



DASY/EASY – Parameters of Probe: EX3DV4 – SN: 3753

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	9.42	9.42	9.42	0.30	0.90	± 12.1%
835	41.5	0.90	9.13	9.13	9.13	0.12	1.48	± 12.1%
900	41.5	0.97	9.20	9.20	9.20	0.15	1.42	± 12.1%
1750	40.1	1.37	8.16	8.16	8.16	0.21	1.12	± 12.1%
1900	40.0	1.40	7.79	7.79	7.79	0.21	1.15	± 12.1%
2000	40.0	1.40	7.80	7.80	7.80	0.19	1.18	± 12.1%
2450	39.2	1.80	7.28	7.28	7.28	0.51	0.77	± 12.1%
2600	39.0	1.96	7.20	7.20	7.20	0.61	0.68	± 12.1%
3500	37.9	2.91	7.02	7.02	7.02	0.56	0.85	± 13.3%
5250	35.9	4.71	5.25	5.25	5.25	0.45	1.20	± 13.3%
5600	35.5	5.07	4.75	4.75	4.75	0.45	1.30	± 13.3%
5750	35.4	5.22	4.76	4.76	4.76	0.45	1.30	± 13.3%

^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 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.

^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.

DASY/EASY – Parameters of Probe: EX3DV4 – SN: 3753

Calibration Parameter Determined in Body 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	55.5	0.96	9.43	9.43	9.43	0.30	0.90	± 12.1%
835	55.2	0.97	9.21	9.21	9.21	0.17	1.39	± 12.1%
900	55.0	1.05	9.23	9.23	9.23	0.21	1.16	± 12.1%
1750	53.4	1.49	7.87	7.87	7.87	0.20	1.19	± 12.1%
1900	53.3	1.52	7.58	7.58	7.58	0.17	1.32	± 12.1%
2000	53.3	1.52	7.60	7.60	7.60	0.17	1.41	± 12.1%
2450	52.7	1.95	7.27	7.27	7.27	0.28	1.46	± 12.1%
2600	52.5	2.16	7.14	7.14	7.14	0.31	1.26	± 12.1%
3500	51.3	3.31	6.46	6.46	6.46	0.65	0.88	± 13.3%
5250	48.9	5.36	4.87	4.87	4.87	0.55	1.20	± 13.3%
5600	48.5	5.77	4.27	4.27	4.27	0.55	1.30	± 13.3%
5750	48.3	5.94	4.52	4.52	4.52	0.55	1.60	± 13.3%

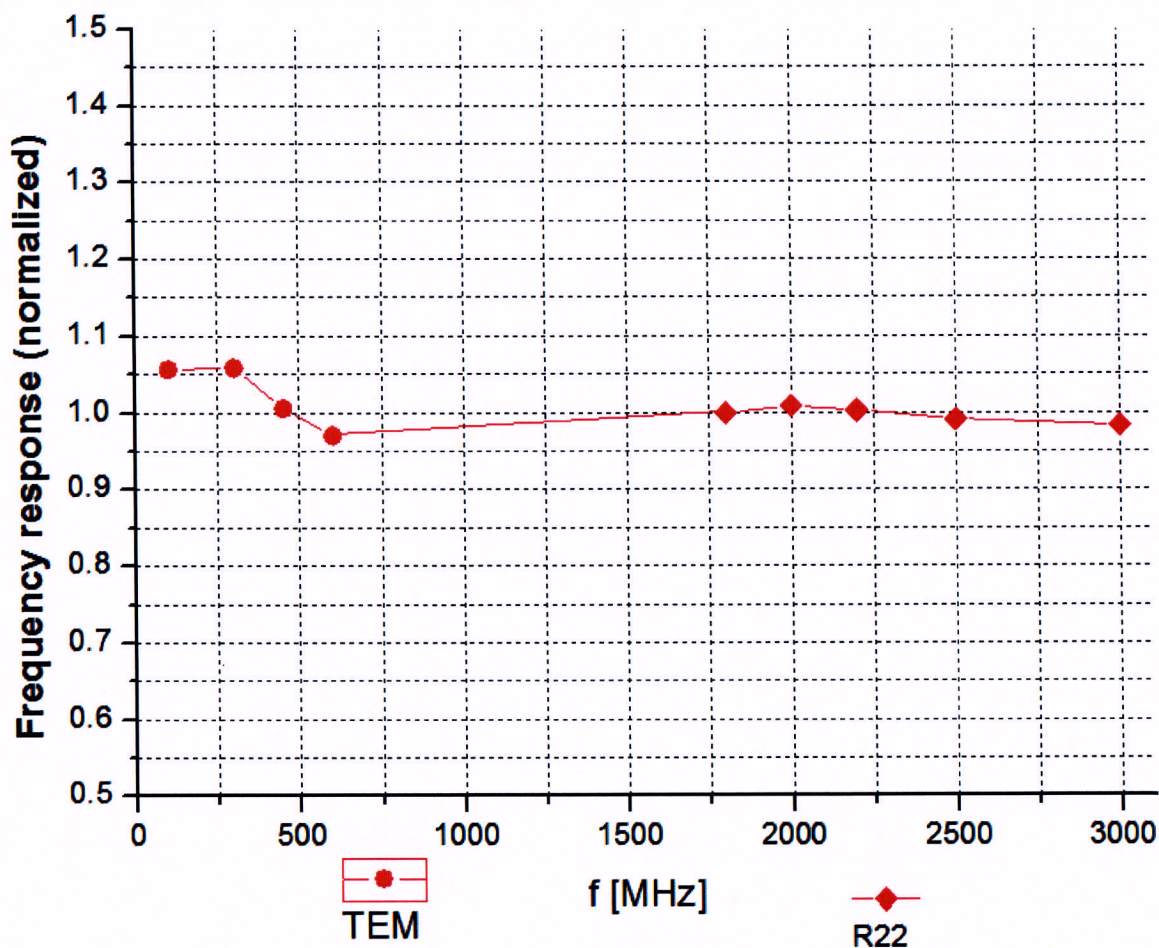
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Frequency Response of E-Field (TEM-Cell: ifi110 EXX, Waveguide: R22)



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

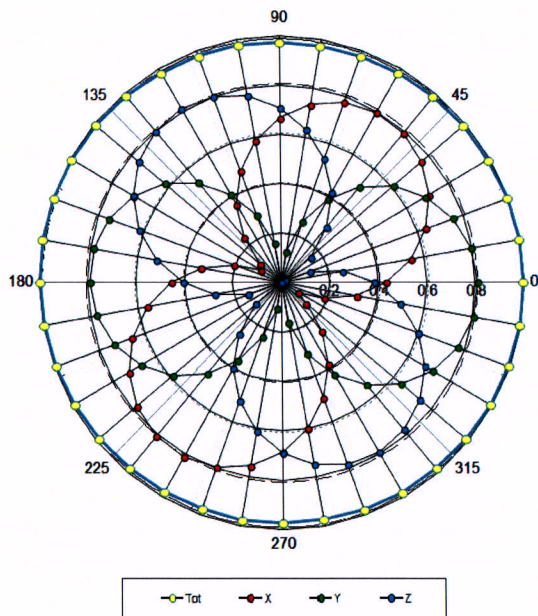


In Collaboration with
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CALIBRATION LABORATORY

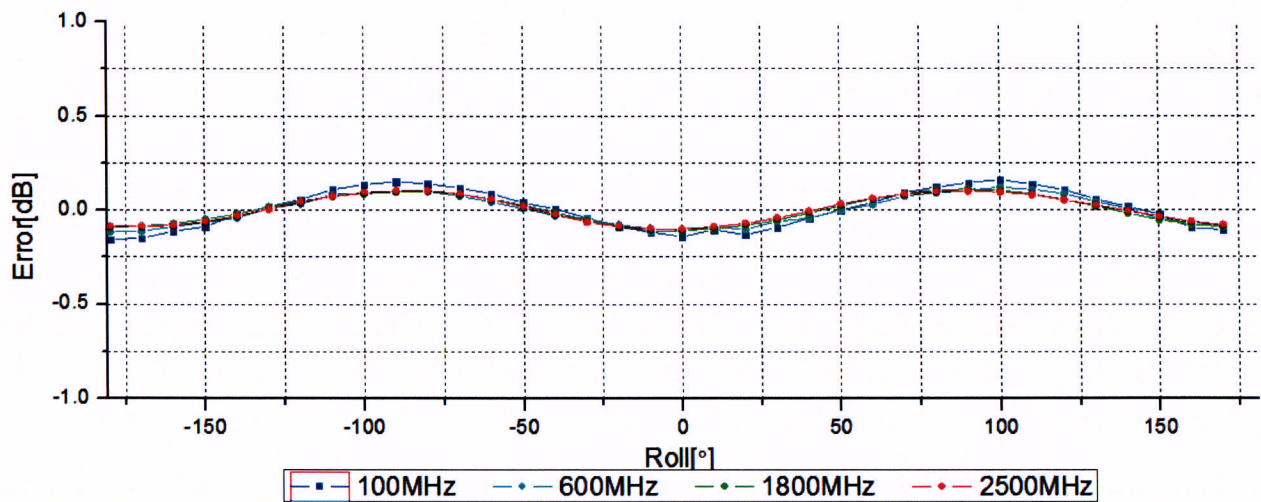
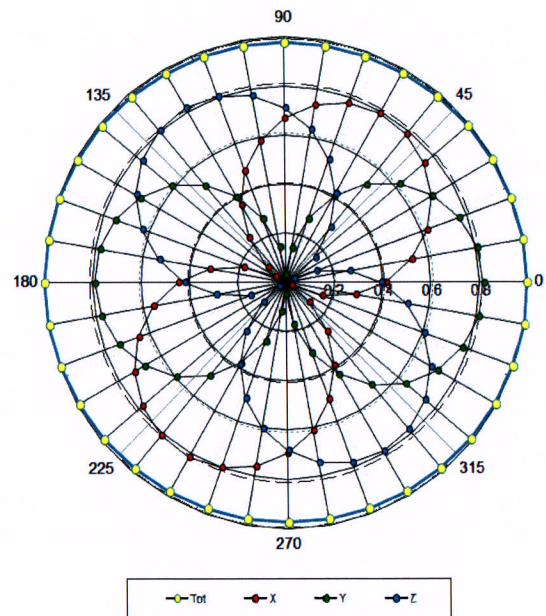
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Receiving Pattern (Φ), $\theta=0^\circ$

f=600 MHz, TEM

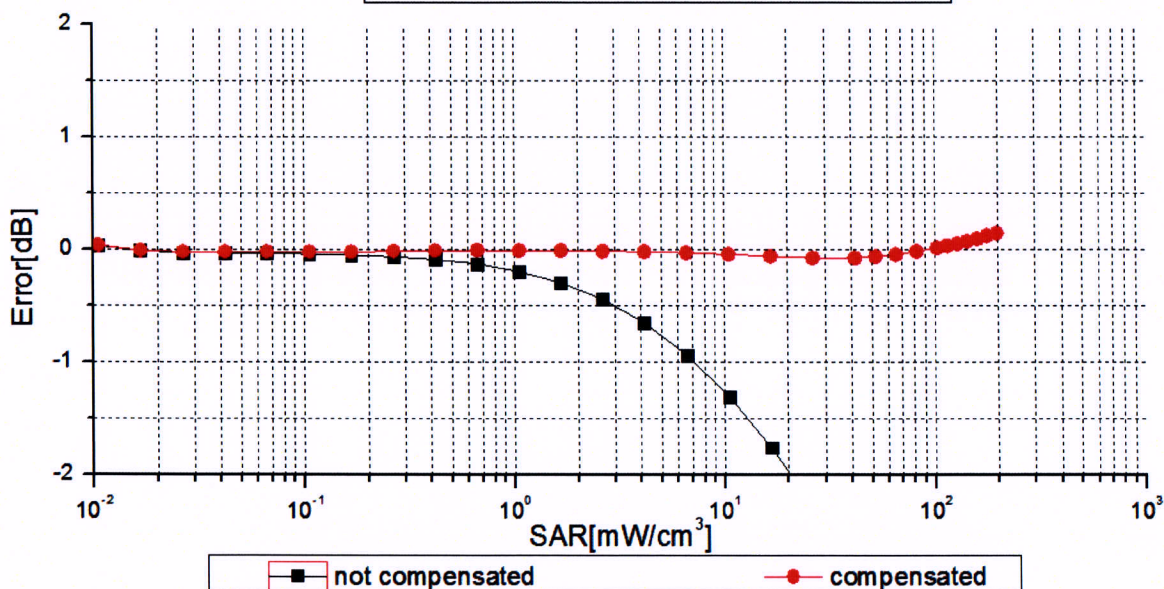
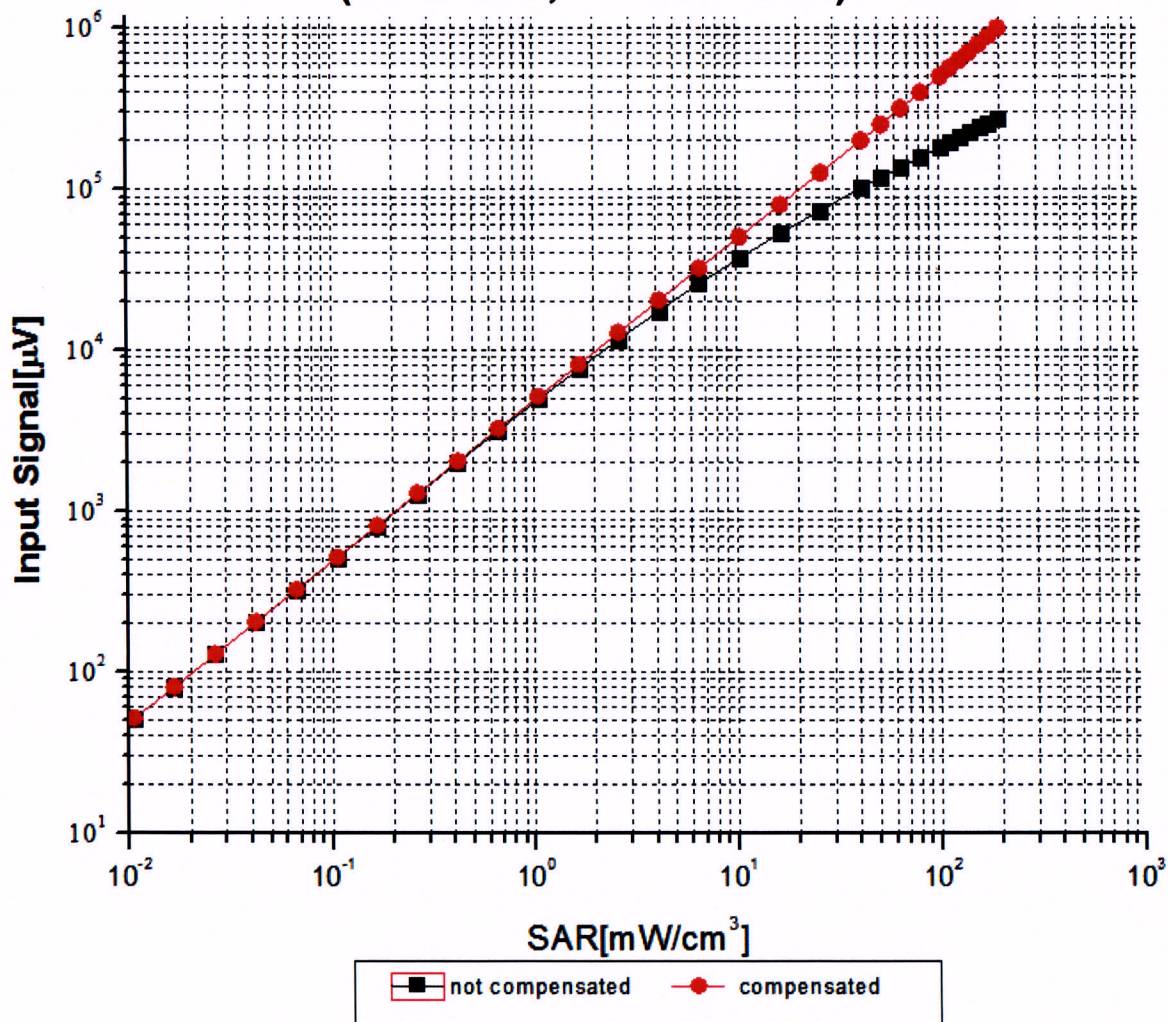


f=1800 MHz, R22



Uncertainty of Axial Isotropy Assessment: $\pm 1.2\%$ ($k=2$)

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



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