#### **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.....+3mV

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

Calibration Factors	X	Y	Z
High Range	402.924 ± 0.02% (k=2)	403.325 ± 0.02% (k=2)	403.500 ± 0.02% (k=2)
Low Range	3.92577 ± 1.50% (k=2)	3.96310 ± 1.50% (k=2)	3.93738 ± 1.50% (k=2)

### **Connector Angle**

Connector Angle to be used in DASY system	251.5 ° ± 1 °

Appendix (Additional assessments outside the scope of SCS108)

#### 1. DC Voltage Linearity

High Range		Reading (µV)	Difference (µV)	Error (%)
Channel X + I	nput	200035.22	-0.20	-0.00
Channel X + I	nput	20002.19	-1.76	-0.01
Channel X - In	put	-20006.97	-1.35	0.01
Channel Y + I	nput	200035.19	0.15	0.00
Channel Y + I	nput	20005.73	1.84	0.01
Channel Y - In	put	-20002.94	2.72	-0.01
Channel Z + I	nput	200036.78	2.05	0.00
Channel Z + I	nput	20000.85	-2.98	-0.01
Channel Z - Ir	put	-20003.49	2.25	-0.01

Low Range	Reading (µV)	Difference (µV)	Error (%)
Channel X + Input	2000.07	-0.52	-0.03
Channel X + Input	200.34	-0.24	-0.12
Channel X - Input	-199.37	0.15	-0.07
Channel Y + Input	2000.14	-0.25	-0.01
Channel Y + Input	200.77	0.37	0.18
Channel Y - Input	-200.33	-0.64	0.32
Channel Z + Input	1999.30	-1.02	-0.05
Channel Z + Input	199.21	-1.07	-0.53
Channel Z - Input	-201.98	-2.27	1.13

### 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	-0.04	-1.94
	- 200	3.39	1.76
Channel Y	200	4.71	4.96
	- 200	-5.88	-6.27
Channel Z	200	-13.08	-13.58
	- 200	11.57	11.33

# 3. Channel separation

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

- Julia	Input Voltage (mV)	Channel X (μV)	Channel Υ (μV)	Channel Z (µV)
Channel X	200		1.84	-2.31
Channel Y	200	9.77	-	2.55
Channel Z	200	7.06	7.64	-

#### 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	16202	16482
Channel Y	16554	16428
Channel Z	15802	16416

#### 5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec Input  $10 M \Omega$ 

	Average (µV)	min. Offset (μV)	max. Offset (μV)	Std. Deviation (µV)
Channel X	-3.34	-4.82	-1.88	0.64
Channel Y	-1.07	-3.59	0.83	0.78
Channel Z	-0.53	-1.91	1.06	0.57

#### 6. Input Offset Current

Nominal Input circuitry offset current on all channels: <25fA

#### 7. Input Resistance (Typical values for information)

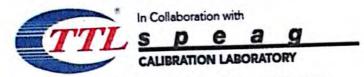
	Zeroing (kOhm)	Measuring (MOhm)
Channel X	200	200
Channel Y	200	200
Channel Z	200	200

### 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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Auden

Z14-97065 Certificate No:

Client CALIBRATION CERTIFICATE Object ES3DV3 - SN:3071 Calibration Procedure(s) TMC-OS-E-02-195 Calibration Procedures for Dosimetric E-field Probes September 01, 2014 Calibration date:

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.

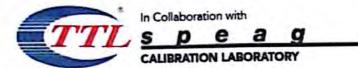
All calibrations have been conducted in the closed laboratory facility: environment temperature(22±3)°C and humidity<70%.

#### Calibration Equipment used (M&TE critical for calibration)

Cal Date(Calibrated by, Certificate N 01-Jul-14 (CTTL, No.J14X02146) 01-Jul-14 (CTTL, No.J14X02146) 01-Jul-14 (CTTL, No.J14X02146) 12-Dec-12(TMC,No.JZ12-867) 12-Dec-12(TMC,No.JZ12-866) 03-Sep-13(SPEAG,No.EX3-3846_S 23-Jan-14 (SPEAG, DAE4-1331_J Cal Date(Calibrated by, Certificate 01-Jul-14 (CTTL, No.J14X02145)	Jun-15 Jun-15 Jun-15 Dec-14 Dec-14 Sep13) Sep-14 Jan -15 No.) Scheduled Calibration Jun-15
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605 01-Jul-14 (CTTL, No.J14X02145)	Jun-15
0673 15-Feb-14 (TMC, No.JZ14-781)	Feb-15
Function	Signature
ing SAR Test Engineer	FAR Auto
an SAR Project Leader	SarO2/
Deputy Director of the laboration	atory 12 wists
	ied: September 02, 2014
	Deputy Director of the labor

Certificate No: Z14-97065

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#### Glossary:

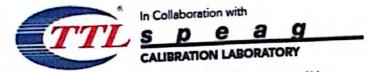
TSL	tissue simulating liquid
NORMx,y,z	sensitivity in free space
ConvF	sensitivity in TSL / NORMx,y,z
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A,B,C,D	modulation dependent linearization parameters
Polarization Φ	Φ rotation around probe axis
Polarization 0	θ rotation around an axis that is in the plane normal to probe axis (at measurement center), i
	$\theta=0$ 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, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300MHz to 3GHz)", February 2005

#### Methods Applied and Interpretation of Parameters:

- NORMx, y,z: Assessed for E-field polarization θ=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 f≤800MHz) 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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# Probe ES3DV3

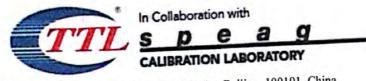
# SN: 3071

Calibrated: September 01, 2014

Calibrated for DASY/EASY Systems

(Note: non-compatible with DASY2 system!)

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# DASY – Parameters of Probe: ES3DV3 - SN: 3071

# **Basic Calibration Parameters**

	Sensor X	Sensor Y	Sensor Z	Unc (k=2) ±10.8%	
		1.13	0.95		
Norm(µV/(V/m) <sup>2</sup> ) <sup>A</sup>	1.03				
DCP(mV) <sup>B</sup>	103.7	103.1	103.3		

# **Modulation Calibration Parameters**

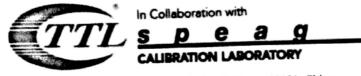
UID	Communication System Name		A dB	B dBõV	c	D dB	VR mV	Unc <sup>E</sup> (k=2)
0 CW		X	0.0	0.0	1.0	0.00	279.7	±2.3%
	CVV	~ •	1.0		295.5			
			z	0.0	0.0	1.0		263.2

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 5 and Page 6). <sup>B</sup> Numerical linearization parameter: uncertainty not required.

<sup>E</sup> Uncertainly 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 – Parameters of Probe: ES3DV3 - SN: 3071

f [MHz] <sup>C</sup>	Relative Permittivity <sup>F</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	41.9	0.89	5.96	5.96	5.96	2.41	0.79	$\pm$ 12%
850	41.5	0.92	5.69	5.69	5.69	0.42	1.47	$\pm$ 12%
900	41.5	0.97	5.79	5.79	5.79	0.42	1.52	±12%
1450	40.5	1.20	5.58	5.58	5.58	0.33	1.64	±12%
1750	40.1	1.37	5.08	5.08	5.08	0.46	1.61	±12%
1900	40.0	1.40	4.87	4.87	4.87	0.51	1.51	±12%
2000	40.0	1.40	4.94	4.94	4.94	0.70	1.28	±12%
2300	39.5	1.67	4.65	4.65	4.65	0.83	1.14	±12%
2450	39.2	1.80	4.47	4.47	4.47	1.08	1.01	±12%
2600	39.0	1.96	4.33	4.33	4.33	0.83	1.15	±12%

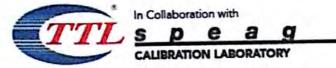
# Calibration Parameter Determined in Head Tissue Simulating Media

<sup>c</sup> Frequency validity 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.
 <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>G</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than  $\pm$  1% for frequencies below 3 GHz and below  $\pm$  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 – Parameters of Probe: ES3DV3 - SN: 3071

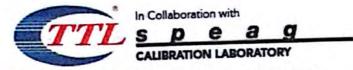
f [MHz] <sup>C</sup>	Relative Permittivity <sup>F</sup>	Conductivity (S/m) <sup>F</sup>	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unct. (k=2)
750	55.5	0.96	5.92	5.92	5.92	0.78	1.17	±12%
850	55.2	0.99	5.80	5.80	5.80	0.31	1.85	±12%
900	55.0	1.05	5.75	5.75	5.75	0.53	1.39	±12%
1450	54.0	1.30	5.10	5.10	5.10	0.46	1.56	±12%
1750	53.4	1.49	4.89	4.89	4.89	0.41	1.80	±12%
1900	53.3	1.52	4.49	4.49	4.49	0.43	1.77	±12%
2000	53.3	1.52	4.71	4.71	4.71	0.62	1.36	±12%
2300	52.9	1.81	4.31	4.31	4.31	0.64	1.42	±12%
2450	52.7	1.95	4.18	4.18	4.18	0.72	1.33	±12%
2600	52.5	2.16	4.01	4.01	4.01	0.81	1.23	±12%

# Calibration Parameter Determined in Body Tissue Simulating Media

<sup>C</sup> Frequency validity 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.
 <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>G</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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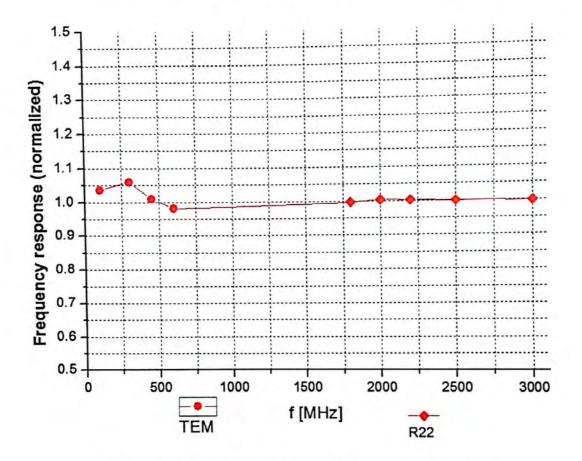
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# Frequency Response of E-Field (TEM-Cell: ifi110 EXX, Waveguide: R22)

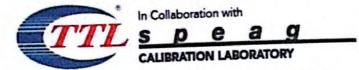


Uncertainty of Frequency Response of E-field: ±7.5% (k=2)

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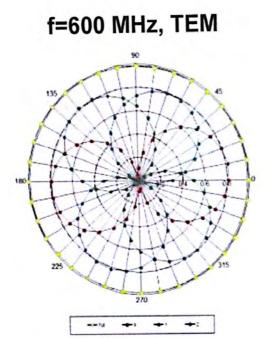
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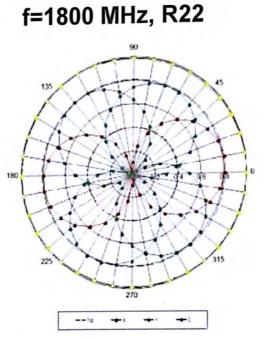
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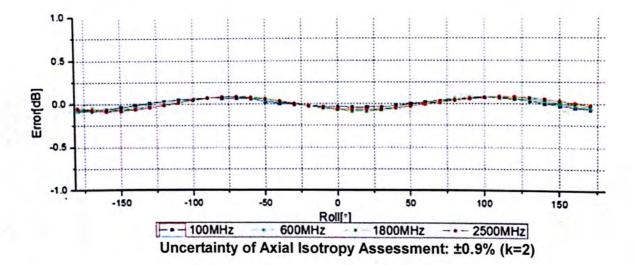


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# Receiving Pattern ( $\Phi$ ), $\theta$ =0°



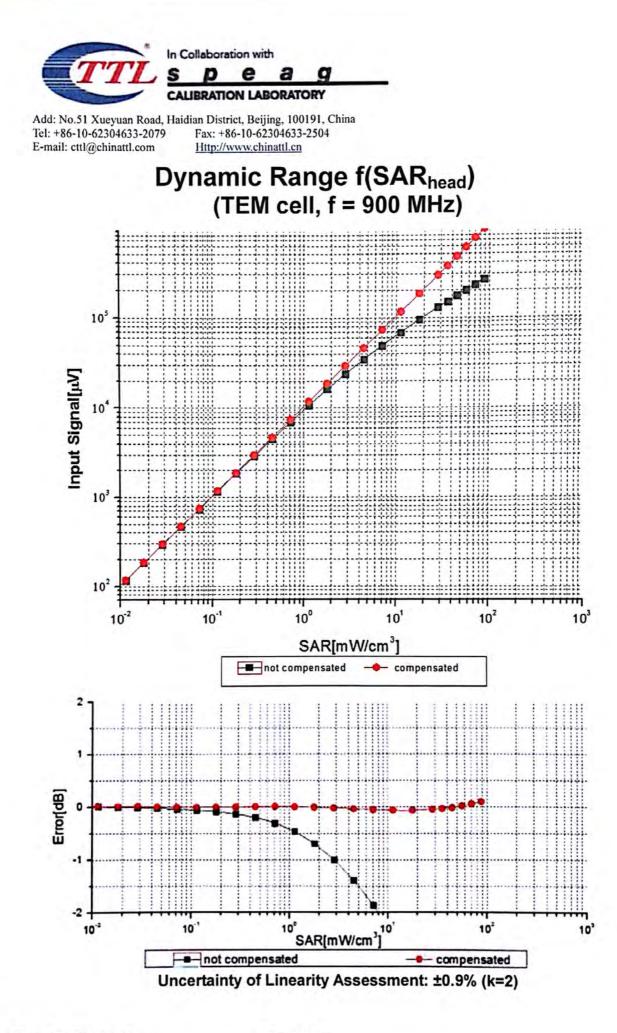




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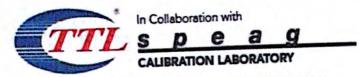
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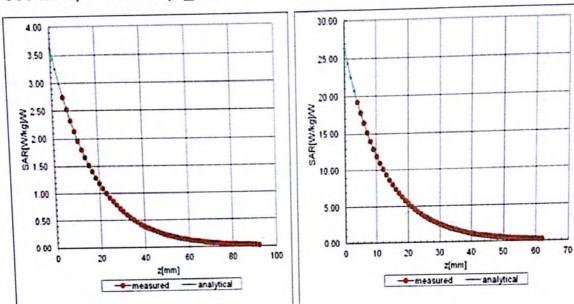


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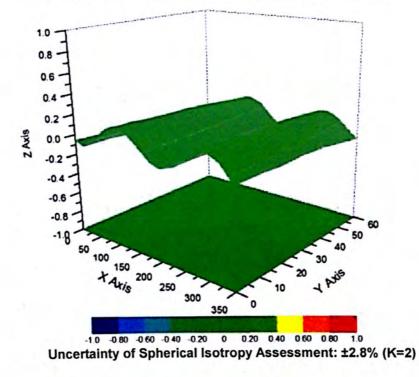
# **Conversion Factor Assessment**

f=900 MHz, WGLS R9(H\_convF)

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



# **Deviation from Isotropy in Liquid**



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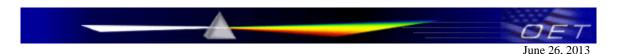
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# DASY - Parameters of Probe: ES3DV3 - SN: 3071

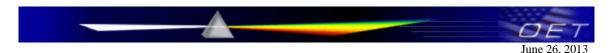
Other Probe Parameters	
Sensor Arrangement	Triangular
Connector Angle (°)	72.4
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disable
Probe Overall Length	337mm
Probe Body Diameter	10mm
Tip Length	10mm
Tip Diameter	4mm
Probe Tip to Sensor X Calibration Point	2mm
Probe Tip to Sensor Y Calibration Point	2mm
Probe Tip to Sensor Z Calibration Point	2mm
Recommended Measurement Distance from Surface	3mm



#### Acceptable Conditions for SAR Measurements Using Probes and Dipoles Calibrated under the SPEAG-TMC Dual-Logo Calibration Program to Support FCC Equipment Certification

The acceptable conditions for SAR measurements using probes, dipoles and DAEs calibrated by TMC (*Telecommunication Metrology Center of MITT in Beijing, China*), under the Dual-Logo Calibration Certificate program and quality assurance (QA) protocols established between SPEAG (*Schmid & Partner Engineering AG, Switzerland*) and TMC, to support FCC (*U.S. Federal Communications Commission*) equipment certification are defined and described in the following.

- The agreement established between SPEAG and TMC is only applicable to calibration services performed by TMC where its clients (companies and divisions of such companies) are headquartered in the Greater China Region, including Taiwan and Hong Kong. This agreement is subject to renewal at the end of each calendar year between SPEAG and TMC. TMC shall inform the FCC of any changes or early termination to the agreement.
- 2) Only a subset of the calibration services specified in the SPEAG-TMC agreement, while it remains valid, are applicable to SAR measurements performed using such equipment for supporting FCC equipment certification. These are identified in the following.
  - a) Calibration of dosimetric (SAR) probes EX3DVx, ET3DVx and ES3DVx.
    - i) Free-space E-field and H-field probes, including those used for HAC (hearing aid compatibility) evaluation, temperature probes, other probes or equipment not identified in this document, when calibrated by TMC, are excluded and cannot be used for measurements to support FCC equipment certification.
    - Signal specific and bundled probe calibrations based on PMR (probe modulation response) characteristics are handled according to the requirements of KDB 865664; that is, "Until standardized procedures are available to make such determination, the applicability of a signal specific probe calibration for testing specific wireless modes and technologies is determined on a case-by-case basis through KDB inquiries, including SAR system verification requirements."
  - b) Calibration of SAR system validation dipoles, excluding HAC dipoles.
  - c) Calibration of data acquisition electronics DAE3Vx, DAE4Vx and DAEasyVx.
  - d) For FCC equipment certification purposes, the frequency range of SAR probe and dipole calibrations is limited to 700 MHz 6 GHz and provided it is supported by the equipment identified in the TMC QA protocol (a separate attachment to this document).
  - e) The identical system and equipment setup, measurement configurations, hardware, evaluation algorithms, calibration and QA protocols, including the format of calibration certificates and reports used by SPEAG shall be applied by TMC.
  - f) The calibrated items are only applicable to SPEAG DASY 4 and DASY 5 or higher version systems.



- 3) The SPEAG-TMC agreement includes specific protocols identified in the following to ensure the quality of calibration services provided by TMC under this SPEAG-TMC Dual-Logo calibration agreement are equivalent to the calibration services provided by SPEAG. TMC shall, upon request, provide copies of documentation to the FCC to substantiate program implementation.
  - a) The Inter-laboratory Calibration Evaluation (ILCE) stated in the TMC QA protocol shall be performed between SPEAG and TMC at least once every 12 months. The ILCE acceptance criteria defined in the TMC QA protocol shall be satisfied for the TMC, SPEAG and FCC agreements to remain valid.
  - b) Check of Calibration Certificate (CCC) shall be performed by SPEAG for all calibrations performed by TMC. Written confirmation from SPEAG is required for TMC to issue calibration certificates under the SPEAG-TMC Dual-Logo calibration program. Quarterly reports for all calibrations performed by TMC under the program are also issued by SPEAG.
  - c) The calibration equipment and measurement system used by TMC shall be verified before each calibration service according to the specific reference SAR probes, dipoles, and DAE calibrated by SPEAG. The results shall be reproducible and within the defined acceptance criteria specified in the TMC QA protocol before each actual calibration can commence. TMC shall maintain records of the measurement and calibration system verification results for all calibrations.
  - d) Quality Check of Calibration (QCC) certificates shall be performed by SPEAG at least once every 12 months. SPEAG shall visit TMC facilities to verify the laboratory, equipment, applied procedures and plausibility of randomly selected certificates.
- 4) A copy of this document, to be updated annually, shall be provided to TMC clients that accept calibration services according to the SPEAG-TMC Dual-Logo calibration program, which should be presented to a TCB (*Telecommunication Certification Body*), to facilitate FCC equipment approval.
- TMC shall address any questions raised by its clients or TCBs relating to the SPEAG-TMC Dual-Logo calibration program and inform the FCC and SPEAG of any critical issues.

Change Note: Revised on June 26 to clarify the applicability of PMR and Bundled probe calibrations according to the requirements of KDB 865664.



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# Appendix D

# Photographs

1. SAR measurement System

2. Photographs of Tissue Simulate Liquid

3. Photographs of EUT test position

4. EUT Constructional Details

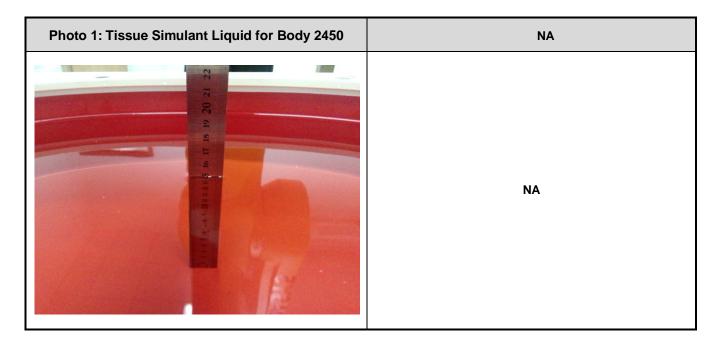


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# 1. SAR measurement System:



2. Photographs of Tissue Simulate Liquid





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# 3. Photographs of EUT test position



# 4. EUT Constructional Details

