

SAR TEST REPORT

Equipment Under Test	Edison
Model Name	MB865
Company Name	Motorola Mobility, Inc.
Company Address	600 North U.S. Highway 45, Libertyville, IL 60048-5343
Date of Receipt	2011.05.31
Date of Test(s)	2011.06.06-2011.06.11;2011.08.22;2011.09.13
Date of Issue	2011.09.14

Standards:

FCC OET Bulletin 65 supplement C, IEEE/ANSI C95.1, C95.3, IEEE 1528

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 : Ricky Huang
Asst. Supervisor

Date : 2011.09.14

Approved by : Robert Chang
Tech Manager

Date : 2011.09.14

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Version

Version No.	Date	Description
1.0	Jun. 29, 2011	Initial issue of report
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1.3	Aug. 27, 2011	3 rd modification
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1. General Information

1.1 Testing Laboratory

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Fax	+886-2-2298-0488
Internet	http://www.tw.sgs.com/

1.2 Details of Applicant

Company Name	Motorola Mobility, Inc.
Company Address	600 North U.S. Highway 45, Libertyville, IL 60048-5343
Contact Person	Doug Hammers
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1.3 Description of EUT

EUT Name	Edison
Model Name	MB865
IMEI Code	356378040035586
FCC ID	IHDT56MV1
Mode of Operation	GSM/GPRS/EDGE/WCDMA/HSDPA/ HSUPA/WLAN802.11 b/g/n(H20) band

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Definition	Production unit				
Duty Cycle	GSM	GPRS/ EDGE		WCDMA	WLAN 802.11 b/g/n(H20)
	1/8.3	1/2;1/4; 1/2.76;1/8.3		1	1
		MS Class B			
TX Frequency Range (MHz)	GSM850	GSM1900	WCDMA Band II	WCDMA Band V	WLAN 802.11 b/g/n (H20)
	824.2- 848.8	1850.2- 1909.8	1852.4- 1907.6	826.4- 846.6	2412- 2462
Channel Number (ARFCN)	GSM850	GSM1900	WCDMA Band II	WCDMA Band V	WLAN 802.11 b/g/n (H20)
	128- 251	512- 810	9262- 9538	4132- 4233	1-11
VOIP Function	Yes				

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Max. SAR Measured (1 g)	GSM850		
	Head	WIFI Hotspot mode	Body-Worn
	0.386mW/g (At GSM 850 Left Head (Cheek Position)_ 251 Channel)	0.648mW/g (At GPRS 850 _Left side_ 190 channl)	0.541mW/g (At GPRS 850 _Back side_ 190 channl)
	GSM1900		
	Head	WIFI Hotspot mode	Body-Worn
	0.595 mW/g (At GSM 1900 Left Head (Cheek Position)_ 661 channel)	1.17mW/g (At GPRS 1900 _ Bottom side_661 channel)	0.451mW/g (At GPRS 1900 _ Back side_661 channel)
	WCDMA Band II		
	Head	WIFI Hotspot mode	Body-Worn
	1.01mW/g (At WCDMA Band II _Left Head (Cheek Position) _9400 channel)	1.29 mW/g (At WCDMA Band II _ Bottom side_ 9400 channel)	1.15mW/g (At WCDMA Band II _ Back side_ 9262 channel)
	WCDMA Band V		
	Head	WIFI Hotspot mode	Body-Worn
	0.382mW/g (At WCDMA Band V _Left Head (Cheek Position)_ 4183 channel)	0.631mW/g (At WCDMA Band V _Left side_ 4183 channel)	0.470mW/g (At WCDMA Band V _Back side_ 4183 channel)
	WLAN802.11 b		
	Head	WIFI Hotspot mode	Body-Worn
	0.441mW/g (At WLAN802.11 b _Left Head (Cheek Position)_ 1 channel)	0.296mW/g (At WLAN802.11b _ Right side_ 6 channel _repeated with memory card)	0.222mW/g (At WLAN802.11b _ Back side_ 6 channel)

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#. GSM/GPRS/EDGE conducted power table:

GSM850	Burst average power	Source-based time- averaged
CH 128	33.30	24.27
CH 190	33.30	24.27
CH 251	33.20	24.17

Burst average power				
GPRS850	1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP
CH 128	33.20	31.00	29.00	27.00
CH 190	33.30	31.00	29.00	27.10
CH 251	33.20	31.00	29.00	27.00
Source-based time- averaged				
GPRS850	1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP
CH 128	24.17	24.98	24.74	23.99
CH 190	24.27	24.98	24.98	24.09
CH 251	24.17	24.98	24.98	23.99

Burst average power				
EDGE850	1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP
CH 128	27.80	25.80	23.70	21.70
CH 190	27.80	25.90	23.70	21.70
CH 251	27.80	25.80	23.70	21.70
Source-based time- averaged				
EDGE850	1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP
CH 128	18.77	19.78	19.44	18.69
CH 190	18.77	19.88	19.44	18.69
CH 251	18.77	19.78	19.44	18.69

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#. GSM/GPRS/EGPRS conducted power table:

GSM1900	Burst average power	Source-based time-averaged
CH 512	30.70	21.67
CH 661	30.70	21.67
CH 810	30.90	21.87

Burst average power				
GPRS1900	1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP
CH 512	30.70	28.80	26.70	24.70
CH 661	30.70	28.70	26.70	24.70
CH 810	30.90	28.90	26.80	24.90
Source-based time- averaged				
GPRS1900	1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP
CH 512	21.67	22.26	22.44	21.69
CH 661	21.67	22.68	22.44	21.69
CH 810	21.87	22.80	22.54	21.89

Burst average power				
EDGE1900	1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP
CH 512	26.90	25.00	22.90	20.90
CH 661	26.90	25.00	23.00	21.00
CH 810	27.10	25.10	23.10	21.20
Source-based time- averaged				
EDGE1900	1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP
CH 512	17.87	18.89	18.64	17.89
CH 661	17.87	18.89	18.74	17.99
CH 810	18.07	19.08	18.84	18.19

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#. WCDMA Band II & V HSDPA/HSUPA conducted power table:

		WCDMA Band II Channel			WCDMA Band V Channel		
Mode	Subtest	9262	9400	9538	4132	4183	4233
Rel99	R99	23.83	23.73	23.63	23.78	23.91	23.72
HSDPA	1	24	23.62	23.49	23.57	23.77	23.84
	2	23.71	23.59	23.48	23.71	23.8	23.59
	3	23.52	23.17	22.96	23.11	23.29	23.35
	4	23.59	23.18	23.08	23.16	23.33	23.41
HSUPA	1	23.75	23.71	23.57	23.74	23.84	23.64
	2	21.8	21.78	21.61	21.8	21.92	21.68
	3	22.81	22.73	22.65	22.78	22.9	22.72
	4	21.93	21.83	21.65	21.85	21.98	21.76
	5	23.64	23.57	23.48	23.6	23.67	23.53

#. WLAN802.11 b/g/n(H20) conducted power table:

WLAN802.11 b	2412	2437	2462
Peak power	18.17	18.32	18.74
Avg power	15.74	15.77	16.22
WLAN802.11 g	2412	2437	2462
Peak power	18.88	18.35	18.32
Avg power	15.5	14.73	14.84
WLAN802.11 n (20M)	2412	2437	2462
Peak power	18.8	18.12	18.23
Avg power	15.34	14.49	14.68

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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

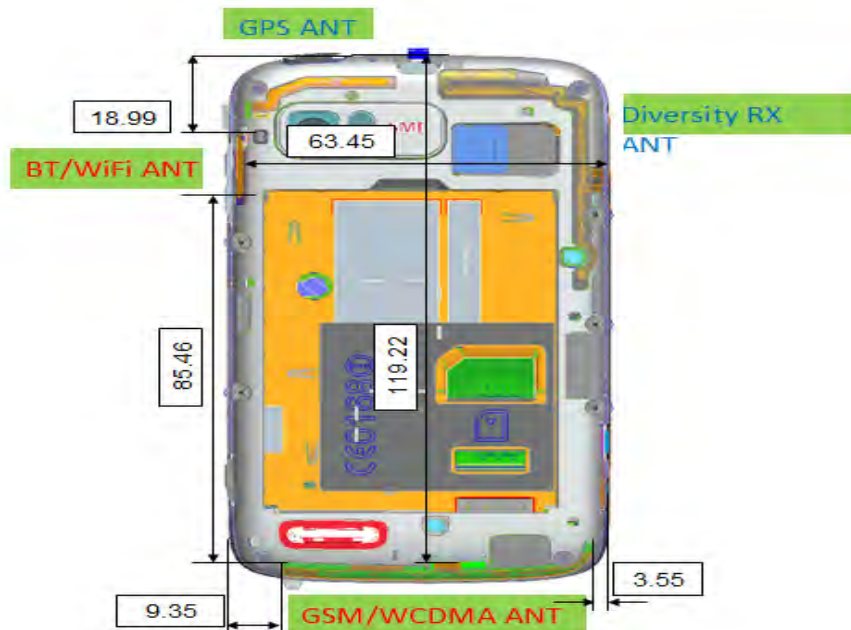
General:

1. The EUT is controlled by using a Radio Communication Tester (R&S CMU200), 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. During the SAR testing, the DASY4 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.
4. Testing Head SAR at lowest, middle and highest channel for all bands with LET/LEC/RET/REC conditions.
5. Body SAR Test configurations:
 - (1) Front side
 - (2) Back side
 - (3) Top side.(WWAN antenna to user distance >25mm_No need SAR)
 - (4) Bottom side. (WLAN antenna to user distance >25mm_No need SAR)
 - (5) Right side.
 - (6) Left side.

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Antenna position of EUT

SAR evaluation considerations for handsets with multiple transmitters:

6. When the maximum transmitter and antenna output power are $\leq 60/f(\text{GHz})$ (mW) SAR evaluation is typically not required for FCC or TCB approval (BT power= 11.73dBm)
7. According to KDB248227-SAR is not required for 802.11 g/HT20/HT40 channels when the maximum average output power is less than 1/4 dB higher than that measured on the corresponding 802.11b channels.
8. According to section 6.3.1 and 6.3.1.2 of KDB941225 D03 to exclude SAR test requirements for EDGE modes due to the source-based time-averaged output power (page 7's conducted power table) for edge mode is lower than that in the GPRS mode.
9. According to KDB941225 D01 to exclude SAR test requirements for HSPA modes due to the maximum average output power of HSPA active is less than 1/4 dB higher than that measured without HSPA using 12.2kbps RMC.
10. Identify the simultaneous transmission conditions for the voice and data configurations supported by all wireless modes, device configurations and frequency bands, for the head and body exposure conditions and device operating

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configurations (handset flip or cover positions, antenna diversity conditions etc.)

Simultaneous TX Modes	UMTS	GPRS/EDGE	802.11b/g/n
1	ON	OFF	ON
2	OFF	ON	ON

11. The VoIP function can be used by third party software applications, therefore user may hold this device close to ear when talk via VoIP. We test Head SAR for the pure data mode(GPRS)

12. **Body (Hotsopt mode):** The highest 1-g SAR for WLAN is 0.222 W/kg(Hotspot mode_Back side) and the highest 1-g SAR for WWAN is 1.15W/kg(Body worn_Back side). The sum of 1-g for simultaneous transmitting WLAN and WWAN antenna pair is $0.222+1.15 = 1.372 \text{ W/kg} < 1.6 \text{ W/kg}$. According to KDB648474/ KDB447498 /KDB248227 Simultaneous SAR evaluation is not required.

Head: The highest 1-g SAR for WLAN is 0.441W/kg(Left Head (Cheek Position))and the highest 1-g SAR for WWAN is 1.01W/kg(Left Head (Cheek Position)). The sum of 1-g for simultaneous transmitting WLAN and WWAN antenna pair is $0.441+1.01 = 1.451 \text{ W/kg} < 1.6 \text{ W/kg}$. According to KDB648474/ KDB447498 /KDB248227 Simultaneous SAR evaluation is not required.

Additional configuration(Head):

13. For highest SAR configuration in this band repeated with external Memory card inside.

Additional configuration(Body):

14. For highest SAR configuration in this band repeated with external Memory card inside.

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15. Reduced Radiated Power

To meet the 10mm separation distance for the “Mobile Hotspot” feature, the radiated RF power of WWAN is limited for body-worn operation with Hotspot mode on. But conducted power keep the same as normal talk mode.

The conducted power in source based time averaged method was list in page 8 and 9. The Normal radiated power and reduced radiated power are listed in below table, which are measured by “TRP (Total Radiated Power) “ method.

Due to Antenna Gain and Conducted power are not changed, only the antenna matching is changed. Using traditional EIRP method ($EIRP = \text{conducted power} + \text{antenna gain}$) to judge the difference of radiated power before and after the power cut-off are not practical. Instead, we use CTIA “Test plan for mobile station Over The Air performance” version v2.2.2 to measure the 3-dimensional performance of antenna, and get the Total radiated power value, which shows total radiated power in the space.

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As shown in the table , The reduced amount is around 1db in GSM1900 band , and around 3 db in WCDMA Band II. It will also be noted in Sec.2 of this report.

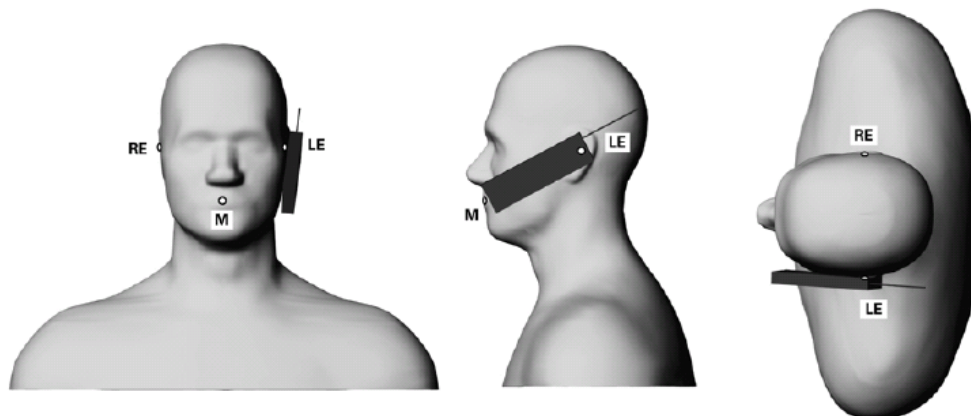
Band	Freq (MHz)	Channel	Reduced Power	Normal Power	Normal power - reduction amount(dbm)
		(ARFCN)	TRP(dbm)	TRP(dbm)	
GSM850	824.2	128	27.26	27.11	27.11 -0
	836.6	190	28.04	27.99	27.99 - 0
	848.8	251	28.55	28.61	28.61 - 0
GSM1900	1850.2	512	25.73	26.64	26.64 - 0.91
	1880	661	25.65	26.68	26.68 - 1.03
	1909.8	810	24.87	25.81	25.81 - 0.94
WCDMA Band II	1852.4	9262	19.61	22.48	22.48 - 2.87
	1880	9400	18.14	21.28	21.28 - 3.14
	1907.6	9538	17.22	20.25	20.25 - 3.03
WCDMA Band V	826.4	4132	19.31	19.27	19.27 - 0
	836.6	4183	19.9	19.86	19.86 - 0
	846.6	4233	19.39	19.48	19.48 - 0

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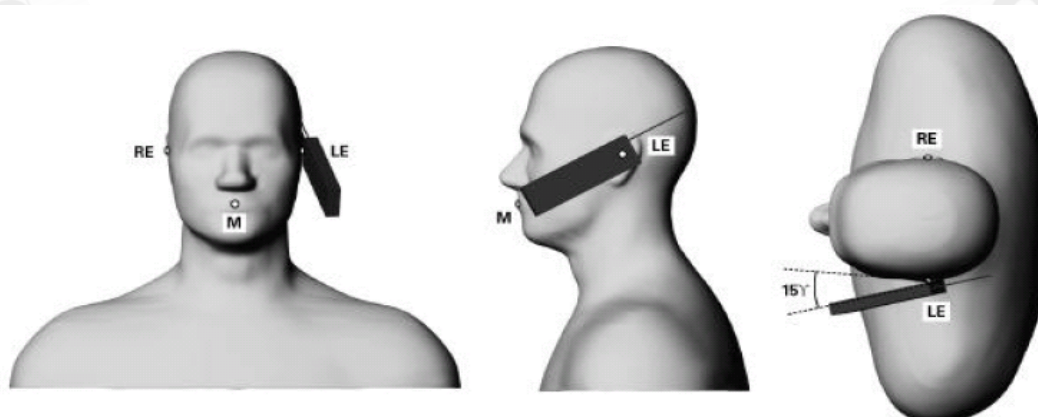
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1.6 Positioning Procedure



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

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is based on splines in two or three dimensions. The procedure can find the maximum 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 then 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.

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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 4 professional system). A Model EX3DV4/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.

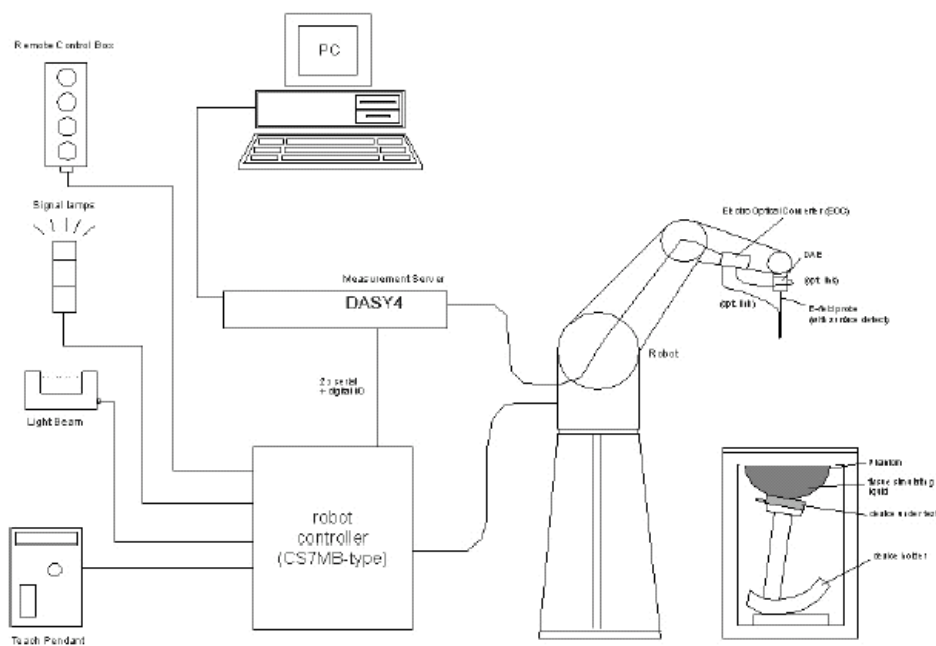


Fig.a The block diagram of SAR system

The DASY4 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

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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 positioning.
 - A computer operating Windows 2000 or Windows XP.
 - DASY4 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.

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1.9 System Components

EX3DV4/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 HSL835/1900/2450MHz Additional CF for other liquids and frequencies upon request	
Frequency:	10 MHz to > 6 GHz; Linearity: ± 0.2 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: ± 0.2 dB (noise: typically < 1 μ W/g)	
Dimensions:	Overall length: 330 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm	
Application:	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.	

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SAM PHANTOM V4.0C

Construction:	The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528-200X, CENELEC 50361 and IEC 62209. 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.	
Shell Thickness:	2 ± 0.2 mm	
Filling Volume:	Approx. 25 liters	
Dimensions:	Height: 251 mm; Length: 1000 mm; Width: 500 mm	

DEVICE HOLDER

Construction	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).	 Device Holder
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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 $\pm 5\%$ from the target SAR values.

These tests were done at 835/1900/2450 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.

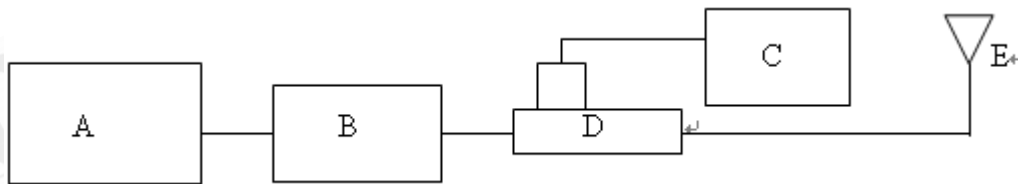
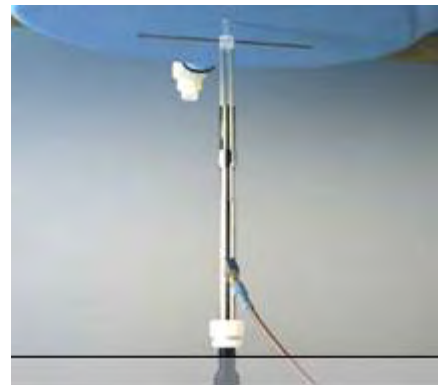


Fig.b The block diagram of system verification

- 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)	2.31 mW/g	2.34mW/g	2011-06-06
D835V2 S/N: 4d063	835 MHz (Body)	2.43 mW/g	2.47mW/g	2011-06-06
D1900V2 S/N: 5d027	1900 MHz (Head)	10.1 mW/g	9.98mW/g	2011-06-08
D1900V2 S/N: 5d027	1900 MHz (Body)	9.93 mW/g	9.85mW/g	2011-06-09
D2450V2 S/N: 727	2450 MHz (Head)	13.7 mW/g	13.2mW/g	2011-06-11
D2450V2 S/N: 727	2450 MHz (Body)	12.7 mW/g	12.6mW/g	2011-06-11
D835V2 S/N: 4d063	835 MHz (Body)	2.43 mW/g	2.46mW/g	2011-08-22
D1900V2 S/N: 5d027	1900 MHz (Body)	9.93 mW/g	9.95mW/g	2011-08-22
D835V2 S/N: 4d063	835 MHz (Head)	2.31 mW/g	2.25mW/g	2011-09-13
D1900V2 S/N: 5d027	1900 MHz (Head)	10.1 mW/g	9.71mW/g	2011-09-13

Table 1. System validation (follow manufacture target value)

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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).

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

Frequency (MHz)	Tissue type	Measurement date/ Limits	Dielectric Parameters		
			ϵ_r	σ (S/m)	Simulated Tissue Temperature(° C)
835	Head	Measured, 2011-06-06	41.4	0.917	21.7
		Recommended Limits	38.38-42.42	0.84-0.92	20-24
835	Body	Measured, 2011-06-06	56.2	1.01	21.7
		Recommended Limits	51.21-56.60	0.95-1.05	20-24
1900	Head	Measured, 2011-06-08	39.5	1.47	21.7
		Recommended Limits	36.96-40.85	1.34-1.48	20-24
1900	Body	Measured, 2011-06-09	53	1.57	21.7
		Recommended Limits	48.55-53.66	1.44-1.60	20-24
2450	Head	Measured, 2011-06-11	37.9	1.79	21.7
		Recommended Limits	36.77-40.64	1.63-1.81	20-24
2450	Body	Measured, 2011-06-11	52.1	1.97	21.7
		Recommended Limits	48.07-53.13	1.81-2.01	20-24
835	Body	Measured, 2011-08-22	55.3	1.02	21.7
		Recommended Limits	51.21-56.60	0.95-1.05	20-24
1900	Body	Measured, 2011-08-22	51.4	1.60	21.7
		Recommended Limits	48.55-53.66	1.44-1.60	20-24
835	Head	Measured, 2011-09-13	41.9	0.896	21.7
		Recommended Limits	38.38-42.42	0.84-0.92	20-24
1900	Head	Measured, 2011-09-13	40.6	1.42	21.7
		Recommended Limits	36.96-40.85	1.34-1.48	20-24

Table 2. Dielectric Parameters of Tissue Simulant Fluid

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The composition of the brain tissue simulating liquid:

Ingredient	850MHz (Head)	850MHz (Body)	1900MHz (Head)	1900MHz (Body)	2450MHz (Head)	2450MHz (Body)
DGMBE	X	X	444.52 g	300.67g	550ml	301.7ml
Water	532.98 g	631.68 g	552.42 g	716.56 g	450ml	698.3ml
Salt	18.3 g	11.72 g	3.06 g	4.0 g	X	X
Preventol D-7	2.4 g	1.2 g	X	X	X	X
Cellulose	3.2 g	X	X	X	X	X
Sugar	766.0 g	600 g	X	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)	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

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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 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

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	190	836.6	24.27dBm	0.303	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	24.27dbm	0.278	22.1	21.7
	190	836.6	24.27dbm	0.344	22.1	21.7
	251	848.8	24.17dBm	0.386	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	190	836.6	24.27dbm	0.190	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	190	836.6	24.27dbm	0.222	22.1	21.7

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Hotspot mode _Front side (testing in GPRS mode) _multi class 10 _test distance is 10mm, Radiated power (EIRP) is not reduced.

Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
850 MHz	190	836.6	24.98dbm	0.474	22.1	21.7

Hotspot mode _Back side (testing in GPRS mode) _multi class 10 _test distance is 10mm, Radiated power (EIRP) is not reduced.

Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
850 MHz	190	836.6	24.98dbm	0.638	22.1	21.7

Hotspot mode _Bottom side (testing in GPRS mode) _multi class 10 _test distance is 10mm, Radiated power (EIRP) is not reduced.

Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
850 MHz	190	836.6	24.98dbm	0.058	22.1	21.7

Hotspot mode _Right side (testing in GPRS mode) _multi class 10 _test distance is 10mm, Radiated power (EIRP) is not reduced.

Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
850 MHz	190	836.6	24.98dbm	0.436	22.1	21.7

Hotspot mode _Left side (testing in GPRS mode) _multi class 10 _test distance is 10mm, Radiated power (EIRP) is not reduced.

Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
850 MHz	190	836.6	24.98dbm	0.648	22.1	21.7

Hotspot mode _Left side (testing in GPRS mode) _multi class 8 _test distance is 10mm, Radiated power (EIRP) is not reduced.

Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
850 MHz	190	836.6	24.27dbm	0.574	22.1	21.7

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Hotspot mode _Left side (testing in GPRS mode) _multi class 12_test distance is 10mm, Radiated power (EIRP) is not reduced.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
850 MHz	190	836.6	24.09dBm	0.520	22.1	21.7
Body worn _Front side (testing in GPRS mode) _multi class 10_test distance is 15mm, Radiated power (EIRP) is not reduced.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
850 MHz	190	836.6	24.09dBm	0.414	22.1	21.7
Body worn _Back side (testing in GPRS mode) _multi class 10_test distance is 15mm, Radiated power (EIRP) is not reduced.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
850 MHz	190	836.6	24.09dBm	0.541	22.1	21.7
Right Head (Cheek Position)_(testing in GPRS mode) _multi-class 10						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
850 MHz	190	836.6	24.98dBm	0.330	22.1	21.7
Left Head (Cheek Position) _ (testing in GPRS mode) _multi-class 10						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
850 MHz	190	836.6	24.98dBm	0.374	22.1	21.7
Right Head (15° Tilt Position) _ (testing in GPRS mode) _multi-class 10						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
850 MHz	190	836.6	24.98dBm	0.232	22.1	21.7
Left Head (15° Tilt Position) _ (testing in GPRS mode) _multi-class 10						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
850 MHz	190	836.6	24.98dBm	0.252	22.1	21.7

#. According to section 6.3.1 and 6.3.1.2 of KDB941225 D03 to exclude SAR test requirements for EDGE modes due to the source-based time-averaged output power(page

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7's conducted power table) for edge mode is lower than that in the GPRS mode.

- #. According to KDB447498 the 1-g SAR for the highest output channel is less than 0.8 W/kg, where the transmission band corresponding to all channels is ≤ 100 MHz, testing for the other channels is not required.
- #. The VoIP function can be used by third party software applications, therefore user may hold this device close to ear when talk via VoIP. We test Head SAR for the pure data mode(GPRS).

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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	661	1880	21.67dbm	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]
1900 MHz	512	1850.2	21.67dbm	0.416	22.1	21.7
	661	1880	21.67dbm	0.481	22.1	21.7
	810	1909.8	21.87dBm	0.425	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	661	1880	21.67dbm	0.176	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	661	1880	21.67dbm	0.149	22.1	21.7

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Hotspot mode _Front side (testing in GPRS mode) _multi class 10_test distance is 10mm, Radiated power (EIRP) is reduced for 1 dbm						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	661	1880	22.68dbm	0.465	22.1	21.7
Hotspot mode _Back side (testing in GPRS mode) _multi class 10_test distance is 10mm, Radiated power (EIRP) is reduced for 1 dbm						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	512	1850.2	22.26dBm	0.910	22.1	21.7
	661	1880	22.68dbm	0.899	22.1	21.7
	810	1909.8	22.80dBm	0.740	22.1	21.7
Hotspot mode _Bottom side (testing in GPRS mode) _multi class 10_test distance is 10mm, Radiated power (EIRP) is reduced for 1 dbm						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	512	1850.2	22.26dBm	1.05	22.1	21.7
	661	1880	22.68dbm	1.17	22.1	21.7
	810	1909.8	22.80dBm	0.944	22.1	21.7
Hotspot mode _Right side (testing in GPRS mode) _multi class 10_test distance is 10mm, Radiated power (EIRP) is reduced for 1 dbm						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	661	1880	22.68dbm	0.053	22.1	21.7
Hotspot mode _Left side (testing in GPRS mode) _multi class 10_test distance is 10mm, Radiated power (EIRP) is reduced for 1 dbm						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	661	1880	22.68dbm	0.441	22.1	21.7

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Hotspot mode _Bottom side (testing in GPRS mode) _multi class 8_test distance is 10mm, Radiated power (EIRP) is reduced for 1 dbm

Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	512	1850.2	21.67dbm	0.818	22.1	21.7
	661	1880	21.67dbm	0.873	22.1	21.7
	810	1909.8	21.87dBm	0.687	22.1	21.7

Hotspot mode _Bottom side (testing in GPRS mode) _multi class 12_test distance is 10mm, Radiated power (EIRP) is reduced for 1 dbm

Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	512	1850.2	24.70dBm	0.824	22.1	21.7
	661	1880	24.70dBm	0.874	22.1	21.7
	810	1909.8	24.90dBm	0.697	22.1	21.7

Body worn _Front side (testing in GPRS mode) _multi class 10_test distance is 15mm

Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	661	1880	24.70dBm	0.239	22.1	21.7

Body worn _Back side (testing in GPRS mode) _multi class 10_test distance is 15mm

Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	661	1880	24.70dBm	0.451	22.1	21.7

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Right Head (Cheek Position)_(testing in GPRS mode)_multi-class 10

Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	661	1880	22.68dBm	0.347	22.1	21.7

Left Head (Cheek Position)_(testing in GPRS mode)_multi-class 10

Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	661	1880	22.68dBm	0.595	22.1	21.7

Right Head (15° Tilt Position)_(testing in GPRS mode)_multi-class 10

Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	661	1880	22.68dBm	0.193	22.1	21.7

Left Head (15° Tilt Position)_(testing in GPRS mode)_multi-class 10

Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	661	1880	22.68dBm	0.191	22.1	21.7

- #. Using KDB941225 D03 and KDB941225 D04 to exclude SAR test requirements for EDGE modes due to the source-based time-averaged output power for edge mode is lower than that in the GPRS mode.
- #. According to KDB447498 the 1-g SAR for the highest output channel is less than 0.8 W/kg, where the transmission band corresponding to all channels is ≤ 100 MHz, testing for the other channels is not required.
- #. The VoIP function can be used by third party software applications, therefore user may hold this device close to ear when talk via VoIP. We test Head SAR for the pure data mode(GPRS).

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WCDMA Band II

Right Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	9400	1880.00	23.73dBm	0.681	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	9262	1852.40	23.83dBm	1.00	22.1	21.7
	9400	1880.00	23.73dBm	1.01	22.1	21.7
	9538	1907.60	23.63dBm	0.941	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	9400	1880.00	23.73dBm	0.318	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	9400	1880.00	23.73dBm	0.281	22.1	21.7
(For highest SAR configuration in this band)						
Left Head (Cheek Position)_repeated with memory card						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	9400	1880.00	23.73dBm	0.987	22.1	21.7

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Hotspot mode _Front side (testing in R99 mode) _test distance is 10mm, Radiated power (EIRP) is reduced for 3 dbm						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	9262	1852.40	23.83dBm	1.06	22.1	21.7
	9400	1880.00	23.73dBm	0.825	22.1	21.7
	9538	1907.60	23.63dBm	0.583	22.1	21.7
Hotspot mode _Back side (testing in R99 mode) _test distance is 10mm ,Radiated power (EIRP) is reduced for 3 dbm						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	9262	1852.40	23.83dBm	1.08	22.1	21.7
	9400	1880.00	23.73dBm	0.992	22.1	21.7
	9538	1907.60	23.63dBm	0.762	22.1	21.7
Hotspot mode _Bottom side (testing in R99 mode) _test distance is 10mm ,Radiated power (EIRP) is reduced for 3 dbm						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	9262	1852.40	23.83dBm	1.25	22.1	21.7
	9400	1880.00	23.73dBm	1.29	22.1	21.7
	9538	1907.60	23.63dBm	1.04	22.1	21.7
Hotspot mode _Right side (testing in R99 mode) _test distance is 10mm ,Radiated power (EIRP) is reduced for 3 dbm						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	9400	1880.00	23.73dBm	0.076	22.1	21.7
Hotspot mode _Left side (testing in R99 mode) _test distance is 10mm ,Radiated power (EIRP) is reduced for 3 dbm						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	9400	1880.00	23.73dBm	0.752	22.1	21.7

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(For highest SAR configuration in this band)
Hotspot mode_ Bottom side(testing in R99 mode)_repeated with headset _test distance is 10mm

Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	9400	1880.00	23.73dBm	1.08	22.1	21.7

(For highest SAR configuration in this band)
Hotspot mode_ Bottom side(testing in R99 mode)_repeated with memory card _test distance is 10mm ,Radiated power (EIRP) is reduced for 3 dbm

Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	9400	1880.00	23.73dBm	1.23	22.1	21.7

Body worn _Front side (testing in R99 mode) _test distance is 15mm

Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	9400	1880.00	23.73dBm	0.386	22.1	21.7

Body worn _Back side (testing in R99 mode) _test distance is 15mm

Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	9262	1852.40	23.83dBm	1.15	22.1	21.7
	9400	1880.00	23.73dBm	1.12	22.1	21.7
	9538	1907.60	23.63dBm	0.845	22.1	21.7

#. Using KDB941225 D01 to exclude SAR test requirements for HSPA modes due to the maximum average output power of HSPA active is less than 1/4 dB higher than that measured without HSPA using 12.2kbps RMC

#. According to KDB447498 the 1-g SAR for the highest output channel is less than 0.8 W/kg, where the transmission band corresponding to all channels is ≤ 100 MHz, testing for the other channels is not required.

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WCDMA Band V

Right Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
850 MHz	4183	836.60	23.91dBm	0.362	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	4132	826.40	23.78dBm	0.323	22.1	21.7
	4183	836.60	23.91dBm	0.382	22.1	21.7
	4233	846.60	23.72dBm	0.354	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	4183	836.60	23.91dBm	0.230	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	4183	836.60	23.91dBm	0.222	22.1	21.7

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Hotspot mode _Front side (testing in R99 mode) _test distance is 10mm, Radiated power (EIRP) is not reduced.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	4183	836.60	23.91dBm	0.459	22.1	21.7
Hotspot mode _Back side (testing in R99 mode) _test distance is 10mm, Radiated power (EIRP) is not reduced.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	4183	836.60	23.91dBm	0.578	22.1	21.7
Hotspot mode _Bottom side (testing in R99 mode) _test distance is 10mm, Radiated power (EIRP) is not reduced.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	4183	836.60	23.91dBm	0.057	22.1	21.7
Hotspot mode _Right side (testing in R99 mode) _test distance is 10mm, Radiated power (EIRP) is not reduced.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	4183	836.60	23.91dBm	0.404	22.1	21.7
Hotspot mode _Left side (testing in R99 mode) _test distance is 10mm, Radiated power (EIRP) is not reduced.						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	4183	836.60	23.91dBm	0.631	22.1	21.7
Body worn _Front side (testing in R99 mode) _test distance is 15mm						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	4183	836.60	23.91dBm	0.401	22.1	21.7
Body worn _Back side (testing in R99 mode) _test distance is 15mm						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	4183	836.60	23.91dBm	0.470	22.1	21.7

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- #. Using KDB941225 D01 to exclude SAR test requirements for HSPA modes due to the maximum average output power of HSPA active is less than 1/4 dB higher than that measured without HSPA using 12.2kbps RMC
- #. According to KDB447498 the 1-g SAR for the highest output channel is less than 0.8 W/kg, where the transmission band corresponding to all channels is ≤ 100 MHz, testing for the other channels is not required.

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WLAN802.11 b

Right Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450 MHz	6	2437	15.77dBm	0.189	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]
2450 MHz	1	2412	15.74dBm	0.441	22.1	21.7
	6	2437	15.77dBm	0.412	22.1	21.7
	11	2462	16.22dBm	0.350	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]
2450 MHz	6	2437	15.77dBm	0.113	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]
2450 MHz	6	2437	15.77dBm	0.283	22.1	21.7
Left Head (Cheek Position)_repeated with memory card						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450 MHz	1	2412	15.74dBm	0.423	22.1	21.7

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Hotspot mode _Front side_ test distance is 10mm						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450 MHz	6	2437	15.77dBm	0.110	22.1	21.7
Hotspot mode _Back side_ test distance is 10mm						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450 MHz	6	2437	15.77dBm	0.222	22.1	21.7
Hotspot mode _Top side_ test distance is 10mm						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450 MHz	6	2437	15.77dBm	0.041	22.1	21.7
Hotspot mode _Right side_ test distance is 10mm						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450 MHz	6	2437	15.77dBm	0.286	22.1	21.7
Hotspot mode _Left side_ test distance is 10mm						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450 MHz	6	2437	15.77dBm	0.022	22.1	21.7
Hotspot mode _Right side_ test distance is 10mm_repeated with headset						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450 MHz	6	2437	15.77dBm	0.290	22.1	21.7
Hotspot mode _Right side_ test distance is 10mm_repeated with memory card						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450 MHz	6	2437	15.77dBm	0.296	22.1	21.7

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- #. Using **KDB248227**-SAR is not required for 802.11 g/HT20 channels when the maximum average output power is less than 1/4 dB higher than that measured on the corresponding 802.11b channels.
- #. According to KDB447498 the 1-g SAR for the highest output channel is less than 0.8 W/kg, where the transmission band corresponding to all channels is ≤ 100 MHz, testing for the other channels is not required.

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3. Instruments List

Manufacturer	Device	Type	Serial number	Date of last calibration
Schmid & Partner Engineering AG	Dosimetric E-Field Probe	EX3DV4 ES3DV3	3770 3071	Apr.19.2011 Jun.22.2011
Schmid & Partner Engineering AG	835 /1900 /2450 MHz System Validation Dipole	D835V2	4d063	May.25.2011
		D1900V2	5d027	Apr.19.2011
		D2450V2	727	Apr.19.2011
Schmid & Partner Engineering AG	Data acquisition Electronics	DAE4	547 679	Aug.18.2010 Jun.24.2011
Schmid & Partner Engineering AG	Software	DASY 4 V4.7 Build 80	N/A	Calibration not required
Schmid & Partner Engineering AG	Phantom	SAM	N/A	Calibration not required
HP	Network Analyzer	8753D	3410A05547	Mar.16.2011
HP	Dielectric Probe Kit	85070D	US01440168	Calibration not required
Agilent	Dual-directional coupler	778D	50313	Aug.25.2010 Aug.19.2011
		777D	50114	Aug.25.2010 Aug.18.2011
Agilent	RF Signal Generator	8648D	3847M00432	Jun.01.2011
Agilent	Power Sensor	U2001B	MY48100169	Apr.28.2011
R&S	Radio Communication Test	CMU200	113505	May.31.2011
R&S	Radio Communication Test	CMU200	109326	April 1, 2011
SATIMO	Antenna chamber	StarGate 24 system	N/A	Aug.10,2011

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4. Measurements

Date: 2011/6/6

RE Cheek_CH190

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

Medium: Head 835MHz Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.918 \text{ mho/m}$; $\epsilon_r = 41.4$;
 $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3770; ConvF(9.25, 9.25, 9.25); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

HEAD /Area Scan (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.317 mW/g

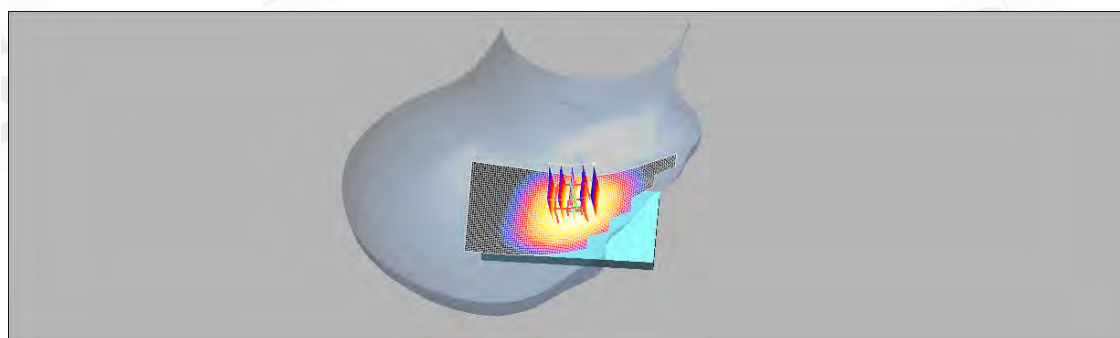
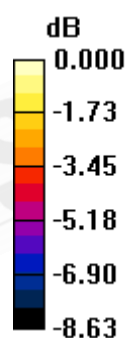
HEAD/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 4.92 V/m; Power Drift = -0.095 dB

Peak SAR (extrapolated) = 0.372 W/kg

SAR(1 g) = 0.303 mW/g; SAR(10 g) = 0.234 mW/g

Maximum value of SAR (measured) = 0.319 mW/g



0 dB = 0.319mW/g

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LE Cheek_CH128

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

Medium: Head 835MHz Medium parameters used (interpolated): $f = 824.2 \text{ MHz}$; $\sigma = 0.905 \text{ mho/m}$; $\epsilon_r = 41.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.25, 9.25, 9.25); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

HEAD/Area Scan (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.295 mW/g

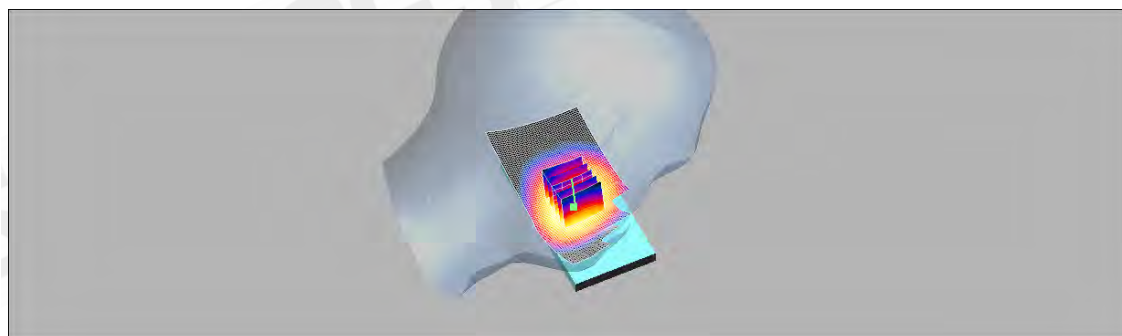
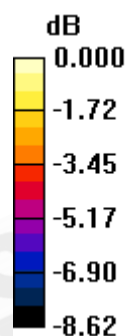
HEAD/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.27 V/m; Power Drift = -0.009 dB

Peak SAR (extrapolated) = 0.337 W/kg

SAR(1 g) = 0.278 mW/g; SAR(10 g) = 0.215 mW/g

Maximum value of SAR (measured) = 0.292 mW/g



0 dB = 0.292mW/g

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Date: 2011/6/6

LE Cheek_CH190

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3
Medium: Head 835MHz Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.918 \text{ mho/m}$; $\epsilon_r = 41.4$;
 $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.25, 9.25, 9.25); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

HEAD/Area Scan (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.360 mW/g

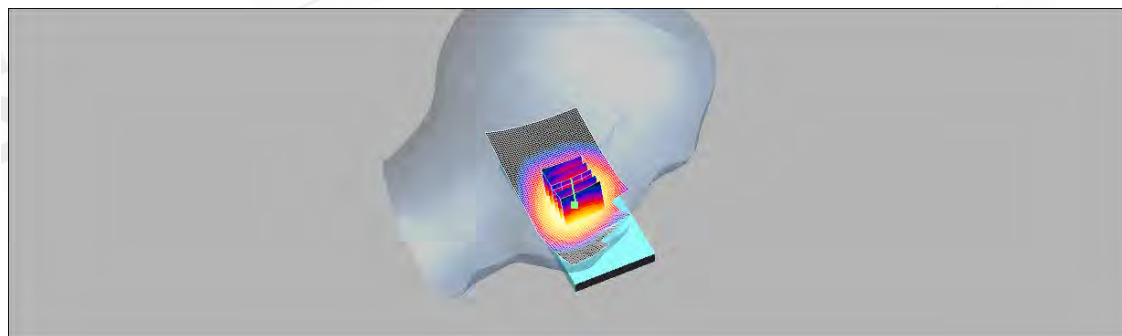
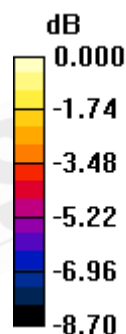
HEAD/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 5.76 V/m ; Power Drift = -0.079 dB

Peak SAR (extrapolated) = 0.420 W/kg

SAR(1 g) = 0.344 mW/g ; SAR(10 g) = 0.263 mW/g

Maximum value of SAR (measured) = 0.362 mW/g



0 dB = 0.362 mW/g

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LE Cheek_CH251

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium: Head 835MHz Medium parameters used: $f = 849$ MHz; $\sigma = 0.93$ mho/m; $\epsilon_r = 41.2$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.25, 9.25, 9.25); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

HEAD/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.407 mW/g

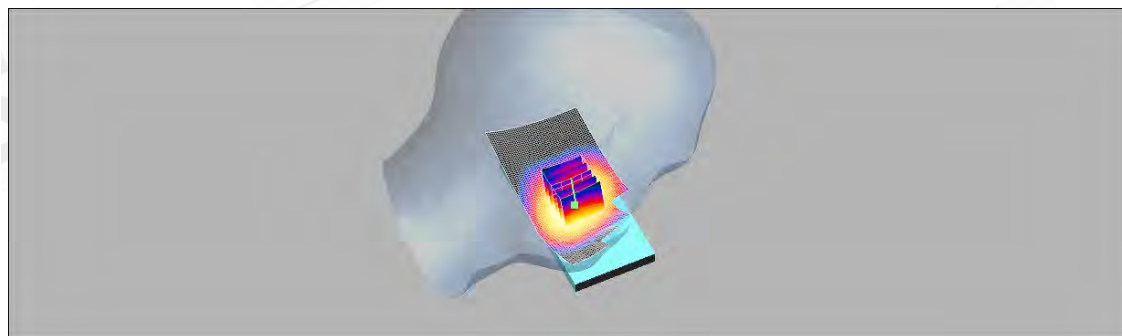
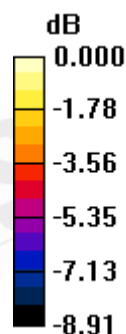
HEAD/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.72 V/m; Power Drift = 0.062 dB

Peak SAR (extrapolated) = 0.475 W/kg

SAR(1 g) = 0.386 mW/g; SAR(10 g) = 0.295 mW/g

Maximum value of SAR (measured) = 0.407 mW/g



0 dB = 0.407mW/g

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RE Tilt_CH190

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

Medium: Head 835MHz Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.918 \text{ mho/m}$; $\epsilon_r = 41.4$;
 $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.25, 9.25, 9.25); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

HEAD/Area Scan (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.197 mW/g

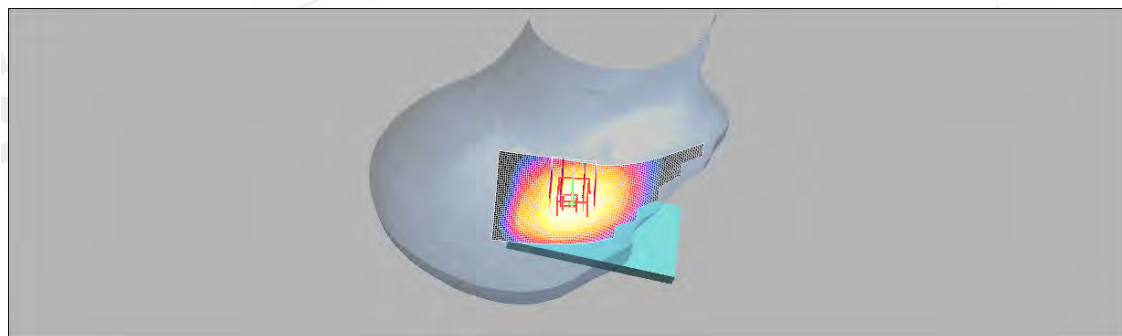
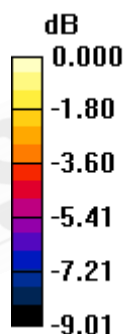
HEAD/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 8.38 V/m; Power Drift = 0.021 dB

Peak SAR (extrapolated) = 0.236 W/kg

SAR(1 g) = 0.190 mW/g; SAR(10 g) = 0.146 mW/g

Maximum value of SAR (measured) = 0.196 mW/g



0 dB = 0.196mW/g

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Date: 2011/6/6

LE Tilt_CH190

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3
Medium: Head 835MHz Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.918 \text{ mho/m}$; $\epsilon_r = 41.4$;
 $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.25, 9.25, 9.25); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

HEAD/Area Scan (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.231 mW/g

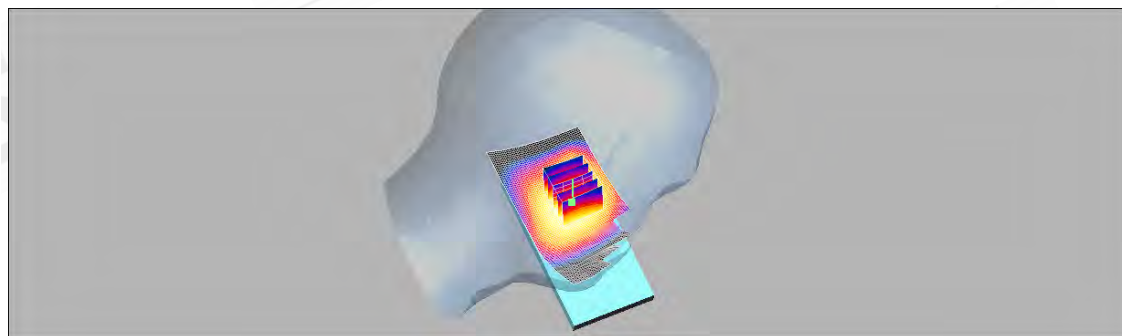
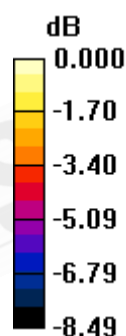
HEAD/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 8.36 V/m; Power Drift = 0.071 dB

Peak SAR (extrapolated) = 0.277 W/kg

SAR(1 g) = 0.222 mW/g; SAR(10 g) = 0.170 mW/g

Maximum value of SAR (measured) = 0.232 mW/g



0 dB = 0.232mW/g

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Date: 2011/6/6

Hotspot mode_Front side_CH190

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:4.1

Medium: Muscle 835 MHz Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 1.01 \text{ mho/m}$; $\epsilon_r = 56.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.3, 9.3, 9.3); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (61x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.497 mW/g

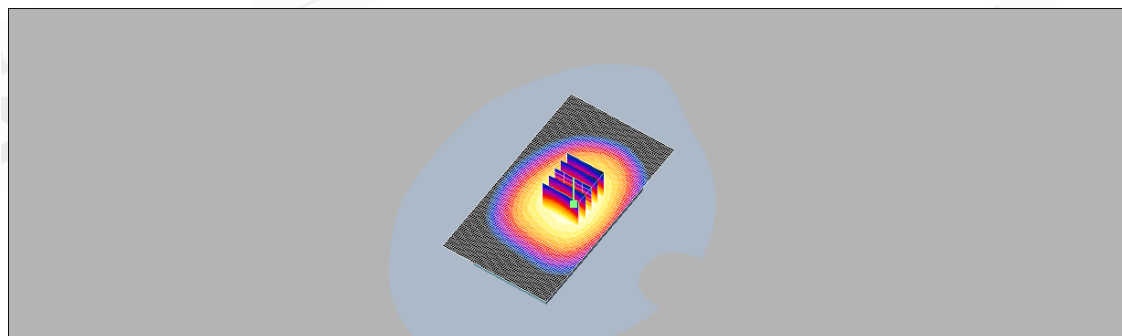
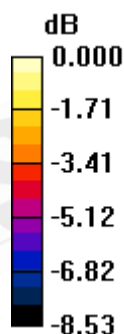
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 21.4 V/m ; Power Drift = -0.029 dB

Peak SAR (extrapolated) = 0.598 W/kg

SAR(1 g) = 0.474 mW/g ; SAR(10 g) = 0.362 mW/g

Maximum value of SAR (measured) = 0.497 mW/g



0 dB = 0.497mW/g

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Hotspot mode_Back side_CH190

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:4.1
Medium: Muscle 835 MHz Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 1.01 \text{ mho/m}$; $\epsilon_r = 56.2$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.3, 9.3, 9.3); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (61x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.667 mW/g

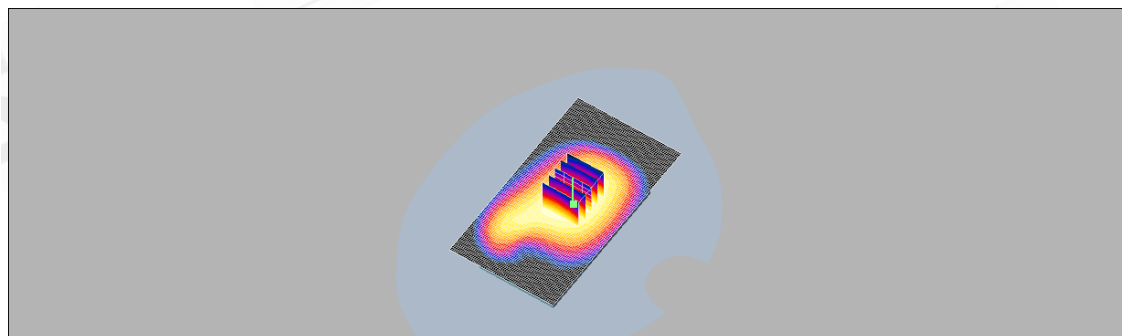
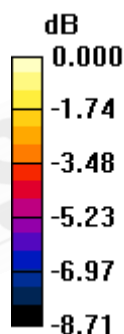
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 24.6 V/m ; Power Drift = -0.029 dB

Peak SAR (extrapolated) = 0.799 W/kg

SAR(1 g) = 0.638 mW/g ; SAR(10 g) = 0.482 mW/g

Maximum value of SAR (measured) = 0.672 mW/g



0 dB = 0.672 mW/g

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Date: 2011/6/6

Hotspot mode_Bottom side_CH190

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:4.1

Medium: Muscle 835 MHz Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 1.01 \text{ mho/m}$; $\epsilon_r = 56.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.3, 9.3, 9.3); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (51x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.065 mW/g

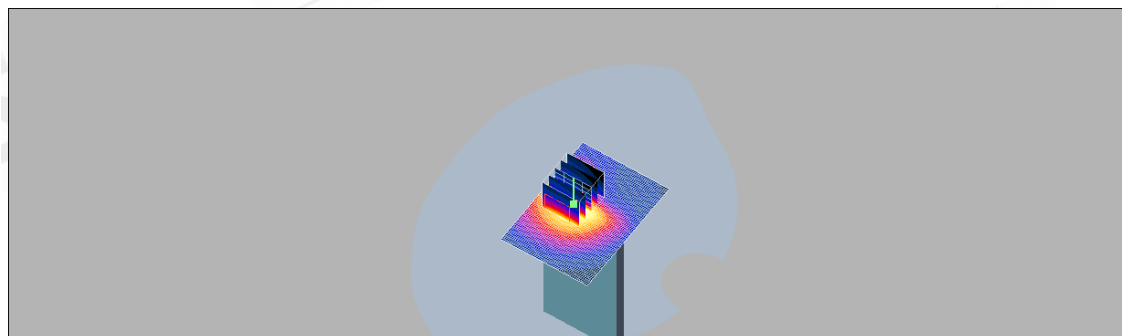
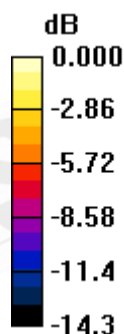
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.62 V/m ; Power Drift = 0.044 dB

Peak SAR (extrapolated) = 0.088 W/kg

SAR(1 g) = 0.058 mW/g ; SAR(10 g) = 0.039 mW/g

Maximum value of SAR (measured) = 0.062 mW/g



0 dB = 0.062 mW/g

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Hotspot mode_Right side_CH190

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:4.1

Medium: Muscle 835 MHz Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 1.01 \text{ mho/m}$; $\epsilon_r = 56.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.3, 9.3, 9.3); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (51x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.463 mW/g

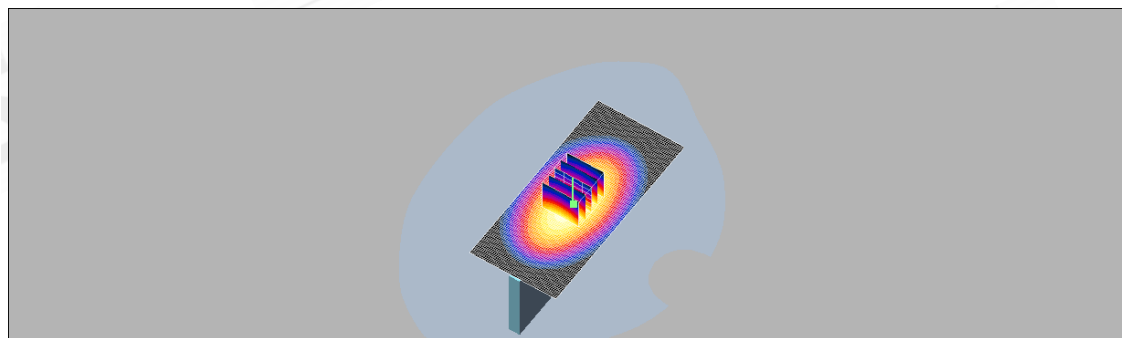
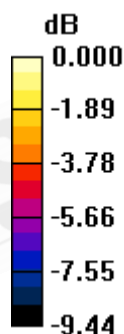
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 21.3 V/m ; Power Drift = -0.031 dB

Peak SAR (extrapolated) = 0.603 W/kg

SAR(1 g) = 0.436 mW/g ; SAR(10 g) = 0.303 mW/g

Maximum value of SAR (measured) = 0.466 mW/g



0 dB = 0.466 mW/g

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Date: 2011/6/6

Hotspot mode_Left side_CH190

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:4.1
Medium: Muscle 835 MHz Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 1.01 \text{ mho/m}$; $\epsilon_r = 56.2$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.3, 9.3, 9.3); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (51x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.694 mW/g

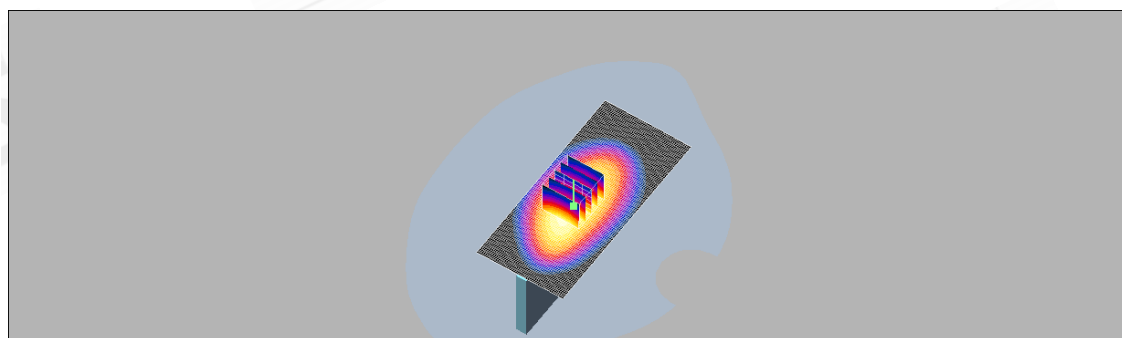
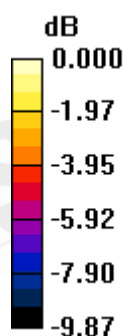
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 25.9 V/m ; Power Drift = 0.029 dB

Peak SAR (extrapolated) = 0.922 W/kg

SAR(1 g) = 0.648 mW/g ; SAR(10 g) = 0.446 mW/g

Maximum value of SAR (measured) = 0.696 mW/g



0 dB = 0.696 mW/g

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Date: 2011/6/6

Hotspot mode_Left side_CH190_multi class 8

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3
Medium: Muscle 835 MHz Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 1.01 \text{ mho/m}$; $\epsilon_r = 56.2$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.3, 9.3, 9.3); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (51x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.588 mW/g

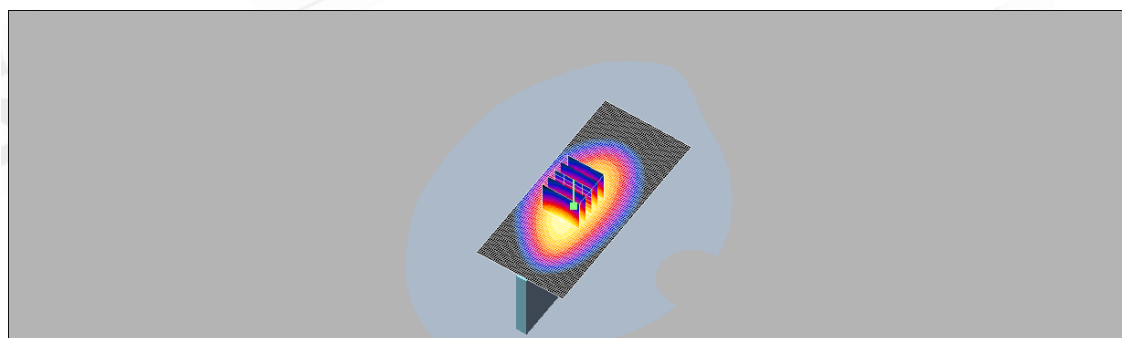
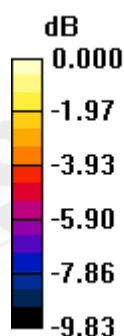
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 23.7 V/m; Power Drift = 0.117 dB

Peak SAR (extrapolated) = 0.805 W/kg

SAR(1 g) = 0.574 mW/g; SAR(10 g) = 0.396 mW/g

Maximum value of SAR (measured) = 0.611 mW/g



0 dB = 0.611mW/g

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Date: 2011/6/6

Hotspot mode_Left side_CH190_multi class 12

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:2

Medium: Muscle 835 MHz Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 1.01 \text{ mho/m}$; $\epsilon_r = 56.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.3, 9.3, 9.3); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (51x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.574 mW/g

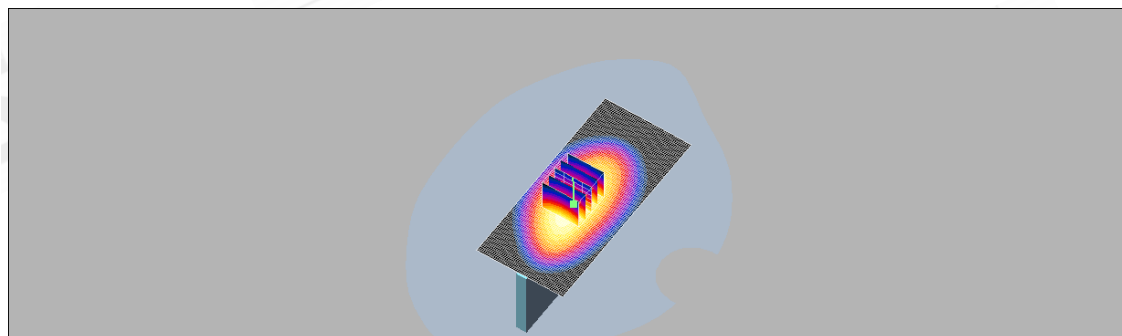
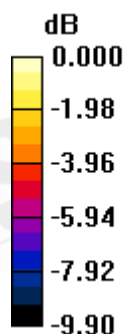
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 23.9 V/m; Power Drift = -0.146 dB

Peak SAR (extrapolated) = 0.735 W/kg

SAR(1 g) = 0.520 mW/g; SAR(10 g) = 0.357 mW/g

Maximum value of SAR (measured) = 0.558 mW/g



0 dB = 0.558mW/g

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Date: 2011/8/22

Body worn_Front side_CH190_multi class 10

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:4.1

Medium: Muscle 835 MHz Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 1.02 \text{ mho/m}$; $\epsilon_r = 55.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.68, 5.68, 5.68); Calibrated: 2011/6/22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2011/6/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (61x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.433 mW/g

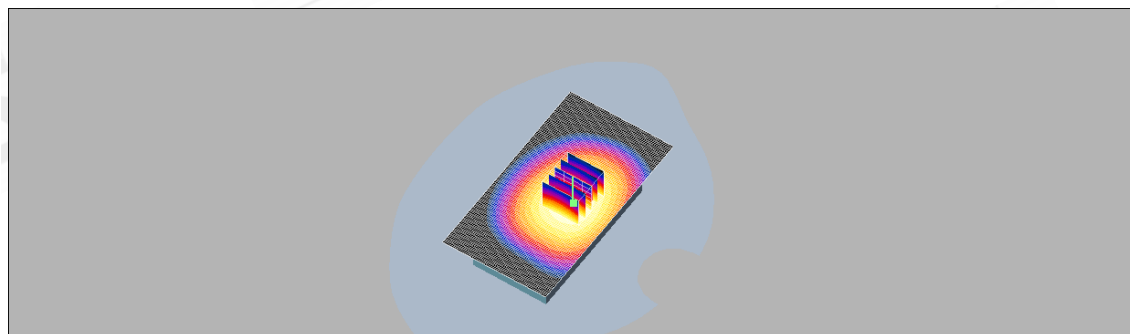
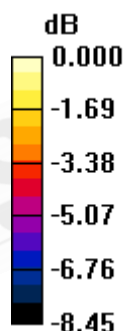
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 20.2 V/m; Power Drift = 0.004 dB

Peak SAR (extrapolated) = 0.524 W/kg

SAR(1 g) = 0.414 mW/g; SAR(10 g) = 0.312 mW/g

Maximum value of SAR (measured) = 0.433 mW/g



0 dB = 0.433mW/g

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Date: 2011/8/22

Body worn_Back side_CH190_multi class 10

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:4.1
Medium: Muscle 835 MHz Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 1.02 \text{ mho/m}$; $\epsilon_r = 55.2$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.68, 5.68, 5.68); Calibrated: 2011/6/22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2011/6/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (61x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.570 mW/g

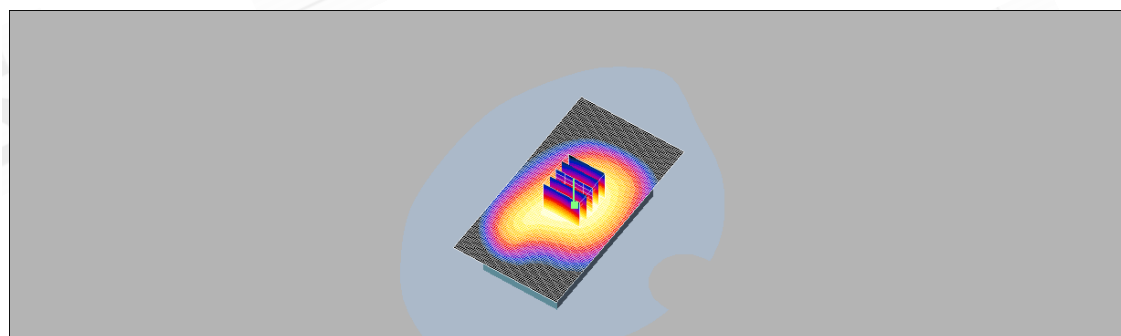
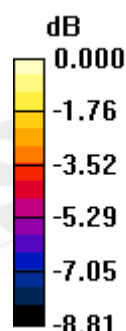
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 23.3 V/m ; Power Drift = -0.022 dB

Peak SAR (extrapolated) = 0.684 W/kg

SAR(1 g) = 0.541 mW/g ; SAR(10 g) = 0.404 mW/g

Maximum value of SAR (measured) = 0.571 mW/g



0 dB = 0.571 mW/g

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RE Cheek_CH190_(test in GPRS mode)

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:4.1

Medium: Head 900 MHz Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.899 \text{ mho/m}$; $\epsilon_r = 41.9$;
 $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.25, 9.25, 9.25); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2011/6/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

HEAD/Area Scan (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.348 mW/g

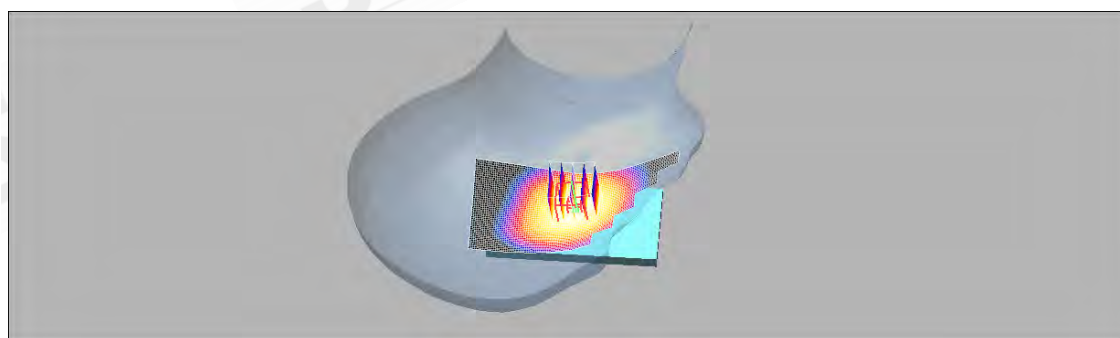
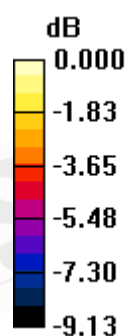
HEAD/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 6.42 V/m; Power Drift = -0.167 dB

Peak SAR (extrapolated) = 0.408 W/kg

SAR(1 g) = 0.330 mW/g; SAR(10 g) = 0.250 mW/g

Maximum value of SAR (measured) = 0.348 mW/g



0 dB = 0.348mW/g

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Date: 2011/9/13

LE Cheek_CH190_(test in GPRS mode)

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:4.1

Medium: Head 900 MHz Medium parameters used: $f = 837$ MHz; $\sigma = 0.899$ mho/m; $\epsilon_r = 41.9$;
 $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.25, 9.25, 9.25); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2011/6/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

HEAD/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.393 mW/g

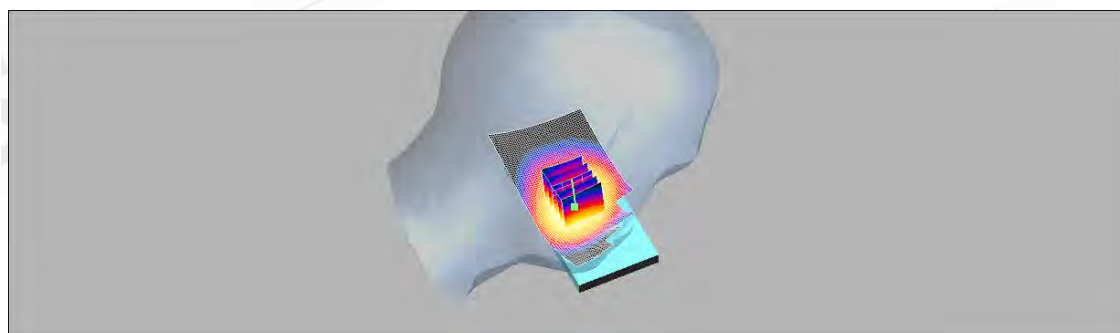
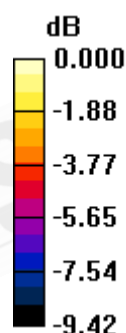
HEAD/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm,
dz=5mm

Reference Value = 7.17 V/m; Power Drift = -0.132 dB

Peak SAR (extrapolated) = 0.474 W/kg

SAR(1 g) = 0.374 mW/g; SAR(10 g) = 0.278 mW/g

Maximum value of SAR (measured) = 0.396 mW/g



0 dB = 0.396mW/g

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Date: 2011/9/13

RE Tilt_CH190_(test in GPRS mode)

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:4.1

Medium: Head 900 MHz Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.899 \text{ mho/m}$; $\epsilon_r = 41.9$;
 $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.25, 9.25, 9.25); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2011/6/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

HEAD/Area Scan (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.239 mW/g

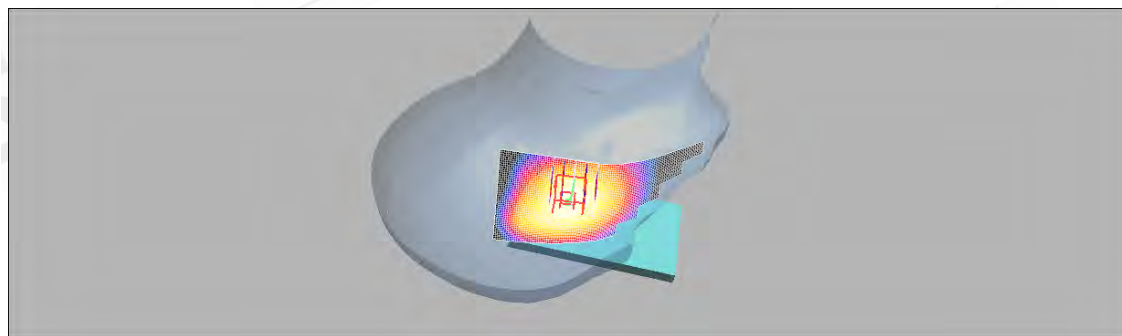
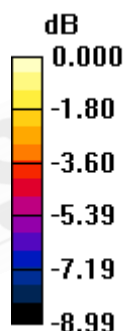
HEAD/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 10.1 V/m ; Power Drift = 0.065 dB

Peak SAR (extrapolated) = 0.296 W/kg

SAR(1 g) = 0.232 mW/g ; SAR(10 g) = 0.174 mW/g

Maximum value of SAR (measured) = 0.242 mW/g



0 dB = 0.242 mW/g

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Date: 2011/9/13

LE Tilt_CH190_(test in GPRS mode)

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:4.1

Medium: Head 900 MHz Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.899 \text{ mho/m}$; $\epsilon_r = 41.9$;
 $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.25, 9.25, 9.25); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2011/6/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

HEAD/Area Scan (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.265 mW/g

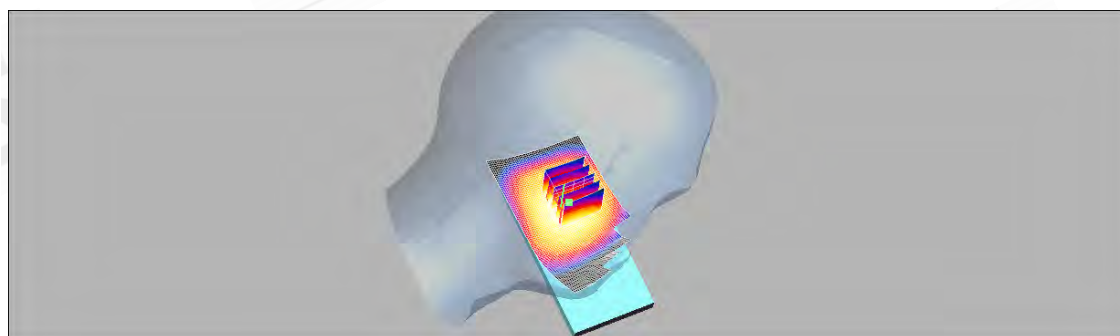
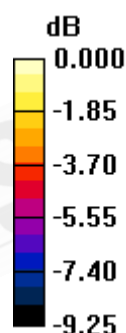
HEAD/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 11.4 V/m ; Power Drift = 0.027 dB

Peak SAR (extrapolated) = 0.322 W/kg

SAR(1 g) = 0.252 mW/g ; SAR(10 g) = 0.190 mW/g

Maximum value of SAR (measured) = 0.265 mW/g



0 dB = 0.265 mW/g

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RE Cheek_CH661

Communication System: GSM1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: Head 1800 MHz Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.45 \text{ mho/m}$; $\epsilon_r = 39.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.78, 7.78, 7.78); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

HEAD/Area Scan (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.345 mW/g

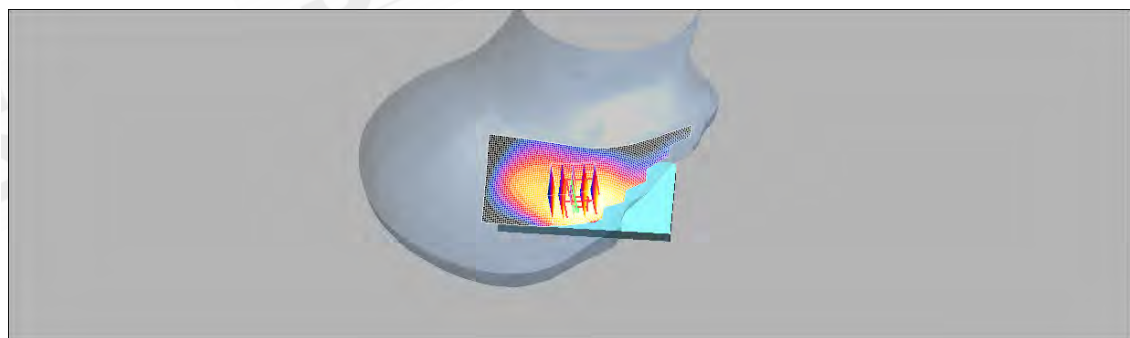
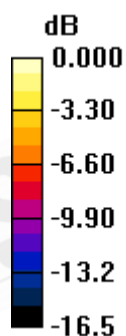
HEAD/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 6.31 V/m; Power Drift = 0.135 dB

Peak SAR (extrapolated) = 0.463 W/kg

SAR(1 g) = 0.312 mW/g; SAR(10 g) = 0.197 mW/g

Maximum value of SAR (measured) = 0.336 mW/g



0 dB = 0.336mW/g

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Date: 2011/6/8

LE Cheek_CH512

Communication System: GSM1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3
Medium: Head 1800 MHz Medium parameters used (interpolated): $f = 1850.2 \text{ MHz}$; $\sigma = 1.42 \text{ mho/m}$; $\epsilon_r = 39.6$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.78, 7.78, 7.78); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

HEAD/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.478 mW/g

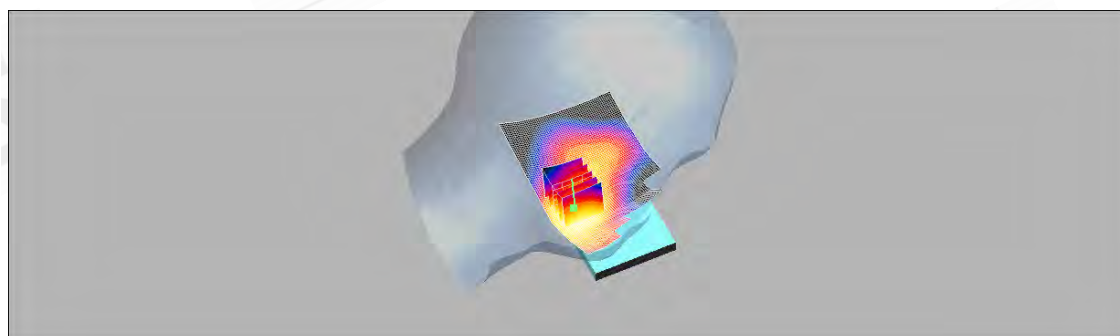
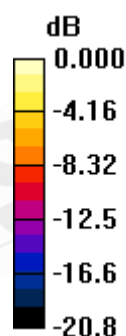
HEAD/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.61 V/m ; Power Drift = 0.168 dB

Peak SAR (extrapolated) = 0.629 W/kg

SAR(1 g) = 0.416 mW/g ; SAR(10 g) = 0.257 mW/g

Maximum value of SAR (measured) = 0.454 mW/g



0 dB = 0.454 mW/g

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Date: 2011/6/8

LE Cheek_CH661

Communication System: GSM1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3
Medium: Head 1800 MHz Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.45 \text{ mho/m}$; $\epsilon_r = 39.5$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.78, 7.78, 7.78); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

HEAD/Area Scan (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.543 mW/g

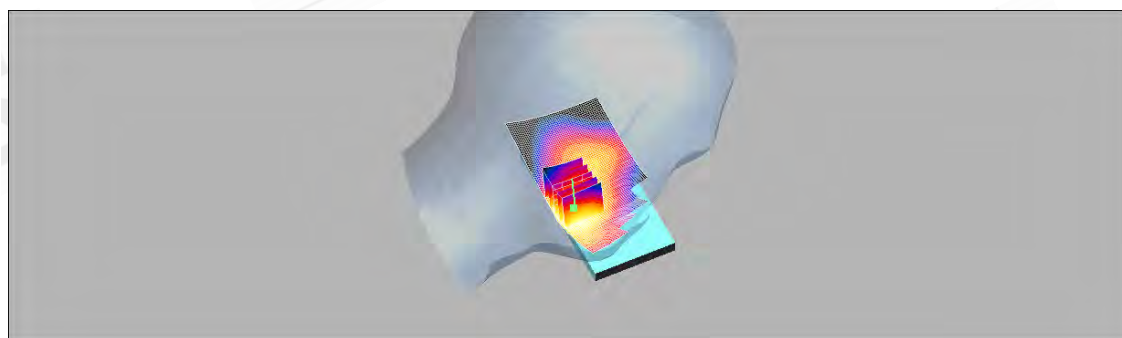
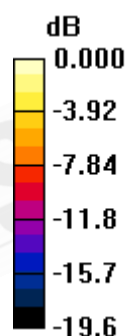
HEAD/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 4.65 V/m ; Power Drift = -0.182 dB

Peak SAR (extrapolated) = 0.735 W/kg

SAR(1 g) = 0.481 mW/g ; SAR(10 g) = 0.295 mW/g

Maximum value of SAR (measured) = 0.522 mW/g



0 dB = 0.522 mW/g

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Date: 2011/6/8

LE Cheek_CH810

Communication System: GSM1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3
Medium: Head 1800 MHz Medium parameters used: $f = 1910$ MHz; $\sigma = 1.48$ mho/m; $\epsilon_r = 39.4$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.78, 7.78, 7.78); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

HEAD/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.482 mW/g

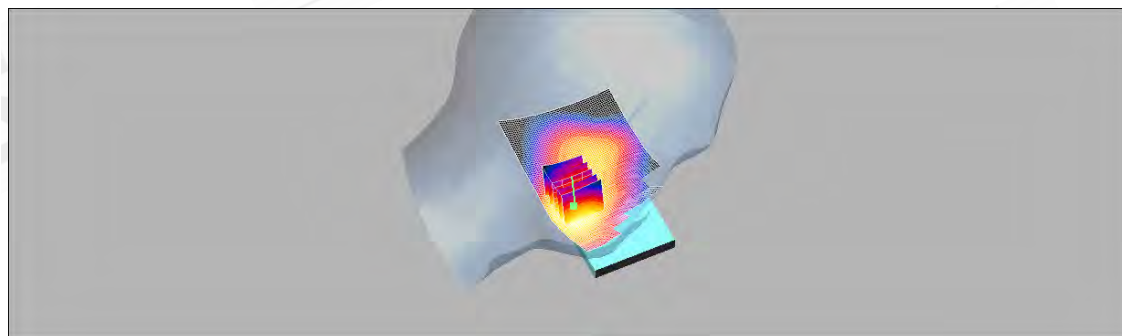
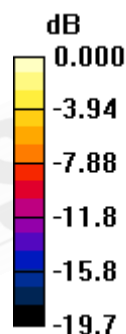
HEAD/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.55 V/m; Power Drift = -0.021 dB

Peak SAR (extrapolated) = 0.673 W/kg

SAR(1 g) = 0.425 mW/g; SAR(10 g) = 0.256 mW/g

Maximum value of SAR (measured) = 0.465 mW/g



0 dB = 0.465mW/g

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RE Tilt_CH661

Communication System: GSM1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: Head 1800 MHz Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.45 \text{ mho/m}$; $\epsilon_r = 39.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.78, 7.78, 7.78); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

HEAD/Area Scan (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.196 mW/g

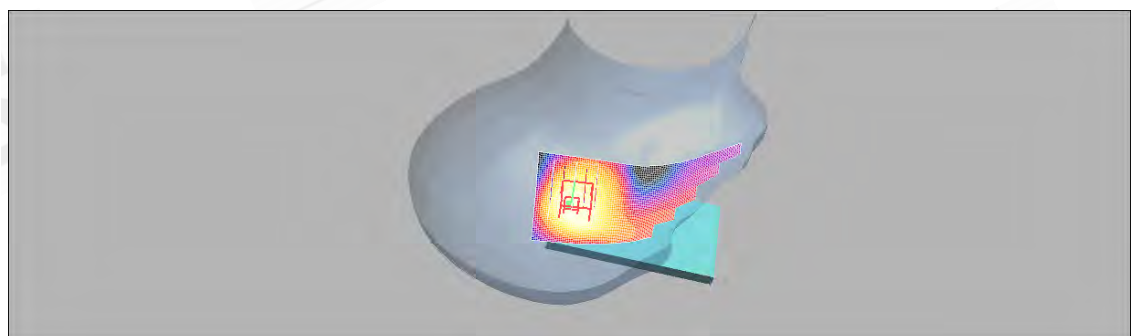
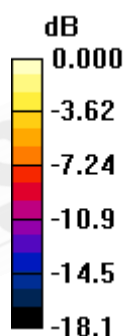
HEAD/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.28 V/m ; Power Drift = 0.111 dB

Peak SAR (extrapolated) = 0.272 W/kg

SAR(1 g) = 0.176 mW/g ; SAR(10 g) = 0.108 mW/g

Maximum value of SAR (measured) = 0.186 mW/g



0 dB = 0.186 mW/g

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Date: 2011/6/8

LE Tilt_CH661

Communication System: GSM1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3
Medium: Head 1800 MHz Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.45 \text{ mho/m}$; $\epsilon_r = 39.5$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.78, 7.78, 7.78); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

HEAD/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.173 mW/g

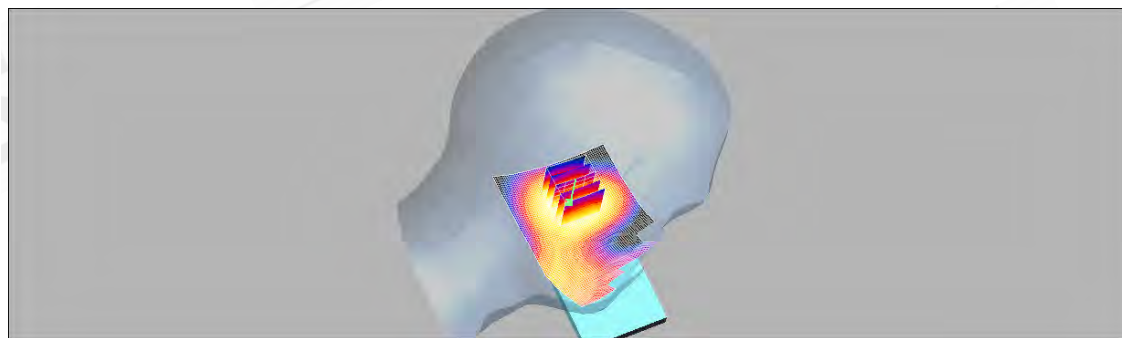
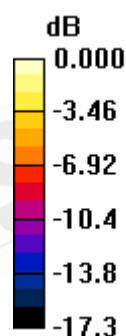
HEAD/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.05 V/m ; Power Drift = -0.182 dB

Peak SAR (extrapolated) = 0.231 W/kg

SAR(1 g) = 0.149 mW/g ; SAR(10 g) = 0.095 mW/g

Maximum value of SAR (measured) = 0.158 mW/g



0 dB = 0.158 mW/g

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Date: 2011/6/9

Hotspot mode_Front side_CH661

Communication System: GSM1900; Frequency: 1880 MHz; Duty Cycle: 1:4.1
Medium: M1800 & 1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.55 \text{ mho/m}$; $\epsilon_r = 53.1$;
 $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.51, 7.51, 7.51); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (61x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.464 mW/g

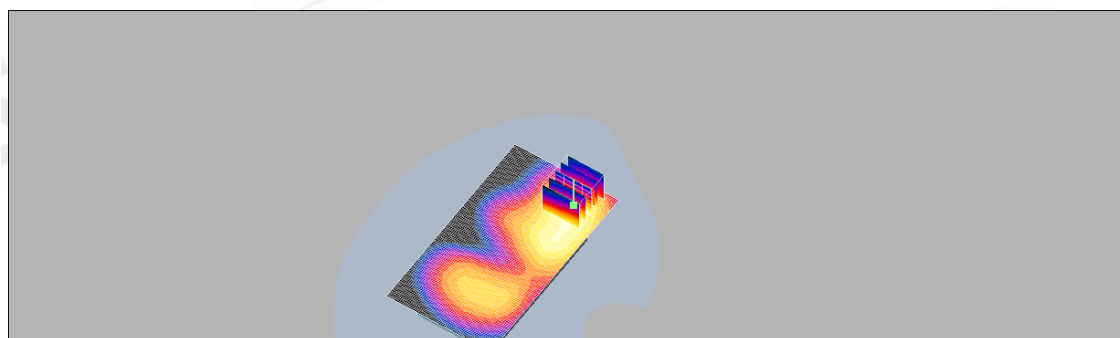
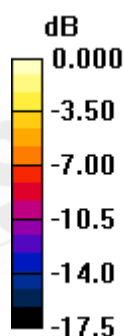
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 6.48 V/m ; Power Drift = -0.012 dB

Peak SAR (extrapolated) = 0.822 W/kg

SAR(1 g) = 0.465 mW/g ; SAR(10 g) = 0.255 mW/g

Maximum value of SAR (measured) = 0.523 mW/g



0 dB = 0.523 mW/g

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Date: 2011/6/9

Hotspot mode_Back side_CH512

Communication System: GSM1900; Frequency: 1850.2 MHz; Duty Cycle: 1:4.1
Medium: M1800 & 1900 Medium parameters used (interpolated): $f = 1850.2 \text{ MHz}$; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_r = 53.2$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.51, 7.51, 7.51); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (61x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 1.01 mW/g

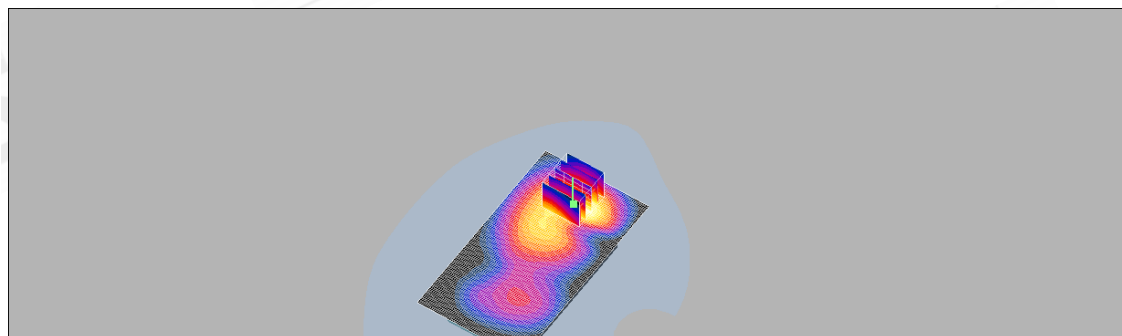
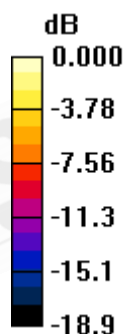
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.00 V/m ; Power Drift = -0.078 dB

Peak SAR (extrapolated) = 1.60 W/kg

SAR(1 g) = 0.910 mW/g ; SAR(10 g) = 0.477 mW/g

Maximum value of SAR (measured) = 1.02 mW/g



0 dB = 1.02 mW/g

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Date: 2011/6/9

Hotspot mode_Back side_CH661

Communication System: GSM1900; Frequency: 1880 MHz; Duty Cycle: 1:4.1
Medium: M1800 & 1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.55 \text{ mho/m}$; $\epsilon_r = 53.1$;
 $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.51, 7.51, 7.51); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (61x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.990 mW/g

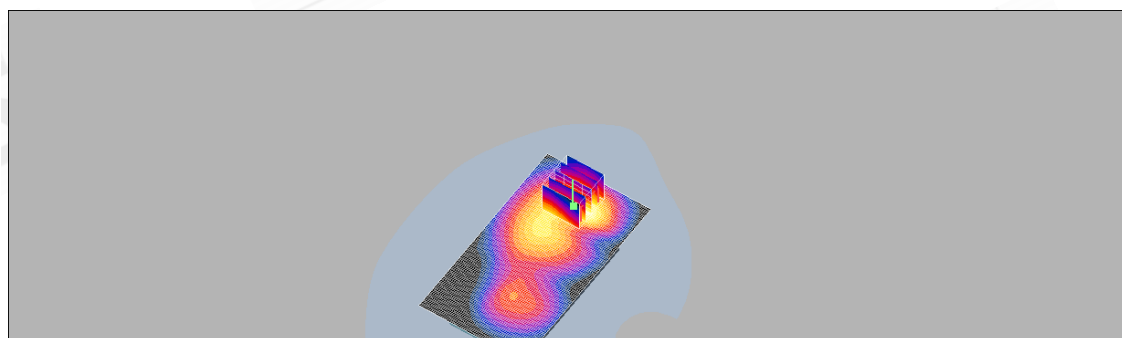
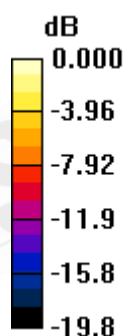
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 7.32 V/m ; Power Drift = 0.039 dB

Peak SAR (extrapolated) = 1.62 W/kg

SAR(1 g) = 0.899 mW/g ; SAR(10 g) = 0.461 mW/g

Maximum value of SAR (measured) = 1.01 mW/g



0 dB = 1.01 mW/g

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Date: 2011/6/9

Hotspot mode_Back side_CH810

Communication System: GSM1900; Frequency: 1909.8 MHz; Duty Cycle: 1:4.1
Medium: M1800 & 1900 Medium parameters used: $f = 1910$ MHz; $\sigma = 1.58$ mho/m; $\epsilon_r = 53$;
 $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.51, 7.51, 7.51); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.808 mW/g

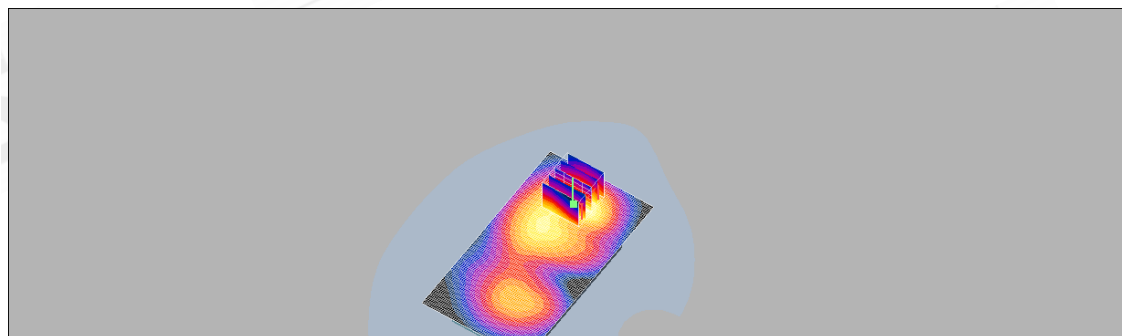
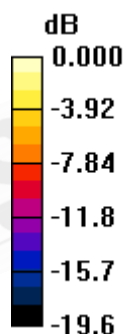
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.25 V/m; Power Drift = -0.069 dB

Peak SAR (extrapolated) = 1.37 W/kg

SAR(1 g) = 0.740 mW/g; SAR(10 g) = 0.370 mW/g

Maximum value of SAR (measured) = 0.806 mW/g



0 dB = 0.806mW/g

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Date: 2011/6/9

Hotspot mode_Bottom side_CH512

Communication System: GSM1900; Frequency: 1850.2 MHz; Duty Cycle: 1:4.1

Medium: M1800 & 1900 Medium parameters used (interpolated): $f = 1850.2 \text{ MHz}$; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_r = 53.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.51, 7.51, 7.51); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (51x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.26 mW/g

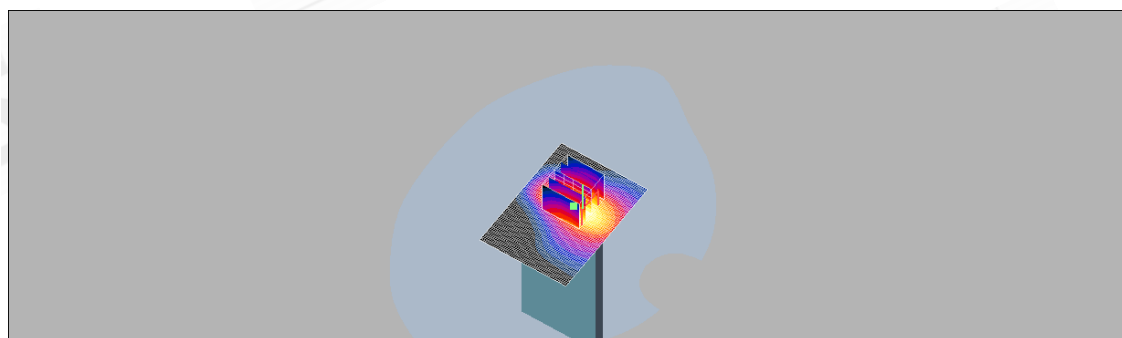
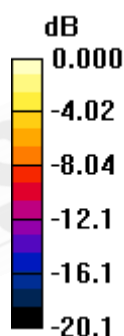
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 13.2 V/m ; Power Drift = 0.136 dB

Peak SAR (extrapolated) = 1.89 W/kg

SAR(1 g) = 1.05 mW/g ; SAR(10 g) = 0.534 mW/g

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



0 dB = 1.16 mW/g

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Date: 2011/6/9

Hotspot mode_Bottom side_CH661

Communication System: GSM1900; Frequency: 1880 MHz; Duty Cycle: 1:4.1
Medium: M1800 & 1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.55 \text{ mho/m}$; $\epsilon_r = 53.1$;
 $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.51, 7.51, 7.51); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (51x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 1.36 mW/g

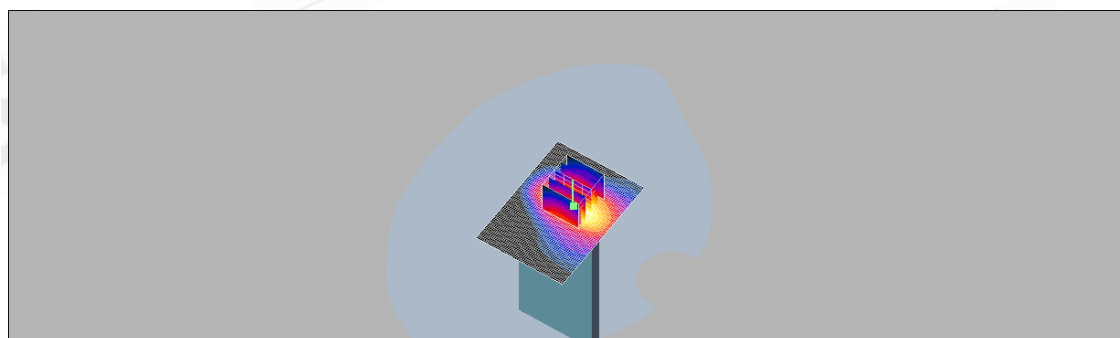
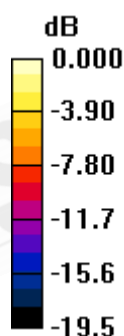
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 14.4 V/m ; Power Drift = 0.065 dB

Peak SAR (extrapolated) = 2.14 W/kg

SAR(1 g) = 1.17 mW/g ; SAR(10 g) = 0.577 mW/g

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



0 dB = 1.29 mW/g

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Date: 2011/6/9

Hotspot mode_Bottom side_CH810

Communication System: GSM1900; Frequency: 1909.8 MHz; Duty Cycle: 1:4.1
Medium: M1800 & 1900 Medium parameters used: $f = 1910 \text{ MHz}$; $\sigma = 1.58 \text{ mho/m}$; $\epsilon_r = 53$;
 $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.51, 7.51, 7.51); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (51x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 1.09 mW/g

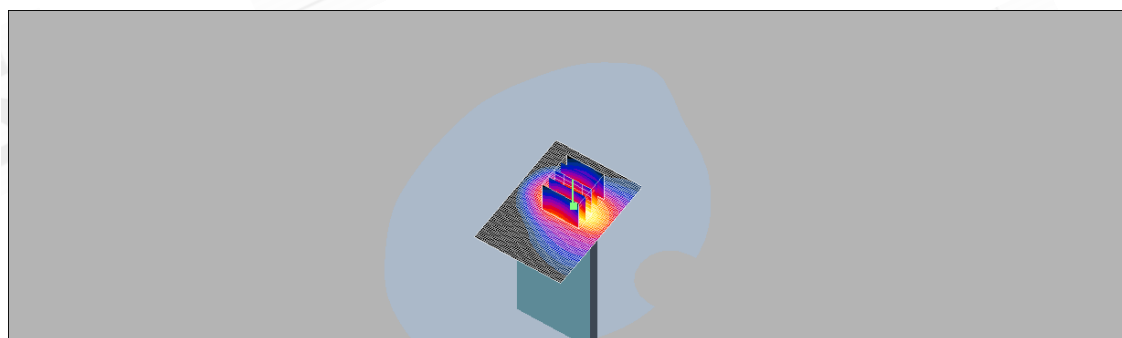
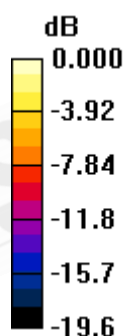
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 13.4 V/m ; Power Drift = 0.096 dB

Peak SAR (extrapolated) = 1.75 W/kg

SAR(1 g) = 0.944 mW/g ; SAR(10 g) = 0.460 mW/g

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



0 dB = 1.05 mW/g

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Date: 2011/6/9

Hotspot mode_Right side_CH661

Communication System: GSM1900; Frequency: 1880 MHz; Duty Cycle: 1:4.1
Medium: M1800 & 1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.55 \text{ mho/m}$; $\epsilon_r = 53.1$;
 $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.51, 7.51, 7.51); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (51x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.059 mW/g

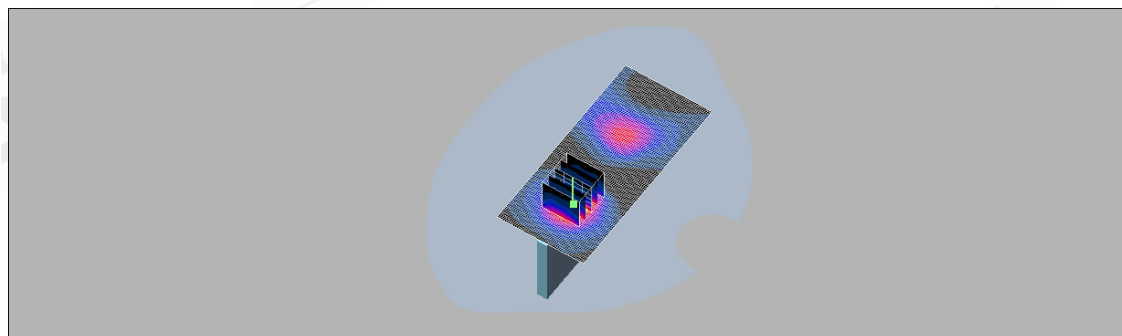
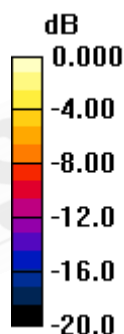
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 2.10 V/m ; Power Drift = 0.158 dB

Peak SAR (extrapolated) = 0.088 W/kg

SAR(1 g) = 0.053 mW/g ; SAR(10 g) = 0.030 mW/g

Maximum value of SAR (measured) = 0.058 mW/g



0 dB = 0.058 mW/g

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Date: 2011/6/9

Hotspot mode_Left side_CH661

Communication System: GSM1900; Frequency: 1880 MHz; Duty Cycle: 1:4.1
Medium: M1800 & 1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.55 \text{ mho/m}$; $\epsilon_r = 53.1$;
 $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.51, 7.51, 7.51); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (51x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.490 mW/g

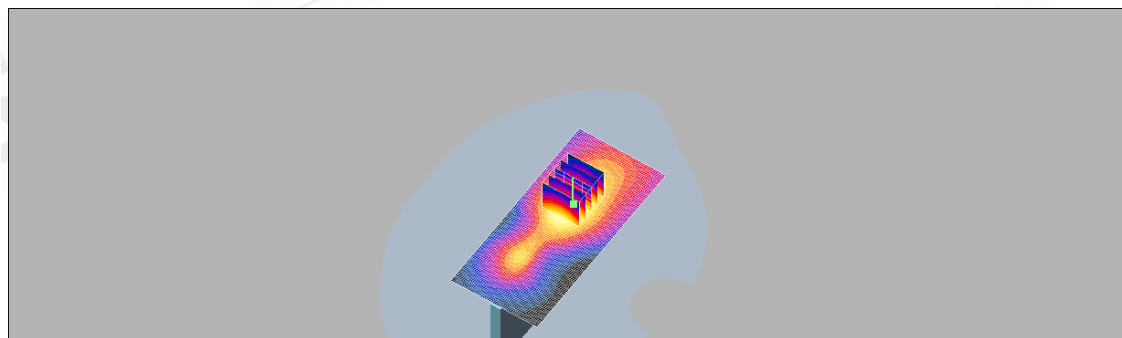
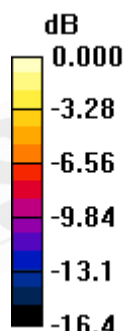
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 8.33 V/m ; Power Drift = 0.012 dB

Peak SAR (extrapolated) = 0.732 W/kg

SAR(1 g) = 0.441 mW/g ; SAR(10 g) = 0.253 mW/g

Maximum value of SAR (measured) = 0.486 mW/g



0 dB = 0.486 mW/g

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Date: 2011/6/9

Hotspot mode_Bottom side_CH512_multi class 8

Communication System: GSM1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium: M1800 & 1900 Medium parameters used (interpolated): $f = 1850.2 \text{ MHz}$; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_r = 53.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.51, 7.51, 7.51); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (51x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.906 mW/g

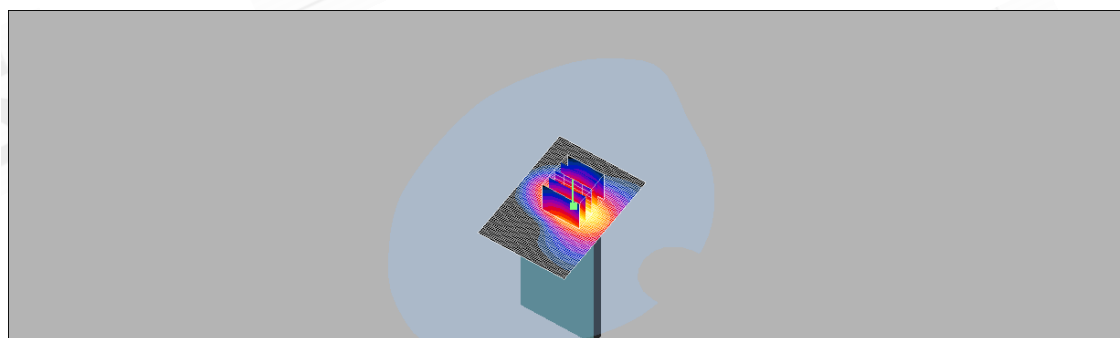
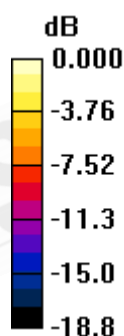
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 18.1 V/m ; Power Drift = 0.000 dB

Peak SAR (extrapolated) = 1.45 W/kg

SAR(1 g) = 0.818 mW/g ; SAR(10 g) = 0.415 mW/g

Maximum value of SAR (measured) = 0.904 mW/g



0 dB = 0.904 mW/g

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Date: 2011/6/9

Hotspot mode_Bottom side_CH661_multi class 8

Communication System: GSM1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3
Medium: M1800 & 1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.55 \text{ mho/m}$; $\epsilon_r = 53.1$;
 $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.51, 7.51, 7.51); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (51x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.978 mW/g

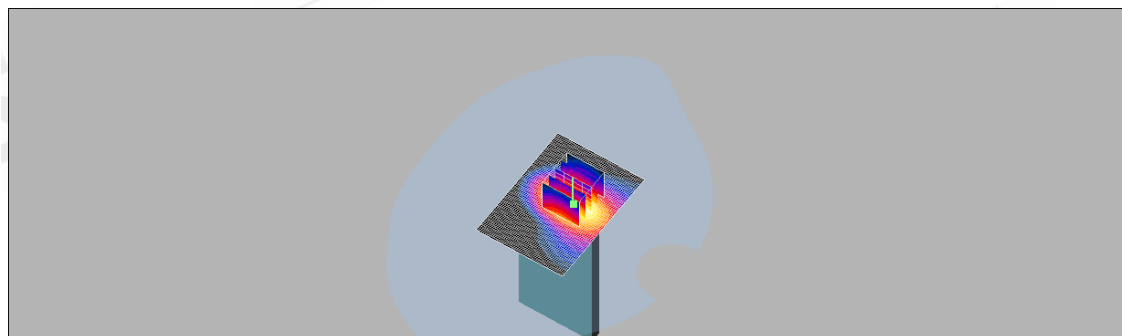
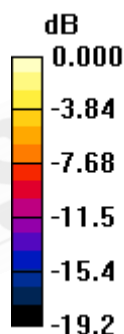
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 18.1 V/m ; Power Drift = 0.078 dB

Peak SAR (extrapolated) = 1.56 W/kg

SAR(1 g) = 0.873 mW/g ; SAR(10 g) = 0.438 mW/g

Maximum value of SAR (measured) = 0.963 mW/g



0 dB = 0.963 mW/g

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Date: 2011/6/9

Hotspot mode_Bottom side_CH810_multi class 8

Communication System: GSM1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: M1800 & 1900 Medium parameters used: $f = 1910$ MHz; $\sigma = 1.58$ mho/m; $\epsilon_r = 53$;
 $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.51, 7.51, 7.51); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (51x71x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.768 mW/g

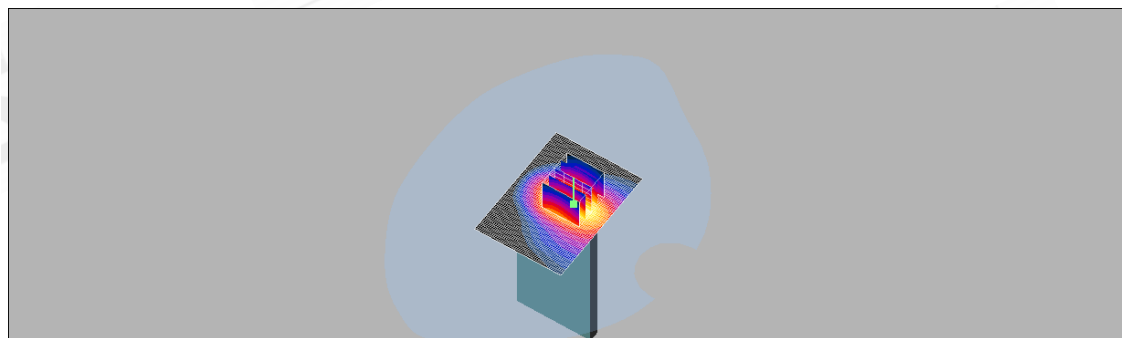
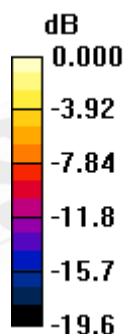
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.7 V/m; Power Drift = 0.050 dB

Peak SAR (extrapolated) = 1.28 W/kg

SAR(1 g) = 0.687 mW/g; SAR(10 g) = 0.337 mW/g

Maximum value of SAR (measured) = 0.763 mW/g



0 dB = 0.763mW/g

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Date: 2011/6/9

Hotspot mode_Bottom side_CH512_multi class 12

Communication System: GSM1900; Frequency: 1850.2 MHz; Duty Cycle: 1:2
Medium: M1800 & 1900 Medium parameters used (interpolated): $f = 1850.2 \text{ MHz}$; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_r = 53.2$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.51, 7.51, 7.51); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (51x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.916 mW/g

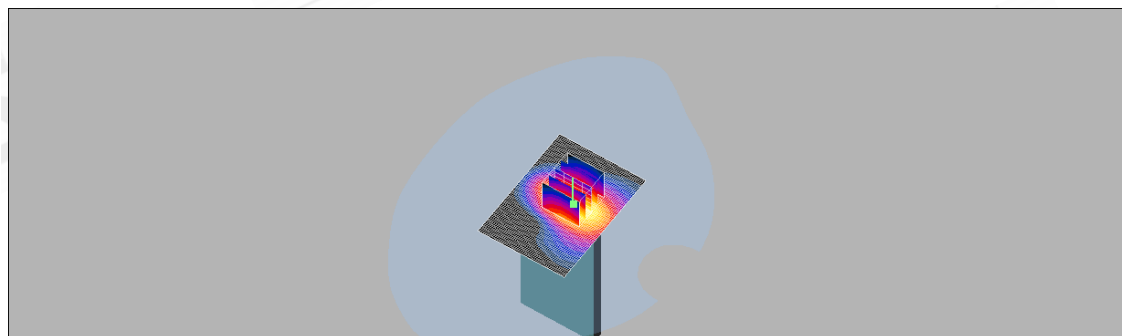
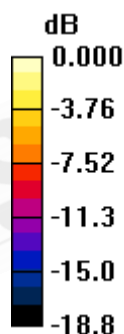
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 18.2 V/m ; Power Drift = 0.022 dB

Peak SAR (extrapolated) = 1.47 W/kg

SAR(1 g) = 0.824 mW/g ; SAR(10 g) = 0.418 mW/g

Maximum value of SAR (measured) = 0.904 mW/g



0 dB = 0.904 mW/g

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Date: 2011/6/9

Hotspot mode_Bottom side_CH661_multi class 12

Communication System: GSM1900; Frequency: 1880 MHz; Duty Cycle: 1:2

Medium: M1800 & 1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.55 \text{ mho/m}$; $\epsilon_r = 53.1$;

$\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.51, 7.51, 7.51); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (51x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.979 mW/g

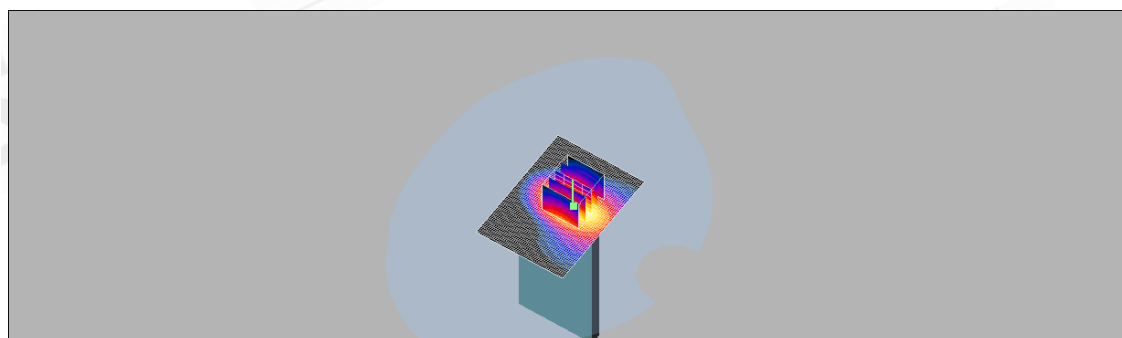
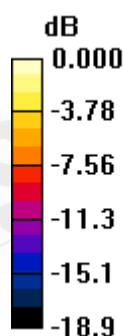
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 18.3 V/m ; Power Drift = 0.000 dB

Peak SAR (extrapolated) = 1.58 W/kg

SAR(1 g) = 0.874 mW/g ; SAR(10 g) = 0.436 mW/g

Maximum value of SAR (measured) = 0.966 mW/g



0 dB = 0.966 mW/g

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Date: 2011/6/9

Hotspot mode_Bottom side_CH810_multi class 12

Communication System: GSM1900; Frequency: 1909.8 MHz; Duty Cycle: 1:2
Medium: M1800 & 1900 Medium parameters used: $f = 1910$ MHz; $\sigma = 1.58$ mho/m; $\epsilon_r = 53$;
 $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.51, 7.51, 7.51); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (51x71x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.777 mW/g

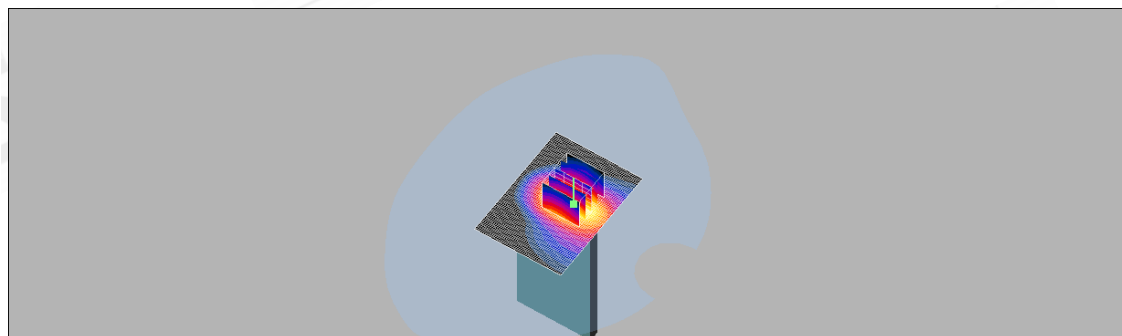
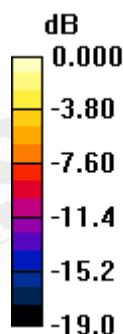
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.9 V/m; Power Drift = 0.020 dB

Peak SAR (extrapolated) = 1.29 W/kg

SAR(1 g) = 0.697 mW/g; SAR(10 g) = 0.342 mW/g

Maximum value of SAR (measured) = 0.769 mW/g



0 dB = 0.769mW/g

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Date: 2011/8/22

Body worn_Front side_CH661_multi class 10

Communication System: GSM1900; Frequency: 1880 MHz; Duty Cycle: 1:4.1

Medium: M1800 & 1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.57 \text{ mho/m}$; $\epsilon_r = 51.5$;

$\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.32, 4.32, 4.32); Calibrated: 2011/6/22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2011/6/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (61x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.254 mW/g

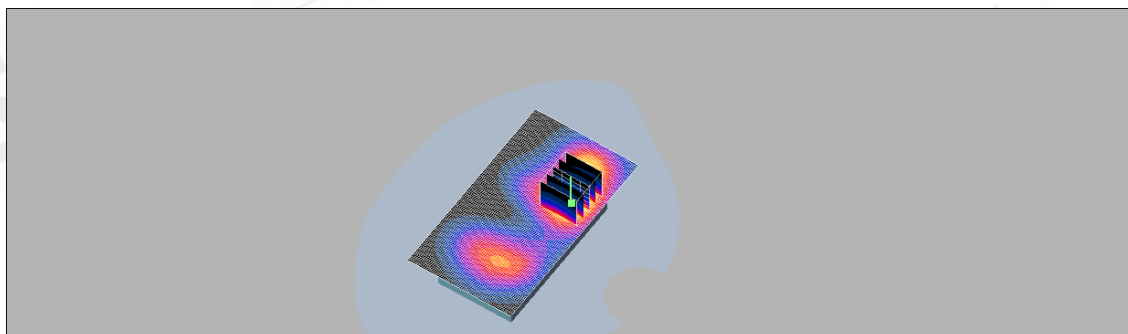
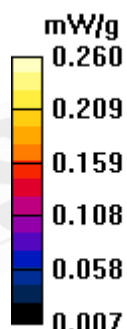
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.63 V/m ; Power Drift = -0.070 dB

Peak SAR (extrapolated) = 0.377 W/kg

SAR(1 g) = 0.239 mW/g ; SAR(10 g) = 0.145 mW/g

Maximum value of SAR (measured) = 0.260 mW/g



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Date: 2011/8/22

Body worn_Back side_CH661_multi class 10

Communication System: GSM1900; Frequency: 1880 MHz; Duty Cycle: 1:4.1
Medium: M1800 & 1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.57 \text{ mho/m}$; $\epsilon_r = 51.5$;
 $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.32, 4.32, 4.32); Calibrated: 2011/6/22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2011/6/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (61x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.504 mW/g

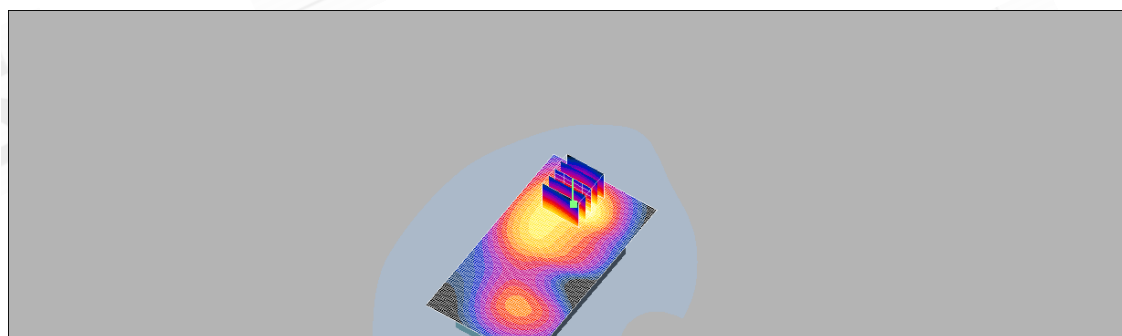
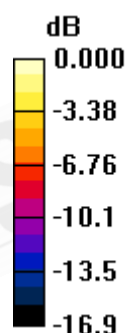
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 5.30 V/m ; Power Drift = 0.048 dB

Peak SAR (extrapolated) = 0.754 W/kg

SAR(1 g) = 0.451 mW/g ; SAR(10 g) = 0.254 mW/g

Maximum value of SAR (measured) = 0.499 mW/g



0 dB = 0.499 mW/g

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RE Cheek_CH661_(test in GPRS mode)

Communication System: GSM1900; Frequency: 1880 MHz; Duty Cycle: 1:4

Medium: Head 1900 MHz Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.7$;
 $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.78, 7.78, 7.78); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2011/6/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

HEAD/Area Scan (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.376 mW/g

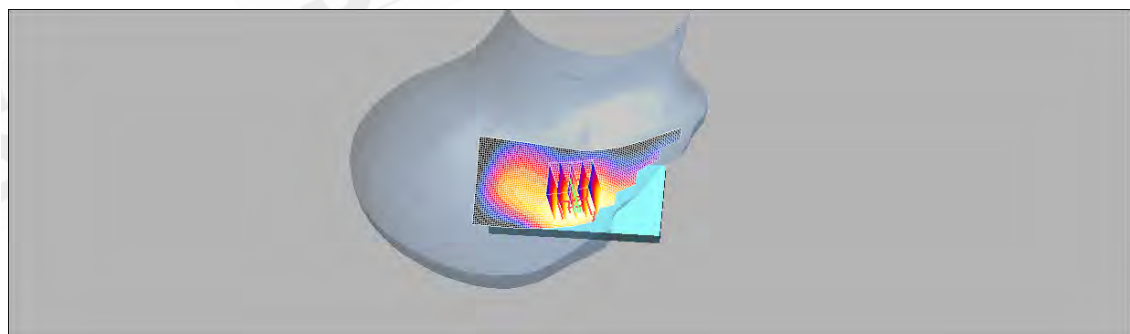
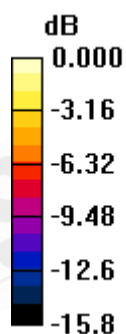
HEAD/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 7.57 V/m; Power Drift = -0.048 dB

Peak SAR (extrapolated) = 0.515 W/kg

SAR(1 g) = 0.347 mW/g; SAR(10 g) = 0.221 mW/g

Maximum value of SAR (measured) = 0.376 mW/g



0 dB = 0.376mW/g

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LE Cheek_CH661_(test in GPRS mode)

Communication System: GSM1900; Frequency: 1880 MHz; Duty Cycle: 1:4

Medium: Head 1900 MHz Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.7$;
 $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.78, 7.78, 7.78); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2011/6/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

HEAD/Area Scan (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.658 mW/g

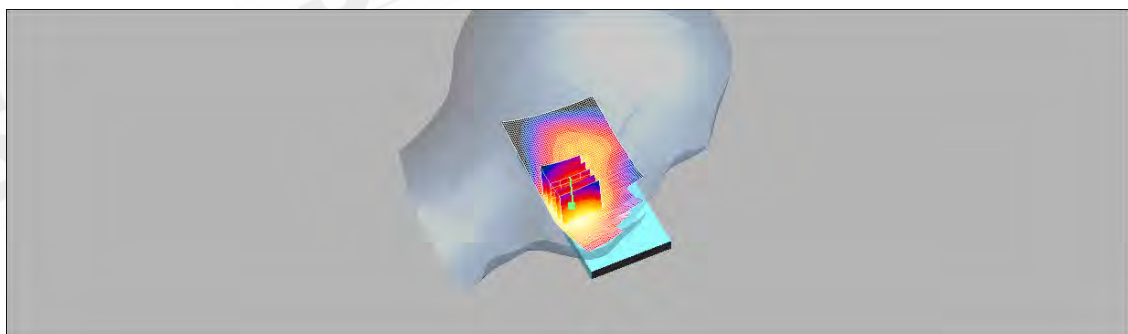
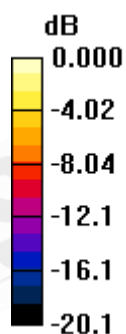
HEAD/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 7.26 V/m ; Power Drift = -0.139 dB

Peak SAR (extrapolated) = 0.909 W/kg

SAR(1 g) = 0.595 mW/g ; SAR(10 g) = 0.368 mW/g

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



0 dB = 0.648 mW/g

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Date: 2011/9/13

RE Tilt_CH661_(test in GPRS mode)

Communication System: GSM1900; Frequency: 1880 MHz; Duty Cycle: 1:4
Medium: Head 1900 MHz Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.7$;
 $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.78, 7.78, 7.78); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2011/6/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

HEAD/Area Scan (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.231 mW/g

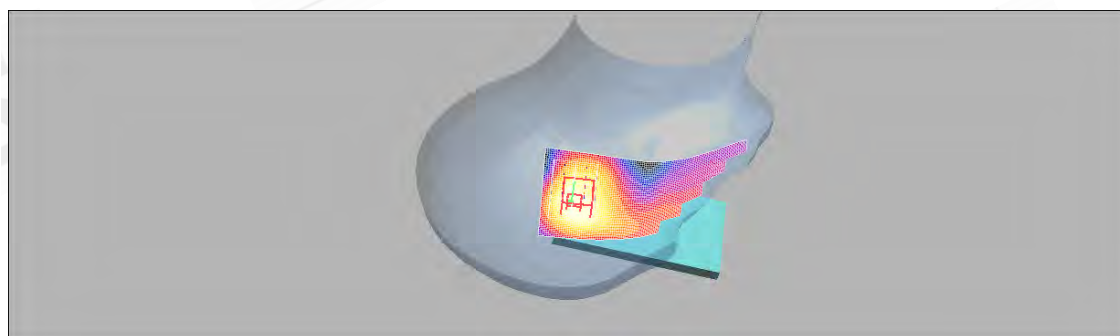
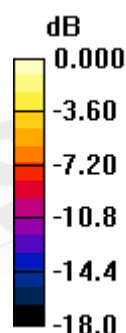
HEAD/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 10.7 V/m ; Power Drift = 0.092 dB

Peak SAR (extrapolated) = 0.296 W/kg

SAR(1 g) = 0.193 mW/g ; SAR(10 g) = 0.118 mW/g

Maximum value of SAR (measured) = 0.208 mW/g



0 dB = 0.208 mW/g

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Date: 2011/9/13

LE Tilt_CH661_(test in GPRS mode)

Communication System: GSM1900; Frequency: 1880 MHz; Duty Cycle: 1:4
Medium: Head 1900 MHz Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.7$;
 $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.78, 7.78, 7.78); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2011/6/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

HEAD/Area Scan (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.220 mW/g

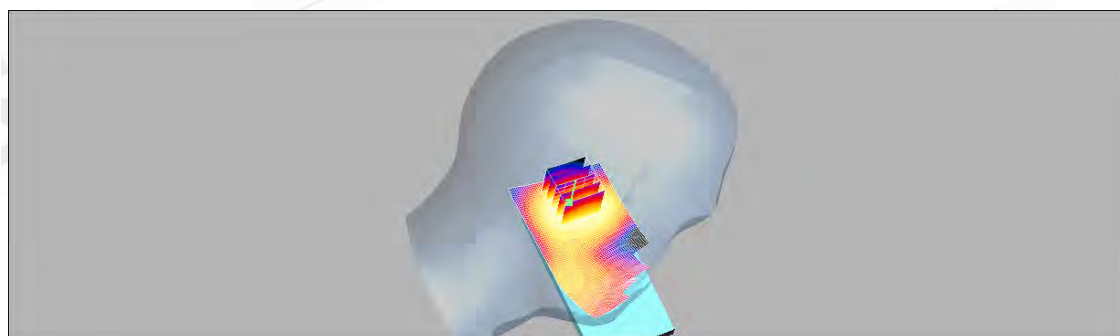
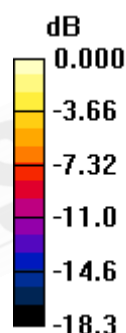
HEAD/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 10.6 V/m ; Power Drift = 0.060 dB

Peak SAR (extrapolated) = 0.301 W/kg

SAR(1 g) = 0.191 mW/g ; SAR(10 g) = 0.120 mW/g

Maximum value of SAR (measured) = 0.207 mW/g



0 dB = 0.207 mW/g

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RE Cheek_CH9400

Communication System: WCDMA BAND2; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: Head 1800 MHz Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.45 \text{ mho/m}$; $\epsilon_r = 39.5$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.78, 7.78, 7.78); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

Maximum value of SAR (interpolated) = 0.732 mW/g

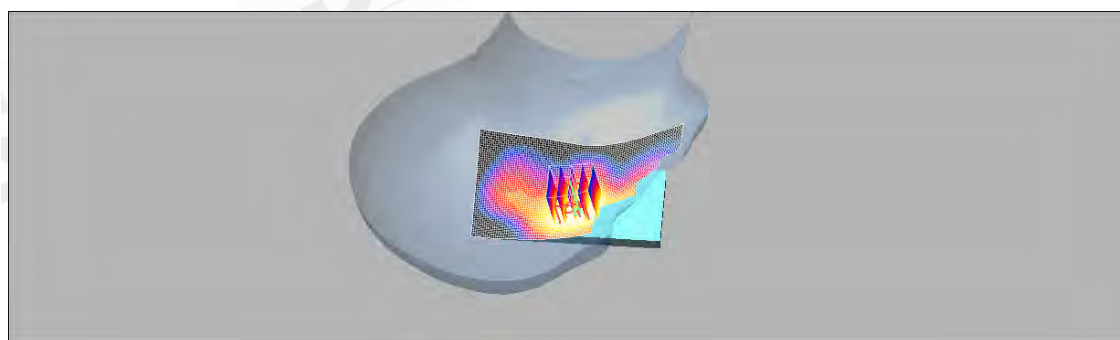
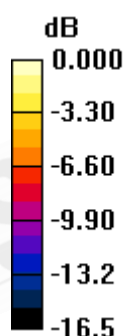
HEAD/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.94 V/m; Power Drift = -0.106 dB

Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.681 mW/g; SAR(10 g) = 0.420 mW/g

Maximum value of SAR (measured) = 0.727 mW/g



0 dB = 0.727mW/g

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Date: 2011/6/8

LE Cheek_CH9262

Communication System: WCDMA BAND2; Frequency: 1852.4 MHz; Duty Cycle: 1:1
Medium: Head 1800 MHz Medium parameters used (interpolated): $f = 1852.4 \text{ MHz}$; $\sigma = 1.42 \text{ mho/m}$; $\epsilon_r = 39.6$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.78, 7.78, 7.78); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

HEAD/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 1.13 mW/g

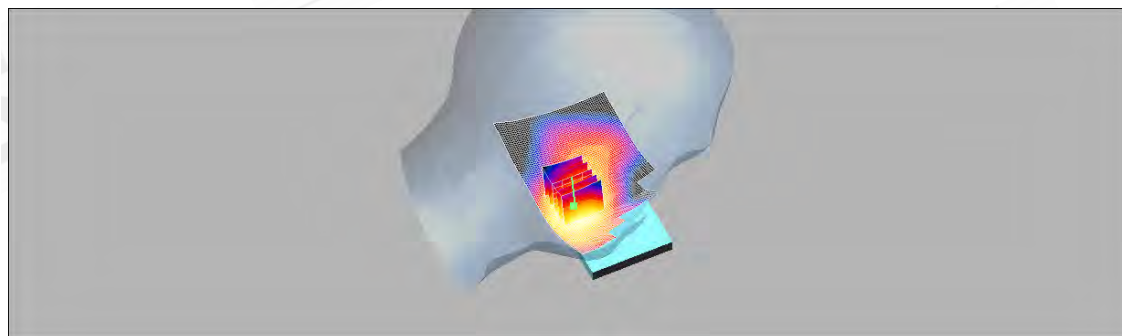
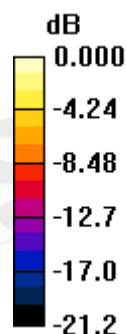
HEAD/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 6.34 V/m ; Power Drift = 0.038 dB

Peak SAR (extrapolated) = 1.55 W/kg

SAR(1 g) = 1.00 mW/g ; SAR(10 g) = 0.624 mW/g

Maximum value of SAR (measured) = 1.09 mW/g



0 dB = 1.09 mW/g

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Date: 2011/6/8

LE Cheek_CH9400

Communication System: WCDMA BAND2; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: Head 1800 MHz Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.45 \text{ mho/m}$; $\epsilon_r = 39.5$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.78, 7.78, 7.78); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

HEAD/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 1.12 mW/g

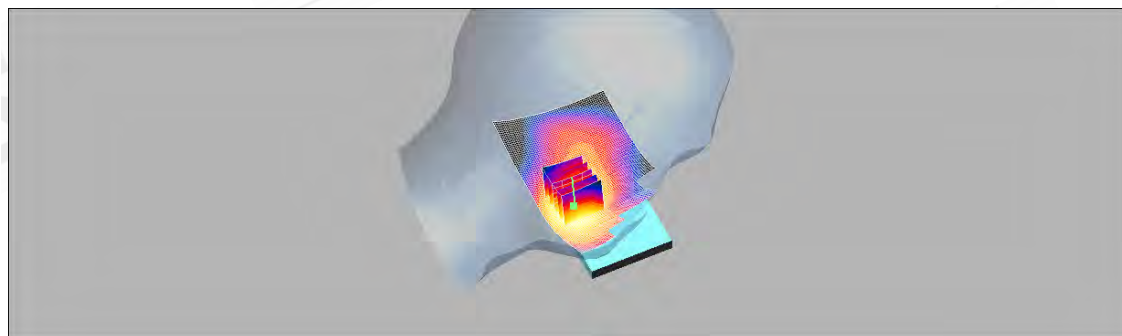
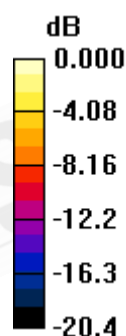
HEAD/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.39 V/m ; Power Drift = -0.078 dB

Peak SAR (extrapolated) = 1.58 W/kg

SAR(1 g) = 1.01 mW/g ; SAR(10 g) = 0.606 mW/g

Maximum value of SAR (measured) = 1.10 mW/g



0 dB = 1.10 mW/g

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LE Cheek_CH9538

Communication System: WCDMA BAND2; Frequency: 1907.6 MHz; Duty Cycle: 1:1
Medium: Head 1800 MHz Medium parameters used: $f = 1908 \text{ MHz}$; $\sigma = 1.48 \text{ mho/m}$; $\epsilon_r = 39.4$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.78, 7.78, 7.78); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

HEAD/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 1.03 mW/g

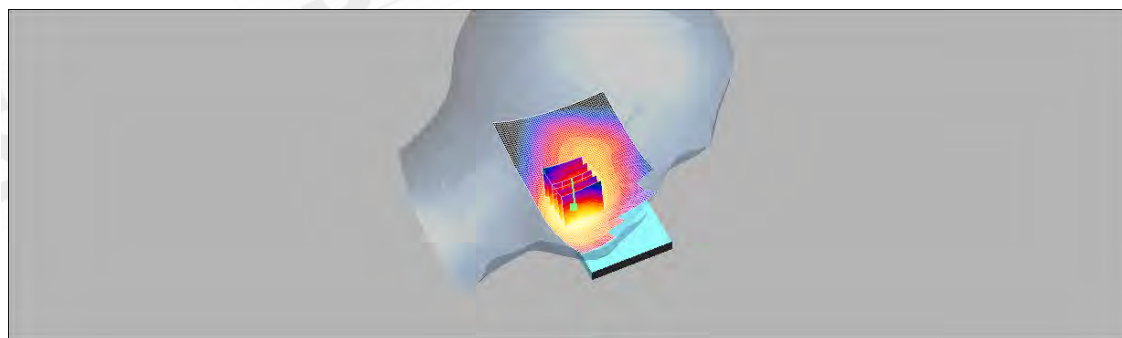
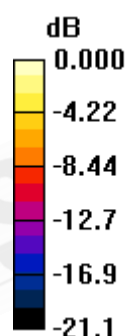
HEAD/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 7.51 V/m; Power Drift = -0.061 dB

Peak SAR (extrapolated) = 1.52 W/kg

SAR(1 g) = 0.941 mW/g; SAR(10 g) = 0.561 mW/g

Maximum value of SAR (measured) = 1.03 mW/g



0 dB = 1.03mW/g

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Date: 2011/6/8

RE Tilt_CH9400

Communication System: WCDMA BAND2; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: Head 1800 MHz Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.45 \text{ mho/m}$; $\epsilon_r = 39.5$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.78, 7.78, 7.78); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

HEAD/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.363 mW/g

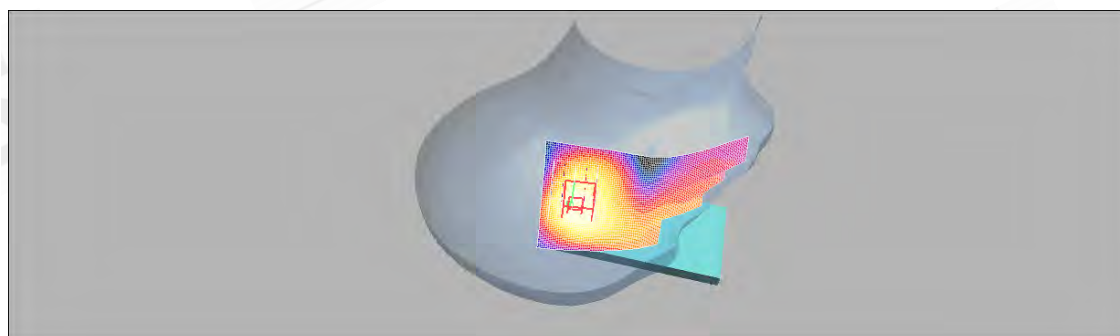
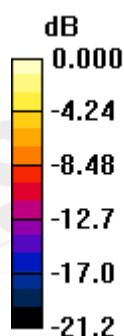
HEAD/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 13.3 V/m ; Power Drift = 0.061 dB

Peak SAR (extrapolated) = 0.516 W/kg

SAR(1 g) = 0.318 mW/g ; SAR(10 g) = 0.191 mW/g

Maximum value of SAR (measured) = 0.337 mW/g



0 dB = 0.337 mW/g

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Date: 2011/6/8

LE Tilt_CH9400

Communication System: WCDMA BAND2; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: Head 1800 MHz Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.45 \text{ mho/m}$; $\epsilon_r = 39.5$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.78, 7.78, 7.78); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

HEAD/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.338 mW/g

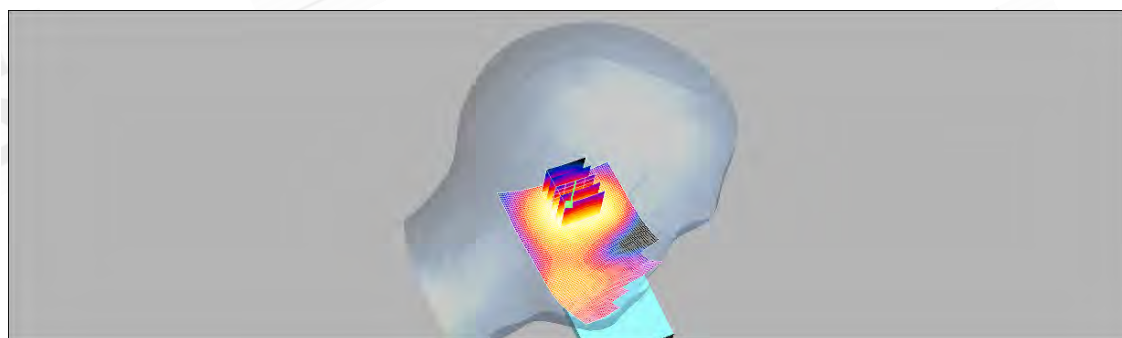
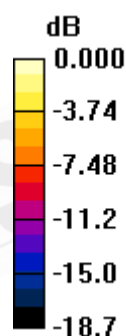
HEAD/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 13.7 V/m ; Power Drift = -0.158 dB

Peak SAR (extrapolated) = 0.449 W/kg

SAR(1 g) = 0.281 mW/g ; SAR(10 g) = 0.171 mW/g

Maximum value of SAR (measured) = 0.304 mW/g



0 dB = 0.304 mW/g

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Date: 2011/6/8

LE Cheek_CH9400_repeated with memory card

Communication System: WCDMA BAND2; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: Head 1800 MHz Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.45 \text{ mho/m}$; $\epsilon_r = 39.5$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.78, 7.78, 7.78); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

HEAD/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 1.09 mW/g

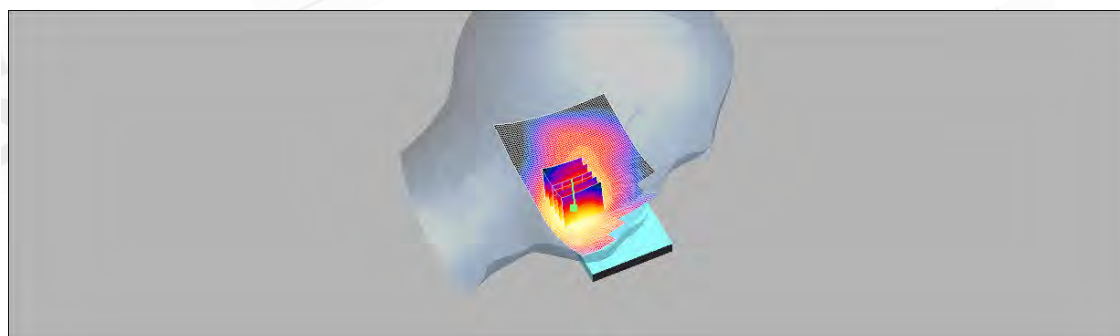
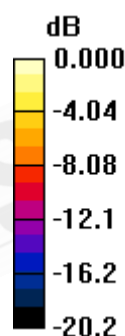
HEAD/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.67 V/m ; Power Drift = -0.125 dB

Peak SAR (extrapolated) = 1.54 W/kg

SAR(1 g) = 0.987 mW/g ; SAR(10 g) = 0.595 mW/g

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



0 dB = 1.08 mW/g

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Date: 2011/6/9

Hotspot mode_Front side_CH9262

Communication System: WCDMA BAND2; Frequency: 1852.4 MHz; Duty Cycle: 1:1
Medium: M1800 & 1900 Medium parameters used (interpolated): $f = 1852.4 \text{ MHz}$; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_r = 53.2$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.51, 7.51, 7.51); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (61x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 1.04 mW/g

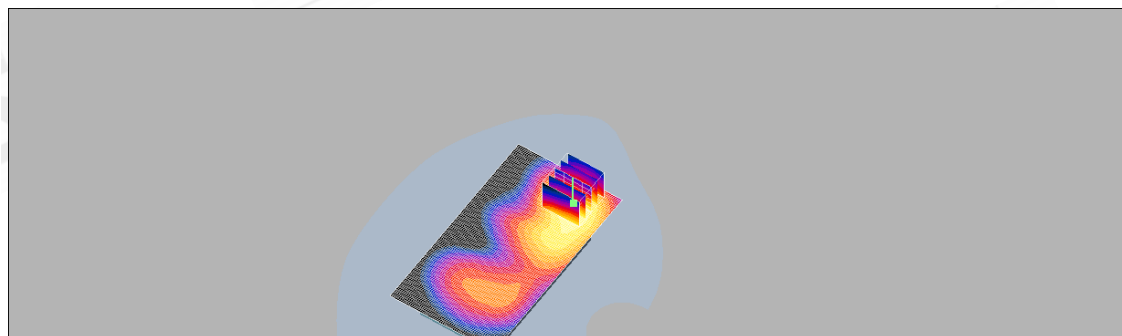
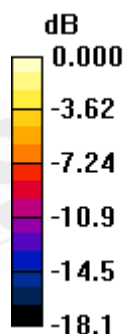
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.68 V/m; Power Drift = 0.062 dB

Peak SAR (extrapolated) = 1.84 W/kg

SAR(1 g) = 1.06 mW/g; SAR(10 g) = 0.575 mW/g

Maximum value of SAR (measured) = 1.17 mW/g



0 dB = 1.17mW/g

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Date: 2011/6/9

Hotspot mode_Front side_CH9400

Communication System: WCDMA BAND2; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: M1800 & 1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.55 \text{ mho/m}$; $\epsilon_r = 53.1$;
 $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

BODY/Area Scan (61x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.815 mW/g

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

Reference Value = 8.56 V/m; Power Drift = -0.113 dB

Peak SAR (extrapolated) = 1.49 W/kg

SAR(1 g) = 0.825 mW/g; SAR(10 g) = 0.441 mW/g

Maximum value of SAR (measured) = 0.938 mW/g

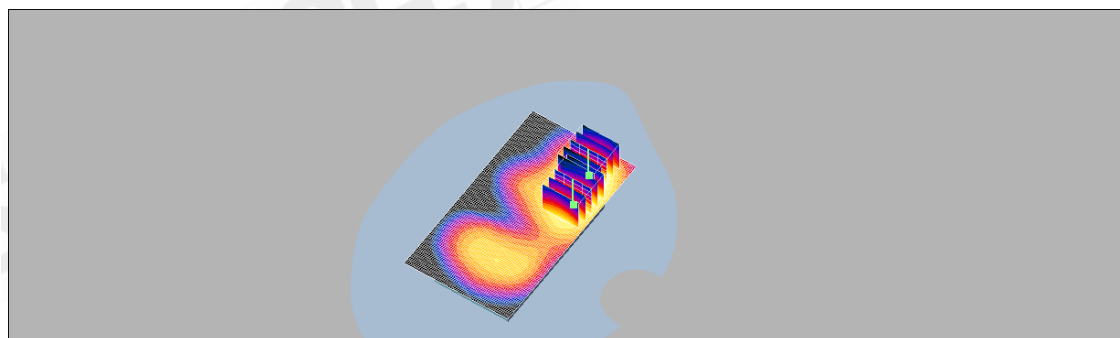
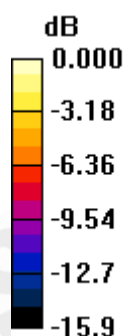
BODY/Zoom Scan (5x5x7)/Cube 1: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 8.56 V/m; Power Drift = -0.113 dB

Peak SAR (extrapolated) = 1.07 W/kg

SAR(1 g) = 0.669 mW/g; SAR(10 g) = 0.400 mW/g

Maximum value of SAR (measured) = 0.730 mW/g



0 dB = 0.730mW/g

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Date: 2011/6/9

Hotspot mode_Front side_CH9538

Communication System: WCDMA BAND2; Frequency: 1907.6 MHz; Duty Cycle: 1:1
Medium: M1800 & 1900 Medium parameters used: $f = 1908 \text{ MHz}$; $\sigma = 1.58 \text{ mho/m}$; $\epsilon_r = 53.1$;
 $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

BODY/Area Scan (61x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.607 mW/g

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

Reference Value = 7.31 V/m; Power Drift = 0.008 dB

Peak SAR (extrapolated) = 1.07 W/kg

SAR(1 g) = 0.583 mW/g; SAR(10 g) = 0.316 mW/g

Maximum value of SAR (measured) = 0.651 mW/g

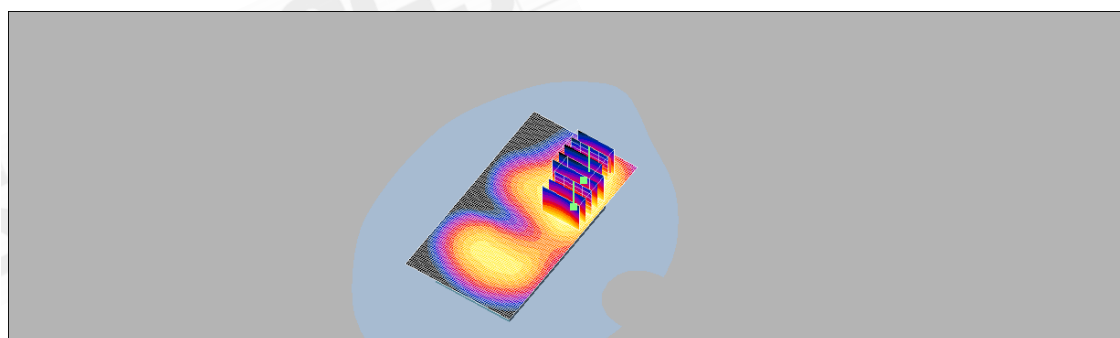
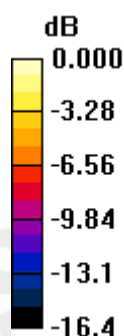
BODY/Zoom Scan (5x5x7)/Cube 1: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 7.31 V/m; Power Drift = 0.008 dB

Peak SAR (extrapolated) = 0.934 W/kg

SAR(1 g) = 0.579 mW/g; SAR(10 g) = 0.346 mW/g

Maximum value of SAR (measured) = 0.624 mW/g



0 dB = 0.624mW/g

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Date: 2011/6/9

Hotspot mode_Back side_CH9262

Communication System: WCDMA BAND2; Frequency: 1852.4 MHz; Duty Cycle: 1:1
Medium: M1800 & 1900 Medium parameters used (interpolated): $f = 1852.4 \text{ MHz}$; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_r = 53.2$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.51, 7.51, 7.51); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (61x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 1.28 mW/g

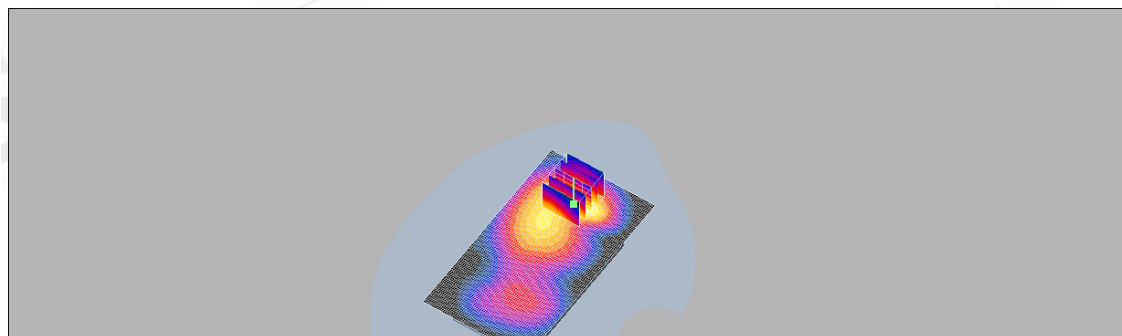
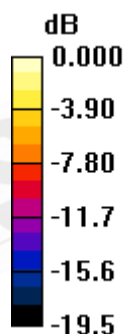
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 7.44 V/m ; Power Drift = 0.041 dB

Peak SAR (extrapolated) = 1.90 W/kg

SAR(1 g) = 1.08 mW/g ; SAR(10 g) = 0.567 mW/g

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



0 dB = 1.24 mW/g

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Date: 2011/6/9

Hotspot mode_Back side_CH9400

Communication System: WCDMA BAND2; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: M1800 & 1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.55 \text{ mho/m}$; $\epsilon_r = 53.1$;
 $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.51, 7.51, 7.51); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (61x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 1.16 mW/g

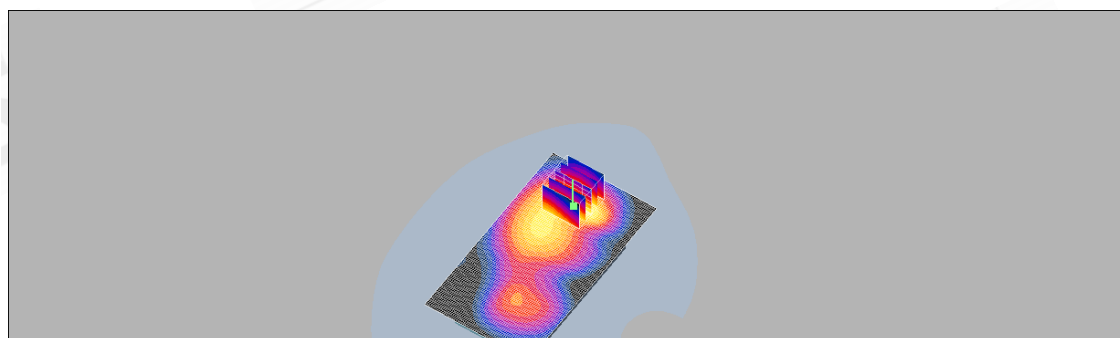
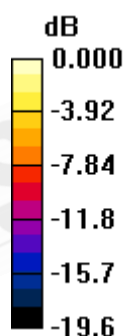
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 7.39 V/m ; Power Drift = 0.008 dB

Peak SAR (extrapolated) = 1.78 W/kg

SAR(1 g) = 0.992 mW/g ; SAR(10 g) = 0.513 mW/g

Maximum value of SAR (measured) = 1.14 mW/g



0 dB = 1.14 mW/g

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Hotspot mode_Back side_CH9538

Communication System: WCDMA BAND2; Frequency: 1907.6 MHz; Duty Cycle: 1:1
Medium: M1800 & 1900 Medium parameters used: $f = 1908 \text{ MHz}$; $\sigma = 1.58 \text{ mho/m}$; $\epsilon_r = 53.1$;
 $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.51, 7.51, 7.51); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (61x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.879 mW/g

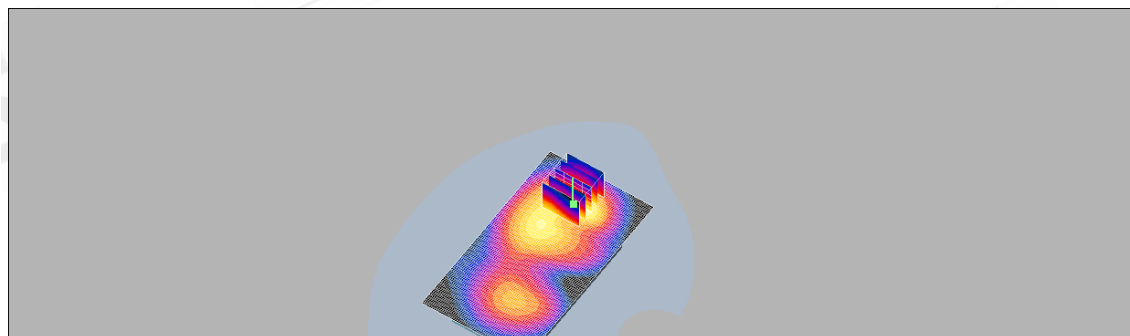
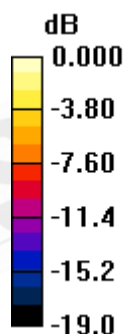
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 5.97 V/m ; Power Drift = 0.040 dB

Peak SAR (extrapolated) = 1.41 W/kg

SAR(1 g) = 0.762 mW/g ; SAR(10 g) = 0.385 mW/g

Maximum value of SAR (measured) = 0.876 mW/g



0 dB = 0.876 mW/g

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Date: 2011/6/9

Hotspot mode_Bottom side_CH9262

Communication System: WCDMA BAND2; Frequency: 1852.4 MHz; Duty Cycle: 1:1
Medium: M1800 & 1900 Medium parameters used (interpolated): $f = 1852.4 \text{ MHz}$; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_r = 53.2$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.51, 7.51, 7.51); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (51x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 1.47 mW/g

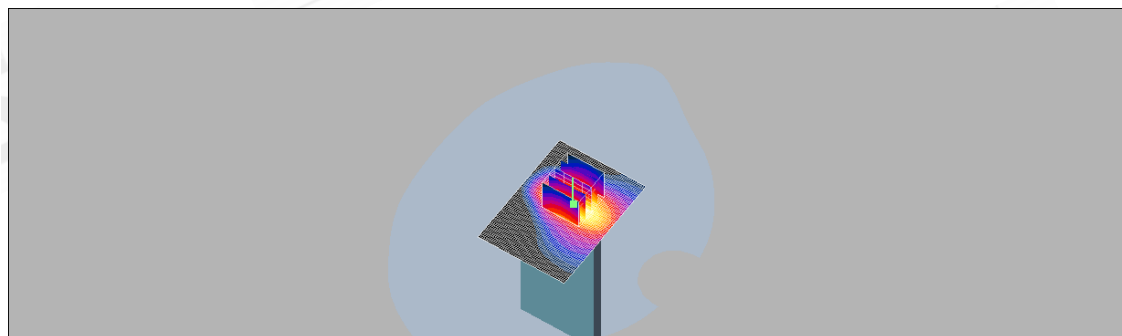
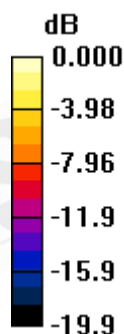
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 15.6 V/m ; Power Drift = 0.108 dB

Peak SAR (extrapolated) = 2.30 W/kg

SAR(1 g) = 1.25 mW/g ; SAR(10 g) = 0.616 mW/g

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



0 dB = 1.36 mW/g

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Date: 2011/6/9

Hotspot mode_Bottom side_CH9400

Communication System: WCDMA BAND2; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: M1800 & 1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.55 \text{ mho/m}$; $\epsilon_r = 53.1$;
 $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.51, 7.51, 7.51); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (51x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 1.52 mW/g

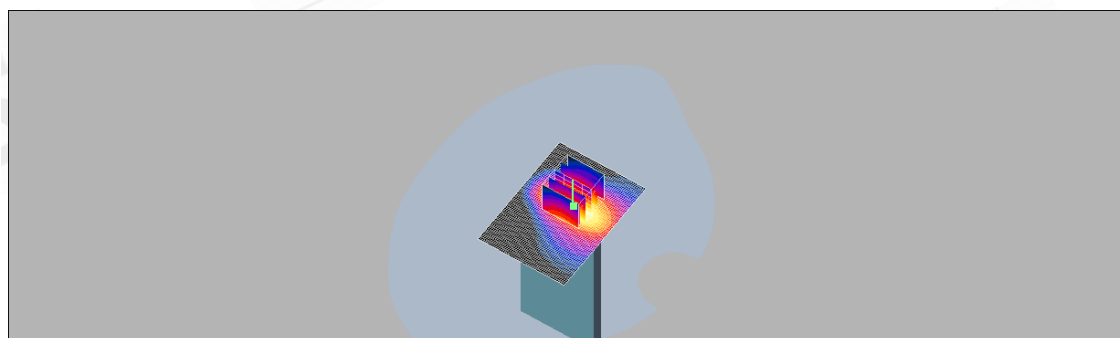
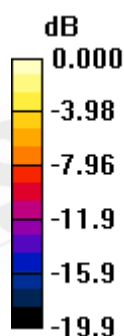
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 15.7 V/m ; Power Drift = 0.108 dB

Peak SAR (extrapolated) = 2.37 W/kg

SAR(1 g) = 1.29 mW/g ; SAR(10 g) = 0.635 mW/g

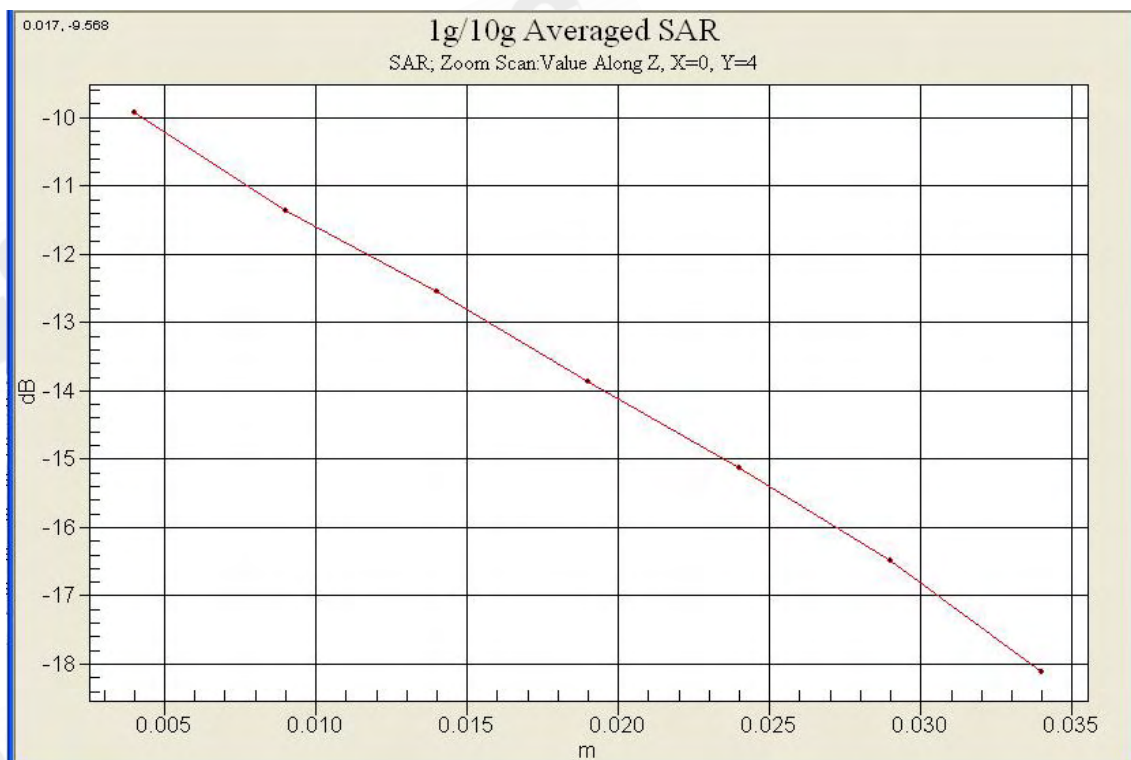
Maximum value of SAR (measured) = 1.40 mW/g



0 dB = 1.40 mW/g

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Hotspot mode_Bottom side_CH9538

Communication System: WCDMA BAND2; Frequency: 1907.6 MHz; Duty Cycle: 1:1
Medium: M1800 & 1900 Medium parameters used: $f = 1908 \text{ MHz}$; $\sigma = 1.58 \text{ mho/m}$; $\epsilon_r = 53.1$;
 $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.51, 7.51, 7.51); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (51x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.21 mW/g

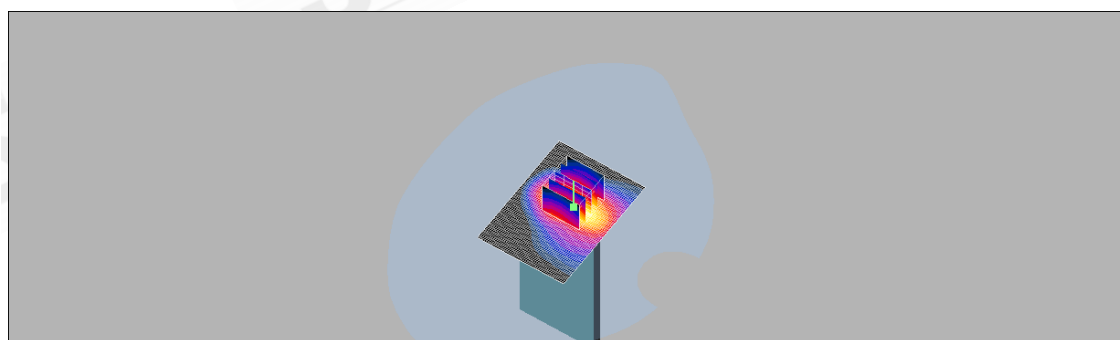
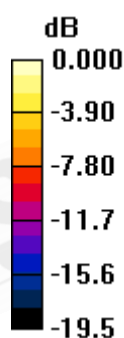
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 14.8 V/m; Power Drift = 0.082 dB

Peak SAR (extrapolated) = 1.95 W/kg

SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.503 mW/g

Maximum value of SAR (measured) = 1.18 mW/g



0 dB = 1.18mW/g

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Date: 2011/6/9

Hotspot mode_Right side_CH9400

Communication System: WCDMA BAND2; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: M1800 & 1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.55 \text{ mho/m}$; $\epsilon_r = 53.1$;
 $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.51, 7.51, 7.51); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (51x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.085 mW/g

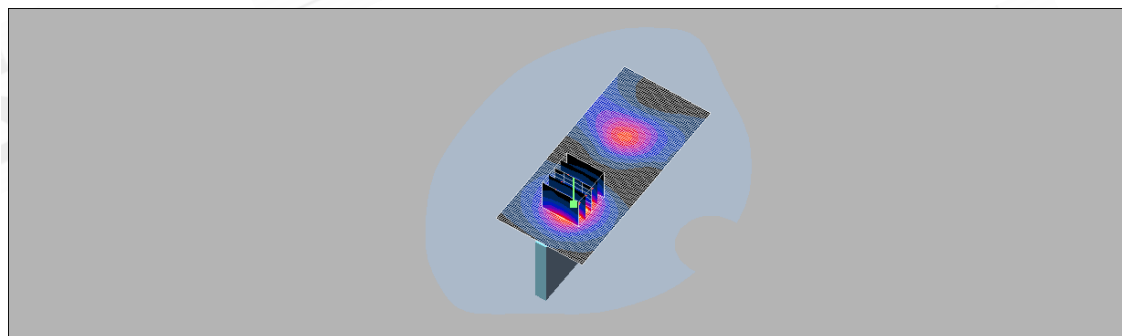
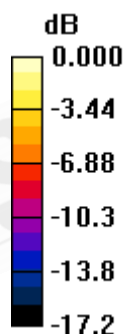
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 2.88 V/m ; Power Drift = 0.191 dB

Peak SAR (extrapolated) = 0.125 W/kg

SAR(1 g) = 0.076 mW/g ; SAR(10 g) = 0.044 mW/g

Maximum value of SAR (measured) = 0.085 mW/g



0 dB = 0.085 mW/g

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Date: 2011/6/9

Hotspot mode_Left side_CH9400

Communication System: WCDMA BAND2; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: M1800 & 1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.55 \text{ mho/m}$; $\epsilon_r = 53.1$;
 $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.51, 7.51, 7.51); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (51x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.847 mW/g

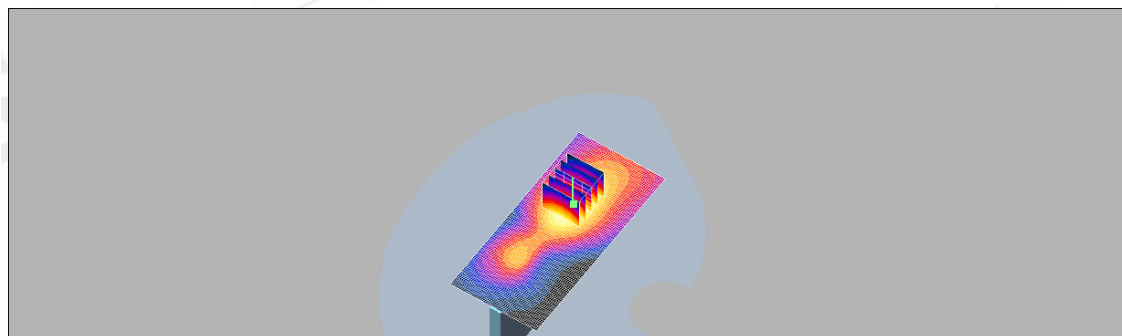
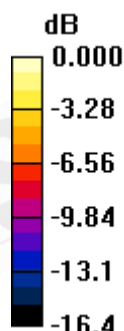
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 9.41 V/m ; Power Drift = 0.057 dB

Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.752 mW/g ; SAR(10 g) = 0.432 mW/g

Maximum value of SAR (measured) = 0.826 mW/g



0 dB = 0.826 mW/g

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Date: 2011/6/9

Hotspot mode_Bottom side_CH9400_repeated with headset

Communication System: WCDMA BAND2; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: M1800 & 1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.55 \text{ mho/m}$; $\epsilon_r = 53.1$;
 $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.51, 7.51, 7.51); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (51x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 1.30 mW/g

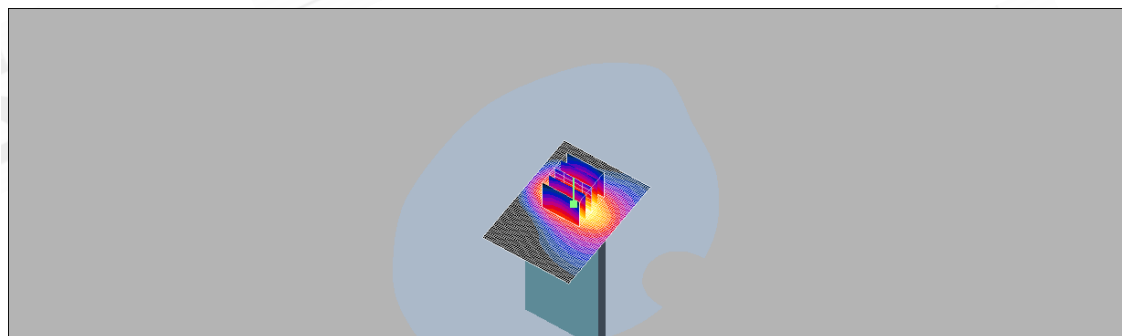
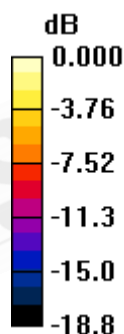
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 17.5 V/m ; Power Drift = -0.196 dB

Peak SAR (extrapolated) = 1.91 W/kg

SAR(1 g) = 1.08 mW/g ; SAR(10 g) = 0.558 mW/g

Maximum value of SAR (measured) = 1.22 mW/g



0 dB = 1.22 mW/g

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Date: 2011/6/9

Hotspot mode_Bottom side_CH9400_repeated with memory card

Communication System: WCDMA BAND2; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: M1800 & 1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.55 \text{ mho/m}$; $\epsilon_r = 53.1$;
 $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.51, 7.51, 7.51); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (51x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 1.42 mW/g

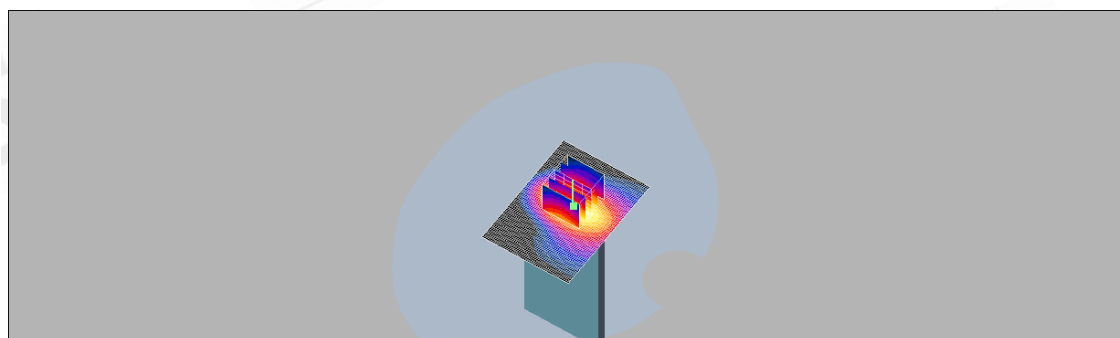
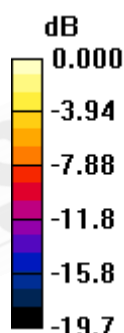
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 21.5 V/m ; Power Drift = -0.053 dB

Peak SAR (extrapolated) = 2.22 W/kg

SAR(1 g) = 1.23 mW/g ; SAR(10 g) = 0.616 mW/g

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



0 dB = 1.33 mW/g

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Date: 2011/8/22

Body worn_Front side_CH9400

Communication System: WCDMA BAND2; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: M1800 & 1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.57 \text{ mho/m}$; $\epsilon_r = 51.5$;
 $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.32, 4.32, 4.32); Calibrated: 2011/6/22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2011/6/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (61x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.410 mW/g

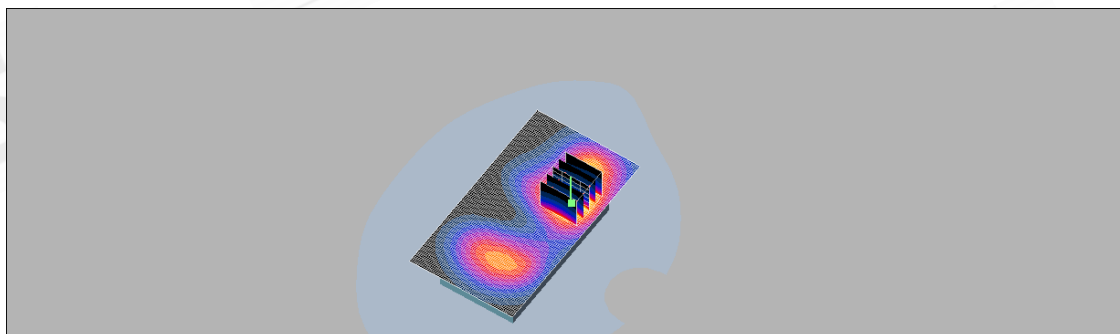
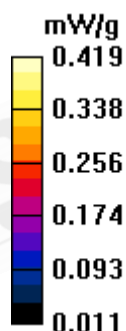
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 7.07 V/m ; Power Drift = -0.064 dB

Peak SAR (extrapolated) = 0.616 W/kg

SAR(1 g) = 0.386 mW/g ; SAR(10 g) = 0.234 mW/g

Maximum value of SAR (measured) = 0.419 mW/g



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Date: 2011/8/22

Body worn_Back side_CH9262

Communication System: WCDMA BAND2; Frequency: 1852.4 MHz; Duty Cycle: 1:1
Medium: M1800 & 1900 Medium parameters used (interpolated): $f = 1852.4 \text{ MHz}$; $\sigma = 1.53 \text{ mho/m}$; $\epsilon_r = 51.6$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.32, 4.32, 4.32); Calibrated: 2011/6/22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2011/6/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (61x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 1.28 mW/g

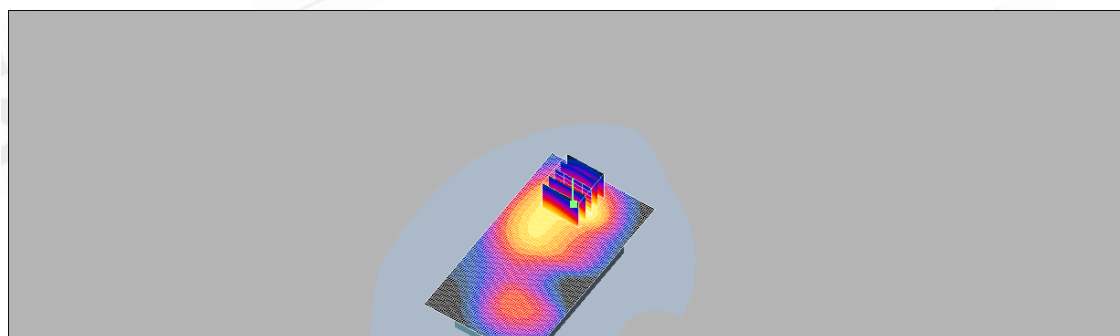
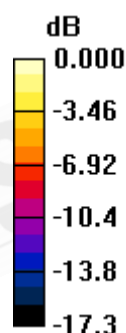
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.72 V/m ; Power Drift = 0.106 dB

Peak SAR (extrapolated) = 1.98 W/kg

SAR(1 g) = 1.15 mW/g ; SAR(10 g) = 0.626 mW/g

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



0 dB = 1.27 mW/g

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Date: 2011/8/22

Body worn_Back side_CH9400

Communication System: WCDMA BAND2; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: M1800 & 1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.57 \text{ mho/m}$; $\epsilon_r = 51.5$;
 $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.32, 4.32, 4.32); Calibrated: 2011/6/22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2011/6/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (61x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 1.27 mW/g

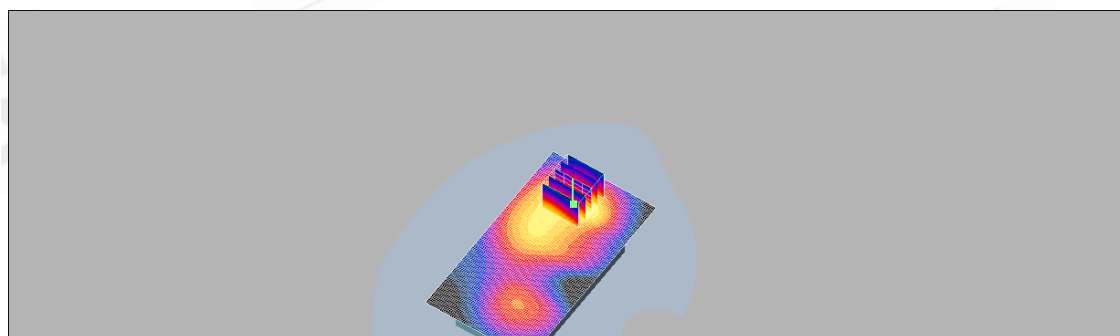
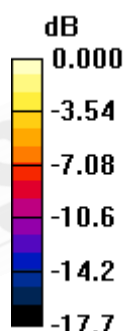
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 7.90 V/m ; Power Drift = -0.199 dB

Peak SAR (extrapolated) = 1.93 W/kg

SAR(1 g) = 1.12 mW/g ; SAR(10 g) = 0.613 mW/g

Maximum value of SAR (measured) = 1.26 mW/g



0 dB = 1.26 mW/g

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Date: 2011/8/22

Body worn_Back side_CH9538

Communication System: WCDMA BAND2; Frequency: 1907.6 MHz; Duty Cycle: 1:1
Medium: M1800 & 1900 Medium parameters used: $f = 1908 \text{ MHz}$; $\sigma = 1.62 \text{ mho/m}$; $\epsilon_r = 51.4$;
 $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

BODY/Area Scan (61x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.952 mW/g

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

Reference Value = 6.68 V/m; Power Drift = 0.142 dB

Peak SAR (extrapolated) = 1.47 W/kg

SAR(1 g) = 0.845 mW/g; SAR(10 g) = 0.458 mW/g

Maximum value of SAR (measured) = 0.948 mW/g

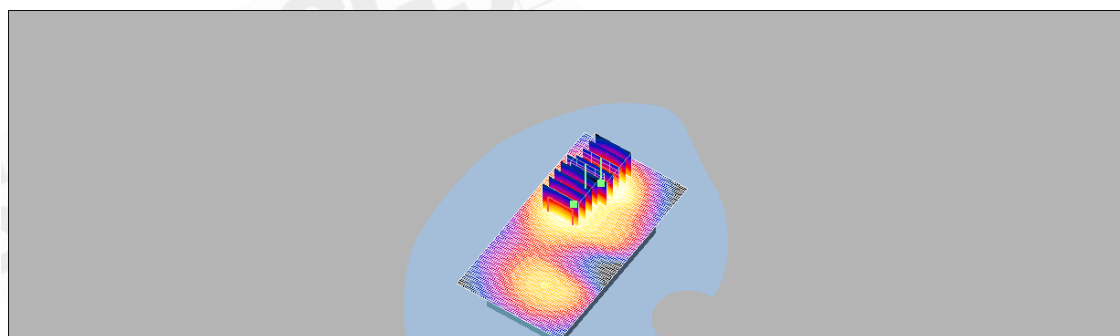
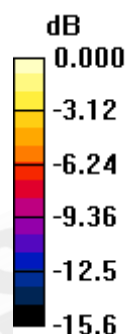
BODY/Zoom Scan (5x5x7)/Cube 1: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 6.68 V/m; Power Drift = 0.142 dB

Peak SAR (extrapolated) = 0.945 W/kg

SAR(1 g) = 0.579 mW/g; SAR(10 g) = 0.344 mW/g

Maximum value of SAR (measured) = 0.625 mW/g



0 dB = 0.625mW/g

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RE Cheek_CH4183

Communication System: WCDMA BAND5; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: Head 835MHz Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.918 \text{ mho/m}$; $\epsilon_r = 41.4$;
 $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.25, 9.25, 9.25); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

HEAD/Area Scan (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.377 mW/g

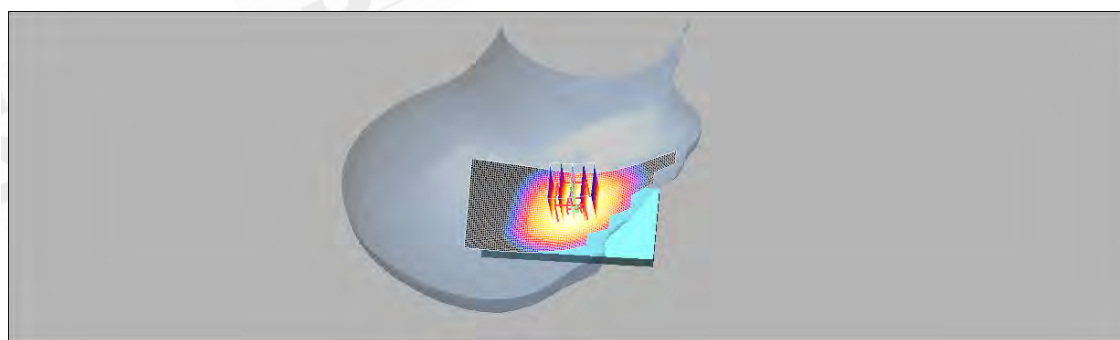
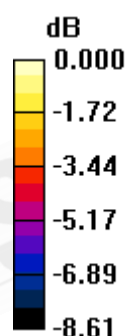
HEAD/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 4.70 V/m ; Power Drift = 0.044 dB

Peak SAR (extrapolated) = 0.441 W/kg

SAR(1 g) = 0.362 mW/g ; SAR(10 g) = 0.279 mW/g

Maximum value of SAR (measured) = 0.382 mW/g



0 dB = 0.382 mW/g

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Date: 2011/6/6

LE Cheek_CH4132

Communication System: WCDMA BAND5; Frequency: 826.4 MHz; Duty Cycle: 1:1
Medium: Head 835MHz Medium parameters used (interpolated): $f = 826.4 \text{ MHz}$; $\sigma = 0.907 \text{ mho/m}$; $\epsilon_r = 41.5$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.25, 9.25, 9.25); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

HEAD/Area Scan (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.338 mW/g

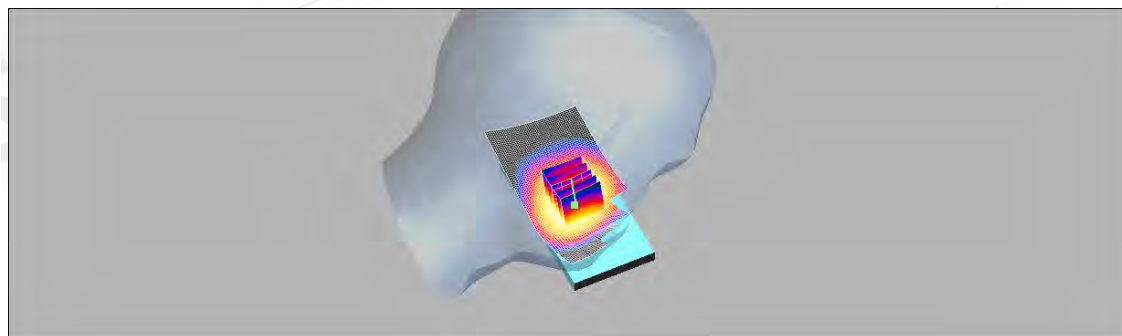
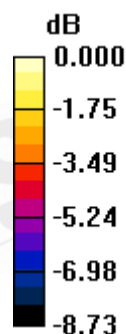
HEAD/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 6.07 V/m ; Power Drift = -0.115 dB

Peak SAR (extrapolated) = 0.397 W/kg

SAR(1 g) = 0.323 mW/g ; SAR(10 g) = 0.250 mW/g

Maximum value of SAR (measured) = 0.338 mW/g



0 dB = 0.338 mW/g

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Date: 2011/6/6

LE Cheek_CH4183

Communication System: WCDMA BAND5; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: Head 835MHz Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.918 \text{ mho/m}$; $\epsilon_r = 41.4$;
 $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.25, 9.25, 9.25); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

HEAD/Area Scan (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.393 mW/g

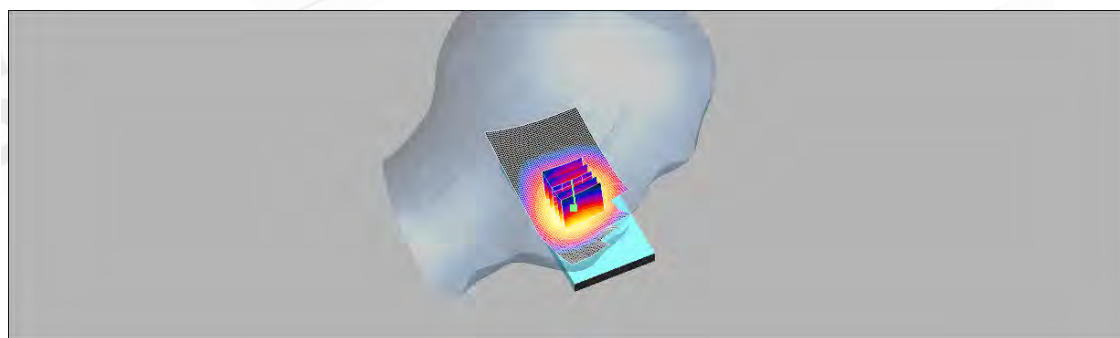
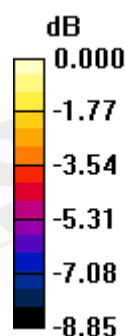
HEAD/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 5.28 V/m ; Power Drift = 0.012 dB

Peak SAR (extrapolated) = 0.477 W/kg

SAR(1 g) = 0.382 mW/g ; SAR(10 g) = 0.290 mW/g

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



0 dB = 0.400 mW/g

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Date: 2011/6/6

LE Cheek_CH4233

Communication System: WCDMA BAND5; Frequency: 846.6 MHz; Duty Cycle: 1:1
Medium: Head 835MHz Medium parameters used: $f = 847$ MHz; $\sigma = 0.93$ mho/m; $\epsilon_r = 41.2$;
 $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.25, 9.25, 9.25); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

HEAD/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.371 mW/g

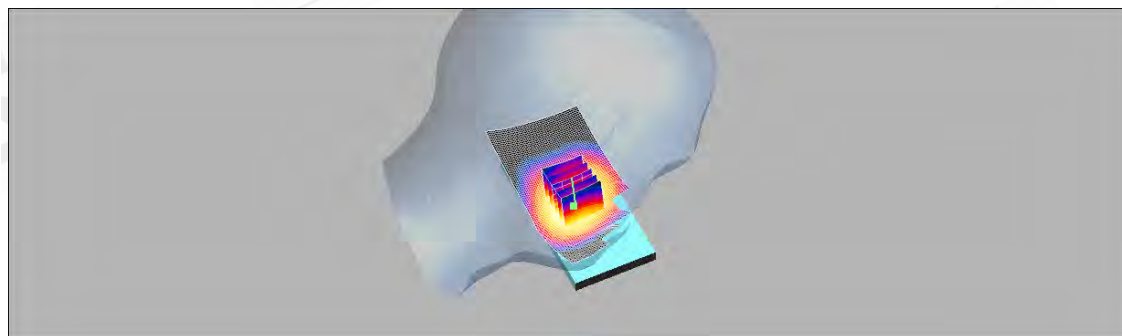
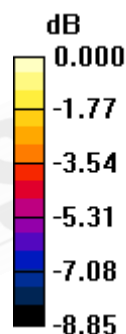
HEAD/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.03 V/m; Power Drift = 0.102 dB

Peak SAR (extrapolated) = 0.437 W/kg

SAR(1 g) = 0.354 mW/g; SAR(10 g) = 0.272 mW/g

Maximum value of SAR (measured) = 0.371 mW/g



0 dB = 0.371mW/g

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Date: 2011/6/6

RE Tilt_CH4183

Communication System: WCDMA BAND5; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: Head 835MHz Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.918 \text{ mho/m}$; $\epsilon_r = 41.4$;
 $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.25, 9.25, 9.25); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

HEAD/Area Scan (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.239 mW/g

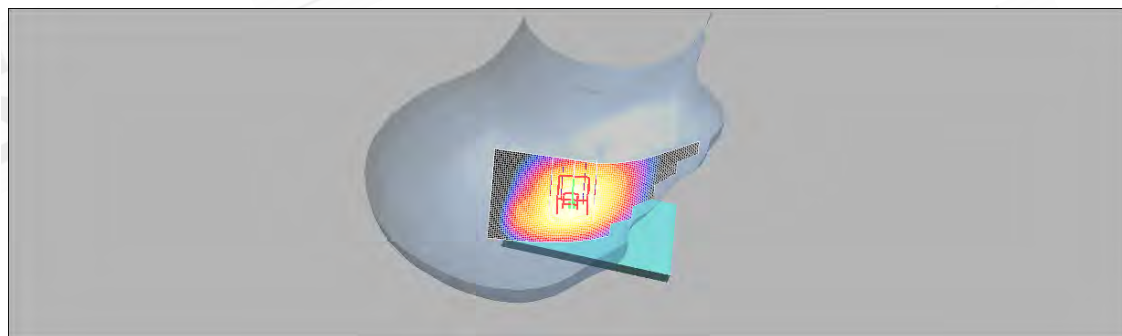
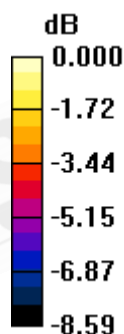
HEAD/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 8.08 V/m ; Power Drift = 0.123 dB

Peak SAR (extrapolated) = 0.283 W/kg

SAR(1 g) = 0.230 mW/g ; SAR(10 g) = 0.177 mW/g

Maximum value of SAR (measured) = 0.240 mW/g



0 dB = 0.240mW/g

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LE Tilt_CH4183

Communication System: WCDMA BAND5; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: Head 835MHz Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.918 \text{ mho/m}$; $\epsilon_r = 41.4$;
 $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.25, 9.25, 9.25); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

HEAD/Area Scan (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.231 mW/g

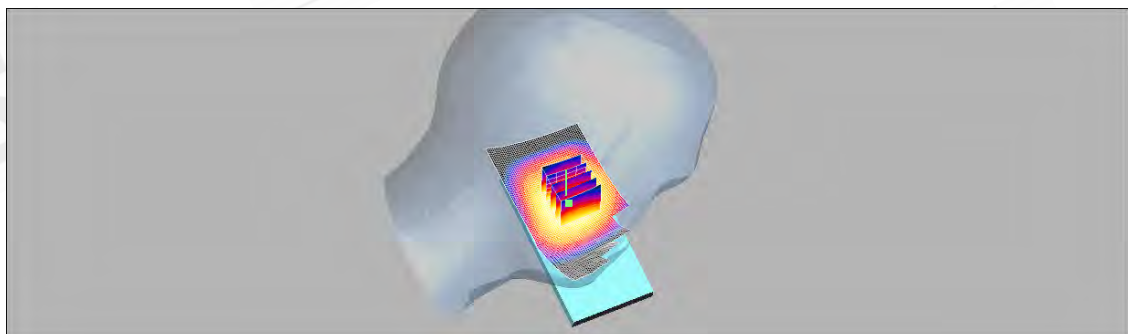
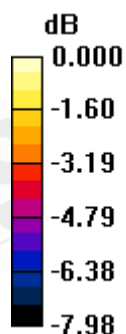
HEAD/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 8.73 V/m ; Power Drift = 0.003 dB

Peak SAR (extrapolated) = 0.273 W/kg

SAR(1 g) = 0.222 mW/g ; SAR(10 g) = 0.173 mW/g

Maximum value of SAR (measured) = 0.231 mW/g



0 dB = 0.231mW/g

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Date: 2011/6/6

Hotspot mode_Front side_CH4183

Communication System: WCDMA BAND5; Frequency: 846.6 MHz; Duty Cycle: 1:1
Medium: Muscle 835 MHz Medium parameters used: $f = 847 \text{ MHz}$; $\sigma = 1.02 \text{ mho/m}$; $\epsilon_r = 56.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.3, 9.3, 9.3); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (61x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.492 mW/g

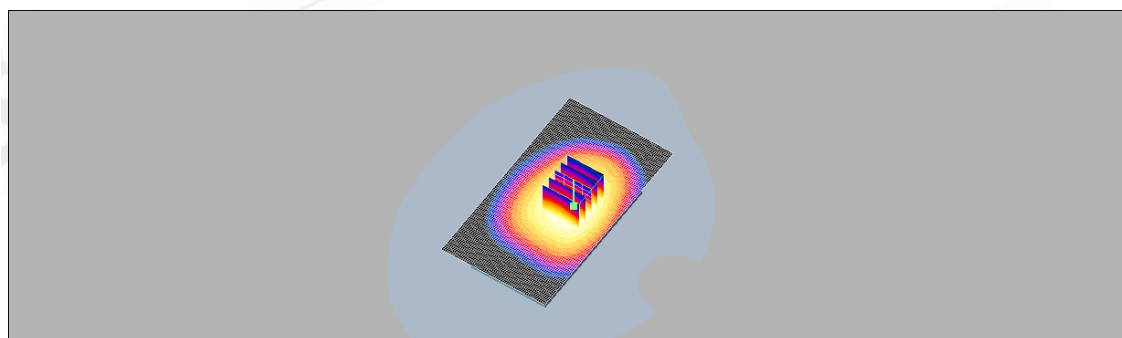
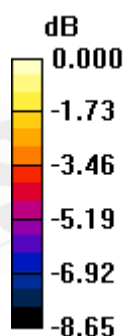
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 21.1 V/m ; Power Drift = -0.102 dB

Peak SAR (extrapolated) = 0.576 W/kg

SAR(1 g) = 0.459 mW/g ; SAR(10 g) = 0.350 mW/g

Maximum value of SAR (measured) = 0.480 mW/g



0 dB = 0.480 mW/g

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Date: 2011/6/6

Hotspot mode_Back side_CH4183

Communication System: WCDMA BAND5; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: Muscle 835 MHz Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 1.01 \text{ mho/m}$; $\epsilon_r = 56.2$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.3, 9.3, 9.3); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (61x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.608 mW/g

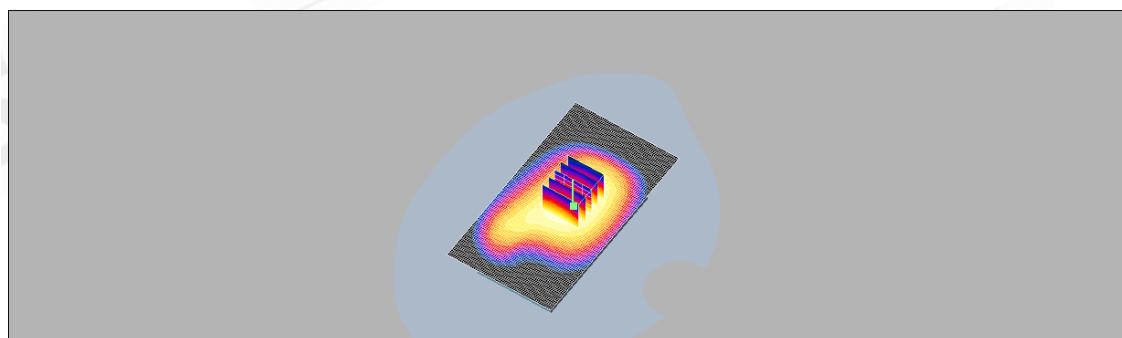
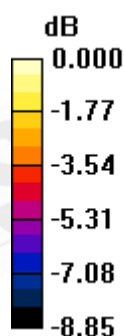
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 22.9 V/m ; Power Drift = 0.020 dB

Peak SAR (extrapolated) = 0.730 W/kg

SAR(1 g) = 0.578 mW/g ; SAR(10 g) = 0.436 mW/g

Maximum value of SAR (measured) = 0.607 mW/g



0 dB = 0.607 mW/g

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Date: 2011/6/6

Hotspot mode_Bottom side_CH4183

Communication System: WCDMA BAND5; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: Muscle 835 MHz Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 1.01 \text{ mho/m}$; $\epsilon_r = 56.2$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.3, 9.3, 9.3); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (51x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.065 mW/g

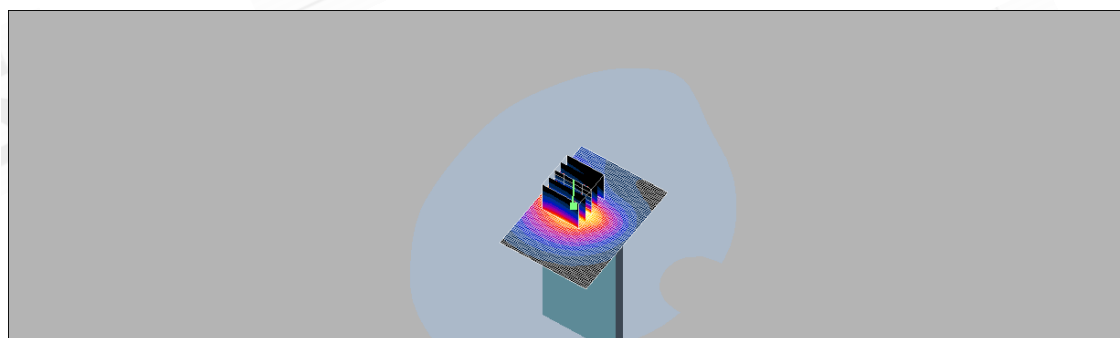
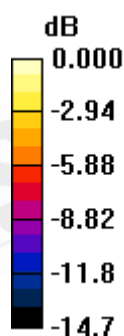
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.37 V/m ; Power Drift = 0.013 dB

Peak SAR (extrapolated) = 0.090 W/kg

SAR(1 g) = 0.057 mW/g ; SAR(10 g) = 0.038 mW/g

Maximum value of SAR (measured) = 0.060 mW/g



0 dB = 0.060 mW/g

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Date: 2011/6/6

Hotspot mode_Right side_CH4183

Communication System: WCDMA BAND5; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: Muscle 835 MHz Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 1.01 \text{ mho/m}$; $\epsilon_r = 56.2$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.3, 9.3, 9.3); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (51x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.431 mW/g

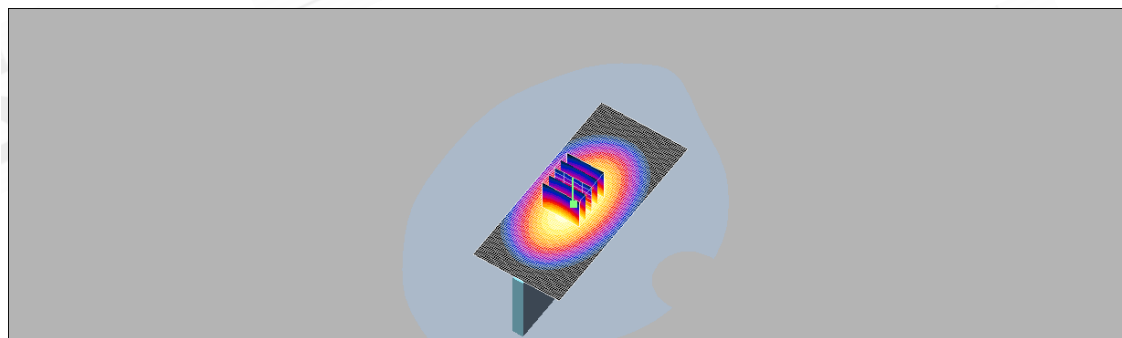
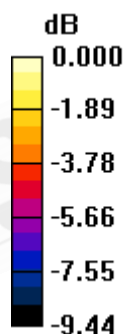
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 20.2 V/m ; Power Drift = 0.006 dB

Peak SAR (extrapolated) = 0.568 W/kg

SAR(1 g) = 0.404 mW/g ; SAR(10 g) = 0.280 mW/g

Maximum value of SAR (measured) = 0.429 mW/g



0 dB = 0.429 mW/g

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Date: 2011/6/6

Hotspot mode_Left side_CH4183

Communication System: WCDMA BAND5; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: Muscle 835 MHz Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 1.01 \text{ mho/m}$; $\epsilon_r = 56.2$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.3, 9.3, 9.3); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (51x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.675 mW/g

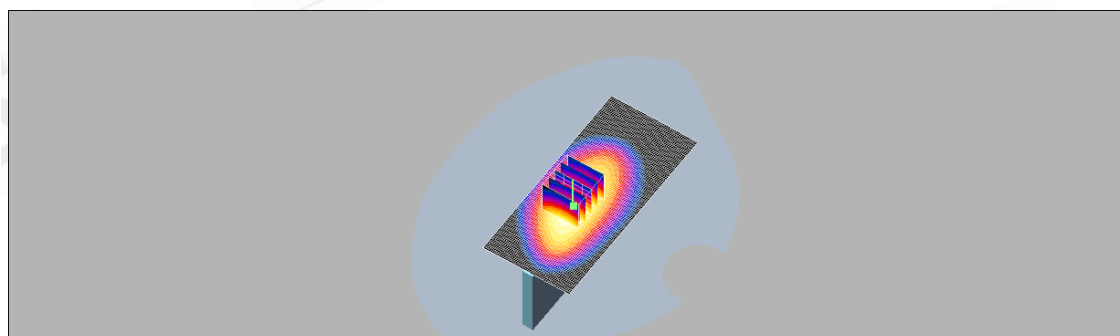
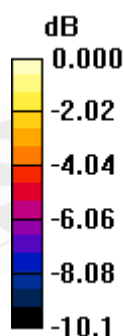
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 25.1 V/m ; Power Drift = 0.015 dB

Peak SAR (extrapolated) = 0.899 W/kg

SAR(1 g) = 0.631 mW/g ; SAR(10 g) = 0.432 mW/g

Maximum value of SAR (measured) = 0.675 mW/g



0 dB = 0.675 mW/g

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Date: 2011/8/22

Body worn_Front side_CH4183

Communication System: WCDMA BAND5; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: Muscle 835 MHz Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 1.02 \text{ mho/m}$; $\epsilon_r = 55.2$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.68, 5.68, 5.68); Calibrated: 2011/6/22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2011/6/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (61x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.422 mW/g

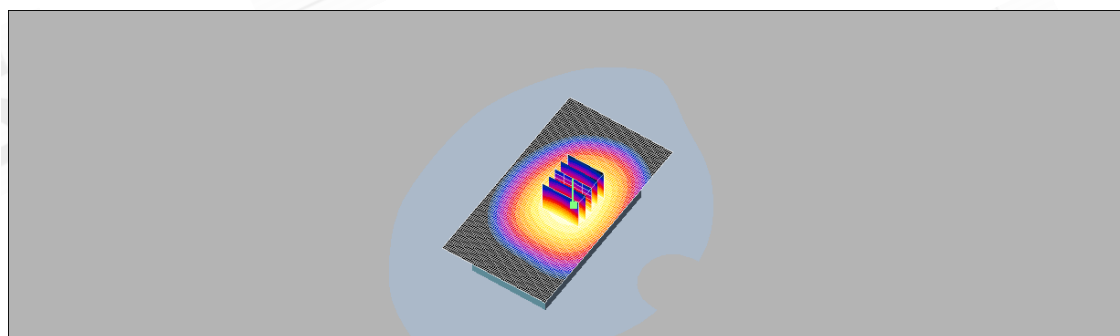
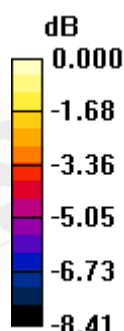
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 19.6 V/m ; Power Drift = 0.014 dB

Peak SAR (extrapolated) = 0.501 W/kg

SAR(1 g) = 0.401 mW/g ; SAR(10 g) = 0.304 mW/g

Maximum value of SAR (measured) = 0.420 mW/g



0 dB = 0.420 mW/g

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Date: 2011/8/22

Body worn_Back side_CH4183

Communication System: WCDMA BAND5; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: Muscle 835 MHz Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 1.02 \text{ mho/m}$; $\epsilon_r = 55.2$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.68, 5.68, 5.68); Calibrated: 2011/6/22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2011/6/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (61x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.494 mW/g

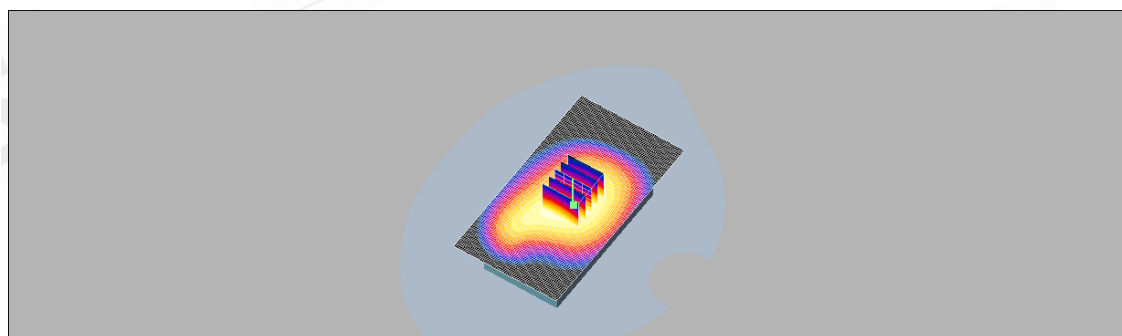
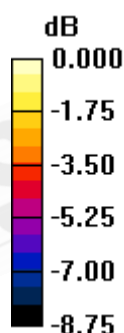
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 21.8 V/m ; Power Drift = -0.003 dB

Peak SAR (extrapolated) = 0.596 W/kg

SAR(1 g) = 0.470 mW/g ; SAR(10 g) = 0.351 mW/g

Maximum value of SAR (measured) = 0.496 mW/g



0 dB = 0.496 mW/g

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RE Cheek_WLAN802.11 b_CH6

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HEAD 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.79 \text{ mho/m}$; $\epsilon_r = 37.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(6.99, 6.99, 6.99); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

HEAD/Area Scan (61x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.211 mW/g

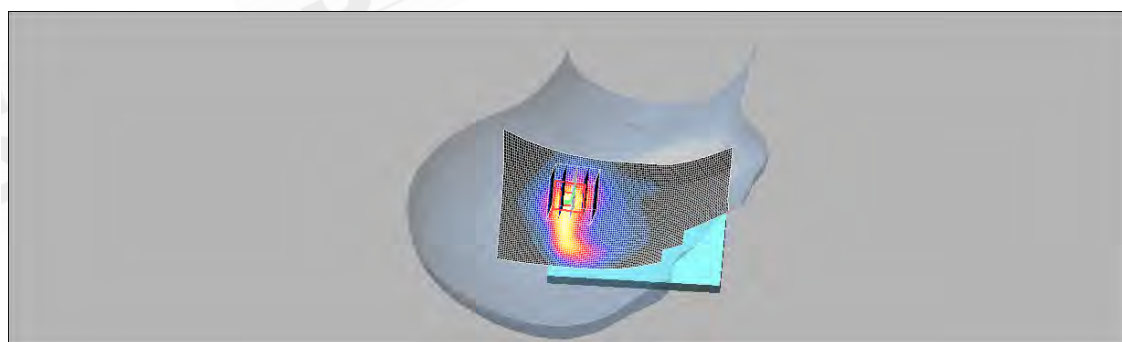
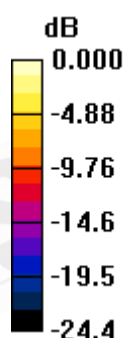
HEAD/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.69 V/m ; Power Drift = 0.188 dB

Peak SAR (extrapolated) = 0.375 W/kg

SAR(1 g) = 0.189 mW/g ; SAR(10 g) = 0.097 mW/g

Maximum value of SAR (measured) = 0.203 mW/g



0 dB = 0.203 mW/g

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Date: 2011/6/11

LE Cheek_WLAN802.11 b_CH1

Communication System: Wireless LAN; Frequency: 2412 MHz; Duty Cycle: 1:1
Medium: HEAD 2450 Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.78 \text{ mho/m}$; $\epsilon_r = 38.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(6.99, 6.99, 6.99); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

HEAD/Area Scan (61x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.483 mW/g

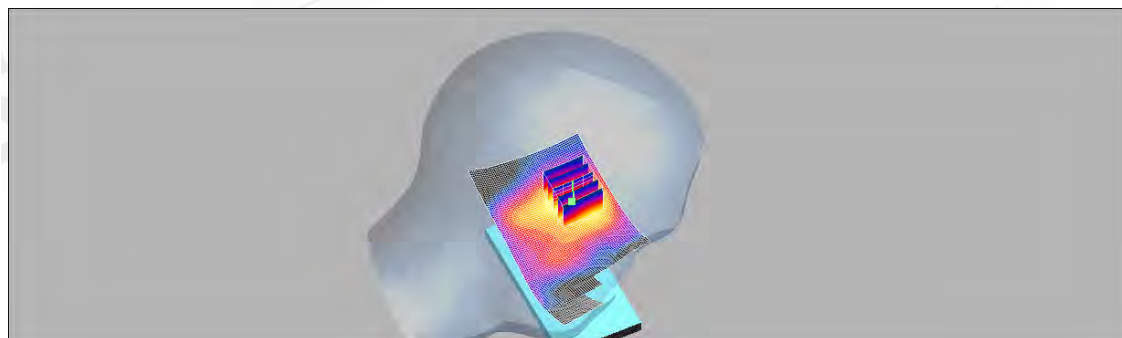
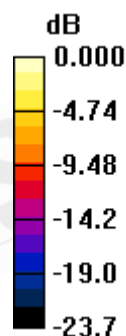
HEAD/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.73 V/m ; Power Drift = -0.139 dB

Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.441 mW/g ; SAR(10 g) = 0.200 mW/g

Maximum value of SAR (measured) = 0.494 mW/g



0 dB = 0.494 mW/g

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Date: 2011/6/11

LE Cheek_WLAN802.11 b_CH6

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium: HEAD 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.79 \text{ mho/m}$; $\epsilon_r = 37.9$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(6.99, 6.99, 6.99); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

HEAD/Area Scan (61x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.449 mW/g

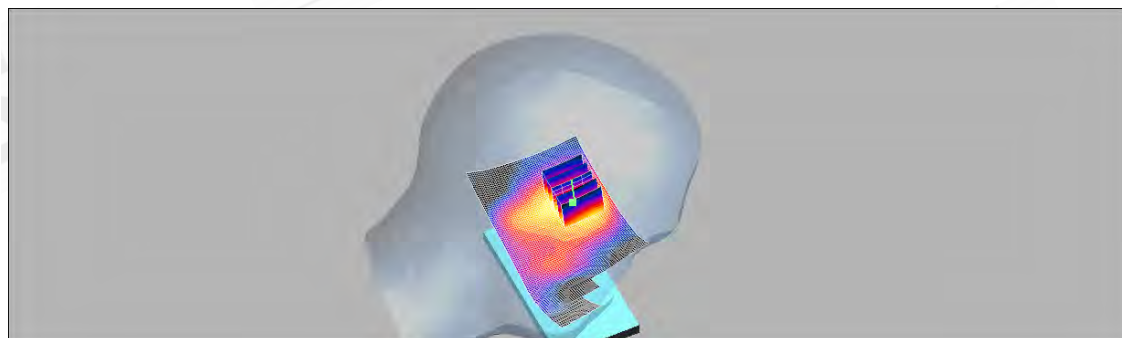
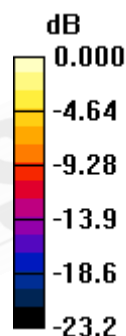
HEAD/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.29 V/m ; Power Drift = 0.156 dB

Peak SAR (extrapolated) = 0.945 W/kg

SAR(1 g) = 0.412 mW/g ; SAR(10 g) = 0.188 mW/g

Maximum value of SAR (measured) = 0.469 mW/g



0 dB = 0.469 mW/g

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Date: 2011/6/11

LE Cheek_WLAN802.11 b_CH11

Communication System: Wireless LAN; Frequency: 2462 MHz; Duty Cycle: 1:1
Medium: HEAD 2450 Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.81 \text{ mho/m}$; $\epsilon_r = 37.8$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(6.99, 6.99, 6.99); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

HEAD/Area Scan (61x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.376 mW/g

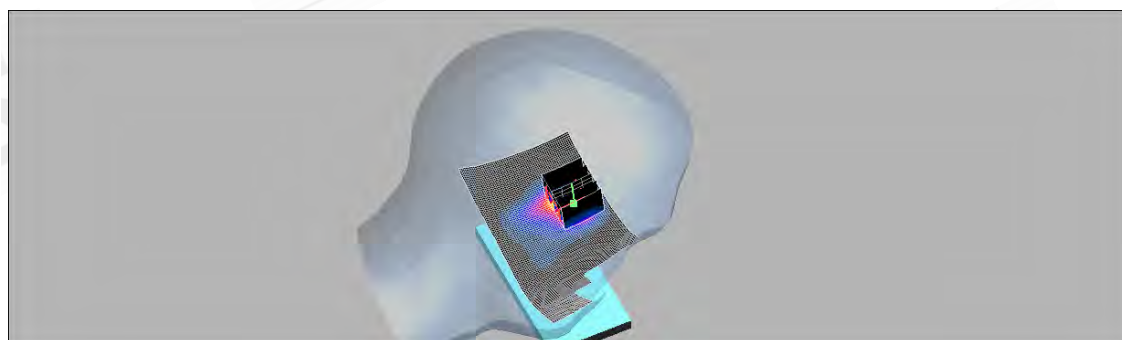
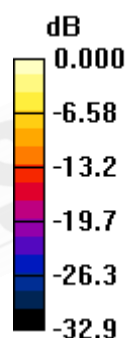
HEAD/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.13 V/m ; Power Drift = 0.063 dB

Peak SAR (extrapolated) = 0.825 W/kg

SAR(1 g) = 0.350 mW/g ; SAR(10 g) = 0.162 mW/g

Maximum value of SAR (measured) = 0.382 mW/g



0 dB = 0.382 mW/g

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Date: 2011/6/11

RE Tilt_WLAN802.11 b_CH6

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium: HEAD 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.79 \text{ mho/m}$; $\epsilon_r = 37.9$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(6.99, 6.99, 6.99); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

HEAD/Area Scan (61x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.131 mW/g

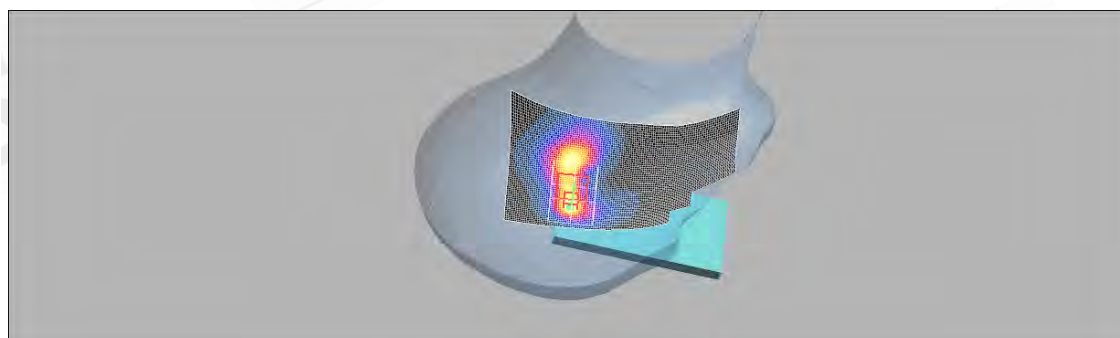
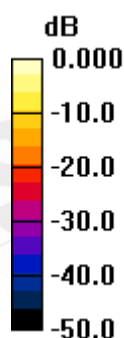
HEAD/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.41 V/m ; Power Drift = 0.126 dB

Peak SAR (extrapolated) = 0.230 W/kg

SAR(1 g) = 0.113 mW/g ; SAR(10 g) = 0.055 mW/g

Maximum value of SAR (measured) = 0.130 mW/g



0 dB = 0.130 mW/g

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Date: 2011/6/11

LE Tilt_WLAN802.11 b_CH6

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium: HEAD 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.79 \text{ mho/m}$; $\epsilon_r = 37.9$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(6.99, 6.99, 6.99); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

HEAD/Area Scan (61x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.304 mW/g

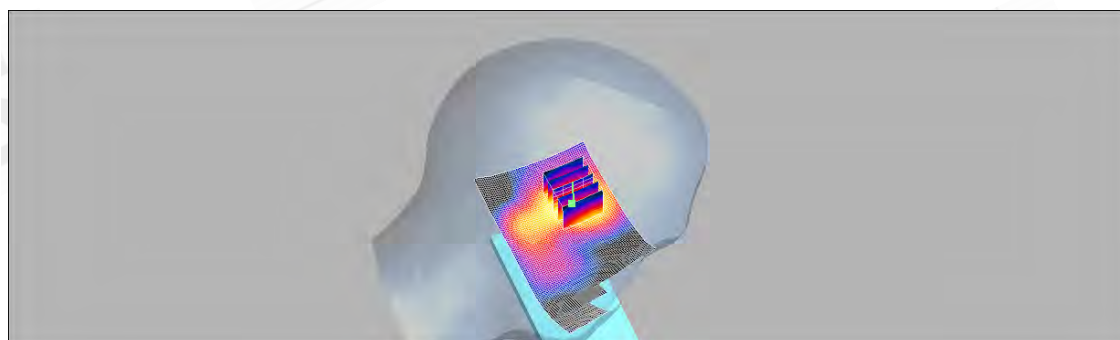
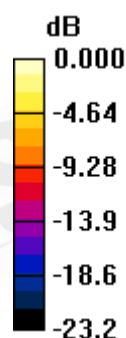
HEAD/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 6.66 V/m ; Power Drift = 0.101 dB

Peak SAR (extrapolated) = 0.601 W/kg

SAR(1 g) = 0.283 mW/g ; SAR(10 g) = 0.133 mW/g

Maximum value of SAR (measured) = 0.317 mW/g



0 dB = 0.317 mW/g

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Date: 2011/6/11

LE Cheek_WLAN802.11 b_CH1_repeated with memory card

Communication System: Wireless LAN; Frequency: 2412 MHz; Duty Cycle: 1:1
Medium: HEAD 2450 Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.78 \text{ mho/m}$; $\epsilon_r = 38.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(6.99, 6.99, 6.99); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

HEAD/Area Scan (61x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.453 mW/g

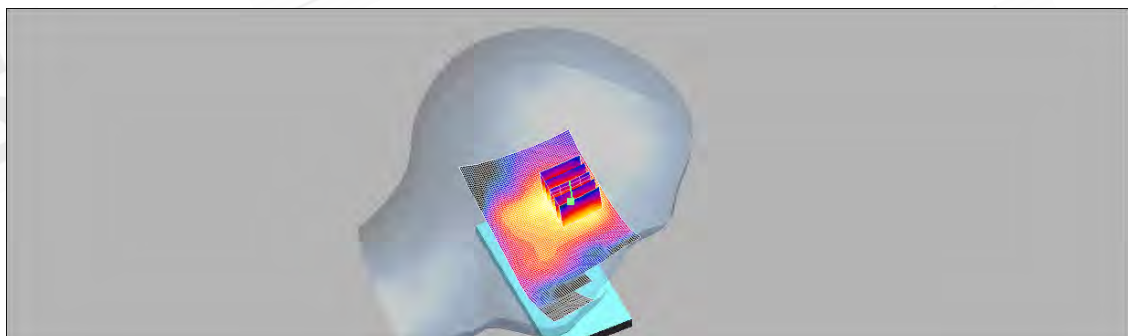
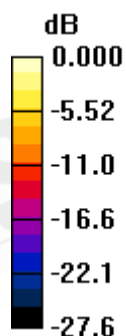
HEAD/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.73 V/m ; Power Drift = 0.192 dB

Peak SAR (extrapolated) = 0.778 W/kg

SAR(1 g) = 0.423 mW/g ; SAR(10 g) = 0.193 mW/g

Maximum value of SAR (measured) = 0.377 mW/g



0 dB = 0.377 mW/g

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Date: 2011/6/11

Hotspot mode_ WLAN802.11 b_Front side_CH6

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium: Muscle 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.94 \text{ mho/m}$; $\epsilon_r = 52.1$;
 $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(6.96, 6.96, 6.96); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (71x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.119 mW/g

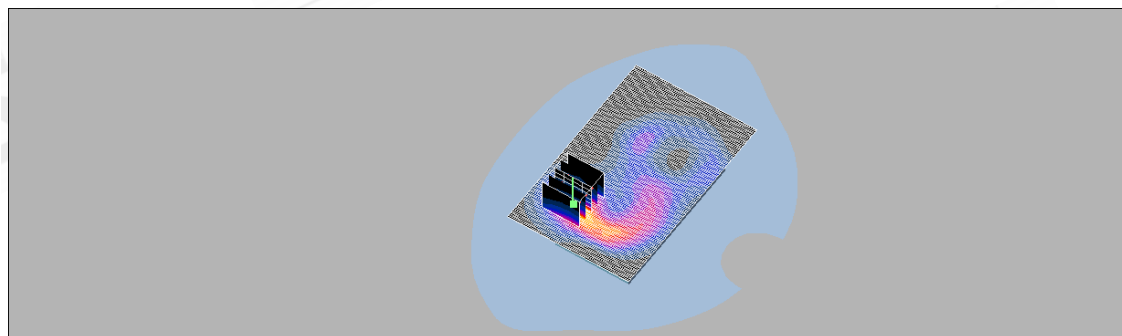
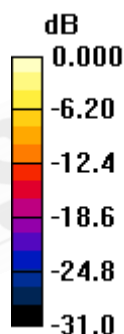
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 4.61 V/m; Power Drift = 0.075 dB

Peak SAR (extrapolated) = 0.212 W/kg

SAR(1 g) = 0.110 mW/g; SAR(10 g) = 0.056 mW/g

Maximum value of SAR (measured) = 0.123 mW/g



0 dB = 0.123mW/g

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Date: 2011/6/11

Hotspot mode_ WLAN802.11 b_Back side_CH6

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium: Muscle 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.94 \text{ mho/m}$; $\epsilon_r = 52.1$;
 $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(6.96, 6.96, 6.96); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (71x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.231 mW/g

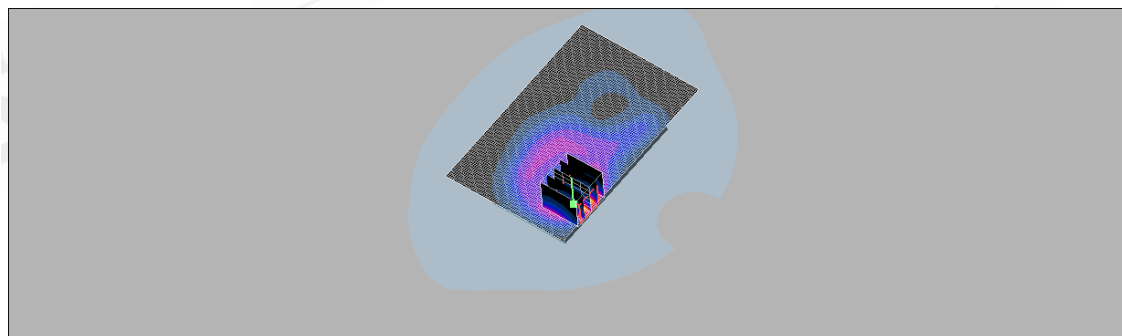
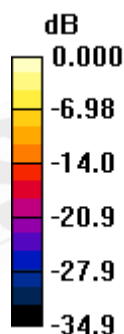
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 6.22 V/m ; Power Drift = 0.160 dB

Peak SAR (extrapolated) = 0.447 W/kg

SAR(1 g) = 0.222 mW/g ; SAR(10 g) = 0.105 mW/g

Maximum value of SAR (measured) = 0.241 mW/g



0 dB = 0.241 mW/g

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Date: 2011/6/11

Hotspot mode_ WLAN802.11 b_Top side_CH6

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium: Muscle 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.94 \text{ mho/m}$; $\epsilon_r = 52.1$;
 $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(6.96, 6.96, 6.96); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (51x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.041 mW/g

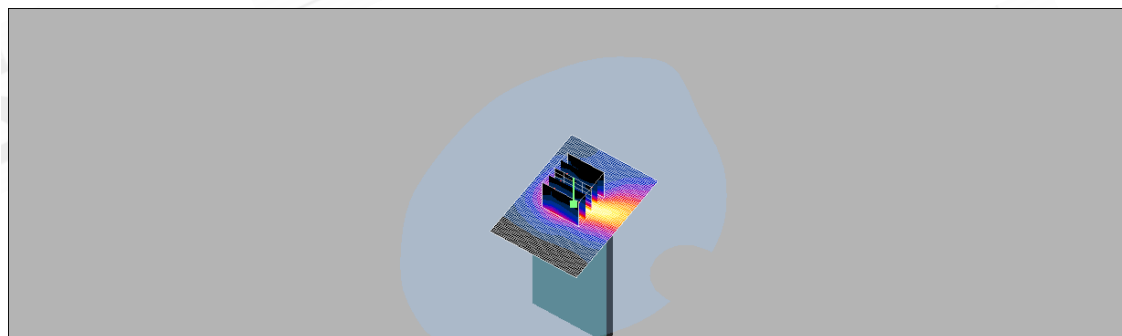
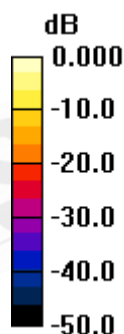
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 4.57 V/m ; Power Drift = 0.184 dB

Peak SAR (extrapolated) = 0.076 W/kg

SAR(1 g) = 0.041 mW/g ; SAR(10 g) = 0.022 mW/g

Maximum value of SAR (measured) = 0.045 mW/g



0 dB = 0.045 mW/g

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Date: 2011/6/11

Hotspot mode_ WLAN802.11 b_Right side_CH6

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium: Muscle 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.94 \text{ mho/m}$; $\epsilon_r = 52.1$;
 $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(6.96, 6.96, 6.96); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (51x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.331 mW/g

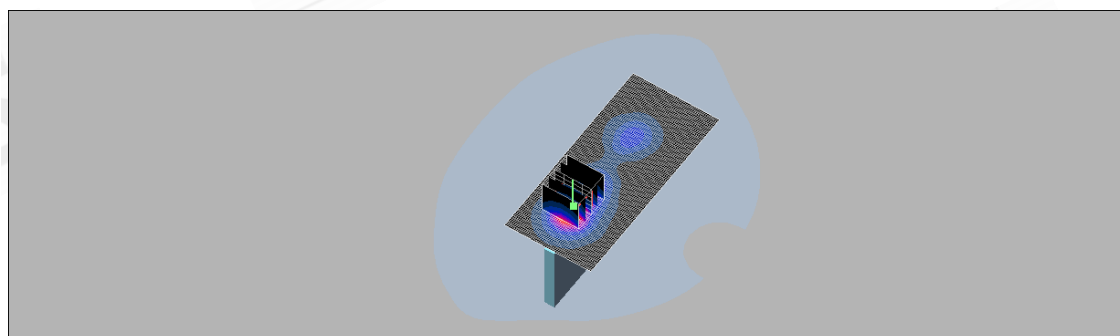
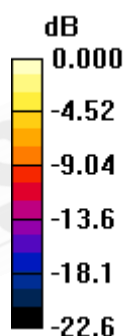
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 6.80 V/m; Power Drift = -0.099 dB

Peak SAR (extrapolated) = 0.568 W/kg

SAR(1 g) = 0.286 mW/g; SAR(10 g) = 0.133 mW/g

Maximum value of SAR (measured) = 0.327 mW/g



0 dB = 0.327mW/g

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Date: 2011/6/11

Hotspot mode_ WLAN802.11 b_Left side_CH6

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium: Muscle 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.94 \text{ mho/m}$; $\epsilon_r = 52.1$;
 $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(6.96, 6.96, 6.96); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (51x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.022 mW/g

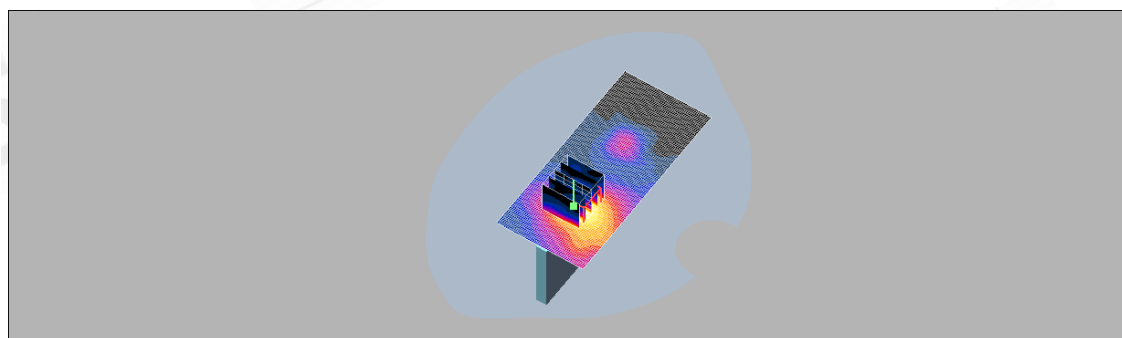
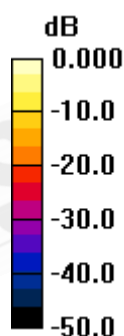
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 2.07 V/m ; Power Drift = 0.152 dB

Peak SAR (extrapolated) = 0.041 W/kg

SAR(1 g) = 0.022 mW/g ; SAR(10 g) = 0.012 mW/g

Maximum value of SAR (measured) = 0.023 mW/g



0 dB = 0.023 mW/g

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Date: 2011/6/11

Hotspot mode_ WLAN802.11 b_Right side_CH6_repeated with headset

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium: Muscle 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.94 \text{ mho/m}$; $\epsilon_r = 52.1$;
 $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(6.96, 6.96, 6.96); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (51x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.358 mW/g

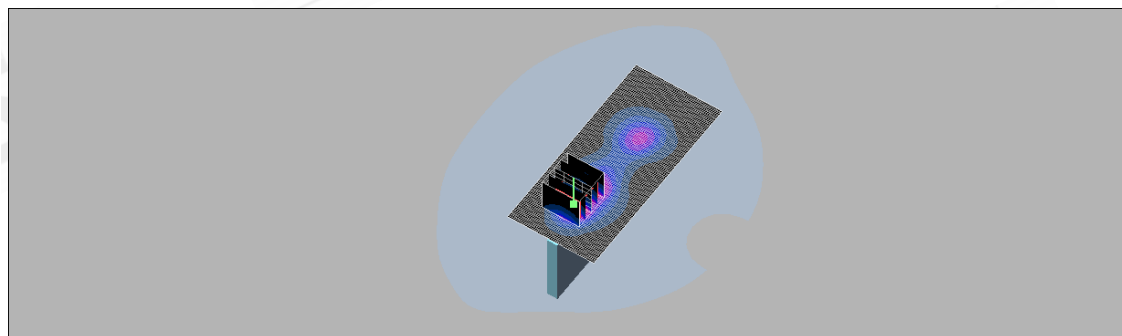
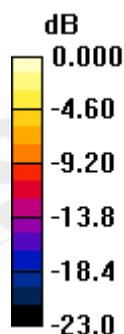
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 7.79 V/m ; Power Drift = 0.110 dB

Peak SAR (extrapolated) = 0.580 W/kg

SAR(1 g) = 0.290 mW/g ; SAR(10 g) = 0.140 mW/g

Maximum value of SAR (measured) = 0.340 mW/g



0 dB = 0.340 mW/g

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Date: 2011/6/11

Hotspot mode_ WLAN802.11 b_Right side_CH6_ repeated with memory card

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium: Muscle 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.94 \text{ mho/m}$; $\epsilon_r = 52.1$;
 $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(6.96, 6.96, 6.96); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (51x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.334 mW/g

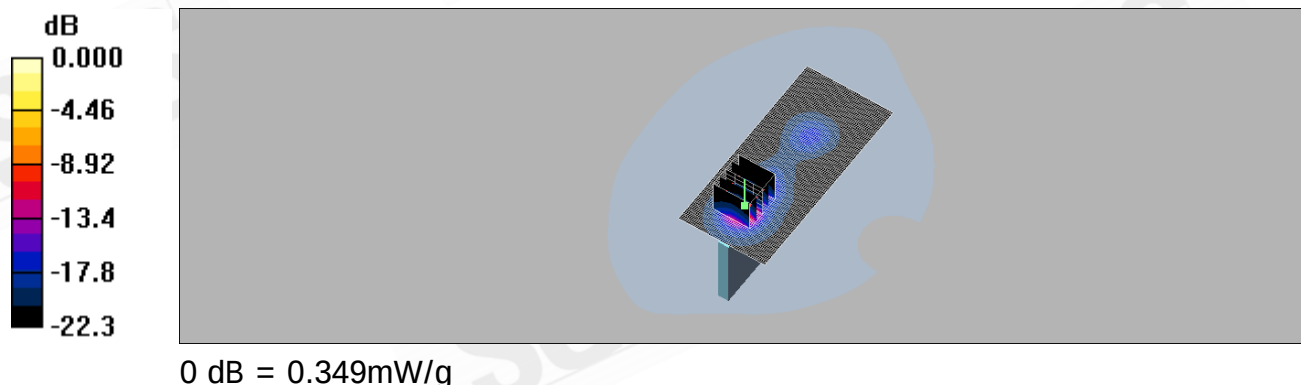
BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$,
 $dz=5\text{mm}$

Reference Value = 6.38 V/m; Power Drift = 0.063 dB

Peak SAR (extrapolated) = 0.594 W/kg

SAR(1 g) = 0.296 mW/g; SAR(10 g) = 0.138 mW/g

Maximum value of SAR (measured) = 0.349 mW/g



0 dB = 0.349mW/g

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5. System Verification

Date: 2011/6/6

DUT: Dipole 835 MHz; (Head)

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

Medium: Head 835MHz Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.917 \text{ mho/m}$; $\epsilon_r = 41.4$;
 $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.25, 9.25, 9.25); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Pin=250mW/Area Scan (61x61x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 2.53 mW/g

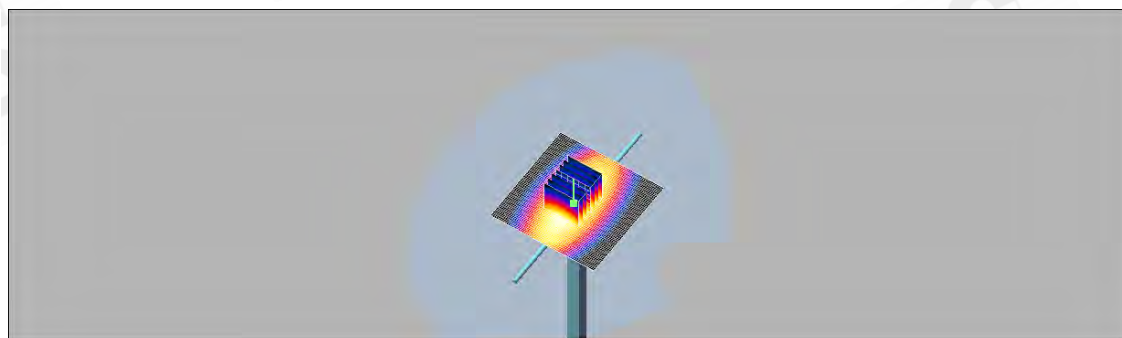
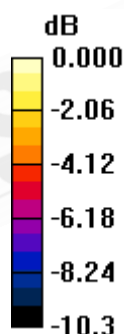
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$,
 $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 53.0 V/m; Power Drift = -0.001 dB

Peak SAR (extrapolated) = 3.51 W/kg

SAR(1 g) = 2.34 mW/g; SAR(10 g) = 1.53 mW/g

Maximum value of SAR (measured) = 2.53 mW/g



0 dB = 2.53mW/g

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DUT: Dipole 835 MHz; (Body)

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

Medium: Muscle 835 MHz Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 1.01 \text{ mho/m}$; $\epsilon_r = 56.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.3, 9.3, 9.3); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Pin=250mW/Area Scan (61x61x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

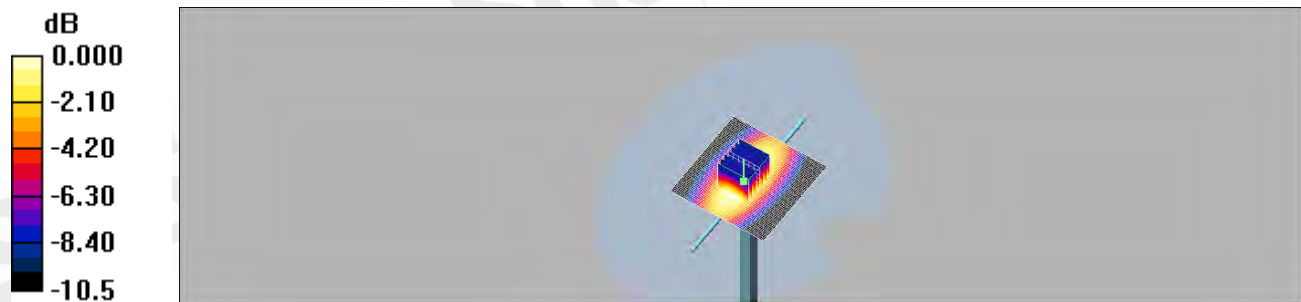
Maximum value of SAR (interpolated) = 2.87 mW/g

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 53.7 V/m ; Power Drift = 0.012 dB

Peak SAR (extrapolated) = 3.95 W/kg

SAR(1 g) = 2.47 mW/g ; SAR(10 g) = 1.75 mW/g



0 dB = 2.87 mW/g

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Date: 2011/6/8

DUT: Dipole 1900 MHz;(Head)

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

Medium: Head 1900MHz Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.47 \text{ mho/m}$; $\epsilon_r = 39.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.78, 7.78, 7.78); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Pin=250mw/Area Scan (51x61x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 13.0 mW/g

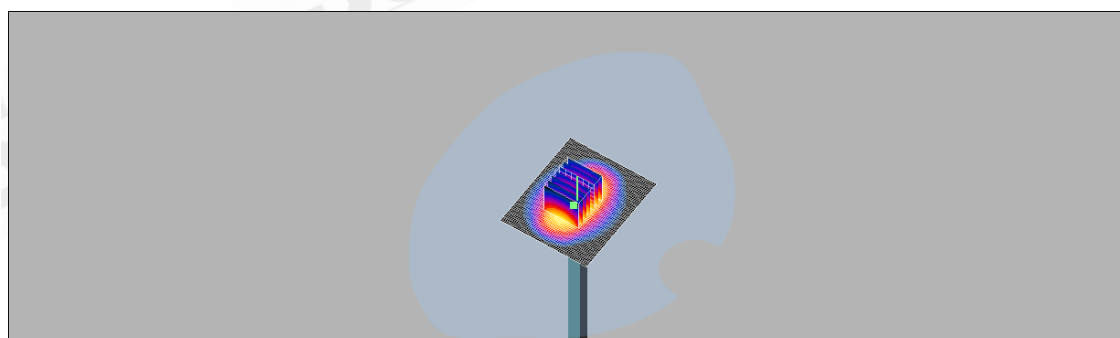
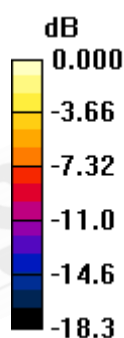
Pin=250mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 90.4 V/m; Power Drift = 0.024 dB

Peak SAR (extrapolated) = 19.3 W/kg

SAR(1 g) = 9.98 mW/g; SAR(10 g) = 5.23 mW/g

Maximum value of SAR (measured) = 11.5 mW/g



0 dB = 11.5mW/g

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Date: 2011/6/9

DUT: Dipole 1900 MHz; (Body)

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

Medium: M1800 & 1900 Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.57 \text{ mho/m}$; $\epsilon_r = 53$;
 $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.51, 7.51, 7.51); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Pin=250mW/Area Scan (51x61x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 12.9 mW/g

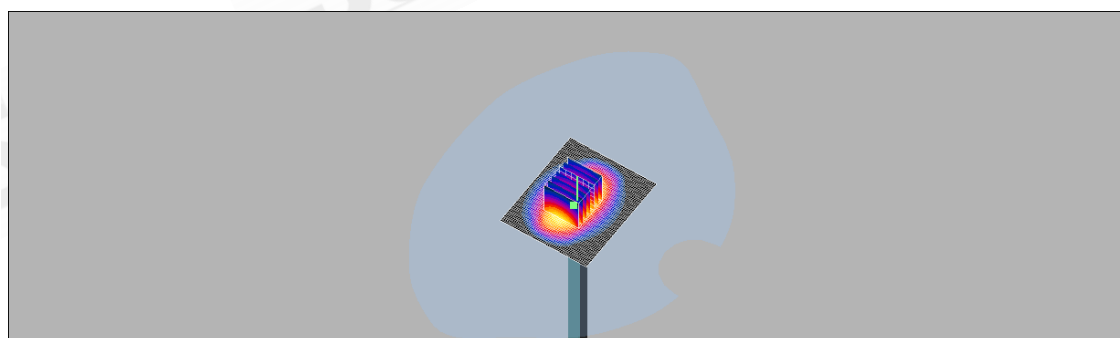
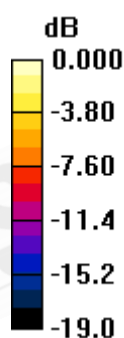
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$,
 $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 86.2 V/m; Power Drift = 0.009 dB

Peak SAR (extrapolated) = 18.0 W/kg

SAR(1 g) = 9.85 mW/g; SAR(10 g) = 5 mW/g

Maximum value of SAR (measured) = 11.2 mW/g



0 dB = 11.2mW/g

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Date: 2011/6/11

DUT: Dipole 2450 MHz; (Head)

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

Medium: HEAD 2450 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.79$ mho/m; $\epsilon_r = 37.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(6.99, 6.99, 6.99); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Pin=250mW / Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 15.1 mW/g

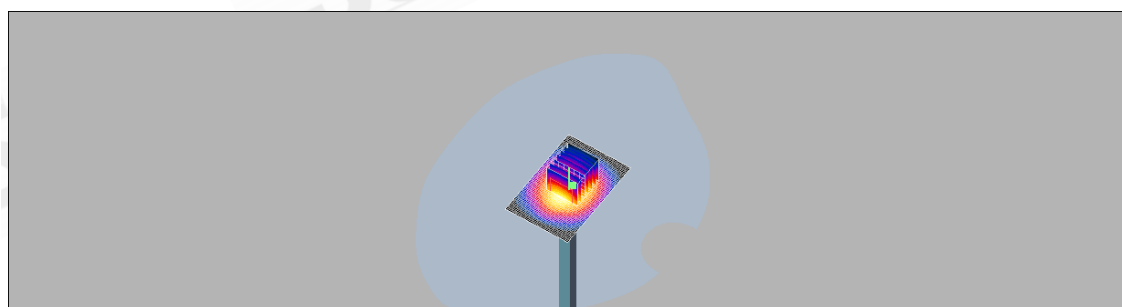
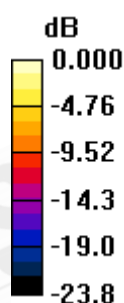
Pin=250mW / Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 89.9 V/m; Power Drift = -0.115 dB

Peak SAR (extrapolated) = 27.8 W/kg

SAR(1 g) = 13.2 mW/g; SAR(10 g) = 6.1 mW/g

Maximum value of SAR (measured) = 14.6 mW/g



0 dB = 14.6mW/g

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Date: 2011/6/11

DUT: Dipole 2450 MHz; (Body)

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

Medium: M 2450 Medium parameters used: $f = 2450 \text{ MHz}$; $\sigma = 1.97 \text{ mho/m}$; $\epsilon_r = 52.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(6.96, 6.96, 6.96); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Pin=250mW/Area Scan (51x61x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 17.6 mW/g

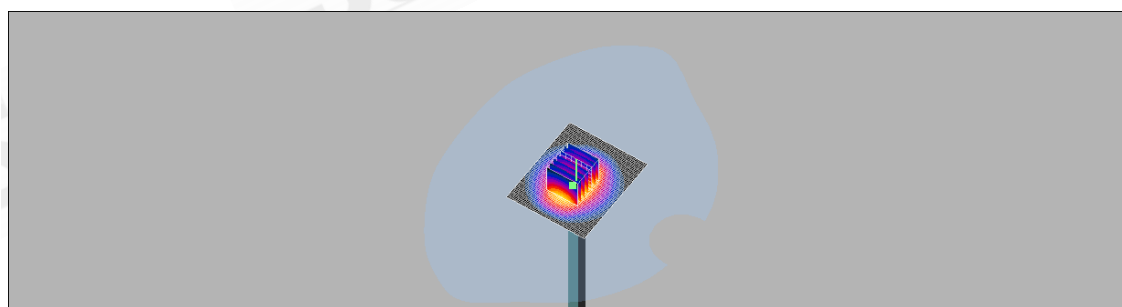
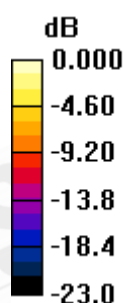
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 86.2 V/m; Power Drift = -0.031 dB

Peak SAR (extrapolated) = 27.3 W/kg

SAR(1 g) = 12.6 mW/g; SAR(10 g) = 5.73 mW/g

Maximum value of SAR (measured) = 14.4 mW/g



0 dB = 14.4mW/g

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Date: 2011/8/22

DUT: Dipole 835 MHz; (Body)

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

Medium: Muscle 835 MHz Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 1.02 \text{ mho/m}$; $\epsilon_r = 55.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.68, 5.68, 5.68); Calibrated: 2011/6/22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2011/6/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Pin=250mW/Area Scan (61x61x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 2.68 mW/g

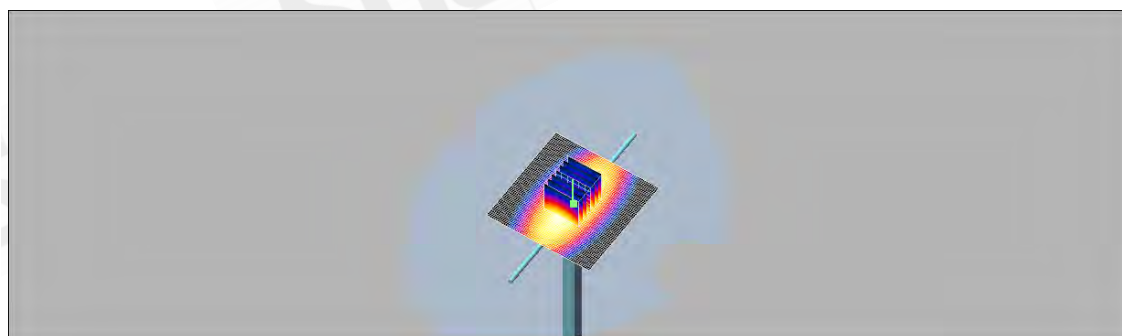
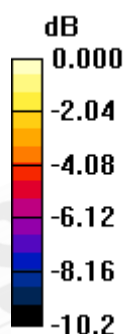
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 51.6 V/m; Power Drift = 0.000 dB

Peak SAR (extrapolated) = 3.64 W/kg

SAR(1 g) = 2.46 mW/g; SAR(10 g) = 1.62 mW/g

Maximum value of SAR (measured) = 2.68 mW/g



0 dB = 2.68mW/g

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Date: 2011/8/22

DUT: Dipole 1900 MHz; (Body)

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

Medium: M1800 & 1900 Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.60 \text{ mho/m}$; $\epsilon_r = 51.4$;
 $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.32, 4.32, 4.32); Calibrated: 2011/6/22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2011/6/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Pin=250mW/Area Scan (51x61x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 13.0 mW/g

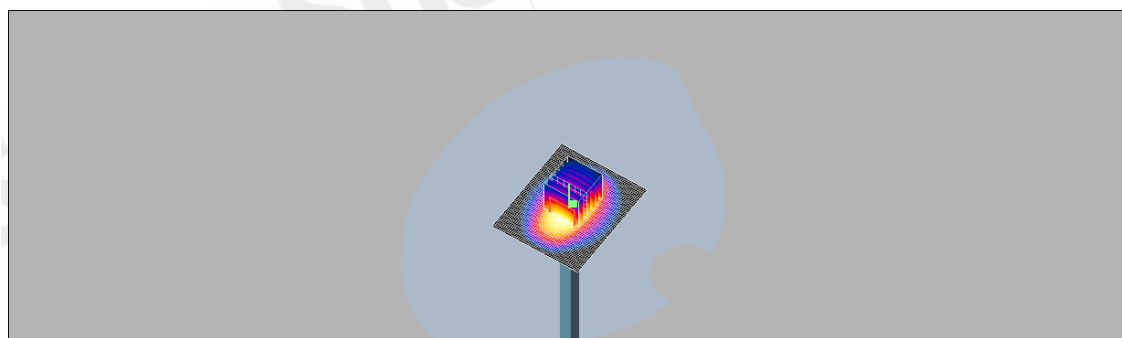
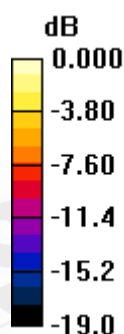
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$,
 $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 84.7 V/m; Power Drift = -0.018 dB

Peak SAR (extrapolated) = 18.6 W/kg

SAR(1 g) = 9.95 mW/g; SAR(10 g) = 5.07 mW/g

Maximum value of SAR (measured) = 11.2 mW/g



0 dB = 11.2mW/g

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Date: 2011/9/13

DUT: Dipole 835 MHz; (Head)

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

Medium: Head 900 MHz Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.896 \text{ mho/m}$; $\epsilon_r = 41.9$;
 $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.25, 9.25, 9.25); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2011/6/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Pin=250mW/Area Scan (61x61x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 2.43 mW/g

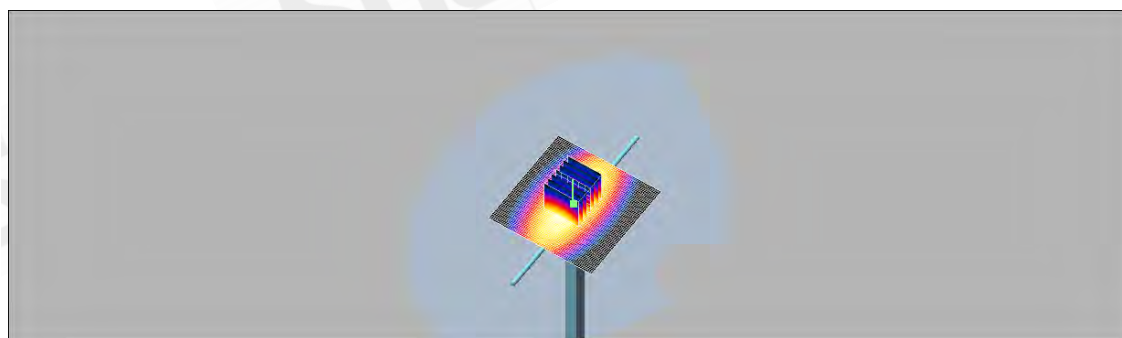
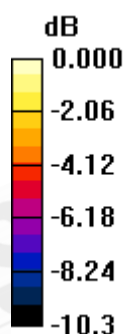
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$,
 $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 52.5 V/m; Power Drift = 0.013 dB

Peak SAR (extrapolated) = 3.36 W/kg

SAR(1 g) = 2.25 mW/g; SAR(10 g) = 1.48 mW/g

Maximum value of SAR (measured) = 2.44 mW/g



0 dB = 2.44mW/g

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Date: 2011/9/13

DUT: Dipole 1900 MHz; (Head)

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

Medium: Head 1900MHz Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.42 \text{ mho/m}$; $\epsilon_r = 40.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.78, 7.78, 7.78); Calibrated: 2011/4/19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2011/6/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Pin=250mw/Area Scan (51x61x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 12.4 mW/g

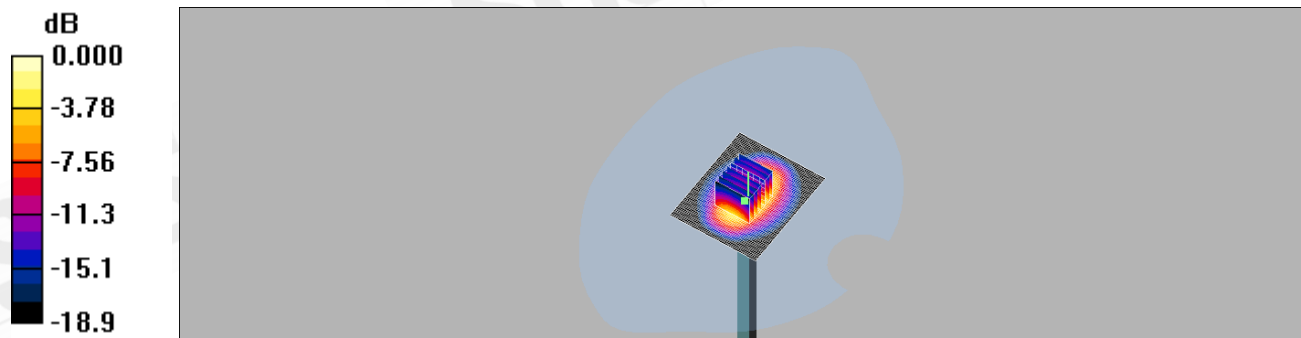
Pin=250mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 87.1 V/m; Power Drift = -0.007 dB

Peak SAR (extrapolated) = 18.3 W/kg

SAR(1 g) = 9.71 mW/g; SAR(10 g) = 5.1 mW/g

Maximum value of SAR (measured) = 10.8 mW/g



0 dB = 10.8mW/g

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6. DAE & Probe Calibration certificate

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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 108

Client **SGS-TW**

Certificate No: **DAE4-547_Aug10**

CALIBRATION CERTIFICATE

Object **DAE4 - SD 000 D04 BJ - SN: 547**

Calibration procedure(s) **QA CAL-06.v22
Calibration procedure for the data acquisition electronics (DAE)**

Calibration date: **August 18, 2010**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature $(22 \pm 3)^{\circ}\text{C}$ and humidity $< 70\%$.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Keithley Multimeter Type 2001	SN: 0810278	1-Oct-09 (No: 9055)	Oct-10
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Calibrator Box V1.1	SE UMS 006 AB 1004	07-Jun-10 (in house check)	In house check: Jun-11

	Name	Function	Signature
Calibrated by:	Dominique Steffen	Technician	
Approved by:	Fin Bornholt	R&D Director	

Issued: August 18, 2010

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Certificate No: DAE4-547_Aug10

Page 1 of 5

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Accreditation No.: SCS 108

Client **Auden**

Certificate No: DAE4-679_Jun11

CALIBRATION CERTIFICATE

Object: DAE4 - SD 000 D04 BJ - SN: 679

Calibration procedure(s): QA CAL-06.v23
Calibration procedure for the data acquisition electronics (DAE)

Calibration date: June 24, 2011

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature $(22 \pm 3)^{\circ}\text{C}$ and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Keithley Multimeter Type 2001	SN: 0810278	28-Sep-10 (No:10376)	Sep-11
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Calibrator Box V1.1	SE UMS 006 AB 1004	08-Jun-11 (in house check)	In house check: Jun-12

Calibrated by:	Name Dominique Steffen	Function Technician	Signature
Approved by:	Fin Bornholt	R&D Director	

Issued: June 24, 2011

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Certificate No: DAE4-679_Jun11

Page 1 of 5

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Accreditation No.: **SCS 108**

Client **SGS-TW (Auden)**

Certificate No: **EX3-3770_Apr11**

CALIBRATION CERTIFICATE

Object	EX3DV4 - SN:3770
Calibration procedure(s)	QA CAL-01.v7, QA CAL-14.v3, QA CAL-23.v4, QA CAL-25.v3 Calibration procedure for dosimetric E-field probes
Calibration date:	April 19, 2011
This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.	
All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.	
Calibration Equipment used (M&TE critical for calibration)	

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	31-Mar-11 (No. 217-01372)	Apr-12
Power sensor E4412A	MY41495277	31-Mar-11 (No. 217-01372)	Apr-12
Power sensor E4412A	MY41498087	31-Mar-11 (No. 217-01372)	Apr-12
Reference 3 dB Attenuator	SN: S5054 (3c)	29-Mar-11 (No. 217-01369)	Apr-12
Reference 20 dB Attenuator	SN: S5086 (20b)	29-Mar-11 (No. 217-01367)	Apr-12
Reference 30 dB Attenuator	SN: S5129 (30b)	29-Mar-11 (No. 217-01370)	Apr-12
Reference Probe ES3DV2	SN: 3013	29-Dec-10 (No. ES3-3013_Dec10)	Dec-11
DAE4	SN: 654	23-Apr-10 (No. DAE4-654_Apr10)	Apr-11
Secondary Standards	ID	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (in house check Oct-09)	In house check: Oct-11
Network Analyzer HP 8753E	US37390585	18-Oct-01 (in house check Oct-10)	In house check: Oct-11

Calibrated by:	Name Katja Pokovic	Function Technical Manager	Signature
Approved by:	Name Fin Bornholt	Function R&D Director	Signature
			Issued: April 19, 2011
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Certificate No: EX3-3770_Apr11

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Glossary:

TSL	tissue simulating liquid
NORM _{x,y,z}	sensitivity in free space
ConvF	sensitivity in TSL / NORM _{x,y,z}
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C	modulation dependent linearization parameters
Polarization φ	φ rotation around probe axis
Polarization ϑ	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is normal to probe axis

Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2003, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", December 2003
- IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005

Methods Applied and Interpretation of Parameters:

- NORM_{x,y,z}**: Assessed for E-field polarization $\vartheta = 0$ ($f \leq 900$ MHz in TEM-cell; $f > 1800$ MHz: R22 waveguide). NORM_{x,y,z} are only intermediate values, i.e., the uncertainties of NORM_{x,y,z} does not affect the E²-field uncertainty inside TSL (see below ConvF).
- NORM(f)_{x,y,z}** = NORM_{x,y,z} * frequency_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCP_{x,y,z}**: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR**: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- A_{x,y,z}; B_{x,y,z}; C_{x,y,z}** are numerical linearization parameters in dB assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media.
- VR**: VR is the validity range of the calibration related to the average diode voltage or DAE voltage in mV.
- ConvF and Boundary Effect Parameters**: Assessed in flat phantom using E-field (or Temperature Transfer Standard for $f \leq 800$ MHz) and inside waveguide using analytical field distributions based on power measurements for $f > 800$ MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORM_{x,y,z} * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- Spherical isotropy (3D deviation from isotropy)**: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset**: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.

Certificate No: EX3-3770_Apr11

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EX3DV4 – SN:3770

April 19, 2011

Probe EX3DV4

SN:3770

Manufactured: July 6, 2010
Calibrated: April 19, 2011Calibrated for DASY/EASY Systems
(Note: non-compatible with DASY2 system!)

Certificate No: EX3-3770_Apr11

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EX3DV4- SN:3770

April 19, 2011

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3770

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ($\mu\text{V}/(\text{V}/\text{m})^2$) ^A	0.32	0.62	0.40	$\pm 10.1 \%$
DCP (mV) ^B	106.6	98.3	102.8	

Modulation Calibration Parameters

UID	Communication System Name	PAR		A dB	B dB	C dB	VR mV	Unc ^E (k=2)
10000	CW	0.00	X	0.00	0.00	1.00	120.8	$\pm 2.7 \%$
			Y	0.00	0.00	1.00	134.3	
			Z	0.00	0.00	1.00	133.5	

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

^A The uncertainties of NormX,Y,Z do not affect the E²-field uncertainty inside TSL (see Pages 5 and 6).

^B Numerical linearization parameter; uncertainty not required.

^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

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EX3DV4- SN:3770

April 19, 2011

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3770**Calibration Parameter Determined in Head Tissue Simulating Media**

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha	Depth (mm)	Unct. (k=2)
750	41.9	0.89	9.58	9.58	9.58	0.80	0.70	± 12.0 %
835	41.5	0.90	9.25	9.25	9.25	0.80	0.67	± 12.0 %
900	41.5	0.97	9.06	9.06	9.06	0.76	0.71	± 12.0 %
1750	40.1	1.37	7.97	7.97	7.97	0.80	0.61	± 12.0 %
1900	40.0	1.40	7.78	7.78	7.78	0.71	0.62	± 12.0 %
2000	40.0	1.40	7.79	7.79	7.79	0.75	0.58	± 12.0 %
2450	39.2	1.80	6.99	6.99	6.99	0.80	0.56	± 12.0 %
2600	39.0	1.96	6.95	6.95	6.95	0.66	0.62	± 12.0 %

^C Frequency validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

^F At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

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EX3DV4- SN:3770

April 19, 2011

DASY/EASY - Parameters of Probe: EX3DV4- SN:3770**Calibration Parameter Determined in Body Tissue Simulating Media**

f (MHz) ^c	Relative Permittivity ^f	Conductivity (S/m) ^f	ConvF X	ConvF Y	ConvF Z	Alpha	Depth (mm)	Unct. (k=2)
750	55.5	0.96	9.42	9.42	9.42	0.73	0.72	± 12.0 %
835	55.2	0.97	9.30	9.30	9.30	0.72	0.72	± 12.0 %
900	55.0	1.05	9.12	9.12	9.12	0.73	0.75	± 12.0 %
1750	53.4	1.49	7.84	7.84	7.84	0.80	0.68	± 12.0 %
1900	53.3	1.52	7.51	7.51	7.51	0.80	0.62	± 12.0 %
2000	53.3	1.52	7.44	7.44	7.44	0.80	0.66	± 12.0 %
2450	52.7	1.95	6.96	6.96	6.96	0.80	0.50	± 12.0 %
2600	52.5	2.16	6.78	6.78	6.78	0.80	0.50	± 12.0 %
5200	49.0	5.30	4.42	4.42	4.42	0.50	1.90	± 13.1 %
5300	48.9	5.42	4.12	4.12	4.12	0.52	1.90	± 13.1 %
5600	48.5	5.77	3.54	3.54	3.54	0.60	1.90	± 13.1 %
5800	48.2	6.00	3.80	3.80	3.80	0.60	1.90	± 13.1 %

^c Frequency validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

^f At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

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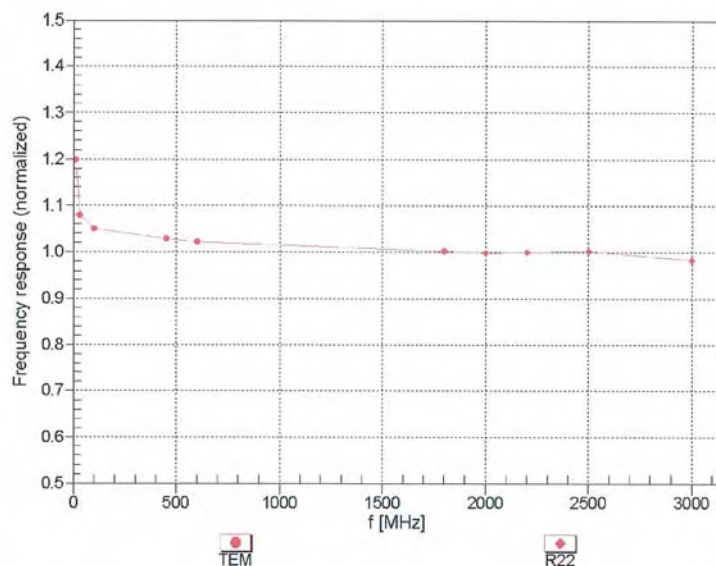
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EX3DV4- SN:3770

April 19, 2011

Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)



Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ ($k=2$)

Certificate No: EX3-3770_Apr11

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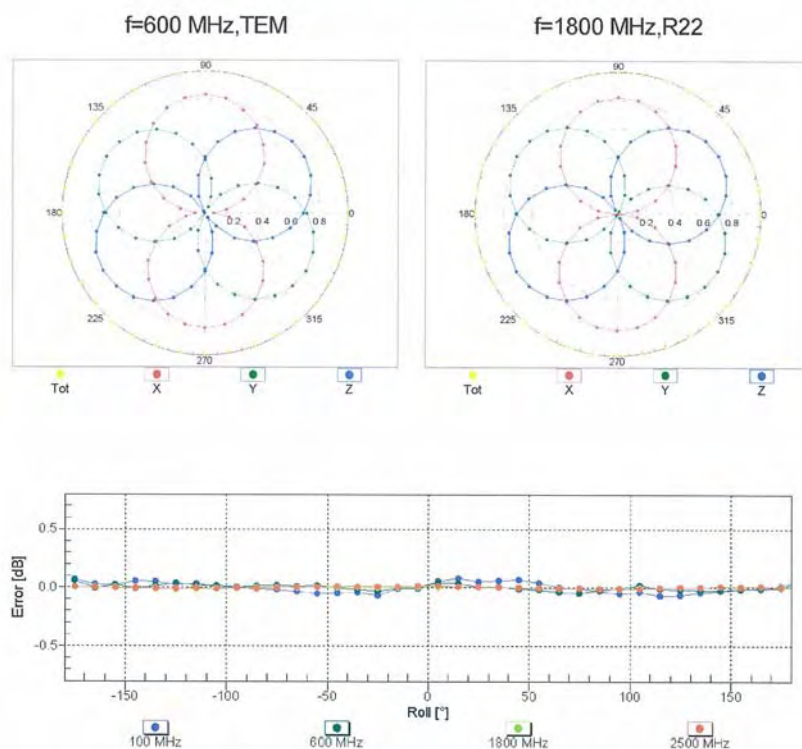
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EX3DV4- SN:3770

April 19, 2011

Receiving Pattern (ϕ), $\theta = 0^\circ$



Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)

Certificate No: EX3-3770_Apr11

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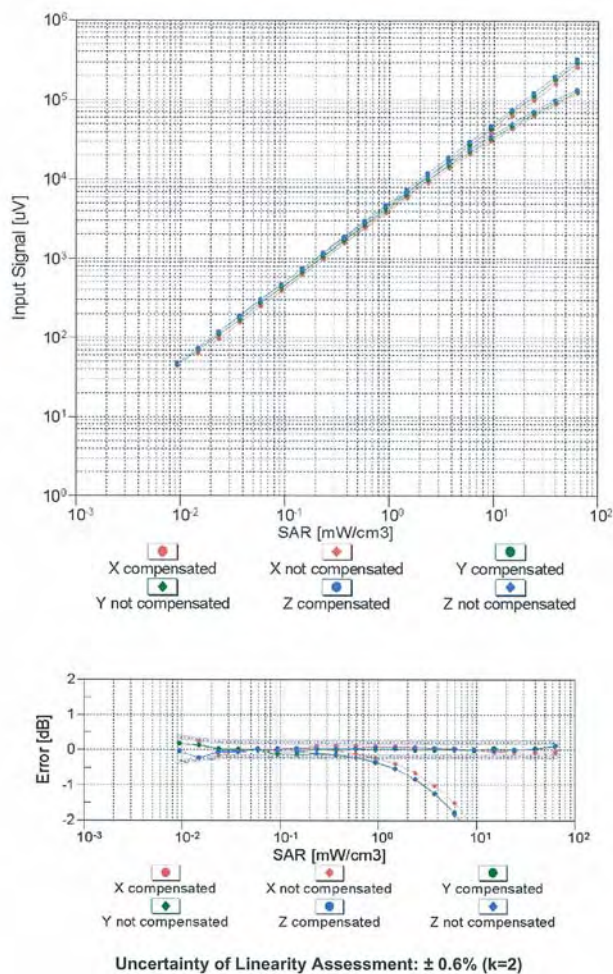
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EX3DV4- SN:3770

April 19, 2011

Dynamic Range f(SAR_{head}) (TEM cell , f = 900 MHz)



Certificate No: EX3-3770_Apr11

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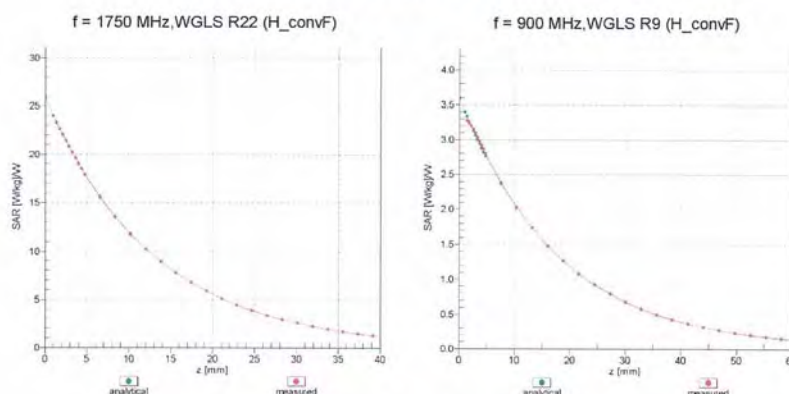
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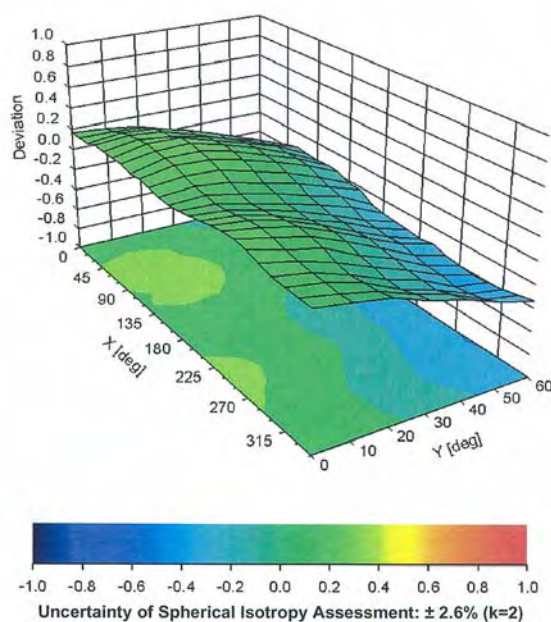
EX3DV4- SN:3770

April 19, 2011

Conversion Factor Assessment



Deviation from Isotropy in Liquid Error (ϕ, θ), $f = 900 \text{ MHz}$



Certificate No: EX3-3770_Apr11

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EX3DV4- SN:3770

April 19, 2011

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3770

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	Not applicable
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	2 mm

Certificate No: EX3-3770_Apr11

Page 11 of 11

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Calibration Laboratory of
Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland



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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 108

Client **Audon**

Certificate No. **ES3-3071_Jun11**

CALIBRATION CERTIFICATE

Object: **ES3DV3 - SN:3071**

Calibration procedure(s): **QA-CAL-01-v8, QA-CAL-23-v4, QA-CAL-25-v4
Calibration procedure for dosimetric E-field probes**

Calibration date: **June 22, 2011**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	31-Mar-11 (No. 217-01372)	Apr-12
Power sensor E4412A	MY41498087	31-Mar-11 (No. 217-01372)	Apr-12
Reference 3 dB Attenuator	SN: S5054 (3c)	29-Mar-11 (No. 217-01369)	Apr-12
Reference 20 dB Attenuator	SN: S5086 (20b)	29-Mar-11 (No. 217-01367)	Apr-12
Reference 30 dB Attenuator	SN: S5129 (30b)	29-Mar-11 (No. 217-01370)	Apr-12
Reference Probe ES3DV2	SN: 3013	29-Dec-10 (No. ES3-3013_Dec10)	Dec-11
DAE4	SN: 654	3-May-11 (No. DAE4-654_May11)	May-12
Secondary Standards	ID	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (in house check Oct-09)	In house check: Oct-11
Network Analyzer HP 8753E	US37390585	18-Oct-01 (in house check Oct-10)	In house check: Oct-11

Calibrated by: **Name: Edon Kastrali, Function: Laboratory Technician, Signature: [Signature]**

Approved by: **Name: Katia Pokovic, Function: Technical Manager, Signature: [Signature]**

Issued: June 23, 2011

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: ES3-3071_Jun11

Page 1 of 11

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Accreditation No.: SCS 108

Glossary:

TSL	tissue simulating liquid
NORM _{x,y,z}	sensitivity in free space
ConvF	sensitivity in TSL / NORM _{x,y,z}
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C	modulation dependent linearization parameters
Polarization ϕ	ϕ rotation around probe axis
Polarization ϑ	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is normal to probe axis

Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2003, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", December 2003
- IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005

Methods Applied and Interpretation of Parameters:

- NORM_{x,y,z}**: Assessed for E-field polarization $\vartheta = 0$ ($f \leq 900$ MHz in TEM-cell; $f > 1800$ MHz: R22 waveguide). NORM_{x,y,z} are only intermediate values, i.e., the uncertainties of NORM_{x,y,z} does not affect the E^2 -field uncertainty inside TSL (see below ConvF).
- NORM(f)_{x,y,z} = NORM_{x,y,z} * frequency_response** (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCP_{x,y,z}**: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR**: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- A_{x,y,z}; B_{x,y,z}; C_{x,y,z}; VR_{x,y,z}**: A, B, C are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters**: Assessed in flat phantom using E-field (or Temperature Transfer Standard for $f \leq 800$ MHz) and inside waveguide using analytical field distributions based on power measurements for $f > 800$ MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORM_{x,y,z} * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- Spherical isotropy (3D deviation from isotropy)**: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset**: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.

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ES3DV3 – SN:3071

June 22, 2011

Probe ES3DV3

SN:3071

Manufactured: December 14, 2004
Calibrated: June 22, 2011Calibrated for DASY/EASY Systems
(Note: non-compatible with DASY2 system!)

Certificate No: ES3-3071_Jun11

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ES3DV3- SN:3071

June 22, 2011

DASY/EASY - Parameters of Probe: ES3DV3 - SN:3071**Basic Calibration Parameters**

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ($\mu\text{V}/(\text{V}/\text{m})^2$) ^A	1.12	1.21	0.96	$\pm 10.1\%$
DCP (mV) ^B	101.2	101.2	97.4	

Modulation Calibration Parameters

UID	Communication System Name	PAR		A dB	B dB	C dB	VR mV	Unc ^E (k=2)
10000	CW	0.00	X	0.00	0.00	1.00	102.4	$\pm 3.0\%$
			Y	0.00	0.00	1.00	110.9	
			Z	0.00	0.00	1.00	130.0	

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.

^A The uncertainties of NormX,Y,Z do not affect the E^2 -field uncertainty inside TSL (see Pages 5 and 6).

^B Numerical linearization parameter: uncertainty not required.

^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

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ES3DV3- SN:3071

June 22, 2011

DASY/EASY - Parameters of Probe: ES3DV3 - SN:3071**Calibration Parameter Determined in Head Tissue Simulating Media**

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha	Depth (mm)	Unct. (k=2)
750	41.9	0.89	6.00	6.00	6.00	0.90	1.10	± 12.0 %
835	41.5	0.90	5.78	5.78	5.78	0.90	1.10	± 12.0 %
900	41.5	0.97	5.67	5.67	5.67	0.90	1.10	± 12.0 %
1450	40.5	1.20	5.22	5.22	5.22	0.83	1.23	± 12.0 %
1750	40.1	1.37	5.03	5.03	5.03	0.90	1.15	± 12.0 %
1900	40.0	1.40	4.83	4.83	4.83	0.86	1.19	± 12.0 %
2000	40.0	1.40	4.80	4.80	4.80	0.89	1.14	± 12.0 %
2450	39.2	1.80	4.19	4.19	4.19	0.74	1.29	± 12.0 %

^C Frequency validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

^F At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

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ES3DV3- SN:3071

June 22, 2011

DASY/EASY - Parameters of Probe: ES3DV3- SN:3071**Calibration Parameter Determined in Body Tissue Simulating Media**

f (MHz) ^c	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha	Depth (mm)	Unct. (k=2)
750	55.5	0.96	5.78	5.78	5.78	0.80	1.20	± 12.0 %
835	55.2	0.97	5.68	5.68	5.68	0.80	1.20	± 12.0 %
900	55.0	1.05	5.63	5.63	5.63	0.90	1.10	± 12.0 %
1450	54.0	1.30	5.22	5.22	5.22	1.00	1.21	± 12.0 %
1750	53.4	1.49	4.66	4.66	4.66	0.72	1.43	± 12.0 %
1900	53.3	1.52	4.32	4.32	4.32	0.72	1.37	± 12.0 %
2000	53.3	1.52	4.29	4.29	4.29	0.74	1.30	± 12.0 %
2450	52.7	1.95	3.89	3.89	3.89	0.75	1.22	± 12.0 %

^c Frequency validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

^F At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

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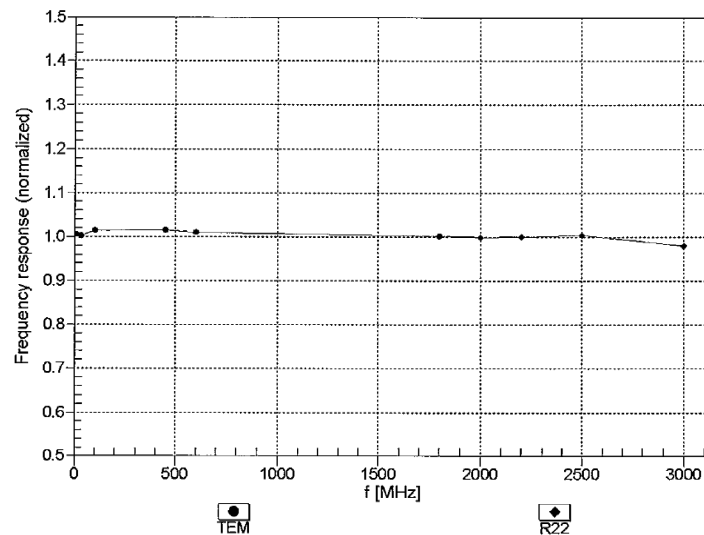
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ES3DV3- SN:3071

June 22, 2011

Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)



Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ ($k=2$)

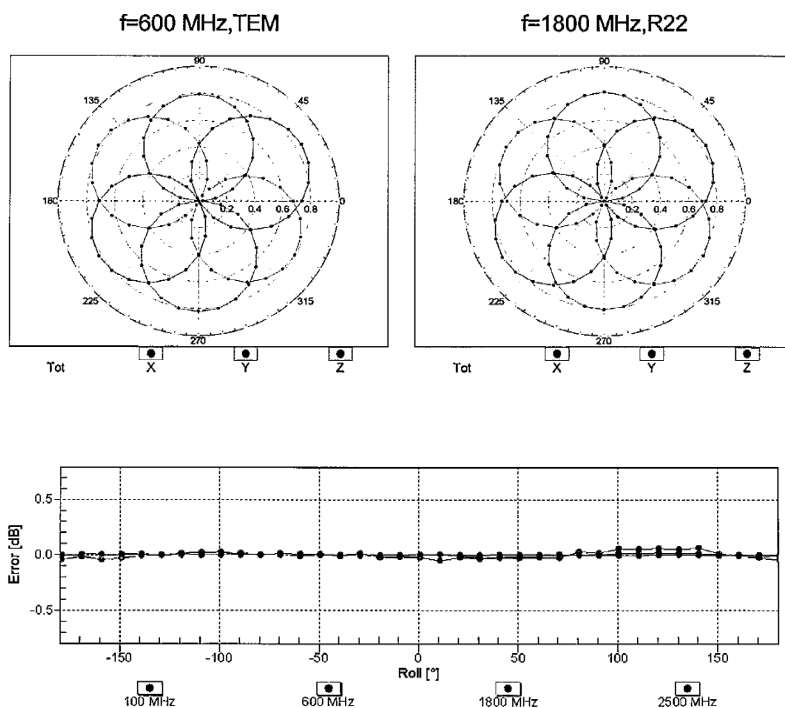
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ES3DV3- SN:3071

June 22, 2011

Receiving Pattern (ϕ), $\theta = 0^\circ$



Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)

Certificate No: ES3-3071_Jun11

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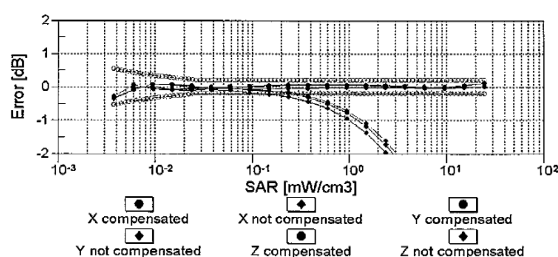
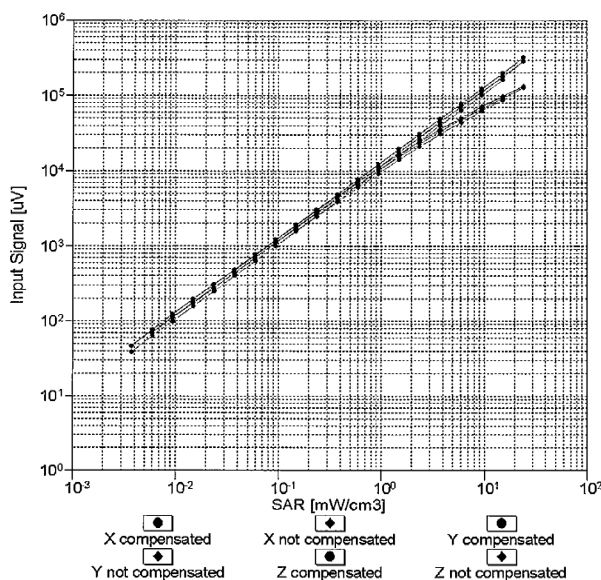
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ES3DV3- SN:3071

June 22, 2011

Dynamic Range f(SAR_{head}) (TEM cell , f = 900 MHz)



Uncertainty of Linearity Assessment: $\pm 0.6\%$ (k=2)

Certificate No: ES3-3071_Jun11

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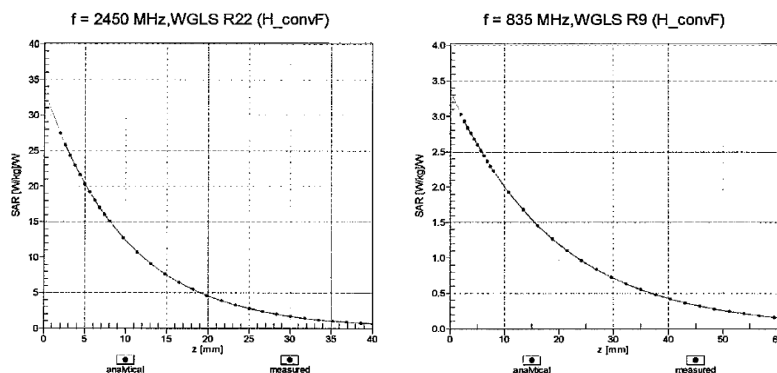
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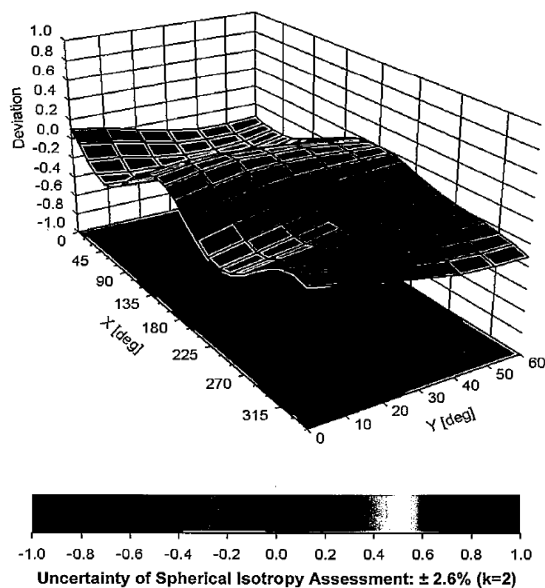
ES3DV3- SN:3071

June 22, 2011

Conversion Factor Assessment



Deviation from Isotropy in Liquid Error (ϕ , θ), $f = 900 \text{ MHz}$



Certificate No: ES3-3071_Jun11

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ES3DV3- SN:3071

June 22, 2011

DASY/EASY - Parameters of Probe: ES3DV3 - SN:3071**Other Probe Parameters**

Sensor Arrangement	Triangular
Connector Angle (°)	Not applicable
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	10 mm
Tip Diameter	4 mm
Probe Tip to Sensor X Calibration Point	2 mm
Probe Tip to Sensor Y Calibration Point	2 mm
Probe Tip to Sensor Z Calibration Point	2 mm
Recommended Measurement Distance from Surface	3 mm

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7. Uncertainty Budget

DASY4 Uncertainty Budget According to IEEE P1528 [1]								
Error Description	Uncertainty value	Prob. Dist.	Div.	(c_i) 1g	(c_i) 10g	Std. Unc. (1g)	Std. Unc. (10g)	(v_i) v_{eff}
Measurement System								
Probe Calibration	±4.8 %	N	1	1	1	±4.8 %	±4.8 %	∞
Axial Isotropy	±4.7 %	R	$\sqrt{3}$	0.7	0.7	±1.9 %	±1.9 %	∞
Hemispherical Isotropy	±9.6 %	R	$\sqrt{3}$	0.7	0.7	±3.9 %	±3.9 %	∞
Boundary Effects	±1.0 %	R	$\sqrt{3}$	1	1	±0.6 %	±0.6 %	∞
Linearity	±4.7 %	R	$\sqrt{3}$	1	1	±2.7 %	±2.7 %	∞
System Detection Limits	±1.0 %	R	$\sqrt{3}$	1	1	±0.6 %	±0.6 %	∞
Readout Electronics	±1.0 %	N	1	1	1	±1.0 %	±1.0 %	∞
Response Time	±0.8 %	R	$\sqrt{3}$	1	1	±0.5 %	±0.5 %	∞
Integration Time	±2.6 %	R	$\sqrt{3}$	1	1	±1.5 %	±1.5 %	∞
RF Ambient Conditions	±3.0 %	R	$\sqrt{3}$	1	1	±1.7 %	±1.7 %	∞
Probe Positioner	±0.4 %	R	$\sqrt{3}$	1	1	±0.2 %	±0.2 %	∞
Probe Positioning	±2.9 %	R	$\sqrt{3}$	1	1	±1.7 %	±1.7 %	∞
Max. SAR Eval.	±1.0 %	R	$\sqrt{3}$	1	1	±0.6 %	±0.6 %	∞
Test Sample Related								
Device Positioning	±2.9 %	N	1	1	1	±2.9 %	±2.9 %	875
Device Holder	±3.6 %	N	1	1	1	±3.6 %	±3.6 %	5
Power Drift	±5.0 %	R	$\sqrt{3}$	1	1	±2.9 %	±2.9 %	∞
Phantom and Setup								
Phantom Uncertainty	±4.0 %	R	$\sqrt{3}$	1	1	±2.3 %	±2.3 %	∞
Liquid Conductivity (target)	±5.0 %	R	$\sqrt{3}$	0.64	0.43	±1.8 %	±1.2 %	∞
Liquid Conductivity (meas.)	±2.5 %	N	1	0.64	0.43	±1.6 %	±1.1 %	∞
Liquid Permittivity (target)	±5.0 %	R	$\sqrt{3}$	0.6	0.49	±1.7 %	±1.4 %	∞
Liquid Permittivity (meas.)	±2.5 %	N	1	0.6	0.49	±1.5 %	±1.2 %	∞
Combined Std. Uncertainty						±10.3 %	±10.0 %	331
Expanded STD Uncertainty						±20.6 %	±20.1 %	

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8. Phantom description

Schmid & Partner Engineering AG

s p e a g

Zeughausstrasse 43, 8004 Zurich, Switzerland
Phone +41 1 245 9700, Fax +41 1 245 9779
info@speag.com, http://www.speag.com

Certificate of Conformity / First Article Inspection

Item	SAM Twin Phantom V4.0
Type No	QD 000 P40 C
Series No	TP-1150 and higher
Manufacturer	SPEAG Zeughausstrasse 43 CH-8004 Zurich Switzerland

Tests

The series production process used allows the limitation to test of first articles.
Complete tests were made on the pre-series Type No. QD 000 P40 AA, Serial No. TP-1001 and on the series first article Type No. QD 000 P40 BA, Serial No. TP-1006. Certain parameters have been retested using further series items (called samples) or are tested at each item.

Test	Requirement	Details	Units tested
Dimensions	Compliant with the geometry according to the CAD model.	IT'IS CAD File (*)	First article, Samples
Material thickness of shell	Compliant with the requirements according to the standards	2mm +/- 0.2mm in flat and specific areas of head section	First article, Samples, TP-1314 ff.
Material thickness at ERP	Compliant with the requirements according to the standards	6mm +/- 0.2mm at ERP	First article, All items
Material parameters	Dielectric parameters for required frequencies	300 MHz – 6 GHz: Relative permittivity < 5, Loss tangent < 0.05	Material samples
Material resistivity	The material has been tested to be compatible with the liquids defined in the standards if handled and cleaned according to the instructions. Observe technical Note for material compatibility.	DEGMBE based simulating liquids	Pre-series, First article, Material samples
Sagging	Compliant with the requirements according to the standards. Sagging of the flat section when filled with tissue simulating liquid.	< 1% typical < 0.8% if filled with 155mm of HSL900 and without DUT below	Prototypes, Sample testing

Standards

- [1] CENELEC EN 50361
- [2] IEEE Std 1528-2003
- [3] IEC 62209 Part I
- [4] FCC OET Bulletin 65, Supplement C, Edition 01-01

(*) The IT'IS CAD file is derived from [2] and is also within the tolerance requirements of the shapes of the other documents.

Conformity

Based on the sample tests above, we certify that this item is in compliance with the uncertainty requirements of SAR measurements specified in standards [1] to [4].

Date 07.07.2005

s p e a g

Signature / Stamp

Schmid & Partner Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland
Phone +41 1 245 9700, Fax +41 1 245 9779
info@speag.com, http://www.speag.com

Doc No. 881 – QD 000 P40 C – F

Page 1 (1)

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9. System Validation from Original equipment supplier

Calibration Laboratory of
Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland



S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
S Servizio svizzero di taratura
S Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 108

Client SGS-TW (Auden)

Certificate No: D835V2-4d063_May11

CALIBRATION CERTIFICATE

Object D835V2 - SN: 4d063

Calibration procedure(s) QA CAL-05.v8
Calibration procedure for dipole validation kits above 700 MHz

Calibration date: May 25, 2011

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter EPM-442A	GB37480704	06-Oct-10 (No. 217-01266)	Oct-11
Power sensor HP 8481A	US37292783	06-Oct-10 (No. 217-01266)	Oct-11
Reference 20 dB Attenuator	SN: S5086 (20b)	29-Mar-11 (No. 217-01367)	Apr-12
Type-N mismatch combination	SN: 5047.2 / 06327	29-Mar-11 (No. 217-01371)	Apr-12
Reference Probe ES3DV3	SN: 3205	29-Apr-11 (No. ES3-3205_Apr11)	Apr-12
DAE4	SN: 601	10-Jun-10 (No. DAE4-601_Jun10)	Jun-11
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power sensor HP 8481A	MY41092317	18-Oct-02 (in house check Oct-09)	In house check: Oct-11
RF generator R&S SMT-06	100005	4-Aug-99 (in house check Oct-09)	In house check: Oct-11
Network Analyzer HP 8753E	US37390585 S4206	18-Oct-01 (in house check Oct-10)	In house check: Oct-11

Calibrated by: Name Claudio Leubler Function Laboratory Technician

Approved by: Katja Pokovic Technical Manager

Issued: May 25, 2011

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: D835V2-4d063_May11

Page 1 of 8

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DASY5 Validation Report for Head TSL

Date: 25.05.2011

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN: 4d063

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

Medium: HSL900

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.88 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3205; ConvF(6.07, 6.07, 6.07); Calibrated: 29.04.2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 10.06.2010
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA; Serial: 1001
- Measurement SW: DASY52, V52.6.2 Build (424)
- Postprocessing SW: SEMCAD X, V14.4.4 Build (2829)

Dipole Calibration for Head Tissue/Pin=250 mW, d=15mm/Cube 0:

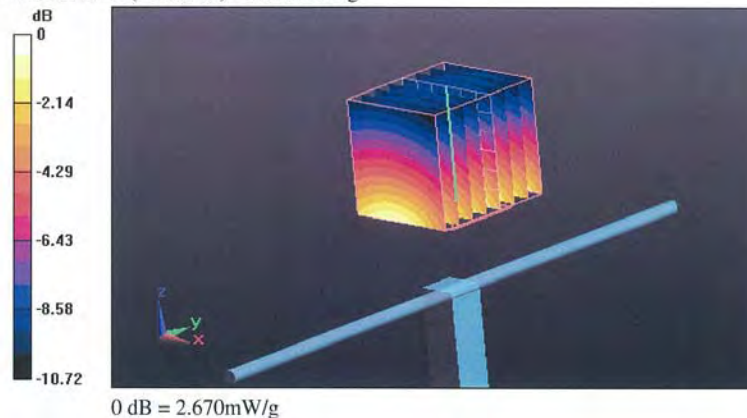
Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 56.554 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 3.427 W/kg

SAR(1 g) = 2.31 mW/g; SAR(10 g) = 1.52 mW/g

Maximum value of SAR (measured) = 2.669 mW/g



Certificate No: D835V2-4d063_May11

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DASY5 Validation Report for Body TSL

Date: 25.05.2011

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN: 4d063

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

Medium: MSL900

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 1 \text{ mho/m}$; $\epsilon_r = 53.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3205; ConvF(6.02, 6.02, 6.02); Calibrated: 29.04.2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 10.06.2010
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA; Serial: 1001
- Measurement SW: DASY52, V52.6.2 Build (424)
- Postprocessing SW: SEMCAD X, V14.4.4 Build (2829)

Dipole Calibration for Body Tissue/Pin=250 mW, d=15mm/Cube 0:

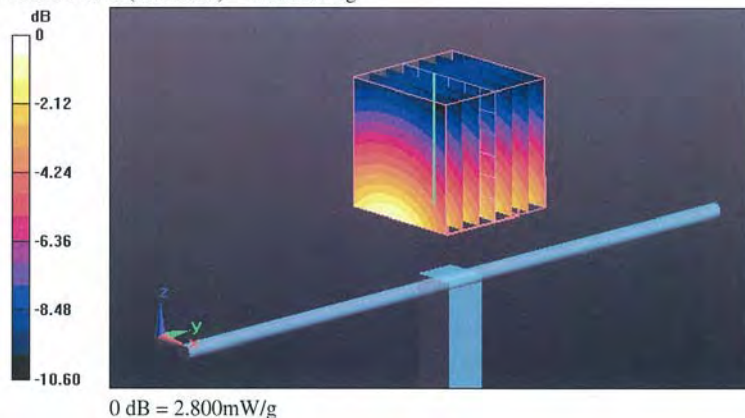
Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 54.297 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 3.530 W/kg

SAR(1 g) = 2.43 mW/g; SAR(10 g) = 1.6 mW/g

Maximum value of SAR (measured) = 2.804 mW/g



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Calibration Laboratory of
Schmid & Partner
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 Zeughausstrasse 43, 8004 Zurich, Switzerland



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Accredited by the Swiss Accreditation Service (SAS)

Accreditation No.: **SCS 108**

The Swiss Accreditation Service is one of the signatories to the EA
 Multilateral Agreement for the recognition of calibration certificates

Client **SGS TW (Auden)**

Certificate No: **D1900V2-5d027_Apr11**

CALIBRATION CERTIFICATE

Object **D1900V2 - SN: 5d027**

Calibration procedure(s) **QA CAL-05.v8**
 Calibration procedure for dipole validation kits

Calibration date: **April 19, 2011**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
 The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter EPM-442A	GB37480704	06-Oct-10 (No. 217-01266)	Oct-11
Power sensor HP 8481A	US37292783	06-Oct-10 (No. 217-01266)	Oct-11
Reference 20 dB Attenuator	SN: 5086 (20g)	29-Mar-11 (No. 217-01368)	Apr-12
Type-N mismatch combination	SN: 5047.2 / 06327	29-Mar-11 (No. 217-01371)	Apr-12
Reference Probe ES3DV3	SN: 3205	30-Apr-10 (No. ES3-3205_Apr10)	Apr-11
DAE4	SN: 601	10-Jun-10 (No. DAE4-601_Jun10)	Jun-11

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power sensor HP 8481A	MY41092317	18-Oct-02 (in house check Oct-09)	In house check: Oct-11
RF generator R&S SMT-06	100005	4-Aug-99 (in house check Oct-09)	In house check: Oct-11
Network Analyzer HP 8753E	US37390585 S4206	18-Oct-01 (in house check Oct-10)	In house check: Oct-11

Calibrated by: **Name** Claudio Leubler **Function** Laboratory Technician **Signature**

Approved by: **Name** Katja Pokovic **Function** Technical Manager **Signature**

Issued: April 19, 2011

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: D1900V2-5d027_Apr11

Page 1 of 9

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DASY5 Validation Report for Head TSL

Date/Time: 18.04.2011 15:27:22

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d027

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

Medium: HSL U12 BB

Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 39$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3205; ConvF(5.09, 5.09, 5.09); Calibrated: 30.04.2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 10.06.2010
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- Measurement SW: DASY52, V52.6.2 Build (424)
- Postprocessing SW: SEMCAD X, V14.4.2 Build (2829)

Pin=250 mW, Cube 0:

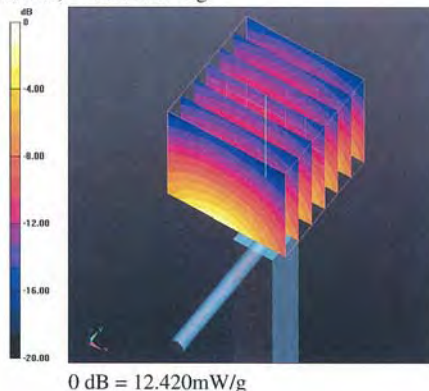
Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 97.235 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 18.650 W/kg

SAR(1 g) = 10.1 mW/g; SAR(10 g) = 5.26 mW/g

Maximum value of SAR (measured) = 12.424 mW/g



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DASY5 Validation Report for Body TSL

Date/Time: 19.04.2011 12:53:51

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d027

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

Medium: MSL U12 BB

Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_r = 51.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3205; ConvF(4.59, 4.59, 4.59); Calibrated: 30.04.2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 10.06.2010
- Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; Serial: 1002
- Measurement SW: DASY52, V52.6.2 Build (424)
- Postprocessing SW: SEMCAD X, V14.4.2 Build (2829)

Pin=250 mW, Cube 0:

Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 96.170 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 17.156 W/kg

SAR(1 g) = 9.93 mW/g; SAR(10 g) = 5.18 mW/g

Maximum value of SAR (measured) = 12.615 mW/g



0 dB = 12.610mW/g

Certificate No: D1900V2-5d027_Apr11

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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

Client **SGS TW (Auden)**

Certificate No: **D2450V2- 727_Apr11**

CALIBRATION CERTIFICATE

Object **D2450V2 - SN: 727**

Calibration procedure(s) **QA CAL-05.v8**
Calibration procedure for dipole validation kits

Calibration date: **April 19, 2011**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter EPM-442A	GB37480704	06-Oct-10 (No. 217-01266)	Oct-11
Power sensor HP 8481A	US37292783	06-Oct-10 (No. 217-01266)	Oct-11
Reference 20 dB Attenuator	SN: 5086 (20g)	29-Mar-11 (No. 217-01368)	Apr-12
Type-N mismatch combination	SN: 5047.2 / 06327	29-Mar-11 (No. 217-01371)	Apr-12
Reference Probe ES3DV3	SN: 3205	30-Apr-10 (No. ES3-3205_Apr10)	Apr-11
DAE4	SN: 601	10-Jun-10 (No. DAE4-601_Jun10)	Jun-11

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power sensor HP 8481A	MY41092317	18-Oct-02 (in house check Oct-09)	In house check: Oct-11
RF generator R&S SMT-06	100005	4-Aug-99 (in house check Oct-09)	In house check: Oct-11
Network Analyzer HP 8753E	US37390585 S4206	18-Oct-01 (in house check Oct-10)	In house check: Oct-11

Calibrated by: **Claudio Leubler** **Laboratory Technician**

Approved by: **Katja Pokovic** **Technical Manager**

Issued: April 19, 2011

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Certificate No: D2450V2-727_Apr11

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DASY5 Validation Report for Head TSL

Date/Time: 18.04.2011 16:55:19

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:727

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

Medium: HSL U12 BB

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.74$ mho/m; $\epsilon_r = 38.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3205; ConvF(4.53, 4.53, 4.53); Calibrated: 30.04.2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 10.06.2010
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- Measurement SW: DASY52, V52.6.2 Build (424)
- Postprocessing SW: SEMCAD X, V14.4.2 Build (2829)

Pin=250 mW, Cube 0:

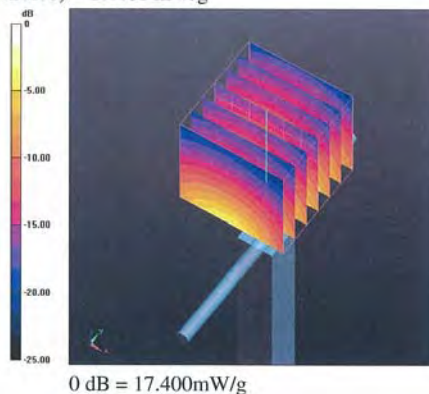
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 103.6 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 27.919 W/kg

SAR(1 g) = 13.7 mW/g; SAR(10 g) = 6.39 mW/g

Maximum value of SAR (measured) = 17.401 mW/g



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DASY5 Validation Report for Body TSL

Date/Time: 19.04.2011 14:37:11

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:727

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

Medium: MSL U12 BB

Medium parameters used: $f = 2450 \text{ MHz}$; $\sigma = 1.91 \text{ mho/m}$; $\epsilon_r = 50.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3205; ConvF(4.31, 4.31, 4.31); Calibrated: 30.04.2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 10.06.2010
- Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; Serial: 1002
- Measurement SW: DASY52, V52.6.2 Build (424)
- Postprocessing SW: SEMCAD X, V14.4.2 Build (2829)

Pin=250 mW, Cube 0:

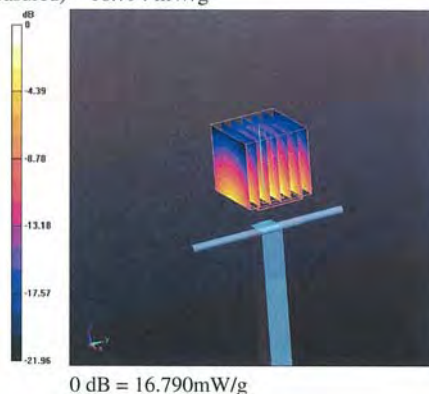
Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 96.949 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 26.888 W/kg

SAR(1 g) = 12.7 mW/g; SAR(10 g) = 5.84 mW/g

Maximum value of SAR (measured) = 16.794 mW/g



End of 1st part of report

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