Add: No.51 Xueyuan Road, Haidian District, Beijing, 100191, China Fax: +86-10-62304633-2504 Tel: +86-10-62304633-2512 Http://www.chinattl.cn E-mail: cttl@chinattl.com



Client:

SGS

Certificate No: Z20-60414

CALIBRATION CERTIFICATE

Object

DAE4 - SN: 1327

Calibration Procedure(s)

FF-Z11-002-01

Calibration Procedure for the Data Acquisition Electronics

(DAEx)

Calibration date:

October 20, 2020

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(Calibrated by, Certificate No.)	Scheduled Calibration
Process Calibrator 753	1971018	16-Jun-20 (CTTL, No.J20X04342)	Jun-21

Calibrated by:

Function Name

Yu Zongying

SAR Test Engineer

Reviewed by:

SAR Test Engineer Lin Hao

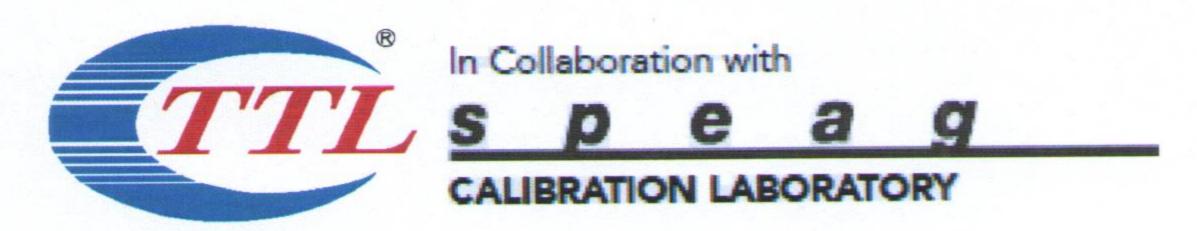
Approved by:

SAR Project Leader Qi Dianyuan

Issued: October 22, 2020

Signature

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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.

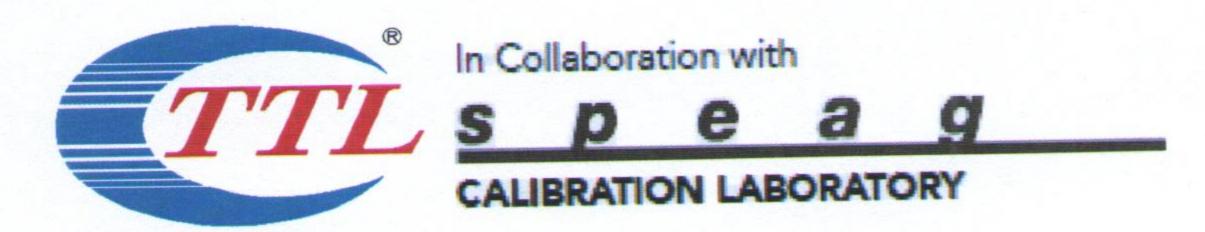
Methods Applied and Interpretation of Parameters:

 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.

Certificate No: Z20-60414

Page 2 of 3



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DC Voltage Measurement

A/D - Converter Resolution nominal

High Range: $1LSB = 6.1 \mu V$, full range = -100...+300 mVLow Range: 1LSB = 61 nV, full range = -1......+3 mVDASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

 Calibration Factors
 X
 Y
 Z

 High Range
 $404.909 \pm 0.15\%$ (k=2)
 $404.772 \pm 0.15\%$ (k=2)
 $404.955 \pm 0.15\%$ (k=2)

 Low Range
 $3.99242 \pm 0.7\%$ (k=2)
 $3.99109 \pm 0.7\%$ (k=2)
 $3.99644 \pm 0.7\%$ (k=2)

Connector Angle

Connector Angle to be used in DASY system	186.5° ± 1°
Commodul / mg.c to me	



In Collaboration with

s p e a g

CALIBRATION LABORATORY



Client

SGS

Certificate No: Z20-60364

CALIBRATION CERTIFICATE

Object

EX3DV4 - SN: 3982

Calibration Procedure(s)

FF-Z11-004-02

Calibration Procedures for Dosimetric E-field Probes

Calibration date:

October 28, 2020

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(Calibrated by, Certificate No.)	Scheduled Calibration	
Power Meter NRP2	101919	9	16-Jun-20(CTTL, No.J20X04344)	Jun-21	
Power sensor NRP-Z91	10154	7	16-Jun-20(CTTL, No.J20X04344)	Jun-21	
Power sensor NRP-Z91	101548	8	16-Jun-20(CTTL, No.J20X04344)	Jun-21	
Reference 10dBAttenua	tor 18N50	W-10dB	10-Feb-20(CTTL, No.J20X00525)	Feb-22	
Reference 20dBAttenua	tor 18N50	W-20dB	10-Feb-20(CTTL, No.J20X00526)	Feb-22	
Reference Probe EX3D'	V4 SN 730	07	29-May-20(SPEAG, No.EX3-7307_May2	May20) May-21	
DAE4	SN 15	56	4-Feb-20(SPEAG, No.DAE4-1556_Feb20	0) Feb-21	
Secondary Standards	ID#		Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration	
SignalGenerator MG370	00A 62010	52605	23-Jun-20(CTTL, No.J20X04343)	Jun-21	
Network Analyzer E507	IC MY461	10673	10-Feb-20(CTTL, No.J20X00515)	Feb-21	
Name			Function	Signature	
Calibrated by:	Yu Zongyin	ng	SAR Test Engineer	2-10	
Reviewed by:	Lin Hao		SAR Test Engineer	林林	
approved by: Qi Dianyuan		n	SAR Project Leader	20	
				CALLES MARS	

Issued: October 30, 2020

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