

SAR TEST REPORT

Equipment Under Test	Smartphone
Model Name	PB99220
Brand Name	HTC
Company Name	HTC Corporation
Company Address	No.23, Xinghua Rd., Taoyuan City, Taoyuan County 330, Taiwan.
Date of Receipt	2010.03.22
Date of Test(s)	2010.04.03 - 05
Date of Issue	2010.04.09

Standards:

**FCC OET 65 supplement C,
IEEE/ANSI/C95.1, C95.3, IEEE 1528
RSS-102**

In the configuration tested, the EUT complied with the standards specified above.

Remarks:

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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Tested by : Antony Wu *Antony Wu* Date : 2010.04.09
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1. General Information

1.1 Testing Laboratory

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Taipei county, Taiwan, R.O.C.	
Telephone	+886-2-2299-3279
Fax	+886-2-2298-0488
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1.2 Details of Applicant

Company Name	HTC Corporation
Company Address	No. 23 Xinghua Rd., Taoyuan City, Taoyuan County 330, Taiwan.
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1.3 Description of EUT

EUT Name	Smartphone
Model Name	PB99220
Brand Name	HTC
IMEI Code	Original solution : 351961040010710 Second solution : 351961040010108
FCC ID	NM8PB99220
IC ID	4115B-PB99220
Mode of Operation	GSM/GPRS/WCDMA/HSDPA/HSUPA /WLAN802.11b&g band

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Modulation Mode	GMSK/8PSK/16QAM/QPSK/CCK/OFDM				
Duty Cycle	GSM	GPRS (2multi -slot)	WCDMA B2	WCDMA B5	WLAN 802.11b&g
	1/8	1/4	1		
Maximum RF Conducted Power (Average)	GSM 850	GSM 1900	WCDMA B2	WCDMA B5	WLAN 802.11b&g
	33dBm	29.4dBm	22.82dBm	22.89dBm	17.60dBm
TX Frequency Range (MHz)	GSM 850	GSM 1900	WCDMA B2	WCDMA B5	WLAN 802.11b&g
	824.2 -848.8	1850.2 -1909.8	1852.4 -1907.6	826.4 -846.6	2412 - 2462
Channel Number (ARFCN)	GSM 850	GSM 1900	WCDMA B2	WCDMA B5	WLAN 802.11b&g
	128-251	512-810	9612-9888	4132-4233	1-11
VOIP Function	Yes				
Battery Type	3.7 V Lithium-Ion				
Antenna Type	Internal Antenna				
Definition	Second solution(change Camera)				
	<p>In addition to the Original sample shown in these Test results, model PB99220 also has an option for a camera; SAR values were checked on these options using the spot check method. We found results were same or lower than Original for GSM850/GSM1900/WCDMA B2/WCDMA B5/WLAN 802.11b/g but still within 20% of highest measured SAR.</p>				
Max. SAR Measured (1 g)	Original solution				
	GSM850				
	Head		Body		
	0.526 mW/g (At GSM 850 Left Head (Cheek Position)_ 128 channel)		0.587 mW/g (At GSM 850 Body_ 190 channel_repeated with Merry headset)		

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Max. SAR Measured (1 g)	GSM1900	
	Head	Body
	0.605 mW/g (At GSM 1900 Right Head (Cheek Position)_ 512 channel)	0.385 mW/g (At GSM 1900 Body_ 512 channel)
	WCDMA B2	
	Head	Body
	0.961 mW/g (At WCDMA B2 Right Head (Cheek Position)_ 9400 channel)	0.357 mW/g (At WCDMA B2 Body_ 9262 channel)
	WCDMA B5	
	Head	Body
	0.432 mW/g (At WCDMA B5 Left Head (Cheek Position)_ 4132 channel)	0.258 mW/g (At WCDMA B5 Body_ 4183 channel)
	WLAN 802.11 b	
	Head	Body
	0.205 mW/g (At WLAN 802.11b Right Head (15° Tilt Position)_ 1 channel)	0.132 mW/g (At WLAN 802.11b Body_ 1 channel)
	WLAN 802.11 g	
	Head	Body
0.062mW/g (At WLAN 802.11g Right Head (15° Tilt Position)_ 1 channel)	0.044 mW/g (At WLAN 802.11g Body_ 1 channel)	

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Max. SAR Measured (1 g)	Second solution	
	GSM850	
	Head	Body
	0.516 mW/g (At GSM 850 Left Head (Cheek Position)_ 128 channel)	0.549 mW/g (At GSM 850 Body_ 190 channel_repeated with Merry headset)
	GSM1900	
	Head	Body
	0.572 mW/g (At GSM 1900 Right Head (Cheek Position)_ 512 channel_repeated with Memory card)	0.377 mW/g (At GSM 1900 Body_ 512 channel)
	WCDMA B2	
	Body	Body
	0.836 mW/g (At WCDMA B2 Body_ 9262 channel)	0.35 mW/g (At WCDMA B2 Body_ 9262 channel)
	WCDMA B5	
	Head	Body
	0.513 mW/g (At WCDMA B5 Left Head (Cheek Position)_ 4132 channel)	0.271 mW/g (At WCDMA B5 Body_ 4183 channel)
	WLAN 802.11 b	
Head	Body	
0.136 mW/g (At WLAN 802.11b Right Head (15° Tilt Position)_ 1 channel)	0.117 mW/g (At WLAN 802.11b Body_ 1 channel)	

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Max. SAR Measured (1 g)	WLAN 802.11 g	
	Head	Body
	0.061 mW/g (At WLAN 802.11g Right Head (15° Tilt Position)_ 1 channel)	0.04 mW/g (At WLAN 802.11g Body_ 1 channel)

Note:

1. WCDMA B2 & B5 HSDPA & HSUPA conducted power:

Mode	Sub-test	Band	WCDMA B2		
		Channel	9262	9400	9538
HSDPA	R99		22.65	22.5	22.29
	1	$\beta_c/\beta_d(2/15)$	22.82	22.39	22.15
	2	$\beta_c/\beta_d(12/15)$	22.53	22.36	22.14
	3	$\beta_c/\beta_d(15/8)$	22.34	21.94	21.62
	4	$\beta_c/\beta_d(15/4)$	22.41	21.95	21.74

Mode	Sub-test	Band	WCDMA B2		
		Channel	9262	9400	9538
HSUPA	R99		22.65	22.5	22.29
	1	$\beta_c/\beta_d(11/15)$	22.57	22.48	22.23
	2	$\beta_c/\beta_d(6/15)$	20.62	20.55	20.27
	3	$\beta_c/\beta_d(15/9)$	21.63	21.5	21.31
	4	$\beta_c/\beta_d(2/15)$	20.75	20.6	22.31
	5	$\beta_c/\beta_d(15/15)$	22.46	22.34	22.14

Mode	Sub-test	Band	WCDMA B5		
		Channel	4132	4183	4233
HSDPA	R99		22.85	22.71	22.77
	1	$\beta_c/\beta_d(2/15)$	22.64	23.57	22.89
	2	$\beta_c/\beta_d(12/15)$	22.78	22.6	22.64
	3	$\beta_c/\beta_d(15/8)$	22.18	22.09	22.4
	4	$\beta_c/\beta_d(15/4)$	22.23	22.13	22.46

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Mode	Sub-test	Band	WCDMA B5		
		Channel	4132	4183	4233
HSUPA	R99		22.85	22.71	22.77
	1	$\beta_c/\beta_d(11/15)$	22.81	22.64	22.69
	2	$\beta_c/\beta_d(6/15)$	20.87	20.72	20.73
	3	$\beta_c/\beta_d(15/9)$	21.85	21.7	21.77
	4	$\beta_c/\beta_d(2/15)$	20.92	20.78	20.81
	5	$\beta_c/\beta_d(15/15)$	22.67	22.47	22.58

1.4 Test Environment

Ambient Temperature: $22 \pm 2^\circ \text{C}$

Tissue Simulating Liquid: $22 \pm 2^\circ \text{C}$

1.5 Operation description

General:

1. The EUT is controlled by using a Radio Communication Tester (Agilent 8960), and the communication between the EUT and the tester is established by air link.
2. Measurements are performed respectively on the lowest, middle and highest channels of the operating band(s). The EUT is set to maximum power level during all tests, and at the beginning of each test the battery is fully charged.
3. The WLAN transmitter is controlled by chip-specific software installed in this PDA phone , to make the EUT transmit at max power.
4. During the SAR testing, the DASY5 system checks power drift by comparing the e-field strength of one specific location measured at the beginning with that measured at the end of the SAR testing.
5. Testing Head SAR at lowest, middle and highest channel for all bands with LET/LEC/RET/REC conditions.
6. Testing body-worn SAR by separating **1.5cm** between the back of the EUT and the flat phantom in GPRS mode.

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Additional configuration(Head):

7. For highest SAR configuration in this band repeated with external Memory card inside.
8. For highest SAR configuration in this band repeated with HT Energy Battery.

Additional configuration(Body):

9. Testing body-worn SAR with Handset and with Bluetooth transmitter OFF by separating **1.5cm** between the front of the EUT and the flat phantom in GPRS mode.
10. For highest SAR configuration in this band repeated with external Memory card inside.
11. For highest SAR configuration in this band repeated with Bluetooth active.
12. For highest SAR configuration in this band repeated with Merry headset.
13. For highest SAR configuration in this band repeated with HT Energy Battery
14. For highest SAR configuration in this band repeated with EGPRS mode.

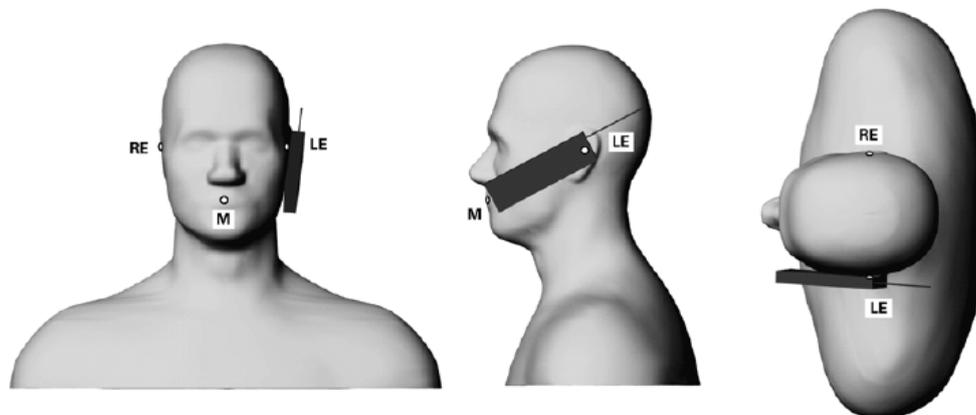
SAR evaluation considerations for handsets with multiple transmitters:

15. The maximum SAR value for licensed transmitter happens on GSM 850 band, Head Right side(Cheek Position) , channel 9400. the value is **0.961W/kg(1g)**. And the max SAR value for un-licensed transmitter WLAN 802.11b happens on Head Right side(15° Tilt Position), channel 1 The SAR value is **0.205W/kg (1g)** . The summation of the 1g SAR is **0.961+0.205 = 1.166 W/kg, which lower than the limit 1.6W/kg. No simultaneous transmission SAR evaluation is necessary.**

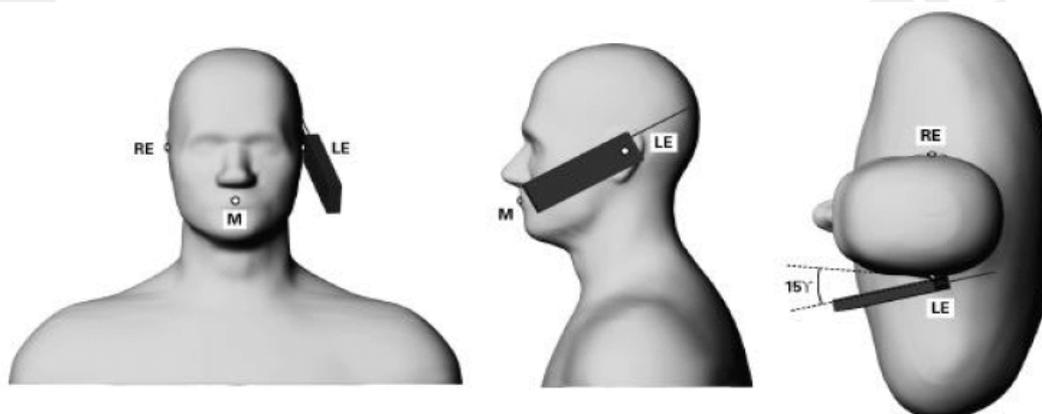
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1.6 Positioning Procedure



Phone position 1, "cheek" or "touch" position. The reference points for the right ear (RE), left ear (LE) and mouth (M), which define the reference plane for phone Positioning



Phone position 2, "tilted position." The reference points for the right ear (RE), left ear (LE) and mouth (M), which define the reference plane for phone positioning
Cheek/Touch Position:

The handset was brought toward the mouth of the head phantom by pivoting against the ear reference point until any point of the mouthpiece or keypad touched the phantom.

Ear/Tilt Position:

With the phone aligned in the Cheek/Touch position, the handset was tilted away from the mouth with respect to the test device reference point by 15 degrees.

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1.7 Evaluation Procedures

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

1. The extraction of the measured data (grid and values) from the Zoom Scan.
2. The calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
3. The generation of a high-resolution mesh within the measured volume
4. The interpolation of all measured values from the measurement grid to the high - resolution grid
5. The extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
6. The calculation of the averaged SAR within masses of 1g and 10g. The probe is calibrated at the center of the dipole sensors that is located 1 to 2.7mm away from the probe tip. During measurements, the probe stops shortly above the phantom surface, depending on the probe and the surface detecting system. Both distances are included as parameters in the probe configuration file. The software always knows exactly how far away the measured point is from the surface. As the probe cannot directly measure at the surface, the values between the deepest measured point and the surface must be extrapolated. The angle between the probe axis and the surface normal line is less than 30 degree.

In the Area Scan, the gradient of the interpolation function is evaluated to find all the extreme of the SAR distribution. The uncertainty on the locations of the extreme is less than 1/20 of the grid size. Only local maximum within -2 dB of the global maximum are searched and passed for the Cube Scan measurement. In the Cube Scan, the interpolation function is used to extrapolate the Peak SAR from the lowest measurement points to the inner phantom surface (the extrapolation distance). The uncertainty increases with the extrapolation distance. To keep the uncertainty within 1% for the 1 g and 10 g cubes, the extrapolation distance should not be larger than 5mm.

The maximum search is automatically performed after each area scan measurement. It is based on splines in two or three dimensions. The procedure can find the maximum

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for most SAR distributions even with relatively large grid spacing. After the area scanning measurement, the probe is automatically moved to a position at the interpolated maximum. The following scan can directly use this position for reference, e.g., for a finer resolution grid or the cube evaluations. The 1g and 10g peak evaluations are only available for the predefined cube 7x7x7 scans.

The routines are verified and optimized for the grid dimensions used in these cube measurements. The measured volume of 30x30x30mm contains about 30g of tissue. The first procedure is an extrapolation (incl. Boundary correction) to get the points between the lowest measured plane and the surface. The next step uses 3D interpolation to get all points within the measured volume. In the last step, a 1g cube is placed numerically into the volume and its averaged SAR is calculated. This cube is moved around until the highest averaged SAR is found.

If the highest SAR is found at the edge of the measured volume, the system will issue a warning : higher SAR values might be found outside of the measured volume. In that case the cube measurement can be repeated, using the new interpolated maximum as the center.

1.8 The SAR Measurement System

A photograph of the SAR measurement System is given in Fig. a. This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY 5 professional system). A Model ES3DV3 field probe is used to determine the internal electric fields. The SAR can be obtained from the equation $SAR = \sigma (|E_i|^2) / \rho$ where σ and ρ are the conductivity and mass density of the tissue-simulant.

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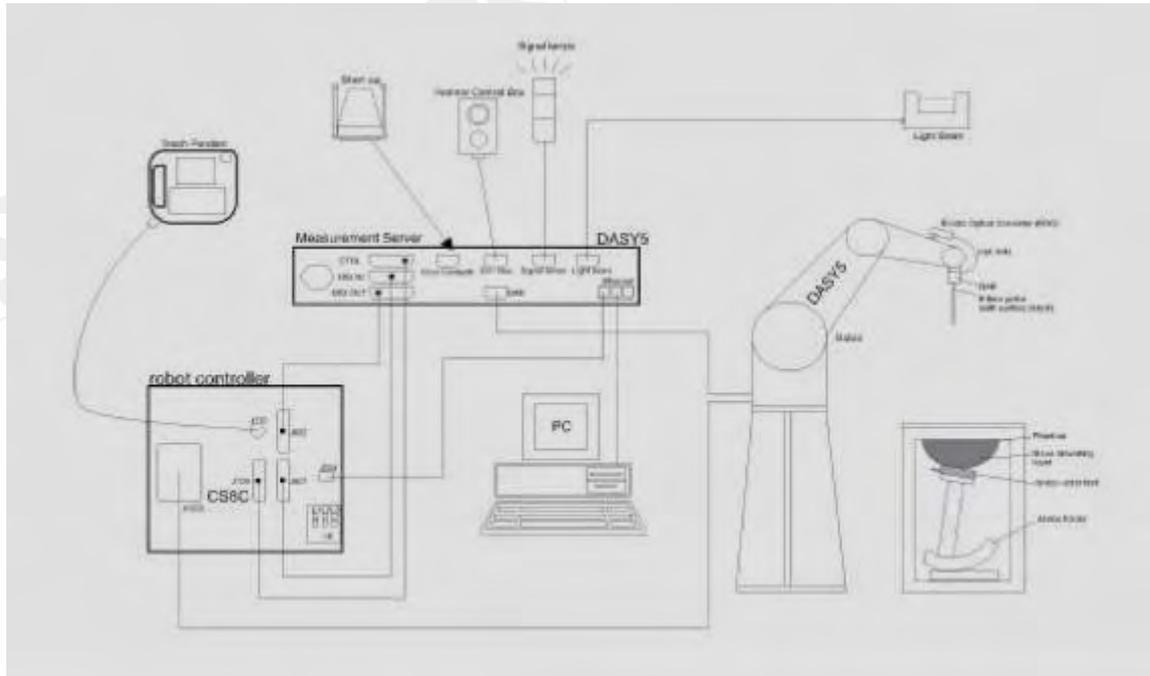


Fig.a The block diagram of SAR system

The DASY5 system for performing compliance tests consists of the following items:

- A standard high precision 6-axis robot (Staubli RX family) with controller, teach pendant and software. An arm extension is 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 electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to the DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the (absolute) accuracy of the probe

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positioning.

- A computer operating Windows 2000 or Windows XP.
- DASY5 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom enabling testing left-hand and right-hand usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- Validation dipole kits allowing to validate the proper functioning of the system.

1.9 System Components

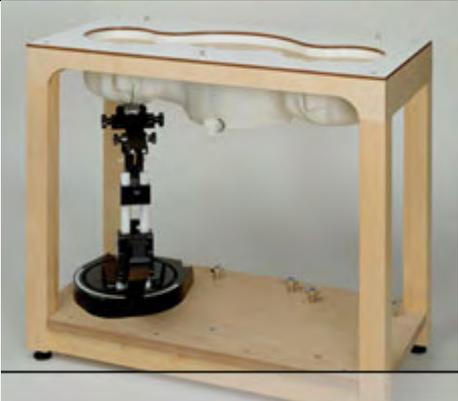
ES3DV3 E-Field Probe

Construction:	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Calibration:	Basic Broad Band Calibration in air Conversion Factors (CF) for HSL850/1900/2450 Additional CF for other liquids and frequencies upon request	
Frequency:	10 MHz to > 3 GHz; Linearity: ± 0.6 dB (30 MHz to 6 GHz)	
Directivity:	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)	
Dynamic Range:	10 μ W/g to > 100 mW/g; Linearity: ± 0.6 dB (noise: typically < 1 μ W/g)	
Dimensions:	Overall length: 337 mm (Tip: 10 mm) Tip diameter: 4 mm (Body: 10 mm) Typical distance from probe tip to dipole centers: 2 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%.	

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SAM PHANTOM V4.0C

Construction:	<p>The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528-200X, CENELEC 50361 and IEC 62209.</p> <p>It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by manually teaching three points with the robot.</p>	
Shell Thickness:	2 ± 0.2 mm	
Filling Volume:	Approx. 25 liters	
Dimensions:	<p>Height: 850 mm;</p> <p>Length: 1000 mm;</p> <p>Width: 500 mm</p>	

DEVICE HOLDER

Construction	<p>In combination with the Twin SAM Phantom V4.0/V4.0C or Twin SAM, the Mounting Device (made from POM) enables the rotation of the mounted transmitter in spherical coordinates, whereby the rotation point is the ear opening. The devices can be easily and accurately positioned according to IEC, IEEE, CENELEC, FCC or other specifications. The device holder can be locked at different phantom locations (left head, right head, flat phantom).</p>	 <p>Device Holder</p>
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1.10 SAR System Verification

The microwave circuit arrangement for system verification is sketched in Fig. b. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/-5% from the target SAR values. These tests were done at 850/1900/2450 MHz. The tests were conducted on the same days as the measurement of the DUT. The obtained results from the system accuracy verification are displayed in the table 1. During the tests, the ambient temperature of the laboratory was in the range 22.1°C, the relative humidity was in the range 62% and the liquid depth above the ear reference points was above 15 cm in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.

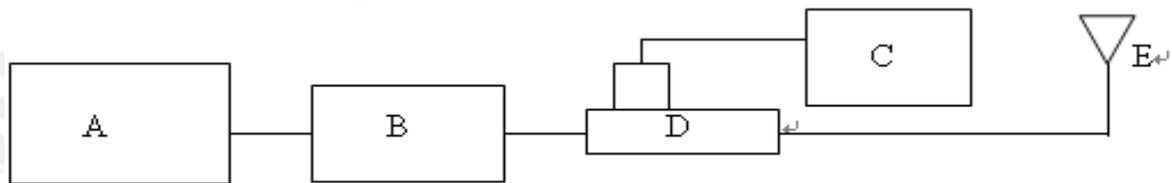
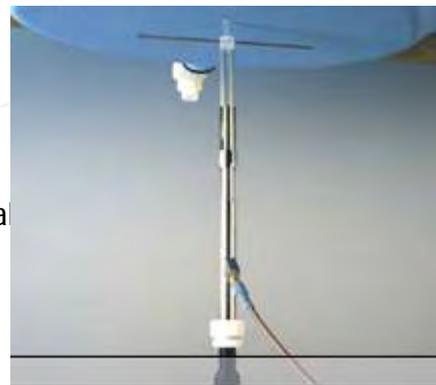


Fig.b The block diagram of SAR system verification

- A. Agilent Model 8648D Signal Generator
- B. Mini circuits Model ZHL-42 Amplifier
- C. Agilent Model U2001B Power Sensor
- D. Agilent Model 778D & 777D Dual directional coupling
- E. Reference dipole antenna



Photograph of the dipole Antenna

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Validation Kit	Frequency (MHz)	Target SAR (1g) (Pin=250mW)	Measured SAR (1g)	Measured Date
D835V2 S/N: 4d063	835 MHz (Head)	2.38 mW/g	2.27 mW/g	2010/04/03
D835V2 S/N: 4d063	835 MHz (Body)	2.55 mW/g	2.53 mW/g	2010/04/03
D1900V2 S/N: 5d027	1900 MHz (Head)	10.5 mW/g	11 mW/g	2010/04/04
D1900V2 S/N: 5d027	1900 MHz (Body)	10.6 mW/g	10.1 mW/g	2010/04/04
D2450V2 S/N: 727	2450 MHz (Head)	13.5 mW/g	13.8 mW/g	2010/04/05
D2450V2 S/N: 727	2450 MHz (Body)	13.2 mW/g	13.5 mW/g	2010/04/05

Table 1. System validation (follow manufacture target value)

1.11 Tissue Simulant Fluid for the Frequency Band

The dielectric properties for this Head-simulant fluid were measured by using the HP Model 85070D Dielectric Probe (rates frequency band 200 MHz to 20 GHz) in conjunction with HP 8753D Network Analyzer (30 KHz-6000MHz) by using a procedure detailed in Section V.

All dielectric parameters of tissue simulates were measured within 24 hours of SAR measurements. The depth of the tissue simulant in the ear reference point of the phantom was 15cm±5mm during all tests. (Appendix Fig .2)

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Frequency (MHz)	Tissue type	Measurement date/ Limits	Dielectric Parameters		
			ρ	σ (S/m)	Simulated Tissue Temperature(° C)
850	Head	Measured, 2010.04.03	40.4	0.878	21.7
		Recommended Limits	38.76-42.84	0.85-0.93	20-24
850	Body	Measured, 2010.04.03	54	1	21.7
		Recommended Limits	51.11-56.49	0.96-1.06	20-24
1900	Head	Measured, 2010.04.04	38.2	1.46	21.7
		Recommended Limits	36.67-40.53	1.4-1.54	20-24
1900	Body	Measured, 2010.04.04	54.5	1.59	21.7
		Recommended Limits	52.16-57.65	1.48-1.64	20-24
2450	Head	Measured, 2010.04.05	38.1	1.82	21.7
		Recommended Limits	36.10-39.90	1.73-1.91	20-24
2450	Body	Measured, 2010.04.05	52	2.06	21.7
		Recommended Limits	51.68-57.12	1.88-2.08	20-24

Table 2. Dielectric Parameters of Tissue Simulant Fluid

The composition of the brain tissue simulating liquid for 850 & 1900 & 2450 band:

Ingredient	850MHz (Head)	850MHz (Body)	1900MHz (Head)	1900MHz (Body)	2450MHz (Body)
DGMBE	X	X	444.52 g	300.67 g	301.7 ml
Water	532.98 g	631.68 g	552.42 g	716.56 g	698.3 ml
Salt	18.3 g	11.72 g	3.06 g	4.0 g	X
Preventol D-7	2.4 g	1.2 g	X	X	X
Cellulose	3.2 g	X	X	X	X
Sugar	766.0 g	600 g	X	X	X
Total amount	1 L (1.0kg)	1 L (1.0kg)	1 L (1.0kg)	1 L (1.0kg)	1 L (1.0kg)

Table 3. Recipes for tissue simulating liquid

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1.12 Test Standards and Limits

According to FCC 47CFR §2.1093(d) The limits to be used for evaluation are based generally on criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate ("SAR") in Section 4.2 of "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," ANSI/IEEE C95.1-1992, Copyright 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017. These criteria for SAR evaluation are similar to those recommended by the National Council on Radiation Protection and Measurements (NCRP) in "Biological Effects and Exposure Criteria for Radio frequency Electromagnetic Fields," NCRP Report No. 86, Section 17.4.5. Copyright NCRP, 1986, Bethesda, Maryland 20814. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards. The criteria to be used are specified in paragraphs (d)(1) and (d)(2) of this section and shall apply for portable devices transmitting in the frequency range from 100 kHz to 6 GHz. Portable devices that transmit at frequencies above 6 GHz are to be evaluated in terms of the MPE limits specified in § 1.1310 of this chapter.

Measurements and calculations to demonstrate compliance with MPE field strength or power density limits for devices operating above 6 GHz should be made at a minimum distance of 5 cm from the radiating source.

(1) Limits for Occupational/Controlled exposure: 0.4 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 8 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 20 W/kg, as averaged over an 10 grams of tissue (defined as a tissue volume in the shape of a cube). Occupational/Controlled limits apply when persons are exposed as a consequence of their employment provided these persons are fully aware of and exercise control over their exposure. Awareness of exposure can be accomplished by use of warning labels or by specific training or education through appropriate means, such as an RF safety program in a work environment.

(2) Limits for General Population/Uncontrolled exposure: 0.08 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 1.6 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the

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hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 4 W/kg, as averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube).

General Population/Uncontrolled limits apply when the general public may be exposed, or when persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or do not exercise control over their exposure.

Warning labels placed on consumer devices such as cellular telephones will not be sufficient reason to allow these devices to be evaluated subject to limits for occupational/controlled exposure in paragraph (d)(1) of this section.(Table .6)

Human Exposure	Uncontrolled Environment General Population	Controlled Environment Occupational
Spatial Peak SAR (Brain)	1.60 m W/g	8.00 m W/g
Spatial Average SAR (Whole Body)	0.08 m W/g	0.40 m W/g
Spatial Peak SAR (Hands/Feet/Ankle/Wrist)	4.00 m W/g	20.00 m W/g

Table 4. RF exposure limits

Notes:

1. Uncontrolled environments are defined as locations where there is potential exposure of individuals who have no knowledge or control of their potential exposure.
2. Controlled environments are defined as locations where there is potential exposure of individuals who have knowledge of their potential exposure and can exercise control over their exposure.

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2. Summary of Results

Original solution

GSM 850 MHZ

Right Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	128	824.2	32.9dBm	0.443	22.1	21.7
	190	836.6	33dBm	0.4	22.1	21.7
	251	848.8	33dBm	0.322	22.1	21.7
Left Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	128	824.2	32.9dBm	0.526	22.1	21.7
	190	836.6	33dBm	0.474	22.1	21.7
	251	848.8	33dBm	0.374	22.1	21.7
Right Head (15° Tilt Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	128	824.2	32.9dBm	0.283	22.1	21.7
	190	836.6	33dBm	0.291	22.1	21.7
	251	848.8	33dBm	0.218	22.1	21.7
Left Head (15° Tilt Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	128	824.2	32.9dBm	0.308	22.1	21.7
	190	836.6	33dBm	0.29	22.1	21.7
	251	848.8	33dBm	0.232	22.1	21.7

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Body worn (testing in GPRS mode)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	128	824.2	32.3dBm	0.407	22.1	21.7
	190	836.6	32.4dBm	0.512	22.1	21.7
	251	848.8	32.3dBm	0.466	22.1	21.7
Body worn (testing in GPRS mode)_repeated for EUT front to phantom						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	190	836.6	32.4dBm	0.351	22.1	21.7
Body worn (testing in GPRS mode)_repeated with Memory card						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	190	836.6	32.4dBm	0.486	22.1	21.7
Body worn (testing in GPRS mode)_repeated with Merry headset						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	190	836.6	32.4dBm	0.587	22.1	21.7
Body worn (testing in GPRS mode)_repeated with HT Enery Battery						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	190	836.6	32.4dBm	0.469	22.1	21.7
Body worn (testing in GPRS mode)_repeated with EGPRS mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	190	836.6	26.4dBm	0.123	22.1	21.7

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PCS 1900 MHZ

Right Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	512	1850.2	29.3dBm	0.605	22.1	21.7
	661	1880	29.4dBm	0.591	22.1	21.7
	810	1909.8	29.2dBm	0.458	22.1	21.7
Left Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	512	1850.2	29.3dBm	0.489	22.1	21.7
	661	1880	29.4dBm	0.52	22.1	21.7
	810	1909.8	29.2dBm	0.391	22.1	21.7
Right Head (15° Tilt Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	512	1850.2	29.3dBm	0.32	22.1	21.7
	661	1880	29.4dBm	0.331	22.1	21.7
	810	1909.8	29.2dBm	0.25	22.1	21.7
Left Head (15° Tilt Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	512	1850.2	29.3dBm	0.305	22.1	21.7
	661	1880	29.4dBm	0.339	22.1	21.7
	810	1909.8	29.2dBm	0.256	22.1	21.7
Body worn (testing in GPRS mode)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	512	1850.2	28.7dBm	0.385	22.1	21.7
	661	1880	28.9dBm	0.361	22.1	21.7
	810	1909.8	28.7dBm	0.29	22.1	21.7

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WCDMA B2

Right Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B2	9262	1852.4	22.65dBm	0.852	22.1	21.7
	9400	1880	22.5dBm	0.961	22.1	21.7
	9538	1907.6	22.29dBm	0.866	22.1	21.7
Right Head (Cheek Position)_repeated with Memory card						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B2	9400	1880	22.5dBm	0.921	22.1	21.7
Right Head (Cheek Position)_repeated with HT Energy Battery						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B2	9400	1880	22.5dBm	0.87	22.1	21.7
Left Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B2	9262	1852.4	22.65dBm	0.84	22.1	21.7
	9400	1880	22.5dBm	0.863	22.1	21.7
	9538	1907.6	22.29dBm	0.761	22.1	21.7
Right Head (15° Tilt Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B2	9262	1852.4	22.65dBm	0.512	22.1	21.7
	9400	1880	22.5dBm	0.532	22.1	21.7
	9538	1907.6	22.29dBm	0.477	22.1	21.7
Left Head (15° Tilt Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B2	9262	1852.4	22.65dBm	0.527	22.1	21.7
	9400	1880	22.5dBm	0.556	22.1	21.7
	9538	1907.6	22.29dBm	0.494	22.1	21.7

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Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B2	9262	1852.4	22.65dBm	0.357	22.1	21.7
	9400	1880	22.5dBm	0.345	22.1	21.7
	9538	1907.6	22.29dBm	0.261	22.1	21.7

WCDMA B5

Right Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4132	826.4	22.85dBm	0.358	22.1	21.7
	4183	836.6	22.71dBm	0.335	22.1	21.7
	4233	846.6	22.77dBm	0.312	22.1	21.7

Left Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4132	826.4	22.85dBm	0.432	22.1	21.7
	4183	836.6	22.71dBm	0.403	22.1	21.7
	4233	846.6	22.77dBm	0.364	22.1	21.7

Right Head (15° Tilt Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4132	826.4	22.85dBm	0.266	22.1	21.7
	4183	836.6	22.71dBm	0.25	22.1	21.7
	4233	846.6	22.77dBm	0.234	22.1	21.7

Left Head (15° Tilt Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4132	826.4	22.85dBm	0.265	22.1	21.7
	4183	836.6	22.71dBm	0.251	22.1	21.7
	4233	846.6	22.77dBm	0.229	22.1	21.7

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Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4132	826.4	22.85dBm	0.228	22.1	21.7
	4183	836.6	22.71dBm	0.258	22.1	21.7
	4233	846.6	22.77dBm	0.238	22.1	21.7

WLAN802.11 b

Right Head (Cheek Position)						
Frequency MHz	Channel	Conducted Output Power (Peak)	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2412	1	20.12dBm	17.60dBm	0.155	22.1	21.7
2437	6	19.77dBm	17.12dBm	0.131	22.1	21.7
2462	11	19.99dBm	17.58dBm	0.114	22.1	21.7

Left Head (Cheek Position)						
Frequency MHz	Channel	Conducted Output Power (Peak)	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2412	1	20.12dBm	17.60dBm	0.111	22.1	21.7
2437	6	19.77dBm	17.12dBm	0.099	22.1	21.7
2462	11	19.99dBm	17.58dBm	0.08	22.1	21.7

Right Head (15° Tilt Position)						
Frequency MHz	Channel	Conducted Output Power (Peak)	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2412	1	20.12dBm	17.60dBm	0.205	22.1	21.7
2437	6	19.77dBm	17.12dBm	0.166	22.1	21.7
2462	11	19.99dBm	17.58dBm	0.137	22.1	21.7

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Right Head (15° Tilt Position)_repeated with Memory card						
Frequency MHz	Channel	Conducted Output Power (Peak)	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2412	1	20.12dBm	17.60dBm	0.153	22.1	21.7
Right Head (15° Tilt Position)_repeated with HT Energy Battery						
Frequency MHz	Channel	Conducted Output Power (Peak)	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2412	1	20.12dBm	17.60dBm	0.194	22.1	21.7
Left Head (15° Tilt Position)						
Frequency MHz	Channel	Conducted Output Power (Peak)	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2412	1	20.12dBm	17.60dBm	0.153	22.1	21.7
2437	6	19.77dBm	17.12dBm	0.125	22.1	21.7
2462	11	19.99dBm	17.58dBm	0.105	22.1	21.7
Body worn						
Frequency MHz	Channel	Conducted Output Power (Peak)	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2412	1	20.12dBm	17.60dBm	0.132	22.1	21.7
2437	6	19.77dBm	17.12dBm	0.121	22.1	21.7
2462	11	19.99dBm	17.58dBm	0.095	22.1	21.7
Body worn _repeated for EUT front to phantom						
Frequency MHz	Channel	Conducted Output Power (Peak)	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2412	1	20.12dBm	17.60dBm	0.024	22.1	21.7
Body worn _repeated with Memory card						
Frequency MHz	Channel	Conducted Output Power (Peak)	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2412	1	20.12dBm	17.60dBm	0.121	22.1	21.7

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Body worn _repeated with Bluetooth active						
Frequency MHz	Channel	Conducted Output Power (Peak)	Conducted Output Power (Average)	Measured(W/kg) 10g	Amb. Temp[° C]	Liquid Temp[° C]
2412	1	20.12dBm	17.60dBm	0.132	22.1	21.7
Body worn _repeated with Merry headset						
Frequency MHz	Channel	Conducted Output Power (Peak)	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
2412	1	20.12dBm	17.60dBm	0.131	22.1	21.7
Body worn _repeated with HT Energy Battery						
Frequency MHz	Channel	Conducted Output Power (Peak)	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
2412	1	20.12dBm	17.60dBm	0.129	22.1	21.7

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Right Head (Cheek Position)						
Frequency MHz	Channel	Conducted Output Power (Peak)	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
2412	1	15.51dBm	11.90dBm	0.058	22.1	21.7
2437	6	15.36dBm	11.94dBm	0.047	22.1	21.7
2462	11	15.55dBm	12.07dBm	0.041	22.1	21.7
Left Head (Cheek Position)						
Frequency MHz	Channel	Conducted Output Power (Peak)	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
2412	1	15.51dBm	11.90dBm	0.038	22.1	21.7
2437	6	15.36dBm	11.94dBm	0.031	22.1	21.7
2462	11	15.55dBm	12.07dBm	0.026	22.1	21.7

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Right Head (15° Tilt Position)						
Frequency MHz	Channel	Conducted Output Power (Peak)	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2412	1	15.51dBm	11.90dBm	0.062	22.1	21.7
2437	6	15.36dBm	11.94dBm	0.051	22.1	21.7
2462	11	15.55dBm	12.07dBm	0.041	22.1	21.7
Left Head (15° Tilt Position)						
Frequency MHz	Channel	Conducted Output Power (Peak)	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2412	1	15.51dBm	11.90dBm	0.055	22.1	21.7
2437	6	15.36dBm	11.94dBm	0.047	22.1	21.7
2462	11	15.55dBm	12.07dBm	0.038	22.1	21.7
Body worn						
Frequency MHz	Channel	Conducted Output Power (Peak)	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2412	1	15.51dBm	11.90dBm	0.044	22.1	21.7
2437	6	15.36dBm	11.94dBm	0.042	22.1	21.7
2462	11	15.55dBm	12.07dBm	0.033	22.1	21.7

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Second solution

GSM 850

Left Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	128	824.2	32.9dBm	0.516	22.1	21.7
Body worn (testing in GPRS mode)_repeated with Merry headset						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	190	836.6	32.4dBm	0.549	22.1	21.7

PCS 1900

Right Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	512	1850.2	29.3dBm	0.572	22.1	21.7
Body worn (testing in GPRS mode)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	512	1850.2	28.7dBm	0.377	22.1	21.7

WCDMA B2

Right Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B2	9400	1880	22.5dBm	0.836	22.1	21.7
Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B2	9262	1852.4	22.65dBm	0.35	22.1	21.7

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WCDMA B5

Left Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4132	826.4	22.85dBm	0.513	22.1	21.7
Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4183	836.6	22.71dBm	0.271	22.1	21.7

WLAN802.11b

Right Head (15° Tilt Position)						
Frequency MHz	Channel	Conducted Output Power (Peak)	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2412	1	20.12dBm	17.60dBm	0.136	22.1	21.7
Body worn						
Frequency MHz	Channel	Conducted Output Power (Peak)	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2412	1	20.12dBm	17.60dBm	0.117	22.1	21.7

WLAN802.11g

Right Head (15° Tilt Position)						
Frequency MHz	Channel	Conducted Output Power (Peak)	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2412	1	15.51dBm	11.90dBm	0.061	22.1	21.7
Body worn						
Frequency MHz	Channel	Conducted Output Power (Peak)	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2412	1	15.51dBm	11.90dBm	0.04	22.1	21.7

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3. Instruments List

Manufacturer	Device	Type	Serial number	Calibrated Date	Next calibration Date
Schmid & Partner Engineering AG	Dosimetric E-Field Probe	ES3DV3	3172	May.27.2009	May.26.2010
Schmid & Partner Engineering AG	835/1900/2450MHZ System Validation Dipole	D835V2	4d063	May.25.2009	May.24.2010
		D1900V2	5d027	Apr.27.2009	Apr.26.2010
		D2450V2	727	Apr.27.2009	Apr.26.2010
Schmid & Partner Engineering AG	Data acquisition Electronics	DAE4	856	May.26.2009	May.25.2010
Schmid & Partner Engineering AG	Software	DASY 5 V5.0 Build 125	N/A	Calibration isn't necessary	Calibration isn't necessary
Schmid & Partner Engineering AG	Phantom	SAM	N/A	Calibration isn't necessary	Calibration isn't necessary
Agilent	Network Analyzer	8753D	3410A05662	Mar.31.2010	Mar.30.2011
Agilent	Dielectric Probe Kit	85070D	US01440168	Calibration isn't necessary	Calibration isn't necessary
Agilent	Dual-directional coupler	778D	50313	Aug.26.2009	Aug.25.2010
		777D	50114	Aug.26.2009	Aug.25.2010
Agilent	RF Signal Generator	8648D	3847M00432	May.25.2009	May.24.2010
Agilent	Power Sensor	U2001B	MY48100169	Apr.23.2009	Apr.22.2010
Agilent	Radio Communication Test	E5515c	GB44051912	Nov.05 .2008	Nov.04 .2010

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4. Measurements

Date: 2010/4/3

RE Cheek_CH128

DUT: PB99220;

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium: Head 900 Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.87$ mho/m;

$\epsilon_r = 40.6$; $\rho = 1000$ kg/m³

Phantom section: Right Section

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (interpolated) = 0.470 mW/g

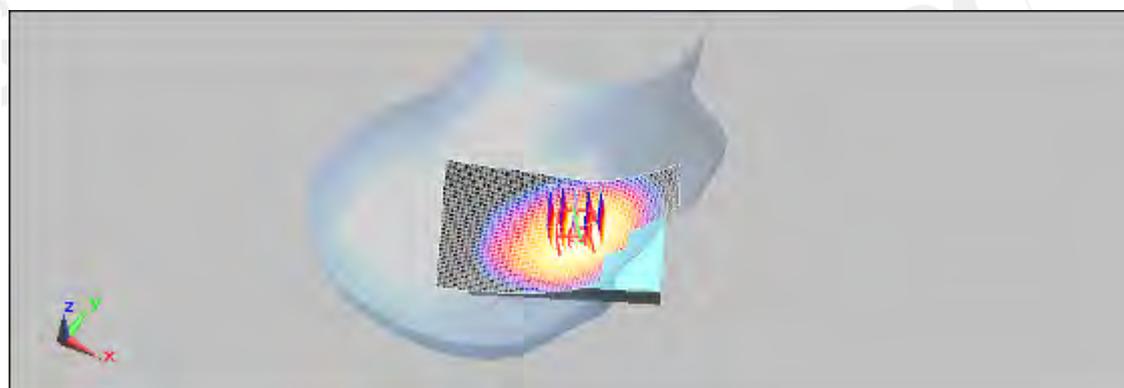
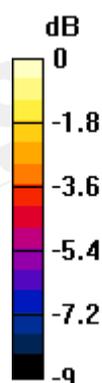
RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.9 V/m; Power Drift = -0.100 dB

Peak SAR (extrapolated) = 0.569 W/kg

SAR(1 g) = 0.443 mW/g; SAR(10 g) = 0.330 mW/g

Maximum value of SAR (measured) = 0.472 mW/g



0 dB = 0.472mW/g

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Date: 2010/4/3

RE Cheek_CH190

DUT: PB99220;

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3
Medium: Head 900 Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.88 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

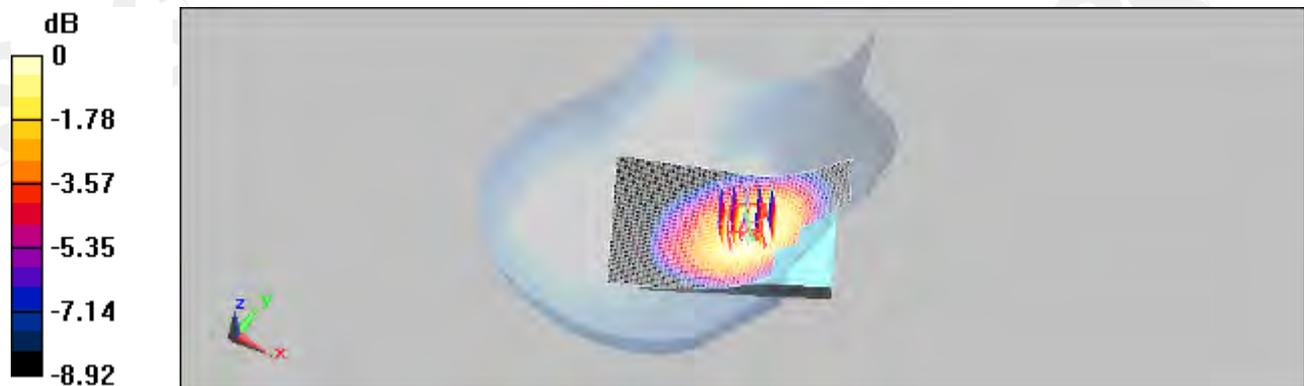
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Cheek/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.420 mW/g

RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 9.9 V/m; Power Drift = 0.145 dB
Peak SAR (extrapolated) = 0.513 W/kg

SAR(1 g) = 0.400 mW/g; SAR(10 g) = 0.297 mW/g
Maximum value of SAR (measured) = 0.425 mW/g



0 dB = 0.425mW/g

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Date: 2010/4/3

RE Cheek_CH251

DUT: PB99220;

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3
Medium: Head 900 Medium parameters used: $f = 849$ MHz; $\sigma = 0.894$ mho/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³
Phantom section: Right Section

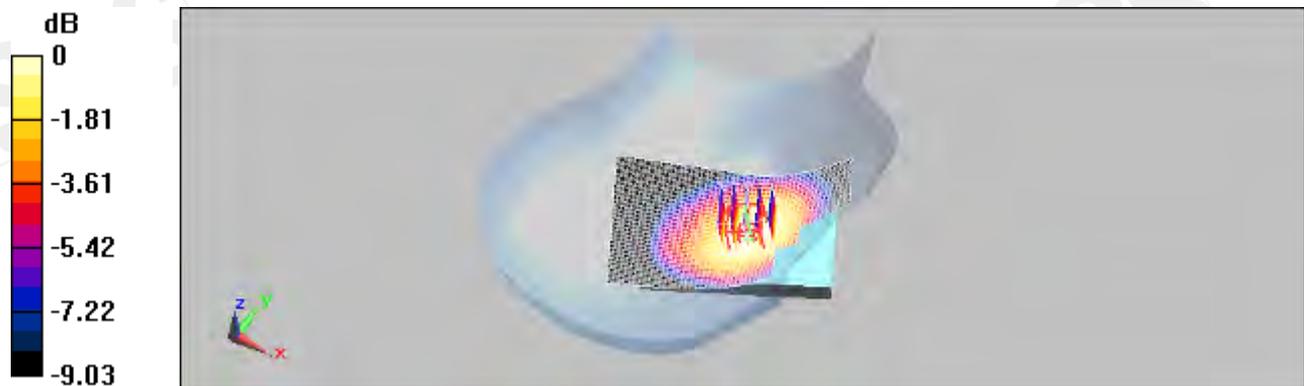
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.78 V/m; Power Drift = 0.078 dB
Peak SAR (extrapolated) = 0.413 W/kg

SAR(1 g) = 0.322 mW/g; SAR(10 g) = 0.239 mW/g
Maximum value of SAR (measured) = 0.343 mW/g



0 dB = 0.343mW/g

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Date: 2010/4/3

LE Cheek_CH128

DUT: PB99220;

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3
Medium: Head 900 Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.87$ mho/m;
 $\epsilon_r = 40.6$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.564 mW/g

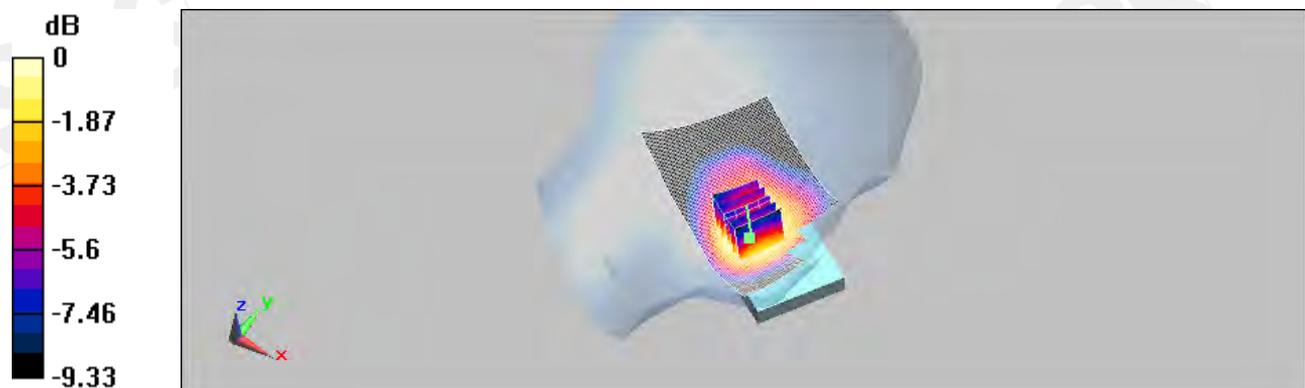
LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.4 V/m; Power Drift = -0.134 dB

Peak SAR (extrapolated) = 0.700 W/kg

SAR(1 g) = 0.526 mW/g; SAR(10 g) = 0.389 mW/g

Maximum value of SAR (measured) = 0.549 mW/g



0 dB = 0.549mW/g

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Date: 2010/4/3

LE Cheek_CH190

DUT: PB99220;

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3
Medium: Head 900 Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.88 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

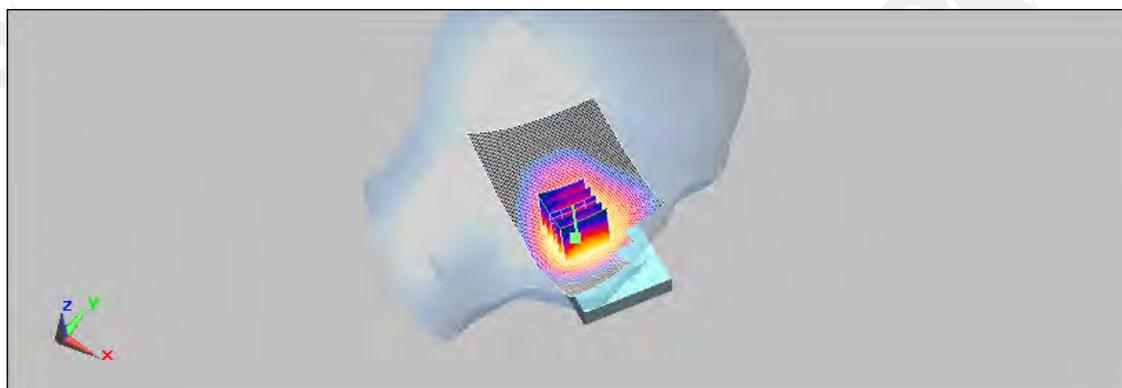
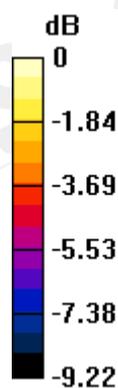
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.508 mW/g

LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 10.3 V/m; Power Drift = 0.098 dB
Peak SAR (extrapolated) = 0.630 W/kg

SAR(1 g) = 0.474 mW/g; SAR(10 g) = 0.347 mW/g
Maximum value of SAR (measured) = 0.493 mW/g



0 dB = 0.493mW/g

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Date: 2010/4/3

LE Cheek_CH251

DUT: PB99220;

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3
Medium: Head 900 Medium parameters used: $f = 849$ MHz; $\sigma = 0.894$ mho/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³
Phantom section: Left Section

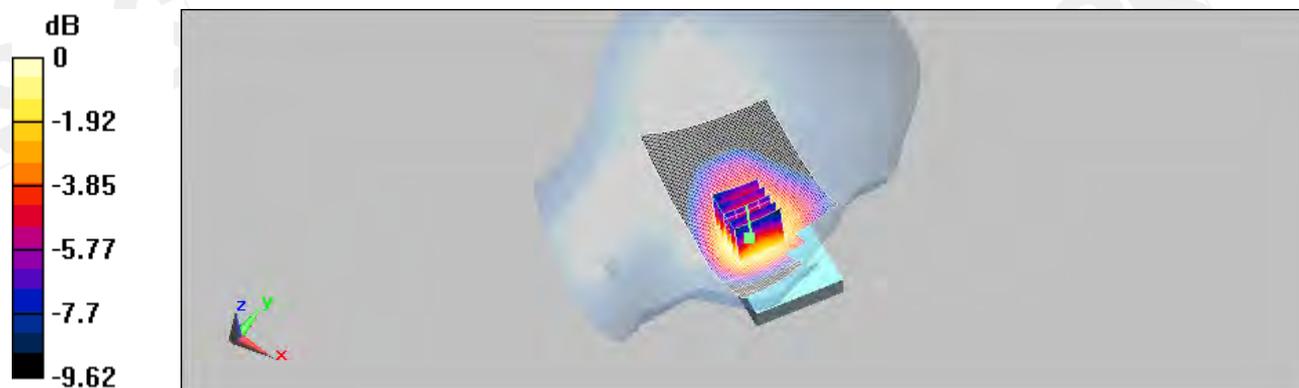
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.400 mW/g

LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.93 V/m; Power Drift = 0.062 dB
Peak SAR (extrapolated) = 0.495 W/kg

SAR(1 g) = 0.374 mW/g; SAR(10 g) = 0.274 mW/g
Maximum value of SAR (measured) = 0.394 mW/g



0 dB = 0.394mW/g

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Date: 2010/4/3

RE Tilt_CH128

DUT: PB99220;

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3
Medium: Head 900 Medium parameters used (interpolated): $f = 824.2 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$;
 $\epsilon_r = 40.6$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Tilt/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.327 mW/g

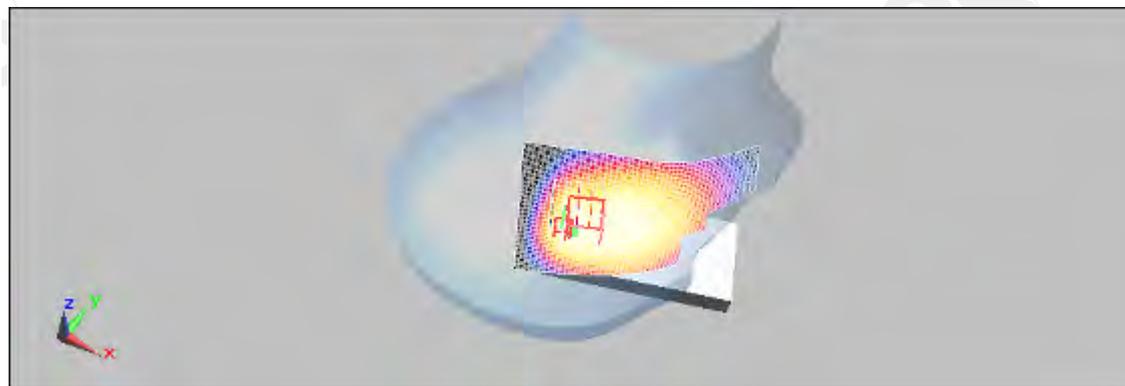
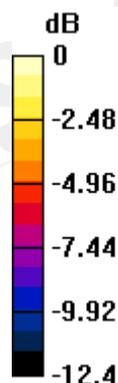
RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$,
 $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 18 V/m; Power Drift = -0.083 dB

Peak SAR (extrapolated) = 0.522 W/kg

SAR(1 g) = 0.283 mW/g; SAR(10 g) = 0.206 mW/g

Maximum value of SAR (measured) = 0.313 mW/g



0 dB = 0.313mW/g

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Date: 2010/4/3

RE Tilt_CH190

DUT: PB99220;

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium: Head 900 Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.88 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Tilt/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.304 mW/g

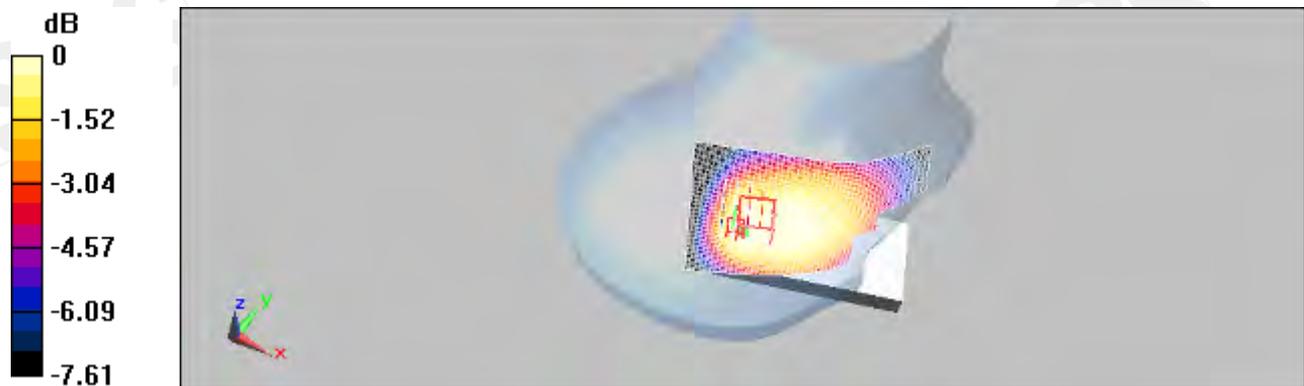
RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 17.1 V/m; Power Drift = 0.096 dB

Peak SAR (extrapolated) = 0.360 W/kg

SAR(1 g) = 0.291 mW/g; SAR(10 g) = 0.224 mW/g

Maximum value of SAR (measured) = 0.305 mW/g



0 dB = 0.305mW/g

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Date: 2010/4/3

RE Tilt_CH251

DUT: PB99220;

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3
Medium: Head 900 Medium parameters used: $f = 849$ MHz; $\sigma = 0.894$ mho/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³
Phantom section: Right Section

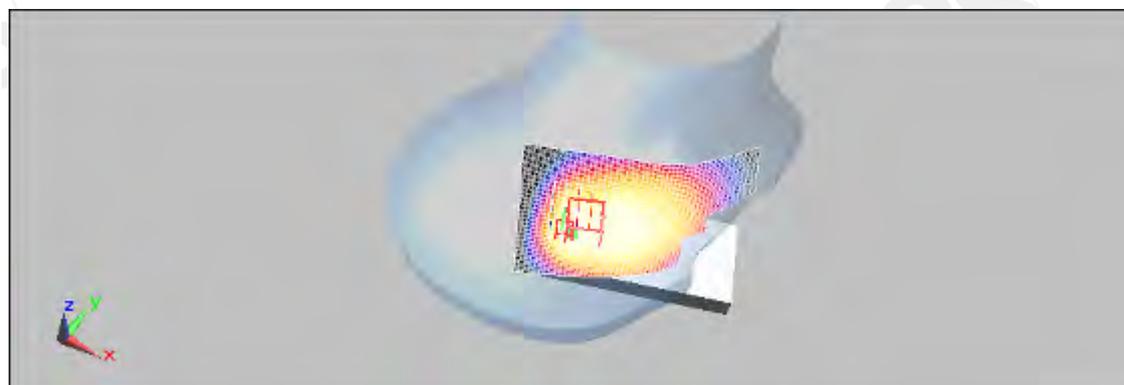
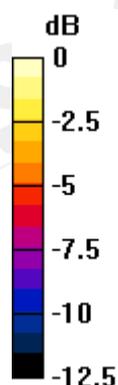
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.254 mW/g

RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 15.4 V/m; Power Drift = 0.094 dB
Peak SAR (extrapolated) = 0.390 W/kg

SAR(1 g) = 0.218 mW/g; SAR(10 g) = 0.162 mW/g
Maximum value of SAR (measured) = 0.241 mW/g



0 dB = 0.241mW/g

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Date: 2010/4/3

LE Tilt_CH128

DUT: PB99220;

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3
Medium: Head 900 Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.87$ mho/m;
 $\epsilon_r = 40.6$; $\rho = 1000$ kg/m³
Phantom section: Left Section

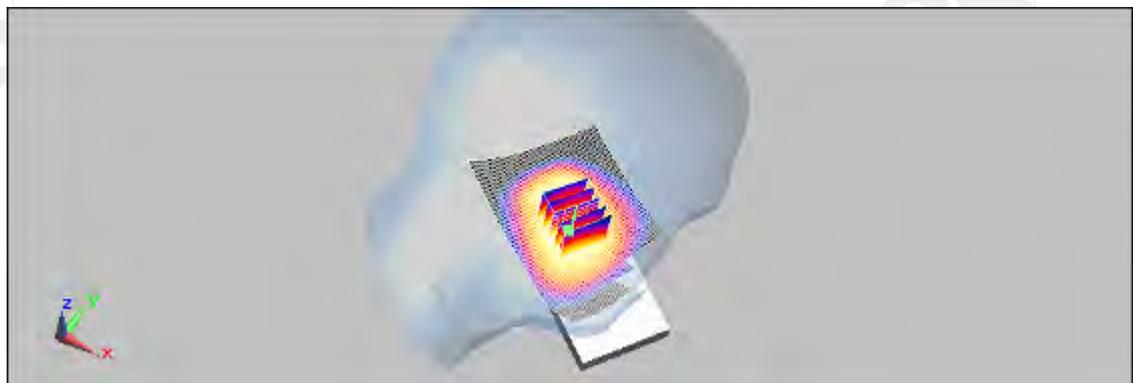
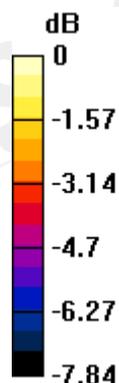
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.324 mW/g

LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.2 V/m; Power Drift = 0.020 dB
Peak SAR (extrapolated) = 0.391 W/kg

SAR(1 g) = 0.308 mW/g; SAR(10 g) = 0.238 mW/g
Maximum value of SAR (measured) = 0.322 mW/g



0 dB = 0.322mW/g

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Date: 2010/4/3

LE Tilt_CH190

DUT: PB99220;

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3
Medium: Head 900 Medium parameters used: $f = 837$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 40.4$; $\rho = 1000$ kg/m³
Phantom section: Left Section

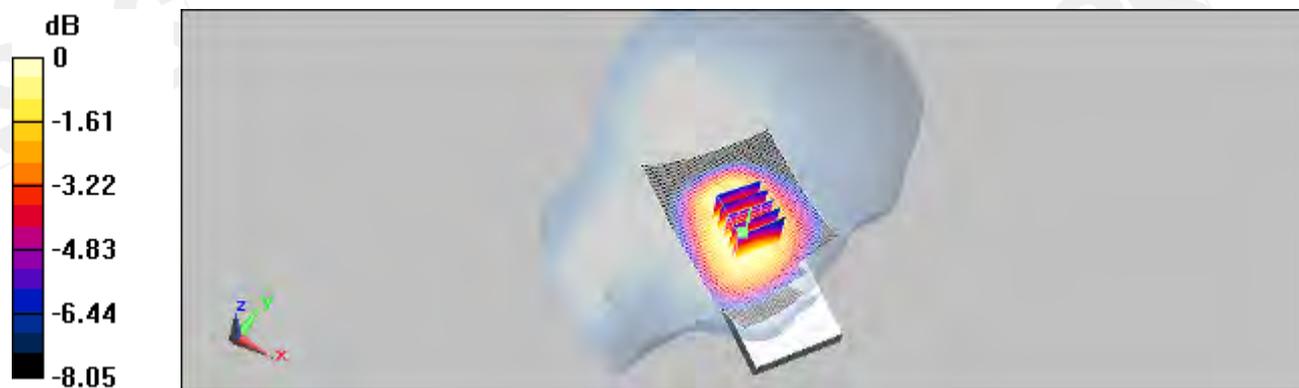
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.304 mW/g

LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17.3 V/m; Power Drift = 0.091 dB
Peak SAR (extrapolated) = 0.361 W/kg

SAR(1 g) = 0.290 mW/g; SAR(10 g) = 0.223 mW/g
Maximum value of SAR (measured) = 0.304 mW/g



0 dB = 0.304mW/g

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Date: 2010/4/3

LE Tilt_CH251

DUT: PB99220;

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3
Medium: Head 900 Medium parameters used: $f = 849$ MHz; $\sigma = 0.894$ mho/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³
Phantom section: Left Section

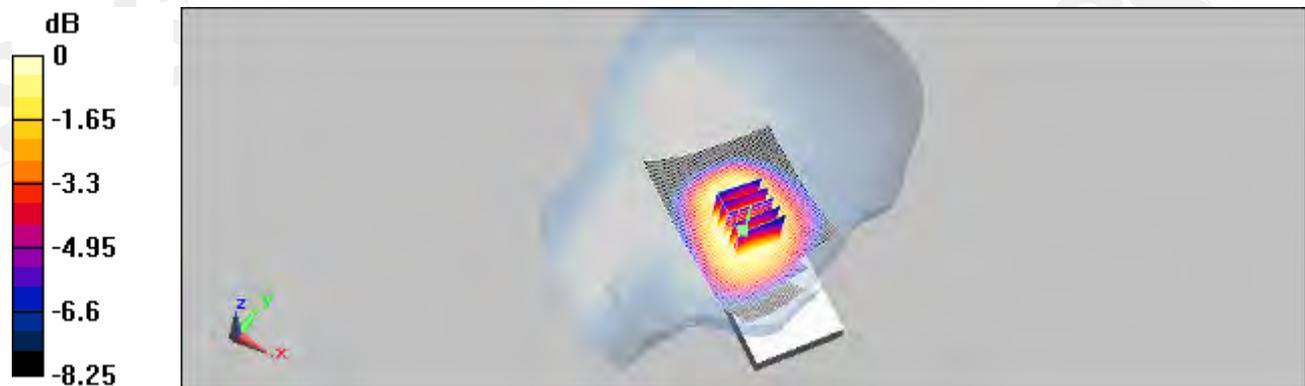
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.242 mW/g

LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 15.2 V/m; Power Drift = 0.021 dB
Peak SAR (extrapolated) = 0.292 W/kg

SAR(1 g) = 0.232 mW/g; SAR(10 g) = 0.177 mW/g
Maximum value of SAR (measured) = 0.243 mW/g



0 dB = 0.243mW/g

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Date: 2010/4/3

BODY_CH128

DUT: PB99220;

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:4
Medium: BODY 900 Medium parameters used (interpolated): $f = 824.2 \text{ MHz}$; $\sigma = 0.989 \text{ mho/m}$; $\epsilon_r = 54.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

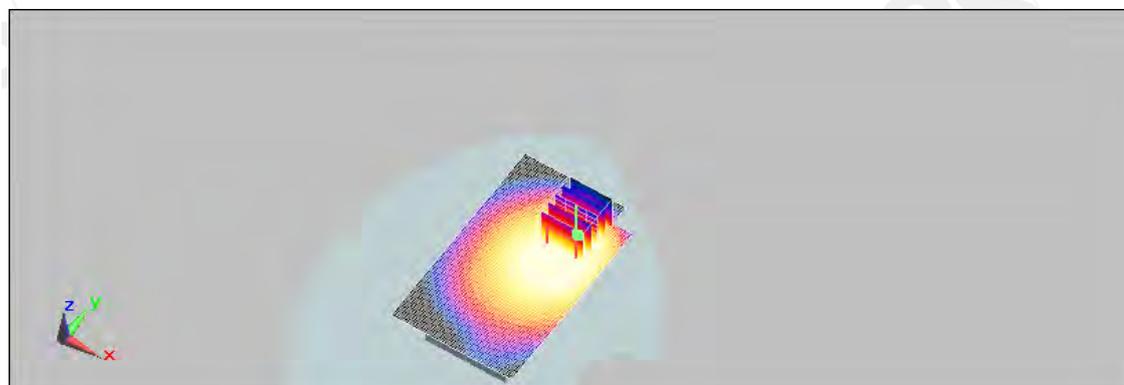
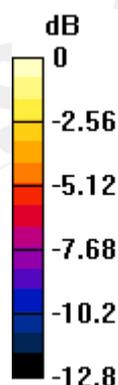
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.81, 5.81, 5.81); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.481 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 11.5 V/m; Power Drift = -0.163 dB
Peak SAR (extrapolated) = 0.603 W/kg

SAR(1 g) = 0.407 mW/g; SAR(10 g) = 0.281 mW/g
Maximum value of SAR (measured) = 0.441 mW/g



0 dB = 0.441mW/g

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Date: 2010/4/3

BODY_CH190

DUT: PB99220;

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:4
Medium: BODY 900 Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 1 \text{ mho/m}$; $\epsilon_r = 54$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

- Probe: ES3DV3 - SN3172; ConvF(5.81, 5.81, 5.81); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (interpolated) = 0.537 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.9 V/m; Power Drift = 0.121 dB

Peak SAR (extrapolated) = 0.689 W/kg

SAR(1 g) = 0.512 mW/g; SAR(10 g) = 0.368 mW/g

Maximum value of SAR (measured) = 0.540 mW/g

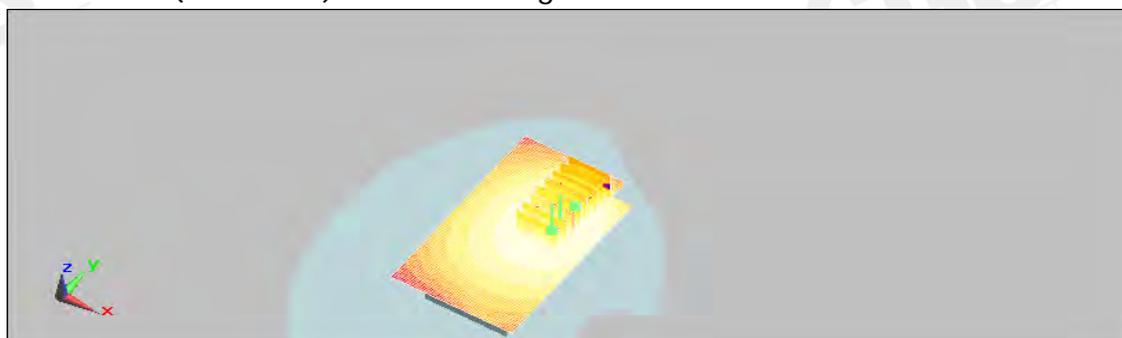
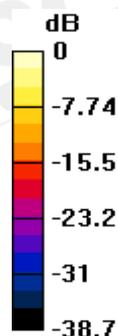
BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.9 V/m; Power Drift = 0.121 dB

Peak SAR (extrapolated) = 0.652 W/kg

SAR(1 g) = 0.454 mW/g; SAR(10 g) = 0.320 mW/g

Maximum value of SAR (measured) = 0.493 mW/g



0 dB = 0.493mW/g

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Date: 2010/4/3

BODY_CH251

DUT: PB99220;

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:4
Medium: BODY 900 Medium parameters used: $f = 849 \text{ MHz}$; $\sigma = 1.02 \text{ mho/m}$; $\epsilon_r = 53.8$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

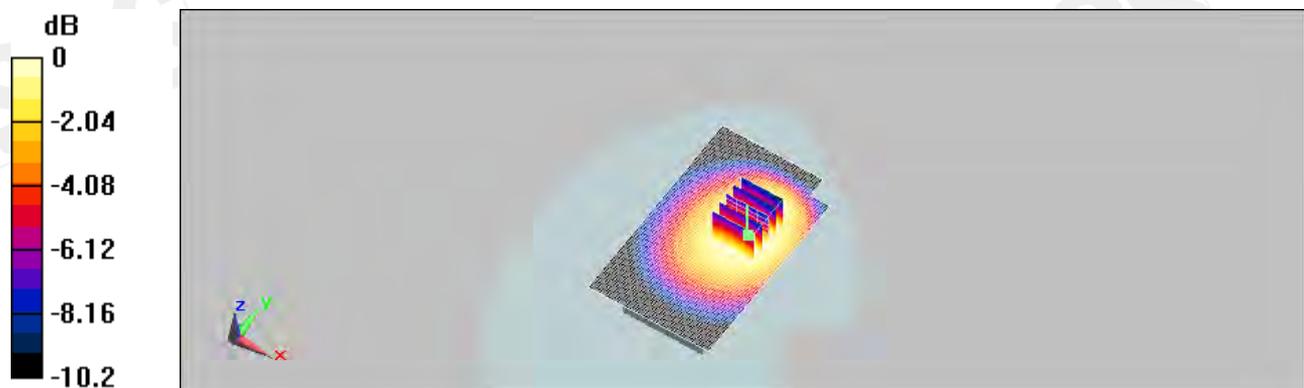
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.81, 5.81, 5.81); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.490 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 12.1 V/m; Power Drift = 0.039 dB
Peak SAR (extrapolated) = 0.620 W/kg

SAR(1 g) = 0.466 mW/g; SAR(10 g) = 0.338 mW/g
Maximum value of SAR (measured) = 0.492 mW/g



0 dB = 0.492mW/g

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Date: 2010/4/3

BODY_CH190_ repeated for EUT front to phantom

DUT: PB99220;

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:4
Medium: BODY 900 Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 1 \text{ mho/m}$; $\epsilon_r = 54$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

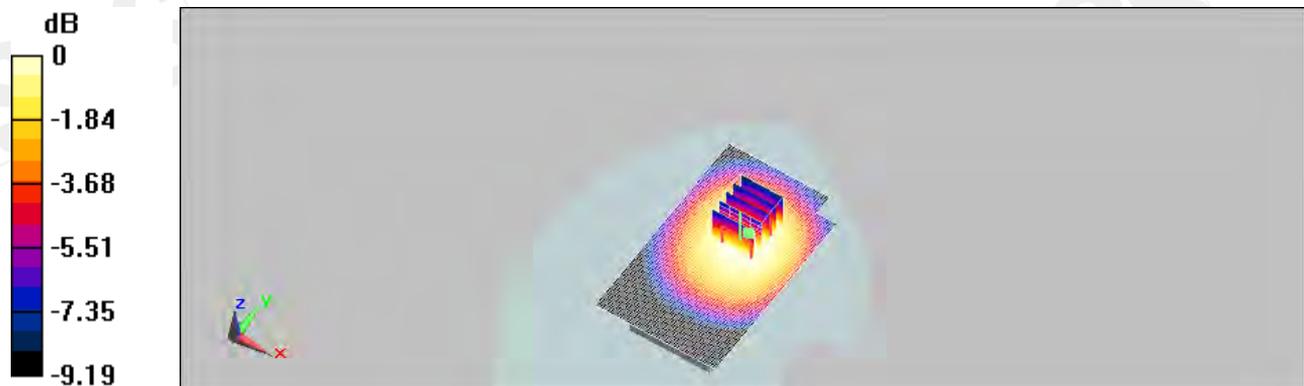
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.81, 5.81, 5.81); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.374 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 10.1 V/m; Power Drift = -0.125 dB
Peak SAR (extrapolated) = 0.446 W/kg

SAR(1 g) = 0.351 mW/g; SAR(10 g) = 0.264 mW/g
Maximum value of SAR (measured) = 0.367 mW/g



0 dB = 0.367mW/g

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Date: 2010/4/3

BODY_CH190_repeated with Memory card

DUT: PB99220;

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:4

Medium: BODY 900 Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 1 \text{ mho/m}$; $\epsilon_r = 54$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

- Probe: ES3DV3 - SN3172; ConvF(5.81, 5.81, 5.81); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (interpolated) = 0.517 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.7 V/m; Power Drift = -0.173 dB

Peak SAR (extrapolated) = 0.676 W/kg

SAR(1 g) = 0.486 mW/g; SAR(10 g) = 0.347 mW/g

Maximum value of SAR (measured) = 0.514 mW/g

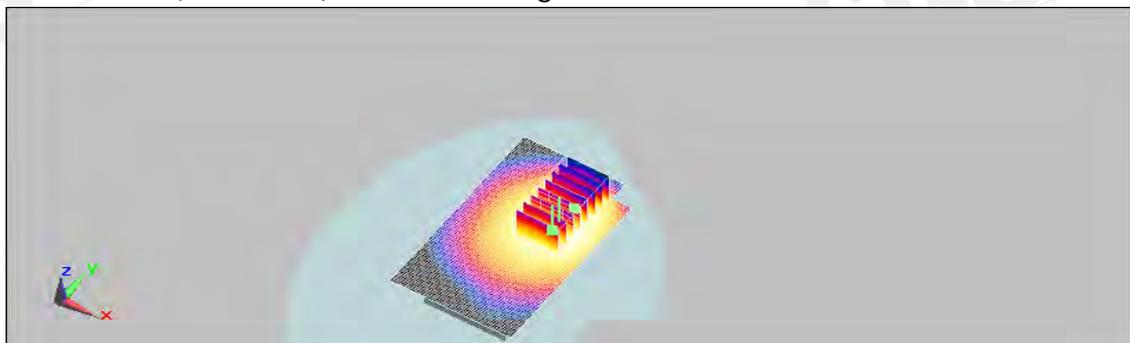
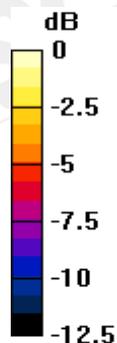
BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 1: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.7 V/m; Power Drift = -0.173 dB

Peak SAR (extrapolated) = 0.661 W/kg

SAR(1 g) = 0.446 mW/g; SAR(10 g) = 0.312 mW/g

Maximum value of SAR (measured) = 0.492 mW/g



0 dB = 0.492mW/g

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Date: 2010/4/3

BODY_CH190_repeated with Merry headset

DUT: PB99220;

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:4
Medium: BODY 900 Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 1 \text{ mho/m}$; $\epsilon_r = 54$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.81, 5.81, 5.81); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.617 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$,
 $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 13.3 V/m; Power Drift = 0.030 dB
Peak SAR (extrapolated) = 0.763 W/kg

SAR(1 g) = 0.587 mW/g; SAR(10 g) = 0.431 mW/g
Maximum value of SAR (measured) = 0.626 mW/g



0 dB = 0.626mW/g

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Date: 2010/4/3

BODY_CH190_repeated with HT Energy Battery

DUT: PB99220;

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:4
Medium: BODY 900 Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 1 \text{ mho/m}$; $\epsilon_r = 54$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

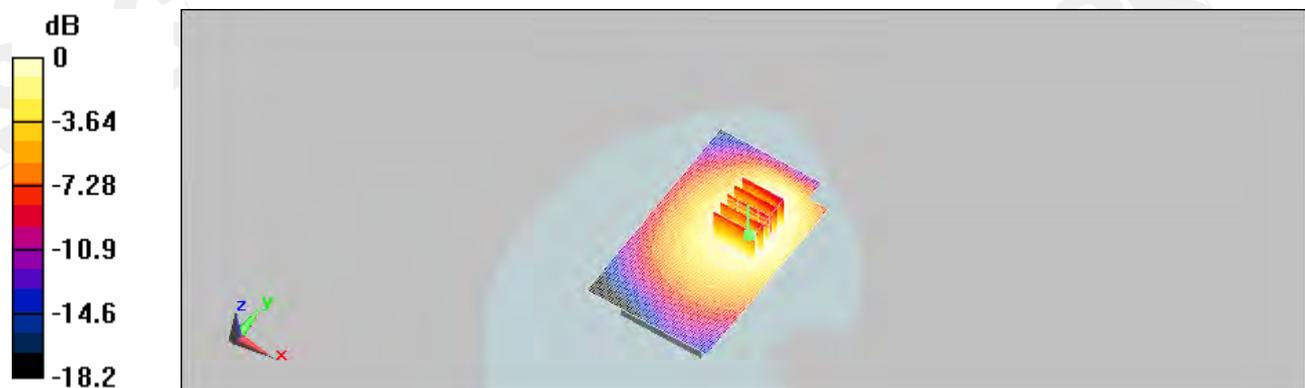
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.81, 5.81, 5.81); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.481 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$,
 $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 10.5 V/m; Power Drift = -0.038 dB
Peak SAR (extrapolated) = 0.662 W/kg

SAR(1 g) = 0.469 mW/g; SAR(10 g) = 0.321 mW/g
Maximum value of SAR (measured) = 0.482 mW/g



0 dB = 0.482mW/g

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Date: 2010/4/3

BODY_CH190_repeated with EGPRS mode

DUT: PB99220;

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:4
Medium: BODY 900 Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 1 \text{ mho/m}$; $\epsilon_r = 54$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

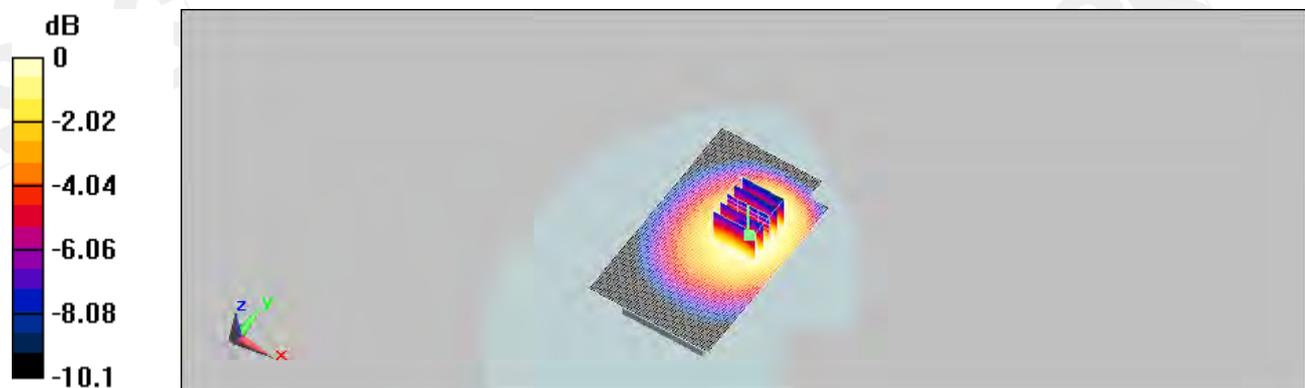
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.81, 5.81, 5.81); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.129 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$,
 $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 5.89 V/m; Power Drift = 0.094 dB
Peak SAR (extrapolated) = 0.165 W/kg

SAR(1 g) = 0.123 mW/g; SAR(10 g) = 0.088 mW/g
Maximum value of SAR (measured) = 0.129 mW/g



0 dB = 0.129mW/g

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Date: 2010/4/4

RE Cheek_CH512

DUT: PB99220;

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3
Medium: Head 1900 Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 39.5$; $\rho = 1000$ kg/m³
Phantom section: Right Section

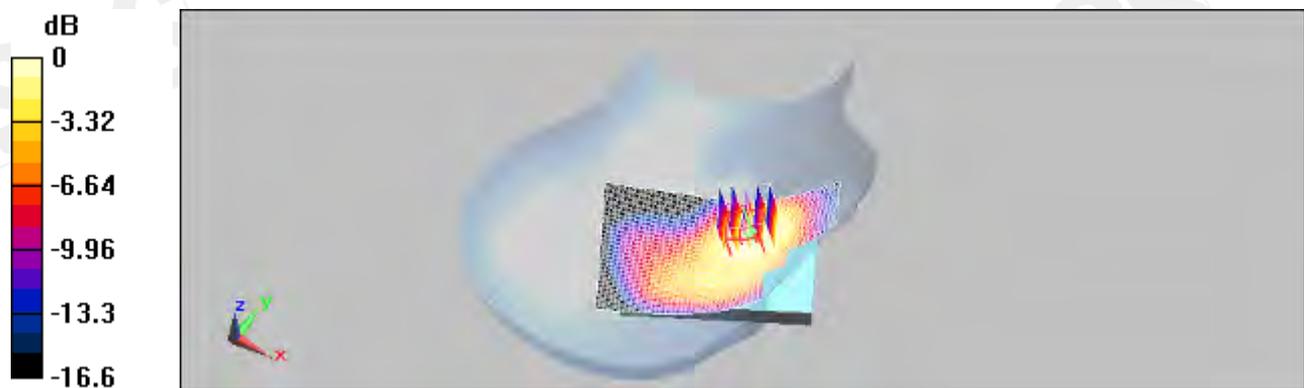
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.650 mW/g

RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.38 V/m; Power Drift = -0.161 dB
Peak SAR (extrapolated) = 0.955 W/kg

SAR(1 g) = 0.605 mW/g; SAR(10 g) = 0.374 mW/g
Maximum value of SAR (measured) = 0.656 mW/g



0 dB = 0.656mW/g

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Date: 2010/4/4

RE Cheek_CH661

DUT: PB99220;

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3
Medium: Head 1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.44 \text{ mho/m}$; $\epsilon_r = 39.4$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

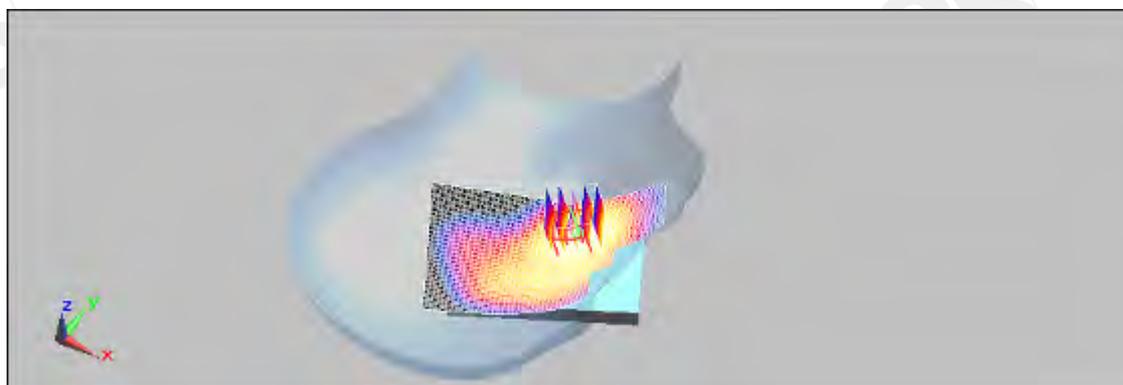
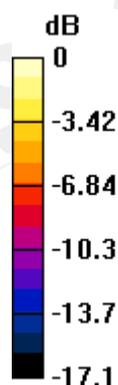
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Cheek/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.626 mW/g

RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 7.88 V/m; Power Drift = -0.072 dB
Peak SAR (extrapolated) = 0.937 W/kg

SAR(1 g) = 0.591 mW/g; SAR(10 g) = 0.364 mW/g
Maximum value of SAR (measured) = 0.636 mW/g



0 dB = 0.636mW/g

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Date: 2010/4/4

RE Cheek_CH810

DUT: PB99220;

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3
Medium: Head 1900 Medium parameters used: $f = 1910$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 39.4$; $\rho = 1000$ kg/m³
Phantom section: Right Section

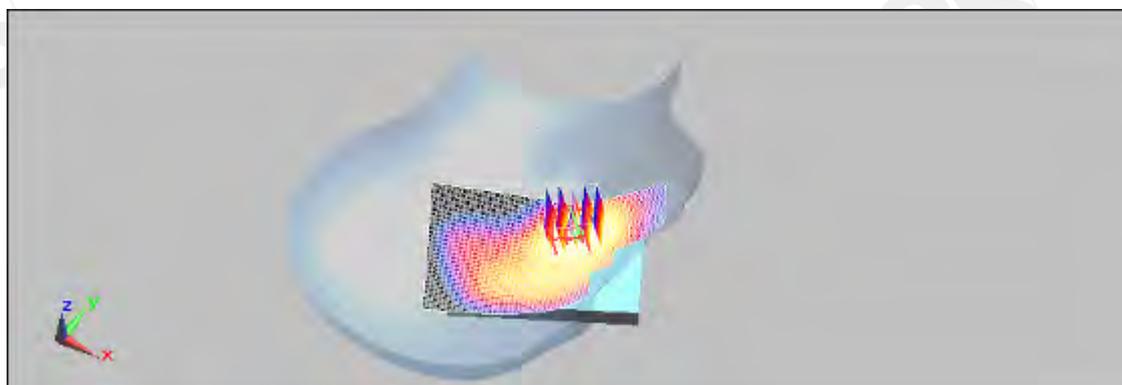
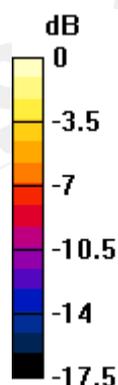
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.488 mW/g

RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.82 V/m; Power Drift = 0.055 dB
Peak SAR (extrapolated) = 0.735 W/kg

SAR(1 g) = 0.458 mW/g; SAR(10 g) = 0.278 mW/g
Maximum value of SAR (measured) = 0.496 mW/g



0 dB = 0.496mW/g

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Date: 2010/4/4

LE Cheek_CH512

DUT: PB99220;

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3
 Medium: Head 1900 Medium parameters used (interpolated): $f = 1850.2 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 39.5$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.534 mW/g

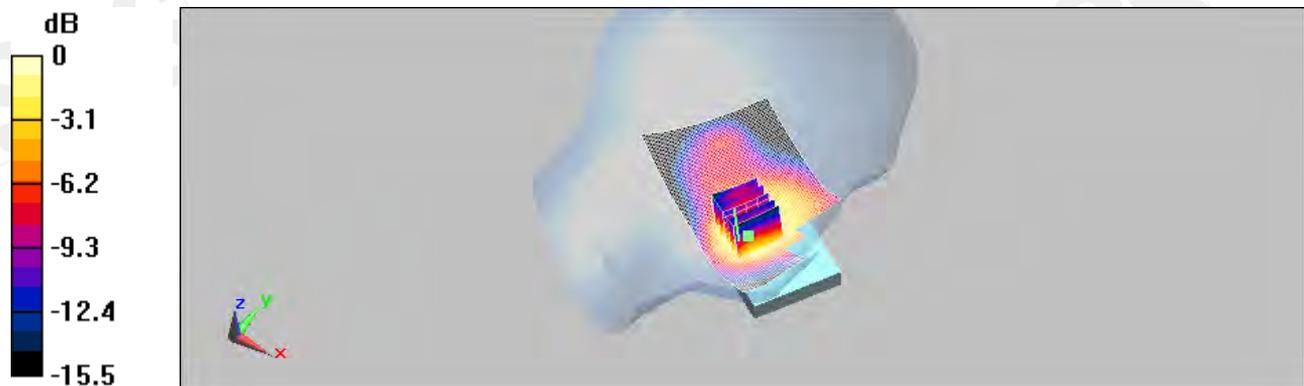
LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.8 V/m; Power Drift = -0.046 dB

Peak SAR (extrapolated) = 0.728 W/kg

SAR(1 g) = 0.489 mW/g; SAR(10 g) = 0.304 mW/g

Maximum value of SAR (measured) = 0.530 mW/g



0 dB = 0.530mW/g

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Date: 2010/4/4

LE Cheek_CH661

DUT: PB99220;

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3
Medium: Head 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 39.4$; $\rho = 1000$ kg/m³
Phantom section: Left Section

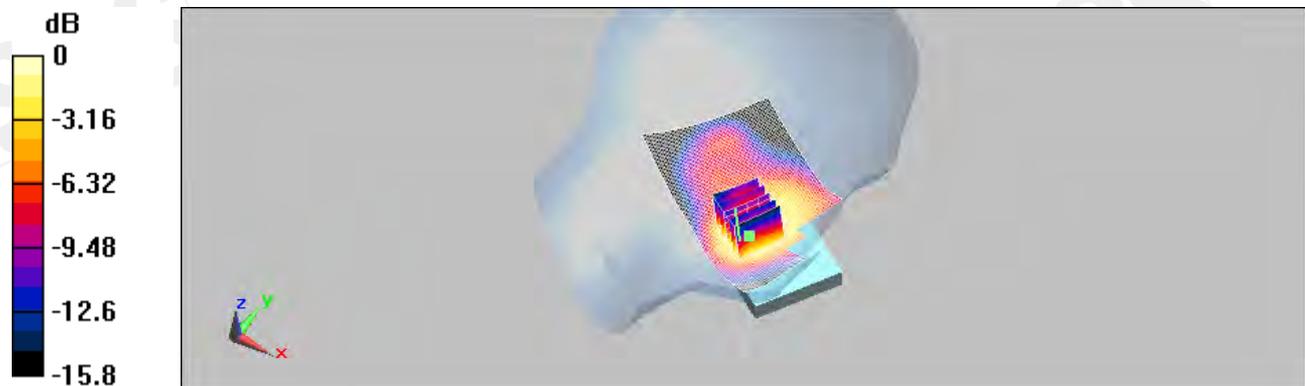
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.575 mW/g

LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.15 V/m; Power Drift = -0.015 dB
Peak SAR (extrapolated) = 0.782 W/kg

SAR(1 g) = 0.520 mW/g; SAR(10 g) = 0.322 mW/g
Maximum value of SAR (measured) = 0.561 mW/g



0 dB = 0.561mW/g

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Date: 2010/4/4

LE Cheek_CH810

DUT: PB99220;

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3
Medium: Head 1900 Medium parameters used: $f = 1910$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 39.4$; $\rho = 1000$ kg/m³
Phantom section: Left Section

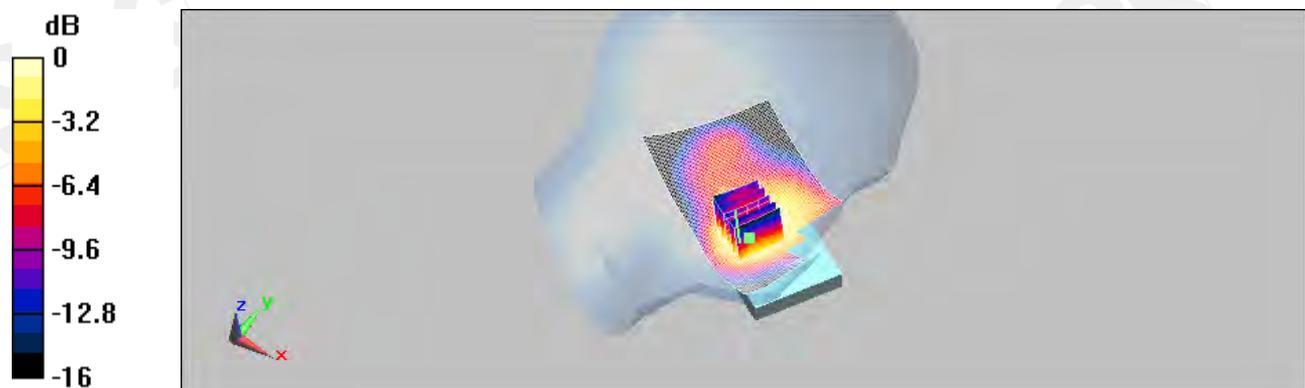
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.18 V/m; Power Drift = 0.070 dB
Peak SAR (extrapolated) = 0.594 W/kg

SAR(1 g) = 0.391 mW/g; SAR(10 g) = 0.240 mW/g
Maximum value of SAR (measured) = 0.420 mW/g



0 dB = 0.420mW/g

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Date: 2010/4/4

RE Tilt_CH512

DUT: PB99220;

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3
Medium: Head 1900 Medium parameters used (interpolated): $f = 1850.2 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 39.5$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

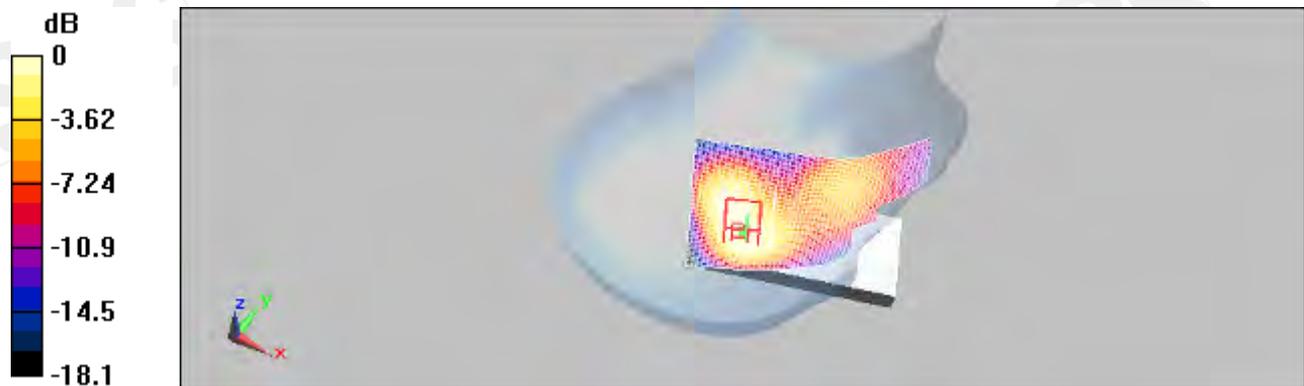
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Tilt/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.360 mW/g

RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 15.3 V/m; Power Drift = 0.024 dB
Peak SAR (extrapolated) = 0.505 W/kg

SAR(1 g) = 0.320 mW/g; SAR(10 g) = 0.198 mW/g
Maximum value of SAR (measured) = 0.336 mW/g



0 dB = 0.336mW/g

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Date: 2010/4/4

RE Tilt_CH661

DUT: PB99220;

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3
 Medium: Head 1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.44 \text{ mho/m}$; $\epsilon_r = 39.4$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Right Section

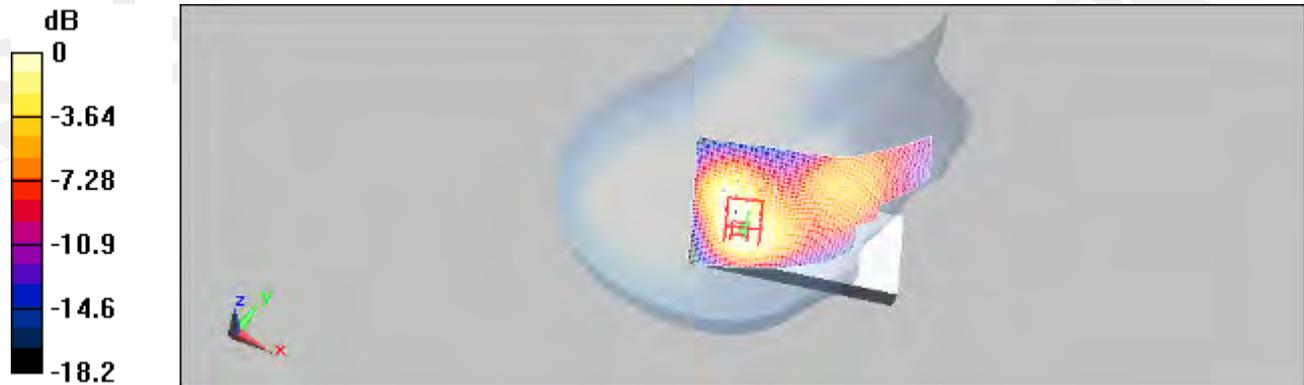
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Tilt/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.370 mW/g

RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 15.3 V/m; Power Drift = -0.010 dB
 Peak SAR (extrapolated) = 0.532 W/kg

SAR(1 g) = 0.331 mW/g; SAR(10 g) = 0.202 mW/g
 Maximum value of SAR (measured) = 0.351 mW/g



0 dB = 0.351mW/g

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Date: 2010/4/4

RE Tilt_CH810

DUT: PB99220;

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3
Medium: Head 1900 Medium parameters used: $f = 1910$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 39.4$; $\rho = 1000$ kg/m³
Phantom section: Right Section

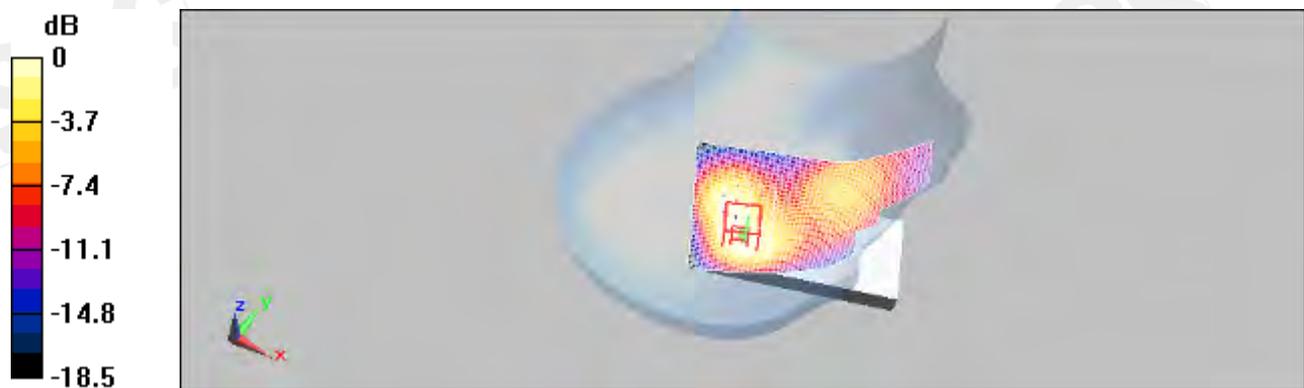
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.275 mW/g

RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.2 V/m; Power Drift = 0.084 dB
Peak SAR (extrapolated) = 0.404 W/kg

SAR(1 g) = 0.250 mW/g; SAR(10 g) = 0.151 mW/g
Maximum value of SAR (measured) = 0.265 mW/g



0 dB = 0.265mW/g

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Date: 2010/4/4

LE Tilt_CH512

DUT: PB99220;

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3
Medium: Head 1900 Medium parameters used (interpolated): $f = 1850.2 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 39.5$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

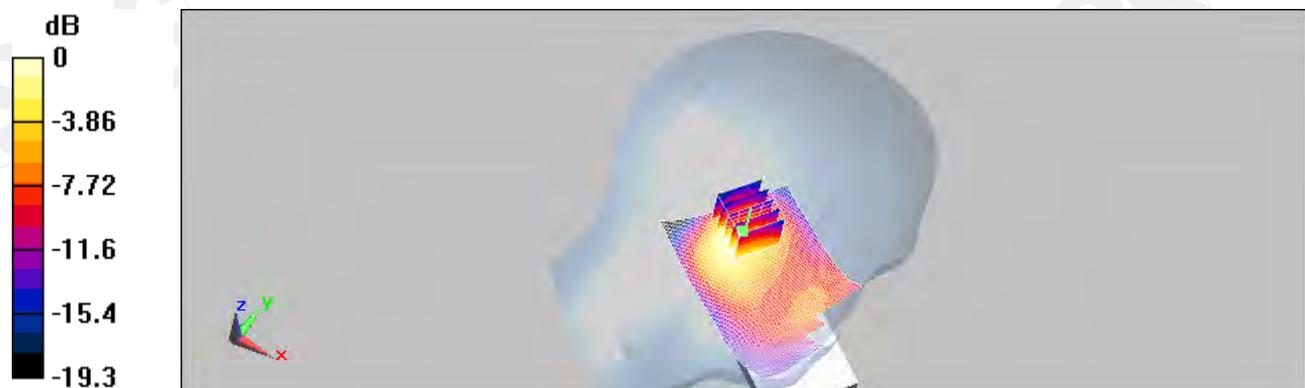
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Tilt/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.349 mW/g

LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$,
 $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 15.6 V/m; Power Drift = 0.023 dB
Peak SAR (extrapolated) = 0.512 W/kg

SAR(1 g) = 0.305 mW/g; SAR(10 g) = 0.172 mW/g
Maximum value of SAR (measured) = 0.345 mW/g



0 dB = 0.345mW/g

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Date: 2010/4/4

LE Tilt_CH661

DUT: PB99220;

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3
Medium: Head 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 39.4$; $\rho = 1000$ kg/m³
Phantom section: Left Section

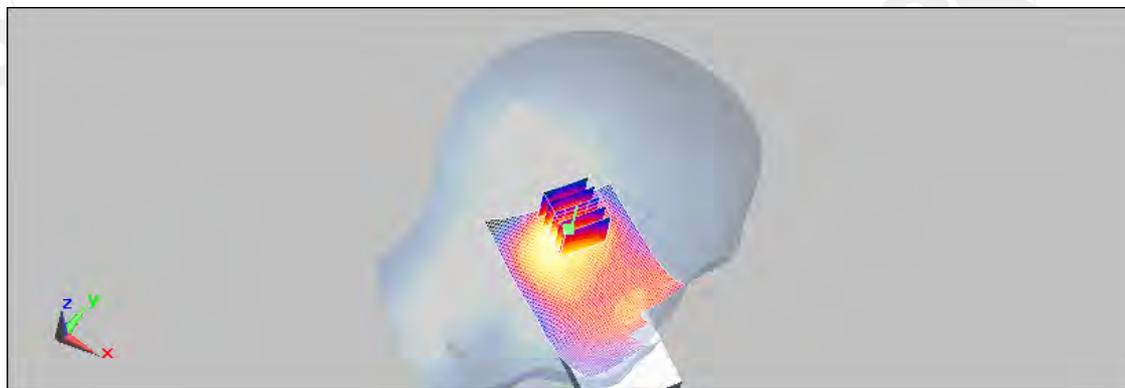
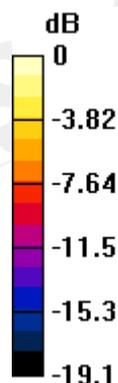
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.394 mW/g

LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 16.1 V/m; Power Drift = -0.00224 dB
Peak SAR (extrapolated) = 0.581 W/kg

SAR(1 g) = 0.339 mW/g; SAR(10 g) = 0.188 mW/g
Maximum value of SAR (measured) = 0.380 mW/g



0 dB = 0.380mW/g

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Date: 2010/4/4

LE Tilt_CH810

DUT: PB99220;

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3
Medium: Head 1900 Medium parameters used: $f = 1910$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 39.4$; $\rho = 1000$ kg/m³
Phantom section: Left Section

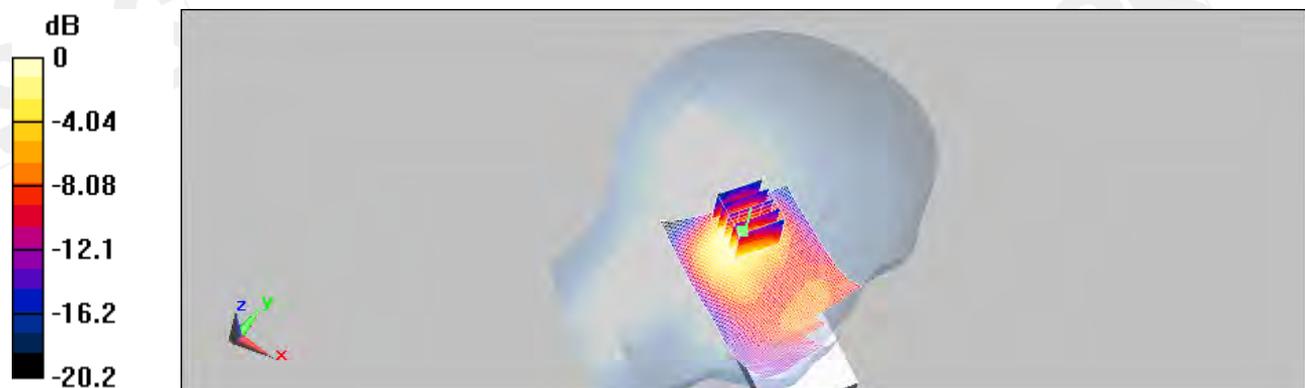
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.299 mW/g

LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14 V/m; Power Drift = -0.010 dB
Peak SAR (extrapolated) = 0.444 W/kg

SAR(1 g) = 0.256 mW/g; SAR(10 g) = 0.141 mW/g
Maximum value of SAR (measured) = 0.288 mW/g



0 dB = 0.288mW/g

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Date: 2010/4/4

BODY_CH512

DUT: PB99220;

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:4
Medium: BODY 1900 Medium parameters used (interpolated): $f = 1850.2 \text{ MHz}$; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_r = 55.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

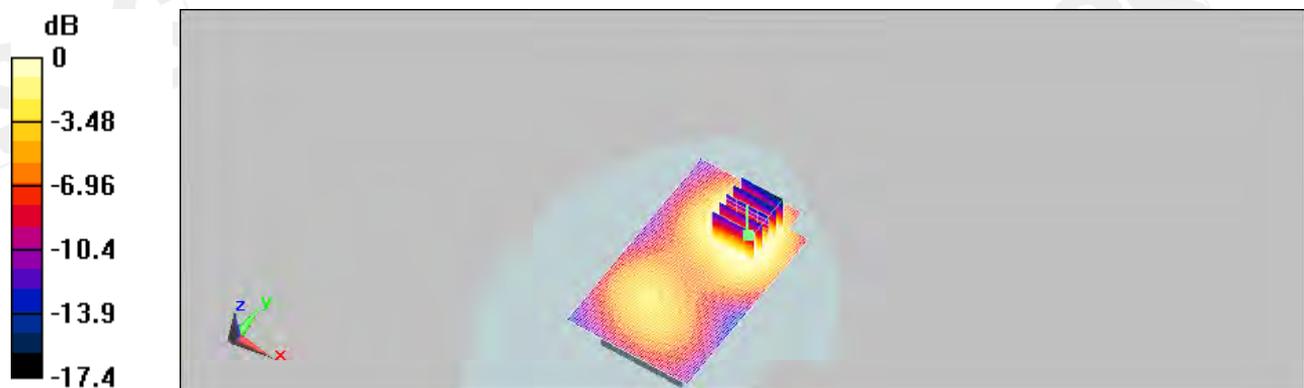
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.54, 4.54, 4.54); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.428 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 11.3 V/m; Power Drift = 0.019 dB
Peak SAR (extrapolated) = 0.643 W/kg

SAR(1 g) = 0.385 mW/g; SAR(10 g) = 0.237 mW/g
Maximum value of SAR (measured) = 0.410 mW/g



0 dB = 0.410mW/g

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Date: 2010/4/4

BODY_CH661

DUT: PB99220;

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:4
Medium: BODY 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 54.8$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

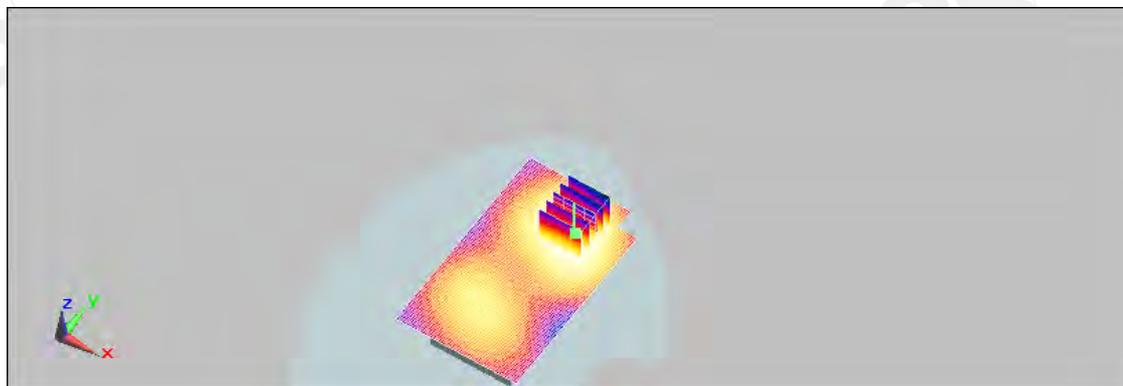
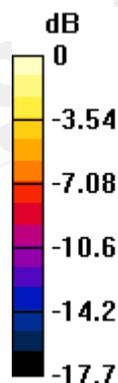
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.54, 4.54, 4.54); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.400 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.5 V/m; Power Drift = 0.013 dB
Peak SAR (extrapolated) = 0.599 W/kg

SAR(1 g) = 0.361 mW/g; SAR(10 g) = 0.223 mW/g
Maximum value of SAR (measured) = 0.380 mW/g



0 dB = 0.380mW/g

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Date: 2010/4/4

BODY_CH810

DUT: PB99220;

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:4
Medium: BODY 1900 Medium parameters used: $f = 1910$ MHz; $\sigma = 1.59$ mho/m; $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

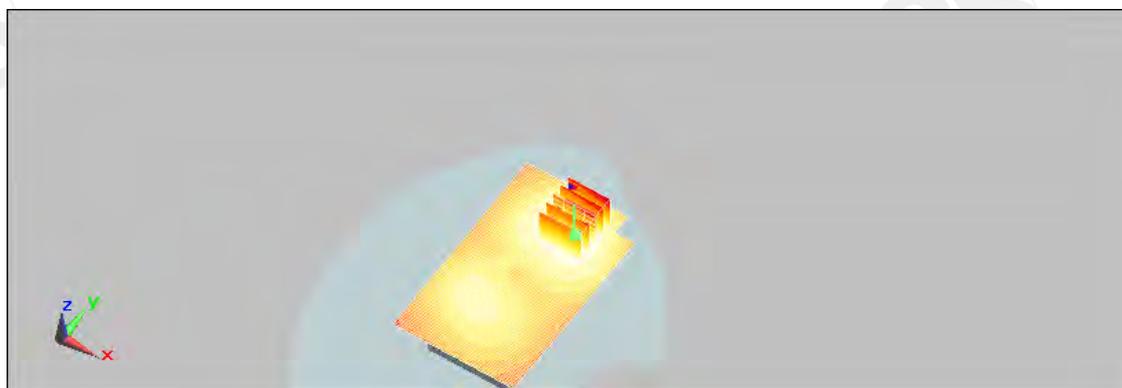
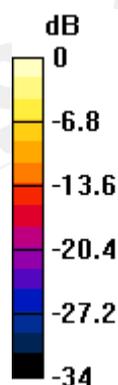
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.54, 4.54, 4.54); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.332 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.21 V/m; Power Drift = -0.010 dB
Peak SAR (extrapolated) = 0.495 W/kg

SAR(1 g) = 0.290 mW/g; SAR(10 g) = 0.175 mW/g
Maximum value of SAR (measured) = 0.310 mW/g



0 dB = 0.310mW/g

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Date: 2010/4/4

RE Cheek_CH9262

DUT: PB99220;

Communication System: WCDMA B2; Frequency: 1852.4 MHz; Duty Cycle: 1:1
Medium: Head 1900 Medium parameters used (interpolated): $f = 1852.4 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 39.5$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Cheek/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.917 mW/g

RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.1 V/m; Power Drift = 0.052 dB

Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 0.852 mW/g; SAR(10 g) = 0.533 mW/g

Maximum value of SAR (measured) = 0.916 mW/g

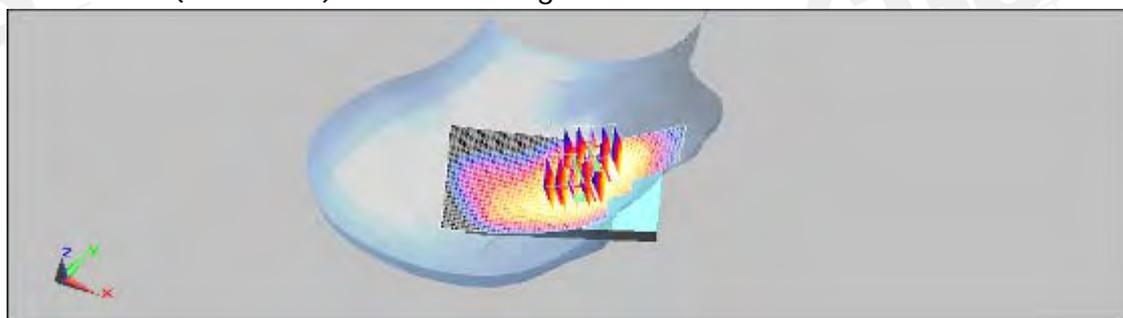
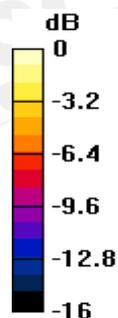
RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 1: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.1 V/m; Power Drift = 0.052 dB

Peak SAR (extrapolated) = 1 W/kg

SAR(1 g) = 0.651 mW/g; SAR(10 g) = 0.413 mW/g

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



0 dB = 0.788mW/g

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Date: 2010/4/4

RE Cheek_CH9400

DUT: PB99220;

Communication System: WCDMA B2; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: Head 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 39.4$; $\rho = 1000$ kg/m³
Phantom section: Right Section

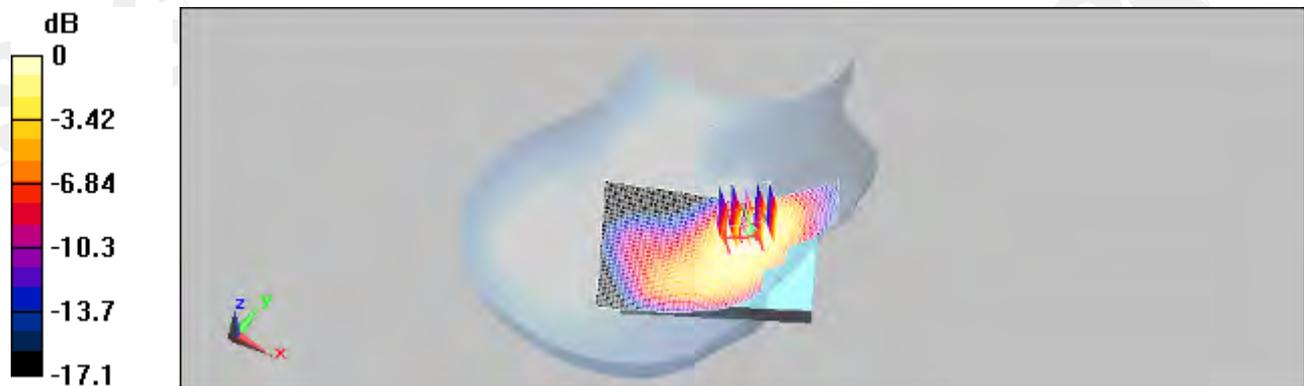
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.03 mW/g

RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.6 V/m; Power Drift = 0.073 dB
Peak SAR (extrapolated) = 1.5 W/kg

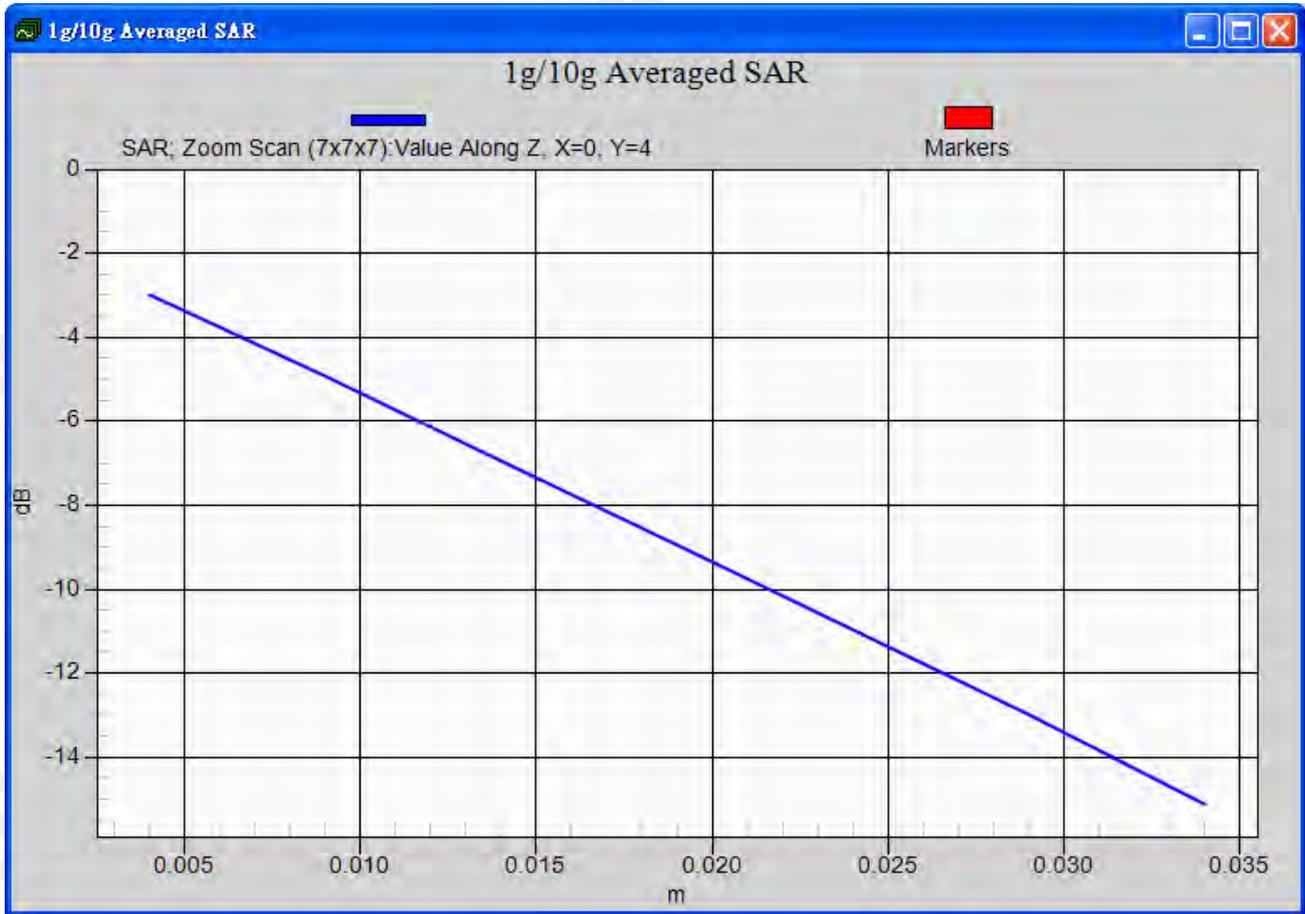
SAR(1 g) = 0.961 mW/g; SAR(10 g) = 0.597 mW/g
Maximum value of SAR (measured) = 1.04 mW/g



0 dB = 1.04mW/g

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Date: 2010/4/4

RE Cheek_CH9538

DUT: PB99220;

Communication System: WCDMA B2; Frequency: 1907.6 MHz; Duty Cycle: 1:1
Medium: Head 1900 Medium parameters used: $f = 1908$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 39.4$; $\rho = 1000$ kg/m³
Phantom section: Right Section

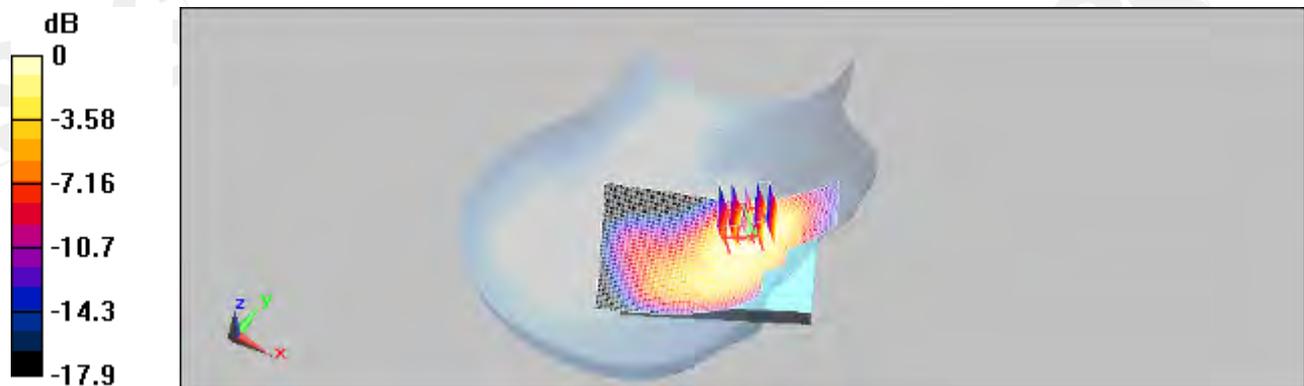
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.921 mW/g

RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.1 V/m; Power Drift = -0.00206 dB
Peak SAR (extrapolated) = 1.38 W/kg

SAR(1 g) = 0.866 mW/g; SAR(10 g) = 0.531 mW/g
Maximum value of SAR (measured) = 0.929 mW/g



0 dB = 0.929mW/g

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Date: 2010/4/4

RE Cheek_CH9400_repeated with Memory card

DUT: PB99220;

Communication System: WCDMA B2; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: Head 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 39.4$; $\rho = 1000$ kg/m³
Phantom section: Right Section

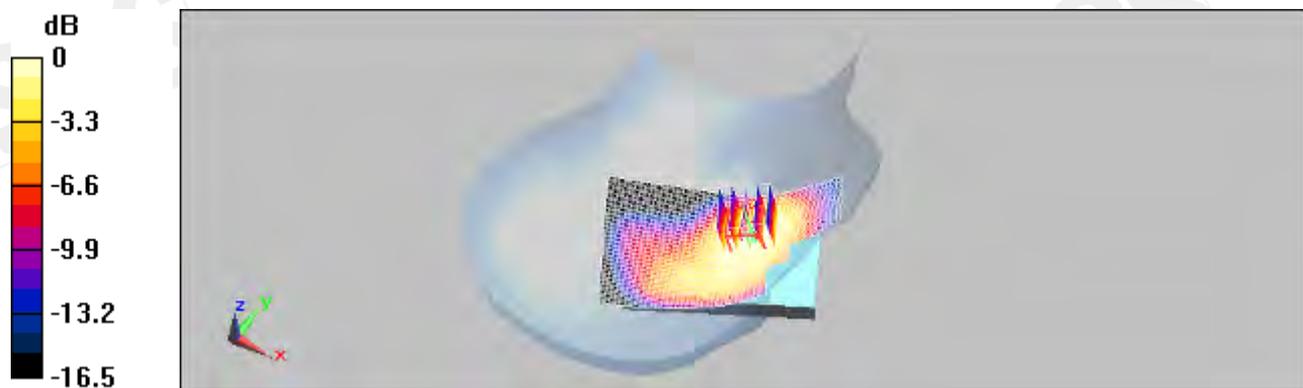
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.01 mW/g

RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.6 V/m; Power Drift = -0.00738 dB
Peak SAR (extrapolated) = 1.44 W/kg

SAR(1 g) = 0.921 mW/g; SAR(10 g) = 0.576 mW/g
Maximum value of SAR (measured) = 0.985 mW/g



0 dB = 0.985mW/g

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Date: 2010/4/4

RE Cheek_CH9400_repeated with HT Energy Battery

DUT: PB99220;

Communication System: WCDMA B2; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: Head 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 39.4$; $\rho = 1000$ kg/m³

Phantom section: Right Section

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (interpolated) = 0.937 mW/g

RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.3 V/m; Power Drift = 0.119 dB

Peak SAR (extrapolated) = 1.34 W/kg

SAR(1 g) = 0.870 mW/g; SAR(10 g) = 0.547 mW/g

Maximum value of SAR (measured) = 0.923 mW/g

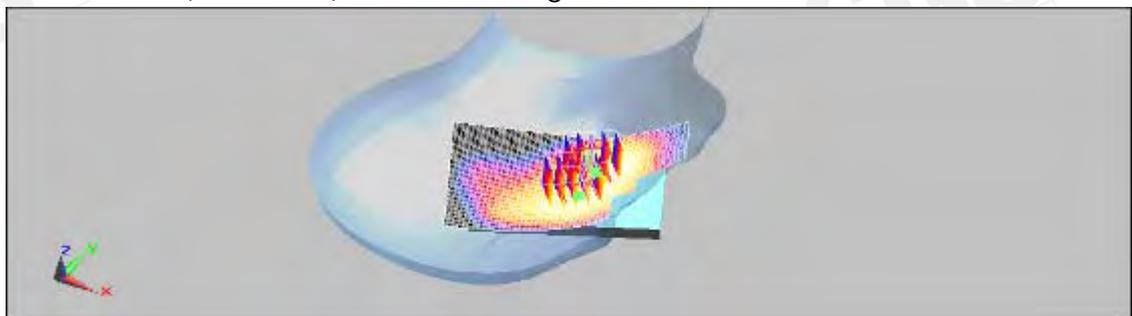
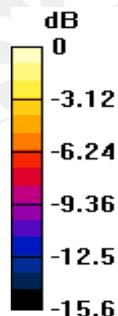
RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.3 V/m; Power Drift = 0.119 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.711 mW/g; SAR(10 g) = 0.455 mW/g

Maximum value of SAR (measured) = 0.833 mW/g



0 dB = 0.833mW/g

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Date: 2010/4/4

LE Cheek_CH9262

DUT: PB99220;

Communication System: WCDMA B2; Frequency: 1852.4 MHz; Duty Cycle: 1:1
Medium: Head 1900 Medium parameters used (interpolated): $f = 1852.4 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 39.5$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

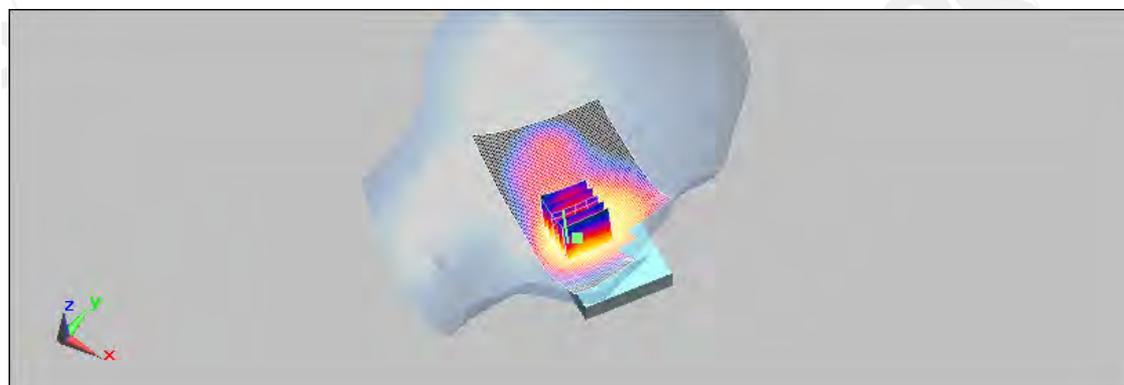
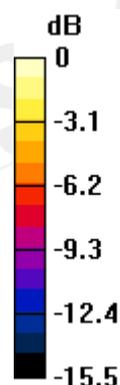
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.865 mW/g

LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 11.8 V/m; Power Drift = 0.052 dB
Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.840 mW/g; SAR(10 g) = 0.528 mW/g
Maximum value of SAR (measured) = 0.907 mW/g



0 dB = 0.907mW/g

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Date: 2010/4/4

LE Cheek_CH9400

DUT: PB99220;

Communication System: WCDMA B2; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: Head 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 39.4$; $\rho = 1000$ kg/m³
Phantom section: Left Section

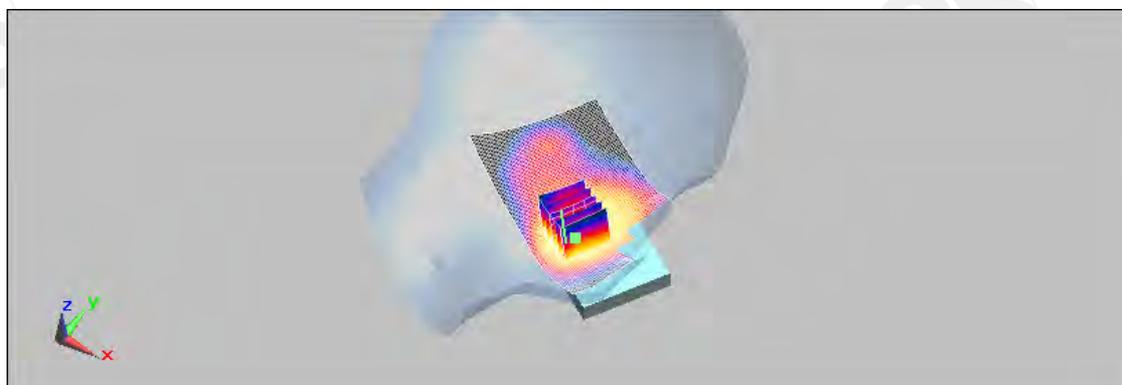
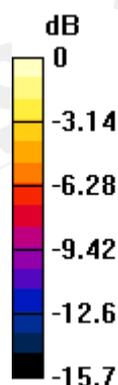
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.893 mW/g

LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.8 V/m; Power Drift = 0.051 dB
Peak SAR (extrapolated) = 1.28 W/kg

SAR(1 g) = 0.863 mW/g; SAR(10 g) = 0.541 mW/g
Maximum value of SAR (measured) = 0.927 mW/g



0 dB = 0.927mW/g

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Date: 2010/4/4

LE Cheek_CH9538

DUT: PB99220;

Communication System: WCDMA B2; Frequency: 1907.6 MHz; Duty Cycle: 1:1
Medium: Head 1900 Medium parameters used: $f = 1908$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 39.4$; $\rho = 1000$ kg/m³
Phantom section: Left Section

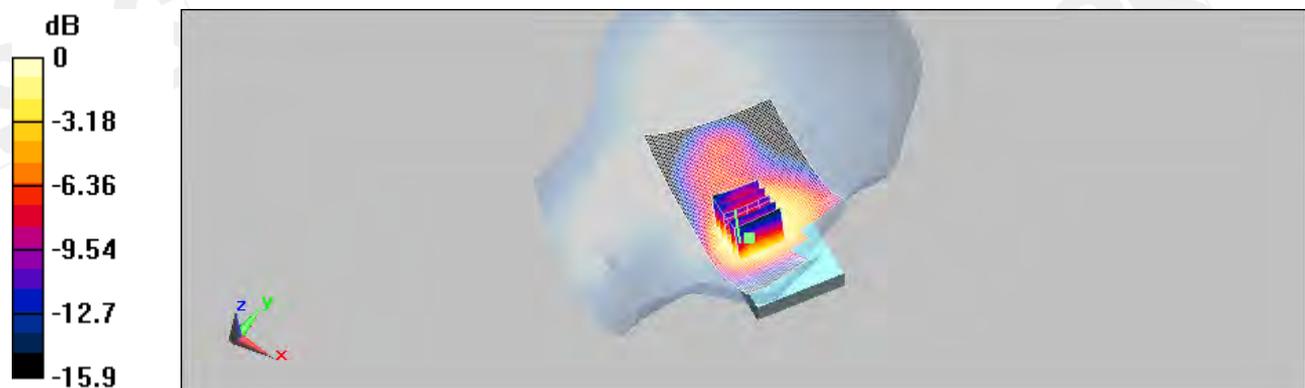
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.801 mW/g

LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11 V/m; Power Drift = 0.076 dB
Peak SAR (extrapolated) = 1.15 W/kg

SAR(1 g) = 0.761 mW/g; SAR(10 g) = 0.473 mW/g
Maximum value of SAR (measured) = 0.815 mW/g



0 dB = 0.815mW/g

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Date: 2010/4/4

RE Tilt_CH9262

DUT: PB99220;

Communication System: WCDMA B2; Frequency: 1852.4 MHz; Duty Cycle: 1:1
Medium: Head 1900 Medium parameters used (interpolated): $f = 1852.4 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 39.5$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Tilt/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.587 mW/g

RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 19.3 V/m; Power Drift = -0.099 dB
Peak SAR (extrapolated) = 0.822 W/kg

SAR(1 g) = 0.512 mW/g; SAR(10 g) = 0.315 mW/g
Maximum value of SAR (measured) = 0.534 mW/g



0 dB = 0.534mW/g

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Date: 2010/4/4

RE Tilt_CH9400

DUT: PB99220;

Communication System: WCDMA B2; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: Head 1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.44 \text{ mho/m}$; $\epsilon_r = 39.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Tilt/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.623 mW/g

RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 19.3 V/m; Power Drift = 0.025 dB

Peak SAR (extrapolated) = 0.872 W/kg

SAR(1 g) = 0.532 mW/g; SAR(10 g) = 0.324 mW/g

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

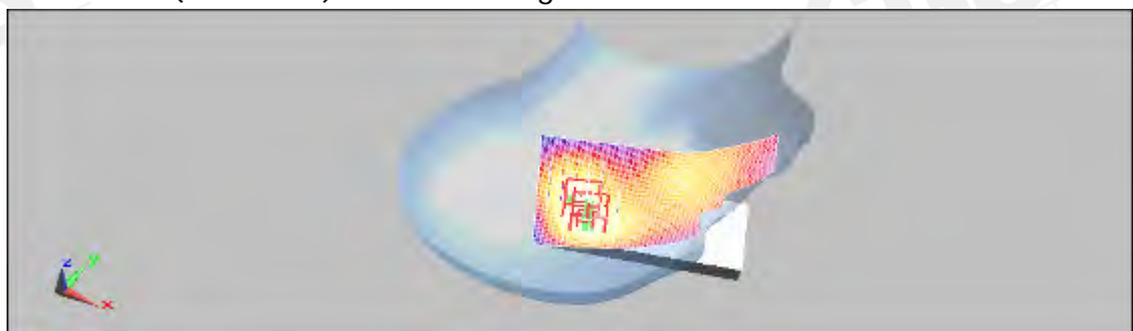
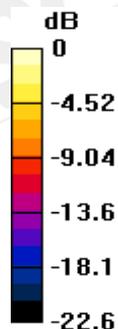
RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 1: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 19.3 V/m; Power Drift = 0.025 dB

Peak SAR (extrapolated) = 0.867 W/kg

SAR(1 g) = 0.510 mW/g; SAR(10 g) = 0.307 mW/g

Maximum value of SAR (measured) = 0.555 mW/g



0 dB = 0.555mW/g

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Date: 2010/4/4

RE Tilt_CH9538

DUT: PB99220;

Communication System: WCDMA B2; Frequency: 1907.6 MHz; Duty Cycle: 1:1
 Medium: Head 1900 Medium parameters used: $f = 1908 \text{ MHz}$; $\sigma = 1.47 \text{ mho/m}$; $\epsilon_r = 39.4$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Right Section

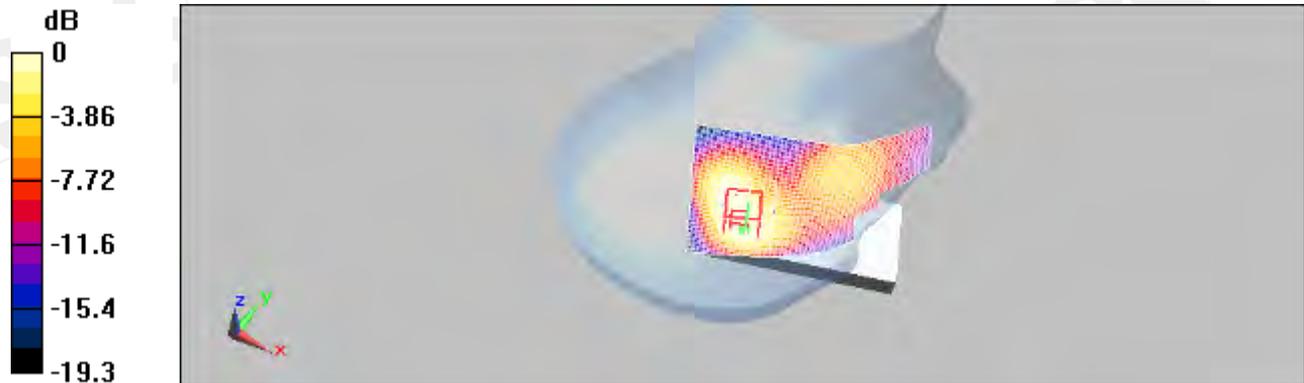
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Tilt/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.543 mW/g

RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 18.3 V/m; Power Drift = -0.037 dB
 Peak SAR (extrapolated) = 0.757 W/kg

SAR(1 g) = 0.477 mW/g; SAR(10 g) = 0.293 mW/g
 Maximum value of SAR (measured) = 0.500 mW/g



0 dB = 0.500mW/g

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Date: 2010/4/4

LE Tilt_CH9262

DUT: PB99220;

Communication System: WCDMA B2; Frequency: 1852.4 MHz; Duty Cycle: 1:1
Medium: Head 1900 Medium parameters used (interpolated): $f = 1852.4 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 39.5$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

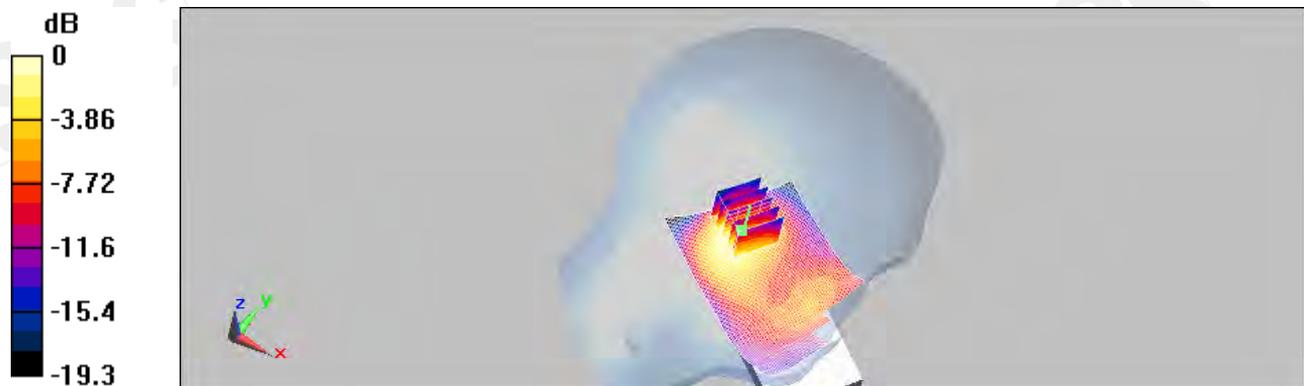
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Tilt/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.624 mW/g

LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 20.8 V/m; Power Drift = 0.000577 dB
Peak SAR (extrapolated) = 0.879 W/kg

SAR(1 g) = 0.527 mW/g; SAR(10 g) = 0.300 mW/g
Maximum value of SAR (measured) = 0.585 mW/g



0 dB = 0.585mW/g

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Date: 2010/4/4

LE Tilt_CH9400

DUT: PB99220;

Communication System: WCDMA B2; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: Head 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 39.4$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.628 mW/g

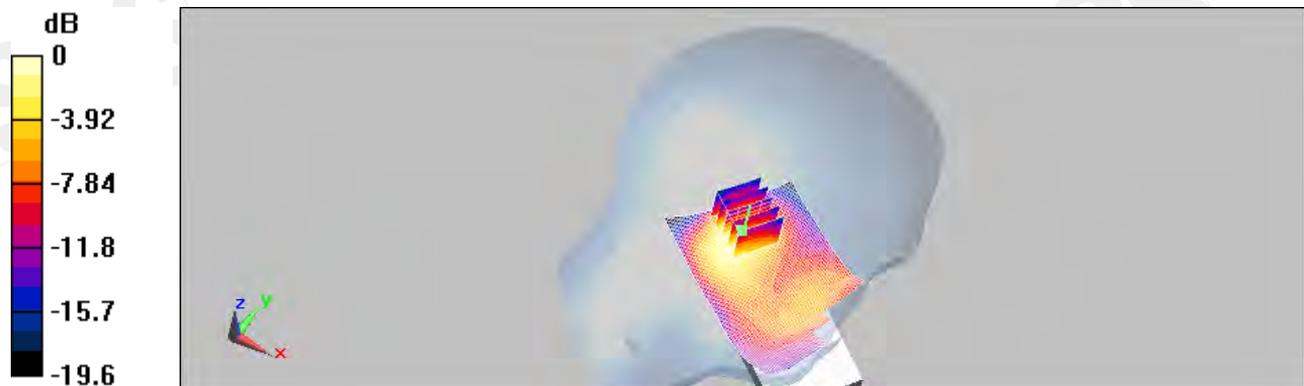
LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.6 V/m; Power Drift = 0.104 dB

Peak SAR (extrapolated) = 0.941 W/kg

SAR(1 g) = 0.556 mW/g; SAR(10 g) = 0.311 mW/g

Maximum value of SAR (measured) = 0.615 mW/g



0 dB = 0.615mW/g

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Date: 2010/4/4

LE Tilt_CH9538

DUT: PB99220;

Communication System: WCDMA B2; Frequency: 1907.6 MHz; Duty Cycle: 1:1
Medium: Head 1900 Medium parameters used: $f = 1908$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 39.4$; $\rho = 1000$ kg/m³
Phantom section: Left Section

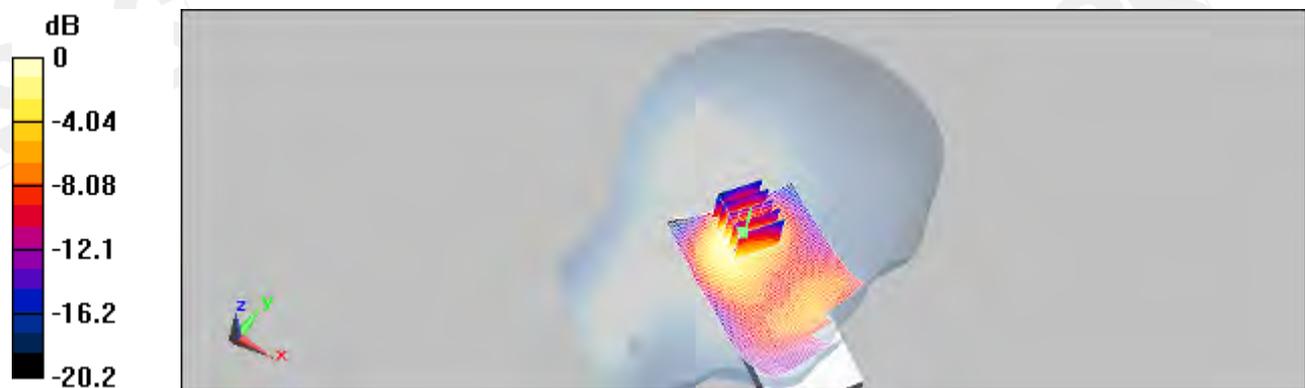
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.86, 4.86, 4.86); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.591 mW/g

LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 19.7 V/m; Power Drift = -0.056 dB
Peak SAR (extrapolated) = 0.845 W/kg

SAR(1 g) = 0.494 mW/g; SAR(10 g) = 0.272 mW/g
Maximum value of SAR (measured) = 0.543 mW/g



0 dB = 0.543mW/g

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Date: 2010/4/4

BODY_CH9262

DUT: PB99220;

Communication System: WCDMA B2; Frequency: 1852.4 MHz; Duty Cycle: 1:1
Medium: BODY 1900 Medium parameters used (interpolated): $f = 1852.4 \text{ MHz}$; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_r = 55.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

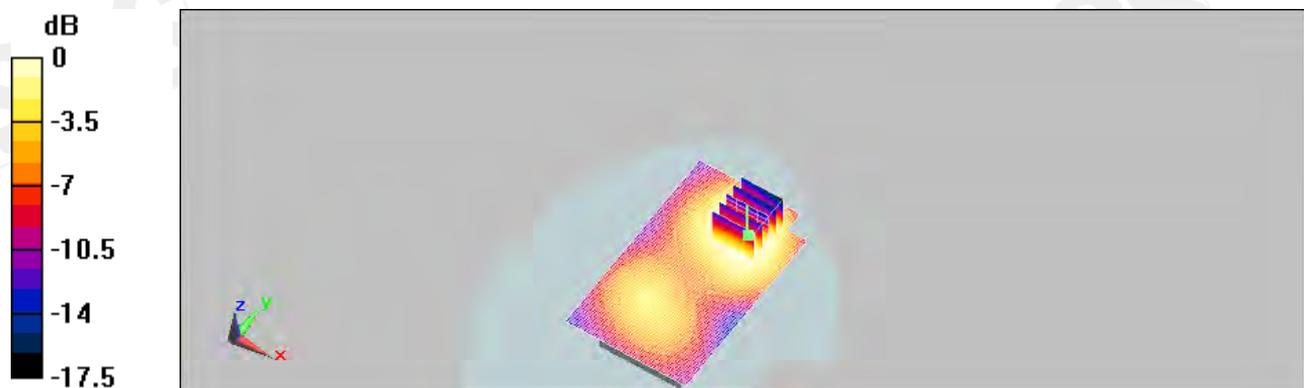
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.54, 4.54, 4.54); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.401 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 11.1 V/m; Power Drift = 0.042 dB
Peak SAR (extrapolated) = 0.592 W/kg

SAR(1 g) = 0.357 mW/g; SAR(10 g) = 0.219 mW/g
Maximum value of SAR (measured) = 0.378 mW/g



0 dB = 0.378mW/g

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Date: 2010/4/4

BODY_CH9400

DUT: PB99220;

Communication System: WCDMA B2; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: BODY 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 54.8$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

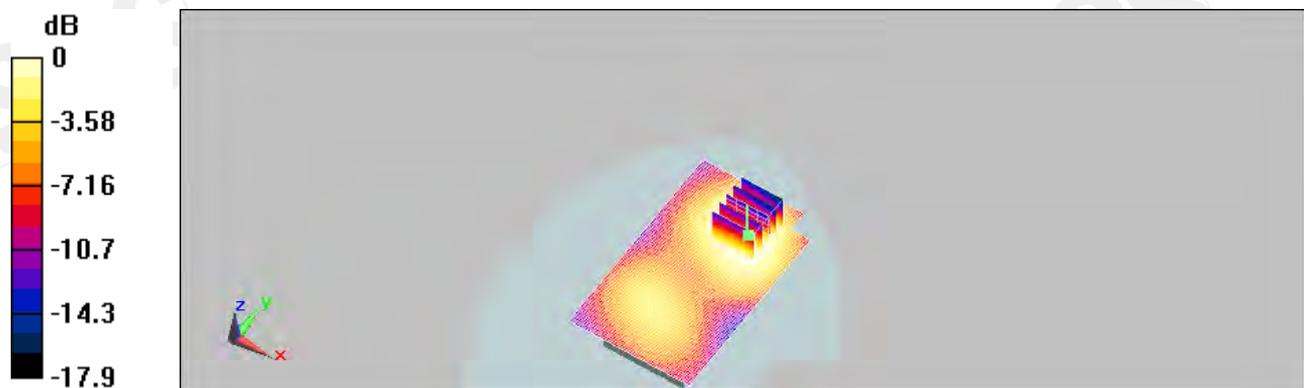
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.54, 4.54, 4.54); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.385 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.3 V/m; Power Drift = 0.00786 dB
Peak SAR (extrapolated) = 0.576 W/kg

SAR(1 g) = 0.345 mW/g; SAR(10 g) = 0.214 mW/g
Maximum value of SAR (measured) = 0.365 mW/g



0 dB = 0.365mW/g

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Date: 2010/4/4

BODY_CH9538

DUT: PB99220;

Communication System: WCDMA B2; Frequency: 1907.6 MHz; Duty Cycle: 1:1
Medium: BODY 1900 Medium parameters used: $f = 1908 \text{ MHz}$; $\sigma = 1.59 \text{ mho/m}$; $\epsilon_r = 54.4$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

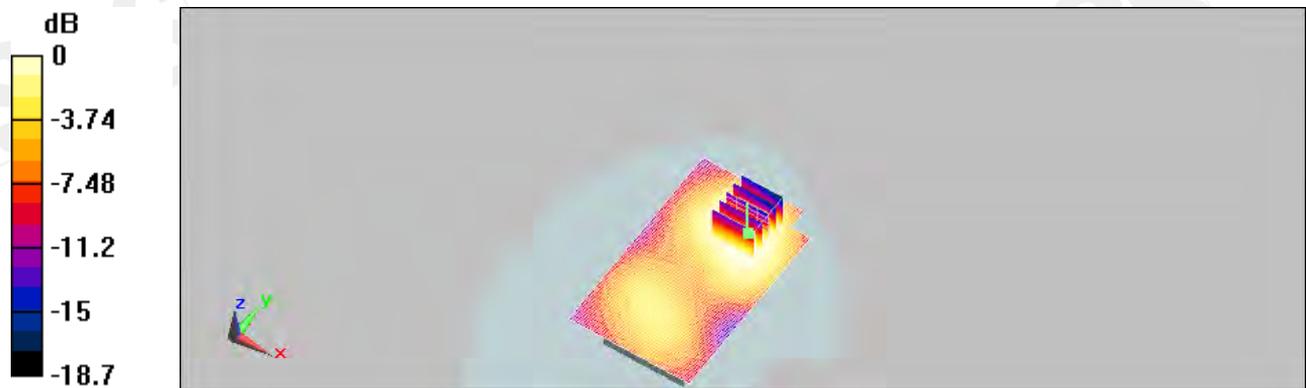
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.54, 4.54, 4.54); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.291 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 9.81 V/m; Power Drift = -0.00606 dB
Peak SAR (extrapolated) = 0.440 W/kg

SAR(1 g) = 0.261 mW/g; SAR(10 g) = 0.162 mW/g
Maximum value of SAR (measured) = 0.276 mW/g



0 dB = 0.276mW/g

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Date: 2010/4/3

RE Cheek_CH4132

DUT: PB99220;

Communication System: WCDMA B5; Frequency: 826.4 MHz; Duty Cycle: 1:1
 Medium: Head 900 Medium parameters used (interpolated): $f = 826.4 \text{ MHz}$; $\sigma = 0.872 \text{ mho/m}$; $\epsilon_r = 40.6$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Right Section

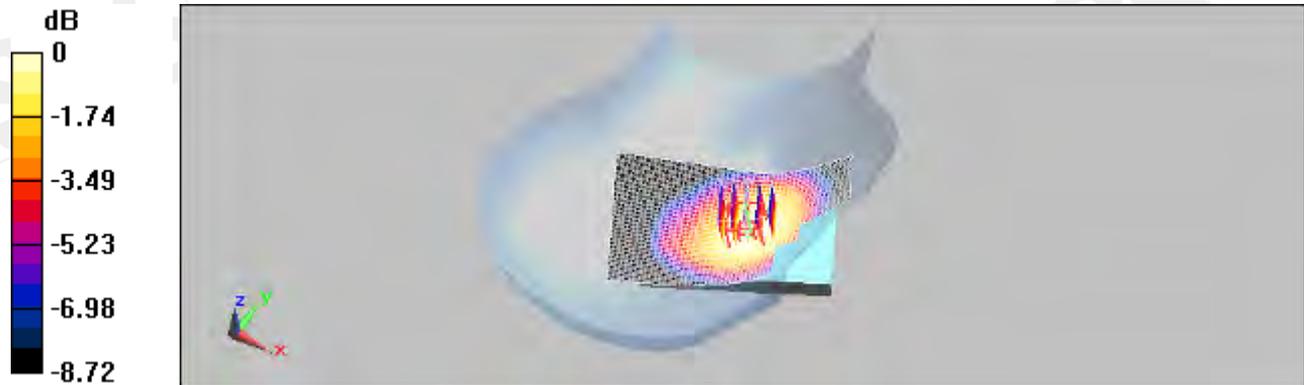
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 0.381 mW/g

RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 9.4 V/m; Power Drift = 0.109 dB
 Peak SAR (extrapolated) = 0.453 W/kg

SAR(1 g) = 0.358 mW/g; SAR(10 g) = 0.268 mW/g
 Maximum value of SAR (measured) = 0.380 mW/g



0 dB = 0.380mW/g

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Date: 2010/4/3

RE Cheek_CH4183

DUT: PB99220;

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1
 Medium: Head 900 Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.88 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Cheek/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.353 mW/g

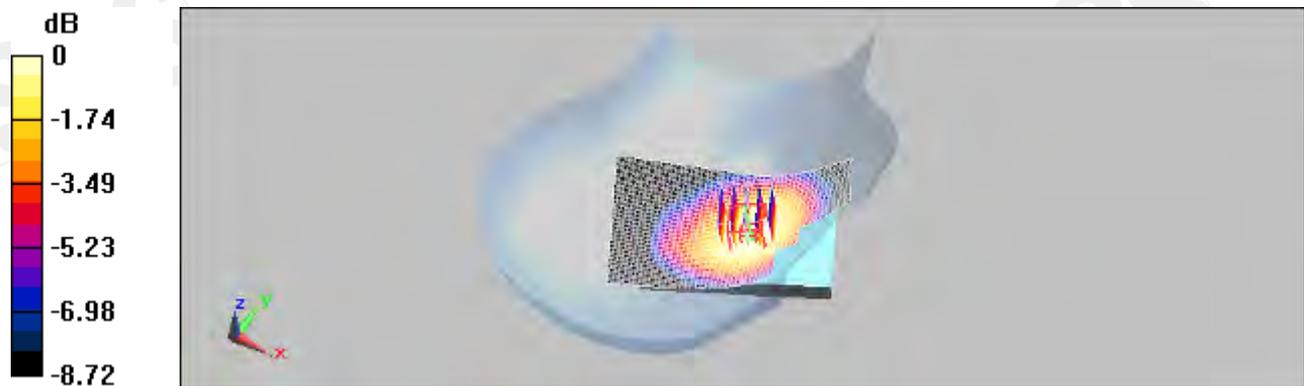
RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.14 V/m; Power Drift = 0.056 dB

Peak SAR (extrapolated) = 0.425 W/kg

SAR(1 g) = 0.335 mW/g; SAR(10 g) = 0.250 mW/g

Maximum value of SAR (measured) = 0.355 mW/g



0 dB = 0.355mW/g

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Date: 2010/4/3

RE Cheek_CH4233

DUT: PB99220;

Communication System: WCDMA B5; Frequency: 846.6 MHz; Duty Cycle: 1:1
Medium: Head 900 Medium parameters used: $f = 847 \text{ MHz}$; $\sigma = 0.892 \text{ mho/m}$; $\epsilon_r = 40.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

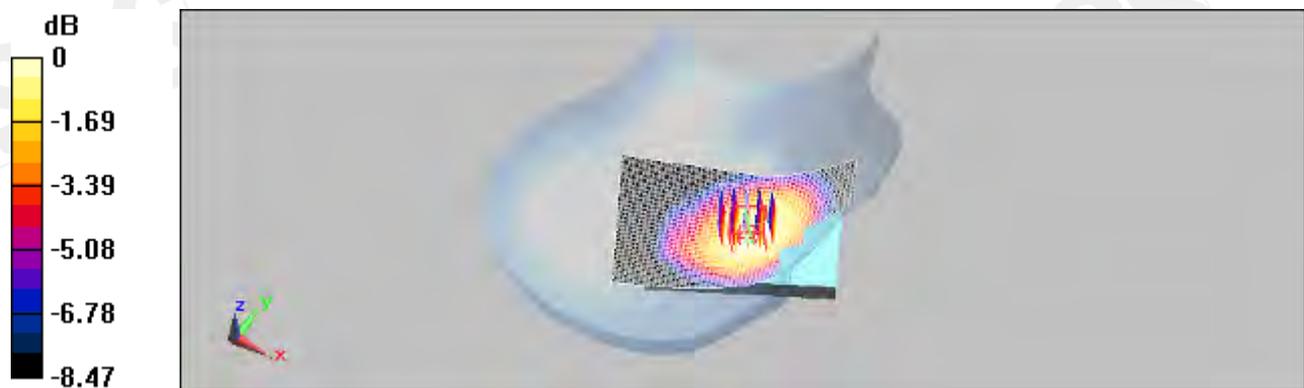
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Cheek/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.327 mW/g

RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 8.8 V/m; Power Drift = -0.091 dB
Peak SAR (extrapolated) = 0.399 W/kg

SAR(1 g) = 0.312 mW/g; SAR(10 g) = 0.231 mW/g
Maximum value of SAR (measured) = 0.329 mW/g



0 dB = 0.329mW/g

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Date: 2010/4/3

LE Cheek_CH4132

DUT: PB99220;

Communication System: WCDMA B5; Frequency: 826.4 MHz; Duty Cycle: 1:1
Medium: Head 900 Medium parameters used (interpolated): $f = 826.4 \text{ MHz}$; $\sigma = 0.872 \text{ mho/m}$; $\epsilon_r = 40.6$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

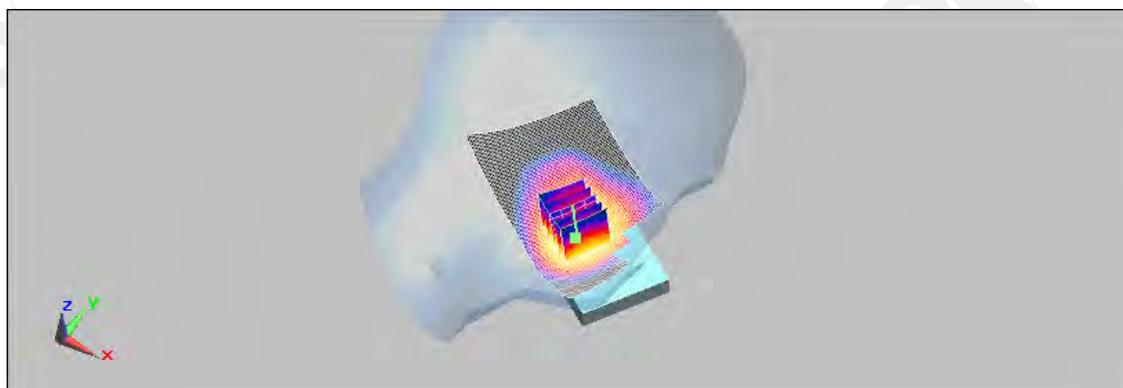
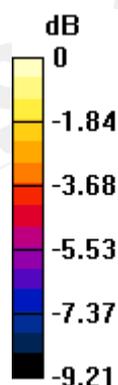
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.468 mW/g

LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 10.1 V/m; Power Drift = 0.061 dB
Peak SAR (extrapolated) = 0.565 W/kg

SAR(1 g) = 0.432 mW/g; SAR(10 g) = 0.320 mW/g
Maximum value of SAR (measured) = 0.456 mW/g



0 dB = 0.456mW/g

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Date: 2010/4/3

LE Cheek_CH4183

DUT: PB99220;

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: Head 900 Medium parameters used: $f = 837$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 40.4$; $\rho = 1000$ kg/m³
Phantom section: Left Section

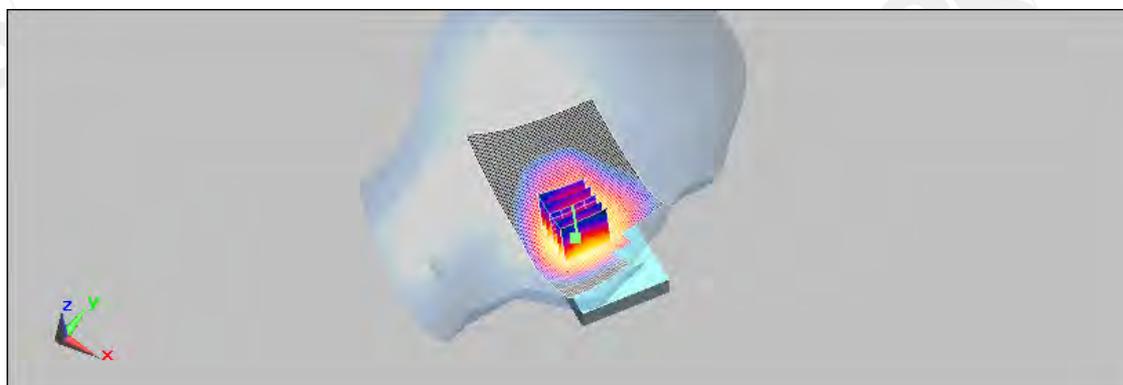
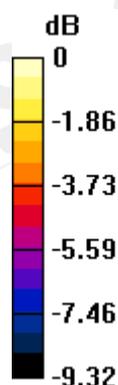
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.59 V/m; Power Drift = 0.109 dB
Peak SAR (extrapolated) = 0.526 W/kg

SAR(1 g) = 0.403 mW/g; SAR(10 g) = 0.298 mW/g
Maximum value of SAR (measured) = 0.425 mW/g



0 dB = 0.425mW/g

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Date: 2010/4/3

LE Cheek_CH4233

DUT: PB99220;

Communication System: WCDMA B5; Frequency: 846.6 MHz; Duty Cycle: 1:1
Medium: Head 900 Medium parameters used: $f = 847 \text{ MHz}$; $\sigma = 0.892 \text{ mho/m}$; $\epsilon_r = 40.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

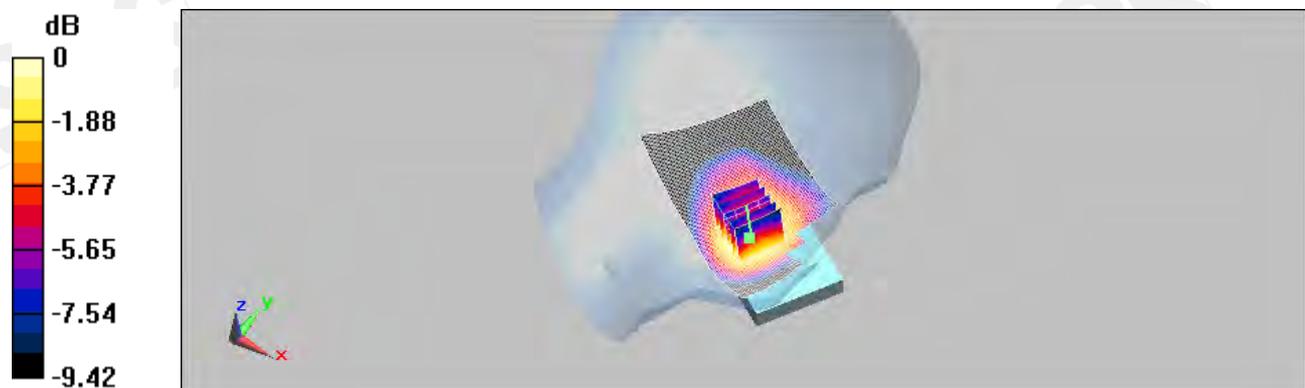
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.392 mW/g

LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 8.98 V/m; Power Drift = 0.089 dB
Peak SAR (extrapolated) = 0.477 W/kg

SAR(1 g) = 0.364 mW/g; SAR(10 g) = 0.269 mW/g
Maximum value of SAR (measured) = 0.384 mW/g



0 dB = 0.384mW/g

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Date: 2010/4/3

RE Tilt_CH4132

DUT: PB99220;

Communication System: WCDMA B5; Frequency: 826.4 MHz; Duty Cycle: 1:1
Medium: Head 900 Medium parameters used (interpolated): $f = 826.4 \text{ MHz}$; $\sigma = 0.872 \text{ mho/m}$; $\epsilon_r = 40.6$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

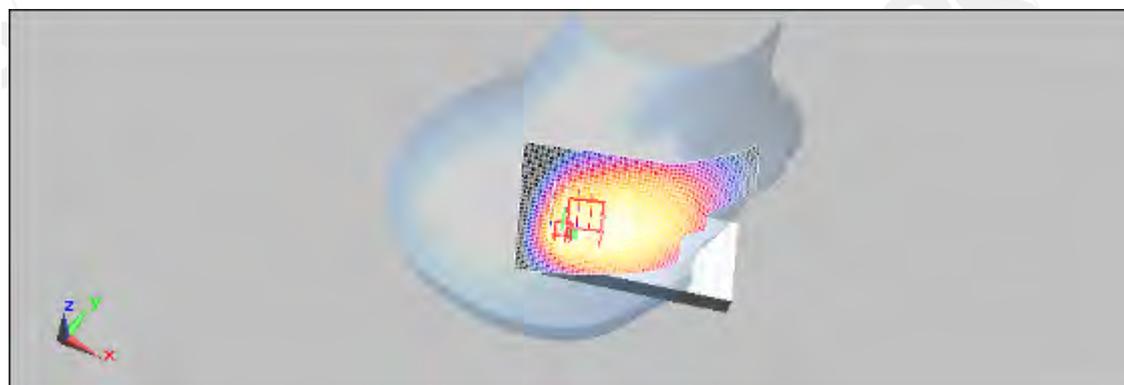
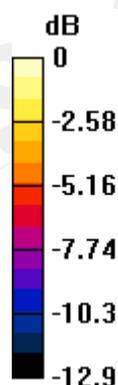
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Tilt/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.299 mW/g

RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 16.5 V/m; Power Drift = 0.045 dB
Peak SAR (extrapolated) = 0.531 W/kg

SAR(1 g) = 0.266 mW/g; SAR(10 g) = 0.179 mW/g
Maximum value of SAR (measured) = 0.297 mW/g



0 dB = 0.297mW/g

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Date: 2010/4/3

RE Tilt_CH4183

DUT: PB99220;

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1
 Medium: Head 900 Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.88 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Right Section

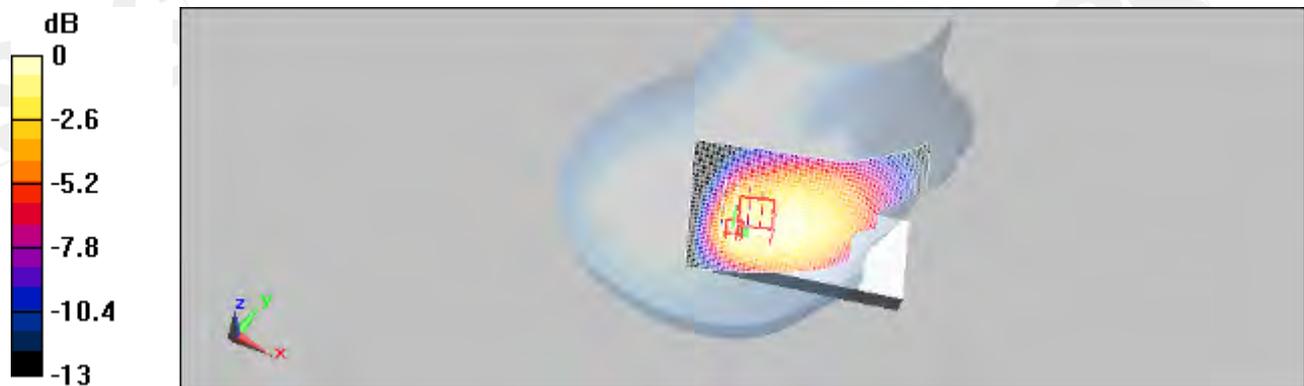
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Tilt/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.287 mW/g

RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 16 V/m; Power Drift = 0.034 dB
 Peak SAR (extrapolated) = 0.496 W/kg

SAR(1 g) = 0.250 mW/g; SAR(10 g) = 0.169 mW/g
 Maximum value of SAR (measured) = 0.280 mW/g



0 dB = 0.280mW/g

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Date: 2010/4/3

RE Tilt_CH4233

DUT: PB99220;

Communication System: WCDMA B5; Frequency: 846.6 MHz; Duty Cycle: 1:1
Medium: Head 900 Medium parameters used: $f = 847 \text{ MHz}$; $\sigma = 0.892 \text{ mho/m}$; $\epsilon_r = 40.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

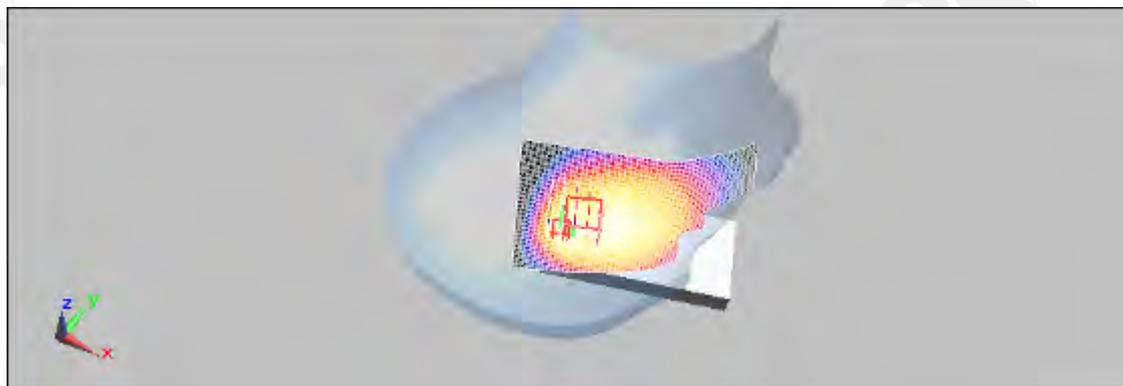
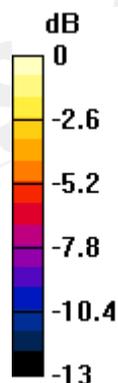
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Tilt/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.265 mW/g

RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 15.3 V/m; Power Drift = 0.053 dB
Peak SAR (extrapolated) = 0.465 W/kg

SAR(1 g) = 0.234 mW/g; SAR(10 g) = 0.157 mW/g
Maximum value of SAR (measured) = 0.262 mW/g



0 dB = 0.262mW/g

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Date: 2010/4/3

LE Tilt_CH4132

DUT: PB99220;

Communication System: WCDMA B5; Frequency: 826.4 MHz; Duty Cycle: 1:1
Medium: Head 900 Medium parameters used (interpolated): $f = 826.4 \text{ MHz}$; $\sigma = 0.872 \text{ mho/m}$; $\epsilon_r = 40.6$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

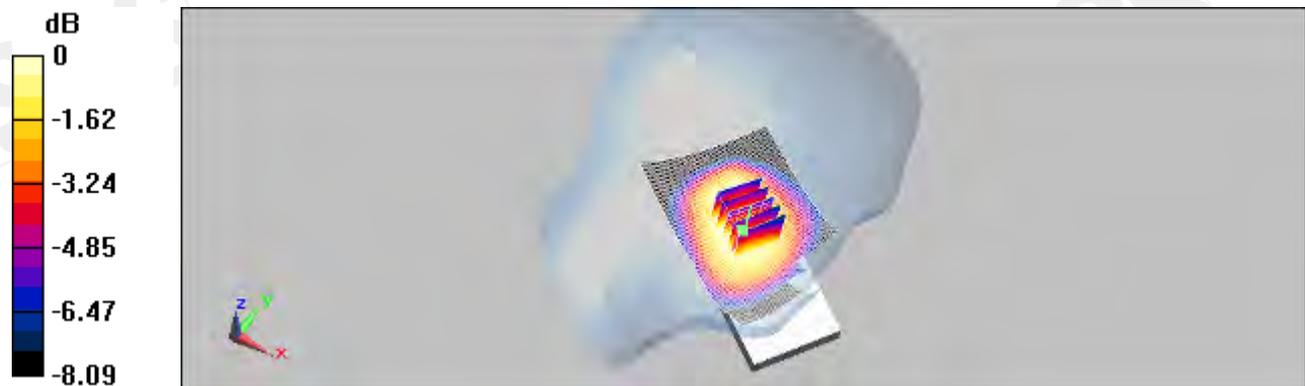
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Tilt/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.278 mW/g

LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 16.6 V/m; Power Drift = 0.023 dB
Peak SAR (extrapolated) = 0.330 W/kg

SAR(1 g) = 0.265 mW/g; SAR(10 g) = 0.204 mW/g
Maximum value of SAR (measured) = 0.275 mW/g



0 dB = 0.275mW/g

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Date: 2010/4/3

LE Tilt_CH4183

DUT: PB99220;

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: Head 900 Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.88 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

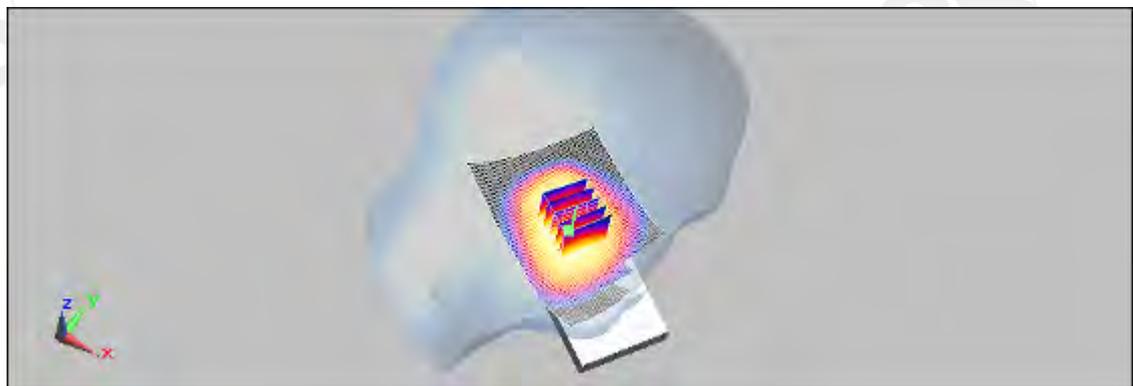
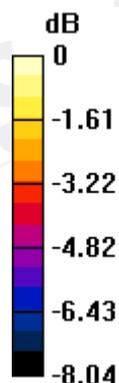
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Tilt/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.263 mW/g

LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 16 V/m; Power Drift = -0.00041 dB
Peak SAR (extrapolated) = 0.316 W/kg

SAR(1 g) = 0.251 mW/g; SAR(10 g) = 0.192 mW/g
Maximum value of SAR (measured) = 0.264 mW/g



0 dB = 0.264mW/g

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Date: 2010/4/3

LE Tilt_CH4233

DUT: PB99220;

Communication System: WCDMA B5; Frequency: 846.6 MHz; Duty Cycle: 1:1
Medium: Head 900 Medium parameters used: $f = 847 \text{ MHz}$; $\sigma = 0.892 \text{ mho/m}$; $\epsilon_r = 40.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

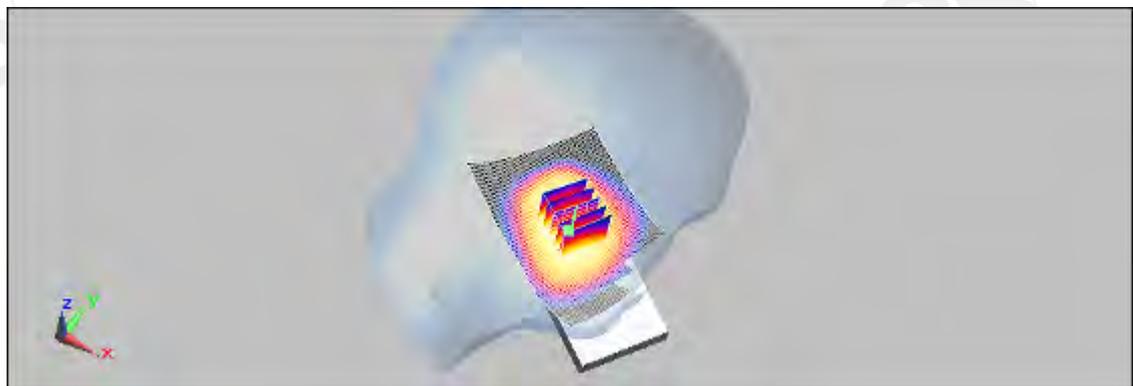
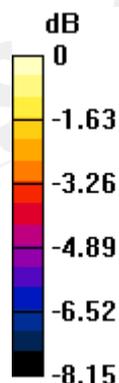
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.83, 5.83, 5.83); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Tilt/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.241 mW/g

LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$,
 $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 14.9 V/m; Power Drift = 0.122 dB
Peak SAR (extrapolated) = 0.286 W/kg

SAR(1 g) = 0.229 mW/g; SAR(10 g) = 0.175 mW/g
Maximum value of SAR (measured) = 0.240 mW/g



0 dB = 0.240mW/g

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Date: 2010/4/3

BODY_CH4132

DUT: PB99220;

Communication System: WCDMA B5; Frequency: 826.4 MHz; Duty Cycle: 1:1
Medium: BODY 900 Medium parameters used (interpolated): $f = 826.4 \text{ MHz}$; $\sigma = 0.991 \text{ mho/m}$; $\epsilon_r = 54.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

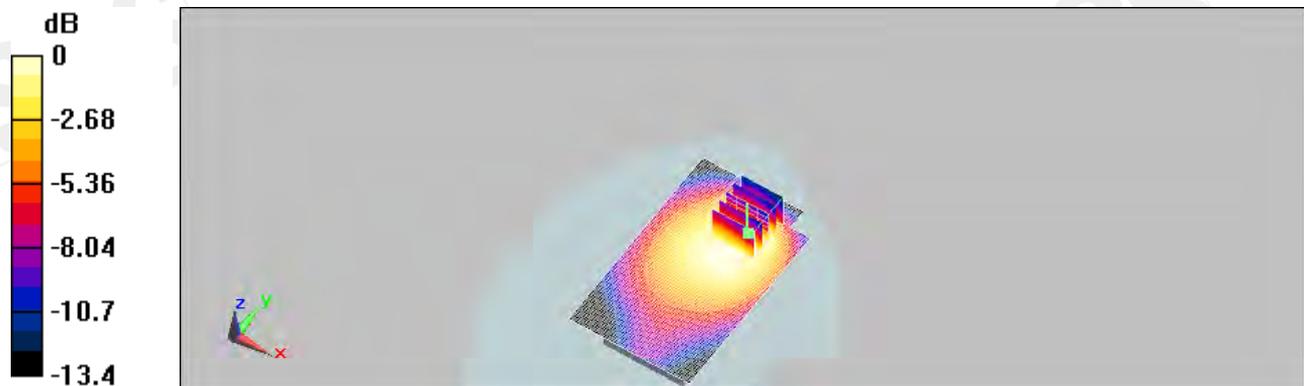
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.81, 5.81, 5.81); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.249 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 7.54 V/m; Power Drift = 0.092 dB
Peak SAR (extrapolated) = 0.355 W/kg

SAR(1 g) = 0.228 mW/g; SAR(10 g) = 0.144 mW/g
Maximum value of SAR (measured) = 0.237 mW/g



0 dB = 0.237mW/g

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Date: 2010/4/3

BODY_CH4183

DUT: PB99220;

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: BODY 900 Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 1 \text{ mho/m}$; $\epsilon_r = 54$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

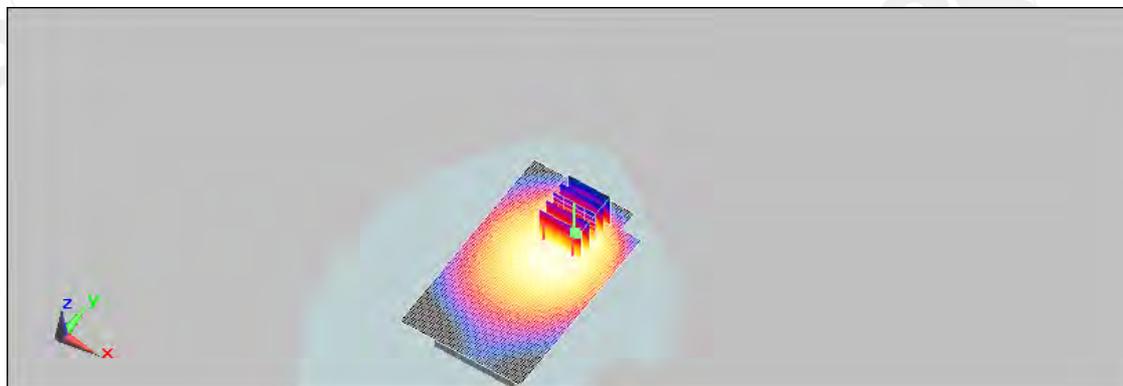
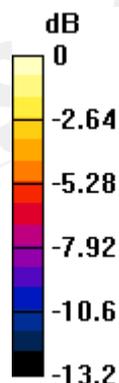
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.81, 5.81, 5.81); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.287 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$,
 $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 7.72 V/m; Power Drift = 0.00616 dB
Peak SAR (extrapolated) = 0.395 W/kg

SAR(1 g) = 0.258 mW/g; SAR(10 g) = 0.169 mW/g
Maximum value of SAR (measured) = 0.276 mW/g



0 dB = 0.276mW/g

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Date: 2010/4/3

BODY_CH4233

DUT: PB99220;

Communication System: WCDMA B5; Frequency: 846.6 MHz; Duty Cycle: 1:1
Medium: BODY 900 Medium parameters used: $f = 847 \text{ MHz}$; $\sigma = 1.01 \text{ mho/m}$; $\epsilon_r = 53.9$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

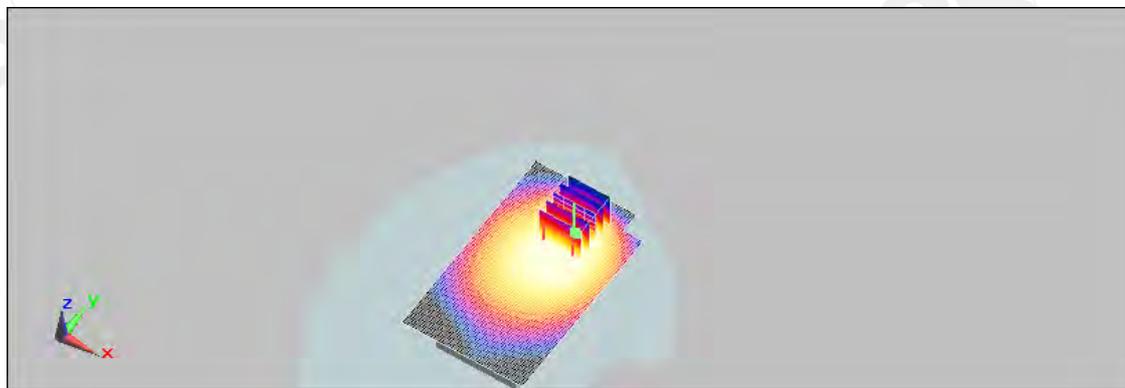
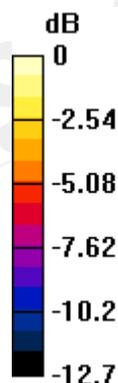
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.81, 5.81, 5.81); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.266 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 7.95 V/m; Power Drift = -0.140 dB
Peak SAR (extrapolated) = 0.361 W/kg

SAR(1 g) = 0.238 mW/g; SAR(10 g) = 0.160 mW/g
Maximum value of SAR (measured) = 0.250 mW/g



0 dB = 0.250mW/g

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Date: 2010/4/5

RE Cheek_WLAN802.11b_CH1

DUT: PB99220;

Communication System: Wireless LAN; Frequency: 2412 MHz; Duty Cycle: 1:1
Medium: Head 2450 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.77$ mho/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³
Phantom section: Right Section

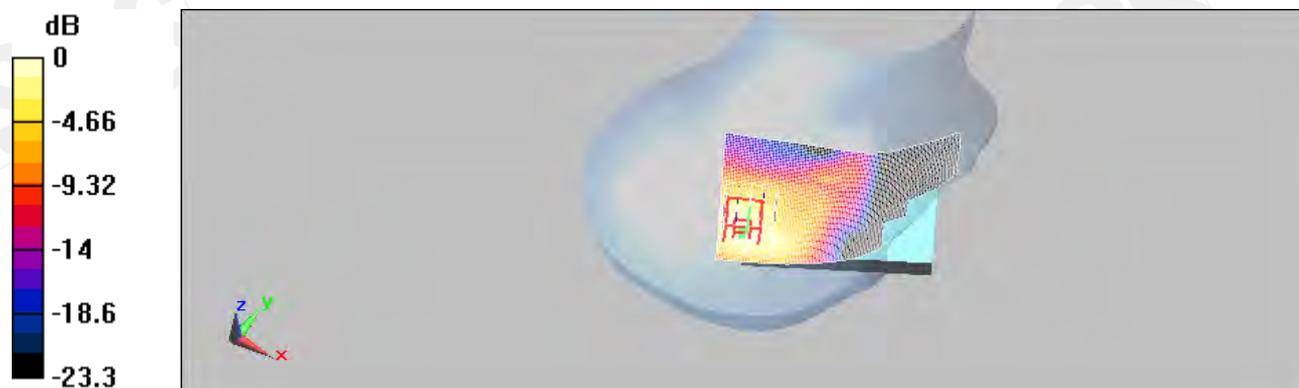
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.33, 4.33, 4.33); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.159 mW/g

RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.46 V/m; Power Drift = 0.106 dB
Peak SAR (extrapolated) = 0.347 W/kg

SAR(1 g) = 0.155 mW/g; SAR(10 g) = 0.077 mW/g
Maximum value of SAR (measured) = 0.177 mW/g



0 dB = 0.177mW/g

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Date: 2010/4/5

RE Cheek_WLAN802.11b_CH6

DUT: PB99220;

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium: Head 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.8 \text{ mho/m}$; $\epsilon_r = 38.2$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

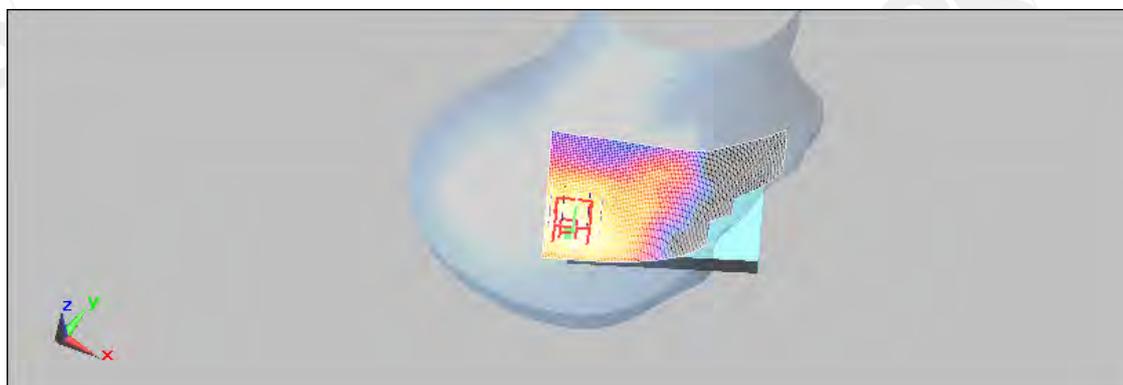
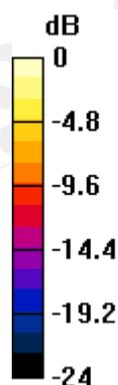
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.33, 4.33, 4.33); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Cheek/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.142 mW/g

RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 6.79 V/m; Power Drift = 0.067 dB
Peak SAR (extrapolated) = 0.288 W/kg

SAR(1 g) = 0.131 mW/g; SAR(10 g) = 0.064 mW/g
Maximum value of SAR (measured) = 0.145 mW/g



0 dB = 0.145mW/g

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Date: 2010/4/5

RE Cheek_WLAN802.11b_CH11

DUT: PB99220;

Communication System: Wireless LAN; Frequency: 2462 MHz; Duty Cycle: 1:1
Medium: Head 2450 Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.84 \text{ mho/m}$; $\epsilon_r = 38.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

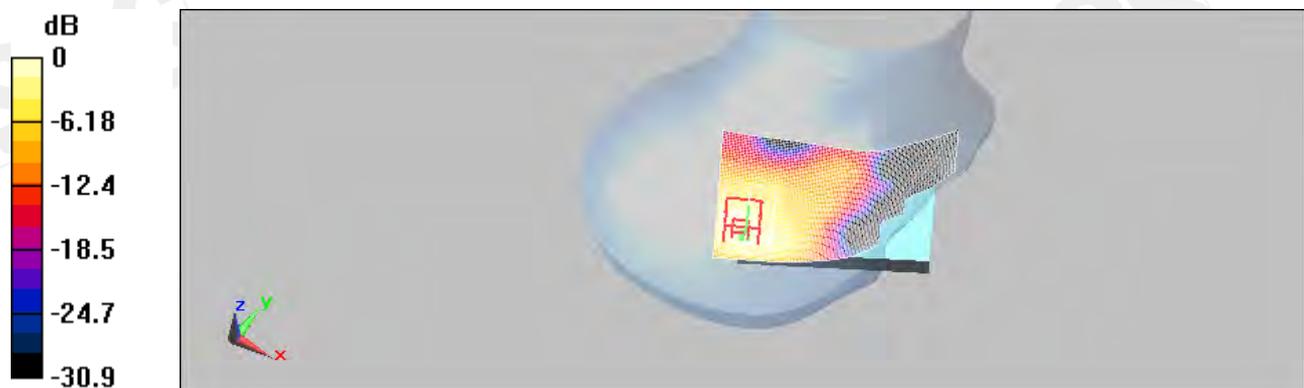
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.33, 4.33, 4.33); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Cheek/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.116 mW/g

RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 6.23 V/m; Power Drift = 0.151 dB
Peak SAR (extrapolated) = 0.264 W/kg

SAR(1 g) = 0.114 mW/g; SAR(10 g) = 0.056 mW/g
Maximum value of SAR (measured) = 0.125 mW/g



0 dB = 0.125mW/g

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Date: 2010/4/5

LE Cheek_WLAN802.11b_CH1

DUT: PB99220;

Communication System: Wireless LAN; Frequency: 2412 MHz; Duty Cycle: 1:1
Medium: Head 2450 Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.77 \text{ mho/m}$; $\epsilon_r = 38.2$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

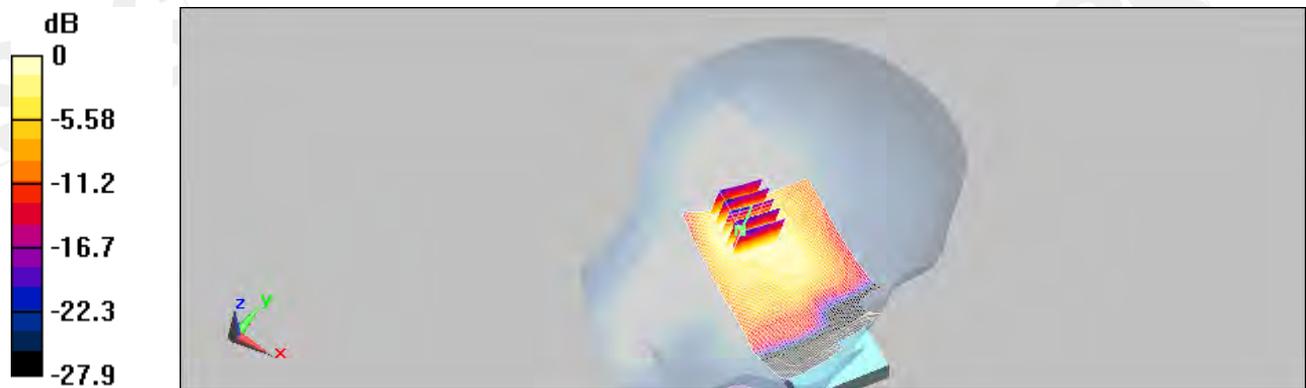
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.33, 4.33, 4.33); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.131 mW/g

LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 7.45 V/m; Power Drift = 0.078 dB
Peak SAR (extrapolated) = 0.214 W/kg

SAR(1 g) = 0.111 mW/g; SAR(10 g) = 0.058 mW/g
Maximum value of SAR (measured) = 0.119 mW/g



0 dB = 0.119mW/g

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Date: 2010/4/5

LE Cheek_WLAN802.11b_CH6

DUT: PB99220;

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium: Head 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.8 \text{ mho/m}$; $\epsilon_r = 38.2$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

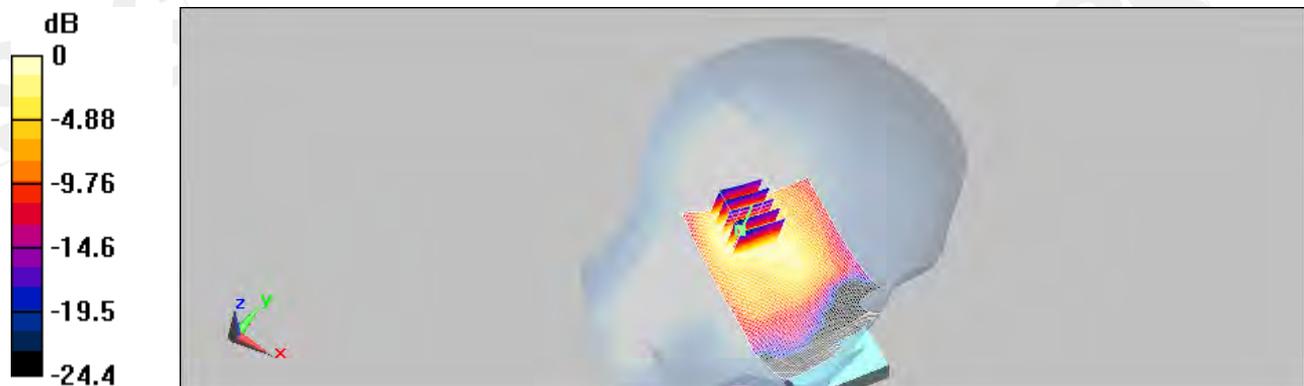
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.33, 4.33, 4.33); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.113 mW/g

LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 6.97 V/m; Power Drift = 0.155 dB
Peak SAR (extrapolated) = 0.191 W/kg

SAR(1 g) = 0.099 mW/g; SAR(10 g) = 0.052 mW/g
Maximum value of SAR (measured) = 0.107 mW/g



0 dB = 0.107mW/g

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Date: 2010/4/5

LE Cheek_WLAN802.11b_CH11

DUT: PB99220;

Communication System: Wireless LAN; Frequency: 2462 MHz; Duty Cycle: 1:1
Medium: Head 2450 Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.84 \text{ mho/m}$; $\epsilon_r = 38.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

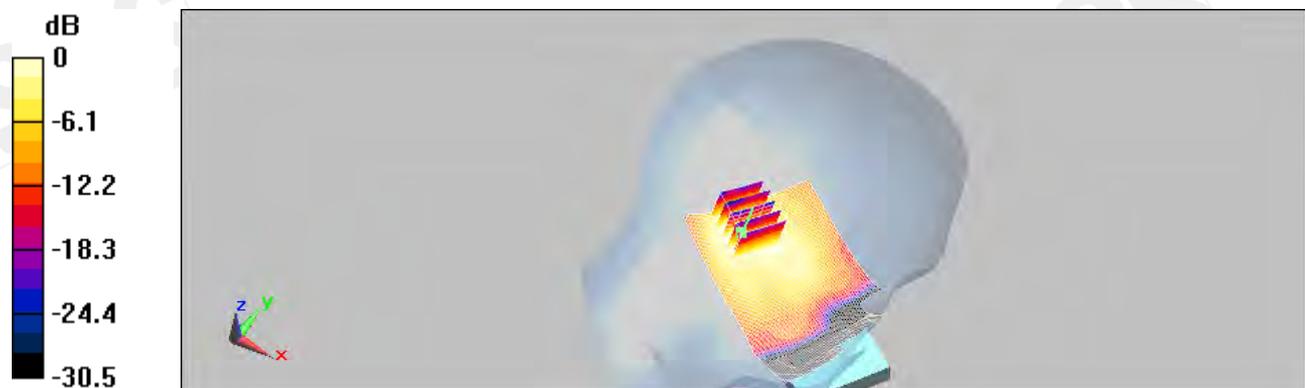
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.33, 4.33, 4.33); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.095 mW/g

LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 6.43 V/m; Power Drift = 0.199 dB
Peak SAR (extrapolated) = 0.159 W/kg

SAR(1 g) = 0.080 mW/g; SAR(10 g) = 0.042 mW/g
Maximum value of SAR (measured) = 0.086 mW/g



0 dB = 0.086mW/g

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Date: 2010/4/5

RE Tilt_WLAN802.11b_CH1

DUT: PB99220;

Communication System: Wireless LAN; Frequency: 2412 MHz; Duty Cycle: 1:1
Medium: Head 2450 Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.77 \text{ mho/m}$; $\epsilon_r = 38.2$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

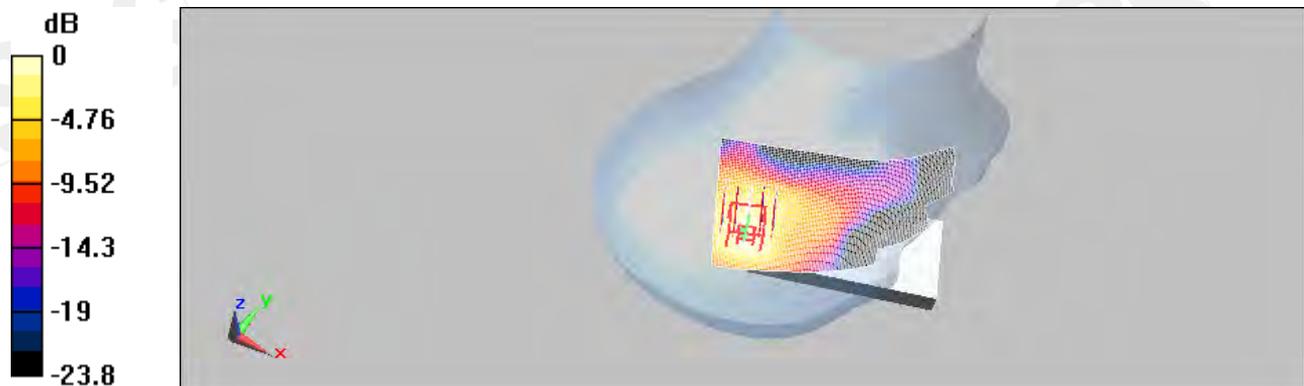
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.33, 4.33, 4.33); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Tilt/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.208 mW/g

RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 7.04 V/m; Power Drift = 0.147 dB
Peak SAR (extrapolated) = 0.473 W/kg

SAR(1 g) = 0.205 mW/g; SAR(10 g) = 0.097 mW/g
Maximum value of SAR (measured) = 0.219 mW/g



0 dB = 0.219mW/g

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Date: 2010/4/5

RE Tilt_WLAN802.11b_CH6

DUT: PB99220;

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium: Head 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.8 \text{ mho/m}$; $\epsilon_r = 38.2$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

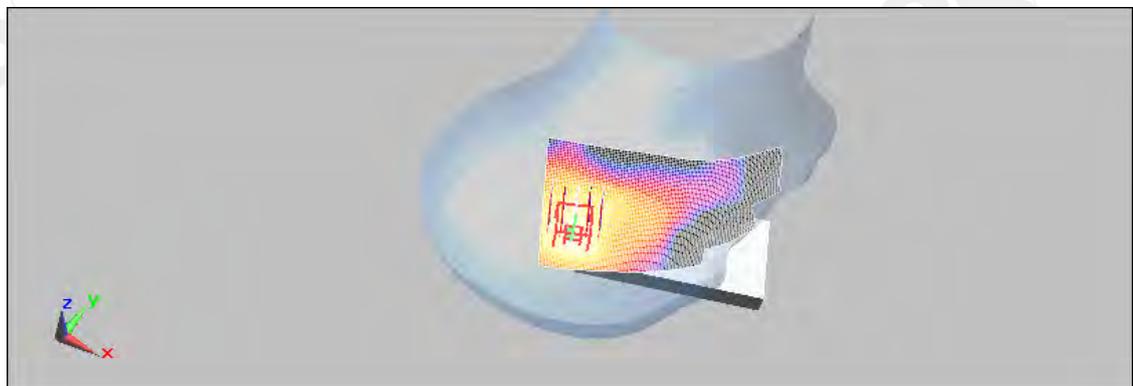
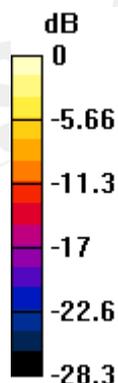
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.33, 4.33, 4.33); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Tilt/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.168 mW/g

RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$,
 $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 6.36 V/m; Power Drift = 0.156 dB
Peak SAR (extrapolated) = 0.384 W/kg

SAR(1 g) = 0.166 mW/g; SAR(10 g) = 0.078 mW/g
Maximum value of SAR (measured) = 0.178 mW/g



0 dB = 0.178mW/g

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Date: 2010/4/5

RE Tilt_WLAN802.11b_CH11

DUT: PB99220;

Communication System: Wireless LAN; Frequency: 2462 MHz; Duty Cycle: 1:1
Medium: Head 2450 Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.84 \text{ mho/m}$; $\epsilon_r = 38.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

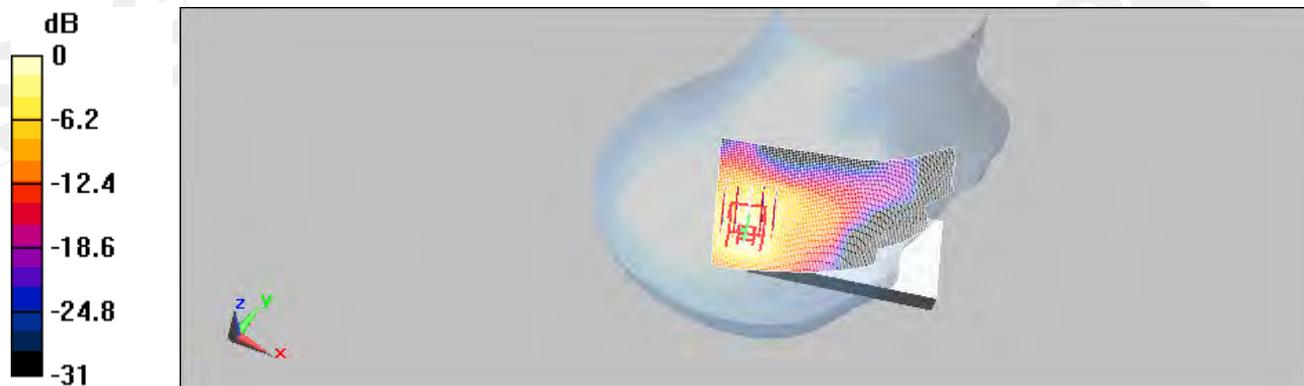
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.33, 4.33, 4.33); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Tilt/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.143 mW/g

RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 5.92 V/m; Power Drift = 0.103 dB
Peak SAR (extrapolated) = 0.317 W/kg

SAR(1 g) = 0.137 mW/g; SAR(10 g) = 0.063 mW/g
Maximum value of SAR (measured) = 0.151 mW/g



0 dB = 0.151mW/g

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Date: 2010/4/5

RE Tilt_WLAN802.11b_CH1_repeated with Memory card

DUT: PB99220;

Communication System: Wireless LAN; Frequency: 2412 MHz; Duty Cycle: 1:1
Medium: Head 2450 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.77$ mho/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³
Phantom section: Right Section

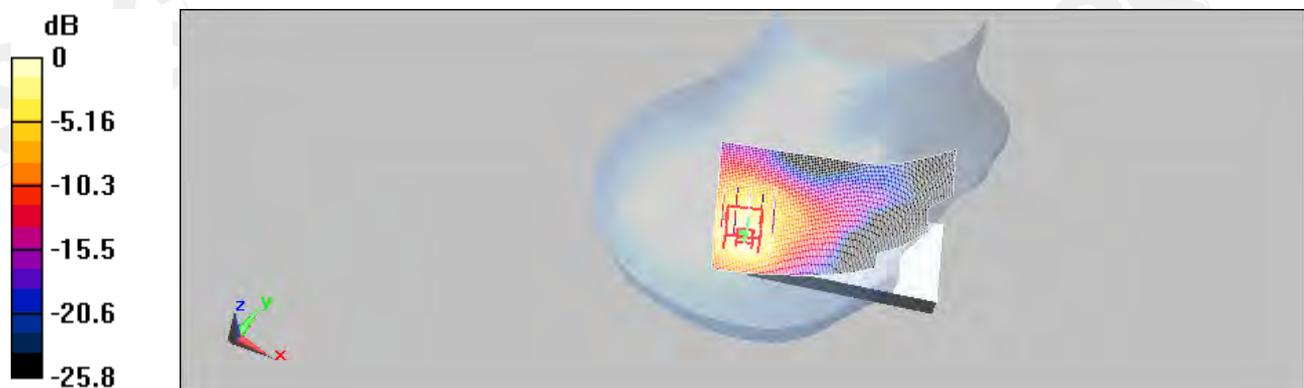
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.33, 4.33, 4.33); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.162 mW/g

RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.85 V/m; Power Drift = 0.164 dB
Peak SAR (extrapolated) = 0.340 W/kg

SAR(1 g) = 0.153 mW/g; SAR(10 g) = 0.072 mW/g
Maximum value of SAR (measured) = 0.176 mW/g



0 dB = 0.176mW/g

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Date: 2010/4/5

RE Tilt_WLAN802.11b_CH1_repeated with HT Energy Battery

DUT: PB99220;

Communication System: Wireless LAN; Frequency: 2412 MHz; Duty Cycle: 1:1
Medium: Head 2450 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.77$ mho/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³
Phantom section: Right Section

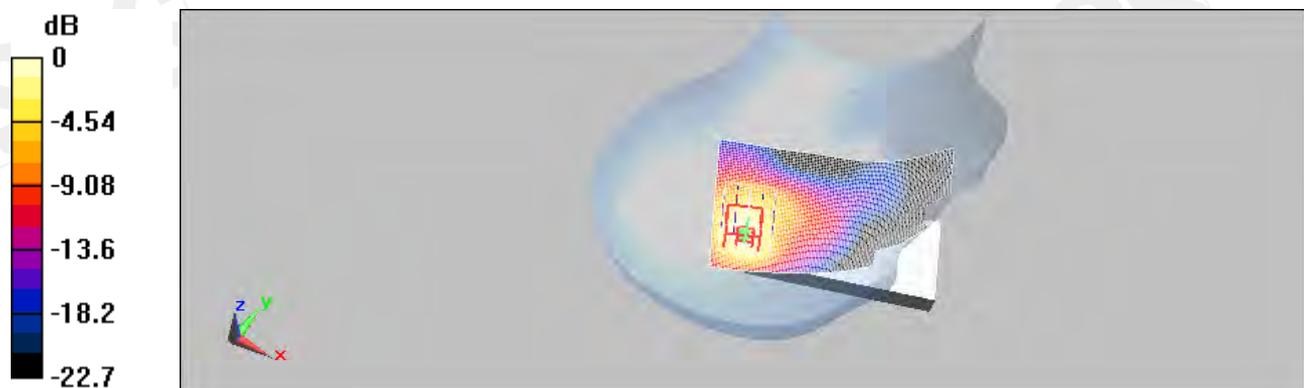
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.33, 4.33, 4.33); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.200 mW/g

RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.28 V/m; Power Drift = 0.135 dB
Peak SAR (extrapolated) = 0.441 W/kg

SAR(1 g) = 0.194 mW/g; SAR(10 g) = 0.091 mW/g
Maximum value of SAR (measured) = 0.217 mW/g



0 dB = 0.217mW/g

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Date: 2010/4/5

LE Tilt_WLAN802.11b_CH1

DUT: PB99220;

Communication System: Wireless LAN; Frequency: 2412 MHz; Duty Cycle: 1:1
 Medium: Head 2450 Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.77 \text{ mho/m}$; $\epsilon_r = 38.2$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Left Section

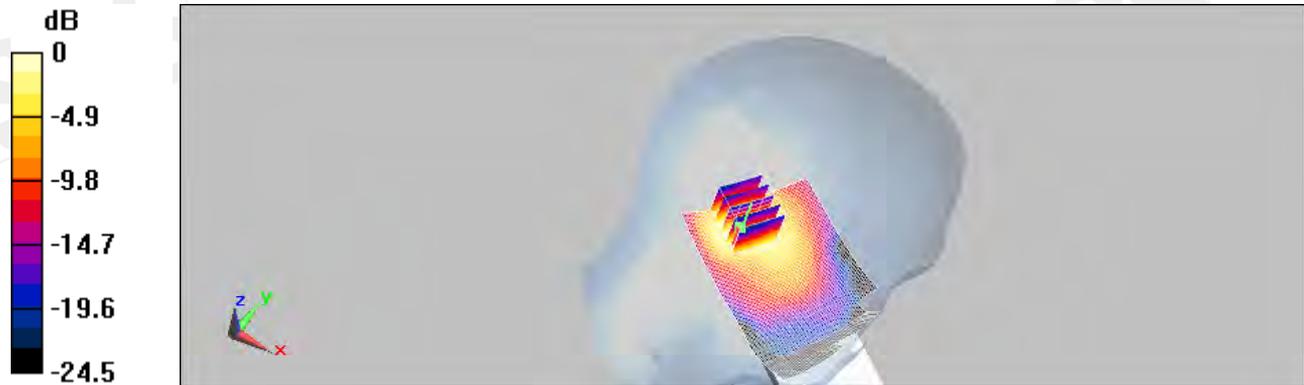
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.33, 4.33, 4.33); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Tilt/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.175 mW/g

LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 7.61 V/m; Power Drift = 0.108 dB
 Peak SAR (extrapolated) = 0.295 W/kg

SAR(1 g) = 0.153 mW/g; SAR(10 g) = 0.078 mW/g
 Maximum value of SAR (measured) = 0.167 mW/g



0 dB = 0.167mW/g

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Date: 2010/4/5

LE Tilt_WLAN802.11b_CH6

DUT: PB99220;

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium: Head 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.8 \text{ mho/m}$; $\epsilon_r = 38.2$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

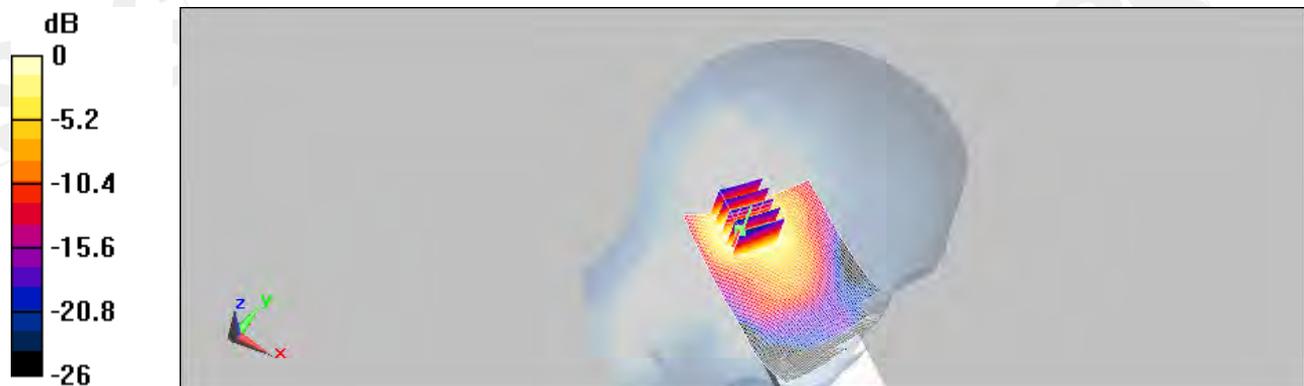
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.33, 4.33, 4.33); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Tilt/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.148 mW/g

LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$,
 $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 6.89 V/m; Power Drift = 0.192 dB
Peak SAR (extrapolated) = 0.241 W/kg

SAR(1 g) = 0.125 mW/g; SAR(10 g) = 0.064 mW/g
Maximum value of SAR (measured) = 0.134 mW/g



0 dB = 0.134mW/g

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Date: 2010/4/5

LE Tilt_WLAN802.11b_CH11

DUT: PB99220;

Communication System: Wireless LAN; Frequency: 2462 MHz; Duty Cycle: 1:1
Medium: Head 2450 Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.84 \text{ mho/m}$; $\epsilon_r = 38.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

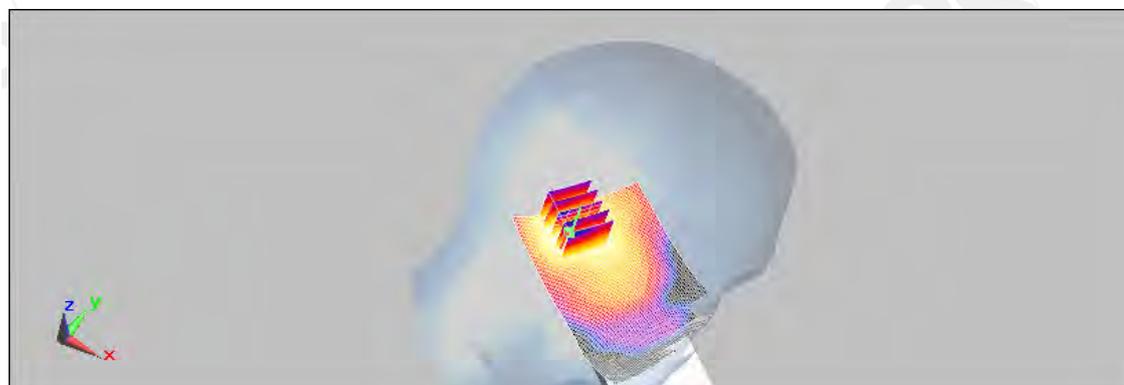
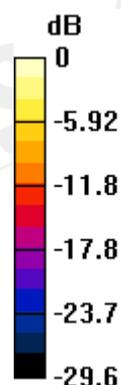
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.33, 4.33, 4.33); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Tilt/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.122 mW/g

LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 6.27 V/m; Power Drift = 0.039 dB
Peak SAR (extrapolated) = 0.207 W/kg

SAR(1 g) = 0.105 mW/g; SAR(10 g) = 0.052 mW/g
Maximum value of SAR (measured) = 0.113 mW/g



0 dB = 0.113mW/g

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Date: 2010/4/5

BODY_WLAN802.11b_CH1

DUT: PB99220;

Communication System: Wireless LAN; Frequency: 2412 MHz; Duty Cycle: 1:1
Medium: BODY 2450 Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.99 \text{ mho/m}$; $\epsilon_r = 52$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

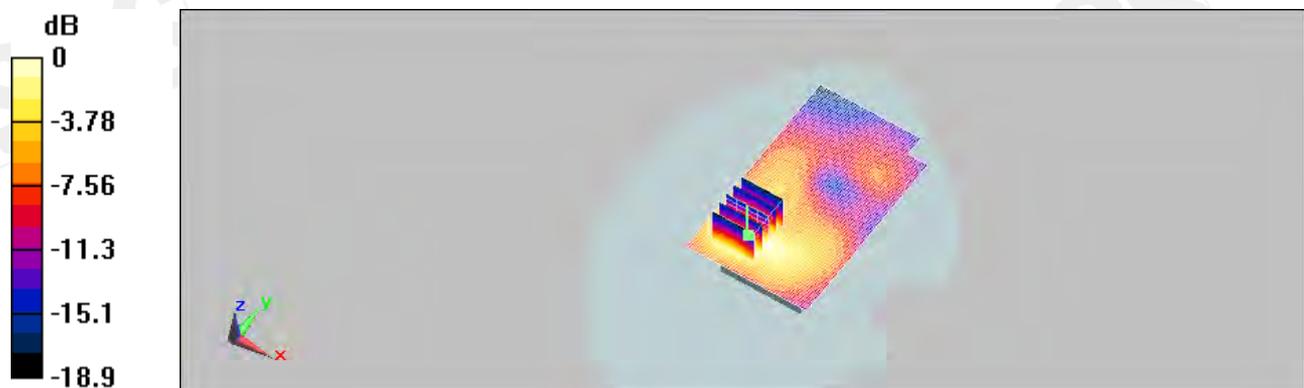
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.02, 4.02, 4.02); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.141 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 6.7 V/m; Power Drift = 0.135 dB
Peak SAR (extrapolated) = 0.239 W/kg

SAR(1 g) = 0.132 mW/g; SAR(10 g) = 0.072 mW/g
Maximum value of SAR (measured) = 0.140 mW/g



0 dB = 0.140mW/g

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Date: 2010/4/5

BODY_WLAN802.11b_CH6

DUT: PB99220;

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium: BODY 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 2.04 \text{ mho/m}$; $\epsilon_r = 52.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

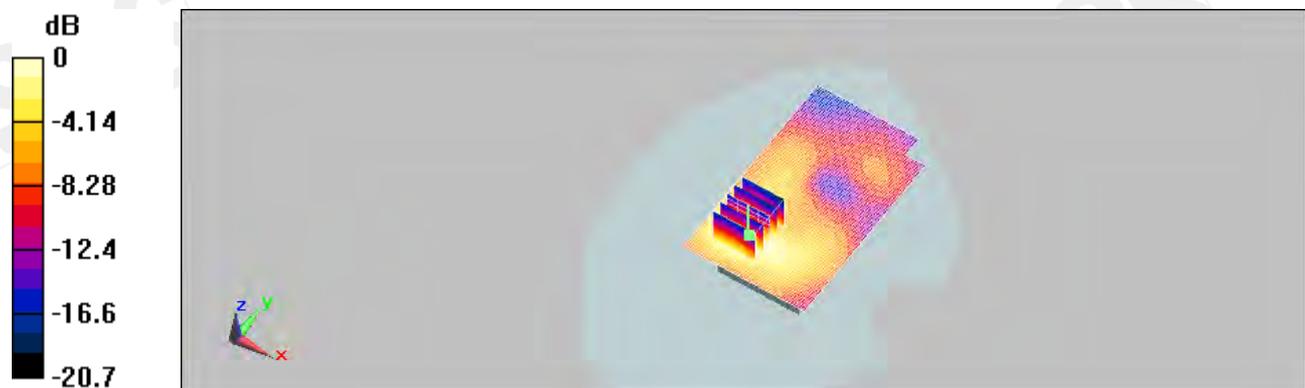
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.02, 4.02, 4.02); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.133 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 6.44 V/m; Power Drift = 0.175 dB
Peak SAR (extrapolated) = 0.219 W/kg

SAR(1 g) = 0.121 mW/g; SAR(10 g) = 0.067 mW/g
Maximum value of SAR (measured) = 0.129 mW/g



0 dB = 0.129mW/g

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Date: 2010/4/5

BODY_WLAN802.11b_CH11

DUT: PB99220;

Communication System: Wireless LAN; Frequency: 2462 MHz; Duty Cycle: 1:1
Medium: BODY 2450 Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 2.07 \text{ mho/m}$; $\epsilon_r = 52$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

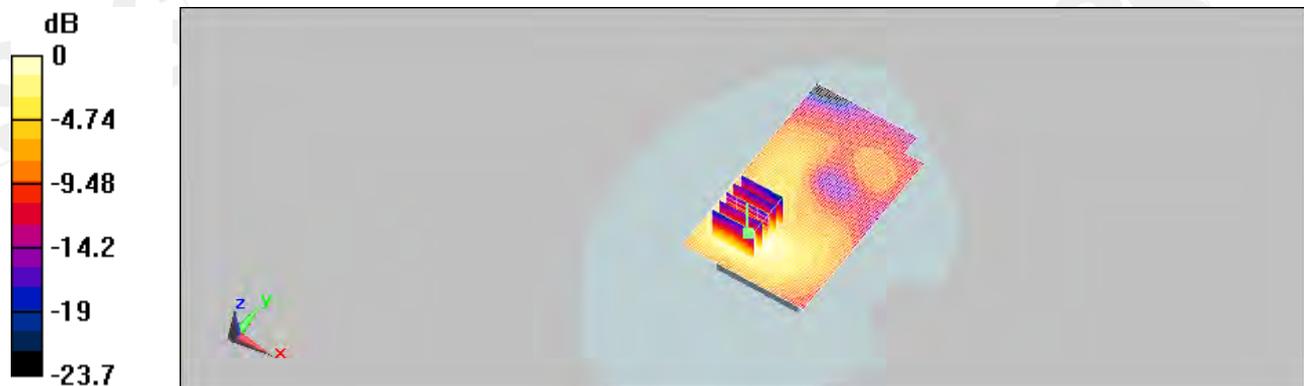
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.02, 4.02, 4.02); Calibrated: 2009/5/27
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2009/5/26
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.105 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 5.82 V/m; Power Drift = -0.070 dB
Peak SAR (extrapolated) = 0.175 W/kg

SAR(1 g) = 0.095 mW/g; SAR(10 g) = 0.052 mW/g
Maximum value of SAR (measured) = 0.103 mW/g



0 dB = 0.103mW/g

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