

ANNEX B - RELEVANT PAGES FROM CALIBRATION REPORTS

DAE4 Sn:720

TTL Calibration with
SPERA
CALIBRATION LABORATORY

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Client: SRTC Certificate No: Z18-60399

CALIBRATION CERTIFICATE

Object: DAE4 - SN 720

Calibration Procedure(s): PP-211.612-01
Calibration Procedure for the Data Acquisition Electronics (DAE4)

Calibration date: October 15, 2018

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements(SI). The measurements and the associated with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closest laboratory facility; environment temperature(23±2°C) and humidity<75%.

Calibration Equipment used (MTC protocol for calibration)

Primary Standards	ID #	Cal/Date/Calibrated by: Certificate No.	Scheduled Calibration
Process Calibrator T53	1871018	20-Jun-18 JCTTL, No. J18K816104	June-19

Calibrated by: Name: Yu Zengping Function: SAR Test Engineer Signature: [Signature]

Reviewed by: Lin Fibo Function: SAR Test Engineer

Approved by: Qi Dianquan Function: SAR Project Leader

Issued: October 17, 2018

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

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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 report provide only calibration results for DAE, it does not contain other performance test results.

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DC Voltage Measurement
A/D - Conversion Resolution: nominal
High Range: 11.99 mV ± 0.1% Full Range: -100V ~ +100V mV
Low Range: 11.99 mV ± 0.1% Full Range: -1V ~ +1V mV
DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	X	Y	Z
High Range	483.542 ± 0.15% (k=2)	434.375 ± 0.15% (k=2)	433.208 ± 0.15% (k=2)
Low Range	0.80274 ± 0.7% (k=2)	0.80089 ± 0.7% (k=2)	0.80088 ± 0.7% (k=2)

Connector Angle

Connector Angle to be used in DAE4 system	20° ± 1°
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Certificate No: Z18-60399

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EX3DV4 Sn:3708 (1/7)

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PSEONG - 00-0709 October 22, 2018

 Probe EX3DV4

 SN:3708

 Manufactured: July 21, 2009
 Calibrated: October 22, 2018

 Calibrated for DASY/EASY Systems
 (probe non-compatible with DAQ72 system)

 Certificate No. 000-0709-0009 Page 3 of 38

E6000A, EN 3708		October 26, 2018			
DAS/EASY - Parameters of Probe: EX3DV4 - SN:3708					
Basic Calibration Parameters					
	Parameter X	Parameter Y	Parameter Z		
Y-axis gain (mV/div)	0.26	0.26	0.42		
Y-axis offset (mV)	0.0	0.0	0.0		
Modulation Calibration Parameters					
Modulation	Amplitude	Phase	Offset		
1	0.0	0.0	0.0		
2	0.0	0.0	0.0		
3	0.0	0.0	0.0		
4	0.0	0.0	0.0		
5	0.0	0.0	0.0		
6	0.0	0.0	0.0		
7	0.0	0.0	0.0		
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94	0.0	0.0	0.0		
95	0.0	0.0	0.0		
96	0.0	0.0	0.0		
97	0.0	0.0	0.0		
98	0.0	0.0	0.0		
99	0.0	0.0	0.0		
100	0.				

EX3DV4 Sn:3708 (2/7)

0000-0001-8550-970X

October 22, 2016

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3708

Catheter Parameter Determined in Feed Time-Simulating Media

Iteration	maximal FractWidth	maximal Inconsistency (IRR)	Count X	Count Y	Count Z	align*	Length X (bits)	Size (bits)
479	42.5	0.87	8.18	8.59	9.78	0.14	1.87	~ 15.7%
704	41.8	0.88	8.85	9.08	10.34	0.14	1.86	~ 15.8%
928	41.8	0.88	9.95	8.18	9.78	0.17	2.00	~ 16.0%
1152	40.3	1.20	8.80	8.90	9.58	0.15	0.87	~ 15.8%
1376	39.1	1.37	9.20	9.28	9.48	0.18	0.34*	~ 15.6%
1600	39.0	1.69	7.68	7.80	7.80	0.38	0.80	~ 16.8%
1824	39.0	1.63	7.88	7.80	7.80	0.74	0.07	~ 16.6%
2048	38.8	1.67	7.82	7.87	7.97	0.68	0.03	~ 16.5%
2272	38.9	1.68	7.82	7.53	7.73	0.68	0.04	~ 16.8%
2496	38.9	1.68	7.71	7.61	7.64	0.58	0.07	~ 16.8%
2720	38.3	1.88	6.98	6.68	6.65	0.46	0.08	~ 16.1%
2944	38.3	1.88	6.98	6.68	6.65	0.46	0.08	~ 16.1%
3168	37.5	1.87	6.94	6.84	6.90	0.40	1.45	~ 16.1%
3392	36.3	5.27	6.94	6.94	6.94	0.40	1.80	~ 16.3%

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October 22, 2016

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3708

Calibration Parameter Determined in Body Tissue Storing Media

[illegible][illegible]

Continued on p. 838, 839, 840

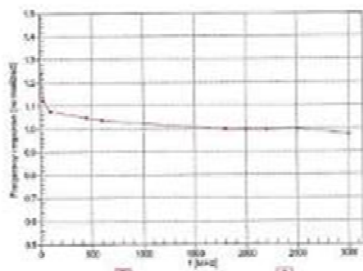
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FINANCIAL STATEMENTS

October 19, 2019

Frequency Response of E-Field

(TSM-Cell 110 EOX, Waveguide: R22)

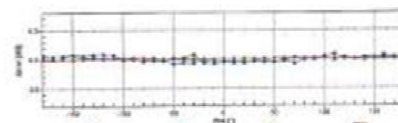
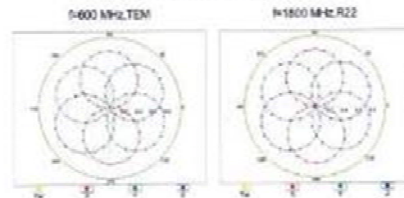
Uncertainty of Frequency Response of E-field: $\pm 0.3\%$ (143)

Certificate No. GPC-2006-0879

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Section 13. 1176

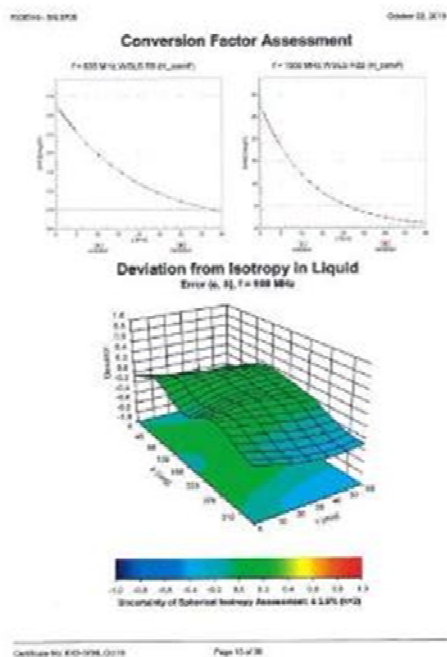
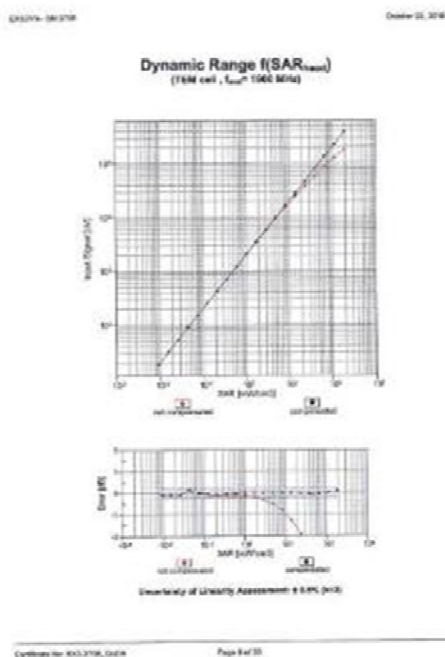
Receiving Pattern (4), $\theta = 0^\circ$ 

Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($n=2$)

Cytosine 5p: 603,178_603,181

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EX3DV4 Sn:3708 (3/7)



EX3DV4 - SN:3708 October 22, 2019

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3708

Other Probe Parameters	
Sensor Attachment	1 mm pin
Connector Angle (°)	3.5°
Multi-Input Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	6 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
Manufacturer's Measurement Distance from Surface	1.4 mm

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