



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
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**Exhibit 11: SAR Test Report of Portable Cellular Phone
FCC ID: PY7A3252023 Model : Z750a**

Date of test: August 20 – September 05, 2007
Date of Report: September 19, 2007

Laboratory: SAR Testing Laboratory Sony Ericsson Mobile Communications, Inc. 7001
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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 PY7A3252023 model Z750a 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 PY7A3252023 model Z750a. 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	PIFA	
Location	Hinge Section of the Handset	
Dimensions	Width	40.0 mm
	Length	13.5 mm
	Height	6 mm

2.2 Device description

FCC ID Number / Device Model	PY7A3252023 / Z750a	
Hardware Revision #	FP2	
Software Revision #	R1BA016	
Mode(s) of Operation Transmitting Frequency Range	Serial number of Device Tested	
	GSM/GPRS/EDGE 824-849 MHz	BD30949DGF
	GSM/GPRS/EDGE 1850-1910 MHz	BD30949CZQ
	UMTS/HSDPA Band V (824-849 MHz)	BD30949DGF
	UMTS/HSDPA Band II (1850-1910 MHz)	BD30949DRR
Production Unit or Identical Prototype (47 CFR §2.908)	Identical Prototype	
Device Category	Portable	
RF Exposure Limits	General Population / Uncontrolled	

GSM	850 MHz		1900 MHz	
	Target Value and Factory Tolerance Window for Maximum Output Power Setting Calibration Frequency (f_{low}, f_{mid}, f_{high}) Duty Cycle	f_{low}	32.0 dBm +0.3/-0.75 dB	
f_{mid}		32.0 dBm +0.3/-0.75 dB		29.5 dBm +0.5/-1.0 dB
f_{high}		32.0 dBm +0.3/-0.75 dB		29.5 dBm +0.5/-1.0 dB
$f_{low}, f_{mid}, f_{high}$			$f_{low}, f_{mid}, f_{high}$	
	1/8			1/8



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Device description (continued)

		850 MHz		1900 MHz
GPRS – Multislot Class 10	Target Value and Factory Tolerance Window for Maximum Output Power Setting	f_{low}	28.7 dBm +0.4/-0.4 dB	Same as GSM 1:8
		f_{mid}	28.7 dBm +0.4/-0.4 dB	Same as GSM 1:8
		f_{high}	28.7 dBm +0.4/-0.4 dB	Same as GSM 1:8
	Calibration Frequency ($f_{low}, f_{mid}, f_{high}$) Duty Cycle	$f_{low}, f_{mid}, f_{high}$		$f_{low}, f_{mid}, f_{high}$
			1/4	1/4
EGPRS – Multislot Class 10	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 ($f_{low}, f_{mid}, f_{high}$) Duty Cycle	$f_{low}, f_{mid}, f_{high}$		$f_{low}, f_{mid}, f_{high}$
			1/4	1/4
W-CDMA (Circuit Switched, UMTS Mode)	Target Value and Factory Tolerance Window for Maximum Output Power Setting		850 MHz Band V	1900 MHz Band II
		f_{low}	22.8 dBm + 0.5/- 0.5 dB	22.5 dBm + 0.5/- 0.5 dB
		f_{mid}	22.8 dBm + 0.5/- 0.5 dB	22.5 dBm + 0.5/- 0.5 dB
	Calibration Frequency ($f_{low}, f_{mid}, f_{high}$) Duty Cycle	f_{high}	22.8 dBm + 0.5/- 0.5 dB	22.5 dBm + 0.5/- 0.5 dB
		$f_{low}, f_{mid}, f_{high}$		$f_{low}, f_{mid}, f_{high}$
		1/1	1/1	



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Device description (continued)

W-CDMA (HSDPA Mode) FCC Defined Settings Target Value and Factory Tolerance Window for Maximum Output Power Setting		850 MHz Band V	1900 MHz Band II
	f_{low}	22.8 dBm + 0.5/- 0.5 dB	22.5 dBm + 0.5/- 0.5 dB
	f_{mid}	22.8 dBm + 0.5/- 0.5 dB	22.5 dBm + 0.5/- 0.5 dB
	f_{high}	22.8 dBm + 0.5/- 0.5 dB	22.5 dBm + 0.5/- 0.5 dB
Duty Cycle	1/1		1/1
Relevant CMU Settings (β_c, β_d, etc.) for HSDPA operation:	RMC	12.2	
	β_c	9	
	β_d	15	
	ΔACK	5	
	$\Delta NACK$	5	
	ΔCQI	2	



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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 ±9.93% (K=1) with an expanded uncertainty of ±19.87% (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-2007
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, 2008
Power Meter 437B	3125U16382	December 18, 2007
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. 11, 2007
Digital Thermometer 61220-601 And Probe (61220-604)	350078	November 11, 2007
Digital Hygrometer/ Thermometer	21242911	December 7, 2007
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]. During the tests, the ambient temperature of the laboratory was in the range 20.8-22.7 °C, the relative humidity was in the range 39.9 – 55.3 % 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	August 27, 2007	41.09	0.9065	21.4
		August 31, 2007	40.36	0.8982	21.4
		Recommended Limits	41.5	0.9	20-25
	Body	August 20, 2007	52.74	1.013	22.1
		August 21, 2007	52.51	1.008	22
		Recommended Limits	55.2	0.97	20-25
1900	Head	August 20, 2007	38.17	1.468	22
		August 21, 2007	38.04	1.461	21.5
		September 4, 2007	38.24	1.468	21.2
		September 5, 2007	38.29	1.471	21.3
		Recommended Limits	40	1.4	20-25
	Body	August 23, 2007	51.28	1.559	21.4
		August 24, 2007	51.2	1.556	21.4
		August 27, 2007	50.95	1.544	21.3
		August 28, 2007	50.79	1.542	21.3
		Recommended Limits	53.3	1.52	20-25

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

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



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5. System Accuracy Verification

A system accuracy verification of the DASY4 was performed using the measurement equipment listed in Section 3.1. The daily system accuracy verification occurs within the flat section of the SAM phantom.

A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR indicated on the dipole certification sheet. These tests were done at 835MHz/900MHz and/or 1800MHz/1900MHz. These frequencies are within 100MHz of the mid-band frequency of the test device, according to [1].

The test was conducted on the same days as the measurement of the DUT. The results from the system accuracy verification are displayed in the table below (SAR values are normalized to 1W forward power delivered to the dipole). During the tests, the ambient temperature of the laboratory was in the range 20.7-22.6 °C, the relative humidity was in the range 41.8– 54.1 % 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	Aug-27-07	9.21	5.98	41.09	0.91	21.4
		Aug-31-07	9.20	5.98	40.36	0.90	21.4
		Recommended Limits	9.50	6.20	41.50	0.90	20-25
	Body	Aug-20-07	9.94	6.52	52.74	1.01	22.1
		Aug-21-07	9.79	6.42	52.51	1.01	22
		Recommended Limits	9.90	6.46	55.20	0.97	20-25
1900	Head	Aug-20-07	39.10	20.56	38.17	1.47	22
		Aug-21-07	38.05	20.02	38.04	1.46	21.5
		Sep-04-07	38.18	20.14	38.24	1.47	21.2
		Sep-05-07	41.19	21.54	38.29	1.47	21.3
		Recommended Limits	39.7	20.5	40	1.4	20-25
	Body	Aug-23-07	40.00	21.40	51.28	1.56	21.4
		Aug-24-07	38.57	20.56	51.2	1.56	21.4
		Aug-27-07	39.24	20.92	50.95	1.54	21.3
		Aug-28-07	38.85	20.70	50.79	1.54	21.3
		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 0.00041 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.

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

The results (including relevant CMU modulation settings) are presented in the following table:

Table 6.0: Conducted Power Summary for UMTS - HSDPA Modes

Settings				Freq. (MHz):	Band 1			Band 2			Band 5		
	βC	βD	ΔHS		1922.4	1950	1977.6	1852.4	1880	1907.6	826.4	835	846.6
				max (dBm):	23.5	23.5	23.5	23.0	23.0	23.0	23.3	23.3	23.3
CS - RMC	8	15	-	measured (dBm)	23.4	23.4	23.3	22.8	22.9	22.9	23.3	23.2	23.2
CS - Voice	8	15	-	measured (dBm)	23.4	23.4	23.3	22.9	22.9	22.9	23.2	23.2	23.2
HSDPA - 1	2	15	8	measured (dBm)	23.2	23.3	23.2	22.7	22.7	22.7	23.1	23.1	23.1
HSDPA - 2	12	15	8	measured (dBm)	22.8	22.8	22.7	22.5	22.5	22.5	22.9	22.8	22.8
HSDPA - 3	15	8	8	measured (dBm)	22.1	22.0	22.0	21.8	21.9	21.9	22.3	22.2	22.2
HSDPA - 4	15	4	8	measured (dBm)	21.1	21.1	21.0	20.9	20.9	20.9	21.4	21.1	21.1

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.

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, βc =8, and βd =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.

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, βc =8, and βd =15

Also according to FCC guidance, in the configurations that yielded the highest values in UMTS circuit switched mode, measurements were repeated with the device in HSDPA with the following settings:

RMC=12.2, βc =9, βd =15, ΔACK =5, ΔNACK =5, and ΔCQI =2.



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Similar to head measurements, in all configurations, tests were conducted with Bluetooth functionality turned off. Then for each band and mode, using the configuration that yielded the highest SAR value, the measurements were repeated with Bluetooth enabled.

The Cellular Phone FCC ID PY7A3252023 has one battery option, BKB 193 203 (BST-33). The phone was placed in the SAR measurement system with a fully charged battery for each measurement.

6.1 Head Adjacent Test Results

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

During the tests, the ambient temperature of the laboratory was in the range 20.7-22.6 °C, the relative humidity was in the range 41.8– 54.1 % 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)	Left Head (Cheek / Touch Position)						
			GSM 1:8 Duty Cycle	Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		Ambient Temp (°C)
800 GSM	128 / 824	32.2	1.08	0.759	-0.04	1.11	0.78	21.3	21.4
	189 / 837	32.1	1.26	0.875	-0.04	1.29	0.90		
	251 / 849	32.2	1.22	0.852	-0.04	1.25	0.87		
1900 GSM	512 / 1850	30.0	0.458	0.26	-0.02	0.46	0.26	21.2	21.8
	660/1880	29.9	0.484	0.271	-0.09	0.48	0.27		
	810/1910	29.8	0.47	0.266	-0.02	0.47	0.27		
f(MHz)	Channel/ frequency	Conducted Output Power (dBm)	Left Head (15° Tilt Position)						
			GSM 1:8 Duty Cycle	Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		Ambient Temp (°C)
800 GSM	128 / 824	32.2	0.369	0.279	0.01	0.38	0.29	21	21.3
	189 / 837	32.1	0.397	0.298	0.06	0.41	0.30		
	251 / 849	32.2	0.382	0.286	-0.02	0.39	0.29		
1900 GSM	512 / 1850	30.0	0.148	0.0917	0.04	0.15	0.09	21.5	21.8
	660/1880	29.9	0.165	0.101	0.07	0.17	0.10		
	810/1910	29.8	0.168	0.103	-0.01	0.17	0.10		

Table 1: SAR measurement results for the portable cellular telephone FCC ID PY7A3252023 model Z750a at maximum output power with Standard Battery BST-33. Measured against the left head in GSM mode.



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f(MHz)	Channel/frequency	Conducted Output Power (dBm)	Right Head (Cheek / Touch Position)						
			Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		Ambient Temp (°C)	Simulate Temp (°C)
800 GSM	128 / 824	32.2	1.18	0.828	-0.13	1.21	0.85	21	21.3
	189 / 837	32.1	1.38	0.971	-0.08	1.41	0.99		
	251 / 849	32.2	1.34	0.942	-0.03	1.37	0.96		
Bluetooth On	189 / 837	32.1	1.39	0.97	-0.03	1.42	0.99	20.7	21.2
1900 GSM	512 / 1850	30.0	0.526	0.3	-0.09	0.53	0.30	22.2	22
	660/1880	29.9	0.588	0.33	-0.11	0.59	0.33		
	810/1910	29.8	0.587	0.327	-0.06	0.59	0.33		
Bluetooth On	660/1880	29.9	0.61	0.34	-0.11	0.61	0.34	22.2	22.0

f(MHz)	Channel/frequency	Conducted Output Power (dBm)	Right Head (15° Tilt Position)						
			Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		Ambient Temp (°C)	Simulate Temp (°C)
800 GSM	128 / 824	32.2	0.412	0.309	-0.03	0.42	0.32	20.7	21.2
	189 / 837	32.1	0.431	0.322	0.03	0.44	0.33		
	251 / 849	32.2	0.415	0.308	-0.04	0.42	0.32		
1900 GSM	512 / 1850	30.0	0.124	0.0794	0.02	0.12	0.08	21.3	21.9
	660/1880	29.9	0.134	0.0847	0.03	0.13	0.08		
	810/1910	29.8	0.141	0.0887	0.02	0.14	0.09		

Table 2: SAR measurement results for the portable cellular telephone FCC ID PY7A3252023 model Z750a at maximum output power with Standard Battery BST-33. Measured against the right head in GSM mode.



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f(MHz)	Channel/frequency	Conducted Output Power (dBm)	Left Head Position (Cheek / Touch Position)					Ambient Temp (°C)	Simulate Temp (°C)
			UMTS Duty Cycle	Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		
Band V	4133/826.6	23.3	1.07	0.753	-0.18	1.07	0.75	21.9	21.5
	4175/835	23.2	1.14	0.797	-0.14	1.14	0.80		
	4232/846.4	23.2	1.25	0.873	-0.17	1.25	0.87		
Band II	9263/1852.6	22.9	0.844	0.47	-0.15	0.86	0.48	21.2	21.2
	9400/1880	22.9	0.874	0.482	-0.11	0.89	0.49		
	9537/1907.4	22.9	0.887	0.487	-0.15	0.91	0.50		

f(MHz)	Channel/frequency	Conducted Output Power (dBm)	Left Head Position (15° Tilt Position)					Ambient Temp (°C)	Simulate Temp (°C)
			UMTS Duty Cycle	Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		
Band V	4133/826.6	23.3	0.405	0.306	0.03	0.41	0.31	22	21.6
	4175/835	23.2	0.417	0.313	-0.07	0.42	0.31		
	4232/846.4	23.2	0.457	0.342	-0.03	0.46	0.34		
Band II	9263/1852.6	22.9	0.266	0.165	-0.07	0.27	0.17	21.3	21.2
	9400/1880	22.9	0.291	0.179	0.00	0.30	0.18		
	9537/1907.4	22.9	0.326	0.199	-0.01	0.33	0.20		

Table 3: UMTS SAR measurement results for the portable cellular telephone FCC ID PY7A3252023 model Z750a at maximum output power with Standard Battery BST-33. Measured against the left head in UMTS mode.



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	B	

f(MHz)	Channel/ frequency	Conducted Output Power (dBm)	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	23.3	1.08	0.766	-0.04	1.08	0.77	21.6	21.4
	4175/835	23.2	1.17	0.825	0.03	1.17	0.83		
	4232/846.4	23.2	1.28	0.902	0.01	1.28	0.90		
Bluetooth On	4232/846.4	23.2	1.24	0.882	0.08	1.24	0.88		
Band II	9263/1852.6	22.9	1.07	0.609	-0.10	1.09	0.62	21.1	21.2
	9400/1880	22.9	1.13	0.642	-0.10	1.16	0.66		
	9537/1907.4	22.9	1.11	0.623	-0.11	1.14	0.64		
Bluetooth On	9400/1880	22.9	1.17	0.660	-0.09	1.20	0.68		

f(MHz)	Channel/ frequency	Conducted Output Power (dBm)	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	23.3	0.412	0.31	0.00	0.41	0.31	21.9	21.5
	4175/835	23.2	0.428	0.323	-0.01	0.43	0.32		
	4232/846.4	23.2	0.469	0.353	0.01	0.47	0.35		
Band II	9263/1852.6	22.9	0.235	0.151	0.04	0.24	0.15	21.1	21.2
	9400/1880	22.9	0.242	0.154	0.03	0.25	0.16		
	9537/1907.4	22.9	0.266	0.166	0.01	0.27	0.17		

Table 4: UMTS SAR measurement results for the portable cellular telephone FCC ID PY7A3252023 model Z750a at maximum output power with Standard Battery BST-33. Measured against the right head in UMTS mode.



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	B	

6.2 Body-Worn Test Results

The SAR results shown in Tables 5 through 8 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. During the tests, the ambient temperature of the laboratory was in the range 20.7-22.6 °C, the relative humidity was in the range 41.8– 54.1 % 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
- ICE26 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 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	B	

f(MHz)	Operating Condition	Channel/frequency	Conducted Output Power (dBm)	Body Worn					Ambient Temp (°C)	Simulate Temp (°C)
				15mm SPACER						
				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	29.0	0.90	0.64	-0.03	0.93	0.65	22.2	22
		189 / 837	29.0	1.19	0.84	0.07	1.22	0.85		
		251 / 849	29.0	1.30	0.91	0.01	1.33	0.93		
	Bluetooth On	251 / 849	29.0	1.28	0.901	-0.07	1.31	0.92		
	1:8 Duty Cycle	251 / 849	32.2	1.06	0.748	-0.01	1.08	0.77		
1900 GSM	2:8 Duty Cycle	512 / 1850	30.0	0.74	0.43	-0.08	0.74	0.43	21.3	21.4
		660/1880	29.9	0.82	0.47	-0.02	0.82	0.47		
		810/1910	29.8	0.75	0.43	-0.17	0.75	0.43		
	Bluetooth On	660/1880	29.9	0.796	0.455	-0.01	0.80	0.46		
	1:8 Duty Cycle	660/1880	29.9	0.404	0.240	-0.02	0.40	0.24		
Front of phone facing body										
800 GSM	2:8 Duty Cycle	128 / 824	29.0	0.24	0.18	0.00	0.25	0.18	22.2	22
		189 / 837	29.0	0.38	0.28	-0.01	0.39	0.28		
		251 / 849	29.0	0.45	0.33	0.00	0.46	0.33		
1900 GSM	2:8 Duty Cycle	512 / 1850	30.0	0.23	0.15	-0.04	0.23	0.15	21.8	21.5
		660/1880	29.9	0.26	0.16	0.01	0.26	0.16		
		810/1910	29.8	0.23	0.14	0.00	0.23	0.14		

Table 5: SAR measurement results for the portable cellular telephone FCC ID PY7A3252023 model Z750a at maximum output power with Standard Battery BST-33. Measured with GSM/EGPRS Mode.



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	B	

f(MHz)	Operating Condition	Channel/frequency	Conducted Output Power (dBm)	Body Worn						
				Carry Accessory: ICE26						
				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	29.0	1.17	0.831	-0.02	1.20	0.85	22.50	22.10
		189 / 837	29.0	1.22	0.861	0.01	1.25	0.88		
		251 / 849	29.0	1.09	0.77	-0.05	1.12	0.79		
1900 GSM	2:8 Duty Cycle	512 / 1850	30.0	0.729	0.433	-0.02	0.73	0.43	21.30	21.40
		660/1880	29.9	0.707	0.416	0.01	0.71	0.42		
		810/1910	29.8	0.567	0.335	-0.09	0.57	0.34		
Front of phone facing body										
800 GSM	2:8 Duty Cycle	128 / 824	29.0	0.329	0.242	-0.08	0.34	0.25	22.50	22.10
		189 / 837	29.0	0.474	0.346	0.04	0.49	0.35		
		251 / 849	29.0	0.459	0.334	-0.06	0.47	0.34		
1900 GSM	2:8 Duty Cycle	512 / 1850	30.0	0.266	0.173	-0.05	0.27	0.17	21.50	21.50
		660/1880	29.9	0.248	0.161	0.00	0.25	0.16		
		810/1910	29.8	0.187	0.119	-0.04	0.19	0.12		

Table 6: SAR measurement results for the portable cellular telephone FCC ID PY7A3252023 model Z750a at maximum output power with Standard Battery BST-33. Measured with GSM/EGPRS Mode.



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	B	

f(MHz)	Operating Condition	Channel/frequency	Conducted Output Power (dBm)	Body Worn						
				Carry Accessory: 15mm SPACER						
				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	23.3	0.862	0.606	-0.17	0.86	0.61	22.6	22.1
		4175/835	23.2	0.96	0.674	-0.02	0.96	0.67		
		4232/846.4	23.2	1.02	0.714	-0.02	1.02	0.71		
Band II		9263/1852.6	22.9	0.697	0.403	-0.01	0.71	0.41	21.4	21.3
		9400/1880	22.9	0.678	0.388	-0.04	0.69	0.40		
		9537/1907.4	22.9	0.679	0.384	-0.06	0.69	0.39		
	Bluetooth On	9263/1852.6	22.9	0.704	0.402	-0.02	0.72	0.41		
	HSDPA Mode	9263/1852.6	22.9	0.607	0.347	0.05	0.62	0.36		
Front of phone facing body										
Band V		4133/826.6	23.3	0.238	0.174	-0.06	0.24	0.17	22.6	22.1
		4175/835	23.2	0.278	0.204	-0.01	0.28	0.20		
		4232/846.4	23.2	0.304	0.222	-0.01	0.30	0.22		
Band II		9263/1852.6	22.9	0.214	0.135	-0.01	0.22	0.14	21.4	21.3
		9400/1880	22.9	0.221	0.139	-0.01	0.23	0.14		
		9537/1907.4	22.9	0.196	0.123	-0.05	0.20	0.13		

Table 7: UMTS SAR measurement results for the portable cellular telephone FCC ID PY7A3252023 model Z750a at maximum output power with Standard Battery BST-33. 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 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked		B

f(MHz)	Operating Condition	Channel/frequency	Conducted Output Power (dBm)	Body Worn					Ambient Temp (°C)	Simulate Temp (°C)
				Carry Accessory: ICE26						
				Measured (W/kg) 1g / 10g	Drift (dB)	Extrapolated (W/kg) 1g / 10g				
Back of phone facing body										
Band V		4133/826.6	23.3	0.983	0.697	-0.09	0.98	0.70	22.6	22.2
		4175/835	23.2	1.17	0.823	0.00	1.17	0.82		
		4232/846.4	23.2	1.11	0.783	-0.03	1.11	0.78		
	Bluetooth On	4175/835	23.2	1.14	0.807	-0.02	1.14	0.81		
	HSDPA Mode	4175/835	23.2	0.978	0.692	-0.01	0.98	0.69		
Band II		9263/1852.6	22.9	0.691	0.404	-0.04	0.71	0.41	20.8	21.2
		9400/1880	22.9	0.61	0.358	-0.03	0.62	0.37		
		9537/1907.4	22.9	0.579	0.336	-0.04	0.59	0.34		
Front of phone facing body										
Band V		4133/826.6	23.3	0.299	0.219	-0.05	0.30	0.22	22.6	22.2
		4175/835	23.2	0.382	0.279	-0.01	0.38	0.28		
		4232/846.4	23.2	0.375	0.273	-0.08	0.38	0.27		
Band II		9263/1852.6	22.9	0.227	0.147	-0.04	0.23	0.15	20.8	21.2
		9400/1880	22.9	0.227	0.146	-0.04	0.23	0.15		
		9537/1907.4	22.9	0.2	0.128	-0.09	0.20	0.13		

Table 8: UMTS SAR measurement results for the portable cellular telephone FCC ID PY7A3252023 model Z750a at maximum output power with Standard Battery BST-33. Measured with UMTS/HSDPA Modes.



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked		B

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 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	B	

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 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked		B

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

Validation_835Head_438_1251_27Aug07_T01

File Name: [Validation_835Head_438_1251_27Aug07_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: $f = 835 \text{ MHz}$; $\sigma = 0.907 \text{ mho/m}$; $\epsilon_r = 41.1$; $\rho = 1000 \text{ kg/m}^3$

Measurement Standard: DAS4 (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) = 0.974 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 = 33.3 V/m; Power Drift = 0.066 dB

Peak SAR (extrapolated) = 1.39 W/kg

SAR(1 g) = 0.916 mW/g; SAR(10 g) = 0.595 mW/g

Maximum value of SAR (measured) = 0.994 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 = 33.3 V/m; Power Drift = 0.066 dB

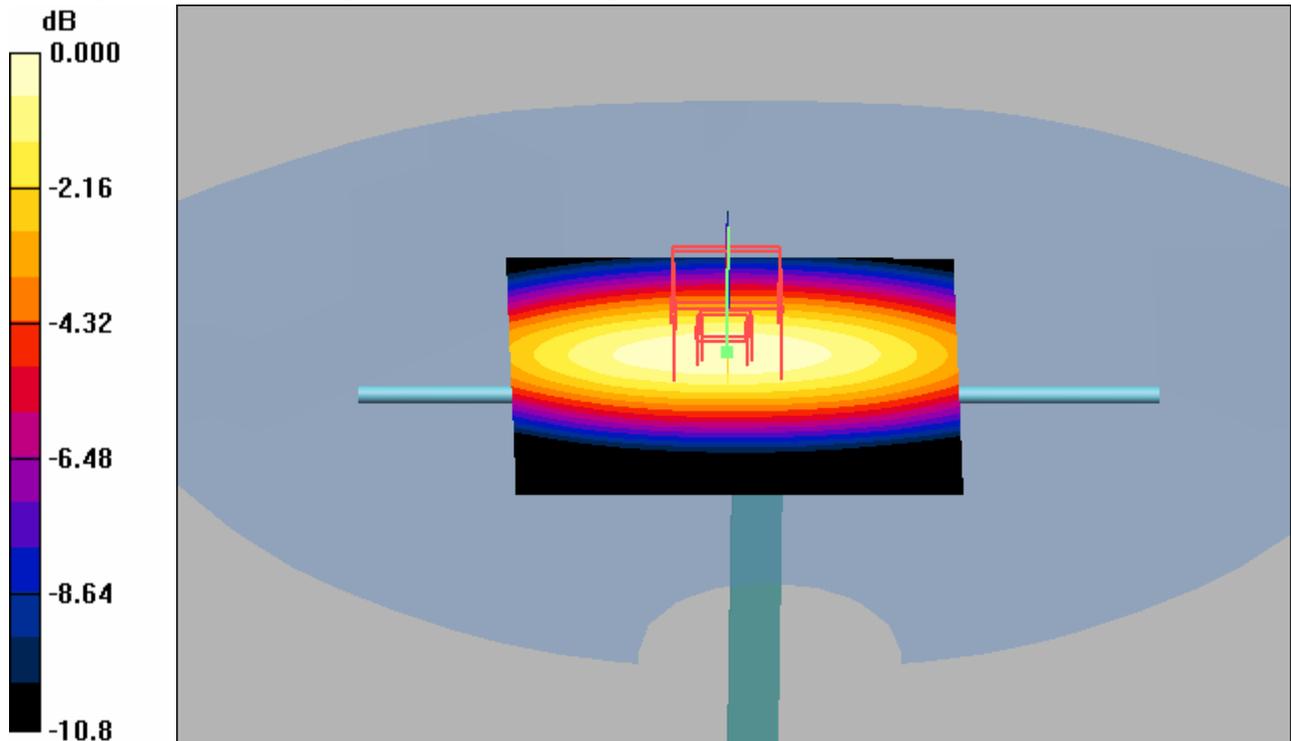
Peak SAR (extrapolated) = 1.38 W/kg

SAR(1 g) = 0.920 mW/g; SAR(10 g) = 0.597 mW/g

Maximum value of SAR (measured) = 0.991 mW/g

Procedure Notes: Pin: before 100.2 mW / after 99.2 mW

Humidity - 52 % Ambient Temp - 21.3 C Simulant Temp - 21.4 C



0 dB = 0.991mW/g



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked		B

835 MHz SAR Distribution of Validation Dipole Antenna

System Performance Check (Using head tissue).

Validation_835Head_438_1251_31Aug07_T01

File Name: [Validation_835Head_438_1251_31Aug07_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: $f = 835 \text{ MHz}$; $\sigma = 0.898 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

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) = 0.974 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 = 34.0 V/m; Power Drift = -0.048 dB

Peak SAR (extrapolated) = 1.38 W/kg

SAR(1 g) = 0.912 mW/g; SAR(10 g) = 0.593 mW/g

Maximum value of SAR (measured) = 0.985 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 = 34.0 V/m; Power Drift = -0.048 dB

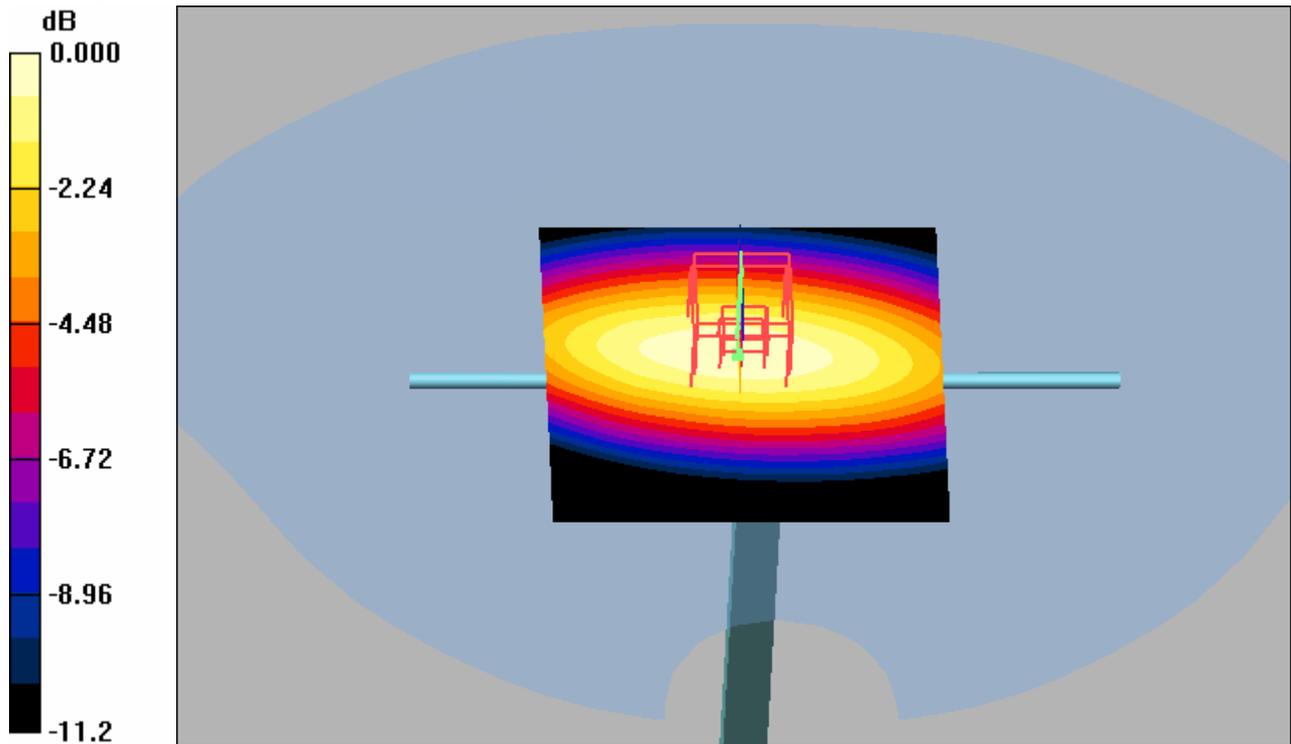
Peak SAR (extrapolated) = 1.40 W/kg

SAR(1 g) = 0.932 mW/g; SAR(10 g) = 0.606 mW/g

Maximum value of SAR (measured) = 1.00 mW/g

Procedure Notes: Pin: before 100.5 mW / after 99.9 mW

Humidity - 46.5 % Ambient Temp - 21.6 C Simulant Temp - 21.4 C



0 dB = 1.00mW/g



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked		B

835 MHz SAR Distribution of Validation Dipole Antenna

System Performance Check (Using body tissue).

Validation_835Body_438_1031_20Aug07_T01

File Name: [Validation_835Body_438_1031_20Aug07_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: $f = 835 \text{ MHz}$; $\sigma = 1.01 \text{ mho/m}$; $\epsilon_r = 52.7$; $\rho = 1000 \text{ kg/m}^3$

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) = 1.07 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 = 33.3 V/m; Power Drift = -0.001 dB

Peak SAR (extrapolated) = 1.46 W/kg

SAR(1 g) = 0.993 mW/g; SAR(10 g) = 0.650 mW/g

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

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

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

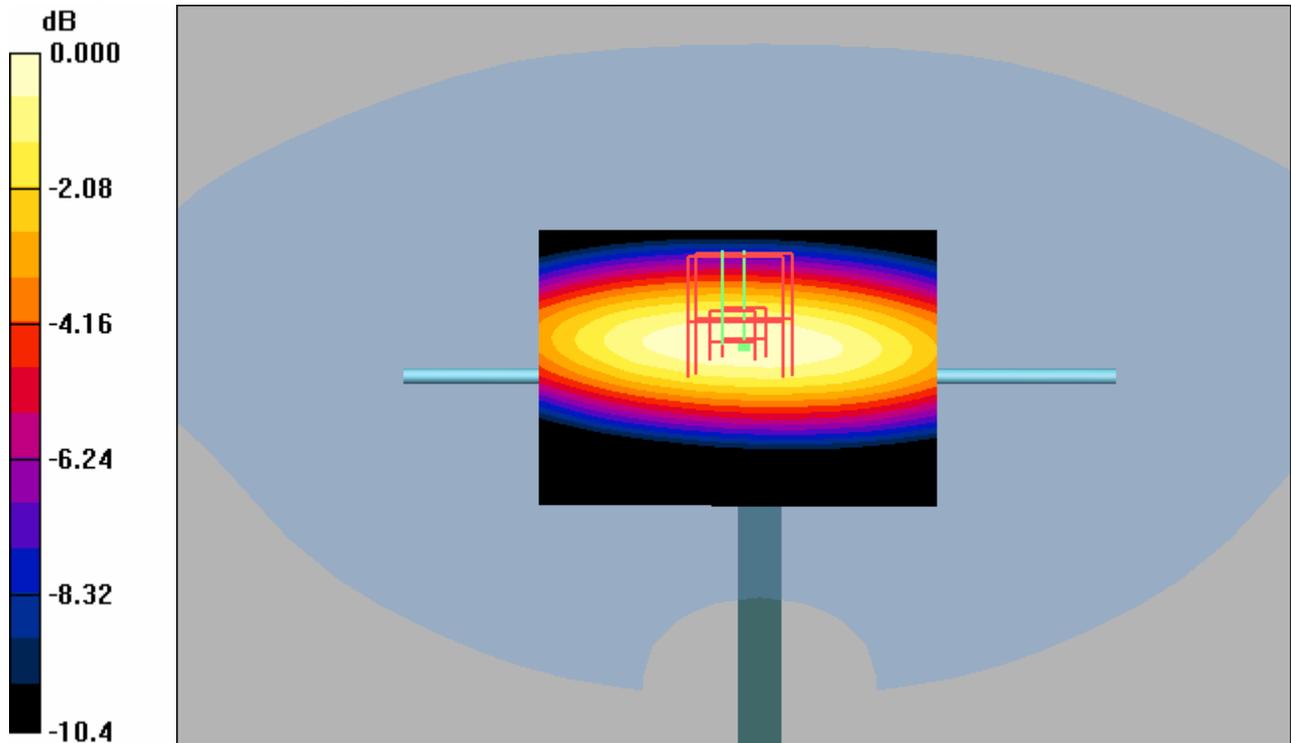
Reference Value = 33.3 V/m; Power Drift = -0.001 dB

Peak SAR (extrapolated) = 1.46 W/kg

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

Procedure Notes: Pin: before 100 mW / after 100.6 mW

Humidity - 44 % Ambient Temp - 22.6 C Simulant Temp - 22.1 C



0 dB = 1.08mW/g



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked		B

835 MHz SAR Distribution of Validation Dipole Antenna

System Performance Check (Using body tissue).

Validation_835Body_438_1031_21Aug07_T01

File Name: [Validation_835Body_438_1031_21Aug07_T01.da4](#)

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

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

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

Measurement Standard: DASy4 (High Precision Assessment)

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

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

Maximum value of SAR (interpolated) = 1.05 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 = 33.1 V/m; Power Drift = -0.023 dB

Peak SAR (extrapolated) = 1.42 W/kg

SAR(1 g) = 0.971 mW/g; SAR(10 g) = 0.637 mW/g

Maximum value of SAR (measured) = 1.05 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 = 33.1 V/m; Power Drift = -0.023 dB

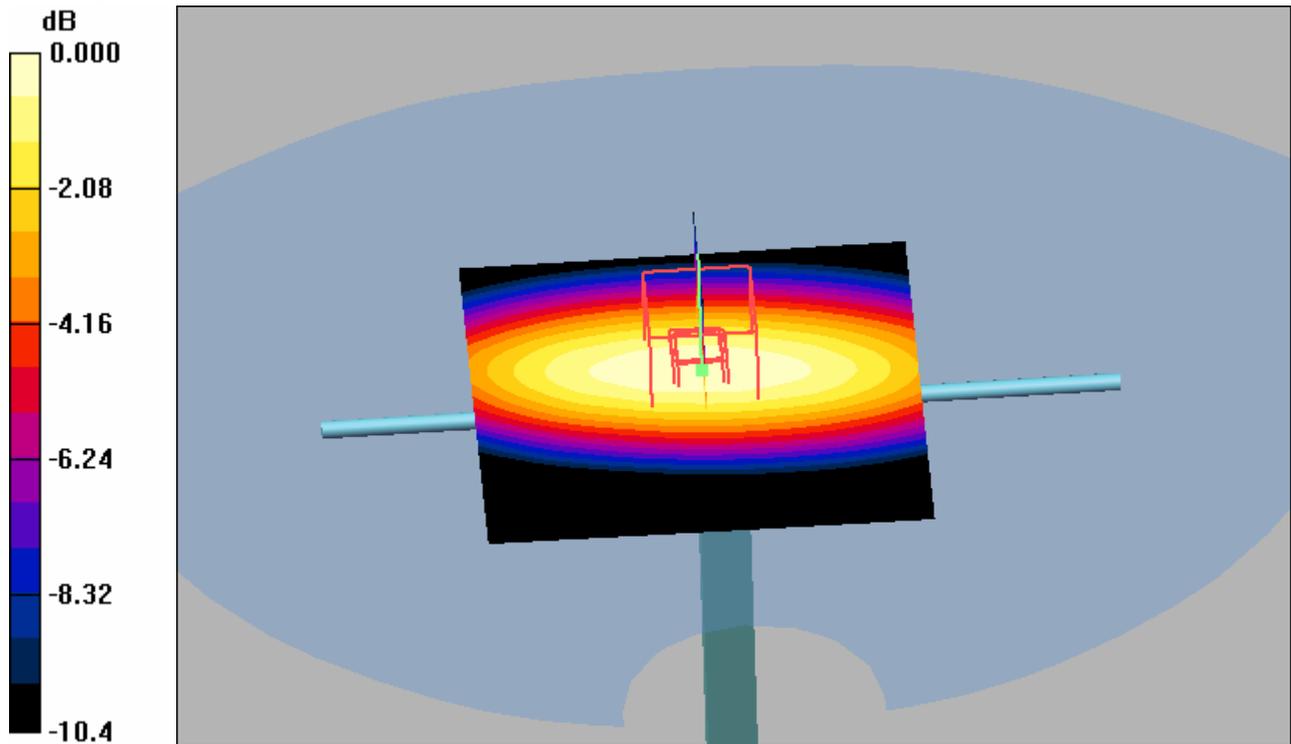
Peak SAR (extrapolated) = 1.43 W/kg

SAR(1 g) = 0.982 mW/g; SAR(10 g) = 0.643 mW/g

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

Procedure Notes: Pin: before 99.8 mW / after 99.6 mW

Humidity - 44.4 % Ambient Temp - 22.2 C Simulant Temp - 22 C



0 dB = 1.06mW/g



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked		B

1900 MHz SAR Distribution of Validation Dipole Antenna

System Performance Check (Using head tissue).

Validation_1900Head_536_1054_20Aug07_T01

File Name: [Validation_1900Head_536_1054_20Aug07_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: $f = 1900$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

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

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

Maximum value of SAR (interpolated) = 4.83 mW/g

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

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

Reference Value = 57.2 V/m; Power Drift = 0.057 dB

Peak SAR (extrapolated) = 6.90 W/kg

SAR(1 g) = 4.02 mW/g; SAR(10 g) = 2.11 mW/g

Maximum value of SAR (measured) = 4.54 mW/g

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

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

Reference Value = 57.2 V/m; Power Drift = 0.057 dB

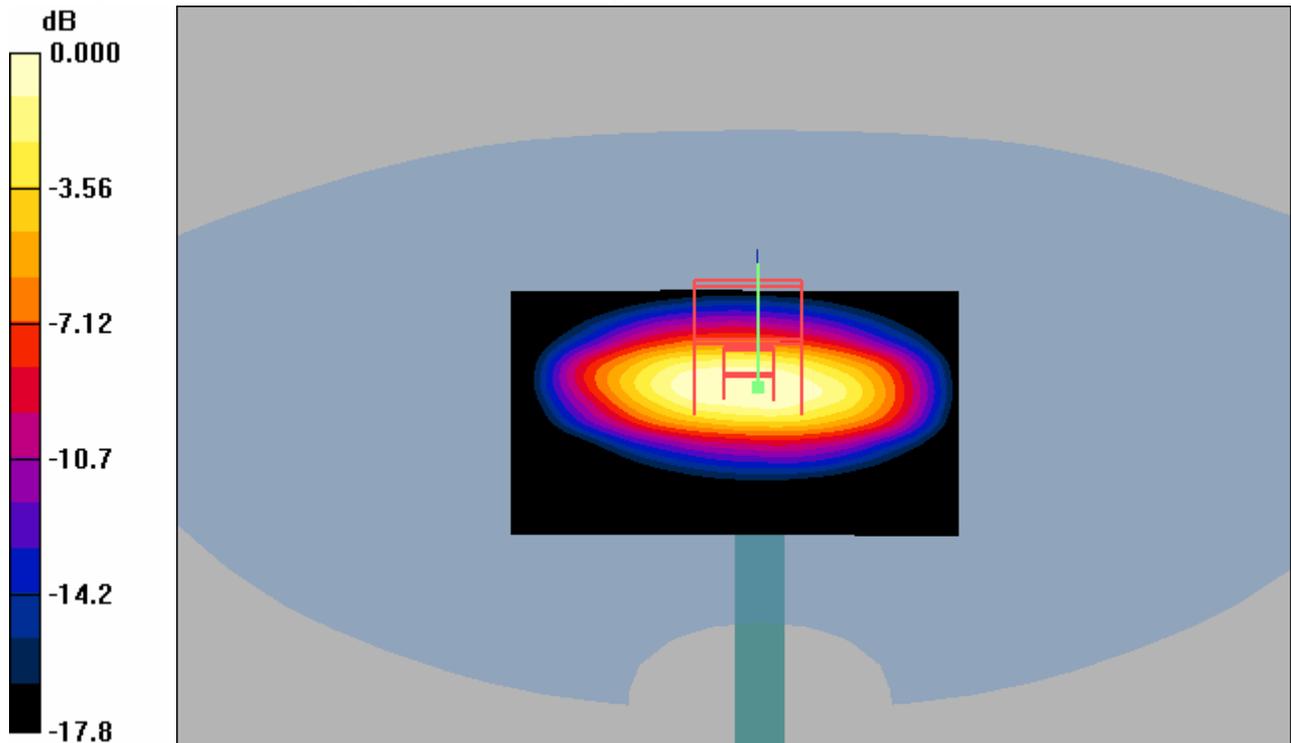
Peak SAR (extrapolated) = 6.65 W/kg

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

Maximum value of SAR (measured) = 4.37 mW/g

Procedure Notes: Pin: before 101.5 mW / after 100.8 mW

Humidity: 45.7 % Ambient Temp: 22.2 C Simulant Temp: 22 C



0 dB = 4.37mW/g



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked		B

1900 MHz SAR Distribution of Validation Dipole Antenna

System Performance Check (Using head tissue).

Validation_1900Head_536_1054_21Aug07_T01

File Name: [Validation_1900Head_536_1054_21Aug07_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: $f = 1900$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 38$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

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

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

Maximum value of SAR (interpolated) = 4.73 mW/g

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

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

Reference Value = 58.4 V/m; Power Drift = 0.022 dB

Peak SAR (extrapolated) = 6.58 W/kg

SAR(1 g) = 3.84 mW/g; SAR(10 g) = 2.02 mW/g

Maximum value of SAR (measured) = 4.32 mW/g

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

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

Reference Value = 58.4 V/m; Power Drift = 0.022 dB

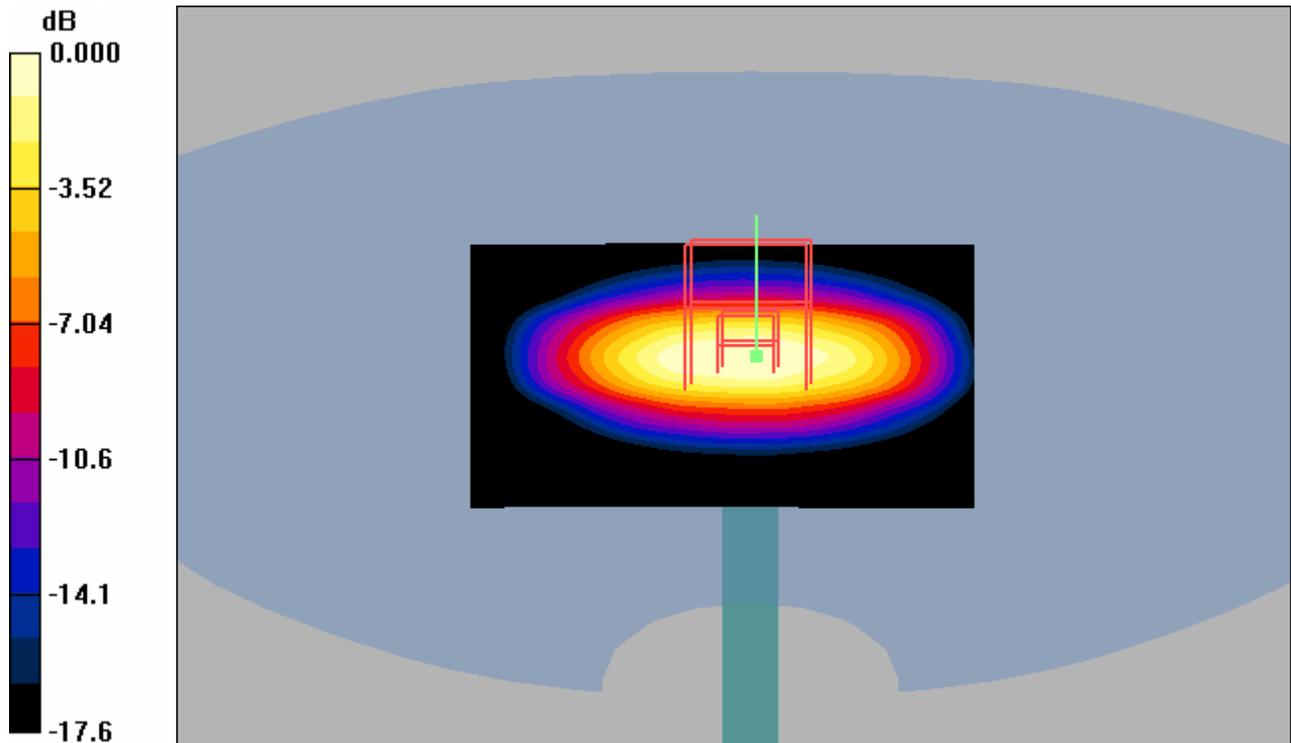
Peak SAR (extrapolated) = 6.48 W/kg

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

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

Procedure Notes: Pin: before 100.4 mW / after 100.4 mW

Hudmity: 52.8% Ambient Temp: 21.3 Simulant Temp: 21.5



0 dB = 4.28mW/g



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked		B

1900 MHz SAR Distribution of Validation Dipole Antenna

System Performance Check (Using head tissue).

Validation_1900Head_536_1054_04Sept07_T01

File Name: [Validation_1900Head_536_1054_04Sept07_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: $f = 1900$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³

Measurement Standard: DASy4 (High Precision Assessment)

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

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

Maximum value of SAR (interpolated) = 4.64 mW/g

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

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

Reference Value = 57.4 V/m; Power Drift = 0.001 dB

Peak SAR (extrapolated) = 6.42 W/kg

SAR(1 g) = 3.77 mW/g; SAR(10 g) = 1.99 mW/g

Maximum value of SAR (measured) = 4.25 mW/g

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

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

Reference Value = 57.4 V/m; Power Drift = 0.001 dB

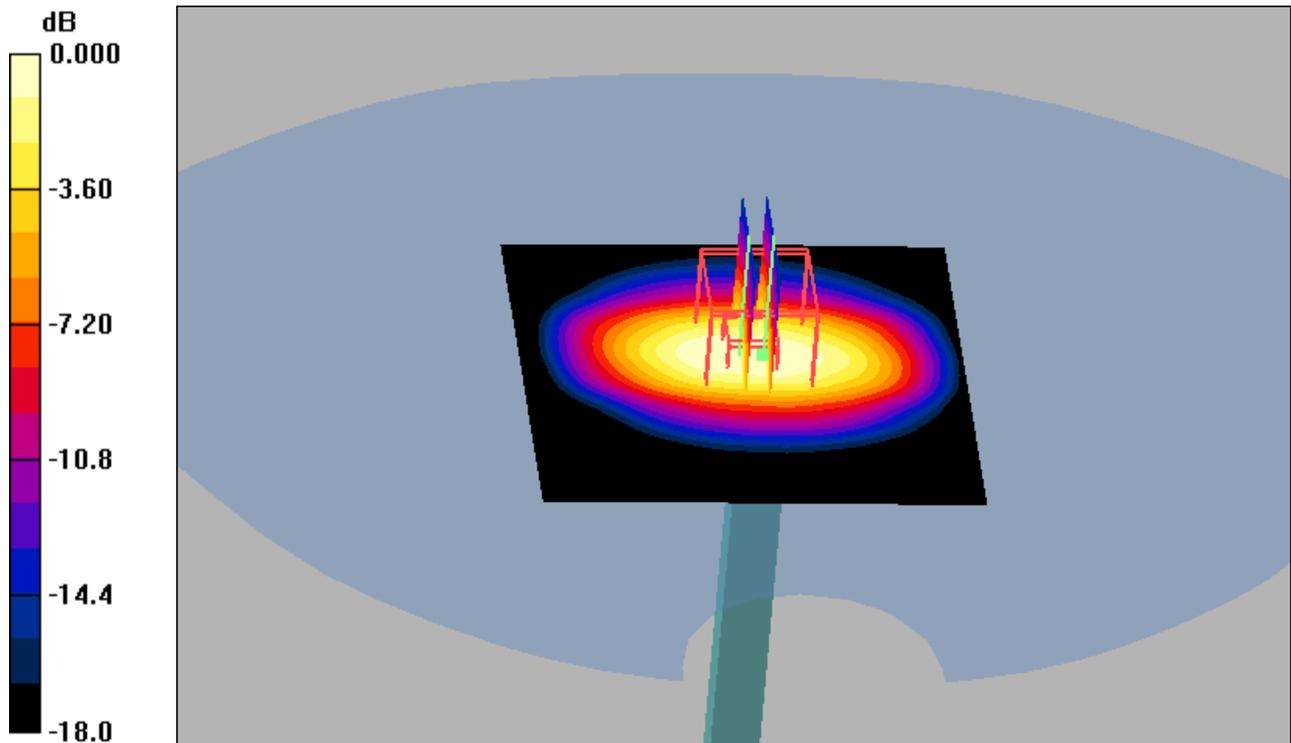
Peak SAR (extrapolated) = 6.57 W/kg

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

Maximum value of SAR (measured) = 4.26 mW/g

Procedure Notes: Pin: before 99.6 mW / after 100 mW

Humidity: 47.5 % Ambient Temp: 21.1 C Simulant Temp: 21.2 C



0 dB = 4.26mW/g



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked		B

1900 MHz SAR Distribution of Validation Dipole Antenna

System Performance Check (Using head tissue).

Validation_1900Head_536_1335_05Sept07_T01

File Name: [Validation_1900Head_536_1335_05Sept07_T01.da4](#)

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

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 38.3$; $\rho = 1000$ kg/m³

Measurement Standard: DASy4 (High Precision Assessment)

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

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

Maximum value of SAR (interpolated) = 5.30 mW/g

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

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

Reference Value = 60.8 V/m; Power Drift = -0.050 dB

Peak SAR (extrapolated) = 7.24 W/kg

SAR(1 g) = 4.15 mW/g; SAR(10 g) = 2.18 mW/g

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

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

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

Reference Value = 60.8 V/m; Power Drift = -0.050 dB

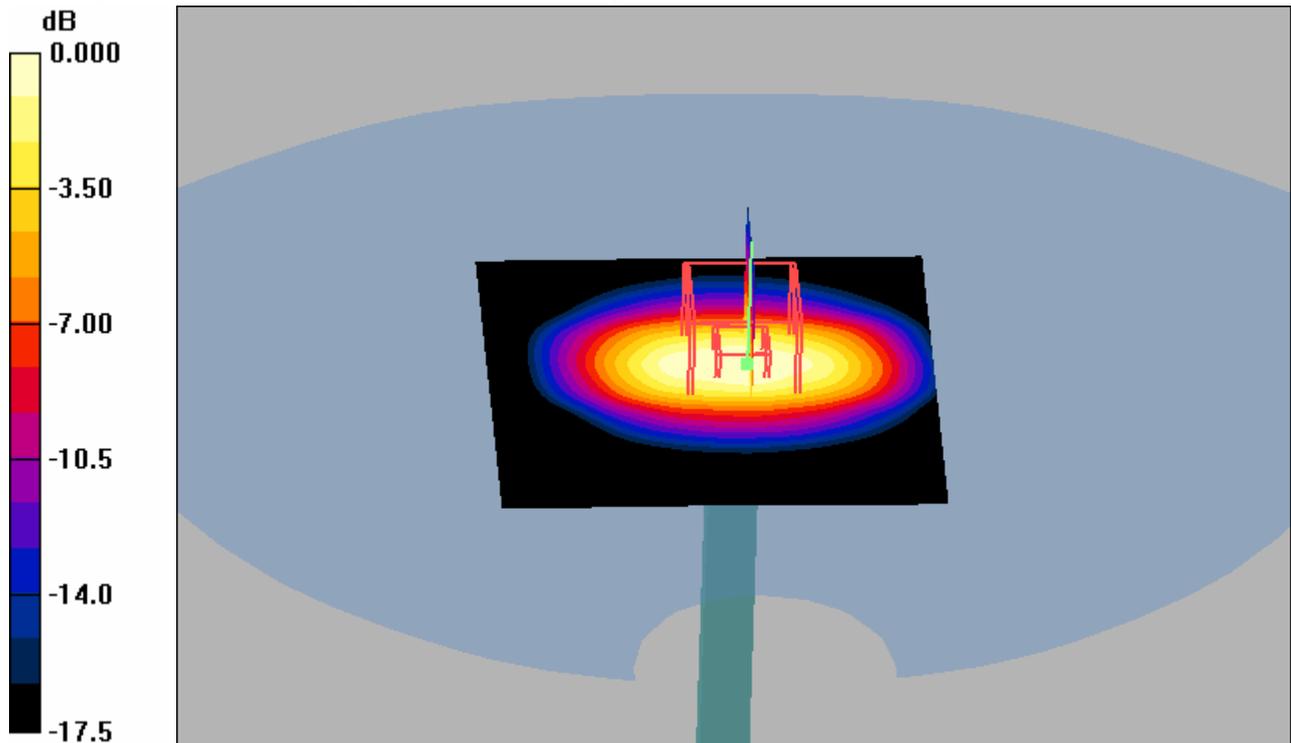
Peak SAR (extrapolated) = 7.23 W/kg

SAR(1 g) = 4.13 mW/g; SAR(10 g) = 2.15 mW/g

Maximum value of SAR (measured) = 4.71 mW/g

Procedure Notes: Pin: before 100.4 mW / after 100.6 mW

Humidity: 43.8 % Ambient Temp: 21.5 C Simulant Temp: 21.3 C



0 dB = 4.71mW/g



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked		B

1900 MHz SAR Distribution of Validation Dipole Antenna

System Performance Check (Using body tissue).

Validation_1900Body_536_1020_23Aug07_T01

File Name: [Validation_1900Body_536_1020_23Aug07_T01.da4](#)

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

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 51.3$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

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

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

Maximum value of SAR (interpolated) = 5.19 mW/g

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

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

Reference Value = 57.5 V/m; Power Drift = 0.009 dB

Peak SAR (extrapolated) = 6.75 W/kg

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

Maximum value of SAR (measured) = 4.50 mW/g

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

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

Reference Value = 57.5 V/m; Power Drift = 0.009 dB

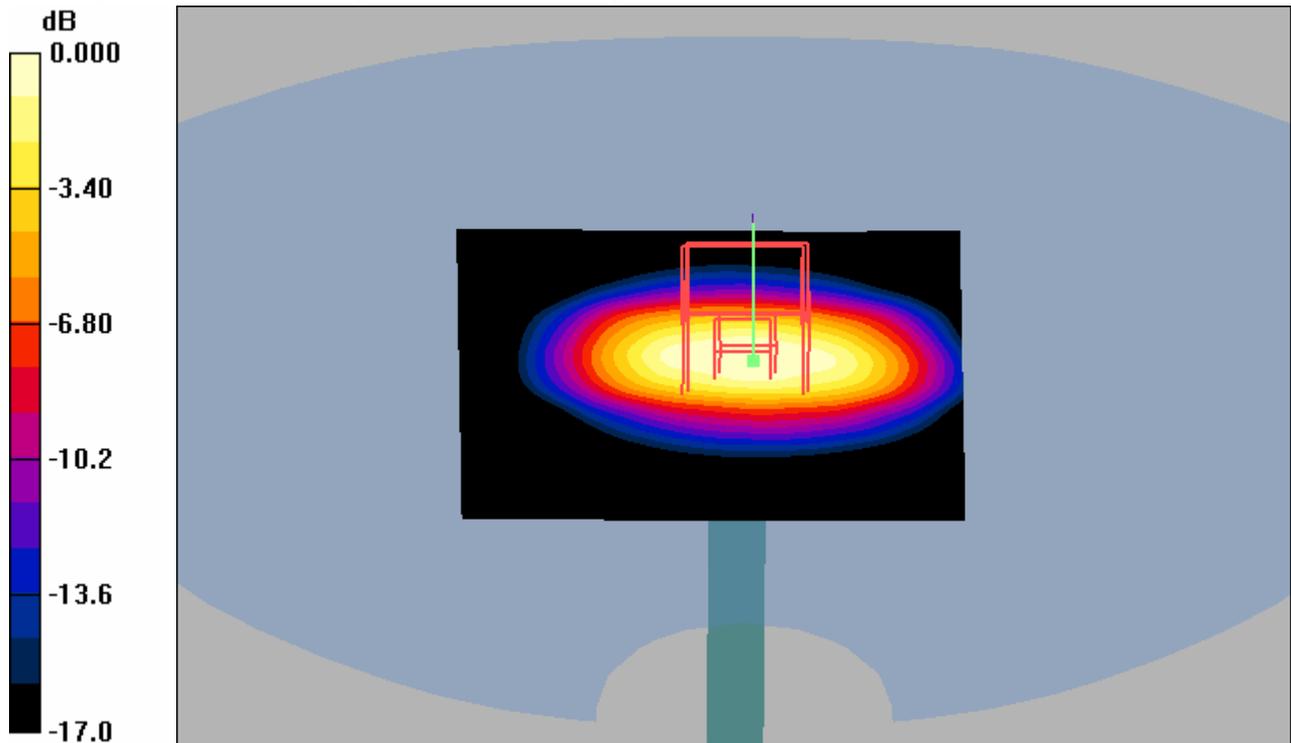
Peak SAR (extrapolated) = 6.79 W/kg

SAR(1 g) = 4.02 mW/g; SAR(10 g) = 2.16 mW/g

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

Procedure Notes: Pin: before 100.3 mW / after 100.2 mW

Humidity: 50.8 % Ambient Temp: 21.3 C Simulant Temp: 21.4 C



0 dB = 4.53mW/g



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked		B

1900 MHz SAR Distribution of Validation Dipole Antenna

System Performance Check (Using body tissue).

Validation_1900Body_536_1020_24Aug07_T01

File Name: [Validation_1900Body_536_1020_24Aug07_T01.da4](#)

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

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 51.2$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

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

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

Maximum value of SAR (interpolated) = 4.98 mW/g

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

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

Reference Value = 56.3 V/m; Power Drift = -0.012 dB

Peak SAR (extrapolated) = 6.47 W/kg

SAR(1 g) = 3.82 mW/g; SAR(10 g) = 2.04 mW/g

Maximum value of SAR (measured) = 4.29 mW/g

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

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

Reference Value = 56.3 V/m; Power Drift = -0.012 dB

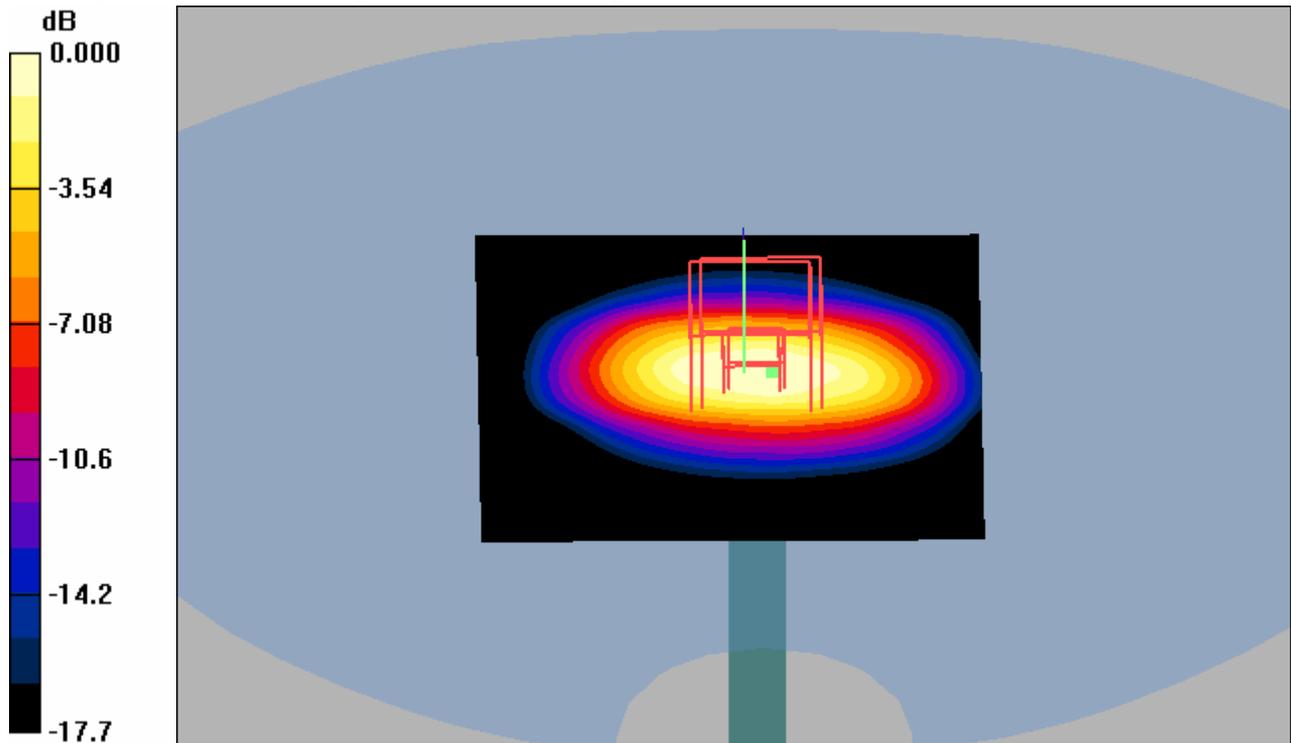
Peak SAR (extrapolated) = 6.62 W/kg

SAR(1 g) = 3.87 mW/g; SAR(10 g) = 2.06 mW/g

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

Procedure Notes: Pin: before 99.6 mW / after 99.8 mW

Humidity: 49.3 % Ambient Temp: 21.5 C Simulant Temp: 21.4 C



0 dB = 4.39mW/g



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked		B

1900 MHz SAR Distribution of Validation Dipole Antenna

System Performance Check (Using body tissue).

Validation_1900Body_536_1020_27Aug07_T01

File Name: [Validation_1900Body_536_1020_27Aug07_T01.da4](#)

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

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 50.9$; $\rho = 1000$ kg/m³

Measurement Standard: DASy4 (High Precision Assessment)

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

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

Maximum value of SAR (interpolated) = 5.15 mW/g

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

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

Reference Value = 55.5 V/m; Power Drift = -0.024 dB

Peak SAR (extrapolated) = 6.57 W/kg

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

Maximum value of SAR (measured) = 4.38 mW/g

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

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

Reference Value = 55.5 V/m; Power Drift = -0.024 dB

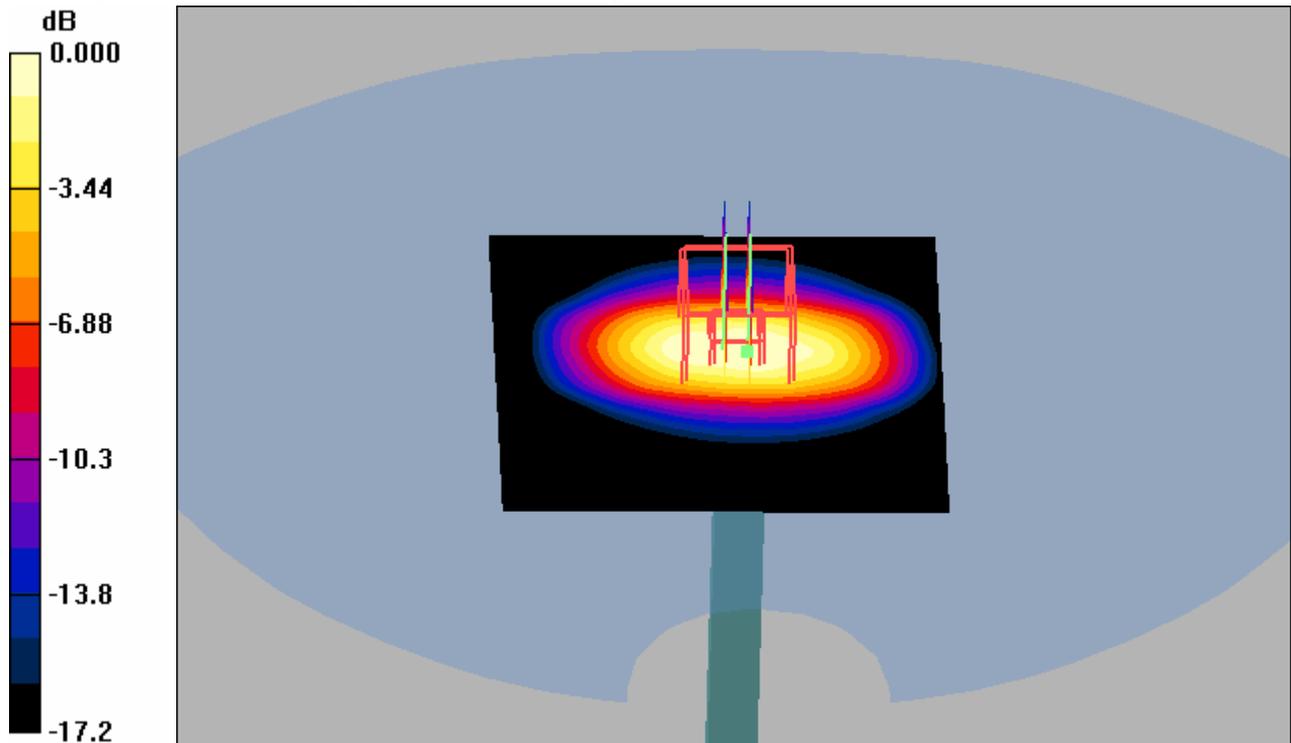
Peak SAR (extrapolated) = 6.66 W/kg

SAR(1 g) = 3.94 mW/g; SAR(10 g) = 2.1 mW/g

Maximum value of SAR (measured) = 4.45 mW/g

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

Humidity: 49.2 % Ambient Temp: 21.4 C Simulant Temp: 21.3 C



0 dB = 4.45mW/g



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked		B

1900 MHz SAR Distribution of Validation Dipole Antenna

System Performance Check (Using body tissue).

Validation_1900Body_536_1020_28Aug07_T01

File Name: [Validation_1900Body_536_1020_28Aug07_T01.da4](#)

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

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 50.8$; $\rho = 1000$ kg/m³

Measurement Standard: DASy4 (High Precision Assessment)

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

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

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

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

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

Reference Value = 56.7 V/m; Power Drift = -0.027 dB

Peak SAR (extrapolated) = 6.60 W/kg

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

Maximum value of SAR (measured) = 4.44 mW/g

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

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

Reference Value = 56.7 V/m; Power Drift = -0.027 dB

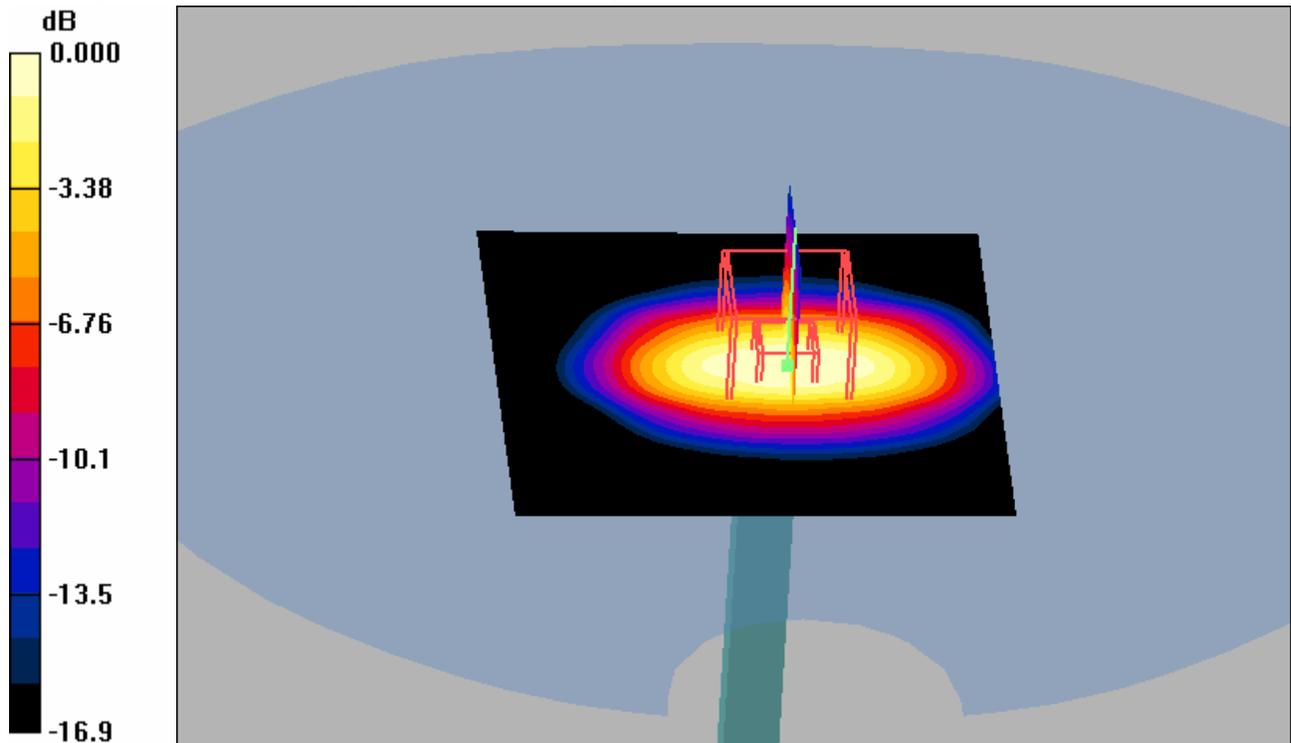
Peak SAR (extrapolated) = 6.51 W/kg

SAR(1 g) = 3.87 mW/g; SAR(10 g) = 2.06 mW/g

Maximum value of SAR (measured) = 4.37 mW/g

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

Humidity: 44.4 % Ambient Temp: 21.4 C Simulant Temp: 21.3 C



0 dB = 4.37mW/g



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	B	

Appendix 2

SAR distribution plots for Phantom Head Adjacent Use



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked		B

800 GSM Band: SAR Distribution and Extrapolation of Maximum SAR

Model: Z750a with Standard Battery: BST-33, Right Cheek Position.

Date/Time: 8/27/2007 10:57:14 AM

File Name: [27Aug07_Z750_GSM850_9DGF_RC01.da4](#)

DUT: Z750

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

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

Medium parameters used (interpolated): $f = 836$ MHz; $\sigma = 0.907$ mho/m; $\epsilon_r = 41.1$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery BST-33 Humidity - 52.4 % Ambient Temp - 21 C Simulant Temp - 21.3 C

DASY4 Configuration:

- Probe: ET3DV6 - SN1586; ConvF(6.63, 6.63, 6.63); Calibrated: 5/23/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn369; Calibrated: 5/29/2007
- Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Unnamed procedure 2/Area Scan (51x81x1):

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

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

Maximum value of SAR (interpolated) = 1.44 mW/g

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

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

Reference Value = 14.7 V/m; Power Drift = -0.076 dB

Peak SAR (extrapolated) = 1.87 W/kg

SAR(1 g) = 1.38 mW/g; SAR(10 g) = 0.971 mW/g

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

Maximum value of SAR (measured) = 1.47 mW/g

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

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

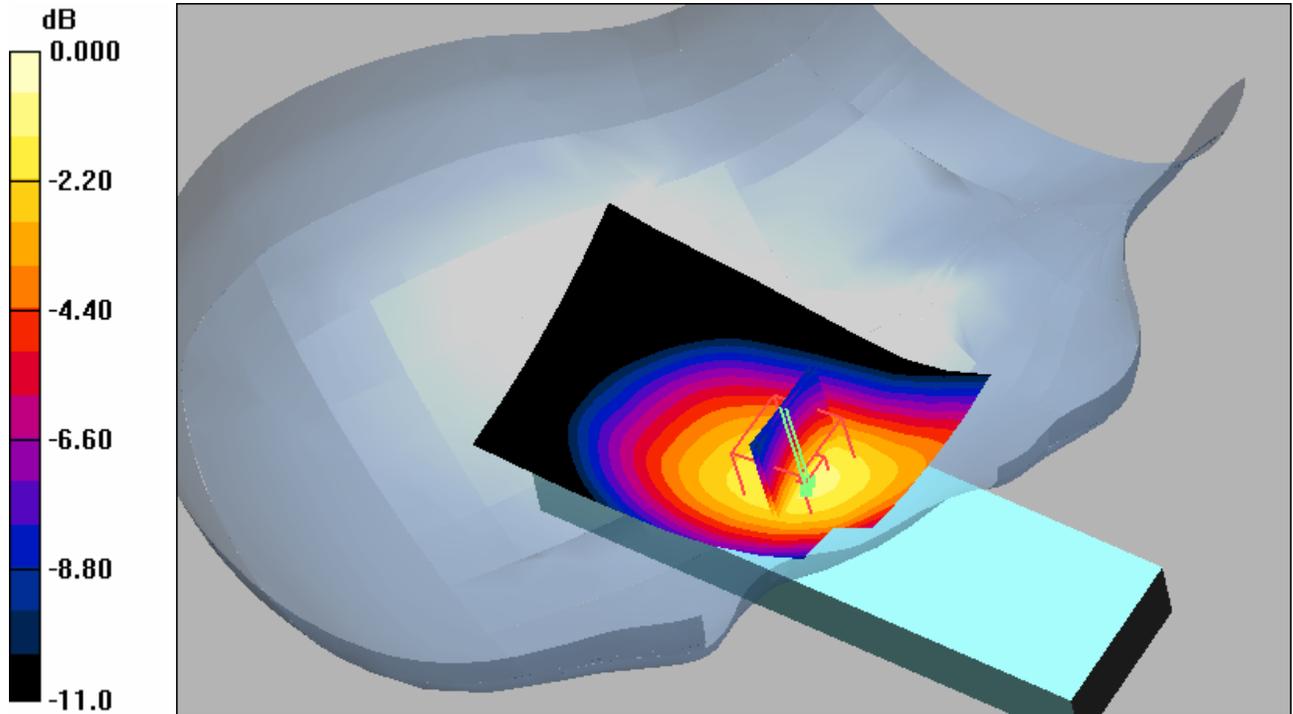
Reference Value = 14.7 V/m; Power Drift = -0.076 dB

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

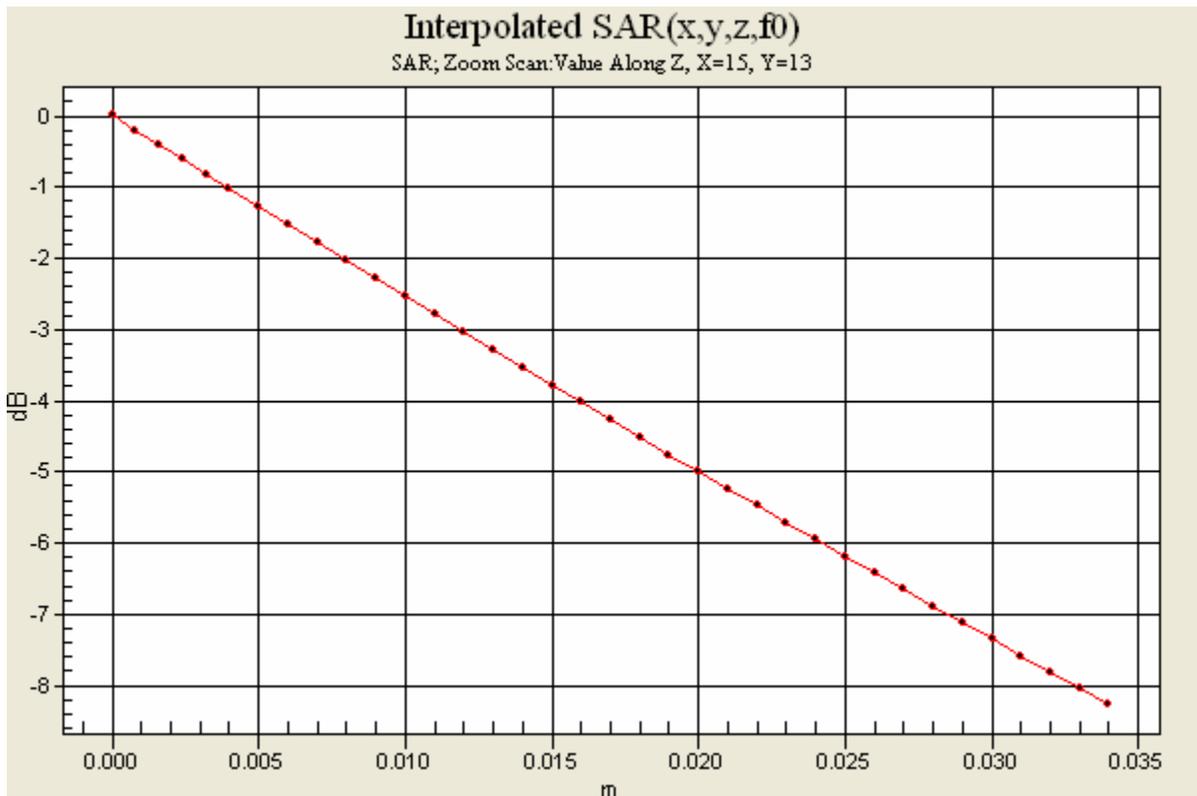
Maximum value of SAR (interpolated) = 1.87 mW/g



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
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0 dB = 1.87mW/g





Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked		B

800 GSM Band: Distribution and Extrapolation of Maximum SAR

Model: Z750a with Standard Battery: BST-33, Right Tilt Position.

Date/Time: 8/27/2007 11:58:52 AM

File Name: [27Aug07_Z750_GSM850_9DGF_RT01.da4](#)

DUT: Z750

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

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

Medium parameters used (interpolated): f = 836 MHz; $\sigma = 0.907$ mho/m; $\epsilon_r = 41.1$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery BST-33 Humidity - 52.9 % Ambient Temp - 20.7 C Simulant Temp - 21.2 C

DASY4 Configuration:

- Probe: ET3DV6 - SN1586; ConvF(6.63, 6.63, 6.63); Calibrated: 5/23/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn369; Calibrated: 5/29/2007
- Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Unnamed procedure 2/Area Scan (51x81x1):

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

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

Maximum value of SAR (interpolated) = 0.457 mW/g

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

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

Reference Value = 16.2 V/m; Power Drift = 0.031 dB

Peak SAR (extrapolated) = 0.547 W/kg

SAR(1 g) = 0.431 mW/g; SAR(10 g) = 0.322 mW/g

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

Maximum value of SAR (measured) = 0.452 mW/g

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

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

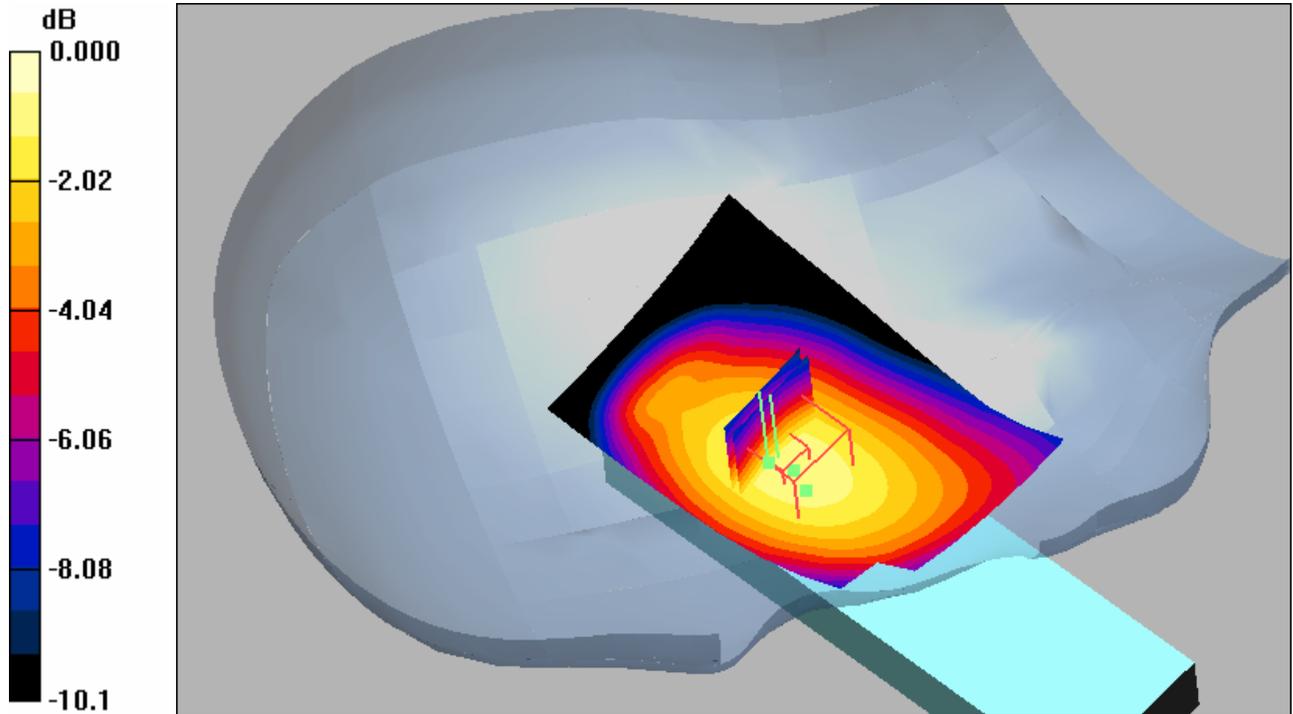
Reference Value = 16.2 V/m; Power Drift = 0.031 dB

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

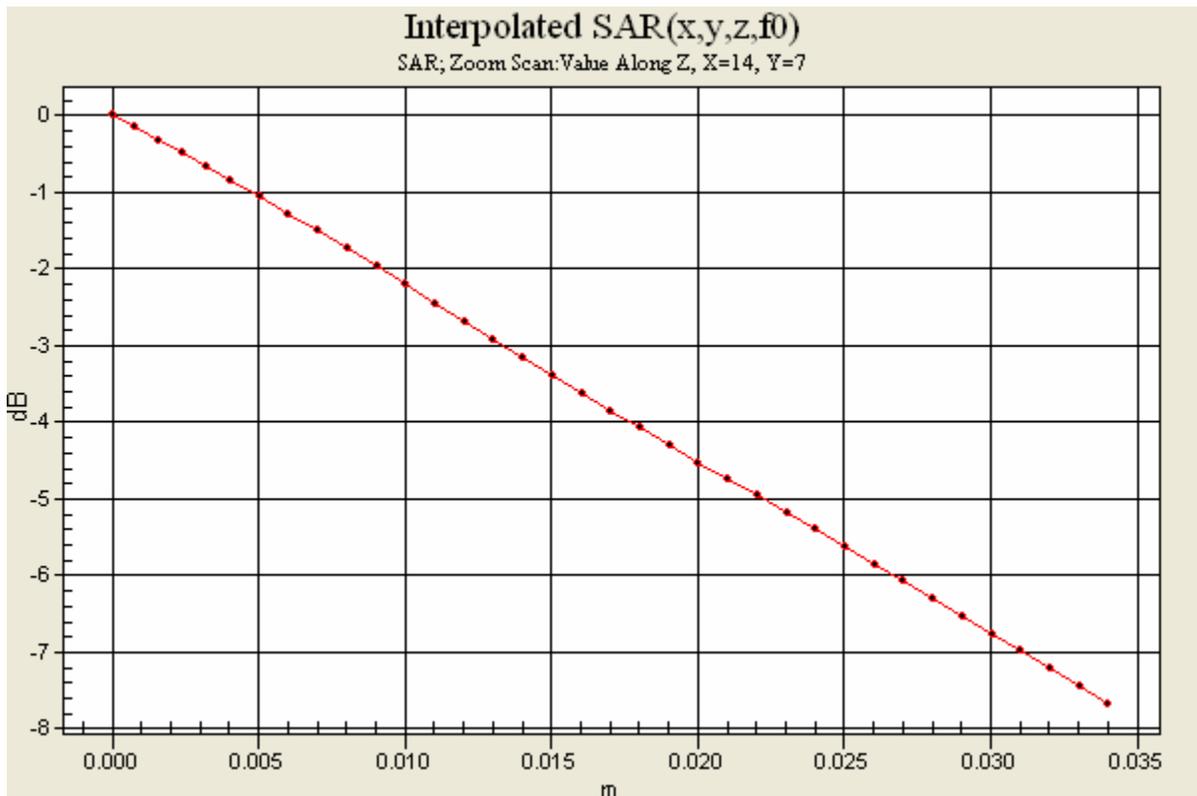
Maximum value of SAR (interpolated) = 0.547 mW/g



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked		B



0 dB = 0.547mW/g





Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked		B

800 GSM Band: Distribution and Extrapolation of Maximum SAR Model: Z750a with Standard Battery: BST-33, Left Cheek Position.

Date/Time: 8/27/2007 8:01:42 AM

File Name: [27Aug07_Z750_GSM850_9DGF_LC01.da4](#)

DUT: Z750

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

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

Medium parameters used (interpolated): f = 836 MHz; $\sigma = 0.907$ mho/m; $\epsilon_r = 41.1$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery BST-33 Humidity - 52 % Ambient Temp - 21.3 C Simulant Temp - 21.4 C

DASY4 Configuration:

- Probe: ET3DV6 - SN1586; ConvF(6.63, 6.63, 6.63); Calibrated: 5/23/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn369; Calibrated: 5/29/2007
- Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Unnamed procedure 2/Area Scan (51x81x1):

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

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

Maximum value of SAR (interpolated) = 1.37 mW/g

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

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

Reference Value = 11.3 V/m; Power Drift = -0.036 dB

Peak SAR (extrapolated) = 1.76 W/kg

SAR(1 g) = 1.26 mW/g; SAR(10 g) = 0.875 mW/g

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

Maximum value of SAR (measured) = 1.34 mW/g

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

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

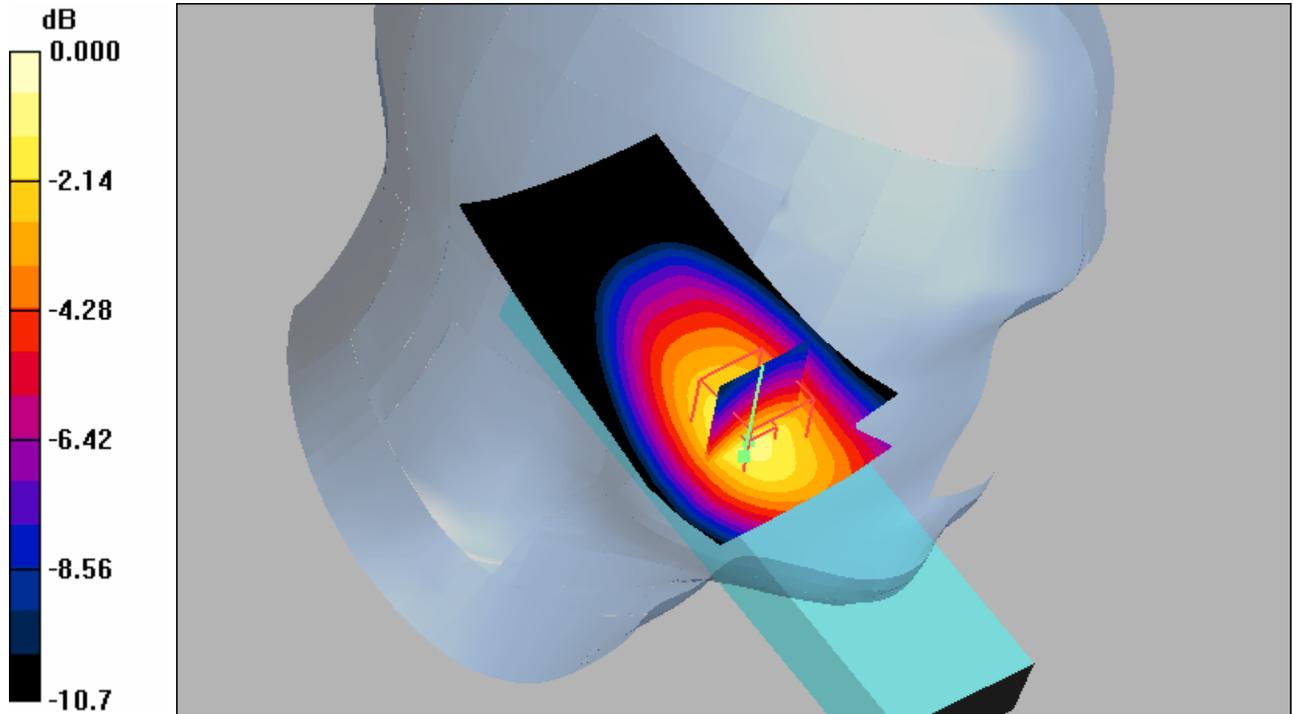
Reference Value = 11.3 V/m; Power Drift = -0.036 dB

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

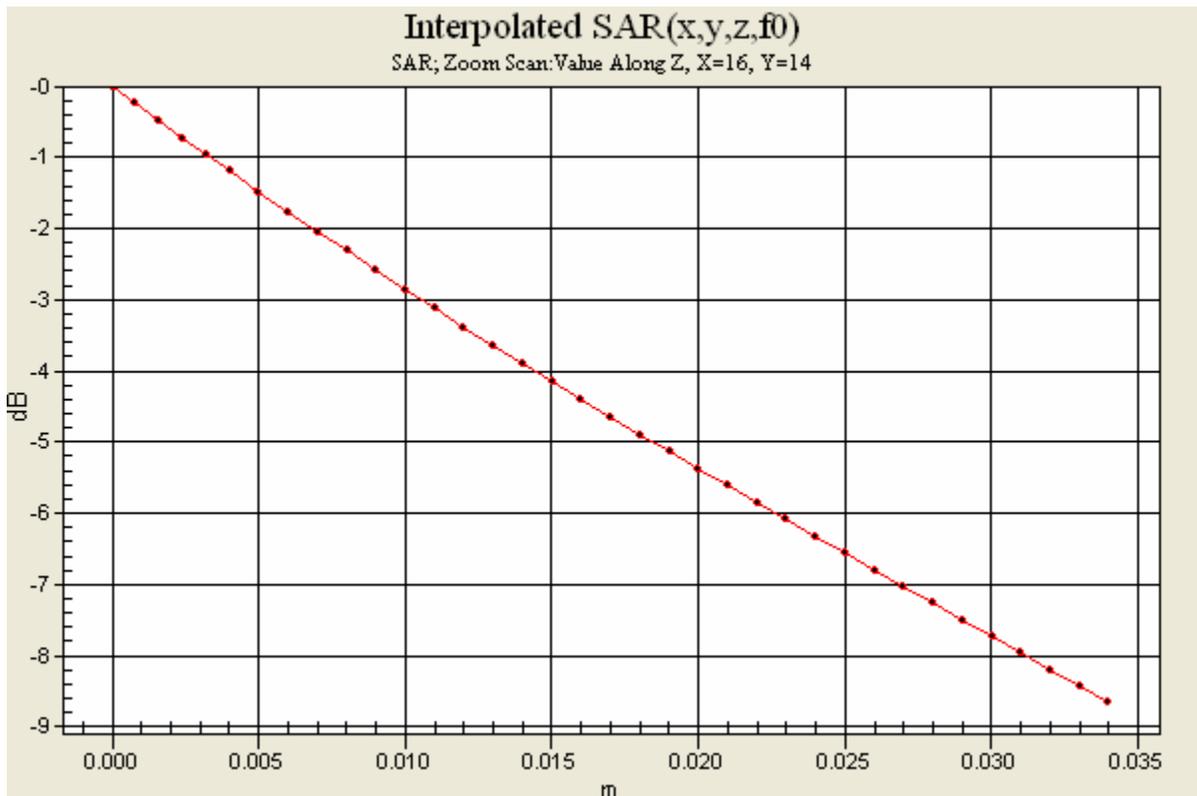
Maximum value of SAR (interpolated) = 1.76 mW/g



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
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0 dB = 1.76mW/g





Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked		B

800 GSM Band: Distribution and Extrapolation of Maximum SAR

Model: Z750a with Standard Battery: BST-33, Left Tilt Position.

Date/Time: 8/27/2007 9:04:52 AM

File Name: [27Aug07_Z750_GSM850_9DGF_LT01.da4](#)

DUT: Z750

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

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

Medium parameters used (interpolated): $f = 836$ MHz; $\sigma = 0.907$ mho/m; $\epsilon_r = 41.1$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery BST-33 Humidity - 50.6 % Ambient Temp - 21 C Simulant Temp - 21.3 C

DASY4 Configuration:

- Probe: ET3DV6 - SN1586; ConvF(6.63, 6.63, 6.63); Calibrated: 5/23/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn369; Calibrated: 5/29/2007
- Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Unnamed procedure 2/Area Scan (51x81x1):

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

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

Maximum value of SAR (interpolated) = 0.423 mW/g

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

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

Reference Value = 12.7 V/m; Power Drift = 0.056 dB

Peak SAR (extrapolated) = 0.493 W/kg

SAR(1 g) = 0.397 mW/g; SAR(10 g) = 0.298 mW/g

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

Maximum value of SAR (measured) = 0.416 mW/g

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

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

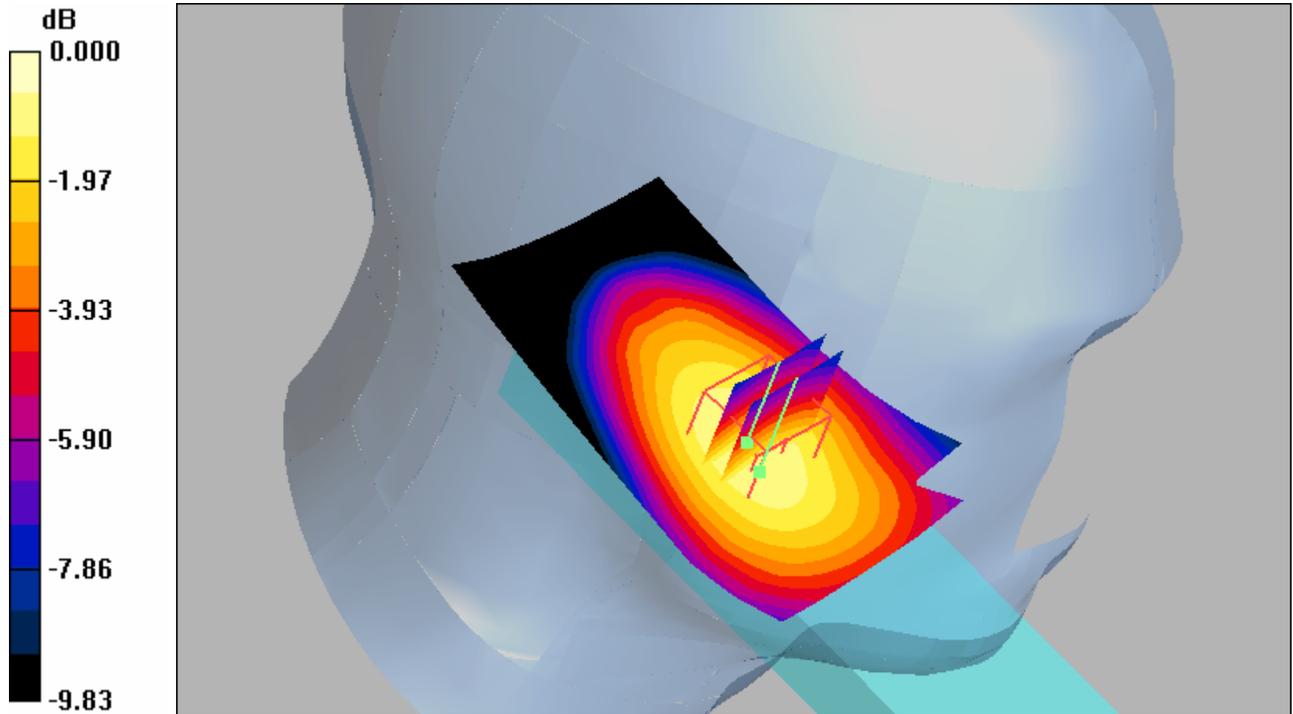
Reference Value = 12.7 V/m; Power Drift = 0.056 dB

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

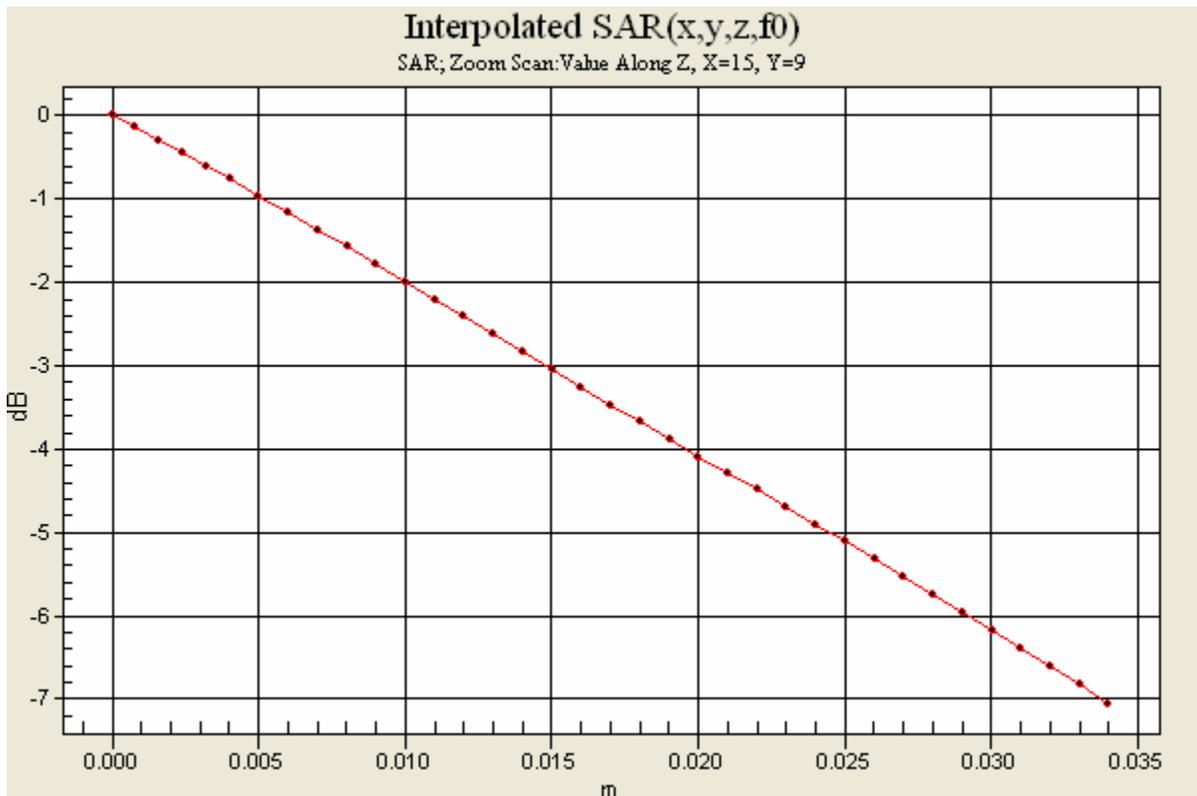
Maximum value of SAR (interpolated) = 0.493 mW/g



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	B	



0 dB = 0.493mW/g





Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked		B

800 GSM Band: Distribution and Extrapolation of Maximum SAR

Model: Z750a with Standard Battery: BST-33, Right Cheek Position with Blue Tooth.

Date/Time: 8/27/2007 12:59:04 PM

File Name: [27Aug07_Z750_GSM850_9DGF_BT_RC01.da4](#)

DUT: Z750

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

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

Medium parameters used (interpolated): $f = 836$ MHz; $\sigma = 0.907$ mho/m; $\epsilon_r = 41.1$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery BST-33 Humidity - 52.9 % Ambient Temp - 20.7 C Simulant Temp - 21.2 C

DASY4 Configuration:

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

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

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

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

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

Unnamed procedure 2/Area Scan (51x81x1):

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

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

Maximum value of SAR (interpolated) = 1.44 mW/g

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

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

Reference Value = 14.9 V/m; Power Drift = -0.032 dB

Peak SAR (extrapolated) = 1.88 W/kg

SAR(1 g) = 1.39 mW/g; SAR(10 g) = 0.972 mW/g

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

Maximum value of SAR (measured) = 1.48 mW/g

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

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

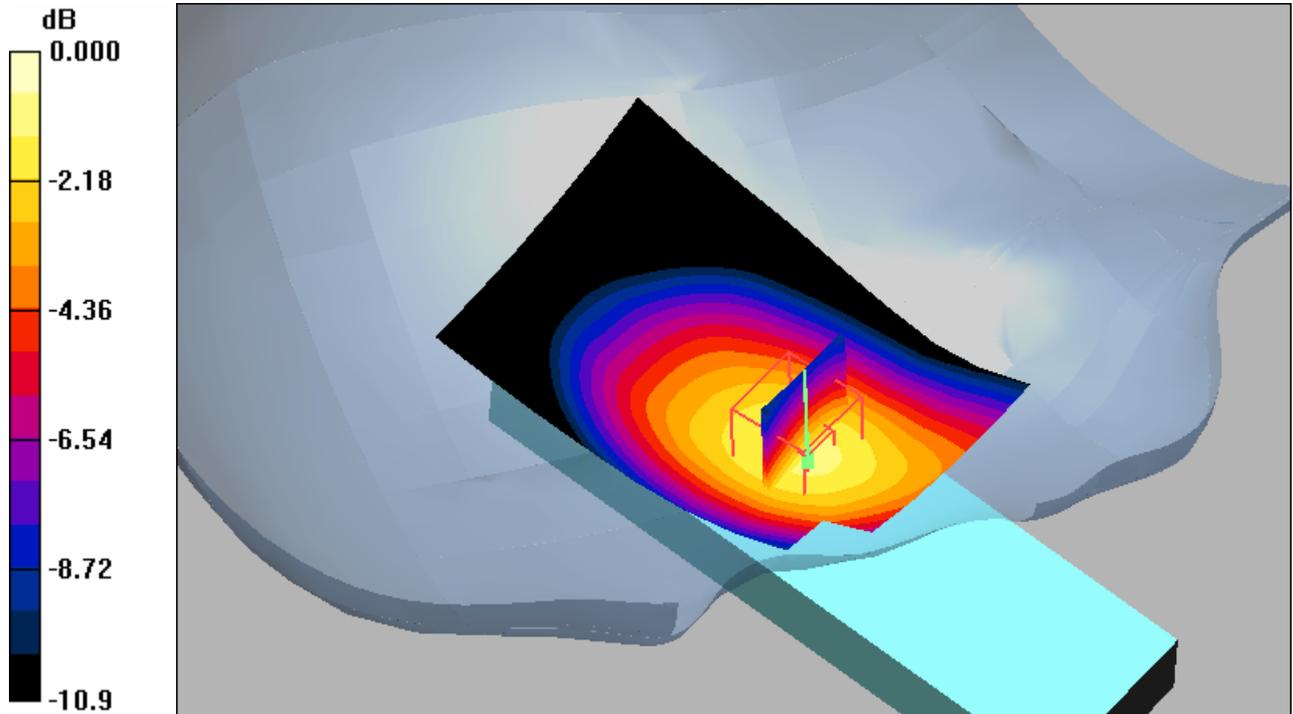
Reference Value = 14.9 V/m; Power Drift = -0.032 dB

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

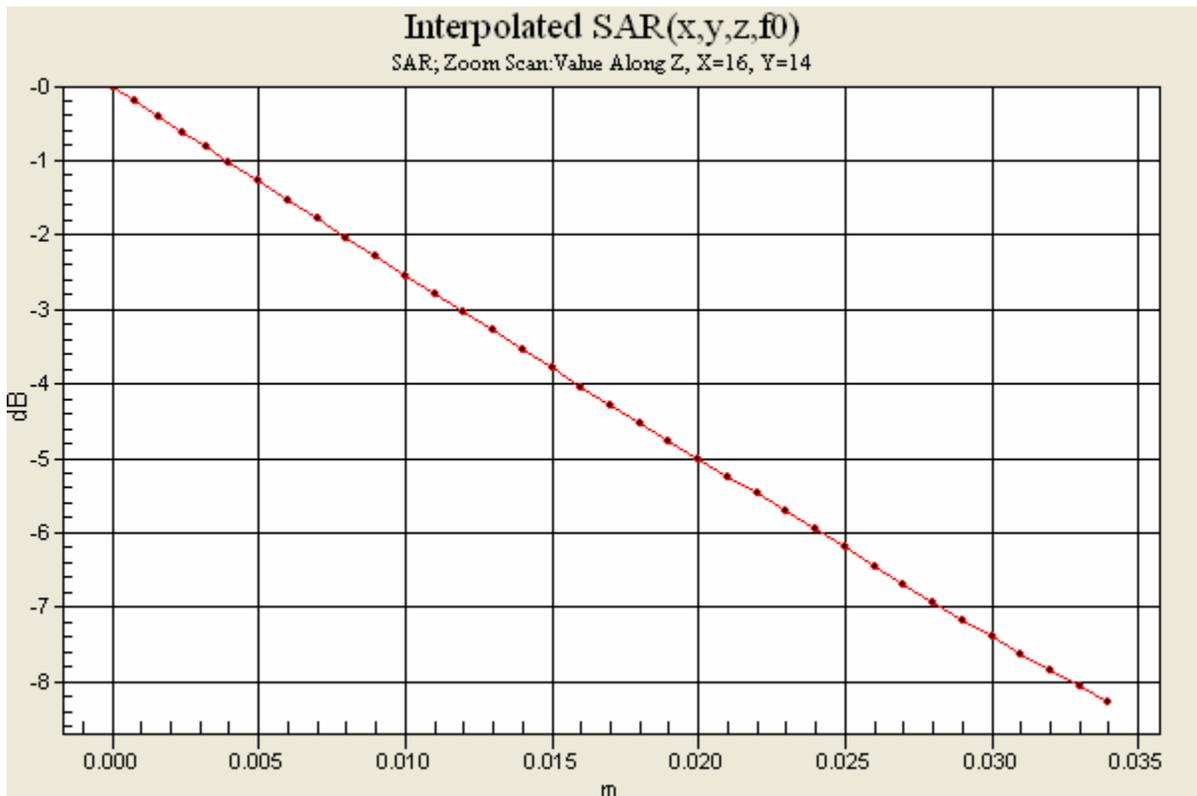
Maximum value of SAR (interpolated) = 1.88 mW/g



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
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0 dB = 1.88mW/g





Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked		B

**1900 GSM Band: Distribution and Extrapolation of Maximum SAR
Model: Z750a with Standard Battery: BST-33, Right Cheek Position.**

Date/Time: 8/20/2007 8:36:05 AM

File Name: [20Aug07_Z750_GSM1900_9CZQ_RC01.da4](#)

DUT: Z750

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

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery - BST33 Humidity - 45.7 % Ambient Temp - 22.2 C Simulant Tem - 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: 1054

- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 176

Unnamed procedure 2/Area Scan (51x81x1):

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

Maximum value of SAR (interpolated) = 0.621 mW/g

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

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

Reference Value = 7.07 V/m; Power Drift = -0.114 dB

Peak SAR (extrapolated) = 0.883 W/kg

SAR(1 g) = 0.588 mW/g; SAR(10 g) = 0.330 mW/g

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

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

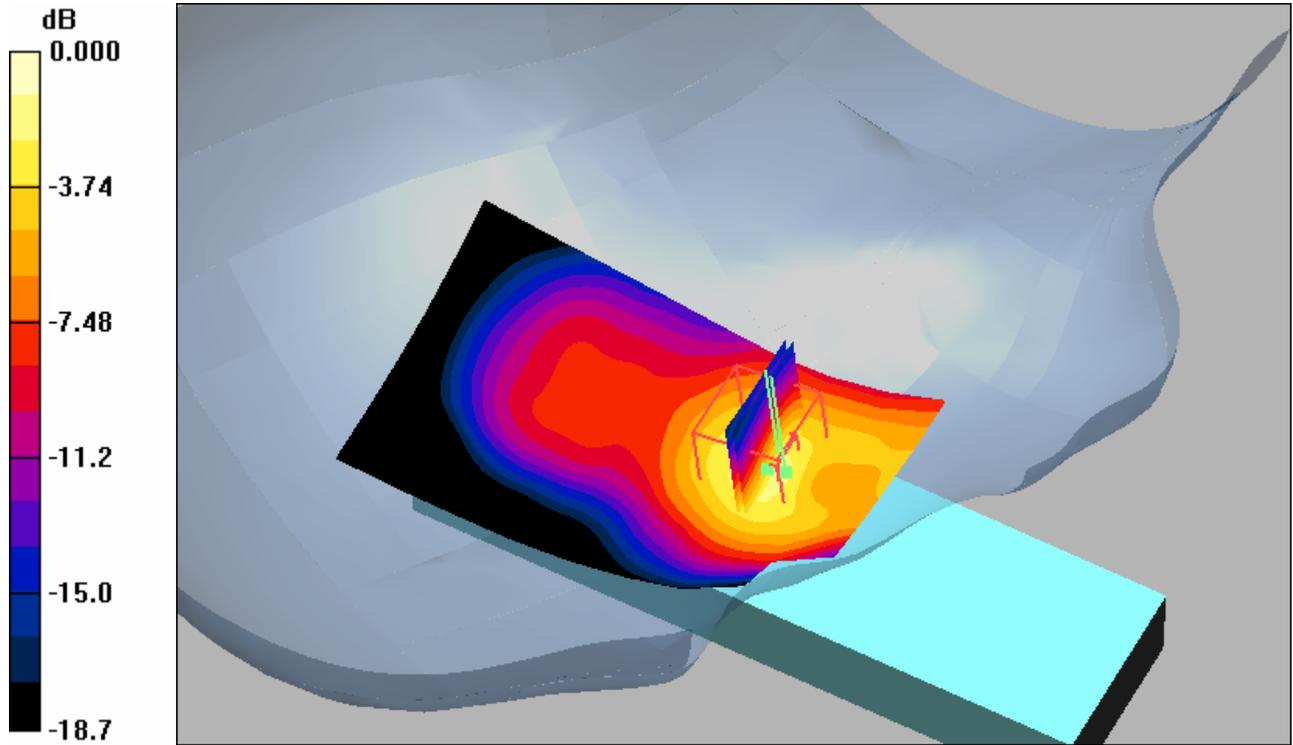
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.07 V/m; Power Drift = -0.114 dB

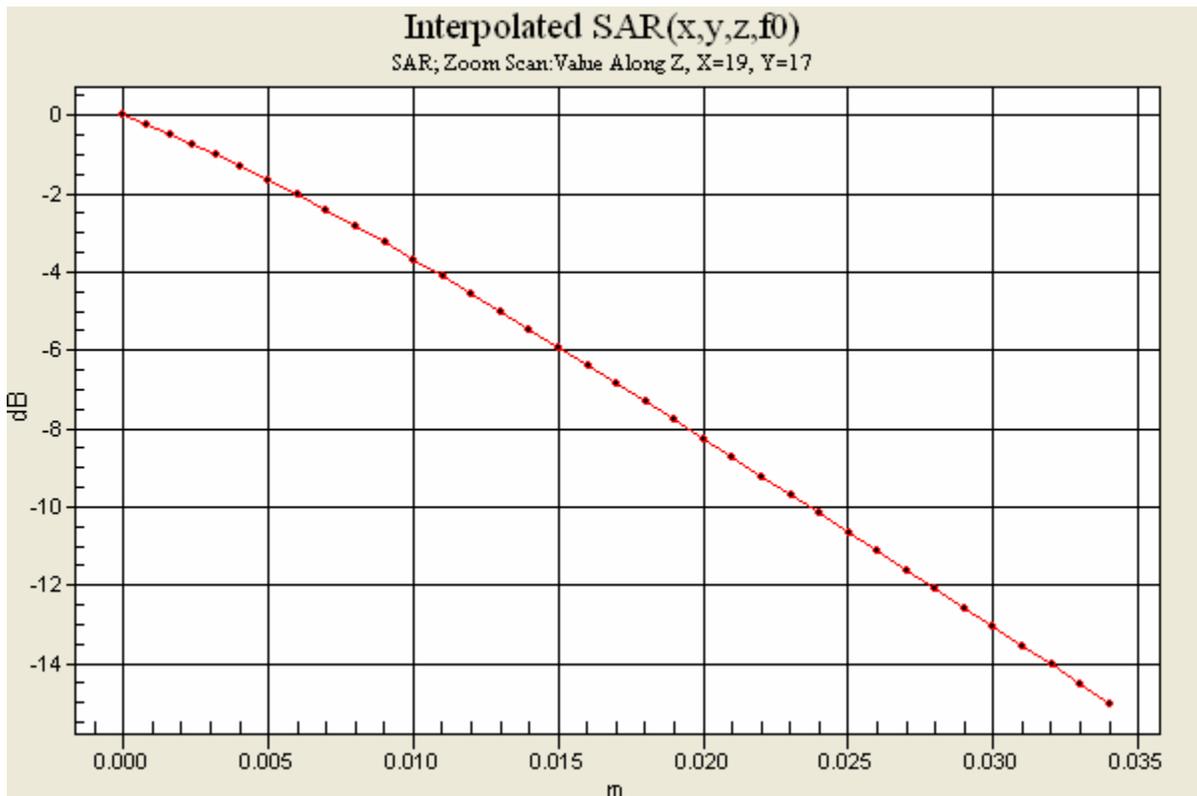
Maximum value of SAR (interpolated) = 0.883 mW/g



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked		B



0 dB = 0.883mW/g





Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked		B

1900 GSM Band: Distribution and Extrapolation of Maximum SAR

Model: Z750a with Standard Battery: BST-33, Right Tilt Position.

Date/Time: 8/20/2007 10:27:53 AM

File Name: [20Aug07_Z750_GSM1900_9CZQ_RT01.da4](#)

DUT: Z750

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

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

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.48$ mho/m; $\epsilon_r = 38.1$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery - BST33 Humidity - 49.3 % Ambient Temp - 21.3 C Simulant Tem - 21.9 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: 1054

- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 176

Unnamed procedure 3/Area Scan (51x81x1):

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

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

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

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

Reference Value = 8.76 V/m; Power Drift = 0.015 dB

Peak SAR (extrapolated) = 0.195 W/kg

SAR(1 g) = 0.141 mW/g; SAR(10 g) = 0.089 mW/g

Maximum value of SAR (measured) = 0.154 mW/g

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

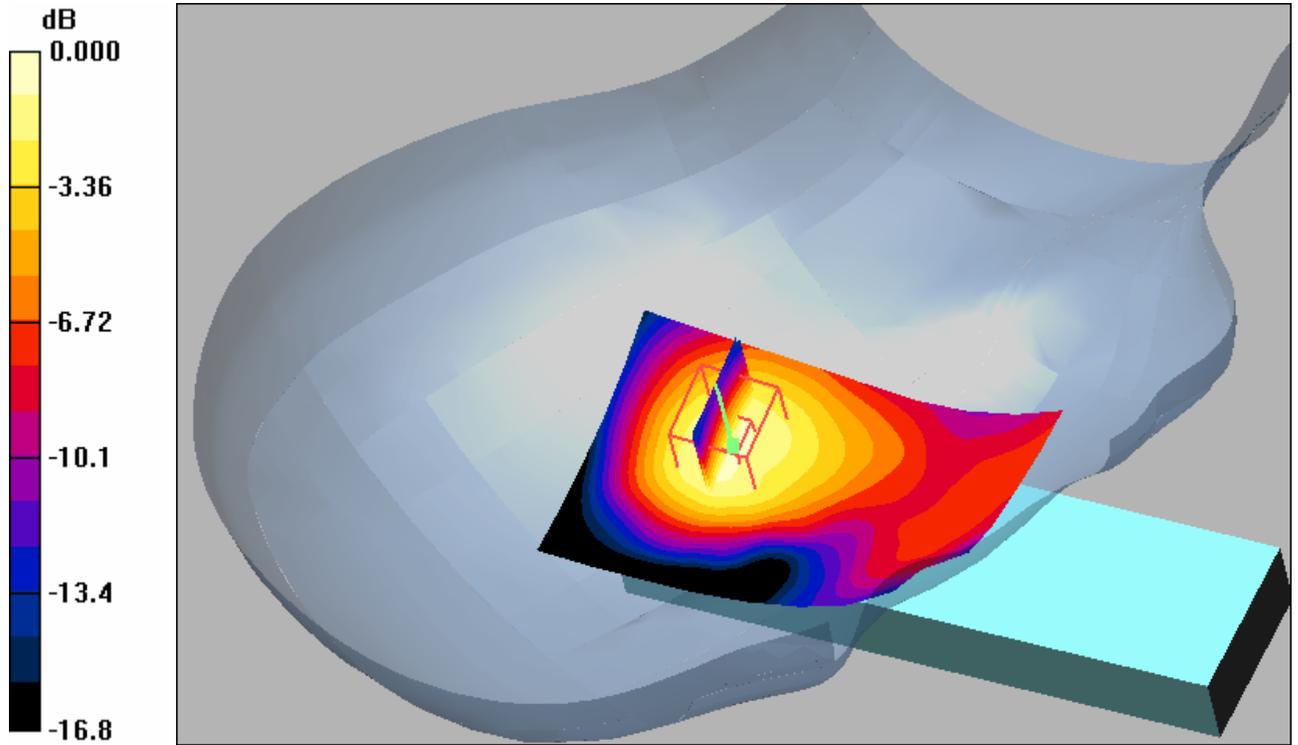
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.76 V/m; Power Drift = 0.015 dB

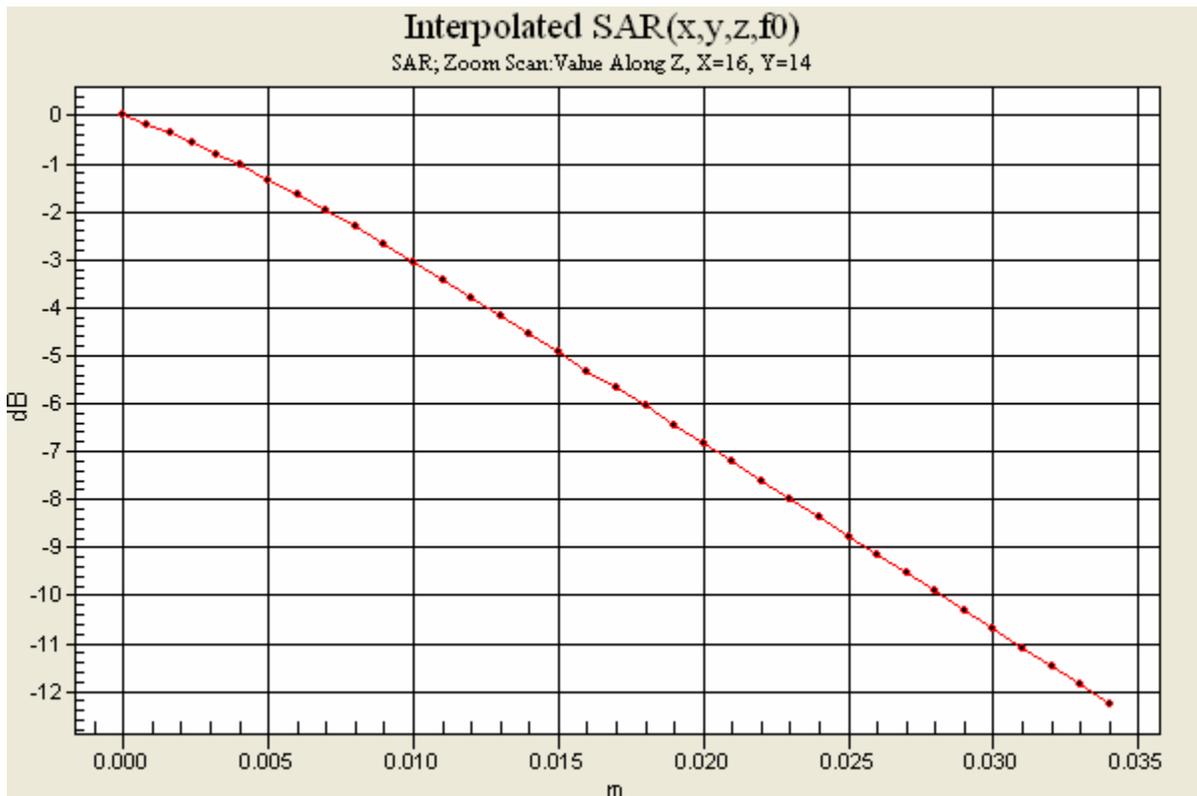
Maximum value of SAR (interpolated) = 0.195 mW/g



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked		B



0 dB = 0.195mW/g





Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked		B

1900 GSM Band: Distribution and Extrapolation of Maximum SAR

Model: Z750a with Standard Battery: BST-33, Left Cheek Position.

Date/Time: 8/20/2007 11:15:48 AM

File Name: [20Aug07_Z750_GSM1900_9CZQ_LC01.da4](#)

DUT: Z750

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; $\sigma = 1.45$ mho/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery - BST-33 Humidity: 51.7% Ambient Temp: 21.2 C Simulant Temp: 21.8 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: 1054
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 176

Unnamed procedure 2/Area Scan (51x81x1):

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

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

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

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

Reference Value = 7.70 V/m; Power Drift = -0.094 dB

Peak SAR (extrapolated) = 0.883 W/kg

SAR(1 g) = 0.484 mW/g; SAR(10 g) = 0.271 mW/g

Maximum value of SAR (measured) = 0.538 mW/g

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

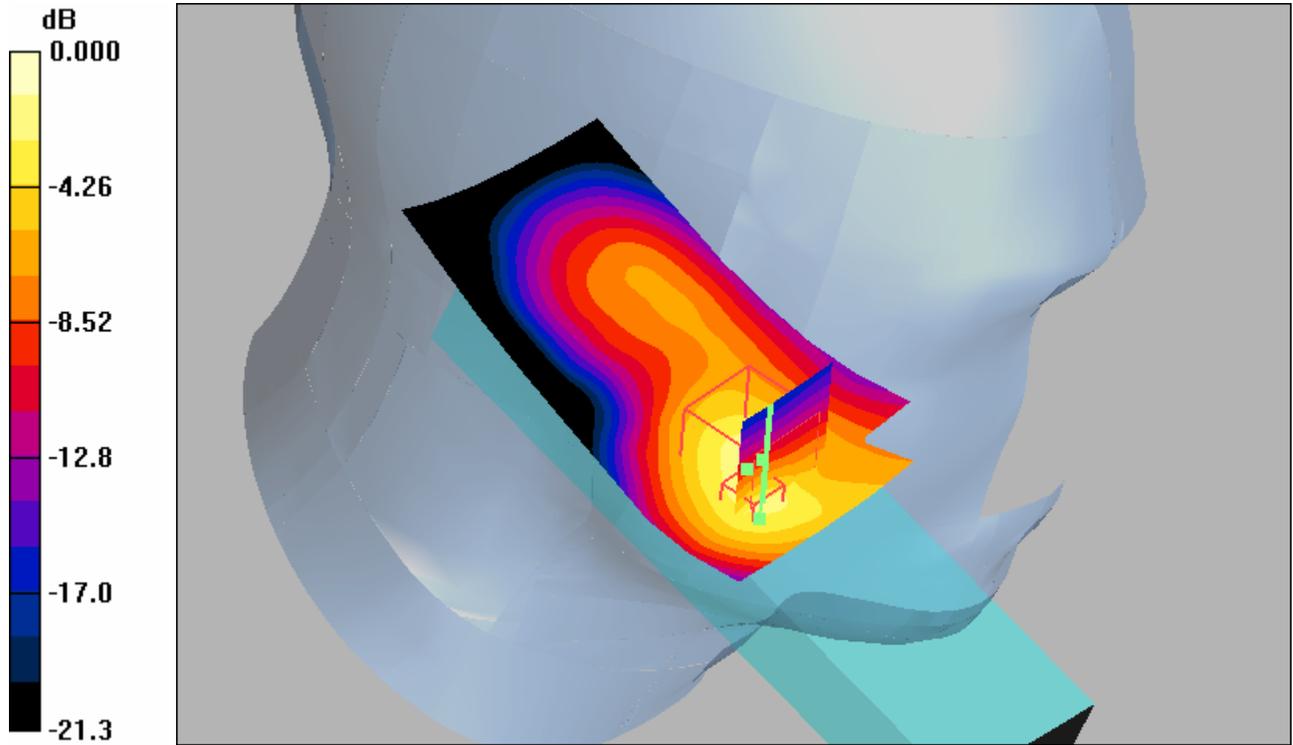
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.70 V/m; Power Drift = -0.094 dB

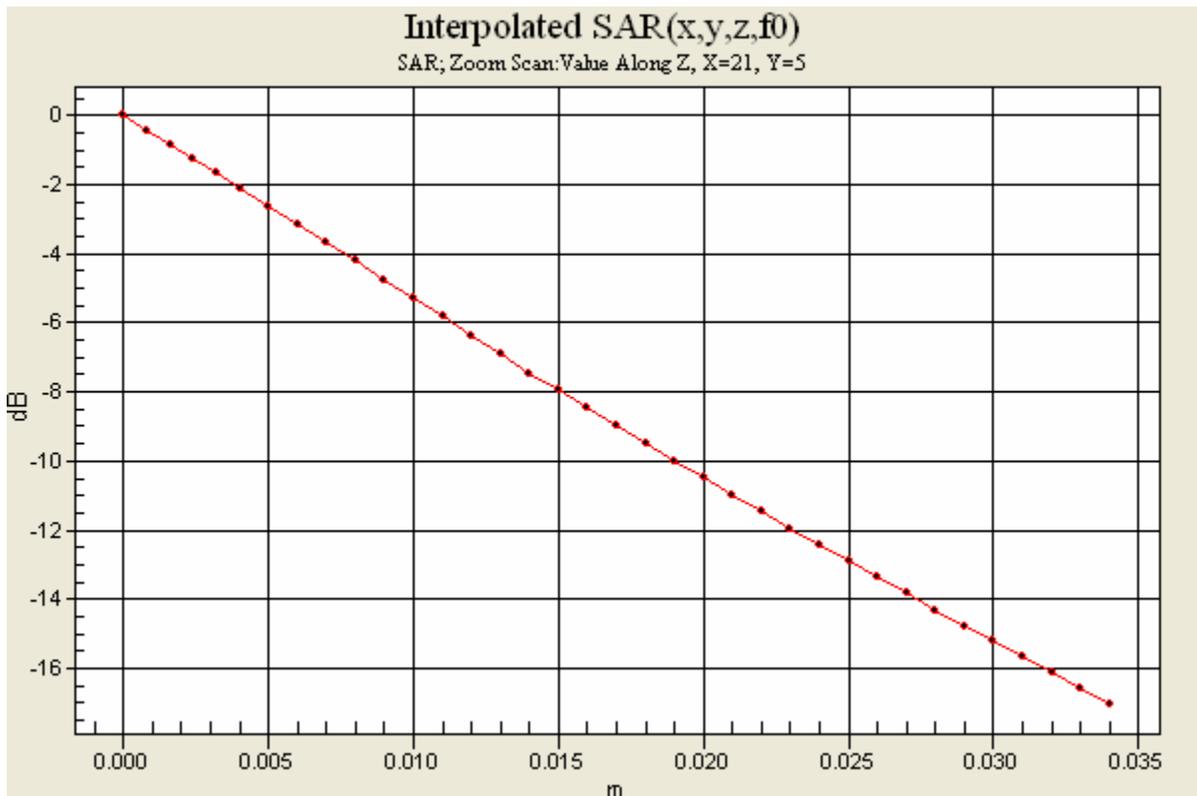
Maximum value of SAR (interpolated) = 0.883 mW/g



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	B	



0 dB = 0.883mW/g





Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked		B

1900 GSM Band: Distribution and Extrapolation of Maximum SAR

Model: Z750a with Standard Battery: BST-33, Left Tilt Position.

Date/Time: 8/20/2007 12:59:04 PM

File Name: [20Aug07_Z750_GSM1900_9CZQ_LT01.da4](#)

DUT: Z750

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

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

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.48$ mho/m; $\epsilon_r = 38.1$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery - BST-33 Humidity: 51.8% Ambient Temp: 21.5 C Simulant Temp: 21.8 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: 1054
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 176

Unnamed procedure 3/Area Scan (51x81x1):

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

Maximum value of SAR (interpolated) = 0.190 mW/g

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

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

Reference Value = 9.94 V/m; Power Drift = -0.012 dB

Peak SAR (extrapolated) = 0.241 W/kg

SAR(1 g) = 0.168 mW/g; SAR(10 g) = 0.103 mW/g

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

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

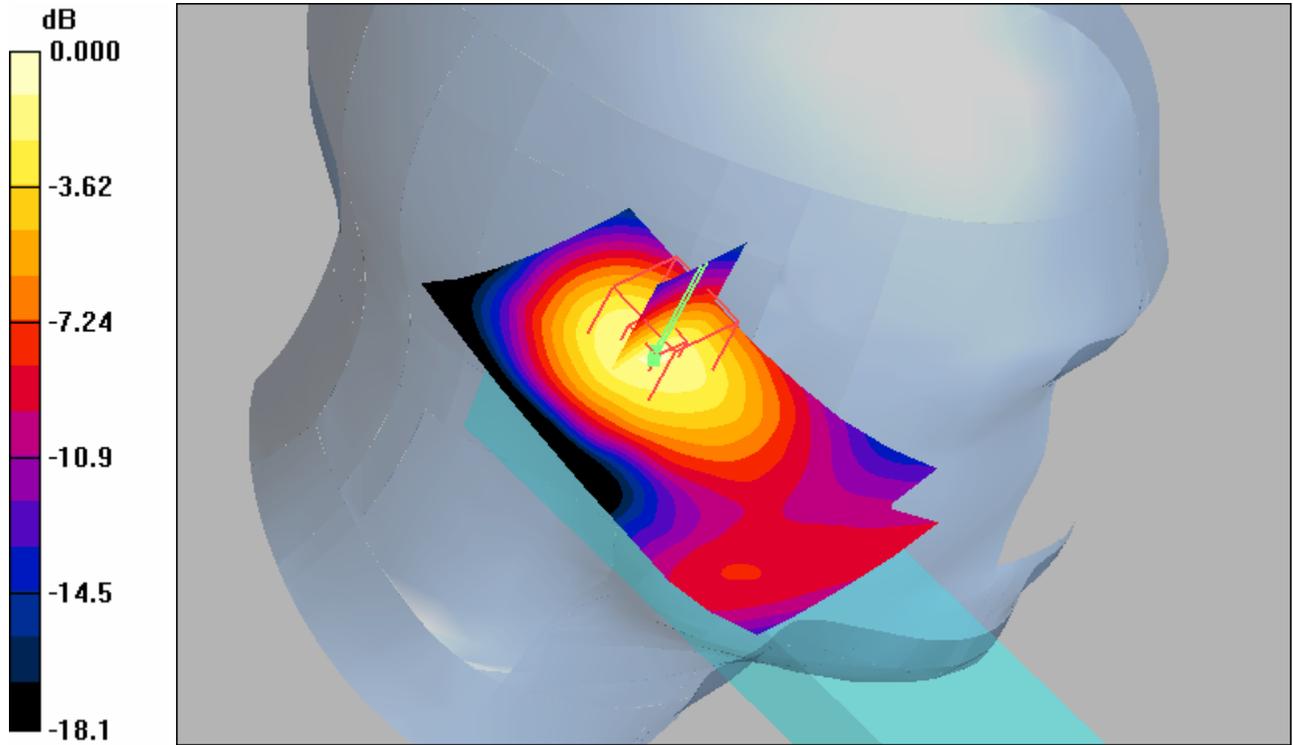
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.94 V/m; Power Drift = -0.012 dB

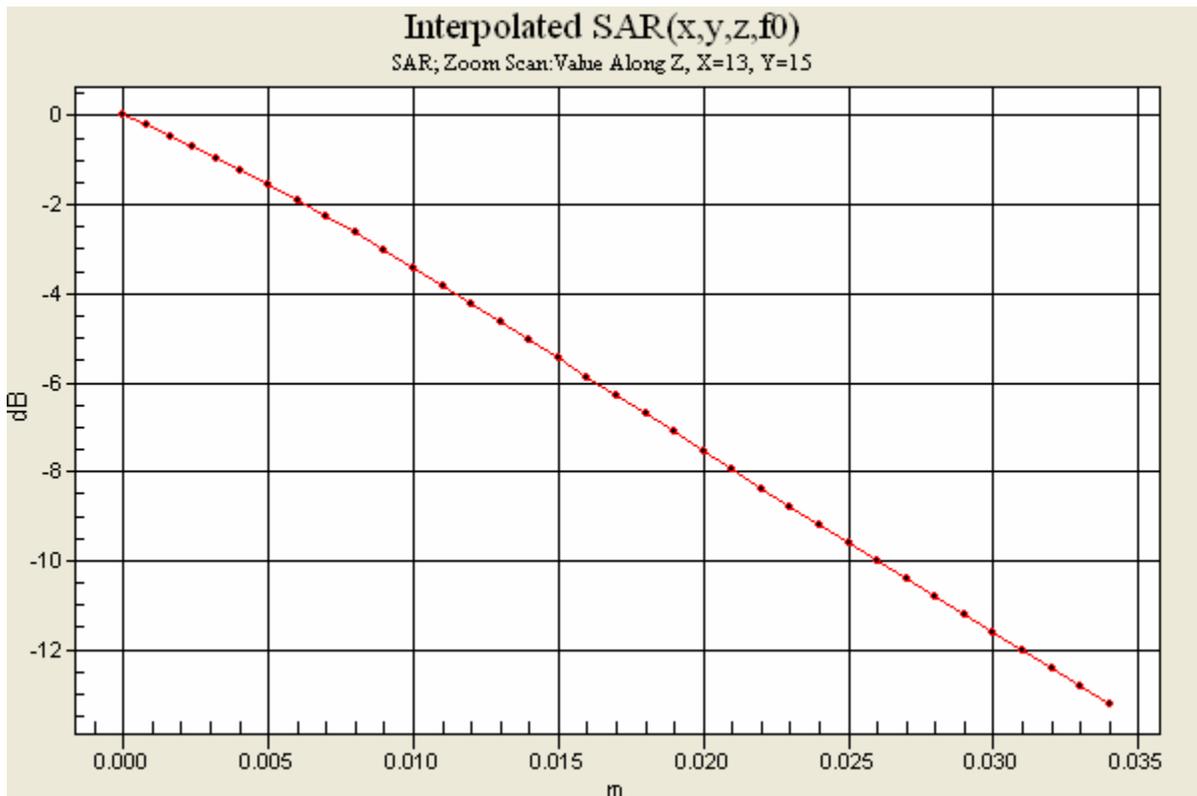
Maximum value of SAR (interpolated) = 0.241 mW/g



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked		B



0 dB = 0.241mW/g





Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked		B

1900 GSM Band: Distribution and Extrapolation of Maximum SAR

Model: Z750a with Standard Battery: BST-33, Right Cheek Position with Bluetooth.

Date/Time: 8/20/2007 1:23:46 PM

File Name: [20Aug07_Z750_GSM1900_9CZQ_BT_RC01.da4](#)

DUT: Z750

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

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery - BST33 Humidity - 45.7 % Ambient Temp - 22.2 C Simulant Tem - 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: 1054

- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 176

Unnamed procedure 2/Area Scan (51x81x1):

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

Maximum value of SAR (interpolated) = 0.666 mW/g

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

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

Reference Value = 7.73 V/m; Power Drift = -0.114 dB

Peak SAR (extrapolated) = 0.910 W/kg

SAR(1 g) = 0.607 mW/g; SAR(10 g) = 0.339 mW/g

Maximum value of SAR (measured) = 0.674 mW/g

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

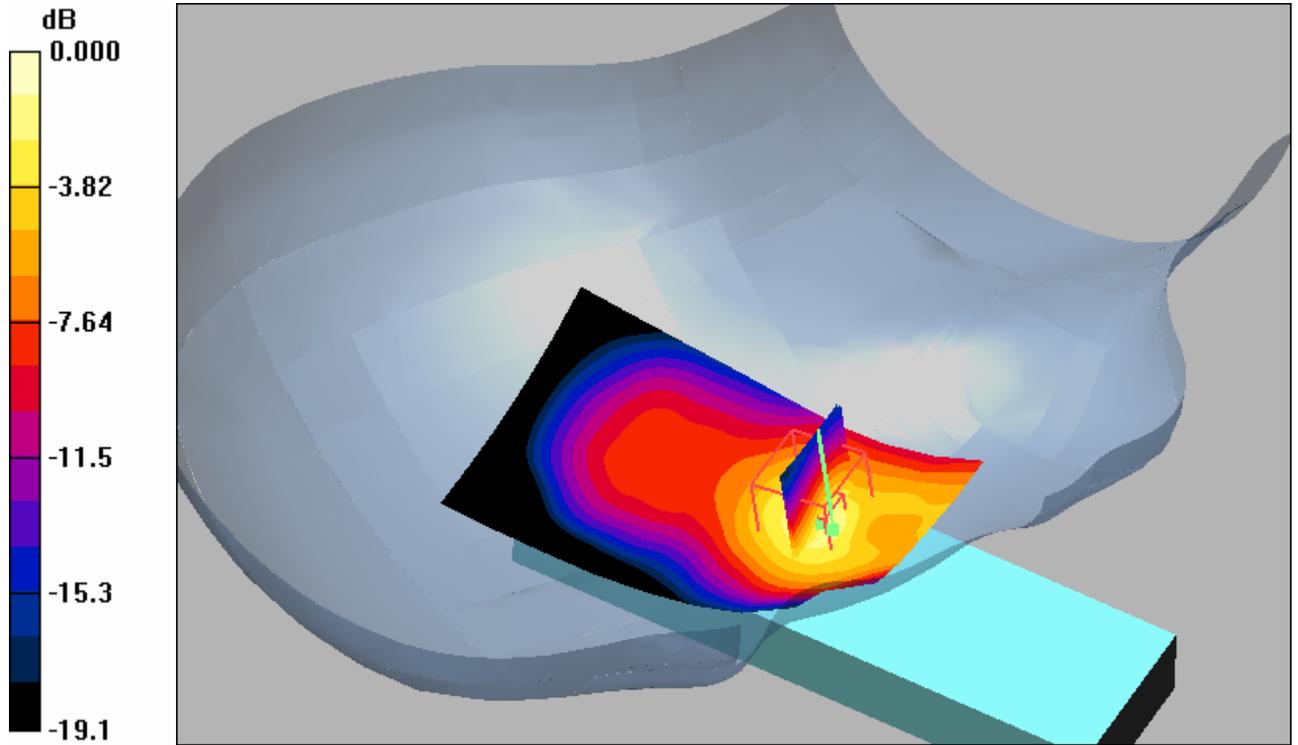
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.73 V/m; Power Drift = -0.114 dB

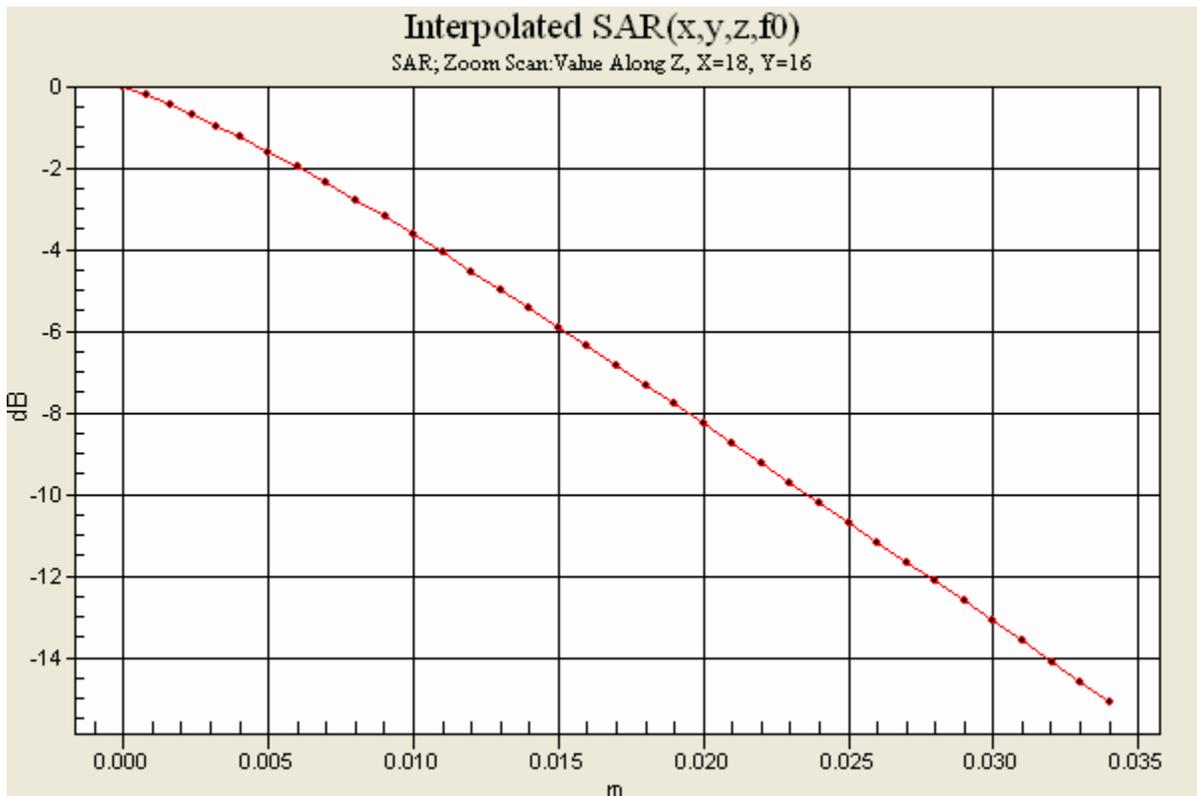
Maximum value of SAR (interpolated) = 0.910 mW/g



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked		B



0 dB = 0.910mW/g





Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked		B

Band V UMTS: SAR Distribution and Extrapolation of Maximum SAR

Model: Z750a with Standard Battery: BST-33, Right Cheek Position.

Date/Time: 8/31/2007 8:22:53 AM

File Name: [31Aug07_Z750_B5WCDMA_9DGF_RC01.da4](#)

DUT: Z750

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): $f = 846.4$ MHz; $\sigma = 0.91$ mho/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery BST-33 Humidity: 46.5 % Ambient Temp: 21.6 C Simulant Temp: 21.4 C

DASY4 Configuration:

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

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

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

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

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

Unnamed procedure 3/Area Scan (51x81x1):

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

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

Maximum value of SAR (interpolated) = 1.35 mW/g

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

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

Reference Value = 13.2 V/m; Power Drift = 0.006 dB

Peak SAR (extrapolated) = 1.72 W/kg

SAR(1 g) = 1.28 mW/g; SAR(10 g) = 0.902 mW/g

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

Maximum value of SAR (measured) = 1.37 mW/g

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

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

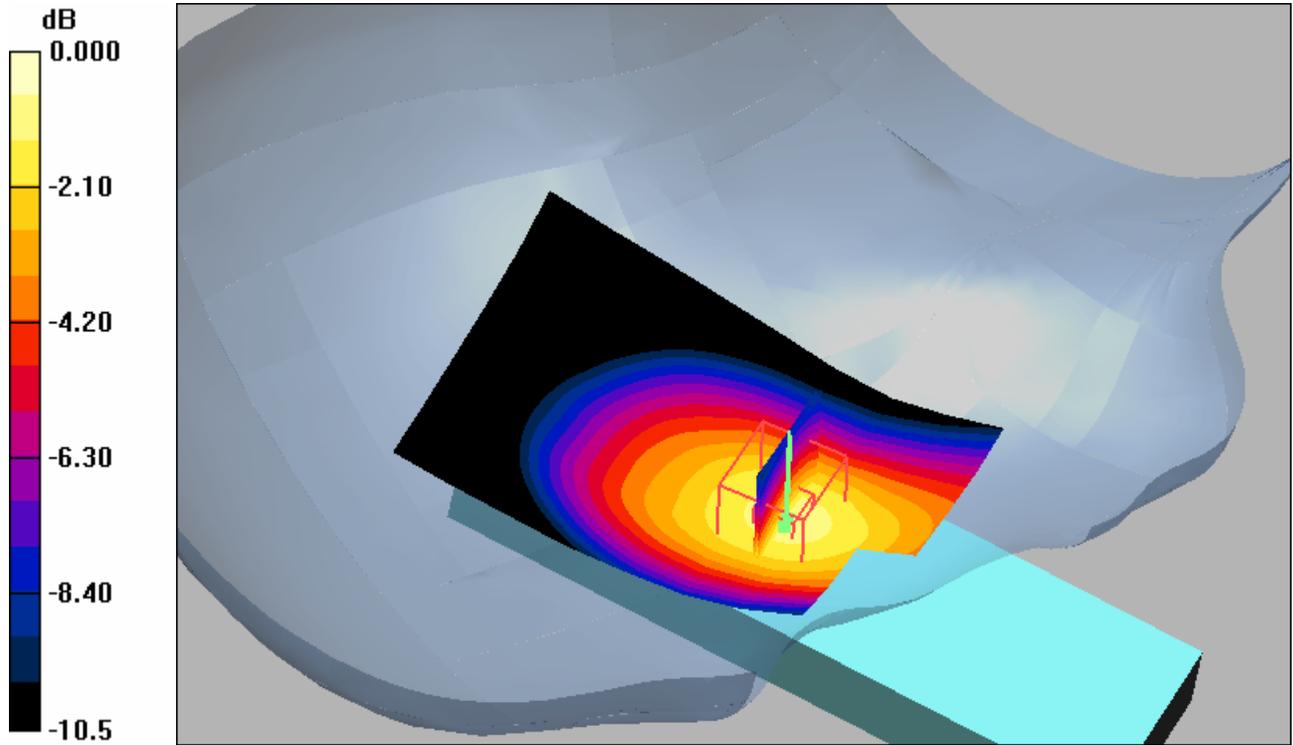
Reference Value = 13.2 V/m; Power Drift = 0.006 dB

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

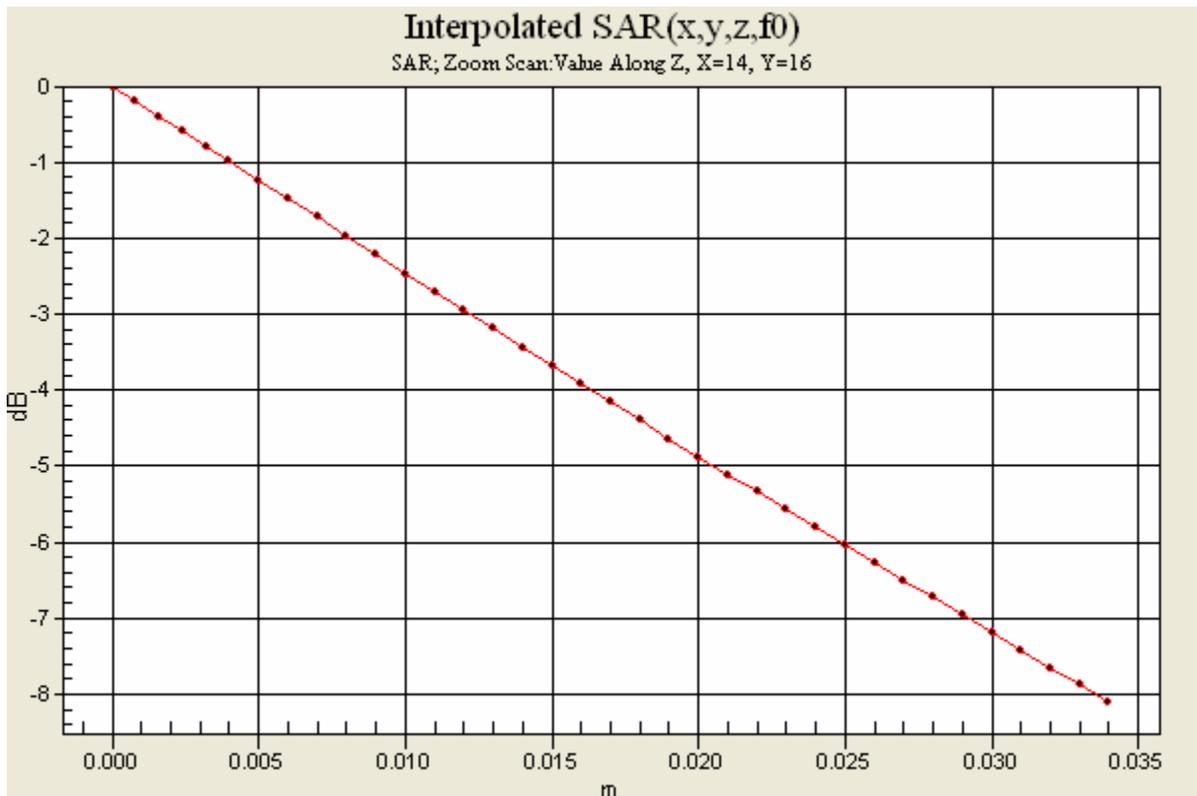
Maximum value of SAR (interpolated) = 1.72 mW/g



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	B	



0 dB = 1.72mW/g





Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked		B

Band V UMTS: Distribution and Extrapolation of Maximum SAR Model: Z750a with Standard Battery: BST-33, Right Tilt Position.

Date/Time: 8/31/2007 8:45:09 AM

File Name: [31Aug07_Z750_B5WCDMA_9DGF_RT01.da4](#)

DUT: Z750

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): $f = 846.4$ MHz; $\sigma = 0.91$ mho/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery BST-33 Humidity: 43.8 % Ambient Temp: 21.9 C Simulant Temp: 21.5 C

DASY4 Configuration:

- Probe: ET3DV6 - SN1586; ConvF(6.63, 6.63, 6.63); Calibrated: 5/23/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn369; Calibrated: 5/29/2007
- Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Unnamed procedure 3/Area Scan (51x81x1):

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

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

Maximum value of SAR (interpolated) = 0.493 mW/g

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

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

Reference Value = 15.4 V/m; Power Drift = 0.006 dB

Peak SAR (extrapolated) = 0.582 W/kg

SAR(1 g) = 0.469 mW/g; SAR(10 g) = 0.353 mW/g

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

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

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

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

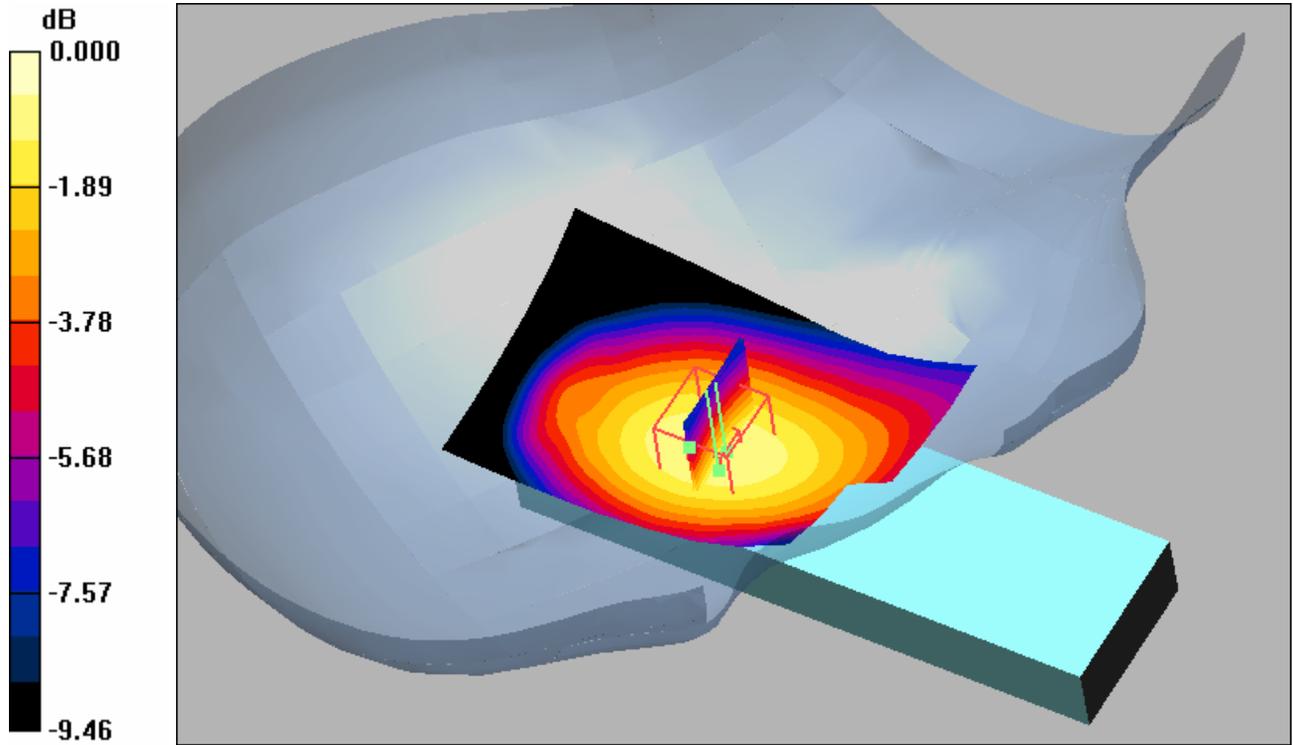
Reference Value = 15.4 V/m; Power Drift = 0.006 dB

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

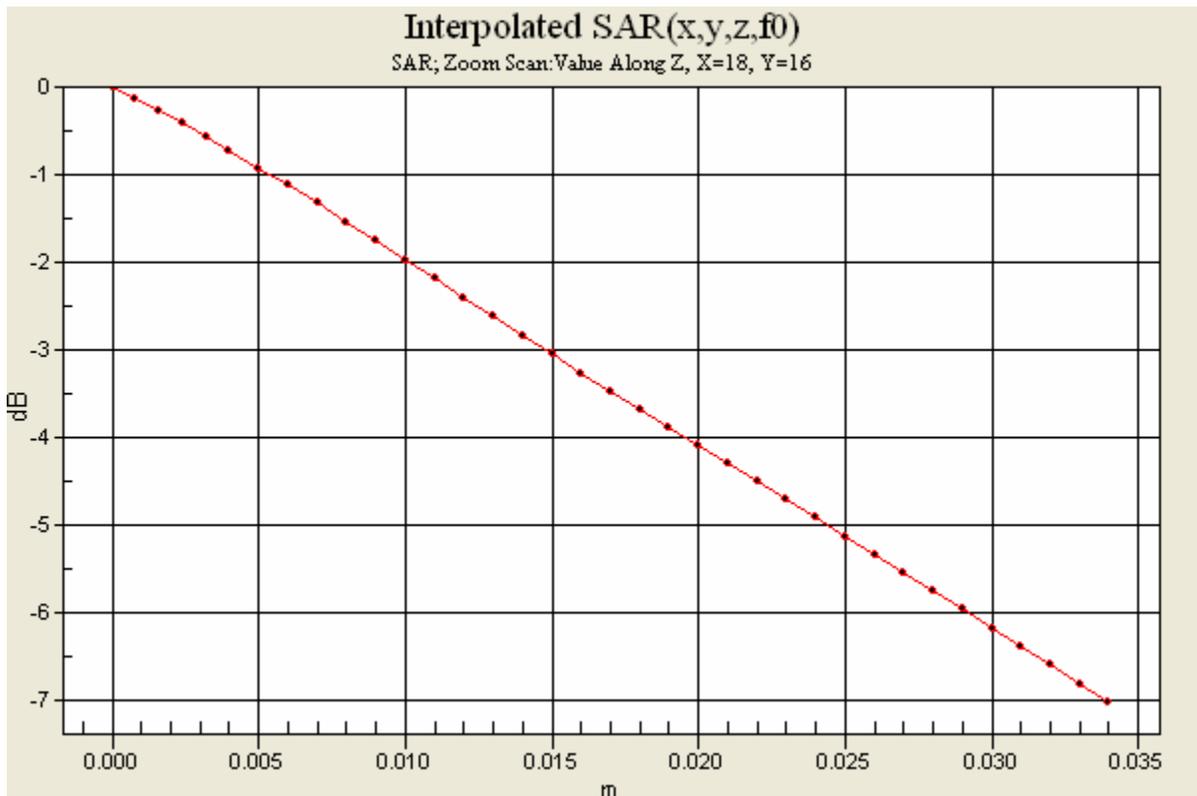
Maximum value of SAR (interpolated) = 0.582 mW/g



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0 dB = 0.582mW/g





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**Band V UMTS: Distribution and Extrapolation of Maximum SAR
Model: Z750a with Standard Battery: BST-33, Left Cheek Position.**

Date/Time: 8/31/2007 10:34:22 AM

File Name: [31Aug07_Z750_B5WCDMA_9DGF_LC01.da4](#)

DUT: Z750

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

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

Medium parameters used (interpolated): $f = 846.4$ MHz; $\sigma = 0.91$ mho/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery BST-33 Humidity: 47.3 % Ambient Temp: 21.9 C Simulant Temp: 21.5 C

DASY4 Configuration:

- Probe: ET3DV6 - SN1586; ConvF(6.63, 6.63, 6.63); Calibrated: 5/23/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn369; Calibrated: 5/29/2007
- Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Unnamed procedure 3/Area Scan (51x81x1):

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

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

Maximum value of SAR (interpolated) = 1.32 mW/g

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

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

Reference Value = 10.9 V/m; Power Drift = -0.166 dB

Peak SAR (extrapolated) = 1.75 W/kg

SAR(1 g) = 1.25 mW/g; SAR(10 g) = 0.873 mW/g

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

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

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

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

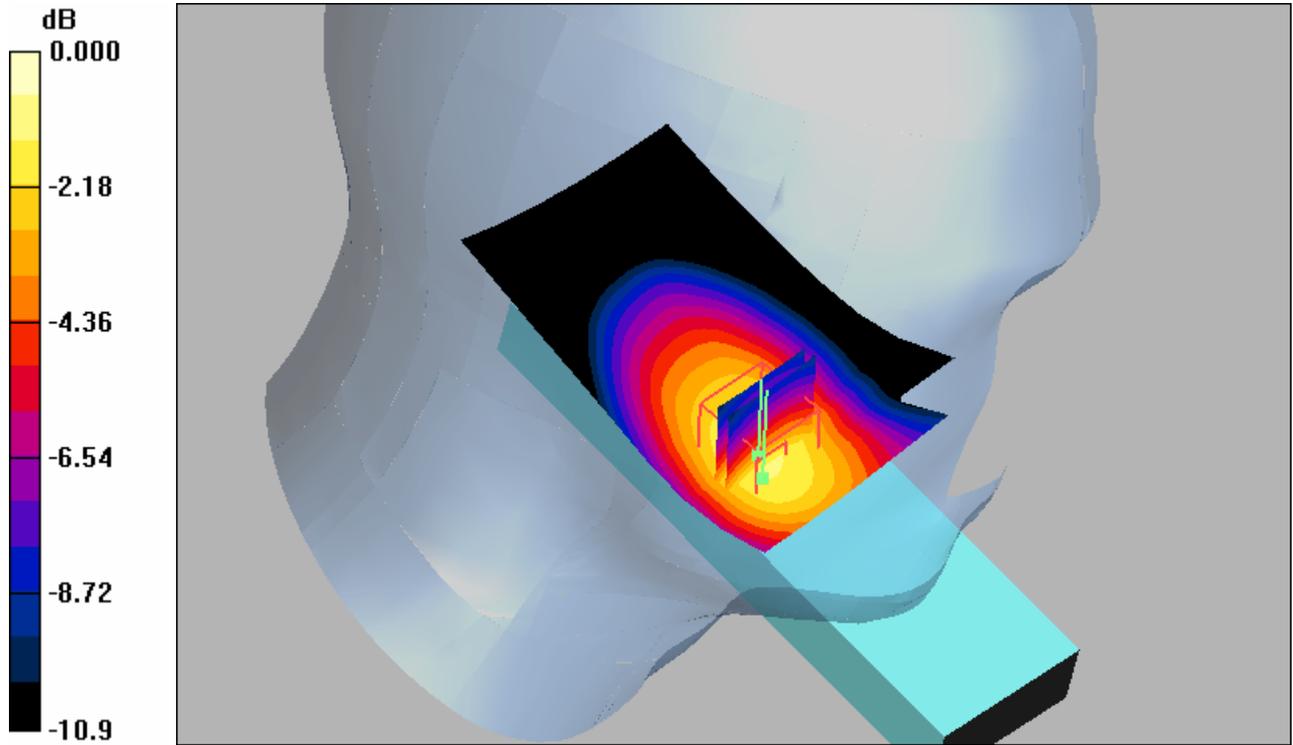
Reference Value = 10.9 V/m; Power Drift = -0.166 dB

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

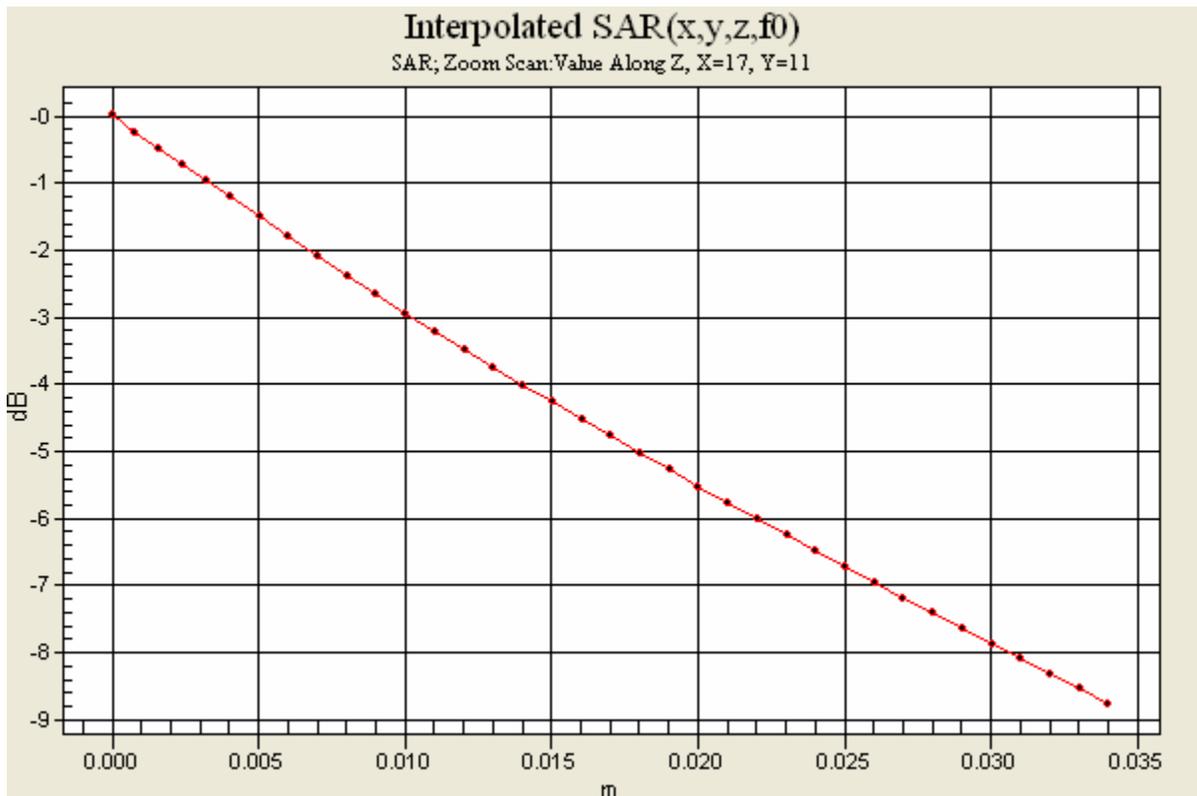
Maximum value of SAR (interpolated) = 1.75 mW/g



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0 dB = 1.75mW/g





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Band V UMTS: Distribution and Extrapolation of Maximum SAR

Model: Z750a with Standard Battery: BST-33, Left Tilt Position.

Date/Time: 8/31/2007 1:36:42 PM

File Name: [31Aug07_Z750_B5WCDMA_9DGF_LT01.da4](#)

DUT: Z750

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

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

Medium parameters used (interpolated): $f = 846.4$ MHz; $\sigma = 0.91$ mho/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery BST-33 Humidity: 45.8 % Ambient Temp: 22 C Simulant Temp: 21.6 C

DASY4 Configuration:

- Probe: ET3DV6 - SN1586; ConvF(6.63, 6.63, 6.63); Calibrated: 5/23/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn369; Calibrated: 5/29/2007
- Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Unnamed procedure 3/Area Scan (51x81x1):

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

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

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

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

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

Reference Value = 14.1 V/m; Power Drift = -0.029 dB

Peak SAR (extrapolated) = 0.574 W/kg

SAR(1 g) = 0.457 mW/g; SAR(10 g) = 0.342 mW/g

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

Maximum value of SAR (measured) = 0.484 mW/g

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

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

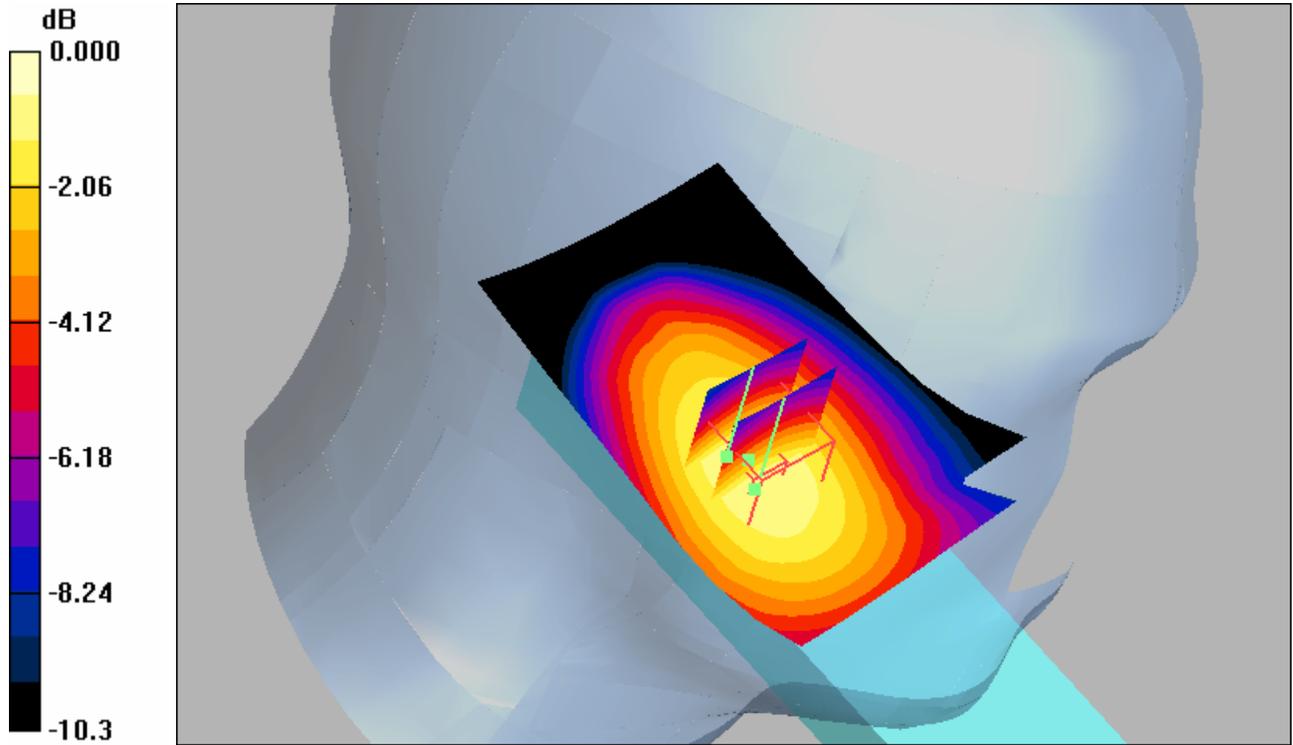
Reference Value = 14.1 V/m; Power Drift = -0.029 dB

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

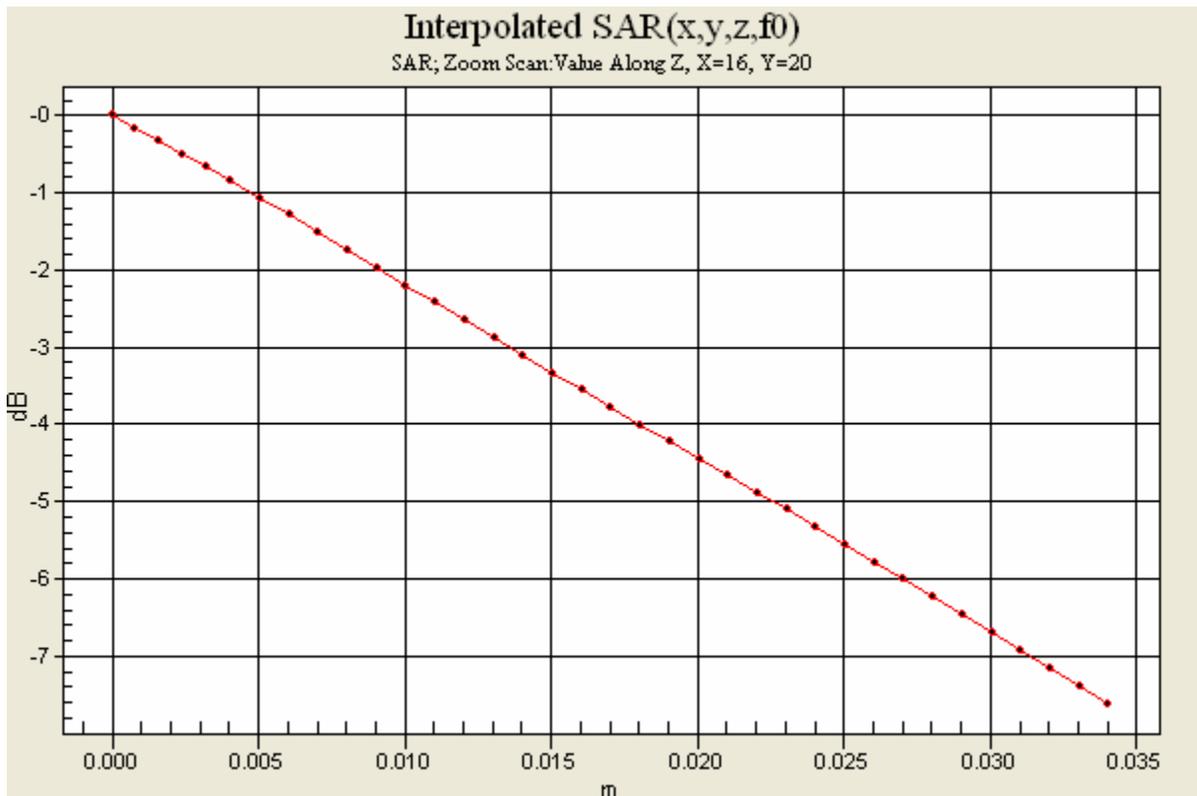
Maximum value of SAR (interpolated) = 0.574 mW/g



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0 dB = 0.574mW/g





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Band V UMTS: Distribution and Extrapolation of Maximum SAR

Model: Z750a with Standard Battery: BST-33, Right Cheek Position with Blue Tooth.

Date/Time: 8/31/2007 2:00:04 PM

File Name: [31Aug07_Z750_B5WCDMA_9DGF_BT_RC01.da4](#)

DUT: Z750

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): $f = 846.4$ MHz; $\sigma = 0.91$ mho/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery BST-33 Humidity: 46.5 % Ambient Temp: 21.6 C Simulant Temp: 21.4 C

DASY4 Configuration:

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

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

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

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

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

Unnamed procedure 3/Area Scan (51x81x1):

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

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

Maximum value of SAR (interpolated) = 1.34 mW/g

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

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

Reference Value = 13.7 V/m; Power Drift = 0.084 dB

Peak SAR (extrapolated) = 1.66 W/kg

SAR(1 g) = 1.24 mW/g; SAR(10 g) = 0.882 mW/g

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

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

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

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

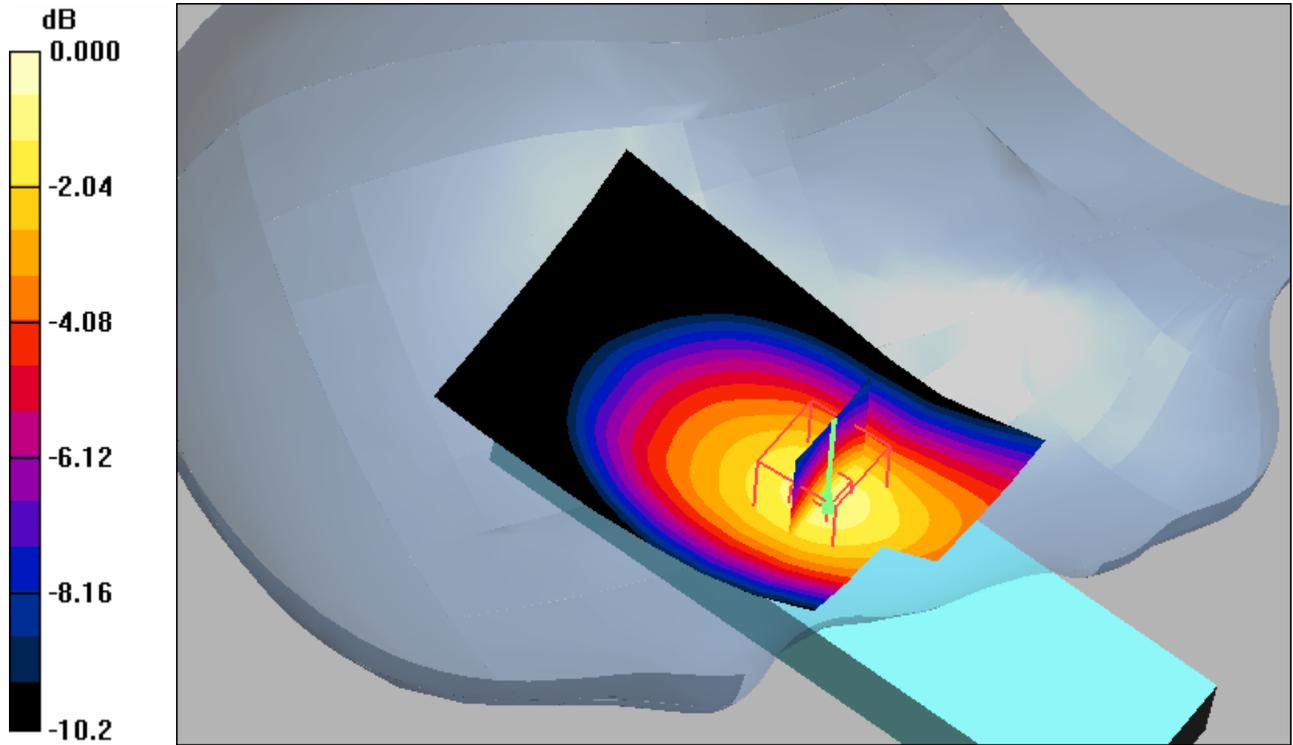
Reference Value = 13.7 V/m; Power Drift = 0.084 dB

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

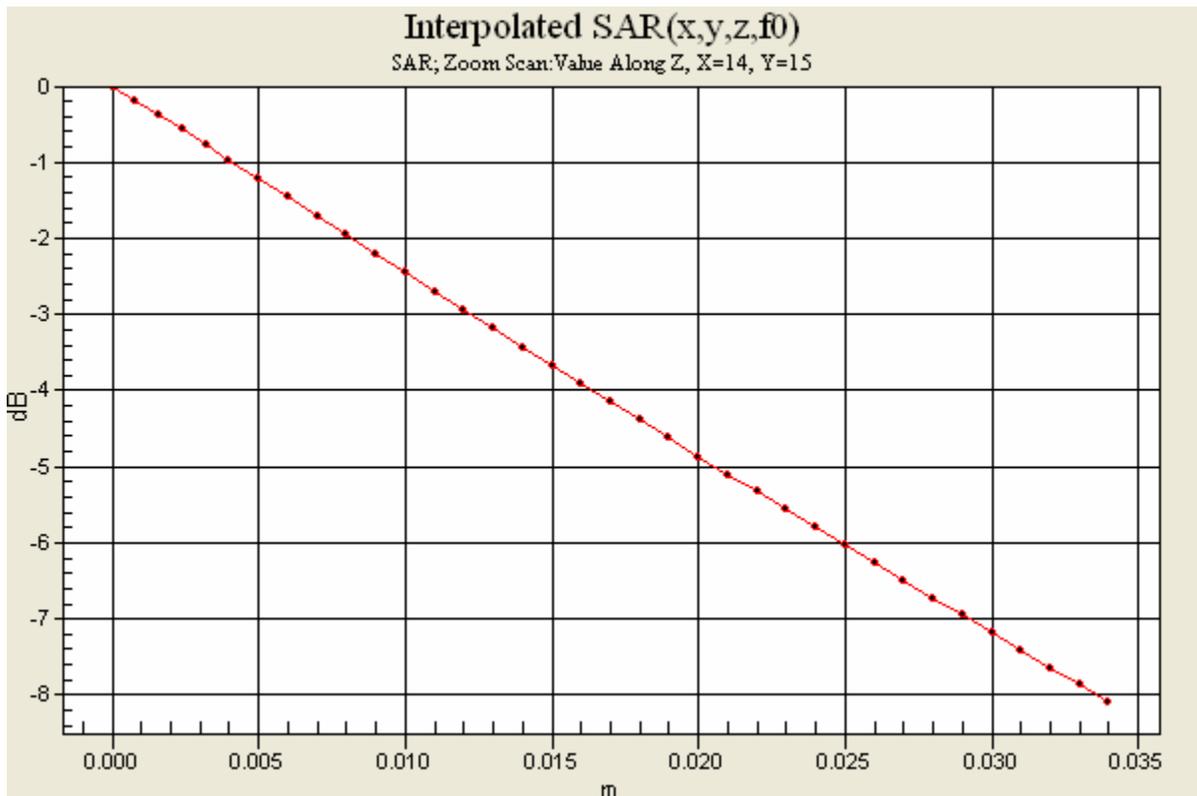
Maximum value of SAR (interpolated) = 1.66 mW/g



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0 dB = 1.66mW/g





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**Band II UMTS: Distribution and Extrapolation of Maximum SAR
Model: Z750a with Standard Battery: BST-33, Right Cheek Position.**

Date/Time: 9/4/2007 7:56:59 AM

File Name: [04Sept07_Z750_B2WCDMA_9DRR_RC01.da4](#)

DUT: Z750

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

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

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 - BST33 Humidity - 47.5 % Ambient Temp - 21.1 C Simulant Temp - 21.2 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

Unnamed procedure 2/Area Scan (51x81x1):

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

Maximum value of SAR (interpolated) = 1.20 mW/g

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

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

Reference Value = 10.0 V/m; Power Drift = -0.104 dB

Peak SAR (extrapolated) = 1.69 W/kg

SAR(1 g) = 1.13 mW/g; SAR(10 g) = 0.642 mW/g

Maximum value of SAR (measured) = 1.31 mW/g

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

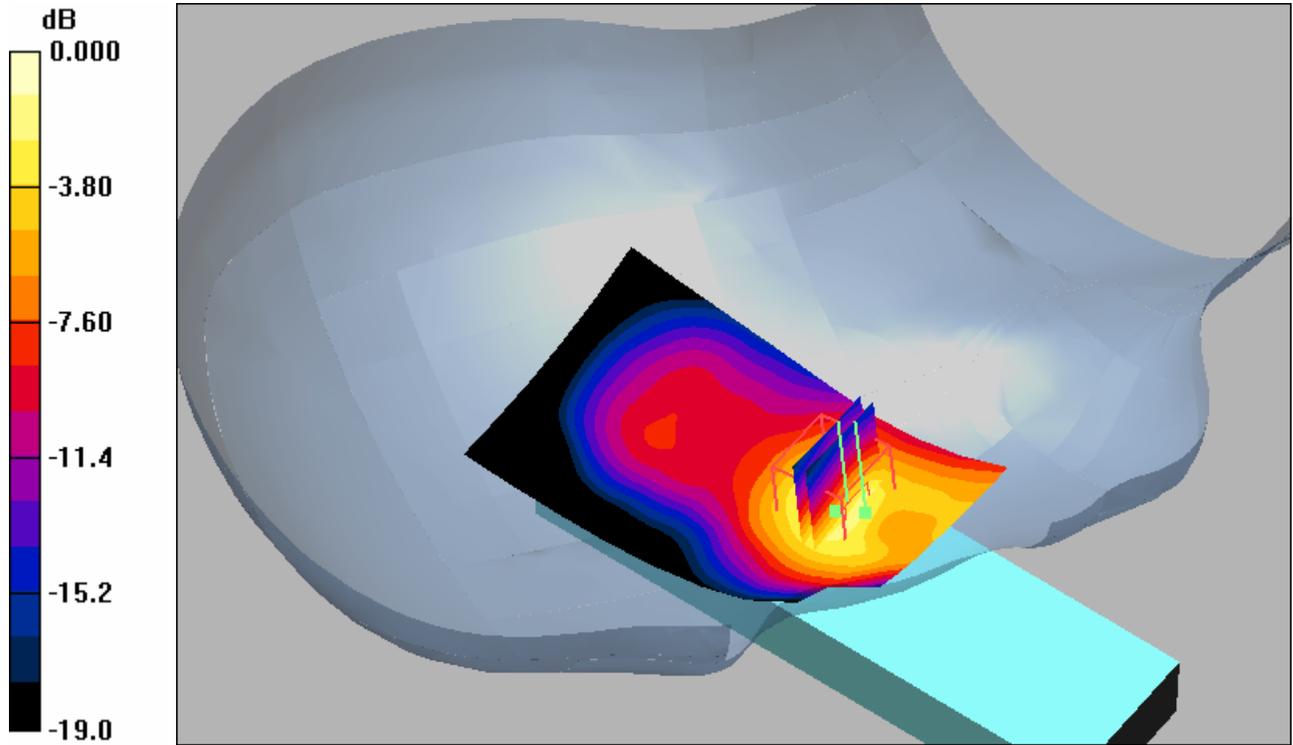
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.0 V/m; Power Drift = -0.104 dB

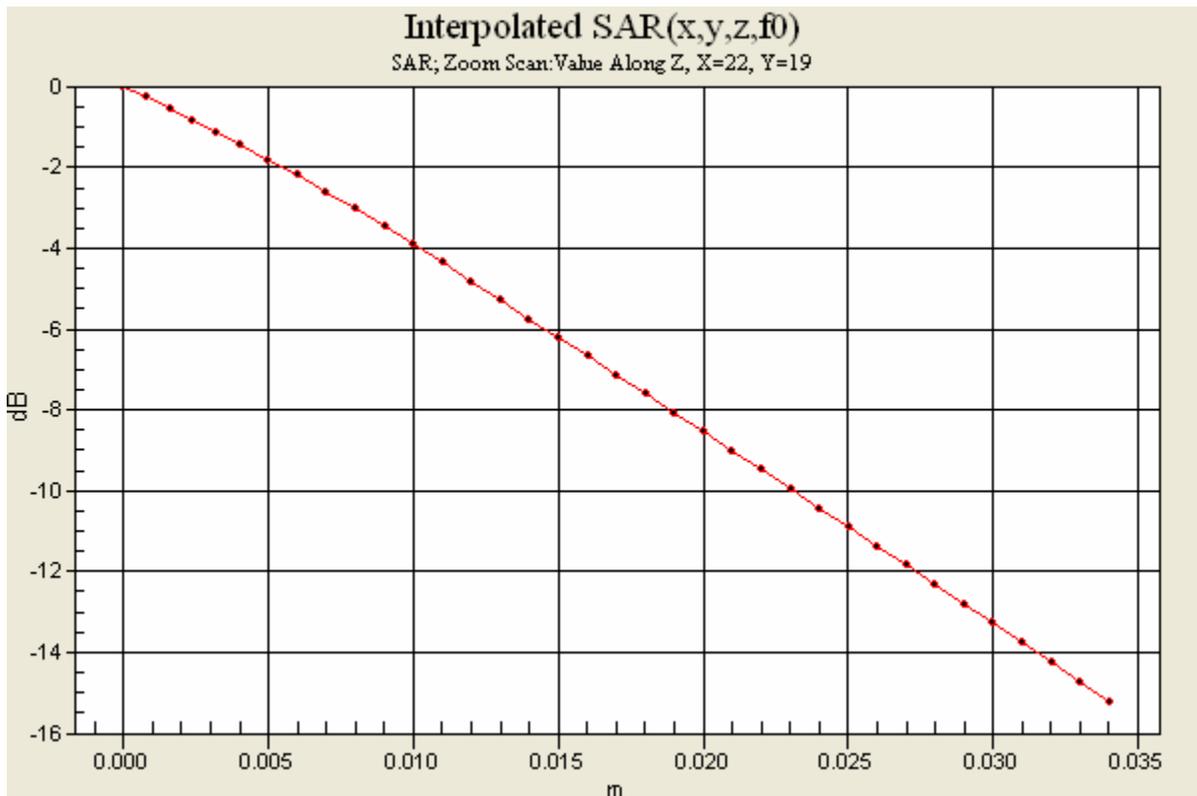
Maximum value of SAR (interpolated) = 1.69 mW/g



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
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0 dB = 1.69mW/g





Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
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Band II UMTS: Distribution and Extrapolation of Maximum SAR Model: Z750a with Standard Battery: BST-33, Right Tilt Position.

Date/Time: 9/4/2007 9:41:49 AM

File Name: [04Sept07_Z750_B2WCDMA_9DRR_RT01.da4](#)

DUT: Z750

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): $f = 1907.4$ MHz; $\sigma = 1.48$ mho/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery - BST33 Humidity - 48 % Ambient Temp - 21.1 C Simulant Temp - 21.2 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

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) = 0.308 mW/g

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

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

Reference Value = 12.2 V/m; Power Drift = 0.014 dB

Peak SAR (extrapolated) = 0.372 W/kg

SAR(1 g) = 0.266 mW/g; SAR(10 g) = 0.166 mW/g

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

Maximum value of SAR (measured) = 0.289 mW/g

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

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

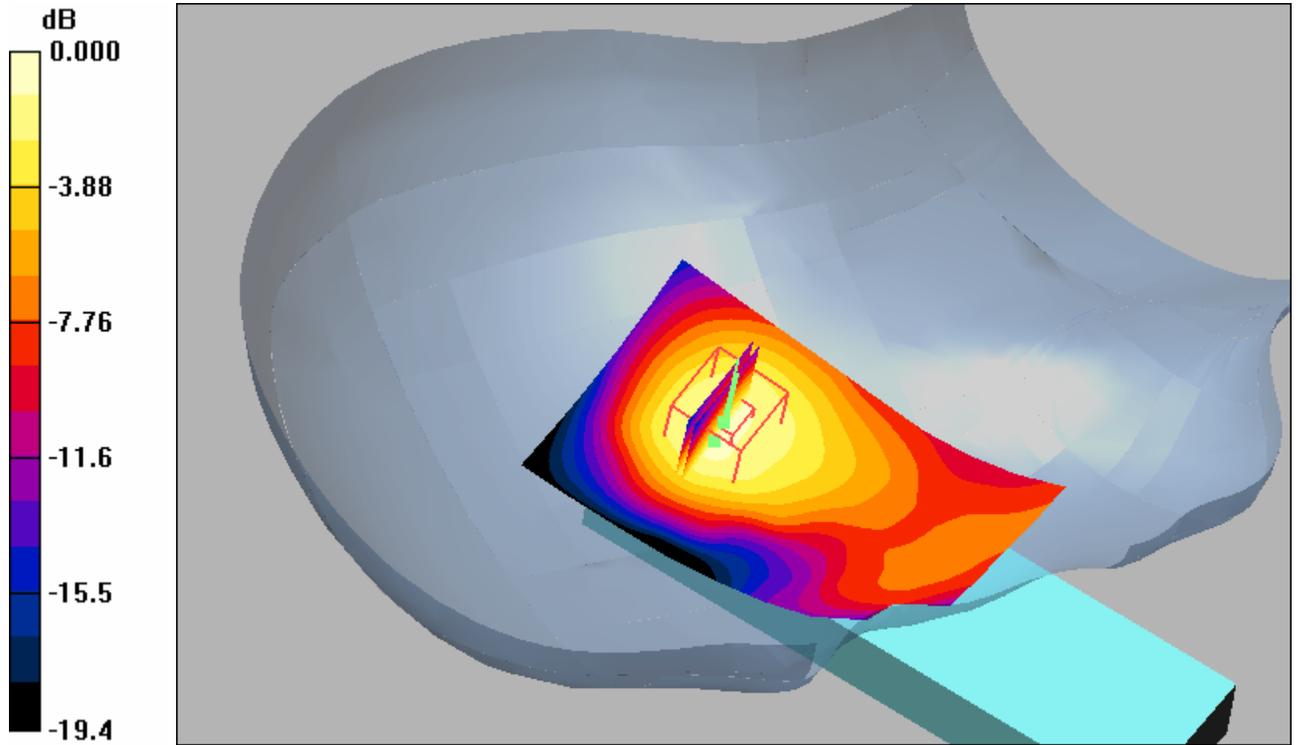
Reference Value = 12.2 V/m; Power Drift = 0.014 dB

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

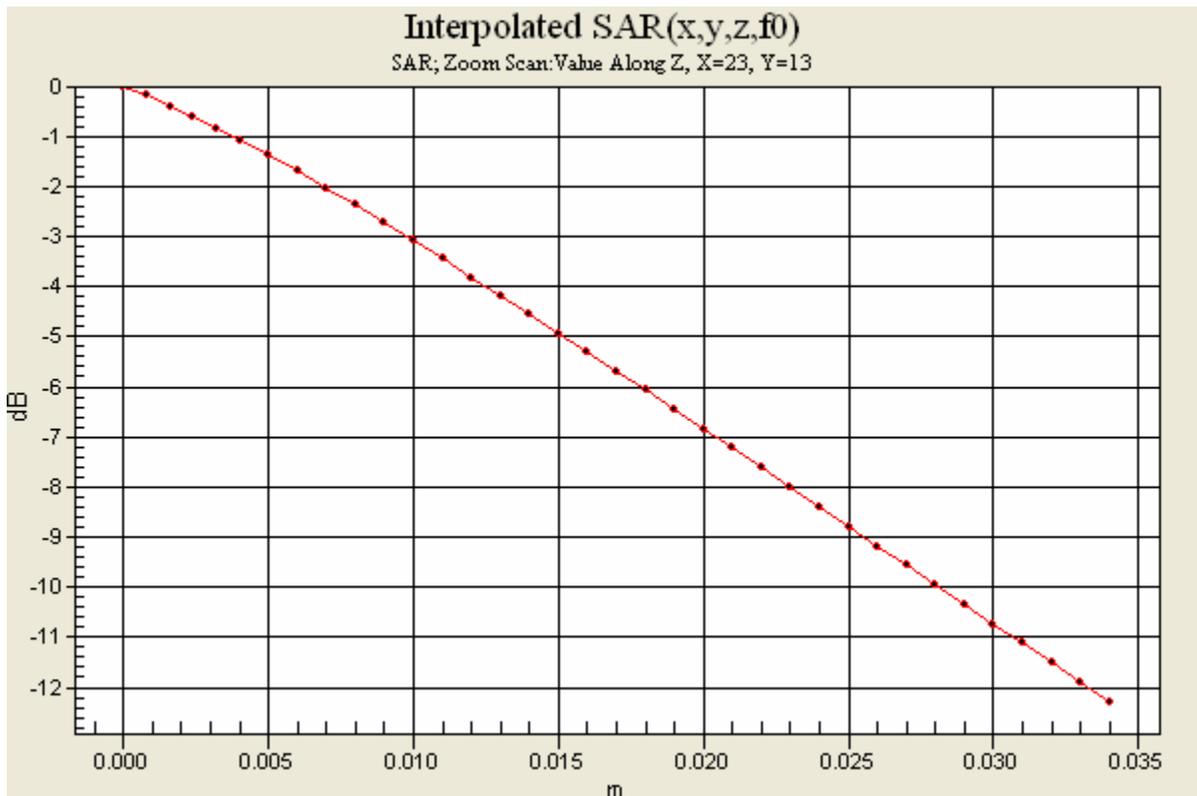
Maximum value of SAR (interpolated) = 0.372 mW/g



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
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0 dB = 0.372mW/g





Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked		B

Band II UMTS: Distribution and Extrapolation of Maximum SAR Model: Z750a with Standard Battery: BST-33, Left Cheek Position.

Date/Time: 9/4/2007 10:52:21 AM

File Name: [04Sept07_Z750_B2WCDMA_9DRR_LC01.da4](#)

DUT: Z750

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

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

Medium parameters used (interpolated): $f = 1907.4$ MHz; $\sigma = 1.48$ mho/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery - BST33 Humidity - 48.4 % Ambient Temp - 21.2 C Simulant Temp - 21.2 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

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) = 0.954 mW/g

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

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

Reference Value = 10.2 V/m; Power Drift = -0.151 dB

Peak SAR (extrapolated) = 1.64 W/kg

SAR(1 g) = 0.887 mW/g; SAR(10 g) = 0.487 mW/g

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

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

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

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

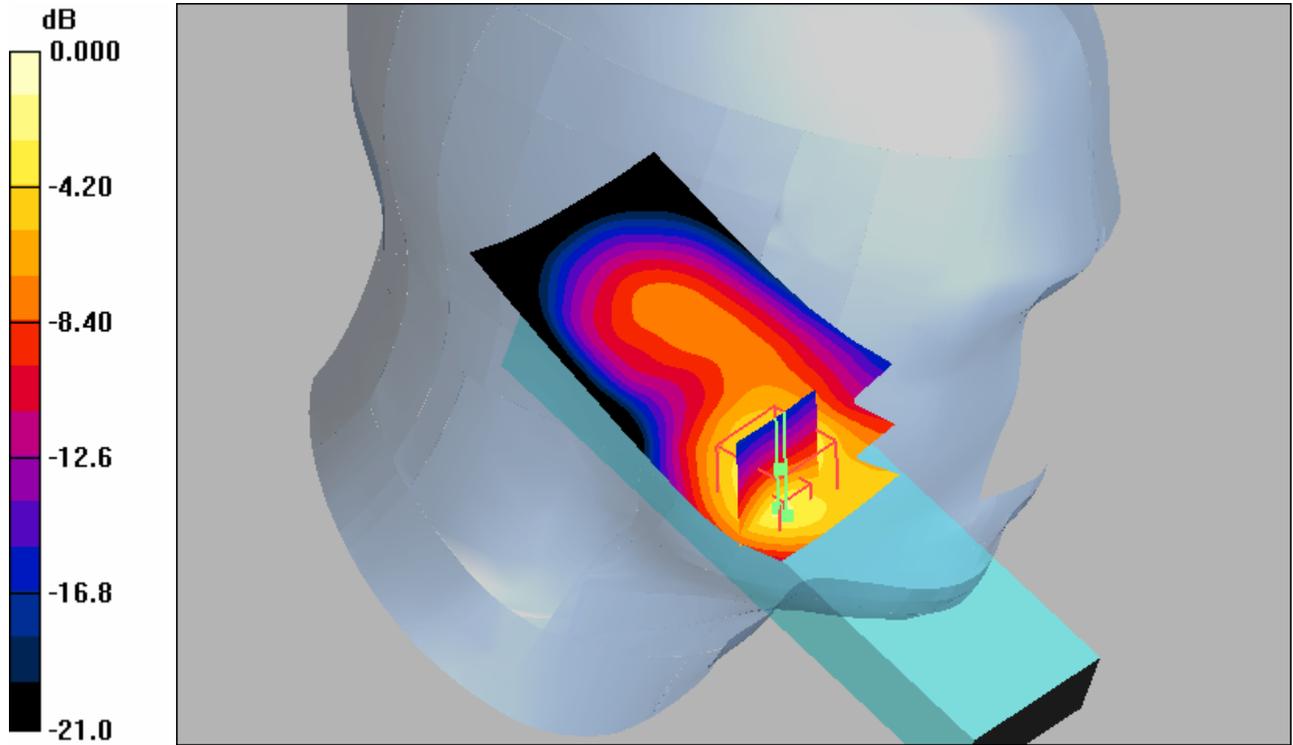
Reference Value = 10.2 V/m; Power Drift = -0.151 dB

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

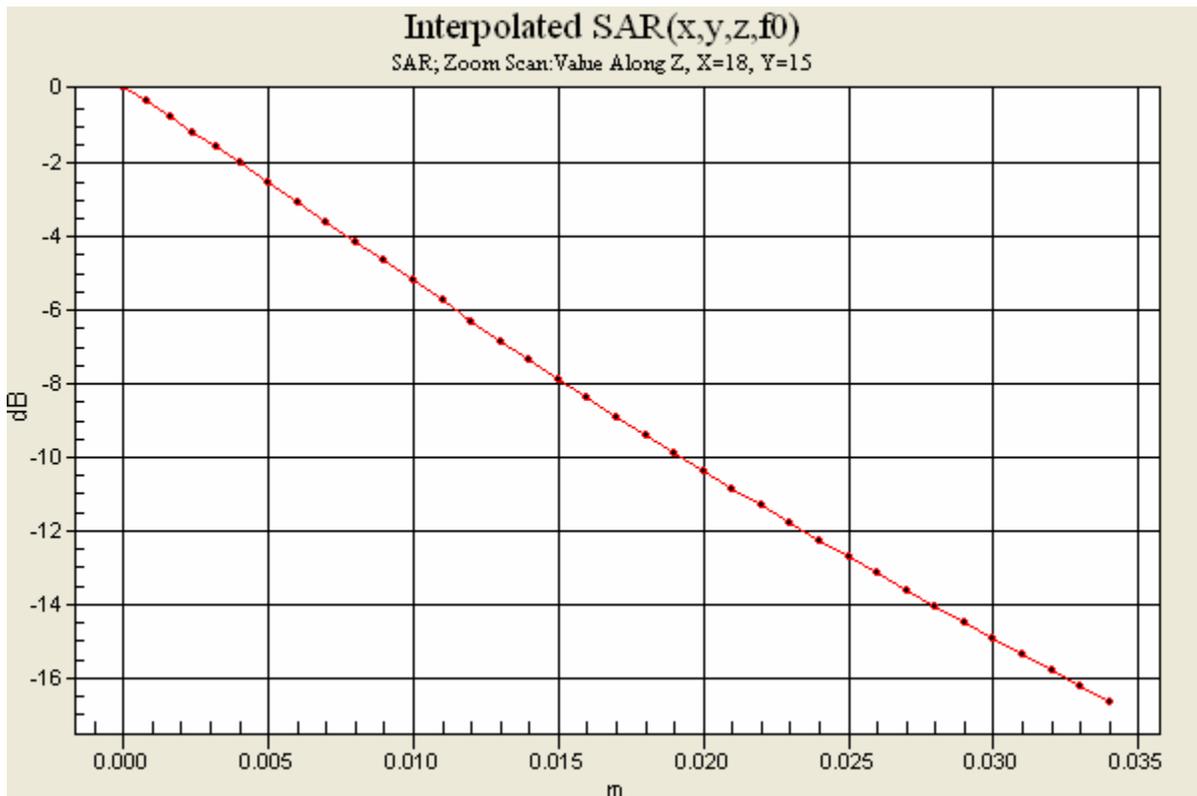
Maximum value of SAR (interpolated) = 1.64 mW/g



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
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0 dB = 1.64mW/g





Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked		B

Band II UMTS: Distribution and Extrapolation of Maximum SAR

Model: Z750a with Standard Battery: BST-33, Left Tilt Position.

Date/Time: 9/4/2007 11:34:56 AM

File Name: [04Sept07_Z750_B2WCDMA_9DRR_LT01.da4](#)

DUT: Z750

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

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

Medium parameters used (interpolated): $f = 1907.4$ MHz; $\sigma = 1.48$ mho/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

Program Notes: Battery - BST33 Humidity - 45.6 % Ambient Temp - 21.3 C Simulant Temp - 21.2 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

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) = 0.384 mW/g

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

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

Reference Value = 13.7 V/m; Power Drift = -0.013 dB

Peak SAR (extrapolated) = 0.468 W/kg

SAR(1 g) = 0.326 mW/g; SAR(10 g) = 0.199 mW/g

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

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

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

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

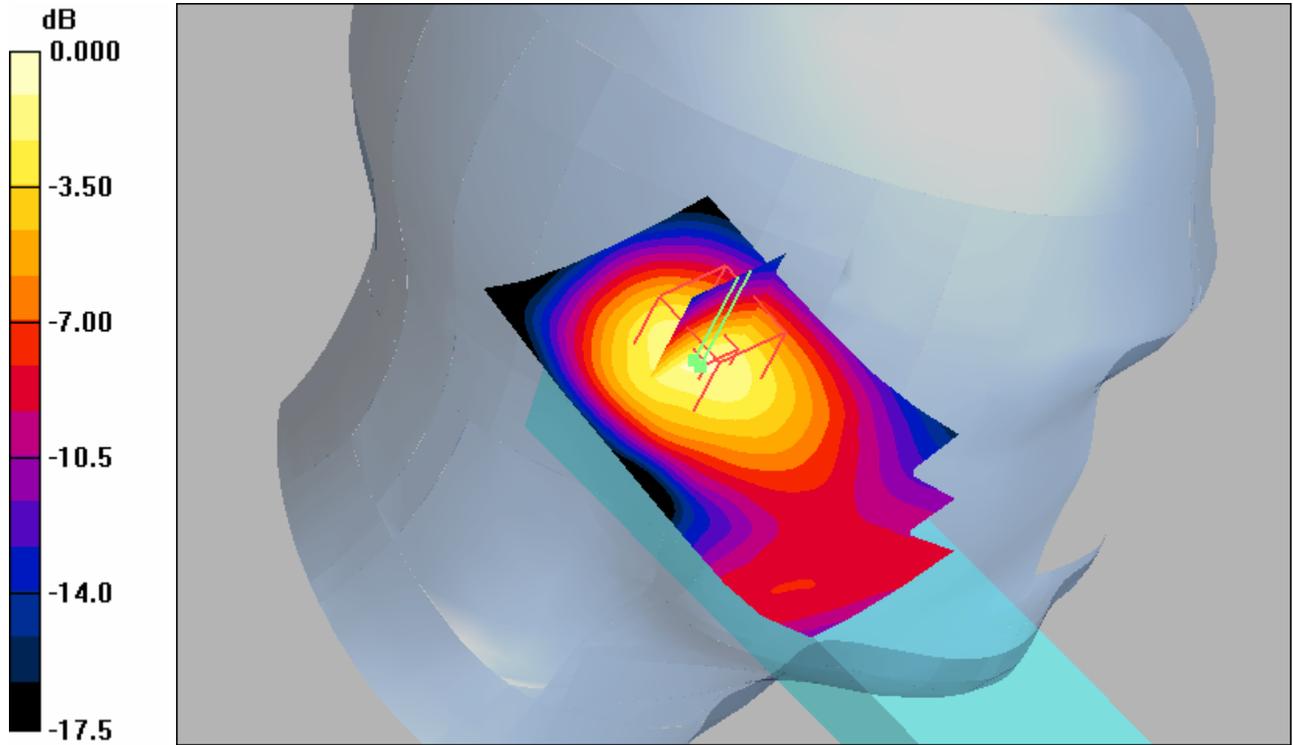
Reference Value = 13.7 V/m; Power Drift = -0.013 dB

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

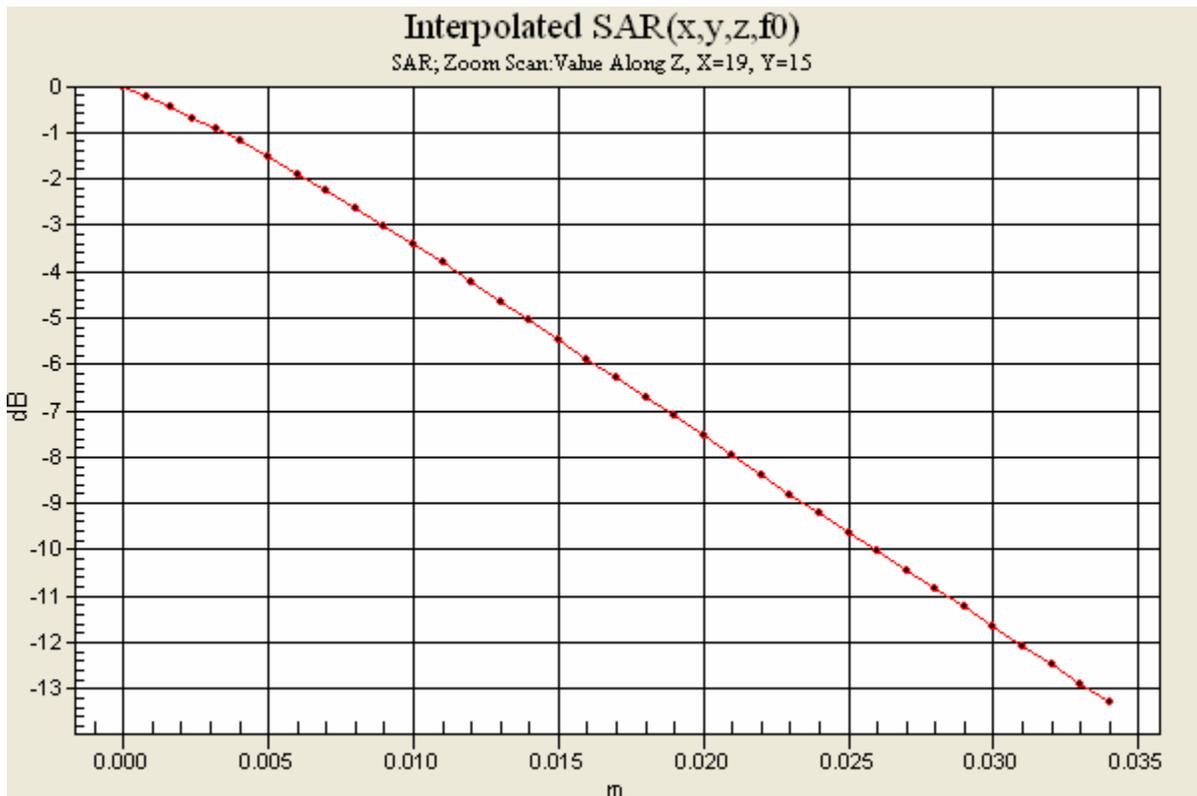
Maximum value of SAR (interpolated) = 0.468 mW/g



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked		B



0 dB = 0.468mW/g





Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked		B

Band II UMTS: Distribution and Extrapolation of Maximum SAR

Model: Z750a with Standard Battery: BST-33, Right Cheek Position with Blue Tooth.

Date/Time: 9/4/2007 12:51:19 PM

File Name: [04Sept07_Z750_B2WCDMA_9DRR_BT_RC01.da4](#)

DUT: Z750

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

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

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 - BST33 Humidity - 47.5 % Ambient Temp - 21.1 C Simulant Temp - 21.2 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

Unnamed procedure 2/Area Scan (51x81x1):

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

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

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

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

Reference Value = 10.3 V/m; Power Drift = -0.094 dB

Peak SAR (extrapolated) = 1.80 W/kg

SAR(1 g) = 1.17 mW/g; SAR(10 g) = 0.660 mW/g

Maximum value of SAR (measured) = 1.35 mW/g

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

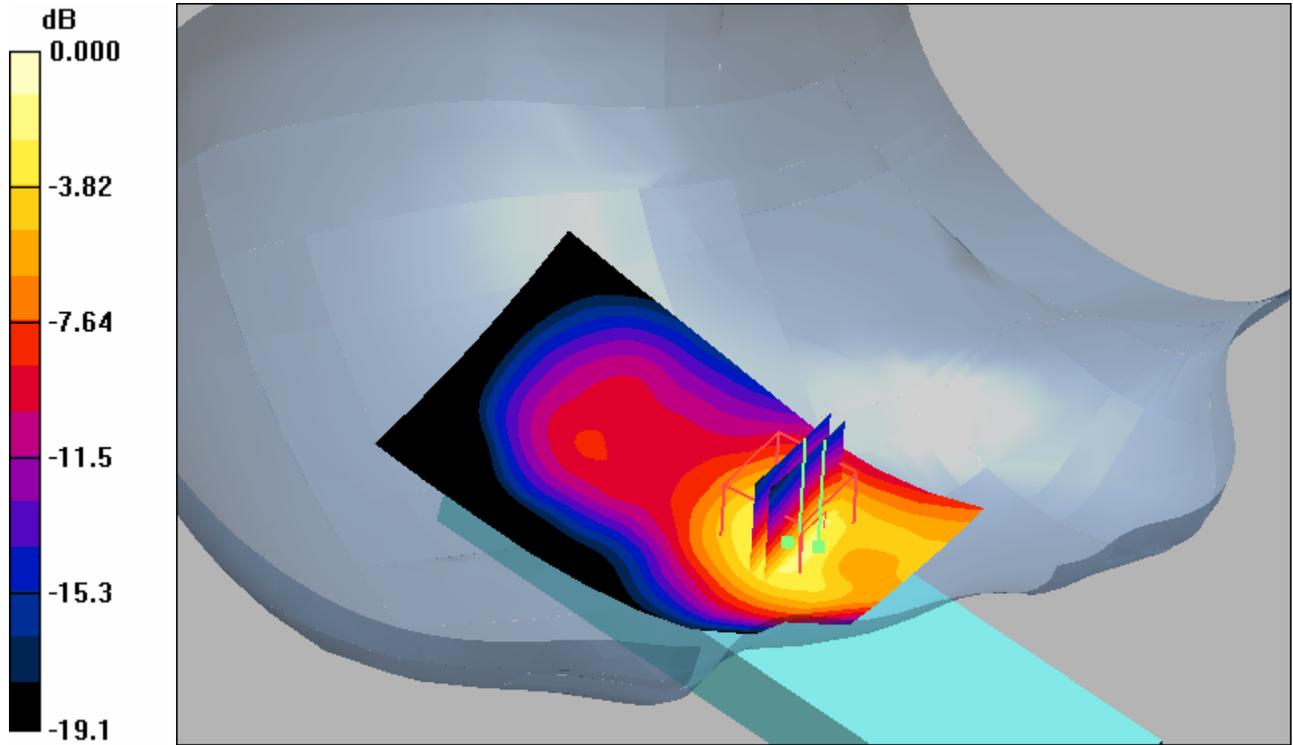
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.3 V/m; Power Drift = -0.094 dB

Maximum value of SAR (interpolated) = 1.80 mW/g



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2007 004 Z750a 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked		B



0 dB = 1.80mW/g

