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DASY/EASY – Parameters of Probe: EX3DV4 – SN: 7716

Sensor Model Parameters

	C1 fF	C2 fF	α V ⁻¹	T1 ms.V ⁻²	T2 ms.V ⁻¹	T3 ms	T4 V ⁻²	T5 V ⁻¹	T6
X	9.11	67.19	33.37	3.91	0.00	4.90	0.45	0.00	1.01
Y	9.15	67.25	33.42	3.87	0.00	4.90	0.39	0.00	1.01
Z	11.81	88.08	34.34	1.62	0.00	4.90	0.00	0.00	1.03

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	66.2
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

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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	10.60	10.60	10.60	0.29	0.99	± 12.7%
835	41.5	0.90	10.28	10.28	10.28	0.14	1.47	± 12.7%
1750	40.1	1.37	8.76	8.76	8.76	0.26	0.98	± 12.7%
1900	40.0	1.40	8.40	8.40	8.40	0.27	1.02	± 12.7%
2100	39.8	1.49	8.37	8.37	8.37	0.24	1.05	± 12.7%
2300	39.5	1.67	8.20	8.20	8.20	0.65	0.66	± 12.7%
2450	39.2	1.80	7.98	7.98	7.98	0.63	0.66	± 12.7%
2600	39.0	1.96	7.81	7.81	7.81	0.60	0.67	± 12.7%
3300	38.2	2.71	7.35	7.35	7.35	0.55	0.80	± 13.9%
3500	37.9	2.91	7.15	7.15	7.15	0.42	1.03	± 13.9%
3700	37.7	3.12	6.95	6.95	6.95	0.42	1.04	± 13.9%
3900	37.5	3.32	6.75	6.75	6.75	0.35	1.50	± 13.9%
4100	37.2	3.53	6.80	6.80	6.80	0.40	1.15	± 13.9%
4200	37.1	3.63	6.70	6.70	6.70	0.30	1.52	± 13.9%
4400	36.9	3.84	6.60	6.60	6.60	0.30	1.52	± 13.9%
4600	36.7	4.04	6.53	6.53	6.53	0.45	1.20	± 13.9%
4800	36.4	4.25	6.48	6.48	6.48	0.40	1.38	± 13.9%
4950	36.3	4.40	6.18	6.18	6.18	0.40	1.38	± 13.9%
5250	35.9	4.71	5.61	5.61	5.61	0.40	1.60	± 13.9%
5600	35.5	5.07	5.02	5.02	5.02	0.50	1.33	± 13.9%
5750	35.4	5.22	5.15	5.15	5.15	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.

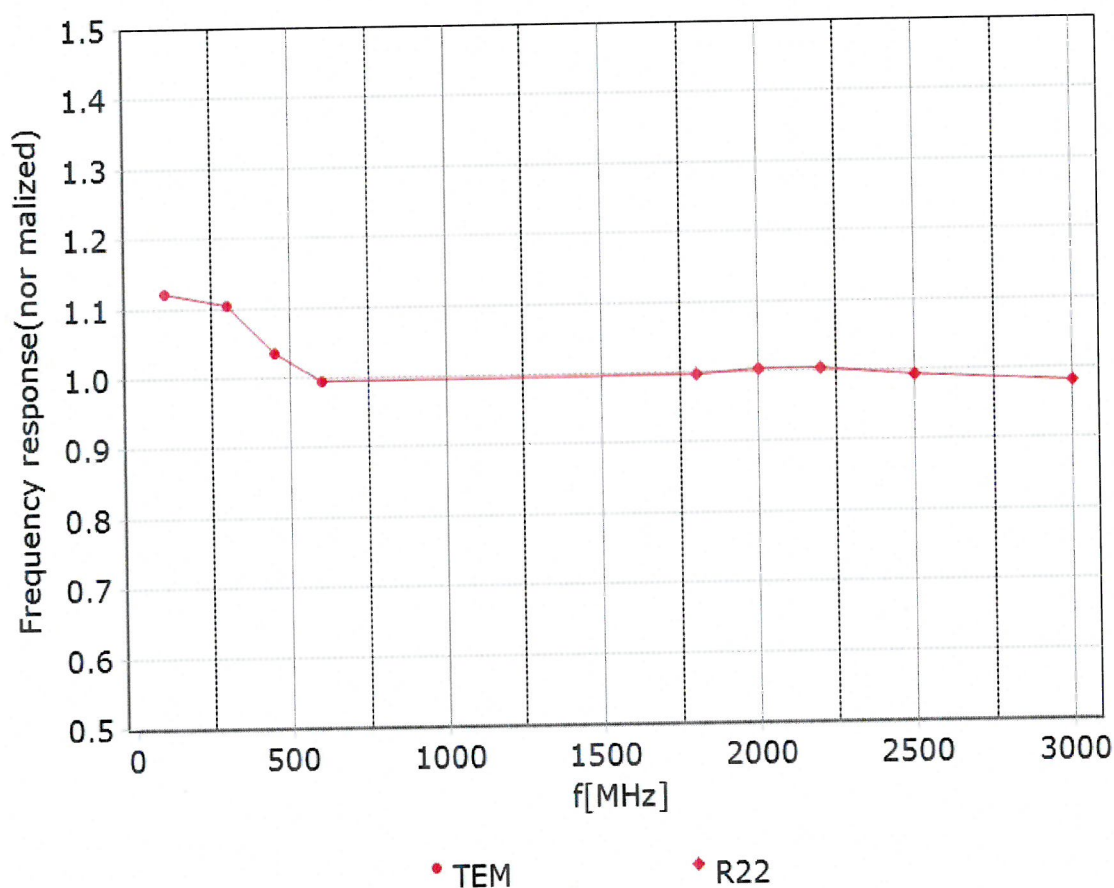
^F At frequency up to 6 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ±10% if liquid compensation formula is applied to measured SAR values. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

^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: $\pm 7.4\%$ ($k=2$)