



Body-worn 512ch (1850.2MHz) - close style

DUT: Cellular Phone; Type: F-01A; Serial: 359935010014839

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8

Medium: M1900 Medium parameters used: f = 1850.2 MHz; $\sigma = 1.57$ mho/m; $\varepsilon_r = 52.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

• Probe: ET3DV6 - SN1679; ConvF(4.8, 4.8, 4.8); Calibrated: 2007/11/15

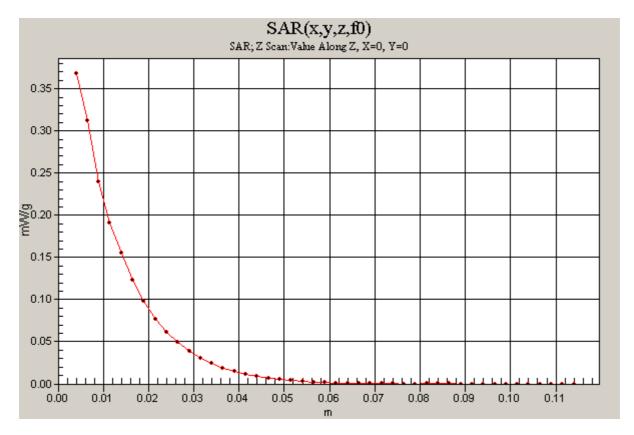
• Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

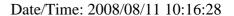
• Electronics: DAE3 Sn508; Calibrated: 2007/11/07

• Phantom: SAM 1200; Type: QD 000 P40 CA; Serial: 1200

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

Body-worn/Z Scan (1x1x45): Measurement grid: dx=20mm, dy=20mm, dz=2.5mm Maximum value of SAR (measured) = 0.368 mW/g







Body-worn 661ch (1880.0MHz) - close style

DUT: Cellular Phone; Type: F-01A; Serial: 359935010014839

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8

Medium: M1900 Medium parameters used: f = 1880 MHz; $\sigma = 1.57$ mho/m; $\varepsilon_r = 52.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

• Probe: ET3DV6 - SN1679; ConvF(4.8, 4.8, 4.8); Calibrated: 2007/11/15

• Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

• Electronics: DAE3 Sn508; Calibrated: 2007/11/07

• Phantom: SAM 1200; Type: QD 000 P40 CA; Serial: 1200

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

Body-worn/Area Scan (6x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.322 mW/g

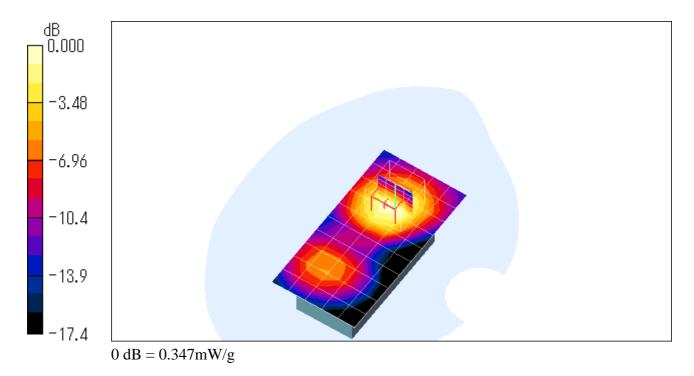
Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

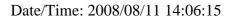
Reference Value = 7.27 V/m; Power Drift = -0.081 dB

Peak SAR (extrapolated) = 0.501 W/kg

SAR(1 g) = 0.322 mW/g; SAR(10 g) = 0.192 mW/g

Maximum value of SAR (measured) = 0.347 mW/g







Body-worn 810ch (1909.8MHz) - close style

DUT: Cellular Phone; Type: F-01A; Serial: 359935010014839

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8

Medium: M1900 Medium parameters used: f = 1909.8 MHz; $\sigma = 1.57$ mho/m; $\varepsilon_r = 52.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

• Probe: ET3DV6 - SN1679; ConvF(4.8, 4.8, 4.8); Calibrated: 2007/11/15

• Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

• Electronics: DAE3 Sn508; Calibrated: 2007/11/07

• Phantom: SAM 1200; Type: QD 000 P40 CA; Serial: 1200

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

Body-worn/Area Scan (6x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.300 mW/g

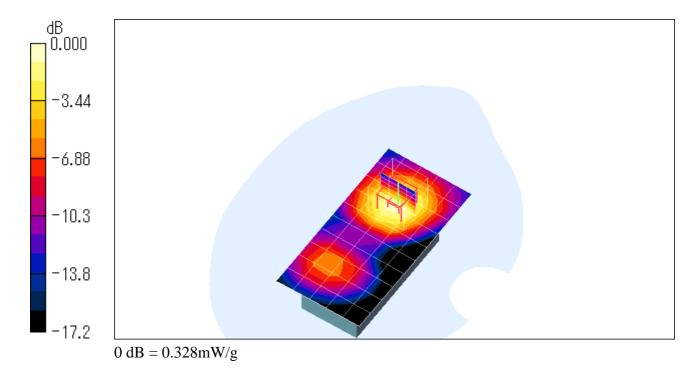
Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

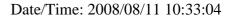
Reference Value = 6.47 V/m; Power Drift = -0.046 dB

Peak SAR (extrapolated) = 0.476 W/kg

SAR(1 g) = 0.301 mW/g; SAR(10 g) = 0.179 mW/g

Maximum value of SAR (measured) = 0.328 mW/g







Body-worn 661ch (1880.0MHz) / GPRS mode - close style

DUT: Cellular Phone; Type: F-01A; Serial: 359935010014839

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8

Medium: M1900 Medium parameters used: f = 1880 MHz; $\sigma = 1.57$ mho/m; $\varepsilon_r = 52.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

• Probe: ET3DV6 - SN1679; ConvF(4.8, 4.8, 4.8); Calibrated: 2007/11/15

• Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

• Electronics: DAE3 Sn508; Calibrated: 2007/11/07

• Phantom: SAM 1200; Type: QD 000 P40 CA; Serial: 1200

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

Body-worn/Area Scan (6x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.309 mW/g

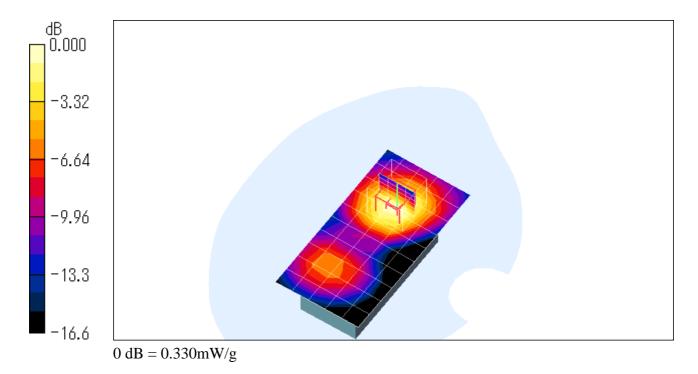
Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

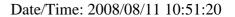
Reference Value = 7.07 V/m; Power Drift = -0.014 dB

Peak SAR (extrapolated) = 0.466 W/kg

SAR(1 g) = 0.302 mW/g; SAR(10 g) = 0.181 mW/g

Maximum value of SAR (measured) = 0.330 mW/g







Body-worn 661ch (1880.0MHz) - viewer style

DUT: Cellular Phone; Type: F-01A; Serial: 359935010014839

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8

Medium: M1900 Medium parameters used: f = 1880 MHz; $\sigma = 1.57$ mho/m; $\varepsilon_r = 52.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

• Probe: ET3DV6 - SN1679; ConvF(4.8, 4.8, 4.8); Calibrated: 2007/11/15

• Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

• Electronics: DAE3 Sn508; Calibrated: 2007/11/07

• Phantom: SAM 1200; Type: QD 000 P40 CA; Serial: 1200

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

Body-worn/Area Scan (6x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.267 mW/g

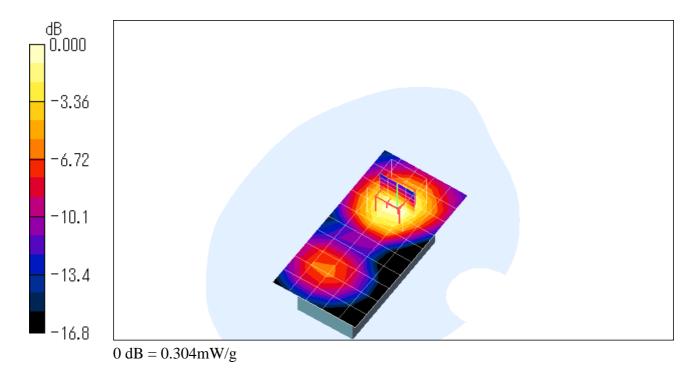
Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

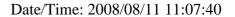
Reference Value = 6.56 V/m; Power Drift = -0.093 dB

Peak SAR (extrapolated) = 0.432 W/kg

SAR(1 g) = 0.278 mW/g; SAR(10 g) = 0.167 mW/g

Maximum value of SAR (measured) = 0.304 mW/g







Body-worn 661ch (1880.0MHz) / GPRS mode - viewer style

DUT: Cellular Phone; Type: F-01A; Serial: 359935010014839

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8

Medium: M1900 Medium parameters used: f = 1880 MHz; $\sigma = 1.57$ mho/m; $\varepsilon_r = 52.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

• Probe: ET3DV6 - SN1679; ConvF(4.8, 4.8, 4.8); Calibrated: 2007/11/15

• Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

• Electronics: DAE3 Sn508; Calibrated: 2007/11/07

• Phantom: SAM 1200; Type: QD 000 P40 CA; Serial: 1200

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

Body-worn/Area Scan (6x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.253 mW/g

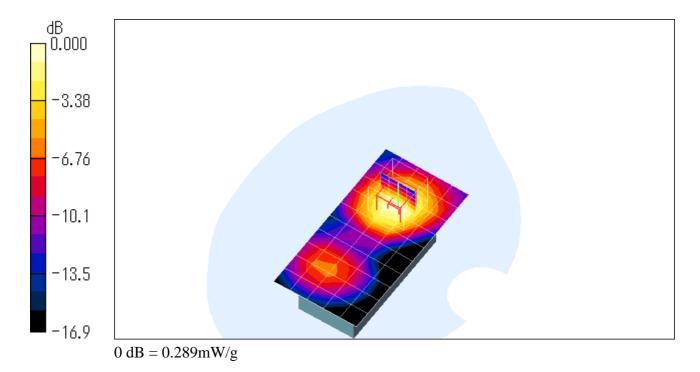
Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.32 V/m; Power Drift = -0.006 dB

Peak SAR (extrapolated) = 0.408 W/kg

SAR(1 g) = 0.264 mW/g; SAR(10 g) = 0.159 mW/g

Maximum value of SAR (measured) = 0.289 mW/g





Attachment 3 - Dosimetric E-Field Probe - ET3DV6, S/N: 1679 Calibration Data

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





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

Accredited by the Swiss Accreditation Service (SAS)

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Client

JQA (MTT)

Certificate No: ET3-1679_Nov07

Accreditation No.: SCS 108

C

Object	ET3DV6 - SN:1	679	
Calibration procedure(s)	QA CAL-01.v6 Calibration proc	edure for dosimetric E-field probes	
Calibration date:	November 15, 2	2007	
Condition of the calibrated item	In Tolerance		
		probability are given on the following pages and are ory facility: environment temperature $(22 \pm 3)^{\circ}$ C and	ASS
	TE critical for calibration)		
Calibration Equipment used (M&	TE critical for calibration)	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Calibration Equipment used (M&	9	Cal Date (Calibrated by, Certificate No.) 29-Mar-07 (METAS, No. 217-00670)	Scheduled Calibration Mar-08
Calibration Equipment used (M& Primary Standards Power meter E4419B	ID#		
Calibration Equipment used (M& Primary Standards Power meter E4419B Power sensor E4412A	ID # GB41293874 MY41495277 MY41498087	29-Mar-07 (METAS, No. 217-00670)	Mar-08
Calibration Equipment used (M& Primary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A	ID # GB41293874 MY41495277	29-Mar-07 (METAS, No. 217-00670) 29-Mar-07 (METAS, No. 217-00670)	Mar-08 Mar-08
Calibration Equipment used (M& Primary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator	ID # GB41293874 MY41495277 MY41498087	29-Mar-07 (METAS, No. 217-00670) 29-Mar-07 (METAS, No. 217-00670) 29-Mar-07 (METAS, No. 217-00670)	Mar-08 Mar-08 Mar-08
Calibration Equipment used (M& Primary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator	ID # GB41293874 MY41495277 MY41498087 SN: S5054 (3c)	29-Mar-07 (METAS, No. 217-00670) 29-Mar-07 (METAS, No. 217-00670) 29-Mar-07 (METAS, No. 217-00670) 8-Aug-07 (METAS, No. 217-00719) 29-Mar-07 (METAS, No. 217-00671) 8-Aug-07 (METAS, No. 217-00720)	Mar-08 Mar-08 Mar-08 Aug-08
Calibration Equipment used (M& Primary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator Reference Probe ES3DV2	ID # GB41293874 MY41495277 MY41498087 SN: S5054 (3c) SN: S5086 (20b) SN: S5129 (30b) SN: 3013	29-Mar-07 (METAS, No. 217-00670) 29-Mar-07 (METAS, No. 217-00670) 29-Mar-07 (METAS, No. 217-00670) 8-Aug-07 (METAS, No. 217-00719) 29-Mar-07 (METAS, No. 217-00671) 8-Aug-07 (METAS, No. 217-00720) 4-Jan-07 (SPEAG, No. ES3-3013_Jan07)	Mar-08 Mar-08 Mar-08 Aug-08 Mar-08 Aug-08 Jan-08
Calibration Equipment used (M&Calibration Equipment used (M&Calibr	ID # GB41293874 MY41495277 MY41498087 SN: S5054 (3c) SN: S5086 (20b) SN: S5129 (30b)	29-Mar-07 (METAS, No. 217-00670) 29-Mar-07 (METAS, No. 217-00670) 29-Mar-07 (METAS, No. 217-00670) 8-Aug-07 (METAS, No. 217-00719) 29-Mar-07 (METAS, No. 217-00671) 8-Aug-07 (METAS, No. 217-00720)	Mar-08 Mar-08 Mar-08 Aug-08 Mar-08 Aug-08
Calibration Equipment used (M&) Primary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator Reference Probe ES3DV2 DAE4	ID # GB41293874 MY41495277 MY41498087 SN: S5054 (3c) SN: S5086 (20b) SN: S5129 (30b) SN: 3013	29-Mar-07 (METAS, No. 217-00670) 29-Mar-07 (METAS, No. 217-00670) 29-Mar-07 (METAS, No. 217-00670) 8-Aug-07 (METAS, No. 217-00719) 29-Mar-07 (METAS, No. 217-00671) 8-Aug-07 (METAS, No. 217-00720) 4-Jan-07 (SPEAG, No. ES3-3013_Jan07) 20-Apr-07 (SPEAG, No. DAE4-654_Apr07)	Mar-08 Mar-08 Mar-08 Aug-08 Mar-08 Aug-08 Jan-08
Calibration Equipment used (M& Primary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator Reference Probe ES3DV2 DAE4	ID # GB41293874 MY41495277 MY41498087 SN: S5054 (3c) SN: S5086 (20b) SN: S5129 (30b) SN: 3013 SN: 654	29-Mar-07 (METAS, No. 217-00670) 29-Mar-07 (METAS, No. 217-00670) 29-Mar-07 (METAS, No. 217-00670) 8-Aug-07 (METAS, No. 217-00719) 29-Mar-07 (METAS, No. 217-00671) 8-Aug-07 (METAS, No. 217-00720) 4-Jan-07 (SPEAG, No. ES3-3013_Jan07) 20-Apr-07 (SPEAG, No. DAE4-654_Apr07) Check Date (in house)	Mar-08 Mar-08 Mar-08 Aug-08 Mar-08 Aug-08 Jan-08 Apr-08
Calibration Equipment used (M& Primary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator Reference Probe ES3DV2 DAE4 Secondary Standards RF generator HP 8648C	ID # GB41293874 MY41495277 MY41498087 SN: S5054 (3c) SN: S5086 (20b) SN: S5129 (30b) SN: 3013 SN: 654 ID #	29-Mar-07 (METAS, No. 217-00670) 29-Mar-07 (METAS, No. 217-00670) 29-Mar-07 (METAS, No. 217-00670) 8-Aug-07 (METAS, No. 217-00719) 29-Mar-07 (METAS, No. 217-00671) 8-Aug-07 (METAS, No. 217-00720) 4-Jan-07 (SPEAG, No. ES3-3013_Jan07) 20-Apr-07 (SPEAG, No. DAE4-654_Apr07)	Mar-08 Mar-08 Mar-08 Aug-08 Mar-08 Aug-08 Jan-08 Apr-08
Calibration Equipment used (M&Calibration Equipment used (M&Calibr	ID # GB41293874 MY41495277 MY41498087 SN: S5054 (3c) SN: S5086 (20b) SN: S5129 (30b) SN: 3013 SN: 654 ID # US3642U01700	29-Mar-07 (METAS, No. 217-00670) 29-Mar-07 (METAS, No. 217-00670) 29-Mar-07 (METAS, No. 217-00670) 8-Aug-07 (METAS, No. 217-00719) 29-Mar-07 (METAS, No. 217-00671) 8-Aug-07 (METAS, No. 217-00720) 4-Jan-07 (SPEAG, No. ES3-3013_Jan07) 20-Apr-07 (SPEAG, No. DAE4-654_Apr07) Check Date (in house) 4-Aug-99 (SPEAG, in house check Oct-07)	Mar-08 Mar-08 Mar-08 Aug-08 Mar-08 Aug-08 Jan-08 Apr-08 Scheduled Check In house check: Oct-09
Calibration Equipment used (M& Primary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator Reference Probe ES3DV2 DAE4 Secondary Standards RF generator HP 8648C Network Analyzer HP 8753E	ID # GB41293874 MY41495277 MY41498087 SN: S5054 (3c) SN: S5086 (20b) SN: S5129 (30b) SN: 3013 SN: 654 ID # US3642U01700 US37390585	29-Mar-07 (METAS, No. 217-00670) 29-Mar-07 (METAS, No. 217-00670) 29-Mar-07 (METAS, No. 217-00670) 8-Aug-07 (METAS, No. 217-00719) 29-Mar-07 (METAS, No. 217-00719) 8-Aug-07 (METAS, No. 217-00720) 4-Jan-07 (SPEAG, No. ES3-3013_Jan07) 20-Apr-07 (SPEAG, No. DAE4-654_Apr07) Check Date (in house) 4-Aug-99 (SPEAG, in house check Oct-07) 18-Oct-01 (SPEAG, in house check Oct-07)	Mar-08 Mar-08 Mar-08 Aug-08 Mar-08 Aug-08 Jan-08 Apr-08 Scheduled Check In house check: Oct-09 In house check: Oct-08
Calibration Equipment used (M& Primary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator Reference Probe ES3DV2 DAE4 Secondary Standards RF generator HP 8648C Network Analyzer HP 8753E Calibrated by:	ID # GB41293874 MY41495277 MY41498087 SN: S5054 (3c) SN: S5086 (20b) SN: S5129 (30b) SN: 3013 SN: 654 ID # US3642U01700 US37390585 Name	29-Mar-07 (METAS, No. 217-00670) 29-Mar-07 (METAS, No. 217-00670) 29-Mar-07 (METAS, No. 217-00670) 8-Aug-07 (METAS, No. 217-00719) 29-Mar-07 (METAS, No. 217-00671) 8-Aug-07 (METAS, No. 217-00720) 4-Jan-07 (SPEAG, No. ES3-3013_Jan07) 20-Apr-07 (SPEAG, No. DAE4-654_Apr07) Check Date (in house) 4-Aug-99 (SPEAG, in house check Oct-07) 18-Oct-01 (SPEAG, in house check Oct-07)	Mar-08 Mar-08 Mar-08 Aug-08 Mar-08 Aug-08 Jan-08 Apr-08 Scheduled Check In house check: Oct-09 In house check: Oct-08

Issued: November 15, 2007

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





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Service suisse d'étalonnage
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Swiss Calibration Service

Accreditation No.: SCS 108

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Glossary:

TSL tissue simulating liquid NORMx,y,z sensitivity in free space

ConF sensitivity in TSL / NORMx,y,z
DCP diode compression point
Polarization φ rotation around probe axis

Polarization 9 9 rotation around an axis that is in the plane normal to probe axis (at

measurement center), i.e., 9 = 0 is normal to probe axis

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) IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005

Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization 9 = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not effect the E²-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,y,z * frequency_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep (no uncertainty required). DCP does not depend on frequency nor media.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.

Certificate No: ET3-1679_Nov07 Page 2 of 9

ET3DV6 \$N:1679 November 15, 2007

Probe ET3DV6

SN:1679

Manufactured: May 7, 2002

Last calibrated: November 16, 2006
Recalibrated: November 15, 2007

Calibrated for DASY Systems

(Note: non-compatible with DASY2 system!)

Certificate No: ET3-1679_Nov07

DASY - Parameters of Probe: ET3DV6 SN:1679

Sensitivity in Free Space ^A			Diode C	ompressio	nB
NormX	1.91 ± 10.1%	$\mu V/(V/m)^2$	DCP X	93 mV	
NormY	1.86 ± 10.1%	$\mu V/(V/m)^2$	DCP Y	93 mV	
NormZ	1.90 ± 10.1%	μ V/(V/m) ²	DCP Z	93 mV	

Sensitivity in Tissue Simulating Liquid (Conversion Factors)

Please see Page 8.

Boundary Effect

TSL 900 MHz Typical SAR gradient: 5 % per mm

Sensor Center	to Phantom Surface Distance	3.7 mm	4.7 mm
SAR _{be} [%]	Without Correction Algorithm	10.7	6.6
SAR _{be} [%]	With Correction Algorithm	8.0	0.2

TSL 1810 MHz Typical SAR gradient: 10 % per mm

Sensor Center to Phantom Surface Distance		3.7 mm	4.7 mm
SAR _{be} [%]	Without Correction Algorithm	11.1	7.3
SAR _{be} [%]	With Correction Algorithm	0.3	0.6

Sensor Offset

Probe Tip to Sensor Center 2.7 mm

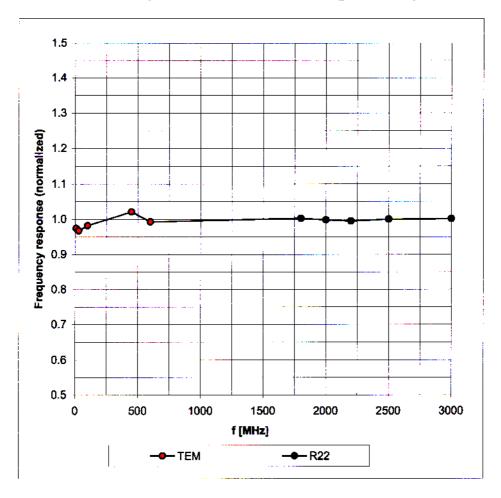
The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

^A The uncertainties of NormX,Y,Z do not affect the E²-field uncertainty inside TSL (see Page 8).

⁸ Numerical linearization parameter: uncertainty not required.

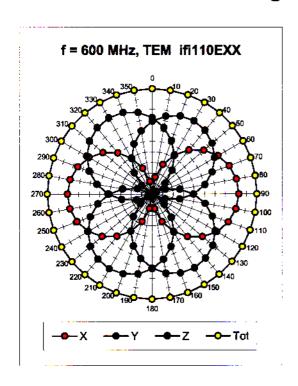
Frequency Response of E-Field

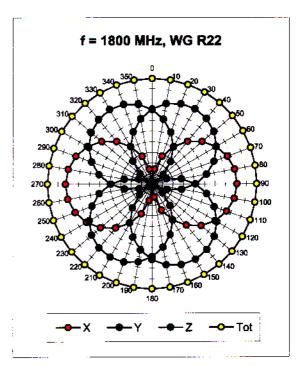
(TEM-Cell:ifi110 EXX, Waveguide: R22)

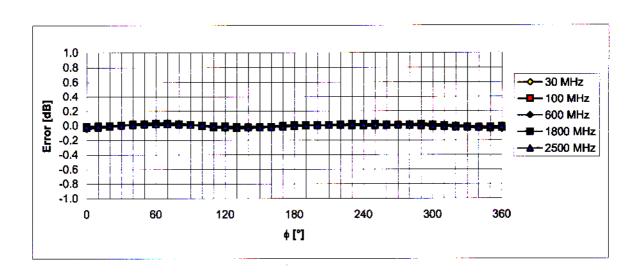


Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$



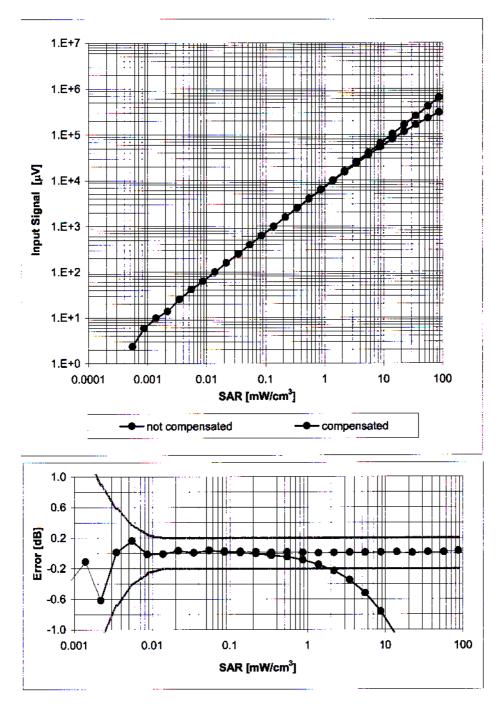




Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

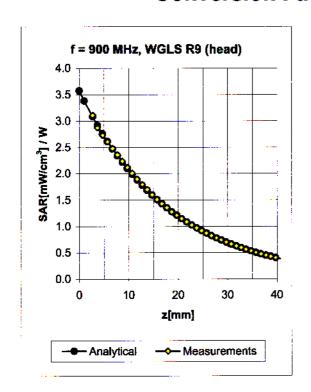
Dynamic Range f(SAR_{head})

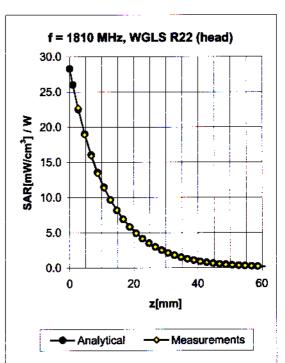
(Waveguide R22, f = 1800 MHz)



Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Conversion Factor Assessment



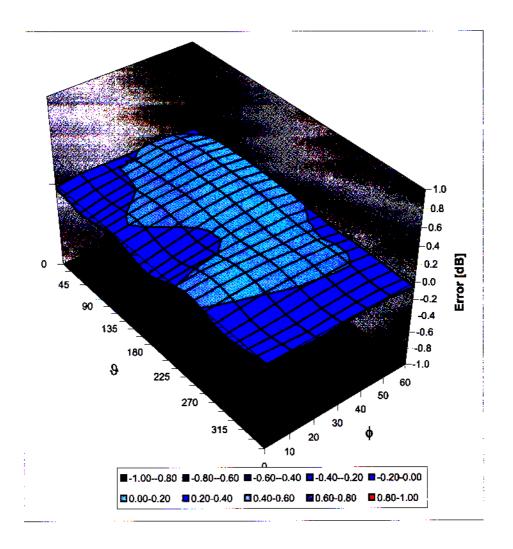


f [MHz]	Validity (MHz) ^c	TSL	Permittivity	Conductivity	Alpha	Depth	ConvF Uncertainty
900	± 50 / ± 100	Head	41.5 ± 5%	0.97 ± 5%	0.56	2.28	6.69 ± 11.0% (k=2)
1810	± 50 / ± 100	Head	40.0 ± 5%	1.40 ± 5%	0.60	2.09	5.36 ± 11.0% (k=2)
1950	± 50 / ± 100	Head	40.0 ± 5%	1.40 ± 5%	0.63	2.09	5.06 ± 11.0% (k=2)
2450	± 50 / ± 100	Head	39.2 ± 5%	1.80 ± 5%	0.63	2.30	4.72 ± 11.8% (k=2)
900	± 50 / ± 100	Body	55.0 ± 5%	1.05 ± 5%	0.64	2.11	6.18 ± 11.0% (k=2)
1810	± 50 / ± 100	Body	53.3 ± 5%	1.52 ± 5%	0.56	2.70	4.80 ± 11.0% (k=2)
1950	± 50 / ± 100	Body	53.3 ± 5%	1.52 ± 5%	0.57	2.54	4.51 ± 11.0% (k=2)
2450	± 50 / ± 100	Body	52.7 ± 5%	1.95 ± 5%	0.62	2.35	4.09 ± 11.8% (k=2)

^c The validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2). The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

Deviation from Isotropy in HSL

Error (ϕ , ϑ), f = 900 MHz



Uncertainty of Spherical Isotropy Assessment: ± 2.6% (k=2)



Attachment 4-1 – System Validation Dipole – D900V2, S/N: 153 Calibration Data

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





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Client

JQA (MTT)

Certificate No: D900V2-153_Nov07

Accreditation No.: SCS 108

CALIBRATION CERTIFICATE

Object

D900V2 - SN: 153

Calibration procedure(s)

QA CAL-05.v7

Calibration procedure for dipole validation kits

Calibration date:

November 12, 2007

Condition of the calibrated item

In Tolerance

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID#	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Power meter EPM-442A	GB37480704	04-Oct-07 (METAS, No. 217-00736)	Oct-08
Power sensor HP 8481A	US37292783	04-Oct-07 (METAS, No. 217-00736)	Oct-08
Reference 20 dB Attenuator	SN: 5086 (20g)	07-Aug-07 (METAS, No 217-00718)	Aug-08
Reference 10 dB Attenuator	SN: 5047.2 (10r)	07-Aug-07 (METAS, No 217-00718)	Aug-08
Reference Probe ET3DV6 (HF)	SN 1507	26-Oct-07 (SPEAG, No. ET3-1507_Oct07)	Oct-08
DAE4	SN 601	30-Jan-07 (SPEAG, No. DAE4-601_Jan07)	Jan-08
Secondary Standards	ID#	Check Date (in house)	Scheduled Check
Power sensor HP 8481A	MY41092317	18-Oct-02 (SPEAG, in house check Oct-07)	In house check: Oct-09
RF generator R&S SMT-06	100005	04-Aug-99 (SPEAG, in house check Oct-07)	In house check: Oct-09
Network Analyzer HP 8753E	US37390585 S4206	18-Oct-01 (SPEAG, in house check Oct-07)	In house check: Oct-08
	Name	Function	Signature
Calibrated by:	Mike Meill	Laboratory Technician	fet eith
Approved by:	Katja Pokovic	Technical Manager	16 114 -

Issued: November 14, 2007

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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) IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
- 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 connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

Certificate No: D900V2-153_Nov07 Page 2 of 9

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 V4.9	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	900 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.5	0.97 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	39.6 ± 6 %	0.94 mho/m ± 6 %
Head TSL temperature during test	(21.3 ± 0.2) °C		

SAR result with Head TSL

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.76 mW / g
SAR normalized	normalized to 1W	11.0 mW/g
SAR for nominal Head TSL parameters ¹	normalized to 1W	10.9 mW /g ± 17.0 % (k=2)

SAR averaged over 10 cm³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	1.77 mW / g
SAR normalized	normalized to 1W	7.08 mW / g
SAR for nominal Head TSL parameters ¹	normalized to 1W	7.00 mW /g ± 16.5 % (k=2)

Certificate No: D900V2-153_Nov07

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

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	55.0	1.05 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	54.3 ± 6 %	1.06 mho/m ± 6 %
Body TSL temperature during test	(21.6 ± 0.2) °C		

SAR result with Body TSL

SAR averaged over 1 cm³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	2.81 mW / g
SAR normalized	normalized to 1W	11.2 mW / g
SAR for nominal Body TSL parameters ²	normalized to 1W	11.1 mW / g ± 17.0 % (k=2)

SAR averaged over 10 cm³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	1.82 mW / g
SAR normalized	normalized to 1W	7.28 mW / g
SAR for nominal Body TSL parameters ²	normalized to 1W	7.21 mW / g ± 16.5 % (k=2)

Certificate No: D900V2-153_Nov07

² Correction to nominal TSL parameters according to d), chapter "SAR Sensitivities"

Appendix

Antenna Parameters with Head TSL

Impedance, transformed to feed point	49.1 Ω - 7.1 jΩ
Return Loss	- 22.8 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	45.0 Ω - 8.7 jΩ
Return Loss	- 19.6 dB

General Antenna Parameters and Design

	
Electrical Delay (one direction)	1.393 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 1, 2002

Certificate No: D900V2-153_Nov07 Page 5 of 9

DASY4 Validation Report for Head TSL

Date/Time: 07.11.2007 15:53:46

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 900 MHz; Type: D900V2; Serial: D900V2 - SN:153

Communication System: CW; Frequency: 900 MHz; Duty Cycle: 1:1

Medium: HSL 900 MHz;

Medium parameters used: f = 900 MHz; $\sigma = 0.939$ 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(5.93, 5.93, 5.93); Calibrated: 26.10.2007

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn601; Calibrated: 30.01.2007

Phantom: Flat Phantom 4.9L; Type: QD000P49AA

Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

Pin = 250 mW; d = 15 mm/Zoom Scan (7x7x7)/Cube 0:

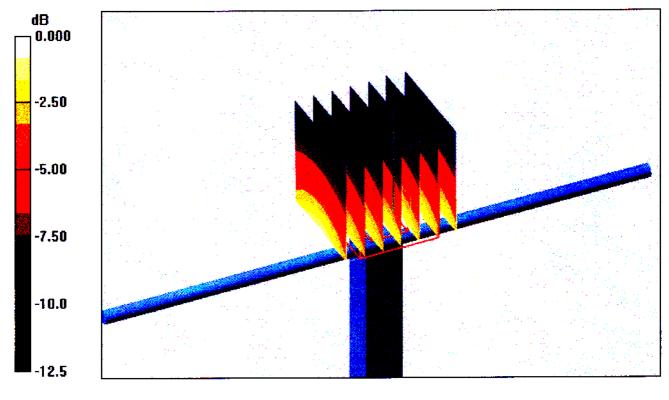
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 58.4 V/m; Power Drift = 0.031 dB

Peak SAR (extrapolated) = 4.14 W/kg

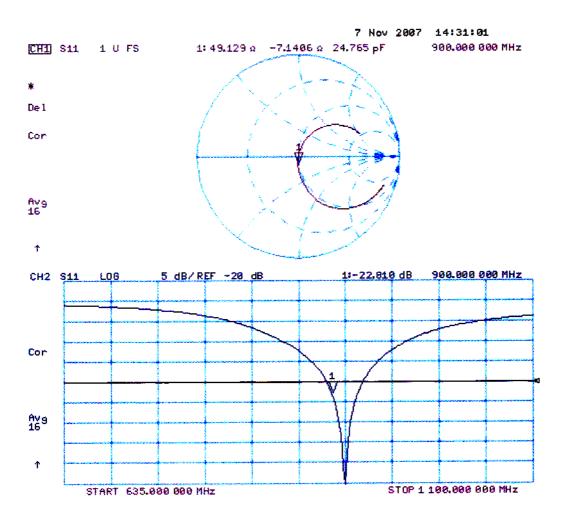
SAR(1 g) = 2.76 mW/g; SAR(10 g) = 1.77 mW/g

Maximum value of SAR (measured) = 3.01 mW/g



0 dB = 3.01 mW/g

Impedance Measurement Plot for Head TSL



DASY4 Validation Report for Body TSL

Date/Time: 12.11.2007 14:43:14

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 900 MHz; Type: D900V2; Serial: D900V2 - SN:153

Communication System: CW; Frequency: 900 MHz; Duty Cycle: 1:1

Medium: MSL900;

Medium parameters used: f = 900 MHz; $\sigma = 1.06 \text{ mho/m}$; $\epsilon_r = 54.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1507 (HF); ConvF(5.57, 5.57, 5.57); Calibrated: 26.10.2007

• Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn601; Calibrated: 30.01.2007

Phantom: Flat Phantom 4.9L; Type: QD000P49AA

Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

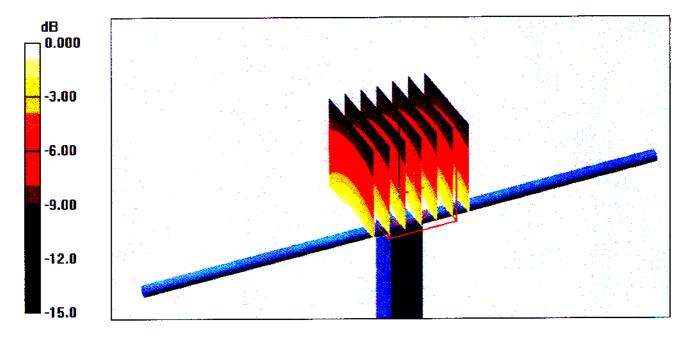
Pin=250mW/Zoom Scan (7x7x7)/Cube 0:

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

Reference Value = 56.1 V/m; Power Drift = -0.002 dB

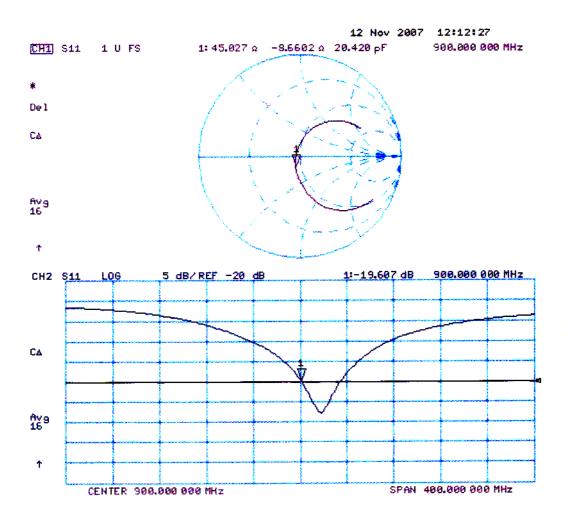
Peak SAR (extrapolated) = 4.05 W/kg

SAR(1 g) = 2.81 mW/g; SAR(10 g) = 1.82 mW/gMaximum value of SAR (measured) = 3.03 mW/g



0 dB = 3.03 mW/g

Impedance Measurement Plot for Body TSL





Attachment 4-2 – System Validation Dipole – D1800V2, S/N: 2d038 Calibration Data

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Client

JQA (MTT)

Certificate No: D1800V2-2d038 Nov07

Accreditation No.: SCS 108

CALIBRATION CERTIFICATE D1800V2 - SN: 2d038 Object QA CAL-05.v7 Calibration procedure(s) Calibration procedure for dipole validation kits November 13, 2007 Calibration date: Condition of the calibrated item In Tolerance This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate. All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%. Calibration Equipment used (M&TE critical for calibration) Scheduled Calibration ID# Cal Date (Calibrated by, Certificate No.) **Primary Standards** 04-Oct-07 (METAS, No. 217-00736) Oct-08 GB37480704 Power meter EPM-442A Oct-08 Power sensor HP 8481A US37292783 04-Oct-07 (METAS, No. 217-00736) Reference 20 dB Attenuator SN: 5086 (20g) 07-Aug-07 (METAS, No 217-00718) Aug-08 Aug-08 Reference 10 dB Attenuator SN: 5047.2 (10r) 07-Aug-07 (METAS, No 217-00718) 26-Oct-07 (SPEAG, No. ET3-1507_Oct07) Oct-08 Reference Probe ET3DV6 (HF) SN: 1507 Jan-08 SN 601 30-Jan-07 (SPEAG, No. DAE4-601_Jan07) DAE4 Scheduled Check ID# Check Date (in house) Secondary Standards In house check: Oct-08 MY41092317 18-Oct-02 (SPEAG, in house check Oct-07) Power sensor HP 8481A In house check: Oct-09 4-Aug-99 (SPEAG, in house check Oct-07) 100005 RF generator R&S SMT-06 18-Oct-01 (SPEAG, in house check Oct-07) In house check: Oct-08 Network Analyzer HP 8753E US37390585 S4206 Function Signature Name Claudio Leubler **Laboratory Technician** Calibrated by: Technical Manager Katja Pokovic Approved by: Issued: November 15, 2007

ory.

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Glossary:

TSL

tissue simulating liquid

ConvF N/A sensitivity in TSL / NORM x,y,z 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) IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
- 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 connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

Certificate No: D1800V2-2d038_Nov07

Page 2 of 9

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
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	1800 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	38.8 ± 6 %	1.39 mho/m ± 6 %
Head TSL temperature during test	(22.0 ± 0.2) °C		

SAR result with Head TSL

SAR averaged over 1 cm³ (1 g) of Head TSL	condition	
SAR measured	250 mW input power	9.56 mW /g
SAR normalized	normalized to 1W	38.2 mW /g
SAR for nominal Head TSL parameters ¹	normalized to 1W	37.7 mW / g ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	5.06 mW /g
SAR normalized	normalized to 1W	20.2 mW /g
SAR for nominal Head TSL parameters ¹	normalized to 1W	20.0 mW / g ± 16.5 % (k=2)

Certificate No: D1800V2-2d038_Nov07

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

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	53.3	1.52 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	53.5 ± 6 %	1.47 mho/m ± 6 %
Body TSL temperature during test	(21.5 ± 0.2) °C		_

SAR result with Body TSL

SAR averaged over 1 cm³ (1 g) of Body TSL	condition	
SAR measured	250 mW input power	9.53 mW /g
SAR normalized	normalized to 1W	38.1 mW /g
SAR for nominal Body TSL parameters ²	normalized to 1W	38.9 mW / g ± 17.0 % (k=2)

SAR averaged over 10 cm³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	5.11 mW /g
SAR normalized	normalized to 1W	20.4 mW /g
SAR for nominal Body TSL parameters ²	normalized to 1W	20.6 mW / g ± 16.5 % (k=2)

Certificate No: D1800V2-2d038_Nov07

² Correction to nominal TSL parameters according to d), chapter "SAR Sensitivities"

Appendix

Antenna Parameters with Head TSL

Impedance, transformed to feed point	47.7 jΩ - 4.5 jΩ
Return Loss	- 25.7 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	43.7 jΩ - 4.0 jΩ
Return Loss	- 21.9 dB

General Antenna Parameters and Design

ical Delay (one direction)	1.196 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	February 28, 2002

Certificate No: D1800V2-2d038_Nov07

DASY4 Validation Report for Head TSL

Date/Time: 05.11.2007 12:17:49

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: SN:2d038

Communication System: CW; Frequency: 1800 MHz; Duty Cycle: 1:1

Medium: HSL U10 BB;

Medium parameters used: f = 1800 MHz; $\sigma = 1.39 \text{ mho/m}$; $\epsilon_r = 38.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1507 (HF); ConvF(4.99, 4.99, 4.99); Calibrated: 26.10.2007

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn601; Calibrated: 30.01.2007

Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA;;

Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

Pin = 250 mW; d = 10 mm/Zoom Scan (7x7x7)/Cube 0:

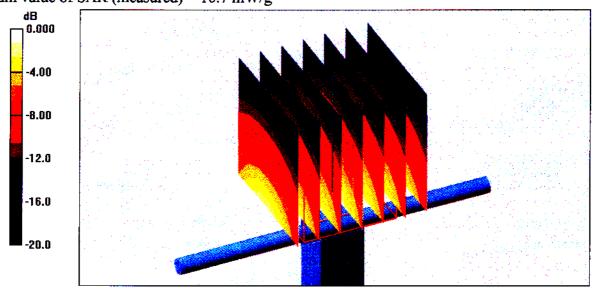
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 93.2 V/m; Power Drift = 0.014 dB

Peak SAR (extrapolated) = 16.6 W/kg

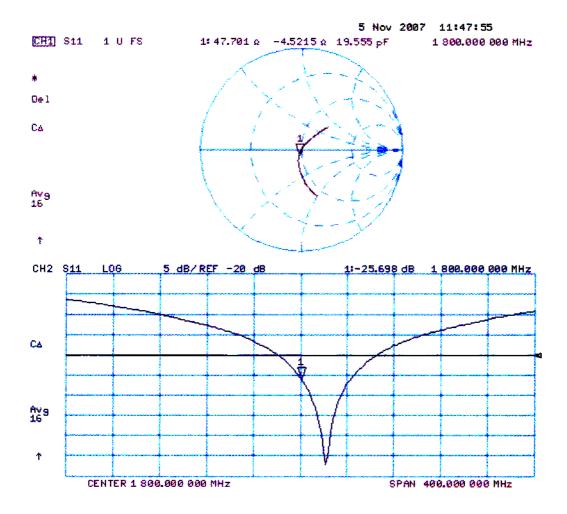
SAR(1 g) = 9.56 mW/g; SAR(10 g) = 5.06 mW/g

Maximum value of SAR (measured) = 10.7 mW/g



0 dB = 10.7 mW/g

Impedance Measurement Plot for Head TSL



DASY4 Validation Report for Body TSL

Date/Time: 13.11.2007 11:43:39

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN:2d038

Communication System: CW; Frequency: 1800 MHz; Duty Cycle: 1:1

Medium: MSL U10 BB;

Medium parameters used: f = 1800 MHz; $\sigma = 1.47 \text{ mho/m}$; $\varepsilon_r = 53.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

• Probe: ET3DV6 - SN1507 (HF); ConvF(4.56, 4.56, 4.56); Calibrated: 26.10.2007

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn601; Calibrated: 30.01.2007

Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA;;

Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, VI.8 Build 172

Pin = 250 mW; d = 10 mm/Zoom Scan (7x7x7)/Cube 0:

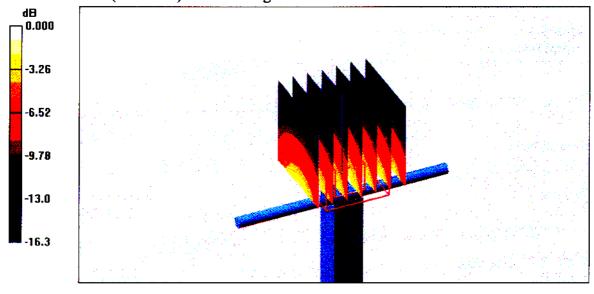
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 91.3 V/m; Power Drift = -0.012 dB

Peak SAR (extrapolated) = 16.4 W/kg

SAR(1 g) = 9.53 mW/g; SAR(10 g) = 5.11 mW/g

Maximum value of SAR (measured) = 10.7 mW/g



0 dB = 10.7 mW/g

Impedance Measurement Plot for Body TSL

