

Appendix B - DAE & Probe Calibration Certificate

Calibration Laboratory of
Schmid & Partner
Engineering AG
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Accreditation No.: SCS 0108

Client SGS (Auden)

Certificate No: DAE4-1336_Aug21

CALIBRATION CERTIFICATE

Object DAE4 - SD 000 D04 BM - SN: 1336

Calibration procedure(s) QA CAL-06.v30
Calibration procedure for the data acquisition electronics (DAE)

Calibration date: August 20, 2021

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
Keithley Multimeter Type 2001	SN: 0810278	07-Sep-20 (No:28647)	Sep-21
Secondary Standards	ID #	Check Date (In house)	Scheduled Check
Auto DAE Calibration Unit	SE UWS 053 AA 1001	07-Jan-21 (in house check)	In house check: Jan-22
Calibrator Box V2.1	SE UMS 006 AA 1002	07-Jan-21 (in house check)	In house check: Jan-22

Calibrated by:	Name Dominique Steffen	Function Laboratory Technician	Signature
Approved by:	Name Sven Kühn	Function Deputy Manager	Signature

Issued: August 20, 2021

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Certificate No: DAE4-1336_Aug21

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Accreditation No.: **SCS 0108**

Glossary

DAE data acquisition electronics
Connector angle 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 nominal

High Range: 1LSB = 6.1 μ V , full range = -100...+300 mV

Low Range: 1LSB = 61nV , full range = -1.....+3mV

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

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

Connector Angle

Connector Angle to be used in DASY system	337.0 ° $\pm$ 1 °
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Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

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

2. Common mode sensitivity

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	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

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	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	-

4. AD-Converter Values with inputs shorted

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

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

5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Input 10MΩ

	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

Nominal input circuitry offset current on all channels: <25fA

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 information)

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

9. Power Consumption (Typical values for information)

Typical values	Switched off (mA)	Stand by (mA)	Transmitting (mA)
Supply (+ Vcc)	+0.01	+6	+14
Supply (- Vcc)	-0.01	-8	-9

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Accreditation No.: SCS 0108

Client SGS-TW (Auden)

Certificate No: EX3-7509_Apr21

CALIBRATION CERTIFICATE

Object EX3DV4 - SN:7509

Calibration procedure(s) QA CAL-01.v9, QA CAL-14.v6, QA CAL-23.v5, QA CAL-25.v7
Calibration procedure for dosimetric E-field probes

Calibration date: April 26, 2021

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 (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)	Apr-22
Reference 20 dB Attenuator	SN: CC2552 (20x)	09-Apr-21 (No. 217-03343)	Apr-22
DAE4	SN: 660	23-Dec-20 (No. DAE4-660_Dec20)	Dec-21
Reference Probe ES3DV2	SN: 3013	30-Dec-20 (No. ES3-3013_Dec20)	Dec-21
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-21

Calibrated by: Name Jeton Kastrati Function Laboratory Technician Signature [Signature]

Approved by: Katja Pokovic Technical Manager [Signature]

Issued: May 13, 2021

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Certificate No: EX3-7509_Apr21

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EX3DV4 – SN:7509

April 26, 2021

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7509**Basic Calibration Parameters**

	Sensor X	Sensor Y	Sensor Z	Unc. (k=2)
Norm ($\mu\text{V}/(\text{V}/\text{m})^2$) ^A	0.59	0.63	0.69	$\pm 10.1\%$
DCP (mV) ^B	105.0	104.2	103.1	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB/ μV	C	D dB	VR mV	Unc. (k=2) ^C
0	CW	X	0.0	0.0	1.0	0.00	139.5	$\pm 3.3\%$
		Y	0.0	0.0	1.0		140.4	
		Z	0.0	0.0	1.0		129.2	

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 E_z-field uncertainty inside TSL (see Page 5).

^B Numerical linearization parameter: uncertainty not required.

^C 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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EX3DV4- SN:7509

April 26, 2021

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

Sensor Arrangement	Triangular
Connector Angle (°)	-67.4
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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EX3DV4-SN:7509

April 26, 2021

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

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^E	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth (mm) ^H	Unc (k=2)
750	41.9	0.89	10.29	10.29	10.29	0.42	0.96	± 12.0 %
835	41.5	0.90	9.97	9.97	9.97	0.48	0.85	± 12.0 %
900	41.5	0.97	9.78	9.78	9.78	0.31	1.11	± 12.0 %
1750	40.1	1.37	9.11	9.11	9.11	0.32	0.86	± 12.0 %
1900	40.0	1.40	8.74	8.74	8.74	0.38	0.86	± 12.0 %
2000	40.0	1.40	8.64	8.64	8.64	0.34	0.86	± 12.0 %
2300	39.5	1.67	8.31	8.31	8.31	0.28	0.90	± 12.0 %
2450	39.2	1.80	8.18	8.18	8.18	0.33	0.90	± 12.0 %
2600	39.0	1.96	7.97	7.97	7.97	0.38	0.90	± 12.0 %
3300	38.2	2.71	7.40	7.40	7.40	0.30	1.35	± 13.1 %
3500	37.9	2.91	7.26	7.26	7.26	0.35	1.35	± 13.1 %
3700	37.7	3.12	7.10	7.10	7.10	0.35	1.35	± 13.1 %
3900	37.5	3.32	6.85	6.85	6.85	0.40	1.60	± 13.1 %
4100	37.2	3.53	6.70	6.70	6.70	0.40	1.60	± 13.1 %
4200	37.1	3.63	6.60	6.60	6.60	0.40	1.60	± 13.1 %
4400	36.9	3.84	6.45	6.45	6.45	0.40	1.60	± 13.1 %
4600	36.7	4.04	6.39	6.39	6.39	0.40	1.60	± 13.1 %
4800	36.4	4.25	6.42	6.42	6.42	0.45	1.80	± 13.1 %
4950	36.3	4.40	6.21	6.21	6.21	0.40	1.80	± 13.1 %
5200	36.0	4.66	5.70	5.70	5.70	0.40	1.80	± 13.1 %
5300	35.9	4.76	5.45	5.45	5.45	0.40	1.80	± 13.1 %
5600	35.5	5.07	5.10	5.10	5.10	0.40	1.80	± 13.1 %
5800	35.3	5.27	5.20	5.20	5.20	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 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 126, 150 and 220 MHz respectively. Validity of ConvF assessed at 5 MHz is 4-9 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz.

^E 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.

^H 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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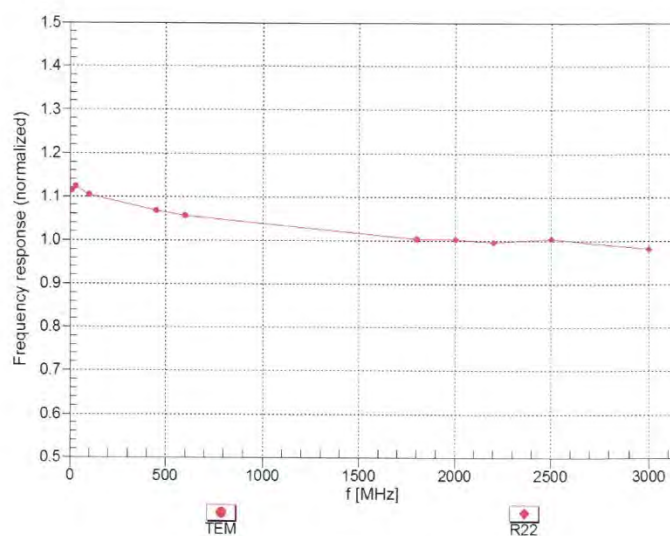
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EX3DV4- SN:7509

April 26, 2021

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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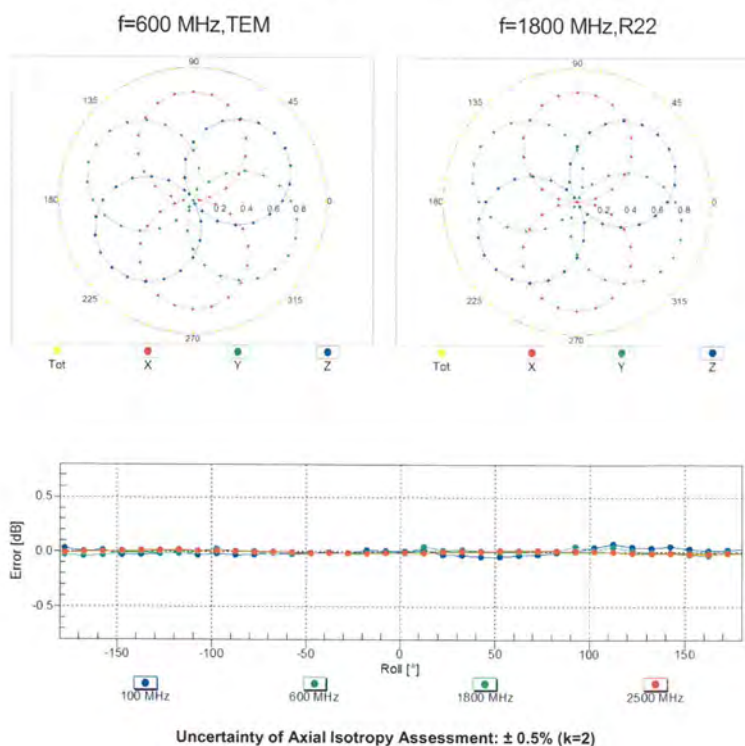
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EX3DV4- SN:7509

April 26, 2021

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



Certificate No: EX3-7509_Apr21

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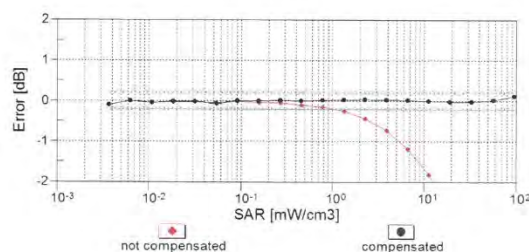
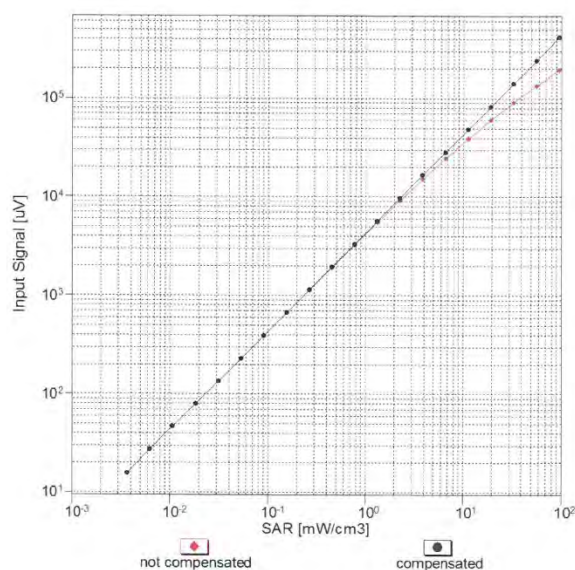
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April 26, 2021

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



Uncertainty of Linearity Assessment: $\pm 0.6\%$ ($k=2$)

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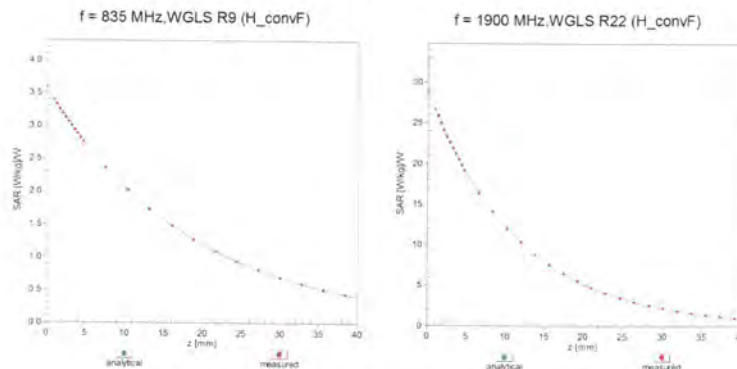
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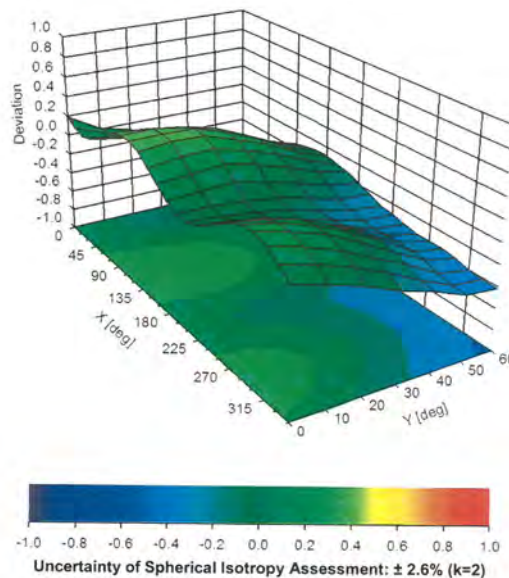
April 26, 2021

Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (ϕ, θ), $f = 900 \text{ MHz}$



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- End of report -

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