# APPENDIX C: RELEVANT PAGES FROM PROBE CALIBRATION REPORT(S)

Add: No.51 Xueyy Tel: +86-10-6230 E-mail: etil/gohin Client SMQ CALIBRATION C Calibration Procedure(s) Calibration date:	ERTIFIC	District, Beijing, 100191, Chin x: +86-10-62204633-2504 tp://www.chinattl.cn ATE DV4 - SN : 3881 :11-004-01	Certificate No:	Z20-60098
CALIBRATION C Object Calibration Procedure(s)	ERTIFIC/ EX3	DV4 - SN : 3681	Certificate No:	Z20-60098
Object Calibration Procedure(s)	EX3 FF-2	DV4 - SN : 3681		- The second
Calibration Procedure(s)	FF-2			
1975	3472/42	11.004.01		
Calibration date:		William I want to the second second	osimetric E-field Probes	
	June	16, 2020		
Il calibrations have been umidity<70%. Calibration Equipment used			y facility: environment	temperature(22±3)℃ and
rimary Standards	1D #	Cal Date(Calibr	ated by, Certificate No.)	Scheduled Calibration
Power Meter NRP2	101919	18-Jun-19(CTT	L, No.J19X05125)	
Power sensor NRP-Z91	101547		er more reverse revy	Jun-20
	10.5	N (26 2 2 1 ) 42 (26 2 )	L, No.J19X05125)	Jun-20 Jun-20
		18-Jun-19(CTT	L, No.J19X05125) L, No.J19X05125)	7576759
Reference 10dBAttenua	tor 18N50W	18-Jun-19(CTT /-10dB 10-Feb-20(CTT	<sup>-</sup> L, No.J19X05125) <sup>-</sup> L, No.J19X05125) <sup>-</sup> L, No.J20X00525)	Jun-20
Power sensor NRP-Z91 Reference 10dBAttenua Reference 20dBAttenua	tor 18N50W tor 18N50W	18-Jun-19(CTT I-10dB 10-Feb-20(CTT I-20dB 10-Feb-20(CTT	<sup>r</sup> L, No.J19X05125) <sup>r</sup> L, No.J19X05125) <sup>r</sup> L, No.J20X00525) <sup>r</sup> L, No.J20X00526)	Jun-20 Jun-20 Feb-22 Feb-22
Reference 10dBAttenua	tor 18N50W tor 18N50W	18-Jun-19(CTT J-10dB 10-Feb-20(CTT J-20dB 10-Feb-20(CTT 30-Jan-20(SPE	<sup>-</sup> L, No.J19X05125) <sup>-</sup> L, No.J19X05125) <sup>-</sup> L, No.J20X00525)	Jun-20 Jun-20 Feb-22 Feb-22 0/2) Jan-21
Reference 10dBAttenua Reference 20dBAttenua Reference Probe EX3D	tor 18N50W tor 18N50W V4 SN 3617	18-Jun-19(CTT -10dB 10-Feb-20(CTT -20dB 10-Feb-20(CTT -30-Jan-20(SPE -4-Feb-20(SPE)	TL, No.J19X05125) TL, No.J19X05125) TL, No.J20X00525) TL, No.J20X00526) FAG, No.EX3-3617_Jan2	Jun-20 Jun-20 Feb-22 Feb-22 0/2) Jan-21
Reference 10dBAttenua Reference 20dBAttenua Reference Probe EX3DV DAE4 Secondary Standards	tor 18N50W tor 18N50W V4 SN 3617 SN 1556	18-Jun-19(CTT -10dB 10-Feb-20(CTT -20dB 10-Feb-20(CTT -20dB 10-Feb-20(SPE 	L, No.J19X05125) L, No.J19X05125) L, No.J20X00525) L, No.J20X00526) AG, No.EX3-3617_Jan2 AG, No.DAE4-1556_Feb2	Jun-20 Jun-20 Feb-22 Feb-22 0/2) Jan-21 20) Feb-21
Reference 10dBAttenua Reference 20dBAttenua Reference Probe EX3DV DAE4 Secondary Standards SignalGenerator MG370	tor 18N50W tor 18N50W V4 SN 3617 SN 1556 ID # 00A 6201052	18-Jun-19(CTT -10dB 10-Feb-20(CTT -20dB 10-Feb-20(CTT -20dB 10-Feb-20(SPE 	L, No.J19X05125) L, No.J19X05125) FL, No.J20X00525) FL, No.J20X00526) EAG, No.EX3-3617_Jan2 AG, No.DAE4-1556_Feb2 ed by, Certificate No.)	Jun-20 Jun-20 Feb-22 Feb-22 0/2) Jan-21 20) Feb-21 Scheduled Calibration
Reference 10dBAttenua Reference 20dBAttenua Reference Probe EX3D/ DAE4	tor 18N50W tor 18N50W V4 SN 3617 SN 1556 ID # 00A 6201052	18-Jun-19(CTT -10dB 10-Feb-20(CTT -20dB 10-Feb-20(CTT -20dB 10-Feb-20(SPE 	L, No.J19X05125) L, No.J19X05125) FL, No.J20X00525) FL, No.J20X00526) EAG, No.EX3-3617_Jan2 AG, No.DAE4-1556_Feb2 red by, Certificate No.) L, No.J19X05127)	Jun-20 Jun-20 Feb-22 D/2) Jan-21 20) Feb-21 Scheduled Calibration Jun-20
Reference 10dBAttenua Reference 20dBAttenua Reference Probe EX3DV DAE4 Secondary Standards SignalGenerator MG370	tor 18N50W tor 18N50W V4 SN 3617 SN 1556 ID # ID # ID # IC MY4611	18-Jun-19(CTT 4-10dB 10-Feb-20(CTT 4-20dB 10-Feb-20(SPE) 30-Jan-20(SPE) Cal Date(Calibratic Cal Date(Calibratic 18-Jun-19(CTT 0673 10-Feb-20(CTT Function	L, No.J19X05125) L, No.J19X05125) IL, No.J20X00525) FL, No.J20X00526) FAG, No.EX3-3617_Jan2 AG, No.DAE4-1556_Feb; ed by, Certificate No.) L, No.J19X05127) FL, No.J20X00515)	Jun-20 Jun-20 Feb-22 D/2) Jan-21 20) Feb-21 Scheduled Calibration Jun-20 Feb-21
Reference 10dBAttenua Reference 20dBAttenua Reference Probe EX3DA DAE4 Secondary Standards SignalGenerator MG370 Network Analyzer E5071	tor 18N50W tor 18N50W V4 SN 3617 SN 1556 ID # ID # ID # ID # ID M A 6201052 IC MY4611 Name	18-Jun-19(CTT 4-10dB 10-Feb-20(CTT 4-20dB 10-Feb-20(SPE 30-Jan-20(SPE) Cal Date(Calibratic 18-Jun-19(CTT 0673 10-Feb-20(CTT Function	L, No.J19X05125) L, No.J19X05125) TL, No.J20X00525) FL, No.J20X00526) FAG, No.EX3-3617_Jan2 AG, No.DAE4-1556_Feb; ed by, Certificate No.) L, No.J19X05127) TL, No.J20X00515) sineer	Jun-20 Jun-20 Feb-22 0/2) Jan-21 20) Feb-21 Scheduled Calibration Jun-20 Feb-21

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#### Glossary:

tissue simulating liquid
sensitivity in free space
sensitivity in TSL / NORMx,y,z
diode compression point
crest factor (1/duty_cycle) of the RF signal
modulation dependent linearization parameters
Φ rotation around probe axis
θ rotation around an axis that is in the plane normal to probe axis (at measurement center), i
θ=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
- 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

#### 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 0=0 (f≤900MHz in TEM-cell; f>1800MHz; waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not effect the E<sup>2</sup>-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 (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; VRx,y,z:A,B,C 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 fs800MHz) and inside waveguide using analytical field distributions based on power measurements for f >800MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty valued 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±50MHz to±100MHz.
- 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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# DASY/EASY – Parameters of Probe: EX3DV4 – SN:3881

#### **Basic Calibration Parameters**

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm(µV/(V/m)2)^	0.27	0.27	0.35	±10.0%
DCP(mV) <sup>8</sup>	103.6	98.8	102.3	

#### Modulation Calibration Parameters

UID	Communication System Name		A dB	B dBõV	с	D dB	VR mV	Unc <sup>E</sup> (k=2)
0	CW	X	0.0	0.0	1.0	0.00	129.9	±2.2%
	Second.	Y	0.0	0.0	1.0		127.8	
		Z	0.0	0.0	1.0		147.3	

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%.

<sup>A</sup> The uncertainties of Norm X, Y, Z do not affect the E<sup>2</sup>-field uncertainty inside TSL (see Page 4 and Page 5).
 <sup>B</sup> Numerical linearization parameter: uncertainty not required.
 <sup>E</sup> Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

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# DASY/EASY - Parameters of Probe: EX3DV4 - SN:3881

#### Calibration Parameter Determined in Head Tissue Simulating Media

f [MHz] <sup>C</sup>	Relative Permittivity <sup>#</sup>	Conductivity (S/m) <sup>F</sup>	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>6</sup> (mm)	Unct. (k=2)
750	41.9	0.89	9.70	9.70	9.70	0.40	0.80	±12.1%
835	41.5	0.90	9.43	9.43	9.43	0.18	1.15	±12.1%
900	41.5	0.97	9.46	9.46	9.46	0.18	1.21	±12.1%
1750	40.1	1.37	8.30	8.30	8.30	0.20	1.13	±12.1%
1810	40.0	1.40	8.14	8.14	8.14	0.21	1.09	±12.1%
1900	40.0	1.40	7.92	7.92	7.92	0.21	1.18	±12.1%
2300	39.5	1.67	7.72	7.72	7.72	0.46	0.75	±12.19
2450	39.2	1.80	7.49	7.49	7.49	0.44	0.80	±12.19
2600	39.0	1.96	7.30	7.30	7.30	0.52	0.73	±12.19
3300	38.2	2.71	7.00	7.00	7.00	0.42	0.95	±13.39
3500	37.9	2.91	6.95	6.95	6.95	0.44	0.98	±13.39
3700	37.7	3.12	6.69	6.69	6.69	0.46	0.95	±13.39
3900	37.5	3.32	6.55	6.55	6.55	0.40	1.20	±13.3%
4200	37.1	3.63	6.38	6.38	6.38	0.35	1.33	±13.3%
4400	36.9	3.84	6.25	6.25	6.25	0.35	1.30	±13.3%
4600	36.7	4.04	6.20	6.20	6.20	0.40	1.30	±13.3%
4800	36.4	4.25	6.15	6.15	6.15	0.40	1.35	±13.39
4950	36.3	4.40	6.00	6.00	6.00	0.40	1.35	±13.39
5250	35.9	4.71	5.29	5.29	5.29	0.40	1.45	±13.3%
5600	35.5	5.07	4.70	4.70	4.70	0.45	1.50	±13.3%
5750	35.4	5.22	4.78	4.78	4.78	0.45	1.50	±13.3%

<sup>c</sup> Frequency validity above 300 MHz of ±100MHz only applies for DASY v4.4 and higher (Page 2), else it is restricted to ±50MHz. The uncertainty is the RSS of 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. Above 5 GHz frequency validity can be extended to ± 110 MHz.

<sup>F</sup> At frequency below 3 GHz, the validity of tissue parameters (ε and σ) 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 (ε and σ) is restricted to ±5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.
<sup>9</sup> 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 the frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

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## DASY/EASY – Parameters of Probe: EX3DV4 – SN:3881

#### Calibration Parameter Determined in Body Tissue Simulating Media

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f [MHz] <sup>C</sup>	Relative Permittivity <sup>r</sup>	Conductivity (S/m) <sup>F</sup>	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unct. (k=2)
750	55.5	0.96	9.82	9.82	9.82	0.40	0.80	±12.1%
835	55.2	0.97	9.51	9.51	9.51	0.24	1.17	±12.1%
1750	53.4	1.49	7.98	7.98	7.98	0.20	1.24	±12.1%
1810	53.3	1.52	7.92	7.92	7.92	0.18	1.27	±12.1%
1900	53.3	1.52	7.81	7.81	7.81	0.19	1.28	±12.1%
2300	52.9	1.81	7.64	7.64	7.64	0.46	0.87	±12.1%
2450	52.7	1.95	7.54	7.54	7.54	0.53	0.80	±12.1%
2600	52.5	2.16	7.28	7.28	7.28	0.59	0.72	±12.1%

<sup>C</sup> Frequency validity above 300 MHz of ±100MHz only applies for DASY v4.4 and higher (Page 2), else it is restricted to ±50MHz. The uncertainty is the RSS of 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. Above 5 GHz frequency validity can be extended to ± 110 MHz.

F At frequency below 3 GHz, the validity of tissue parameters (ε and σ) 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 (c and o) is restricted to ±5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters. <sup>a</sup> 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 the frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

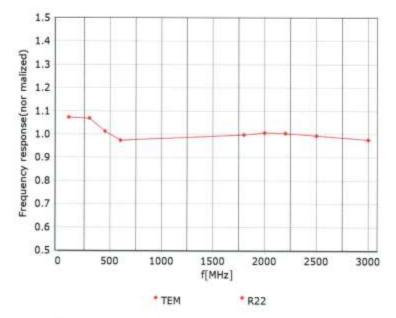
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# Frequency Response of E-Field (TEM-Cell: ifi110 EXX, Waveguide: R22)





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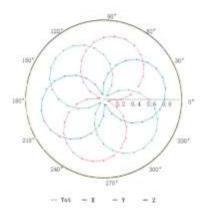


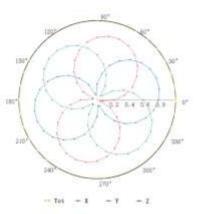
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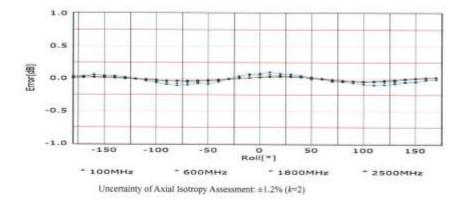
# Receiving Pattern (Φ), θ=0°

# f=600 MHz, TEM

f=1800 MHz, R22







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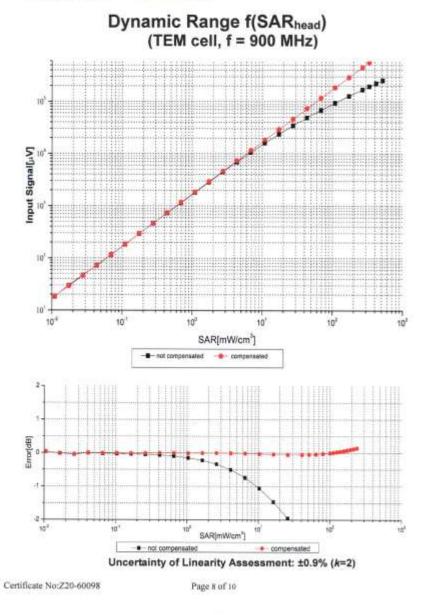
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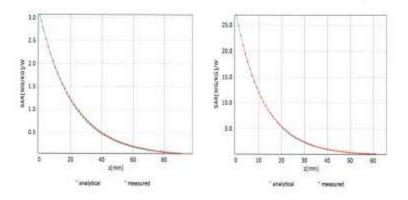




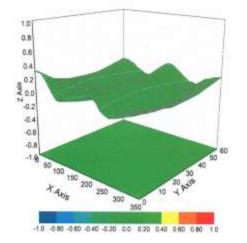
# **Conversion Factor Assessment**

f=750 MHz,WGLS R9(H\_convF)

f=1750 MHz,WGLS R22(H\_convF)



# Deviation from Isotropy in Liquid



Uncertainty of Spherical Isotropy Assessment: ±3.2% (k=2)

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# DASY/EASY - Parameters of Probe: EX3DV4 - SN:3881

#### Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	125.7
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disable
Probe Overall Length	337mm
Probe Body Diameter	10mm
Tip Length	10mm
Tip Diameter	2.5mm
Probe Tip to Sensor X Calibration Point	1mm
Probe Tip to Sensor Y Calibration Point	1mm
Probe Tip to Sensor Z Calibration Point	1mm
Recommended Measurement Distance from Surface	1.4mm

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E-mail: cttl@cf	ninattl.com	Http://www.chinattl.cn			
Client : SM			Certificate N	No: Z20-60099	
CALIBRATION	CERTIFIC	CATE	C TAN IN	the real	
Object	D	AE4 - SN: 876			
Calibration Procedure(s)	E	-Z11-002-01			
	Ca	alibration Procedure for the AEx)	Data Acquisit	tion Electronics	
Calibration date:	M	arch 03, 2020			
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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 report provide only calibration results for DAE, it does not contain other performance test results.

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 DC Voltage Measurement

 A/D - Converter Resolution nominal

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

 Low Range:
 1LSB =
 61nV,
 full range =
 -1.....+300 mV

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

 -100...+300 mV

Calibration Factors	x	Y	z
High Range	405.491 ± 0.15% (k=2)	405.147 ± 0.15% (k=2)	405.366 ± 0.15% (k=2)
Low Range	3.98945 ± 0.7% (k=2)	3.97202 ± 0.7% (k=2)	3.99785 ± 0.7% (k=2)

**Connector Angle** 

Connector Angle to be used in DASY system	182°±1°
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