

DASY - Parameters of Probe: ET3DV6 SN:1687

Sensitivity in Free Space

NormX	1.79 $\mu\text{V}/(\text{V}/\text{m})^2$
NormY	1.79 $\mu\text{V}/(\text{V}/\text{m})^2$
NormZ	1.59 $\mu\text{V}/(\text{V}/\text{m})^2$

Diode Compression

DCP X	95	mV
DCP Y	95	mV
DCP Z	95	mV

Sensitivity in Tissue Simulating Liquid

Head 900 MHz $\epsilon_r = 41.5 \pm 5\%$ $\sigma = 0.97 \pm 5\%$ mho/m

Valid for f=800-1000 MHz with Head Tissue Simulating Liquid according to EN 50361, P1528-200X

ConvF X	6.7 $\pm 9.5\%$ (k=2)	Boundary effect:
ConvF Y	6.7 $\pm 9.5\%$ (k=2)	Alpha 0.39
ConvF Z	6.7 $\pm 9.5\%$ (k=2)	Depth 2.46

Head 1800 MHz $\epsilon_r = 40.0 \pm 5\%$ $\sigma = 1.40 \pm 5\%$ mho/m

Valid for f=1710-1910 MHz with Head Tissue Simulating Liquid according to EN 50361, P1528-200X

ConvF X	5.3 $\pm 9.5\%$ (k=2)	Boundary effect:
ConvF Y	5.3 $\pm 9.5\%$ (k=2)	Alpha 0.46
ConvF Z	5.3 $\pm 9.5\%$ (k=2)	Depth 2.69

Boundary Effect

Head 900 MHz Typical SAR gradient: 5 % per mm

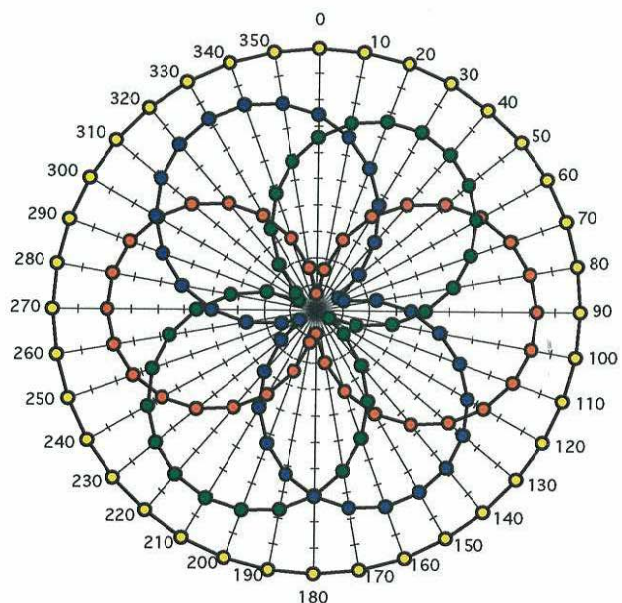
Probe Tip to Boundary		1 mm	2 mm
SAR _{be} [%]	Without Correction Algorithm	9.9	5.6
SAR _{be} [%]	With Correction Algorithm	0.3	0.5

Head 1800 MHz Typical SAR gradient: 10 % per mm

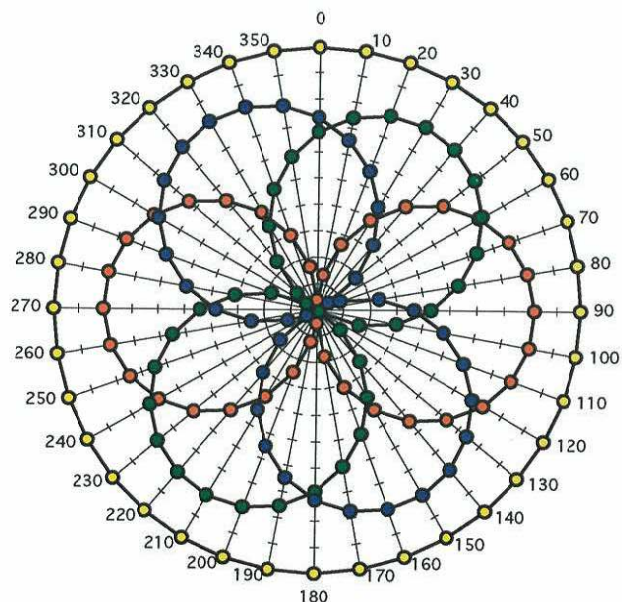
Probe Tip to Boundary		1 mm	2 mm
SAR _{be} [%]	Without Correction Algorithm	13.0	8.9
SAR _{be} [%]	With Correction Algorithm	0.2	0.1

Sensor Offset

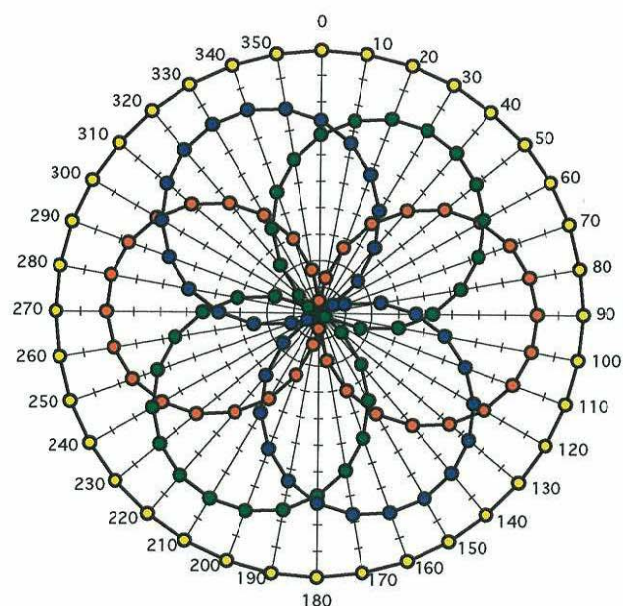
Probe Tip to Sensor Center	2.7	mm
Optical Surface Detection	1.5 $\pm$ 0.2	mm

Receiving Pattern (ϕ), $\theta = 0^\circ$ $f = 30 \text{ MHz}$, TEM cell ifi110

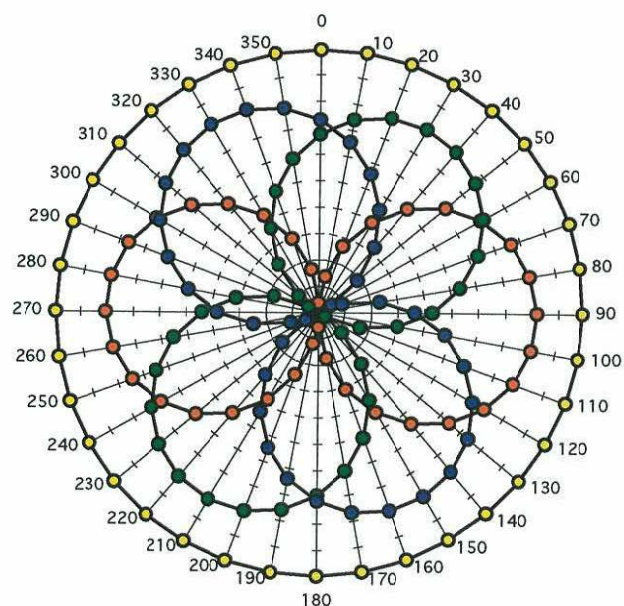
—●— X —●— Y —●— Z —●— Tot

 $f = 100 \text{ MHz}$, TEM cell ifi110

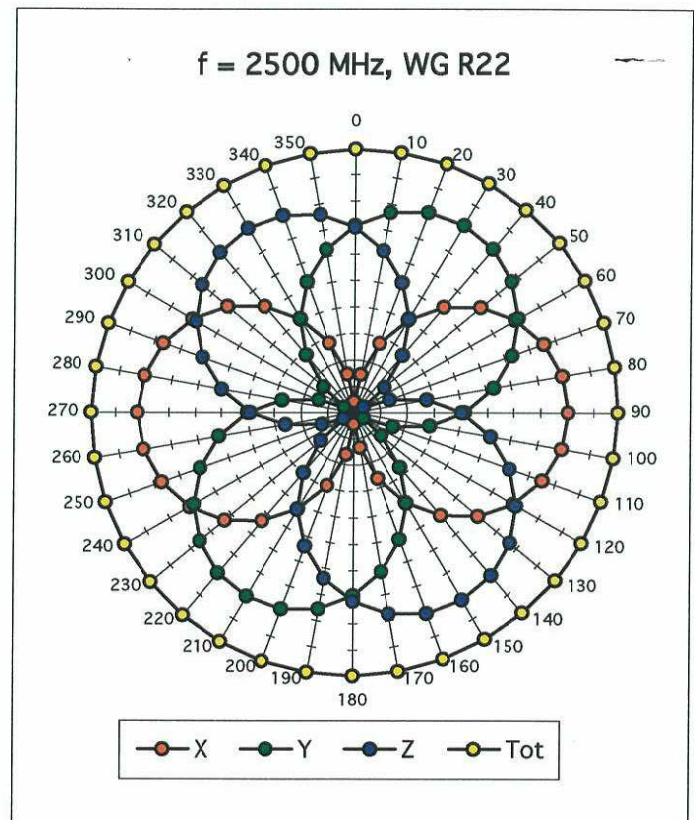
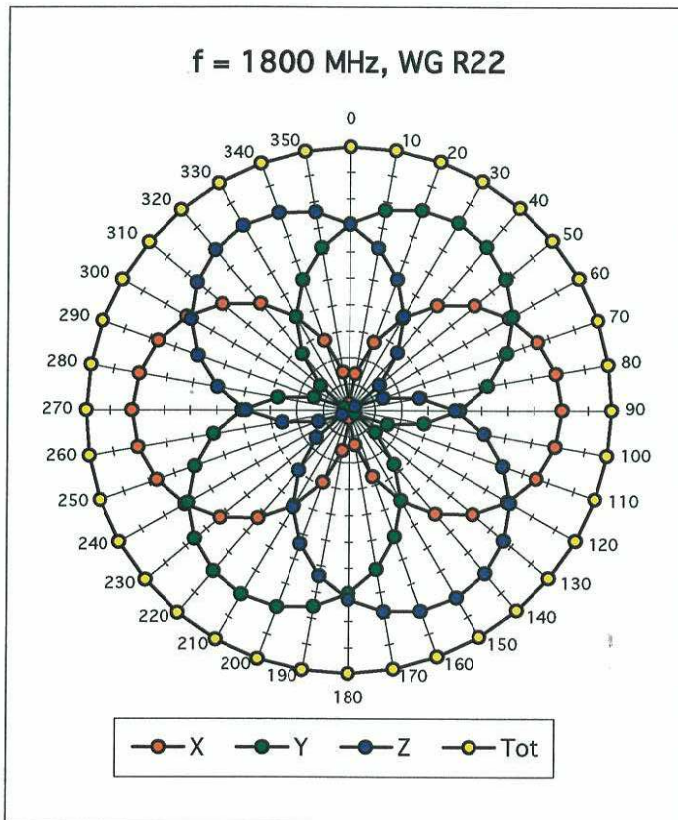
—●— X —●— Y —●— Z —●— Tot

 $f = 300 \text{ MHz}$, TEM cell ifi110

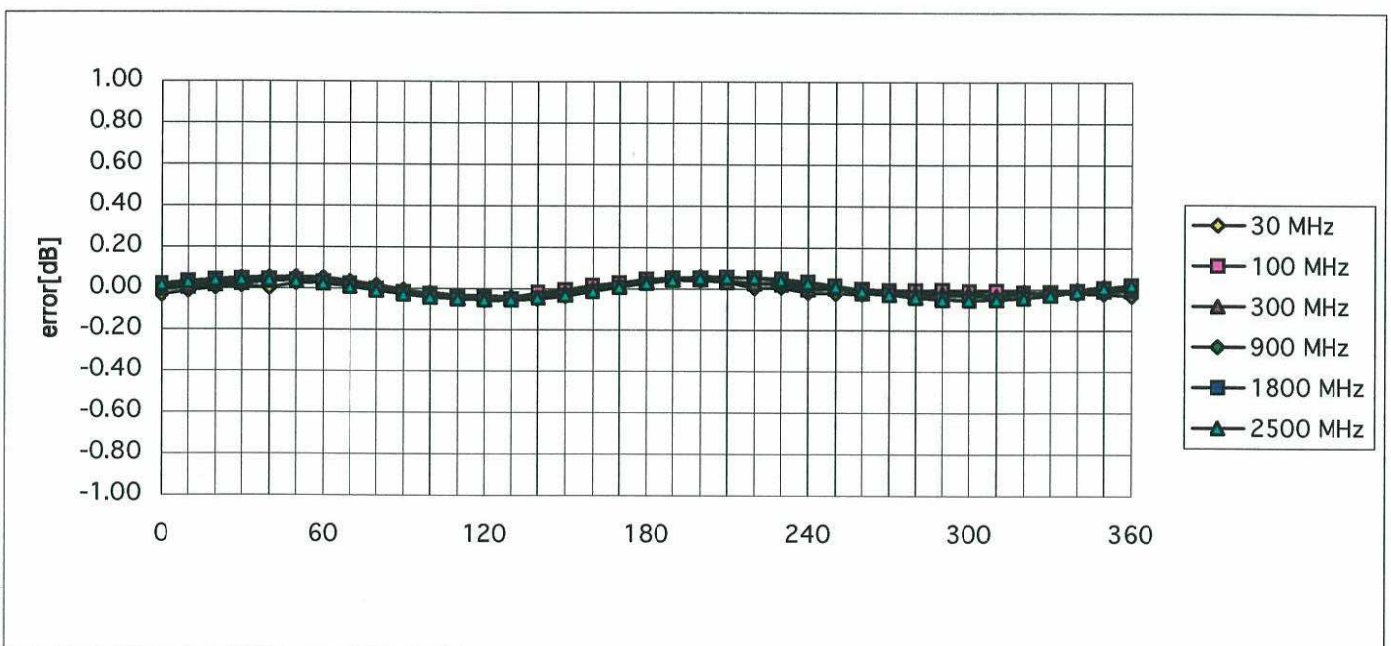
—●— X —●— Y —●— Z —●— Tot

 $f = 900 \text{ MHz}$, TEM cell ifi110

—●— X —●— Y —●— Z —●— Tot



Isotropy Error (ϕ), $\theta = 0^\circ$



Frequency Response of E-Field

(TEM-Cell:ifi110, Waveguide R22)

