Prepared (also subject responsible if other)		No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon		REP 2006 003 W300i 02	
Approved	Checked		
SEM/CV/PF/P Gerard Hayes		A	X:\SAR Chamber\FCC reports\W300I\Final Reports\FCCW300I.doc

Exhibit 11: SAR Test Report of Portable Cellular Phone FCC ID: PY7AF052031 Model : W300i

Date of test: March 23 - March 28, 2006
Date of Report: April 10, 2006

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

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

Test Responsible: Gerard Hayes Gerard Hayes 10 April 2006
Technical Manager

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

Specific Absorption Rate (SAR)
Dielectric parameters
RF power measurement

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 PY7AF052031 model W300i 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 PY7AF052031 model W300i. 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	7 mm
	Length	45 mm
	Height	11 mm

2.2 Device description

FCC ID Number / Device Model	PY7AF052031 / W300i							
Serial number	BDX0000EUN						BDX0000ES1	
Mode(s) of Operation	GSM 800						GSM 1900	
Modulation Mode(s)	TDMA						TDMA	
Target Value and Factory Tolerance Window for Maximum Output Power Setting **GSM Mode: 1/8 Duty Cycle**	f_{low}	32.8 dBm +0.2/-1.0 dB					f_{low}	30.1 dBm +0.2/-0.5 dB
	f_{mid}	32.9 dBm +0.3/-1.0 dB					f_{mid}	29.9 dBm +0.2/-0.5 dB
	f_{high}	33.0 dBm +0.2/-0.8 dB					f_{high}	30.0 dBm +/-0.2 dB
GPRS Mode: 2/8 Duty Cycle **Target Maximum Output Power Setting (adjusted from GSM mode)**	f_{low}	32.8 dBm +0.2/-1.0 dB					f_{low}	30.1 dBm +0.2/-0.5 dB
	f_{mid}	32.9 dBm +0.3/-1.0 dB					f_{mid}	29.9 dBm +0.2/-0.5 dB
	f_{high}	33.0 dBm +0.2/-0.8 dB					f_{high}	30.0 dBm +/-0.2 dB
Calibration Frequency (f_{low}, f_{mid}, f_{high})	f_{high}						f_{high}	
Transmitting Frequency Rang(s)	824-849 MHz						1850-1910 MHz	
Production Unit or Identical Prototype (47 CFR §2..908)	Identical Prototype							
Device Category	Portable							

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RF Exposure Limits	General Population / Uncontrolled

3. Test Equipment Used

3.1 Dosimetric System

The Sony Ericsson SAR Laboratory utilizes Dosimetric Assessment Systems (Dasy4™) manufactured by Schmid & Partner Engineering AG (SPEAG™), of Zurich Switzerland. The overall RSS uncertainty of the measurement system is ±9.80% (K=1) with an expanded uncertainty of ±19.59% (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	10-Nov-2006
DASY3 DAE V1	416	10-Nov-2006
E-Field Probe ETDV6	1586	26-May-2006
E-Field Probe ETDV6	1539	22-Nov-2006
Dipole Validation Kit, DV835V2	429	21-Nov-2006
Dipole Validation Kit, DV1900V2	537	15-Nov-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 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 5, 2006
Power Meter 437B	3125U13729	June 3, 2006
Power Sensor - 8482H	MY41090240	April 29, 2006
Power Sensor - 8482H	MY41090239	April 29, 2006
Dielectric Probe Kit HP85070B	US33020390	August 29, 2006
Digital Thermometer 61220-601 And Probe (61220-604)	350078	November 9, 2006
Digital Hygrometer/ Thermometer	21242911	November 9, 2006
HP RF Amplifier 8347A	3307A1069	May 4, 2006

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 ρ=1g/cm3 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 all of the tests represented in this report, the ambient temperature of the laboratory was in the range 22.6-24.6°C, the relative humidity was 30.9%- 38.1 %, and the liquid depth above the ear and body reference points was more than 15.0 cm for all the cases. It is seen that the following measured parameters are satisfactory for compliance testing.

f (MHz)	Tissue type	Limits / Measured	Dielectric Parameters		
			e_r	s (S/m)	Simulated Tissue Temp (°C)
835	Head	Measured, 28-Mar-06	40.05	.887	23.1
		Recommended Limits	**41.50**	**0.90**	**20-25**
	Body	Measured, 25-Mar-06	52.66	.988	24
		Recommended Limits	**55.20**	**0.97**	**20-25**
1900	Head	Measured, 23-Mar-06	38.27	1.468	22.6
		Recommended Limits	**40.00**	**1.40**	**20-25**
	Body	Measured, 24-Mar-06	51.61	1.519	23.8
		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 900MHz Body	800MHz Body	1800/1900 MHz Head 1800MHz Body	1900MHz Body
Sugar	57.99%	56.00%	--	--
DGBE	--	--	44.92%	30.82%
Water	39.72%	41.76%	54.90%	68.89%
Salt	1.18%	0.76%	0.18%	0.29%
HEC	0.92%	1.21%	--	--
Bact.	0.19%	0.27%	--	--

5. System Accuracy Verification

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 all of the tests represented in this report, the ambient temperature of the laboratory was in the range 22.6-24.6°C, the relative humidity was 30.9%- 38.1 %, and the liquid depth above the ear and body reference points was more than 15.0 cm for 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 0.00139 W/kg, which is below the recommended limit in [1].

f (MHz)	Tissue Type	Description	SAR (W/kg) 1g	SAR (W/kg) 10g	Dielectric Parameters e_r	Dielectric Parameters s (S/m)	Tissue Temp (°C)
835	Head	Measured, 28-Mar-06	8.9	5.8	40.05	.887	23.1
		Recommended Limits	**9.50**	**6.20**	**41.50**	**0.90**	**20-25**
	Body	Measured, 25-Mar-06	9.5	6.3	52.66	.988	24
		Recommended Limits	**9.90**	**6.46**	**55.20**	**0.97**	**20-25**
1900	Head	Measured, 23-Mar-06	41.2	21.5	38.27	1.468	22.6
		Recommended Limits	**39.70**	**20.50**	**40.00**	**1.40**	**20-25**
	Body	Measured, 24-Mar-06	41.2	22.1	51.61	1.519	23.8
		Recommended Limits	**40.50**	**20.89**	**53.30**	**1.52**	**20-25**

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 DASY 3.1d SAR measurement system.

The Cellular Phone FCC ID PY7AF052031 has the following battery option:
BKB 193 203 (BST-33) 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.

During all of the tests represented in this report, the ambient temperature of the laboratory was in the range 22.6-24.6°C, the relative humidity was 30.9%- 38.1 %, and the liquid depth above the ear and body reference points was more than 15.0 cm for all the cases. 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	0.607	0.384	Right head, cheek/touch position, 849 MHz BST-33 battery
1900 GSM	1.42	0.769	Left head, cheek/touch position, 1910 MHz BST-33 battery

f (MHz)	Channel/ frequency	Conducted Output Power (dBm) GSM 1:8 Duty Cycle	FCC ID PY7AF052031 with Standard Battery BST-33 Left Head (Cheek / Touch Position)						
			Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		Ambient Temp (°C)	Simulant Temp (°C)
800 GSM	128 / 824	32.9	0.485	0.312	-0.05	0.485	0.312	23.5	23.1
	189 / 837	33.1	0.483	0.308	-0.01	0.483	0.308		
	251 / 849	**33.2**	**0.549**	**0.350**	**-0.01**	**0.549**	**0.350**		
1900 GSM	512 / 1850	30.2	1.250	0.681	0.00	1.250	0.681	22.8	22.6
	660/1880	30.0	1.310	0.708	0.06	1.310	0.708		
	810/1910	**30.2**	**1.420**	**0.769**	**0.09**	**1.420**	**0.769**		
Bluetooth on	810/1910	30.2	1.38	0.746	0.0	1.38	0.746	23.1	22.6

f (MHz)	Channel/ frequency	Conducted Output Power (dBm) GSM 1:8 Duty Cycle	FCC ID PY7AF052031 with Standard Battery BST-33 Left Head (15° Tilt Position)						
			Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		Ambient Temp (°C)	Simulant Temp (°C)
800 GSM	128 / 824	32.9	0.096	0.071	-0.04	0.096	0.071	23.6	23.5
	189 / 837	33.1	0.096	0.071	-0.08	0.096	0.071		
	251 / 849	**33.2**	**0.111**	**0.082**	**-0.04**	**0.111**	**0.082**		
1900 GSM	**512 / 1850**	**30.2**	**0.848**	**0.519**	**0.03**	**0.848**	**0.519**	22.6	22.5
	660/1880	30.0	0.791	0.476	0.04	0.791	0.476		
	810/1910	30.2	0.720	0.429	0.00	0.720	0.429		

Table 1: SAR measurement results for the portable cellular telephone FCC ID PY7AF052031 model W300i at maximum output power with Standard Battery BST-33. Measured against the left head.

f (MHz)	Channel/ frequency	Conducted Output Power (dBm) GSM 1:8 Duty Cycle	FCC ID PY7AF052031 with Standard Battery BST-33 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	32.9	0.536	0.341	0.04	0.536	0.341	23.6	23.4
	189 / 837	33.1	0.529	0.336	0.02	0.529	0.336		
	251 / 849	33.2	0.607	0.383	0.03	0.607	0.383		
Bluetooth On	**251 / 849**	**33.2**	**0.607**	**0.384**	**-0.12**	**0.607**	**0.384**	23.6	23.3
1900 GSM	512 / 1850	30.2	1.020	0.571	0.006	1.020	0.571	23	22.5
	660/1880	**30.0**	**1.100**	**0.610**	**-0.10**	**1.100**	**0.610**		
	810/1910	30.2	1.100	0.606	-0.10	1.100	0.606		

f (MHz)	Channel/ frequency	Conducted Output Power (dBm) GSM 1:8 Duty Cycle	FCC ID PY7AF052031 with Standard Battery BST-33 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	32.9	0.107	0.078	-0.07	0.107	0.078	23.6	23.3
	189 / 837	33.1	0.108	0.079	-0.10	0.108	0.079		
	251 / 849	**33.2**	**0.126**	**0.091**	**-0.06**	**0.126**	**0.091**		
1900 GSM	**512 / 1850**	**30.2**	**0.797**	**0.496**	**0.06**	**0.797**	**0.496**	23.1	22.6
	660/1880	30.0	0.737	0.454	0.03	0.737	0.454		
	810/1910	30.2	0.608	0.374	-0.02	0.608	0.374		

Table 2: SAR measurement results for the portable cellular telephone FCC ID PY7AF052031 model W300i at maximum output power with Standard Battery BST-33. Measured against the right head.

6.2 Body-Worn Test Results

The SAR results shown in Tables 3 and 4 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. During all of the tests represented in this report, the ambient temperature of the laboratory was in the range 22.6-24.6°C, the relative humidity was 30.9%- 38.1 %, and the liquid depth above the ear and body reference points was more than 15.0 cm for all the cases.

A "flat" phantom was used for the body-worn tests. This "flat" phantom corresponds to the flat portion of the SAM phantom. 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 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	1.08	0.724	15mm Spacer Carry Accessory, back of phone facing body, 849 MHz, 2:8 Duty Cycle, BST-33 battery
1900 GSM	1.36	0.863	ICE-26 Carry Accessory, back of phone facing body, 1910 MHz, 2:8 Duty Cycle BST-33 battery

f (MHz)	Operating Condition	Channel/ frequency	Conducted Output Power (dBm)	FCC ID PY7AF052031 with Standard Battery BST-33 Body Worn Carry Accessory: 15mm Spacer Back of phone facing body						
				Measured (W/kg) 1g / 10g	Drift (dB)	Extrapolated (W/kg) 1g / 10g			Ambient Temp (°C)	Simulate Temp (°C)
Back of phone facing body										
800 GSM	2:8 Duty Cycle	128 / 824	32.9	0.890	0.601	-0.17	0.890	0.601	24.3	24
		189 / 837	33.1	0.861	0.579	0.00	0.861	0.579		
		251 / 849	**33.2**	**1.08**	**0.724**	**-0.09**	**1.08**	**0.724**		
	Bluetooth On	251 / 849	33.2	1.03	0.695	0.00	1.03	0.695	24.5	24.2
1900 GSM	2:8 Duty Cycle	512 / 1850	30.2	0.945	0.612	-0.02	0.945	0.612	24.2	23.8
		660/1880	30.0	1.060	0.682	0.01	1.060	0.682		
		810/1910	**30.2**	**1.200**	**0.771**	**-0.10**	**1.200**	**0.771**		
Front of phone facing body										
800 GSM	2:8 Duty Cycle	128 / 824	32.9	0.191	0.136	-0.03	0.191	0.136	24.5	24.1
		189 / 837	33.1	0.189	0.135	0.01	0.189	0.135		
		251 / 849	**33.2**	**0.198**	**0.140**	**-0.06**	**0.198**	**0.140**		
1900 GSM	2:8 Duty Cycle	**512 / 1850**	**30.2**	**0.322**	**0.206**	**0.06**	**0.322**	**0.206**	24	23.7
		660/1880	30.0	0.271	0.174	-0.10	0.271	0.174		
		810/1910	30.2	0.224	0.145	-0.01	0.224	0.145		

Table 3: SAR measurement results for the portable cellular telephone FCC ID PY7AF052031 model W300i at maximum output power with Standard Battery BST-33. Measured against the body with carry accessory 15mm Spacer.

f (MHz)	Operating Condition	Channel/ frequency	Conducted Output Power (dBm)	FCC ID PY7AF052031 with Standard Battery BST-33 Body Worn Carry Accessory: ICE-26 Carry Case 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	32.9	0.464	0.321	-0.12	0.464	0.321	24.6	24.2
		189 / 837	33.1	0.570	0.396	0.00	0.570	0.396		
		251 / 849	**33.2**	**0.730**	**0.507**	**-0.12**	**0.730**	**0.507**		
1900 GSM	2:8 Duty Cycle	512 / 1850	30.2	0.771	0.500	0.05	0.771	0.500	24.2	23.6
		660/1880	30.0	0.864	0.561	0.10	0.864	0.561		
		810/1910	**30.2**	**1.360**	**0.863**	**0.02**	**1.360**	**0.863**		
	Bluetooth On	810/1910	30.2	0.972	0.626	-0.01	0.972	0.626	24	23.7
Front of phone facing body										
800 GSM	2:8 Duty Cycle	128 / 824	32.9	0.137	0.098	-0.12	0.137	0.098	24.5	24.2
		189 / 837	33.1	0.134	0.094	0.03	0.134	0.094		
		251 / 849	**33.2**	**0.165**	**0.117**	**-0.10**	**0.165**	**0.117**		
1900 GSM	2:8 Duty Cycle	**512 / 1850**	**30.2**	**0.411**	**0.259**	**0.00**	**0.411**	**0.259**	24.5	23.7
		660/1880	30.0	0.307	0.197	-0.06	0.307	0.197		
		810/1910	30.2	0.246	0.158	-0.02	0.246	0.158		

Table 4: SAR measurement results for the portable cellular telephone FCC ID PY7AF052031 model W300i at maximum output power with Standard Battery BST-33. Measured against the body with carry accessory ICE-26.

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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.

Prepared (also subject responsible if other)		No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon		REP 2006 003 W300i 02	
Approved	Checked		
SEM/CV/PF/P Gerard Hayes		A	X:\SAR Chamber\FCC reports\W300I\Final Reports\FCCW300I.doc

Appendix 1

SAR distribution comparison for the system accuracy verification

835 MHz SAR Distribution of Validation Dipole Antenna
System Performance Check on March 28, 2006 (Using head tissue).
Validation_835Head_429_1251_28Mar06_T01

File Name: Validation_835Head_429_1251_28Mar06_T01.da4

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

Probe: ET3DV6 - SN1586 ConvF(6.58, 6.58, 6.58)Duty Cycle: 1:1Frequency: 835 MHz

Medium parameters used: f = 835 MHz; s = 0.887mho/m; e_r = 40.1; ? = 1000 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) = 0.944 mW/g

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

Reference Value = 32.7 V/m; Power Drift = -0.023 dB

Peak SAR (extrapolated) = 1.31 W/kg

SAR(1 g) = 0.883 mW/g; SAR(10 g) = 0.577 mW/g

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

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

Reference Value = 32.7 V/m; Power Drift = -0.023 dB

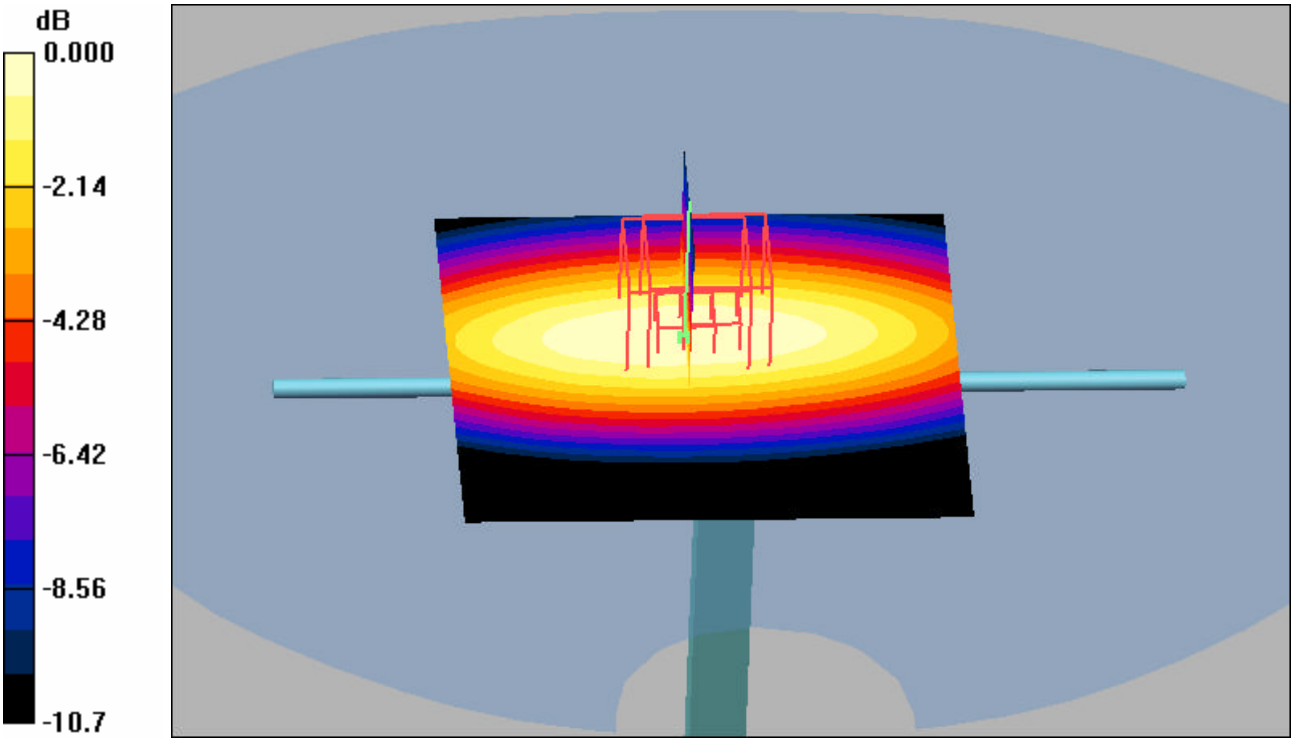
Peak SAR (extrapolated) = 1.29 W/kg

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

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

Procedure Notes: Pin: before 99.5 mW / after 99.7 mW

Humidity: 34.6% Ambient Temp: 23.5 C Simulant Temp: 23.1 C



0 dB = 0.926mW/g

835 MHz SAR Distribution of Validation Dipole Antenna
System Performance Check on March 25, 2006 (Using body tissue).
Validation_835Body_429_1031_25Mar06_T01

File Name: Validation_835Body_429_1031_25Mar06_T01.da4

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

Probe: ET3DV6 - SN1539ConvF(5.88, 5.88, 5.88)Duty Cycle: 1:1Frequency: 835 MHz

Medium parameters used: f = 835 MHz; s = 0.989 mho/m; e_r = 52.7; ? = 1000 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) = 1.04 mW/g

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

Reference Value = 33.6 V/m; Power Drift = 0.009 dB

Peak SAR (extrapolated) = 1.40 W/kg

SAR(1 g) = 0.964 mW/g; SAR(10 g) = 0.632 mW/g

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

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

Reference Value = 33.6 V/m; Power Drift = 0.009 dB

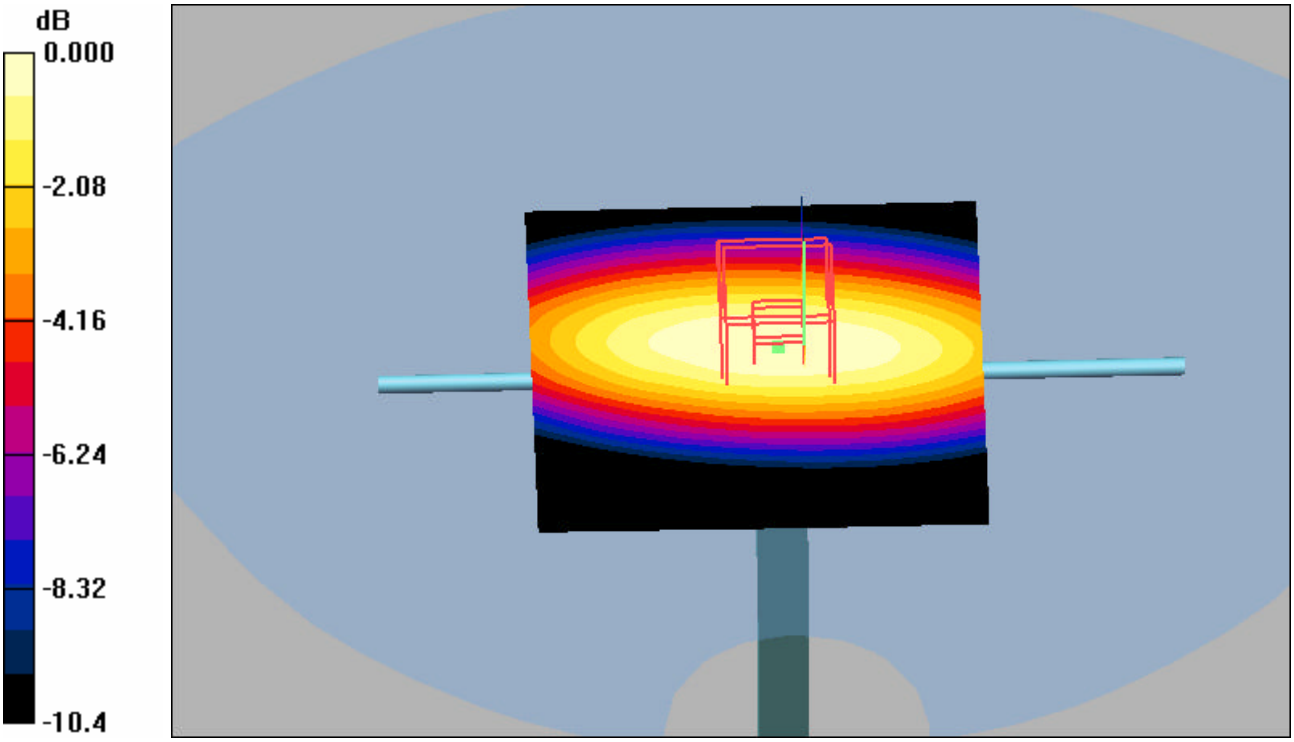
Peak SAR (extrapolated) = 1.37 W/kg

SAR(1 g) = 0.935 mW/g; SAR(10 g) = 0.613 mW/g

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

Procedure Notes: Pin: before 99.6mW / after 99.5mW

Humidity - 32.1% Ambient Temp - 24.3 C Simulant Temp - 24 C



0 dB = 1.01mW/g

1900 MHz SAR Distribution of Validation Dipole Antenna
System Performance Check on March 23, 2006 (Using head tissue).
Validation_1900Head_537_1335_23Mar06_T01

File Name: Validation_1900Head_537_1335_23Mar06_T01.da4

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

Probe: ET3DV6 - SN1539ConvF(4.55, 4.55, 4.55)Duty Cycle: 1:1Frequency: 1900 MHz

Medium parameters used: f = 1900 MHz; s = 1.47 mho/m; e_r = 38.3; ? = 1000 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) = 5.15 mW/g

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

Reference Value = 59.1 V/m; Power Drift = -0.008 dB

Peak SAR (extrapolated) = 7.28 W/kg

SAR(1 g) = 4.18 mW/g; SAR(10 g) = 2.18 mW/g

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

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

Reference Value = 59.1 V/m; Power Drift = -0.008 dB

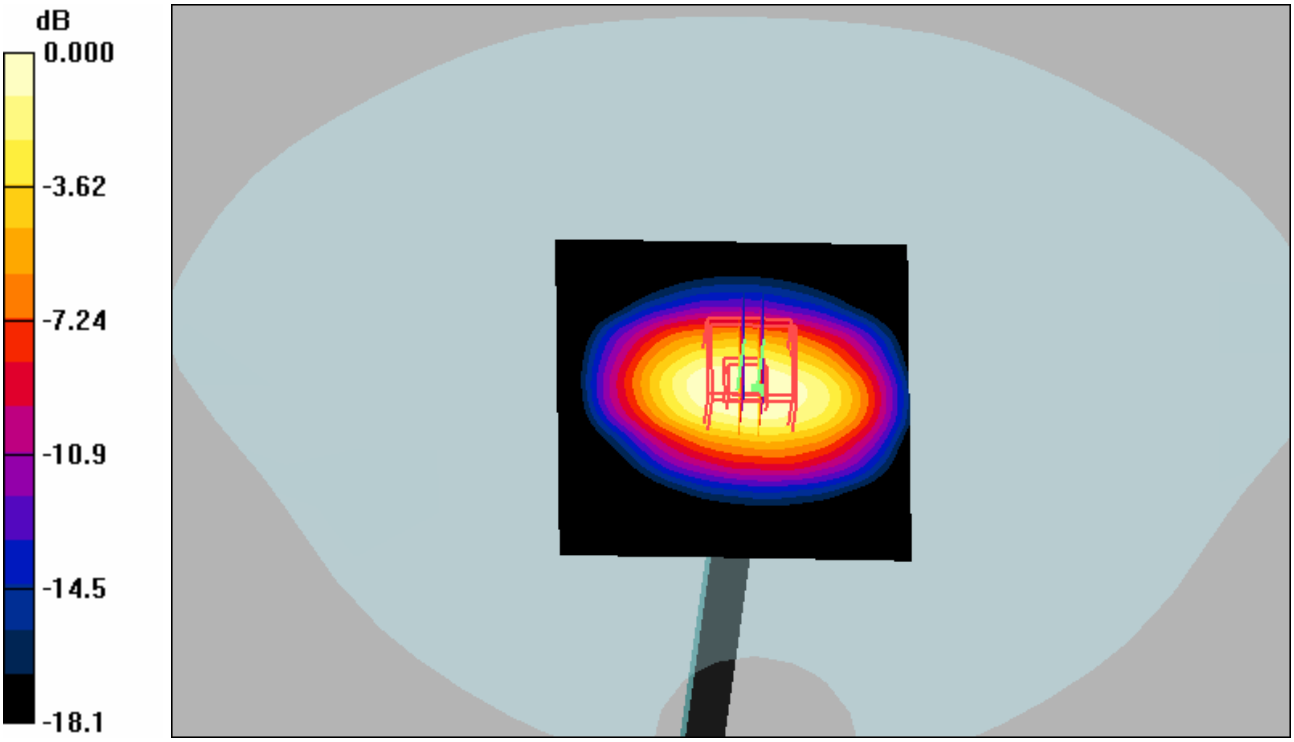
Peak SAR (extrapolated) = 7.05 W/kg

SAR(1 g) = 4.04 mW/g; SAR(10 g) = 2.11 mW/g

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

Procedure Notes: Pin: before 99.5 mW / after 99.9 mW

Humidity: 35.7% Ambient Temp: 22.8 C Simulant Temp: 22.6 C



0 dB = 4.57mW/g

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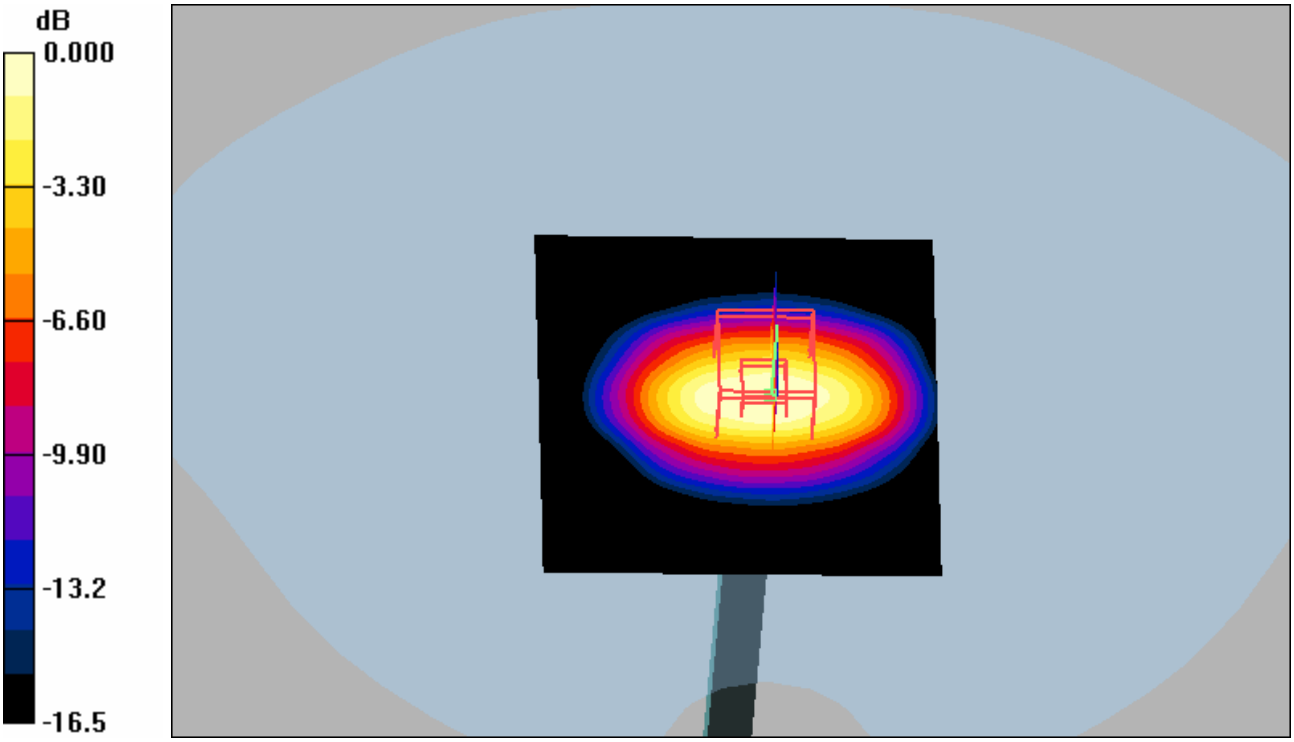
1900 MHz SAR Distribution of Validation Dipole Antenna
System Performance Check on March 24, 2005 (Using body tissue).
Validation_1900Body_537_1335_24Mar06_T01

File Name: Validation_1900Body_537_1335_24Mar06_T01.da4
Phantom: SAM with CRP (High Band Body)Phantom section: Flat Section
Probe: ET3DV6 - SN1539ConvF(4.12, 4.12, 4.12)Duty Cycle: 1:1Frequency: 1900 MHz
Medium parameters used: f = 1900 MHz; s = 1.52 mho/m; e_r = 51.6; ? = 1000 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) = 5.26 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 = 0.023 dB
Peak SAR (extrapolated) = 7.01 W/kg
SAR(1 g) = 4.17 mW/g; SAR(10 g) = 2.24 mW/g
Maximum value of SAR (measured) = 4.69 mW /g
Dipole at 10 mm/Zoom Scan 2 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 58.4 V/m; Power Drift = 0.023 dB
Peak SAR (extrapolated) = 6.91 W/kg
SAR(1 g) = 4.08 mW/g; SAR(10 g) = 2.19 mW/g
Maximum value of SAR (measured) = 4.64 mW/g
Procedure Notes: Pin: before 100.2 mW / after 100.2 mW
Humidity - 37.6 % Ambient Temp - 24.2 C Simulant Temp - 23.8 C



0 dB = 4.64mW/g

Appendix 2

SAR distribution plots for Phantom Head Adjacent Use

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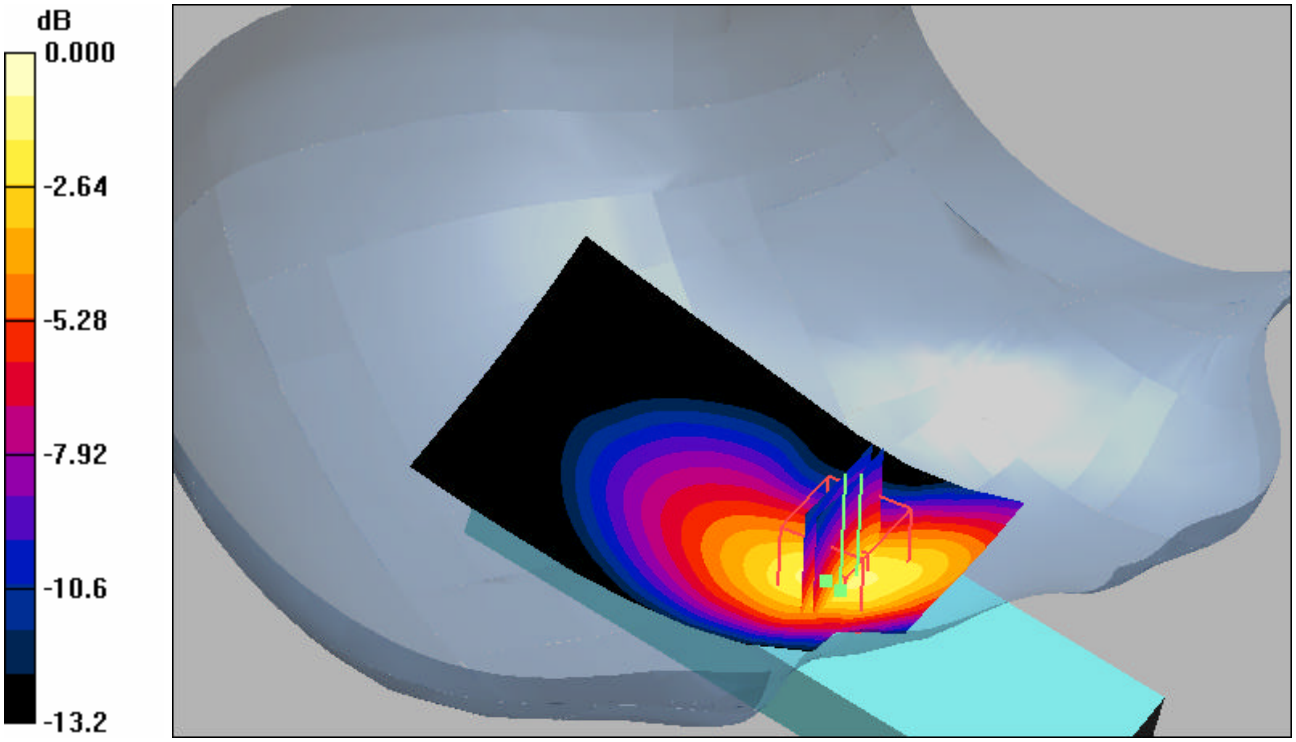
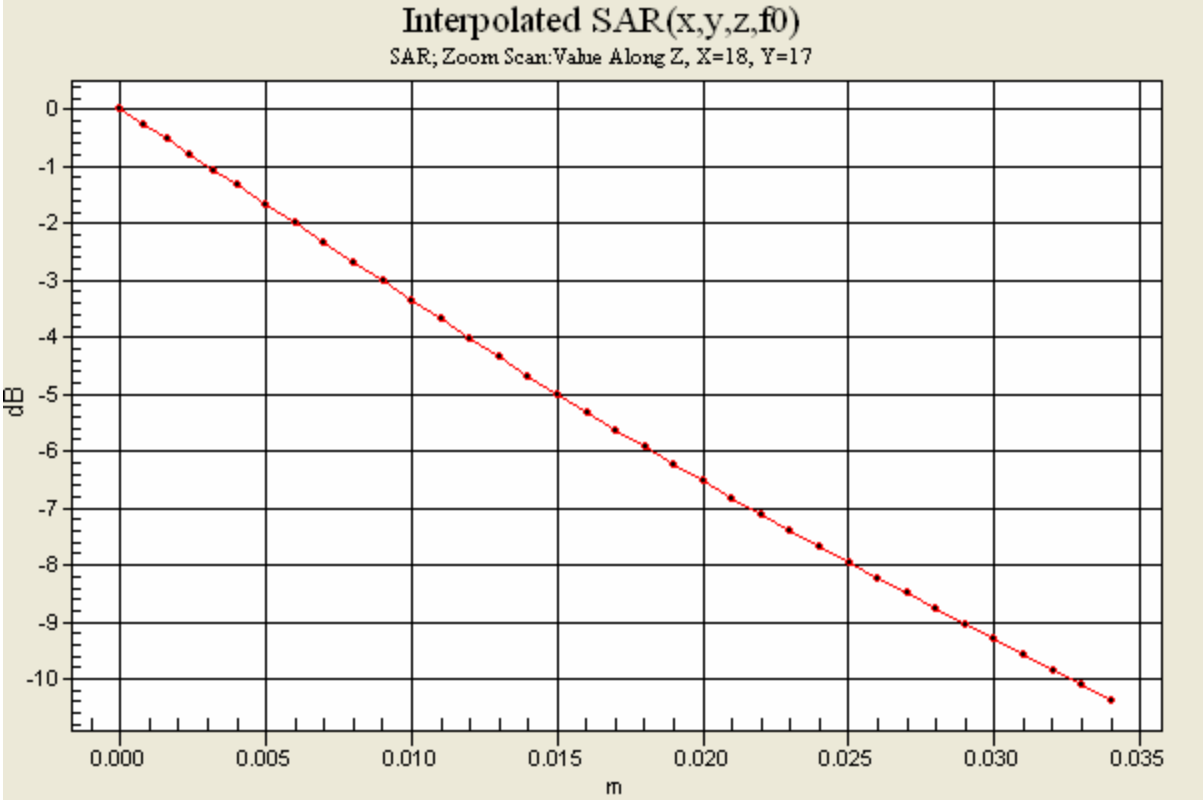
800 GSM Band: SAR Distribution and Extrapolation of Maximum SAR
Model: W300i SN: BDX0000EUN with Standard Battery: BST-33
Right Side, Cheek/Touch Position.

Date/Time: 3/28/2006 11:01:07 AM
File Name: 28Mar06_W300i_GSM800_0EUN_RC01.da4
DUT: W300i
Program Notes: Battery - BST33 Humidity - 34.5% Ambient Temp - 23.6 C Simulant Temp - 23.4 C
Communication System: GSM 850; Frequency: 849 MHz;Duty Cycle: 1:8.3
Medium: Head 835/900 MHzMedium parameters used (interpolated): f = 849 MHz; s = 0.899 mho/m; e_r = 39.9; ? = 1000 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 Sn416; Calibrated: 11/10/2005
- Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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) = 0.647 mW/g
Unnamed procedure 3/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.12 V/m; Power Drift = 0.027 dB
Peak SAR (extrapolated) = 0.900 W/kg
SAR(1 g) = 0.607 mW/g; SAR(10 g) = 0.383 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.656 mW/g
Unnamed procedure 3/Zoom Scan (31x31x36)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.12 V/m; Power Drift = 0.027 dB
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.900 mW/g



0 dB = 0.900mW/g


Interpolated SAR(x,y,z,f0)
SAR; Zoom Scan:Value Along Z, X=18, Y=17
dB
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
0.000
0.005
0.010
0.015
0.020
0.025
0.030
0.035
m

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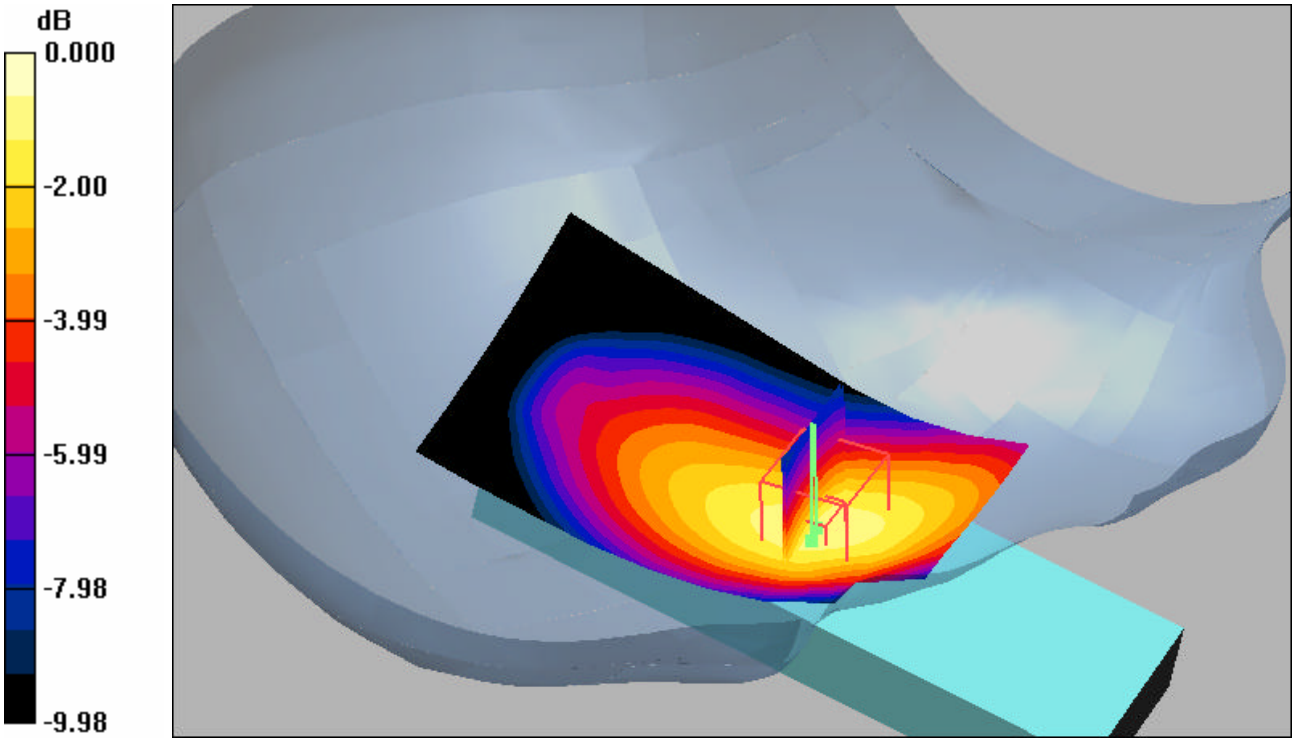
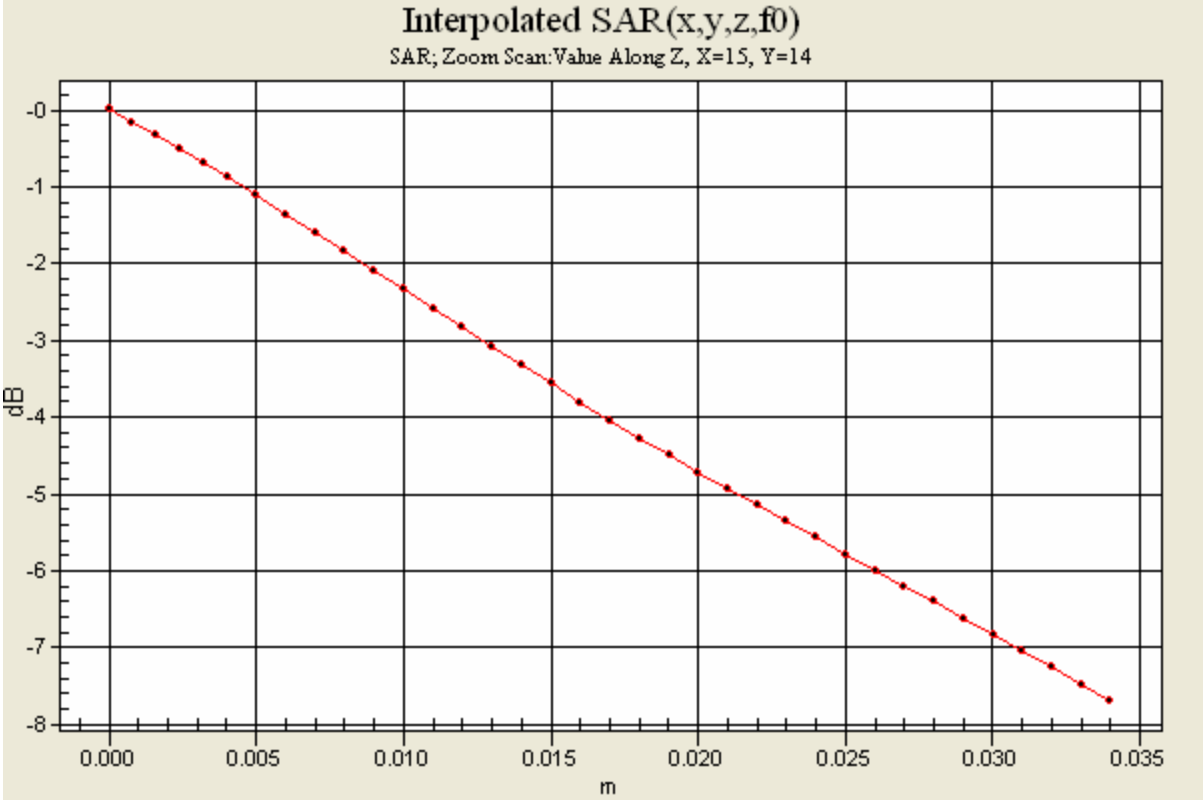
800 GSM Band: Distribution and Extrapolation of Maximum SAR
Model: W300i SN: BDX0000EUN with Standard Battery: BST-33
Right Side, Cheek/Tilt Position.

Date/Time: 3/28/2006 11:24:59 AM
File Name: 28Mar06_W300i_GSM800_0EUN_RT01.da4
DUT: W300i
Program Notes: Battery - BST33 Humidity - 34% Ambient Temp - 23.6 C Simulant Temp - 23.3 C
Communication System: GSM 850; Frequency: 849 MHz;Duty Cycle: 1:8.3
Medium: Head 835/900 MHzMedium parameters used (interpolated): f = 849 MHz; s = 0.899 mho/m; e_r = 39.9; ? = 1000 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 Sn416; Calibrated: 11/10/2005
- Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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) = 0.137 mW/g
Unnamed procedure 3/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.68 V/m; Power Drift = -0.064 dB
Peak SAR (extrapolated) = 0.165 W/kg
SAR(1 g) = 0.126 mW/g; SAR(10 g) = 0.091 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.135 mW/g
Unnamed procedure 3/Zoom Scan (31x31x36)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.68 V/m; Power Drift = -0.064 dB
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.165 mW/g



0 dB = 0.165mW/g


Interpolated SAR(x,y,z,f0)
SAR; Zoom Scan:Value Along Z, X=15, Y=14
dB
-0
-1
-2
-3
-4
-5
-6
-7
-8
0.000
0.005
0.010
0.015
0.020
0.025
0.030
0.035
m

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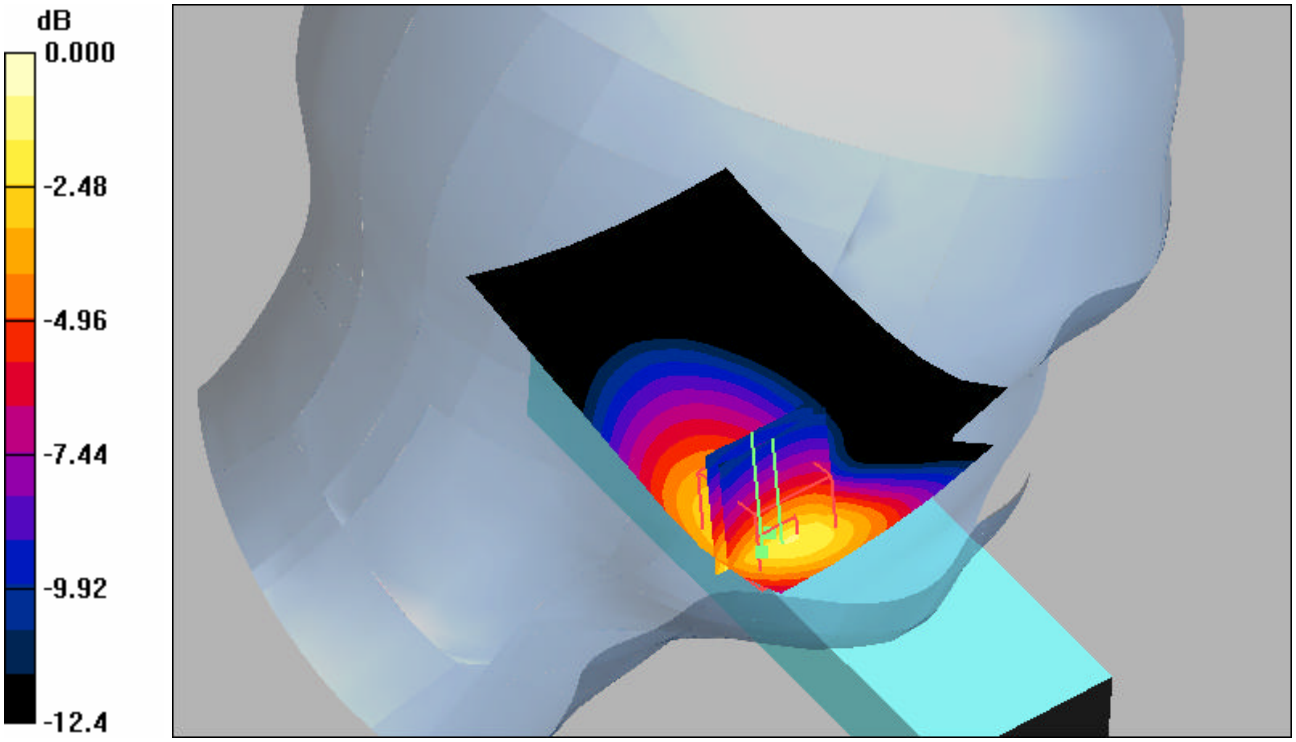
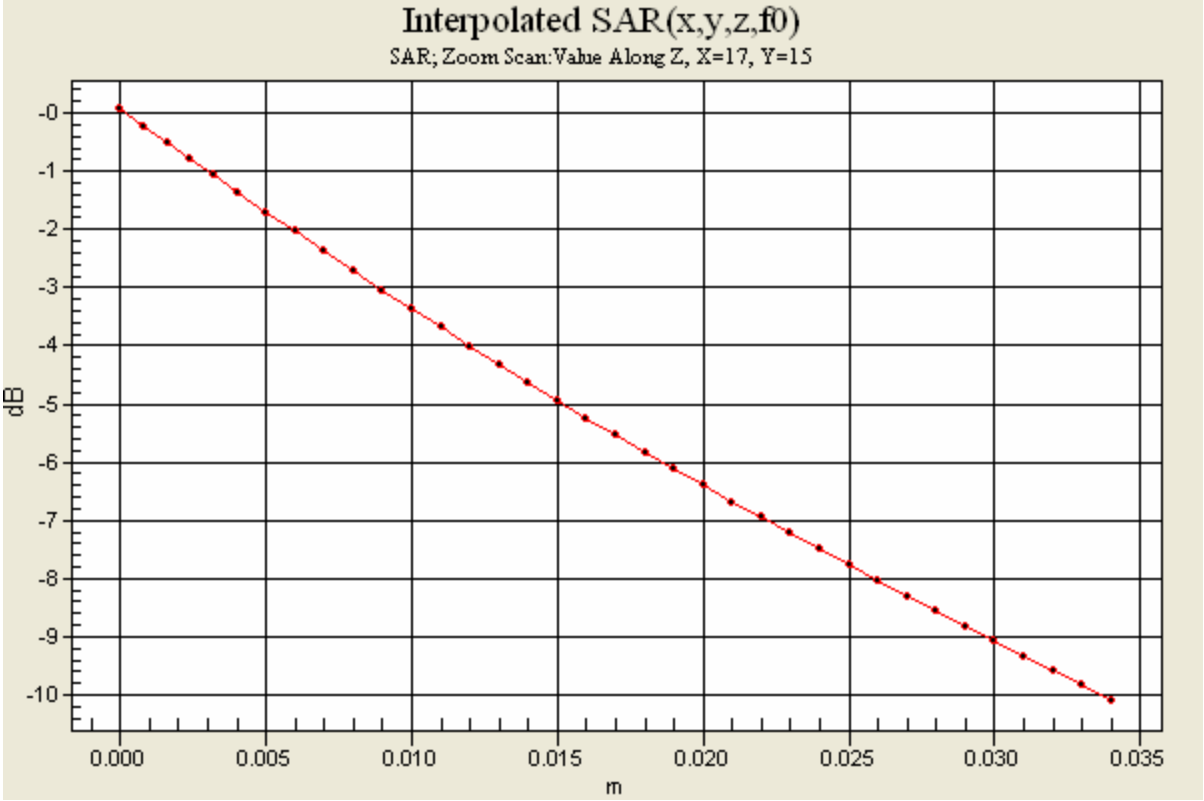
800 GSM Band: Distribution and Extrapolation of Maximum SAR
Model: W300i SN: BDX0000EUN with Standard Battery: BST-33
Left Side, Cheek/Touch Position.

Date/Time: 3/28/2006 8:53:08 AM
File Name: 28Mar06_W300i_GSM800_0EUN_LC01.da4
DUT: W300i
Program Notes: Battery - BST33 Humidity - 34.6 % Ambient Temp - 23.5 C Simulant Temp - 23.1 C
Communication System: GSM 850; Frequency: 849 MHz;Duty Cycle: 1:8.3
Medium: Head 835/900 MHzMedium parameters used (interpolated): f = 849 MHz; s = 0.899 mho/m; e_r = 39.9; ? = 1000 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 Sn416; Calibrated: 11/10/2005
- Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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) = 0.592 mW/g
Unnamed procedure 3/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 5.63 V/m; Power Drift = -0.012 dB
Peak SAR (extrapolated) = 0.824 W/kg
SAR(1 g) = 0.549 mW/g; SAR(10 g) = 0.350 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.592 mW/g
Unnamed procedure 3/Zoom Scan (31x31x36)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 5.63 V/m; Power Drift = -0.012 dB
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.824 mW/g



0 dB = 0.824mW/g


Interpolated SAR(x,y,z,f0)
SAR; Zoom Scan:Value Along Z, X=17, Y=15
dB
-0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
0.000
0.005
0.010
0.015
0.020
0.025
0.030
0.035
m

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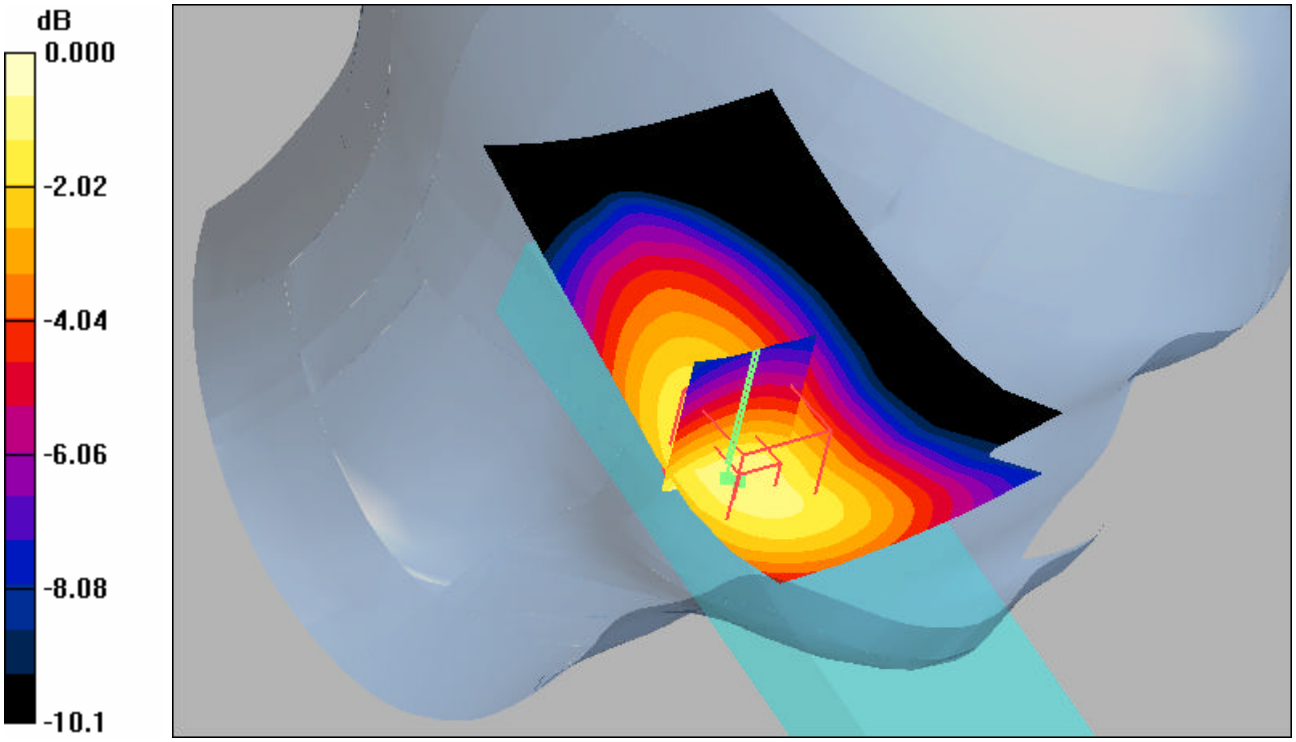
800 GSM Band: Distribution and Extrapolation of Maximum SAR
Model: W300i SN: BDX0000EUN with Standard Battery: BST-33
Left Side, Tilt Position.

Date/Time: 3/28/2006 9:13:33 AM
File Name: 28Mar06_W300i_GSM800_0EUN_LT01.da4
DUT: W300i
Program Notes: Battery - BST33 Humidity - 33.8% Ambient Temp - 23.6 C Simulant Temp - 23.5 C
Communication System: GSM 850; Frequency: 849 MHz;Duty Cycle: 1:8.3
Medium: Head 835/900 MHzMedium parameters used (interpolated): f = 849 MHz; s = 0.899 mho/m; e_r = 39.9; ? = 1000 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 Sn416; Calibrated: 11/10/2005
- Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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) = 0.118 mW/g
Unnamed procedure 3/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 5.89 V/m; Power Drift = -0.035 dB
Peak SAR (extrapolated) = 0.144 W/kg
SAR(1 g) = 0.111 mW/g; SAR(10 g) = 0.082 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.116 mW/g
Unnamed procedure 3/Zoom Scan (31x31x36)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 5.89 V/m; Power Drift = -0.035 dB
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.144 mW/g



0 dB = 0.144mW/g

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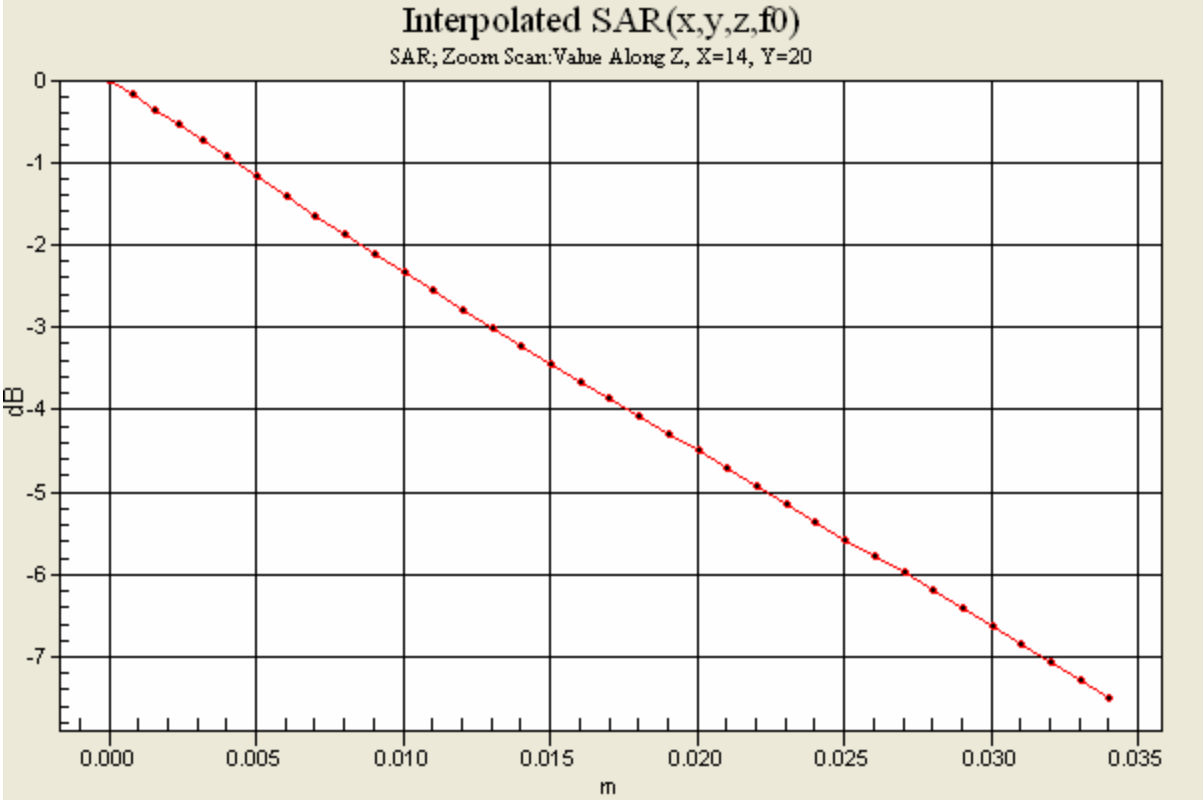

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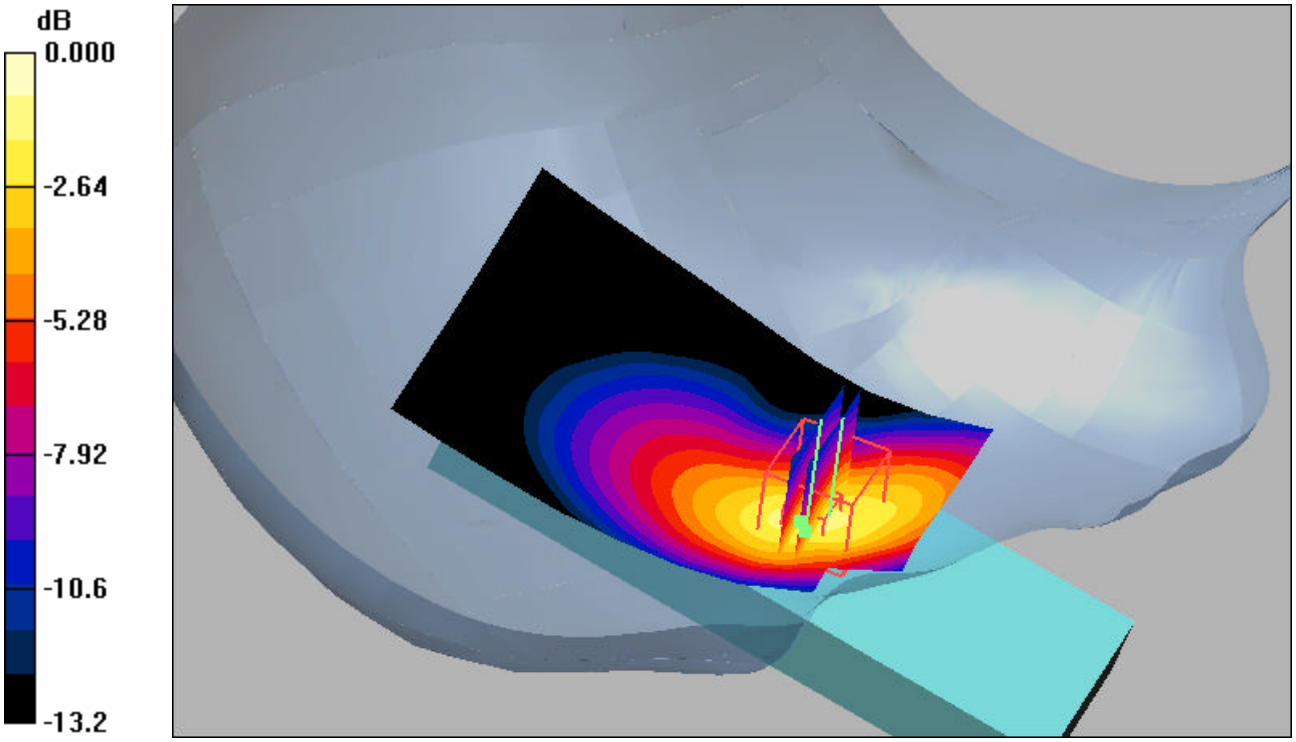
SEM/CV/PF/P Gerard Hayes		A	X:\SAR Chamber\FCC reports\W300I\Final Reports\FCCW300I.doc

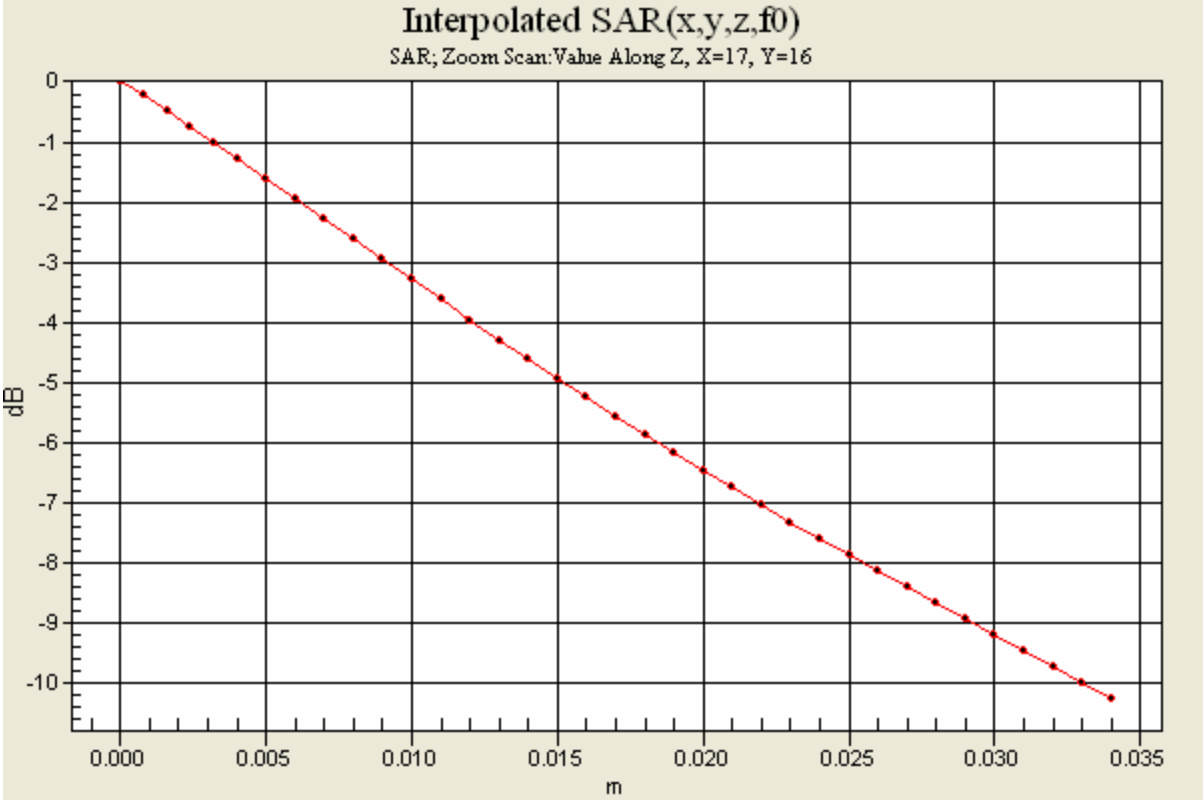
800 GSM Band: Distribution and Extrapolation of Maximum SAR
Model: W300i SN: BDX0000EUN with Standard Battery: BST-33
Right Side, Cheek/Touch Position with Blue Tooth.

Date/Time: 3/28/2006 1:29:14 PM
File Name: 28Mar06_W300i_GSM800_0EUN_BT_RC01.da4
DUT: W300i
Program Notes: Battery - BST33 Humidity - 34% Ambient Temp - 23.6 C Simulant Temp - 23.3 C
Communication System: GSM 850; Frequency: 849 MHz;Duty Cycle: 1:8.3
Medium: Head 835/900 MHzMedium parameters used (interpolated): f = 849 MHz; s = 0.899 mho/m; e_r = 39.9; ? = 1000 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 Sn416; Calibrated: 11/10/2005
- Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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) = 0.648 mW/g
Unnamed procedure 3/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.30 V/m; Power Drift = -0.121 dB
Peak SAR (extrapolated) = 0.894 W/kg
SAR(1 g) = 0.607 mW/g; SAR(10 g) = 0.384 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.658 mW/g
Unnamed procedure 3/Zoom Scan (31x31x36)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.30 V/m; Power Drift = -0.121 dB
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.894 mW/g



0 dB = 0.894mW/g


Interpolated SAR(x,y,z,f0)
SAR; Zoom Scan:Value Along Z, X=17, Y=16
dB
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
0.000
0.005
0.010
0.015
0.020
0.025
0.030
0.035
m

Prepared (also subject responsible if other)		No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon		REP 2006 003 W300i 02	
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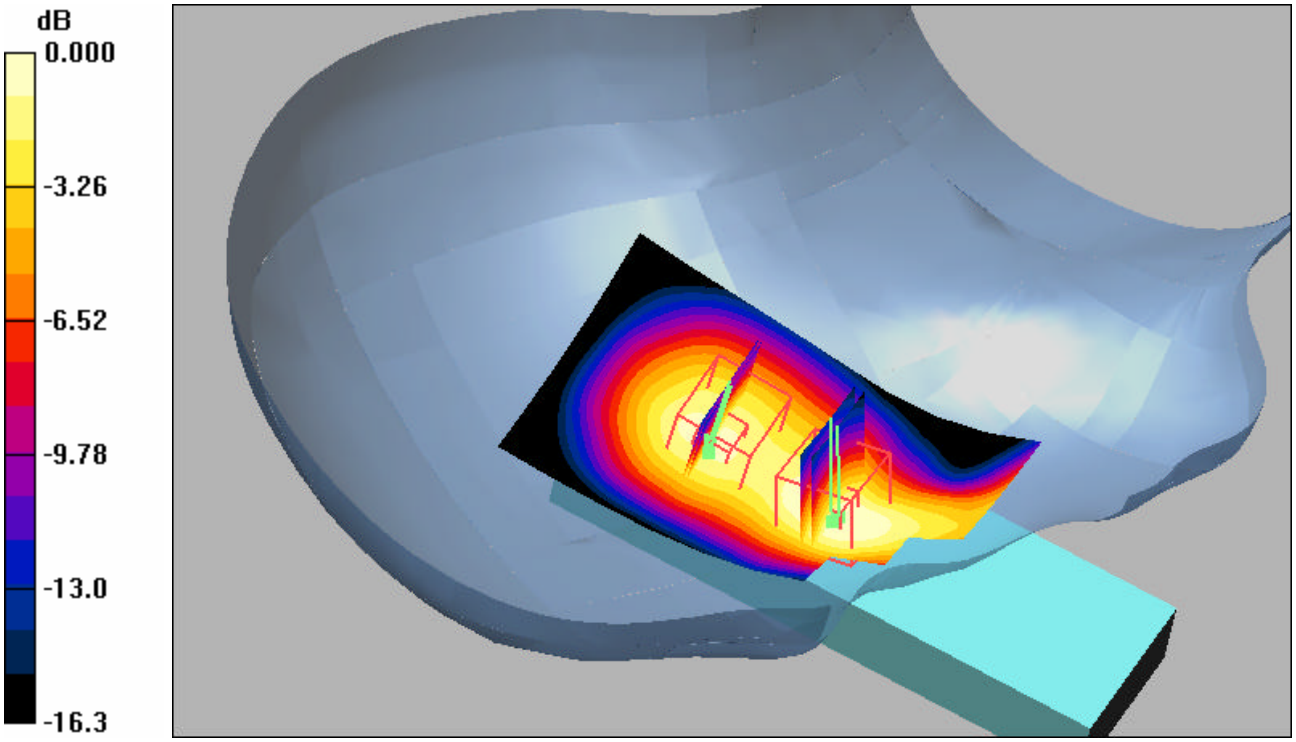
SEM/CV/PF/P Gerard Hayes		A	X:\SAR Chamber\FCC reports\W300I\Final Reports\FCCW300I.doc

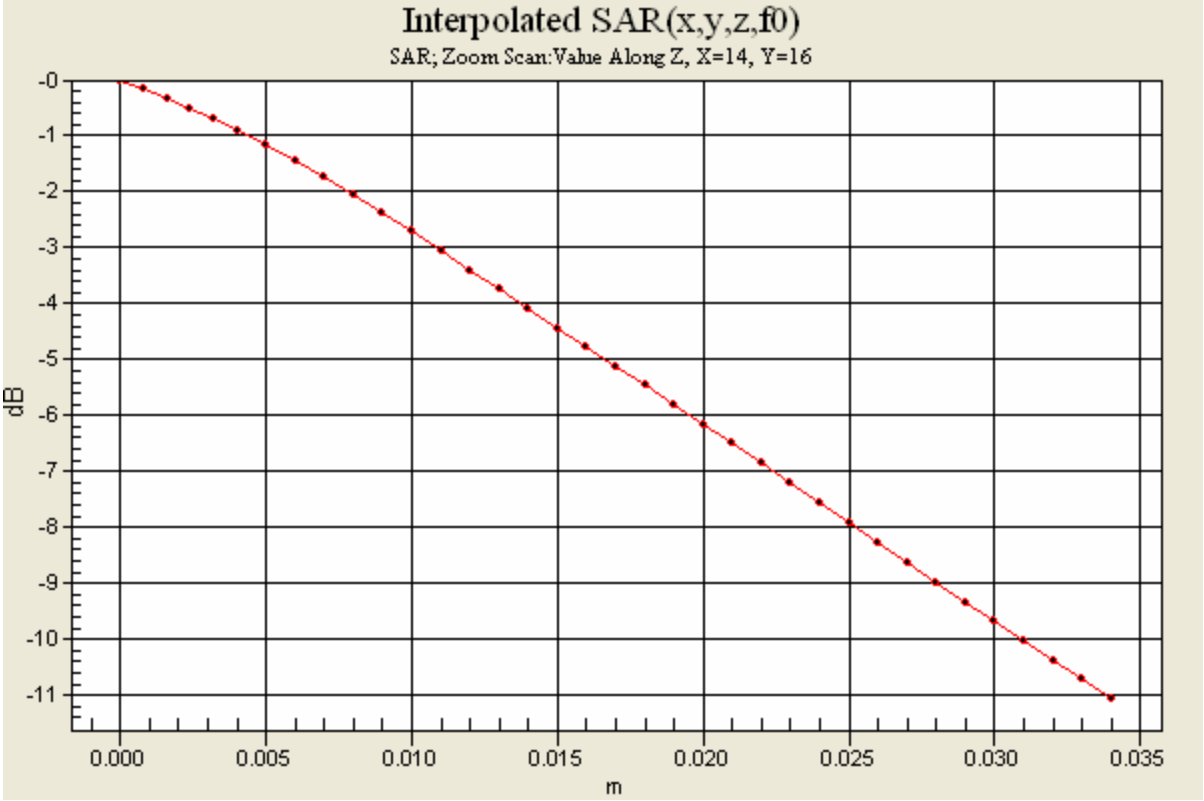
1900 GSM Band: Distribution and Extrapolation of Maximum SAR
Model: W300i SN: BDX0000ES1 with Standard Battery: BST-33
Right Side, Cheek/Touch Position.

Date/Time: 3/23/2006 12:49:38 PM
File Name: 23Mar06_W300i_GSM1900_0ES1_RC01.da4
DUT: W300i
Program Notes: Battery - BST33 Humidity - 36.2% Ambient Temp - 23 C Simulant Tem - 22.5 C
Communication System: DCS 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: Head 1800/1900 MHzMedium parameters used: f = 1880 MHz; s = 1.45 mho/m; e_r = 38.4; ? = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1539; ConvF(4.55, 4.55, 4.55); Calibrated: 11/22/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/10/2005
- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Unnamed procedure 2/Area Scan (51x81x1):
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.21 mW/g
Unnamed procedure 2/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 25.0 V/m; Power Drift = -0.099 dB
Peak SAR (extrapolated) = 1.85 W/kg
SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.610 mW/g
Maximum value of SAR (measured) = 1.23 mW/g
Unnamed procedure 2/Zoom Scan (7x7x7)/Cube 1:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 25.0 V/m; Power Drift = -0.099 dB
Peak SAR (extrapolated) = 1.13 W/kg
SAR(1 g) = 0.848 mW/g; SAR(10 g) = 0.546 mW/g
Maximum value of SAR (measured) = 0.921 mW/g
Unnamed procedure 2/Zoom Scan (31x31x36)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 25.0 V/m; Power Drift = -0.099 dB
Maximum value of SAR (interpolated) = 1.85 mW/g
Unnamed procedure 2/Zoom Scan (31x31x36)/Cube 1:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 25.0 V/m; Power Drift = -0.099 dB
Maximum value of SAR (interpolated) = 1.13 mW/g



0 dB = 1.13mW/g


Interpolated SAR(x,y,z,f0)
SAR; Zoom Scan:Value Along Z, X=14, Y=16
dB
-0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
-11
0.000
0.005
0.010
0.015
0.020
0.025
0.030
0.035
m

Prepared (also subject responsible if other)		No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon		REP 2006 003 W300i 02	
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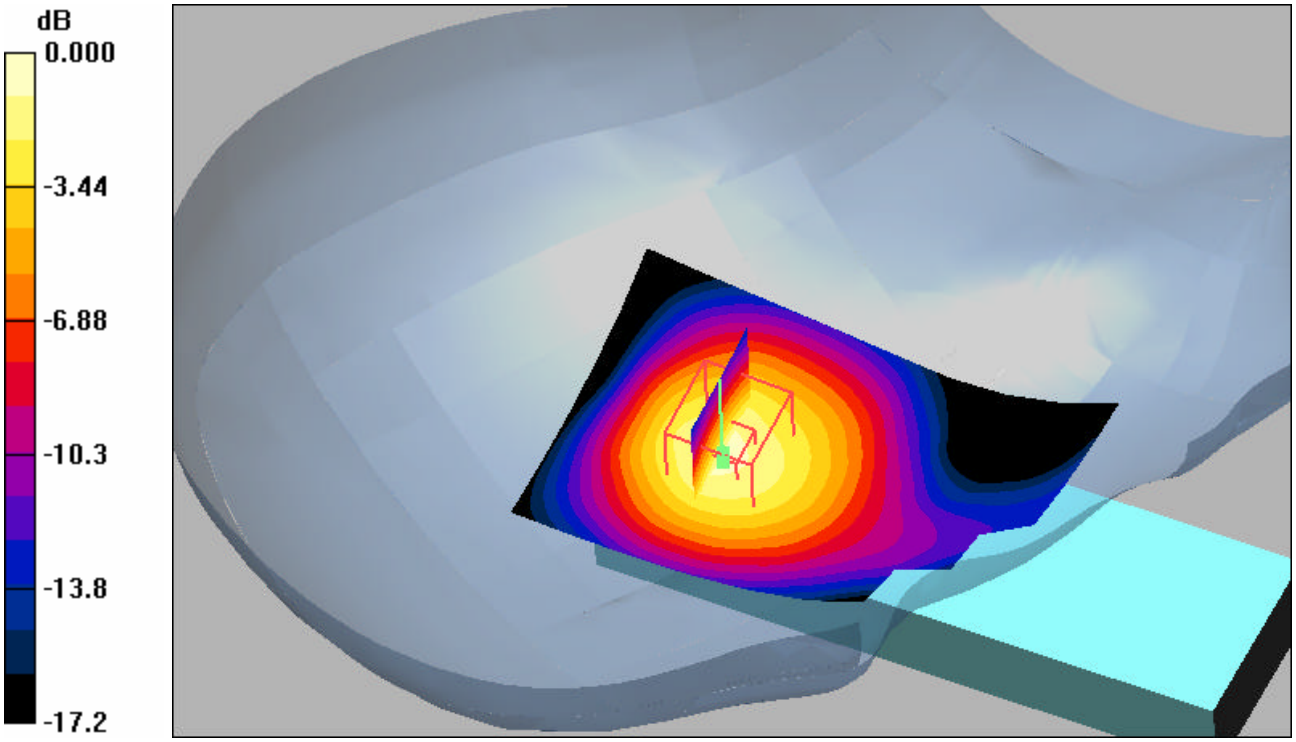
SEM/CV/PF/P Gerard Hayes		A	X:\SAR Chamber\FCC reports\W300I\Final Reports\FCCW300I.doc

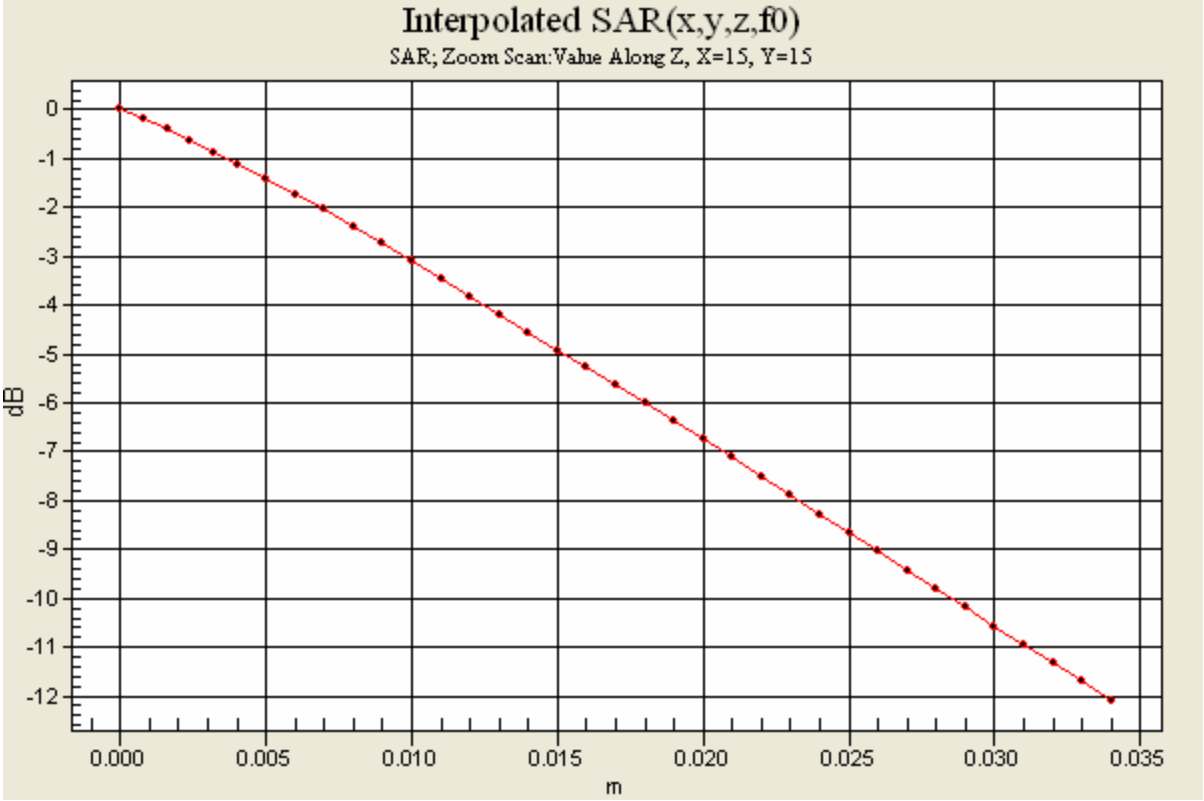
1900 GSM Band: Distribution and Extrapolation of Maximum SAR
Model: W300i SN: BDX0000ES1 with Standard Battery: BST-33
Right Side, Tilt Position.

Date/Time: 3/23/2006 1:54:12 PM
File Name: 23Mar06_W300i_GSM1900_0ES1_RT01.da4
DUT: W300i
Program Notes: Battery - BST33 Humidity - 36.6% Ambient Temp - 23.1 C Simulant Tem - 22.6 C
Communication System: DCS 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium: Head 1800/1900 MHzMedium parameters used (interpolated): f = 1850.2 MHz; s = 1.43 mho/m; e_r = 38.5; ? = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1539; ConvF(4.55, 4.55, 4.55); Calibrated: 11/22/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/10/2005
- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Unnamed procedure/Area Scan (51x81x1):
Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.956 mW/g
Unnamed procedure/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.31 V/m; Power Drift = 0.055 dB
Peak SAR (extrapolated) = 1.12 W/kg
SAR(1 g) = 0.797 mW/g; SAR(10 g) = 0.496 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.868 mW/g
Unnamed procedure/Zoom Scan (31x31x36)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.31 V/m; Power Drift = 0.055 dB
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 1.12 mW/g



0 dB = 1.12mW/g


Interpolated SAR(x,y,z,f0)
SAR; Zoom Scan:Value Along Z, X=15, Y=15
dB
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
-11
-12
0.000
0.005
0.010
0.015
0.020
0.025
0.030
0.035
m

Prepared (also subject responsible if other)		No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon		REP 2006 003 W300i 02	
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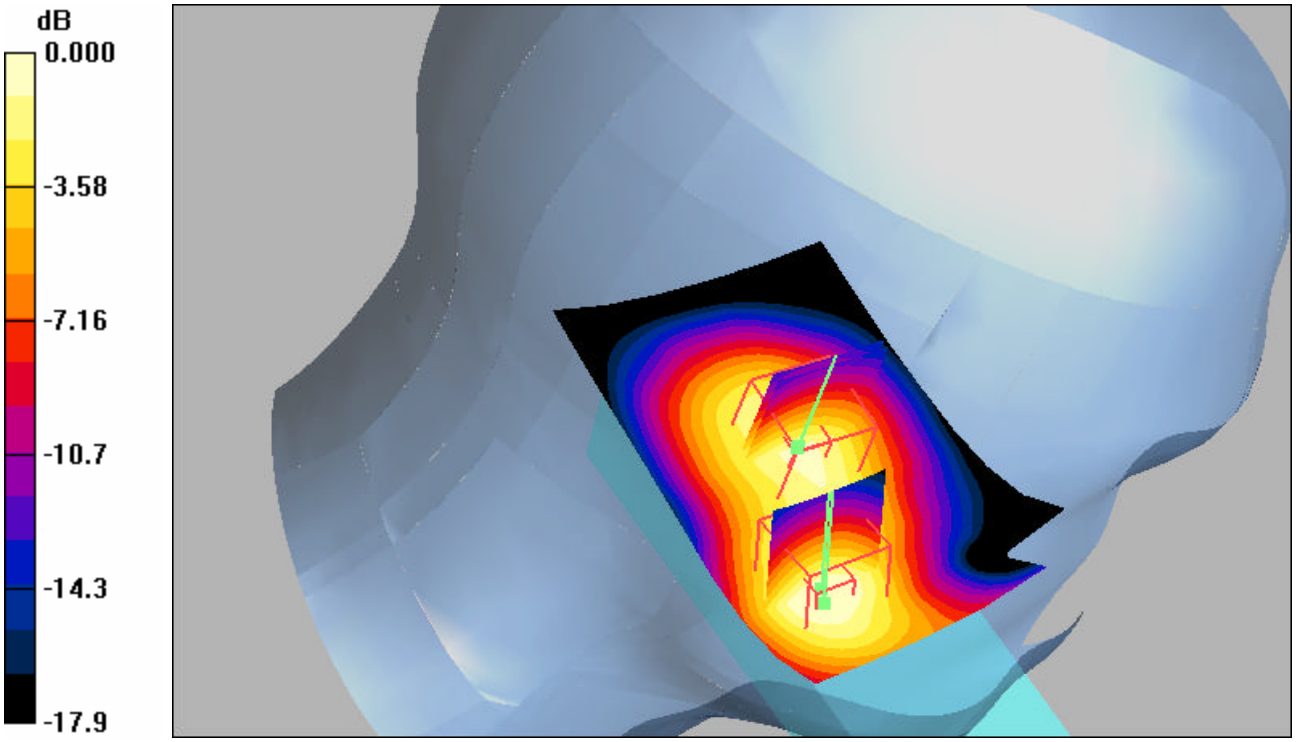
SEM/CV/PF/P Gerard Hayes		A	X:\SAR Chamber\FCC reports\W300I\Final Reports\FCCW300I.doc

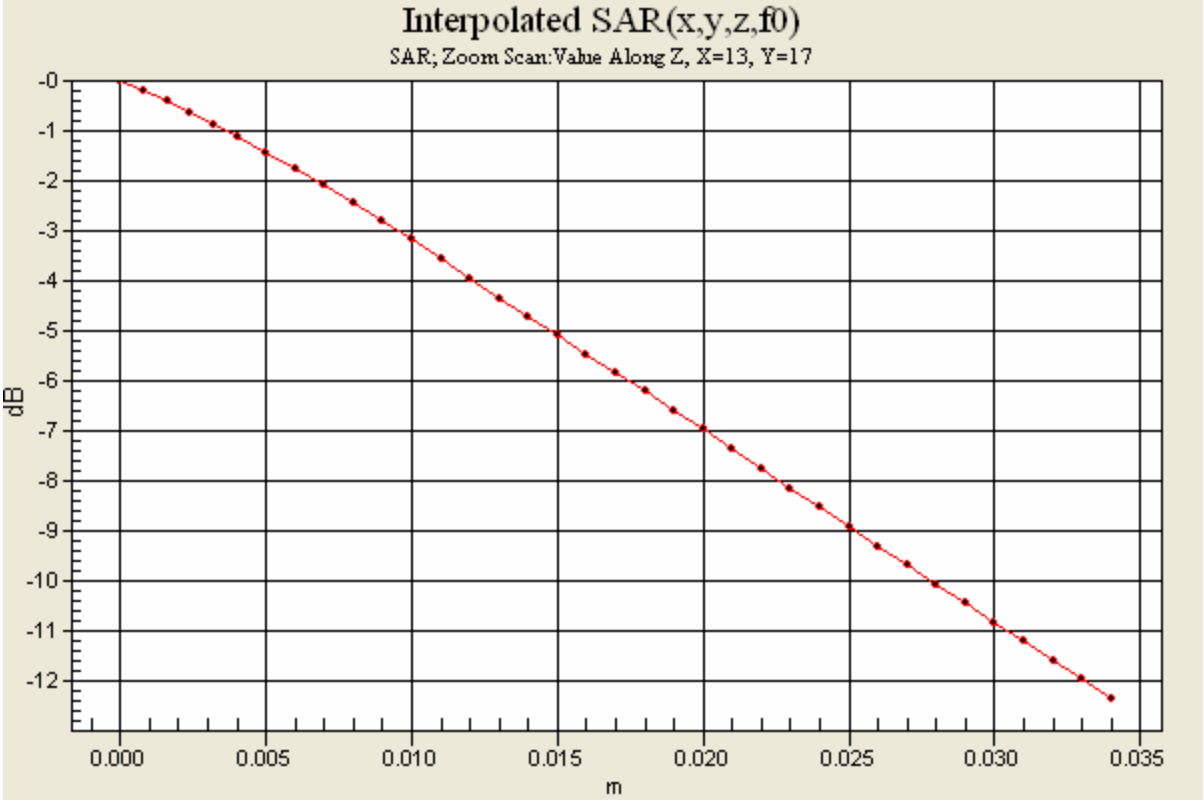
1900 GSM Band: Distribution and Extrapolation of Maximum SAR
Model: W300i SN: BDX0000ES1 with Standard Battery: BST-33
Left Side, Cheek/Touch Position.

Date/Time: 3/23/2006 8:09:10 AM
File Name: 23Mar06_W300i_GSM1900_0ES1_LC01.da4
DUT: W300i
Program Notes: Battery - BST-33 Humidity - 35.7% Ambient Temp - 22.8 C Simulant Temp - 22.6 C
Communication System: DCS 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3
Medium: Head 1800/1900 MHzMedium parameters used: f = 1910 MHz; s = 1.48 mho/m; e_r = 38.2; ? = 1000 kg/m^3
Phantom section: Left Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1539; ConvF(4.55, 4.55, 4.55); Calibrated: 11/22/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/10/2005
- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Unnamed procedure 3/Area Scan (51x81x1):
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.59 mW/g
Unnamed procedure 3/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 15.0 V/m; Power Drift = 0.095 dB
Peak SAR (extrapolated) = 2.28 W/kg
SAR(1 g) = 1.42 mW/g; SAR(10 g) = 0.769 mW/g
Maximum value of SAR (measured) = 1.62 mW/g
Unnamed procedure 3/Zoom Scan (7x7x7)/Cube 1:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 15.0 V/m; Power Drift = 0.095 dB
Peak SAR (extrapolated) = 1.41 W/kg
SAR(1 g) = 1.01 mW/g; SAR(10 g) = 0.625 mW/g
Maximum value of SAR (measured) = 1.10 mW/g
Unnamed procedure 3/Zoom Scan (31x31x36)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 15.0 V/m; Power Drift = 0.095 dB
Maximum value of SAR (interpolated) = 2.28 mW/g
Unnamed procedure 3/Zoom Scan (31x31x36)/Cube 1:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 15.0 V/m; Power Drift = 0.095 dB
Maximum value of SAR (interpolated) = 1.41 mW/g



0 dB = 1.41mW/g


Interpolated SAR(x,y,z,f0)
SAR; Zoom Scan:Value Along Z, X=13, Y=17
dB
-0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
-11
-12
0.000
0.005
0.010
0.015
0.020
0.025
0.030
0.035
m

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SEM/CV/PF/P Gerard Hayes and Rodney Dixon		REP 2006 003 W300i 02	
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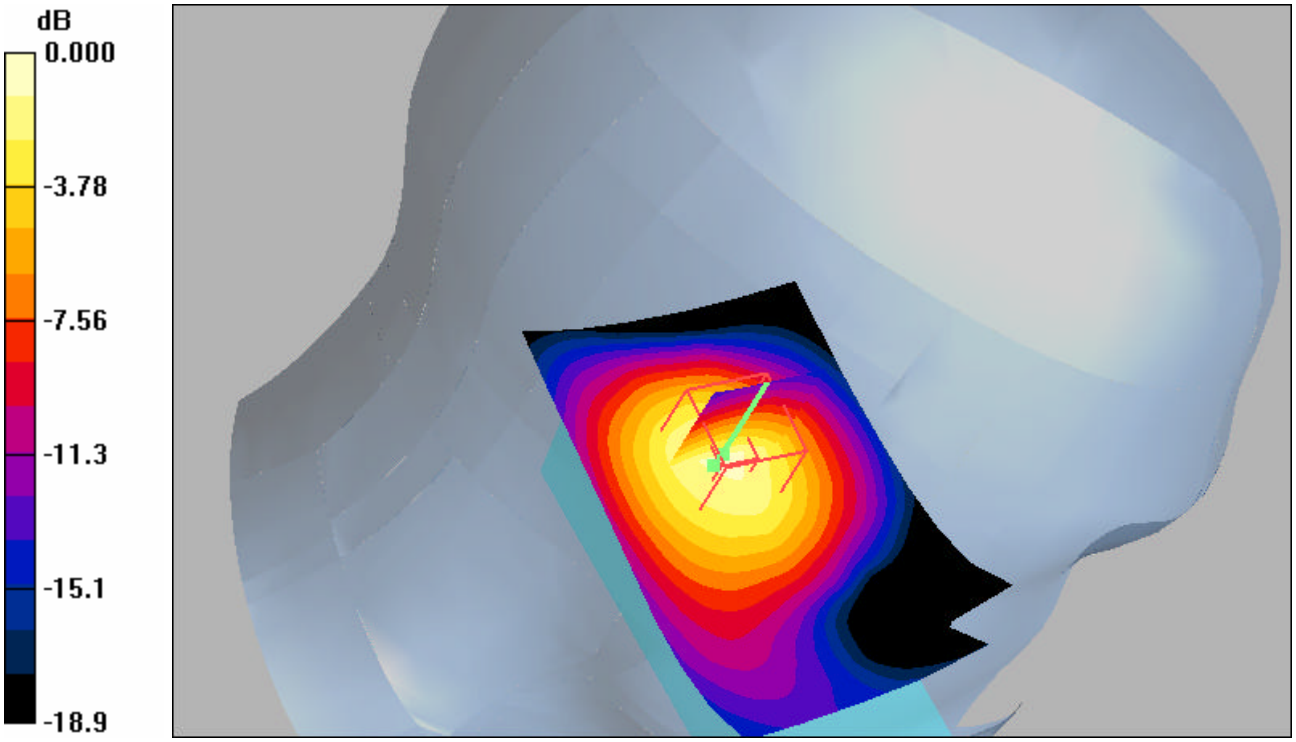
SEM/CV/PF/P Gerard Hayes		A	X:\SAR Chamber\FCC reports\W300I\Final Reports\FCCW300I.doc

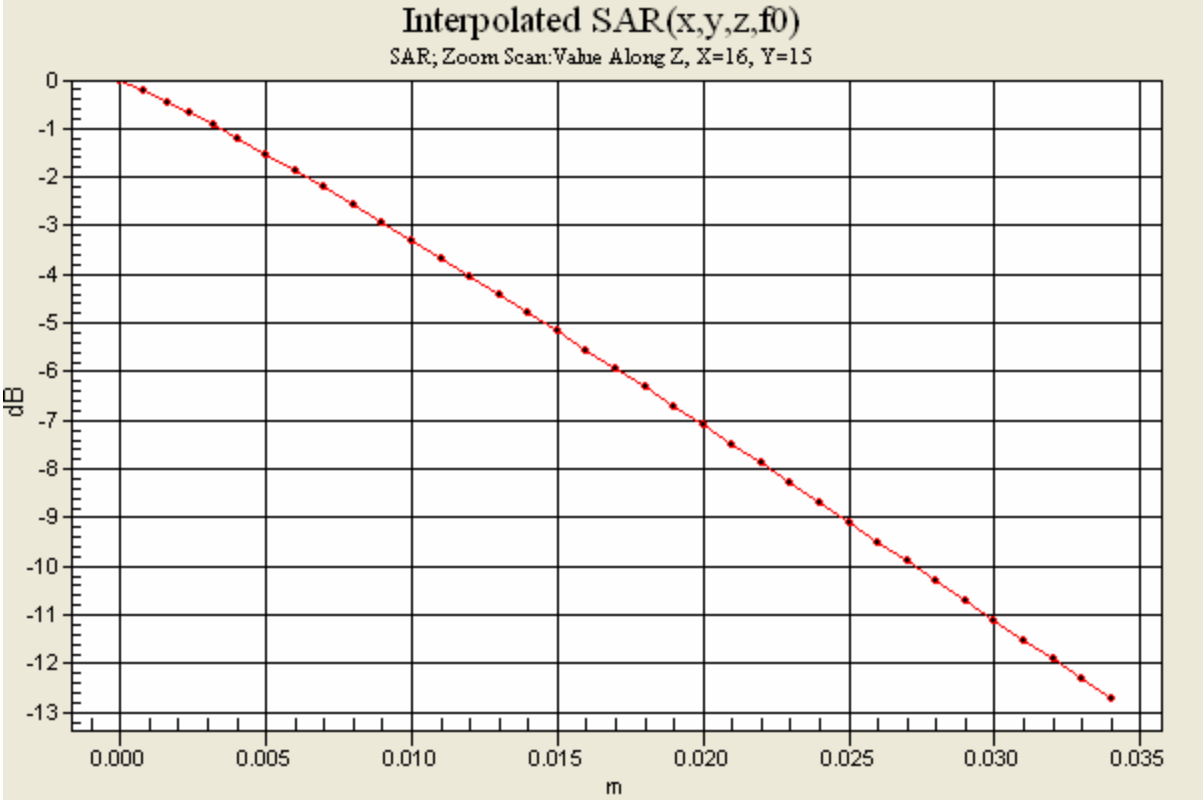
1900 GSM Band: Distribution and Extrapolation of Maximum SAR
Model: W300i SN: BDX0000ES1 with Standard Battery: BST-33
Left Side, Tilt Position.

Date/Time: 3/23/2006 9:55:52 AM
File Name: 23Mar06_W300i_GSM1900_0ES1_LT01.da4
DUT: W300i
Program Notes: Battery - BST-33 Humidity - 36.4% Ambient Temp - 22.6 C Simulant Temp - 22.5
Communication System: DCS 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium: Head 1800/1900 MHzMedium parameters used (interpolated): f = 1850.2 MHz; s = 1.43 mho/m; e_r = 38.5; ? = 1000 kg/m^3
Phantom section: Left Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1539; ConvF(4.55, 4.55, 4.55); Calibrated: 11/22/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/10/2005
- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Unnamed procedure/Area Scan (51x81x1):
Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 1.03 mW/g
Unnamed procedure/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 19.0 V/m; Power Drift = 0.026 dB
Peak SAR (extrapolated) = 1.23 W/kg
SAR(1 g) = 0.848 mW/g; SAR(10 g) = 0.519 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.931 mW/g
Unnamed procedure/Zoom Scan (31x31x36)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 19.0 V/m; Power Drift = 0.026 dB
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 1.23 mW/g



0 dB = 1.23mW/g

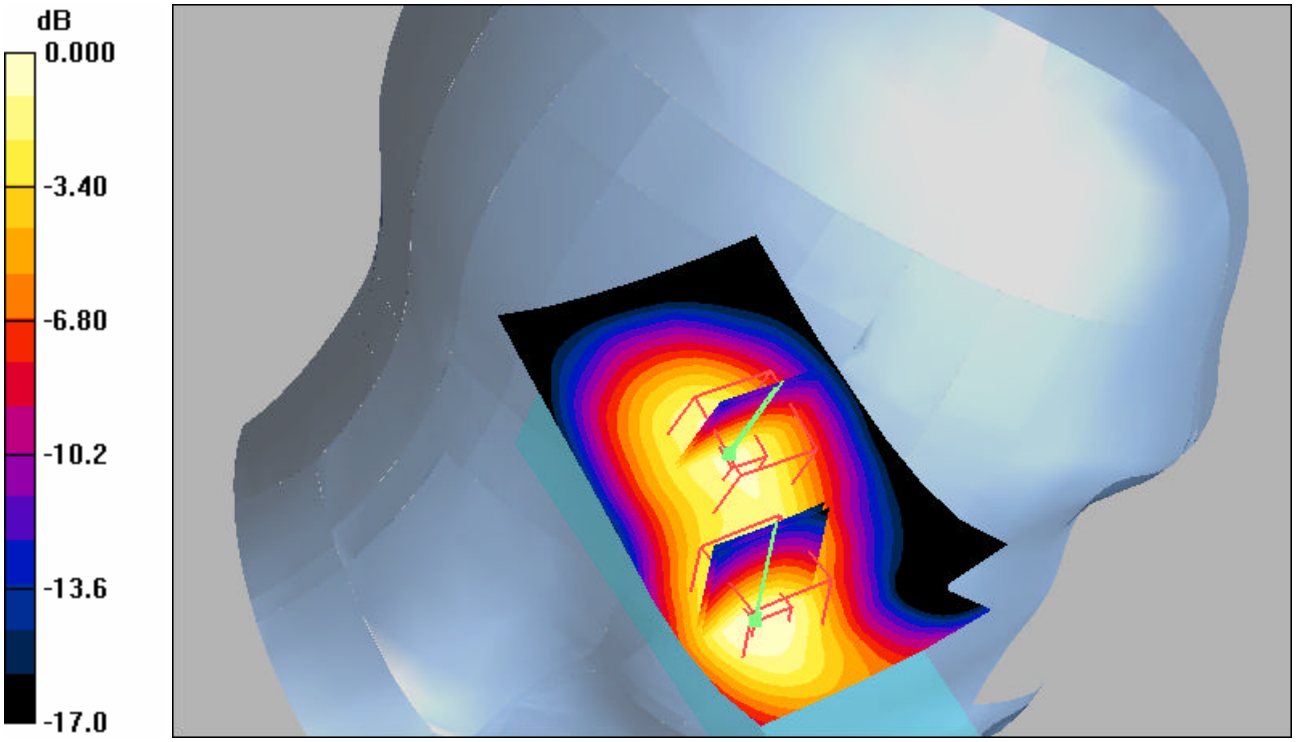

Interpolated SAR(x,y,z,f0)
SAR; Zoom Scan:Value Along Z, X=16, Y=15
dB
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
-11
-12
-13
0.000
0.005
0.010
0.015
0.020
0.025
0.030
0.035
m

Prepared (also subject responsible if other)		No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon		REP 2006 003 W300i 02	
Approved	Checked		
SEM/CV/PF/P Gerard Hayes		A	X:\SAR Chamber\FCC reports\W300I\Final Reports\FCCW300I.doc

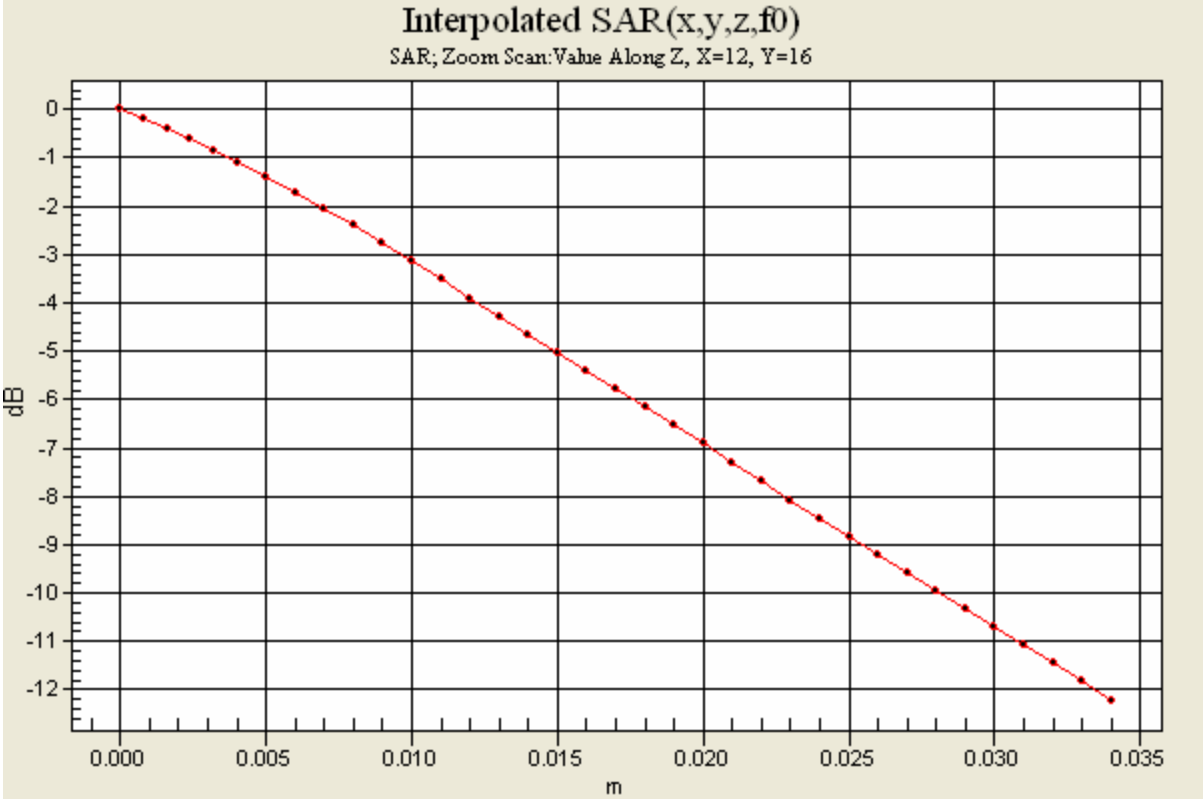
1900 GSM Band: Distribution and Extrapolation of Maximum SAR
Model: W300i SN: BDX0000ES1 with Standard Battery: BST-33
Left Side, Cheek/Touch Position with Blue Tooth.

Date/Time: 3/23/2006 2:57:55 PM
File Name: 23Mar06_W300i_GSM1900_0ES1_BT_LC01.da4
DUT: W300i
Program Notes: Battery - BST33 Humidity - 36.6% Ambient Temp - 23.1 C Simulant Tem - 22.6 C
Communication System: DCS 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3
Medium: Head 1800/1900 MHzMedium parameters used: f = 1910 MHz; s = 1.48 mho/m; e_r = 38.2; ? = 1000 kg/m^3
Phantom section: Left Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1539; ConvF(4.55, 4.55, 4.55); Calibrated: 11/22/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/10/2005
- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Unnamed procedure 3/Area Scan (51x81x1):
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.54 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 = -0.001 dB
Peak SAR (extrapolated) = 2.20 W/kg
SAR(1 g) = 1.38 mW/g; SAR(10 g) = 0.746 mW/g
Maximum value of SAR (measured) = 1.56 mW/g
Unnamed procedure 3/Zoom Scan (7x7x7)/Cube 1:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 15.4 V/m; Power Drift = -0.001 dB
Peak SAR (extrapolated) = 1.33 W/kg
SAR(1 g) = 0.971 mW/g; SAR(10 g) = 0.605 mW/g
Maximum value of SAR (measured) = 1.06 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 = -0.001 dB
Maximum value of SAR (interpolated) = 2.20 mW/g
Unnamed procedure 3/Zoom Scan (31x31x36)/Cube 1:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 15.4 V/m; Power Drift = -0.001 dB
Maximum value of SAR (interpolated) = 1.33 mW/g



0 dB = 1.33mW/g


Interpolated SAR(x,y,z,f0)
SAR; Zoom Scan:Value Along Z, X=12, Y=16
dB
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
-11
-12
0.000
0.005
0.010
0.015
0.020
0.025
0.030
0.035
m

Appendix 3

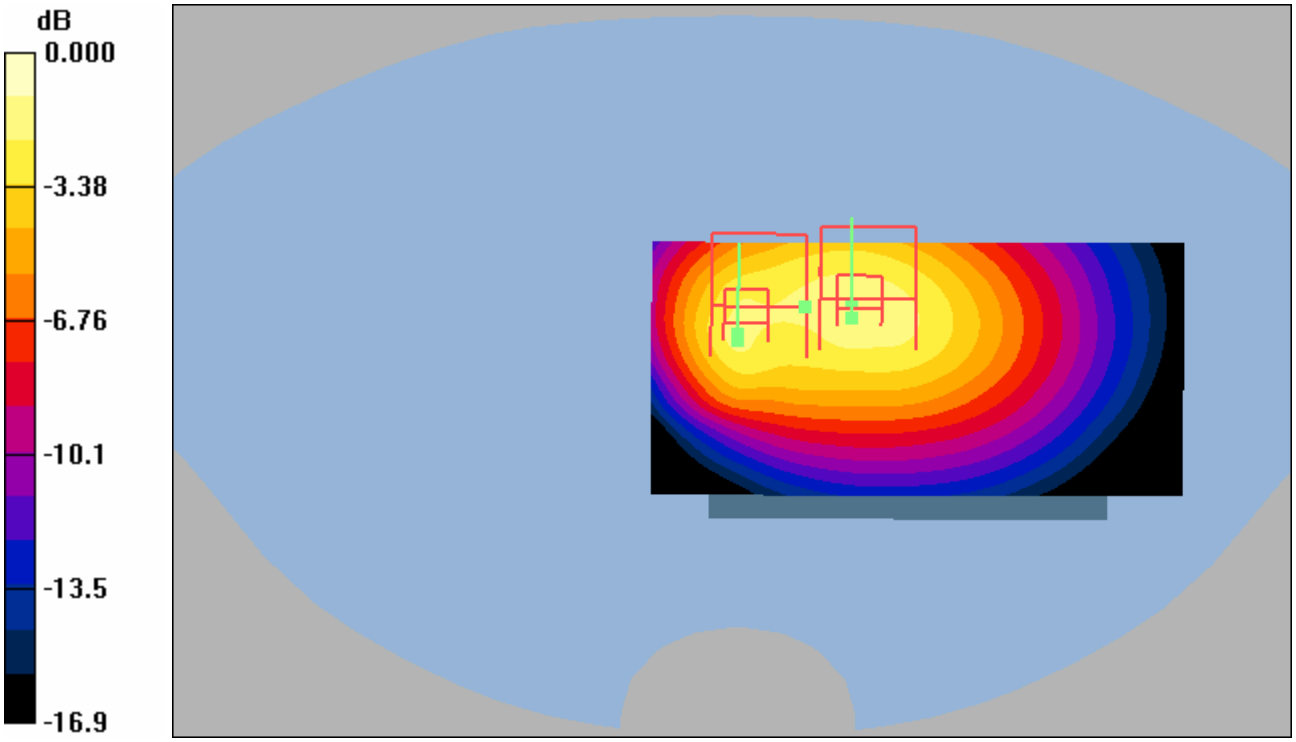
SAR distribution plots for Body Worn Configuration

Prepared (also subject responsible if other)		No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon		REP 2006 003 W300i 02	
Approved	Checked		
SEM/CV/PF/P Gerard Hayes		A	X:\SAR Chamber\FCC reports\W300I\Final Reports\FCCW300I.doc

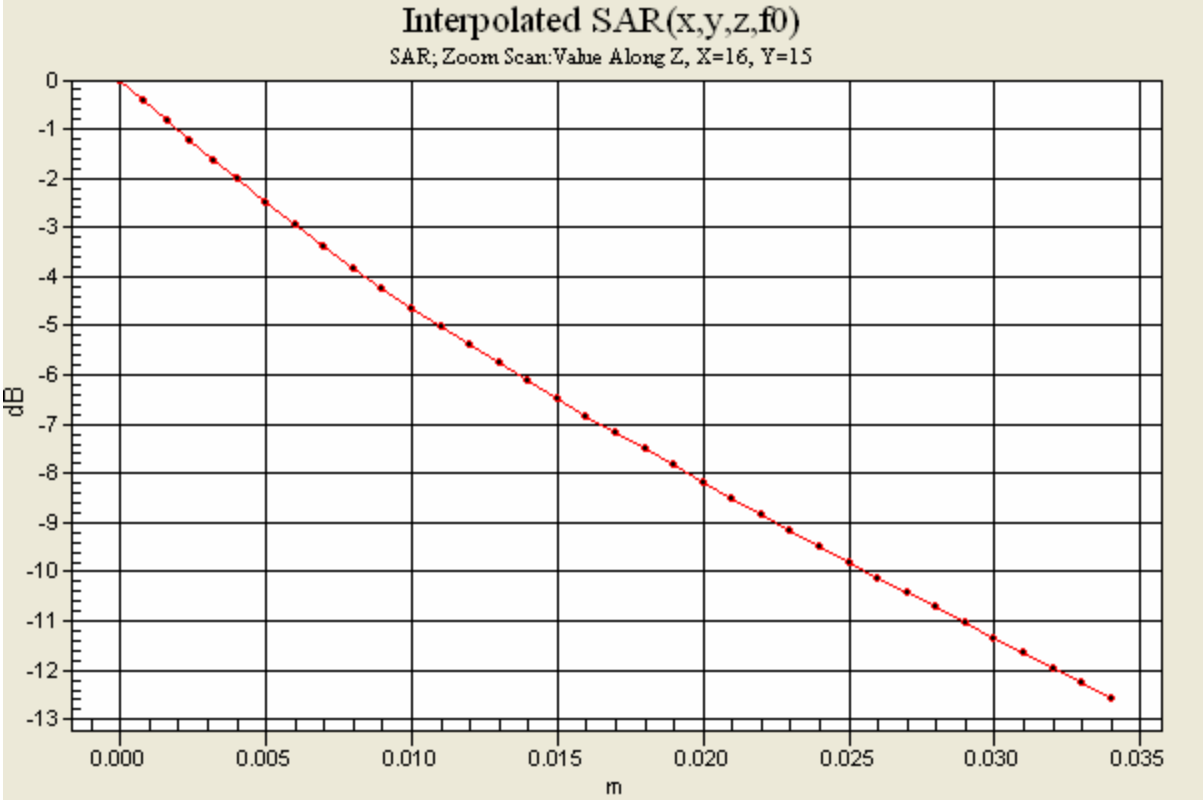
Distribution of maximum SAR in 800 GSM band. Measured with back of device facing the body using a 15mm Spacer. (Standard Battery, BST-33)

Date/Time: 3/25/2006 9:18:09 AM
File Name: 25Mar06_W300i_GSM850_0EUN_15mm_BB01.da4
DUT: W300i body
Program Notes: Battery - BST33 Humidity - 32.1% Ambient Temp - 24.3 C Simulant Temp - 24 C
Communication System: GSM 850 multi-slot Body; Frequency: 849 MHz;Duty Cycle: 1:4.15
Medium: Head 835/900 MHzMedium parameters used (interpolated): f = 849 MHz; s = 1 mho/m; e_r = 52.5; ? = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1539; ConvF(5.88, 5.88, 5.88); Calibrated: 11/22/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/10/2005
- Phantom: SAM with CRP (Low Band Body); Type: SAM; Serial: TP: 1031
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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) = 1.15 mW/g
Unnamed procedure 3/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 30.9 V/m; Power Drift = -0.091 dB
Peak SAR (extrapolated) = 1.54 W/kg
SAR(1 g) = 1.08 mW/g; SAR(10 g) = 0.724 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.16 mW/g
Unnamed procedure 3/Zoom Scan (7x7x7)/Cube 1:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 30.9 V/m; Power Drift = -0.091 dB
Peak SAR (extrapolated) = 1.61 W/kg
SAR(1 g) = 0.927 mW/g; SAR(10 g) = 0.591 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.01 mW/g
Unnamed procedure 3/Zoom Scan (31x31x36)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 30.9 V/m; Power Drift = -0.091 dB
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 1.54 mW/g
Unnamed procedure 3/Zoom Scan (31x31x36)/Cube 1:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 30.9 V/m; Power Drift = -0.091 dB
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 1.61 mW/g



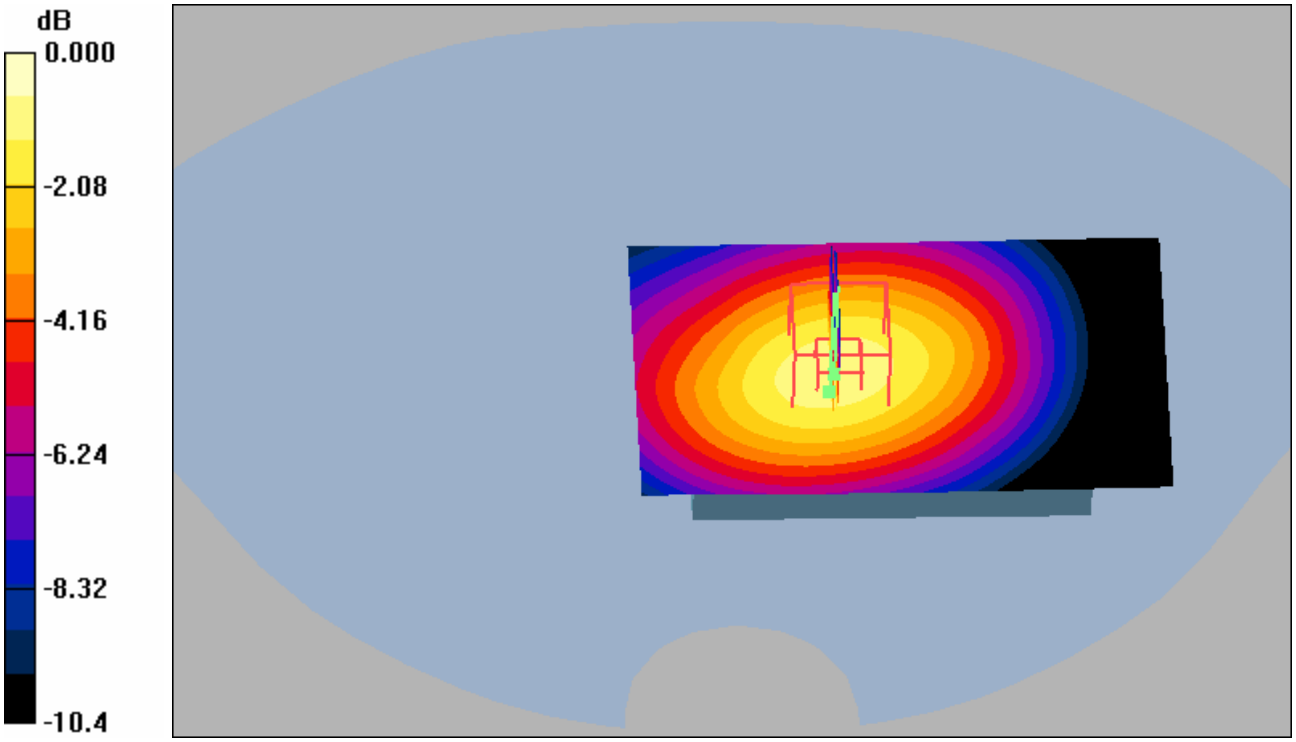
0 dB = 1.61mW/g


Interpolated SAR(x,y,z,f0)
SAR; Zoom Scan:Value Along Z, X=16, Y=15
dB
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
-11
-12
-13
0.000
0.005
0.010
0.015
0.020
0.025
0.030
0.035
m

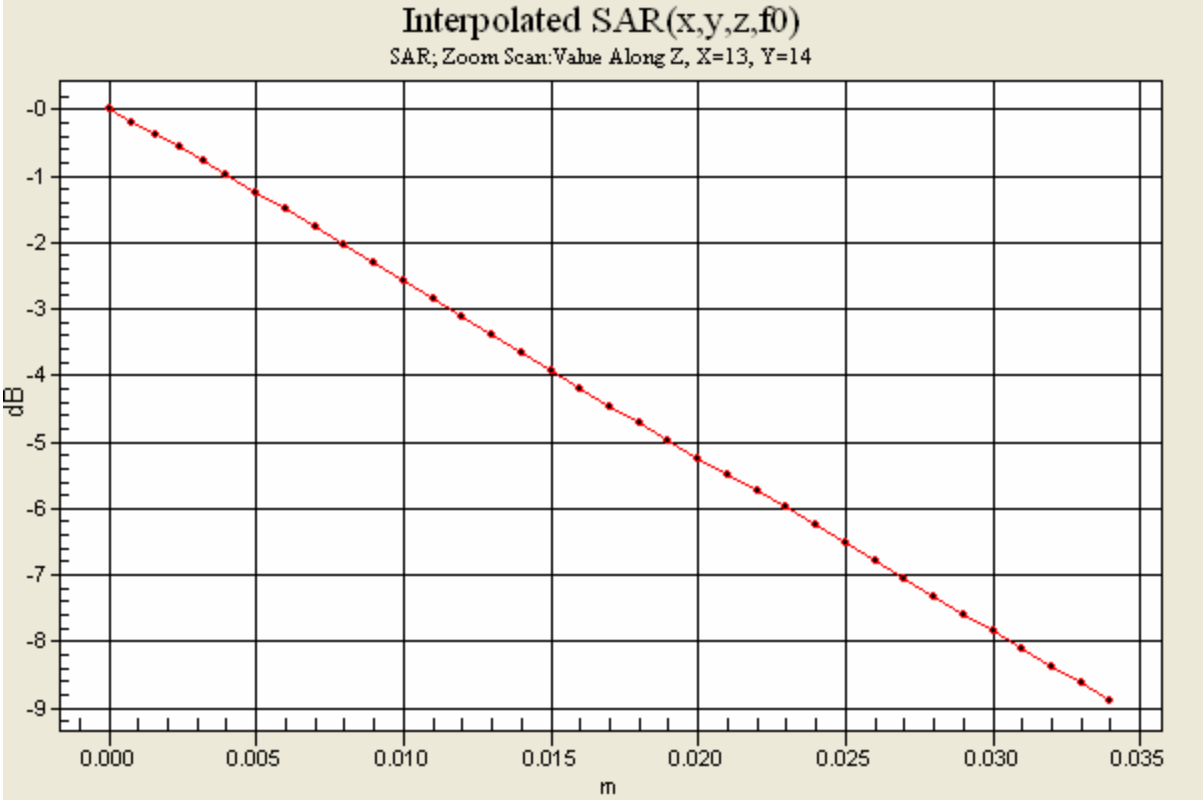
Distribution of maximum SAR in 800 GSM band. Measured with front of device facing the body using a 15mm Spacer. (Standard Battery, BST-33)

Date/Time: 3/25/2006 9:50:01 AM
File Name: 25Mar06_W300i_GSM850_0EUN_15mm_BF01.da4
DUT: W300i body
Program Notes: Battery - BST33 Humidity - 32.6% Ambient Temp - 24.5 C Simulant Temp - 24.1 C
Communication System: GSM 850 multi-slot Body; Frequency: 849 MHz;Duty Cycle: 1:4.15
Medium: Head 835/900 MHzMedium parameters used (interpolated): f = 849 MHz; s = 1 mho/m; e_r = 52.5; ? = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1539; ConvF(5.88, 5.88, 5.88); Calibrated: 11/22/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/10/2005
- Phantom: SAM with CRP (Low Band Body); Type: SAM; Serial: TP: 1031
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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) = 0.214 mW/g
Unnamed procedure 3/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.1 V/m; Power Drift = -0.061 dB
Peak SAR (extrapolated) = 0.262 W/kg
SAR(1 g) = 0.198 mW/g; SAR(10 g) = 0.140 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.210 mW/g
Unnamed procedure 3/Zoom Scan (31x31x36)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.1 V/m; Power Drift = -0.061 dB
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.262 mW/g



0 dB = 0.262mW/g


Interpolated SAR(x,y,z,f0)
SAR; Zoom Scan:Value Along Z, X=13, Y=14
dB
-0
-1
-2
-3
-4
-5
-6
-7
-8
-9
0.000
0.005
0.010
0.015
0.020
0.025
0.030
0.035
m

Prepared (also subject responsible if other)		No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon		REP 2006 003 W300i 02	
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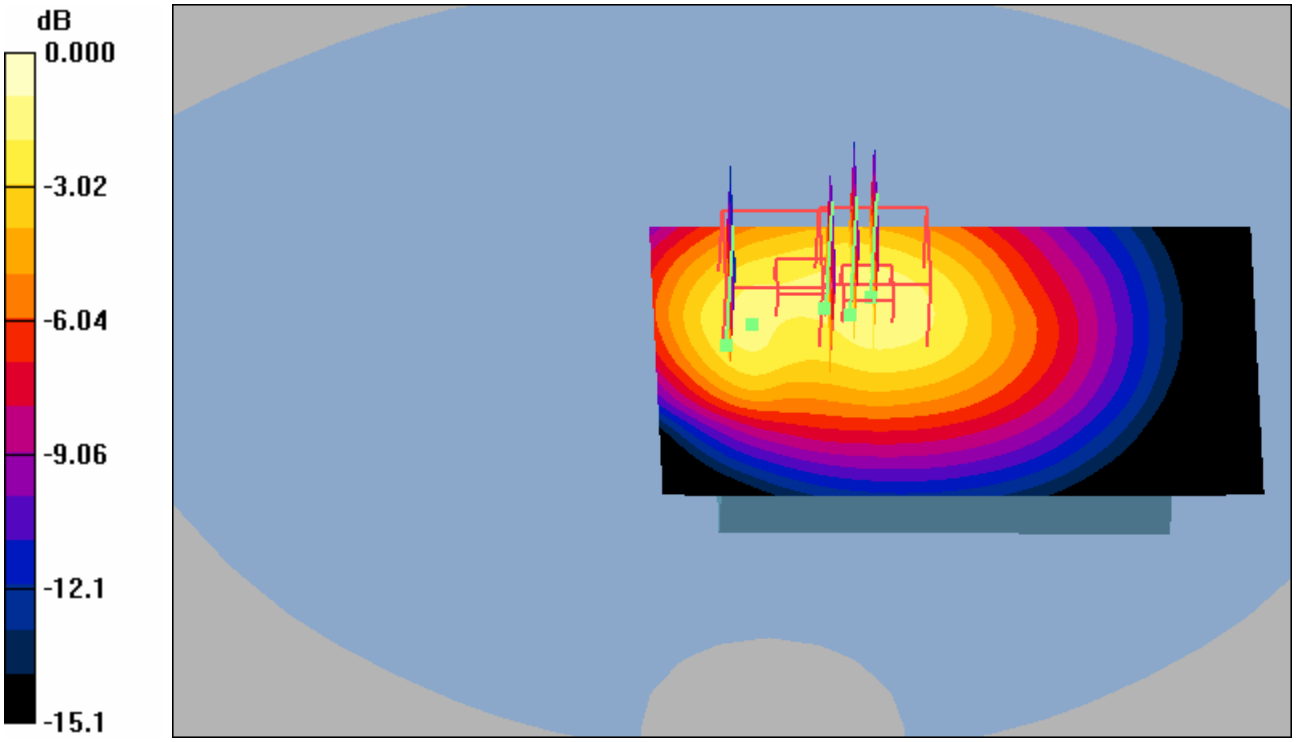
SEM/CV/PF/P Gerard Hayes		A	X:\SAR Chamber\FCC reports\W300I\Final Reports\FCCW300I.doc

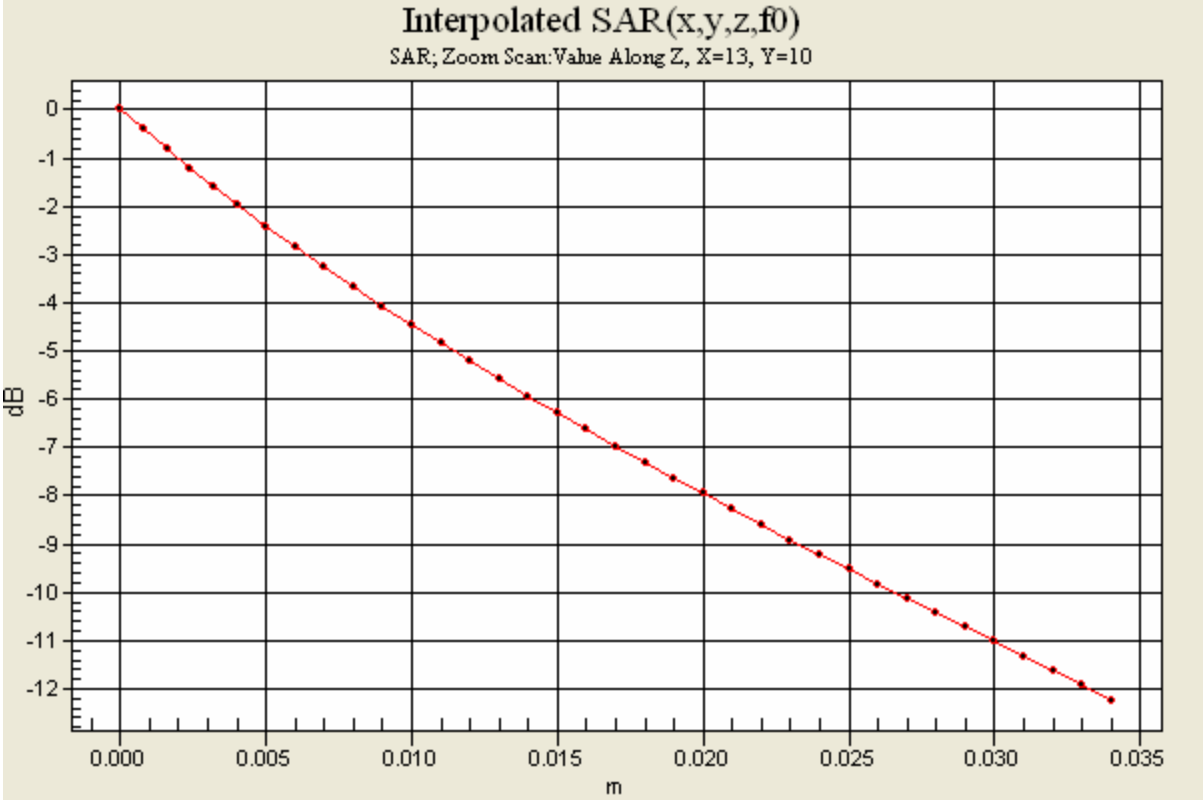
Distribution of maximum SAR in 800 GSM band. Measured with back of device facing the body using a 15mm Spacer with Blue Tooth. (Standard Battery BST-33)

Date/Time: 3/25/2006 1:27:14 PM
File Name: 25Mar06_W300i_GSM850_0EUN_15mm_BT_BB01.da4
DUT: W300i body
Program Notes: Battery - BST33 Humidity - 32.2% Ambient Temp - 24.5 C Simulant Temp - 24.2 C
Communication System: GSM 850 multi-slot Body; Frequency: 849 MHz;Duty Cycle: 1:4.15
Medium: Head 835/900 MHzMedium parameters used (interpolated): f = 849 MHz; s = 1 mho/m; e_r = 52.5; ? = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1539; ConvF(5.88, 5.88, 5.88); Calibrated: 11/22/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/10/2005
- Phantom: SAM with CRP (Low Band Body); Type: SAM; Serial: TP: 1031
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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) = 1.10 mW/g
Unnamed procedure 3/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 29.2 V/m; Power Drift = 0.005 dB
Peak SAR (extrapolated) = 1.47 W/kg
SAR(1 g) = 1.03 mW/g; SAR(10 g) = 0.695 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.10 mW/g
Unnamed procedure 3/Zoom Scan (7x7x7)/Cube 1:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 29.2 V/m; Power Drift = 0.005 dB
Peak SAR (extrapolated) = 1.45 W/kg
SAR(1 g) = 0.900 mW/g; SAR(10 g) = 0.590 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.03 mW/g
Unnamed procedure 3/Zoom Scan (31x31x36)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 29.2 V/m; Power Drift = 0.005 dB
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 1.47 mW/g
Unnamed procedure 3/Zoom Scan (31x31x36)/Cube 1:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 29.2 V/m; Power Drift = 0.005 dB
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 1.45 mW/g



0 dB = 1.45mW/g


Interpolated SAR(x,y,z,f0)
SAR; Zoom Scan:Value Along Z, X=13, Y=10
dB
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
-11
-12
0.000
0.005
0.010
0.015
0.020
0.025
0.030
0.035
m

Prepared (also subject responsible if other)		No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon		REP 2006 003 W300i 02	
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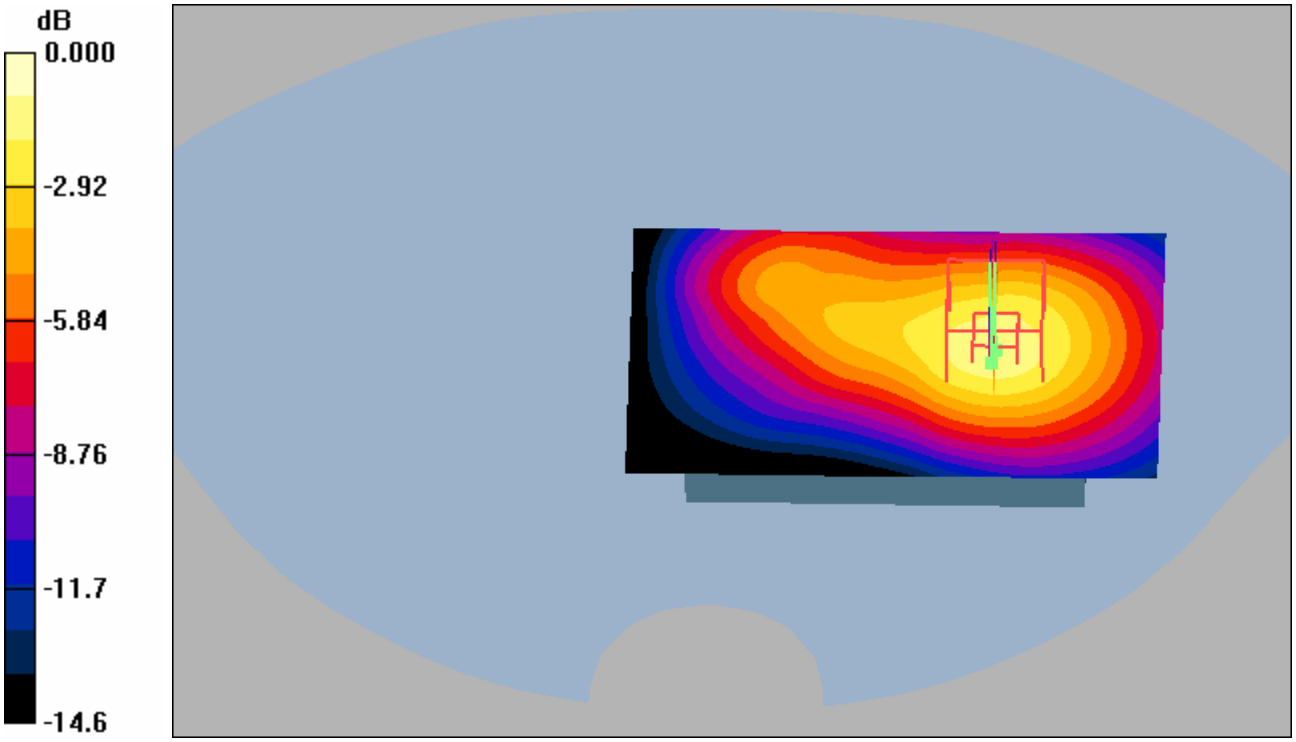
SEM/CV/PF/P Gerard Hayes		A	X:\SAR Chamber\FCC reports\W300I\Final Reports\FCCW300I.doc

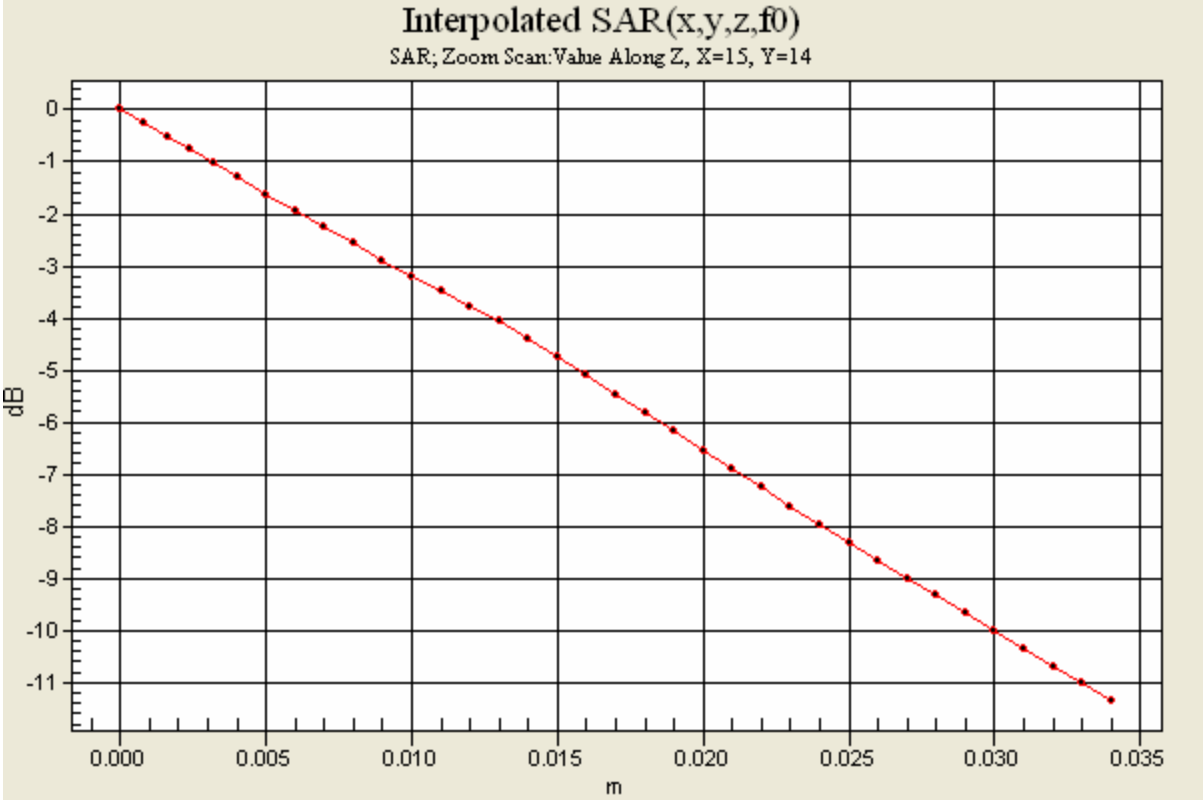
Distribution of maximum SAR in 1900 GSM band. Measured with back of device facing the body using a 15mm Spacer. (Standard Battery, BST-33)

Date/Time: 3/24/2006 11:56:34 AM
File Name: 24Mar06_W300i_GSM1900_0ES1_BB01.da4
DUT: W300i body
Program Notes: Battery - BST33 Humidity - 37.6 % Ambient Temp - 24.2 C Simulant Temp - 23.8 C
Communication System: DCS 1900 Body; Frequency: 1909.8 MHz;Duty Cycle: 1:4.15
Medium: Head 1800/1900 MHzMedium parameters used: f = 1910 MHz; s = 1.53 mho/m; e_r = 51.6; ? = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1539; ConvF(4.12, 4.12, 4.12); Calibrated: 11/22/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/10/2005
- Phantom: SAM with CRP (High Band Body); Type: SAM; Serial: TP: 1020
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Unnamed procedure 3/Area Scan (51x81x1):
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.30 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 = -0.099 dB
Peak SAR (extrapolated) = 1.74 W/kg
SAR(1 g) = 1.2 mW/g; SAR(10 g) = 0.771 mW/g
Maximum value of SAR (measured) = 1.30 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 = -0.099 dB
Maximum value of SAR (interpolated) = 1.74 mW/g



0 dB = 1.74mW/g


Interpolated SAR(x,y,z,f0)
SAR; Zoom Scan:Value Along Z, X=15, Y=14
dB
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
-11
0.000
0.005
0.010
0.015
0.020
0.025
0.030
0.035
m

Prepared (also subject responsible if other)		No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon		REP 2006 003 W300i 02	
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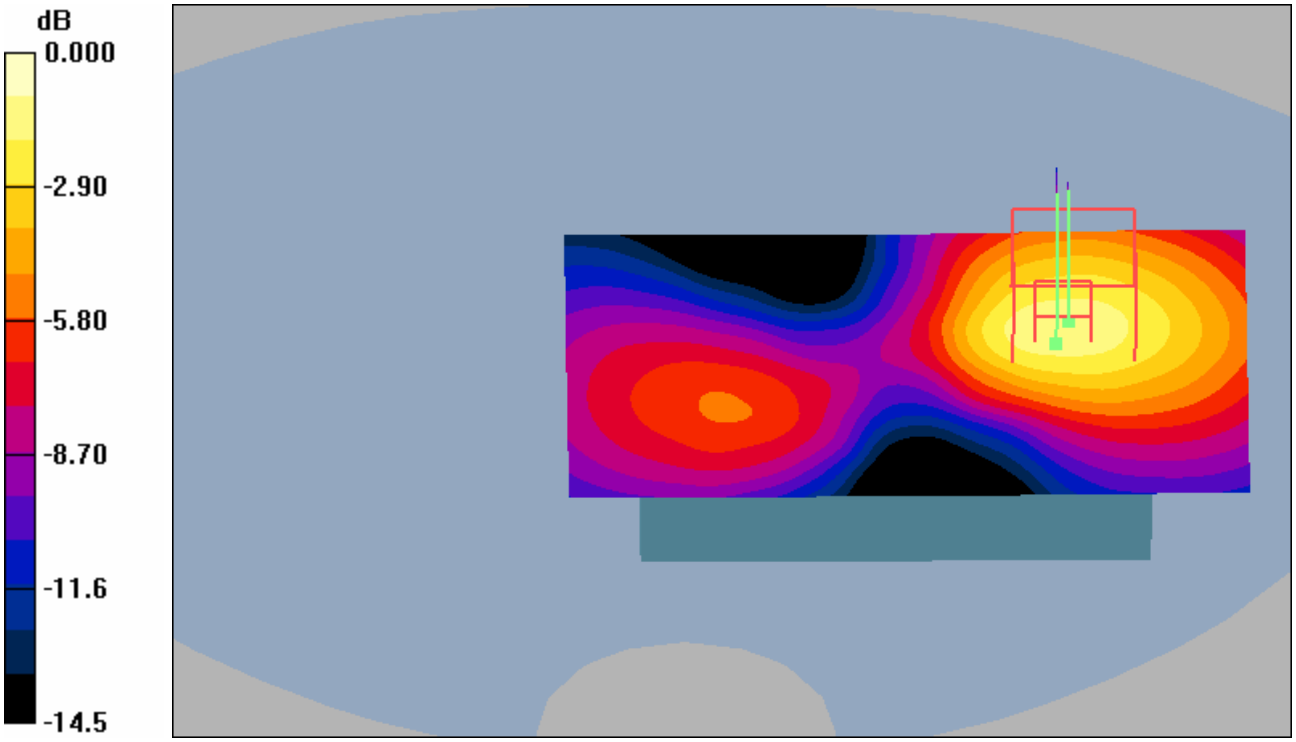
SEM/CV/PF/P Gerard Hayes		A	X:\SAR Chamber\FCC reports\W300I\Final Reports\FCCW300I.doc

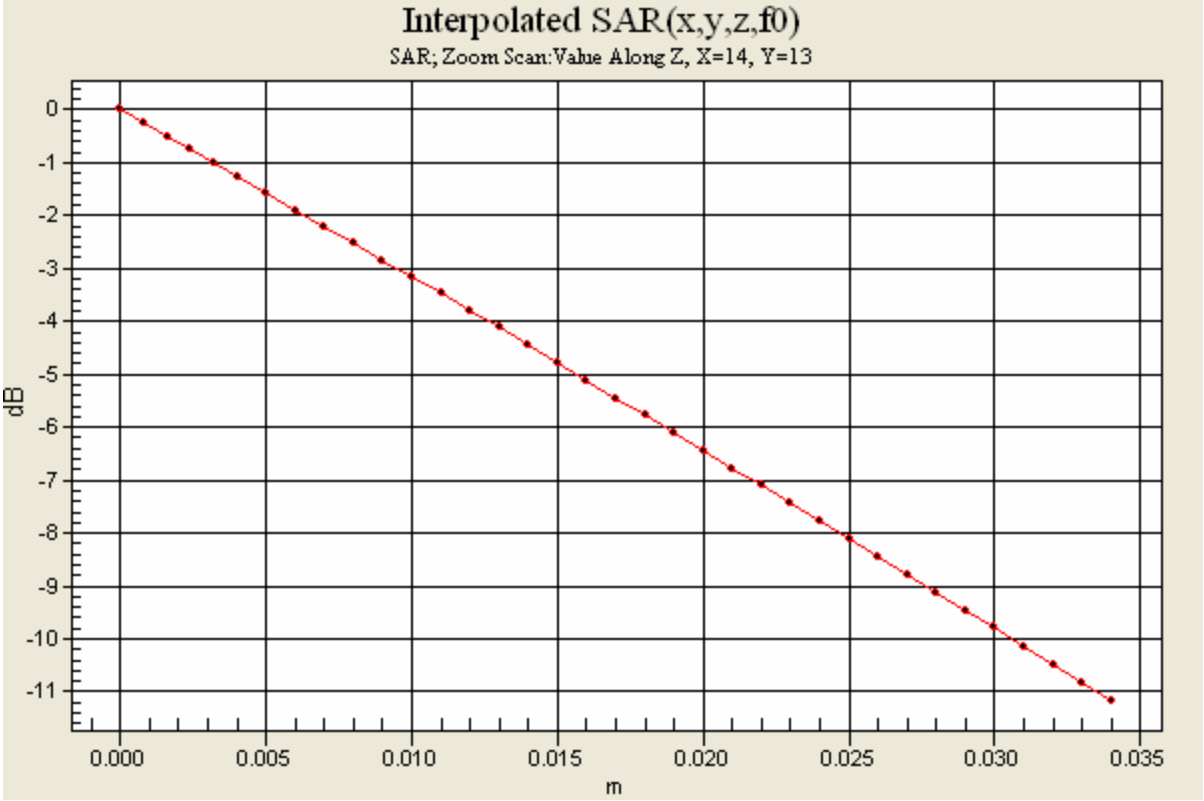
Distribution of maximum SAR in 1900 GSM band. Measured with front of device facing the body using a 15mm Spacer. (Standard Battery, BST-33)

Date/Time: 3/24/2006 1:26:01 PM
File Name: 24Mar06_W300i_GSM1900_0ES1_BF01.da4
DUT: W300i body
Program Notes: Battery - BST33 Humidity - 37.2 % Ambient Temp - 24 C Simulant Temp - 23.7 C
Communication System: DCS 1900 Body; Frequency: 1850.2 MHz;Duty Cycle: 1:4.15
Medium: Head 1800/1900 MHzMedium parameters used (interpolated): f = 1850.2 MHz; s = 1.46 mho/m; e_r = 51.8; ? = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1539; ConvF(4.12, 4.12, 4.12); Calibrated: 11/22/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/10/2005
- Phantom: SAM with CRP (High Band Body); Type: SAM; Serial: TP: 1020
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Unnamed procedure/Area Scan (51x81x1):
Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.346 mW/g
Unnamed procedure/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.65 V/m; Power Drift = 0.058 dB
Peak SAR (extrapolated) = 0.468 W/kg
SAR(1 g) = 0.322 mW/g; SAR(10 g) = 0.206 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.349 mW/g
Unnamed procedure/Zoom Scan (31x31x36)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.65 V/m; Power Drift = 0.058 dB
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.468 mW/g



0 dB = 0.468mW/g


Interpolated SAR(x,y,z,f0)
SAR; Zoom Scan:Value Along Z, X=14, Y=13
dB
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
-11
0.000
0.005
0.010
0.015
0.020
0.025
0.030
0.035
m

Prepared (also subject responsible if other)		No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon		REP 2006 003 W300i 02	
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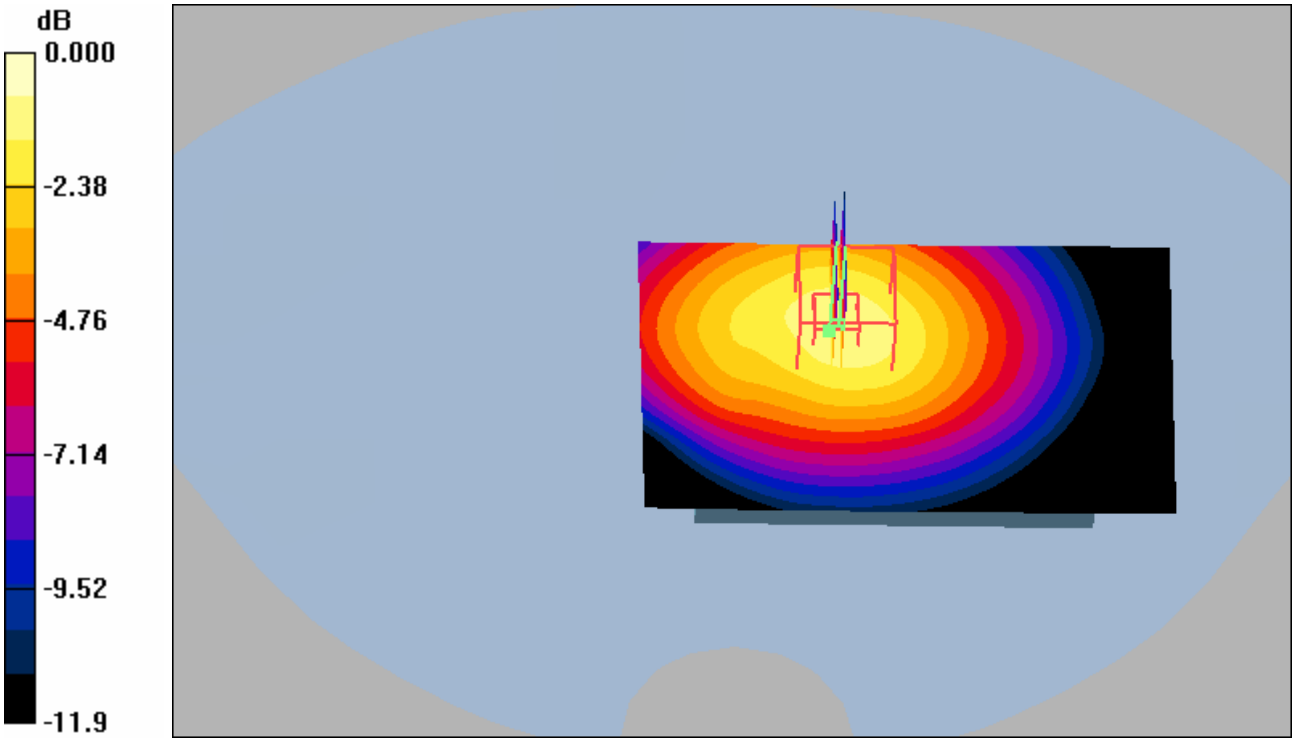
SEM/CV/PF/P Gerard Hayes		A	X:\SAR Chamber\FCC reports\W300I\Final Reports\FCCW300I.doc

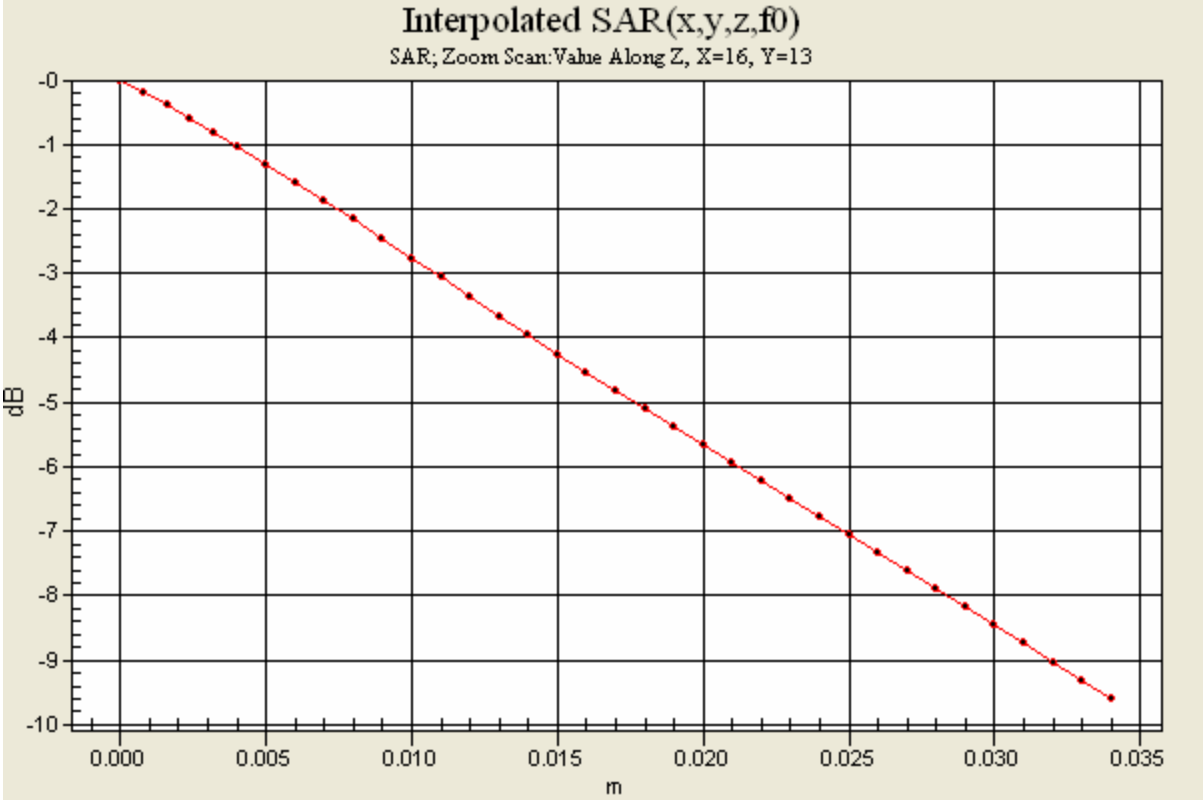
Distribution of maximum SAR in 800 GSM band. Measured with back of device facing the body using the ICE-26 Carry Case. (Standard Battery, BST-33)

Date/Time: 3/25/2006 11:43:57 AM
File Name: 25Mar06_W300i_GSM850_0EUN_ICE26_BB01.da4
DUT: W300i body
Program Notes: Battery - BST33 Humidity - 32.0% Ambient Temp - 24.6 C Simulant Temp - 24.2 C
Communication System: GSM 850 multi-slot Body; Frequency: 849 MHz;Duty Cycle: 1:4.15
Medium: Head 835/900 MHzMedium parameters used (interpolated): f = 849 MHz; s = 1 mho/m; e_r = 52.5; ? = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1539; ConvF(5.88, 5.88, 5.88); Calibrated: 11/22/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/10/2005
- Phantom: SAM with CRP (Low Band Body); Type: SAM; Serial: TP: 1031
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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) = 0.784 mW/g
Unnamed procedure 3/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 22.5 V/m; Power Drift = -0.115 dB
Peak SAR (extrapolated) = 0.989 W/kg
SAR(1 g) = 0.730 mW/g; SAR(10 g) = 0.507 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.785 mW/g
Unnamed procedure 3/Zoom Scan (31x31x36)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 22.5 V/m; Power Drift = -0.115 dB
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.989 mW/g



0 dB = 0.989mW/g


Interpolated SAR(x,y,z,f0)
SAR; Zoom Scan:Value Along Z, X=16, Y=13
dB
-0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
0.000
0.005
0.010
0.015
0.020
0.025
0.030
0.035
m

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SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 003 W300i 02	
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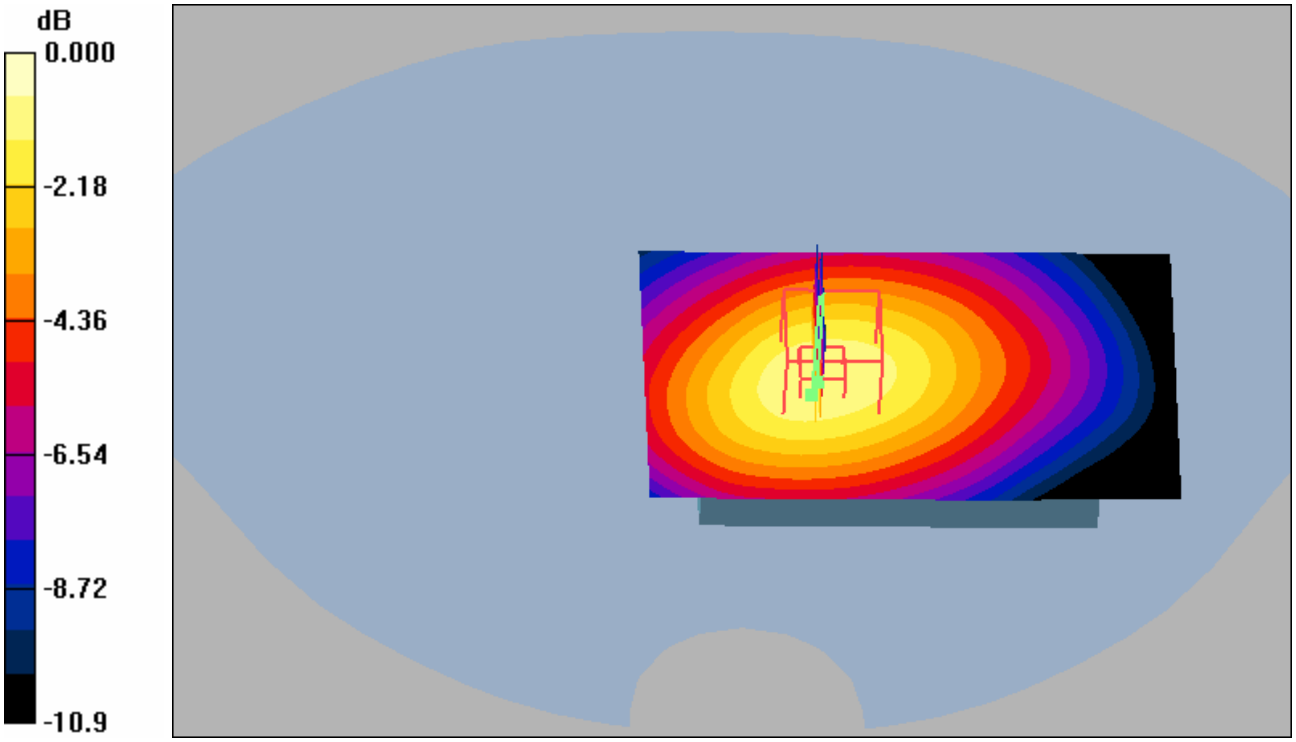
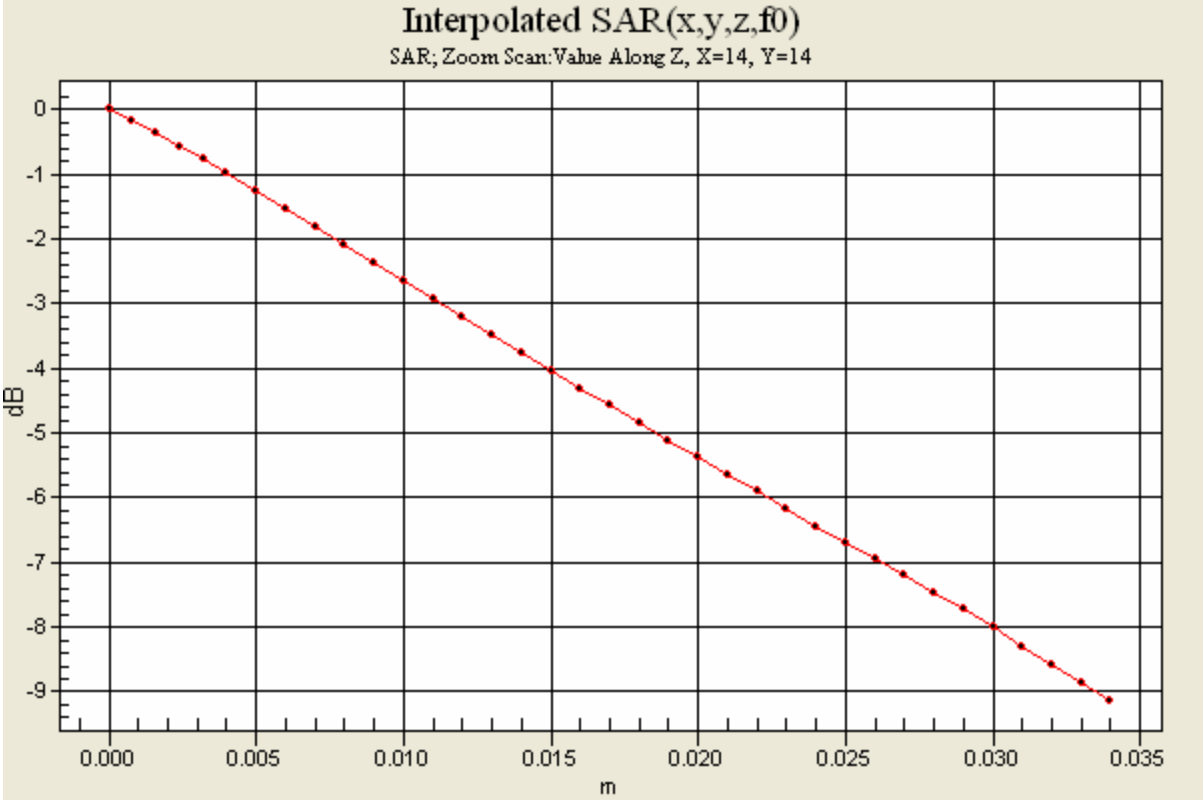
Distribution of maximum SAR in 800 GSM band. Measured with front of device facing the body using the ICE-26 Carry Case. (Standard Battery, BST-33)

Date/Time: 3/25/2006 12:03:46 PM
File Name: 25Mar06_W300i_GSM850_0EUN_ICE26_BF01.da4
DUT: W300i body
Program Notes: Battery - BST33 Humidity - 32.2% Ambient Temp - 24.5 C Simulant Temp - 24.2 C
Communication System: GSM 850 multi-slot Body; Frequency: 849 MHz;Duty Cycle: 1:4.15
Medium: Head 835/900 MHzMedium parameters used (interpolated): f = 849 MHz; s = 1 mho/m; e_r = 52.5; ? = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1539; ConvF(5.88, 5.88, 5.88); Calibrated: 11/22/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/10/2005
- Phantom: SAM with CRP (Low Band Body); Type: SAM; Serial: TP: 1031
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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) = 0.183 mW/g
Unnamed procedure 3/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.6 V/m; Power Drift = -0.104 dB
Peak SAR (extrapolated) = 0.220 W/kg
SAR(1 g) = 0.165 mW/g; SAR(10 g) = 0.117 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.176 mW/g
Unnamed procedure 3/Zoom Scan (31x31x36)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.6 V/m; Power Drift = -0.104 dB
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.220 mW/g



0 dB = 0.220mW/g

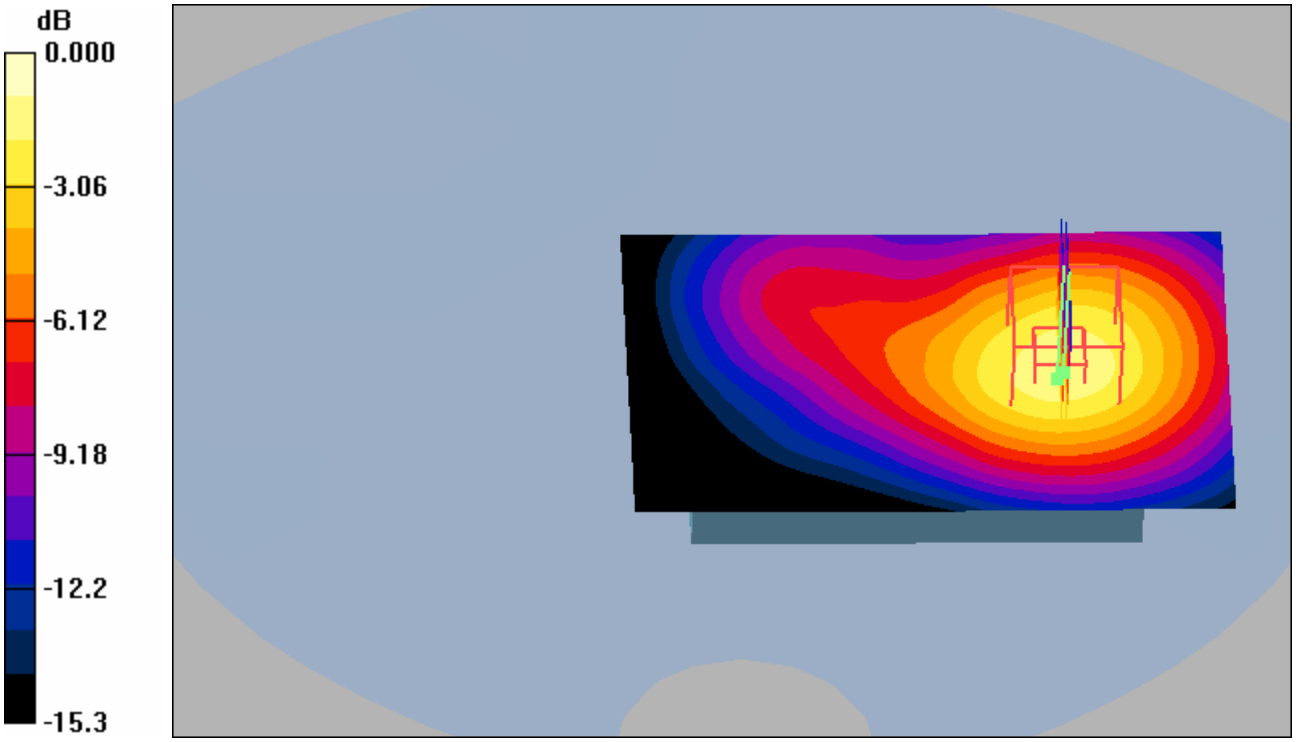

Interpolated SAR(x,y,z,f0)
SAR; Zoom Scan:Value Along Z, X=14, Y=14
dB
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
0.000
0.005
0.010
0.015
0.020
0.025
0.030
0.035
m

Prepared (also subject responsible if other)		No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon		REP 2006 003 W300i 02	
Approved	Checked		
SEM/CV/PF/P Gerard Hayes		A	X:\SAR Chamber\FCC reports\W300I\Final Reports\FCCW300I.doc

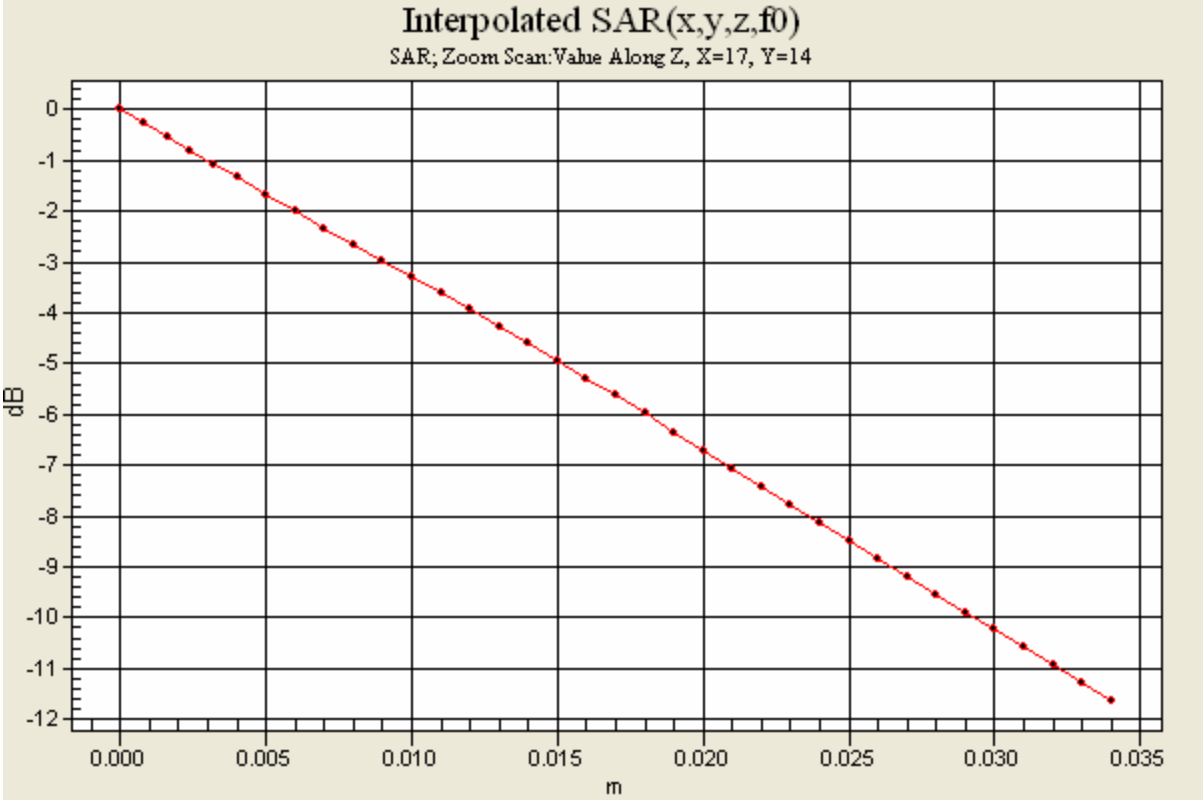
Distribution of maximum SAR in 1900 GSM band. Measured with back of device facing the body using the ICE-26 Carry Case. (Standard Battery, BST-33)

Date/Time: 3/24/2006 3:16:54 PM
File Name: 24Mar06_W300i_GSM1900_0ES1_ICE26_BB01.da4
DUT: W300i body
Program Notes: Battery - BST33 Humidity - 37.5 % Ambient Temp - 24.2 C Simulant Temp - 23.6 C
Communication System: DCS 1900 Body; Frequency: 1909.8 MHz;Duty Cycle: 1:4.15
Medium: Head 1800/1900 MHzMedium parameters used: f = 1910 MHz; s = 1.53 mho/m; e_r = 51.6; ? = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1539; ConvF(4.12, 4.12, 4.12); Calibrated: 11/22/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/10/2005
- Phantom: SAM with CRP (High Band Body); Type: SAM; Serial: TP: 1020
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Unnamed procedure 3/Area Scan (51x81x1):
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.50 mW/g
Unnamed procedure 3/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.99 V/m; Power Drift = 0.023 dB
Peak SAR (extrapolated) = 2.01 W/kg
SAR(1 g) = 1.36 mW/g; SAR(10 g) = 0.863 mW/g
Maximum value of SAR (measured) = 1.47 mW/g
Unnamed procedure 3/Zoom Scan (31x31x36)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.99 V/m; Power Drift = 0.023 dB
Maximum value of SAR (interpolated) = 2.01 mW/g



0 dB = 2.01mW/g

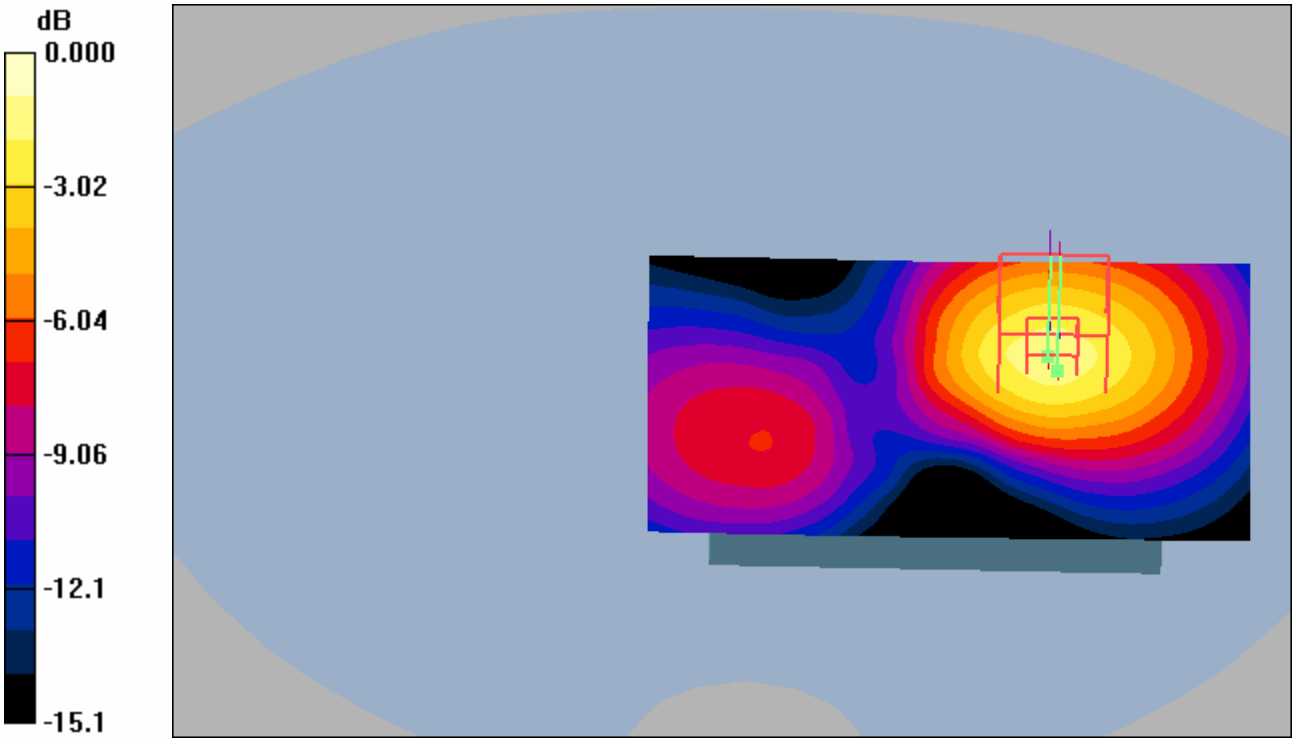

Interpolated SAR(x,y,z,f0)
SAR; Zoom Scan:Value Along Z, X=17, Y=14
dB
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
-11
-12
0.000
0.005
0.010
0.015
0.020
0.025
0.030
0.035
m

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 003 W300i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W300I\Final Reports\FCCW300I.doc

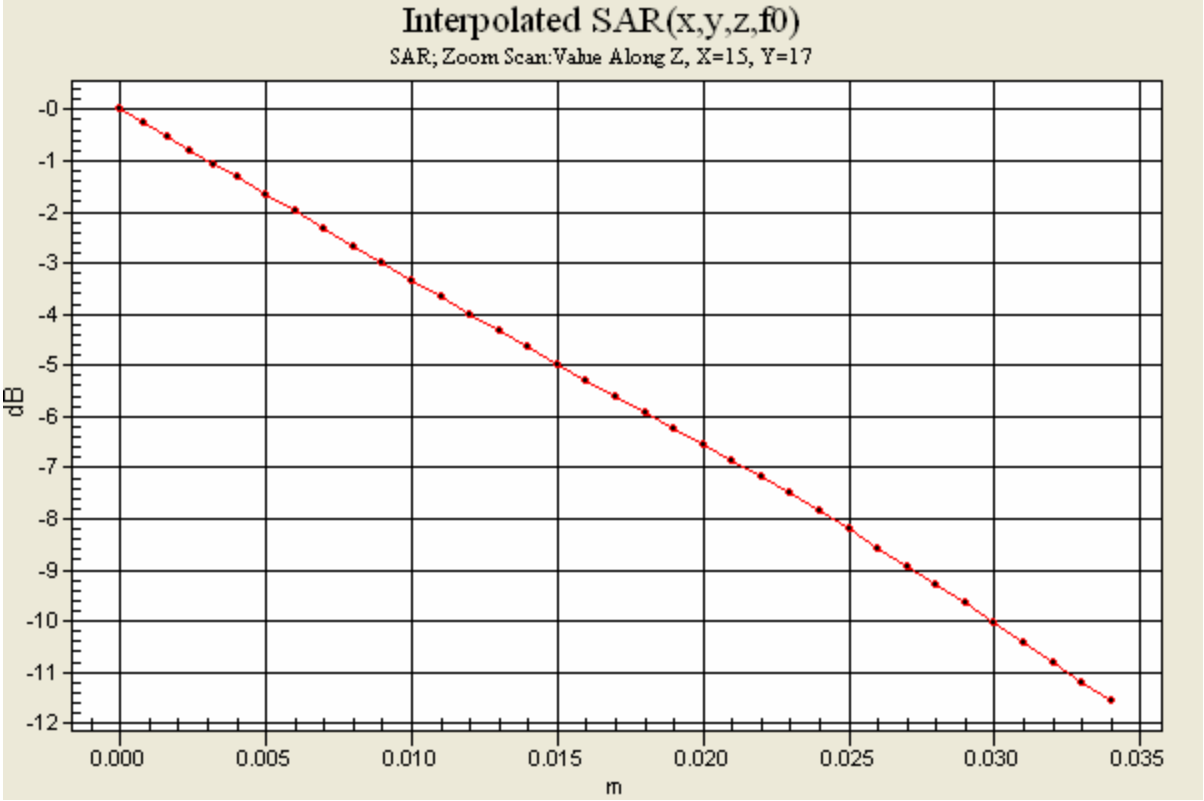
Distribution of maximum SAR in 1900 GSM band. Measured with front of device facing the body using the ICE-26 Carry Case. (Standard Battery, BST-33)

Date/Time: 3/24/2006 4:19:59 PM
File Name: 24Mar06_W300i_GSM1900_0ES1_ICE26_BF01.da4
DUT: W300i body
Program Notes: Battery - BST33 Humidity - 38.1 % Ambient Temp - 24.5 C Simulant Temp - 23.7 C
Communication System: DCS 1900 Body; Frequency: 1850.2 MHz;Duty Cycle: 1:4.15
Medium: Head 1800/1900 MHzMedium parameters used (interpolated): f = 1850.2 MHz; s = 1.46 mho/m; e_r = 51.8; ? = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1539; ConvF(4.12, 4.12, 4.12); Calibrated: 11/22/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/10/2005
- Phantom: SAM with CRP (High Band Body); Type: SAM; Serial: TP: 1020
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Unnamed procedure/Area Scan (51x81x1):
Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.445 mW/g
Unnamed procedure/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.67 V/m; Power Drift = -0.002 dB
Peak SAR (extrapolated) = 0.608 W/kg
SAR(1 g) = 0.411 mW/g; SAR(10 g) = 0.259 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.446 mW/g
Unnamed procedure/Zoom Scan (31x31x36)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.67 V/m; Power Drift = -0.002 dB
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.608 mW/g



0 dB = 0.608mW/g

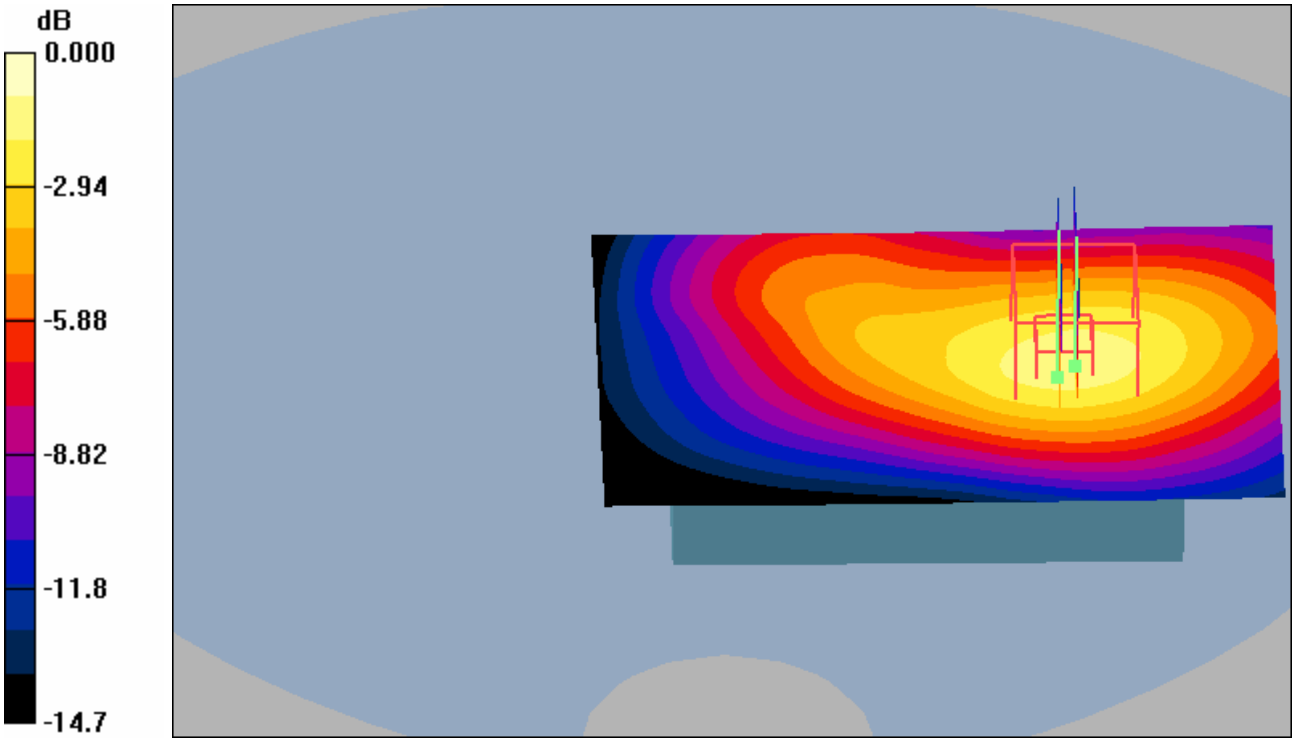

Interpolated SAR(x,y,z,f0)
SAR; Zoom Scan:Value Along Z, X=15, Y=17
dB
-0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
-11
-12
0.000
0.005
0.010
0.015
0.020
0.025
0.030
0.035
m

Prepared (also subject responsible if other)		No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon		REP 2006 003 W300i 02	
Approved	Checked		
SEM/CV/PF/P Gerard Hayes		A	X:\SAR Chamber\FCC reports\W300I\Final Reports\FCCW300I.doc

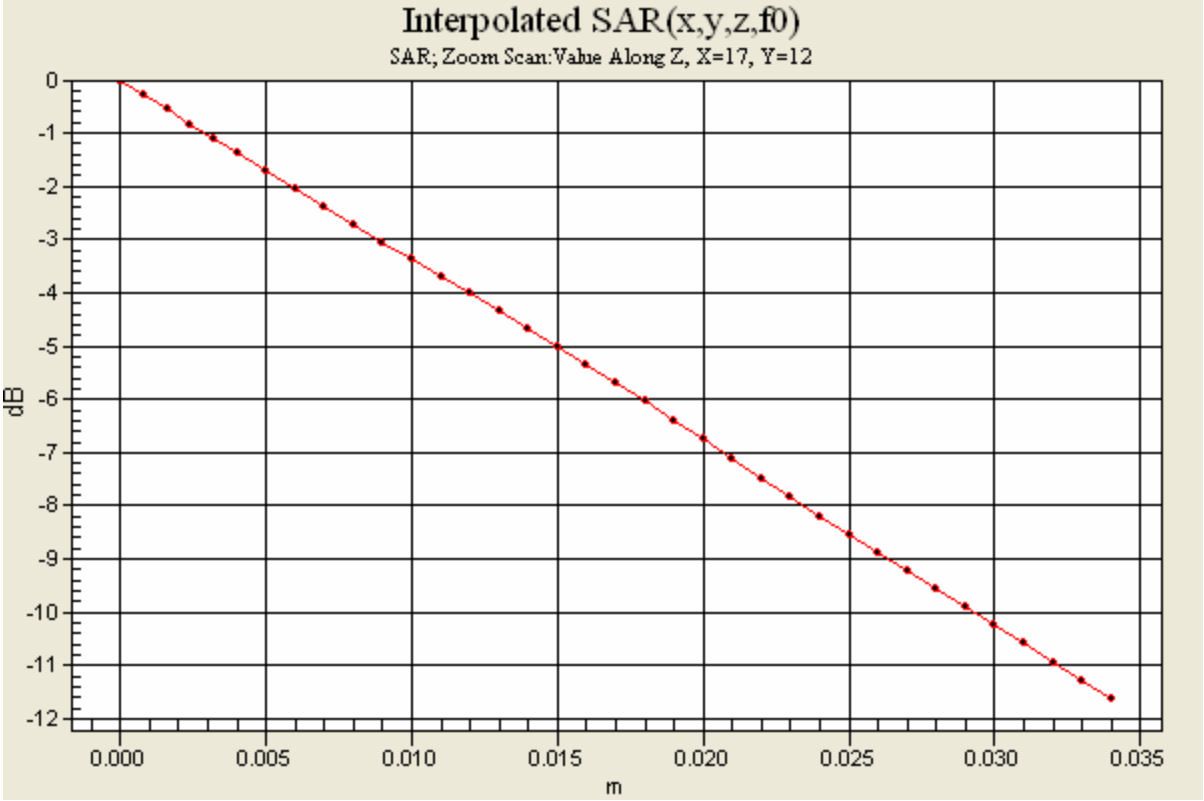
Distribution of maximum SAR in 1900 GSM band. Measured with back of device facing the body using the ICE-26 Carry Case with Blue Tooth. (Standard Battery BST-33)

Date/Time: 3/24/2006 5:25:59 PM
File Name: 24Mar06_W300i_GSM1900_0ES1_BT_ICE26_BB01.da4
DUT: W300i body
Program Notes: Battery - BST33 Humidity - 37.2 % Ambient Temp - 24 C Simulant Temp - 23.7 C
Communication System: DCS 1900 Body; Frequency: 1909.8 MHz;Duty Cycle: 1:4.15
Medium: Head 1800/1900 MHzMedium parameters used: f = 1910 MHz; s = 1.53 mho/m; e_r = 51.6; ? = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1539; ConvF(4.12, 4.12, 4.12); Calibrated: 11/22/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/10/2005
- Phantom: SAM with CRP (High Band Body); Type: SAM; Serial: TP: 1020
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Unnamed procedure 3/Area Scan (51x81x1):
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.05 mW/g
Unnamed procedure 3/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.7 V/m; Power Drift = -0.011 dB
Peak SAR (extrapolated) = 1.44 W/kg
SAR(1 g) = 0.972 mW/g; SAR(10 g) = 0.626 mW/g
Maximum value of SAR (measured) = 1.04 mW/g
Unnamed procedure 3/Zoom Scan (31x31x36)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.7 V/m; Power Drift = -0.011 dB
Maximum value of SAR (interpolated) = 1.44 mW/g



0 dB = 1.44mW/g


Interpolated SAR(x,y,z,f0)
SAR; Zoom Scan:Value Along Z, X=17, Y=12
dB
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
-11
-12
0.000
0.005
0.010
0.015
0.020
0.025
0.030
0.035
m