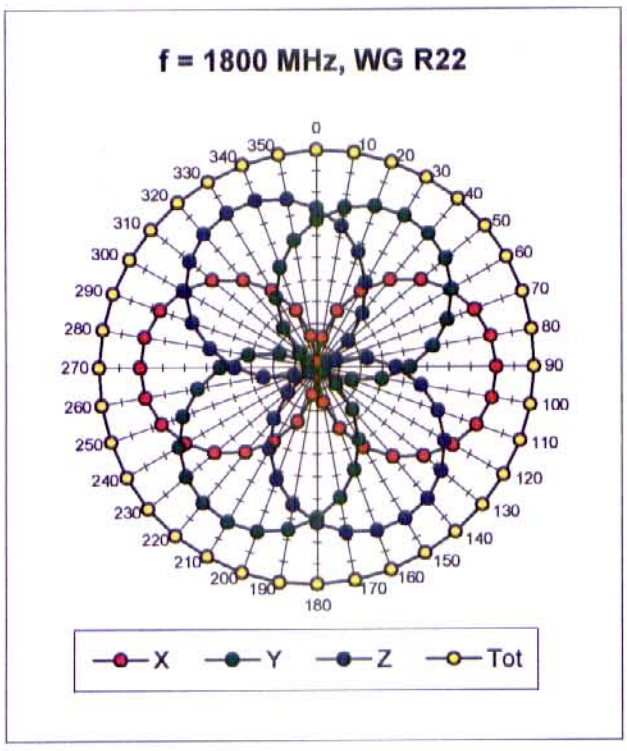
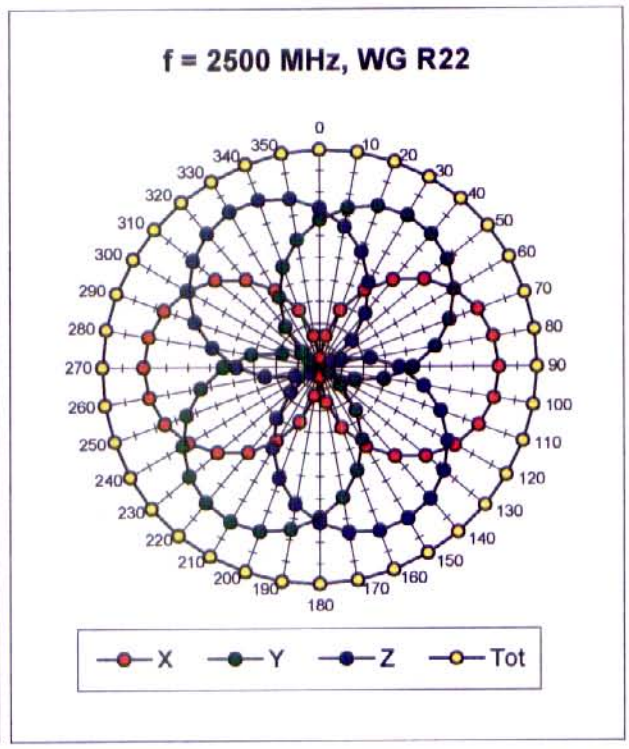
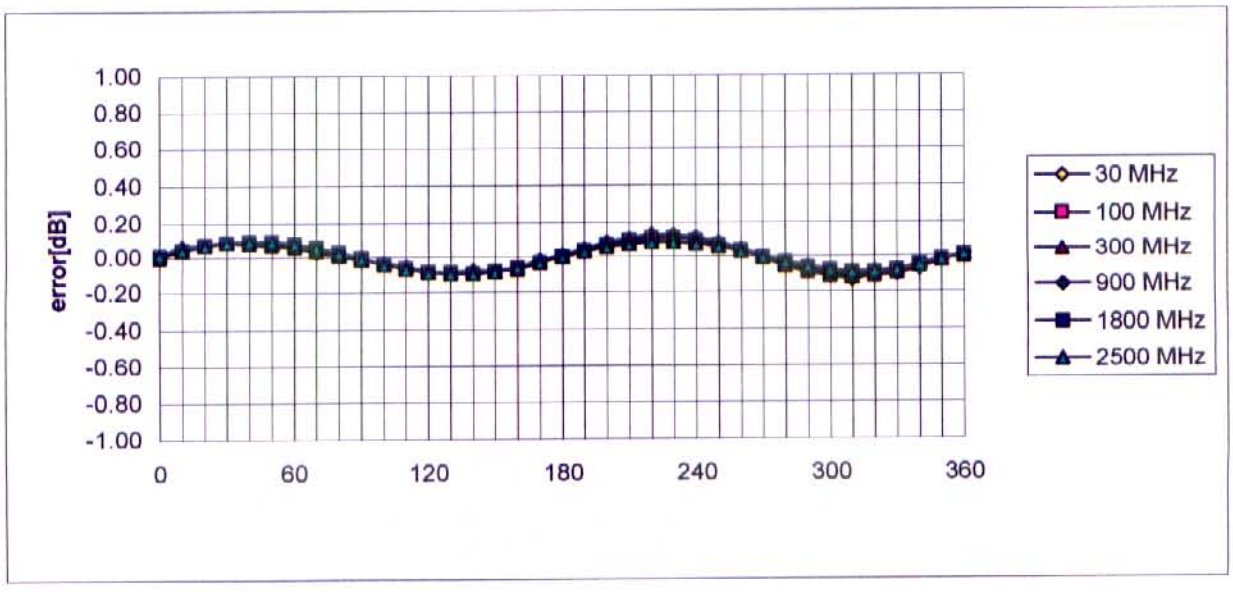


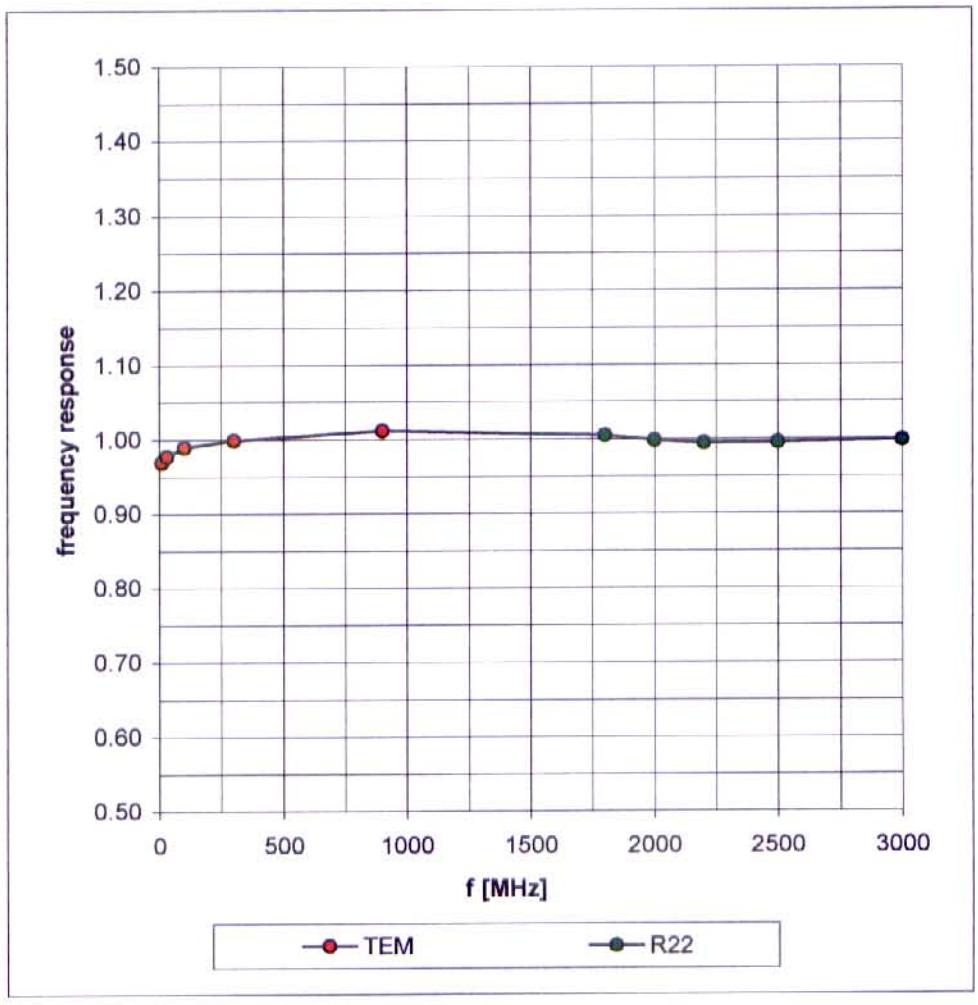


Isotropy Error (ϕ), θ = 0°



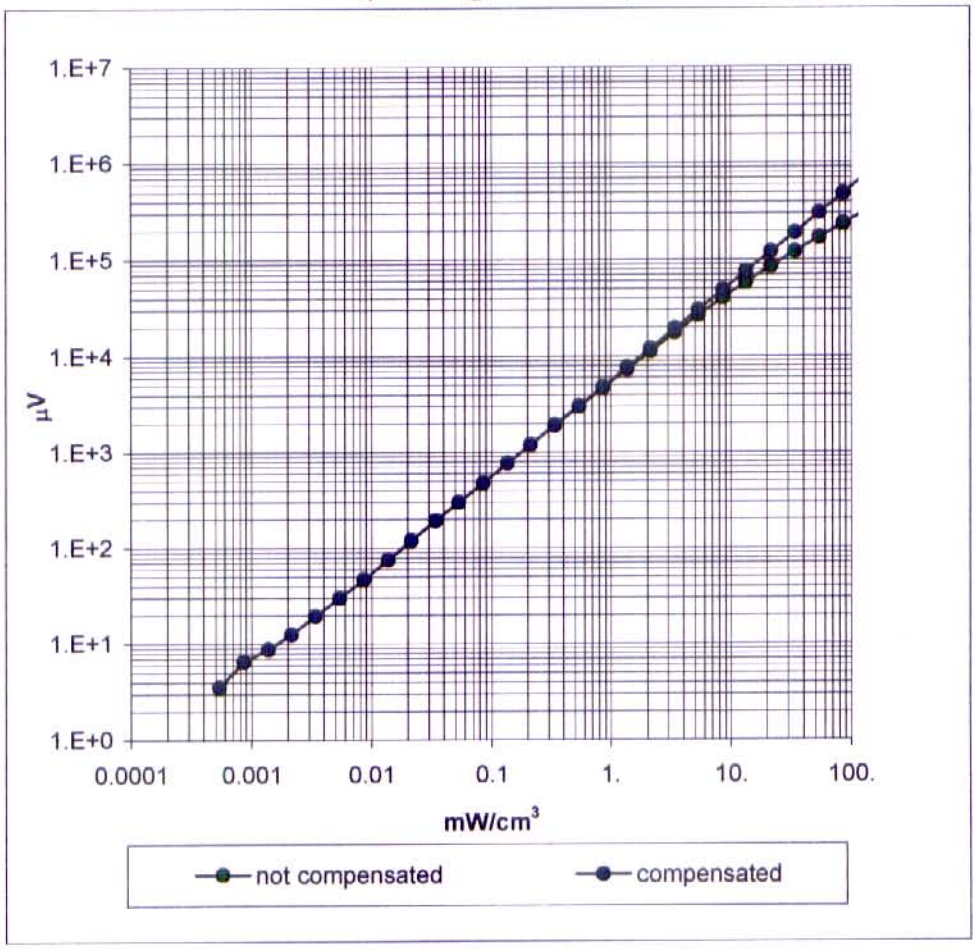
Frequency Response of E-Field

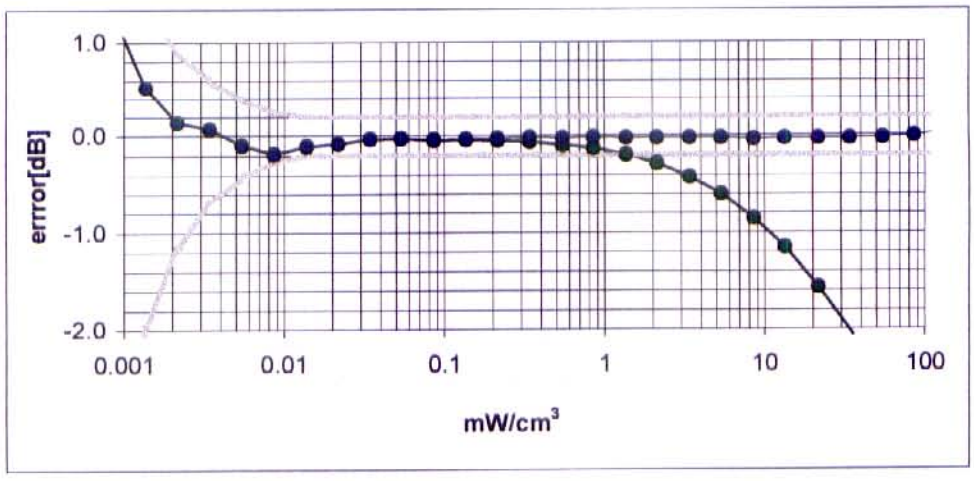
(TEM-Cell:ifi110, Waveguide R22)



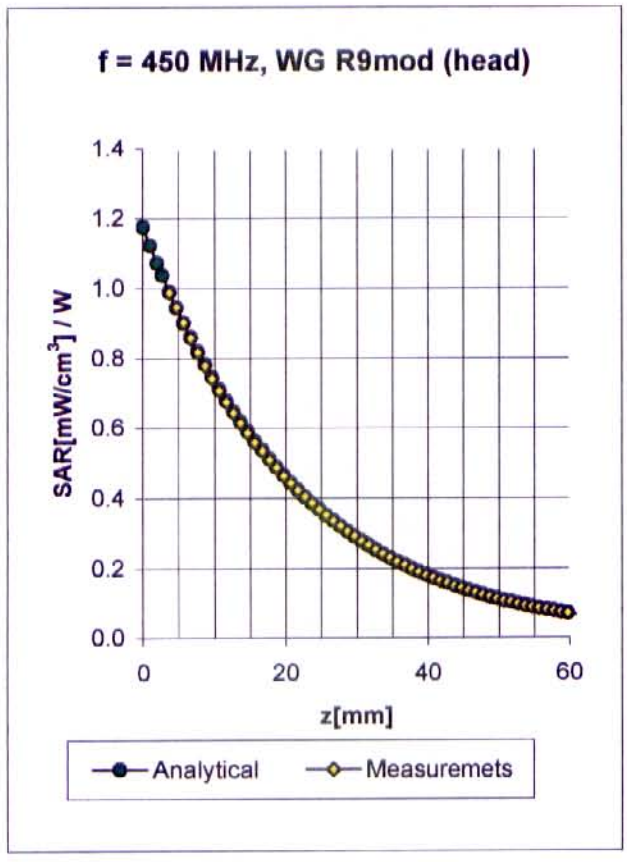
Dynamic Range f(SAR_{brain})

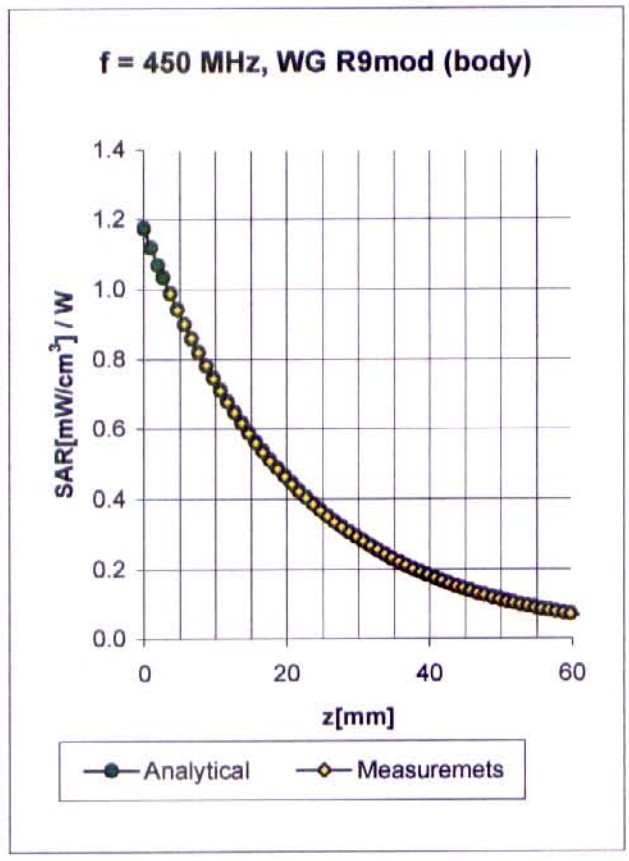
(Waveguide R22)





Conversion Factor Assessment





Head **450 MHz** ε_r **= 43.5 ± 5%** σ **= 0.87 ± 5% mho/m**

Valid for f=400-500 MHz with Head Tissue Simulating Liquid according to EN 50361, P1528-200X

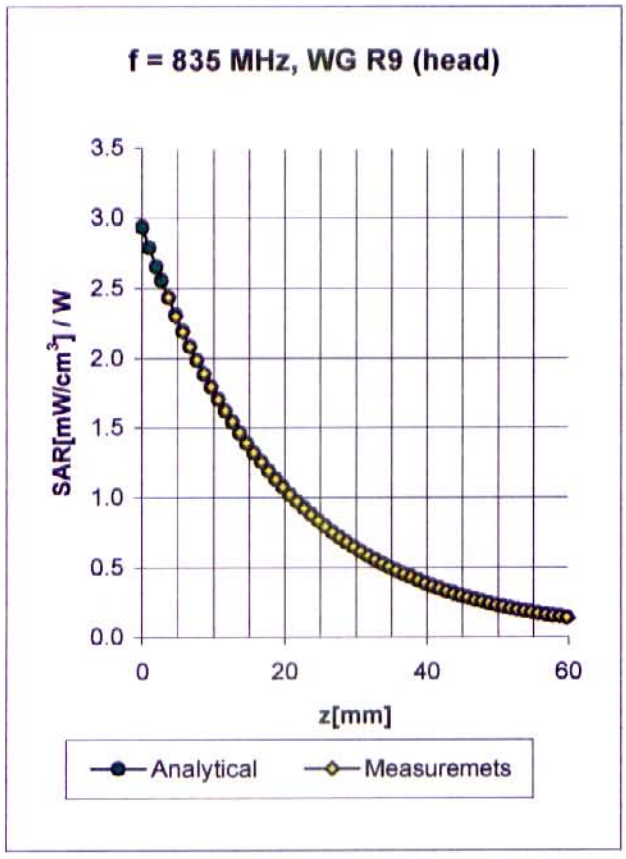
ConvF X	**7.0** ± 15.5% (k=2)	Boundary effect:	
ConvF Y	**7.0** ± 15.5% (k=2)	Alpha	**1.14**
ConvF Z	**7.0** ± 15.5% (k=2)	Depth	**1.31**

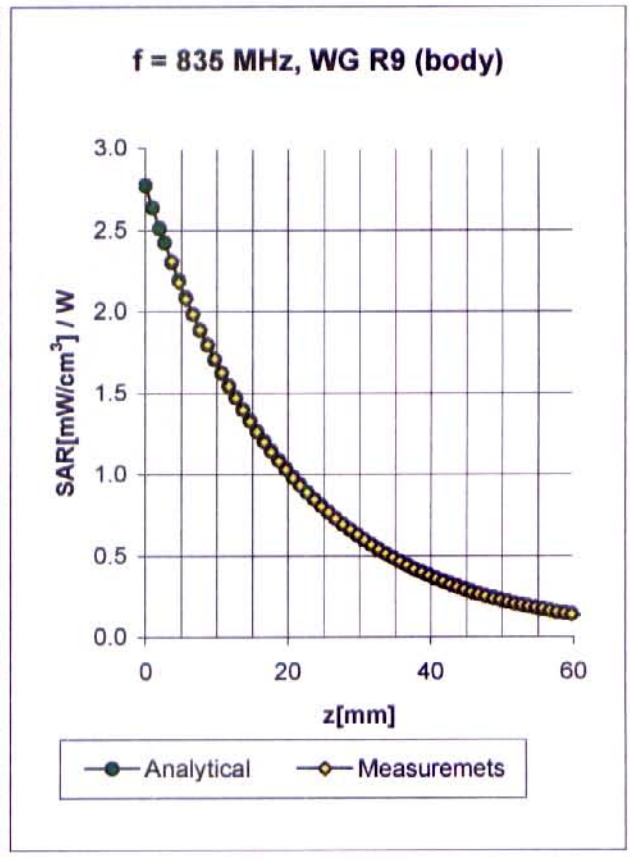
Body **450 MHz** ε_r **= 56.7 ± 5%** σ **= 0.94 ± 5% mho/m**

Valid for f=400-500 MHz with Body Tissue Simulating Liquid according to OET 65 Suppl. C

ConvF X	**6.6** ± 15.5% (k=2)	Boundary effect:	
ConvF Y	**6.6** ± 15.5% (k=2)	Alpha	**0.53**
ConvF Z	**6.6** ± 15.5% (k=2)	Depth	**2.02**

Conversion Factor Assessment





Head **835 MHz** ε_r **= 41.5 ± 5%** σ **= 0.90 ± 5% mho/m**

Valid for f=793-877 MHz with Head Tissue Simulating Liquid according to EN 50361, P1528-200X

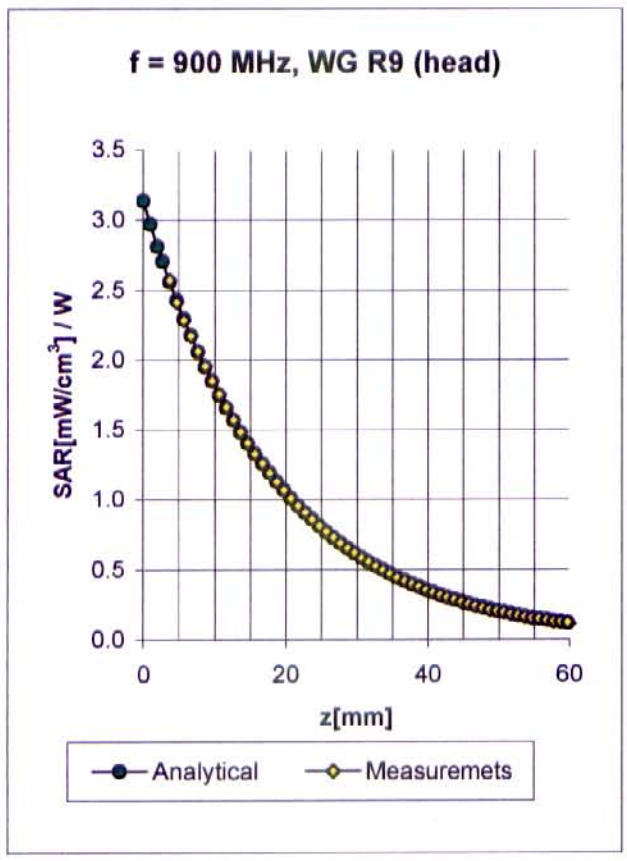
ConvF X	**6.8** ± 9.5% (k=2)	Boundary effect:	
ConvF Y	**6.8** ± 9.5% (k=2)	Alpha	**0.33**
ConvF Z	**6.8** ± 9.5% (k=2)	Depth	**2.62**

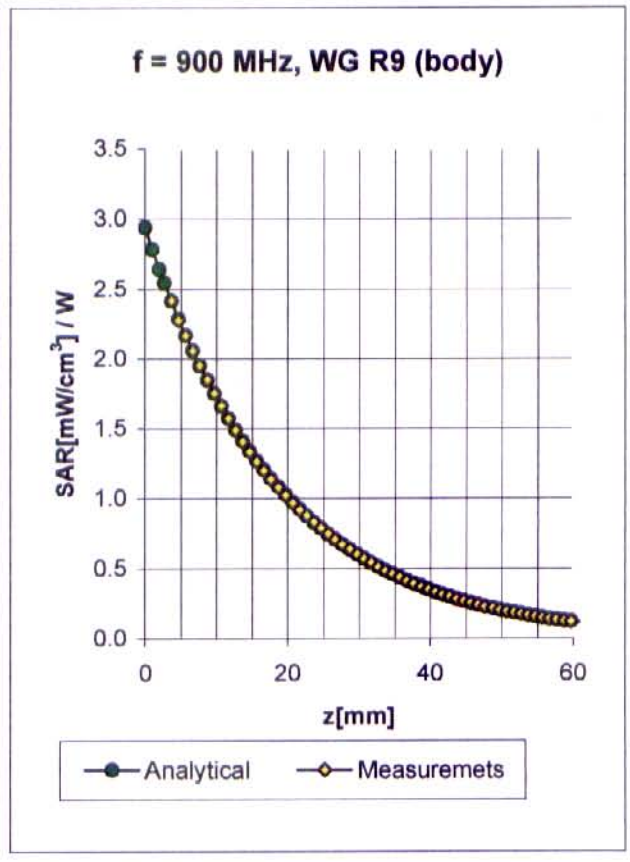
Body **835 MHz** ε_r **= 55.2 ± 5%** σ **= 0.97 ± 5% mho/m**

Valid for f=793-877 MHz with Body Tissue Simulating Liquid according to OET 65 Suppl. C

ConvF X	**6.6** ± 9.5% (k=2)	Boundary effect:	
ConvF Y	**6.6** ± 9.5% (k=2)	Alpha	**0.38**
ConvF Z	**6.6** ± 9.5% (k=2)	Depth	**2.46**

Conversion Factor Assessment





Head **900 MHz** ε_r = **41.4** σ = **0.97 ± 5% mho/m**

Valid for f=855-945 MHz with Head Tissue Simulating Liquid according to EN 50361, P1528-200X

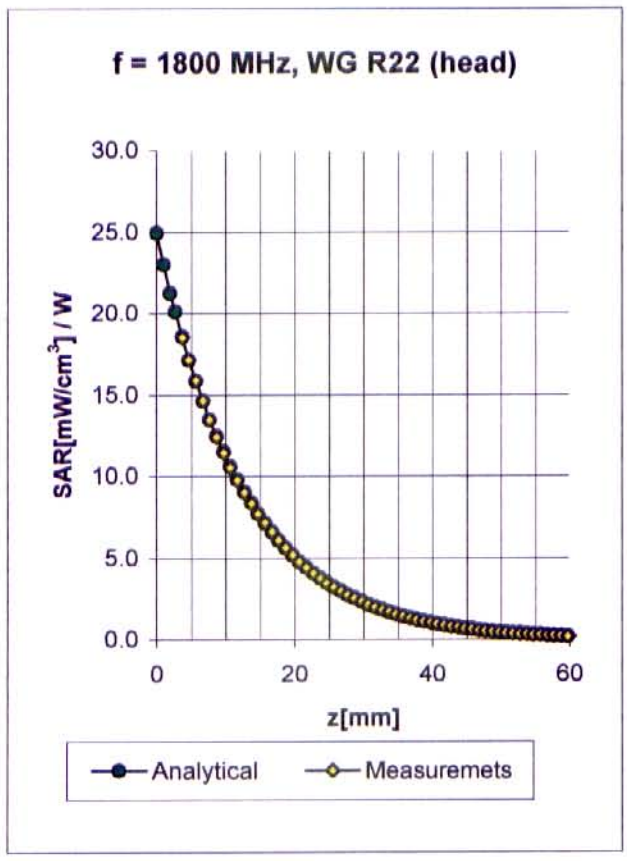
ConvF X	**6.6** ± 9.5% (k=2)	Boundary effect:	
ConvF Y	**6.6** ± 9.5% (k=2)	Alpha	**0.30**
ConvF Z	**6.6** ± 9.5% (k=2)	Depth	**2.82**

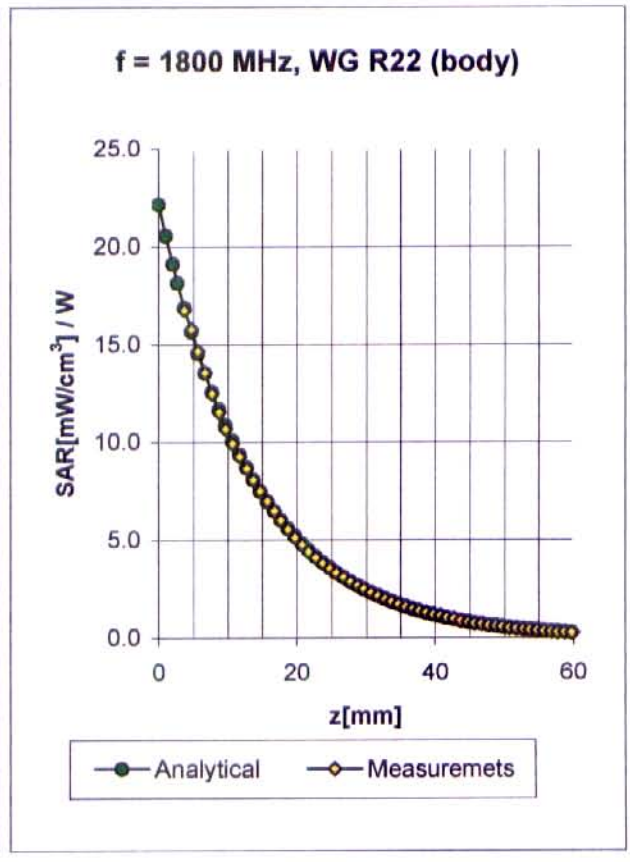
Body **900 MHz** ε_r = **55.0 ± 5%** σ = **1.05 ± 5% mho/m**

Valid for f=855-945 MHz with Body Tissue Simulating Liquid according to OET 65 Suppl. C

ConvF X	**6.3** ± 9.5% (k=2)	Boundary effect:	
ConvF Y	**6.3** ± 9.5% (k=2)	Alpha	**0.37**
ConvF Z	**6.3** ± 9.5% (k=2)	Depth	**2.44**

Conversion Factor Assessment





Head **1800 MHz** ε_r **= 40.0 ± 5%** σ **= 1.40 ± 5% mho/m**

Valid for f=1710-1890 MHz with Head Tissue Simulating Liquid according to EN 50361, P1528-200X

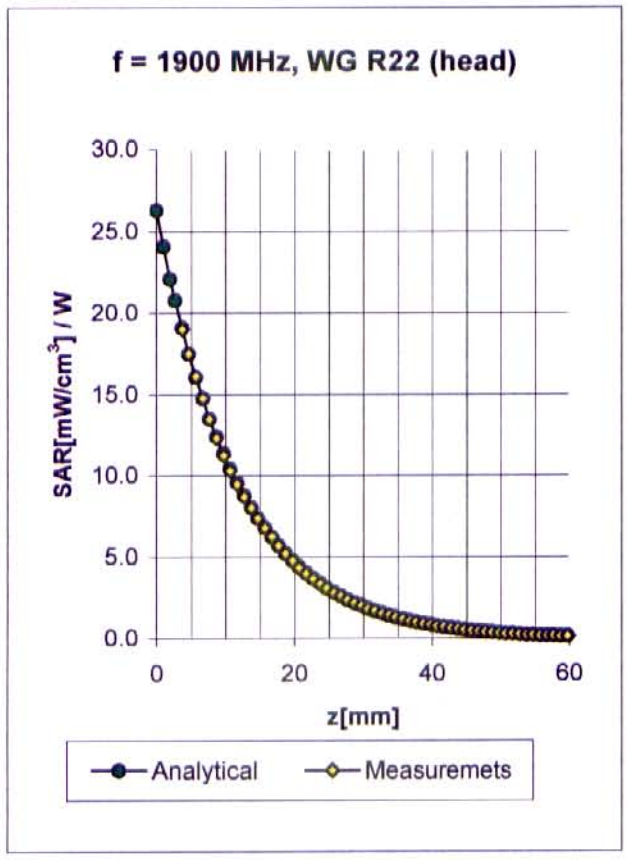
ConvF X	**5.3** ± 9.5% (k=2)	Boundary effect:	
ConvF Y	**5.3** ± 9.5% (k=2)	Alpha	**0.46**
ConvF Z	**5.3** ± 9.5% (k=2)	Depth	**2.62**

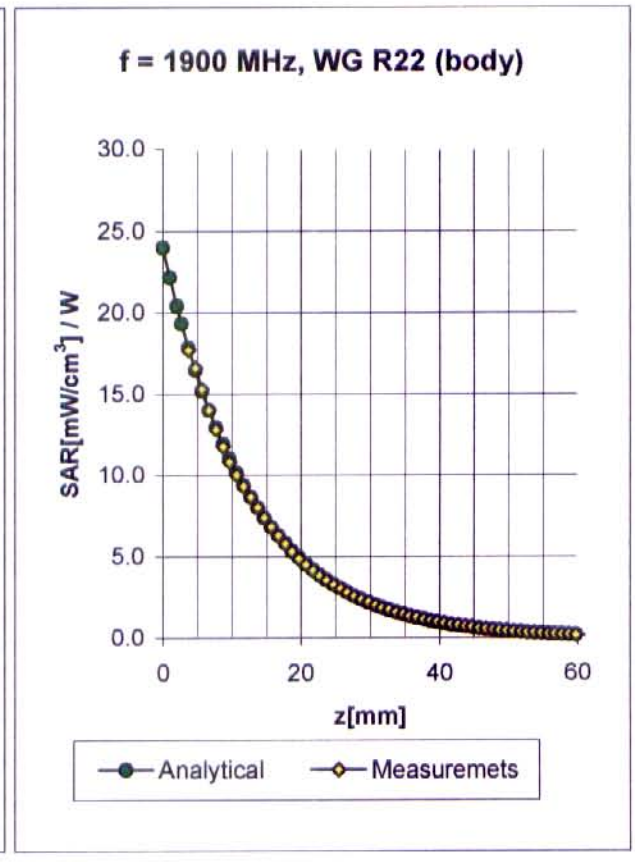
Body **1800 MHz** ε_r **= 53.3 ± 5%** σ **= 1.52 ± 5% mho/m**

Valid for f=1710-1890 MHz with Body Tissue Simulating Liquid according to OET 65 Suppl. C

ConvF X	**4.9** ± 9.5% (k=2)	Boundary effect:	
ConvF Y	**4.9** ± 9.5% (k=2)	Alpha	**0.54**
ConvF Z	**4.9** ± 9.5% (k=2)	Depth	**2.64**

Conversion Factor Assessment





Head **1900 MHz** ε_r **= 40.0 ± 5%** σ **= 1.40 ± 5% mho/m**

Valid for f=1805-1995 MHz with Head Tissue Simulating Liquid according to EN 50361, P1528-200X

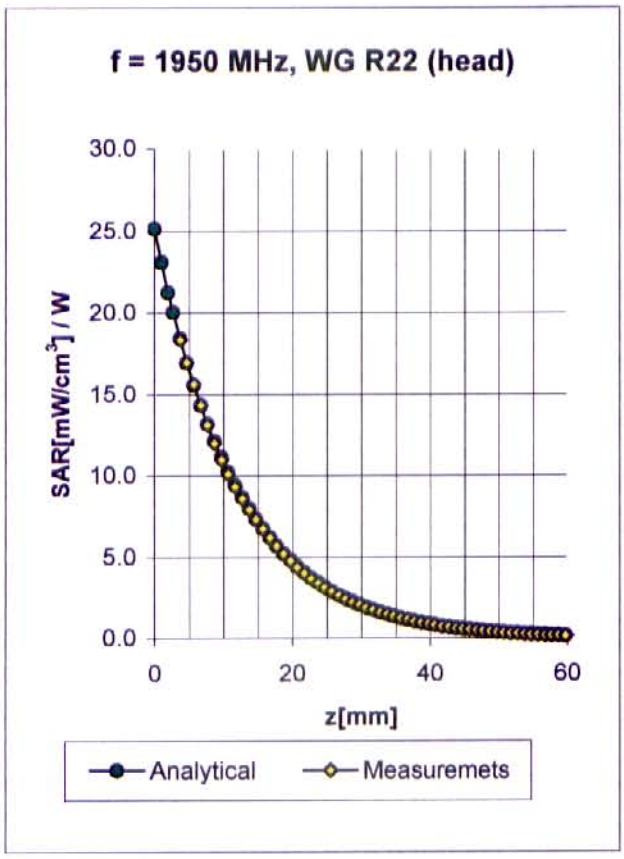
ConvF X	**5.2** ± 9.5% (k=2)	Boundary effect:	
ConvF Y	**5.2** ± 9.5% (k=2)	Alpha	**0.52**
ConvF Z	**5.2** ± 9.5% (k=2)	Depth	**2.67**

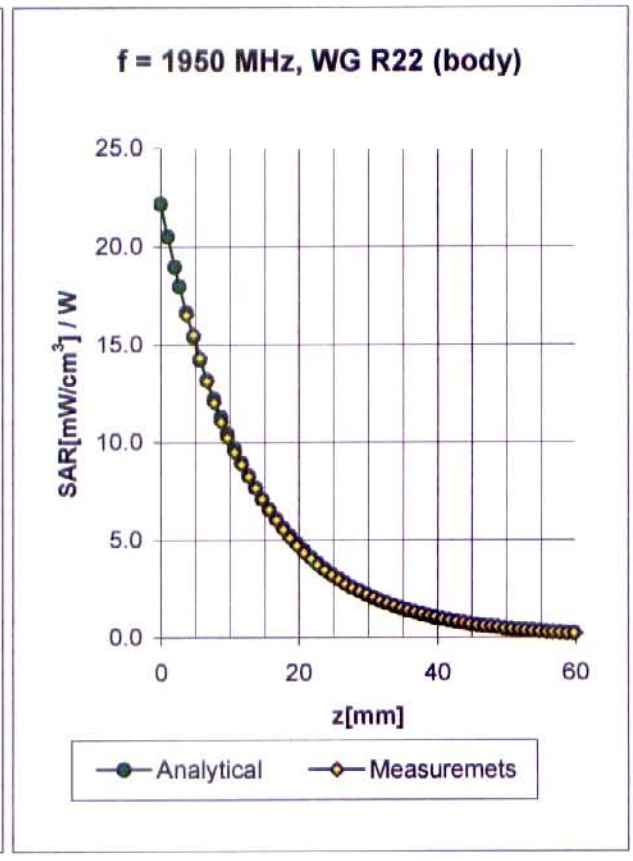
Body **1900 MHz** ε_r **= 53.3 ± 5%** σ **= 1.52 ± 5% mho/m**

Valid for f=1805-1995 MHz with Body Tissue Simulating Liquid according to OET 65 Suppl. C

ConvF X	**4.7** ± 9.5% (k=2)	Boundary effect:	
ConvF Y	**4.7** ± 9.5% (k=2)	Alpha	**0.64**
ConvF Z	**4.7** ± 9.5% (k=2)	Depth	**2.45**

Conversion Factor Assessment





Head **1950 MHz** ε_r **= 40.0 ± 5%** σ **= 1.40 ± 5% mho/m**

Valid for f=1853-2048 MHz with Head Tissue Simulating Liquid according to EN 50361, P1528-200X

ConvF X	**5.2** ± 9.5% (k=2)	Boundary effect:	
ConvF Y	**5.2** ± 9.5% (k=2)	Alpha	**0.51**
ConvF Z	**5.2** ± 9.5% (k=2)	Depth	**2.59**

Body **1950 MHz** ε_r **= 53.3 ± 5%** σ **= 1.52 ± 5% mho/m**

Valid for f=1853-2048 MHz with Body Tissue Simulating Liquid according to OET 65 Suppl. C

ConvF X	**4.6** ± 9.5% (k=2)	Boundary effect:	
ConvF Y	**4.6** ± 9.5% (k=2)	Alpha	**0.65**
ConvF Z	**4.6** ± 9.5% (k=2)	Depth	**2.34**

Deviation from Isotropy in HSL

Error ($\theta\phi$), f = 900 MHz