

H3DV6- SN:6103

January 21, 2013

DASY/EASY - Parameters of Probe: H3DV6 - SN:6103

Basic Calibration Parameters

		Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (A/m / $\sqrt{\text{mV}}$)	a0	2.79E-003	2.85E-003	3.13E-003	$\pm 5.1 \%$
Norm (A/m / $\sqrt{\text{mV}}$)	a1	6.40E-005	1.13E-004	3.52E-005	$\pm 5.1 \%$
Norm (A/m / $\sqrt{\text{mV}}$)	a2	1.56E-005	4.75E-005	9.07E-005	$\pm 5.1 \%$
DCP (mV) ^B		91.8	97.8	93.6	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB $\sqrt{\mu\text{V}}$	C	D dB	VR mV	Unc ^E (k=2)
0	CW	X	0.0	0.0	1.0	0.00	122.1	$\pm 1.9 \%$
		Y	0.0	0.0	1.0		120.6	
		Z	0.0	0.0	1.0		122.4	

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%.

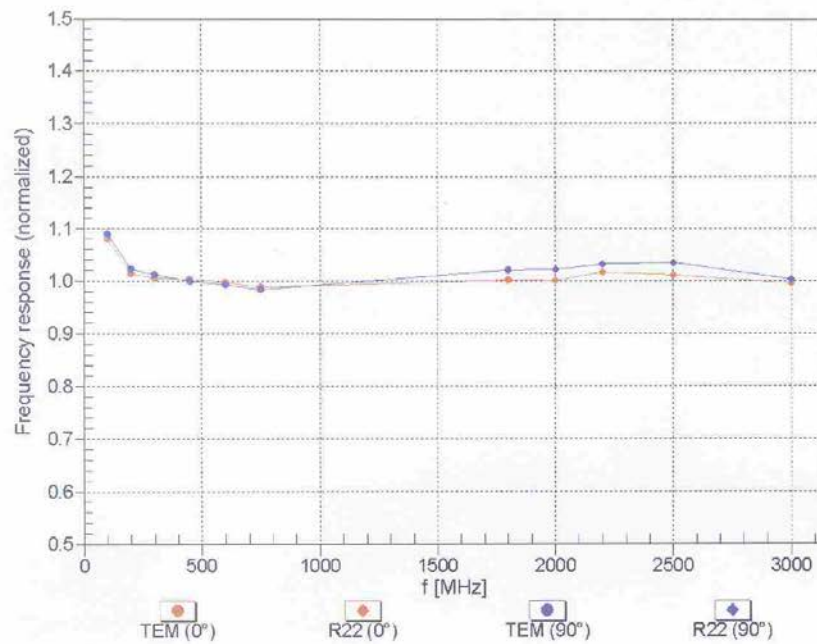
^B Numerical linearization parameter: uncertainty not required.

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



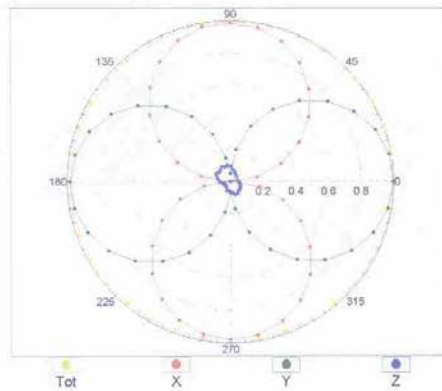
Uncertainty of Frequency Response of H-field: $\pm 6.3\%$ (k=2)

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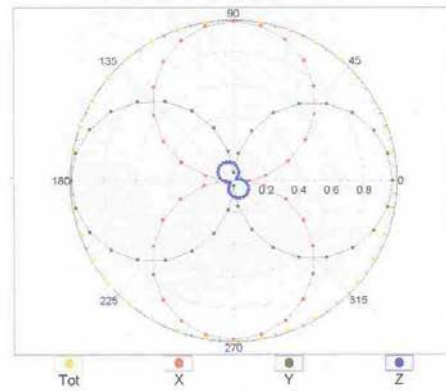
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Receiving Pattern (ϕ), $\vartheta = 0^\circ$

$f=600\text{ MHz, TEM, }0^\circ$

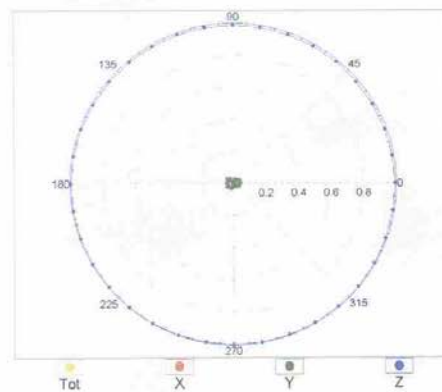


$f=2500\text{ MHz, R22, }0^\circ$

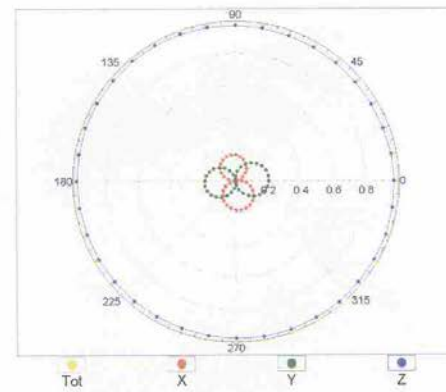


Receiving Pattern (ϕ), $\vartheta = 90^\circ$

$f=600\text{ MHz, TEM, }90^\circ$



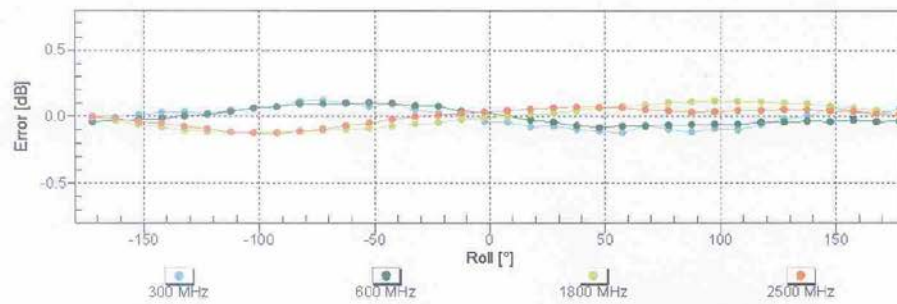
$f=2500\text{ MHz, R22, }90^\circ$



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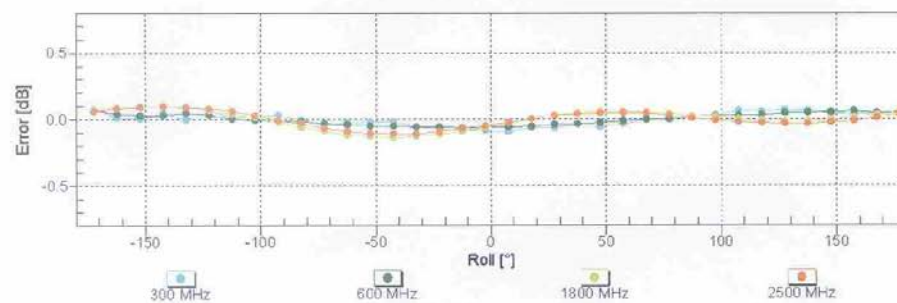
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Receiving Pattern (ϕ), $\vartheta = 0^\circ$



Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)

Receiving Pattern (ϕ), $\vartheta = 90^\circ$

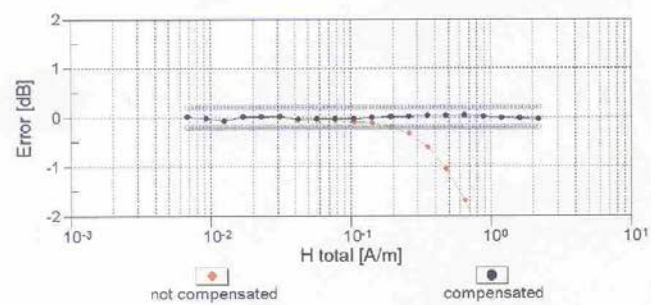
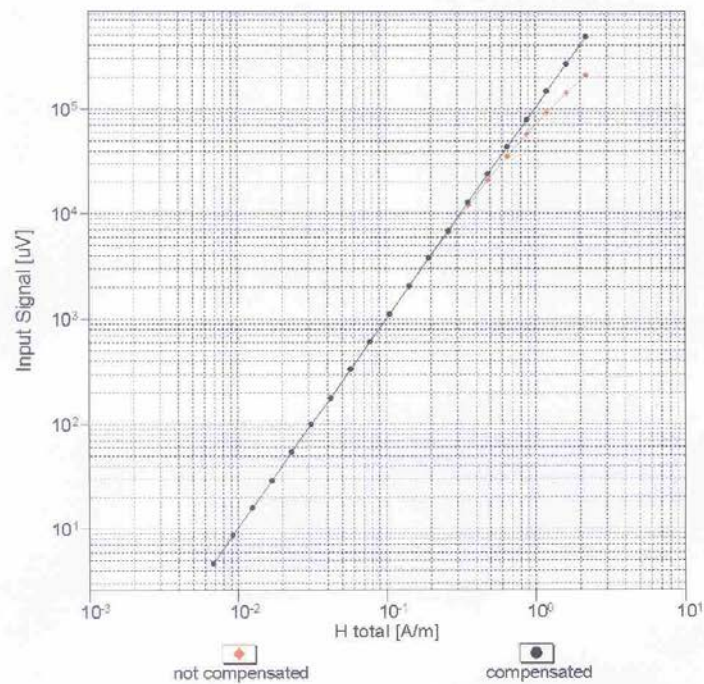


Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)

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Dynamic Range f(H-field) (TEM cell, $f = 900$ MHz)



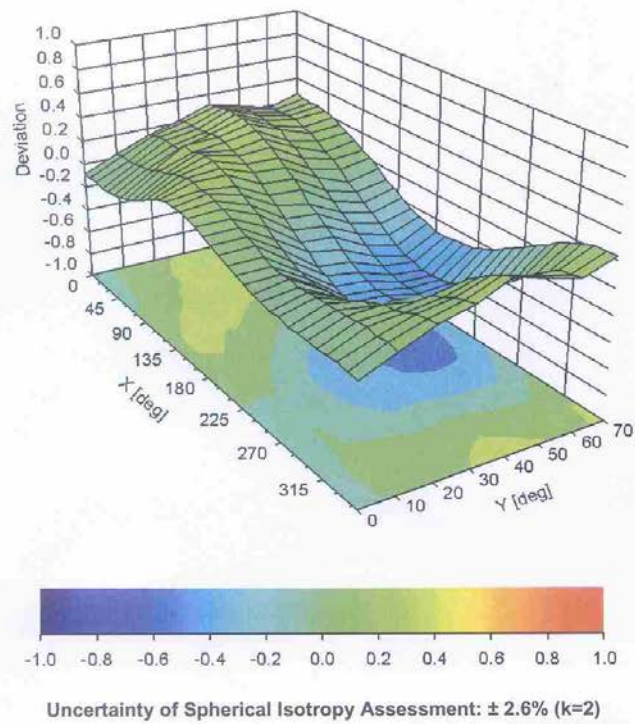
Uncertainty of Linearity Assessment: $\pm 0.6\%$ ($k=2$)

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Deviation from Isotropy in Air

Error (ϕ , θ), $f = 900$ MHz



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Other Probe Parameters

Sensor Arrangement	Rectangular
Connector Angle (°)	-92.4
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	20 mm
Tip Diameter	6 mm
Probe Tip to Sensor X Calibration Point	3 mm
Probe Tip to Sensor Y Calibration Point	3 mm
Probe Tip to Sensor Z Calibration Point	3 mm