



EX3DV4- SN:7514

August 27, 2018

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7514

Basic Calibration Parameters

| | Sensor X | Sensor Y | Sensor Z | Unc (k=2) |
|--|----------|----------|----------|---------------|
| Norm ($\mu\text{V}/(\text{V/m})^2$) ^A | 0.46 | 0.44 | 0.39 | $\pm 10.1 \%$ |
| DCP (mV) ^B | 96.5 | 101.1 | 97.9 | |

Modulation Calibration Parameters

| UID | Communication System Name | | A dB | B dB/V/ μV | C | D dB | VR mV | Unc ^E (k=2) |
|-----|---------------------------|---|---------|--------------------------|-----|---------|----------|---------------------------|
| 0 | CW | X | 0.0 | 0.0 | 1.0 | 0.00 | 179.1 | $\pm 3.5 \%$ |
| | | Y | 0.0 | 0.0 | 1.0 | | 177.3 | |
| | | Z | 0.0 | 0.0 | 1.0 | | 158.1 | |

Note: For details on UID parameters see Appendix.

Sensor Model Parameters

| | C1 fF | C2 fF | α V^{-1} | T1 ms.V^{-2} | T2 ms.V^{-1} | T3 ms | T4 V^{-2} | T5 V^{-1} | T6 |
|---|----------|----------|-----------------------------|--------------------------|--------------------------|----------|-----------------------|-----------------------|-------|
| X | 31.17 | 241.1 | 37.77 | 3.625 | 0.025 | 5.031 | 0.000 | 0.325 | 1.005 |
| Y | 34.86 | 259.7 | 35.41 | 7.412 | 0.000 | 5.026 | 0.323 | 0.291 | 1.002 |
| Z | 33.14 | 259.6 | 38.65 | 3.827 | 0.264 | 5.046 | 0.000 | 0.373 | 1.008 |

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 Norm X,Y,Z do not affect the E²-field uncertainty inside TSL (see Pages 5 and 6).

^B Numerical linearization parameter: uncertainty not required.

^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.



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Calibration Parameter Determined in Head Tissue Simulating Media

| f (MHz) ^C | Relative Permittivity ^F | Conductivity (S/m) ^F | ConvF X | ConvF Y | ConvF Z | Alpha ^G | Depth ^G (mm) | Unc (k=2) |
|----------------------|------------------------------------|---------------------------------|---------|---------|---------|--------------------|-------------------------|-----------|
| 150 | 52.3 | 0.76 | 12.79 | 12.79 | 12.79 | 0.00 | 1.00 | ± 13.3 % |
| 300 | 45.3 | 0.87 | 11.57 | 11.57 | 11.57 | 0.07 | 1.20 | ± 13.3 % |
| 450 | 43.5 | 0.87 | 10.68 | 10.68 | 10.68 | 0.14 | 1.20 | ± 13.3 % |
| 750 | 41.9 | 0.89 | 9.47 | 9.47 | 9.47 | 0.45 | 0.89 | ± 12.0 % |
| 835 | 41.5 | 0.90 | 9.09 | 9.09 | 9.09 | 0.53 | 0.85 | ± 12.0 % |
| 900 | 41.5 | 0.97 | 9.03 | 9.03 | 9.03 | 0.49 | 0.85 | ± 12.0 % |
| 1450 | 40.5 | 1.20 | 8.24 | 8.24 | 8.24 | 0.35 | 0.80 | ± 12.0 % |
| 1640 | 40.2 | 1.31 | 8.22 | 8.22 | 8.22 | 0.38 | 0.81 | ± 12.0 % |
| 1750 | 40.1 | 1.37 | 8.10 | 8.10 | 8.10 | 0.36 | 0.83 | ± 12.0 % |
| 1810 | 40.0 | 1.40 | 7.82 | 7.82 | 7.82 | 0.35 | 0.81 | ± 12.0 % |
| 1900 | 40.0 | 1.40 | 7.73 | 7.73 | 7.73 | 0.31 | 0.80 | ± 12.0 % |
| 2000 | 40.0 | 1.40 | 7.64 | 7.64 | 7.64 | 0.30 | 0.84 | ± 12.0 % |
| 2100 | 39.8 | 1.49 | 7.57 | 7.57 | 7.57 | 0.27 | 0.85 | ± 12.0 % |
| 2300 | 39.5 | 1.67 | 7.42 | 7.42 | 7.42 | 0.31 | 0.80 | ± 12.0 % |
| 2450 | 39.2 | 1.80 | 6.95 | 6.95 | 6.95 | 0.38 | 0.98 | ± 12.0 % |
| 2600 | 39.0 | 1.96 | 6.92 | 6.92 | 6.92 | 0.25 | 1.05 | ± 12.0 % |
| 3500 | 37.9 | 2.91 | 6.78 | 6.78 | 6.78 | 0.79 | 0.64 | ± 13.1 % |
| 3700 | 37.7 | 3.12 | 6.61 | 6.61 | 6.61 | 0.42 | 0.93 | ± 13.1 % |
| 5200 | 36.0 | 4.66 | 5.05 | 5.05 | 5.05 | 0.40 | 1.80 | ± 13.1 % |
| 5250 | 35.9 | 4.71 | 5.02 | 5.02 | 5.02 | 0.40 | 1.80 | ± 13.1 % |
| 5300 | 35.9 | 4.76 | 4.99 | 4.99 | 4.99 | 0.40 | 1.80 | ± 13.1 % |
| 5500 | 35.6 | 4.96 | 4.59 | 4.59 | 4.59 | 0.40 | 1.80 | ± 13.1 % |
| 5600 | 35.5 | 5.07 | 4.41 | 4.41 | 4.41 | 0.40 | 1.80 | ± 13.1 % |
| 5750 | 35.4 | 5.22 | 4.47 | 4.47 | 4.47 | 0.40 | 1.80 | ± 13.1 % |
| 5800 | 35.3 | 5.27 | 4.42 | 4.42 | 4.42 | 0.40 | 1.80 | ± 13.1 % |

^C Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below at 150 MHz is ± 50 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz.

^F At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.



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DASY/EASY - Parameters of Probe: EX3DV4 - SN:7514

Calibration Parameter Determined in Body Tissue Simulating Media

| f (MHz) ^c | Relative Permittivity ^f | Conductivity (S/m) ^f | ConvF X | ConvF Y | ConvF Z | Alpha ^g | Depth ^g (mm) | Unc (k=2) |
|----------------------|------------------------------------|---------------------------------|---------|---------|---------|--------------------|-------------------------|-----------|
| 150 | 61.9 | 0.80 | 12.43 | 12.43 | 12.43 | 0.00 | 1.00 | ± 13.3 % |
| 300 | 58.2 | 0.92 | 11.39 | 11.39 | 11.39 | 0.05 | 1.20 | ± 13.3 % |
| 450 | 56.7 | 0.94 | 11.34 | 11.34 | 11.34 | 0.08 | 1.20 | ± 13.3 % |
| 750 | 55.5 | 0.96 | 9.68 | 9.68 | 9.68 | 0.31 | 1.04 | ± 12.0 % |
| 835 | 55.2 | 0.97 | 9.47 | 9.47 | 9.47 | 0.46 | 0.80 | ± 12.0 % |
| 900 | 55.0 | 1.05 | 9.34 | 9.34 | 9.34 | 0.46 | 0.83 | ± 12.0 % |
| 1450 | 54.0 | 1.30 | 8.02 | 8.02 | 8.02 | 0.31 | 0.80 | ± 12.0 % |
| 1640 | 53.7 | 1.42 | 7.85 | 7.85 | 7.85 | 0.42 | 0.81 | ± 12.0 % |
| 1750 | 53.4 | 1.49 | 7.82 | 7.82 | 7.82 | 0.39 | 0.83 | ± 12.0 % |
| 1810 | 53.3 | 1.52 | 7.69 | 7.69 | 7.69 | 0.32 | 0.92 | ± 12.0 % |
| 1900 | 53.3 | 1.52 | 7.53 | 7.53 | 7.53 | 0.35 | 0.83 | ± 12.0 % |
| 2000 | 53.3 | 1.52 | 7.45 | 7.45 | 7.45 | 0.39 | 0.80 | ± 12.0 % |
| 2100 | 53.2 | 1.62 | 7.39 | 7.39 | 7.39 | 0.32 | 0.94 | ± 12.0 % |
| 2300 | 52.9 | 1.81 | 7.25 | 7.25 | 7.25 | 0.37 | 0.85 | ± 12.0 % |
| 2450 | 52.7 | 1.95 | 7.13 | 7.13 | 7.13 | 0.32 | 0.97 | ± 12.0 % |
| 2600 | 52.5 | 2.16 | 7.06 | 7.06 | 7.06 | 0.24 | 1.10 | ± 12.0 % |
| 3500 | 51.3 | 3.31 | 6.85 | 6.85 | 6.85 | 0.00 | 1.00 | ± 13.1 % |
| 3700 | 51.0 | 3.55 | 6.75 | 6.75 | 6.75 | 0.00 | 1.00 | ± 13.1 % |
| 5200 | 49.0 | 5.30 | 4.59 | 4.59 | 4.59 | 0.50 | 1.90 | ± 13.1 % |
| 5250 | 48.9 | 5.36 | 4.54 | 4.54 | 4.54 | 0.50 | 1.90 | ± 13.1 % |
| 5300 | 48.9 | 5.42 | 4.49 | 4.49 | 4.49 | 0.50 | 1.90 | ± 13.1 % |
| 5500 | 48.6 | 5.65 | 4.17 | 4.17 | 4.17 | 0.50 | 1.90 | ± 13.1 % |
| 5600 | 48.5 | 5.77 | 4.00 | 4.00 | 4.00 | 0.50 | 1.90 | ± 13.1 % |
| 5750 | 48.3 | 5.94 | 3.98 | 3.98 | 3.98 | 0.50 | 1.90 | ± 13.1 % |
| 5800 | 48.2 | 6.00 | 3.94 | 3.94 | 3.94 | 0.50 | 1.90 | ± 13.1 % |

^c Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 150 MHz is ± 50 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz.

^f At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

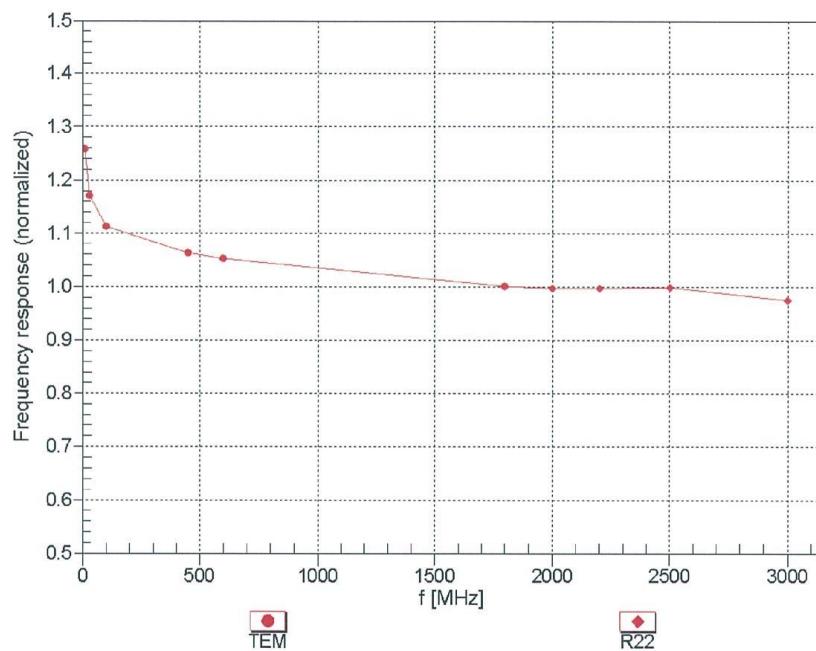
^g Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

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Frequency Response of E-Field

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

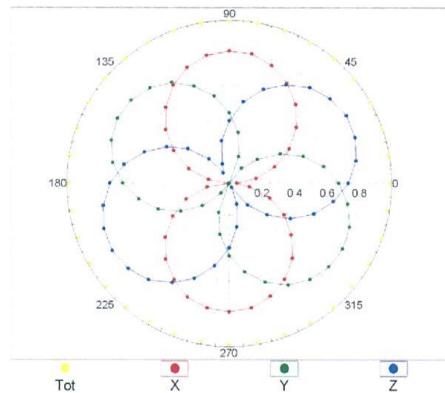
Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ ($k=2$)

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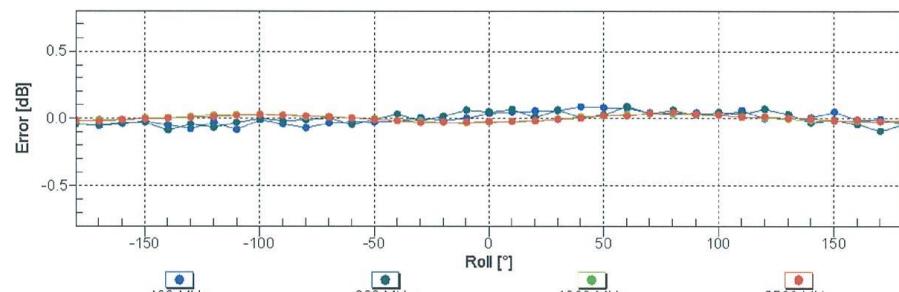
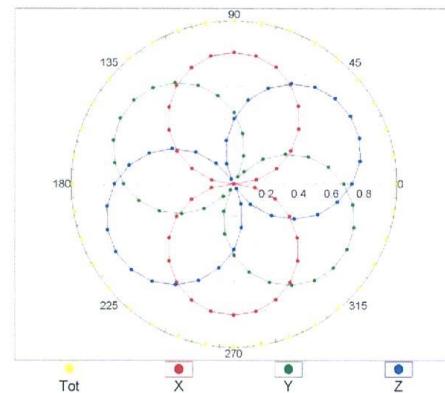
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Receiving Pattern (ϕ), $\theta = 0^\circ$

f=600 MHz,TEM



f=1800 MHz,R22

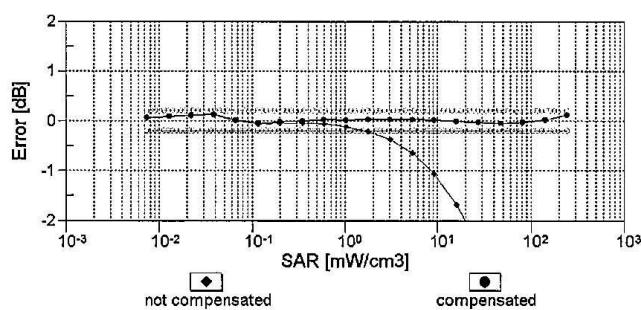
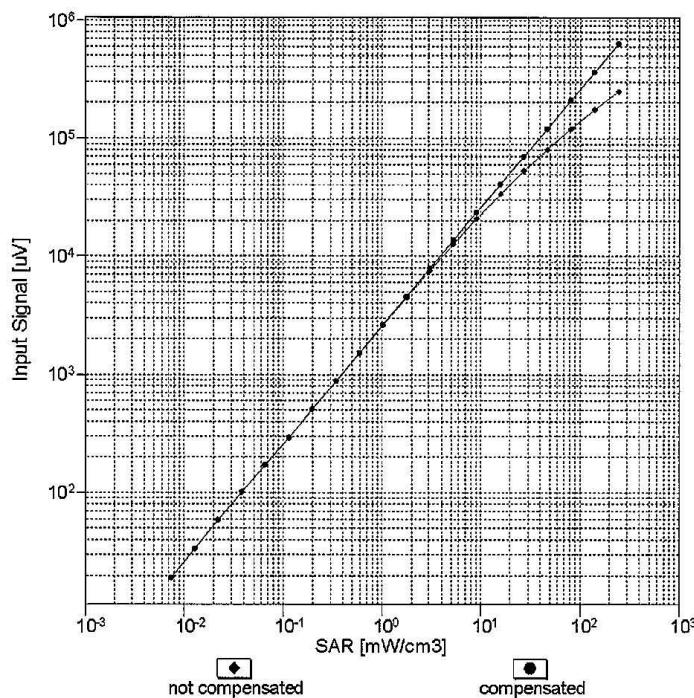


Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ (k=2)

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Dynamic Range f(SAR_{head})
(TEM cell , f_{eval}= 1900 MHz)

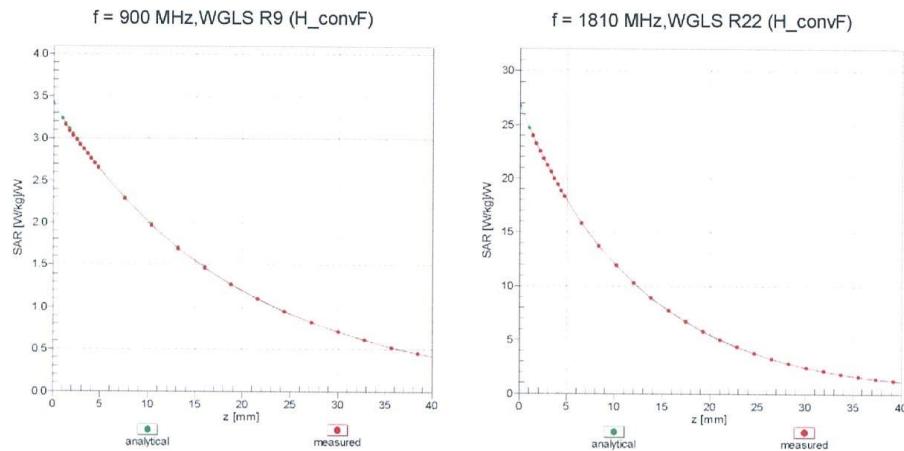


Uncertainty of Linearity Assessment: ± 0.6% (k=2)

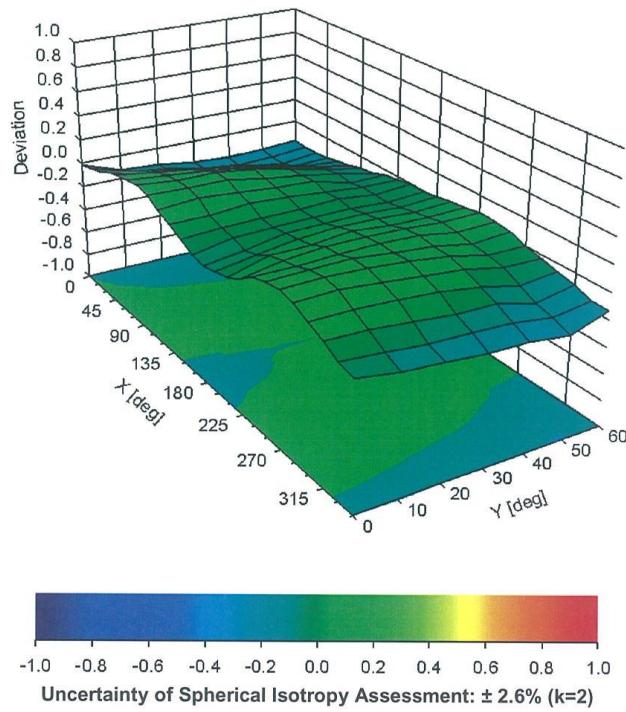
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Conversion Factor Assessment



Deviation from Isotropy in Liquid Error (ϕ, θ), $f = 900 \text{ MHz}$





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DASY/EASY - Parameters of Probe: EX3DV4 - SN:7514

Other Probe Parameters

| | |
|---|------------|
| Sensor Arrangement | Triangular |
| Connector Angle (°) | -19.8 |
| Mechanical Surface Detection Mode | enabled |
| Optical Surface Detection Mode | disabled |
| Probe Overall Length | 337 mm |
| Probe Body Diameter | 10 mm |
| Tip Length | 9 mm |
| Tip Diameter | 2.5 mm |
| Probe Tip to Sensor X Calibration Point | 1 mm |
| Probe Tip to Sensor Y Calibration Point | 1 mm |
| Probe Tip to Sensor Z Calibration Point | 1 mm |
| Recommended Measurement Distance from Surface | 1.4 mm |

ANNEX H Dipole Calibration Certificate

835 MHz Dipole Calibration Certificate

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



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

Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Client **CTTL (Auden)**

Certificate No: **D835V2-4d069_Jul18**

CALIBRATION CERTIFICATE

Object **D835V2 - SN:4d069**

Calibration procedure(s) **QA CAL-05.v10**
Calibration procedure for dipole validation kits above 700 MHz

Calibration date: **July 23, 2018**

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 $(22 \pm 3)^\circ\text{C}$ and humidity $< 70\%$.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID # | Cal Date (Certificate No.) | Scheduled Calibration |
|---------------------------------|--------------------|-----------------------------------|------------------------|
| Power meter NRP | SN: 104778 | 04-Apr-18 (No. 217-02672/02673) | Apr-19 |
| Power sensor NRP-Z91 | SN: 103244 | 04-Apr-18 (No. 217-02672) | Apr-19 |
| Power sensor NRP-Z91 | SN: 103245 | 04-Apr-18 (No. 217-02673) | Apr-19 |
| Reference 20 dB Attenuator | SN: 5058 (20k) | 04-Apr-18 (No. 217-02682) | Apr-19 |
| Type-N mismatch combination | SN: 5047.2 / 06327 | 04-Apr-18 (No. 217-02683) | Apr-19 |
| Reference Probe EX3DV4 | SN: 7349 | 30-Dec-17 (No. EX3-7349_Dec17) | Dec-18 |
| DAE4 | SN: 601 | 26-Oct-17 (No. DAE4-601_Oct17) | Oct-18 |
| Secondary Standards | ID # | Check Date (in house) | Scheduled Check |
| Power meter EPM-442A | SN: GB37480704 | 07-Oct-15 (in house check Oct-16) | In house check: Oct-18 |
| Power sensor HP 8481A | SN: US37292783 | 07-Oct-15 (in house check Oct-16) | In house check: Oct-18 |
| Power sensor HP 8481A | SN: MY41092317 | 07-Oct-15 (in house check Oct-16) | In house check: Oct-18 |
| RF generator R&S SMT-06 | SN: 100972 | 15-Jun-15 (in house check Oct-16) | In house check: Oct-18 |
| Network Analyzer Agilent E8358A | SN: US41080477 | 31-Mar-14 (in house check Oct-17) | In house check: Oct-18 |

| Calibrated by: | Name | Function | Signature |
|----------------|------------|-----------------------|-----------|
| | Manu Seitz | Laboratory Technician | |

| Approved by: | Name | Function | Signature |
|--------------|---------------|-------------------|-----------|
| | Katja Pokovic | Technical Manager | |

Issued: July 24, 2018

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

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



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

Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108****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 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

- e) DASY4/5 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.

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%.

Measurement Conditions

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

| | | |
|-------------------------------------|------------------------|-------------|
| DASY Version | DASY5 | V52.10.1 |
| Extrapolation | Advanced Extrapolation | |
| Phantom | Modular Flat Phantom | |
| Distance Dipole Center - TSL | 15 mm | with Spacer |
| Zoom Scan Resolution | dx, dy, dz = 5 mm | |
| Frequency | 835 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 | 0.90 mho/m |
| Measured Head TSL parameters | (22.0 ± 0.2) °C | 40.7 ± 6 % | 0.92 mho/m ± 6 % |
| Head TSL temperature change during test | < 0.5 °C | ---- | ---- |

SAR result with Head TSL

| | | |
|---|--------------------|--------------------------|
| SAR averaged over 1 cm³ (1 g) of Head TSL | Condition | |
| SAR measured | 250 mW input power | 2.40 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 9.40 W/kg ± 17.0 % (k=2) |

| | | |
|---|--------------------|--------------------------|
| SAR averaged over 10 cm³ (10 g) of Head TSL | condition | |
| SAR measured | 250 mW input power | 1.54 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 6.06 W/kg ± 16.5 % (k=2) |

Body TSL parameters

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|--|-----------------|--------------|------------------|
| Nominal Body TSL parameters | 22.0 °C | 55.2 | 0.97 mho/m |
| Measured Body TSL parameters | (22.0 ± 0.2) °C | 55.2 ± 6 % | 0.99 mho/m ± 6 % |
| Body TSL temperature change during test | < 0.5 °C | ---- | ---- |

SAR result with Body TSL

| | | |
|---|--------------------|--------------------------|
| SAR averaged over 1 cm³ (1 g) of Body TSL | Condition | |
| SAR measured | 250 mW input power | 2.42 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | 9.53 W/kg ± 17.0 % (k=2) |

| | | |
|---|--------------------|--------------------------|
| SAR averaged over 10 cm³ (10 g) of Body TSL | condition | |
| SAR measured | 250 mW input power | 1.59 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | 6.28 W/kg ± 16.5 % (k=2) |

Appendix (Additional assessments outside the scope of SCS 0108)**Antenna Parameters with Head TSL**

| | |
|--------------------------------------|-----------------|
| Impedance, transformed to feed point | 50.8 Ω - 2.1 jΩ |
| Return Loss | - 33.0 dB |

Antenna Parameters with Body TSL

| | |
|--------------------------------------|-----------------|
| Impedance, transformed to feed point | 46.1 Ω - 5.2 jΩ |
| Return Loss | - 23.4 dB |

General Antenna Parameters and Design

| | |
|----------------------------------|----------|
| Electrical Delay (one direction) | 1.396 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. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

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 | November 09, 2007 |

DASY5 Validation Report for Head TSL

Date: 16.07.2018

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d069

Communication System: UID 0 - CW; Frequency: 835 MHz

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.92 \text{ S/m}$; $\epsilon_r = 40.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN7349; ConvF(9.9, 9.9, 9.9) @ 835 MHz; Calibrated: 30.12.2017
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 26.10.2017
- Phantom: Flat Phantom 4.9 (front); Type: QD 00L P49 AA; Serial: 1001
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

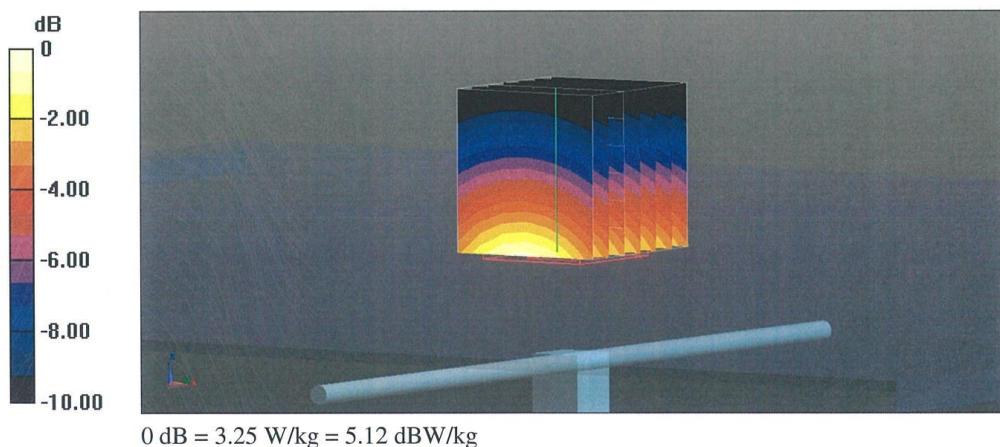
Dipole Calibration for Head Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 62.65 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 3.70 W/kg

SAR(1 g) = 2.4 W/kg; SAR(10 g) = 1.54 W/kg

Maximum value of SAR (measured) = 3.25 W/kg



Impedance Measurement Plot for Head TSL

