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DASY/EASY – Parameters of Probe: EX3DV4 – SN:3805

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc ($k=2$)
Norm($\mu V/(V/m)^2$) ^A	0.49	0.63	0.45	$\pm 10.0\%$
DCP(mV) ^B	101.4	97.7	101.4	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB $\sqrt{\mu V}$	C	D dB	VR mV	Unc ^E ($k=2$)
0	CW	X	0.0	0.0	1.0	0.00	169.0	$\pm 2.5\%$
		Y	0.0	0.0	1.0		189.9	
		Z	0.0	0.0	1.0		155.5	

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 E^2 -field uncertainty inside TSL (see Page 4).

^B 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 field value.





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Calibration Parameter Determined in Head Tissue Simulating Media

f [MHz] ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unct. (k=2)
750	41.9	0.89	9.66	9.66	9.66	0.14	1.30	±12.7%
835	41.5	0.90	9.26	9.26	9.26	0.13	1.43	±12.7%
1750	40.1	1.37	8.16	8.16	8.16	0.23	1.09	±12.7%
1900	40.0	1.40	7.85	7.85	7.85	0.24	1.04	±12.7%
2000	40.0	1.40	7.83	7.83	7.83	0.22	1.13	±12.7%
2300	39.5	1.67	7.66	7.66	7.66	0.40	0.87	±12.7%
2450	39.2	1.80	7.42	7.42	7.42	0.36	0.94	±12.7%
2600	39.0	1.96	7.17	7.17	7.17	0.39	0.97	±12.7%
3300	38.2	2.71	7.01	7.01	7.01	0.47	0.90	±13.9%
3500	37.9	2.91	6.87	6.87	6.87	0.45	1.02	±13.9%
3700	37.7	3.12	6.65	6.65	6.65	0.35	1.25	±13.9%
3900	37.5	3.32	6.60	6.60	6.60	0.40	1.25	±13.9%
4100	37.2	3.53	6.54	6.54	6.54	0.40	1.15	±13.9%
4200	37.1	3.63	6.45	6.45	6.45	0.35	1.35	±13.9%
4400	36.9	3.84	6.36	6.36	6.36	0.40	1.25	±13.9%
4600	36.7	4.04	6.26	6.26	6.26	0.40	1.30	±13.9%
4800	36.4	4.25	6.20	6.20	6.20	0.40	1.38	±13.9%
4950	36.3	4.40	5.95	5.95	5.95	0.40	1.40	±13.9%
5250	35.9	4.71	5.38	5.38	5.38	0.40	1.50	±13.9%
5600	35.5	5.07	4.75	4.75	4.75	0.50	1.30	±13.9%
5750	35.4	5.22	4.88	4.88	4.88	0.45	1.40	±13.9%

^C 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 up to 6 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ±10% if liquid compensation formula is applied to measured SAR values. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

^G 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.



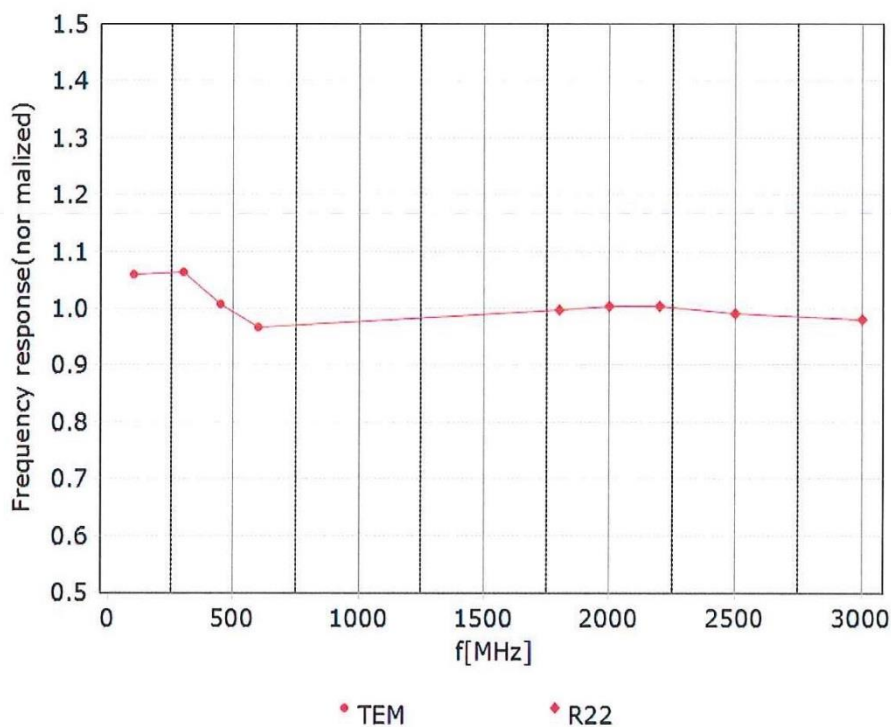


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Frequency Response of E-Field (TEM-Cell: ifi110 EXX, Waveguide: R22)



Uncertainty of Frequency Response of E-field: $\pm 7.4\%$ ($k=2$)





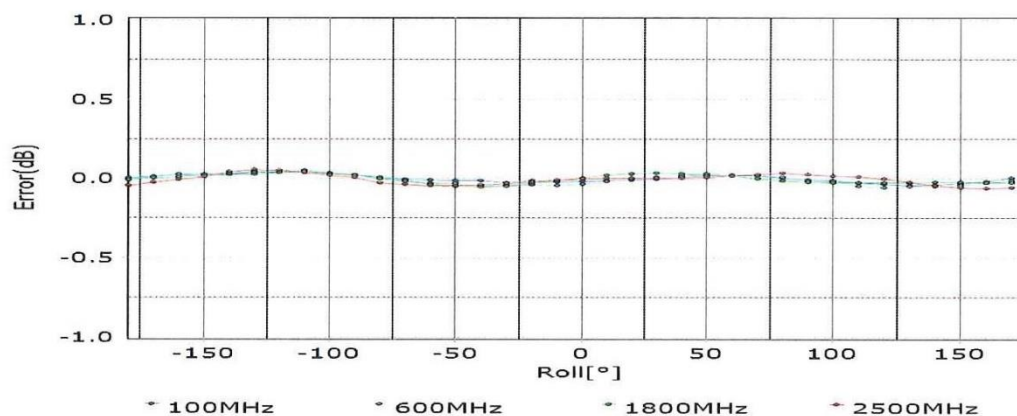
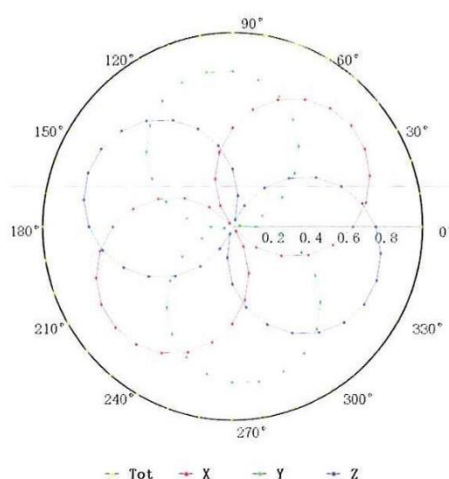
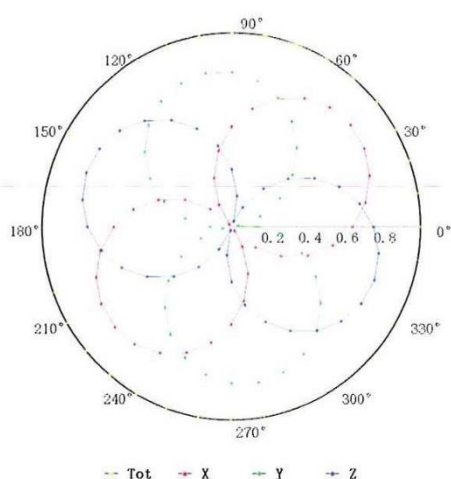
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Receiving Pattern (Φ), $\theta=0^\circ$

f=600 MHz, TEM**f=1800 MHz, R22**Uncertainty of Axial Isotropy Assessment: $\pm 1.2\%$ ($k=2$)

Certificate No:24J02Z80102

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Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

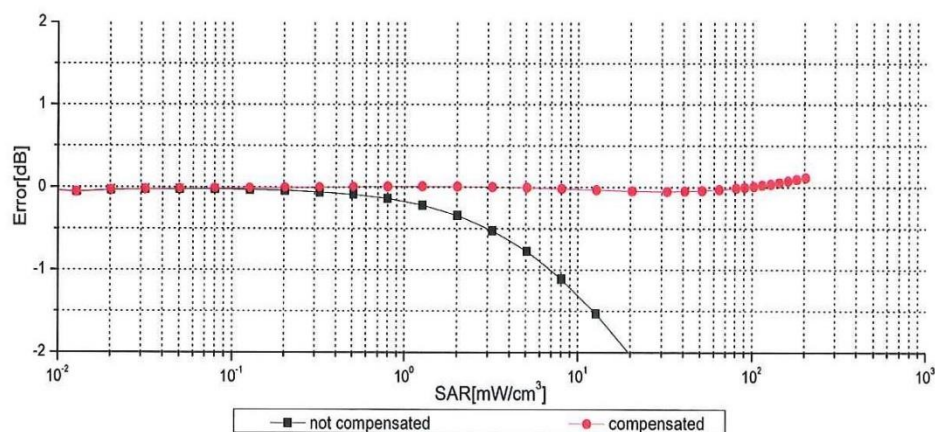
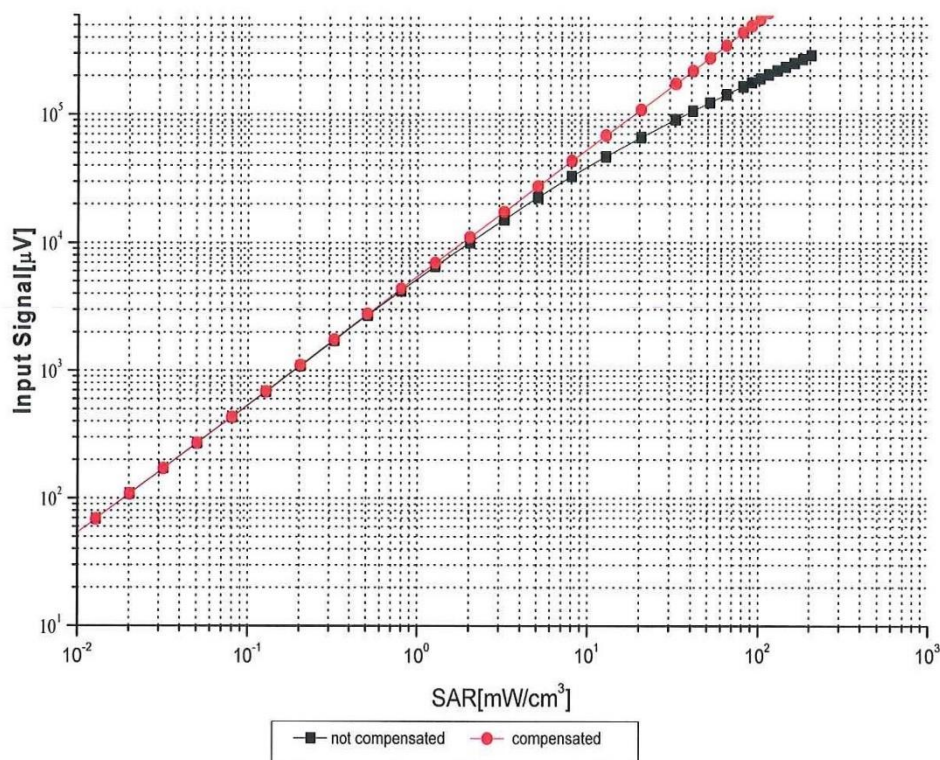
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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Dynamic Range f(SAR_{head}) (TEM cell, f = 900 MHz)



Uncertainty of Linearity Assessment: $\pm 0.9\%$ ($k=2$)

Certificate No: 24J02Z80102

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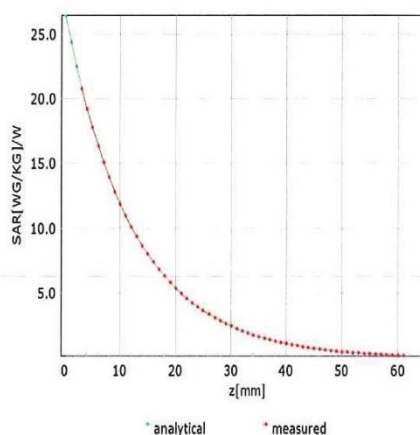
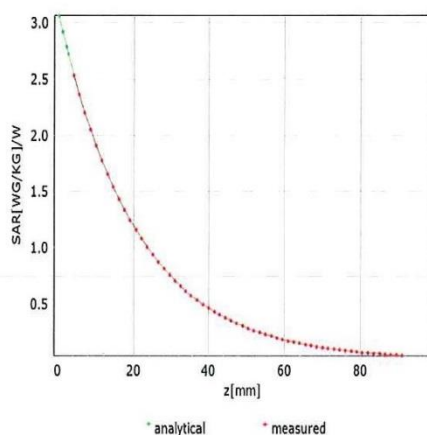


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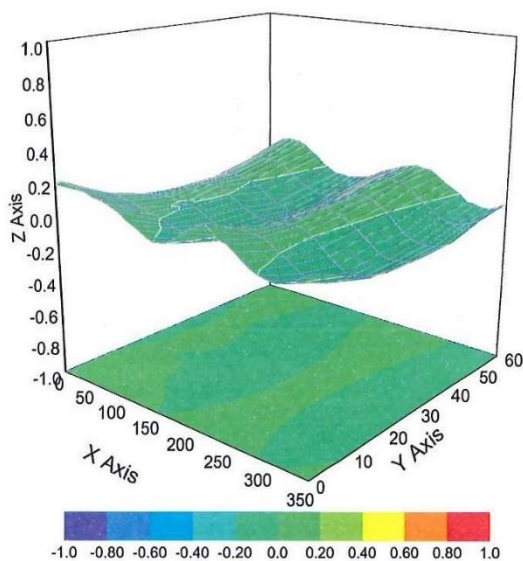
Conversion Factor Assessment

f=750 MHz,WGLS R9(H_convF)

f=1750 MHz,WGLS R22(H_convF)



Deviation from Isotropy in Liquid



Uncertainty of Spherical Isotropy Assessment: $\pm 3.2\%$ ($k=2$)





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Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	127.3
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disable
Probe Overall Length	337mm
Probe Body Diameter	10mm
Tip Length	9mm
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





APPENDIX D: PHOTOGRAPHS

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| 1. SAR measurement System |
| 2. Photographs of Tissue Simulate Liquid |
| 3. Photographs of EUT test position |
| 4. EUT Constructional Details |



1. SAR measurement System





2. Photographs of Tissue Simulate Liquid

Photo 1: Tissue Simulant Liquid for Head 2450	N/A
	



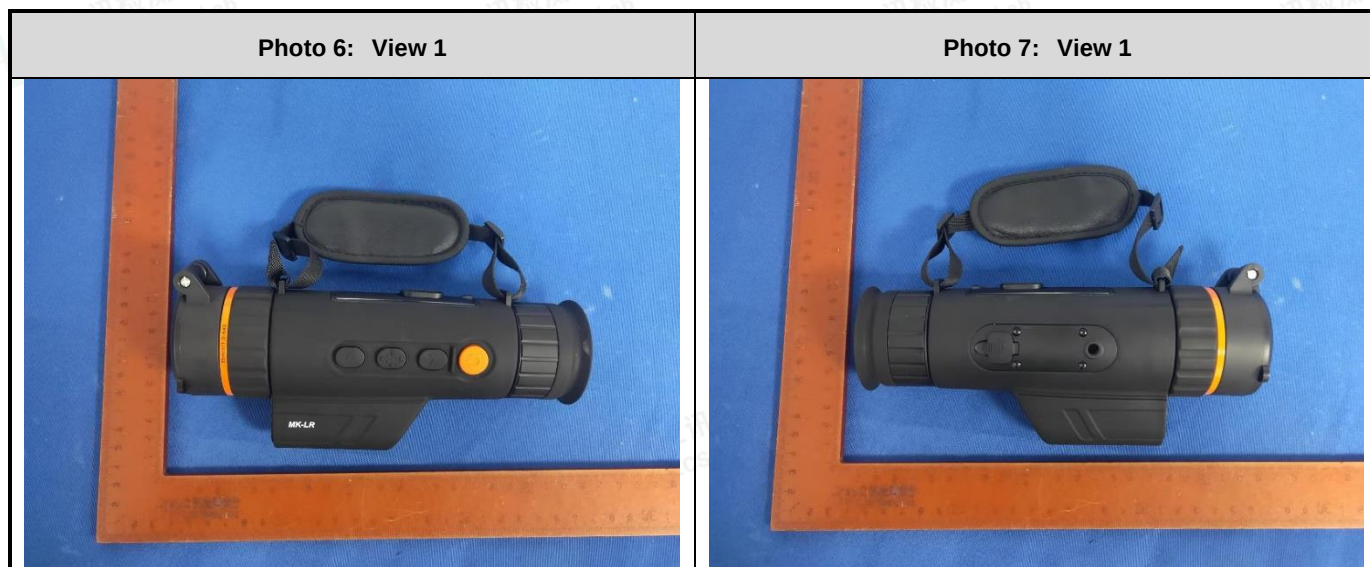


3. Photographs of EUT test position

Photo 2: Front side(0mm)	Photo 3: Rear side(0mm)
	
Photo 4: Left side(0mm)	Photo 5: Right side(0mm)
	
Top side(0mm)	Bottom side(0mm)
	



4. EUT Constructional Details



.....The End of Test Report.....

