Sony Ericsson

Company Internal
REPORT

Prepared (also subject responsible if other)		No.		
LD/SEMC/BGGI/NM *Ramadan Plicanic*		*BGGIN05:048*		
Approved	Checked	Date	Rev	Reference
LD/SEMC/BGGI/NMC *Mats Hansson*		*050616*	B	

Report issued by Accredited SAR Laboratory

for

PY7AD021021(K600)

Date of test: *10 and 13 June 2005*

Laboratory:
Sony Ericsson SAR Test Laboratory
Sonyericsson Mobile Communications AB
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Statement of Compliance

Sony Ericsson Mobile Communications AB declares under its sole responsibility that the product

Sony Ericsson Type: AAD-3021021-BV; FCC ID: PY7AD021021; IC: 4170B-AD021021

to which this declaration relates, is in conformity with the appropriate RF exposure standards recommendations and guidelines. 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)

This laboratory is accredited to ISO/IEC 17025 (SWEDAC accreditation no. 1847).

Laboratories are accredited by the Swedish Board for Accreditation and Conformity Assessment (SWEDAC) under the terms of Swedish legislation. The accredited laboratory activities meet the requirements in SS-EN ISO/IEC 17025 (2000). This report may not be reproduced other than in full, except with the prior written approval of the issuing 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 encourages all feedback, both positive and negative, on this report.

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1 Table of contents

2 Introduction

In this test report, compliance of the Sony Ericsson PY7AD021021 (K600) portable telephone with RF safety guidelines is demonstrated. The applicable RF safety guidelines and the SAR measurement specifications used for the test are described in the *SAR Measurement Specifications of Wireless Handsets* [1].

3 Device Under Test

3.1 Antenna Description

Type	Internal	
Location	On top on the back side	
Dimensions	Max length	40 mm
	Max width	18 mm
Configuration	PIFA	

3.2 Device description

Device model	PY7AD021021 (k600)	
Serial number	CB50151UG3 (#3018)	
Mode	GSM1900	GSM1900 (GPRS 2 Slots)
Multiple Access Scheme	TDMA	TDMA
Maximum Output Power Setting	30.0 dBm	30.0 dBm
Factory Tolerance in Power Setting	±0.5 dB	±0.5 dB
Maximum Peak Output Power	30.5 dBm	30.5 dBm
Crest Factor	8	4
Transmitting Frequency Range(MHz)	1850.2 – 1909.8	
Prototype or Production Unit	Preproduction	
Device Category	Portable	
RF exposure environment	General population / uncontrolled	

4 Test equipment

4.1 Dosimetric system

SAR measurements were made using the DASY4 professional system (software version 4.4, B 3) with SAM twin phantom, manufactured by Schmid & Partner Engineering AG (SPEAG). The list of calibrated equipment is given below.

Description	***Serial Number***	***Due Date***
DASY3 DAE V1	640	October, 2005
E-field probe ETDV6	1815	January, 2006
Dipole Validation Kit, D1900V2	5d002	March, 2007

4.2 Additional equipment

Description	***Inventory Number***	***Due Date***
Signal generator ESG-D4000A	INV 462935	08, 2005
Directional coupler HP778D	INV 39656	01, 2006
Power meter R&S NRVD	INV 483920	01, 2006
Power sensor R&S NRV-Z5	INV 2333	11, 2005
Power sensor R&S NRV-Z5	INV 2334	01, 2006
Termination 65N50-0-11	INV 2903	02, 2006
Network analyzer HP8753C	INV421671	09, 2005
S-parameter test set HP85047A	INV 421670	09, 2005
Dielectric probe kit HP8507D	INV 20000053	Self cal

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5 Electrical parameters on 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 are shown in the table below. The mass density, ρ, entered into the DASY3 software is also given. Recommended limits for permittivity ε_r, conductivity σ and mass density ρ are also shown.

f (MHz)	Tissue type	Limits / Measured	Dielectric Parameters		
			ε_r	σ (S/m)	ρ (g/cm³)
1900	Head	**Measured, 13/06/2005**	39.5	1.47	1.00
		Recommended	40.0	1.4	1.00
1900	Body	**Measured, 10/06/2005**	50.8	1.48	1.00
		Recommended	53.3	1.52	1.00

6 System accuracy verification

A system accuracy verification of the DASY3 was performed using the dipole validation kit listed in section 3.1. The system verification test was conducted on the same day as the measurement of the DUT. Measurement made in ambient temperature 21.7-22.2 °C and humanity 29.5-33.5%. The obtained results are displayed in the table below.

RF noise had been measured in liquid when all RF equipment in lab was set off. Measured value was 0.0009 mW/g in 1g mass.

f (MHz)	Tissue type	Measured / Reference	SAR (W/kg) 1g/10g	Dielectric Parameters			Liquid t(°C)
				ε_r	σ (S/m)	ρ (g/cm³)	
1900	Head	**Measured, 13/06/2005**	40.6/20.8	39.5	1.47	1.00	21
		Reference	39.2/20.6	39.6	1.45	1.00	-
1900	Body	**Measured, 10/06/2005**	38.8/20.7	50.8	1.48	1.00	21
		Reference	39.6/20.9	51.6	1.58	1.00	-

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Company Internal
REPORT

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Approved	Checked	Date	Rev	Reference	
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7 SAR measurement uncertainty

SAR measurement uncertainty evaluation for Sonyericsson K600 phone

Uncertainty Component	Uncer. (%)	Prob Dist.	Div.	C_i	1900 Head	1900 Body
Measurement System						
Probe Calibration	±4.4	N	1	1	±4.4	±4.4
Axial Isotropy	±4.7	R	v3	0.5	±1.4	±1.4
Spherical Isotropy	±9.6	R	v3	0.5	±2.8	±2.8
Spatial resolution	±0.0	R	v3	1	±0.0	±0.0
Boundary effect	±5.5	R	v3	1	±3.2	±3.2
Probe linearity	±4.7	R	v3	1	±2.7	±2.7
Detection limit	±1.0	R	v3	1	±0.6	±0.6
Readout electronics	±1.0	N	1	1	±1.0	±1.0
Response time	±0.8	R	v3	1	±0.5	±0.5
Integration time	±1.4	R	v3	1	±0.8	±0.8
RF Ambient Conditions	±3.0	R	v3	1	±1.7	±1.7
Mech. Constraints of robot	±0.4	R	v3	1	±0.2	±0.2
Probe positioning	±2.9	R	v3	1	±1.7	±1.7
Extrap, interpolation and integration	±3.9	R	v3	1	±2.3	±2.3
Measurement System Uncertainty					**±7.7**	**±7.7**
Test Sample Related						
Device positioning	±6.0	N	0.89	1	±6.7	±6.7
Device holder uncertainty	±5.0	N	0.84	1	±5.9	±5.9
Power drift	±2.1/±2.6	R	v3	1	±1.2	±1.5
Test Sample Related Uncertainty					**±9.0**	**±9.1**
Phantom and Tissue Parameters						
Phantom uncertainty	±4.0	R	v3	1	±2.3	±2.3
Liquid conductivity (meas)	±5.0	R	v3	0.6	±1.7	±1.7
Liquid conductivity (target)	±5.0/±2.6	R	v3	0.6	±1.7	±0.9
Liquid Permittivity (meas)	±5.0	R	v3	0.6	±1.7	±1.7
Liquid Permittivity (target)	±4.7/±1.25	R	v3	0.6	±1.6	±0.4
Phantom and Tissue Parameters Uncertainty					**±4.1**	**±3.5**
Combined standard uncertainty					*±12.5*	*±12.4*
Extended standard uncertainty (k=2)					***±25.0***	***±24.8***

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8 Test results

The measured 1-gram and averaged SAR values of the device against the head are provided in Tables 1 and body are provided in Tables 2. The ambient humidity and temperature of test facility were 33.5% - 29.5% and 21.7 °C – 22.2 °C respectively. The depth of the head tissue simulating liquid was 15.5cm. A base station simulator was used to control the device during the SAR measurement. The phone was supplied with full-charged battery for each measurement.

For head measurement, the device was tested on the right-hand phantom (corresponding to the right side of the head) and the left-hand phantom in two phone position, cheek (touch) and tilt (cheek + 15deg).

For body measurement phone was tested on the antenna to the phantom and back to the phantom in GPRS 2 Slots mode on 15mm distance between phone and phantom. For speech mode phone was antenna to phantom in position with 15mm distance and with connected portable hands free accessory HPM-20. For all modes, the device was tested at the lowest, middle and highest frequencies in the transmit band. For Blue Tooth mode, phone was pared with Sony Ericsson HBH-200 Blue Tooth head sets and measured on worst case speech mode body position.

Mode	Channel	Peak Output Power(dBm)	Phone Position	Liquid temp(°C)	SAR (W/kg) in 1g mass	
					Right-hand	Left-hand
GSM 1900 Head	512	30.15	**Cheek**	21.0/21.0	0.36	**0.5**
			Tilt	21.5/21.0	0.31	0.39
	661	30.26	**Cheek**	21.0/21.0	0.32	0.46
			Tilt	21.5/21.0	0.29	0.36
	810	30.35	**Cheek**	21.0/21.0	0.32	0.41
			Tilt	21.5/21.0	0.25	0.32

Table1: SAR measurement result for Sony Ericsson PY7AD021021 (K600) telephone at highest possible output power. Measured against the head.

Mode	Channel	Power (dBm)	Phone Position	Liquid t (°C)	SAR (W/kg) in 1 g mass
GSM 1900 Body	512	30.15	**Antenna to phantom, GPRS 2 Slots**	21.0	**0.47**
			Front to phantom, GPRS 2 Slots	21.5	0.15
			Antenna to phantom, Speech	21.0	0.19
			Antenna to phantom +BT, Speech	21.5	0.26
	661	30.26	**Antenna to phantom, GPRS 2 Slots**	21.0	0.4
			Antenna to phantom, Speech	21.0	0.17
	810	30.35	**Antenna to phantom, GPRS 2 Slots**	21.0	0.24
			Antenna to phantom, Speech	21.0	0.1

Table2: SAR measurement result for Sony Ericsson PY7AD021021 (K600) telephone at highest possible output power. Measured against the body.

9 References

[1] R.Plicanic, “SAR Measurement Specification of Wireless Handsets”, Sony Ericsson SAR Test Laboratory internal document GUG/N 03:141

[2] Basic standard for the Measurement of Specific Absorption Rate related to human exposure to electromagnetic fields from mobile phones (300MHz-3GHz), European Standard EN 50361, July 2001

[3] FCC, “Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields: Additional Information for Evaluating Compliance of Mobile and Portable Devices with FCC Limits for Human Exposure to Radio Frequency Emissions,” Supplement C (Edition 01-01) to OET Bulletin 65 (Edition 97-01).

[4] 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 1528-2003, June, 2003.

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10 Appendix

10.1 Photographs of Device Under Test

Phone Front

Phone Back

Phone back and battery

Phone System Contact

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Accessories used for measurement

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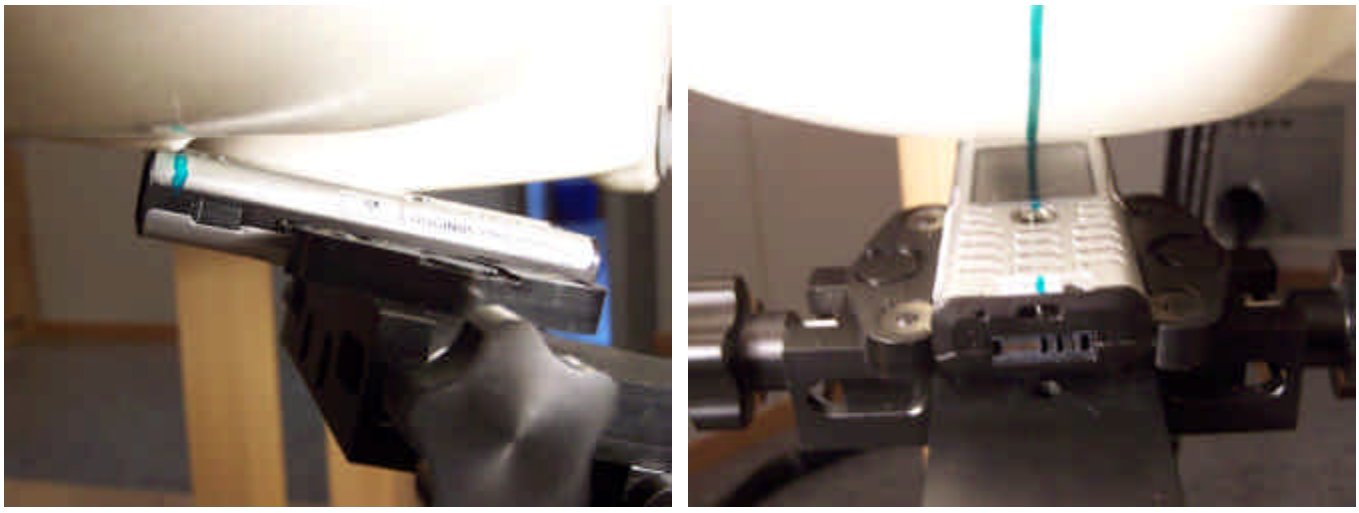
10.2 Photographs of DUT on SAM Twins Phantom

Cheek Phone Position



Tilt Phone Position

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Speech Body Position

GPRS Body Position

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Approved		Checked	Date	Rev	Reference
LD/SEMC/BGGI/NMC	*Mats Hansson*	*050616*	*050616*	B	File

10.3 Attachment

- **Verification measurement (SAR lab, Reference)**
- **SAR Measurements Plots**
- **Probe Calibration Report**

Date/Time: 06/10/05 09:06:54

Test Laboratory: Sony Ericsson Mobile Communications
File Name: Verification1900MHz_Body_050610.da4

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d002

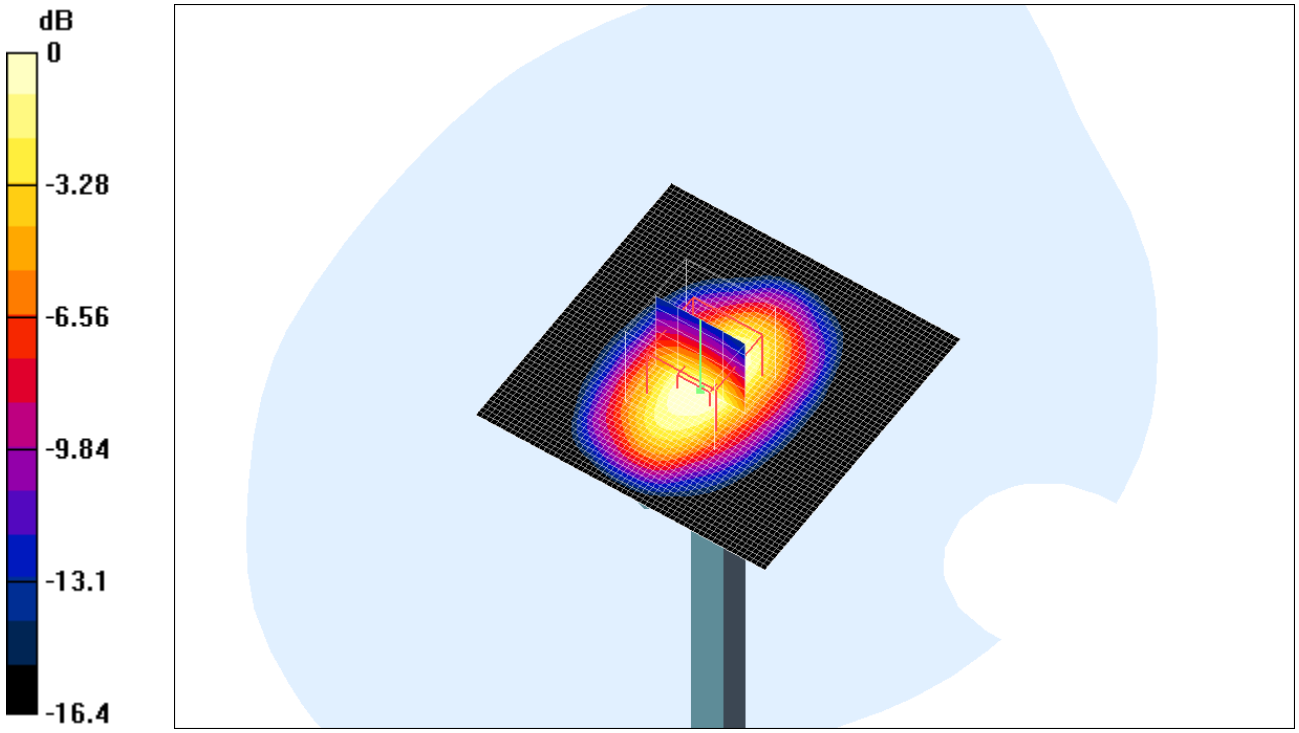
Program Name: Verification Measurement 1900 Body

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.48 mho/m; ε_r = 50.8; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1815; ConvF(4.69, 4.69, 4.69); Calibrated: 2005-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn640; Calibrated: 2004-10-12
- Phantom: SAM 5; Type: SAM; Serial: 1352
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

Power = 100mW, Distance = 10mm
Flat, 15mm/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 4.76 mW/g

Flat, 15mm/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7mm, dy=7mm, dz=5mm
Reference Value = 57.8 V/m; Power Drift = 0.0 dB
Peak SAR (extrapolated) = 6.39 W/kg
SAR(1 g) = 3.88 mW/g; SAR(10 g) = 2.07 mW/g
Maximum value of SAR (measured) = 4.38 mW/g



0 dB = 4.38mW/g

Date/Time: 06/13/05 09:28:24

Test Laboratory: Sony Ericsson Mobile Communications
File Name: Verification1900MHz_Head_050613.da4

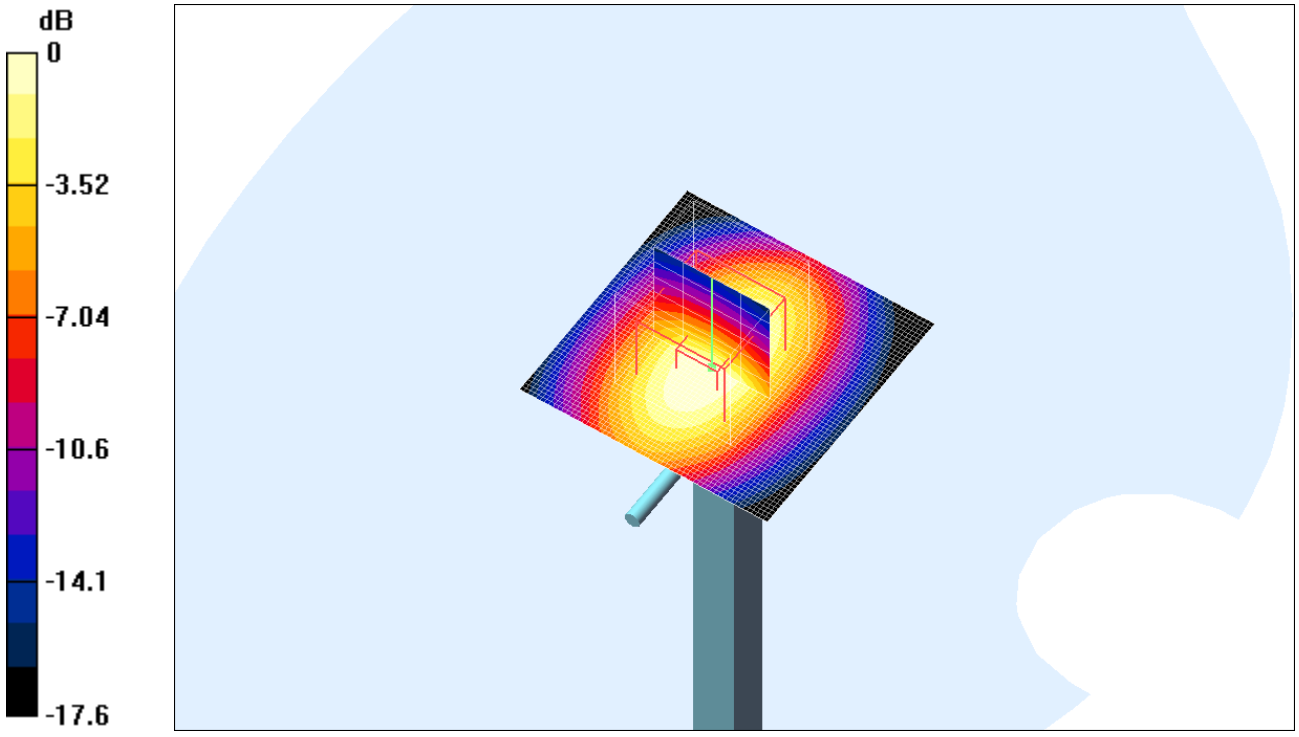
DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d002
Program Name: Verification Measurement, Head 1900MHz

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.47 mho/m; ε_r = 39.5; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1815; ConvF(5.31, 5.31, 5.31); Calibrated: 2005-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn640; Calibrated: 2004-10-12
- Phantom: SAM 5; Type: SAM; Serial: 1352
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

Flat, 10mm/Area Scan (61x61x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 4.63 mW/g

Flat, 10mm/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7mm, dy=7mm, dz=5mm
Reference Value = 58.2 V/m; Power Drift = 0.0 dB
Peak SAR (extrapolated) = 7.08 W/kg
SAR(1 g) = 4.03 mW/g; SAR(10 g) = 2.08 mW/g
Maximum value of SAR (measured) = 4.56 mW/g



0 dB = 4.56mW/g

DASY4 Validation Report for Body TSL

Date/Time: 15.03.2005 15:20:32

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d002

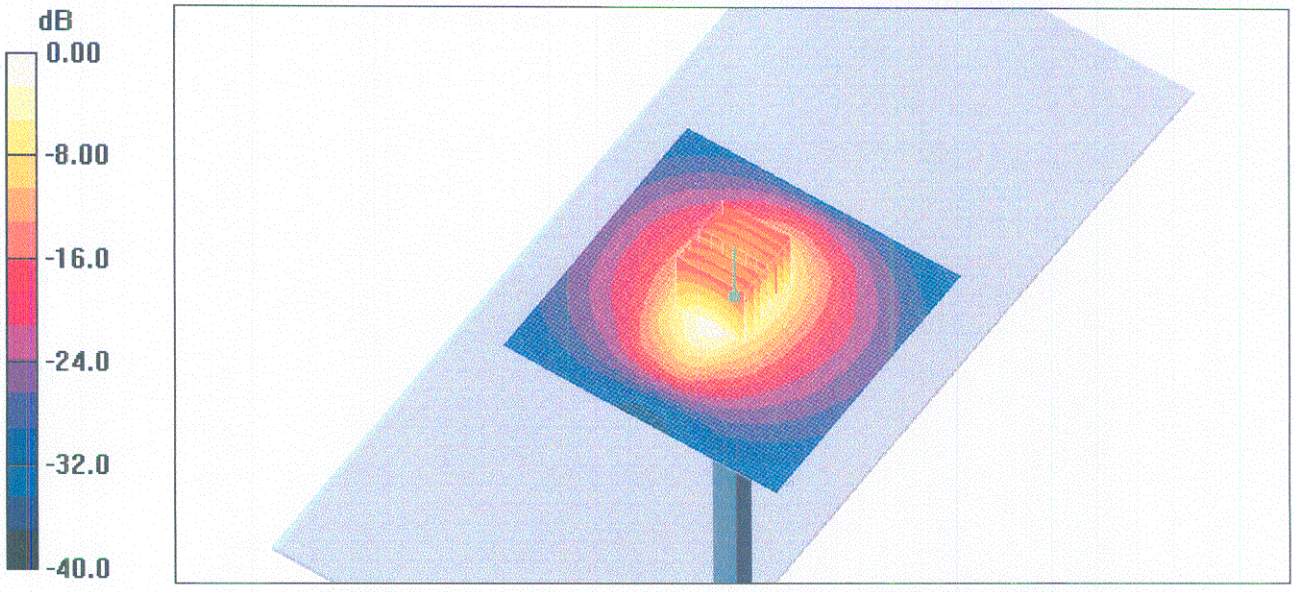
Communication System: CW-1900; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: MSL 1900 MHz;
Medium parameters used: f = 1900 MHz; σ = 1.57 mho/m; ε_r = 52.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1507; ConvF(4.43, 4.43, 4.43); Calibrated: 26.10.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 07.01.2005
- Phantom: Flat Phantom 5.0; Type: QD000P50AA; Serial: 1001;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Pin = 250 mW; d = 10 mm/Area Scan (81x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 11.4 mW/g

Pin = 250 mW; d = 10 mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 87.3 V/m; Power Drift = 0.061 dB
Peak SAR (extrapolated) = 16.8 W/kg
SAR(1 g) = 9.91 mW/g; SAR(10 g) = 5.23 mW/g
Maximum value of SAR (measured) = 11.3 mW/g



0 dB = 11.3mW/g

DASY4 Validation Report for Head TSL

Date/Time: 09.03.2005 15:20:45

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d002

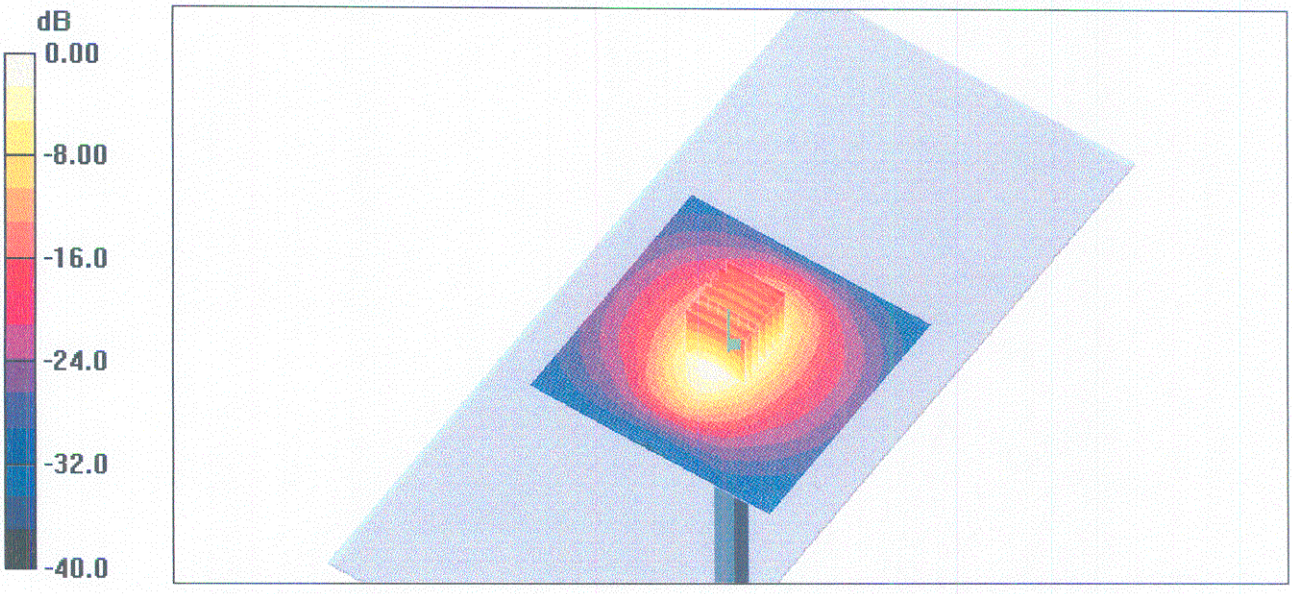
Communication System: CW-1900; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: HSL 1900 MHz;
Medium parameters used: f = 1900 MHz; σ = 1.46 mho/m; ε_r = 39.5; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1507; ConvF(4.96, 4.96, 4.96); Calibrated: 26.10.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 07.01.2005
- Phantom: Flat Phantom 5.0; Type: QD000P50AA; Serial: 1001;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Pin = 250 mW; d = 10 mm/Area Scan (81x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 11.4 mW/g

Pin = 250 mW; d = 10 mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 91.4 V/m; Power Drift = 0.037 dB
Peak SAR (extrapolated) = 16.9 W/kg
SAR(1 g) = 9.81 mW/g; SAR(10 g) = 5.15 mW/g
Maximum value of SAR (measured) = 11.0 mW/g



0 dB = 11.0mW/g

Date/Time: 06/10/05 10:37:27

Test Laboratory: Sony Ericsson Mobile Communications
File Name: ch810_GPRS_2Slot_15mm_050610_RP.da4

DUT: PY7AD021021; Type: GSM and UMTS; Serial: CB50151UG3

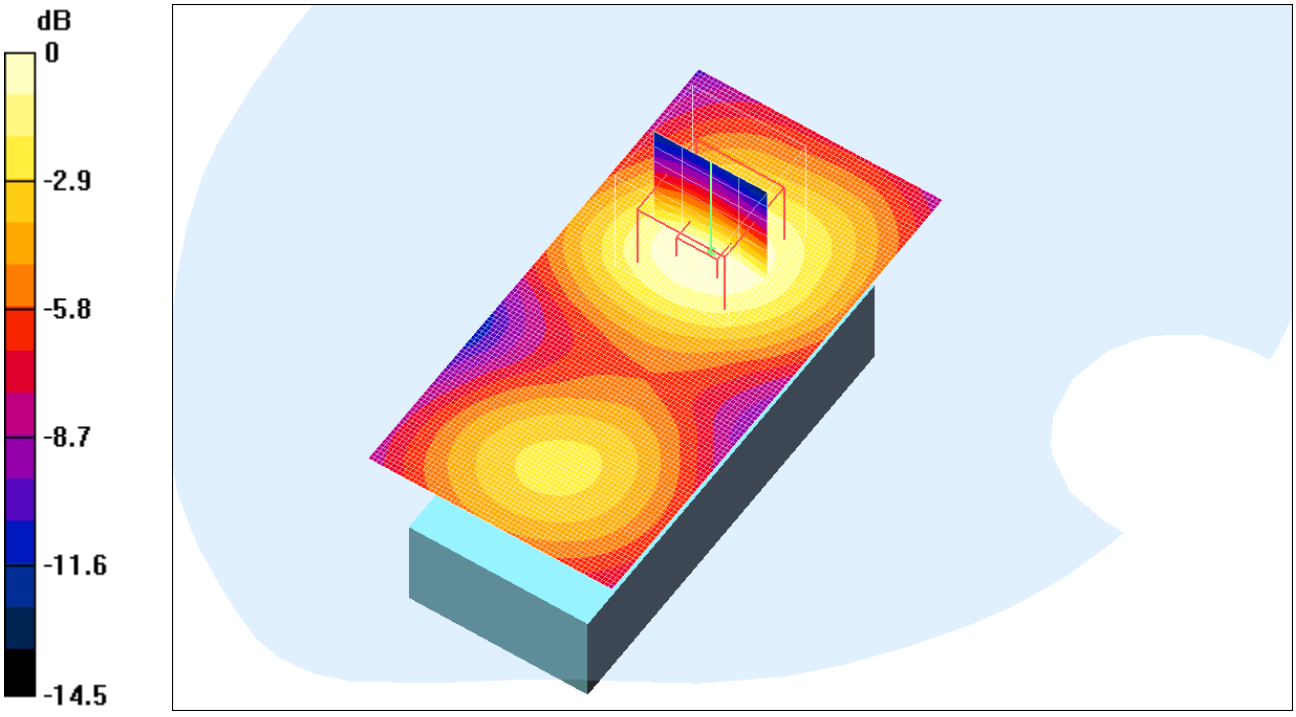
Program Name: GSM1900, GPRS 2 Slots

Communication System: GSM1900_GPRS; Frequency: 1909.8 MHz;Duty Cycle: 1:4.15
Medium parameters used: f = 1909.8 MHz; σ = 1.48 mho/m; ε_r = 50.8; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1815; ConvF(4.69, 4.69, 4.69); Calibrated: 2005-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn640; Calibrated: 2004-10-12
- Phantom: SAM 5; Type: SAM; Serial: 1352
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

Flat, 15mm/Area Scan (61x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.376 mW/g

Flat, 15mm/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7mm, dy=7mm, dz=5mm
Reference Value = 13.1 V/m; Power Drift = -0.1 dB
Peak SAR (extrapolated) = 0.541 W/kg
SAR(1 g) = 0.345 mW/g; SAR(10 g) = 0.209 mW/g
Maximum value of SAR (measured) = 0.374 mW/g



0 dB = 0.374mW/g

Date/Time: 06/10/05 12:50:12

Test Laboratory: Sony Ericsson Mobile Communications
File Name: ch661_Body_HFCable_15mm_050610_RP.da4

DUT: PY7AD021021; Type: GSM and UMTS; Serial:CB50151UG3

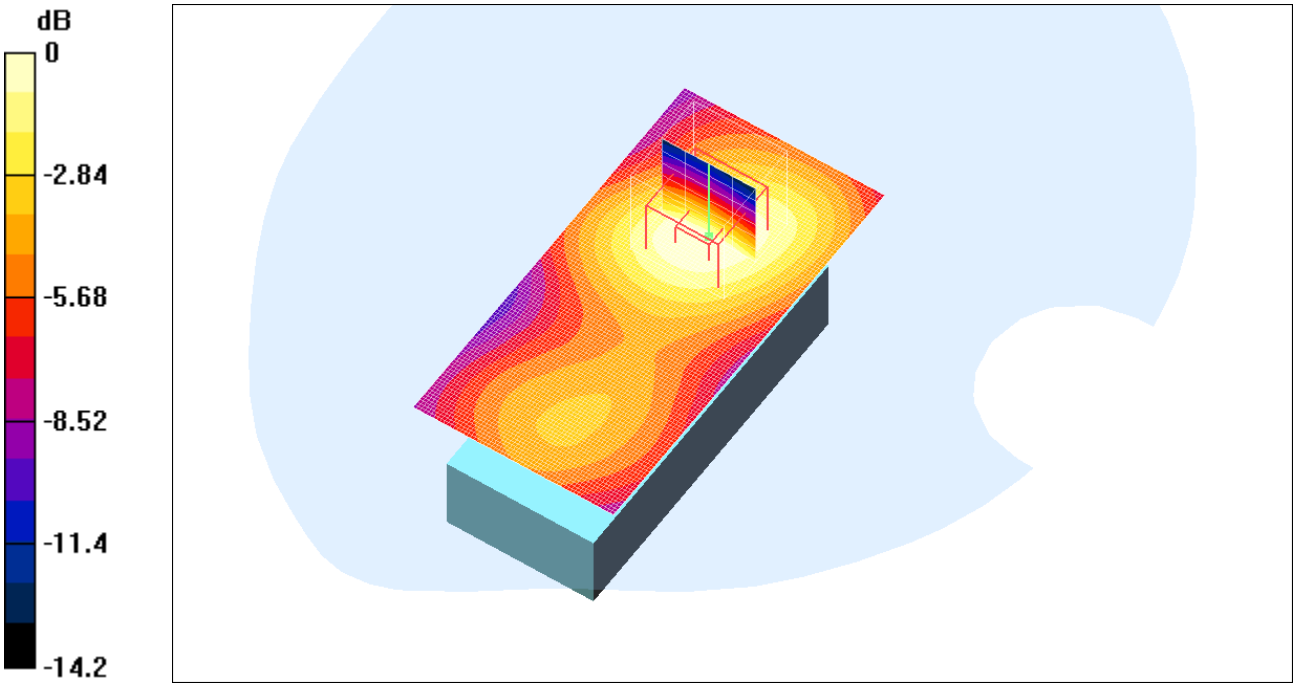
Program Name: GSM1900 body

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1880 MHz; σ = 1.48 mho/m; ε_r = 50.8; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1815; ConvF(4.69, 4.69, 4.69); Calibrated: 2005-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn640; Calibrated: 2004-10-12
- Phantom: SAM 5; Type: SAM; Serial: 1352
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

Flat, 15mm/Area Scan (61x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.187 mW/g

Flat, 15mm/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7mm, dy=7mm, dz=5mm
Reference Value = 9.86 V/m; Power Drift = -0.0 dB
Peak SAR (extrapolated) = 0.268 W/kg
SAR(1 g) = 0.170 mW/g; SAR(10 g) = 0.103 mW/g
Maximum value of SAR (measured) = 0.184 mW/g



0 dB = 0.184mW/g

Date/Time: 06/10/05 10:04:31

Test Laboratory: Sony Ericsson Mobile Communications
File Name: ch661_GPRS_2Slot_15mm_050610_RP.da4

DUT: PY7AD021021; Type: GSM and UMTS; Serial: CB50151UG3

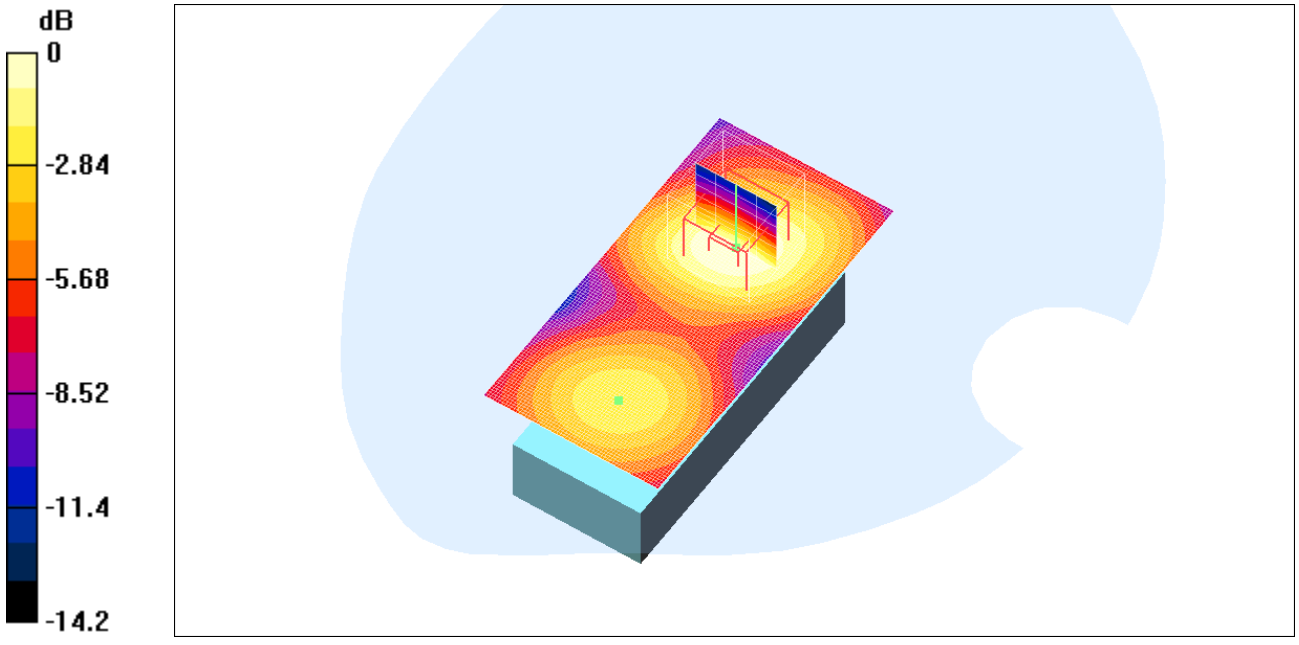
Program Name:GSM1900, GPRS 2 Slots

Communication System: GSM1900_GPRS; Frequency: 1880 MHz;Duty Cycle: 1:4.15
Medium parameters used: f = 1880 MHz; σ = 1.48 mho/m; ε_r = 50.8; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1815; ConvF(4.69, 4.69, 4.69); Calibrated: 2005-01-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn640; Calibrated: 2004-10-12
- Phantom: SAM 5; Type: SAM; Serial: 1352
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

Flat, 15mm/Area Scan (61x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.432 mW/g

Flat, 15mm/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7mm, dy=7mm, dz=5mm
Reference Value = 14.4 V/m; Power Drift = -0.1 dB
Peak SAR (extrapolated) = 0.623 W/kg
SAR(1 g) = 0.395 mW/g; SAR(10 g) = 0.239 mW/g
Maximum value of SAR (measured) = 0.430 mW/g



0 dB = 0.430mW/g