



SAR Compliance Test Report

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Measurements made by:	Julian Kim		
Tested device:	RM-193		
FCC ID:	QMNRM-193	IC:	661X-RM193
Supplement reports:	-		
Testing has been carried out in accordance with:	47CFR §2.1093 Radiofrequency Radiation Exposure Evaluation: Portable Devices FCC OET Bulletin 65 (Edition 97-01), Supplement C (Edition 01-01) Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields RSS-102 Evaluation Procedure for Mobile and Portable Radio Transmitters with Respect to Health Canada's Safety Code 6 for Exposure of Humans to Radio Frequency Fields IEEE 1528 - 2003 IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques		
Documentation:	The documentation of the testing performed on the tested devices is archived for 15 years at TCC San Diego.		
Test results:	The tested device complies with the requirements in respect of all parameters subject to the test. The test results and statements relate only to the items tested. The test report shall not be reproduced except in full, without written approval of the laboratory.		

Date and signatures:

2006-06-05

For the contents:

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1. SUMMARY OF SAR TEST REPORT

1.1 Test Details

Period of test	2006-04-21 to 2006-05-04
SN, HW and SW numbers of tested device	SN: 026/03343387 HW: 2001 SW: FL100b04.nep
Batteries used in testing	BL-6C
Headsets used in testing	HS-9 and HS-3
Other accessories used in testing	-
State of sample	Prototype Unit
Notes	-

1.2 Maximum Results

The maximum measured SAR values for Head configuration and Body Worn configuration are given in section 1.2.1 and 1.2.2 respectively. The device conforms to the requirements of the standard(s) when the maximum measured SAR value is less than or equal to the limit.

1.2.1 Head Configuration

Mode	Ch / f (MHz)	Conducted power	Position	Measured SAR value (1g avg)	Scaled* SAR value (1g avg)	SAR limit (1g avg)	Result
AMPS 800	799 / 848.97	25.0 dBm	Left Tilt	0.92 W/kg	1.03 W/kg	1.6 W/kg	PASSED
CDMA 800	777 / 848.31	25.0 dBm	Left Tilt	0.95 W/kg	1.06 W/kg	1.6 W/kg	PASSED
CDMA 1900	600 / 1880.0	23.4 dBm	Left Tilt	1.08 W/kg	1.21 W/kg	1.6 W/kg	PASSED

1.2.2 Body Worn Configuration

Mode	Ch / f (MHz)	Conducted power	Separation distance	Measured SAR value (1g avg)	Scaled* SAR value (1g avg)	SAR limit (1g avg)	Result
AMPS 800	384 / 836.52	24.9 dBm	2.2 cm	0.79 W/kg	0.88 W/kg	1.6 W/kg	PASSED
CDMA 800	384 / 836.52	25.0 dBm	2.2 cm	0.81 W/kg	0.91 W/kg	1.6 W/kg	PASSED
CDMA 1900	600 / 1880.0	23.4 dBm	2.2 cm	0.40 W/kg	0.45 W/kg	1.6 W/kg	PASSED

*SAR values are scaled up by 12% to cover measurement drift.

1.2.3 Maximum Drift

Maximum drift covered by 12% scaling up of the SAR values	Maximum drift during measurements
0.5dB	-0.21 dB

1.2.4 Measurement Uncertainty

Expanded Uncertainty (k=2) 95%	± 25.8%
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2. DESCRIPTION OF THE DEVICE UNDER TEST

Device category	Portable
Exposure environment	General population / Uncontrolled

Modes and Bands of Operation	AMPS 800	CDMA 800 / 1900	BT
Modulation Mode	FM	QPSK	GFSK
Duty Cycle	1	1	
Transmitter Frequency Range (MHz)	824 – 849	824 – 849 1850 - 1910	2402-2480

2.1 Picture of the Device



2.2 Description of the Antenna

The device has an internal patch antenna.

3. TEST CONDITIONS

3.1 Temperature and Humidity

Ambient temperature (°C):	21.0 to 21.7
Ambient humidity (RH %):	30 to 59

3.2 Test Signal, Frequencies, and Output Power

The device was put into operation by using a call tester. Communication between the device and the call tester was established by air link.

The device output power was set to maximum power level for all tests; a fully charged battery was used for every test sequence.

In all operating bands the measurements were performed on lowest, middle and highest channels.

4. DESCRIPTION OF THE TEST EQUIPMENT

4.1 Measurement System and Components

The measurements were performed using an automated near-field scanning system, DASY 4 software, manufactured by Schmid & Partner Engineering AG (SPEAG) in Switzerland. The SAR extrapolation algorithm used in all measurements on the device was the 'advanced extrapolation' algorithm.

The following table lists calibration dates of SPEAG components:

Test Equipment	Serial Number	Calibration interval	Calibration expiry
DAE V1	604	12 months	2006-12
E-field Probe ET3DV6	1792	12 months	2007-02
Dipole Validation Kit, D835V2	478	24 months	2006-10
Dipole Validation Kit, D1900V2	534	24 months	2006-10
DASY Software	Version 4.6	-	-

Additional test equipment used in testing:

Test Equipment	Model	Serial Number	Calibration interval	Calibration expiry
Signal Generator	Agilent E4436B	US 39260114	24 months	2006-05
Amplifier	Milmega AS0825-20L	1009777	-	-
Power Meter	Agilent E4417A	GB41290918	12 months	2006-10
Power Sensor	Agilent E9327A	US 40440897	12 months	2007-03
Power Sensor	Agilent E9327A	US 40440896	12 months	2007-03
Call Tester	Agilent 8960/E5515C	US 40440119	24 months	2007-12
Vector Network Analyzer	Agilent 8753ES	MY40002861	12 months	2006-06
Dielectric Probe Kit	Agilent 85070D	US 01440165	-	-



4.1.1 Isotropic E-field Probe Type ET3DV6

Construction	Symmetrical design with triangular core Built-in optical fiber for surface detection system Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., butyl diglycol)
Calibration	Calibration certificate in Appendix C
Frequency	10 MHz to 3 GHz (dosimetry); Linearity: ± 0.2 dB (30 MHz to 3 GHz)
Optical Surface Detection	± 0.2 mm repeatability in air and clear liquids over diffuse reflecting surfaces
Directivity	± 0.2 dB in HSL (rotation around probe axis) ± 0.4 dB in HSL (rotation normal to probe axis)
Dynamic Range	5 μ W/g to > 100 mW/g; Linearity: ± 0.2 dB
Dimensions	Overall length: 330 mm Tip length: 16 mm Body diameter: 12 mm Tip diameter: 6.8 mm Distance from probe tip to dipole centers: 2.7 mm
Application	General dosimetry up to 3 GHz Compliance tests of mobile phones Fast automatic scanning in arbitrary phantoms

4.2 Phantoms

The phantom used for all tests i.e. for both system checking and device testing, was the twin-headed "SAM Phantom", manufactured by SPEAG. The phantom conforms to the requirements of IEEE 1528 - 2003.

System checking was performed using the flat section, whilst Head SAR tests used the left and right head profile sections. Body SAR testing also used the flat section between the head profiles.

The SPEAG device holder (see Section 5.1) was used to position the device in all tests whilst a tripod was used to position the validation dipoles against the flat section of phantom.

4.3 Tissue Simulants

Recommended values for the dielectric parameters of the simulating liquids are given in IEEE 1528 - 2003 and FCC Supplement C to OET Bulletin 65. All tests were carried out using simulants whose dielectric parameters were within $\pm 5\%$ of the recommended values. All tests were carried out within 24 hours of measuring the dielectric parameters.

The depth of the tissue simulant was 15.0 ± 0.5 cm measured from the ear reference point during system checking and device measurements.

4.3.1 Tissue Simulant Recipes

The following recipes were used for Head and Body tissue simulants:

800MHz band

Ingredient	Head (% by weight)	Body (% by weight)
Deionised Water	39.74	55.97
HEC	0.25	1.21
Sugar	58.31	41.76
Preservative	0.15	0.27
Salt	1.55	0.79

1900MHz band

Ingredient	Head (% by weight)	Body (% by weight)
Deionised Water	54.88	69.02
Butyl Diglycol	44.91	30.76
Salt	0.21	0.22

4.3.2 System Checking

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

System checking, head tissue simulant

f [MHz]	Description	SAR [W/kg], 1g	Dielectric Parameters		Temp [°C]
			ϵ_r	σ [S/m]	
835	Reference result	2.34	41.8	0.89	
	± 10% window	2.11 – 2.57			
	2006-04-25	2.39	41.9	0.92	20.9
	2006-04-26	2.37	41.3	0.91	20.4
1900	Reference result	9.91	39.4	1.44	
	± 10% window	8.92 – 10.90			
	2006-05-01	10.7	38.9	1.46	21.0
	2006-05-02	10.8	38.7	1.46	21.6

System checking, body tissue simulant

f [MHz]	Description	SAR [W/kg], 1g	Dielectric Parameters		Temp [°C]
			ϵ_r	σ [S/m]	
835	Reference result	2.44	54.3	1.00	
	± 10% window	2.20 – 2.68			
	2006-04-21	2.43	53.1	0.95	21.0
	2005-04-24	2.41	53.1	0.95	21.6
1900	Reference result	9.85	51.3	1.59	
	± 10% window	8.87 – 10.83			
	2005-05-04	10.4	51.7	1.57	21.7

Plots of the system checking scans are given in Appendix A.

4.3.3 Tissue Simulants used in the Measurements

Head tissue simulant measurements

f [MHz]	Description	Dielectric Parameters		Temp [°C]
		ϵ_r	σ [S/m]	
836.5	Recommended value	41.5	0.90	
	$\pm 5\%$ window	39.4 – 43.6	0.86 – 0.95	
	2006-04-25	41.9	0.92	20.9
	2006-04-26	41.3	0.91	20.4
1880	Recommended value	40.0	1.40	
	$\pm 5\%$ window	38.0 – 42.0	1.33 – 1.47	
	2006-05-01	39.0	1.44	21.0
	2006-05-02	38.8	1.44	21.6

Body tissue simulant measurements

f [MHz]	Description	Dielectric Parameters		Temp [°C]
		ϵ_r	σ [S/m]	
836.5	Recommended value	55.2	0.97	
	$\pm 5\%$ window	52.4 – 58.0	0.92 – 1.02	
	2006-04-21	53.1	0.95	21.0
	2006-04-24	53.1	0.95	21.6
1880	Recommended value	53.3	1.52	
	$\pm 5\%$ window	50.6 – 56.0	1.44 – 1.60	
	2006-05-04	51.8	1.55	21.7

5. DESCRIPTION OF THE TEST PROCEDURE

5.1 Device Holder

The device was placed in the device holder (illustrated below) that is supplied by SPEAG as an integral part of the DASY system.



Device holder supplied by SPEAG

A Nokia designed spacer (illustrated below) was used to position the device within the SPEAG holder. The spacer positions the device so that the holder has minimal effect on the test results but still holds the device securely. The spacer was removed before the tests.



Nokia spacer

5.2 Test Positions

5.2.1 Against Phantom Head

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

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



Photo of the device in "cheek" position



Photo of the device in "tilt" position

5.2.2 Body Worn Configuration

The device was placed in the SPEAG holder using the Nokia spacer and placed below the flat section of the phantom. The distance between the device and the phantom was kept at the separation distance indicated in the photo below using a separate flat spacer that was removed before the start of the measurements. The device was oriented with its antenna facing the phantom since this orientation gives higher results.



2.2cm Spacer

Photo of the device positioned for Body SAR measurement. The spacer was removed for the tests.

5.3 Scan Procedures

First, area scans were used for determination of the field distribution. Next a zoom scan, a minimum of 5x5x7 points covering a volume of at least 30x30x30mm was performed around the highest E-field value to determine the averaged SAR value. Drift was determined by measuring the same point at the start of the area scan and again at the end of the zoom scan.

5.4 SAR Averaging Methods

The maximum SAR value was averaged over a cube of tissue using interpolation and extrapolation.

The interpolation, extrapolation and maximum search routines within Dasy4 are all based on the modified Quadratic Shepard's method (Robert J. Renka, "Multivariate Interpolation Of Large Sets Of Scattered Data", University of North Texas ACM Transactions on Mathematical Software, vol. 14, no. 2, June 1988, pp. 139-148).

The interpolation scheme combines a least-square fitted function method with a weighted average method. A trivariate 3-D / bivariate 2-D quadratic function is computed for each measurement point and fitted to neighbouring points by a least-square method. For the zoom scan, inverse distance weighting is incorporated to fit distant points more accurately. The interpolating function is finally calculated as a weighted average of the quadratics.

In the zoom scan, the interpolation function is used to extrapolate the Peak SAR from the deepest measurement points to the inner surface of the phantom.

6. MEASUREMENT UNCERTAINTY

Table 6.1 – Measurement uncertainty evaluation

Uncertainty Component	Section in IEEE 1528	Tol. (%)	Prob Dist	Div	G_i	$G_i \cdot U_i$ (%)	V_i
Measurement System							
Probe Calibration	E2.1	± 5.9	N	1	1	± 5.9	∞
Axial Isotropy	E2.2	± 4.7	R	$\sqrt{3}$	$(1-c_p)^{1/2}$	± 1.9	∞
Hemispherical Isotropy	E2.2	± 9.6	R	$\sqrt{3}$	$(c_p)^{1/2}$	± 3.9	∞
Boundary Effect	E2.3	± 1.0	R	$\sqrt{3}$	1	± 0.6	∞
Linearity	E2.4	± 4.7	R	$\sqrt{3}$	1	± 2.7	∞
System Detection Limits	E2.5	± 1.0	R	$\sqrt{3}$	1	± 0.6	∞
Readout Electronics	E2.6	± 1.0	N	1	1	± 1.0	∞
Response Time	E2.7	± 0.8	R	$\sqrt{3}$	1	± 0.5	∞
Integration Time	E2.8	± 2.6	R	$\sqrt{3}$	1	± 1.5	∞
RF Ambient Conditions - Noise	E6.1	± 3.0	R	$\sqrt{3}$	1	± 1.7	∞
RF Ambient Conditions - Reflections	E6.1	± 3.0	R	$\sqrt{3}$	1	± 1.7	∞
Probe Positioner Mechanical Tolerance	E6.2	± 0.4	R	$\sqrt{3}$	1	± 0.2	∞
Probe Positioning with respect to Phantom Shell	E6.3	± 2.9	R	$\sqrt{3}$	1	± 1.7	∞
Extrapolation, interpolation and Integration Algorithms for Max. SAR Evaluation	E5	± 3.9	R	$\sqrt{3}$	1	± 2.3	∞
Test sample Related							
Test Sample Positioning	E4.2	± 6.0	N	1	1	± 6.0	11
Device Holder Uncertainty	E4.1	± 5.0	N	1	1	± 5.0	7
Output Power Variation - SAR drift measurement	6.6.3	± 0.0	R	$\sqrt{3}$	1	± 0.0	∞
Phantom and Tissue Parameters							
Phantom Uncertainty (shape and thickness tolerances)	E3.1	± 4.0	R	$\sqrt{3}$	1	± 2.3	∞
Conductivity Target - tolerance	E3.2	± 5.0	R	$\sqrt{3}$	0.64	± 1.8	∞
Conductivity - measurement uncertainty	E3.3	± 5.5	N	1	0.64	± 3.5	5
Permittivity Target - tolerance	E3.2	± 5.0	R	$\sqrt{3}$	0.6	± 1.7	∞
Permittivity - measurement uncertainty	E3.3	± 2.9	N	1	0.6	± 1.7	5
Combined Standard Uncertainty			RSS			± 12.9	116
Coverage Factor for 95%			k=2				
Expanded Uncertainty						± 25.8	

7. RESULTS

The measured Head SAR values for the test device are tabulated below:

AMPS800 Head SAR Results

Test Configuration		SAR, averaged over 1g (W/kg)		
		Ch 991 824.04 MHz	Ch 384 836.52 MHz	Ch 799 848.97 MHz
Power		24.9 dBm	24.9 dBm	25.0 dBm
Left	Cheek	-	0.75	-
	Tilt	0.70	0.83	0.92
Right	Cheek	-	0.71	-
	Tilt	-	0.71	-
Left Tilt with Bluetooth active		-	-	0.92

CDMA800 Head SAR Results

Test Configuration		SAR, averaged over 1g (W/kg)		
		Ch 1013 824.70 MHz	Ch 384 836.52 MHz	Ch 777 848.31 MHz
Power		25.0 dBm	25.0 dBm	25.0 dBm
Left	Cheek	-	0.77	-
	Tilt	-	-	0.93
Right	Cheek	-	0.70	-
	Tilt	-	0.78	-
Left Tilt with Bluetooth active		-	-	0.95

CDMA1900 Head SAR Results

Test Configuration		SAR, averaged over 1g (W/kg)		
		Ch 25 1851.25 MHz	Ch 600 1880.00 MHz	Ch 1175 1908.75 MHz
Power		23.4 dBm	23.4 dBm	23.4 dBm
Left	Cheek	0.90	0.95	0.85
	Tilt	0.97	1.03	0.95
Right	Cheek	0.62	0.80	0.68
	Tilt	-	0.76	-
Left Tilt with Bluetooth active		-	1.08	-

The measured Body SAR values for the test device are tabulated below:

AMPS800 Body SAR Results

Test Configuration	SAR, averaged over 1g (W/kg)		
	Ch 991 824.04 MHz	Ch 384 836.52 MHz	Ch 799 848.97 MHz
Power	24.9 dBm	24.9 dBm	25.0 dBm
Without headset	0.78	0.79	0.76
Headset HS-3	-	0.43	-
Headset HS-9	-	0.73	-
No headset with Bluetooth active	-	0.79	-

CDMA800 Body SAR Results

Test Configuration	SAR, averaged over 1g (W/kg)		
	Ch 1013 824.70 MHz	Ch 384 836.52 MHz	Ch 777 848.31 MHz
Power	25.0 dBm	25.0 dBm	25.0 dBm
Without headset	0.79	0.80	0.77
Headset HS-3	-	0.51	-
Headset HS-9	-	0.74	-
No headset with Bluetooth active	-	0.81	-

CDMA1900 Body SAR Results

Test Configuration	SAR, averaged over 1g (W/kg)		
	Ch 25 1851.25 MHz	Ch 600 1880.00 MHz	Ch 1175 1908.75 MHz
Power	23.4 dBm	23.4 dBm	23.4 dBm
Without headset	0.35	0.40	0.40
Headset HS-3	-	0.38	-
Headset HS-9	-	0.36	-
No headset with Bluetooth active	-	0.38	-

Plots of the Measurement scans are given in Appendix B.



APPENDIX A: SYSTEM CHECKING SCANS

Date: 2006-04-25; Test Laboratory: TCC San Diego

Dipole 835 MHz; Serial No. 478; Head System Check

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

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.916 \text{ mho/m}$; $\epsilon_r = 41.9$; $\rho = 1000 \text{ kg/m}^3$; Temperature (liq.) = 20.9°C

Phantom section: Flat Section; Advanced Extrapolation

DASY4 Configuration:

- Probe: ET3DV6 - SN1792; ConvF(6.7, 6.7, 6.7); Calibrated: 2/21/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 12/12/2005
- Phantom: SAM1; Type: SAM; Serial: TP-1035
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

835MHz system check/Area Scan (61x61x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 2.59 mW/g

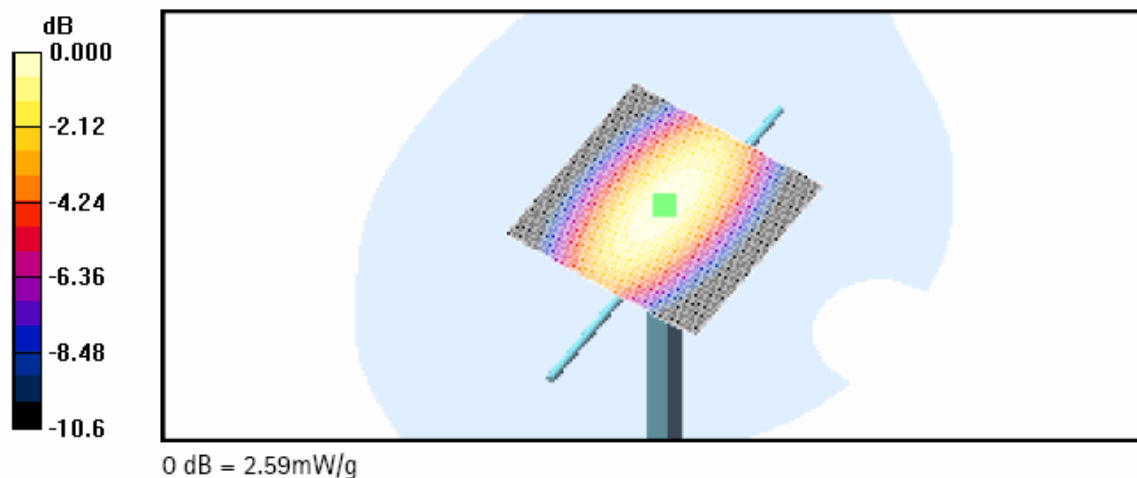
835MHz system check/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 54.7 V/m ; Power Drift = 0.013 dB

Peak SAR (extrapolated) = 3.62 W/kg

SAR(1 g) = 2.39 mW/g ; SAR(10 g) = 1.55 mW/g

Maximum value of SAR (measured) = 2.59 mW/g



Date: 2006-04-26; Test Laboratory: TCC San Diego

Dipole 835 MHz; Serial No. 478; Head System Check

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

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.909 \text{ mho/m}$; $\epsilon_r = 41.3$; $\rho = 1000 \text{ kg/m}^3$; Temperature (liq.) = 20.4°C

Phantom section: Flat Section; **Advanced Extrapolation**

DASY4 Configuration:

- Probe: ET3DV6 - SN1792; ConvF(6.7, 6.7, 6.7); Calibrated: 2/21/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 12/12/2005
- Phantom: SAM1; Type: SAM; Serial: TP-1035
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

835MHz system check/Area Scan (61x61x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 2.59 mW/g

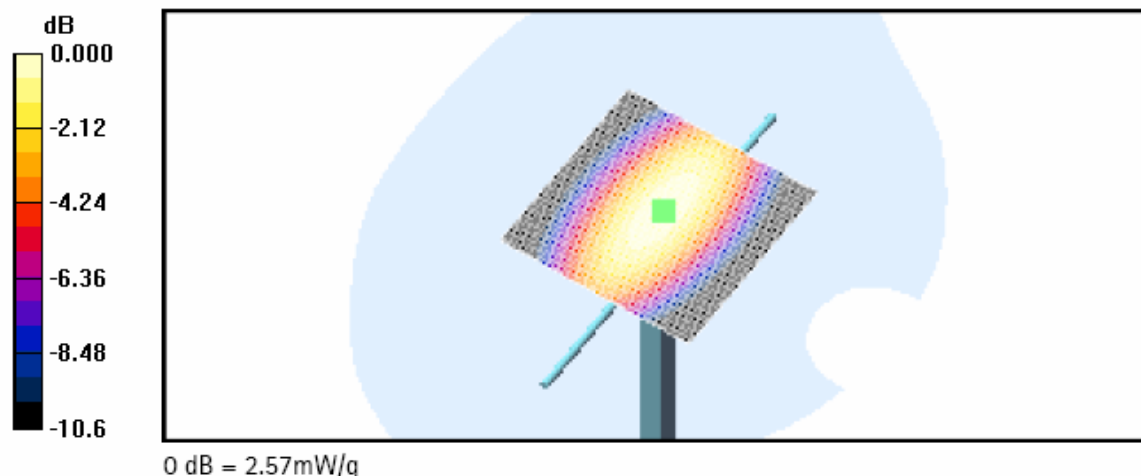
835MHz system check/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 54.7 V/m ; Power Drift = -0.025 dB

Peak SAR (extrapolated) = 3.60 W/kg

SAR(1 g) = 2.37 mW/g ; SAR(10 g) = 1.54 mW/g

Maximum value of SAR (measured) = 2.57 mW/g



Date: 2006-05-01; Test Laboratory: TCC San Diego

Dipole 1900 MHz; Serial No. 534; Head System Check

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

Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.46 \text{ mho/m}$; $\epsilon_r = 38.9$; $\rho = 1000 \text{ kg/m}^3$; Temperature (liq.) = 21.0°C

Phantom section: Flat Section; **Advanced Extrapolation**

DASY4 Configuration:

- Probe: ET3DV6 - SN1792; ConvF(5.09, 5.09, 5.09); Calibrated: 2/21/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 12/12/2005
- Phantom: SAM2; Type: SAM; Serial: TP-1279
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

1900MHz system check/Area Scan (61x61x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 12.0 mW/g

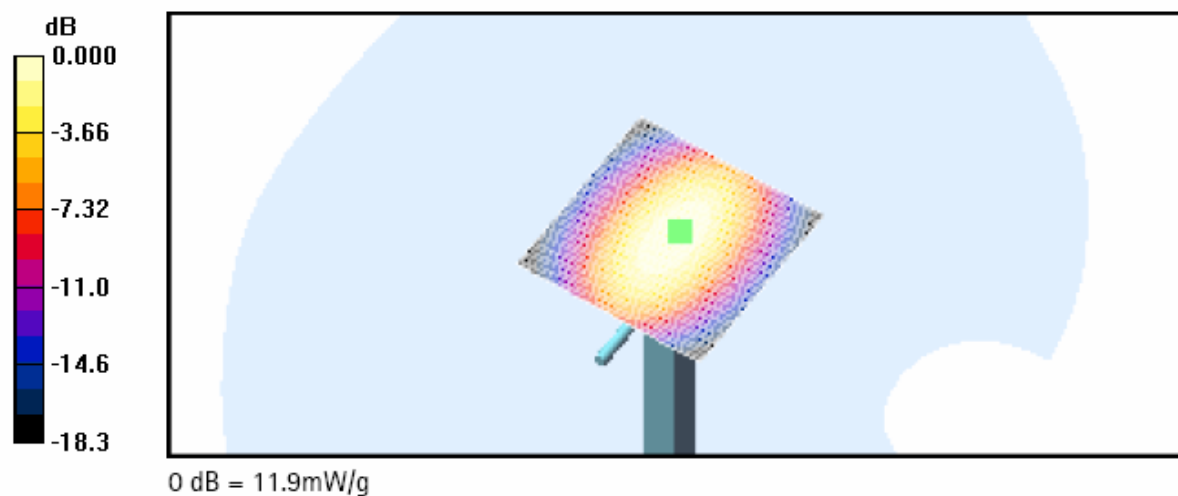
1900MHz system check/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 92.7 V/m ; Power Drift = 0.000 dB

Peak SAR (extrapolated) = 21.0 W/kg

SAR(1 g) = 10.7 mW/g ; SAR(10 g) = 5.43 mW/g

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



Date: 2006-05-02; Test Laboratory: TCC San Diego

Dipole 1900 MHz; Serial No. 534; Head System Check

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

Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.46 \text{ mho/m}$; $\epsilon_r = 38.7$; $\rho = 1000 \text{ kg/m}^3$; Temperature (liq.) = 21.6°C

Phantom section: Flat Section; **Advanced Extrapolation**

DASY4 Configuration:

- Probe: ET3DV6 - SN1792; ConvF(5.09, 5.09, 5.09); Calibrated: 2/21/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 12/12/2005
- Phantom: SAM2; Type: SAM; Serial: TP-1279
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

1900MHz system check/Area Scan (61x61x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 12.2 mW/g

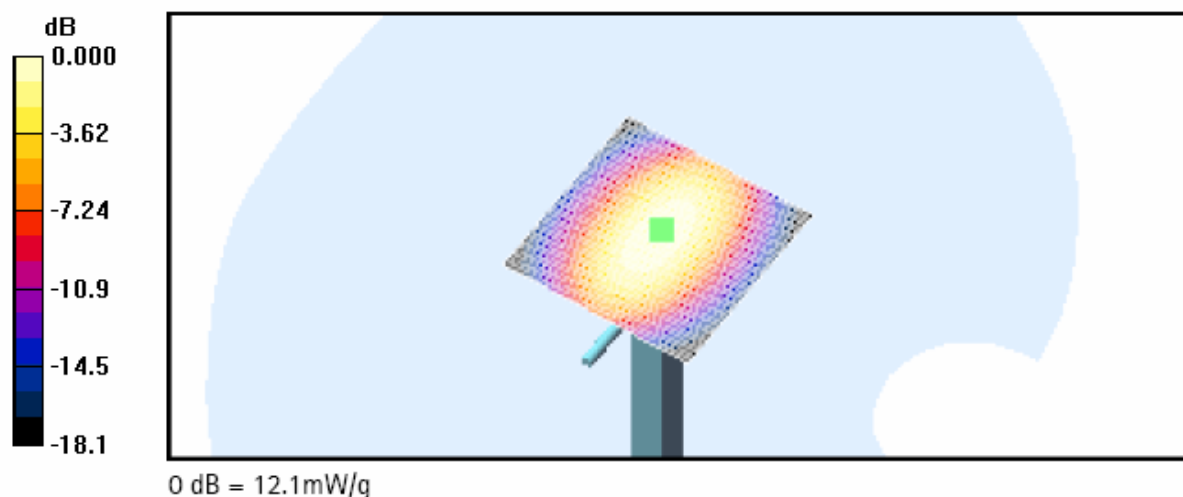
1900MHz system check/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 93.6 V/m ; Power Drift = 0.002 dB

Peak SAR (extrapolated) = 21.3 W/kg

SAR(1 g) = 10.8 mW/g ; SAR(10 g) = 5.52 mW/g

Maximum value of SAR (measured) = 12.1 mW/g



Date: 2006-04-21; Test Laboratory: TCC San Diego

Dipole 835 MHz; Serial No. 478; Body System Check

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

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.953 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$; Temperature (liq.) = 21.0°C

Phantom section: Flat Section; **Advanced Extrapolation**

DASY4 Configuration:

- Probe: ET3DV6 - SN1792; ConvF(6.4, 6.4, 6.4); Calibrated: 2/21/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 12/12/2005
- Phantom: SAM2; Type: SAM; Serial: TP-1279
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

835MHz system check/Area Scan (61x61x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 2.62 mW/g

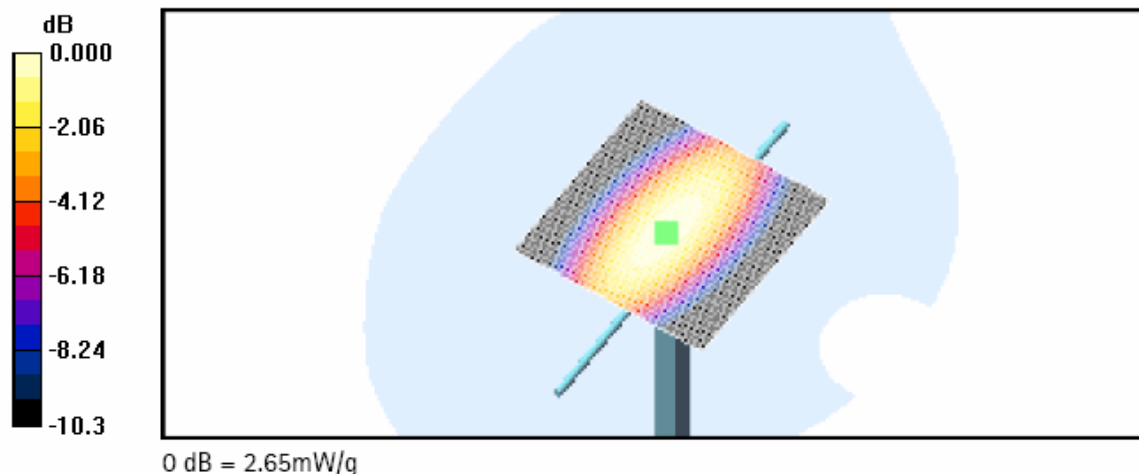
835MHz system check/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 54.1 V/m ; Power Drift = 0.009 dB

Peak SAR (extrapolated) = 3.60 W/kg

$\text{SAR}(1 \text{ g}) = 2.43 \text{ mW/g}$; $\text{SAR}(10 \text{ g}) = 1.59 \text{ mW/g}$

Maximum value of SAR (measured) = 2.65 mW/g



Date: 2006-04-24; Test Laboratory: TCC San Diego

Dipole 835 MHz; Serial No. 478; Body System Check

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

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.951 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$; Temperature (liq.) = 21.6°C

Phantom section: Flat Section; Advanced Extrapolation

DASY4 Configuration:

- Probe: ET3DV6 - SN1792; ConvF(6.4, 6.4, 6.4); Calibrated: 2/21/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 12/12/2005
- Phantom: SAM2; Type: SAM; Serial: TP-1279
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

835MHz system check/Area Scan (61x61x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 2.61 mW/g

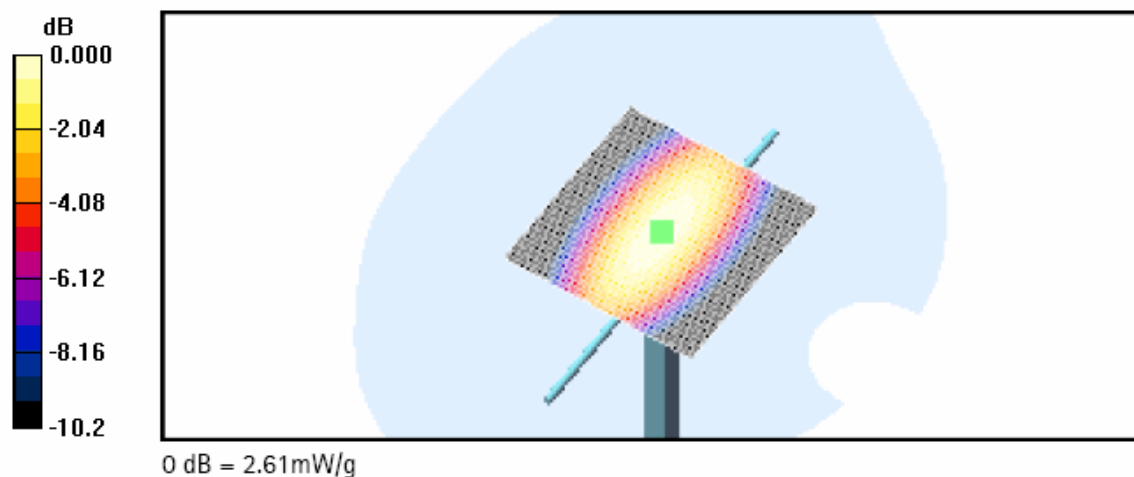
835MHz system check/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 53.8 V/m ; Power Drift = 0.017 dB

Peak SAR (extrapolated) = 3.55 W/kg

SAR(1 g) = 2.41 mW/g ; SAR(10 g) = 1.58 mW/g

Maximum value of SAR (measured) = 2.61 mW/g



Date: 2006-05-04; Test Laboratory: TCC San Diego

Dipole 1900 MHz; Serial No. 534; Body System Check

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r = 51.7$; $\rho = 1000$ kg/m³; Temperature (liq.) = 21.7 °C

Phantom section: Flat Section; **Advanced Extrapolation**

DASY4 Configuration:

- Probe: ET3DV6 - SN1792; ConvF(4.56, 4.56, 4.56); Calibrated: 2/21/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 12/12/2005
- Phantom: SAM2; Type: SAM; Serial: TP-1279
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

1900MHz system check/Area Scan (61x61x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 12.2 mW/g

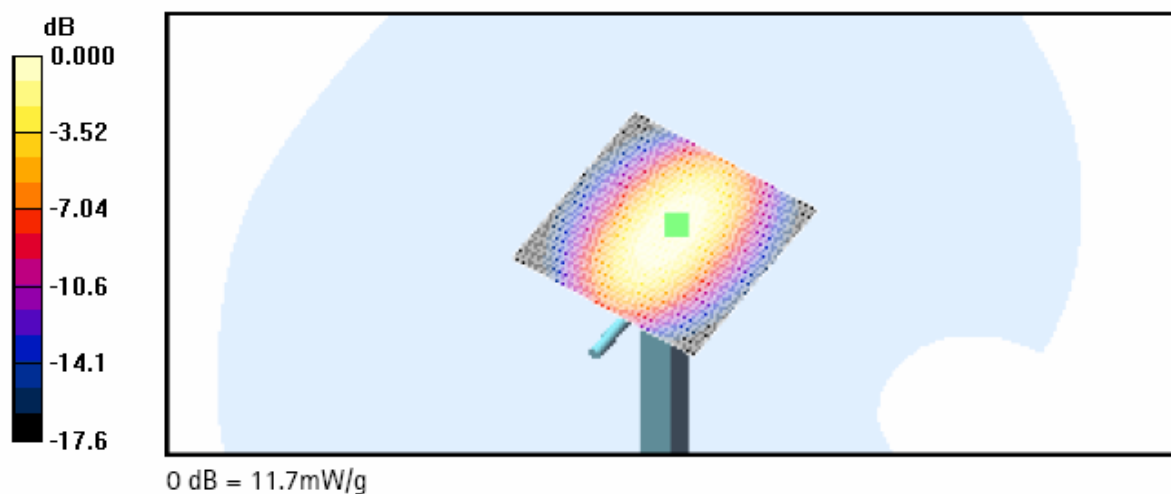
1900MHz system check/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 90.5 V/m; Power Drift = 0.008 dB

Peak SAR (extrapolated) = 19.4 W/kg

SAR(1 g) = 10.4 mW/g; SAR(10 g) = 5.39 mW/g

Maximum value of SAR (measured) = 11.7 mW/g





APPENDIX B: MEASUREMENT SCANS

Date: 2006-04-25; Test Laboratory: TCC San Diego

Type: RM-193; HWID: 2001; Serial No: 026/03343387

Communication System: AMPS800; Channel: 384; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.52$ MHz; $\sigma = 0.919$ mho/m; $\epsilon_r = 41.9$; $\rho = 1000$ kg/m³;

Temperature (liq.) = 20.9 °C

Phantom section: Left Section; **Advanced Extrapolation**

DASY4 Configuration:

- Probe: ET3DV6 - SN1792; ConvF(6.7, 6.7, 6.7); Calibrated: 2/21/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 12/12/2005
- Phantom: SAM1; Type: SAM; Serial: TP-1035
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Left cheek/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.790 mW/g

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

Reference Value = 26.5 V/m; Power Drift = 0.007 dB

Peak SAR (extrapolated) = 1.39 W/kg

SAR(1 g) = 0.750 mW/g; SAR(10 g) = 0.430 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

Left cheek/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

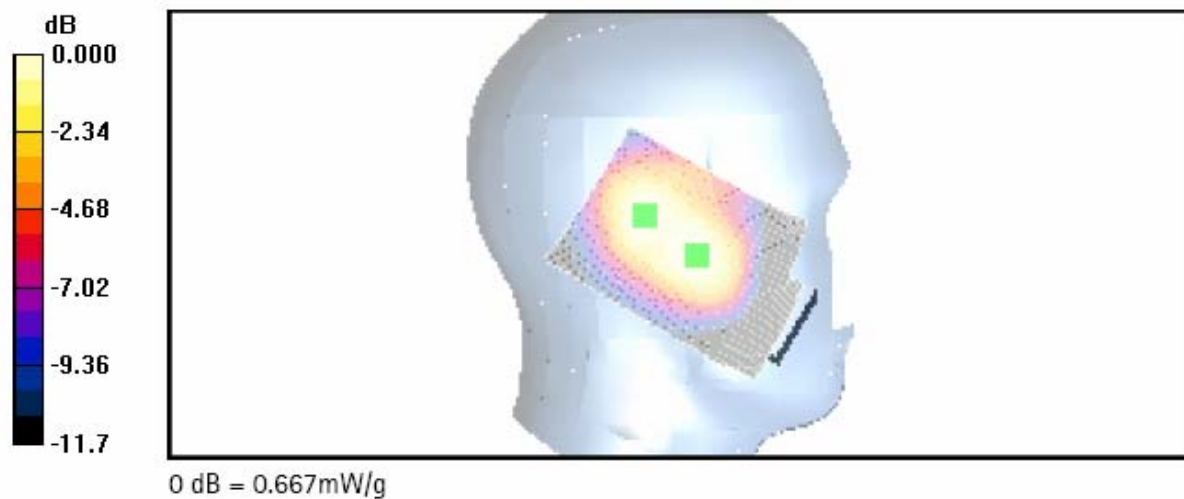
Reference Value = 26.5 V/m; Power Drift = 0.007 dB

Peak SAR (extrapolated) = 0.959 W/kg

SAR(1 g) = 0.642 mW/g; SAR(10 g) = 0.452 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.667 mW/g



Date: 2006-04-25; Test Laboratory: TCC San Diego

Type: RM-193; HWID: 2001; Serial No: 026/03343387

Communication System: AMPS800; Channel: 799; Frequency: 848.97 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 849$ MHz; $\sigma = 0.929$ mho/m; $\epsilon_r = 41.7$; $\rho = 1000$ kg/m³; Temperature (liq.)
= 20.9 °C

Phantom section: Left Section; **Advanced Extrapolation**

DASY4 Configuration:

- Probe: ET3DV6 - SN1792; ConvF(6.7, 6.7, 6.7); Calibrated: 2/21/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 12/12/2005
- Phantom: SAM1; Type: SAM; Serial: TP-1035
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Left tilt/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

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

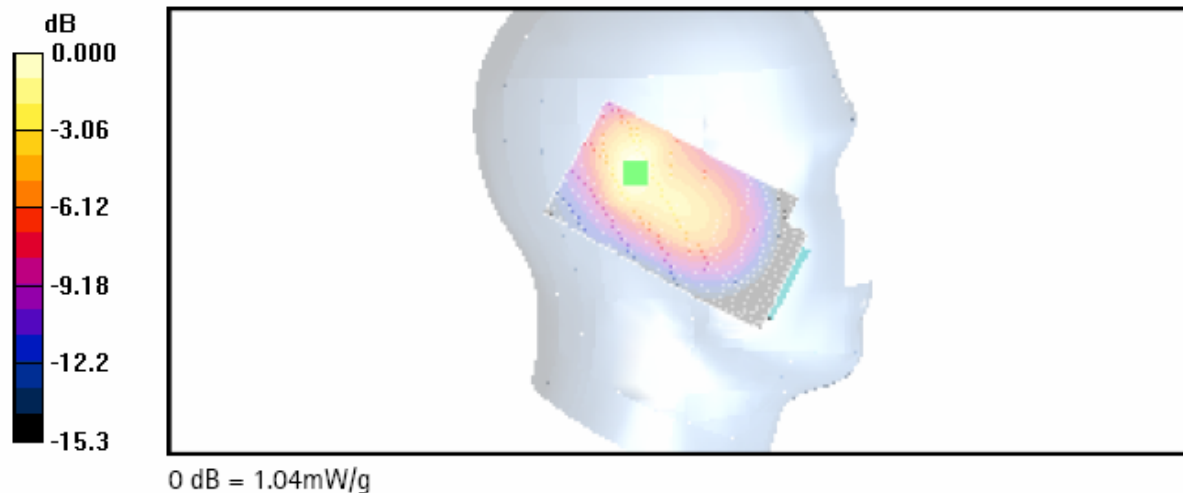
Left tilt/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.9 V/m; Power Drift = 0.075 dB

Peak SAR (extrapolated) = 1.75 W/kg

SAR(1 g) = 0.922 mW/g; SAR(10 g) = 0.504 mW/g

Maximum value of SAR (measured) = 1.04 mW/g





Date: 2006-04-25; Test Laboratory: TCC San Diego

Type: RM-193; HWID: 2001; Serial No: 026/03343387

Communication System: AMPS800; Channel: 384; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.52$ MHz; $\sigma = 0.919$ mho/m; $\epsilon_r = 41.9$; $\rho = 1000$ kg/m³;

Temperature (liq.) = 20.9 °C

Phantom section: Right Section; **Advanced Extrapolation**

DASY4 Configuration:

- Probe: ET3DV6 - SN1792; ConvF(6.7, 6.7, 6.7); Calibrated: 2/21/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 12/12/2005
- Phantom: SAM1; Type: SAM; Serial: TP-1035
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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

Maximum value of SAR (interpolated) = 0.811 mW/g

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

Reference Value = 28.0 V/m; Power Drift = 0.008 dB

Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.712 mW/g; SAR(10 g) = 0.502 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.749 mW/g

Right cheek/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

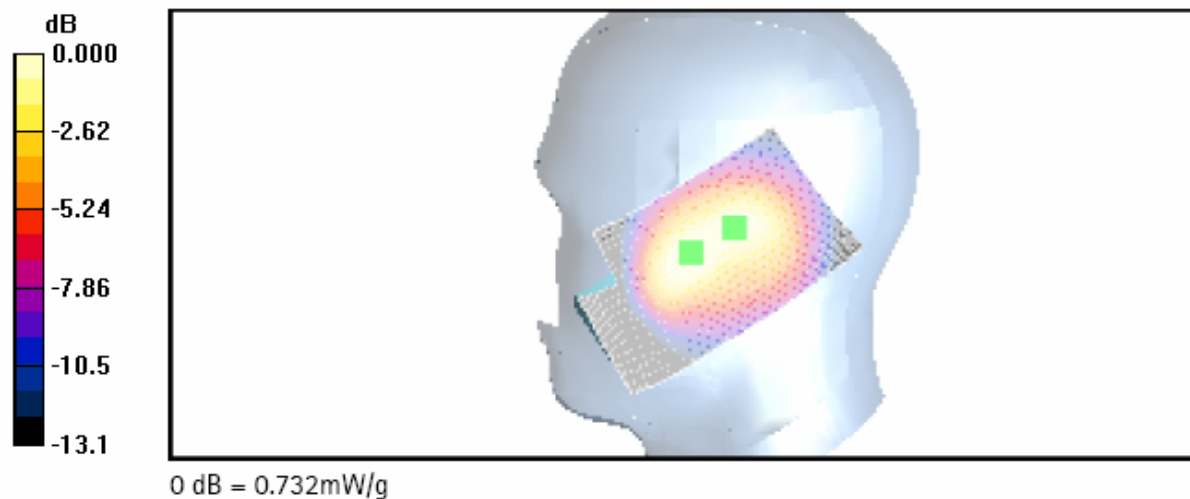
Reference Value = 28.0 V/m; Power Drift = 0.008 dB

Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.664 mW/g; SAR(10 g) = 0.442 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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





Date: 2006-04-25; Test Laboratory: TCC San Diego

Type: RM-193; HWID: 2001; Serial No: 026/03343387

Communication System: AMPS800; Channel: 384; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.52$ MHz; $\sigma = 0.919$ mho/m; $\epsilon_r = 41.9$; $\rho = 1000$ kg/m³;

Temperature (liq.) = 20.9 °C

Phantom section: Right Section; Advanced Extrapolation

DASY4 Configuration:

- Probe: ET3DV6 - SN1792; ConvF(6.7, 6.7, 6.7); Calibrated: 2/21/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 12/12/2005
- Phantom: SAM1; Type: SAM; Serial: TP-1035
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Right tilt/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.805 mW/g

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

Reference Value = 27.0 V/m; Power Drift = 0.052 dB

Peak SAR (extrapolated) = 1.26 W/kg

SAR(1 g) = 0.709 mW/g; SAR(10 g) = 0.416 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.764 mW/g

Right tilt/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

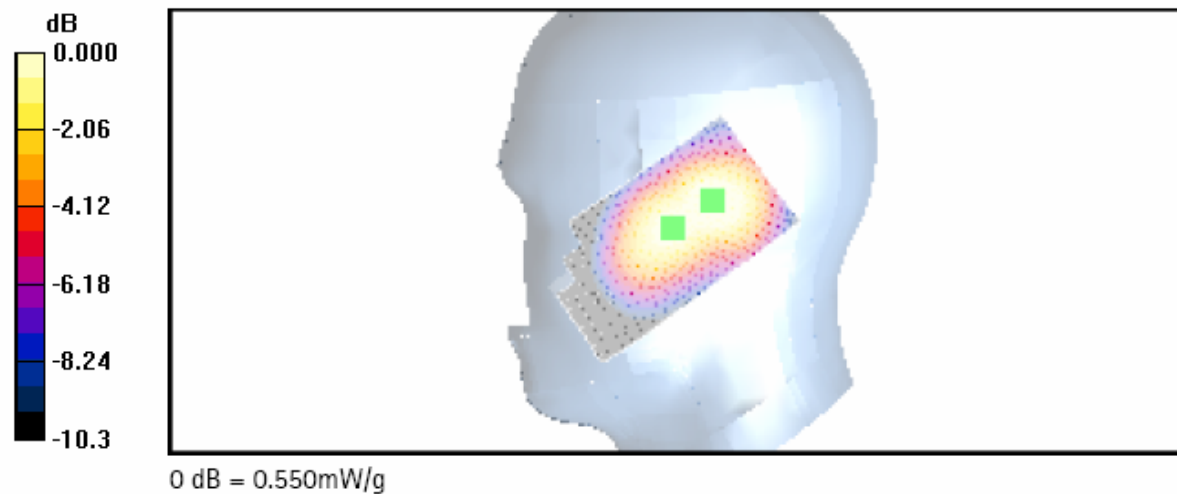
Reference Value = 27.0 V/m; Power Drift = 0.052 dB

Peak SAR (extrapolated) = 0.682 W/kg

SAR(1 g) = 0.519 mW/g; SAR(10 g) = 0.367 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.550 mW/g





Date: 2006-04-26; Test Laboratory: TCC San Diego

Type: RM-193; HWID: 2001; Serial No: 026/03343387

Communication System: CDMA800; Channel: 384; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.52$ MHz; $\sigma = 0.909$ mho/m; $\epsilon_r = 41.3$; $\rho = 1000$ kg/m³;

Temperature (liq.) = 20.4 °C

Phantom section: Left Section; **Advanced Extrapolation**

DASY4 Configuration:

- Probe: ET3DV6 - SN1792; ConvF(6.7, 6.7, 6.7); Calibrated: 2/21/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 12/12/2005
- Phantom: SAM1; Type: SAM; Serial: TP-1035
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Left cheek/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.838 mW/g

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

Reference Value = 26.0 V/m; Power Drift = -0.040 dB

Peak SAR (extrapolated) = 1.41 W/kg

SAR(1 g) = 0.773 mW/g; SAR(10 g) = 0.439 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.862 mW/g

Left cheek/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

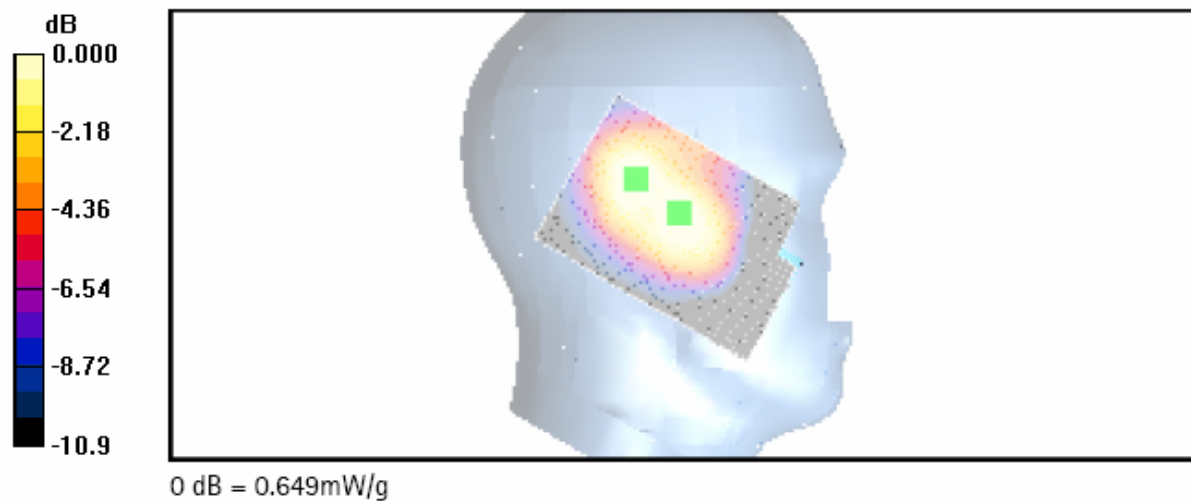
Reference Value = 26.0 V/m; Power Drift = -0.040 dB

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.625 mW/g; SAR(10 g) = 0.437 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.649 mW/g



Date: 2006-04-26; Test Laboratory: TCC San Diego

Type: RM-193; HWID: 2001; Serial No: 026/03343387

Communication System: CDMA800; Channel: 777; Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 848.5$ MHz; $\sigma = 0.923$ mho/m; $\epsilon_r = 41.1$; $\rho = 1000$ kg/m³; Temperature (liq.) = 20.4 °C

Phantom section: Left Section; **Advanced Extrapolation**

DASY4 Configuration:

- Probe: ET3DV6 - SN1792; ConvF(6.7, 6.7, 6.7); Calibrated: 2/21/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 12/12/2005
- Phantom: SAM1; Type: SAM; Serial: TP-1035
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Left tilt/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

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

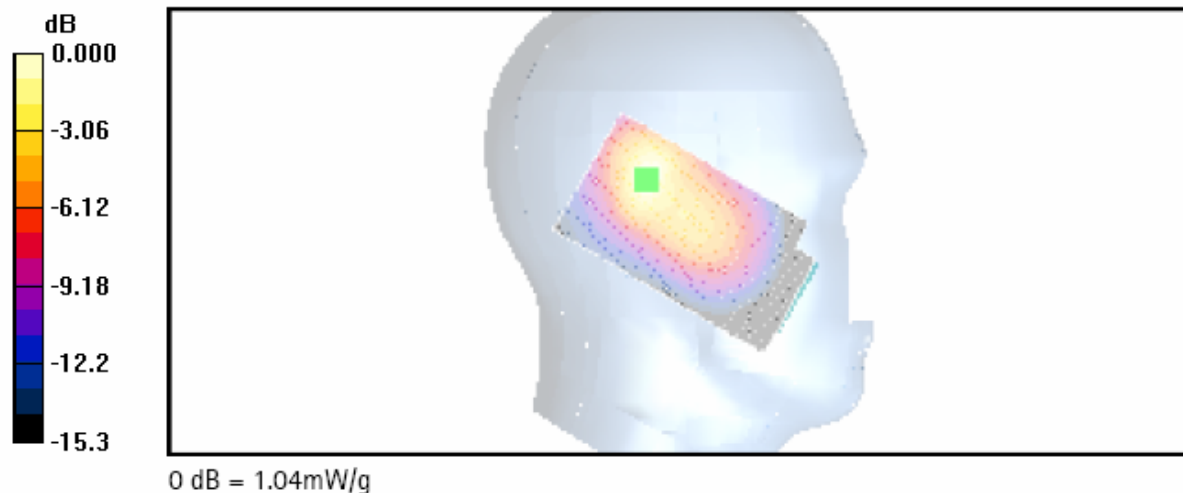
Left tilt/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.4 V/m; Power Drift = -0.006 dB

Peak SAR (extrapolated) = 1.77 W/kg

SAR(1 g) = 0.930 mW/g; SAR(10 g) = 0.500 mW/g

Maximum value of SAR (measured) = 1.04 mW/g





Date: 2006-04-26; Test Laboratory: TCC San Diego

Type: RM-193; HWID: 2001; Serial No: 026/03343387

Communication System: CDMA800; Channel: 384; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.52$ MHz; $\sigma = 0.909$ mho/m; $\epsilon_r = 41.3$; $\rho = 1000$ kg/m³;

Temperature (liq.) = 20.4 °C

Phantom section: Right Section; **Advanced Extrapolation**

DASY4 Configuration:

- Probe: ET3DV6 - SN1792; ConvF(6.7, 6.7, 6.7); Calibrated: 2/21/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 12/12/2005
- Phantom: SAM1; Type: SAM; Serial: TP-1035
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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

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

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

Reference Value = 28.0 V/m; Power Drift = 0.038 dB

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.701 mW/g; SAR(10 g) = 0.494 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.735 mW/g

Right cheek/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

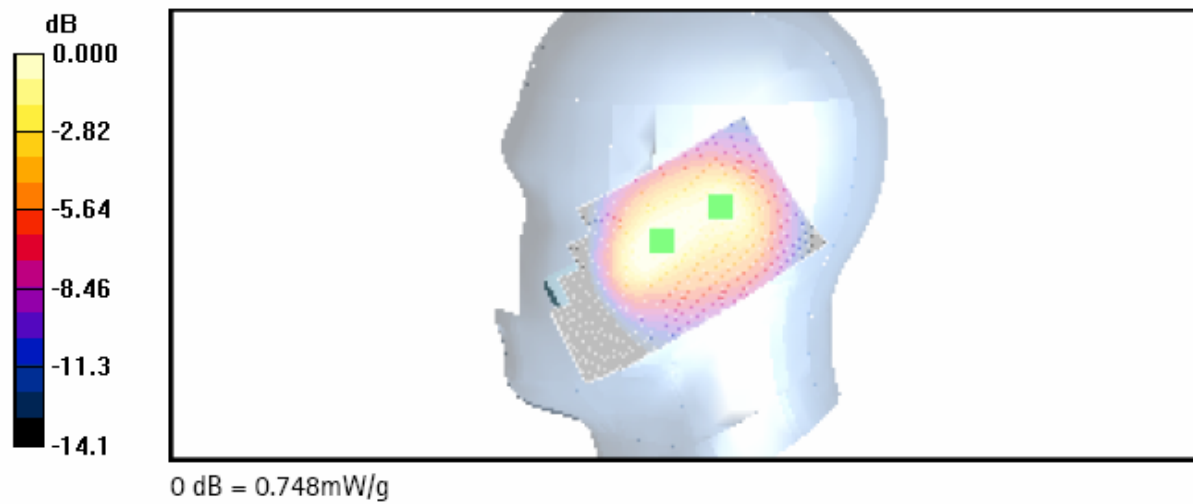
Reference Value = 28.0 V/m; Power Drift = 0.038 dB

Peak SAR (extrapolated) = 1.17 W/kg

SAR(1 g) = 0.686 mW/g; SAR(10 g) = 0.432 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.748 mW/g





Date: 2006-04-26; Test Laboratory: TCC San Diego

Type: RM-193; HWID: 2001; Serial No: 026/03343387

Communication System: CDMA800; Channel: 384; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.52$ MHz; $\sigma = 0.909$ mho/m; $\epsilon_r = 41.3$; $\rho = 1000$ kg/m³ ;

Temperature (liq.) = 20.4 °C

Phantom section: Right Section ; **Advanced Extrapolation**

DASY4 Configuration:

- Probe: ET3DV6 - SN1792; ConvF(6.7, 6.7, 6.7); Calibrated: 2/21/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 12/12/2005
- Phantom: SAM1; Type: SAM; TP-1035
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Right tilt/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.846 mW/g

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

Reference Value = 27.2 V/m; Power Drift = -0.002 dB

Peak SAR (extrapolated) = 1.44 W/kg

SAR(1 g) = 0.778 mW/g; SAR(10 g) = 0.441 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.817 mW/g

Right tilt/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

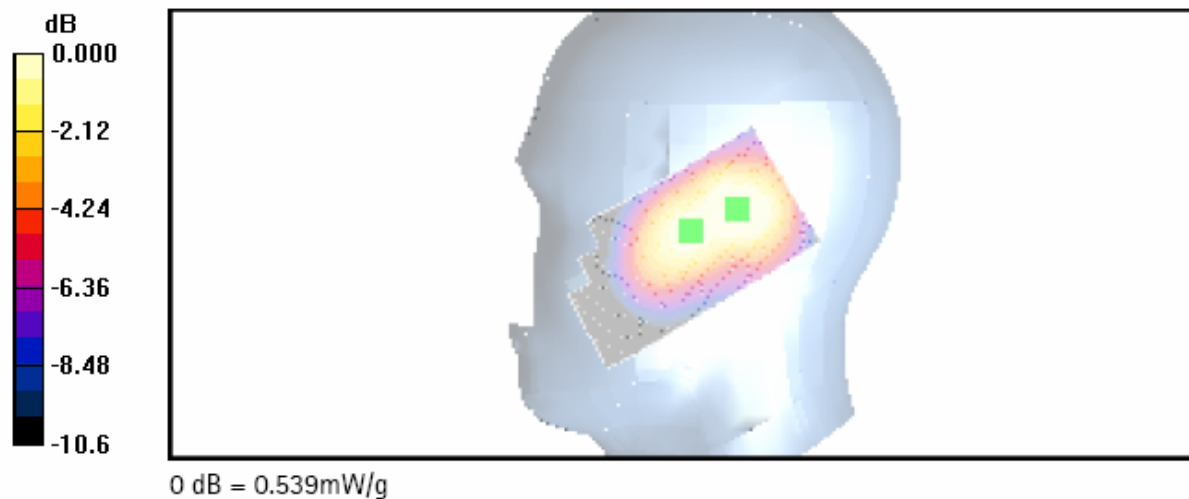
Reference Value = 27.2 V/m; Power Drift = -0.002 dB

Peak SAR (extrapolated) = 0.676 W/kg

SAR(1 g) = 0.511 mW/g; SAR(10 g) = 0.362 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.539 mW/g



Date: 2006-04-26; Test Laboratory: TCC San Diego

Type: RM-193; HWID: 2001; Serial No: 026/03343387; with Bluetooth active

Communication System: CDMA800; Channel: 777; Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 848.5$ MHz; $\sigma = 0.923$ mho/m; $\epsilon_r = 41.1$; $\rho = 1000$ kg/m³; Temperature (liq.) = 20.4 °C

Phantom section: Left Section; **Advanced Extrapolation**

DASY4 Configuration:

- Probe: ET3DV6 - SN1792; ConvF(6.7, 6.7, 6.7); Calibrated: 2/21/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 12/12/2005
- Phantom: SAM1; Type: SAM; Serial: TP-1035
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Left tilt/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

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

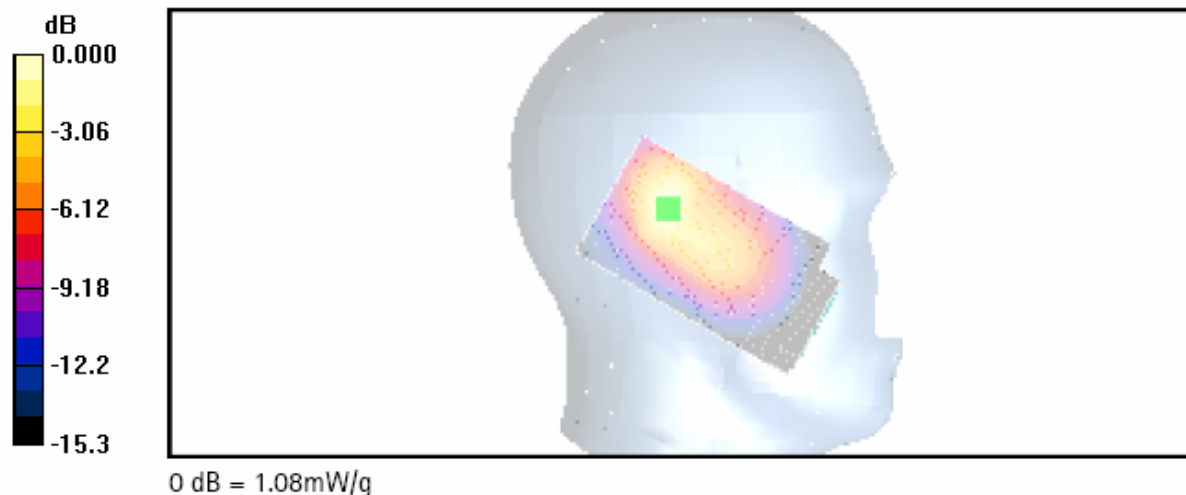
Left tilt/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

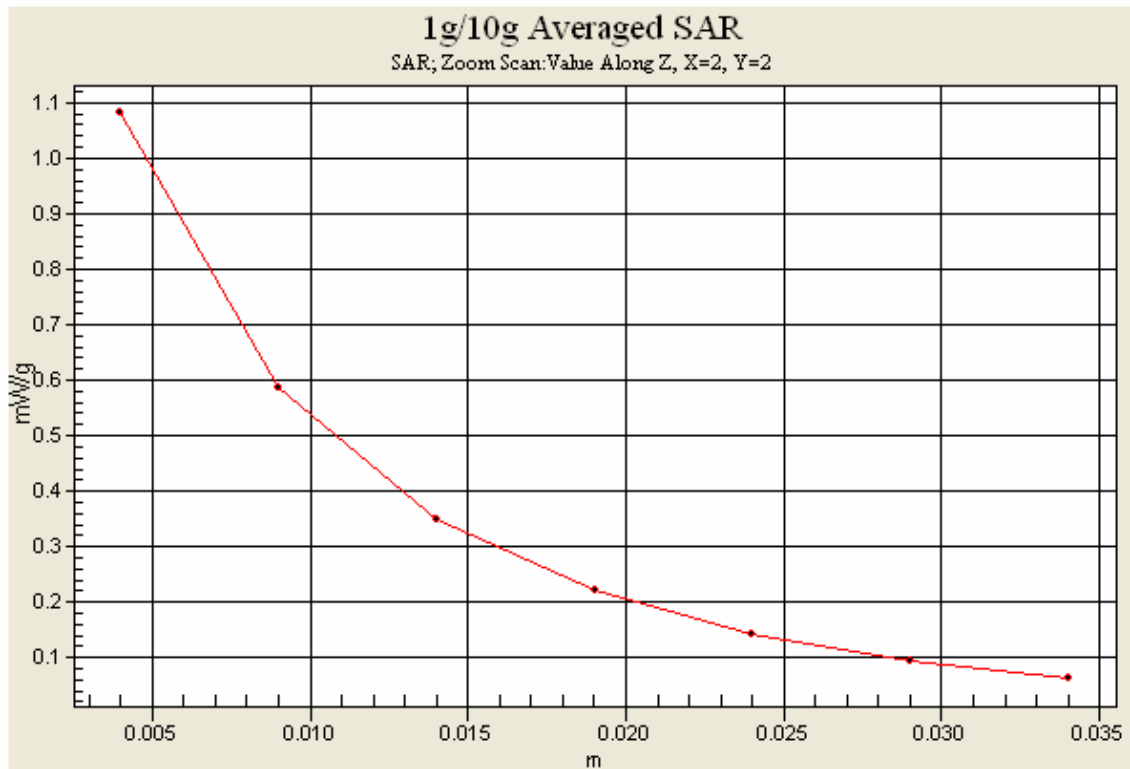
Reference Value = 26.3 V/m; Power Drift = 0.085 dB

Peak SAR (extrapolated) = 1.83 W/kg

SAR(1 g) = 0.946 mW/g; SAR(10 g) = 0.507 mW/g

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







Date: 2006-05-01; Test Laboratory: TCC San Diego

Type: RM-193; HWID: 2001; Serial No: 026/03343387

Communication System: CDMA1900 ; Channel: 600; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 39$; $\rho = 1000$ kg/m³; Temperature (liq.) = 21.0 °C

Phantom section: Left Section; **Advanced Extrapolation**

DASY4 Configuration:

- Probe: ET3DV6 - SN1792; ConvF(5.09, 5.09, 5.09); Calibrated: 2/21/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 12/12/2005
- Phantom: SAM2; Type: SAM; Serial: TP-1279
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Left cheek/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.968 mW/g

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

Reference Value = 18.4 V/m; Power Drift = -0.016 dB

Peak SAR (extrapolated) = 1.82 W/kg

SAR(1 g) = 0.946 mW/g; SAR(10 g) = 0.519 mW/g

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

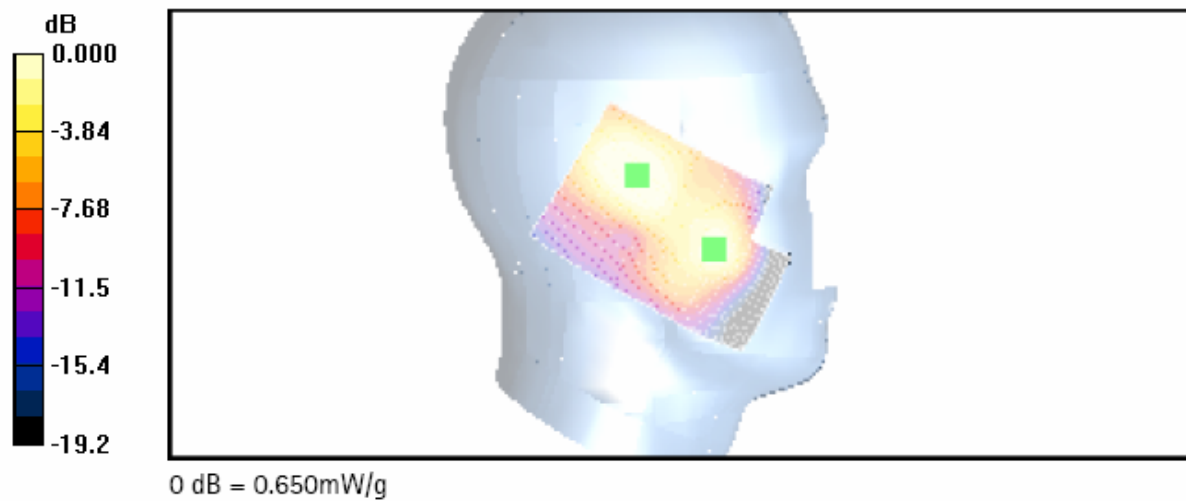
Left cheek/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.4 V/m; Power Drift = -0.016 dB

Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.642 mW/g; SAR(10 g) = 0.351 mW/g

Maximum value of SAR (measured) = 0.650 mW/g



Date: 2006-05-01; Test Laboratory: TCC San Diego

Type: RM-193; HWID: 2001; Serial No: 026/03343387

Communication System: CDMA1900; Channel: 600; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 39$; $\rho = 1000$ kg/m³; Temperature (liq.) = 21.0 °C

Phantom section: Left Section; **Advanced Extrapolation**

DASY4 Configuration:

- Probe: ET3DV6 - SN1792; ConvF(5.09, 5.09, 5.09); Calibrated: 2/21/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 12/12/2005
- Phantom: SAM2; Type: SAM; Serial: TP-1279
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Left tilt/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

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

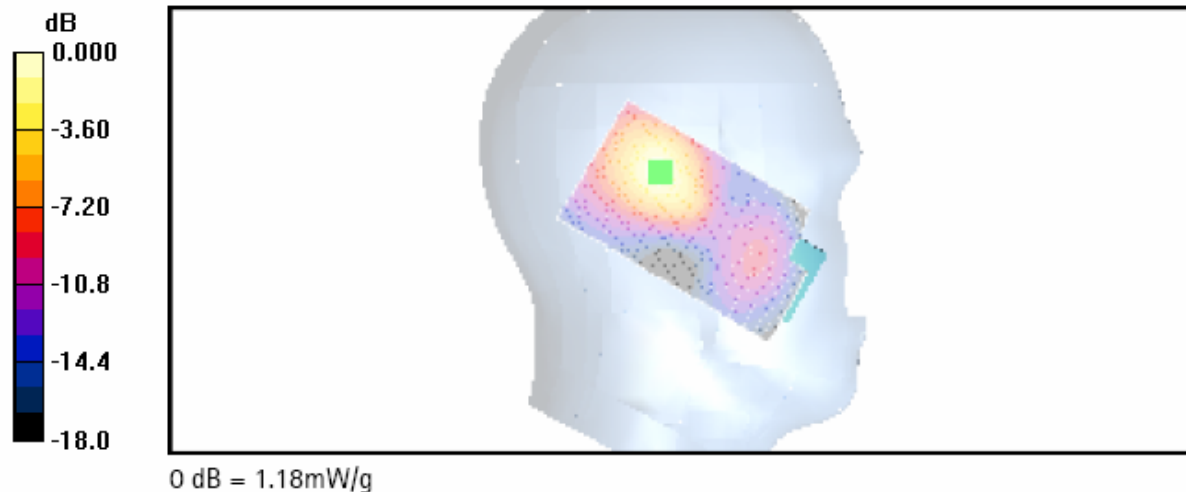
Left tilt/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.4 V/m; Power Drift = 0.025 dB

Peak SAR (extrapolated) = 2.11 W/kg

SAR(1 g) = 1.03 mW/g; SAR(10 g) = 0.521 mW/g

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





Date: 2006-05-02; Test Laboratory: TCC San Diego

Type: RM-193; HWID: 2001; Serial No: 026/03343387

Communication System: CDMA1900 ; Channel: 600; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³; Temperature (liq.) = 21.6 °C

Phantom section: Right Section; **Advanced Extrapolation**

DASY4 Configuration:

- Probe: ET3DV6 - SN1792; ConvF(5.09, 5.09, 5.09); Calibrated: 2/21/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 12/12/2005
- Phantom: SAM2; Type: SAM; Serial: TP-1279
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Right cheek/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.816 mW/g

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

Reference Value = 21.1 V/m; Power Drift = -0.015 dB

Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.804 mW/g; SAR(10 g) = 0.454 mW/g

Maximum value of SAR (measured) = 0.887 mW/g

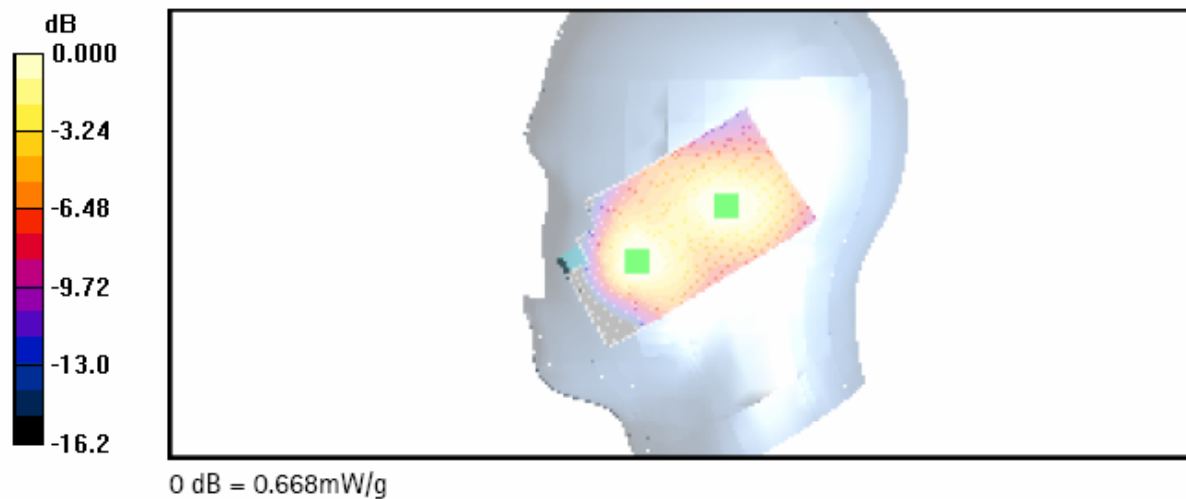
Right cheek/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.1 V/m; Power Drift = -0.015 dB

Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.629 mW/g; SAR(10 g) = 0.385 mW/g

Maximum value of SAR (measured) = 0.668 mW/g



Date: 2006-05-02; Test Laboratory: TCC San Diego

Type: RM-193; HWID: 2001; Serial No: 026/03343387

Communication System: CDMA1900 ; Channel: 600; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³; Temperature (liq.) = 21.6 °C

Phantom section: Right Section; **Advanced Extrapolation**

DASY4 Configuration:

- Probe: ET3DV6 - SN1792; ConvF(5.09, 5.09, 5.09); Calibrated: 2/21/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 12/12/2005
- Phantom: SAM2; Type: SAM; Serial: TP-1279
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Right tilt/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.818 mW/g

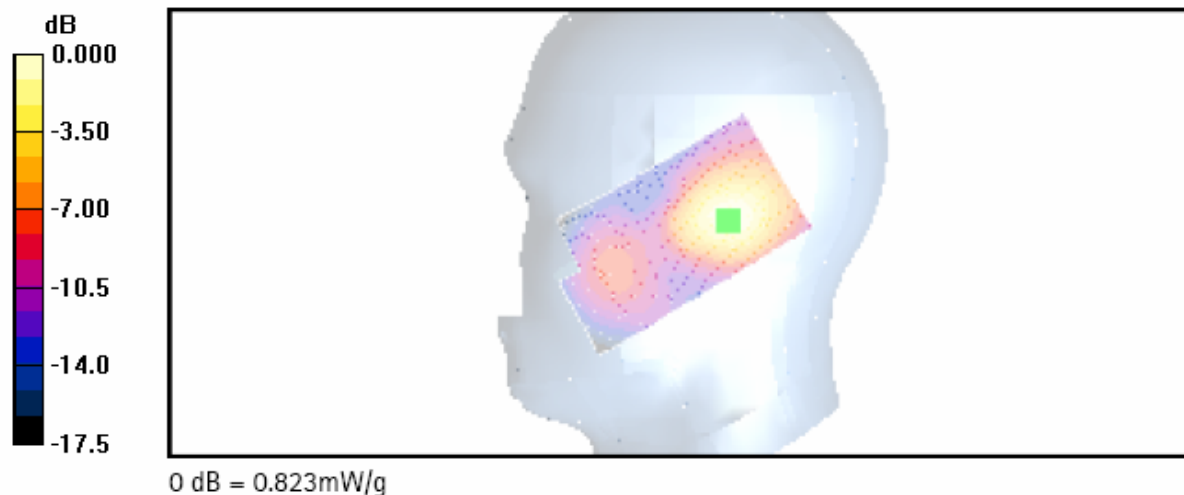
Right tilt/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.5 V/m; Power Drift = -0.021 dB

Peak SAR (extrapolated) = 1.43 W/kg

SAR(1 g) = 0.756 mW/g; SAR(10 g) = 0.417 mW/g

Maximum value of SAR (measured) = 0.823 mW/g



Date: 2006-05-02; Test Laboratory: TCC San Diego

Type: RM-193; HWID: 2001; Serial No: 026/03343387; with Bluetooth active

Communication System: CDMA1900 ; Channel: 600; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³; Temperature (liq.)
= 21.6 °C

Phantom section: Left Section; **Advanced Extrapolation**

DASY4 Configuration:

- Probe: ET3DV6 - SN1792; ConvF(5.09, 5.09, 5.09); Calibrated: 2/21/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 12/12/2005
- Phantom: SAM2; Type: SAM; Serial: TP-1279
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Left tilt/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

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

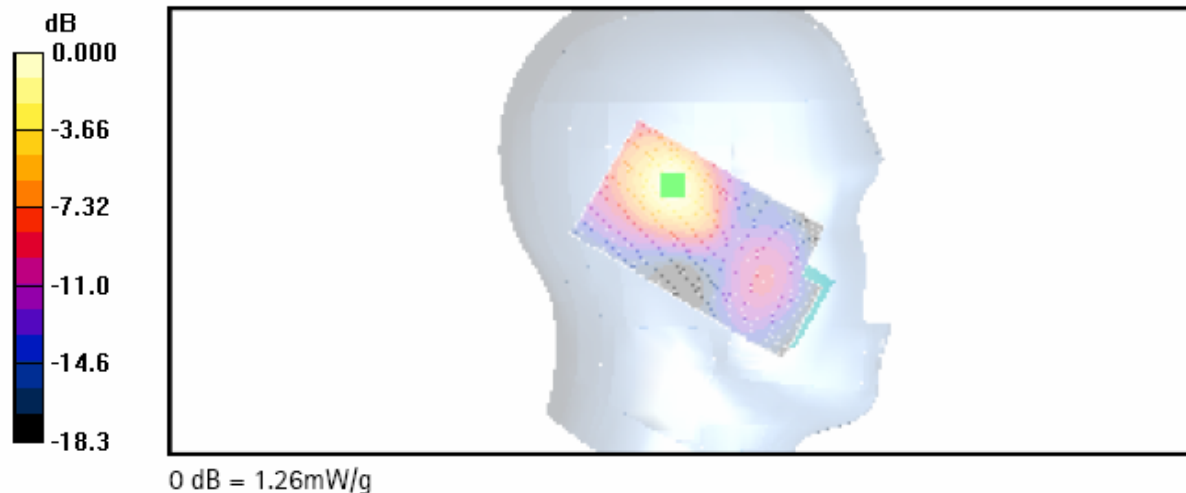
Left tilt/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

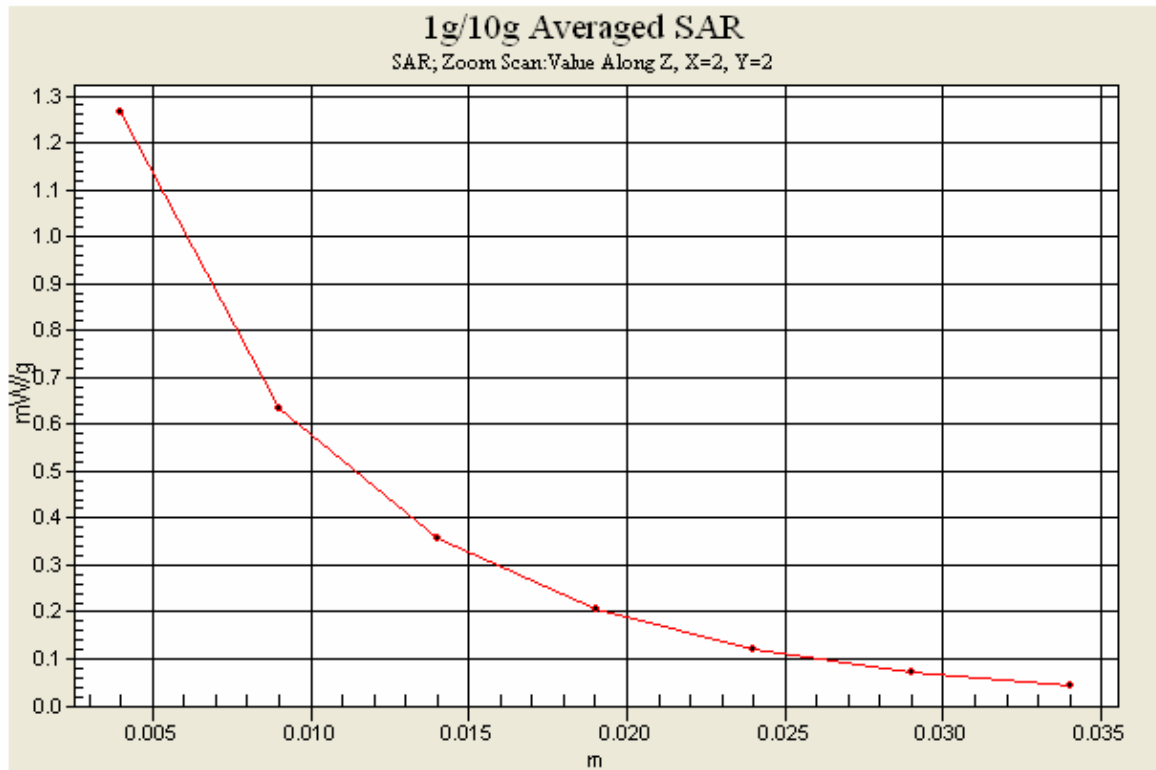
Reference Value = 17.2 V/m; Power Drift = 0.122 dB

Peak SAR (extrapolated) = 2.24 W/kg

SAR(1 g) = 1.08 mW/g; SAR(10 g) = 0.543 mW/g

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





Date: 2006-04-21; Test Laboratory: TCC San Diego

Type: RM-193; HWID: 2001; Serial No: 026/03343387; No headset

Communication System: AMPS800; Channel: 384; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.52$ MHz; $\sigma = 0.954$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³ ;

Temperature (liq.) = 21.0 °C

Phantom section: Flat Section ; Advanced Extrapolation

DASY4 Configuration:

- Probe: ET3DV6 - SN1792; ConvF(6.4, 6.4, 6.4); Calibrated: 2/21/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 12/12/2005
- Phantom: SAM2; Type: SAM; Serial: TP-1279
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.842 mW/g

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

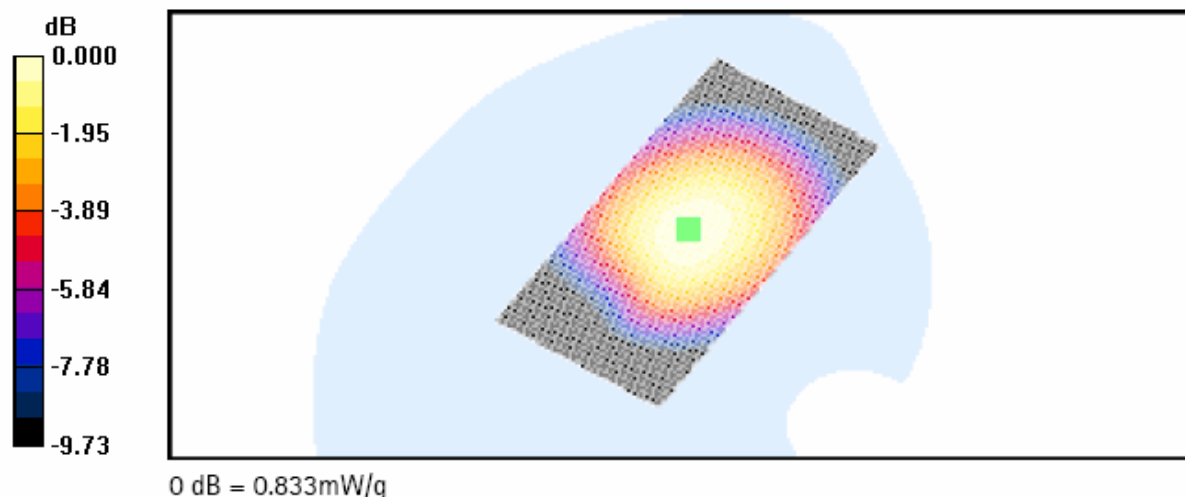
Reference Value = 17.5 V/m; Power Drift = -0.125 dB

Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.787 mW/g; SAR(10 g) = 0.567 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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



Date: 2006-04-21; Test Laboratory: TCC San Diego

Type: RM-193; HWID: 2001; Serial No: 026/03343387; with headset HS-3

Communication System: AMPS800; Channel: 384; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.52$ MHz; $\sigma = 0.954$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³;

Temperature (liq.) = 21.0 °C

Phantom section: Flat Section; **Advanced Extrapolation**

DASY4 Configuration:

- Probe: ET3DV6 - SN1792; ConvF(6.4, 6.4, 6.4); Calibrated: 2/21/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 12/12/2005
- Phantom: SAM2; Type: SAM; Serial: TP-1279
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.458 mW/g

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

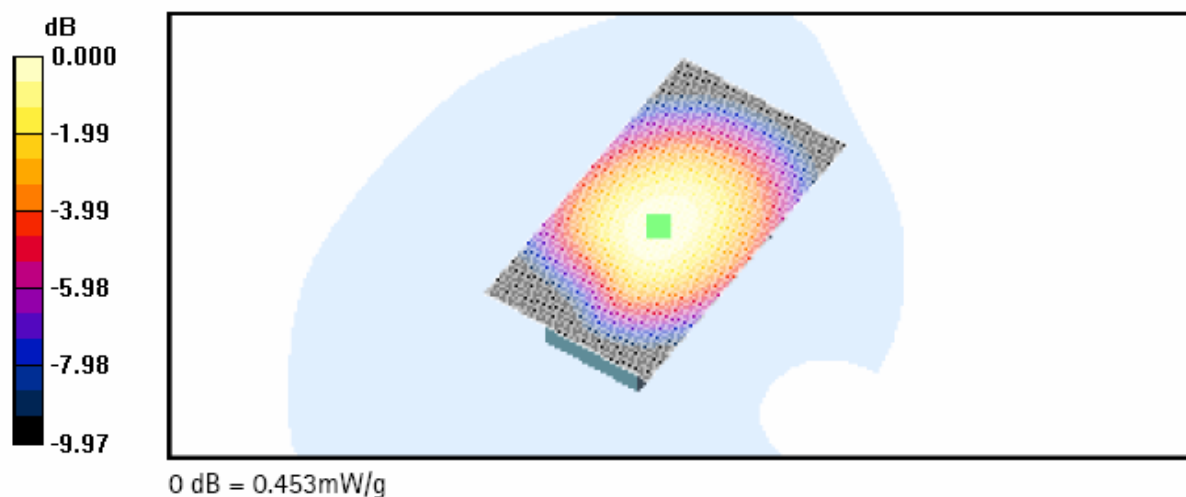
Reference Value = 14.2 V/m; Power Drift = -0.019 dB

Peak SAR (extrapolated) = 0.571 W/kg

SAR(1 g) = 0.427 mW/g; SAR(10 g) = 0.303 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.453 mW/g



Date: 2006-04-24; Test Laboratory: TCC San Diego

Type: RM-193; HWID: 2001; Serial No: 026/03343387; with headset HS-9

Communication System: AMPS800; Channel: 384; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.52$ MHz; $\sigma = 0.952$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³;

Temperature (liq.) = 21.6 °C

Phantom section: Flat Section; Advanced Extrapolation

DASY4 Configuration:

- Probe: ET3DV6 - SN1792; ConvF(6.4, 6.4, 6.4); Calibrated: 2/21/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 12/12/2005
- Phantom: SAM2; Type: SAM; Serial: TP-1279
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.779 mW/g

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

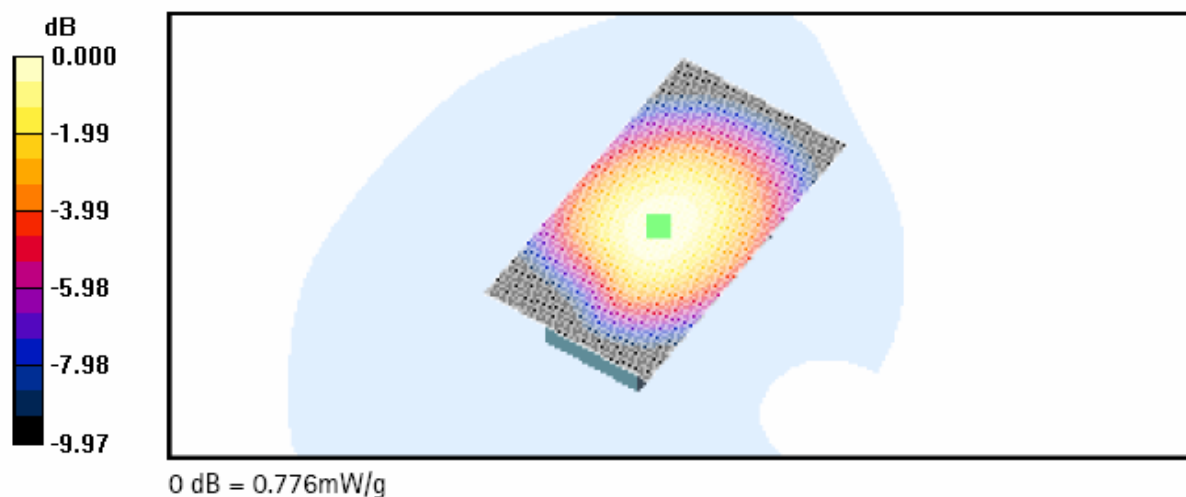
Reference Value = 17.9 V/m; Power Drift = -0.019 dB

Peak SAR (extrapolated) = 0.957 W/kg

SAR(1 g) = 0.730 mW/g; SAR(10 g) = 0.524 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.776 mW/g



Date: 2006-04-21; Test Laboratory: TCC San Diego

Type: RM-193; HWID: 2001; Serial No: 026/03343387; No headset with Bluetooth active

Communication System: AMPS800; Channel: 384; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.52$ MHz; $\sigma = 0.954$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³;

Temperature (liq.) = 21.0 °C

Phantom section: Flat Section; Advanced Extrapolation

DASY4 Configuration:

- Probe: ET3DV6 - SN1792; ConvF(6.4, 6.4, 6.4); Calibrated: 2/21/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 12/12/2005
- Phantom: SAM2; Type: SAM; Serial: TP-1279
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.842 mW/g

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

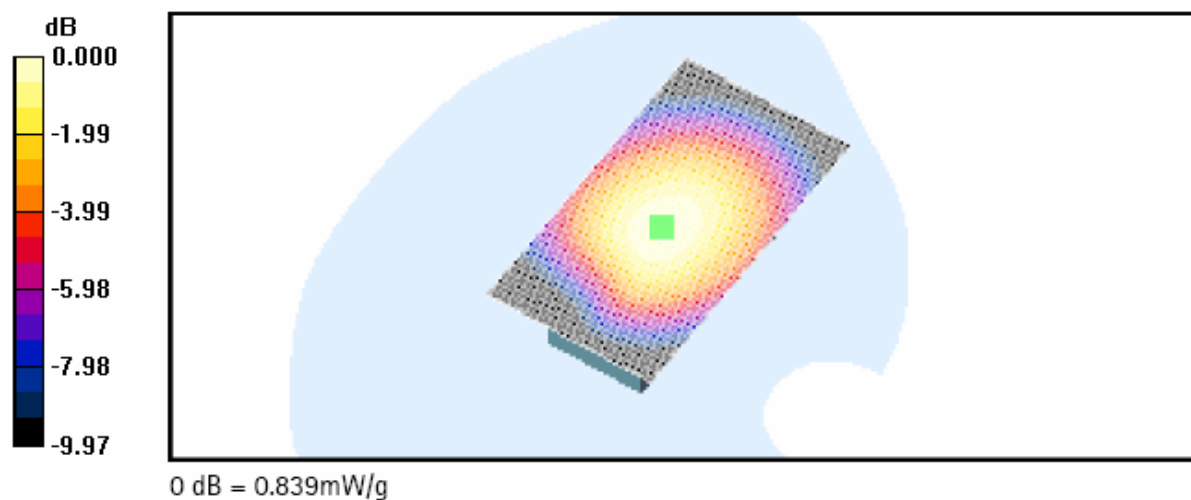
Reference Value = 18.3 V/m; Power Drift = 0.007 dB

Peak SAR (extrapolated) = 1.038 W/kg

SAR(1 g) = 0.793 mW/g; SAR(10 g) = 0.571 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.839 mW/g



Date: 2006-04-24; Test Laboratory: TCC San Diego

Type: RM-193; HWID: 2001; Serial No: 026/03343387; No headset

Communication System: CDMA800; Channel: 384; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.52$ MHz; $\sigma = 0.952$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³;

Temperature (liq.) = 21.6 °C

Phantom section: Flat Section; **Advanced Extrapolation**

DASY4 Configuration:

- Probe: ET3DV6 - SN1792; ConvF(6.4, 6.4, 6.4); Calibrated: 2/21/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 12/12/2005
- Phantom: SAM2; Type: SAM; Serial: TP-1279
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

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

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

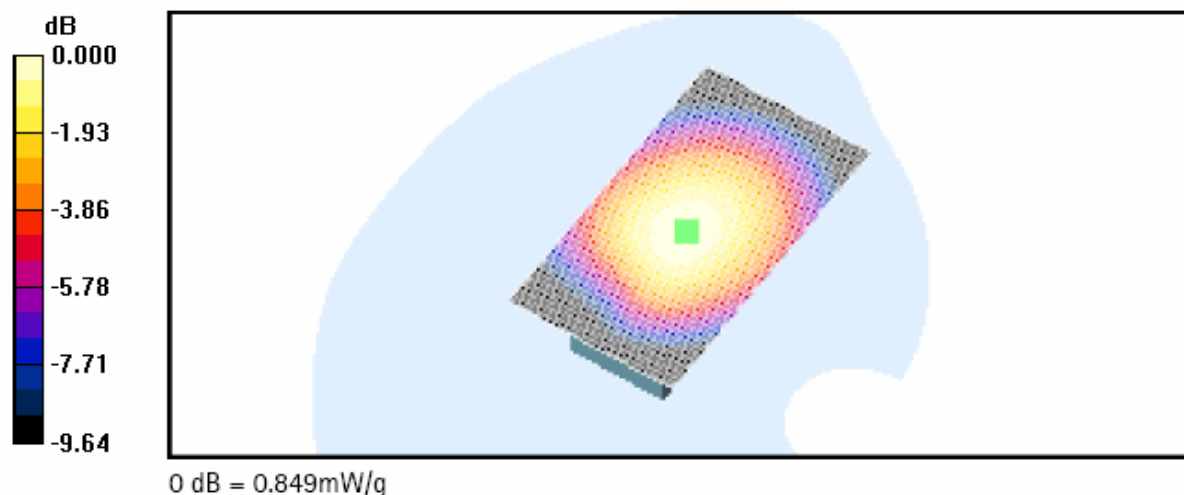
Reference Value = 18.8 V/m; Power Drift = -0.058 dB

Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.801 mW/g; SAR(10 g) = 0.576 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.849 mW/g



Date: 2006-04-24; Test Laboratory: TCC San Diego

Type: RM-193; HWID: 2001; Serial No: 026/03343387; with headset HS-3

Communication System: CDMA800; Channel: 384; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.52$ MHz; $\sigma = 0.952$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³;

Temperature (liq.) = 21.6 °C

Phantom section: Flat Section; **Advanced Extrapolation**

DASY4 Configuration:

- Probe: ET3DV6 - SN1792; ConvF(6.4, 6.4, 6.4); Calibrated: 2/21/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 12/12/2005
- Phantom: SAM2; Type: SAM; Serial: TP-1279
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.544 mW/g

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

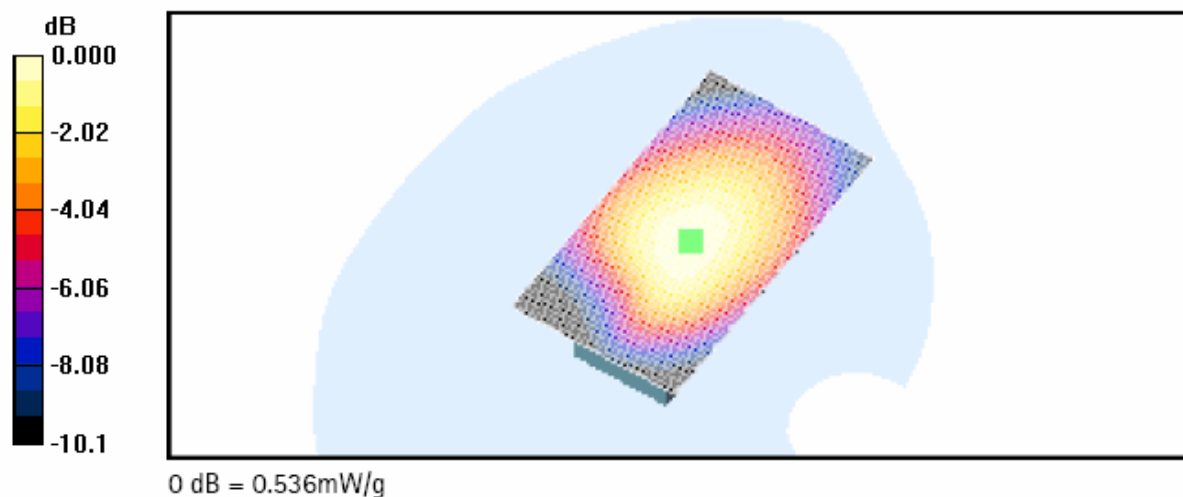
Reference Value = 15.5 V/m; Power Drift = 0.047 dB

Peak SAR (extrapolated) = 0.677 W/kg

SAR(1 g) = 0.507 mW/g; SAR(10 g) = 0.362 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.536 mW/g



Date: 2006-04-24; Test Laboratory: TCC San Diego

Type: RM-193; HWID: 2001; Serial No: 026/03343387; with headset HS-9

Communication System: CDMA800; Channel: 384; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.52$ MHz; $\sigma = 0.952$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³;

Temperature (liq.) = 21.6 °C

Phantom section: Flat Section; Advanced Extrapolation

DASY4 Configuration:

- Probe: ET3DV6 - SN1792; ConvF(6.4, 6.4, 6.4); Calibrated: 2/21/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 12/12/2005
- Phantom: SAM2; Type: SAM; Serial: TP-1279
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.801 mW/g

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

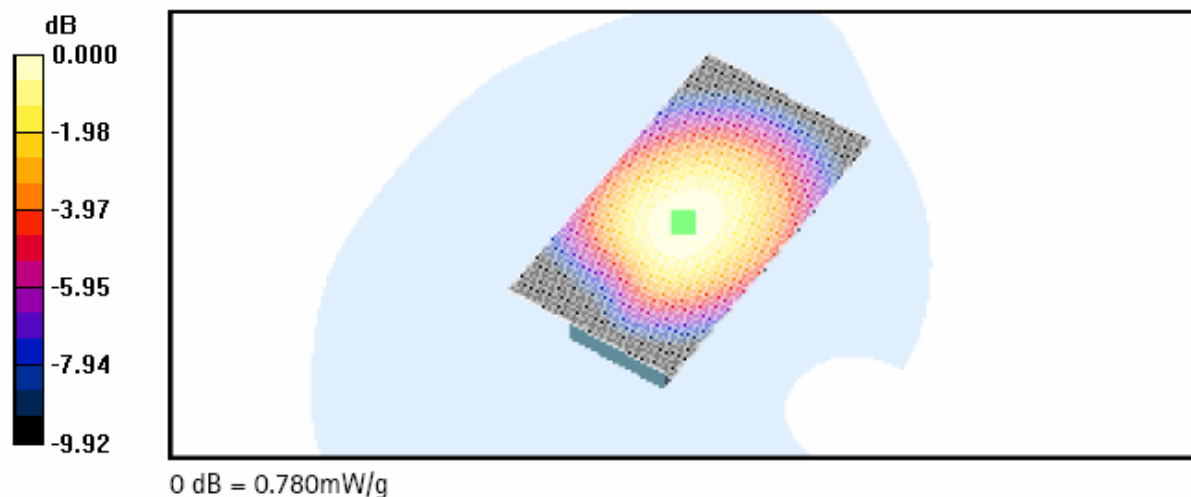
Reference Value = 18.0 V/m; Power Drift = -0.027 dB

Peak SAR (extrapolated) = 0.995 W/kg

SAR(1 g) = 0.743 mW/g; SAR(10 g) = 0.534 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.780 mW/g



Date: 2006-04-24; Test Laboratory: TCC San Diego

Type: RM-193; HWID: 2001; Serial No: 026/03343387; No headset with Bluetooth active

Communication System: CDMA800; Channel: 384; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.52$ MHz; $\sigma = 0.952$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³;

Temperature (liq.) = 21.6 °C

Phantom section: Flat Section; **Advanced Extrapolation**

DASY4 Configuration:

- Probe: ET3DV6 - SN1792; ConvF(6.4, 6.4, 6.4); Calibrated: 2/21/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 12/12/2005
- Phantom: SAM2; Type: SAM; Serial: TP-1279
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.862 mW/g

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

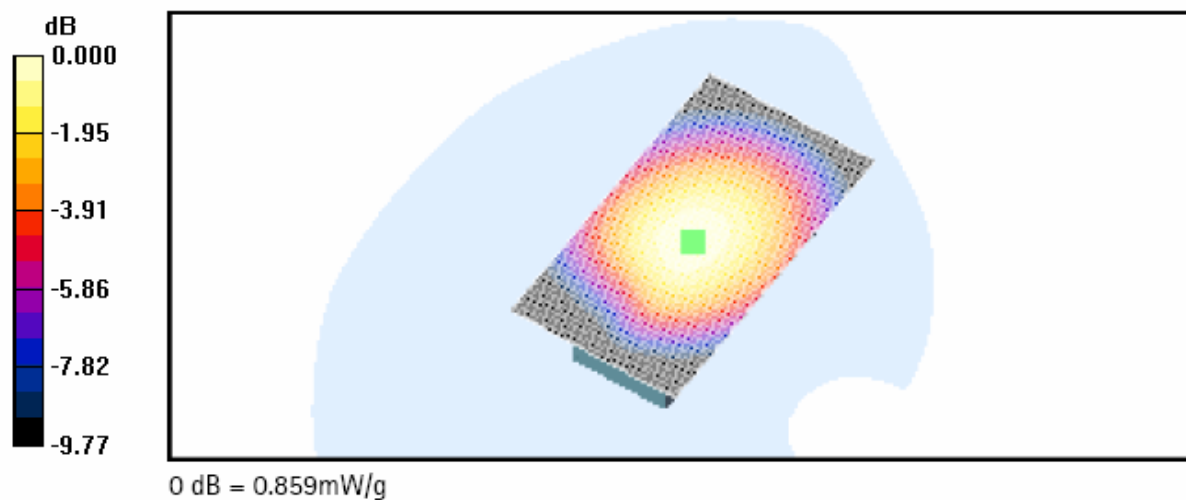
Reference Value = 18.1 V/m; Power Drift = -0.028 dB

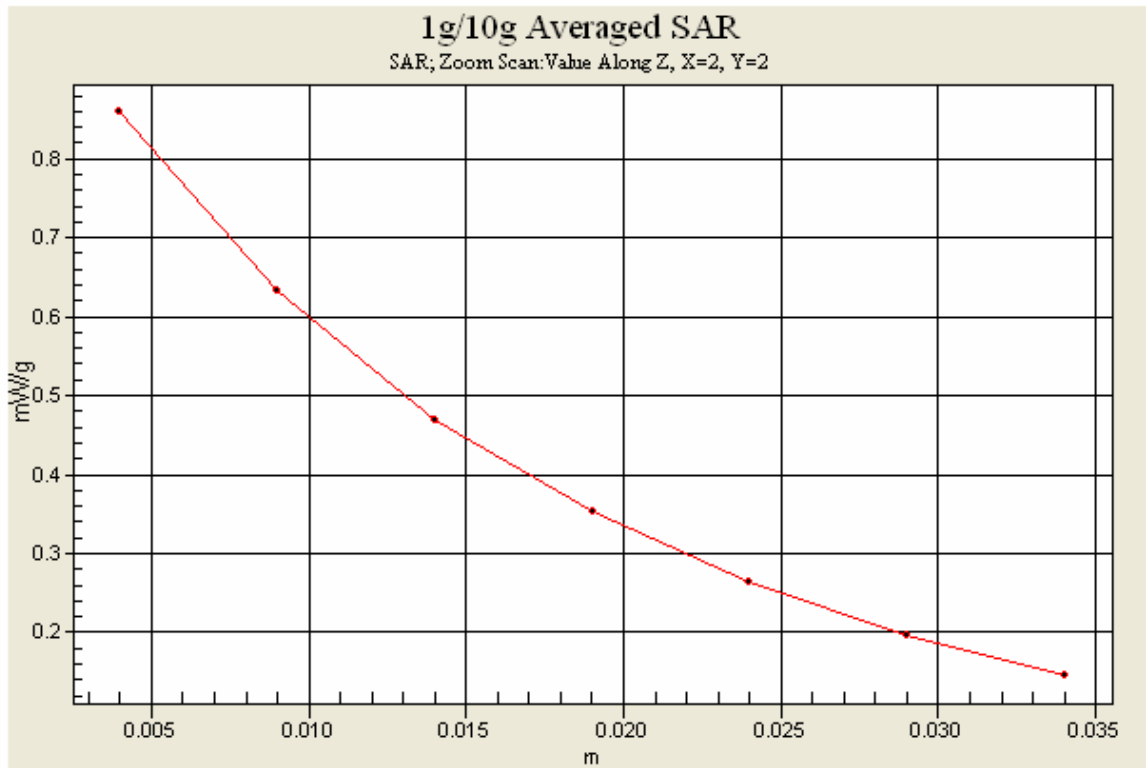
Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.805 mW/g; SAR(10 g) = 0.576 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.859 mW/g





Date: 2006-05-04; Test Laboratory: TCC San Diego

Type: RM-193; HWID: 2001; Serial No: 026/03343387; No headset

Communication System: CDMA1900 ; Channel: 600; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 51.8$; $\rho = 1000$ kg/m³; Temperature (liq.)
= 21.7 °C

Phantom section: Flat Section; **Advanced Extrapolation**

DASY4 Configuration:

- Probe: ET3DV6 - SN1792; ConvF(4.56, 4.56, 4.56); Calibrated: 2/21/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 12/12/2005
- Phantom: SAM2; Type: SAM; Serial: TP-1279
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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

Maximum value of SAR (interpolated) = 0.440 mW/g

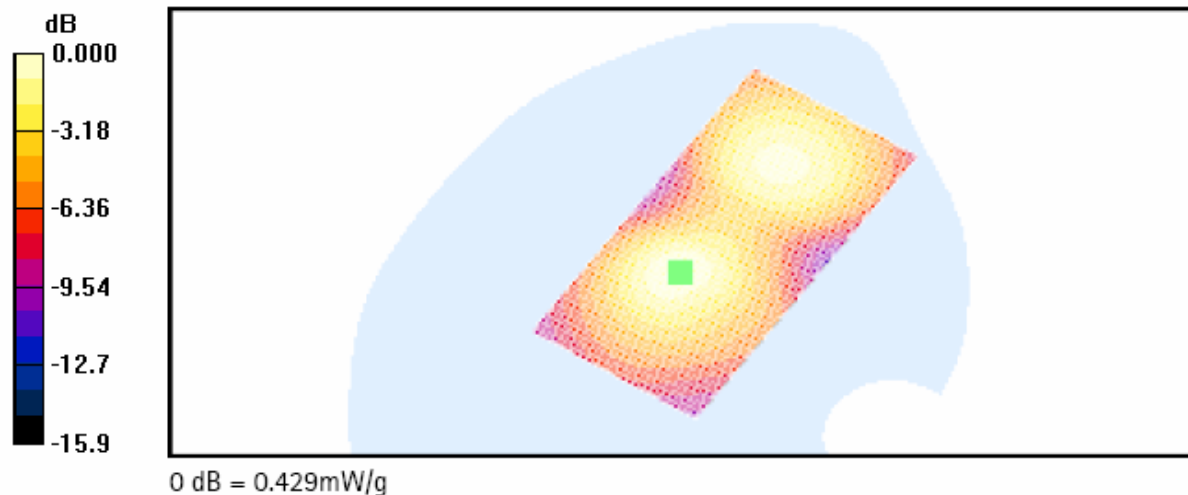
Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

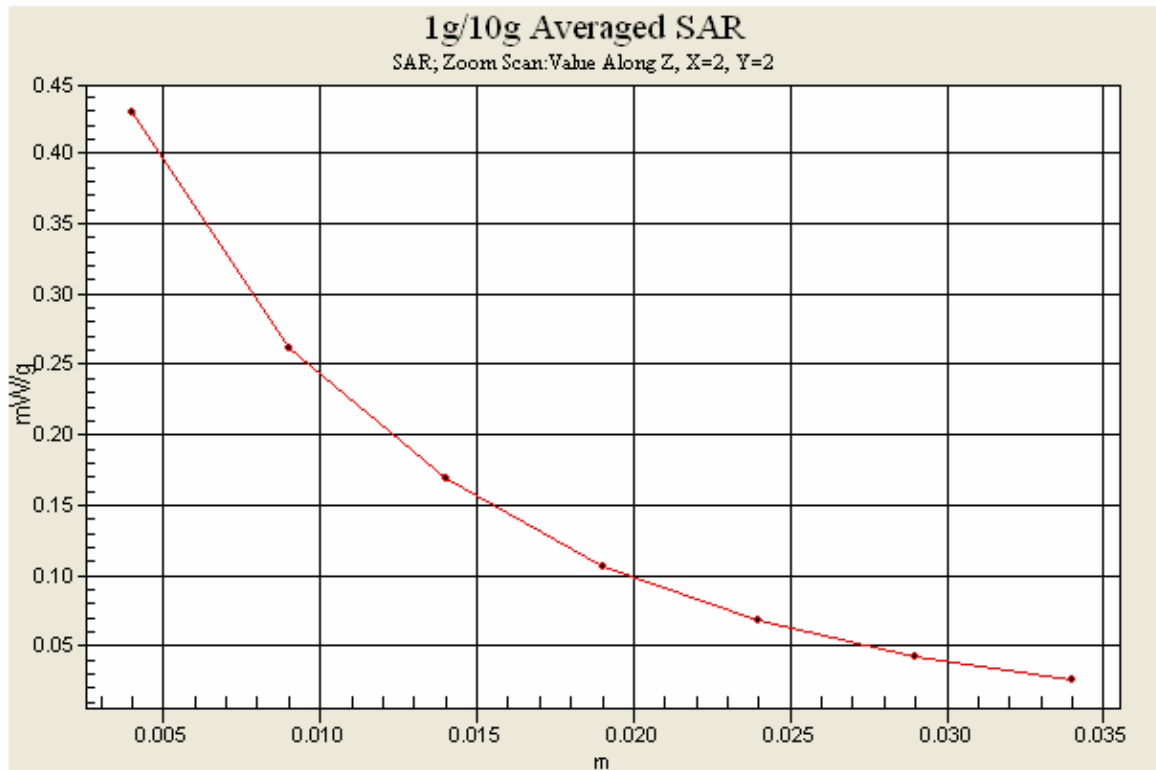
Reference Value = 14.5 V/m; Power Drift = -0.053 dB

Peak SAR (extrapolated) = 0.679 W/kg

SAR(1 g) = 0.398 mW/g; SAR(10 g) = 0.238 mW/g

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





Date: 2006-05-24; Test Laboratory: TCC San Diego

Type: RM-193; HWID: 2001; Serial No: 026/03343387; with headset HS-3

Communication System: CDMA1900; Channel: 600; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 51.8$; $\rho = 1000$ kg/m³; Temperature (liq.) = 21.7 °C

Phantom section: Flat Section; **Advanced Extrapolation**

DASY4 Configuration:

- Probe: ET3DV6 - SN1792; ConvF(4.56, 4.56, 4.56); Calibrated: 2/21/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 12/12/2005
- Phantom: SAM2; Type: SAM; Serial: TP-1279
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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

Maximum value of SAR (interpolated) = 0.409 mW/g

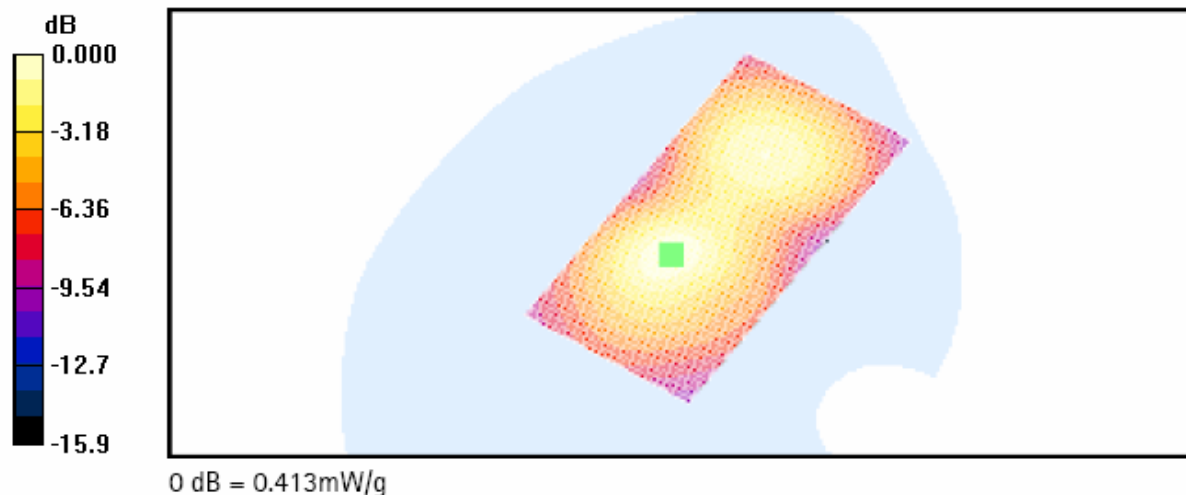
Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.7 V/m; Power Drift = -0.071 dB

Peak SAR (extrapolated) = 0.669 W/kg

SAR(1 g) = 0.381 mW/g; SAR(10 g) = 0.225 mW/g

Maximum value of SAR (measured) = 0.413 mW/g



Date: 2006-05-04; Test Laboratory: TCC San Diego

Type: RM-193; HWID: 2001; Serial No: 026/03343387; with headset HS-9

Communication System: CDMA1900; Channel: 600; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 51.8$; $\rho = 1000$ kg/m³; Temperature (liq.)
= 21.7 °C

Phantom section: Flat Section; **Advanced Extrapolation**

DASY4 Configuration:

- Probe: ET3DV6 - SN1792; ConvF(4.56, 4.56, 4.56); Calibrated: 2/21/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 12/12/2005
- Phantom: SAM2; Type: SAM; Serial: TP-1279
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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

Maximum value of SAR (interpolated) = 0.395 mW/g

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

Reference Value = 13.8 V/m; Power Drift = -0.040 dB

Peak SAR (extrapolated) = 0.626 W/kg

SAR(1 g) = 0.362 mW/g; SAR(10 g) = 0.215 mW/g

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

