FCC ID: PH7PG330 DATE: February 1, 2007

ATTACHMENT S – DIPOLE CALIBRATION DATA

1 of 13

TEL: +82 31 639 8518 FAX: +82 31 639 8525 www.hct.co.kr Report No.: HCT-SAR07-0202 FCC ID: PH7PG330 DATE: February 1, 2007

Calibration Laboratory of Schmid & Partner **Engineering AG** Zeughausstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kalibrierdienst Service suisse d'étalonnage C Servizio svizzero di taratura Swiss Calibration Service

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H_CT (Dymetec)

Certificate No: D835V2-441 Aug06

Accreditation No.: SCS 108

	c)		835V2-441_Aug06
CALIBRATION C	CERTIFICATE		
Object	D835V2 - SN: 44	1	
Calibration procedure(s)	QA CAL-05.v6 Calibration proce	dure for dipole validation kits	
Calibration date:	August 14, 2006		
Condition of the calibrated item	In Tolerance		
The measurements and the unce	ortainties with confidence proceed in the closed laborator	onal standards, which realize the physical units of robability are given on the following pages and are y facility: environment temperature $(22 \pm 3)^{\circ}$ C and	part of the certificate.
Primary Standards	ID#	Cal Date (Calibrated by Certificate No.)	Scheduled Calibration
	ID# GB37480704	Cal Date (Calibrated by, Certificate No.) 04-Oct-05 (METAS, No. 251-00516)	Scheduled Calibration Oct-06
Power meter EPM-442A	ID# GB37480704 US37292783	04-Oct-05 (METAS, No. 251-00516)	Scheduled Calibration Oct-06 Oct-06
Power meter EPM-442A Power sensor HP 8481A	GB37480704		Oct-06
Power meter EPM-442A Power sensor HP 8481A Reference 20 dB Attenuator	GB37480704 US37292783	04-Oct-05 (METAS, No. 251-00516) 04-Oct-05 (METAS, No. 251-00516)	Oct-06 Oct-06
Power meter EPM-442A Power sensor HP 8481A Reference 20 dB Attenuator Reference 10 dB Attenuator	GB37480704 US37292783 SN: 5086 (20g)	04-Oct-05 (METAS, No. 251-00516) 04-Oct-05 (METAS, No. 251-00516) 10-Aug-06 (METAS, No 217-00591) 10-Aug-06 (METAS, No 217-00591)	Oct-06 Oct-06 Aug-07
Power meter EPM-442A Power sensor HP 8481A Reference 20 dB Attenuator Reference 10 dB Attenuator Reference Probe ET3DV6	GB37480704 US37292783 SN: 5086 (20g) SN: 5047.2 (10r)	04-Oct-05 (METAS, No. 251-00516) 04-Oct-05 (METAS, No. 251-00516) 10-Aug-06 (METAS, No 217-00591)	Oct-06 Oct-06 Aug-07 Aug-07
Power meter EPM-442A Power sensor HP 8481A Reference 20 dB Attenuator Reference 10 dB Attenuator Reference Probe ET3DV6 DAE4	GB37480704 US37292783 SN: 5086 (20g) SN: 5047.2 (10r) SN 1507	04-Oct-05 (METAS, No. 251-00516) 04-Oct-05 (METAS, No. 251-00516) 10-Aug-06 (METAS, No 217-00591) 10-Aug-06 (METAS, No 217-00591) 28-Oct-05 (SPEAG, No. ET3-1507_Oct05)	Oct-06 Oct-06 Aug-07 Aug-07 Oct-06
Power meter EPM-442A Power sensor HP 8481A Reference 20 dB Attenuator Reference 10 dB Attenuator Reference Probe ET3DV6 DAE4 Secondary Standards	GB37480704 US37292783 SN: 5086 (20g) SN: 5047.2 (10r) SN 1507 SN 601	04-Oct-05 (METAS, No. 251-00516) 04-Oct-05 (METAS, No. 251-00516) 10-Aug-06 (METAS, No 217-00591) 10-Aug-06 (METAS, No 217-00591) 28-Oct-05 (SPEAG, No. ET3-1507_Oct05) 15-Dec-05 (SPEAG, No. DAE4-601_Dec05) Check Date (in house) 18-Oct-02 (SPEAG, in house check Oct-05)	Oct-06 Oct-06 Aug-07 Aug-07 Oct-06 Dec-06 Scheduled Check In house check: Oct-07
Power meter EPM-442A Power sensor HP 8481A Reference 20 dB Attenuator Reference 10 dB Attenuator Reference Probe ET3DV6 DAE4 Secondary Standards Power sensor HP 8481A	GB37480704 US37292783 SN: 5086 (20g) SN: 5047.2 (10r) SN 1507 SN 601	04-Oct-05 (METAS, No. 251-00516) 04-Oct-05 (METAS, No. 251-00516) 10-Aug-06 (METAS, No 217-00591) 10-Aug-06 (METAS, No 217-00591) 28-Oct-05 (SPEAG, No. ET3-1507_Oct05) 15-Dec-05 (SPEAG, No. DAE4-601_Dec05) Check Date (in house) 18-Oct-02 (SPEAG, in house check Oct-05) 11-May-05 (SPEAG, in house check Nov-05)	Oct-06 Oct-06 Aug-07 Aug-07 Oct-06 Dec-06 Scheduled Check In house check: Oct-07 In house check: Nov-07
Power meter EPM-442A Power sensor HP 8481A Reference 20 dB Attenuator Reference 10 dB Attenuator Reference Probe ET3DV6 DAE4 Secondary Standards Power sensor HP 8481A RF generator Agilent E4421B	GB37480704 US37292783 SN: 5086 (20g) SN: 5047.2 (10r) SN 1507 SN 601	04-Oct-05 (METAS, No. 251-00516) 04-Oct-05 (METAS, No. 251-00516) 10-Aug-06 (METAS, No 217-00591) 10-Aug-06 (METAS, No 217-00591) 28-Oct-05 (SPEAG, No. ET3-1507_Oct05) 15-Dec-05 (SPEAG, No. DAE4-601_Dec05) Check Date (in house) 18-Oct-02 (SPEAG, in house check Oct-05)	Oct-06 Oct-06 Aug-07 Aug-07 Oct-06 Dec-06 Scheduled Check In house check: Oct-07
Power meter EPM-442A Power sensor HP 8481A Reference 20 dB Attenuator Reference 10 dB Attenuator Reference Probe ET3DV6 DAE4 Secondary Standards Power sensor HP 8481A RF generator Agilent E4421B	GB37480704 US37292783 SN: 5086 (20g) SN: 5047.2 (10r) SN 1507 SN 601 ID # MY41092317 MY41000675	04-Oct-05 (METAS, No. 251-00516) 04-Oct-05 (METAS, No. 251-00516) 10-Aug-06 (METAS, No 217-00591) 10-Aug-06 (METAS, No 217-00591) 28-Oct-05 (SPEAG, No. ET3-1507_Oct05) 15-Dec-05 (SPEAG, No. DAE4-601_Dec05) Check Date (in house) 18-Oct-02 (SPEAG, in house check Oct-05) 11-May-05 (SPEAG, in house check Nov-05) 18-Oct-01 (SPEAG, in house check Nov-05)	Oct-06 Oct-06 Aug-07 Aug-07 Oct-06 Dec-06 Scheduled Check In house check: Oct-07 In house check: Nov-07
Power meter EPM-442A Power sensor HP 8481A Reference 20 dB Attenuator Reference 10 dB Attenuator Reference Probe ET3DV6 DAE4 Secondary Standards Power sensor HP 8481A RF generator Agilent E4421B Network Analyzer HP 8753E	GB37480704 US37292783 SN: 5086 (20g) SN: 5047.2 (10r) SN 1507 SN 601 ID # MY41092317 MY41000675 US37390585 S4206	04-Oct-05 (METAS, No. 251-00516) 04-Oct-05 (METAS, No. 251-00516) 10-Aug-06 (METAS, No 217-00591) 10-Aug-06 (METAS, No 217-00591) 28-Oct-05 (SPEAG, No. ET3-1507_Oct05) 15-Dec-05 (SPEAG, No. DAE4-601_Dec05) Check Date (in house) 18-Oct-02 (SPEAG, in house check Oct-05) 11-May-05 (SPEAG, in house check Nov-05) 18-Oct-01 (SPEAG, in house check Nov-05)	Oct-06 Oct-06 Aug-07 Aug-07 Oct-06 Dec-06 Scheduled Check In house check: Oct-07 In house check: Nov-07 In house check: Nov-06
Primary Standards Power meter EPM-442A Power sensor HP 8481A Reference 20 dB Attenuator Reference 10 dB Attenuator Reference Probe ET3DV6 DAE4 Secondary Standards Power sensor HP 8481A RF generator Agilent E4421B Network Analyzer HP 8753E Calibrated by: Approved by:	GB37480704 US37292783 SN: 5086 (20g) SN: 5047.2 (10r) SN 1507 SN 601 ID # MY41092317 MY41000675 US37390585 S4206 Name	04-Oct-05 (METAS, No. 251-00516) 04-Oct-05 (METAS, No. 251-00516) 10-Aug-06 (METAS, No 217-00591) 10-Aug-06 (METAS, No 217-00591) 28-Oct-05 (SPEAG, No. ET3-1507_Oct05) 15-Dec-05 (SPEAG, No. DAE4-601_Dec05) Check Date (in house) 18-Oct-02 (SPEAG, in house check Oct-05) 11-May-05 (SPEAG, in house check Nov-05) 18-Oct-01 (SPEAG, in house check Nov-05)	Oct-06 Oct-06 Aug-07 Aug-07 Oct-06 Dec-06 Scheduled Check In house check: Oct-07 In house check: Nov-07 In house check: Nov-06

Certificate No: D835V2-441_Aug06 Page 1 of 6

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Report No.: HCT-SAR07-0202 FCC ID: PH7PG330 DATE: February 1, 2007

Calibration Laboratory of Schmid & Partner **Engineering AG** Zeughausstrasse 43, 8004 Zurich, Switzerland





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Accreditation No.: SCS 108

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Glossary:

tissue simulating liquid TSL

sensitivity in TSL / NORM x,y,z ConvF not applicable or not measured N/A

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2003, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", December 2003
- b) CENELEC EN 50361, "Basic standard for the measurement of Specific Absorption Rate related to human exposure to electromagnetic fields from mobile phones (300 MHz - 3 GHz), July 2001
- c) Federal Communications Commission Office of Engineering & Technology (FCC OET), "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 Bulletin 65

Additional Documentation:

d) DASY4 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

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Appendix

Antenna Parameters with Head TSL

Impedance, transformed to feed point	50.1 Ω - 6.7 jΩ	
Return Loss	- 23.5 dB	

General Antenna Parameters and Design

Electrical Delay (one direction)	1.376 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	March 09, 2001

Certificate No: D835V2-441_Aug06

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FCC ID: PH7PG330

DATE: February 1, 2007

Appendix

Antenna Parameters with Head TSL

Impedance, transformed to feed point	50.1 Ω - 6.7 jΩ	
Return Loss	- 23.5 dB	

General Antenna Parameters and Design

Electrical Delay (one direction)	1.376 ns
Electrical Delay (one direction)	1.576 118

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	March 09, 2001

Certificate No: D835V2-441_Aug06

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DASY4 Validation Report for Head TSL

Date/Time: 14.08.2006 13:00:04

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN: 441

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL900;

Medium parameters used: f = 835 MHz; $\sigma = 0.9$ mho/m; $\varepsilon_r = 42.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1507 (HF); ConvF(6.09, 6.09, 6.09); Calibrated: 28.10.2005

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn601; Calibrated: 15.12.2005

Phantom: Flat Phantom 4.9L; Type: QD000P49AA;;

Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

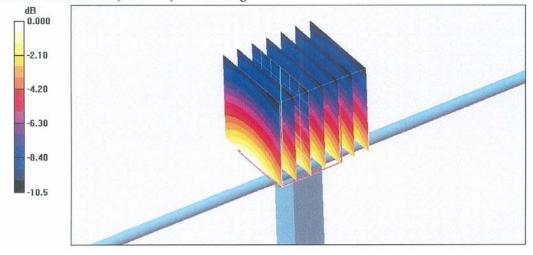
Pin = 250 mW; d = 15 mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm,

dz=5mm

Reference Value = 55.4 V/m; Power Drift = -0.067 dB

Peak SAR (extrapolated) = 3.50 W/kg

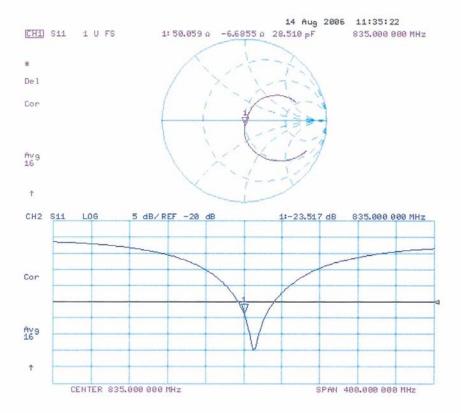
SAR(1 g) = 2.35 mW/g; SAR(10 g) = 1.53 mW/gMaximum value of SAR (measured) = 2.53 mW/g



0 dB = 2.53 mW/g

Certificate No: D835V2-441_Aug06

Impedance Measurement Plot for Head TSL



Certificate No: D835V2-441_Aug06



Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





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Client H-CT (Dymster	c)	Certifi	icate No: D1900V2-5d032_Mar06
CALIBRATION (CERTIFICATE		
Object	D1900V2 - SN: 5	d032	
Calibration procedure(s)	QA CAL-05.v6 Calibration proce	dure for dipole validation ki	its
Calibration date:	March 14, 2006		
Condition of the calibrated item	In Tolerance		
The measurements and the unce	rtainties with confidence potential in the closed laborator	onal standards, which realize the physobability are given on the following pays of the properties of the physobability: environment temperature (2)	ages and are part of the certificate.
Primary Standards	ID#	Cal Date (Calibrated by, Certificate	e No.) Scheduled Calibration
Power meter EPM-442A	GB37480704	04-Oct-05 (METAS, No. 251-00516	
Power sensor HP 8481A	US37292783	04-Oct-05 (METAS, No. 251-00516	
Reference 20 dB Attenuator	SN: 5086 (20g)	11-Aug-05 (METAS, No 251-00498	
Reference 10 dB Attenuator	SN: 5047.2 (10r)	11-Aug-05 (METAS, No 251-00498	57 C C C C C C C C C C C C C C C C C C C
Reference Probe ET3DV6	SN: 1507	28-Oct-05 (SPEAG, No. ET3-1507)	Oct05) Oct-06
DAE4	SN: 601	15-Dec-05 (SPEAG, No. DAE4-601	1_Dec05) Dec-06
Secondary Standards	ID#	Check Date (in house)	Scheduled Check
Power sensor HP 8481A	MY41092317	18-Oct-02 (SPEAG, in house check	k Oct-05) In house check: Oct-07
RF generator Agilent E4421B	MY41000675	11-May-05 (SPEAG, in house chec	ck Nov-05) In house check: Nov-07
Network Analyzer HP 8753E	US37390585 S4206	18-Oct-01 (SPEAG, in house check	k Nov-05) In house check: Nov-06
	Name	Function	Signature
Calibrated by:	Judith Müller	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	John Hot
			Issued: March 16, 2006

Certificate No: D1900V2-5d032_Mar06

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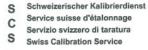
TEL: +82 31 639 8518 FAX: +82 31 639 8525

Report No.: HCT-SAR07-0202 DATE: February 1, 2007

> Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland







Accreditation No.: SCS 108

Accredited by the Swiss Federal Office of Metrology and Accreditation The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Glossary:

TSL tissue simulating liquid

ConvF sensitivity in TSL / NORM x,y,z N/A not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2003, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", December 2003
- b) CENELEC EN 50361, "Basic standard for the measurement of Specific Absorption Rate related to human exposure to electromagnetic fields from mobile phones (300 MHz - 3 GHz), July 2001
- c) Federal Communications Commission Office of Engineering & Technology (FCC OET), "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 Bulletin 65

Additional Documentation:

d) DASY4 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

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Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY4	V4.7
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom V5.0	
Distance Dipole Center - TSL	10 mm	with Spacer
Area Scan resolution	dx, dy = 15 mm	
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	1900 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	40.0	1.40 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	39.4 ± 6 %	1.42 mho/m ± 6 %
Head TSL temperature during test	(21.5 ± 0.2) °C		-

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	condition	
SAR measured	250 mW input power	9.89 mW / g
SAR normalized	normalized to 1W	39.6 mW/g
SAR for nominal Head TSL parameters ¹	normalized to 1W	38.9 mW / g ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	Condition	
SAR measured	250 mW input power	5.20 mW/g
SAR normalized	normalized to 1W	20.8 mW/g
SAR for nominal Head TSL parameters 1	normalized to 1W	20.6 mW / g ± 16.5 % (k=2)

Certificate No: D1900V2-5d032_Mar06

¹ Correction to nominal TSL parameters according to d), chapter "SAR Sensitivities"

Report No.: HCT-SAR07-0202 FCC ID: PH7PG330 DATE: February 1, 2007

Appendix

Antenna Parameters with Head TSL

Impedance, transformed to feed point	54.3 Ω + 3.1 jΩ	
Return Loss	- 26.8 dB	

General Antenna Parameters and Design

Electrical Delay (one direction)	1.192 ns
Liberious Doidy (disc discounty)	11102110

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	March 17, 2003

Certificate No: D1900V2-5d032_Mar06 Page 4 of 6

DASY4 Validation Report for Head TSL

Date/Time: 14.03.2006 15:46:07

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d032

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL U10 BB;

Medium parameters used: f = 1900 MHz; $\sigma = 1.42$ mho/m; $\varepsilon_r = 39.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 SN1507 (HF); ConvF(4.74, 4.74, 4.74); Calibrated: 28.10.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 15.12.2005
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; ;
- Measurement SW: DASY4, V4.7 Build 14; Postprocessing SW: SEMCAD, V1.8 Build 165

Pin = 250 mW; d = 10 mm/Area Scan (71x71x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 11.6 mW/g

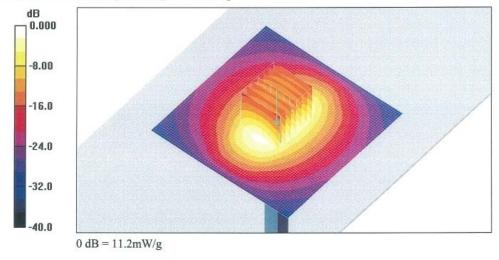
Pin = 250 mW; d = 10 mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 94.9 V/m; Power Drift = -0.022 dB

Peak SAR (extrapolated) = 17.0 W/kg

SAR(1 g) = 9.89 mW/g; SAR(10 g) = 5.2 mW/g

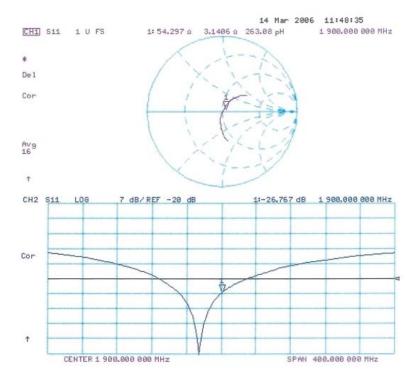
Maximum value of SAR (measured) = 11.2 mW/g



Certificate No: D1900V2-5d032 Mar06

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Impedance Measurement Plot for Head TSL



Certificate No: D1900V2-5d032_Mar06