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 Prepared (also subject responsible if other)
 No.

 SEM/CV/PF/P Gerard Hayes and Rodney Dixon
 REP 2005 008 W600i 02

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REPORT

## Exhibit 11: SAR Test Report of Portable Cellular Phone FCC ID: PY7AF052021 Model : W600i

Date of test: Date of Report:	August 29 - September 4, 2005 September 16, 2005
Laboratory:	SAR Testing Laboratory Sony Ericsson Mobile Communications, Inc. 7001 Development Drive, P.O. Box 13969, Research Triangle Park, NC, 27709, USA
Tested by:	Rodney G. Dixon Eng. Technician III, Product Verification Group
Test Responsible:	Gerard Hayes Merand James Hayes 16 SEPTEMBER 2005 Consulting Engineer, Antenna/RF Development Group
Accreditation:	This laboratory is accredited to ISO/IEC 17025-1999 to perform the following electromagnetic exposure tests:
	Specific Absorption Rate (SAR) Dielectric parameters RF power measurement
	On the following types of products: Wireless communications devices. A2LA certificate #1650-01
Statement of Compliance:	Sony Ericsson Mobile Communications, Inc declares under its sole responsibility that portable cellular telephone FCC ID PY7AF052021 model W600i 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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#### Introduction 1.

The Sony Ericsson SAR Laboratory has performed measurements of the maximum potential exposure to the user of portable cellular phone FCC ID PY7AF052021 model W600i. 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].

#### **Description of the Device Under Test** 2.

#### 2.1 Antenna description

Туре	Bent monopole			
Location	External plastic loop on top of phone			
	Width	18.8 mm		
Dimensions	Length	43.6 mm		
	Height	7.1 mm		

#### 2.2 **Device description**

FCC ID Number / Device Model	PY7AF052021 / W600i			
Serial number	BD3023GNBB BD3023HCY4			
Transmitting Frequency Rang(s)	824-849 MHz 1850-1910 M			
Mode(a) of Operation	GSM	GSM		
Mode(s) of Operation	GPRS/EGPRS	GPRS/EGPRS		
Modulation Mode(s)	TDMA	TDMA		

Transmitting Frequency Rang(s)	824-849 MHz		1850-1910 MHz	
GSM Mode: 1/8 Duty Cycle Target Value and Factory	<b>f</b> <sub>low</sub> 32.0 dBm +/- 0.2 dI		f <sub>low</sub>	30.0 dBm -/- 0.2 dB
Tolerance Window for Maximum	<b>f</b> <sub>mid</sub>	32.0 dBm	<b>f</b> <sub>mid</sub>	30.0 dBm
Output Power Setting		-/- 0.2 dB		-/- 0.2 dB
	$\mathbf{f}_{\mathrm{high}}$	32.0 dBm	<b>f</b> <sub>high</sub>	30.0 dBm
Calibration Frequency	, i i i i i i i i i i i i i i i i i i i	-/- 0.2 dB	-	-/- 0.2 dB
$(\mathbf{f}_{\text{low}}, \mathbf{f}_{\text{mid}}, \mathbf{f}_{\text{high}})$	քեր	ab	f	mid

Transmitting Frequency Rang(s)	824-849 MHz		1850-1910 MHz	
GPRS Mode: 2/8 Duty Cycle	$\mathbf{f}_{\mathrm{low}}$	32.0 dBm -/- 0.2 dB	$\mathbf{f}_{\mathrm{low}}$	30.0 dBm -/- 0.2 dB
Talget Value and Factory Tolerance Window for Maximum Output Power Setting	$\mathbf{f}_{\mathrm{mid}}$	32.0 dBm -/- 0.2 dB	f <sub>mid</sub>	30.0 dBm /- 0.2 dB
Calibration Frequency	$\mathbf{f}_{ ext{high}}$	32.0 dBm -/- 0.2 dB	$\mathbf{f}_{\mathrm{high}}$	30.0 dBm -/- 0.2 dB
$(\mathbf{f}_{\text{low}}, \mathbf{f}_{\text{mid}}, \mathbf{f}_{\text{high}})$	fh	igh	í	mid

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Transmitting Frequency Rang(s)	824-84	9 MHz	1850-1910 MHz		
EGPRS Mode: 2/8 Duty Cycle Target Value and Factory	f <sub>low</sub>	27 dBm -/- 1.0 dB	f <sub>low</sub>	26 dBm -/- 1.0 dB	
Tolerance Window for Maximum	<b>f</b> <sub>mid</sub>	27 dBm	<b>f</b> <sub>mid</sub>	26 dBm	
Output Power Setting		+/- 1.0 dB		-/- 1.0 dB	
	<b>f</b> <sub>high</sub>	27 dBm	<b>f</b> <sub>high</sub>	26 dBm	
Calibration Frequency	Ť	/- 1.0 dB	5	-/- 1.0 dB	
$(\mathbf{f}_{\mathrm{low}}, \mathbf{f}_{\mathrm{mid}}, \mathbf{f}_{\mathrm{high}})$	fn	nid	f	mid	

Production Unit or Identical Prototype (47 CFR §2908)	Identical Prototype
Device Category	Portable
RF Exposure Limits	General Population / Uncontrolled

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## **3.** Test Equipment Used

#### 3.1 Dosimetric System

The Sony Ericsson SAR Laboratory utilizes Dosimetric Assessment Systems (Dasy3<sup>TM</sup> v3.1d for body-worn measurements and Dasy4<sup>TM</sup> for adjacent to head measurements) manufactured by Schmid & Partner Engineering AG (SPEAG<sup>TM</sup>), of Zurich Switzerland. The overall RSS uncertainty of the measurement system is  $\pm 10.72\%$  (K=1) with an expanded uncertainty of  $\pm 21.45\%$  (K=2) for Dasy3<sup>TM</sup> v3.1d and  $\pm 9.43\%$  (K=1) with an expanded uncertainty of  $\pm 18.87\%$  (K=2) for Dasy4<sup>TM</sup>. 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.

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

### 3.2 Additional Equipment

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

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#### 4. Electrical parameters of the tissue simulating liquid

Prior to conducting SAR measurements, the relative permittivity,  $\varepsilon_r$ , 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  $\rho=1g/cm3$  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 the tests, the ambient temperature of the laboratory was in the range 22.2-24.1°C, the relative humidity was 45.4% - 53.9%, and the liquid depth above the ear reference points was more than 15.0 cm for all the cases. It is seen that the measured parameters are satisfactory for compliance testing.

			Dielectric Parameters					
f (MHz)	Tissue type	Limits / Measured	<b>e</b> ,	s (S/m)	Simulated Tissue Temp (°C)			
	Hood	Measured, 30-Aug-05	41.17	.895	22.5			
	пеац	<b>Recommended Limits</b>	41.50	0.90	20-25			
	Dody	Measured, 29-Aug-05	53.16	.969	22.7			
925	Douy	<b>Recommended Limits</b>	55.20	0.97	20-25			
035	Body	Measured, 04-Sept-05	54.9	.984	21.9			
		<b>Recommended Limits</b>	55.20	0.97	20-25			
	Hood	Measured, 31-Aug-05	40.29	.873	22.7			
	пеац	<b>Recommended Limits</b>	41.50	0.90	20-25			
	Head	Measured, 01-Sept-05	38.36	1.442	22.2			
	neau	<b>Recommended Limits</b>	40.00	1.40	20-25			
1000	Dody	Measured, 02-Sept-05	51.11	1.529	22.2			
1900	Douy	<b>Recommended Limits</b>	53.30	1.52	20-25			
	Hood	Measured, 03-Sept-05	38.47	1.453	22.3			
	пеац	Recommended Limits	40.00	1.40	20-25			

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

		800MHz		
Ingredient	800 MHz Head	Body	1900 MHz Head	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%		

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#### 5. System Accuracy Verification

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A system accuracy verification of the DASY3 was performed using the measurement equipment listed in Section 3.1. The daily system accuracy verification occurs within the flat section of the SAM phantom.

A SAR measurement was performed to see if the measured SAR was within +/-10% from the target SAR indicated on the dipole certification sheet. These tests were done at 835MHz and/or 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 22.1-22.9 °C, the relative humidity was in the range 41.8 – 50.7 % 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 0.000300 W/kg, which is below the recommended limit in [1].

f	Tissue		SAR	SAR (W/kg)		ectric neters	Tissue
(MHz)	Туре	Description	1g /	, 10g	e, s (S/m)		Temp (°C)
	Head	Measured. 30-Aug-05	8.8	5.8	41.17	.895	22.5
		Recommended Limits	9.50	6.20	41.50	0.90	20-25
	Body	Measured. 29-Aug-05	9.2	5.9	53.16	.969	22.7
835		Recommended Limits	9.90	6.46	55.20	0.97	20-25
655	Body	Measured. 04-Sept-05	9.6	6.2	54.9	.984	21.9
		Recommended Limits	9.90	6.46	55.20	0.97	20-25
	Head	Measured. 31-Aug-05	8.5	5.6	40.29	.873	22.7
		Recommended Limits	9.50	6.20	41.50	0.90	20-25
	Head	Measured. 01-Sept-05	42.3	22.3	38.36	1.442	22.2
		Recommended Limits	39.70	20.50	40.00	1.40	20-25
1900	Body	Measured. 02-Sept-05	43.3	22.4	51.11	1.529	22.2
1300		Recommended Limits	40.50	20.89	53.30	1.52	20-25
	Head	Measured. 03-Sept-05	41.4	21.7	38.47	1.453	22.3
		Recommended Limits	39.70	20.50	40.00	1.40	20-25

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#### 6. Test Results

For head measurements (with a 1/8 GSM duty cycle), the sample was operated using test software that allows the control of the transmitter. For body measurements (E-GPRS, 2/8 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 and/or 4.5 SAR measurement systems.

The Cellular Phone FCC ID PY7AF052021 has the following battery option: BKB 193 203 (BST-37) Standard Lithium Polymer Battery

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

#### 6.1 Head Adjacent Test Results

The SAR results shown in Tables 1 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 40.0 - 51.7 % and 21.6 - 23.6°C, respectively. The SAR measurements were performed using the SAM phantoms listed in section 3.1.

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

Summary of Maximum Extrapolated SAR Results : Head Adjacent								
Frequency	Extrapolated	SAR (W/kg)	Test Configuration					
	1 g	10 g						
800 GSM	.593	0.434	Right head, cheek/touch position, 849 MHz BST-37 battery, with Bluetooth on, open					
1900 GSM	1.26	0.719	Left head, cheek/touch position, 1910 MHz BST-37 battery, closed					

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		Conducted	]	FCC ID PY	7AF052021	with Star	idard Batte	ery BST-37	1
	Channel/ frequency	(dBm)		Left Head	(Cheek / '	Touch Posi	ition) Close	ed position	
		GSM 1:8						Ambient	
f (MHz)		Duty Cycle	Measured	(W/kg)		Extrapolat	ed (W/kg)	Temp	Simulate
			1g /	10g	Drift (dB)	1g /	10g	(°C)	Temp (°C)
800 GSM	128 / 824	31.9	0.556	0.400	-0.11	0.556	0.400		
800 GSM	189 / 837	32.0	0.508	0.365	0.01	0.508	0.365	23.6	23.1
	251 / 849	32.2	0.584	0.419	0.02	0.584	0.419		
1000 CSM	512 / 1850	29.8	0.752	0.441	0.20	0.752	0.441		
1900 GSM	660/1880	30.2	0.874	0.508	-0.05	0.874	0.508	22.5	22.2
	810/1910	30.0	1.030	0.588	-0.08	1.030	0.588		
	Channel/	Conducted Output Power (dBm)	FCC ID PY7AF052021 with Standard Battery BST-37						,
	frequency			Lett He	au (13.		n) Closed p		
$f(MH_{7})$		GSM 1:8	Maaaaaad	$(\mathbf{W}/\mathbf{I}_{2},\mathbf{r})$		Entres also	$= \frac{1}{2} \left( \frac{W}{1-\tau} \right)$	Ambient	Circulate
I (IVIIIZ)		Duty Cycle		1 (w/kg) 10σ	Drift (dB)	Extraporat	10σ	(°C)	Temp (°C)
	128 / 824	31.9	0.392	0 272	0.03	0.392	0 272	( C)	Temp (C)
800 GSM	189 / 837	32.0	0.359	0.248	0.01	0.359	0.248	22.8	22.5
	251 / 849	32.2	0.417	0.288	-0.01	0.417	0.288		
1000 0014	512 / 1850	29.8	0.898	0.520	0.02	0.898	0.520		
1900 GSM	660/1880	30.2	1.090	0.628	0.01	1.090	0.628	22.3	21.1
								1	
	810/1910	30.0	1.260	0.719	-0.08	1.260	0.719		

Table 1: SAR measurement results for the portable cellular telephone FCC ID PY7AF052021 model W600i at maximum output power with Standard Battery BST-37. Measured against the left head in the closed position.

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		Conducted Output Power	l	FCC ID PY	7AF052021	with Star	ndard Batte	ery BST-37	1	
	Channel/ frequency	(dBm)	I	Right Head	(Cheek / Touch Position) Closed position					
		GSM 1:8						Ambient		
F (MHz)		Duty Cycle	Measured	(W/kg)		Extrapolat	ed (W/kg)	Temp	Simulate	
			1g /	10g	Drift (dB)	1g /	10g	(°C)	Temp (°C)	
	128 / 824	31.9	0.532	0.388	0.00	0.532	0.388			
800 GSM	189 / 837	32.0	0.506	0.367	0.07	0.506	0.367	23.5	22.9	
	251 / 849	32.2	0.591	0.430	-0.02	0.591	0.430			
Bluetooth on	251 / 849	32.2	0.590	0.429	0.01	0.590	0.429	22.9	23.2	
	512 / 1850	29.8	0.696	0.420	0.04	0.696	0.420			
1000 CSM	660/1880	30.2	0.824	0.495	-0.02	0.824	0.495	22.5	20.7	
1900 05101	810/1910	30.0	0.970	0.578	-0.06	0.970	0.578			
		Conducted	l	FCC ID PY	7AF052021	with Star	ndard Batte	ery BST-37	1	
	Channel/ frequency	(dBm)		Right H	ead (15°	Tilt Positio	on) Closed	position		
	1 2	GSM 1:8						Ambient		
f (MHz)		Duty Cycle	Measured	(W/kg)		Extrapola	ted (W/kg)	Temp	Simulate	
			1g /	10g	Drift (dB)	1g /	10g	(°C)	Temp (°C)	
800 GSM	128 / 824	31.9	0.354	0.251	0.02	0.354	0.251			
800 GSM	189 / 837	32.0	0.330	0.234	-0.02	0.330	0.234	23.4	22.7	
	251 / 849	32.2	0.391	0.277	0.01	0.391	0.277			
1000 CSM	512 / 1850	29.8	0.882	0.508	0.00	0.882	0.508			
1900 0510	660/1880	30.2	1.040	0.595	0.01	1.040	0.595	22.3	20.8	
	810/1910	30.0	1.220	0.693	-0.07	1.220	0.693			

Table 2: SAR measurement results for the portable cellular telephone FCC ID PY7AF052021 model W600i at maximum output power with Standard Battery BST-37. Measured against the right head in the closed position.

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		Conducted	]	FCC ID PY	7AF052021	with Star	ndard Batte	ery BST-37	7
	Channel/ frequency	(dBm)		Left Head	(Cheek	/ Touch Pos	sition) Ope	n position	
F (MHz)	1 5	GSM 1:8 Duty Cycle	Measured	l (W/kg) 10g	Drift (dB)	Extrapolat	ted (W/kg) 10g	Ambient Temp (°C)	Simulate Temp (°C)
	128 / 824	31.9	0.566	0.409	-0.11	0.566	0.409	( -)	
800 GSM	189 / 837	32.0	0.545	0.392	-0.02	0.545	0.392	22.8	22.7
	251 / 849	32.2	0.580	0.420	0.03	0.580	0.420		
1000 001	512 / 1850	29.8	0.360	0.232	0.06	0.360	0.232		
1900 GSM	660/1880	30.2	0.367	0.238	-0.02	0.367	0.238	22.2	22.3
	810/1910	30.0	0.368	0.237	0.12	0.368	0.237		
			FCC ID PY7AF052021 with Standard Batter						
		Conducted	]	FCC ID PY	7AF052021	with Star	ndard Batto	ery BST-37	7
	Channel/ frequency	Conducted Output Power (dBm)	1	FCC ID PY	7 <u>AF052021</u> ead (15°	with Star	ndard Batto on) Open po	ery BST-37 osition	7
	Channel/ frequency	Conducted Output Power (dBm) GSM 1:8	]	FCC ID PY Left H	7AF052021 ead (15°	with Star Tilt Positio	ndard Batto on) Open po	ery BST-37 osition Ambient	7
f (MHz)	Channel/ frequency	Conducted Output Power (dBm) GSM 1:8 Duty Cycle	Measured	FCC ID PY Left H	7 <u>AF052021</u> ead (15°	with Star Tilt Positio	ndard Batte on) Open per red (W/kg)	ery BST-37 osition Ambient Temp	Simulate
f (MHz)	Channel/ frequency	Conducted Output Power (dBm) GSM 1:8 Duty Cycle	Measured 1g /	FCC ID PY Left H	7AF052021 ead (15° Drift (dB)	with Star Tilt Positio Extrapolat 1g /	ndard Batte on) Open per red (W/kg) 10g	ery BST-37 osition Ambient Temp (°C)	Simulate Temp (°C)
f (MHz)	Channel/ frequency 128 / 824	Conducted Output Power (dBm) GSM 1:8 Duty Cycle <b>31.9</b>	Measured 1g / <b>0.282</b>	FCC ID PY Left H (W/kg) 10g 0.208	7AF052021 ead (15° Drift (dB) -0.01	with Star Tilt Positic Extrapolat 1g / 0.282	ndard Batto on) Open po red (W/kg) 10g 0.208	ery BST-37 osition Ambient Temp (°C)	Simulate Temp (°C)
f (MHz) 800 GSM	Channel/ frequency 128 / 824 189 / 837	Conducted Output Power (dBm) GSM 1:8 Duty Cycle <b>31.9</b> 32.0	Measured 1g / <b>0.282</b> 0.259	FCC ID PY Left H (W/kg) 10g 0.208 0.190	7AF052021 ead (15° Drift (dB) -0.01 0.02	with Star Tilt Positic Extrapolat 1g / 0.282 0.259	ndard Batte on) Open po red (W/kg) 10g 0.208 0.190	ery BST-37 osition Ambient Temp (°C) 23.1	Simulate Temp (°C) 22.8
f (MHz) 800 GSM	Channel/ frequency 128 / 824 189 / 837 251 / 849	Conducted Output Power (dBm) GSM 1:8 Duty Cycle <b>31.9</b> 32.0 32.2	Measured 1g / <b>0.282</b> 0.259 0.259	FCC ID PY Left H (W/kg) 10g 0.208 0.190 0.190	<b>7AF052021</b> ead (15° Drift (dB) -0.01 0.02 -0.02	with Star Tilt Positic Extrapolat 1g / 0.282 0.259 0.259	<b>ndard Batte</b> <b>on) Open pe</b> ted (W/kg) 10g <b>0.208</b> 0.190 0.190	ery BST-37 osition Ambient Temp (°C) 23.1	Simulate Temp (°C) 22.8
f (MHz) 800 GSM	Channel/ frequency 128 / 824 189 / 837 251 / 849 512 / 1850	Conducted Output Power (dBm) GSM 1:8 Duty Cycle 31.9 32.0 32.2 29.8	Measured 1g / 0.282 0.259 0.259 0.259	FCC ID PY Left H (W/kg) 10g 0.208 0.190 0.190 0.190 0.161	<b>7AF052021</b> ead (15° Drift (dB) -0.01 0.02 -0.02 0.04	with Star Tilt Positio Extrapolat 1g / 0.282 0.259 0.259 0.259 0.267	<b>ndard Batte</b> <b>on) Open pe</b> ted (W/kg) 10g <b>0.208</b> 0.190 0.190 <b>0.161</b>	ery BST-37 osition Ambient Temp (°C) 23.1	Simulate Temp (°C) 22.8
f (MHz) 800 GSM 1900 GSM	Channel/ frequency 128 / 824 189 / 837 251 / 849 512 / 1850 660/1880	Conducted Output Power (dBm) GSM 1:8 Duty Cycle <b>31.9</b> 32.0 32.2 <b>29.8</b> 30.2	Measured 1g / 0.282 0.259 0.259 0.259 0.267 0.240	ECC ID PY Left H (W/kg) 10g 0.208 0.190 0.190 0.190 0.161 0.145	Prift (dB)           -0.01           0.02           -0.02           0.04	with Star Tilt Positio Extrapolat 1g / 0.282 0.259 0.259 0.259 0.267 0.240	<b>ndard Batte</b> <b>on) Open pe</b> red (W/kg) 10g <b>0.208</b> 0.190 0.190 <b>0.161</b> 0.145	ery BST-37 osition Ambient Temp (°C) 23.1 21.8	Simulate Temp (°C) 22.8 21.4

 
 Table 3: SAR measurement results for the portable cellular telephone FCC ID PY7AF052021 model W600i at
 maximum output power with Standard Battery BST-37. Measured against the left head in the open position.

FCC ID: **PY7AF052021** 

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		Conducted Output Power	]	FCC ID PY	7AF052021	with Star	ndard Batto	ery BST-37	,
	Channel/ frequency	(dBm)		Right Head	l (Cheek	/ Touch Po	osition) Op	en position	
F (MHz)		GSM 1:8	Maggurad	(W/kg)		Extrapolat	ed (W/kg)	Ambient	Simulate
1 (1/112)		Duty Cycle	lyleasuree 1g /	10g	Drift (dB)	lxtrapolat 1g /	10g	(°C)	Temp (°C)
	128 / 824	31.9	0.592	0.437	-0.12	0.592	0.437		1 . /
800 GSM	189 / 837	32.0	0.568	0.419	0.04	0.568	0.419	23.4	23.1
	251 / 849	32.2	0.59	0.436	-0.06	0.59	0.436		
Bluetooth on	251 / 849	32.18	0.593	0.434	-0.07	0.593	0.434	23.6	23.3
	512 / 1850	29.8	0.506	0.312	0.04	0.506	0.312		
1900 GSM	660/1880	30.2	0.524	0.322	-0.04	0.524	0.322	22.2	20.7
	810/1910	30.0	0.474	0.289	-0.02	0.474	0.289		
Bluetooth On	660/1880	30.2	0.447	0.280	-0.02	0.447	0.280	21.6	20.7
		Conducted		FCC ID PY	74F052021	with Star	dard Ratte	erv BST-37	,
	Channel/ frequency	Output Power (dBm)		Right H	lead (15°	Tilt Positi	on) Open p	osition	
	1 5	GSM 1:8						Ambient	
f (MHz)		Duty Cycle	Measured	l (W/kg)		Extrapolat	ed (W/kg)	Temp	Simulate
			1g /	10g	Drift (dB)	1g /	10g	(°C)	Temp (°C)
800 GSM	128 / 824	31.9	0.311	0.227	0.01	0.311	0.227		
	189 / 837	32.0	0.294	0.214	0.02	0.294	0.214	23.5	23
	251 / 849	32.2	0.289	0.210	0.01	0.289	0.210		
1900 GSM	512 / 1850	29.8	0.216	0.136	0.01	0.216	0.136		
	660/1880	30.2	0.182	0.114	-0.05	0.182	0.114	21.6	21
	810/1910	30.0	0.190	0.118	-0.03	0.190	0.118		

Table 4: SAR measurement results for the portable cellular telephone FCC ID PY7AF052021 model W600i at maximum output power with Standard Battery BST-37. Measured against the right head in the open position.

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### 6.2 Body-Worn Test Results

The SAR results shown in Tables 5 and 6 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 40.7 - 50.1 % and 21.9-24.1°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:

-15 mm spacer -ICE30 body worn case

A full data set output of the test conditions with the highest SAR values from the DASY<sup>TM</sup> 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 1 g	SAR (W/kg) 10 g	Test Configuration							
800 GSM	0.780	0.537	ICE30 Carry Accessory, back of phone facing body, 849 MHz, 2:8 Duty Cycle, BST-37 battery							
1900 GSM	0.629	0.370	15mm SPACER Carry Accessory, back of phone facing body, 1910MHz, 2:8 Duty Cycle BST-37 battery, Bluetooth on							

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			Condu cted	FC	C ID PY	7AF05202	1 with	Standaro	l Battery B	ST-37		
	Operating	Channel/	Output	Body W	orn	Carr	y Accessory: 15mm SPACER					
f (MHz)	Condition	frequency	Power	Back of phone				ody				
		1 5	(dBm)	Meas	ured		Extra	polated	Ambient	Simulate		
				(W/I	kg)	Drift	(W	/kg)	Temp	Temp		
				1g / 10g		(dB)	1g .	/ 10g	(°C)	(°C)		
Back of phone facing body												
200 CSM	2.9	128 / 824	31.9	0.753	0.520	0.04	0.753	0.520				
800 GSM	2.0 Duty Cycle	189 / 837	32.0	0.638	0.439	0.02	0.638	0.439	22.2	21.9		
	Duty Cycle	251 / 849	32.2	0.671	0.459	0.02	0.671	0.459				
	2:8	512 / 1850	29.8	0.433	0.259	-0.01	0.433	0.259				
1000	Duty Cycle	660/1880	30.2	0.508	0.300	0.02	0.508	0.300	22.1	21.5		
1900 GSM		810/1910	30.0	0.580	0.340	-0.03	0.580	0.340				
OSIVI	Bluetooth On	810 / 1910	30.0	0.629	0.370	-0.01	0.629	0.370				
	1:8 Duty								22.3	21.3		
	Cycle	810 / 1910	30.0	0.301	0.178	-0.06	0.301	0.178				
			Fron	t of phone	e facing l	oody						
800 CSM	2.9	128 / 824	31.9	0.443	0.316	0.07	0.443	0.316				
800 GSM	2.0 Duty Cycle	189 / 837	32.0	0.353	0.253	0.00	0.353	0.253	22.2	21.9		
	Duty Cycle	251 / 849	32.2	0.366	0.259	-0.09	0.366	0.259				
1900	2:8	512 / 1850	29.8	0.373	0.241	-0.03	0.373	0.241				
GSM	Duty Cycle	660/1880	30.2	0.381	0.232	0.01	0.381	0.232	22.1	22.2		
		810/1910	30.0	0.416	0.253	-0.04	0.416	0.253				

Table 5: SAR measurement results for the portable cellular telephone FCC ID PY7AF052021 model W600i at maximum output power with Standard Battery BST-37. Measured against the body with a 15mm Spacer.

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			Condu cted	FC	C ID PY	7AF05202	1 with	Standard	d Battery I	BST-37		
	Operating	Channel/	Output	Body W	orn	Carr	y Access	ory: ICI	E30 Carry	30 Carry Case		
f (MHz)	Condition	frequency	Power	Power Back of p			one facing body					
		1.1.1.5	(dBm)	Meas	ured		Extra	polated	Ambient			
				(W/I	kg)	Drift	(W	/kg)	Temp	Simulate		
				1g / 10g		(dB)	1g /	/ 10g	(°C)	Temp (°C)		
Back of phone facing body												
	2.8	128 / 824	31.9	0.737	0.514	0.00	0.737	0.514				
	2.0 Duty Cycle	189 / 837	32.0	0.665	0.462	-0.01	0.665	0.462	22.6	21.7		
800 GSM	Duty Cycle	251 / 849	32.2	0.780	0.537	-0.01	0.780	0.537				
	Bluetooth On	251 / 849	32.2	0.766	0.528	0.07	0.766	0.528				
	1:8 Duty								22.7	21.9		
	Cycle	251 / 849	32.2	0.357	0.250	0.01	0.357	0.250				
1900	2:8	512 / 1850	29.8	0.403	0.249	0.00	0.403	0.249				
GSM	Duty Cycle	660/1880	30.2	0.409	0.251	-0.03	0.409	0.251	22.3	21.1		
		810/1910	30.0	0.509	0.311	-0.07	0.509	0.311				
			Fron	t of phone	e facing b	oody						
800 GSM	2.9	128 / 824	31.9	0.468	0.335	0.00	0.468	0.335				
800 05101	2.0 Duty Cycle	189 / 837	32.0	0.394	0.280	0.08	0.394	0.280	22.8	21.8		
	Duty Cycle	251 / 849	32.2	0.433	0.308	0.01	0.433	0.308				
1900	2:8	512 / 1850	29.8	0.359	0.234	-0.04	0.359	0.234				
GSM	Duty Cycle	660/1880	30.2	0.369	0.228	-0.04	0.369	0.228	22.3	21.2		
		810/1910	30.0	0.436	0.267	-0.10	0.436	0.267				

 Table 6: SAR measurement results for the portable cellular telephone FCC ID PY7AF052021 model W600i at maximum output power with Standard Battery BST-37. Measured against the body with carry accessory ICE30.

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## References

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

 

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## Appendix 1

## SAR distribution comparison for the system accuracy verification

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#### 835 MHz SAR Distribution of Validation Dipole Antenna

#### System Performance Check on August 30, 2005 (Using head tissue).

#### Validation\_835Head\_438\_1251\_30Aug05\_T01

File Name: Validation 835Head 438 1251 30Aug05 T01.da4

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

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

Medium parameters used: f = 835 MHz; s = 0.896 mho/m;  $e_r = 41.2$ ; ? = 1000 kg/m<sup>3</sup>

Measurement Standard: DASY4 (High Precision Assessment)

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

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

Maximum value of SAR (interpolated) = 0.959 mW/g

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

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

Reference Value = 33.8 V/m; Power Drift = 0.013 dB

Peak SAR (extrapolated) = 1.35 W/kg

#### SAR(1 g) = 0.902 mW/g; SAR(10 g) = 0.588 mW/g

Maximum value of SAR (measured) = 0.973 mW/g

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

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

Reference Value = 33.8 V/m; Power Drift = 0.013 dB

Peak SAR (extrapolated) = 1.32 W/kg

#### SAR(1 g) = 0.885 mW/g; SAR(10 g) = 0.578 mW/g

Maximum value of SAR (measured) = 0.948 mW/g

Procedure Notes: Pin: before 101.1 mW / after 101.2 mW

Humidity: 46.5% Ambient Temp: 22.8 C Simulant Temp: 22.5 C



 $0 \, dB = 0.948 \, mW/g$ 

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#### 835 MHz SAR Distribution of Validation Dipole Antenna

#### System Performance Check on August 31, 2005 (Using head tissue).

#### Validation\_835Head\_438\_1251\_31Aug05\_T01

File Name: Validation 835Head 438 1251 31Aug05 T01.da4

Phantom: SAM with CRP (Low Band Head)Phantom section: Flat Section Probe: ET3DV6 - SN1586ConvF(6.58, 6.58, 6.58)Duty Cycle: 1:1Frequency: 835 MHz Medium parameters used: f = 835 MHz; s = 0.873 mho/m;  $e_r = 40.3$ ;  $? = 1000 \text{ kg/m}^3$ Measurement Standard: DASY4 (High Precision Assessment) Dipole at 10 mm/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.934 mW/gDipole at 10 mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 33.8 V/m; Power Drift = 0.01 dBPeak SAR (extrapolated) = 1.28 W/kg SAR(1 g) = 0.868 mW/g; SAR(10 g) = 0.568 mW/gMaximum value of SAR (measured) = 0.936 mW/gDipole at 10 mm/Zoom Scan 2 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 33.8 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 1.27 W/kg

#### SAR(1 g) = 0.856 mW/g; SAR(10 g) = 0.562 mW/g

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

Procedure Notes: Pin: before 101.3mW / after 101.2mW

Humidity: 45.1% Amb ient Temp: 22.8 C Simulant Temp: 22.7 C



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## 835 MHz SAR Distribution of Validation Dipole Antenna

System Performance Check on August 29, 2005 (Using body tissue).

BASY3 - [[Validation_835Body_438_1031_29Aug05_T01.DA3] 835 MHz]	_ 8 ×
🔗 File Planes Type Format Options Window Help	_ B ×
$\begin{array}{l} \textbf{Dipole} \\ \textbf{SAM 1031 (R) Phantom; Flat Section; Position: (90°,90°); Frequency: 835 MHz} \\ \textbf{Probe: ET3DV6 - SN1586; ConvF(6.51,6.51); Crest factor: 1.0; Body 835 MHz: \sigma = 0.97 mho/m \varepsilon_r = 53.2 \rho = 1.00 Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0; Max at 40.0, 42.0, 4.0; Penetration depth: 12.3 (11.0, 14.0) [mm]; Powerdrift: 0.03 dB Cubes (2): Peak: 1.46 mW/g \pm 0.11 dB Cubes (2): SAR (1g): 0.927 mW/g \pm 0.11 dB, SAR (10g): 0.597 mW/g \pm 0.11 dB, (Worst-case extrapolation) Pin: before 101.2mW after 101.1mW 3.4mm surface detect/teflon caps on dipole Humidity: 42.8% Ambient Temp: 22.9 C Simulant Temp: 22.7 C Filename: Validation_836Body_438_1031_29Aug05_T01 \\ \end{array}$	g/cm³
	SAR <sub>Tot</sub> [mW/g] 9.76E-1 8.78E-1 7.81E-1 6.83E-1 5.86E-1 4.88E-1 3.90E-1 2.93E-1 1.95E-1 9.76E-2
For Help, press F1	

FCC ID: PY7AF052021

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## 835 MHz SAR Distribution of Validation Dipole Antenna

System Performance Check on September 4, 2005 (Using body tissue).

🔹 DASY3 - [[Validation_835Body_438_1031_04Sept05_T01.DA3] 835 MHz]	_ B ×
S File Planes Type Format Options Window Help	_ 8 ×
$\begin{array}{l} \textbf{Dipole} \\ \textbf{SAM 1031 (R) Phantom; Flat Section; Position: (90°,90°); Frequency: 835 MHz} \\ \textbf{Probe: ET3DV6 - SN1586; ConvF(6.51,6.51,6.51); Crest factor: 1.0; Body 835 MHz: \sigma = 0.98 mho/m \varepsilon_r = 54.9 \rho = 1.00 Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0; Max at 40.0, 42.0, 4.0; Penetration depth: 12.4 (11.1, 14.1) [mm]; Powerdrift: -0.00 dB Cubes (2): Peak: 1.51 mW/g ± 0.06 dB Cubes (2): SAR (1g): 0.963 mW/g ± 0.06 dB, SAR (10g): 0.620 mW/g ± 0.05 dB, (Worst-case extrapolation) Pin: before 100.3mW after 100.2 mW 3.4mm surface detect/teflon caps on dipole Humidity: 42.8% Ambient Temp: 22.2 C Simulant Temp: 21.9 C Filename: Validation_835Body_438_1031_04Sept05_T01 \\ \end{array}$	g/cm³
	SAR <sub>Tot</sub> [mW/g]
For Help press F1	

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#### 1900 MHz SAR Distribution of Validation Dipole Antenna

## System Performance Check on September 1, 2005 (Using head tissue).

#### Validation\_1900Head\_536\_1335\_01Sept05\_T01

File Name: Validation 1900Head 536 1335 01Sept05 T01.da4

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

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

Medium parameters used: f = 1900 MHz; s = 1.44 mho/m;  $e_r = 38.4$ ;  $? = 1000 \text{ kg/m}^3$ 

Measurement Standard: DASY4 (High Precision Assessment)

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

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

Maximum value of SAR (interpolated) = 5.39 mW/g

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

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

Reference Value = 60.0 V/m; Power Drift = 0.040 dB

Peak SAR (extrapolated) = 7.52 W/kg

## SAR(1 g) = 4.26 mW/g; SAR(10 g) = 2.24 mW/g

Maximum value of SAR (measured) = 4.84 mW/g

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

Reference Value = 60.0 V/m; Power Drift = 0.040 dB

Peak SAR (extrapolated) = 7.40 W/kg

#### SAR(1 g) = 4.22 mW/g; SAR(10 g) = 2.22 mW/g Maximum value of SAR (measured) = 4.76 mW/g Procedure Notes: Pin: before 100.2 mW / after 100.1 mW





Exhibit 11

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REPORT

1900 MHz SAR Distribution of Validation Dipole Antenna

#### System Performance Check on September 3, 2005 (Using head tissue).

#### Validation\_1900Head\_536\_1335\_03Sept05\_T01

File Name: Validation 1900Head 536 1335 03Sept05 T01.da4

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

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

Medium parameters used: f = 1900 MHz; s = 1.45 mho/m;  $e_r = 38.5$ ;  $? = 1000 \text{ kg/m}^3$ 

Measurement Standard: DASY4 (High Precision Assessment)

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

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

Maximum value of SAR (interpolated) = 5.16 mW/g

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

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

Reference Value = 57.5 V/m; Power Drift = 0.035 dB

Peak SAR (extrapolated) = 7.29 W/kg

#### SAR(1 g) = 4.14 mW/g; SAR(10 g) = 2.17 mW/g

Maximum value of SAR (measured) = 4.66 mW/g

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

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 57.5 V/m; Power Drift = 0.035 dB

Peak SAR (extrapolated) = 7.33 W/kg

## SAR(1 g) = 4.15 mW/g; SAR(10 g) = 2.17 mW/g

Maximum value of SAR (measured) = 4.68 mW/g

Procedure Notes: Pin: before 100.1 mW / after 100.3 mW  $\,$ 

Humidity: 41.8% Ambient Temp: 22.2 C Simulant Temp: 22.3 C



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REPORT

## 1900 MHz SAR Distribution of Validation Dipole Antenna

System Performance Check on September 2, 2005 (Using body tissue).

BASY3 - [[Validation_1900B0DY_536_1020_02Sept05_T01.DA3] 1900 MHz]	_ 8 ×						
	_ B ×						
$\begin{array}{l} \textbf{Dipole} \\ \text{SAM 1020 (L) Phantom; Flat Section; Position: (90°,90°); Frequency: 1900 MHz} \\ \text{Probe: ET3DV6 - SN1587; ConvF(4.57,4.57,4.57); Crest factor: 1.0; Body 1900 MHz: \sigma = 1.53 mho/m \varepsilon_r = 51.1 \rho = 1.00 g/cm3 Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0; Max at 40.0, 42.0, 4.0; \\ \text{Penetration depth: 8.6 (7.9, 9.9) [mm]; Powerdrift: 0.03 dB} \\ \text{Cubes (2): Peak: 8.20 mWig \pm 0.03 dB} \\ \text{Cubes (2): SAR (1g): 4.37 mWig \pm 0.04 dB, SAR (10g): 2.26 mWig \pm 0.05 dB, (Worst-case extrapolation)} \\ \text{Pin: before 101.1mW}  \text{after}  100.8mW \\ 3.4mm surface detect/teflon caps on dipole \\ \text{Humidity: } 44.4\%  \text{Ambient Temp: } 22.1 C \qquad \text{Simulant Temp: } 22.2 C \\ \text{Filename: Validation_1900BODY_536_1020_02Sept05_T01} \end{array}$							
	SAR <sub>rot</sub> [mW/g] 4.97E+0 4.48E+0 3.98E+0 3.48E+0 2.98E+0 2.98E+0 1.99E+0 1.49E+0 1.49E+0 9.95E-1 4.97E-1						
For Help, press F1							

 

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## Appendix 2

## SAR distribution plots for Phantom Head Adjacent Use

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REPORT

#### 800 GSM Band: SAR Distribution and Extrapolation of Maximum SAR Model: W600i SN: BD3023GNBB with Standard Battery: BST-37 Diald Side Check Desition DUT in closed position

## Right Side, Cheek Position. DUT in closed position.

Date/Time: 8/30/2005 12:46:03 PMDate/Time: 8/30/2005 12:51:38 PM File Name: 30Aug05 W600i GSM850 GNBB closed RC01.da4

#### DUT: W600i closed

Program Notes: Battery BST-37 Humidity: 46.1% Amb ient Temp: 23.5C Simulant Temp: 22.9C Communication System: GSM 850; Frequency: 849 MHz; Duty Cycle: 1:8.3 Medium: Head 835/900 MHzMedium parameters used (interpolated): f = 849 MHz; s = 0.911 mho/m;  $e_r = 40.9$ ; ? = 1000kg/m<sup>3</sup> Phantom section: Right Section **DASY4** Configuration: - Probe: ET3DV6 - SN1586; ConvF(6.58, 6.58, 6.58); Calibrated: 5/26/2005 - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE3 Sn417; Calibrated: 11/11/2004 - Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251 - Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146 Unnamed procedure 3/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm Info: Interpolated medium parameters used for SAR evaluation! Maximum value of SAR (interpolated) = 0.629 mW/gUnnamed procedure 3/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 23.6 V/m; Power Drift = -0.021 dBPeak SAR (extrapolated) = 0.747 W/kgSAR(1 g) = 0.591 mW/g; SAR(10 g) = 0.430 mW/gInfo: Interpolated medium parameters used for SAR evaluation! Maximum value of SAR (measured) = 0.625 mW/gUnnamed procedure 3/Zoom Scan (31x31x36)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 23.6 V/m; Power Drift = -0.021 dB

Info: Interpolated medium parameters used for SAR evaluation!

Maximum value of SAR (interpolated) = 0.747 mW/g

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REPORT

#### 800 GSM Band: Distribution and Extrapolation of Maximum SAR Model: W600i SN: BD3023GNBB with Standard Battery: BST-37 Right Side, Tilt Position. DUT in closed position.

Date/Time: 8/30/2005 11:39:05 AM Date/Time: 8/30/2005 11:44:51 AM File Name: 30Aug05 W600i GSM850 GNBB closed RT01.da4

#### DUT: W600i closed

Program Notes: Battery BST-37 Humidity: 45.9% Ambient Temp: 23.4C Simulant Temp: 22.7C Communication System: GSM 850; Frequency: 849 MHz; Duty Cycle: 1:8.3 Medium: Head 835/900 MHzMedium parameters used (interpolated): f = 849 MHz; s = 0.911 mho/m;  $e_r = 40.9$ ; ? = 1000kg/m<sup>3</sup> Phantom section: Right Section **DASY4** Configuration: - Probe: ET3DV6 - SN1586; ConvF(6.58, 6.58, 6.58); Calibrated: 5/26/2005 - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE3 Sn417; Calibrated: 11/11/2004 - Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251 - Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146 Unnamed procedure 3/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm Info: Interpolated medium parameters used for SAR evaluation! Maximum value of SAR (interpolated) = 0.417 mW/gUnnamed procedure 3/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 21.1 V/m; Power Drift = 0.015 dBPeak SAR (extrapolated) = 0.508 W/kgSAR(1 g) = 0.391 mW/g; SAR(10 g) = 0.277 mW/g Info: Interpolated medium parameters used for SAR evaluation! Maximum value of SAR (measured) = 0.414 mW/gUnnamed procedure 3/Zoom Scan (31x31x36)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 21.1 V/m; Power Drift = 0.015 dBInfo: Interpolated medium parameters used for SAR evaluation!

Maximum value of SAR (interpolated) = 0.508 mW/g

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REPORT

## 800 GSM Band: Distribution and Extrapolation of Maximum SAR Model: W600i SN: BD3023GNBB with Standard Battery: BST-37

## Left Side, Cheek/Touch Position. DUT in closed position.

Date/Time: 8/30/2005 9:40:41 AM Date/Time: 8/30/2005 9:46:17 AM File Name: 30Aug05 W600i GSM850 GNBB closed LC01.da4

#### DUT: W600i closed

Program Notes: Battery BST-37 Humidity: 46.5% Ambient Temp: 22.8 Simulant Temp: 22.5 Communication System: GSM 850; Frequency: 849 MHz; Duty Cycle: 1:8.3 Medium: Head 835/900 MHzMedium parameters used (interpolated): f = 849 MHz; s = 0.911 mho/m;  $e_r = 40.9$ ; ? = 1000kg/m<sup>3</sup> Phantom section: Left Section **DASY4** Configuration: - Probe: ET3DV6 - SN1586; ConvF(6.58, 6.58, 6.58); Calibrated: 5/26/2005 - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE3 Sn417; Calibrated: 11/11/2004 - Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251 - Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146 Unnamed procedure 3/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm Info: Interpolated medium parameters used for SAR evaluation! Maximum value of SAR (interpolated) = 0.620 mW/gUnnamed procedure 3/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 21.6 V/m; Power Drift = 0.019 dBPeak SAR (extrapolated) = 0.778 W/kgSAR(1 g) = 0.584 mW/g; SAR(10 g) = 0.419 mW/gInfo: Interpolated medium parameters used for SAR evaluation! Maximum value of SAR (measured) = 0.616 mW/gUnnamed procedure 3/Zoom Scan (31x31x36)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 21.6 V/m; Power Drift = 0.019 dB

Info: Interpolated medium parameters used for SAR evaluation!

Maximum value of SAR (interpolated) = 0.778 mW/g

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REPORT

## 800 GSM Band: Distribution and Extrapolation of Maximum SAR Model: W600i SN: BD3023GNBB with Standard Battery: BST-37

#### Left Side, Tilt Position. DUT in closed position.

Date/Time: 8/30/2005 10:39:38 AM Date/Time: 8/30/2005 10:45:14 AM File Name: 30Aug05 W600i GSM850 GNBB closed LT01.da4

#### DUT: W600i closed

Program Notes: Battery BST-37 Humidity: 44.4% Ambient Temp: 23.6C Simulant Temp: 23.1C Communication System: GSM 850; Frequency: 849 MHz; Duty Cycle: 1:8.3 Medium: Head 835/900 MHzMedium parameters used (interpolated): f = 849 MHz; s = 0.911 mho/m;  $e_r = 40.9$ ; ? = 1000kg/m<sup>3</sup> Phantom section: Left Section **DASY4** Configuration: - Probe: ET3DV6 - SN1586; ConvF(6.58, 6.58, 6.58); Calibrated: 5/26/2005 - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE3 Sn417; Calibrated: 11/11/2004 - Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251 - Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146 Unnamed procedure 3/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm Info: Interpolated medium parameters used for SAR evaluation! Maximum value of SAR (interpolated) = 0.443 mW/gUnnamed procedure 3/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 20.5 V/m; Power Drift = -0.01 dBPeak SAR (extrapolated) = 0.622 W/kg SAR(1 g) = 0.417 mW/g; SAR(10 g) = 0.288 mW/g Info: Interpolated medium parameters used for SAR evaluation! Maximum value of SAR (measured) = 0.442 mW/gUnnamed procedure 3/Zoom Scan (31x31x36)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 20.5 V/m; Power Drift = -0.01 dB

Info: Interpolated medium parameters used for SAR evaluation!

Maximum value of SAR (interpolated) = 0.622 mW/g

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REPORT

## 800 GSM Band: Distribution and Extrapolation of Maximum SAR Model: W600i SN: BD3023GNBB with Standard Battery: BST-37

#### Right Side, Cheek/Touch Position with Blue Tooth. DUT in closed position.

Date/Time: 8/30/2005 1:54:03 PMDate/Time: 8/30/2005 1:59:37 PM

File Name: 30Aug05 W600i GSM850 GNBB closed BT RC01.da4

#### DUT: W600i closed

Program Notes: Battery BST-37 Humidity: 45.2% Ambient Temp: 22.9C Simulant Temp: 23.2C Communication System: GSM 850; Frequency: 849 MHz; Duty Cycle: 1:8.3 Medium: Head 835/900 MHzMedium parameters used (interpolated): f = 849 MHz; s = 0.911 mho/m;  $e_r = 40.9$ ; ? = 1000kg/m<sup>3</sup> Phantom section: Right Section **DASY4** Configuration: - Probe: ET3DV6 - SN1586; ConvF(6.58, 6.58, 6.58); Calibrated: 5/26/2005 - Sensor-Surface: 4mm (Mechanical Surface Detection) - Electronics: DAE3 Sn417; Calibrated: 11/11/2004 - Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251 - Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146 Unnamed procedure 3/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm Info: Interpolated medium parameters used for SAR evaluation! Maximum value of SAR (interpolated) = 0.628 mW/gUnnamed procedure 3/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 23.2 V/m; Power Drift = 0.01 dBPeak SAR (extrapolated) = 0.750 W/kgSAR(1 g) = 0.590 mW/g; SAR(10 g) = 0.429 mW/gInfo: Interpolated medium parameters used for SAR evaluation! Maximum value of SAR (measured) = 0.624 mW/gUnnamed procedure 3/Zoom Scan (31x31x36)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 23.2 V/m; Power Drift = 0.01 dB

Info: Interpolated medium parameters used for SAR evaluation!

Maximum value of SAR (interpolated) = 0.750 mW/g

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