#### SAR Calibration Certificate - Probe EX3DV4 SN3825

Calibration Laborato Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zuri	-	S S S	Schweizerischer Kalibrierdienst Service suisse d'étalonnage Servizio svizzero di taratura Swiss Calibration Service				
ccredited by the Swiss Accredit he Swiss Accreditation Servi- luitilateral Agreement for the	ce is one of the signatories	to the EA	reditation No.: SCS 0108				
lient UL Japan (Vitec) Certificate No: EX3-3825_Dec15							
CALIBRATION	CERTIFICATE						
Object .	EX3DV4 - SN:382	5	, <sup>3</sup>				
Calibration procedure(s)		A CAL-14.v4, QA CAL-23.v5, QA ure for dosimetric E-field probes	CAL-25.v6				
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**Calibration Laboratory of** Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland



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Swiss Calibration Service

Accreditation No.: SCS 0108

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

Glossary:	
TSL	tissue simulating liquid
NORMx,y,z	sensitivity in free space
ConvF	sensitivity in TSL / NORMx,y,z
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization $\phi$	o 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

information used in DASY system to align probe sensor X to the robot coordinate system Connector Angle

#### 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
- b) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices
  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"

#### Methods Applied and Interpretation of Parameters:

- NORMx, y, z: Assessed for E-field polarization  $\vartheta = 0$  (f  $\leq 900$  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 affect the E<sup>2</sup>-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 with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z; A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode. *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 \* Con/F whereby the uncertainty corresponds to that given for Con/F. A frequency dependent Con/F is used in DASY version 4.4 and higher which allows extending the validity from  $\pm$  50 MHz to  $\pm$  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.
- Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

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# Probe EX3DV4

# SN:3825

Manufactured: Calibrated: September 6, 2011 December 11, 2015

Calibrated for DASY/EASY Systems (Note: non-compatible with DASY2 system!)

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	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
$10 \text{ m} (\mu V/(V/m)^2)^A$	0.43	0.39	0.43	± 10.1 %
OCP (mV) <sup>8</sup>	101.4	102.7	100.2	

#### **Modulation Calibration Parameters**

UID	Communication System Name		A dB	B dBõV	С	D dB	VR mV	Unc <sup>E</sup> (k=2)
0	CW	X	0.0	0,0	1.0	0.00	143.6	±2.7 %
		Y	0.0	0.0	1.0		139.1	
		Z	0.0	0.0	1.0		153.8	

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%.

<sup>A</sup> The uncertainties of Norm X,Y,Z do not affect the É<sup>2</sup>-field uncertainty inside TSL (see Pages 5 and 6).
 <sup>B</sup> Numerical linearization parameter: uncertainty not required.
 <sup>C</sup> 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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f (MHz) <sup>c</sup>	Relative Permittivity <sup>F</sup>	Conductivity (S/m) <sup>F</sup>	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k=2)
750	41.9	0.89	9.79	9.79	9.79	0.23	1.25	± 12.0 %
835	41.5	0.90	9.49	9.49	9,49	0.21	1.30	± 12.0 %
900	41.5	0.97	9.23	9.23	9.23	0.24	1.24	± 12.0 %
1450	40.5	1.20	8.30	8.30	8.30	0.12	2.03	± 12.0 %
1750	40.1	1.37	8.18	8.18	8,18	0.24	0.95	± 12.0 %
1900	40.0	1,40	7.94	7.94	7.94	0.31	0.85	± 12.0 %
1950	40.0	1.40	7.69	7.69	7.69	0.31	0.85	± 12.0 %
2450	39.2	1.80	7.31	7.31	7.31	0.34	0.83	± 12.0 %
3500	37.9	2.91	6.91	6.91	6.91	0.28	1.25	± 13.1 %
5200	36.0	4.66	5.13	5.13	5.13	0.35	1.80	± 13.1 %
5250	35.9	4.71	5.06	5.06	5.06	0.35	1.80	± 13.1 %
5300	35.9	4.76	4.83	4.83	4.83	0.40	1.80	± 13.1 %
5500	35.6	4.96	4.60	4.60	4.60	0.45	1.80	± 13.1 %
5600	35.5	5.07	4.27	4.27	4.27	0.50	1,80	± 13.1 %
5750	35.4	5.22	4.44	4.44	4,44	0.50	1,80	± 13.1 %
5800	35.3	5.27	4.34	4,34	4,34	0.50	1.80	± 13.1 %

Calibration Parameter Determined in Head Tissue Simulating Media

<sup>C</sup> 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 300 MHz is ± 10, 25, 40, 60 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz. The indicated frequency band. Frequency validity can be extended to ± 110 MHz.
\* All frequencies below 3 GHz, the validity of tissue parameters (*x* and *a*) 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.
\* Alpha Paper and the estimated target tissue parameters.
\* Alpha Paper and the estimated 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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f (MHz) <sup>c</sup>	Relative Permittivity <sup>F</sup>	Conductivity (S/m) <sup>F</sup>	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k=2)
750	55.5	0.96	9.89	9.89	9.89	0.35	0.92	± 12.0 %
835	55.2	0.97	9.67	9.67	9.67	0.23	1.22	± 12.0 %
900	55.0	1.05	9,56	9.56	9.56	0.30	0.98	± 12.0 %
1450	54.0	1.30	8.18	8.18	8.18	0.24	1.09	± 12.0 %
1750	53.4	1.49	7.94	7.94	7.94	0.32	0.88	± 12.0 %
1900	53.3	1.52	7,66	7.66	7.66	0.23	1.10	± 12.0 %
1950	53.3	1.52	7.93	7.93	7.93	0.29	0.96	± 12.0 %
2450	52.7	1.95	7.29	7.29	7.29	0.32	0.85	± 12.0 %
3500	51,3	3.31	6.39	6.39	6.39	0.36	1.06	± 13.1 %
5250	48.9	5.36	4.25	4.25	4.25	0.50	1.90	± 13.1 %
5600	48.5	5.77	3.61	3.61	3.61	0.60	1.90	± 13.1 %
5750	48.3	5.94	3.85	3.85	3.85	0.60	1,90	± 13.1 %

Calibration Parameter Determined in Body Tissue Simulating Media

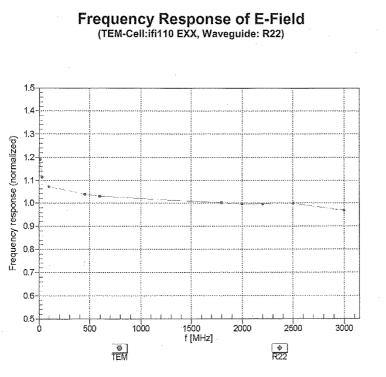
<sup>c</sup> Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity validity can be extended to ± 110 MHz.
<sup>\*</sup> At frequencies below 3 GHz, the validity of tissue parameters (a and *a*) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of bissue parameters (a and *a*) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.
<sup>e</sup> Alpha/Dipti 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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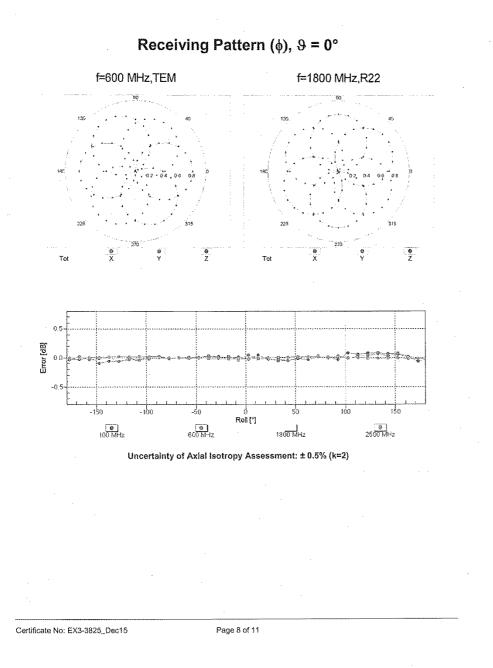
Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

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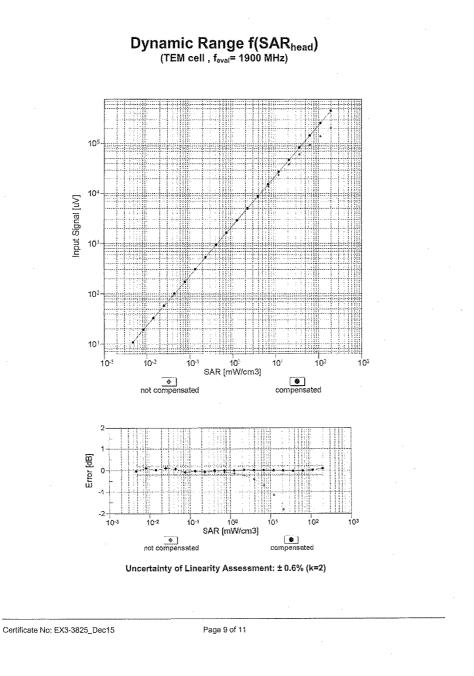
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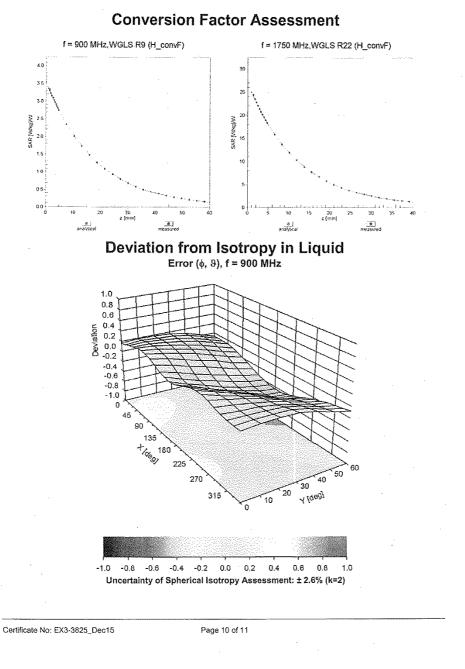


EX3DV4- SN:3825

December 11, 2015



December 11, 2015



## Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	-27.3
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

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