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Appendix B - DAE & Probe Calibration Certificate

	ch, Switzerland	Salvilla.	Swiss Calibration Service
ccredited by the Swiss Accredithe Swiss Accreditation Servi fultilateral Agreement for the	ce is one of the signatories	to the EA	on No.: SCS 0108
SGS (Auden)		2000	lo: DAE4-1336_Aug21
CALIBRATION	CERTIFICATE		
Object	DAE4 - SD 000 D	04 BM - SN: 1336	
Calibration procedure(s)	QA CAL-06.v30		
	Calibration proced	dure for the data acquisition ele	ctronics (DAE)
Calibration date:	August 20, 2021		
his calibration certificate docur he measurements and the unc	ments the traceability to natio	nal standards, which realize the physical us obability are given on the following pages a	nits of measurements (SI). nd are part of the certificate.
The measurements and the unc Will calibrations have been condi- calibration Equipment used (MI	pertainties with confidence pro ucted in the closed laboratory KTE critical for calibration)	nal standards, which realize the physical α cobbility are given on the following pages a α facility: environment temperature (22 \pm 3)	nd are part of the certificate.
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The measurements and the unc All calibrations have been cond Calibration Equipment used (MI Primary Standards Keithley Multimeter Type 2001	vertainties with confidence pro ucted in the closed laboratory KTE critical for calibration)	blability are given on the following pages a facility: environment temperature (22 ± 3) Cal Date (Certificate No.)	nd are part of the certificate. 'C and humidity < 70%. Scheduled Calibration
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The measurements and the unc All calibrations have been cond Calibration Equipment used (MI Primary Standards Ceithley Multimeter Type 2001 Secondary Standards Auto DAE Calibration Unit	retainties with confidence proucted in the closed laboratory KTE critical for calibration) ID # SN: 0810278 ID # SE UWS 0S3 AA 1001	bability are given on the following pages a facility: environment temperature (22 ± 3)' Cal Date (Certificate No.) O'-Sep-20 (No:28647) O'-Seb-20 (No:28647) O'-Jan-21 (in house check)	nd are part of the certificate. 'C and humidaly < 70%. Scheduled Calibration Sep-21 In house check: Jan-22
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Calibration Laboratory of Schmid & Partner Engineering AG





Service suisse d'étalonnage Servizio svizzero di taratura

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Accreditation No.: SCS 0108

Glossary

DAE Connector angle

data acquisition electronics information used in DASY system to align probe sensor X to the robot coordinate system

Methods Applied and Interpretation of Parameters

- DC Voltage Measurement: Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- Connector angle: The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
 - DC Voltage Measurement Linearity: Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.
 - Common mode sensitivity: Influence of a positive or negative common mode voltage on the differential measurement
 - Channel separation: Influence of a voltage on the neighbor channels not subject to an input voltage
 - AD Converter Values with inputs shorted: Values on the internal AD converter corresponding to zero input voltage
 - Input Offset Measurement: Output voltage and statistical results over a large number of zero voltage measurements
 - Input Offset Current: Typical value for information: Maximum channel input offset current, not considering the input resistance
 - Input resistance: Typical value for information: DAE input resistance at the connector, during internal auto-zeroing and during measurement.
 - Low Battery Alarm Voltage: Typical value for information, Below this voltage, a battery alarm signal is generated.
 - Power consumption: Typical value for information. Supply currents in various operating modes.

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DC Voltage Measurement

A/D - Converter Resolution nomin

High Range: 1LSB =

Low Range: 1LSB =

DASY measurement parameters; esolution nominal

1LSB = 6.1 µV . full range = -100...+300 mV

1LSB = 61 nV . full range = -1......+3mV

ent parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	X	Y	Z
High Range	403.395 ± 0.02% (k=2)	403.699 ± 0.02% (k=2)	403.181 ± 0.02% (k=2)
Low Range	3.95140 ± 1.50% (k=2)	3.98832 ± 1.50% (k=2)	3.99675 ± 1.50% (k=2)

Connector Angle

Connector Angle to be used in DASY system	200 A C C 4 C
Connector Angle to be used in DASY system	337.0°±1°

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Appendix (Additional assessments outside the scope of SCS0108)

High Range	Reading (µV)	Difference (µV)	Error (%)
Channel X + Input	199994.87	-0.57	-0,00
Channel X + Input	20003.04	1.02	0.01
Channel X - Input	-19999.60	2.19	-0.01
Channel Y + Input	199994.43	-0.97	-0,00
Channel Y + Input	20000.24	-1.68	-0.01
Channel Y - Input	-20003.86	-1.89	0.01
Channel Z + Input	199996.97	1.15	0,00
Channel Z + Input	19999.88	-1.94	-0.01
Channel Z - Input	-20003.19	-1.35	0.01

Low Range	Reading (µV)	Difference (µV)	Error (%)
Channel X + Input	2001,13	0.09	0.00
Channel X + Input	201.77	0.46	0.23
Channel X - Input	-198.03	0.61	-0,31
Channel Y + Input	2001.20	0.17	0.01
Channel Y + Input	200.67	-0.66	-0.33
Channel Y - Input	-199,32	-0.62	0.31
Channel Z + Input	2001.02	0.19	0.01
Channel Z + Input	200.18	-0.91	-0.45
Channel Z - Input	-199.41	-0.56	0.28

	Common mode Input Voltage (mV)	High Range Average Reading (μV)	Low Range Average Reading (μV
Channel X	200	6.13	5.08
	- 200	-3.78	-5.13
Channel Y	200	-4.25	-4.17
	- 200	1.79	1.85
Channel Z	200	22.60	22.64
	- 200	-24.87	-24.70

3. Channel separation

eters: Auto Zero Time: 3 sec: Mea

	Input Voltage (mV)	Channel X (µV)	Channel Y (µV)	Channel Z (µV)
Channel X	200	-	5.23	-0.98
Channel Y	200	9.11	-	6.48
Channel Z	200	8.79	6.41	

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4. AD-Converter Values with inputs shorted

	High Range (LSB)	Low Range (LSB)
Channel X	15667	16718
Channel Y	15908	15798
Channel Z	15845	14611

5. Input Offset Measurement

5. Input Offset Measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Average (μV)	min. Offset (μV)	max. Offset (μV)	Std. Deviation (µV)
Channel X	1.60	0.77	2.53	0.32
Channel Y	-0.38	-1.24	0.77	0.34
Channel Z	-0.59	-1.74	0.43	0.38

6. Input Offset Current

offset current on all channels: <25t/

7. Input Resistance (Typical values for information)

	Zeroing (kOhm)	Measuring (MOhm)
Channel X	200	200
Channel Y	200	200
Channel Z	200	200

8. Low Battery Alarm Voltage (Typical values for int

Typical values	Alarm Level (VDC)	
Supply (+ Vcc)	+7.9	
Supply (- Vcc)	-7.6	

9. Power Consumption (Typical val

Typical values	Switched off (mA)	Stand by (mA)	Transmitting (mA)
Supply (+ Vcc)	+0.01	+8	+14
Supply (- Vcc)	-0.01	-8	-9

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Issued: March 30, 2022

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Accreditation No.: SCS 0108

Client

SGS-TW (Auden)

Certificate No: EX3-7509_Mar22

CALIBRATION CERTIFICATE Object EX3DV4 - SN:7509 QA CAL-01.v9, QA CAL-14.v6, QA CAL-23.v5, QA CAL-25.v7 Calibration procedure for dosimetric E-field probes Calibration procedure(s) March 25, 2022 Calibration date: 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 Cal Date (Certificate No.) Scheduled Calibration Power meter NRP SN: 104778 09-Apr-21 (No. 217-03291/03292) Apr-22 Power sensor NRP-Z91 SN: 103244 09-Apr-21 (No. 217-03291) Apr-22 Power sensor NRP-Z91 SN: 103245 09-Apr-21 (No. 217-03292) Reference 20 dB Attenuator SN: CC2552 (20x) 09-Apr-21 (No. 217-03343) Apr-22 DAE4 SN: 660 13-Oct-21 (No. DAE4-660, Oct21) Oct-22 Reference Probe ES3DV2 Dec-22 27-Dec-21 (No. ES3-3013_Dec21)

Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-20)	in house check: Jun-22
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-20)	In house check: Jun-22
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-20)	In house check: Jun-22
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-20)	In house check: Jun-22
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-20)	In house check: Oct-22
	Name	Function	D. 100
	Name	Function	Signature
Calibrated by:	Aidonia Georgiadou	Laboratory Technician	Nao

Certificate No: EX3-7509 Mar22

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Accreditation No.: SCS 0108

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Glossary:

tissue simulating liquid sensitivity in free space sensitivity in TSL / NORMx,y,z diode compression point crest factor (1/duty_cycle) of the RF signal modulation dependent linearization parameters TSL NORMx,y,z DCP CF

A, B, C, D

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

- Calibration is Performed According to the Following Standards:

 a) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
 - b) 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 9 = 0 ($f \le 900$ MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only infermediate values, i.e., the uncertainties of NORMx,y,z does not affect 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 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
- Convir and boundary Enect Parameters. Assessed in tala phantom using E-field (or 1 emperature 1 ransfer 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.
- Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

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DASY/EASY - Parameters of Probe: EX3DV4 - SN:7509

Basic Calibration Parameters

,	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (µV/(V/m)²) ^A	0,60	0.65	0.69	± 10.1 %
DCP (mV) ⁹	105.7	101.8	103.4	

Modulation Calibration Parameters

מוט	Communication System Name		A	B dB√μV	С	D dB	VR mV	Unc∈ (k=2)
0	CW	X	0,0	0.0	1.0	0.00	142.0	±3.3 %
		Y	0.0	0.0	1.0		137.8	
		Z	0.0	0.0	1.0		146.9	

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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⁴ The uncertainties of Norm X,Y,Z do not affect the E^x-field uncertainty incide TSL (see Page 5).
⁸ Numerical linearization parameter, uncertainty not required.
⁹ Uncertainty is determined using the max, deviation from linear response applying rectangular distribution and is expressed for the square of time.



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DASY/EASY - Parameters of Probe: EX3DV4 - SN:7509

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	-67.6
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

Note: Measurement distance from surface can be increased to 3-4 mm for an Area Scan job.

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March 25, 2022

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7509

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 ^c	Depth ^G (mm)	Unc (k=2)
750	41.9	98.0	10.18	10,18	10.18	0.41	0.96	± 12.0 %
835	41.5	0.90	9.78	9.78	9.78	0.47	0.87	± 12.0 %
900	41.5	0.97	9.63	9.63	9.63	0.54	0.80	± 12.0 9
1750	40.1	1.37	8.93	8.93	8.93	0.37	0.86	± 12.0 5
1900	40.0	1.40	8.58	8.58	8.58	0.37	0.86	± 12.0 9
2000	40.0	1.40	8.46	8,46	8.46	0.33	0.86	± 12.0 9
2300	39.5	1.67	8.18	8.18	8.18	0,33	0.90	± 12.0 9
2450	39.2	1.80	8.14	8.14	8.14	0.32	0.90	± 12.0 9
2600	39.0	1.96	7.81	7.81	7.81	0.38	0.90	± 12.0 %
3300	38.2	2.71	7.31	7.31	7.31	0.30	1,35	±13.19
3500	37.9	2.91	7.17	7.17	7.17	0.35	1.35	± 13.1 9
3700	37.7	3.12	6.90	6.90	6.90	0.35	1.35	± 13.1 9
3900	37.5	3.32	6.76	6.76	6.76	0.40	1.60	± 13.19
4100	37.2	3.53	6.63	6.63	6.63	0.40	1.60	± 13,1 9
4200	37.1	3.53	6.50	6.50	8.50	0.40	1.60	± 13.19
4400	36.9	3.84	6.37	6.37	6.37	0.40	1.60	± 13.1 9
4600	36.7	4.04	6.29	6.29	6.29	0.40	1.60	±13.19
4800	36.4	4.25	6.30	6.30	6.30	0.45	1.80	± 13.1 9
4950	36.3	4.40	6.11	6.11	6.11	0.40	1.80	± 13.19
5250	35.9	4.71	5.58	5.58	5.58	0.40	1.80	± 13.1 9
5600	35.5	5.07	5.02	5.02	5.02	0.40	1.80	± 13.1 9
5750	35.4	5.22	5.22	5.22	5.22	0.40	1.80	± 13.1 9

Finguency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), also it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at cellbration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 35, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Velotity of ConvF assessed at 5 MHz is ± 10 MHz. Above 5 GHz requency validity can be extended to ± 10 MHz.

*All frequencies below 3 GHz, the validity of lissue parameters (a and o) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. All frequencies above 3 GHz, the validity of lissue parameters (a and o) is restricted to ± 50%. The uncertainty is the RSS of measured SAR values. All frequencies above 3 GHz, the validity of lissue parameters (a and o) is restricted to ± 50%. The uncertainty is the RSS of measured SAR values. All frequencies above 3 GHz and below 2 GHz and below 2 GHz and below 3 GHz at any distance larger than half the probe light dismoster from the boundary.

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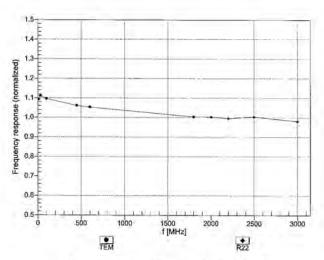


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Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)



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

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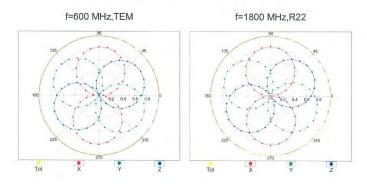


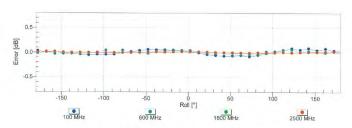
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Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$





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

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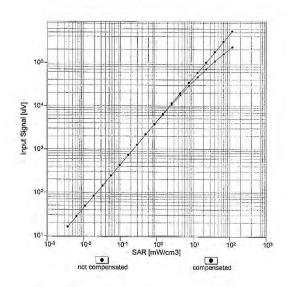
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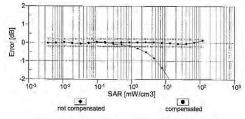
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Dynamic Range f(SARhead) (TEM cell , feval= 1900 MHz)





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

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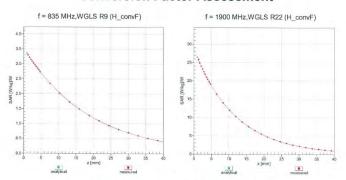


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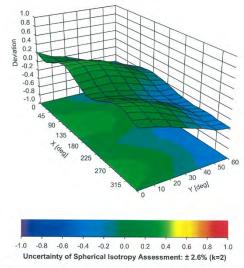
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Conversion Factor Assessment



Deviation from Isotropy in Liquid Error (φ, θ), f = 900 MHz



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- End of report -

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