



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 001 W760i 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	14 April 2008	A

**Exhibit 11: SAR Test Report of Portable Cellular Phone
FCC ID: PY7A3252041 Model : W760i**

Date of test: March 12 – April 12, 2008
Date of Report: April 14, 2008

Laboratory: SAR Testing Laboratory Sony Ericsson Mobile Communications, Inc. 7001
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Test Responsible: Gerard Hayes *Gerard Hayes 14 April 2008*
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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 PY7A3252041 model W760i 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 PY7A3252041 model W760i. 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	PY7A3252041 / W760i	
Hardware Revision #	AP2	
Software Revision #	R3BA007	
Mode(s) of Operation Transmitting Frequency Range		Serial number of Device Tested
	GSM/GPRS/EDGE 824-849 MHz	BDX0002FAE
	GSM/GPRS/EDGE 1850-1910 MHz	BDX0002ER6
	UMTS/HSDPA Band V (824-849 MHz)	BDX0002FAE
	UMTS/HSDPA Band II (1850-1910 MHz)	BDX0002FBT
Production Unit or Identical Prototype (47 CFR §2..908)	Identical Prototype	
Device Category	Portable	
RF Exposure Limits	General Population / Uncontrolled	

GSM	Target Value and Factory Tolerance Window for Maximum Output Power Setting	850 MHz		1900 MHz	
		f_{low}	31.77 dBm +0.53/-0.53 dB		
	f_{mid}	31.77 dBm +0.53/-0.53 dB			29.25 dBm +0.75/-0.75 dB
	f_{high}	31.77 dBm +0.53/-0.53 dB			29.25 dBm +0.75/-0.75 dB
Calibration Frequency (f_{low}, f_{mid}, f_{high})		f_{low} , f_{mid} , f_{high}		f_{low} , f_{mid} , f_{high}	
Duty Cycle		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	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
	Calibration Frequency ($f_{low}, f_{mid}, f_{high}$)		$f_{low}, f_{mid}, f_{high}$		
Duty Cycle		1/4			1/4
EGPRS		850 MHz			1900 MHz
Target Value and Factory Tolerance Window for Maximum Output Power Setting	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
	Calibration Frequency ($f_{low}, f_{mid}, f_{high}$)		$f_{low}, f_{mid}, f_{high}$		
Duty Cycle		1/4			1/4
W-CDMA (Circuit Switched, UMTS Mode)		850 MHz Band V			1900 MHz Band II
Target Value and Factory Tolerance Window for Maximum Output Power Setting	f_{low}	22.8 dBm + 0.5/- 0.5 dB			22.5 dBm + 0.5 - 0.5
	f_{mid}	22.8 dBm + 0.5 - 0.5			22.5 dBm + 0.5 - 0.5
	f_{high}	22.8 dBm + 0.5 - 0.5			22.5 dBm + 0.5 - 0.5
	Calibration Frequency ($f_{low}, f_{mid}, f_{high}$)		$f_{low}, f_{mid}, f_{high}$		
Duty Cycle		1/1			1/1
RMC 12.2, $\beta c=8, \beta d=15$					



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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 ±11.0 % (K=1) with an expanded uncertainty of ±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, DV900V2	035	24-May-2008
Dipole Validation Kit, DV1800V2	217	20-Nov-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 900MHz (Head and Body)	1023/1251	
S.A.M. Phantom used for 1800MHz (Head and Body)	1054/1335	
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	March 12, 2008	41.6	0.9092	22
		March 31, 2008	40.29	0.8952	21.3
		April 12, 2008	42.50	0.916	21.6
		Recommended Limits	41.5	0.9	20-25
	Body	April 1, 2008	52.76	1.016	22
		March 14, 2008	52.67	1.016	21
		Recommended Limits	55.2	0.97	20-25
1900	Head	March 12, 2008	38.19	1.468	22
		March 31, 2008	38.31	1.468	21.5
		April 1, 2008	38.18	1.454	22
		Recommended Limits	40	1.4	20-25
	Body	March 12, 2008	50.87	1.55	22
		March 15, 2008	50.79	1.555	22
		April 3, 2008	50.67	1.563	21.7
		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%	--	--

5. System Accuracy Verification



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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.

f (MHz)	Tissue Type	Date Measured	SAR (W/kg)		Dielectric Parameters		Tissue Temp (°C)
			1g	10g	ε _r	σ (S/m)	
835	Head	Mar-12-08	8.73	5.68	41.6	0.91	22
		Mar-31-08	9.48	6.19	40.29	0.90	21.3
		Apr-12-08	9.41	6.15	42.5	0.92	21.6
		Mar-18-08	9.35	6.10	41.18	0.90	22.6
		Recommended Limits	9.50	6.20	41.50	0.90	20-25
	Body	Apr-01-08	10.11	6.64	52.76	1.02	22
		Mar-14-08	10.06	6.58	52.67	1.02	21
		Recommended Limits	9.90	6.46	55.20	0.97	20-25
1900	Head	Mar-12-08	41.64	21.82	38.19	1.47	22
		Mar-31-08	38.90	20.40	38.31	1.47	21.5
		Apr-01-08	38.96	20.55	38.18	1.45	22
		Mar-15-08	38.94	20.37	38.1	1.46	21.7
		Mar-18-08	38.47	20.20	38.32	1.46	22
		Apr-02-08	38.40	20.28	38.01	1.45	21.7
	Recommended Limits	39.7	20.5	40	1.4	20-25	
	Body	Mar-12-08	39.80	21.25	50.87	1.55	22
		Mar-15-08	39.05	20.85	50.79	1.56	22
		Apr-03-08	39.91	21.27	50.67	1.56	21.7
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 0.00044 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.

HSDPA Considerations

As per TCB/FCC guidance, the conducted power of the device was confirmed in two UMTS circuit switched modes (RMC and Voice) and four HSDPA modes. A CMU-200 was used to establish the call processing and modulation settings and an RF power meter was used for the measurements. For all HSDPA measurements, the following settings were applied:

$$H\text{-SET3 QPSK, CQI feedback} = 2\text{msec, } \Delta\text{ACK} = \Delta\text{NACK} = \Delta\text{CQI} = 8$$

The results (including relevant CMU modulation settings) are presented in the Table 6.0. As seen in the table, the conducted power measurements for the HSDPA modes were equal or below the circuit switched modes for each frequency/channel.

Table 6.0: Conducted Power Summary for UMTS - HSDPA Modes

Band II							
	Settings			Frequency (MHz):	1852.4	1880	1907.6
	β_c	β_d	ΔHS	max (dBm)			
CS-RMC	8	15	-	measured (dBm)	23.0	23.0	23.0
CS-Voice	8	15	-	measured (dBm)	22.9	22.8	22.8
HSDPA - 1	2	15	8	measured (dBm)	22.6	22.6	22.7
HSDPA - 2	12	15	8	measured (dBm)	22.0	22.0	22.0
HSDPA - 3	15	8	8	measured (dBm)	21.1	21.1	21.1
HSDPA - 4	15	4	8	measured (dBm)	20.1	20.1	20.1

Band V							
	Settings			Frequency (MHz):	826.4	835	846.6
	β_c	β_d	ΔHS	max (dBm)			
CS-RMC	8	15	-	measured (dBm)	23.3	23.3	23.3
CS-Voice	8	15	-	measured (dBm)	23.1	23.1	23.1
HSDPA - 1	2	15	8	measured (dBm)	22.9	22.9	22.9
HSDPA - 2	12	15	8	measured (dBm)	22.3	22.2	22.3
HSDPA - 3	15	8	8	measured (dBm)	21.4	21.4	21.4
HSDPA - 4	15	4	8	measured (dBm)	20.3	20.3	20.3

For head measurements, the units were measured in the following voice modes which correspond to the operating conditions with the highest conducted power:

- GSM with a 1/8 duty cycle
- UMTS (circuit switched) with RMC=12.2, $\beta_c=8$, and $\beta_d=15$

In all configurations, tests were conducted with Bluetooth functionality turned off. Then for each band and mode, using the test configuration/position that yielded the highest SAR value, the measurements were repeated with Bluetooth enabled.



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For body measurements, the units were measured in the following data modes which correspond to the operating conditions with the highest conducted power:

- E/GPRS (Multislot, Class 10) with a 1/4 duty cycle
- UMTS (circuit switched) with RMC=12.2, $\beta_c=8$, and $\beta_d=15$

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 PY7A3252041 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 8 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.



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f(MHz)	Channel/ frequency	Conducted Output Power (dBm)	FCC ID PY7A3252041 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	32.0	0.14	0.10	-0.06	0.14	0.11	22.1	22
	189 / 837	32.1	0.15	0.11	0.01	0.15	0.11		
	251 / 849	32.1	0.19	0.14	0.01	0.20	0.15		
1900 GSM	512 / 1850	29.9	0.39	0.25	-0.04	0.39	0.25	22.1	22
	660/1880	30.0	0.33	0.21	-0.05	0.33	0.21		
	810/1910	29.8	0.32	0.19	-0.06	0.32	0.19		
f(MHz)	Channel/ frequency	Conducted Output Power (dBm)	FCC ID PY7A3252041 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	32.0						22.1	22
	189 / 837	32.1	0.09	0.07	0.01	0.09	0.07		
	251 / 849	32.1							
1900 GSM	512 / 1850	29.9						22.1	22
	660/1880	30.0	0.20	0.12	-0.04	0.20	0.12		
	810/1910	29.8							

Table 1: SAR measurement results for the portable cellular telephone FCC ID PY7A3252041 model W760i 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 PY7A3252041 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	32.0	0.19	0.13	0.01	0.20	0.13	22.2	22
	189 / 837	32.1	0.20	0.13	-0.03	0.21	0.14		
	251 / 849	32.1	0.24	0.16	0.02	0.25	0.17		
1900 GSM	512 / 1850	29.9	0.67	0.39	0.04	0.67	0.39	22.2	22
	660/1880	30.0	0.51	0.29	0.01	0.51	0.29		
	810/1910	29.8	0.44	0.26	-0.05	0.44	0.26		
f(MHz)	Channel/ frequency	Conducted Output Power (dBm)	FCC ID PY7A3252041 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	32.0						22.2	22
	189 / 837	32.1	0.11	0.08	-0.01	0.12	0.09		
	251 / 849	32.1							
1900 GSM	512 / 1850	29.9						22.2	22
	660/1880	30.0	0.17	0.10	0.01	0.17	0.10		
	810/1910	29.8							

Table 2: SAR measurement results for the portable cellular telephone FCC ID PY7A3252041 model W760i 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 PY7A3252041 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	32.0	0.24	0.18	-0.01	0.25	0.18	22.9	22.6
	189 / 837	32.1	0.23	0.17	0.11	0.24	0.17		
	251 / 849	32.1	0.25	0.19	0.03	0.26	0.19		
1900 GSM	512 / 1850	29.9						22.2	22.0
	660/1880	30.0	0.29	0.17	0.04	0.29	0.17		
	810/1910	29.8							
f(MHz)	Channel/ frequency	Conducted Output Power (dBm)	FCC ID PY7A3252041 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	32.0						22.9	22.6
	189 / 837	32.1	0.15	0.11	-0.01	0.15	0.11		
	251 / 849	32.1							
1900 GSM	512 / 1850	29.9						22.2	22.0
	660/1880	30.0	0.13	0.07	-0.04	0.13	0.07		
	810/1910	29.8							

Table 3: SAR measurement results for the portable cellular telephone FCC ID PY7A3252041 model W760i 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 PY7A3252041 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	32.0	0.22	0.17	-0.05	0.23	0.17	22.9	22.6
	189 / 837	32.1	0.18	0.14	-0.06	0.19	0.15		
	251 / 849	32.1	0.26	0.19	-0.03	0.27	0.20		
1900 GSM	512 / 1850	29.9						22.2	22
	660/1880	30.0	0.21	0.13	-0.10	0.21	0.13		
	810/1910	29.8							
f(MHz)	Channel/ frequency	Conducted Output Power (dBm)	FCC ID PY7A3252041 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	32.0						22.9	22.6
	189 / 837	32.1	0.12	0.09	0.00	0.12	0.09		
	251 / 849	32.1							
1900 GSM	512 / 1850	29.9						22.2	22
	660/1880	30.0	0.14	0.08	-0.05	0.14	0.08		
	810/1910	29.8							

Table 4: SAR measurement results for the portable cellular telephone FCC ID PY7A3252041 model W760i at maximum output power with Standard Battery BST-38. Measured OPEN against the RIGHT head in GSM mode.



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 001 W760i 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	14 April 2008	A

f(MHz)	Channel/ frequency	Conducted Output Power (dBm)	FCC ID PY7A3252041 with Standard Battery BST-38						
			UMTS Left Head Position (Cheek / Touch Position)						
			UMTS Duty Cycle	Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		Ambient Temp (°C)
Band V	4133/826.6	23.1	0.192	0.139	0.03	0.20	0.14	21.5	21.3
	4175/835	23.1	0.23	0.167	0.01	0.24	0.17		
	4232/846.4	23.1	0.24	0.173	-0.01	0.25	0.18		
Band II	9263/1852.6	22.9	0.636	0.427	-0.14	0.65	0.44	22.1	22
	9400/1880	22.8	0.686	0.418	-0.03	0.70	0.43		
	9537/1907.4	22.8	0.663	0.392	-0.04	0.68	0.40		

f(MHz)	Channel/ frequency	Conducted Output Power (dBm)	FCC ID PY7A3252041 with Standard Battery BST-38						
			UMTS Left Head Position (15° Tilt Position)						
			UMTS Duty Cycle	Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		Ambient Temp (°C)
Band V	4133/826.6	23.1						21.5	21.3
	4175/835	23.1	0.156	0.115	0.00	0.16	0.12		
	4232/846.4	23.1							
Band II	9263/1852.6	22.9						22.1	22
	9400/1880	22.8	0.398	0.238	-0.02	0.41	0.24		
	9537/1907.4	22.8							

Table 5: UMTS SAR measurement results for the portable cellular telephone FCC ID PY7A3252041 model W760i at maximum output power with Standard Battery BST-38. Measured CLOSED against the LEFT head in UMTS mode.



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 001 W760i 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	14 April 2008	A

f(MHz)	Channel/ frequency	Conducted Output Power (dBm)	FCC ID PY7A3252041 with Standard Battery BST-38						
			UMTS Right Head Position (Cheek / Touch Position)						
			UMTS Duty Cycle	Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		Ambient Temp (°C)
Band V	4133/826.6	23.1	0.23	0.16	-0.01	0.24	0.16	21.4	21.4
	4175/835	23.1	0.27	0.18	0.00	0.27	0.18		
	4232/846.4	23.1	0.28	0.19	0.01	0.29	0.20		
Band II	9263/1852.6	22.9	0.78	0.46	-0.03	0.80	0.47	22.2	22.0
	9400/1880	22.8	0.79	0.46	-0.02	0.81	0.47		
	9537/1907.4	22.8	0.80	0.46	-0.04	0.81	0.47		
f(MHz)	Channel/ frequency	Conducted Output Power (dBm)	FCC ID PY7A3252041 with Standard Battery BST-38						
			UMTS Right Head Position (15° Tilt Position)						
			UMTS Duty Cycle	Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		Ambient Temp (°C)
Band V	4133/826.6	23.1						21.4	21.4
	4175/835	23.1	0.17	0.13	-0.04	0.18	0.13		
	4232/846.4	23.1							
Band II	9263/1852.6	22.9						22.2	22.0
	9400/1880	22.8	0.39	0.24	0.02	0.40	0.24		
	9537/1907.4	22.8							

Table 6: UMTS SAR measurement results for the portable cellular telephone FCC ID PY7A3252041 model W760i at maximum output power with Standard Battery BST-38. Measured CLOSED against the RIGHT head in UMTS mode.



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 001 W760i 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	14 April 2008	A

f(MHz)	Channel/ frequency	Conducted Output Power (dBm)	FCC ID PY7A3252041 with Standard Battery BST-38						
			UMTS Left Head Position (Cheek / Touch Position)						
			UMTS Duty Cycle	Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		Ambient Temp (°C)
Band V	4133/826.6	23.1	0.27	0.20	-0.01	0.27	0.20	21.5	21.3
	4175/835	23.1	0.36	0.26	0.02	0.37	0.27		
	4232/846.4	23.1	0.34	0.25	0.02	0.34	0.25		
Band II	9263/1852.6	22.9						22.1	22
	9400/1880	22.8	0.603	0.357	-0.06	0.62	0.37		
	9537/1907.4	22.8							
f(MHz)	Channel/ frequency	Conducted Output Power (dBm)	FCC ID PY7A3252041 with Standard Battery BST-38						
			UMTS Left Head Position (15° Tilt Position)						
			UMTS Duty Cycle	Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		Ambient Temp (°C)
Band V	4133/826.6	23.1						21.5	21.3
	4175/835	23.1	0.233	0.173	0.02	0.24	0.18		
	4232/846.4	23.1							
Band II	9263/1852.6	22.9						22.1	22
	9400/1880	22.8	0.267	0.157	-0.01	0.27	0.16		
	9537/1907.4	22.8							

Table 7: UMTS SAR measurement results for the portable cellular telephone FCC ID PY7A3252041 model W760i at maximum output power with Standard Battery BST-38. Measured OPEN against the LEFT head in UMTS mode.



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 001 W760i 02	
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f(MHz)	Channel/ frequency	Conducted Output Power (dBm)	FCC ID PY7A3252041 with Standard Battery BST-38						
			UMTS Right Head Position (Cheek / Touch Position)						
			UMTS Duty Cycle	Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		Ambient Temp (°C)
Band V	4133/826.6	23.1	0.26	0.20	-0.04	0.27	0.20	21.4	21.4
	4175/835	23.1	0.31	0.23	-0.02	0.32	0.24		
	4232/846.4	23.1	0.31	0.23	0.01	0.32	0.24		
Band II	9263/1852.6	22.9						22.2	22.0
	9400/1880	22.8	0.51	0.32	-0.06	0.52	0.32		
	9537/1907.4	22.8							

f(MHz)	Channel/ frequency	Conducted Output Power (dBm)	FCC ID PY7A3252041 with Standard Battery BST-38						
			UMTS Right Head Position (15° Tilt Position)						
			UMTS Duty Cycle	Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		Ambient Temp (°C)
Band V	4133/826.6	23.1						21.4	21.4
	4175/835	23.1	0.20	0.15	0.02	0.21	0.16		
	4232/846.4	23.1							
Band II	9263/1852.6	22.9						22.2	22.0
	9400/1880	22.8	0.29	0.17	0.00	0.30	0.18		
	9537/1907.4	22.8							

Table 8: UMTS SAR measurement results for the portable cellular telephone FCC ID PY7A3252041 model W760i at maximum output power with Standard Battery BST-38. Measured OPEN against the RIGHT head in UMTS mode.



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 001 W760i 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	14 April 2008	A

6.2 Body-Worn Test Results

The SAR results shown in Tables 9 through 12 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.



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 001 W760i 02		
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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	32.0	0.45	0.32	-0.03	0.47	0.33	21.3	21.8
		189 / 837	32.1	0.48	0.34	0.00	0.50	0.35		
		251 / 849	32.1	0.58	0.40	0.01	0.60	0.42		
1900 GSM	2:8 Duty Cycle	512 / 1850	29.9	0.64	0.38	-0.09	0.64	0.38	21.9	22
		660/1880	30.0	0.53	0.31	0.02	0.53	0.31		
		810/1910	29.8	0.46	0.27	-0.01	0.46	0.27		
Front of phone facing body										
800 GSM	2:8 Duty Cycle	128 / 824	32.0						21.3	21.8
		189 / 837	32.1	0.22	0.16	0.04	0.23	0.17		
		251 / 849	32.1							
1900 GSM	2:8 Duty Cycle	512 / 1850	29.9						22.4	22
		660/1880	30.0	0.21	0.13	-0.01	0.21	0.13		
		810/1910	29.8							

Table 9: SAR measurement results for the portable cellular telephone FCC ID PY7A3252041 model W760i at maximum output power with Standard Battery BST-38. Measured with GSM/GPRS Mode.



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 001 W760i 02		
Approved SEM/CV/PF/P Gerard Hayes	Checked	14 April 2008	A	

f(MHz)	Operating Condition	Channel/frequency	Conducted Output Power (dBm)	FCC ID PY7A3252041 with Standard Battery BST-38						
				Body Worn			Carry Accessory: ICE30 Back of phone facing body			
				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	32.0	0.49	0.34	-0.03	0.51	0.36	20.7	21.4
		189 / 837	32.1	0.53	0.37	-0.01	0.55	0.39		
		251 / 849	32.1	0.62	0.44	-0.05	0.65	0.46		
1900 GSM	2:8 Duty Cycle	512 / 1850	29.9	0.53	0.32	-0.08	0.53	0.32	22.1	22
		660/1880	30.0	0.44	0.26	0.01	0.44	0.26		
		810/1910	29.8	0.40	0.24	0.00	0.40	0.24		
Front of phone facing body										
800 GSM	2:8 Duty Cycle	128 / 824	32.0						20.7	21.4
		189 / 837	32.1	0.28	0.21	-0.02	0.30	0.21		
		251 / 849	32.1							
1900 GSM	2:8 Duty Cycle	512 / 1850	29.9						22.5	22
		660/1880	30.0	0.19	0.12	0.03	0.19	0.12		
		810/1910	29.8							

Table 10: SAR measurement results for the portable cellular telephone FCC ID PY7A3252041 model W760i at maximum output power with Standard Battery BST-38. Measured with GSM/GPRS Mode.



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 001 W760i 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	14 April 2008	A

f(MHz)	Channel/ frequency	Conducted Output Power (dBm)	FCC ID PY7A3252041 with Standard Battery BST-38						
			UMTS Body Worn			Carry Accessory: 15mm SPACER Back of phone facing body			
			Measured (W/kg) 1g / 10g	Drift (dB)	Extrapolated (W/kg) 1g / 10g	Ambient Temp (°C)	Simulate Temp (°C)		
Back of phone facing body									
Band V	4133/826.6	23.1	0.31	0.22	0.03	0.32	0.23	22.1	22.0
	4175/835	23.1	0.34	0.24	-0.02	0.35	0.25		
	4232/846.4	23.1	0.36	0.26	0.00	0.37	0.26		
Band II	9263/1852.6	22.9	0.53	0.32	-0.17	0.54	0.32	21.6	21.7
	9400/1880	22.8	0.59	0.35	0.07	0.61	0.36		
	9537/1907.4	22.8	0.51	0.30	-0.07	0.52	0.31		
Front of phone facing body									
Band V	4133/826.6	23.1						22.1	22.0
	4175/835	23.1	0.16	0.12	-0.05	0.16	0.12		
	4232/846.4	23.1							
Band II	9263/1852.6	22.9						21.6	21.7
	9400/1880	22.8	0.24	0.15	-0.01	0.24	0.15		
	9537/1907.4	22.8							

Table 11: UMTS SAR measurement results for the portable cellular telephone FCC ID PY7A3252041 model W760i at maximum output power with Standard Battery BST-38. Measured against the body with UMTS/HSDPA Modes.



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 001 W760i 02	
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f(MHz)	Channel/ frequency	Conducted Output Power (dBm)	FCC ID PY7A3252041 with Standard Battery BST-38					Ambient Temp (°C)	Simulate Temp (°C)
			UMTS Body Worn		Carry Accessory: ICE30 Back of phone facing body				
			Measured (W/kg) 1g / 10g	Drift (dB)	Extrapolated (W/kg) 1g / 10g				
Back of phone facing body									
Band V	4133/826.6	23.1	0.35	0.25	0.03	0.36	0.25	22.1	22.0
	4175/835	23.1	0.36	0.26	-0.03	0.37	0.26		
	4232/846.4	23.1	0.38	0.27	-0.05	0.39	0.27		
Band II	9263/1852.6	22.9	0.50	0.30	-0.01	0.51	0.31	21.5	21.6
	9400/1880	22.8	0.57	0.34	0.01	0.58	0.34		
	9537/1907.4	22.8	0.49	0.29	-0.06	0.50	0.30		
Front of phone facing body									
Band V	4133/826.6	23.1						22.1	22.0
	4175/835	23.1	0.17	0.13	-0.05	0.18	0.13		
	4232/846.4	23.1							
Band II	9263/1852.6	22.9						21.5	21.6
	9400/1880	22.8	0.20	0.13	-0.04	0.21	0.13		
	9537/1907.4	22.8							

Table 12: UMTS SAR measurement results for the portable cellular telephone FCC ID PY7A3252041 model W760i at maximum output power with Standard Battery BST-38. Measured with UMTS/HSDPA Modes.



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 001 W760i 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	14 April 2008	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.



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 001 W760i 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	14 April 2008	A

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 001 W760i 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	14 April 2008	A

835 MHz SAR Distribution of Validation Dipole Antenna System Performance Check (Using head tissue).

Validation_835Head_429_1251_12Mar08_T01

File Name: [Validation_835Head_429_1251_12Mar08_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: $f = 835 \text{ MHz}$; $\sigma = 0.909 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$

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) = 0.962 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 = 33.8 V/m; Power Drift = -0.030 dB

Peak SAR (extrapolated) = 1.36 W/kg

SAR(1 g) = 0.901 mW/g; SAR(10 g) = 0.584 mW/g

Maximum value of SAR (measured) = 0.976 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 = 33.8 V/m; Power Drift = -0.030 dB

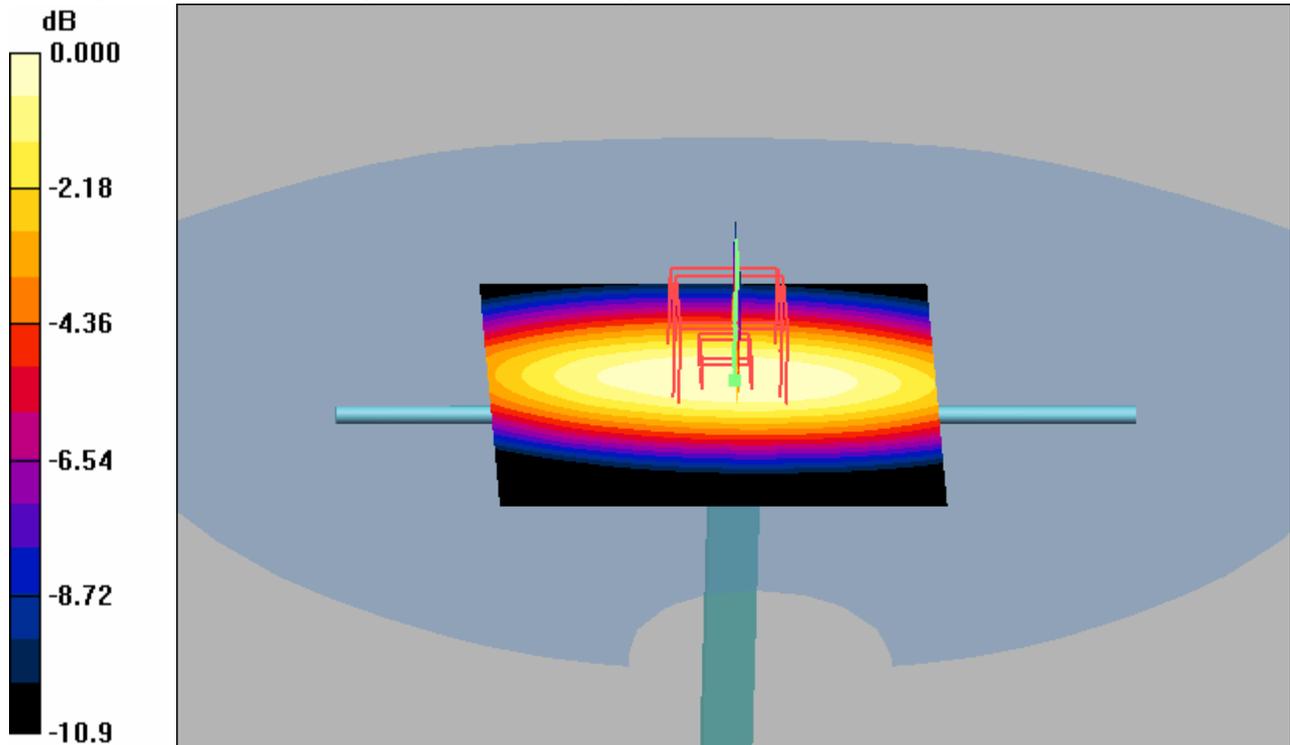
Peak SAR (extrapolated) = 1.29 W/kg

SAR(1 g) = 0.864 mW/g; SAR(10 g) = 0.564 mW/g

Maximum value of SAR (measured) = 0.927 mW/g

Procedure Notes: Pin: before 101.4 mW / after 100.7 mW

Humidity - 31.8 % Ambient Temp - 22.1 C Simulant Temp - 22 C



0 dB = 0.927mW/g



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 001 W760i 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	14 April 2008	A

835 MHz SAR Distribution of Validation Dipole Antenna

System Performance Check (Using head tissue).

Validation_835Head_429_1023_31Mar08_T01

File Name: [Validation_835Head_429_1023_31Mar08_T01.da4](#)

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

Probe: ET3DV6 - SN1538 ConvF(6.36, 6.36, 6.36) Duty Cycle: 1:1 Frequency: 835 MHz

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.895 \text{ mho/m}$; $\epsilon_r = 40.3$; $\rho = 1000 \text{ kg/m}^3$

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) = 1.04 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 = 34.9 V/m; Power Drift = -0.017 dB

Peak SAR (extrapolated) = 1.43 W/kg

SAR(1 g) = 0.965 mW/g; SAR(10 g) = 0.630 mW/g

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

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

Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

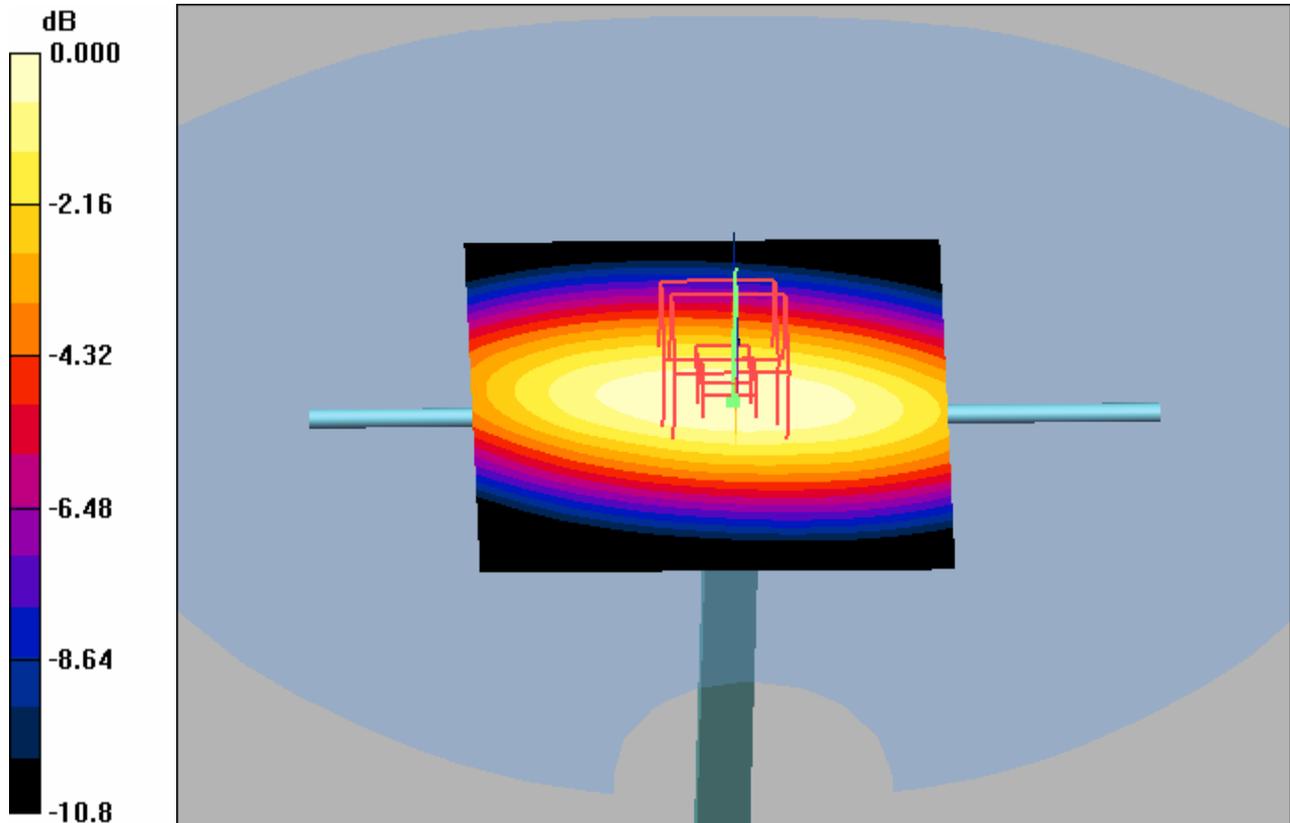
Reference Value = 34.9 V/m; Power Drift = -0.017 dB

Peak SAR (extrapolated) = 1.42 W/kg

SAR(1 g) = 0.956 mW/g; SAR(10 g) = 0.624 mW/g

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

Procedure Notes: Pin: before 100.8 mW / after 101.9 mW Humidity - 31.6 % Ambient Temp - 21.5 C Simulant Temp - 21.3 C



0 dB = 1.03mW/g



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 001 W760i 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	14 April 2008	A

835 MHz SAR Distribution of Validation Dipole Antenna

System Performance Check (Using head tissue).

Validation_835Head_429_1023_18Mar08_T01

File Name: [Validation_835Head_429_1023_18Mar08_T01.da4](#)

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

Probe: ET3DV6 - SN1538ConvF(6.36, 6.36, 6.36) Duty Cycle: 1:1 Frequency: 835 MHz

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.903 \text{ mho/m}$; $\epsilon_r = 41.2$; $\rho = 1000 \text{ kg/m}^3$

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) = 1.03 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 = 34.4 V/m; Power Drift = -0.019 dB

Peak SAR (extrapolated) = 1.42 W/kg

SAR(1 g) = 0.950 mW/g; SAR(10 g) = 0.618 mW/g

Maximum value of SAR (measured) = 1.03 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 = 34.4 V/m; Power Drift = -0.019 dB

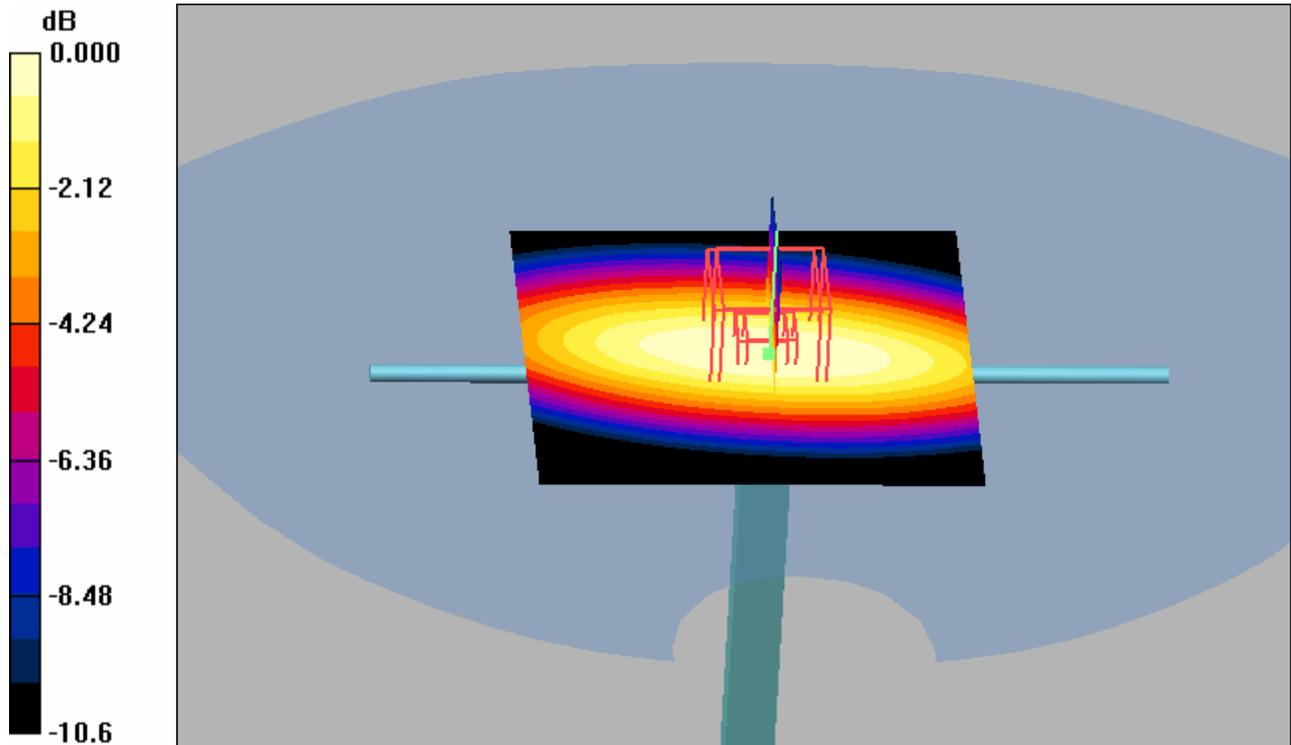
Peak SAR (extrapolated) = 1.37 W/kg

SAR(1 g) = 0.925 mW/g; SAR(10 g) = 0.606 mW/g

Maximum value of SAR (measured) = 0.996 mW/g

Procedure Notes: Pin: before 100.5 mW / after 100 mW

Humidity - 31.7 % Ambient Temp - 22.9 C Simulant Temp - 22.6 C



0 dB = 0.996mW/g



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 001 W760i 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	14 April 2008	A

Validation_835Head_429_1023_12Apr08_T01

File Name: [Validation_835Head_429_1023_12Apr08_T01.da4](#)

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

Probe: ET3DV6 - SN1538 ConvF(6.36, 6.36, 6.36) Duty Cycle: 1:1 Frequency: 835 MHz

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.916 \text{ mho/m}$; $\epsilon_r = 42.5$; $\rho = 1000 \text{ kg/m}^3$

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) = 1.03 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 = 34.8 V/m; Power Drift = -0.005 dB

Peak SAR (extrapolated) = 1.42 W/kg

SAR(1 g) = 0.958 mW/g; SAR(10 g) = 0.626 mW/g

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

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

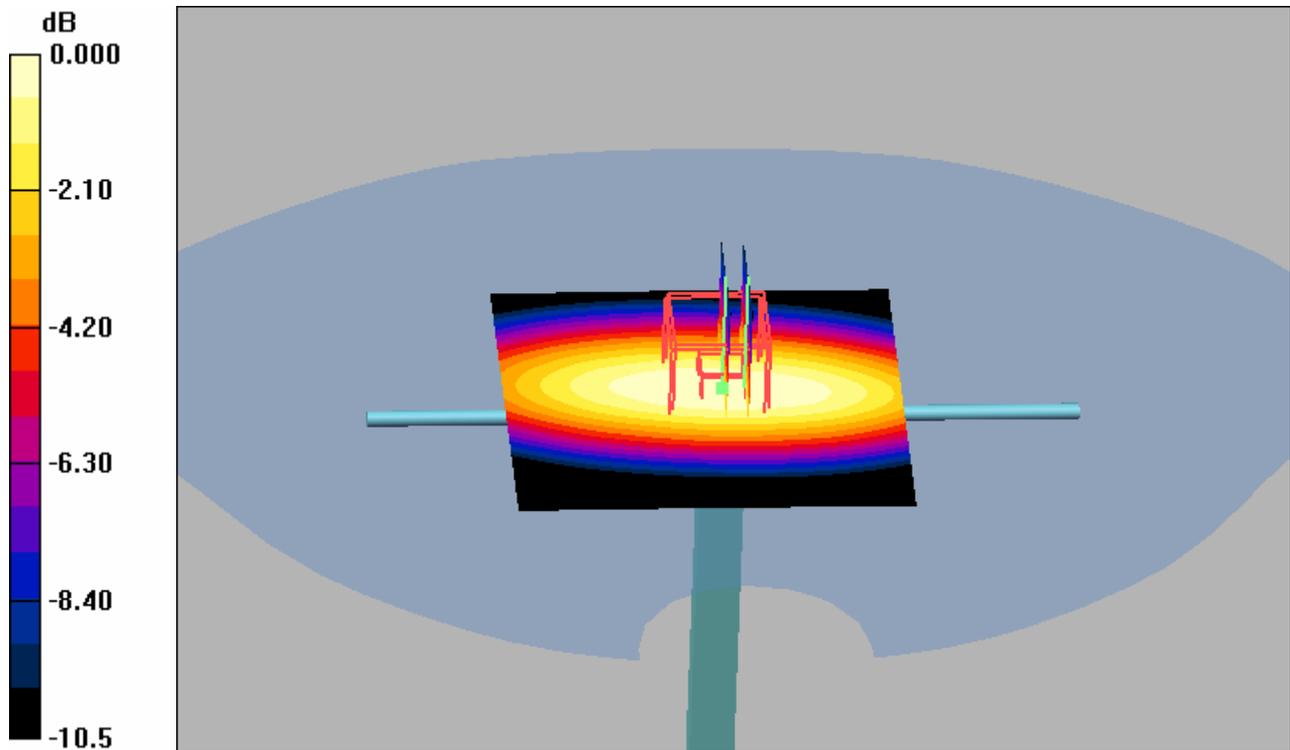
Reference Value = 34.8 V/m; Power Drift = -0.005 dB

Peak SAR (extrapolated) = 1.39 W/kg

SAR(1 g) = 0.941 mW/g; SAR(10 g) = 0.615 mW/g

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

Procedure Notes: Pin: before 99.5 mW / after 100 mW Humidity - 38.9 % Ambient Temp - 21.8 C Simulant Temp - 21.6 C



0 dB = 1.01mW/g



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 001 W760i 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	14 April 2008	A

835 MHz SAR Distribution of Validation Dipole Antenna

System Performance Check (Using body tissue).

Validation_835Body_429_1031_01Apr08_T01

File Name: [Validation_835Body_429_1031_01Apr08_T01.da4](#)

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

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

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 1.02 \text{ mho/m}$; $\epsilon_r = 52.8$; $\rho = 1000 \text{ kg/m}^3$

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) = 1.12 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 = 34.2 V/m; Power Drift = 0.004 dB

Peak SAR (extrapolated) = 1.52 W/kg

SAR(1 g) = 1.03 mW/g; SAR(10 g) = 0.677 mW/g

Maximum value of SAR (measured) = 1.12 mW/g

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

Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

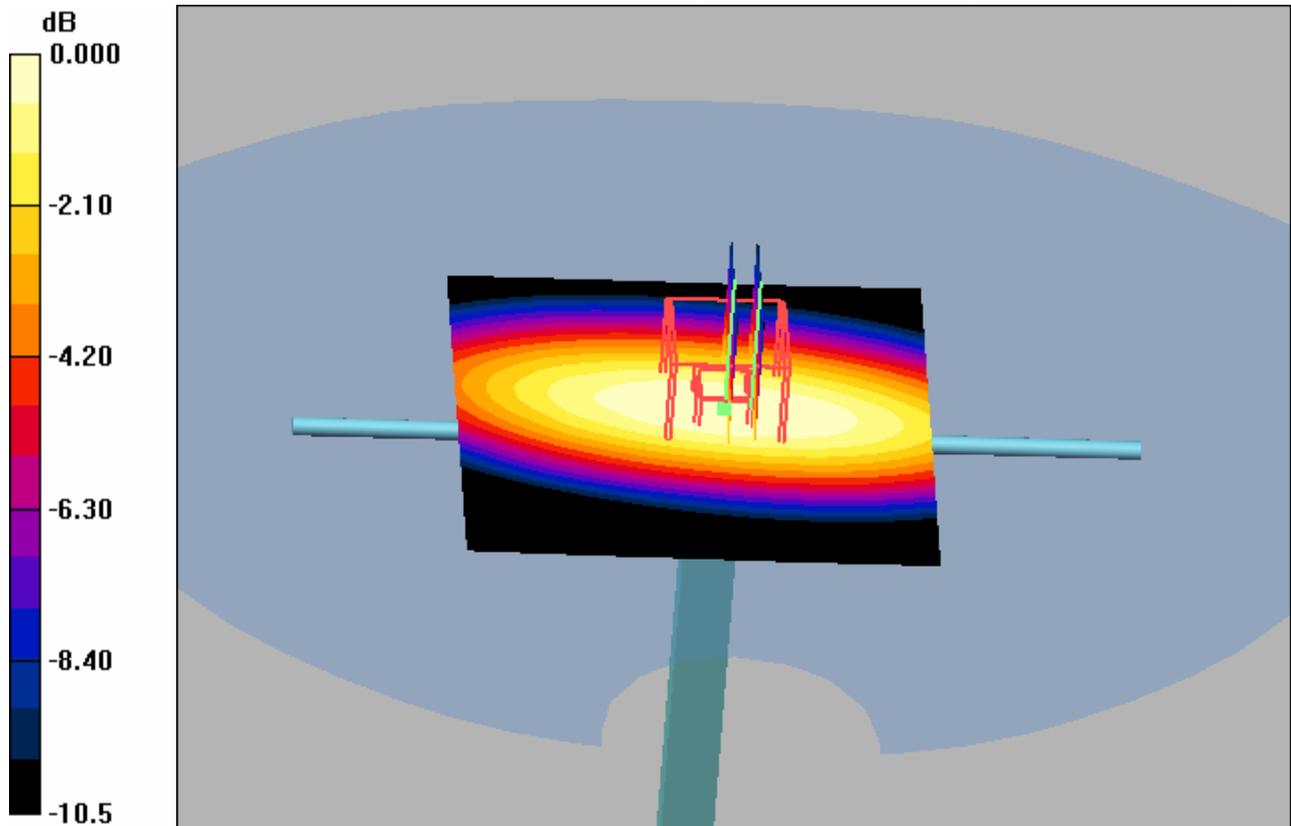
Reference Value = 34.2 V/m; Power Drift = 0.004 dB

Peak SAR (extrapolated) = 1.47 W/kg

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

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

Procedure Notes: Pin: before 101 mW / after 100.8 mW Humidity - 41.7 % Ambient Temp - 22.1 C Simulant Temp - 22 C



0 dB = 1.09mW/g



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 001 W760i 02	
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835 MHz SAR Distribution of Validation Dipole Antenna

System Performance Check (Using body tissue).

Validation_835Body_429_1031_14Mar08_T01

File Name: [Validation_835Body_429_1031_14Mar08_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: $f = 835 \text{ MHz}$; $\sigma = 1.02 \text{ mho/m}$; $\epsilon_r = 52.7$; $\rho = 1000 \text{ kg/m}^3$

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) = 1.08 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 = 33.7 V/m; Power Drift = 0.007 dB

Peak SAR (extrapolated) = 1.47 W/kg

SAR(1 g) = 1.01 mW/g; SAR(10 g) = 0.657 mW/g

Maximum value of SAR (measured) = 1.09 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 = 33.7 V/m; Power Drift = 0.007 dB

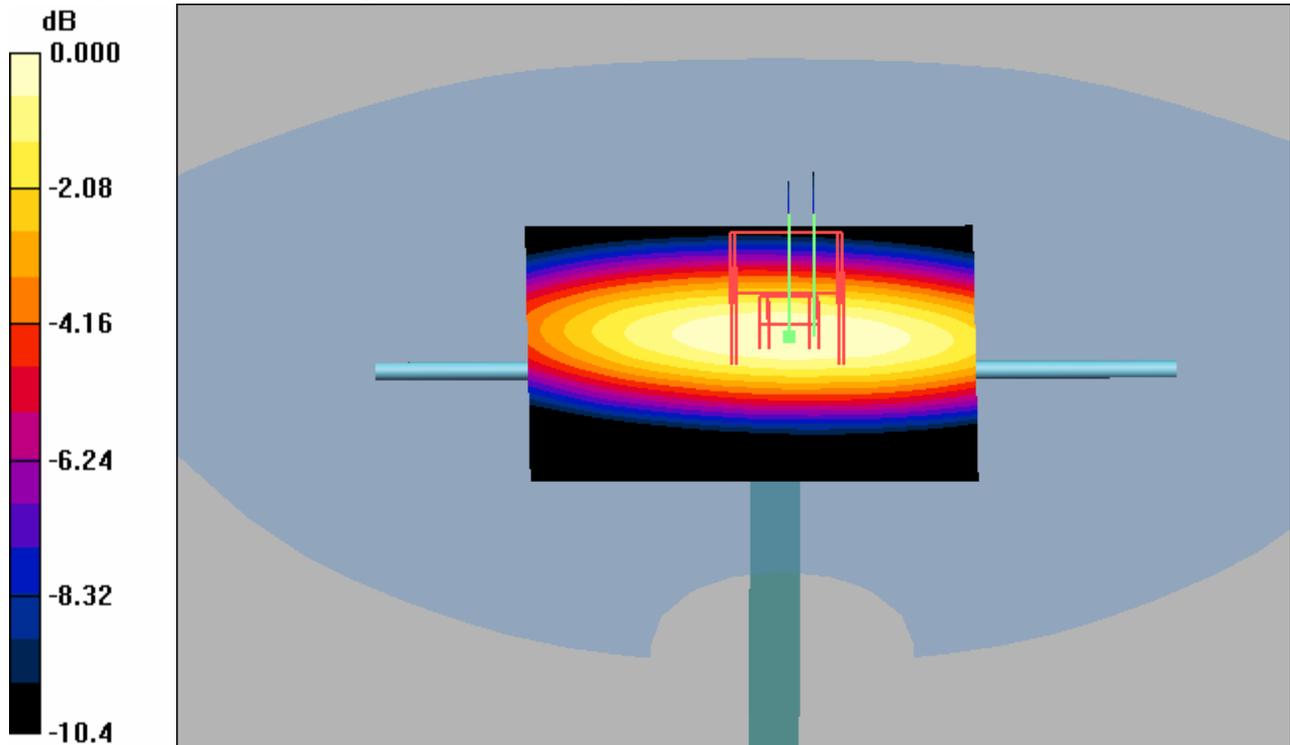
Peak SAR (extrapolated) = 1.43 W/kg

SAR(1 g) = 0.991 mW/g; SAR(10 g) = 0.652 mW/g

Maximum value of SAR (measured) = 1.07 mW/g

Procedure Notes: Pin: before 99.5 mW / after 99.5 mW

Humidity - 32.6 % Ambient Temp - 20.9 C Simulant Temp - 21 C



0 dB = 1.07mW/g



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 001 W760i 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	14 April 2008	A

1900 MHz SAR Distribution of Validation Dipole Antenna System Performance Check (Using head tissue).

Validation_1900Head_536_1335_12Mar08_T01

File Name: [Validation_1900Head_536_1335_12Mar08_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: $f = 1900 \text{ MHz}$; $\sigma = 1.47 \text{ mho/m}$; $\epsilon_r = 38.2$; $\rho = 1000 \text{ kg/m}^3$

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) = 5.24 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 = 59.7 V/m; Power Drift = -0.026 dB

Peak SAR (extrapolated) = 7.34 W/kg

SAR(1 g) = 4.2 mW/g; SAR(10 g) = 2.2 mW/g

Maximum value of SAR (measured) = 4.80 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 = 59.7 V/m; Power Drift = -0.026 dB

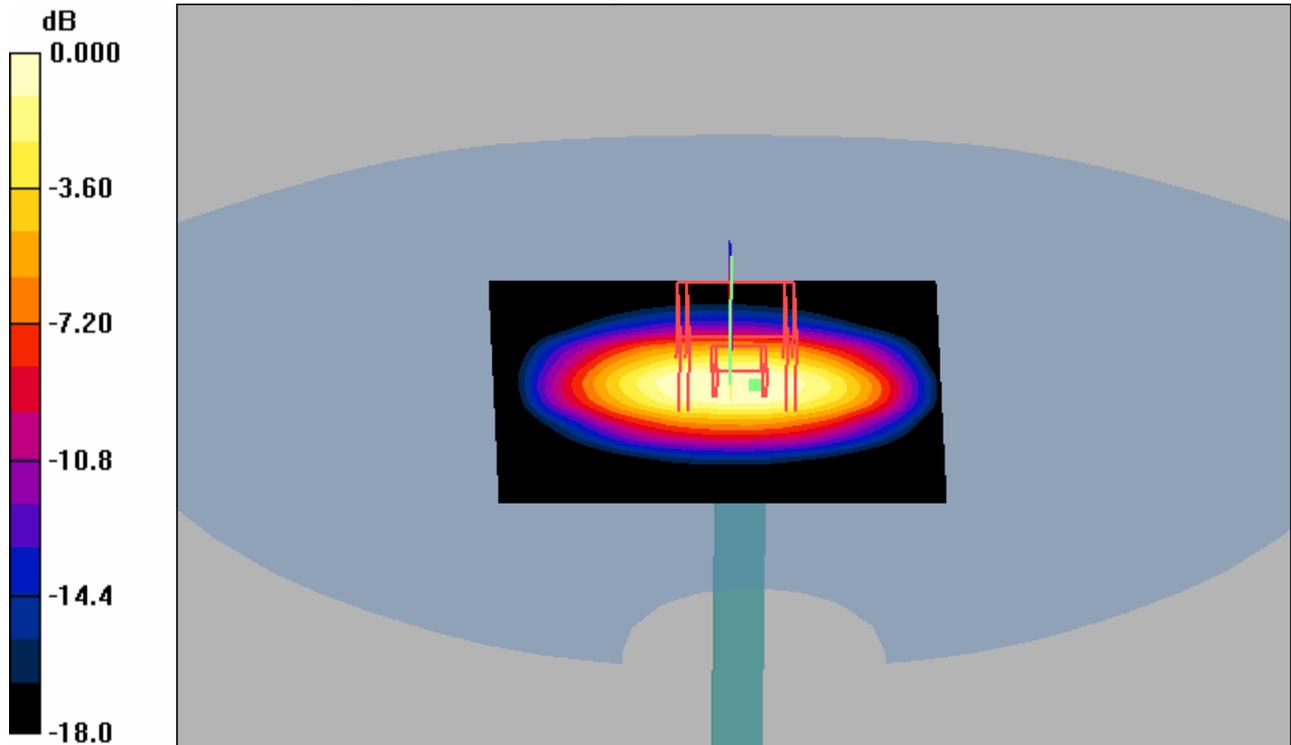
Peak SAR (extrapolated) = 7.16 W/kg

SAR(1 g) = 4.12 mW/g; SAR(10 g) = 2.16 mW/g

Maximum value of SAR (measured) = 4.67 mW/g

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

Humidity: 31.1 % Ambient Temp: 22.3 C Simulant Temp: 22 C



0 dB = 4.67mW/g



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 001 W760i 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	14 April 2008	A

1900 MHz SAR Distribution of Validation Dipole Antenna System Performance Check (Using head tissue).

Validation_1900Head_536_1054_31Mar08_T01

File Name: [Validation_1900Head_536_1054_31Mar08_T01.da4](#)

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

Probe: ET3DV6 - SN1586ConvF(5.17, 5.17, 5.17) Duty Cycle: 1:1 Frequency: 1900 MHz

Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.47 \text{ mho/m}$; $\epsilon_r = 38.3$; $\rho = 1000 \text{ kg/m}^3$

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) = 4.81 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 = 56.5 V/m; Power Drift = 0.006 dB

Peak SAR (extrapolated) = 6.84 W/kg

SAR(1 g) = 3.99 mW/g; SAR(10 g) = 2.09 mW/g

Maximum value of SAR (measured) = 4.51 mW/g

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

Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

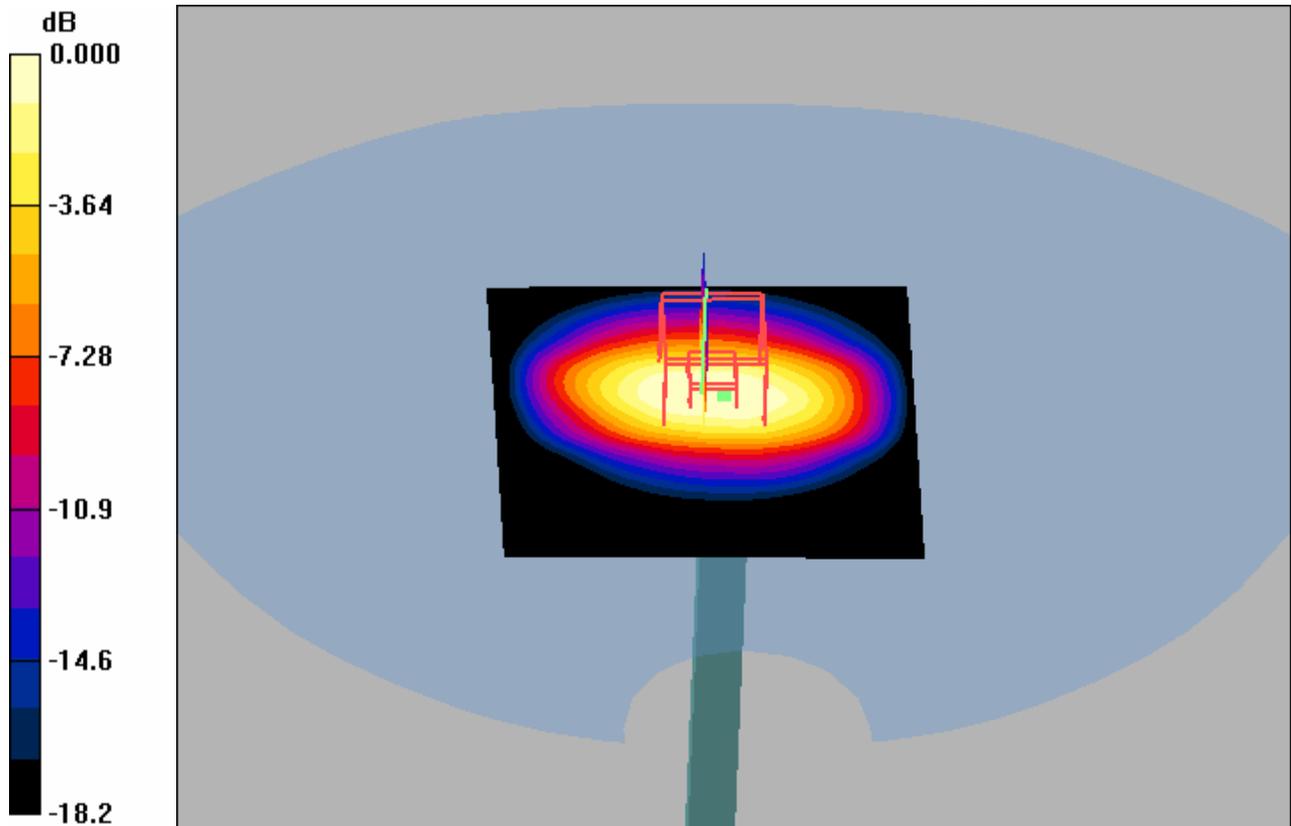
Reference Value = 56.5 V/m; Power Drift = 0.006 dB

Peak SAR (extrapolated) = 6.51 W/kg

SAR(1 g) = 3.81 mW/g; SAR(10 g) = 2 mW/g

Maximum value of SAR (measured) = 4.22 mW/g

Procedure Notes: Pin: before 100.3 mW / after 100.2 mW Humidity: 32.4 % Ambient Temp: 21.6 C Simulant Temp: 21.5 C



0 dB = 4.22mW/g



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 001 W760i 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	14 April 2008	A

1900 MHz SAR Distribution of Validation Dipole Antenna System Performance Check (Using head tissue).

Validation_1900Head_536_1054_01Apr08_T01

File Name: [Validation_1900Head_536_1054_01Apr08_T01.da4](#)

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

Probe: ET3DV6 - SN1586ConvF(5.17, 5.17, 5.17) Duty Cycle: 1:1 Frequency: 1900 MHz

Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.45 \text{ mho/m}$; $\epsilon_r = 38.2$; $\rho = 1000 \text{ kg/m}^3$

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) = 5.04 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 = 59.8 V/m; Power Drift = 0.018 dB

Peak SAR (extrapolated) = 6.84 W/kg

SAR(1 g) = 4 mW/g; SAR(10 g) = 2.11 mW/g

Maximum value of SAR (measured) = 4.53 mW/g

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

Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

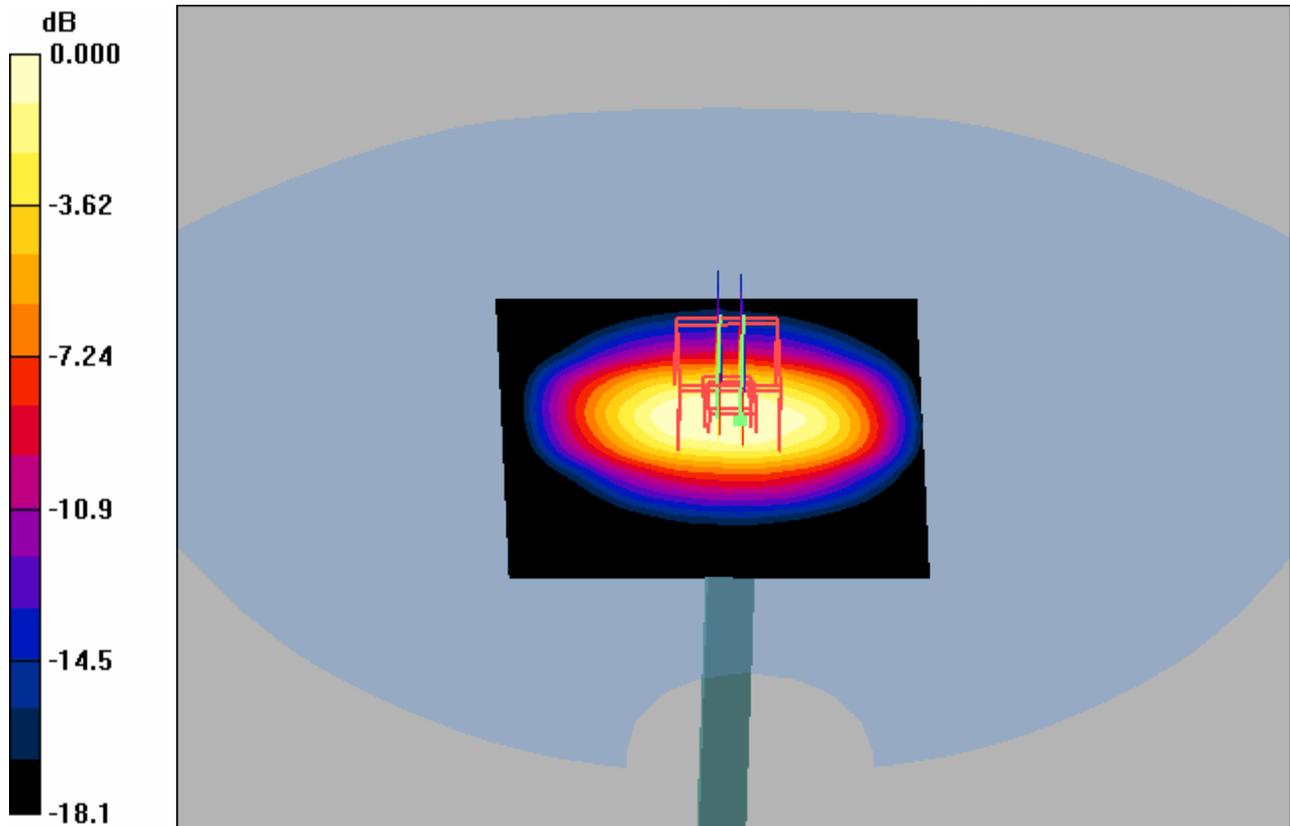
Reference Value = 59.8 V/m; Power Drift = 0.018 dB

Peak SAR (extrapolated) = 6.54 W/kg

SAR(1 g) = 3.85 mW/g; SAR(10 g) = 2.03 mW/g

Maximum value of SAR (measured) = 4.28 mW/g

Procedure Notes: Pin: before 100.7 mW / after 100.8 mW Humidity: 43.8 % Ambient Temp: 22.1 C Simulant Temp: 22 C



0 dB = 4.28mW/g



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 001 W760i 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	14 April 2008	A

1900 MHz SAR Distribution of Validation Dipole Antenna System Performance Check (Using head tissue).

Validation_1900Head_536_1054_02Apr08_T01

File Name: [Validation_1900Head_536_1054_02Apr08_T01.da4](#)

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

Probe: ET3DV6 - SN1586ConvF(5.17, 5.17, 5.17) Duty Cycle: 1:1 Frequency: 1900 MHz

Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.45 \text{ mho/m}$; $\epsilon_r = 38$; $\rho = 1000 \text{ kg/m}^3$

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) = 4.89 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 = 58.9 V/m; Power Drift = 0.011 dB

Peak SAR (extrapolated) = 6.66 W/kg

SAR(1 g) = 3.89 mW/g; SAR(10 g) = 2.05 mW/g

Maximum value of SAR (measured) = 4.43 mW/g

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

Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

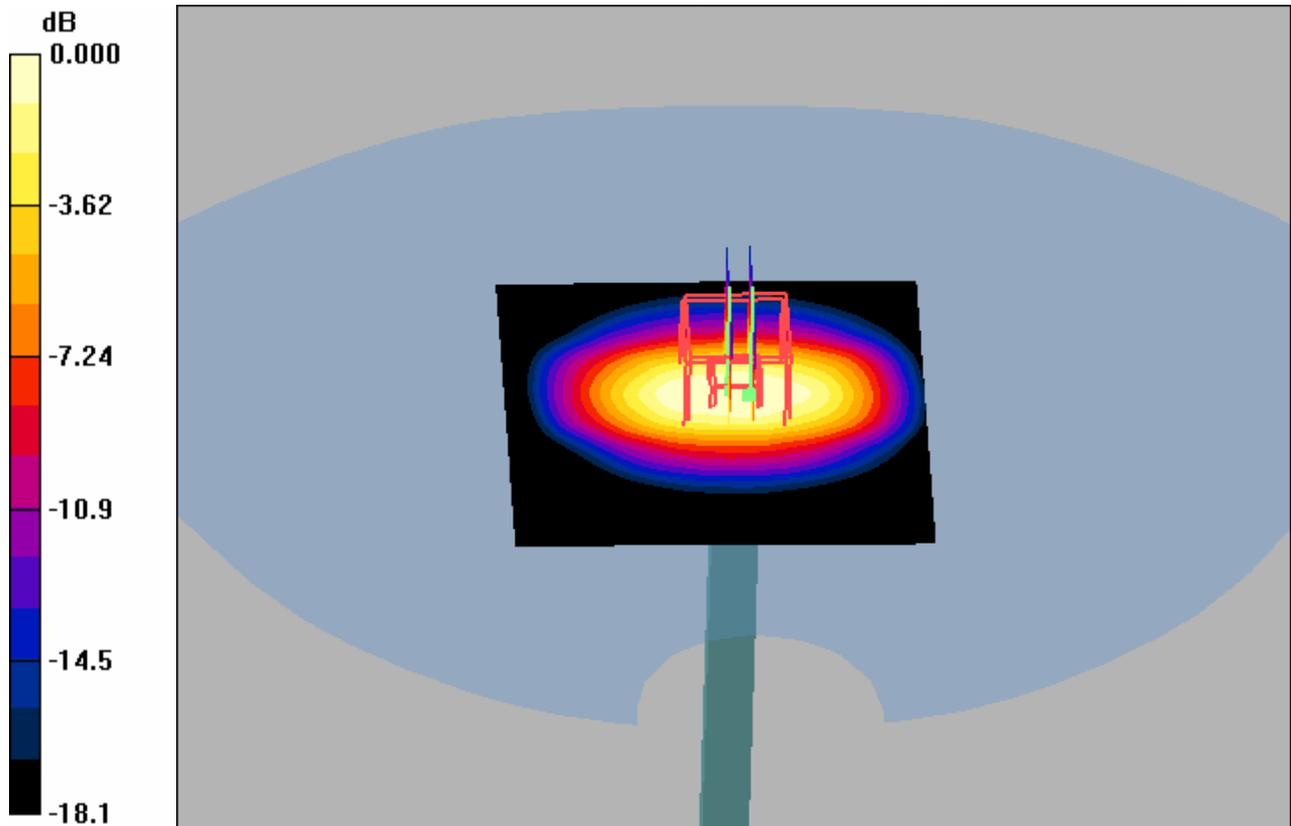
Reference Value = 58.9 V/m; Power Drift = 0.011 dB

Peak SAR (extrapolated) = 6.36 W/kg

SAR(1 g) = 3.76 mW/g; SAR(10 g) = 1.99 mW/g

Maximum value of SAR (measured) = 4.19 mW/g

Procedure Notes: Pin: before 99.6 mW / after 99.6 mW Humidity: 38 % Ambient Temp: 21.8 C Simulant Temp: 21.7 C



0 dB = 4.19mW/g



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 001 W760i 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	14 April 2008	A

1900 MHz SAR Distribution of Validation Dipole Antenna System Performance Check (Using body tissue).

Validation_1900Body_536_1335_15Mar08_T01

File Name: [Validation_1900Body_536_1335_15Mar08_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: $f = 1900 \text{ MHz}$; $\sigma = 1.46 \text{ mho/m}$; $\epsilon_r = 38.1$; $\rho = 1000 \text{ kg/m}^3$

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) = 5.08 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 = 58.4 V/m; Power Drift = -0.033 dB

Peak SAR (extrapolated) = 6.90 W/kg

SAR(1 g) = 3.95 mW/g; SAR(10 g) = 2.06 mW/g

Maximum value of SAR (measured) = 4.48 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 = 58.4 V/m; Power Drift = -0.033 dB

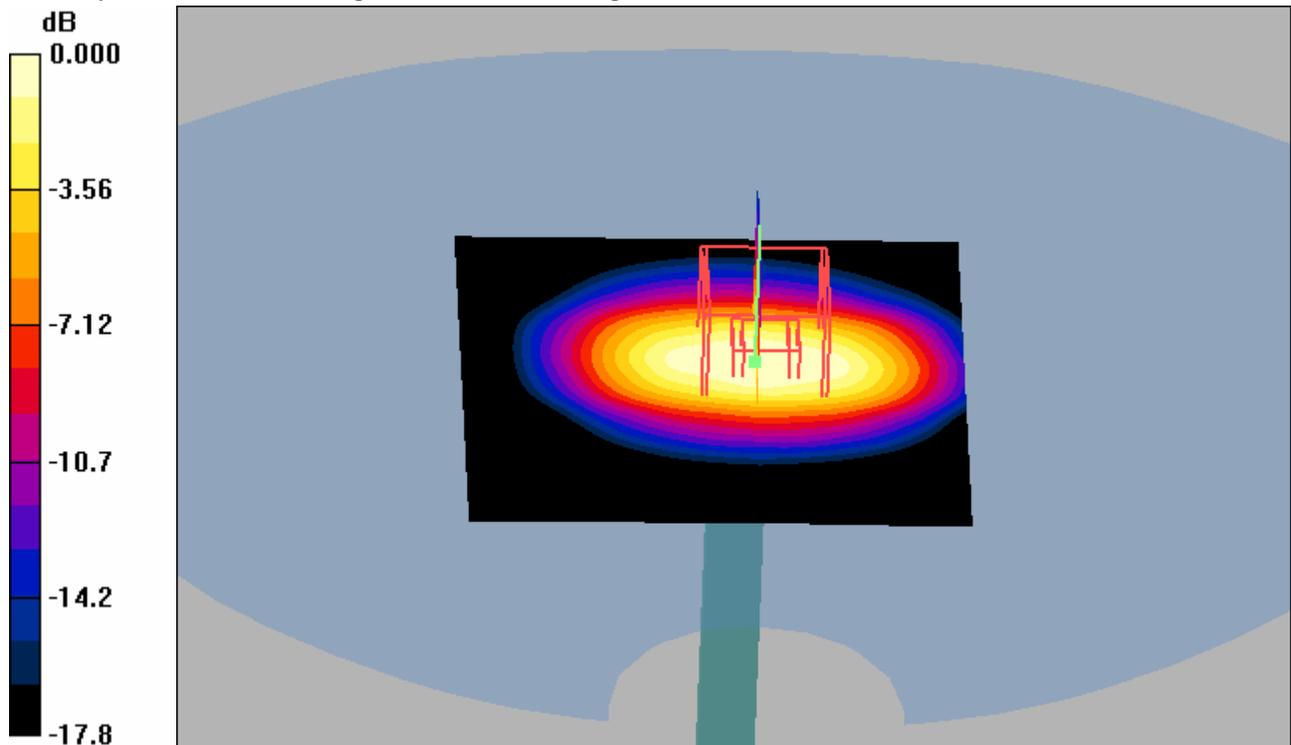
Peak SAR (extrapolated) = 6.70 W/kg

SAR(1 g) = 3.85 mW/g; SAR(10 g) = 2.02 mW/g

Maximum value of SAR (measured) = 4.33 mW/g

Procedure Notes: Pin: before 100.3 mW / after 100 mW

Humidity: 32.8 % Ambient Temp: 21.8 C Simulant Temp: 21.7 C



0 dB = 4.33mW/g



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 001 W760i 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	14 April 2008	A

1900 MHz SAR Distribution of Validation Dipole Antenna System Performance Check (Using head tissue).

Validation_1900Head_536_1054_18Mar08_T01

File Name: [Validation_1900Head_536_1054_18Mar08_T01.da4](#)

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

Probe: ET3DV6 - SN1586ConvF(5.17, 5.17, 5.17) Duty Cycle: 1:1 Frequency: 1900 MHz

Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.46 \text{ mho/m}$; $\epsilon_r = 38.3$; $\rho = 1000 \text{ kg/m}^3$

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) = 5.07 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 = 59.4 V/m; Power Drift = -0.009 dB

Peak SAR (extrapolated) = 6.84 W/kg

SAR(1 g) = 3.97 mW/g; SAR(10 g) = 2.08 mW/g

Maximum value of SAR (measured) = 4.54 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 = 59.4 V/m; Power Drift = -0.009 dB

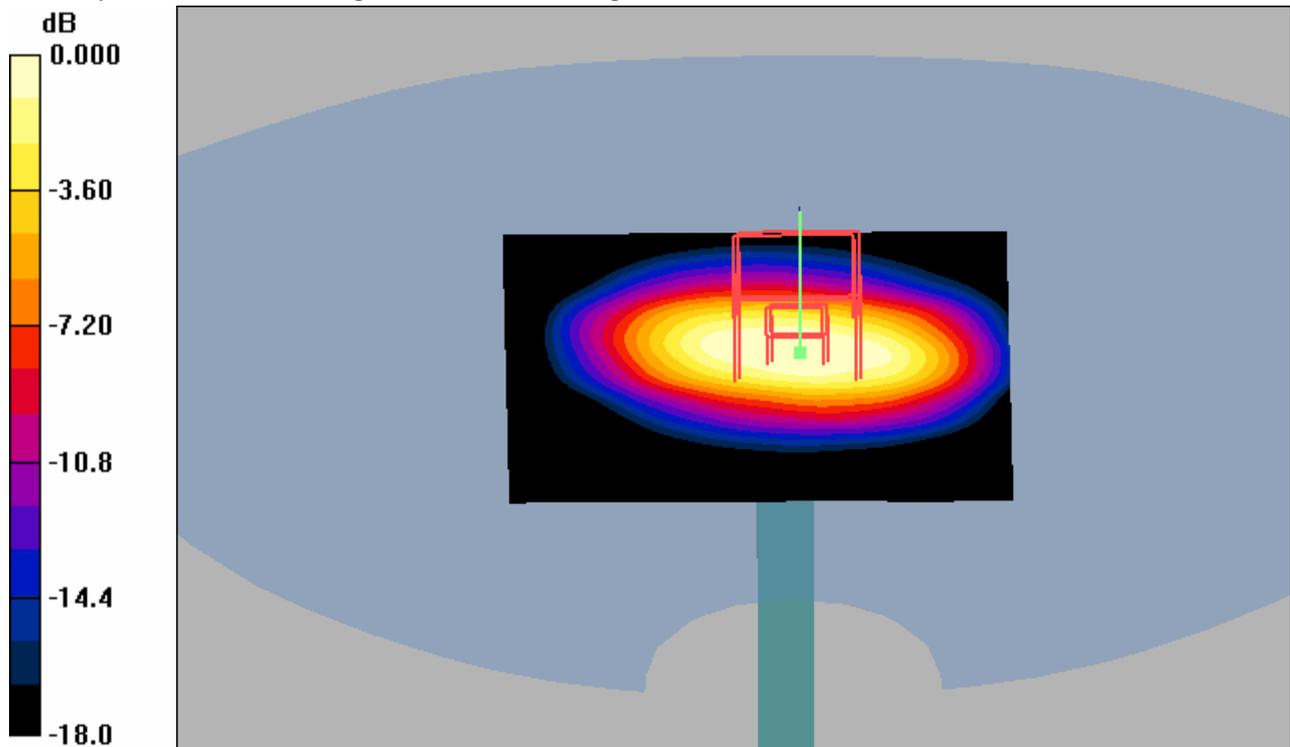
Peak SAR (extrapolated) = 6.50 W/kg

SAR(1 g) = 3.8 mW/g; SAR(10 g) = 2 mW/g

Maximum value of SAR (measured) = 4.20 mW/g

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

Humidity: 34.1 % Ambient Temp: 22.2 C Simulant Temp: 22 C



0 dB = 4.20mW/g



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 001 W760i 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	14 April 2008	A

1900 MHz SAR Distribution of Validation Dipole Antenna System Performance Check (Using body tissue).

Validation_1900Body_537_1020_12Mar08_T01

File Name: [Validation_1900Body_537_1020_12Mar08_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: $f = 1900 \text{ MHz}$; $\sigma = 1.55 \text{ mho/m}$; $\epsilon_r = 50.9$; $\rho = 1000 \text{ kg/m}^3$

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) = 4.88 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 = 51.1 V/m; Power Drift = 0.080 dB

Peak SAR (extrapolated) = 6.78 W/kg

SAR(1 g) = 4 mW/g; SAR(10 g) = 2.13 mW/g

Maximum value of SAR (measured) = 4.51 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 = 51.1 V/m; Power Drift = 0.080 dB

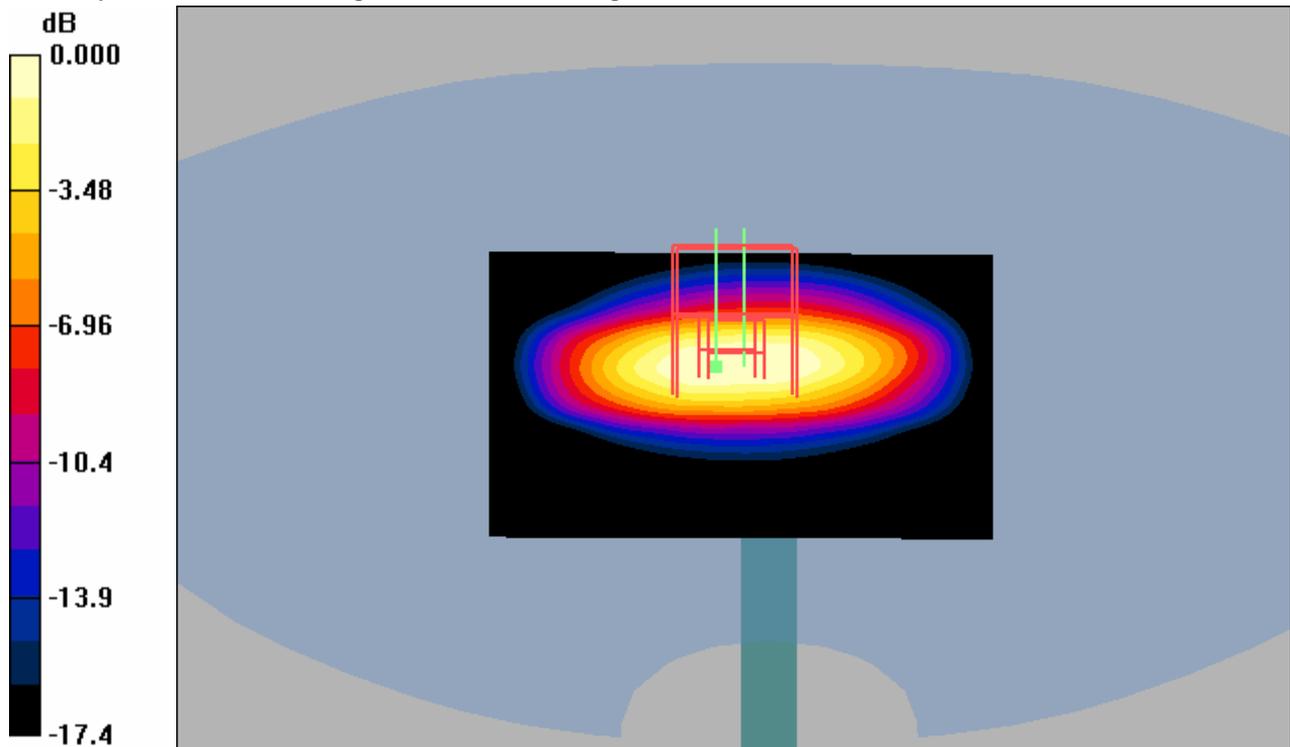
Peak SAR (extrapolated) = 6.69 W/kg

SAR(1 g) = 3.96 mW/g; SAR(10 g) = 2.12 mW/g

Maximum value of SAR (measured) = 4.41 mW/g

Procedure Notes: Pin: before 99.8 mW / after 100.2 mW

Humidity: 30.9 % Ambient Temp: 22.2 C Simulant Temp: 22 C



0 dB = 4.41mW/g



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 001 W760i 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	14 April 2008	A

1900 MHz SAR Distribution of Validation Dipole Antenna System Performance Check (Using body tissue).

Validation_1900Body_537_1020_15Mar08_T01

File Name: [Validation_1900Body_537_1020_15Mar08_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: $f = 1900 \text{ MHz}$; $\sigma = 1.55 \text{ mho/m}$; $\epsilon_r = 50.8$; $\rho = 1000 \text{ kg/m}^3$

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) = 4.66 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 = 45.8 V/m; Power Drift = -0.020 dB

Peak SAR (extrapolated) = 6.71 W/kg

SAR(1 g) = 3.9 mW/g; SAR(10 g) = 2.08 mW/g

Maximum value of SAR (measured) = 4.35 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 = 45.8 V/m; Power Drift = -0.020 dB

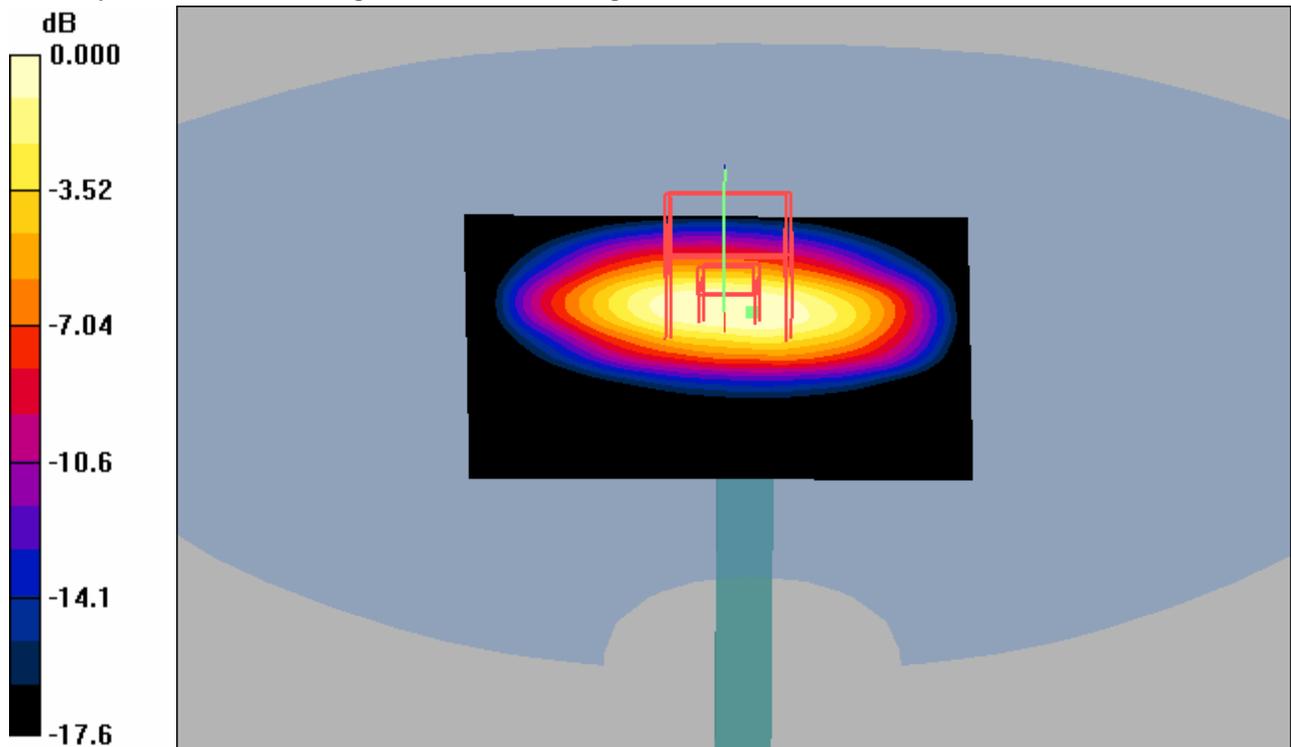
Peak SAR (extrapolated) = 6.62 W/kg

SAR(1 g) = 3.89 mW/g; SAR(10 g) = 2.08 mW/g

Maximum value of SAR (measured) = 4.39 mW/g

Procedure Notes: Pin: before 99.8 mW / after 99.7 mW

Humidity: 33.1 % Ambient Temp: 21.9 C Simulant Temp: 22 C



0 dB = 4.39mW/g



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1900 MHz SAR Distribution of Validation Dipole Antenna System Performance Check (Using body tissue).

Validation_1900Body_537_1020_03Apr08_T01

File Name: [Validation_1900Body_537_1020_03Apr08_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: $f = 1900 \text{ MHz}$; $\sigma = 1.56 \text{ mho/m}$; $\epsilon_r = 50.7$; $\rho = 1000 \text{ kg/m}^3$

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) = 5.26 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 = 56.8 V/m; Power Drift = 0.016 dB

Peak SAR (extrapolated) = 6.94 W/kg

SAR(1 g) = 4.04 mW/g; SAR(10 g) = 2.15 mW/g

Maximum value of SAR (measured) = 4.57 mW/g

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

Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

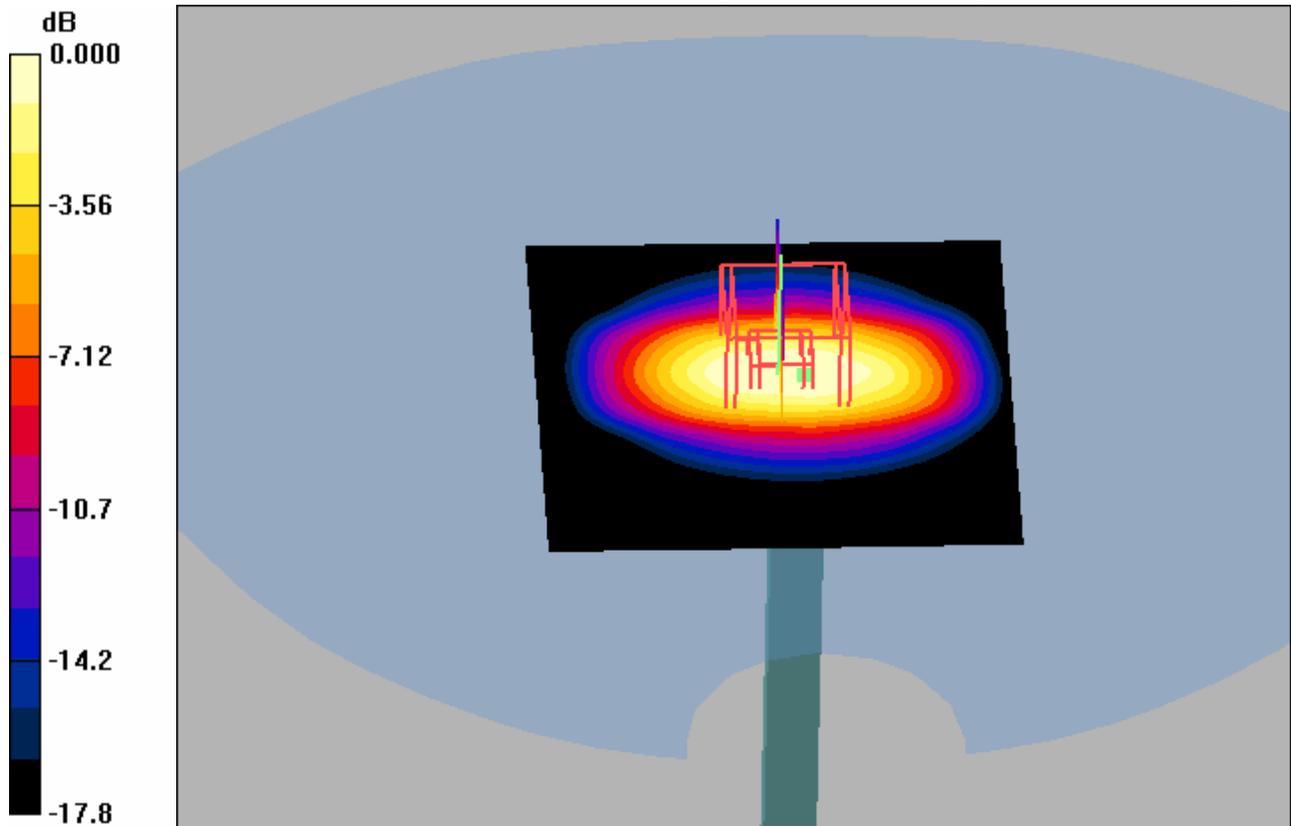
Reference Value = 56.8 V/m; Power Drift = 0.016 dB

Peak SAR (extrapolated) = 6.79 W/kg

SAR(1 g) = 3.99 mW/g; SAR(10 g) = 2.13 mW/g

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

Procedure Notes: Pin: before 100.6 mW / after 100.6 mW Humidity: 36.1 % Ambient Temp: 21.6 C Simulant Temp: 21.7 C



0 dB = 4.48mW/g



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Appendix 2

SAR distribution plots for Phantom Head Adjacent Use



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800 GSM Band: SAR Distribution and Extrapolation of Maximum SAR

Model: W760i with Standard Battery: BST-38, Right Cheek Position.

Date/Time: 3/12/2008 9:53:27 AM

File Name: [12Mar08_W760i_GSM850_2FAE_RC01.da4](#)

DUT: W760i 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; $\sigma = 0.924$ mho/m; $\epsilon_r = 41.4$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery BST-38

Humidity - 32.1 % Ambient Temp - 22.2 C Simulant Temp - 22 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

High Channel/Area Scan (51x81x1):

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

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

Maximum value of SAR (interpolated) = 0.252 mW/g

High Channel/Zoom Scan (7x7x7)/Cube 0:

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

Reference Value = 8.04 V/m; Power Drift = 0.021 dB

Peak SAR (extrapolated) = 0.354 W/kg

SAR(1 g) = 0.238 mW/g; SAR(10 g) = 0.158 mW/g

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

Maximum value of SAR (measured) = 0.255 mW/g

High Channel/Zoom Scan (31x31x36)/Cube 0:

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

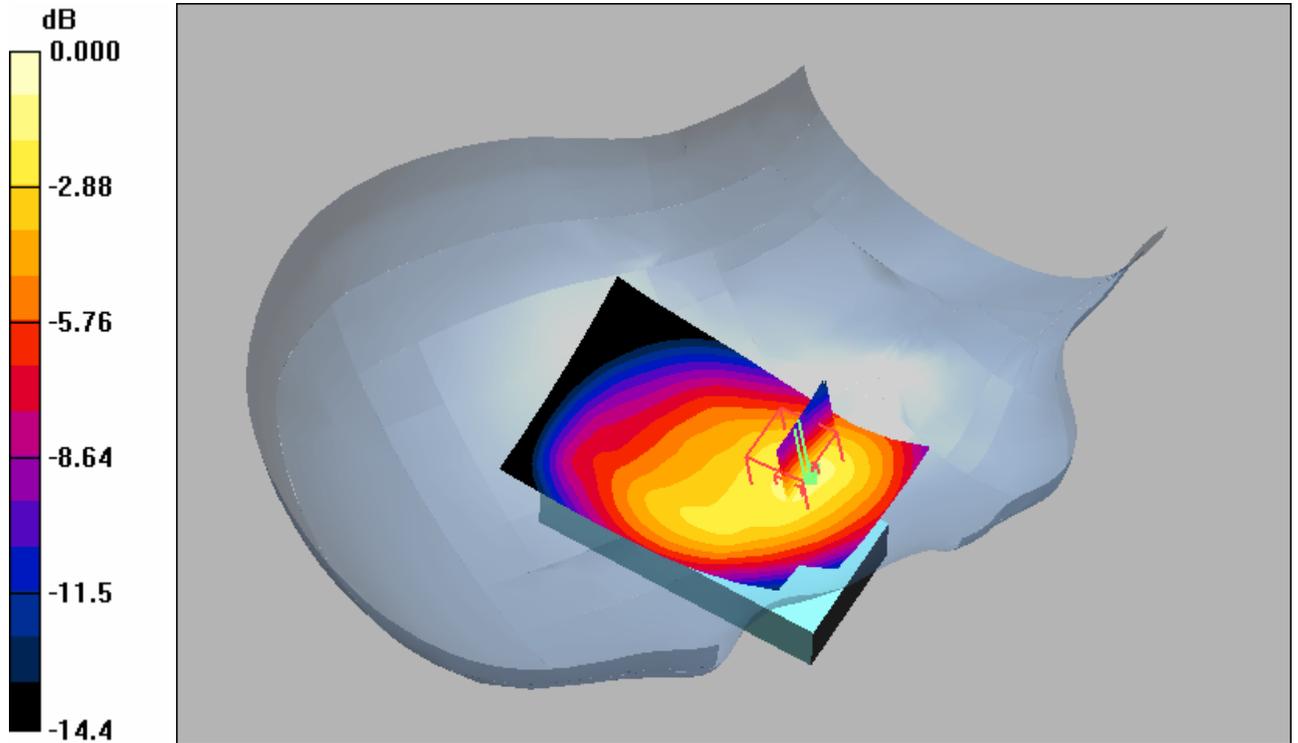
Reference Value = 8.04 V/m; Power Drift = 0.021 dB

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

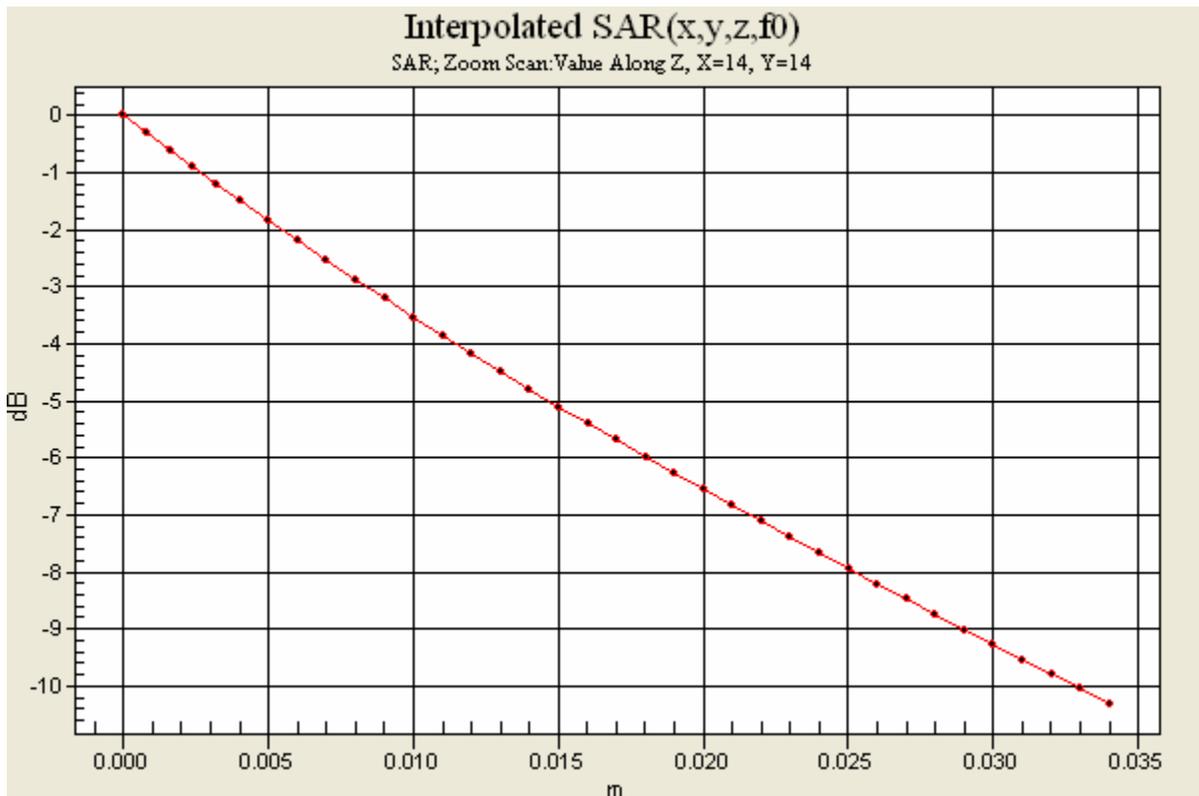
Maximum value of SAR (interpolated) = 0.354 mW/g



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0 dB = 0.354mW/g





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Approved SEM/CV/PF/P Gerard Hayes	Checked	14 April 2008	A

800 GSM Band: Distribution and Extrapolation of Maximum SAR

Model: W760i with Standard Battery: BST-38, Right Tilt Position.

Date/Time: 3/12/2008 10:17:14 AM

File Name: [12Mar08_W760i_GSM850_2FAE_RT01_da4](#)

DUT: W760i 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; $\sigma = 0.91$ mho/m; $\epsilon_r = 41.6$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery BST-38

Humidity - 32.1 % Ambient Temp - 22.2 C Simulant Temp - 22 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

Middle Channel/Area Scan (51x81x1):

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

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

Maximum value of SAR (interpolated) = 0.119 mW/g

Middle Channel/Zoom Scan (7x7x7)/Cube 0:

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

Reference Value = 9.15 V/m; Power Drift = -0.007 dB

Peak SAR (extrapolated) = 0.144 W/kg

SAR(1 g) = 0.114 mW/g; SAR(10 g) = 0.084 mW/g

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

Maximum value of SAR (measured) = 0.119 mW/g

Middle Channel/Zoom Scan (31x31x36)/Cube 0:

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

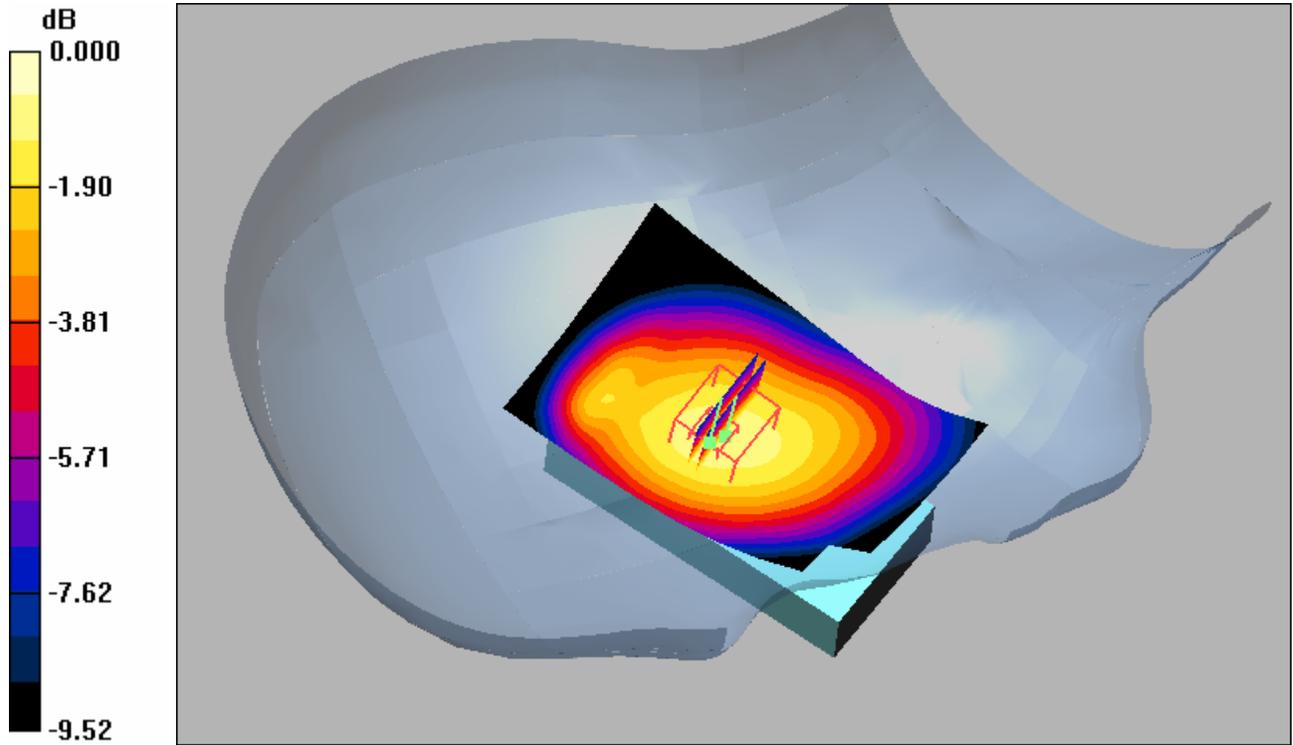
Reference Value = 9.15 V/m; Power Drift = -0.007 dB

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

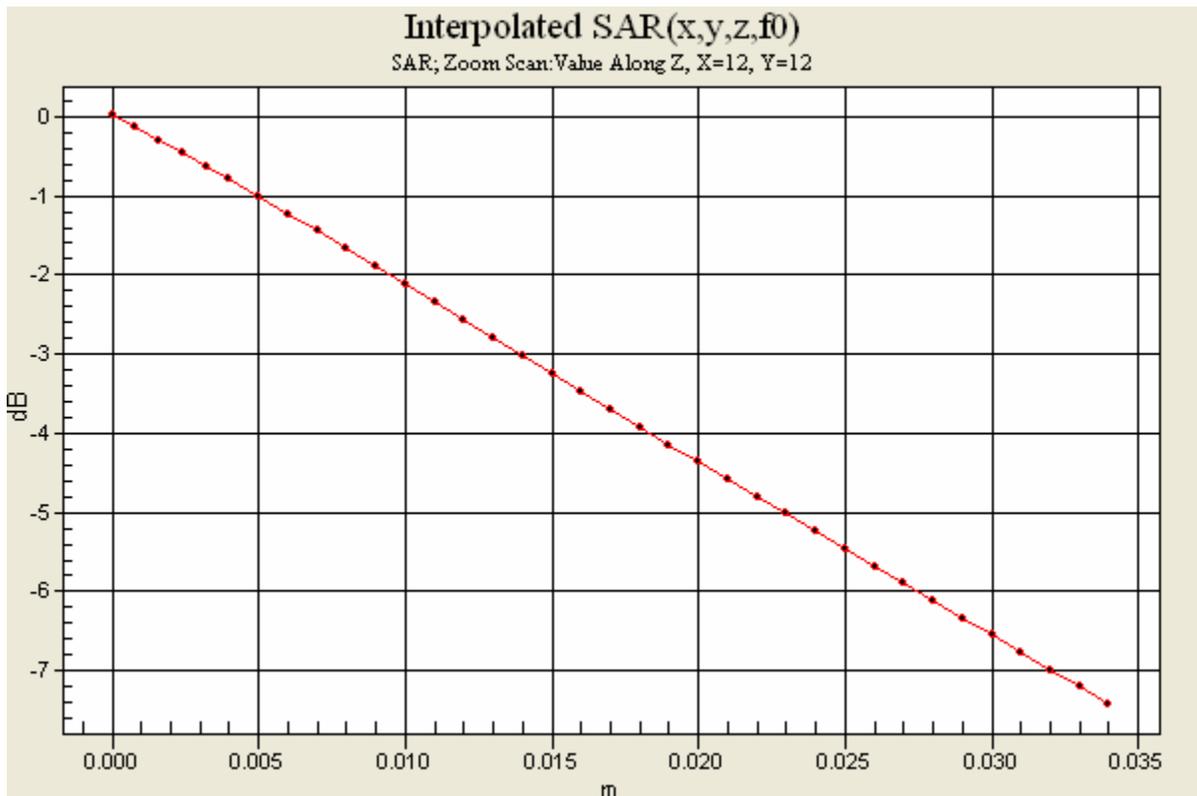
Maximum value of SAR (interpolated) = 0.144 mW/g



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0 dB = 0.144mW/g





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**1900 GSM Band: Distribution and Extrapolation of Maximum SAR
Model: W760i with Standard Battery: BST-38, Right Cheek Position.**

Date/Time: 3/12/2008 9:00:46 AM

File Name: [12Mar08_W760i_GSM1900_2ER6_RC01.da4](#)

DUT: W760i 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; $\sigma = 1.42$ mho/m; $\epsilon_r = 38.4$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery - BST38

Humidity - 32 % Ambient Temp - 22.2 C Simulant Tem - 22 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

Low Channel/Area Scan (51x81x1):

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

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

Maximum value of SAR (interpolated) = 0.781 mW/g

Low Channel/Zoom Scan (7x7x7)/Cube 0:

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

Reference Value = 10.9 V/m; Power Drift = 0.036 dB

Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.665 mW/g; SAR(10 g) = 0.389 mW/g

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

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

Low Channel/Zoom Scan (31x31x36)/Cube 0:

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

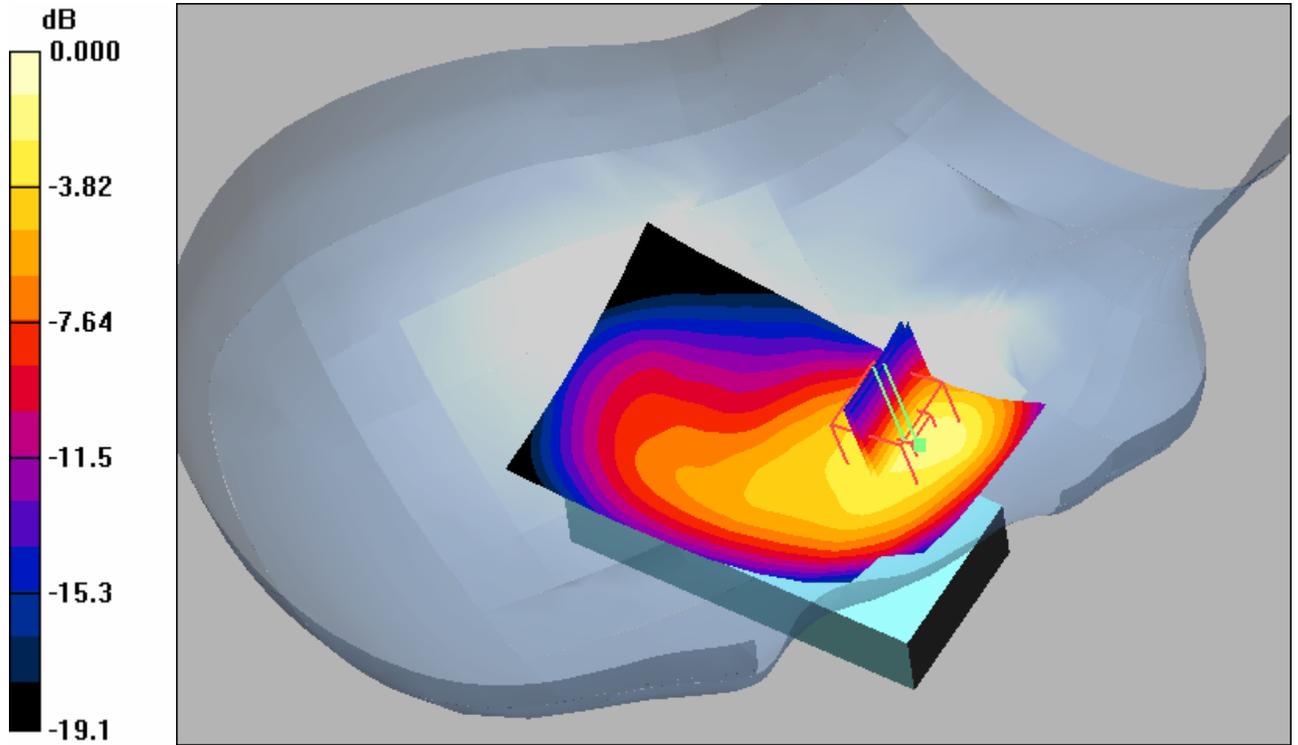
Reference Value = 10.9 V/m; Power Drift = 0.036 dB

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

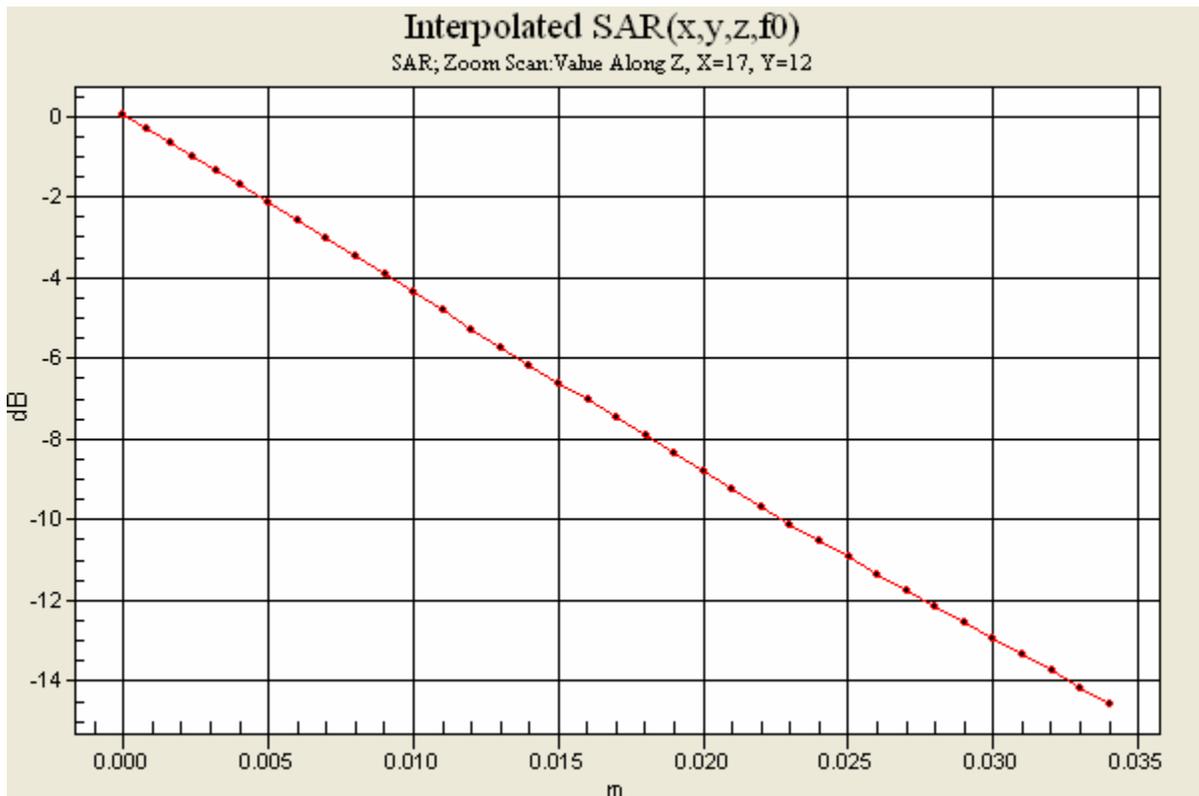
Maximum value of SAR (interpolated) = 1.09 mW/g



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0 dB = 1.09mW/g





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1900 GSM Band: Distribution and Extrapolation of Maximum SAR

Model: W760i with Standard Battery: BST-38, Left Tilt Position.

Date/Time: 3/12/2008 8:29:43 AM

File Name: [12Mar08_W760i_GSM1900_2ER6_LT01.da4](#)

DUT: W760i 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: $f = 1880$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 38.3$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery - BST-38

Humidity: 31.1% Ambient Temp: 22.3 C Simulant Temp: 22 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

Middle Channel/Area Scan (51x81x1):

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

Maximum value of SAR (interpolated) = 0.227 mW/g

Middle Channel/Zoom Scan (7x7x7)/Cube 0:

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

Reference Value = 13.1 V/m; Power Drift = -0.040 dB

Peak SAR (extrapolated) = 0.287 W/kg

SAR(1 g) = 0.197 mW/g; SAR(10 g) = 0.117 mW/g

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

Middle Channel/Zoom Scan (31x31x36)/Cube 0:

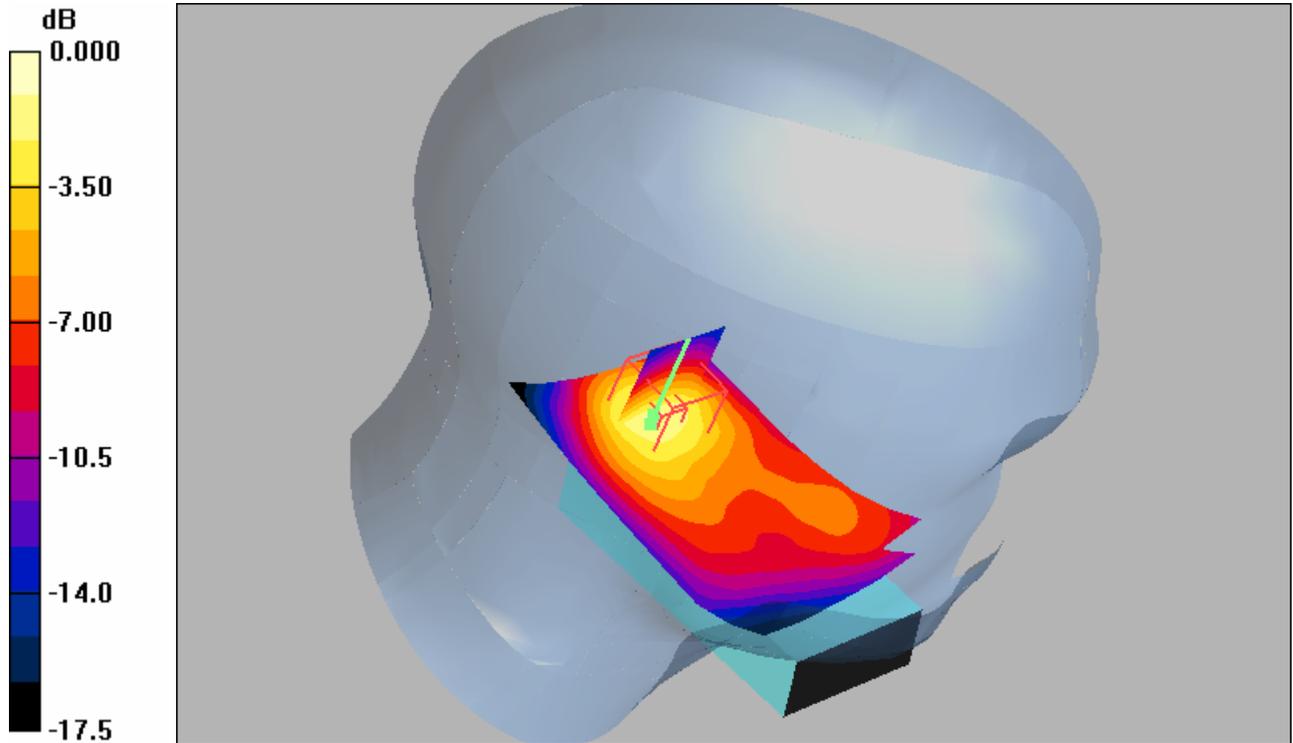
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.1 V/m; Power Drift = -0.040 dB

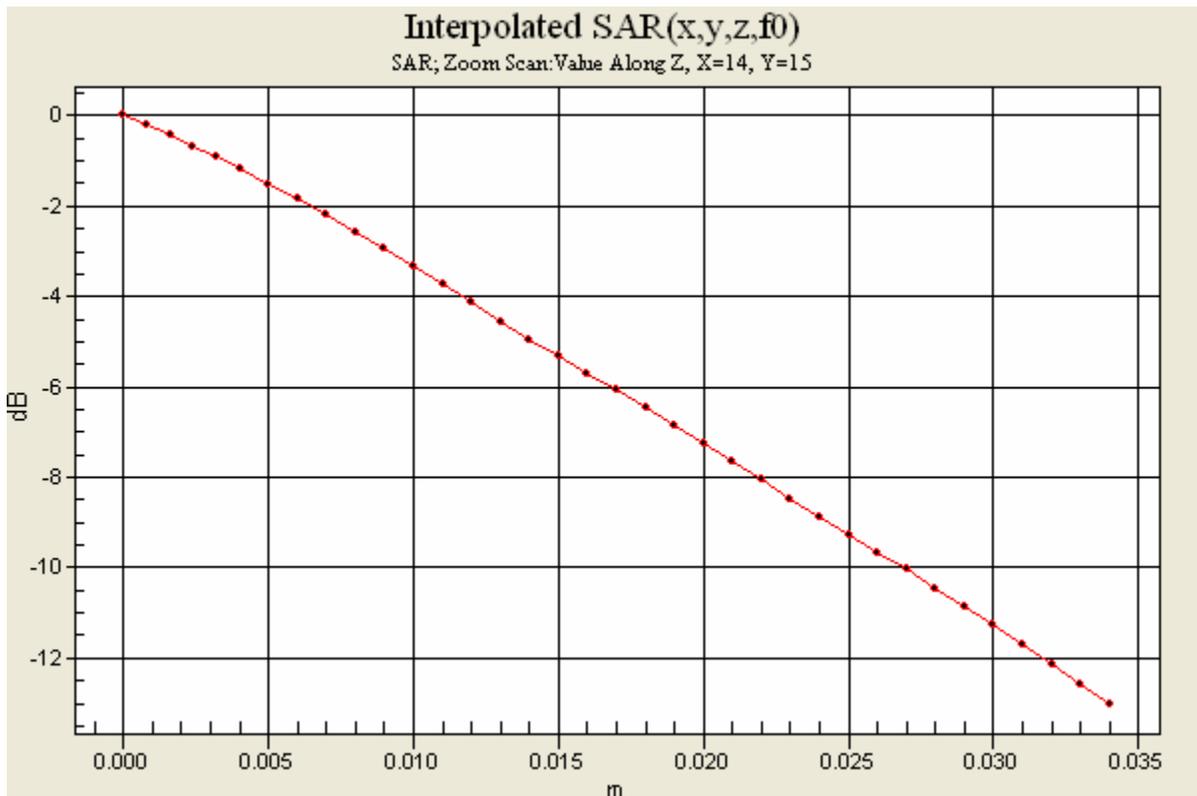
Maximum value of SAR (interpolated) = 0.287 mW/g



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0 dB = 0.287mW/g





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Band V UMTS: SAR Distribution and Extrapolation of Maximum SAR

Model: W760i with Standard Battery: BST-38, Right Cheek Position.

Date/Time: 3/31/2008 10:34:23 AM

File Name: [31Mar08_W760i_B5WCDMA_2FAE_RC01.da4](#)

DUT: W760i closed

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

Probe: ET3DV6 - SN1538ConvF(6.36, 6.36, 6.36)

Medium parameters used (interpolated): $f = 846.4$ MHz; $\sigma = 0.908$ mho/m; $\epsilon_r = 40.1$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery BST-38 Humidity: 31.1 % Ambient Temp: 21.4 C Simulant Temp: 21.4 C

DASY4 Configuration:

- Probe: ET3DV6 - SN1538; ConvF(6.36, 6.36, 6.36); Calibrated: 5/23/2007

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

- Electronics: DAE3 Sn431; 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

High Channel/Area Scan (51x81x1):

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

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

Maximum value of SAR (interpolated) = 0.309 mW/g

High Channel/Zoom Scan (7x7x7)/Cube 0:

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

Reference Value = 6.69 V/m; Power Drift = 0.012 dB

Peak SAR (extrapolated) = 0.410 W/kg

SAR(1 g) = 0.283 mW/g; SAR(10 g) = 0.191 mW/g

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

Maximum value of SAR (measured) = 0.308 mW/g

High Channel/Zoom Scan (31x31x36)/Cube 0:

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

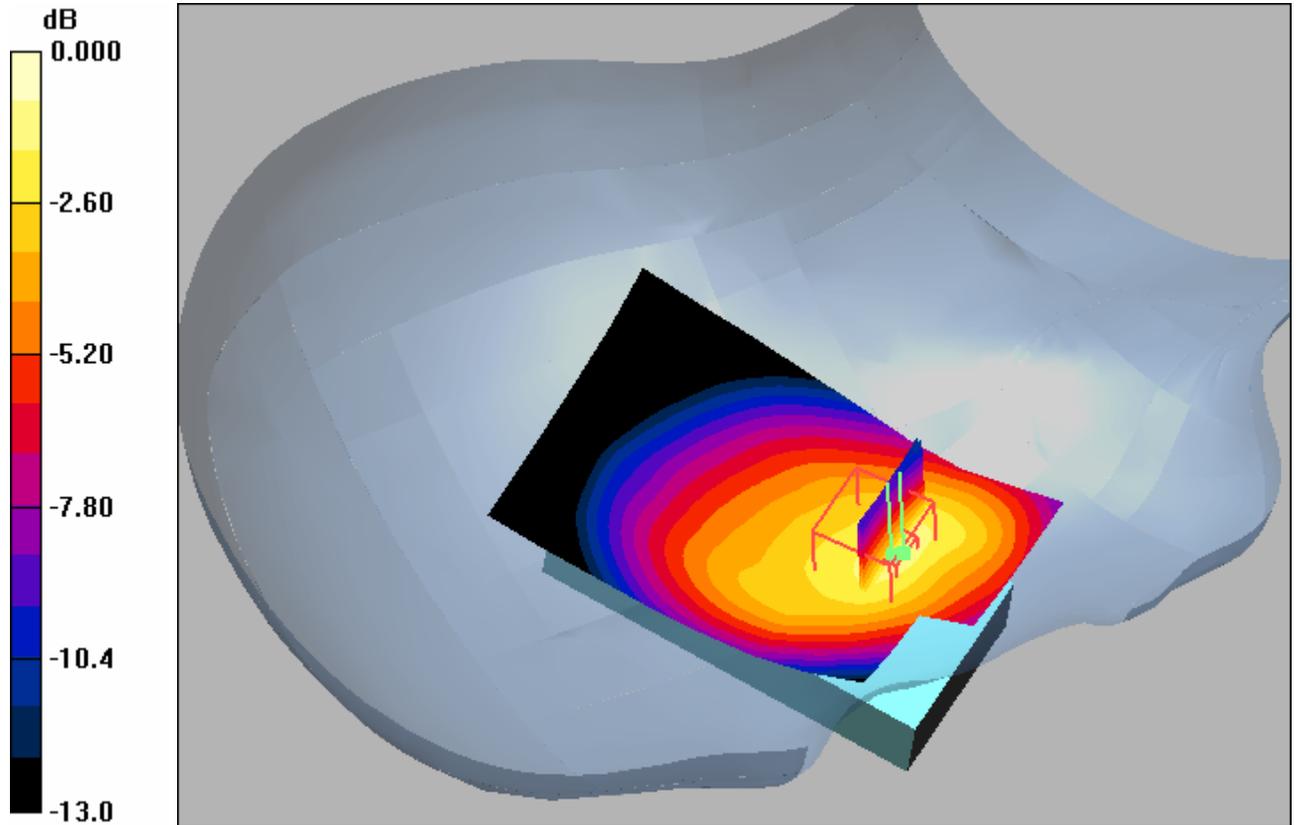
Reference Value = 6.69 V/m; Power Drift = 0.012 dB

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

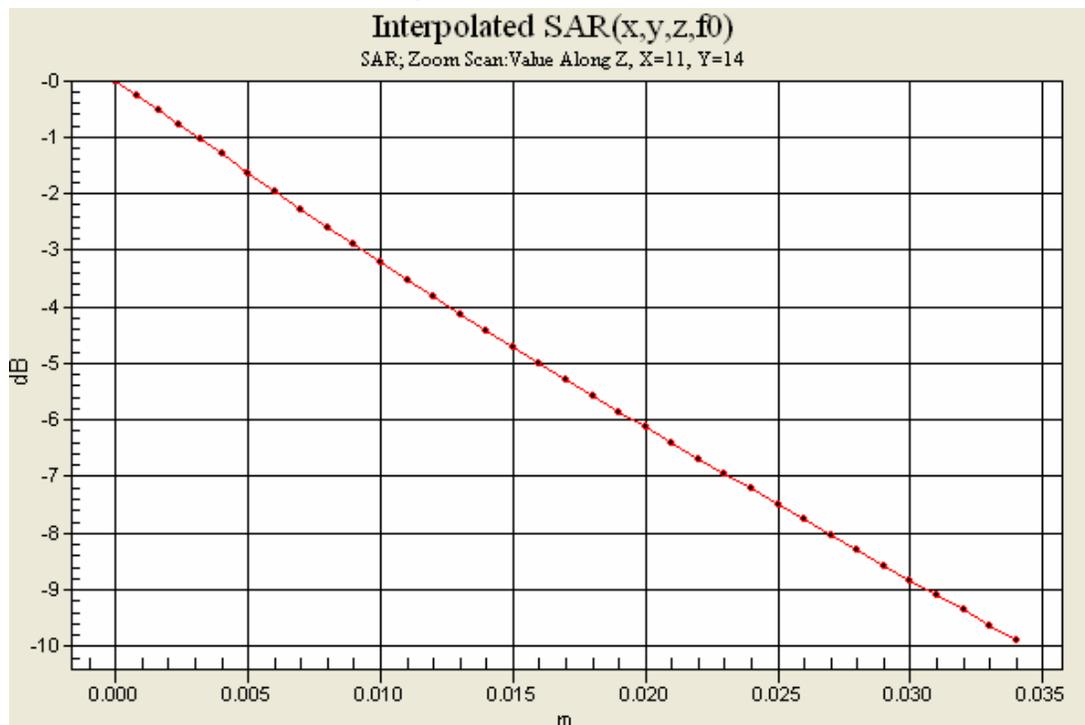
Maximum value of SAR (interpolated) = 0.410 mW/g



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0 dB = 0.410mW/g





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Approved SEM/CV/PF/P Gerard Hayes	Checked	14 April 2008	A

Band V UMTS: Distribution and Extrapolation of Maximum SAR

Model: W760i with Standard Battery: BST-38, Right Tilt Position.

Date/Time: 3/31/2008 10:57:59 AM

File Name: [31Mar08_W760i_B5WCDMA_2FAE_RT01.da4](#)

DUT: W760i closed

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

Probe: ET3DV6 - SN1538 ConvF(6.36, 6.36, 6.36)

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.895 \text{ mho/m}$; $\epsilon_r = 40.3$; $\rho = 1000 \text{ kg/m}^3$

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery BST-38 Humidity: 31.1 % Ambient Temp: 21.4 C Simulant Temp: 21.4 C

DASY4 Configuration:

- Probe: ET3DV6 - SN1538; ConvF(6.36, 6.36, 6.36); Calibrated: 5/23/2007

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

- Electronics: DAE3 Sn431; 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

Middle Channel/Area Scan (51x81x1):

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

Maximum value of SAR (interpolated) = 0.178 mW/g

Middle Channel/Zoom Scan (7x7x7)/Cube 0:

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

Reference Value = 10.9 V/m; Power Drift = -0.039 dB

Peak SAR (extrapolated) = 0.225 W/kg

SAR(1 g) = 0.174 mW/g; SAR(10 g) = 0.127 mW/g

Maximum value of SAR (measured) = 0.185 mW/g

Middle Channel/Zoom Scan (31x31x36)/Cube 0:

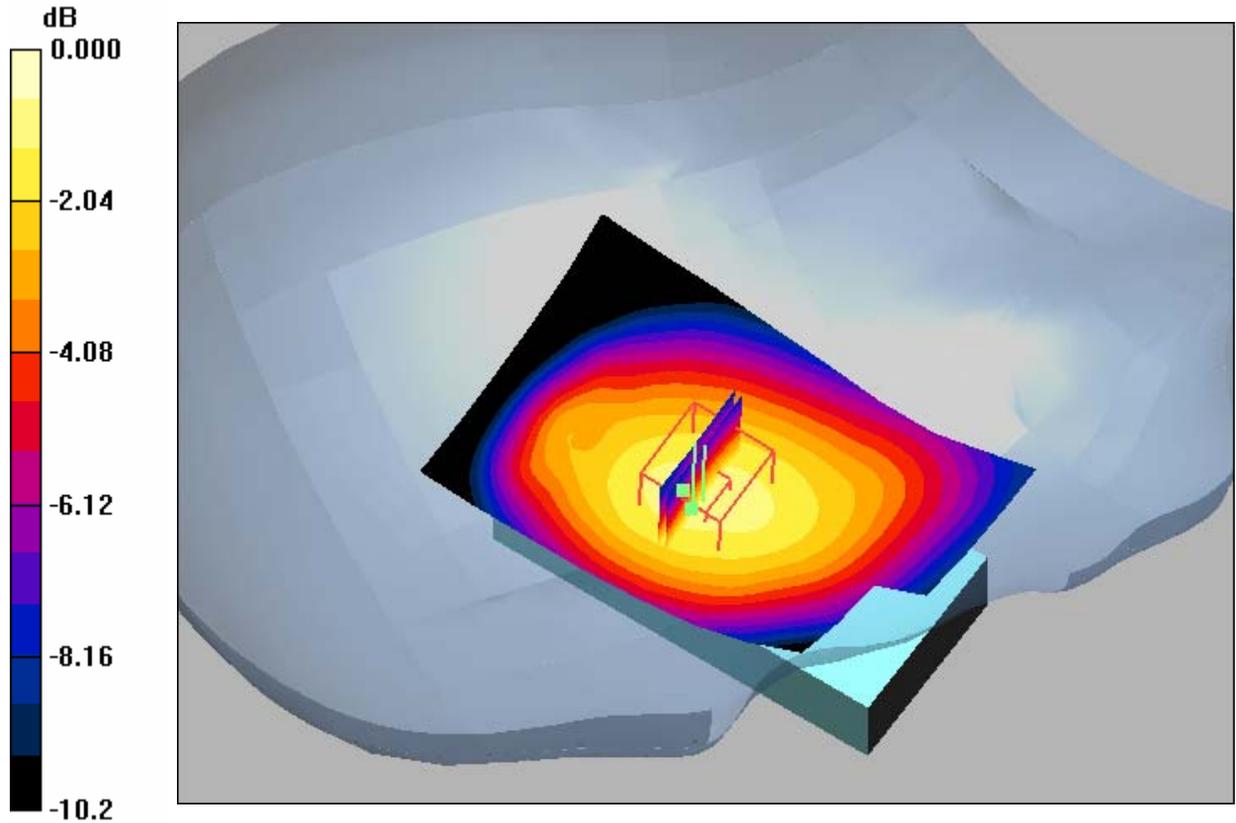
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.9 V/m; Power Drift = -0.039 dB

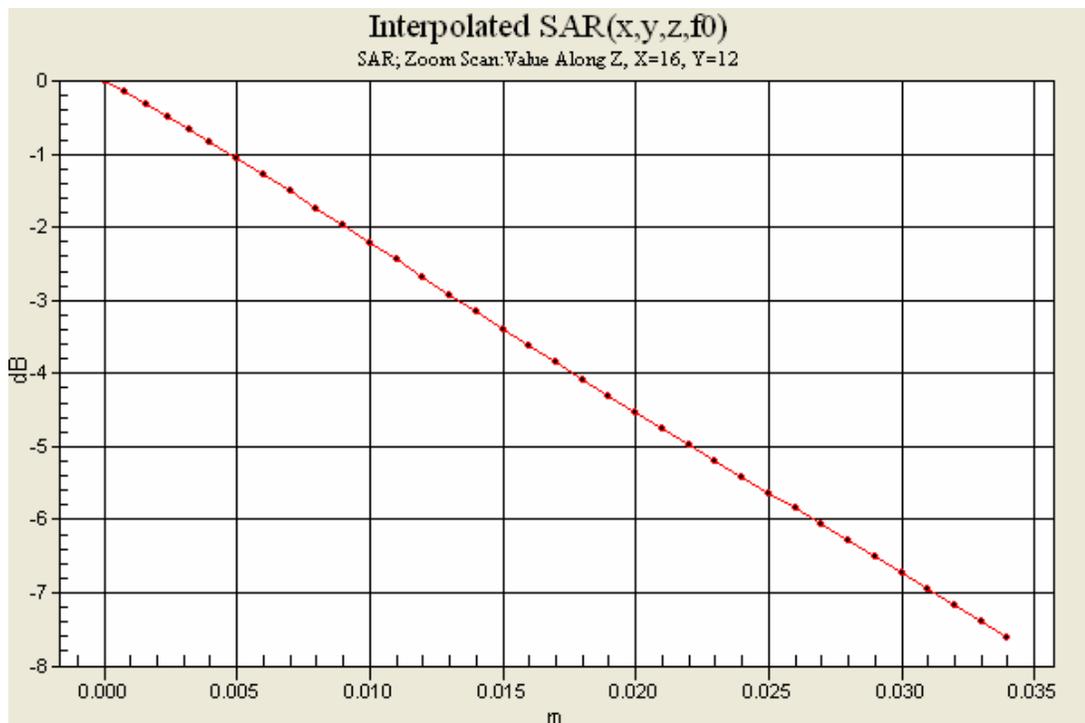
Maximum value of SAR (interpolated) = 0.225 mW/g



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0 dB = 0.225mW/g





Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 001 W760i 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	14 April 2008	A

Band II UMTS: Distribution and Extrapolation of Maximum SAR

Model: W760i with Standard Battery: BST-38, Right Cheek Position.

Date/Time: 4/1/2008 8:39:34 AM

File Name: [01Apr08_W760i_B2WCDMA_2FBT_RC01.da4](#)

DUT: W760i closed

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

Probe: ET3DV6 - SN1586 ConvF(5.17, 5.17, 5.17)

Medium parameters used (interpolated): $f = 1852.6$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 38.4$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery - BST38 Humidity - 44.9 % Ambient Temp - 22.2 C Simulant Temp - 22 C

DASY4 Configuration:

- Probe: ET3DV6 - SN1586; ConvF(5.17, 5.17, 5.17); Calibrated: 5/23/2007

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

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

- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1335

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

Low Channel/Area Scan (51x81x1):

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

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

Maximum value of SAR (interpolated) = 0.917 mW/g

Low Channel/Zoom Scan (7x7x7)/Cube 0:

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

Reference Value = 14.5 V/m; Power Drift = -0.031 dB

Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.784 mW/g; SAR(10 g) = 0.459 mW/g

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

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

Low Channel/Zoom Scan (7x7x7)/Cube 1:

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

Reference Value = 14.5 V/m; Power Drift = -0.031 dB

Peak SAR (extrapolated) = 0.796 W/kg

SAR(1 g) = 0.557 mW/g; SAR(10 g) = 0.366 mW/g

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

Maximum value of SAR (measured) = 0.602 mW/g

Low Channel/Zoom Scan (31x31x36)/Cube 0:

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

Reference Value = 14.5 V/m; Power Drift = -0.031 dB

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

Maximum value of SAR (interpolated) = 1.25 mW/g

Low Channel/Zoom Scan (31x31x36)/Cube 1:

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

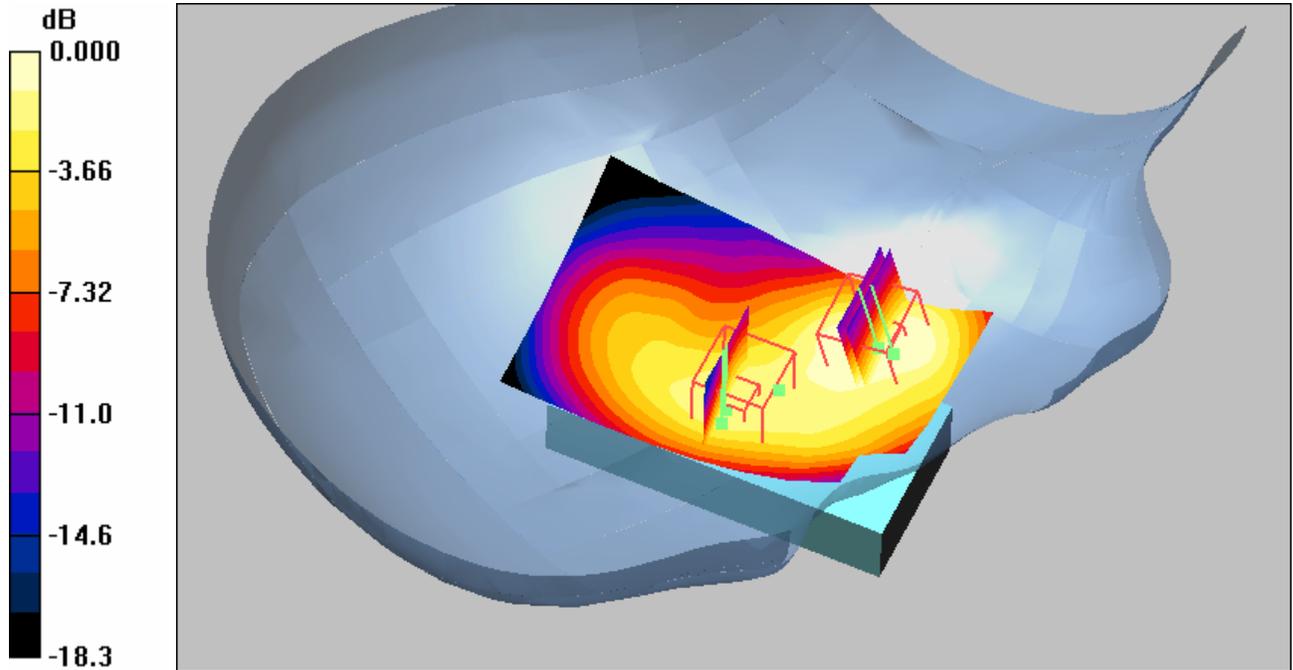
Reference Value = 14.5 V/m; Power Drift = -0.031 dB

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

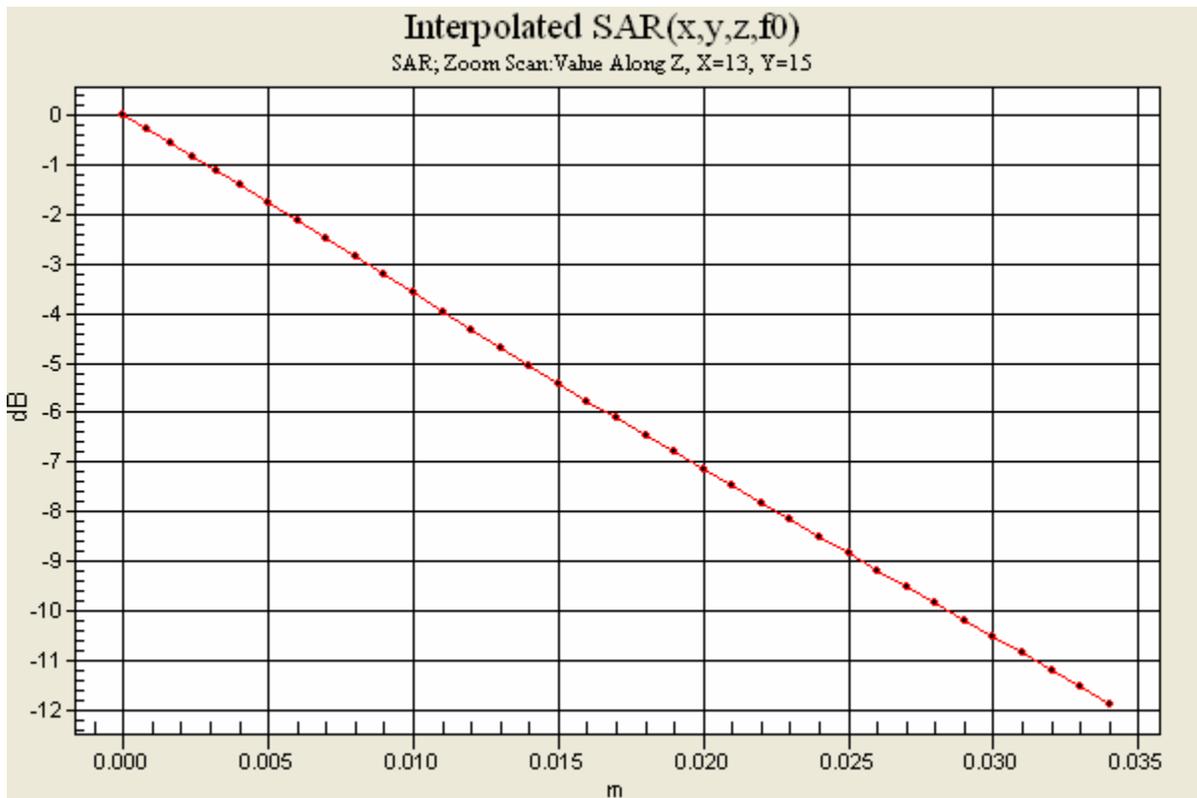
Maximum value of SAR (interpolated) = 0.796 mW/g



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0 dB = 0.796mW/g





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Band II UMTS: Distribution and Extrapolation of Maximum SAR

Model: W760i with Standard Battery: BST-38, Left Tilt Position.

Date/Time: 4/1/2008 7:32:42 AM

File Name: [01Apr08_W760i_B2WCDMA_2FBT_LT01_da4](#)

DUT: W760i closed

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

Probe: ET3DV6 - SN1586 ConvF(5.17, 5.17, 5.17)

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 38.3$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery - BST38 Humidity - 43.8 % Ambient Temp - 22.1 C Simulant Temp - 22 C

DASY4 Configuration:

- Probe: ET3DV6 - SN1586; ConvF(5.17, 5.17, 5.17); Calibrated: 5/23/2007

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

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

- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1335

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

Middle Channel/Area Scan (51x81x1):

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

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

Middle Channel/Zoom Scan (7x7x7)/Cube 0:

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

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

Peak SAR (extrapolated) = 0.569 W/kg

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

Maximum value of SAR (measured) = 0.441 mW/g

Middle Channel/Zoom Scan (31x31x36)/Cube 0:

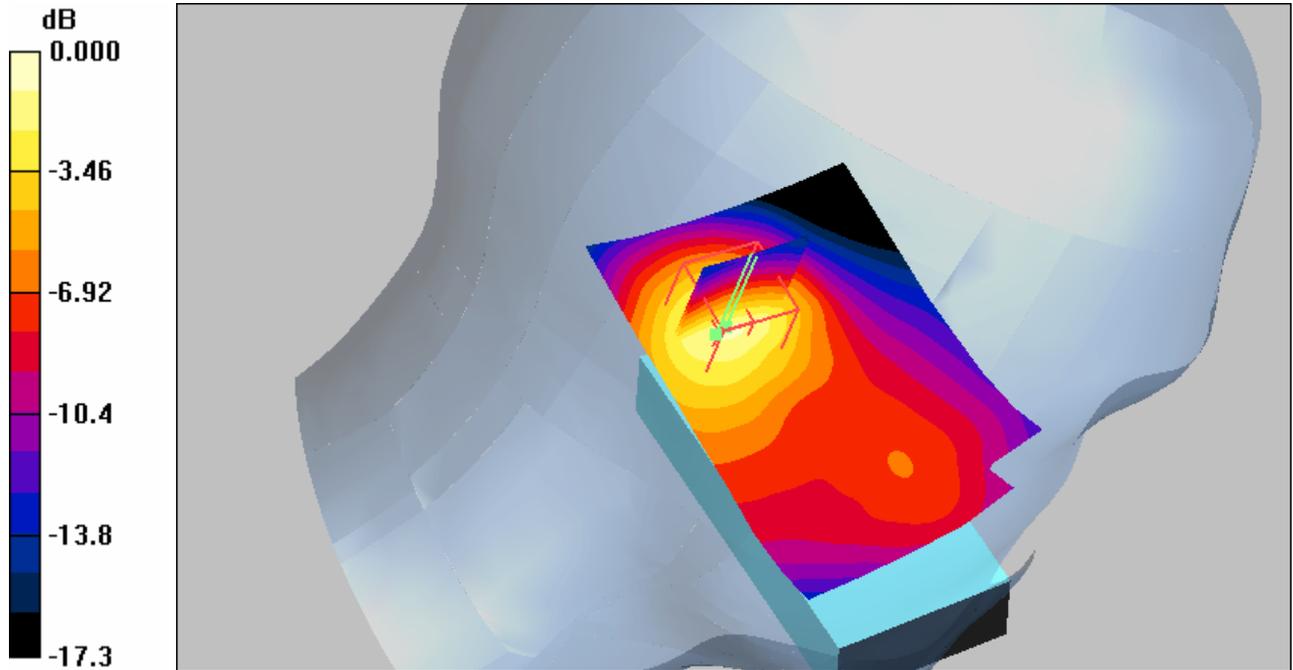
Measurement grid: dx=5mm, dy=5mm, dz=5mm

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

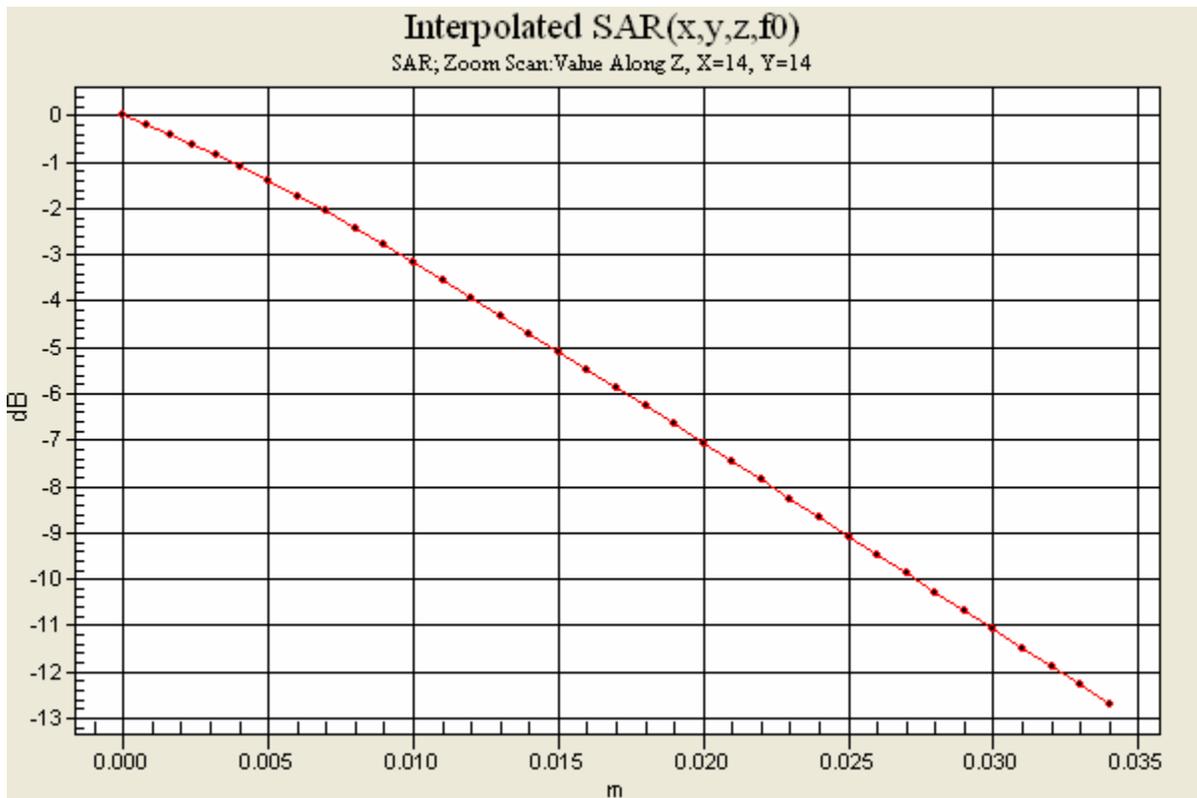
Maximum value of SAR (interpolated) = 0.569 mW/g



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0 dB = 0.569mW/g





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800 GSM Band: SAR Distribution and Extrapolation of Maximum SAR Model: W760i with Standard Battery: BST-38, Right Cheek Open Position.

Date/Time: 4/12/2008 6:41:30 AM

File Name: [12Apr08_W760i_GSM850_2FAE_open_RC01.da4](#)

DUT: W760i open

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

Probe: ET3DV6 - SN1538ConvF(6.36, 6.36, 6.36)

Medium parameters used (interpolated): f = 849 MHz; $\sigma = 0.929$ mho/m; $\epsilon_r = 42.3$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery BST-38 Humidity - 38.9 % Ambient Temp - 21.8 C Simulant Temp - 21.6 C

DASY4 Configuration:

- Probe: ET3DV6 - SN1538; ConvF(6.36, 6.36, 6.36); Calibrated: 5/23/2007

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

- Electronics: DAE3 Sn431; 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) = 0.275 mW/g

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

Reference Value = 6.65 V/m; Power Drift = -0.027 dB

Peak SAR (extrapolated) = 0.337 W/kg

SAR(1 g) = 0.258 mW/g; SAR(10 g) = 0.190 mW/g

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

Maximum value of SAR (measured) = 0.273 mW/g

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

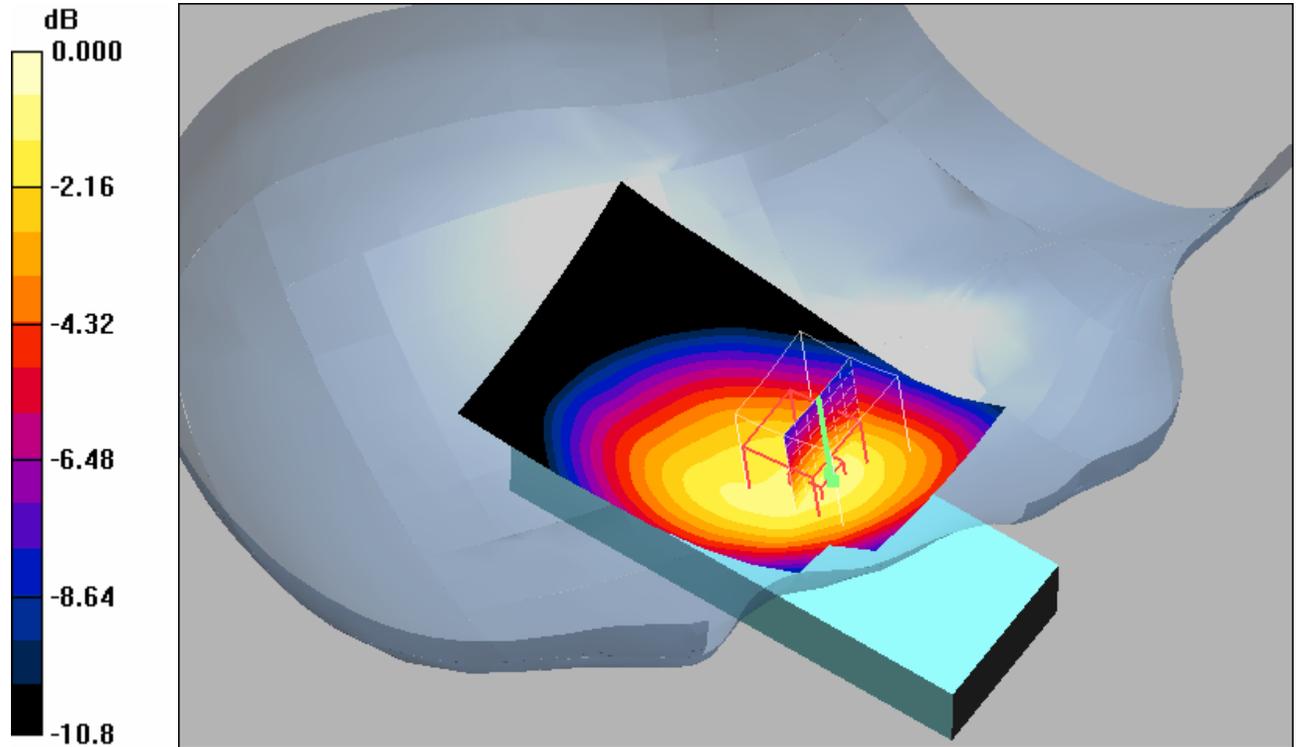
Reference Value = 6.65 V/m; Power Drift = -0.027 dB

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

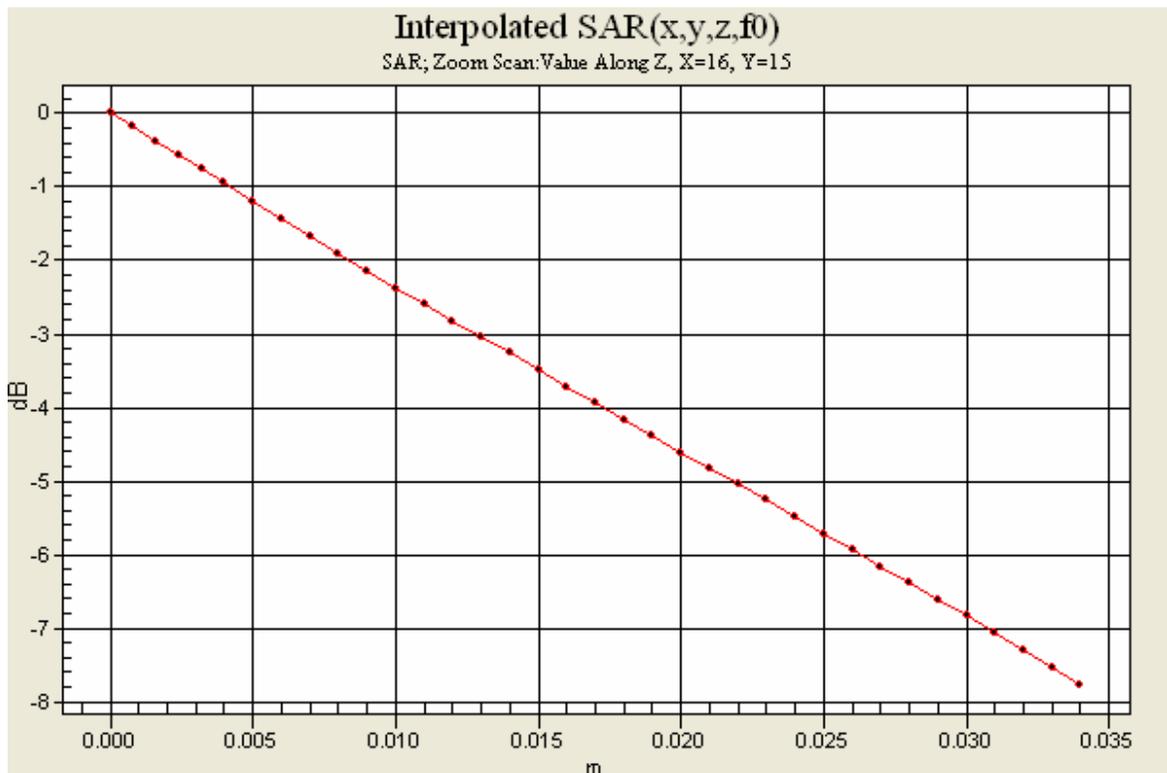
Maximum value of SAR (interpolated) = 0.337 mW/g



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0 dB = 0.337mW/g





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800 GSM Band: Distribution and Extrapolation of Maximum SAR

Model: W760i with Standard Battery: BST-38, Left Tilt Open Position.

Date/Time: 3/18/2008 11:16:52 AM

File Name: [18Mar08_W760i_GSM850_2FAE_open_LT01.da4](#)

DUT: W760i open

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

Probe: ET3DV6 - SN1538 ConvF(6.36, 6.36, 6.36)

Medium parameters used (interpolated): $f = 836 \text{ MHz}$; $\sigma = 0.904 \text{ mho/m}$; $\epsilon_r = 41.2$; $\rho = 1000 \text{ kg/m}^3$

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery BST-38

Humidity: 31.7 % Ambient Temp: 22.9 C Simulant Temp: 22.6 C

DASY4 Configuration:

- Probe: ET3DV6 - SN1538; ConvF(6.36, 6.36, 6.36); Calibrated: 5/23/2007

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

- Electronics: DAE3 Sn431; 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

Middle Channel/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) = 0.153 mW/g

Middle Channel/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.26 V/m; Power Drift = -0.012 dB

Peak SAR (extrapolated) = 0.183 W/kg

SAR(1 g) = 0.145 mW/g; SAR(10 g) = 0.107 mW/g

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

Maximum value of SAR (measured) = 0.152 mW/g

Middle Channel/Zoom Scan (31x31x36)/Cube 0:

Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

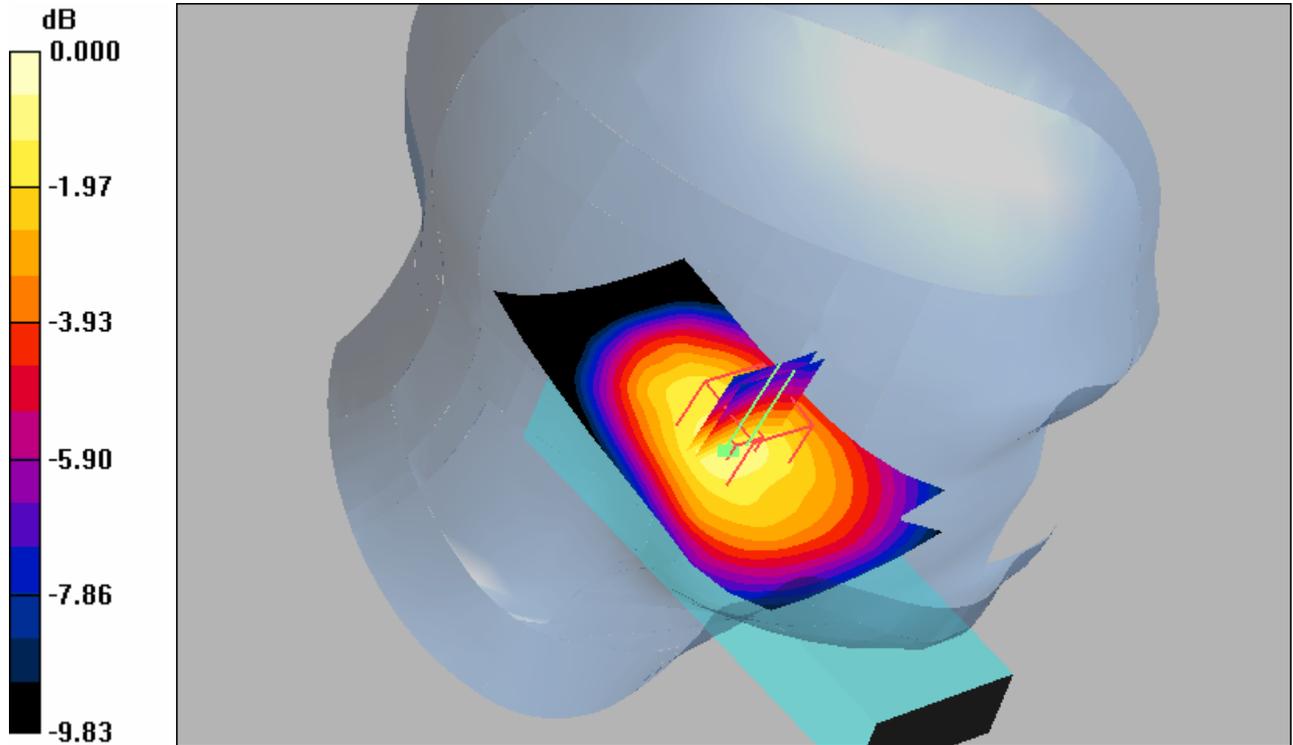
Reference Value = 9.26 V/m; Power Drift = -0.012 dB

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

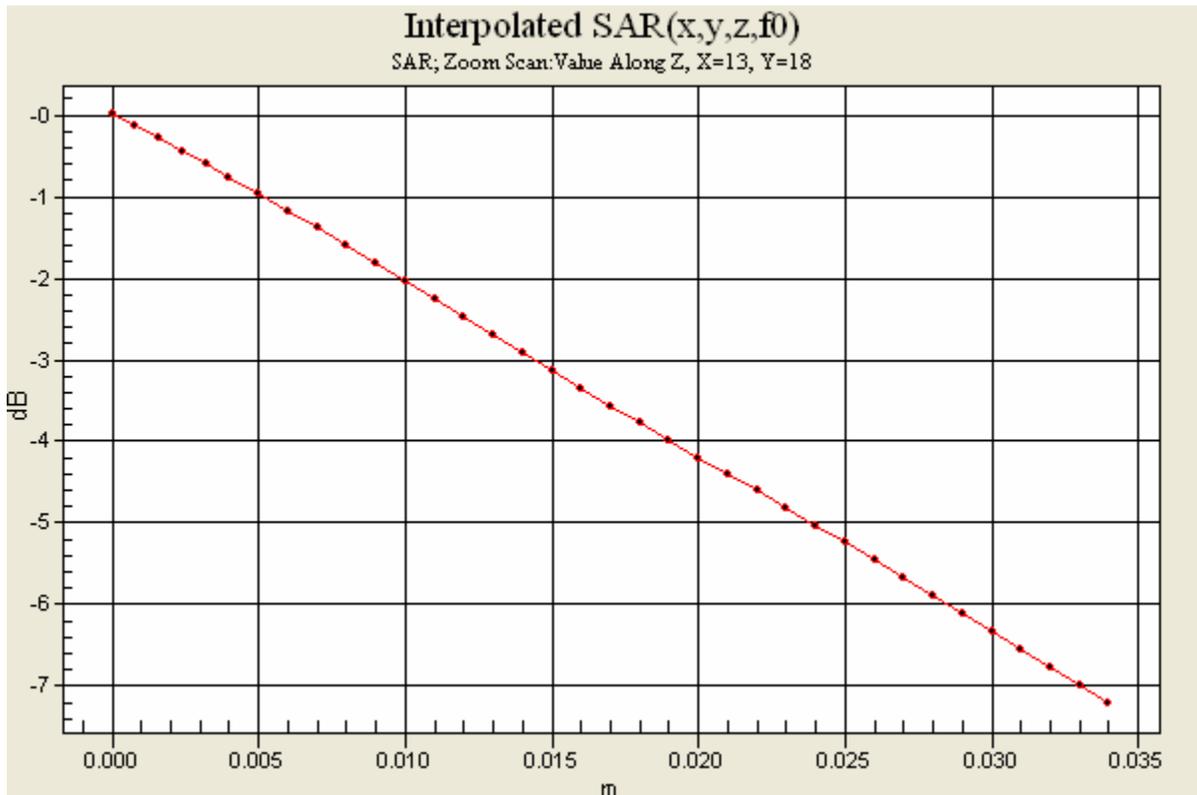
Maximum value of SAR (interpolated) = 0.183 mW/g



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0 dB = 0.183mW/g





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Band V UMTS: Distribution and Extrapolation of Maximum SAR

Model: W760i with Standard Battery: BST-38, Left Cheek Open Position.

Date/Time: 3/31/2008 12:53:01 PM

File Name: [31Mar08_W760i_B5WCDMA_2FAE_open_LC01.da4](#)

DUT: W760i closed

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

Probe: ET3DV6 - SN1538 ConvF(6.36, 6.36, 6.36)

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.895 \text{ mho/m}$; $\epsilon_r = 40.3$; $\rho = 1000 \text{ kg/m}^3$

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery BST-38

Humidity: 31.6 % Ambient Temp: 21.5 C Simulant Temp: 21.3 C

DASY4 Configuration:

- Probe: ET3DV6 - SN1538; ConvF(6.36, 6.36, 6.36); Calibrated: 5/23/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn431; 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

Middle Channel/Area Scan (51x81x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Middle Channel/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.66 V/m; Power Drift = 0.016 dB

Peak SAR (extrapolated) = 0.495 W/kg

SAR(1 g) = 0.364 mW/g; SAR(10 g) = 0.263 mW/g

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

Middle Channel/Zoom Scan (31x31x36)/Cube 0:

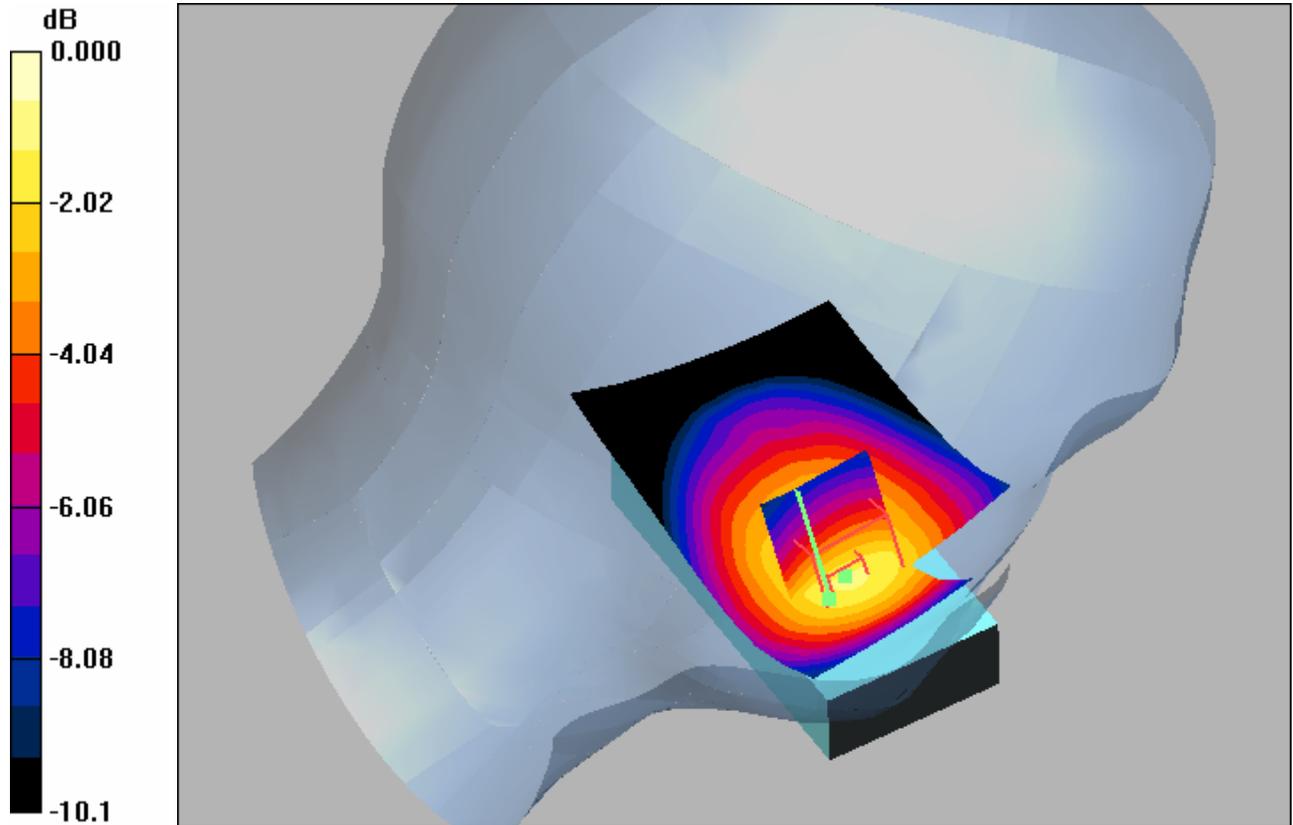
Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.66 V/m; Power Drift = 0.016 dB

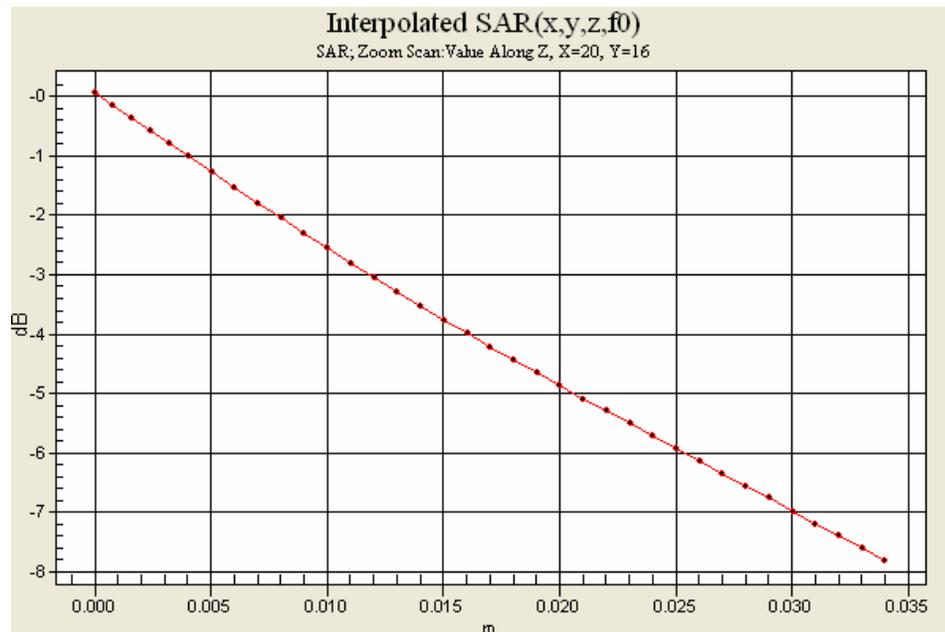
Maximum value of SAR (interpolated) = 0.495 mW/g



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0 dB = 0.495mW/g





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Band V UMTS: Distribution and Extrapolation of Maximum SAR

Model: W760i with Standard Battery: BST-38, Left Tilt Open Position.

Date/Time: 3/31/2008 1:13:00 PM

File Name: [31Mar08_W760i_B5WCDMA_2FAE_open_LT01.da4](#)

DUT: W760i closed

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

Probe: ET3DV6 - SN1538 ConvF(6.36, 6.36, 6.36)

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.895 \text{ mho/m}$; $\epsilon_r = 40.3$; $\rho = 1000 \text{ kg/m}^3$

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery BST-38

Humidity: 31.6 % Ambient Temp: 21.5 C Simulant Temp: 21.3 C

DASY4 Configuration:

- Probe: ET3DV6 - SN1538; ConvF(6.36, 6.36, 6.36); Calibrated: 5/23/2007

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

- Electronics: DAE3 Sn431; 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

Middle Channel/Area Scan (51x81x1):

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

Maximum value of SAR (interpolated) = 0.244 mW/g

Middle Channel/Zoom Scan (7x7x7)/Cube 0:

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

Reference Value = 12.6 V/m; Power Drift = 0.017 dB

Peak SAR (extrapolated) = 0.297 W/kg

SAR(1 g) = 0.233 mW/g; SAR(10 g) = 0.173 mW/g

Maximum value of SAR (measured) = 0.247 mW/g

Middle Channel/Zoom Scan (31x31x36)/Cube 0:

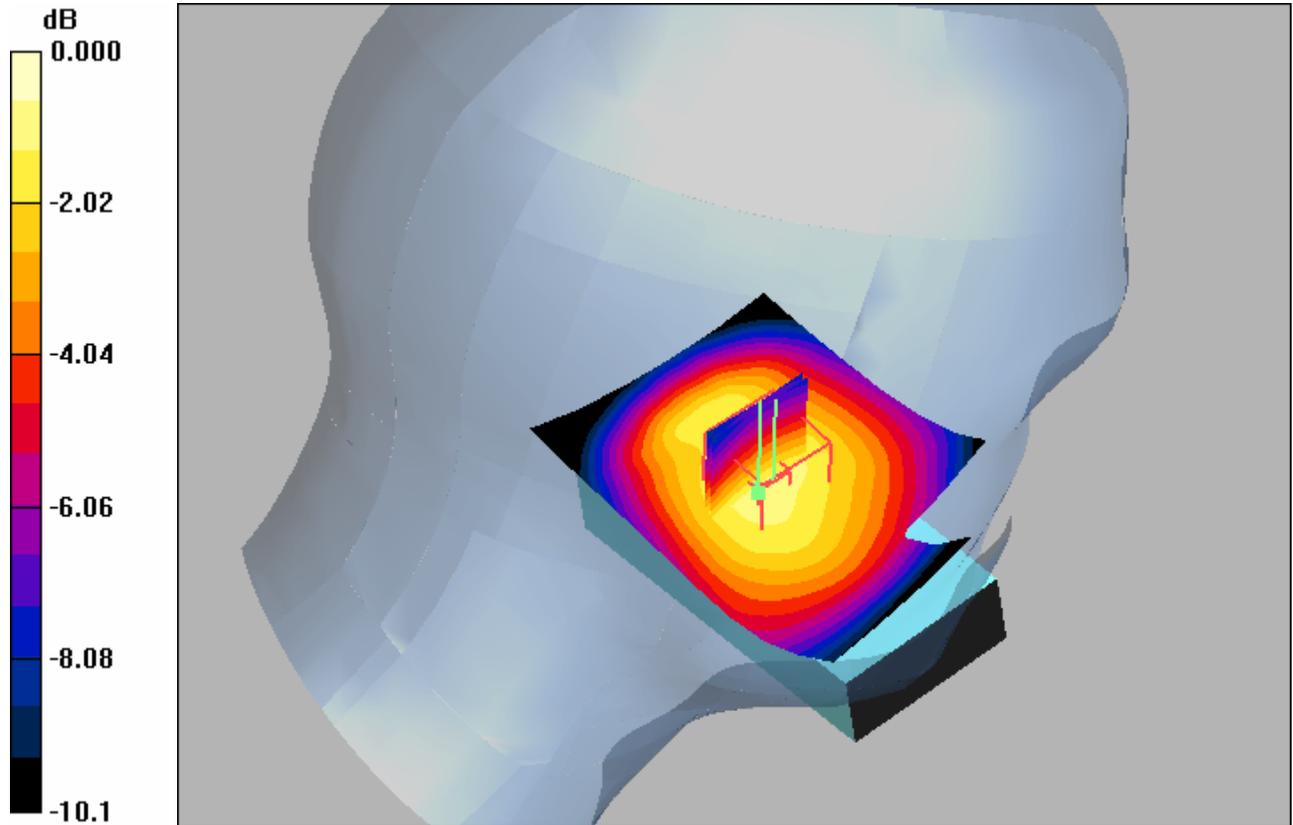
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.6 V/m; Power Drift = 0.017 dB

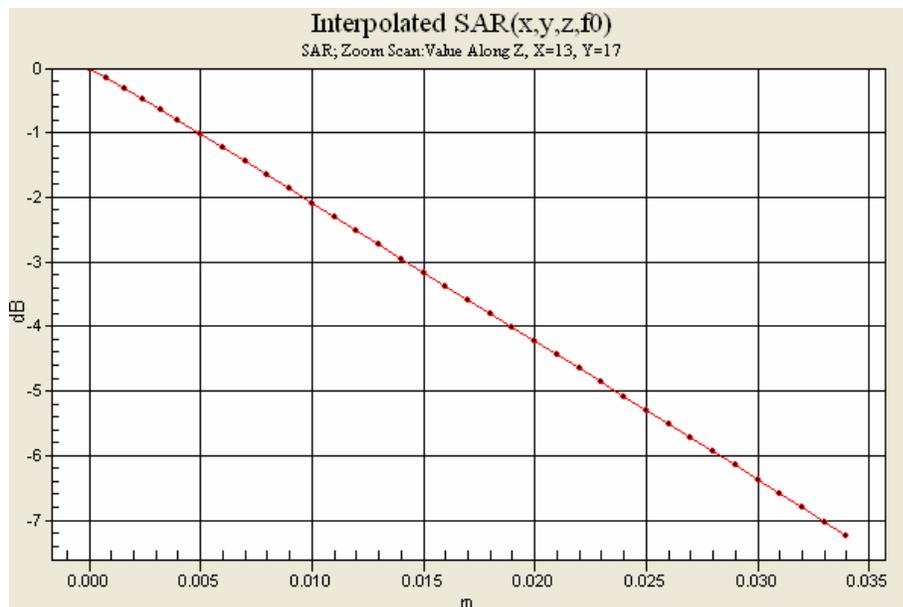
Maximum value of SAR (interpolated) = 0.297 mW/g



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0 dB = 0.297mW/g





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Appendix 3

SAR distribution plots for Body Worn Configuration



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 001 W760i 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: 3/13/2008 8:03:28 AM

File Name: [13Mar08_W760i_GSM835_2FAE_15mm_BB01.da4](#)

DUT: W760i 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): $f = 849 \text{ MHz}$; $\sigma = 1.03 \text{ mho/m}$; $\epsilon_r = 52.3$; $\rho = 1000 \text{ kg/m}^3$

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery - BST38

Humidity - 32.6 % Ambient Temp - 21.3 C Simulant Temp - 21.8 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

High Channel/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) = 0.616 mW/g

High Channel/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 17.9 V/m; Power Drift = 0.008 dB

Peak SAR (extrapolated) = 0.787 W/kg

SAR(1 g) = 0.577 mW/g; SAR(10 g) = 0.404 mW/g

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

Maximum value of SAR (measured) = 0.616 mW/g

High Channel/Zoom Scan (31x31x36)/Cube 0:

Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

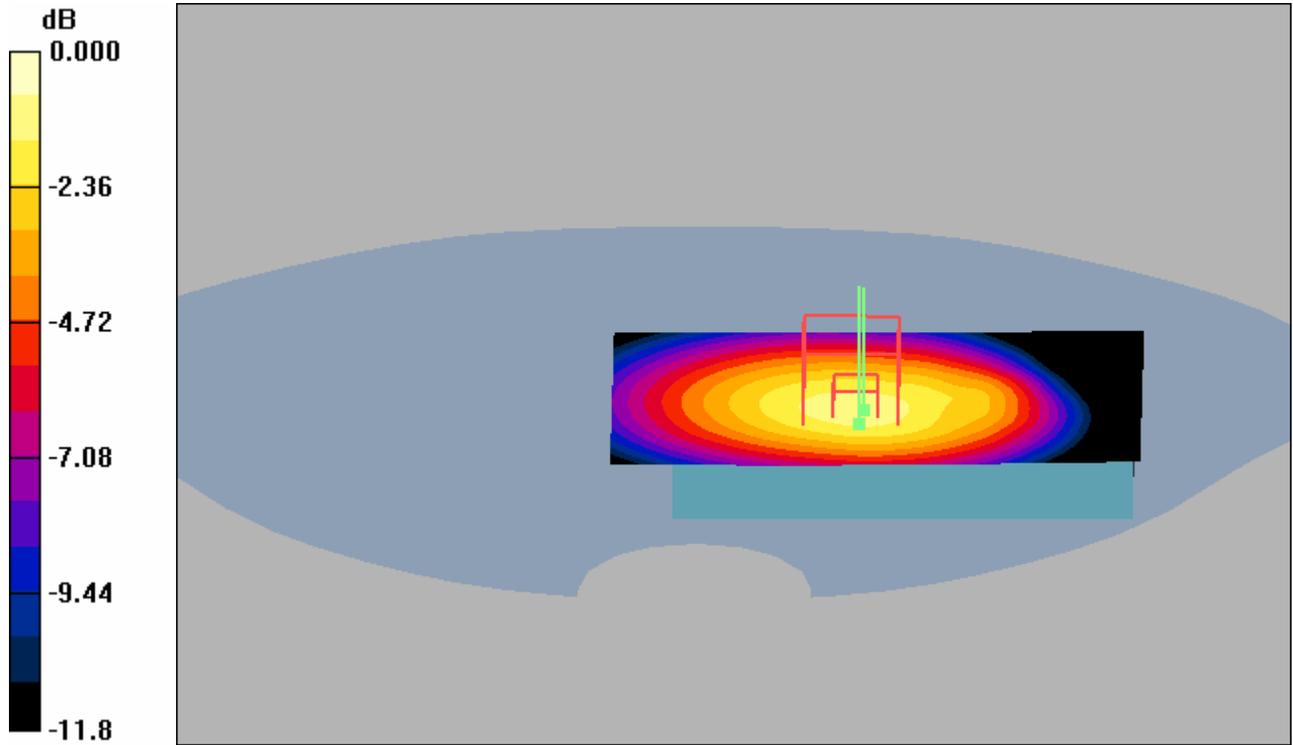
Reference Value = 17.9 V/m; Power Drift = 0.008 dB

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

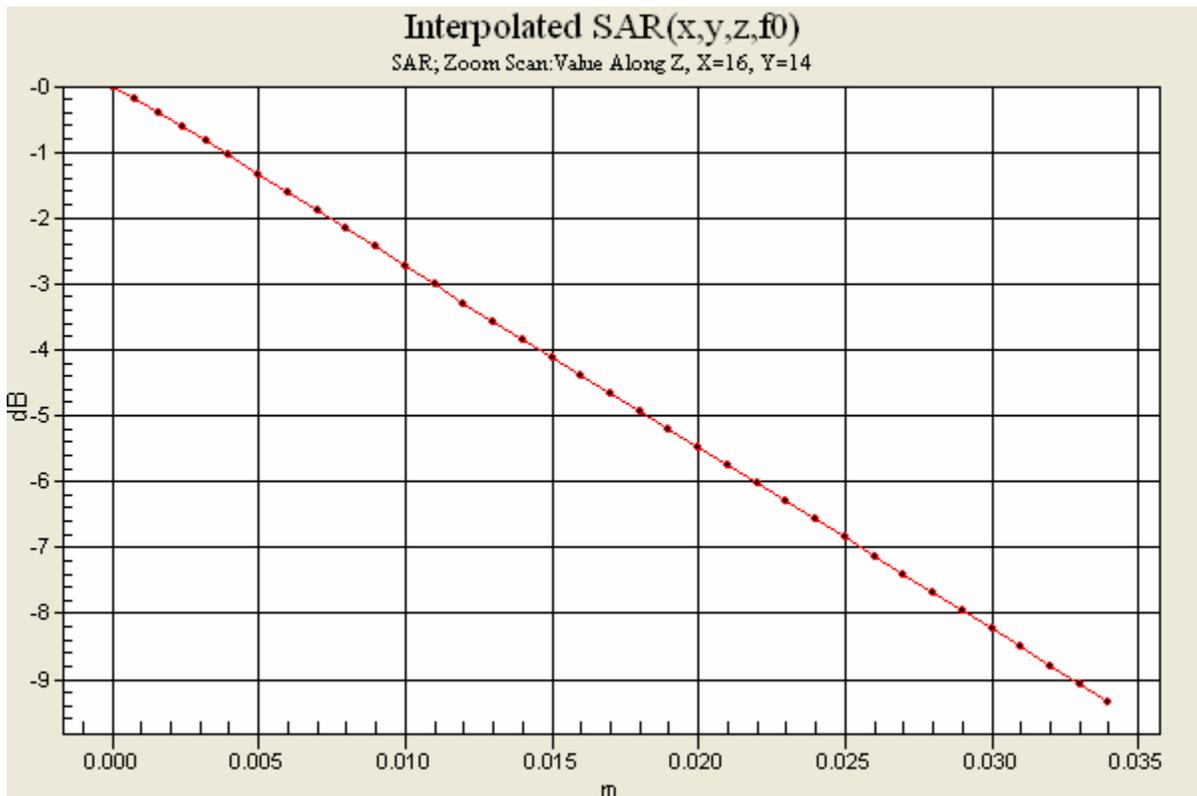
Maximum value of SAR (interpolated) = 0.787 mW/g



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0 dB = 0.787mW/g





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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: 3/13/2008 9:48:52 AM

File Name: [13Mar08_W760i_GSM835_2FAE_ICE30_BB01.da4](#)

DUT: W760i 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 - 32.4 % Ambient Temp - 20.7 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

High Channel/Area Scan (51x81x1):

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

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

Maximum value of SAR (interpolated) = 0.660 mW/g

High Channel/Zoom Scan (7x7x7)/Cube 0:

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

Reference Value = 17.9 V/m; Power Drift = -0.049 dB

Peak SAR (extrapolated) = 0.839 W/kg

SAR(1 g) = 0.623 mW/g; SAR(10 g) = 0.437 mW/g

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

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

High Channel/Zoom Scan (31x31x36)/Cube 0:

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

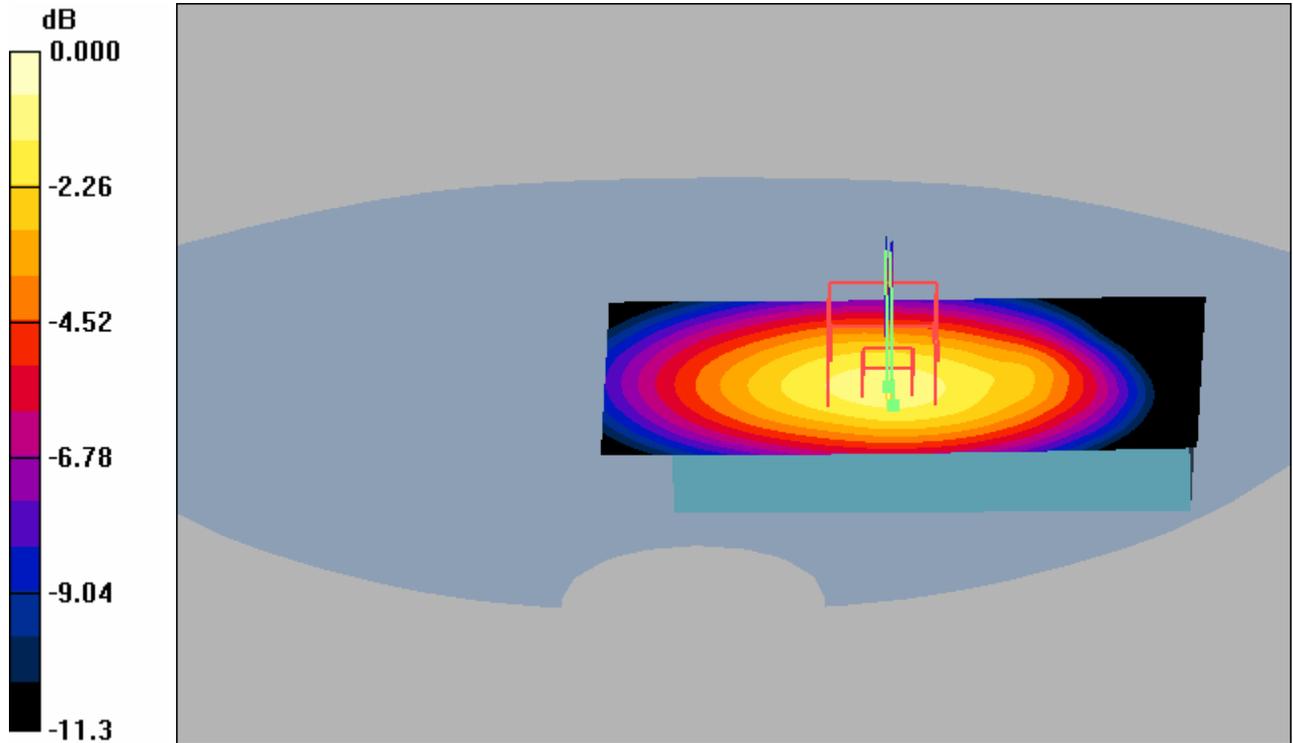
Reference Value = 17.9 V/m; Power Drift = -0.049 dB

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

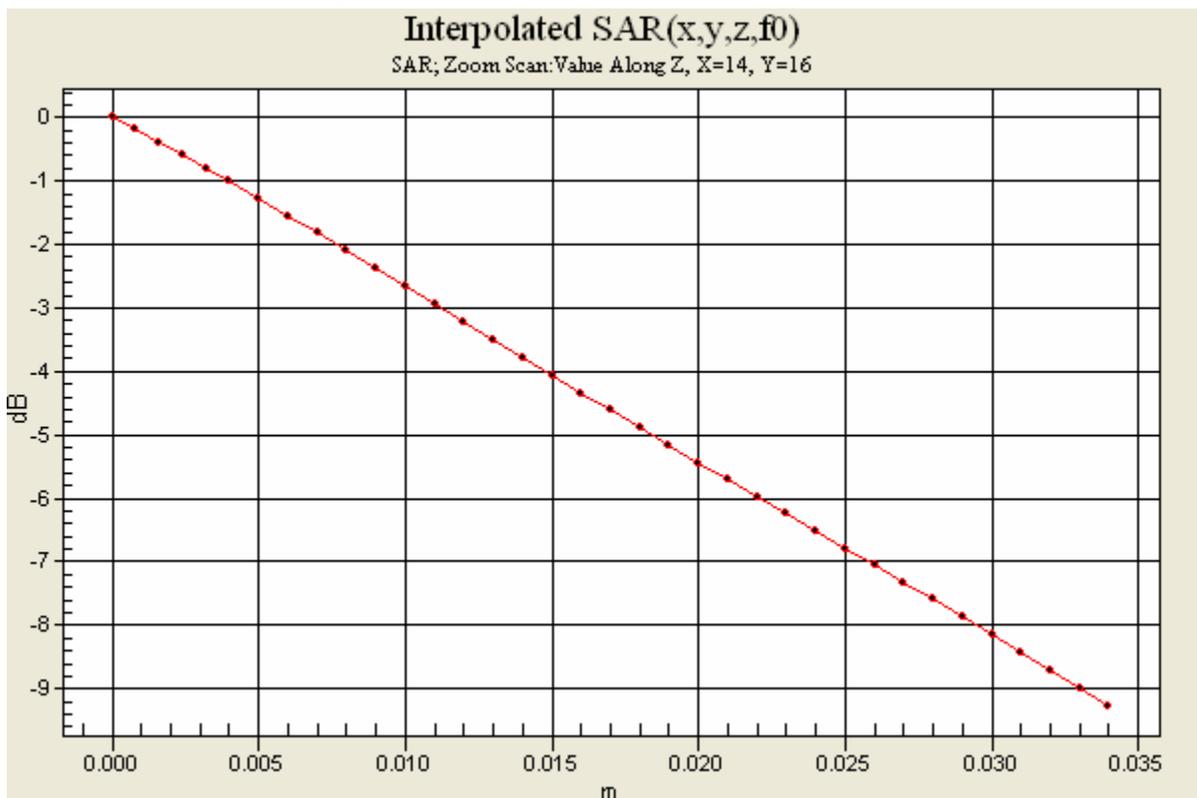
Maximum value of SAR (interpolated) = 0.839 mW/g



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0 dB = 0.839mW/g





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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: 3/15/2008 10:46:52 AM

File Name: [15Mar08_W760i_GSM1900_2ER6_15mm_BB01.da4](#)

DUT: W760i body

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

Probe: ET3DV6 - SN1587 ConvF(4.76, 4.76, 4.76)

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 51$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery - BST38

Humidity - 33.1 % Ambient Temp - 21.9 C Simulant Temp - 22 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

Low Channel/Area Scan (51x81x1):

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

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

Maximum value of SAR (interpolated) = 0.709 mW/g

Low Channel/Zoom Scan (7x7x7)/Cube 0:

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

Reference Value = 8.90 V/m; Power Drift = -0.093 dB

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.637 mW/g; SAR(10 g) = 0.380 mW/g

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

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

Low Channel/Zoom Scan (31x31x36)/Cube 0:

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

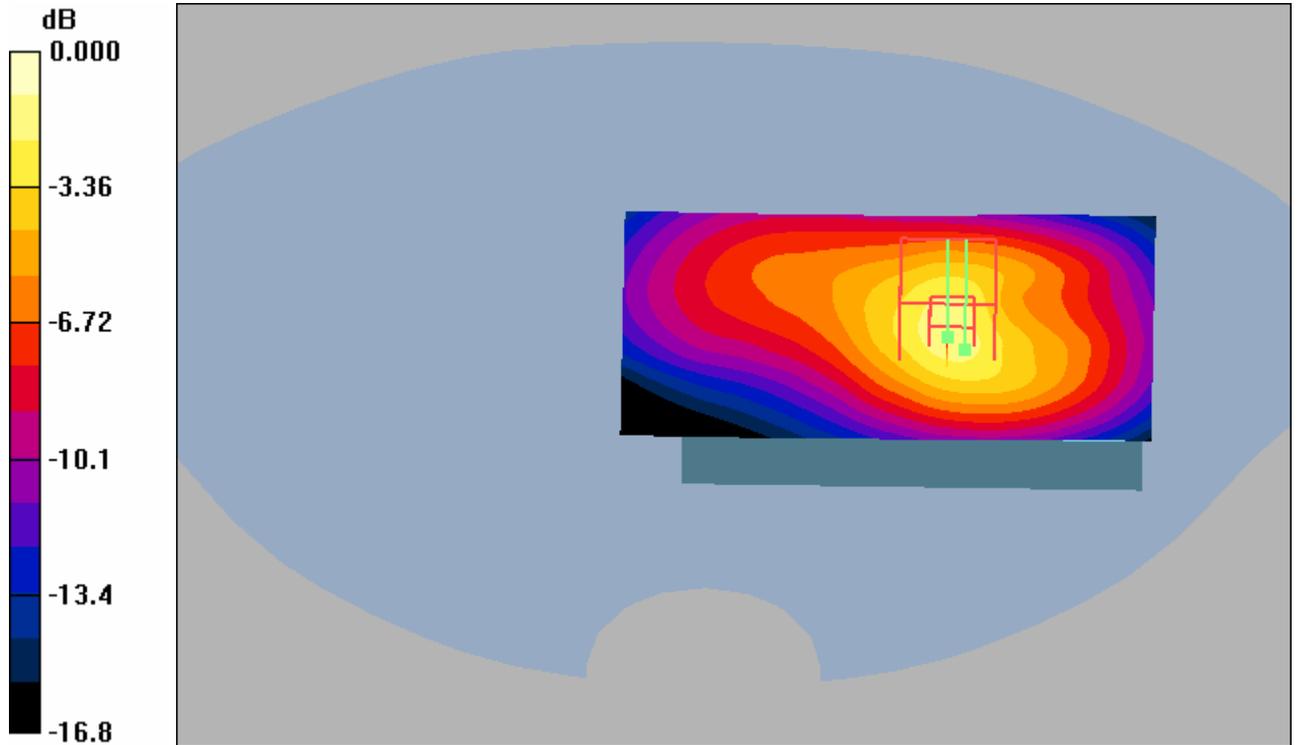
Reference Value = 8.90 V/m; Power Drift = -0.093 dB

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

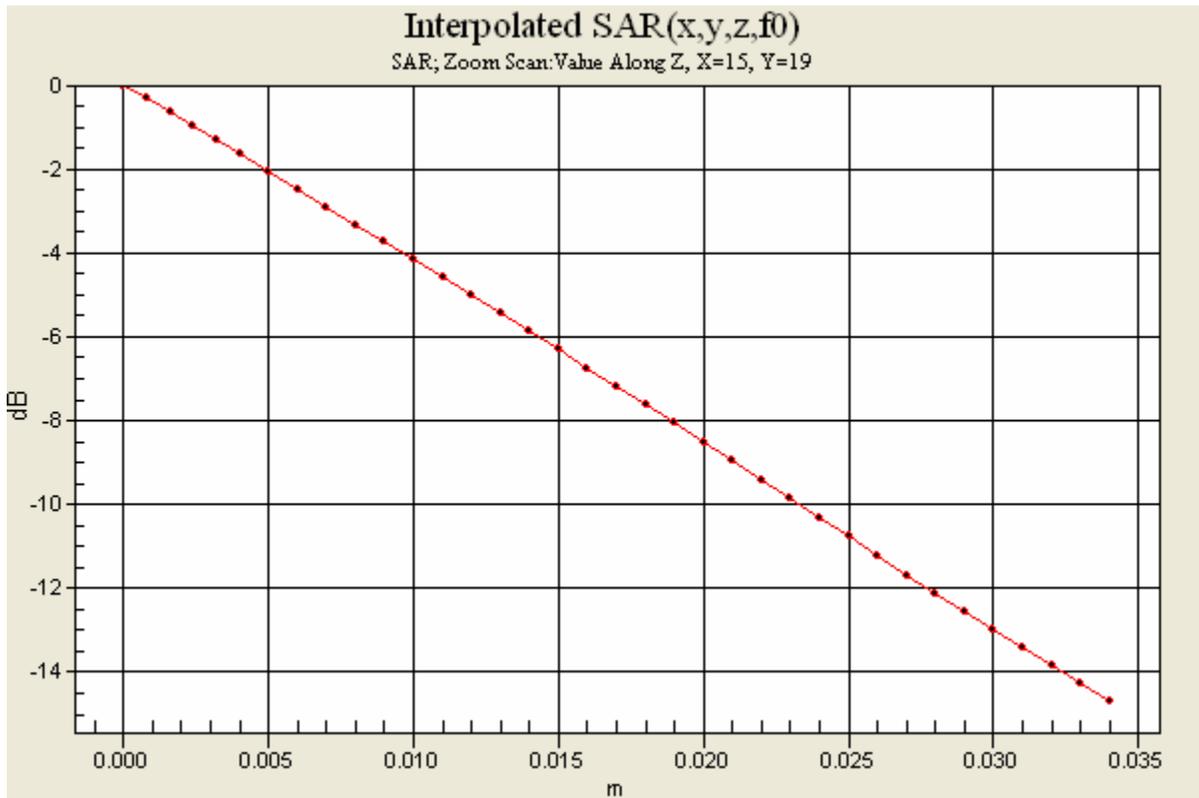
Maximum value of SAR (interpolated) = 1.01 mW/g



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 001 W760i 02		
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0 dB = 1.01mW/g





Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 001 W760i 02	
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SAR in 1900 GSM band. Measured with back of device facing the body using the ICE30 case. (Standard Battery, BST-38)

Date/Time: 3/15/2008 12:16:27 PM

File Name: [15Mar08_W760i_GSM1900_2ER6_ICE30_BB01.da4](#)

DUT: W760i body

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

Probe: ET3DV6 - SN1587 ConvF(4.76, 4.76, 4.76)

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 51$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery - BST38

Humidity - 33.4 % Ambient Temp - 22.1 C Simulant Temp - 22 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

Low Channel/Area Scan (51x81x1):

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

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

Maximum value of SAR (interpolated) = 0.587 mW/g

Low Channel/Zoom Scan (7x7x7)/Cube 0:

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

Reference Value = 9.33 V/m; Power Drift = -0.080 dB

Peak SAR (extrapolated) = 0.842 W/kg

SAR(1 g) = 0.531 mW/g; SAR(10 g) = 0.321 mW/g

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

Maximum value of SAR (measured) = 0.581 mW/g

Low Channel/Zoom Scan (31x31x36)/Cube 0:

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

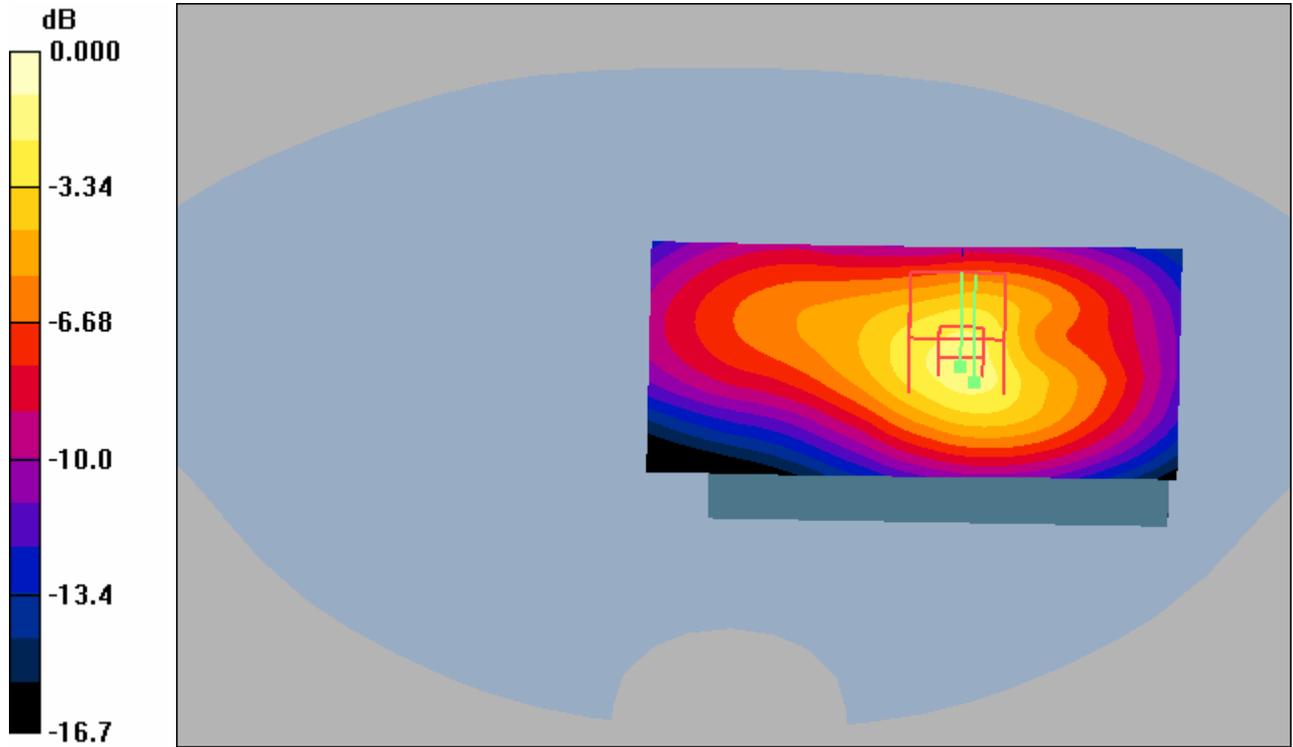
Reference Value = 9.33 V/m; Power Drift = -0.080 dB

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

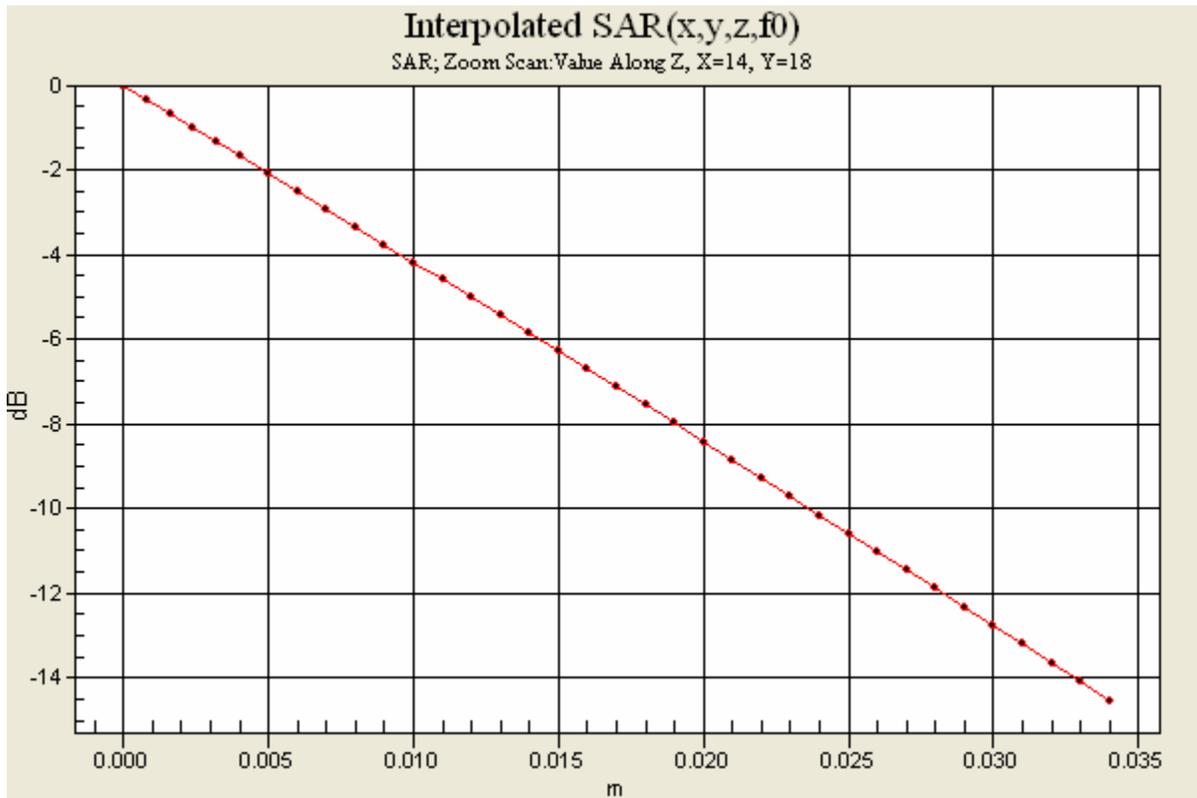
Maximum value of SAR (interpolated) = 0.842 mW/g



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0 dB = 0.842mW/g





Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 001 W760i 02	
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Distribution of maximum SAR in UMTS Band V (850MHz). Measured with back of device facing the body using a 15mm spacer. (Standard Battery, BST-38)

Date/Time: 4/1/2008 6:43:30 AM

File Name: [01Apr08_W760i_B5WCDMA_2FAE_15mm_BB01.da4](#)

DUT: W760i 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): $f = 846.4$ MHz; $\sigma = 1.03$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery - BST38

Humidity - 41.7 % Ambient Temp - 22.1 C Simulant Temp - 22 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

High Channel/Area Scan (51x81x1):

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

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

Maximum value of SAR (interpolated) = 0.386 mW/g

High Channel/Zoom Scan (7x7x7)/Cube 0:

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

Reference Value = 12.6 V/m; Power Drift = -0.005 dB

Peak SAR (extrapolated) = 0.492 W/kg

SAR(1 g) = 0.363 mW/g; SAR(10 g) = 0.255 mW/g

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

Maximum value of SAR (measured) = 0.386 mW/g

High Channel/Zoom Scan (31x31x36)/Cube 0:

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

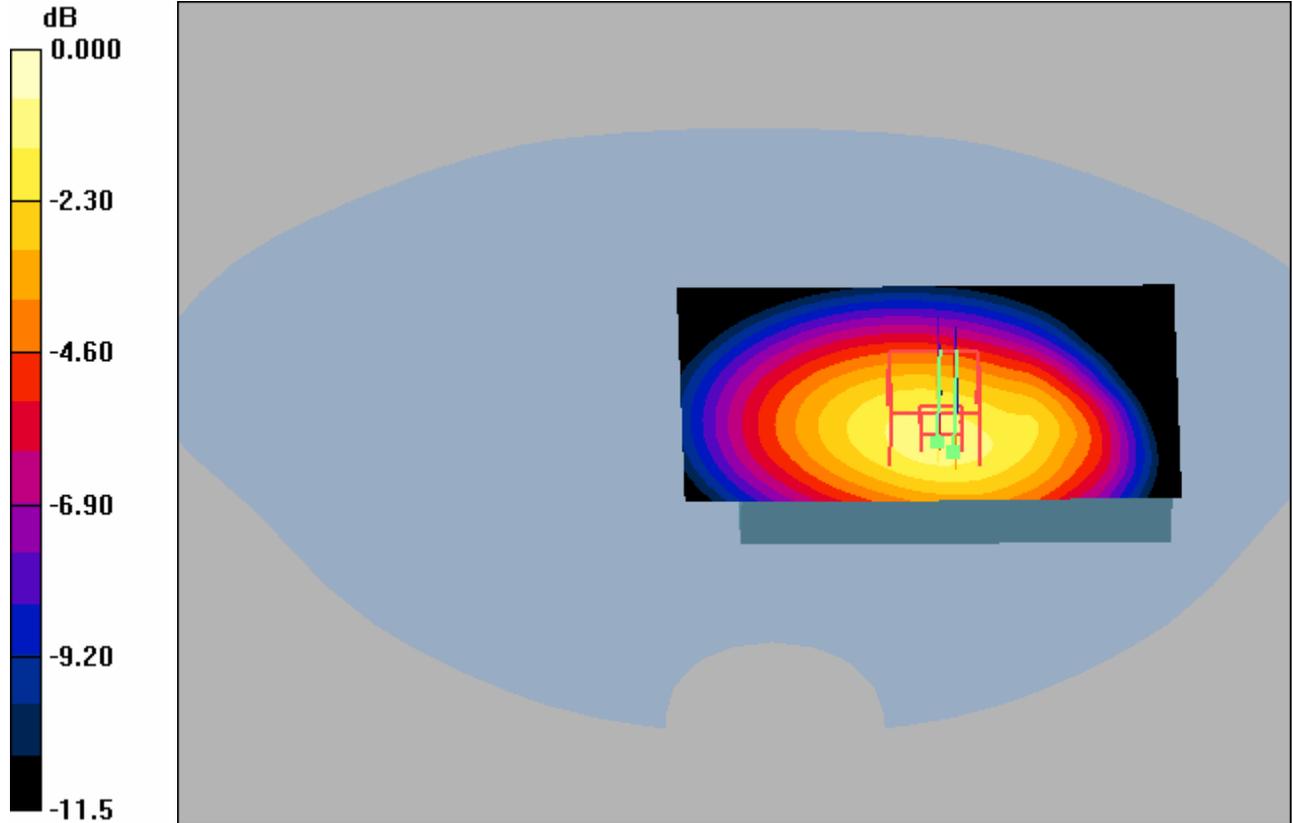
Reference Value = 12.6 V/m; Power Drift = -0.005 dB

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

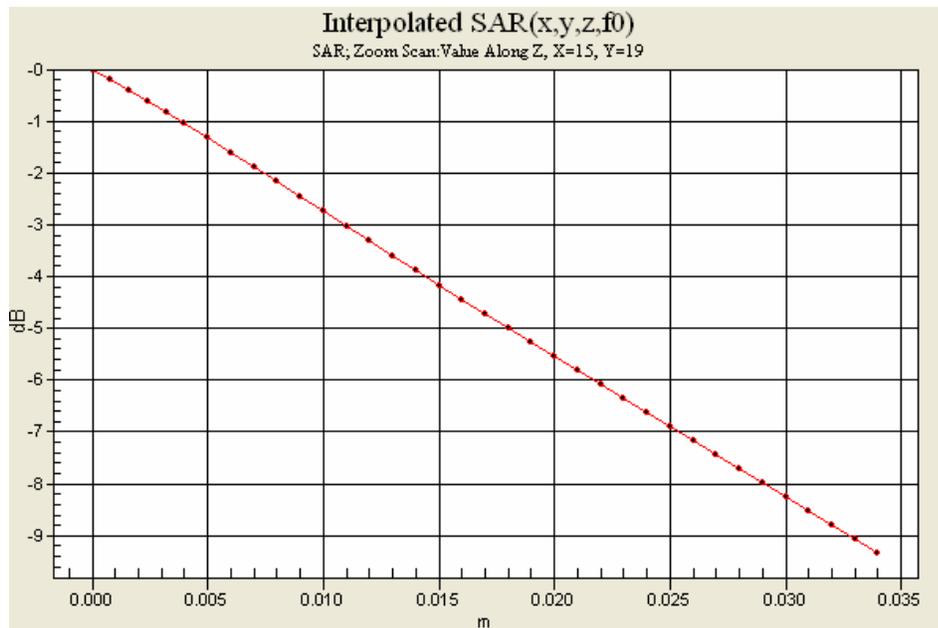
Maximum value of SAR (interpolated) = 0.492 mW/g



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0 dB = 0.492mW/g





Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 001 W760i 02	
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Distribution of maximum SAR in UMTS Band V (850MHz). Measured with back of device facing the body using the ICE30 case. (Standard Battery, BST-38)

Date/Time: 4/1/2008 8:54:24 AM

File Name: [01Apr08_W760i_B5WCDMA_2FAE_ICE30_BB01.da4](#)

DUT: W760i 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): $f = 846.4$ MHz; $\sigma = 1.03$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery - BST38

Humidity - 42.1 % Ambient Temp - 22.1 C Simulant Temp - 22 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

High Channel/Area Scan (51x81x1):

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

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

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

High Channel/Zoom Scan (7x7x7)/Cube 0:

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

Reference Value = 14.1 V/m; Power Drift = -0.048 dB

Peak SAR (extrapolated) = 0.520 W/kg

SAR(1 g) = 0.380 mW/g; SAR(10 g) = 0.266 mW/g

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

Maximum value of SAR (measured) = 0.410 mW/g

High Channel/Zoom Scan (31x31x36)/Cube 0:

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

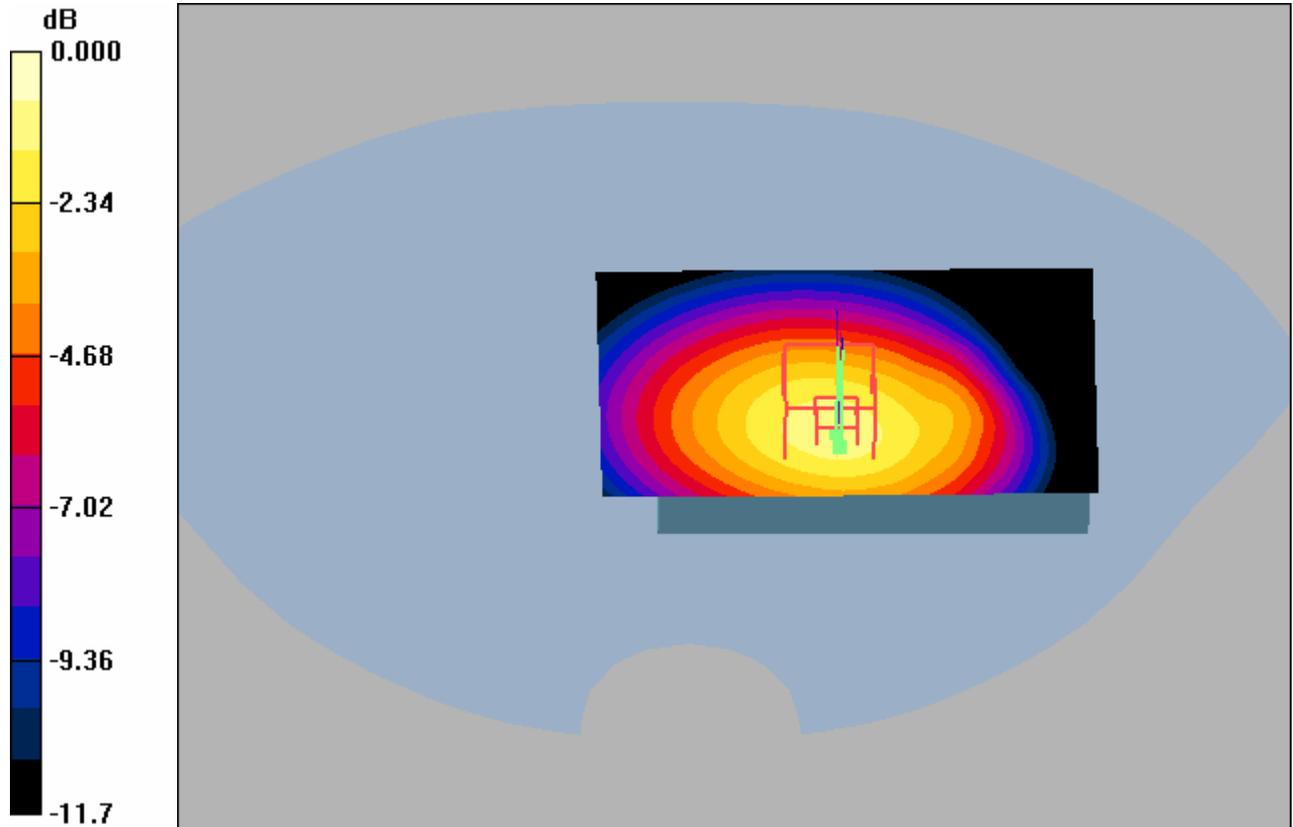
Reference Value = 14.1 V/m; Power Drift = -0.048 dB

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

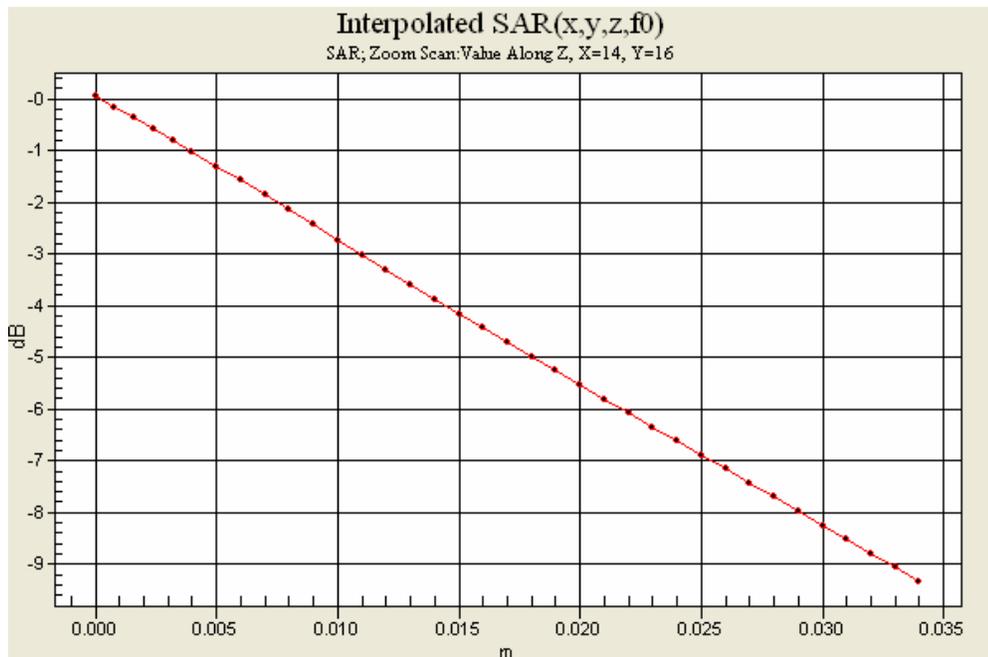
Maximum value of SAR (interpolated) = 0.520 mW/g



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0 dB = 0.520mW/g





Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 001 W760i 02	
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Distribution of maximum SAR in UMTS Band II (1900 MHz). Measured with back of device facing the body using a 15mm spacer. (Standard Battery, BST-38)

Date/Time: 4/3/2008 6:54:39 AM

File Name: [03Apr08_W760i_B2WCDMA_2FBT_15mm_BB01.da4](#)

DUT: W760i body

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

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery - BST38

Humidity - 36.1 % Ambient Temp - 21.6 C Simulant Temp - 21.7 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

Middle Channel/Area Scan (51x81x1):

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

Maximum value of SAR (interpolated) = 0.638 mW/g

Middle Channel/Zoom Scan (7x7x7)/Cube 0:

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

Reference Value = 8.71 V/m; Power Drift = 0.071 dB

Peak SAR (extrapolated) = 0.945 W/kg

SAR(1 g) = 0.594 mW/g; SAR(10 g) = 0.350 mW/g

Maximum value of SAR (measured) = 0.654 mW/g

Middle Channel/Zoom Scan (31x31x36)/Cube 0:

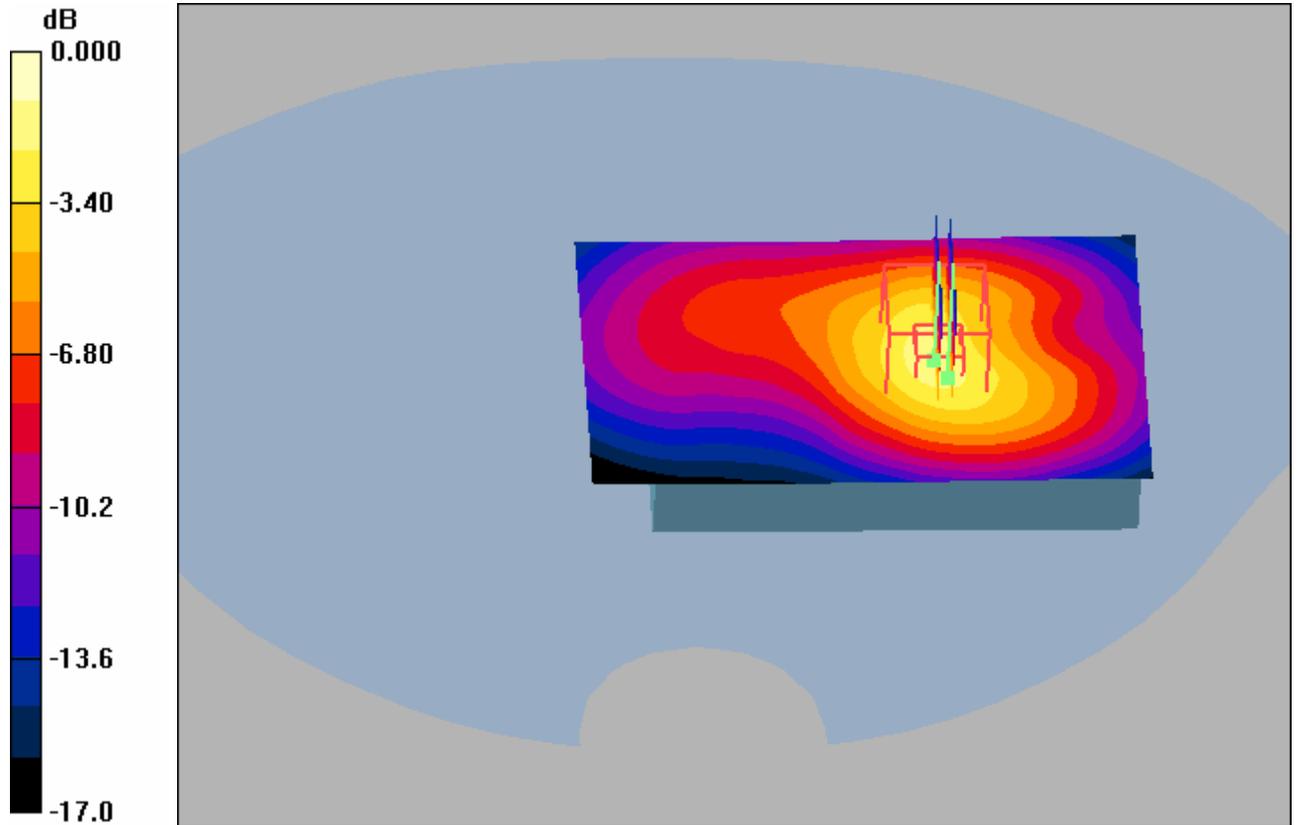
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.71 V/m; Power Drift = 0.071 dB

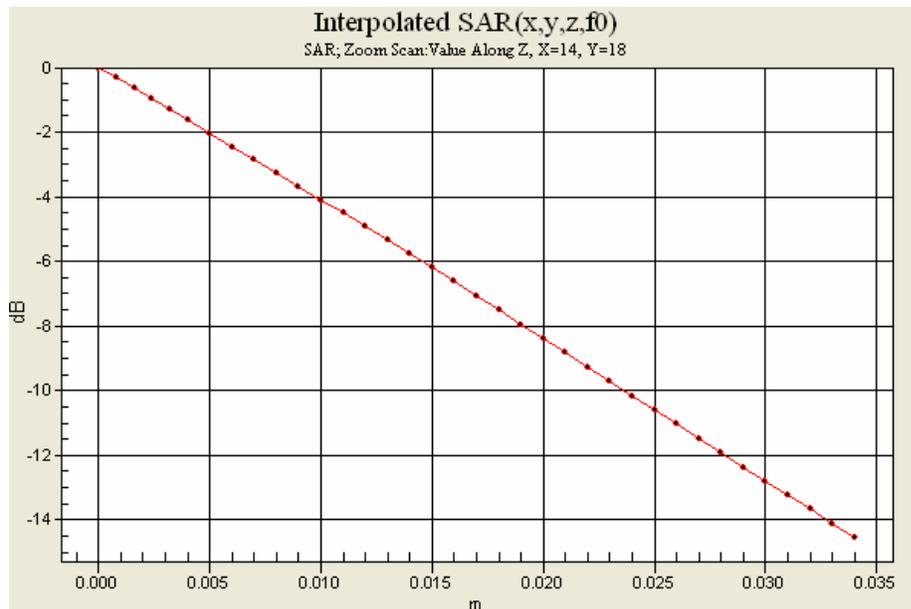
Maximum value of SAR (interpolated) = 0.945 mW/g



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0 dB = 0.945mW/g





Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 001 W760i 02	
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Distribution of maximum SAR in UMTS Band II (1900 MHz). Measured with back of device facing the body using the ICE30 case. (Standard Battery, BST-38)

Date/Time: 4/3/2008 9:00:35 AM

File Name: [03Apr08_W760i_B2WCDMA_2FBT_ICE30_BB01.da4](#)

DUT: W760i body

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

Probe: ET3DV6 - SN1587 ConvF(4.76, 4.76, 4.76)

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery - BST38

Humidity - 34.8 % Ambient Temp - 21.5 C Simulant Temp - 21.6 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

Middle Channel/Area Scan (51x81x1):

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

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

Middle Channel/Zoom Scan (7x7x7)/Cube 0:

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

Reference Value = 9.96 V/m; Power Drift = 0.009 dB

Peak SAR (extrapolated) = 0.913 W/kg

SAR(1 g) = 0.565 mW/g; SAR(10 g) = 0.337 mW/g

Maximum value of SAR (measured) = 0.614 mW/g

Middle Channel/Zoom Scan (31x31x36)/Cube 0:

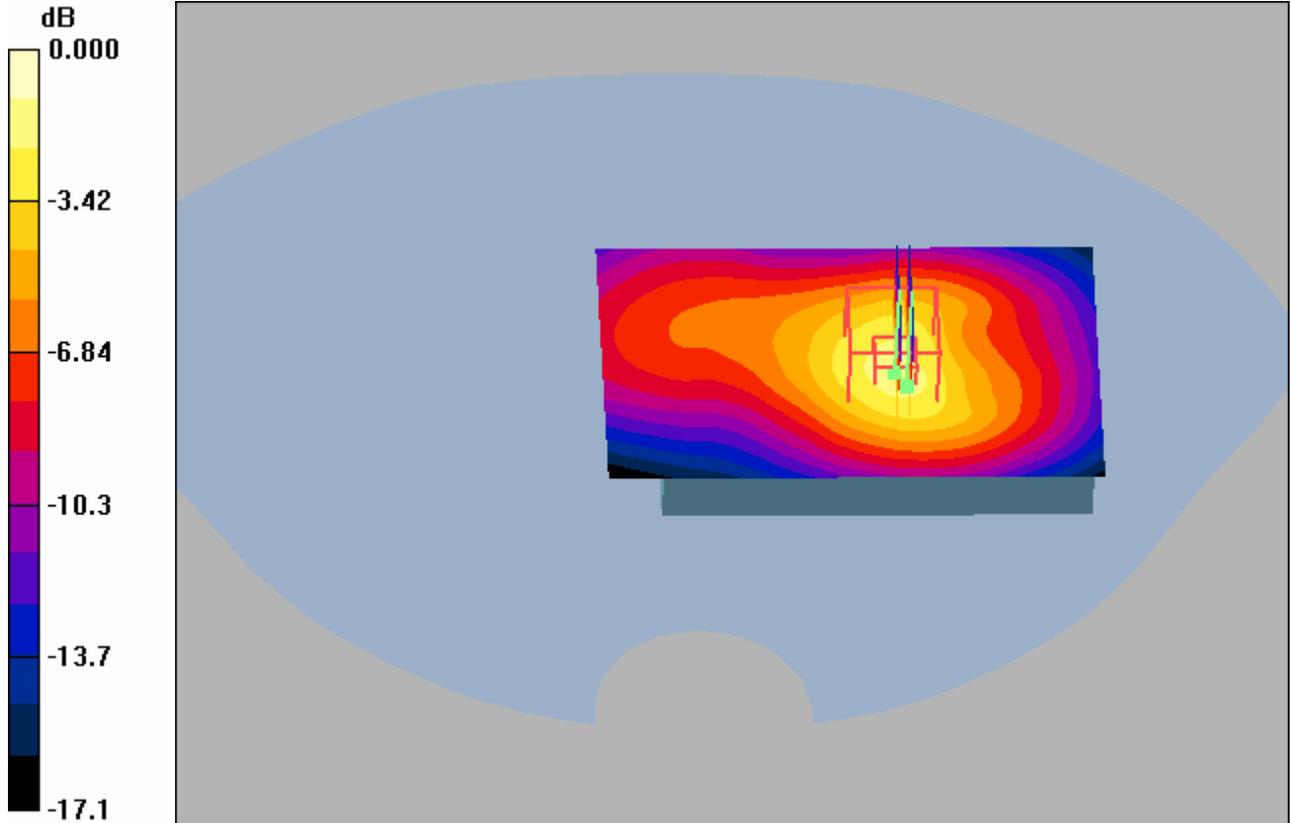
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.96 V/m; Power Drift = 0.009 dB

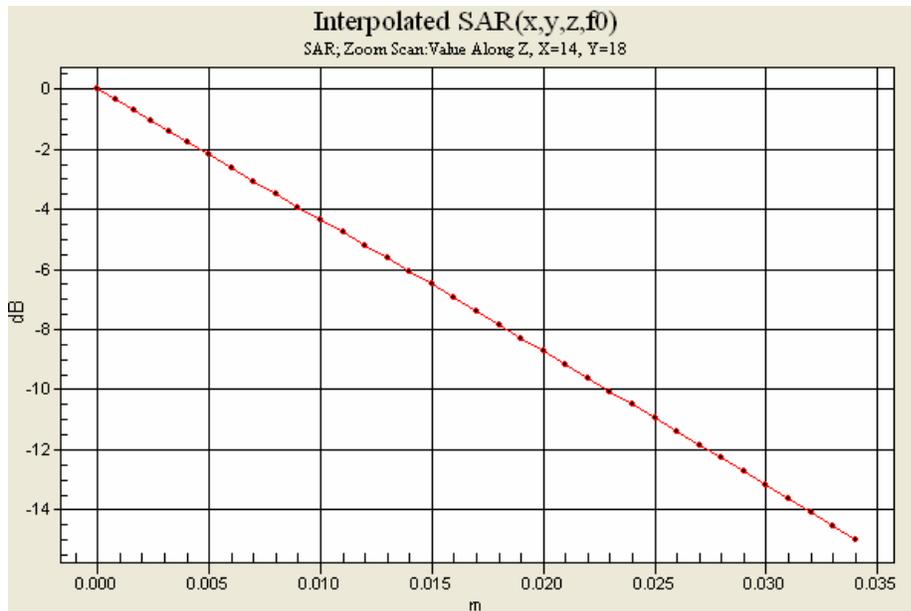
Maximum value of SAR (interpolated) = 0.913 mW/g



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0 dB = 0.913mW/g





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Appendix 4

Probe Calibration Certificates

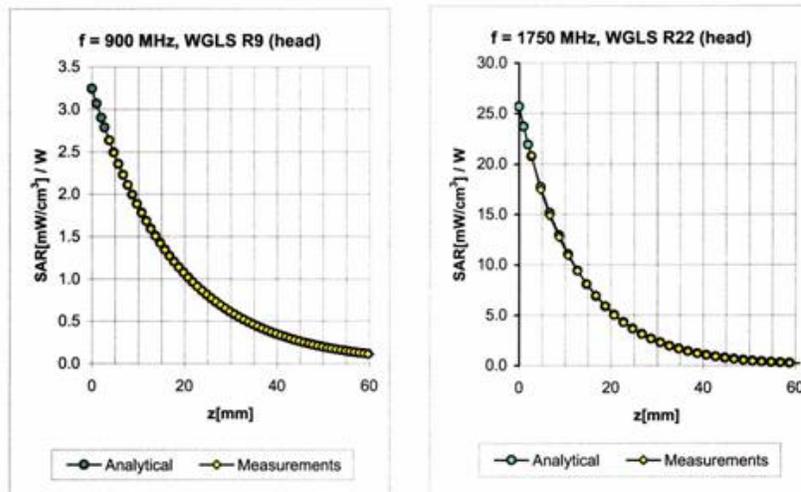


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ET3DV6 SN:1538

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.



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 001 W760i 02	
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ET3DV6 SN:1538

May 23, 2007

DASY - Parameters of Probe: ET3DV6 SN:1538

Sensitivity in Free Space^A

Diode Compression^B

NormX	1.30 ± 10.1%	μV/(V/m) ²	DCP X	93 mV
NormY	1.27 ± 10.1%	μV/(V/m) ²	DCP Y	83 mV
NormZ	1.36 ± 10.1%	μV/(V/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.

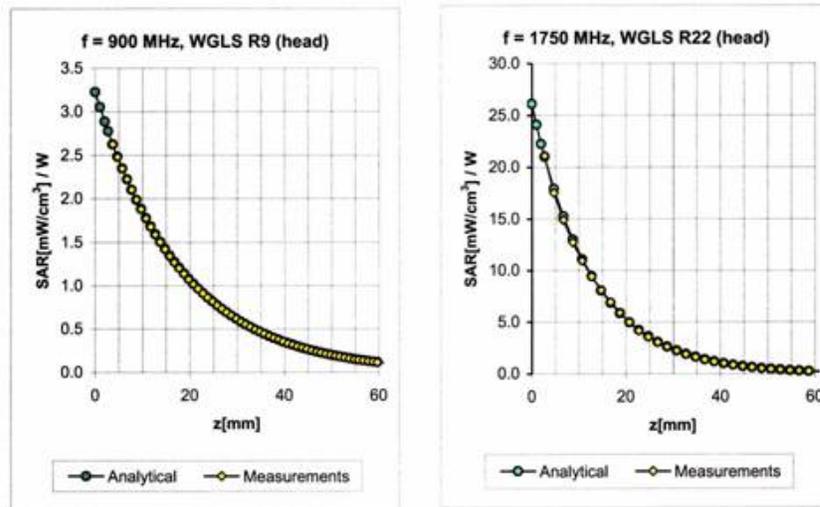


Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 001 W760i 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	14 April 2008	A

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.



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 001 W760i 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	14 April 2008	A

ET3DV6 SN:1586

May 23, 2007

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 _{tbl} [%]	Without Correction Algorithm	8.2	4.4
SAR _{tbl} [%]	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 _{tbl} [%]	Without Correction Algorithm	12.2	8.2
SAR _{tbl} [%]	With Correction Algorithm	0.8	0.1

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.

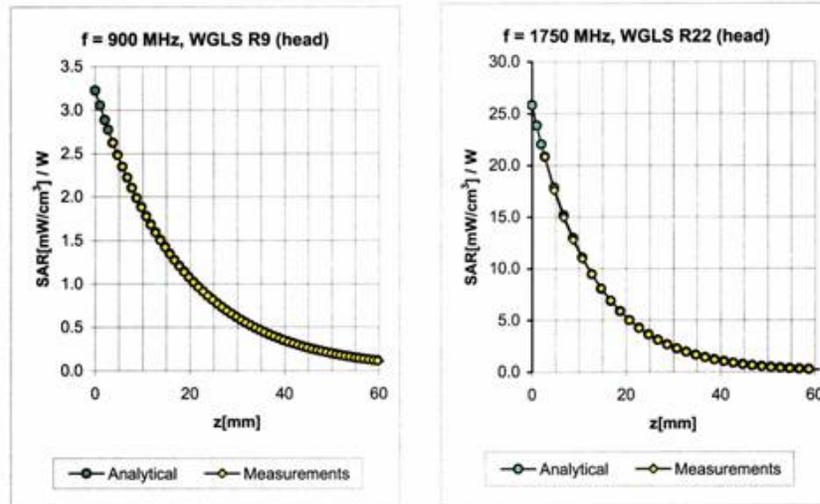


Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2008 001 W760i 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	14 April 2008	A

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

May 23, 2007

DASY - Parameters of Probe: ET3DV6 SN:1587

Sensitivity in Free Space^A

Diode Compression^B

NormX	2.09 ± 10.1%	μV/(V/m) ²	DCP X	92 mV
NormY	1.88 ± 10.1%	μV/(V/m) ²	DCP Y	100 mV
NormZ	1.79 ± 10.1%	μV/(V/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 _{tsl} [%]	Without Correction Algorithm	7.8	4.1
SAR _{tsl} [%]	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 _{tsl} [%]	Without Correction Algorithm	12.4	8.5
SAR _{tsl} [%]	With Correction Algorithm	0.5	0.1

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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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 constrains 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 constrains 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



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Front:



Back:



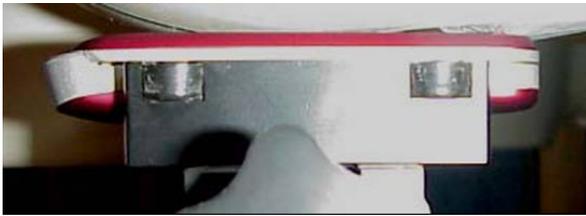
Side:



Position of device against head phantom using the “cheek” position



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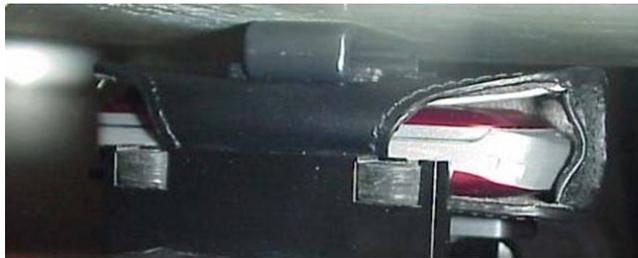


“cheek/touch” position



“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: