



Report No.: RZA1104-0608SAR03R1



# OET 65

# TEST REPORT

<b>Product Name</b>	cdma2000 Digital Mobile Phone
<b>Model</b>	HUAWEI M865/M865
<b>FCC ID</b>	QISM865
<b>Client</b>	Huawei Technologies Co., Ltd.

**TA Technology (Shanghai) Co., Ltd.**



## GENERAL SUMMARY

<b>Product Name</b>	cdma2000 Digital Mobile Phone	<b>Model</b>	HUAWEI M865/M865
<b>FCC ID</b>	QISM865	<b>Report No.</b>	RZA1104-0608SAR03R1
<b>Client</b>	Huawei Technologies Co., Ltd.		
<b>Manufacturer</b>	Huawei Technologies Co., Ltd.		
<b>Standard(s)</b>	<p><b>RSS-102 Issue 4 March 2010:</b> Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands).</p> <p><b>IEEE Std C95.1, 1999:</b> IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.</p> <p><b>IEEE Std 1528™-2003:</b> IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques.</p> <p><b>SUPPLEMENT C Edition 01-01 to OET BULLETIN 65 Edition 97-01 June 2001 including DA 02-1438 June 19, 2002:</b> Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields Additional Information for Evaluation Compliance of Mobile and Portable Devices with FCC Limits for Human Exposure to Radiofrequency Emissions.</p> <p><b>KDB 941225 D06 Hot Spot SAR v01</b> SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities.</p>		
<b>Conclusion</b>	<p>This portable wireless equipment has been measured in all cases requested by the relevant standards. Test results in Chapter 7 of this test report are below limits specified in the relevant standards.</p> <p>General Judgment: <b>Pass</b></p> <div style="text-align: right;">  <p>(Stamp) Date of issue: May 25<sup>th</sup>, 2011</p> </div>		
<b>Comment</b>	The test result only responds to the measured sample.		

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## 1. General Information

### 1.1. Notes of the Test Report

**TA Technology (Shanghai) Co., Ltd.** guarantees the reliability of the data presented in this test report, which is the results of measurements and tests performed for the items under test on the date and under the conditions stated in this test report and is based on the knowledge and technical facilities available at TA Technology (Shanghai) Co., Ltd. at the time of execution of the test.

**TA Technology (Shanghai) Co., Ltd.** is liable to the client for the maintenance by its personnel of the confidentiality of all information related to the items under test and the results of the test. This report only refers to the item that has undergone the test.

This report standalone dose not constitute or imply by its own an approval of the product by the certification Bodies or competent Authorities. This report cannot be used partially or in full for publicity and/or promotional purposes without previous written approval of **TA Technology (Shanghai) Co., Ltd.** and the Accreditation Bodies, if it applies.

If the electrical report is inconsistent with the printed one, it should be subject to the latter.

### 1.2. Testing Laboratory

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## 1.3. Applicant Information

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## 1.4. Manufacturer Information

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**1.5. Information of EUT**

**General Information**

Device Type:	Portable Device		
Exposure Category:	Uncontrolled Environment / General Population		
Product Name:	cdma2000 Digital Mobile Phone		
MEID:	268435460503234841		
Hardware Version:	HC1M865M		
Software Version:	M865V100R001C289B838		
Antenna Type:	Internal Antenna		
Device Operating Configurations:			
Supporting Mode(s):	CDMA Cellular; (tested) CDMA PCS; (tested) CDMA AWS; (tested) Bluetooth; WIFI; (tested)		
Test Modulation:	QPSK		
Power Class:	CDMA Cellular: Tested with Power Control All up bits		
	CDMA PCS: Tested with Power Control All up bits		
	CDMA AWS: Tested with Power Control All up bits		
Operating Frequency Range(s):	Mode	Tx (MHz)	Rx (MHz)
	CDMA Cellular	824.7 ~ 848.31	869.7 ~ 893.31
	CDMA PCS	1851.25 ~ 1908.75	1931.25 ~ 1988.75
	CDMA AWS	1711.25 ~ 1752.5	2111.25 ~ 2152.5
Test Channel: (Low - Middle - High)	1013 - 384 - 777	(CDMA Cellular)	(tested)
	25 - 600 - 1175	(CDMA PCS)	(tested)
	25 - 450 - 850	(CDMA AWS)	(tested)
	1-6-11	(Wifi b/g)	(tested)

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### Auxiliary Equipment Details

#### AE1:Battery

Model: HB5K1H  
Manufacturer: Huawei Technologies Co., Ltd.  
SN: WHCAC15HI5101315

Equipment Under Test (EUT) is a model of cdma2000 Digital Mobile Phone. The device has a internal antennas for CDMA Tx/Rx, and the other is Wifi/BT antenna that can be used for Tx/Rx. The detail about Mobile phone and Lithium Battery is in chapter 1.5 in this report. SAR is tested for CDMA Cellular, CDMA PCS ,CDMA AWS and Wifi.

HUAWEI M865/M865 (new) is a variant model of HUAWEI M865/M865 (original). HUAWEI M865/M865 (new) has Personal Wireless Routers (hot spots) function. The detailed differences between the HUAWEI M865/M865 (new) and HUAWEI M865/M865 (original) please refer to the ANNEX K.

SAR values duplicated from HUAWEI M865/M865 (original) for HUAWEI M865/M865 (new), The report number of the HUAWEI M865/M865 (original) is RZA1104-0608SAR02, and the HUAWEI M865/M865 (new) only added the measurement data under the Personal Wireless Routers (hot spots) function.

The sample under test was selected by the Client.

Components list please refer to documents of the manufacturer.

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**1.6. The Maximum SAR<sub>1g</sub> Values and Conducted Power of each tested Mode**

**Head Configuration**

Mode	Channel	Position	SAR <sub>1g</sub> (W/kg)
CDMA Cellular	High/777	Right, Cheek	<b>0.720</b>
CDMA PCS	Low/25	Right, Cheek	<b>1.340</b>
CDMA AWS	High/850	Left, Cheek	<b>0.815</b>
802.11b	Low/1	Right, Cheek	<b>0.245</b>

**Body Worn Configuration**

Mode	Channel	Separation distance	SAR <sub>1g</sub> (W/kg)
CDMA Cellular	Low/1013	15mm	<b>1.020</b>
CDMA PCS	Middle/600	15mm	<b>0.672</b>
CDMA AWS	High/850	15mm	<b>0.692</b>
802.11b	Low/1	15mm	<b>0.056</b>

**Hot spot Mode**

Mode	Channel	Separation distance	SAR <sub>1g</sub> (W/kg)
CDMA Cellular	Low/1013	10mm	<b>1.320</b>
CDMA PCS	Middle/600	10mm	<b>1.110</b>
CDMA AWS	High/850	10mm	<b>0.969</b>
802.11b	High/11	10mm	<b>0.160</b>

**The Maximum Power**

Band	Maximum Conducted Power (dBm)
CDMA Cellular	<b>24.67</b>
CDMA PCS	<b>24.09</b>
CDMA AWS	<b>24.06</b>

Note: The detail Power refers to Table 5 (Power Measurement Results).

**1.7. Test Date**

The test is performed from April 28, 2011 to May 3, 2011.

## 2. Operational Conditions during Test

### 2.1. General Description of Test Procedures

A communication link is set up with a System Simulator (SS) by air link, and a call is established. The Absolute Radio Frequency Channel Number (ARFCN) is allocated to 1013, 384 and 777 respectively in the case of CDMA Cellular, to 25, 600 and 1175 respectively in the case of CDMA PCS, to 25, 450 and 850 respectively in the case of CDMA AWS. The EUT is commanded to operate at maximum transmitting power.

Connection to the EUT is established via air interface with E5515C, and the EUT is set to maximum output power by E5515C. Using the E5515C Power control is set "All Up Bits" in SAR of CDMA. The EUT battery must be fully charged and checked periodically during the test to ascertain uniform power output. The antenna connected to the output of the base station simulator shall be placed at least 50 cm away from the EUT. The signal transmitted by the simulator to the antenna feeding point shall be lower than the output power level of the EUT by at least 30 dB.

### 2.2. Information for the Measurement of CDMA 1x Devices

#### 2.2.1. Output Power Verification

Test Parameter setup for maximum RF output power according to section 4.4.5 of 3GPP2

Parameter	Units	Value
I or	dBm/1.23MHz	-104
PilotE c /I or	dB	-7
TrafficE c /I or	dB	-7.4

For SAR test, the maximum power output is very important and essential; it is identical under the measurement uncertainty. It is proper to use typical Test Mode 3 (FW RC3, RVS RC3, SO55) as the worst case for SAR test.

#### 2.2.2. Head SAR Measurement

SAR is measured in RC3 with the DUT configured to transmit at full rate using Loopback Service Option SO55. SAR for RC1 is not required because the maximum average output of each channel is less than 0.25 dB higher than that measured in RC3. Otherwise, SAR is measured on the maximum output channel in RC1 using the exposure configuration that results in the highest SAR for that channel in RC3.

#### 2.2.3. Body SAR Measurement

SAR is measured in RC3 with the EUT configured to transmit at full rate using TDSO/SO32, transmit at full rate on FCH with all other code channels disabled. SAR for multiple code channels (FCH+SCHn) is not required when the maximum average output of each RF channel is less than 0.25dB higher than measured with FCH only.

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Body SAR in RC1 is not required because the maximum average output of each channel is less than 0.25 dB higher than that measured in RC3. Otherwise, SAR is measured on the maximum output channel in RC1; with Loopback Service Option SO55, at full rate using the body exposure configuration that results in the highest SAR for that channel in RC3.

Test communication setup meet as followings:

Communication standard between mobile station and base station simulator	3GPP2 C.S0011-B
Radio configuration	RC3 (Supporting CDMA 1X)
Spreading Rate	SR1
Data Rate	9600bps
Service Options	SO55 (loop back mode)
Service Options	SO32 (test data service mode)
Multiplex Options	The mobile station does not support this service.

### 2.3. Handsets with Ev-Do

For handsets with Ev-Do capabilities, when the maximum average output of each channel in Rev. 0 is less than ¼ dB higher than that measured in RC3 (1x RTT), body SAR for Ev-Do is not required. Otherwise, SAR for Rev. 0 is measured on the maximum output channel, at 153.6 kbps using the body exposure configuration that results in the highest SAR for that channel in RC3. SAR for Rev. A is not required when the maximum average output of each channel is less than that measured in Rev. 0 or less than ¼ dB higher than that measured in RC3. Otherwise, SAR is measured on the maximum output channel for Rev. A using a Reverse Data Channel payload size of 4096 bits and a Termination Target of 16 slots defined for Subtype 2 Physical Layer configurations. A Forward Traffic Channel data rate corresponding to the 2-slot version of 307.2 kbps with the ACK Channel transmitting in all slots should be configured in the downlink for both Rev. 0 and Rev. A.

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### 2.4. WIFI Test Configuration

For the 802.11b/g SAR tests, a communication link is set up with the test mode software for WIFI mode test. The Absolute Radio Frequency Channel Number (ARFCN) is allocated to 1, 6 and 11 respectively in the case of 2450 MHz. During the test, at the each test frequency channel, the EUT is operated at the RF continuous emission mode. Each channel should be tested at the lowest data rate. Testing at higher data rates is not required when the maximum average output power is less than 0.25dB higher than those measured at the lowest data rate.

802.11b/g operating modes are tested independently according to the service requirements in each frequency band.802.11b/g modes are tested on channels1,6,11;however,if output power reduction is necessary for channels 1 and /or 11 to meet restricted band requirements the highest output channels closest to each of these channels must be tested instead.

SAR is not required for 802.11g channels when the maximum average output power is less than 0.25dB higher than that measured on the corresponding 802.11b channels. When the maximum average output channel in each frequency band is not included in the “default test channels”, the maximum channel should be tested instead of an adjacent “default test channels”, these are referred to as the “required test channels” and are illustrated in table 1.

**Table 1: “Default Test Channels”**

Mode	GHz	Channel	Turbo Channel	“Default Test Channels”			
				15.247		UNII	
				802.11b	802.11g		
802.11b/g	2.412	1 <sup>#</sup>		√	*		
	2.437	6	6	√	*		
	2.462	11 <sup>#</sup>		√	*		

Note: <sup>#</sup>=when output power is reduced for channel 1 and /or 11to meet restricted band requirements the highest out put channels closet to each of these channels should be tested.

√= “default test channels”

\* =possible 802.11g channels with maximum average output 0.25dB>=the “default test channels”

## **2.5. Test Positions**

### **2.5.1. Against Phantom Head**

Measurements were made in “cheek” and “tilt” positions on both the left hand and right hand sides of the phantom.

The positions used in the measurements were according to IEEE 1528 - 2003 "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate(SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques".

### **2.5.2. Body Worn Configuration**

Body-worn operating configurations should be tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in normal use configurations. Devices with a headset output should be tested with a headset connected to the device. The distance between the device and the phantom was kept 15mm.

Based upon KDB941225 D06, when the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested. The distance between the device and the phantom was kept 10mm of wireless routers.

### 3. SAR Measurements System Configuration

#### 3.1. SAR Measurement Set-up

The DASY4 system for performing compliance tests consists of the following items:

- A standard high precision 6-axis robot (Stäubli RX family) with controller and software. An arm extension for accommodating the data acquisition electronics (DAE).
- A dosimetric probe, i.e. an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
- A data acquisition electronic (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- A unit to operate the optical surface detector which is connected to the EOC.
- The Electro-Optical Coupler (EOC) performs the conversion from the optical into a digital electric signal of the DAE. The EOC is connected to the DASY4 measurement server.
- The DASY4 measurement server, which performs all real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operation. A computer operating Windows 2003
- DASY4 software and SEMCAD data evaluation software.
- Remote control with teach panel and additional circuitry for robot safety such as warning lamps, etc.
- The generic twin phantom enabling the testing of left-hand and right-hand usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- System validation dipoles allowing to validate the proper functioning of the system.

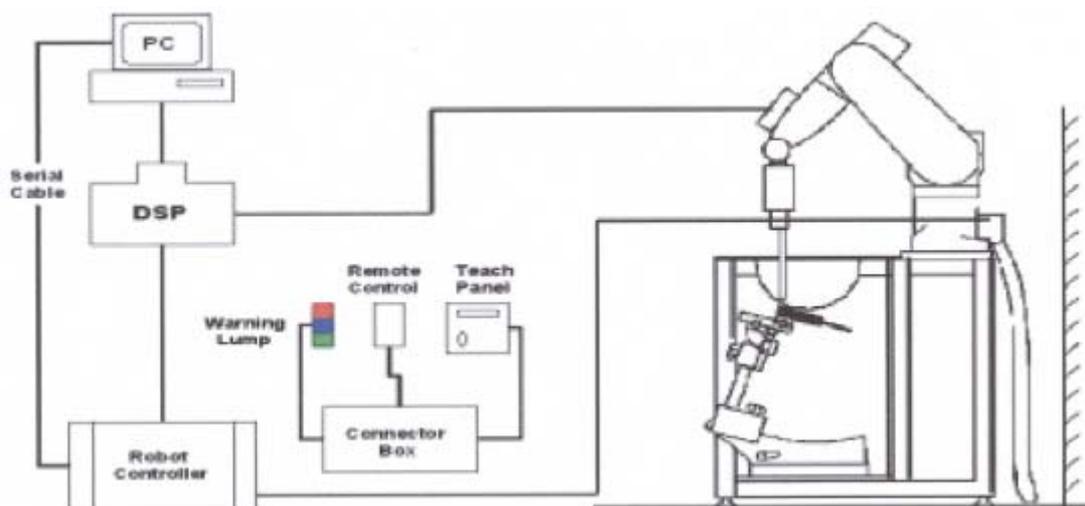


Figure 1. SAR Lab Test Measurement Set-up

### 3.2. DASY4 E-field Probe System

The SAR measurements were conducted with the dosimetric probe EX3DV4 (manufactured by SPEAG), designed in the classical triangular configuration and optimized for dosimetric evaluation.

#### 3.2.1. EX3DV4 Probe Specification

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 calibration service available
Frequency	10 MHz to > 6 GHz Linearity: $\pm 0.2$ dB (30 MHz to 6 GHz)
Directivity	$\pm 0.3$ dB in HSL (rotation around probe axis) $\pm 0.5$ dB in tissue material (rotation normal to probe axis)
Dynamic Range	10 $\mu$ W/g to > 100 mW/g Linearity: $\pm 0.2$ dB (noise: typically < 1 $\mu$ W/g)
Dimensions	Overall length: 330 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.



Figure 2. EX3DV4 E-field Probe



Figure 3. EX3DV4 E-field probe

### 3.2.2. E-field Probe Calibration

Each probe is calibrated according to a dosimetric assessment procedure with accuracy better than  $\pm 10\%$ . The spherical isotropy was evaluated and found to be better than  $\pm 0.25\text{dB}$ . The sensitivity parameters (NormX, NormY, NormZ), the diode compression parameter (DCP) and the conversion factor (ConvF) of the probe are tested.

The free space E-field from amplified probe outputs is determined in a test chamber. This is performed in a TEM cell for frequencies below 1 GHz, and in a wave guide above 1 GHz for free space. For the free space calibration, the probe is placed in the volumetric center of the cavity and at the proper orientation with the field. The probe is then rotated 360 degrees.

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

$$\text{SAR} = C \frac{\Delta T}{\Delta t}$$

Where:  $\Delta t$  = Exposure time (30 seconds),  
C = Heat capacity of tissue (brain or muscle),  
 $\Delta T$  = Temperature increase due to RF exposure.  
Or

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

Where:  
 $\sigma$  = Simulated tissue conductivity,  
 $\rho$  = Tissue density (kg/m<sup>3</sup>).

### 3.3. Other Test Equipment

#### 3.3.1. Device Holder for Transmitters

The DASY device holder is designed to cope with the die rent positions given in the standard. It has two scales for device rotation (with respect to the body axis) and device inclination (with respect to the line between the ear reference points). The rotation centers for both scales is the ear reference point (ERP). Thus the device needs no repositioning when changing the angles. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the inference of the clamp on the test results could thus be lowered.



**Figure 4. Device Holder**

### 3.3.2. Phantom

The Generic Twin Phantom is constructed of a fiberglass shell integrated in a wooden Figure. The shape of the shell is based on data from an anatomical study designed to determine the maximum exposure in at least 90% of all users. 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 the evaporation of the liquid. Reference markings on the Phantom allow the complete setup of all predefined phantom positions and measurement grids by manually teaching three points in the robot.

Shell Thickness	2±0.1 mm
Filling Volume	Approx. 20 liters
Dimensions	810 x 1000 x 500 mm (H x L x W)
Available	Special



**Figure 5. Generic Twin Phantom**

### 3.4. Scanning Procedure

The DASY4 installation includes predefined files with recommended procedures for measurements and validation. They are read-only document files and destined as fully defined but unmeasured masks. All test positions (head or body-worn) are tested with the same configuration of test steps differing only in the grid definition for the different test positions.

- The “reference” and “drift” measurements are located at the beginning and end of the batch process. They measure the field drift at one single point in the liquid over the complete procedure. The indicated drift is mainly the variation of the DUT’s output power and should vary max. ± 5 %.
- The “surface check” measurement tests the optical surface detection system of the DASY4 system by repeatedly detecting the surface with the optical and mechanical surface detector and comparing the results. The output gives the detecting heights of both systems, the difference between the two systems and the standard deviation of the detection repeatability. Air bubbles or refraction in the liquid due to separation of the sugar-water mixture gives poor repeatability (above ± 0.1mm). To prevent wrong results tests are only executed when the liquid is free of air bubbles. The difference between the optical surface detection and the actual surface depends on the probe and is specified with each probe. (It does not depend on the surface reflectivity or the probe angle to the surface within ± 30°.)
- Area Scan  
The Area Scan is used as a fast scan in two dimensions to find the area of high field values before running a detailed measurement around the hot spot. Before starting the area scan a grid

spacing of 15 mm x 15 mm is set. During the scan the distance of the probe to the phantom remains unchanged.

After finishing area scan, the field maxima within a range of 2 dB will be ascertained.

- Zoom Scan

Zoom Scans are used to estimate the peak spatial SAR values within a cubic averaging volume containing 1 g and 10 g of simulated tissue. The default Zoom Scan is done by 7x7x7 points within a cube whose base is centered around the maxima found in the preceding area scan.

- Spatial Peak Detection

The procedure for spatial peak SAR evaluation has been implemented and can determine values of masses of 1g and 10g, as well as for user-specific masses. The DASY4 system allows evaluations that combine measured data and robot positions, such as:

- maximum search
- extrapolation
- boundary correction
- peak search for averaged SAR

During a maximum search, global and local maxima searches are automatically performed in 2-D after each Area Scan measurement with at least 6 measurement points. It is based on the evaluation of the local SAR gradient calculated by the Quadratic Shepard's method. The algorithm will find the global maximum and all local maxima within -2 dB of the global maxima for all SAR distributions.

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. Several measurements at different distances are necessary for the extrapolation. Extrapolation routines require at least 10 measurement points in 3-D space. They are used in the Zoom Scan to obtain SAR values between the lowest measurement points and the inner phantom surface. The routine uses the modified Quadratic Shepard's method for extrapolation. For a grid using 7x7x7 measurement points with 5mm resolution amounting to 343 measurement points, the uncertainty of the extrapolation routines is less than 1% for 1g and 10g cubes.

- A Z-axis scan measures the total SAR value at the x-and y-position of the maximum SAR value found during the cube 7x7x7 scan. The probe is moved away in z-direction from the bottom of the SAM phantom in 5mm steps.

### **3.5. Data Storage and Evaluation**

#### **3.5.1. Data Storage**

The DASY4 software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension “.DA4”. The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be re-evaluated.

The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [mW/g], [mW/cm<sup>2</sup>], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

#### **3.5.2. Data Evaluation by SEMCAD**

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

Probe parameters:	- Sensitivity	Normi, a <sub>i0</sub> , a <sub>i1</sub> , a <sub>i2</sub>
	- Conversion factor	ConvF <sub>i</sub>
	- Diode compression point	Dcp <sub>i</sub>
Device parameters:	- Frequency	f
	- Crest factor	cf
Media parameters:	- Conductivity	
	- Density	

These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the DASY4 components. In the direct measuring mode of the multimeter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics.

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If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot c f / d c p_i$$

With  $V_i$  = compensated signal of channel i (i = x, y, z)

$U_i$  = input signal of channel i (i = x, y, z)

$cf$  = crest factor of exciting field (DASY parameter)

$dcp_i$  = diode compression point (DASY parameter)

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

E-field probes:  $E_i = (V_i / Norm_i \cdot ConvF)^{1/2}$

H-field probes:  $H_i = (V_i)^{1/2} \cdot (a_{i0} + a_{i1} f + a_{i2} f^2) / f$

With  $V_i$  = compensated signal of channel i (i = x, y, z)

$Norm_i$  = sensor sensitivity of channel i (i = x, y, z)  
[mV/(V/m)<sup>2</sup>] for E-field Probes

$ConvF$  = sensitivity enhancement in solution

$a_{ij}$  = sensor sensitivity factors for H-field probes

$f$  = carrier frequency [GHz]

$E_i$  = electric field strength of channel i in V/m

$H_i$  = magnetic field strength of channel i in A/m

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

$$E_{tot} = (E_x^2 + E_y^2 + E_z^2)^{1/2}$$

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

$$SAR = (E_{tot}^2 \cdot \rho) / ( \cdot 1000)$$

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with **SAR** = local specific absorption rate in mW/g

**$E_{tot}$**  = total field strength in V/m

**$\sigma$**  = conductivity in [mho/m] or [Siemens/m]

**$\rho$**  = equivalent tissue density in g/cm<sup>3</sup>

Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid. The power flow density is calculated assuming the excitation field to be a free space field.

$$P_{pwe} = E_{tot}^2 / 3770 \quad \text{or} \quad P_{pwe} = H_{tot}^2 \cdot 37.7$$

with  **$P_{pwe}$**  = equivalent power density of a plane wave in mW/cm<sup>2</sup>

**$E_{tot}$**  = total electric field strength in V/m

**$H_{tot}$**  = total magnetic field strength in A/m

### 3.6. System Check

The manufacturer calibrates the probes annually. Dielectric parameters of the tissue simulants were measured every day using the dielectric probe kit and the network analyser. A system check measurement was made following the determination of the dielectric parameters of the simulant, using the dipole validation kit. A power level of 250 mW was supplied to the dipole antenna, which was placed under the flat section of the twin SAM phantom. The system check results (dielectric parameters and SAR values) are given in the table 8 and table 9.

System check results have to be equal or near the values determined during dipole calibration with the relevant liquids and test system ( $\pm 10\%$ ).

System check is performed regularly on all frequency bands where tests are performed with the DASY4 system.

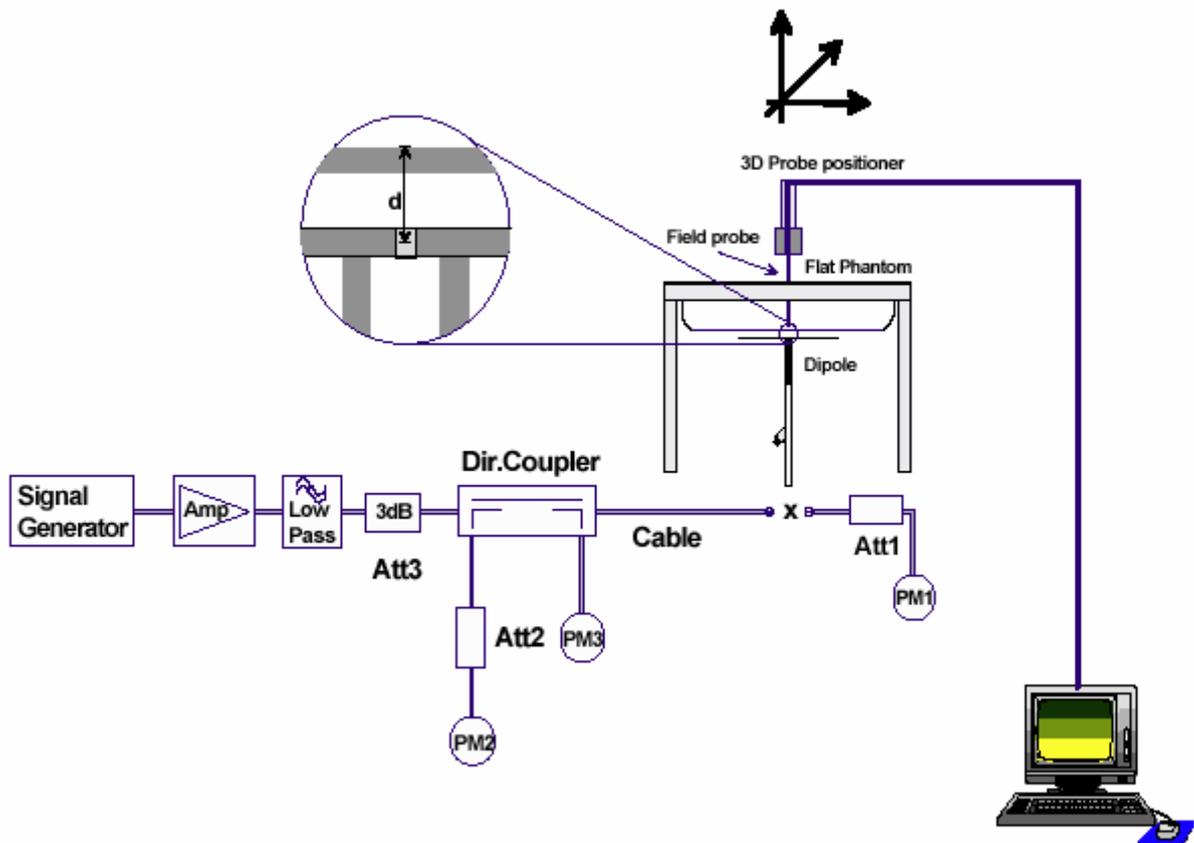


Figure 6. System Check Set-up

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**3.7. Equivalent Tissues**

The liquid is consisted of water, sugar, salt, Preventol, Glycol and Cellulose. The liquid has previously been proven to be suited for worst-case. The Table 2 and Table 3 show the detail solution. It's satisfying the latest tissue dielectric parameters requirements proposed by the OET 65.

**Table 2: Composition of the Head Tissue Equivalent Matter**

MIXTURE%	FREQUENCY(Brain) 835MHz
Water	41.45
Sugar	56
Salt	1.45
Preventol	0.1
Cellulose	1.0
Dielectric Parameters Target Value	f=835MHz $\epsilon=41.5$ $\sigma=0.9$

MIXTURE%	FREQUENCY(Brain) 1750MHz
Water	55.24
Glycol	44.45
Salt	0.31
Dielectric Parameters Target Value	f=1750MHz $\epsilon=40.1$ $\sigma=1.37$

MIXTURE%	FREQUENCY(Brain) 1900MHz
Water	55.242
Glycol monobutyl	44.452
Salt	0.306
Dielectric Parameters Target Value	f=1900MHz $\epsilon=40.0$ $\sigma=1.40$

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**Table 3: Composition of the Body Tissue Equivalent Matter**

MIXTURE%	FREQUENCY(Body) 835MHz
Water	52.5
Sugar	45
Salt	1.4
Preventol	0.1
Cellulose	1.0
Dielectric Parameters Target Value	f=835MHz $\epsilon=55.2$ $\sigma=0.97$

MIXTURE%	FREQUENCY(Body) 1750MHz
Water	69.91
Glycol	29.97
Salt	0.12
Dielectric Parameters Target Value	f=1750MHz $\epsilon=53.4$ $\sigma=1.49$

MIXTURE%	FREQUENCY(Body) 1900MHz
Water	69.91
Glycol	29.96
Salt	0.13
Dielectric Parameters Target Value	f=1900MHz $\epsilon=53.3$ $\sigma=1.52$

#### 4. Laboratory Environment

**Table 4: The Ambient Conditions during Test**

Temperature	Min. = 20°C, Max. = 25 °C
Relative humidity	Min. = 30%, Max. = 70%
Ground system resistance	< 0.5 $\Omega$
Ambient noise is checked and found very low and in compliance with requirement of standards. Reflection of surrounding objects is minimized and in compliance with requirement of standards.	

## **5. Characteristics of the Test**

### **5.1. Applicable Limit Regulations**

**IEEE Std C95.1, 1999:** IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 KHz to 300 GHz.

### **5.2. Applicable Measurement Standards**

**RSS-102 Issue 4 March 2010:** Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands).

**IEEE Std 1528™-2003:** IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques.

**SUPPLEMENT C Edition 01-01 to OET BULLETIN 65 Edition 97-01 June 2001 including DA 02-1438 June 19, 2002:** Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields Additional Information for Evaluation Compliance of Mobile and Portable Devices with FCC Limits for Human Exposure to Radiofrequency Emissions.

**KDB 941225 D06 Hot Spot SAR v01** SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities.

## 6. Conducted Output Power Measurement

### 6.1. Summary

The DUT is tested using an E5515C communications tester as controller unit to set test channels and maximum output power to the DUT, as well as for measuring the conducted power.

Conducted output power was measured using an integrated RF connector and attached RF cable.

This result contains conducted output power for the EUT.

### 6.2. Conducted Power Results

**Table 5: Conducted Power Measurement Results**

CDMA Cellular		Conducted Power(dBm)		
		Channel 1013	Channel 384	Channel 777
RC3	Before test	24.59	24.63	24.67
	After test	24.58	24.61	24.66
RC1	Before test	24.57	24.59	24.58
EVDO Rev.0	Before test	24.44	24.33	24.41
	After test	24.42	24.34	24.42
EVDO Rev.A	Before test	24.31	24.38	24.36
	After test	24.32	24.37	24.35
CDMA PCS		Conducted Power(dBm)		
		Channel 25	Channel 600	Channel 1175
RC3	Before test	23.93	24.09	23.92
	After test	23.91	24.08	23.91
RC1	Before test	23.90	24.08	23.81
EVDO Rev.0	Before test	23.64	23.91	23.79
	After test	23.62	23.90	23.77
EVDO Rev.A	Before test	23.48	23.72	23.80
	After test	23.46	23.73	23.79
CDMA AWS		Conducted Power(dBm)		
		Channel 25	Channel 450	Channel 850
RC3	Before test	24.06	23.98	24.03
	After test	24.05	23.97	24.02
RC1	Before test	24.01	23.90	23.92
EVDO Rev.0	Before test	23.92	23.85	23.87
	After test	23.91	23.83	23.88
EVDO Rev.A	Before test	23.91	23.69	23.81
	After test	23.90	23.68	23.80

## 7. Test Results

### 7.1. Dielectric Performance

**Table 6: Dielectric Performance of Head Tissue Simulating Liquid**

Frequency	Description	Dielectric Parameters		Temp ℃
		$\epsilon_r$	$\sigma$ (s/m)	
<b>835MHz (head)</b>	Target value ±5% window	41.5 39.43 — 43.58	0.90 0.86 — 0.95	/
	Measurement value 2011-4-28	41.76	0.90	21.7
<b>1750MHz (head)</b>	Target value ±5% window	40.1 38.10 — 42.11	1.37 1.30 — 1.44	/
	Measurement value 2011-4-28	39.32	1.37	21.9
<b>1900MHz (head)</b>	Target value ±5% window	40.00 38.00 — 42.00	1.40 1.33 — 1.47	/
	Measurement value 2011-4-29	39.98	1.41	21.8
<b>2450MHz (head)</b>	Target value ±5% window	39.20 37.24 — 41.16	1.80 1.71 — 1.89	/
	Measurement value 2011-5-3	39.1	1.81	21.7

**Table 7: Dielectric Performance of Body Tissue Simulating Liquid**

Frequency	Description	Dielectric Parameters		Temp ℃
		$\epsilon_r$	$\sigma$ (s/m)	
<b>835MHz (body)</b>	Target value ±5% window	55.20 52.44 — 57.96	0.97 0.92 — 1.02	/
	Measurement value 2011-4-28	56.25	0.99	21.9
<b>1750MHz (body)</b>	Target value ±5% window	53.4 50.73 — 56.07	1.49 1.42 — 1.56	/
	Measurement value 2011-4-29	52.35	1.48	21.8
<b>1900MHz (body)</b>	Target value ±5% window	53.3 50.64 — 55.97	1.52 1.44 — 1.60	/
	Measurement value 2011-5-2	53.18	1.53	21.8
<b>2450MHz (body)</b>	Target value ±5% window	52.70 50.07 — 55.34	1.95 1.85 — 2.05	/
	Measurement value 2011-5-3	51.19	1.94	21.8

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**7.2. System Check**

**Table 8: System Checking for Head Tissue Simulating Liquid**

Frequency	Description	SAR(W/kg)		Dielectric Parameters		Temp
		10g	1g	$\epsilon_r$	$\sigma$ (s/m)	°C
835MHz	Recommended value ±10% window	1.56 1.40 — 1.72	2.39 2.15 — 2.63	41.2	0.89	/
	Measurement value 2011-4-28	1.51	2.32	41.76	0.90	21.7
1750 MHz	Recommended value ±10% window	4.74 4.27 - 5.21	8.86 7.97 – 9.75	39.8	1.33	/
	Measurement value 2011-4-28	4.59	8.79	39.32	1.37	21.9
1900 MHz	Recommended value ±10% window	5.22 4.70 – 5.74	10.00 9.00 - 11.00	39.5	1.44	/
	Measurement value 2011-4-29	5.45	10.58	39.98	1.41	21.8
2450 MHz	Recommended result ±10% window	6.24 5.62 — 6.86	13.3 11.97—14.63	38.7	1.77	/
	Measurement value 2011-5-3	6.50	14.05	39.1	1.81	21.7

Note: 1. The graph results see ANNEX B.

2. Recommended Values used derive from the calibration certificate and 250 mW is used as feeding power to the calibrated dipole.

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**Table 9: System Check for Body Tissue Simulating Liquid**

Frequency	Description	SAR(W/kg)		Dielectric Parameters		Temp
		10g	1g	$\epsilon_r$	$\sigma$ (s/m)	°C
835MHz	Recommended value ±10% window	1.63 1.47 — 1.79	2.49 2.24 — 2.74	54.6	0.98	/
	Measurement value 2011-4-28	1.59	2.41	56.25	0.99	21.9
1750 MHz	Recommended value ±10% window	5.11 4.60 — 5.62	9.37 8.43 — 10.31	54.1	1.43	/
	Measurement value 2011-4-29	4.92	9.25	52.35	1.48	21.8
1900 MHz	Recommended value ±10% window	5.52 4.97 — 6.57	10.30 9.27 — 11.33	53.5	1.54	/
	Measurement value 2011-5-2	5.35	10.12	53.18	1.53	21.8
2450 MHz	Recommended result ±10% window	5.97 5.37 — 6.57	13 11.7—14.3	51.8	2.01	/
	Measurement value 2011-5-3	6.46	14.00	51.19	1.94	21.8

Note: 1. The graph results see ANNEX B.

2. Recommended Values used derive from the calibration certificate and 250 mW is used as feeding power to the calibrated dipole.

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**7.3. Summary of Measurement Results**

**7.3.1. CDMA Cellular (CDMA/EVDO)**

**Table 10: SAR Values [CDMA Cellular (CDMA/EVDO), HUAWEI M865/M865 (original)]**

Limit of SAR		10 g Average	1 g Average	Power Drift	Graph Results
		2.0 W/kg	1.6 W/kg	± 0.21 dB	
Different Test Position	Channel	Measurement Result(W/kg)		Power Drift (dB)	
		10 g Average	1 g Average		
<b>Test Position of Head</b>					
Left hand, Touch cheek	Middle/384	0.403	0.535	0.096	Figure 15
Left hand, Tilt 15 Degree	Middle/384	0.271	0.349	0.018	Figure 16
Right hand, Touch cheek	High/777	0.548	0.720	-0.011	Figure 17
	Middle/384	0.430	0.567	-0.016	Figure 18
	Low/1013	0.476	0.621	-0.020	Figure 19
Right hand, Tilt 15 Degree	Middle/384	0.297	0.385	-0.001	Figure 20
<b>Test Position of Body (Distance 15mm)</b>					
Towards Ground	High/777	0.660(max.cube)	0.901(max.cube)	-0.044	Figure 21
	Middle/384	0.667(max.cube)	0.906(max.cube)	0.076	Figure 22
	Low/1013	0.753(max.cube)	1.020(max.cube)	0.000	Figure 23
Towards Phantom	Middle/384	0.432	0.572	-0.154	Figure 24
<b>Worst Case Position of Body with EVDO Rev.0(Distance 15mm)</b>					
Towards Ground	Low/1013	0.708(max.cube)	1.000(max.cube)	-0.070	Figure 25
<b>Worst Case Position of Body with EVDO Rev.A(Distance 15mm)</b>					
Towards Ground	Low/1013	0.739	1.010	-0.063	Figure 26
<b>Worst Case Position of Body with Earphone (Distance 15mm)</b>					
Towards Ground	Low/1013	0.562(max.cube)	0.762(max.cube)	0.025	Figure 27

Note: 1. The value with blue color is the maximum SAR Value of each test band.

2. Upper and lower frequencies were measured at the worst position.
3. The SAR test shall be performed at the high, middle and low frequency channels of each operating mode. If the SAR measured at mid-band channel for each test configuration is at least 3.0 dB lower than the SAR<sub>1g</sub> limit (< 0.8W/kg), testing at the high and low channels is optional.
4. The (max.cube) labeling indicates that during the grid scanning an additional peak was found which was within 2.0dB of the highest peak. The value of the highest cube is given in the table above.

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**Table 11: SAR Values [CDMA Cellular (wireless routers incorporated in device), HUAWEI M865/M865 (new)]**

Limit of SAR		10 g Average	1 g Average	Power	Graph Results
		2.0 W/kg	1.6 W/kg	± 0.21 dB	
Different Test Position	Channel	Measurement Result(W/kg)		Power Drift (dB)	
		10 g Average	1 g Average		
<b>Test position of Body with EVDO Rev.0 (Distance 10mm)</b>					
Towards Ground	High/777	0.867(max.cube)	1.210(max.cube)	-0.010	Figure 28
	Middle/384	0.877(max.cube)	1.190(max.cube)	-0.015	Figure 29
	Low/1013	0.965(max.cube)	1.320(max.cube)	-0.166	Figure 30
Towards Phantom	Middle/384	0.508	0.673	-0.037	Figure 31
Left Edge	Middle/384	0.363	0.527	0.025	Figure 32
Right Edge	Middle/384	0.411	0.600	-0.034	Figure 33
Bottom Edge	Middle/384	0.059	0.090	-0.020	Figure 34
Top Edge	Middle/384	N/A	N/A	N/A	N/A
<b>Worst Case Position of Body with 1XRTT (Distance 10mm)</b>					
Towards Ground	Low/1013	0.944(max.cube)	1.290(max.cube)	-0.096	Figure 35
<b>Worst Case Position of Body with EVDO Rev.A (Distance 10mm)</b>					
Towards Ground	Low/1013	0.957(max.cube)	1.320(max.cube)	0.030	Figure 36

Note: 1.The value with blue color is the maximum SAR Value of each test band.

2. Upper and lower frequencies were measured at the worst position.
3. WWAN antenna is located at bottom edge; antenna-to-top edge distance is more than 2.5 cm (see ANNEX J). Based upon KDB941225 D06, when the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested. Top Edge with 1 cm separation distance is excluded from SAR evaluation.
4. The (max.cube) labeling indicates that during the grid scanning an additional peak was found which was within 2.0dB of the highest peak. The value of the highest cube is given in the table above.

**Table 12: Extrapolated SAR Values of highest measured SAR [CDMA Cellular (CDMA/EVDO)]**

Test Position	Channel	Conducted Power(dBm)	1g Average (W/kg)	Tune-up procedures	1g Average Limit 1.6 W/kg
		Measurement Result		MAX Power(dBm)	Extrapolated Result (W/kg)
Towards Ground	Low/1013	24.44	1.320	24.8	1.434

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### 7.3.2. CDMA PCS (CDMA/EVDO)

**Table 13: SAR Values [CDMA PCS (CDMA/EVDO), HUAWEI M865/M865 (original)]**

Limit of SAR		10 g Average	1 g Average	Power Drift	Graph Results
		2.0 W/kg	1.6 W/kg	± 0.21 dB	
Different Test Position	Channel	Measurement Result(W/kg)		Power Drift (dB)	
		10 g Average	1 g Average		
<b>Test Position of Head</b>					
Left hand, Touch cheek	High/1175	0.582	0.967	-0.085	Figure 37
	Middle/600	0.663	1.090	0.198	Figure 38
	Low/25	0.649	1.050	-0.012	Figure 39
Left hand, Tilt 15 Degree	Middle/600	0.302	0.493	-0.050	Figure 40
Right hand, Touch cheek	High/1175	0.741	1.260	-0.095	Figure 41
	Middle/600	0.808	1.330	-0.002	Figure 42
	Low/25	0.821	1.340	-0.002	Figure 43
Right hand, Tilt 15 Degree	Middle/600	0.306	0.515	-0.032	Figure 44
<b>Test Position of Body (Distance 15mm)</b>					
Towards Ground	Middle/600	0.318(max.cube)	0.526(max.cube)	0.063	Figure 45
Towards Phantom	High/1175	0.380	0.629	-0.069	Figure 46
	Middle/600	0.407	0.672	-0.006	Figure 47
	Low/25	0.369	0.603	-0.083	Figure 48
<b>Worst Case Position of Body with EVDO Rev.0</b>					
Towards Phantom	Middle/600	0.388	0.640	0.002	Figure 49
<b>Worst Case Position of Body with EVDO Rev.A</b>					
Towards Phantom	Middle/600	0.405	0.664	-0.002	Figure 50
<b>Worst Case Position of Body with Earphone (Distance 15mm)</b>					
Towards Phantom	Middle/600	0.383	0.631	-0.032	Figure 51

Note: 1. The value with blue color is the maximum SAR Value of each test band.

2. Upper and lower frequencies were measured at the worst position.
3. The SAR test shall be performed at the high, middle and low frequency channels of each operating mode. If the SAR measured at mid-band channel for each test configuration is at least 3.0 dB lower than the SAR<sub>1g</sub> limit (< 0.8W/kg), testing at the high and low channels is optional.
4. The (max.cube) labeling indicates that during the grid scanning an additional peak was found which was within 2.0dB of the highest peak. The value of the highest cube is given in the table above.

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**Table 14: SAR Values [CDMA PCS (wireless routers incorporated in device), HUAWEI M865/M865 (new)]**

Limit of SAR		10 g Average	1 g Average	Power	Graph Results
		2.0 W/kg	1.6 W/kg	± 0.21 dB	
Different Test Position	Channel	Measurement Result(W/kg)		Power Drift (dB)	
		10 g Average	1 g Average		
<b>Test position of Body with EVDO Rev.0 (Distance 10mm)</b>					
Towards Ground	High/1175	0.476(max.cube)	0.800(max.cube)	-0.074	Figure 52
	Middle/600	0.621(max.cube)	1.080(max.cube)	0.015	Figure 53
	Low/25	0.573(max.cube)	1.050(max.cube)	-0.160	Figure 54
Towards Phantom	High/1175	0.630	1.050	0.034	Figure 55
	Middle/600	0.691	1.110	0.071	Figure 56
	Low/25	0.676	1.100	-0.022	Figure 57
Left Edge	Middle/600	0.253(max.cube)	0.437(max.cube)	-0.013	Figure 58
Right Edge	Middle/600	0.211(max.cube)	0.373(max.cube)	-0.023	Figure 59
Bottom Edge	Middle/600	0.367	0.646	-0.099	Figure 60
Top Edge	Middle/600	N/A	N/A	N/A	N/A
<b>Worst Case Position of Body with 1XRTT (Distance 10mm)</b>					
Towards Phantom	Middle/600	0.574	0.937	-0.073	Figure 61
<b>Worst Case Position of Body with EVDO Rev.A (Distance 10mm)</b>					
Towards Phantom	Middle/600	0.570	0.933	-0.098	Figure 62

Note: 1.The value with blue color is the maximum SAR Value of each test band.

2. Upper and lower frequencies were measured at the worst position.
3. WWAN antenna is located at bottom edge; antenna-to-top edge distance is more than 2.5 cm(see ANNEX J). Based upon KDB941225 D06, when the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested. Top Edge with 1 cm separation distance is excluded from SAR evaluation.
4. The (max.cube) labeling indicates that during the grid scanning an additional peak was found which was within 2.0dB of the highest peak. The value of the highest cube is given in the table above.

**Table 15: Extrapolated SAR Values of highest measured SAR [CDMA PCS (CDMA/EVDO)]**

Test Position	Channel	Conducted Power(dBm)	1g Average (W/kg)	Tune-up procedures	1g Average Limit 1.6 W/kg
		Measurement Result		MAX Power(dBm)	Extrapolated Result (W/kg)
Right hand, Touch cheek	Low/25	23.93	1.340	24.6	1.564

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### 7.3.3. CDMA AWS (CDMA/EVDO)

**Table 16: SAR Values [CDMA AWS (CDMA/EVDO), HUAWEI M865/M865 (original)]**

Limit of SAR		10 g Average	1 g Average	Power Drift	Graph Results
		2.0 W/kg	1.6 W/kg	± 0.21dB	
Different Test Position	Channel	Measurement Result(W/kg)		Power Drift (dB)	
		10 g Average	1 g Average		
<b>Test Position of Head</b>					
Left hand, Touch cheek	High/850	0.500	0.815	-0.074	Figure 63
	Middle/450	0.388	0.629	0.017	Figure 64
	Low/25	0.351	0.563	-0.089	Figure 65
Left hand, Tilt 15 Degree	Middle/450	0.165	0.257	0.033	Figure 66
Right hand, Touch cheek	Middle/450	0.394	0.617	-0.054	Figure 67
Right hand, Tilt 15 Degree	Middle/450	0.170	0.272	-0.007	Figure 68
<b>Test Position of Body (Distance 15mm)</b>					
Towards Ground	Middle/450	0.294	0.474	-0.136	Figure 69
Towards Phantom	High/850	0.436	0.690	-0.151	Figure 70
	Middle/450	0.347	0.546	-0.147	Figure 71
	Low/25	0.286	0.449	-0.091	Figure 72
<b>Worst Case Position of Body with EVDO Rev.0(Distance 15mm)</b>					
Towards Phantom	High/850	0.401	0.634	0.182	Figure 73
<b>Worst Case Position of Body with EVDO Rev.A(Distance 15mm)</b>					
Towards Phantom	High/850	0.440	0.692	-0.118	Figure 74
<b>Worst Case Position of Body with Earphone (Distance 15mm)</b>					
Towards Phantom	High/850	0.415	0.658	0.012	Figure 75

Note: 1. The value with blue color is the maximum SAR Value of test case in each test band.

2. Upper and lower frequencies were measured at the worst position.
3. The SAR test shall be performed at the high, middle and low frequency channels of each operating mode. If the SAR measured at mid-band channel for each test configuration is at least 3.0 dB lower than the SAR<sub>1g</sub> limit (< 0.8W/kg), testing at the high and low channels is optional.

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**Table 17: SAR Values [CDMA AWS (wireless routers incorporated in device), HUAWEI M865/M865 (new)]**

Limit of SAR		10 g Average	1 g Average	Power	Graph Results
		2.0 W/kg	1.6 W/kg	± 0.21 dB	
Different Test Position	Channel	Measurement Result(W/kg)		Power Drift (dB)	
		10 g Average	1 g Average		
<b>Test position of Body with EVDO Rev.0 (Distance 10mm)</b>					
Towards Ground	Middle/450	0.405	0.655	-0.040	Figure 76
Towards Phantom	High/850	0.572	0.938	-0.072	Figure 77
	Middle/450	0.472	0.748	-0.102	Figure 78
	Low/25	0.425	0.674	-0.080	Figure 79
Left Edge	Middle/450	0.156(max.cube)	0.260(max.cube)	-0.112	Figure 80
Right Edge	Middle/450	0.109	0.175	-0.172	Figure 81
Bottom Edge	Middle/450	0.329	0.555	0.015	Figure 82
Top Edge	Middle/450	N/A	N/A	N/A	N/A
<b>Worst Case Position of Body with 1XRTT (Distance 10mm)</b>					
Towards Phantom	High/850	0.536	0.845	-0.042	Figure 83
<b>Worst Case Position of Body with EVDO Rev.A (Distance 10mm)</b>					
Towards Phantom	High/850	0.607	0.969	-0.037	Figure 84

Note: 1.The value with blue color is the maximum SAR Value of each test band.

2. Upper and lower frequencies were measured at the worst position.
3. WWAN antenna is located at bottom edge; antenna-to-top edge distance is more than 2.5 cm(see ANNEX J). Based upon KDB941225 D06 , when the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested. Top Edge with 1 cm separation distance is excluded from SAR evaluation.
4. The (max.cube) labeling indicates that during the grid scanning an additional peak was found which was within 2.0dB of the highest peak. The value of the highest cube is given in the table above.

**Table 18: Extrapolated SAR Values of highest measured SAR [CDMA AWS (CDMA/EVDO)]**

Test Position	Channel	Conducted Power(dBm)	1g Average (W/kg)	Tune-up procedures	1g Average Limit 1.6 W/kg
		Measurement Result		MAX Power(dBm)	Extrapolated Result (W/kg)
Towards Phantom	High/850	23.81	0.969	25.2	1.335

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### 7.3.4. Bluetooth/WIFI Function

The distance between BT/WIFI antenna and CDMA antenna is <5 cm. The location of the antennas inside mobile phone is shown in ANNEX J.

#### Output Power Thresholds for Unlicensed Transmitters

	2.45	5.15 - 5.35	5.47 - 5.85	GHz
P <sub>Ref</sub>	12	6	5	mW
Device output power should be rounded to the nearest mW to compare with values specified in this table.				

The output power of BT antenna is as following:

Channel	Ch 0 2402 MHz	Ch 39 2441 Mhz	Ch 78 2480 MHz
Peak Conducted Output Power(dBm)	7.25	7.37	7.23

The output power of WIFI antenna is as following:

Channel	Mode	Data rate (Mbps)	AV Power (dBm)	PK Power (dBm)		
1	11b	1	Before	13.71	17.41	
			After	13.79	17.43	
		2	Before	13.66	17.67	
			5.5	Before	13.77	17.52
	11g	11	Before	14.18	17.89	
			6	Before	10.65	17.22
			9	Before	10.85	17.37
			12	Before	10.61	17.48
			18	Before	10.64	17.54
			24	Before	10.76	17.38
			36	Before	10.81	17.41
			48	Before	10.81	17.54
			54	Before	10.92	17.68
			11n HT20	11n HT20	6.5	Before
	13	Before			7.84	14.35
	19.5	Before			7.99	14.71
	26	Before			8.18	14.81
	39	Before			8.21	14.59
52	Before	8.39			14.71	
58.5	Before	8.43			14.46	
65	Before	8.44	14.55			
6	11b	1	Before	13.58	17.98	
			After	13.61	17.99	

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		2	Before	13.78	17.78
		5.5	Before	13.88	17.75
		11	Before	14.22	17.89
	11g	6	Before	9.58	16.26
		9	Before	9.38	16.49
		12	Before	9.41	16.68
		18	Before	9.42	16.54
		24	Before	9.51	16.89
		36	Before	9.35	16.49
		48	Before	9.44	16.88
		54	Before	9.61	16.91
		11n HT20	6.5	Before	7.28
	13		Before	7.35	14.37
	19.5		Before	7.26	14.48
	26		Before	7.31	14.26
	39		Before	7.15	14.39
	52		Before	7.16	14.74
	58.5		Before	7.33	14.64
	65		Before	7.41	14.45
	11	11b	1	Before	13.71
After				13.79	17.61
2			Before	13.69	17.58
5.5			Before	13.56	17.61
11			Before	14.19	17.47
11g		6	Before	8.38	17.53
		9	Before	8.29	17.63
		12	Before	8.34	17.43
		18	Before	8.29	17.55
		24	Before	8.43	17.57
		36	Before	8.37	17.73
		48	Before	8.55	17.66
		54	Before	8.67	17.52
11n HT20		6.5	Before	6.75	15.35
		13	Before	6.69	15.29
		19.5	Before	6.56	15.21
		26	Before	6.43	15.65
		39	Before	6.63	15.46
		52	Before	6.49	15.49
		58.5	Before	6.54	15.83
	65	Before	6.91	15.42	

### Stand-alone SAR

According to the output power measurement result and the distance between BT antenna and CDMA antenna we can draw the conclusion that:

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stand-alone SAR are not required for BT, because the output power of BT transmitter is  $< P_{Ref}=10.8\text{dBm}$  and its antenna is  $<5\text{cm}$  and  $\geq 2.5\text{cm}$  from CDMA antenna;

stand-alone SAR are not required for BT, because the output power of BT transmitter is  $< P_{Ref}=10.8\text{dBm}$  and its antenna is  $<2.5\text{cm}$  from WiFi antenna.

stand-alone SAR are required for WIFI, because the output power of WIFI transmitter is  $>P_{Ref}=10.8\text{dBm}$  and its antenna is  $<5\text{cm}$  and  $\geq 2.5\text{cm}$  from CDMA antenna.

**Table 19: SAR Values [802.11b, HUAWEI M865/M865 (original)]**

Limit of SAR		10 g Average	1 g Average	Power Drift	Graph Results
		2.0 W/kg	1.6 W/kg	$\pm 0.21\text{dB}$	
Different Test Position	Channel	Measurement Result(W/kg)		Power Drift (dB)	
		10 g Average	1 g Average		
<b>Test Position of Head</b>					
Left hand, Touch cheek	Middle/6	0.094	0.203	0.031	Figure 85
Left hand, Tilt 15 Degree	Middle/6	0.032	0.063	-0.047	Figure 86
Right hand, Touch cheek	High/11	0.058	0.124	-0.045	Figure 87
	Middle/6	0.110	0.230	-0.163	Figure 88
	Low/1	0.115	0.245	0.012	Figure 89
Right hand, Tilt 15 Degree	Middle/6	0.040	0.073	-0.010	Figure 90
<b>Test Position of Body (Distance 15mm)</b>					
Towards Ground	High/11	0.019	0.033	0.098	Figure 91
	Middle/6	0.029	0.050	0.025	Figure 92
	Low/1	0.031	0.053	0.064	Figure 93
Towards Phantom	Middle/6	0.012	0.020	0.041	Figure 94
<b>Worst Case Position of Body with Earphone (Distance 15mm)</b>					
Towards Ground	Low/1	0.028	0.056	0.004	Figure 95

Note: 1. The value with blue color is the maximum SAR Value of test case in each test band.

2. Upper and lower frequencies were measured at the worst position.
3. The SAR test shall be performed at the high, middle and low frequency channels of each operating mode. If the SAR measured at mid-band channel for each test configuration is at least 3.0 dB lower than the SAR<sub>1g</sub> limit ( $< 0.8\text{W/kg}$ ), testing at the high and low channels is optional.

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**Table 20: SAR Values [802.11b (wireless routers incorporated in device), HUAWEI M865/M865 (new)]**

Limit of SAR		10 g Average	1 g Average	Power	Graph Results
		2.0 W/kg	1.6 W/kg	± 0.21 dB	
Different Test Position	Channel	Measurement Result(W/kg)		Power Drift (dB)	
		10 g Average	1 g Average		
<b>Test position of Body (Distance 10mm)</b>					
Towards Ground	High/11	0.073	0.160	-0.182	Figure 96
	Middle/6	0.052	0.115	0.004	Figure 97
	Low/1	0.063	0.137	-0.158	Figure 98
Towards Phantom	Middle/6	0.020	0.038	-0.016	Figure 99
Left Edge	Middle/6	0.050	0.100	-0.057	Figure 100
Right Edge	Middle/6	N/A	N/A	N/A	N/A
Bottom Edge	Middle/6	N/A	N/A	N/A	N/A
Top Edge	Middle/6	N/A	N/A	N/A	N/A

Note: 1. The value with blue color is the maximum SAR Value of each test band.

2. Upper and lower frequencies were measured at the worst position.
3. WLAN antenna is located at left edge; antenna-to-top/bottom/right edge distance is more than 2.5 cm (see ANNEX J). Based upon KDB941225 D06, when the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested. Top/Bottom/Right Edge with 1 cm separation distance is excluded from SAR evaluation.

### Simultaneous SAR

About BT and CDMA antennas, because stand-alone SAR is not required for BT, so Simultaneous SAR are not required for BT and CDMA antennas.

About WIFI and CDMA antennas, WIFI antenna is <5cm and ≥2.5cm from CDMA antenna. (CDMA antenna SAR<sub>MAX</sub>)1.34 +( WIFI antenna SAR<sub>MAX</sub>)0.245=1.585 <1.6 W/kg, it is not required to be evaluated the ratio of the summed max SAR and the distance between the peaks. It was additionally evaluated in this SAR report.

$$\text{Ratio} = (\text{SAR}_1 + \text{SAR}_2) / \text{Distance}(\text{cm})$$

The position SAR1 is (66.47,-251.7), the position SAR2 is (61.1,-312.3), so the distance between the SAR1 and SAR2 is 6.08cm.

Thus [(CDMA antenna SAR<sub>MAX</sub>)1.34+( WIFI antenna SAR<sub>MAX</sub>)0.245] /Peak SAR Location Separation =1.585/6.08=0.26<0.3, so Simultaneous SAR are not required for WIFI and CDMA Antenna.

About BT and WIFI antennas, because stand-alone SAR is not required for BT, so Simultaneous SAR are not required for BT and WIFI antennas.

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## 8. Measurement Uncertainty

No.	source	Type	Uncertainty Value (%)	Probability Distribution	k	c <sub>i</sub>	Standard uncertainty u <sub>i</sub> (%)	Degree of freedom V <sub>eff</sub> or V <sub>i</sub>
1	System repetivity	A	0.5	N	1	1	0.5	9
Measurement system								
2	-probe calibration	B	5.9	N	1	1	5.9	∞
3	-axial isotropy of the probe	B	4.7	R	$\sqrt{3}$	$\sqrt{0.5}$	1.9	∞
4	- Hemispherical isotropy of the probe	B	9.4	R	$\sqrt{3}$	$\sqrt{0.5}$	3.9	∞
6	-boundary effect	B	1.9	R	$\sqrt{3}$	1	1.1	∞
7	-probe linearity	B	4.7	R	$\sqrt{3}$	1	2.7	∞
8	- System detection limits	B	1.0	R	$\sqrt{3}$	1	0.6	∞
9	-readout Electronics	B	1.0	N	1	1	1.0	∞
10	-response time	B	0	R	$\sqrt{3}$	1	0	∞
11	-integration time	B	4.32	R	$\sqrt{3}$	1	2.5	∞
12	-noise	B	0	R	$\sqrt{3}$	1	0	∞
13	-RF Ambient Conditions	B	3	R	$\sqrt{3}$	1	1.73	∞
14	-Probe Positioner Mechanical Tolerance	B	0.4	R	$\sqrt{3}$	1	0.2	∞
15	-Probe Positioning with respect to Phantom Shell	B	2.9	R	$\sqrt{3}$	1	1.7	∞
16	-Extrapolation, interpolation and Integration Algorithms for Max. SAR Evaluation	B	3.9	R	$\sqrt{3}$	1	2.3	∞
Test sample Related								
17	-Test Sample Positioning	A	2.9	N	1	1	4.92	71
18	-Device Holder Uncertainty	A	4.1	N	1	1	4.1	5
19	-Output Power Variation - SAR drift measurement	B	5.0	R	$\sqrt{3}$	1	2.9	∞
Physical parameter								
20	-phantom	B	4.0	R	$\sqrt{3}$	1	2.3	∞

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21	-liquid conductivity (deviation from target)	B	5.0	R	$\sqrt{3}$	0.64	1.8	$\infty$
22	-liquid conductivity (measurement uncertainty)	B	0.77	N	1	0.64	0.493	9
23	-liquid permittivity (deviation from target)	B	5.0	R	$\sqrt{3}$	0.6	1.7	$\infty$
24	-liquid permittivity (measurement uncertainty)	B	0.29	N	1	0.6	0.174	9
Combined standard uncertainty		$u_c = \sqrt{\sum_{i=1}^{21} c_i^2 u_i^2}$					11.36	
Expanded uncertainty (confidence interval of 95 %)		$u_e = 2u_c$		N	k=2	22.72		

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## 9. Main Test Instruments

**Table 21: List of Main Instruments**

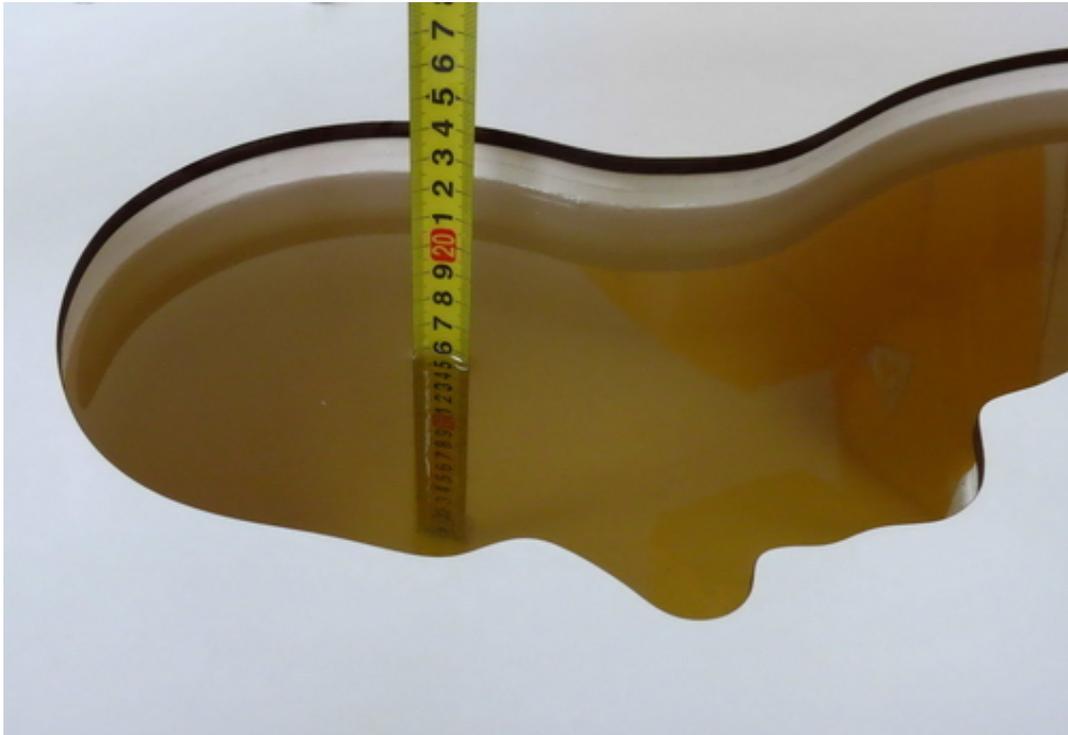
No.	Name	Type	Serial Number	Calibration Date	Valid Period
01	Network analyzer	Agilent 8753E	US37390326	September 13, 2010	One year
02	Dielectric Probe Kit	Agilent 85070E	US44020115	No Calibration Requested	
03	Power meter	Agilent E4417A	GB41291714	March 12, 2011	One year
04	Power sensor	Agilent N8481H	MY50350004	September 26, 2010	One year
05	Signal Generator	HP 8341B	2730A00804	September 13, 2010	One year
06	Amplifier	IXA-020	0401	No Calibration Requested	
07	BTS	E5515C	MY48360988	December 3, 2010	One year
08	E-field Probe	EX3DV4	3677	November 24, 2010	One year
09	DAE	DAE4	871	November 18, 2010	One year
10	Validation Kit 835MHz	D835V2	4d092	January 14, 2010	Two years
11	Validation Kit 1750MHz	D1750V2	1033	May 17, 2010	Two years
12	Validation Kit 1900MHz	D1900V2	5d018	June 15, 2010	Two years
13	Validation Kit 2450MHz	D2450V2	712	February 19, 2010	Two years

\*\*\*\*\*END OF REPORT BODY\*\*\*\*\*

## ANNEX A: Test Layout



Picture 1: Specific Absorption Rate Test Layout



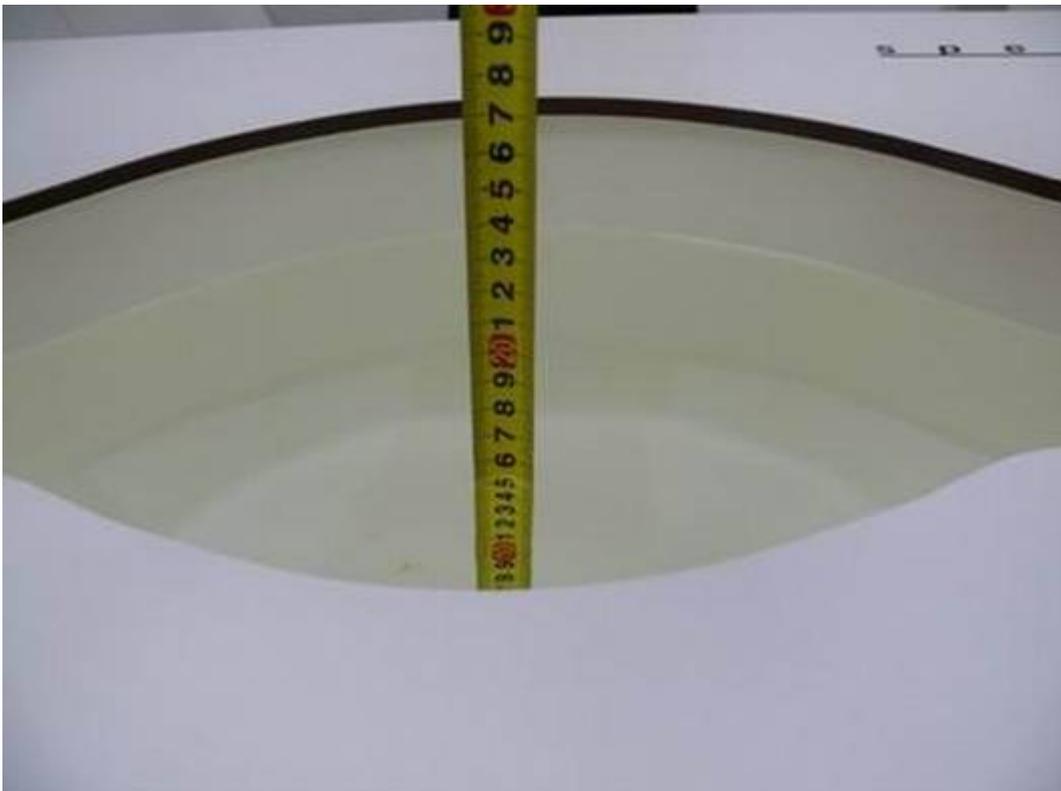
Picture 2: Liquid depth in the head Phantom (835MHz, 15.3cm depth)



Picture 3: Liquid depth in the Flat Phantom (835 MHz, 15.4cm depth)



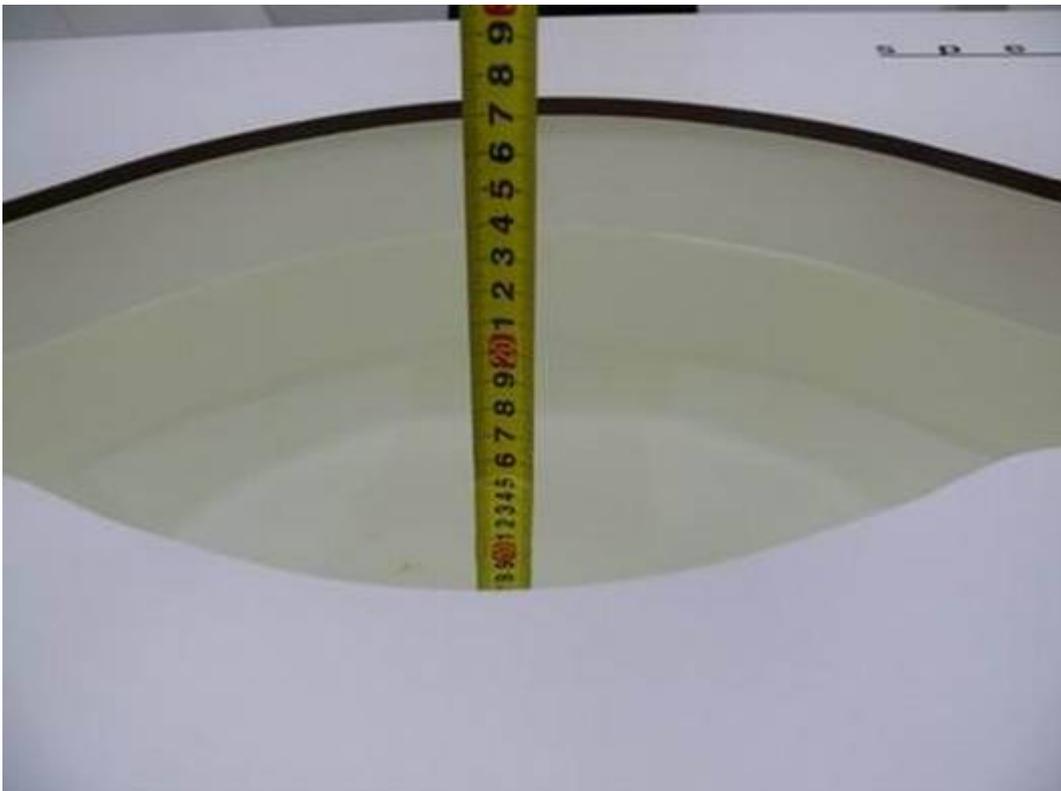
Picture 4: liquid depth in the head Phantom (1750 MHz, 15.1cm depth)



Picture 5: Liquid depth in the Flat Phantom (1750 MHz, 15.2cm depth)



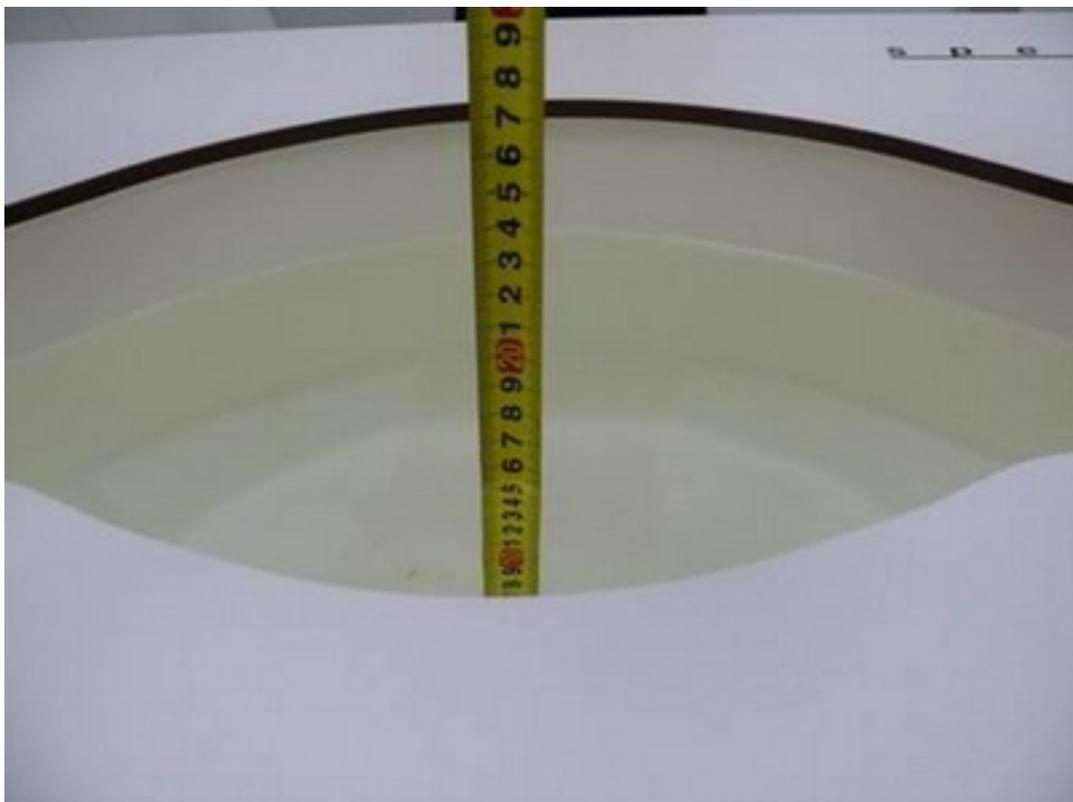
Picture 6: liquid depth in the head Phantom (1900 MHz, 15.2cm depth)



Picture 7: Liquid depth in the Flat Phantom (1900 MHz, 15.3cm depth)



Picture 8: Liquid depth in the head Phantom (2450 MHz, 15.4cm depth)



Picture 9: Liquid depth in the flat Phantom (2450 MHz, 15.3cm depth)

## ANNEX B: System Check Results

### System Performance Check at 835 MHz Head TSL

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN: 4d092

Date/Time: 4/28/2011 11:25 PM

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.90$  mho/m;  $\epsilon_r = 41.76$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3°C

Liquid Temperature: 21.7°C

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(9.50, 9.50, 9.50); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**d=15mm, Pin=250mW/Area Scan (101x121x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 2.81 mW/g

**d=15mm, Pin=250mW/Zoom Scan (7x7x7) /Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 55.8 V/m; Power Drift = -0.060 dB

Peak SAR (extrapolated) = 3.50 W/kg

**SAR(1 g) = 2.32 mW/g; SAR(10 g) = 1.51 mW/g**

Maximum value of SAR (measured) = 2.83 mW/g

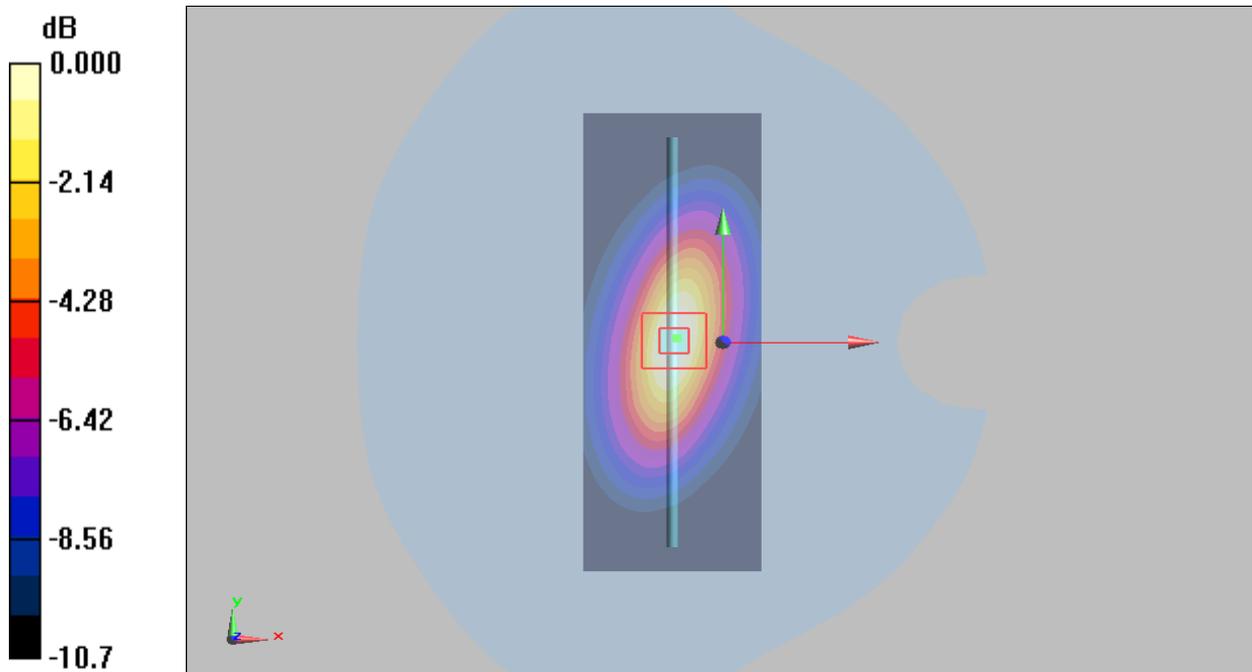


Figure 7 System Performance Check 835MHz 250mW

### System Performance Check at 835 MHz Body TSL

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN: 4d092

Date/Time: 4/28/2011 4:07:49 PM

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.99$  mho/m;  $\epsilon_r = 56.25$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3°C

Liquid Temperature: 21.9°C

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(10.33, 10.33, 10.33); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**d=15mm, Pin=250mW/Area Scan (101x121x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 2.93 mW/g

**d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm,

dz=5mm

Reference Value = 55.7 V/m; Power Drift = -0.017 dB

Peak SAR (extrapolated) = 3.59 W/kg

**SAR(1 g) = 2.41 mW/g; SAR(10 g) = 1.59 mW/g**

Maximum value of SAR (measured) = 2.92 mW/g

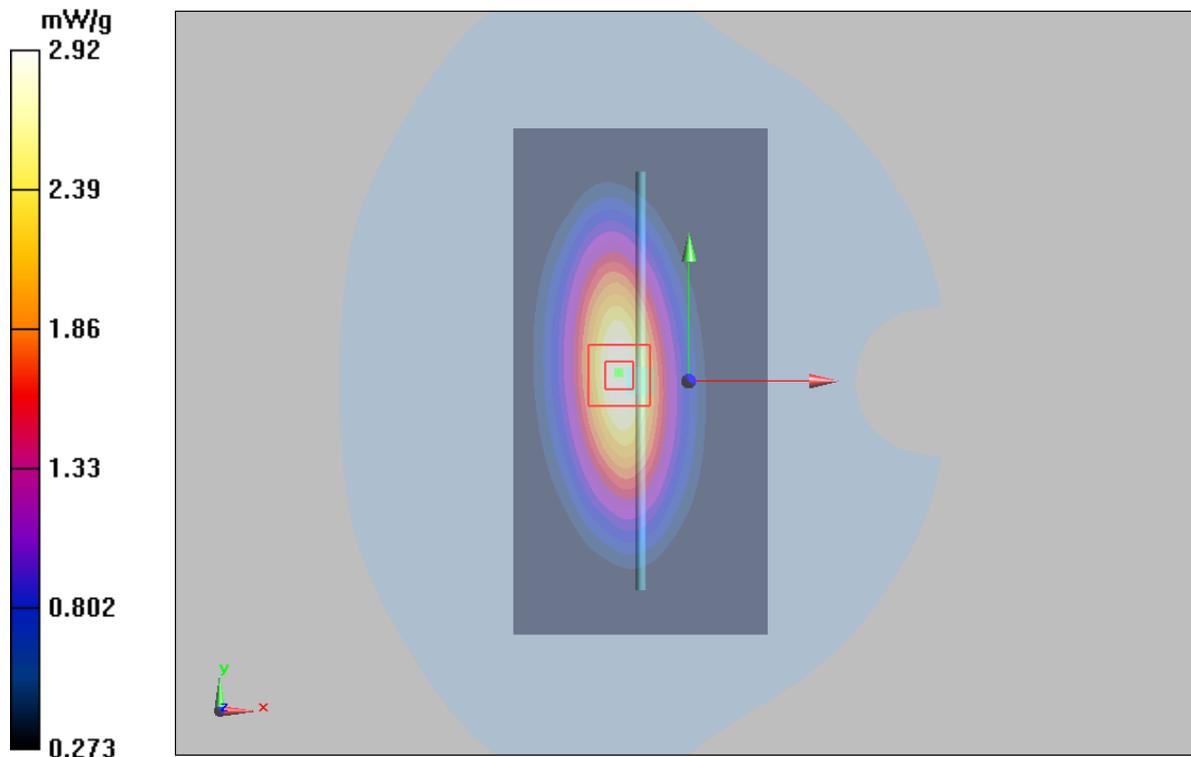


Figure 8 System Performance Check 835MHz 250mW

**System Performance Check at 1750 MHz Head TSL**

**DUT: Dipole 1750 MHz; Type: D1750V2; Serial: D1750V2 - SN: 1033**

Date/Time: 4/28/2011 3:00:30 PM

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.37$  mho/m;  $\epsilon_r = 39.32$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.9 °C

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(8.22, 8.22, 8.22); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**d=10mm, Pin=250mW/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 9.96 mW/g

**d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 78.7 V/m; Power Drift = 0.084 dB

Peak SAR (extrapolated) = 16.6 W/kg

**SAR(1 g) = 8.79 mW/g; SAR(10 g) = 4.59 mW/g**

Maximum value of SAR (measured) = 9.83 mW/g

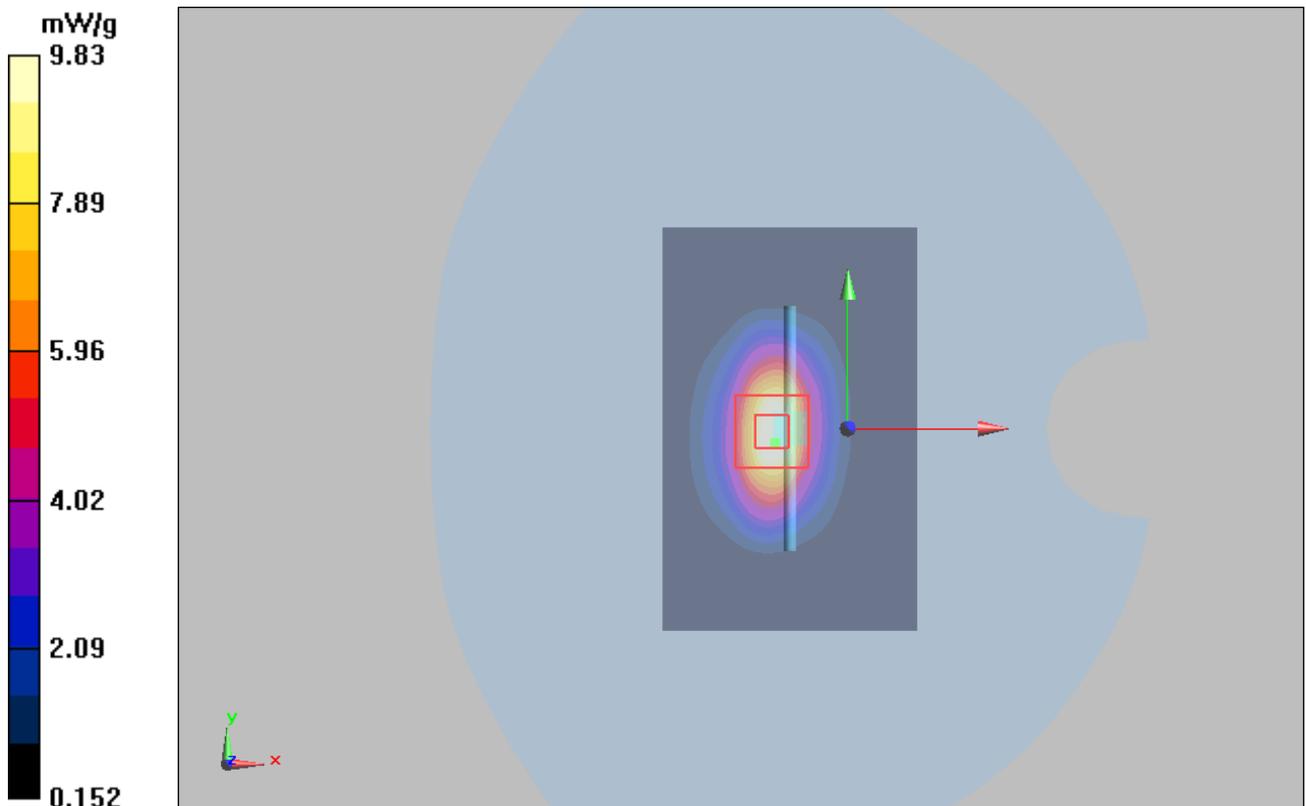


Figure 9 System Performance Check 1800MHz 250mW

**System Performance Check at 1750 MHz Body TSL**

**DUT: Dipole 1750 MHz; Type: D1750V2; Serial: D1750V2 - SN: 1033**

Date/Time: 4/29/2011 8:50:46 PM

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.48$  mho/m;  $\epsilon_r = 52.35$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.8 °C

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(8.02, 8.02, 8.02); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**d=10mm, Pin=250mW/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 10.6 mW/g

**d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 77.7 V/m; Power Drift = 0.097 dB

Peak SAR (extrapolated) = 16.8 W/kg

**SAR(1 g) = 9.25 mW/g; SAR(10 g) = 4.92 mW/g**

Maximum value of SAR (measured) = 10.3 mW/g

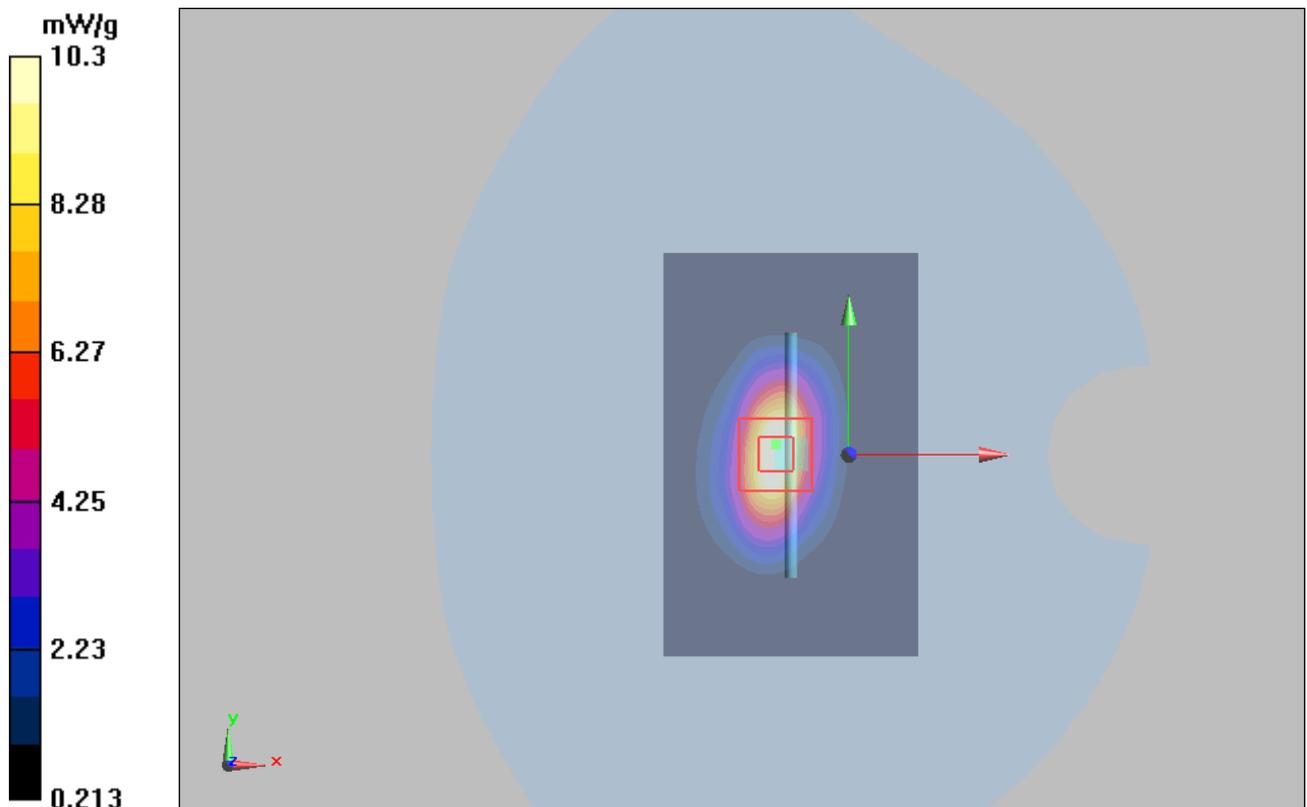


Figure 10 System Performance Check 1800MHz 250mW

**System Performance Check at 1900 MHz Head TSL**

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN: 5d018**

Date/Time: 4/29/2011 3:26:04 PM

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.41$  mho/m;  $\epsilon_r = 39.98$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.8 °C

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(7.94, 7.94, 7.94); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**d=10mm, Pin=250mW/Area Scan (41x71x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 12.9 mW/g

**d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 87.8 V/m; Power Drift = 0.040 dB

Peak SAR (extrapolated) = 20.1 W/kg

**SAR(1 g) = 10.58 mW/g; SAR(10 g) = 5.45 mW/g**

Maximum value of SAR (measured) = 11.9 mW/g

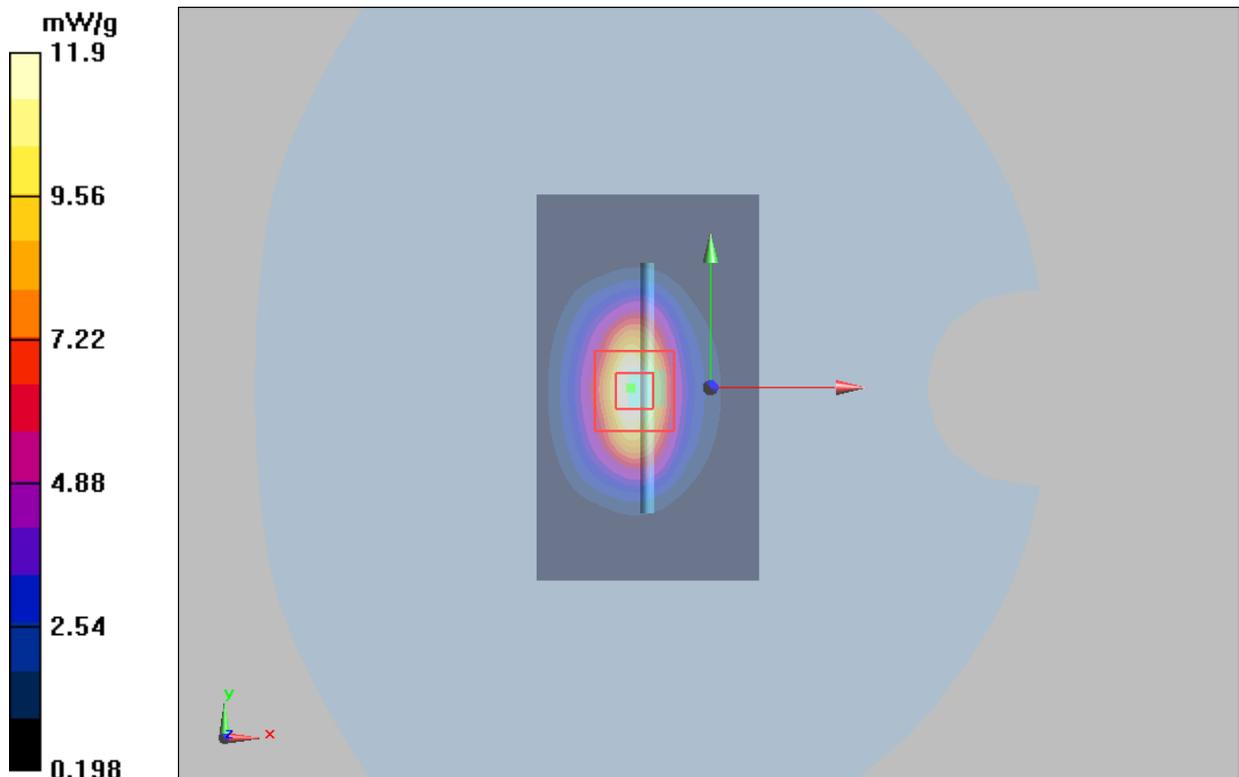


Figure 11 System Performance Check 1900MHz 250mW

### System Performance Check at 1900 MHz Body TSL

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN: 5d018

Date/Time: 5/2/2011 4:42:19 AM

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.53$  mho/m;  $\epsilon_r = 53.18$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.8 °C

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(7.77, 7.77, 7.77); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**d=10mm, Pin=250mW/Area Scan (41x71x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 12.5 mW/g

**d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 75.9 V/m; Power Drift = 0.051 dB

Peak SAR (extrapolated) = 16.8 W/kg

**SAR(1 g) = 10.12 mW/g; SAR(10 g) = 5.35 mW/g**

Maximum value of SAR (measured) = 11 mW/g

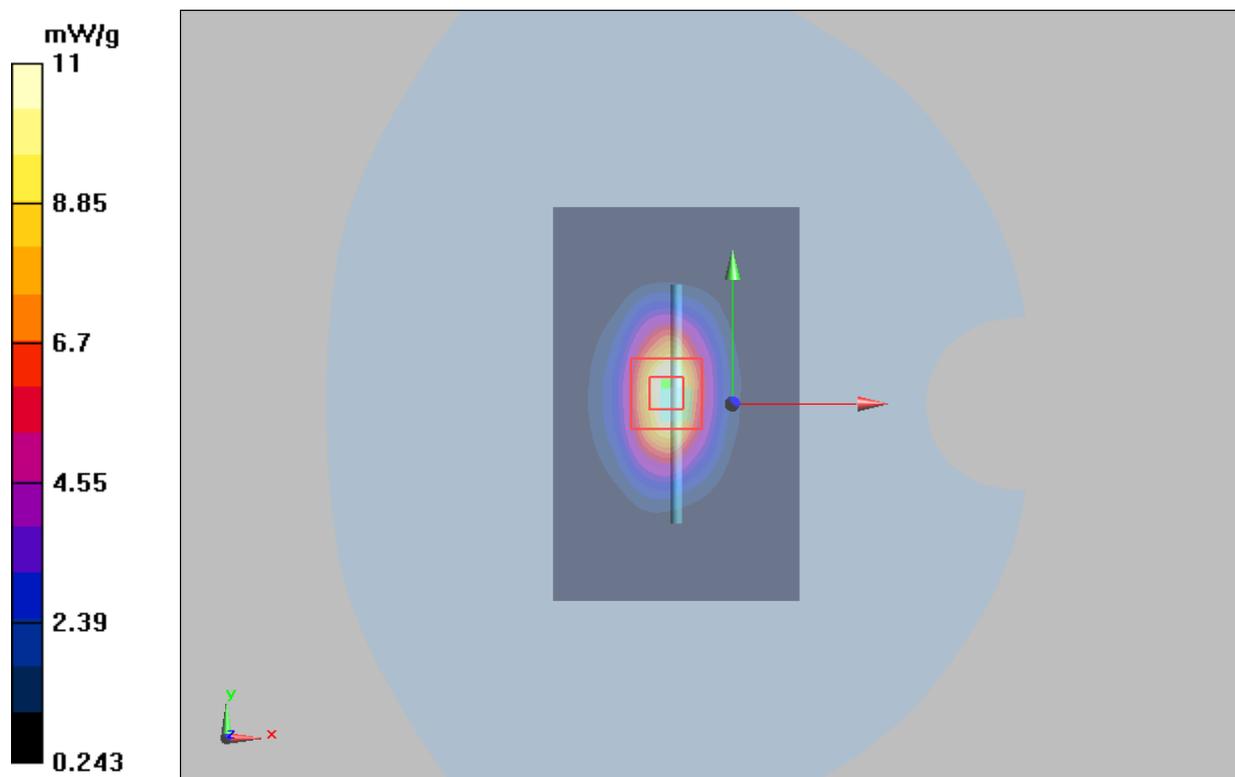


Figure 12 System Performance Check 1900MHz 250mW

### System Performance Check at 2450 MHz Head TSL

**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN: 712**

Date/Time: 5/3/2011 11:36:36 AM

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.81$  mho/m;  $\epsilon_r = 39.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.7 °C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(7.32, 7.32, 7.32); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**d=10mm, Pin=250mW/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 21.4 mW/g

**d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 67.0 V/m; Power Drift = 0.010 dB

Peak SAR (extrapolated) = 28.0 W/kg

**SAR(1 g) = 14.05 mW/g; SAR(10 g) = 6.5 mW/g**

Maximum value of SAR (measured) = 15.7 mW/g

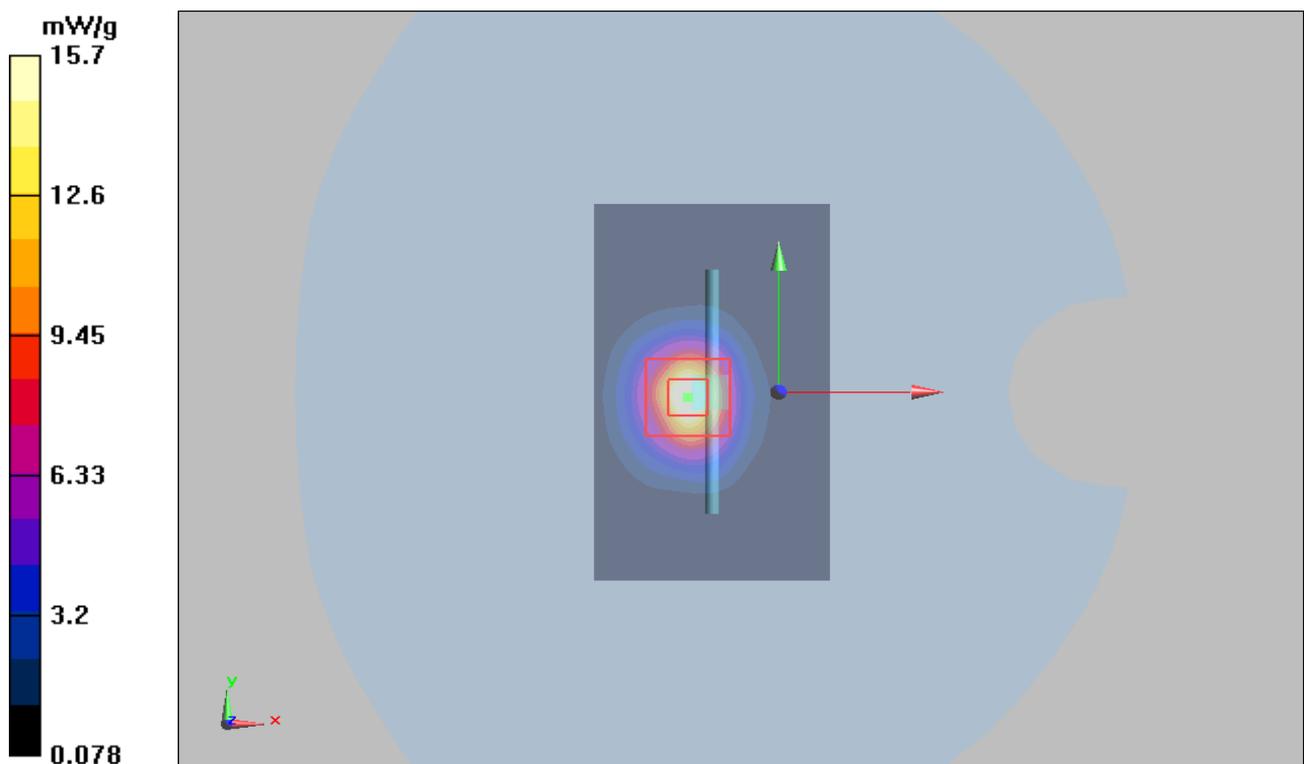


Figure 13 System Performance Check 2450MHz 250mW

**System Performance Check at 2450 MHz Body TSL**

**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN: 712**

Date/Time: 5/3/2011 10:08:36 AM

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.94$  mho/m;  $\epsilon_r = 51.19$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.8 °C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(7.46, 7.46, 7.46); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**d=10mm, Pin=250mW/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 21.5 mW/g

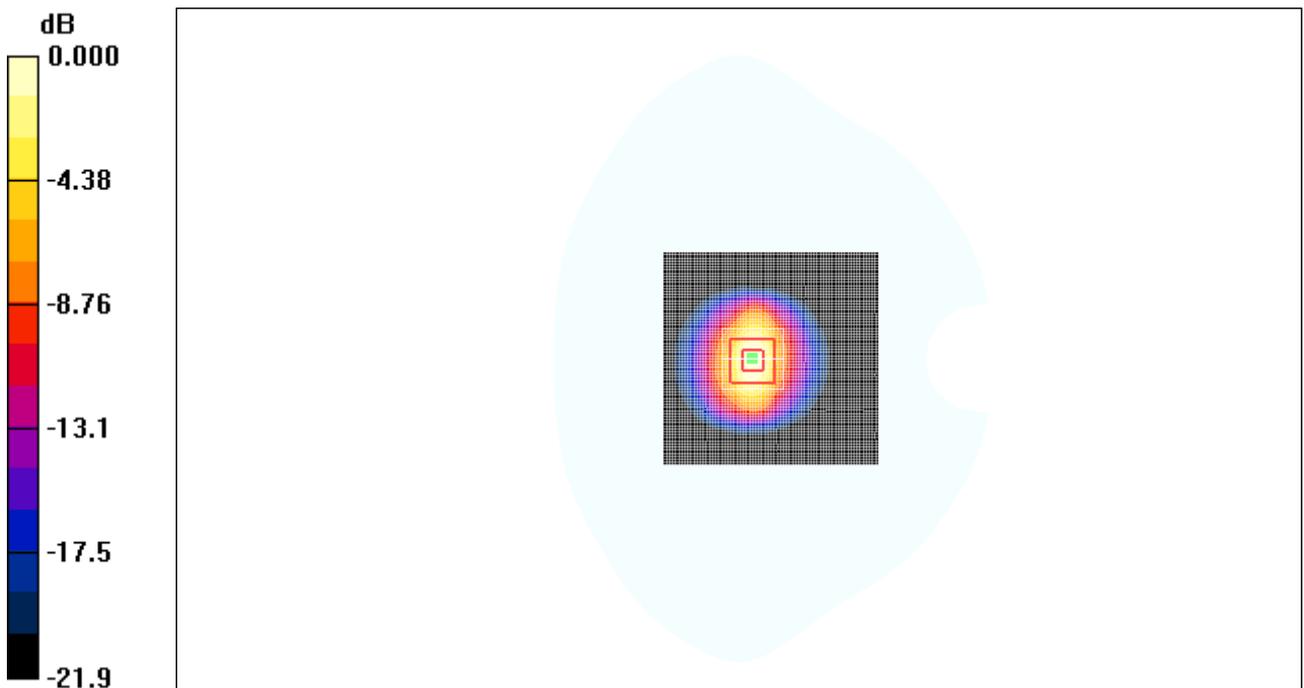
**d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 71.0 V/m; Power Drift = 0.011 dB

Peak SAR (extrapolated) = 28.2 W/kg

**SAR(1 g) = 14.0 mW/g; SAR(10 g) = 6.46 mW/g**

Maximum value of SAR (measured) = 19.8 mW/g



0 dB = 19.8mW/g

Figure 14 System Performance Check 2450MHz 250mW

## ANNEX C: Graph Results

### CDMA Cellular Left Cheek Middle

Date/Time: 4/29/2011 4:15:52 AM

Communication System: CDMA Cellular; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.905$  mho/m;  $\epsilon_r = 41.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Left Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(9.5, 9.5, 9.5); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Cheek Middle/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.559 mW/g

**Cheek Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.16 V/m; Power Drift = 0.096 dB

Peak SAR (extrapolated) = 0.644 W/kg

**SAR(1 g) = 0.535 mW/g; SAR(10 g) = 0.403 mW/g**

Maximum value of SAR (measured) = 0.561 mW/g

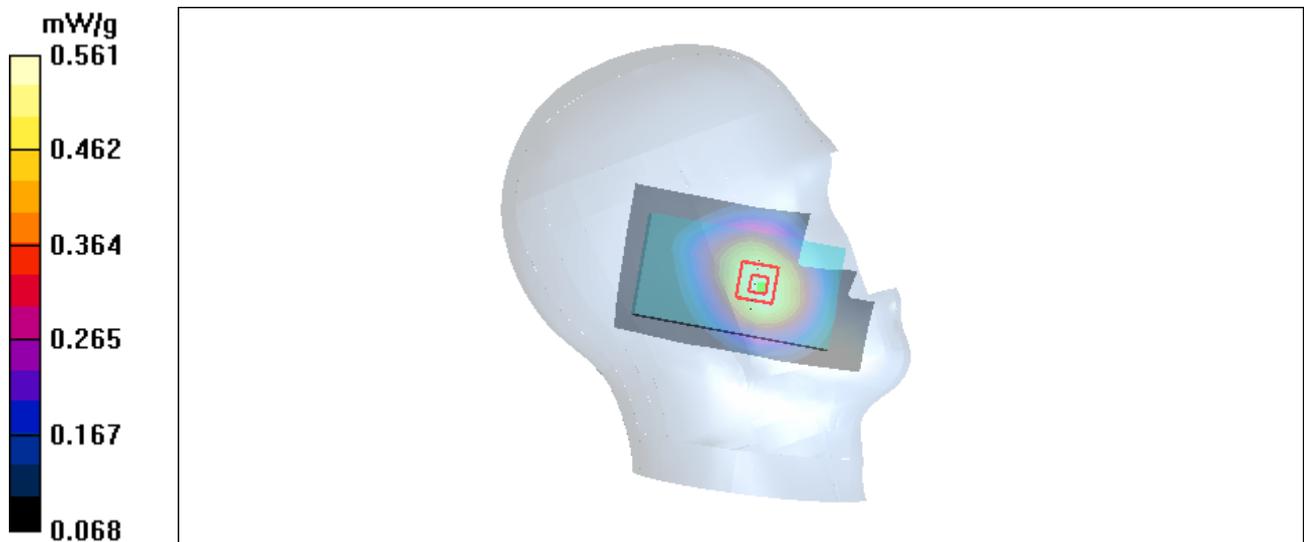


Figure 15 CDMA Cellular Left Hand Touch Cheek Channel 384

### CDMA Cellular Left Tilt Middle

Date/Time: 4/29/2011 4:28:27 AM

Communication System: CDMA Cellular; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.905$  mho/m;  $\epsilon_r = 41.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Left Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(9.5, 9.5, 9.5); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Tilt Middle/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.370 mW/g

**Tilt Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.3 V/m; Power Drift = 0.018 dB

Peak SAR (extrapolated) = 0.406 W/kg

**SAR(1 g) = 0.349 mW/g; SAR(10 g) = 0.271 mW/g**

Maximum value of SAR (measured) = 0.356 mW/g

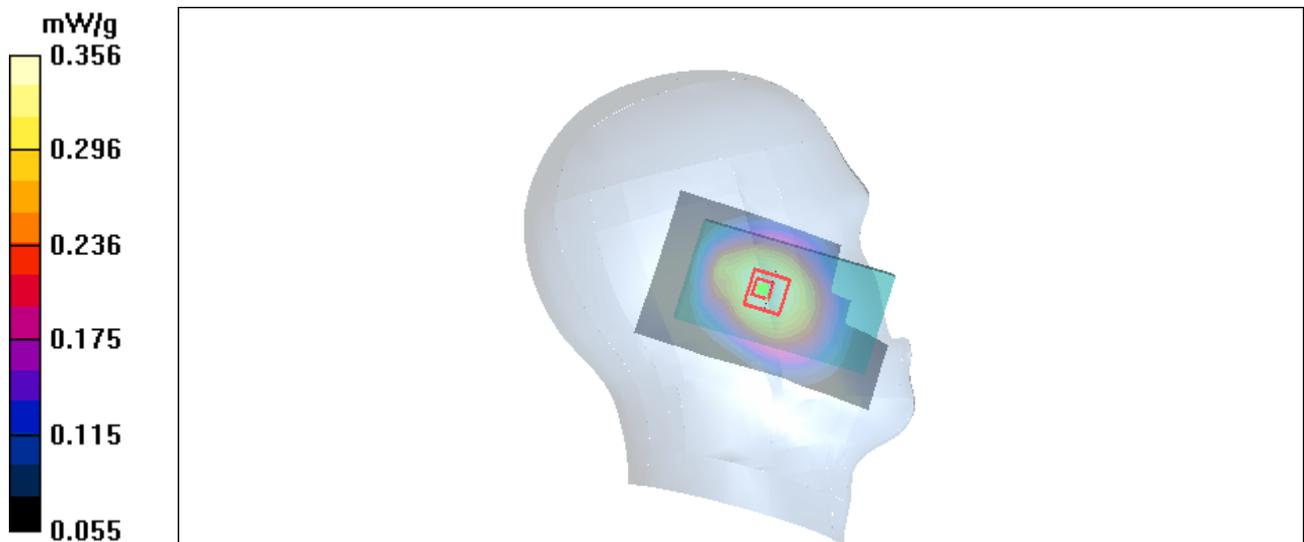


Figure 16 CDMA Cellular Left Hand Tilt 15° Channel 384

### CDMA Cellular Right Cheek High

Date/Time: 4/29/2011 4:59:50 AM

Communication System: CDMA Cellular; Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 848.31$  MHz;  $\sigma = 0.915$  mho/m;  $\epsilon_r = 41.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(9.5, 9.5, 9.5); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Cheek High/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.753 mW/g

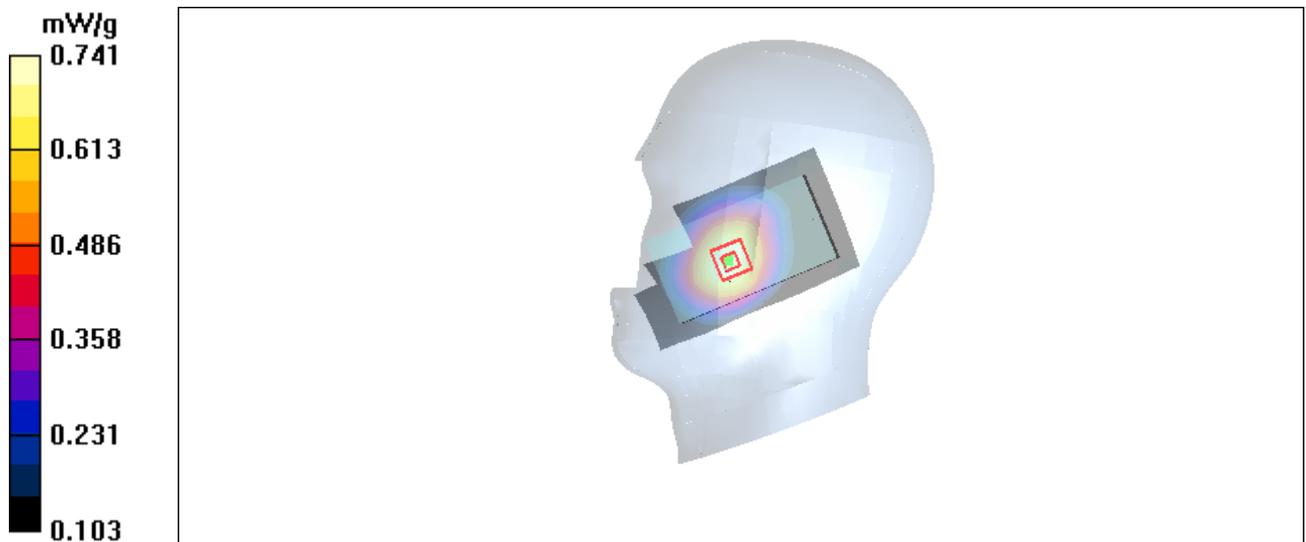
**Cheek High/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.92 V/m; Power Drift = -0.011 dB

Peak SAR (extrapolated) = 0.863 W/kg

**SAR(1 g) = 0.720 mW/g; SAR(10 g) = 0.548 mW/g**

Maximum value of SAR (measured) = 0.741 mW/g



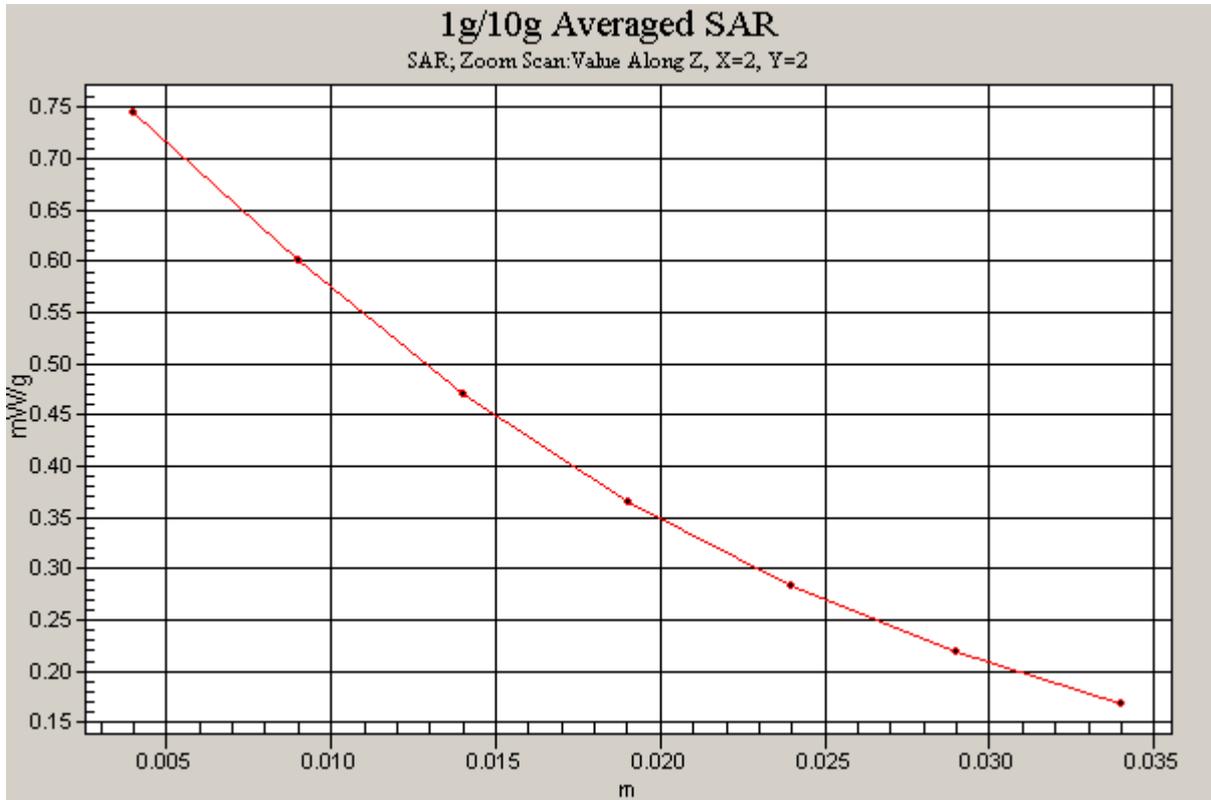


Figure 17 CDMA Cellular Right Hand Touch Cheek Channel 777

### CDMA Cellular Right Cheek Middle

Date/Time: 4/29/2011 4:47:23 AM

Communication System: CDMA Cellular; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.905$  mho/m;  $\epsilon_r = 41.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(9.5, 9.5, 9.5); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Cheek Middle/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.604 mW/g

**Cheek Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.95 V/m; Power Drift = -0.016 dB

Peak SAR (extrapolated) = 0.679 W/kg

**SAR(1 g) = 0.567 mW/g; SAR(10 g) = 0.430 mW/g**

Maximum value of SAR (measured) = 0.583 mW/g

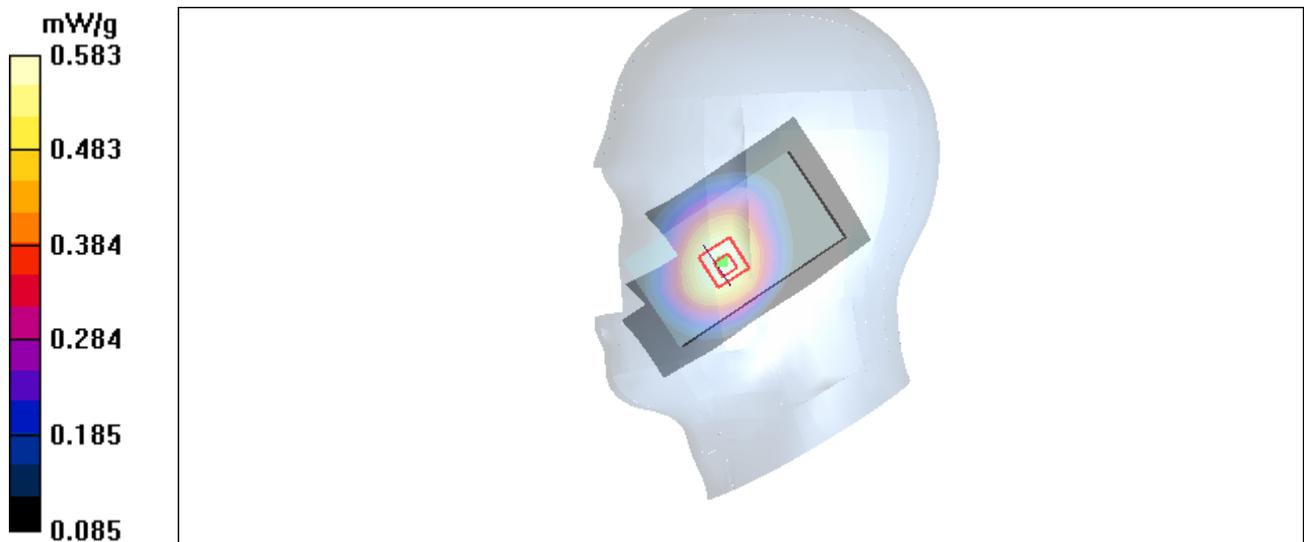


Figure 18 CDMA Cellular Right Hand Touch Cheek Channel 384

### CDMA Cellular Right Cheek Low

Date/Time: 4/29/2011 5:12:01 AM

Communication System: CDMA Cellular; Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 825$  MHz;  $\sigma = 0.894$  mho/m;  $\epsilon_r = 41.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(9.5, 9.5, 9.5); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Cheek Low/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.661 mW/g

**Cheek Low/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.55 V/m; Power Drift = -0.020 dB

Peak SAR (extrapolated) = 0.741 W/kg

**SAR(1 g) = 0.621 mW/g; SAR(10 g) = 0.476 mW/g**

Maximum value of SAR (measured) = 0.646 mW/g

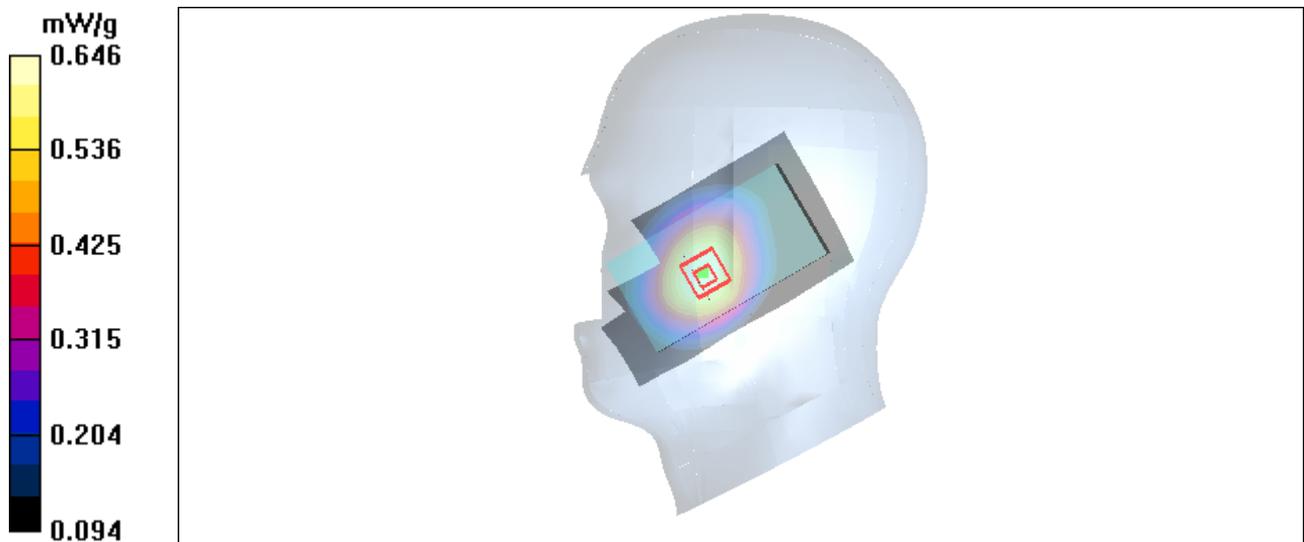


Figure 19 CDMA Cellular Right Hand Touch Cheek Channel 1013

### CDMA Cellular Right Tilt Middle

Date/Time: 4/29/2011 5:24:27 AM

Communication System: CDMA Cellular; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.905$  mho/m;  $\epsilon_r = 41.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(9.5, 9.5, 9.5); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Tilt Middle/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.400 mW/g

**Tilt Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.8 V/m; Power Drift = -0.001 dB

Peak SAR (extrapolated) = 0.456 W/kg

**SAR(1 g) = 0.385 mW/g; SAR(10 g) = 0.297 mW/g**

Maximum value of SAR (measured) = 0.403 mW/g

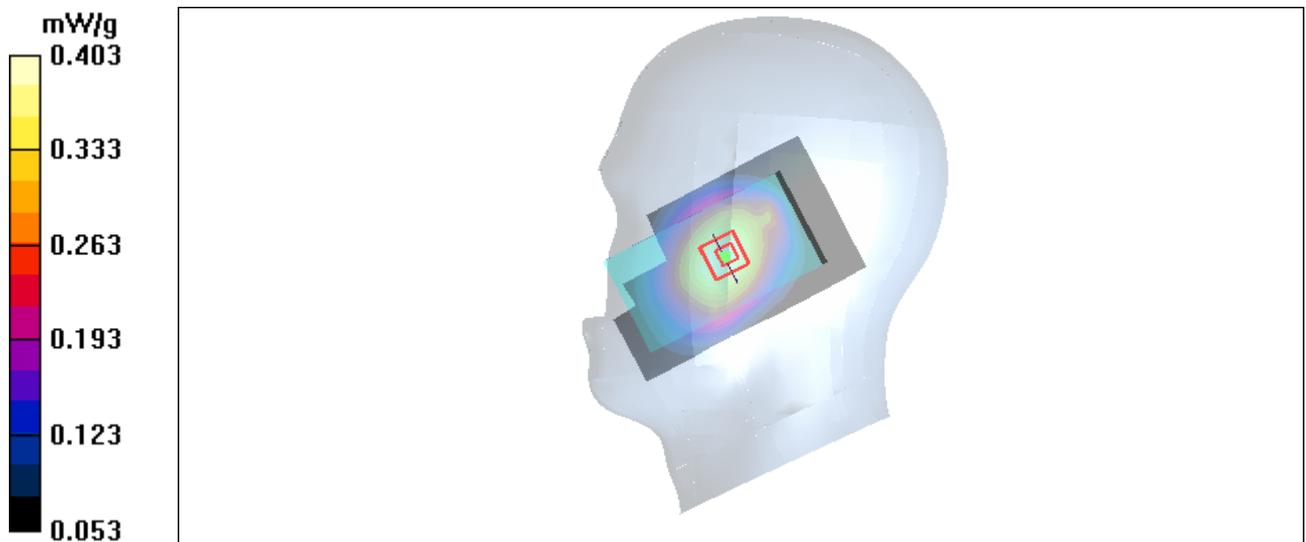


Figure 20 CDMA Cellular Right Hand Tilt 15° Channel 384

### CDMA Cellular Towards Ground High

Date/Time: 4/29/2011 1:16:00 AM

Communication System: CDMA Cellular; Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 848.31$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 56.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(10.33, 10.33, 10.33); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Ground High/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.941 mW/g

**Towards Ground High/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.5 V/m; Power Drift = -0.044 dB

Peak SAR (extrapolated) = 1.13 W/kg

**SAR(1 g) = 0.901 mW/g; SAR(10 g) = 0.660 mW/g**

Maximum value of SAR (measured) = 0.930 mW/g

**Towards Ground High/Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.5 V/m; Power Drift = -0.044 dB

Peak SAR (extrapolated) = 1.01 W/kg

**SAR(1 g) = 0.792 mW/g; SAR(10 g) = 0.560 mW/g**

Maximum value of SAR (measured) = 0.843 mW/g

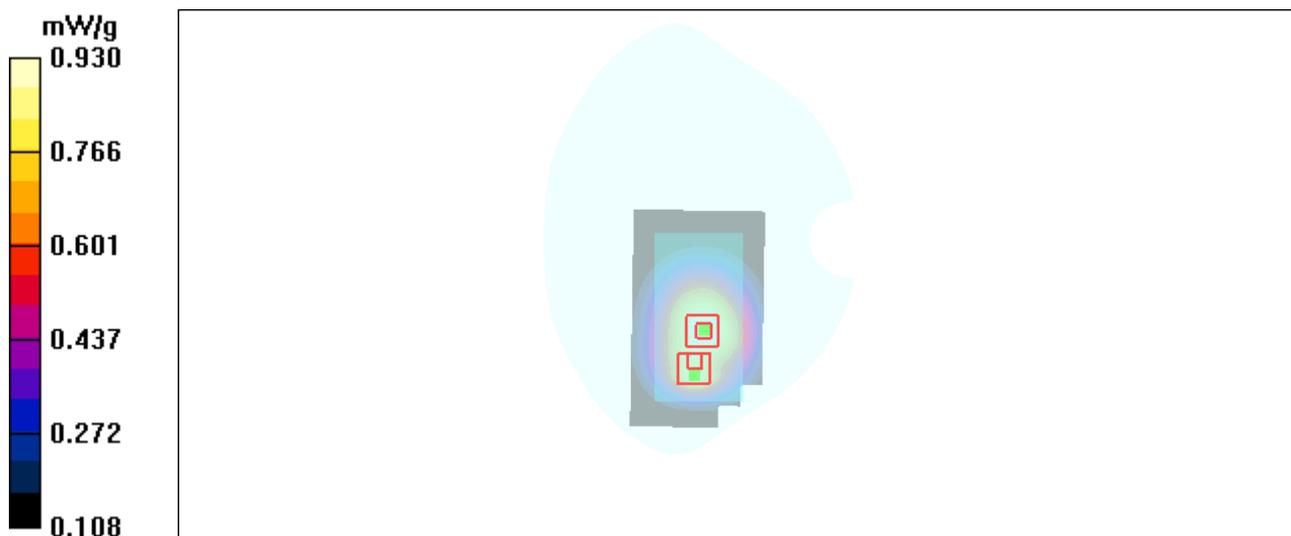


Figure 21 Body, CDMA Cellular Towards Ground Channel 777

### CDMA Cellular Towards Ground Middle

Date/Time: 4/29/2011 1:01:30 AM

Communication System: CDMA Cellular; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.996$  mho/m;  $\epsilon_r = 56.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(10.33, 10.33, 10.33); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Ground Middle/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.961 mW/g

**Towards Ground Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.4 V/m; Power Drift = 0.076 dB

Peak SAR (extrapolated) = 1.13 W/kg

**SAR(1 g) = 0.906 mW/g; SAR(10 g) = 0.667 mW/g**

Maximum value of SAR (measured) = 0.945 mW/g

**Towards Ground Middle/Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.4 V/m; Power Drift = 0.076 dB

Peak SAR (extrapolated) = 0.996 W/kg

**SAR(1 g) = 0.803 mW/g; SAR(10 g) = 0.570 mW/g**

Maximum value of SAR (measured) = 0.854 mW/g

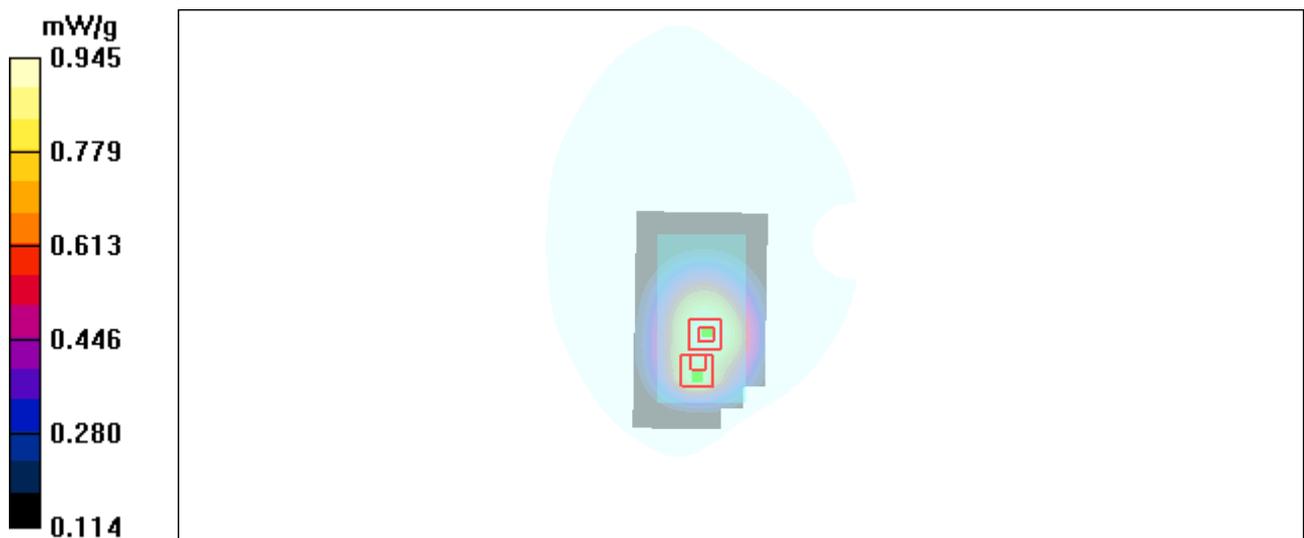


Figure 22 Body, CDMA Cellular Towards Ground Channel 384

### CDMA Cellular Towards Ground Low

Date/Time: 4/29/2011 1:31:54 AM

Communication System: CDMA Cellular; Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 825$  MHz;  $\sigma = 0.985$  mho/m;  $\epsilon_r = 56.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(10.33, 10.33, 10.33); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Ground Low/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.08 mW/g

**Towards Ground Low/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.1 V/m; Power Drift = 0.000 dB

Peak SAR (extrapolated) = 1.26 W/kg

**SAR(1 g) = 1.02 mW/g; SAR(10 g) = 0.753 mW/g**

Maximum value of SAR (measured) = 1.06 mW/g

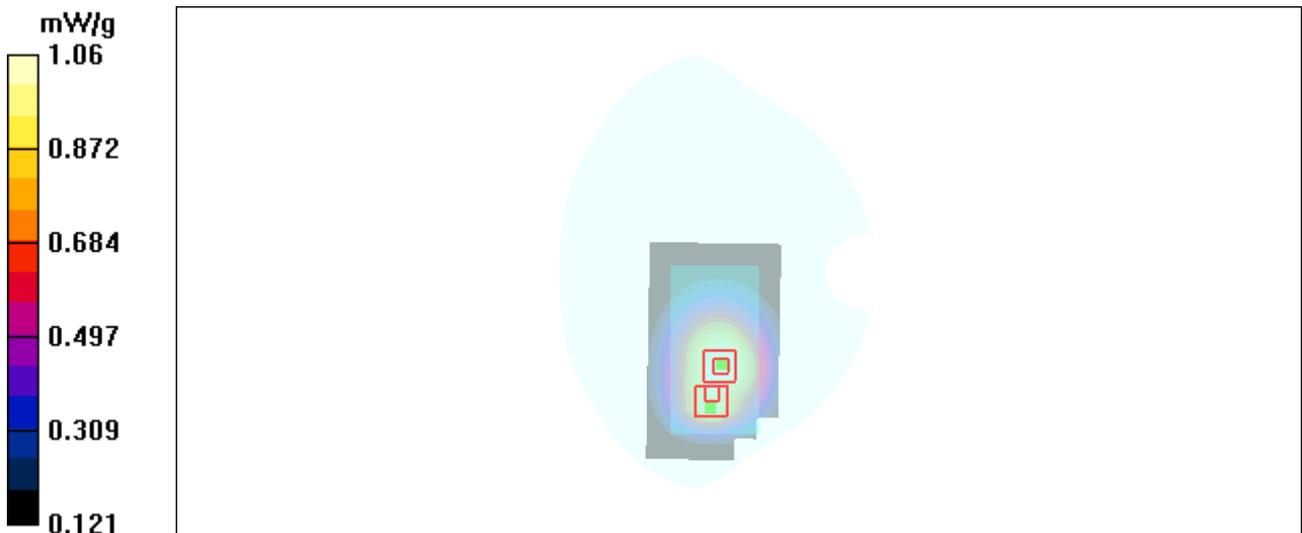
**Towards Ground Low/Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.1 V/m; Power Drift = 0.000 dB

Peak SAR (extrapolated) = 1.15 W/kg

**SAR(1 g) = 0.913 mW/g; SAR(10 g) = 0.648 mW/g**

Maximum value of SAR (measured) = 0.985 mW/g



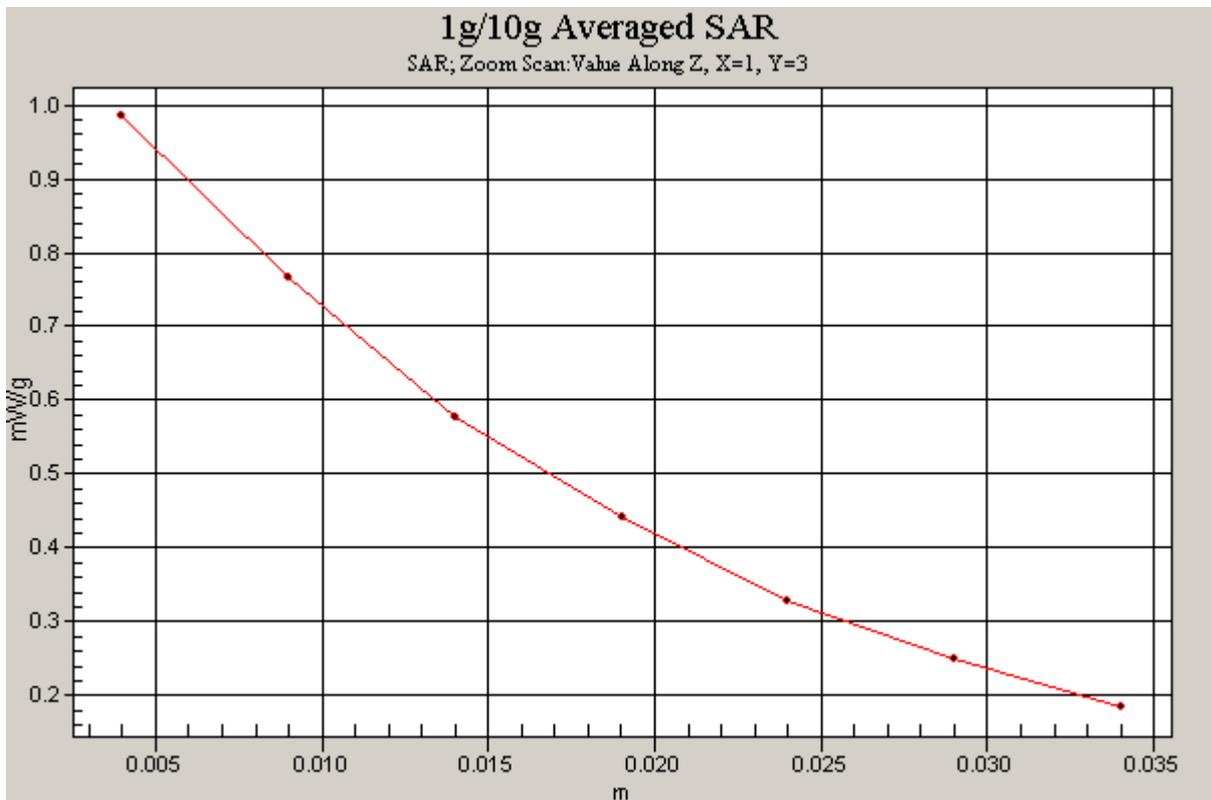
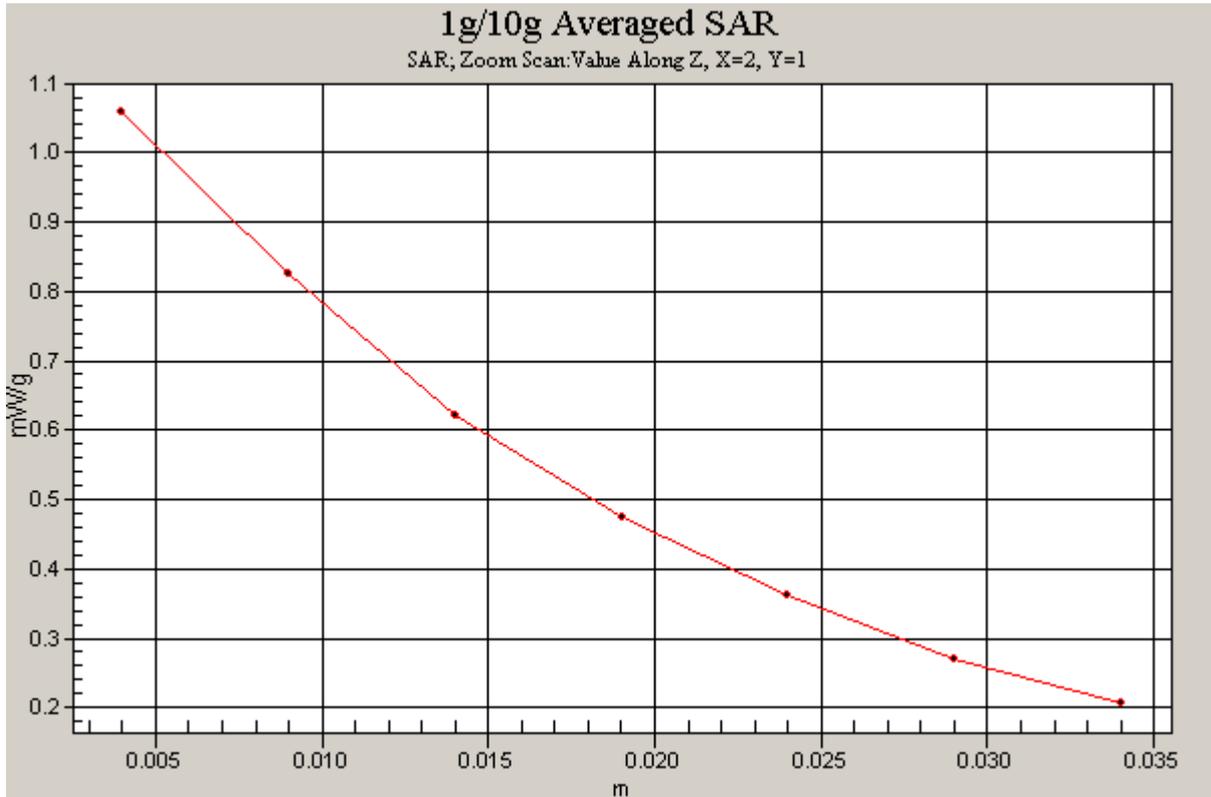


Figure 23 Body, CDMA Cellular Towards Ground Channel 1013

### CDMA Cellular Towards Phantom Middle

Date/Time: 4/29/2011 12:46:21 AM

Communication System: CDMA Cellular; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.996$  mho/m;  $\epsilon_r = 56.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(10.33, 10.33, 10.33); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Phantom Middle/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.603 mW/g

**Towards Phantom Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.1 V/m; Power Drift = -0.154 dB

Peak SAR (extrapolated) = 0.689 W/kg

**SAR(1 g) = 0.572 mW/g; SAR(10 g) = 0.432 mW/g**

Maximum value of SAR (measured) = 0.592 mW/g

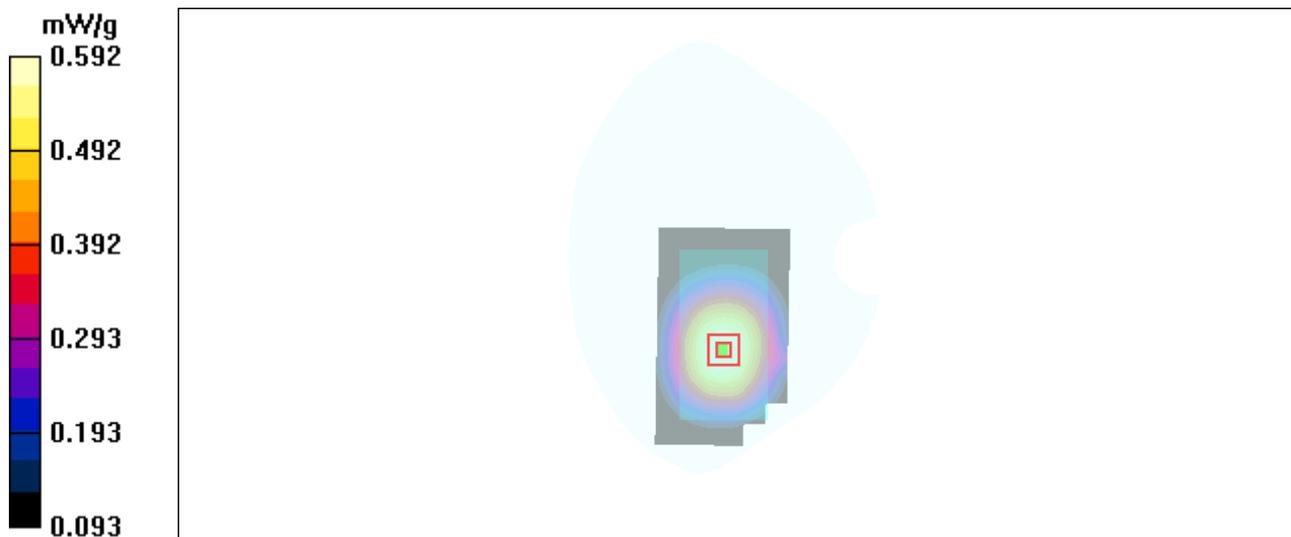


Figure 24 Body, CDMA Cellular Towards Phantom Channel 384

### CDMA Cellular with EVDO Rev.0 Ground Low

Date/Time: 4/29/2011 2:10:29 AM

Communication System: CDMA Cellular EVDO REV.0; Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 825$  MHz;  $\sigma = 0.985$  mho/m;  $\epsilon_r = 56.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(10.33, 10.33, 10.33); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Ground Low/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.05 mW/g

**Towards Ground Low/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.7 V/m; Power Drift = -0.070 dB

Peak SAR (extrapolated) = 1.69 W/kg

**SAR(1 g) = 1 mW/g; SAR(10 g) = 0.708 mW/g**

Maximum value of SAR (measured) = 1.05 mW/g

**Towards Ground Low/Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.7 V/m; Power Drift = -0.070 dB

Peak SAR (extrapolated) = 1.22 W/kg

**SAR(1 g) = 0.881 mW/g; SAR(10 g) = 0.623 mW/g**

Maximum value of SAR (measured) = 0.940 mW/g

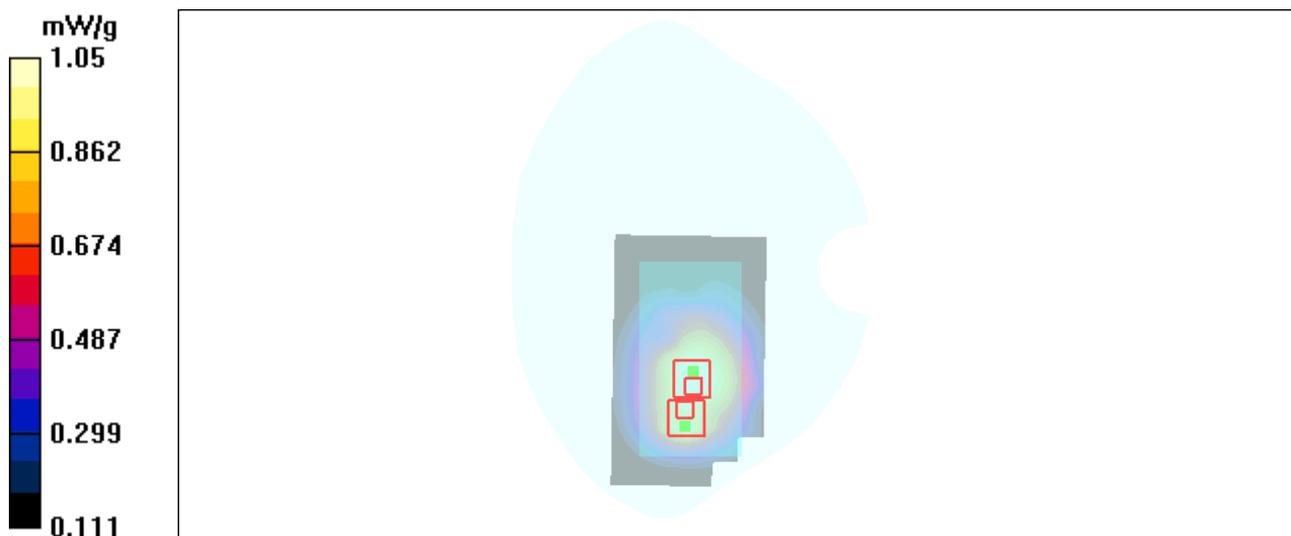


Figure 25 Body, CDMA Cellular with EVDO Rev.0 Towards Ground Channel 1013

**CDMA Cellular with EVDO Rev.A Towards Ground Low**

Date/Time: 4/29/2011 2:29:58 AM

Communication System: CDMA Cellular EVDO REV.A; Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 825 \text{ MHz}$ ;  $\sigma = 0.985 \text{ mho/m}$ ;  $\epsilon_r = 56.4$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature:  $22.3 \text{ }^\circ\text{C}$       Liquid Temperature:  $21.5 \text{ }^\circ\text{C}$

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(10.33, 10.33, 10.33); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Ground Low/Area Scan (61x101x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (interpolated) =  $1.09 \text{ mW/g}$

**Towards Ground Low/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $12.1 \text{ V/m}$ ; Power Drift =  $-0.063 \text{ dB}$

Peak SAR (extrapolated) =  $1.25 \text{ W/kg}$

**SAR(1 g) =  $1.01 \text{ mW/g}$ ; SAR(10 g) =  $0.739 \text{ mW/g}$**

Maximum value of SAR (measured) =  $1.04 \text{ mW/g}$

**Towards Ground Low/Zoom Scan (7x7x7)/Cube 1:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $12.1 \text{ V/m}$ ; Power Drift =  $-0.063 \text{ dB}$

Peak SAR (extrapolated) =  $1.14 \text{ W/kg}$

**SAR(1 g) =  $0.893 \text{ mW/g}$ ; SAR(10 g) =  $0.631 \text{ mW/g}$**

Maximum value of SAR (measured) =  $0.961 \text{ mW/g}$

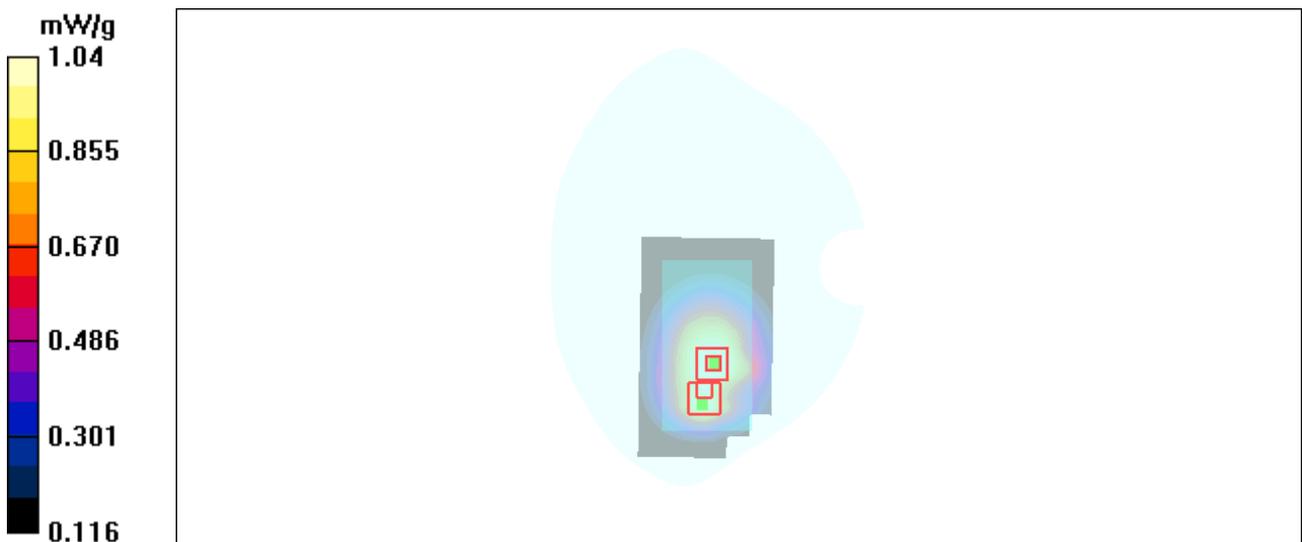


Figure 26 Body, CDMA Cellular with EVDO Rev.A Towards Ground Channel 1013

### CDMA Cellular with Earphone Towards Ground Low

Date/Time: 4/29/2011 1:49:54 AM

Communication System: CDMA Cellular; Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 825$  MHz;  $\sigma = 0.985$  mho/m;  $\epsilon_r = 56.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(10.33, 10.33, 10.33); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Ground Low/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.855 mW/g

**Towards Ground Low/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.88 V/m; Power Drift = 0.025 dB

Peak SAR (extrapolated) = 1.03 W/kg

**SAR(1 g) = 0.754 mW/g; SAR(10 g) = 0.534 mW/g**

Maximum value of SAR (measured) = 0.771 mW/g

**Towards Ground Low/Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.88 V/m; Power Drift = 0.025 dB

Peak SAR (extrapolated) = 0.950 W/kg

**SAR(1 g) = 0.762 mW/g; SAR(10 g) = 0.562 mW/g**

Maximum value of SAR (measured) = 0.788 mW/g

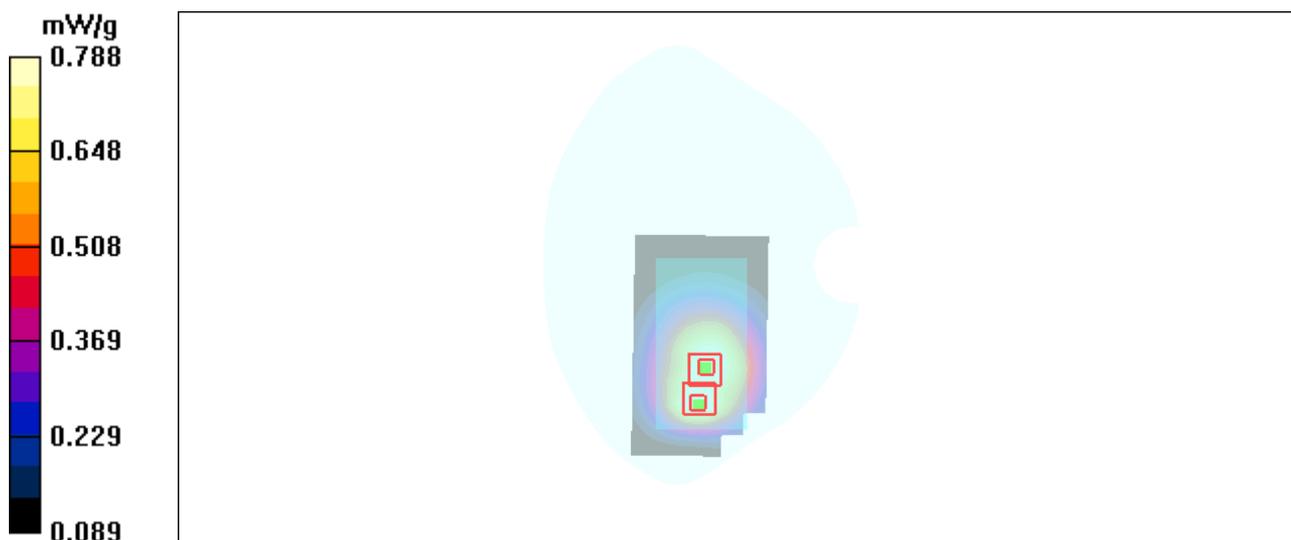


Figure 27 Body, CDMA Cellular with Earphone Towards Ground Channel 1013

### CDMA Cellular with EVDO Rev.0 (Hot spots) Towards Ground High

Date/Time: 4/28/2011 7:45:16 PM

Communication System: CDMA Cellular EVDO Rev.0; Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 848.31$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 56.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(10.33, 10.33, 10.33); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Ground High/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.30 mW/g

**Towards Ground High/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 35.9 V/m; Power Drift = -0.010 dB

Peak SAR (extrapolated) = 1.85 W/kg

**SAR(1 g) = 1.15 mW/g; SAR(10 g) = 0.782 mW/g**

Maximum value of SAR (measured) = 1.15 mW/g

**Towards Ground High/Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 35.9 V/m; Power Drift = -0.010 dB

Peak SAR (extrapolated) = 2.13 W/kg

**SAR(1 g) = 1.21 mW/g; SAR(10 g) = 0.867 mW/g**

Maximum value of SAR (measured) = 1.24 mW/g

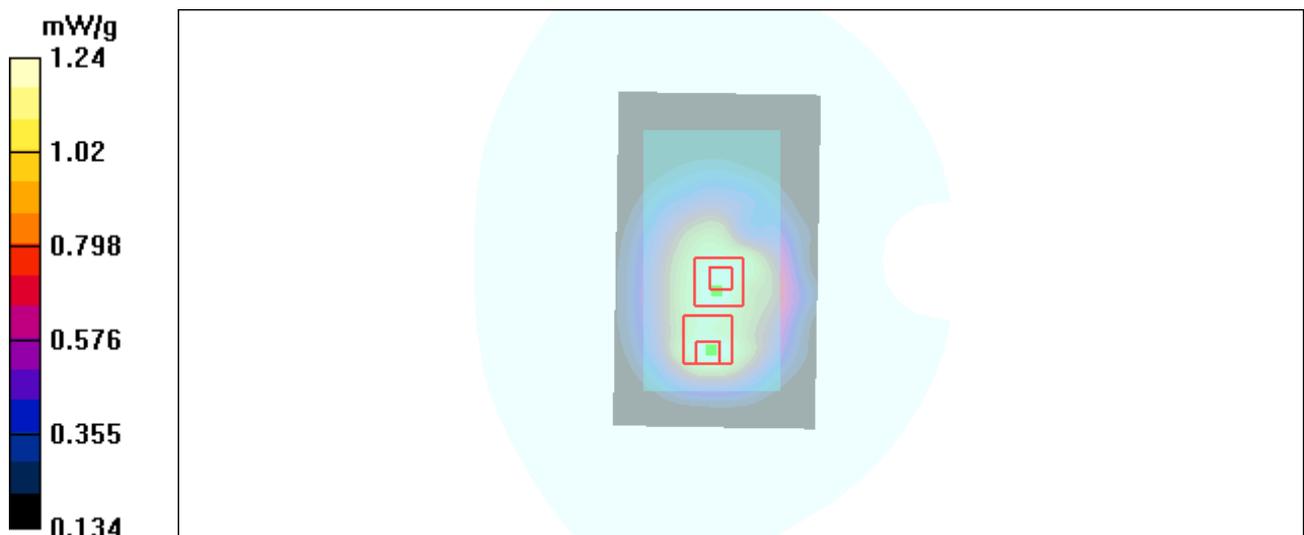


Figure 28 Body, Towards Ground, CDMA Cellular with EVDO Rev.0 Channel 777

### CDMA Cellular with EVDO Rev.0 (Hot spots) Towards Ground Middle

Date/Time: 4/28/2011 7:12:55 PM

Communication System: CDMA Cellular EVDO Rev.0; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.996$  mho/m;  $\epsilon_r = 56.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(10.33, 10.33, 10.33); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Ground Middle/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.29 mW/g

**Towards Ground Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 35.5 V/m; Power Drift = -0.015 dB

Peak SAR (extrapolated) = 1.59 W/kg

**SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.779 mW/g**

Maximum value of SAR (measured) = 1.20 mW/g

**Towards Ground Middle/Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 35.5 V/m; Power Drift = -0.015 dB

Peak SAR (extrapolated) = 1.68 W/kg

**SAR(1 g) = 1.19 mW/g; SAR(10 g) = 0.877 mW/g**

Maximum value of SAR (measured) = 1.25 mW/g

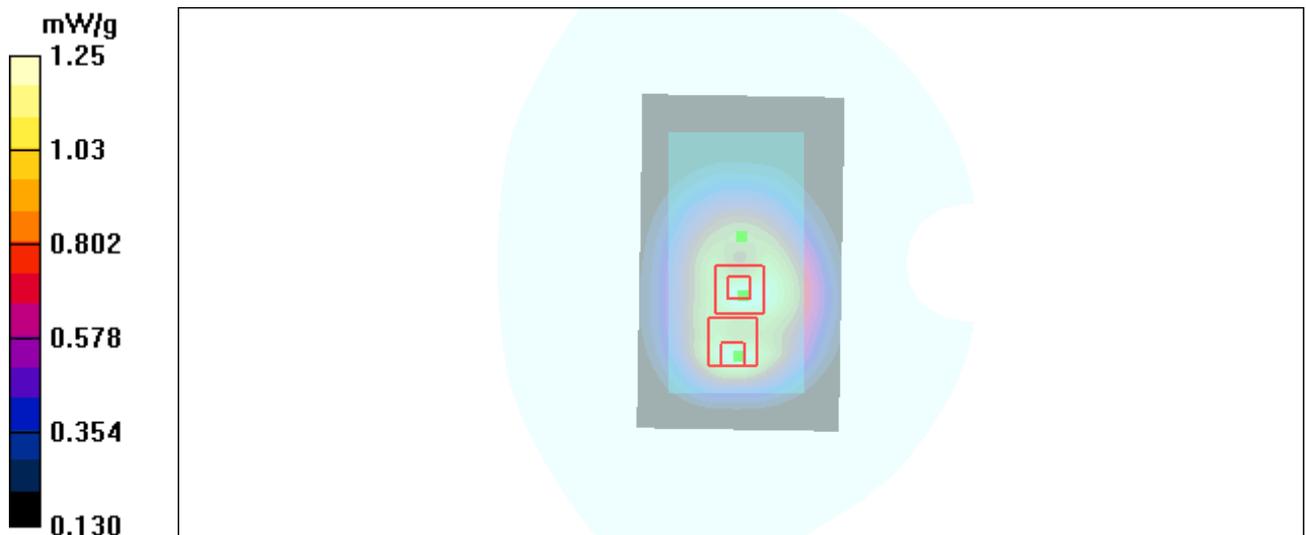


Figure 29 Body, Towards Ground, CDMA Cellular with EVDO Rev.0 Channel 384

### CDMA Cellular with EVDO Rev.0 (Hot spots) Towards Ground Low

Date/Time: 4/28/2011 8:00:47 PM

Communication System: CDMA Cellular EVDO Rev.0; Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 825$  MHz;  $\sigma = 0.985$  mho/m;  $\epsilon_r = 56.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(10.33, 10.33, 10.33); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Ground Low/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.47 mW/g

**Towards Ground Low/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 38.2 V/m; Power Drift = -0.166 dB

Peak SAR (extrapolated) = 1.77 W/kg

**SAR(1 g) = 1.24 mW/g; SAR(10 g) = 0.882 mW/g**

Maximum value of SAR (measured) = 1.27 mW/g

**Towards Ground Low/Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 38.2 V/m; Power Drift = -0.166 dB

Peak SAR (extrapolated) = 1.65 W/kg

**SAR(1 g) = 1.32 mW/g; SAR(10 g) = 0.965 mW/g**

Maximum value of SAR (measured) = 1.38 mW/g

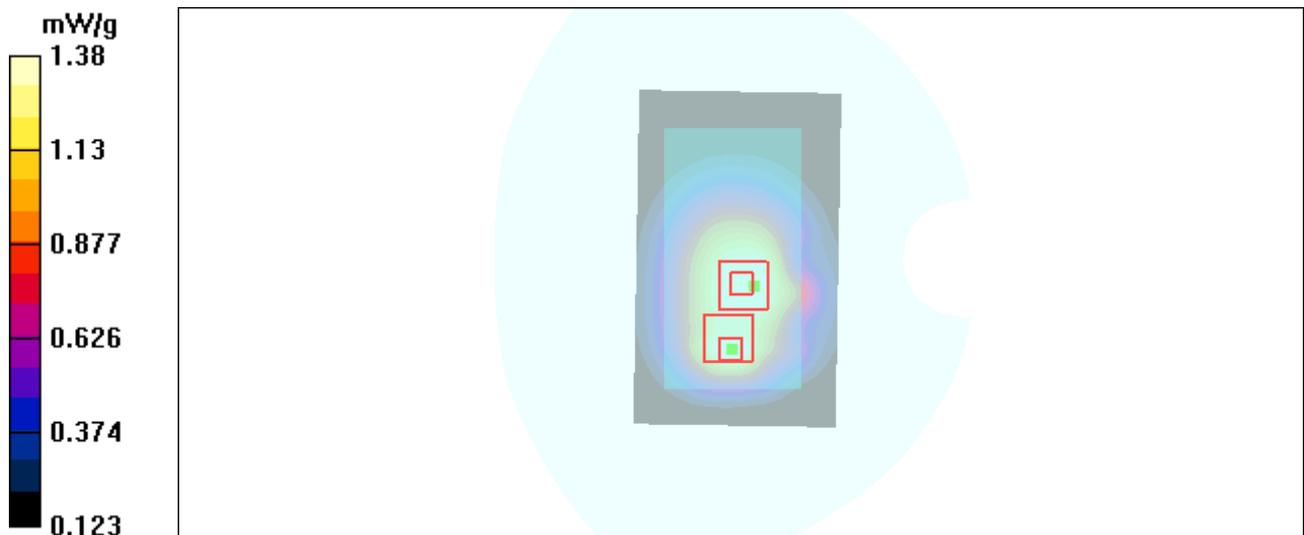


Figure 30 Body, Towards Ground, CDMA Cellular with EVDO Rev.0 Channel 1013

### CDMA Cellular with EVDO Rev.0 (Hot spots) Towards Phantom Middle

Date/Time: 4/28/2011 8:22:00 PM

Communication System: CDMA Cellular EVDO Rev.0; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.996$  mho/m;  $\epsilon_r = 56.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(10.33, 10.33, 10.33); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Phantom Middle/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.729 mW/g

**Towards Phantom Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 26.8 V/m; Power Drift = -0.037 dB

Peak SAR (extrapolated) = 0.779 W/kg

**SAR(1 g) = 0.673 mW/g; SAR(10 g) = 0.508 mW/g**

Maximum value of SAR (measured) = 0.726 mW/g

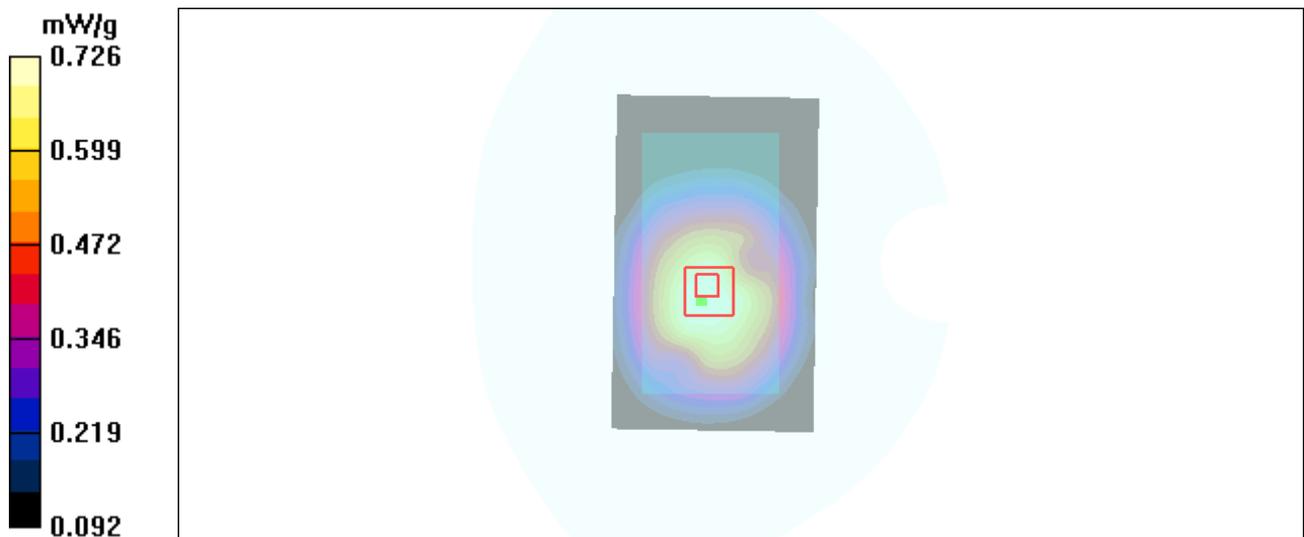


Figure 31 Body, Towards Phantom, CDMA Cellular with EVDO Rev.0 Channel 384

### CDMA Cellular with EVDO Rev.0 (Hot spots) Left Edge Middle

Date/Time: 4/28/2011 8:40:29 PM

Communication System: CDMA Cellular EVDO Rev.0; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.996$  mho/m;  $\epsilon_r = 56.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(10.33, 10.33, 10.33); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Left Edge Middle/Area Scan (41x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.580 mW/g

**Left Edge Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 24.6 V/m; Power Drift = 0.025 dB

Peak SAR (extrapolated) = 0.697 W/kg

**SAR(1 g) = 0.527 mW/g; SAR(10 g) = 0.363 mW/g**

Maximum value of SAR (measured) = 0.542 mW/g

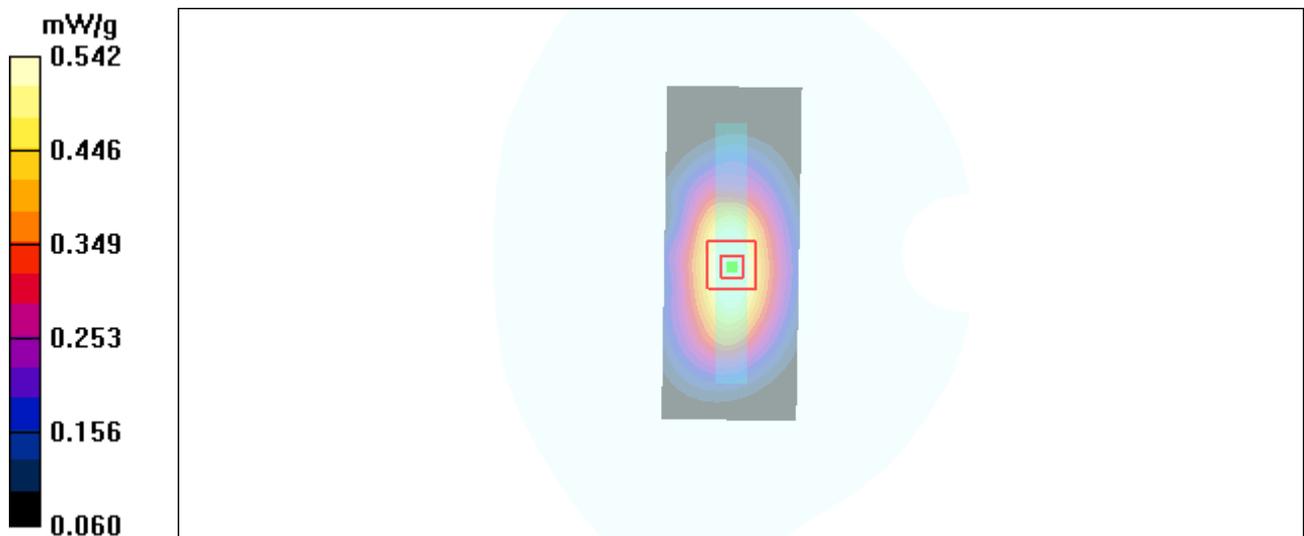


Figure 32 Body, Left Edge, CDMA Cellular with EVDO Rev.0 Channel 384

**CDMA Cellular with EVDO Rev.0 (Hot spots) Right Edge Middle**

Date/Time: 4/28/2011 9:12:04 PM

Communication System: CDMA Cellular EVDO Rev.0; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.996$  mho/m;  $\epsilon_r = 56.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(10.33, 10.33, 10.33); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Right Edge Middle/Area Scan (41x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.648 mW/g

**Right Edge Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 26.1 V/m; Power Drift = -0.034 dB

Peak SAR (extrapolated) = 0.770 W/kg

**SAR(1 g) = 0.600 mW/g; SAR(10 g) = 0.411 mW/g**

Maximum value of SAR (measured) = 0.612 mW/g

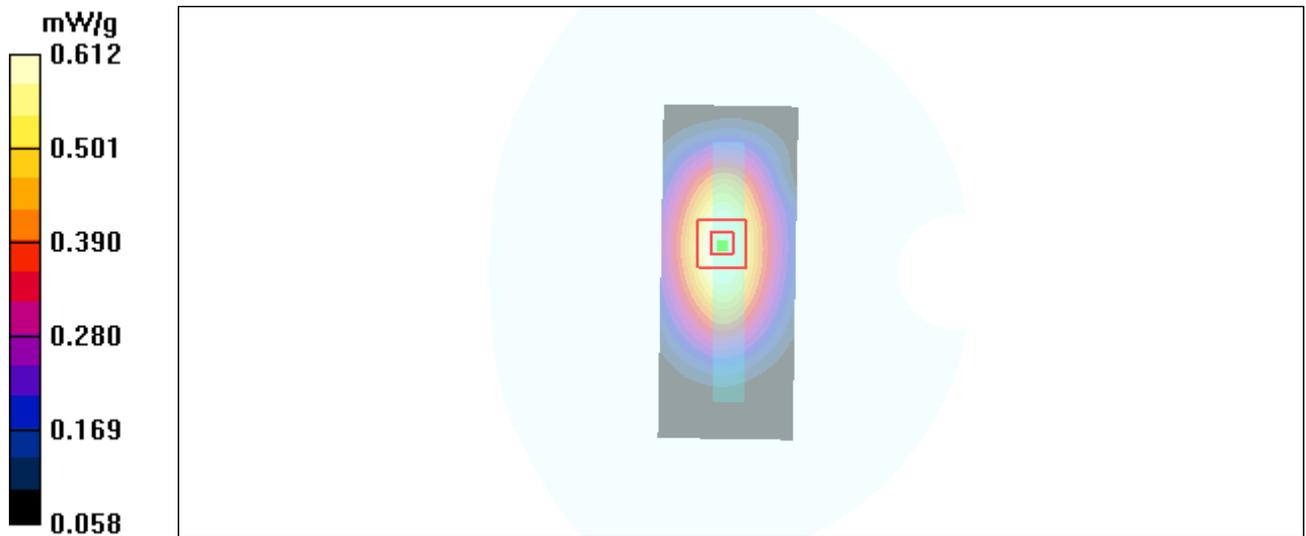


Figure 33 Body, Right Edge, CDMA Cellular with EVDO Rev.0 Channel 384

**CDMA Cellular with EVDO Rev.0 (Hot spots) Bottom Edge Middle**

Date/Time: 4/28/2011 9:47:11 PM

Communication System: CDMA Cellular EVDO Rev.0; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.996$  mho/m;  $\epsilon_r = 56.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(10.33, 10.33, 10.33); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Bottom Edge Middle/Area Scan (41x71x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.098 mW/g

**Bottom Edge Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.0 V/m; Power Drift = -0.020 dB

Peak SAR (extrapolated) = 0.151 W/kg

**SAR(1 g) = 0.090 mW/g; SAR(10 g) = 0.059 mW/g**

Maximum value of SAR (measured) = 0.095 mW/g

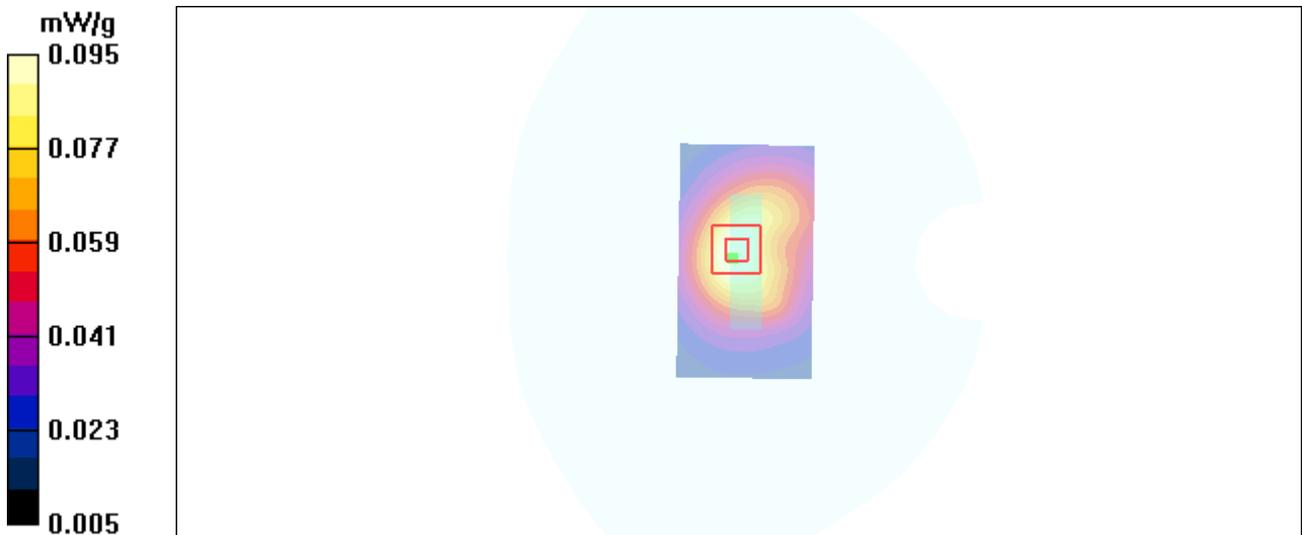


Figure 34 Body, Bottom Edge, CDMA Cellular with EVDO Rev.0 Channel 384

**CDMA Cellular with 1XRTT (hot spots) Towards Ground Low**

Date/Time: 4/28/2011 10:51:22 PM

Communication System: CDMA Cellular 1XRTT; Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 825$  MHz;  $\sigma = 0.985$  mho/m;  $\epsilon_r = 56.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(10.33, 10.33, 10.33); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Ground Low/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.35 mW/g

**Towards Ground Low/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 35.7 V/m; Power Drift = -0.096 dB

Peak SAR (extrapolated) = 1.64 W/kg

**SAR(1 g) = 1.29 mW/g; SAR(10 g) = 0.944 mW/g**

Maximum value of SAR (measured) = 1.35 mW/g

**Towards Ground Low/Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 35.7 V/m; Power Drift = -0.096 dB

Peak SAR (extrapolated) = 1.56 W/kg

**SAR(1 g) = 1.17 mW/g; SAR(10 g) = 0.858 mW/g**

Maximum value of SAR (measured) = 1.30 mW/g

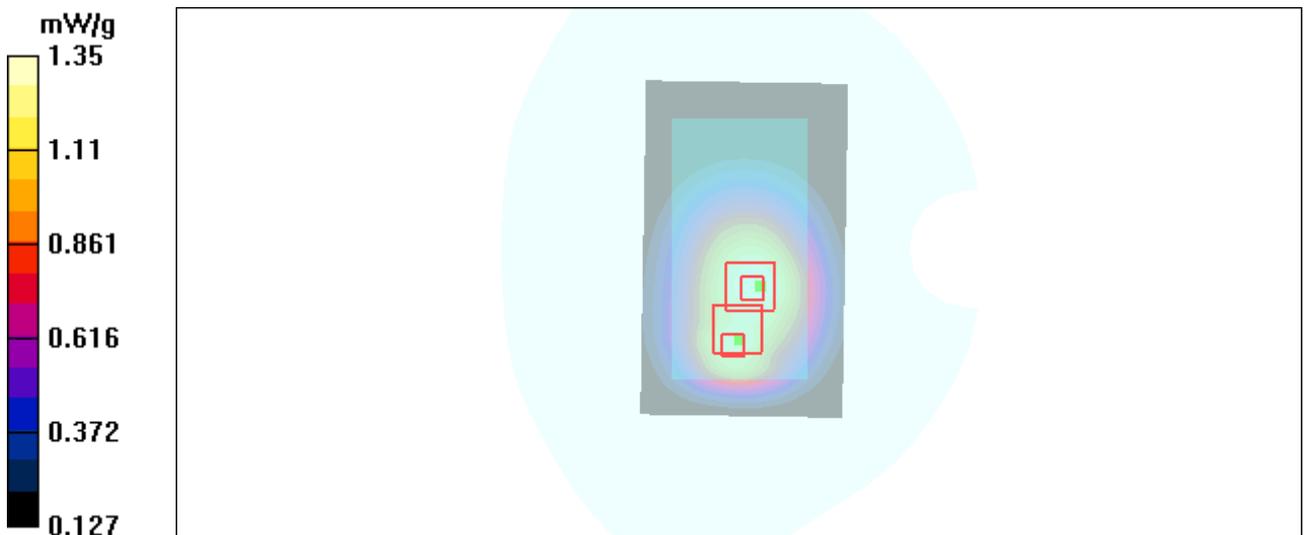


Figure 35 Body, Towards Ground, CDMA Cellular with 1XRTT Channel 1013

### CDMA Cellular with EVDO Rev.A (hot spots) Towards Ground Low

Date/Time: 4/28/2011 10:23:22 PM

Communication System: CDMA Cellular EVDO Rev.A; Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 825$  MHz;  $\sigma = 0.985$  mho/m;  $\epsilon_r = 56.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(10.33, 10.33, 10.33); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Ground Low/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.41 mW/g

**Towards Ground Low/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 36.7 V/m; Power Drift = 0.030 dB

Peak SAR (extrapolated) = 1.68 W/kg

**SAR(1 g) = 1.32 mW/g; SAR(10 g) = 0.957 mW/g**

Maximum value of SAR (measured) = 1.39 mW/g

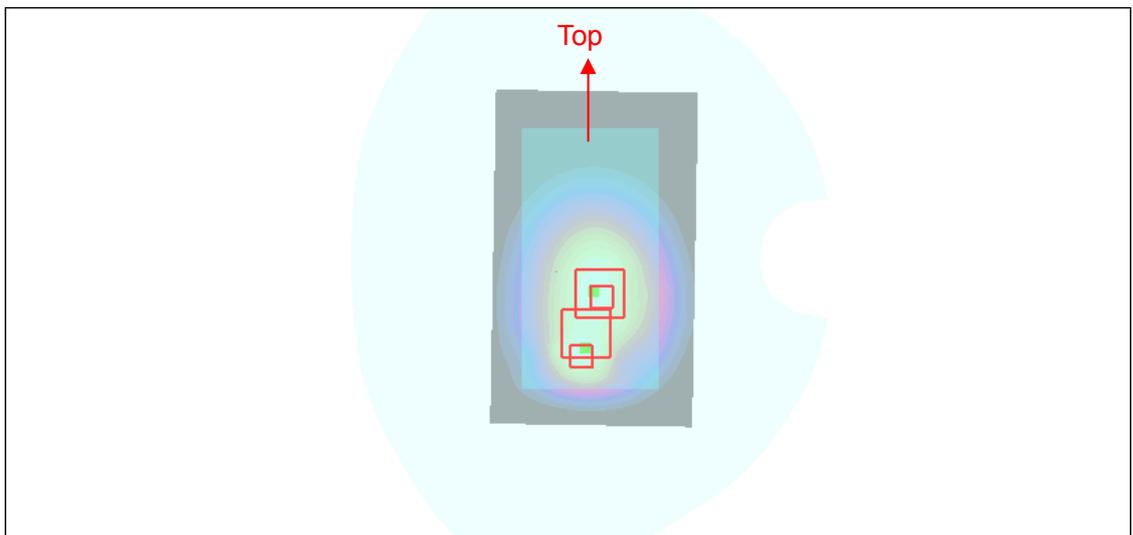
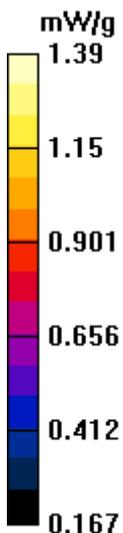
**Towards Ground Low/Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 36.7 V/m; Power Drift = 0.030 dB

Peak SAR (extrapolated) = 1.89 W/kg

**SAR(1 g) = 1.22 mW/g; SAR(10 g) = 0.866 mW/g**

Maximum value of SAR (measured) = 1.34 mW/g



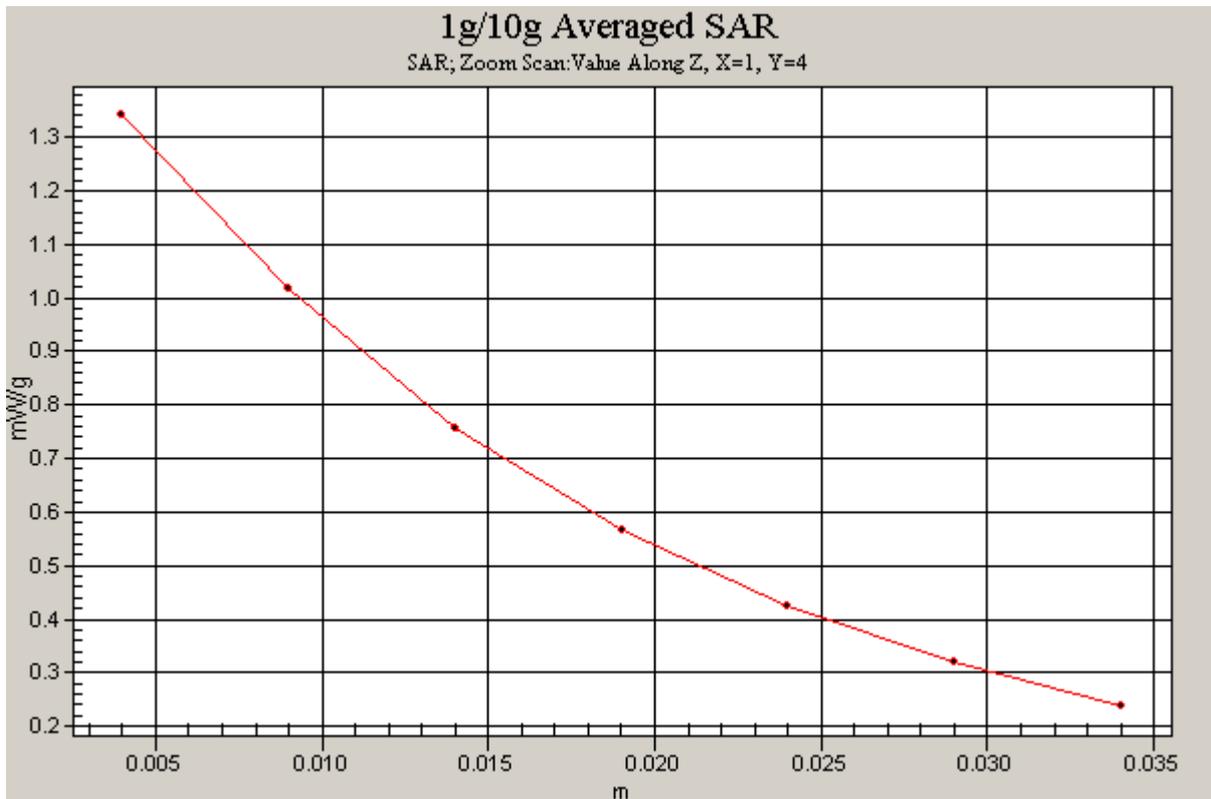
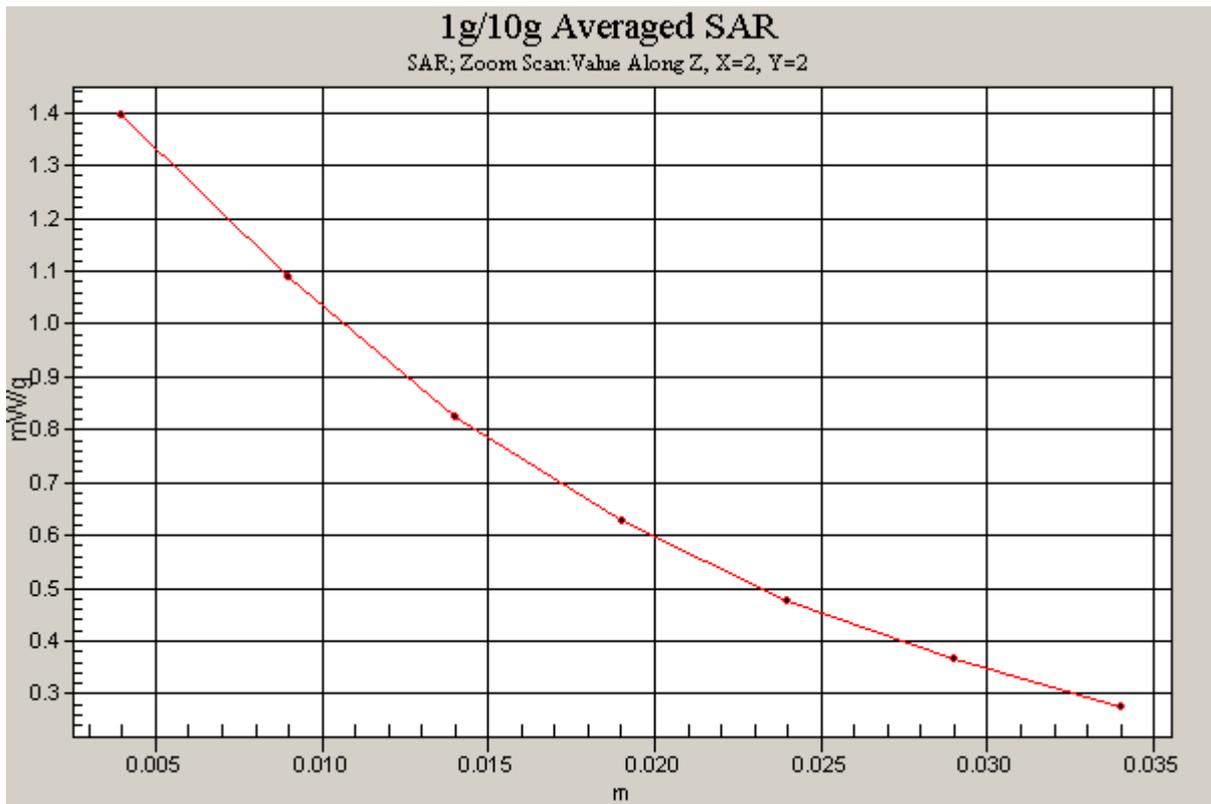


Figure 36 Body, Towards Ground, CDMA Cellular with EVDO Rev.A Channel 1013

### CDMA PCS Left Cheek High

Date/Time: 4/29/2011 5:21:57 PM

Communication System: CDMA PCS; Frequency: 1908.75 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1908.75$  MHz;  $\sigma = 1.43$  mho/m;  $\epsilon_r = 39.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Left Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(7.94, 7.94, 7.94); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Cheek High/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.16 mW/g

**Cheek High/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.58 V/m; Power Drift = -0.085 dB

Peak SAR (extrapolated) = 1.42 W/kg

**SAR(1 g) = 0.967 mW/g; SAR(10 g) = 0.582 mW/g**

Maximum value of SAR (measured) = 1.07 mW/g

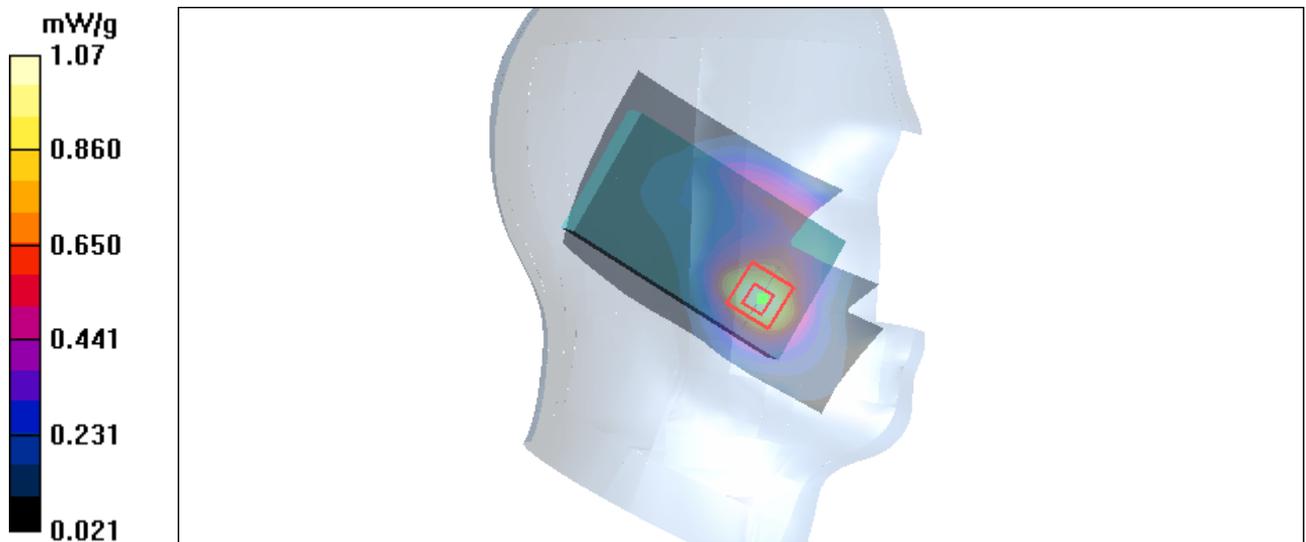


Figure 37 CDMA PCS Left Hand Touch Cheek Channel 1175

### CDMA PCS Left Cheek Middle

Date/Time: 4/29/2011 4:43:50 PM

Communication System: CDMA PCS; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.39$  mho/m;  $\epsilon_r = 40.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Left Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(7.94, 7.94, 7.94); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Cheek Middle/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.29 mW/g

**Cheek Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.04 V/m; Power Drift = 0.198 dB

Peak SAR (extrapolated) = 1.56 W/kg

**SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.663 mW/g**

Maximum value of SAR (measured) = 1.19 mW/g

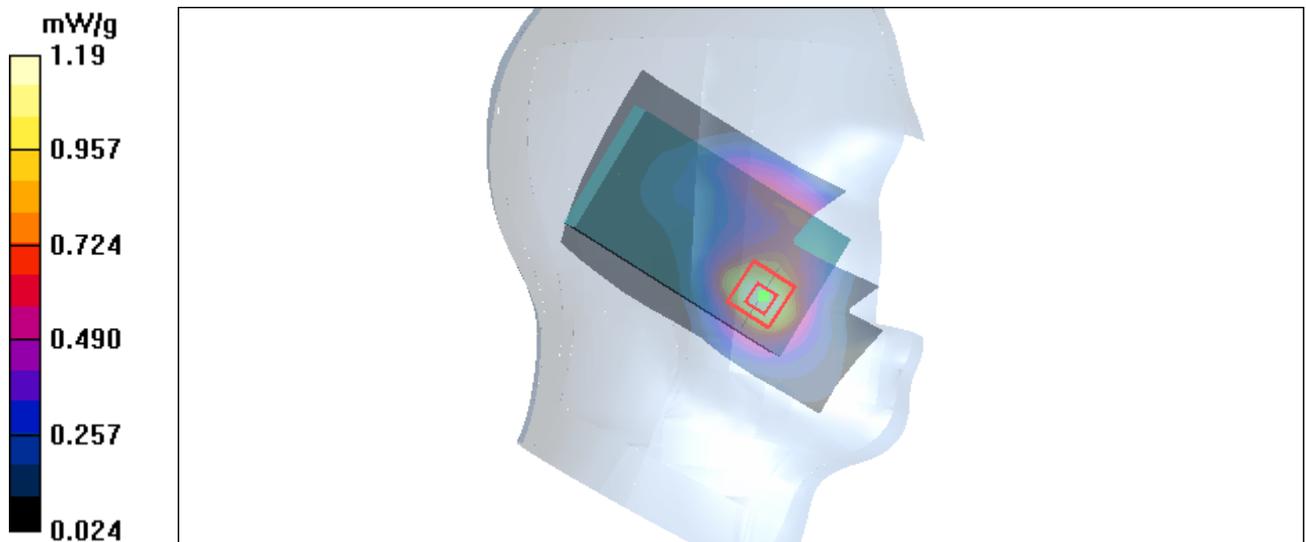


Figure 38 CDMA PCS Left Hand Touch Cheek Channel 600

### CDMA PCS Left Cheek Low

Date/Time: 4/29/2011 5:06:36 PM

Communication System: CDMA PCS; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1852$  MHz;  $\sigma = 1.38$  mho/m;  $\epsilon_r = 40.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Left Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(7.94, 7.94, 7.94); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Cheek Low/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.25 mW/g

**Cheek Low/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.19 V/m; Power Drift = -0.012 dB

Peak SAR (extrapolated) = 1.48 W/kg

**SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.649 mW/g**

Maximum value of SAR (measured) = 1.15 mW/g

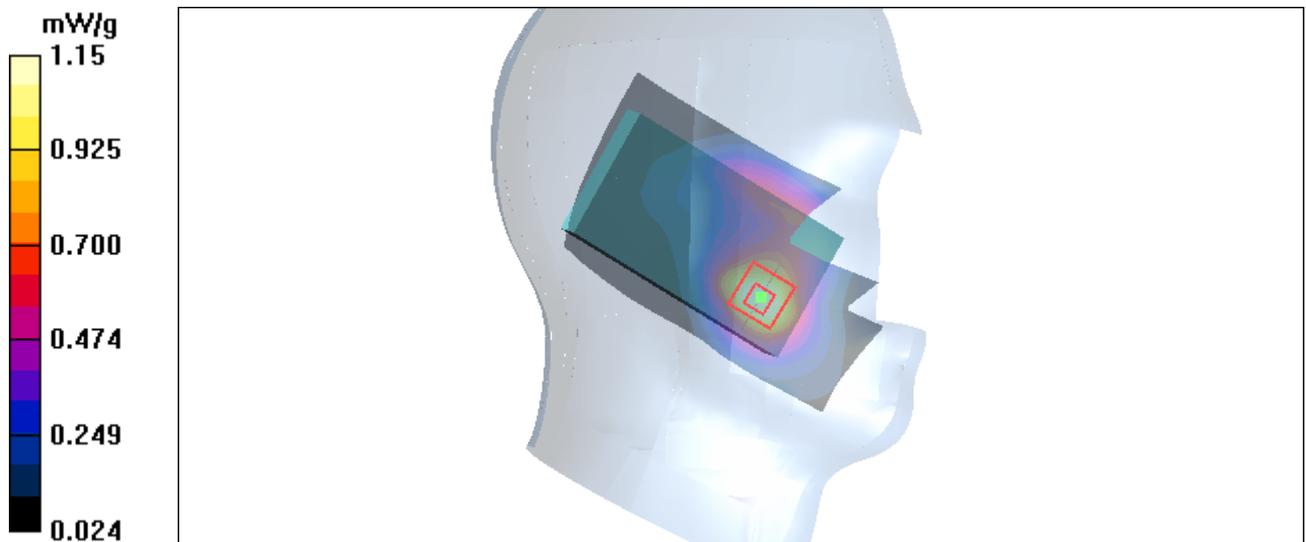


Figure 39 CDMA PCS Left Hand Touch Cheek Channel 25

### CDMA PCS Left Tilt Middle

Date/Time: 4/29/2011 9:37:23 PM

Communication System: CDMA PCS; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.39$  mho/m;  $\epsilon_r = 40.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Left Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(7.94, 7.94, 7.94); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Tilt Middle/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.612 mW/g

**Tilt Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.2 V/m; Power Drift = -0.050 dB

Peak SAR (extrapolated) = 0.684 W/kg

**SAR(1 g) = 0.493 mW/g; SAR(10 g) = 0.302 mW/g**

Maximum value of SAR (measured) = 0.501 mW/g

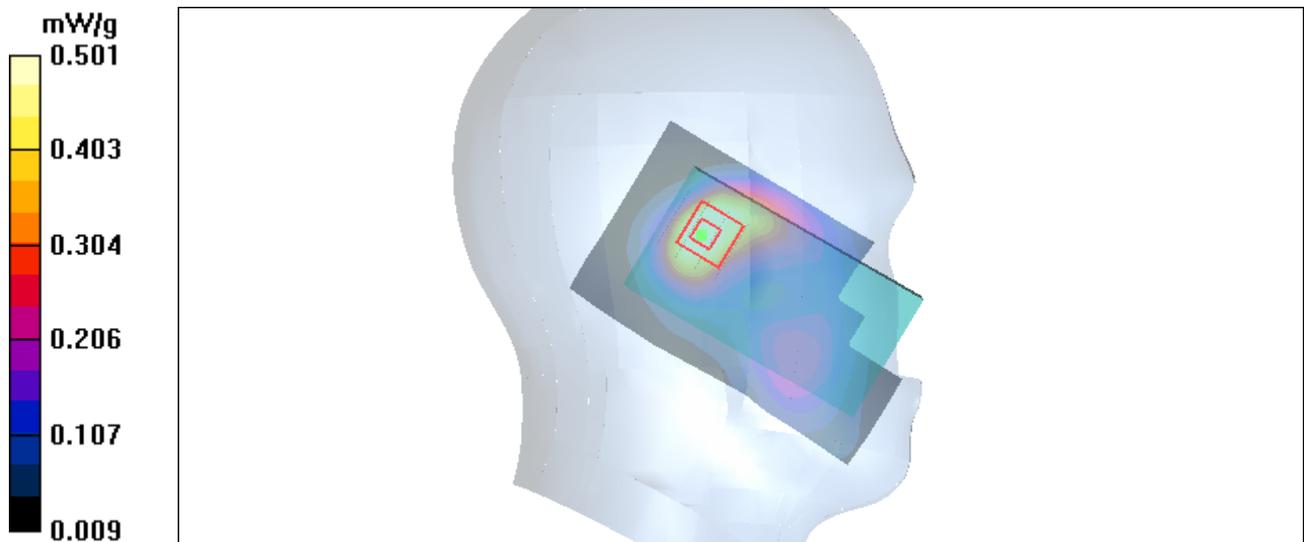


Figure 40 CDMA PCS Left Hand Tilt 15° Channel 600

### CDMA PCS Right Cheek High

Date/Time: 4/28/2011 6:36:47 PM

Communication System: CDMA PCS; Frequency: 1908.75 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1908.75$  MHz;  $\sigma = 1.43$  mho/m;  $\epsilon_r = 39.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(7.94, 7.94, 7.94); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Cheek High/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.33 mW/g

**Cheek High/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.03 V/m; Power Drift = -0.095 dB

Peak SAR (extrapolated) = 1.77 W/kg

**SAR(1 g) = 1.26 mW/g; SAR(10 g) = 0.741 mW/g**

Maximum value of SAR (measured) = 1.23 mW/g

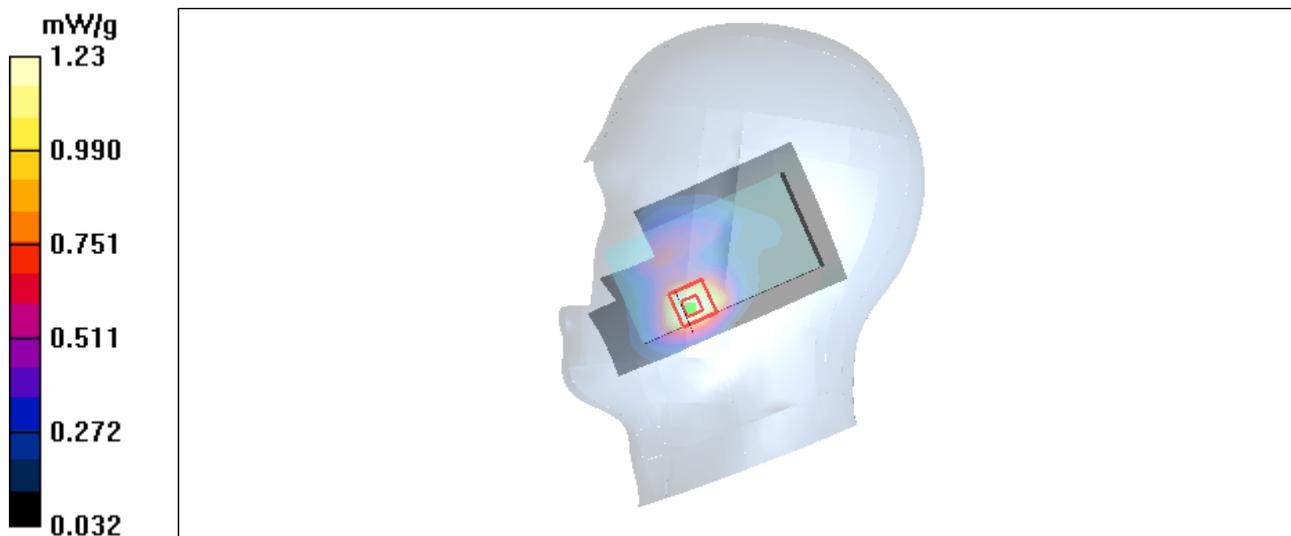


Figure 41 CDMA PCS Right Hand Touch Cheek Channel 1175

### CDMA PCS Right Cheek Middle

Date/Time: 4/28/2011 5:31:42 PM

Communication System: CDMA PCS; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.39$  mho/m;  $\epsilon_r = 40.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(7.94, 7.94, 7.94); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Cheek Middle/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.42 mW/g

**Cheek Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.0 V/m; Power Drift = -0.002 dB

Peak SAR (extrapolated) = 1.88 W/kg

**SAR(1 g) = 1.33 mW/g; SAR(10 g) = 0.808 mW/g**

Maximum value of SAR (measured) = 1.50 mW/g

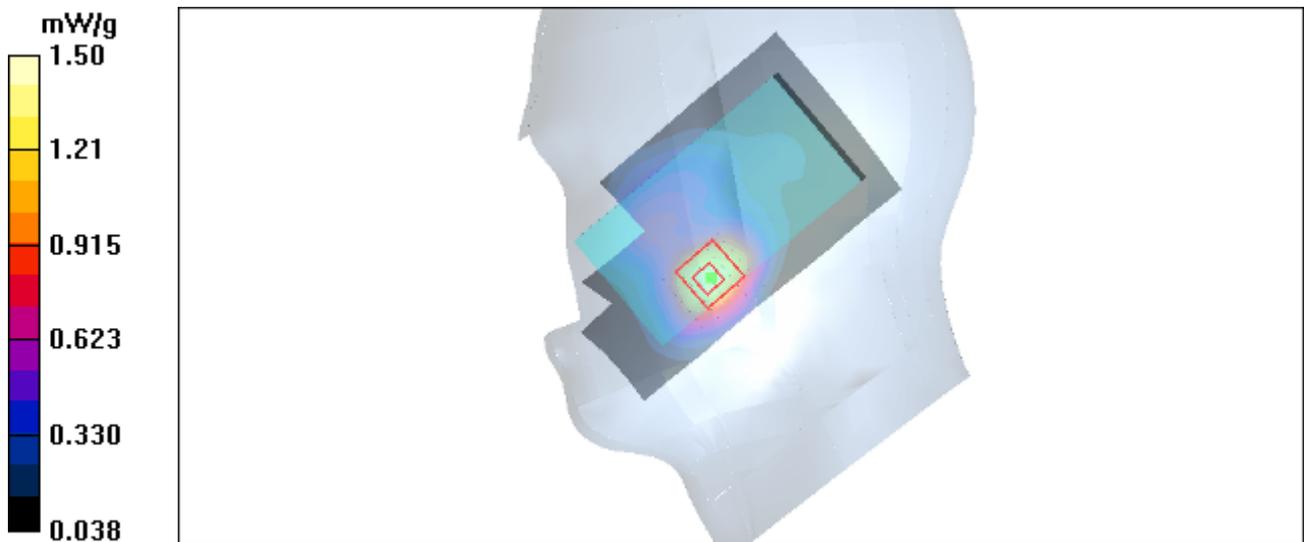


Figure 42 CDMA PCS Right Hand Touch Cheek Channel 600

### CDMA PCS Right Cheek Low

Date/Time: 4/28/2011 6:49:06 PM

Communication System: CDMA PCS; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1852$  MHz;  $\sigma = 1.38$  mho/m;  $\epsilon_r = 40.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(7.94, 7.94, 7.94); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Cheek Low/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.43 mW/g

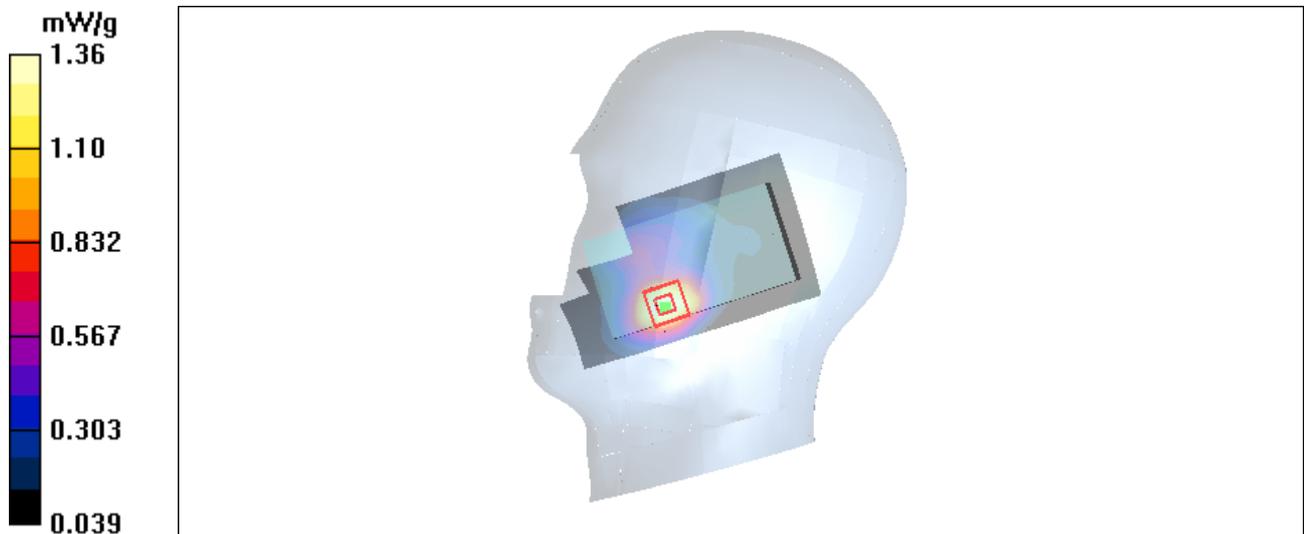
**Cheek Low/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.55 V/m; Power Drift = -0.002 dB

Peak SAR (extrapolated) = 1.82 W/kg

**SAR(1 g) = 1.34 mW/g; SAR(10 g) = 0.821 mW/g**

Maximum value of SAR (measured) = 1.36 mW/g



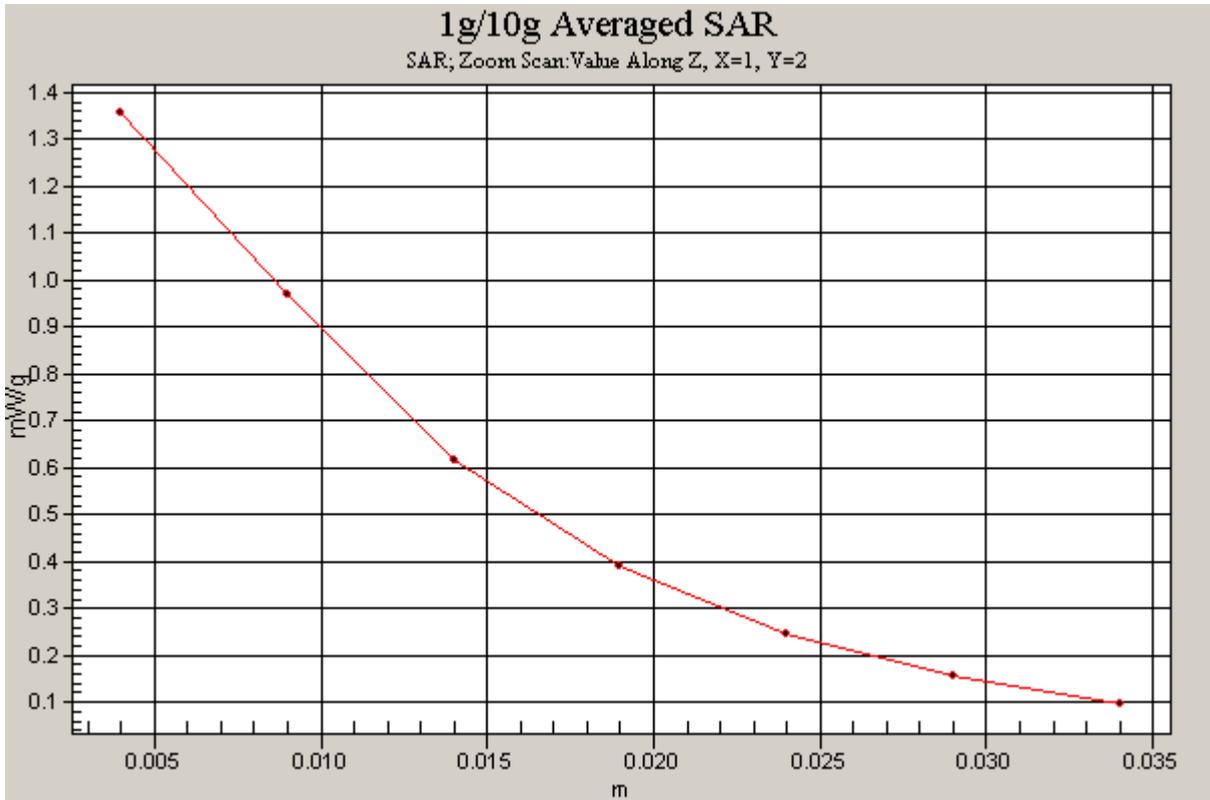


Figure 43 CDMA PCS Right Hand Touch Cheek Channel 25

### CDMA PCS Right Tilt Middle

Date/Time: 4/28/2011 5:47:12 PM

Communication System: CDMA PCS; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.39$  mho/m;  $\epsilon_r = 40.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(7.94, 7.94, 7.94); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Tilt Middle/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.598 mW/g

**Tilt Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.7 V/m; Power Drift = -0.032 dB

Peak SAR (extrapolated) = 0.720 W/kg

**SAR(1 g) = 0.515 mW/g; SAR(10 g) = 0.306 mW/g**

Maximum value of SAR (measured) = 0.556 mW/g

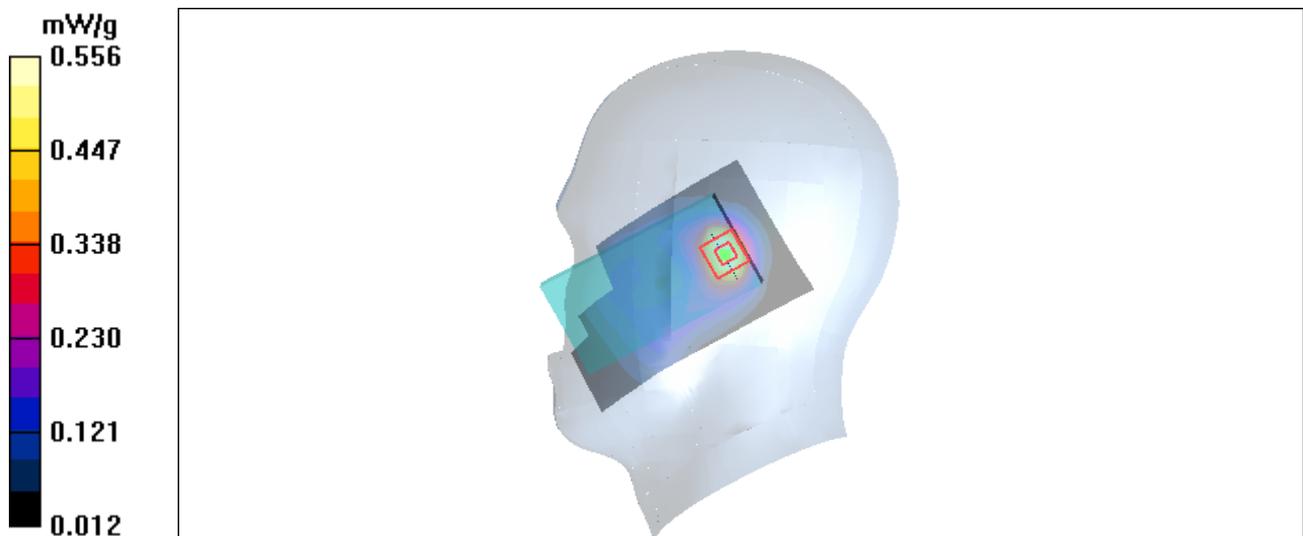


Figure 44 Right Hand Tilt 15° CDMA PCS Channel 600

### CDMA PCS Towards Ground Middle

Date/Time: 4/29/2011 5:59:34 AM

Communication System: CDMA PCS; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 53.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(7.77, 7.77, 7.77); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Ground Middle/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.587 mW/g

**Towards Ground Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.3 V/m; Power Drift = 0.063 dB

Peak SAR (extrapolated) = 0.960 W/kg

**SAR(1 g) = 0.526 mW/g; SAR(10 g) = 0.318 mW/g**

Maximum value of SAR (measured) = 0.563 mW/g

**Towards Ground Middle/Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.3 V/m; Power Drift = 0.063 dB

Peak SAR (extrapolated) = 0.926 W/kg

**SAR(1 g) = 0.504 mW/g; SAR(10 g) = 0.310 mW/g**

Maximum value of SAR (measured) = 0.544 mW/g

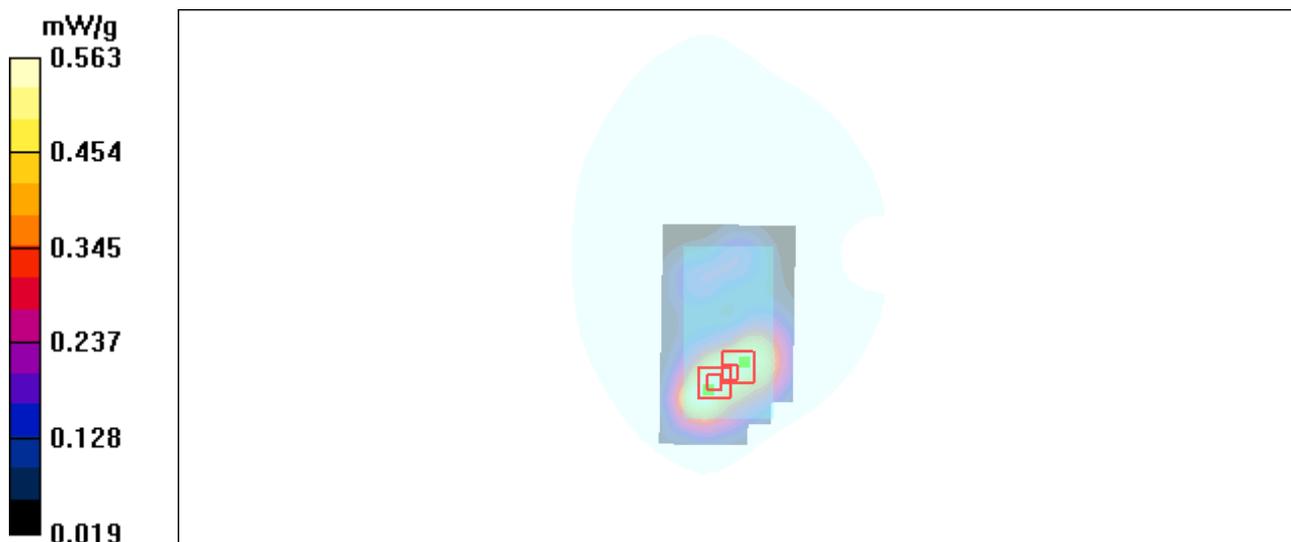


Figure 45 Body, CDMA PCS Towards Ground Channel 600

### CDMA PCS Towards Phantom High

Date/Time: 4/29/2011 6:18:58 AM

Communication System: CDMA PCS; Frequency: 1908.75 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1908.75$  MHz;  $\sigma = 1.54$  mho/m;  $\epsilon_r = 53.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(7.77, 7.77, 7.77); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Phantom High/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.740 mW/g

**Towards Phantom High/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.3 V/m; Power Drift = -0.069 dB

Peak SAR (extrapolated) = 1.10 W/kg

**SAR(1 g) = 0.629 mW/g; SAR(10 g) = 0.380 mW/g**

Maximum value of SAR (measured) = 0.630 mW/g

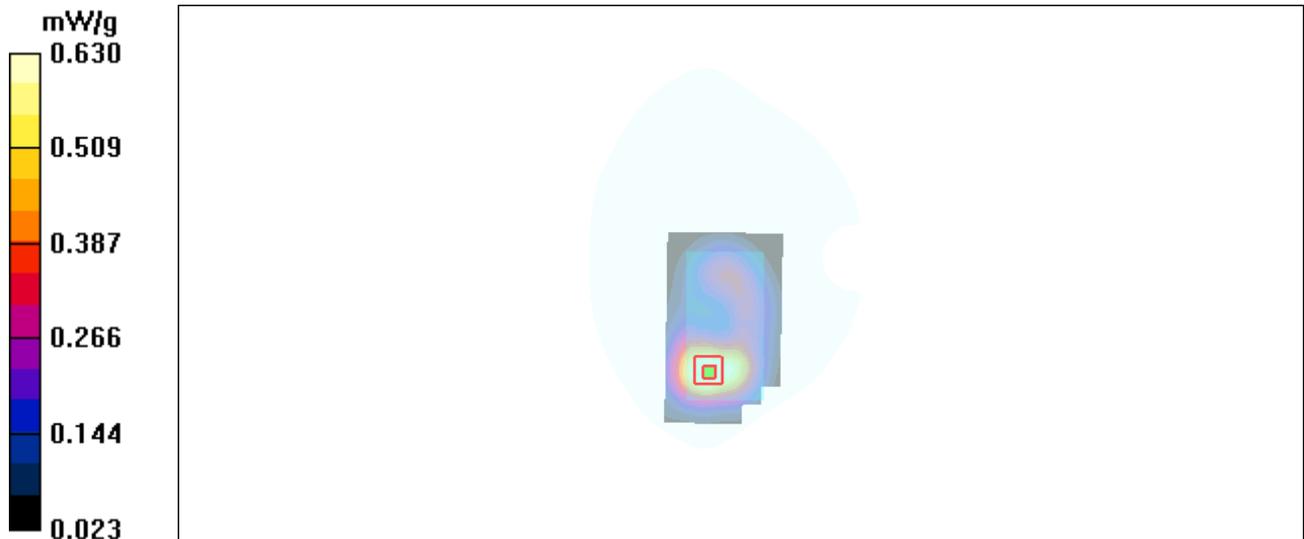


Figure 46 Body, CDMA PCS Towards Phantom Channel 1175

### CDMA PCS Towards Phantom Middle

Date/Time: 4/29/2011 6:43:08 AM

Communication System: CDMA PCS; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 53.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(7.77, 7.77, 7.77); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Phantom Middle/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.720 mW/g

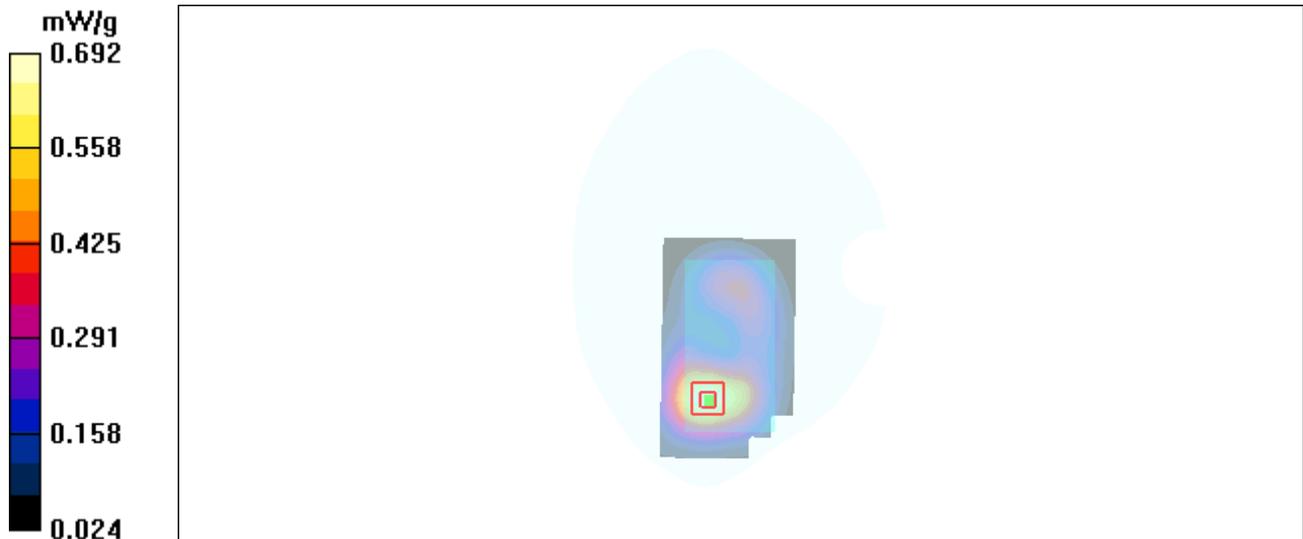
**Towards Phantom Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.9 V/m; Power Drift = -0.006 dB

Peak SAR (extrapolated) = 1.17 W/kg

**SAR(1 g) = 0.672 mW/g; SAR(10 g) = 0.407 mW/g**

Maximum value of SAR (measured) = 0.692 mW/g



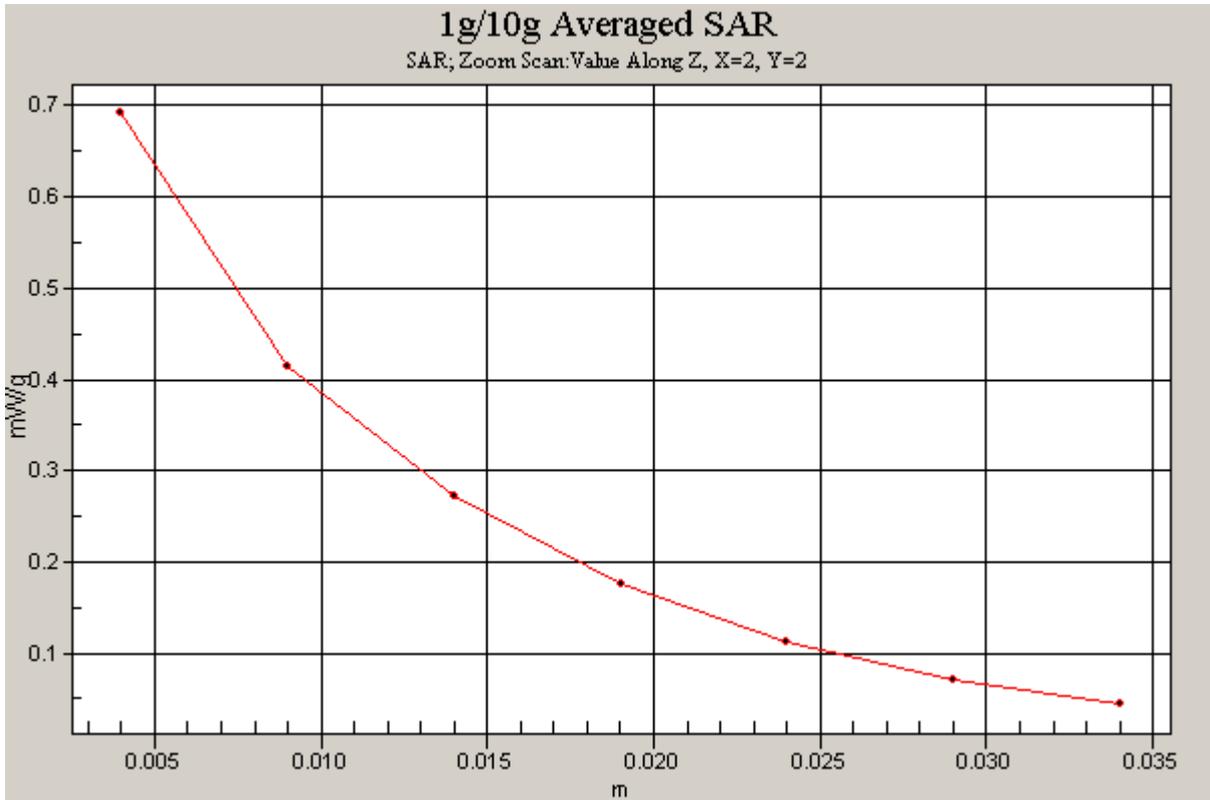


Figure 47 Body, CDMA PCS Towards Phantom Channel 600

### CDMA PCS Towards Phantom Low

Date/Time: 4/29/2011 6:30:38 AM

Communication System: CDMA PCS; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1852$  MHz;  $\sigma = 1.48$  mho/m;  $\epsilon_r = 53.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(7.77, 7.77, 7.77); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Phantom Low/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.652 mW/g

**Towards Phantom Low/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.3 V/m; Power Drift = -0.083 dB

Peak SAR (extrapolated) = 1.02 W/kg

**SAR(1 g) = 0.603 mW/g; SAR(10 g) = 0.369 mW/g**

Maximum value of SAR (measured) = 0.618 mW/g

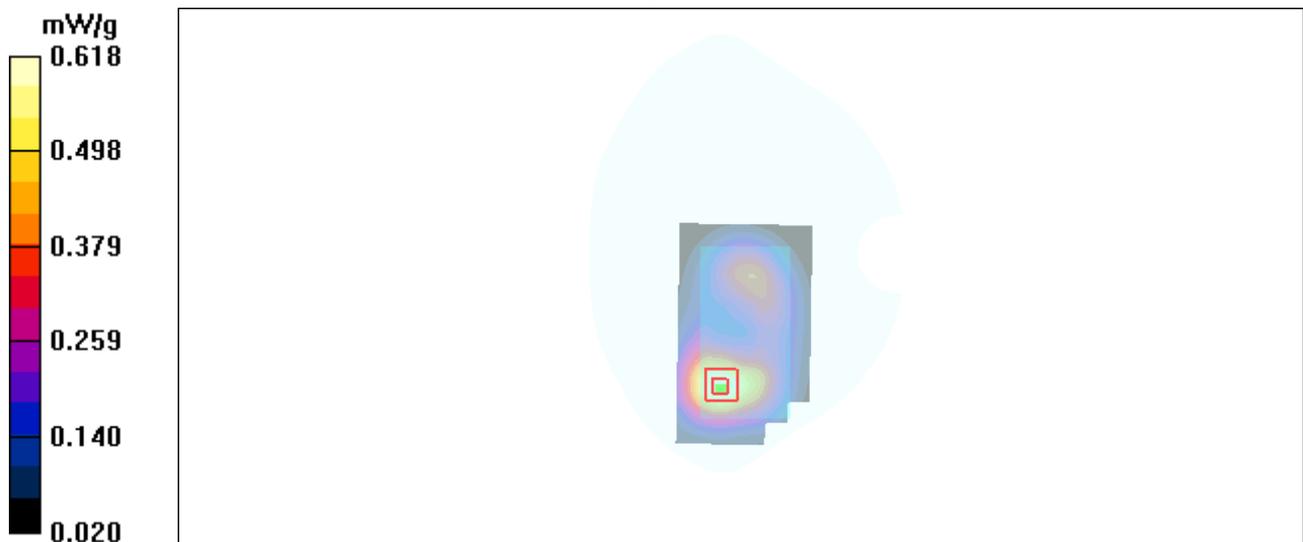


Figure 48 Body, CDMA PCS Towards Phantom Channel 25

### CDMA PCS with EVDO Rev.0 Towards Phantom Middle

Date/Time: 4/29/2011 7:11:26 AM

Communication System: CDMA PCS EVDO REV.0; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 53.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(7.77, 7.77, 7.77); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Phantom Middle/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.698 mW/g

**Towards Phantom Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.0 V/m; Power Drift = 0.002 dB

Peak SAR (extrapolated) = 1.13 W/kg

**SAR(1 g) = 0.640 mW/g; SAR(10 g) = 0.388 mW/g**

Maximum value of SAR (measured) = 0.657 mW/g

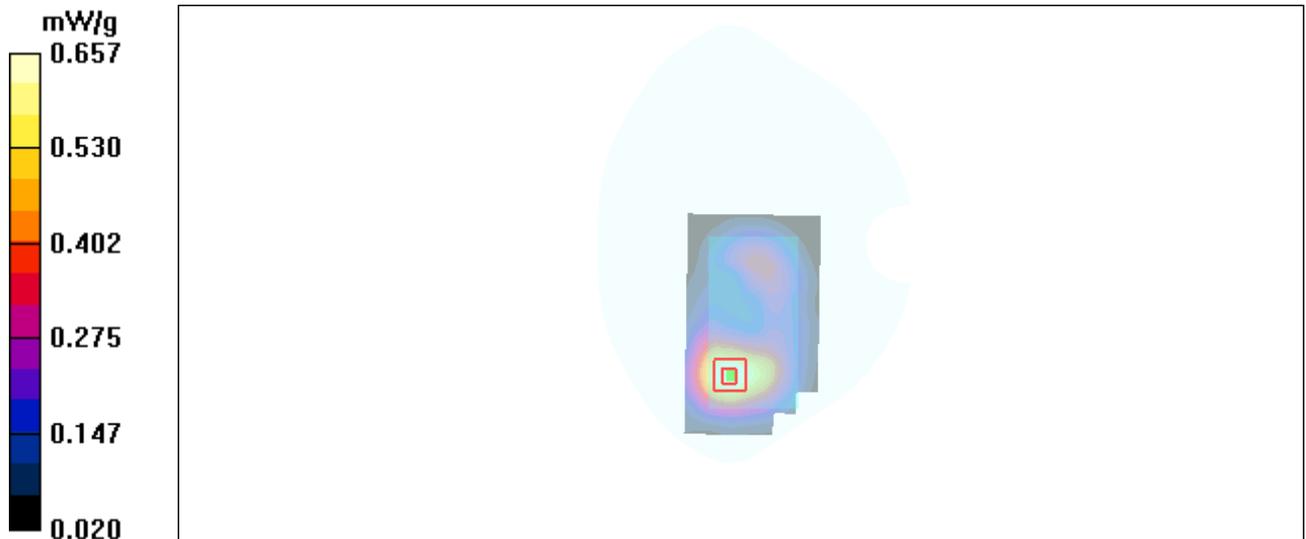


Figure 49 Body, CDMA PCS with EVDO Rev.0 Towards Phantom Channel 600

### CDMA PCS with EVDO Rev.A Towards Phantom Middle

Date/Time: 4/29/2011 7:31:34 AM

Communication System: CDMA PCS EVDO REV.A; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 53.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(7.77, 7.77, 7.77); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Phantom Middle/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.729 mW/g

**Towards Phantom Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.1 V/m; Power Drift = -0.002 dB

Peak SAR (extrapolated) = 1.12 W/kg

**SAR(1 g) = 0.664 mW/g; SAR(10 g) = 0.405 mW/g**

Maximum value of SAR (measured) = 0.685 mW/g

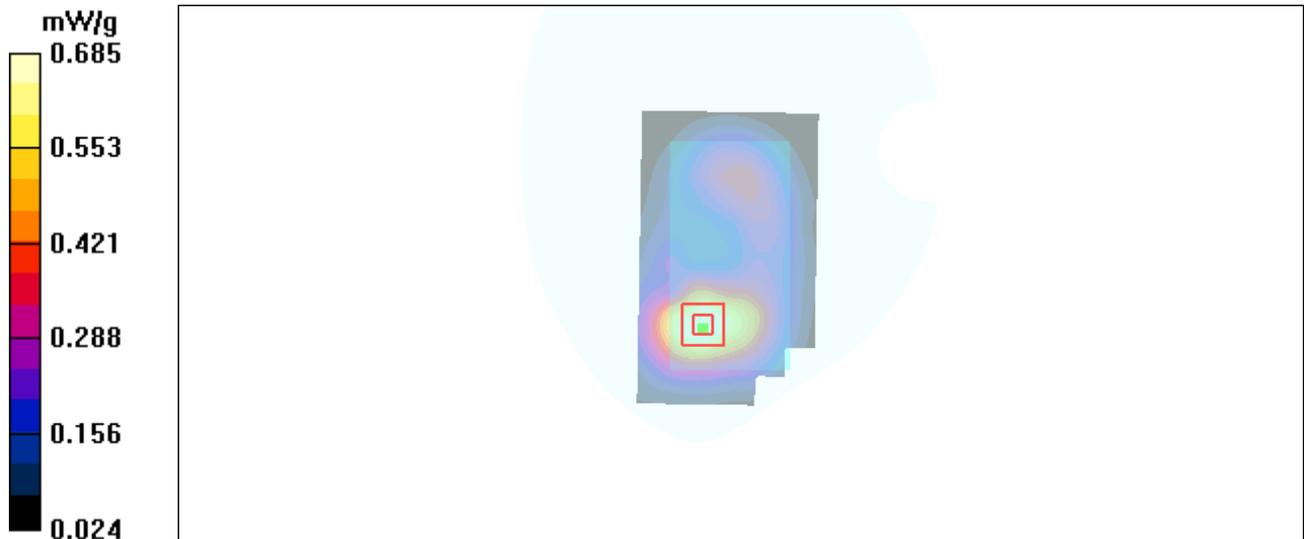


Figure 50 Body, CDMA PCS with EVDO Rev.A Towards Phantom Channel 600

### CDMA PCS with Earphone Towards Phantom Middle

Date/Time: 4/29/2011 6:57:57 AM

Communication System: CDMA PCS; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 53.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(7.77, 7.77, 7.77); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Phantom Middle/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.674 mW/g

**Towards Phantom Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.3 V/m; Power Drift = -0.032 dB

Peak SAR (extrapolated) = 1.10 W/kg

**SAR(1 g) = 0.631 mW/g; SAR(10 g) = 0.383 mW/g**

Maximum value of SAR (measured) = 0.636 mW/g



Figure 51 Body, CDMA PCS with Earphone Towards Phantom Channel 600

### CDMA PCS with EVDO Rev.0 (Hot spots) Towards Ground High

Date/Time: 4/29/2011 8:32:35 AM

Communication System: CDMA PCS EVDO Rev.0; Frequency: 1908.75 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1908.75$  MHz;  $\sigma = 1.54$  mho/m;  $\epsilon_r = 53.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(7.77, 7.77, 7.77); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Ground High/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.853 mW/g

**Towards Ground High/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.3 V/m; Power Drift = -0.074 dB

Peak SAR (extrapolated) = 1.25 W/kg

**SAR(1 g) = 0.741 mW/g; SAR(10 g) = 0.456 mW/g**

Maximum value of SAR (measured) = 0.793 mW/g

**Towards Ground High/Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.3 V/m; Power Drift = -0.074 dB

Peak SAR (extrapolated) = 1.51 W/kg

**SAR(1 g) = 0.800 mW/g; SAR(10 g) = 0.476 mW/g**

Maximum value of SAR (measured) = 0.858 mW/g

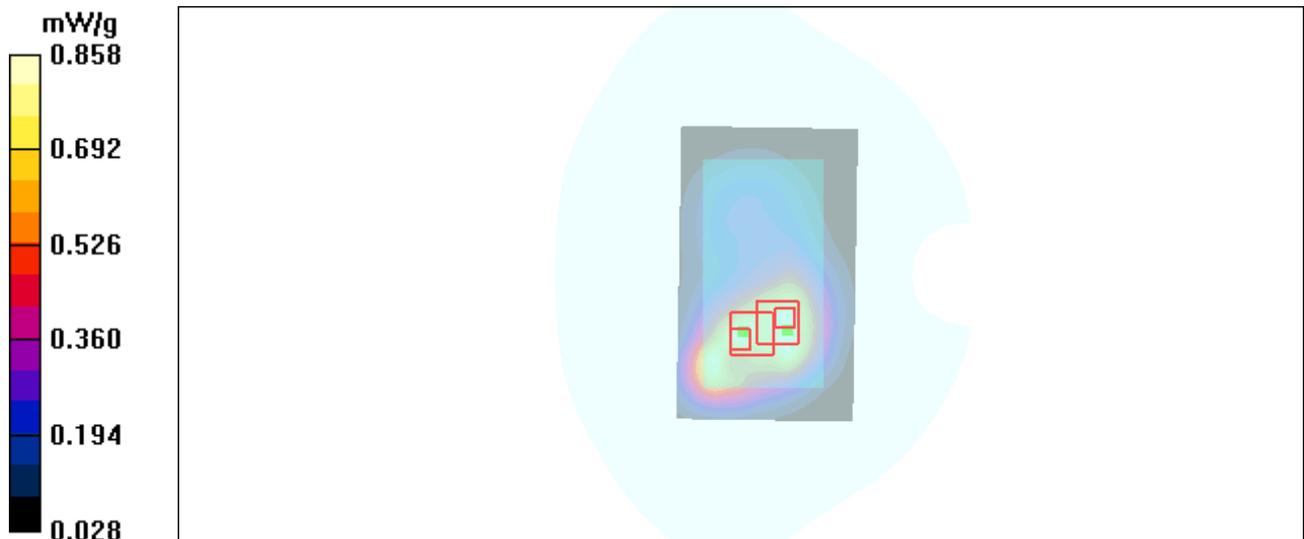


Figure 52 Body, Towards Ground, CDMA PCS with EVDO Rev.0 Channel 1175

**CDMA PCS with EVDO Rev.0 (Hot spots) Towards Ground Middle**

Date/Time: 4/29/2011 7:57:08 AM

Communication System: CDMA PCS EVDO Rev.0; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 53.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(7.77, 7.77, 7.77); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Ground Middle/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.53 mW/g

**Towards Ground Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.8 V/m; Power Drift = 0.015 dB

Peak SAR (extrapolated) = 2.22 W/kg

**SAR(1 g) = 1.08 mW/g; SAR(10 g) = 0.621 mW/g**

Maximum value of SAR (measured) = 1.17 mW/g

**Towards Ground Middle/Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.8 V/m; Power Drift = 0.015 dB

Peak SAR (extrapolated) = 3.22 W/kg

**SAR(1 g) = 0.855 mW/g; SAR(10 g) = 0.356 mW/g**

Maximum value of SAR (measured) = 1.21 mW/g

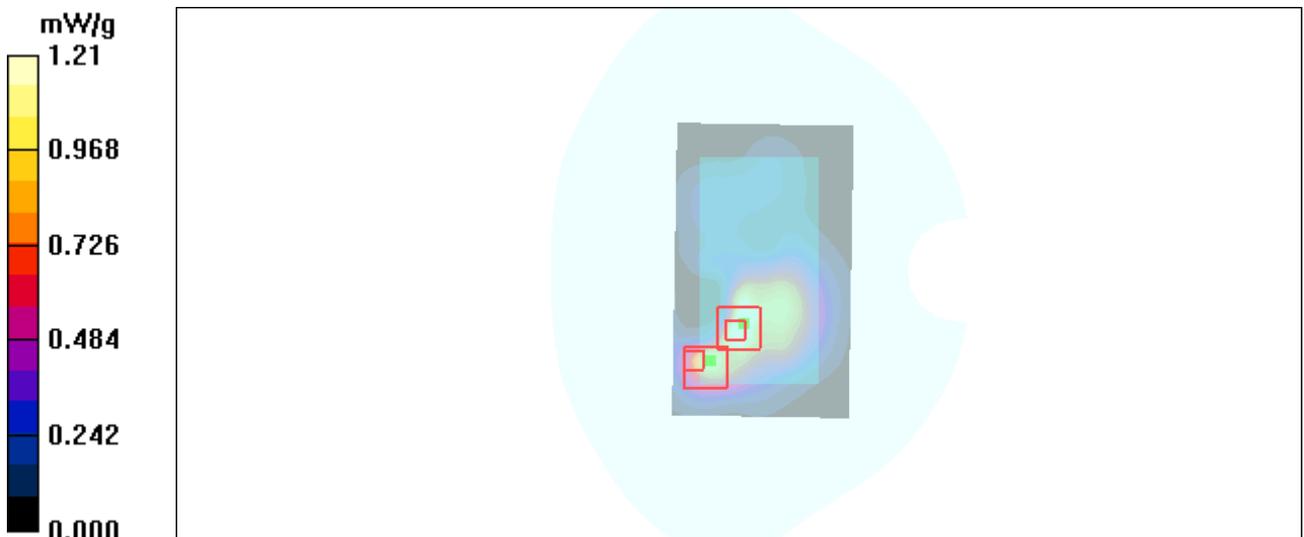


Figure 53 Body, Towards Ground, CDMA PCS with EVDO Rev.0 Channel 600

**CDMA PCS with EVDO Rev.0 (Hot spots) Towards Ground Low**

Date/Time: 4/29/2011 9:24:14 AM

Communication System: CDMA PCS EVDO Rev.0; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1852$  MHz;  $\sigma = 1.48$  mho/m;  $\epsilon_r = 53.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(7.77, 7.77, 7.77); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Ground Low/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.01 mW/g

**Towards Ground Low/Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.7 V/m; Power Drift = -0.160 dB

Peak SAR (extrapolated) = 1.95 W/kg

**SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.573 mW/g**

Maximum value of SAR (measured) = 1.10 mW/g

**Towards Ground Low/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.7 V/m; Power Drift = -0.160 dB

Peak SAR (extrapolated) = 1.81 W/kg

**SAR(1 g) = 0.944 mW/g; SAR(10 g) = 0.572 mW/g**

Maximum value of SAR (measured) = 1.11 mW/g

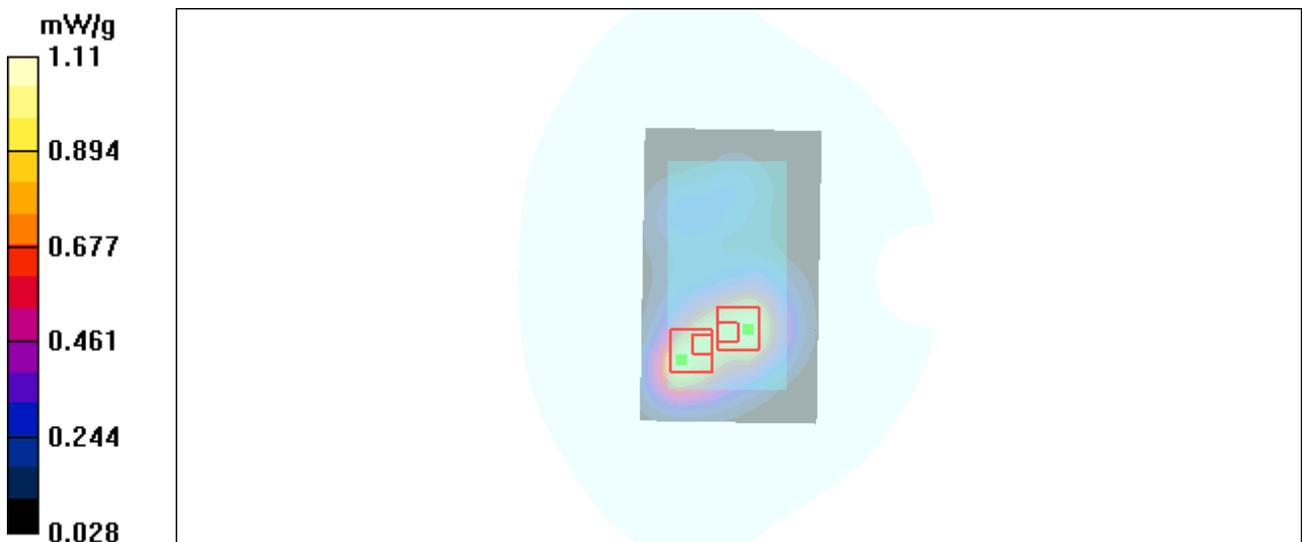


Figure 54 Body, Towards Ground, CDMA PCS with EVDO Rev.0 Channel 25

### CDMA PCS with EVDO Rev.0 (Hot spots) Towards Phantom High

Date/Time: 5/2/2011 1:16:15 PM

Communication System: CDMA PCS EVDO Rev.0; Frequency: 1908.75 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1908.75$  MHz;  $\sigma = 1.54$  mho/m;  $\epsilon_r = 53.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(7.77, 7.77, 7.77); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Phantom High/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.13 mW/g

**Towards Phantom High/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.1 V/m; Power Drift = 0.034 dB

Peak SAR (extrapolated) = 1.81 W/kg

**SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.630 mW/g**

Maximum value of SAR (measured) = 1.07 mW/g

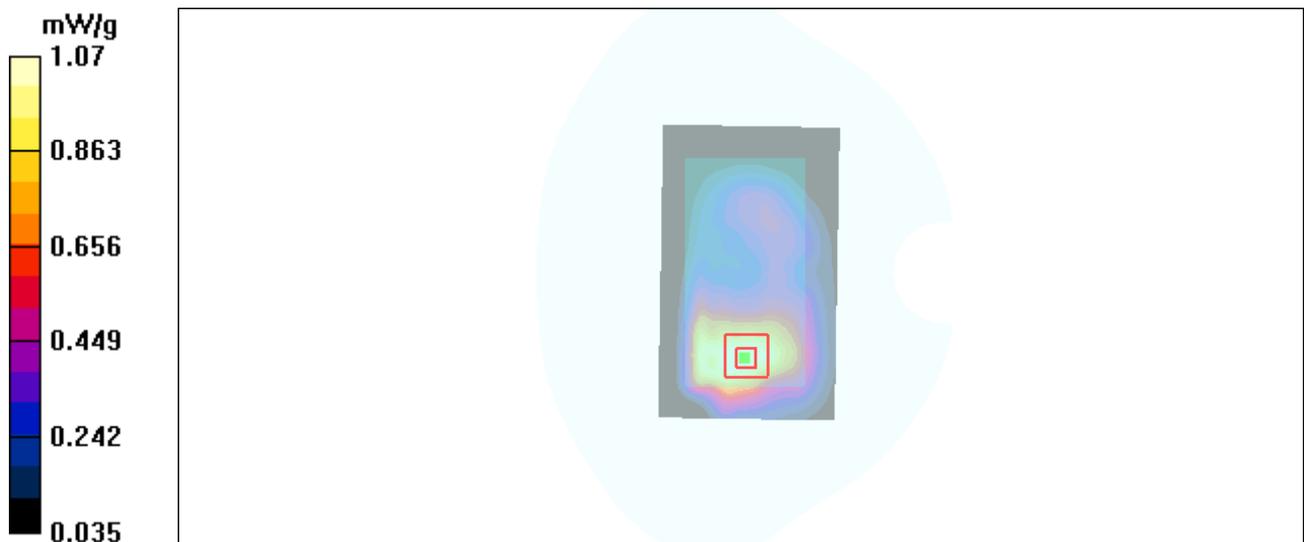


Figure 55 Body, Towards Phantom, CDMA PCS with EVDO Rev.0 Channel 1175

**CDMA PCS with EVDO Rev.0 (Hot spots) Towards Phantom Middle**

Date/Time: 5/2/2011 1:03:16 PM

Communication System: CDMA PCS EVDO Rev.0; Frequency: 1880 MHz;Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 53.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature:22.3 °C      Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(7.77, 7.77, 7.77); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Phantom Middle/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.17 mW/g

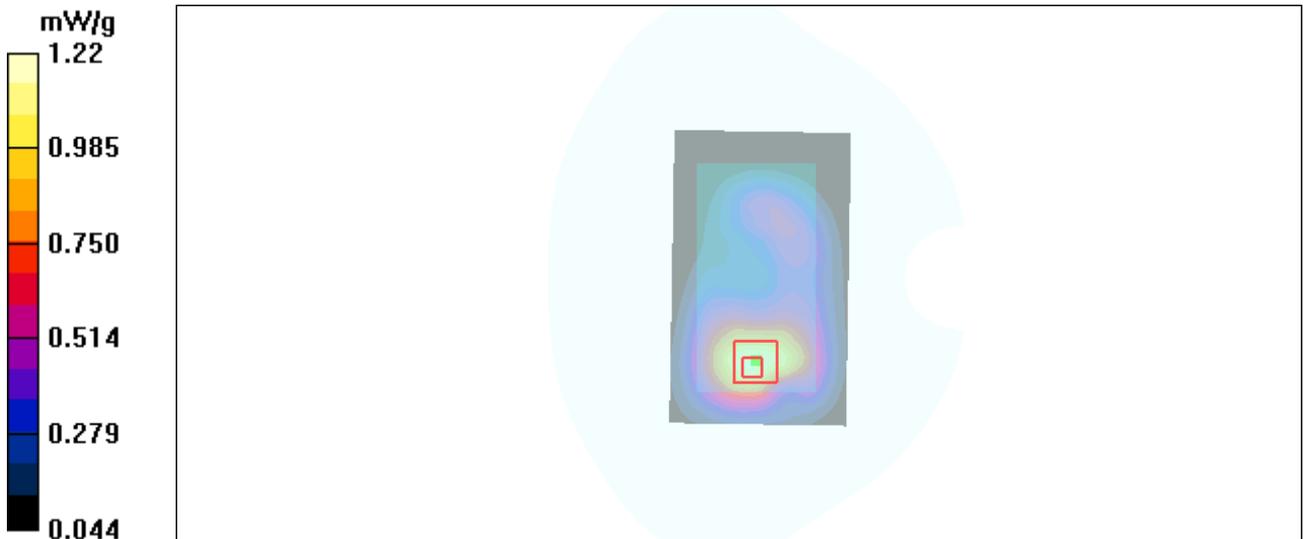
**Towards Phantom Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.1 V/m; Power Drift = 0.071 dB

Peak SAR (extrapolated) = 1.87 W/kg

**SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.691 mW/g**

Maximum value of SAR (measured) = 1.22 mW/g



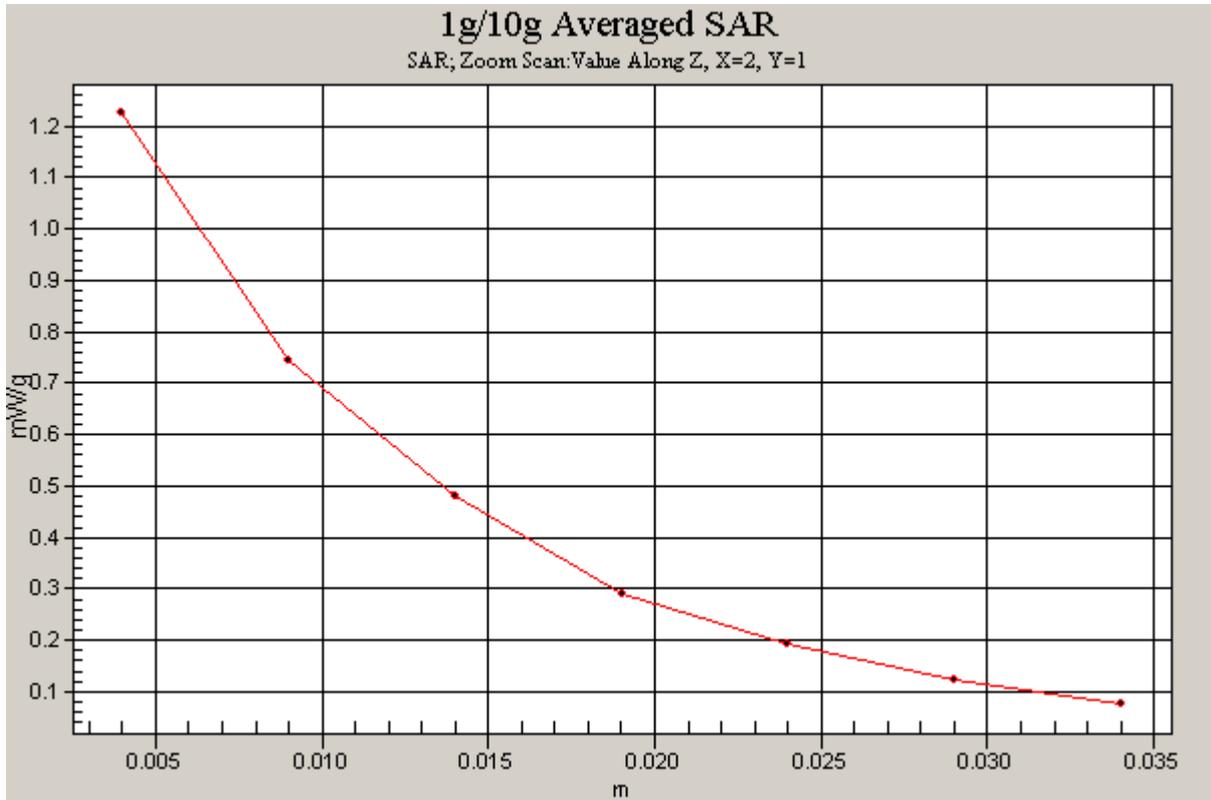


Figure 56 Body, Towards Phantom, CDMA PCS with EVDO Rev.0 Channel 600

**CDMA PCS with EVDO Rev.0 (Hot spots) Towards Phantom Low**

Date/Time: 5/2/2011 1:36:12 PM

Communication System: CDMA PCS EVDO Rev.0; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1852$  MHz;  $\sigma = 1.48$  mho/m;  $\epsilon_r = 53.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(7.77, 7.77, 7.77); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Phantom Low/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.20 mW/g

**Towards Phantom Low/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.7 V/m; Power Drift = -0.022 dB

Peak SAR (extrapolated) = 1.87 W/kg

**SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.676 mW/g**

Maximum value of SAR (measured) = 1.14 mW/g

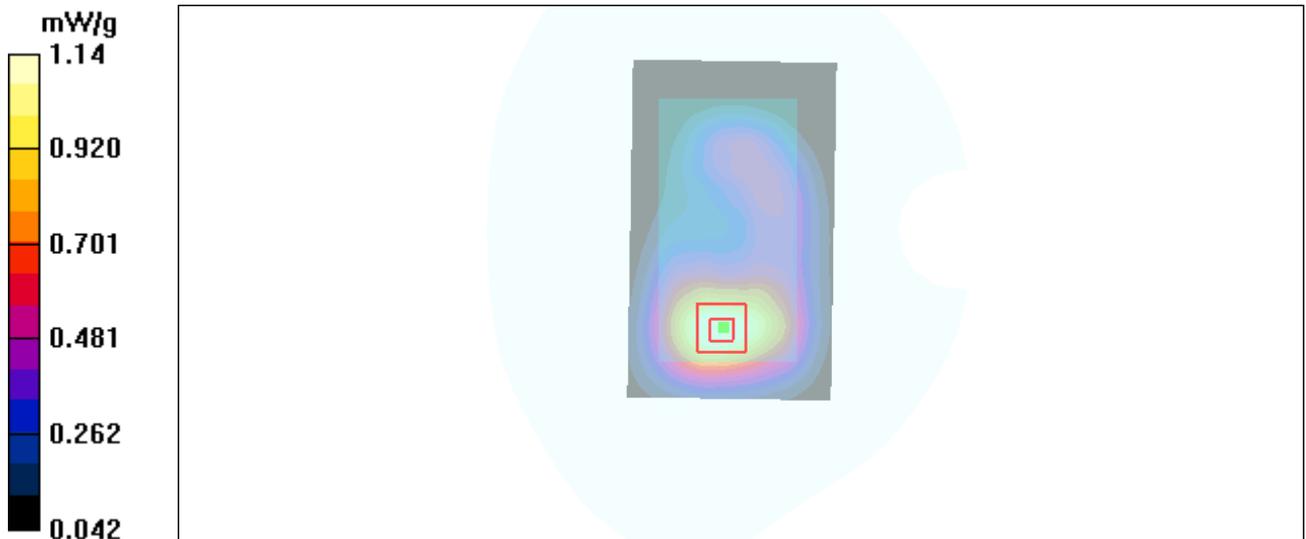


Figure 57 Body, Towards Phantom, CDMA PCS with EVDO Rev.0 Channel 25

**CDMA PCS with EVDO Rev.0 (Hot spots) Left Edge Middle**

Date/Time: 4/30/2011 3:25:00 AM

Communication System: CDMA PCS EVDO Rev.0; Frequency: 1880 MHz;Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 53.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature:22.3 °C      Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(7.77, 7.77, 7.77); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Left Edge Middle/Area Scan (41x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.485 mW/g

**Left Edge Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.1 V/m; Power Drift = -0.013 dB

Peak SAR (extrapolated) = 0.775 W/kg

**SAR(1 g) = 0.437 mW/g; SAR(10 g) = 0.253 mW/g**

Maximum value of SAR (measured) = 0.444 mW/g

**Left Edge Middle/Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.1 V/m; Power Drift = -0.013 dB

Peak SAR (extrapolated) = 0.628 W/kg

**SAR(1 g) = 0.378 mW/g; SAR(10 g) = 0.227 mW/g**

Maximum value of SAR (measured) = 0.389 mW/g

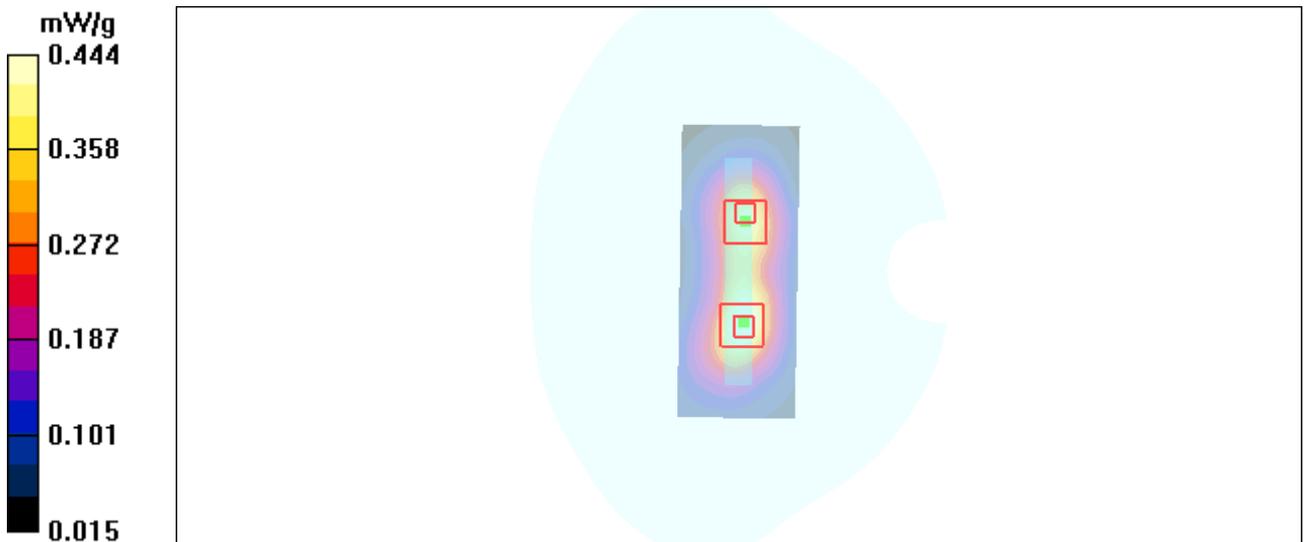


Figure 58 Body, Left Edge, CDMA PCS with EVDO Rev.0 Channel 600

### CDMA PCS with EVDO Rev.0 (Hot spots) Right Edge Middle

Date/Time: 5/2/2011 10:42:39 AM

Communication System: CDMA PCS EVDO Rev.0; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 53.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(7.77, 7.77, 7.77); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Right Edge Middle/Area Scan (31x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.365 mW/g

**Right Edge Middle/Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.4 V/m; Power Drift = -0.023 dB

Peak SAR (extrapolated) = 0.444 W/kg

**SAR(1 g) = 0.252 mW/g; SAR(10 g) = 0.147 mW/g**

Maximum value of SAR (measured) = 0.263 mW/g

**Right Edge Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.4 V/m; Power Drift = -0.023 dB

Peak SAR (extrapolated) = 0.855 W/kg

**SAR(1 g) = 0.373 mW/g; SAR(10 g) = 0.211 mW/g**

Maximum value of SAR (measured) = 0.381 mW/g

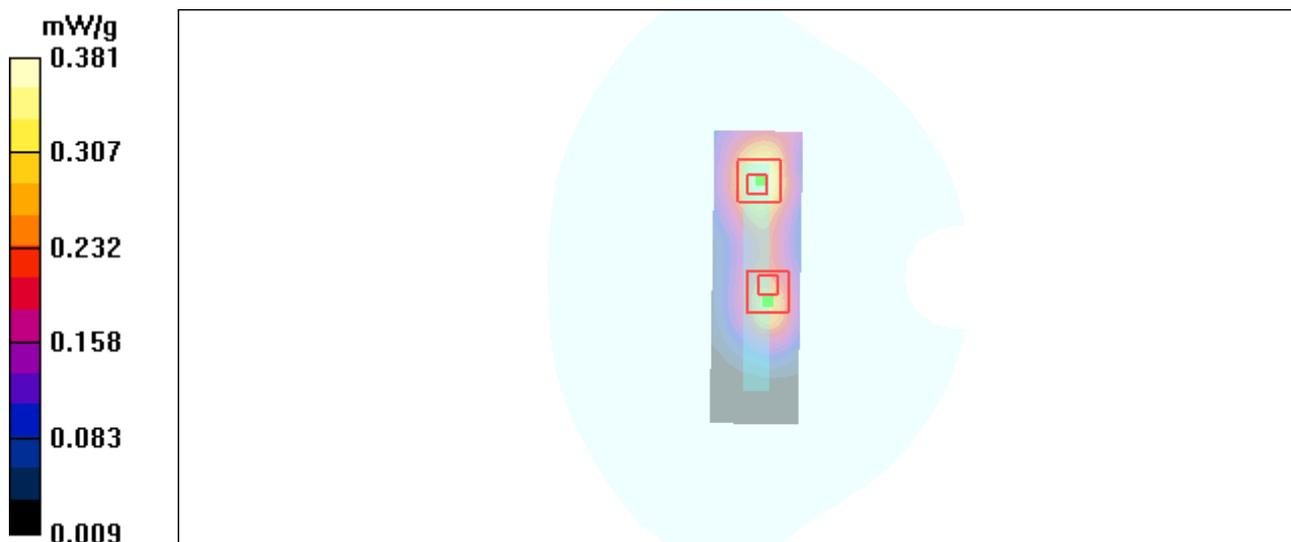


Figure 59 Body, Right Edge, CDMA PCS with EVDO Rev.0 Channel 600

**CDMA PCS with EVDO Rev.0 (Hot spots) Bottom Edge Middle**

Date/Time: 5/2/2011 10:59:11 AM

Communication System: CDMA PCS EVDO Rev.0; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 53.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(7.77, 7.77, 7.77); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Bottom Edge Middle/Area Scan (31x71x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.718 mW/g

**Bottom Edge Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.3 V/m; Power Drift = -0.099 dB

Peak SAR (extrapolated) = 1.20 W/kg

**SAR(1 g) = 0.646 mW/g; SAR(10 g) = 0.367 mW/g**

Maximum value of SAR (measured) = 0.644 mW/g

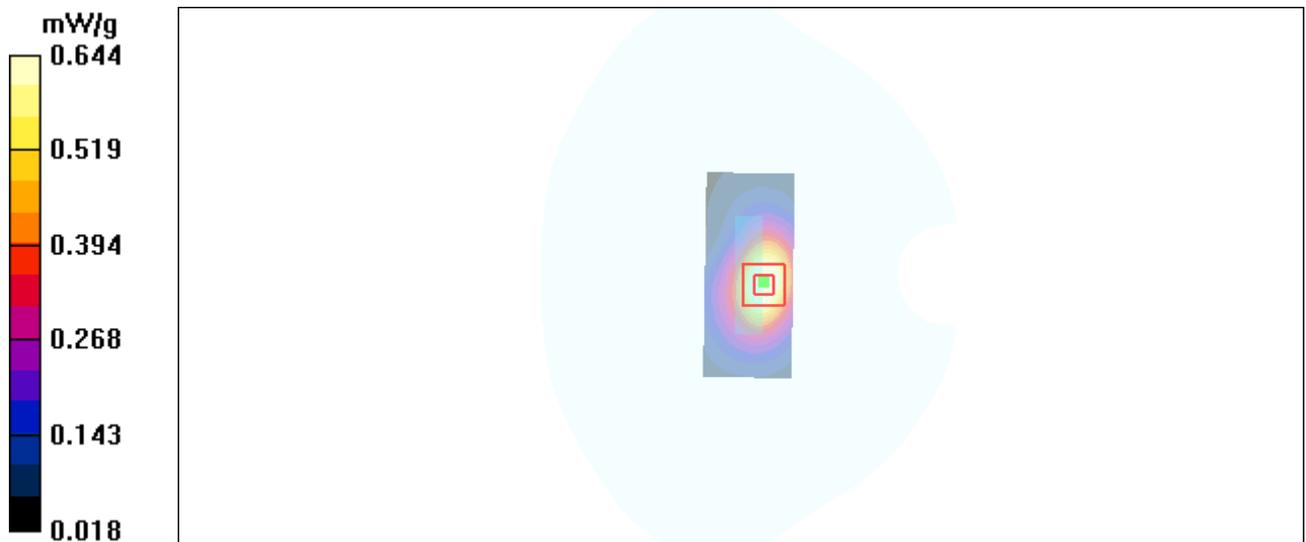


Figure 60 Body, Bottom Edge, CDMA PCS with EVDO Rev.0 Channel 600

**CDMA PCS with 1XRTT (hot spots) Towards Phantom Middle**

Date/Time: 5/2/2011 12:05:54 PM

Communication System: CDMA PCS 1XRTT; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 53.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(7.77, 7.77, 7.77); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Phantom Middle/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.01 mW/g

**Towards Phantom Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm,

dz=5mm

Reference Value = 13.0 V/m; Power Drift = -0.073 dB

Peak SAR (extrapolated) = 1.62 W/kg

**SAR(1 g) = 0.937 mW/g; SAR(10 g) = 0.574 mW/g**

Maximum value of SAR (measured) = 0.961 mW/g

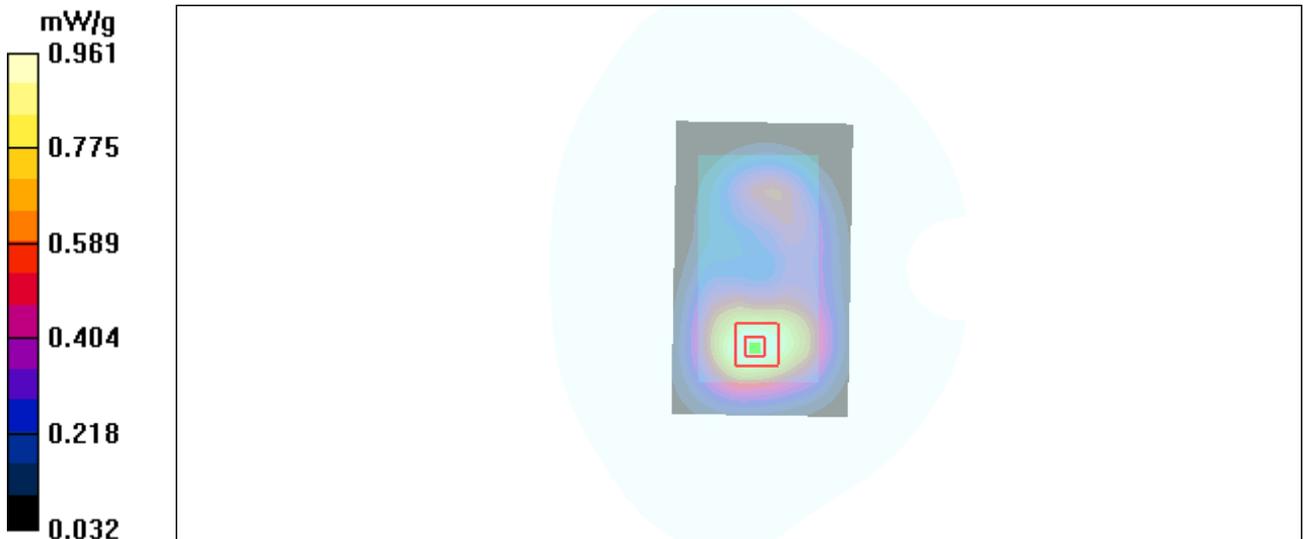


Figure 61 Body, Towards Phantom, CDMA PCS with 1XRTT Channel 600

### CDMA PCS with EVDO Rev.A (hot spots) Towards Phantom Middle

Date/Time: 5/2/2011 11:36:15 AM

Communication System: CDMA PCS EVDO Rev.A; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 53.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(7.77, 7.77, 7.77); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Phantom Middle/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.998 mW/g

**Towards Phantom Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.3 V/m; Power Drift = -0.098 dB

Peak SAR (extrapolated) = 1.78 W/kg

**SAR(1 g) = 0.933 mW/g; SAR(10 g) = 0.570 mW/g**

Maximum value of SAR (measured) = 0.977 mW/g

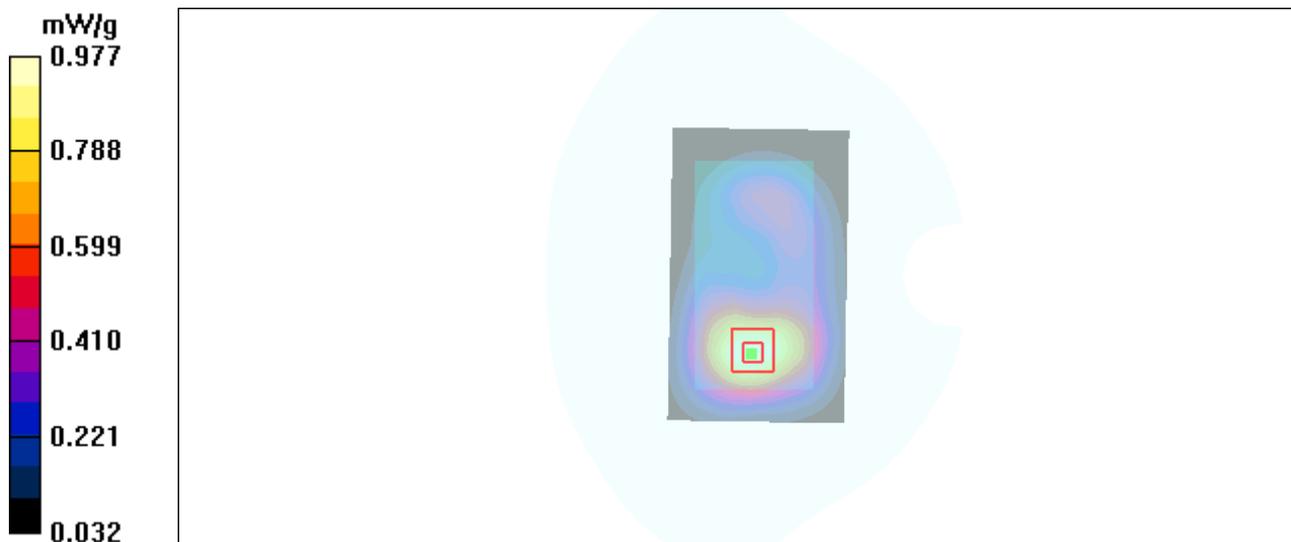


Figure 62 Body, Towards Phantom, CDMA PCS with EVDO Rev.A Channel 600

### CDMA AWS Left Cheek High

Date/Time: 4/29/2011 3:31:00 AM

Communication System: CDMA AWS; Frequency: 1752.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1752.5$  MHz;  $\sigma = 1.37$  mho/m;  $\epsilon_r = 39.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Left Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(8.22, 8.22, 8.22); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Cheek High/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.934 mW/g

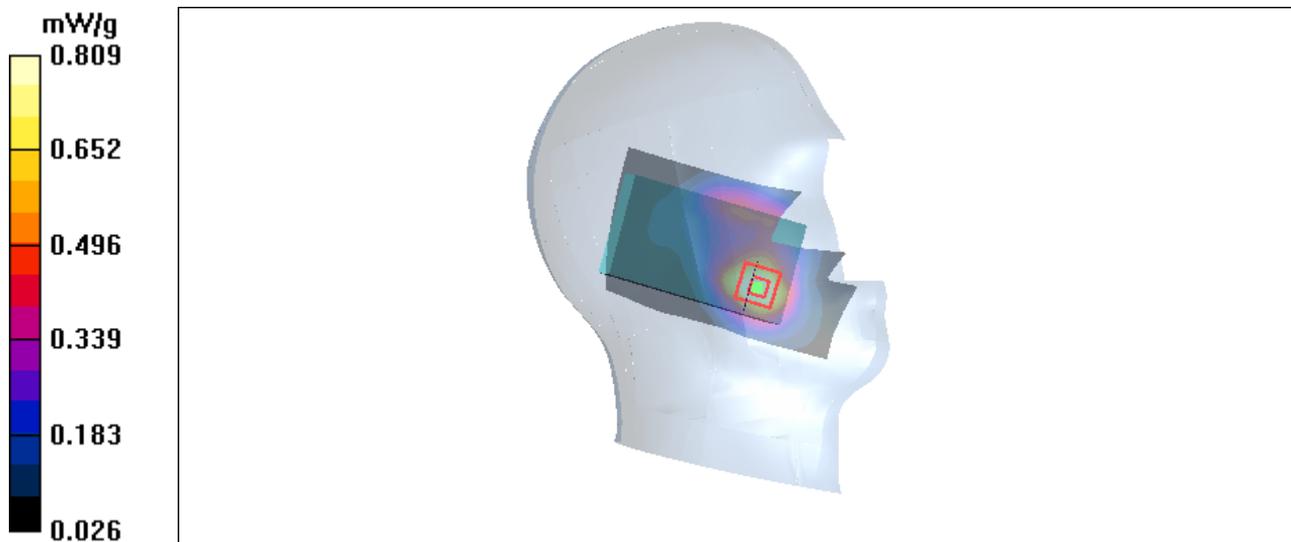
**Cheek High/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.61 V/m; Power Drift = -0.074 dB

Peak SAR (extrapolated) = 1.12 W/kg

**SAR(1 g) = 0.815 mW/g; SAR(10 g) = 0.500 mW/g**

Maximum value of SAR (measured) = 0.809 mW/g



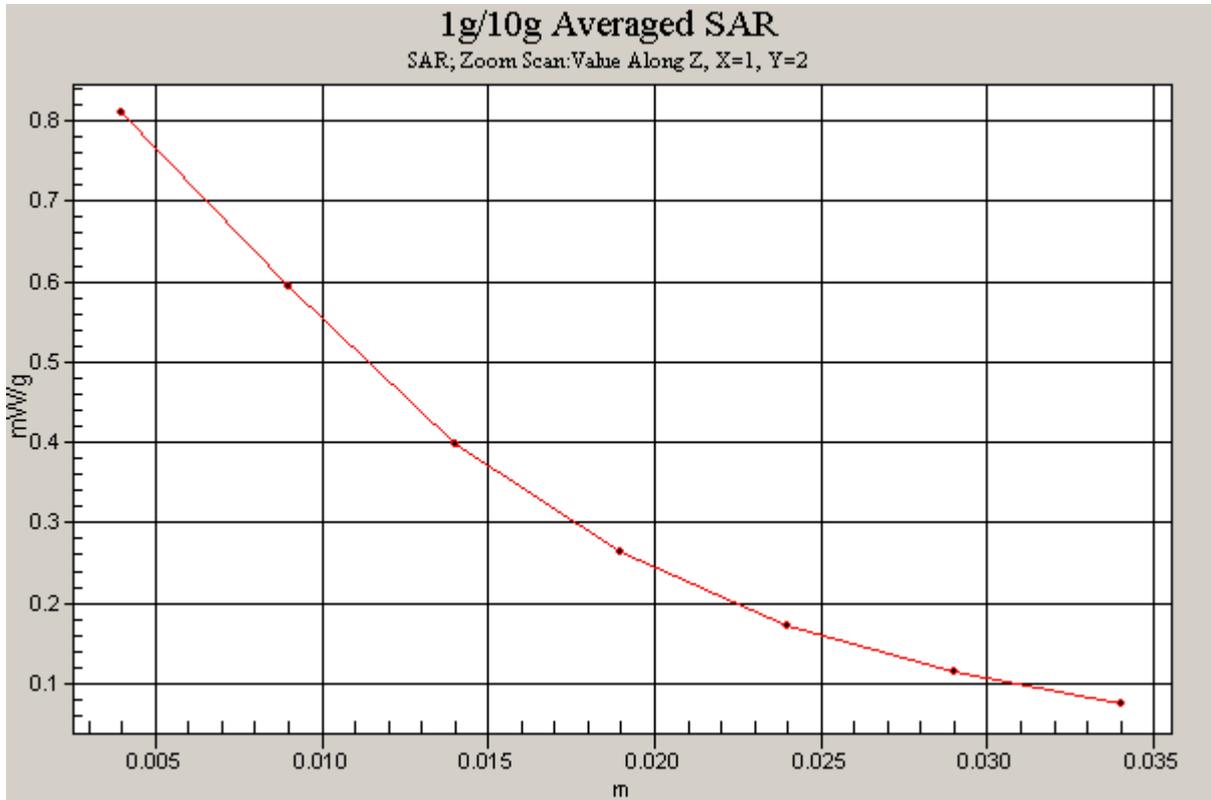


Figure 63 CDMA AWS Left Hand Touch Cheek Channel 850

**CDMA AWS Left Cheek Middle**

Date/Time: 4/29/2011 3:18:03 AM

Communication System: CDMA AWS; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.36$  mho/m;  $\epsilon_r = 39.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Left Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(8.22, 8.22, 8.22); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Cheek Middle/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.720 mW/g

**Cheek Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.83 V/m; Power Drift = 0.017 dB

Peak SAR (extrapolated) = 0.880 W/kg

**SAR(1 g) = 0.629 mW/g; SAR(10 g) = 0.388 mW/g**

Maximum value of SAR (measured) = 0.650 mW/g

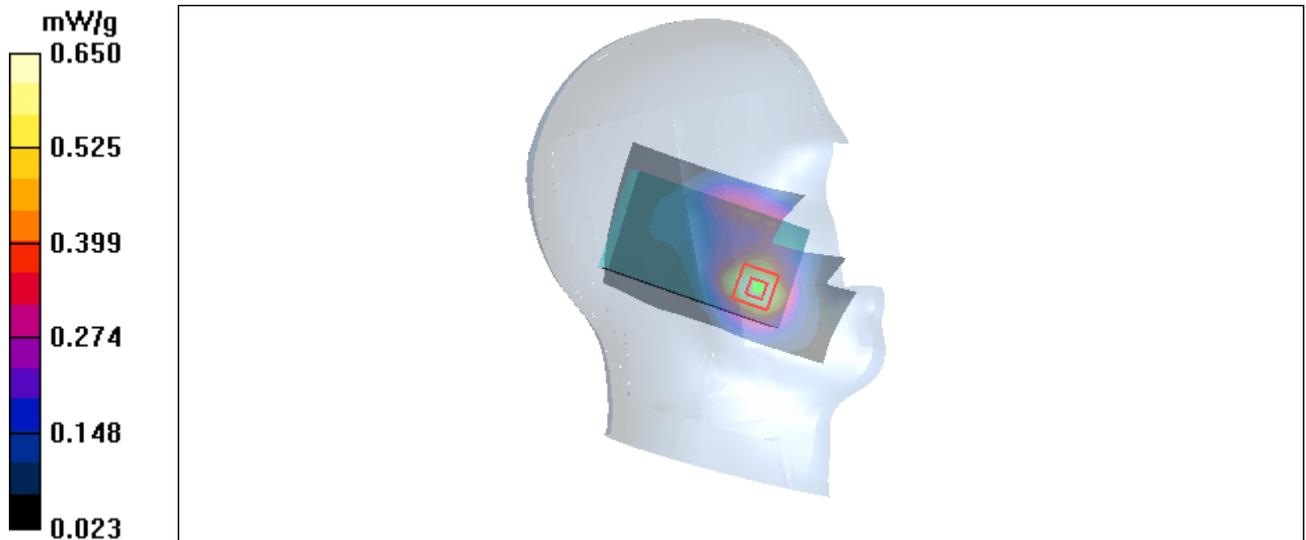


Figure 64 CDMA AWS Left Hand Touch Cheek Channel 450

### CDMA AWS Left Cheek Low

Date/Time: 4/29/2011 3:43:51 AM

Communication System: CDMA AWS; Frequency: 1711.25 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1712$  MHz;  $\sigma = 1.35$  mho/m;  $\epsilon_r = 39.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Left Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(8.22, 8.22, 8.22); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Cheek Low/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.640 mW/g

**Cheek Low/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.70 V/m; Power Drift = -0.089 dB

Peak SAR (extrapolated) = 0.773 W/kg

**SAR(1 g) = 0.563 mW/g; SAR(10 g) = 0.351 mW/g**

Maximum value of SAR (measured) = 0.569 mW/g

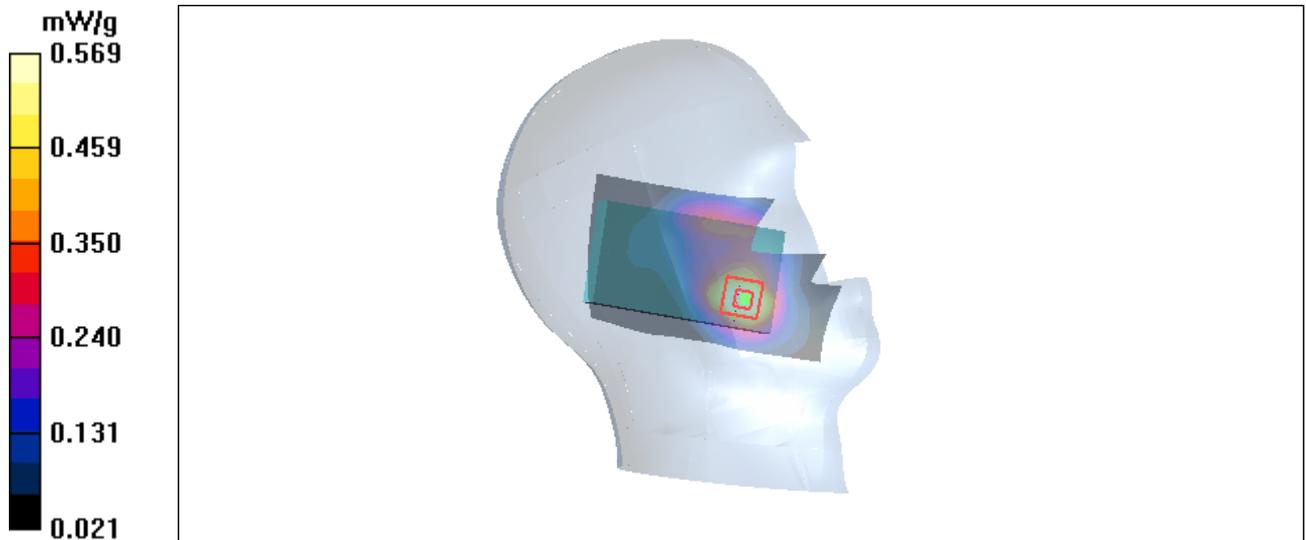


Figure 65 CDMA AWS Left Hand Touch Cheek Channel 25

### CDMA AWS Left Tilt Middle

Date/Time: 4/29/2011 3:57:34 AM

Communication System: CDMA AWS; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.36$  mho/m;  $\epsilon_r = 39.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Left Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(8.22, 8.22, 8.22); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Tilt Middle/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.297 mW/g

**Tilt Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.2 V/m; Power Drift = 0.033 dB

Peak SAR (extrapolated) = 0.347 W/kg

**SAR(1 g) = 0.257 mW/g; SAR(10 g) = 0.165 mW/g**

Maximum value of SAR (measured) = 0.269 mW/g

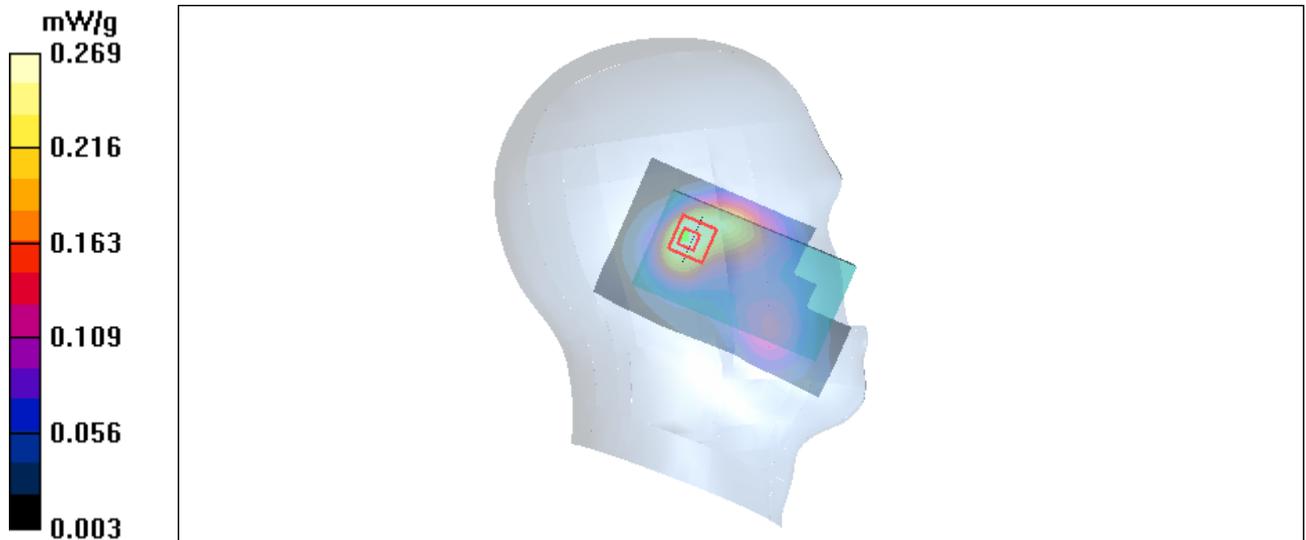


Figure 66 CDMA AWS Left Hand Tilt 15° Channel 450

### CDMA AWS Right Cheek Middle

Date/Time: 4/29/2011 2:50:29 AM

Communication System: CDMA AWS; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.36$  mho/m;  $\epsilon_r = 39.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5°C

Phantom section: Right Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(8.22, 8.22, 8.22); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Cheek Middle/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.675 mW/g

**Cheek Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.34 V/m; Power Drift = -0.054 dB

Peak SAR (extrapolated) = 0.813 W/kg

**SAR(1 g) = 0.617 mW/g; SAR(10 g) = 0.394 mW/g**

Maximum value of SAR (measured) = 0.652 mW/g

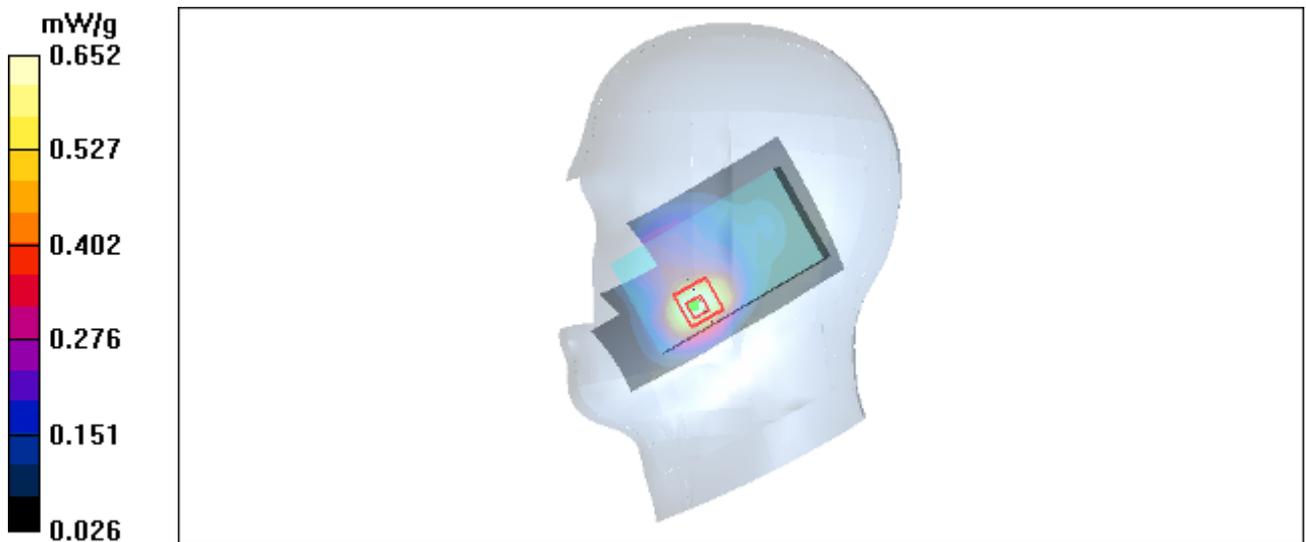


Figure 67 CDMA AWS Right Hand Touch Cheek Channel 450

### CDMA AWS Right Tilt Middle

Date/Time: 4/29/2011 3:03:20 AM

Communication System: CDMA AWS; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.36$  mho/m;  $\epsilon_r = 39.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5°C

Phantom section: Right Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(8.22, 8.22, 8.22); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Tilt Middle/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.305 mW/g

**Tilt Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.1 V/m; Power Drift = -0.007 dB

Peak SAR (extrapolated) = 0.358 W/kg

**SAR(1 g) = 0.272 mW/g; SAR(10 g) = 0.170 mW/g**

Maximum value of SAR (measured) = 0.277 mW/g

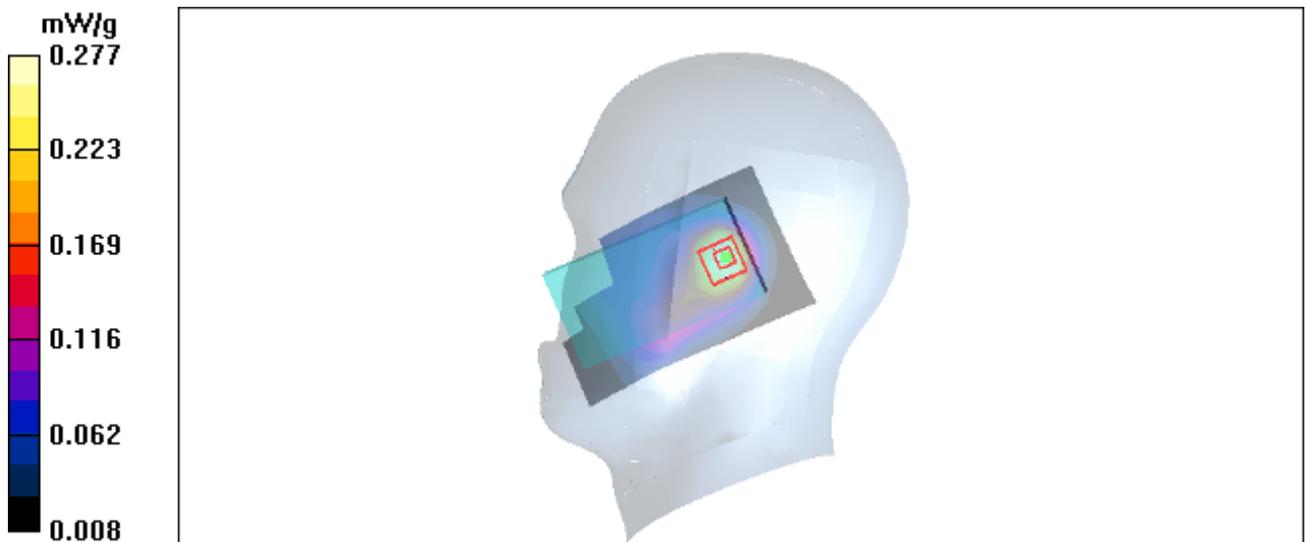


Figure 68 CDMA AWS Right Hand Tilt 15° Channel 450

### CDMA AWS Towards Ground Middle

Date/Time: 4/29/2011 10:07:52 PM

Communication System: CDMA AWS; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.46$  mho/m;  $\epsilon_r = 52.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(8.02, 8.02, 8.02); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Ground Middle/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.524 mW/g

**Towards Ground Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.4 V/m; Power Drift = -0.136 dB

Peak SAR (extrapolated) = 0.776 W/kg

**SAR(1 g) = 0.474 mW/g; SAR(10 g) = 0.294 mW/g**

Maximum value of SAR (measured) = 0.507 mW/g

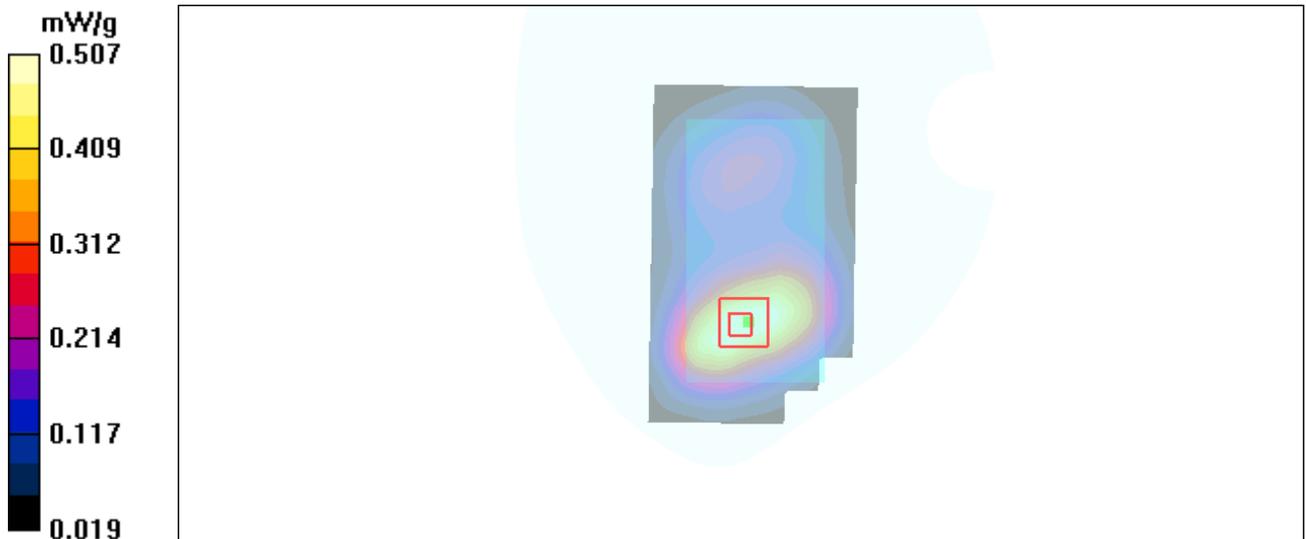


Figure 69 Body, CDMA AWS Towards Ground Channel 450

### CDMA AWS Towards Phantom High

Date/Time: 4/29/2011 10:45:55 PM

Communication System: CDMA AWS; Frequency: 1752.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1752.5$  MHz;  $\sigma = 1.48$  mho/m;  $\epsilon_r = 52.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(8.02, 8.02, 8.02); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Phantom High/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.757 mW/g

**Towards Phantom High/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm,

dz=5mm

Reference Value = 12.8 V/m; Power Drift = -0.151 dB

Peak SAR (extrapolated) = 1.07 W/kg

**SAR(1 g) = 0.690 mW/g; SAR(10 g) = 0.436 mW/g**

Maximum value of SAR (measured) = 0.717 mW/g

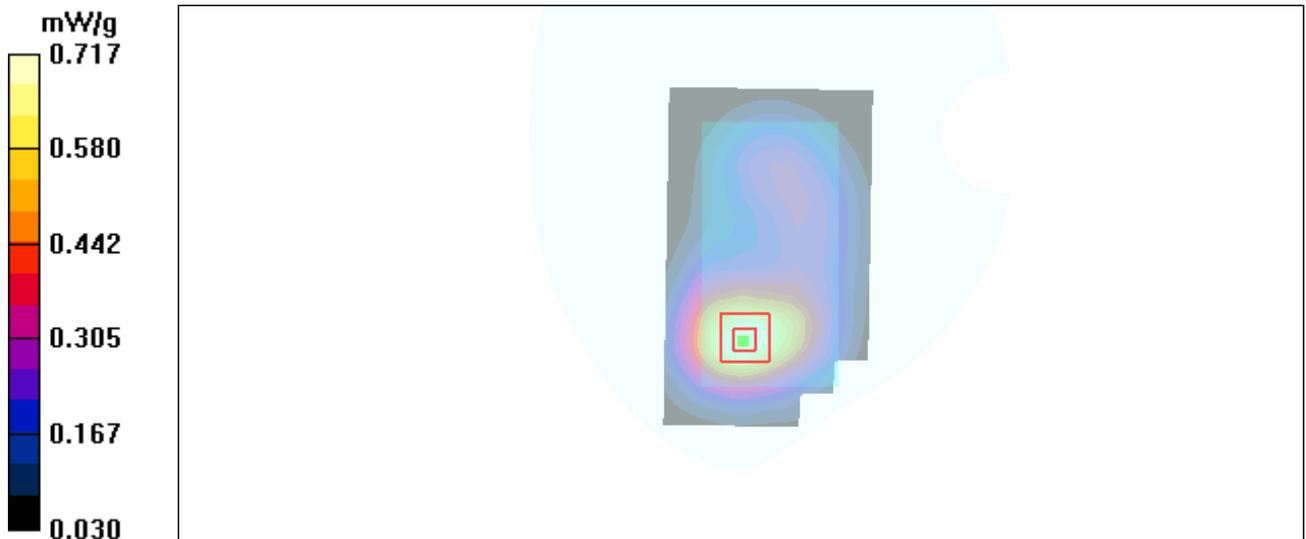


Figure 70 Body, CDMA AWS Towards Phantom Channel 850

### CDMA AWS Towards Phantom Middle

Date/Time: 4/29/2011 10:21:05 PM

Communication System: CDMA AWS; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.46$  mho/m;  $\epsilon_r = 52.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(8.02, 8.02, 8.02); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Phantom Middle/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.621 mW/g

**Towards Phantom Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.5 V/m; Power Drift = -0.147 dB

Peak SAR (extrapolated) = 0.834 W/kg

**SAR(1 g) = 0.546 mW/g; SAR(10 g) = 0.347 mW/g**

Maximum value of SAR (measured) = 0.559 mW/g

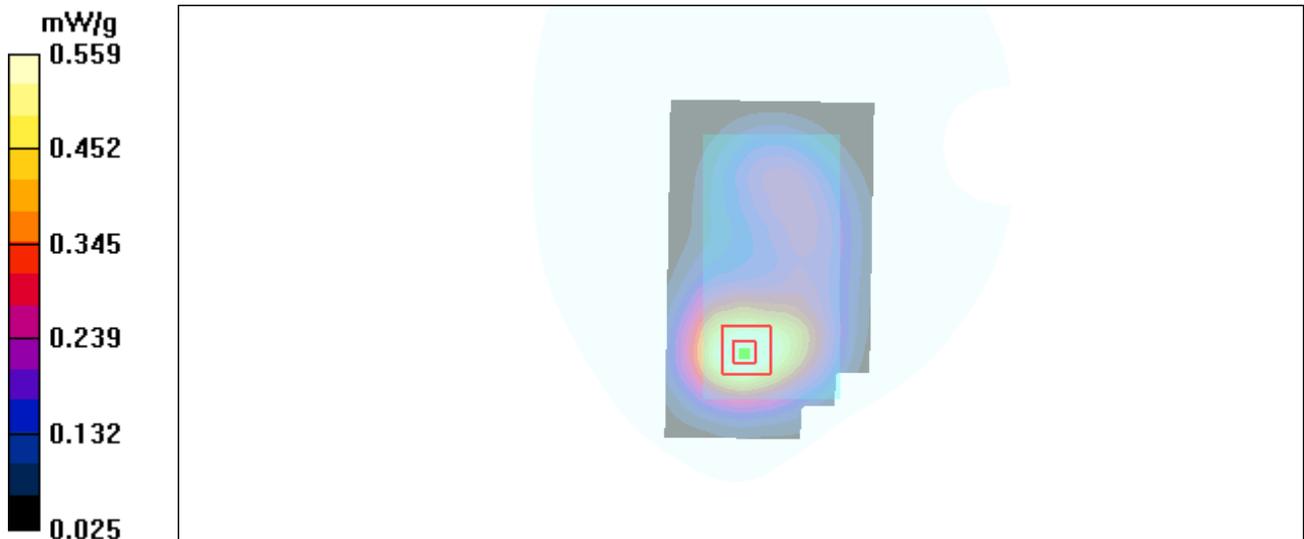


Figure 71 Body, CDMA AWS Towards Phantom Channel 450

### CDMA AWS Towards Phantom Low

Date/Time: 4/29/2011 10:33:09 PM

Communication System: CDMA AWS; Frequency: 1711.25 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1712$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 52.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(8.02, 8.02, 8.02); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Phantom Low/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.519 mW/g

**Towards Phantom Low/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.9 V/m; Power Drift = -0.091 dB

Peak SAR (extrapolated) = 0.673 W/kg

**SAR(1 g) = 0.449 mW/g; SAR(10 g) = 0.286 mW/g**

Maximum value of SAR (measured) = 0.462 mW/g

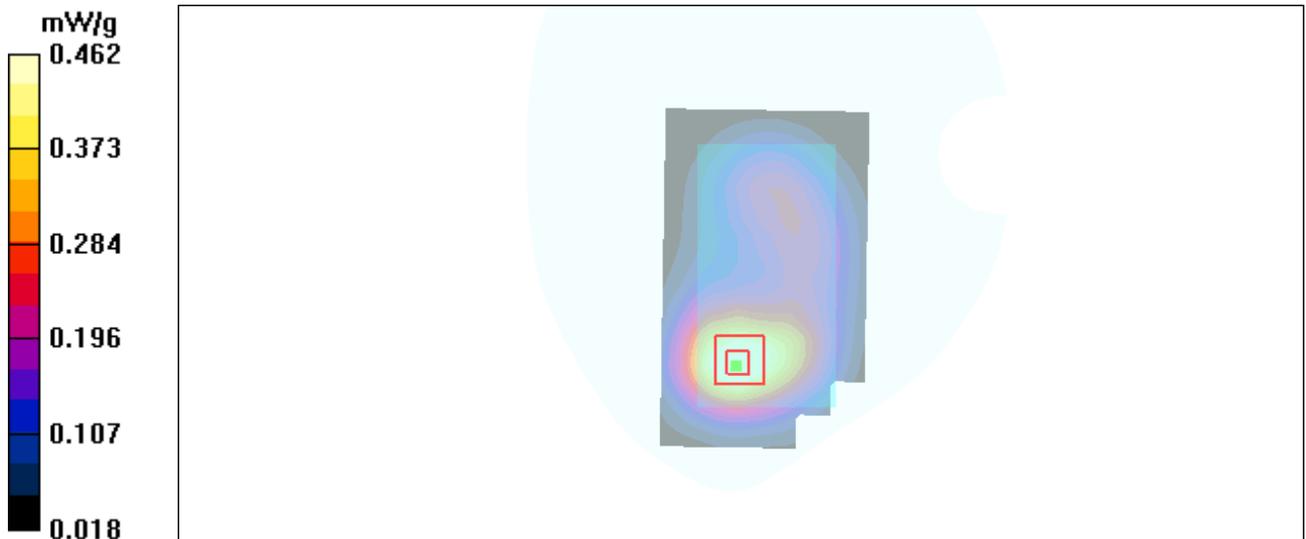


Figure 72 Body, CDMA AWS Towards Phantom Channel 25

### CDMA AWS with EVDO Rev.0 Towards Phantom High

Date/Time: 4/29/2011 11:14:05 PM

Communication System: CDMA AWS EVDO REV.0; Frequency: 1752.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1752.5$  MHz;  $\sigma = 1.48$  mho/m;  $\epsilon_r = 52.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(8.02, 8.02, 8.02); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Phantom High/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.729 mW/g

**Towards Phantom High/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.4 V/m; Power Drift = 0.182 dB

Peak SAR (extrapolated) = 0.930 W/kg

**SAR(1 g) = 0.634 mW/g; SAR(10 g) = 0.401 mW/g**

Maximum value of SAR (measured) = 0.699 mW/g

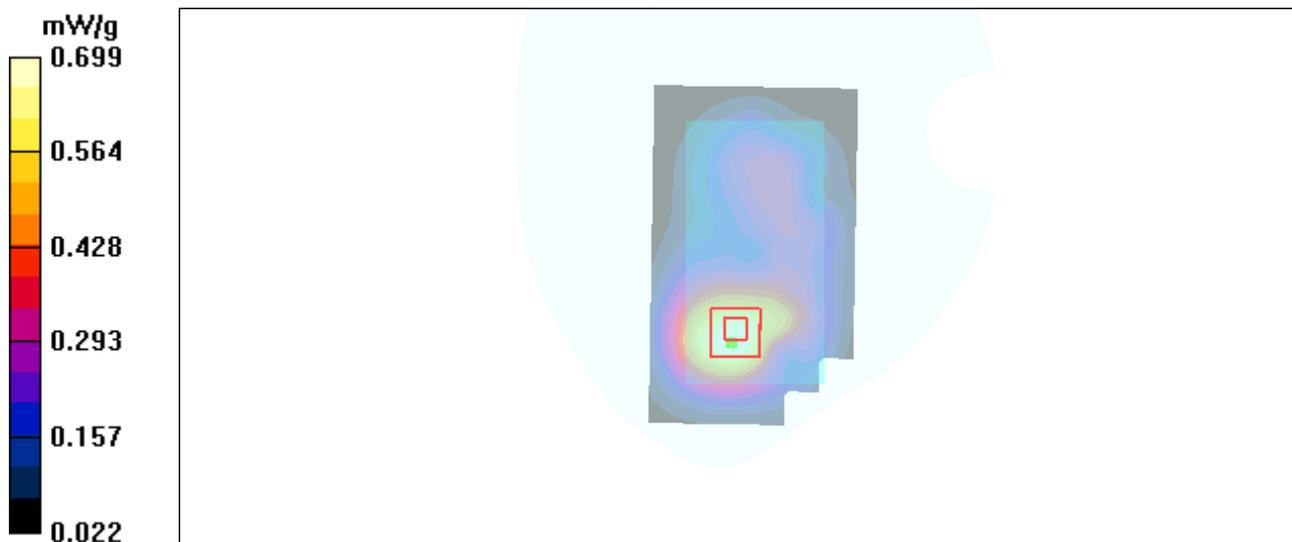


Figure 73 Body, CDMA AWS with EVDO Rev.0 Towards Phantom Channel 850

### CDMA AWS with EVDO Rev.A Towards Phantom High

Date/Time: 4/29/2011 11:28:08 PM

Communication System: CDMA AWS EVDO REV.A; Frequency: 1752.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1752.5$  MHz;  $\sigma = 1.48$  mho/m;  $\epsilon_r = 52.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(8.02, 8.02, 8.02); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Phantom High/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.767 mW/g

**Towards Phantom High/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm,

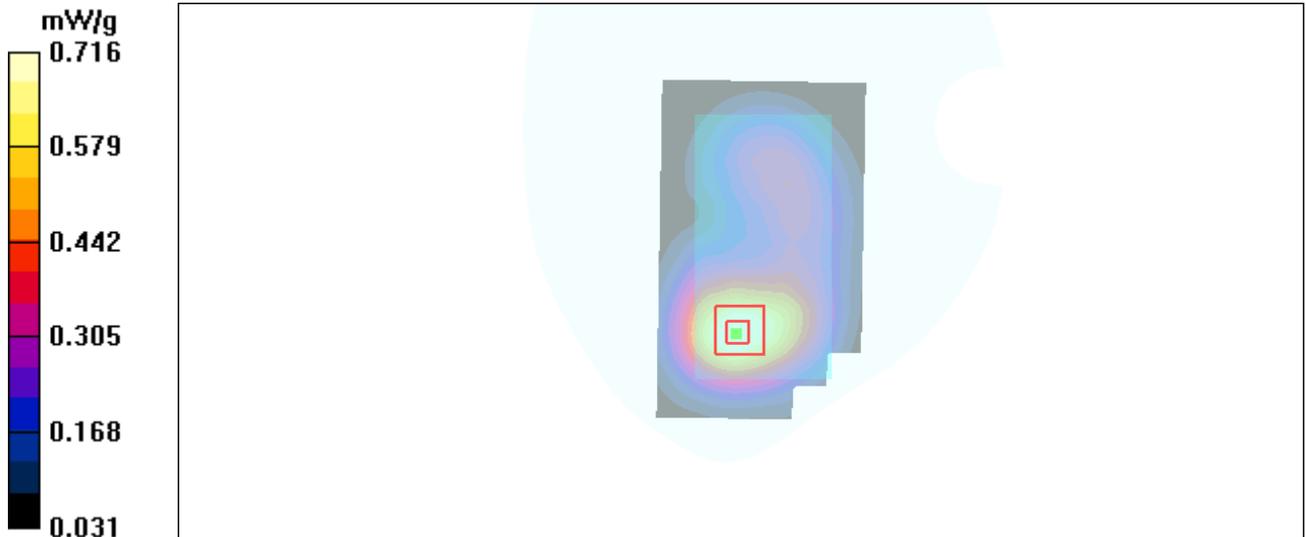
dz=5mm

Reference Value = 13.0 V/m; Power Drift = -0.118 dB

Peak SAR (extrapolated) = 1.06 W/kg

**SAR(1 g) = 0.692 mW/g; SAR(10 g) = 0.440 mW/g**

Maximum value of SAR (measured) = 0.716 mW/g



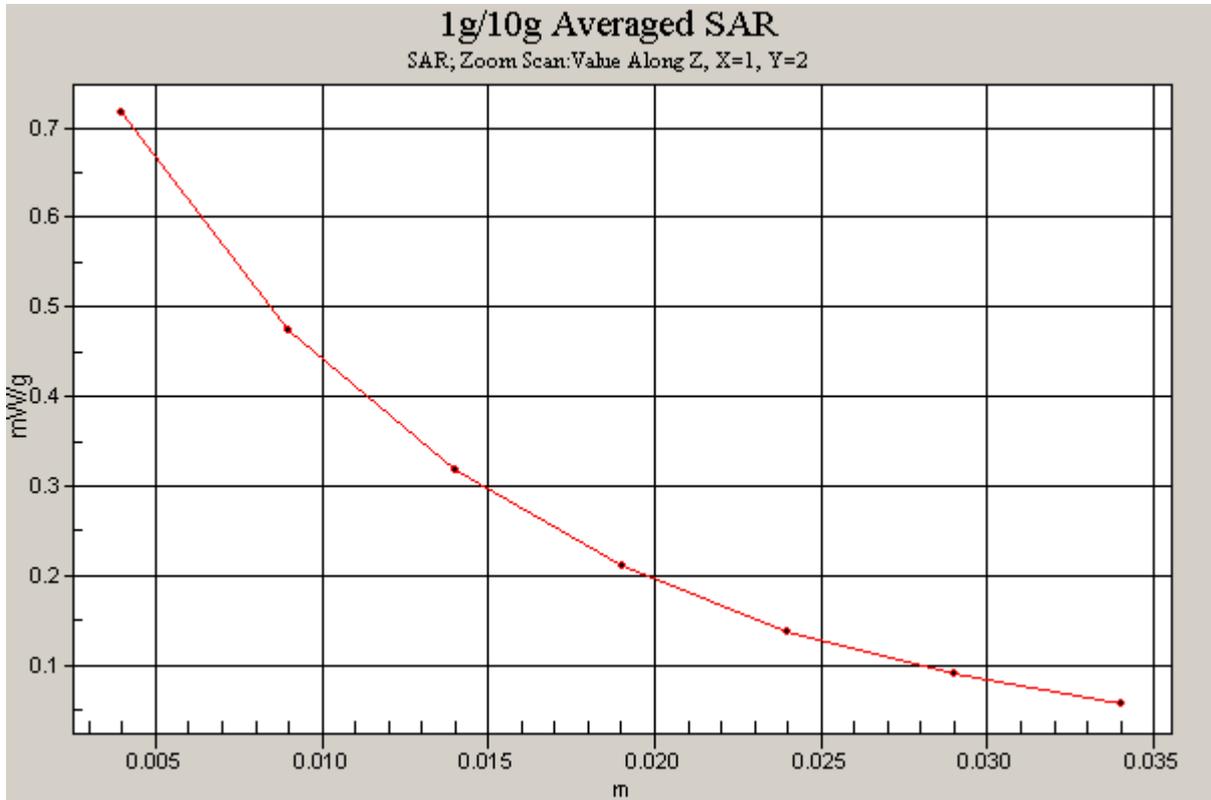


Figure 74 Body, CDMA AWS with EVDO Rev.A Towards Phantom Channel 850

### CDMA AWS with Earphone Towards Phantom High

Date/Time: 4/29/2011 10:59:21 PM

Communication System: CDMA AWS; Frequency: 1752.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1752.5$  MHz;  $\sigma = 1.48$  mho/m;  $\epsilon_r = 52.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(8.02, 8.02, 8.02); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Phantom High/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.698 mW/g

**Towards Phantom High/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm,

dz=5mm

Reference Value = 12.2 V/m; Power Drift = 0.012 dB

Peak SAR (extrapolated) = 1.03 W/kg

**SAR(1 g) = 0.658 mW/g; SAR(10 g) = 0.415 mW/g**

Maximum value of SAR (measured) = 0.694 mW/g

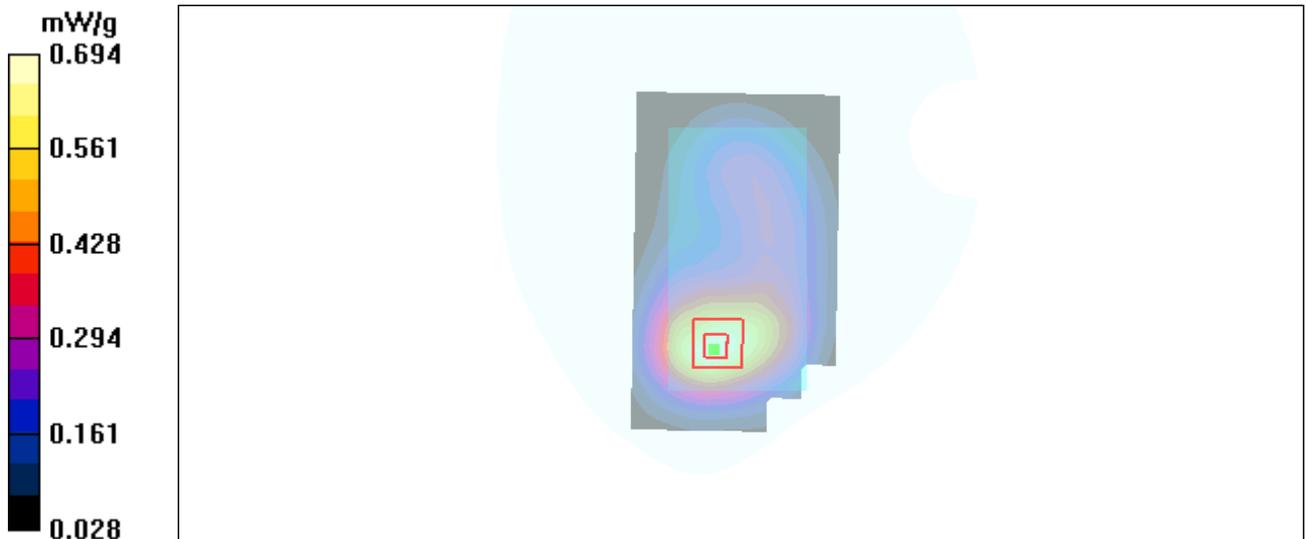


Figure 75 Body, CDMA AWS with Earphone Towards Phantom Channel 850

### CDMA AWS with EVDO Rev.0 (Hot spots) Towards Ground Middle

Date/Time: 4/29/2011 11:47:37 PM

Communication System: CDMA AWS EVDO REV.0; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.46$  mho/m;  $\epsilon_r = 52.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(8.02, 8.02, 8.02); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Ground Middle/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.720 mW/g

**Towards Ground Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm,

dz=5mm

Reference Value = 13.2 V/m; Power Drift = -0.040 dB

Peak SAR (extrapolated) = 1.09 W/kg

**SAR(1 g) = 0.655 mW/g; SAR(10 g) = 0.405 mW/g**

Maximum value of SAR (measured) = 0.711 mW/g

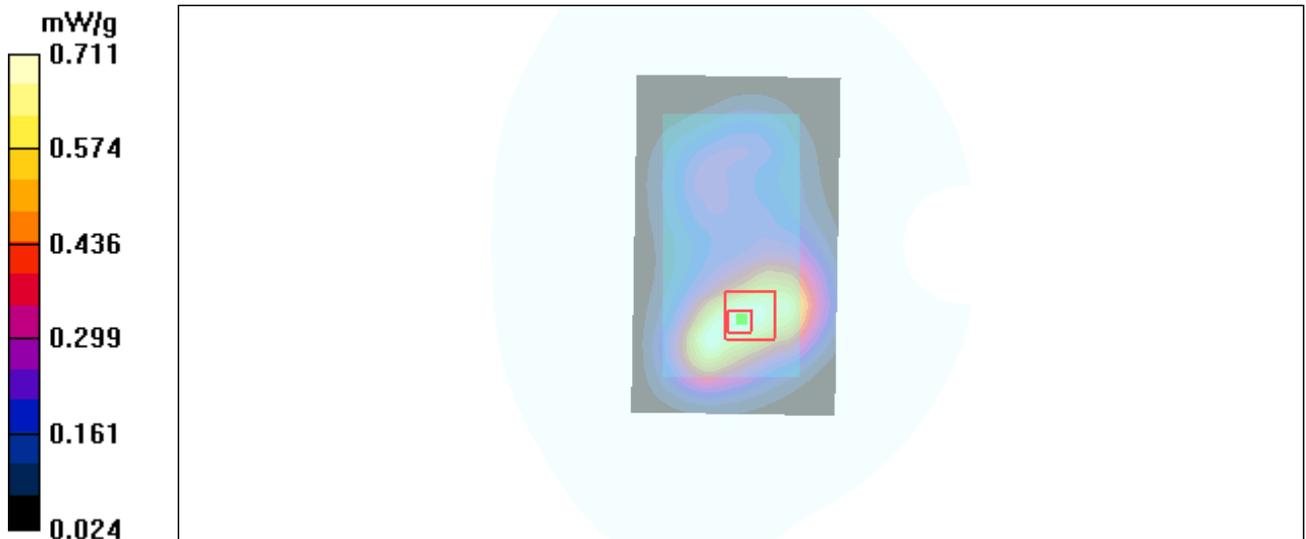


Figure 76 Body, Towards Ground, CDMA AWS with EVDO Rev.0 Channel 450

### CDMA AWS with EVDO Rev.0 (Hot spots) Towards Phantom High

Date/Time: 4/30/2011 1:22:23 AM

Communication System: CDMA AWS EVDO REV.0; Frequency: 1752.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1752.5$  MHz;  $\sigma = 1.48$  mho/m;  $\epsilon_r = 52.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(8.02, 8.02, 8.02); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Phantom High/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.07 mW/g

**Towards Phantom High/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.5 V/m; Power Drift = -0.072 dB

Peak SAR (extrapolated) = 1.46 W/kg

**SAR(1 g) = 0.938 mW/g; SAR(10 g) = 0.572 mW/g**

Maximum value of SAR (measured) = 0.988 mW/g

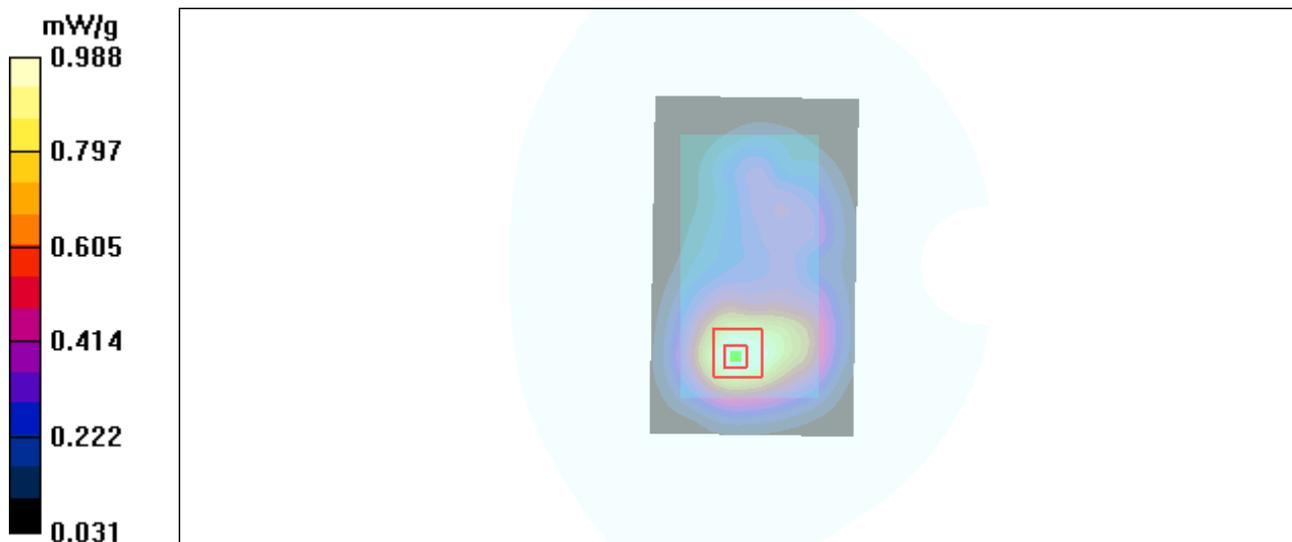


Figure 77 Body, Towards Phantom, CDMA AWS with EVDO Rev.0 Channel 850

**CDMA AWS with EVDO Rev.0 (Hot spots) Towards Phantom Middle**

Date/Time: 4/30/2011 12:54:55 AM

Communication System: CDMA AWS EVDO REV.0; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.46$  mho/m;  $\epsilon_r = 52.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(8.02, 8.02, 8.02); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Phantom Middle/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.838 mW/g

**Towards Phantom Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm,

dz=5mm

Reference Value = 13.6 V/m; Power Drift = -0.102 dB

Peak SAR (extrapolated) = 1.15 W/kg

**SAR(1 g) = 0.748 mW/g; SAR(10 g) = 0.472 mW/g**

Maximum value of SAR (measured) = 0.769 mW/g

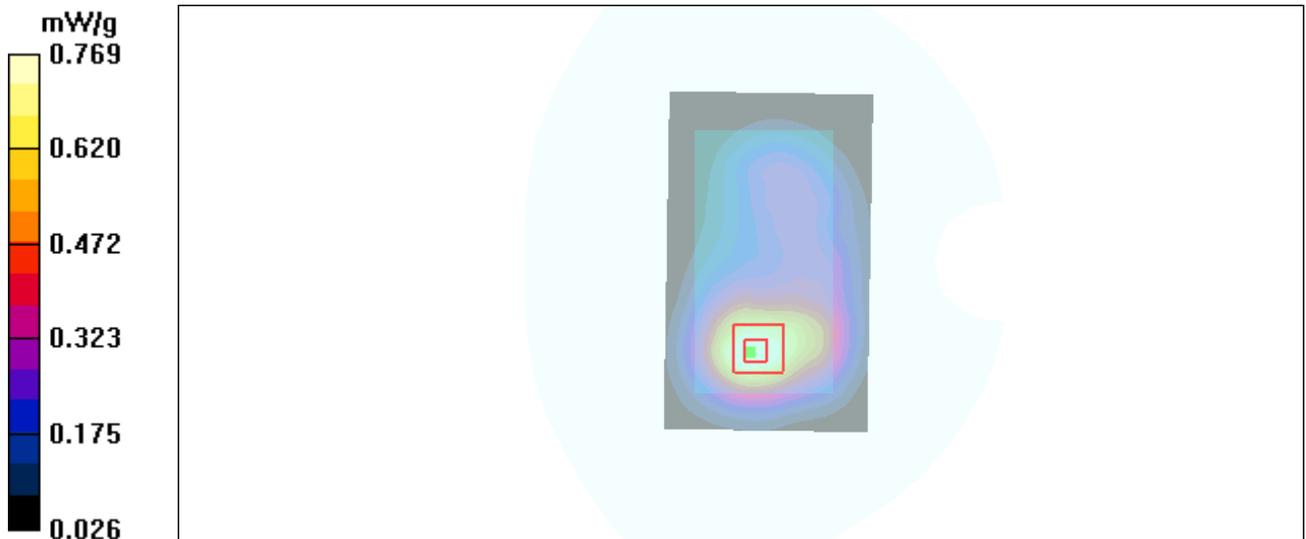


Figure 78 Body, Towards Phantom, CDMA AWS with EVDO Rev.0 Channel 450

### CDMA AWS with EVDO Rev.0 (Hot spots) Towards Phantom Low

Date/Time: 4/30/2011 1:47:26 AM

Communication System: CDMA AWS EVDO REV.0; Frequency: 1711.25 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1712$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 52.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(8.02, 8.02, 8.02); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Phantom Low/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.749 mW/g

**Towards Phantom Low/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.5 V/m; Power Drift = -0.080 dB

Peak SAR (extrapolated) = 0.987 W/kg

**SAR(1 g) = 0.674 mW/g; SAR(10 g) = 0.425 mW/g**

Maximum value of SAR (measured) = 0.699 mW/g

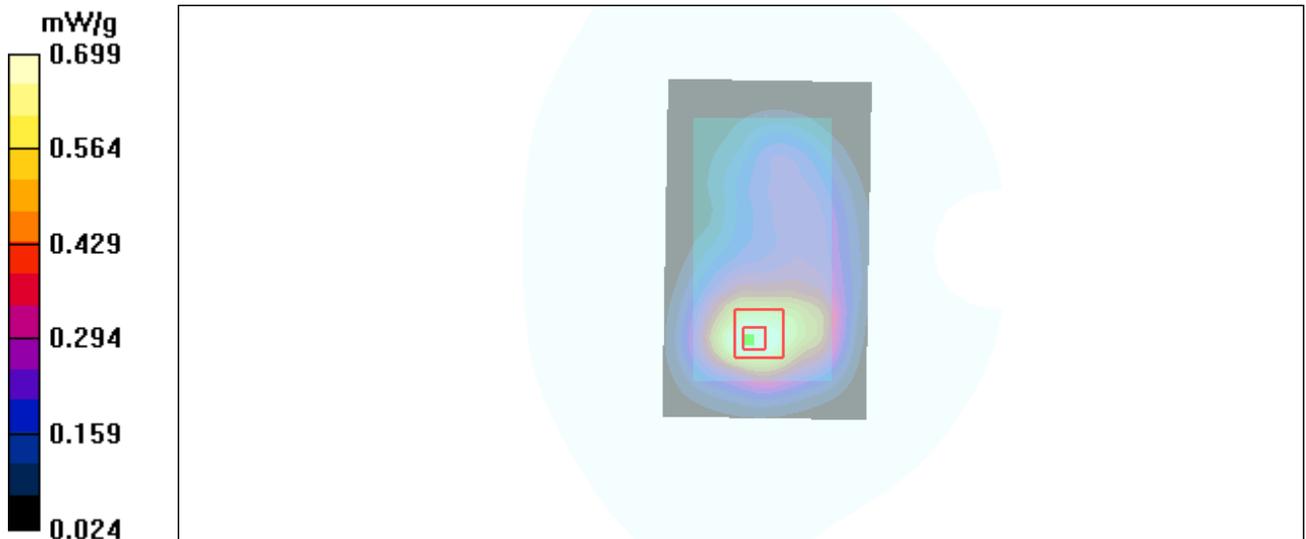


Figure 79 Body, Towards Phantom, CDMA AWS with EVDO Rev.0 Channel 25

**CDMA AWS with EVDO Rev.0 (Hot spots) Left Edge Middle**

Date/Time: 4/30/2011 12:11:36 AM

Communication System: CDMA AWS EVDO REV.0; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.46$  mho/m;  $\epsilon_r = 52.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(8.02, 8.02, 8.02); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Left Edge Middle/Area Scan (41x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.295 mW/g

**Left Edge Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.7 V/m; Power Drift = -0.112 dB

Peak SAR (extrapolated) = 0.419 W/kg

**SAR(1 g) = 0.260 mW/g; SAR(10 g) = 0.156 mW/g**

Maximum value of SAR (measured) = 0.259 mW/g

**Left Edge Middle/Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.7 V/m; Power Drift = -0.112 dB

Peak SAR (extrapolated) = 0.312 W/kg

**SAR(1 g) = 0.206 mW/g; SAR(10 g) = 0.131 mW/g**

Maximum value of SAR (measured) = 0.208 mW/g

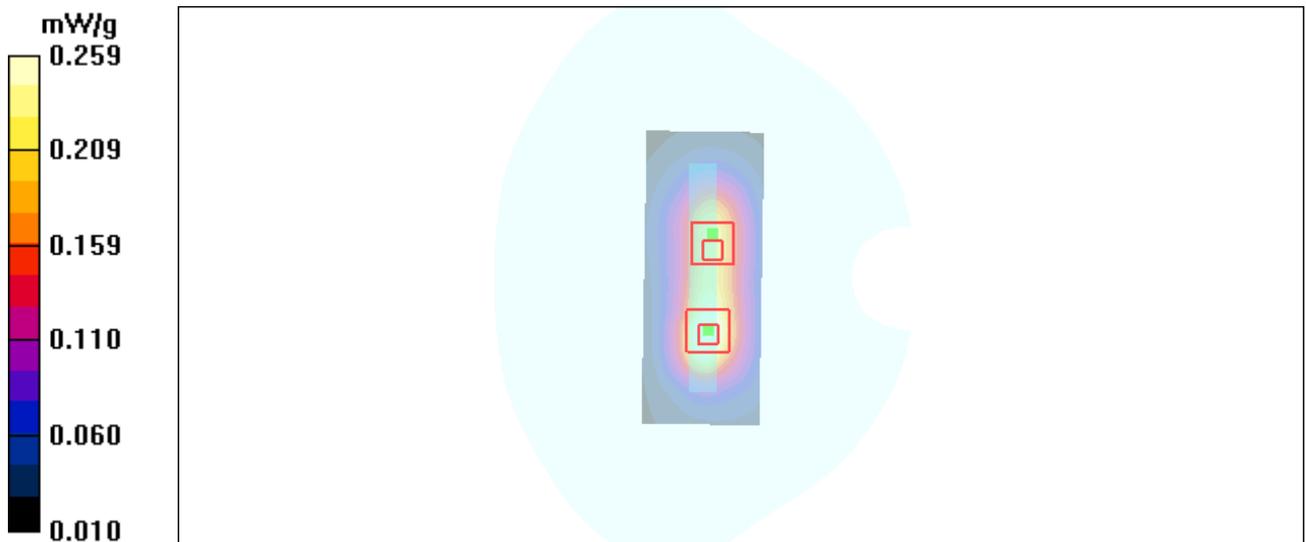


Figure 80 Body, Left Edge, CDMA AWS with EVDO Rev.0 Channel 450

### CDMA AWS with EVDO Rev.0 (Hot spots) Right Edge Middle

Date/Time: 4/30/2011 12:28:24 AM

Communication System: CDMA AWS EVDO REV.0; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.46$  mho/m;  $\epsilon_r = 52.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(8.02, 8.02, 8.02); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Right Edge Middle/Area Scan (41x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.198 mW/g

**Right Edge Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.1 V/m; Power Drift = -0.172 dB

Peak SAR (extrapolated) = 0.269 W/kg

**SAR(1 g) = 0.175 mW/g; SAR(10 g) = 0.109 mW/g**

Maximum value of SAR (measured) = 0.179 mW/g

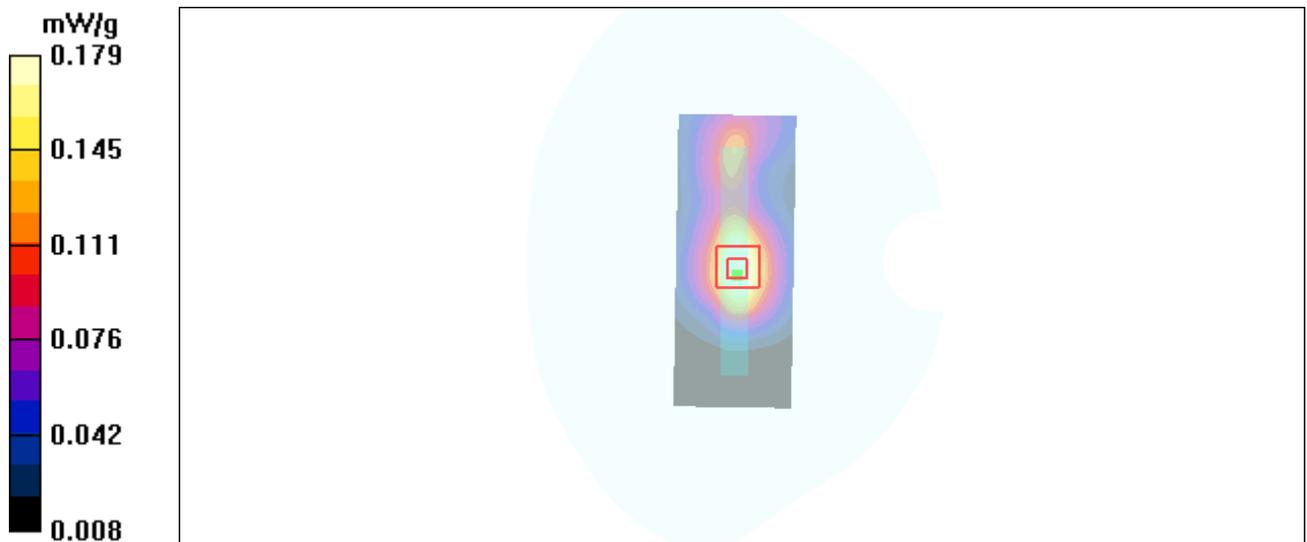


Figure 81 Body, Right Edge, CDMA AWS with EVDO Rev.0 Channel 450

**CDMA AWS with EVDO Rev.0 (Hot spots) Bottom Edge Middle**

Date/Time: 4/30/2011 12:43:01 AM

Communication System: CDMA AWS EVDO REV.0; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.46$  mho/m;  $\epsilon_r = 52.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(8.02, 8.02, 8.02); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Bottom Edge Middle/Area Scan (41x71x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.628 mW/g

**Bottom Edge Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 21.4 V/m; Power Drift = 0.015 dB

Peak SAR (extrapolated) = 0.897 W/kg

**SAR(1 g) = 0.555 mW/g; SAR(10 g) = 0.329 mW/g**

Maximum value of SAR (measured) = 0.560 mW/g

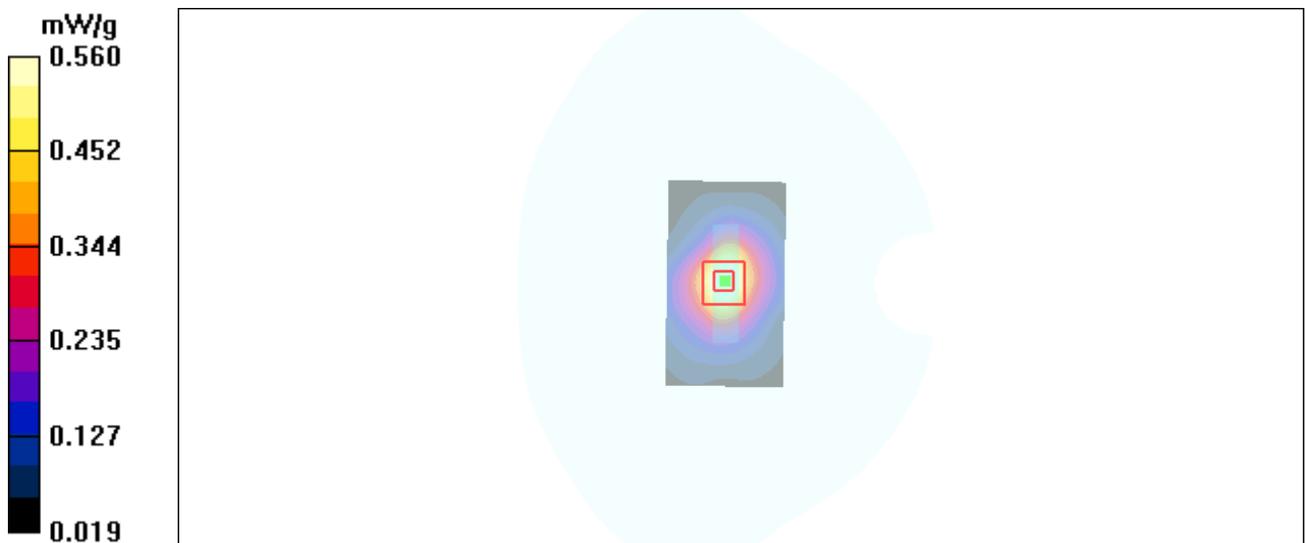


Figure 82 Body, Bottom Edge, CDMA AWS with EVDO Rev.0 Channel 450

### CDMA AWS with 1XRTT (hot spots) Towards Phantom High

Date/Time: 4/30/2011 2:36:54 AM

Communication System: CDMA AWS 1XRTT; Frequency: 1752.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1752.5$  MHz;  $\sigma = 1.48$  mho/m;  $\epsilon_r = 52.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(8.02, 8.02, 8.02); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Phantom High/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.939 mW/g

**Towards Phantom High/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm,

dz=5mm

Reference Value = 14.3 V/m; Power Drift = -0.042 dB

Peak SAR (extrapolated) = 1.29 W/kg

**SAR(1 g) = 0.845 mW/g; SAR(10 g) = 0.536 mW/g**

Maximum value of SAR (measured) = 0.866 mW/g

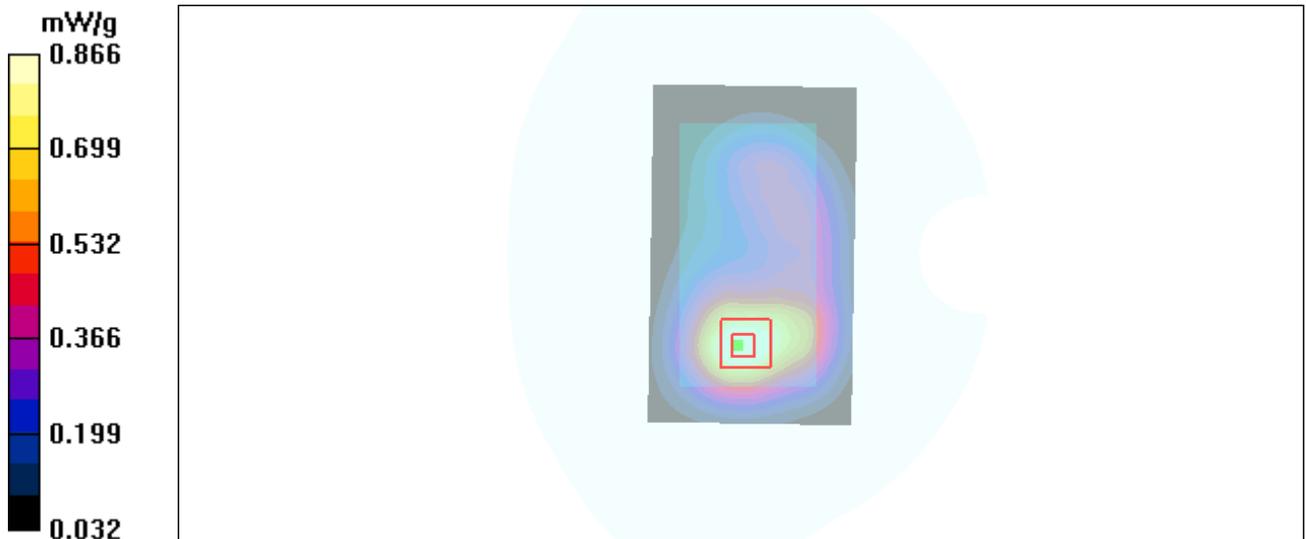


Figure 83 Body, Towards Phantom, CDMA AWS with 1XRTT Channel 850

### CDMA AWS with EVDO Rev.A (hot spots) Towards Phantom High

Date/Time: 4/30/2011 2:14:10 AM

Communication System: CDMA AWS EVDO REV.A; Frequency: 1752.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1752.5$  MHz;  $\sigma = 1.48$  mho/m;  $\epsilon_r = 52.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(8.02, 8.02, 8.02); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Phantom High/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.05 mW/g

**Towards Phantom High/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm,

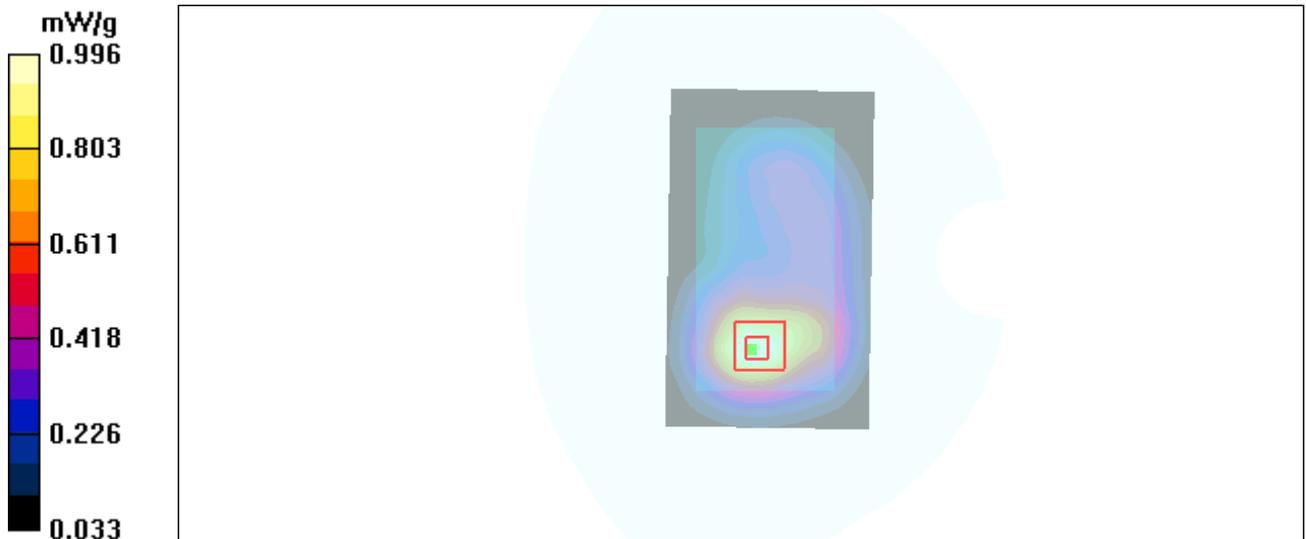
dz=5mm

Reference Value = 15.1 V/m; Power Drift = -0.037 dB

Peak SAR (extrapolated) = 1.49 W/kg

**SAR(1 g) = 0.969 mW/g; SAR(10 g) = 0.607 mW/g**

Maximum value of SAR (measured) = 0.996 mW/g



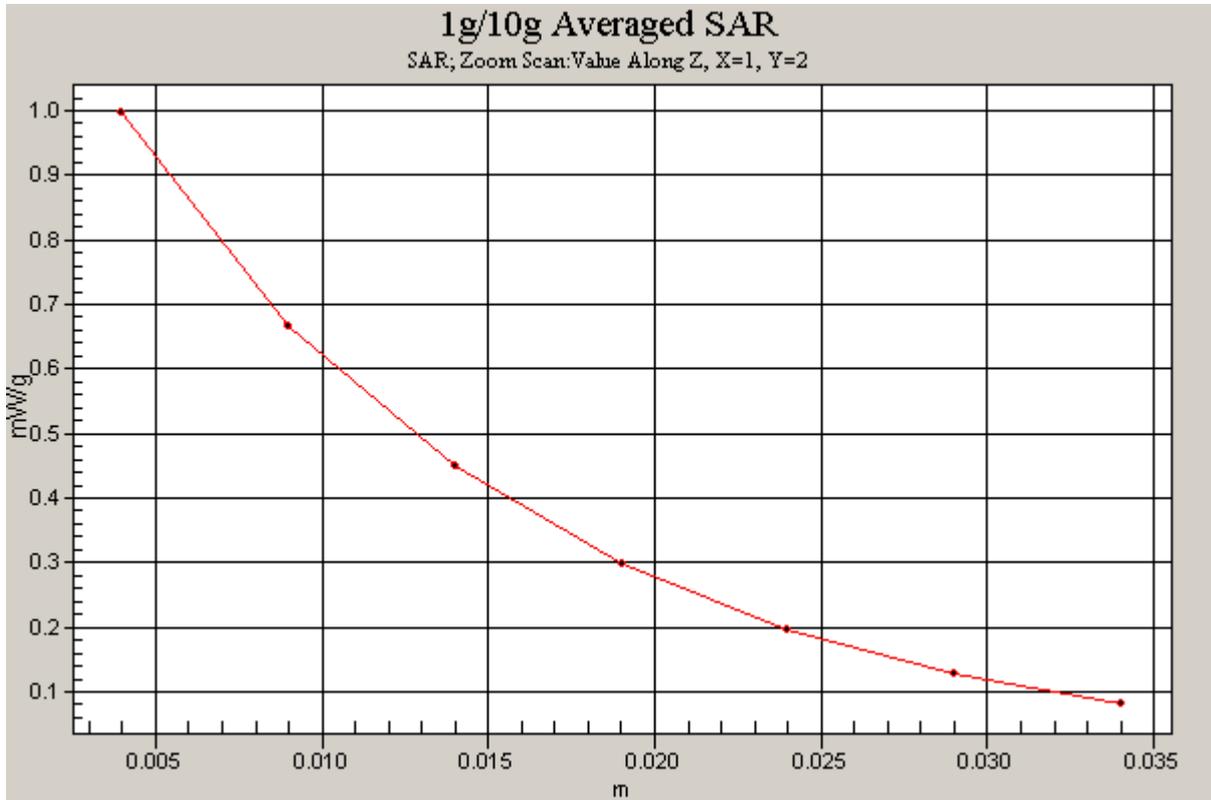


Figure 84 Body, Towards Phantom, CDMA AWS with EVDO Rev.A Channel 850

**802.11b Left Cheek Middle**

Date/Time: 5/3/2011 1:56:52 PM

Communication System: 802.11b; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.8$  mho/m;  $\epsilon_r = 39.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5°C

Phantom section: Left Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(7.32, 7.32, 7.32); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Cheek Middle/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.236 mW/g

**Cheek Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.29 V/m; Power Drift = 0.031 dB

Peak SAR (extrapolated) = 0.498 W/kg

**SAR(1 g) = 0.203 mW/g; SAR(10 g) = 0.094 mW/g**

Maximum value of SAR (measured) = 0.227 mW/g

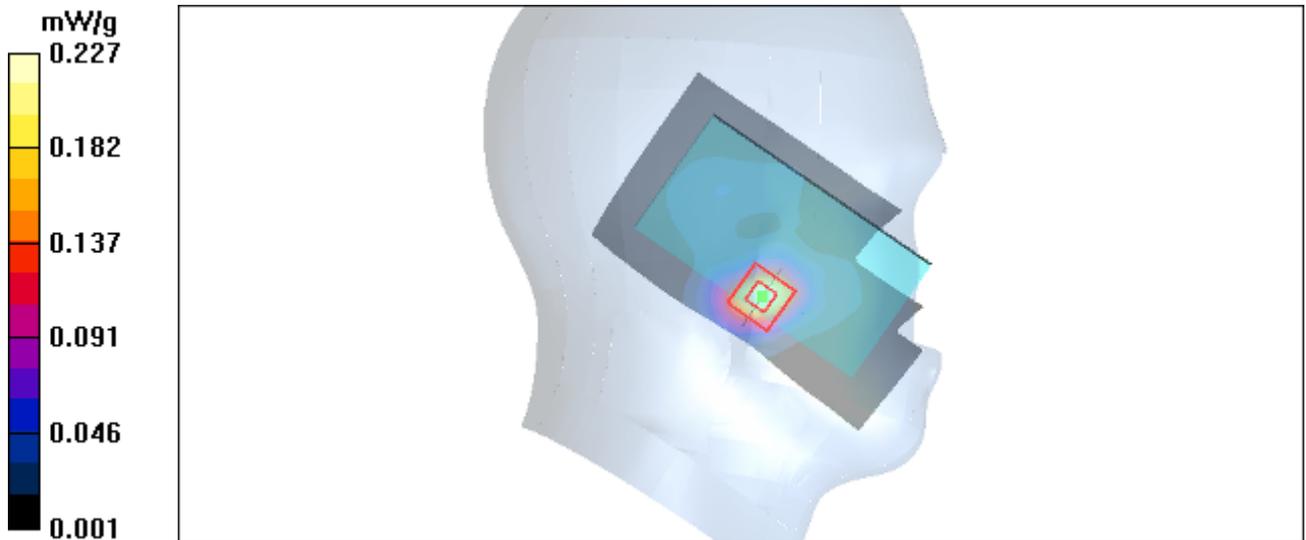


Figure 85 Left Hand Touch Cheek 802.11b Channel 6

### 802.11b Left Tilt Middle

Date/Time: 5/3/2011 2:13:06 PM

Communication System: 802.11b; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.8$  mho/m;  $\epsilon_r = 39.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5°C

Phantom section: Left Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(7.32, 7.32, 7.32); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Tilt Middle/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.062 mW/g

**Tilt Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.00 V/m; Power Drift = -0.047 dB

Peak SAR (extrapolated) = 0.135 W/kg

**SAR(1 g) = 0.063 mW/g; SAR(10 g) = 0.032 mW/g**

Maximum value of SAR (measured) = 0.069 mW/g

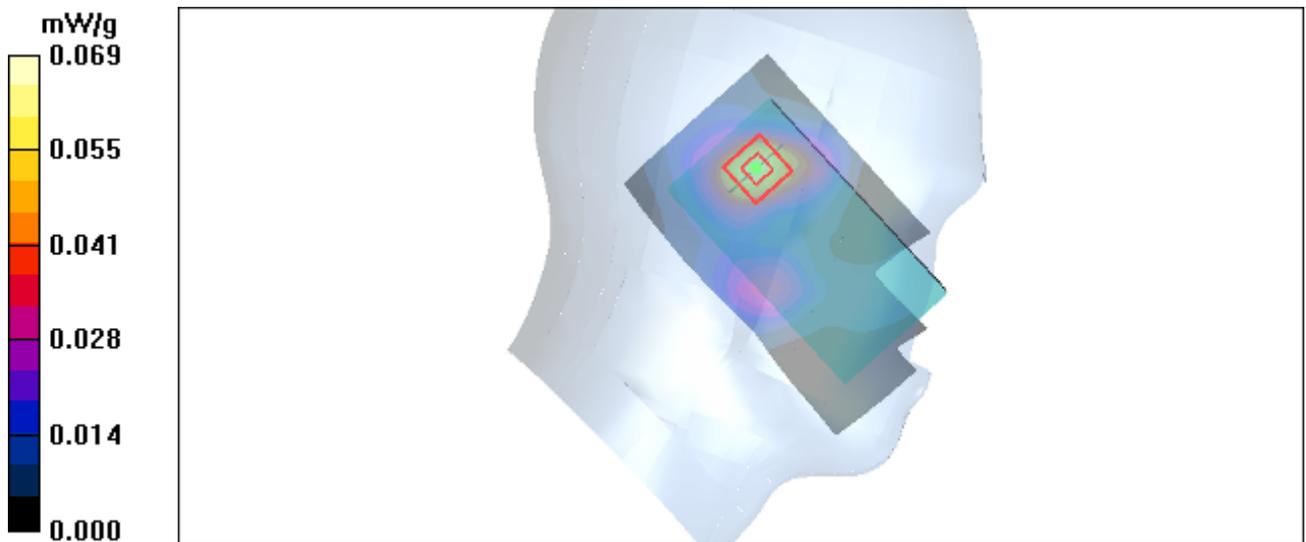


Figure 86 Left Hand Tilt 15° 802.11b Channel 6

### 802.11b Right Cheek High

Date/Time: 5/3/2011 2:33:25 PM

Communication System: 802.11b; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.83$  mho/m;  $\epsilon_r = 39.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5°C

Phantom section: Right Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(7.32, 7.32, 7.32); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Cheek High/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.132 mW/g

**Cheek High/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.60 V/m; Power Drift = -0.045 dB

Peak SAR (extrapolated) = 0.323 W/kg

**SAR(1 g) = 0.124 mW/g; SAR(10 g) = 0.058 mW/g**

Maximum value of SAR (measured) = 0.128 mW/g

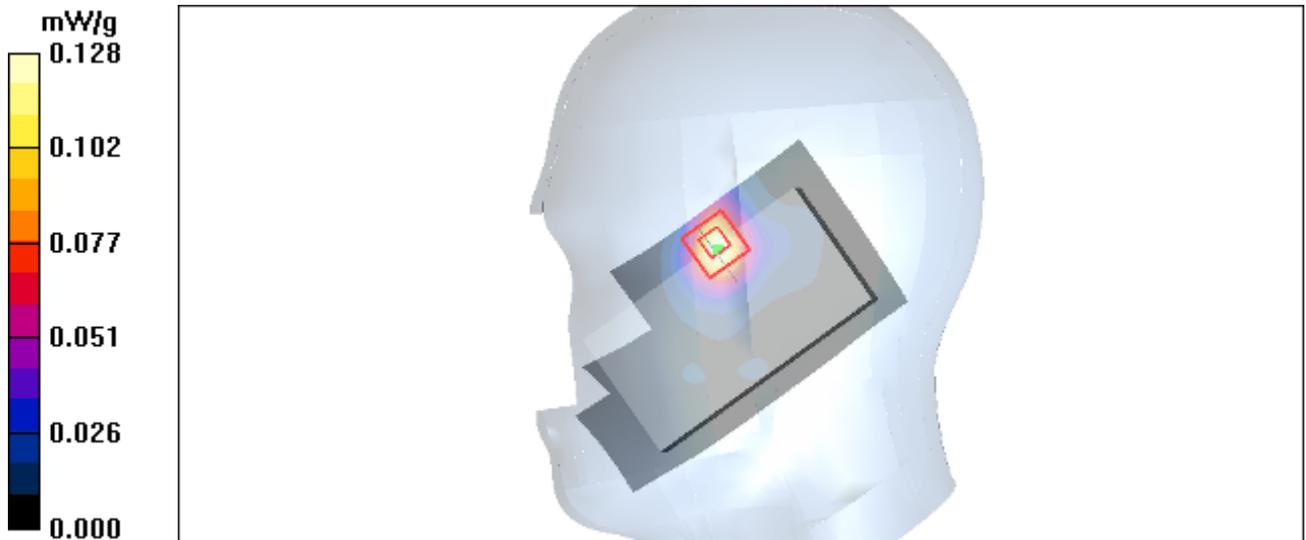


Figure 87 Right Hand Touch Cheek 802.11b Channel 11

### 802.11b Right Cheek Middle

Date/Time: 5/3/2011 1:05:56 PM

Communication System: 802.11b; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.8$  mho/m;  $\epsilon_r = 39.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5°C

Phantom section: Right Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(7.32, 7.32, 7.32); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Cheek Middle/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.239 mW/g

**Cheek Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.32 V/m; Power Drift = -0.163 dB

Peak SAR (extrapolated) = 0.567 W/kg

**SAR(1 g) = 0.230 mW/g; SAR(10 g) = 0.110 mW/g**

Maximum value of SAR (measured) = 0.236 mW/g

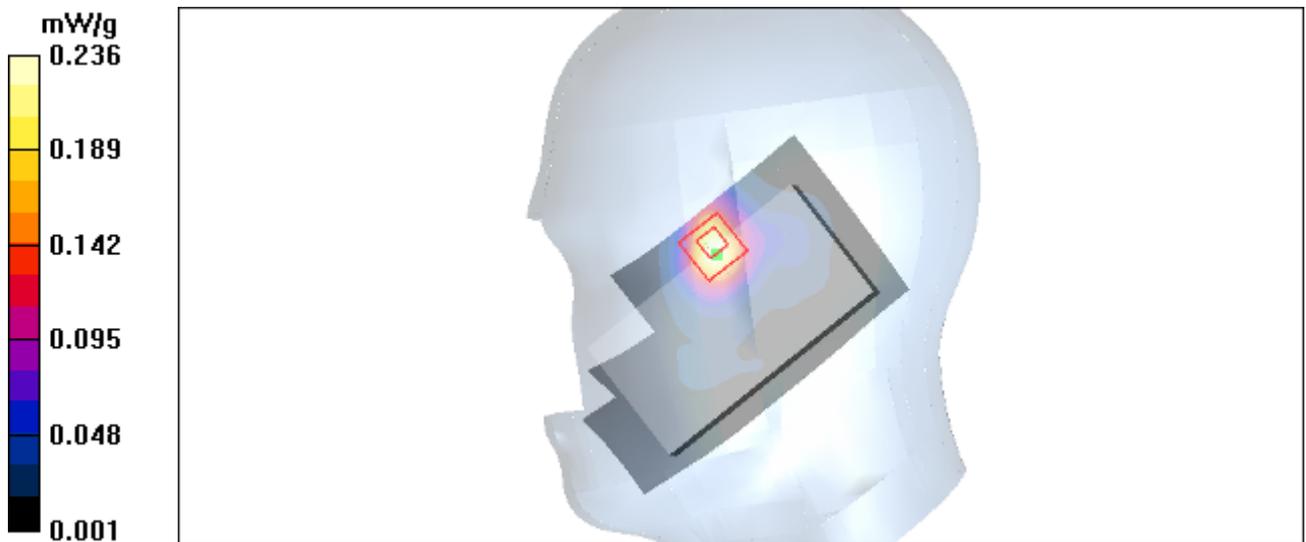


Figure 88 Right Hand Touch Cheek 802.11b Channel 6

### 802.11b Right Cheek Low

Date/Time: 5/3/2011 2:49:29 PM

Communication System: 802.11b; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.77$  mho/m;  $\epsilon_r = 39.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5°C

Phantom section: Right Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(7.32, 7.32, 7.32); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Cheek Low/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.252 mW/g

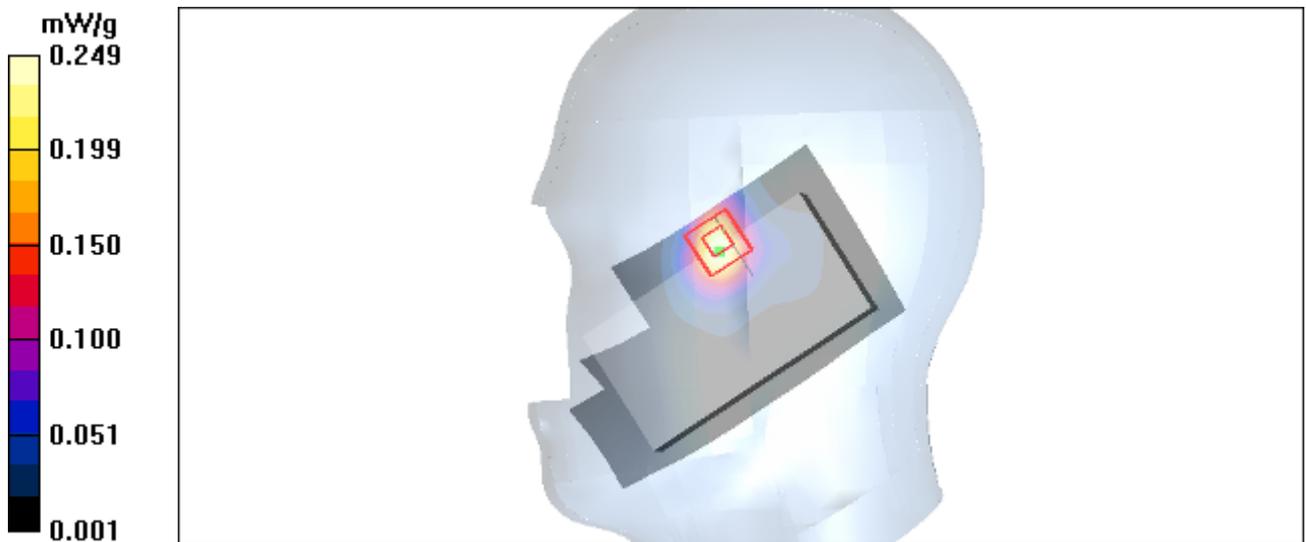
**Cheek Low/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.59 V/m; Power Drift = 0.012 dB

Peak SAR (extrapolated) = 0.619 W/kg

**SAR(1 g) = 0.245 mW/g; SAR(10 g) = 0.115 mW/g**

Maximum value of SAR (measured) = 0.249 mW/g



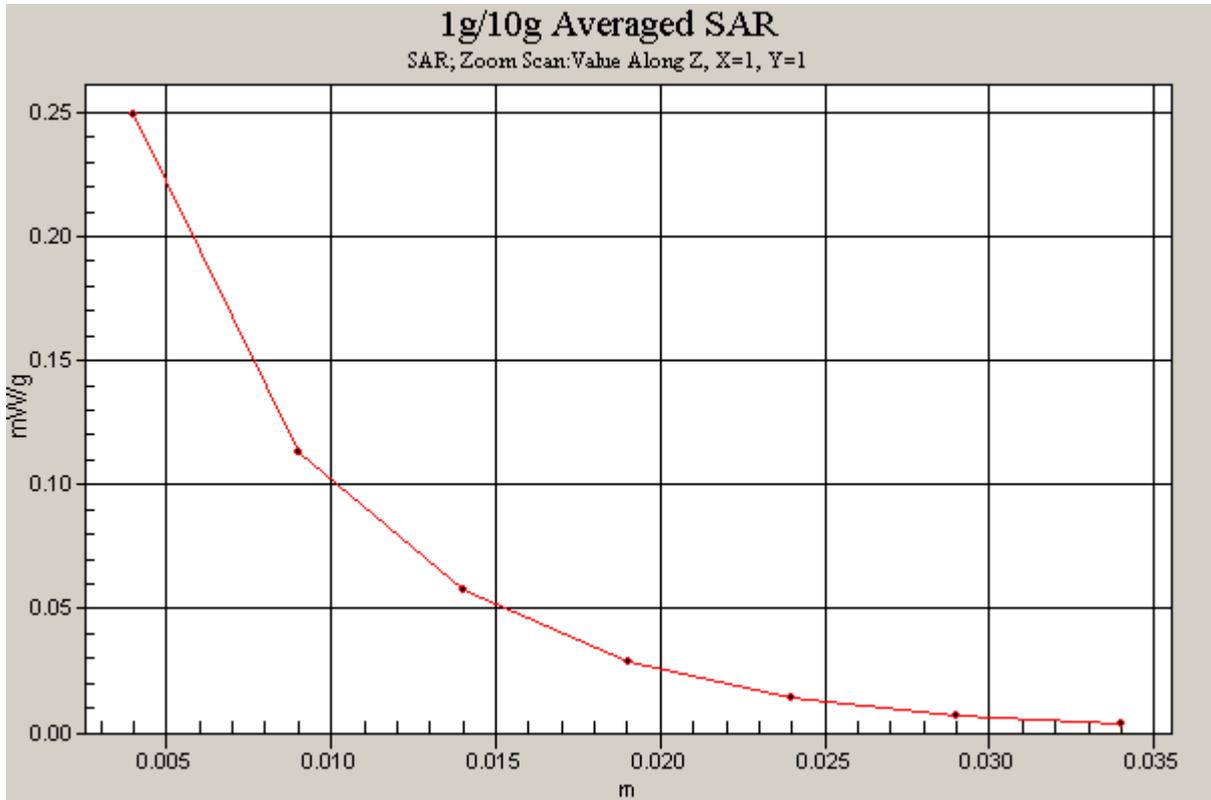


Figure 89 Right Hand Touch Cheek 802.11b Channel 1

### 802.11b Right Tilt Middle

Date/Time: 5/3/2011 1:23:15 PM

Communication System: 802.11b; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.8$  mho/m;  $\epsilon_r = 39.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5°C

Phantom section: Right Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(7.32, 7.32, 7.32); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Tilt Middle/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.086 mW/g

**Tilt Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.62 V/m; Power Drift = -0.010 dB

Peak SAR (extrapolated) = 0.151 W/kg

**SAR(1 g) = 0.073 mW/g; SAR(10 g) = 0.040 mW/g**

Maximum value of SAR (measured) = 0.078 mW/g

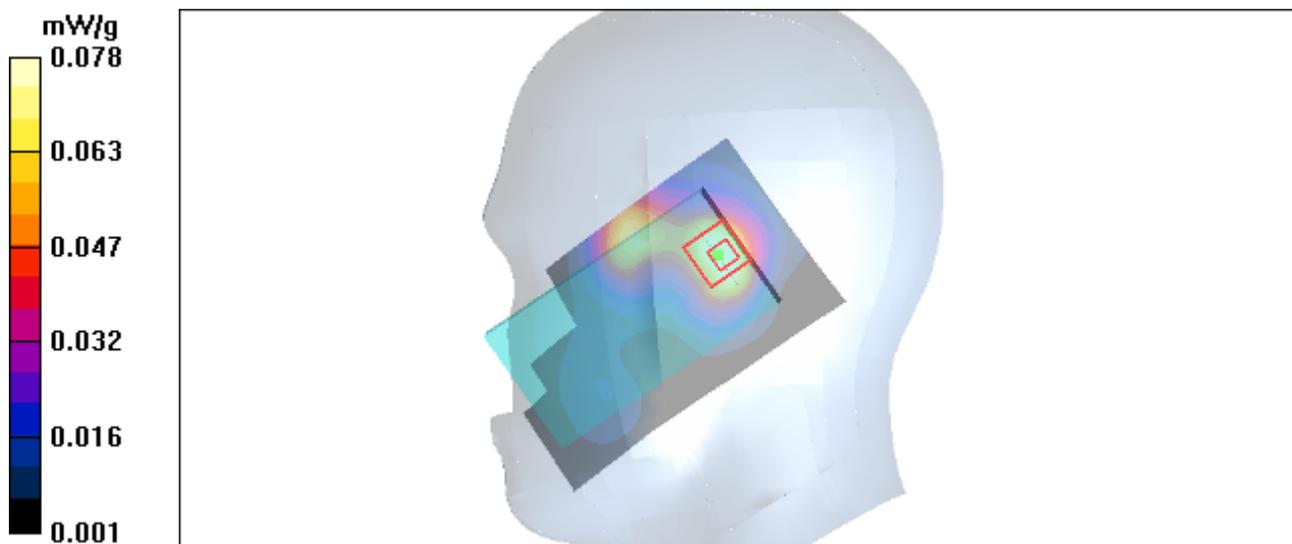


Figure 90 Right Hand Tilt 15° 802.11b Channel 6

### 802.11b Towards Ground High

Date/Time: 5/3/2011 3:53:42 PM

Communication System: 802.11b; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.96$  mho/m;  $\epsilon_r = 51.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(7.46, 7.46, 7.46); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

**Towards Ground High/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm,  
dz=5mm

Reference Value = 3.56 V/m; Power Drift = 0.098 dB

Peak SAR (extrapolated) = 0.065 W/kg

**SAR(1 g) = 0.033 mW/g; SAR(10 g) = 0.019 mW/g**

Maximum value of SAR (measured) = 0.034 mW/g

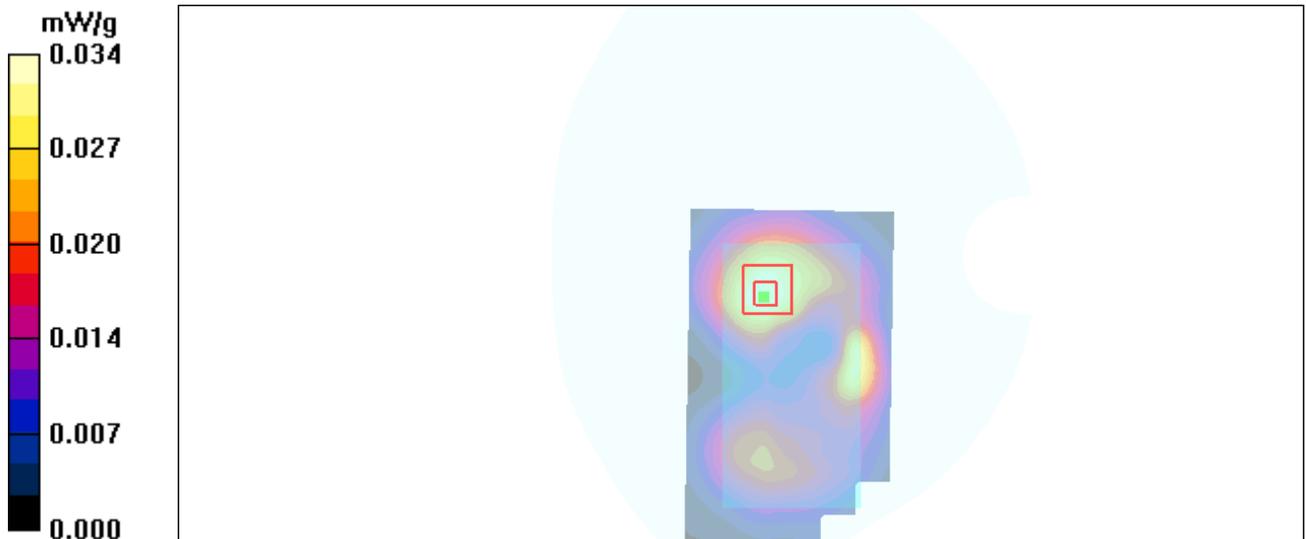


Figure 91 Body, Towards Ground, 802.11b Channel 11

### 802.11b Towards Ground Middle

Date/Time: 5/3/2011 3:19:07 PM

Communication System: 802.11b; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.93$  mho/m;  $\epsilon_r = 51.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(7.46, 7.46, 7.46); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

**Towards Ground Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.61 V/m; Power Drift = 0.025 dB

Peak SAR (extrapolated) = 0.097 W/kg

**SAR(1 g) = 0.050 mW/g; SAR(10 g) = 0.029 mW/g**

Maximum value of SAR (measured) = 0.051 mW/g

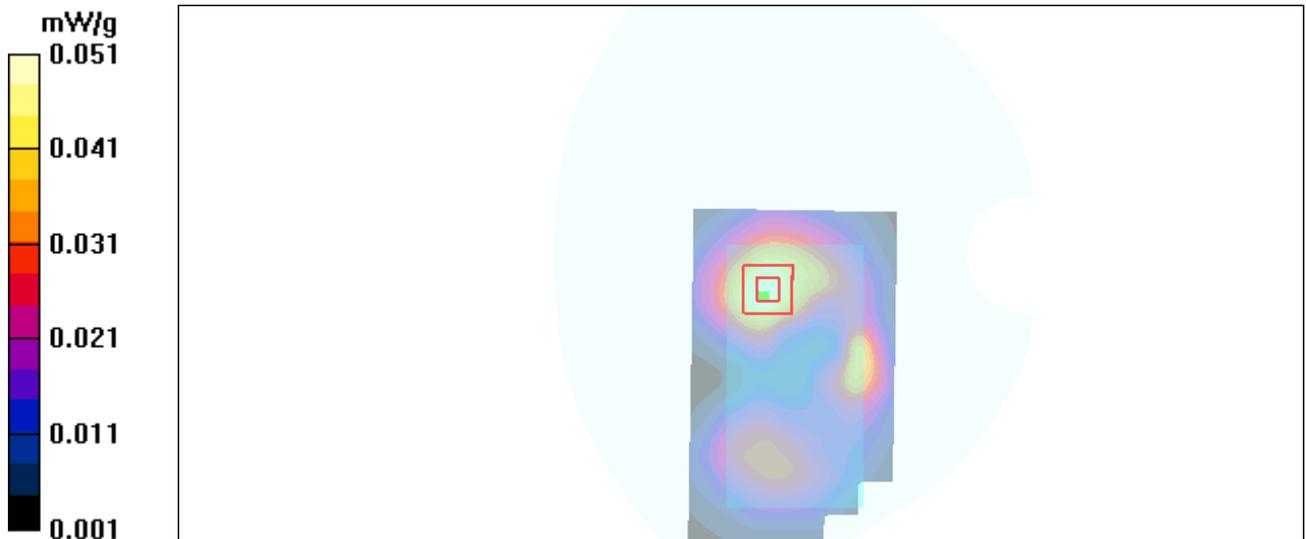


Figure 92 Body, Towards Ground, 802.11b Channel 6

### 802.11b Towards Ground Low

Date/Time: 5/3/2011 4:07:53 PM

Communication System: 802.11b; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.89$  mho/m;  $\epsilon_r = 51.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(7.46, 7.46, 7.46); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Ground Low/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.057 mW/g

**Towards Ground Low/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.60 V/m; Power Drift = 0.064 dB

Peak SAR (extrapolated) = 0.103 W/kg

**SAR(1 g) = 0.053 mW/g; SAR(10 g) = 0.031 mW/g**

Maximum value of SAR (measured) = 0.054 mW/g

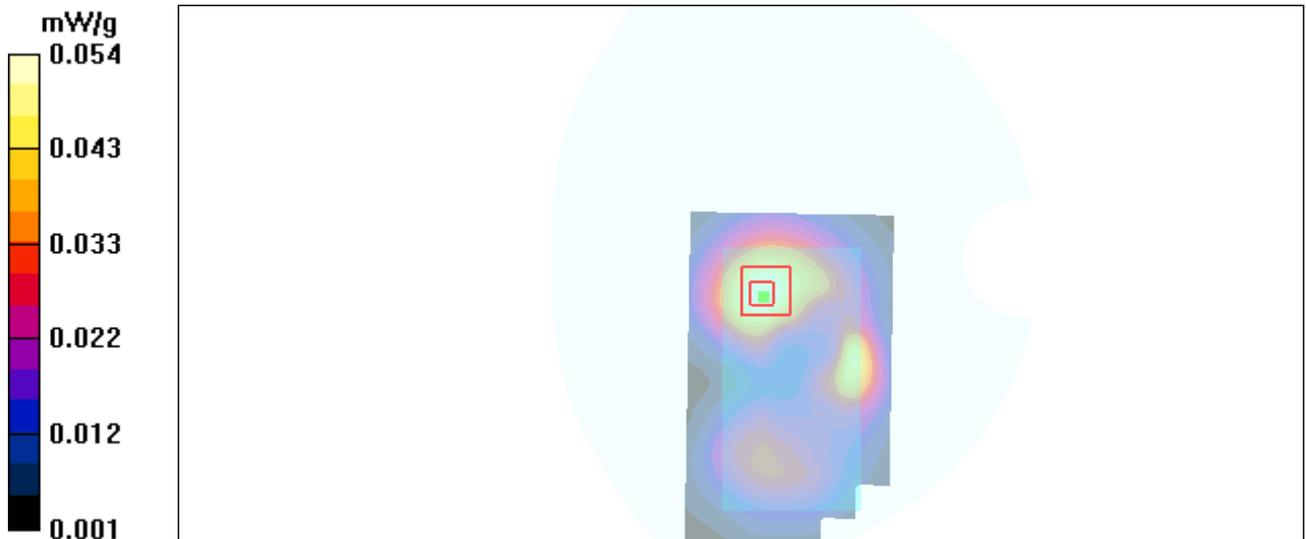


Figure 93 Body, Towards Ground, 802.11b Channel 1

### 802.11b Towards Phantom Middle

Date/Time: 5/3/2011 3:38:05 PM

Communication System: 802.11b; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.93$  mho/m;  $\epsilon_r = 51.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(7.46, 7.46, 7.46); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Phantom Middle/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.033 mW/g

**Towards Phantom Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.91 V/m; Power Drift = 0.041 dB

Peak SAR (extrapolated) = 0.039 W/kg

**SAR(1 g) = 0.020 mW/g; SAR(10 g) = 0.012 mW/g**

Maximum value of SAR (measured) = 0.021 mW/g

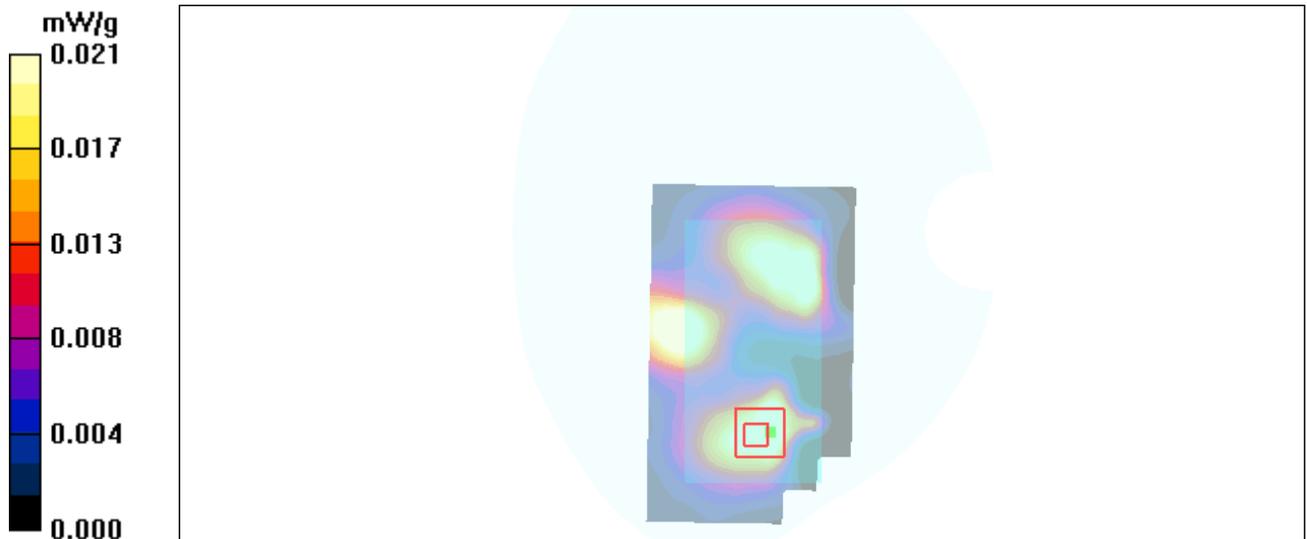


Figure 94 Body, Towards Phantom, 802.11b Channel 6

### 802.11b with Earphone Towards Ground Low

Date/Time: 5/3/2011 4:23:28 PM

Communication System: 802.11b; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.89$  mho/m;  $\epsilon_r = 51.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(7.46, 7.46, 7.46); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Ground Low/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.055 mW/g

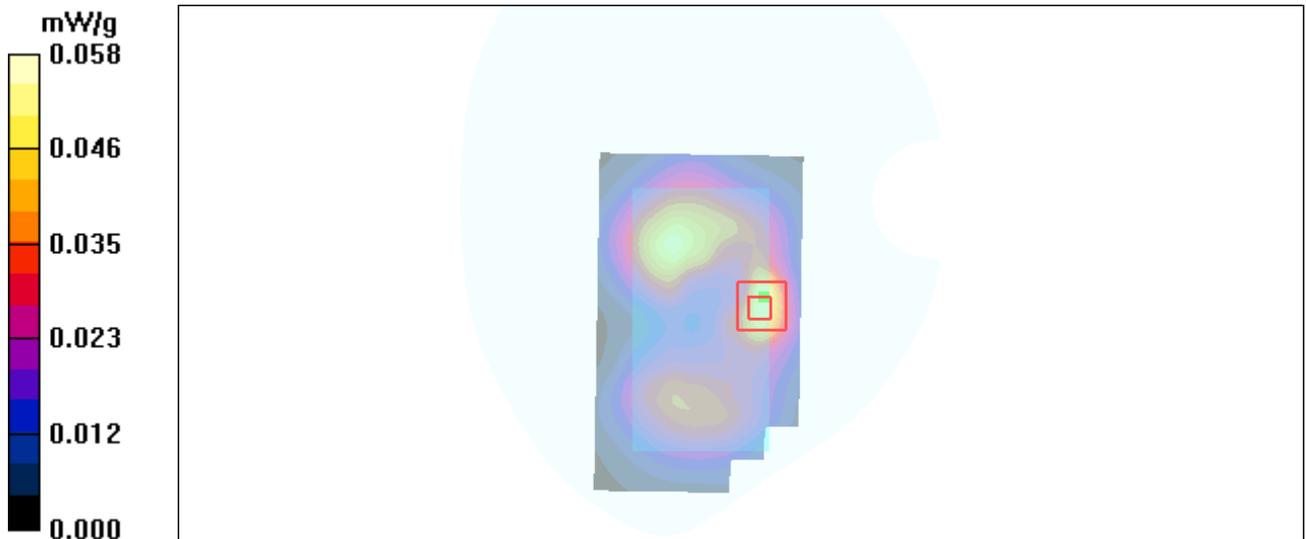
**Towards Ground Low/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm,  
dz=5mm

Reference Value = 4.17 V/m; Power Drift = 0.004 dB

Peak SAR (extrapolated) = 0.125 W/kg

**SAR(1 g) = 0.056 mW/g; SAR(10 g) = 0.028 mW/g**

Maximum value of SAR (measured) = 0.058 mW/g



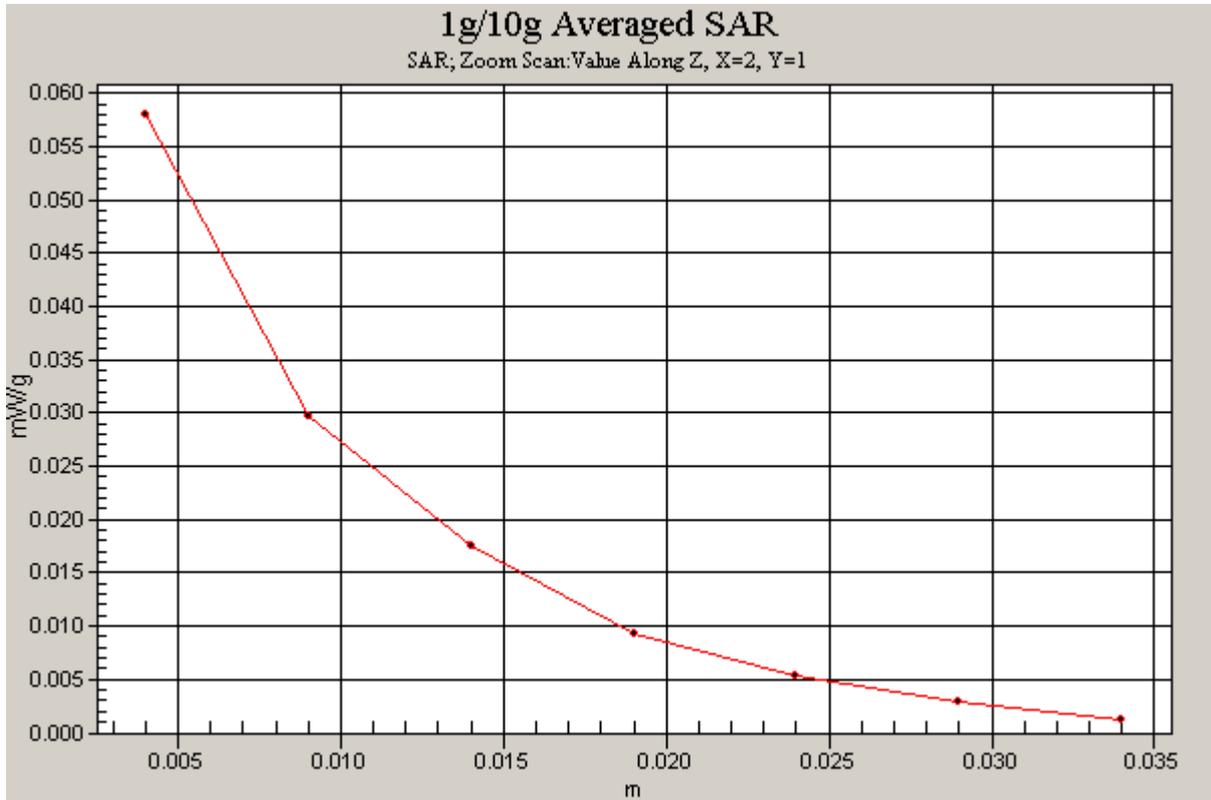


Figure 95 Body with earphone, Towards Ground, 802.11b Channel 1

### 802.11b (Hot spots) Towards Ground High

Date/Time: 5/3/2011 6:12:21 PM

Communication System: 802.11b; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.96$  mho/m;  $\epsilon_r = 51.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(7.46, 7.46, 7.46); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Ground High/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.156 mW/g

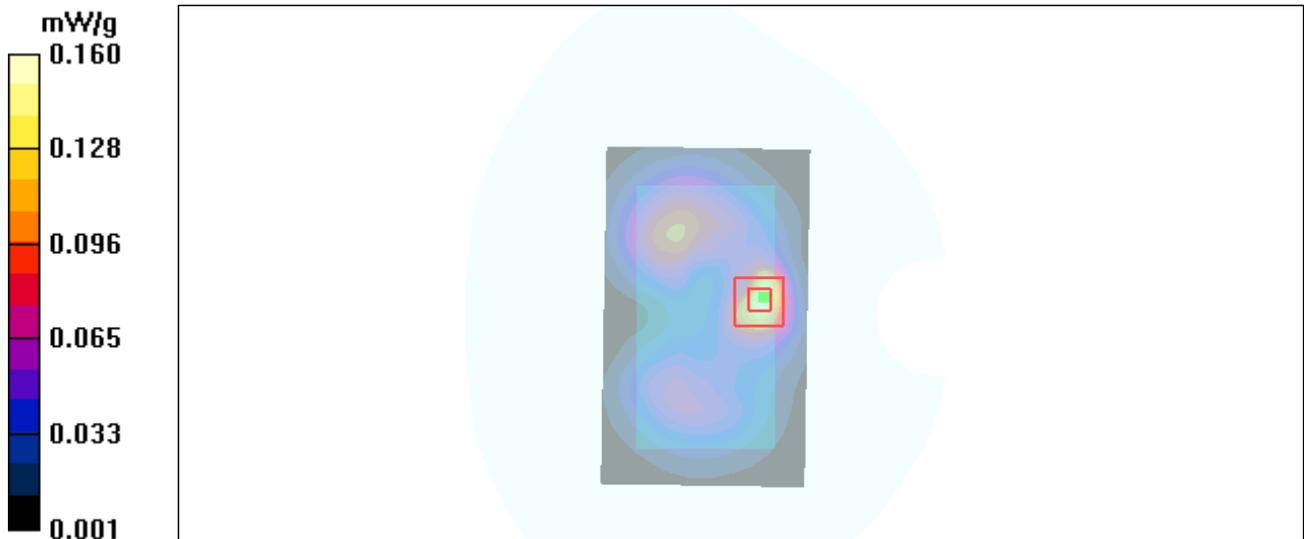
**Towards Ground High/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm,  
dz=5mm

Reference Value = 4.35 V/m; Power Drift = -0.182 dB

Peak SAR (extrapolated) = 0.397 W/kg

**SAR(1 g) = 0.160 mW/g; SAR(10 g) = 0.073 mW/g**

Maximum value of SAR (measured) = 0.160 mW/g



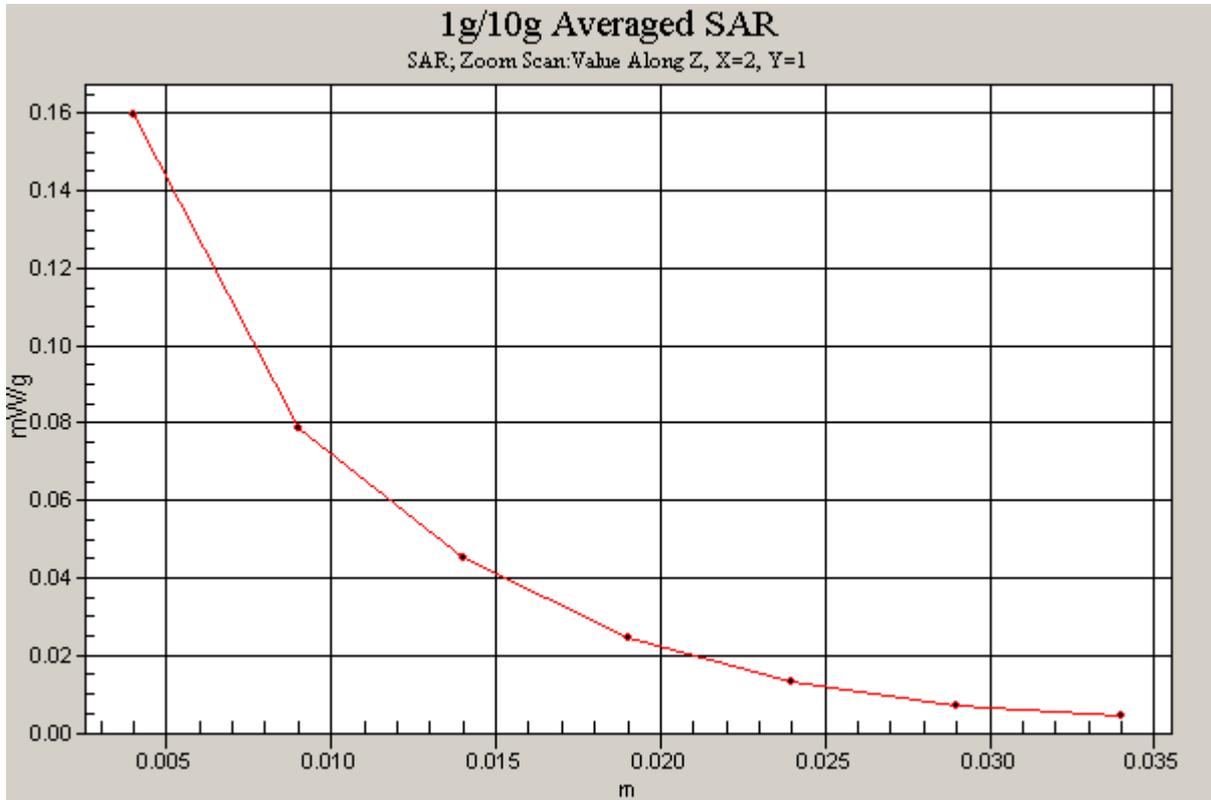


Figure 96 Body, Towards Ground, 802.11b Channel 11

### 802.11b (Hot spots) Towards Ground Middle

Date/Time: 5/3/2011 4:45:57 PM

Communication System: 802.11b; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.93$  mho/m;  $\epsilon_r = 51.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3677; ConvF(7.46, 7.46, 7.46); Calibrated: 11/24/2010

Electronics: DAE4 Sn871; Calibrated: 11/18/2010

Phantom: SAM000 T01; Type: SAM V4.0; Serial: TP-1246

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Towards Ground Middle/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.107 mW/g

**Towards Ground Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.54 V/m; Power Drift = 0.004 dB

Peak SAR (extrapolated) = 0.290 W/kg

**SAR(1 g) = 0.115 mW/g; SAR(10 g) = 0.052 mW/g**

Maximum value of SAR (measured) = 0.114 mW/g

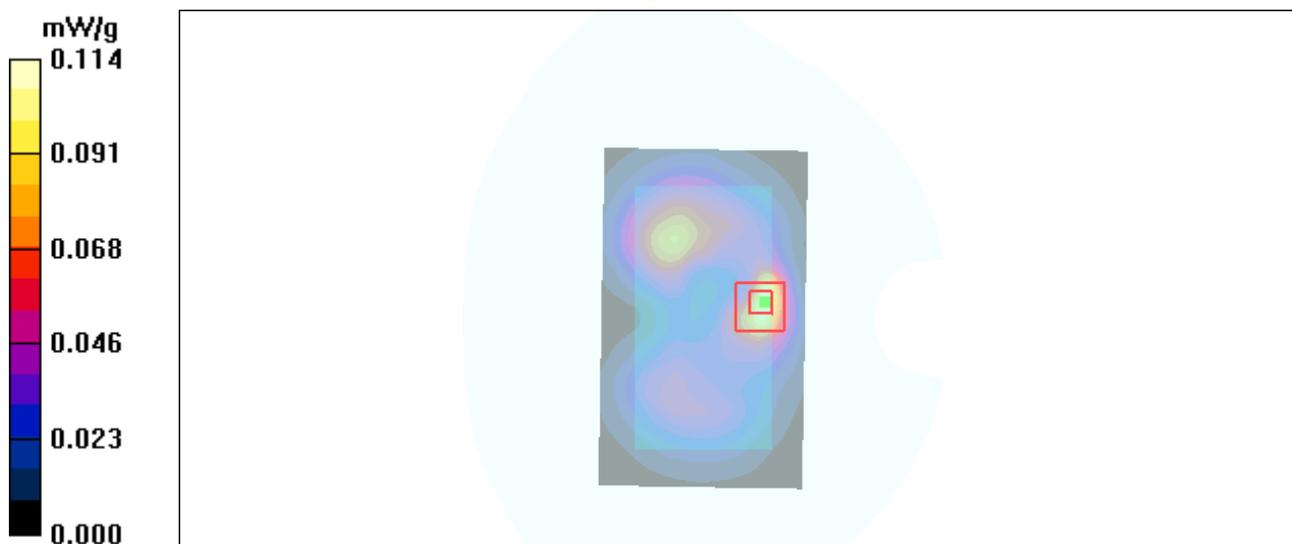


Figure 97 Body, Towards Ground, 802.11b Channel 6