

SAR TEST REPORT

Equipment Under Test	Pocket PC Phone
Model Name	HERO130
Company Name	HTC Corporation
Company Address	No.23, Xinghua Rd., Taoyuan City, Taoyuan County 330, Taiwan, R.O.C.
Date of Receipt	2009.04.28
Date of Test(s)	2009.05.06~05.09-2009.05.30~06.01 2009.06.02~06.03
Date of Issue	2009.06.17

Standards:

**FCC OET Bulletin 65 supplement C,
ANSI/IEEE C95.1, C95.3, IEEE 1528
RSS-102:1999**

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

Remarks:

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

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Tested by : Antony Wu Date : 2009.06.17
Engineer

Approved by : Robert Chang Date : 2009.06.17
Tech Manager

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1. General Information

1.1 Testing Laboratory

SGS Taiwan Ltd. Electronics & Communication Laboratory	
134, Wu Kung Road, Wuku industrial zone	
Taipei county, Taiwan, R.O.C.	
Telephone	+886-2-2299-3279
Fax	+886-2-2298-0488
Internet	http://www.tw.sgs.com/

1.2 Details of Applicant

Company Name	HTC Corporation
Company Address	No.23, Xinghua Rd., Taoyuan City, Taoyuan County 330, Taiwan, R.O.C.
Contact Person	Cherry_Lee@htc.com
TEL	+886-3-375-3252
Fax	+886-3-375-5530
E-mail	Cherry_Lee@htc.com

1.3 Description of EUT

EUT Name	Pocket PC Phone
FCC ID	NM8HOT
IC ID	4115B-HOT
Model Name	HERO130
Brand Name	HTC

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IMEI Code	Original solution : 353994030010799			
	Second solution : 353994030011680			
	Third solution : 353994030010351			
	Fourth solution : 353994030010898			
	Fifth solution : 353994030010596			
	Sixth solution : 353994030010810			
	Seventh solution : 353994030010844			
	Eighth solution : 353994030010539			
Mode of Operation	GSM /GPRS/EDGE/WCDMA/HSDPA/HSUPA band			
Definition	Production unit			
Modulation Mode	GSM/GMSK/8PSK/QPSK/16QAM			
Duty Cycle	GSM	GPRS (2multi-slot)	WCDMA B2	WCDMA B5
	1/8	1/4	1	1
Maximum RF Conducted Power (Average)	GSM 850	GSM1900	WCDMA B2	WCDMA B5
	32.64 dbm	29.19 dbm	22.82 dbm	23.08 dbm
TX Frequency Range (MHz)	GSM 850	GSM1900	WCDMA B2	WCDMA B5
	824.2- 848.8	1850.2- 1909.8	1852.4- 1907.6	826.4- 846.6
Channel Number (ARFCN)	GSM 850	GSM1900	WCDMA B2	WCDMA B5
	128-251	512-810	9262-9538	4132-4233
Battery Type	3.7 V Lithium-Ion			
Antenna Type	Internal Antenna			
Declaration	Second solution(change Camera)			
	<p>Besides the original configuration, this model HERO130 also changed another Camera component as second solution. In order to find SAR value whether the same between original and second solution, we used spot-check method to check it. The result of GSM850/1900/WCDMA B2/WCDMA B5/WALN 802.11 b/g are within 20% deviation.</p>			

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Declaration	Third solution(change Camera)
	Besides the original configuration, this model HERO130 also changed another Camera component as Third solution. In order to find SAR value whether the same between original and Third solution, we used spot-check method to check it. The result of GSM850/ 1900/WCDMA B2/WCDMA B5/WALN 802.11 b/g are within 20% deviation.
	Fourth solution(change Camera)
	Besides the original configuration, this model HERO130 also changed another Camera component as Fourth solution. In order to find SAR value whether the same between original and Fourth solution, we used spot-check method to check it. The result of GSM850/ 1900/WCDMA B2/WCDMA B5/WALN 802.11 b/g are within 20% deviation.
	Fifth solution(change LCM & Camera)
	Besides the original configuration, this model HERO130 also changed another Camera component as Fifth solution. In order to find SAR value whether the same between original and Fifth solution, we used spot-check method to check it. The result of GSM850/ 1900/WCDMA B2/WCDMA B5/WALN 802.11 b/g are within 20% deviation.

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Declaration	Sixth solution(change LCM & Camera)
	Besides the original configuration, this model HERO130 also changed another Camera component as Sixth solution. In order to find SAR value whether the same between original and Sixth solution, we used spot-check method to check it. The result of GSM850/ 1900/WCDMA B2/WCDMA B5/WALN 802.11 b/g are within 20% deviation.
	Seventh solution(change LCM & Camera)
	Besides the original configuration, this model HERO130 also changed another Camera component as Seventh solution. In order to find SAR value whether the same between original and Seventh solution, we used spot-check method to check it. The result of GSM850/ 1900/WCDMA B2/WCDMA B5/WALN 802.11 b/g are within 20% deviation.
	Eighth solution(change LCM & Camera)
	Besides the original configuration, this model HERO130 also changed another Camera component as Eighth solution. In order to find SAR value whether the same between original and Eighth solution, we used spot-check method to check it. The result of GSM850/ 1900/WCDMA B2/WCDMA B5/WALN 802.11 b/g are within 20% deviation.

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Max. SAR Measured (1 g)	Original solution	
	Head	Body
	1.57 mW/g (At WCDMA B2 Left Head (Cheek Position)_ 9538 channel_repeated with Memory card	1.11 mW/g (At GSM 850 Body _ 251 channe)
	Second solution	
	Head	Body
	1.52 mW/g (At WCDMA B2 Left Head (Cheek Position)_ 9538 channel_repeated with Memory card	0.985 mW/g (At GSM 850 Body _ 251 channel)
	Third solution	
	Head	Body
	1.53 mW/g (At WCDMA B2 Left Head (Cheek Position)_ 9538 channel_repeated with Memory card	0.898 mW/g (At GSM 850 Body _ 251 channel)
	Fourth solution	
	Head	Body
	1.5 mW/g (At WCDMA B2 Left Head (Cheek Position)_ 9538 channel_repeated with Memory card	0.946 mW/g (At GSM 850 Body _ 251 channel)
	Fifth solution	
	Head	Body
	1.49 mW/g (At WCDMA B2 Left Head (Cheek Position)_ 9538 channel_repeated with Memory card	0.905 mW/g (At GSM 850 Body _ 251 channe)

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Max. SAR Measured (1 g)	Sixth solution	
	Head	Body
	1.55 mW/g (At WCDMA B2 Left Head (Cheek Position)_ 9538 channel_repeated with Memory card	1.05 mW/g (At GSM 850 Body _ 251 channel)
	Seventh solution	
	Head	Body
	1.5 mW/g (At WCDMA B2 Left Head (Cheek Position)_ 9538 channel_repeated with Memory card	1.09 mW/g (At GSM 850 Body _ 251 channel)
	Eighth solution	
	Head	Body
	1.56 mW/g (At WCDMA B2 Left Head (Cheek Position)_ 9538 channel_repeated with Memory card	1.2 mW/g (At GSM 850 Body _ 251 channel)

Note:

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

Mode	Sub-test	Band	WCDMA B2		
		Channel	9262	9400	9538
HSDPA	1	β_c/β_d (2/15)	22.57	22.77	22.56
	2	β_c/β_d (12/15)	22.43	22.45	22.41
	3	β_c/β_d (15/8)	21.95	21.93	21.92
	4	β_c/β_d (15/4)	21.89	21.92	21.87

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Mode	Sub-test	Band	WCDMA B2		
		Channel	9262	9400	9538
HSUPA	1	$\beta_c/\beta_d(11/15)$	22.54	22.61	22.51
	2	$\beta_c/\beta_d(6/15)$	20.88	20.91	20.83
	3	$\beta_c/\beta_d(15/9)$	21.67	21.72	21.63
	4	$\beta_c/\beta_d(2/15)$	20.82	20.85	20.78
	5	$\beta_c/\beta_d(15/15)$	22.24	22.31	22.22

Mode	Sub-test	Band	WCDMA B5		
		Channel	4132	4183	4233
HSDPA	1	$\beta_c/\beta_d(2/15)$	23.01	23.04	23.02
	2	$\beta_c/\beta_d(12/15)$	29.97	23.01	29.96
	3	$\beta_c/\beta_d(15/8)$	29.47	29.52	29.48
	4	$\beta_c/\beta_d(15/4)$	29.48	29.50	29.46

Mode	Sub-test	Band	WCDMA B5		
		Channel	4132	4183	4233
HSUPA	1	$\beta_c/\beta_d(11/15)$	22.97	23.05	23.01
	2	$\beta_c/\beta_d(6/15)$	21.35	21.4	21.39
	3	$\beta_c/\beta_d(15/9)$	22.13	22.19	22.13
	4	$\beta_c/\beta_d(2/15)$	21.23	21.19	21.23
	5	$\beta_c/\beta_d(15/15)$	22.63	22.79	22.67

1.4 Test Environment

Ambient Temperature: 22±2° C

Tissue Simulating Liquid: 22±2° C

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1.5 Operation description

General:

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

Additional configuration(Head):

7. For highest SAR configuration in this band repeated with external Memory card inside.
8. For highest SAR configuration in this band repeated with HTE Battery.
9. For highest SAR configuration in this band repeated with Formosa Battery.

Additional configuration(Body):

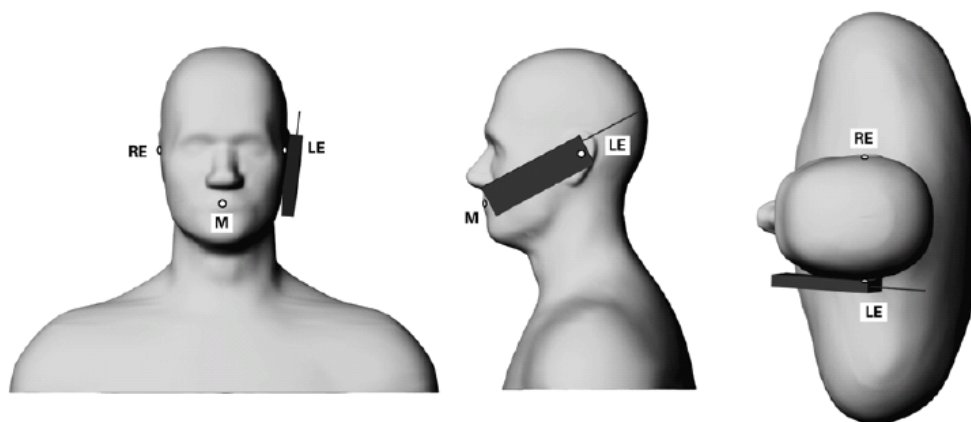
10. Testing body-worn SAR with Handset and with Bluetooth transmitter OFF by separating 1.5cm between the front of the EUT and the flat phantom in GPRS mode.
11. For highest SAR configuration in this band repeated with external Memory card inside.
12. For highest SAR configuration in this band repeated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

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SAR evaluation considerations for handsets with multiple transmitters:

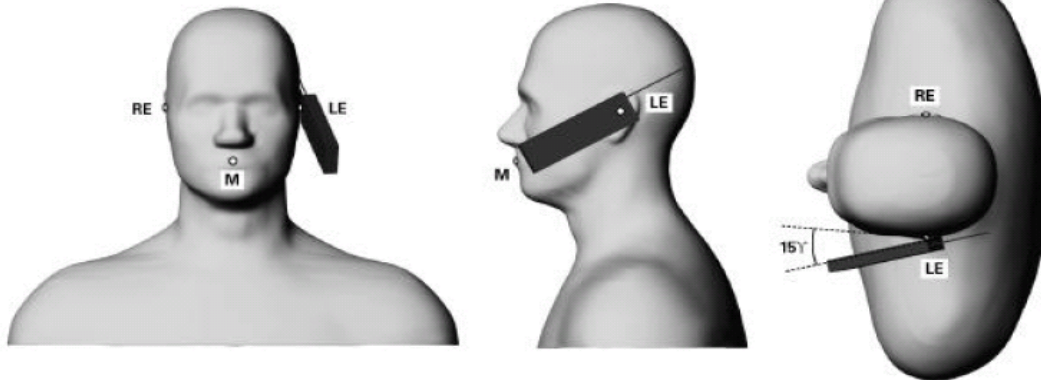
16. Since the WLAN function of this device does NOT support VoIP function. Users will not use it close to head. SAR evaluation of head adjacent is unnecessary, only Body condition will be considered for WLAN stand-alone situation.
17. The maximum SAR value for licensed transmitter happens on WCDMA B2 band, Head Leftt side(Cheek Position) , channel 9538 with Memory card. the value is **1.57W/kg(1g)**. And the max SAR value for un-licensed transmitter WLAN 802.11b happens on Body worn, channel 11 with Merry headset The SAR value is **0.077W/kg (1g)** . The summation of the 1g SAR is $1.57+0.077 = 1.647 \text{ W/kg}$, which higher than the limit **1.6W/kg**.
18. By the way , the peak distance(hotspot to hotspot) for WWAN and WLAN is 7.5 cm , we calculate the peak location separation ratio of simultaneous transmitting antenna pair , the value is **0.22** with less than 0.3. **NO simultaneous transmission SAR evaluation is necessary.**

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

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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.

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

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away from the probe tip. During measurements, the probe stops shortly above the phantom surface, depending on the probe and the surface detecting system. Both distances are included as parameters in the probe configuration file. The software always knows exactly how far away the measured point is from the surface. As the probe cannot directly measure at the surface, the values between the deepest measured point and the surface must be extrapolated. The angle between the probe axis and the surface normal line is less than 30 degree.

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

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

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the center.

1.8 The SAR Measurement System

A photograph of the SAR measurement System is given in Fig. a. This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY 5 professional system). A Model EX3DV3 & ES3DV3 field probe is used to determine the internal electric fields. The SAR can be obtained from the equation $SAR = \sigma (|E|^2) / \rho$ where σ and ρ are the conductivity and mass density of the tissue-simulant.

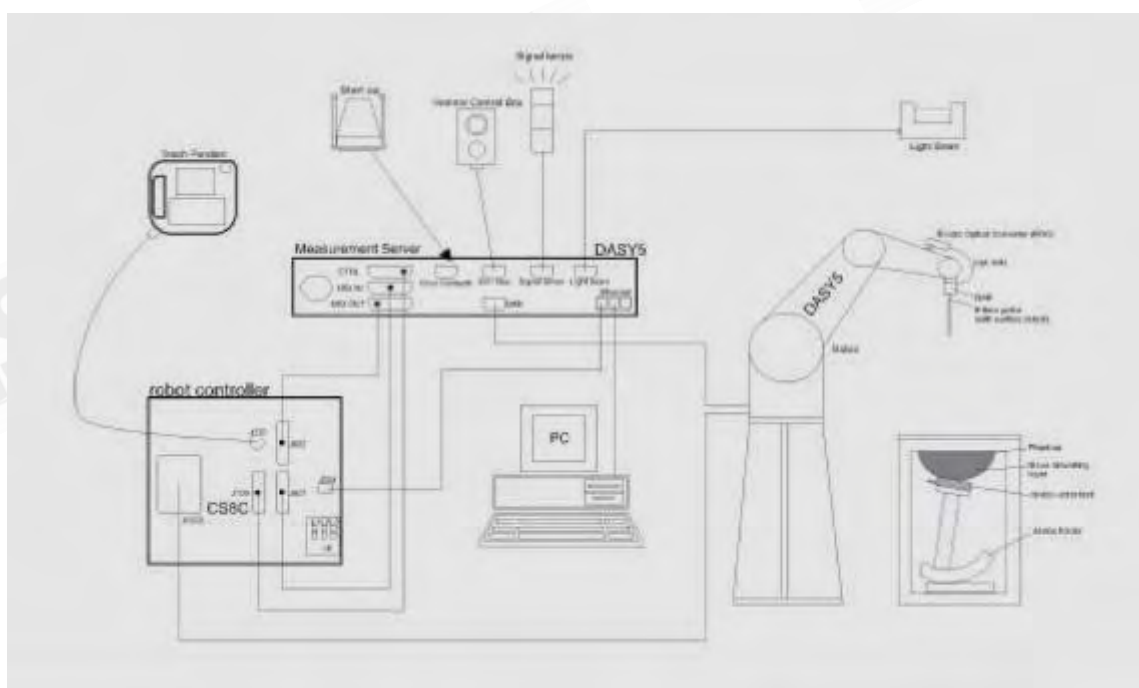


Fig.a The block diagram of SAR system

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

- A standard high precision 6-axis robot (Staubli RX family) with controller, teach pendant and software. An arm extension is for accommodating the data acquisition electronics (DAE).
- A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.


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- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to the DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
 - A computer operating Windows 2000 or Windows XP.
 - DASY5 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
 - The SAM twin phantom enabling testing left-hand and right-hand usage.
 - The device holder for handheld mobile phones.
 - Tissue simulating liquid mixed according to the given recipes.
 - Validation dipole kits allowing to validate the proper functioning of the system.

1.9 System Components

EX3DV3 & ES3DV3 E-Field Probe

Construction:	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Calibration:	Basic Broad Band Calibration in air Conversion Factors (CF) for HSL850/1900/2450 Additional CF for other liquids and frequencies upon request	


EX3DV3 & ES3DV3
E-Field Probe

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Frequency:	10 MHz to > 3 GHz; Linearity: ± 0.6 dB (30 MHz to 6 GHz)
Directivity:	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)
Dynamic Range:	10 μ W/g to > 100 mW/g; Linearity: ± 0.6 dB (noise: typically < 1 μ W/g)
Dimensions:	Overall length: 3370 mm (Tip: 10 mm) Tip diameter: 4 mm (Body: 10 mm) Typical distance from probe tip to dipole centers: 2 mm
Application:	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.


SAM PHANTOM V4.0C

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

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DEVICE HOLDER

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

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

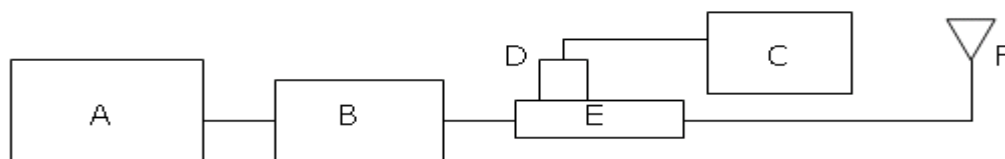
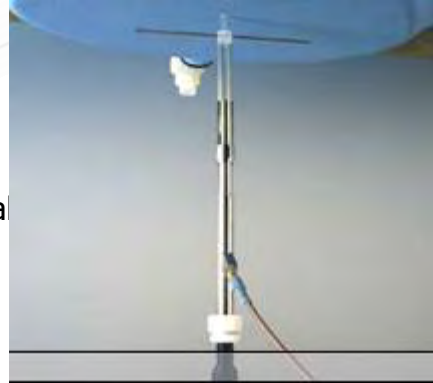


Fig.b The block diagram of SAR system verification

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- 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

Validation Kit	Frequency (MHz)	Target SAR (1g) (Pin=250mW)	Measured SAR (1g)	Measured Date
D835V2 S/N: 4d063	835 MHz (Head)	2.29 mW/g	2.22 mW/g	2009/05/06
D835V2 S/N: 4d063	835 MHz (Body)	2.44 mW/g	2.42 mW/g	2009/05/09
D1900V2 S/N: 5d018	1900 MHz (Head)	9.85 mW/g	9.95 mW/g	2009/05/06
D1900V2 S/N: 5d018	1900 MHz (Body)	9.6 mW/g	9.92 mW/g	2009/05/09
D2450V2 S/N: 735	2450 MHz (Body)	12.7 mW/g	13.1 mW/g	2009/05/09
D835V2 S/N: 4d063	835 MHz (Head)	2.29 mW/g	2.28 mW/g	2009/05/30
D835V2 S/N: 4d063	835 MHz (Body)	2.44 mW/g	2.45 mW/g	2009/05/30
D1900V2 S/N: 5d027	1900 MHz (Head)	10.5 mW/g	9.99 mW/g	2009/05/30
D1900V2 S/N: 5d027	1900 MHz (Body)	10.6 mW/g	10.1 mW/g	2009/05/30
D2450V2 S/N: 727	2450 MHz (Body)	13.2 mW/g	12.9 mW/g	2009/06/01
D835V2 S/N: 4d063	835 MHz (Head)	2.29 mW/g	2.26 mW/g	2009/06/02
D835V2 S/N: 4d063	835 MHz (Body)	2.44 mW/g	2.43 mW/g	2009/06/02

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D1900V2 S/N: 5d027	1900 MHz (Head)	10.5 mW/g	10.2 mW/g	2009/06/02
D1900V2 S/N: 5d027	1900 MHz (Body)	10.6 mW/g	10.3 mW/g	2009/06/02
D2450V2 S/N: 727	2450 MHz (Body)	13.2 mW/g	12.8 mW/g	2009/06/03

Table 1. System validation (follow manufacture target value)

1.11 Tissue Simulant Fluid for the Frequency Band

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

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

Frequency (MHz)	Tissue type	Measurement date/ Limits	Dielectric Parameters		
			ρ	σ (S/m)	Simulated Tissue Temperature(° C)
850	Head	Measured, 2009.05.06	39.9	0.858	21.7
		Recommended Limits	38.38-42.42	0.84-0.92	20-24
850	Body	Measured, 2009. 05.09	56	0.968	21.7
		Recommended Limits	50.73-56.07	0.94-1.04	20-24
1900	Head	Measured, 2009. 05.06	38.2	1.46	21.7
		Recommended Limits	37.43-41.37	1.39-1.53	20-24
1900	Body	Measured, 2009. 05.09	53.1	1.58	21.7
		Recommended Limits	49.4-54.6	1.46-1.62	20-24
2450	Body	Measured, 2009. 05.09	52.2	1.98	21.7
		Recommended Limits	50.07-55.34	1.85-2.05	20-24
850	Head	Measured, 2009. 05.30	39.9	0.857	21.7
		Recommended Limits	38.38-42.42	0.84-0.92	20-24
850	Body	Measured, 2009. 05.30	56	0.969	21.7
		Recommended Limits	50.73-56.07	0.94-1.04	20-24

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1900	Head	Measured, 2009. 05.30	38.2	1.47	21.7
		Recommended Limits	36.67-40.53	1.4-1.54	20-24
1900	Body	Measured, 2009. 05.30	53.2	1.57	21.7
		Recommended Limits	52.16-57.65	1.48-1.64	20-24
2450	Body	Measured, 2009. 06.01	52.2	1.99	21.7
		Recommended Limits	51.68-57.12	1.88-2.08	20-24
850	Head	Measured, 2009. 06.02	39.8	0.859	21.7
		Recommended Limits	38.38-42.42	0.84-0.92	20-24
850	Body	Measured, 2009. 06.02	55.9	0.968	21.7
		Recommended Limits	50.73-56.07	0.94-1.04	20-24
1900	Head	Measured, 2009. 06.02	38.1	1.45	21.7
		Recommended Limits	36.67-40.53	1.4-1.54	20-24
1900	Body	Measured, 2009. 06.02	53.2	1.59	21.7
		Recommended Limits	52.16-57.65	1.48-1.64	20-24
2450	Body	Measured, 2009. 06.03	52.1	1.97	21.7
		Recommended Limits	51.68-57.12	1.88-2.08	20-24

Table 2. Dielectric Parameters of Tissue Simulant Fluid

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

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

Table 3. Recipes for tissue simulating liquid

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1.12 Test Standards and Limits

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

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

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

(2) Limits for General Population/Uncontrolled exposure: 0.08 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 1.6 W/kg as averaged over any 1

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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

Original solution measurement result

GSM 850 MHZ

Right Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	128	824.2	32.57 dbm	0.413	22.1	21.7
	190	836.6	32.64 dbm	0.513	22.1	21.7
	251	848.8	32.61 dbm	0.64	22.1	21.7
Left Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	128	824.2	32.57 dbm	0.425	22.1	21.7
	190	836.6	32.64 dbm	0.515	22.1	21.7
	251	848.8	32.61 dbm	0.657	22.1	21.7
Right Head (15° Tilt Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	128	824.2	32.57 dbm	0.334	22.1	21.7
	190	836.6	32.64 dbm	0.389	22.1	21.7
	251	848.8	32.61 dbm	0.484	22.1	21.7
Left Head (15° Tilt Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	128	824.2	32.57 dbm	0.327	22.1	21.7
	190	836.6	32.64 dbm	0.38	22.1	21.7
	251	848.8	32.61 dbm	0.484	22.1	21.7

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Body worn (testing in GPRS mode)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	128	824.2	32.35 dbm	0.767	22.1	21.7
	190	836.6	32.37 dbm	0.894	22.1	21.7
	251	848.8	32.39 dbm	1.11	22.1	21.7
Body worn (testing in GPRS mode)_repeated for EUT front to phantom						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	251	848.8	32.39 dbm	0.589	22.1	21.7
Body worn (testing in GPRS mode)_repeated with Memory card						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	251	848.8	32.39 dbm	0.934	22.1	21.7
Body worn (testing in GPRS mode)_repeated with Cotron headset						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	251	848.8	32.39 dbm	0.842	22.1	21.7
Body worn (testing in GPRS mode)_repeated with Merry headset						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	251	848.8	32.39 dbm	0.598	22.1	21.7
Body worn (testing in GPRS mode)_repeated with HTE Battery						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	251	848.8	32.39 dbm	0.937	22.1	21.7
Body worn (testing in GPRS mode)_repeated with Formosa Battery						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	251	848.8	32.39 dbm	0.975	22.1	21.7
Body worn (testing in EGPRS mode)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	128	824.2	26.04 dbm	0.181	22.1	21.7
	190	836.6	26.06 dbm	0.221	22.1	21.7
	251	848.8	25.81 dbm	0.292	22.1	21.7

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PCS 1900 MHZ

Right Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	512	1850.2	29.12 dbm	0.616	22.1	21.7
	661	1880	29.18 dbm	0.725	22.1	21.7
	810	1909.8	29.19 dbm	0.721	22.1	21.7
Left Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	512	1850.2	29.12 dbm	0.855	22.1	21.7
	661	1880	29.18 dbm	0.942	22.1	21.7
	810	1909.8	29.19 dbm	0.918	22.1	21.7
Right Head (15° Tilt Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	512	1850.2	29.12 dbm	0.443	22.1	21.7
	661	1880	29.18 dbm	0.475	22.1	21.7
	810	1909.8	29.19 dbm	0.471	22.1	21.7
Left Head (15° Tilt Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	512	1850.2	29.12 dbm	0.473	22.1	21.7
	661	1880	29.18 dbm	0.527	22.1	21.7
	810	1909.8	29.19 dbm	0.546	22.1	21.7
Body worn (testing in GPRS mode)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	512	1850.2	28.87 dbm	0.418	22.1	21.7
	661	1880	28.82 dbm	0.436	22.1	21.7
	810	1909.8	28.86 dbm	0.376	22.1	21.7

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Body worn (testing in EGPRS mode)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	512	1850.2	24.82 dbm	0.173	22.1	21.7
	661	1880	24.92 dbm	0.179	22.1	21.7
	810	1909.8	24.95 dbm	0.158	22.1	21.7

WCDMA BAND 2

Right Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B2	9262	1852.4	22.62 dbm	0.997	22.1	21.7
	9400	1880	22.82 dbm	1.11	22.1	21.7
	9538	1907.6	22.52 dbm	1.18	22.1	21.7

Left Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B2	9262	1852.4	22.62 dbm	1.35	22.1	21.7
	9400	1880	22.82 dbm	1.51	22.1	21.7
	9538	1907.6	22.52 dbm	1.52	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]
WCDMA B2	9538	1907.6	22.52 dbm	1.57	22.1	21.7

Left Head (Cheek Position)_repeated with HTE Battery						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B2	9538	1907.6	22.52 dbm	1.55	22.1	21.7

Left Head (Cheek Position)_repeated with Formosa Battery						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B2	9538	1907.6	22.52 dbm	1.49	22.1	21.7

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Right Head (15° Tilt Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B2	9262	1852.4	22.62 dbm	0.706	22.1	21.7
	9400	1880	22.82 dbm	0.715	22.1	21.7
	9538	1907.6	22.52 dbm	0.718	22.1	21.7
Left Head (15° Tilt Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B2	9262	1852.4	22.62 dbm	0.869	22.1	21.7
	9400	1880	22.82 dbm	0.892	22.1	21.7
	9538	1907.6	22.52 dbm	0.913	22.1	21.7
Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B2	9262	1852.4	22.62 dbm	0.383	22.1	21.7
	9400	1880	22.82 dbm	0.389	22.1	21.7
	9538	1907.6	22.52 dbm	0.37	22.1	21.7

WCDMA BAND 2 HSDPA mode(Sub-test 1)

Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B2	9262	1852.4	22.57 dbm	0.358	22.1	21.7
	9400	1880	22.77 dbm	0.372	22.1	21.7
	9538	1907.6	22.56 dbm	0.347	22.1	21.7

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WCDMA BAND 2 HSUPA mode(Sub-test 5)

Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B2	9262	1852.4	22.24 dbm	0.344	22.1	21.7
	9400	1880	22.31 dbm	0.373	22.1	21.7
	9538	1907.6	22.22 dbm	0.347	22.1	21.7

WCDMA BAND 5

Right Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4132	826.4	23.02 dbm	0.534	22.1	21.7
	4183	836.6	23.08 dbm	0.554	22.1	21.7
	4233	846.6	22.52 dbm	0.539	22.1	21.7
Left Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4132	826.4	23.02 dbm	0.528	22.1	21.7
	4183	836.6	23.08 dbm	0.539	22.1	21.7
	4233	846.6	22.52 dbm	0.53	22.1	21.7
Right Head (15° Tilt Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4132	826.4	23.02 dbm	0.367	22.1	21.7
	4183	836.6	23.08 dbm	0.366	22.1	21.7
	4233	846.6	22.52 dbm	0.371	22.1	21.7

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Left Head (15° Tilt Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4132	826.4	23.02 dbm	0.398	22.1	21.7
	4183	836.6	23.08 dbm	0.403	22.1	21.7
	4233	846.6	22.52 dbm	0.414	22.1	21.7
Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4132	826.4	23.02 dbm	0.514	22.1	21.7
	4183	836.6	23.08 dbm	0.534	22.1	21.7
	4233	846.6	22.52 dbm	0.508	22.1	21.7

WCDMA BAND 5 HSDPA mode(Sub-test 1)

Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4132	826.4	23.01 dbm	0.502	22.1	21.7
	4183	836.6	23.04 dbm	0.546	22.1	21.7
	4233	846.6	23.02 dbm	0.512	22.1	21.7

WCDMA BAND 5 HSUPA mode(Sub-test 5)

Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4132	826.4	22.63 dbm	0.456	22.1	21.7
	4183	836.6	22.79 dbm	0.511	22.1	21.7
	4233	846.6	22.67 dbm	0.489	22.1	21.7

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WLAN802.11 b

Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WLAN 802.11 b	1	2412	16.85 dbm	0.057	22.1	21.7
	6	2437	16.83 dbm	0.056	22.1	21.7
	11	2462	16.87 dbm	0.059	22.1	21.7
Body worn- repeated for EUT front to phantom						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WLAN 802.11 b	11	2462	16.87 dbm	0.019	22.1	21.7
Body worn-repeated with Memory card						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WLAN 802.11 b	11	2462	16.87 dbm	0.06	22.1	21.7
Body worn-repeated with Bluetooth active						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WLAN 802.11 b	11	2462	16.87 dbm	0.059	22.1	21.7
Body worn- repeated with Cotron headset						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WLAN 802.11 b	11	2462	16.87 dbm	0.068	22.1	21.7
Body worn- repeated with Merry headset						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WLAN 802.11 b	11	2462	16.87 dbm	0.077	22.1	21.7
Body worn- repeated with HTE Battery						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WLAN 802.11 b	11	2462	16.87 dbm	0.059	22.1	21.7

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Body worn- repeated with Formosa Battery						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WLAN 802.11 b	11	2462	16.87 dbm	0.067	22.1	21.7

WLAN 802.11 g

Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WLAN 802.11 g	1	2412	8.7 dbm	0.017	22.1	21.7
	6	2437	8.65 dbm	0.016	22.1	21.7
	11	2462	8.67 dbm	0.016	22.1	21.7

Second solution measurement result

GSM 850 MHZ

Left Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	251	848.8	32.61 dbm	0.578	22.1	21.7
Body worn (testing in GPRS mode)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	251	848.8	32.39 dbm	0.985	22.1	21.7

PCS 1900 MHZ

Left Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	661	1880	29.18 dbm	0.991	22.1	21.7

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Body worn (testing in GPRS mode)

Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	661	1880	28.82 dbm	0.424	22.1	21.7

WCDMA BAND 2
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]
WCDMA B2	9538	1907.6	22.52 dbm	1.52	22.1	21.7

Body worn

Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B2	9400	1880	22.82 dbm	0.377	22.1	21.7

WCDMA BAND 2 HSDPA mode(Sub-test 1)
Body worn

Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B2	9400	1880	22.77 dbm	0.365	22.1	21.7

WCDMA BAND 2 HSUPA mode(Sub-test 5)
Body worn

Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B2	9400	1880	22.31 dbm	0.315	22.1	21.7

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WCDMA BAND 5

Right Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4183	836.6	23.08 dbm	0.502	22.1	21.7
Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4183	836.6	23.08 dbm	0.553	22.1	21.7

WCDMA BAND 5 HSDPA mode(Sub-test 1)

Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4183	836.6	23.04 dbm	0.536	22.1	21.7

WCDMA BAND 5 HSUPA mode(Sub-test 5)

Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4183	836.6	22.79 dbm	0.505	22.1	21.7

WLAN802.11 b

Body worn_repeated with Merry headset						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WLAN 802.11 b	11	2462	16.87 dbm	0.084	22.1	21.7

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WLAN 802.11 g

Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WLAN 802.11 g	1	2412	8.7 dbm	0.019	22.1	21.7

Third solution measurement result

GSM 850 MHZ

Lift Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	251	848.8	32.61 dbm	0.533	22.1	21.7
Body worn (testing in GPRS mode)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	251	848.8	32.39 dbm	0.898	22.1	21.7

PCS 1900 MHZ

Left Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	661	1880	29.18 dbm	1.06	22.1	21.7
Body worn (testing in GPRS mode)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	661	1880	28.82 dbm	0.359	22.1	21.7

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WCDMA BAND 2

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]
WCDMA B2	9538	1907.6	22.52 dbm	1.53	22.1	21.7
Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B2	9400	1880	22.82 dbm	0.362	22.1	21.7

WCDMA BAND 2 HSDPA mode(Sub-test 1)

Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B2	9400	1880	22.77 dbm	0.351	22.1	21.7

WCDMA BAND 2 HSUPA mode(Sub-test 5)

Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B2	9400	1880	22.61 dbm	0.344	22.1	21.7

WCDMA BAND 5

Right Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4183	836.6	23.08 dbm	0.448	22.1	21.7
Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4183	836.6	23.08 dbm	0.553	22.1	21.7

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WCDMA BAND 5 HSDPA mode(Sub-test 1)

Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4183	836.6	23.04 dbm	0.537	22.1	21.7

WCDMA BAND 5 HSUPA mode(Sub-test 5)

Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4183	836.6	22.79 dbm	0.503	22.1	21.7

WLAN802.11 b

Body worn_repeated with Merry headset						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WLAN 802.11 b	11	2462	16.87 dbm	0.086	22.1	21.7

WLAN 802.11 g

Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WLAN 802.11 g	1	2412	8.7 dbm	0.015	22.1	21.7

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Fourth solution measurement result

GSM 850 MHZ

Left Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	251	848.8	32.61 dbm	0.557	22.1	21.7
Body worn (testing in GPRS mode)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	251	848.8	32.39 dbm	0.946	22.1	21.7

PCS 1900 MHZ

Left Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	661	1880	29.18 dbm	0.908	22.1	21.7
Body worn (testing in GPRS mode)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	661	1880	28.82 dbm	0.359	22.1	21.7

WCDMA BAND 2

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]
WCDMA B2	9538	1907.6	22.52 dbm	1.5	22.1	21.7
Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B2	9400	1880	22.82 dbm	0.416	22.1	21.7

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WCDMA BAND 2 HSDPA mode(Sub-test 1)

Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B2	9400	1880	22.77 dbm	0.414	22.1	21.7

WCDMA BAND 2 HSUPA mode(Sub-test 5)

Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B2	9400	1880	22.31 dbm	0.353	22.1	21.7

WCDMA BAND 5

Right Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4183	836.6	23.08 dbm	0.51	22.1	21.7
Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4183	836.6	23.08 dbm	0.549	22.1	21.7

WCDMA BAND 5 HSDPA mode(Sub-test 1)

Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4183	836.6	23.04 dbm	0.547	22.1	21.7

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WCDMA BAND 5 HSUPA mode(Sub-test 5)

Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4183	836.6	22.79 dbm	0.497	22.1	21.7

WLAN802.11 b

Body worn_repeated with Merry headset						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WLAN 802.11 b	11	2462	16.87 dbm	0.092	22.1	21.7

WLAN 802.11 g

Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WLAN 802.11 g	1	2412	8.7 dbm	0.017	22.1	21.7

Fifth solution measurement result

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	251	848.8	32.61 dbm	0.529	22.1	21.7
Body worn (testing in GPRS mode)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	251	848.8	32.39 dbm	0.905	22.1	21.7

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PCS 1900 MHZ

Left Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	661	1880	29.18 dbm	1.12	22.1	21.7
Body worn (testing in GPRS mode)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	661	1880	28.82 dbm	0.386	22.1	21.7

WCDMA BAND 2

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]
WCDMA B2	9538	1907.6	22.52 dbm	1.49	22.1	21.7
Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B2	9400	1880	22.82 dbm	0.357	22.1	21.7

WCDMA BAND 2 HSDPA mode(Sub-test 1)

Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B2	9400	1880	22.77 dbm	0.347	22.1	21.7

WCDMA BAND 2 HSUPA mode(Sub-test 5)

Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B2	9400	1880	22.31 dbm	0.327	22.1	21.7

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WCDMA BAND 5

Right Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4183	836.6	23.08 dbm	0.452	22.1	21.7
Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4183	836.6	23.08 dbm	0.479	22.1	21.7

WCDMA BAND 5 HSDPA mode(Sub-test 1)

Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4183	836.6	23.04 dbm	0.456	22.1	21.7

WCDMA BAND 5 HSUPA mode(Sub-test 5)

Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4183	836.6	22.79 dbm	0.427	22.1	21.7

WLAN802.11 b

Body worn_repeated with Merry headset						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WLAN 802.11 b	11	2462	16.87 dbm	0.087	22.1	21.7

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WLAN 802.11 g

Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WLAN 802.11 g	1	2412	8.7 dbm	0.018	22.1	21.7

Sixth solution measurement result

GSM 850 MHZ

Left Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	251	848.8	32.61 dbm	0.53	22.1	21.7
Body worn (testing in GPRS mode)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	251	848.8	32.39 dbm	1.05	22.1	21.7

PCS 1900 MHZ

Left Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	661	1880	29.18 dbm	1.09	22.1	21.7
Body worn (testing in GPRS mode)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	661	1880	28.82 dbm	0.392	22.1	21.7

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WCDMA BAND 2

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]
WCDMA B2	9538	1907.6	22.52 dbm	1.55	22.1	21.7
Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B2	9400	1880	22.82 dbm	0.414	22.1	21.7

WCDMA BAND 2 HSDPA mode(Sub-test 1)

Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B2	9400	1880	22.77 dbm	0.383	22.1	21.7

WCDMA BAND 2 HSUPA mode(Sub-test 5)

Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B2	9400	1880	22.31 dbm	0.339	22.1	21.7

WCDMA BAND 5

Right Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4183	836.6	23.08 dbm	0.469	22.1	21.7
Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4183	836.6	23.08 dbm	0.548	22.1	21.7

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WCDMA BAND 5 HSDPA mode(Sub-test 1)

Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4183	836.6	23.04 dbm	0.542	22.1	21.7

WCDMA BAND 5 HSUPA mode(Sub-test 5)

Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4183	836.6	22.79 dbm	0.499	22.1	21.7

WLAN802.11 b

Body worn_repeated with Merry headset						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WLAN 802.11 b	11	2462	16.87 dbm	0.087	22.1	21.7

WLAN 802.11 g

Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WLAN 802.11 g	1	2412	8.7 dbm	0.02	22.1	21.7

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Seventh solution measurement result

GSM 850 MHZ

Left Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	251	848.8	32.61 dbm	0.565	22.1	21.7
Body worn (testing in GPRS mode)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	251	848.8	32.39 dbm	1.09	22.1	21.7

PCS 1900 MHZ

Left Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	661	1880	29.18 dbm	1.05	22.1	21.7
Body worn (testing in GPRS mode)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	661	1880	28.82 dbm	0.398	22.1	21.7

WCDMA BAND 2

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]
WCDMA B2	9538	1907.6	22.52 dbm	1.5	22.1	21.7
Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B2	9400	1880	22.82 dbm	0.387	22.1	21.7

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WCDMA BAND 2 HSDPA mode(Sub-test 1)

Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B2	9400	1880	22.77 dbm	0.376	22.1	21.7

WCDMA BAND 2 HSUPA mode(Sub-test 5)

Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B2	9400	1880	22.31 dbm	0.332	22.1	21.7

WCDMA BAND 5

Right Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4183	836.6	23.08 dbm	0.545	22.1	21.7
Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4183	836.6	23.08 dbm	0.596	22.1	21.7

WCDMA BAND 5 HSDPA mode(Sub-test 1)

Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4183	836.6	23.04 dbm	0.549	22.1	21.7

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WCDMA BAND 5 HSUPA mode(Sub-test 5)

Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4183	836.6	22.79 dbm	0.53	22.1	21.7

WLAN802.11 b

Body worn_repeated with Merry headset						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WLAN 802.11 b	11	2462	16.87 dbm	0.083	22.1	21.7

WLAN 802.11 g

Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WLAN 802.11 g	1	2412	8.7 dbm	0.019	22.1	21.7

Eighth solution measurement result

GSM 850 MHZ

Left Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	251	848.8	32.61 dbm	0.637	22.1	21.7
Body worn (testing in GPRS mode)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
850 MHz	251	848.8	32.39 dbm	1.2	22.1	21.7

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PCS 1900 MHZ

Left Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	661	1880	29.18 dbm	1.12	22.1	21.7
Body worn (testing in GPRS mode)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
1900 MHz	661	1880	28.82 dbm	0.393	22.1	21.7

WCDMA BAND 2

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]
WCDMA B2	9538	1907.6	22.52 dbm	1.56	22.1	21.7
Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B2	9400	1880	22.82 dbm	0.417	22.1	21.7

WCDMA BAND 2 HSDPA mode(Sub-test 1)

Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B2	9400	1880	22.77 dbm	0.364	22.1	21.7

WCDMA BAND 2 HSUPA mode(Sub-test 5)

Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B2	9400	1880	22.31 dbm	0.357	22.1	21.7

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WCDMA BAND 5

Right Head (Cheek Position)						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4183	836.6	23.08 dbm	0.536	22.1	21.7
Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4183	836.6	23.08 dbm	0.541	22.1	21.7

WCDMA BAND 5 HSDPA mode(Sub-test 1)

Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4183	836.6	23.04 dbm	0.526	22.1	21.7

WCDMA BAND 5 HSUPA mode(Sub-test 5)

Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B5	4183	836.6	22.79 dbm	0.519	22.1	21.7

WLAN802.11 b

Body worn_repeated with Merry headset						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WLAN 802.11 b	11	2462	16.87 dbm	0.077	22.1	21.7

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WLAN 802.11 g

Body worn						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WLAN 802.11 g	1	2412	8.7 dbm	0.015	22.1	21.7

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3. Instruments List

Manufacturer	Device	Type	Serial number	Date of last calibration
Schmid & Partner Engineering AG	Dosimetric E-FieldProbe	ES3DV3	3172	Jun.23.2008
		EX3DV3	3526	Aug.26.2008
Schmid & Partner Engineering AG	850/1900/2450MHZ System Validation Dipole	D835V2	4d063	Jun.06.2008
		D1900V2	5d018	May.22.2008
		D2450V2	735	May.22.2008
		D1900V2	5d027	Apr.27.2009
		D2450V2	727	Apr.27.2009
Schmid & Partner Engineering AG	Data acquisition Electronics	DAE4	871	Sep.24.2008
Schmid & Partner Engineering AG	Software	DASY 5 V5.0 Build125	N/A	Calibration not required
Schmid & Partner Engineering AG	Phantom	SAM	N/A	Calibration not required
Agilent	Network Analyzer	8753D	3410A05547	Mar.31.2009
Agilent	Dielectric Probe Kit	85070D	US01440168	Calibration not required
Agilent	Dual-directional coupler	778D	50313	Aug.26.2008
		777D	50014	Aug.26.2008
Agilent	RF Signal Generator	8648D	3847M00432	May.25.2009
Agilent	Power Sensor	U2001B	MY48100169	Apr.23.2009
Agilent	Radio Communication Test	E5515c	GB44051912	Nov.05 .2008

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4. Measurements

Date/Time: 05/06/2009 01:15:23

RE_Cheek_CH128

DUT: HERO130;

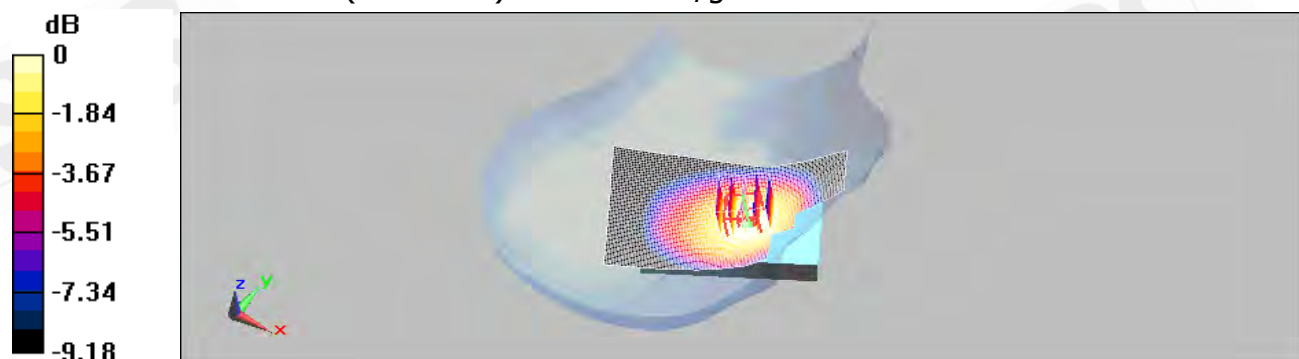
Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3
Medium: Head 900 Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.857$ mho/m; $\epsilon_r = 40.3$; $\rho = 1000$ kg/m³
Phantom section: Right Section

- Probe: ES3DV3 - SN3172; ConvF(5.66, 5.66, 5.66); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.440 mW/g

RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.6 V/m; Power Drift = -0.019 dB
Peak SAR (extrapolated) = 0.484 W/kg

SAR(1 g) = 0.413 mW/g; SAR(10 g) = 0.320 mW/g
Maximum value of SAR (measured) = 0.434 mW/g



0 dB = 0.434mW/g

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Date/Time: 05/06/2009 01:42:38

RE_Cheek_CH190

DUT: HERO130;

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

Medium: Head 900 Medium parameters used: $f = 837$ MHz; $\sigma = 0.861$ mho/m; $\epsilon_r = 39.9$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.66, 5.66, 5.66); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (interpolated) = 0.541 mW/g

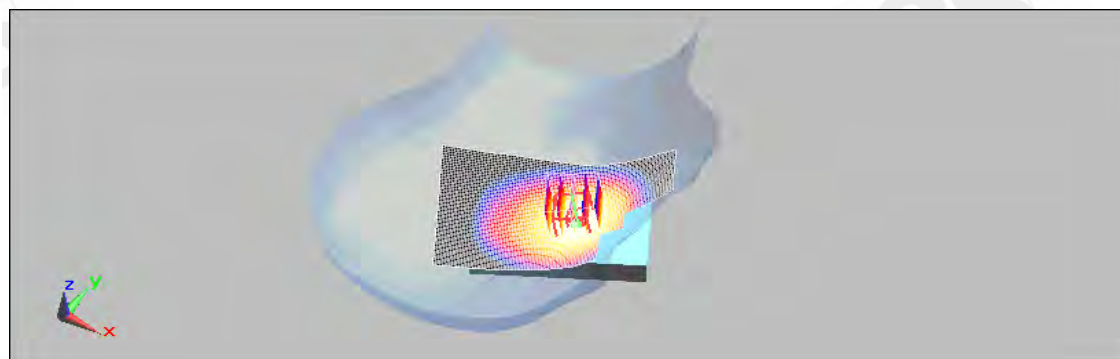
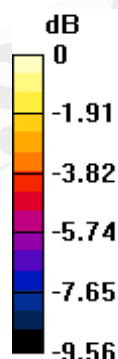
RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.6 V/m; Power Drift = -0.037 dB

Peak SAR (extrapolated) = 0.609 W/kg

SAR(1 g) = 0.513 mW/g; SAR(10 g) = 0.395 mW/g

Maximum value of SAR (measured) = 0.541 mW/g



0 dB = 0.541mW/g

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Date/Time: 05/06/2009 02:01:09

RE_Cheek_CH251

DUT: HERO130;

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3
Medium: Head 900 Medium parameters used: $f = 849$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³
Phantom section: Right Section

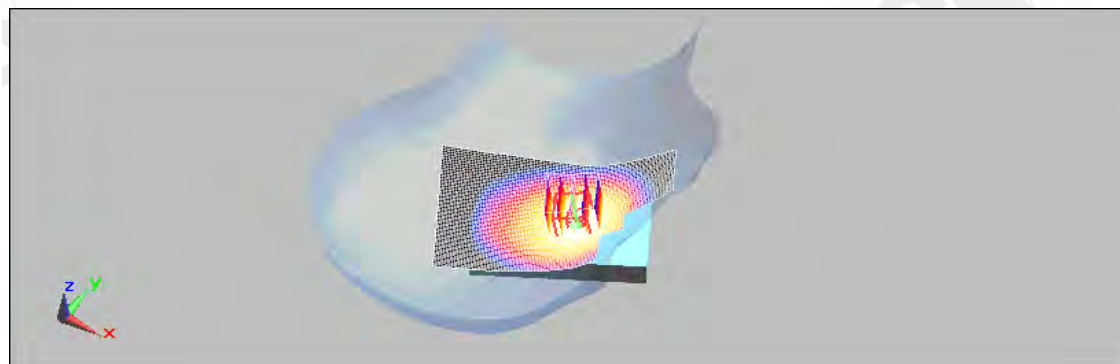
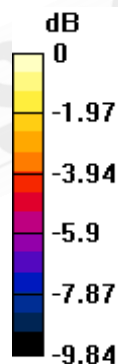
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.66, 5.66, 5.66); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.678 mW/g

RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.7 V/m; Power Drift = -0.027 dB
Peak SAR (extrapolated) = 0.754 W/kg

SAR(1 g) = 0.640 mW/g; SAR(10 g) = 0.493 mW/g
Maximum value of SAR (measured) = 0.673 mW/g



0 dB = 0.673mW/g

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Date/Time: 05/06/2009 03:50:28

LE_Cheek_CH128

DUT: HERO130;

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3
Medium: Head 900 Medium parameters used (interpolated): $f = 824.2 \text{ MHz}$; $\sigma = 0.857 \text{ mho/m}$; $\epsilon_r = 40.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

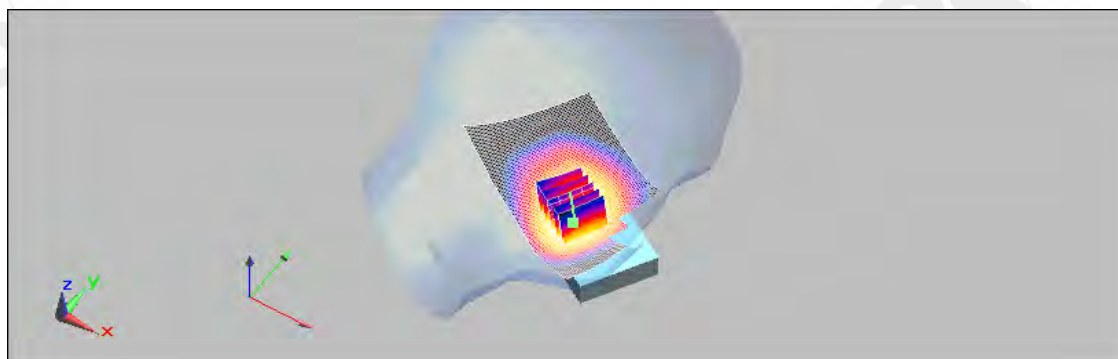
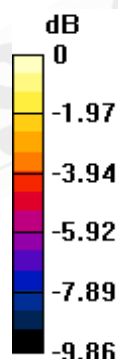
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.66, 5.66, 5.66); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.452 mW/g

LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 11.2 V/m; Power Drift = -0.115 dB
Peak SAR (extrapolated) = 0.530 W/kg

SAR(1 g) = 0.425 mW/g; SAR(10 g) = 0.321 mW/g
Maximum value of SAR (measured) = 0.444 mW/g



0 dB = 0.444mW/g

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Date/Time: 05/06/2009 04:16:26

LE_Cheek_CH190

DUT: HERO130;

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

Medium: Head 900 Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.861 \text{ mho/m}$; $\epsilon_r = 39.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.66, 5.66, 5.66); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.544 mW/g

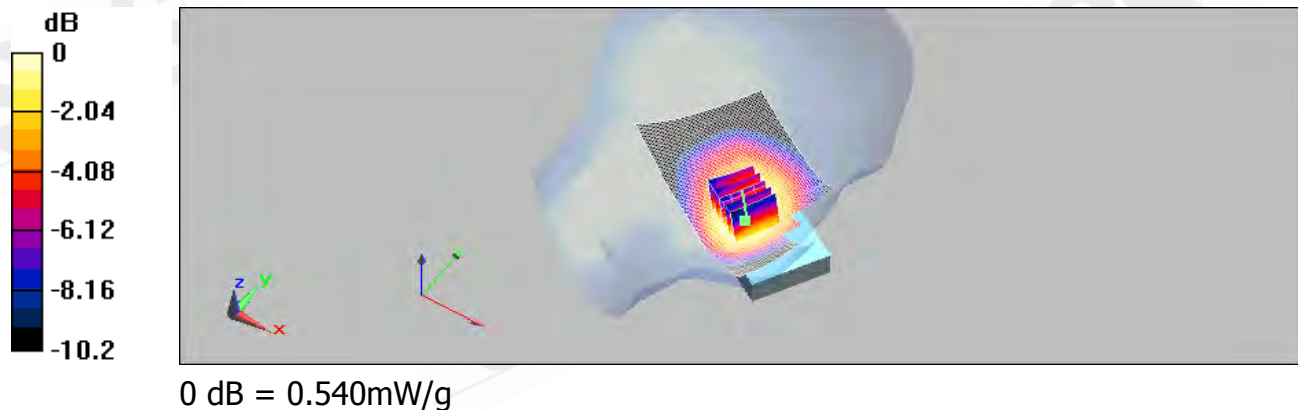
LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.1 V/m; Power Drift = 0.038 dB

Peak SAR (extrapolated) = 0.643 W/kg

SAR(1 g) = 0.515 mW/g; SAR(10 g) = 0.387 mW/g

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



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Date/Time: 05/06/2009 04:43:15

LE_Cheek_CH251

DUT: HERO130;

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3
Medium: Head 900 Medium parameters used: $f = 849$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³
Phantom section: Left Section

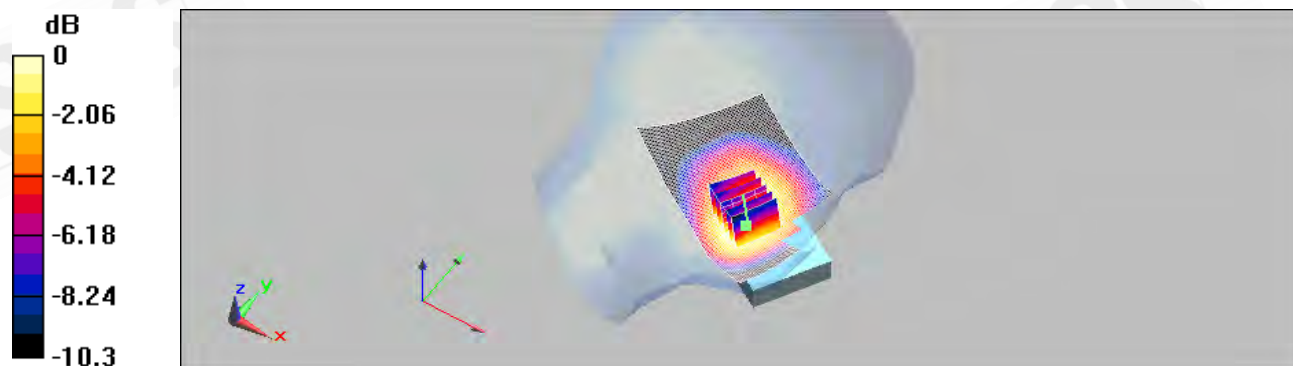
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.66, 5.66, 5.66); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.701 mW/g

LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.5 V/m; Power Drift = -0.031 dB
Peak SAR (extrapolated) = 0.828 W/kg

SAR(1 g) = 0.657 mW/g; SAR(10 g) = 0.492 mW/g
Maximum value of SAR (measured) = 0.689 mW/g



0 dB = 0.689mW/g

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Date/Time: 05/06/2009 02:27:51

RE_Tilt_CH128

DUT: HERO130;

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3
Medium: Head 900 Medium parameters used (interpolated): $f = 824.2 \text{ MHz}$; $\sigma = 0.857 \text{ mho/m}$; $\epsilon_r = 40.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.66, 5.66, 5.66); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

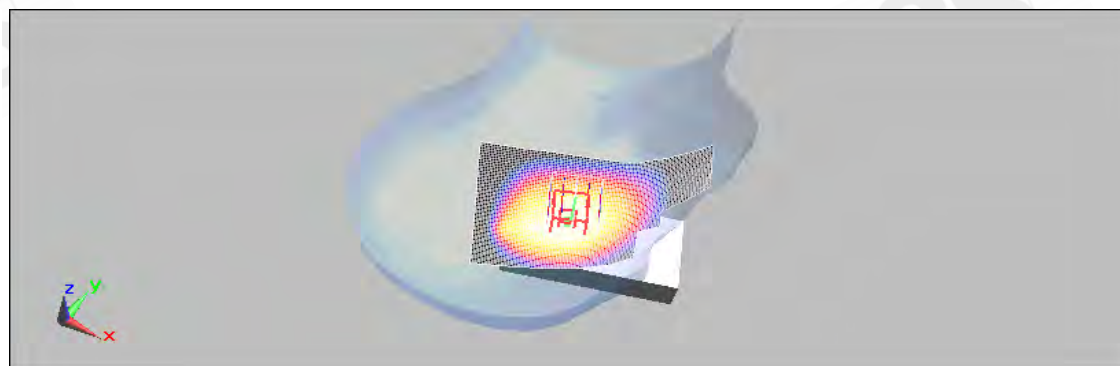
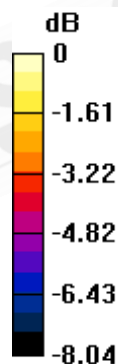
RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 17.5 V/m; Power Drift = 0.121 dB

Peak SAR (extrapolated) = 0.398 W/kg

SAR(1 g) = 0.334 mW/g; SAR(10 g) = 0.258 mW/g

Maximum value of SAR (measured) = 0.349 mW/g



0 dB = 0.349mW/g

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Date/Time: 05/06/2009 02:54:56

RE_Tilt_CH190

DUT: HERO130;

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

Medium: Head 900 Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.861 \text{ mho/m}$; $\epsilon_r = 39.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.66, 5.66, 5.66); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Tilt/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.403 mW/g

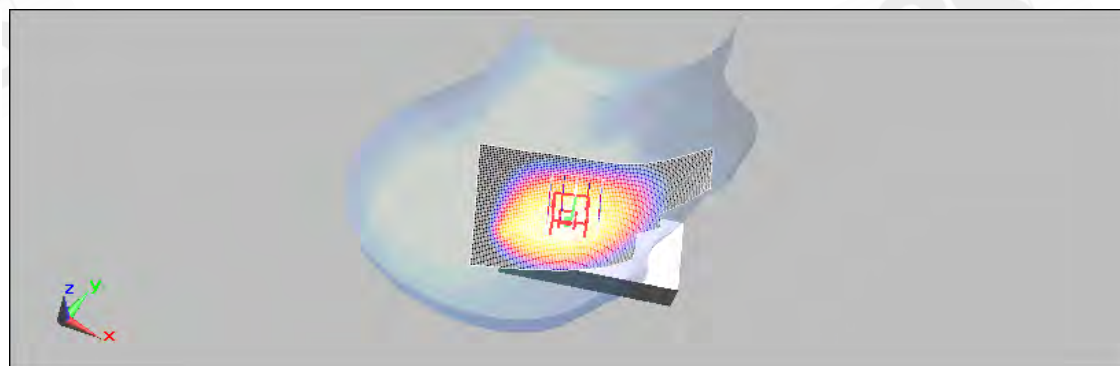
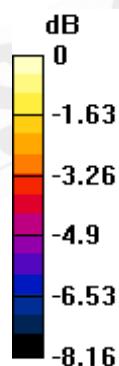
RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 18.9 V/m; Power Drift = -0.026 dB

Peak SAR (extrapolated) = 0.478 W/kg

SAR(1 g) = 0.389 mW/g; SAR(10 g) = 0.299 mW/g

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



0 dB = 0.407mW/g

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Date/Time: 05/06/2009 03:23:32

RE_Tilt_CH251

DUT: HERO130;

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

Medium: Head 900 Medium parameters used: $f = 849$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.66, 5.66, 5.66); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.513 mW/g

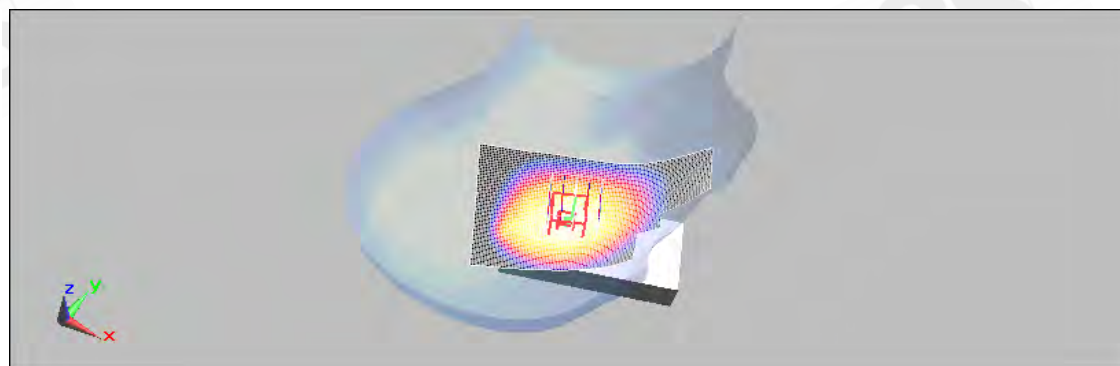
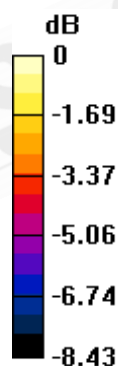
RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.8 V/m; Power Drift = -0.043 dB

Peak SAR (extrapolated) = 0.592 W/kg

SAR(1 g) = 0.484 mW/g; SAR(10 g) = 0.370 mW/g

Maximum value of SAR (measured) = 0.506 mW/g



0 dB = 0.506mW/g

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Date/Time: 05/06/2009 05:12:32

LE_Tilt_CH128

DUT: HERO130;

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3
Medium: Head 900 Medium parameters used (interpolated): $f = 824.2 \text{ MHz}$; $\sigma = 0.857 \text{ mho/m}$; $\epsilon_r = 40.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.66, 5.66, 5.66); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Tilt/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.346 mW/g

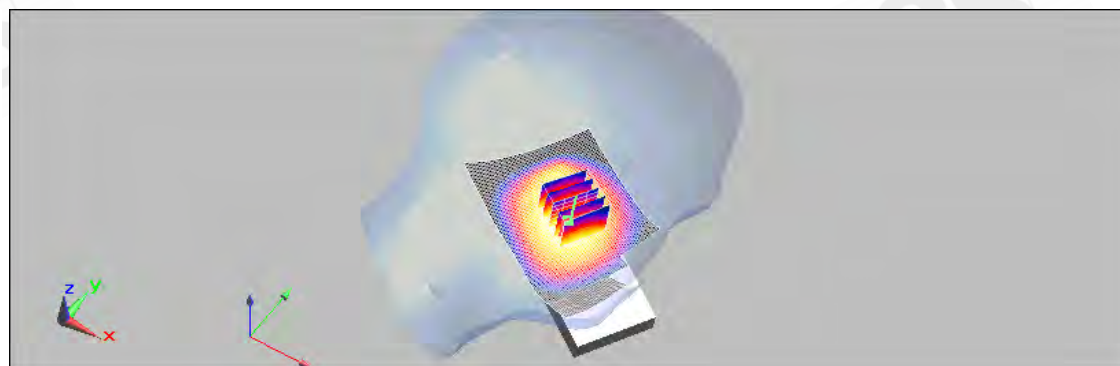
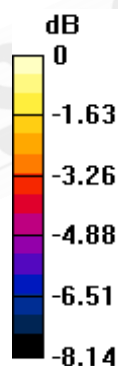
LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 17.8 V/m; Power Drift = 0.025 dB

Peak SAR (extrapolated) = 0.393 W/kg

SAR(1 g) = 0.327 mW/g; SAR(10 g) = 0.253 mW/g

Maximum value of SAR (measured) = 0.343 mW/g



0 dB = 0.343mW/g

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Date/Time: 05/06/2009 05:39:29

LE_Tilt_CH190

DUT: HERO130;

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

Medium: Head 900 Medium parameters used: $f = 837$ MHz; $\sigma = 0.861$ mho/m; $\epsilon_r = 39.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.66, 5.66, 5.66); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (interpolated) = 0.392 mW/g

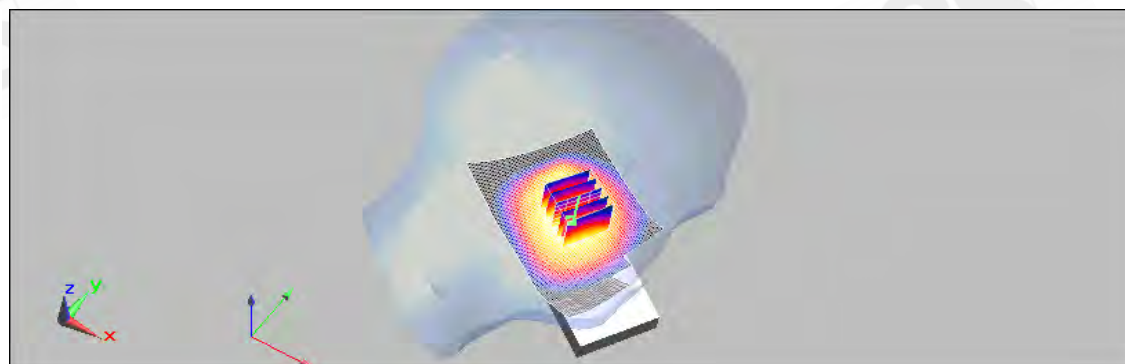
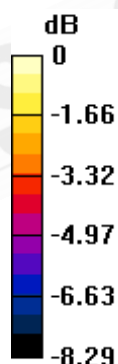
LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.1 V/m; Power Drift = 0.025 dB

Peak SAR (extrapolated) = 0.457 W/kg

SAR(1 g) = 0.380 mW/g; SAR(10 g) = 0.292 mW/g

Maximum value of SAR (measured) = 0.399 mW/g



0 dB = 0.399mW/g

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Date/Time: 05/06/2009 06:05:23

LE_Tilt_CH251

DUT: HERO130;

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

Medium: Head 900 Medium parameters used: $f = 849$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.66, 5.66, 5.66); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.511 mW/g

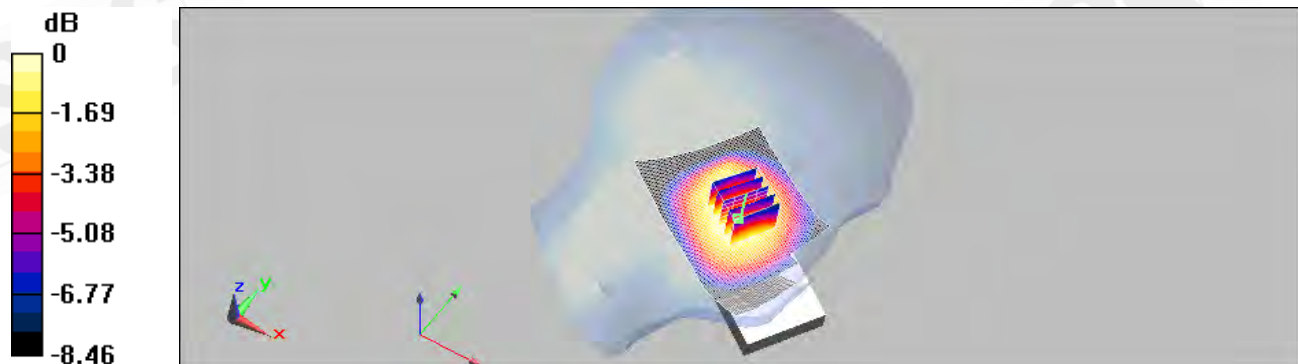
LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.2 V/m; Power Drift = 0.052 dB

Peak SAR (extrapolated) = 0.591 W/kg

SAR(1 g) = 0.484 mW/g; SAR(10 g) = 0.369 mW/g

Maximum value of SAR (measured) = 0.507 mW/g



0 dB = 0.507mW/g

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Date/Time: 05/09/2009 16:07:34

BODY_CH128

DUT: HERO130;

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:4
Medium: BODY 900 Medium parameters used (interpolated): $f = 824.2 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 55.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

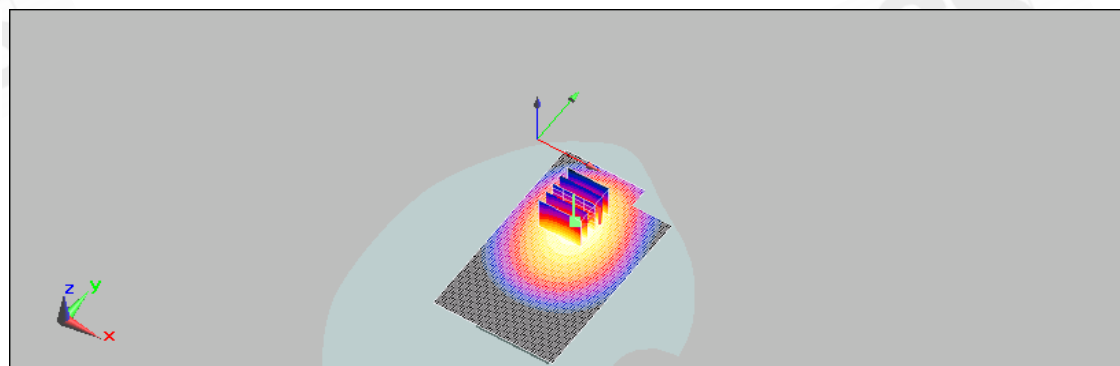
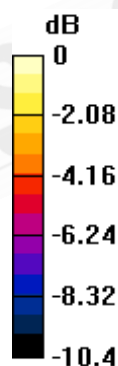
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.813 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 8.24 V/m; Power Drift = -0.209 dB
Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.767 mW/g; SAR(10 g) = 0.549 mW/g
Maximum value of SAR (measured) = 0.812 mW/g



0 dB = 0.812mW/g

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Date/Time: 05/09/2009 16:35:09

BODY_CH190

DUT: HERO130;

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:4
Medium: BODY 900 Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.968 \text{ mho/m}$; $\epsilon_r = 55$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

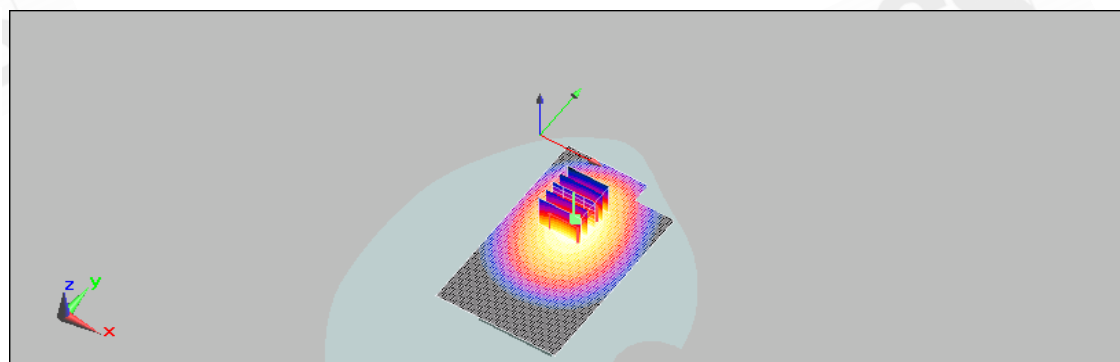
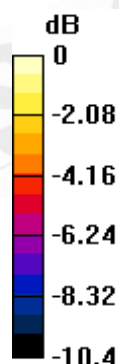
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.954 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 9.8 V/m; Power Drift = 0.014 dB
Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.894 mW/g; SAR(10 g) = 0.642 mW/g
Maximum value of SAR (measured) = 0.942 mW/g



0 dB = 0.942mW/g

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Date/Time: 05/09/2009 17:01:37

BODY_CH251

DUT: HERO130;

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:4
Medium: BODY 900 Medium parameters used: $f = 849$ MHz; $\sigma = 0.974$ mho/m; $\epsilon_r = 54.8$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

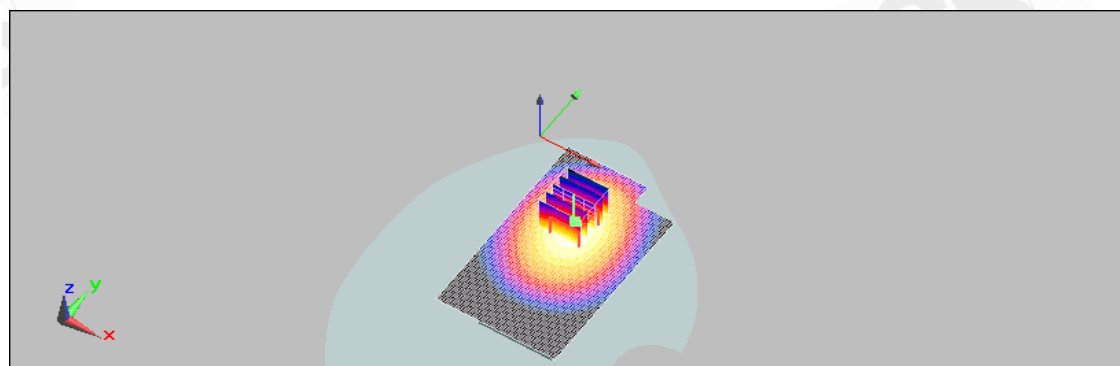
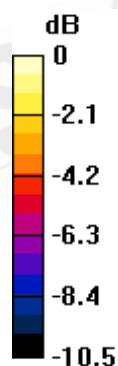
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.19 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.2 V/m; Power Drift = -0.120 dB
Peak SAR (extrapolated) = 1.51 W/kg

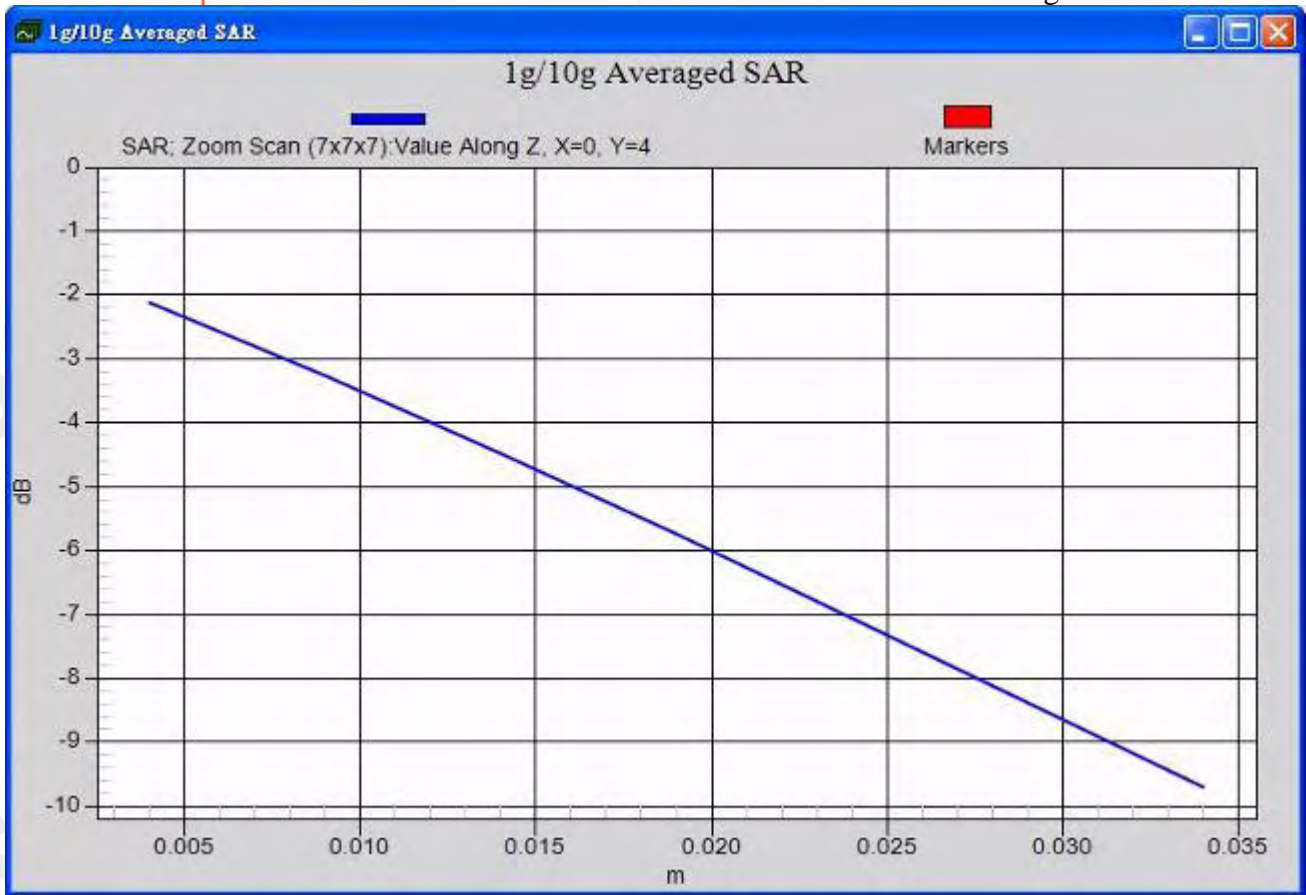
SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.800 mW/g
Maximum value of SAR (measured) = 1.18 mW/g



0 dB = 1.18mW/g

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Date/Time: 05/09/2009 22:57:47

BODY_CH251 repeated for EUT front to phantom

DUT: HERO130;

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:4
Medium: BODY 900 Medium parameters used: $f = 849$ MHz; $\sigma = 0.974$ mho/m; $\epsilon_r = 54.8$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

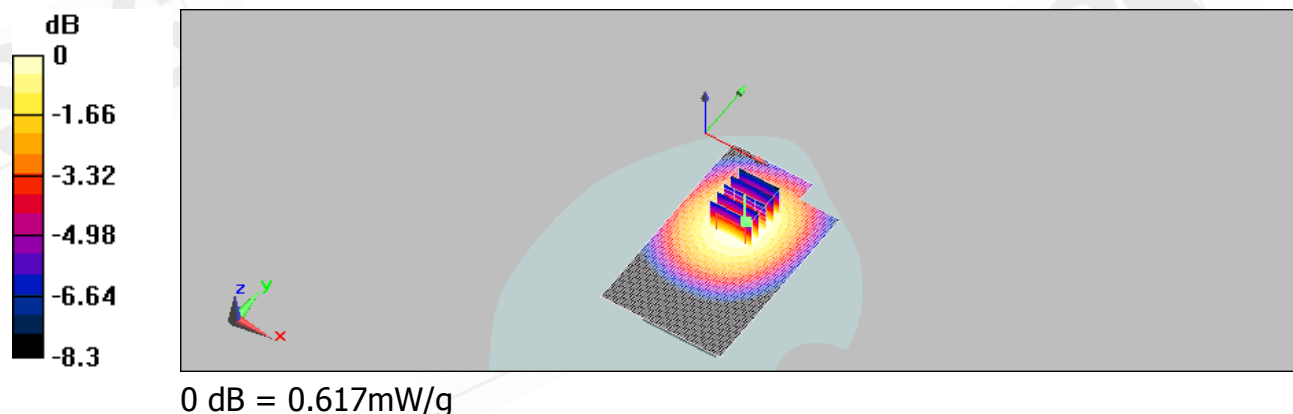
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.25 V/m; Power Drift = -0.111 dB
Peak SAR (extrapolated) = 0.751 W/kg

SAR(1 g) = 0.589 mW/g; SAR(10 g) = 0.446 mW/g
Maximum value of SAR (measured) = 0.617 mW/g



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Date/Time: 05/09/2009 23:25:48

BODY_CH251 repeated with Memory card

DUT: HERO130;

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:4
Medium: BODY 900 Medium parameters used: $f = 849$ MHz; $\sigma = 0.974$ mho/m; $\epsilon_r = 54.8$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

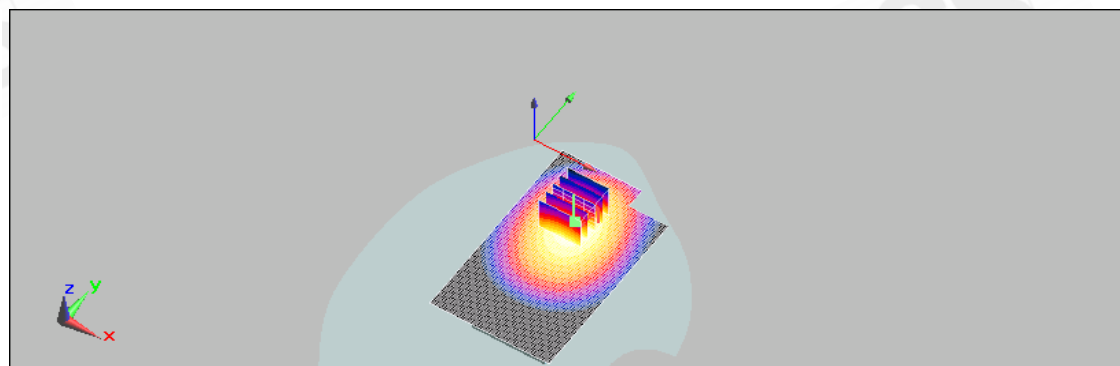
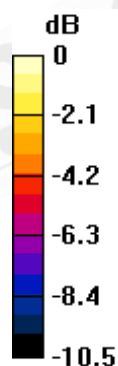
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.24 V/m; Power Drift = -0.025 dB
Peak SAR (extrapolated) = 1.3 W/kg

SAR(1 g) = 0.934 mW/g; SAR(10 g) = 0.668 mW/g
Maximum value of SAR (measured) = 0.991 mW/g



0 dB = 0.991mW/g

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Date/Time: 05/09/2009 23:52:12

BODY_CH251 repeated with Cotron headset

DUT: HERO130;

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:4
Medium: BODY 900 Medium parameters used: $f = 849$ MHz; $\sigma = 0.974$ mho/m; $\epsilon_r = 54.8$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

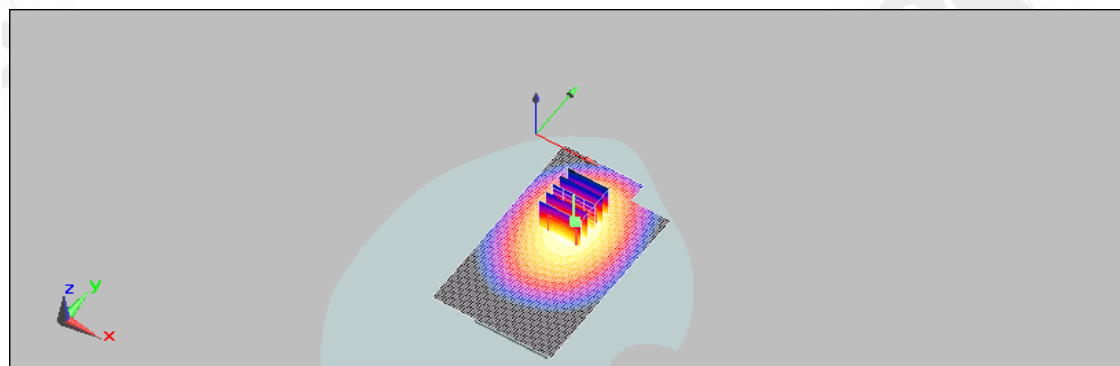
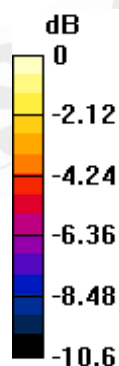
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.898 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10 V/m; Power Drift = 0.066 dB
Peak SAR (extrapolated) = 1.18 W/kg

SAR(1 g) = 0.842 mW/g; SAR(10 g) = 0.598 mW/g
Maximum value of SAR (measured) = 0.894 mW/g



0 dB = 0.894mW/g

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Date/Time: 05/10/2009 00:18:13

BODY_CH251 repeated with Merry headset

DUT: HERO130;

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:4
Medium: BODY 900 Medium parameters used: $f = 849$ MHz; $\sigma = 0.974$ mho/m; $\epsilon_r = 54.8$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

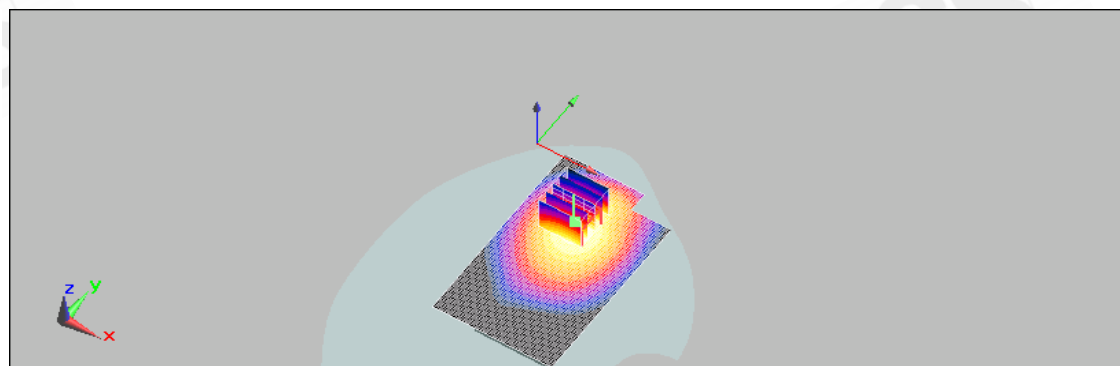
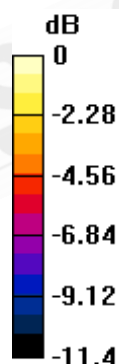
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.637 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.86 V/m; Power Drift = -0.130 dB
Peak SAR (extrapolated) = 0.873 W/kg

SAR(1 g) = 0.598 mW/g; SAR(10 g) = 0.409 mW/g
Maximum value of SAR (measured) = 0.638 mW/g



0 dB = 0.638mW/g

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Date/Time: 05/10/2009 00:45:24

BODY_CH251 repeated with HTE battery

DUT: HERO130;

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:4
Medium: BODY 900 Medium parameters used: $f = 849$ MHz; $\sigma = 0.974$ mho/m; $\epsilon_r = 54.8$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

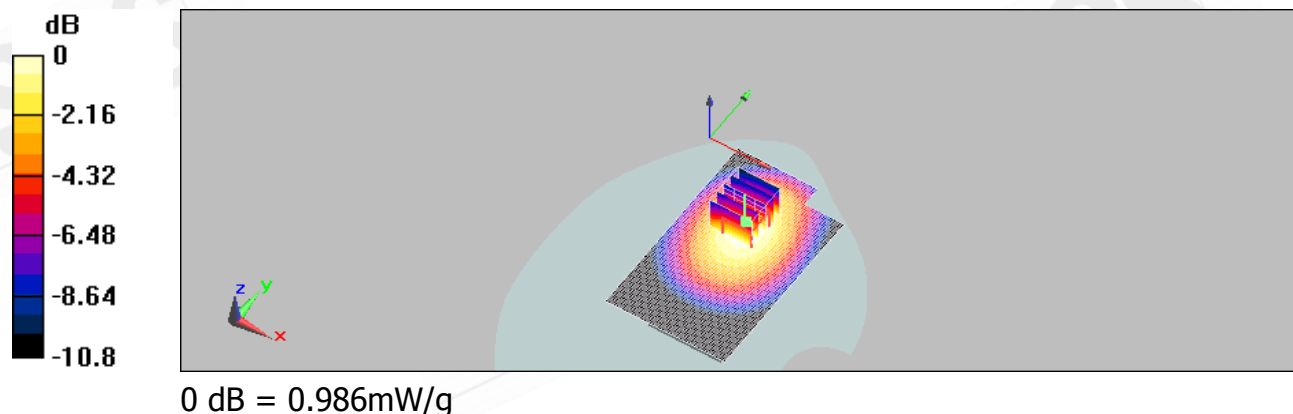
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.993 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.42 V/m; Power Drift = 0.040 dB
Peak SAR (extrapolated) = 1.31 W/kg

SAR(1 g) = 0.937 mW/g; SAR(10 g) = 0.666 mW/g
Maximum value of SAR (measured) = 0.986 mW/g



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Date/Time: 05/10/2009 01:11:28

BODY_CH251 repeated with Formosa battery

DUT: HERO130;

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:4
Medium: BODY 900 Medium parameters used: $f = 849$ MHz; $\sigma = 0.974$ mho/m; $\epsilon_r = 54.8$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

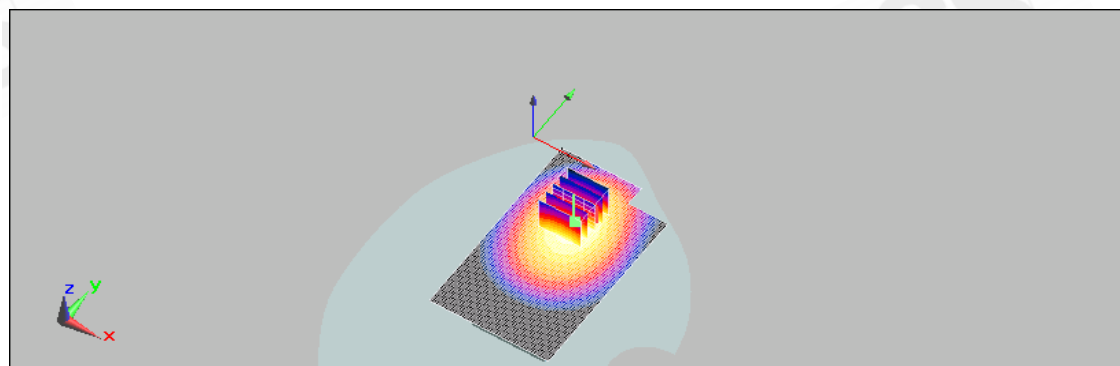
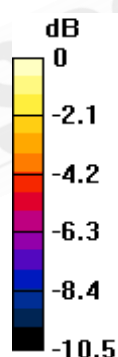
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.04 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.85 V/m; Power Drift = -0.087 dB
Peak SAR (extrapolated) = 1.35 W/kg

SAR(1 g) = 0.975 mW/g; SAR(10 g) = 0.694 mW/g
Maximum value of SAR (measured) = 1.04 mW/g



0 dB = 1.04mW/g

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Date/Time: 05/09/2009 17:28:29

BODY_CH128_repeated with EGPRS mode

DUT: HERO130;

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:4
Medium: BODY 900 Medium parameters used (interpolated): $f = 824.2 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 55.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

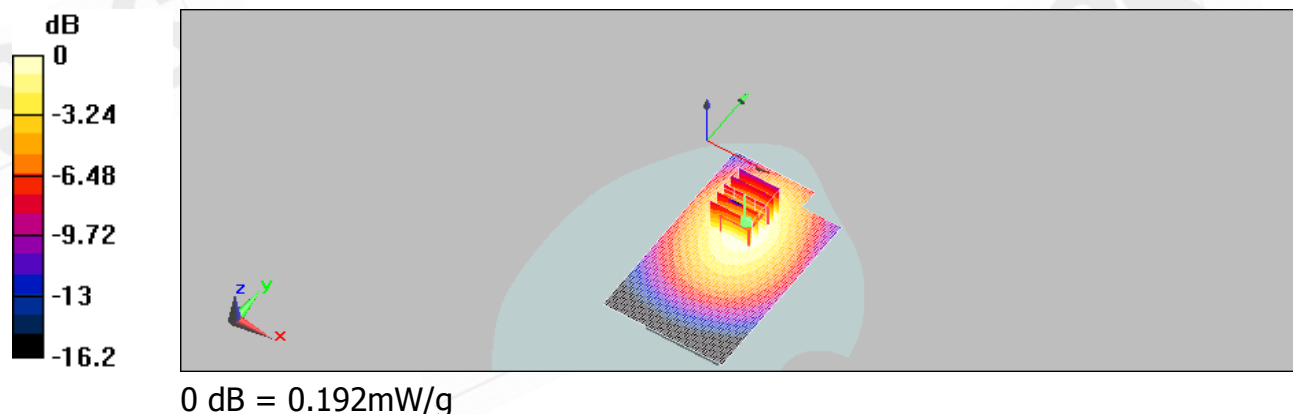
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.192 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 3.91 V/m; Power Drift = 0.085 dB
Peak SAR (extrapolated) = 0.252 W/kg

SAR(1 g) = 0.181 mW/g; SAR(10 g) = 0.130 mW/g
Maximum value of SAR (measured) = 0.192 mW/g



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Date/Time: 05/09/2009 17:57:26

BODY_CH190_repeated with EGPRS mode

DUT: HERO130;

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:4
Medium: BODY 900 Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.968 \text{ mho/m}$; $\epsilon_r = 55$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

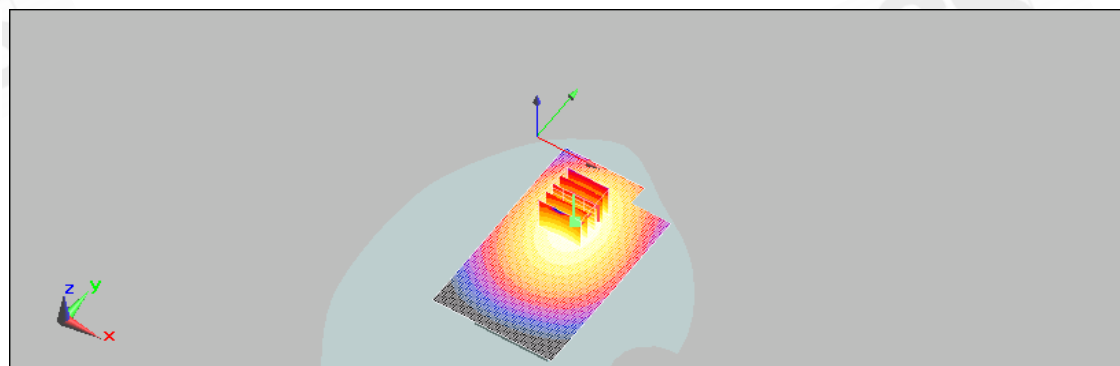
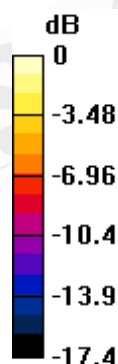
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.235 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 4.48 V/m; Power Drift = 0.013 dB
Peak SAR (extrapolated) = 0.310 W/kg

SAR(1 g) = 0.221 mW/g; SAR(10 g) = 0.158 mW/g
Maximum value of SAR (measured) = 0.233 mW/g



0 dB = 0.233mW/g

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Date/Time: 05/09/2009 18:23:35

BODY_CH251_repeated with EGPRS mode

DUT: HERO130;

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:4
Medium: BODY 900 Medium parameters used: $f = 849$ MHz; $\sigma = 0.974$ mho/m; $\epsilon_r = 54.8$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

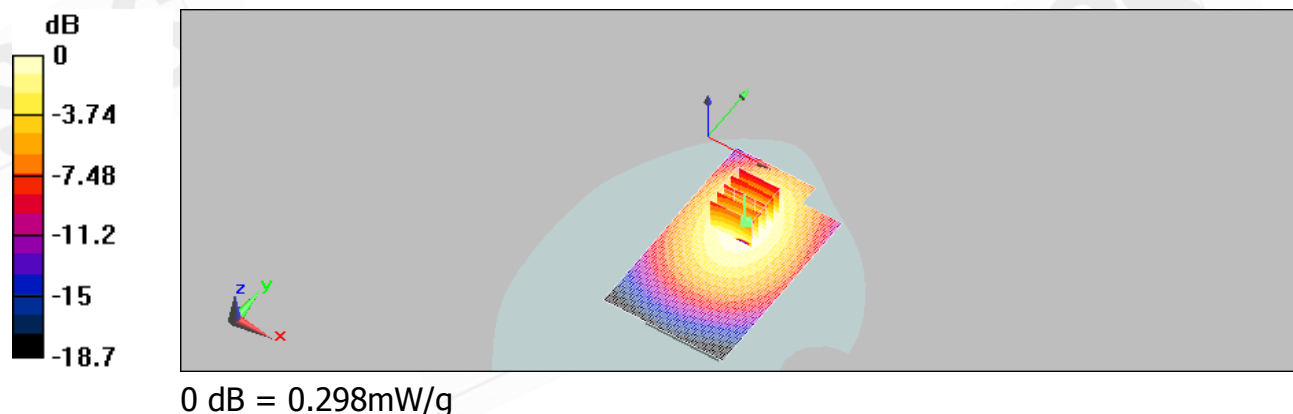
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.296 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.11 V/m; Power Drift = -0.143 dB
Peak SAR (extrapolated) = 0.424 W/kg

SAR(1 g) = 0.292 mW/g; SAR(10 g) = 0.197 mW/g
Maximum value of SAR (measured) = 0.298 mW/g



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Date/Time: 05/06/2009 13:41:47

RE_Cheek_CH512

DUT: HERO130;

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3
 Medium: Head 1900 Medium parameters used (interpolated): $f = 1850.2 \text{ MHz}$; $\sigma = 1.42 \text{ mho/m}$; $\epsilon_r = 38.6$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.97, 4.97, 4.97); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 0.715 mW/g

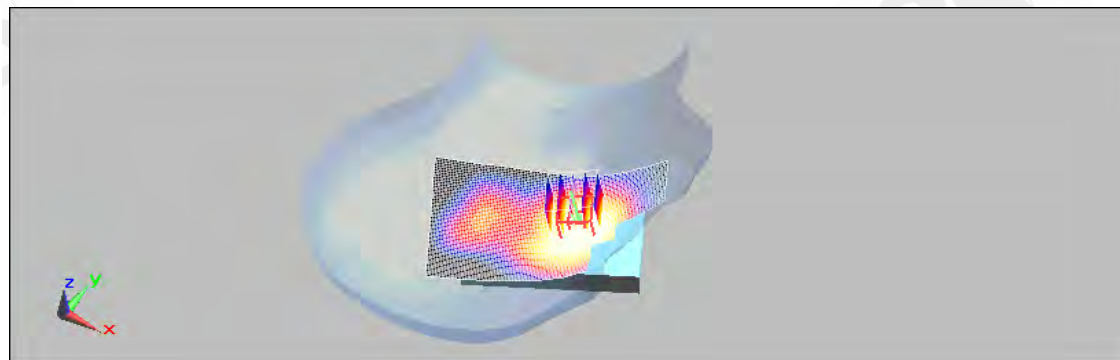
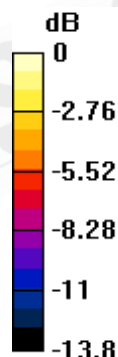
RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.3 V/m; Power Drift = 0.020 dB

Peak SAR (extrapolated) = 0.835 W/kg

SAR(1 g) = 0.616 mW/g; SAR(10 g) = 0.422 mW/g

Maximum value of SAR (measured) = 0.662 mW/g



0 dB = 0.662mW/g

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Date/Time: 05/06/2009 14:08:00

RE_Cheek_CH661

DUT: HERO130;

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: Head 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 38.4$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.97, 4.97, 4.97); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.856 mW/g

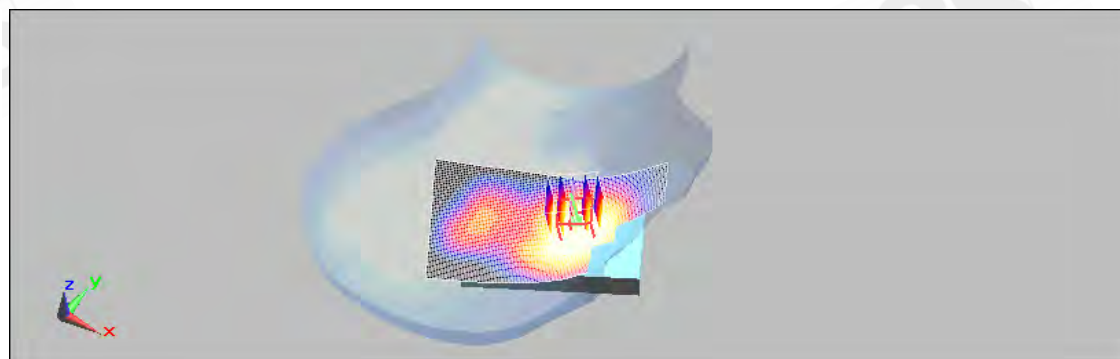
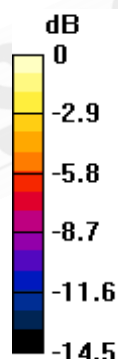
RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13 V/m; Power Drift = 0.080 dB

Peak SAR (extrapolated) = 1 W/kg

SAR(1 g) = 0.725 mW/g; SAR(10 g) = 0.491 mW/g

Maximum value of SAR (measured) = 0.784 mW/g



0 dB = 0.784mW/g

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Date/Time: 05/06/2009 14:36:19

RE_Cheek_CH810

DUT: HERO130;

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3
 Medium: Head 1900 Medium parameters used: $f = 1910$ MHz; $\sigma = 1.48$ mho/m; $\epsilon_r = 38.1$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.97, 4.97, 4.97); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 0.850 mW/g

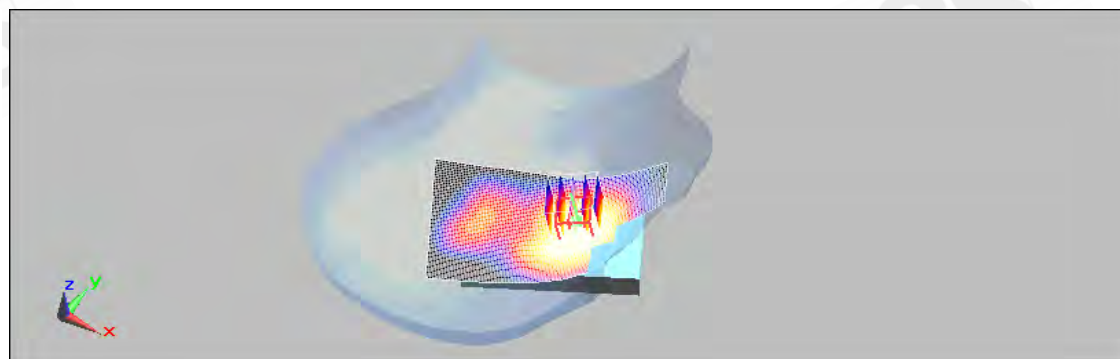
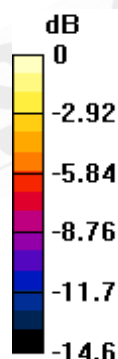
RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13 V/m; Power Drift = 0.047 dB

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.721 mW/g; SAR(10 g) = 0.486 mW/g

Maximum value of SAR (measured) = 0.783 mW/g



0 dB = 0.783mW/g

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Date/Time: 05/06/2009 16:25:00

LE_Cheek_CH512

DUT: HERO130;

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3
 Medium: Head 1900 Medium parameters used (interpolated): $f = 1850.2 \text{ MHz}$; $\sigma = 1.42 \text{ mho/m}$; $\epsilon_r = 38.6$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.97, 4.97, 4.97); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.972 mW/g

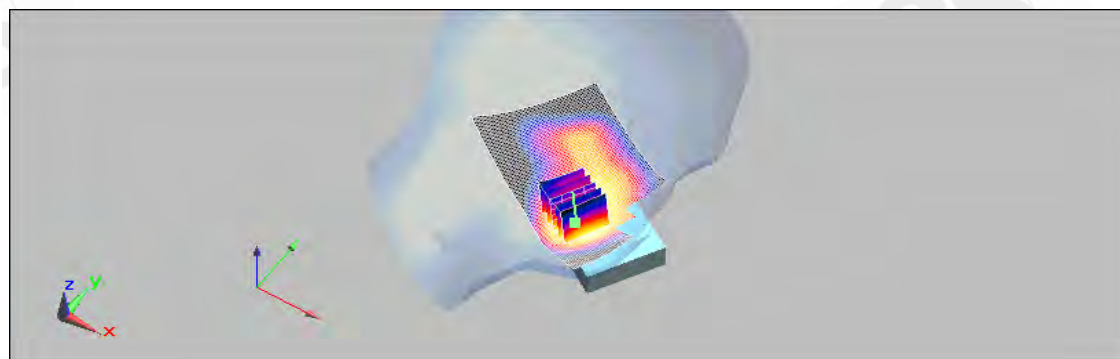
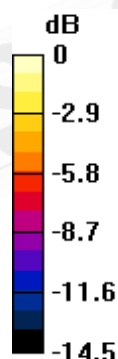
LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.2 V/m; Power Drift = 0.032 dB

Peak SAR (extrapolated) = 1.28 W/kg

SAR(1 g) = 0.855 mW/g; SAR(10 g) = 0.548 mW/g

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



0 dB = 0.916mW/g

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Date/Time: 05/06/2009 16:54:48

LE_Cheek_CH661

DUT: HERO130;

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: Head 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 38.4$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.97, 4.97, 4.97); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.08 mW/g

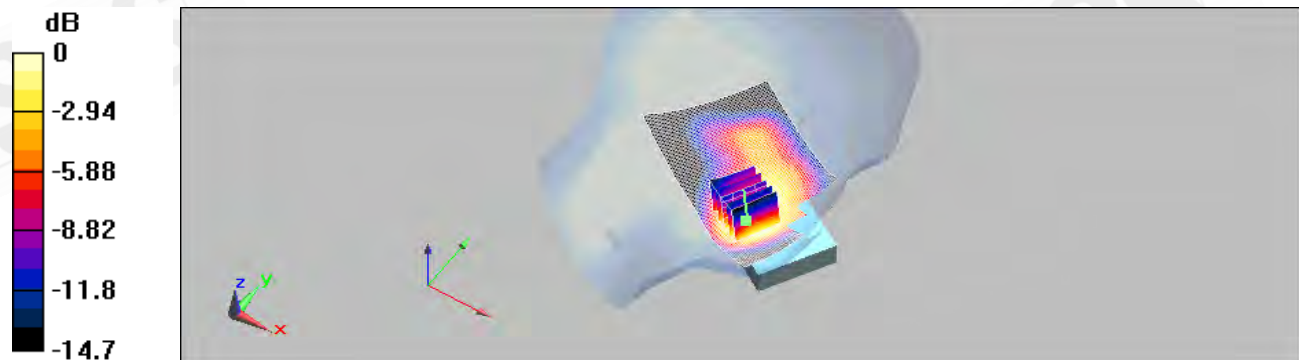
LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.6 V/m; Power Drift = -0.00587 dB

Peak SAR (extrapolated) = 1.43 W/kg

SAR(1 g) = 0.942 mW/g; SAR(10 g) = 0.598 mW/g

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



0 dB = 1.01mW/g

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Date/Time: 05/06/2009 17:21:00

LE_Cheek_CH810

DUT: HERO130;

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3
 Medium: Head 1900 Medium parameters used: $f = 1910$ MHz; $\sigma = 1.48$ mho/m; $\epsilon_r = 38.1$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.97, 4.97, 4.97); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 1.05 mW/g

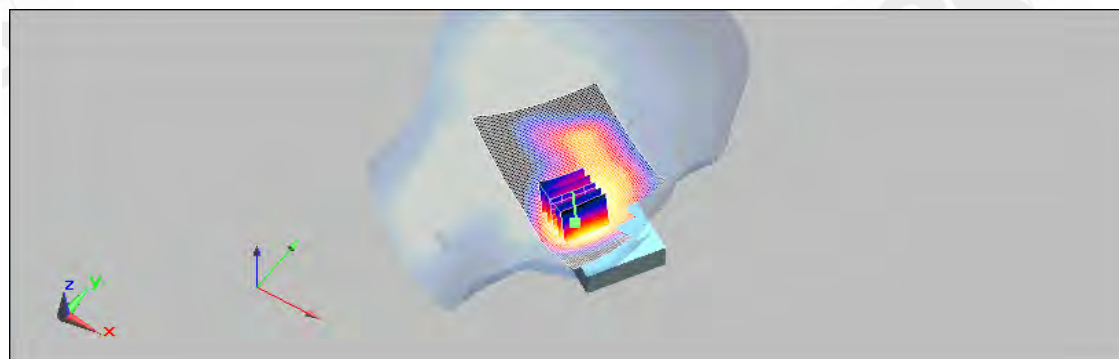
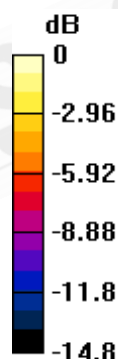
LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.3 V/m; Power Drift = -0.028 dB

Peak SAR (extrapolated) = 1.43 W/kg

SAR(1 g) = 0.918 mW/g; SAR(10 g) = 0.577 mW/g

Maximum value of SAR (measured) = 0.983 mW/g



0 dB = 0.983mW/g

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Date/Time: 05/06/2009 15:02:45

RE_Tilt_CH512

DUT: HERO130;

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3
Medium: Head 1900 Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 38.6$; $\rho = 1000$ kg/m³
Phantom section: Right Section

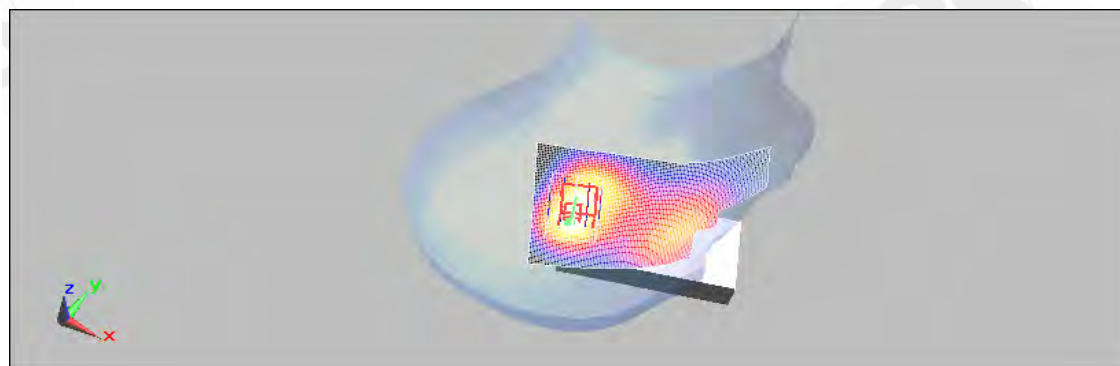
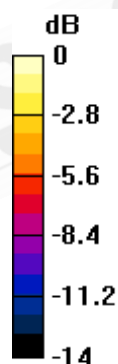
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.97, 4.97, 4.97); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.503 mW/g

RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.8 V/m; Power Drift = -0.013 dB
Peak SAR (extrapolated) = 0.716 W/kg

SAR(1 g) = 0.443 mW/g; SAR(10 g) = 0.265 mW/g
Maximum value of SAR (measured) = 0.482 mW/g



0 dB = 0.482mW/g

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Date/Time: 05/06/2009 15:30:13

RE_Tilt_CH661

DUT: HERO130;

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: Head 1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.44 \text{ mho/m}$; $\epsilon_r = 38.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.97, 4.97, 4.97); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Tilt/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.541 mW/g

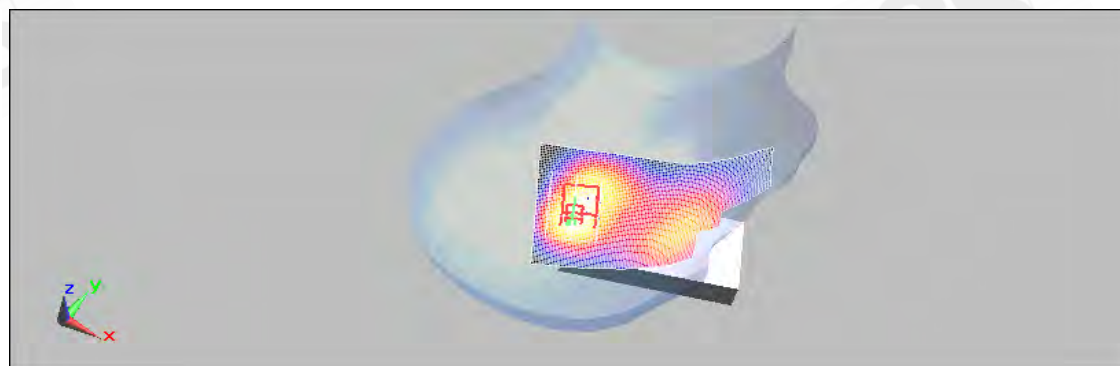
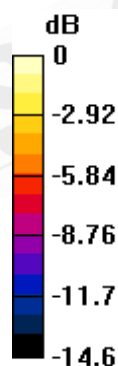
RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 19.6 V/m; Power Drift = 0.00861 dB

Peak SAR (extrapolated) = 0.780 W/kg

SAR(1 g) = 0.475 mW/g; SAR(10 g) = 0.279 mW/g

Maximum value of SAR (measured) = 0.524 mW/g



0 dB = 0.524mW/g

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Date/Time: 05/06/2009 15:59:51

RE_Tilt_CH810

DUT: HERO130;

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3
 Medium: Head 1900 Medium parameters used: $f = 1910 \text{ MHz}$; $\sigma = 1.48 \text{ mho/m}$; $\epsilon_r = 38.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.97, 4.97, 4.97); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Tilt/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.544 mW/g

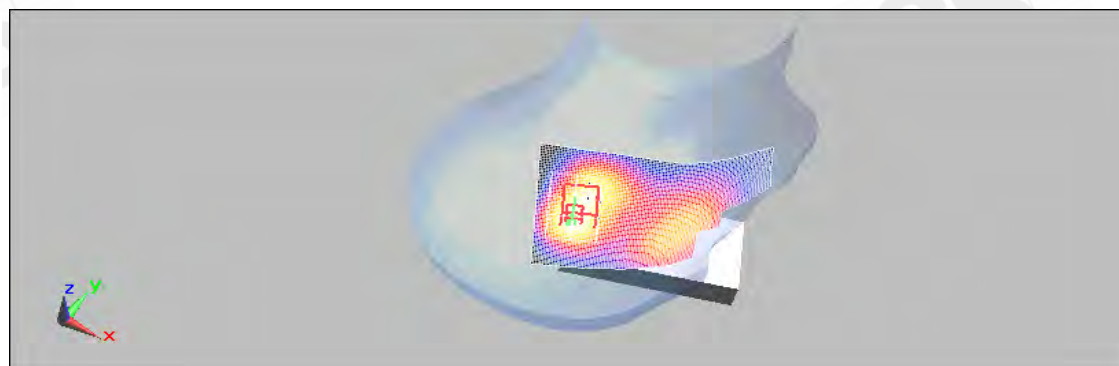
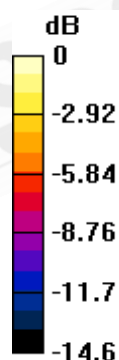
RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 19.2 V/m; Power Drift = 0.035 dB

Peak SAR (extrapolated) = 0.787 W/kg

SAR(1 g) = 0.471 mW/g; SAR(10 g) = 0.273 mW/g

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



0 dB = 0.523mW/g

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Date/Time: 05/06/2009 17:49:17

LE_Tilt_CH512

DUT: HERO130;

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3
 Medium: Head 1900 Medium parameters used (interpolated): $f = 1850.2 \text{ MHz}$; $\sigma = 1.42 \text{ mho/m}$; $\epsilon_r = 38.6$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Left Section

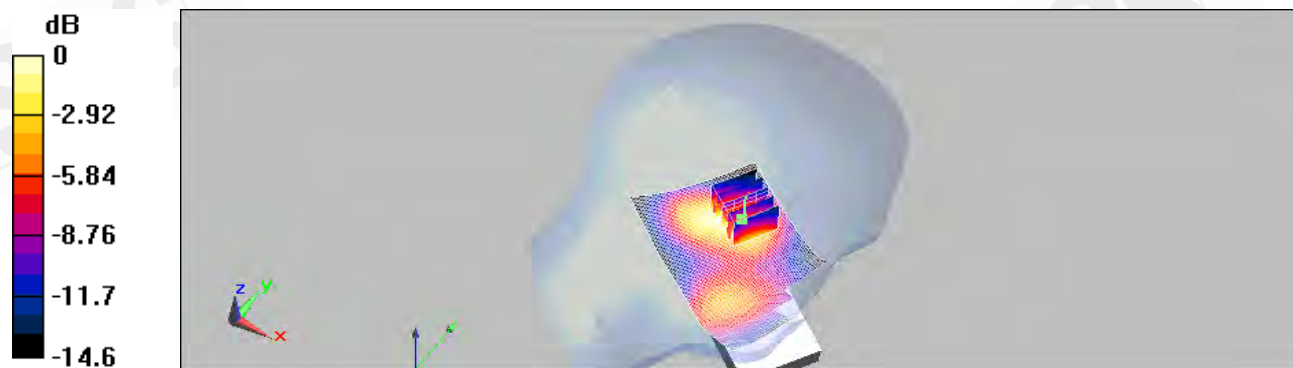
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.97, 4.97, 4.97); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Tilt/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.561 mW/g

LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 17 V/m; Power Drift = 0.034 dB
 Peak SAR (extrapolated) = 0.766 W/kg

SAR(1 g) = 0.473 mW/g; SAR(10 g) = 0.283 mW/g
 Maximum value of SAR (measured) = 0.508 mW/g



0 dB = 0.508mW/g

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Date/Time: 05/06/2009 18:16:13

LE_Tilt_CH661

DUT: HERO130;

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3
Medium: Head 1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.44 \text{ mho/m}$; $\epsilon_r = 38.4$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

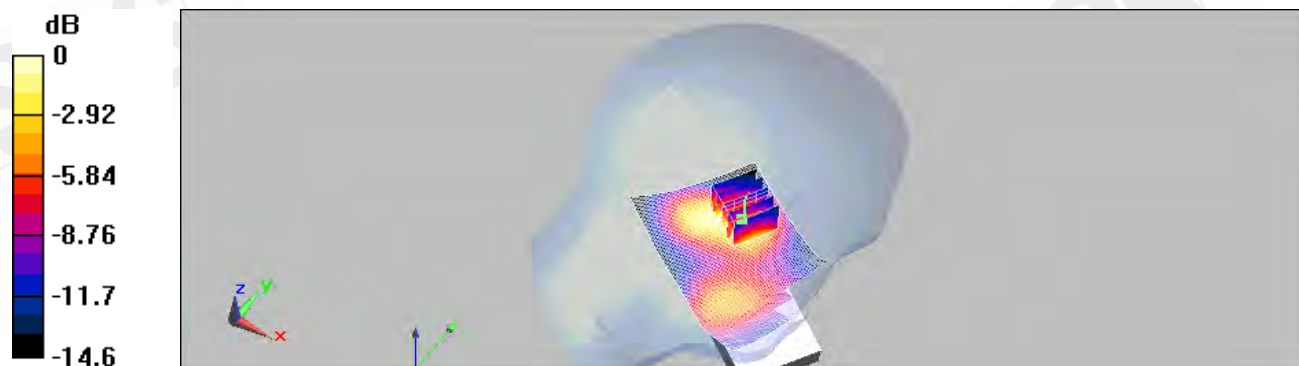
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.97, 4.97, 4.97); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 17.9 V/m; Power Drift = -0.012 dB
Peak SAR (extrapolated) = 0.864 W/kg

SAR(1 g) = 0.527 mW/g; SAR(10 g) = 0.312 mW/g
Maximum value of SAR (measured) = 0.563 mW/g



0 dB = 0.563mW/g

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Date/Time: 05/06/2009 18:44:30

LE_Tilt_CH810

DUT: HERO130;

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3
 Medium: Head 1900 Medium parameters used: $f = 1910$ MHz; $\sigma = 1.48$ mho/m; $\epsilon_r = 38.1$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.97, 4.97, 4.97); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 0.646 mW/g

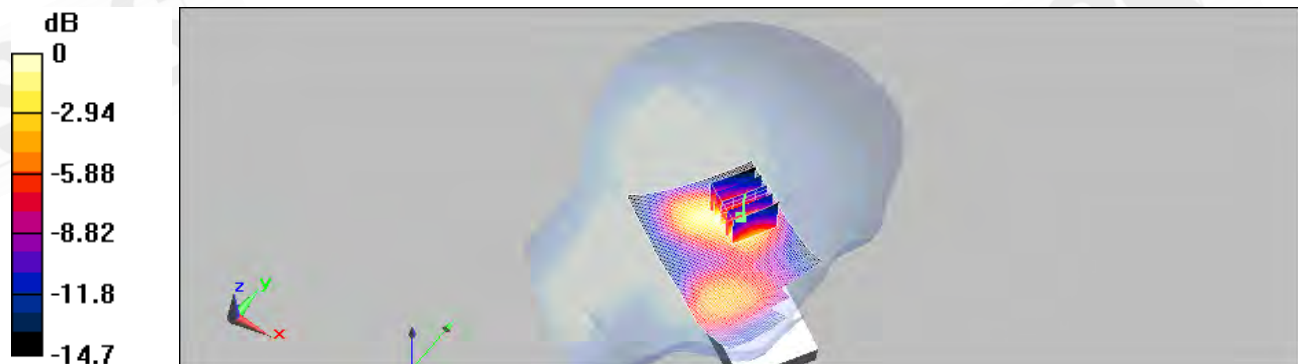
LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.7 V/m; Power Drift = 0.031 dB

Peak SAR (extrapolated) = 0.921 W/kg

SAR(1 g) = 0.546 mW/g; SAR(10 g) = 0.317 mW/g

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



0 dB = 0.580mW/g

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Date/Time: 05/09/2009 07:45:53

BODY_CH512

DUT: HERO130;

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:4
Medium: BODY 1900 Medium parameters used (interpolated): $f = 1850.2 \text{ MHz}$; $\sigma = 1.51 \text{ mho/m}$; $\epsilon_r = 52.9$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

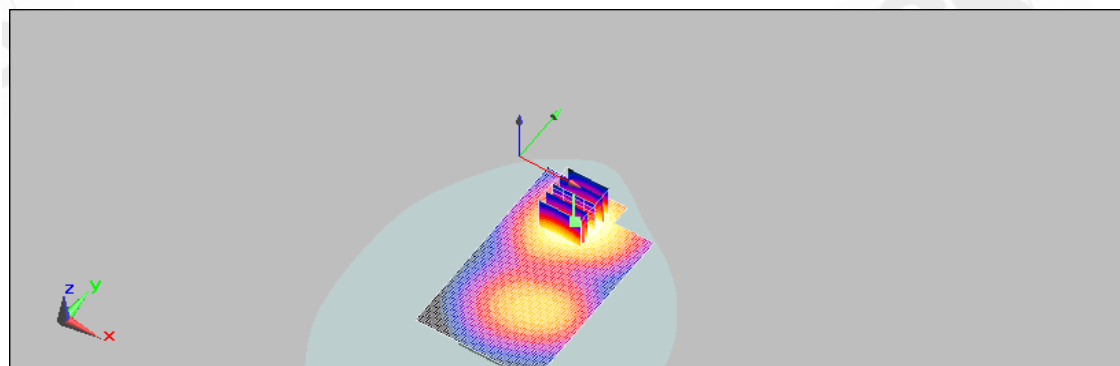
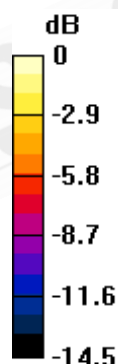
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.456 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 8.46 V/m; Power Drift = -0.099 dB
Peak SAR (extrapolated) = 0.660 W/kg

SAR(1 g) = 0.418 mW/g; SAR(10 g) = 0.259 mW/g
Maximum value of SAR (measured) = 0.446 mW/g



0 dB = 0.446mW/g

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Date/Time: 05/09/2009 08:12:52

BODY_CH661

DUT: HERO130;

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:4
 Medium: BODY 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

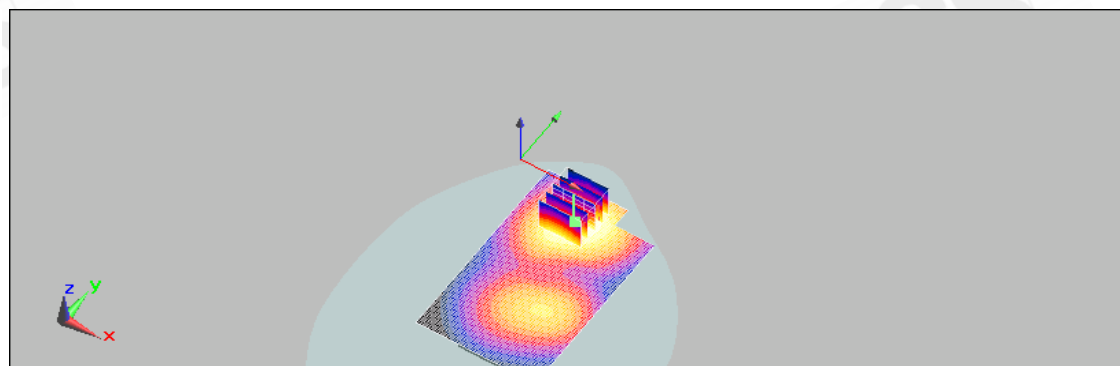
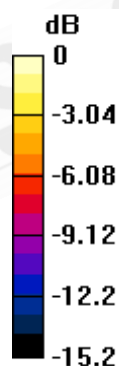
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.479 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 8.13 V/m; Power Drift = 0.020 dB
 Peak SAR (extrapolated) = 0.707 W/kg

SAR(1 g) = 0.436 mW/g; SAR(10 g) = 0.268 mW/g
 Maximum value of SAR (measured) = 0.469 mW/g



0 dB = 0.469mW/g

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Date/Time: 05/09/2009 08:38:08

BODY_CH810

DUT: HERO130;

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:4
 Medium: BODY 1900 Medium parameters used: $f = 1910$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

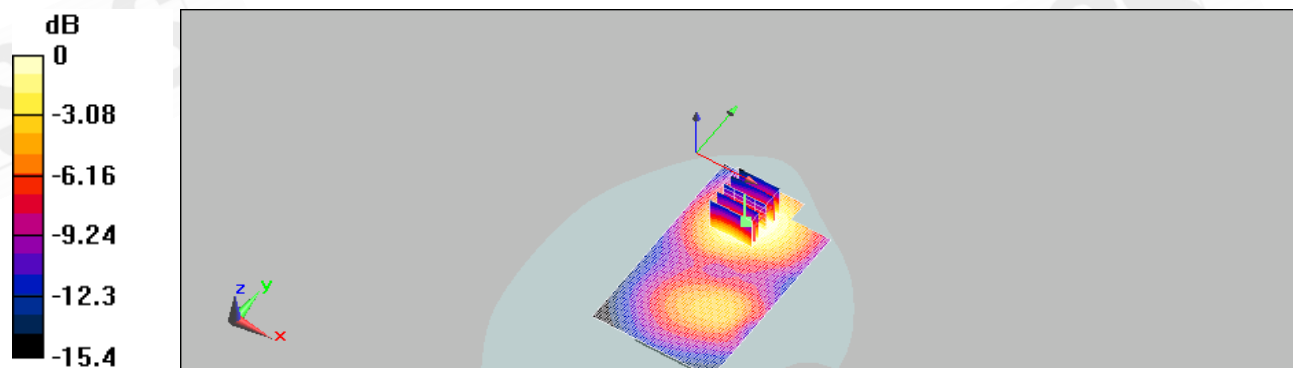
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 0.409 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 7.73 V/m; Power Drift = 0.130 dB
 Peak SAR (extrapolated) = 0.605 W/kg

SAR(1 g) = 0.376 mW/g; SAR(10 g) = 0.233 mW/g
 Maximum value of SAR (measured) = 0.399 mW/g



0 dB = 0.399mW/g

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Date/Time: 05/09/2009 09:07:10

BODY_CH512 repeated with EGPRS mode

DUT: HERO130;

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:4
Medium: BODY 1900 Medium parameters used (interpolated): $f = 1850.2 \text{ MHz}$; $\sigma = 1.51 \text{ mho/m}$; $\epsilon_r = 52.9$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

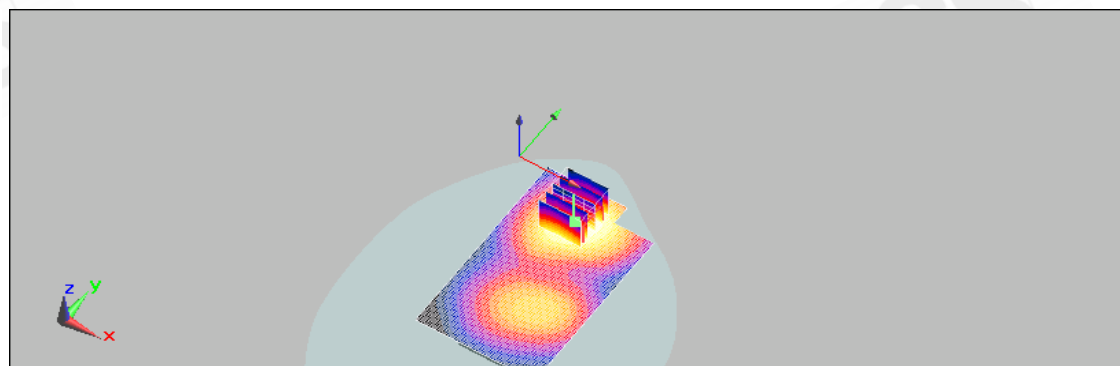
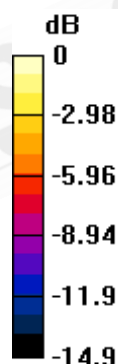
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.187 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 5.36 V/m; Power Drift = 0.037 dB
Peak SAR (extrapolated) = 0.279 W/kg

SAR(1 g) = 0.173 mW/g; SAR(10 g) = 0.107 mW/g
Maximum value of SAR (measured) = 0.186 mW/g



0 dB = 0.186mW/g

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Date/Time: 05/09/2009 09:34:12

BODY_CH661 repeated with EGPRS mode

DUT: HERO130;

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:4
Medium: BODY 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

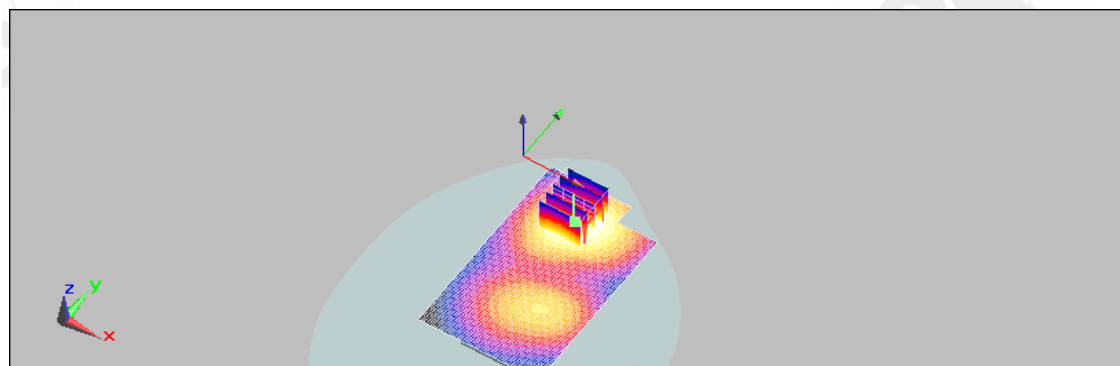
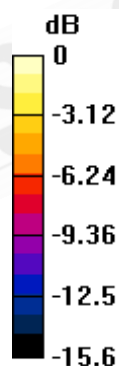
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.194 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.47 V/m; Power Drift = 0.060 dB
Peak SAR (extrapolated) = 0.293 W/kg

SAR(1 g) = 0.179 mW/g; SAR(10 g) = 0.111 mW/g
Maximum value of SAR (measured) = 0.190 mW/g



0 dB = 0.190mW/g

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Date/Time: 05/09/2009 10:01:44

BODY_CH810 repeated with EGPRS mode

DUT: HERO130;

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:4
Medium: BODY 1900 Medium parameters used: $f = 1910$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

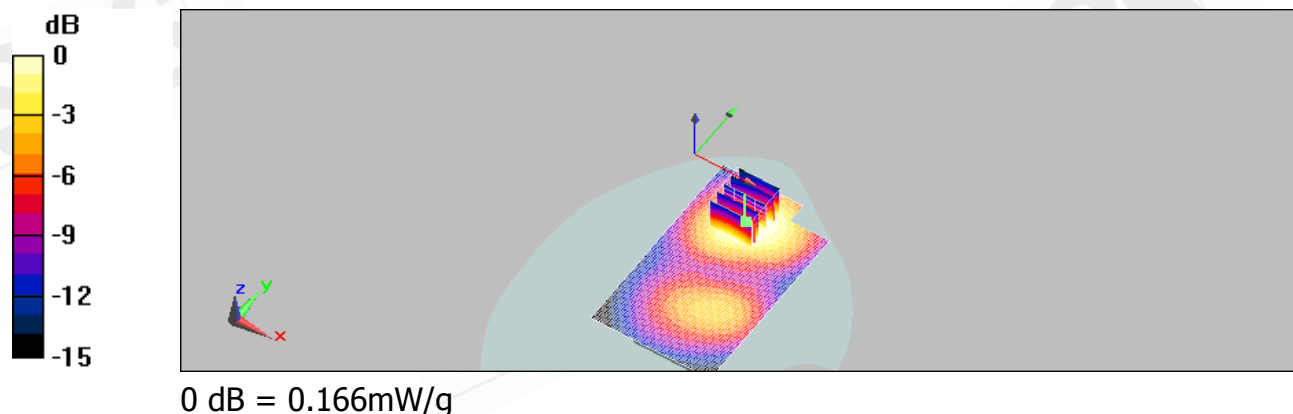
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.172 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.96 V/m; Power Drift = 0.186 dB
Peak SAR (extrapolated) = 0.252 W/kg

SAR(1 g) = 0.158 mW/g; SAR(10 g) = 0.098 mW/g
Maximum value of SAR (measured) = 0.166 mW/g



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Date/Time: 05/06/2009 19:12:37

RE_Cheek_CH9262

DUT: HERO130;

Communication System: WCDMA B2; Frequency: 1852.4 MHz; Duty Cycle: 1:1
Medium: Head 1900 Medium parameters used (interpolated): $f = 1852.4 \text{ MHz}$; $\sigma = 1.44 \text{ mho/m}$; $\epsilon_r = 38.5$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.97, 4.97, 4.97); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.16 mW/g

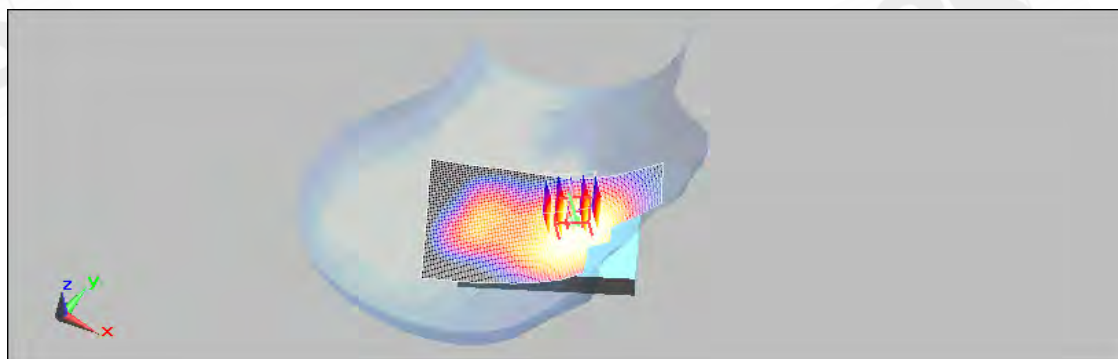
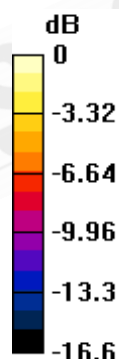
RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.7 V/m; Power Drift = 0.042 dB

Peak SAR (extrapolated) = 1.44 W/kg

SAR(1 g) = 0.997 mW/g; SAR(10 g) = 0.660 mW/g

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



0 dB = 1.09mW/g

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Date/Time: 05/06/2009 19:34:22

RE_Cheek_CH9400

DUT: HERO130;

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

Medium: Head 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 38.4$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.97, 4.97, 4.97); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.31 mW/g

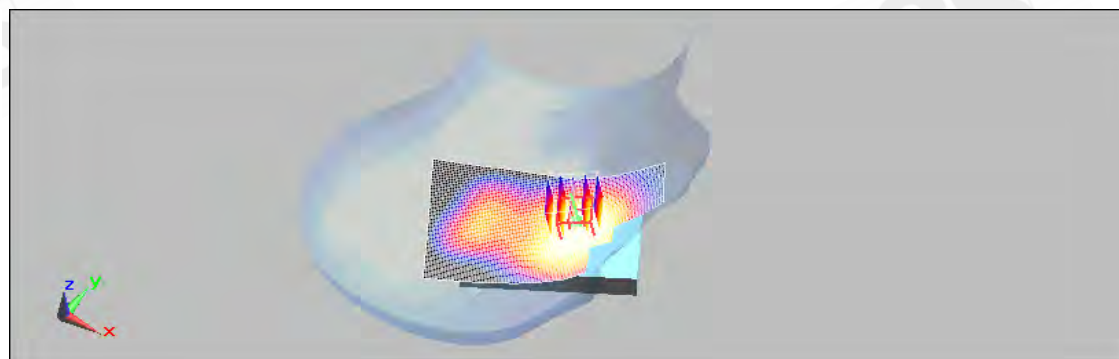
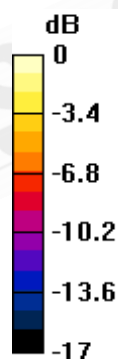
RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.5 V/m; Power Drift = -0.117 dB

Peak SAR (extrapolated) = 1.62 W/kg

SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.728 mW/g

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



0 dB = 1.21mW/g

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Date/Time: 05/06/2009 20:02:03

RE_Cheek_CH9888

DUT: HERO130;

Communication System: WCDMA B2; Frequency: 1907.6 MHz; Duty Cycle: 1:1
 Medium: Head 1900 Medium parameters used: $f = 1908$ MHz; $\sigma = 1.49$ mho/m; $\epsilon_r = 38.1$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.97, 4.97, 4.97); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 1.37 mW/g

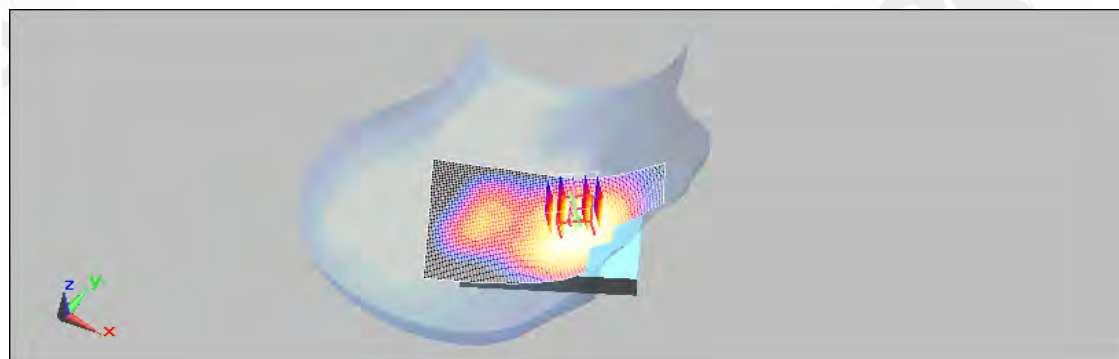
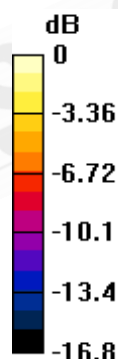
RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.4 V/m; Power Drift = 0.035 dB

Peak SAR (extrapolated) = 1.77 W/kg

SAR(1 g) = 1.18 mW/g; SAR(10 g) = 0.768 mW/g

Maximum value of SAR (measured) = 1.28 mW/g



0 dB = 1.28mW/g

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Date/Time: 05/06/2009 21:53:55

LE_Cheek_CH9262

DUT: HERO130;

Communication System: WCDMA B2; Frequency: 1852.4 MHz; Duty Cycle: 1:1
Medium: Head 1900 Medium parameters used (interpolated): $f = 1852.4$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 38.5$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.97, 4.97, 4.97); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.53 mW/g

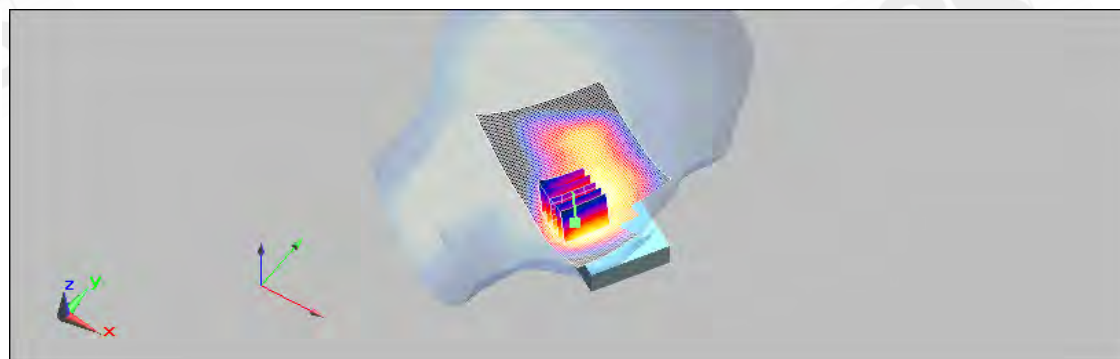
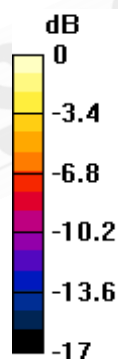
LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.8 V/m; Power Drift = -0.00747 dB

Peak SAR (extrapolated) = 2.09 W/kg

SAR(1 g) = 1.35 mW/g; SAR(10 g) = 0.850 mW/g

Maximum value of SAR (measured) = 1.46 mW/g



0 dB = 1.46mW/g

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Date/Time: 05/06/2009 22:19:51

LE_Cheek_CH9400

DUT: HERO130;

Communication System: WCDMA B2; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: Head 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 38.4$; $\rho = 1000$ kg/m³
Phantom section: Left Section

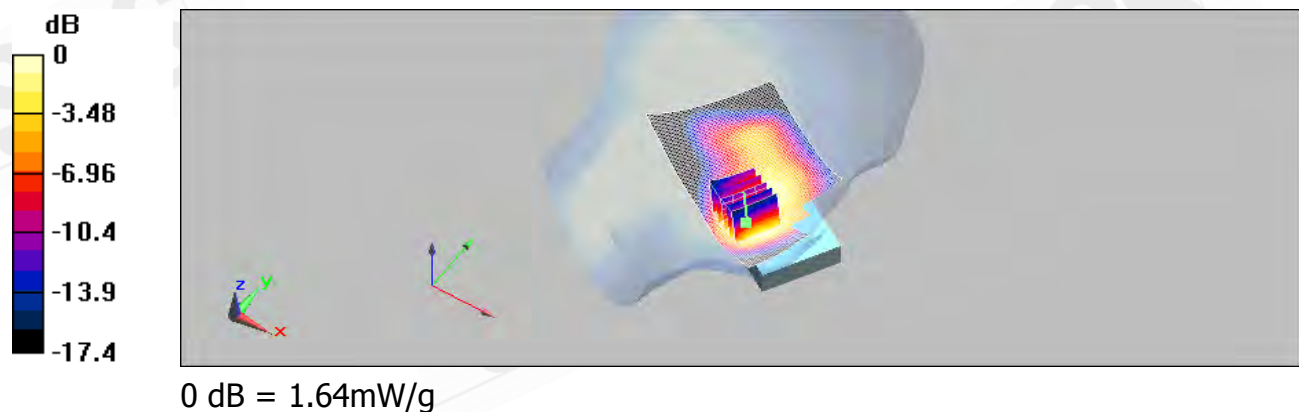
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.97, 4.97, 4.97); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.72 mW/g

LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.7 V/m; Power Drift = -0.00287 dB
Peak SAR (extrapolated) = 2.34 W/kg

SAR(1 g) = 1.51 mW/g; SAR(10 g) = 0.944 mW/g
Maximum value of SAR (measured) = 1.64 mW/g



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Date/Time: 05/06/2009 22:46:25

LE_Cheek_CH9538

DUT: HERO130;

Communication System: WCDMA B2; Frequency: 1907.6 MHz; Duty Cycle: 1:1
Medium: Head 1900 Medium parameters used: $f = 1908$ MHz; $\sigma = 1.49$ mho/m; $\epsilon_r = 38.1$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.97, 4.97, 4.97); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.73 mW/g

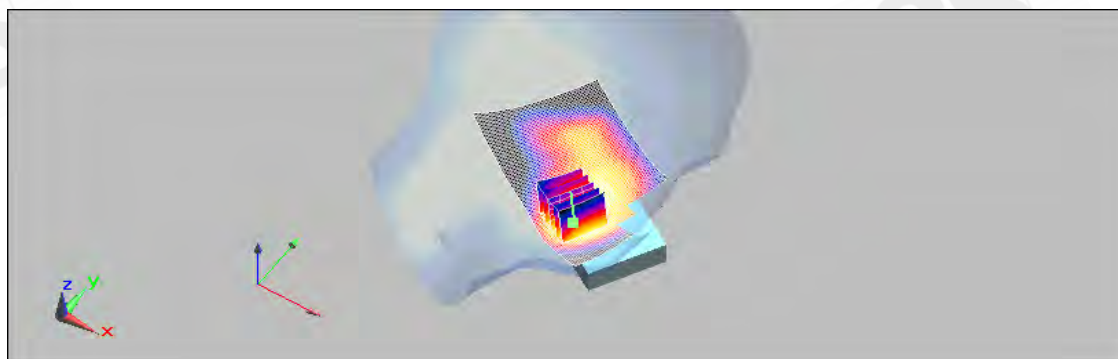
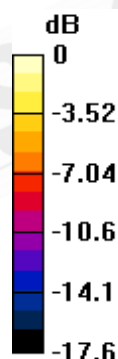
LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.1 V/m; Power Drift = 0.022 dB

Peak SAR (extrapolated) = 2.41 W/kg

SAR(1 g) = 1.52 mW/g; SAR(10 g) = 0.949 mW/g

Maximum value of SAR (measured) = 1.65 mW/g



0 dB = 1.65mW/g

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Date/Time: 05/07/2009 00:21:14

LE_Cheek_CH9538 repeated with Memory card

DUT: HERO130;

Communication System: WCDMA B2; Frequency: 1907.6 MHz; Duty Cycle: 1:1
Medium: Head 1900 Medium parameters used: $f = 1908$ MHz; $\sigma = 1.49$ mho/m; $\epsilon_r = 38.1$; $\rho = 1000$ kg/m³
Phantom section: Left Section

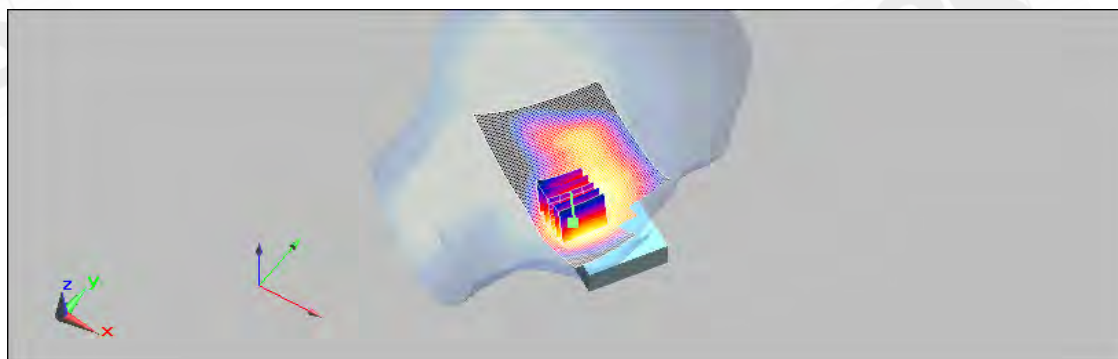
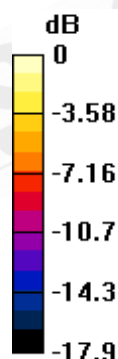
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.97, 4.97, 4.97); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.78 mW/g

LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.9 V/m; Power Drift = 0.130 dB
Peak SAR (extrapolated) = 2.5 W/kg

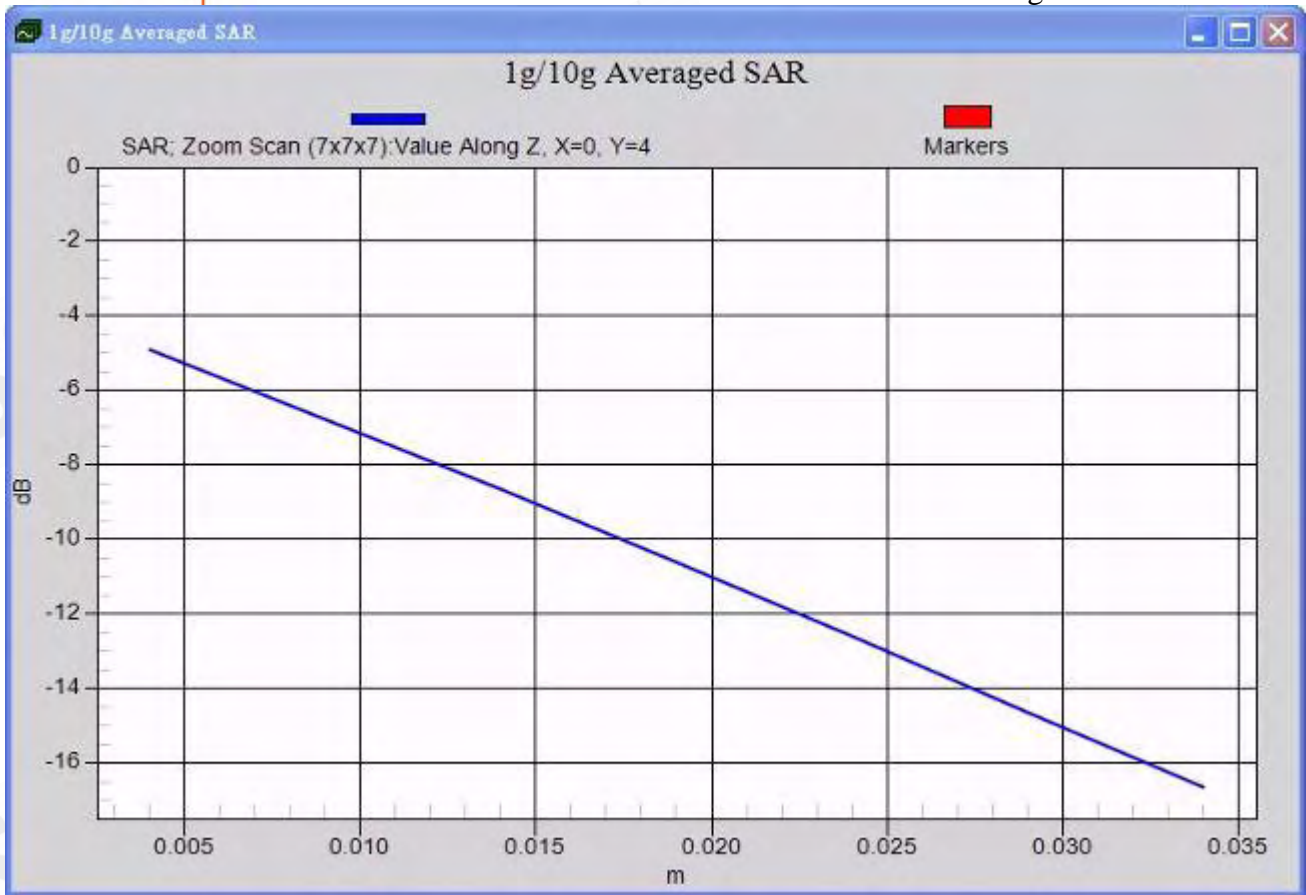
SAR(1 g) = 1.57 mW/g; SAR(10 g) = 0.992 mW/g
Maximum value of SAR (measured) = 1.74 mW/g



0 dB = 1.74mW/g

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Date/Time: 05/07/2009 00:49:09

LE_Cheek_CH9538 repeated with HTE battery

DUT: HERO130;

Communication System: WCDMA B2; Frequency: 1907.6 MHz; Duty Cycle: 1:1
Medium: Head 1900 Medium parameters used: $f = 1908$ MHz; $\sigma = 1.49$ mho/m; $\epsilon_r = 38.1$; $\rho = 1000$ kg/m³
Phantom section: Left Section

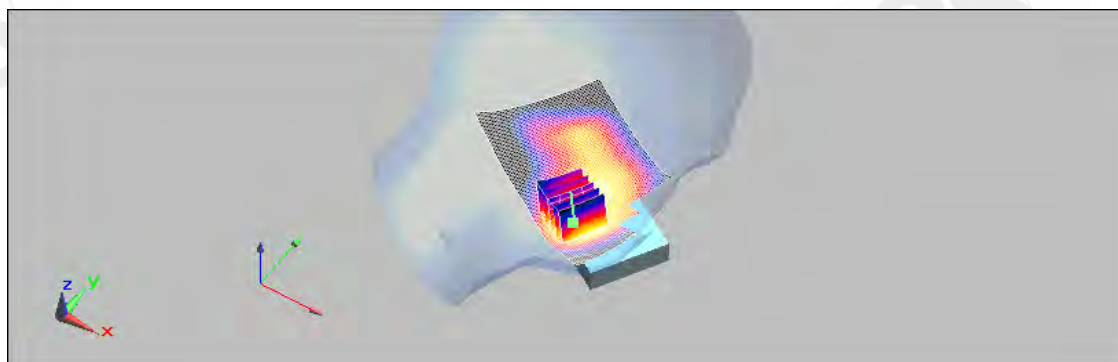
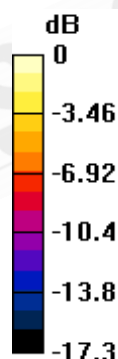
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.97, 4.97, 4.97); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.76 mW/g

LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.4 V/m; Power Drift = 0.048 dB
Peak SAR (extrapolated) = 2.43 W/kg

SAR(1 g) = 1.55 mW/g; SAR(10 g) = 0.967 mW/g
Maximum value of SAR (measured) = 1.68 mW/g



0 dB = 1.68mW/g

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Date/Time: 05/07/2009 01:15:27

LE_Cheek_CH9538 repeated with Formosa battery

DUT: HERO130;

Communication System: WCDMA B2; Frequency: 1907.6 MHz; Duty Cycle: 1:1
 Medium: Head 1900 Medium parameters used: $f = 1908$ MHz; $\sigma = 1.49$ mho/m; $\epsilon_r = 38.1$; $\rho = 1000$ kg/m³
 Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.97, 4.97, 4.97); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 1.71 mW/g

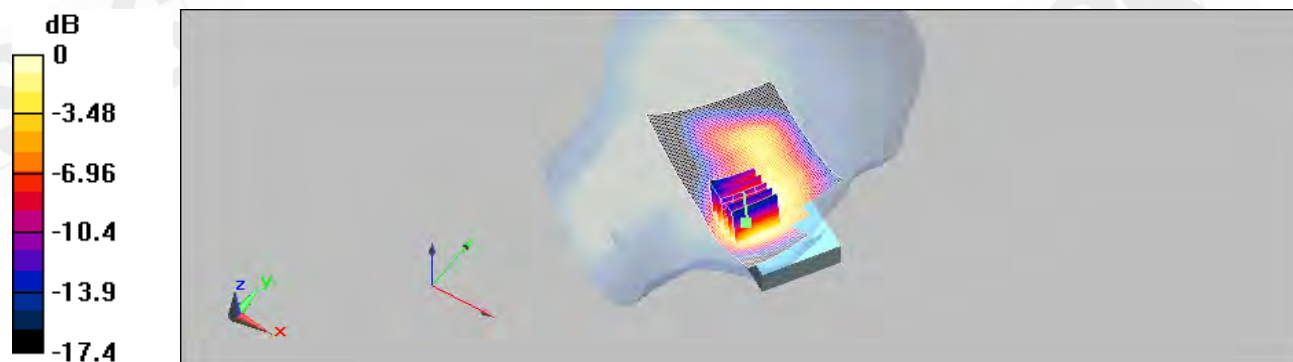
LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.1 V/m; Power Drift = -0.063 dB

Peak SAR (extrapolated) = 2.29 W/kg

SAR(1 g) = 1.49 mW/g; SAR(10 g) = 0.941 mW/g

Maximum value of SAR (measured) = 1.62 mW/g



0 dB = 1.62mW/g

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Date/Time: 05/06/2009 20:31:50

RE_Tilt_CH9262

DUT: HERO130;

Communication System: WCDMA B2; Frequency: 1852.4 MHz; Duty Cycle: 1:1
 Medium: Head 1900 Medium parameters used (interpolated): $f = 1852.4 \text{ MHz}$; $\sigma = 1.44 \text{ mho/m}$; $\epsilon_r = 38.5$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.97, 4.97, 4.97); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Tilt/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.775 mW/g

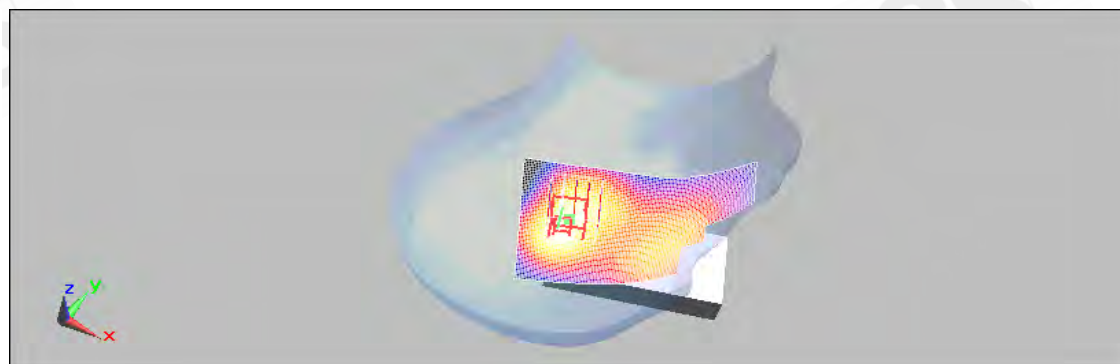
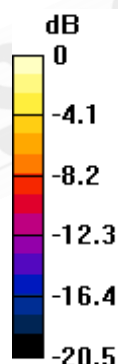
RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 23.6 V/m; Power Drift = 0.018 dB

Peak SAR (extrapolated) = 1.18 W/kg

SAR(1 g) = 0.706 mW/g; SAR(10 g) = 0.412 mW/g

Maximum value of SAR (measured) = 0.783 mW/g



0 dB = 0.783mW/g

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Date/Time: 05/06/2009 20:58:32

RE_Tilt_CH9400

DUT: HERO130;

Communication System: WCDMA B2; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: Head 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 38.4$; $\rho = 1000$ kg/m³
Phantom section: Right Section

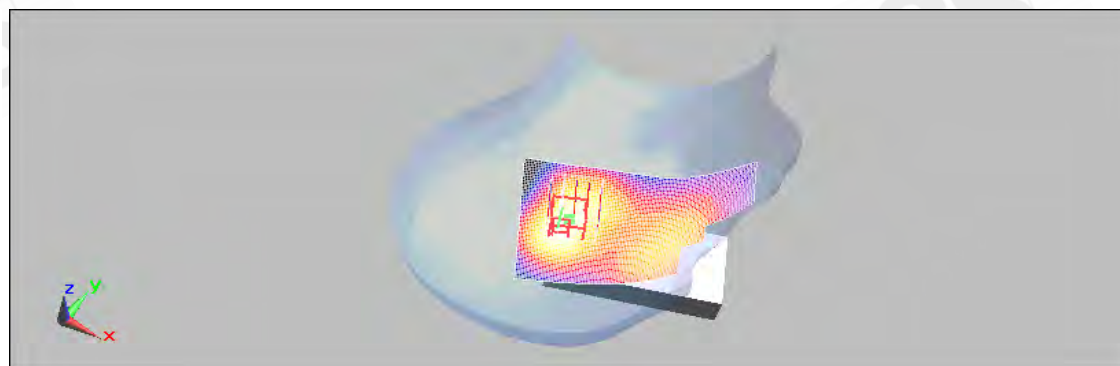
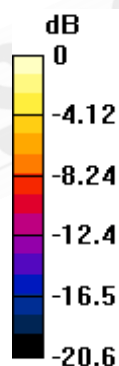
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.97, 4.97, 4.97); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.787 mW/g

RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.7 V/m; Power Drift = 0.00922 dB
Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.715 mW/g; SAR(10 g) = 0.411 mW/g
Maximum value of SAR (measured) = 0.797 mW/g



0 dB = 0.797mW/g

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Date/Time: 05/06/2009 21:25:11

RE_Tilt_CH9538

DUT: HERO130;

Communication System: WCDMA B2; Frequency: 1907.6 MHz; Duty Cycle: 1:1
Medium: Head 1900 Medium parameters used: $f = 1908$ MHz; $\sigma = 1.49$ mho/m; $\epsilon_r = 38.1$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.97, 4.97, 4.97); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.778 mW/g

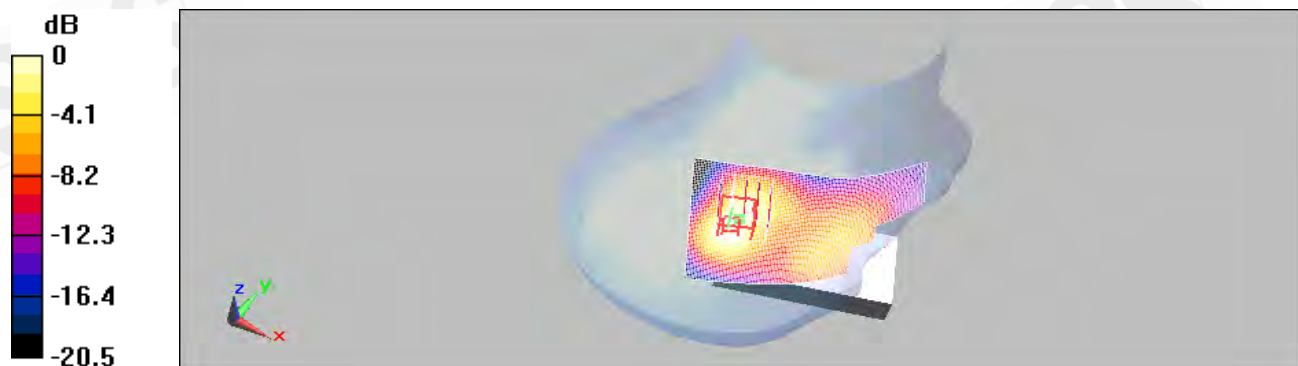
RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.4 V/m; Power Drift = -0.041 dB

Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.718 mW/g; SAR(10 g) = 0.405 mW/g

Maximum value of SAR (measured) = 0.800 mW/g



0 dB = 0.800mW/g

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Date/Time: 05/06/2009 23:02:43

LE_Tilt_CH9262

DUT: HERO130;

Communication System: WCDMA B2; Frequency: 1852.4 MHz; Duty Cycle: 1:1
 Medium: Head 1900 Medium parameters used (interpolated): $f = 1852.4 \text{ MHz}$; $\sigma = 1.44 \text{ mho/m}$; $\epsilon_r = 38.5$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Left Section

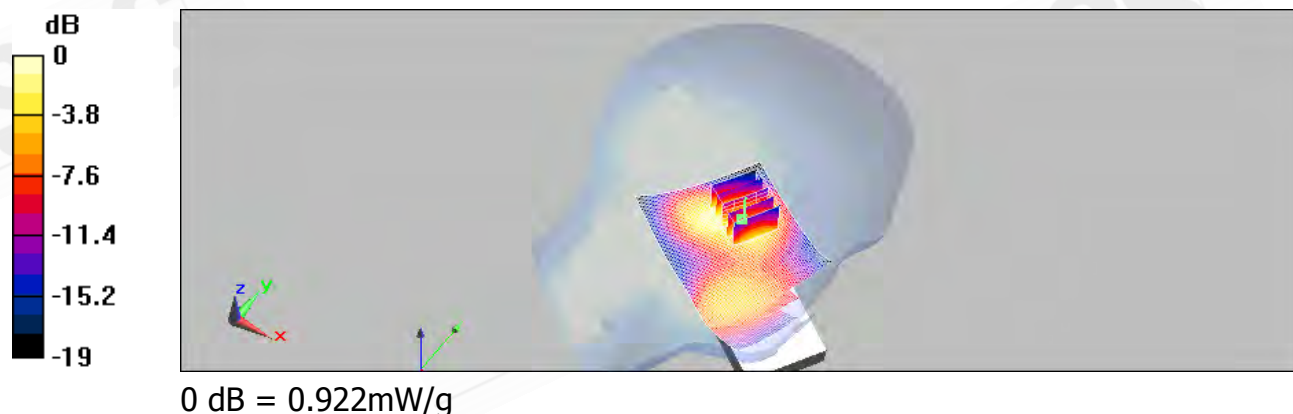
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.97, 4.97, 4.97); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Tilt/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.994 mW/g

LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 21.8 V/m; Power Drift = 0.013 dB
 Peak SAR (extrapolated) = 1.46 W/kg

SAR(1 g) = 0.869 mW/g; SAR(10 g) = 0.501 mW/g
 Maximum value of SAR (measured) = 0.922 mW/g



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Date/Time: 05/06/2009 23:30:11

LE_Tilt_CH9400

DUT: HERO130;

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

Medium: Head 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 38.4$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.97, 4.97, 4.97); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

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

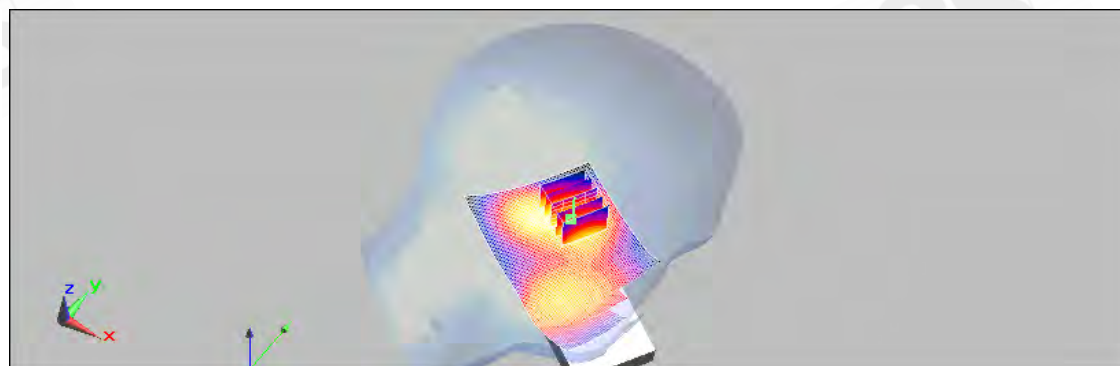
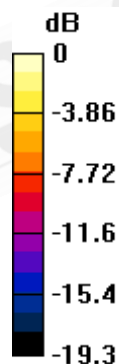
LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.5 V/m; Power Drift = 0.00259 dB

Peak SAR (extrapolated) = 1.5 W/kg

SAR(1 g) = 0.892 mW/g; SAR(10 g) = 0.512 mW/g

Maximum value of SAR (measured) = 0.939 mW/g



0 dB = 0.939mW/g

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Date/Time: 05/06/2009 23:56:03

LE_Tilt_CH9538

DUT: HERO130;

Communication System: WCDMA B2; Frequency: 1907.6 MHz; Duty Cycle: 1:1
 Medium: Head 1900 Medium parameters used: $f = 1908$ MHz; $\sigma = 1.49$ mho/m; $\epsilon_r = 38.1$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.97, 4.97, 4.97); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

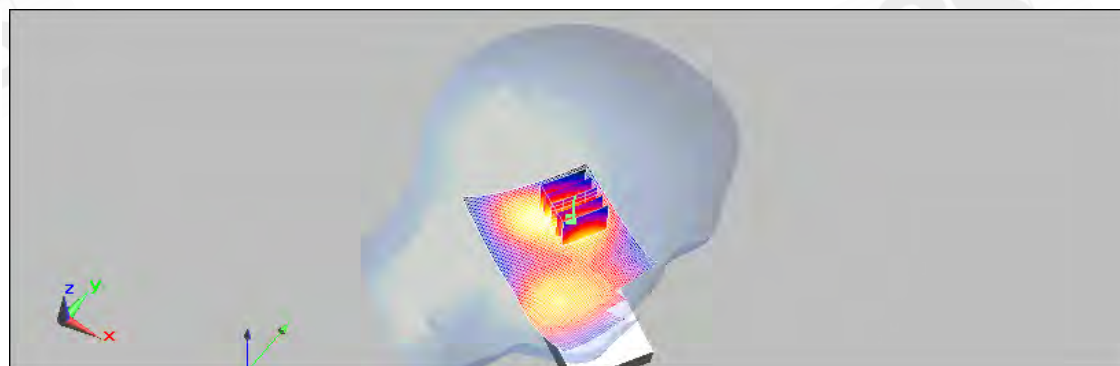
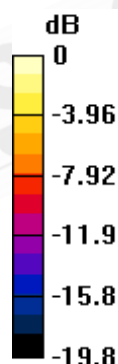
LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.4 V/m; Power Drift = -0.00587 dB

Peak SAR (extrapolated) = 1.56 W/kg

SAR(1 g) = 0.913 mW/g; SAR(10 g) = 0.515 mW/g

Maximum value of SAR (measured) = 0.975 mW/g



0 dB = 0.975mW/g

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Date/Time: 05/09/2009 10:33:31

BODY_CH9262

DUT: HERO130;

Communication System: WCDMA B2; Frequency: 1852.4 MHz; Duty Cycle: 1:1
 Medium: Body 1900 Medium parameters used (interpolated): $f = 1852.4 \text{ MHz}$; $\sigma = 1.53 \text{ mho/m}$; $\epsilon_r = 52.9$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

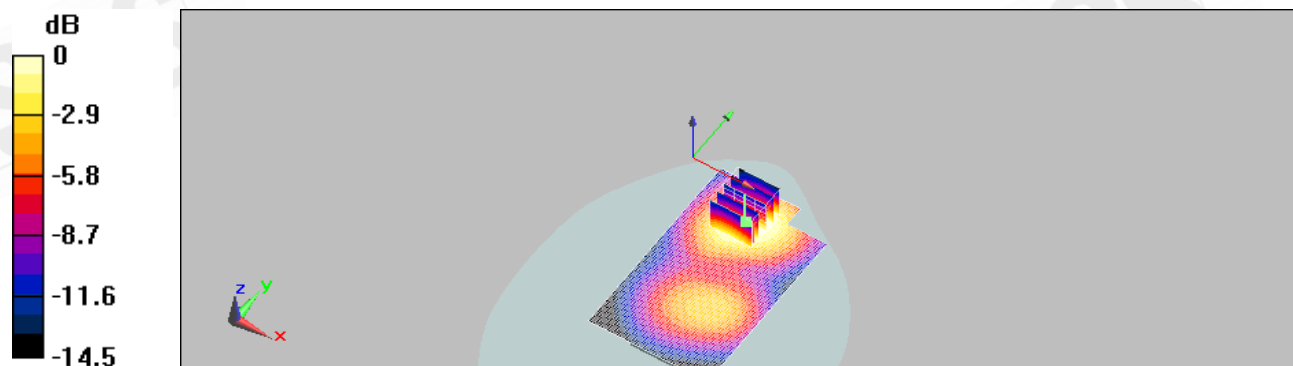
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.417 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 7.81 V/m; Power Drift = 0.053 dB
 Peak SAR (extrapolated) = 0.613 W/kg

SAR(1 g) = 0.383 mW/g; SAR(10 g) = 0.237 mW/g
 Maximum value of SAR (measured) = 0.410 mW/g



0 dB = 0.410mW/g

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Date/Time: 05/09/2009 10:59:05

BODY_CH9400

DUT: HERO130;

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

Medium: Body 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (interpolated) = 0.428 mW/g

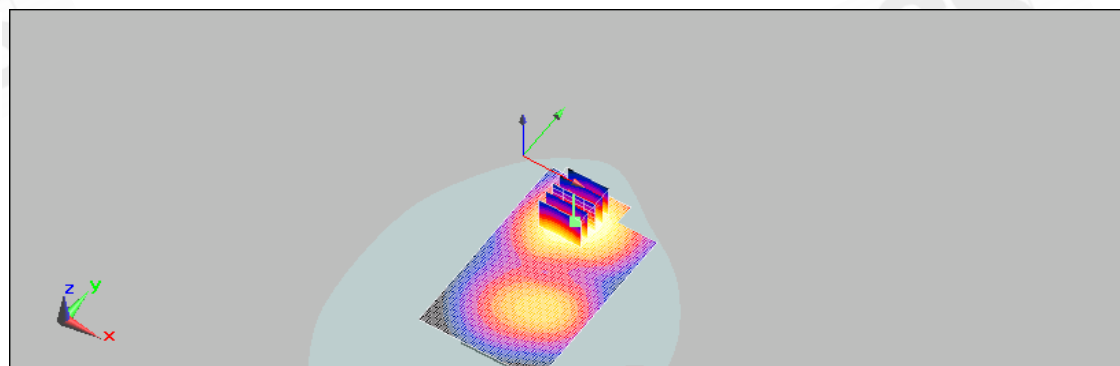
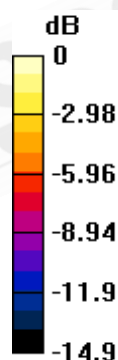
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.91 V/m; Power Drift = 0.084 dB

Peak SAR (extrapolated) = 0.620 W/kg

SAR(1 g) = 0.389 mW/g; SAR(10 g) = 0.242 mW/g

Maximum value of SAR (measured) = 0.418 mW/g



0 dB = 0.418mW/g

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Date/Time: 05/09/2009 11:26:06

BODY_CH9538

DUT: HERO130;

Communication System: WCDMA B2; Frequency: 1907.6 MHz; Duty Cycle: 1:1
Medium: Body 1900 Medium parameters used: $f = 1908$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

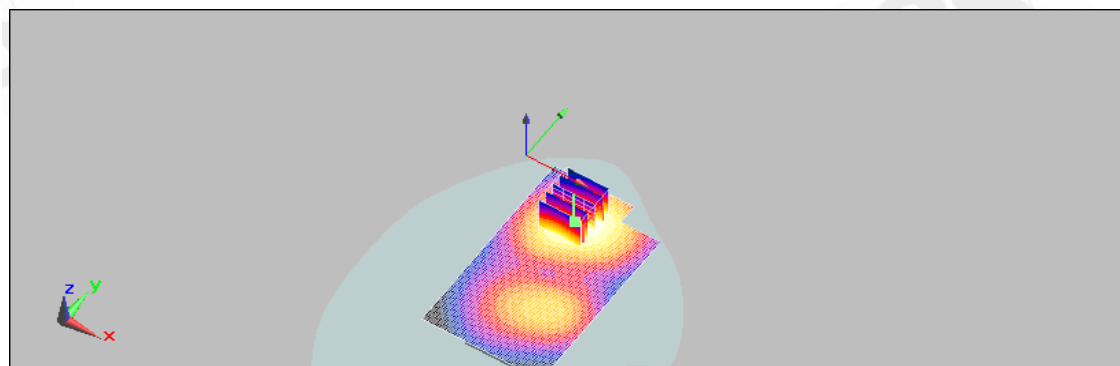
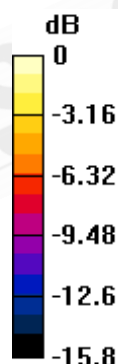
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.404 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.42 V/m; Power Drift = 0.029 dB
Peak SAR (extrapolated) = 0.595 W/kg

SAR(1 g) = 0.370 mW/g; SAR(10 g) = 0.230 mW/g
Maximum value of SAR (measured) = 0.393 mW/g



0 dB = 0.393mW/g

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Date/Time: 05/09/2009 11:52:57

BODY_CH9262 repeated with HSDPA mode

DUT: HERO130;

Communication System: WCDMA B2; Frequency: 1852.4 MHz; Duty Cycle: 1:1
 Medium: Body 1900 Medium parameters used (interpolated): $f = 1852.4 \text{ MHz}$; $\sigma = 1.53 \text{ mho/m}$; $\epsilon_r = 52.9$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

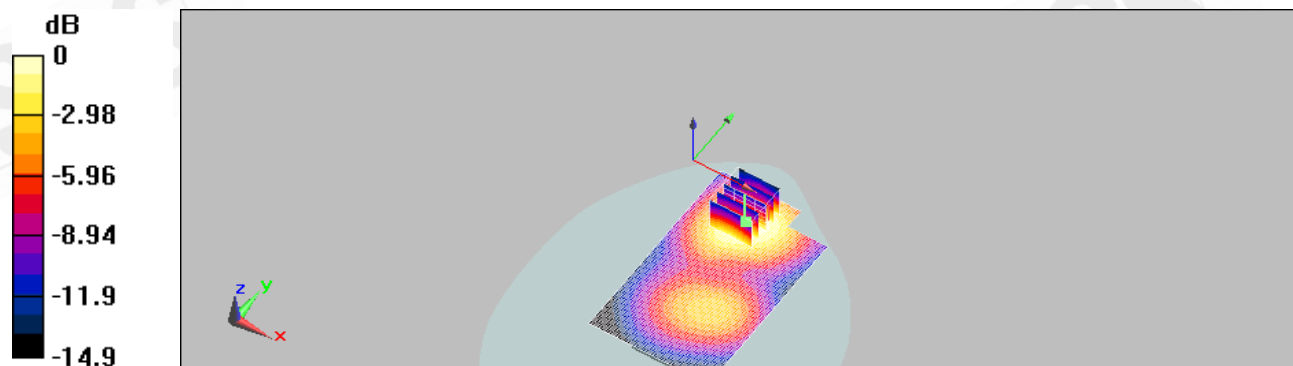
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.390 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 7.41 V/m; Power Drift = 0.142 dB
 Peak SAR (extrapolated) = 0.571 W/kg

SAR(1 g) = 0.358 mW/g; SAR(10 g) = 0.222 mW/g
 Maximum value of SAR (measured) = 0.385 mW/g



0 dB = 0.385mW/g

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Date/Time: 05/09/2009 12:21:31

BODY_CH9400 repeated with HSDPA mode

DUT: HERO130;

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

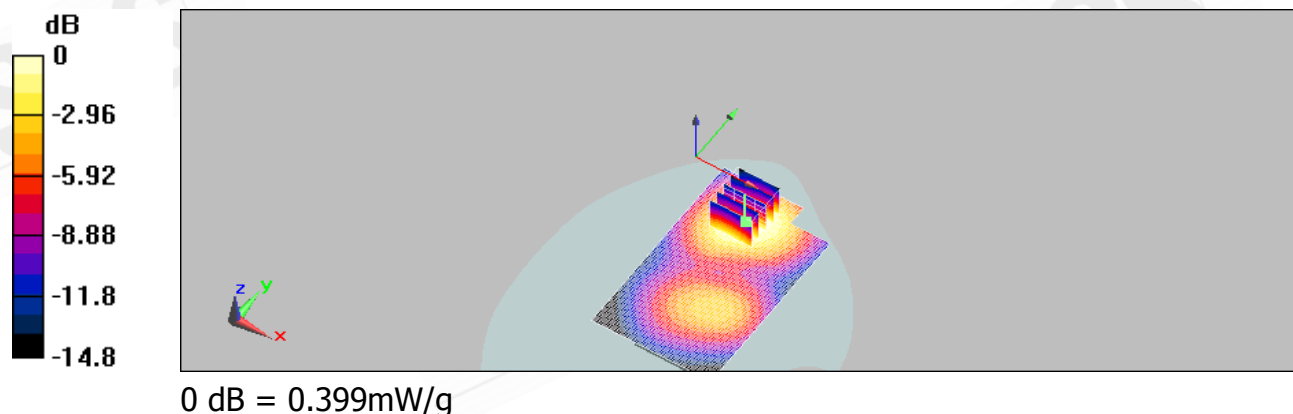
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.404 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 7.6 V/m; Power Drift = 0.160 dB
Peak SAR (extrapolated) = 0.593 W/kg

SAR(1 g) = 0.372 mW/g; SAR(10 g) = 0.231 mW/g
Maximum value of SAR (measured) = 0.399 mW/g



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Date/Time: 05/09/2009 12:47:08

BODY_CH9538 repeated with HSDPA mode

DUT: HERO130;

Communication System: WCDMA B2; Frequency: 1907.6 MHz; Duty Cycle: 1:1
Medium: Body 1900 Medium parameters used: $f = 1908$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

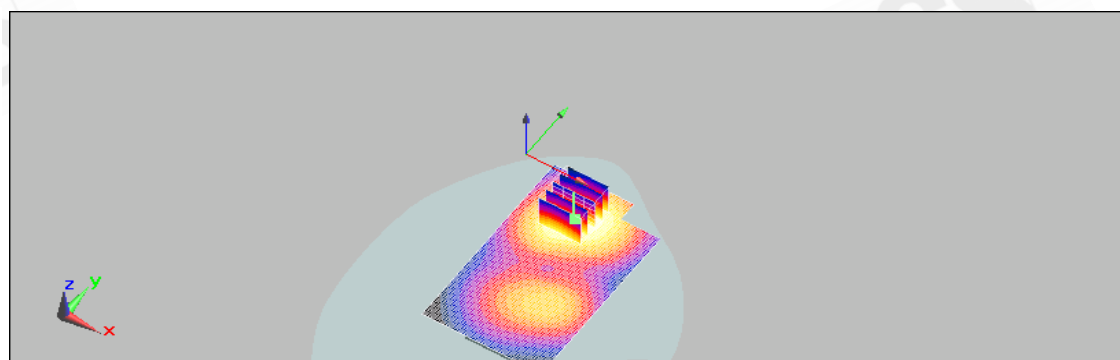
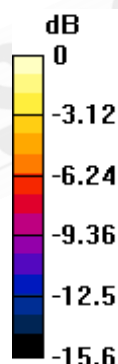
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.23 V/m; Power Drift = -0.00865 dB
Peak SAR (extrapolated) = 0.554 W/kg

SAR(1 g) = 0.347 mW/g; SAR(10 g) = 0.215 mW/g
Maximum value of SAR (measured) = 0.371 mW/g



0 dB = 0.371mW/g

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Date/Time: 05/09/2009 13:14:46

BODY_CH9262 repeated with HSUPA mode

DUT: HERO130;

Communication System: WCDMA B2; Frequency: 1852.4 MHz; Duty Cycle: 1:1
Medium: Body 1900 Medium parameters used (interpolated): $f = 1852.4 \text{ MHz}$; $\sigma = 1.53 \text{ mho/m}$; $\epsilon_r = 52.9$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

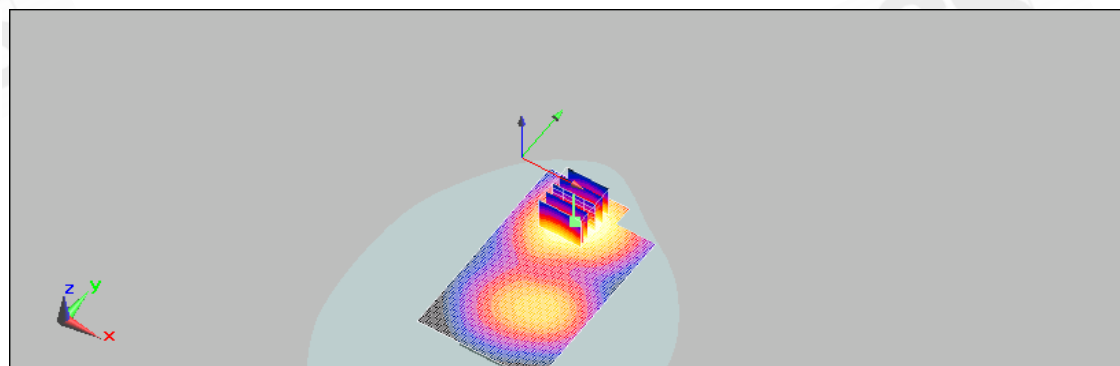
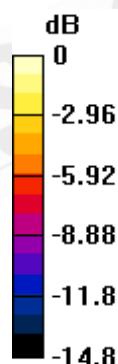
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.376 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 7.44 V/m; Power Drift = -0.00556 dB
Peak SAR (extrapolated) = 0.547 W/kg

SAR(1 g) = 0.344 mW/g; SAR(10 g) = 0.213 mW/g
Maximum value of SAR (measured) = 0.370 mW/g



0 dB = 0.370mW/g

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Date/Time: 05/09/2009 13:42:47

BODY_CH9400 repeated with HSUPA mode

DUT: HERO130;

Communication System: WCDMA B2; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: Body 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

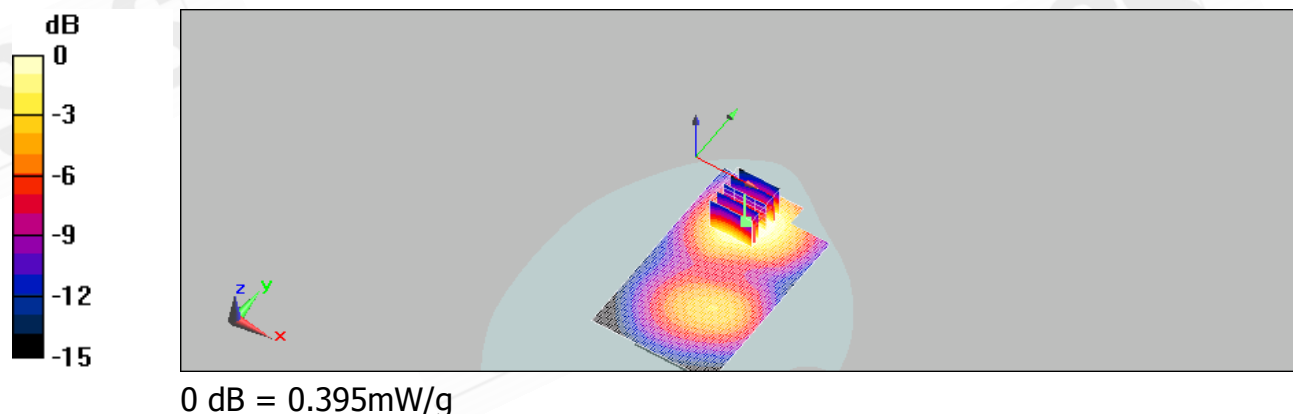
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.411 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.7 V/m; Power Drift = 0.055 dB
Peak SAR (extrapolated) = 0.596 W/kg

SAR(1 g) = 0.373 mW/g; SAR(10 g) = 0.231 mW/g
Maximum value of SAR (measured) = 0.395 mW/g



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Date/Time: 05/09/2009 14:08:42

BODY_CH9538 repeated with HSUPA mode

DUT: HERO130;

Communication System: WCDMA B2; Frequency: 1907.6 MHz; Duty Cycle: 1:1
 Medium: Body 1900 Medium parameters used: $f = 1908$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

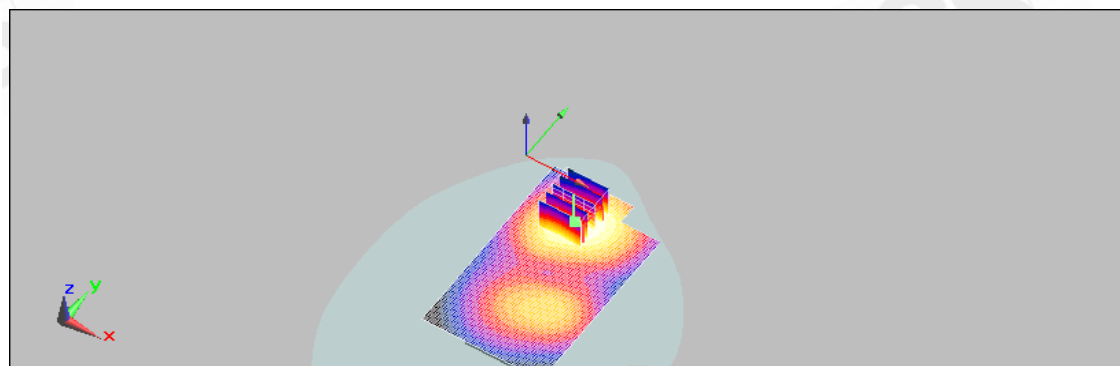
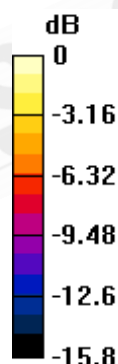
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 0.386 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 7.23 V/m; Power Drift = -0.027 dB
 Peak SAR (extrapolated) = 0.555 W/kg

SAR(1 g) = 0.347 mW/g; SAR(10 g) = 0.216 mW/g
 Maximum value of SAR (measured) = 0.369 mW/g



0 dB = 0.369mW/g

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Date/Time: 05/06/2009 06:42:46

RE_Cheek_CH4132

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 826.4 MHz; Duty Cycle: 1:1
Medium: Head 900 Medium parameters used (interpolated): $f = 826.4 \text{ MHz}$; $\sigma = 0.856 \text{ mho/m}$; $\epsilon_r = 40.2$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.66, 5.66, 5.66); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Cheek/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.582 mW/g

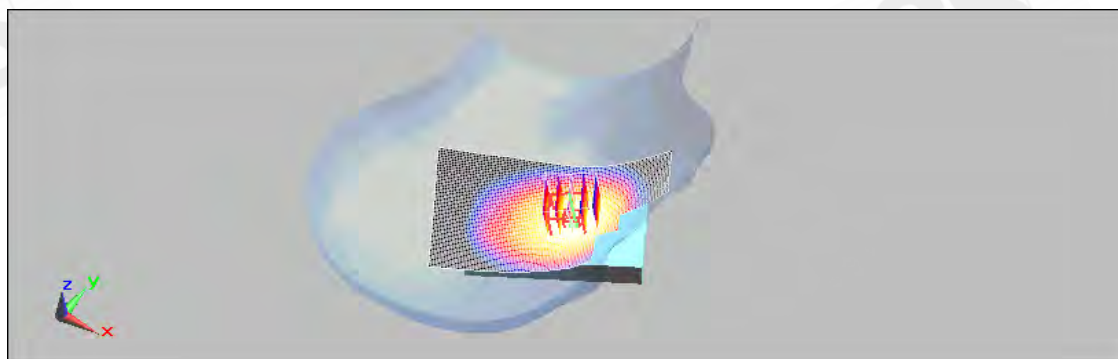
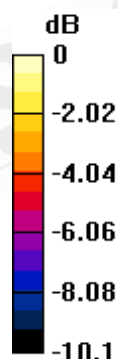
RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.3 V/m; Power Drift = 0.016 dB

Peak SAR (extrapolated) = 0.633 W/kg

SAR(1 g) = 0.534 mW/g; SAR(10 g) = 0.405 mW/g

Maximum value of SAR (measured) = 0.563 mW/g



0 dB = 0.563mW/g

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Date/Time: 05/06/2009 07:10:33

RE_Cheek_CH4183

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: Head 900 Medium parameters used: $f = 837$ MHz; $\sigma = 0.861$ mho/m; $\epsilon_r = 39.9$; $\rho = 1000$ kg/m³
Phantom section: Right Section

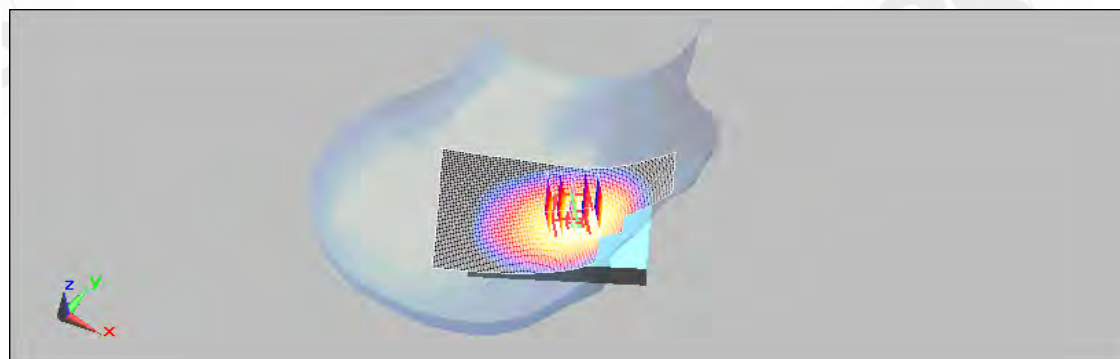
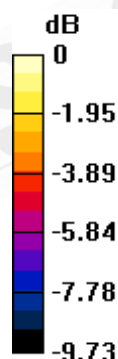
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.66, 5.66, 5.66); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.592 mW/g

RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.4 V/m; Power Drift = 0.111 dB
Peak SAR (extrapolated) = 0.654 W/kg

SAR(1 g) = 0.554 mW/g; SAR(10 g) = 0.422 mW/g
Maximum value of SAR (measured) = 0.584 mW/g



0 dB = 0.584mW/g

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Date/Time: 05/06/2009 07:36:55

RE_Cheek_CH4233

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 846.6 MHz; Duty Cycle: 1:1
Medium: Head 900 Medium parameters used: $f = 847$ MHz; $\sigma = 0.874$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³
Phantom section: Right Section

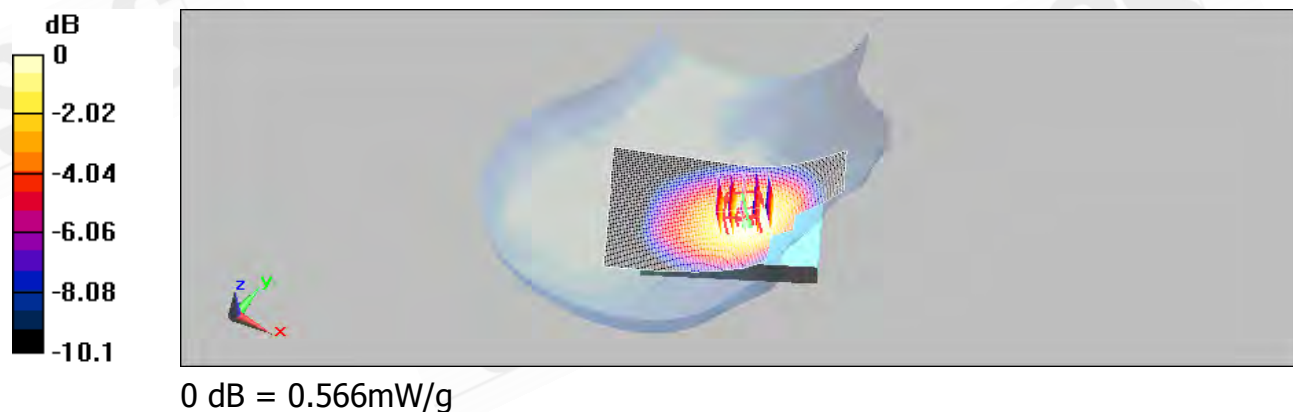
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.66, 5.66, 5.66); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.571 mW/g

RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.2 V/m; Power Drift = 0.00122 dB
Peak SAR (extrapolated) = 0.646 W/kg

SAR(1 g) = 0.539 mW/g; SAR(10 g) = 0.410 mW/g
Maximum value of SAR (measured) = 0.566 mW/g



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Date/Time: 05/06/2009 09:27:43

LE_Cheek_CH4132

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 826.4 MHz; Duty Cycle: 1:1
Medium: Head 900 Medium parameters used (interpolated): $f = 826.4 \text{ MHz}$; $\sigma = 0.856 \text{ mho/m}$; $\epsilon_r = 40.2$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.66, 5.66, 5.66); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.533 mW/g

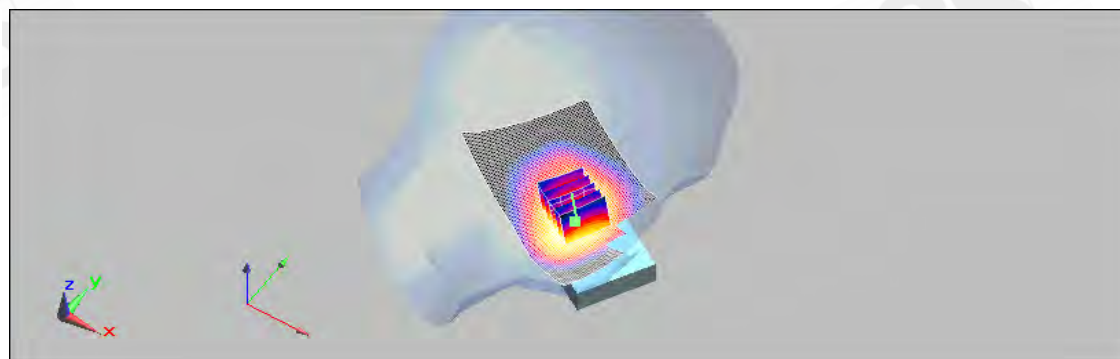
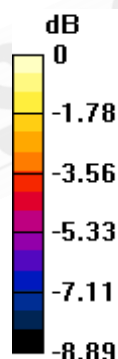
LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.7 V/m; Power Drift = 0.012 dB

Peak SAR (extrapolated) = 0.636 W/kg

SAR(1 g) = 0.528 mW/g; SAR(10 g) = 0.398 mW/g

Maximum value of SAR (measured) = 0.556 mW/g



0 dB = 0.556mW/g

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Date/Time: 05/06/2009 09:55:02

LE_Cheek_CH4183

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1
 Medium: Head 900 Medium parameters used: $f = 837$ MHz; $\sigma = 0.861$ mho/m; $\epsilon_r = 39.9$; $\rho = 1000$ kg/m³
 Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.66, 5.66, 5.66); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 0.562 mW/g

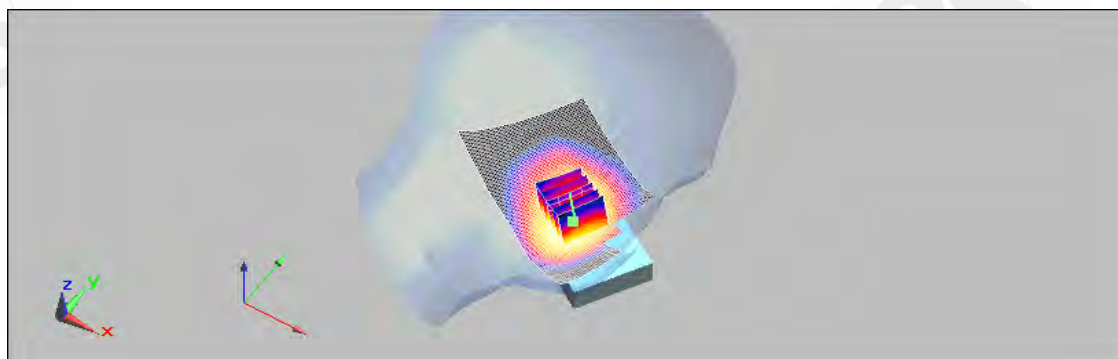
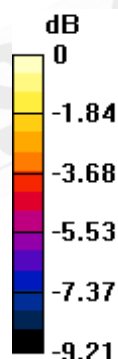
LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.7 V/m; Power Drift = 0.050 dB

Peak SAR (extrapolated) = 0.654 W/kg

SAR(1 g) = 0.539 mW/g; SAR(10 g) = 0.409 mW/g

Maximum value of SAR (measured) = 0.564 mW/g



0 dB = 0.564mW/g

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Date/Time: 05/06/2009 10:21:36

LE_Cheek_CH4233

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 846.6 MHz; Duty Cycle: 1:1
Medium: Head 900 Medium parameters used: $f = 847$ MHz; $\sigma = 0.874$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³
Phantom section: Left Section

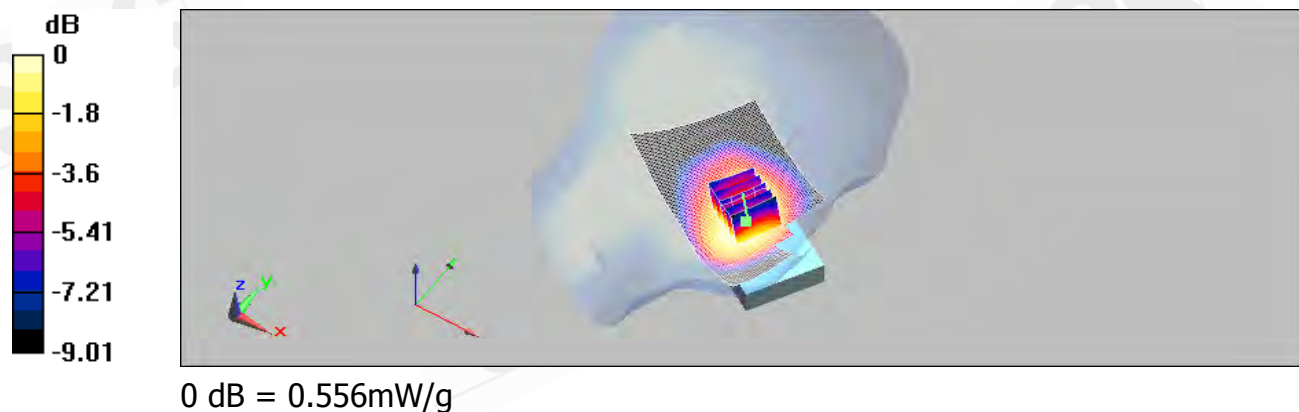
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.66, 5.66, 5.66); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.553 mW/g

LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.4 V/m; Power Drift = 0.045 dB
Peak SAR (extrapolated) = 0.638 W/kg

SAR(1 g) = 0.530 mW/g; SAR(10 g) = 0.398 mW/g
Maximum value of SAR (measured) = 0.556 mW/g



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Date/Time: 05/06/2009 08:05:54

RE_Tilt_CH4132

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 826.4 MHz; Duty Cycle: 1:1
Medium: Head 900 Medium parameters used (interpolated): $f = 826.4 \text{ MHz}$; $\sigma = 0.856 \text{ mho/m}$; $\epsilon_r = 40.2$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.66, 5.66, 5.66); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Tilt/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.382 mW/g

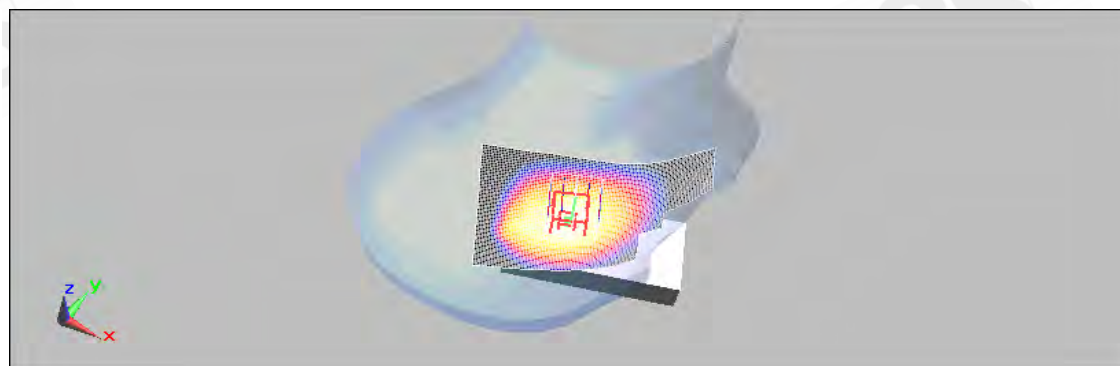
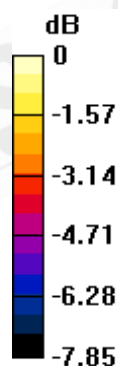
RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 19.1 V/m; Power Drift = 0.040 dB

Peak SAR (extrapolated) = 0.442 W/kg

SAR(1 g) = 0.367 mW/g; SAR(10 g) = 0.283 mW/g

Maximum value of SAR (measured) = 0.385 mW/g



0 dB = 0.385mW/g

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Date/Time: 05/06/2009 08:32:15

RE_Tilt_CH4183

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: Head 900 Medium parameters used: $f = 837$ MHz; $\sigma = 0.861$ mho/m; $\epsilon_r = 39.9$; $\rho = 1000$ kg/m³
Phantom section: Right Section

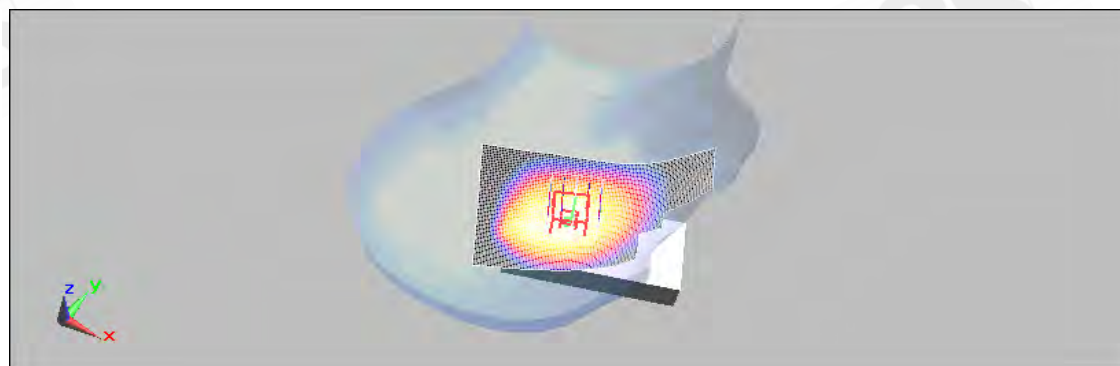
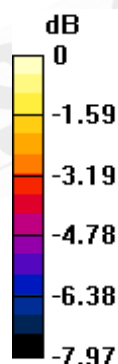
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.66, 5.66, 5.66); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.386 mW/g

RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 19.2 V/m; Power Drift = -0.056 dB
Peak SAR (extrapolated) = 0.442 W/kg

SAR(1 g) = 0.366 mW/g; SAR(10 g) = 0.283 mW/g
Maximum value of SAR (measured) = 0.383 mW/g



0 dB = 0.383mW/g

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Date/Time: 05/06/2009 09:01:54

RE_Tilt_CH4233

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 846.6 MHz; Duty Cycle: 1:1
Medium: Head 900 Medium parameters used: $f = 847$ MHz; $\sigma = 0.874$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.66, 5.66, 5.66); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.393 mW/g

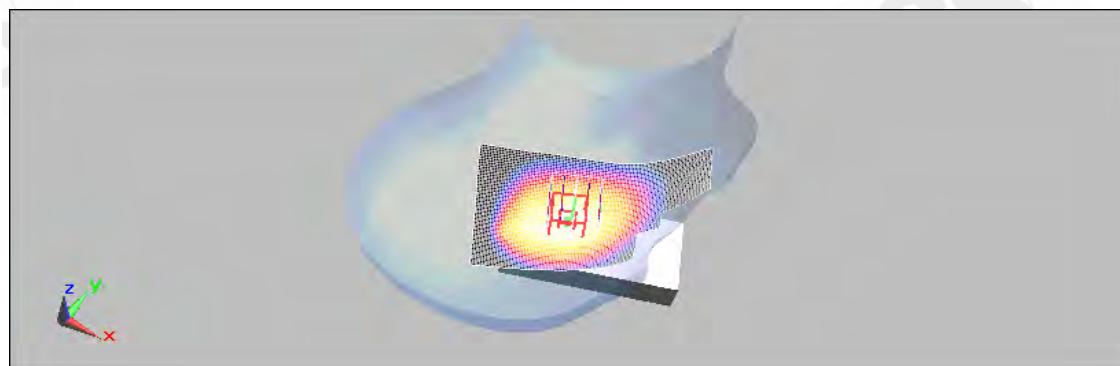
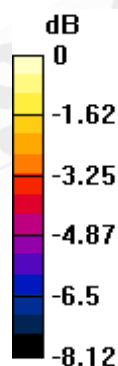
RE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.4 V/m; Power Drift = 0.011 dB

Peak SAR (extrapolated) = 0.449 W/kg

SAR(1 g) = 0.371 mW/g; SAR(10 g) = 0.285 mW/g

Maximum value of SAR (measured) = 0.388 mW/g



0 dB = 0.388mW/g

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Date/Time: 05/06/2009 10:48:54

LE_Tilt_CH4132

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 826.4 MHz; Duty Cycle: 1:1
 Medium: Head 900 Medium parameters used (interpolated): $f = 826.4 \text{ MHz}$; $\sigma = 0.856 \text{ mho/m}$; $\epsilon_r = 40.2$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Left Section

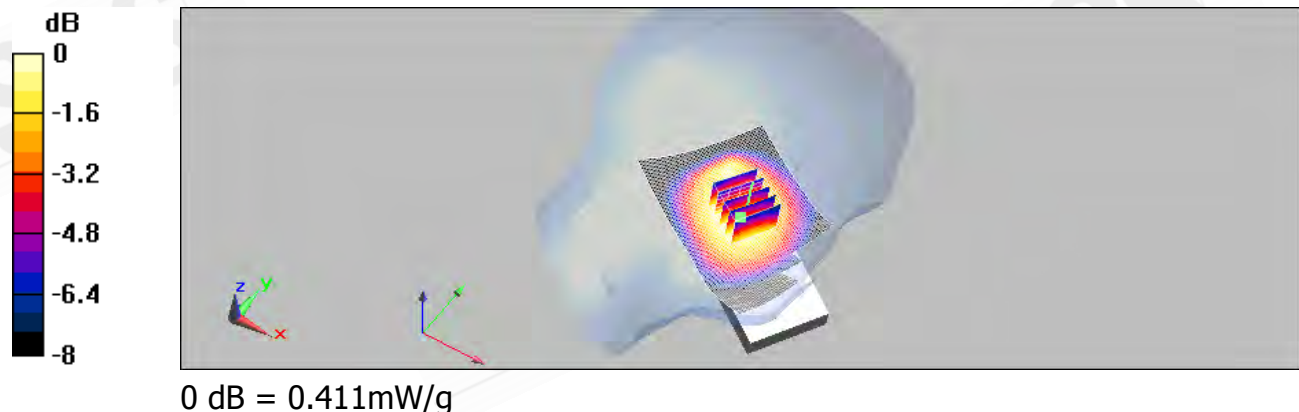
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.66, 5.66, 5.66); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 20.1 V/m; Power Drift = -0.088 dB
 Peak SAR (extrapolated) = 0.482 W/kg

SAR(1 g) = 0.398 mW/g; SAR(10 g) = 0.307 mW/g
 Maximum value of SAR (measured) = 0.411 mW/g



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Date/Time: 05/06/2009 11:15:34

LE_Tilt_CH4183

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1
 Medium: Head 900 Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.861 \text{ mho/m}$; $\epsilon_r = 39.9$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Left Section

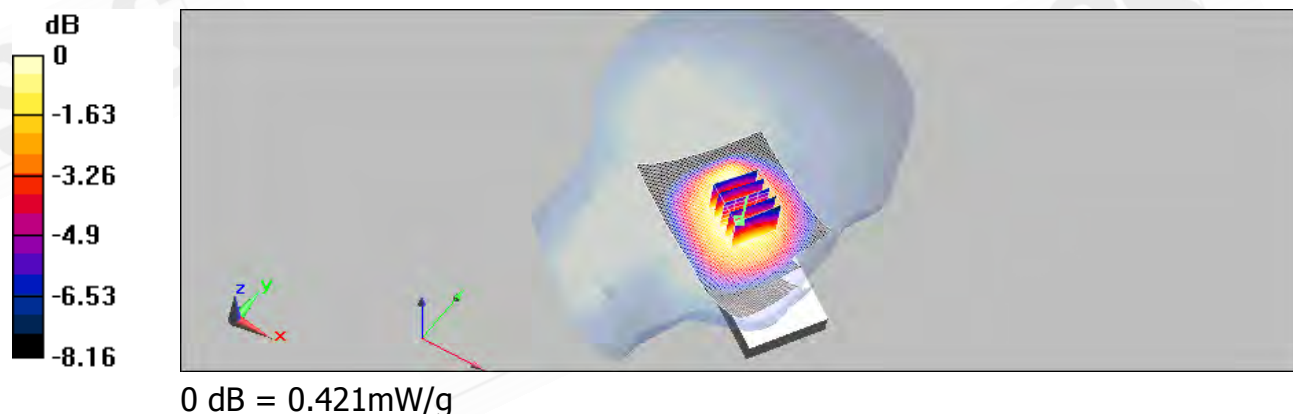
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.66, 5.66, 5.66); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Tilt/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.422 mW/g

LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 20.2 V/m; Power Drift = -0.017 dB
 Peak SAR (extrapolated) = 0.488 W/kg

SAR(1 g) = 0.403 mW/g; SAR(10 g) = 0.310 mW/g
 Maximum value of SAR (measured) = 0.421 mW/g



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Date/Time: 05/06/2009 11:43:51

LE_Tiilt_CH4233

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 846.6 MHz; Duty Cycle: 1:1
 Medium: Head 900 Medium parameters used: $f = 847 \text{ MHz}$; $\sigma = 0.874 \text{ mho/m}$; $\epsilon_r = 39.7$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Left Section

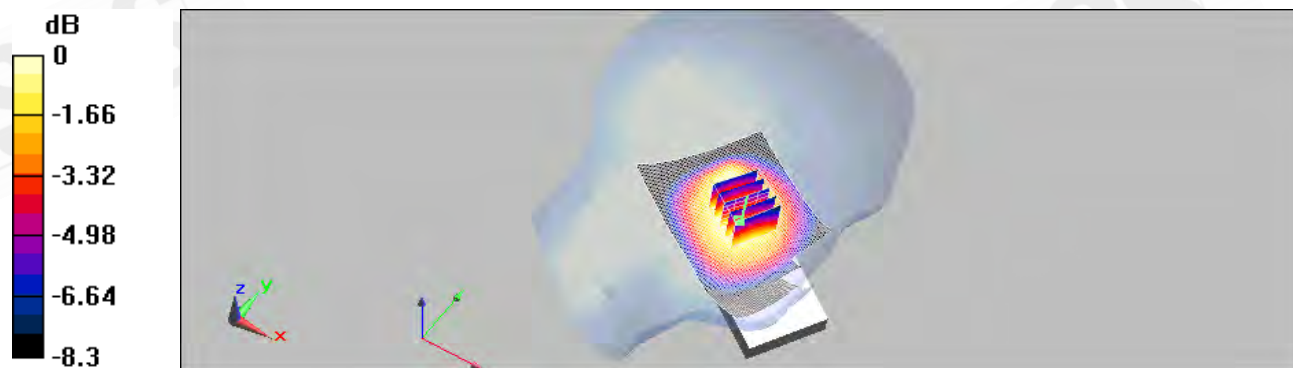
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.66, 5.66, 5.66); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Tilt/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.427 mW/g

LE Tilt/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 20.1 V/m; Power Drift = 0.022 dB
 Peak SAR (extrapolated) = 0.503 W/kg

SAR(1 g) = 0.414 mW/g; SAR(10 g) = 0.317 mW/g
 Maximum value of SAR (measured) = 0.434 mW/g



0 dB = 0.434mW/g

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Date/Time: 05/09/2009 18:51:26

BODY_CH4132

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 826.4 MHz; Duty Cycle: 1:1
Medium: Body 900 Medium parameters used (interpolated): $f = 826.4 \text{ MHz}$; $\sigma = 0.963 \text{ mho/m}$; $\epsilon_r = 55.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

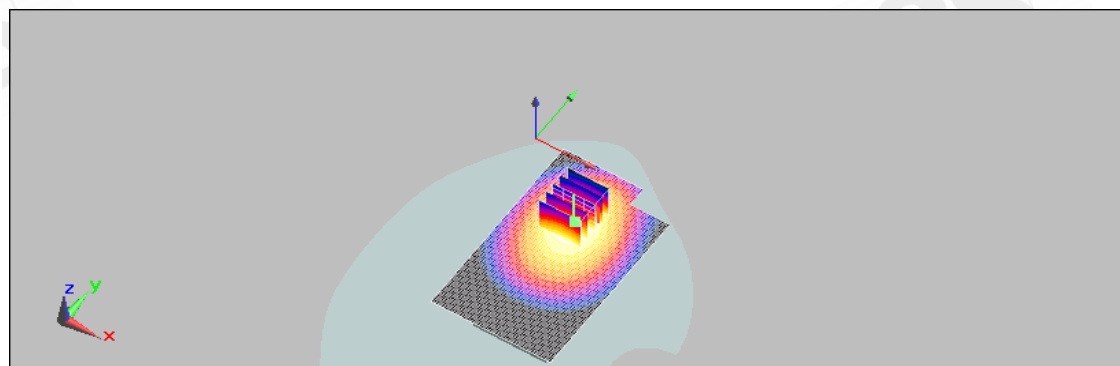
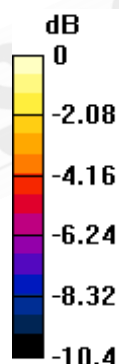
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.545 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 6.76 V/m; Power Drift = -0.067 dB
Peak SAR (extrapolated) = 0.711 W/kg

SAR(1 g) = 0.514 mW/g; SAR(10 g) = 0.366 mW/g
Maximum value of SAR (measured) = 0.546 mW/g



0 dB = 0.546mW/g

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Date/Time: 05/09/2009 19:18:18

BODY_CH4183

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: Body 900 Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.968 \text{ mho/m}$; $\epsilon_r = 55$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

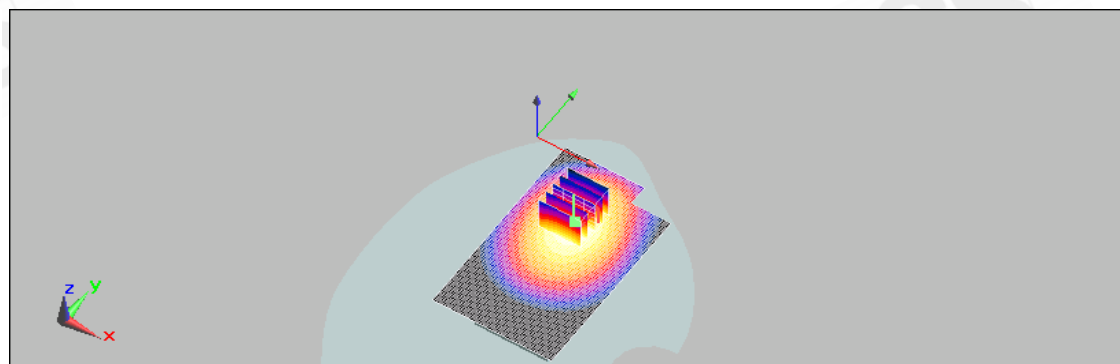
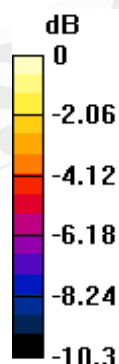
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.578 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 7 V/m; Power Drift = 0.074 dB
Peak SAR (extrapolated) = 0.735 W/kg

SAR(1 g) = 0.534 mW/g; SAR(10 g) = 0.382 mW/g
Maximum value of SAR (measured) = 0.565 mW/g



0 dB = 0.565mW/g

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Date/Time: 05/09/2009 19:46:13

BODY_CH4233

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: Body 900 Medium parameters used: $f = 847 \text{ MHz}$; $\sigma = 0.974 \text{ mho/m}$; $\epsilon_r = 54.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

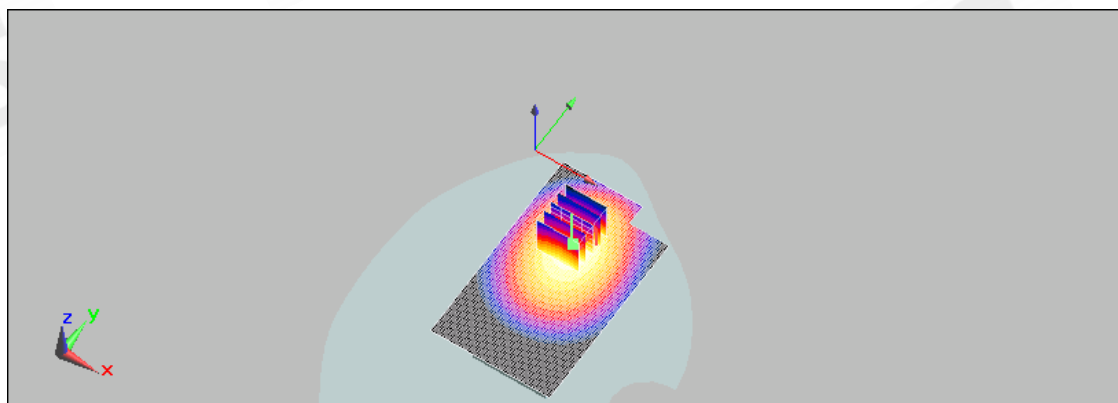
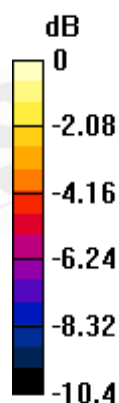
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.539 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 6.92 V/m; Power Drift = 0.010 dB
Peak SAR (extrapolated) = 0.701 W/kg

SAR(1 g) = 0.508 mW/g; SAR(10 g) = 0.364 mW/g
Maximum value of SAR (measured) = 0.539 mW/g



0 dB = 0.539mW/g

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Date/Time: 05/09/2009 20:13:04

BODY_CH4132 repeated with HSDPA mode

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 826.4 MHz; Duty Cycle: 1:1
Medium: Body 900 Medium parameters used (interpolated): $f = 826.4 \text{ MHz}$; $\sigma = 0.963 \text{ mho/m}$; $\epsilon_r = 55.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

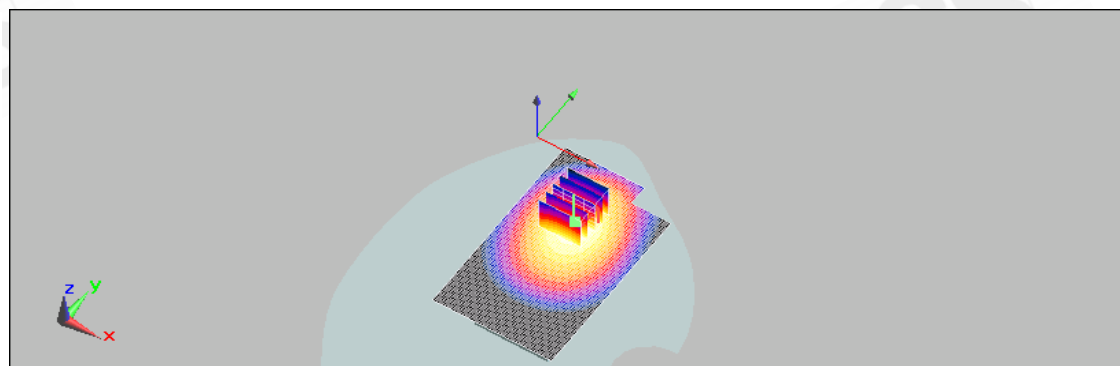
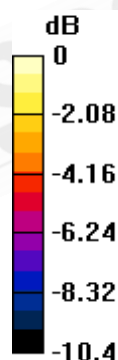
DASY5 Configuration:

- ES3DV3 - SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.535 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 6.88 V/m; Power Drift = 0.00604 dB
Peak SAR (extrapolated) = 0.694 W/kg

SAR(1 g) = 0.502 mW/g; SAR(10 g) = 0.358 mW/g
Maximum value of SAR (measured) = 0.532 mW/g



0 dB = 0.532mW/g

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Date/Time: 05/09/2009 20:42:32

BODY_CH4183 repeated with HSDPA mode

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: Body 900 Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.968 \text{ mho/m}$; $\epsilon_r = 55$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

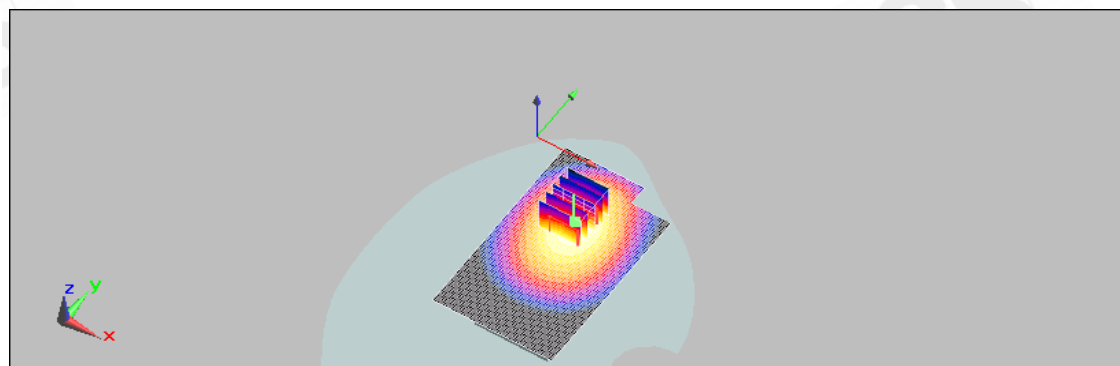
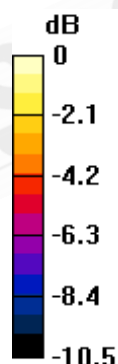
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.576 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 7.23 V/m; Power Drift = 0.064 dB
Peak SAR (extrapolated) = 0.758 W/kg

SAR(1 g) = 0.546 mW/g; SAR(10 g) = 0.389 mW/g
Maximum value of SAR (measured) = 0.582 mW/g



0 dB = 0.582mW/g

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Date/Time: 05/09/2009 21:09:44

BODY_CH4233 repeated with HSDPA mode

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 846.6 MHz; Duty Cycle: 1:1
Medium: Body 900 Medium parameters used: $f = 847$ MHz; $\sigma = 0.974$ mho/m; $\epsilon_r = 54.9$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

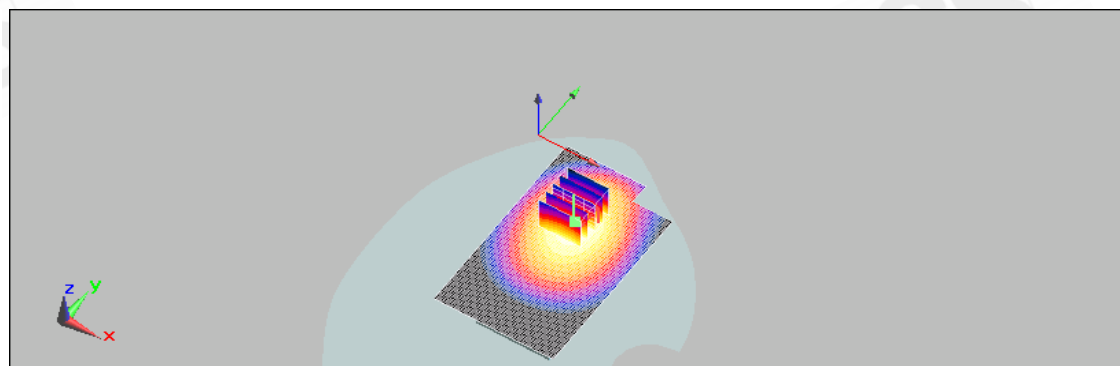
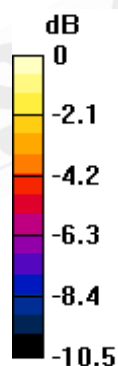
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.541 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.18 V/m; Power Drift = -0.052 dB
Peak SAR (extrapolated) = 0.709 W/kg

SAR(1 g) = 0.512 mW/g; SAR(10 g) = 0.365 mW/g
Maximum value of SAR (measured) = 0.542 mW/g



0 dB = 0.542mW/g

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Date/Time: 05/09/2009 21:35:10

BODY_CH4132 repeated with HSUPA mode

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 826.4 MHz; Duty Cycle: 1:1
Medium: Body 900 Medium parameters used (interpolated): $f = 826.4 \text{ MHz}$; $\sigma = 0.963 \text{ mho/m}$; $\epsilon_r = 55.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

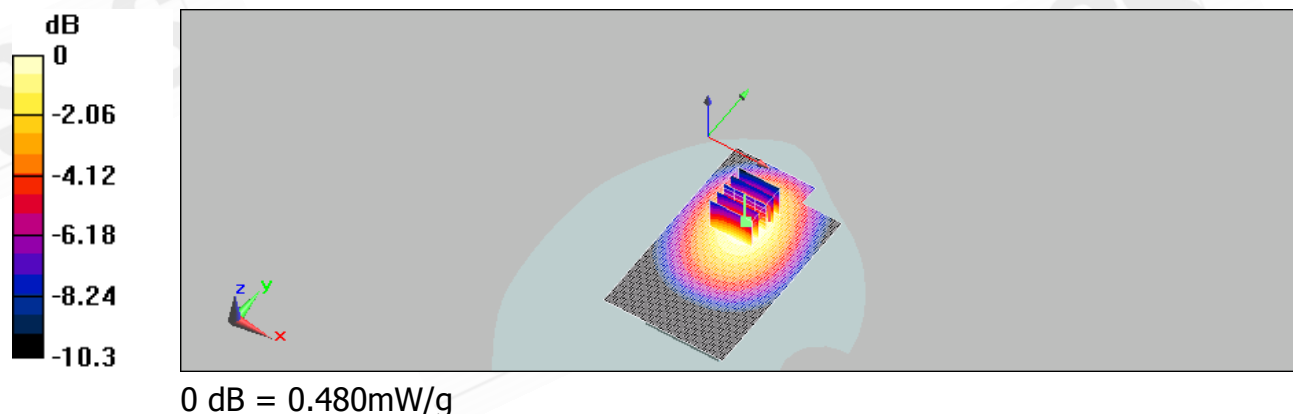
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.489 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 6.61 V/m; Power Drift = -0.071 dB
Peak SAR (extrapolated) = 0.632 W/kg

SAR(1 g) = 0.456 mW/g; SAR(10 g) = 0.326 mW/g
Maximum value of SAR (measured) = 0.480 mW/g



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Date/Time: 05/09/2009 22:02:58

BODY_CH4183 repeated with HSUPA mode

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: Body 900 Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.968 \text{ mho/m}$; $\epsilon_r = 55$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

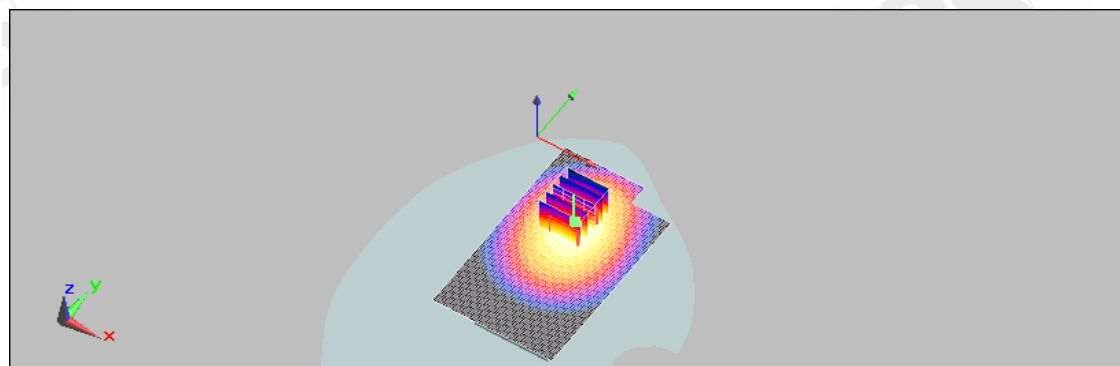
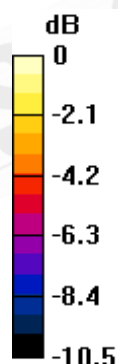
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.540 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$,
 $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 7.1 V/m; Power Drift = -0.044 dB
Peak SAR (extrapolated) = 0.708 W/kg

SAR(1 g) = 0.511 mW/g; SAR(10 g) = 0.365 mW/g
Maximum value of SAR (measured) = 0.541 mW/g



0 dB = 0.541mW/g

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Date/Time: 05/09/2009 22:31:51

BODY_CH4233 repeated with HSUPA mode

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 846.6 MHz; Duty Cycle: 1:1
Medium: Body 900 Medium parameters used: $f = 847$ MHz; $\sigma = 0.974$ mho/m; $\epsilon_r = 54.9$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

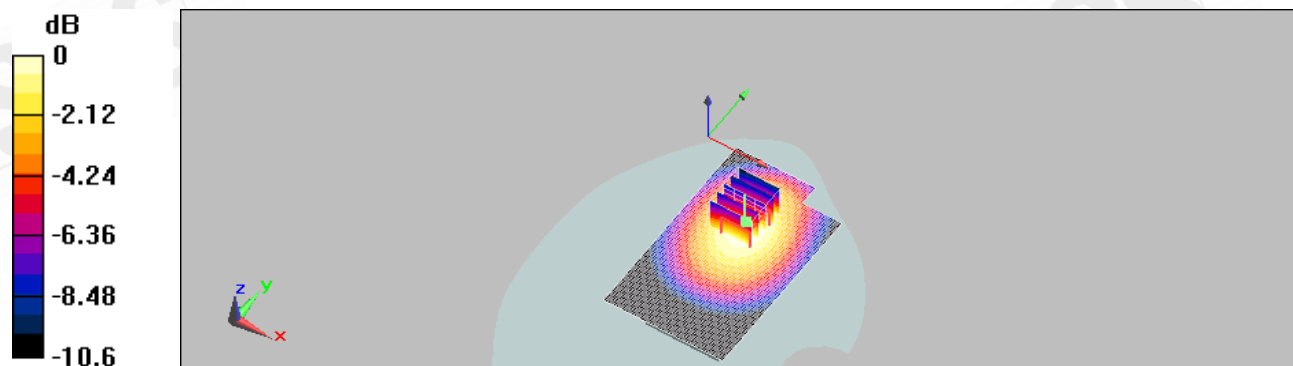
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.96 V/m; Power Drift = 0.048 dB
Peak SAR (extrapolated) = 0.675 W/kg

SAR(1 g) = 0.489 mW/g; SAR(10 g) = 0.350 mW/g
Maximum value of SAR (measured) = 0.517 mW/g



0 dB = 0.517mW/g

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Date/Time: 05/09/2009 00:16:14

BODY_CH1_WLAN802.11b

DUT: HERO130;

Communication System: Wireless LAN; Frequency: 2412 MHz; Duty Cycle: 1:1
 Medium: Body 2450 Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 51.7$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

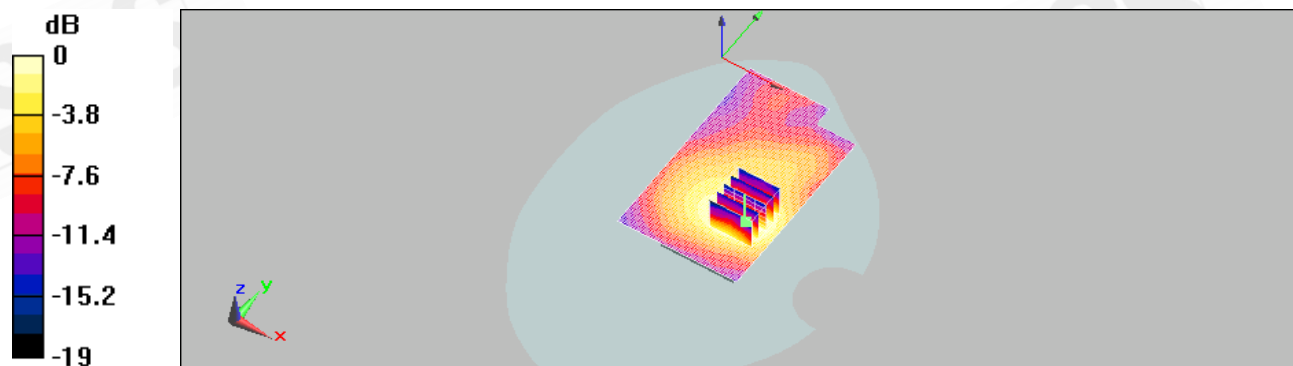
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(3.92, 3.92, 3.92); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.064 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 3.79 V/m; Power Drift = 0.197 dB
 Peak SAR (extrapolated) = 0.098 W/kg

SAR(1 g) = 0.057 mW/g; SAR(10 g) = 0.033 mW/g
 Maximum value of SAR (measured) = 0.061 mW/g



0 dB = 0.061mW/g

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Date/Time: 05/09/2009 00:43:26

BODY_CH6_WLAN802.11b

DUT: HERO130;

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
 Medium: Body 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.91 \text{ mho/m}$; $\epsilon_r = 51.7$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

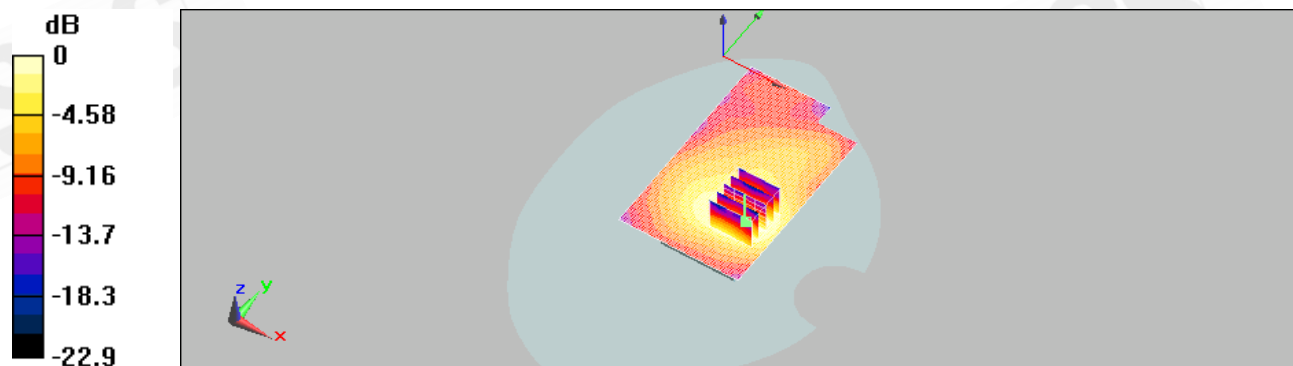
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(3.92, 3.92, 3.92); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.060 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 3.75 V/m; Power Drift = 0.119 dB
 Peak SAR (extrapolated) = 0.097 W/kg

SAR(1 g) = 0.056 mW/g; SAR(10 g) = 0.032 mW/g
 Maximum value of SAR (measured) = 0.060 mW/g



0 dB = 0.060mW/g

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Date/Time: 05/09/2009 01:12:33

BODY_CH11_WLAN802.11b

DUT: HERO130;

Communication System: Wireless LAN; Frequency: 2462 MHz; Duty Cycle: 1:1
 Medium: Body 2450 Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.93 \text{ mho/m}$; $\epsilon_r = 51.7$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

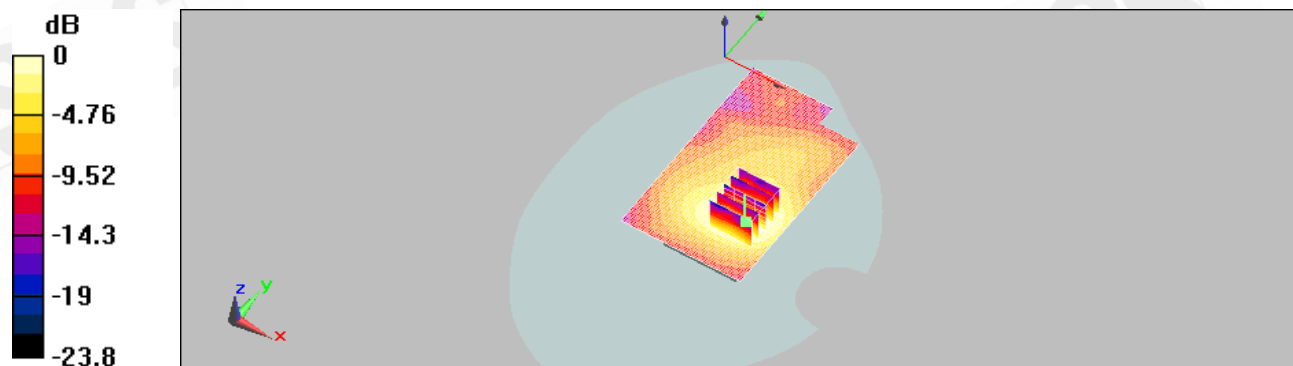
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(3.92, 3.92, 3.92); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.062 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 3.87 V/m; Power Drift = 0.140 dB
 Peak SAR (extrapolated) = 0.104 W/kg

SAR(1 g) = 0.059 mW/g; SAR(10 g) = 0.033 mW/g
 Maximum value of SAR (measured) = 0.063 mW/g



0 dB = 0.063mW/g

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Date/Time: 05/09/2009 03:02:00

BODY_CH11 repeated for EUT front to phantom_WLAN802.11b

DUT: HERO130;

Communication System: Wireless LAN; Frequency: 2462 MHz; Duty Cycle: 1:1
Medium: Body 2450 Medium parameters used: $f = 2462$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 51.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

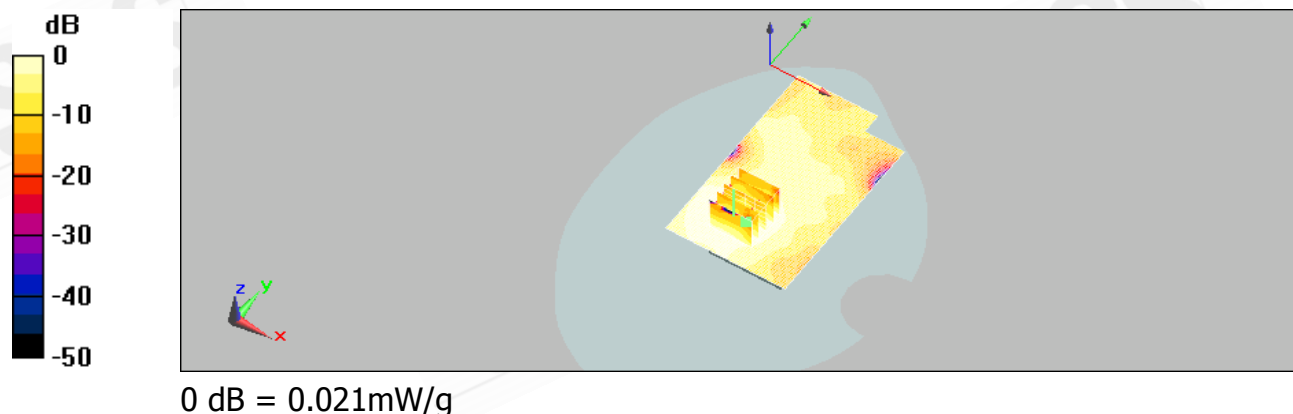
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(3.92, 3.92, 3.92); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.020 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.87 V/m; Power Drift = 0.124 dB
Peak SAR (extrapolated) = 0.031 W/kg

SAR(1 g) = 0.019 mW/g; SAR(10 g) = 0.011 mW/g
Maximum value of SAR (measured) = 0.021 mW/g



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Date/Time: 05/09/2009 03:29:15

BODY_CH11 repeated with Memory card_WLAN802.11b

DUT: HERO130;

Communication System: Wireless LAN; Frequency: 2462 MHz; Duty Cycle: 1:1
Medium: Body 2450 Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.93 \text{ mho/m}$; $\epsilon_r = 51.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

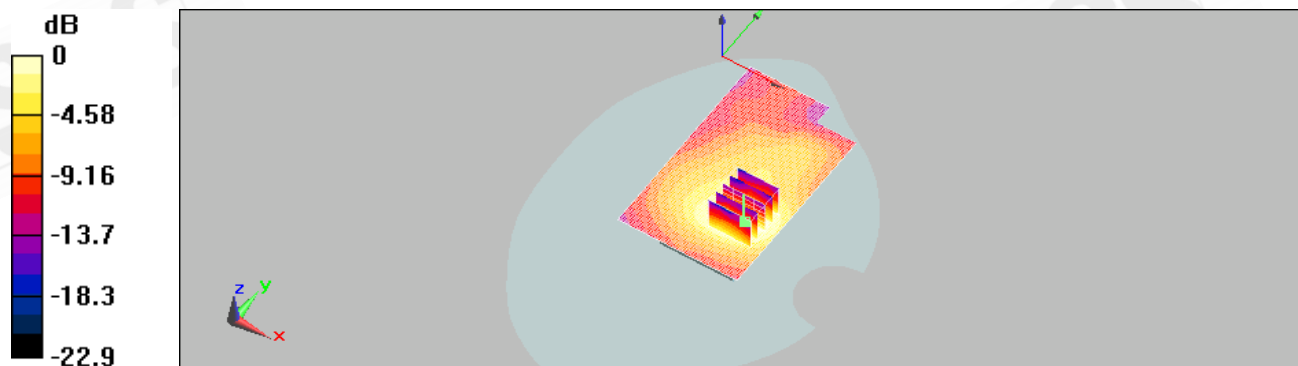
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(3.92, 3.92, 3.92); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.068 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 4 V/m; Power Drift = -0.145 dB
Peak SAR (extrapolated) = 0.104 W/kg

SAR(1 g) = 0.060 mW/g; SAR(10 g) = 0.034 mW/g
Maximum value of SAR (measured) = 0.065 mW/g



0 dB = 0.065mW/g

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Date/Time: 05/09/2009 03:55:35

BODY_CH11 repeated with Bluetooth active_WLAN802.11b

DUT: HERO130;

Communication System: Wireless LAN; Frequency: 2462 MHz; Duty Cycle: 1:1
Medium: Body 2450 Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.93 \text{ mho/m}$; $\epsilon_r = 51.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

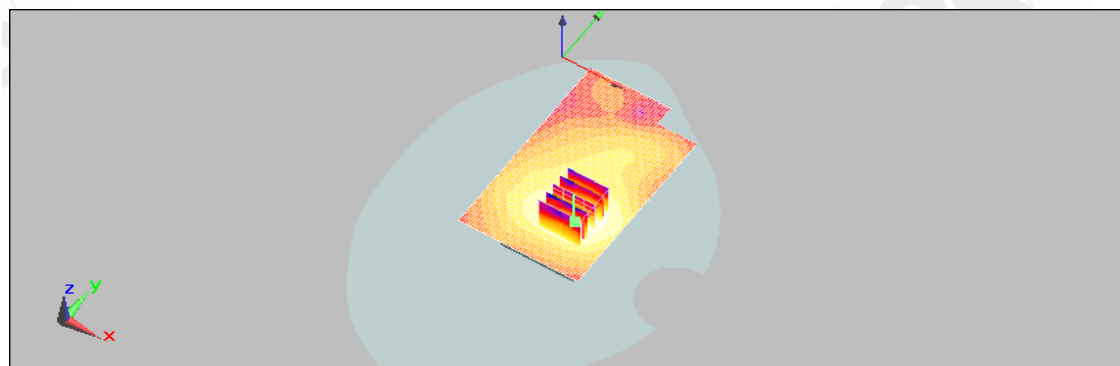
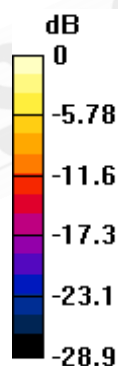
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(3.92, 3.92, 3.92); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.061 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 4.03 V/m; Power Drift = 0.172 dB
Peak SAR (extrapolated) = 0.099 W/kg

SAR(1 g) = 0.059 mW/g; SAR(10 g) = 0.033 mW/g
Maximum value of SAR (measured) = 0.064 mW/g



0 dB = 0.064mW/g

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Date/Time: 05/09/2009 04:22:34

BODY_CH11 repeated with Cotron headset_WLAN802.11b

DUT: HERO130;

Communication System: Wireless LAN; Frequency: 2462 MHz; Duty Cycle: 1:1
Medium: Body 2450 Medium parameters used: $f = 2462$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 51.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

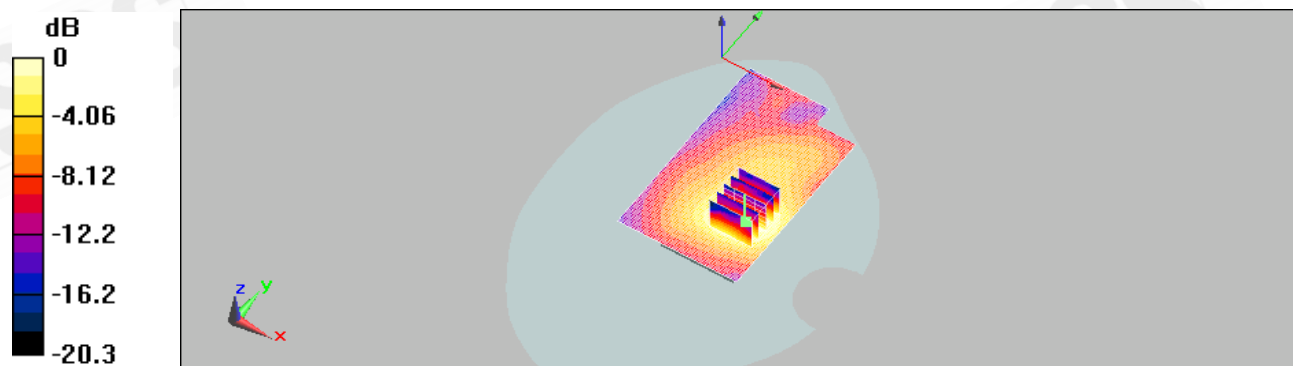
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(3.92, 3.92, 3.92); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.073 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.01 V/m; Power Drift = 0.000903 dB
Peak SAR (extrapolated) = 0.117 W/kg

SAR(1 g) = 0.068 mW/g; SAR(10 g) = 0.039 mW/g
Maximum value of SAR (measured) = 0.072 mW/g



0 dB = 0.072mW/g

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Date/Time: 05/09/2009 04:50:52

BODY_CH11 repeated with Merry headset_WLAN802.11b

DUT: HERO130;

Communication System: Wireless LAN; Frequency: 2462 MHz; Duty Cycle: 1:1
Medium: Body 2450 Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.93 \text{ mho/m}$; $\epsilon_r = 51.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

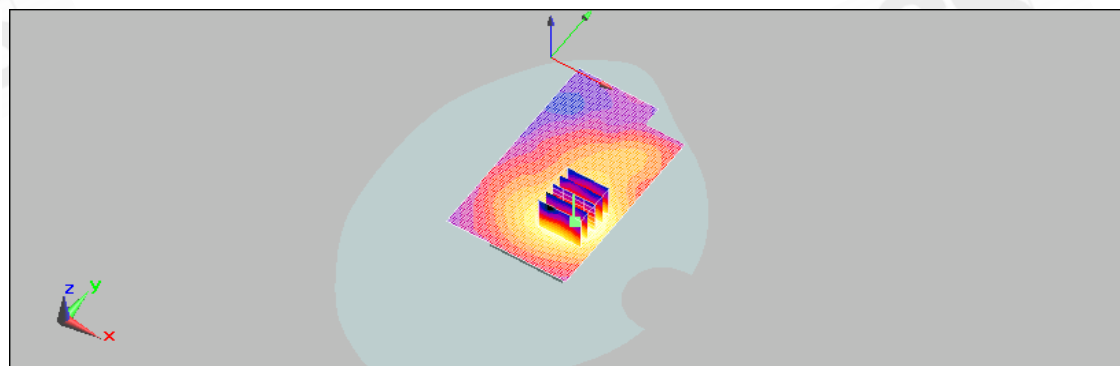
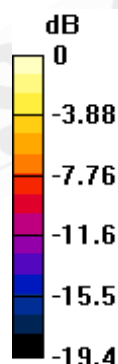
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(3.92, 3.92, 3.92); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.083 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 4.29 V/m; Power Drift = -0.025 dB
Peak SAR (extrapolated) = 0.136 W/kg

SAR(1 g) = 0.077 mW/g; SAR(10 g) = 0.044 mW/g
Maximum value of SAR (measured) = 0.082 mW/g



0 dB = 0.082mW/g

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Date/Time: 05/09/2009 05:17:12

BODY_CH11 repeated with HTE Battery_WLAN802.11b

DUT: HERO130;

Communication System: Wireless LAN; Frequency: 2462 MHz; Duty Cycle: 1:1
Medium: Body 2450 Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.93 \text{ mho/m}$; $\epsilon_r = 51.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

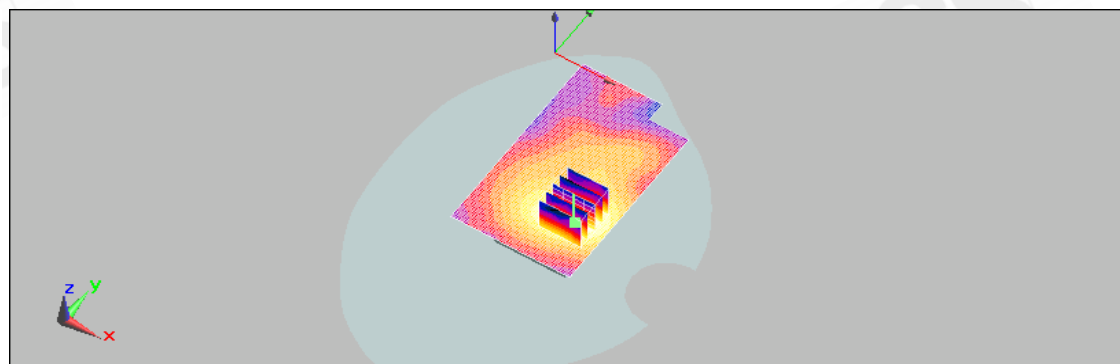
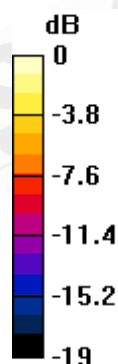
DASY5 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.55, 6.55, 6.55); Calibrated: 5/20/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.064 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 3.99 V/m; Power Drift = 0.178 dB
Peak SAR (extrapolated) = 0.105 W/kg

SAR(1 g) = 0.059 mW/g; SAR(10 g) = 0.034 mW/g
Maximum value of SAR (measured) = 0.064 mW/g



0 dB = 0.064mW/g

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Date/Time: 05/09/2009 05:43:14

BODY_CH11 repeated with Formosa Battery_WLAN802.11b

DUT: HERO130;

Communication System: Wireless LAN; Frequency: 2462 MHz; Duty Cycle: 1:1
Medium: Body 2450 Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.93 \text{ mho/m}$; $\epsilon_r = 51.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

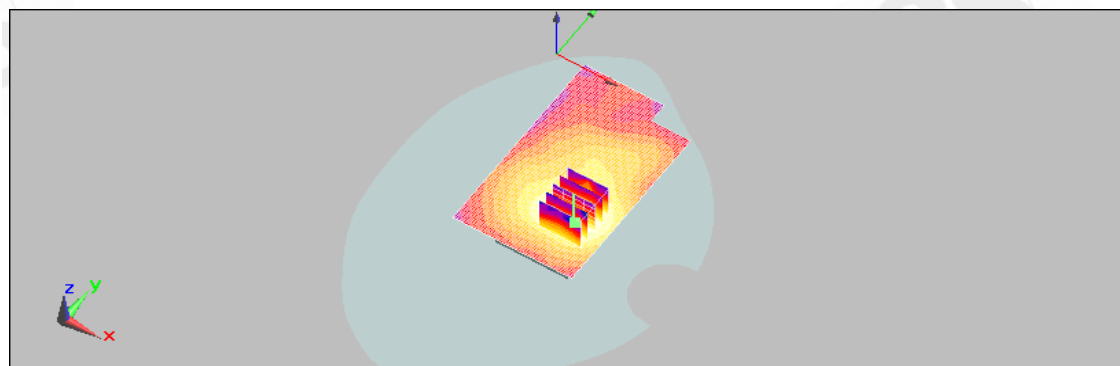
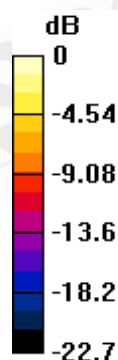
DASY5 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.55, 6.55, 6.55); Calibrated: 5/20/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.073 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 4.19 V/m; Power Drift = -0.033 dB
Peak SAR (extrapolated) = 0.116 W/kg

SAR(1 g) = 0.067 mW/g; SAR(10 g) = 0.039 mW/g
Maximum value of SAR (measured) = 0.073 mW/g



0 dB = 0.073mW/g

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Date/Time: 05/09/2009 01:40:18

BODY_CH1_WLAN 802.11g

DUT: HERO130;

Communication System: Wireless LAN; Frequency: 2412 MHz; Duty Cycle: 1:1
Medium: Body 2450 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 51.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

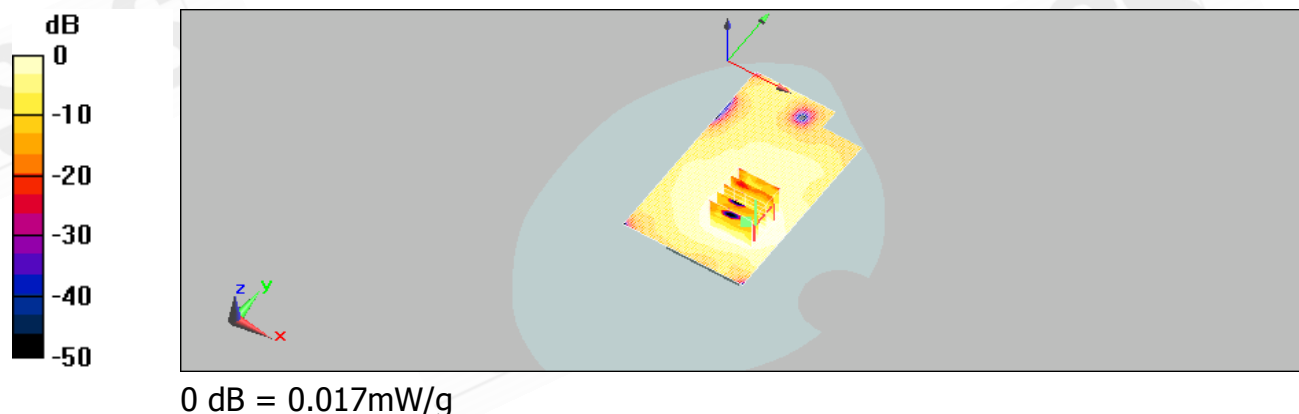
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(3.92, 3.92, 3.92); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.019 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.88 V/m; Power Drift = 0.191 dB
Peak SAR (extrapolated) = 0.029 W/kg

SAR(1 g) = 0.017 mW/g; SAR(10 g) = 0.00908 mW/g
Maximum value of SAR (measured) = 0.017 mW/g



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Date/Time: 05/09/2009 02:07:39

BODY_CH6_WLAN802.11g

DUT: HERO130;

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium: Body 2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.91 \text{ mho/m}$; $\epsilon_r = 51.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

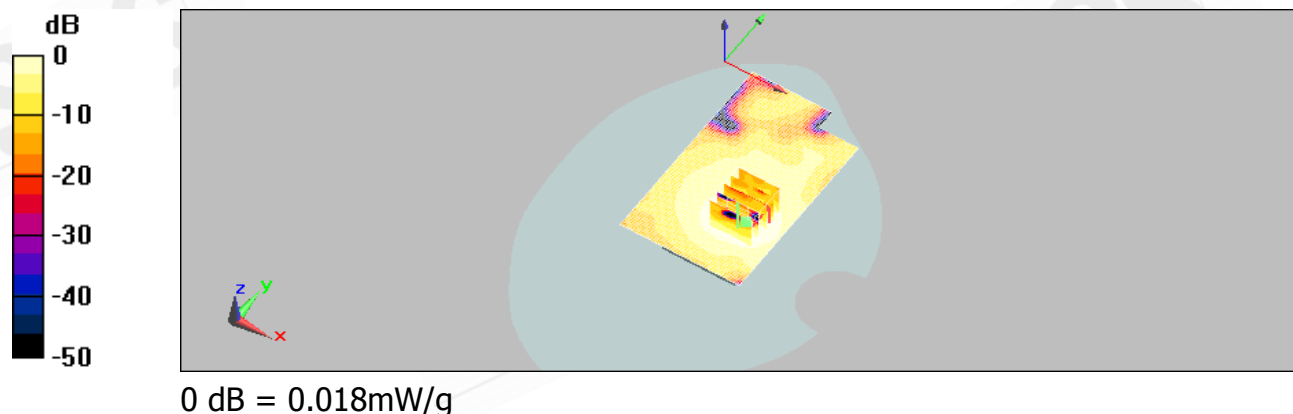
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(3.92, 3.92, 3.92); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.017 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 1.76 V/m; Power Drift = -0.196 dB
Peak SAR (extrapolated) = 0.029 W/kg

SAR(1 g) = 0.016 mW/g; SAR(10 g) = 0.00864 mW/g
Maximum value of SAR (measured) = 0.018 mW/g



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Date/Time: 05/09/2009 02:36:05

BODY_CH11_WLAN802.11g

DUT: HERO130;

Communication System: Wireless LAN; Frequency: 2462 MHz; Duty Cycle: 1:1
 Medium: Body 2450 Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.93 \text{ mho/m}$; $\epsilon_r = 51.7$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

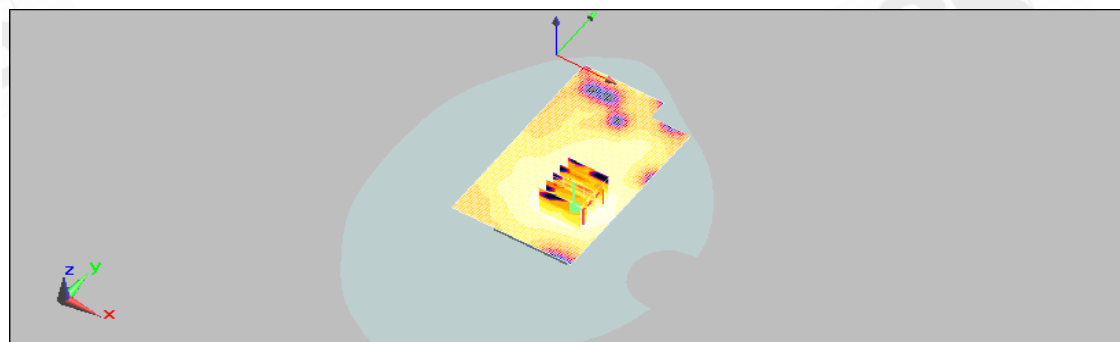
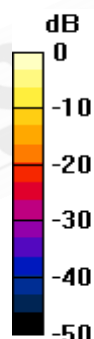
DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(3.92, 3.92, 3.92); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.017 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 1.94 V/m; Power Drift = 0.185 dB
 Peak SAR (extrapolated) = 0.024 W/kg

SAR(1 g) = 0.016 mW/g; SAR(10 g) = 0.00921 mW/g
 Maximum value of SAR (measured) = 0.018 mW/g



0 dB = 0.018mW/g

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Date/Time: 05/30/2009 02:06:17

LE Cheek_CH251_(Second solution)

DUT: HERO130;

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

Medium: Head 900 Medium parameters used: $f = 849$ MHz; $\sigma = 0.881$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.93, 10.93, 10.93); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.614 mW/g

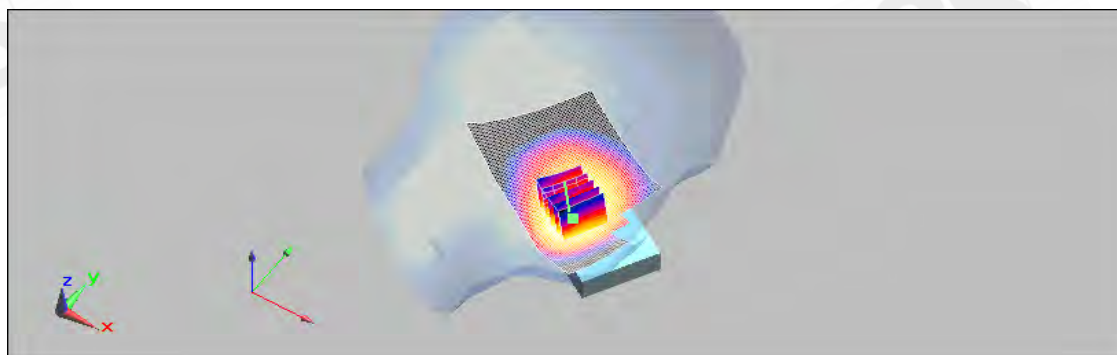
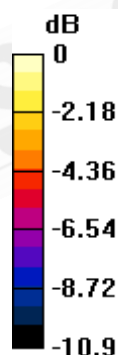
LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.1 V/m; Power Drift = -0.047 dB

Peak SAR (extrapolated) = 0.769 W/kg

SAR(1 g) = 0.578 mW/g; SAR(10 g) = 0.425 mW/g

Maximum value of SAR (measured) = 0.600 mW/g



0 dB = 0.600mW/g

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Date/Time: 05/30/2009 06:34:13

BODY_CH251_(Second solution)

DUT: HERO130;

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:4
Medium: BODY 900 Medium parameters used: $f = 849$ MHz; $\sigma = 0.975$ mho/m; $\epsilon_r = 55.9$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

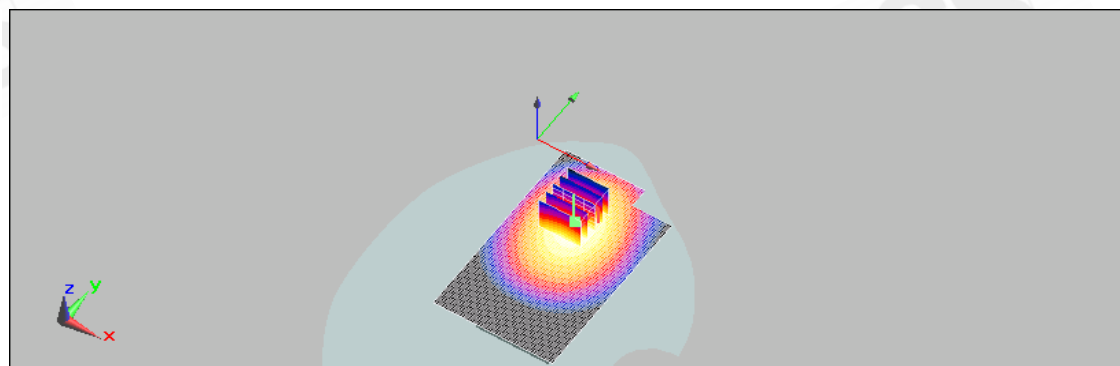
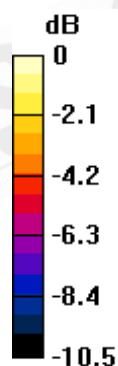
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.87, 10.87, 10.87); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.07 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.09 V/m; Power Drift = -0.152 dB
Peak SAR (extrapolated) = 1.36 W/kg

SAR(1 g) = 0.985 mW/g; SAR(10 g) = 0.705 mW/g
Maximum value of SAR (measured) = 1.04 mW/g



0 dB = 1.04mW/g

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Date/Time: 05/30/2009 13:37:33

LE Cheek_CH661_(Second solution)

DUT: HERO130;

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3
Medium: Head 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 38.6$; $\rho = 1000$ kg/m³
Phantom section: Left Section

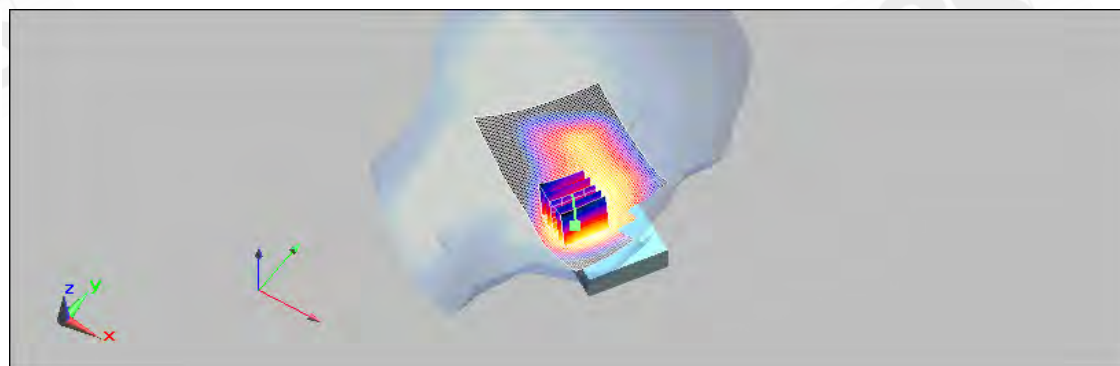
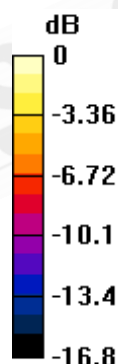
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.46, 9.46, 9.46); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.13 mW/g

LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.6 V/m; Power Drift = -0.065 dB
Peak SAR (extrapolated) = 1.55 W/kg

SAR(1 g) = 0.991 mW/g; SAR(10 g) = 0.616 mW/g
Maximum value of SAR (measured) = 1.07 mW/g



0 dB = 1.07mW/g

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Date/Time: 05/30/2009 17:52:51

BODY_CH661_(Second solution)

DUT: HERO130;

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:4
 Medium: BODY 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

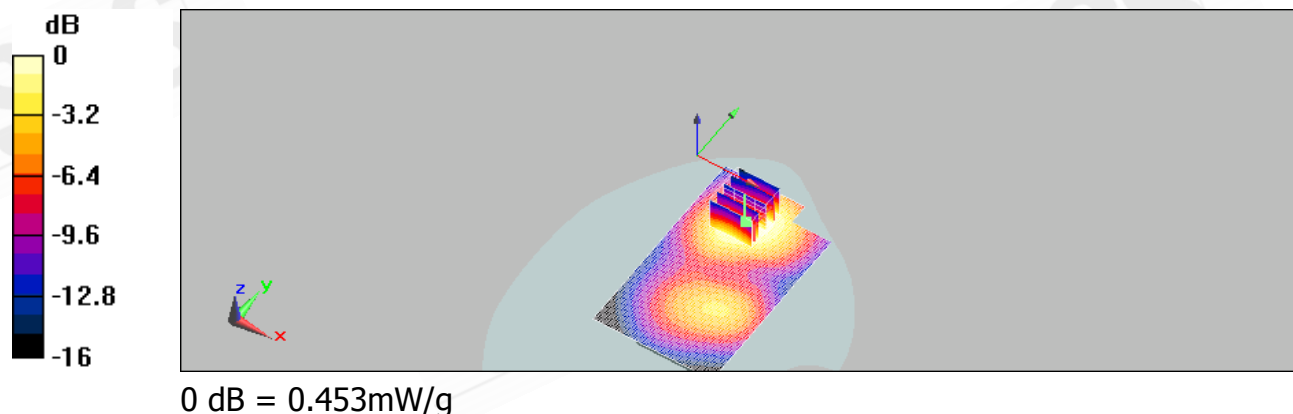
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.28, 9.28, 9.28); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 0.468 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 8.23 V/m; Power Drift = 0.055 dB
 Peak SAR (extrapolated) = 0.684 W/kg

SAR(1 g) = 0.424 mW/g; SAR(10 g) = 0.260 mW/g
 Maximum value of SAR (measured) = 0.453 mW/g



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Date/Time: 05/30/2009 15:02:51

LE Cheek_CH9538 repeated with Memory card_(Second solution)

DUT: HERO130;

Communication System: WCDMA B2; Frequency: 1907.6 MHz; Duty Cycle: 1:1
 Medium: Head 1900 Medium parameters used: $f = 1908$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.46, 9.46, 9.46); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 1.76 mW/g

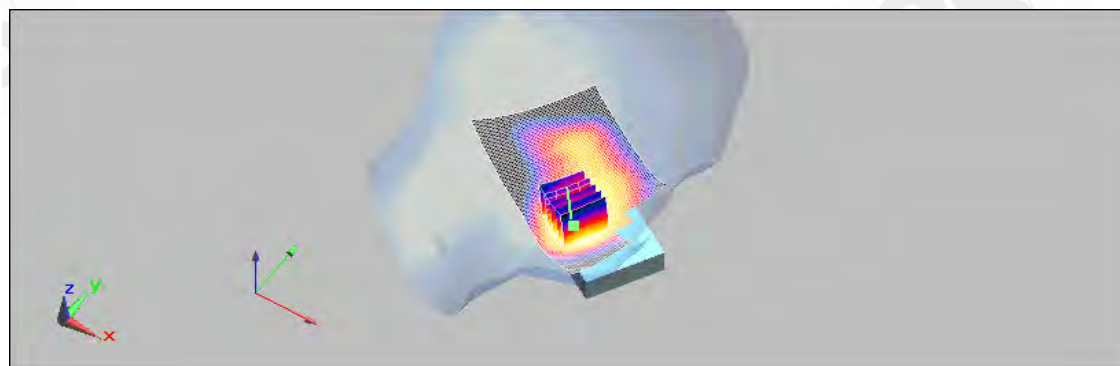
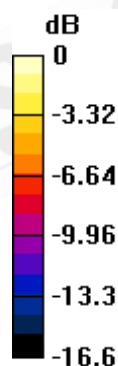
LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.4 V/m; Power Drift = -0.00332 dB

Peak SAR (extrapolated) = 2.58 W/kg

SAR(1 g) = 1.52 mW/g; SAR(10 g) = 0.991 mW/g

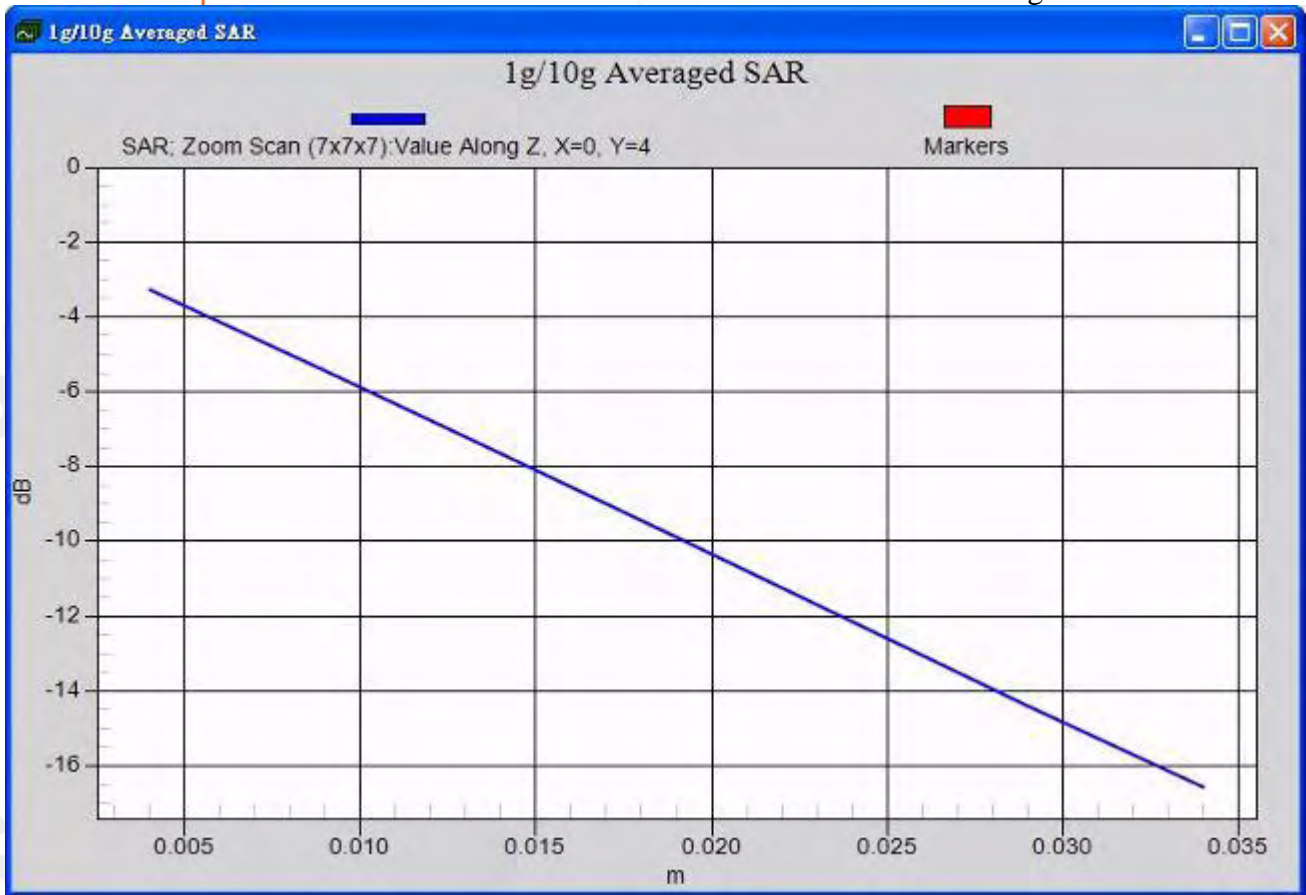
Maximum value of SAR (measured) = 1.72 mW/g



0 dB = 1.72mW/g

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Date/Time: 05/30/2009 19:14:34

BODY_CH9400 _(Second solution)

DUT: HERO130;

Communication System: WCDMA B2; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: Body 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

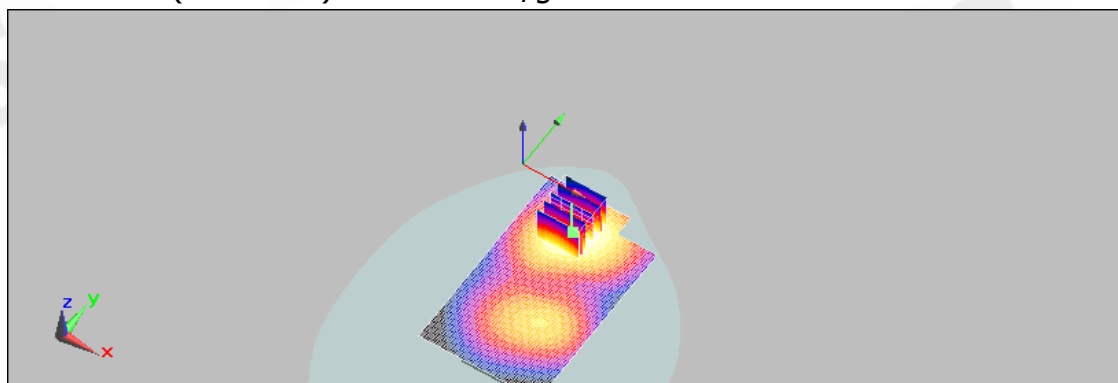
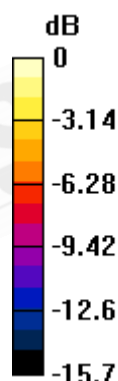
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.28, 9.28, 9.28); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.405 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.34 V/m; Power Drift = 0.196 dB
Peak SAR (extrapolated) = 0.610 W/kg

SAR(1 g) = 0.377 mW/g; SAR(10 g) = 0.231 mW/g
Maximum value of SAR (measured) = 0.402 mW/g



0 dB = 0.402mW/g

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Date/Time: 05/30/2009 19:42:49

BODY_CH9400 repeated with HSDPA mode_(Second solution)

DUT: HERO130;

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

Medium: Body 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.28, 9.28, 9.28); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (interpolated) = 0.402 mW/g

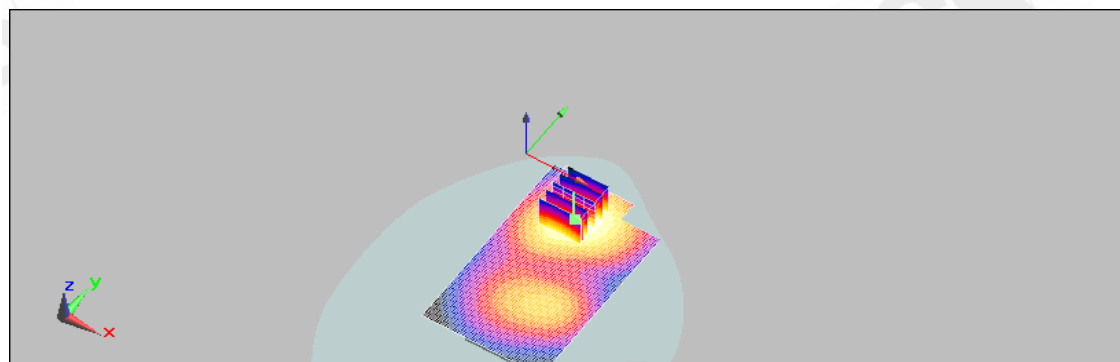
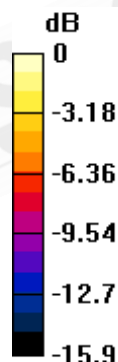
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.15 V/m; Power Drift = 0.138 dB

Peak SAR (extrapolated) = 0.590 W/kg

SAR(1 g) = 0.365 mW/g; SAR(10 g) = 0.224 mW/g

Maximum value of SAR (measured) = 0.387 mW/g



0 dB = 0.387mW/g

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Date/Time: 05/30/2009 20:08:07

BODY_CH9400 repeated with HSUPA mode_(Second solution)

DUT: HERO130;

Communication System: WCDMA B2; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: BODY 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

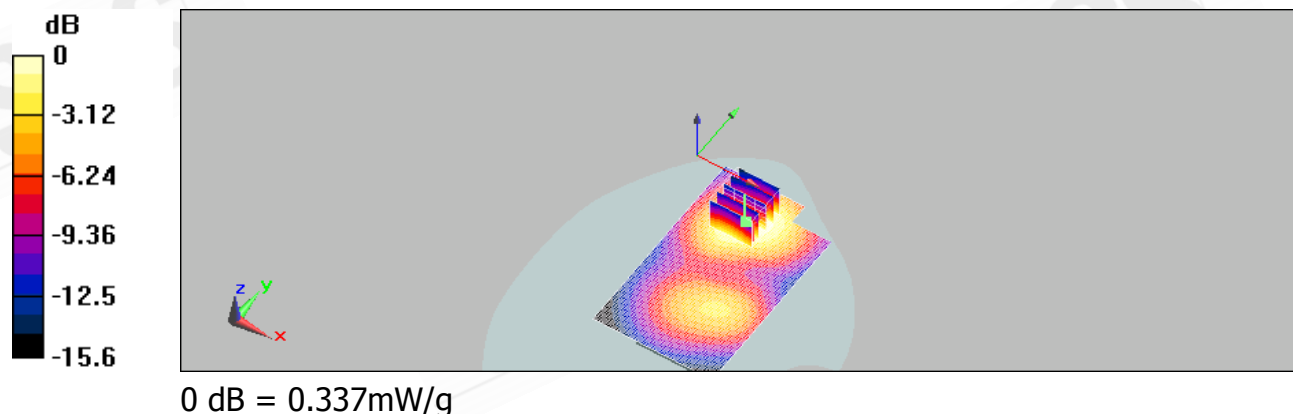
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.28, 9.28, 9.28); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.343 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.43 V/m; Power Drift = 0.130 dB
Peak SAR (extrapolated) = 0.506 W/kg

SAR(1 g) = 0.315 mW/g; SAR(10 g) = 0.195 mW/g
Maximum value of SAR (measured) = 0.337 mW/g



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Date/Time: 05/30/2009 03:36:20

RE Cheek_CH4183_(Second solution)

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: Head 900 Medium parameters used: $f = 837$ MHz; $\sigma = 0.859$ mho/m; $\epsilon_r = 39.9$; $\rho = 1000$ kg/m³
Phantom section: Right Section

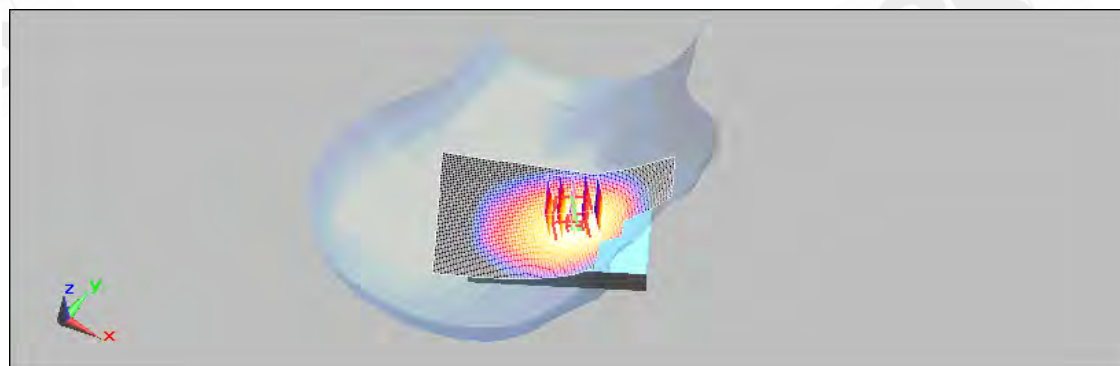
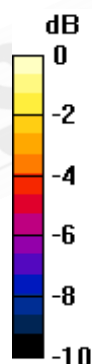
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.93, 10.93, 10.93); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.521 mW/g

RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.8 V/m; Power Drift = 0.166 dB
Peak SAR (extrapolated) = 0.603 W/kg

SAR(1 g) = 0.502 mW/g; SAR(10 g) = 0.384 mW/g
Maximum value of SAR (measured) = 0.529 mW/g



0 dB = 0.529mW/g

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Date/Time: 05/30/2009 07:57:25

BODY_CH4183_(Second solution)

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: BODY 900 Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.969 \text{ mho/m}$; $\epsilon_r = 56$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

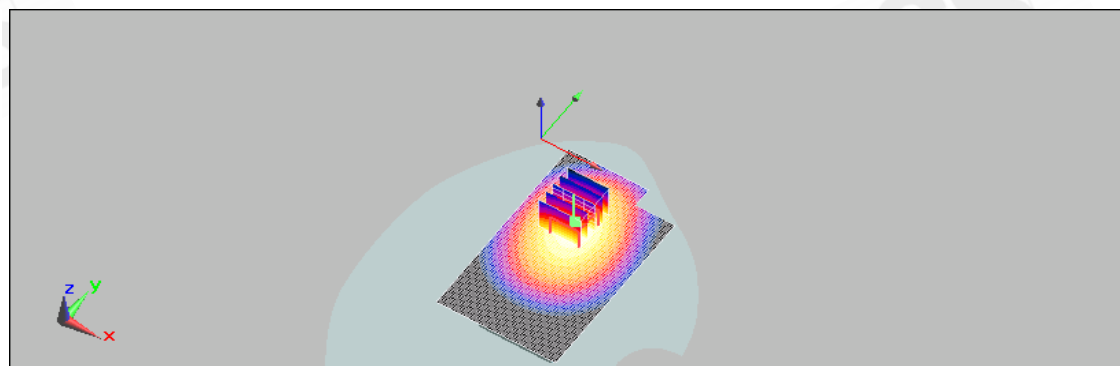
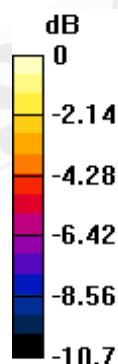
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.87, 10.87, 10.87); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.584 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 7.52 V/m; Power Drift = 0.146 dB
Peak SAR (extrapolated) = 0.758 W/kg

SAR(1 g) = 0.553 mW/g; SAR(10 g) = 0.396 mW/g
Maximum value of SAR (measured) = 0.582 mW/g



0 dB = 0.582mW/g

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Date/Time: 05/30/2009 08:26:57

BODY_CH4183 repeated with HSDPA mode_(Second solution)

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: Body 900 Medium parameters used: $f = 837$ MHz; $\sigma = 0.969$ mho/m; $\epsilon_r = 56$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

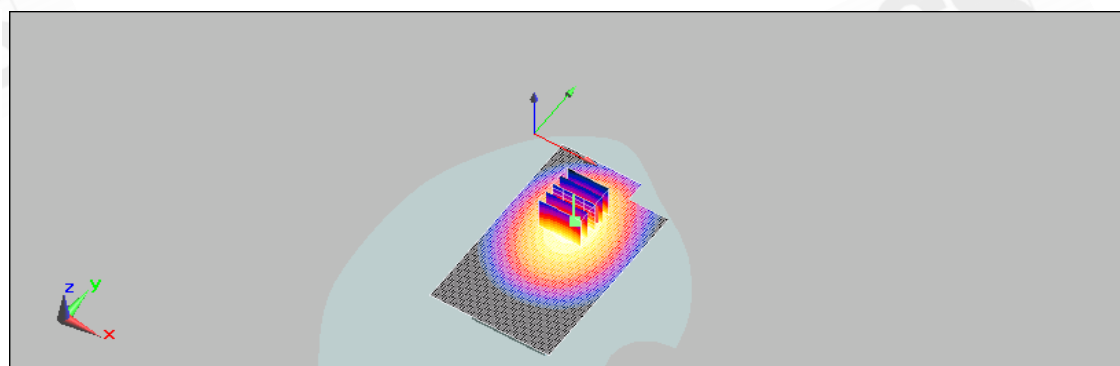
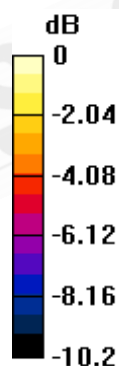
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.87, 10.87, 10.87); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.568 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.58 V/m; Power Drift = 0.043 dB
Peak SAR (extrapolated) = 0.736 W/kg

SAR(1 g) = 0.536 mW/g; SAR(10 g) = 0.383 mW/g
Maximum value of SAR (measured) = 0.569 mW/g



0 dB = 0.569mW/g

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Date/Time: 05/30/2009 08:52:59

BODY_CH4183 repeated with HSUPA mode_(Second solution)

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: Body 900 Medium parameters used: $f = 837$ MHz; $\sigma = 0.969$ mho/m; $\epsilon_r = 56$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

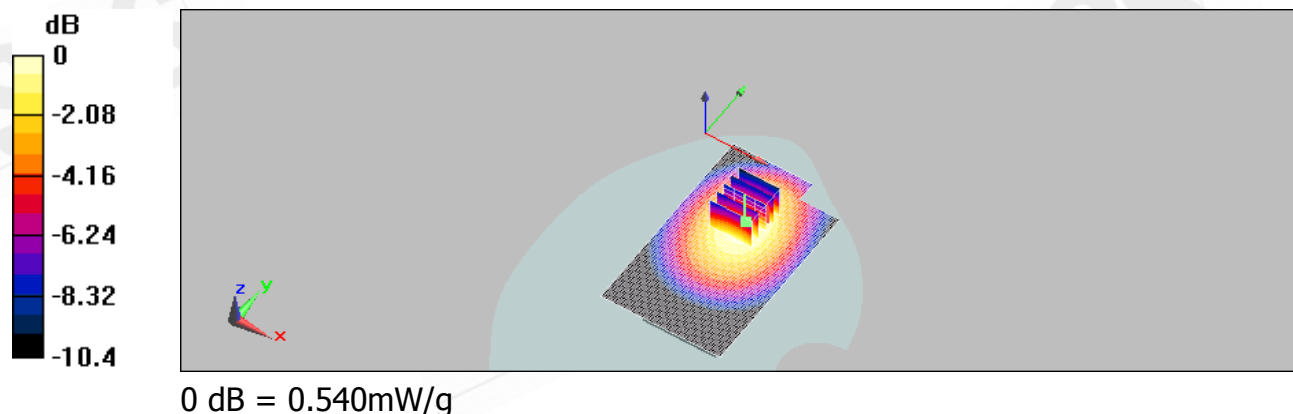
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.87, 10.87, 10.87); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.534 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.36 V/m; Power Drift = -0.00971 dB
Peak SAR (extrapolated) = 0.689 W/kg

SAR(1 g) = 0.505 mW/g; SAR(10 g) = 0.359 mW/g
Maximum value of SAR (measured) = 0.540 mW/g



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Date/Time: 06/01/2009 15:41:29

BODY_CH11 repeated with Merry headset_WLAN802.11 b_(Second solution)

DUT: HERO130;

Communication System: Wireless LAN; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: Body 2450 Medium parameters used: $f = 2462$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 50.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.18, 8.18, 8.18); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (interpolated) = 0.087 mW/g

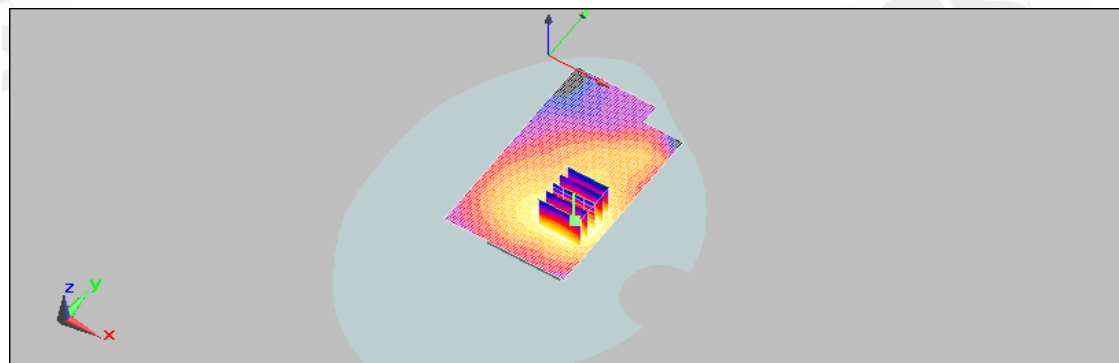
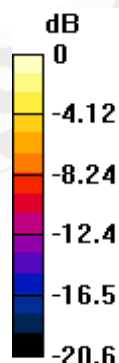
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.41 V/m; Power Drift = 0.144 dB

Peak SAR (extrapolated) = 0.146 W/kg

SAR(1 g) = 0.084 mW/g; SAR(10 g) = 0.047 mW/g

Maximum value of SAR (measured) = 0.089 mW/g



0 dB = 0.089mW/g

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Date/Time: 06/01/2009 16:08:45

BODY_CH1_WLAN802.11g_(Second solution)

DUT: HERO130;

Communication System: Wireless LAN; Frequency: 2412 MHz; Duty Cycle: 1:1
Medium: Body 2450 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 50.1$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

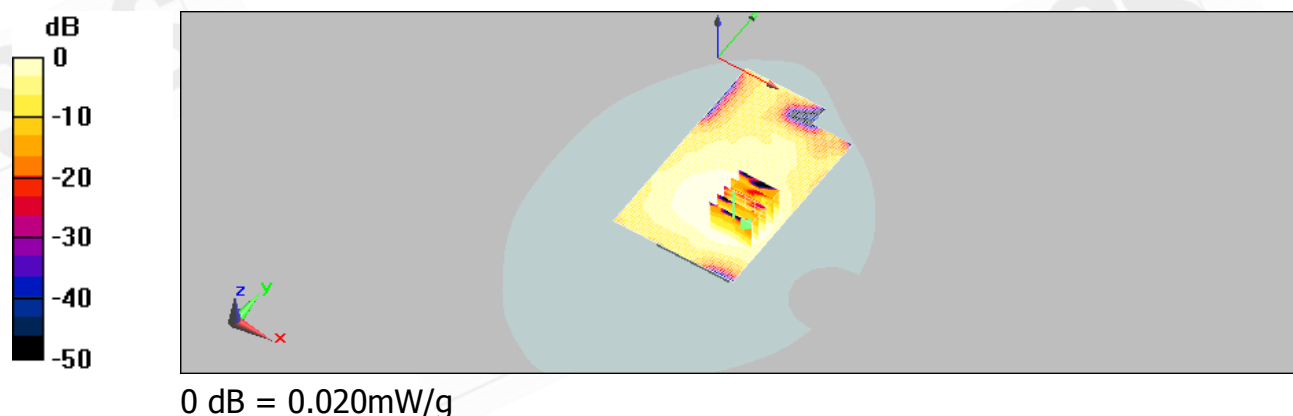
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.18, 8.18, 8.18); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.021 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.07 V/m; Power Drift = 0.169 dB
Peak SAR (extrapolated) = 0.033 W/kg

SAR(1 g) = 0.019 mW/g; SAR(10 g) = 0.010 mW/g
Maximum value of SAR (measured) = 0.020 mW/g



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Date/Time: 05/30/2009 02:34:44

LE Cheek_CH251_(Third solution)

DUT: HERO130;

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3
Medium: Head 900 Medium parameters used: $f = 849$ MHz; $\sigma = 0.881$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³
Phantom section: Left Section

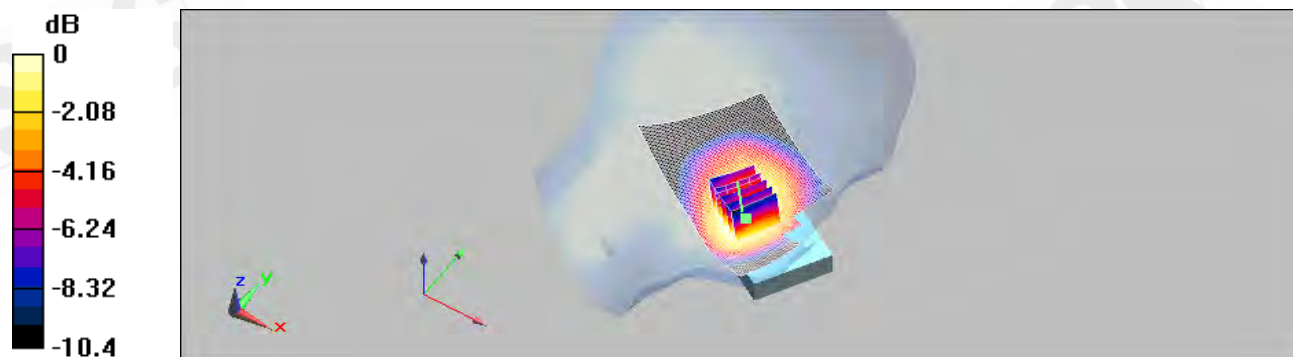
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.93, 10.93, 10.93); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.550 mW/g

LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.7 V/m; Power Drift = 0.068 dB
Peak SAR (extrapolated) = 0.691 W/kg

SAR(1 g) = 0.533 mW/g; SAR(10 g) = 0.394 mW/g
Maximum value of SAR (measured) = 0.554 mW/g



0 dB = 0.554mW/g

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Date/Time: 05/30/2009 07:01:03

BODY_CH251_(Third solution)

DUT: HERO130;

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:4
Medium: BODY 900 Medium parameters used: $f = 849$ MHz; $\sigma = 0.975$ mho/m; $\epsilon_r = 55.9$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

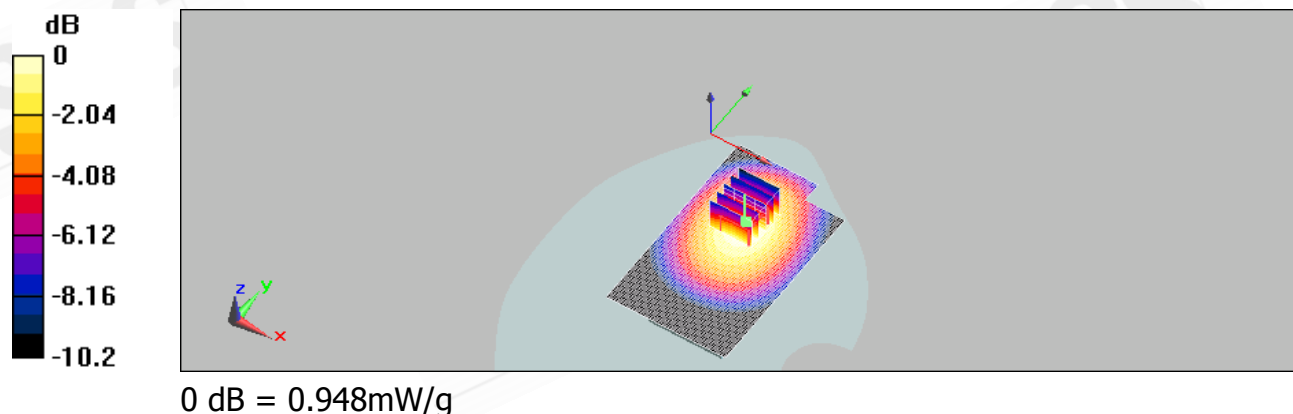
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.87, 10.87, 10.87); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.956 mW/g

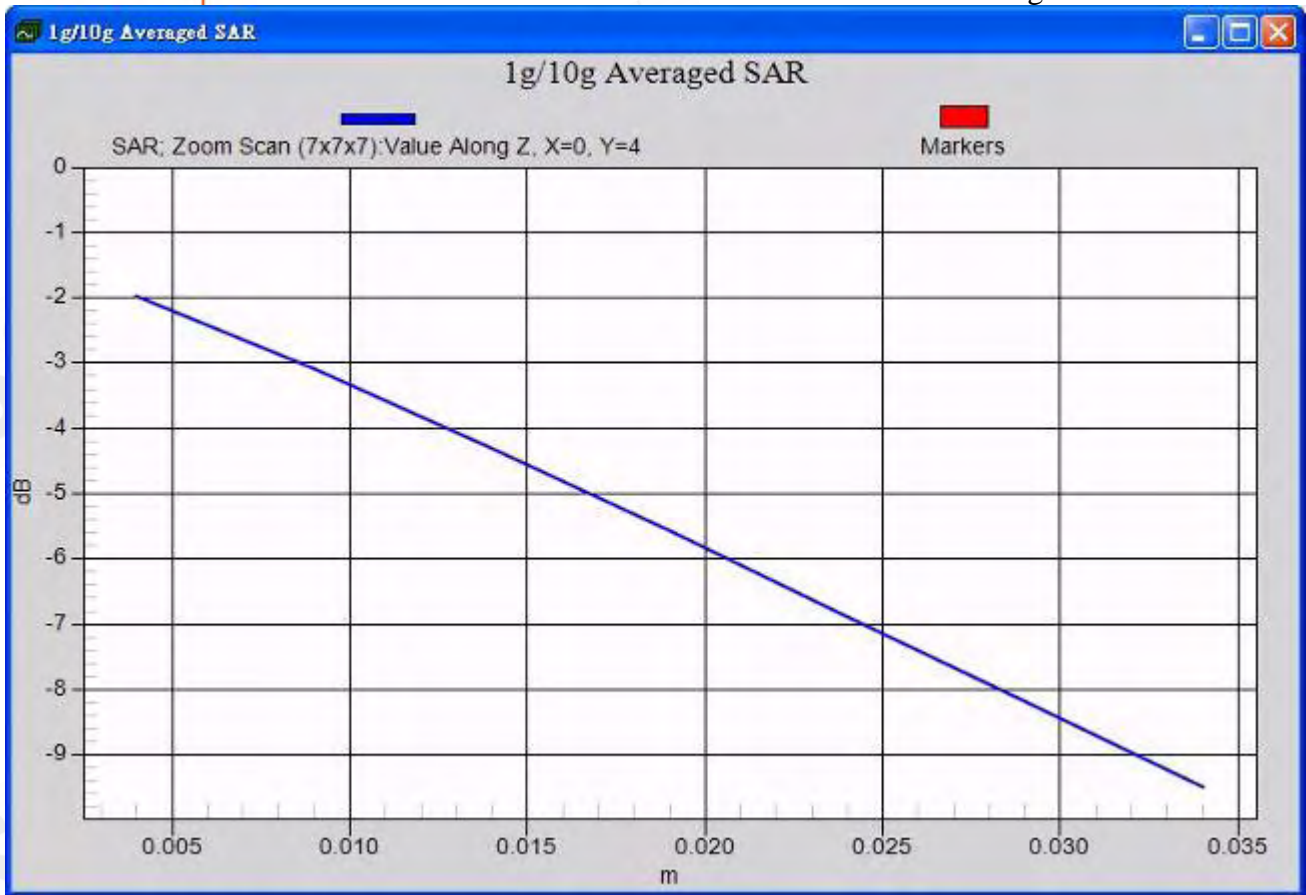
BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.2 V/m; Power Drift = -0.096 dB
Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.898 mW/g; SAR(10 g) = 0.647 mW/g
Maximum value of SAR (measured) = 0.948 mW/g



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Date/Time: 05/30/2009 14:05:31

LE Cheek_CH661_(Third solution)

DUT: HERO130;

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: Head 1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.42 \text{ mho/m}$; $\epsilon_r = 38.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.46, 9.46, 9.46); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 1.28 mW/g

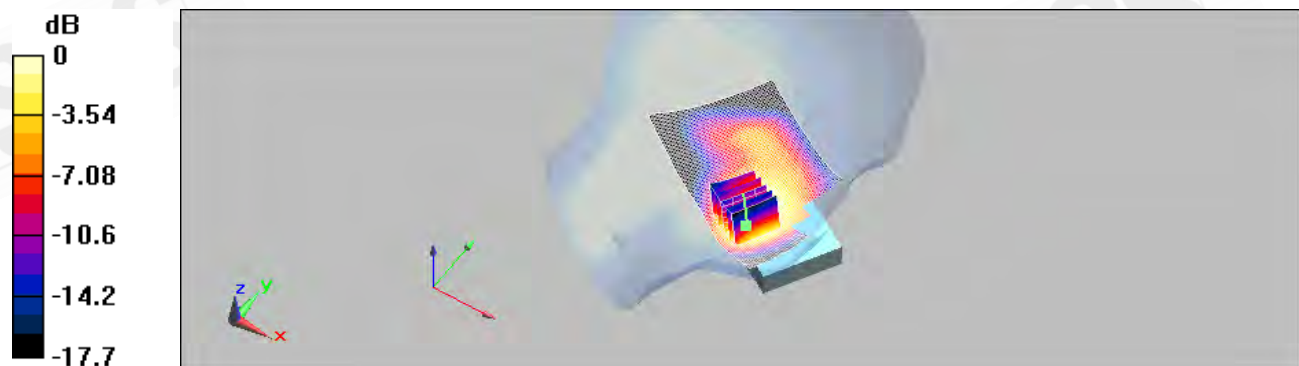
LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.7 V/m; Power Drift = -0.134 dB

Peak SAR (extrapolated) = 1.75 W/kg

SAR(1 g) = 1.06 mW/g; SAR(10 g) = 0.669 mW/g

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



0 dB = 1.15mW/g

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Date/Time: 05/30/2009 18:20:28

BODY_CH661_(Third solution)

DUT: HERO130;

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:4
 Medium: BODY 1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.55 \text{ mho/m}$; $\epsilon_r = 53.2$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

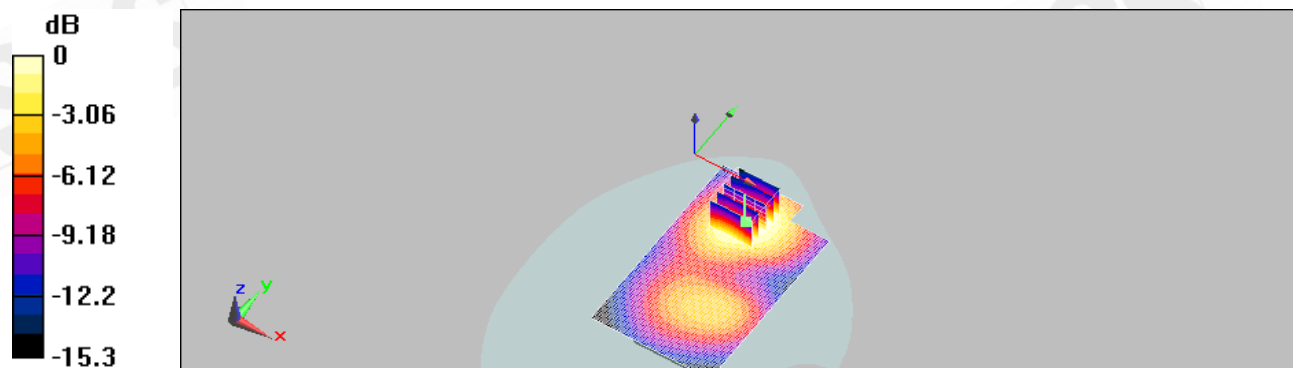
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.28, 9.28, 9.28); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.393 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 8.07 V/m; Power Drift = 0.164 dB
 Peak SAR (extrapolated) = 0.580 W/kg

SAR(1 g) = 0.359 mW/g; SAR(10 g) = 0.222 mW/g
 Maximum value of SAR (measured) = 0.385 mW/g



0 dB = 0.385mW/g

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Date/Time: 05/30/2009 15:29:53

LE Cheek_CH9538 repeated with Memory card_(Third solution)

DUT: HERO130;

Communication System: WCDMA B2; Frequency: 1907.6 MHz; Duty Cycle: 1:1
 Medium: Head 1900 Medium parameters used: $f = 1908$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.46, 9.46, 9.46); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 1.78 mW/g

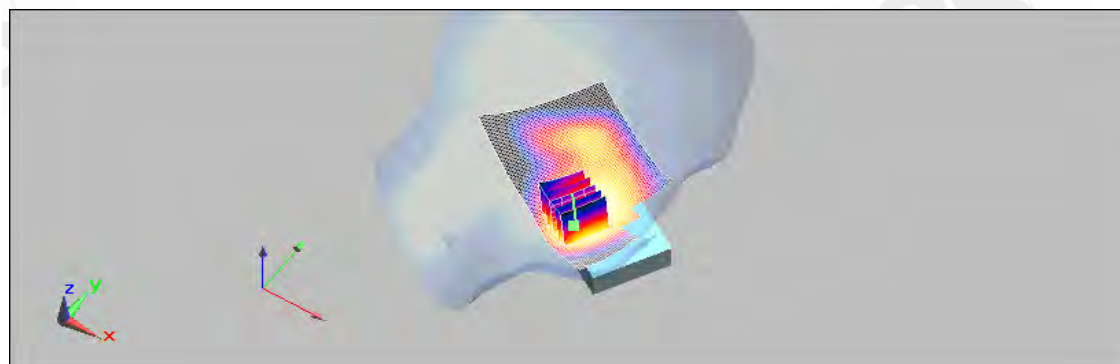
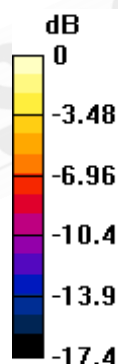
LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.4 V/m; Power Drift = -0.041 dB

Peak SAR (extrapolated) = 2.4 W/kg

SAR(1 g) = 1.53 mW/g; SAR(10 g) = 0.982 mW/g

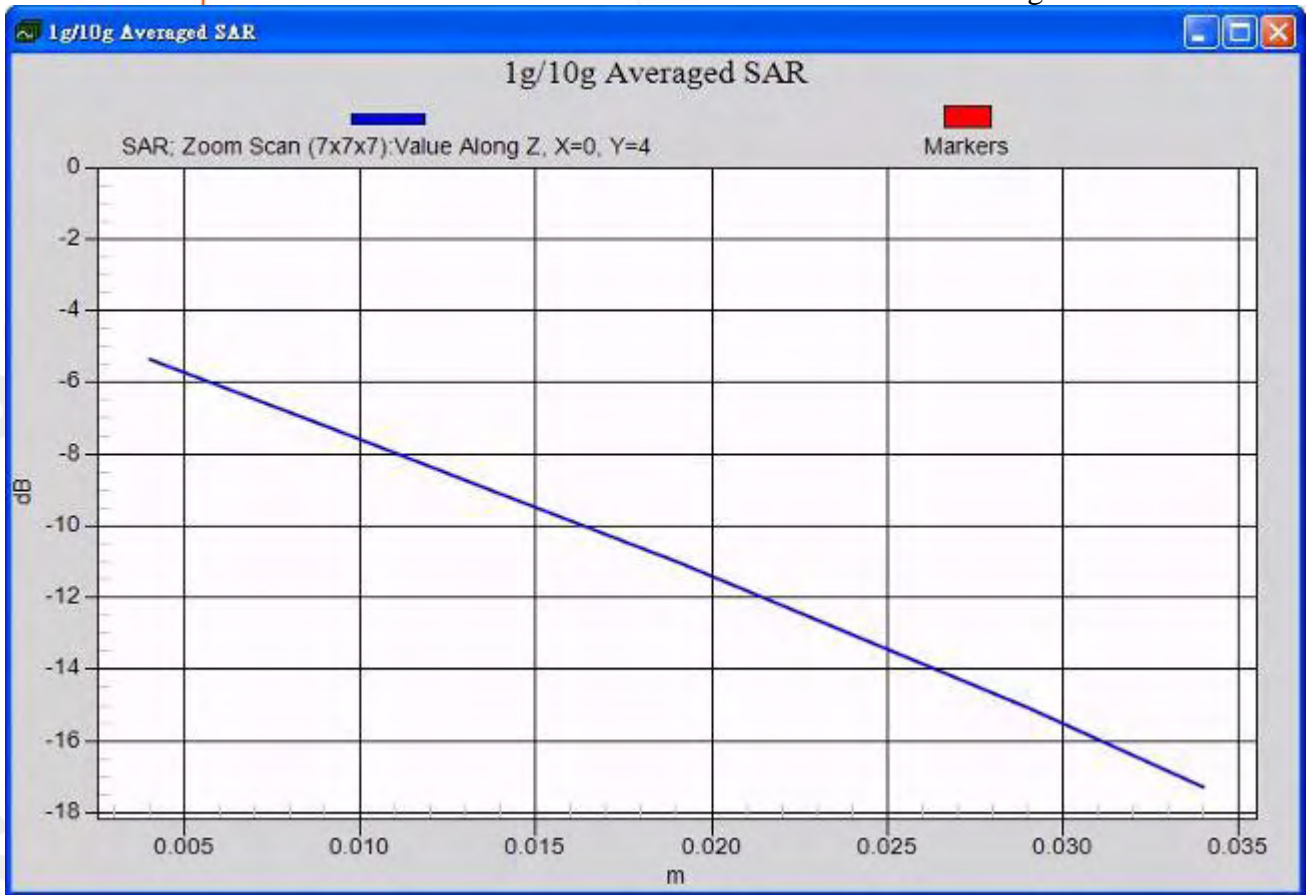
Maximum value of SAR (measured) = 1.65 mW/g



0 dB = 1.65mW/g

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Date/Time: 05/30/2009 20:37:25

BODY_CH9400_(Third solution)

DUT: HERO130;

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

Medium: Body 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.28, 9.28, 9.28); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (interpolated) = 0.394 mW/g

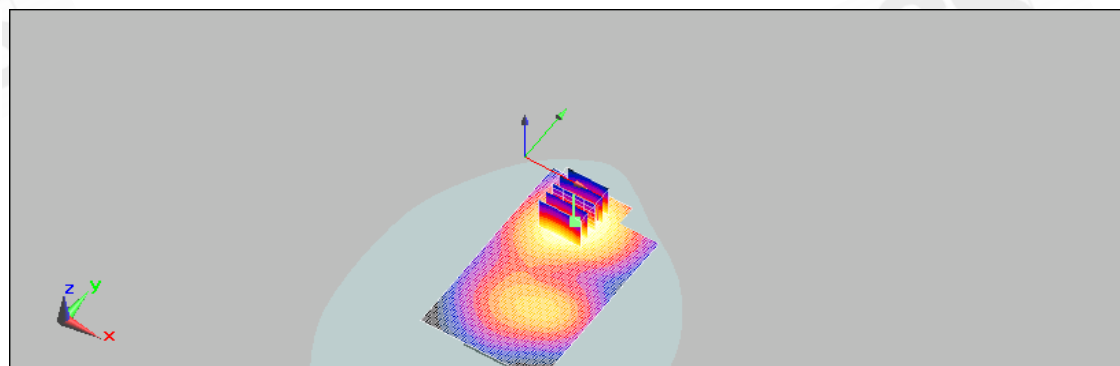
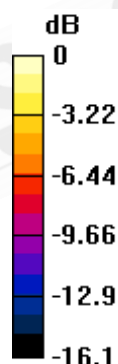
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.83 V/m; Power Drift = 0.092 dB

Peak SAR (extrapolated) = 0.584 W/kg

SAR(1 g) = 0.362 mW/g; SAR(10 g) = 0.223 mW/g

Maximum value of SAR (measured) = 0.390 mW/g



0 dB = 0.390mW/g

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Date/Time: 05/30/2009 21:03:03

BODY_CH9400 repeated with HSDPA mode_(Third solution)

DUT: HERO130;

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

Medium: Body 1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.55 \text{ mho/m}$; $\epsilon_r = 53.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.28, 9.28, 9.28); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (interpolated) = 0.378 mW/g

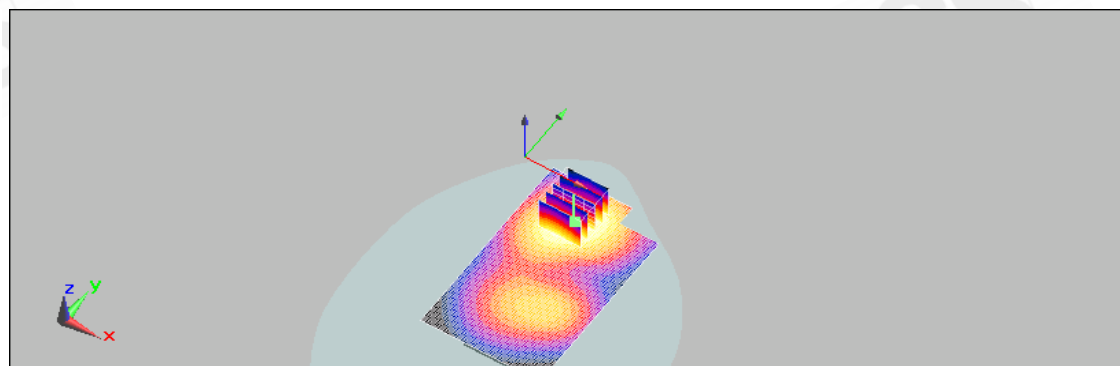
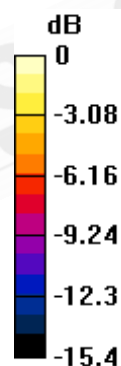
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.28 V/m; Power Drift = 0.161 dB

Peak SAR (extrapolated) = 0.565 W/kg

SAR(1 g) = 0.351 mW/g; SAR(10 g) = 0.218 mW/g

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



0 dB = 0.376mW/g

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Date/Time: 05/30/2009 21:31:51

BODY_CH9400 repeated with HSUPA mode_(Third solution)

DUT: HERO130;

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

Medium: BODY 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.28, 9.28, 9.28); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (interpolated) = 0.366 mW/g

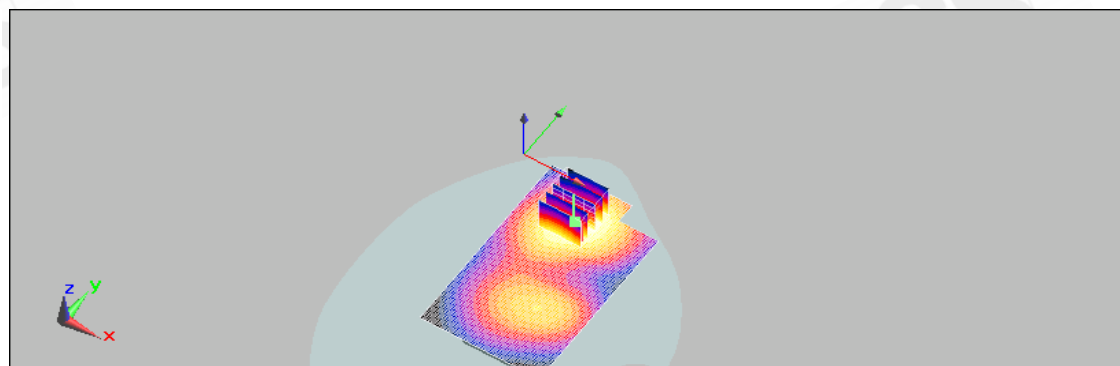
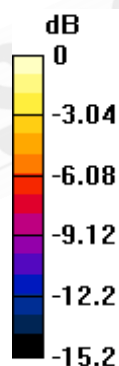
BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.16 V/m; Power Drift = 0.180 dB

Peak SAR (extrapolated) = 0.553 W/kg

SAR(1 g) = 0.344 mW/g; SAR(10 g) = 0.213 mW/g

Maximum value of SAR (measured) = 0.368 mW/g



0 dB = 0.368mW/g

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Date/Time: 05/30/2009 04:05:09

RE Cheek_CH4183_(Third solution)

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: Head 900 Medium parameters used: $f = 837$ MHz; $\sigma = 0.859$ mho/m; $\epsilon_r = 39.9$; $\rho = 1000$ kg/m³
Phantom section: Right Section

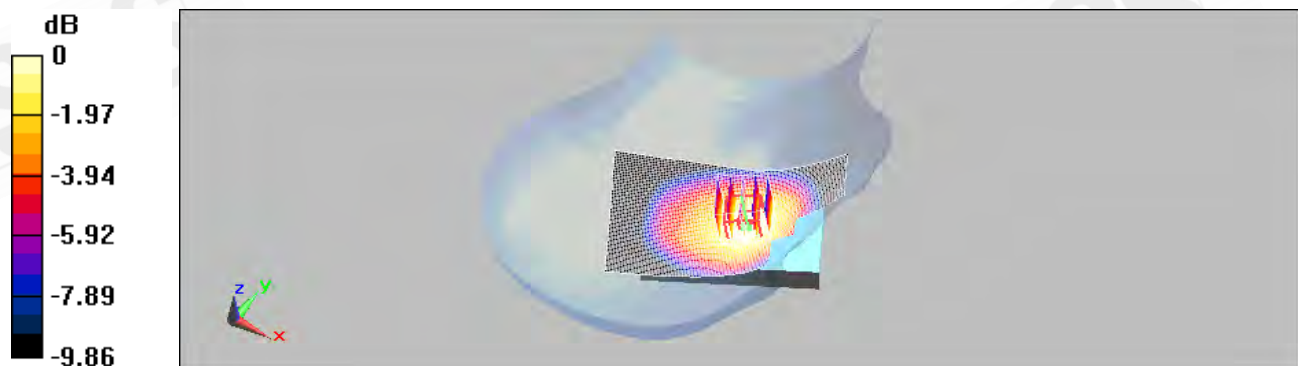
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.93, 10.93, 10.93); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.455 mW/g

RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11 V/m; Power Drift = 0.127 dB
Peak SAR (extrapolated) = 0.546 W/kg

SAR(1 g) = 0.448 mW/g; SAR(10 g) = 0.345 mW/g
Maximum value of SAR (measured) = 0.471 mW/g



0 dB = 0.471mW/g

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Date/Time: 05/30/2009 09:20:32

BODY_CH4183_(Third solution)

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: BODY 900 Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.969 \text{ mho/m}$; $\epsilon_r = 56$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

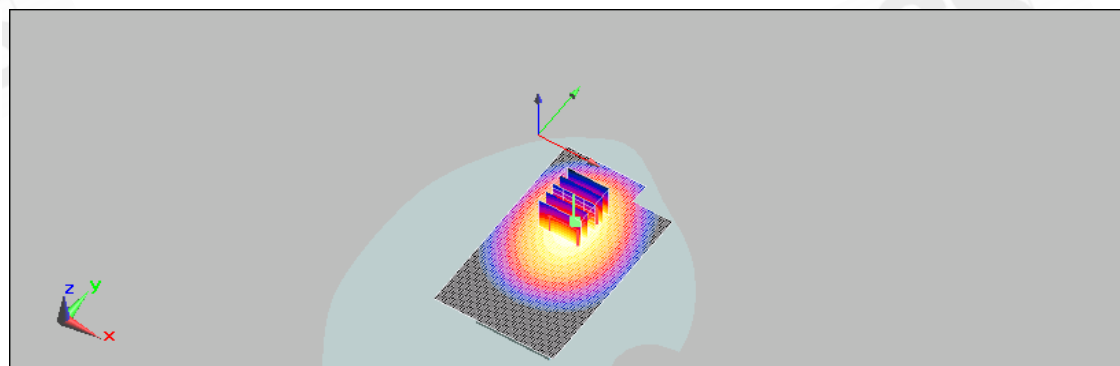
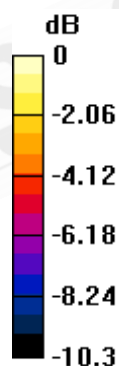
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.87, 10.87, 10.87); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.604 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 7.32 V/m; Power Drift = 0.153 dB
Peak SAR (extrapolated) = 0.680 W/kg

SAR(1 g) = 0.553 mW/g; SAR(10 g) = 0.392 mW/g
Maximum value of SAR (measured) = 0.531 mW/g



0 dB = 0.531mW/g

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Date/Time: 05/30/2009 09:51:53

BODY_CH4183 repeated with HSDPA mode_(Third solution)

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: Body 900 Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.969 \text{ mho/m}$; $\epsilon_r = 56$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

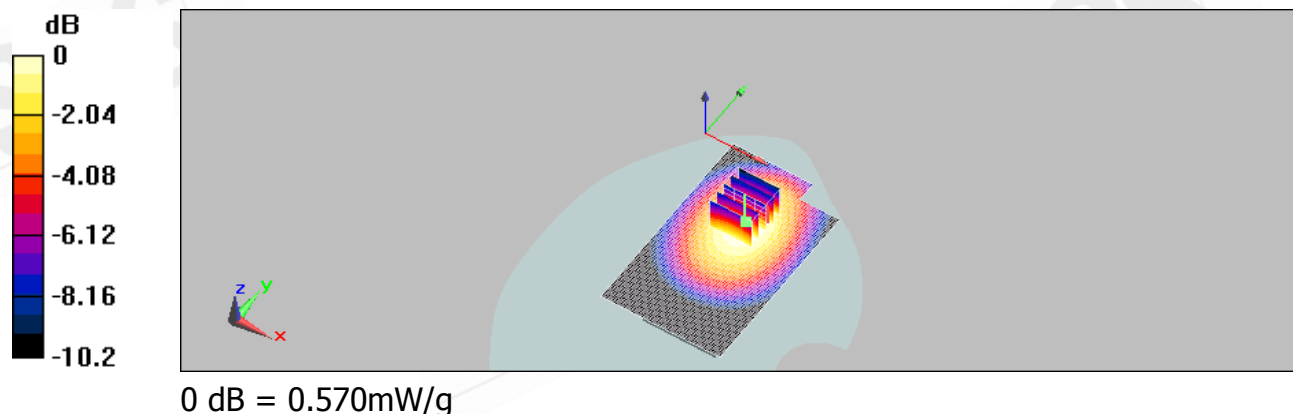
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.87, 10.87, 10.87); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.598 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 7.16 V/m; Power Drift = 0.126 dB
Peak SAR (extrapolated) = 0.732 W/kg

SAR(1 g) = 0.537 mW/g; SAR(10 g) = 0.385 mW/g
Maximum value of SAR (measured) = 0.570 mW/g



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Date/Time: 05/30/2009 10:19:38

BODY_CH4183 repeated with HSUPA mode_(Third solution)

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: Body 900 Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.969 \text{ mho/m}$; $\epsilon_r = 56$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

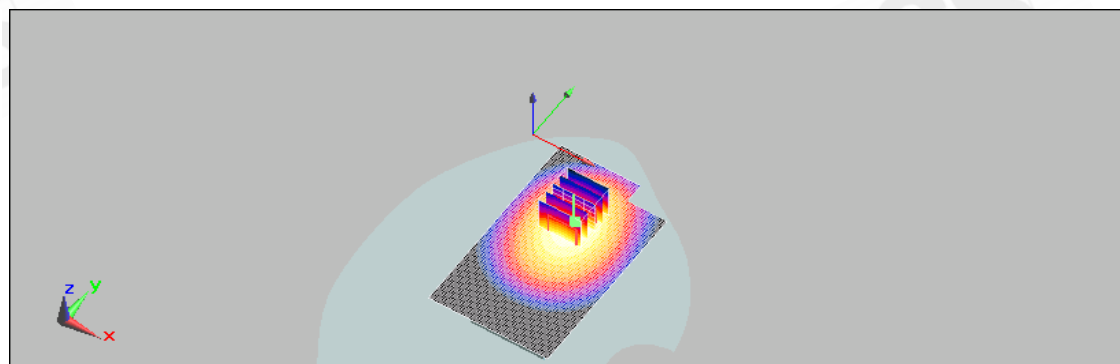
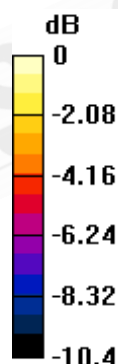
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.87, 10.87, 10.87); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 7.06 V/m; Power Drift = 0.023 dB
Peak SAR (extrapolated) = 0.688 W/kg

SAR(1 g) = 0.503 mW/g; SAR(10 g) = 0.361 mW/g
Maximum value of SAR (measured) = 0.534 mW/g



0 dB = 0.534mW/g

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Date/Time: 06/01/2009 16:36:48

BODY_CH11 repeated with Merry headset_WLAN802.11b_(Third solution)

DUT: HERO130;

Communication System: Wireless LAN; Frequency: 2462 MHz; Duty Cycle: 1:1
 Medium: Body 2450 Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.93 \text{ mho/m}$; $\epsilon_r = 50.1$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

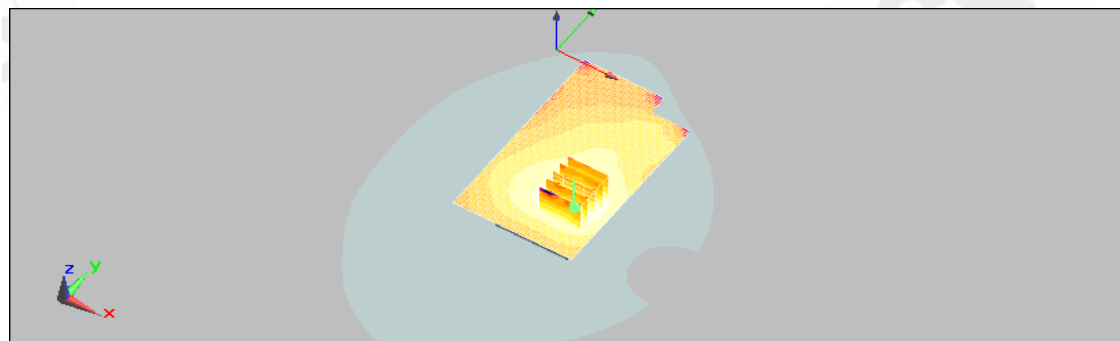
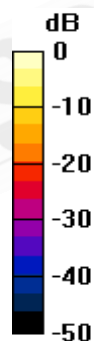
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.18, 8.18, 8.18); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.089 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 4.19 V/m; Power Drift = 0.138 dB
 Peak SAR (extrapolated) = 0.153 W/kg

SAR(1 g) = 0.086 mW/g; SAR(10 g) = 0.047 mW/g
 Maximum value of SAR (measured) = 0.094 mW/g



0 dB = 0.094mW/g

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Date/Time: 06/01/2009 17:03:10

BODY_CH1_WLAN802.11g_(Third solution)

DUT: HERO130;

Communication System: Wireless LAN; Frequency: 2412 MHz; Duty Cycle: 1:1
Medium: Body 2450 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 50.1$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

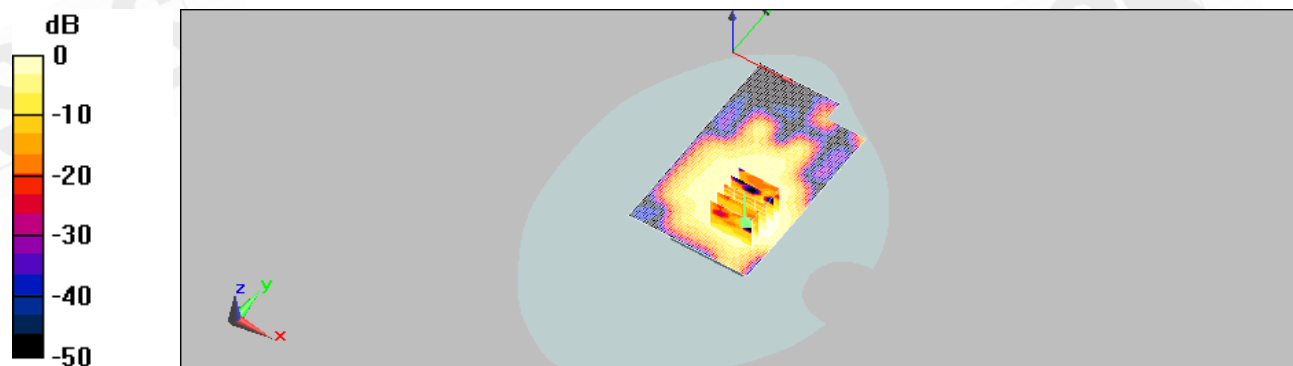
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.18, 8.18, 8.18); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.017 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.58 V/m; Power Drift = 0.102 dB
Peak SAR (extrapolated) = 0.026 W/kg

SAR(1 g) = 0.015 mW/g; SAR(10 g) = 0.0075 mW/g
Maximum value of SAR (measured) = 0.018 mW/g



0 dB = 0.018mW/g

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Date/Time: 05/30/2009 03:04:51

LE Cheek_CH251_(Fourth solution)

DUT: HERO130;

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3
Medium: Head 900 Medium parameters used: $f = 849$ MHz; $\sigma = 0.881$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.93, 10.93, 10.93); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.593 mW/g

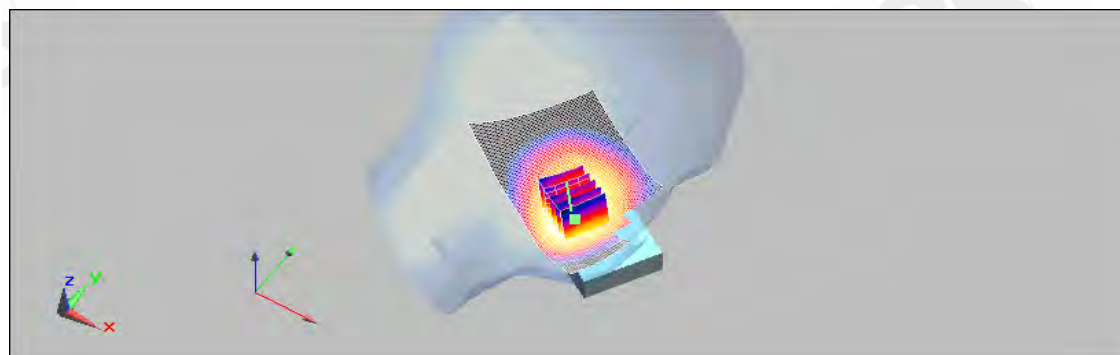
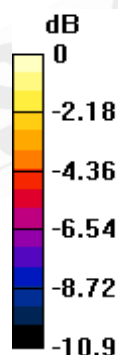
LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12 V/m; Power Drift = -0.096 dB

Peak SAR (extrapolated) = 0.737 W/kg

SAR(1 g) = 0.557 mW/g; SAR(10 g) = 0.409 mW/g

Maximum value of SAR (measured) = 0.579 mW/g



0 dB = 0.579mW/g

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Date/Time: 05/30/2009 07:30:13

BODY_CH251_(Fourth solution)

DUT: HERO130;

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:4
Medium: BODY 900 Medium parameters used: $f = 849$ MHz; $\sigma = 0.975$ mho/m; $\epsilon_r = 55.9$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

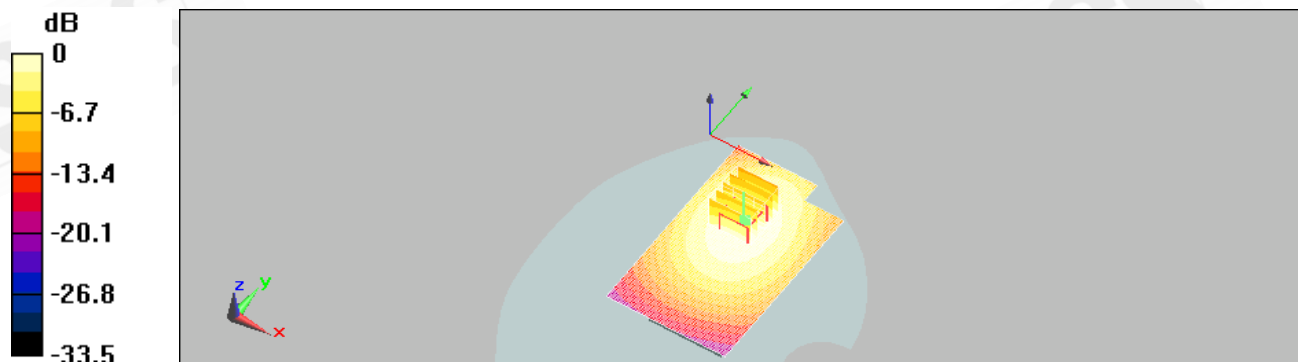
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.87, 10.87, 10.87); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.02 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.98 V/m; Power Drift = -0.105 dB
Peak SAR (extrapolated) = 1.27 W/kg

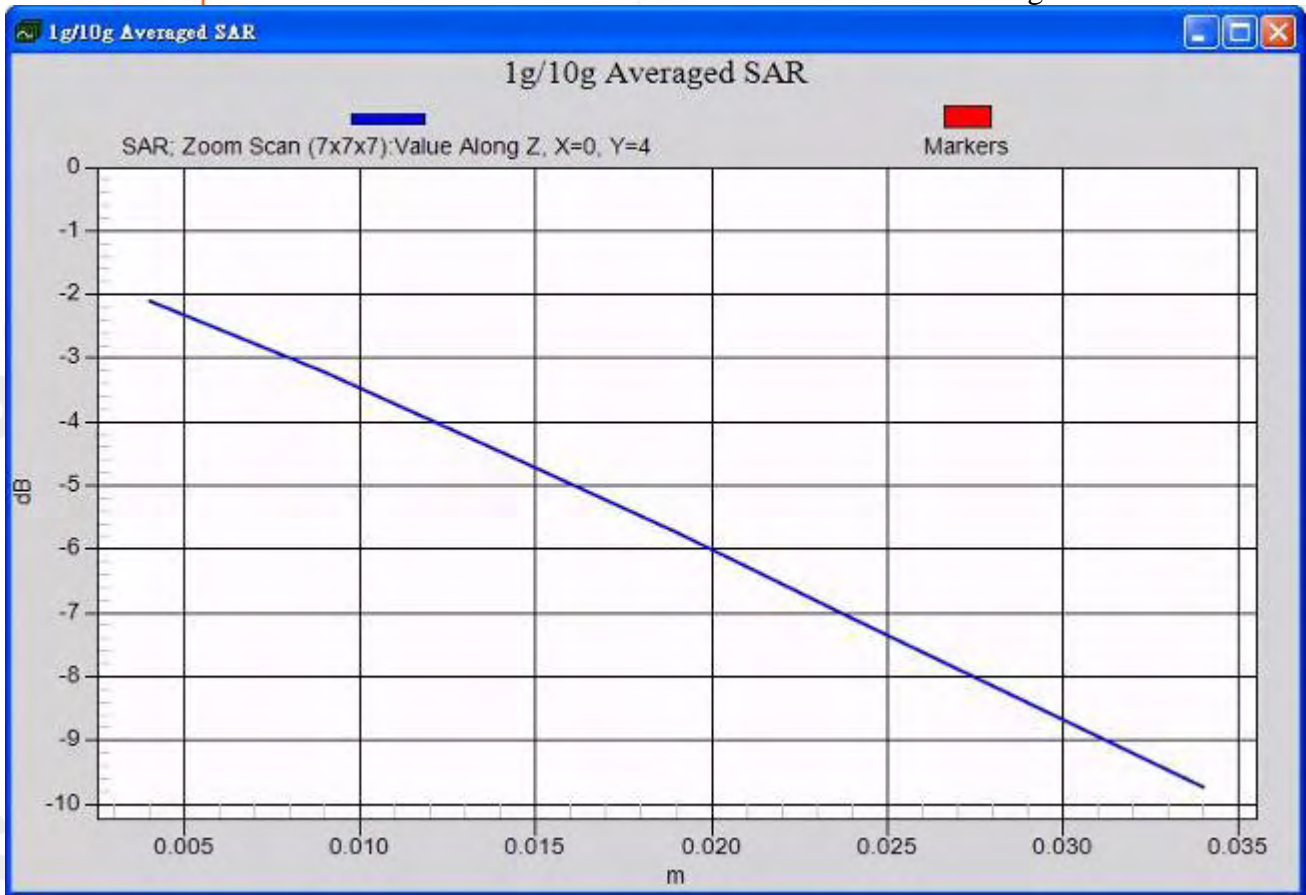
SAR(1 g) = 0.946 mW/g; SAR(10 g) = 0.676 mW/g
Maximum value of SAR (measured) = 1.01 mW/g



0 dB = 1.01mW/g

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Date/Time: 05/30/2009 14:33:50

LE Cheek_CH661_(Fourth solution)

DUT: HERO130;

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: Head 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 38.6$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.46, 9.46, 9.46); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.1 mW/g

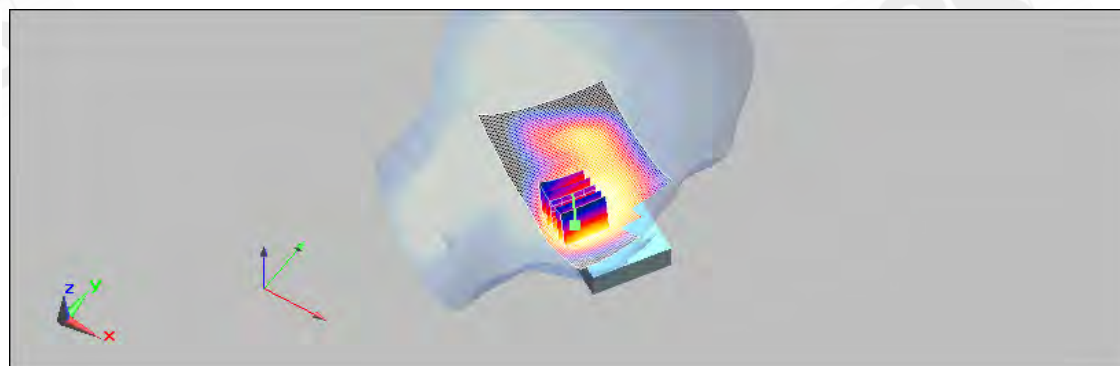
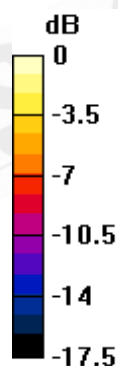
LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.9 V/m; Power Drift = -0.086 dB

Peak SAR (extrapolated) = 1.43 W/kg

SAR(1 g) = 0.908 mW/g; SAR(10 g) = 0.586 mW/g

Maximum value of SAR (measured) = 0.981 mW/g



0 dB = 0.981mW/g

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Date/Time: 05/30/2009 18:48:02

BODY_CH661_(Fourth solution)

DUT: HERO130;

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:4
 Medium: BODY 1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.55 \text{ mho/m}$; $\epsilon_r = 53.2$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

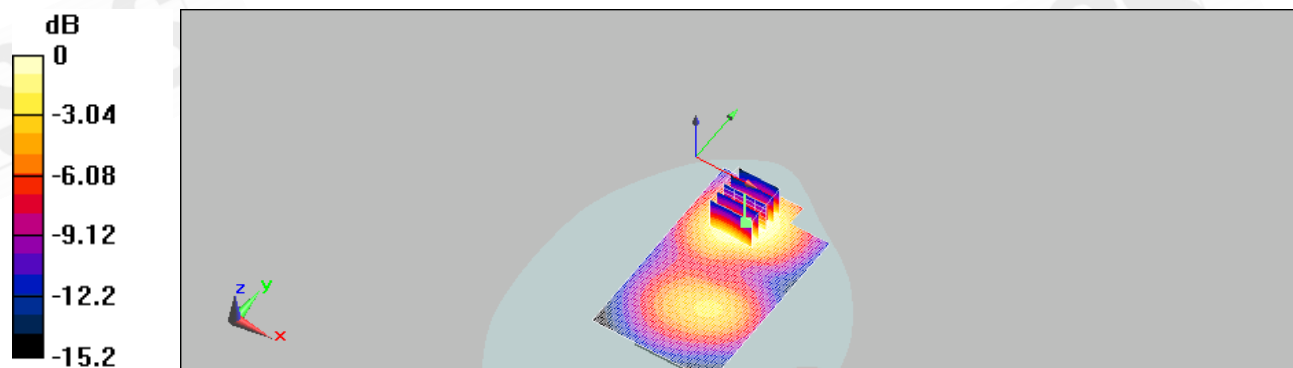
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.28, 9.28, 9.28); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.395 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 8.36 V/m; Power Drift = -0.070 dB
 Peak SAR (extrapolated) = 0.580 W/kg

SAR(1 g) = 0.359 mW/g; SAR(10 g) = 0.222 mW/g
 Maximum value of SAR (measured) = 0.387 mW/g



0 dB = 0.387mW/g

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Date/Time: 05/30/2009 15:57:01

LE Cheek_CH9538 repeated with Memory card_(Fourth solution)

DUT: HERO130;

Communication System: WCDMA B2; Frequency: 1907.6 MHz; Duty Cycle: 1:1
 Medium: Head 1900 Medium parameters used: $f = 1908$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.46, 9.46, 9.46); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 1.76 mW/g

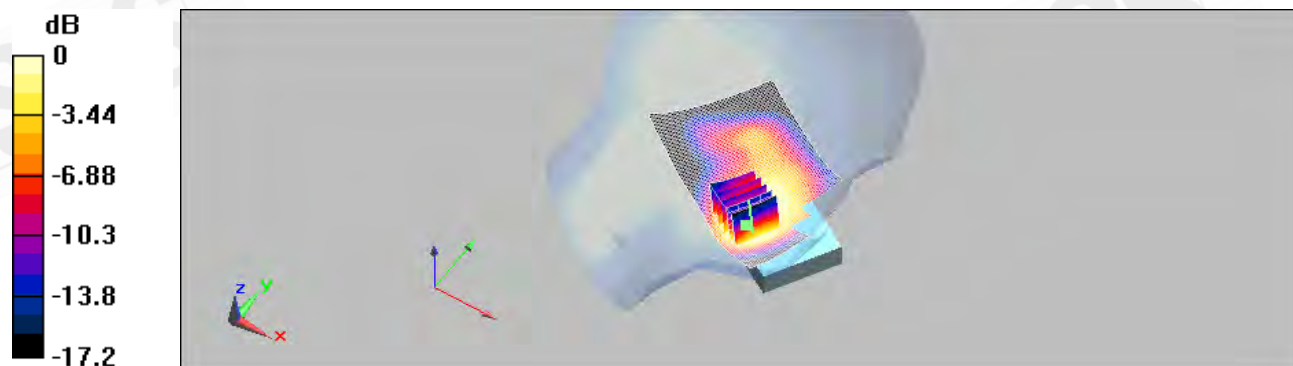
LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.8 V/m; Power Drift = -0.018 dB

Peak SAR (extrapolated) = 2.45 W/kg

SAR(1 g) = 1.5 mW/g; SAR(10 g) = 0.932 mW/g

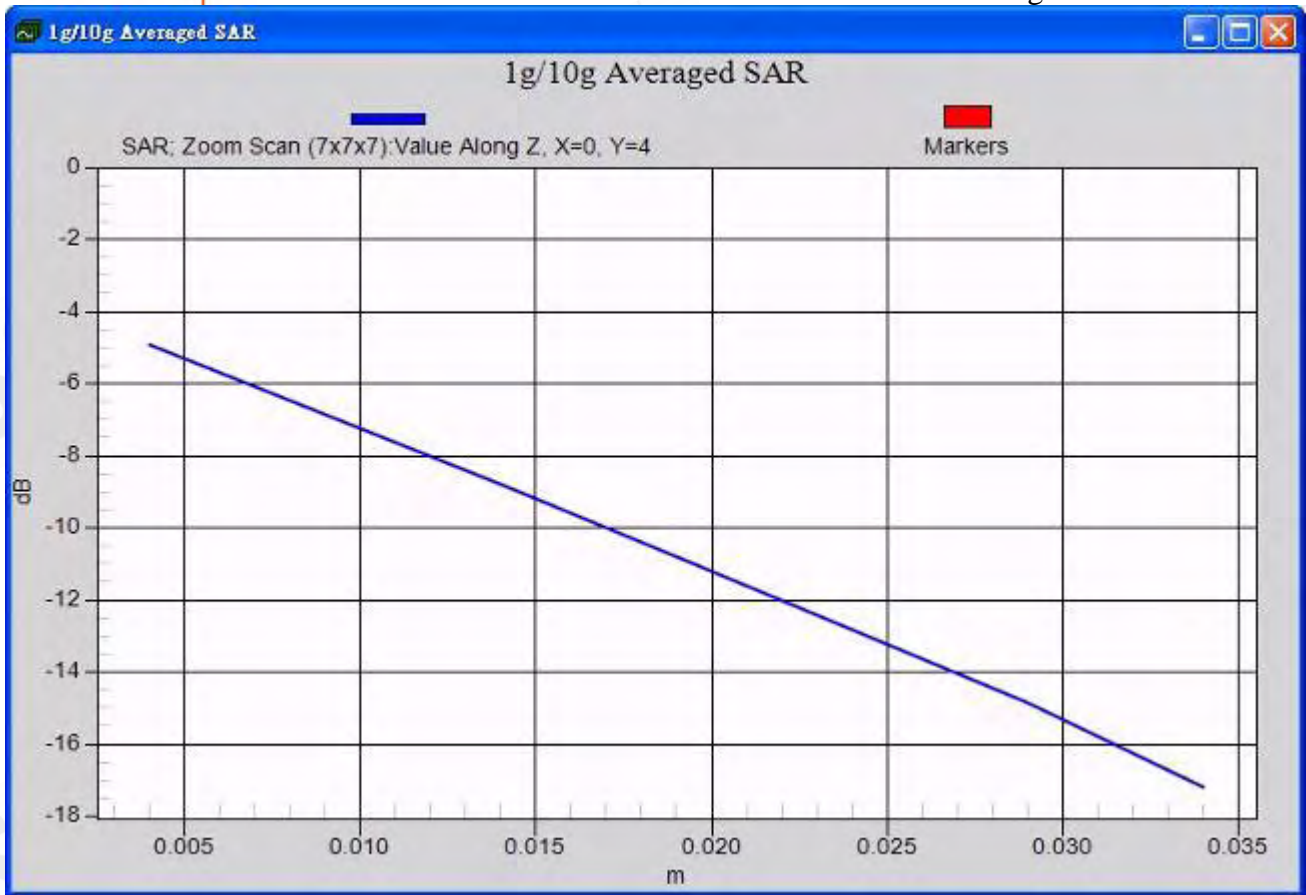
Maximum value of SAR (measured) = 1.62 mW/g



0 dB = 1.62mW/g

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Date/Time: 05/30/2009 22:00:32

BODY_CH9400_(Fourth solution)

DUT: HERO130;

Communication System: WCDMA B2; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: Body 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

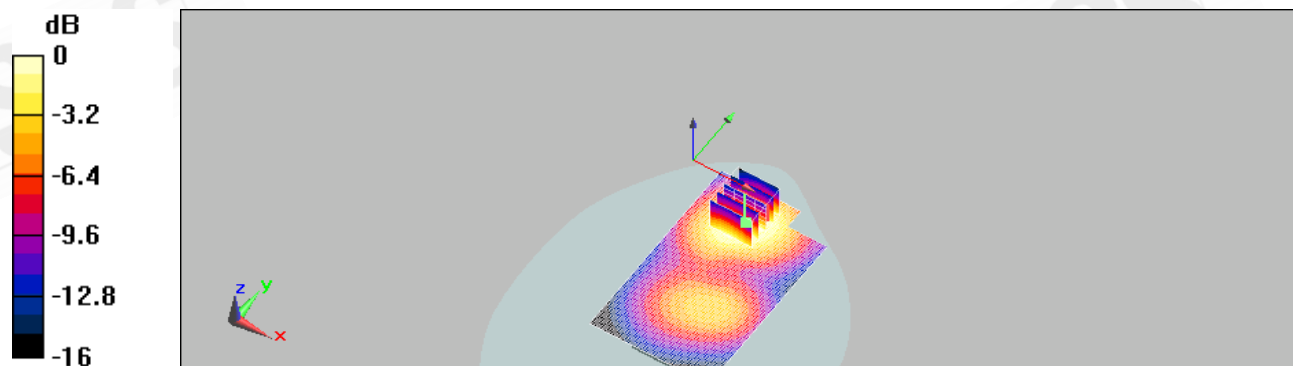
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.28, 9.28, 9.28); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.455 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.33 V/m; Power Drift = 0.186 dB
Peak SAR (extrapolated) = 0.674 W/kg

SAR(1 g) = 0.416 mW/g; SAR(10 g) = 0.254 mW/g
Maximum value of SAR (measured) = 0.449 mW/g



0 dB = 0.449mW/g

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Date/Time: 05/30/2009 22:27:08

BODY_CH9400 repeated with HSDPA mode_(Fourth solution)

DUT: HERO130;

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

Medium: Body 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.28, 9.28, 9.28); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (interpolated) = 0.461 mW/g

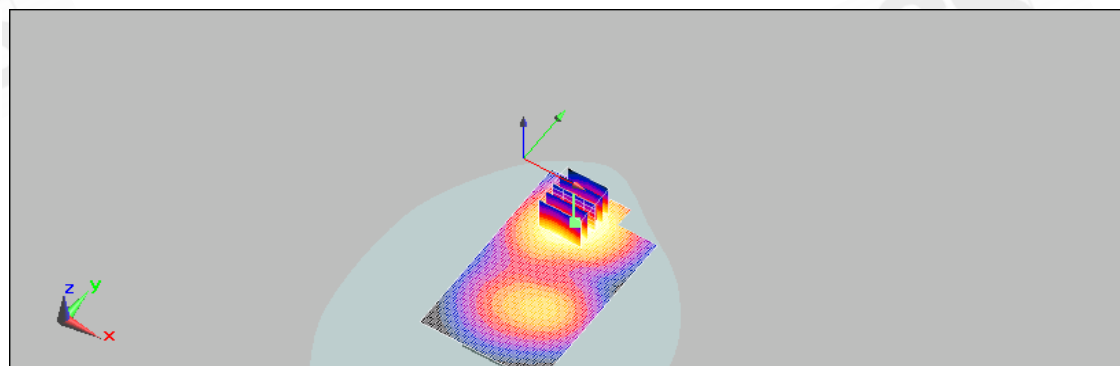
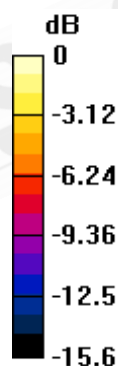
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.31 V/m; Power Drift = 0.077 dB

Peak SAR (extrapolated) = 0.673 W/kg

SAR(1 g) = 0.414 mW/g; SAR(10 g) = 0.253 mW/g

Maximum value of SAR (measured) = 0.445 mW/g



0 dB = 0.445mW/g

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Date/Time: 05/30/2009 22:55:17

BODY_CH9400 repeated with HSUPA mode_(Fourth solution)

DUT: HERO130;

Communication System: WCDMA B2; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: BODY 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

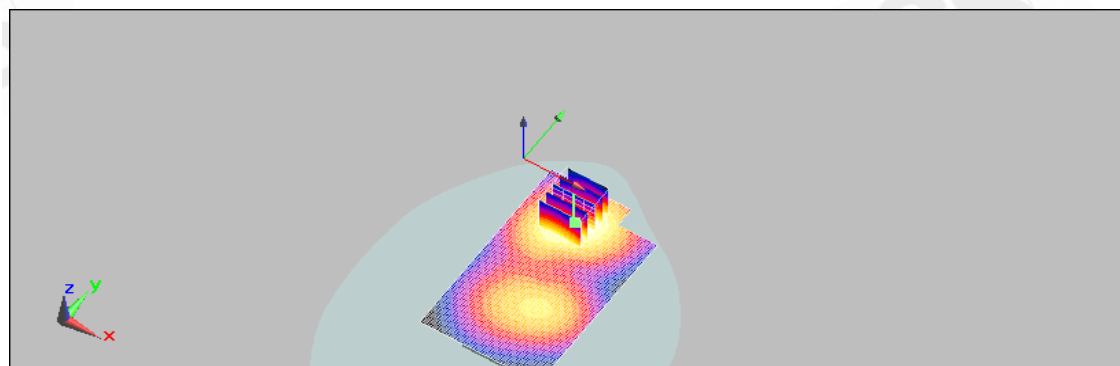
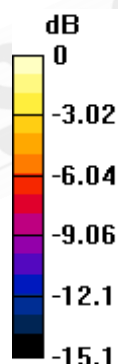
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.28, 9.28, 9.28); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.390 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.02 V/m; Power Drift = 0.186 dB
Peak SAR (extrapolated) = 0.562 W/kg

SAR(1 g) = 0.353 mW/g; SAR(10 g) = 0.218 mW/g
Maximum value of SAR (measured) = 0.379 mW/g



0 dB = 0.379mW/g

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Date/Time: 05/30/2009 04:38:27

RE Cheek_CH4183_(Fourth solution)

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: Head 900 Medium parameters used: $f = 837$ MHz; $\sigma = 0.859$ mho/m; $\epsilon_r = 39.9$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.93, 10.93, 10.93); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.535 mW/g

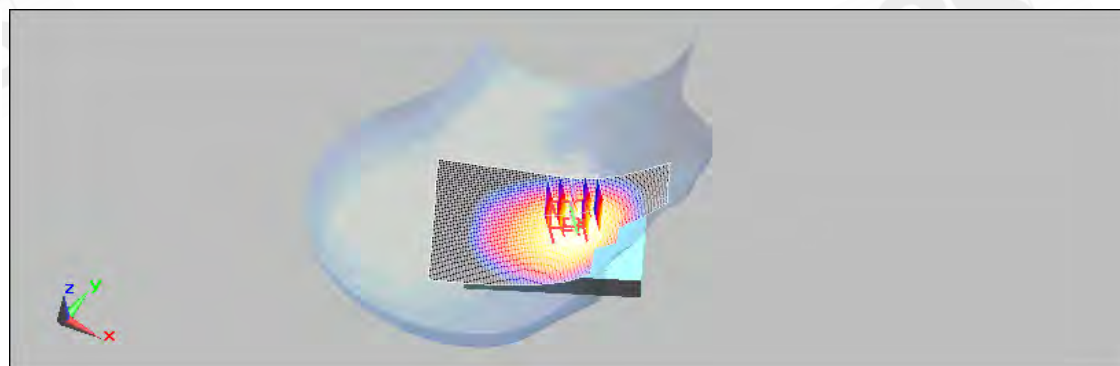
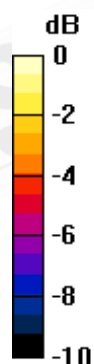
RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.5 V/m; Power Drift = 0.203 dB

Peak SAR (extrapolated) = 0.644 W/kg

SAR(1 g) = 0.510 mW/g; SAR(10 g) = 0.387 mW/g

Maximum value of SAR (measured) = 0.527 mW/g



0 dB = 0.527mW/g

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Date/Time: 05/30/2009 10:46:43

BODY_CH4183 (Fourth solution)

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: BODY 900 Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.969 \text{ mho/m}$; $\epsilon_r = 56$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

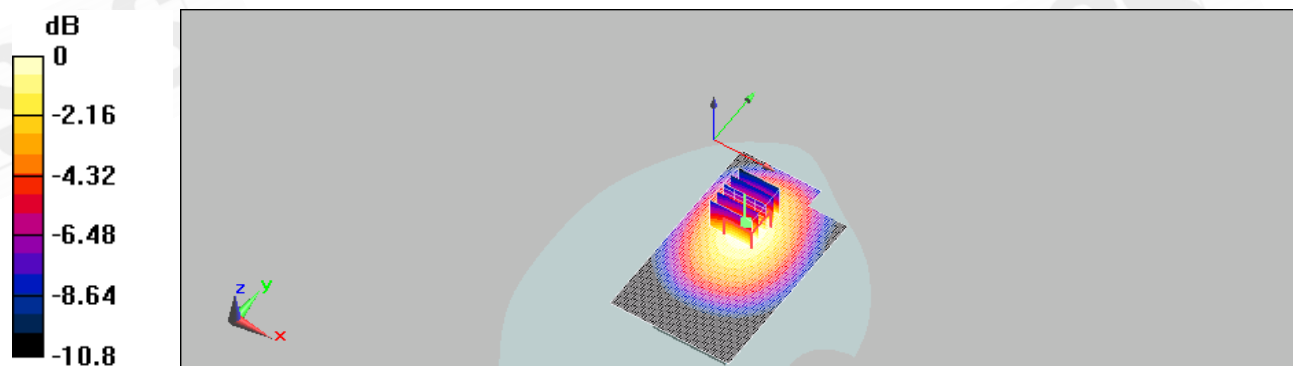
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.87, 10.87, 10.87); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.584 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 7.61 V/m; Power Drift = 0.209 dB
Peak SAR (extrapolated) = 0.759 W/kg

SAR(1 g) = 0.549 mW/g; SAR(10 g) = 0.391 mW/g
Maximum value of SAR (measured) = 0.577 mW/g



0 dB = 0.577mW/g

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Date/Time: 05/30/2009 11:13:22

BODY_CH4183 repeated with HSDPA mode (Fourth solution)

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: Body 900 Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.969 \text{ mho/m}$; $\epsilon_r = 56$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

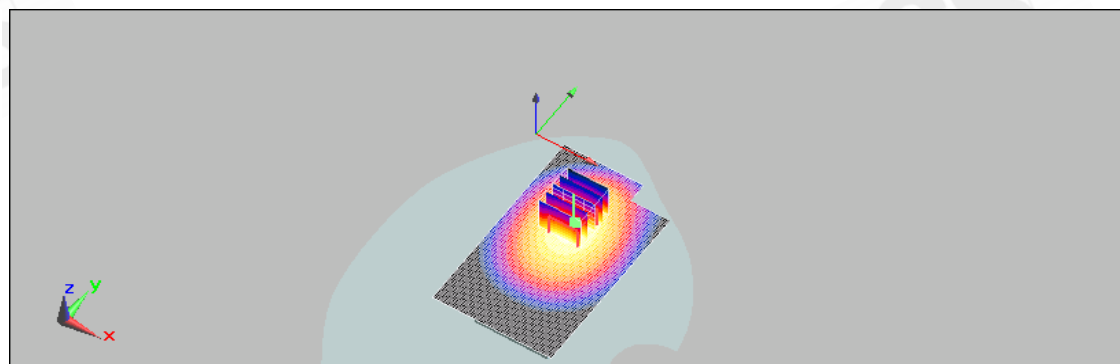
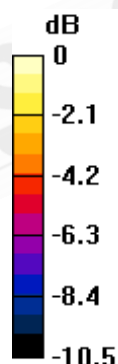
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.87, 10.87, 10.87); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.562 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 7.65 V/m; Power Drift = 0.104 dB
Peak SAR (extrapolated) = 0.755 W/kg

SAR(1 g) = 0.547 mW/g; SAR(10 g) = 0.389 mW/g
Maximum value of SAR (measured) = 0.583 mW/g



0 dB = 0.583mW/g

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Date/Time: 05/30/2009 11:42:29

BODY_CH4183 repeated with HSUPA mode (Fourth solution)

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: Body 900 Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.969 \text{ mho/m}$; $\epsilon_r = 56$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

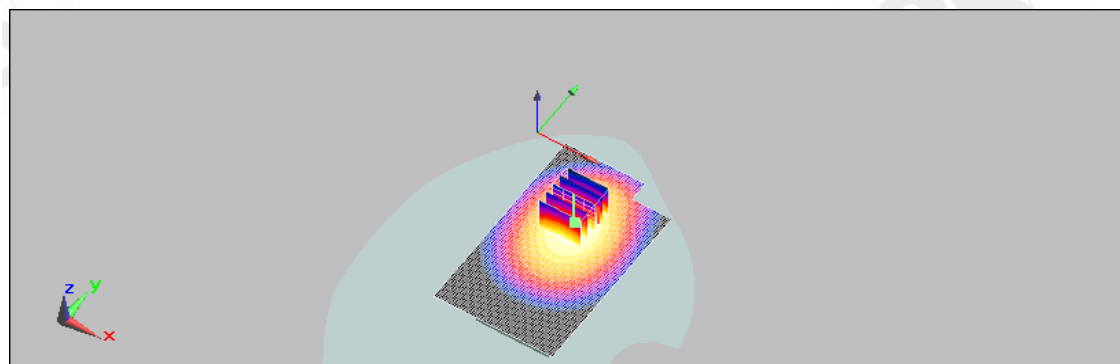
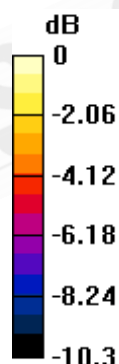
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.87, 10.87, 10.87); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.524 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 7.56 V/m; Power Drift = 0.132 dB
Peak SAR (extrapolated) = 0.677 W/kg

SAR(1 g) = 0.497 mW/g; SAR(10 g) = 0.356 mW/g
Maximum value of SAR (measured) = 0.526 mW/g



0 dB = 0.526mW/g

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Date/Time: 06/01/2009 17:32:53

BODY_CH11 repeated with Merry headset_WLAN802.11b_(Fourth solution)

DUT: HERO130;

Communication System: Wireless LAN; Frequency: 2462 MHz; Duty Cycle: 1:1
Medium: Body 2450 Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.93 \text{ mho/m}$; $\epsilon_r = 50.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

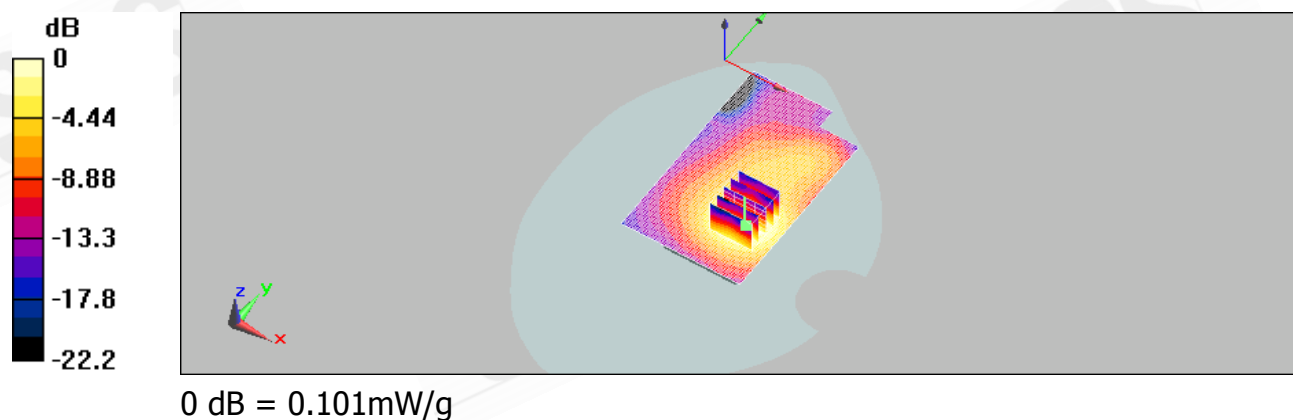
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.18, 8.18, 8.18); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.098 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 4.05 V/m; Power Drift = 0.191 dB
Peak SAR (extrapolated) = 0.164 W/kg

SAR(1 g) = 0.092 mW/g; SAR(10 g) = 0.051 mW/g
Maximum value of SAR (measured) = 0.101 mW/g



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Date/Time: 06/01/2009 17:59:26

BODY_CH1_WLAN802.11g

DUT: HERO130;

Communication System: Wireless LAN; Frequency: 2412 MHz; Duty Cycle: 1:1
Medium: Body 2450 Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 50.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

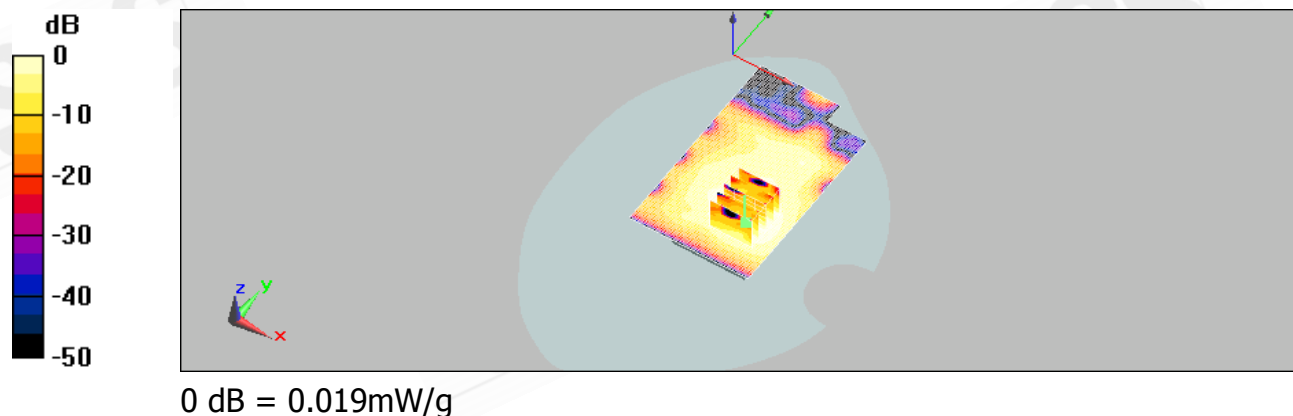
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.18, 8.18, 8.18); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.022 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 2.05 V/m; Power Drift = 0.010 dB
Peak SAR (extrapolated) = 0.030 W/kg

SAR(1 g) = 0.017 mW/g; SAR(10 g) = 0.00901 mW/g
Maximum value of SAR (measured) = 0.019 mW/g



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Date/Time: 06/02/2009 01:30:38

LE Cheek_CH251_(Fifth solution)

DUT: HERO130;

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3
Medium: Head 900 Medium parameters used: $f = 849$ MHz; $\sigma = 0.87$ mho/m; $\epsilon_r = 39.6$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.93, 10.93, 10.93); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

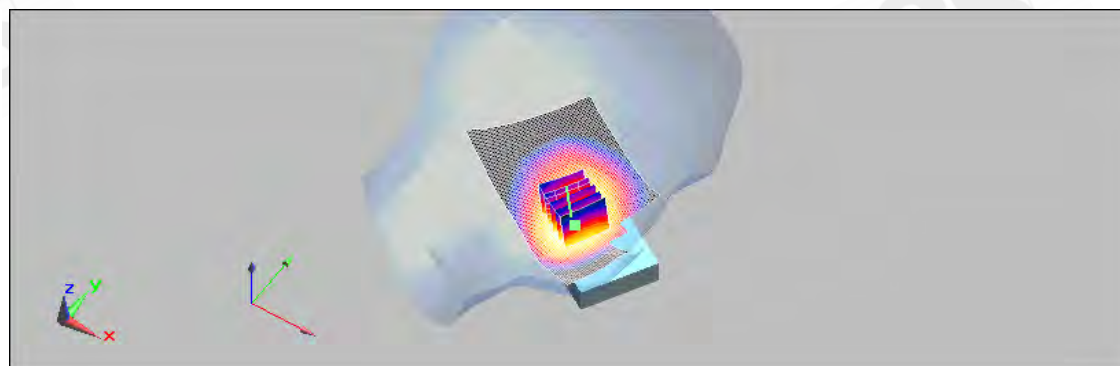
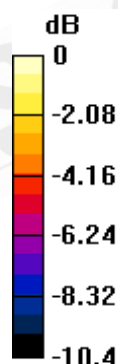
LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.6 V/m; Power Drift = -0.096 dB

Peak SAR (extrapolated) = 0.644 W/kg

SAR(1 g) = 0.529 mW/g; SAR(10 g) = 0.369 mW/g

Maximum value of SAR (measured) = 0.527 mW/g



0 dB = 0.527mW/g

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Date/Time: 06/02/2009 06:36:52

BODY_CH251_(Fifth solution)

DUT: HERO130;

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:4
Medium: BODY 900 Medium parameters used: $f = 849$ MHz; $\sigma = 0.972$ mho/m; $\epsilon_r = 55.8$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

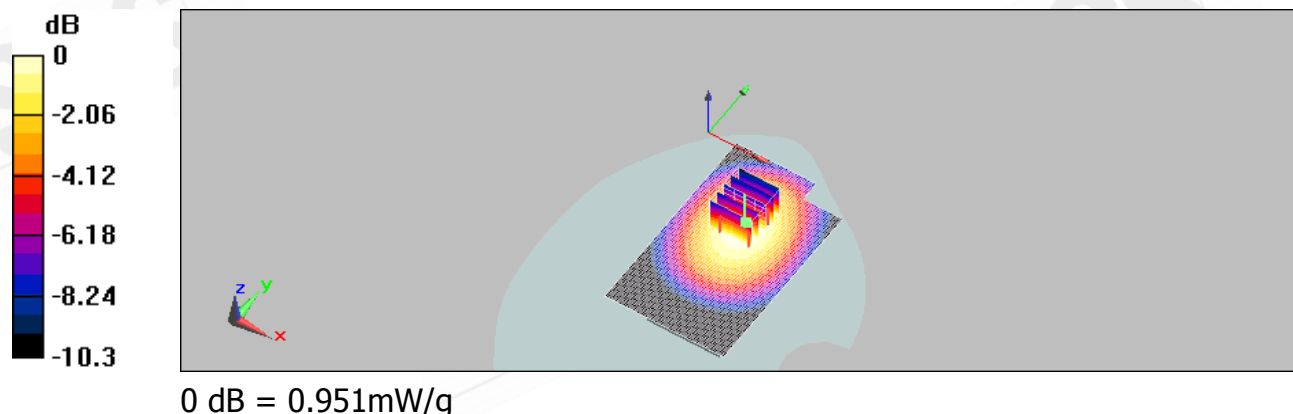
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.87, 10.87, 10.87); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.967 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.5 V/m; Power Drift = -0.132 dB
Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.905 mW/g; SAR(10 g) = 0.656 mW/g
Maximum value of SAR (measured) = 0.951 mW/g



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Date/Time: 06/02/2009 15:28:42

LE Cheek_CH661_(Fifth solution)

DUT: HERO130;

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: Head 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 38.7$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.46, 9.46, 9.46); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.28 mW/g

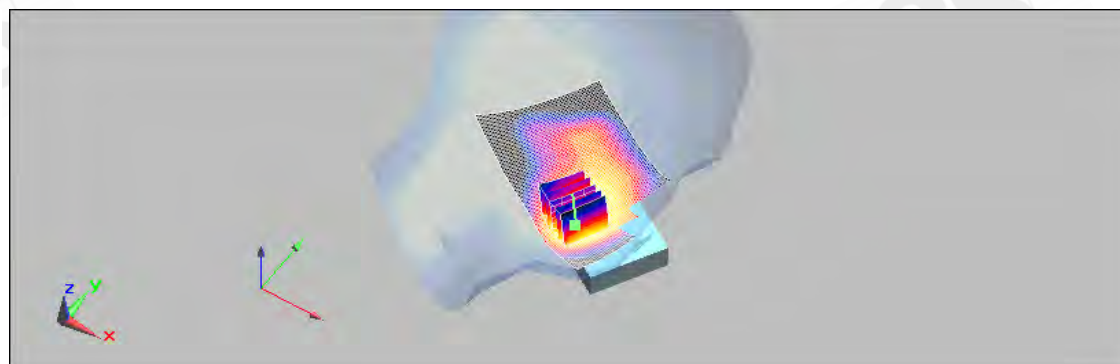
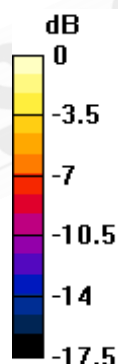
LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.7 V/m; Power Drift = -0.073 dB

Peak SAR (extrapolated) = 1.8 W/kg

SAR(1 g) = 1.12 mW/g; SAR(10 g) = 0.697 mW/g

Maximum value of SAR (measured) = 1.2 mW/g



0 dB = 1.2mW/g

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Date/Time: 06/02/2009 20:44:43

BODY_CH661_(Fifth solution)

DUT: HERO130;

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:4
Medium: BODY 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

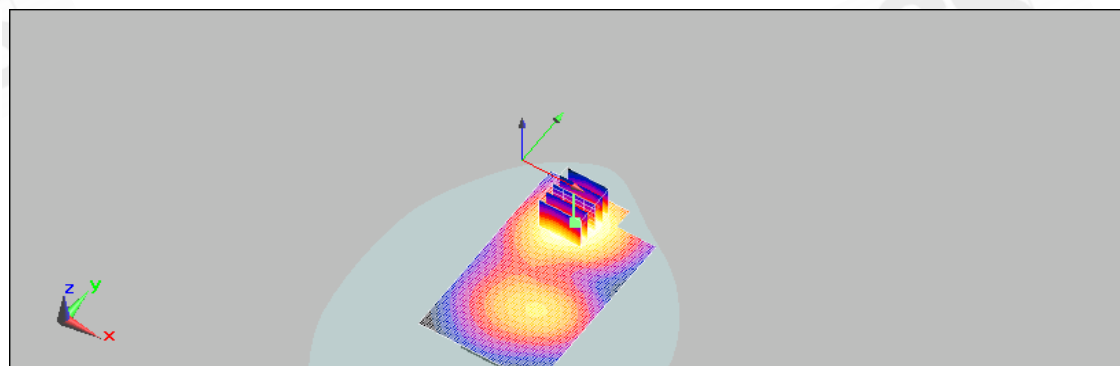
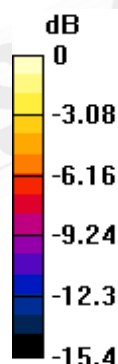
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.28, 9.28, 9.28); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.431 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.09 V/m; Power Drift = -0.173 dB
Peak SAR (extrapolated) = 0.625 W/kg

SAR(1 g) = 0.386 mW/g; SAR(10 g) = 0.239 mW/g
Maximum value of SAR (measured) = 0.410 mW/g



0 dB = 0.410mW/g

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Date/Time: 06/02/2009 17:21:46

LE Cheek_CH9538 repeated with Memory card_(Fifth solution)

DUT: HERO130;

Communication System: WCDMA B2; Frequency: 1907.6 MHz; Duty Cycle: 1:1
 Medium: Head 1900 Medium parameters used: $f = 1908$ MHz; $\sigma = 1.48$ mho/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.46, 9.46, 9.46); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 1.67 mW/g

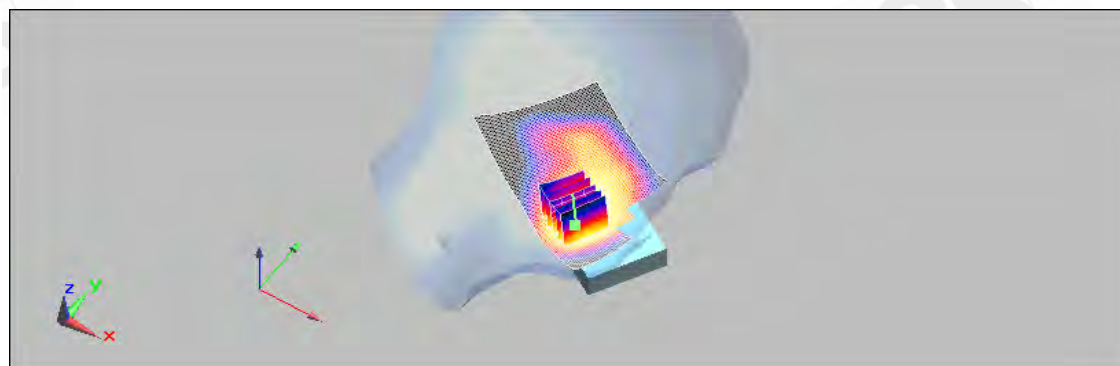
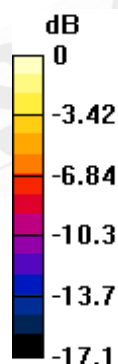
LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.8 V/m; Power Drift = -0.016 dB

Peak SAR (extrapolated) = 2.38 W/kg

SAR(1 g) = 1.49 mW/g; SAR(10 g) = 0.931 mW/g

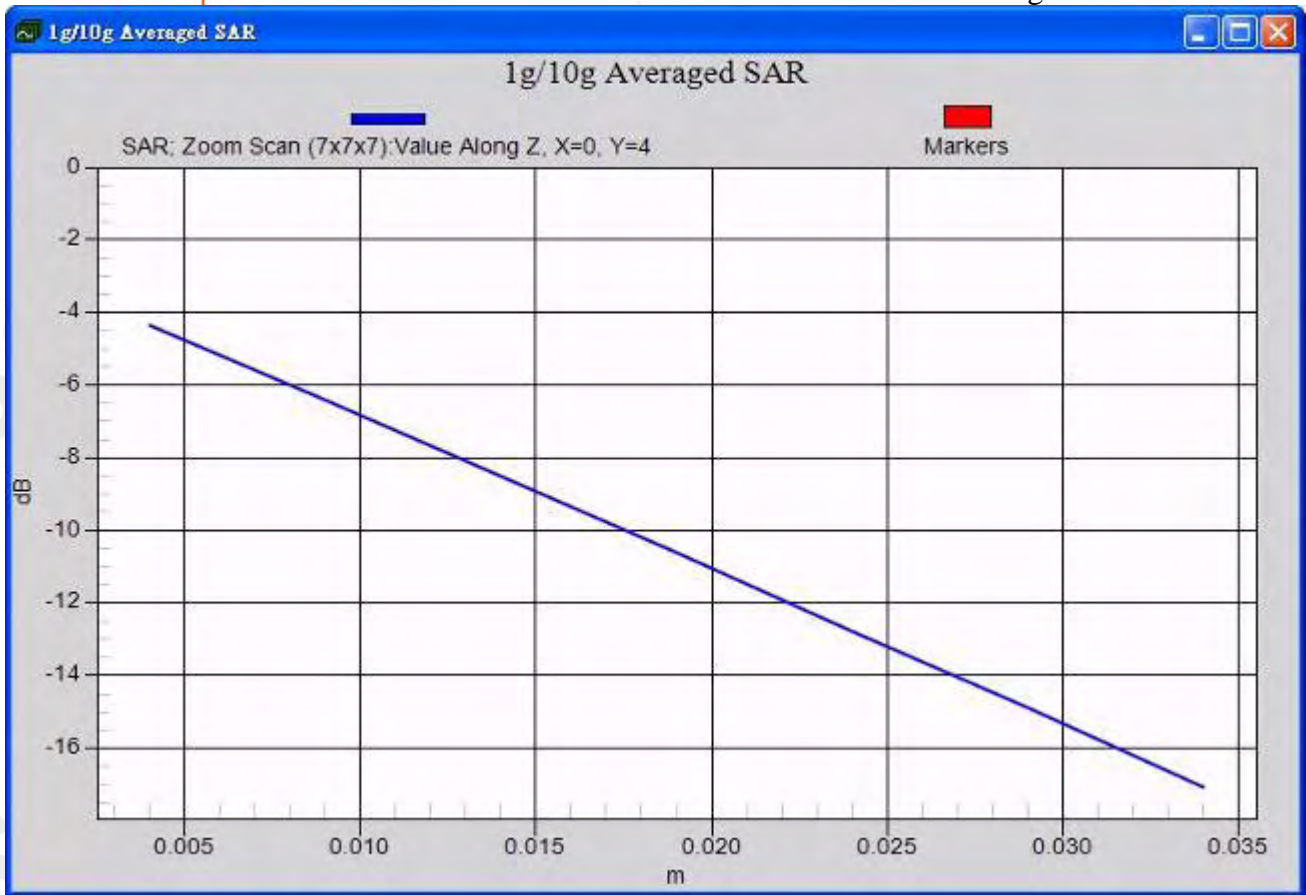
Maximum value of SAR (measured) = 1.59 mW/g



0 dB = 1.59mW/g

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Date/Time:06/02/2009 22:35:54

BODY_CH9400_(Fifth solution)

DUT: HERO130;

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

Medium: Body 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.28, 9.28, 9.28); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (interpolated) = 0.387 mW/g

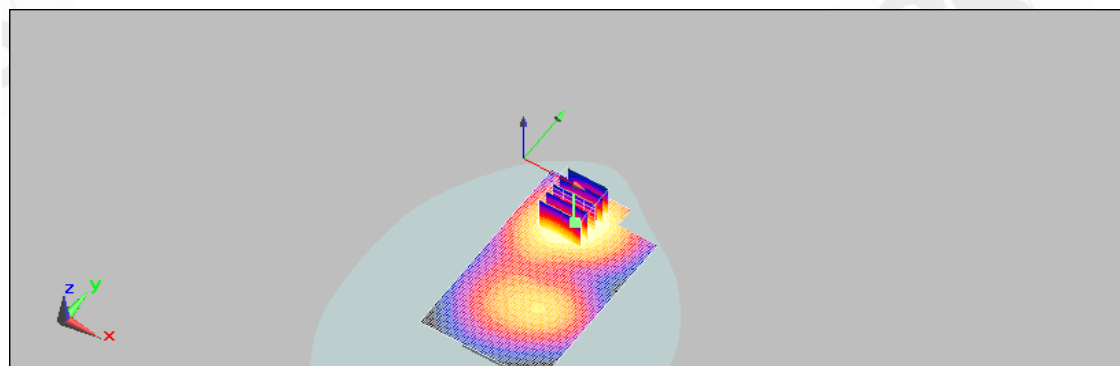
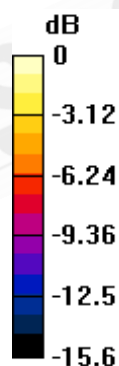
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.42 V/m; Power Drift = 0.071 dB

Peak SAR (extrapolated) = 0.573 W/kg

SAR(1 g) = 0.357 mW/g; SAR(10 g) = 0.219 mW/g

Maximum value of SAR (measured) = 0.385 mW/g



0 dB = 0.385mW/g

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Date/Time: 06/02/2009 23:01:51

BODY_CH9400 repeated with HSDPA mode_(Fifth solution)

DUT: HERO130;

Communication System: WCDMA B2; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: Body 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

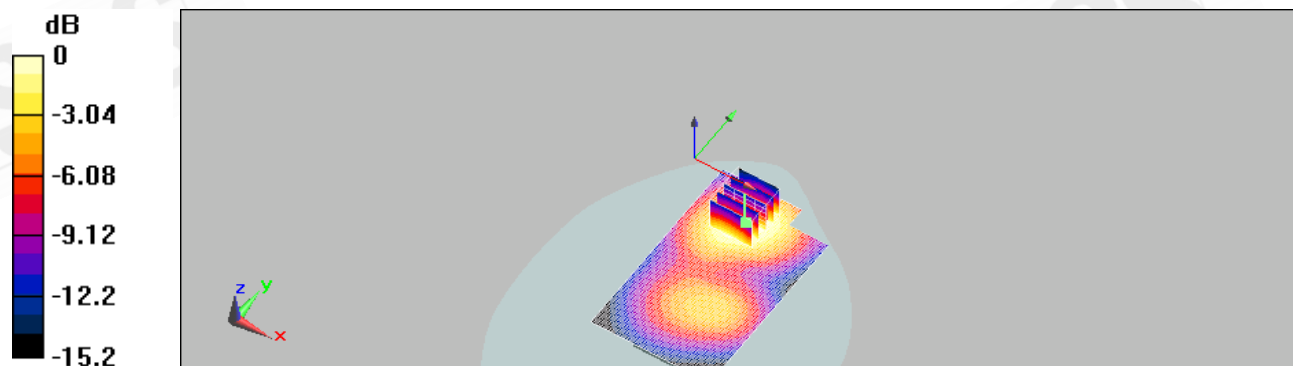
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.28, 9.28, 9.28); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.380 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.3 V/m; Power Drift = 0.107 dB
Peak SAR (extrapolated) = 0.552 W/kg

SAR(1 g) = 0.347 mW/g; SAR(10 g) = 0.215 mW/g
Maximum value of SAR (measured) = 0.373 mW/g



0 dB = 0.373mW/g

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Date/Time: 06/02/2009 23:29:17

BODY_CH9400 repeated with HSUPA mode_(Fifth solution)

DUT: HERO130;

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

Medium: Body 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.28, 9.28, 9.28); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

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

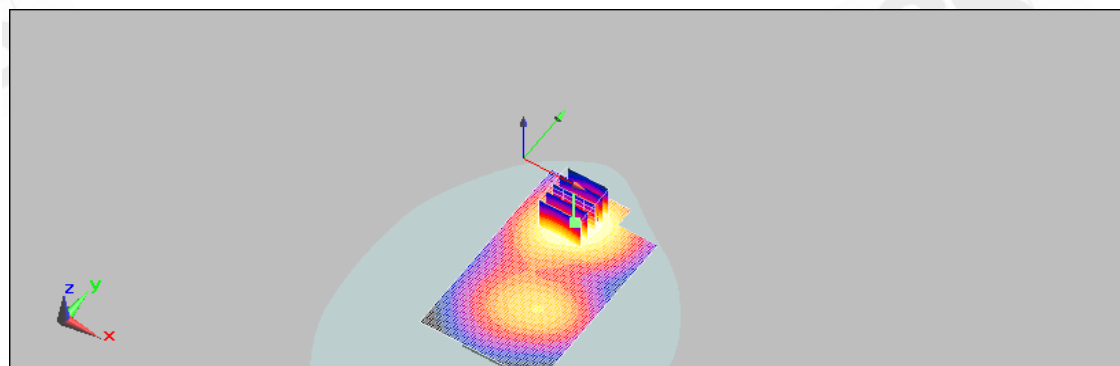
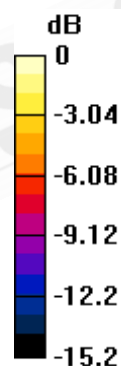
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.78 V/m; Power Drift = -0.058 dB

Peak SAR (extrapolated) = 0.510 W/kg

SAR(1 g) = 0.327 mW/g; SAR(10 g) = 0.204 mW/g

Maximum value of SAR (measured) = 0.351 mW/g



0 dB = 0.351mW/g

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Date/Time: 06/02/2009 03:17:57

RE Cheek_CH4183_(Fifth solution)

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: Head 900 Medium parameters used: $f = 837$ MHz; $\sigma = 0.869$ mho/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³
Phantom section: Right Section

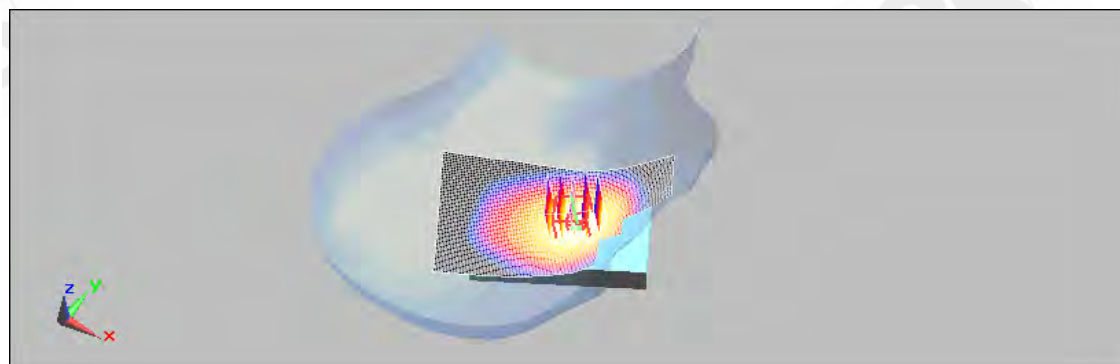
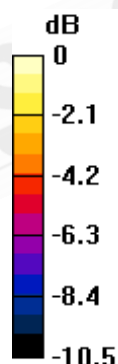
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.93, 10.93, 10.93); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.468 mW/g

RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.1 V/m; Power Drift = 0.080 dB
Peak SAR (extrapolated) = 0.499 W/kg

SAR(1 g) = 0.452 mW/g; SAR(10 g) = 0.312 mW/g
Maximum value of SAR (measured) = 0.464 mW/g



0 dB = 0.434mW/g

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Date/Time: 06/02/2009 08:25:42

BODY_CH4183_(Fifth solution)

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: Body 900 Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.965 \text{ mho/m}$; $\epsilon_r = 56$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

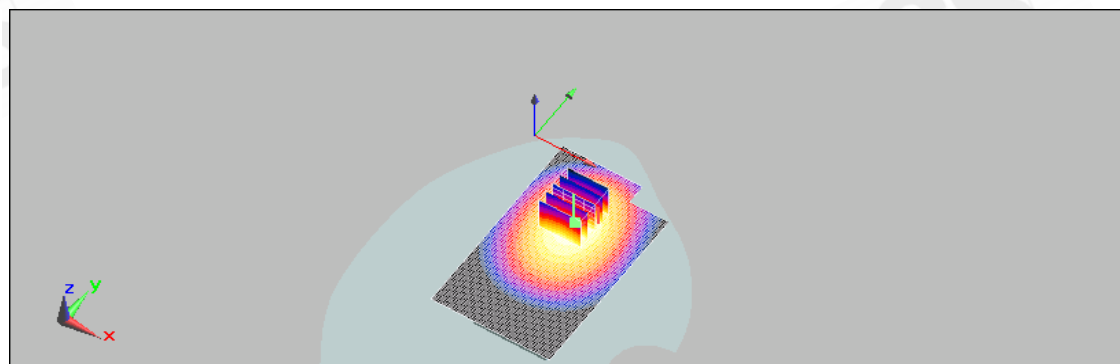
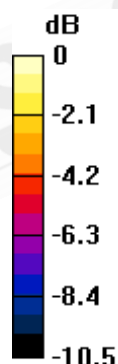
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.87, 10.87, 10.87); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.507 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 6.69 V/m; Power Drift = -0.177 dB
Peak SAR (extrapolated) = 0.660 W/kg

SAR(1 g) = 0.479 mW/g; SAR(10 g) = 0.341 mW/g
Maximum value of SAR (measured) = 0.505 mW/g



0 dB = 0.505mW/g

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Date/Time: 06/02/2009 08:52:07

BODY_CH4183 repeated with HSDPA mode_(Fifth solution)

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: Body 900 Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.965 \text{ mho/m}$; $\epsilon_r = 56$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

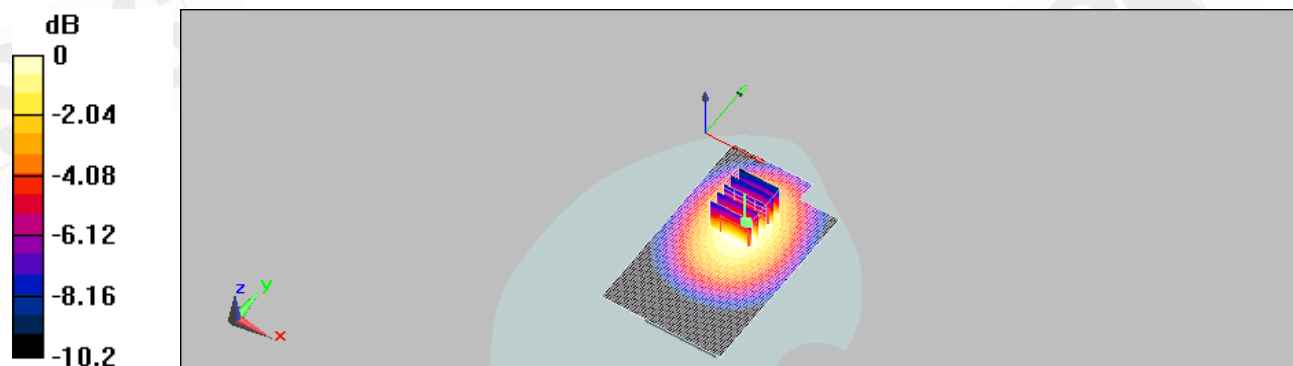
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.87, 10.87, 10.87); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.491 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 6.74 V/m; Power Drift = -0.070 dB
Peak SAR (extrapolated) = 0.615 W/kg

SAR(1 g) = 0.456 mW/g; SAR(10 g) = 0.329 mW/g
Maximum value of SAR (measured) = 0.480 mW/g



0 dB = 0.480mW/g

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Date/Time: 06/02/2009 09:21:24

BODY_CH4183 repeated with HSUPA mode_(Fifth solution)

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: Body 900 Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.965 \text{ mho/m}$; $\epsilon_r = 56$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

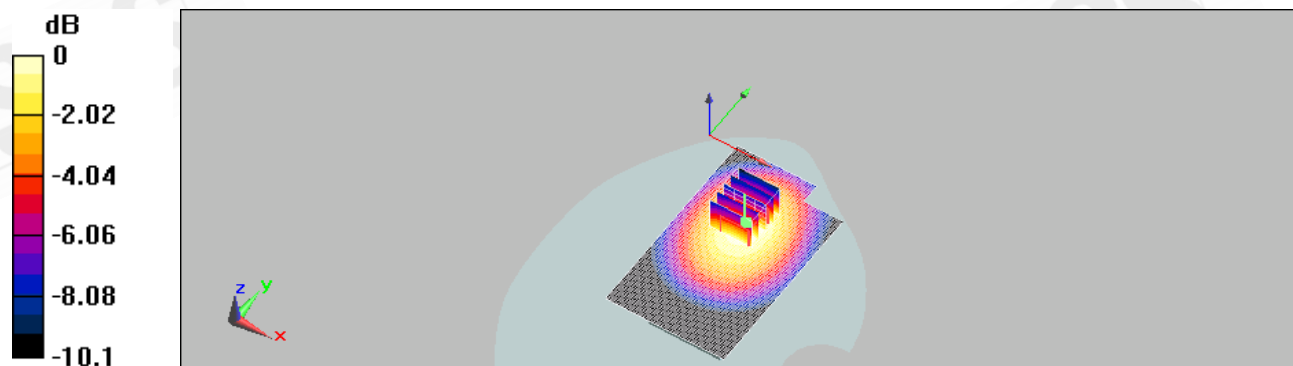
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.87, 10.87, 10.87); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.447 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 6.85 V/m; Power Drift = 0.137 dB
Peak SAR (extrapolated) = 0.580 W/kg

SAR(1 g) = 0.427 mW/g; SAR(10 g) = 0.308 mW/g
Maximum value of SAR (measured) = 0.453 mW/g



0 dB = 0.453mW/g

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Date/Time: 06/03/2009 05:42:46

BODY_CH11 repeated with Merry headset_WLAN802.11b_(Fifth solution)

DUT: HERO130;

Communication System: Wireless LAN; Frequency: 2462 MHz; Duty Cycle: 1:1
Medium: Body 2450 Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.93 \text{ mho/m}$; $\epsilon_r = 50$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

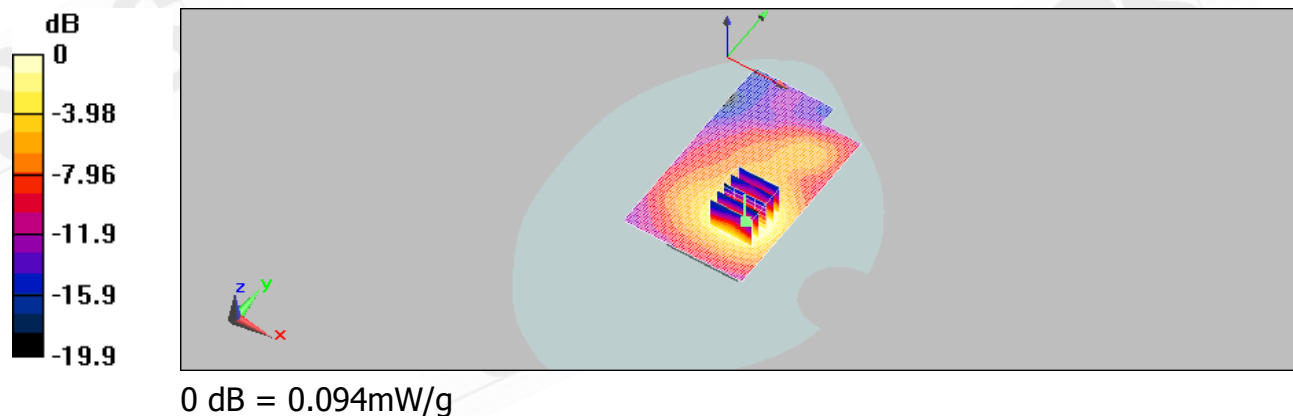
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.18, 8.18, 8.18); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.092 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 4.45 V/m; Power Drift = 0.061 dB
Peak SAR (extrapolated) = 0.155 W/kg

SAR(1 g) = 0.087 mW/g; SAR(10 g) = 0.049 mW/g
Maximum value of SAR (measured) = 0.094 mW/g



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Date/Time: 06/03/2009 06:11:19

BODY_CH1_WLAN802.11g_(Fifth solution)

DUT: HERO130;

Communication System: Wireless LAN; Frequency: 2412 MHz; Duty Cycle: 1:1
Medium: Body 2450 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.88$ mho/m; $\epsilon_r = 50.1$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

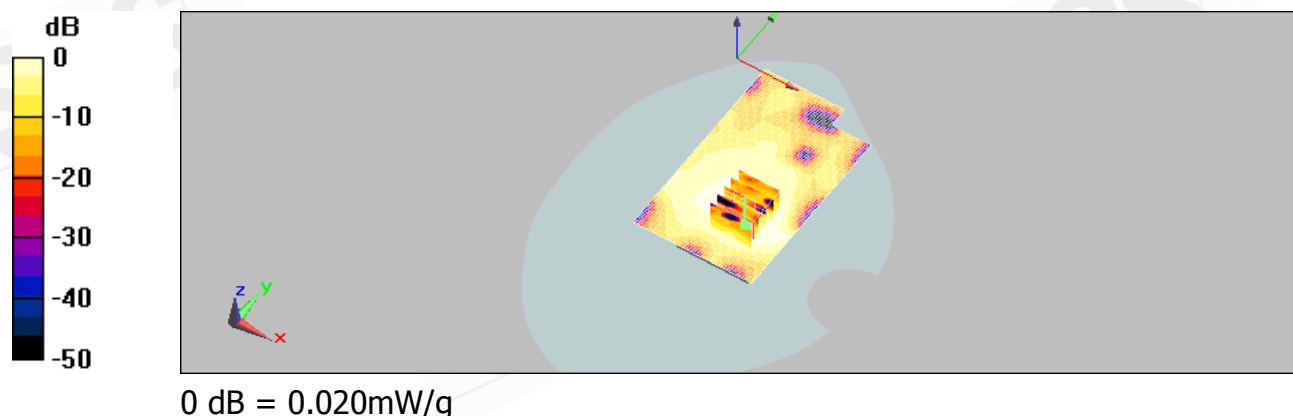
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.18, 8.18, 8.18); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.020 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.03 V/m; Power Drift = 0.139 dB
Peak SAR (extrapolated) = 0.034 W/kg

SAR(1 g) = 0.018 mW/g; SAR(10 g) = 0.00967 mW/g
Maximum value of SAR (measured) = 0.020 mW/g



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Date/Time: 06/02/2009 01:57:40

LE Cheek_CH251_(Sixth solution)

DUT: HERO130;

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

Medium: Head 900 Medium parameters used: $f = 849 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 39.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.93, 10.93, 10.93); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.572 mW/g

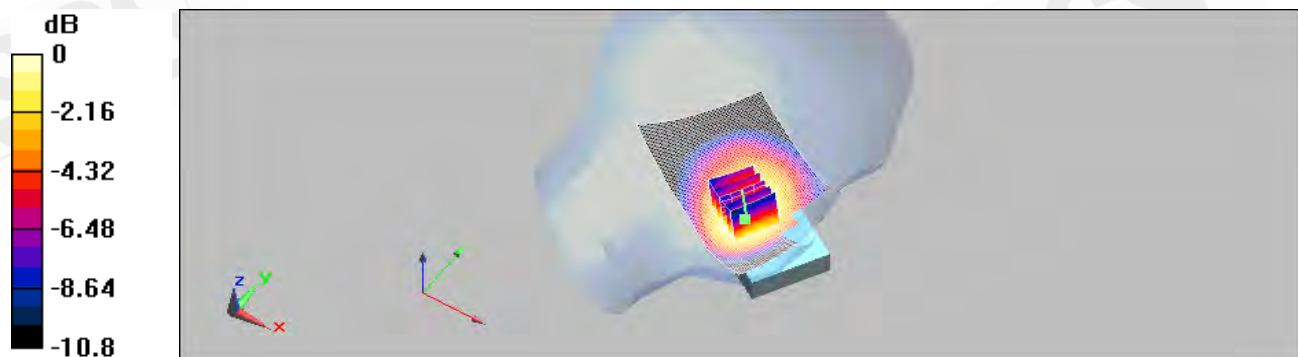
LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.8 V/m; Power Drift = -0.00768 dB

Peak SAR (extrapolated) = 0.696 W/kg

SAR(1 g) = 0.530 mW/g; SAR(10 g) = 0.390 mW/g

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



0 dB = 0.558mW/g

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Date/Time: 06/02/2009 07:03:07

BODY_CH251_(Sixth solution)

DUT: HERO130;

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:4
Medium: BODY 900 Medium parameters used: $f = 849$ MHz; $\sigma = 0.972$ mho/m; $\epsilon_r = 55.8$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

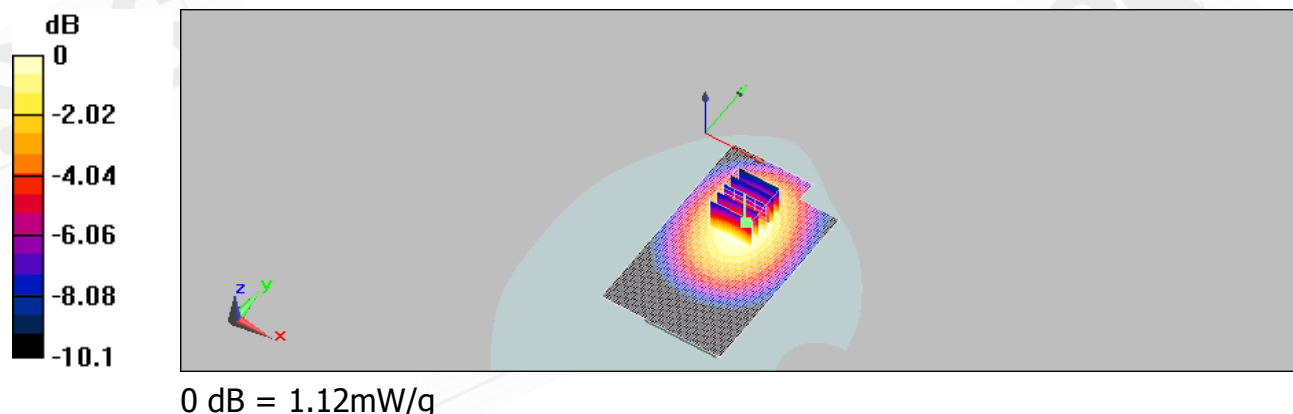
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.87, 10.87, 10.87); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.13 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.1 V/m; Power Drift = -0.117 dB
Peak SAR (extrapolated) = 1.43 W/kg

SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.759 mW/g
Maximum value of SAR (measured) = 1.12 mW/g



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Date/Time: 06/02/2009 15:56:09

LE Cheek_CH661_(Sixth solution)

DUT: HERO130;

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: Head 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 38.7$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.46, 9.46, 9.46); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

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

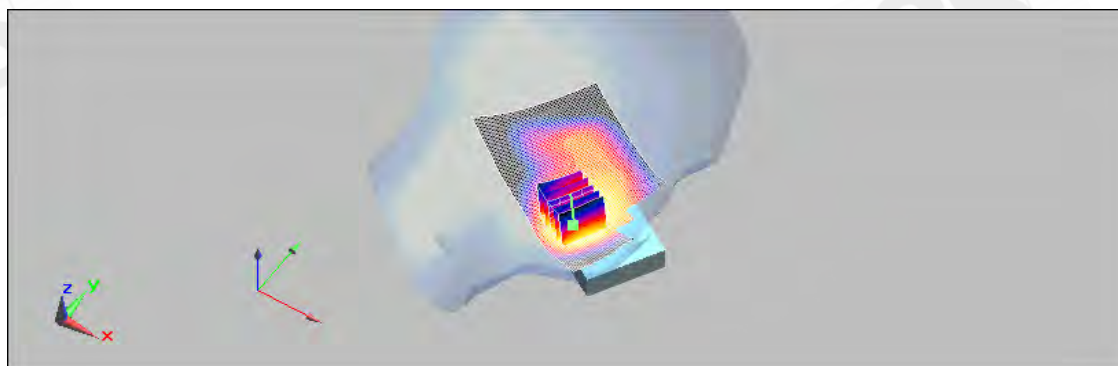
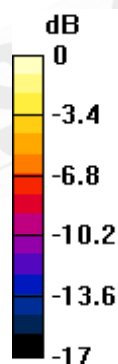
LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.3 V/m; Power Drift = -0.072 dB

Peak SAR (extrapolated) = 1.71 W/kg

SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.692 mW/g

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



0 dB = 1.19mW/g

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Date/Time: 06/02/2009 21:11:42

BODY_CH661_(Sixth solution)

DUT: HERO130;

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:4

Medium: BODY 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.28, 9.28, 9.28); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (interpolated) = 0.441 mW/g

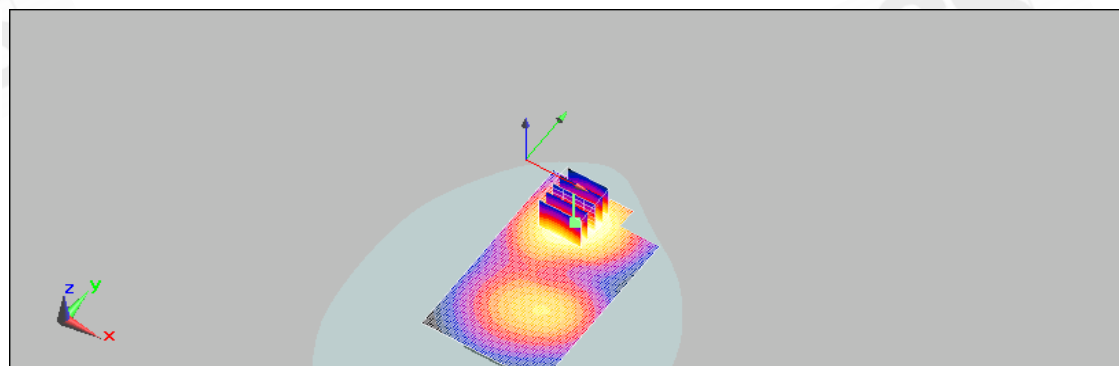
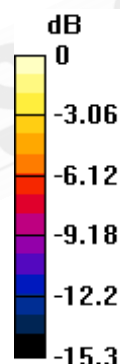
BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.24 V/m; Power Drift = -0.183 dB

Peak SAR (extrapolated) = 0.616 W/kg

SAR(1 g) = 0.392 mW/g; SAR(10 g) = 0.244 mW/g

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



0 dB = 0.420mW/g

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Date/Time: 06/02/2009 17:49:20

LE_Cheek_CH9538 repeated with Memory card_(Sixth solution)

DUT: HERO130;

Communication System: WCDMA B2; Frequency: 1907.6 MHz; Duty Cycle: 1:1
Medium: Head 1900 Medium parameters used: $f = 1908$ MHz; $\sigma = 1.48$ mho/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³
Phantom section: Left Section

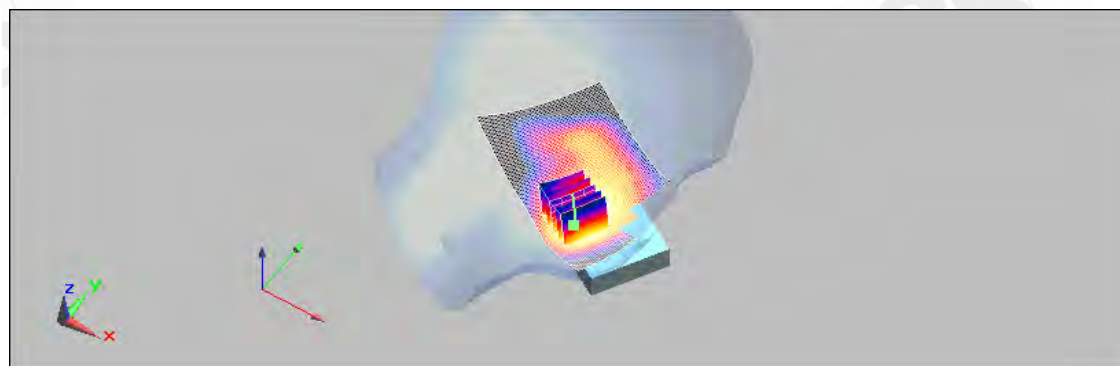
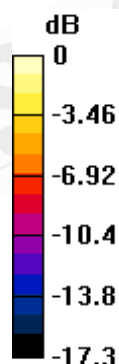
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.46, 9.46, 9.46); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.72 mW/g

LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.8 V/m; Power Drift = 0.120 dB
Peak SAR (extrapolated) = 2.44 W/kg

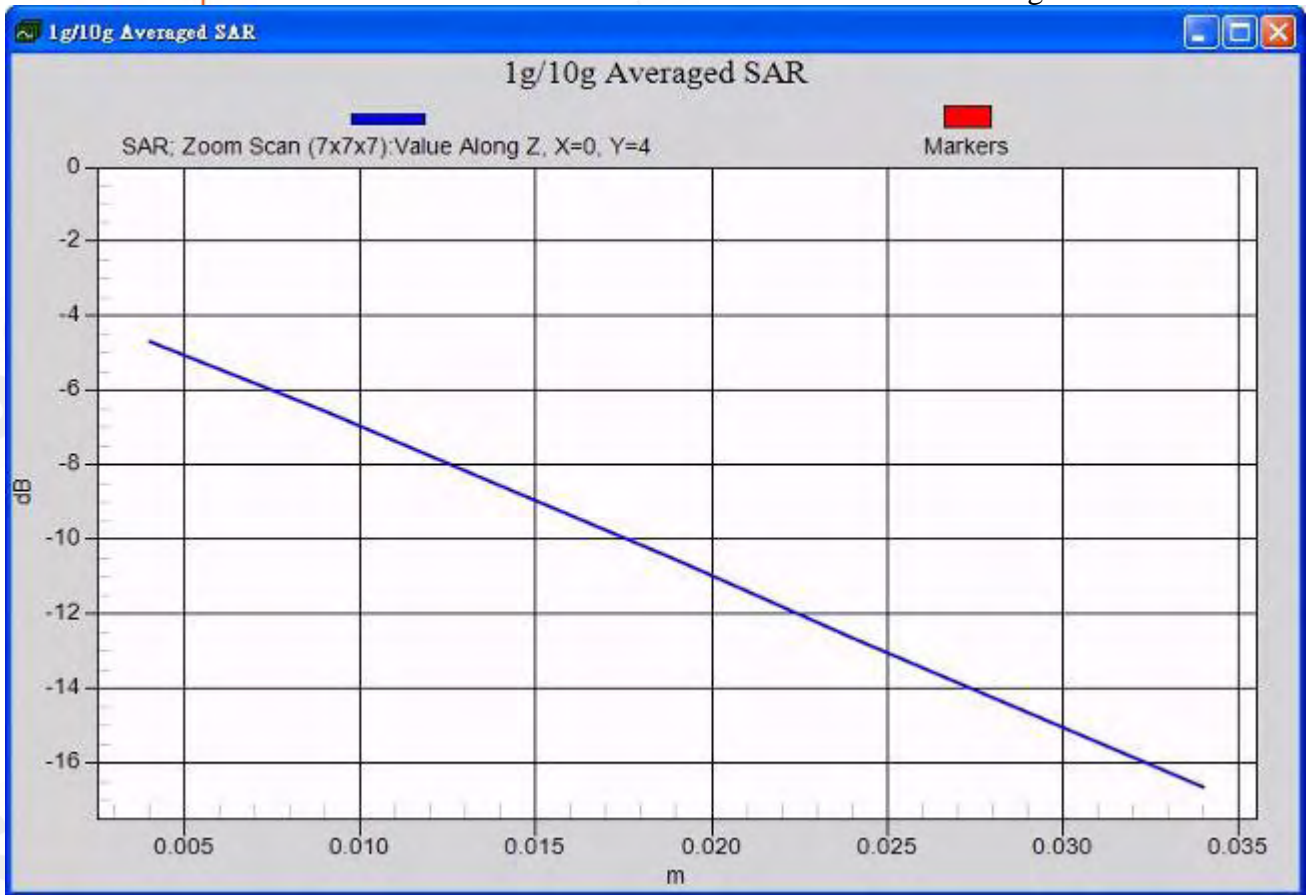
SAR(1 g) = 1.55 mW/g; SAR(10 g) = 0.982 mW/g
Maximum value of SAR (measured) = 1.69 mW/g



0 dB = 1.69mW/g

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Date/Time: 06/02/2009 23:56:26

BODY_CH9400_(Sixth solution)

DUT: HERO130;

Communication System: WCDMA B2; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: Body 1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_r = 53$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

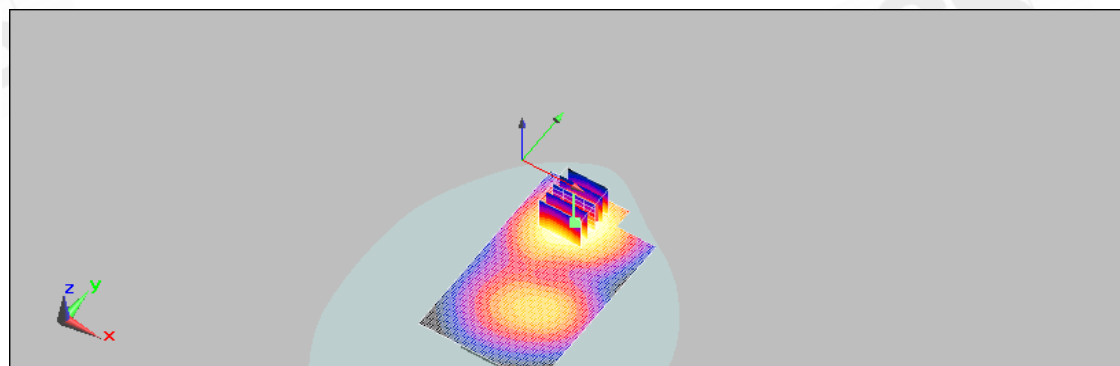
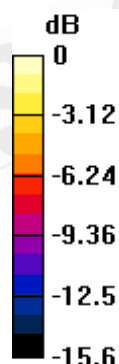
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.28, 9.28, 9.28); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.453 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 7.4 V/m; Power Drift = 0.166 dB
Peak SAR (extrapolated) = 0.667 W/kg

SAR(1 g) = 0.414 mW/g; SAR(10 g) = 0.254 mW/g
Maximum value of SAR (measured) = 0.445 mW/g



0 dB = 0.445mW/g

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Date/Time: 06/03/2009 00:23:57

BODY_CH9400 repeated with HSDPA mode_(Sixth solution)

DUT: HERO130;

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

Medium: Body 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.28, 9.28, 9.28); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (interpolated) = 0.412 mW/g

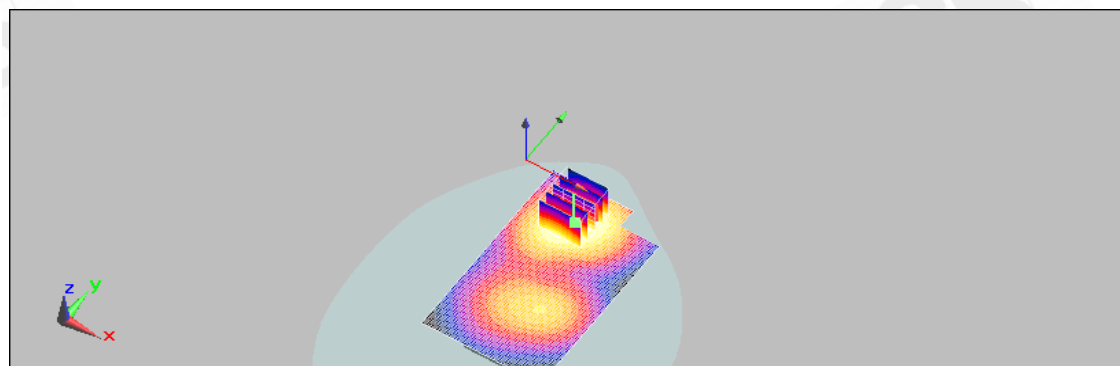
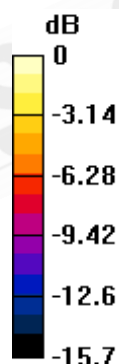
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.59 V/m; Power Drift = 0.134 dB

Peak SAR (extrapolated) = 0.611 W/kg

SAR(1 g) = 0.383 mW/g; SAR(10 g) = 0.236 mW/g

Maximum value of SAR (measured) = 0.412 mW/g



0 dB = 0.412mW/g

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Date/Time: 06/03/2009 00:52:54

BODY_CH9400 repeated with HSUPA mode_(Sixth solution)

DUT: HERO130;

Communication System: WCDMA B2; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: Body 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

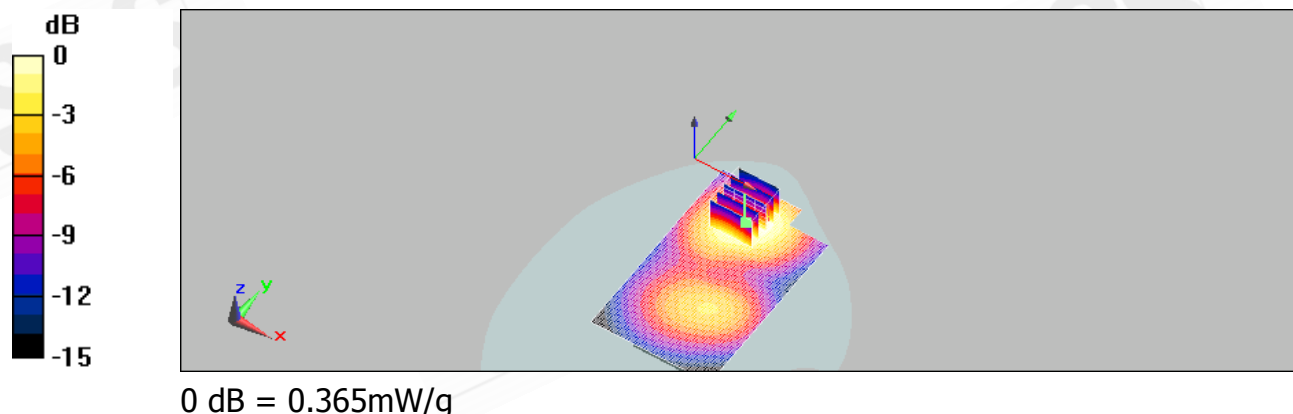
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.28, 9.28, 9.28); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.370 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.8 V/m; Power Drift = 0.169 dB
Peak SAR (extrapolated) = 0.529 W/kg

SAR(1 g) = 0.339 mW/g; SAR(10 g) = 0.212 mW/g
Maximum value of SAR (measured) = 0.365 mW/g



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Date/Time: 06/02/2009 03:45:48

RE Cheek_CH4183_(Sixth solution)

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: Head 900 Medium parameters used: $f = 837$ MHz; $\sigma = 0.869$ mho/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.93, 10.93, 10.93); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.475 mW/g

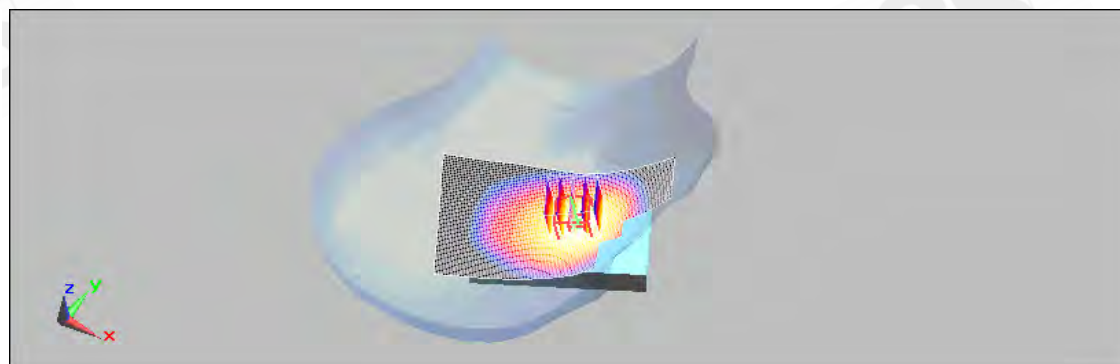
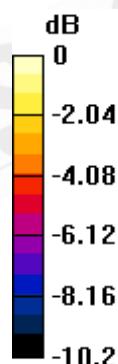
RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.5 V/m; Power Drift = 0.182 dB

Peak SAR (extrapolated) = 0.570 W/kg

SAR(1 g) = 0.469 mW/g; SAR(10 g) = 0.353 mW/g

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



0 dB = 0.493mW/g

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Date/Time: 06/02/2009 09:49:51

BODY_CH4183_(Sixth solution)

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: Body 900 Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.965 \text{ mho/m}$; $\epsilon_r = 56$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

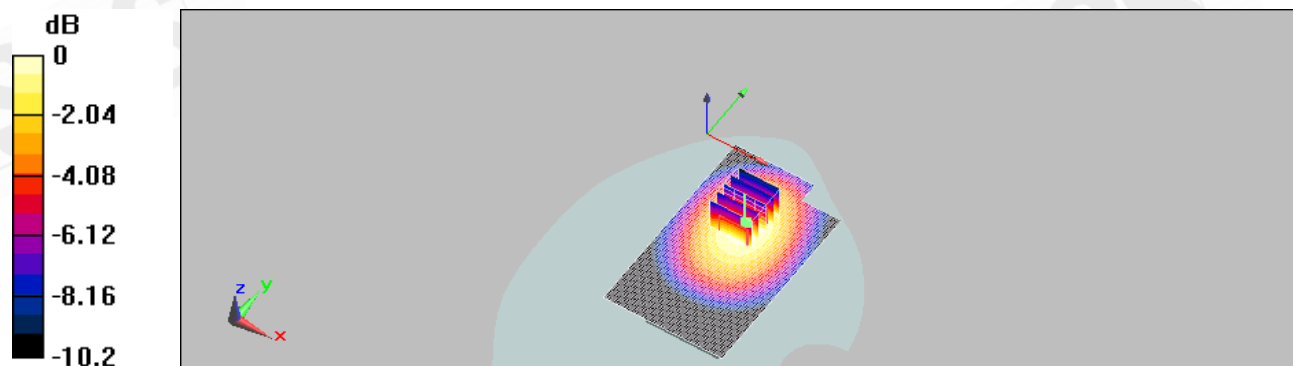
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.87, 10.87, 10.87); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.572 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 7.46 V/m; Power Drift = 0.204 dB
Peak SAR (extrapolated) = 0.749 W/kg

SAR(1 g) = 0.548 mW/g; SAR(10 g) = 0.396 mW/g
Maximum value of SAR (measured) = 0.578 mW/g



0 dB = 0.578mW/g

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Date/Time: 06/02/2009 10:16:26

BODY_CH4183 repeated with HSDPA mode_(Sixth solution)

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium: Body 900 Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.965 \text{ mho/m}$; $\epsilon_r = 56$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.87, 10.87, 10.87); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (interpolated) = 0.570 mW/g

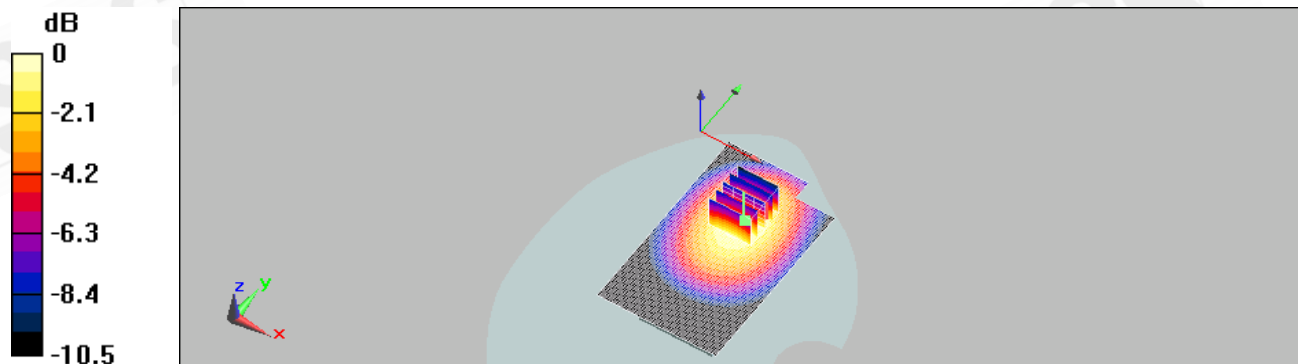
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 6.71 V/m; Power Drift = 0.193 dB

Peak SAR (extrapolated) = 0.759 W/kg

SAR(1 g) = 0.542 mW/g; SAR(10 g) = 0.382 mW/g

Maximum value of SAR (measured) = 0.577 mW/g



0 dB = 0.577mW/g

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Date/Time: 06/02/2009 10:45:12

BODY_CH4183 repeated with HSUPA mode_(Sixth solution)

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: Body 900 Medium parameters used: $f = 837$ MHz; $\sigma = 0.965$ mho/m; $\epsilon_r = 56$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

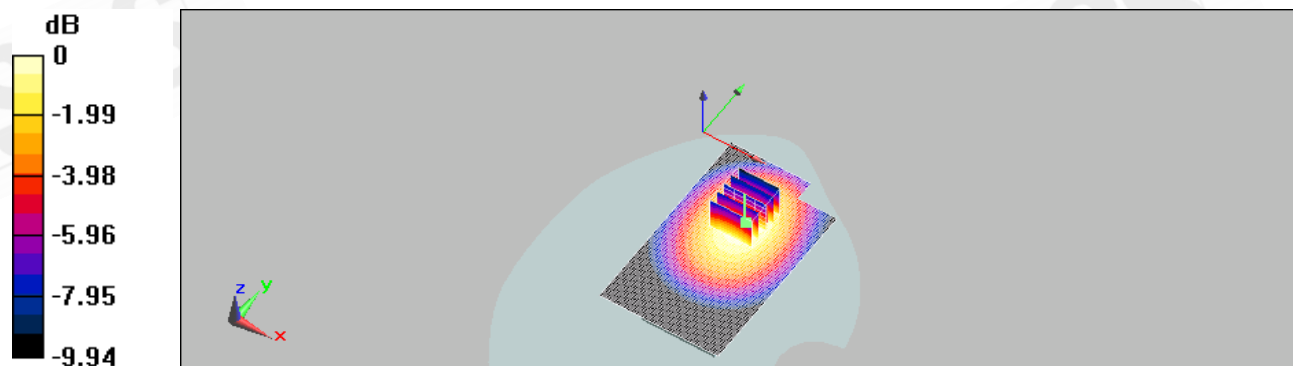
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.87, 10.87, 10.87); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.536 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.24 V/m; Power Drift = 0.115 dB
Peak SAR (extrapolated) = 0.681 W/kg

SAR(1 g) = 0.499 mW/g; SAR(10 g) = 0.360 mW/g
Maximum value of SAR (measured) = 0.529 mW/g



0 dB = 0.529mW/g

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Date/Time: 06/03/2009 06:39:01

BODY_CH11 repeated with Merry headset_WLAN802.11b_(Sixth solution)

DUT: HERO130;

Communication System: Wireless LAN; Frequency: 2462 MHz; Duty Cycle: 1:1
Medium: Body 2450 Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.93 \text{ mho/m}$; $\epsilon_r = 50$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

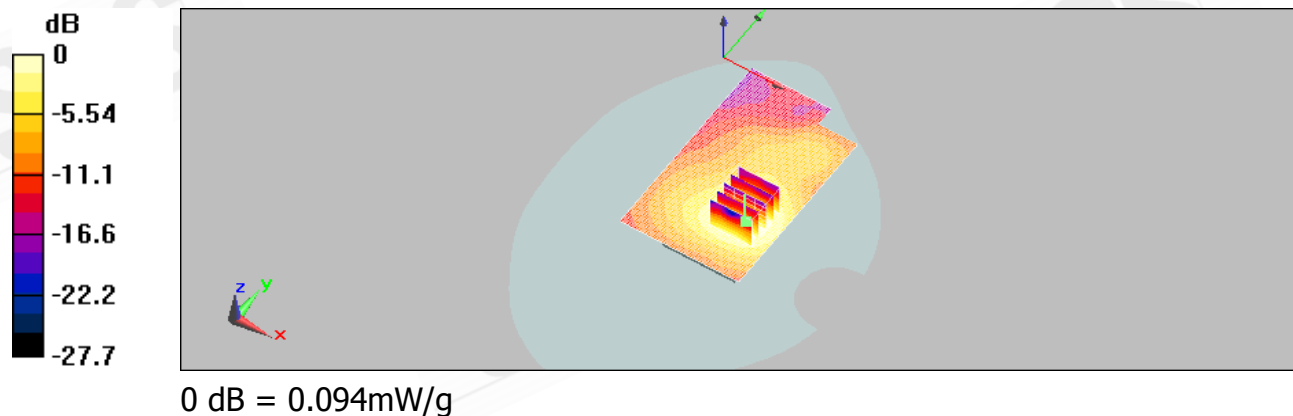
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.18, 8.18, 8.18); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.093 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 4.34 V/m; Power Drift = 0.137 dB
Peak SAR (extrapolated) = 0.153 W/kg

SAR(1 g) = 0.087 mW/g; SAR(10 g) = 0.049 mW/g
Maximum value of SAR (measured) = 0.094 mW/g



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Date/Time: 06/03/2009 07:06:47

BODY_CH1_WLAN802.11g_(Sixth solution)

DUT: HERO130;

Communication System: Wireless LAN; Frequency: 2412 MHz; Duty Cycle: 1:1
Medium: Body 2450 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.88$ mho/m; $\epsilon_r = 50.1$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

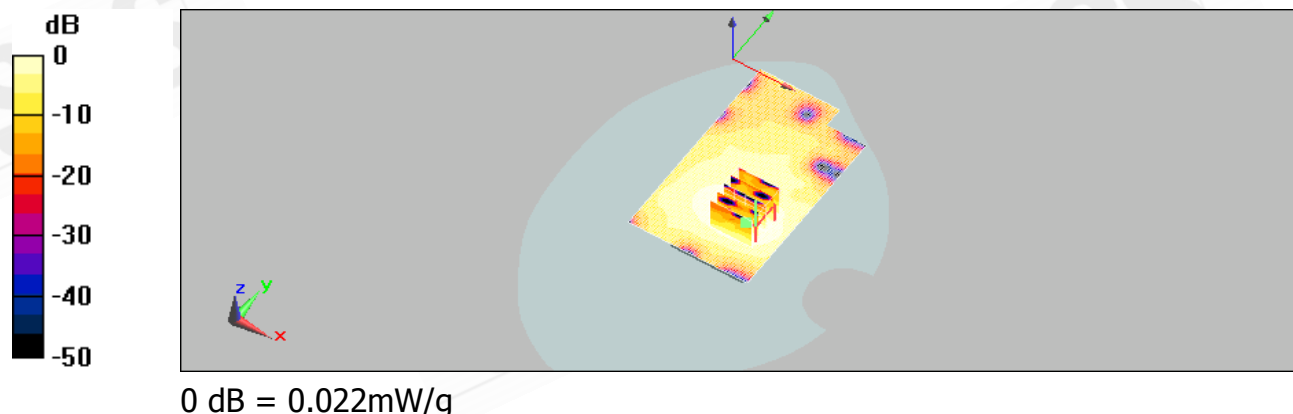
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.18, 8.18, 8.18); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.027 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.13 V/m; Power Drift = 0.129 dB
Peak SAR (extrapolated) = 0.037 W/kg

SAR(1 g) = 0.020 mW/g; SAR(10 g) = 0.010 mW/g
Maximum value of SAR (measured) = 0.022 mW/g



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Date/Time: 06/02/2009 02:23:12

LE Cheek_CH251_(Seventh solution)

DUT: HERO130;

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3
Medium: Head 900 Medium parameters used: $f = 849$ MHz; $\sigma = 0.87$ mho/m; $\epsilon_r = 39.6$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.93, 10.93, 10.93); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.618 mW/g

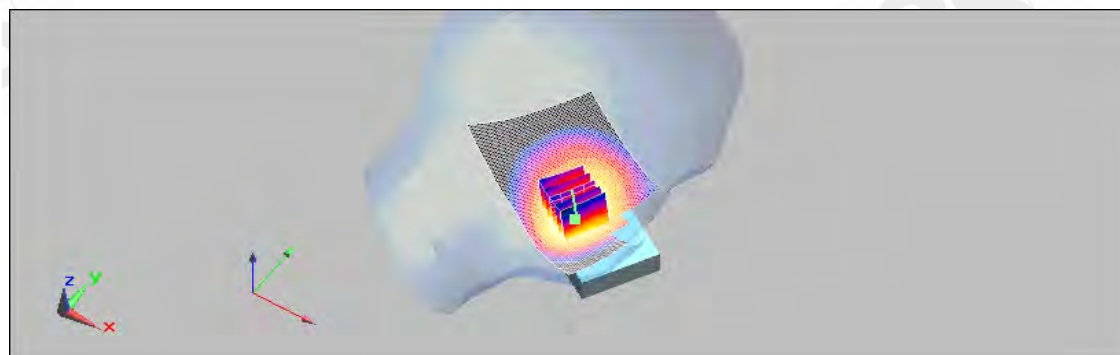
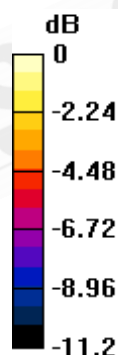
LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.1 V/m; Power Drift = -0.094 dB

Peak SAR (extrapolated) = 0.761 W/kg

SAR(1 g) = 0.565 mW/g; SAR(10 g) = 0.411 mW/g

Maximum value of SAR (measured) = 0.599 mW/g



0 dB = 0.599mW/g

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Date/Time: 06/02/2009 07:29:25

BODY_CH251_(Seventh solution)

DUT: HERO130;

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:4
Medium: BODY 900 Medium parameters used: $f = 849$ MHz; $\sigma = 0.972$ mho/m; $\epsilon_r = 55.8$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

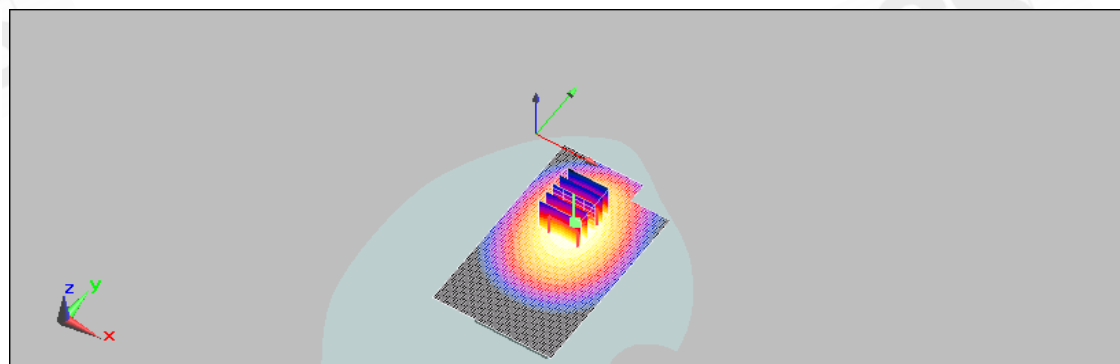
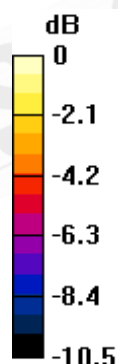
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.87, 10.87, 10.87); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.18 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.9 V/m; Power Drift = -0.153 dB
Peak SAR (extrapolated) = 1.49 W/kg

SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.786 mW/g
Maximum value of SAR (measured) = 1.15 mW/g



0 dB = 1.15mW/g

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Date/Time: 06/02/2009 16:23:35

LE Cheek_CH661_(Seventh solution)

DUT: HERO130;

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3
Medium: Head 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 38.7$; $\rho = 1000$ kg/m³
Phantom section: Left Section

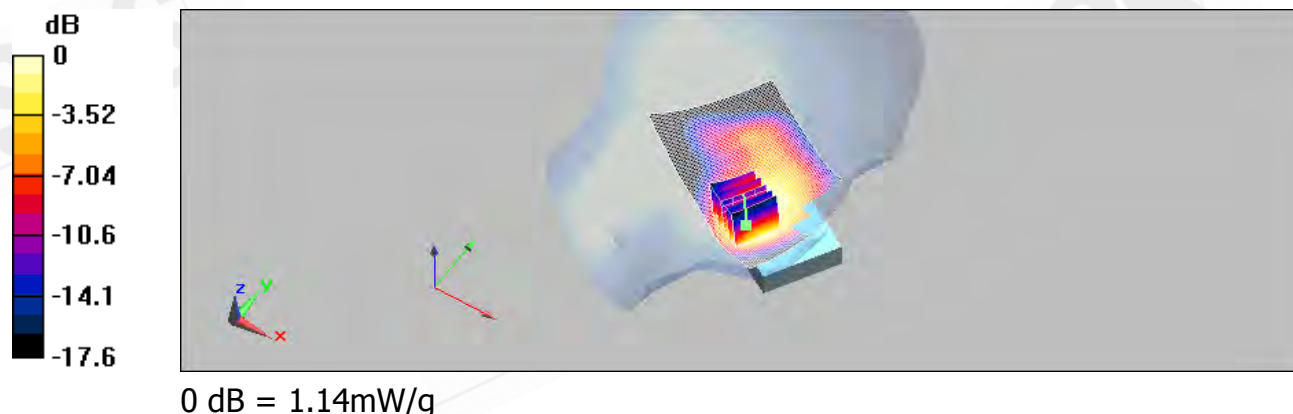
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.46, 9.46, 9.46); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.17 mW/g

LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.7 V/m; Power Drift = -0.018 dB
Peak SAR (extrapolated) = 1.68 W/kg

SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.649 mW/g
Maximum value of SAR (measured) = 1.14 mW/g



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Date/Time: 06/02/2009 21:39:40

BODY_CH661_(Seventh solution)

DUT: HERO130;

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:4
Medium: BODY 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

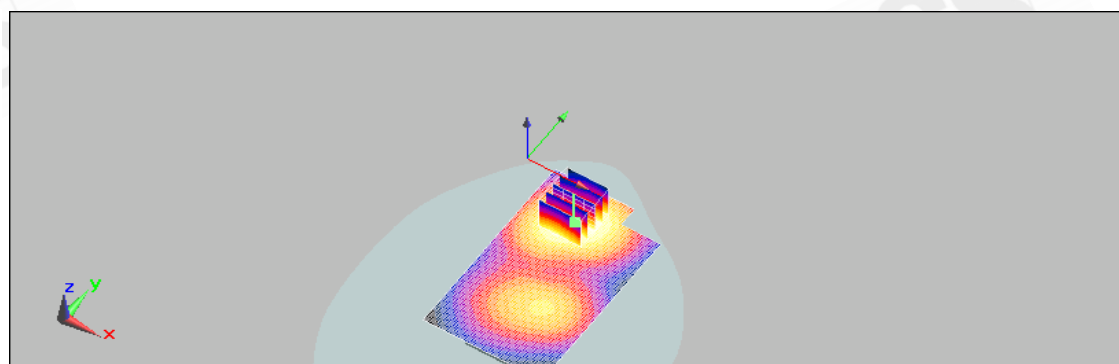
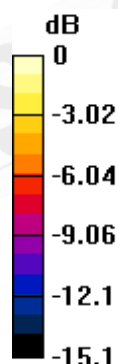
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.28, 9.28, 9.28); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.445 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.52 V/m; Power Drift = -0.070 dB
Peak SAR (extrapolated) = 0.624 W/kg

SAR(1 g) = 0.398 mW/g; SAR(10 g) = 0.249 mW/g
Maximum value of SAR (measured) = 0.428 mW/g



0 dB = 0.428mW/g

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Date/Time: 06/02/2009 18:18:49

LE Cheek_CH9538 repeated with Memory card_(Seventh solution)

DUT: HERO130;

Communication System: WCDMA B2; Frequency: 1907.6 MHz; Duty Cycle: 1:1
Medium: Head 1900 Medium parameters used: $f = 1908$ MHz; $\sigma = 1.48$ mho/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³
Phantom section: Left Section

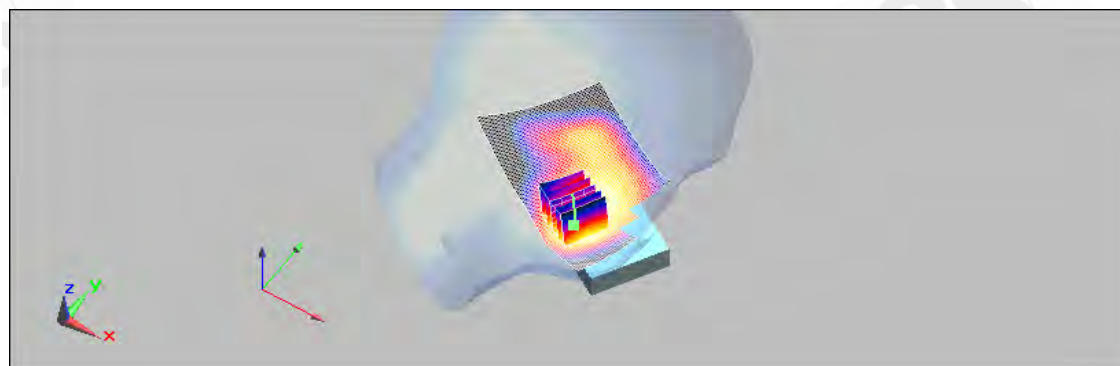
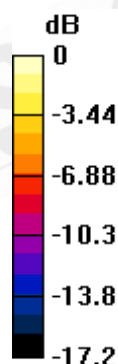
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.46, 9.46, 9.46); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.65 mW/g

LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.8 V/m; Power Drift = 0.058 dB
Peak SAR (extrapolated) = 2.33 W/kg

SAR(1 g) = 1.5 mW/g; SAR(10 g) = 0.941 mW/g
Maximum value of SAR (measured) = 1.63 mW/g



0 dB = 1.63mW/g

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Date/Time: 06/03/2009 01:20:54

BODY_CH9400_(Seventh solution)

DUT: HERO130;

Communication System: WCDMA B2; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: Body 1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_r = 53$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

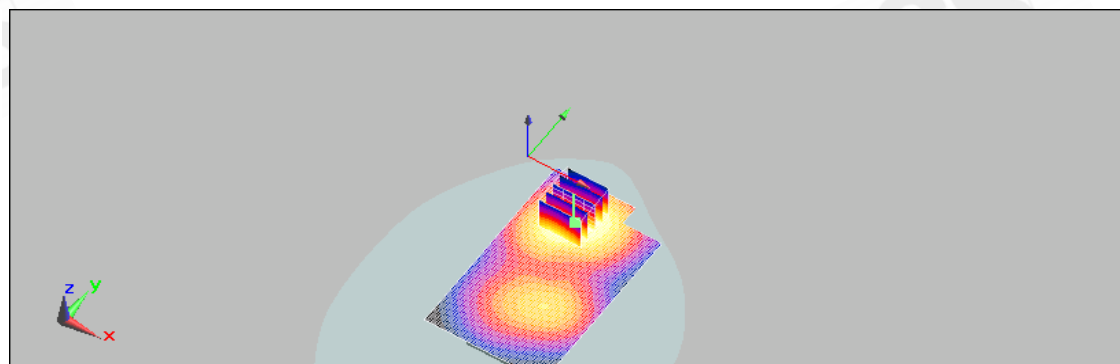
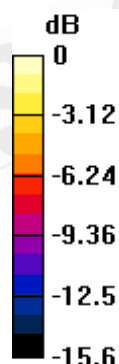
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.28, 9.28, 9.28); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.424 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 7.68 V/m; Power Drift = 0.165 dB
Peak SAR (extrapolated) = 0.616 W/kg

SAR(1 g) = 0.387 mW/g; SAR(10 g) = 0.240 mW/g
Maximum value of SAR (measured) = 0.416 mW/g



0 dB = 0.416mW/g

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Date/Time: 06/03/2009 01:49:47

BODY_CH9400 repeated with HSDPA mode_(Seventh solution)

DUT: HERO130;

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

Medium: Body 1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_r = 53$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.28, 9.28, 9.28); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (interpolated) = 0.405 mW/g

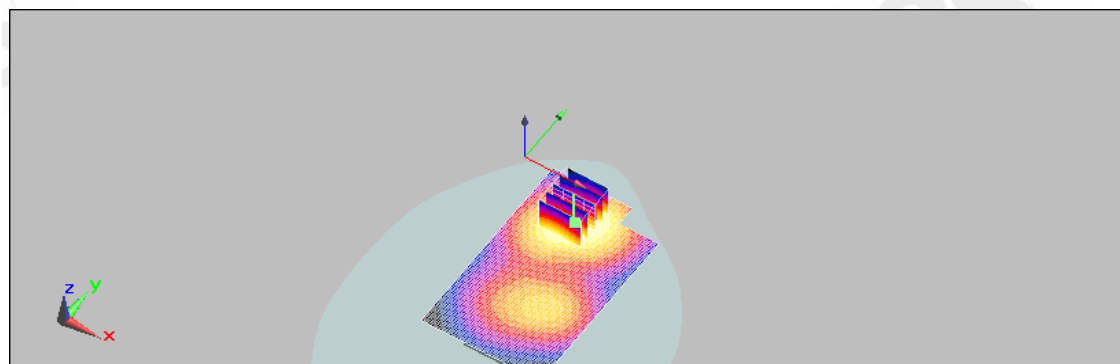
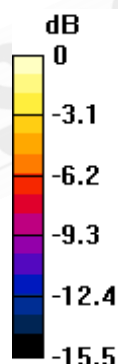
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.35 V/m; Power Drift = 0.146 dB

Peak SAR (extrapolated) = 0.607 W/kg

SAR(1 g) = 0.376 mW/g; SAR(10 g) = 0.231 mW/g

Maximum value of SAR (measured) = 0.406 mW/g



0 dB = 0.406mW/g

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Date/Time: 06/03/2009 02:16:16

BODY_CH9400 repeated with HSUPA mode_(Seventh solution)

DUT: HERO130;

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

Medium: Body 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.28, 9.28, 9.28); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/26/2009
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (interpolated) = 0.361 mW/g

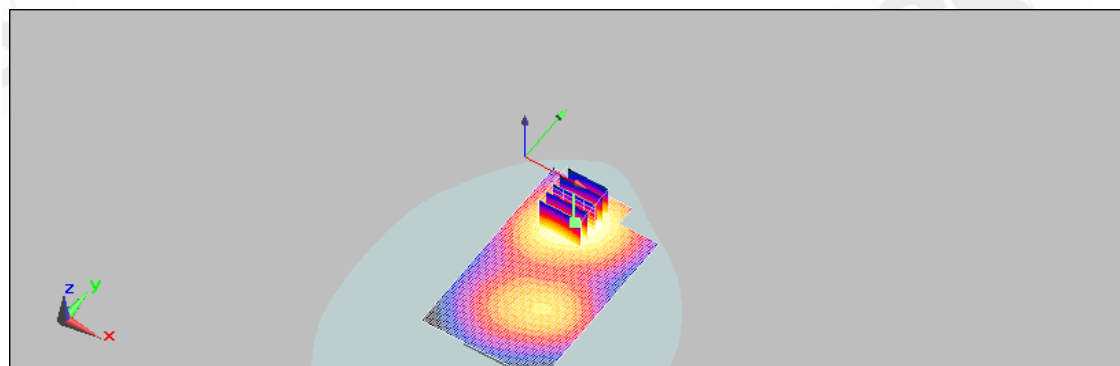
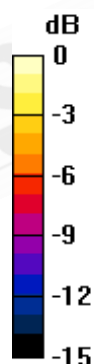
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.98 V/m; Power Drift = 0.129 dB

Peak SAR (extrapolated) = 0.515 W/kg

SAR(1 g) = 0.332 mW/g; SAR(10 g) = 0.209 mW/g

Maximum value of SAR (measured) = 0.357 mW/g



0 dB = 0.357mW/g

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Date/Time: 06/02/2009 04:12:40

RE Cheek_CH4183_(Seventh solution)

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: Head 900 Medium parameters used: $f = 837$ MHz; $\sigma = 0.869$ mho/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.93, 10.93, 10.93); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.563 mW/g

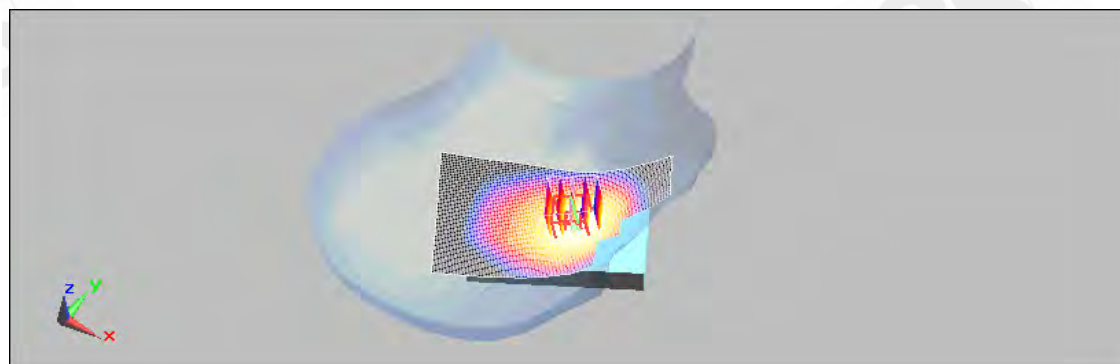
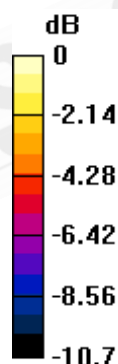
RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.7 V/m; Power Drift = 0.112 dB

Peak SAR (extrapolated) = 0.659 W/kg

SAR(1 g) = 0.545 mW/g; SAR(10 g) = 0.412 mW/g

Maximum value of SAR (measured) = 0.574 mW/g



0 dB = 0.574mW/g

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Date/Time: 06/02/2009 11:12:48

BODY_CH4183_(Seventh solution)

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: Body 900 Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.965 \text{ mho/m}$; $\epsilon_r = 56$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

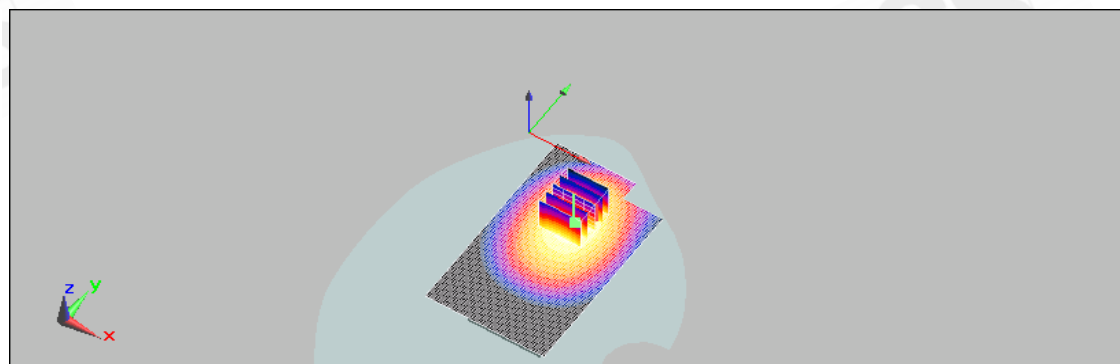
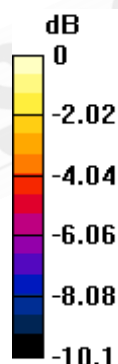
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.87, 10.87, 10.87); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.630 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 6.98 V/m; Power Drift = 0.082 dB
Peak SAR (extrapolated) = 0.819 W/kg

SAR(1 g) = 0.596 mW/g; SAR(10 g) = 0.428 mW/g
Maximum value of SAR (measured) = 0.631 mW/g



0 dB = 0.631mW/g

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Date/Time: 06/02/2009 11:40:19

BODY_CH4183 repeated with HSDPA mode_(Seventh solution)

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: Body 900 Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.965 \text{ mho/m}$; $\epsilon_r = 56$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

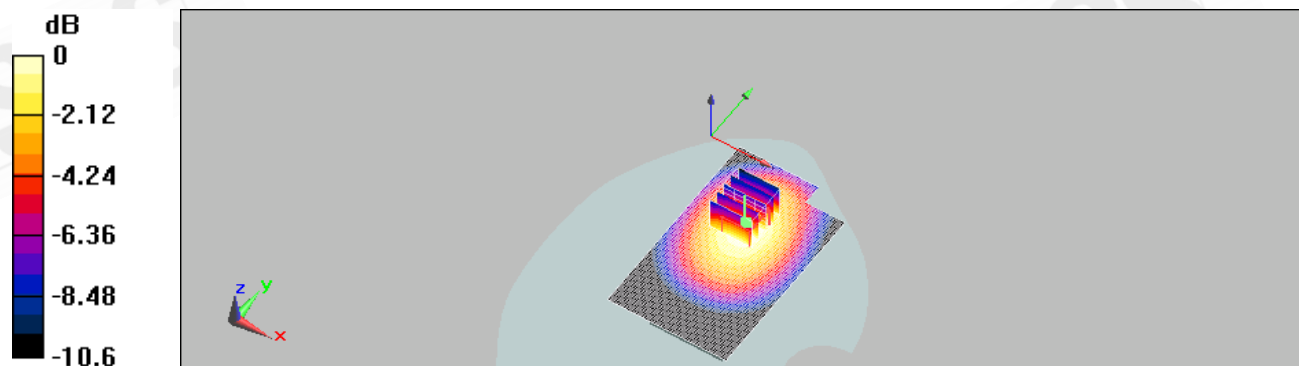
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.87, 10.87, 10.87); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.574 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$,
 $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 7.39 V/m; Power Drift = 0.098 dB
Peak SAR (extrapolated) = 0.746 W/kg

SAR(1 g) = 0.549 mW/g; SAR(10 g) = 0.392 mW/g
Maximum value of SAR (measured) = 0.576 mW/g



0 dB = 0.576mW/g

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Date/Time: 06/02/2009 12:06:52

BODY_CH4183 repeated with HSUPA mode_(Seventh solution)

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: Body 900 Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.965 \text{ mho/m}$; $\epsilon_r = 56$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

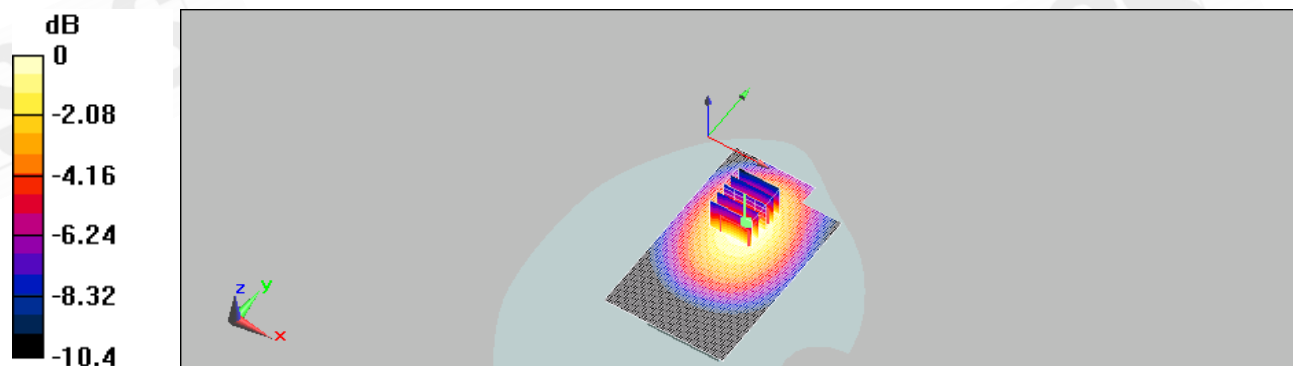
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.87, 10.87, 10.87); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.554 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 7.29 V/m; Power Drift = 0.103 dB
Peak SAR (extrapolated) = 0.726 W/kg

SAR(1 g) = 0.530 mW/g; SAR(10 g) = 0.380 mW/g
Maximum value of SAR (measured) = 0.561 mW/g



0 dB = 0.561mW/g

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Date/Time: 06/03/2009 07:34:21

BODY_CH11 repeated with Merry headset_WLAN802.11b_(Seventh solution)

DUT: HERO130;

Communication System: Wireless LAN; Frequency: 2462 MHz; Duty Cycle: 1:1
Medium: Body 2450 Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.93 \text{ mho/m}$; $\epsilon_r = 50$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

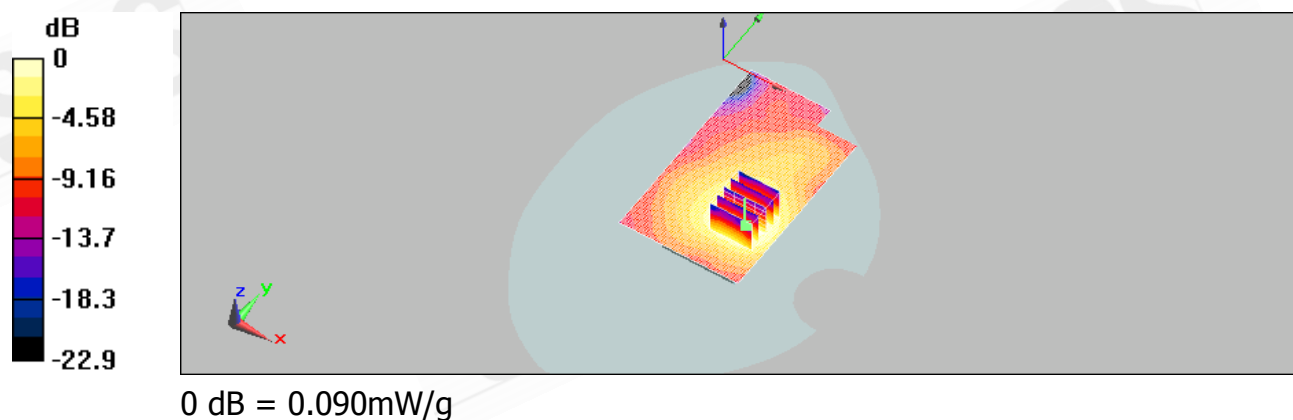
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.18, 8.18, 8.18); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.087 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 4.39 V/m; Power Drift = 0.013 dB
Peak SAR (extrapolated) = 0.143 W/kg

SAR(1 g) = 0.083 mW/g; SAR(10 g) = 0.048 mW/g
Maximum value of SAR (measured) = 0.090 mW/g



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Date/Time: 06/03/2009 08:03:38

BODY_CH1_WLAN802.11g_(Seventh solution)

DUT: HERO130;

Communication System: Wireless LAN; Frequency: 2412 MHz; Duty Cycle: 1:1
Medium: Body 2450 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.88$ mho/m; $\epsilon_r = 50.1$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

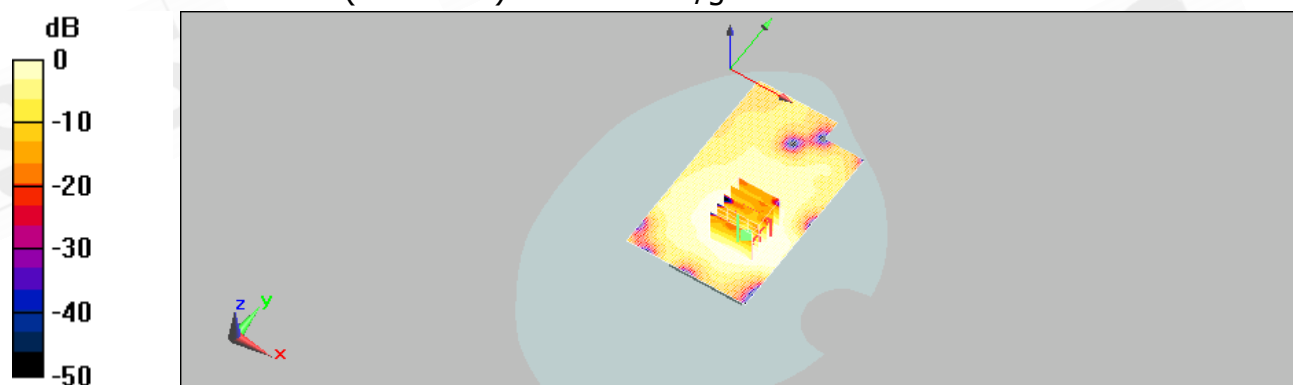
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.18, 8.18, 8.18); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.021 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.04 V/m; Power Drift = 0.183 dB
Peak SAR (extrapolated) = 0.033 W/kg

SAR(1 g) = 0.019 mW/g; SAR(10 g) = 0.011 mW/g
Maximum value of SAR (measured) = 0.020 mW/g



0 dB = 0.020mW/g

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Date/Time: 06/02/2009 02:51:05

LE Cheek_CH251_(Eighth solution)

DUT: HERO130;

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

Medium: Head 900 Medium parameters used: $f = 849 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 39.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.93, 10.93, 10.93); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.677 mW/g

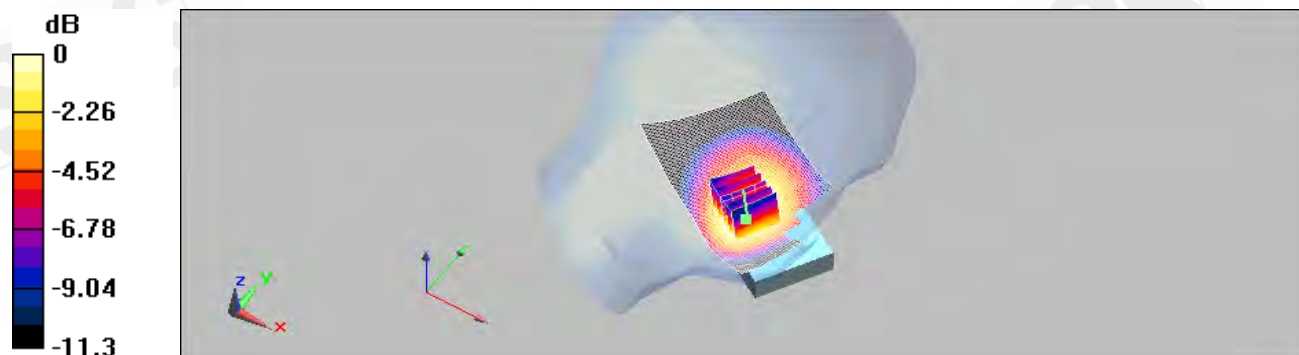
LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.3 V/m; Power Drift = 0.00858 dB

Peak SAR (extrapolated) = 0.861 W/kg

SAR(1 g) = 0.637 mW/g; SAR(10 g) = 0.460 mW/g

Maximum value of SAR (measured) = 0.667 mW/g



0 dB = 0.667mW/g

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Date/Time: 06/02/2009 07:58:04

BODY_CH251_(Eighth solution)

DUT: HERO130;

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:4
Medium: BODY 900 Medium parameters used: $f = 849$ MHz; $\sigma = 0.972$ mho/m; $\epsilon_r = 55.8$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

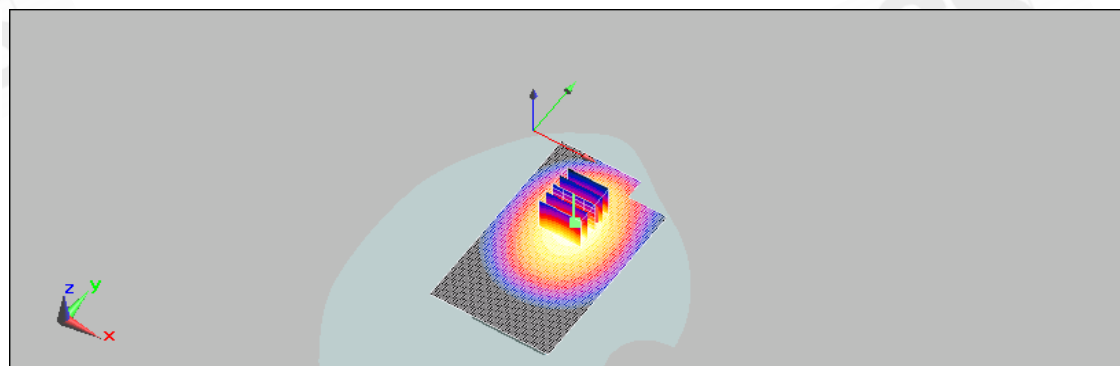
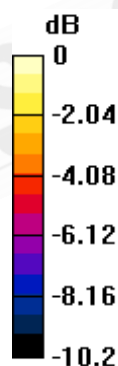
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.87, 10.87, 10.87); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.29 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.4 V/m; Power Drift = -0.189 dB
Peak SAR (extrapolated) = 1.66 W/kg

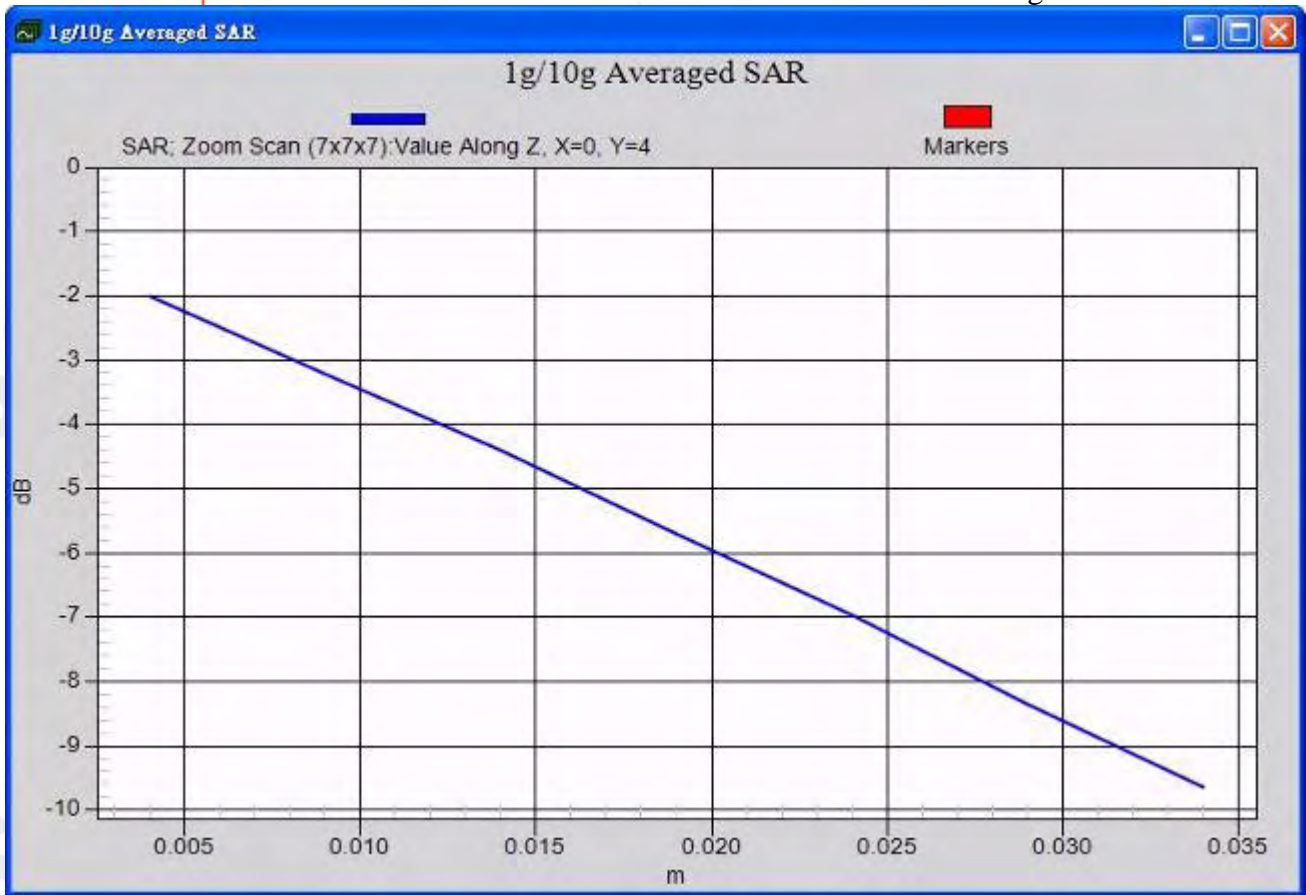
SAR(1 g) = 1.2 mW/g; SAR(10 g) = 0.861 mW/g
Maximum value of SAR (measured) = 1.27 mW/g



0 dB = 1.27mW/g

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Date/Time: 06/02/2009 16:52:00

LE Cheek_CH661_(Eighth solution)

DUT: HERO130;

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: Head 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 38.7$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.46, 9.46, 9.46); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

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

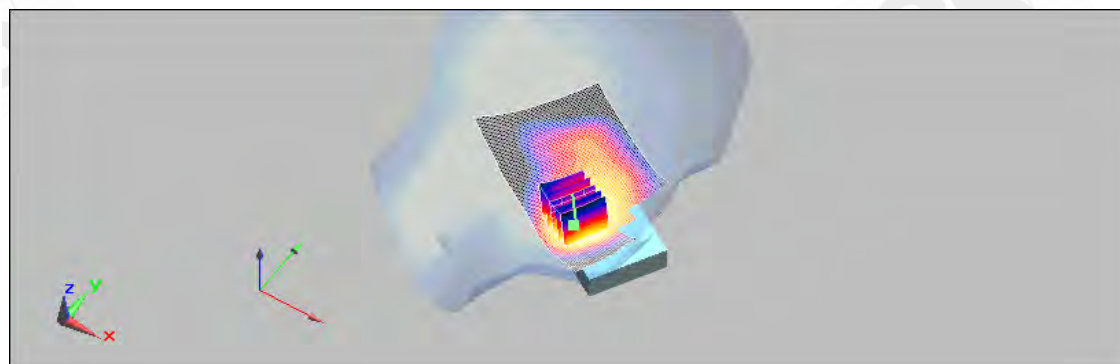
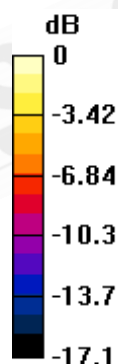
LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.8 V/m; Power Drift = 0.00694 dB

Peak SAR (extrapolated) = 1.76 W/kg

SAR(1 g) = 1.12 mW/g; SAR(10 g) = 0.692 mW/g

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



0 dB = 1.22mW/g

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Date/Time: 06/02/2009 22:06:53

BODY_CH661_(Eighth solution)

DUT: HERO130;

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:4
Medium: BODY 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

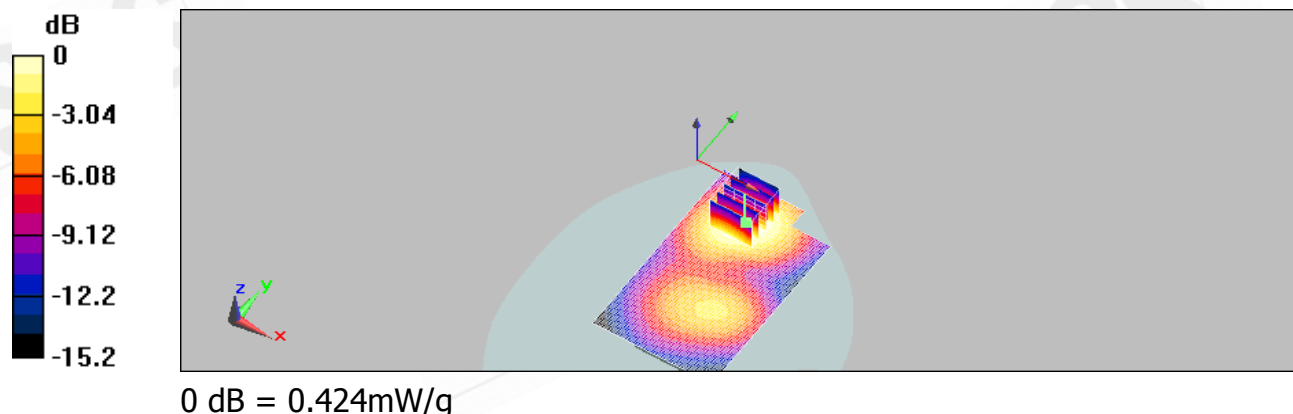
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.28, 9.28, 9.28); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

BODY/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.441 mW/g

BODY/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.64 V/m; Power Drift = -0.199 dB
Peak SAR (extrapolated) = 0.620 W/kg

SAR(1 g) = 0.393 mW/g; SAR(10 g) = 0.244 mW/g
Maximum value of SAR (measured) = 0.424 mW/g



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Date/Time: 06/02/2009 18:44:45

LE Cheek_CH9538 repeated with Memory card_(Eighth solution)

DUT: HERO130;

Communication System: WCDMA B2; Frequency: 1907.6 MHz; Duty Cycle: 1:1
Medium: Head 1900 Medium parameters used: $f = 1908$ MHz; $\sigma = 1.48$ mho/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³
Phantom section: Left Section

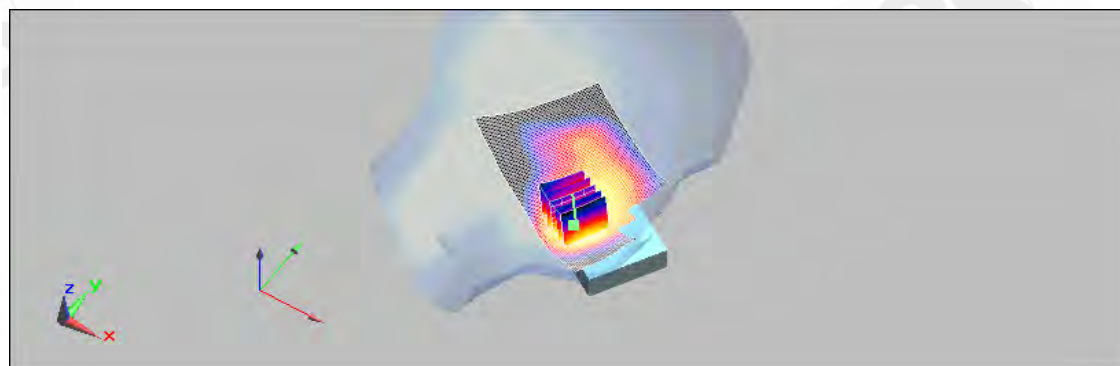
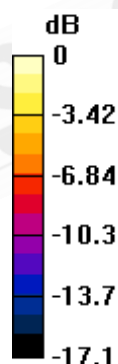
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.46, 9.46, 9.46); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

LE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.73 mW/g

LE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.5 V/m; Power Drift = -0.178 dB
Peak SAR (extrapolated) = 2.48 W/kg

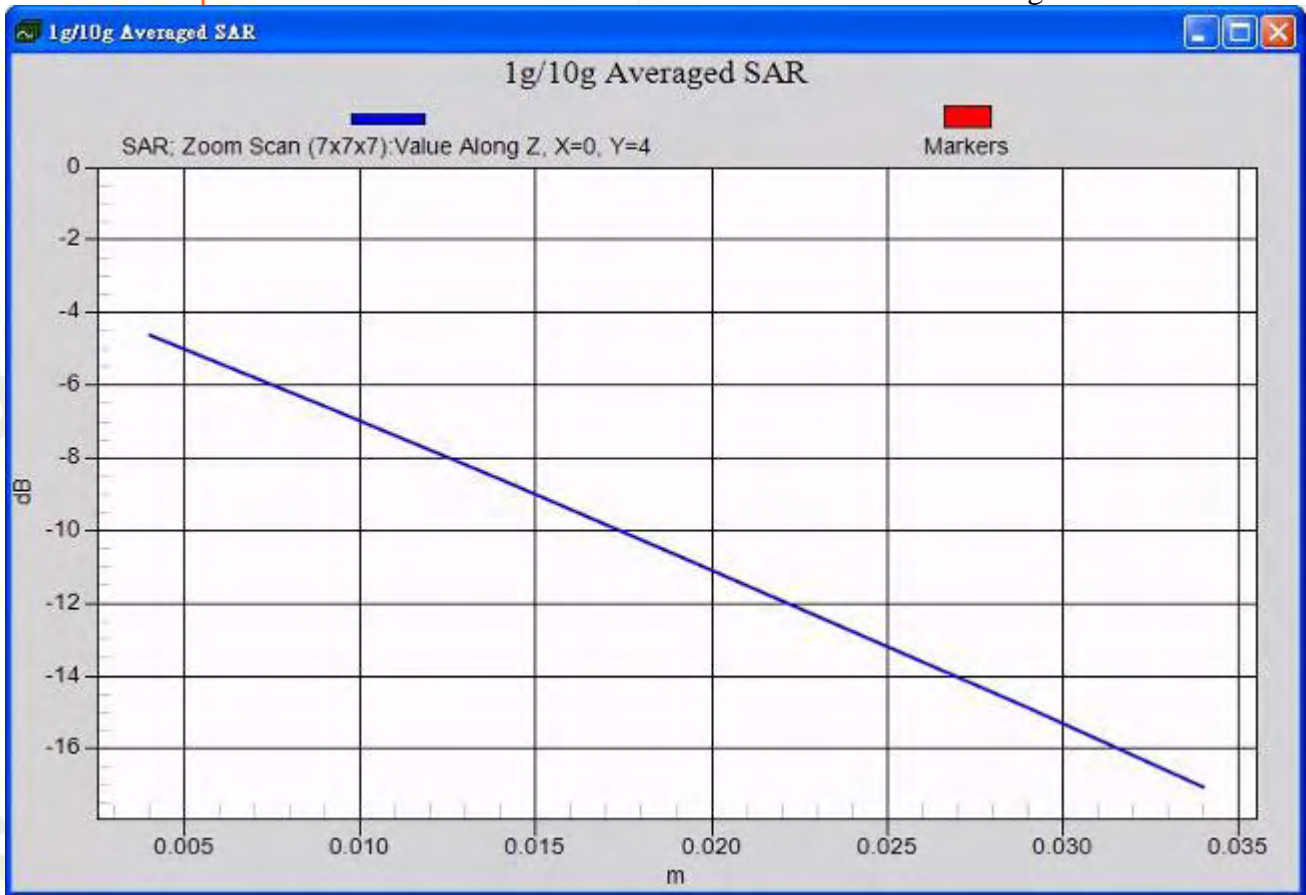
SAR(1 g) = 1.56 mW/g; SAR(10 g) = 0.958 mW/g
Maximum value of SAR (measured) = 1.69 mW/g



0 dB = 1.69mW/g

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Date/Time: 06/03/2009 02:43:31

BODY_CH9400_(Eighth solution)

DUT: HERO130;

Communication System: WCDMA B2; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: Body 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

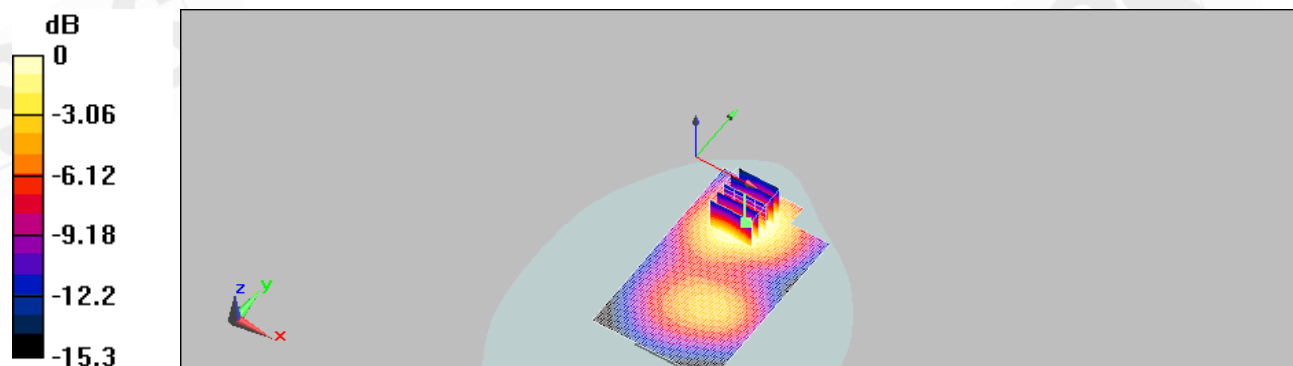
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.28, 9.28, 9.28); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.460 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.98 V/m; Power Drift = -0.00327 dB
Peak SAR (extrapolated) = 0.667 W/kg

SAR(1 g) = 0.417 mW/g; SAR(10 g) = 0.257 mW/g
Maximum value of SAR (measured) = 0.449 mW/g



0 dB = 0.449mW/g

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Date/Time: 06/03/2009 03:12:34

BODY_CH9400 repeated with HSDPA mode_(Eighth solution)

DUT: HERO130;

Communication System: WCDMA B2; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: Body 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

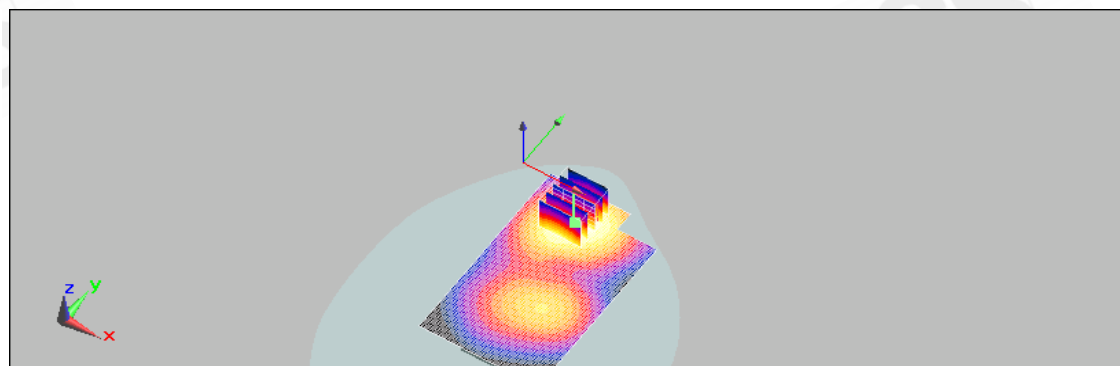
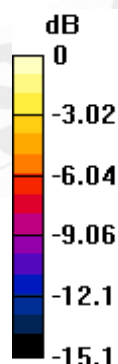
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.28, 9.28, 9.28); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.406 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.74 V/m; Power Drift = 0.134 dB
Peak SAR (extrapolated) = 0.582 W/kg

SAR(1 g) = 0.364 mW/g; SAR(10 g) = 0.225 mW/g
Maximum value of SAR (measured) = 0.391 mW/g



0 dB = 0.391mW/g

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Date/Time: 06/03/2009 03:40:16

BODY_CH9400 repeated with HSUPA mode_(Eighth solution)

DUT: HERO130;

Communication System: WCDMA B2; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: Body 1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

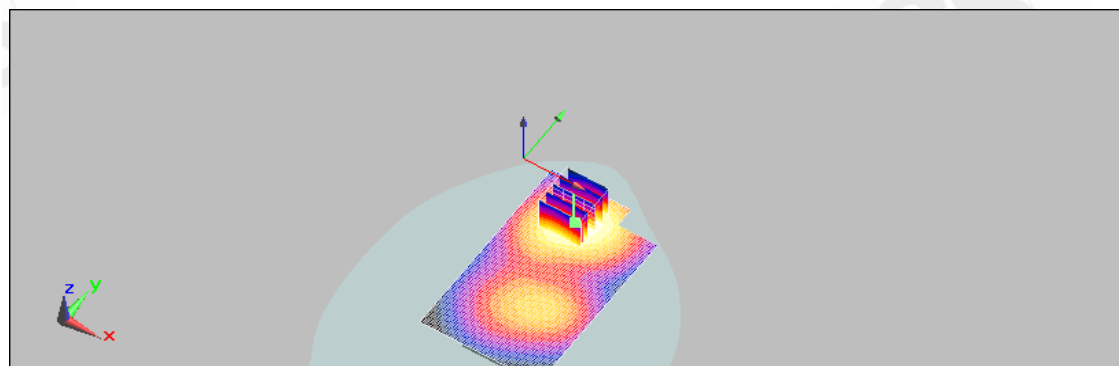
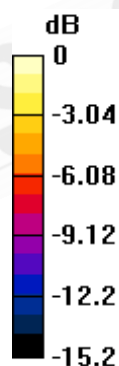
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.28, 9.28, 9.28); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.54 V/m; Power Drift = 0.124 dB
Peak SAR (extrapolated) = 0.556 W/kg

SAR(1 g) = 0.357 mW/g; SAR(10 g) = 0.223 mW/g
Maximum value of SAR (measured) = 0.383 mW/g



0 dB = 0.383mW/g

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Date/Time: 06/02/2009 04:41:10

RE Cheek_CH4183_(Eighth solution)

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: Head 900 Medium parameters used: $f = 837$ MHz; $\sigma = 0.869$ mho/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³
Phantom section: Right Section

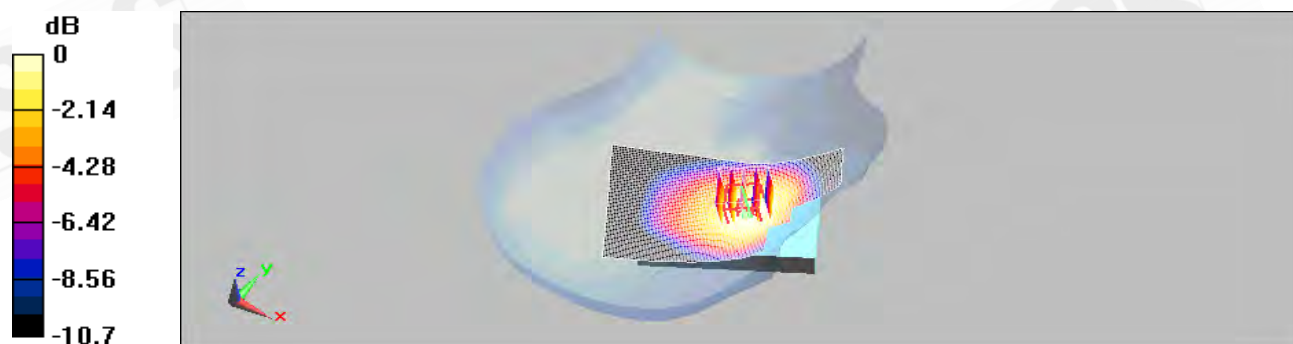
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.93, 10.93, 10.93); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

RE Cheek/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.539 mW/g

RE Cheek/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.3 V/m; Power Drift = 0.113 dB
Peak SAR (extrapolated) = 0.648 W/kg

SAR(1 g) = 0.536 mW/g; SAR(10 g) = 0.408 mW/g
Maximum value of SAR (measured) = 0.561 mW/g



0 dB = 0.561mW/g

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Date/Time: 06/02/2009 12:34:32

BODY_CH4183_(Eighth solution)

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: Body 900 Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.968 \text{ mho/m}$; $\epsilon_r = 56$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

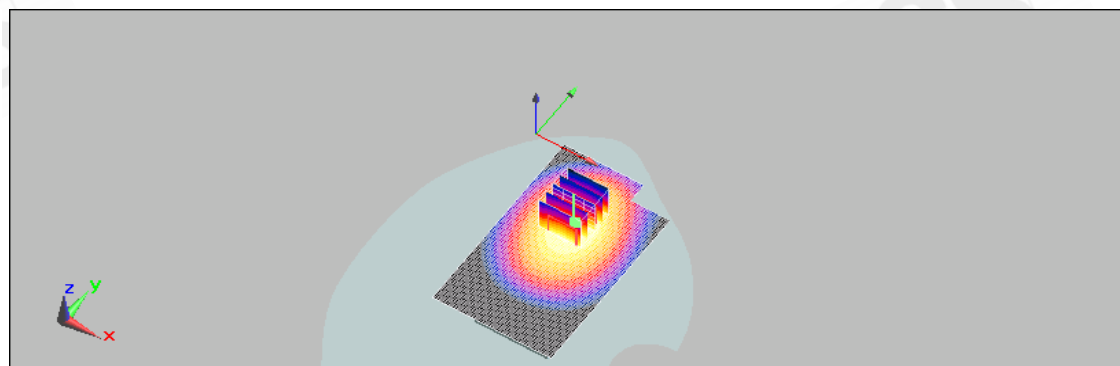
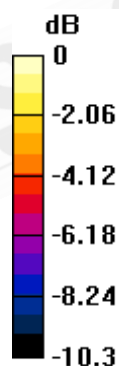
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.87, 10.87, 10.87); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.552 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$,
 $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 7.26 V/m; Power Drift = 0.193 dB
Peak SAR (extrapolated) = 0.742 W/kg

SAR(1 g) = 0.541 mW/g; SAR(10 g) = 0.387 mW/g
Maximum value of SAR (measured) = 0.575 mW/g



0 dB = 0.575mW/g

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Date/Time: 06/02/2009 13:01:20

BODY_CH4183 repeated with HSDPA mode_(Eighth solution)

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: Body 900 Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.965 \text{ mho/m}$; $\epsilon_r = 56$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

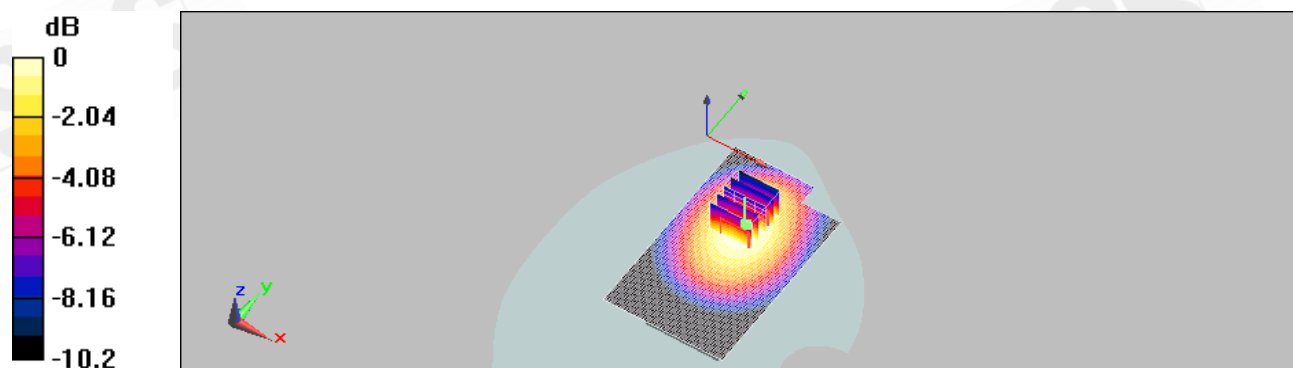
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.87, 10.87, 10.87); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.561 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 7.41 V/m; Power Drift = 0.00862 dB
Peak SAR (extrapolated) = 0.712 W/kg

SAR(1 g) = 0.526 mW/g; SAR(10 g) = 0.377 mW/g
Maximum value of SAR (measured) = 0.553 mW/g



0 dB = 0.553mW/g

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Date/Time: 06/02/2009 13:29:54

BODY_CH4183 repeated with HSUPA mode_(Eighth solution)

DUT: HERO130;

Communication System: WCDMA B5; Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium: Body 900 Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.965 \text{ mho/m}$; $\epsilon_r = 56$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.87, 10.87, 10.87); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

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

Maximum value of SAR (interpolated) = 0.535 mW/g

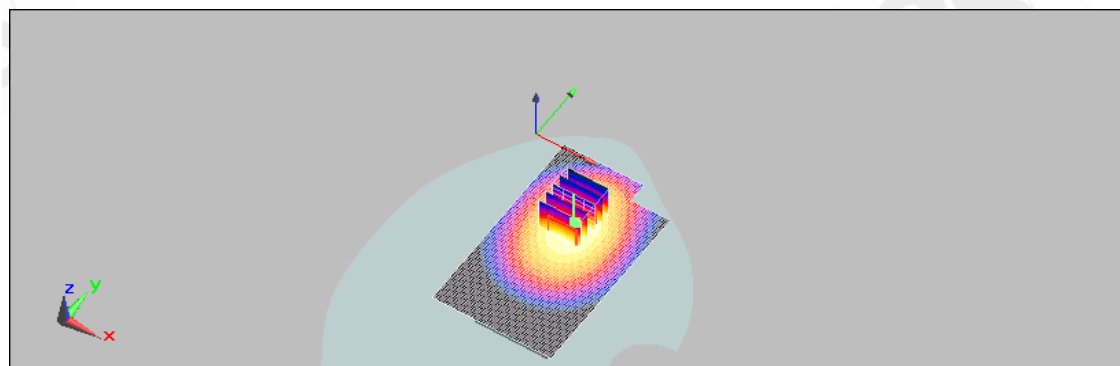
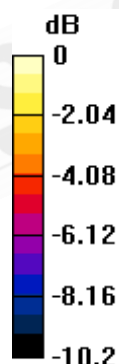
Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.45 V/m; Power Drift = 0.121 dB

Peak SAR (extrapolated) = 0.714 W/kg

SAR(1 g) = 0.519 mW/g; SAR(10 g) = 0.372 mW/g

Maximum value of SAR (measured) = 0.551 mW/g



0 dB = 0.551mW/g

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Date/Time: 06/03/2009 09:22:31

BODY_CH11 repeated with Merry headset_WLAN802.11b_(Eighth solution)

DUT: HERO130;

Communication System: Wireless LAN; Frequency: 2462 MHz; Duty Cycle: 1:1
Medium: Body 2450 Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.93 \text{ mho/m}$; $\epsilon_r = 50$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

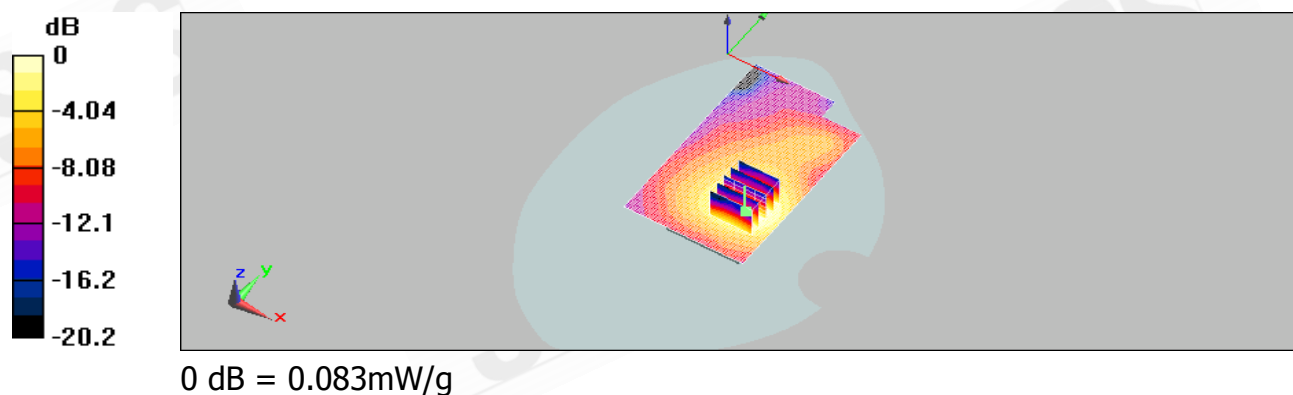
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.18, 8.18, 8.18); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.083 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 4.35 V/m; Power Drift = 0.087 dB
Peak SAR (extrapolated) = 0.133 W/kg

SAR(1 g) = 0.077 mW/g; SAR(10 g) = 0.044 mW/g
Maximum value of SAR (measured) = 0.083 mW/g



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Date/Time: 06/03/2009 09:50:29

BODY_CH1_WLAN802.11g_(Eighth solution)

DUT: HERO130;

Communication System: Wireless LAN; Frequency: 2412 MHz; Duty Cycle: 1:1
Medium: Body 2450 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.88$ mho/m; $\epsilon_r = 50.1$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

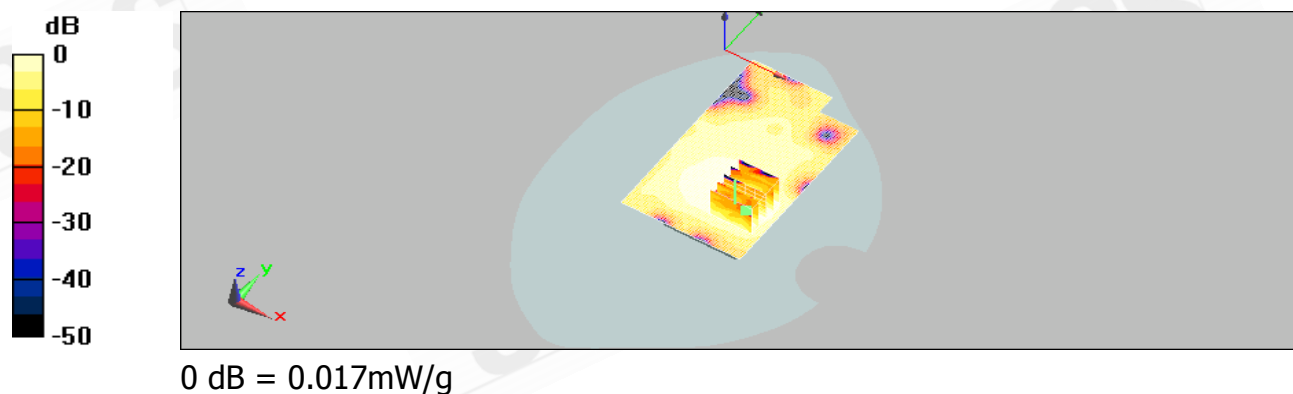
DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.18, 8.18, 8.18); Calibrated: 8/26/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Body/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.017 mW/g

Body/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.19 V/m; Power Drift = -0.191 dB
Peak SAR (extrapolated) = 0.030 W/kg

SAR(1 g) = 0.015 mW/g; SAR(10 g) = 0.00844 mW/g
Maximum value of SAR (measured) = 0.017 mW/g



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5. System Verification

Date/Time: 05/06/2009 00:17:28

DUT: Dipole 835 MHz; Type: D835V2;

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

 Medium: HSL900 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.858 \text{ mho/m}$; $\epsilon_r = 39.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.66, 5.66, 5.66); Calibrated: 6/23/2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

d = 15mm, Pin = 250mW, dist = 3.4mm: Measurement grid: $dx = 15 \text{ mm}$, $dy = 15 \text{ mm}$
 Maximum value of SAR (interpolated) = 2.52 mW/g

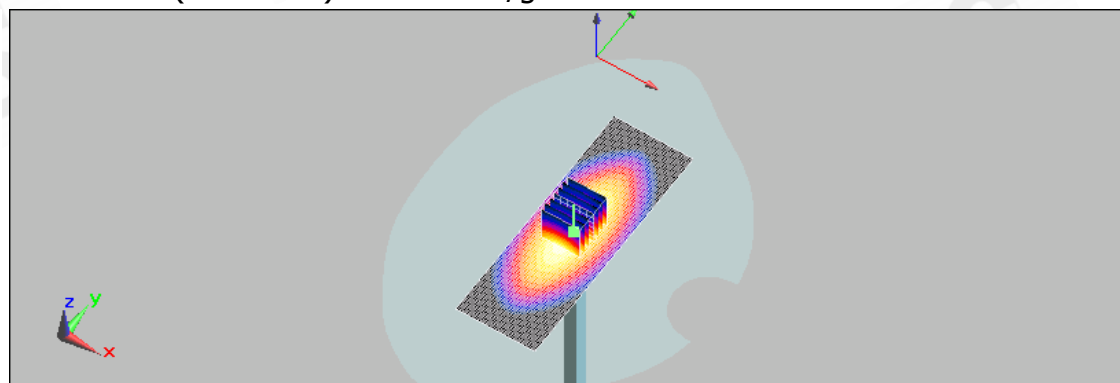
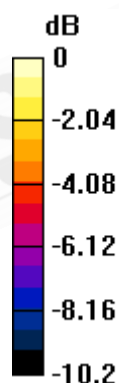
d = 15mm, Pin = 250mW, dist = 3.4mm: Measurement grid: $dx = 5 \text{ mm}$, $dy = 5 \text{ mm}$,
 $dz = 5 \text{ mm}$

Reference Value = 55.5 V/m; Power Drift = 0.00535 dB

Peak SAR (extrapolated) = 3.24 W/kg

SAR(1 g) = 2.22 mW/g; SAR(10 g) = 1.47 mW/g

Maximum value of SAR (measured) = 2.52 mW/g



0 dB = 2.52mW/g

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Date/Time: 05/09/2009 14:06:05

DUT: Dipole 835 MHz; Type: D835V2;

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

Medium: BODY900 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.968 \text{ mho/m}$; $\epsilon_r = 56$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

d=15mm, Pin=250mW, dist=3.4mm: Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 2.72 mW/g

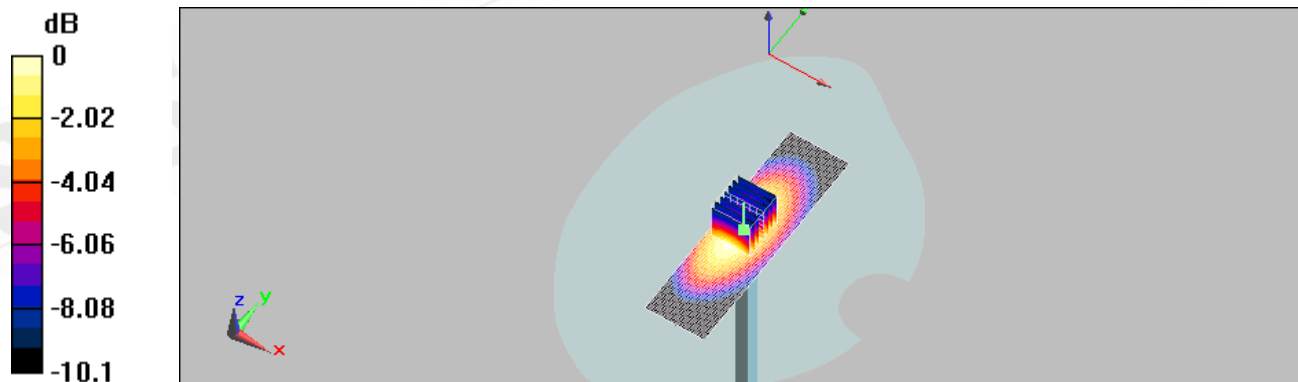
d=15mm, Pin=250mW, dist=3.4mm: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 54.3 V/m; Power Drift = 0.00831 dB

Peak SAR (extrapolated) = 3.5 W/kg

SAR(1 g) = 2.42 mW/g; SAR(10 g) = 1.6 mW/g

Maximum value of SAR (measured) = 2.74 mW/g



0 dB = 2.74mW/g

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Date/Time: 05/06/2009 12:45:55

DUT: Dipole 1900 MHz; Type: D1900V2;

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

Medium: HSL1900 Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.46 \text{ mho/m}$; $\epsilon_r = 38.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.97, 4.97, 4.97); Calibrated: 6/23/2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

d=15mm, Pin=250mW, dist=3.4mm: Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 12.9 mW/g

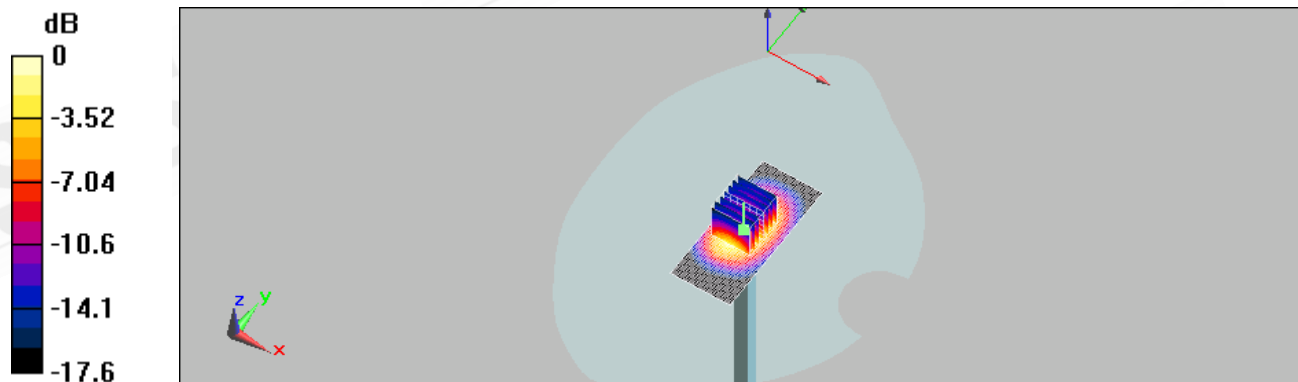
d=15mm, Pin=250mW, dist=3.4mm: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 94.3 V/m; Power Drift = -0.00968 dB

Peak SAR (extrapolated) = 18.3 W/kg

SAR(1 g) = 9.95 mW/g; SAR(10 g) = 5.13 mW/g

Maximum value of SAR (measured) = 12.1 mW/g



0 dB = 12.1mW/g

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Date/Time: 05/09/2009 05:47:52

DUT: Dipole 1900 MHz; Type: D1900V2;

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

Medium: BODY1900 Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.58 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

d=15mm, Pin=250mW, dist=3.4mm: Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 13.2 mW/g

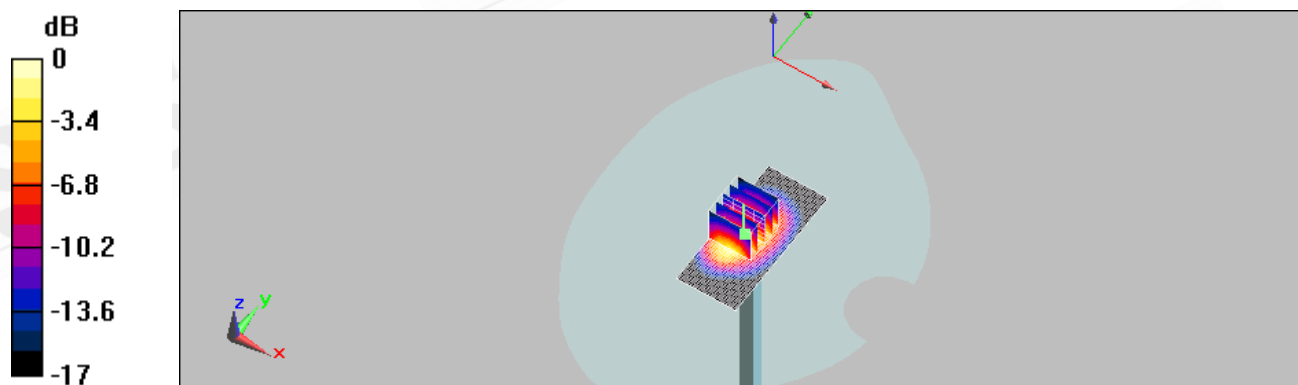
d=15mm, Pin=250mW, dist=3.4mm: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 86.4 V/m; Power Drift = 0.084 dB

Peak SAR (extrapolated) = 17.7 W/kg

SAR(1 g) = 9.92 mW/g; SAR(10 g) = 5.19 mW/g

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



0 dB = 11.9mW/g

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Date/Time: 05/09/2008 00:09:59

DUT: Dipole 2450 MHz; Type: D2450V2;

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

Medium: BODY2450 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3172; ConvF(3.92, 3.92, 3.92); Calibrated: 6/23/2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.4 Build 125

d=15mm, Pin=250mW, dist=3.4mm: Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 18.5 mW/g

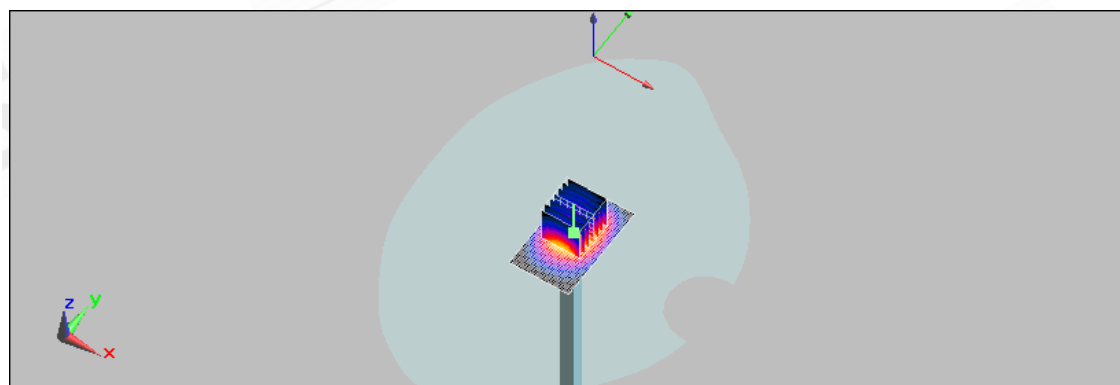
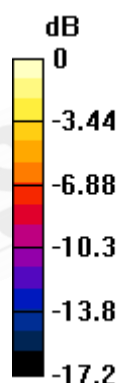
d=15mm, Pin=250mW, dist=3.4mm: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 92 V/m; Power Drift = -0.098 dB

Peak SAR (extrapolated) = 26.6 W/kg

SAR(1 g) = 13.1 mW/g; SAR(10 g) = 6.14 mW/g

Maximum value of SAR (measured) = 16.3 mW/g



0 dB = 16.3mW/g

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Date/Time: 05/30/2009 01:09:36

DUT: Dipole 835 MHz; Type: D835V2;

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

Medium: HSL900 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.857 \text{ mho/m}$; $\epsilon_r = 39.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.93, 10.93, 10.93); Calibrated: 8/26/2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

d = 15mm, Pin = 250mW, dist = 3.4mm: Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 2.58 mW/g

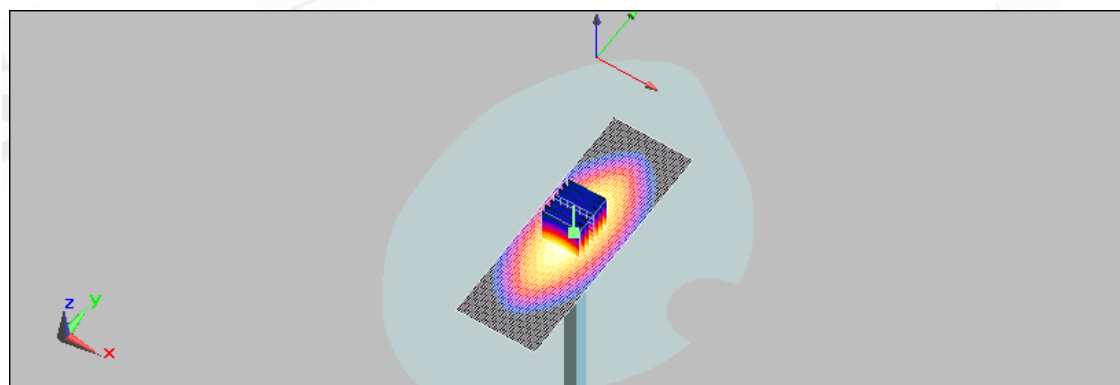
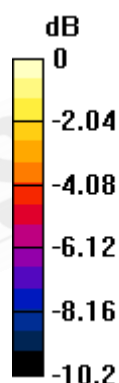
d = 15mm, Pin = 250mW, dist = 3.4mm: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 56.3 V/m; Power Drift = 0.000365 dB

Peak SAR (extrapolated) = 3.33 W/kg

SAR(1 g) = 2.28 mW/g; SAR(10 g) = 1.51 mW/g

Maximum value of SAR (measured) = 2.58 mW/g



0 dB = 2.58mW/g

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Date/Time: 05/30/2009 05:36:47

DUT: Dipole 835 MHz; Type: D835V2;

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

Medium: BODY900 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.969 \text{ mho/m}$; $\epsilon_r = 56$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.87, 10.87, 10.87); Calibrated: 8/26/2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

d = 15mm, Pin = 250mW, dist = 3.4mm: Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 2.72 mW/g

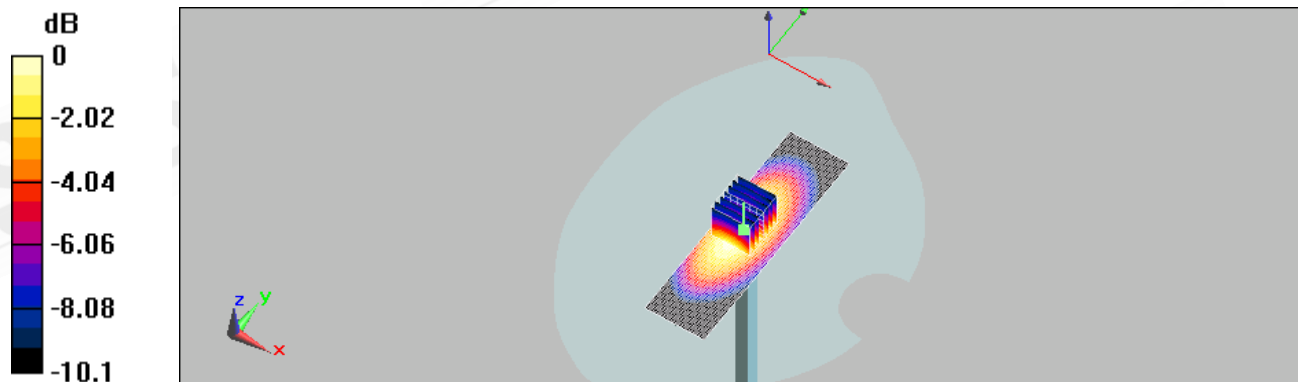
d = 15mm, Pin = 250mW, dist = 3.4mm: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 54.3 V/m; Power Drift = -0.00491 dB

Peak SAR (extrapolated) = 3.51 W/kg

SAR(1 g) = 2.45 mW/g; SAR(10 g) = 1.62 mW/g

Maximum value of SAR (measured) = 2.74 mW/g



0 dB = 2.74mW/g

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Date/Time: 05/30/2009 9:13:33

DUT: Dipole 1900 MHz; Type: D1900V2;

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

Medium: HSL1900 Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.47 \text{ mho/m}$; $\epsilon_r = 38.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.46, 9.46, 9.46); Calibrated: 8/26/2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

d=15mm, Pin=250mW, dist=3.4mm: Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 12.8 mW/g

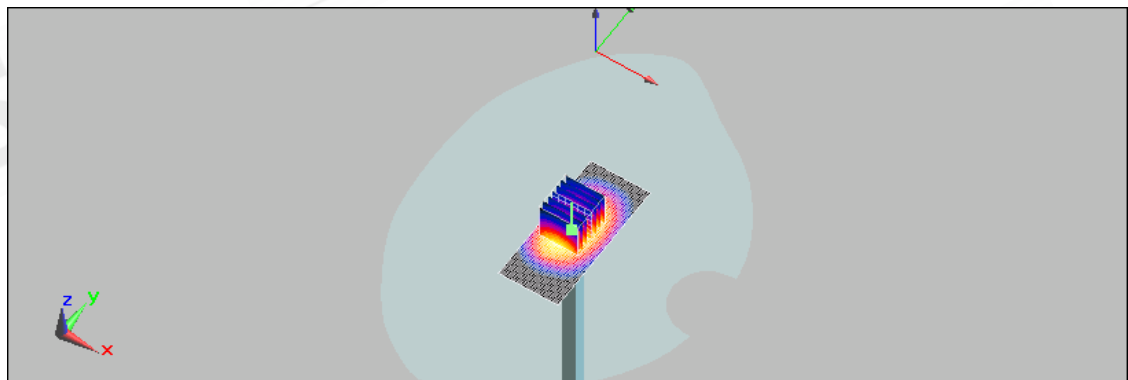
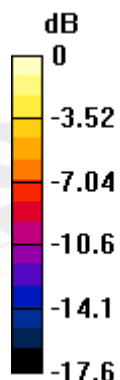
d=15mm, Pin=250mW, dist=3.4mm: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 93.9 V/m; Power Drift = 0.011 dB

Peak SAR (extrapolated) = 18.4 W/kg

SAR(1 g) = 9.99 mW/g; SAR(10 g) = 5.11 mW/g

Maximum value of SAR (measured) = 12.1 mW/g



0 dB = 12.1mW/g

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Date/Time: 05/30/2009 16:54:27

DUT: Dipole 1900 MHz; Type: D1900V2;

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

Medium: BODY1900 Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.57 \text{ mho/m}$; $\epsilon_r = 53.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.28, 9.28, 9.28); Calibrated: 8/26/2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

d=15mm, Pin=250mW, dist=3.4mm: Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 13.3 mW/g

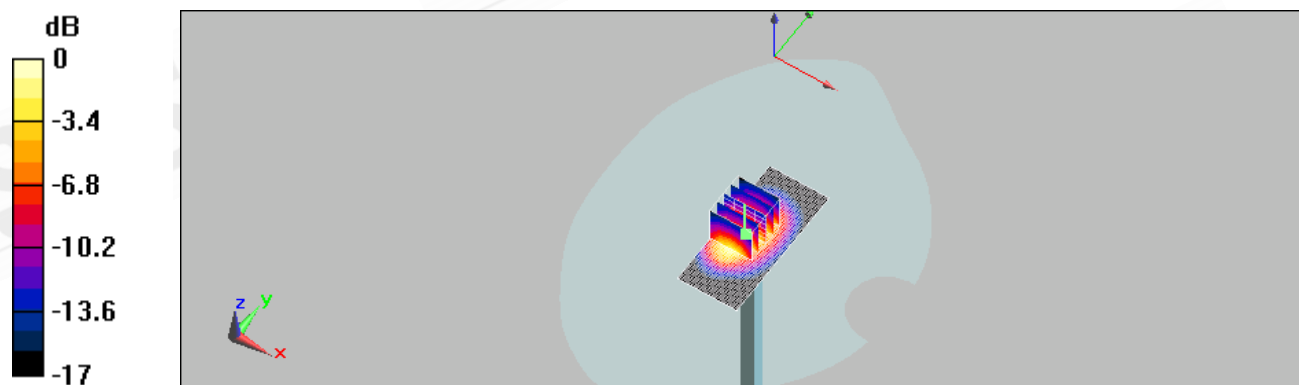
d=15mm, Pin=250mW, dist=3.4mm: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 86.7 V/m; Power Drift = 0.038 dB

Peak SAR (extrapolated) = 17.8 W/kg

SAR(1 g) = 10.1 mW/g; SAR(10 g) = 5.22 mW/g

Maximum value of SAR (measured) = 12 mW/g



0 dB = 12mW/g

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Date/Time: 06/01/2008 14:38:23

DUT: Dipole 2450 MHz; Type: D2450V2;

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

Medium: HSL900 Medium parameters used: $f = 2450 \text{ MHz}$; $\sigma = 1.99 \text{ mho/m}$; $\epsilon_r = 52.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.18, 8.18, 8.18); Calibrated: 8/26/2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.4 Build 125

d=15mm, Pin=250mW, dist=3.4mm: Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 18 mW/g

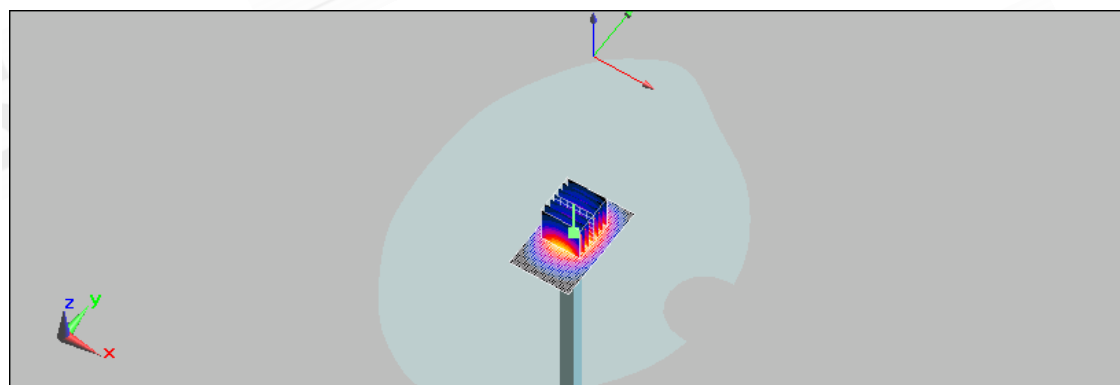
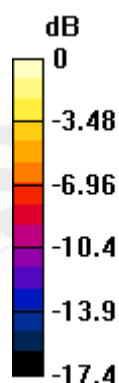
d=15mm, Pin=250mW, dist=3.4mm: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 90.8 V/m; Power Drift = 0.019 dB

Peak SAR (extrapolated) = 26.3 W/kg

SAR(1 g) = 12.9 mW/g; SAR(10 g) = 6.05 mW/g

Maximum value of SAR (measured) = 16 mW/g



0 dB = 16mW/g

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Date/Time: 06/02/2009 00:34:57

DUT: Dipole 835 MHz; Type: D835V2;

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

Medium: HSL900 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.859 \text{ mho/m}$; $\epsilon_r = 39.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.93, 10.93, 10.93); Calibrated: 8/26/2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

d=15mm, Pin=250mW, dist=3.4mm: Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 2.57 mW/g

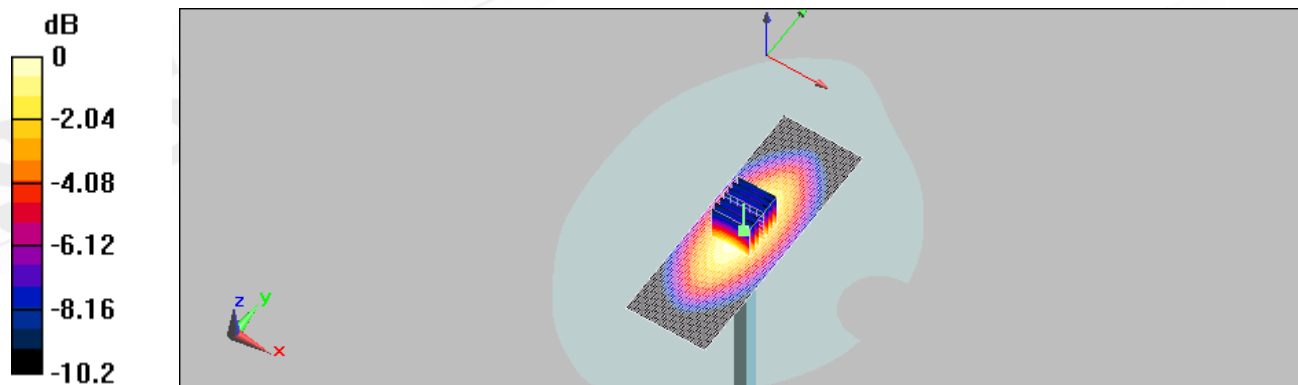
d=15mm, Pin=250mW, dist=3.4mm: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 56.2 V/m; Power Drift = 0.011 dB

Peak SAR (extrapolated) = 3.33 W/kg

SAR(1 g) = 2.26 mW/g; SAR(10 g) = 1.5 mW/g

Maximum value of SAR (measured) = 2.57 mW/g



0 dB = 2.57mW/g

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Date/Time: 06/02/2009 05:38:14

DUT: Dipole 835 MHz; Type: D835V2;

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

Medium: BODY900 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.968 \text{ mho/m}$; $\epsilon_r = 55.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.87, 10.87, 10.87); Calibrated: 8/26/2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

d=15mm, Pin=250mW, dist=3.4mm: Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 2.72 mW/g

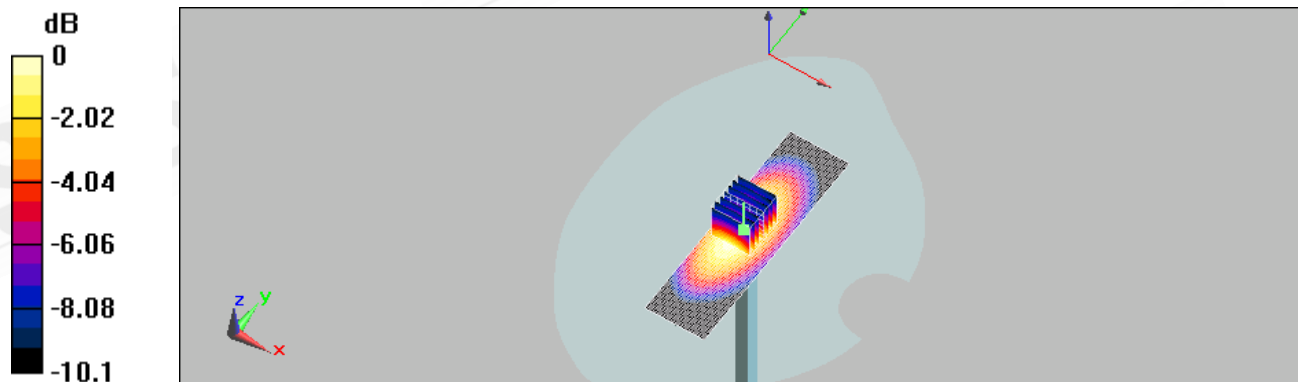
d=15mm, Pin=250mW, dist=3.4mm: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 54.3 V/m; Power Drift = 0.00673 dB

Peak SAR (extrapolated) = 3.5 W/kg

SAR(1 g) = 2.43 mW/g; SAR(10 g) = 1.63 mW/g

Maximum value of SAR (measured) = 2.74 mW/g



0 dB = 2.74mW/g

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Date/Time: 06/02/2009 14:26:35

DUT: Dipole 1900 MHz; Type: D1900V2;

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

Medium: HSL1900 Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.45 \text{ mho/m}$; $\epsilon_r = 38.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.46, 9.46, 9.46); Calibrated: 8/26/2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

d=15mm, Pin=250mW, dist=3.4mm: Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 13.2 mW/g

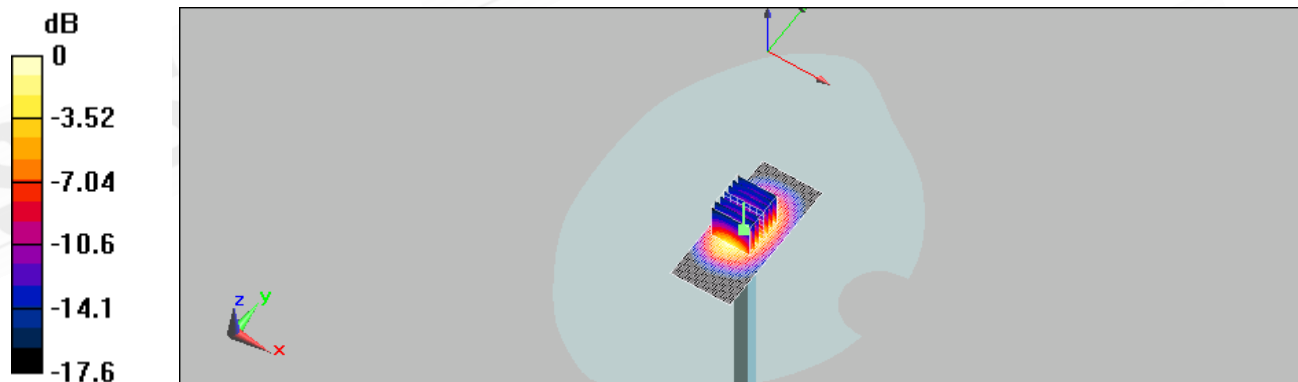
d=15mm, Pin=250mW, dist=3.4mm: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 95.3 V/m; Power Drift = -0.015 dB

Peak SAR (extrapolated) = 18.7 W/kg

SAR(1 g) = 10.2 mW/g; SAR(10 g) = 5.25 mW/g

Maximum value of SAR (measured) = 12.4 mW/g



0 dB = 12.4mW/g

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Date/Time: 06/02/2009 19:46:24

DUT: Dipole 1900 MHz; Type: D1900V2;

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

Medium: BODY1900 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.59$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.28, 9.28, 9.28); Calibrated: 8/26/2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

d=15mm, Pin=250mW, dist=3.4mm: Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 13.2 mW/g

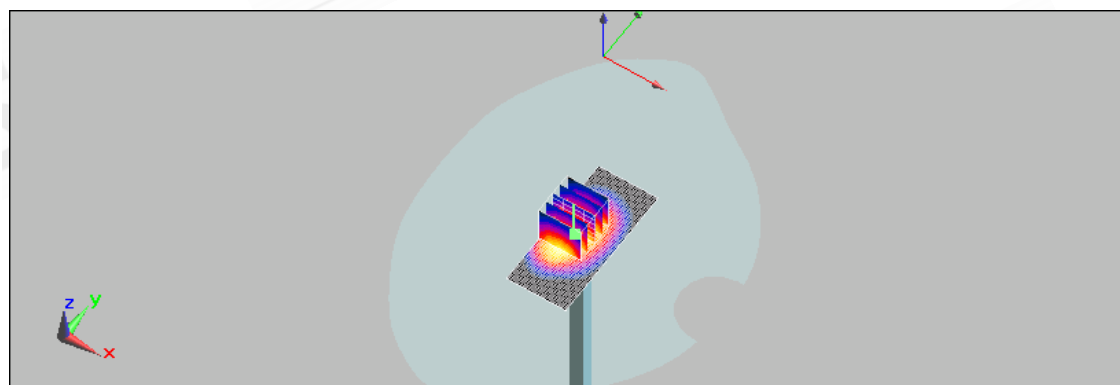
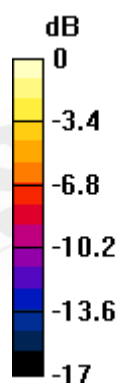
d=15mm, Pin=250mW, dist=3.4mm: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 86.6 V/m; Power Drift = 0.00817 dB

Peak SAR (extrapolated) = 17.6 W/kg

SAR(1 g) = 10.3 mW/g; SAR(10 g) = 5.18 mW/g

Maximum value of SAR (measured) = 11.8 mW/g



0 dB = 11.8mW/g

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Date/Time: 06/03/2008 04:38:03

DUT: Dipole 2450 MHz; Type: D2450V2;

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

Medium: BODY2450 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.97$ mho/m; $\epsilon_r = 52.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.18, 8.18, 8.18); Calibrated: 8/26/2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn871; Calibrated: 9/24/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.4 Build 125

d=15mm, Pin=250mW, dist=3.4mm: Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 17.9 mW/g

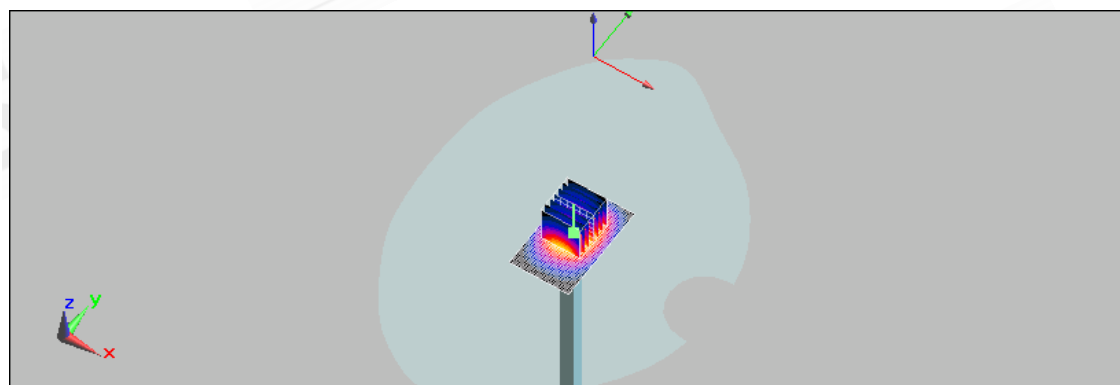
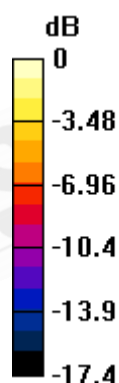
d=15mm, Pin=250mW, dist=3.4mm: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 90.6 V/m; Power Drift = -0.00586 dB

Peak SAR (extrapolated) = 26.3 W/kg

SAR(1 g) = 12.8 mW/g; SAR(10 g) = 6.03 mW/g

Maximum value of SAR (measured) = 16 mW/g



0 dB = 16mW/g

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6. DAE & Probe Calibration certificate

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S Servizio svizzero di taratura
S Swiss Calibration Service

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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 **Foxconn (Auden)**

Certificate No: **DAE4-871_Sep08**

CALIBRATION CERTIFICATE																							
Object	DAE4 - SD 000 D04 BJ - SN: 871																						
Calibration procedure(s)	QA CAL-06.v12 Calibration procedure for the data acquisition electronics (DAE)																						
Calibration date:	September 24, 2008																						
Condition of the calibrated item	In Tolerance																						
<p>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.</p> <p>All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.</p> <p>Calibration Equipment used (M&TE critical for calibration)</p> <table border="1"> <thead> <tr> <th>Primary Standards</th> <th>ID #</th> <th>Cal Date (Certificate No.)</th> <th>Scheduled Calibration</th> </tr> </thead> <tbody> <tr> <td>Fluke Process Calibrator Type 702</td> <td>SN: 6295803</td> <td>04-Oct-07 (No: 6467)</td> <td>Oct-08</td> </tr> <tr> <td>Keithley Multimeter Type 2001</td> <td>SN: 0810278</td> <td>03-Oct-07 (No: 6465)</td> <td>Oct-08</td> </tr> <tr> <th>Secondary Standards</th> <th>ID #</th> <th>Check Date (in house)</th> <th>Scheduled Check</th> </tr> <tr> <td>Calibrator Box V1.1</td> <td>SE UMS 006 AB 1004</td> <td>06-Jun-08 (in house check)</td> <td>In house check: Jun-09</td> </tr> </tbody> </table>				Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration	Fluke Process Calibrator Type 702	SN: 6295803	04-Oct-07 (No: 6467)	Oct-08	Keithley Multimeter Type 2001	SN: 0810278	03-Oct-07 (No: 6465)	Oct-08	Secondary Standards	ID #	Check Date (in house)	Scheduled Check	Calibrator Box V1.1	SE UMS 006 AB 1004	06-Jun-08 (in house check)	In house check: Jun-09
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Calibrator Box V1.1	SE UMS 006 AB 1004	06-Jun-08 (in house check)	In house check: Jun-09																				
Calibrated by:	Name Dominique Steffen	Function Technician	Signature <i>D. Steffen</i>																				
Approved by:	Name Fin Bomholt	Function R&D Director	Signature <i>F. Bomholt</i>																				
			Issued: October 23, 2008																				
This calibration certificate shall not be reproduced except in full without written approval of the laboratory.																							

Certificate No: DAE4-871_Sep08

Page 1 of 5

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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

Client **SGS (Auden)**

Certificate No: **ES3-3172_Jun08**

CALIBRATION CERTIFICATE

Object **ES3DV3 - SN:3172**

Calibration procedure(s) **QA CAL-01.v6 and QA CAL-23.v3
Calibration procedure for dosimetric E-field probes**

Calibration date: **June 23, 2008**

Condition of the calibrated item **In Tolerance**

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 E4415B	GB41293574	1-Apr-08 (No. 217-00788)	Apr-09
Power sensor E4412A	MY41495277	1-Apr-08 (No. 217-00788)	Apr-09
Power sensor E4412A	MY41496067	1-Apr-08 (No. 217-00788)	Apr-09
Reference 3 dB Attenuator	SN: S5054 (3c)	8-Aug-07 (No. 217-00719)	Aug-08
Reference 20 dB Attenuator	SN: S5086 (20b)	31-Mar-08 (No. 217-00787)	Apr-09
Reference 30 dB Attenuator	SN: S5129 (30b)	8-Aug-07 (No. 217-00720)	Aug-08
Reference Probe ES3DV2	SN: 3013	2-Jan-08 (No. ES3-3013_Jan08)	Jan-09
DAE4	SN: 660	3-Sep-07 (No. DAE4-660_Sep07)	Sep-08

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-08 (in house check Oct-07)	In house check: Oct-09
Network Analyzer HP 8753E	US37390585	18-Oct-01 (in house check Oct-07)	In house check: Oct-08

Calibrated by:	Name Kajsa Pokovic	Function Technical Manager	Signature
Approved by:	Name Niels Kuster	Function Quality Manager	Signature

Issued: June 24, 2008

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Certificate No: ES3-3172_Jun08

Page 1 of 9

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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
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., $\theta = 0$ 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 $\theta = 0$ ($f \leq 900$ 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 effect 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 (no uncertainty required), DCP does not depend on frequency nor media.
- 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:3172

June 23, 2008

Probe ES3DV3

SN:3172

Manufactured: January 23, 2008
Calibrated: June 23, 2008

Calibrated for DASY Systems

(Note: non-compatible with DASY2 system!)

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ES3DV3 SN:3172

June 23, 2008

DASY - Parameters of Probe: ES3DV3 SN:3172

Sensitivity in Free Space^A

Norm	Value	Unit	Diode Compression ^B	Value
NormX	1.38 ± 10.1%	μV/(V/m) ²	DCP X	93 mV
NormY	1.15 ± 10.1%	μV/(V/m) ²	DCP Y	93 mV
NormZ	0.94 ± 10.1%	μV/(V/m) ²	DCP Z	89 mV

Diode Compression^B

Sensitivity in Tissue Simulating Liquid (Conversion Factors)

Please see Page 8.

Boundary Effect

TSL 900 MHz Typical SAR gradient: 5 % per mm

Sensor Center to Phantom Surface Distance	3.0 mm	4.0 mm
SAR _{be} [%] Without Correction Algorithm	11.8	6.1
SAR _{be} [%] With Correction Algorithm	0.6	0.2

TSL 1810 MHz Typical SAR gradient: 10 % per mm

Sensor Center to Phantom Surface Distance	3.0 mm	4.0 mm
SAR _{be} [%] Without Correction Algorithm	10.2	6.5
SAR _{be} [%] With Correction Algorithm	0.4	0.4

Sensor Offset

Probe Tip to Sensor Center 2.0 mm

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%.

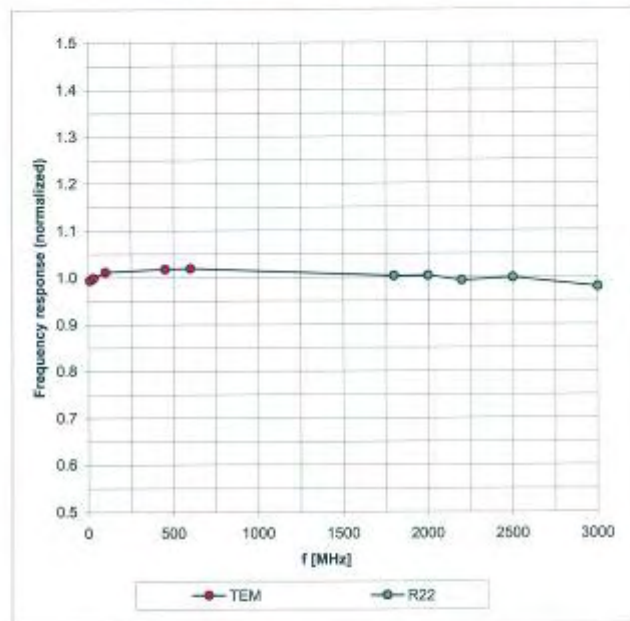
^A The uncertainties of NormX,Y,Z do not affect the E²-field uncertainty inside TSL (see Page 8)

^B Numerical linearization parameter: uncertainty not required.

ES3DV3 SN:3172

June 23, 2008

Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)



Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ (k=2)

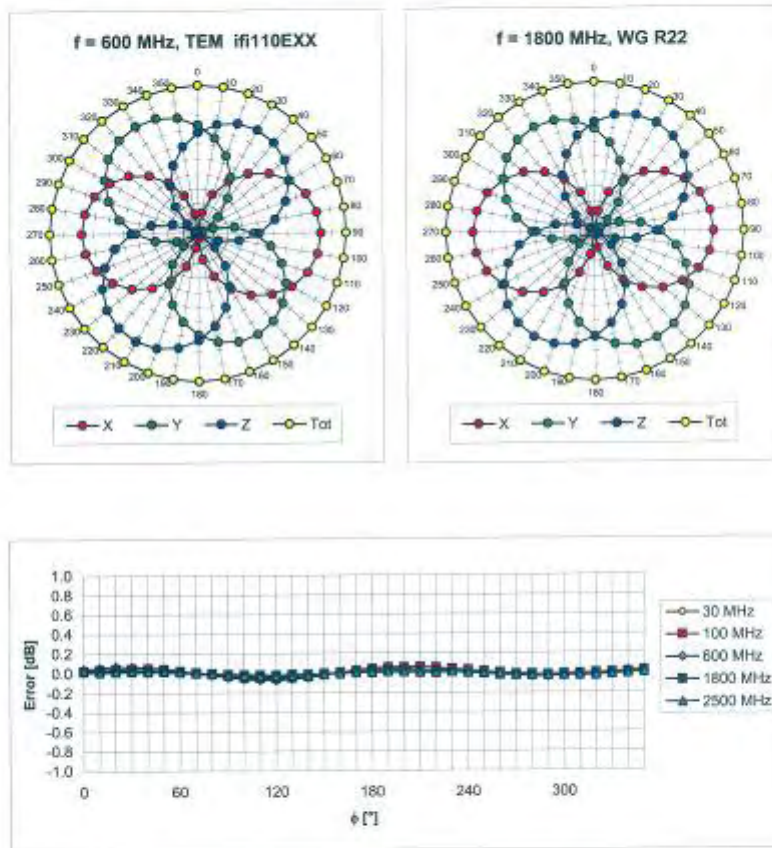
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ES3DV3 SN:3172

June 23, 2008

Receiving Pattern (ϕ), $\vartheta = 0^\circ$



Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ (k=2)

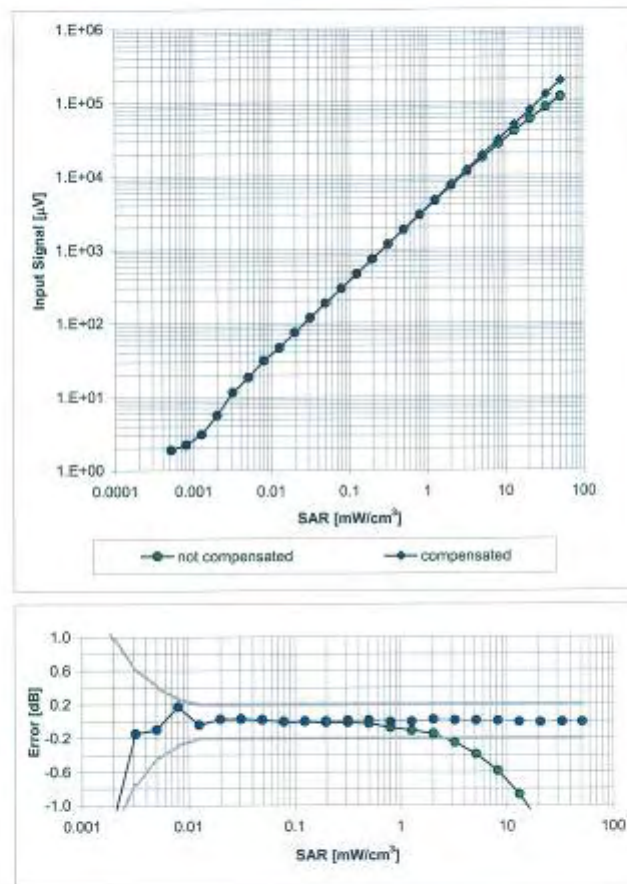
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ES3DV3 SN:3172

June 23, 2008

Dynamic Range $f(SAR_{head})$ (Waveguide R22, $f = 1800$ MHz)



Uncertainty of Linearity Assessment: $\pm 0.6\%$ ($k=2$)

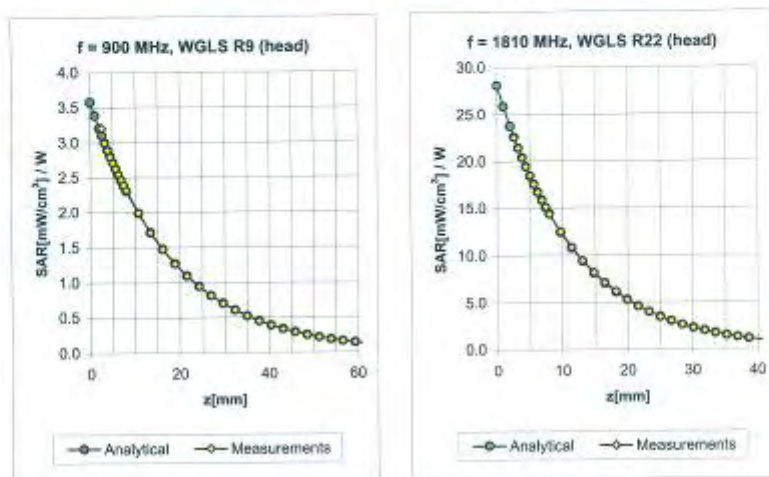
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ES3DV3 SN:3172

June 23, 2008

Conversion Factor Assessment



f [MHz]	Validity [MHz] ^c	TSL	Permittivity	Conductivity	Alpha	Depth	ConvF Uncertainty
900	± 50 / ± 100	Head	41.5 ± 5%	0.97 ± 5%	0.23	2.36	5.66 ± 11.0% (k=2)
1810	± 50 / ± 100	Head	40.0 ± 5%	1.40 ± 5%	0.32	2.07	4.97 ± 11.0% (k=2)
1950	± 50 / ± 100	Head	40.0 ± 5%	1.40 ± 5%	0.65	1.40	4.80 ± 11.0% (k=2)
2450	± 50 / ± 100	Head	39.2 ± 5%	1.80 ± 5%	0.72	1.34	4.38 ± 11.0% (k=2)
900	± 50 / ± 100	Body	55.0 ± 5%	1.05 ± 5%	0.35	1.83	5.61 ± 11.0% (k=2)
1810	± 50 / ± 100	Body	53.3 ± 5%	1.52 ± 5%	0.55	1.50	4.73 ± 11.0% (k=2)
1950	± 50 / ± 100	Body	53.3 ± 5%	1.52 ± 5%	0.80	1.35	4.57 ± 11.0% (k=2)
2450	± 50 / ± 100	Body	52.7 ± 5%	1.95 ± 5%	0.75	1.25	3.92 ± 11.0% (k=2)

^c The validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2). The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

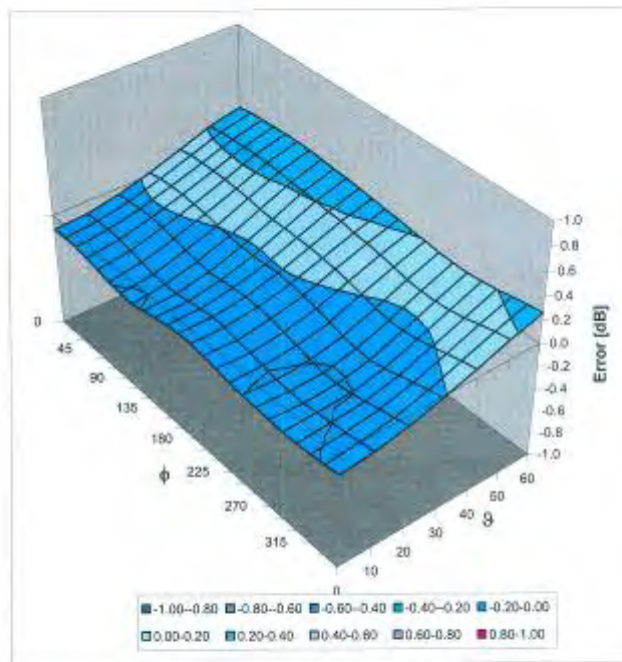
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ES3DV3 SN:3172

June 23, 2008

Deviation from Isotropy in HSL Error (ϕ , θ), $f = 900$ MHz



Uncertainty of Spherical Isotropy Assessment: $\pm 2.6\%$ (k=2)

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**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland



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S Servizio svizzero di taratura
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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

Client **SGS (Auden)**

Certificate No: **EX3-3526_Aug08**

CALIBRATION CERTIFICATE

Object: **EX3DV3 - SN:3526**

Calibration procedure(s): **QA CAL-01.v6, QA CAL-14.v3 and QA CAL-23.v3
Calibration procedure for dosimetric E-field probes**

Calibration date: **August 26, 2008**

Condition of the calibrated item: **In Tolerance**

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	1-Apr-08 (No. 217-00788)	Apr-09
Power sensor E4412A	MY41495277	1-Apr-08 (No. 217-00788)	Apr-09
Power sensor E4412A	MY41498087	1-Apr-08 (No. 217-00788)	Apr-09
Reference 3 dB Attenuator	SN: S5054 (3c)	1-Jul-08 (No. 217-00865)	Jul-09
Reference 20 dB Attenuator	SN: S5086 (20b)	31-Mar-08 (No. 217-00787)	Apr-09
Reference 30 dB Attenuator	SN: S5129 (30b)	1-Jul-08 (No. 217-00866)	Jul-09
Reference Probe ES3DV2	SN: 3013	2-Jan-08 (No. ES3-3013_Jan08)	Jan-09
DAE4	SN: 660	3-Sep-07 (No. DAE4-660_Sep07)	Sep-08

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (in house check Oct-07)	In house check: Oct-09
Network Analyzer HP 8753E	US37390585	18-Oct-01 (in house check Oct-07)	In house check: Oct-08

Calibrated by:	Name	Function	Signature
	Katja Pokovic	Technical Manager	
Approved by:	Niels Kuster	Quality Manager	

Issued: August 26, 2008

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Certificate No: EX3-3526_Aug08

Page 1 of 9

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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
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:

- a) 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
- b) 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 effect 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 (no uncertainty required). DCP does not depend on frequency nor media.
- 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.

EX3DV3 SN:3526

August 26, 2008

Probe EX3DV3

SN:3526

Manufactured:	March 19, 2004
Last calibrated:	August 29, 2007
Recalibrated:	August 26, 2008

Calibrated for DASY Systems

(Note: non-compatible with DASY2 system!)

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EX3DV3 SN:3526

August 26, 2008

DASY - Parameters of Probe: EX3DV3 SN:3526

Sensitivity in Free Space ^A			Diode Compression ^B	
NormX	0.99 ± 10.1%	$\mu V/(V/m)^2$	DCP X	93 mV
NormY	0.81 ± 10.1%	$\mu V/(V/m)^2$	DCP Y	94 mV
NormZ	0.89 ± 10.1%	$\mu V/(V/m)^2$	DCP Z	94 mV

Sensitivity in Tissue Simulating Liquid (Conversion Factors)

Please see Page 8.

Boundary Effect

TSL	900 MHz	Typical SAR gradient: 5 % per mm		
	Sensor Center to Phantom Surface Distance	2.0 mm	3.0 mm	
	SAR _{be} [%] Without Correction Algorithm	8.9	5.3	
	SAR _{be} [%] With Correction Algorithm	0.8	0.4	
TSL	1810 MHz	Typical SAR gradient: 10 % per mm		
	Sensor Center to Phantom Surface Distance	2.0 mm	3.0 mm	
	SAR _{be} [%] Without Correction Algorithm	6.8	3.6	
	SAR _{be} [%] With Correction Algorithm	0.5	0.2	

Sensor Offset

Probe Tip to Sensor Center **1.0 mm**

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 Page 8).

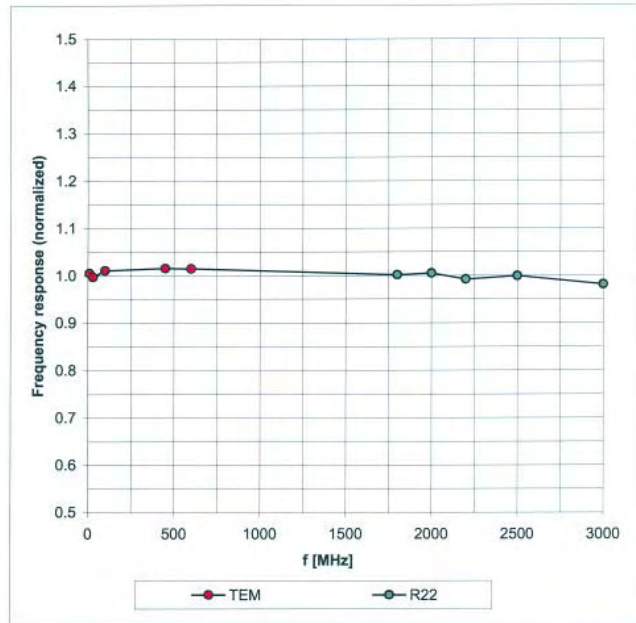
^B Numerical linearization parameter: uncertainty not required.

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August 26, 2008

Frequency Response of E-Field

(TEM-Cell:ifi110 EXX, Waveguide: R22)



Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ ($k=2$)

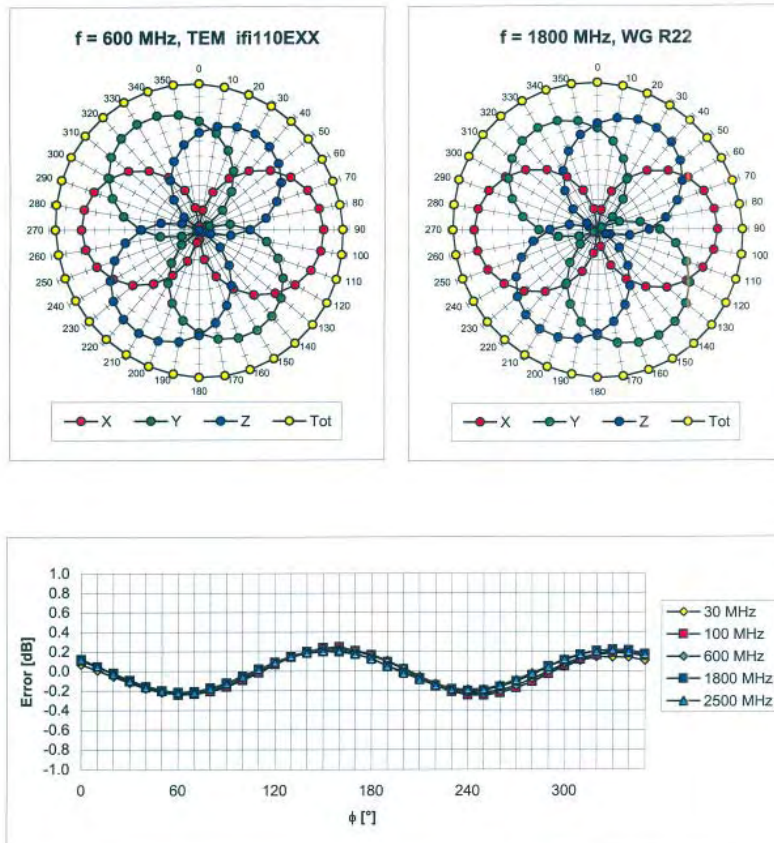
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August 26, 2008

Receiving Pattern (ϕ), $\theta = 0^\circ$

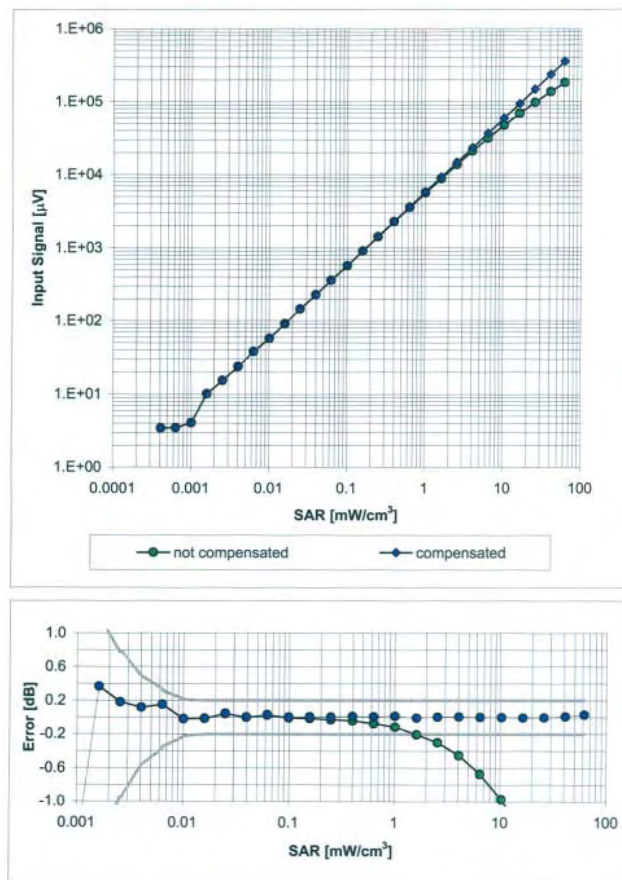


Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)

EX3DV3 SN:3526

August 26, 2008

Dynamic Range f(SAR_{head}) (Waveguide R22, f = 1800 MHz)



Uncertainty of Linearity Assessment: $\pm 0.6\%$ (k=2)

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Conversion Factor Assessment

f [MHz]	Validity [MHz] ^c	TSL	Permittivity	Conductivity	Alpha	Depth	ConvF Uncertainty
900	± 50 / ± 100	Head	41.5 ± 5%	0.97 ± 5%	0.54	0.76	10.93 ± 11.0% (k=2)
1810	± 50 / ± 100	Head	40.0 ± 5%	1.40 ± 5%	0.52	0.68	9.46 ± 11.0% (k=2)
1950	± 50 / ± 100	Head	40.0 ± 5%	1.40 ± 5%	0.58	0.61	9.15 ± 11.0% (k=2)
2450	± 50 / ± 100	Head	39.2 ± 5%	1.80 ± 5%	0.42	0.74	8.49 ± 11.0% (k=2)
2600	± 50 / ± 100	Head	39.0 ± 5%	1.96 ± 5%	0.42	0.75	8.53 ± 11.0% (k=2)
3500	± 50 / ± 100	Head	37.9 ± 5%	2.91 ± 5%	0.30	1.20	8.15 ± 13.1% (k=2)
5200	± 50 / ± 100	Head	36.0 ± 5%	4.66 ± 5%	0.40	1.65	5.68 ± 13.1% (k=2)
5500	± 50 / ± 100	Head	35.6 ± 5%	4.96 ± 5%	0.40	1.65	5.01 ± 13.1% (k=2)
5800	± 50 / ± 100	Head	35.3 ± 5%	5.27 ± 5%	0.40	1.65	4.90 ± 13.1% (k=2)
900	± 50 / ± 100	Body	55.0 ± 5%	1.05 ± 5%	0.66	0.68	10.87 ± 11.0% (k=2)
1810	± 50 / ± 100	Body	53.3 ± 5%	1.52 ± 5%	0.50	0.74	9.28 ± 11.0% (k=2)
1950	± 50 / ± 100	Body	53.3 ± 5%	1.52 ± 5%	0.45	0.78	9.17 ± 11.0% (k=2)
2450	± 50 / ± 100	Body	52.7 ± 5%	1.95 ± 5%	0.44	0.80	8.18 ± 11.0% (k=2)
2600	± 50 / ± 100	Body	52.5 ± 5%	2.16 ± 5%	0.47	0.76	8.14 ± 11.0% (k=2)
3500	± 50 / ± 100	Body	51.3 ± 5%	3.31 ± 5%	0.30	1.20	7.36 ± 13.1% (k=2)
5200	± 50 / ± 100	Body	49.0 ± 5%	5.30 ± 5%	0.40	1.70	4.89 ± 13.1% (k=2)
5500	± 50 / ± 100	Body	48.6 ± 5%	5.65 ± 5%	0.40	1.70	4.39 ± 13.1% (k=2)
5800	± 50 / ± 100	Body	48.2 ± 5%	6.00 ± 5%	0.40	1.70	4.44 ± 13.1% (k=2)

^c The validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2). The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

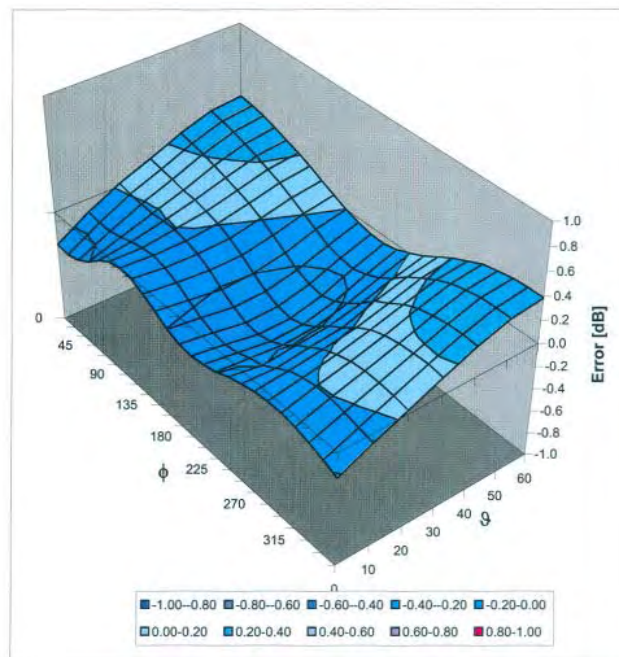
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EX3DV3 SN:3526

August 26, 2008

Deviation from Isotropy in HSL Error (ϕ , θ), $f = 900$ MHz



Uncertainty of Spherical Isotropy Assessment: $\pm 2.6\%$ ($k=2$)

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7. Uncertainty Analysis

DASY5 Uncertainty Budget
According to IEEE 1528 [1]

Error Description	Uncertainty value	Prob. Dist.	Div.	(c ₁) 1g	(c ₁) 10g	Std. Unc. (1g)	Std. Unc. (10g)	(v _i) v _{eff}
Measurement System								
Probe Calibration	±5.9%	N	1	1	1	±5.9%	±5.9%	∞
Axial Isotropy	±4.7%	R	√3	0.7	0.7	±1.9%	±1.9%	∞
Hemispherical Isotropy	±9.6%	R	√3	0.7	0.7	±3.9%	±3.9%	∞
Boundary Effects	±1.0%	R	√3	1	1	±0.6%	±0.6%	∞
Linearity	±4.7%	R	√3	1	1	±2.7%	±2.7%	∞
System Detection Limits	±1.0%	R	√3	1	1	±0.6%	±0.6%	∞
Readout Electronics	±0.3%	N	1	1	1	±0.3%	±0.3%	∞
Response Time	±0.8%	R	√3	1	1	±0.5%	±0.5%	∞
Integration Time	±2.6%	R	√3	1	1	±1.5%	±1.5%	∞
RF Ambient Noise	±3.0%	R	√3	1	1	±1.7%	±1.7%	∞
RF Ambient Reflections	±3.0%	R	√3	1	1	±1.7%	±1.7%	∞
Probe Positioner	±0.4%	R	√3	1	1	±0.2%	±0.2%	∞
Probe Positioning	±2.9%	R	√3	1	1	±1.7%	±1.7%	∞
Max. SAR Eval.	±1.0%	R	√3	1	1	±0.6%	±0.6%	∞
Test Sample Related								
Device Positioning	±2.9%	N	1	1	1	±2.9%	±2.9%	145
Device Holder	±3.6%	N	1	1	1	±3.6%	±3.6%	5
Power Drift	±5.0%	R	√3	1	1	±2.9%	±2.9%	∞
Phantom and Setup								
Phantom Uncertainty	±4.0%	R	√3	1	1	±2.3%	±2.3%	∞
Liquid Conductivity (target)	±5.0%	R	√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	√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						±10.9%	±10.7%	387
Expanded STD Uncertainty						±21.9%	±21.4%	

Table 19.6: Worst-Case uncertainty budget for DASY5 assessed according to IEEE 1528 [1]. The budget is valid for the frequency range 300 MHz - 3 GHz and represents a worst-case analysis. For specific tests and configurations, the uncertainty could be considerable smaller.

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