



Sony Ericsson

REPORT

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Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 002 W760c 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked		A

Exhibit 11: SAR Test Report of Portable Cellular Phone FCC ID: PY7A1052101 Model : W760c

Date of test: April 7 – April 16, 2008
Date of Report: April 25, 2008

Laboratory: SAR Testing Laboratory Sony Ericsson Mobile Communications, Inc. 7001
 Development Drive, P.O. Box 13969, Research Triangle Park, NC, 27709, USA

Tested by: Rodney Dixon
 Eng. Technician IV, Product Verification Group

Test Responsible: Gerard Hayes 
 Technical Manager

Accreditation: This laboratory is accredited to ISO/IEC 17025-1999 to perform the following
 electromagnetic exposure tests:



Specific Absorption Rate (SAR)
 Dielectric parameters
 RF power measurement

A2LA Certificate
#1650-01

On the following types of products: Wireless communications devices.

**Statement of
 Compliance:**

Sony Ericsson Mobile Communications, Inc declares under its sole responsibility that portable cellular telephone FCC ID PY7A1052101 model W760c to which this declaration relates, is in conformity with the appropriate General Population/Uncontrolled RF exposure standards, recommendations and guidelines (FCC 47 CFR §2.1093). It also declares that the product was tested in accordance with the appropriate measurement standards, guidelines and recommended practices. Any deviations from these standards, guidelines and recommended practices are noted below:

(none)

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This test report shall not be reproduced except in full, without written approval of the laboratory.

The results and statements contained herein relate only to the items tested. The names of individuals involved may be mentioned only in connection with the statements or results from this report.

Sony Ericsson Mobile Communications encourages all feedback, both positive and negative, on this test report.

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1. Introduction

The Sony Ericsson SAR Laboratory has performed measurements of the maximum potential exposure to the user of portable cellular phone FCC ID PY7A1052101 model W760c. The Specific Absorption Rate (SAR) of this product was measured. The applicable RF safety guidelines and the SAR measurement specifications used for the test are described in [1].

2. Description of the Device Under Test

2.1 Antenna description

Type	Monopole	
Location	Chin Cover	
Dimensions	Width	40.0 mm
	Length	10.0 mm
	Height	8 mm

2.2 Device description

FCC ID Number / Device Model	PY7A1052101 / W760c	
Hardware Revision #	AP2	
Software Revision #	R3BA007	
Mode(s) of Operation Transmitting Frequency Range	Serial number of Device Tested	
	GSM/GPRS/EDGE 824-849 MHz	BD33000178
	GSM/GPRS/EDGE 1850-1910 MHz	BD3300016W
Production Unit or Identical Prototype (47 CFR §2.908)	Identical Prototype	
Device Category	Portable	
RF Exposure Limits	General Population / Uncontrolled	

GSM		850 MHz	1900 MHz
	Target Value and Factory Tolerance Window for Maximum Output Power Setting	f_{low}	31.77 dBm +0.53/-0.53 dB
		f_{mid}	29.25 dBm +0.75/-0.75 dB
		f_{high}	29.25 dBm +0.75/-0.75 dB
	Calibration Frequency (f_{low}, f_{mid}, f_{high}) Duty Cycle	f_{low} , f_{mid} , f_{high}	f_{low} , f_{mid} , f_{high}
		1/8	1/8



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Device description (continued)

GPRS		850 MHz	1900 MHz
Target Value and Factory Tolerance Window for Maximum Output Power Setting Calibration Frequency (f_{low}, f_{mid}, f_{high}) Duty Cycle	f_{low}	Same as GSM 1:8	Same as GSM 1:8
	f_{mid}	Same as GSM 1:8	Same as GSM 1:8
	f_{high}	Same as GSM 1:8	Same as GSM 1:8
	f_{low} , f_{mid} , f_{high}		f_{low} , f_{mid} , f_{high}
	1/4		1/4
EGPRS		850 MHz	1900 MHz
Target Value and Factory Tolerance Window for Maximum Output Power Setting Calibration Frequency (f_{low}, f_{mid}, f_{high}) Duty Cycle	f_{low}	27.0 dBm + 1.0/- 2.0 dB	26.0 dBm + 1.0/- 2.0 dB
	f_{mid}	27.0 dBm + 1.0/- 2.0 dB	26.0 dBm + 1.0/- 2.0 dB
	f_{high}	27.0 dBm + 1.0/- 2.0 dB	26.0 dBm + 1.0/- 2.0 dB
	f_{low} , f_{mid} , f_{high}		f_{low} , f_{mid} , f_{high}
	1/4		1/4



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3. Test Equipment Used

3.1 Dosimetric System

The Sony Ericsson SAR Laboratory utilizes Dosimetric Assessment Systems (Dasy4™) for adjacent to head and body-worn measurements manufactured by Schmid & Partner Engineering AG (SPEAG™), of Zurich Switzerland. The overall RSS uncertainty of the measurement system is $\pm 11.0\%$ (K=1) with an expanded uncertainty of $\pm 22.0\%$ (K=2) for Dasy4™. The measurement uncertainty budget is given in Appendix 5 for the system. The list of calibrated equipment used for the measurements is shown in the following table.

Description	Serial Number	Cal Due Date
DASY3 DAE V1	392	29-May-2008
DASY3 DAE V1	369	21-May-2008
DASY3 DAE V1	431	29-May-2008
E-Field Probe ETDV6	1538	23-May-2008
E-Field Probe ETDV6	1586	23-May-2008
E-Field Probe ETDV6	1587	23-May-2008
Dipole Validation Kit, DV835V2	438	21-May-2008
Dipole Validation Kit, DV1900V2	536	23-May-2008
S.A.M. Phantom used for 835MHz (Head)	1023/1251	
S.A.M. Phantom used for 835MHz (Body)	1031	
S.A.M. Phantom used for 1900MHz (Head)	1054/1335	
S.A.M. Phantom used for 1900MHz (Body)	1020	

3.2 Additional Equipment

Description	Serial Number	Cal Due Date
Signal Generator HP8648C	3443U00433	February 01, 2009
Power Meter 437B	3125U16382	December 06, 2008
Power Meter 437B	3125U16190	May 03, 2008
Power Sensor - 8482H	MY41090241	June 06, 2008
Power Sensor - 8482H	3318A09268	July 11, 2008
Dielectric Probe Kit HP85070B	US33020256	Sept. 12, 2008
Digital Thermometer 61220-601 And Probe (61220-604)	350078	November 19, 2008
Digital Hygrometer/ Thermometer	230355187	March 03, 2009
HP RF Amplifier 8347A	3307A1069	May 03, 2008



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4. Electrical parameters of the tissue simulating liquid

Prior to conducting SAR measurements, the relative permittivity, ϵ_r , and the conductivity, σ , of the tissue simulating liquids were measured with the dielectric probe kit. These values, along with the temperature of the simulated tissue are shown in the table below. A mass density of $\rho=1\text{g/cm}^3$ was entered into the system in all the cases. It can be seen that the measured parameters are within tolerance of the recommended limits [1]. The ambient temperature of the laboratory was maintained within the desired the range and the liquid depth above the ear reference points was above 15.0 cm in all the cases. It is seen that the measured parameters are satisfactory for compliance testing.

f (MHz)	Tissue type	Limits / Measured	Dielectric Parameters		
			ϵ_r	σ (S/m)	Simulated Tissue Temp (°C)
835	Head	April 7, 2008	40.82	0.906	21.6
		April 16, 2008	42.01	0.9171	21.6
		Recommended Limits	41.5	0.9	20-25
	Body	April 8, 2008	52.5	1.012	21.5
		Recommended Limits	55.2	0.97	20-25
1900	Head	April 9, 2008	38.21	1.442	21.9
		April 16, 2008	38.14	1.447	22.3
		Recommended Limits	40	1.4	20-25
	Body	April 7, 2008	51.53	1.56	21.5
		Recommended Limits	53.3	1.52	20-25

The list of ingredients and the percent composition used for the simulated tissue are indicated in the table below.

Ingredient	800/900 MHz Head	800MHz Body	1800/1900 MHz Head	1900MHz Body
	900MHz Body		1800MHz Body	
Sugar	57.99%	56.00%	--	--
DGBE	--	--	44.92%	30.82%
Water	39.72%	41.76%	54.90%	68.89%
Salt	1.18%	0.76%	0.18%	0.29%
HEC	0.92%	1.21%	--	--
Bact.	0.19%	0.27%	--	--



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5. System Accuracy Verification

A system accuracy verification of the DASY4 was performed using the measurement equipment listed in Section 3.1. 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 +/- 10% from the target SAR indicated on the dipole certification sheet. These tests were done at 835MHz/900MHz and/or 1800MHz/1900MHz. These frequencies are within 100MHz of the mid-band frequency of the test device, according to [1].

The test was conducted on the same days as the measurement of the DUT. The results from the system accuracy verification are displayed in the table below (SAR values are normalized to 1W forward power delivered to the dipole). The ambient temperature of the laboratory was maintained within the desired the range and the liquid depth above the ear reference points was above 15.0 cm in all the cases.

It is seen in the following table that the system is operating within its specification, as the results are within acceptable tolerance of the reference values. The SAR distributions for each dipole measurement are shown in Appendix 1.

<i>f</i> (MHz)	Tissue Type	Date Measured	SAR (W/kg)		Dielectric Parameters		Tissue Temp (°C)
			1g	10g	ϵ_r	σ (S/m)	
835	Head	Apr-07-08	9.02	5.87	40.82	0.91	21.6
		Apr-16-08	9.21	5.99	42.01	0.92	21.6
		Recommended Limits	9.50	6.20	41.50	0.90	20-25
	Body	Apr-08-08	10.06	6.60	52.5	1.01	21.5
		Recommended Limits	9.90	6.46	55.20	0.97	20-25
1900	Head	Apr-09-08	40.77	21.66	38.21	1.44	21.9
		Apr-16-08	41.56	21.90	38.14	1.45	22.3
		Recommended Limits	39.7	20.5	40	1.4	20-25
	Body	Apr-07-08	39.80	21.29	51.53	1.56	21.5
		Recommended Limits	40.5	20.89	53.3	1.52	20-25

Daily, prior to conducting tests, measurements were made with the RF sources powered off to determine the system noise level. The highest system noise was 0.00103 W/kg, which is below the recommended limit in [1].



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6.0 Test Results

For all measurements, the test sample was operated using a base station simulator (CMU-200) that allows control of the transmitter using the signally software that is installed on the phone. For the purposes of these tests, the unit is commanded to set to the proper channel, transmitter power level and transmit mode of operation. The phone was tested in the configurations stipulated in [1,2]. The phone was positioned into these configurations using the positioner supplied with the DASY4 SAR measurement system.

Simultaneous Transmitter (i.e. Bluetooth) Considerations

FCC Guidelines were derived from document Number: 648474 D02 SAR Policy Handsts Multi Xmitter Ant v01r01. Since a minimum antenna separation between the main antenna (bottom, rear of the phone) and Bluetooth antenna (top, left, rear section) antenna is 7 cm (i.e. >5 cm) and the maximum conducted Bluetooth power is 6mW, simultaneous SAR evaluation and stand-alone Bluetooth SAR evaluation are not required. All reported measurements were made with Bluetooth Off.

Approximate cellular and Bluetooth antenna locations of the handset are shown in the following figure:



Battery Considerations

The Cellular Phone FCC ID PY7A1052101 has one battery option, BKB 193 203 (BST-38). The phone was placed in the SAR measurement system with a fully charged battery for each measurement.

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6.1 Head Adjacent Test Results

The SAR results shown in Tables 1 through 4 are maximum SAR values averaged over 1 gram and 10 grams of phantom tissue. Also shown are the measured conducted output powers, the temperature of the test facility during the test, the temperature of the simulated tissue, the measured drift, and the extrapolated SAR. The extrapolated SAR corresponds to the measured SAR scaled to the maximum conducted output power.

The ambient temperature of the laboratory was maintained within the desired the range and the liquid depth above the ear reference points was above 15.0 cm in all the cases.

The test conditions indicated as bold numbers in the following tables are included in Appendix 2. All other test conditions measured lower SAR values than those included.



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 002 W760c 02	
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f(MHz)	Channel/ frequency	Conducted Output Power (dBm)	FCC ID PY7A1052101 with Standard Battery BST-38						
			Left Head (Cheek / Touch Position)					Ambient Temp (°C)	Simulate Temp (°C)
			GSM 1:8 Duty Cycle	Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		
800 GSM	128 / 824	32.2	0.17	0.12	-0.07	0.17	0.12	21.7	21.6
	189 / 837	32.2	0.19	0.14	-0.03	0.19	0.14		
	251 / 849	32.3	0.25	0.19	-0.03	0.25	0.19		
1900 GSM	512 / 1850	30.0	0.43	0.28	-0.16	0.43	0.28	22.2	21.9
	660/1880	30.0	0.41	0.26	0.02	0.41	0.26		
	810/1910	30.0	0.32	0.20	0.01	0.32	0.20		
f(MHz)	Channel/ frequency	Conducted Output Power (dBm)	FCC ID PY7A1052101 with Standard Battery BST-38						
			Left Head (15° Tilt Position)					Ambient Temp (°C)	Simulate Temp (°C)
			GSM 1:8 Duty Cycle	Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		
800 GSM	128 / 824	32.2						21.7	21.6
	189 / 837	32.2	0.12	0.08	0.03	0.12	0.08		
	251 / 849	32.3							
1900 GSM	512 / 1850	30.0						22.2	21.9
	660/1880	30.0	0.24	0.14	0.02	0.24	0.14		
	810/1910	30.0							

Table 1: SAR measurement results for the portable cellular telephone FCC ID PY7A1052101 model W760c at maximum output power with Standard Battery BST-38. Measured closed against the left head in GSM mode.



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f(MHz)	Channel/ frequency	Conducted Output Power (dBm)	FCC ID PY7A1052101 with Standard Battery BST-38						
			Right Head (Cheek / Touch Position)					Ambient Temp (°C)	Simulate Temp (°C)
			GSM 1:8 Duty Cycle	Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		
800 GSM	128 / 824	32.2	0.20	0.14	-0.02	0.20	0.14	21.8	21.6
	189 / 837	32.2	0.22	0.15	-0.01	0.22	0.15		
	251 / 849	32.3	0.29	0.20	-0.01	0.29	0.20		
1900 GSM	512 / 1850	30.0	0.53	0.31	0.00	0.53	0.31	22.1	21.9
	660/1880	30.0	0.50	0.29	0.02	0.50	0.29		
	810/1910	30.0	0.36	0.21	0.02	0.36	0.21		
f(MHz)	Channel/ frequency	Conducted Output Power (dBm)	FCC ID PY7A1052101 with Standard Battery BST-38						
			Right Head (15° Tilt Position)					Ambient Temp (°C)	Simulate Temp (°C)
			GSM 1:8 Duty Cycle	Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		
800 GSM	128 / 824	32.2						21.8	21.6
	189 / 837	32.2	0.12	0.09	-0.01	0.12	0.09		
	251 / 849	32.3							
1900 GSM	512 / 1850	30.0						22.1	21.9
	660/1880	30.0	0.20	0.12	0.05	0.20	0.12		
	810/1910	30.0							

Table 2: SAR measurement results for the portable cellular telephone FCC ID PY7A1052101 model W760c at maximum output power with Standard Battery BST-38. Measured closed against the right head in GSM mode.



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f(MHz)	Channel/ frequency	Conducted Output Power (dBm)	FCC ID PY7A1052101 with Standard Battery BST-38						
			Left Head (Cheek / Touch Position)					Ambient Temp (°C)	Simulate Temp (°C)
			GSM 1:8 Duty Cycle	Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		
800 GSM	128 / 824	32.2	0.26	0.20	0.00	0.26	0.20	21.7	21.6
	189 / 837	32.2	0.28	0.21	0.01	0.28	0.21		
	251 / 849	32.3	0.35	0.26	0.00	0.35	0.26		
1900 GSM	512 / 1850	30.0	0.47	0.28	0.02	0.47	0.28	22.6	22.3
	660/1880	30.0	0.40	0.24	0.03	0.40	0.24		
	810/1910	30.0	0.29	0.17	0.11	0.29	0.17		
f(MHz)	Channel/ frequency	Conducted Output Power (dBm)	FCC ID PY7A1052101 with Standard Battery BST-38						
			Left Head (15° Tilt Position)					Ambient Temp (°C)	Simulate Temp (°C)
			GSM 1:8 Duty Cycle	Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		
800 GSM	128 / 824	32.2						21.7	21.6
	189 / 837	32.2	0.16	0.12	0.03	0.16	0.12		
	251 / 849	32.3							
1900 GSM	512 / 1850	30.0						22.6	22.3
	660/1880	30.0	0.13	0.07	-0.03	0.13	0.07		
	810/1910	30.0							

Table 3: SAR measurement results for the portable cellular telephone FCC ID PY7A1052101 model W760c at maximum output power with Standard Battery BST-38. Measured open against the left head in GSM mode.



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f(MHz)	Channel/ frequency	Conducted Output Power (dBm)	FCC ID PY7A1052101 with Standard Battery BST-38						
			Right Head (Cheek / Touch Position)						
			GSM 1:8 Duty Cycle	Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		Ambient Temp (°C)
800 GSM	128 / 824	32.2	0.27	0.20	-0.01	0.27	0.20	21.8	21.6
	189 / 837	32.2	0.26	0.19	0.00	0.26	0.19		
	251 / 849	32.3	0.33	0.24	-0.06	0.33	0.24		
1900 GSM	512 / 1850	30.0	0.33	0.21	-0.10	0.33	0.21	22.6	22.3
	660/1880	30.0	0.30	0.20	-0.03	0.30	0.20		
	810/1910	30.0	0.21	0.14	0.07	0.21	0.14		
f(MHz)	Channel/ frequency	Conducted Output Power (dBm)	FCC ID PY7A1052101 with Standard Battery BST-38						
			Right Head (15° Tilt Position)						
			GSM 1:8 Duty Cycle	Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		Ambient Temp (°C)
800 GSM	128 / 824	32.2						21.8	21.6
	189 / 837	32.2	0.16	0.12	0.04	0.16	0.12		
	251 / 849	32.3							
1900 GSM	512 / 1850	30.0						22.6	22.3
	660/1880	30.0	0.15	0.09	-0.03	0.15	0.09		
	810/1910	30.0							

Table 4: SAR measurement results for the portable cellular telephone FCC ID PY7A1052101 model W760c at maximum output power with Standard Battery BST-38. Measured open against the right head in GSM mode.



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6.2 Body-Worn Test Results

The SAR results shown in Tables 5 and 6 are the maximum SAR values averaged over 1gram and 10 grams of phantom tissue. Also shown are the measured conducted output powers, the temperature of the test facility during the test, the temperature of the simulated tissue after the test, the measured drift and the extrapolated SAR. The extrapolated SAR corresponds to the measured SAR scaled to the maximum conducted output power.

A “flat” phantom was used for the body-worn tests. This “flat” phantom corresponds to the flat portion of the SAM phantom.

The ambient temperature of the laboratory was maintained within the desired the range and the liquid depth above the ear reference points was above 15.0 cm in all the cases.

The same device holder described in section 6 was used for positioning the phone. The cellular phone was tested with a headset (HBP-20) connected to the device for all body-worn SAR measurements.

The following body-worn accessories were tested for this phone:

- 15 mm spacer
- ICE30 Carry Case

A full data set output of the test conditions with the highest SAR values is included as Appendix 3. These test conditions included are indicated as bold numbers in the following tables. All other test conditions measured lower SAR values than those included.



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f(MHz)	Operating Condition	Channel/ frequency	Conducted Output Power (dBm)	Body Worn						
				15mm SPACER					Ambient Temp (°C)	Simulate Temp (°C)
				Measured (W/kg) 1g / 10g	Drift (dB)	Extrapolated (W/kg) 1g / 10g				
Back of phone facing body										
800 GSM	2:8 Duty Cycle	128 / 824	32.2	0.51	0.36	-0.01	0.51	0.36	21.6	21.5
		189 / 837	32.2	0.57	0.40	0.03	0.57	0.40		
		251 / 849	32.3	0.68	0.48	0.00	0.68	0.48		
1900 GSM	2:8 Duty Cycle	512 / 1850	30.0	0.63	0.37	-0.09	0.63	0.37	21.4	21.5
		660/1880	30.0	0.61	0.36	0.00	0.61	0.36		
		810/1910	30.0	0.46	0.27	0.03	0.46	0.27		
Front of phone facing body										
800 GSM	2:8 Duty Cycle	128 / 824	32.2						21.6	21.5
		189 / 837	32.2	0.26	0.19	0.01	0.26	0.19		
		251 / 849	32.3							
1900 GSM	2:8 Duty Cycle	512 / 1850	30.0						21.7	21.6
		660/1880	30.0	0.27	0.17	-0.09	0.27	0.17		
		810/1910	30.0							

Table 5: SAR measurement results for the portable cellular telephone FCC ID PY7A1052101 model W760c at maximum output power with Standard Battery BST-38. Measured with GSM/GPRS Mode.



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f(MHz)	Operating Condition	Channel/ frequency	Conducted Output Power (dBm)	Body Worn						
				Carry Accessory: ICE30						
				Measured (W/kg) 1g / 10g	Drift (dB)	Extrapolated (W/kg) 1g / 10g	Ambient Temp (°C)	Simulate Temp (°C)		
Back of phone facing body										
800 GSM	2:8 Duty Cycle	128 / 824	32.2	0.51	0.36	-0.03	0.51	0.36	21.5	21.4
		189 / 837	32.2	0.57	0.40	-0.03	0.57	0.40		
		251 / 849	32.3	0.72	0.51	-0.05	0.72	0.51		
1900 GSM	2:8 Duty Cycle	512 / 1850	30.0	0.50	0.30	-0.02	0.50	0.30	21.3	21.4
		660/1880	30.0	0.47	0.28	-0.01	0.47	0.28		
		810/1910	30.0	0.35	0.21	-0.04	0.35	0.21		
Front of phone facing body										
800 GSM	2:8 Duty Cycle	128 / 824	32.2						21.5	21.4
		189 / 837	32.2	0.29	0.21	0.00	0.29	0.21		
		251 / 849	32.3							
1900 GSM	2:8 Duty Cycle	512 / 1850	30.0						21.6	21.5
		660/1880	30.0	0.18	0.12	-0.05	0.18	0.12		
		810/1910	30.0							

Table 6: SAR measurement results for the portable cellular telephone FCC ID PY7A1052101 model W760c at maximum output power with Standard Battery BST-38. Measured with GSM/GPRS Mode.

**Sony Ericsson**

REPORT

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Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 002 W760c 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	A	

References

- [1] FCC, "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields: Additional Information for Evaluating Compliance of Mobile and Portable Devices with FCC Limits for Human Exposure to Radiofrequency Emissions," Supplement C (Edition 01-01) to OET Bulletin 65 (Edition 97-01).
- [2] IEEE, "Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques," Std 1528-200X, Draft 6.5 – August 20, 2001.

APPLICANT: Sony Ericsson Mobile Communications Inc.

FCC ID: **PY7A1052101**



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Appendix 1

SAR distribution comparison for the system accuracy verification



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 002 W760c 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked		A

835 MHz SAR Distribution of Validation Dipole Antenna

System Performance Check (Using head tissue).

Validation_835Head_429_1251_07Apr08_T01File Name: [Validation_835Head_429_1251_07Apr08_T01.da4](#)

Phantom: SAM with CRP (Low Band Head) Phantom section: Flat Section

Probe: ET3DV6 - SN1586ConvF(6.63, 6.63, 6.63) Duty Cycle: 1:1 Frequency: 835 MHz

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.906 \text{ mho/m}$; $\epsilon_r = 40.8$; $\rho = 1000 \text{ kg/m}^3$

Measurement Standard: DASY4 (High Precision Assessment)

Dipole at 10 mm/Area Scan (61x61x1):Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.978 mW/g

Dipole at 10 mm/Zoom Scan (7x7x7)/Cube 0:Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 34.1 V/m; Power Drift = -0.007 dB

Peak SAR (extrapolated) = 1.38 W/kg

SAR(1 g) = 0.914 mW/g; SAR(10 g) = 0.593 mW/g

Maximum value of SAR (measured) = 0.990 mW/g

Dipole at 10 mm/Zoom Scan 2 (7x7x7)/Cube 0:Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 34.1 V/m; Power Drift = -0.007 dB

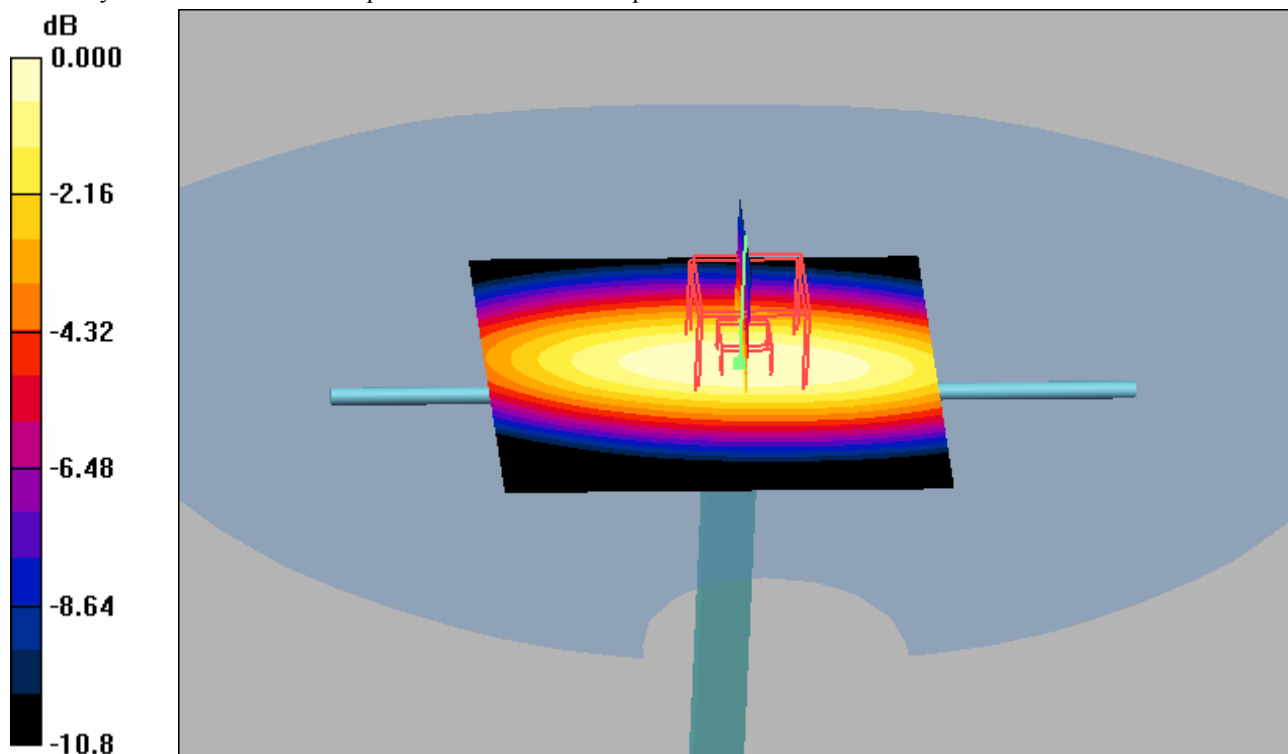
Peak SAR (extrapolated) = 1.34 W/kg

SAR(1 g) = 0.889 mW/g; SAR(10 g) = 0.580 mW/g

Maximum value of SAR (measured) = 0.955 mW/g

Procedure Notes: Pin: before 100 mW / after 99.8 mW

Humidity - 36.4 % Ambient Temp - 21.7 C Simulant Temp - 21.6 C



0 dB = 0.955mW/g



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Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 002 W760c 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked		A

835 MHz SAR Distribution of Validation Dipole Antenna**System Performance Check (Using head tissue).****Validation_835Head_429_1251_16Apr08_T01**File Name: [Validation_835Head_429_1251_16Apr08_T01.da4](#)

Phantom: SAM with CRP (Low Band Head) Phantom section: Flat Section

Probe: ET3DV6 - SN1586ConvF(6.63, 6.63, 6.63) Duty Cycle: 1:1 Frequency: 835 MHz

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.917 \text{ mho/m}$; $\epsilon_r = 42$; $\rho = 1000 \text{ kg/m}^3$

Measurement Standard: DASY4 (High Precision Assessment)

Dipole at 10 mm/Area Scan (61x61x1):Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.973 mW/g

Dipole at 10 mm/Zoom Scan (7x7x7)/Cube 0:Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 33.5 V/m; Power Drift = 0.034 dB

Peak SAR (extrapolated) = 1.37 W/kg

SAR(1 g) = 0.910 mW/g; SAR(10 g) = 0.592 mW/g

Maximum value of SAR (measured) = 0.981 mW/g

Dipole at 10 mm/Zoom Scan 2 (7x7x7)/Cube 0:Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 33.5 V/m; Power Drift = 0.034 dB

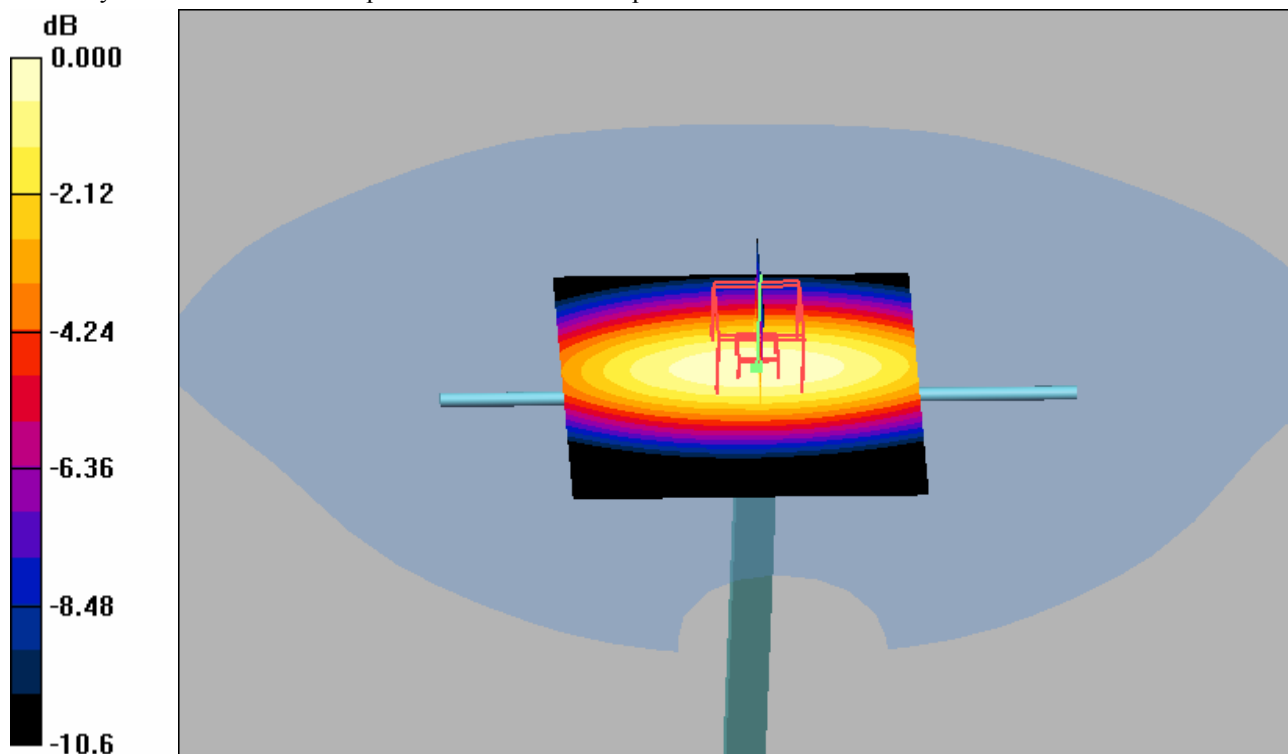
Peak SAR (extrapolated) = 1.37 W/kg

SAR(1 g) = 0.918 mW/g; SAR(10 g) = 0.598 mW/g

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

Procedure Notes: Pin: before 99.3 mW / after 99.2 mW

Humidity - 36.4 % Ambient Temp - 21.7 C Simulant Temp - 21.6 C



0 dB = 0.985mW/g



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Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 002 W760c 02	
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835 MHz SAR Distribution of Validation Dipole Antenna

System Performance Check (Using body tissue).

Validation_835Body_429_1031_08Apr08_T01File Name: [Validation_835Body_429_1031_08Apr08_T01.da4](#)

Phantom: SAM with CRP (Low Band Body) Phantom section: Flat Section

Probe: ET3DV6 - SN1587ConvF(6.55, 6.55, 6.55) Duty Cycle: 1:1 Frequency: 835 MHz

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 1.01 \text{ mho/m}$; $\epsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$

Measurement Standard: DASY4 (High Precision Assessment)

Dipole at 10 mm/Area Scan (61x61x1):Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Dipole at 10 mm/Zoom Scan (7x7x7)/Cube 0:Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 33.9 V/m; Power Drift = 0.003 dB

Peak SAR (extrapolated) = 1.49 W/kg

SAR(1 g) = 1.01 mW/g; SAR(10 g) = 0.662 mW/g

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

Dipole at 10 mm/Zoom Scan 2 (7x7x7)/Cube 0:Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 33.9 V/m; Power Drift = 0.003 dB

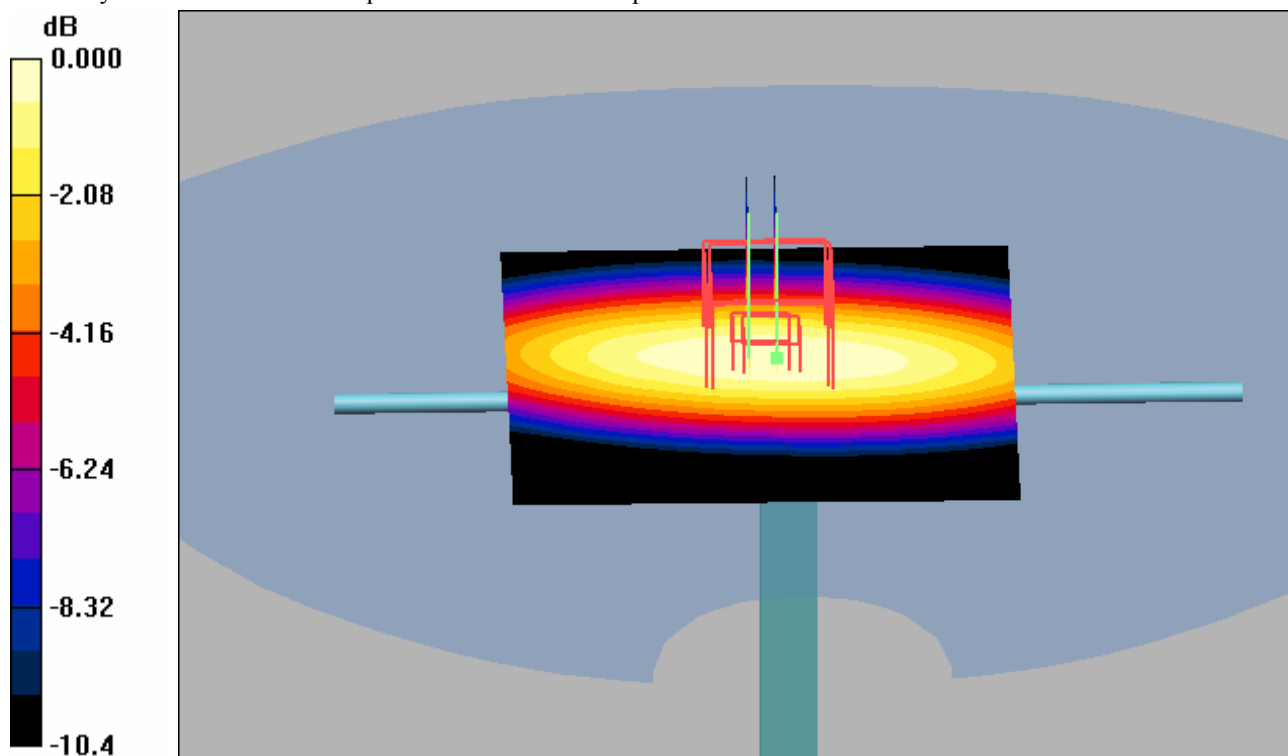
Peak SAR (extrapolated) = 1.46 W/kg

SAR(1 g) = 1 mW/g; SAR(10 g) = 0.657 mW/g

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

Procedure Notes: Pin: before 100.1 mW / after 99.7 mW

Humidity - 37.4 % Ambient Temp - 21.6 C Simulant Temp - 21.5 C



0 dB = 1.08mW/g



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1900 MHz SAR Distribution of Validation Dipole Antenna**System Performance Check (Using head tissue).****Validation 1900Head 536 1335 09Apr08 T01**File Name: [Validation 1900Head 536 1335 09Apr08 T01.da4](#)

Phantom: SAM with CRP (High Band Head) Phantom section: Flat Section

Probe: ET3DV6 - SN1538ConvF(4.89, 4.89, 4.89) Duty Cycle: 1:1 Frequency: 1900 MHz

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Dipole at 10 mm/Area Scan (61x61x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 5.35 mW/g

Dipole at 10 mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 60.7 V/m; Power Drift = 0.029 dB

Peak SAR (extrapolated) = 7.11 W/kg

SAR(1 g) = 4.08 mW/g; SAR(10 g) = 2.18 mW/g

Maximum value of SAR (measured) = 4.69 mW/g

Dipole at 10 mm/Zoom Scan 2 (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 60.7 V/m; Power Drift = 0.029 dB

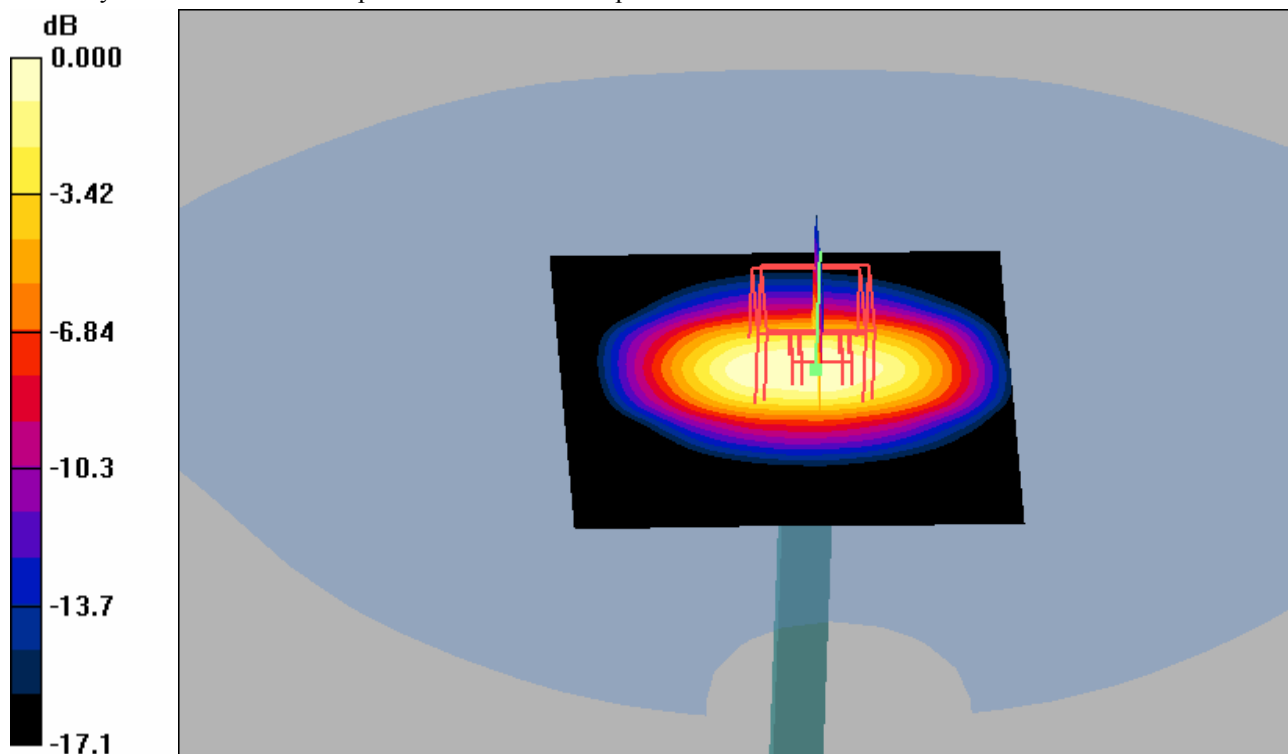
Peak SAR (extrapolated) = 7.10 W/kg

SAR(1 g) = 4.07 mW/g; SAR(10 g) = 2.15 mW/g

Maximum value of SAR (measured) = 4.65 mW/g

Procedure Notes: Pin: before 99.9 mW / after 100 mW

Humidity: 37.4 % Ambient Temp: 22.2 C Simulant Temp: 21.9 C



0 dB = 4.65mW/g



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Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 002 W760c 02	
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1900 MHz SAR Distribution of Validation Dipole Antenna

System Performance Check (Using head tissue).

Validation 1900Head 536 1335 16Apr08 T01File Name: [Validation 1900Head 536 1335 16Apr08 T01.da4](#)

Phantom: SAM with CRP (High Band Head) Phantom section: Flat Section

Probe: ET3DV6 - SN1538ConvF(4.89, 4.89, 4.89)Duty Cycle: 1:1Frequency: 1900 MHz

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 38.1$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Dipole at 10 mm/Area Scan (61x61x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 5.24 mW/g

Dipole at 10 mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 59.2 V/m; Power Drift = 0.039 dB

Peak SAR (extrapolated) = 7.34 W/kg

SAR(1 g) = 4.22 mW/g; SAR(10 g) = 2.22 mW/g

Maximum value of SAR (measured) = 4.77 mW/g

Dipole at 10 mm/Zoom Scan 2 (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 59.2 V/m; Power Drift = 0.039 dB

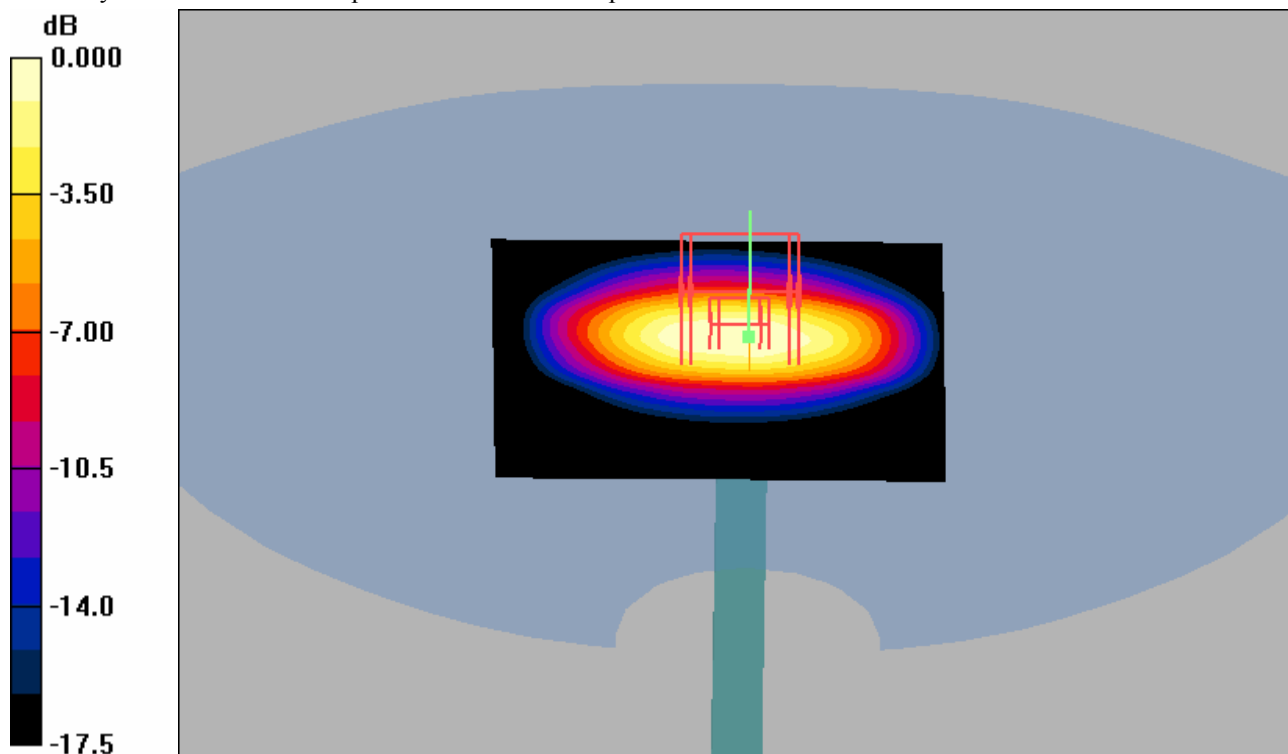
Peak SAR (extrapolated) = 7.17 W/kg

SAR(1 g) = 4.13 mW/g; SAR(10 g) = 2.18 mW/g

Maximum value of SAR (measured) = 4.72 mW/g

Procedure Notes: Pin: before 99.9 mW / after 101 mW

Humidity: 31.7% Ambient Temp: 22.6 C Simulant Temp: 22.3 C



0 dB = 4.72mW/g



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1900 MHz SAR Distribution of Validation Dipole Antenna**System Performance Check (Using body tissue).****Validation_1900Body_537_1020_07Apr08_T01**File Name: [Validation_1900Body_537_1020_07Apr08_T01.da4](#)

Phantom: SAM with CRP (High Band Body) Phantom section: Flat Section

Probe: ET3DV6 - SN1587ConvF(4.76, 4.76, 4.76) Duty Cycle: 1:1 Frequency: 1900 MHz

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Dipole at 10 mm/Area Scan (61x61x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 5.02 mW/g

Dipole at 10 mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 50.7 V/m; Power Drift = 0.011 dB

Peak SAR (extrapolated) = 6.88 W/kg

SAR(1 g) = 4.02 mW/g; SAR(10 g) = 2.15 mW/g

Maximum value of SAR (measured) = 4.48 mW/g

Dipole at 10 mm/Zoom Scan 2 (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 50.7 V/m; Power Drift = 0.011 dB

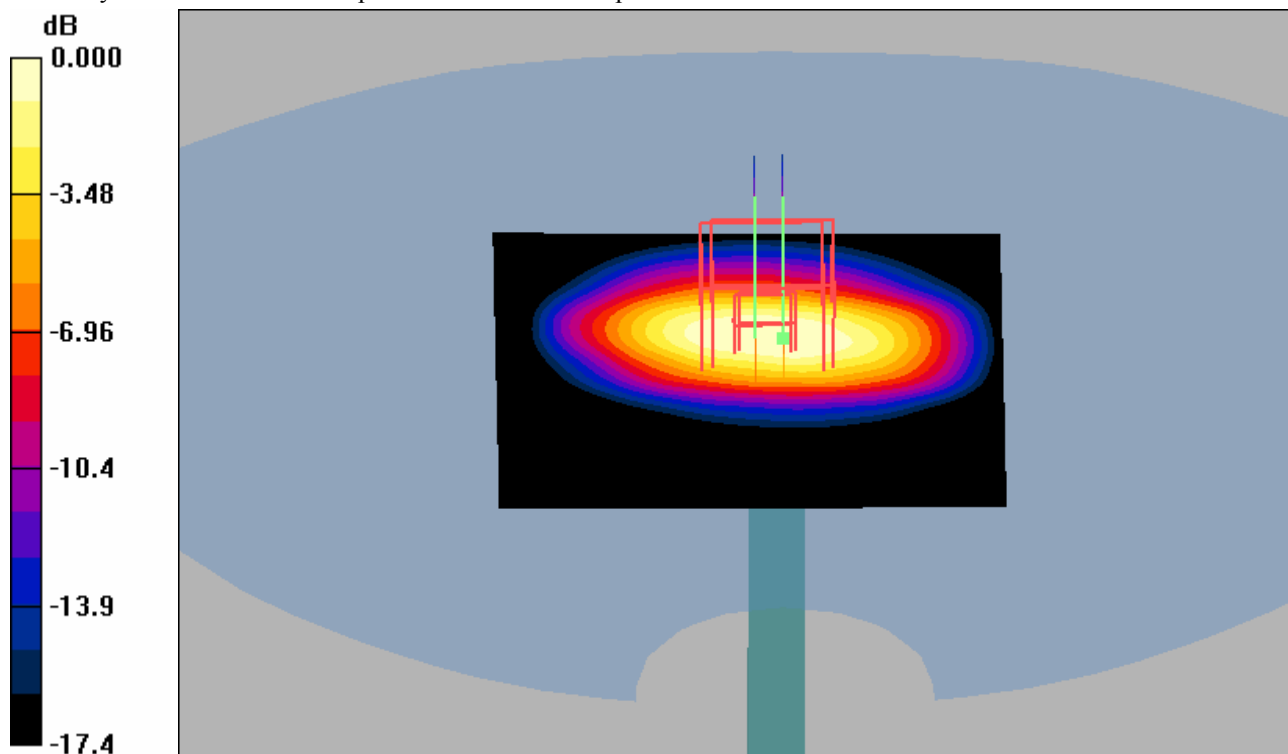
Peak SAR (extrapolated) = 6.80 W/kg

SAR(1 g) = 3.98 mW/g; SAR(10 g) = 2.13 mW/g

Maximum value of SAR (measured) = 4.52 mW/g

Procedure Notes: Pin: before 100 mW / after 101 mW

Humidity: 39.7 % Ambient Temp: 21.4 C Simulant Temp: 21.5 C



0 dB = 4.52mW/g

APPLICANT: Sony Ericsson Mobile Communications Inc.

FCC ID: **PY7A1052101**



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Appendix 2

SAR distribution plots for Phantom Head Adjacent Use



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Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 002 W760c 02	
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800 GSM Band: SAR Distribution and Extrapolation of Maximum SAR**Model: W760c with Standard Battery: BST-38, Right Cheek Position.**

Date/Time: 4/7/2008 9:45:37 AM

File Name: [07Apr08_W760c_GSM850_0178_RC01.da4](#)**DUT: W760c closed**

Phantom: SAM with CRP (Low Band Head) Phantom section: Right Section

Probe: ET3DV6 - SN1586 ConvF(6.63, 6.63, 6.63)

Medium parameters used (interpolated): $f = 849$ MHz; $\sigma = 0.92$ mho/m; $\epsilon_r = 40.6$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery BST-38 Humidity - 37.5 % Ambient Temp - 21.8 C Simulant Temp - 21.6 C

DASY4 Configuration:

- Probe: ET3DV6 - SN1586; ConvF(6.63, 6.63, 6.63); Calibrated: 5/23/2007

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn369; Calibrated: 5/29/2007

- Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Unnamed procedure 3/Area Scan (51x81x1):

Measurement grid: dx=15mm, dy=15mm

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

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

Unnamed procedure 3/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.07 V/m; Power Drift = -0.008 dB

Peak SAR (extrapolated) = 0.405 W/kg

SAR(1 g) = 0.285 mW/g; SAR(10 g) = 0.202 mW/g[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.303 mW/g

Unnamed procedure 3/Zoom Scan (31x31x36)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.07 V/m; Power Drift = -0.008 dB

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

Maximum value of SAR (interpolated) = 0.405 mW/g

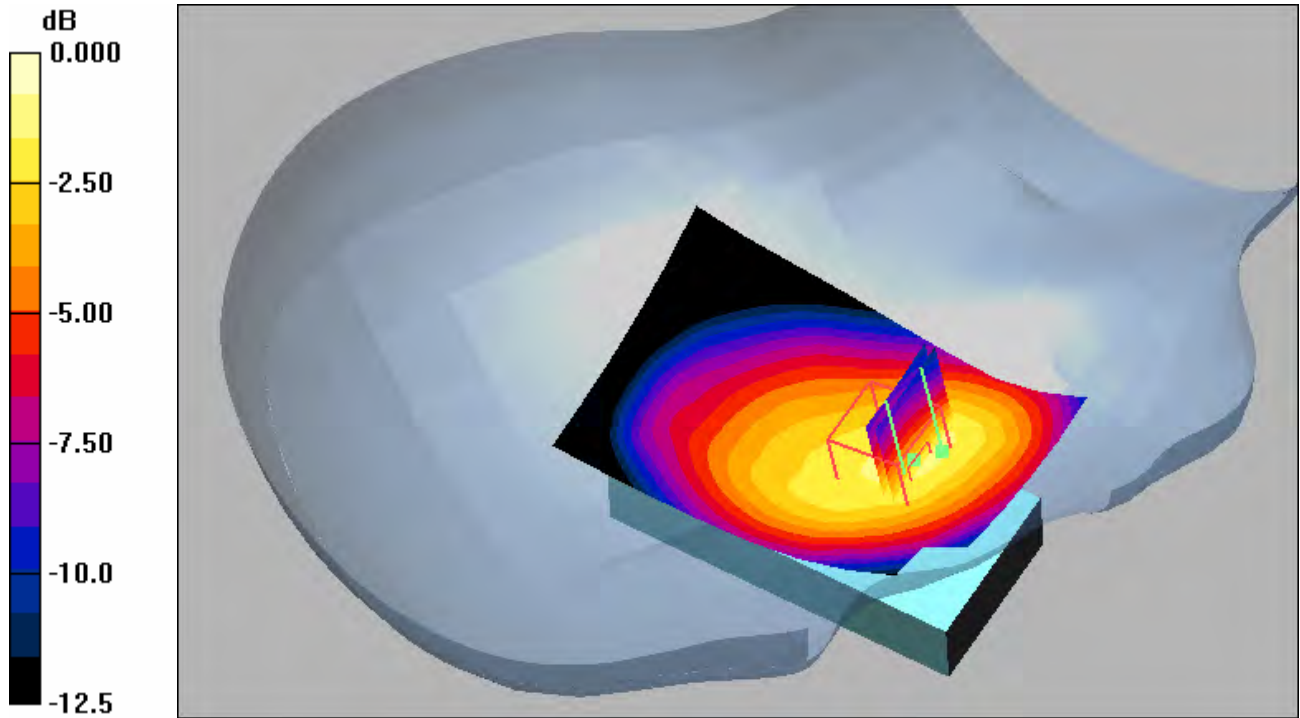


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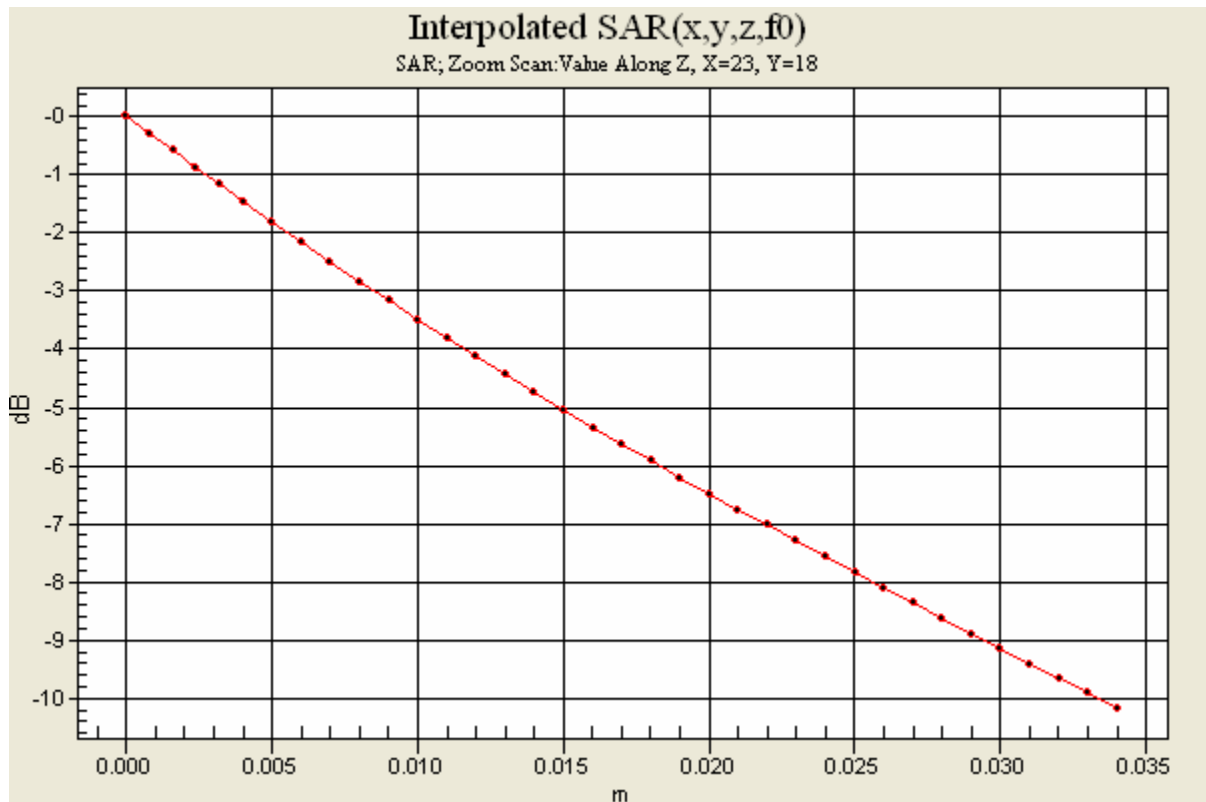
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0 dB = 0.405mW/g





Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 002 W760c 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	A	

800 GSM Band: Distribution and Extrapolation of Maximum SAR**Model: W760c with Standard Battery: BST-38, Right Tilt Position.**

Date/Time: 4/7/2008 10:12:22 AM

File Name: [07Apr08_W760c_GSM850_0178_RT01.da4](#)**DUT: W760c closed**

Phantom: SAM with CRP (Low Band Head) Phantom section: Right Section

Probe: ET3DV6 - SN1586 ConvF(6.63, 6.63, 6.63)

Medium parameters used (interpolated): $f = 836$ MHz; $\sigma = 0.907$ mho/m; $\epsilon_r = 40.8$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery BST-38 Humidity - 37.5 % Ambient Temp - 21.8 C Simulant Temp - 21.6 C

DASY4 Configuration:

- Probe: ET3DV6 - SN1586; ConvF(6.63, 6.63, 6.63); Calibrated: 5/23/2007

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn369; Calibrated: 5/29/2007

- Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Unnamed procedure 2/Area Scan (51x81x1):

Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.127 mW/g

Unnamed procedure 2/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.72 V/m; Power Drift = -0.007 dB

Peak SAR (extrapolated) = 0.156 W/kg

SAR(1 g) = 0.122 mW/g; SAR(10 g) = 0.090 mW/g[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.128 mW/g

Unnamed procedure 2/Zoom Scan (31x31x36)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.72 V/m; Power Drift = -0.007 dB

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

Maximum value of SAR (interpolated) = 0.156 mW/g

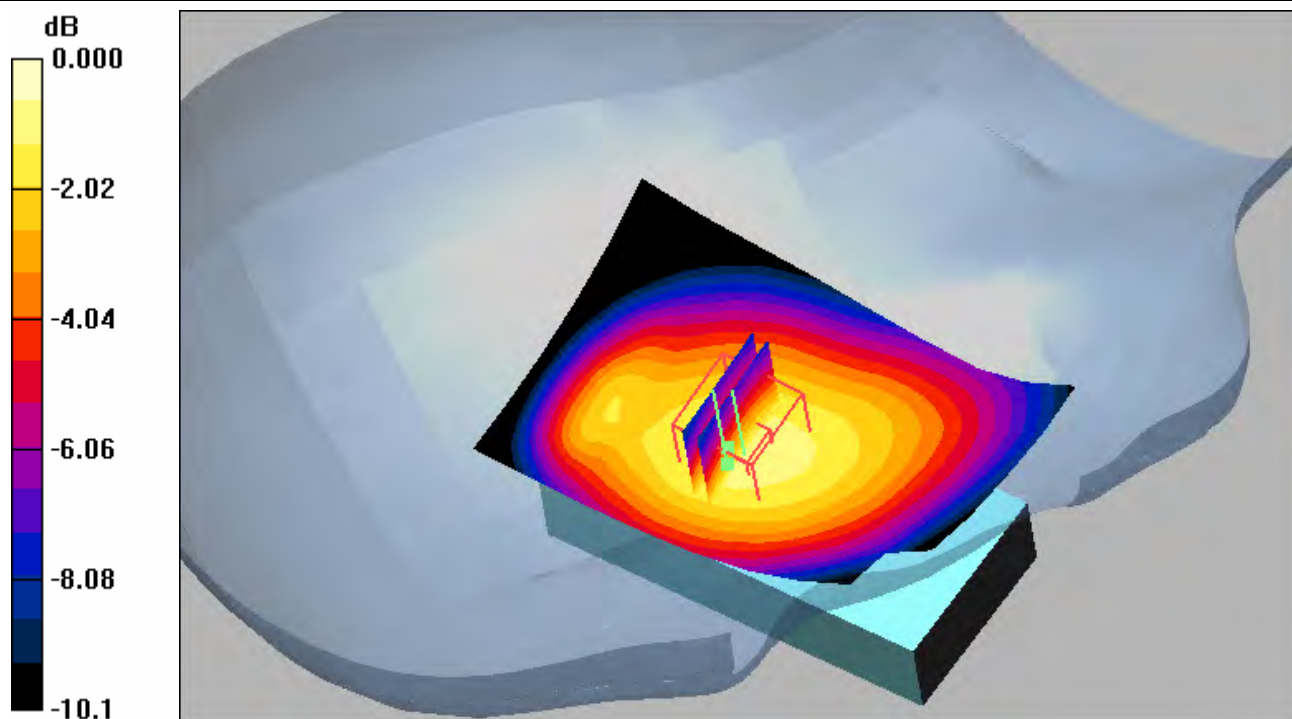


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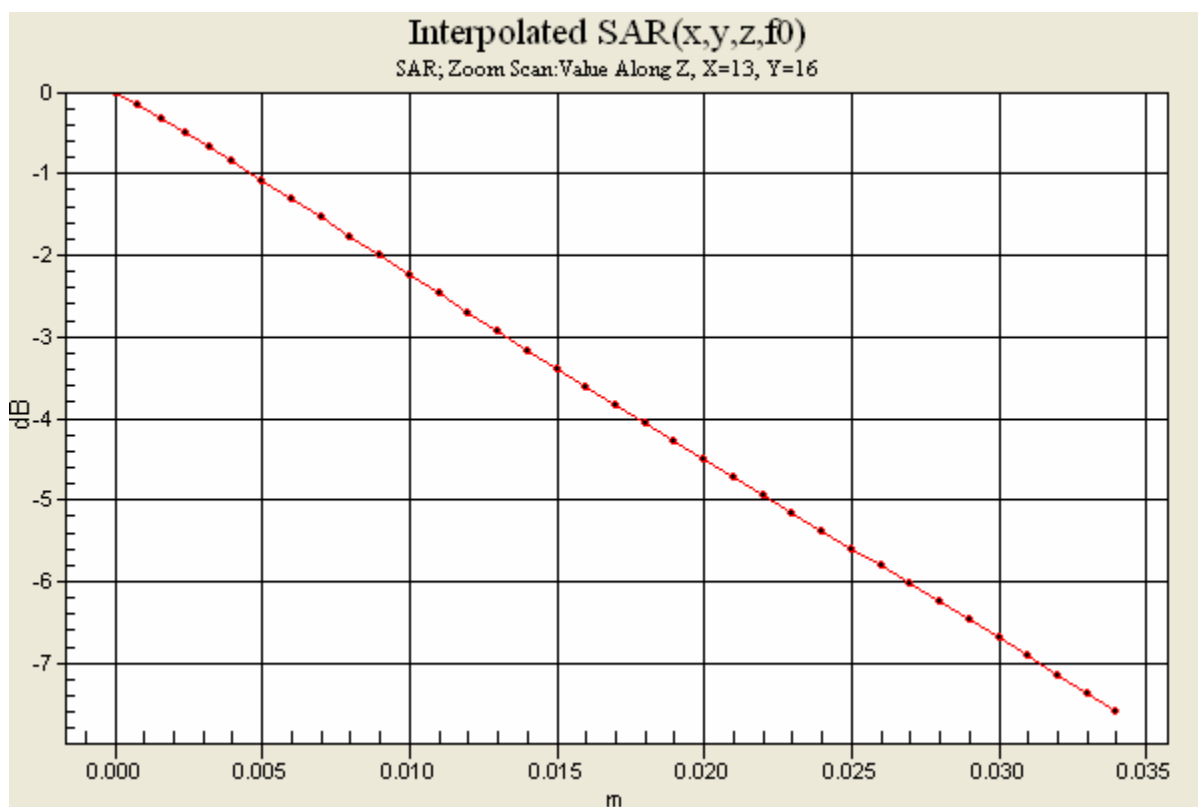
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0 dB = 0.156mW/g





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Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 002 W760c 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	A	

800 GSM Band: Distribution and Extrapolation of Maximum SAR**Model: W760c with Standard Battery: BST-38, Left Cheek Position.**

Date/Time: 4/7/2008 8:12:22 AM

File Name: [07Apr08_W760c_GSM850_0178_LC01.da4](#)**DUT: W760c closed**

Phantom: SAM with CRP (Low Band Head) Phantom section: Left Section

Probe: ET3DV6 - SN1586 ConvF(6.63, 6.63, 6.63)

Medium parameters used (interpolated): $f = 849$ MHz; $\sigma = 0.92$ mho/m; $\epsilon_r = 40.6$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery BST-38 Humidity - 36.4 % Ambient Temp - 21.7 C Simulant Temp - 21.6 C

DASY4 Configuration:

- Probe: ET3DV6 - SN1586; ConvF(6.63, 6.63, 6.63); Calibrated: 5/23/2007

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn369; Calibrated: 5/29/2007

- Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Unnamed procedure 3/Area Scan (51x81x1):

Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.269 mW/g

Unnamed procedure 3/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.67 V/m; Power Drift = -0.035 dB

Peak SAR (extrapolated) = 0.334 W/kg

SAR(1 g) = 0.254 mW/g; SAR(10 g) = 0.187 mW/g[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.270 mW/g

Unnamed procedure 3/Zoom Scan (31x31x36)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.67 V/m; Power Drift = -0.035 dB

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

Maximum value of SAR (interpolated) = 0.334 mW/g

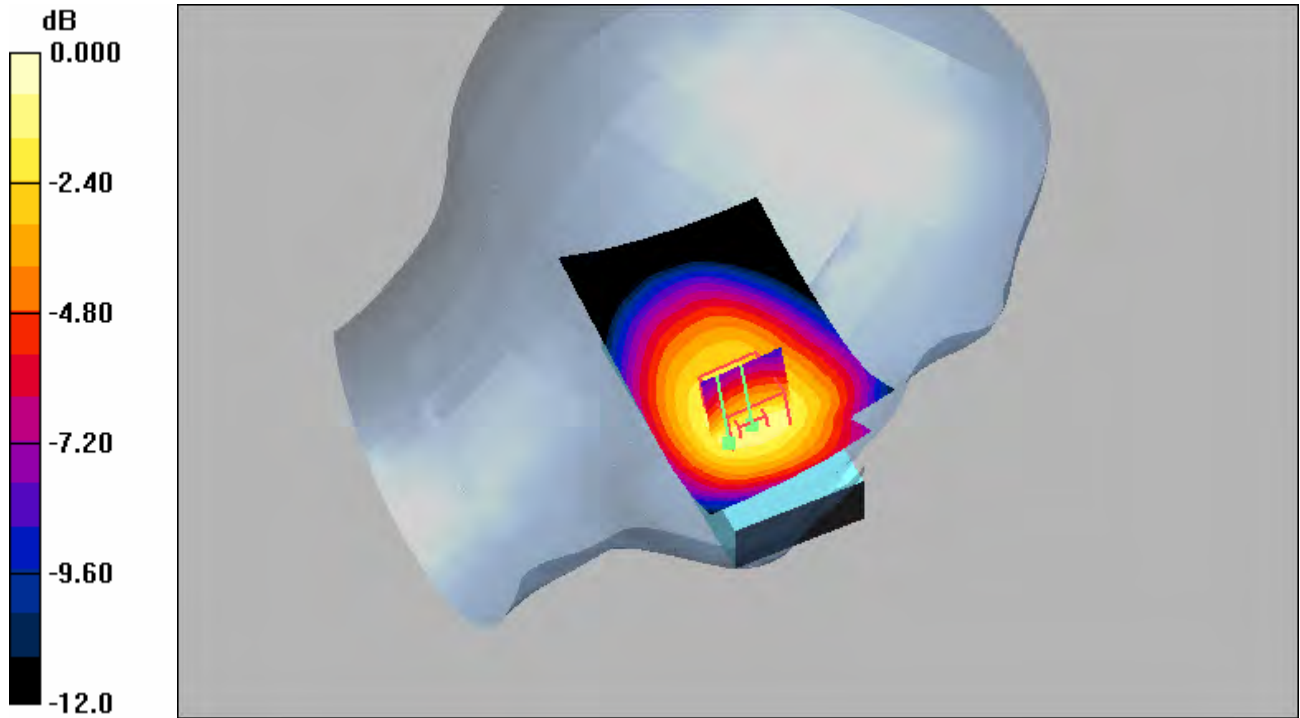


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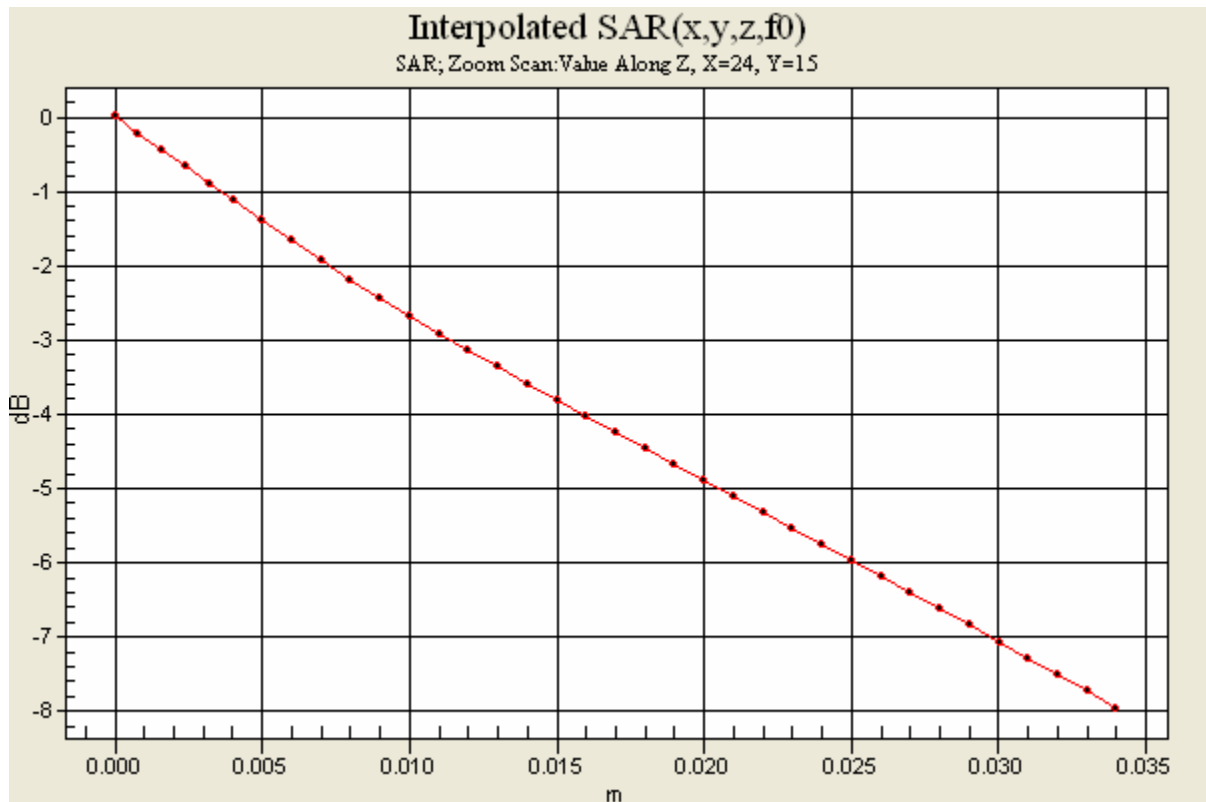
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Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 002 W760c 02	
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0 dB = 0.334mW/g





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REPORT

32(82)

Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 002 W760c 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	A	

800 GSM Band: Distribution and Extrapolation of Maximum SAR**Model: W760c with Standard Battery: BST-38, Left Tilt Position.**

Date/Time: 4/7/2008 8:35:25 AM

File Name: [07Apr08_W760c_GSM850_0178_LT01.da4](#)**DUT: W760c closed**

Phantom: SAM with CRP (Low Band Head) Phantom section: Left Section

Probe: ET3DV6 - SN1586 ConvF(6.63, 6.63, 6.63)

Medium parameters used (interpolated): $f = 836$ MHz; $\sigma = 0.907$ mho/m; $\epsilon_r = 40.8$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery BST-38 Humidity - 36.4 % Ambient Temp - 21.7 C Simulant Temp - 21.6 C

DASY4 Configuration:

- Probe: ET3DV6 - SN1586; ConvF(6.63, 6.63, 6.63); Calibrated: 5/23/2007

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn369; Calibrated: 5/29/2007

- Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Unnamed procedure 2/Area Scan (51x81x1):

Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.118 mW/g

Unnamed procedure 2/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.34 V/m; Power Drift = 0.027 dB

Peak SAR (extrapolated) = 0.151 W/kg

SAR(1 g) = 0.115 mW/g; SAR(10 g) = 0.085 mW/g[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.122 mW/g

Unnamed procedure 2/Zoom Scan (31x31x36)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.34 V/m; Power Drift = 0.027 dB

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

Maximum value of SAR (interpolated) = 0.151 mW/g

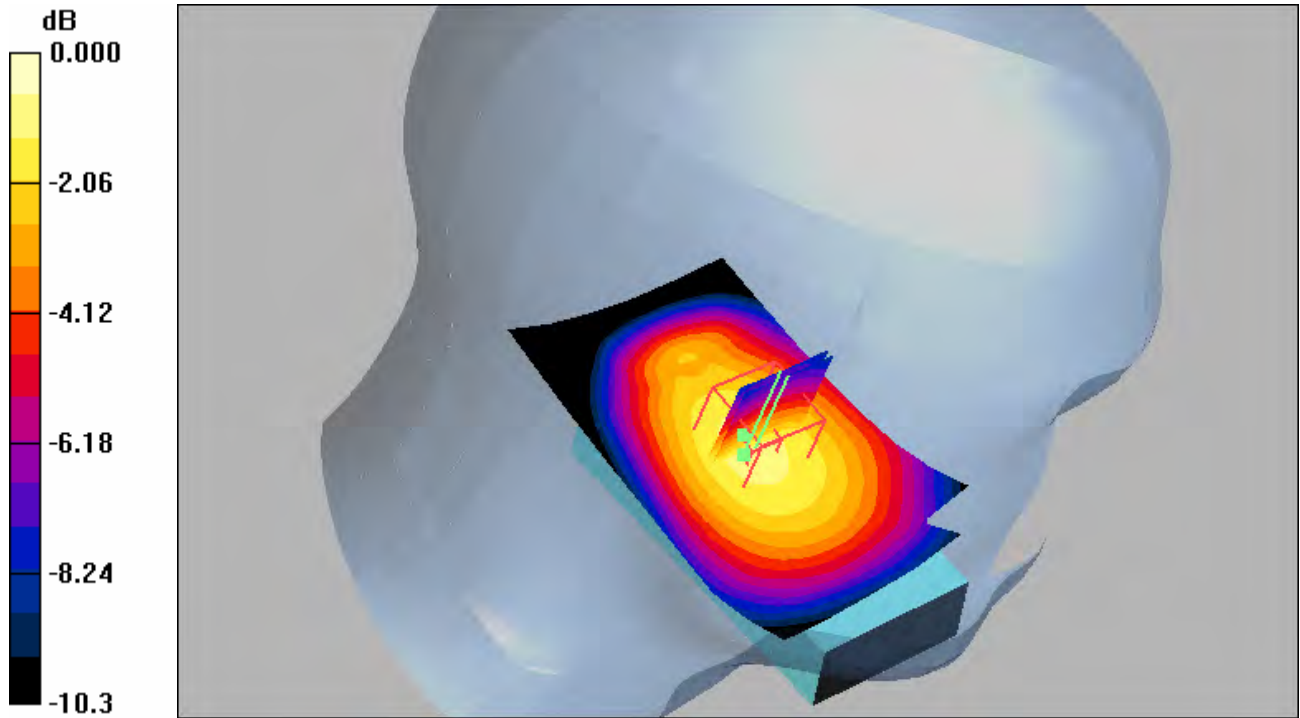


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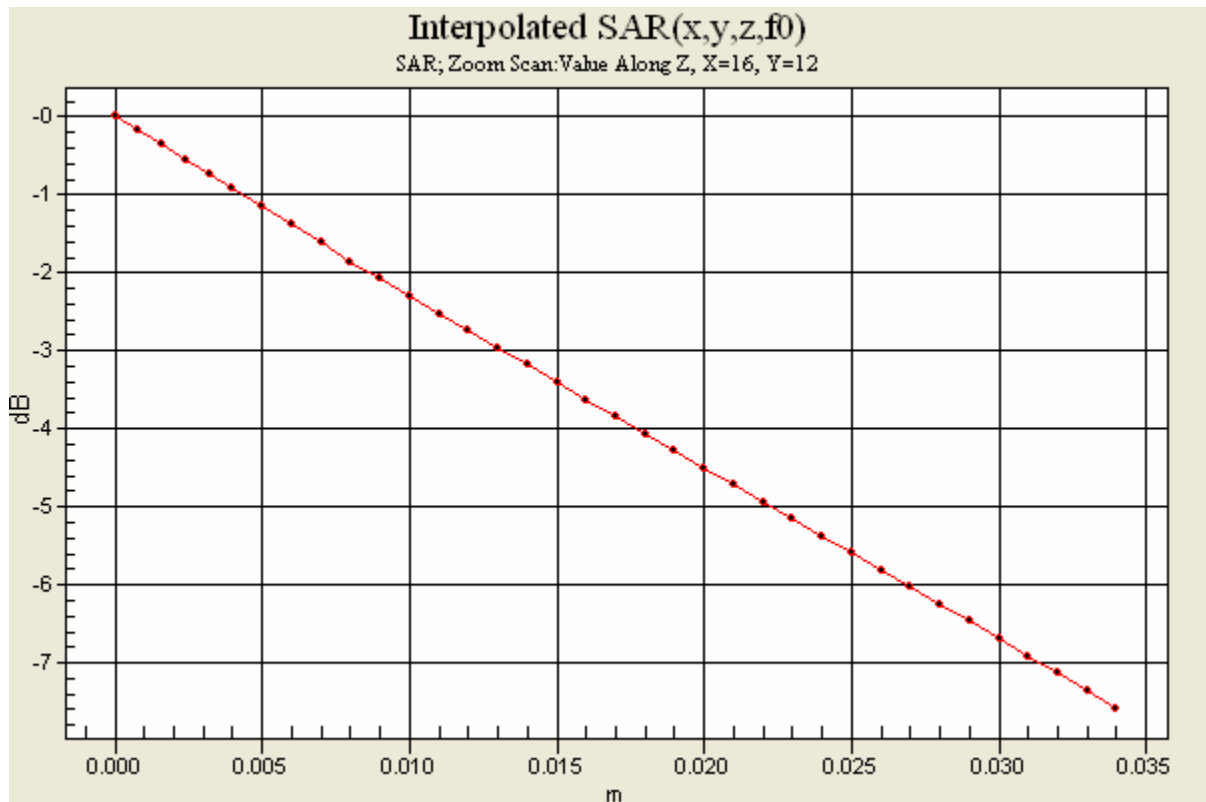
REPORT

33(82)

Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 002 W760c 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	A	



0 dB = 0.151mW/g





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REPORT

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Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 002 W760c 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	A	

1900 GSM Band: Distribution and Extrapolation of Maximum SAR**Model: W760c with Standard Battery: BST-38, Right Cheek Position.**

Date/Time: 4/9/2008 8:15:04 AM

File Name: [09Apr08_W760c_GSM1900_016W_RC01.da4](#)**DUT: W760c closed**

Phantom: SAM with CRP (High Band Head) Phantom section: Right Section

Probe: ET3DV6 - SN1538 ConvF(4.89, 4.89, 4.89)

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 38.4$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery - BST38 Humidity - 38.7 % Ambient Temp - 22.1 C Simulant Tem - 21.9 C

DASY4 Configuration:

- Probe: ET3DV6 - SN1538; ConvF(4.89, 4.89, 4.89); Calibrated: 5/23/2007

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn431; Calibrated: 5/29/2007

- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Unnamed procedure/Area Scan (51x81x1):

Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.568 mW/g

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.0 V/m; Power Drift = -0.005 dB

Peak SAR (extrapolated) = 0.847 W/kg

SAR(1 g) = 0.527 mW/g; SAR(10 g) = 0.309 mW/g[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.584 mW/g

Unnamed procedure/Zoom Scan (31x31x36)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.0 V/m; Power Drift = -0.005 dB

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

Maximum value of SAR (interpolated) = 0.847 mW/g

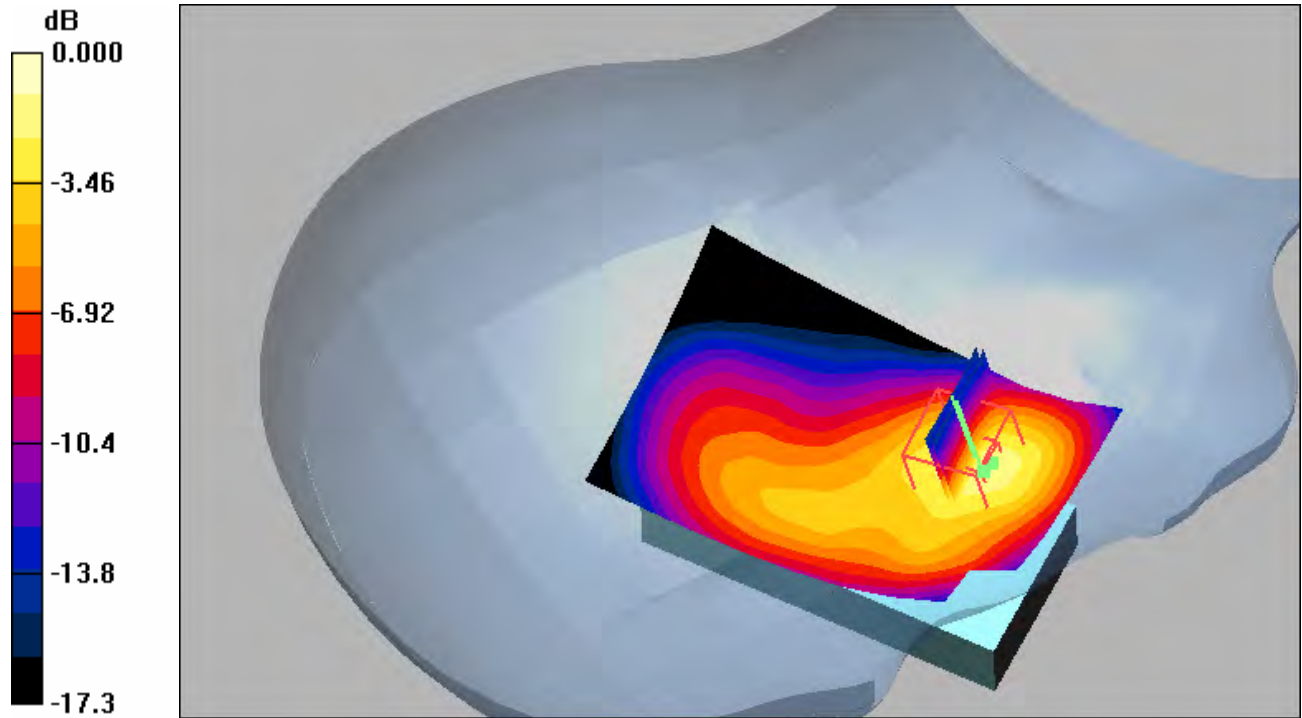


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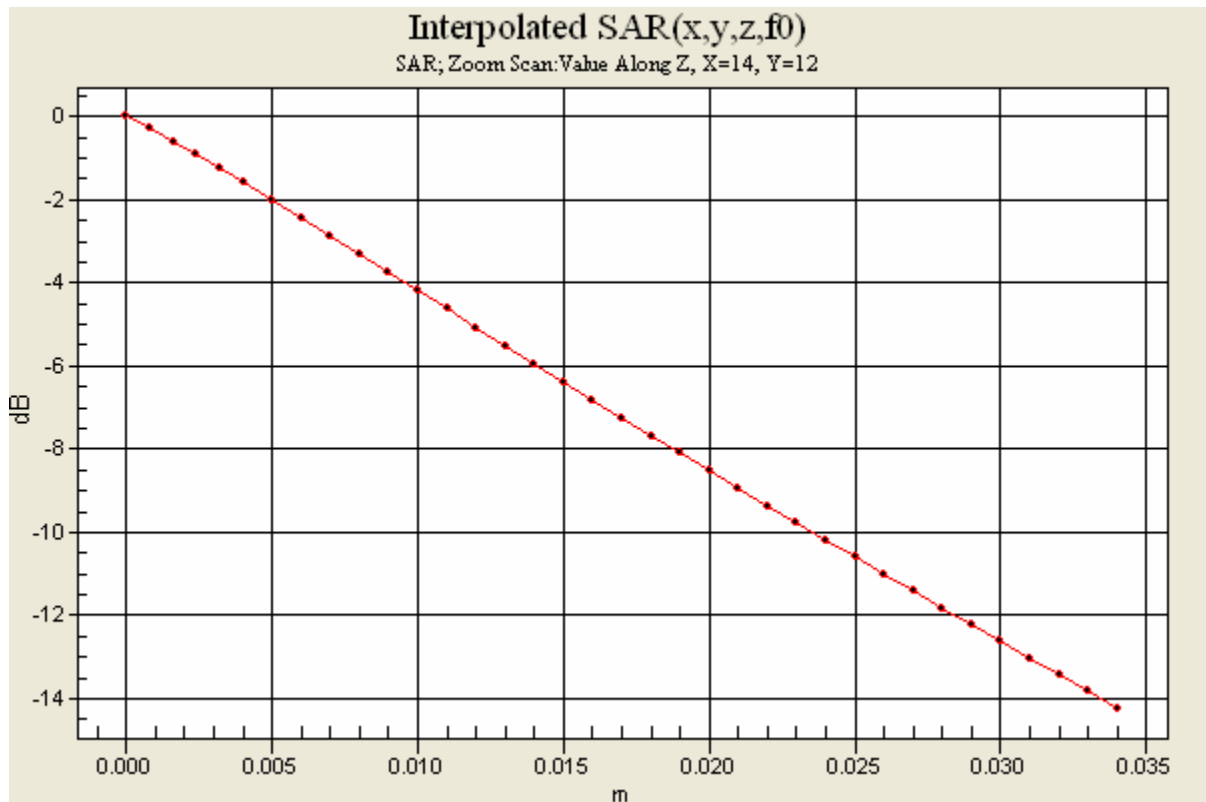
REPORT

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Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 002 W760c 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	A	



0 dB = 0.847mW/g





Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 002 W760c 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	A	

1900 GSM Band: Distribution and Extrapolation of Maximum SAR**Model: W760c with Standard Battery: BST-38, Right Tilt Position.**

Date/Time: 4/9/2008 9:23:43 AM

File Name: [09Apr08_W760c_GSM1900_016W_RT01.da4](#)**DUT: W760c closed**

Phantom: SAM with CRP (High Band Head) Phantom section: Right Section

Probe: ET3DV6 - SN1538ConvF(4.89, 4.89, 4.89)

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 38.3$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery - BST38 Humidity - 38.7 % Ambient Temp - 22.1 C Simulant Tem - 21.9 C

DASY4 Configuration:

- Probe: ET3DV6 - SN1538; ConvF(4.89, 4.89, 4.89); Calibrated: 5/23/2007

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn431; Calibrated: 5/29/2007

- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Unnamed procedure 2/Area Scan (51x81x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.235 mW/g

Unnamed procedure 2/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.6 V/m; Power Drift = 0.053 dB

Peak SAR (extrapolated) = 0.301 W/kg

SAR(1 g) = 0.200 mW/g; SAR(10 g) = 0.123 mW/g

Maximum value of SAR (measured) = 0.219 mW/g

Unnamed procedure 2/Zoom Scan (31x31x36)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.6 V/m; Power Drift = 0.053 dB

Maximum value of SAR (interpolated) = 0.301 mW/g

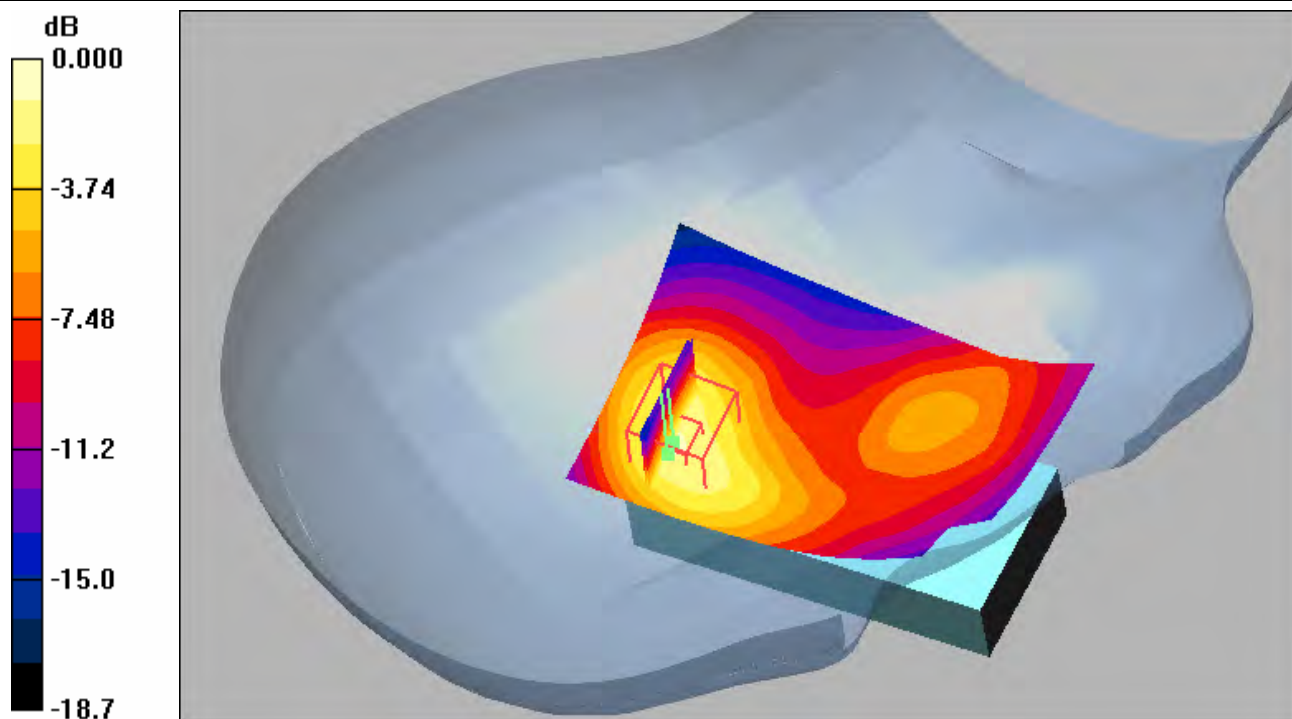


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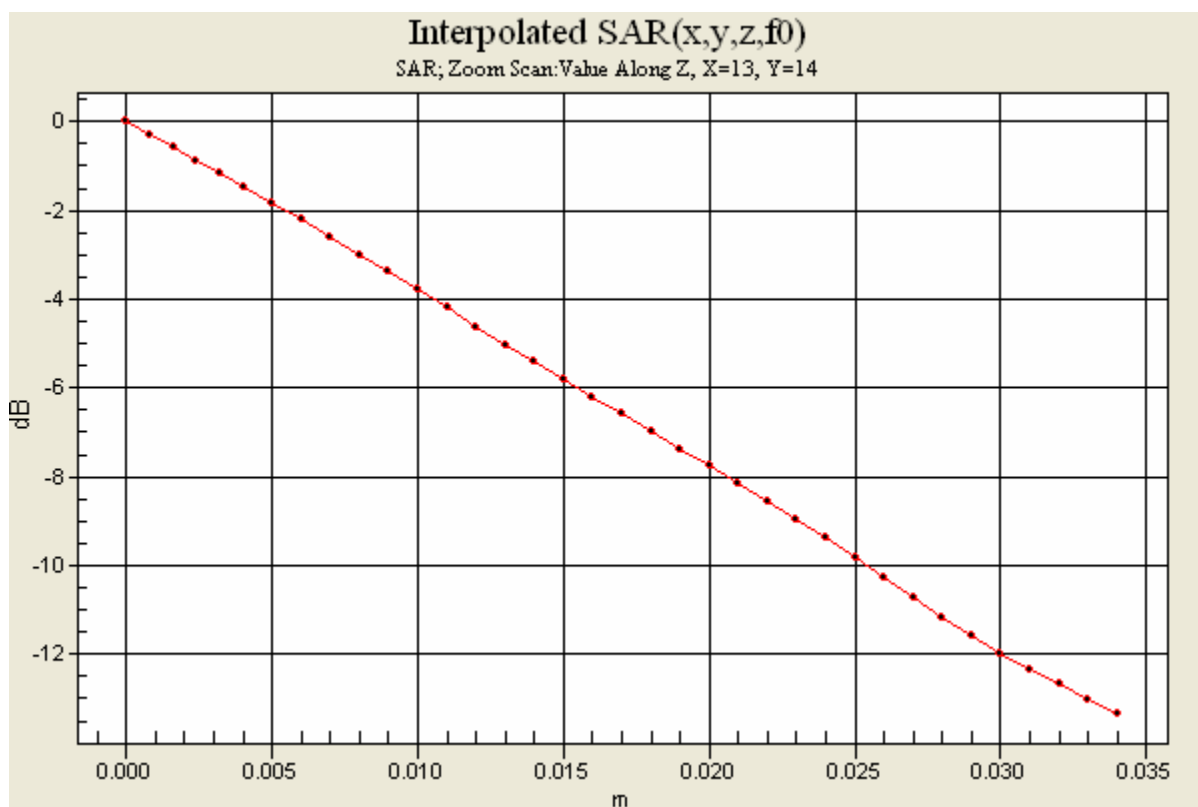
REPORT

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Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 002 W760c 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	A	



0 dB = 0.301mW/g





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REPORT

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Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 002 W760c 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	A	

1900 GSM Band: Distribution and Extrapolation of Maximum SAR**Model: W760c with Standard Battery: BST-38, Left Cheek Position.**

Date/Time: 4/9/2008 6:42:52 AM

File Name: [09Apr08_W760c_GSM1900_016W_LC01.da4](#)**DUT: W760c closed**

Phantom: SAM with CRP (High Band Head) Phantom section: Left Section

Probe: ET3DV6 - SN1538 ConvF(4.89, 4.89, 4.89)

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 38.4$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery - BST-38 Humidity: 37.4% Ambient Temp: 22.2 C Simulant Temp: 21.9 C

DASY4 Configuration:

- Probe: ET3DV6 - SN1538; ConvF(4.89, 4.89, 4.89); Calibrated: 5/23/2007

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn431; Calibrated: 5/29/2007

- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Unnamed procedure/Area Scan (51x81x1):

Measurement grid: dx=15mm, dy=15mm

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

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

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.1 V/m; Power Drift = -0.160 dB

Peak SAR (extrapolated) = 0.628 W/kg

SAR(1 g) = 0.429 mW/g; SAR(10 g) = 0.281 mW/g[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

Unnamed procedure/Zoom Scan (31x31x36)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.1 V/m; Power Drift = -0.160 dB

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

Maximum value of SAR (interpolated) = 0.628 mW/g

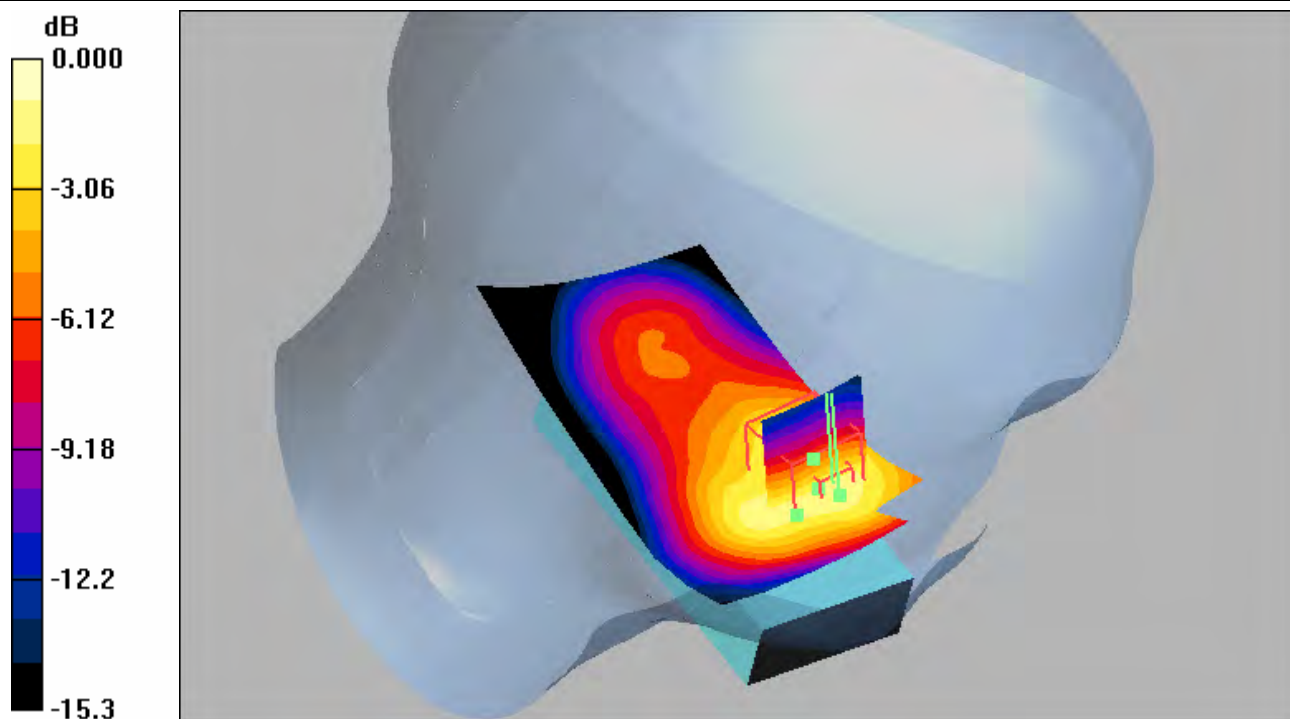


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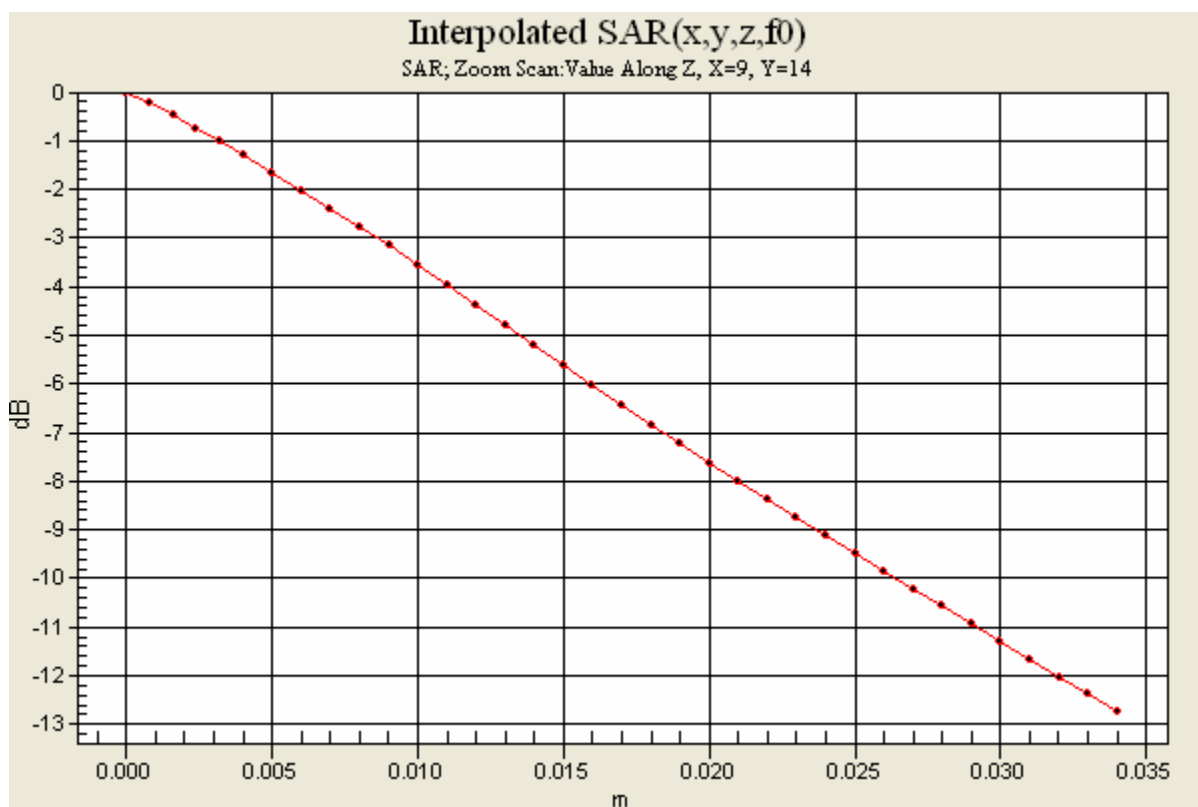
REPORT

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Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 002 W760c 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	A	



0 dB = 0.628mW/g





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REPORT

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Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 002 W760c 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	A	

1900 GSM Band: Distribution and Extrapolation of Maximum SAR**Model: W760c with Standard Battery: BST-38, Left Tilt Position.**

Date/Time: 4/9/2008 7:48:34 AM

File Name: [09Apr08_W760c_GSM1900_016W_LT01.da4](#)**DUT: W760c closed**

Phantom: SAM with CRP (High Band Head) Phantom section: Left Section

Probe: ET3DV6 - SN1538ConvF(4.89, 4.89, 4.89)

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 38.3$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery - BST-38 Humidity: 37.4% Ambient Temp: 22.2 C Simulant Temp: 21.9 C

DASY4 Configuration:

- Probe: ET3DV6 - SN1538; ConvF(4.89, 4.89, 4.89); Calibrated: 5/23/2007

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn431; Calibrated: 5/29/2007

- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Unnamed procedure 2/Area Scan (51x81x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.270 mW/g

Unnamed procedure 2/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.4 V/m; Power Drift = 0.019 dB

Peak SAR (extrapolated) = 0.346 W/kg

SAR(1 g) = 0.236 mW/g; SAR(10 g) = 0.142 mW/g

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

Unnamed procedure 2/Zoom Scan (31x31x36)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.4 V/m; Power Drift = 0.019 dB

Maximum value of SAR (interpolated) = 0.346 mW/g

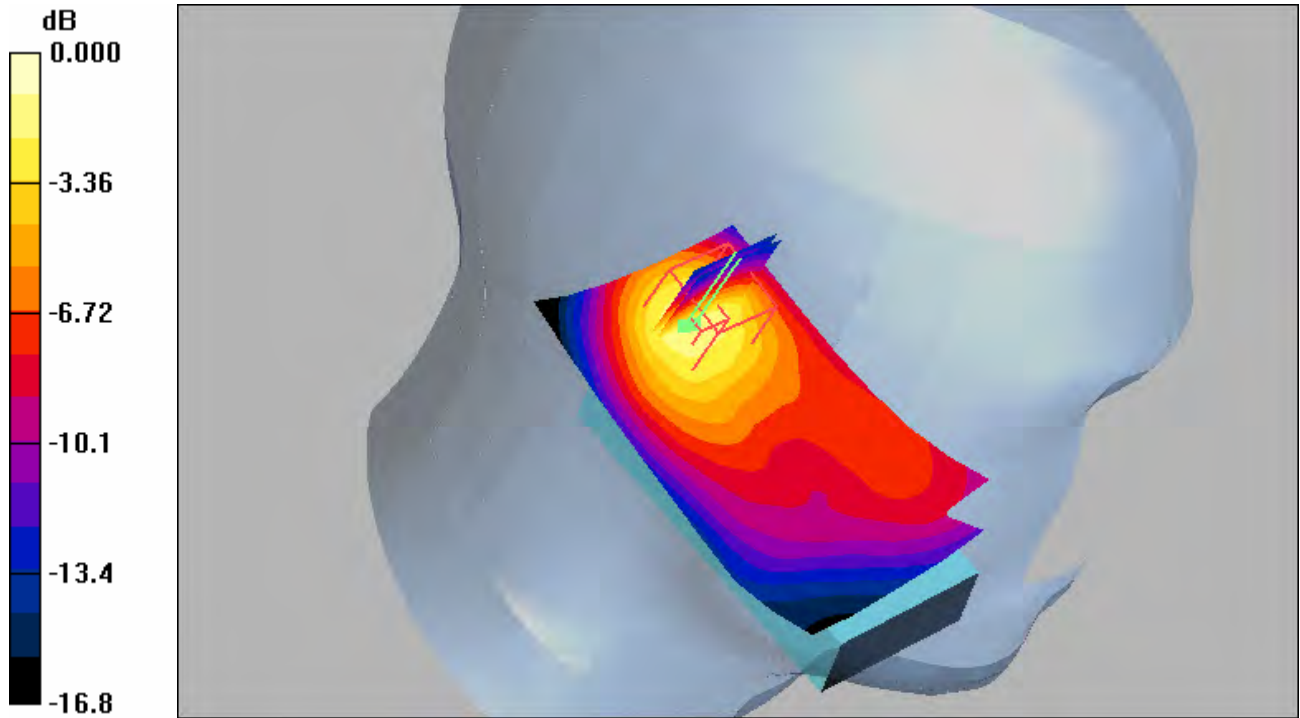


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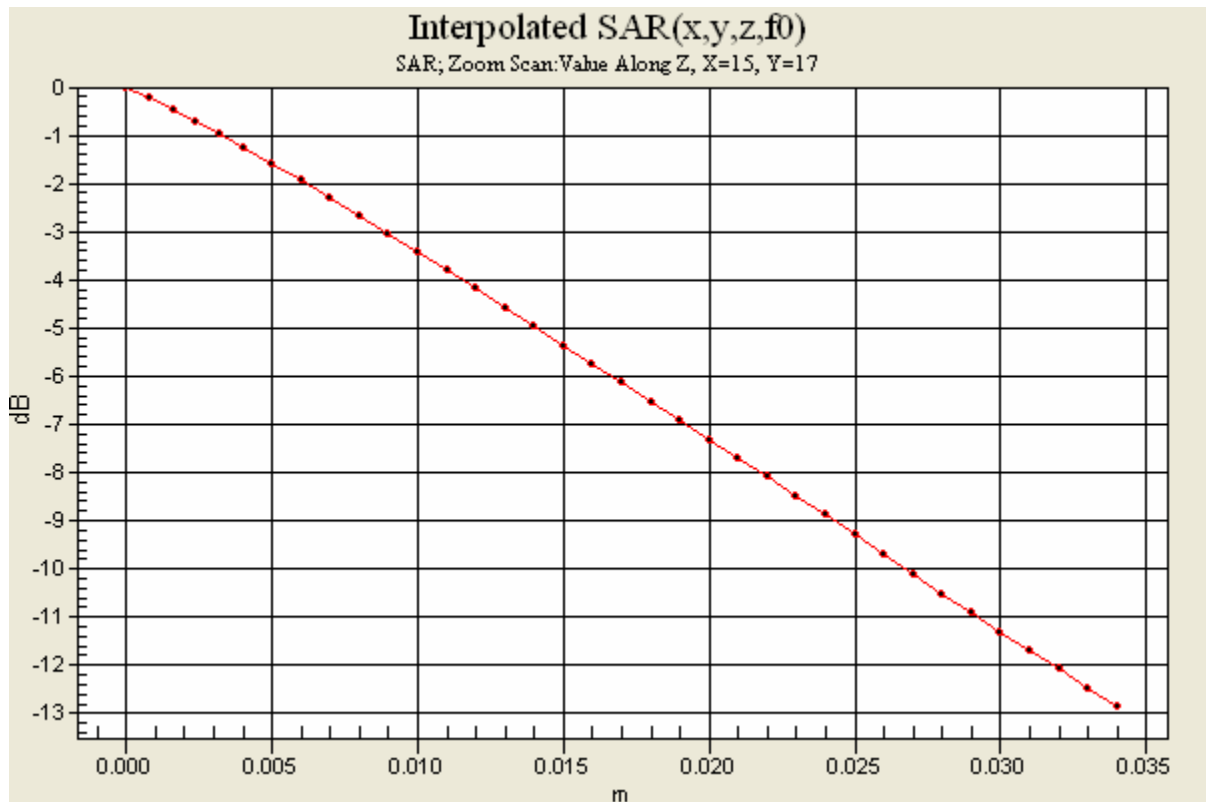
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Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 002 W760c 02	
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0 dB = 0.346mW/g





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Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 002 W760c 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked		A

800 GSM Band: SAR Distribution and Extrapolation of Maximum SAR**Model: W760c with Standard Battery: BST-38, Right Cheek Open Position.**

Date/Time: 4/16/2008 11:13:13 AM

File Name: [16Apr08_W760c_GSM850_0178_open_RC01.da4](#)**DUT: W760c open**

Phantom: SAM with CRP (Low Band Head)Phantom section: Right Section

Probe: ET3DV6 - SN1586ConvF(6.63, 6.63, 6.63)

Medium parameters used (interpolated): $f = 849 \text{ MHz}$; $\sigma = 0.931 \text{ mho/m}$; $\epsilon_r = 41.8$; $\rho = 1000 \text{ kg/m}^3$

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery BST-38 Humidity - 36.4 % Ambient Temp - 21.7 C Simulant Temp - 21.6 C

DASY4 Configuration:

- Probe: ET3DV6 - SN1586; ConvF(6.63, 6.63, 6.63); Calibrated: 5/23/2007

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn369; Calibrated: 5/29/2007

- Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Unnamed procedure 3/Area Scan (51x81x1):Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ [Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.341 mW/g

Unnamed procedure 3/Zoom Scan (7x7x7)/Cube 0:Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.51 V/m; Power Drift = -0.059 dB

Peak SAR (extrapolated) = 0.429 W/kg

SAR(1 g) = 0.325 mW/g; SAR(10 g) = 0.240 mW/g[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

Unnamed procedure 3/Zoom Scan (31x31x36)/Cube 0:Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.51 V/m; Power Drift = -0.059 dB

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

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

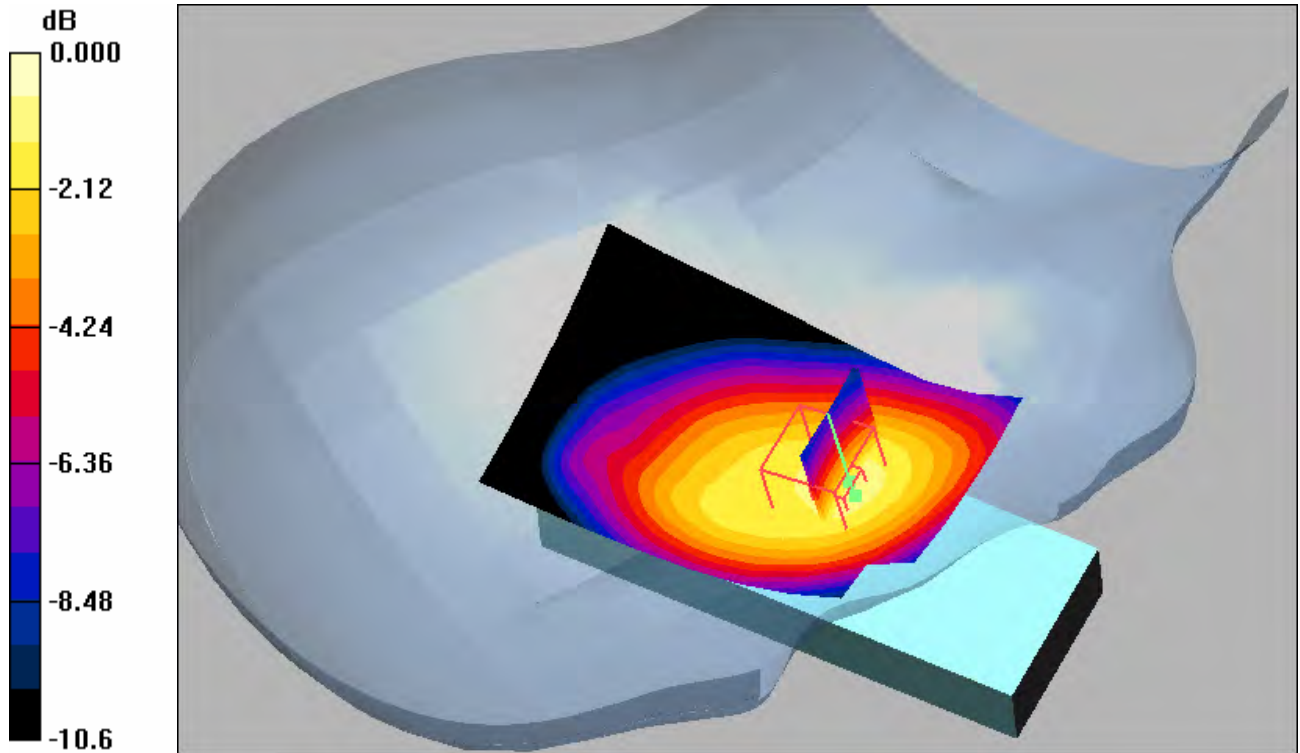


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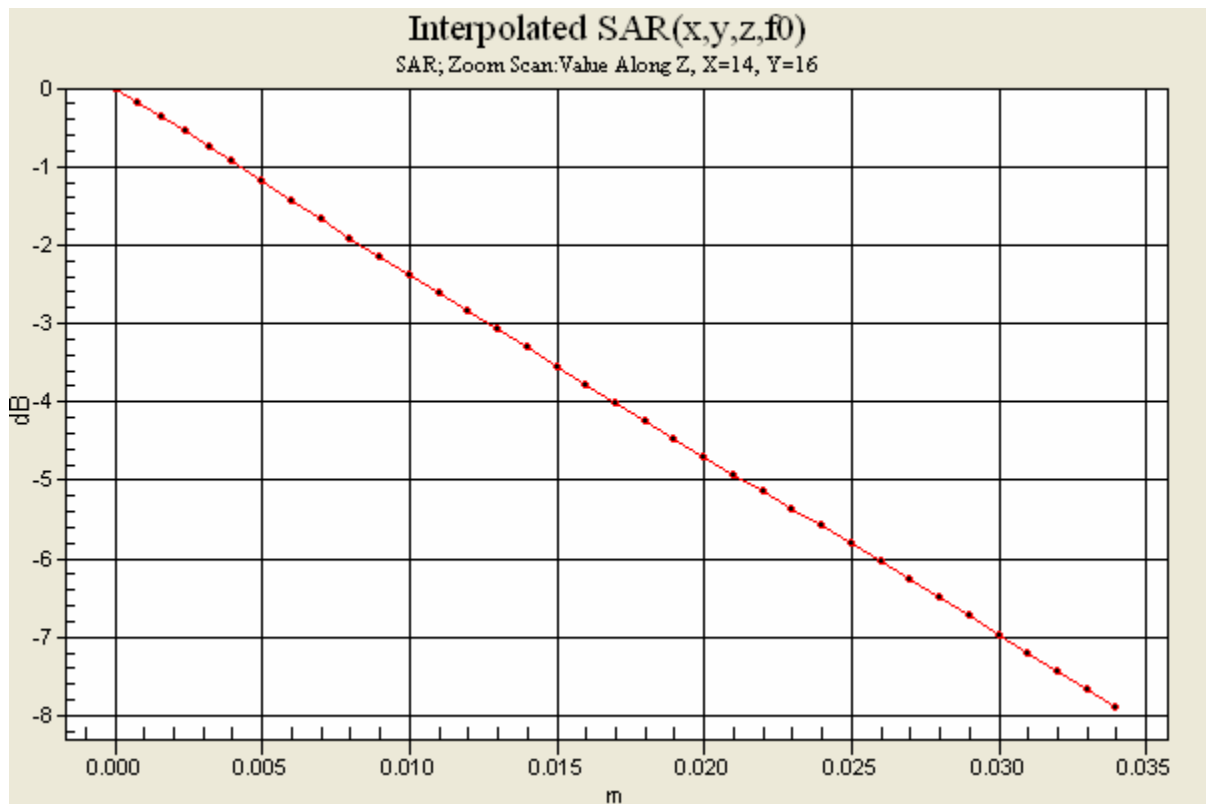
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Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 002 W760c 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	A	



0 dB = 0.429mW/g





Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 002 W760c 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	A	

800 GSM Band: Distribution and Extrapolation of Maximum SAR**Model: W760c with Standard Battery: BST-38, Right Tilt Open Position.**

Date/Time: 4/7/2008 10:35:19 AM

File Name: [07Apr08_W760c_GSM850_0178_open_RT01.da4](#)**DUT: W760c open**

Phantom: SAM with CRP (Low Band Head) Phantom section: Right Section

Probe: ET3DV6 - SN1586 ConvF(6.63, 6.63, 6.63)

Medium parameters used (interpolated): $f = 836$ MHz; $\sigma = 0.907$ mho/m; $\epsilon_r = 40.8$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery BST-38 Humidity - 37.5 % Ambient Temp - 21.8 C Simulant Temp - 21.6 C

DASY4 Configuration:

- Probe: ET3DV6 - SN1586; ConvF(6.63, 6.63, 6.63); Calibrated: 5/23/2007

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn369; Calibrated: 5/29/2007

- Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Unnamed procedure 2/Area Scan (51x81x1):

Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.164 mW/g

Unnamed procedure 2/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.4 V/m; Power Drift = 0.041 dB

Peak SAR (extrapolated) = 0.204 W/kg

SAR(1 g) = 0.159 mW/g; SAR(10 g) = 0.118 mW/g[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.167 mW/g

Unnamed procedure 2/Zoom Scan (31x31x36)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.4 V/m; Power Drift = 0.041 dB

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

Maximum value of SAR (interpolated) = 0.204 mW/g

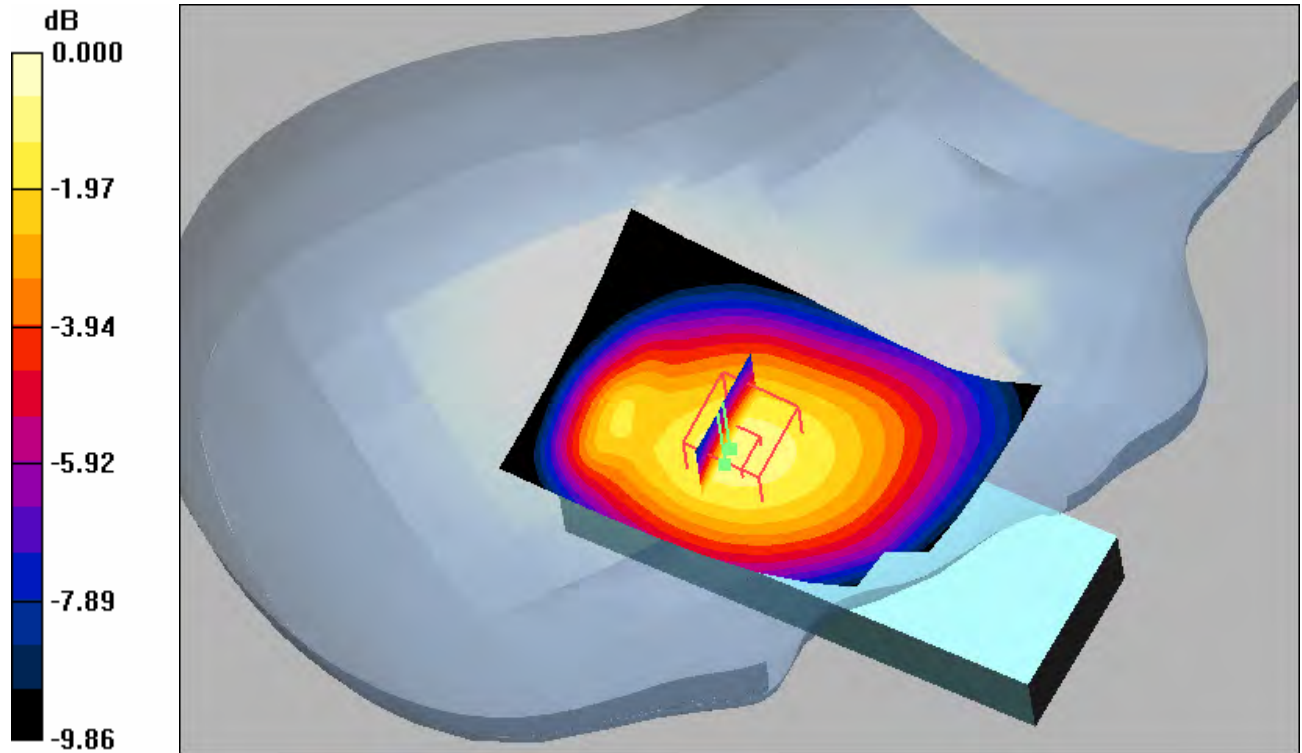


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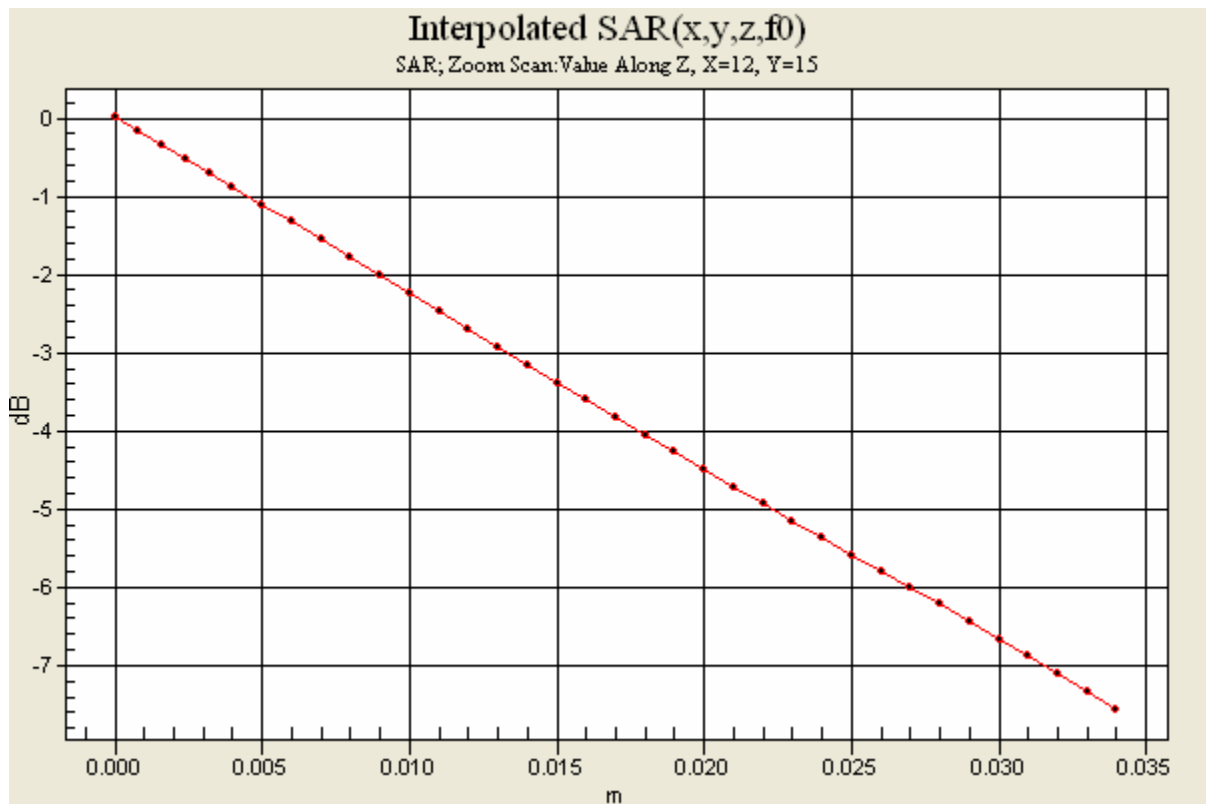
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Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 002 W760c 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	A	



0 dB = 0.204mW/g





Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 002 W760c 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	A	

800 GSM Band: Distribution and Extrapolation of Maximum SAR**Model: W760c with Standard Battery: BST-38, Left Cheek Open Position.**

Date/Time: 4/16/2008 10:47:51 AM

File Name: [16Apr08_W760c_GSM850_0178_open_LC01.da4](#)**DUT: W760c open**

Phantom: SAM with CRP (Low Band Head) Phantom section: Left Section

Probe: ET3DV6 - SN1586 ConvF(6.63, 6.63, 6.63)

Medium parameters used (interpolated): $f = 849$ MHz; $\sigma = 0.931$ mho/m; $\epsilon_r = 41.8$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery BST-38 Humidity - 36.4 % Ambient Temp - 21.7 C Simulant Temp - 21.6 C

DASY4 Configuration:

- Probe: ET3DV6 - SN1586; ConvF(6.63, 6.63, 6.63); Calibrated: 5/23/2007

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn369; Calibrated: 5/29/2007

- Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Unnamed procedure 3/Area Scan (51x81x1):

Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.375 mW/g

Unnamed procedure 3/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.37 V/m; Power Drift = 0.003 dB

Peak SAR (extrapolated) = 0.472 W/kg

SAR(1 g) = 0.351 mW/g; SAR(10 g) = 0.262 mW/g[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

Unnamed procedure 3/Zoom Scan (31x31x36)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.37 V/m; Power Drift = 0.003 dB

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

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

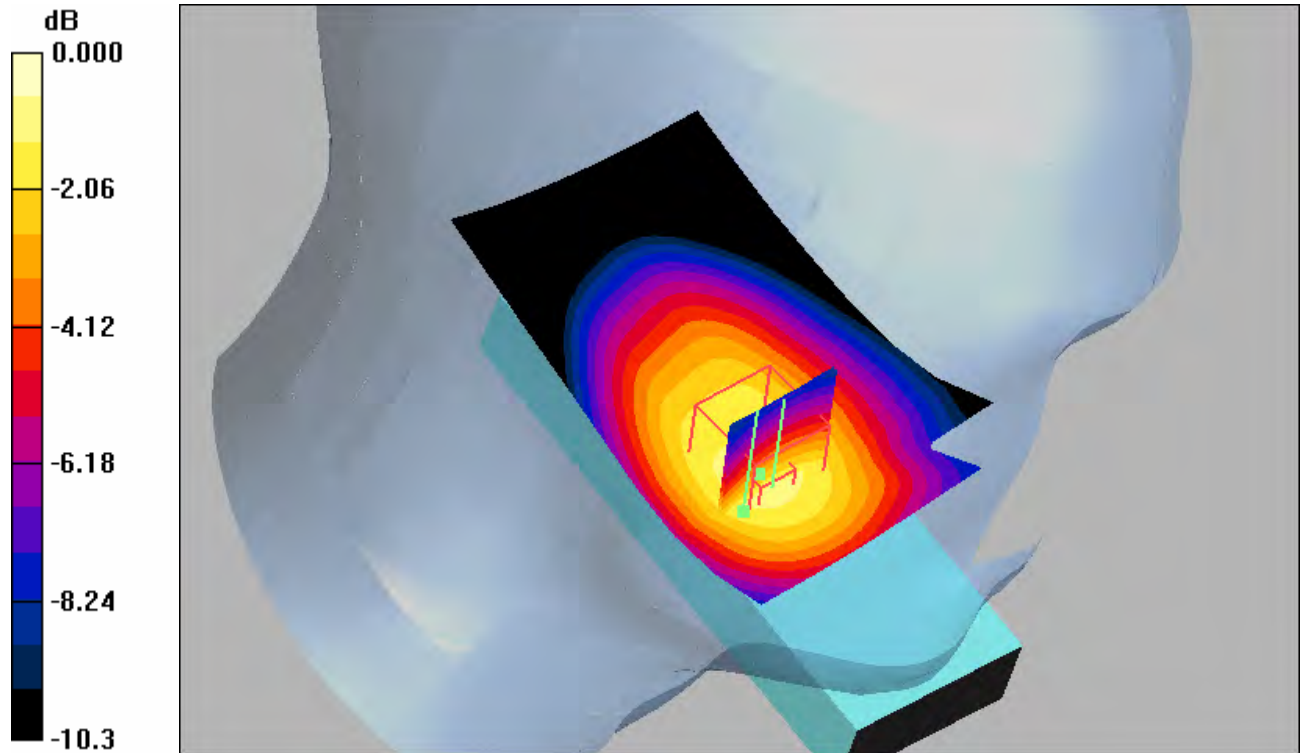


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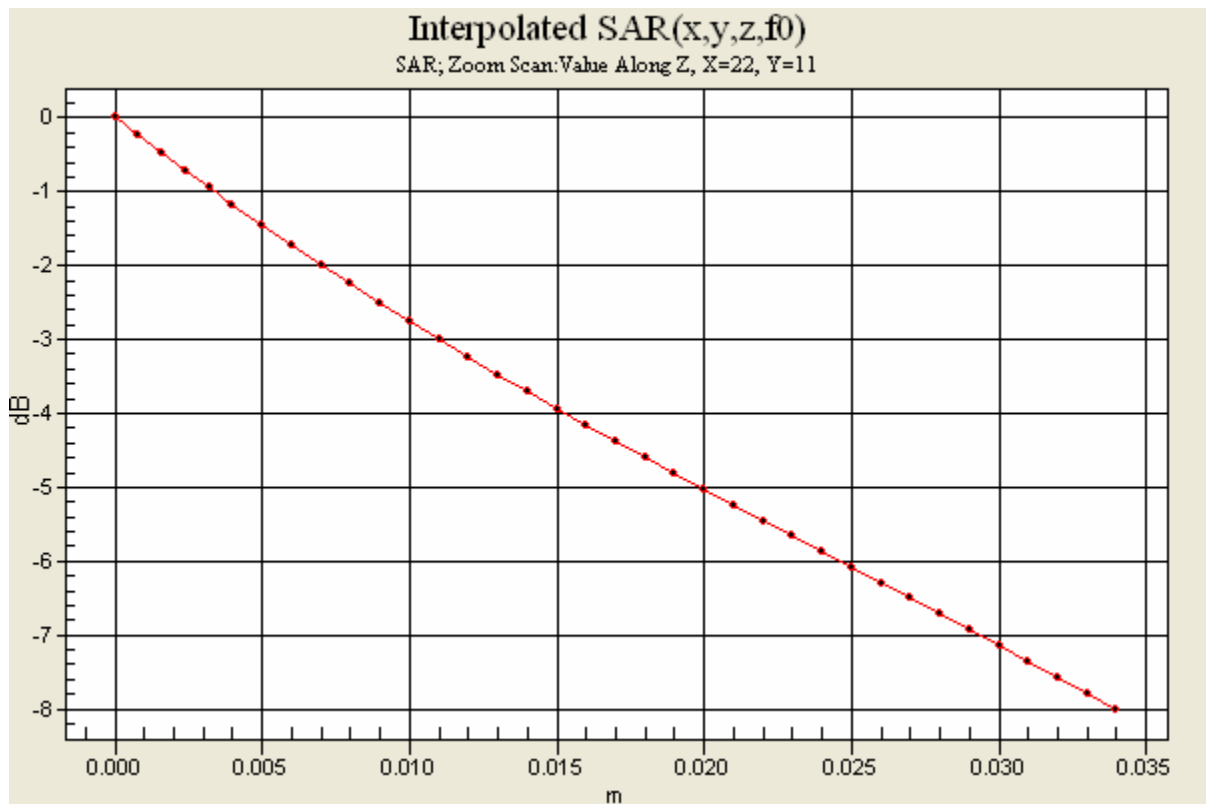
REPORT

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Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 002 W760c 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	A	



0 dB = 0.472mW/g





Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 002 W760c 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	A	

800 GSM Band: Distribution and Extrapolation of Maximum SAR**Model: W760c with Standard Battery: BST-38, Left Tilt Open Position.**

Date/Time: 4/7/2008 12:31:09 PM

File Name: [07Apr08_W760c_GSM850_0178_open_LT01.da4](#)**DUT: W760c open**

Phantom: SAM with CRP (Low Band Head) Phantom section: Left Section

Probe: ET3DV6 - SN1586 ConvF(6.63, 6.63, 6.63)

Medium parameters used (interpolated): $f = 836$ MHz; $\sigma = 0.907$ mho/m; $\epsilon_r = 40.8$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery BST-38 Humidity - 36.4 % Ambient Temp - 21.7 C Simulant Temp - 21.6 C

DASY4 Configuration:

- Probe: ET3DV6 - SN1586; ConvF(6.63, 6.63, 6.63); Calibrated: 5/23/2007

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn369; Calibrated: 5/29/2007

- Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Unnamed procedure 2/Area Scan (51x81x1):

Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.162 mW/g

Unnamed procedure 2/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.0 V/m; Power Drift = 0.029 dB

Peak SAR (extrapolated) = 0.197 W/kg

SAR(1 g) = 0.156 mW/g; SAR(10 g) = 0.117 mW/g[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.166 mW/g

Unnamed procedure 2/Zoom Scan (31x31x36)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.0 V/m; Power Drift = 0.029 dB

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

Maximum value of SAR (interpolated) = 0.197 mW/g

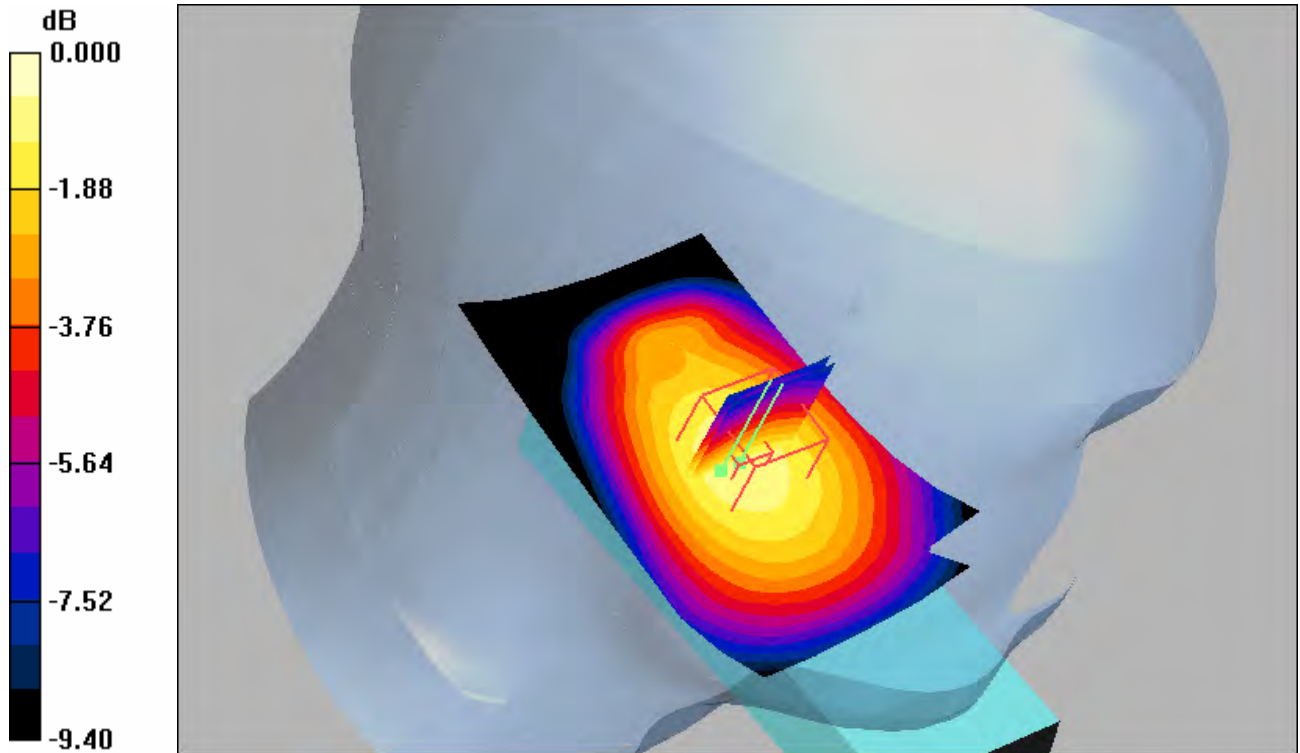


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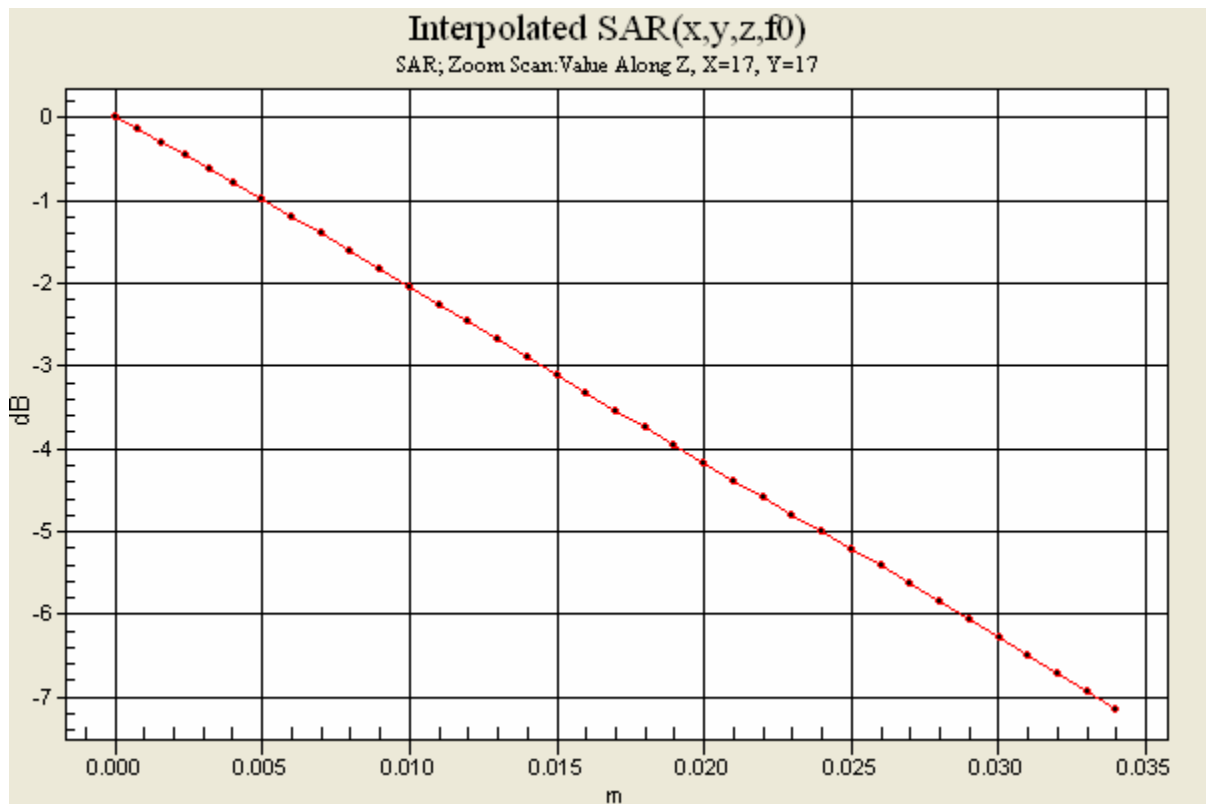
REPORT

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Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 002 W760c 02	
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0 dB = 0.197mW/g





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REPORT

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Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 002 W760c 02	
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1900 GSM Band: Distribution and Extrapolation of Maximum SAR**Model: W760c with Standard Battery: BST-38, Right Cheek Open Position.**

Date/Time: 4/16/2008 7:03:28 AM

File Name: [16Apr08_W760c_GSM1900_016W_open_RC01.da4](#)**DUT: W760c open**

Phantom: SAM with CRP (High Band Head) Phantom section: Right Section

Probe: ET3DV6 - SN1538 ConvF(4.89, 4.89, 4.89)

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 38.3$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery - BST38 Humidity - 31.7% Ambient Temp - 22.6 C Simulant Tem - 22.3 C

DASY4 Configuration:

- Probe: ET3DV6 - SN1538; ConvF(4.89, 4.89, 4.89); Calibrated: 5/23/2007

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn431; Calibrated: 5/29/2007

- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Unnamed procedure/Area Scan (51x81x1):

Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.363 mW/g

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.79 V/m; Power Drift = -0.097 dB

Peak SAR (extrapolated) = 0.463 W/kg

SAR(1 g) = 0.328 mW/g; SAR(10 g) = 0.213 mW/g[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.357 mW/g

Unnamed procedure/Zoom Scan (31x31x36)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.79 V/m; Power Drift = -0.097 dB

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

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

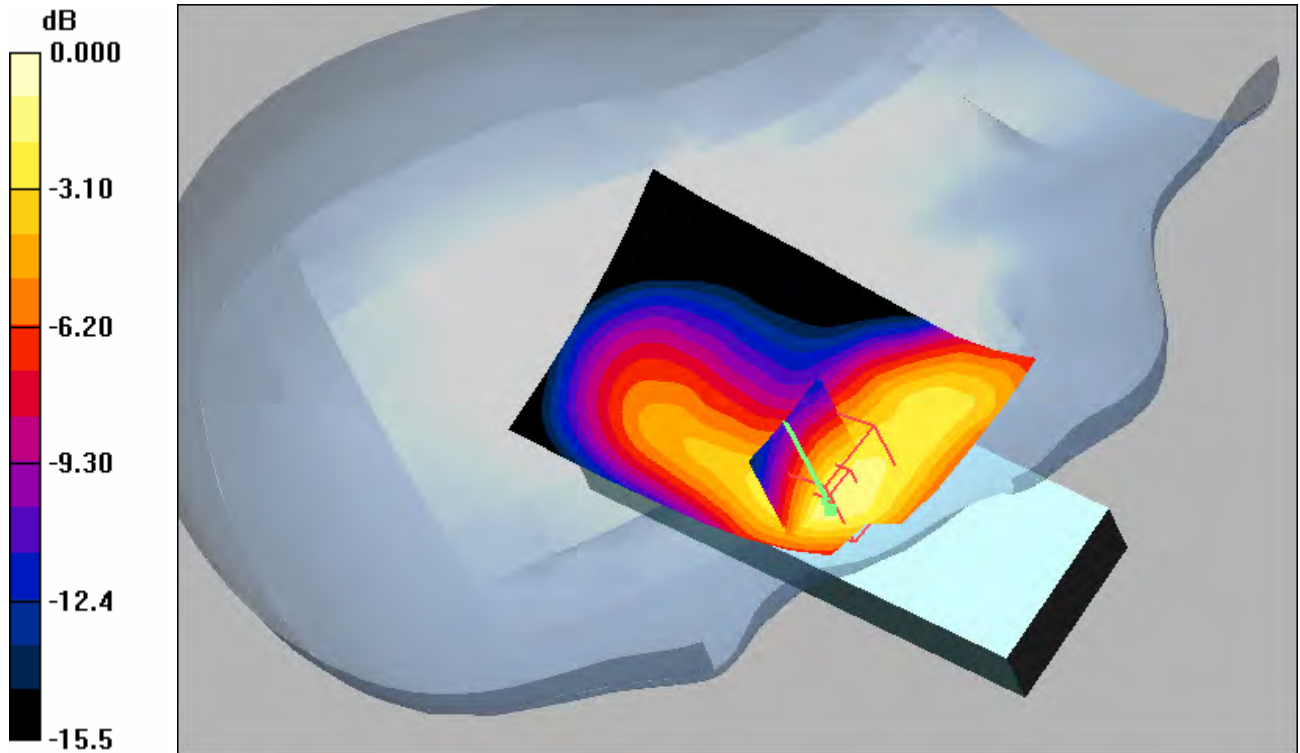


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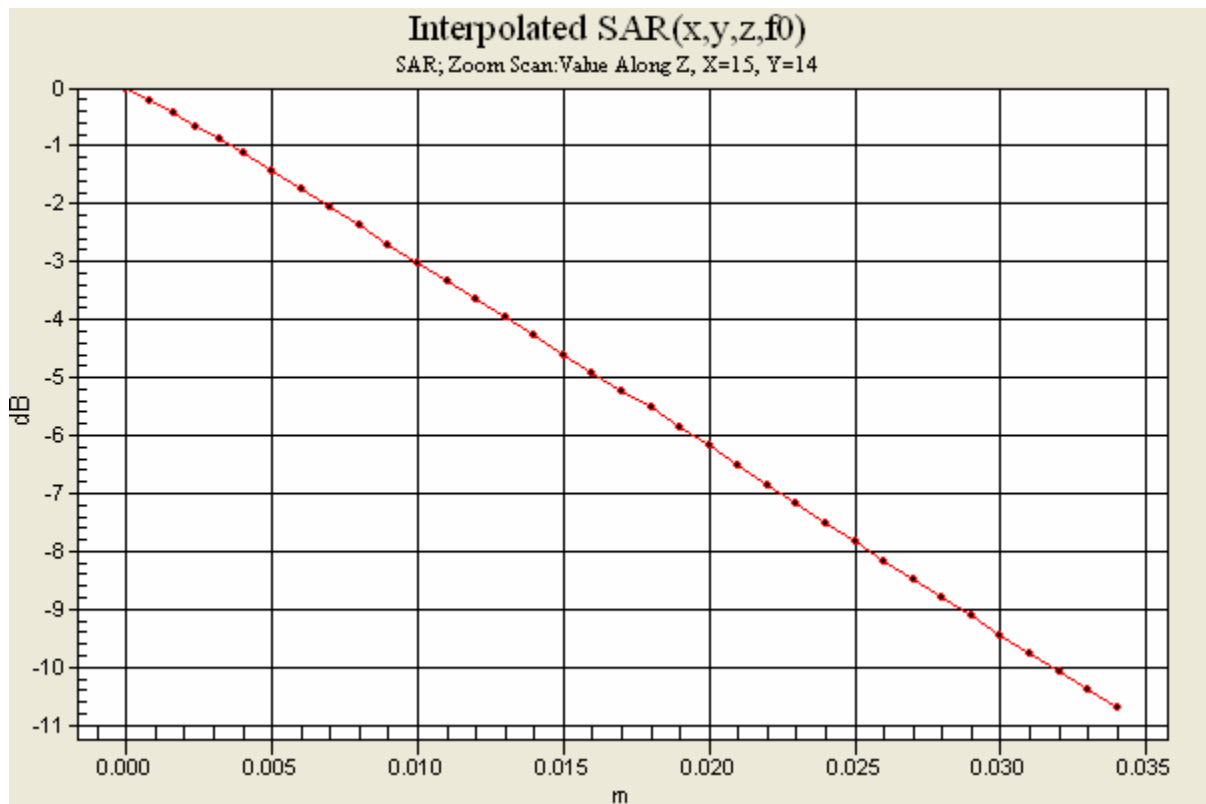
REPORT

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0 dB = 0.463mW/g





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1900 GSM Band: Distribution and Extrapolation of Maximum SAR**Model: W760c with Standard Battery: BST-38, Right Tilt Open Position.**

Date/Time: 4/16/2008 8:02:58 AM

File Name: [16Apr08_W760c_GSM1900_016W_open_RT01.da4](#)**DUT: W760c open**

Phantom: SAM with CRP (High Band Head) Phantom section: Right Section

Probe: ET3DV6 - SN1538 ConvF(4.89, 4.89, 4.89)

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery - BST38 Humidity - 31.7% Ambient Temp - 22.6 C Simulant Tem - 22.3 C

DASY4 Configuration:

- Probe: ET3DV6 - SN1538; ConvF(4.89, 4.89, 4.89); Calibrated: 5/23/2007

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn431; Calibrated: 5/29/2007

- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Unnamed procedure 2/Area Scan (51x81x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.175 mW/g

Unnamed procedure 2/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.9 V/m; Power Drift = -0.029 dB

Peak SAR (extrapolated) = 0.238 W/kg

SAR(1 g) = 0.153 mW/g; SAR(10 g) = 0.092 mW/g

Maximum value of SAR (measured) = 0.167 mW/g

Unnamed procedure 2/Zoom Scan (31x31x36)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.9 V/m; Power Drift = -0.029 dB

Maximum value of SAR (interpolated) = 0.238 mW/g

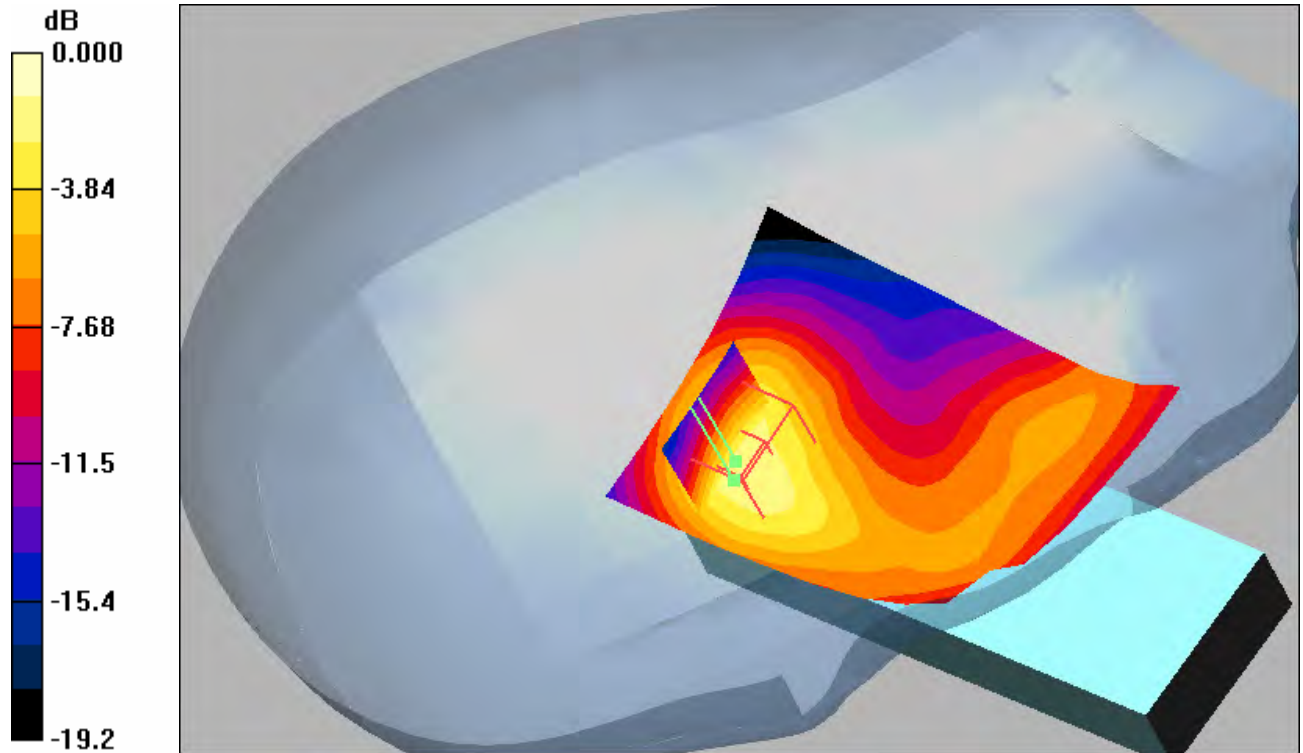


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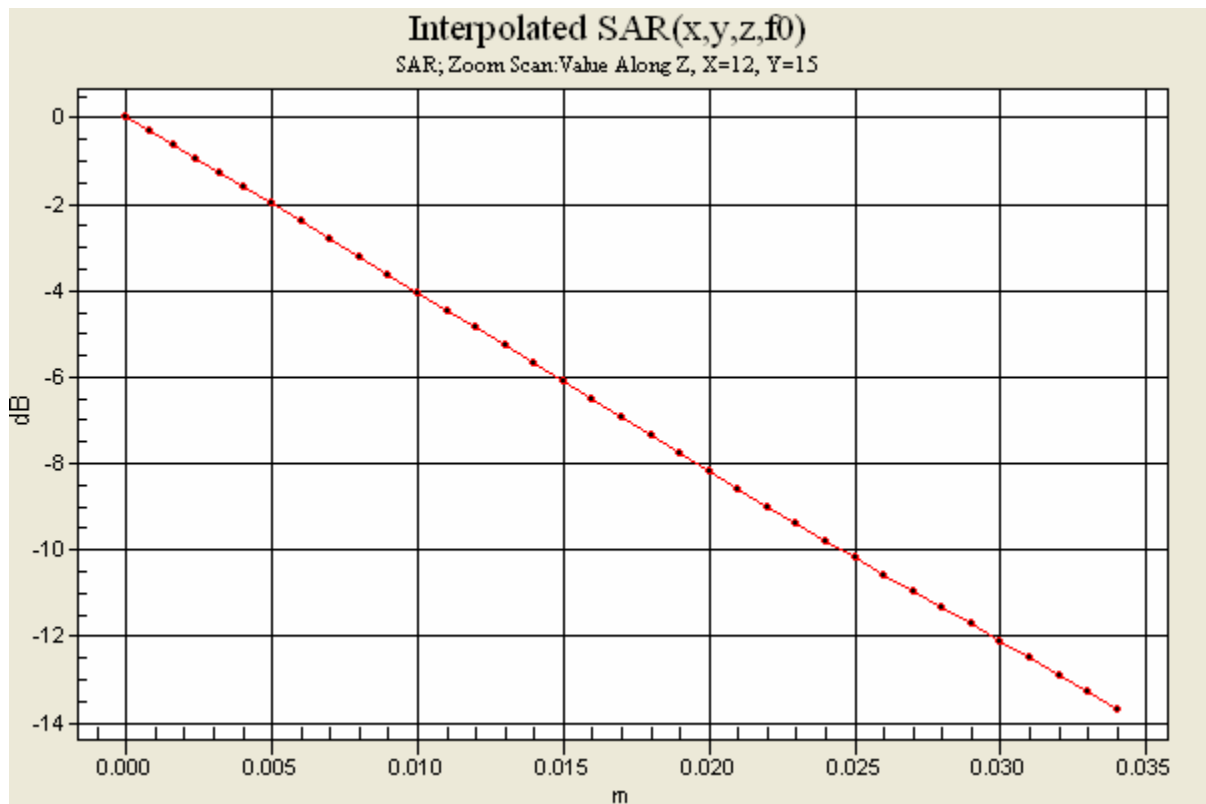
REPORT

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0 dB = 0.238mW/g





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Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 002 W760c 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	A	

1900 GSM Band: Distribution and Extrapolation of Maximum SAR**Model: W760c with Standard Battery: BST-38, Left Cheek Open Position.**

Date/Time: 4/16/2008 8:28:38 AM

File Name: [16Apr08_W760c_GSM1900_016W_open_LC01.da4](#)**DUT: W760c open**

Phantom: SAM with CRP (High Band Head) Phantom section: Left Section

Probe: ET3DV6 - SN1538 ConvF(4.89, 4.89, 4.89)

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 38.3$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery - BST38 Humidity - 31.7% Ambient Temp - 22.6 C Simulant Tem - 22.3 C

DASY4 Configuration:

- Probe: ET3DV6 - SN1538; ConvF(4.89, 4.89, 4.89); Calibrated: 5/23/2007

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn431; Calibrated: 5/29/2007

- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Unnamed procedure/Area Scan (51x81x1):

Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.518 mW/g

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.30 V/m; Power Drift = 0.025 dB

Peak SAR (extrapolated) = 0.715 W/kg

SAR(1 g) = 0.469 mW/g; SAR(10 g) = 0.280 mW/g[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.519 mW/g

Unnamed procedure/Zoom Scan (31x31x36)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.30 V/m; Power Drift = 0.025 dB

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

Maximum value of SAR (interpolated) = 0.715 mW/g

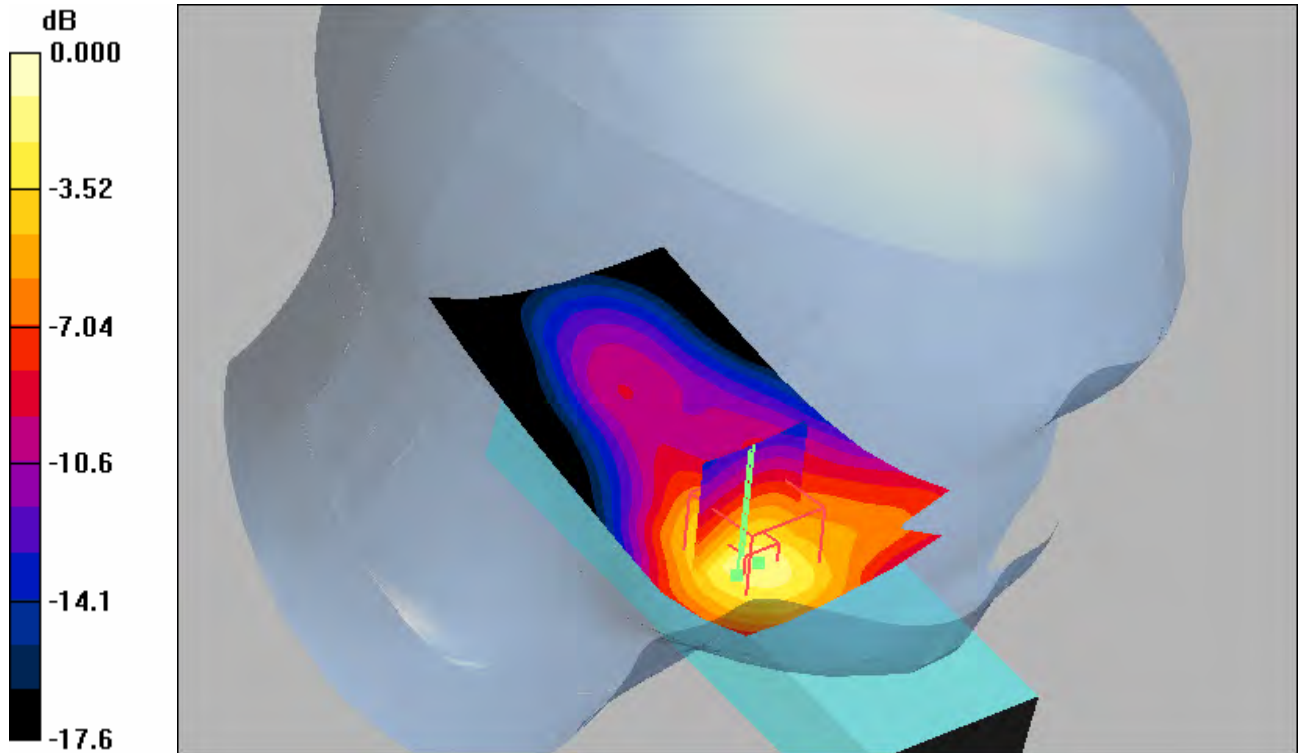


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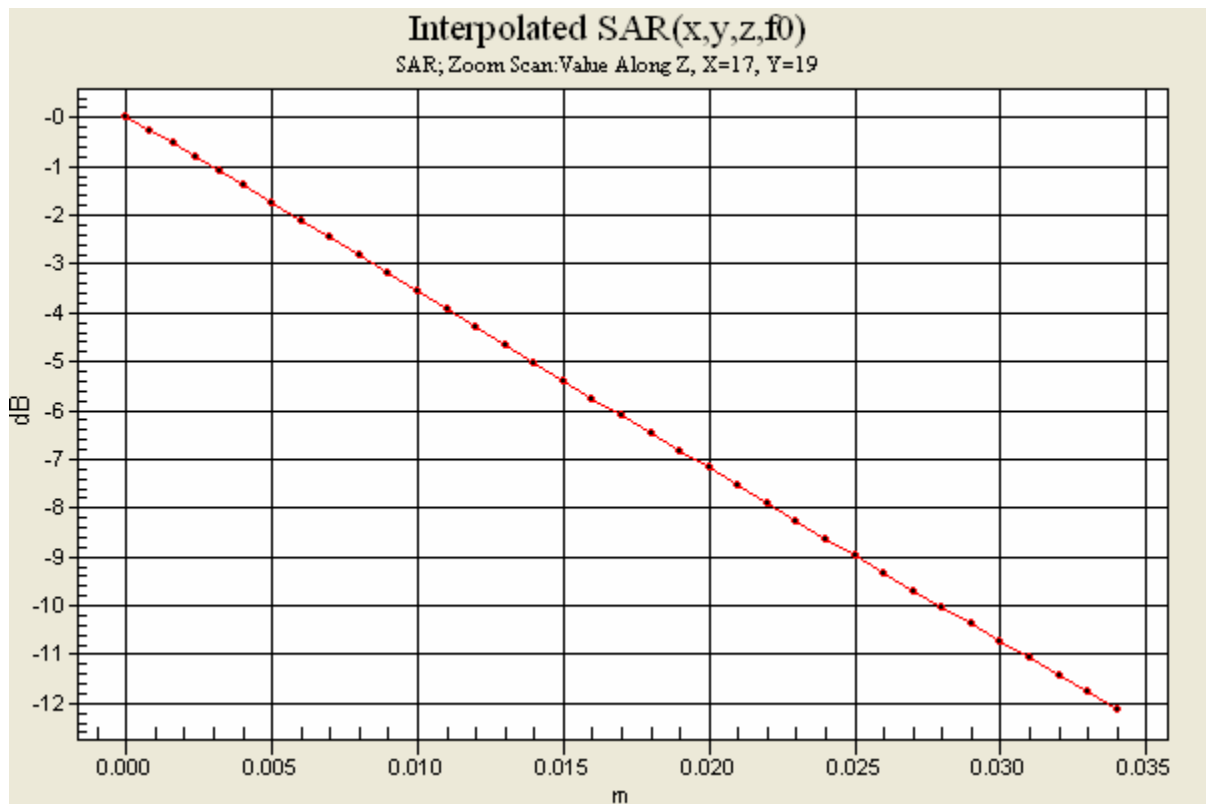
REPORT

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0 dB = 0.715mW/g





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Approved SEM/CV/PF/P Gerard Hayes	Checked	A	

1900 GSM Band: Distribution and Extrapolation of Maximum SAR**Model: W760c with Standard Battery: BST-38, Left Tilt Open Position.**

Date/Time: 4/16/2008 9:26:09 AM

File Name: [16Apr08_W760c_GSM1900_016W_open_LT01.da4](#)**DUT: W760c open**

Phantom: SAM with CRP (High Band Head) Phantom section: Left Section

Probe: ET3DV6 - SN1538ConvF(4.89, 4.89, 4.89)

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery - BST38 Humidity - 31.7% Ambient Temp - 22.6 C Simulant Tem - 22.3 C

DASY4 Configuration:

- Probe: ET3DV6 - SN1538; ConvF(4.89, 4.89, 4.89); Calibrated: 5/23/2007

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn431; Calibrated: 5/29/2007

- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Unnamed procedure 2/Area Scan (51x81x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.145 mW/g

Unnamed procedure 2/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.6 V/m; Power Drift = -0.026 dB

Peak SAR (extrapolated) = 0.193 W/kg

SAR(1 g) = 0.126 mW/g; SAR(10 g) = 0.074 mW/g

Maximum value of SAR (measured) = 0.140 mW/g

Unnamed procedure 2/Zoom Scan (31x31x36)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.6 V/m; Power Drift = -0.026 dB

Maximum value of SAR (interpolated) = 0.193 mW/g

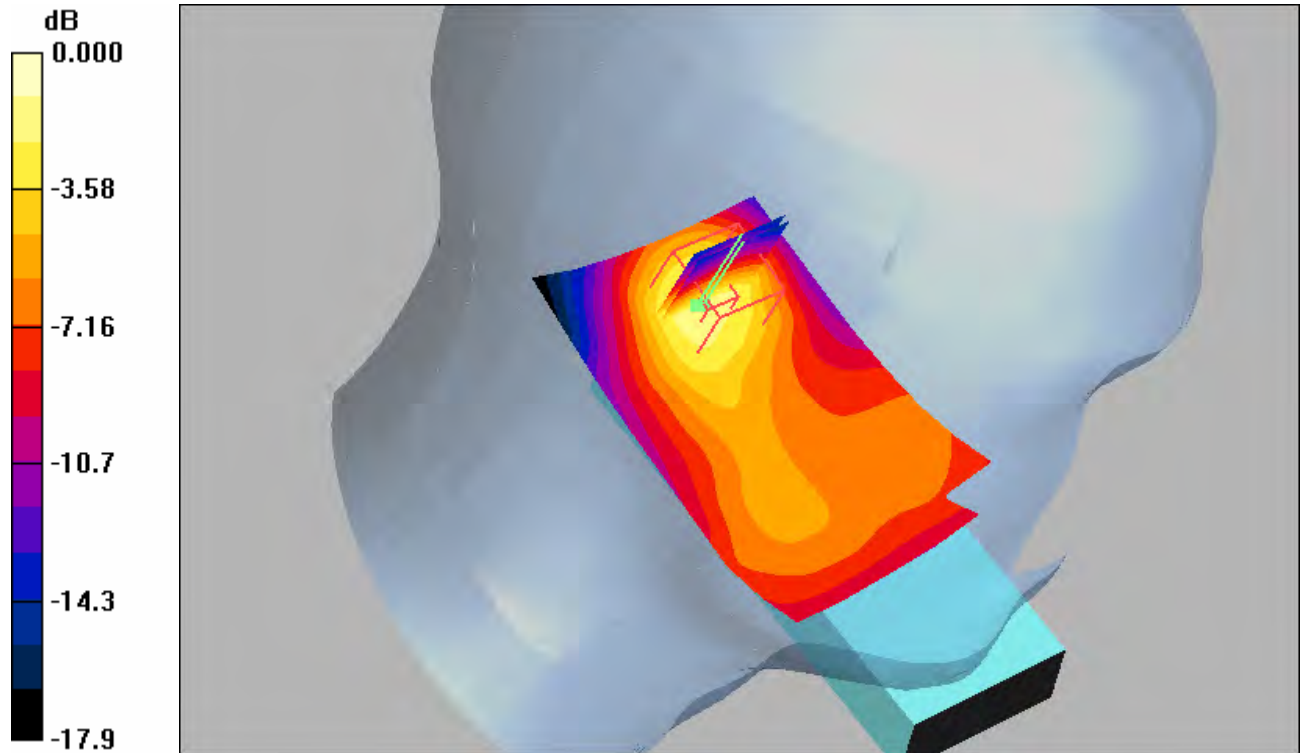


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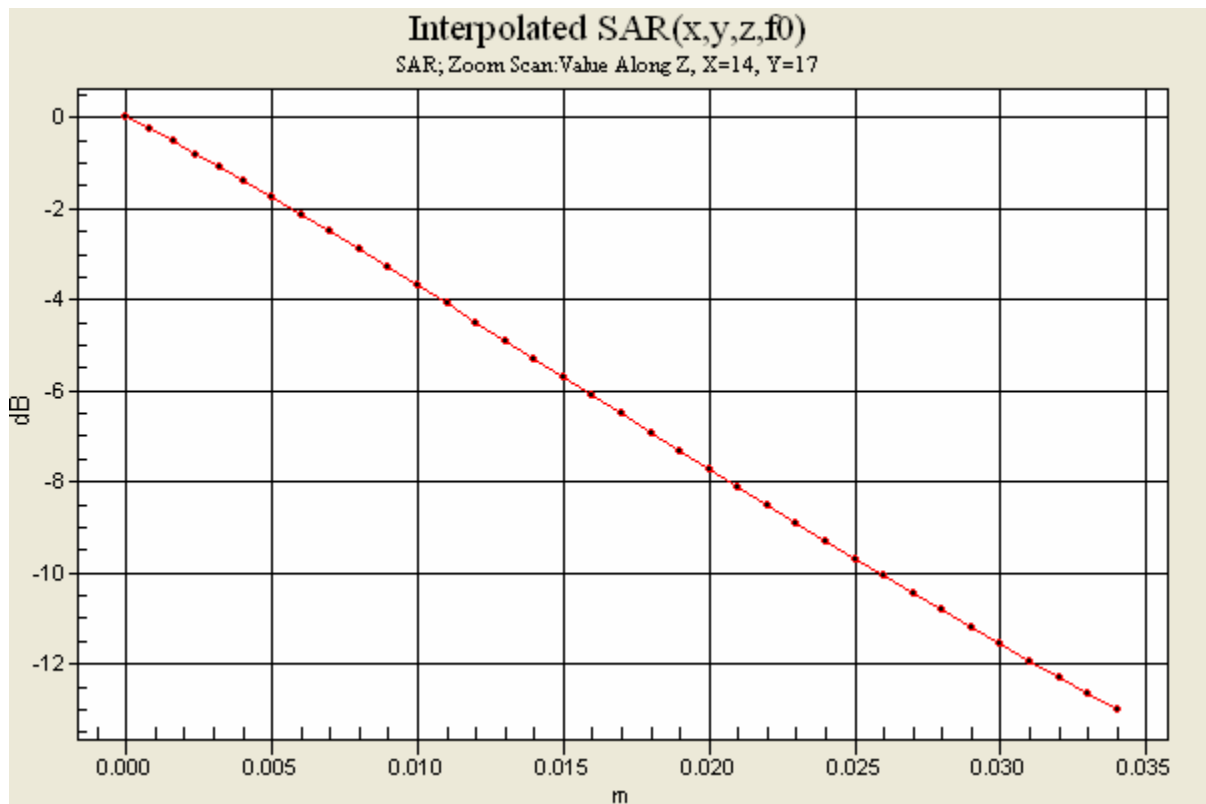
REPORT

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Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 002 W760c 02	
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0 dB = 0.193mW/g



APPLICANT: Sony Ericsson Mobile Communications Inc.

FCC ID: **PY7A1052101**



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Appendix 3

SAR distribution plots for Body Worn Configuration



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Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 002 W760c 02	
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Distribution of maximum SAR in 800 GSM band. Measured with back of device facing the body using a 15mm spacer. (Standard Battery, BST-38)

Date/Time: 4/8/2008 8:28:58 AM

File Name: [08Apr08_W760c_GSM835_0178_15mm_BB01.da4](#)

DUT: W760c body

Phantom: SAM with CRP (Low Band Body) Phantom section: Flat Section

Probe: ET3DV6 - SN1587 ConvF(6.55, 6.55, 6.55)

Medium parameters used (interpolated): $f = 849$ MHz; $\sigma = 1.03$ mho/m; $\epsilon_r = 52.3$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery - BST38 Humidity - 37.4 % Ambient Temp - 21.6 C Simulant Temp - 21.5 C

DASY4 Configuration:

- Probe: ET3DV6 - SN1587; ConvF(6.55, 6.55, 6.55); Calibrated: 5/23/2007

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn416; Calibrated: 11/12/2007

- Phantom: SAM with CRP (Low Band Body); Type: SAM; Serial: TP: 1031

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Unnamed procedure 3/Area Scan (51x81x1):

Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.723 mW/g

Unnamed procedure 3/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.0 V/m; Power Drift = -0.002 dB

Peak SAR (extrapolated) = 0.941 W/kg

SAR(1 g) = 0.683 mW/g; SAR(10 g) = 0.476 mW/g[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.733 mW/g

Unnamed procedure 3/Zoom Scan (31x31x36)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.0 V/m; Power Drift = -0.002 dB

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

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

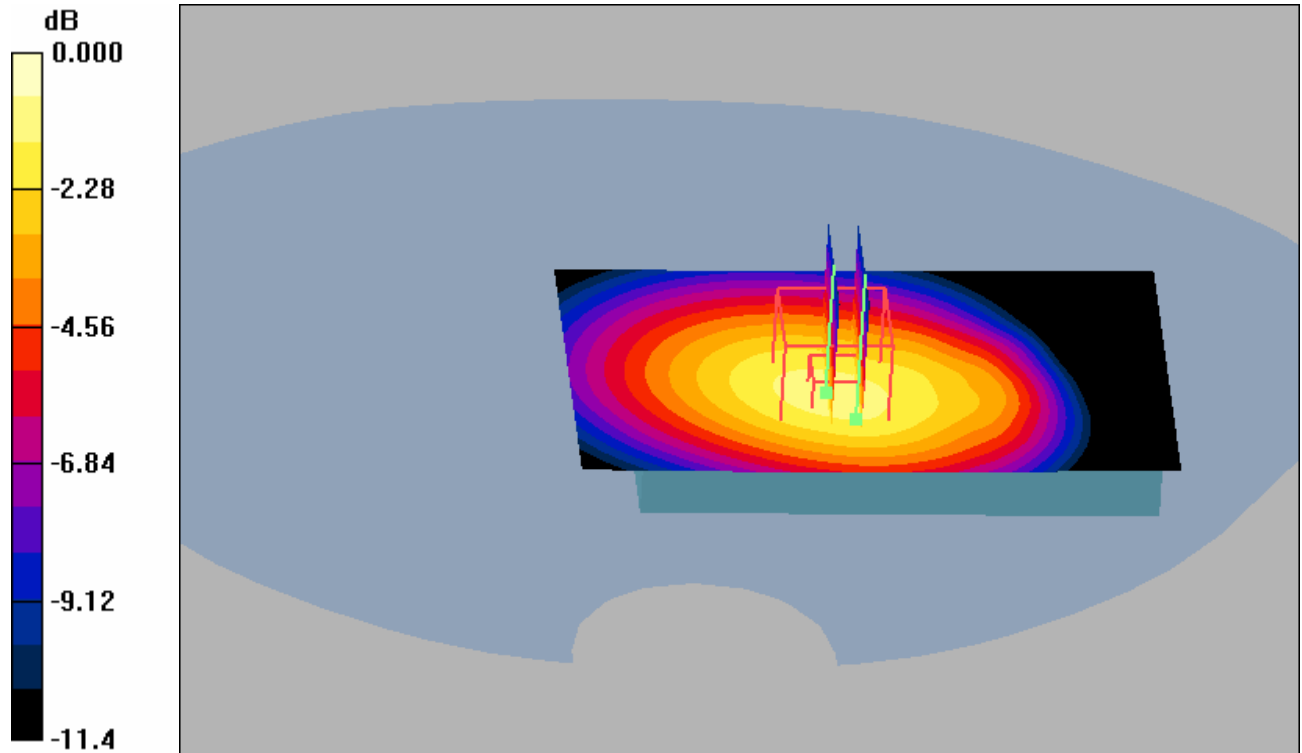


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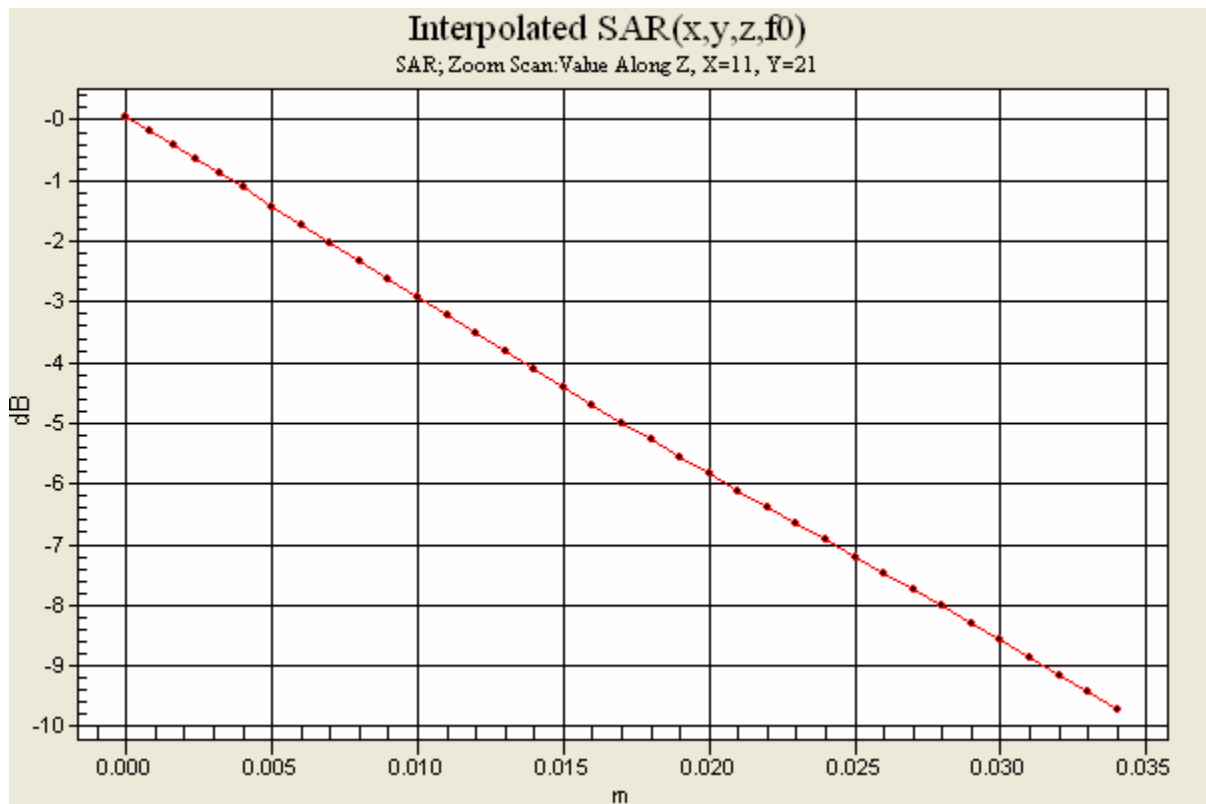
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0 dB = 0.941mW/g





Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 002 W760c 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	A	

Distribution of maximum SAR in 800 GSM band. Measured with back of device facing the body using the ICE30 case. (Standard Battery, BST-38)

Date/Time: 4/8/2008 10:25:47 AM

File Name: [08Apr08_W760c_GSM835_0178_ICE30_BB01.da4](#)

DUT: W760c body

Phantom: SAM with CRP (Low Band Body) Phantom section: Flat Section

Probe: ET3DV6 - SN1587 ConvF(6.55, 6.55, 6.55)

Medium parameters used (interpolated): $f = 849$ MHz; $\sigma = 1.03$ mho/m; $\epsilon_r = 52.3$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery - BST38 Humidity - 35.9 % Ambient Temp - 21.5 C Simulant Temp - 21.4 C

DASY4 Configuration:

- Probe: ET3DV6 - SN1587; ConvF(6.55, 6.55, 6.55); Calibrated: 5/23/2007

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn416; Calibrated: 11/12/2007

- Phantom: SAM with CRP (Low Band Body); Type: SAM; Serial: TP: 1031

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Unnamed procedure 3/Area Scan (51x81x1):

Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.765 mW/g

Unnamed procedure 3/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.5 V/m; Power Drift = -0.055 dB

Peak SAR (extrapolated) = 0.986 W/kg

SAR(1 g) = 0.724 mW/g; SAR(10 g) = 0.505 mW/g

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

Maximum value of SAR (measured) = 0.777 mW/g

Unnamed procedure 3/Zoom Scan (31x31x36)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.5 V/m; Power Drift = -0.055 dB

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

Maximum value of SAR (interpolated) = 0.986 mW/g

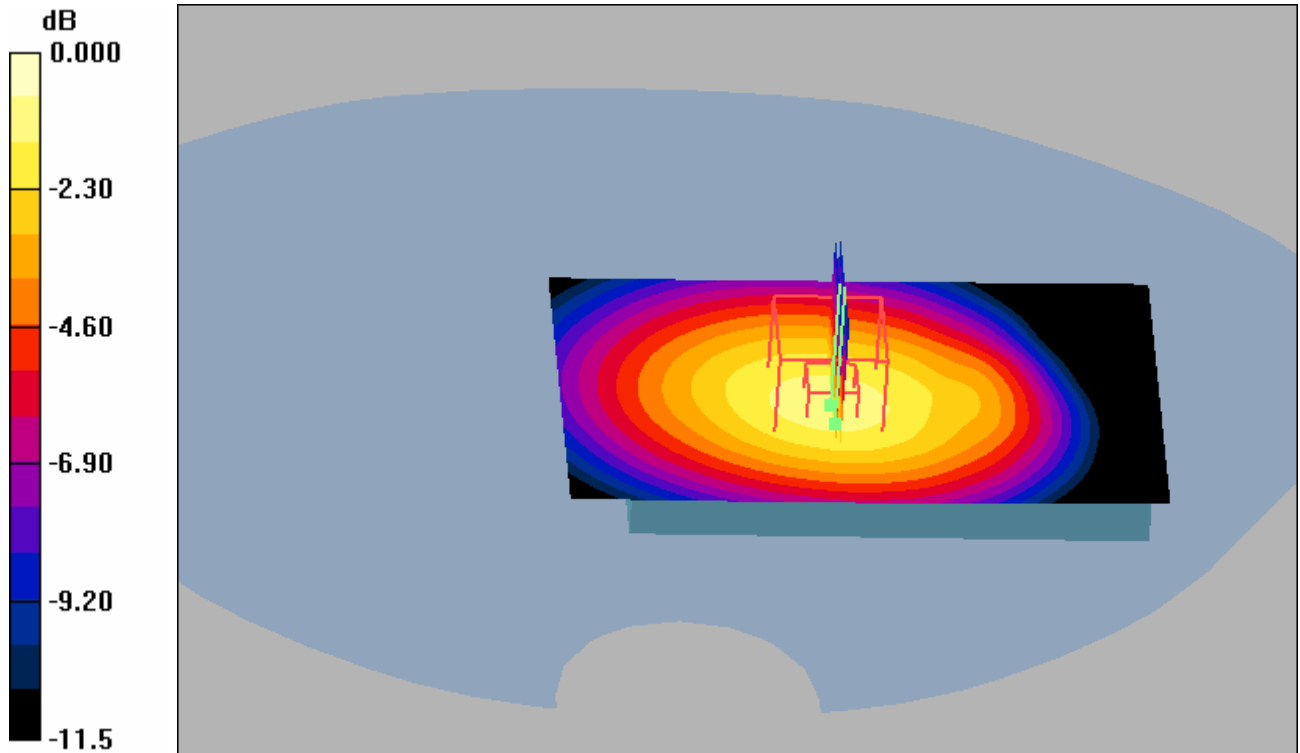


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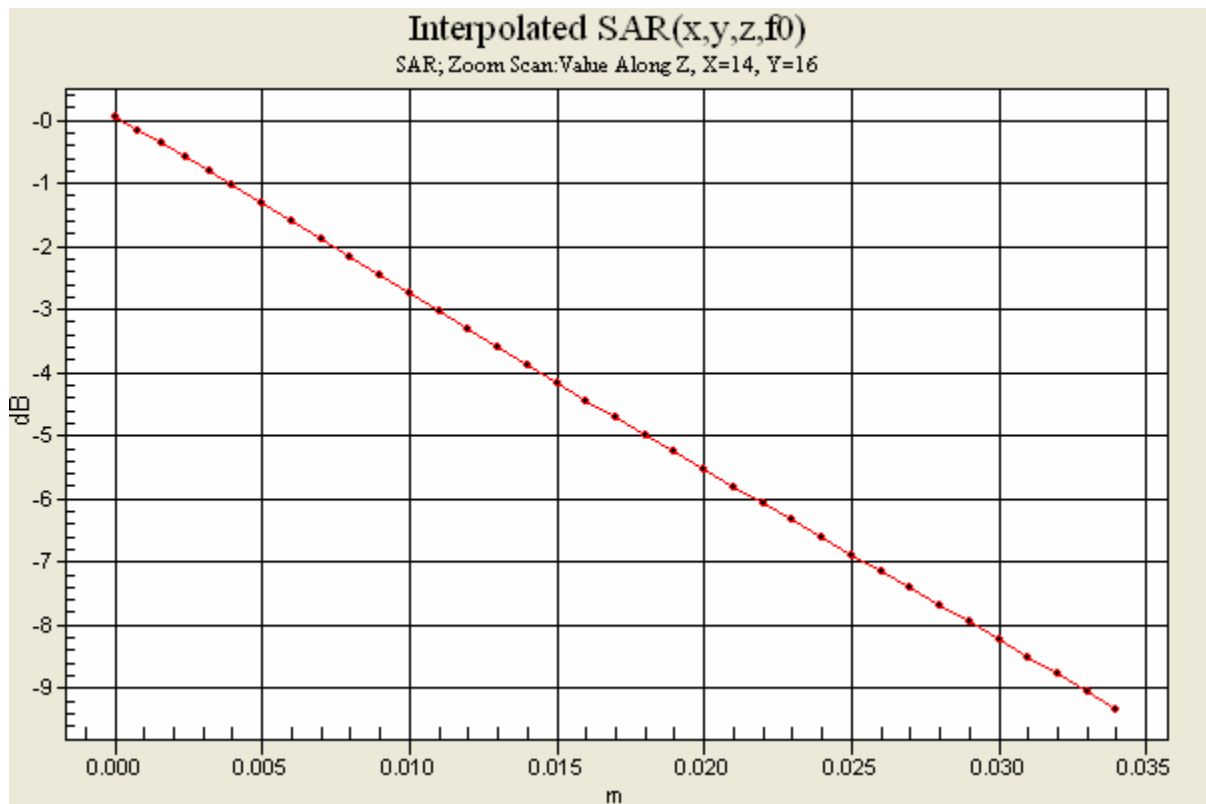
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0 dB = 0.986mW/g





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Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 002 W760c 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	A	

Distribution of maximum SAR in 1900 GSM band. Measured with back of device facing the body using a 15mm spacer. (Standard Battery, BST-38)

Date/Time: 4/7/2008 7:49:17 AM

File Name: [07Apr08_W760c_GSM1900_016W_15mm_BB01.da4](#)

DUT: W760c body

Phantom: SAM with CRP (High Band Body) Phantom section: Flat Section

Probe: ET3DV6 - SN1587ConvF(4.76, 4.76, 4.76)

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 51.7$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery - BST38 Humidity - 39.7 % Ambient Temp - 21.4 C Simulant Temp - 21.5 C

DASY4 Configuration:

- Probe: ET3DV6 - SN1587; ConvF(4.76, 4.76, 4.76); Calibrated: 5/23/2007

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn416; Calibrated: 11/12/2007

- Phantom: SAM with CRP (High Band Body); Type: SAM; Serial: TP: 1020

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Unnamed procedure/Area Scan (51x81x1):

Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.693 mW/g

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.26 V/m; Power Drift = -0.088 dB

Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.634 mW/g; SAR(10 g) = 0.373 mW/g[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.687 mW/g

Unnamed procedure/Zoom Scan (31x31x36)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.26 V/m; Power Drift = -0.088 dB

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

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

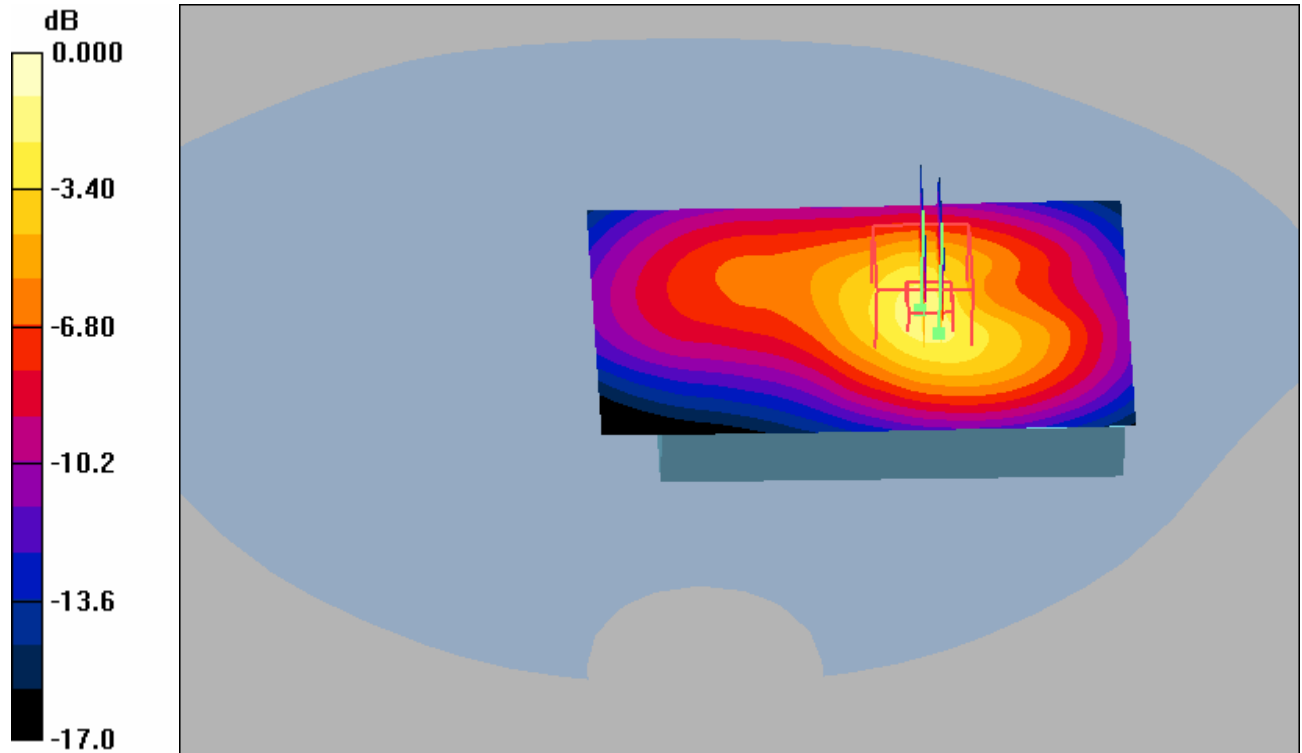


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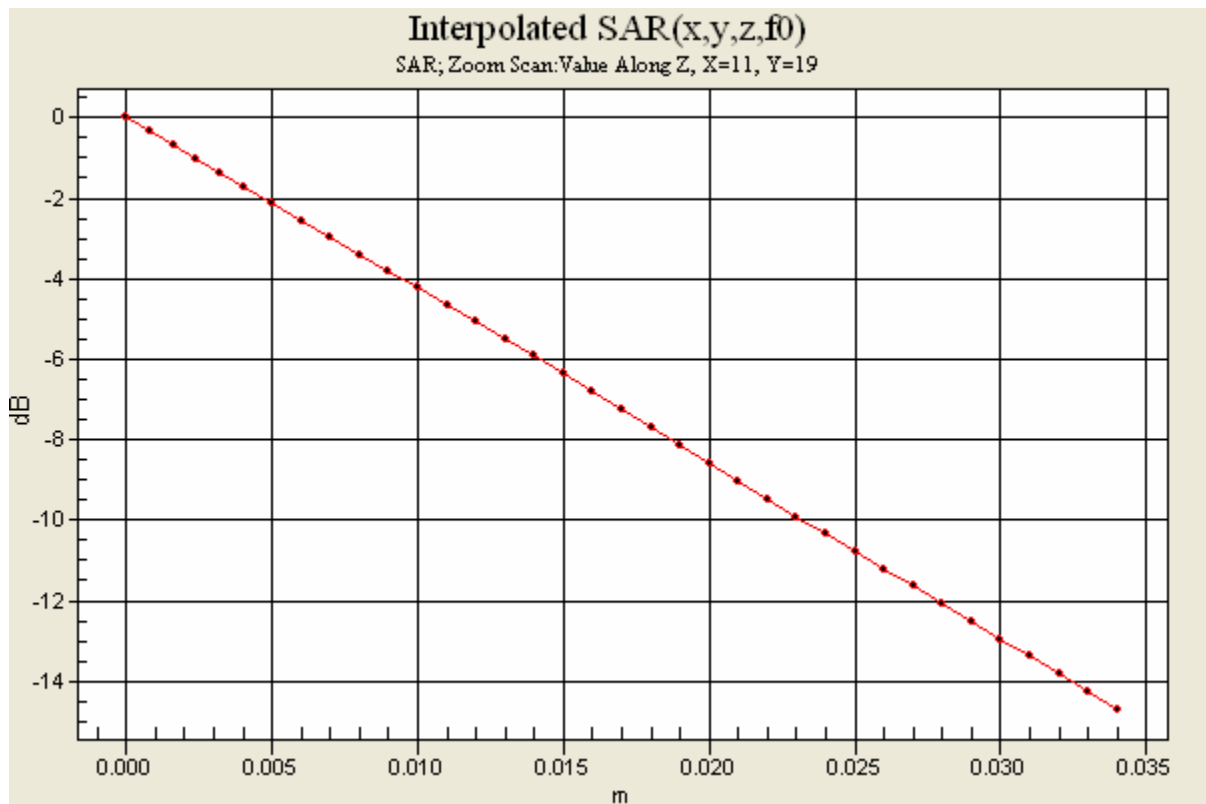
REPORT

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Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 002 W760c 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	A	



0 dB = 1.02mW/g





Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 002 W760c 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	A	

Distribution of maximum SAR in 1900 GSM band. Measured with back of device facing the body using the ICE30 case. (Standard Battery, BST-38)

Date/Time: 4/7/2008 10:33:20 AM

File Name: [07Apr08_W760c_GSM1900_016W_ICE30_BB01.da4](#)

DUT: W760c body

Phantom: SAM with CRP (High Band Body) Phantom section: Flat Section

Probe: ET3DV6 - SN1587ConvF(4.76, 4.76, 4.76)

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 51.7$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery - BST38 Humidity - 39.7 % Ambient Temp - 21.4 C Simulant Temp - 21.5 C

DASY4 Configuration:

- Probe: ET3DV6 - SN1587; ConvF(4.76, 4.76, 4.76); Calibrated: 5/23/2007

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn416; Calibrated: 11/12/2007

- Phantom: SAM with CRP (High Band Body); Type: SAM; Serial: TP: 1020

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Unnamed procedure/Area Scan (51x81x1):

Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.554 mW/g

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.2 V/m; Power Drift = -0.019 dB

Peak SAR (extrapolated) = 0.800 W/kg

SAR(1 g) = 0.504 mW/g; SAR(10 g) = 0.304 mW/g

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

Maximum value of SAR (measured) = 0.552 mW/g

Unnamed procedure/Zoom Scan (31x31x36)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.2 V/m; Power Drift = -0.019 dB

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

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

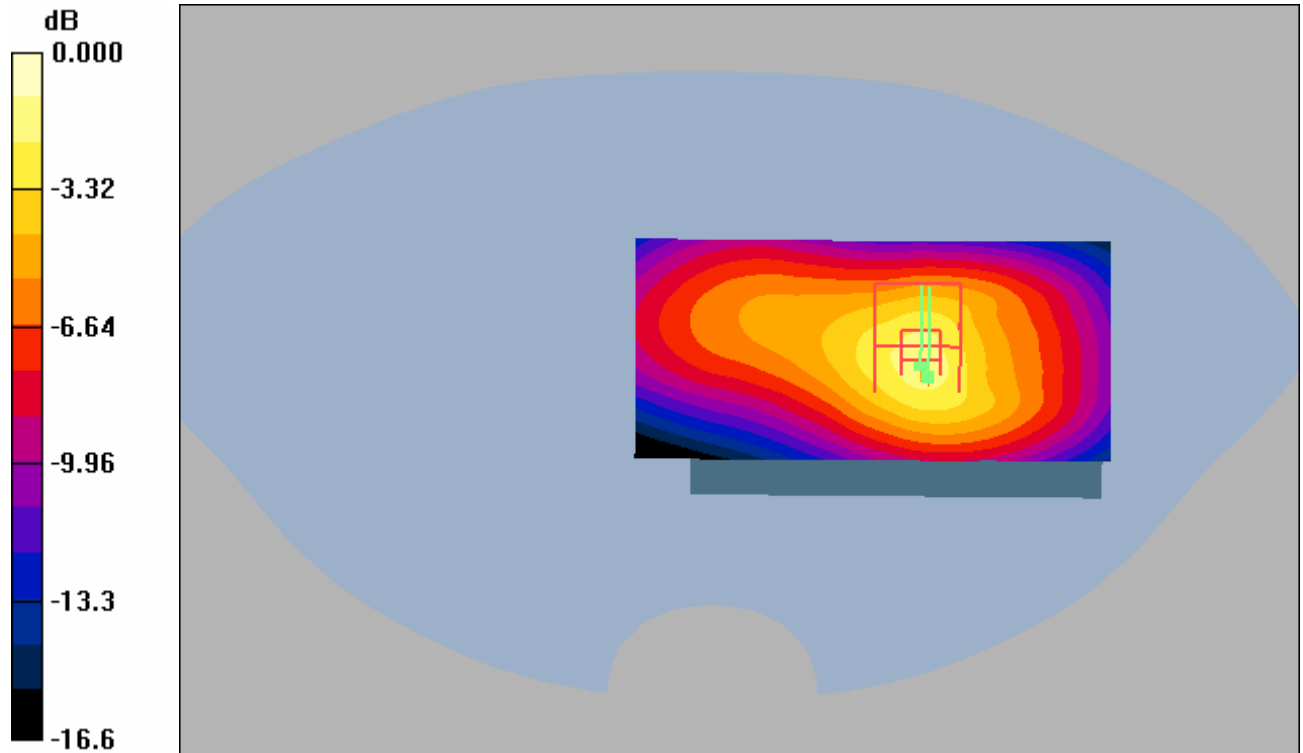


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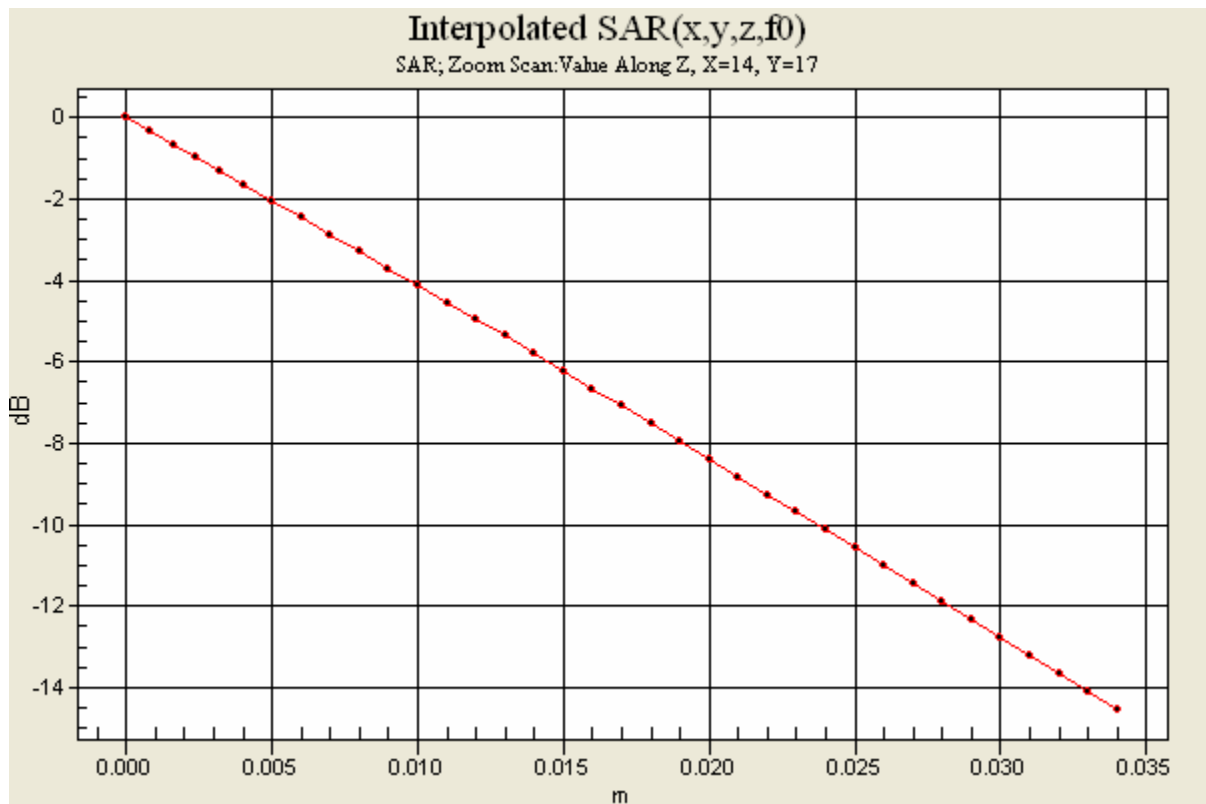
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0 dB = 0.800mW/g



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Appendix 4

Probe Calibration Certificates

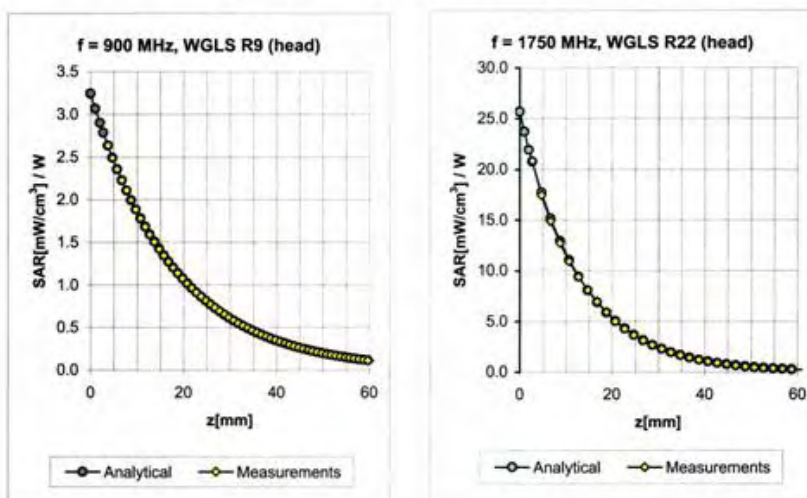


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ET3DV6 SN:1538

May 23, 2007

Conversion Factor Assessment



f [MHz]	Validity [MHz] ^c	TSL	Permittivity	Conductivity	Alpha	Depth	ConvF	Uncertainty
835	± 50 / ± 100	Head	41.5 ± 5%	0.90 ± 5%	0.75	1.70	6.36	± 11.0% (k=2)
900	± 50 / ± 100	Head	41.5 ± 5%	0.97 ± 5%	0.67	1.78	6.12	± 11.0% (k=2)
1750	± 50 / ± 100	Head	40.1 ± 5%	1.37 ± 5%	0.61	2.42	5.04	± 11.0% (k=2)
1900	± 50 / ± 100	Head	40.0 ± 5%	1.40 ± 5%	0.59	2.54	4.89	± 11.0% (k=2)
2450	± 50 / ± 100	Head	39.2 ± 5%	1.80 ± 5%	0.89	1.79	4.41	± 11.8% (k=2)
835	± 50 / ± 100	Body	55.2 ± 5%	0.97 ± 5%	0.70	1.83	6.20	± 11.0% (k=2)
900	± 50 / ± 100	Body	55.0 ± 5%	1.05 ± 5%	0.64	1.94	5.83	± 11.0% (k=2)
1750	± 50 / ± 100	Body	53.4 ± 5%	1.49 ± 5%	0.70	2.38	4.90	± 11.0% (k=2)
1900	± 50 / ± 100	Body	53.3 ± 5%	1.52 ± 5%	0.84	2.14	4.67	± 11.0% (k=2)
2450	± 50 / ± 100	Body	52.7 ± 5%	1.95 ± 5%	0.85	1.86	4.18	± 11.8% (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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ET3DV6 SN:1538

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DASY - Parameters of Probe: ET3DV6 SN:1538**Sensitivity in Free Space^A****Diode Compression^B**

NormX	1.30 ± 10.1%	$\mu\text{V}/(\text{V}/\text{m})^2$	DCP X	93 mV
NormY	1.27 ± 10.1%	$\mu\text{V}/(\text{V}/\text{m})^2$	DCP Y	83 mV
NormZ	1.36 ± 10.1%	$\mu\text{V}/(\text{V}/\text{m})^2$	DCP Z	95 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		3.7 mm	4.7 mm
SAR _{ce} [%]	Without Correction Algorithm	9.9	4.9
SAR _{ce} [%]	With Correction Algorithm	0.1	0.3

TSL 1750 MHz Typical SAR gradient: 10 % per mm

Sensor Center to Phantom Surface Distance		3.7 mm	4.7 mm
SAR _{ce} [%]	Without Correction Algorithm	13.9	8.9
SAR _{ce} [%]	With Correction Algorithm	0.8	0.0

Sensor Offset

Probe Tip to Sensor Center 2.7 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.

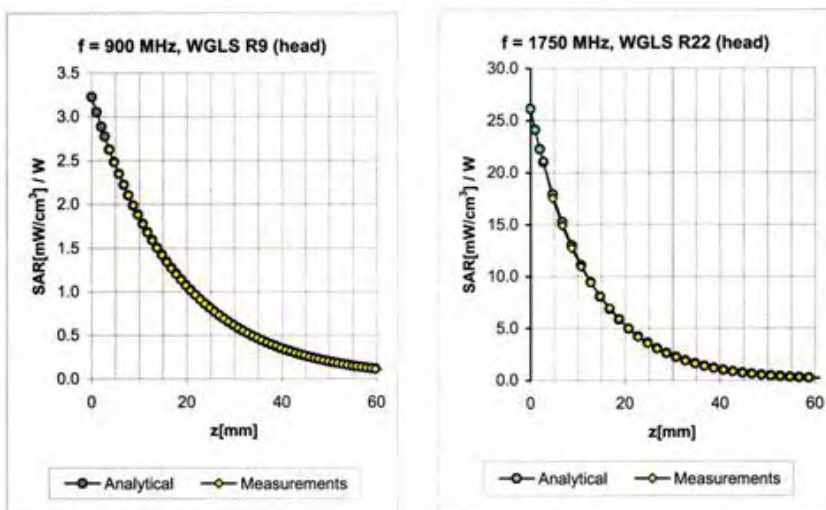


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ET3DV6 SN:1586

May 23, 2007

Conversion Factor Assessment



f [MHz]	Validity [MHz] ^c	TSL	Permittivity	Conductivity	Alpha	Depth	ConvF Uncertainty
835	± 50 / ± 100	Head	41.5 ± 5%	0.90 ± 5%	0.65	1.70	6.63 ± 11.0% (k=2)
900	± 50 / ± 100	Head	41.5 ± 5%	0.97 ± 5%	0.54	1.88	6.29 ± 11.0% (k=2)
1750	± 50 / ± 100	Head	40.1 ± 5%	1.37 ± 5%	0.57	2.58	5.39 ± 11.0% (k=2)
1900	± 50 / ± 100	Head	40.0 ± 5%	1.40 ± 5%	0.51	2.89	5.17 ± 11.0% (k=2)
2450	± 50 / ± 100	Head	39.2 ± 5%	1.80 ± 5%	0.68	2.11	4.77 ± 11.8% (k=2)
835	± 50 / ± 100	Body	55.2 ± 5%	0.97 ± 5%	0.51	1.98	6.43 ± 11.0% (k=2)
900	± 50 / ± 100	Body	55.0 ± 5%	1.05 ± 5%	0.47	2.13	6.03 ± 11.0% (k=2)
1750	± 50 / ± 100	Body	53.4 ± 5%	1.49 ± 5%	0.76	2.27	5.04 ± 11.0% (k=2)
1900	± 50 / ± 100	Body	53.3 ± 5%	1.52 ± 5%	0.91	2.03	4.80 ± 11.0% (k=2)
2450	± 50 / ± 100	Body	52.7 ± 5%	1.95 ± 5%	0.74	2.03	4.11 ± 11.8% (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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ET3DV6 SN:1586

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DASY - Parameters of Probe: ET3DV6 SN:1586**Sensitivity in Free Space^A****Diode Compression^B**

NormX	1.86 ± 10.1%	$\mu\text{V}/(\text{V}/\text{m})^2$	DCP X	96 mV
NormY	1.90 ± 10.1%	$\mu\text{V}/(\text{V}/\text{m})^2$	DCP Y	93 mV
NormZ	1.88 ± 10.1%	$\mu\text{V}/(\text{V}/\text{m})^2$	DCP Z	95 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		3.7 mm	4.7 mm
SAR _{tot} [%]	Without Correction Algorithm	8.2	4.4
SAR _{tot} [%]	With Correction Algorithm	0.1	0.2

TSL 1750 MHz Typical SAR gradient: 10 % per mm

Sensor Center to Phantom Surface Distance		3.7 mm	4.7 mm
SAR _{tot} [%]	Without Correction Algorithm	12.2	8.2
SAR _{tot} [%]	With Correction Algorithm	0.8	0.1

Sensor OffsetProbe Tip to Sensor Center **2.7 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.

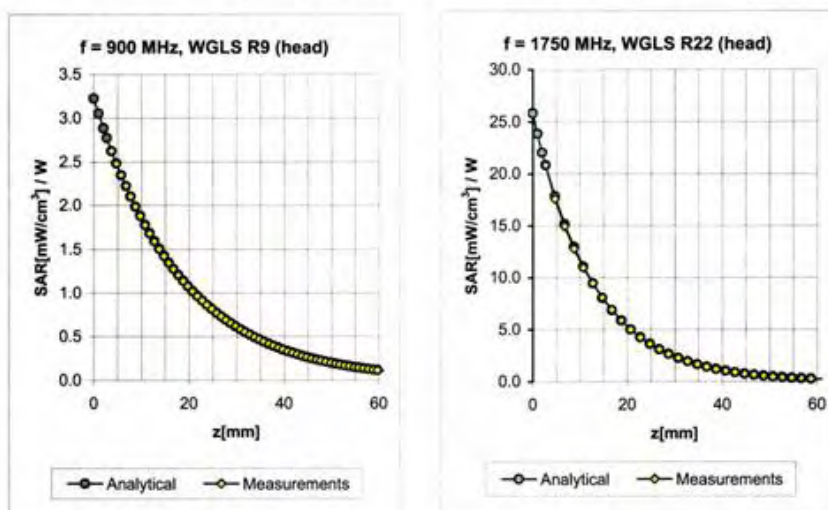


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ET3DV6 SN:1587

May 23, 2007

Conversion Factor Assessment



f [MHz]	Validity [MHz] ^c	TSL	Permittivity	Conductivity	Alpha	Depth	ConvF Uncertainty
835	± 50 / ± 100	Head	41.5 ± 5%	0.90 ± 5%	0.59	1.77	6.71 ± 11.0% (k=2)
900	± 50 / ± 100	Head	41.5 ± 5%	0.97 ± 5%	0.57	1.78	6.44 ± 11.0% (k=2)
1750	± 50 / ± 100	Head	40.1 ± 5%	1.37 ± 5%	0.49	2.62	5.25 ± 11.0% (k=2)
1900	± 50 / ± 100	Head	40.0 ± 5%	1.40 ± 5%	0.46	2.86	5.04 ± 11.0% (k=2)
2450	± 50 / ± 100	Head	39.2 ± 5%	1.80 ± 5%	0.61	2.03	4.59 ± 11.8% (k=2)
835	± 50 / ± 100	Body	55.2 ± 5%	0.97 ± 5%	0.49	2.00	6.55 ± 11.0% (k=2)
900	± 50 / ± 100	Body	55.0 ± 5%	1.05 ± 5%	0.47	2.09	6.16 ± 11.0% (k=2)
1750	± 50 / ± 100	Body	53.4 ± 5%	1.49 ± 5%	0.61	2.47	5.01 ± 11.0% (k=2)
1900	± 50 / ± 100	Body	53.3 ± 5%	1.52 ± 5%	0.70	2.30	4.76 ± 11.0% (k=2)
2450	± 50 / ± 100	Body	52.7 ± 5%	1.95 ± 5%	0.54	2.38	4.09 ± 11.8% (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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ET3DV6 SN:1587

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DASY - Parameters of Probe: ET3DV6 SN:1587**Sensitivity in Free Space^A****Diode Compression^B**

NormX	2.09 ± 10.1%	$\mu\text{V}/(\text{V}/\text{m})^2$	DCP X	92 mV
NormY	1.88 ± 10.1%	$\mu\text{V}/(\text{V}/\text{m})^2$	DCP Y	100 mV
NormZ	1.79 ± 10.1%	$\mu\text{V}/(\text{V}/\text{m})^2$	DCP Z	95 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		3.7 mm	4.7 mm
SAR _{tot} [%]	Without Correction Algorithm	7.8	4.1
SAR _{tot} [%]	With Correction Algorithm	0.0	0.2

TSL 1750 MHz Typical SAR gradient: 10 % per mm

Sensor Center to Phantom Surface Distance		3.7 mm	4.7 mm
SAR _{tot} [%]	Without Correction Algorithm	12.4	8.5
SAR _{tot} [%]	With Correction Algorithm	0.5	0.1

Sensor OffsetProbe Tip to Sensor Center **2.7 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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Appendix 5

Measurement Uncertainty Budget



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Table 1. Uncertainty Budget for System Performance Check (Dipole & flat phantom) DASY4 System

<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	$e = f(d,k)$	<i>f</i>	<i>g</i>	$h = c \times f / e$	$i = c \times g / e$	<i>k</i>
Uncertainty Component	Sec.	Tol. (± %)	Prob. Dist.	Div.	c_i (1-g)	c_i (10-g)	1-g u_i (±%)	10-g u_i (±%)	v_i
Measurement System									
Probe Calibration ($k=1$)	E2.1	4.7	R	1.73	0.707	0.707	1.9	1.9	∞
Axial Isotropy	E.2.2	9.6	R	1.73	0.707	0.707	3.9	3.9	∞
Hemispherical Isotropy	E.2.2	1.0	R	1.73	1	1	0.6	0.6	∞
Boundary Effect	E.2.3	4.7	R	1.73	1	1	2.7	2.7	∞
Linearity	E.2.4	1.0	R	1.73	1	1	0.6	0.6	∞
System Detection Limits	E.2.5	1.0	N	1	1	1	1.0	1.0	∞
Readout Electronics	E.2.6	0.8	R	1.73	1	1	0.5	0.5	∞
Response Time	E.2.7	2.6	R	1.73	1	1	1.5	1.5	∞
Integration Time	E.2.8	4.7	R	1.73	0.707	0.707	1.9	1.9	∞
RF Ambient Conditions	E.6.1	3.0	R	1.73	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance (corresponds to the mechanical constraints of the robot)	E.6.2	0.4	R	1.73	1	1	0.2	0.2	∞
Probe Positioning with respect to Phantom Shell	E.6.3	2.9	R	1.73	1	1	1.7	1.7	∞
Extrapolation, interpolation and Integration Algorithms for Max. SAR Evaluation	E.5	1.0	R	1.73	1	1	0.6	0.6	∞
Dipole									
Dipole Axis to Liquid Distance	8, E.4.2	1.0	R	1.73	1	1	0.6	0.6	∞
Input Power and SAR Drift Measurement	8, 6.6.2	5.0	R	1.73	1	1	2.9	2.9	∞
Phantom and Tissue Parameters									
Phantom Uncertainty - shell thickness tolerance	E.3.1	4.0	R	1.73	1	1	2.3	2.3	∞
Liquid Conductivity - deviation from target values (5)	E.3.2	4.3	R	1.73	0.64	0.43	1.59	1.07	∞
Liquid Conductivity - measurement uncertainty (6)	E.3.3	6.20	R	1.73	0.64	0.43	2.29	1.54	∞

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Liquid Permittivity - deviation from target values (5)	E.3.2	3.7	R	1.73	0.6	0.49	1.28	1.05	∞
Liquid Permittivity - measurement uncertainty (6)	E.3.3	6.08	R	1.73	0.6	0.49	2.11	1.72	∞
Combined Standard Uncertainty			RSS				9.37	9.03	
Expanded Uncertainty (95% C.L.)							18.74	18.05	



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Table 2: Uncertainty Budget for the Device Under Test with DASY4 System

<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	$e = f(d,k)$	<i>f</i>	<i>g</i>	$h = c \times f / e$	$i = c \times g / e$	<i>k</i>
Uncertainty Component	Sec.	Tol. (± %)	Prob. Dist.	Div.	c_i (1-g)	c_i (10-g)	1-g u_i (±%)	10-g u_i (±%)	v_i
Measurement System									
Probe Calibration ($k=1$)	E2.1	4.8	N	1	1	1	4.8	4.8	∞
Axial Isotropy	E.2.2	4.7	R	1.73	0.707	0.707	1.9	1.9	∞
Hemispherical Isotropy	E.2.2	9.6	R	1.73	0.707	0.707	3.9	3.9	∞
Boundary Effect	E.2.3	1.0	R	1.73	1	1	0.6	0.6	∞
Linearity	E.2.4	4.7	R	1.73	1	1	2.7	2.7	∞
System Detection Limits	E.2.5	1.0	R	1.73	1	1	0.6	0.6	∞
Readout Electronics	E.2.6	1.0	N	1	1	1	1.0	1.0	∞
Response Time	E.2.7	0.8	R	1.73	1	1	0.5	0.5	∞
Integration Time	E.2.8	2.6	R	1.73	1	1	1.5	1.5	∞
RF Ambient Conditions	E.6.1	3.0	R	1.73	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance (corresponds to the mechanical constraints of the robot)	E.6.2	0.4	R	1.73	1	1	0.2	0.2	∞
Probe Positioning with respect to Phantom Shell	E.6.3	2.9	R	1.73	1	1	1.7	1.7	∞
Extrapolation, interpolation and Integration Algorithms for Max. SAR Evaluation	E.5	1.0	R	1.73	1	1	0.6	0.6	∞
Test sample Related									
Test Sample Positioning	E.4.2	5.0	N	1	1	1	5.0	5.0	4
Device Holder Uncertainty	E.4.1	5.0	R	1.73	1	1	2.9	2.9	4
Output Power Variation - SAR drift measurement (4)	6.6.2	5.0	R	1.73	1	1	2.9	2.9	∞
Phantom and Tissue Parameters									
Phantom Uncertainty (shape and thickness tolerances)	E.3.1	4.0	R	1.73	1	1	2.3	2.3	∞

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Liquid Conductivity - deviation from target values (5)	E.3.2	4.3	R	1.73	0.64	0.43	1.6	1.1	∞
Liquid Conductivity - measurement uncertainty (6)	E.3.3	6.20	R	1.73	0.64	0.43	2.3	1.5	∞
Liquid Permittivity - deviation from target values (5)	E.3.2	3.7	R	1.73	0.6	0.49	1.3	1.0	∞
Liquid Permittivity - measurement uncertainty (6)	E.3.3	6.08	R	1.73	0.6	0.49	2.1	1.7	∞
Combined Standard Uncertainty			RSS				11.0	10.7	
Expanded Uncertainty (95% CONFIDENCE LEVEL)			K=2				22.0	21.4	

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Table 3a. Values for ϵ'

Uncertainty Component	Tolerance (±%)	Probability Distribution	Divisor	c_i	Standard Uncertainty (±%)	v_i or v_{eff}
Repeatability (n repeats)	0.97	N	1	1	0.97	4
Network analyzer uncertainty sources	8.38	R	1.73	1	4.83	∞
Dielectric Error Sources	5.93	R	1.73	1	3.42	∞
Combined standard uncertainty					6.08	

Table 3b. Values for σ

Uncertainty Component	Tolerance (±%)	Probability Distribution	Divisor	c_i	Standard Uncertainty (±%)	v_i or v_{eff}
Repeatability (n repeats)	1.85	N	1	1	1.85	4
Network analyzer uncertainty sources	8.38	R	1.73	1	4.83	∞
Dielectric Error Sources	5.93	R	1.73	1	3.42	∞
Combined standard uncertainty					6.20	

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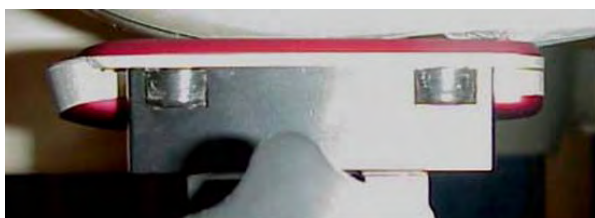
Appendix 6

Photographs of the Device Under Test

Front:**Back:****Side:**



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Position of device against head phantom using the “cheek” position**“cheek/touch” position****“tilt” position****Position with device against flat phantom using an ICE30 carry case with hands free accessory.****Front of device against flat phantom****Back of device against flat phantom.****Position with device against flat phantom using a 15mm spacer with hands free accessory.****Front of device against flat phantom****Back of device against flat phantom.**



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Accessory: ICE30 front.



ICE30 back.



Handsfree Accessory: