

Appendix B - DAE & Probe Calibration Certificate

	ch, Switzerland	The state state	Servizio svizzero di taratura Swiss Calibration Service
Accredited by the Swiss Accredit The Swiss Accreditation Servio Aultilateral Agreement for the	e is one of the signatories	to the EA	on No.: SCS 0108
Slient SGS-TW (Aud			No: DAE4-1751_Oct22
CALIBRATION	CERTIFICATE		
Object	DAE4 - SD 000 D	04 BP - SN: 1751	
Calibration procedure(s)	QA CAL-06.v30 Calibration procee	dure for the data acquisition ele	ectronics (DAE)
Calibration date:	October 10, 2022		
The measurements and the unco All calibrations have been condu	artainties with confidence pro	nal standards, which realize the physical is bability are given on the following pages is facility: environment temperature (22 ± 3)	and are part of the certificate.
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Calibration Laboratory of Schmid & Partner Engineering AG eughausstrasse 43, 8004 Zurich, Switzerland



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

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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

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

High Range:	1LSB =	6.1µV,	full range =	-100+300 mV
Low Range:	1LSB =	61nV .	full range =	-1+3mV

Calibration Factors	Х	Y	z
High Range	404.302 ± 0.02% (k=2)	404.269 ± 0.02% (k=2)	404.527 ± 0.02% (k=2)
Low Range	3.98457 ± 1.50% (k=2)	4.00027 ± 1.50% (k=2)	4.00784 ± 1.50% (k=2)

Connector Angle

Connector Angle to be used in DASY system	340.0 ° ± 1 °
Connector Angle to be used in DAST system	340.0 ± 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 + Ir	iput	200036.25	0.66	0.00
Channel X + In	put	20007.52	1.19	0.01
Channel X - In	put	-20003.85	2.01	-0.01
Channel Y + In	put	200035.89	0.08	0.00
Channel Y + In	put	20003.09	-3.21	-0.02
Channel Y - In	put	-20006.55	-0.59	0.00
Channel Z + In	put	200035.45	-0.19	-0.00
Channel Z + In	put	20003.52	-2.66	-0.01
Channel Z - In	put	-20006.78	-0.81	0.00

Low Range	Reading (µV)	Difference (µV)	Error (%)
Channel X + Input	2002.26	0.64	0.03
Channel X + Input	201.15	-0.44	-0.22
Channel X - Input	-199.15	-0.76	0.38
Channel Y + Input	2001.50	0.06	0.00
Channel Y + Input	200.34	-1.10	-0.55
Channel Y - Input	-199.55	-1.05	0.53
Channel Z + Input	2001.62	0.22	0.01
Channel Z + Input	200.62	-0.66	-0.33
Channel Z - Input	-199.61	-1.06	0.53

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	8.28	7.10
	- 200	-7.49	-8.93
Channel Y	200	12.71	12.19
	- 200	-14.20	-15.09
Channel Z	200	2.96	3.37
1.1.1	- 200	-5.66	-5.52

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	(e) (e)	0.78	-3.10
Channel Y	200	5.45		3.15
Channel Z	200	7.84	3.89	-

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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	15778	13017
Channel Y	16218	16504
Channel Z	16282	16531

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	0.18	-2.50	1.06	0.48
Channel Y	-0.78	-1.65	0.28	0.34
Channel Z	-0.59	-2.01	0.56	0.39

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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ient SGS-TW (Au	iden)	Certificate No	EX-7754_Oct22				
CALIBRATION C	ERTIFICATE						
Object	EX3DV4 - SN:77	754					
Calibration procedure(s)	QA CAL-01.v9, QA CAL-12.v9, QA CAL-14.v6, QA CAL-23.v5, QA CAL-25.v7 Calibration procedure for dosimetric E-field probes						
Calibration date	October 26, 202	October 26, 2022					
All calibrations have been co	nducted in the closed labora	e probability are given on the following p atory facility: environment temperature (;	pages and are part of the certificate.				
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Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland



Schweizerischer Kalibrierdienst S Service suisse d'étalonnage Servizio svizzero di taratura С s 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 φ	φ rotation around probe axis
Polarization ϑ	ϑ 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
Connector Angle	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 ∂ = 0 (I ≤ 900 MHz in TEM-cell; I > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E²-field uncertainty inside TSL (see below ConvF).
- below converts. NORM(N, 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
- + DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal. 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 $f \le 800$ 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
- Sensor Olfset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance require
- Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

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EX3DV4 - SN:7754

October 26, 2022

Parameters of Probe: EX3DV4 - SN:7754

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc $(k = 2)$
Norm (µV/(V/m)2) A	0.49	0.44	0.51	±10.1%
DCP (mV) B	98.4	96.4	98.4	±4.7%

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dBõV	с	D dB	VR mV	Max dev.	Max Unc ^E k = 2
0 CW	CW	X	0.00	0.00	1.00	0.00	164.5	±3.5%	±4.7%
		Y	0.00	0.00	1.00	166.5			
		Z	0.00	0.00	1.00		162.6	1	

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 Page 5). ^β Linearization parameter uncertainty for maximum specified field strength. ^E Uncertainty is determined using the max, deviation from linear response applying rectangular d se applying rectangular distribution and is expressed for the square of the field value.

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EX3DV4 - SN:7754

October 26, 2022

Parameters of Probe: EX3DV4 - SN:7754

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle	163.3°
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

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

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EX3DV4 - SN:7754

October 26, 2022

Parameters of Probe: EX3DV4 - SN:7754

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity ^F (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k = 2)
750	41.9	0.89	9,69	9.69	9.69	0.40	0.80	±12.0%
835	41.5	0.90	9.23	9.23	9.23	0.36	0.94	±12.0%
900	41.5	0.97	9.14	9.14	9.14	0.35	0.90	±12.0%
1450	40.5	1.20	8.30	8.30	8.30	0.35	0.80	±12.0%
1750	40.1	1.37	8.01	8.01	8.01	0.30	0.86	±12.0%
1900	40.0	1.40	7.78	7.78	7.78	0.29	0.86	±12.0%
2000	40.0	1.40	7.77	7.77	7.77	0.26	0.86	±12.0%
2300	39.5	1.67	7.73	7.73	7.73	0.22	0.90	±12.0%
2450	39.2	1.80	7.45	7.45	7.45	0.24	0.90	±12.0%
2600	39.0	1.96	7.15	7.15	7.15	0.32	0.90	±12.0%
3300	38.2	2.71	6.65	6.65	6.65	0.30	1.35	±13.1%
3500	37.9	2.91	6.60	6.60	6.60	0.30	1.35	±13.1%
3700	37.7	3.12	6.50	6.50	6.50	0.30	1.35	±13.1%
3900	37.5	3.32	6.05	6.05	6.05	0.40	1.60	±13.1%
4100	37.2	3.53	5.89	5.89	5.89	0.40	1.60	±13.1%
4200	37.1	3.63	5.79	5.79	5.79	0.40	1.70	±13.1%
4400	36.9	3.84	5.59	5.59	5.59	0.40	1.70	±13.1%
4600	36.7	4.04	5.53	5.53	5.53	0.40	1.70	±13.1%
4800	36.4	4.25	5.51	5.51	5.51	0.40	1.80	±13.1%
4950	36.3	4.40	5.23	5.23	5.23	0.40	1.80	±13.1%
5250	35.9	4.71	4.70	4.70	4.70	0.40	1.80	±13.1%
5600	35.5	5.07	4.34	4.34	4.34	0.40	1.80	±13.1%
5750	35.4	5.22	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 300 MHz is ±10, 25, 40, 80 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 80 MHz is ±-90 MHz, and ConvF assessed at 13 MHz is 9-190 MHz. Above 56 Hz frequency validity can be extended to ±110 MHz. F.At frequencies below 3 GHz, the validity of issue parameters (*c* and *o*) can be relaxed to ±10% if liquid compensation formula is applied to measured SAR values. At frequencies below 3 GHz, the validity of tissue parameters (*c* and *o*) 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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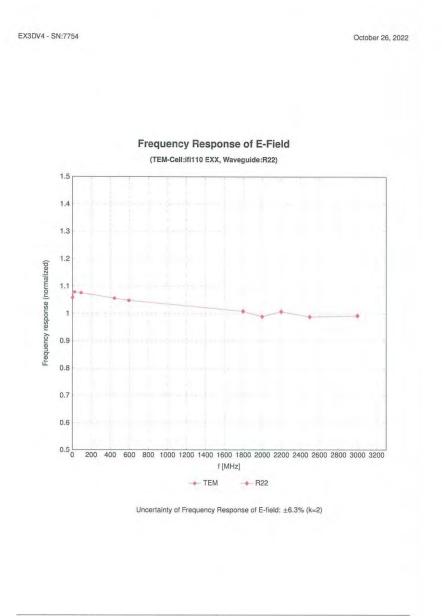
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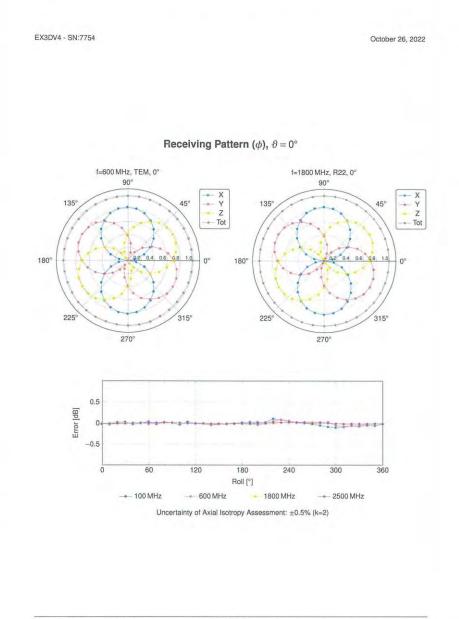
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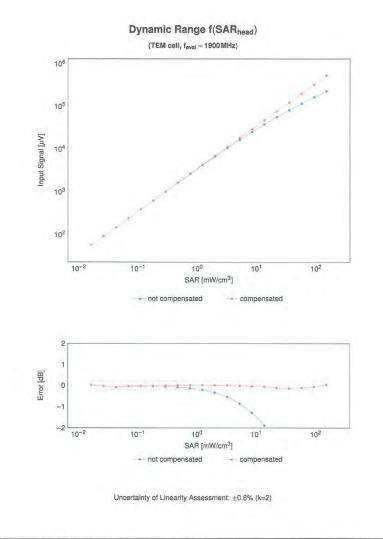
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October 26, 2022



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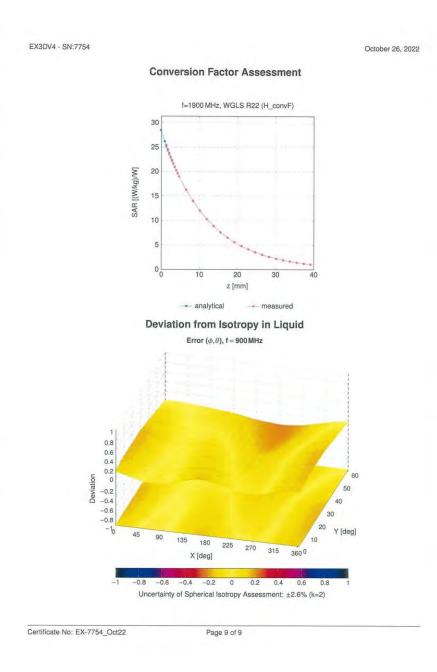
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