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Appendix

1. Photographs of Test Setup



Fig.1 Photograph of the SAR measurement System

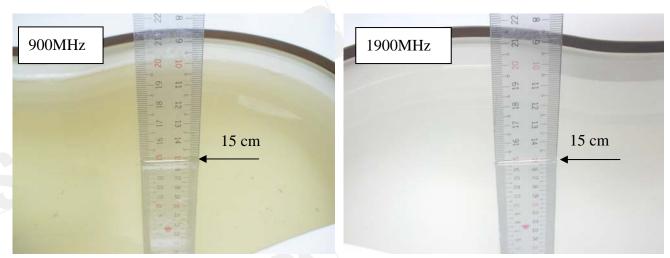


Fig.2.1 Photograph of the Tissue Simulant Fluid liquid depth 15cm for Left-head Side

Fig.2.2 Photograph of the Tissue Simulant Fluid liquid depth 15cm for Right-head Side

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Fig.2.3 Photograph of the Tissue Simulant Fluid Fig.2.4 Photograph of the Tissue Simulant Fluid liquid depth 15cm for Flat (Body) Fluid liquid depth 15cm for Flat (Body)

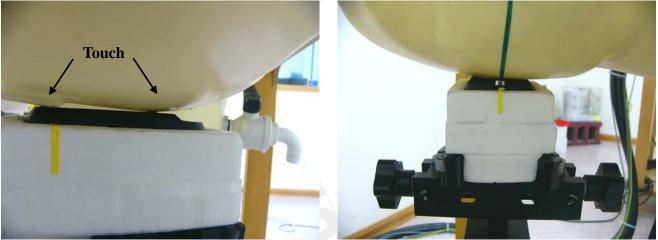


Fig.3 Right Head Section / Cheek-Touch Position

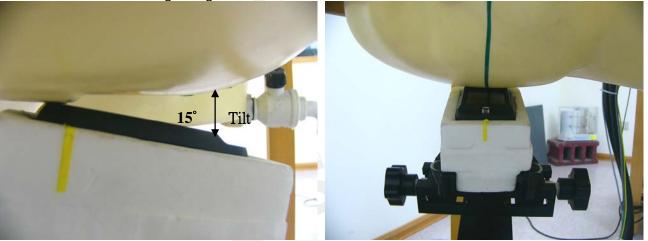


Fig.4 Right Head Section / Ear-Tilt Position(15°)

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Fig.5 Left Head Section / Cheek-Touch Position

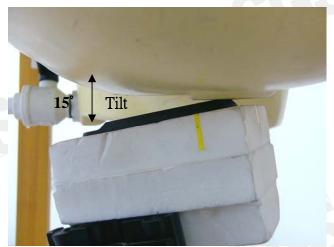




Fig.6 Left Head Section / Ear-Tilt Position(15°)

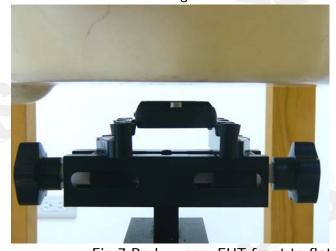




Fig.7 Body worn- EUT front to flat phantom (testing in GPRS Mode)

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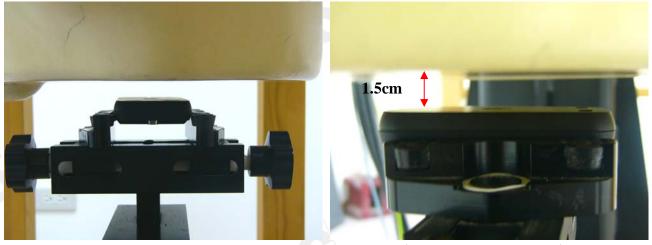


Fig.8 Body worn- EUT back to flat phantom (testing in GPRS Mode)

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2. Photographs of the EUT



Fig.9 Front view of device



Fig.10 Back view of device

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Fig.11 Left view of device

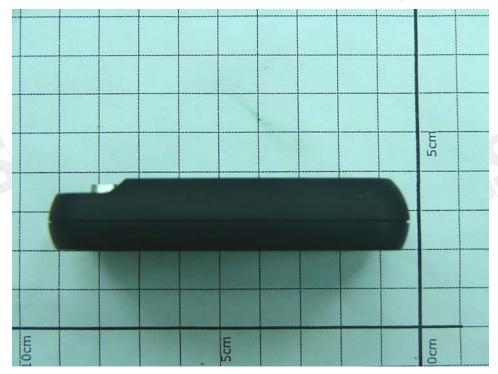


Fig.12 Right view of device

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3. Photographs of the Accessories of EUT



Fig.13 Front view of Battery



Fig.14 Back view of Battery

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Fig.15 EUT Connected Charger

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4. DAE & Probe Calibration certificate

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





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

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

Client

SGS (Auden)

Certificate No: DAE4-547_Oct07

Accreditation No.: SCS 108

CALIBRATION CERTIFICATE Object DAE4 - SD 000 D04 BA - SN: 547 QA CAL-06.v12 Calibration procedure(s) Calibration procedure for the data acquisition electronics (DAE) October 1, 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 Fluke Process Calibrator Type 702 SN: 6295803 13-Oct-06 (Elcal AG, No: 5492) Oct-07 Keithley Multimeter Type 2001 SN: 0810278 03-Oct-06 (Elcal AG, No: 5478) Oct-07 Secondary Standards Check Date (in house) Scheduled Check Calibrator Box V1.1 SE UMS 006 AB 1004 25-Jun-07 (SPEAG, in house check) In house check Jun-08 Name Function Calibrated by: Dominique Steffen Technician Approved by: Fin Bomholt R&D Director Issued: October 1, 2007 This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: DAE4-547_Oct07

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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

SGS (Auden)

Accreditation No.: SCS 108

| CALIBRATION (| CERTIFICAT | E | |
|---|---|--|--|
| Object | EX3DV3 - SN:3 | 526 | |
| Calibration procedure(s) | QA CAL-01.v6 Calibration prod | cedure for dosimetric E-field probes | |
| Calibration date: | August 29, 2007 | 7 | |
| Condition of the calibrated item | In Tolerance | | |
| The measurements and the unce | rtainties with confidence | utional standards, which realize the physical units of probability are given on the following pages and are ory facility: environment temperature (22 ± 3)°C and | e part of the certificate. |
| Primary Standards | ID# | Cal Date (Calibrated by, Certificate No.) | Scheduled Calibration |
| Power meter E4419B | GB41293874 | 29-Mar-07 (METAS, No. 217-00670) | Mar-08 |
| Power sensor E4412A | MY41495277 | 29-Mar-07 (METAS, No. 217-00670) | Mar-08 |
| Power sensor E4412A | MY41498087 | 29-Mar-07 (METAS, No. 217-00670) | Mar-08 |
| Reference 3 dB Attenuator | SN: S5054 (3c) | 8-Aug-07 (METAS, No. 217-00719) | Aug-08 |
| Reference 20 dB Attenuator | SN: S5086 (20b) | 29-Mar-07 (METAS, No. 217-00671) | Mar-08 |
| | SN: S5129 (30b) | 8-Aug-07 (METAS, No. 217-00720) | Aug-08 |
| Reference 30 dB Attenuator | ON 2012 | 4-Jan-07 (SPEAG, No. ES3-3013 Jan07) | |
| | SN: 3013 | 4-Jan-07 (SFEAG, NO. ESS-3013 Jan07) | Jan-08 |
| Reference Probe ES3DV2 | SN: 3013 SN: 654 | 20-Apr-07 (SPEAG, No. DAE4-654_Apr07) | Apr-08 |
| Reference Probe ES3DV2 DAE4 | | 20-Apr-07 (SPEAG, No. DAE4-654_Apr07) | Apr-08 |
| Reference Probe ES3DV2 DAE4 Secondary Standards | SN: 654 | 20-Apr-07 (SPEAG, No. DAE4-654_Apr07) Check Date (in house) | Apr-08 Scheduled Check |
| Reference Probe ES3DV2 DAE4 Secondary Standards RF generator HP 8648C | SN: 654 | 20-Apr-07 (SPEAG, No. DAE4-654_Apr07) | Apr-08 |
| Reference 30 dB Attenuator Reference Probe ES3DV2 DAE4 Secondary Standards RF generator HP 8648C Network Analyzer HP 8753E | SN: 654 ID # US3642U01700 | 20-Apr-07 (SPEAG, No. DAE4-654_Apr07) Check Date (in house) 4-Aug-99 (SPEAG, in house check Nov-05) | Apr-08 Scheduled Check In house check: Nov-07 |
| Reference Probe ES3DV2 DAE4 Secondary Standards RF generator HP 8648C Network Analyzer HP 8753E | SN: 654 ID # US3642U01700 US37390585 | 20-Apr-07 (SPEAG, No. DAE4-654_Apr07) Check Date (in house) 4-Aug-99 (SPEAG, in house check Nov-05) 18-Oct-01 (SPEAG, in house check Oct-06) | Apr-08 Scheduled Check In house check: Nov-07 In house check: Oct-07 |
| Reference Probe ES3DV2 DAE4 Secondary Standards RF generator HP 8648C | SN: 654 ID # US3642U01700 US37390585 Name | 20-Apr-07 (SPEAG, No. DAE4-654_Apr07) Check Date (in house) 4-Aug-99 (SPEAG, in house check Nov-05) 18-Oct-01 (SPEAG, in house check Oct-06) Function | Apr-08 Scheduled Check In house check: Nov-07 In house check: Oct-07 |

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Multilateral Agreement for the recognition of calibration certificates

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., $\vartheta = 0$ 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

 ib) 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.

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EX3DV3 SN:3526

August 29, 2007

Probe EX3DV3

SN:3526

Manufactured:

March 19, 2004

Last calibrated:

August 25, 2006 August 29, 2007

Recalibrated:

Calibrated for DASY Systems

(Note: non-compatible with DASY2 system!)

Certificate No: EX3-3526_Aug07

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EX3DV3 SN:3526

August 29, 2007

DASY - Parameters of Probe: EX3DV3 SN:3526

| Sensitivity | in | Free | SpaceA |
|-------------|-----|------|--------|
| Sensitivity | 111 | LIEE | Space |

Diode Compression^B

| NormX | 0.991 ± 10.1% | $\mu V/(V/m)^2$ | DCP X | 97 mV |
|-------|---------------|-----------------|-------|-------|
| NormY | 0.807 ± 10.1% | $\mu V/(V/m)^2$ | DCP Y | 96 mV |
| NormZ | 0.876 ± 10.1% | $\mu V/(V/m)^2$ | DCP Z | 97 mV |

Sensitivity in Tissue Simulating Liquid (Conversion Factors)

Please see Page 8.

Boundary Effect

TSL

900 MHz Typical SAR gradient: 5 % per mm

| Sensor Cente | er to Phantom Surface Distance | 2.0 mm | 3.0 mm |
|-----------------------|--------------------------------|--------|--------|
| SAR _{be} [%] | Without Correction Algorithm | 1.5 | 0.5 |
| SAR _{be} [%] | With Correction Algorithm | 0.3 | 0.4 |

TSL 1810 MHz Typical SAR gradient: 10 % per mm

| Sensor Cente | er to Phantom Surface Distance | 2.0 mm | 3.0 mm |
|-----------------------|--------------------------------|--------|--------|
| SAR _{be} [%] | Without Correction Algorithm | 3.0 | 1.5 |
| SAR _{be} [%] | With Correction Algorithm | 0.2 | 0.1 |

Sensor Offset

Probe Tip to Sensor Center

1.0 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%.

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

^B Numerical linearization parameter; uncertainty not required.



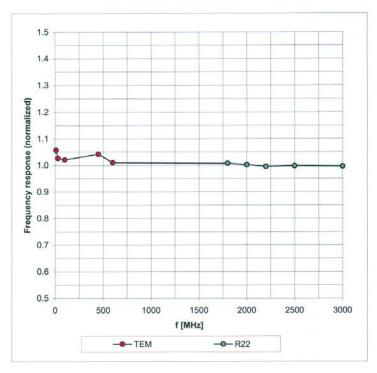
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EX3DV3 SN:3526

August 29, 2007

Frequency Response of E-Field

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



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

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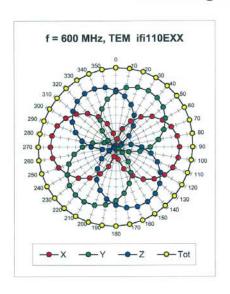


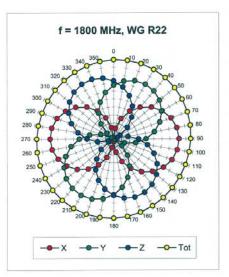
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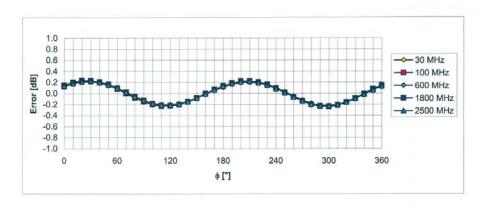
EX3DV3 SN:3526

August 29, 2007

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







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

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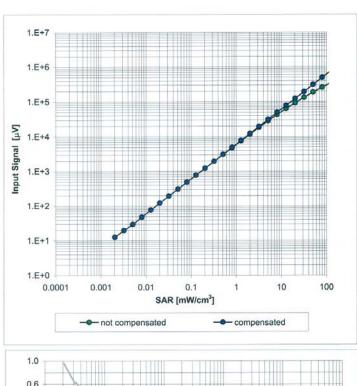
Page: 18 of 25

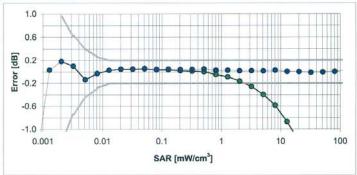
EX3DV3 SN:3526

August 29, 2007

Dynamic Range f(SAR_{head})

(Waveguide R22, f = 1800 MHz)





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

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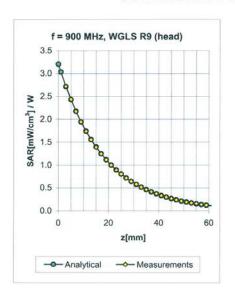


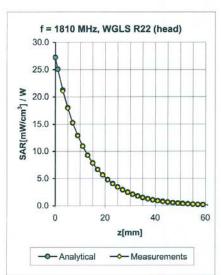
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EX3DV3 SN:3526

August 29, 2007

Conversion Factor Assessment





| | Validity [MHz] ^C | 701 | | | | - " | | |
|---------|-----------------------------|------|----------------|----------------|-------|-------|-------|---------------|
| f [MHz] | validity [wiriz] | TSL | Permittivity | Conductivity | Alpha | Depth | Convi | Uncertainty |
| 900 | ± 50 / ± 100 | Head | $41.5 \pm 5\%$ | $0.97 \pm 5\%$ | 0.50 | 0.80 | 11.48 | ± 11.0% (k=2) |
| 1810 | ± 50 / ± 100 | Head | 40.0 ± 5% | 1.40 ± 5% | 0.15 | 1.32 | 9.30 | ± 11.0% (k=2) |
| 1950 | \pm 50 / \pm 100 | Head | 40.0 ± 5% | 1.40 ± 5% | 0.22 | 1.01 | 8.91 | ± 11.0% (k=2) |
| 2450 | ± 50 / ± 100 | Head | 39.2 ± 5% | 1.80 ± 5% | 0.34 | 1.00 | 8.42 | ± 11.8% (k=2) |
| | | | | | | | | |
| 900 | ± 50 / ± 100 | Body | $55.0 \pm 5\%$ | 1.05 ± 5% | 0.50 | 0.80 | 10.93 | ± 11.0% (k=2) |
| 1810 | ± 50 / ± 100 | Body | 53.3 ± 5% | $1.52 \pm 5\%$ | 0.16 | 1.28 | 9.04 | ± 11.0% (k=2) |
| 1950 | ± 50 / ± 100 | Body | 53.3 ± 5% | 1.52 ± 5% | 0.15 | 1.43 | 8.67 | ± 11.0% (k=2) |
| 2450 | ± 50 / ± 100 | Body | 52.7 ± 5% | 1.95 ± 5% | 0.38 | 1.00 | 8.08 | ± 11.8% (k=2) |

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 $^{^{\}mathrm{C}}$ The validity of \pm 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.



5. Uncertainty Analysis

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DASY4 Uncertainty Budget According to IEEE P1528 [1]

| | | | | | | w | | |
|------------------------------|--------------|-------|------------|---------|---------|---------------|--------------|-----------|
| acces of a | Uncertainty | Prob. | Div. | (c_i) | (c_i) | Std. Unc. | Std. Unc. | (v_i) |
| Error Description | value | Dist. | | 1g | 10g | (1g) | (10g) | v_{eff} |
| Measurement System | | | | | | | | |
| Probe Calibration | ±4.8 % | N | 1 | 1 | 1 | $\pm 4.8 \%$ | $\pm 4.8 \%$ | ∞ |
| Axial Isotropy | ±4.7 % | R | $\sqrt{3}$ | 0.7 | 0.7 | $\pm 1.9 \%$ | $\pm 1.9 \%$ | ∞ |
| Hemispherical Isotropy | ±9.6 % | R | $\sqrt{3}$ | 0.7 | 0.7 | $\pm 3.9 \%$ | ±3.9 % | ∞ |
| Boundary Effects | $\pm 1.0 \%$ | R | $\sqrt{3}$ | 1 | 1 | $\pm 0.6\%$ | ±0.6 % | ∞ |
| Linearity | ±4.7 % | R | $\sqrt{3}$ | 1 | 1 | $\pm 2.7 \%$ | $\pm 2.7 \%$ | ∞ |
| System Detection Limits | ±1.0 % | R | $\sqrt{3}$ | 1 | 1 | ±0.6 % | ±0.6 % | ∞ |
| Readout Electronics | ±1.0 % | N | 1 | 1 | 1 | ±1.0 % | ±1.0 % | ∞ |
| Response Time | ±0.8 % | R | $\sqrt{3}$ | 1 | 1 | ±0.5% | ±0.5 % | ∞ |
| Integration Time | $\pm 2.6 \%$ | R | $\sqrt{3}$ | 1 | 1 | $\pm 1.5 \%$ | $\pm 1.5 \%$ | ∞ |
| RF Ambient Conditions | ±3.0 % | R | $\sqrt{3}$ | 1 | 1 | $\pm 1.7\%$ | $\pm 1.7 \%$ | ∞ |
| Probe Positioner | ±0.4 % | R | $\sqrt{3}$ | 1 | 1 | $\pm 0.2 \%$ | $\pm 0.2 \%$ | ∞ |
| Probe Positioning | $\pm 2.9 \%$ | R | $\sqrt{3}$ | 1 | 1 | $\pm 1.7 \%$ | $\pm 1.7 \%$ | ∞ |
| Max. SAR Eval. | $\pm 1.0 \%$ | R | $\sqrt{3}$ | 1 | 1 | $\pm 0.6 \%$ | $\pm 0.6 \%$ | ∞ |
| Test Sample Related | | | | | | | | |
| Device Positioning | $\pm 2.9 \%$ | N | 1 | 1 | 1 | $\pm 2.9 \%$ | $\pm 2.9 \%$ | 875 |
| Device Holder | ±3.6 % | N | 1 | 1 | 1 | $\pm 3.6 \%$ | $\pm 3.6 \%$ | 5 |
| Power Drift | ±5.0 % | R | $\sqrt{3}$ | 1 | 1 | $\pm 2.9 \%$ | ±2.9 % | ∞ |
| Phantom and Setup | | | | | | | | |
| Phantom Uncertainty | ±4.0 % | R | $\sqrt{3}$ | 1 | 1 | $\pm 2.3 \%$ | $\pm 2.3 \%$ | ∞ |
| Liquid Conductivity (target) | ±5.0 % | R | $\sqrt{3}$ | 0.64 | 0.43 | ±1.8% | $\pm 1.2 \%$ | ∞ |
| Liquid Conductivity (meas.) | $\pm 2.5 \%$ | N | 1 | 0.64 | 0.43 | $\pm 1.6 \%$ | $\pm 1.1 \%$ | ∞ |
| Liquid Permittivity (target) | ±5.0 % | R | $\sqrt{3}$ | 0.6 | 0.49 | ±1.7% | $\pm 1.4 \%$ | ∞ |
| Liquid Permittivity (meas.) | $\pm 2.5 \%$ | N | 1 | 0.6 | 0.49 | $\pm 1.5 \%$ | $\pm 1.2 \%$ | ∞ |
| Combined Std. Uncertainty | | | | | | $\pm 10.3 \%$ | ±10.0 % | 331 |
| Expanded STD Uncertain | ty | | | | | $\pm 20.6\%$ | $\pm 20.1\%$ | |

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6. Phantom Description

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Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland Phone +41 1 245 9700, Fax +41 1 245 9779 info@speag.com, http://www.speag.com

Certificate of Conformity / First Article Inspection

| Item | SAM Twin Phantom V4.0 |
|--------------|---|
| Type No | QD 000 P40 C |
| Series No | TP-1150 and higher |
| Manufacturer | SPEAG Zeughausstrasse 43 CH-8004 Zürich Switzerland |

Tests

The series production process used allows the limitation to test of first articles. Complete tests were made on the pre-series Type No. QD 000 P40 AA, Serial No. TP-1001 and on the series first article Type No. QD 000 P40 BA, Serial No. TP-1006. Certain parameters have been retested using further series items (called samples) or are tested at each item.

| Test | Requirement | Details | Units tested |
|--------------------------------|---|---|--|
| Dimensions | Compliant with the geometry according to the CAD model. | IT'IS CAD File (*) | First article, Samples |
| Material thickness of shell | Compliant with the requirements according to the standards | 2mm +/- 0.2mm in flat and specific areas of head section | First article, Samples, TP-1314 ff. |
| Material thickness at ERP | Compliant with the requirements according to the standards | 6mm +/- 0.2mm at ERP | First article, All items |
| Material parameters | Dielectric parameters for required frequencies | 300 MHz – 6 GHz: Relative permittivity < 5, Loss tangent < 0.05 | Material samples |
| Material resistivity | The material has been tested to be compatible with the liquids defined in the standards if handled and cleaned according to the instructions. Observe technical Note for material compatibility. | DEGMBE based simulating liquids | Pre-series, First article, Material samples |
| Sagging | Compliant with the requirements according to the standards. Sagging of the flat section when filled with tissue simulating liquid. | < 1% typical < 0.8% if filled with 155mm of HSL900 and without DUT below | Prototypes, Sample testing |

Standards

- CENELEC EN 50361 IEEE Std 1528-2003

- IEC 62209 Part I FCC OET Bulletin 65, Supplement C, Edition 01-01
- The IT'IS CAD file is derived from [2] and is also within the tolerance requirements of the shapes of the other documents.

Based on the sample tests above, we certify that this item is in compliance with the uncertainty requirements of SAR measurements specified in standards [1] to [4].

07.07.2005

Signature / Stamp

Schmid & Partner Engineering AG Zoughausstesse 43, 8004 Zurich Switzerland Phone 141 1 245 9700 Fex 441 245 9779 eag.com, http://www.speag.com

Doc No 881 - QD 000 P40 C - F

Page

1 (1)

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7. System Validation from Original equipment supplier

DASY4 Validation Report for Head TSL

Date/Time: 19.02.2007 15:07:05

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 900 MHz; Type: D900V2; Serial: D900V2 - SN:178

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

Medium: HSL 900 MHz;

Medium parameters used: f = 900 MHz; σ = 0.95 mho/m; ϵ_r = 39.3; ρ = 1000 kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1507 (HF); ConvF(6.01, 6.01, 6.01); Calibrated: 19.10.2006

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn601; Calibrated: 30.01.2007

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

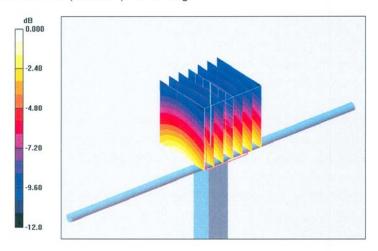
Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 57.3 V/m; Power Drift = 0.044 dB

Peak SAR (extrapolated) = 3.93 W/kg

SAR(1 g) = 2.66 mW/g; SAR(10 g) = 1.71 mW/g Maximum value of SAR (measured) = 2.89 mW/g



0 dB = 2.89 mW/g

Certificate No: D900V2-178_Feb07

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DASY4 Validation Report for Body TSL

Date/Time: 12.02.2007 14:24:23

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 900 MHz; Type: D900V2; Serial: D900V2 - SN:178

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

Medium: MSL900;

Medium parameters used: f = 900 MHz; σ = 1.04 mho/m; ε_r = 52.4; ρ = 1000 kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1507 (HF); ConvF(5.8, 5.8, 5.8); Calibrated: 19.10.2006

Sensor-Surface: 4mm (Mechanical Surface Detection)

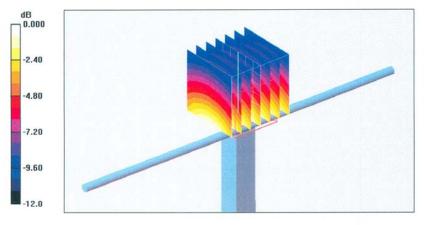
- Electronics: DAE4 Sn601; Calibrated: 30.01.2007
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA; ;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 55.9 V/m; Power Drift = 0.018 dB

Peak SAR (extrapolated) = 3.80 W/kg

SAR(1 g) = 2.69 mW/g; SAR(10 g) = 1.76 mW/g Maximum value of SAR (measured) = 2.92 mW/g



0 dB = 2.92 mW/g

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DASY4 Validation Report for Head TSL

Date/Time: 20.03.2007 14:05:03

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d027

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

Medium: HSL U10 BB;

Medium parameters used: f = 1900 MHz; $\sigma = 1.47$ mho/m; $\varepsilon_r = 39.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1507 (HF); ConvF(4.97, 4.97, 4.97); Calibrated: 19.10.2006

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 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

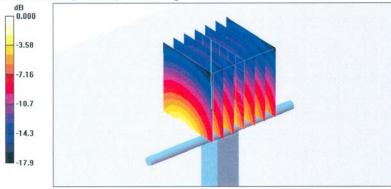
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 87.7 V/m; Power Drift = 0.024 dB

Peak SAR (extrapolated) = 16.0 W/kg

SAR(1 g) = 9.28 mW/g; SAR(10 g) = 4.9 mW/g

Maximum value of SAR (measured) = 10.4 mW/g



0 dB = 10.4 mW/g

Certificate No: D1900V2-5d027 Mar07

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DASY4 Validation Report for Body TSL

Date/Time: 20.03.2007 15:34:07

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d027

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

Medium: MSL U10 BB;

Medium parameters used: f = 1900 MHz; $\sigma = 1.58 \text{ mho/m}$; $\varepsilon_r = 51.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1507 (HF); ConvF(4.43, 4.43, 4.43); Calibrated: 19.10.2006

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 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

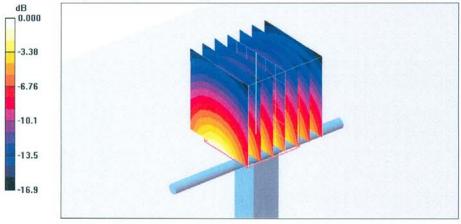
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 90.5 V/m; Power Drift = -0.010 dB

Peak SAR (extrapolated) = 16.2 W/kg

SAR(1 g) = 9.67 mW/g; SAR(10 g) = 5.16 mW/g

Maximum value of SAR (measured) = 10.9 mW/g



0 dB = 10.9 mW/g

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