

Appendix B - DAE & Probe Calibration Certificate

Engineering AG eughausstrasse 43, 8004 Zuri	ry of ch, Switzerland		Service suisse d'étalonnage Servizio svizzero di taratura
Accredited by the Swiss Accredit The Swiss Accreditation Servi Multilateral Agreement for the	ce is one of the signatories	s to the EA	n No.: SCS 0108
Client SGS-TW (Aud			o: DAE4-547_Mar21
Object	DAE4 - SD 000 D		
Calibration procedure(s)	QA CAL-06.v30 Calibration proces	dure for the data acquisition elec	ctronics (DAE)
Calibration date:	March 22, 2021		
The measurements and the unce	ertainties with confidence pro	nai standards, which realize the physical un bbablity are given on the following pages ar facility: environment temperature (22 ± 3)°t	id are part of the certificate.
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S Schweizerischer Kalibrierdiens Service suisse d'étalonnage C Servizio svizzero di taratura S Swiss Calibration Service

Accreditation 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.

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DC Voltage Measurement

High Range:	1LSB =	6.1µV.	full range =	-100+300 mV
Low Range:	1LSB =	61nV .	9	-1 +3mV

Calibration Factors	х	Y	Z
High Range	403.238 ± 0.02% (k=2)	403.142 ± 0.02% (k=2)	402.790 ± 0.02% (k=2)
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Connector Angle

Connector Angle to be used in DASY system	91.0 ° ± 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 + In	nput	199991.34	-2.10	-0.00
Channel X + In	put	20004.99	2.69	0.01
Channel X - Inj	put	-19995.74	5.27	-0.03
Channel Y + In	put	199993.13	-0.50	-0.00
Channel Y + In	put	20000.35	-1.78	-0.01
Channel Y - Ing	out	-20002.85	-1.70	0.01
Channel Z + In	put	199993.84	0.47	0.00
Channel Z + In	put	20003.11	1.07	0.01
Channel Z - Inp	out	-19999.53	1.60	-0.01

Low Range	Reading (µV)	Difference (µV)	Error (%)
Channel X + Input	2002.71	1.19	0.06
Channel X + Input	201.98	0.16	0.08
Channel X - Input	-197.91	0.13	-0.06
Channel Y + Input	2002.62	1.21	0.06
Channel Y + Input	201.48	-0.27	-0.13
Channel Y - Input	-198.71	-0.63	0.32
Channel Z + Input	2001.46	0.15	0.01
Channel Z + Input	200.86	-0.79	-0.39
Channel Z - Input	-199.66	-1.52	0.77

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	-3.09	-4.68
	- 200	6.06	4.11
Channel Y	200	0.34	-0.92
	- 200	0.00	-0.56
Channel Z	200	5.49	5.38
	- 200	-7.60	-8.12

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	-	2.91	-2.37
Channel Y	200	10.58		3.71
Channel Z	200	5.72	8.46	

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4. AD-Converter Values with inputs shorted DAGY

	High Range (LSB)	Low Range (LSB)
Channel X	16355	14519
Channel Y	16461	15246
Channel Z	16084	17218

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	-0.07	-1.29	0.77	0.39
Channel Y	0.13	-0.60	1.22	0.37
Channel Z	0.61	-0.46	2.55	0.63

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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lient SGS-TW (Aud	den)	Certificate No:	EX3-3938_Feb21
CALIBRATION	CERTIFICATE	1. S	
Object	EX3DV4 - SN:393	8	
Calibration procedure(s)		A CAL-14.v6, QA CAL-23.v5, QA lure for dosimetric E-field probes	CAL-25.v7
Calibration date:	February 22, 2021		
The measurements and the un	certainties with confidence pro	bability are given on the following pages and a	are part of the certificate.
All calibrations have been cond	lucted in the closed laboratory	bability are given on the following pages and a facility: environment temperature (22 ± 3)°C a	
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All calibrations have been cond Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator	SN: 103244	facility: environment temperature (22 ± 3)°C a Cal Date (Certificate No.) 01-Apr-20 (No. 217-03100/03101) 01-Apr-20 (No. 217-03100)	Ind humidity < 70%. Scheduled Calibration Apr-21 Apr-21
All calibrations have been cond Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator DAE4	IUCted in the closed laboratory I&TE critical for calibration) ID SN: 104778 SN: 103245 SN: 103245 SN: CC2552 (20x) SN: 660	facility: environment temperature (22 ± 3)°C a Cal Date (Certificate No.) 01-Apr-20 (No. 217-03100/03101) 01-Apr-20 (No. 217-03100) 01-Apr-20 (No. 217-03101) 31-Mar-20 (No. 217-03105) 23-Dec-20 (No. DAE4-660_Dec20)	Scheduled Calibration Apr-21 Apr-21 Apr-21 Apr-21 Dec-21
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All calibrations have been cond Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 Secondary Standards Power meter E4419B	UCted in the closed laboratory IBTE critical for calibration) ID SN: 104778 SN: 103244 SN: 103245 SN: 022552 (20x) SN: 660 SN: 3013 ID	facility: environment temperature (22 ± 3)°C a Cal Date (Certificate No.) 01-Apr-20 (No. 217-03100/03101) 01-Apr-20 (No. 217-03100) 01-Apr-20 (No. 217-03100) 01-Apr-20 (No. 217-03106) 23-Dec-20 (No. DAE4-660_Dec20) 30-Dec-20 (No. ES3-3013_Dec20)	Scheduled Calibration Apr-21 Apr-21 Apr-21 Dec-21 Dec-21
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	Ucted in the closed laboratory IBTE critical for calibration) ID SN: 104778 SN: 103244 SN: 103245 SN: 03245 SN: 022552 (20x) SN: 660 SN: 3013 ID SN: GB41293874 SN: MY41498087 SN: NY41498087 SN: 00110210 SN: US3642U01700	facility: environment temperature (22 ± 3)°C a Cal Date (Certificate No.) 01-Apr-20 (No. 217-03100/03101) 01-Apr-20 (No. 217-03100) 01-Apr-20 (No. 217-03101) 31-Mar-20 (No. 217-03106) 23-Dec-20 (No. DAE4-660_Dec20) 30-Dec-20 (No. DAE4-660_Dec20) 30-Dec-20 (No. ES3-3013_Dec20) Check Date (in house) 06-Apr-16 (in house check Jun-20) 06-Apr-16 (in house check Jun-20) 06-Apr-16 (in house check Jun-20) 04-Aug-99 (in house check Jun-20)	Scheduled Calibration Apr-21 Apr-21 Apr-21 Dec-21 Dec-21 Dec-21 Scheduled Check In house check: Jun-22 In house check: Jun-22 In house check: Jun-22 In house check: Jun-22
All calibrations have been cond Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 Secondary Standards Power meter E44198 Power sensor E4412A Power sensor E4412A RF generator HP 8648C Network Analyzer E8358A	Jucted in the closed laboratory I&TE critical for calibration) ID SN: 104778 SN: 103245 SN: 103245 SN: CC2552 (20x) SN: 660 SN: 3013 ID SN: GB41293874 SN: WY41498087 SN: US3642U01700 SN: US41080477 Name	facility: environment temperature (22 ± 3)°C a Cal Date (Certificate No.) 01-Apr-20 (No. 217-03100/03101) 01-Apr-20 (No. 217-03100) 01-Apr-20 (No. 217-03100) 01-Apr-20 (No. 217-03100) 01-Apr-20 (No. 217-03100) 23-Dec-20 (No. 217-03106) 23-Dec-20 (No. 217-03106) 23-Dec-20 (No. 217-03101) 31-Mar-20 (No. 217-03106) Check Date (in house) 06-Apr-16 (in house) 06-Apr-16 (in house check Jun-20) 06-Apr-16 (in house check Jun-20) 04-Aug-99 (in house check Jun-20) 031-Mar-14 (in house check Oct-20)	nd humidity < 70%. Scheduled Calibration Apr-21 Apr-21 Apr-21 Apr-21 Dec-21 Dec-21 Scheduled Check In house check: Jun-22 In house check: Oct-21

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Calibration Laboratory of Schmid & Partner Engineering AG 43, 8004 Zurich, Switzerland



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Glossary:

b)

TSL tissue simulating liquid NORMx,y,z sensitivity in free space sensitivity in TSL / NORMx,y,z ConvF DCP diode compression point crest factor (1/duty_cycle) of the RF signal modulation dependent linearization parameters CF A, B, C, D Polarization ϕ 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 **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) 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 Techniques", June 2013 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 IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices c)
- 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 9 = 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 = 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 * 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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EX3DV4 - SN:3938

February 22, 2021

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3938

Basic Calibration Parameters

and the second s	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm $(\mu V/(V/m)^2)^A$	0,51	0.57	0.33	± 10.1 %
DCP (mV) ^B	103.9	100.8	109.0	

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dBõV	С	D dB	VR mV	Max dev.	Unc ^E (k=2)
0	CW	X	0.0	0.0	1.0	0.00	190.7	±2.7 %	± 4.7 %
		Y	0.0	0.0	1.0		183.4		
		Z	0.0	0.0	1.0		182.5		

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). ^{II} Numerical linearization parameter: uncertainty not required. ^E Uncertainty is determined using the max, deviation from linear response applying rectangular distribution and is expressed for the square of the Uncertainty is determined using the max. field value.

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EX3DV4- SN:3938

February 22, 2021

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3938

Other Probe Parameters Sensor Arrangement Triangular Connector Angle (°) 151.4 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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February 22, 2021

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	41.9	0.89	9.61	9.61	9.61	0,64	0.80	± 12,0 %
835	41.5	0.90	9.27	9.27	9.27	0.52	0.86	± 12.0 %
900	41.5	0.97	9.15	9.15	9.15	0.54	0.80	± 12.0 %
1450	40.5	1.20	8.58	8.58	8.58	0.37	0.80	± 12.0 %
1750	40.1	1.37	8.27	8.27	8.27	0.38	0.86	± 12.0 9
1900	40.0	1.40	7.96	7.96	7.96	0,37	0.86	± 12.0 %
2000	40.0	1.40	7.88	7.88	7.88	0.27	0.86	± 12.0 %
2300	39.5	1.67	7.71	7.71	7.71	0,33	0.90	± 12.0 %
2450	39.2	1.80	7.46	7.46	7.46	0.34	0.90	± 12.0 %
2600	39.0	1.96	7.24	7.24	7.24	0.39	0.90	± 12.0 %
3300	38.2	2.71	7.01	7.01	7.01	0,35	1.30	± 13.1 %
3500	37.9	2.91	6.86	6.86	6.86	0,35	1.30	± 13.1 9
3700	37.7	3.12	6.71	6.71	6.71	0.35	1.30	± 13.1 9
3900	37.5	3.32	6.53	6.53	6.53	0.40	1.60	± 13.1 %
4100	37.2	3.53	6.44	6.44	6.44	0.40	1.60	± 13.1 %
4200	37.1	3.63	6.35	6.35	6.35	0.35	1.60	± 13.1 %
4400	36.9	3.84	6.20	6.20	6.20	0.35	1.60	± 13.1 9
4600	36.7	4.04	6.15	6.15	6.15	0.40	1.60	± 13.1 %
4800	36.4	4.25	6.11	6.11	6.11	0.40	1.70	± 13.1 %
4950	36.3	4.40	5.96	5.96	5.96	0.40	1.80	± 13.1 %
5250	35.9	4.71	5.05	5,05	5,05	0.40	1.80	± 13.1 9
5600	35.5	5.07	4.66	4.66	4.66	0.40	1.80	± 13.1 %
5750	35.4	5.22	4.70	4.70	4.70	0.40	1.80	± 13.1 9

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3938

Calibration Parameter Determined in Head Tissue Simulating Media

^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, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 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. ^F At frequencies below 3 GHz, the validity of tissue parameters (s and n) 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 (s and n) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters. ^S Alpha7Depth 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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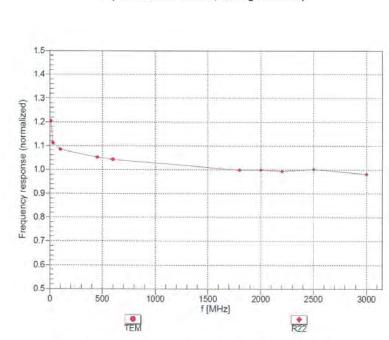
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Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)

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

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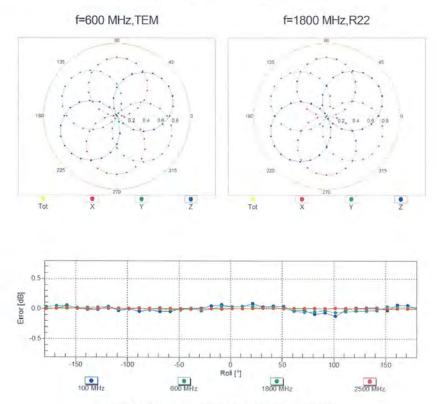
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Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$

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

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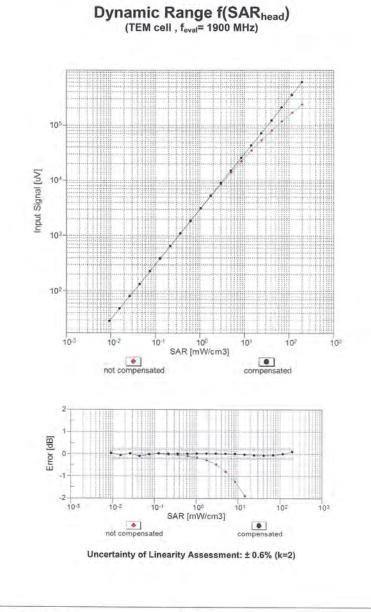
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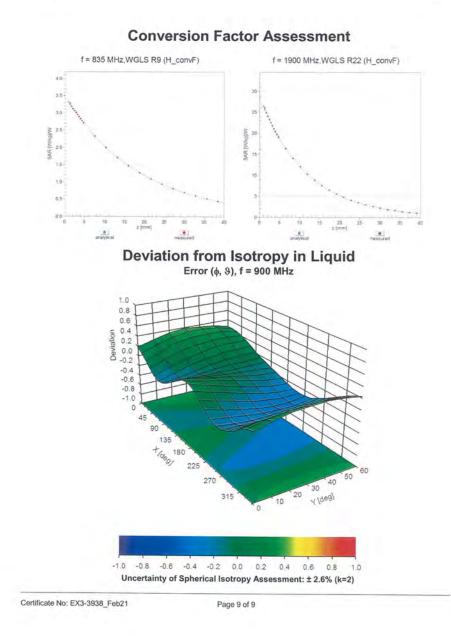
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- End of report -

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