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Exhibit 11: SAR Test Report of Portable Cellular Phone FCC ID: PY7AC052012 Model : Z520a

Date of test: August 24 - August 28, 2005
Date of Report: September 6, 2005

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

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

Test Responsible: Gerard Hayes *Gerard Hayes 06 September 2005*
 Consulting Engineer, Antenna/RF Development Group

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

On the following types of products:
 Wireless communications devices. A2LA certificate #1650-01

Statement of Compliance: Sony Ericsson Mobile Communications, Inc declares under its sole responsibility that portable cellular telephone FCC ID PY7AC052012 model Z520a 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 PY7AC052012 model Z520a. 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- Type Antenna	
Location	External plastic loop, near the hinge	
Dimensions	Width	40 mm
	Length	30 mm
	Height	8mm

2.2 Device description

FCC ID Number / Device Model	PY7AC052012 / Z520a			
Serial number	BD30246HHE		BD30246HHE	
Mode(s) of Operation	GSM 800		GSM 1900	
Modulation Mode(s)	TDMA		TDMA	
Target Value and Factory Tolerance Window for Maximum Output Power Setting	f_{low}	32.2 dBm +0.4/ -1.2 dB	f_{low}	30.0 dBm +0.5/ -1.5 dB
	f_{mid}	31.7 dBm +0.4/ -0.7 dB	f_{mid}	30.0 dBm +0.5/ -1.5 dB
	f_{high}	31.7 dBm +0.3/ -0.7 dB	f_{high}	30.0 dBm +0.5/ -1.5 dB
GSM Mode: 1/8 Duty Cycle	f_{low}	32.2 max	f_{low}	Same as GSM 1:8
	f_{mid}	31.6 max	f_{mid}	Same as GSM 1:8
	f_{high}	31.2 ±0.3	f_{high}	Same as GSM 1:8
GPRS Mode: 2/8 Duty Cycle	Target Maximum Output Power Setting (adjusted from GSM mode)			
	f_{low}	32.2 max	f_{low}	Same as GSM 1:8
	f_{mid}	31.6 max	f_{mid}	Same as GSM 1:8
Calibration Frequency (f_{low}, f_{mid}, f_{high})	f_{high}		f_{mid}	
Transmitting Frequency Rang(s)	824-849 MHz		1850-1910 MHz	
Production Unit or Identical Prototype (47 CFR §2.908)	Identical Prototype			
Device Category	Portable			
RF Exposure Limits	General Population / Uncontrolled			



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3. Test Equipment Used

3.1 Dosimetric System

The Sony Ericsson SAR Laboratory utilizes Dosimetric Assessment Systems (Dasy3™ v3.1d for body-worn measurements and Dasy4™ for adjacent to head measurements) manufactured by Schmid & Partner Engineering AG (SPEAG™), of Zurich Switzerland. The overall RSS uncertainty of the measurement system is ±10.77% (K=1) with an expanded uncertainty of ±21.55% (K=2) for Dasy3™ v3.1d and ±9.49% (K=1) with an expanded uncertainty of ±18.74% (K=2) for Dasy4™. The measurement uncertainty budget is given in Appendix 5 for both systems. The list of calibrated equipment used for the measurements is shown in the following table.

Description	Serial Number	Cal Due Date
DASY3 DAE V1	345	12-Nov-2005
DASY3 DAE V1	417	11-Nov-2005
E-Field Probe ETDV6	1586	26-May-2006
E-Field Probe ETDV6	1587	26-May-2006
Dipole Validation Kit, DV835V2	438	24-May-2006
Dipole Validation Kit, DV900V2	035	24-May-2006
Dipole Validation Kit, DV1800V2	238	11-May-2006
Dipole Validation Kit, DV1900V2	536	19-May-2006
S.A.M. Phantom used for 835MHz (Head)	1251	
S.A.M. Phantom used for 835MHz (Body)	1031	
S.A.M. Phantom used for 900MHz (Head and Body)	1251	
S.A.M. Phantom used for 1800MHz (Head and Body)	1335	
S.A.M. Phantom used for 1900MHz (Head)	1335	
S.A.M. Phantom used for 1900MHz (Body)	1020	

3.2 Additional Equipment

Description	Serial Number	Cal Due Date
Signal Generator HP8648C	3537A01598	August 30, 2006
Power Meter 437B	3125U16382	December 8, 2005
Power Meter 437B	3125U13729	January 6, 2006
Power Sensor - 8482H	MY41090240	April 29, 2006
Power Sensor - 8482H	MY41090239	April 29, 2006
Dielectric Probe Kit HP85070B	US33020390	July 4, 2006
Digital Thermometer 61220-601 And Probe (61220-604)	350078	November 5, 2005
Digital Hygrometer/ Thermometer	21242911	November 3, 2005
HP RF Amplifier 8347A	3307A1069	May 4, 2006



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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 22.2-24.1°C, the relative humidity was 45.4%- 53.9 %, and the liquid depth above the ear reference points was more than 15.0 cm for 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	Measured, 26-Aug-05	41.91	.913	22.6
		Recommended Limits	41.50	0.90	20-25
	Body	Measured, 27-Aug-05	54.21	1.003	22.3
		Recommended Limits	55.20	0.97	20-25
835	Head	Measured, 28-Aug-05	40.2	.877	22.2
		Recommended Limits	41.50	0.90	20-25
1900	Head	Measured, 25-Aug-05	38.26	1.469	22
		Recommended Limits	40.00	1.40	20-25
	Body	Measured, 24-Aug-05	51.04	1.507	22.5
		Recommended Limits	53.30	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	1800/1900 MHz Head	1900MHz Body
	900MHz Body	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 DASY3 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 and 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 these tests, the ambient temperature of the laboratory was in the range 22.2-23.7 °C, the relative humidity was in the range 40.7 – 51.5 % and the liquid depth above the ear reference points was above 15.0 cm in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values. The SAR distributions are shown in Appendix 1.

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 0.000232 W/kg, which is below the recommended limit in [1].

f (MHz)	Tissue Type	Description	SAR (W/kg) 1g / 10g		Dielectric Parameters		Tissue Temp (°C)
					e _r	s (S/m)	
835	Head	Measured, 26-Aug-05	9.6	6.1	41.91	.913	22.6
		Recommended Limits	9.50	6.20	41.50	0.90	20-25
	Body	Measured, 27-Aug-05	10	6.5	54.21	1.003	22.3
		Recommended Limits	9.90	6.46	55.20	0.97	20-25
835	Head	Measured, 28-Aug-05	9.8	6.3	40.2	.877	22.2
		Recommended Limits	9.50	6.20	41.50	0.90	20-25
1900	Head	Measured, 25-Aug-05	40.3	21.1	38.26	1.469	22
		Recommended Limits	39.70	20.50	40.00	1.40	20-25
	Body	Measured, 24-Aug-05	43.2	22.2	51.04	1.507	22.5
		Recommended Limits	40.50	20.89	53.30	1.52	20-25



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6. Test Results

For head measurements (with a 1/8 GSM duty cycle), the sample was operated using test software that allows the control of the transmitter. For body measurements (2/8 EGPRS duty cycle), the test sample was operated using a base station simulator that allows control of the transmitter using the signally software that installed on the phone call. 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 DAS Y 3.1d SAR measurement system.

The Cellular Phone FCC ID PY7AC052012 has the following battery option:
BKB 193 203 (BST-37) Standard Lithium Polymer Battery

The phone was placed in the SAR measurement system with a fully charged battery.

6.1 Head Adjacent Test Results

The SAR results shown in Tables 1 and 2 are maximum SAR values averaged over 1 gram and 10 grams of phantom tissue. Also shown are the measured conducted output powers, the temperature of the test facility during the test, the temperature of the simulated tissue, the measured drift, and the extrapolated SAR. The extrapolated SAR corresponds to the measured SAR scaled to the maximum conducted output power.

The humidity and ambient temperature of the test facility were in the ranges 39.4 – 54.6 % and 20.6 -24.0°C, respectively. The SAR measurements were performed using the SAM phantoms listed in section 3.1.

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

Summary of Maximum Extrapolated SAR Results : Head Adjacent			
Frequency	Extrapolated SAR (W/kg)		Test Configuration
	1 g	10 g	
800 GSM	1.474	0.937	Left head, cheek/touch position, 824 MHz BST-37 battery
1900 GSM	0.818	0.407	Right head, cheek/touch position, 1880 MHz BST-37 battery



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f (MHz)	Channel/ frequency	Conducted Output Power (dBm) GSM 1:8 Duty Cycle	FCC ID PYAF031012 with Standard Battery BST-37						
			Left Head (Cheek / Touch Position)					Ambi ent Temp (°C)	Simulate Temp (°C)
			Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g			
800 GSM	128 / 824	32.5	1.440	0.916		-0.13	1.474	0.937	23.7
	189 / 837	32.0	1.430	0.906	0.05	1.463	0.927	23.7	22.6
	251 / 849	31.9	1.200	0.752	-0.03	1.228	0.770	23.7	22.6
Bluetooth on	128 / 824	32.5	1.440	0.915	-0.11	1.474	0.936	22.5	23.1
1900 GSM	512 / 1850	30.4	0.515	0.265	-0.10	0.527	0.271	22.2	22.0
	660/1880	30.3	0.523	0.264	-0.01	0.535	0.270	22.2	22.0
	810/1910	30.3	0.491	0.246	-0.16	0.502	0.252	22.2	22.0
f (MHz)	Channel/ frequency	Conducted Output Power (dBm) GSM 1:8 Duty Cycle	FCC ID PYAF031012 with Standard Battery BST-37						
			Left Head (15° Tilt Position)					Ambi ent Temp (°C)	Simulate Temp (°C)
			Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g			
800 GSM	128 / 824	32.5	0.361	0.264		-0.14	0.369	0.270	24
	189 / 837	32.0	0.317	0.231	-0.03	0.324	0.236	24	23.2
	251 / 849	31.9	0.296	0.215	-0.15	0.303	0.220	24	23.2
1900 GSM	512 / 1850	30.4	0.118	0.073	-0.10	0.121	0.075	21.2	21.1
	660/1880	30.3	0.128	0.079	-0.07	0.131	0.081	21.2	21.1
	810/1910	30.3	0.130	0.080	-0.13	0.133	0.082	21.2	21.1

Table 1: SAR measurement results for the portable cellular telephone FCC ID PY7AC052012 model Z520a at maximum output power with Standard Battery BST-37. Measured against the left head.



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f (MHz)	Channel/ frequency	Conducted Output Power (dBm) GSM 1:8 Duty Cycle	FCC ID PYAF031012 with Standard Battery BST-37						
			Right Head (Cheek / Touch Position)					Ambi ent Temp (°C)	Simulate Temp (°C)
			Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g			
800 GSM	128 / 824	32.5	1.410	0.914		-0.06	1.443	0.935	22.6
	189 / 837	32.0	1.240	0.800	0.09	1.269	0.819	22.6	22.2
	251 / 849	31.9	1.070	0.687	-0.05	1.095	0.703	22.6	22.2
1900 GSM	512 / 1850	30.4	0.742	0.373	0.01	0.759	0.382	20.6	20.6
	660/1880	30.3	0.799	0.398	-0.02	0.818	0.407	20.6	20.6
	810/1910	30.3	0.704	0.346	-0.18	0.720	0.354	20.6	20.6
Bluetooth On	660/1880	30.3	0.787	0.389	-0.10	0.805	0.398	21.5	20.5
f (MHz)	Channel/ frequency	Conducted Output Power (dBm) GSM 1:8 Duty Cycle	FCC ID PYAF031012 with Standard Battery BST-37						
			Right Head (15° Tilt Position)					Ambi ent Temp (°C)	Simulate Temp (°C)
			Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g			
800 GSM	128 / 824	32.5	0.335	0.247		-0.07	0.343	0.253	22.4
	189 / 837	32.0	0.294	0.216	0.00	0.301	0.221	22.4	22.1
	251 / 849	31.9	0.268	0.197	-0.05	0.274	0.202	22.4	22.1
1900 GSM	512 / 1850	30.4	0.138	0.085	-0.05	0.141	0.087	21.3	20.7
	660/1880	30.3	0.166	0.102	-0.06	0.170	0.104	21.3	20.7
	810/1910	30.3	0.144	0.087	-0.116	0.147	0.089	21.3	20.7

Table 2: SAR measurement results for the portable cellular telephone FCC ID PY7AC052012 model Z520a at maximum output power with Standard Battery BST-37. Measured against the right head.



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6.2 Body-Worn Test Results

The SAR results shown in Table 3 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. The humidity and ambient temperature of the test facility were in the ranges 41.1– 51.5 % and 21.6-23.8°C, respectively.

A “flat” phantom was used for the body-worn tests. This “flat” phantom corresponds to the flat portion of the SAM phantom. The tissue stimulant depth above the ear canal was verified to be above 15.0 cm in all the measurements. 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 accessory was tested for this phone: 20 mm spacer

A full data set output of the test conditions with the highest SAR values from the DASY™ measurement system 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.

Summary of Maximum Extrapolated SAR Results: Body-worn			
Frequency	Extrapolated SAR (W/kg)		Test Configuration
	1 g	10 g	
800 GSM	1.484	1.043	20MM SPACER Carry Accessory, back of phone facing body, 849 MHz, 2:8 Duty Cycle, BST-37 battery, Bluetooth on
1900 GSM	0.395	0.243	20MM SPACER Carry Accessory, front of phone facing body, 1850MHz, 2:8 Duty Cycle BST-37 battery, Bluetooth on



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f (MHz)	Operating Condition	Channel/frequency	Conducted Output Power (dBm)	FCC ID PYAF031012 with Standard Battery BST-37							
				Body Worn				Carry Accessory: 20MM SPACER			
				Back of phone facing body							
				Measured (W/kg) 1g / 10g	Drift (dB)	Extrapolated (W/kg) 1g / 10g	Ambient Temp (°C)	Simulate Temp (°C)			
Back of phone facing body											
800 GSM	2:8 Duty Cycle	128 / 824	32.0	1.390	0.963	-0.02	1.456	1.008	22.2	22.3	
		189 / 837	31.4	1.160	0.793	-0.04	1.215	0.830	22.2	22.3	
		251 / 849	31.4	0.893	0.608	-0.07	0.935	0.637	22.2	22.3	
	Bluetooth On	128 / 824	32.0	1.450	0.996	0.02	1.484	1.043	21.8	21.8	
	1:8 Duty Cycle	128 / 824	32.5	0.679	0.476	-0.04	0.695	0.498	21.8	21.8	
1900 GSM	2:8 Duty Cycle	512 / 1850	30.4	0.331	0.206	-0.05	0.339	0.211	22.6	22.2	
		660/1880	30.3	0.360	0.216	0.04	0.368	0.221	22.6	22.2	
		810/1910	30.3	0.357	0.213	-0.09	0.365	0.218	22.6	22.2	
Front of phone facing body											
800 GSM	2:8 Duty Cycle	128 / 824	32.0	0.466	0.333	0.06	0.488	0.349	21.6	21.9	
		189 / 837	31.4	0.399	0.283	-0.13	0.418	0.296	21.6	21.9	
		251 / 849	31.3	0.287	0.204	-0.03	0.301	0.214	21.6	21.9	
1900 GSM	2:8 Duty Cycle	512 / 1850	30.4	0.326	0.204	-0.13	0.334	0.209	22.5	22.5	
		660/1880	30.3	0.328	0.203	-0.04	0.336	0.208	22.5	22.5	
		810/1910	30.3	0.386	0.237	-0.14	0.395	0.243	22.5	22.5	
	Bluetooth On	810/1910	30.3	0.359	0.217	-0.10	0.367	0.222	23.1	22.9	
	1:8 Duty Cycle	810/1910	30.3	0.177	0.109	-0.02	0.181	0.112	23.1	22.9	

Table 3: SAR measurement results for the portable cellular telephone FCC ID PY7AC052012 model Z520a at maximum output power with Standard Battery BST-37. Measured against the body with carry accessory 20MM Spacer.



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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.



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Appendix 1

SAR distribution comparison for the system accuracy verification



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**835 MHz SAR Distribution of Validation Dipole Antenna
System Performance Check on August 26, 2005 (Using head tissue).**

Validation_835Head_438_1251_26Aug05_T01

File Name: [Validation_835Head_438_1251_26Aug05_T01.da4](#)

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

Probe: ET3DV6 - SN1586ConvF(6.58, 6.58, 6.58) Duty Cycle: 1:1 Frequency: 835 MHz

Medium parameters used: f = 835 MHz; s = 0.913 mho/m; $\epsilon_r = 41.9$; $\rho = 1000 \text{ kg/m}^3$

Measurement Standard: DASy4 (High Precision Assessment)

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

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

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

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

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

Reference Value = 36.0 V/m; Power Drift = -0.013 dB

Peak SAR (extrapolated) = 1.67 W/kg

SAR(1 g) = 1.02 mW/g; SAR(10 g) = 0.629 mW/g

Maximum value of SAR (measured) = 1.11 mW/g

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

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

Reference Value = 36.0 V/m; Power Drift = -0.013 dB

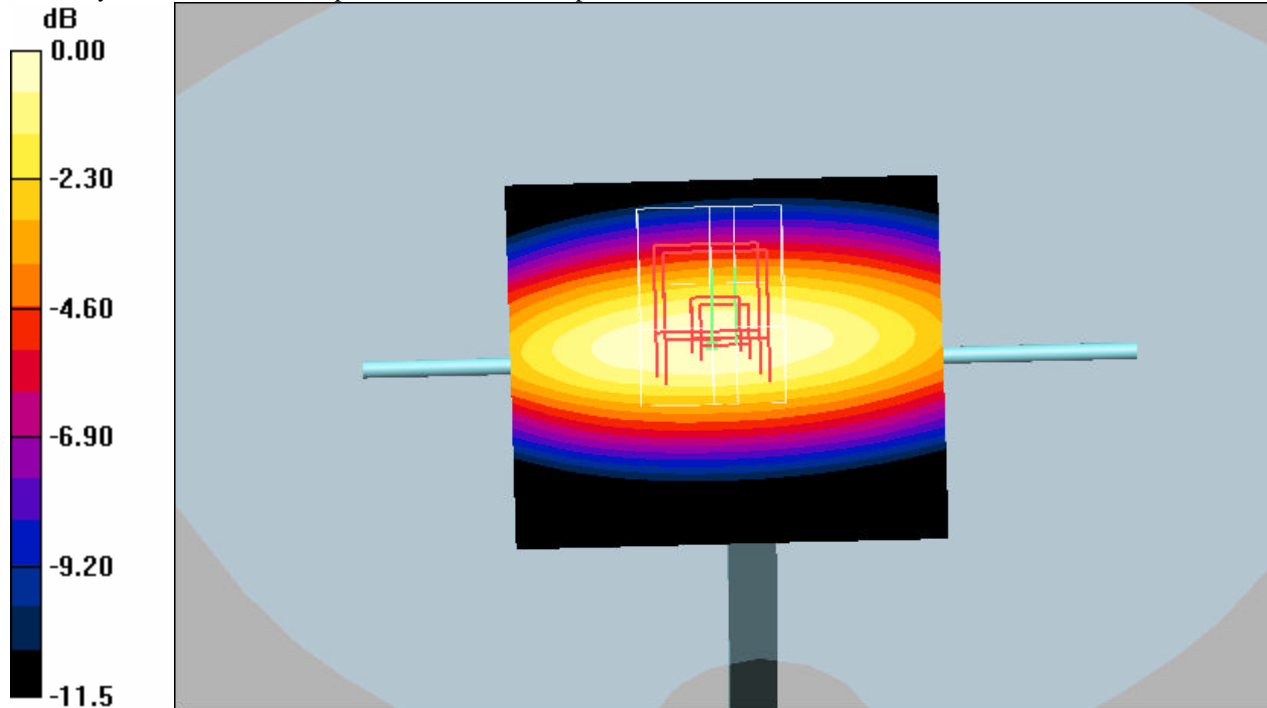
Peak SAR (extrapolated) = 1.61 W/kg

SAR(1 g) = 0.995 mW/g; SAR(10 g) = 0.614 mW/g

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

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

Humidity: 40.7% Ambient Temp: 23.7 C Simulant Temp: 22.6 C



0 dB = 1.06mW/g



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**835 MHz SAR Distribution of Validation Dipole Antenna
System Performance Check on August 28, 2005 (Using head tissue).
Validation_835Head_438_1251_28Aug05_T01**

File Name: [Validation_835Head_438_1251_28Aug05_T01.da4](#)

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

Probe: ET3DV6 - SN1586ConvF(6.58, 6.58, 6.58) Duty Cycle: 1:1 Frequency: 835 MHz

Medium parameters used: f = 835 MHz; s = 0.877 mho/m; $\epsilon_r = 40.2$; $\rho = 1000 \text{ kg/m}^3$

Measurement Standard: DAS4 (High Precision Assessment)

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

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

Maximum value of SAR (interpolated) = 0.951 mW/g

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

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

Reference Value = 34.0 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.32 W/kg

SAR(1 g) = 0.889 mW/g; SAR(10 g) = 0.579 mW/g

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

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

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

Reference Value = 34.0 V/m; Power Drift = -0.01 dB

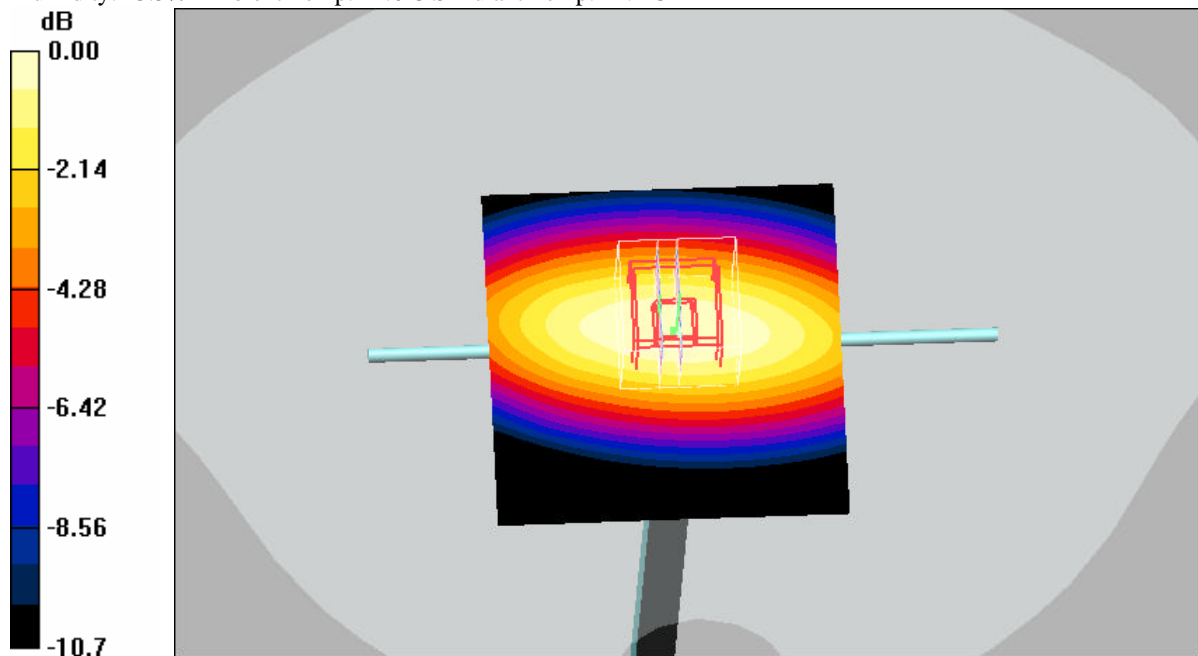
Peak SAR (extrapolated) = 1.31 W/kg

SAR(1 g) = 0.874 mW/g; SAR(10 g) = 0.571 mW/g

Maximum value of SAR (measured) = 0.936 mW/g

Procedure Notes: Pin: before 101.4mW / after 101.2mW

Humidity: 43.5% Ambient Temp: 22.6 C Simulant Temp: 22.2 C

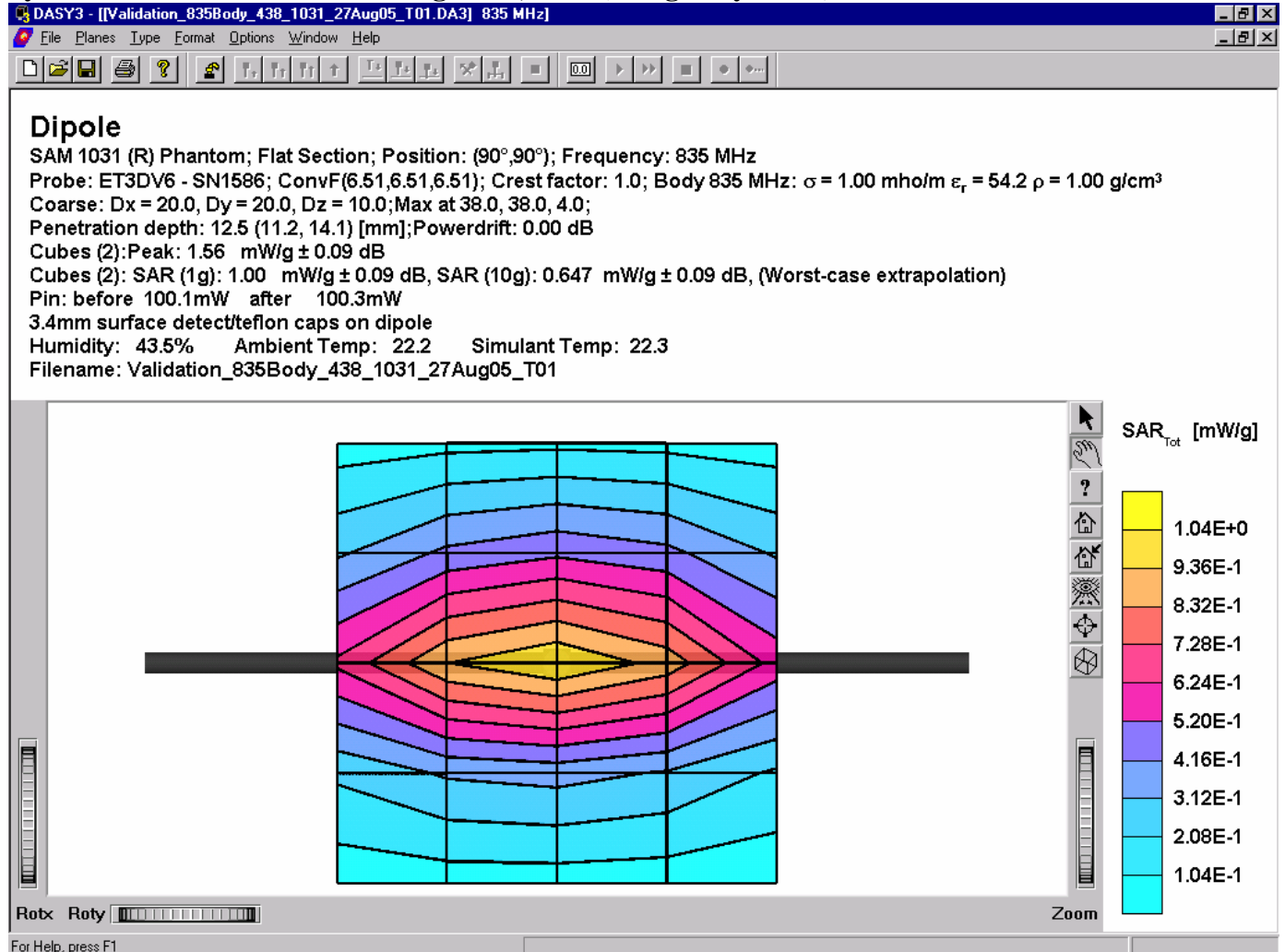


0 dB = 0.936mW/g



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**835 MHz SAR Distribution of Validation Dipole Antenna
System Performance Check on August 27, 2005 (Using body tissue).**





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**1900 MHz SAR Distribution of Validation Dipole Antenna
System Performance Check on August 25, 2005 (Using head tissue).**

Validation_1900Head_536_1335_25Aug05_T01

File Name: [Validation_1900Head_536_1335_25Aug05_T01.da4](#)

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

Probe: ET3DV6 - SN1587ConvF(5.05, 5.05, 5.05)Duty Cycle: 1:1Frequency: 1900 MHz

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

Measurement Standard: DASy4 (High Precision Assessment)

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

Measurement grid: dx=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 = 58.8 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 7.10 W/kg

SAR(1 g) = 4.04 mW/g; SAR(10 g) = 2.12 mW/g

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

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

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

Reference Value = 58.8 V/m; Power Drift = 0.01 dB

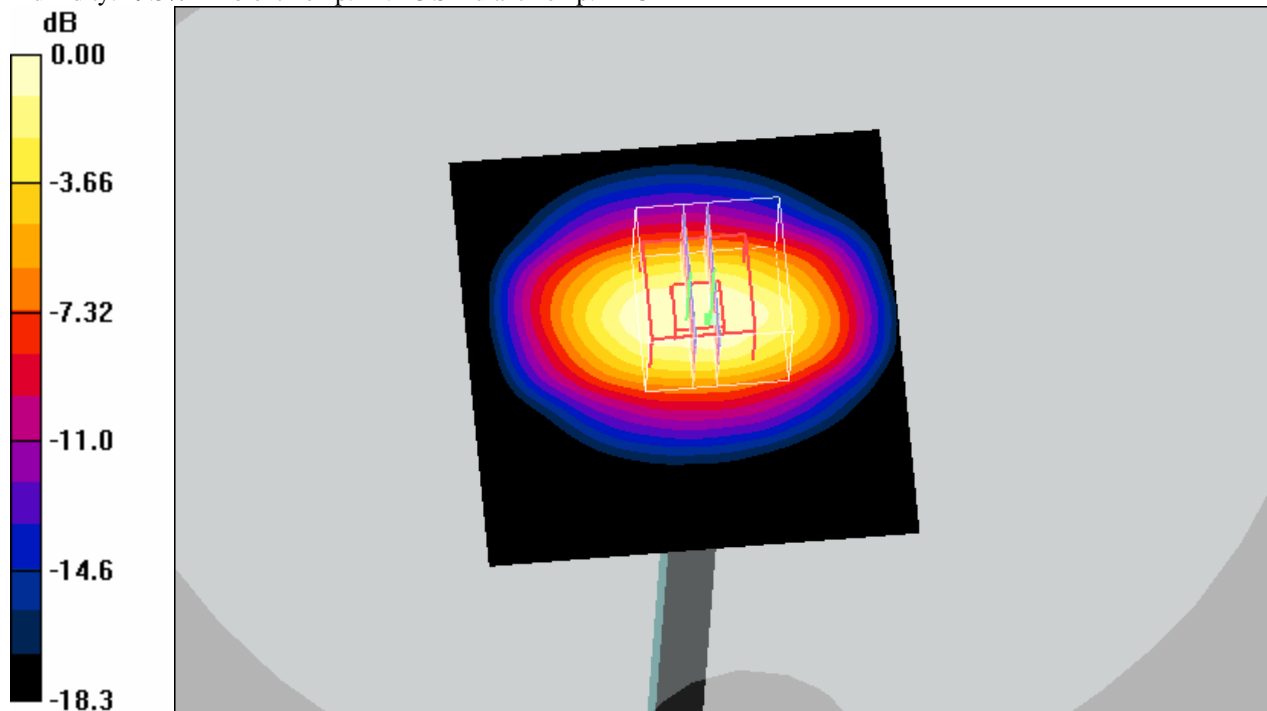
Peak SAR (extrapolated) = 7.18 W/kg

SAR(1 g) = 4.07 mW/g; SAR(10 g) = 2.12 mW/g

Maximum value of SAR (measured) = 4.58 mW/g

Procedure Notes: Pin: before 100.4 mW / after 100.9 mW

Humidity: 49.5% Ambient Temp: 22.2 C Simulant Temp: 22 C

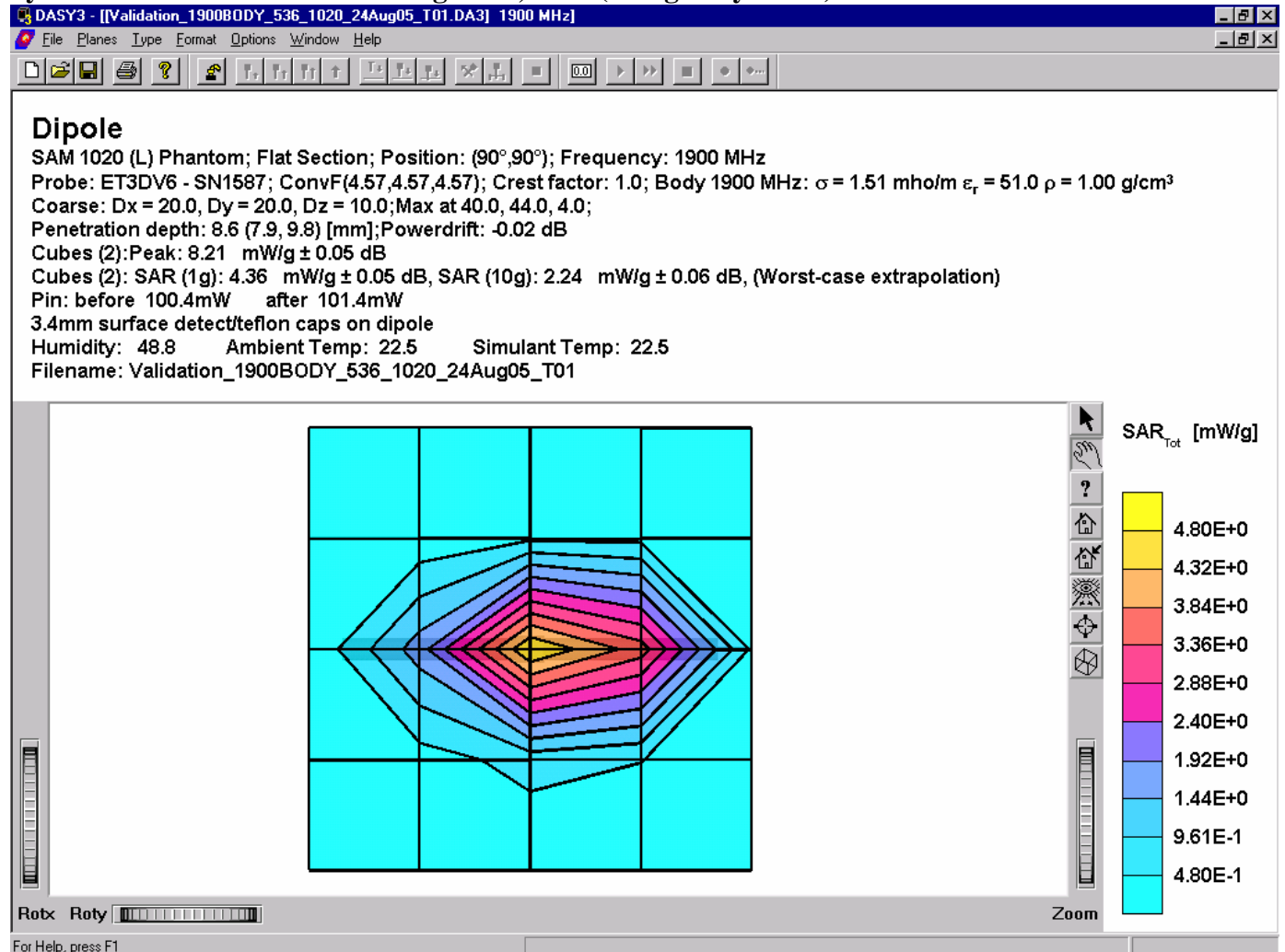


0 dB = 4.58mW/g



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**1900 MHz SAR Distribution of Validation Dipole Antenna
System Performance Check on August 24, 2005 (Using body tissue).**





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Appendix 2

SAR distribution plots for Phantom Head Adjacent Use



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800 GSM Band: SAR Distribution and Extrapolation of Maximum SAR

Model: Z520a SN: BD30246HHE with Standard Battery: BST-37

Right Side, Cheek/Touch Position.

Date/Time: 8/28/2005 10:05:49 AM Date/Time: 8/28/2005 10:11:41 AM

File Name: [28Aug05_Z520a_GSM850_6HHE_RC01.da4](#)

DUT: Z520a

Program Notes: Battery BST-37 Humidity: 43.5% Ambient Temp: 22.6 Simulant Temp: 22.2

Communication System: GSM 850; Frequency: 824 MHz; Duty Cycle: 1:8.3

Medium: Head 835/900 MHz Medium parameters used (interpolated): f = 824 MHz; s = 0.866 mho/m; $\epsilon_r = 40.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1586; ConvF(6.58, 6.58, 6.58); Calibrated: 5/26/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn417; Calibrated: 11/11/2004
- Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Unnamed procedure/Area Scan (51x81x1):

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

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

Maximum value of SAR (interpolated) = 1.54 mW/g

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

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

Reference Value = 12.5 V/m; Power Drift = -0.060 dB

Peak SAR (extrapolated) = 2.23 W/kg

SAR(1 g) = 1.41 mW/g; SAR(10 g) = 0.914 mW/g

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

Maximum value of SAR (measured) = 1.54 mW/g

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

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

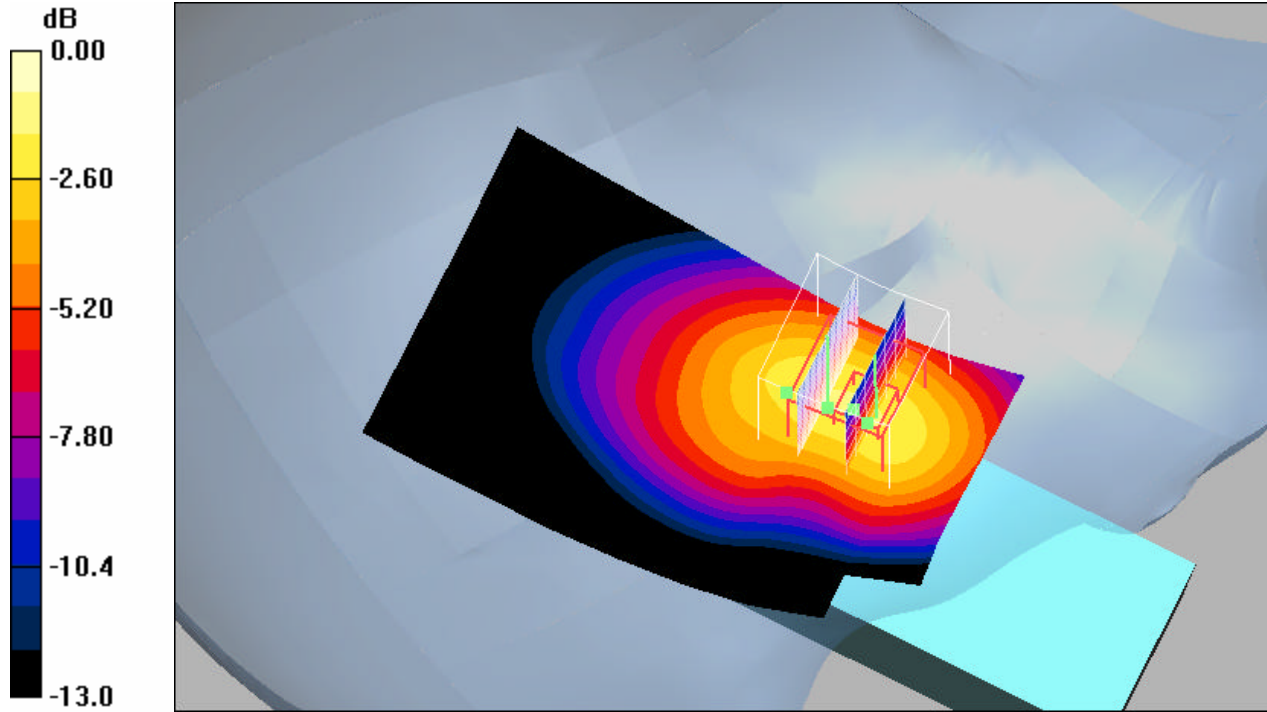
Reference Value = 12.5 V/m; Power Drift = -0.060 dB

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

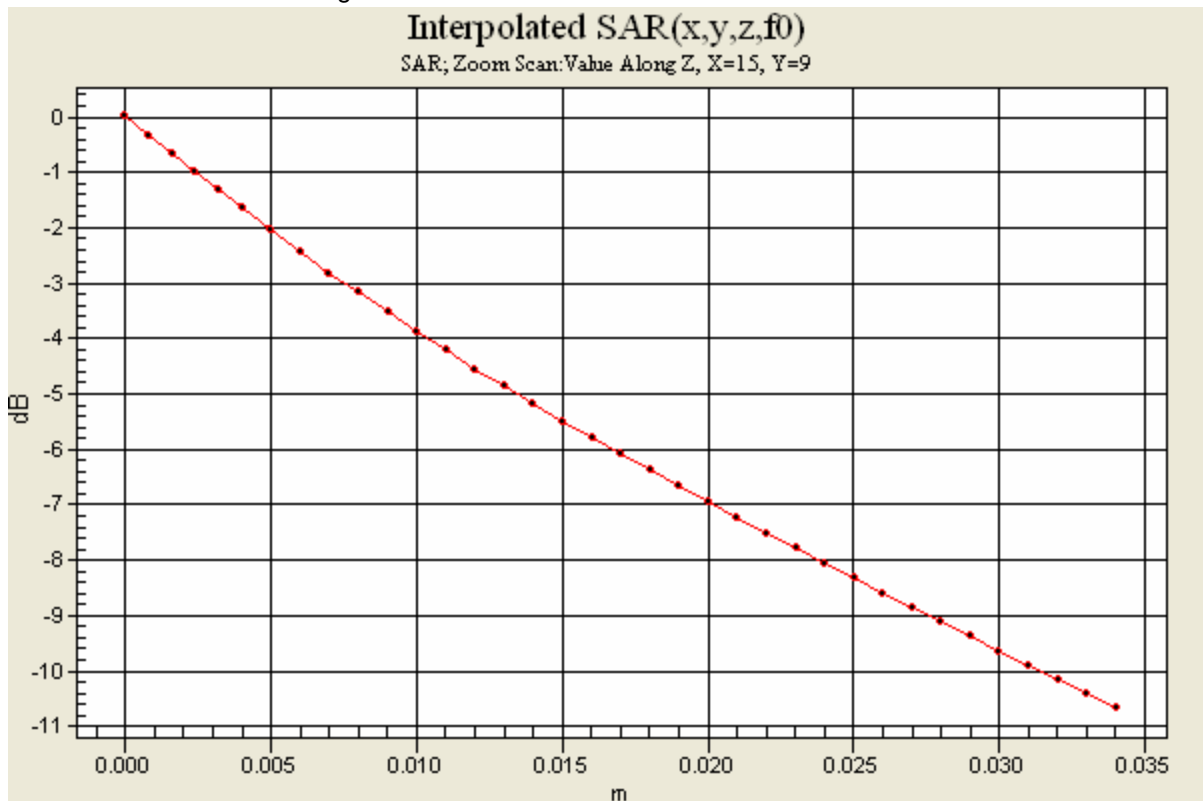
Maximum value of SAR (interpolated) = 2.23 mW/g



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0 dB = 2.23mW/g





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**800 GSM Band: Distribution and Extrapolation of Maximum SAR
Model: Z520a SN: BD30246HHE with Standard Battery: BST-37
Right Side, Tilt Position.**

Date/Time: 8/28/2005 11:48:23 AM Date/Time: 8/28/2005 11:53:57 AM

File Name: [28Aug05_Z520a_GSM850_6HHE_RT01.da4](#)

DUT: Z520a

Program Notes: Battery BST-37 Humidity: 49.7% Ambient Temp: 23 Simulant Temp: 23.9

Communication System: GSM 850; Frequency: 824 MHz; Duty Cycle: 1:8.3

Medium: Head 835/900 MHz Medium parameters used (interpolated): f = 824 MHz; s = 0.866 mho/m; $\epsilon_r = 40.3$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1586; ConvF(6.58, 6.58, 6.58); Calibrated: 5/26/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn417; Calibrated: 11/11/2004
- Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Unnamed procedure/Area Scan (51x81x1):

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

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

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

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

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

Reference Value = 12.6 V/m; Power Drift = -0.067 dB

Peak SAR (extrapolated) = 0.431 W/kg

SAR(1 g) = 0.335 mW/g; SAR(10 g) = 0.247 mW/g

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

Maximum value of SAR (measured) = 0.353 mW/g

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

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

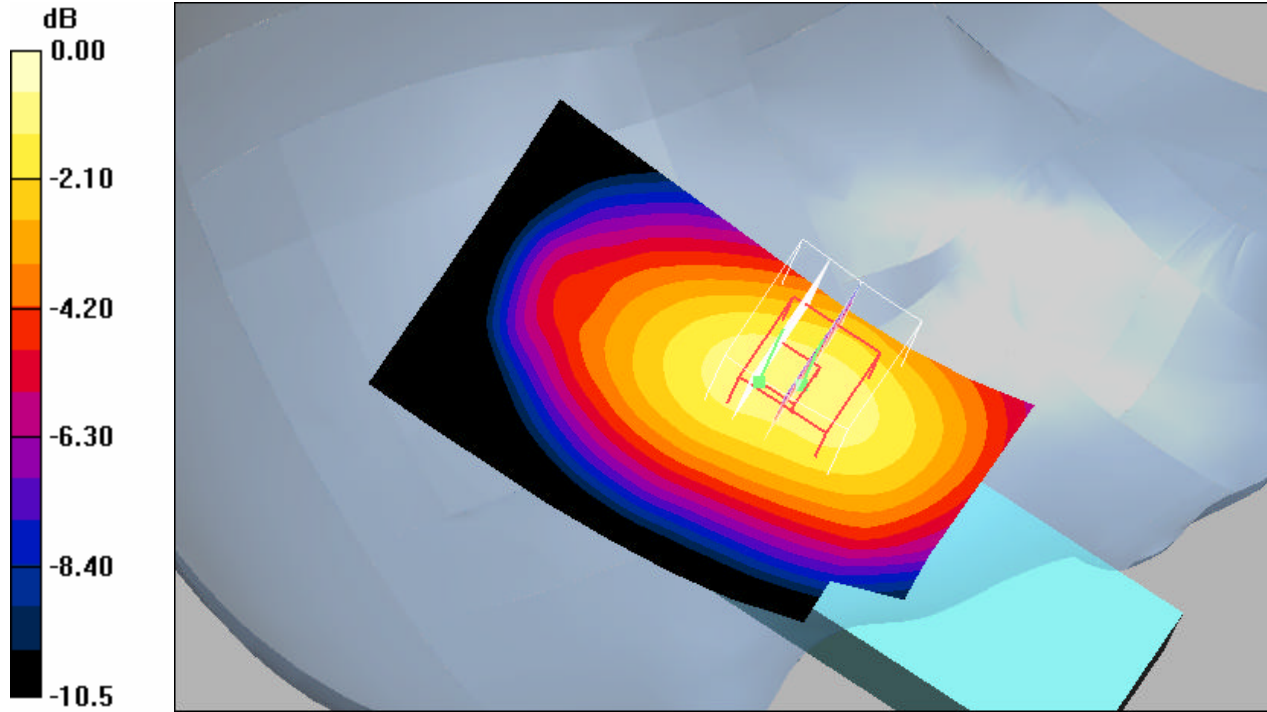
Reference Value = 12.6 V/m; Power Drift = -0.067 dB

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

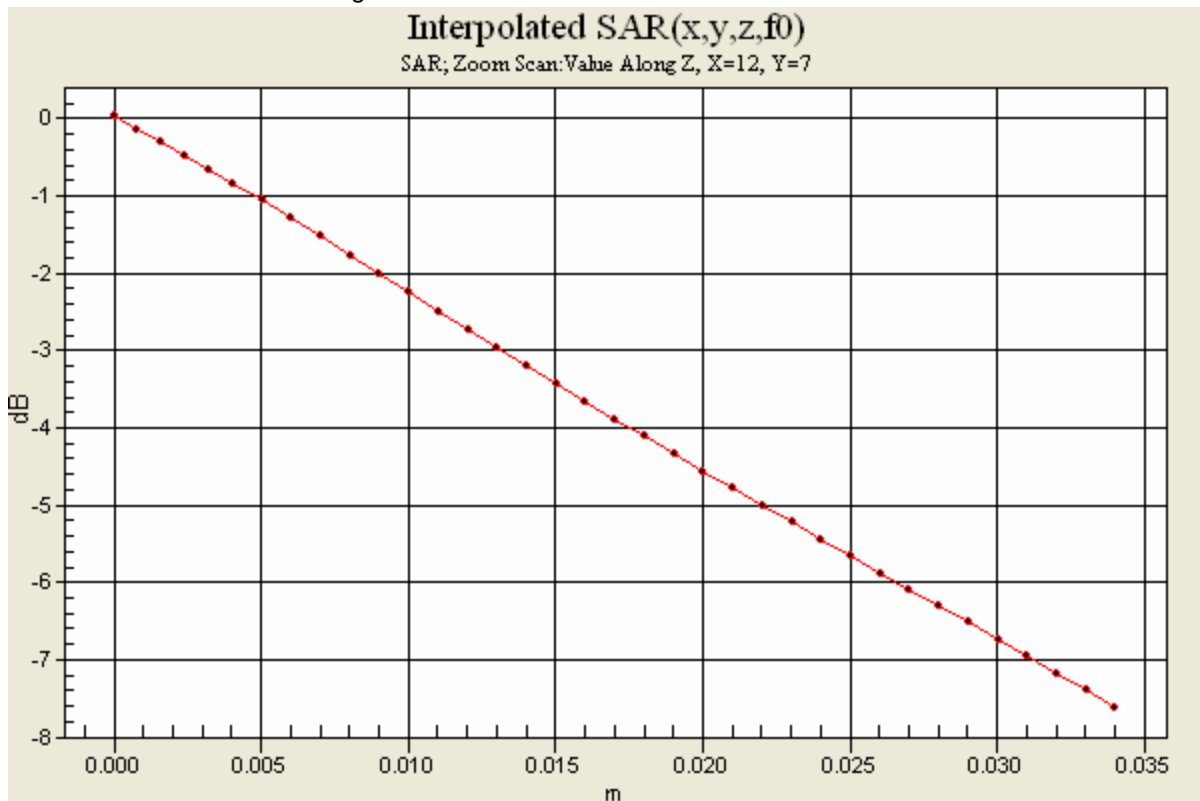
Maximum value of SAR (interpolated) = 0.431 mW/g



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0 dB = 0.431mW/g





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**800 GSM Band: Distribution and Extrapolation of Maximum SAR
Model: Z520a SN: BD30246HHE with Standard Battery: BST-37
Left Side, Cheek/Touch Position.**

Date/Time: 8/26/2005 12:05:32 PM Date/Time: 8/26/2005 12:11:29 PM

File Name: [26Aug05_Z520a_GSM850_6HHE_LC01.da4](#)

DUT: Z520a

Program Notes: Battery BST-37 Humidity: 40.7% Ambient Temp: 23.7 Simulant Temp: 22.6

Communication System: GSM 850; Frequency: 824 MHz; Duty Cycle: 1:8.3

Medium: Head 835/900 MHz Medium parameters used (interpolated): f = 824 MHz; s = 0.903 mho/m; $\epsilon_r = 42$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1586; ConvF(6.58, 6.58, 6.58); Calibrated: 5/26/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn417; Calibrated: 11/11/2004
- Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Unnamed procedure/Area Scan (51x81x1):

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

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

Maximum value of SAR (interpolated) = 1.49 mW/g

Unnamed procedure/Zoom Scan (9x9x7)/Cube 0:

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

Reference Value = 11.6 V/m; Power Drift = -0.133 dB

Peak SAR (extrapolated) = 2.07 W/kg

SAR(1 g) = 1.44 mW/g; SAR(10 g) = 0.916 mW/g

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

Maximum value of SAR (measured) = 1.49 mW/g

Unnamed procedure/Zoom Scan (41x41x36)/Cube 0:

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

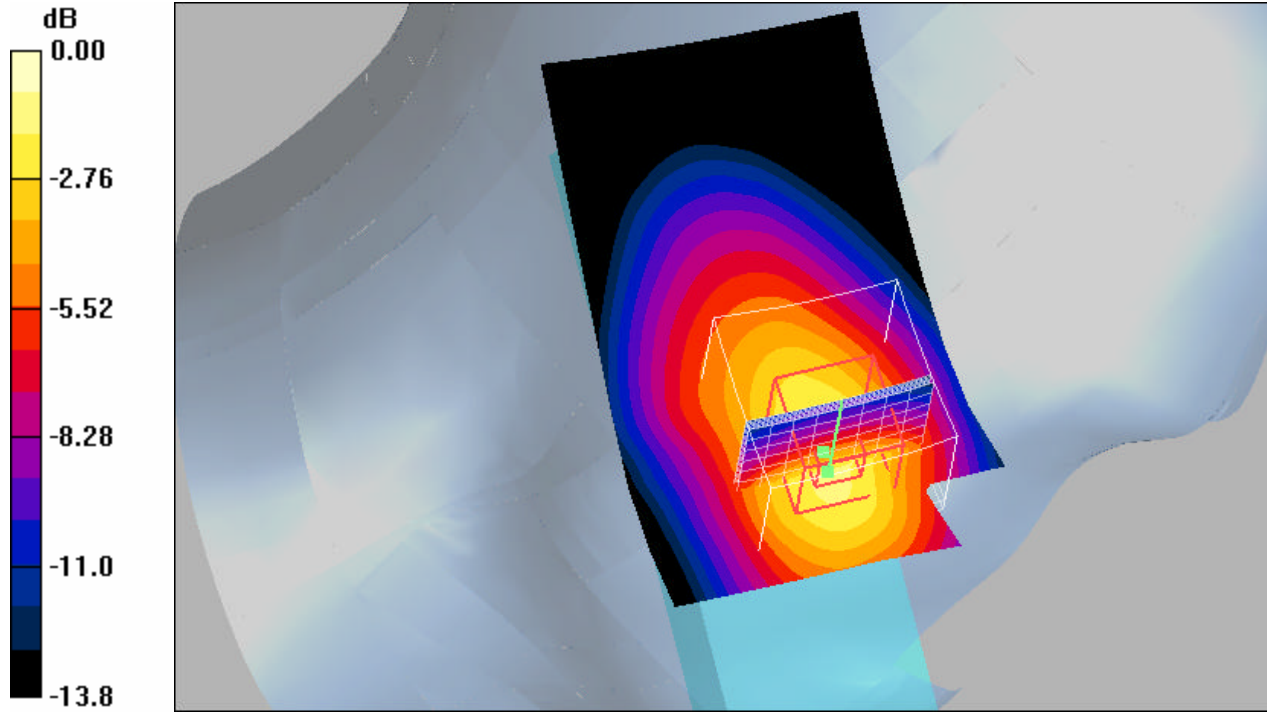
Reference Value = 11.6 V/m; Power Drift = -0.133 dB

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

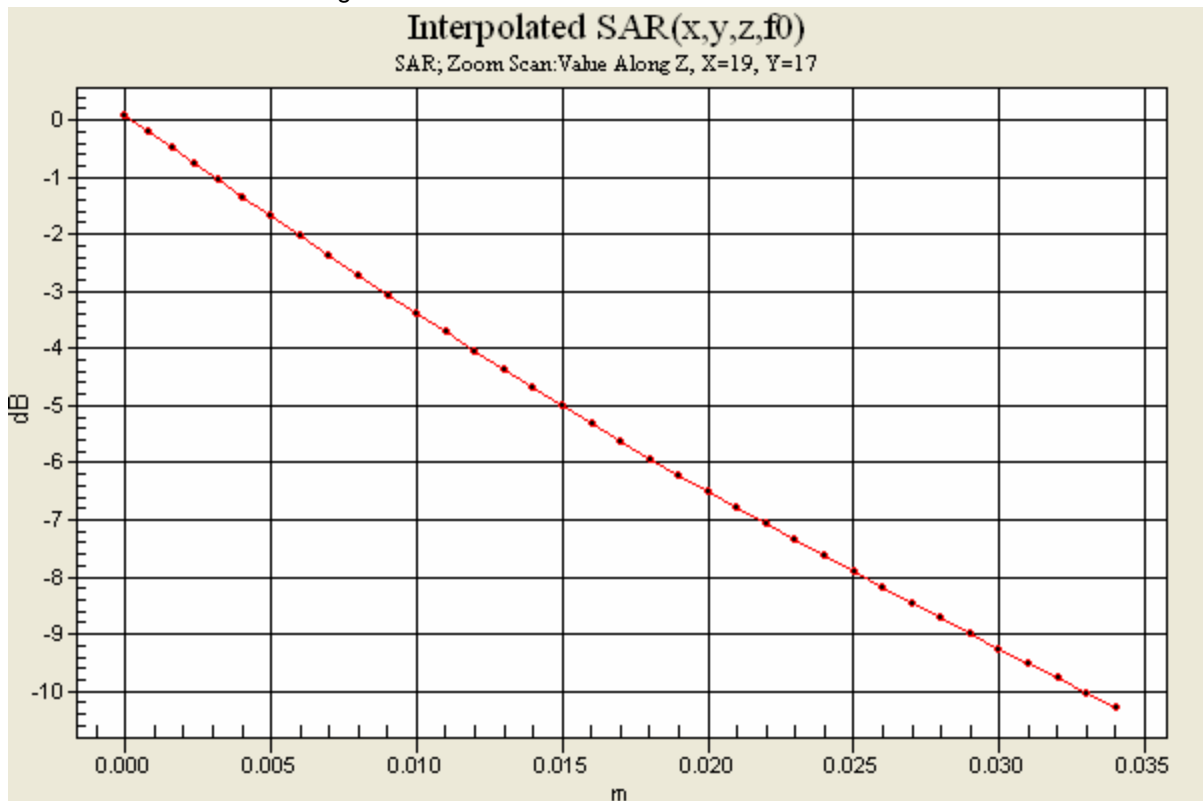
Maximum value of SAR (interpolated) = 2.07 mW/g



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0 dB = 2.07mW/g





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**800 GSM Band: Distribution and Extrapolation of Maximum SAR
Model: Z520a SN: BD30246HHE with Standard Battery: BST-37
Left Side, Tilt Position.**

Date/Time: 8/26/2005 3:00:27 PM Date/Time: 8/26/2005 3:06:02 PM

File Name: [26Aug05_Z520a_GSM850_6HHE_LT01.da4](#)

DUT: Z520a

Program Notes: Battery BST-37 Humidity: 39.4% Ambient Temp: 24 Simulant Temp: 23.2

Communication System: GSM 850; Frequency: 824 MHz; Duty Cycle: 1:8.3

Medium: Head 835/900 MHz Medium parameters used (interpolated): f = 824 MHz; s = 0.903 mho/m; $\epsilon_r = 42$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1586; ConvF(6.58, 6.58, 6.58); Calibrated: 5/26/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn417; Calibrated: 11/11/2004
- Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Unnamed procedure/Area Scan (51x81x1):

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

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

Maximum value of SAR (interpolated) = 0.387 mW/g

Unnamed procedure/Zoom Scan (9x9x7)/Cube 0:

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

Reference Value = 12.8 V/m; Power Drift = -0.140 dB

Peak SAR (extrapolated) = 0.463 W/kg

SAR(1 g) = 0.361 mW/g; SAR(10 g) = 0.264 mW/g

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

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

Unnamed procedure/Zoom Scan (41x41x36)/Cube 0:

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

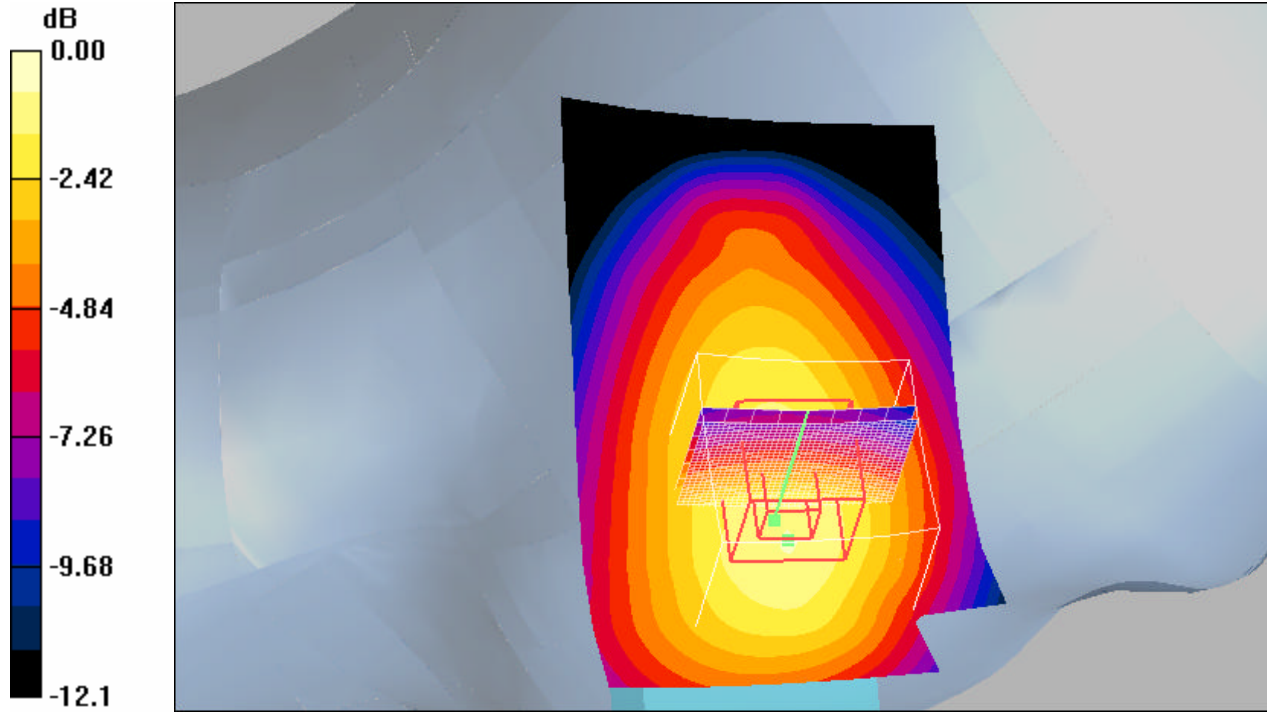
Reference Value = 12.8 V/m; Power Drift = -0.140 dB

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

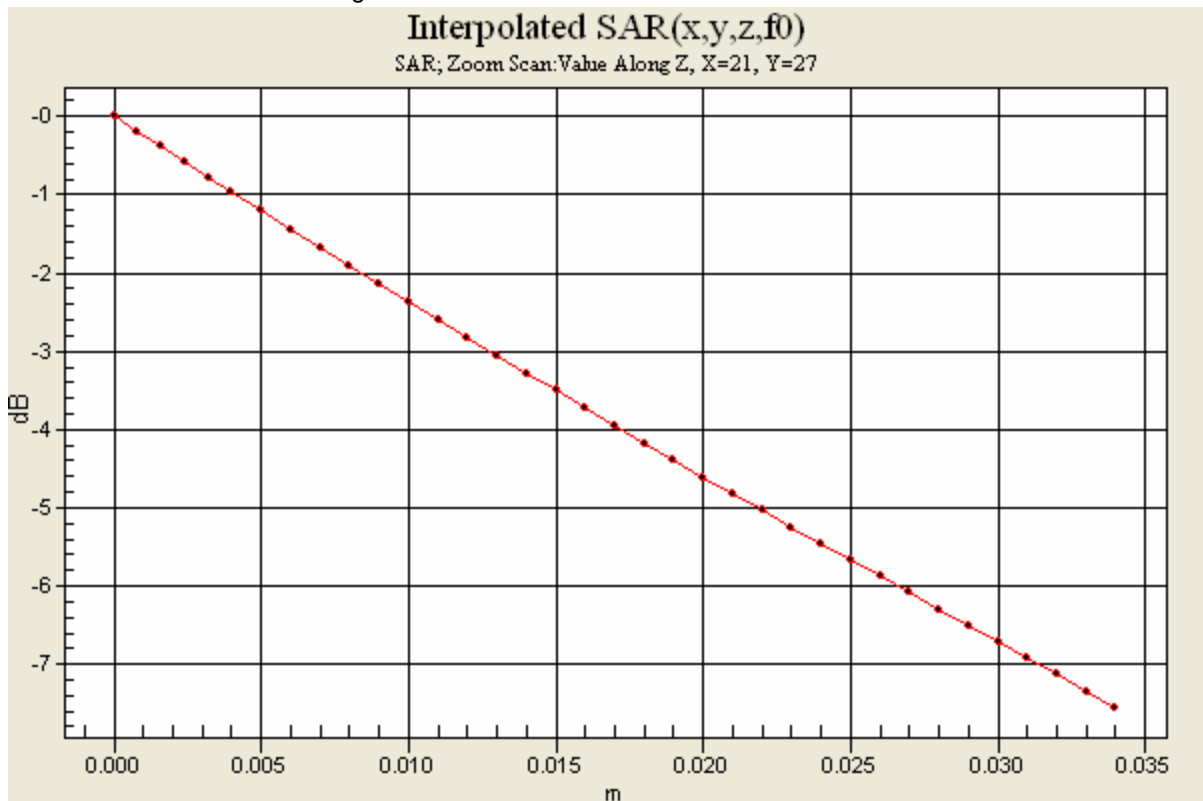
Maximum value of SAR (interpolated) = 0.463 mW/g



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0 dB = 0.463mW/g





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**800 GSM Band: Distribution and Extrapolation of Maximum SAR
Model: Z520a SN: BD30246HHE with Standard Battery: BST-37
Left Side, Cheek/Touch Position with Blue Tooth.**

Date/Time: 8/28/2005 4:55:11 PM Date/Time: 8/28/2005 5:00:45 PM

File Name: [28Aug05_Z520a_GSM850_6HHE_BT_LC01.da4](#)

DUT: Z520a

Program Notes: Battery BST-37 Humidity: 49.6% Ambient Temp: 22.5 Simulant Temp: 23.1

Communication System: GSM 850; Frequency: 824 MHz; Duty Cycle: 1:8.3

Medium: Head 835/900 MHz Medium parameters used (interpolated): f = 824 MHz; s = 0.866 mho/m; $\epsilon_r = 40.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1586; ConvF(6.58, 6.58, 6.58); Calibrated: 5/26/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn417; Calibrated: 11/11/2004
- Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Unnamed procedure/Area Scan (51x81x1):

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

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

Maximum value of SAR (interpolated) = 1.53 mW/g

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

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

Reference Value = 9.92 V/m; Power Drift = -0.106 dB

Peak SAR (extrapolated) = 2.14 W/kg

SAR(1 g) = 1.44 mW/g; SAR(10 g) = 0.915 mW/g

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

Maximum value of SAR (measured) = 1.53 mW/g

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

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

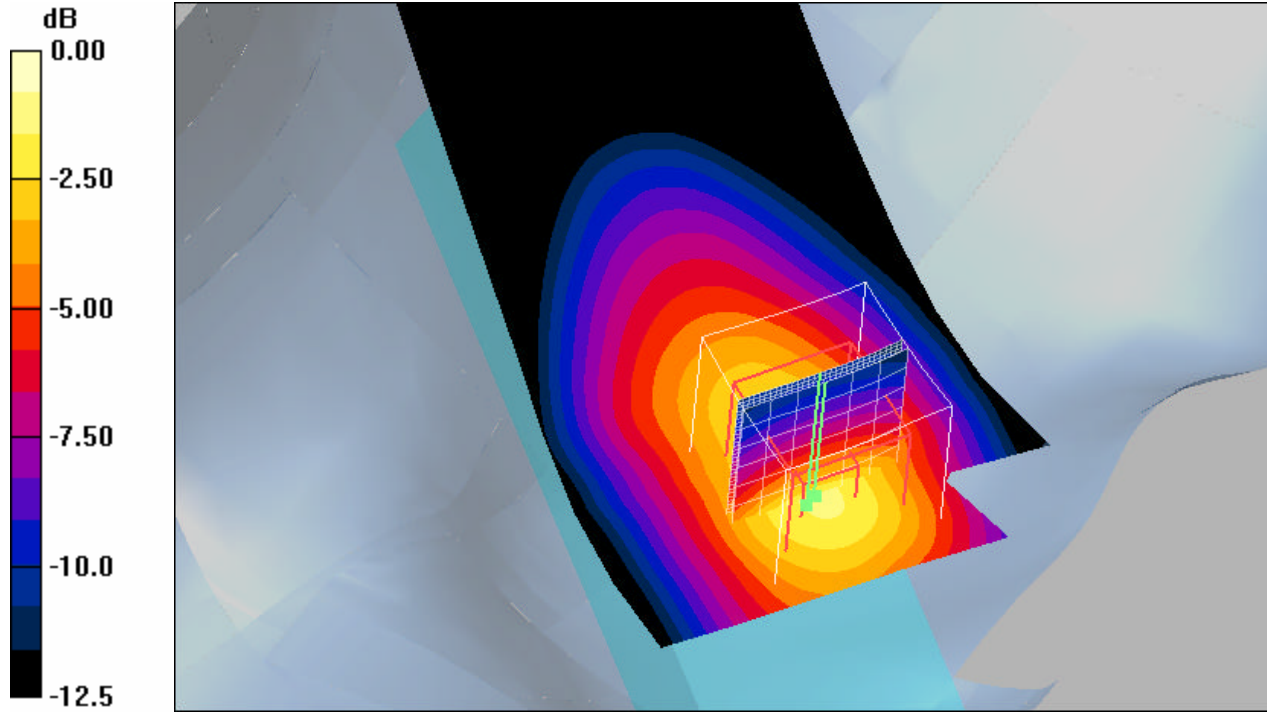
Reference Value = 9.92 V/m; Power Drift = -0.106 dB

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

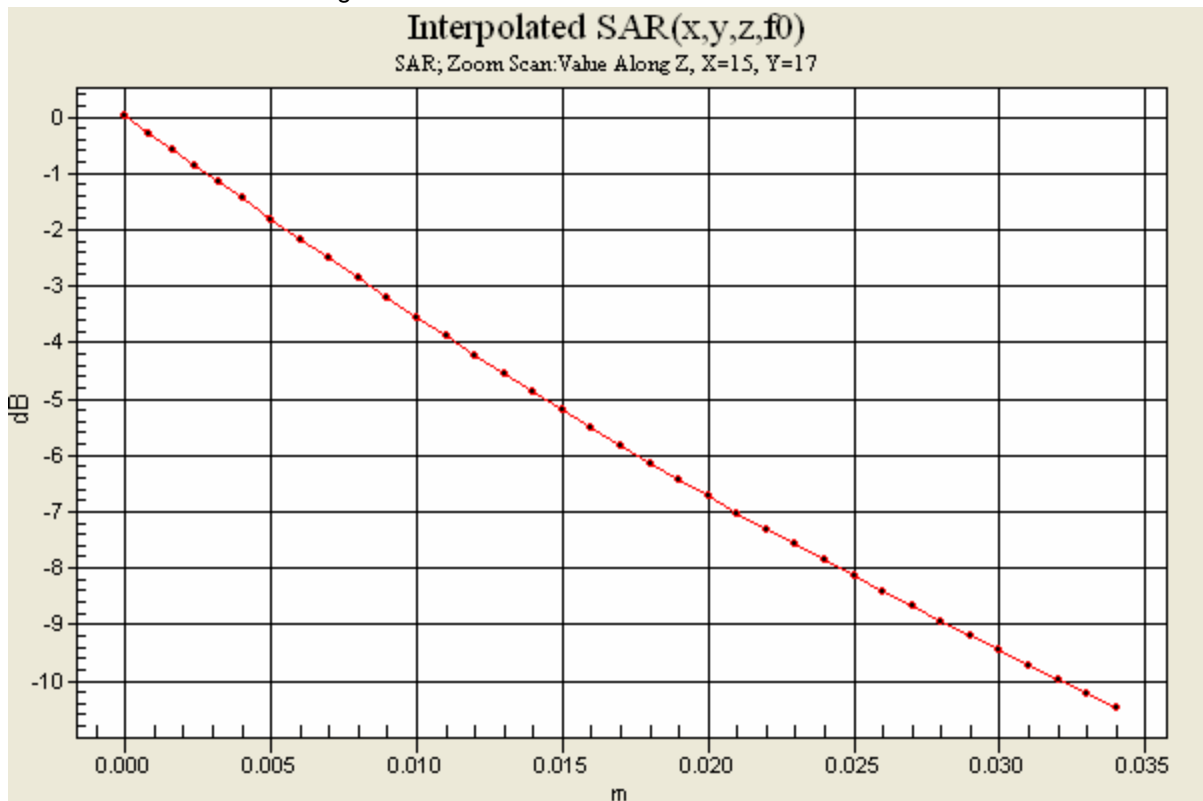
Maximum value of SAR (interpolated) = 2.14 mW/g



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0 dB = 2.14mW/g





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1900 GSM Band: Distribution and Extrapolation of Maximum SAR

Model: Z520a SN: BD30246HHE with Standard Battery: BST-37

Right Side, Cheek/Touch Position.

Date/Time: 8/25/2005 11:56:56 AM Date/Time: 8/25/2005 12:02:14 PM

File Name: [25Aug05_Z520a_GSM1900_6HHE_RC01.da4](#)

DUT: Z520a

Program Notes: Battery BST-37 Humidity: 48.9% Ambient Temp: 20.6 Simulant Temp: 20.6

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

Medium: Head 1800/1900 MHz Medium parameters used: f = 1880 MHz; s = 1.45 mho/m; $\epsilon_r = 38.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1587; ConvF(5.11, 5.11, 5.11); Calibrated: 5/27/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/12/2004
- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Unnamed procedure 2/Area Scan (51x81x1):

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

Maximum value of SAR (interpolated) = 0.926 mW/g

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

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

Reference Value = 3.36 V/m; Power Drift = -0.021 dB

Peak SAR (extrapolated) = 1.57 W/kg

SAR(1 g) = 0.799 mW/g; SAR(10 g) = 0.398 mW/g

Maximum value of SAR (measured) = 0.899 mW/g

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

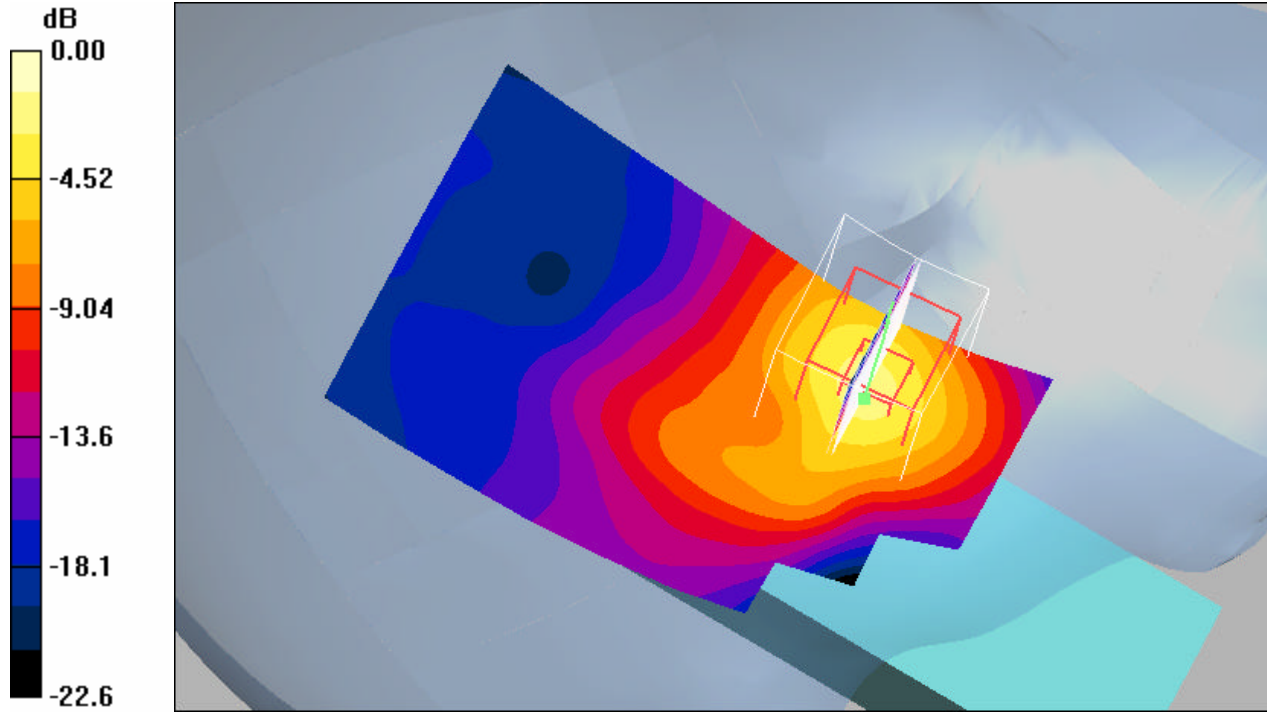
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.36 V/m; Power Drift = -0.021 dB

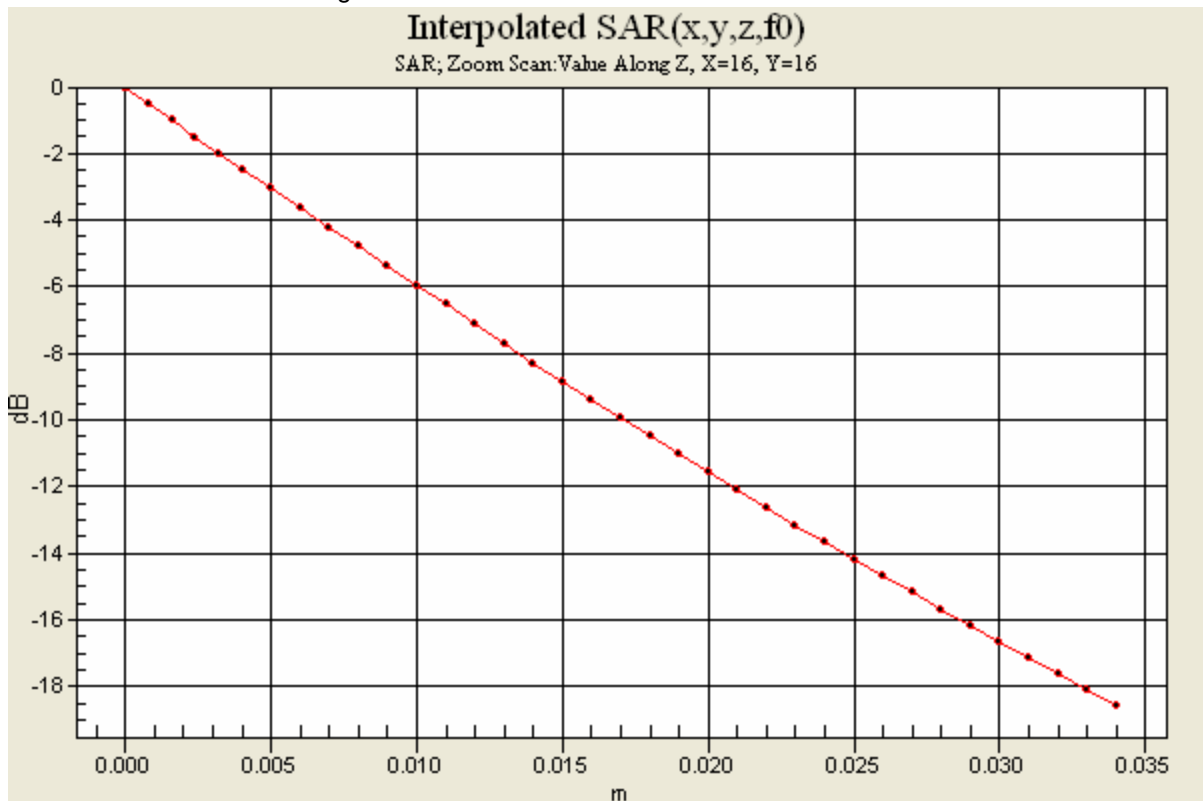
Maximum value of SAR (interpolated) = 1.57 mW/g



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0 dB = 1.57mW/g





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1900 GSM Band: Distribution and Extrapolation of Maximum SAR

Model: Z520a SN: BD30246HHE with Standard Battery: BST-37

Right Side, Tilt Position.

Date/Time: 8/25/2005 10:54:18 AM Date/Time: 8/25/2005 10:59:35 AM

File Name: [25Aug05_Z520a_GSM1900_6HHE_RT01.da4](#)

DUT: Z520a

Program Notes: Battery BST-37 Humidity: 54.5 Ambient Temp: 21.3 Simulant Temp: 20.7

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

Medium: Head 1800/1900 MHz Medium parameters used: f = 1880 MHz; s = 1.45 mho/m; $\epsilon_r = 38.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1587; ConvF(5.11, 5.11, 5.11); Calibrated: 5/27/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/12/2004
- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Unnamed procedure 2/Area Scan (51x81x1):

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

Maximum value of SAR (interpolated) = 0.199 mW/g

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

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

Reference Value = 8.33 V/m; Power Drift = -0.059 dB

Peak SAR (extrapolated) = 0.245 W/kg

SAR(1 g) = 0.166 mW/g; SAR(10 g) = 0.102 mW/g

Maximum value of SAR (measured) = 0.184 mW/g

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

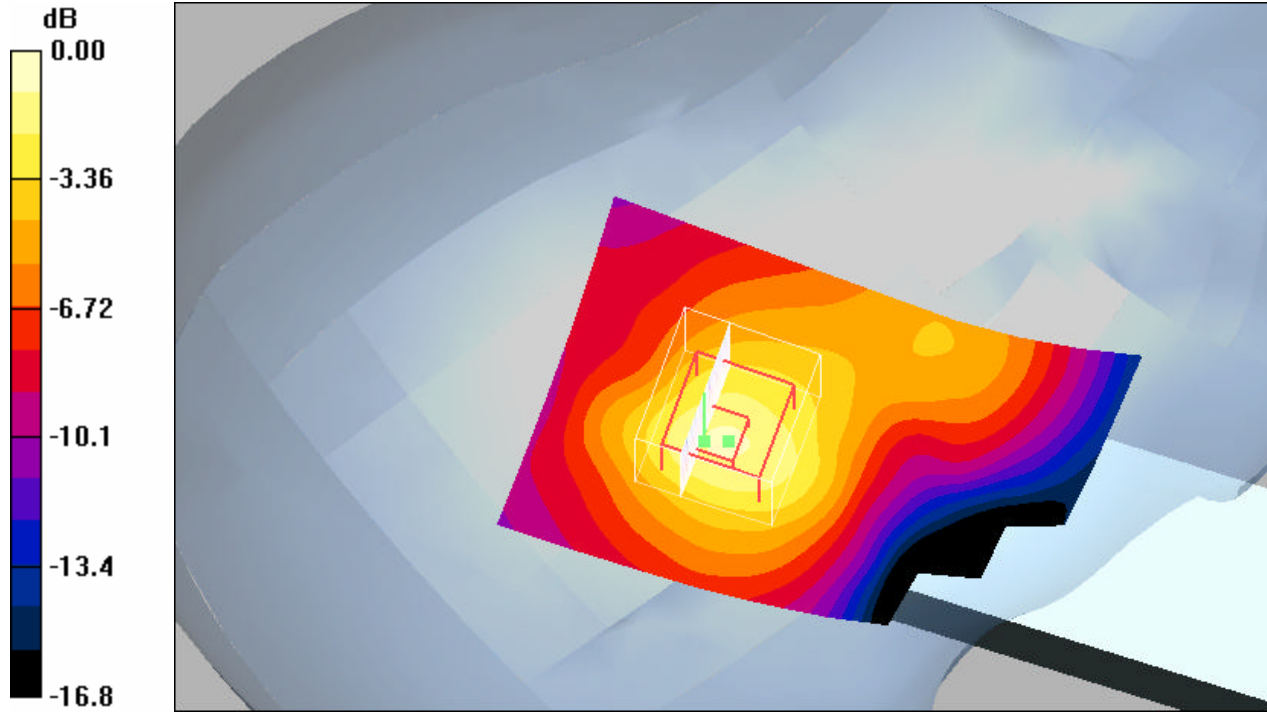
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.33 V/m; Power Drift = -0.059 dB

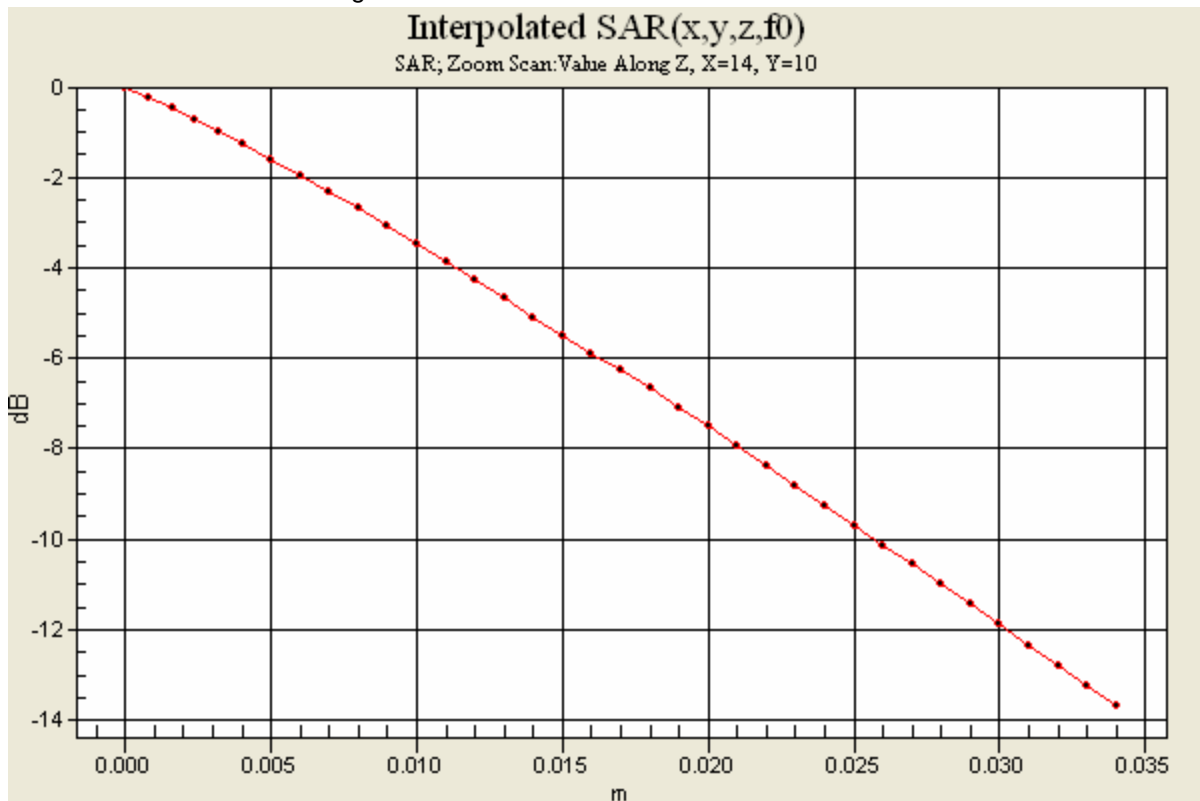
Maximum value of SAR (interpolated) = 0.245 mW/g



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0 dB = 0.245mW/g





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1900 GSM Band: Distribution and Extrapolation of Maximum SAR

Model: Z520a SN: BD30246HHE with Standard Battery: BST-37

Left Side, Cheek/Touch Position.

Date/Time: 8/25/2005 8:52:02 AM Date/Time: 8/25/2005 8:57:29 AM

File Name: [25Aug05_Z520a_GSM1900_6HHE_LC01.da4](#)

DUT: Z520a

Program Notes: Battery BST-37 Humidity: 49.5% Ambient Temp: 22.2 Simulant Temp: 22

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

Medium: Head 1800/1900 MHz Medium parameters used: f = 1880 MHz; s = 1.45 mho/m; $\epsilon_r = 38.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DVB6 - SN1587; ConvF(5.05, 5.05, 5.05); Calibrated: 5/26/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/12/2004
- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Unnamed procedure 2/Area Scan (51x81x1):

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

Maximum value of SAR (interpolated) = 0.524 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 = -0.01 dB

Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.523 mW/g; SAR(10 g) = 0.264 mW/g

Maximum value of SAR (measured) = 0.592 mW/g

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

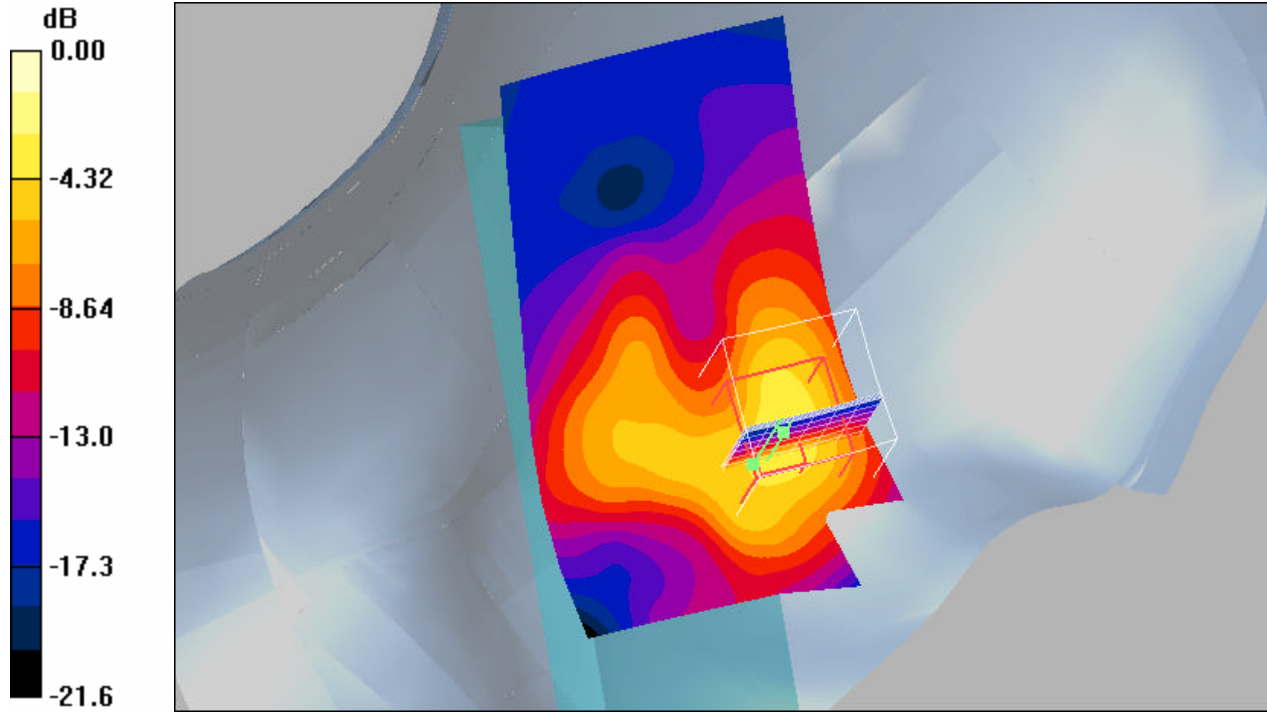
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.9 V/m; Power Drift = -0.01 dB

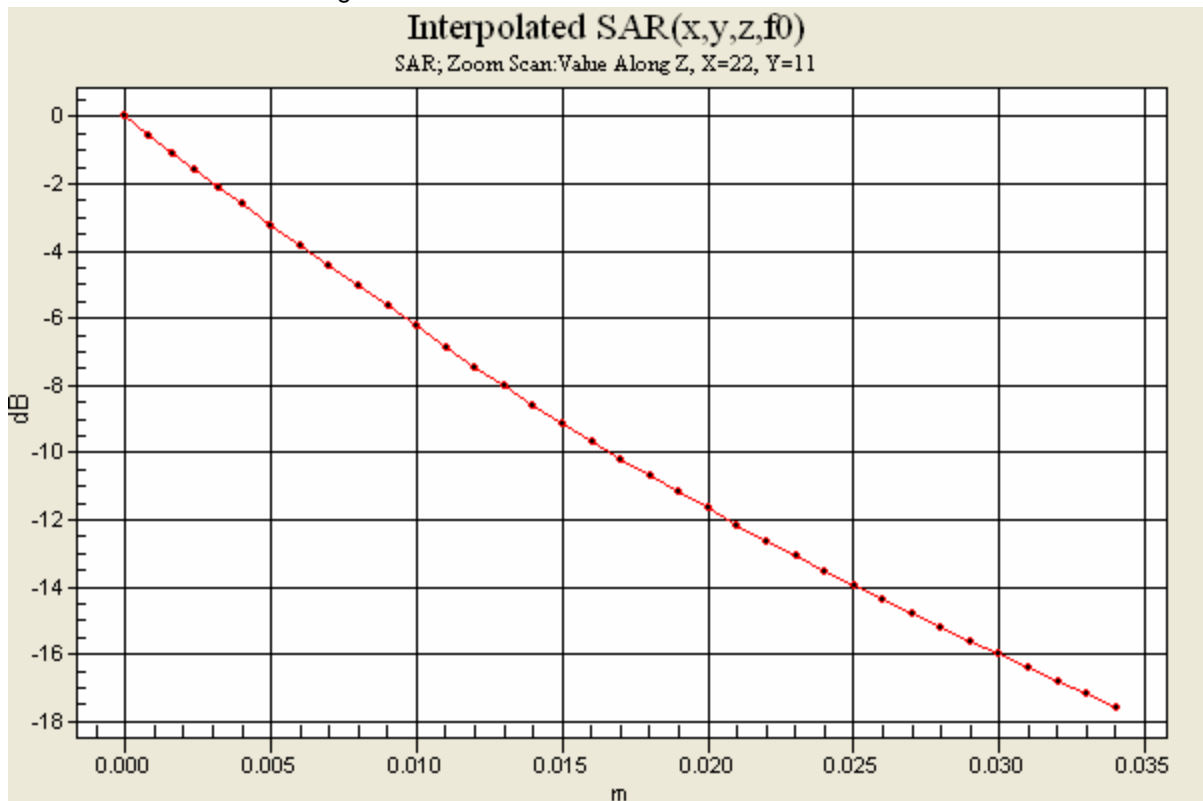
Maximum value of SAR (interpolated) = 1.03 mW/g



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0 dB = 1.03mW/g





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1900 GSM Band: Distribution and Extrapolation of Maximum SAR

Model: Z520a SN: BD30246HHE with Standard Battery: BST-37

Left Side, Tilt Position.

Date/Time: 8/25/2005 10:12:57 AM Date/Time: 8/25/2005 10:18:24 AM

File Name: [25Aug05_Z520a_GSM1900_6HHE_LT01.da4](#)

DUT: Z520a

Program Notes: Battery BST-37 Humidity: 54.6% Ambient Temp: 21.2 Simulant Temp: 22.1

Communication System: DCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: Head 1800/1900 MHz Medium parameters used (interpolated): f = 1909.8 MHz; s = 1.48 mho/m; $\epsilon_r = 38.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1587; ConvF(5.05, 5.05, 5.05); Calibrated: 5/26/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/12/2004
- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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) = 0.150 mW/g

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

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

Reference Value = 4.39 V/m; Power Drift = -0.131 dB

Peak SAR (extrapolated) = 0.199 W/kg

SAR(1 g) = 0.130 mW/g; SAR(10 g) = 0.080 mW/g

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

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

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

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

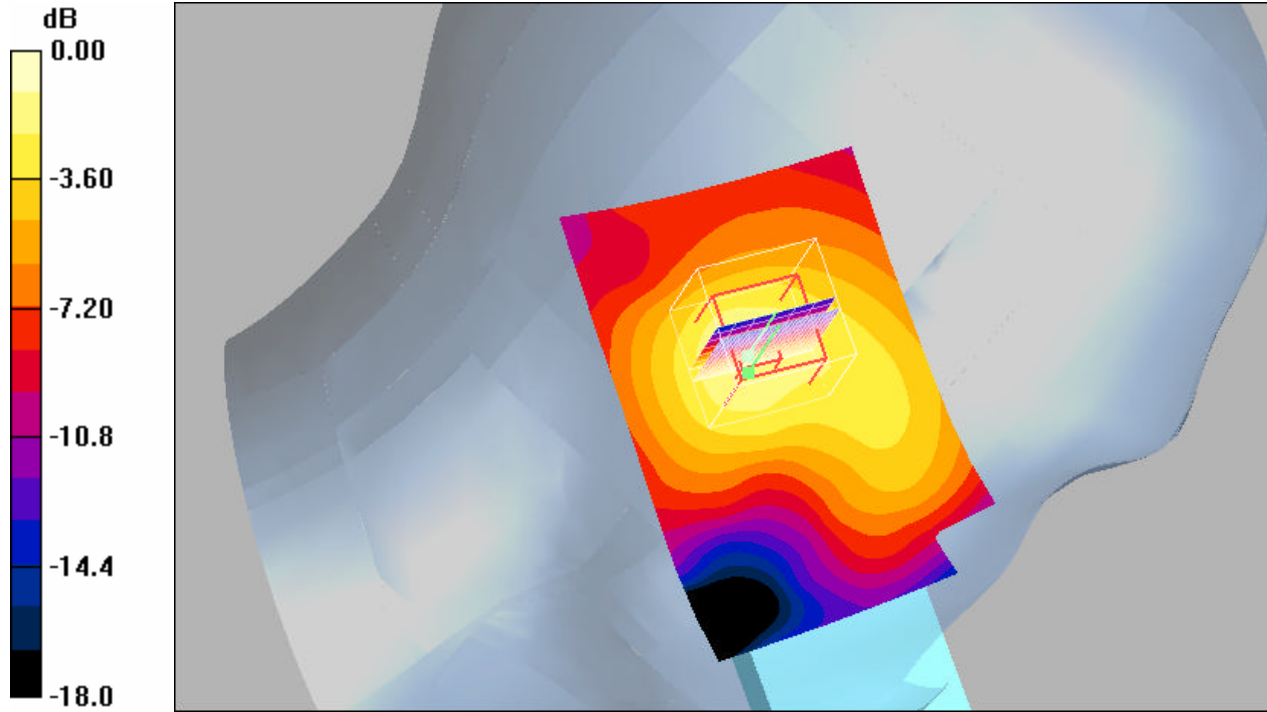
Reference Value = 4.39 V/m; Power Drift = -0.131 dB

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

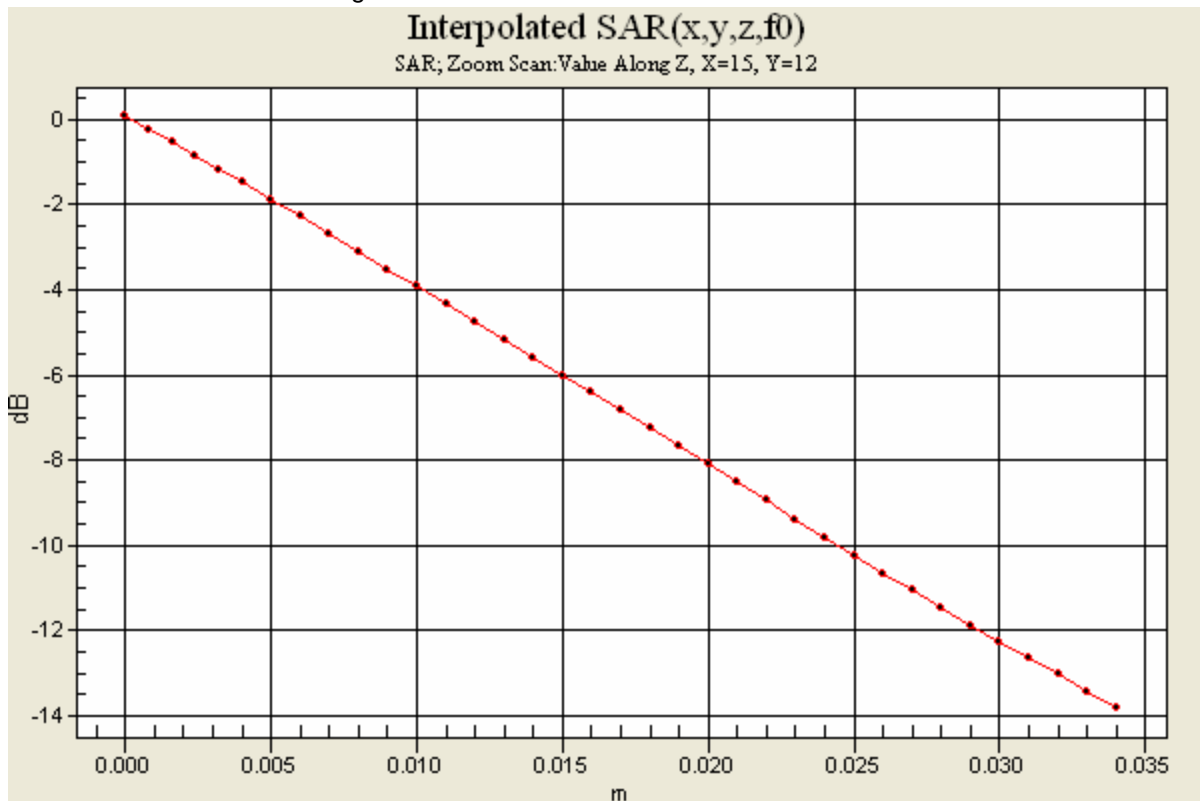
Maximum value of SAR (interpolated) = 0.199 mW/g



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0 dB = 0.199mW/g





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1900 GSM Band: Distribution and Extrapolation of Maximum SAR

Model: Z520a SN: BD30246HHE with Standard Battery: BST-37

Right Side, Cheek/Touch Position with Blue Tooth.

Date/Time: 8/25/2005 2:05:15 PM Date/Time: 8/25/2005 2:10:33 PM

File Name: [25Aug05_Z520a_GSM1900_6HHE_BT_RC01.da4](#)

DUT: Z520a

Program Notes: Battery BST-37 Humidity: 51.9% Ambient Temp: 21.5 Simulant Temp: 20.5

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

Medium: Head 1800/1900 MHz Medium parameters used: f = 1880 MHz; s = 1.45 mho/m; $\epsilon_r = 38.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1587; ConvF(5.11, 5.11, 5.11); Calibrated: 5/27/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/12/2004
- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Unnamed procedure 2/Area Scan (51x81x1):

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

Maximum value of SAR (interpolated) = 0.911 mW/g

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

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

Reference Value = 3.45 V/m; Power Drift = -0.099 dB

Peak SAR (extrapolated) = 1.57 W/kg

SAR(1 g) = 0.787 mW/g; SAR(10 g) = 0.389 mW/g

Maximum value of SAR (measured) = 0.873 mW/g

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

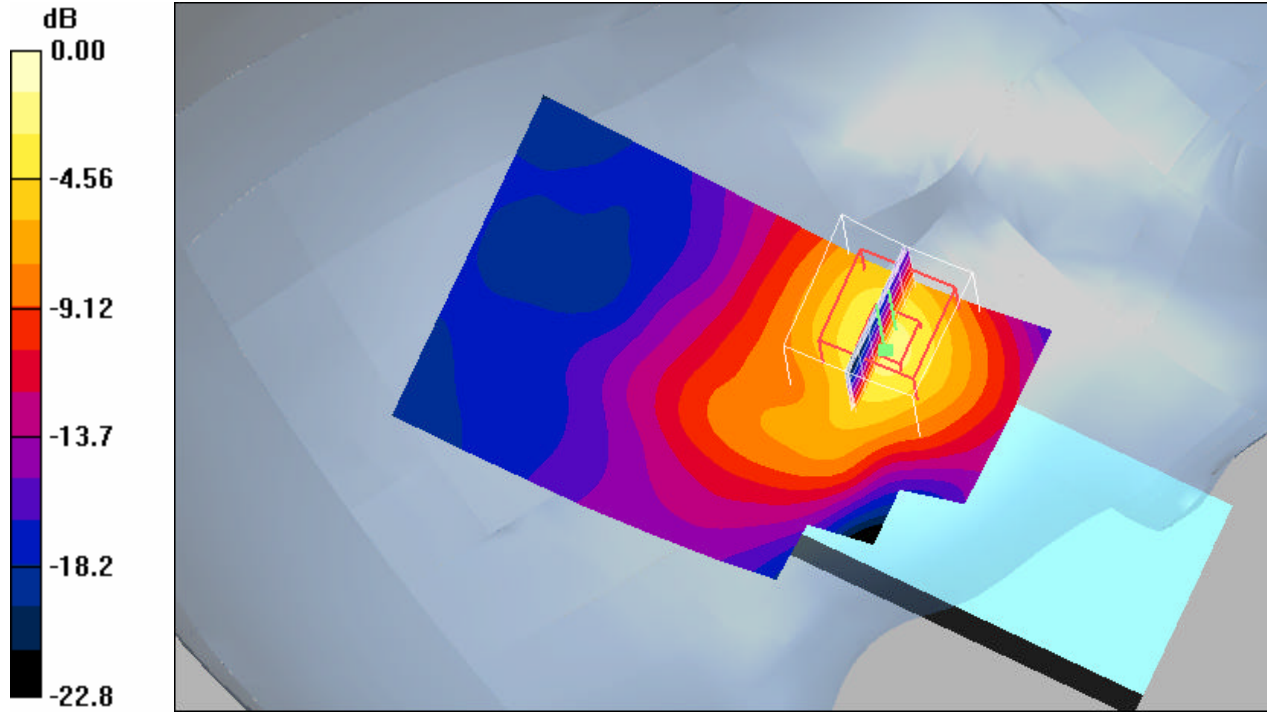
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.45 V/m; Power Drift = -0.099 dB

Maximum value of SAR (interpolated) = 1.57 mW/g



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0 dB = 1.57mW/g

