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## Exhibit 11: SAR Test Report of Portable Cellular Phone FCC ID: PY7A1061011 Model : T292a

**Date of test:** June 28 – June30, 2005  
**Date of Report:** August 16, 2005

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

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 Technician III, Product Verification Group

**Test Responsible:** Gerard Hayes *Gerard James Hayes 8 SEPTEMBER 2005*  
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**Accreditation:** This laboratory is accredited to ISO/IEC 17025-1999 to perform the following electromagnetic exposure tests:



- Specific Absorption Rate (SAR)
- Dielectric parameters
- RF power measurement

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 PY7A1061011 model T292A 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 PY7A1061011 model T292A. 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

<b>Type</b>	Internal antenna	
<b>Location</b>	Inside back cover, above the battery comp.	
<b>Dimensions</b>	Width	32mm
	Length	29mm
	Height	5mm
<b>Configuration</b>	PIFA – Type Antenna	

### 2.2 Device description

<b>FCC ID Number / Device Model</b>	PY7A1061011 / T292A	
<b>Serial number</b>	BD30226DW3	
<b>Mode(s) of Operation</b>	GSM 1900	
<b>Modulation Mode(s)</b>	TDMA	
<b>Target Value and Factory Tolerance Window for Maximum Output Power Setting</b>	$f_{low}$	24.5 dBm + 0.8dB / -1.0 dB
	$f_{mid}$	24.5 dBm + 0.8dB / -1.0 dB
	$f_{high}$	24.5 dBm + 0.8dB / -1.0 dB
<b>Calibration Frequency (<math>f_{low}</math>, <math>f_{mid}</math>, <math>f_{high}</math>)</b>	$f_{low}$	
<b>Duty Cycle</b>	1/8 GSM	
<b>Transmitting Frequency Rang(s)</b>	1850-1910 MHz	
<b>Production Unit or Identical Prototype (47 CFR §2.908)</b>	Identical Prototype	
<b>Device Category</b>	Portable	
<b>RF Exposure Limits</b>	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 ±10.73% (K=1) with an expanded uncertainty of ±21.45% (K=2) for Dasy3™ v3.1d and ±9.46% (K=1) with an expanded uncertainty of ±18.91% (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, DV1900V2	536	19-May-2006
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,  $\epsilon_r$ , and the conductivity,  $\sigma$ , 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 22.6 - 23.7°C, the relative humidity was 43.2% - 48.5%, 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		
			$\epsilon_r$	$\sigma$ (S/m)	Simulated Tissue Temp (°C)
1900	Head	Measured, 28-June-05	40.0	1.451	23.7
		Measured, 29-June-05	39.99	1.429	23.5
		Recommended Limits	<b>40.00</b>	<b>1.40</b>	<b>20-25</b>
	Body	Measured, 30-June-05	51.21	1.487	23.8
		Recommended Limits	<b>53.30</b>	<b>1.52</b>	<b>20-25</b>

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

Ingredient	1800/1900MHz	1900MHz
	Head	Body
Sugar	--	--
DGBE	44.92%	30.82%
Water	54.90%	68.89%
Salt	0.18%	0.29%
HEC	--	--
Bact.	--	--



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### 5. System Accuracy Verification

A system accuracy verification of the DASY3/4 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 1900MHz. These frequencies are within 100MHz of the mid-band frequency of the test device, according to [1]. The test was conducted on the same days as the measurement of the DUT. The results from the system accuracy verification are displayed in the table below (SAR values are normalized to 1W forward power delivered to the dipole). During the tests, the ambient temperature of the laboratory was in the range 23.3-24.7 °C, the relative humidity was in the range 44.3 – 54.2 % 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 0.0006 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)
					ε <sub>r</sub>	σ (S/m)	
1900	Head	Measured, 28-June-05	38.8	20.4	40.0	1.451	23.7
		Measured, 29-June-05	38.0	20.0	39.99	1.429	23.5
		Recommended Limits	<b>39.70</b>	<b>20.50</b>	<b>40.00</b>	<b>1.40</b>	<b>20-25</b>
	Body	Measured, 30-June-05	41.6	21.5	51.21	1.487	23.8
		Recommended Limits	<b>40.50</b>	<b>20.89</b>	<b>53.30</b>	<b>1.52</b>	<b>20-25</b>



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**6. Test Results**

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 this test 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 PY7A1061011 has one battery option: CBA-0001001 (BST-30) Standard Lithium Ion Battery. This battery type was used for all SAR testing. 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 through 4 are maximum SAR values averaged over 1 gram and 10 grams of phantom tissue. Also shown are the measured conducted output powers, the temperature of the test facility during the test, the temperature of the simulated tissue, the measured drift, and the extrapolated SAR. The extrapolated SAR corresponds to the measured SAR scaled to the maximum conducted output power.

The humidity and ambient temperature of the test facility were in the ranges 47.9-48.5% and 22.6-23.5°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.

<b>Summary of Maximum Extrapolated SAR Results : Head Adjacent</b>			
<b>Frequency</b>	<b>Extrapolated SAR (W/kg)</b>		<b>Test Configuration</b>
	<b>1 g</b>	<b>10 g</b>	
<b>1900 GSM</b>	<b>0.154</b>	<b>0.080</b>	<b>Channel 660/ 1880 MHz Right Head, Cheek/Touch Position</b>



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f (MHz)	Channel/ frequency	Conducted Output Power (dBm)  GSM 1:8 Duty Cycle	FCC ID PY7A1061011 with Standard Battery BST-30						
			Left Head (Cheek / Touch Position)						
			Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		Ambi ent Temp (°C)	Simulate Temp (°C)
1900 GSM	512 / 1850	25.1	0.0809	0.0455	-.0914	0.085	0.048	23.5	23.8
	<b>660/1880</b>	<b>24.8</b>	<b>0.086</b>	<b>0.0473</b>	<b>0.0232</b>	<b>0.090</b>	<b>0.050</b>	<b>23.5</b>	<b>23.8</b>
	810/1910	24.5	0.0859	0.047	0.0241	0.090	0.049	23.5	23.8
f (MHz)	Channel/ frequency	Conducted Output Power (dBm)  GSM 1:8 Duty Cycle	FCC ID PY7A1061011 with Standard Battery BST-30						
			Left Head (15° Tilt Position)						
			Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		Ambi ent Temp (°C)	Simulate Temp (°C)
1900 GSM	512 / 1850	25.1	0.0757	0.0452	-0.0167	0.079	0.047	23.3	23.5
	<b>660/1880</b>	<b>24.8</b>	<b>0.0808</b>	<b>0.0484</b>	<b>0.087</b>	<b>0.085</b>	<b>0.051</b>	<b>23.3</b>	<b>23.5</b>
	810/1910	24.5	0.0655	0.0388	-0.0169	0.069	0.041	23.3	23.5

**Table 1: SAR measurement results for the portable cellular telephone FCC ID PY7A1061011 model T292A at maximum output power with Standard Battery BST-30.**



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FCC ID PY7A1061011 with Standard Battery BST-30									
Right Head (Cheek / Touch Position)									
f (MHz)	Channel/ frequency	Conducted Output Power (dBm)  GSM 1:8 Duty Cycle	Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		Ambi ent Temp (°C)	Simulate Temp (°C)
1900 GSM	512 / 1850	25.1	0.11	0.0575	-0.0594	0.115	0.060	22.6	21.8
	<b>660/1880</b>	<b>24.8</b>	<b>0.147</b>	<b>0.0763</b>	<b>0.11</b>	<b>0.154</b>	<b>0.080</b>	<b>22.6</b>	<b>21.8</b>
	810/1910	24.5	0.135	0.0695	-0.0347	0.141	0.073	22.6	21.8
FCC ID PY7A1061011 with Standard Battery BST-30									
Right Head (15° Tilt Position)									
f (MHz)	Channel/ frequency	Conducted Output Power (dBm)  GSM 1:8 Duty Cycle	Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		Ambi ent Temp (°C)	Simulate Temp (°C)
1900 GSM	512 / 1850	25.1	0.0872	0.0507	-0.0265	0.091	0.053	22.9	21.9
	660/1880	24.8	0.0933	0.0542	0.0674	0.098	0.057	22.9	21.9
	<b>810/1910</b>	<b>24.5</b>	<b>0.0935</b>	<b>0.0541</b>	<b>0.151</b>	<b>0.098</b>	<b>0.057</b>	<b>22.9</b>	<b>21.9</b>

**Table 2: SAR measurement results for the portable cellular telephone FCC ID PY7A1061011 model T292A at maximum output power with Standard Battery BST-30.**



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### 6.2 Body-Worn Test Results

The SAR results shown in tables 3, 4 and 5 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 43.2-45.1% and 23.2-23.7°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 accessories were tested for this phone:

- Carry case model ICE-25
- Carry case model ICT-14
- 15 mm spacer

A full data set output of the test conditions with the highest SAR values from the Dasy3™ 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	
<b>1900 GSM</b>	<b>0.267</b>	<b>0.158</b>	<b>Channel 512, 1850 MHz, Carry case model ICE-25 Back of phone facing body.</b>



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f (MHz)	Channel/ frequency	Conducted Output Power (dBm)  GSM 1:8 Duty Cycle	FCC ID PY7A1061011 with Standard Battery BST-30						
			Body Worn (PHF: HPB-20)			Carry Accessory: ICE-25			
			Back of phone facing body						
		Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		Ambi ent Temp (°C)	Simulate Temp (°C)	
1900 GSM	512 / 1850	25.1	0.255	0.151	0.00	0.267	0.158	23.5	22
	660/1880	24.8	0.191	0.112	-0.02	0.200	0.117	23.5	22
	810/1910	24.5	0.128	0.0712	-0.02	0.134	0.075	23.5	22
f (MHz)	Channel/ frequency	Conducted Output Power (dBm)  GSM 1:8 Duty Cycle	FCC ID PY7A1061011 with Standard Battery BST-30						
			Body Worn (PHF: HPB-20)			Carry Accessory: ICE-25			
			Front of phone facing body						
		Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		Ambi ent Temp (°C)	Simulate Temp (°C)	
1900 GSM	512 / 1850	25.1	0.0253	0.0155	0.01	0.026	0.016	23.7	22.8
	660/1880	24.8	0.0181	0.011	0.14	0.019	0.012	23.7	22.8
	810/1910	24.5	0.013	0.0078	0.03	0.014	0.008	23.7	22.8

**Table 3: SAR measurement results for the portable cellular telephone FCC ID PY7A1061011 model T292A at maximum output power with Standard Battery BST-30. Measured against the body with carry accessory ICE-25.**



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f (MHz)	Channel/ frequency	Conducted Output Power (dBm)  GSM 1:8 Duty Cycle	FCC ID PY7A1061011 with Standard Battery BST-30						
			Body Worn (PHF: HPB-20)			Carry Accessory: ICT-14			
			Back of phone facing body						
		Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		Ambi ent Temp (°C)	Simulate Temp (°C)	
1900 GSM	512 / 1850	25.1	0.182	0.109	-0.03	0.191	0.114	23.7	22.2
	660/1880	24.8	0.165	0.101	-0.01	0.173	0.106	23.7	22.2
	810/1910	24.5	0.118	0.0722	0.00	0.124	0.076	23.7	22.2
f (MHz)	Channel/ frequency	Conducted Output Power (dBm)  GSM 1:8 Duty Cycle	FCC ID PY7A1061011 with Standard Battery BST-30						
			Body Worn (PHF: HPB-20)			Carry Accessory: ICT-14			
			Front of phone facing body						
		Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		Ambi ent Temp (°C)	Simulate Temp (°C)	
1900 GSM	512 / 1850	25.1	0.0677	0.0381	0.02	0.071	0.040	23.7	22.2
	660/1880	24.8	0.0499	0.0276	0.02	0.052	0.029	23.7	22.2
	810/1910	24.5	0.0407	0.0224	0.12	0.043	0.023	23.7	22.2

**Table 4: SAR measurement results for the portable cellular telephone FCC ID PY7A1061011 model T292A at maximum output power with Standard Battery BST-30. Measured against the body with carry accessory ICT-14.**



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f (MHz)	Channel/ frequency	Conducted Output Power (dBm)  GSM 1:8 Duty Cycle	FCC ID PY7A1061011 with Standard Battery BST-30						
			Body Worn (PHF: HPB-20)			Carry Accessory: 15mm Spacer			
			Back of phone facing body						
			Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		Ambi ent Temp (°C)	Simulate Temp (°C)
1900 GSM	512 / 1850	25.1	0.145	0.0852	0.02	0.152	0.089	23.6	22.3
	<b>660/1880</b>	<b>24.8</b>	<b>0.186</b>	<b>0.11</b>	<b>-0.02</b>	<b>0.195</b>	<b>0.115</b>	<b>23.6</b>	<b>22.3</b>
	810/1910	24.5	0.177	0.106	0.00	0.185	0.111	23.6	22.3
f (MHz)	Channel/ frequency	Conducted Output Power (dBm)  GSM 1:8 Duty Cycle	FCC ID PYA1061011 with Standard Battery BST-30						
			Body Worn (PHF: HPB-20)			Carry Accessory: 15mm Spacer			
			Front of phone facing body						
			Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		Ambi ent Temp (°C)	Simulate Temp (°C)
1900 GSM	512 / 1850	25.1	0.0263	0.0159	0	0.028	0.017	23.2	22.5
	<b>660/1880</b>	<b>24.8</b>	<b>0.0276</b>	<b>0.0167</b>	<b>-0.02</b>	<b>0.029</b>	<b>0.017</b>	<b>23.2</b>	<b>22.5</b>
	810/1910	24.5	0.0223	0.0131	0.01	0.023	0.014	23.2	22.5

**Table 5: SAR measurement results for the portable cellular telephone FCC ID PY7A1061011 model T292A at maximum output power with Standard Battery BST-30. Measured against the body with 15mm spacer.**



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

APPLICANT: Sony Ericsson Mobile Communications Inc.

FCC ID: **PY7A1061011**



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### Appendix 1

### SAR distribution comparison for the system accuracy verification



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**1900 MHz SAR Distribution of Validation Dipole Antenna  
System Performance Check on June 28, 2005 (Using head tissue).  
Validation\_1900Head\_536\_1335\_28June05\_T01**

File Name: [Validation\\_1900Head\\_536\\_1335\\_28June05\\_T01.da4](#)

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

Probe: ET3DV6 - SN1587 ConvF(5.05, 5.05, 5.05) Duty Cycle: 1:1 Frequency: 1900 MHz

Medium parameters used:  $f = 1900 \text{ MHz}$ ;  $s = 1.45 \text{ mho/m}$ ;  $\epsilon_r = 40$ ;  $\rho = 1000 \text{ kg/m}^3$

Measurement Standard: DAS4 (High Precision Assessment)

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

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

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

Reference Value = 54.7 V/m; Power Drift = 0.033 dB

Peak SAR (extrapolated) = 6.83 W/kg

**SAR(1 g) = 3.9 mW/g; SAR(10 g) = 2.05 mW/g**

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

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

Reference Value = 54.7 V/m; Power Drift = 0.033 dB

Peak SAR (extrapolated) = 6.76 W/kg

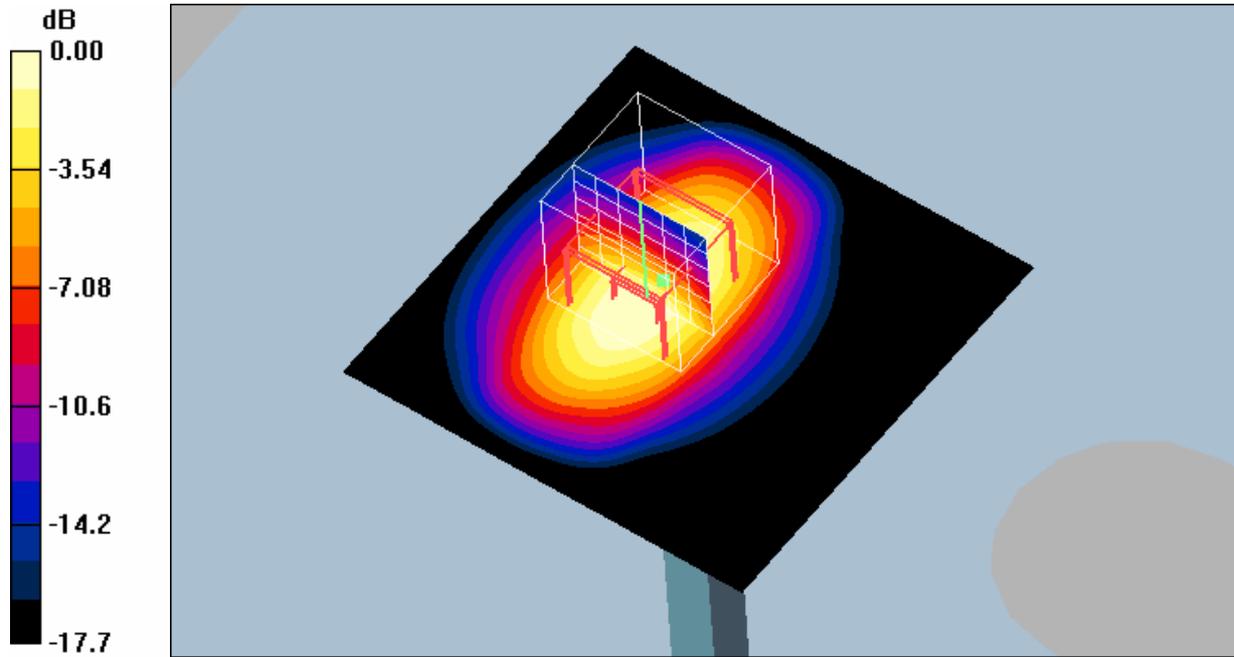
**SAR(1 g) = 3.9 mW/g; SAR(10 g) = 2.05 mW/g**

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

Procedure Notes: Pin: before 100.4 mW / after 100.4 mW Humidity: 44.3% Ambient Temp: 24.7 C  
Simulant Temp: 23.4 C



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**1900 MHz SAR Distribution of Validation Dipole Antenna  
System Performance Check on June 29, 2005 (Using head tissue).  
Validation\_1900Head\_536\_1335\_29June05\_T01**

File Name: [Validation\\_1900Head\\_536\\_1335\\_29June05\\_T01.da4](#)

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

Probe: ET3DV6 - SN1587 ConvF(5.05, 5.05, 5.05) Duty Cycle: 1:1 Frequency: 1900 MHz

Medium parameters used:  $f = 1900$  MHz;  $s = 1.43$  mho/m;  $\epsilon_r = 40$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Measurement Standard: DAS4 (High Precision Assessment)

**Dipole at 10 mm/Area Scan (61x61x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 4.74 mW/g

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

Reference Value = 56.0 V/m; Power Drift = 0.015 dB

Peak SAR (extrapolated) = 6.67 W/kg

**SAR(1 g) = 3.82 mW/g; SAR(10 g) = 2.01 mW/g**

Maximum value of SAR (measured) = 4.27 mW/g

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

Reference Value = 56.0 V/m; Power Drift = 0.015 dB

Peak SAR (extrapolated) = 6.69 W/kg

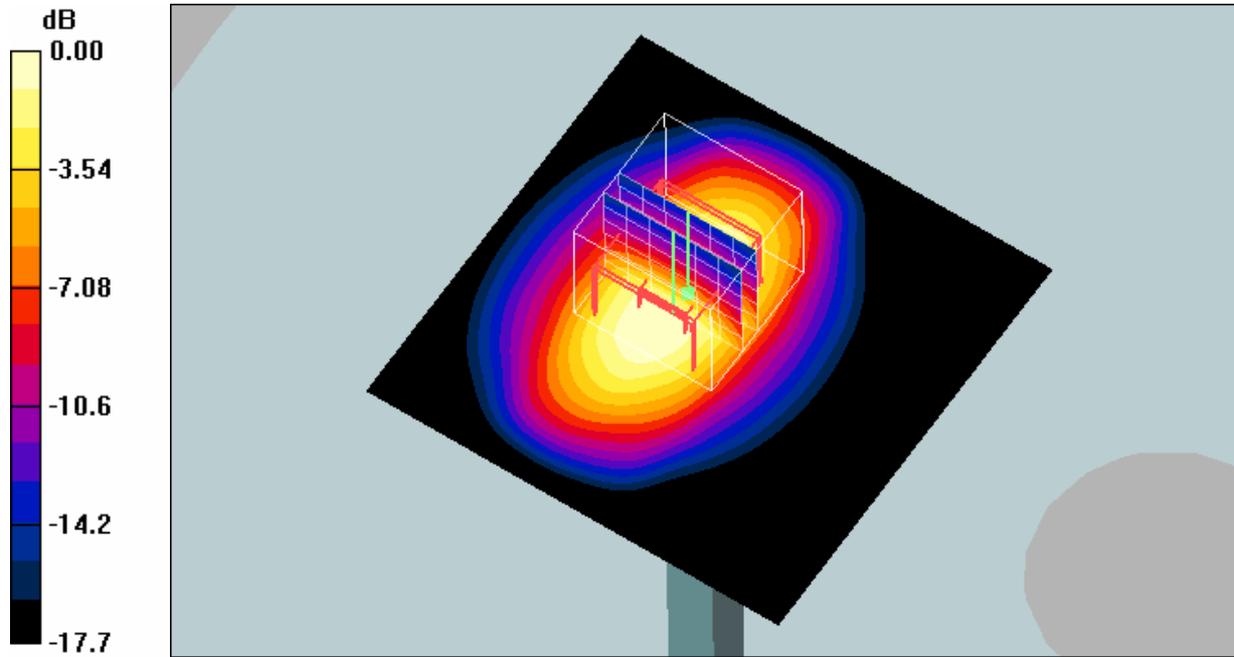
**SAR(1 g) = 3.82 mW/g; SAR(10 g) = 2.01 mW/g**

Maximum value of SAR (measured) = 4.31 mW/g

Procedure Notes: Pin: before 100.4 mW / after 100.4 mW Humidity: 48.5% Ambient Temp: 23.3 C  
Simulant Temp: 23.5 C



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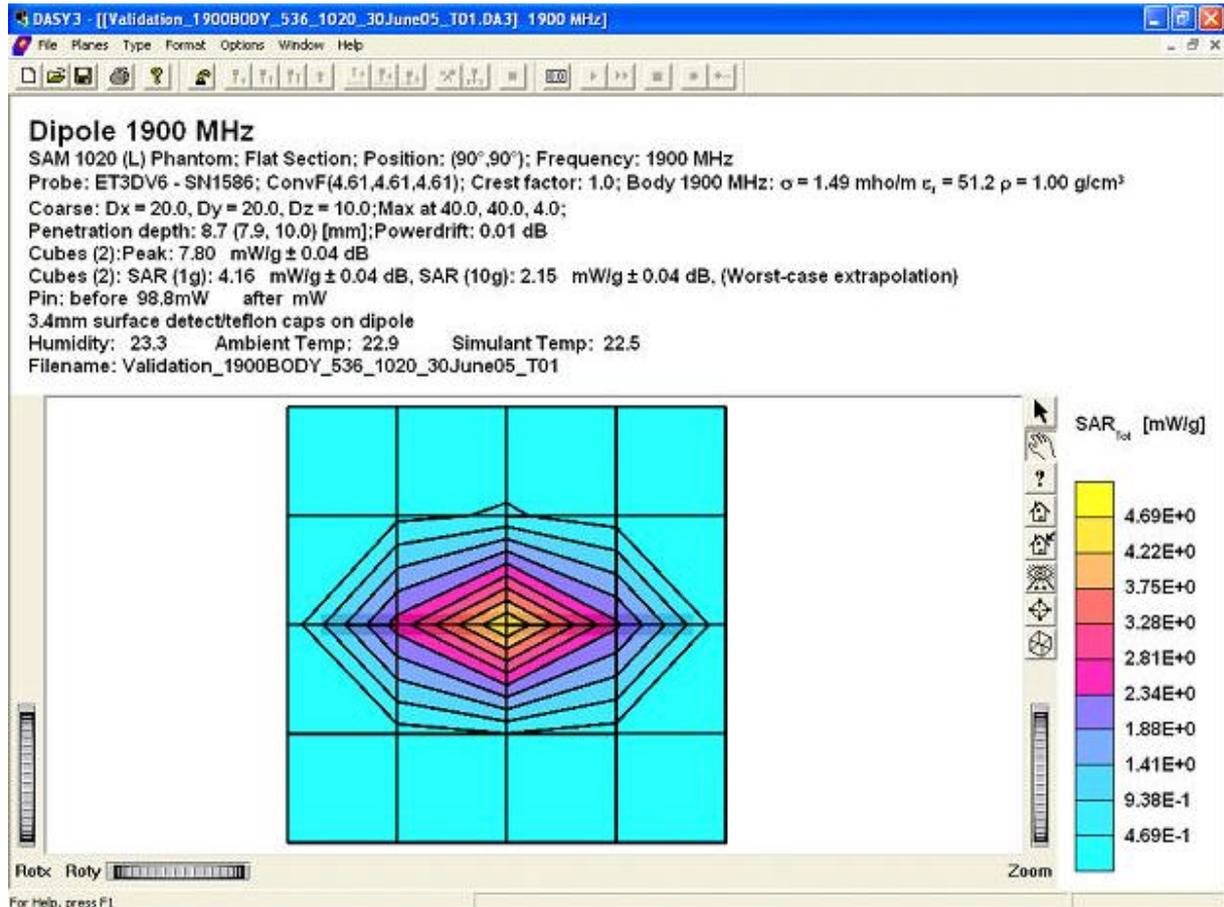


0 dB = 4.31mW/g



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**1900 MHz SAR Distribution of Validation Dipole Antenna  
System Performance Check on June 30, 2005 (Using muscle/body tissue).**



APPLICANT: Sony Ericsson Mobile Communications Inc.

FCC ID: **PY7A1061011**



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**Appendix 2**

**SAR distribution plots for Phantom Head Adjacent Use**



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**1900 GSM Band: SAR Distribution and Extrapolation of Maximum SAR**

**Model: T292a SN: BD0226DW3 with Standard Battery: BST-30**

**Left Side, Cheek/Touch Position.**

File Name: [29June05\\_T292a\\_GSM1900\\_6DW3\\_LC01.da4](#)

**DUT: T292a**

Program Notes: Battery BST-30 Humidity: 47.9 Ambient Temp: 23.5 Simulant Temp: 23.8

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

Medium: Head 1800/1900 MHz Medium parameters used: f = 1880 MHz; s = 1.43 mho/m;  $\epsilon_r = 40.1$ ;  $\rho = 1000 \text{ kg/m}^3$

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: 1335
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

**Channel 660/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.090 mW/g

**Channel 660/Zoom Scan (9x9x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.88 V/m; Power Drift = 0.023 dB

Peak SAR (extrapolated) = 0.136 W/kg

**SAR(1 g) = 0.086 mW/g; SAR(10 g) = 0.047 mW/g**

Maximum value of SAR (measured) = 0.096 mW/g

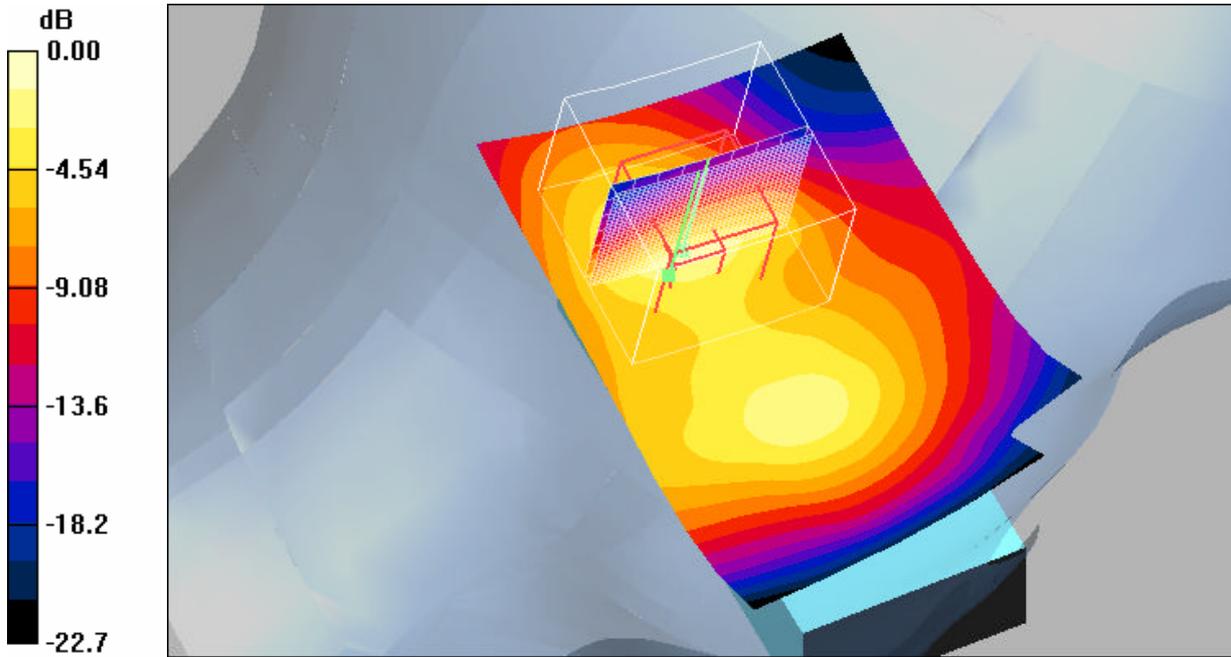
**Channel 660/Zoom Scan (41x41x36)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.88 V/m; Power Drift = 0.023 dB

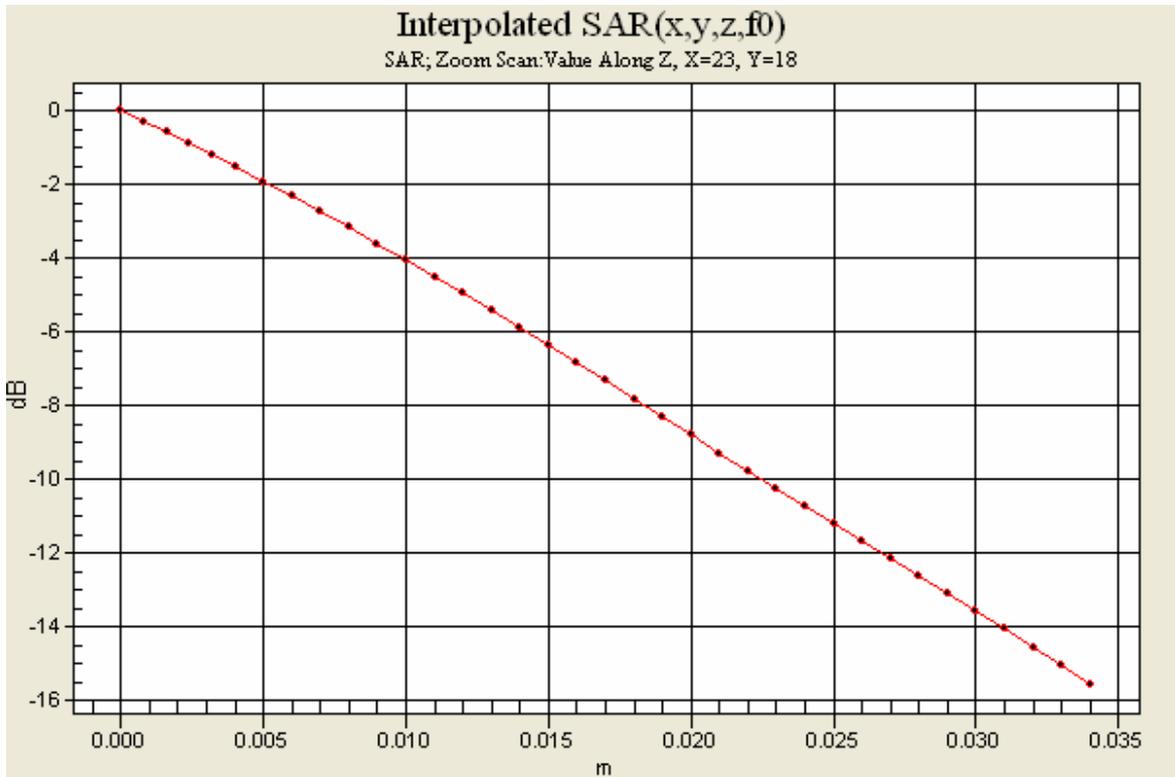
Maximum value of SAR (interpolated) = 0.136 mW/g



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0 dB = 0.136mW/g





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**1900 GSM Band: Distribution and Extrapolation of Maximum SAR  
Model: T292A SN: BD0226DW3 with Standard Battery: BST-30  
Left Side, Tilt Position.**

File Name: [29June05\\_T292a\\_GSM1900\\_6DW3\\_LT01.da4](#)

**DUT: T292a**

Program Notes: Battery BST-30 Humidity: 48.5 Ambient Temp: 23.3 Simulant Temp: 23.5

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

Medium: Head 1800/1900 MHz Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $s = 1.43 \text{ mho/m}$ ;  $\epsilon_r = 40.1$ ;  
 $\rho = 1000 \text{ kg/m}^3$

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: 1335
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

**Channel 660/Area Scan (51x81x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.093 mW/g

**Channel 660/Zoom Scan (9x9x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 2.72 V/m; Power Drift = 0.087 dB

Peak SAR (extrapolated) = 0.118 W/kg

**SAR(1 g) = 0.081 mW/g; SAR(10 g) = 0.048 mW/g**

Maximum value of SAR (measured) = 0.088 mW/g

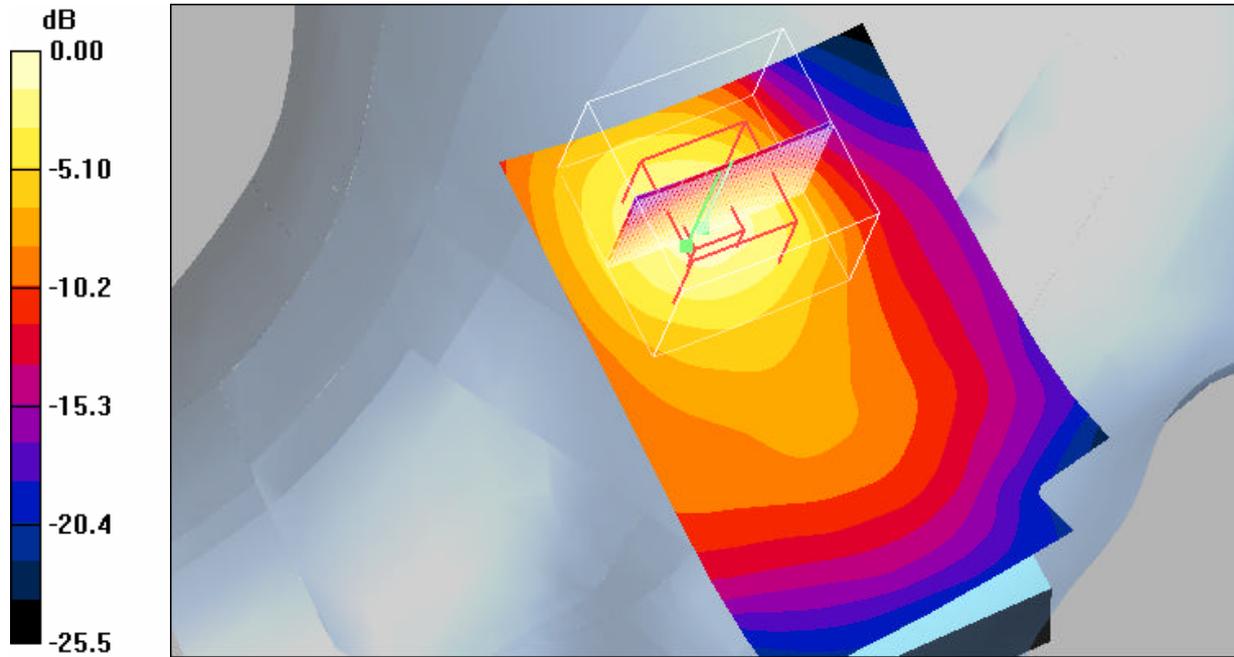
**Channel 660/Zoom Scan (41x41x36)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 2.72 V/m; Power Drift = 0.087 dB

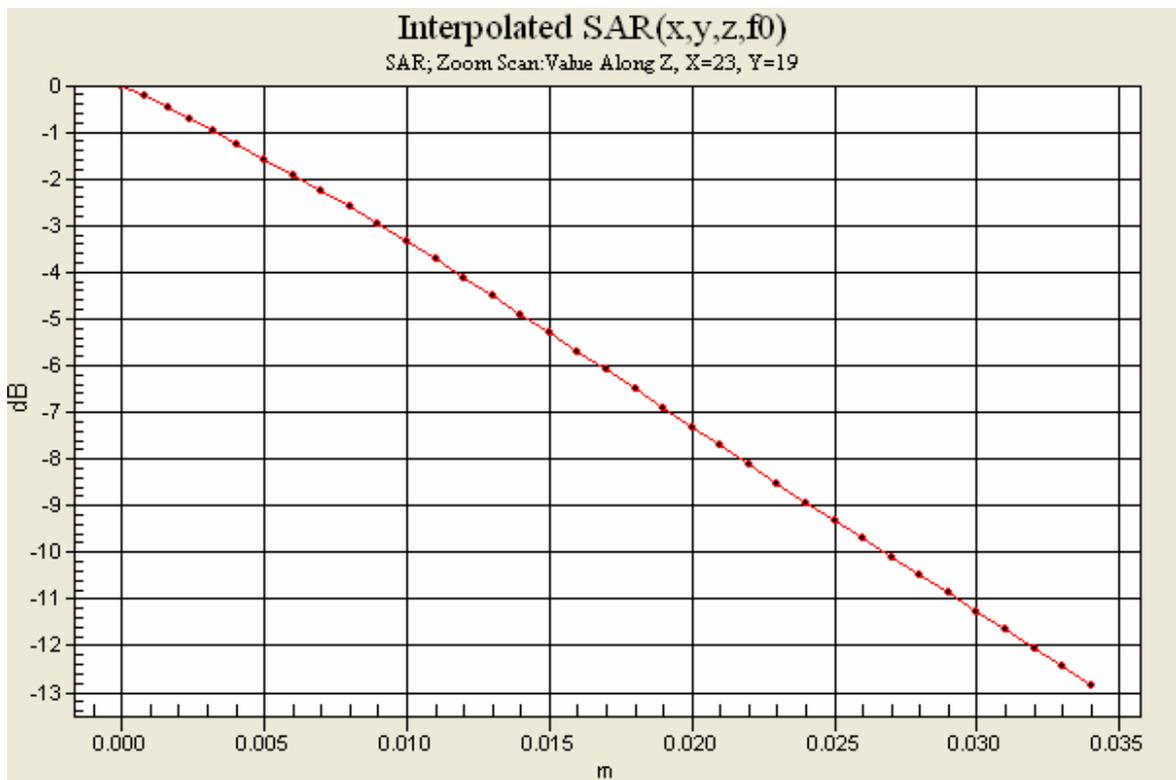
Maximum value of SAR (interpolated) = 0.118 mW/g



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0 dB = 0.118mW/g





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**1900 GSM Band: SAR Distribution and Extrapolation of Maximum SAR  
Model: T292a SN: BD0226DW3 with Standard Battery: BST-30  
Right Side, Cheek/Touch Position.**

File Name: [28June05\\_T292a\\_GSM1900\\_6DW3\\_RC01.da4](#)

**DUT: T292a**

Program Notes: Battery BST-30 Humidity: 47.9 Ambient Temp: 22.6 Simulant Temp: 21.8

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

Medium: Head 1800/1900 MHz Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $s = 1.43 \text{ mho/m}$ ;  $\epsilon_r = 40.1$ ;  
 $\rho = 1000 \text{ kg/m}^3$

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: 1335
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

**Channel 660/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

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

**Channel 660/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.94 V/m; Power Drift = -0.110 dB

Peak SAR (extrapolated) = 0.262 W/kg

**SAR(1 g) = 0.147 mW/g; SAR(10 g) = 0.076 mW/g**

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

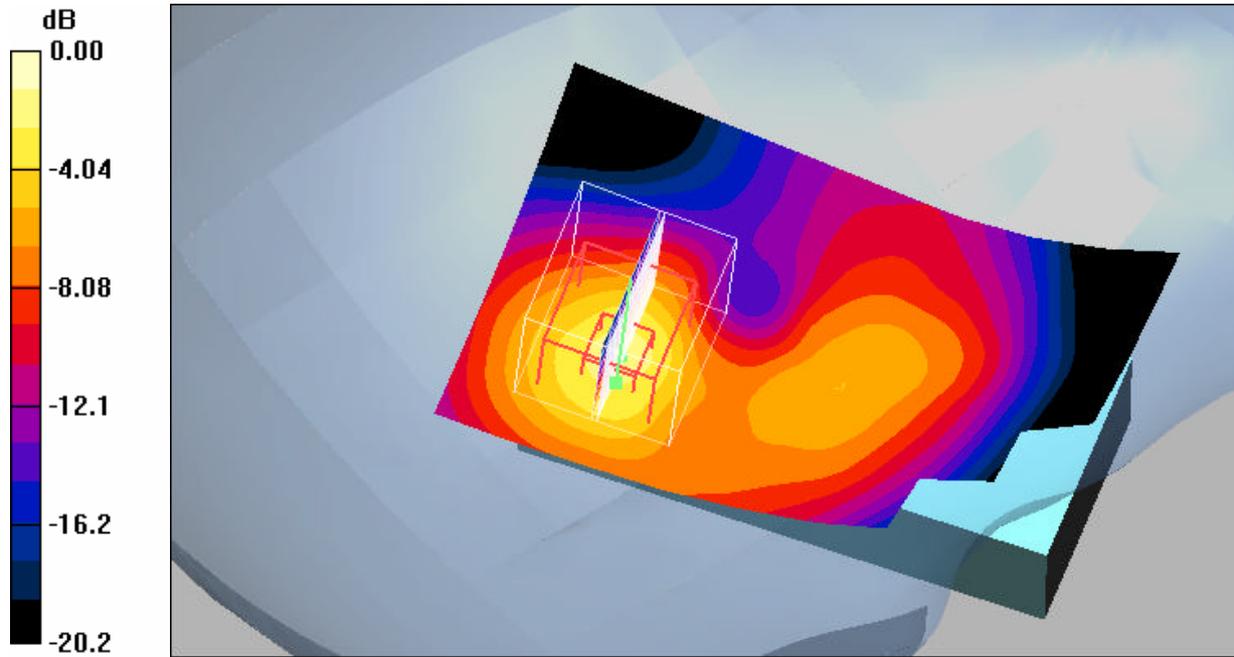
**Channel 660/Zoom Scan (31x31x36)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.94 V/m; Power Drift = -0.110 dB

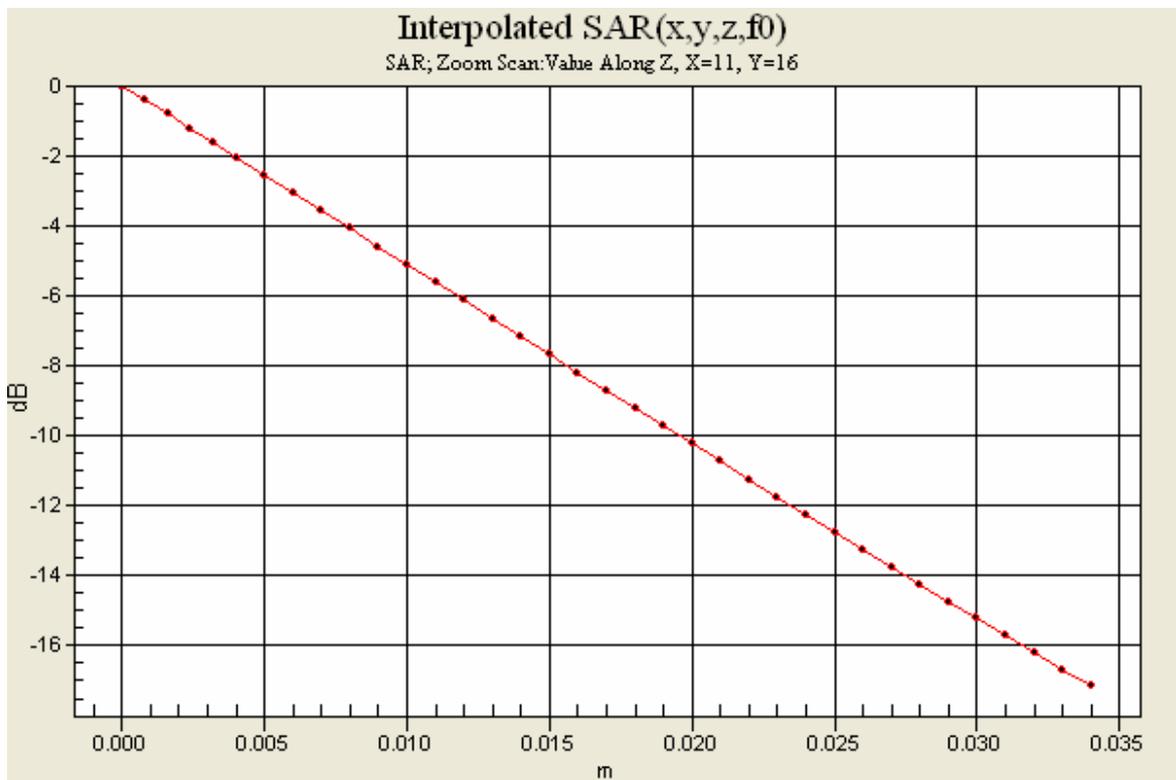
Maximum value of SAR (interpolated) = 0.262 mW/g



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0 dB = 0.262mW/g





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**1900 GSM Band: Distribution and Extrapolation of Maximum SAR  
Model: T292A SN: BD0226DW3 with Standard Battery: BST-30  
Right Side, Tilt Position.**

File Name: [28June05\\_T292a\\_GSM1900\\_6DW3\\_RT01.da4](#)

**DUT: T292a**

Program Notes: Battery BST-30 Humidity: 47.6 Ambient Temp: 22.9 Simulant Temp: 21.9  
Communication System: PCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3  
Medium: Head 1800/1900 MHz Medium parameters used (interpolated):  $f = 1909.8 \text{ MHz}$ ;  $s = 1.46 \text{ mho/m}$ ;  $\epsilon_r = 39.9$ ;  $\rho = 1000 \text{ kg/m}^3$   
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: 1335
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

**Channel 810/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.107 mW/g

**Channel 810/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.66 V/m; Power Drift = 0.151 dB

Peak SAR (extrapolated) = 0.140 W/kg

**SAR(1 g) = 0.093 mW/g; SAR(10 g) = 0.054 mW/g**

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

Maximum value of SAR (measured) = 0.103 mW/g

**Channel 810/Zoom Scan (31x31x36)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

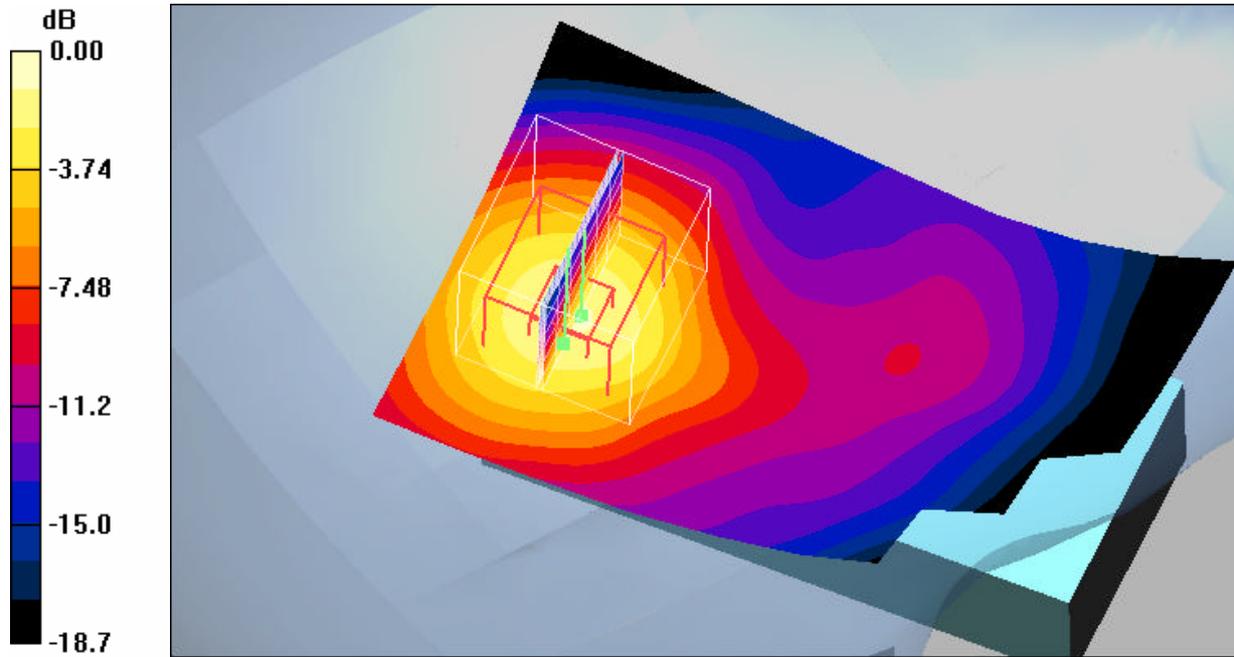
Reference Value = 2.66 V/m; Power Drift = 0.151 dB

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

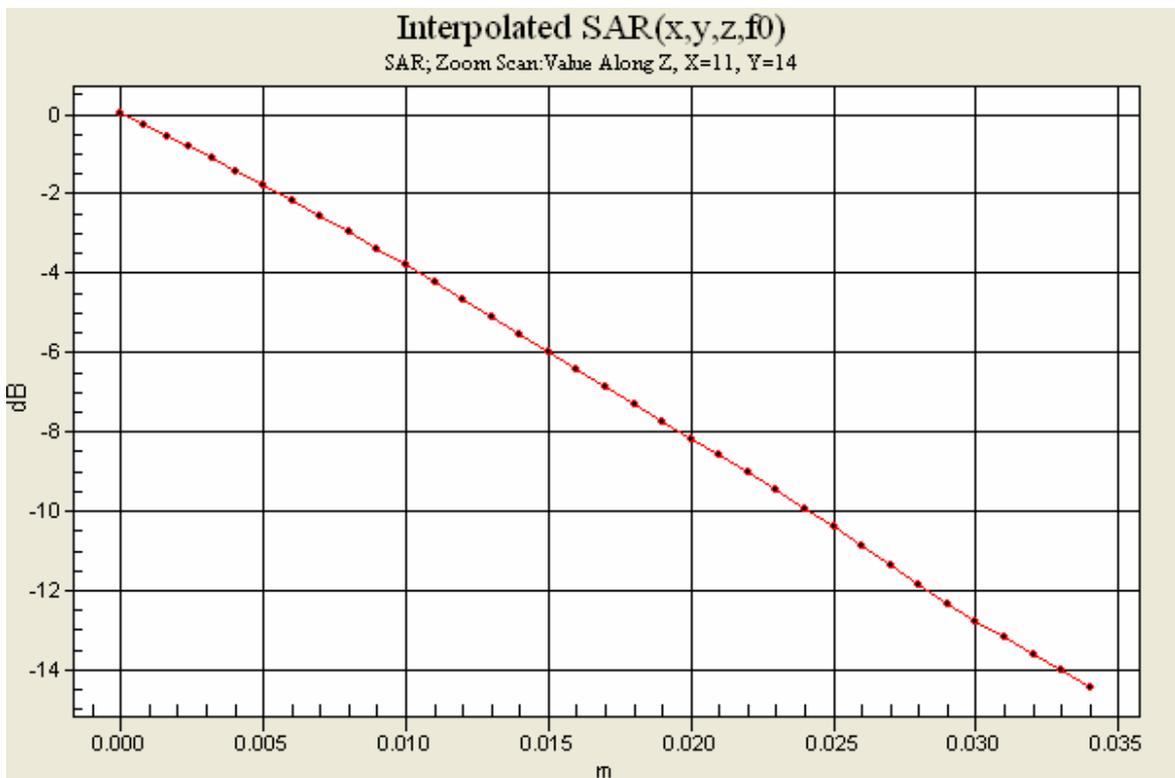
Maximum value of SAR (interpolated) = 0.140 mW/g



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0 dB = 0.140mW/g



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FCC ID: **PY7A1061011**



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### Appendix 3

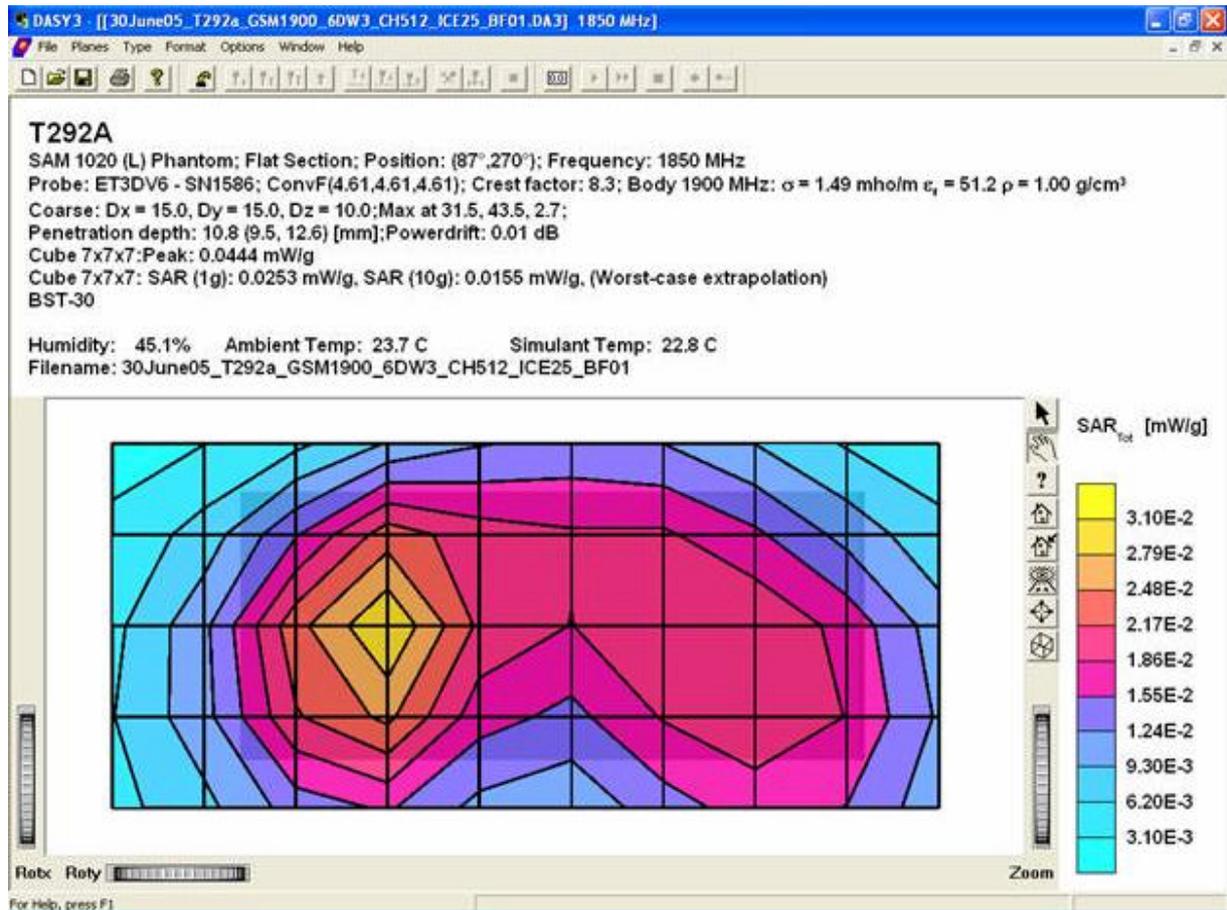
#### SAR distribution plots for Body Worn Configuration



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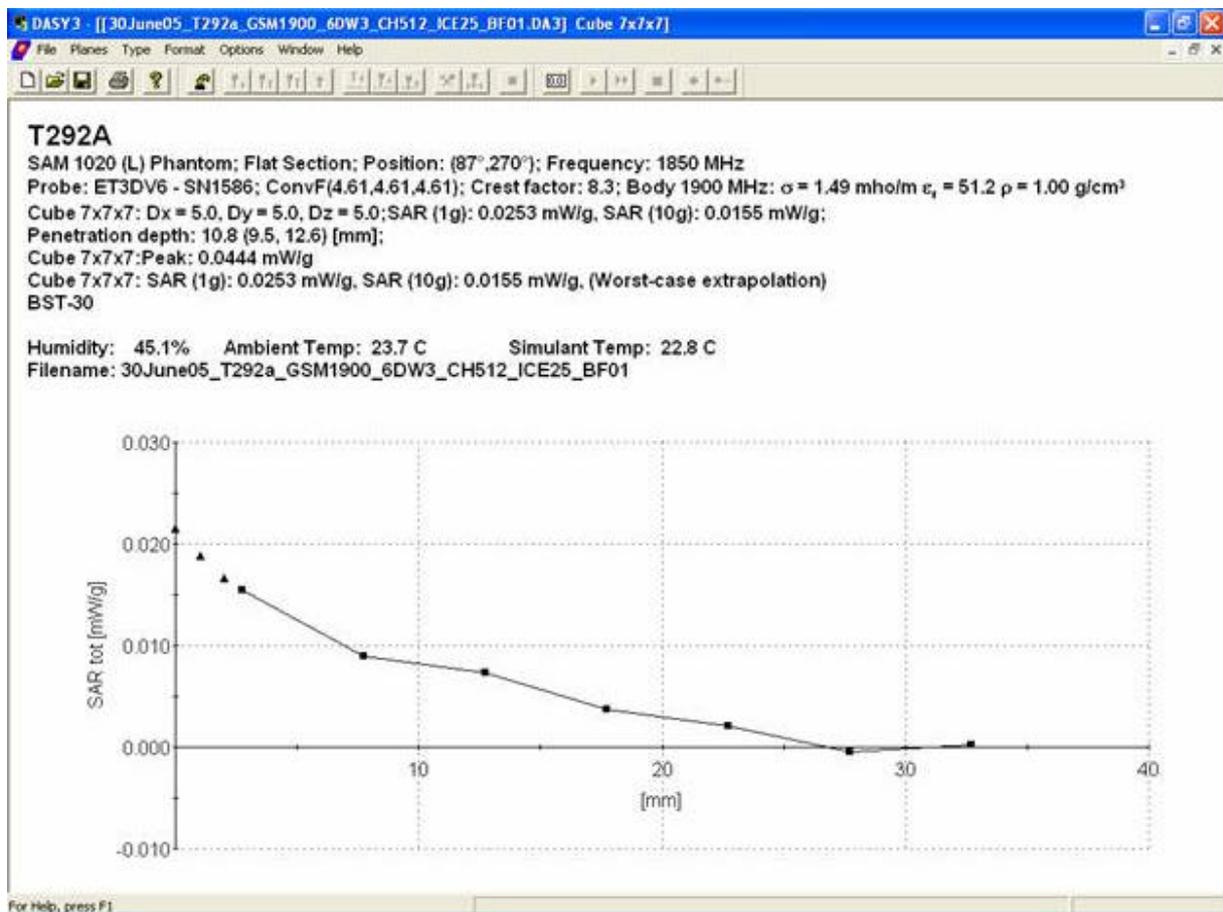
**Distribution of maximum SAR in 1900 GSM band. Measured with front of device facing the body using carry accessory ICE-25 and hands free accessory HPB-20. (Standard Battery, BST-30)**





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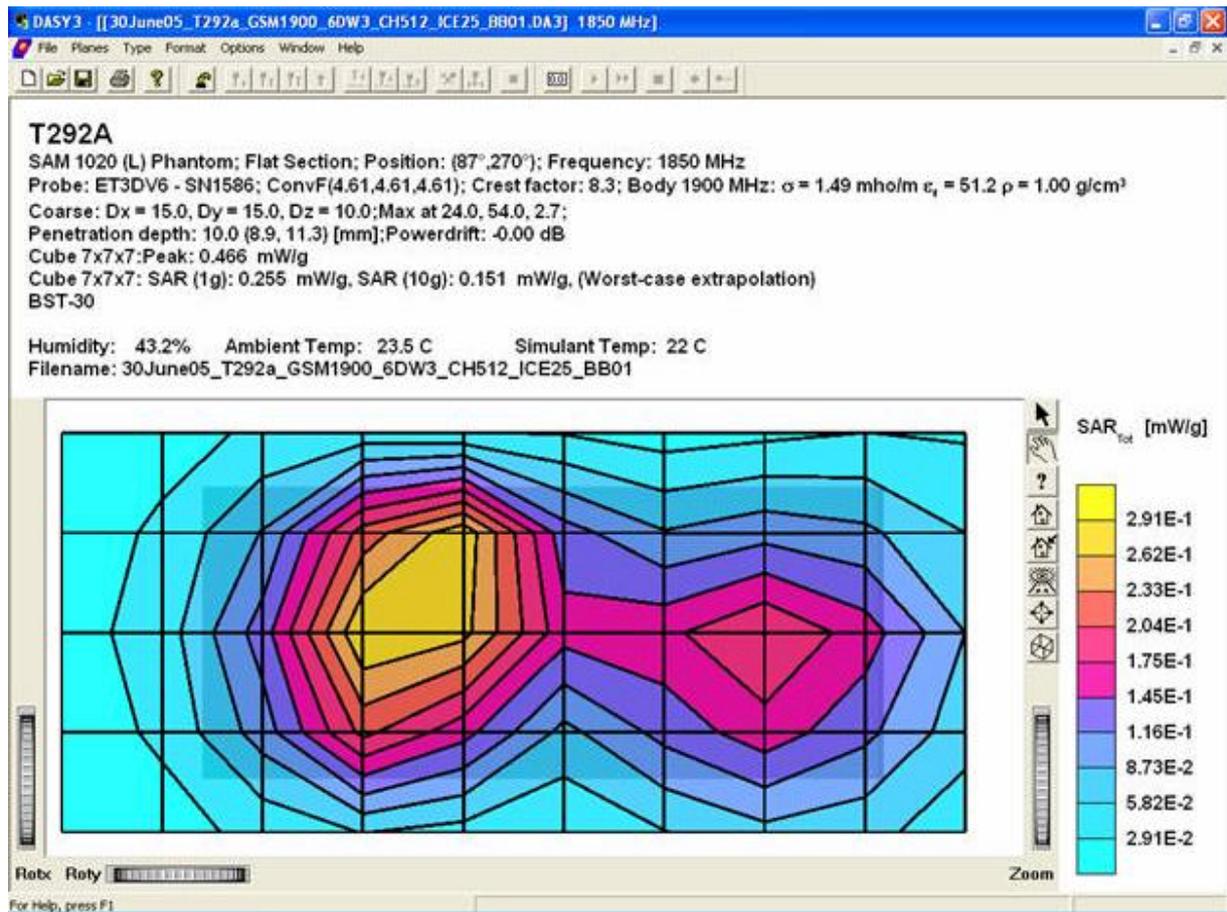
**SAR Extrapolation to the phantom inner surface. Measured for maximum SAR in 1900 GSM band, while front of the phone is against the body using carry accessory IEC-25 and hands free accessory HPB-20. (Standard Battery, BST-30)**





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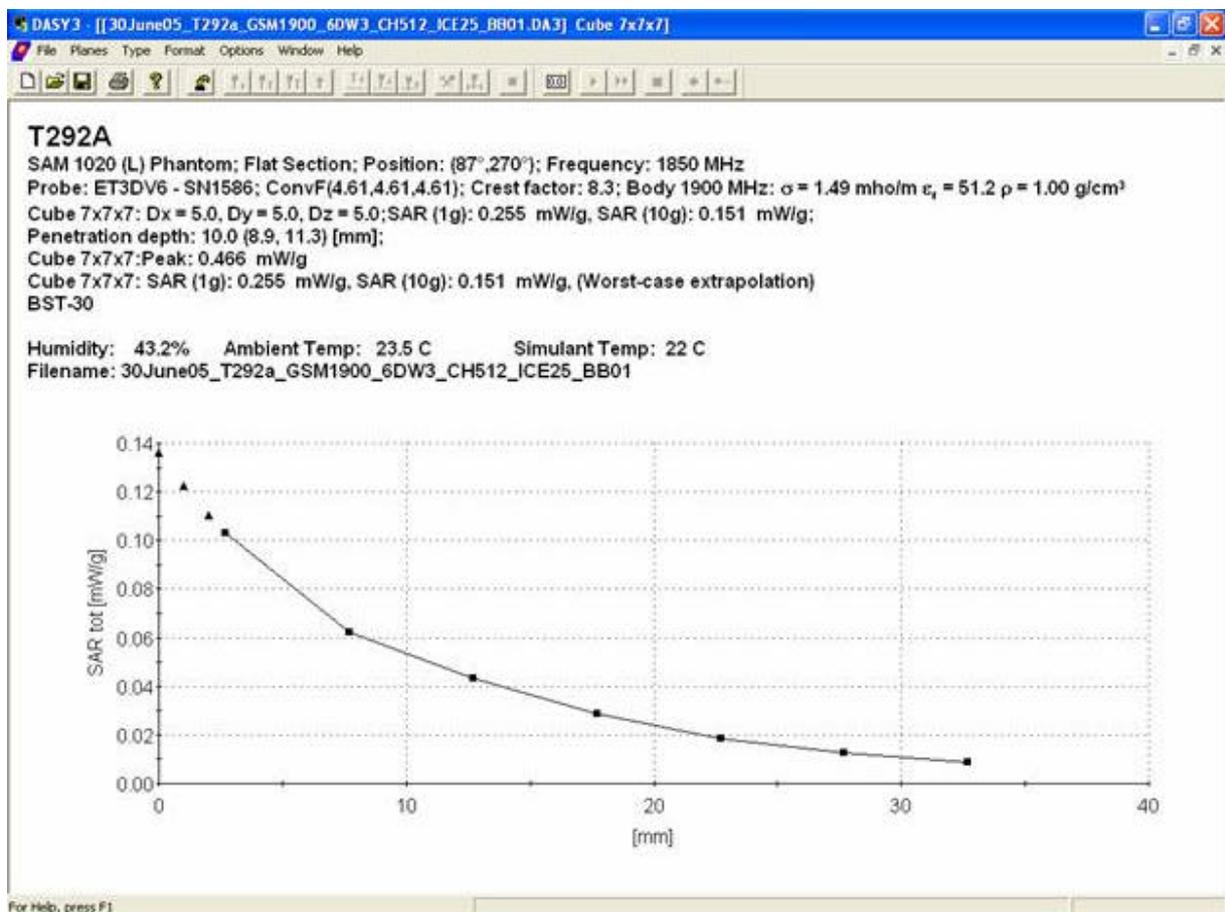
**Distribution of maximum SAR in 1900 GSM band. Measured with back of device facing the body using carry accessory ICE-25 and hands free accessory HPB-20. (Standard Battery, BST-30)**





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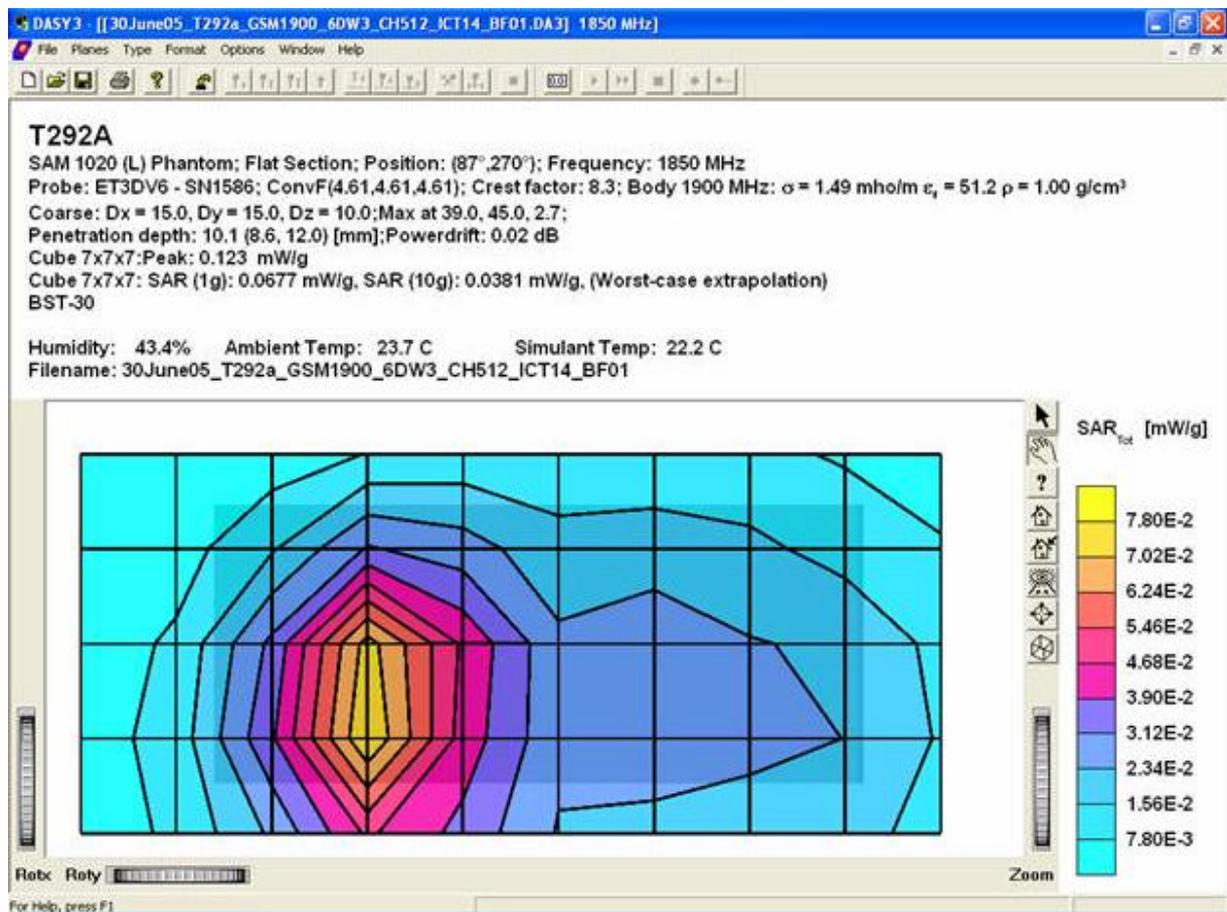
**SAR Extrapolation to the phantom inner surface. Measured for maximum SAR in 1900 GSM band, while back of the phone is against the body using carry accessory IEC-25 and hands free accessory HPB-20. (Standard Battery, BST-30)**





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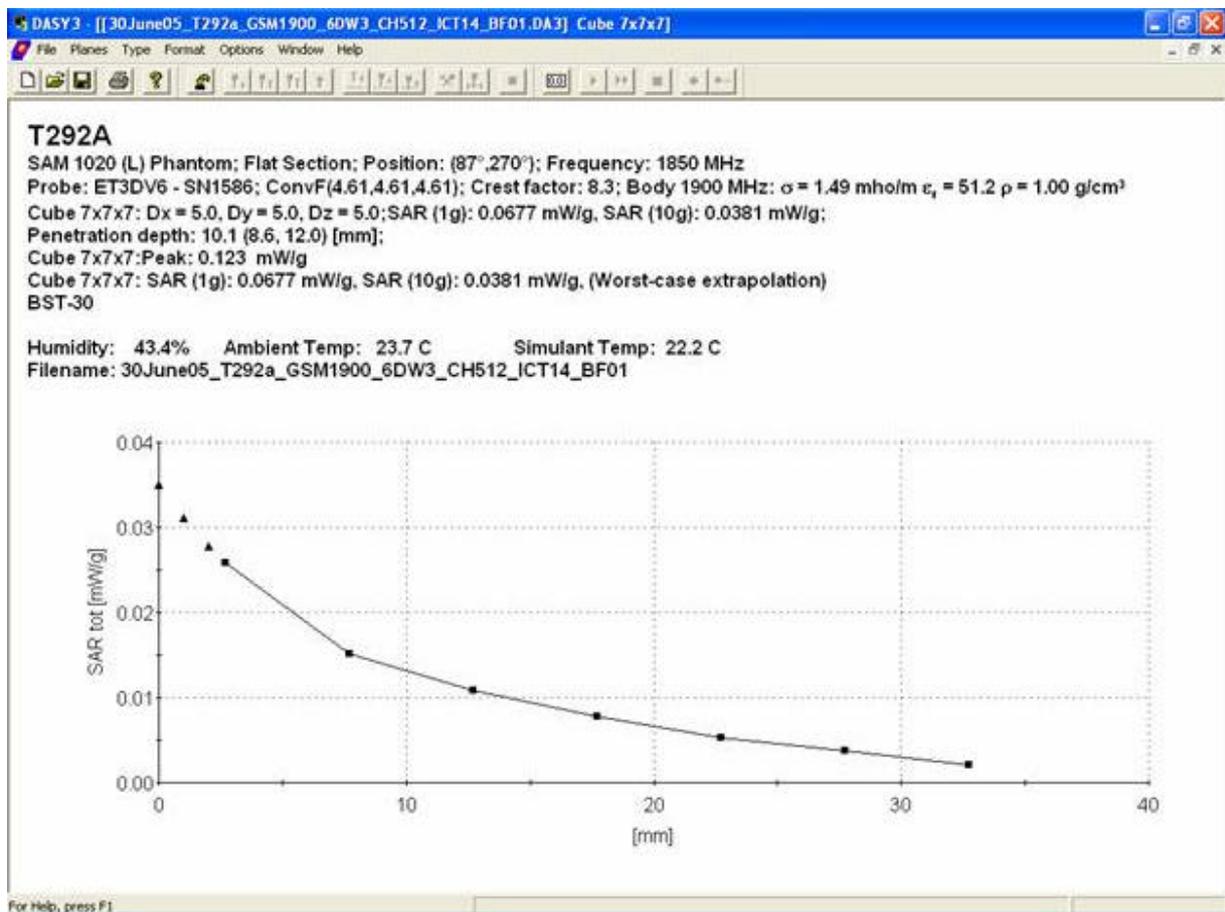
**Distribution of maximum SAR in 1900 GSM band. Measured with front of device facing the body using carry accessory ICT-14 and hands free accessory HPB-20. (Standard Battery, BST-30)**





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**SAR Extrapolation to the phantom inner surface. Measured for maximum SAR in 1900 GSM band, while front of the phone is against the body using carry accessory ICT-14 and hands free accessory HPB-20. (Standard Battery, BST-30)**

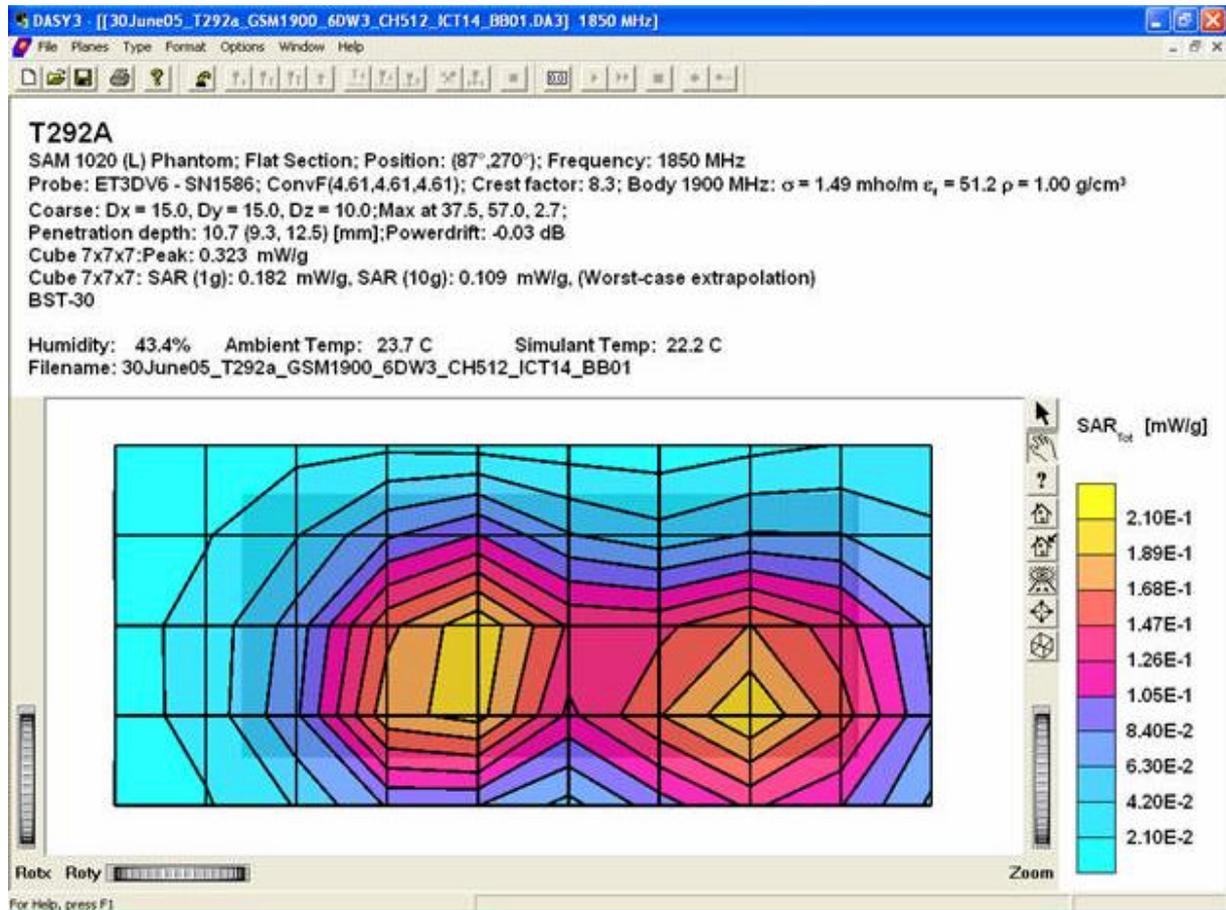




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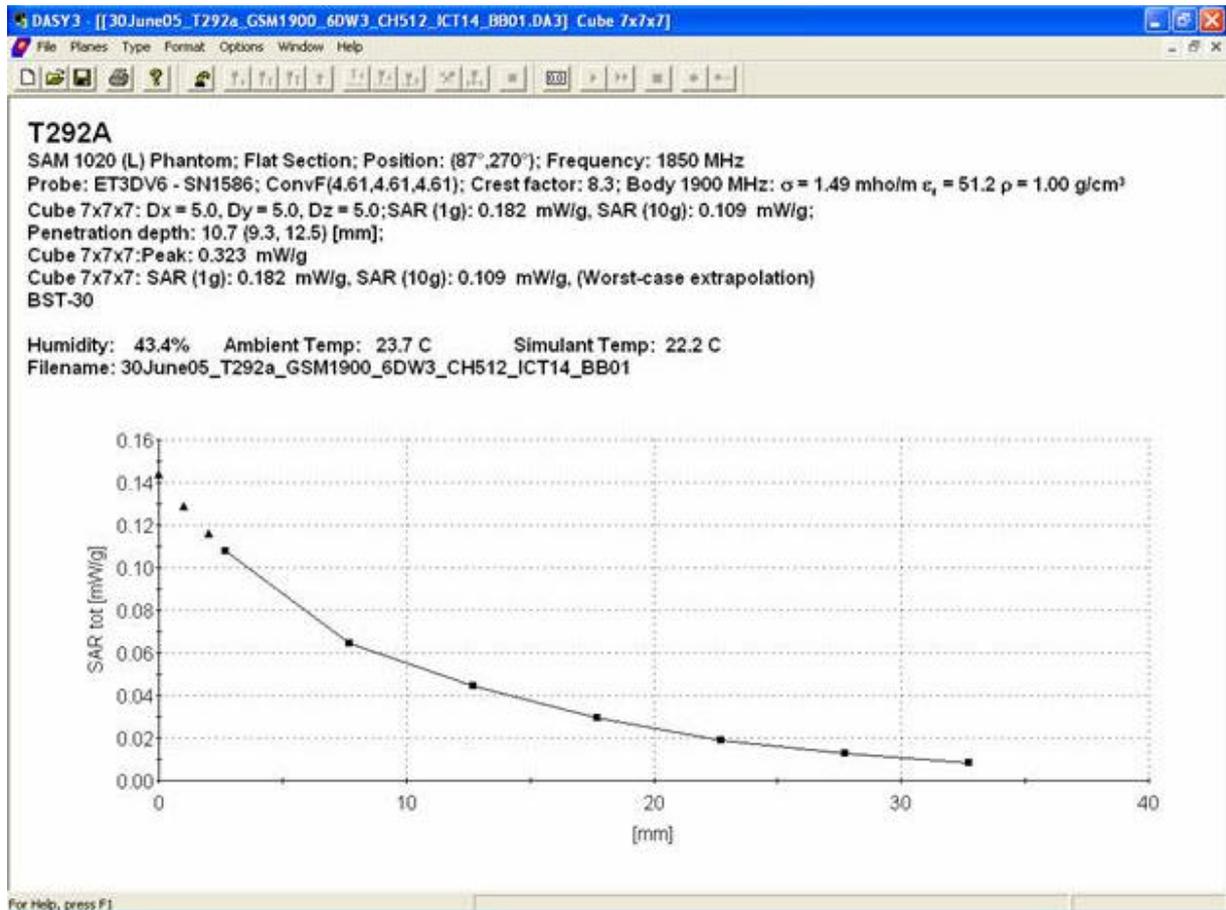
**Distribution of maximum SAR in 1900 GSM band. Measured with back of device facing the body using carry accessory ICT-14 and hands free accessory HPB-20. (Standard Battery, BST-30)**





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**SAR Extrapolation to the phantom inner surface. Measured for maximum SAR in 1900 GSM band, while back of the phone is against the body using carry accessory ICT-14 and hands free accessory HPB-20. (Standard Battery, BST-30)**

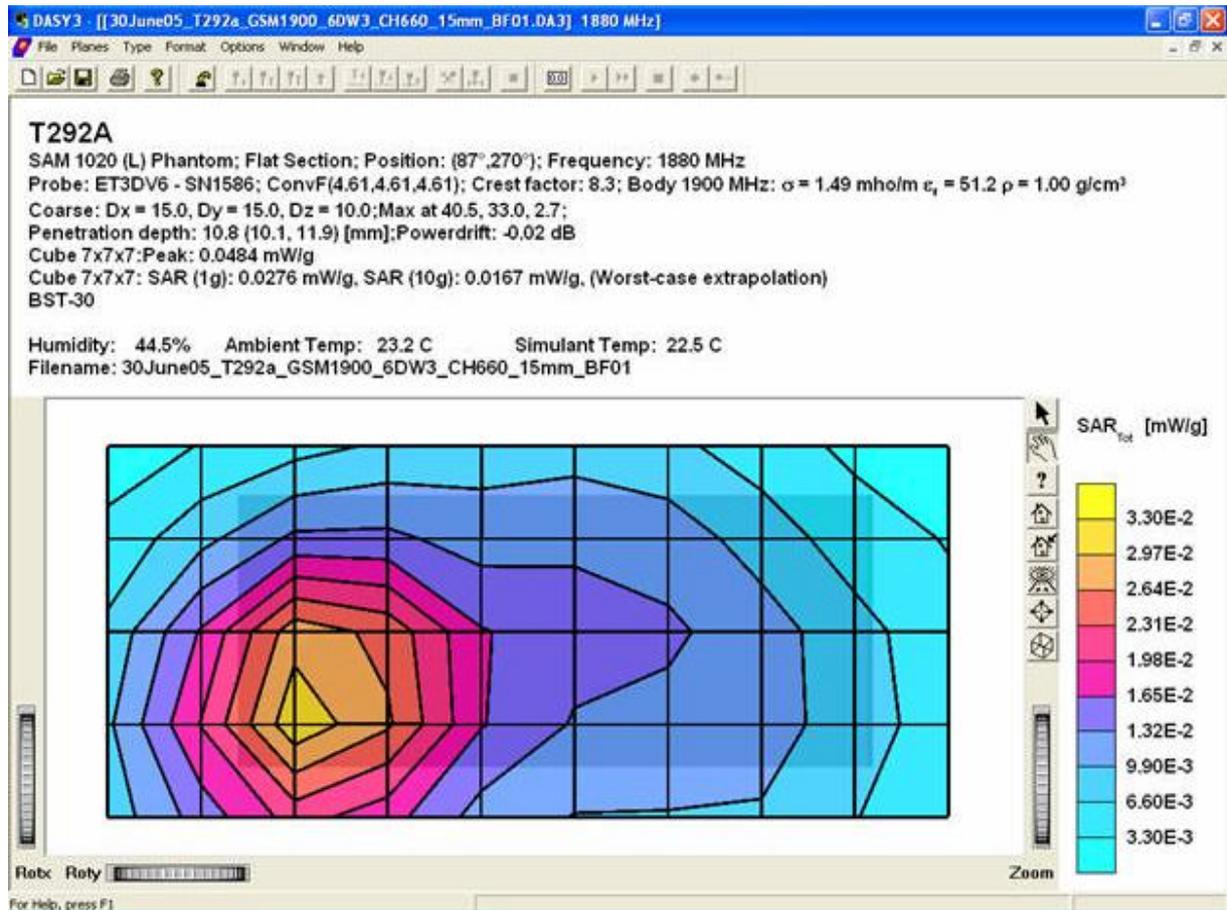




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Approved SEM/CV/PF/P Gerard Hayes	Checked	C	X:\SAR Chamber\FCC reports\T292A\Final Reports\FCCT292A.doc

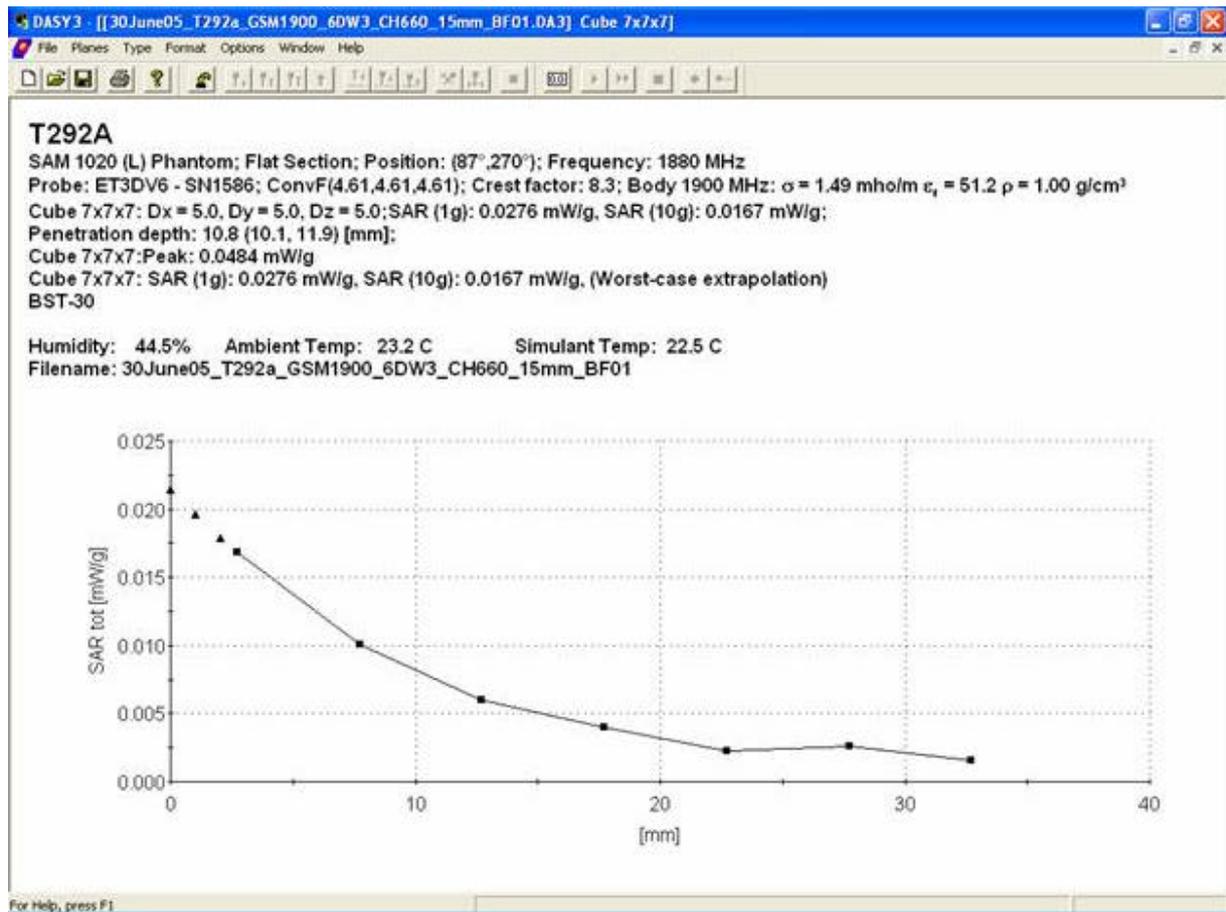
**Distribution of maximum SAR in 1900 GSM band. Measured with front of device facing the body using a 15 mm spacer and hands free accessory HPB-20. (Standard Battery, BST-30)**





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**SAR Extrapolation to the phantom inner surface. Measured for maximum SAR in 1900 GSM band, while front of the phone is against the body using a 15 mm spacer and hands free accessory HPB-20. (Standard Battery, BST-30)**

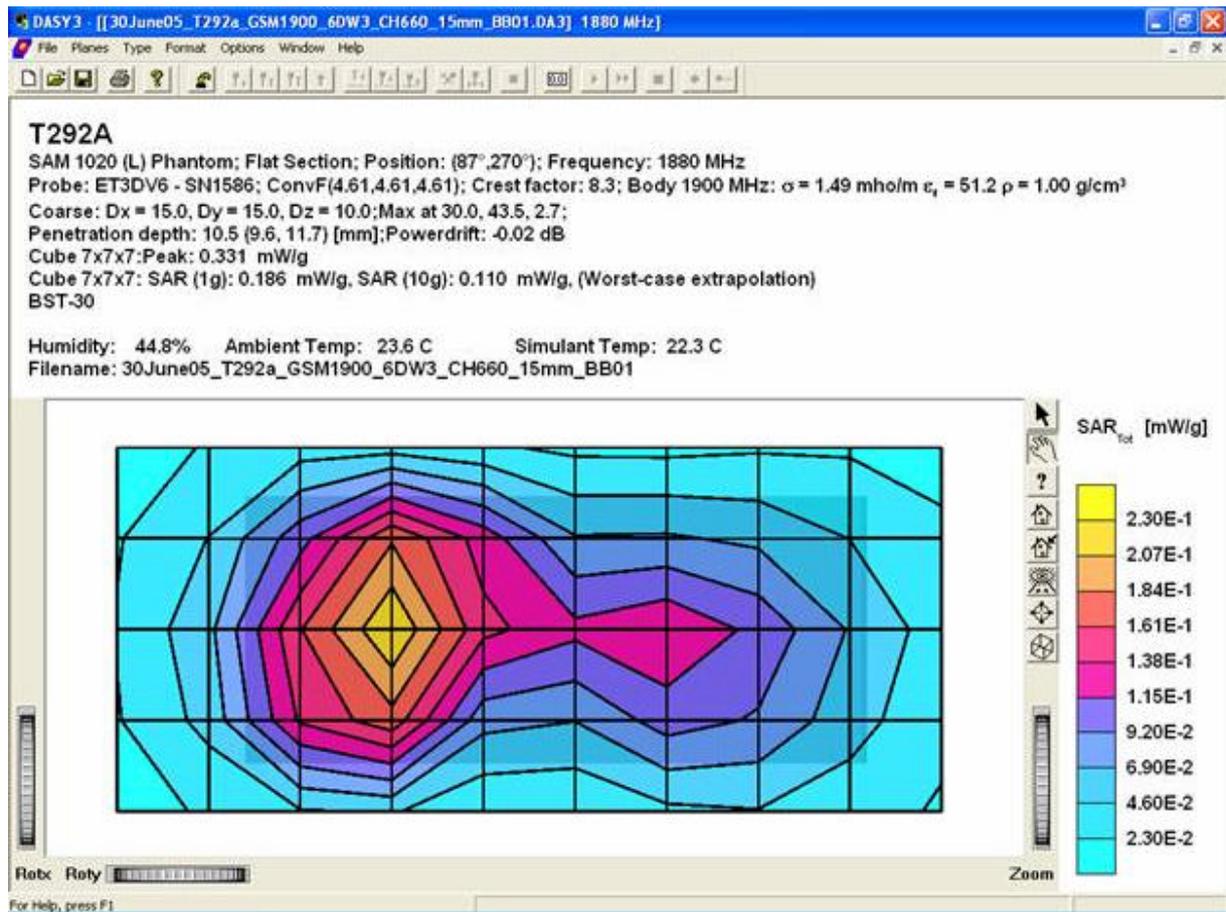




REPORT

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