

Appendix B - DAE & Probe Calibration Certificate

Schmid & Partner Engineering AG Coughauestrasse 43, 8004 Zur	ory of		S Schweizerischer Kallbrierdienst C Service suisse d'éinionnage Service svizzero di torature S Swiss Calibration Service
Accredited by the Swiss Accredit The Swiss Accreditation Servi Multilatoral Agreement for the	oe is one of the signatorie	is to the EA	ation No.: SCS 0108
Client SGS-TW (Auc			In No: DAE4-877_Mar20
CALIBRATION	CERTIFICATI	E	
Object	DAE4 - SD 000 E	004 BN - SN: 877	
Calibration procedure(s)	QA CAL-06.v30 Calibration proce	dure for the data acquisition e	lectronics (DAE)
Calibration date:	March 17, 2020		
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No: DAE4-877_Mar20

Page 1 of 5

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Accredimiten No.: SCS 0108

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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.

Certificate No: DAE4-877_Mar20

Page 2 of 6

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DC Voltage Measurement

High Range:	1LSB =	16.1µV	full range =	-100.,.+300 mV
Low Range:	1LSB =	61nV	full range =	-1Ym&r1-
DASY measurement	parameters: Au	In Zero Time.	3 sec; Measuring	time: 3 sec

Calibration Factors	x	٧	Z
High Range	405.010 ± 0.02% (k=2)	404.578±0.02% (k=2)	405.015±0.02% (k=2)
Low Range	3.98182 ± 1.50% (k=2)	3,98256 ± 1,50% (k=2)	3.97085 ± 1.50% (k=2)

Connector Angle

onnector Angle to be used in DASY system	324.5 "±1"
ONNECTOF ANGLE TO DE DESUTIT LIPID E SYSTEM	GC4.0 -

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Report No. :ES/2020/80002 Rev: 01 Page: 4 of 14

Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

High Range	Reading (µV)	Difference (µV)	Error (%)
Channel X + Input	199994.99	1.01	0,00
Channel X + Input	20004.59	3.10	0.02
Channel X - Input	-19997.61	4,07	-0.02
Channel Y + Input	199995.27	1.92	0.00
Channel Y + Input	20003.49	2.17	0.01
Channel Y - Input	-20001.56	0.25	-0.00
Channel Z + Input	199996.44	2.69	0.00
Channel Z + Input	20003.96	2.57	0.01
Channel Z - Input	-20002.02	-0.26	0.00

Low Range	Reading (µV)	Difference (µV)	Error (%)
Channel X + Input	2000.96	-0.02	-0.00
Channel X + Input	201.04	-0.39	-0.19
Channel X - Input	-198.61	-0.21	0.11
Channel Y + Input	2001.45	0.50	.0.02
Channel Y + Input	200.09	-1.21	-0.60
Channel Y - Input	-199.84	-1.30	0.65
Channel Z + Input	2001,94	0.99	0.05
Channel Z + Input	199.79	-1.52	-0.76
Channel Z - Input	-199.14	-0.53	0.27
the second se			

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	15,06	13.17
	- 200	-11.97	-13.80
Channel Y	200	-19,28	19.62
	- 200	18.28	17.70
Channel Z	200	21.01	20.77
	- 200	-22,03	-22.76

3. Channel separation

	Input Voltage (mV)	Channel X (µV)	Channel Y (µV)	Channel Z (µV)
Channel X	200	1.	0.57	2.27
Channel Y	200	7.16	- 1	2.07
Channel Z	200	9.34	3,85	

Certificate No: DAE4-877 Mar20

Page 4 of 5

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Report No. :ES/2020/80002 Rev: 01 Page: 5 of 14

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	16005	16461
Channel Y	15882	17075
Channel 2	15740	17303

5. Input Offset Measurement

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

	Áverage (µV)	min. Offset (µV)	max. Offset (µV)	Std. Deviation (µV)
Channel X	1.20	-0.28	3.03	0.57
Channel Y	0.18	-1.82	7.39	0.56
Channel Z	0.60	-1.35	2.37	0.80

6. Input Offset Current

Nominal Input circuitry offset current on all channels: <25/A

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 (Typeal values for information)

Typical values	Alarm Level (VDC)
Supply (+ Vcc)	17.9
Supply (- Vec)	-7.6

9. Power Consumption (Typical values for information)

Typical values	Switched off (mA)	Stand by (mA)	Transmitting (mA)
Supply (+ Vcc)	+0.01	46	+14
Supply (- Vec)	-0.01	-8	٩

Certificate No: DAE4-877_Mar2D

Page 5 ol 5

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	tation Service (SAS) de is one of the signatories t recognition of calibration ce	a the EA	editation No.: SCS 0108				
Ient SGS-TW (Aud	len)	Dertificate No:	EX3-7509_Mar20				
CALIBRATION	CERTIFICATE						
Doject	EX3DV4 - SN:750	9					
Calibration procedure(s)		QA CAL-01.v9, QA CAL-14.v5, QA CAL-23.v5, QA CAL-25.v7 Calibration procedure for dosimetric E-field probes					
Calibration date:	March 25, 2020						
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Certificate No: EX3-7509 Mar20

Page 1 of 9

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Glossary:	
TSL	tissue simulating liquid
NORMK, y.z	sensitivity in free space
ConvF	sensitivity in TSL / NORMX, y.z.
DCP	diode compression paint
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization @	in rotation around probe axis.
Polarization 9	8 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
Connector Angle	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
- Absorption Rate (SAR) in the Human Head from Wrietess 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 c) KDB 965664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization 3 = 0 (F ≤ 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 E²-field uncertainty inside TSL (see below ConvF).
- NORM(f)x, y, z = NORM(x, 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 aignal (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 phentom using E-field (or Temperaturn Transfer Standard for 1 < 800 MHz) and inside waveguide using analytical field distributions based on power measurements for 1 > 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 Is NORMx, y,z * ConvF whereby the uncertainty consistent of the transfer of CONVF. A hisquincy depundent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 VHz.
- Spherical isotropy (3D deviation from isotropy): In a field of low gradients realized using a flat phontom exposed by a patch enternet.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement conter from the probe tip. (on probe axis). No tolerance required.
- Connector Angle: The angle is assessed using the information gained by determining the NORM# (null uncertainty required).

Certificate No: EX3-7509_Mar(20

Page 2 of 5

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EX3DV4 - 5N:7509

March 25, 2020

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) ⁴	0.51	.0.55	0.55	± 10,1 %
DCP (mV) ⁸	97.8	99.8	94.6	4.42.5

ulo	Communication System Name		A dB	B dBõV	c	D dB	VR mV	Max dev.	Und (ic=2)
0	CW	X	0.0	0.0	1.0	0.00	192,3	13,3 %	±47%
		Y	0.0	0.0	1.0		173.8		1.00
_		Z	0.0	0.0	1.0	1	174.8		

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%.

And a second second second

* The uncertainties of from X,Y,Z do not affect the E⁴ field uncertainty inside TSL (see Plage 6).
* Numerical investigation parameter uncertainty not required.
* Uncertainty is determined using the max. deviation from invest response applying notangular distribution and is expressed for the square of the need value.

Certificale No: EX3-7509_Mar20

Page 3 of 9

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EX3DV4- SN 7509

March 25, 2020

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

Sensor Arrangement	Triangular
Connector Angle (")	-17.6
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 Dameter	2.5 mm
Probe Tip to Sensor X Calibration Point	-1 min
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

Certificate No: EX3-7509_Mar20

Fage # of 9

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EX3DV4- \$1,7509

March 25, 2020

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

Calibration Parameter Determined in Head Tissue Simulating Media

r (MHz) ^c	Relative Permittivity*	Conductivity (S/m)	ConvF X	ConvF Y	ConvF 2	Alpha ^q	Depth [®] (mm)	Unc (k=2)
750	41.B	0.69	9.94	9,94	9,94	0,49	0.80	± 12.0 %
835	41.5	0.90	9.73	9.73	9,73	0,35	B9,0	±12.0 %
900	41.5	D.97	9.53	9.53	9.53	0.33	1,00	± 12.0 %
1750	40.1	1.37	8.34	8.34	8.34	0.32	0.85	±12.0%
1900	40.0	1.40	8.07	8.07	8.07	0.34	0.86	£ 12.0 %
2000	40.0	1.40	7.98	7.98	7.98	0.36	0,86	± 12.0 9
2100	39.5	1.67	7.78	7.75	7.76	0.31	0.90	± 12.0 0
2450	39.2	1.80	7.51	7.51	7.51	0.32	0.90	±12.0 %
2600	39.0	1.96	7.23	7.23	7.23	0.39	0.90	= 12.01
3300	38.2	2.71	6.80	5.80	8.80	0.30	1.35	= 13 1 1
3500	37.9	2.91	6.73	6.73	6.73	0.35	1.35	±13.1 5
3700	37.7	3.12	6.67	6,67	6.67	0.35	1:35	±13.15
3900	37.5	3,32	5.50	6.50	B.50	0.40	1.60	±13.1 5
4100	37.2	3.53	6.30	6.30	8.30	0.40	1.60	±13.15
4200	37.1	3.63	6.10	6.10	6.10	0.40	1:60	± 13.1 5
4400	36.0	3.84.	6:05	6.05	6.05	0.40	1.60	# 13:1 9
4600	36.7	4.04	0,02	8.02	6.02	0.40	1.60	+ 13.1 9
4800	36.4	4.25	5.07	5.97	5.07	0.40	1.80	± 13.1 5
4950	36.3	4.40	5.75	5.75	5.75	0.40	1.60	= 13 1 3
5200	36.0	4.66	5,33	5,33	5,33	0.40	1.80	= 13.1 3
5300	35.9	4.76	5.23	5.23	5.23	0.40	1,80	=1319
5600	35.5	5.07	4.64	4.64	4.64	0.40	1.80	115.13
5800	35.3	5.27	4.85	4.85	4.85	0.40	1.80	±13.14

Energiency which show 300 MHz of ± 100 MHz only applies to DASY v4.4 and higher (see Fagie 2), size it is restricted to ± 50 MHz. The uncertainty is the RBS of the ConvF uncertainty at coloration (sequency and the uncertainty to the indicated tenuency band. Prequency varidity below 300 MHz in 10, 25, 40, 50 and 70 MHz for ConvF assessed at 35 MHz. Aboys 3 GHz has performed at 20, 64, 528, 150 and 20 MHz in 200 MHz (at ConvF assessed at 35 MHz. Aboys 3 GHz has performed at 20, 64, 528, 150 and 20 MHz. The uncertainty is the RBS of the convF assessed at 15 MHz is 3-15 MHz. Aboys 3 GHz has performed at 20, 64, 528, 150 and 20 MHz. The uncertainty is the RBS of the convF assessed at 15 MHz is 3-15 MHz. Aboys 3 GHz has performed at 20 MHz. The uncertainty at the performance is a performed at 20 MHz. The uncertainty at the performance is a set of the task of the t ed al.

diameter from the boundary.

Certificale No: EX3-7609_Ma(20

Fage 5 of U

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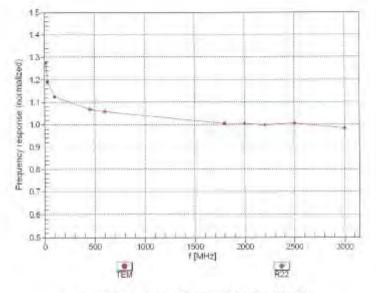


Report No. :ES/2020/80002 Rev: 01 Page: 11 of 14

EX3DV4- SN:7509

March 25, 2020

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



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

Certificate No: EX3-7509_Mar20

Page 8 of 9

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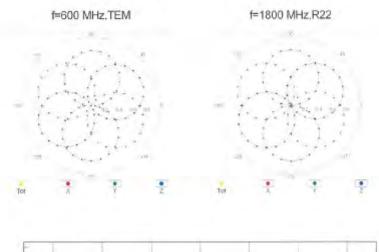
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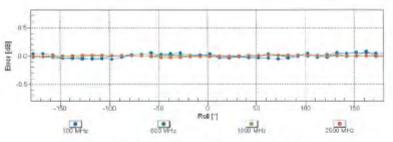
Report No. :ES/2020/80002 Rev: 01 Page: 12 of 14

EX3DV4- SN:7509

March 25, 2020



Receiving Pattern (\$), 9 = 0°





Certificate No: EX3-7509_Mar20 Page 7 of 9

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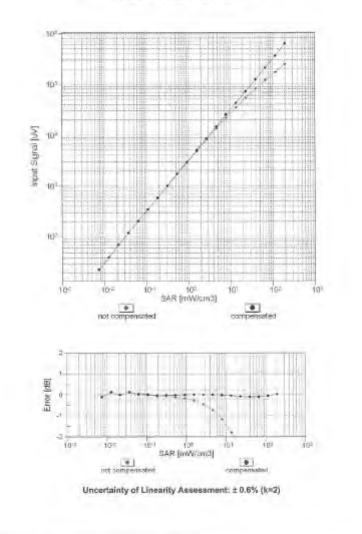


Report No. :ES/2020/80002 Rev: 01 Page: 13 of 14

EX30V4- SN 7509

March 25, 2020

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



Certificate No: EX3-7509 Mar20

Page 8 of 9

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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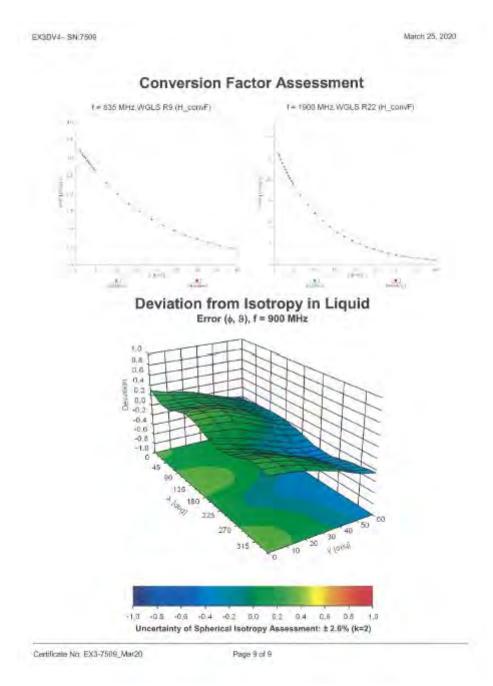
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Report No. :ES/2020/80002 Rev: 01 Page: 14 of 14



- End of report -

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