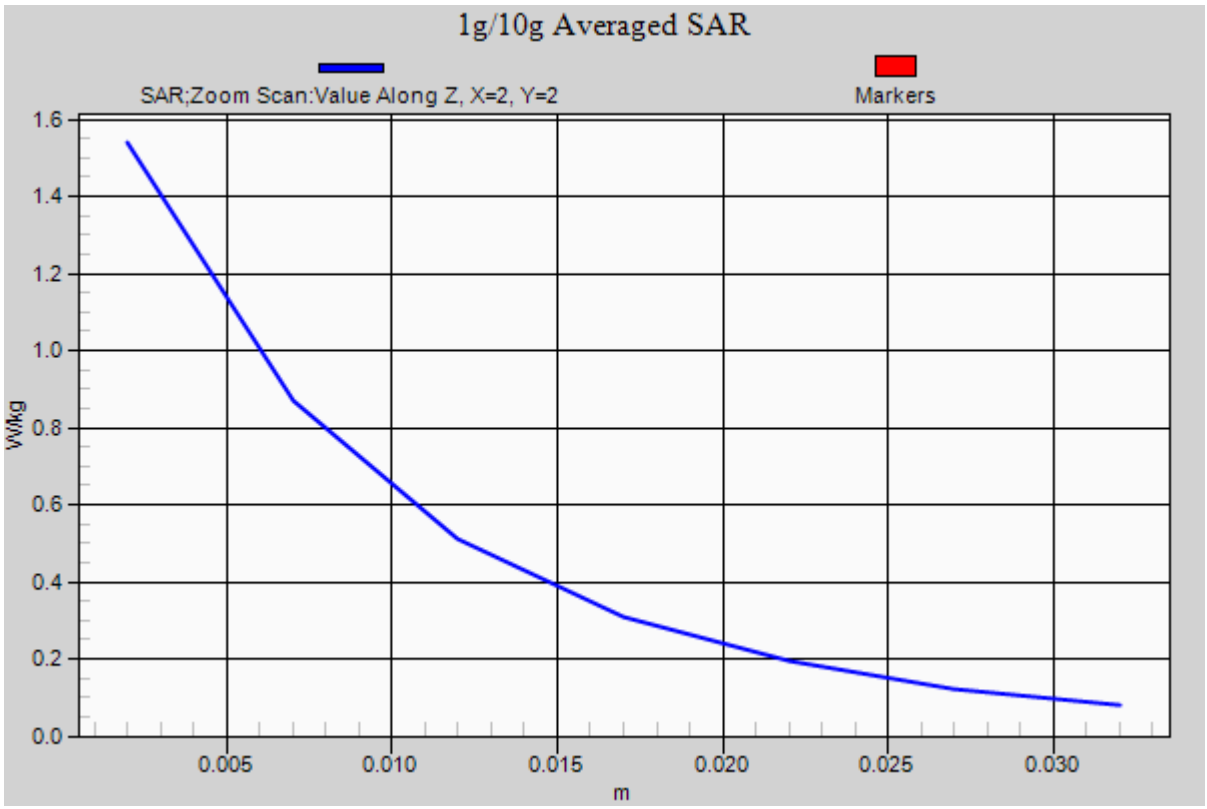
Communication System: WCDMA; Frequency: 836.4 MHz;Duty Cycle: 1:1
Medium: B835_0829 Medium parameters used: f = 836.4 MHz; σ = 0.974 mho/m; ε_r = 55.189; ρ = 1000 kg/m^3
Ambient Temperature：21.8 ℃; Liquid Temperature：20.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3590; ConvF(10.47, 10.47, 10.47); Calibrated: 2012/02/23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2012/04/27
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch4182/Area Scan (81x51x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 1.60 W/kg

Ch4182/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.242 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 2.026 mW/g
SAR(1 g) = 1.12 mW/g; SAR(10 g) = 0.627 mW/g
Maximum value of SAR (measured) = 1.54 W/kg




1g/10g Averaged SAR
SAR;Zoom Scan:Value Along Z, X=2, Y=2
Markers
W/kg
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0.005
0.010
0.015
0.020
0.025
0.030
m

P10 WCDMA V_RMC12.2k_Rear Face_0cm_Ch4233_Sensor On

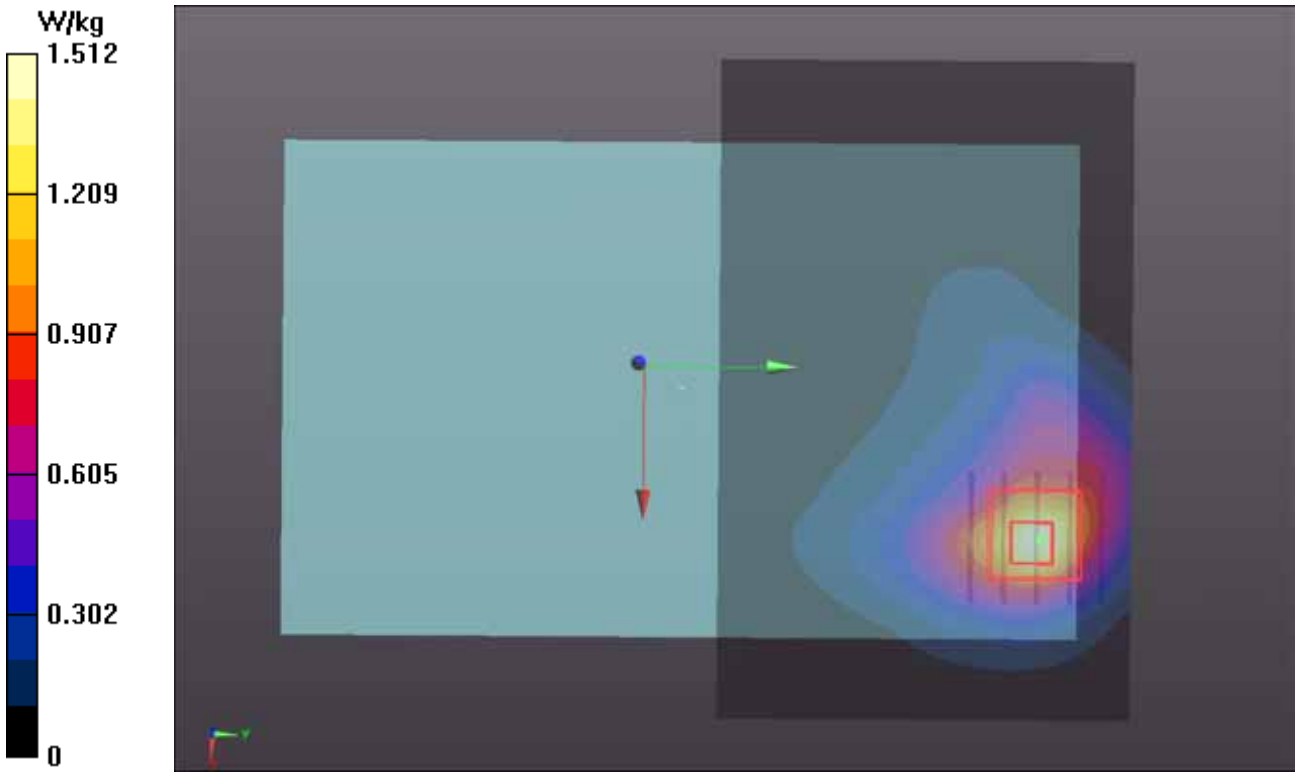
DUT: 120829C03

Communication System: WCDMA; Frequency: 846.6 MHz;Duty Cycle: 1:1
Medium: B835_0829 Medium parameters used: f = 847 MHz; σ = 0.985 mho/m; ε_r = 55.088; ρ = 1000 kg/m^3
Ambient Temperature：21.8 ℃; Liquid Temperature：20.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3590; ConvF(10.47, 10.47, 10.47); Calibrated: 2012/02/23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2012/04/27
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch4233/Area Scan (81x51x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 1.51 W/kg

Ch4233/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.925 V/m; Power Drift = -0.18 dB
Peak SAR (extrapolated) = 1.938 mW/g
SAR(1 g) = 1.06 mW/g; SAR(10 g) = 0.594 mW/g
Maximum value of SAR (measured) = 1.48 W/kg



P14 WCDMA IV_RMC12.2k_Rear Face_0cm_Ch1312_Sensor On

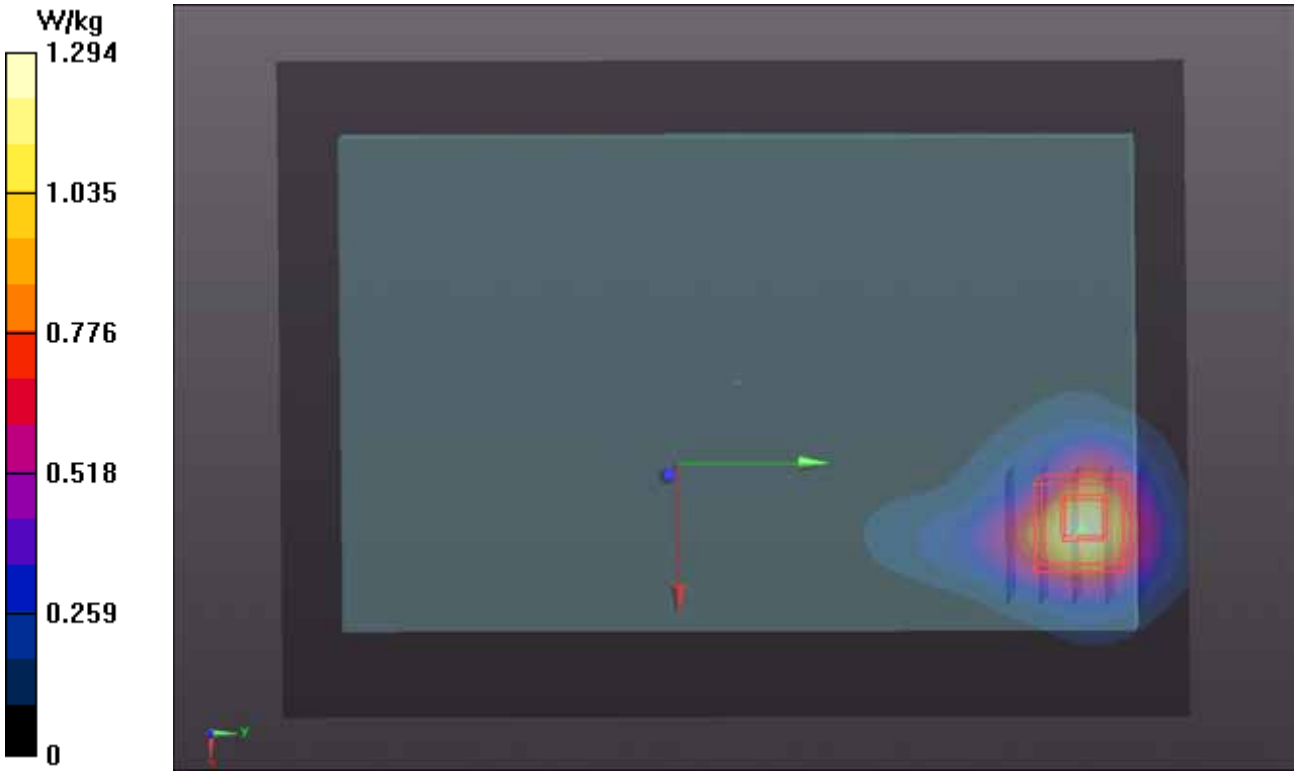
DUT: 120829C03

Communication System: WCDMA; Frequency: 1712.4 MHz;Duty Cycle: 1:1
Medium: B1750_0830 Medium parameters used: f = 1712.4 MHz; σ = 1.427 mho/m; ε_r = 53.747; ρ = 1000 kg/m^3
Ambient Temperature：21.7 ℃; Liquid Temperature：20.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(8.45, 8.45, 8.45); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch1312/Area Scan (81x111x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 1.29 W/kg

Ch1312/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 0.738 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 1.751 mW/g
SAR(1 g) = 0.970 mW/g; SAR(10 g) = 0.513 mW/g
Maximum value of SAR (measured) = 1.34 W/kg



P15 WCDMA IV_RMC12.2k_Secondary Portrait_0cm_Ch1312_Sensor On

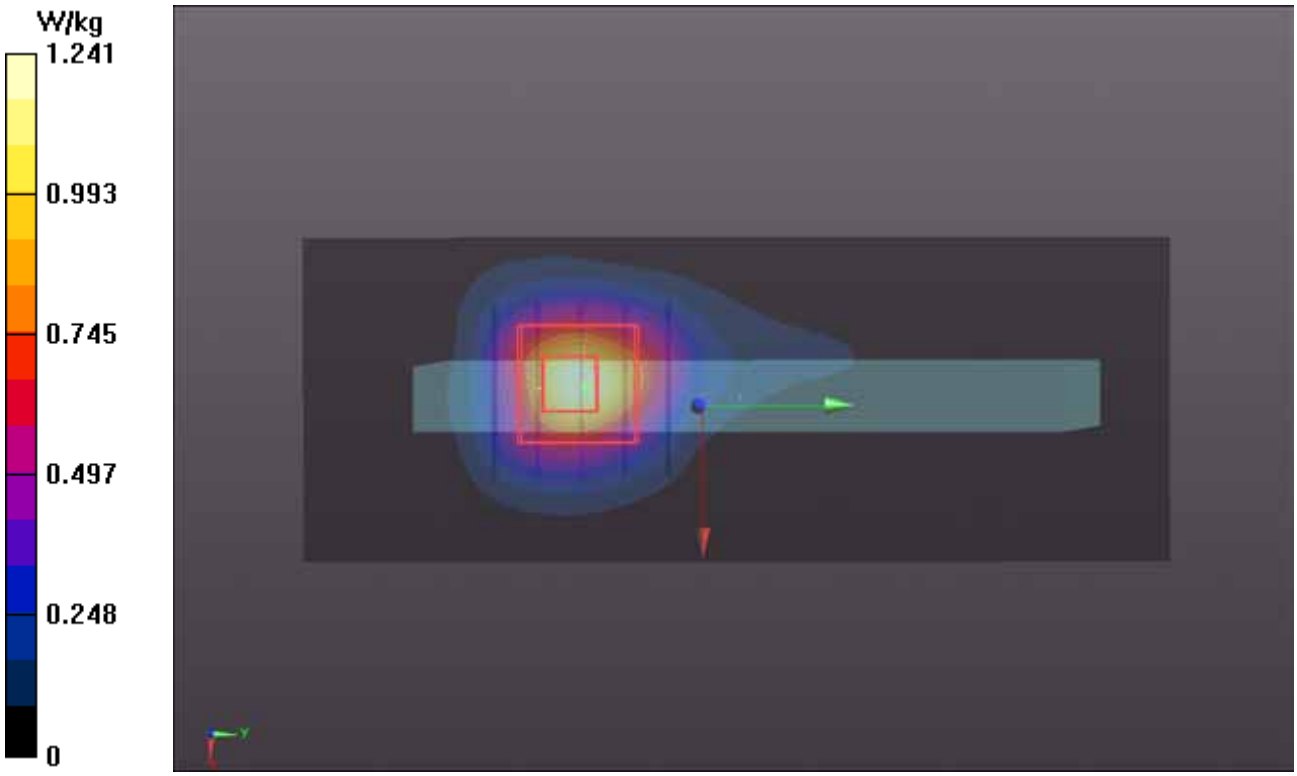
DUT: 120829C03

Communication System: WCDMA; Frequency: 1712.4 MHz;Duty Cycle: 1:1
Medium: B1750_0830 Medium parameters used: f = 1712.4 MHz; σ = 1.427 mho/m; ε_r = 53.747; ρ = 1000 kg/m^3
Ambient Temperature：21.7 ℃; Liquid Temperature：20.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(8.45, 8.45, 8.45); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch1312/Area Scan (31x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 1.24 W/kg

Ch1312/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.811 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 1.939 mW/g
SAR(1 g) = 0.925 mW/g; SAR(10 g) = 0.457 mW/g
Maximum value of SAR (measured) = 1.39 W/kg



P30 WCDMA IV_RMC12.2k_Primary Landscape_0cm_Ch1312_Sensor On

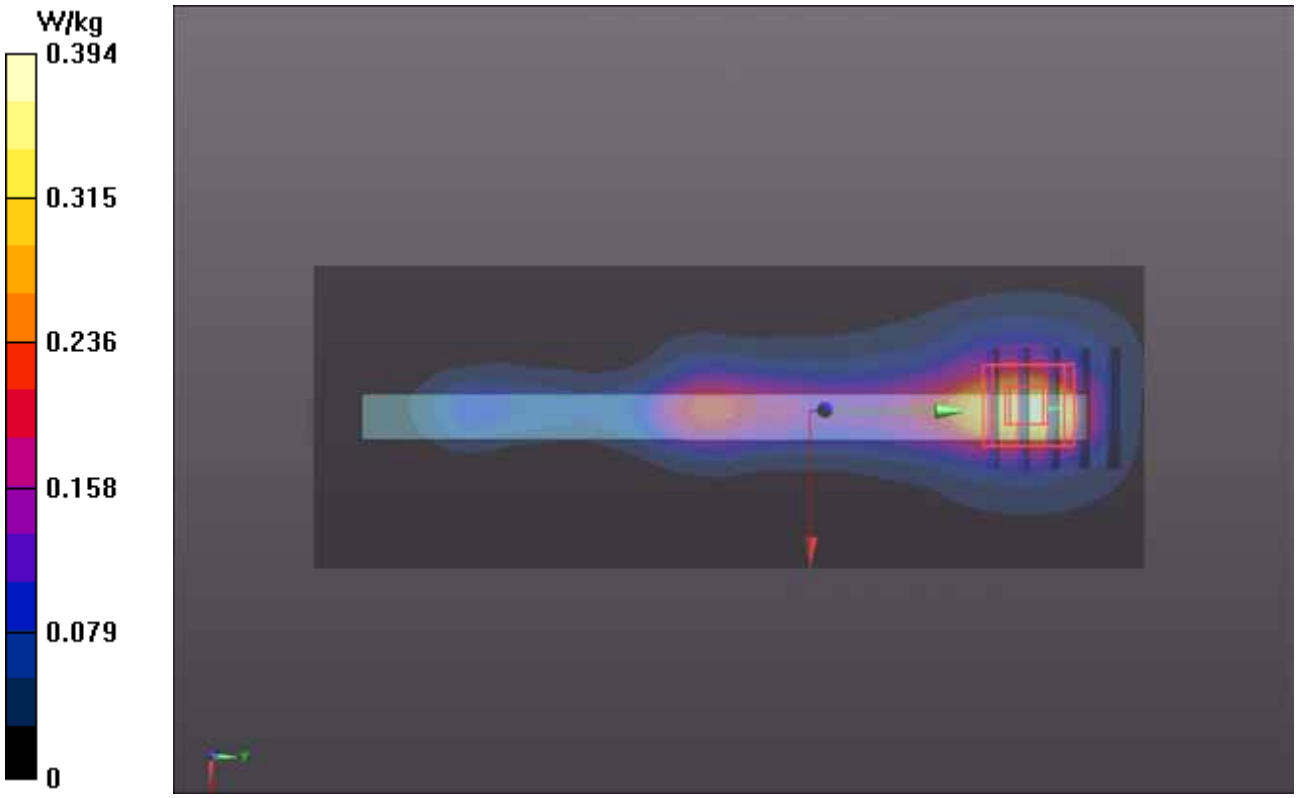
DUT: 120829C03

Communication System: WCDMA; Frequency: 1712.4 MHz;Duty Cycle: 1:1
Medium: B1750_0830 Medium parameters used: f = 1712.4 MHz; σ = 1.427 mho/m; ε_r = 53.747; ρ = 1000 kg/m^3
Ambient Temperature：21.7 ℃; Liquid Temperature：20.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(8.45, 8.45, 8.45); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch1312/Area Scan (41x111x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.394 W/kg

Ch1312/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.326 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.523 mW/g
SAR(1 g) = 0.283 mW/g; SAR(10 g) = 0.149 mW/g
Maximum value of SAR (measured) = 0.414 W/kg



P33 WCDMA IV_RMC12.2k_Rear Face_0cm_Ch1413_Sensor On

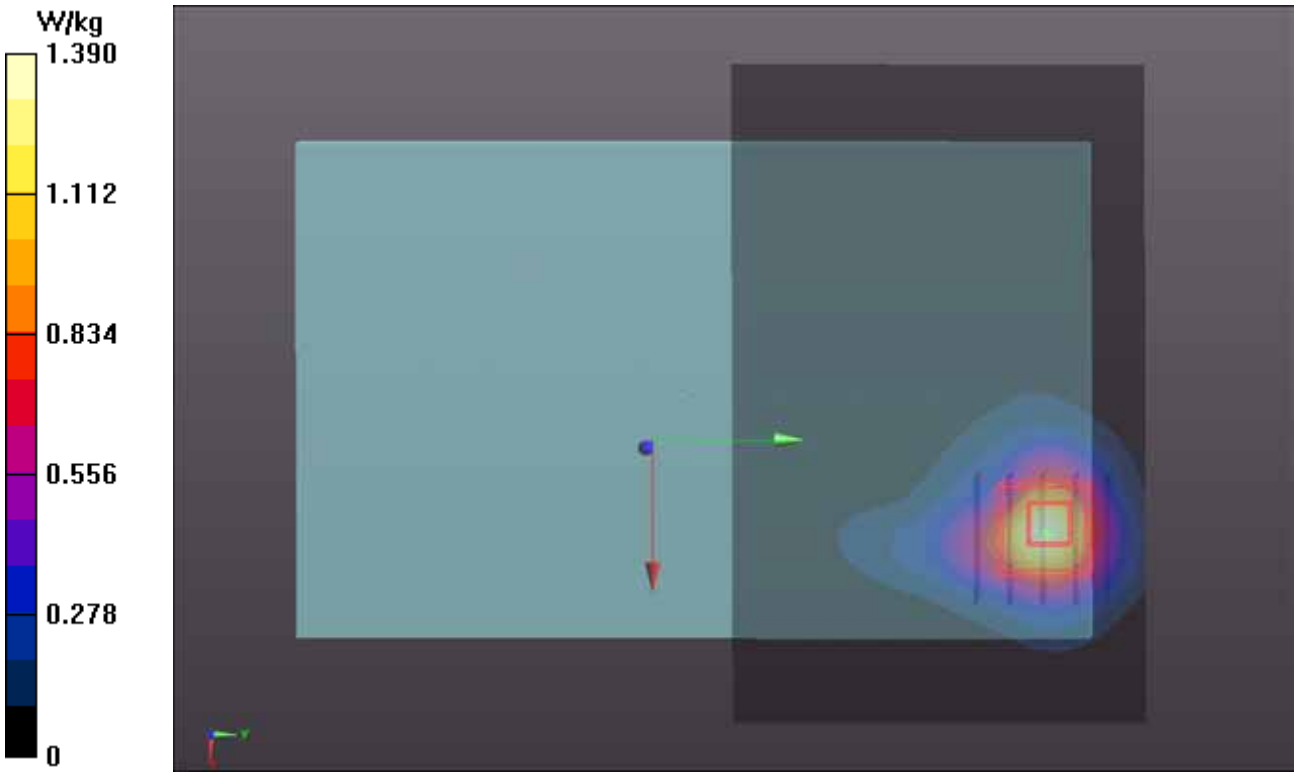
DUT: 120829C03

Communication System: WCDMA; Frequency: 1732.6 MHz;Duty Cycle: 1:1
Medium: B1750_0830 Medium parameters used: f = 1733 MHz; σ = 1.45 mho/m; ε_r = 53.697; ρ = 1000 kg/m^3
Ambient Temperature：21.7 ℃; Liquid Temperature：20.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(8.45, 8.45, 8.45); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch1413/Area Scan (81x51x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 1.39 W/kg

Ch1413/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 0.695 V/m; Power Drift = 0.010 dB
Peak SAR (extrapolated) = 1.782 mW/g
SAR(1 g) = 0.990 mW/g; SAR(10 g) = 0.527 mW/g
Maximum value of SAR (measured) = 1.33 W/kg



P34 WCDMA IV_RMC12.2k_Rear Face_0cm_Ch1513_Sensor On

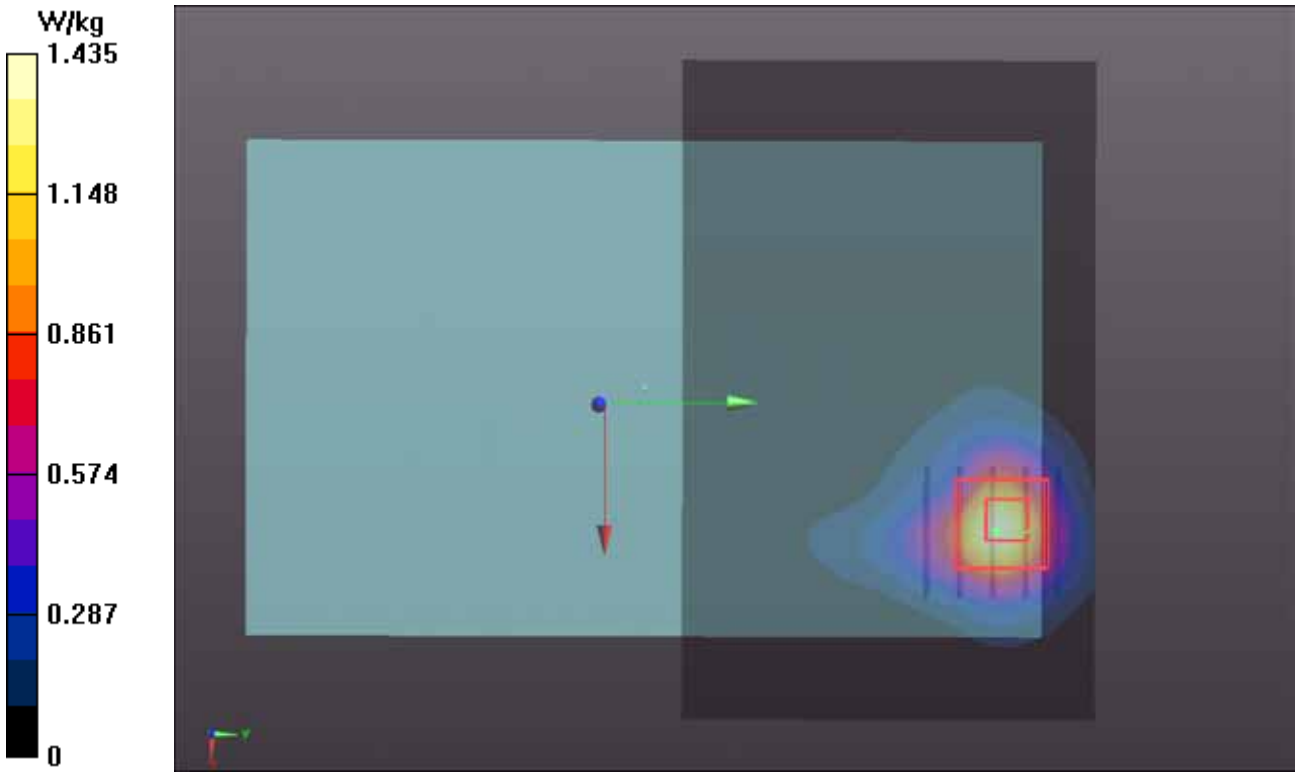
DUT: 120829C03

Communication System: WCDMA; Frequency: 1752.6 MHz;Duty Cycle: 1:1
Medium: B1750_0830 Medium parameters used: f = 1753 MHz; σ = 1.469 mho/m; ε_r = 53.646; ρ = 1000 kg/m^3
Ambient Temperature：21.7 ℃; Liquid Temperature：20.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(8.45, 8.45, 8.45); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch1513/Area Scan (81x51x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 1.44 W/kg

Ch1513/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 0 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.805 mW/g
SAR(1 g) = 0.991 mW/g; SAR(10 g) = 0.520 mW/g
Maximum value of SAR (measured) = 1.33 W/kg



P31 WCDMA IV_RMC12.2k_Secondary Portrait_0cm_Ch1413_Sensor On

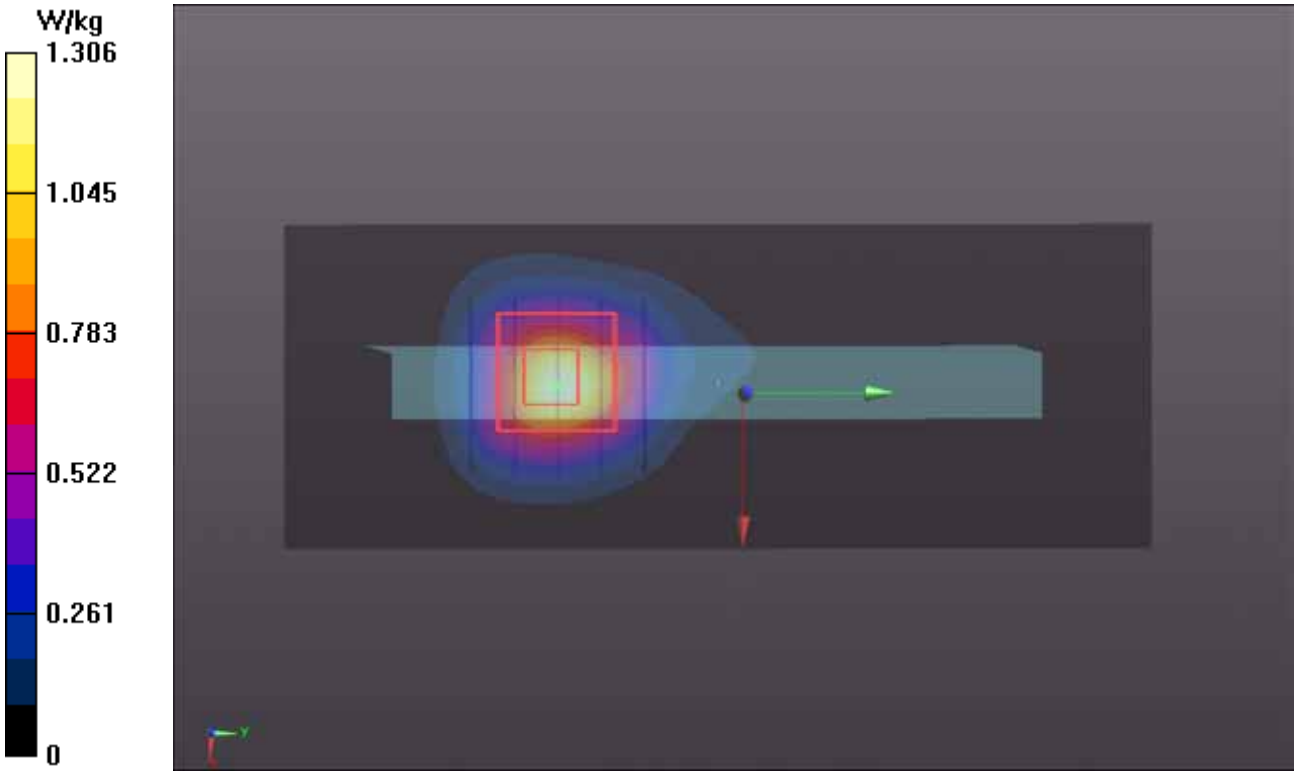
DUT: 120829C03

Communication System: WCDMA; Frequency: 1732.6 MHz;Duty Cycle: 1:1
Medium: B1750_0830 Medium parameters used: f = 1733 MHz; σ = 1.45 mho/m; ε_r = 53.697; ρ = 1000 kg/m^3
Ambient Temperature：21.7 ℃; Liquid Temperature：20.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(8.45, 8.45, 8.45); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch1413/Area Scan (31x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 1.31 W/kg

Ch1413/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.735 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 1.980 mW/g
SAR(1 g) = 0.961 mW/g; SAR(10 g) = 0.467 mW/g
Maximum value of SAR (measured) = 1.41 W/kg



P32 WCDMA IV_RMC12.2k_Secondary Portrait_0cm_Ch1513_Sensor On

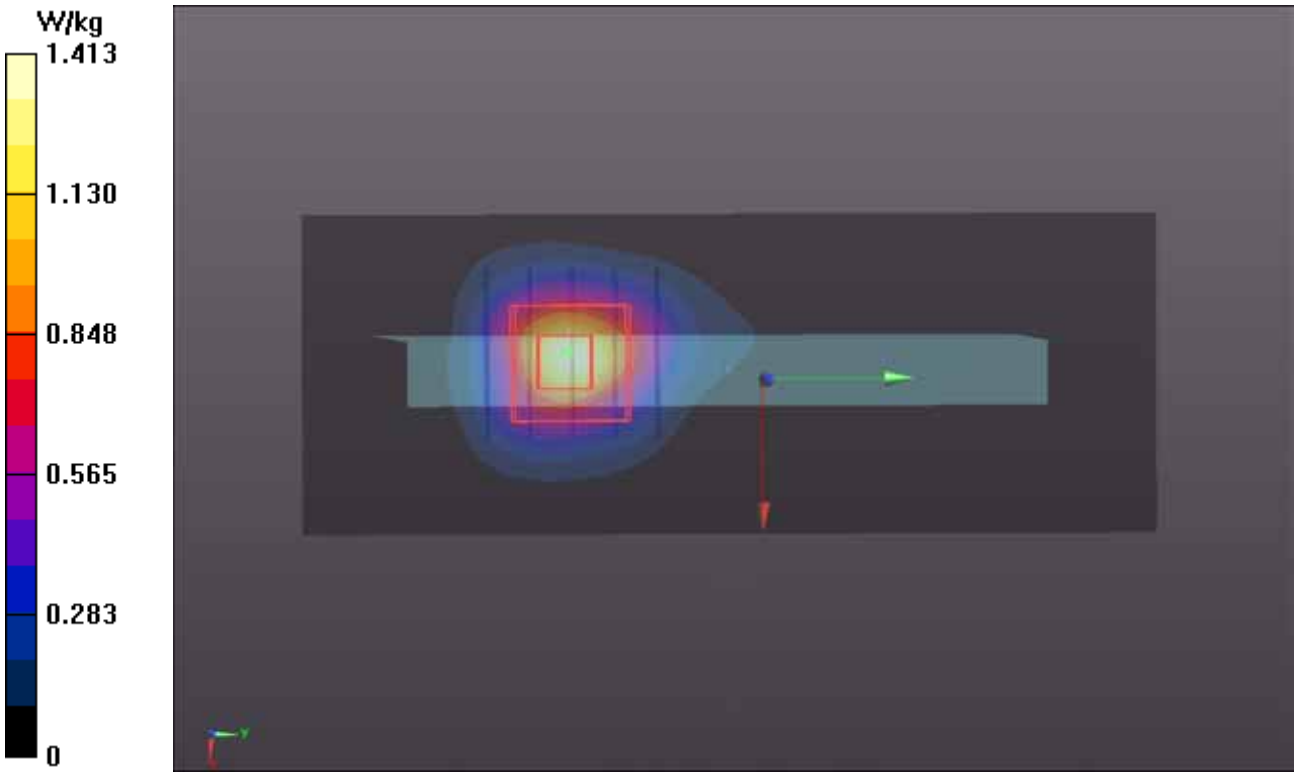
DUT: 120829C03

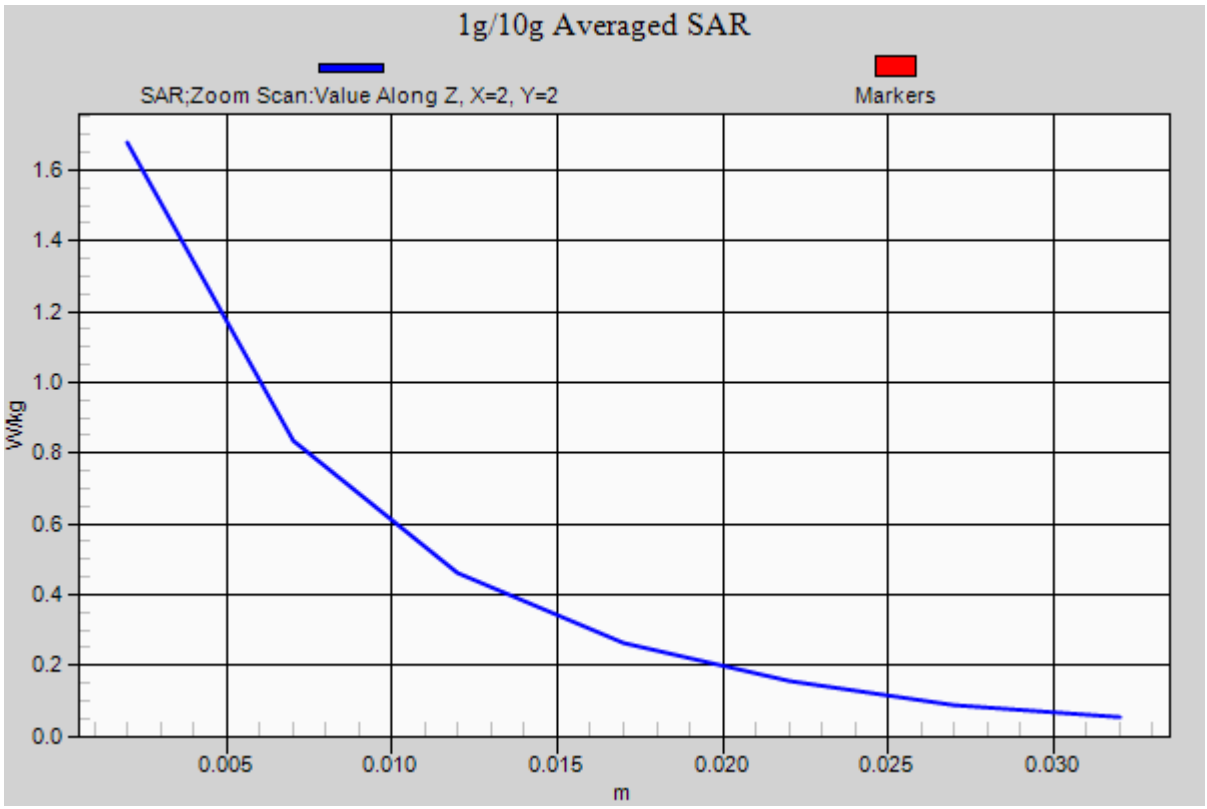
Communication System: WCDMA; Frequency: 1752.6 MHz;Duty Cycle: 1:1
Medium: B1750_0830 Medium parameters used: f = 1753 MHz; σ = 1.469 mho/m; ε_r = 53.646; ρ = 1000 kg/m^3
Ambient Temperature：21.7 ℃; Liquid Temperature：20.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(8.45, 8.45, 8.45); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch1513/Area Scan (31x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 1.41 W/kg

Ch1513/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.938 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 2.286 mW/g
SAR(1 g) = 1.12 mW/g; SAR(10 g) = 0.537 mW/g
Maximum value of SAR (measured) = 1.68 W/kg




1g/10g Averaged SAR
SAR;Zoom Scan:Value Along Z, X=2, Y=2
Markers
W/kg
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0.005
0.010
0.015
0.020
0.025
0.030
m

P17 WCDMA II_RMC12.2k_Rear Face_0cm_Ch9262_Sensor On

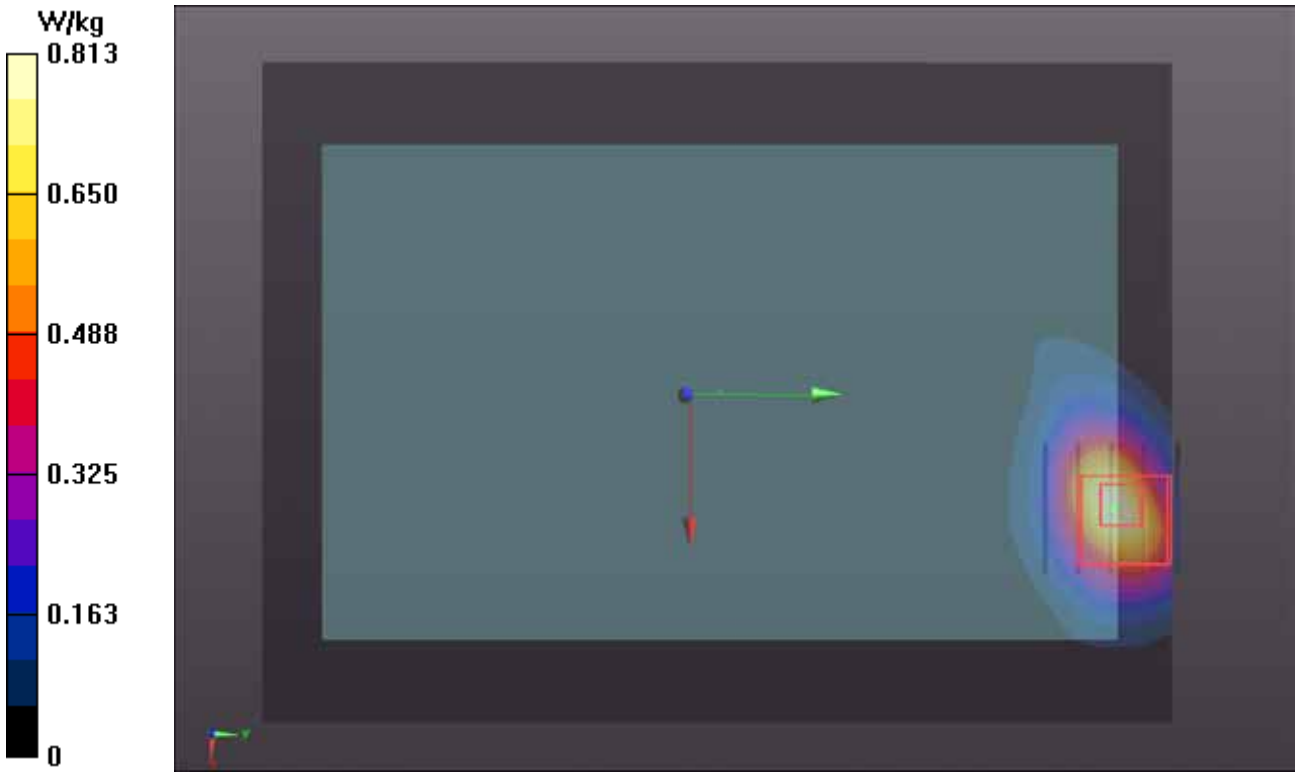
DUT: 120829C03

Communication System: WCDMA; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium: B1900_0830 Medium parameters used: f = 1852.4 MHz; σ = 1.482 mho/m; ε_r = 52.991; ρ = 1000 kg/m^3
Ambient Temperature：21.9 ℃; Liquid Temperature：20.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(7.88, 7.88, 7.88); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch9262/Area Scan (81x111x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.813 W/kg

Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 0 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.784 mW/g
SAR(1 g) = 0.976 mW/g; SAR(10 g) = 0.457 mW/g
Maximum value of SAR (measured) = 1.32 W/kg



P18 WCDMA II_RMC12.2k_Secondary Portrait_0cm_Ch9262_Sensor On

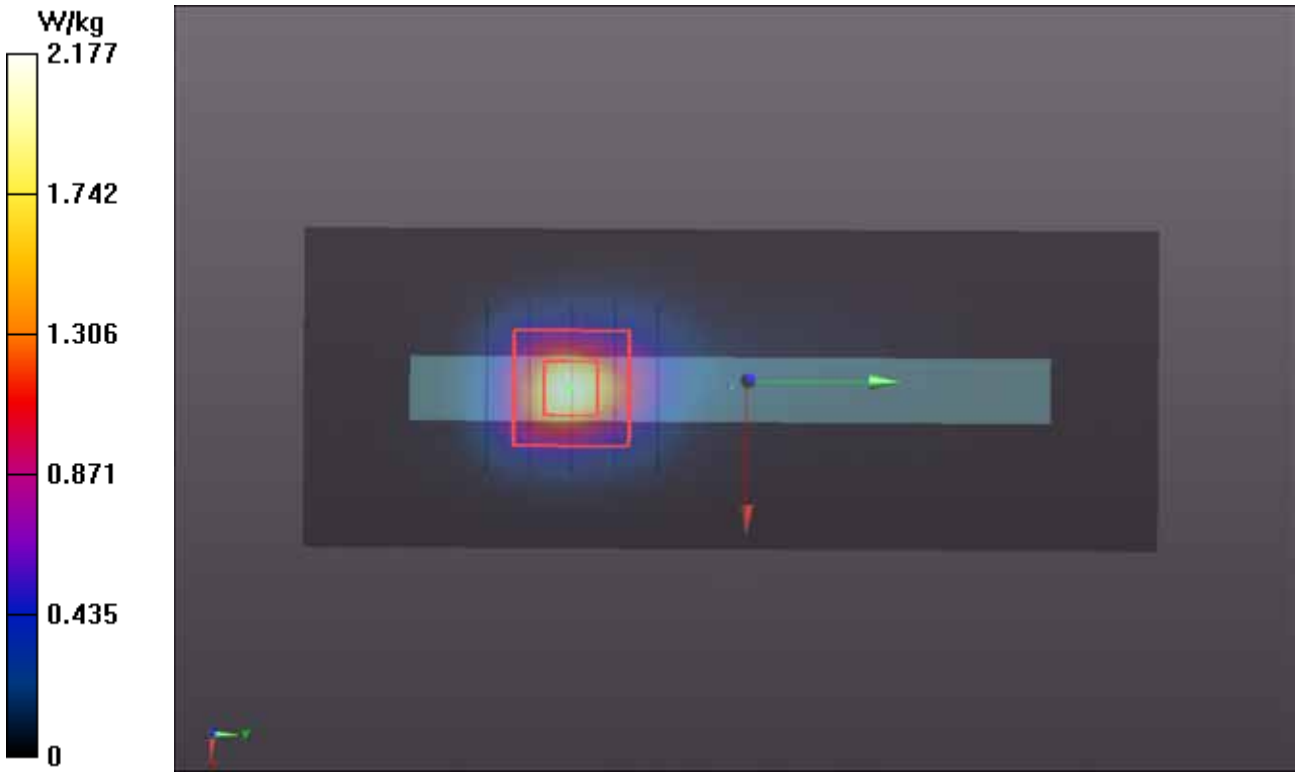
DUT: 120829C03

Communication System: WCDMA; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium: B1900_0830 Medium parameters used: f = 1852.4 MHz; σ = 1.482 mho/m; ε_r = 52.991; ρ = 1000 kg/m^3
Ambient Temperature：21.9 ℃; Liquid Temperature：20.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(7.88, 7.88, 7.88); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch9262/Area Scan (31x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 2.18 W/kg

Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.044 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 2.501 mW/g
SAR(1 g) = 1.26 mW/g; SAR(10 g) = 0.585 mW/g
Maximum value of SAR (measured) = 1.91 W/kg



P35 WCDMA II_RMC12.2k_Primary Landscape_0cm_Ch9262_Sensor On

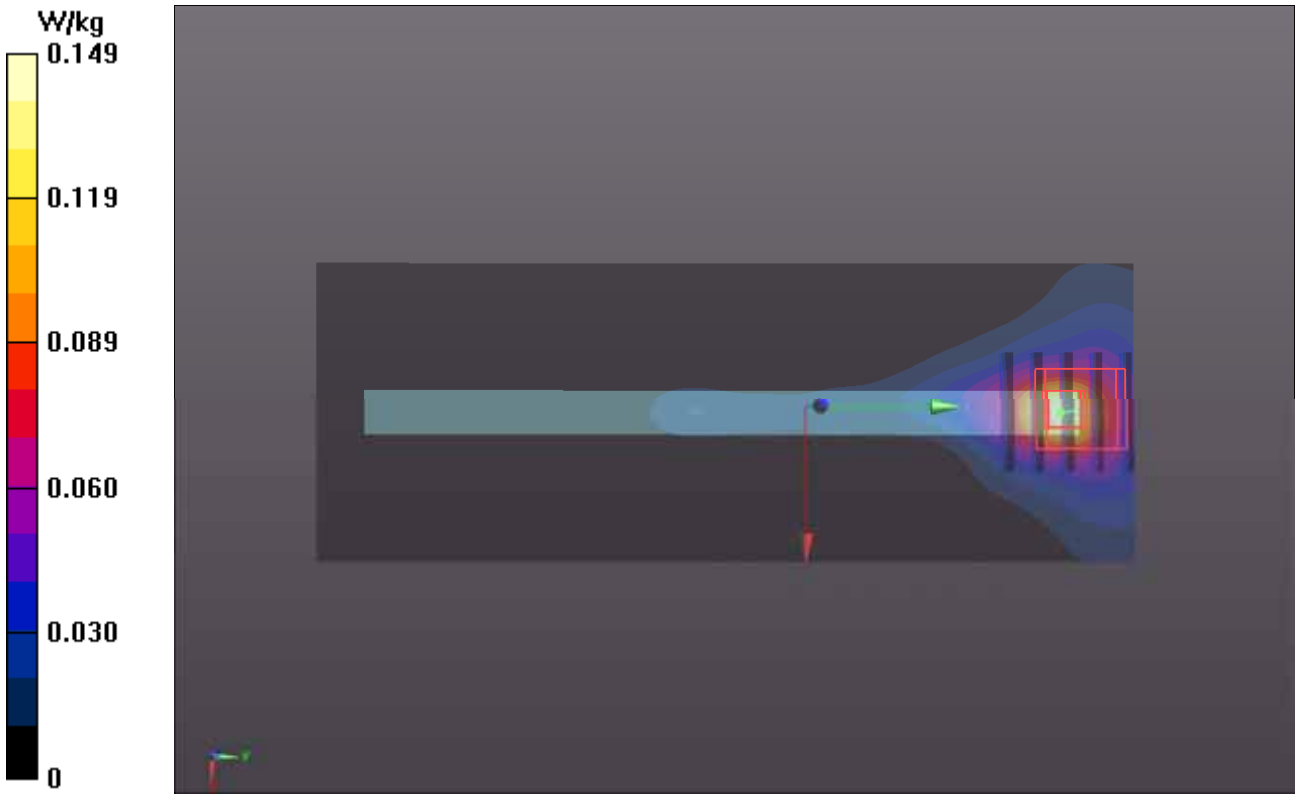
DUT: 120829C03

Communication System: WCDMA; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium: B1900_0830 Medium parameters used: f = 1852.4 MHz; σ = 1.482 mho/m; ε_r = 52.991; ρ = 1000 kg/m^3
Ambient Temperature：21.9 ℃; Liquid Temperature：20.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(7.88, 7.88, 7.88); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch9262/Area Scan (41x111x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.149 W/kg

Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.714 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 0.185 mW/g
SAR(1 g) = 0.075 mW/g; SAR(10 g) = 0.034 mW/g
Maximum value of SAR (measured) = 0.152 W/kg



P26 WCDMA II_RMC12.2k_Rear Face_0cm_Ch9400_Sensor On

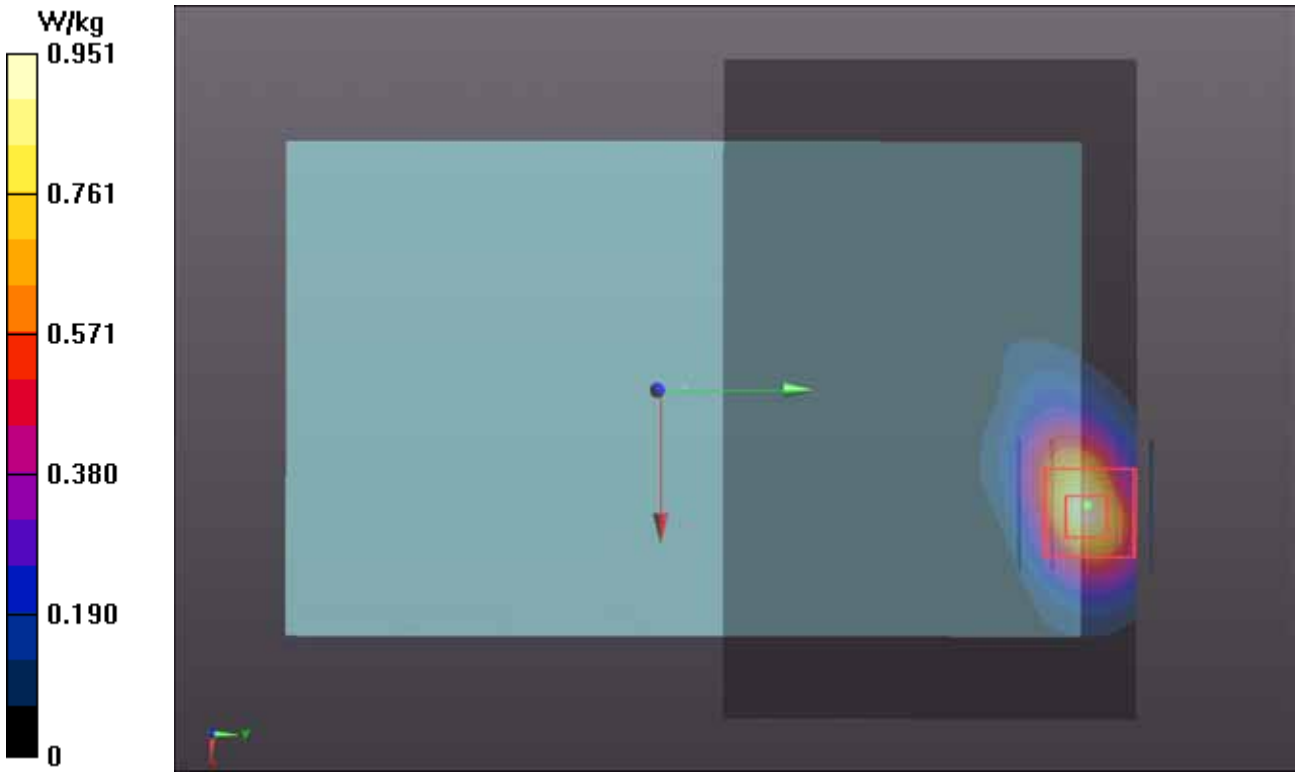
DUT: 120829C03

Communication System: WCDMA; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: B1900_0830 Medium parameters used: f = 1880 MHz; σ = 1.521 mho/m; ε_r = 52.861; ρ = 1000 kg/m^3
Ambient Temperature：21.9 ℃; Liquid Temperature：20.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(7.88, 7.88, 7.88); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch9400/Area Scan (81x51x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.951 W/kg

Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 0 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.873 mW/g
SAR(1 g) = 0.992 mW/g; SAR(10 g) = 0.458 mW/g
Maximum value of SAR (measured) = 1.42 W/kg



P27 WCDMA II_RMC12.2k_Rear Face_0cm_Ch9538_Sensor On

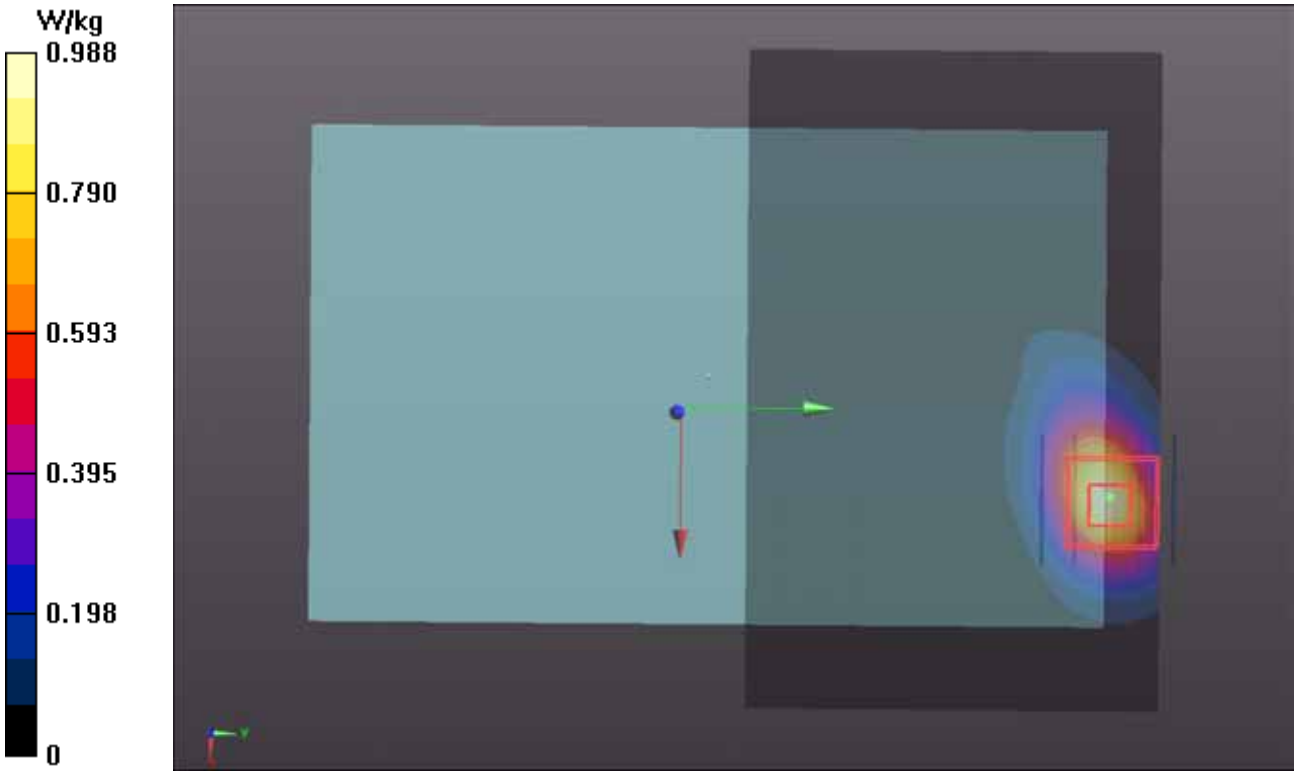
DUT: 120829C03

Communication System: WCDMA; Frequency: 1907.6 MHz;Duty Cycle: 1:1
Medium: B1900_0830 Medium parameters used: f = 1908 MHz; σ = 1.553 mho/m; ε_r = 52.796; ρ = 1000 kg/m^3
Ambient Temperature：21.9 ℃; Liquid Temperature：20.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(7.88, 7.88, 7.88); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch9538/Area Scan (81x51x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.988 W/kg

Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 0 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 2.054 mW/g
SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.498 mW/g
Maximum value of SAR (measured) = 1.59 W/kg



P28 WCDMA II_RMC12.2k_Secondary Portrait_0cm_Ch9400_Sensor On

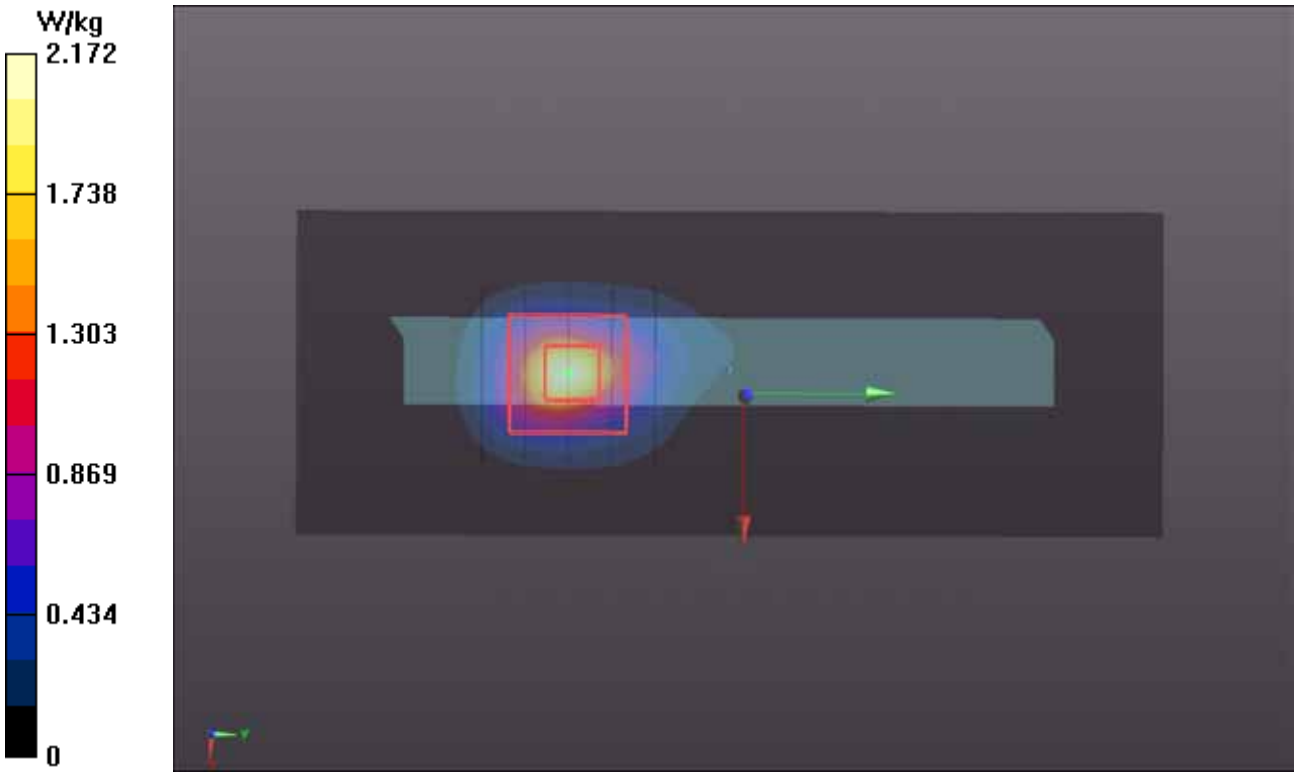
DUT: 120829C03

Communication System: WCDMA; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: B1900_0830 Medium parameters used: f = 1880 MHz; σ = 1.521 mho/m; ε_r = 52.861; ρ = 1000 kg/m^3
Ambient Temperature：21.9 ℃; Liquid Temperature：20.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(7.88, 7.88, 7.88); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch9400/Area Scan (31x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 2.17 W/kg

Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.701 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 2.574 mW/g
SAR(1 g) = 1.31 mW/g; SAR(10 g) = 0.606 mW/g
Maximum value of SAR (measured) = 1.97 W/kg



P29 WCDMA II_RMC12.2k_Secondary Portrait_0cm_Ch9538_Sensor On

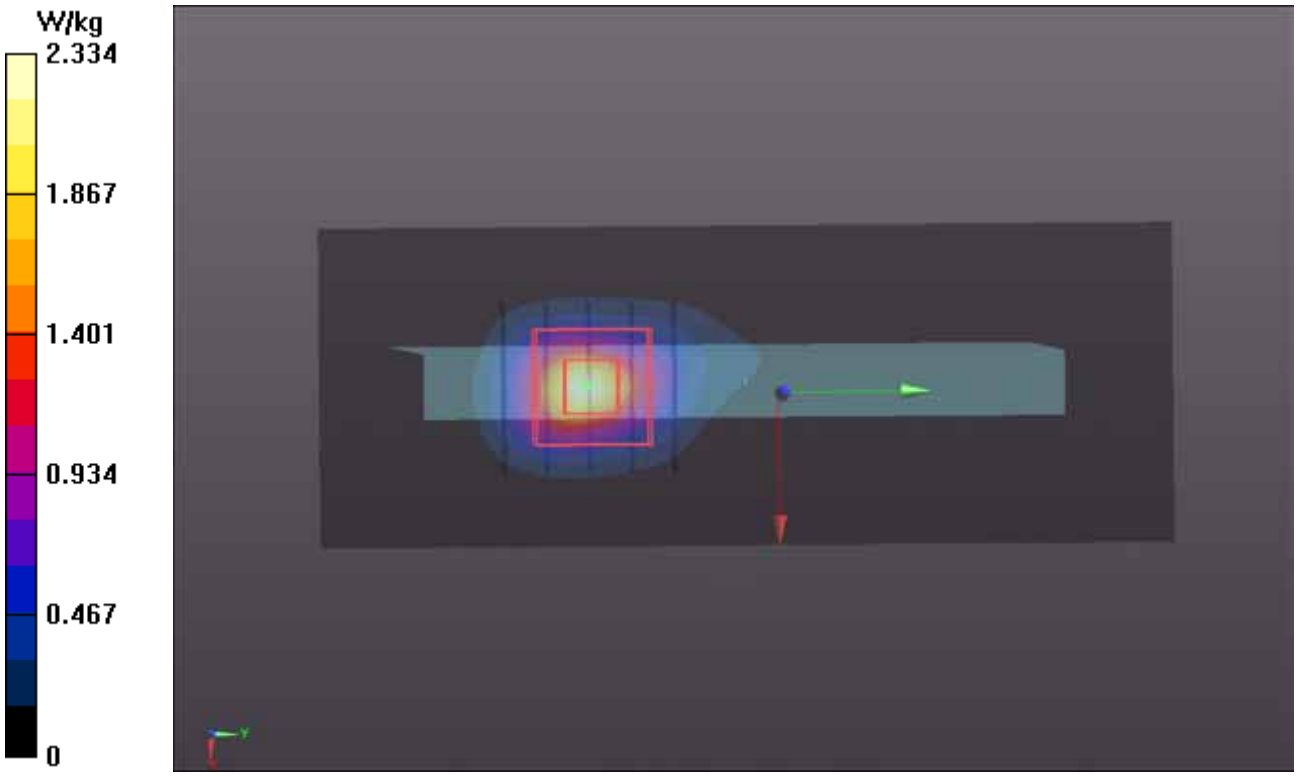
DUT: 120829C03

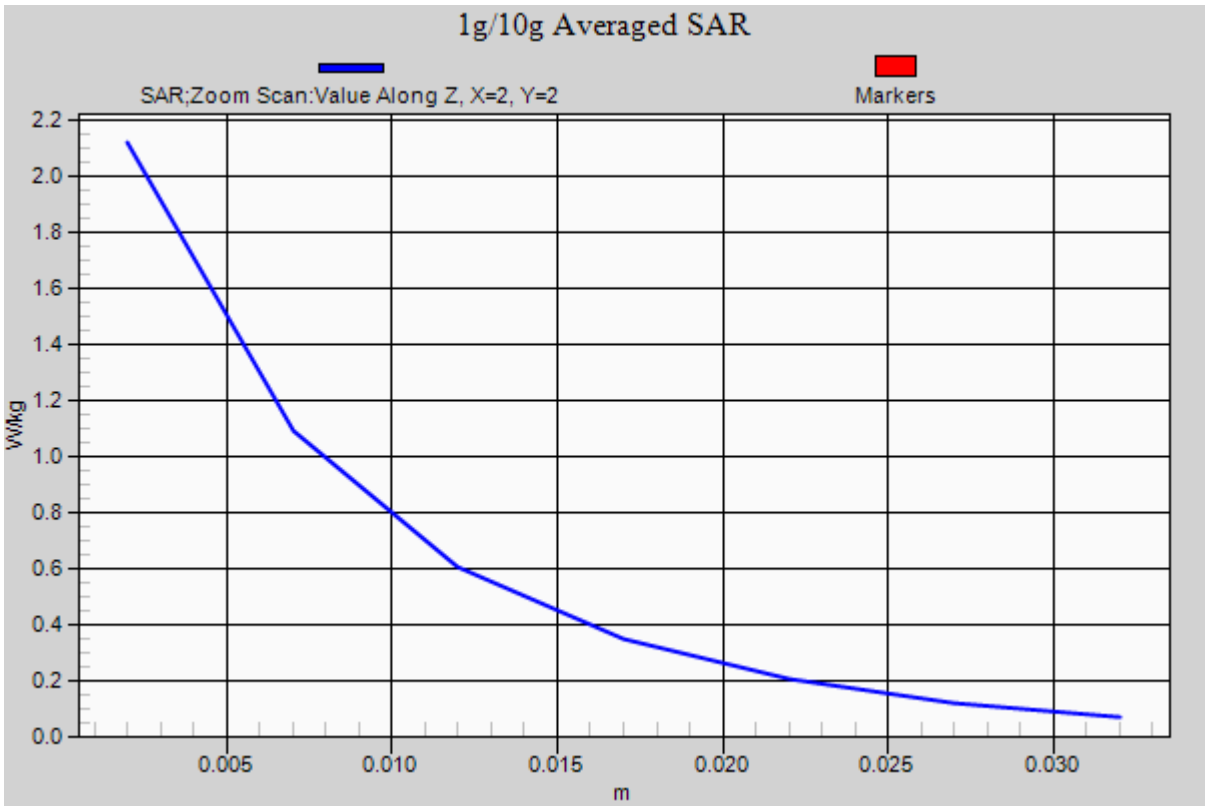
Communication System: WCDMA; Frequency: 1907.6 MHz;Duty Cycle: 1:1
Medium: B1900_0830 Medium parameters used: f = 1908 MHz; σ = 1.553 mho/m; ε_r = 52.796; ρ = 1000 kg/m^3
Ambient Temperature：21.9 ℃; Liquid Temperature：20.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(7.88, 7.88, 7.88); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch9538/Area Scan (31x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 2.33 W/kg

Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.685 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 2.795 mW/g
SAR(1 g) = 1.39 mW/g; SAR(10 g) = 0.653 mW/g
Maximum value of SAR (measured) = 2.12 W/kg




1g/10g Averaged SAR
SAR;Zoom Scan:Value Along Z, X=2, Y=2
Markers
W/kg
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0.005
0.010
0.015
0.020
0.025
0.030
m

P36 GSM850_GPRS10_Rear Face_1.4cm_Ch251_Sensor Off

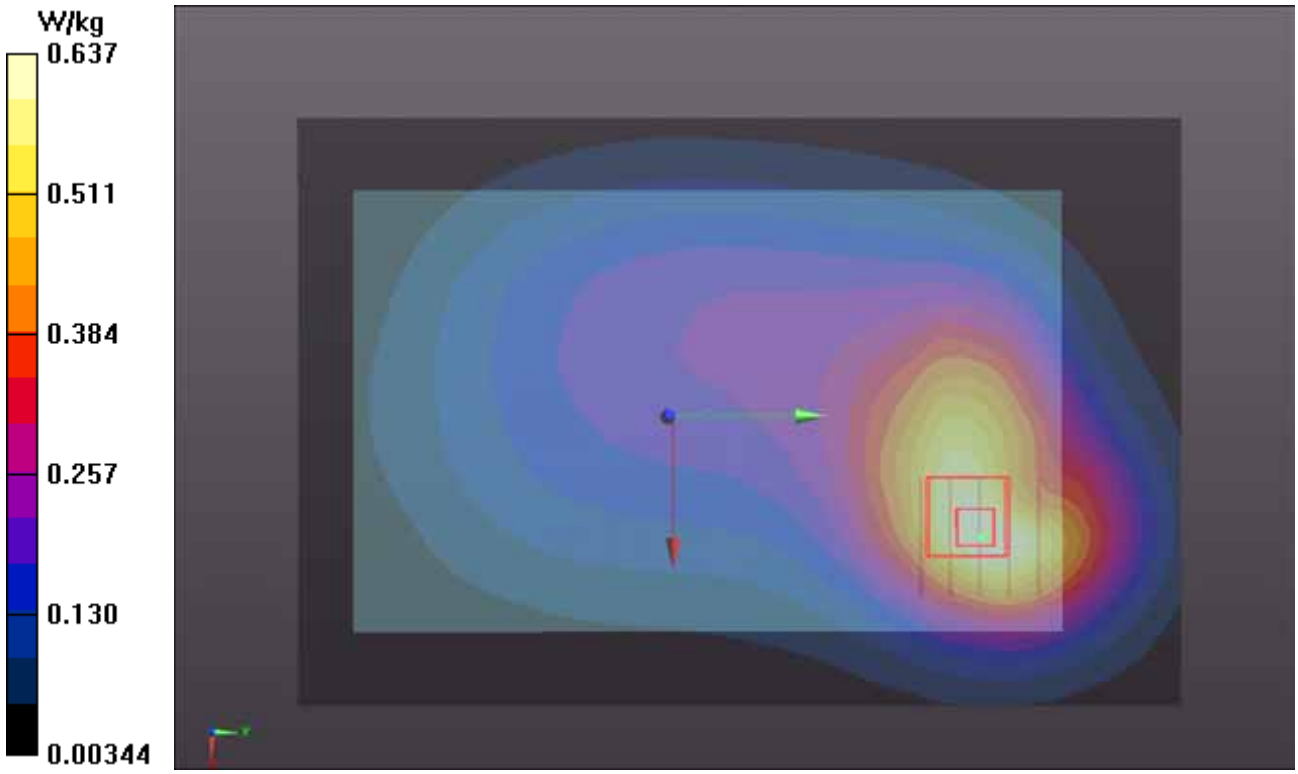
DUT: 120829C03

Communication System: GPRS10; Frequency: 848.8 MHz;Duty Cycle: 1:4.00037
Medium: B835_0904 Medium parameters used: f = 849 MHz; σ = 0.991 mho/m; ε_r = 55.513; ρ = 1000 kg/m^3
Ambient Temperature：21.5 ℃; Liquid Temperature：20.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(9.12, 9.12, 9.12); Calibrated: 2011/10/26;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2011/12/07
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch251/Area Scan (81x121x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.637 W/kg

Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.929 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.727 mW/g
SAR(1 g) = 0.505 mW/g; SAR(10 g) = 0.349 mW/g
Maximum value of SAR (measured) = 0.622 W/kg



P37 GSM850_GPRS10_Rear Face_0cm_Ch251_Sensor Off_Right 19

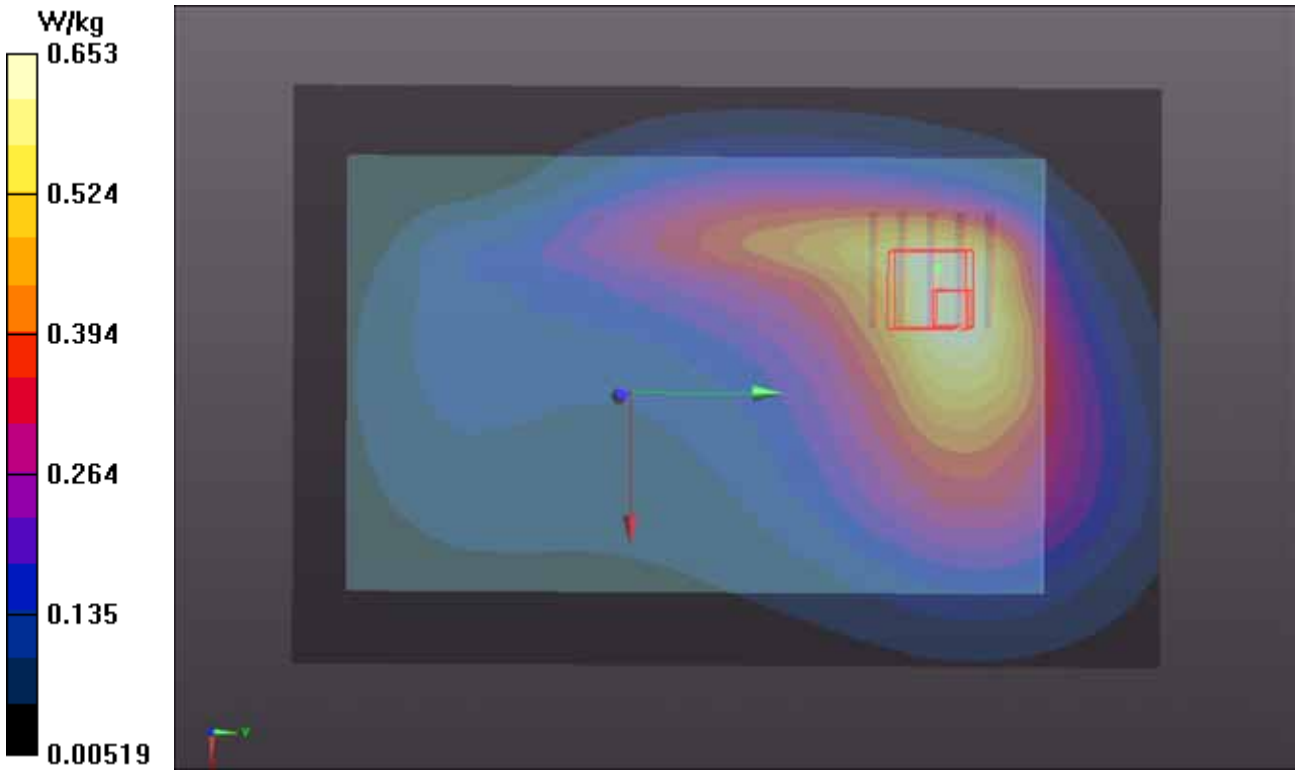
DUT: 120829C03

Communication System: GPRS10; Frequency: 848.8 MHz;Duty Cycle: 1:4.00037
Medium: B835_0904 Medium parameters used: f = 849 MHz; σ = 0.991 mho/m; ε_r = 55.513; ρ = 1000 kg/m^3
Ambient Temperature：21.5 ℃; Liquid Temperature：20.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(9.12, 9.12, 9.12); Calibrated: 2011/10/26;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2011/12/07
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch251/Area Scan (81x121x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.653 W/kg

Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.364 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.809 mW/g
SAR(1 g) = 0.559 mW/g; SAR(10 g) = 0.384 mW/g
Maximum value of SAR (measured) = 0.656 W/kg



P38 GSM850_GPRS10_Secondary Portrait_1.4cm_Ch251_Sensor Off

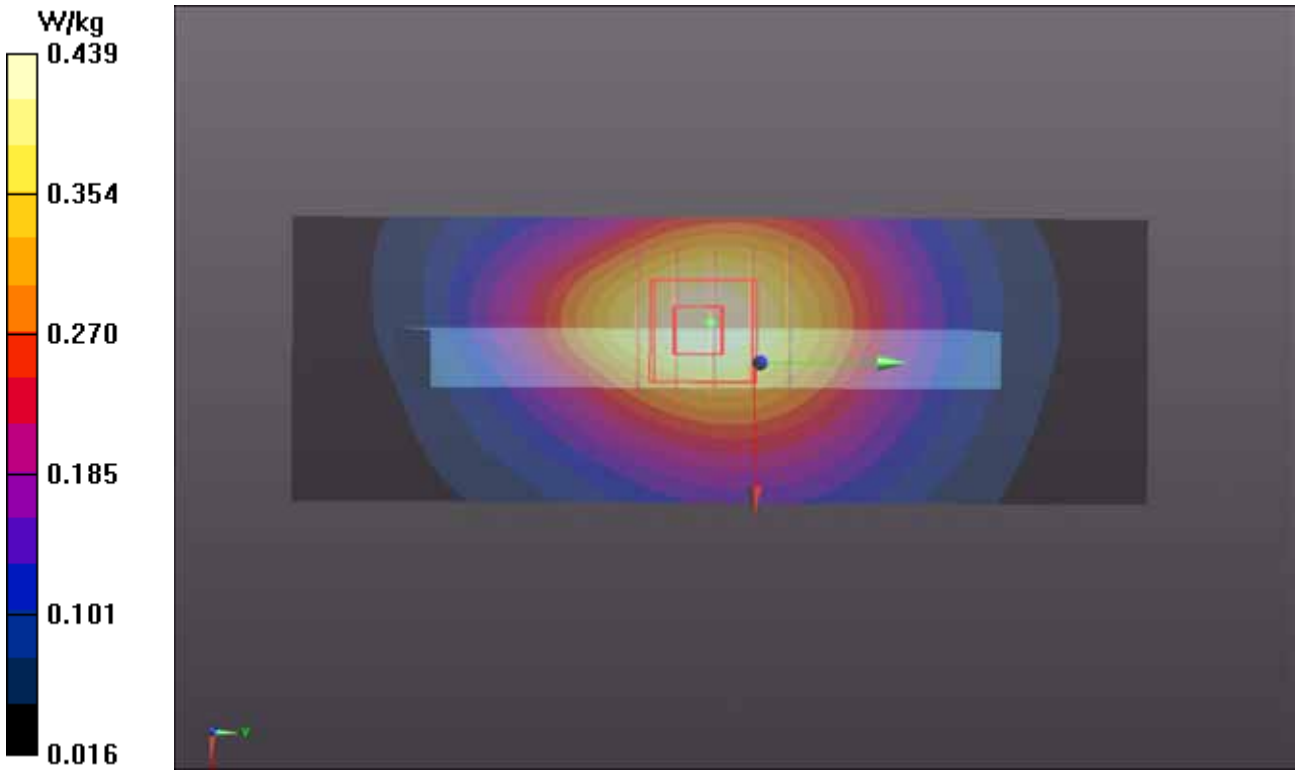
DUT: 120829C03

Communication System: GPRS10; Frequency: 848.8 MHz;Duty Cycle: 1:4.00037
Medium: B835_0904 Medium parameters used: f = 849 MHz; σ = 0.991 mho/m; ε_r = 55.513; ρ = 1000 kg/m^3
Ambient Temperature：21.5 ℃; Liquid Temperature：20.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(9.12, 9.12, 9.12); Calibrated: 2011/10/26;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2011/12/07
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch251/Area Scan (31x91x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.439 W/kg

Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.861 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.494 mW/g
SAR(1 g) = 0.371 mW/g; SAR(10 g) = 0.264 mW/g
Maximum value of SAR (measured) = 0.437 W/kg



P39 GSM850_GPRS10_Secondary Portrait_0cm_Ch251_Sensor Off_Right 19

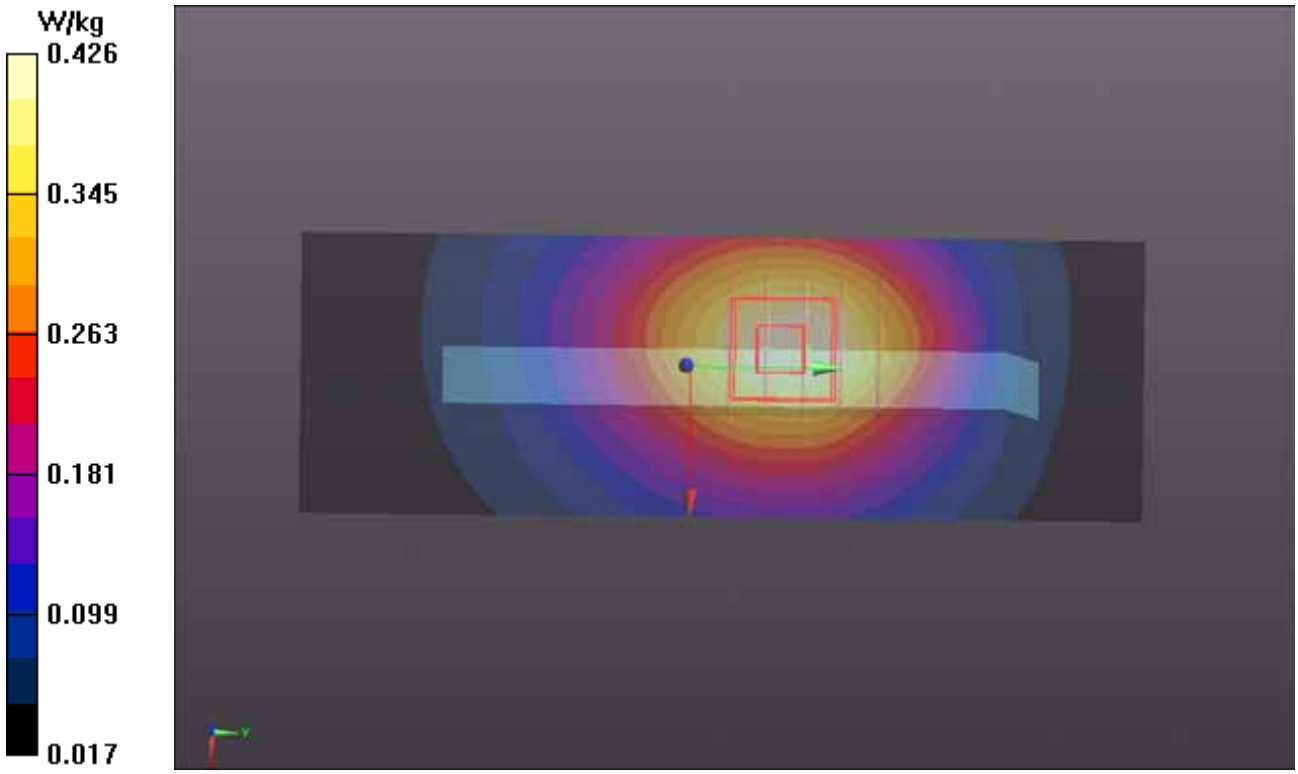
DUT: 120829C03

Communication System: GPRS10; Frequency: 848.8 MHz;Duty Cycle: 1:4.00037
Medium: B835_0904 Medium parameters used: f = 849 MHz; σ = 0.991 mho/m; ε_r = 55.513; ρ = 1000 kg/m^3
Ambient Temperature：21.5 ℃; Liquid Temperature：20.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(9.12, 9.12, 9.12); Calibrated: 2011/10/26;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2011/12/07
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch251/Area Scan (31x91x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.426 W/kg

Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 19.565 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.469 mW/g
SAR(1 g) = 0.349 mW/g; SAR(10 g) = 0.252 mW/g
Maximum value of SAR (measured) = 0.416 W/kg



P40 GSM850_GPRS10_Secondary Landscape_0cm_Ch251_Sensor Off

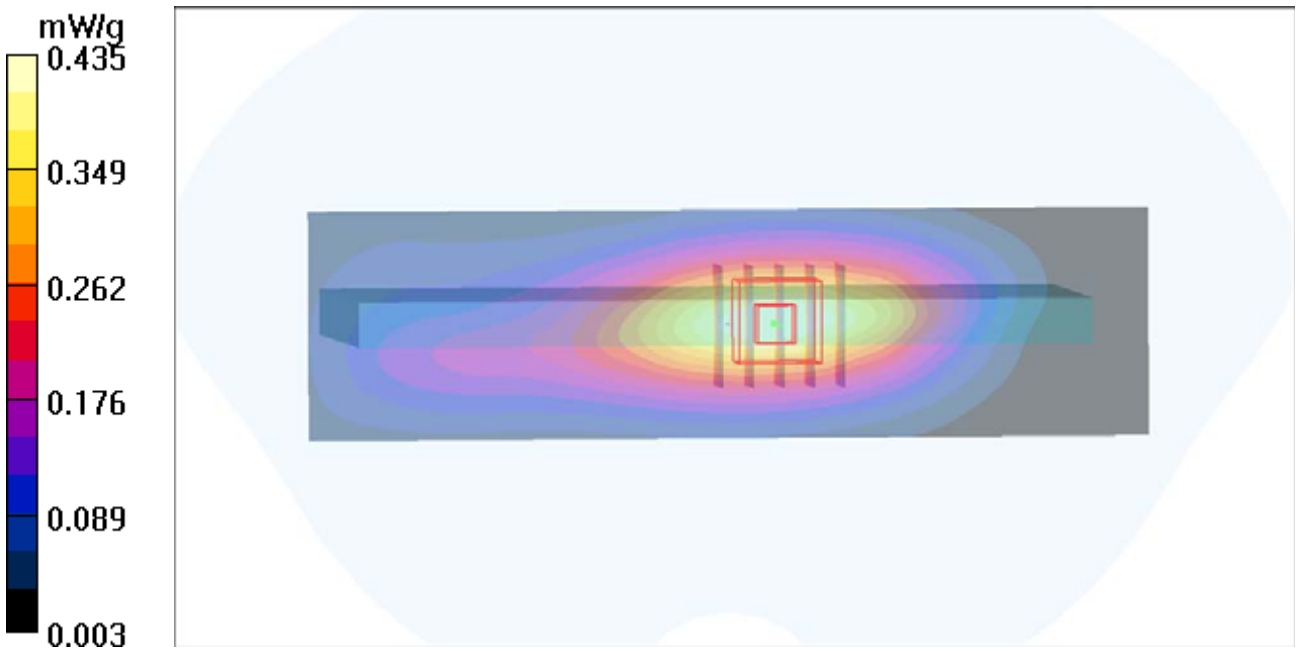
DUT: 120829C03

Communication System: GPRS10; Frequency: 848.8 MHz;Duty Cycle: 1:4
Medium: B835_0920 Medium parameters used: f = 849 MHz; σ = 1 mho/m; ε_r = 55.2; ρ = 1000 kg/m^3
Ambient Temperature：22.3 ℃； Liquid Temperature：21.4 ℃

DASY4 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(9.94, 9.94, 9.94); Calibrated: 2012/07/19
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: SAM Phantom_Left; Type: SAM V4.0; Serial: TP 1652
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch251/Area Scan (31x111x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.435 mW/g

Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.3 V/m; Power Drift = 0.009 dB
Peak SAR (extrapolated) = 0.570 W/kg
SAR(1 g) = 0.369 mW/g; SAR(10 g) = 0.240 mW/g
Maximum value of SAR (measured) = 0.477 mW/g



P41 GSM850_GPRS10_Primary Landscape_1.4cm_Ch251_Sensor Off

DUT: 120829C03

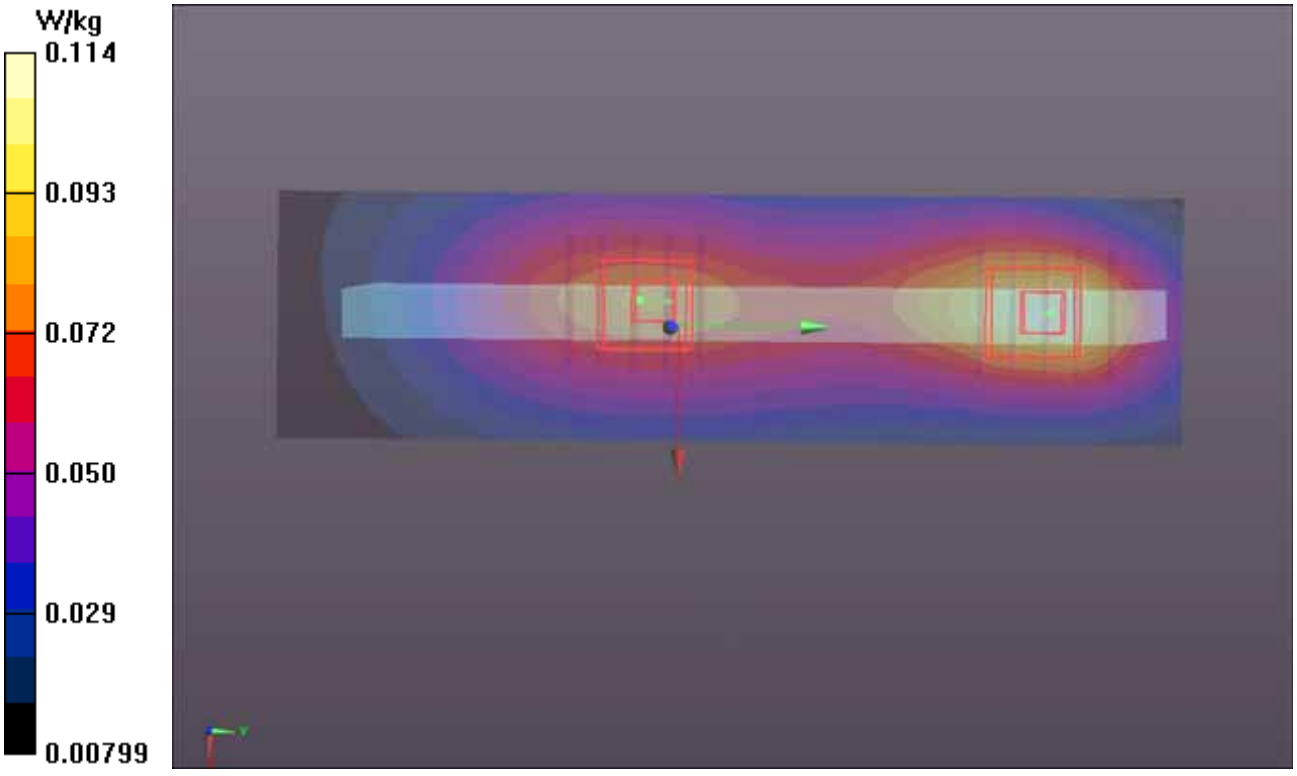
Communication System: GPRS10; Frequency: 848.8 MHz;Duty Cycle: 1:4.00037
Medium: B835_0904 Medium parameters used: f = 849 MHz; σ = 0.991 mho/m; ε_r = 55.513; ρ = 1000 kg/m^3
Ambient Temperature：21.5 ℃; Liquid Temperature：20.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(9.12, 9.12, 9.12); Calibrated: 2011/10/26;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2011/12/07
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch251/Area Scan (31x111x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.114 W/kg

Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.765 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.123 mW/g
SAR(1 g) = 0.089 mW/g; SAR(10 g) = 0.061 mW/g
Maximum value of SAR (measured) = 0.107 W/kg

Ch251/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.765 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.089 mW/g
SAR(1 g) = 0.067 mW/g; SAR(10 g) = 0.049 mW/g
Maximum value of SAR (measured) = 0.0792 W/kg



P42 GSM850_GPRS10_Primary Landscape_0cm_Ch251_Sensor Off_Left 7

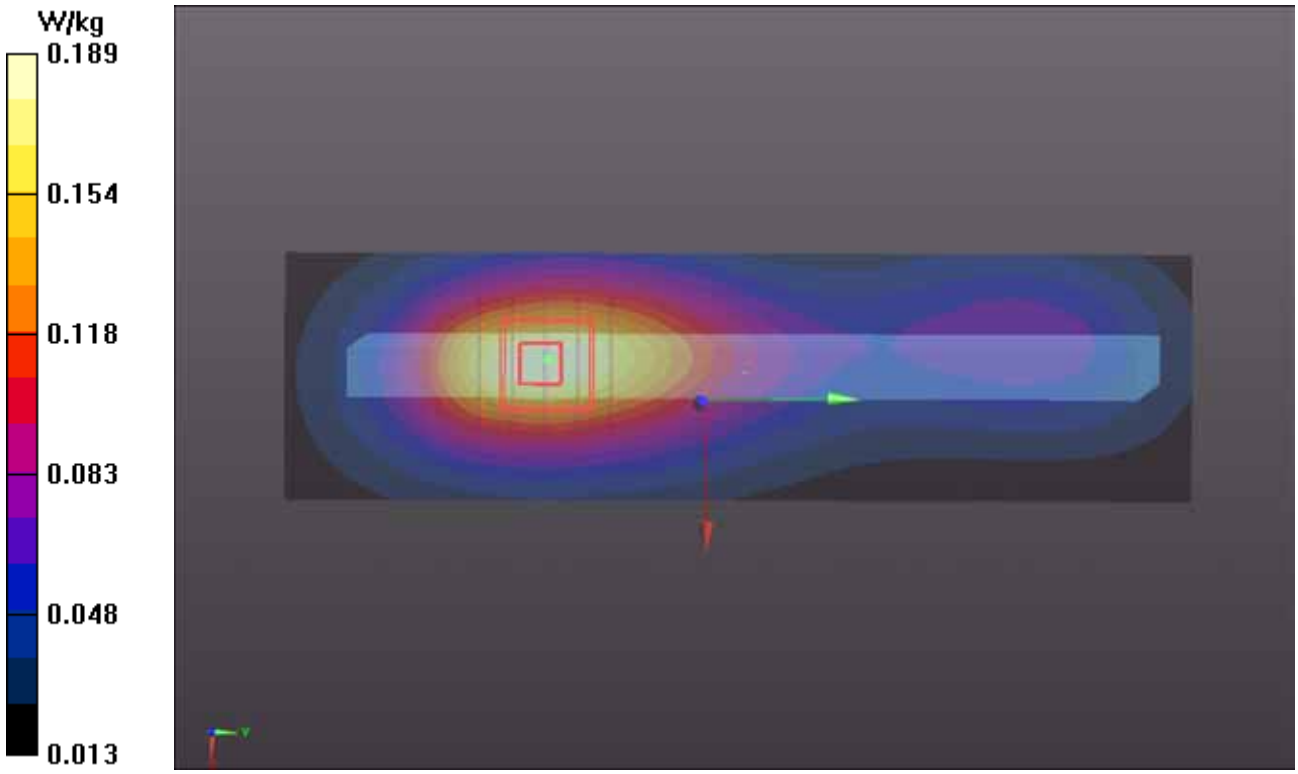
DUT: 120829C03

Communication System: GPRS10; Frequency: 848.8 MHz;Duty Cycle: 1:4.00037
Medium: B835_0904 Medium parameters used: f = 849 MHz; σ = 0.991 mho/m; ε_r = 55.513; ρ = 1000 kg/m^3
Ambient Temperature：21.5 ℃; Liquid Temperature：20.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(9.12, 9.12, 9.12); Calibrated: 2011/10/26;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2011/12/07
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch251/Area Scan (31x111x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.189 W/kg

Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.632 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.217 mW/g
SAR(1 g) = 0.151 mW/g; SAR(10 g) = 0.104 mW/g
Maximum value of SAR (measured) = 0.186 W/kg



P43 GSM1900_GPRS10_Rear Face_1.4cm_Ch512_Sensor Off

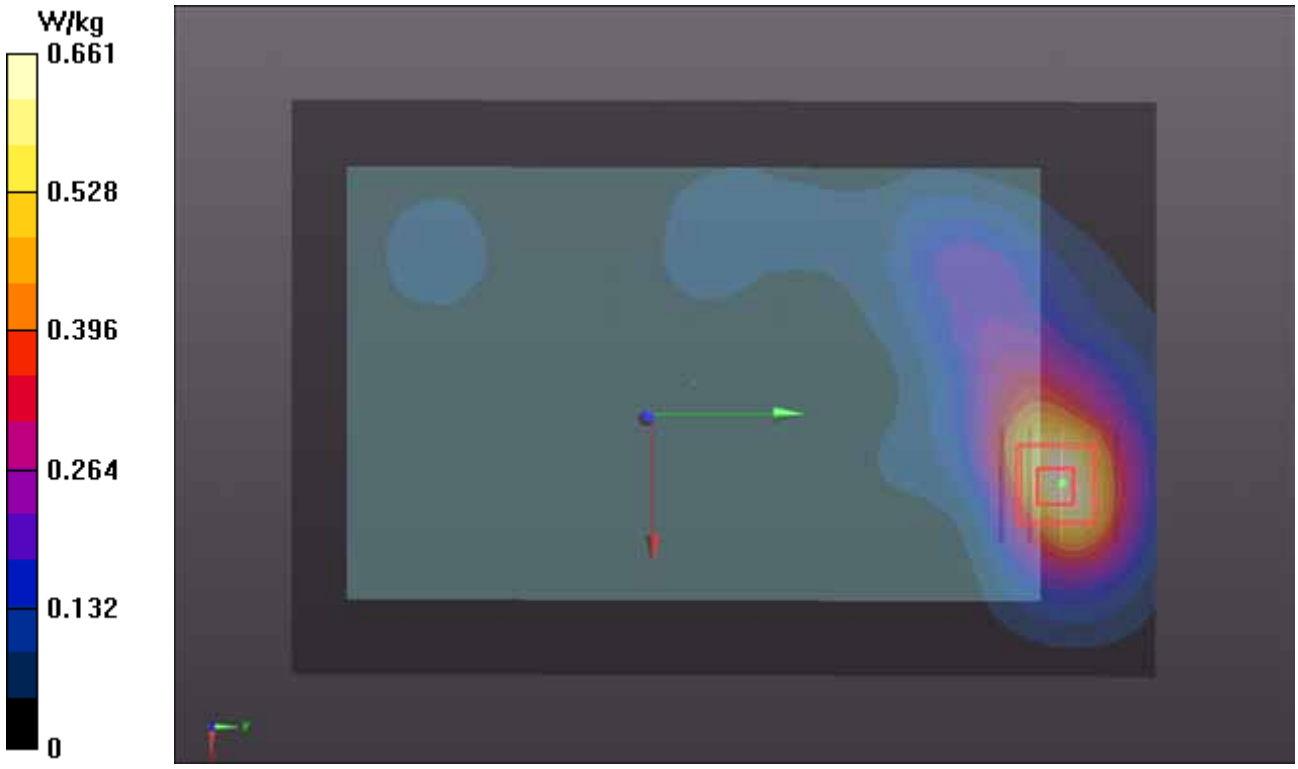
DUT: 120829C03

Communication System: GPRS10; Frequency: 1850.2 MHz;Duty Cycle: 1:4.00037
Medium: B1900_0831 Medium parameters used: f = 1850.2 MHz; σ = 1.477 mho/m; ε_r = 53.068; ρ = 1000 kg/m^3
Ambient Temperature：21.8 ℃; Liquid Temperature：20.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(7.88, 7.88, 7.88); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch512/Area Scan (81x121x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.661 W/kg

Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.782 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.999 mW/g
SAR(1 g) = 0.609 mW/g; SAR(10 g) = 0.344 mW/g
Maximum value of SAR (measured) = 0.781 W/kg



P44 GSM1900_GPRS10_Rear Face_0cm_Ch512_Sensor Off _Angle Right 19

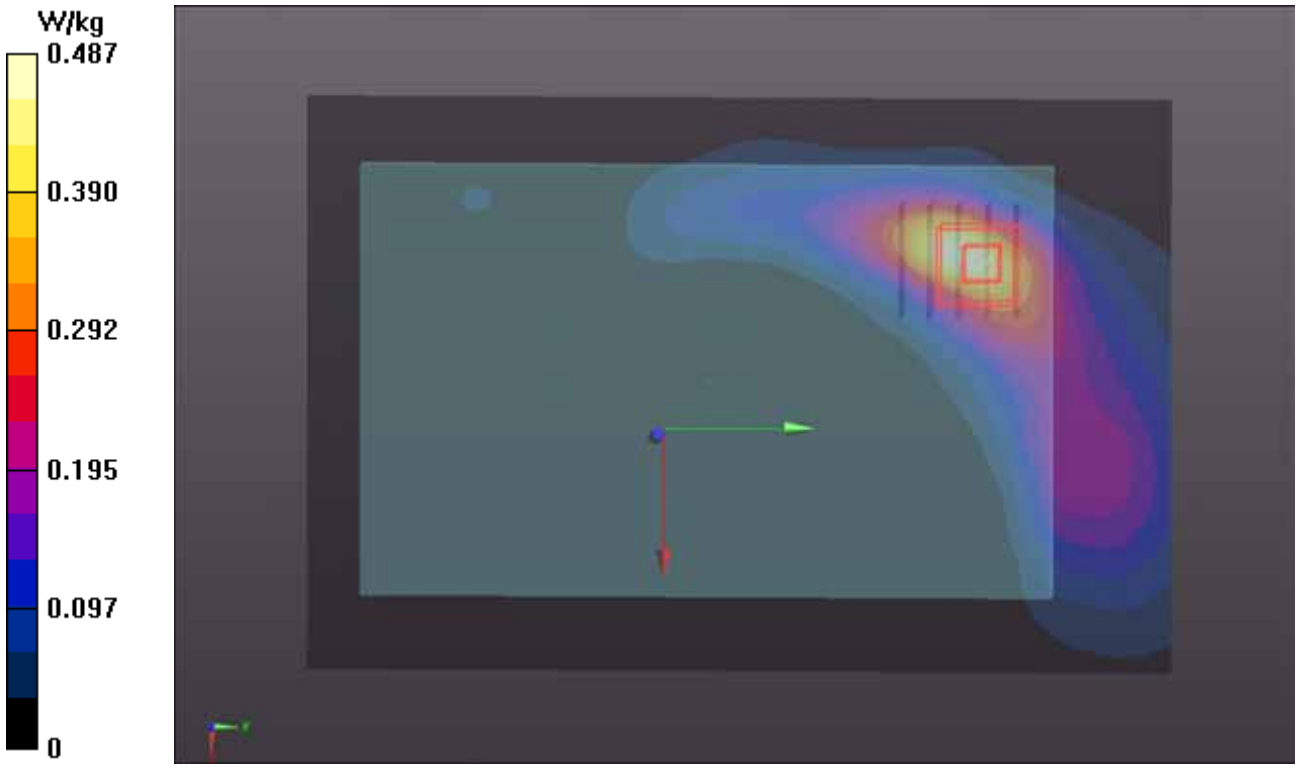
DUT: 120829C03

Communication System: GPRS10; Frequency: 1850.2 MHz;Duty Cycle: 1:4.00037
Medium: B1900_0831 Medium parameters used: f = 1850.2 MHz; σ = 1.477 mho/m; ε_r = 53.068; ρ = 1000 kg/m^3
Ambient Temperature：21.8 ℃; Liquid Temperature：20.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(7.88, 7.88, 7.88); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch512/Area Scan (81x121x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.487 W/kg

Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 0 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.637 mW/g
SAR(1 g) = 0.392 mW/g; SAR(10 g) = 0.215 mW/g
Maximum value of SAR (measured) = 0.515 W/kg



P45 GSM1900_GPRS10_Secondary Portrait_1.4cm_Ch512_Sensor Off

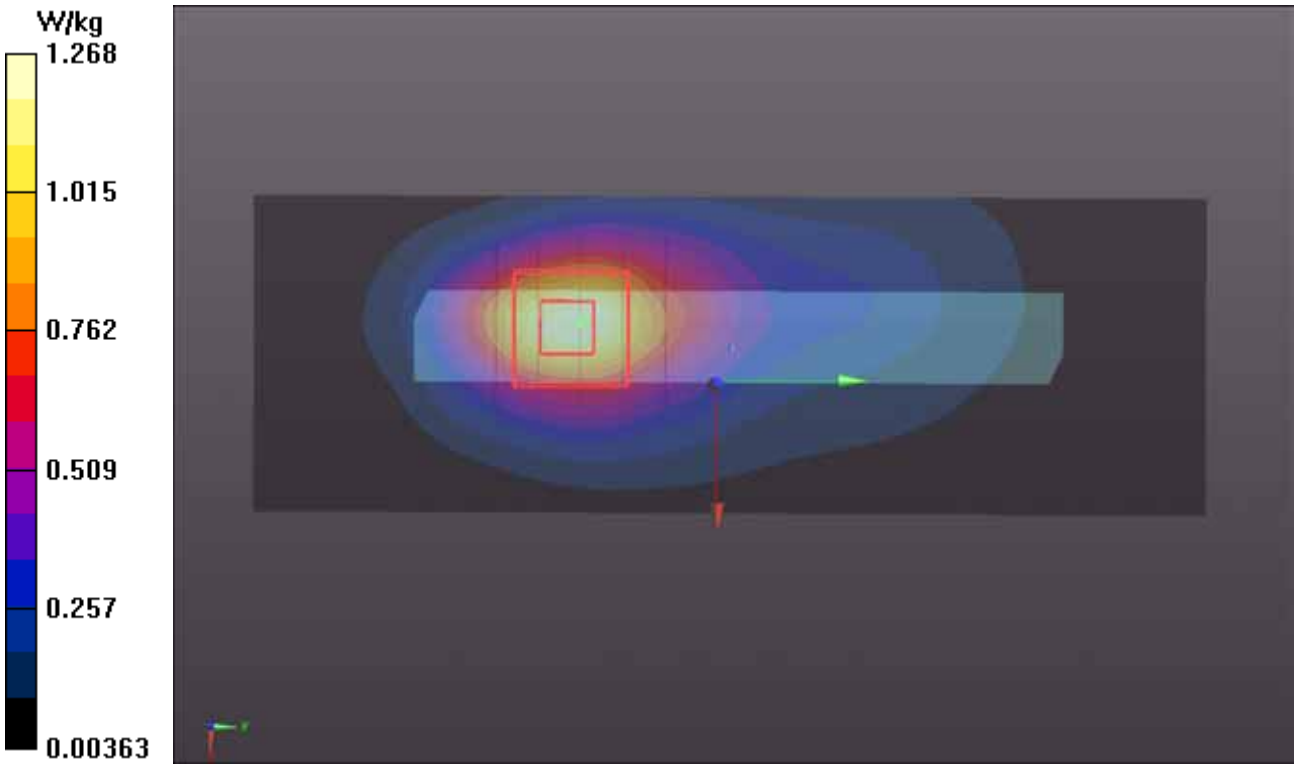
DUT: 120829C03

Communication System: GPRS10; Frequency: 1850.2 MHz;Duty Cycle: 1:4.00037
Medium: B1900_0831 Medium parameters used: f = 1850.2 MHz; σ = 1.477 mho/m; ε_r = 53.068; ρ = 1000 kg/m^3
Ambient Temperature：21.8 ℃; Liquid Temperature：20.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(7.88, 7.88, 7.88); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch512/Area Scan (31x91x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 1.27 W/kg

Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 16.719 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 1.523 mW/g
SAR(1 g) = 0.934 mW/g; SAR(10 g) = 0.531 mW/g
Maximum value of SAR (measured) = 1.24 W/kg



P46 GSM1900_GPRS10_Secondary Portrait_0cm_Ch512_Sensor Off_Angle Right 19

DUT: 120829C03

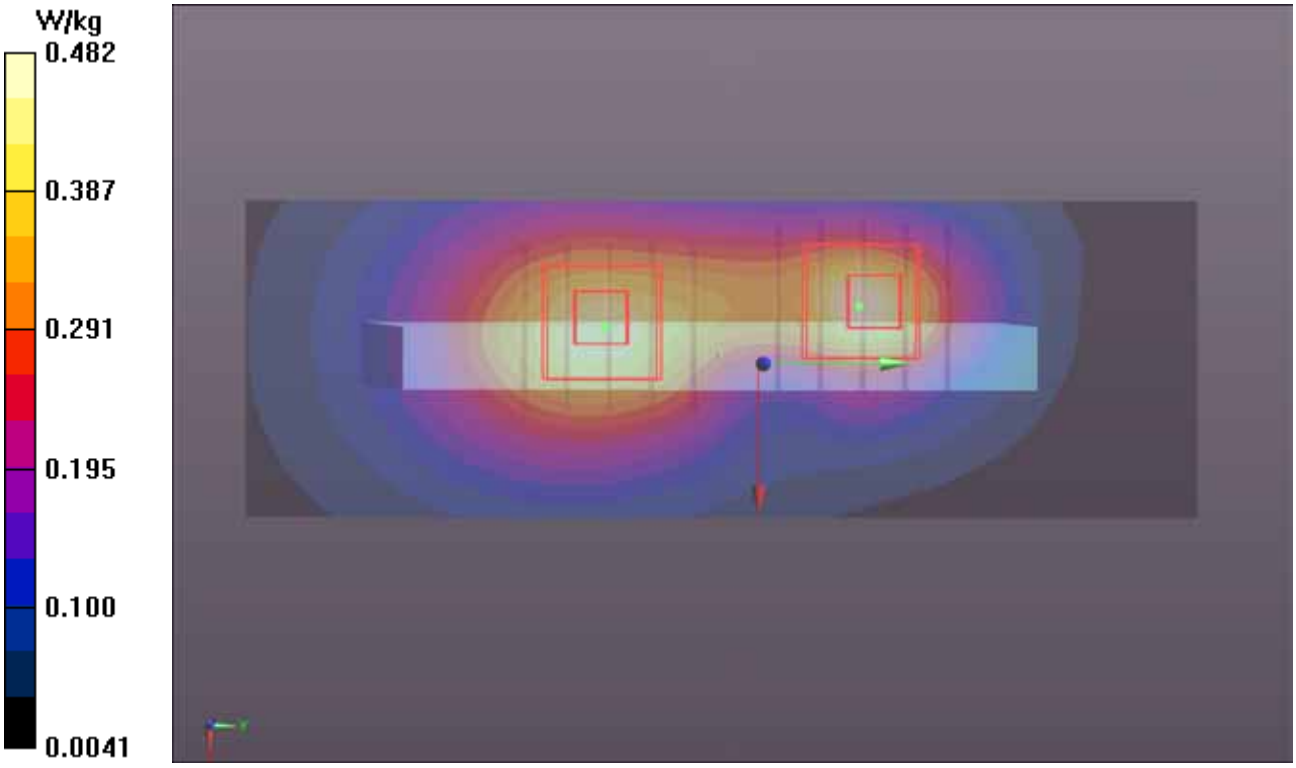
Communication System: GPRS10; Frequency: 1850.2 MHz;Duty Cycle: 1:4.00037
Medium: B1900_0831 Medium parameters used: f = 1850.2 MHz; σ = 1.477 mho/m; ε_r = 53.068; ρ = 1000 kg/m^3
Ambient Temperature：21.8 ℃; Liquid Temperature：20.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(7.88, 7.88, 7.88); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch512/Area Scan (31x91x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.482 W/kg

Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 15.099 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.600 mW/g
SAR(1 g) = 0.350 mW/g; SAR(10 g) = 0.198 mW/g
Maximum value of SAR (measured) = 0.470 W/kg

Ch512/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 15.099 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.523 mW/g
SAR(1 g) = 0.340 mW/g; SAR(10 g) = 0.211 mW/g
Maximum value of SAR (measured) = 0.438 W/kg



P47 GSM1900_GPRS10_Secondary Landscape_0cm_Ch512_Sensor Off

DUT: 120829C03

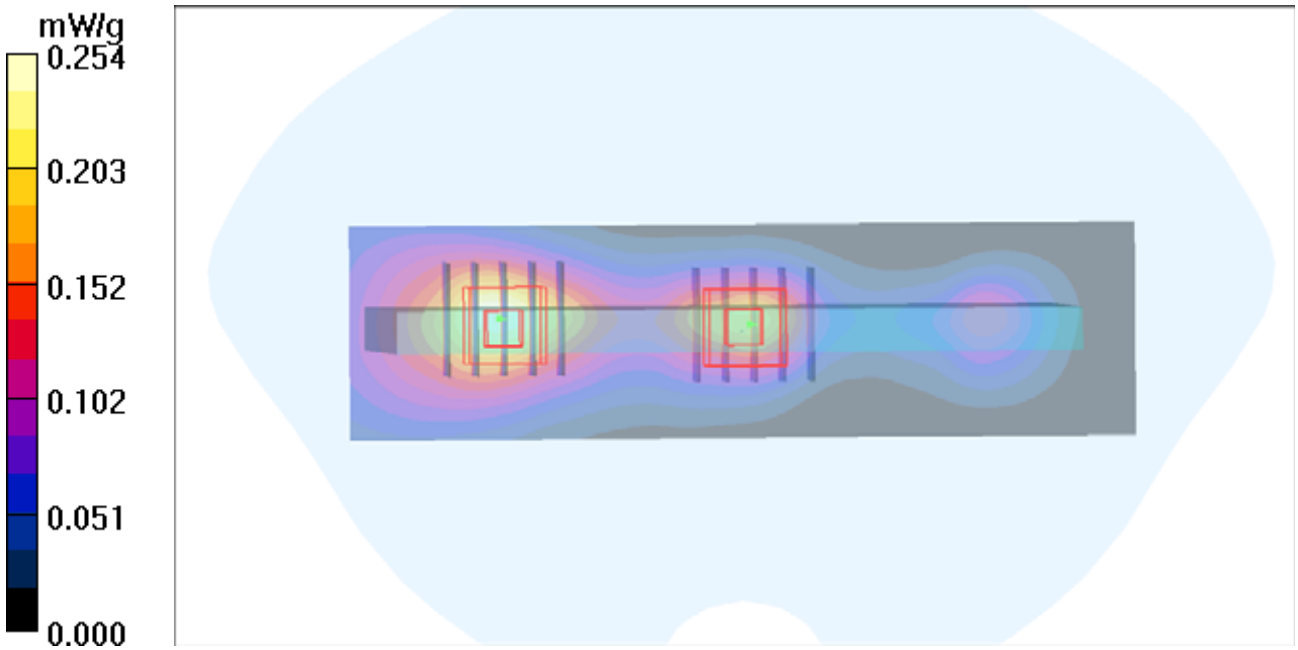
Communication System: GPRS10; Frequency: 1850.2 MHz;Duty Cycle: 1:4
Medium: B1900_0920 Medium parameters used : f = 1850.2 MHz; σ = 1.49 mho/m; ε_r = 53.2; ρ = 1000 kg/m^3
Ambient Temperature：22.5 ℃; Liquid Temperature：21.3 ℃

DASY4 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(7.88, 7.88, 7.88); Calibrated: 2012/07/19
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: SAM Phantom_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch512/Area Scan (31x111x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.254 mW/g

Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.4 V/m; Power Drift = -0.023 dB
Peak SAR (extrapolated) = 0.412 W/kg
SAR(1 g) = 0.241 mW/g; SAR(10 g) = 0.134 mW/g
Maximum value of SAR (measured) = 0.324 mW/g

Ch512/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.4 V/m; Power Drift = -0.023 dB
Peak SAR (extrapolated) = 0.368 W/kg
SAR(1 g) = 0.204 mW/g; SAR(10 g) = 0.106 mW/g
Maximum value of SAR (measured) = 0.295 mW/g



P48 GSM1900_GPRS10_Primary Landscape_1.4cm_Ch512_Sensor Off

DUT: 120829C03

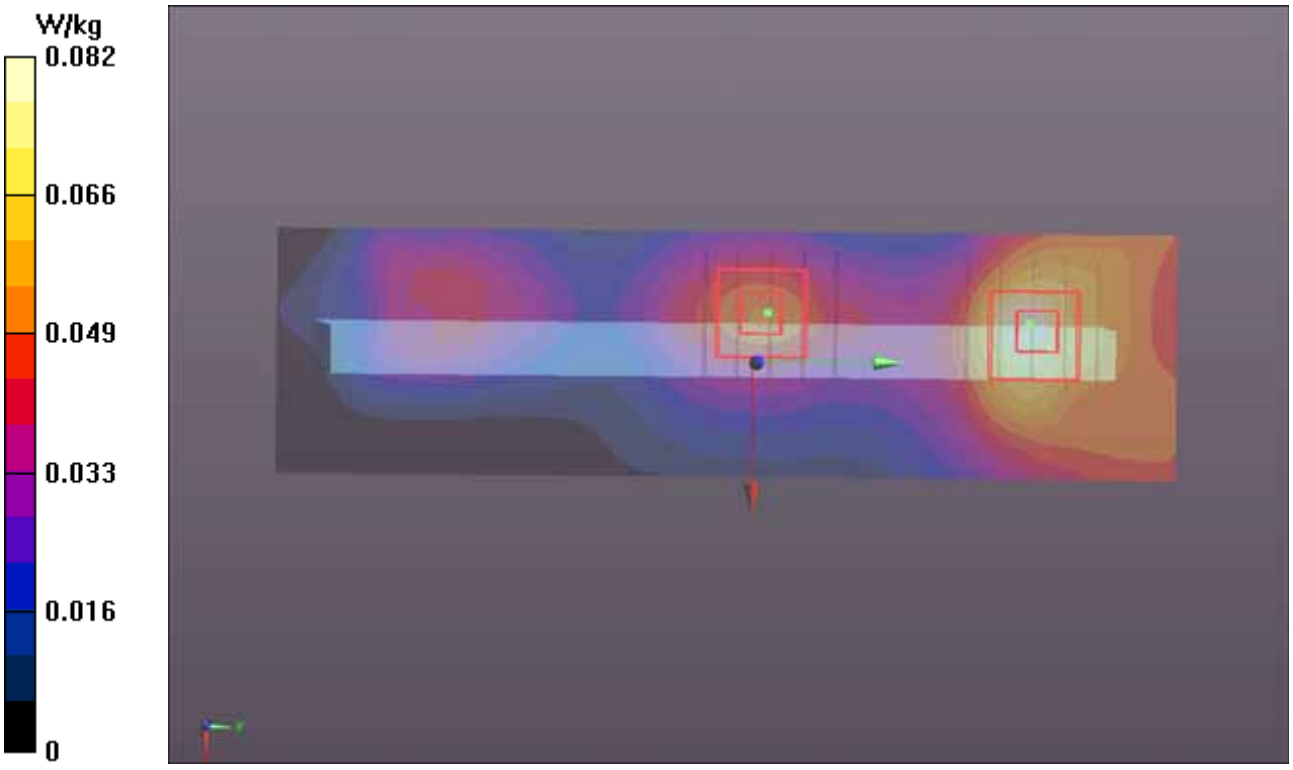
Communication System: GPRS10; Frequency: 1850.2 MHz;Duty Cycle: 1:4.00037
Medium: B1900_0831 Medium parameters used: f = 1850.2 MHz; σ = 1.477 mho/m; ε_r = 53.068; ρ = 1000 kg/m^3
Ambient Temperature：21.8 ℃; Liquid Temperature：20.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(7.88, 7.88, 7.88); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch512/Area Scan (31x111x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.0820 W/kg

Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.545 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.107 mW/g
SAR(1 g) = 0.066 mW/g; SAR(10 g) = 0.039 mW/g
Maximum value of SAR (measured) = 0.0868 W/kg

Ch512/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.545 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.067 mW/g
SAR(1 g) = 0.043 mW/g; SAR(10 g) = 0.026 mW/g
Maximum value of SAR (measured) = 0.0560 W/kg



P49 GSM1900_GPRS10_Primary Landscape_0cm_Ch512_Sensor Off_Angle Left 7

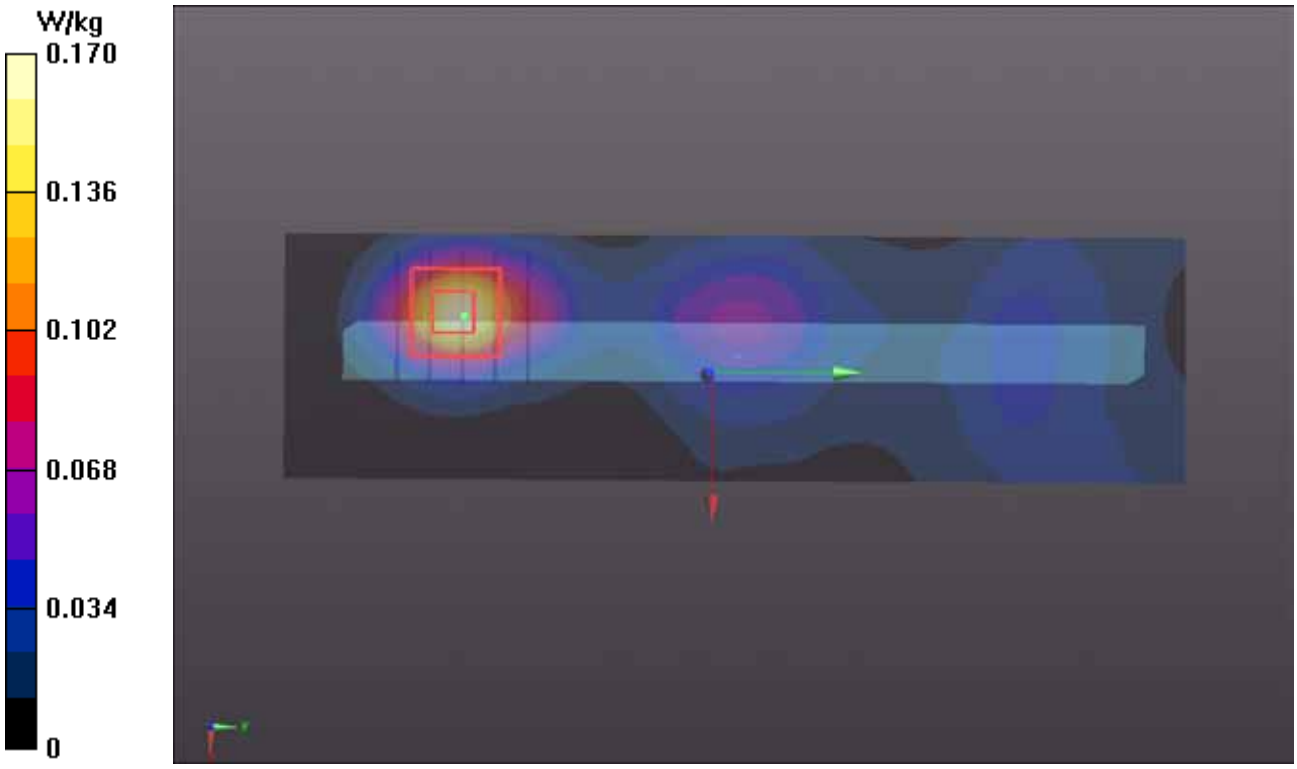
DUT: 120829C03

Communication System: GPRS10; Frequency: 1850.2 MHz;Duty Cycle: 1:4.00037
Medium: B1900_0831 Medium parameters used: f = 1850.2 MHz; σ = 1.477 mho/m; ε_r = 53.068; ρ = 1000 kg/m^3
Ambient Temperature：21.8 ℃; Liquid Temperature：20.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(7.88, 7.88, 7.88); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch512/Area Scan (31x111x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.170 W/kg

Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.297 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.197 mW/g
SAR(1 g) = 0.116 mW/g; SAR(10 g) = 0.062 mW/g
Maximum value of SAR (measured) = 0.158 W/kg



P71 GSM1900_GPRS10_Secondary Portrait_1.4cm_Ch661_Sensor Off

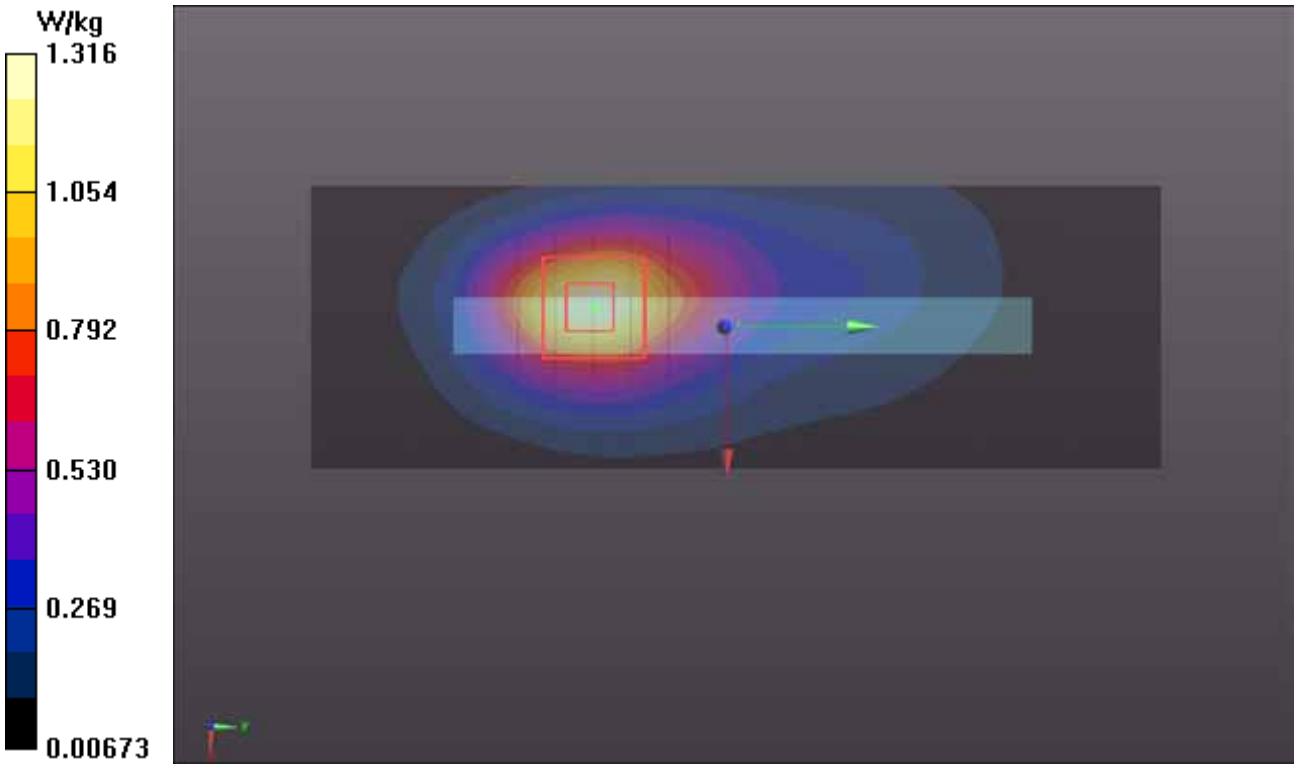
DUT: 120829C03

Communication System: GPRS10; Frequency: 1880 MHz;Duty Cycle: 1:4.00037
Medium: B1900_0831 Medium parameters used: f = 1880 MHz; σ = 1.519 mho/m; ε_r = 52.925; ρ = 1000 kg/m^3
Ambient Temperature：21.8 ℃; Liquid Temperature：20.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(7.88, 7.88, 7.88); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch661/Area Scan (31x91x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 1.32 W/kg

Ch661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17.394 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.573 mW/g
SAR(1 g) = 0.976 mW/g; SAR(10 g) = 0.560 mW/g
Maximum value of SAR (measured) = 1.30 W/kg



P72 GSM1900_GPRS10_Secondary Portrait_1.4cm_Ch810_Sensor Off

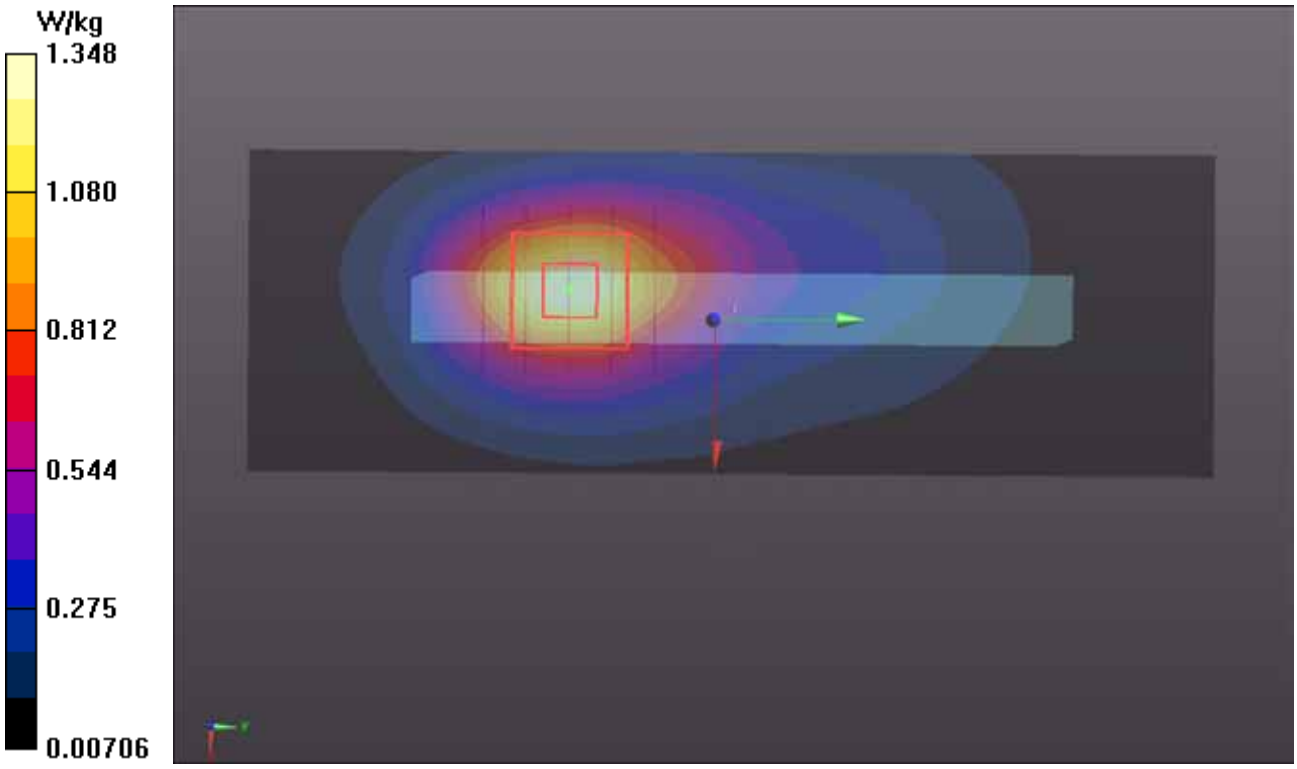
DUT: 120829C03

Communication System: GPRS10; Frequency: 1909.8 MHz;Duty Cycle: 1:4.00037
Medium: B1900_0831 Medium parameters used: f = 1910 MHz; σ = 1.553 mho/m; ε_r = 52.866; ρ = 1000 kg/m^3
Ambient Temperature：21.8 ℃; Liquid Temperature：20.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(7.88, 7.88, 7.88); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch810/Area Scan (31x91x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 1.35 W/kg

Ch810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.006 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 1.650 mW/g
SAR(1 g) = 0.999 mW/g; SAR(10 g) = 0.573 mW/g
Maximum value of SAR (measured) = 1.34 W/kg



P50 WCDMA V_RMC12.2K_Rear Face_1.4cm_Ch4132_Sensor Off

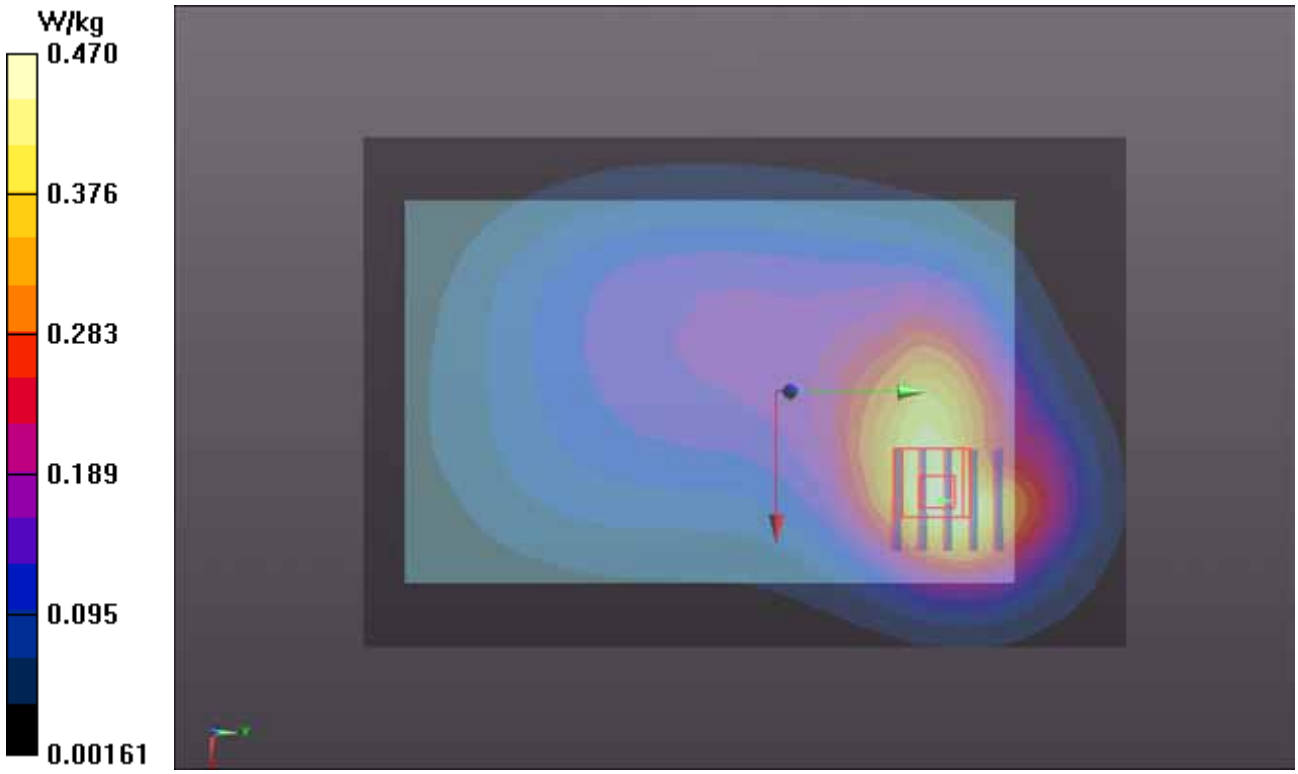
DUT: 120829C03

Communication System: WCDMA; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium: B835_0904 Medium parameters used: f = 826.4 MHz; σ = 0.969 mho/m; ε_r = 55.734; ρ = 1000 kg/m^3
Ambient Temperature：21.5 ℃; Liquid Temperature：20.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(9.12, 9.12, 9.12); Calibrated: 2011/10/26;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2011/12/07
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch4132/Area Scan (81x121x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.470 W/kg

Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.877 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.534 mW/g
SAR(1 g) = 0.368 mW/g; SAR(10 g) = 0.255 mW/g
Maximum value of SAR (measured) = 0.457 W/kg



P51 WCDMA V_RMC12.2K_Rear Face_0cm_Ch4132_Sensor Off_Right 19

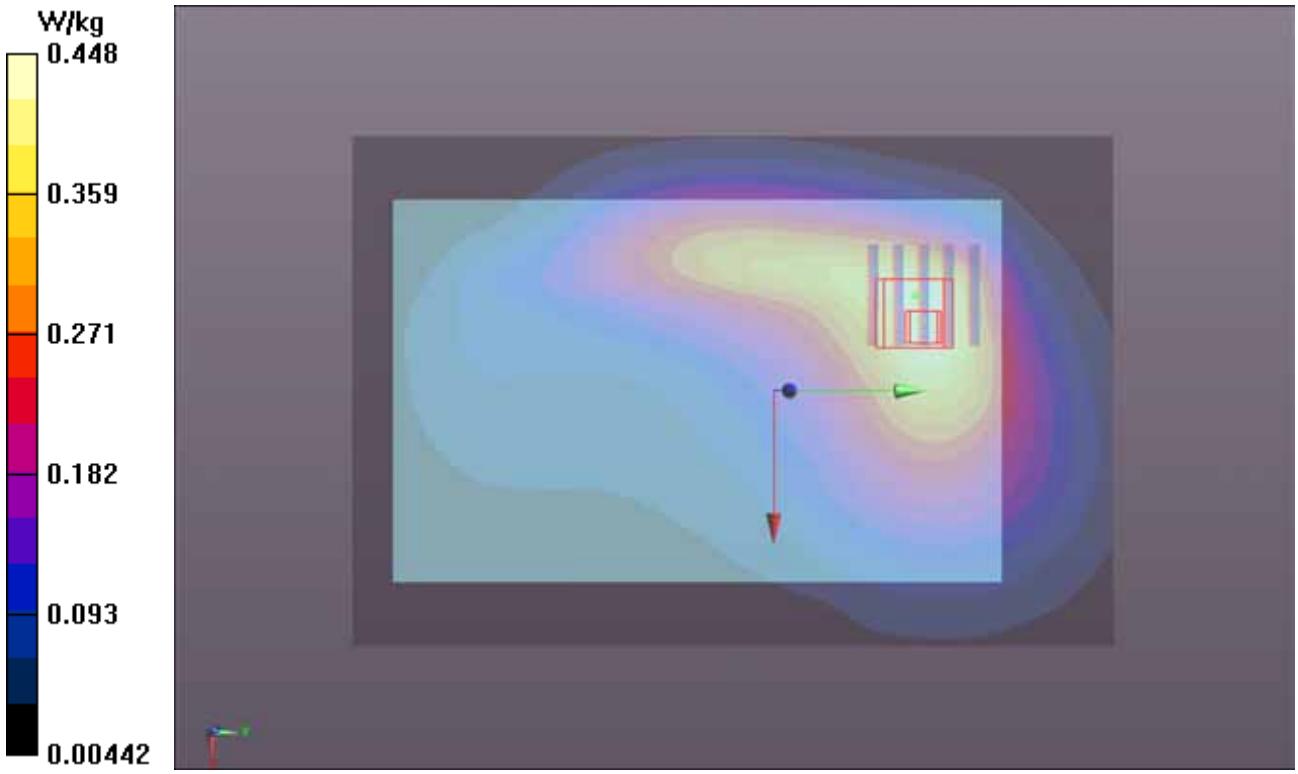
DUT: 120829C03

Communication System: WCDMA; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium: B835_0904 Medium parameters used: f = 826.4 MHz; σ = 0.969 mho/m; ε_r = 55.734; ρ = 1000 kg/m^3
Ambient Temperature：21.5 ℃; Liquid Temperature：20.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(9.12, 9.12, 9.12); Calibrated: 2011/10/26;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2011/12/07
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch4132/Area Scan (81x121x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.448 W/kg

Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.387 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.502 mW/g
SAR(1 g) = 0.370 mW/g; SAR(10 g) = 0.268 mW/g
Maximum value of SAR (measured) = 0.437 W/kg



P52 WCDMA V_RMC12.2K_Secondary Portrait_1.4cm_Ch4132_Sensor Off

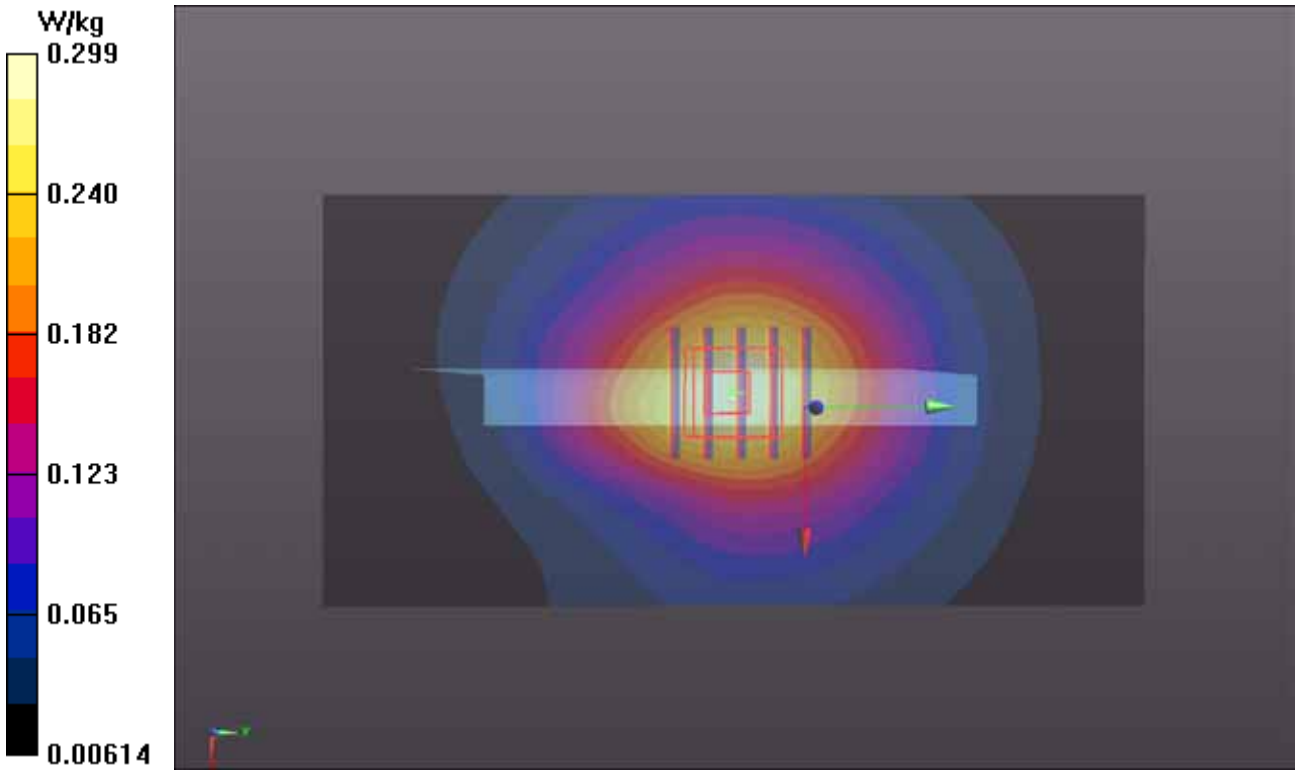
DUT: 120829C03

Communication System: WCDMA; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium: B835_0904 Medium parameters used: f = 826.4 MHz; σ = 0.969 mho/m; ε_r = 55.734; ρ = 1000 kg/m^3
Ambient Temperature：21.5 ℃; Liquid Temperature：20.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(9.12, 9.12, 9.12); Calibrated: 2011/10/26;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2011/12/07
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch4132/Area Scan (51x101x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.299 W/kg

Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.147 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.345 mW/g
SAR(1 g) = 0.257 mW/g; SAR(10 g) = 0.184 mW/g
Maximum value of SAR (measured) = 0.307 W/kg



P53 WCDMA V_RMC12.2K_Secondary Portrait_0cm_Ch4132_Sensor Off_Right 19

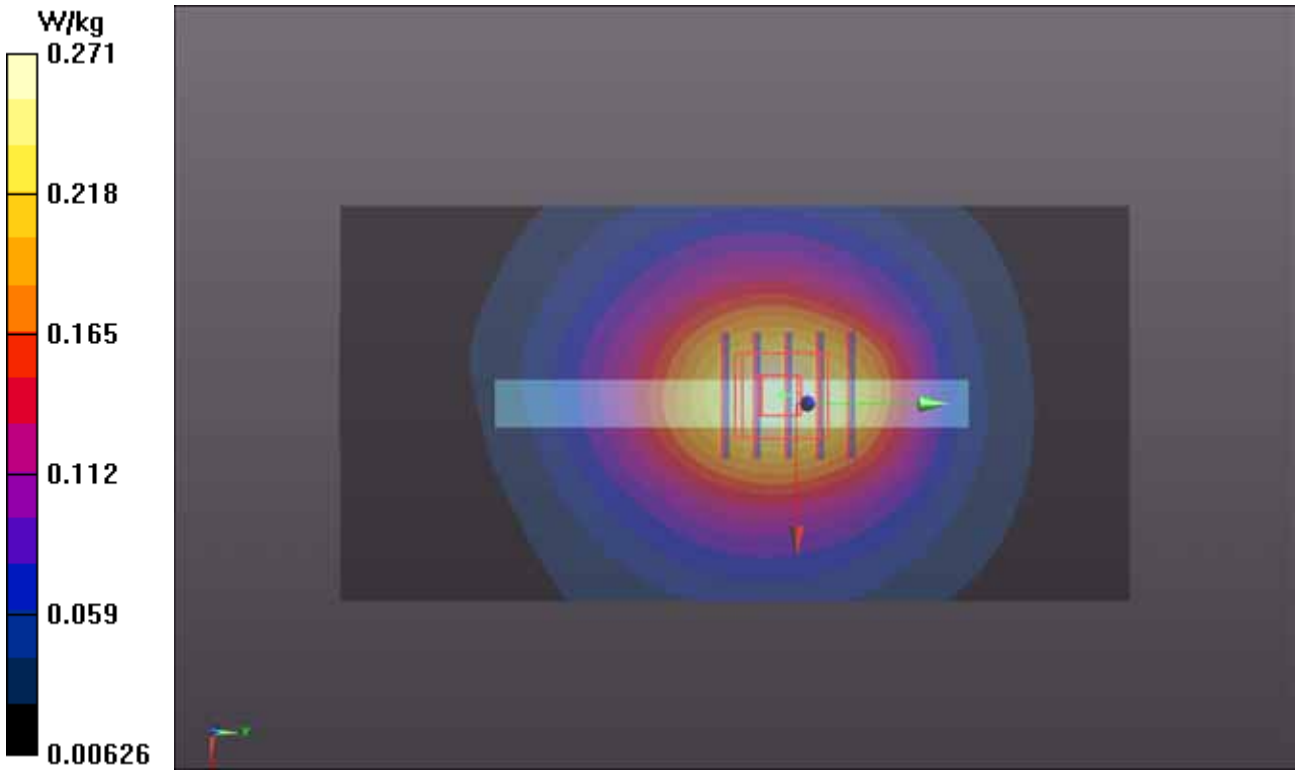
DUT: 120829C03

Communication System: WCDMA; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium: B835_0904 Medium parameters used: f = 826.4 MHz; σ = 0.969 mho/m; ε_r = 55.734; ρ = 1000 kg/m^3
Ambient Temperature：21.5 ℃; Liquid Temperature：20.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(9.12, 9.12, 9.12); Calibrated: 2011/10/26;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2011/12/07
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch4132/Area Scan (51x101x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.271 W/kg

Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 16.365 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.297 mW/g
SAR(1 g) = 0.224 mW/g; SAR(10 g) = 0.163 mW/g
Maximum value of SAR (measured) = 0.265 W/kg



P54 WCDMA V_RMC12.2k_Secondary Landscape_0cm_Ch4132_Sensor Off

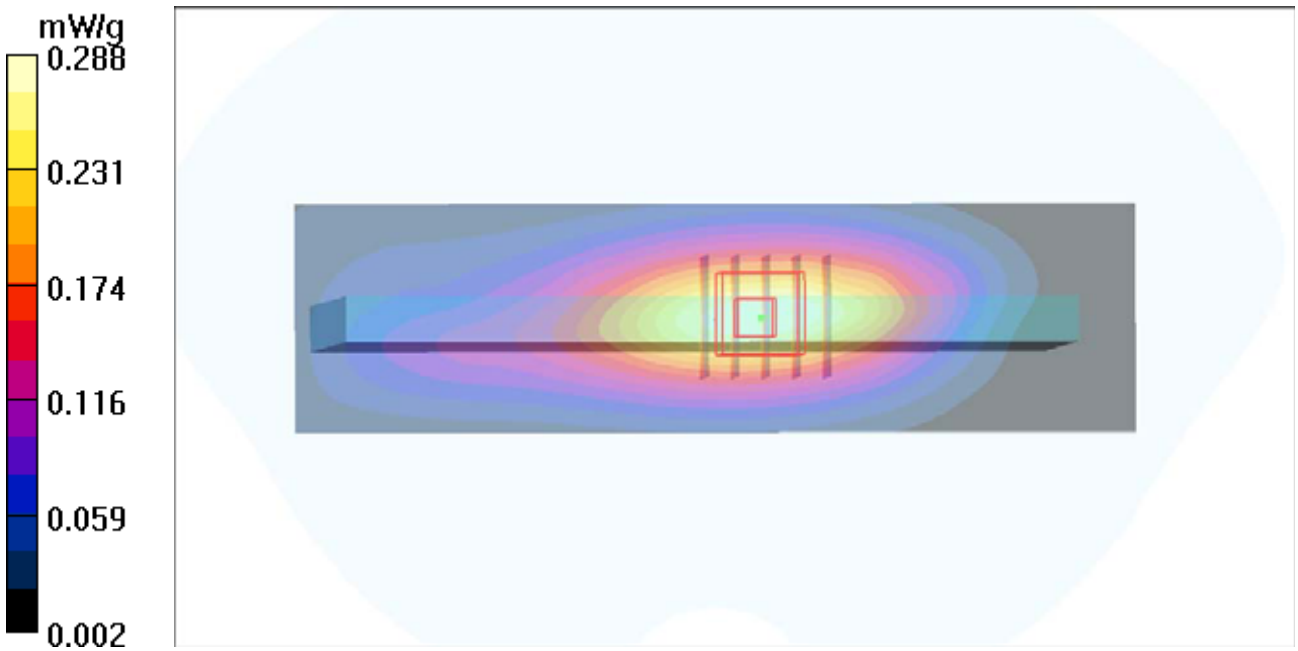
DUT: 120829C03

Communication System: WCDMA; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium: B835_0920 Medium parameters used : f = 826.4 MHz; σ = 0.983 mho/m; ε_r = 55.5; ρ = 1000 kg/m^3
Ambient Temperature：22.3 ℃; Liquid Temperature：21.4 ℃

DASY4 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(9.94, 9.94, 9.94); Calibrated: 2012/07/19
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: SAM Phantom_Left; Type: SAM V4.0; Serial: TP 1652
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch4132/Area Scan (31x111x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.288 mW/g

Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.6 V/m; Power Drift = -0.090 dB
Peak SAR (extrapolated) = 0.388 W/kg
SAR(1 g) = 0.250 mW/g; SAR(10 g) = 0.162 mW/g
Maximum value of SAR (measured) = 0.325 mW/g



P55 WCDMA V_RMC12.2K_Primary Landscape_1.4cm_Ch4132_Sensor Off

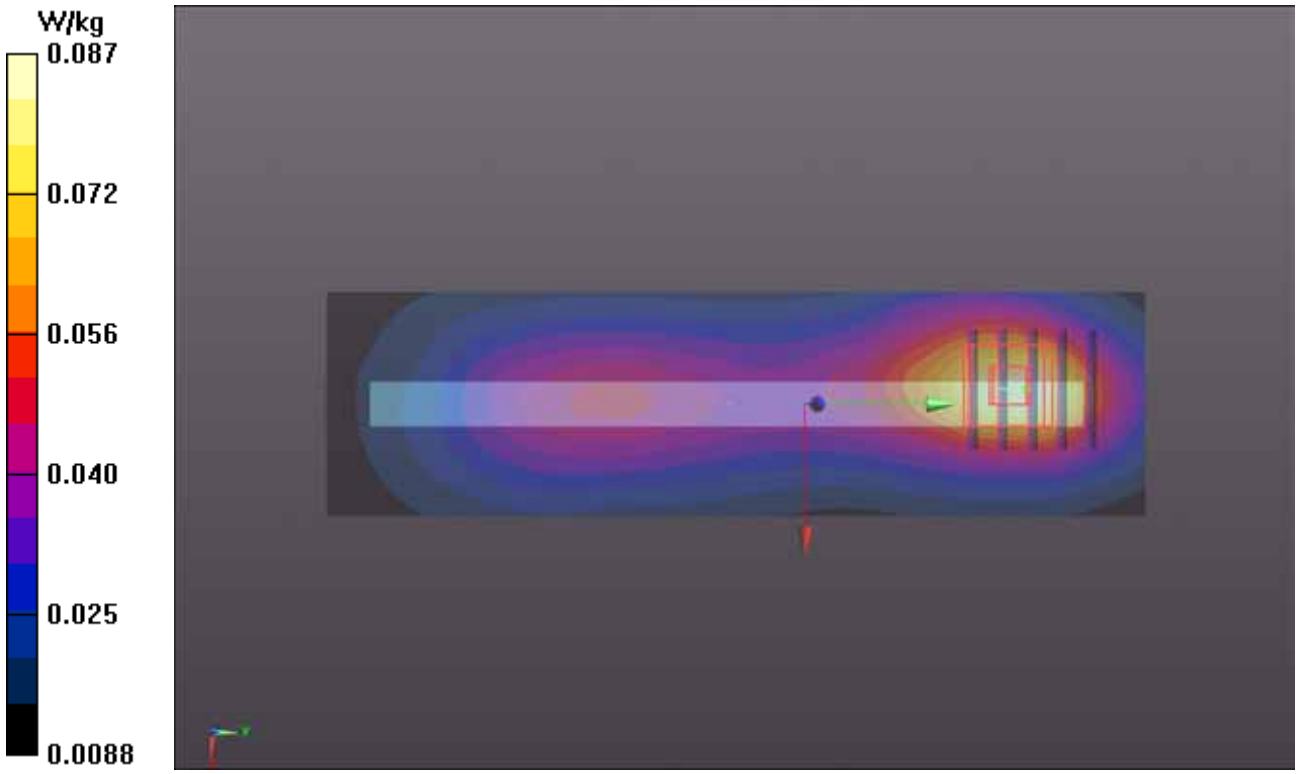
DUT: 120829C03

Communication System: WCDMA; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium: B835_0904 Medium parameters used: f = 826.4 MHz; σ = 0.969 mho/m; ε_r = 55.734; ρ = 1000 kg/m^3
Ambient Temperature：21.5 ℃; Liquid Temperature：20.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(9.12, 9.12, 9.12); Calibrated: 2011/10/26;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2011/12/07
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch4132/Area Scan (31x111x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.0875 W/kg

Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.538 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 0.093 mW/g
SAR(1 g) = 0.067 mW/g; SAR(10 g) = 0.046 mW/g
Maximum value of SAR (measured) = 0.0806 W/kg



P56 WCDMA V_RMC12.2K_Primary Landscape_0cm_Ch4132_Sensor Off_Left 7

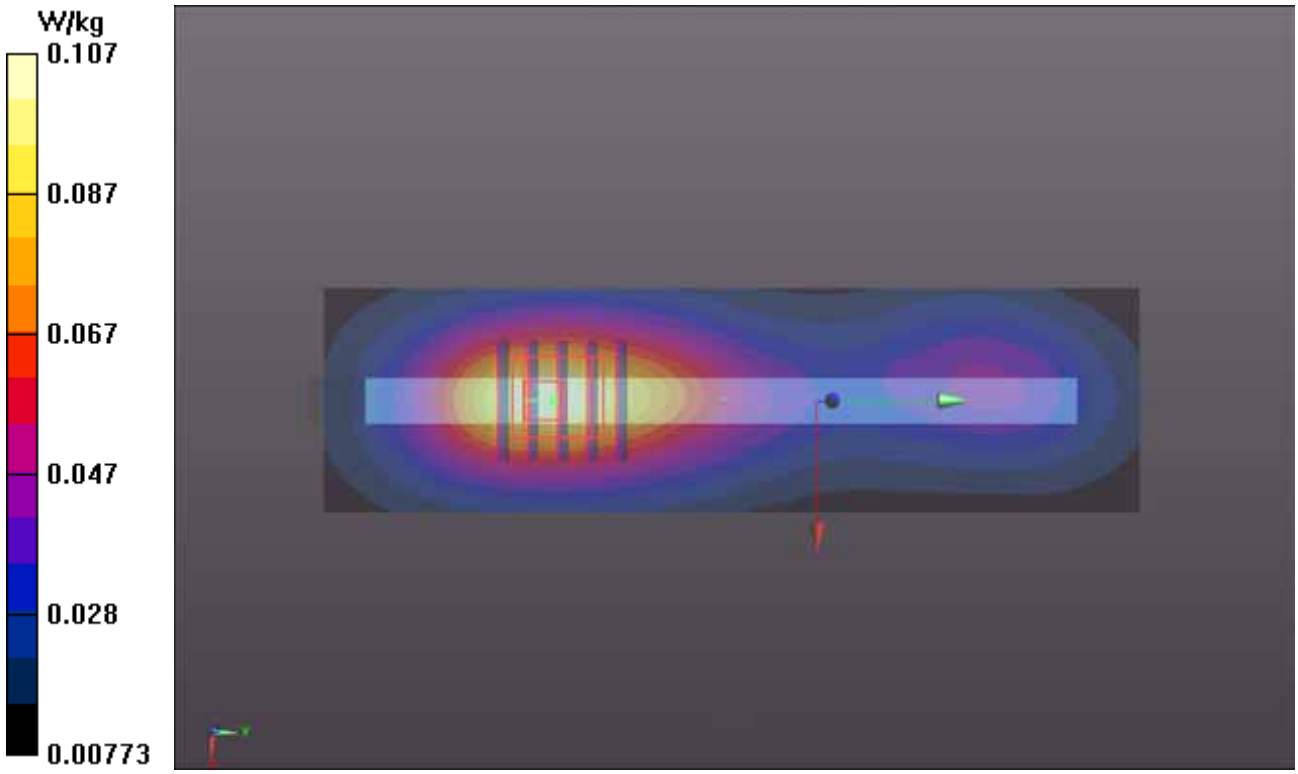
DUT: 120829C03

Communication System: WCDMA; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium: B835_0904 Medium parameters used: f = 826.4 MHz; σ = 0.969 mho/m; ε_r = 55.734; ρ = 1000 kg/m^3
Ambient Temperature：21.5 ℃; Liquid Temperature：20.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(9.12, 9.12, 9.12); Calibrated: 2011/10/26;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2011/12/07
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch4132/Area Scan (31x111x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.107 W/kg

Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.297 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.123 mW/g
SAR(1 g) = 0.085 mW/g; SAR(10 g) = 0.059 mW/g
Maximum value of SAR (measured) = 0.105 W/kg



P57 WCDMA IV_RMC12.2k_Rear Face_1.4cm_Ch1312_Sensor Off

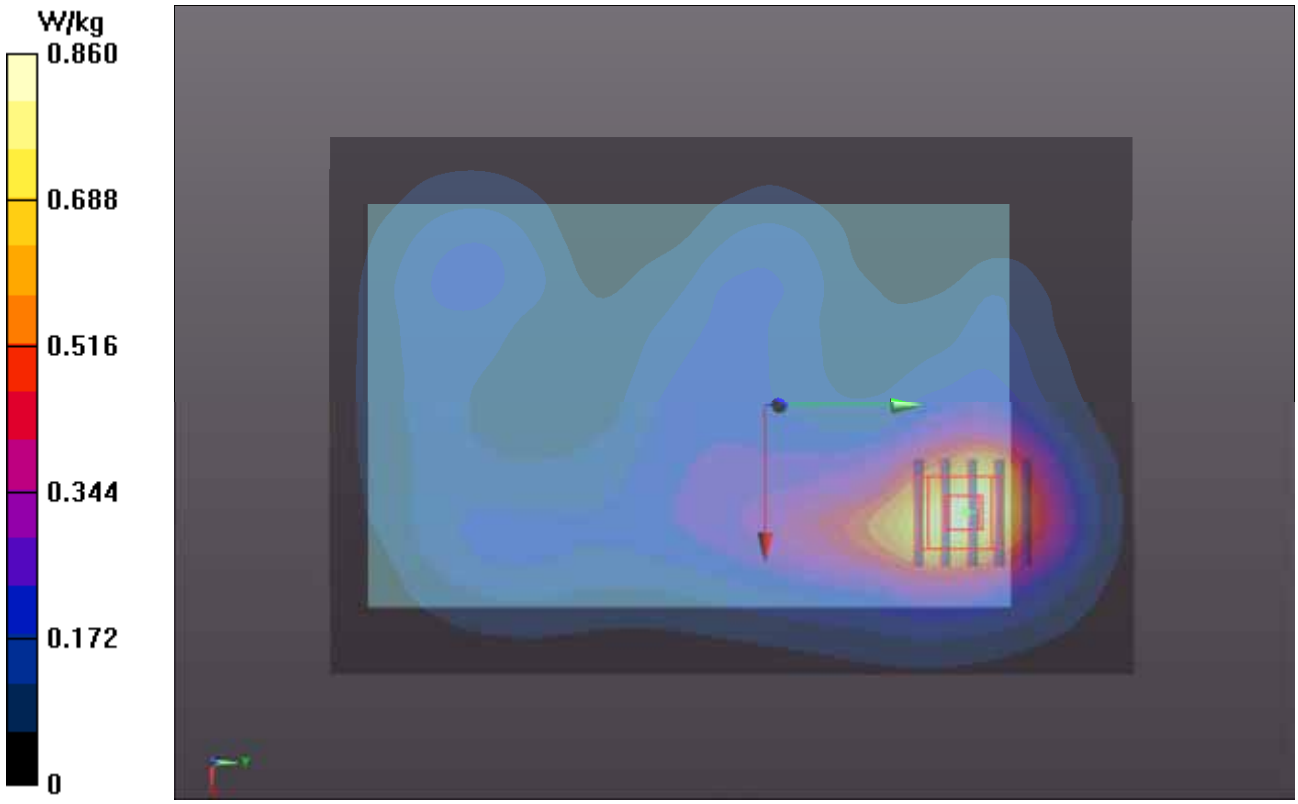
DUT: 120829C03

Communication System: WCDMA; Frequency: 1712.4 MHz;Duty Cycle: 1:1
Medium: B1750_0831 Medium parameters used: f = 1712.4 MHz; σ = 1.429 mho/m; ε_r = 53.912; ρ = 1000 kg/m^3
Ambient Temperature：21.5 ℃; Liquid Temperature：20.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(8.45, 8.45, 8.45); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch1312/Area Scan (81x121x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.860 W/kg

Ch1312/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.477 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.039 mW/g
SAR(1 g) = 0.672 mW/g; SAR(10 g) = 0.420 mW/g
Maximum value of SAR (measured) = 0.872 W/kg



P58 WCDMA IV_RMC12.2k_Rear Face_0cm_Ch1312_Sensor Off_Angle Right 19

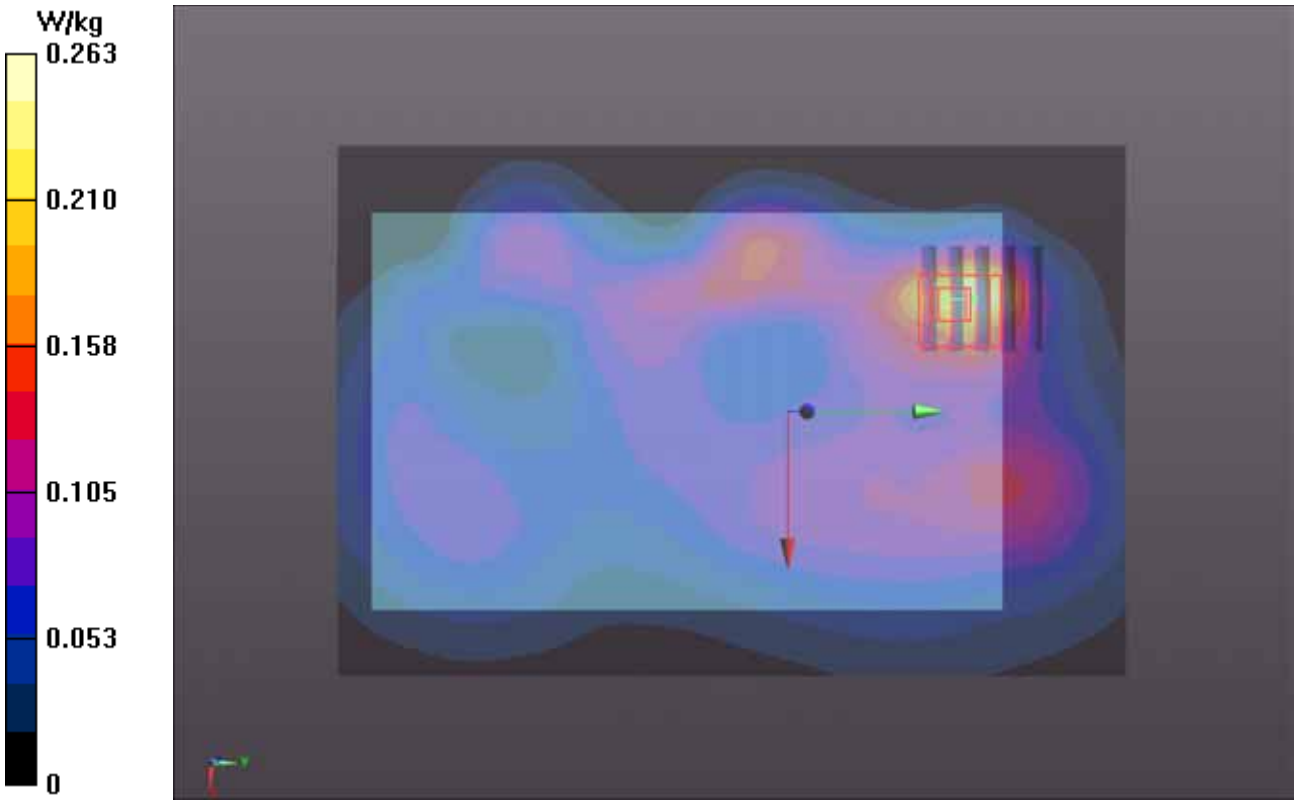
DUT: 120829C03

Communication System: WCDMA; Frequency: 1712.4 MHz;Duty Cycle: 1:1
Medium: B1750_0831 Medium parameters used: f = 1712.4 MHz; σ = 1.429 mho/m; ε_r = 53.912; ρ = 1000 kg/m^3
Ambient Temperature：21.5 ℃; Liquid Temperature：20.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(8.45, 8.45, 8.45); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch1312/Area Scan (81x121x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.263 W/kg

Ch1312/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.546 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 0.306 mW/g
SAR(1 g) = 0.195 mW/g; SAR(10 g) = 0.117 mW/g
Maximum value of SAR (measured) = 0.248 W/kg



P59 WCDMA IV_RMC12.2k_Secondary Portrait_1.4cm_Ch1312_Sensor Off

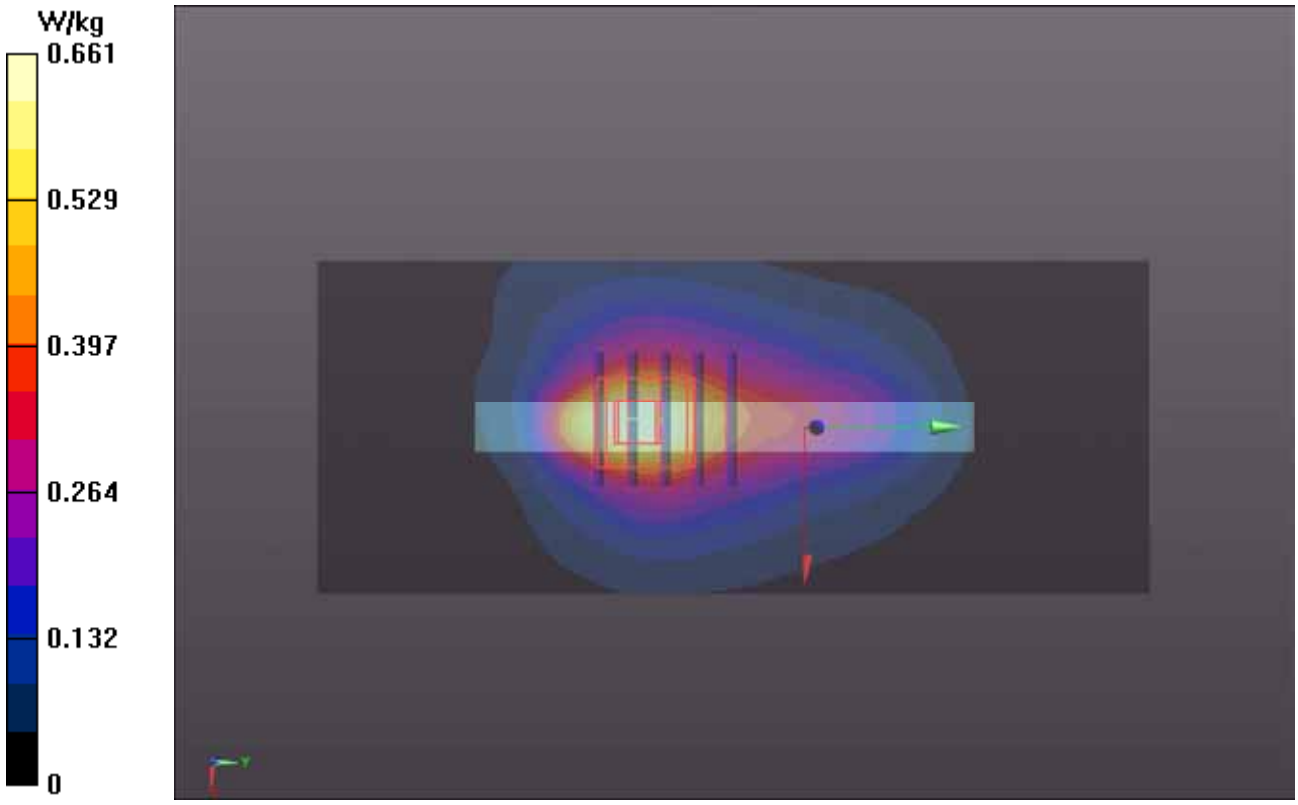
DUT: 120829C03

Communication System: WCDMA; Frequency: 1712.4 MHz;Duty Cycle: 1:1
Medium: B1750_0831 Medium parameters used: f = 1712.4 MHz; σ = 1.429 mho/m; ε_r = 53.912; ρ = 1000 kg/m^3
Ambient Temperature：21.5 ℃; Liquid Temperature：20.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(8.45, 8.45, 8.45); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch1312/Area Scan (41x101x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.661 W/kg

Ch1312/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17.541 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.823 mW/g
SAR(1 g) = 0.507 mW/g; SAR(10 g) = 0.301 mW/g
Maximum value of SAR (measured) = 0.669 W/kg



P60 WCDMA IV_RMC12.2k_Secondary Portrait_0cm_Ch1312_Sensor Off_Angle Right 19

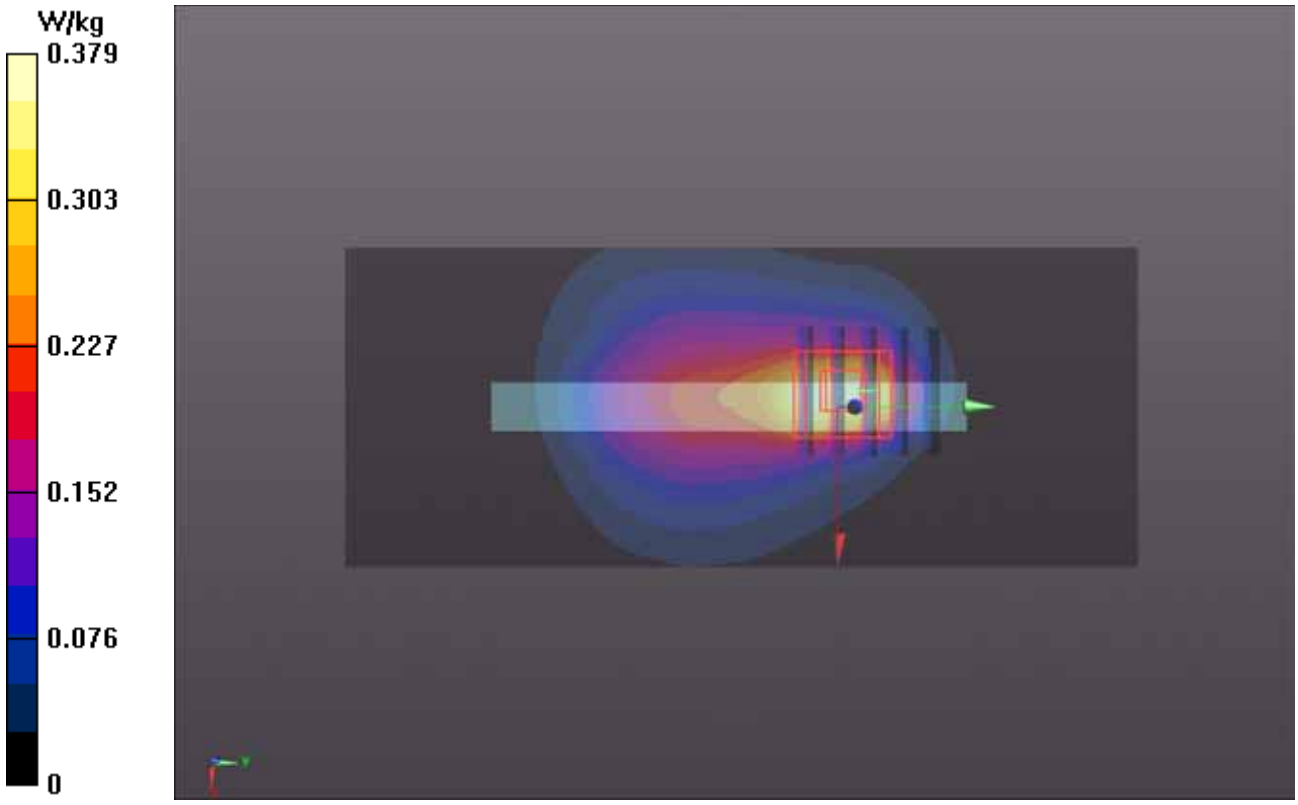
DUT: 120829C03

Communication System: WCDMA; Frequency: 1712.4 MHz;Duty Cycle: 1:1
Medium: B1750_0831 Medium parameters used: f = 1712.4 MHz; σ = 1.429 mho/m; ε_r = 53.912; ρ = 1000 kg/m^3
Ambient Temperature：21.5 ℃; Liquid Temperature：20.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(8.45, 8.45, 8.45); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch1312/Area Scan (41x101x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.379 W/kg

Ch1312/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.020 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.511 mW/g
SAR(1 g) = 0.289 mW/g; SAR(10 g) = 0.159 mW/g
Maximum value of SAR (measured) = 0.405 W/kg



P61 WCDMA IV_RMC12.2k_Secondary Landscape_0cm_Ch1312_Sensor Off

DUT: 120829C03

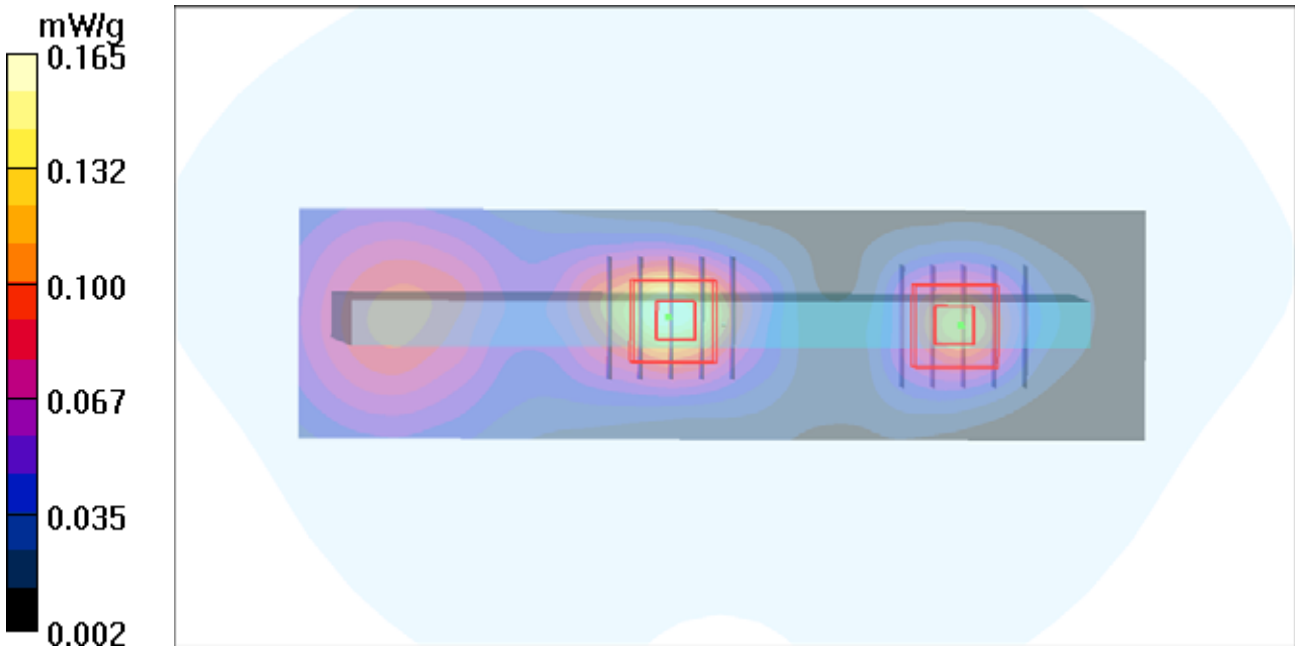
Communication System: WCDMA; Frequency: 1712.4 MHz;Duty Cycle: 1:1
Medium: B1750_0920 Medium parameters used : f = 1712.4 MHz; σ = 1.48 mho/m; ε_r = 54.8; ρ = 1000 kg/m^3
Ambient Temperature：22.5 ℃; Liquid Temperature：21.3 ℃

DASY4 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(8.45, 8.45, 8.45); Calibrated: 2012/07/19
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: SAM Phantom_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch1312/Area Scan (31x111x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.165 mW/g

Ch1312/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.1 V/m; Power Drift = -0.135 dB
Peak SAR (extrapolated) = 0.253 W/kg
SAR(1 g) = 0.150 mW/g; SAR(10 g) = 0.083 mW/g
Maximum value of SAR (measured) = 0.208 mW/g

Ch1312/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.1 V/m; Power Drift = -0.135 dB
Peak SAR (extrapolated) = 0.174 W/kg
SAR(1 g) = 0.102 mW/g; SAR(10 g) = 0.055 mW/g
Maximum value of SAR (measured) = 0.141 mW/g



P62 WCDMA IV_RMC12.2k_Primary Landscape_1.4cm_Ch1312_Sensor Off

DUT: 120829C03

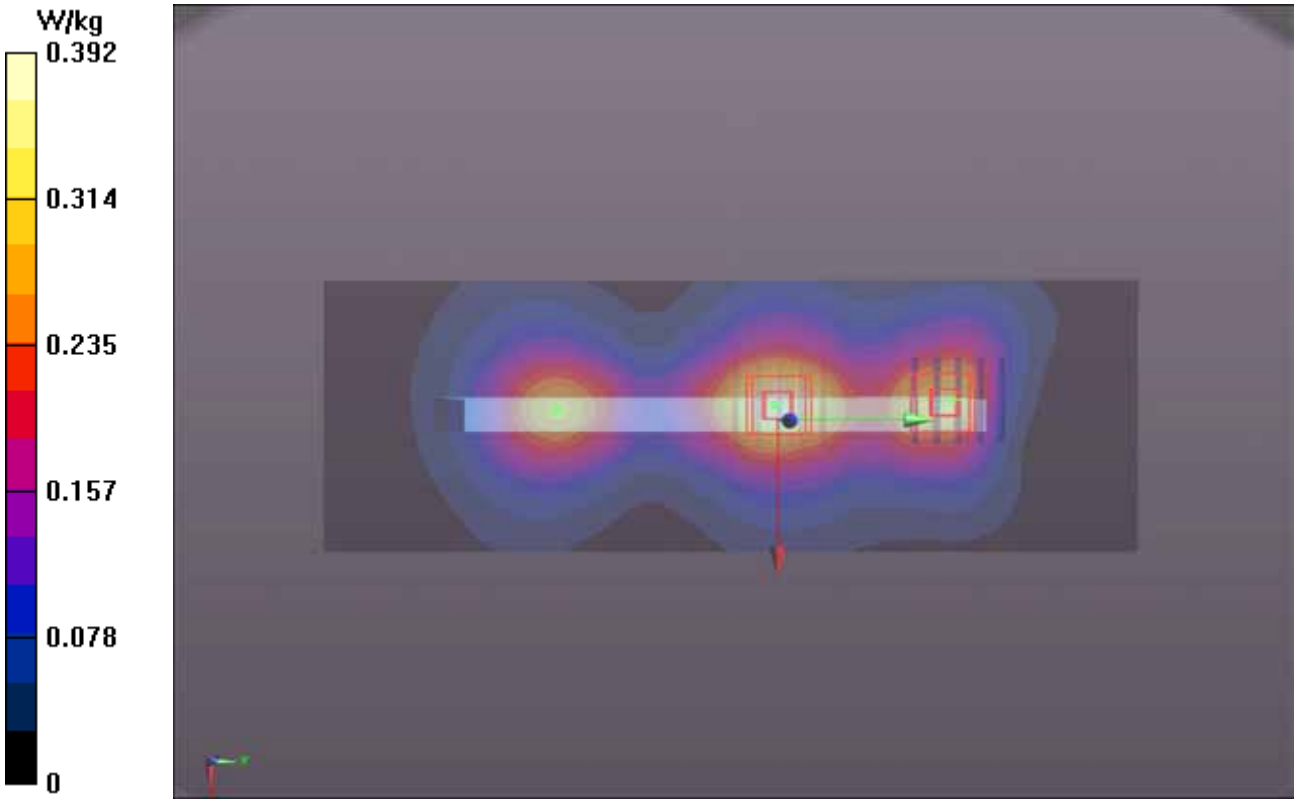
Communication System: WCDMA; Frequency: 1712.4 MHz;Duty Cycle: 1:1
Medium: B1750_0831 Medium parameters used : f = 1712.4 MHz; σ = 1.429 mho/m; ε_r = 53.912; ρ = 1000 kg/m^3
Ambient Temperature：21.5 ℃; Liquid Temperature：20.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(8.45, 8.45, 8.45); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch1312/Area Scan (51x151x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.392 W/kg

Ch1312/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.910 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.460 mW/g
SAR(1 g) = 0.310 mW/g; SAR(10 g) = 0.200 mW/g
Maximum value of SAR (measured) = 0.393 W/kg

Ch1312/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.910 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.416 mW/g
SAR(1 g) = 0.269 mW/g; SAR(10 g) = 0.164 mW/g
Maximum value of SAR (measured) = 0.342 W/kg



P63 WCDMA IV_RMC12.2k_Primary Landscape_0cm_Ch1312_Sensor Off_Angle Left

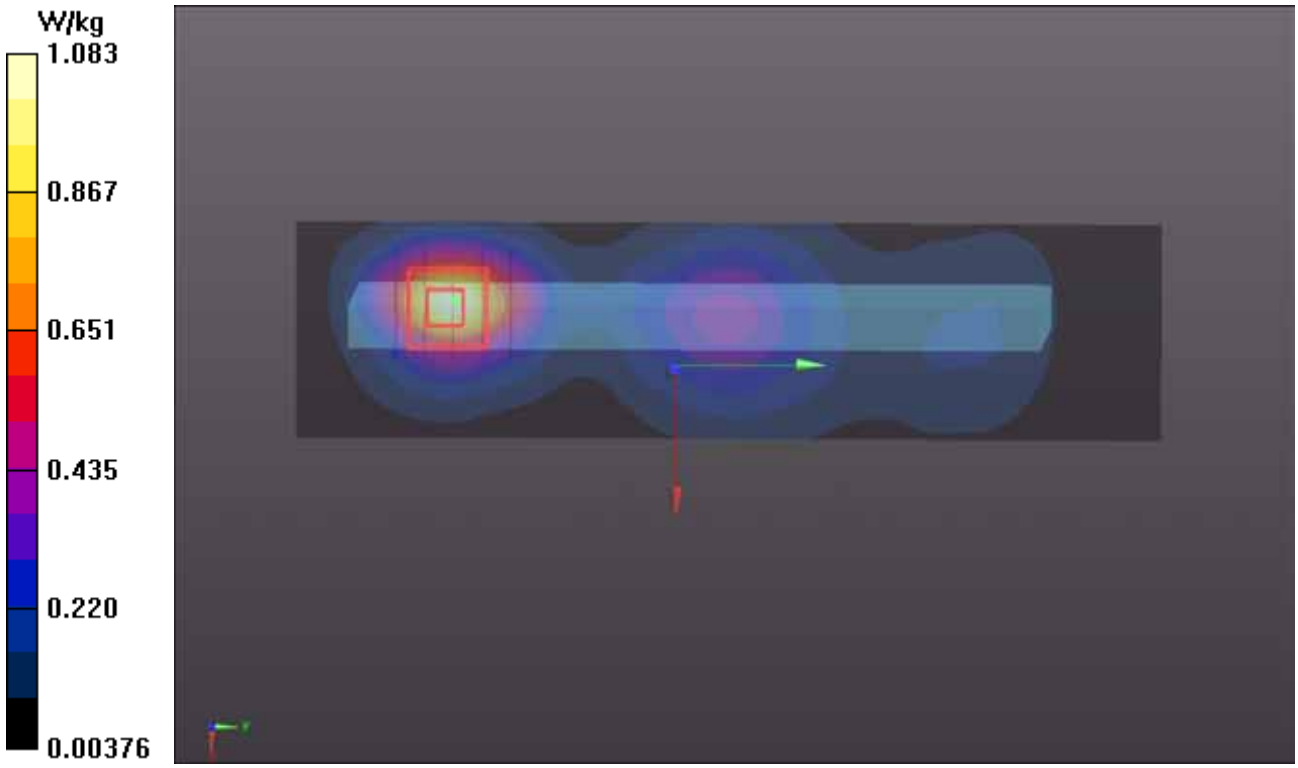
DUT: 120829C03

Communication System: WCDMA; Frequency: 1712.4 MHz;Duty Cycle: 1:1
Medium: B1750_0831 Medium parameters used: f = 1712.4 MHz; σ = 1.429 mho/m; ε_r = 53.912; ρ = 1000 kg/m^3
Ambient Temperature：21.5 ℃; Liquid Temperature：20.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(8.45, 8.45, 8.45); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch1312/Area Scan (31x121x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 1.08 W/kg

Ch1312/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 16.895 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.326 mW/g
SAR(1 g) = 0.812 mW/g; SAR(10 g) = 0.457 mW/g
Maximum value of SAR (measured) = 1.06 W/kg



P73 WCDMA IV_RMC12.2k_Primary Landscape_0cm_Ch1413_Sensor Off_Angle Left

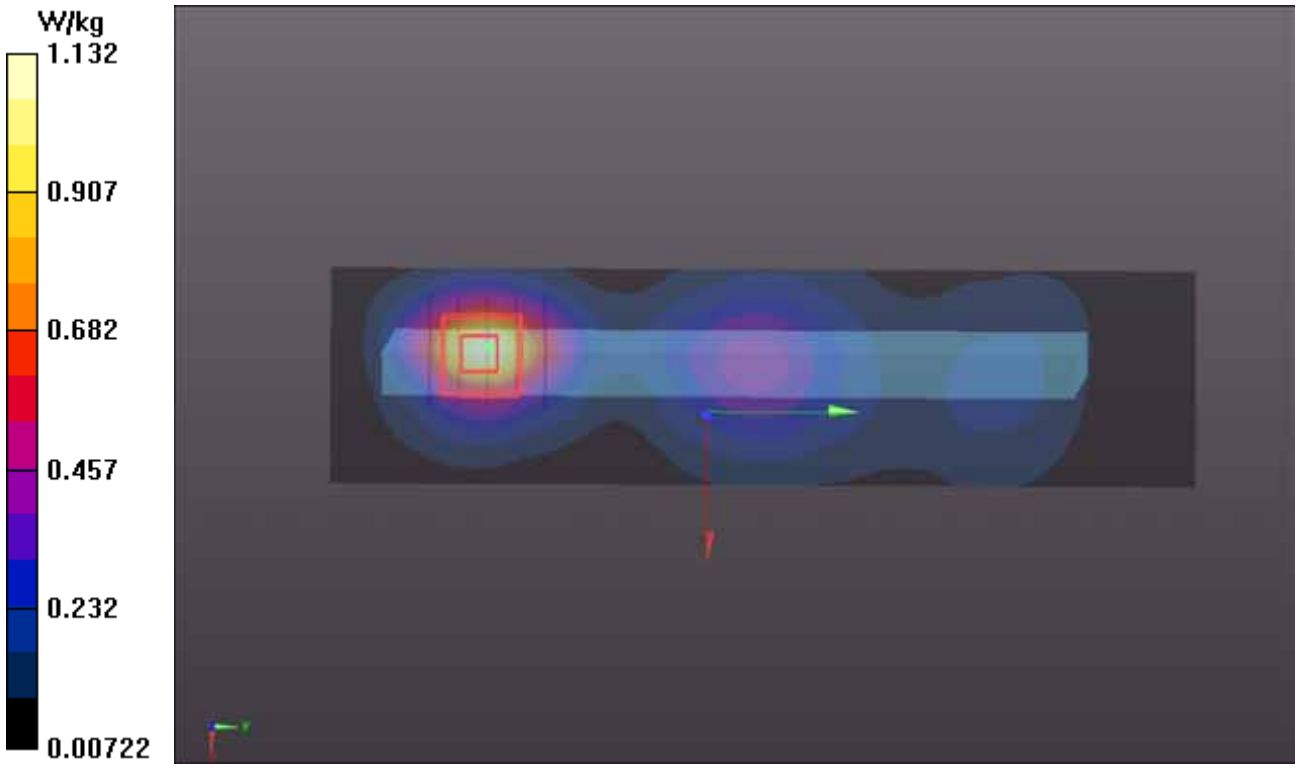
DUT: 120829C03

Communication System: WCDMA; Frequency: 1732.6 MHz;Duty Cycle: 1:1
Medium: B1750_0831 Medium parameters used: f = 1733 MHz; σ = 1.451 mho/m; ε_r = 53.863; ρ = 1000 kg/m^3
Ambient Temperature：21.5 ℃; Liquid Temperature：20.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(8.45, 8.45, 8.45); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch1413/Area Scan (31x121x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 1.13 W/kg

Ch1413/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17.444 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.395 mW/g
SAR(1 g) = 0.851 mW/g; SAR(10 g) = 0.476 mW/g
Maximum value of SAR (measured) = 1.11 W/kg



P74 WCDMA IV_RMC12.2k_Primary Landscape_0cm_Ch1513_Sensor Off_Angle Left 7

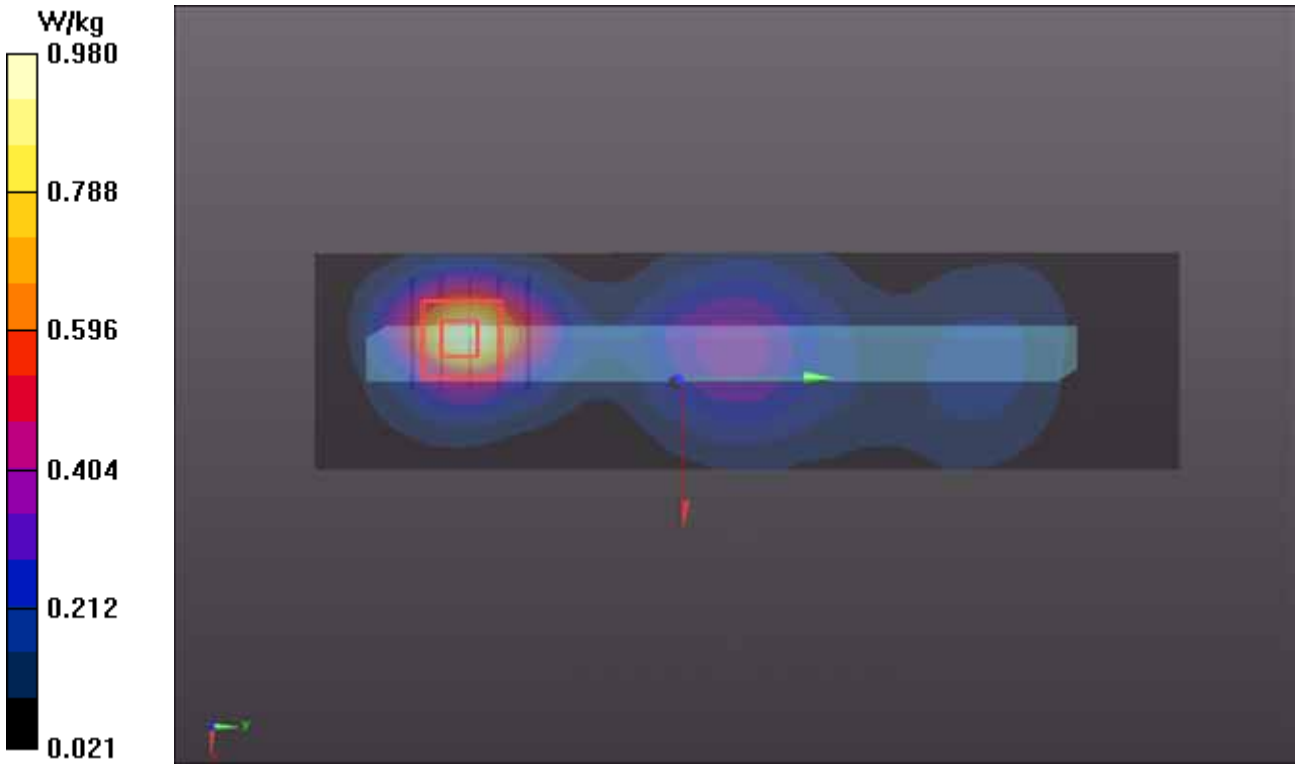
DUT: 120829C03

Communication System: WCDMA; Frequency: 1752.6 MHz;Duty Cycle: 1:1
Medium: B1750_0831 Medium parameters used: f = 1753 MHz; σ = 1.471 mho/m; ε_r = 53.814; ρ = 1000 kg/m^3
Ambient Temperature：21.5 ℃; Liquid Temperature：20.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(8.45, 8.45, 8.45); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch1513/Area Scan (31x121x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 1.00 W/kg

Ch1513/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 16.672 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.249 mW/g
SAR(1 g) = 0.755 mW/g; SAR(10 g) = 0.419 mW/g
Maximum value of SAR (measured) = 0.980 W/kg



P64 WCDMA II_RMC12.2k_Rear Face_1.4cm_Ch9262_Sensor Off

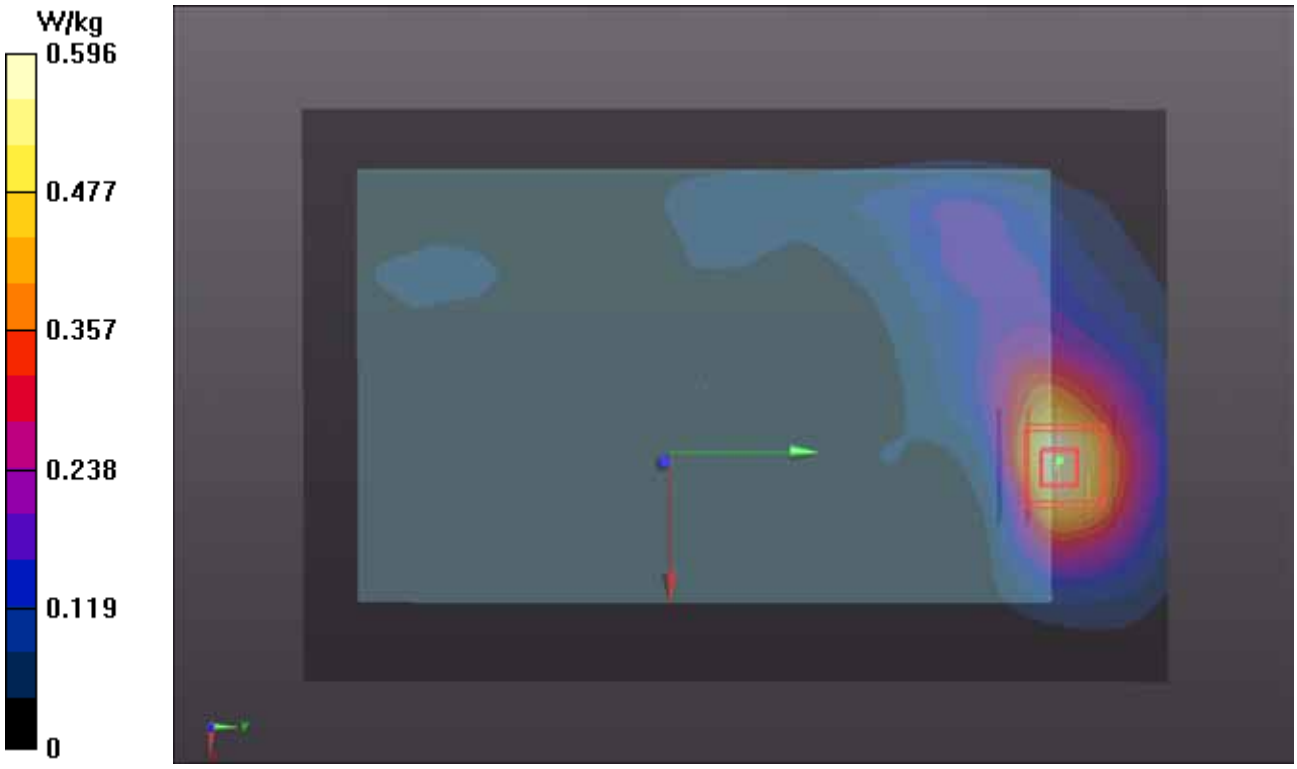
DUT: 120829C03

Communication System: WCDMA; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium: B1900_0831 Medium parameters used: f = 1852.4 MHz; σ = 1.48 mho/m; ε_r = 53.058; ρ = 1000 kg/m^3
Ambient Temperature：21.8 ℃; Liquid Temperature：20.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(7.88, 7.88, 7.88); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch9262/Area Scan (81x121x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.596 W/kg

Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.594 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 0.788 mW/g
SAR(1 g) = 0.490 mW/g; SAR(10 g) = 0.284 mW/g
Maximum value of SAR (measured) = 0.643 W/kg



P65 WCDMA II_RMC12.2k_Rear Face_0cm_Ch9262_Sensor Off_Angle Right 19

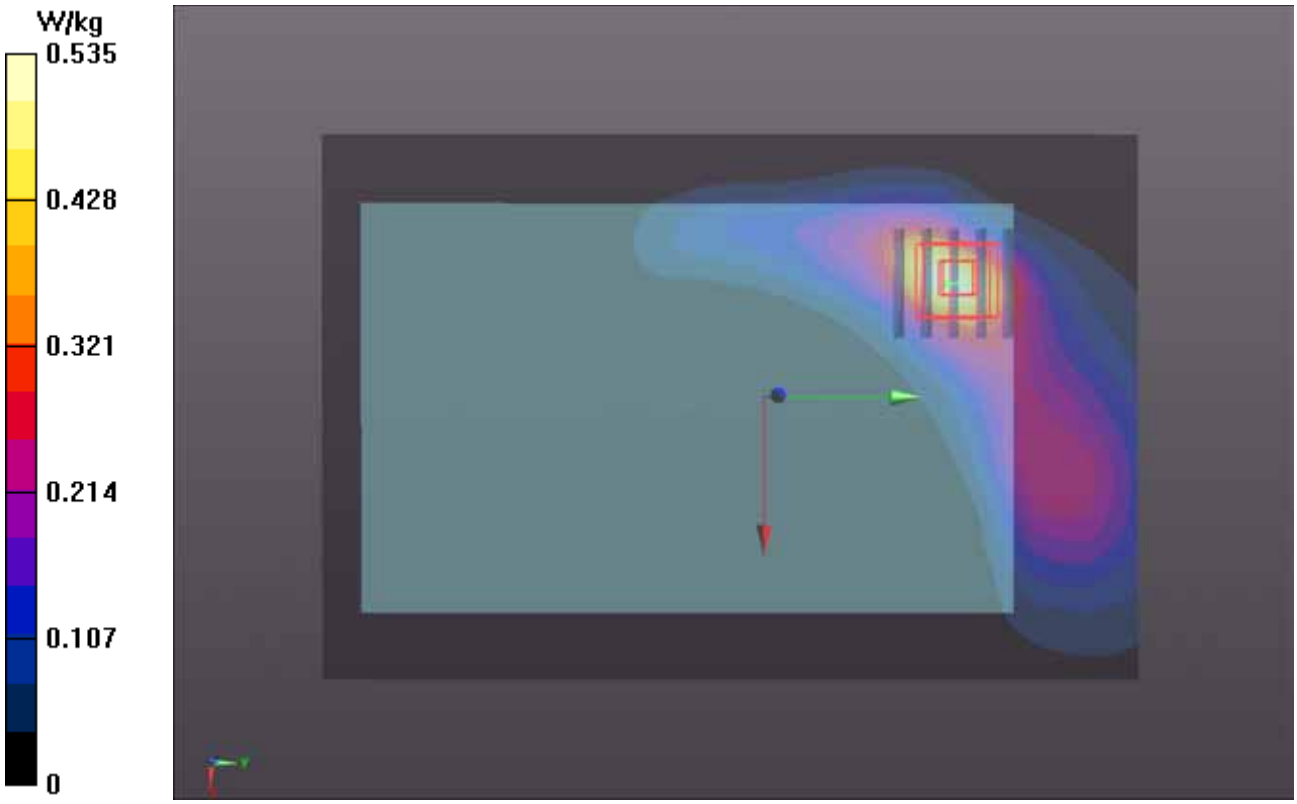
DUT: 120829C03

Communication System: WCDMA; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium: B1900_0831 Medium parameters used: f = 1852.4 MHz; σ = 1.48 mho/m; ε_r = 53.058; ρ = 1000 kg/m^3
Ambient Temperature：21.8 ℃; Liquid Temperature：20.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(7.88, 7.88, 7.88); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch9262/Area Scan (81x121x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.535 W/kg

Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 0 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.710 mW/g
SAR(1 g) = 0.436 mW/g; SAR(10 g) = 0.236 mW/g
Maximum value of SAR (measured) = 0.557 W/kg



P66 WCDMA II_RMC12.2k_Secondary Portrait_1.4cm_Ch9262_Sensor Off

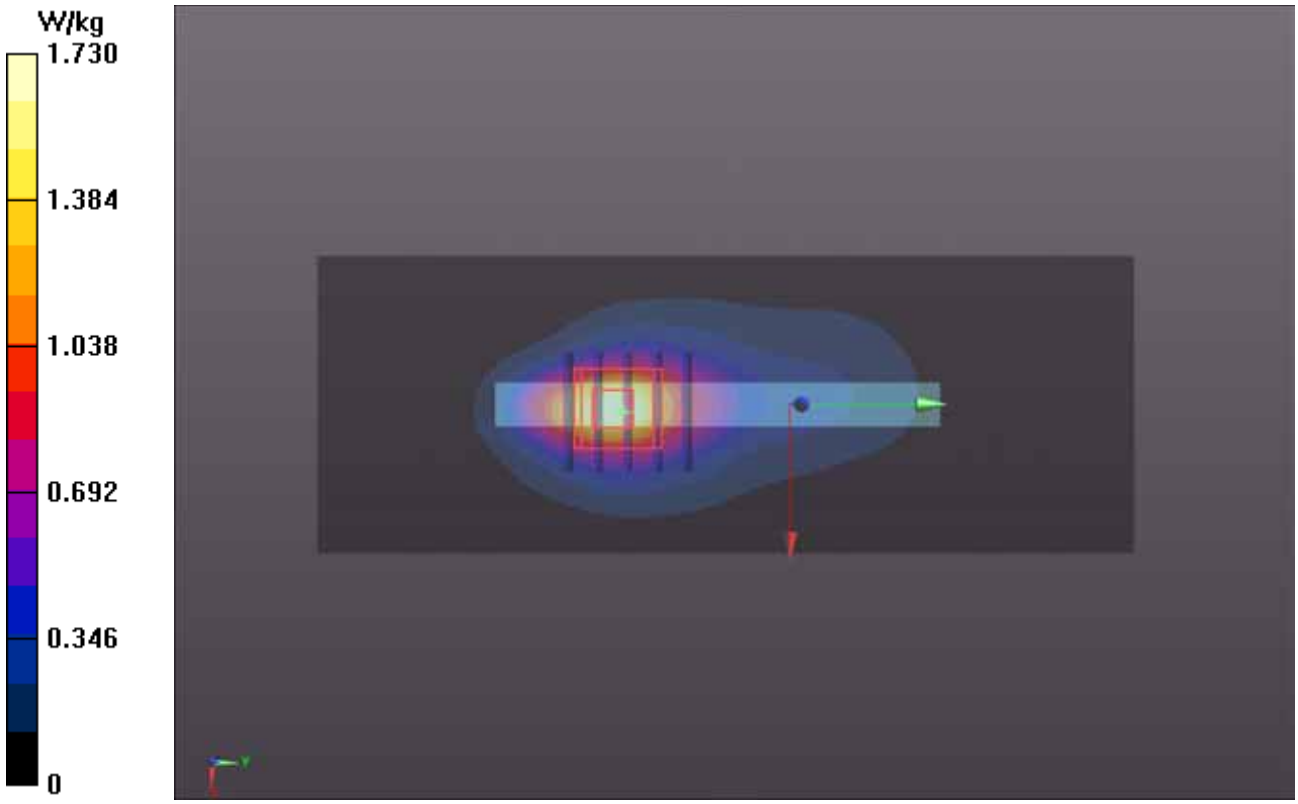
DUT: 120829C03

Communication System: WCDMA; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium: B1900_0831 Medium parameters used: f = 1852.4 MHz; σ = 1.48 mho/m; ε_r = 53.058; ρ = 1000 kg/m^3
Ambient Temperature：21.8 ℃; Liquid Temperature：20.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(7.88, 7.88, 7.88); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch9262/Area Scan (41x111x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 1.73 W/kg

Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 19.294 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 2.095 mW/g
SAR(1 g) = 1.26 mW/g; SAR(10 g) = 0.697 mW/g
Maximum value of SAR (measured) = 1.68 W/kg



P67 WCDMA II_RMC12.2k_Secondary Portrait_0cm_Ch9262_Sensor Off_Angle Right 19

DUT: 120829C03

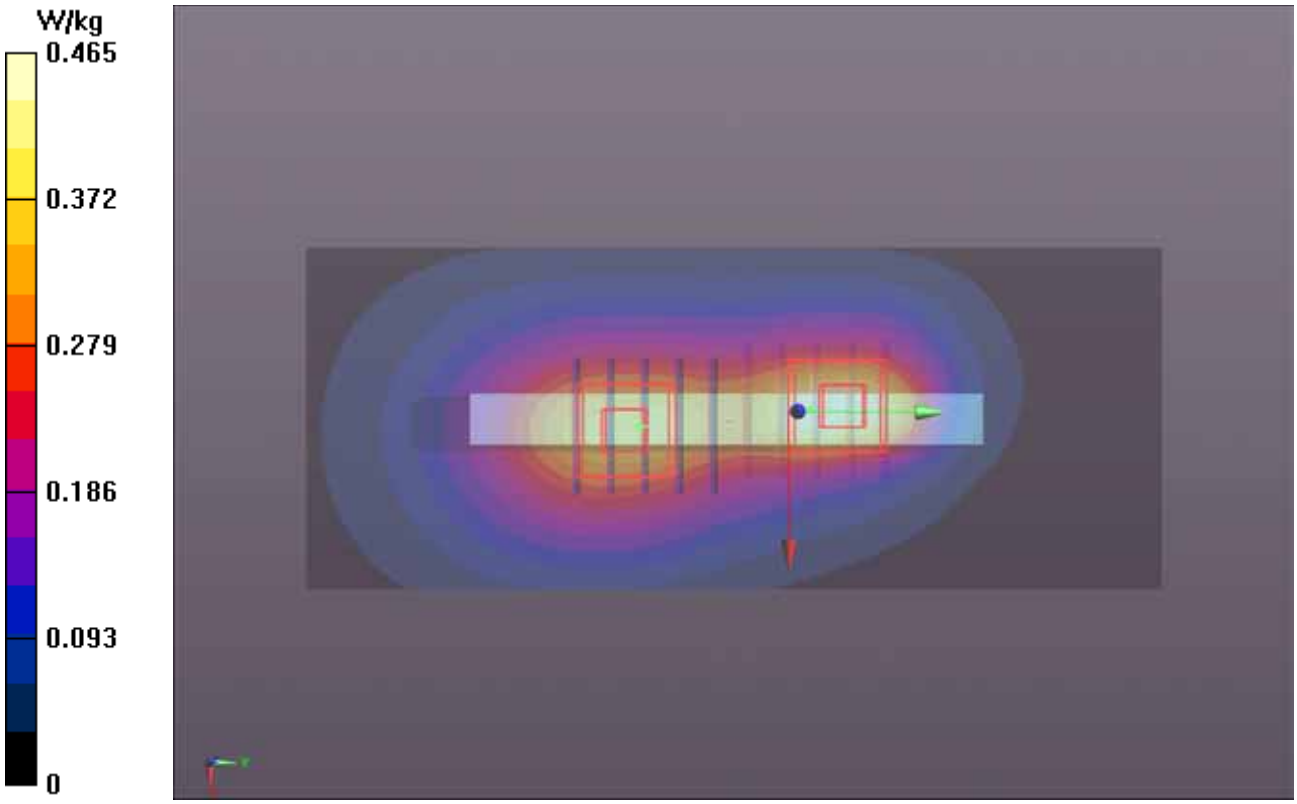
Communication System: WCDMA; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium: B1900_0831 Medium parameters used: f = 1852.4 MHz; σ = 1.48 mho/m; ε_r = 53.058; ρ = 1000 kg/m^3
Ambient Temperature：21.8 ℃; Liquid Temperature：20.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(7.88, 7.88, 7.88); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch9262/Area Scan (41x101x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.465 W/kg

Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 15.319 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.631 mW/g
SAR(1 g) = 0.369 mW/g; SAR(10 g) = 0.208 mW/g
Maximum value of SAR (measured) = 0.507 W/kg

Ch9262/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 15.319 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.472 mW/g
SAR(1 g) = 0.305 mW/g; SAR(10 g) = 0.190 mW/g
Maximum value of SAR (measured) = 0.392 W/kg



P68 WCDMA II_RMC12.2k_Secondary Landscape_0cm_Ch9262_Sensor Off

DUT: 120829C03

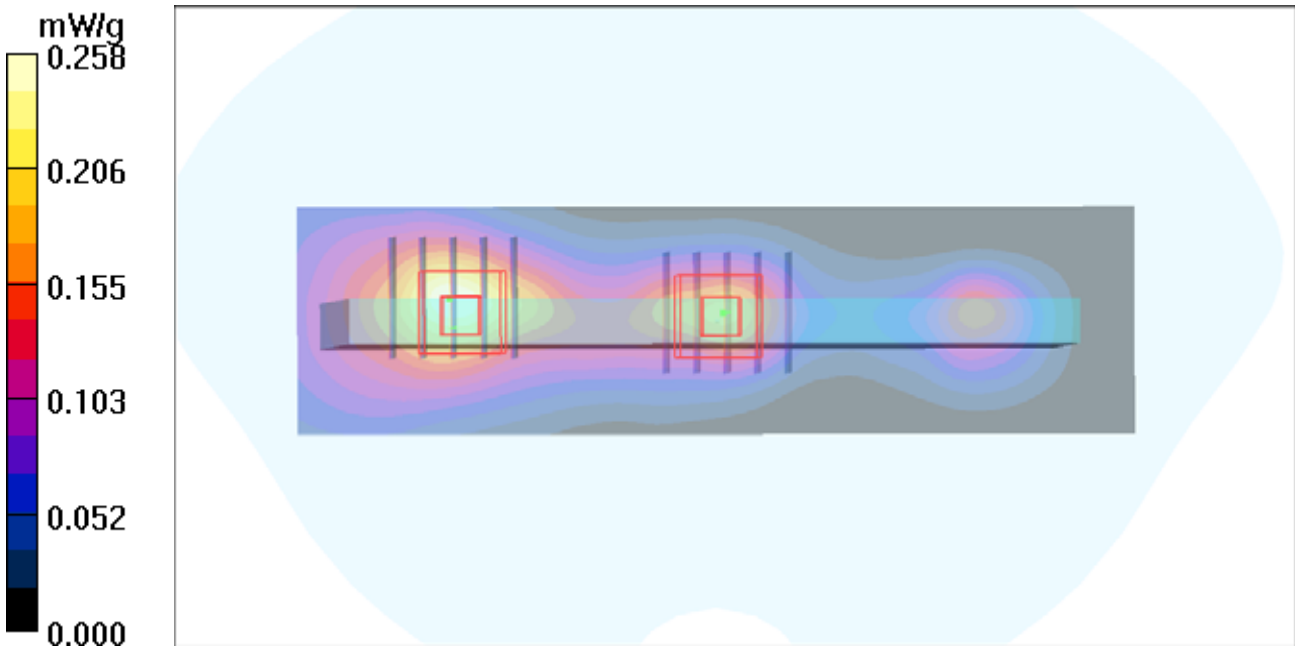
Communication System: WCDMA; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium: B1900_0920 Medium parameters used : f = 1852.4 MHz; σ = 1.49 mho/m; ε_r = 53.2; ρ = 1000 kg/m^3
Ambient Temperature：22.5 ℃; Liquid Temperature：21.3 ℃

DASY4 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(7.88, 7.88, 7.88); Calibrated: 2012/07/19
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: SAM Phantom_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch9262/Area Scan (31x111x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.258 mW/g

Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.7 V/m; Power Drift = -0.074 dB
Peak SAR (extrapolated) = 0.419 W/kg
SAR(1 g) = 0.242 mW/g; SAR(10 g) = 0.134 mW/g
Maximum value of SAR (measured) = 0.310 mW/g

Ch9262/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.7 V/m; Power Drift = -0.074 dB
Peak SAR (extrapolated) = 0.367 W/kg
SAR(1 g) = 0.204 mW/g; SAR(10 g) = 0.106 mW/g
Maximum value of SAR (measured) = 0.291 mW/g



P69 WCDMA II_RMC12.2k_Primary Landscape_1.4cm_Ch9262_Sensor Off

DUT: 120829C03

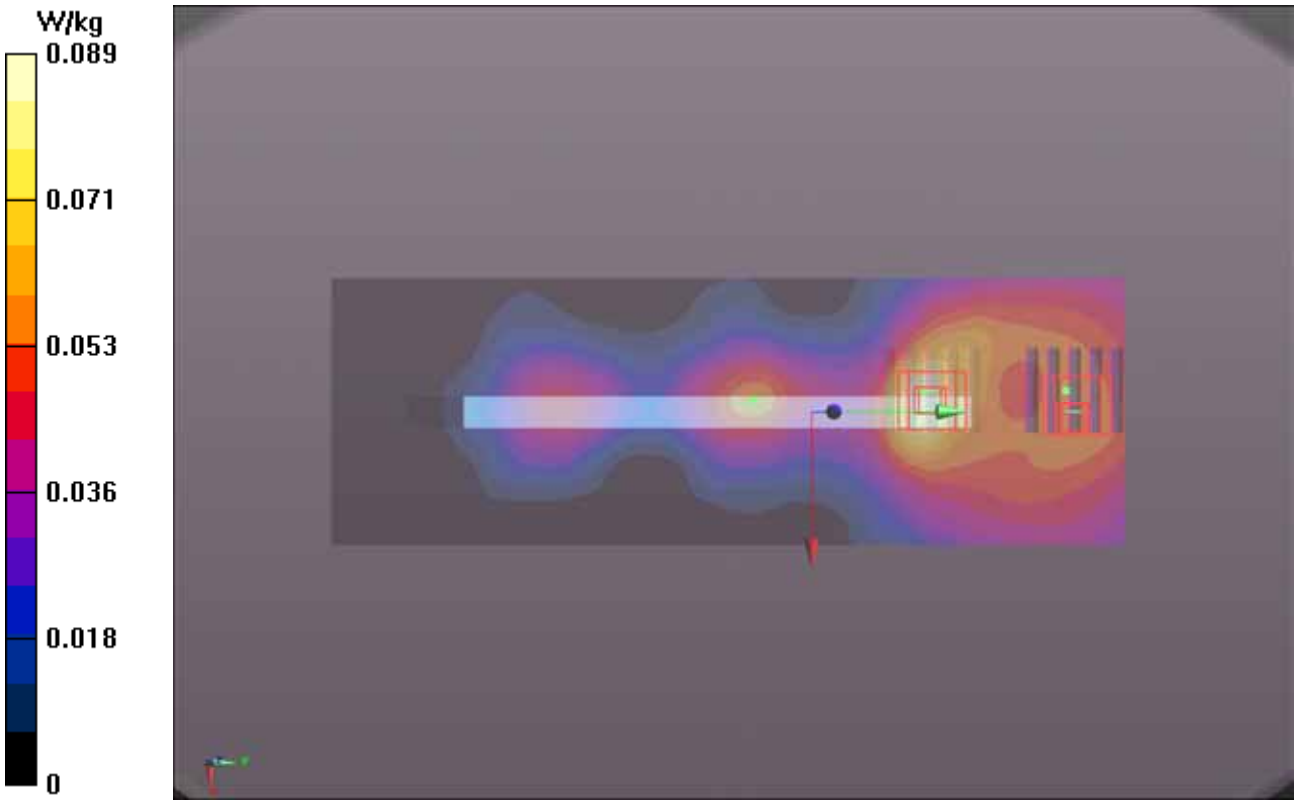
Communication System: WCDMA; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium: B1900_0831 Medium parameters used: f = 1852.4 MHz; σ = 1.48 mho/m; ε_r = 53.058; ρ = 1000 kg/m^3
Ambient Temperature：21.8 ℃; Liquid Temperature：20.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(7.88, 7.88, 7.88); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch9262/Area Scan (51x151x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.0890 W/kg

Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.375 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.117 mW/g
SAR(1 g) = 0.074 mW/g; SAR(10 g) = 0.043 mW/g
Maximum value of SAR (measured) = 0.0943 W/kg

Ch9262/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.375 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.073 mW/g
SAR(1 g) = 0.048 mW/g; SAR(10 g) = 0.031 mW/g
Maximum value of SAR (measured) = 0.0611 W/kg



P70 WCDMA II_RMC12.2k_Primary Landscape_0cm_Ch9262_Sensor Off_Angle Left 7

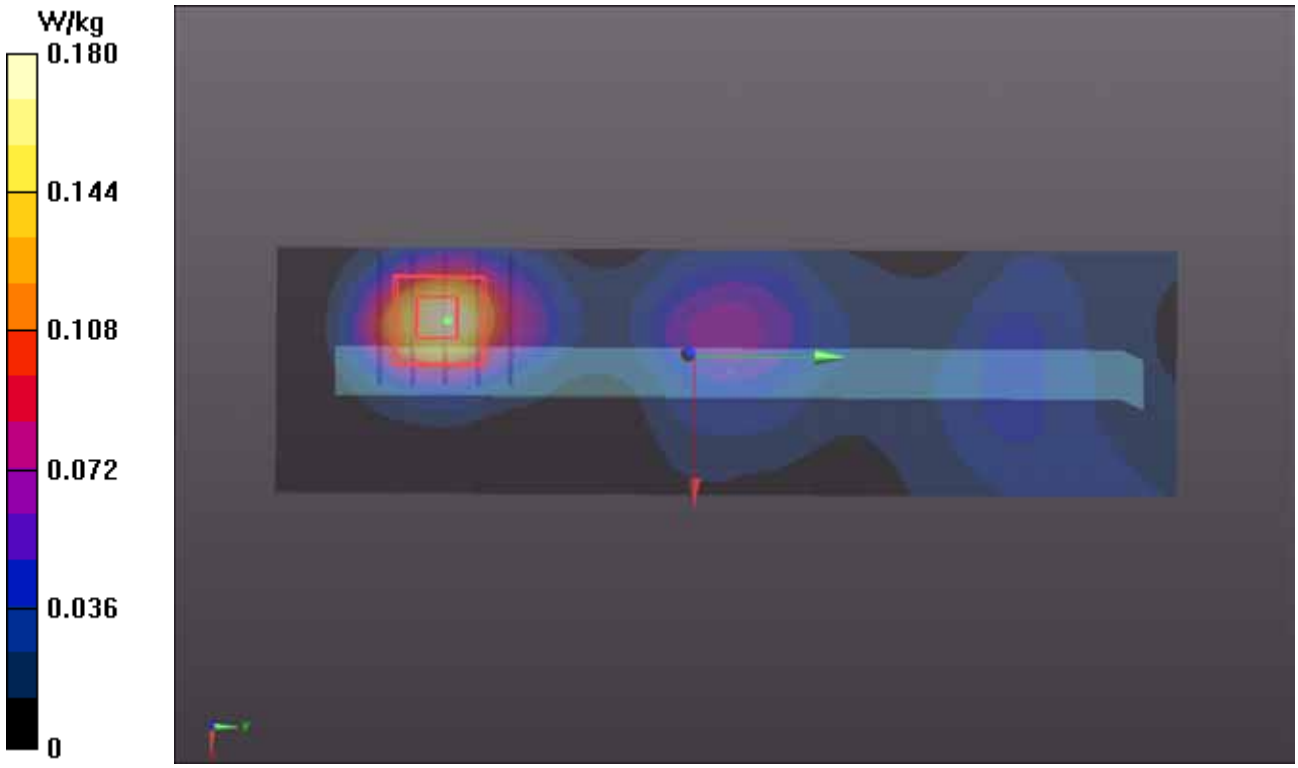
DUT: 120829C03

Communication System: WCDMA; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium: B1900_0831 Medium parameters used: f = 1852.4 MHz; σ = 1.48 mho/m; ε_r = 53.058; ρ = 1000 kg/m^3
Ambient Temperature：21.8 ℃; Liquid Temperature：20.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(7.88, 7.88, 7.88); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch9262/Area Scan (31x111x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.180 W/kg

Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.391 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.228 mW/g
SAR(1 g) = 0.133 mW/g; SAR(10 g) = 0.071 mW/g
Maximum value of SAR (measured) = 0.182 W/kg



P75 WCDMA II_RMC12.2k_Secondary Portrait_1.4cm_Ch9400_Sensor Off

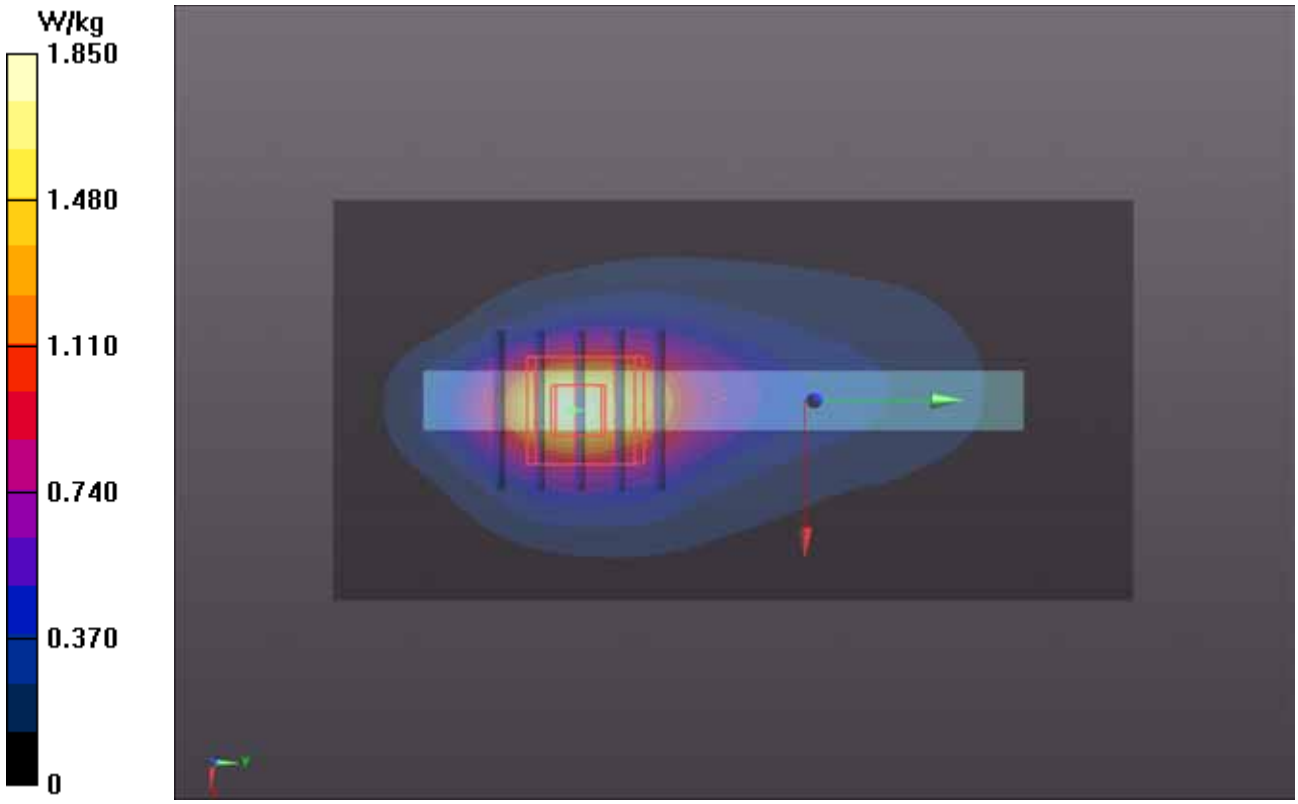
DUT: 120829C03

Communication System: WCDMA; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: B1900_0831 Medium parameters used: f = 1880 MHz; σ = 1.519 mho/m; ε_r = 52.925; ρ = 1000 kg/m^3
Ambient Temperature：21.8 ℃; Liquid Temperature：20.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(7.88, 7.88, 7.88); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch9400/Area Scan (41x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 1.85 W/kg

Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.192 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 2.204 mW/g
SAR(1 g) = 1.32 mW/g; SAR(10 g) = 0.736 mW/g
Maximum value of SAR (measured) = 1.79 W/kg



P76 WCDMA II_RMC12.2k_Secondary Portrait_1.4cm_Ch9538_Sensor Off

DUT: 120829C03

Communication System: WCDMA; Frequency: 1907.6 MHz;Duty Cycle: 1:1
Medium: B1900_0831 Medium parameters used: f = 1908 MHz; σ = 1.551 mho/m; ε_r = 52.863; ρ = 1000 kg/m^3
Ambient Temperature：21.8 ℃; Liquid Temperature：20.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3864; ConvF(7.88, 7.88, 7.88); Calibrated: 2012/07/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2012/07/19
- Phantom: ELI v4.0; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Ch9538/Area Scan (41x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 1.90 W/kg

Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 21.249 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 2.287 mW/g
SAR(1 g) = 1.37 mW/g; SAR(10 g) = 0.760 mW/g
Maximum value of SAR (measured) = 1.85 W/kg