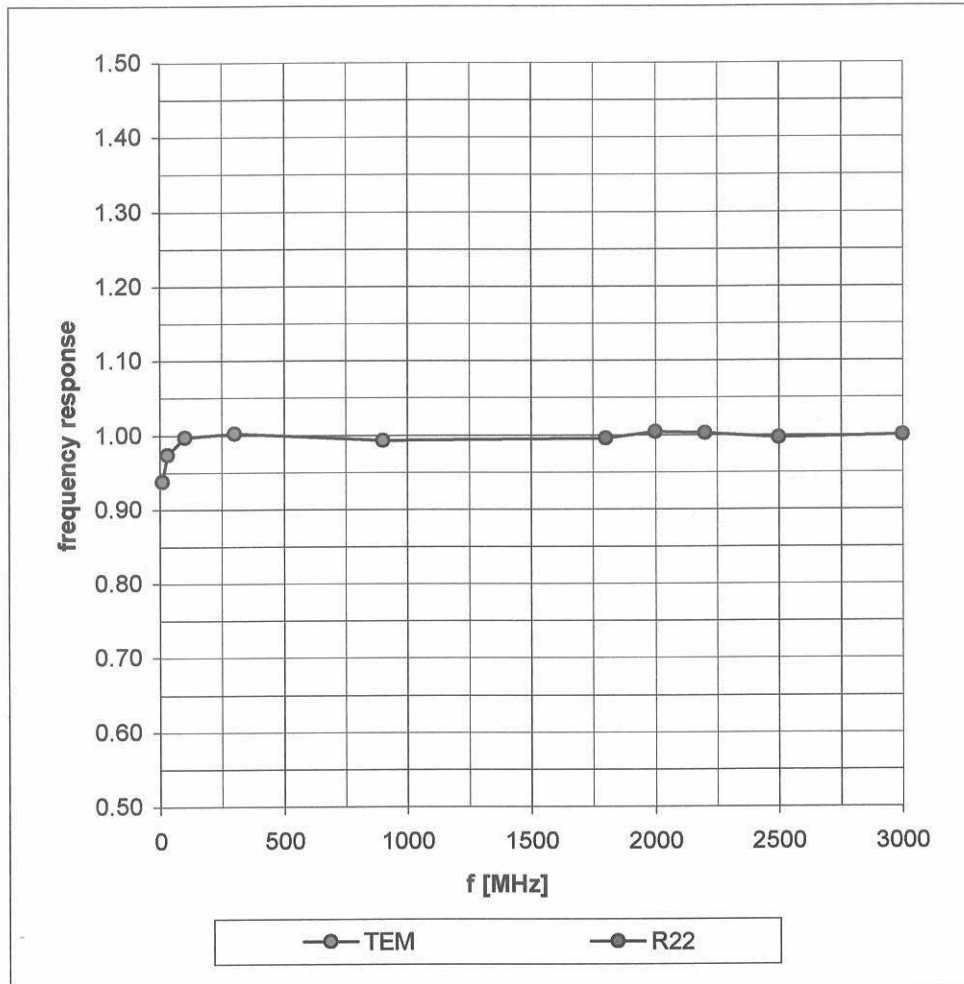
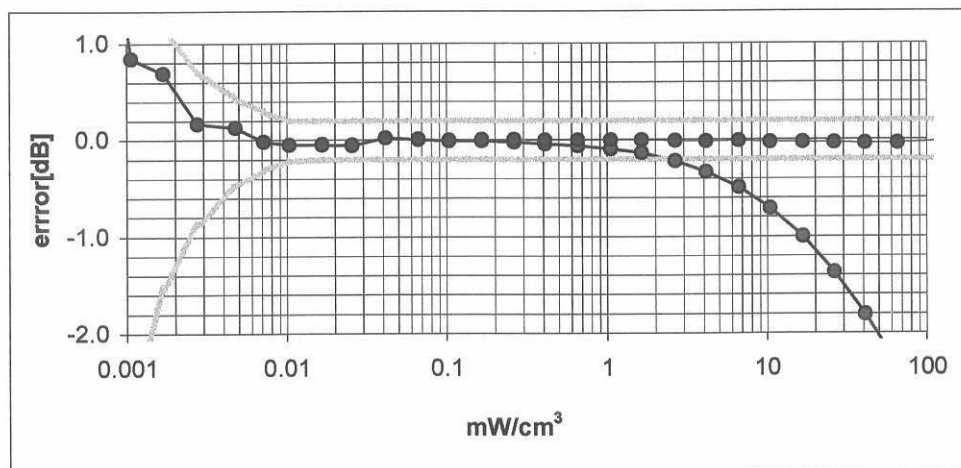
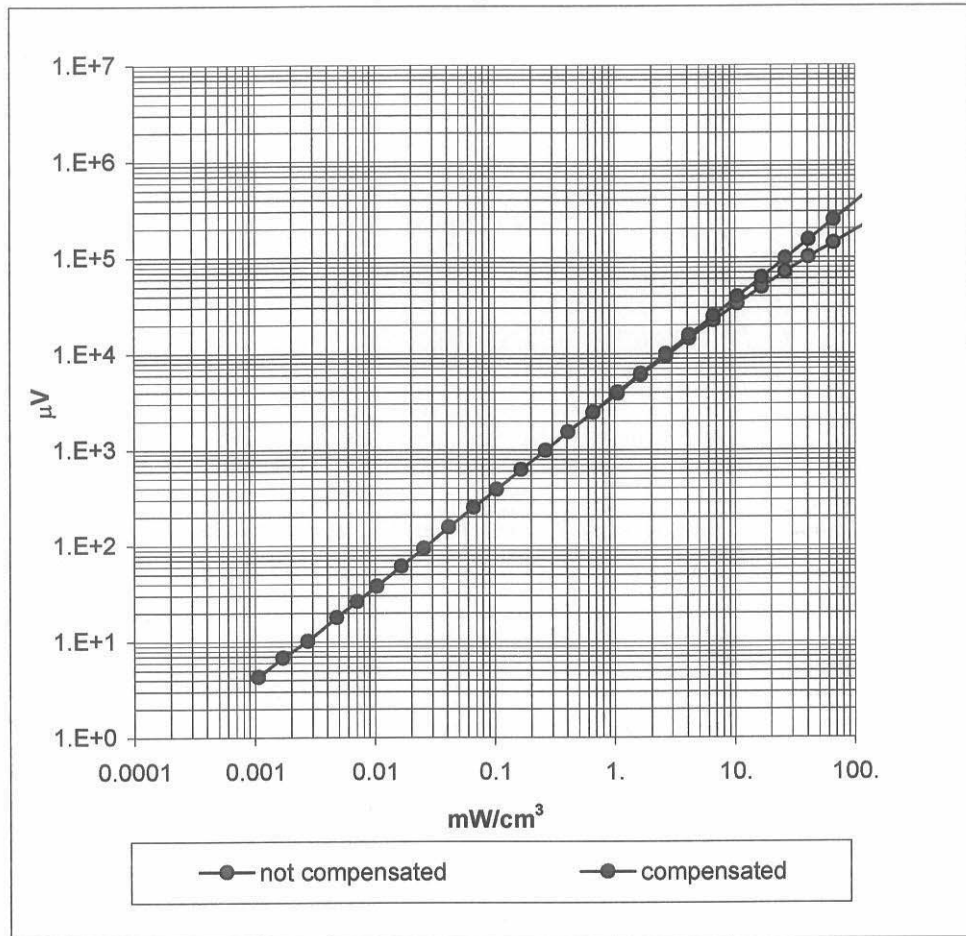


Frequency Response of E-Field

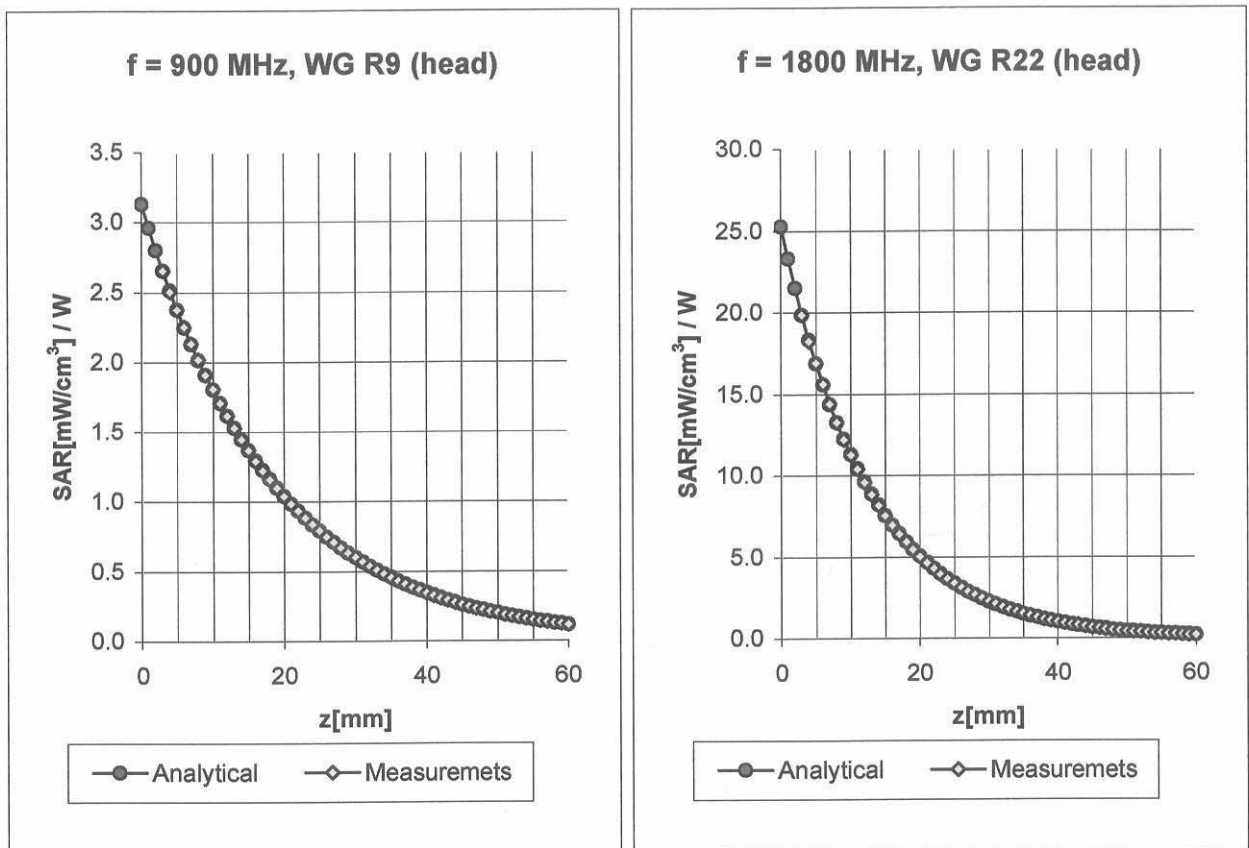
(TEM-Cell:ifi110, Waveguide R22)



Dynamic Range $f(\text{SAR}_{\text{brain}})$ (Waveguide R22)



Conversion Factor Assessment



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

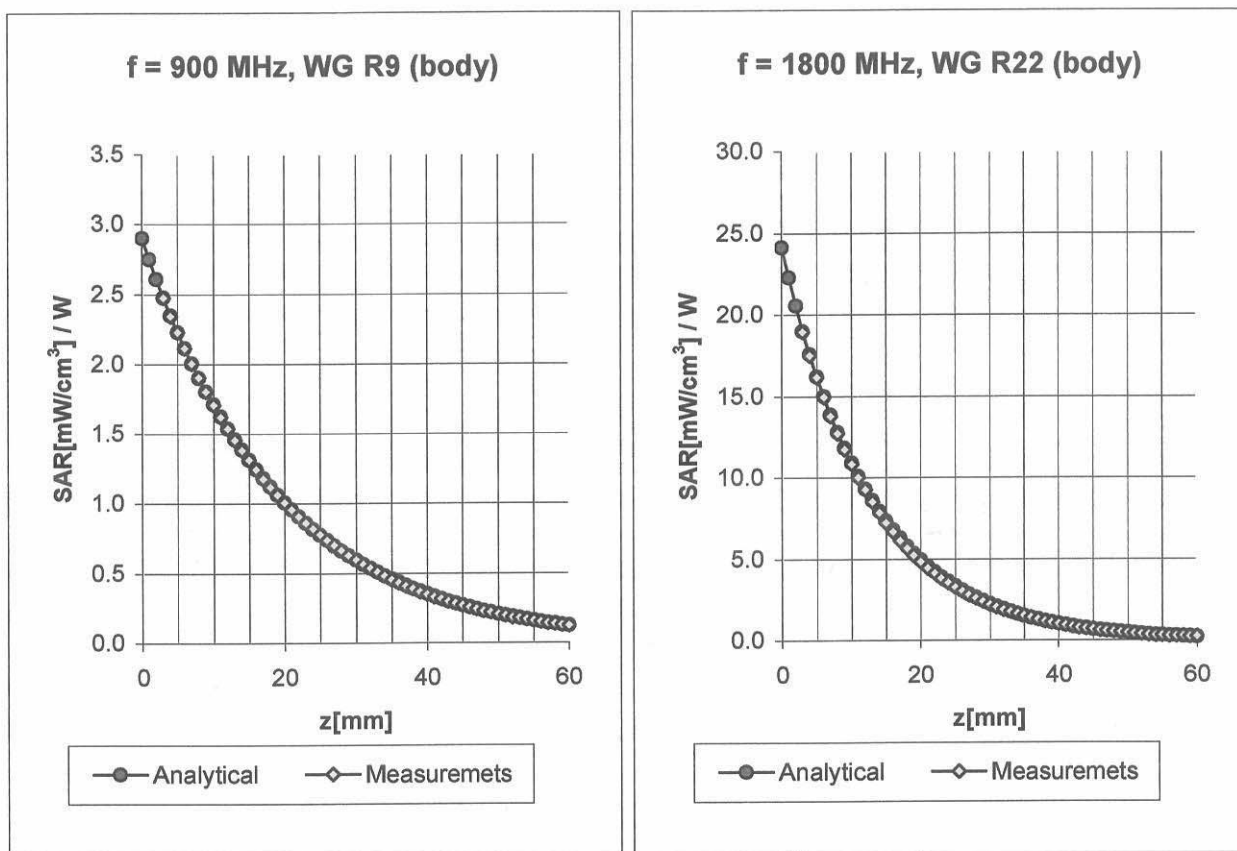
ConvF X	6.0 $\pm 9.5\%$ (k=2)	Boundary effect:
ConvF Y	6.0 $\pm 9.5\%$ (k=2)	Alpha 0.33
ConvF Z	6.0 $\pm 9.5\%$ (k=2)	Depth 1.66

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	4.9 $\pm 9.5\%$ (k=2)	Boundary effect:
ConvF Y	4.9 $\pm 9.5\%$ (k=2)	Alpha 0.23
ConvF Z	4.9 $\pm 9.5\%$ (k=2)	Depth 2.54

Conversion Factor Assessment



Body **900 MHz** $\epsilon_r = 55.0 \pm 5\%$ $\sigma = 1.05 \pm 5\% \text{ mho/m}$

Valid for f=800-1000 MHz with Body Tissue Simulating Liquid according to OET 65 Suppl. C

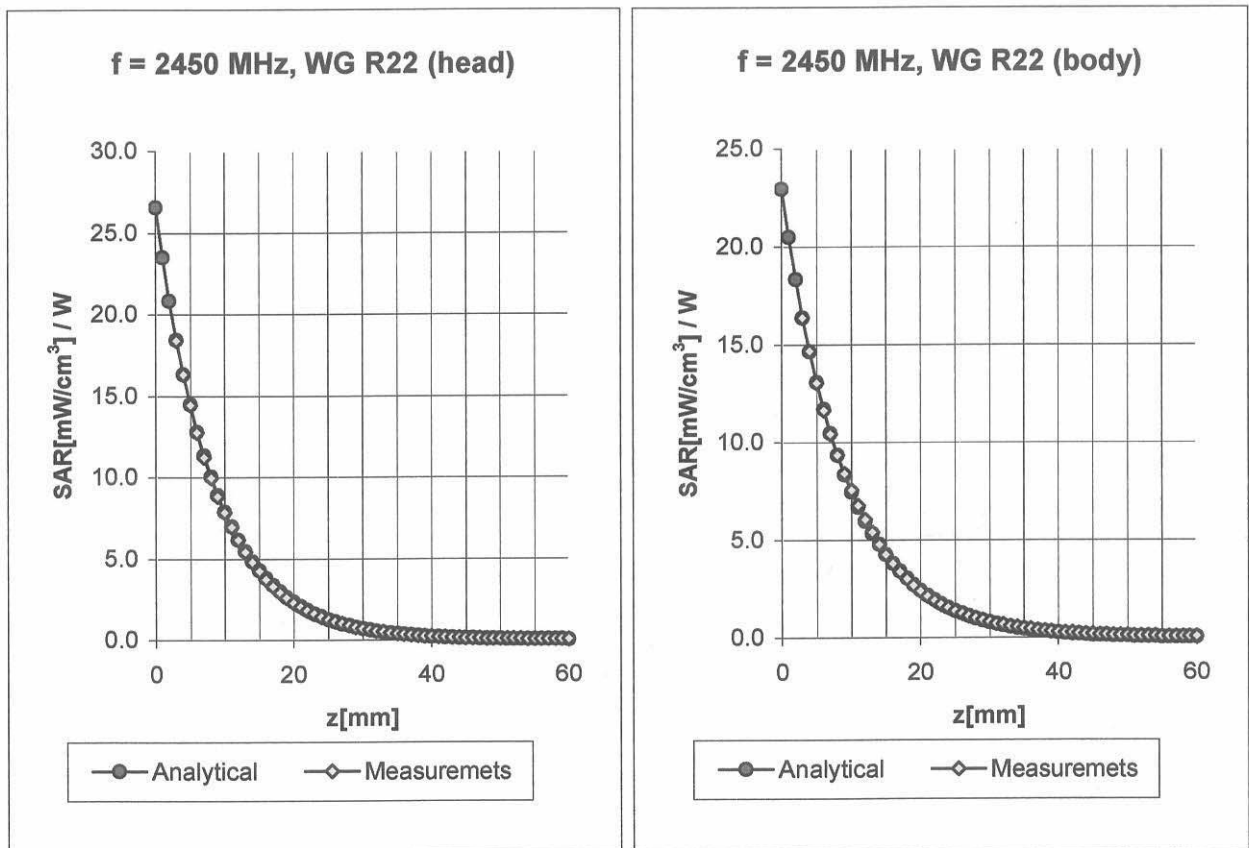
ConvF X	6.0 $\pm 9.5\%$ (k=2)	Boundary effect:
ConvF Y	6.0 $\pm 9.5\%$ (k=2)	Alpha 0.43
ConvF Z	6.0 $\pm 9.5\%$ (k=2)	Depth 1.44

Body **1800 MHz** $\epsilon_r = 53.3 \pm 5\%$ $\sigma = 1.52 \pm 5\% \text{ mho/m}$

Valid for f=1710-1910 MHz with Body Tissue Simulating Liquid according to OET 65 Suppl. C

ConvF X	4.5 $\pm 9.5\%$ (k=2)	Boundary effect:
ConvF Y	4.5 $\pm 9.5\%$ (k=2)	Alpha 0.26
ConvF Z	4.5 $\pm 9.5\%$ (k=2)	Depth 2.61

Conversion Factor Assessment



Head 2450 MHz $\epsilon_r = 39.2 \pm 5\%$ $\sigma = 1.80 \pm 5\%$ mho/m

Valid for f=2400-2500 MHz with Head Tissue Simulating Liquid according to EN 50361, P1528-200X

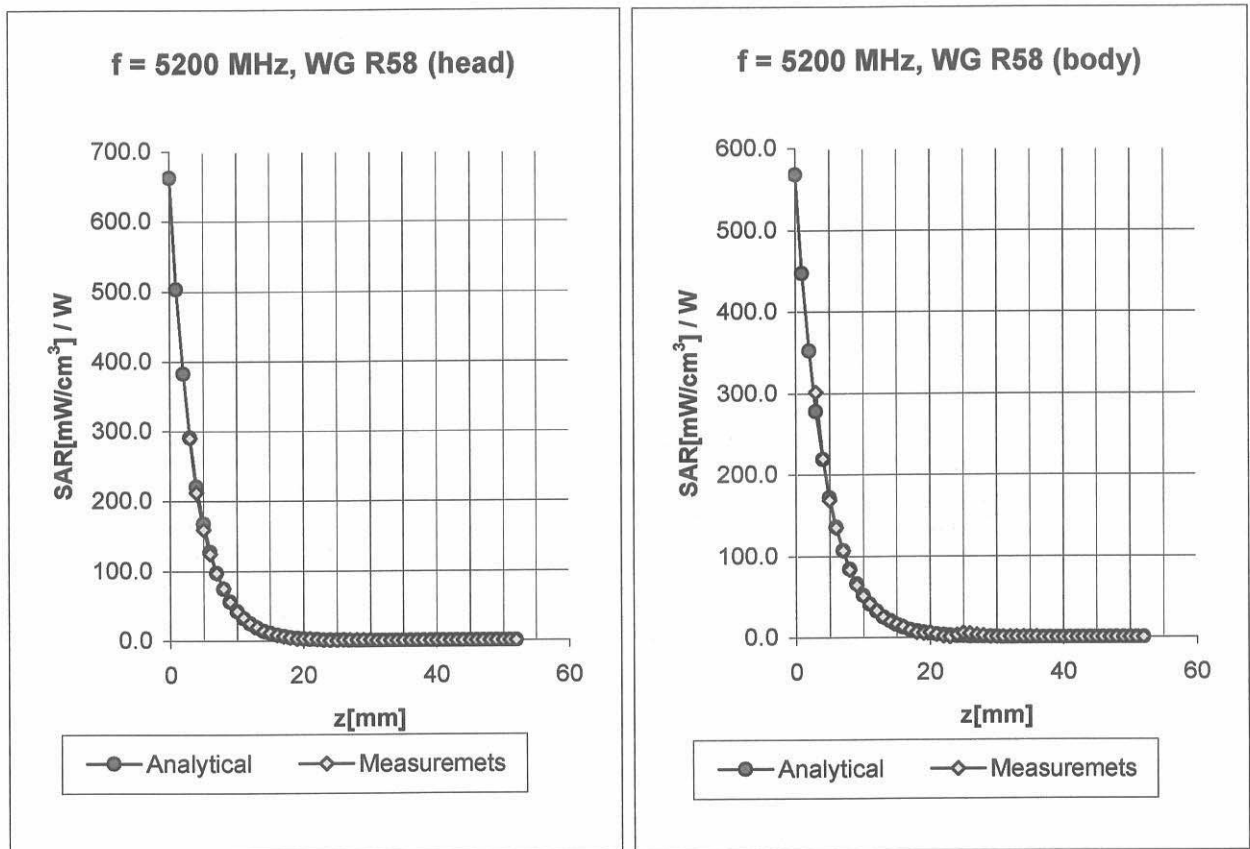
ConvF X	4.4 $\pm 9.5\%$ (k=2)	Boundary effect:
ConvF Y	4.4 $\pm 9.5\%$ (k=2)	Alpha 0.38
ConvF Z	4.4 $\pm 9.5\%$ (k=2)	Depth 1.66

Body 2450 MHz $\epsilon_r = 52.7 \pm 5\%$ $\sigma = 1.95 \pm 5\%$ mho/m

Valid for f=2400-2500 MHz with Body Tissue Simulating Liquid according to OET 65 Suppl. C

ConvF X	4.1 $\pm 9.5\%$ (k=2)	Boundary effect:
ConvF Y	4.1 $\pm 9.5\%$ (k=2)	Alpha 0.35
ConvF Z	4.1 $\pm 9.5\%$ (k=2)	Depth 1.94

Conversion Factor Assessment



Head 5200 MHz $\epsilon_r = 36.0 \pm 5\%$ $\sigma = 4.66 \pm 5\%$ mho/m

Valid for f=4940-5460 MHz with Head Tissue Simulating Liquid according to OET65-SuppC

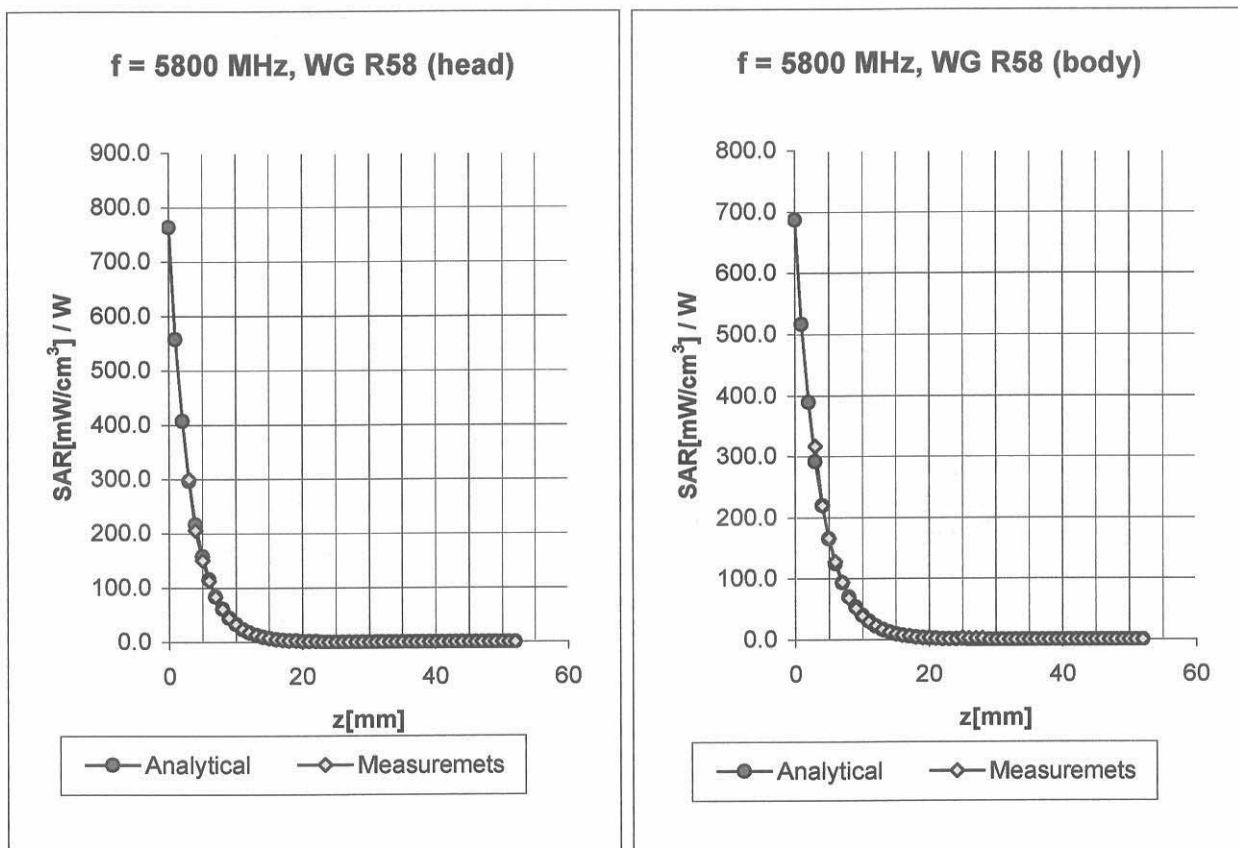
ConvF X	2.70 $\pm 16.6\%$ (k=2)	Boundary effect:
ConvF Y	2.70 $\pm 16.6\%$ (k=2)	Alpha 0.75
ConvF Z	2.70 $\pm 16.6\%$ (k=2)	Depth 1.45

Body 5200 MHz $\epsilon_r = 49.0 \pm 5\%$ $\sigma = 5.30 \pm 5\%$ mho/m

Valid for f=4940-5460 MHz with Body Tissue Simulating Liquid according to OET65-SuppC

ConvF X	1.82 $\pm 16.6\%$ (k=2)	Boundary effect:
ConvF Y	1.82 $\pm 16.6\%$ (k=2)	Alpha 0.90
ConvF Z	1.82 $\pm 16.6\%$ (k=2)	Depth 1.70

Conversion Factor Assessment



Head 5800 MHz $\epsilon_r = 35.3 \pm 5\%$ $\sigma = 5.27 \pm 5\%$ mho/m

Valid for f=4940-5460 MHz with Head Tissue Simulating Liquid according to OET65-SuppC

ConvF X	2.40 $\pm 16.6\%$ (k=2)	Boundary effect:
ConvF Y	2.40 $\pm 16.6\%$ (k=2)	Alpha 0.89
ConvF Z	2.40 $\pm 16.6\%$ (k=2)	Depth 1.30

Body 5800 MHz $\epsilon_r = 48.2 \pm 5\%$ $\sigma = 6.0 \pm 5\%$ mho/m

Valid for f=4940-5460 MHz with Body Tissue Simulating Liquid according to OET65-SuppC

ConvF X	1.50 $\pm 16.6\%$ (k=2)	Boundary effect:
ConvF Y	1.50 $\pm 16.6\%$ (k=2)	Alpha 1.01
ConvF Z	1.50 $\pm 16.6\%$ (k=2)	Depth 1.85

Deviation from Isotropy in HSL

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

