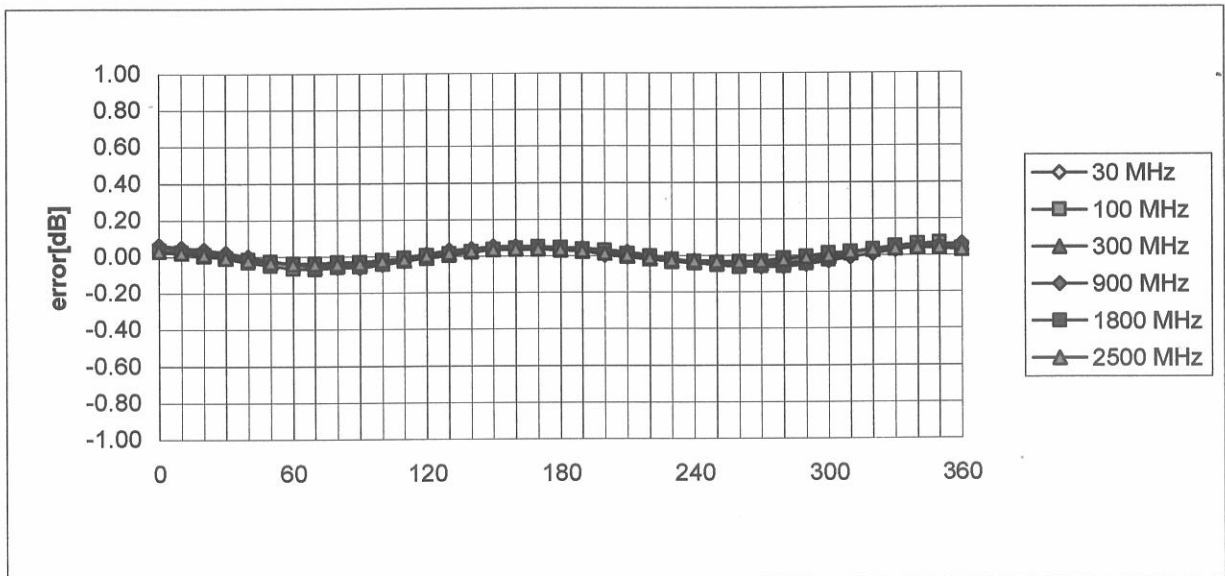
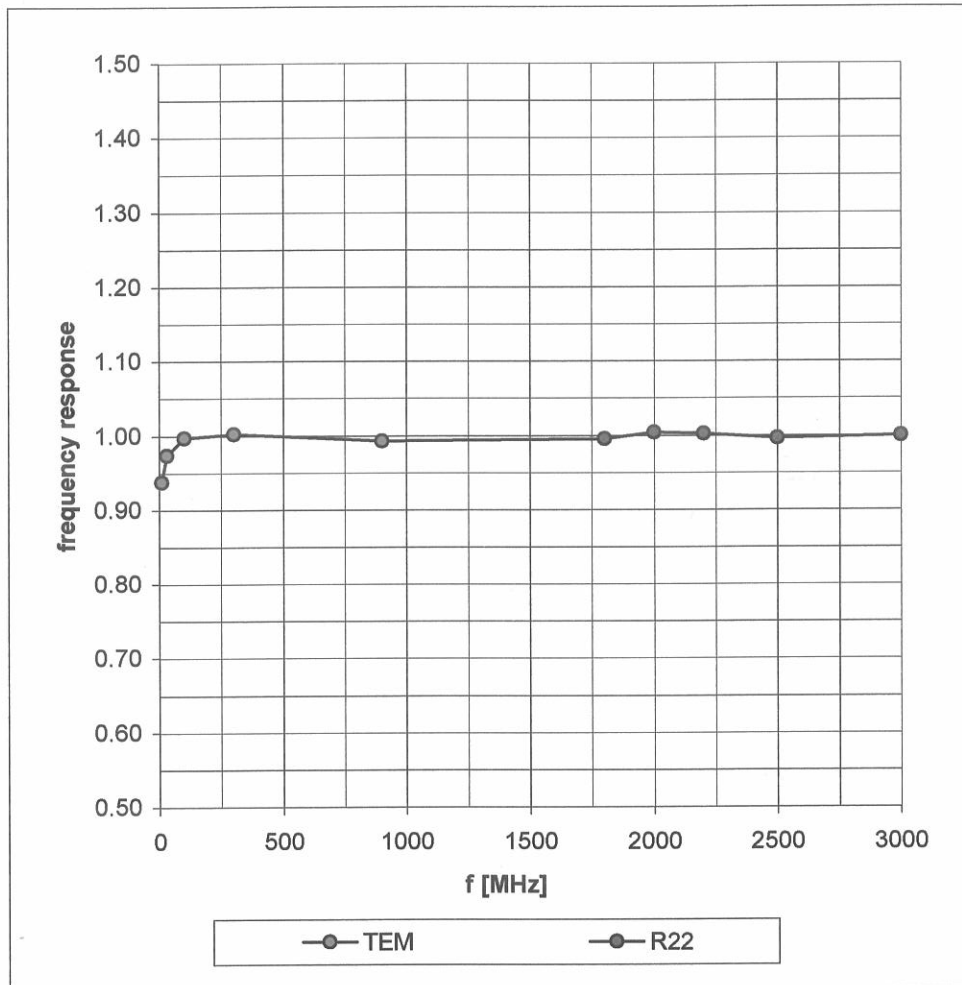


### Isotropy Error ( $\phi$ ), $\theta = 0^\circ$

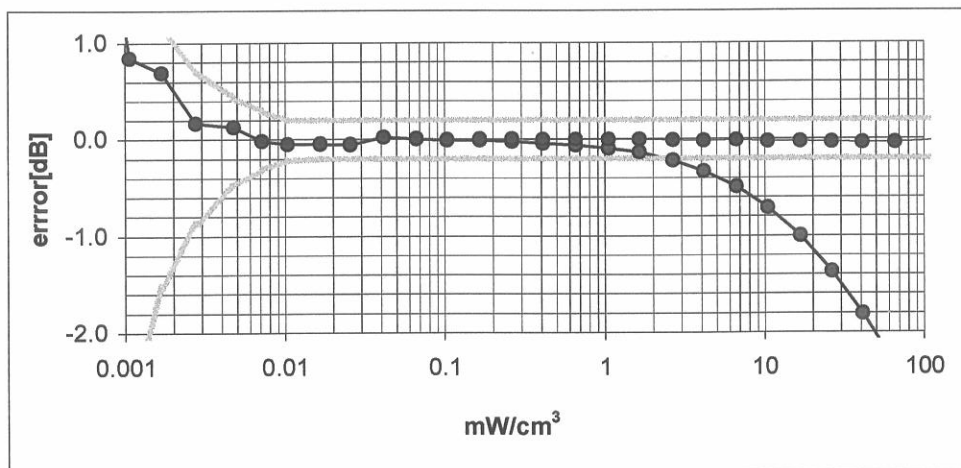
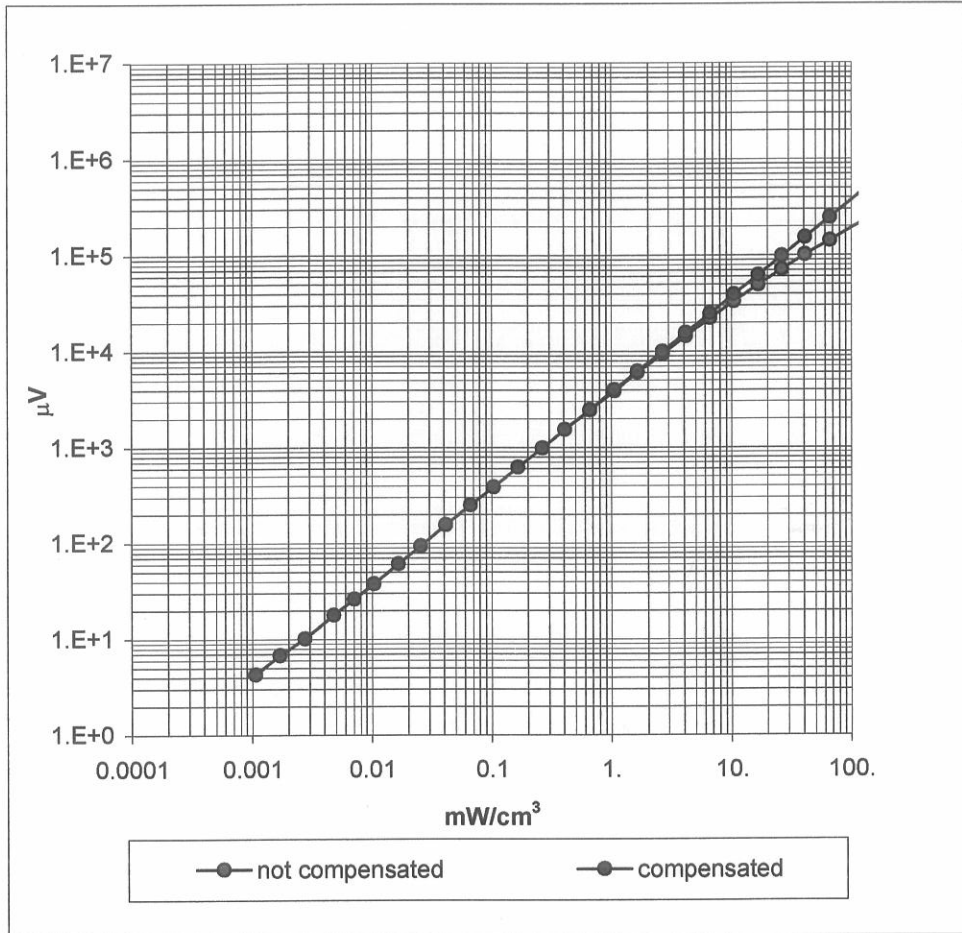


# Frequency Response of E-Field

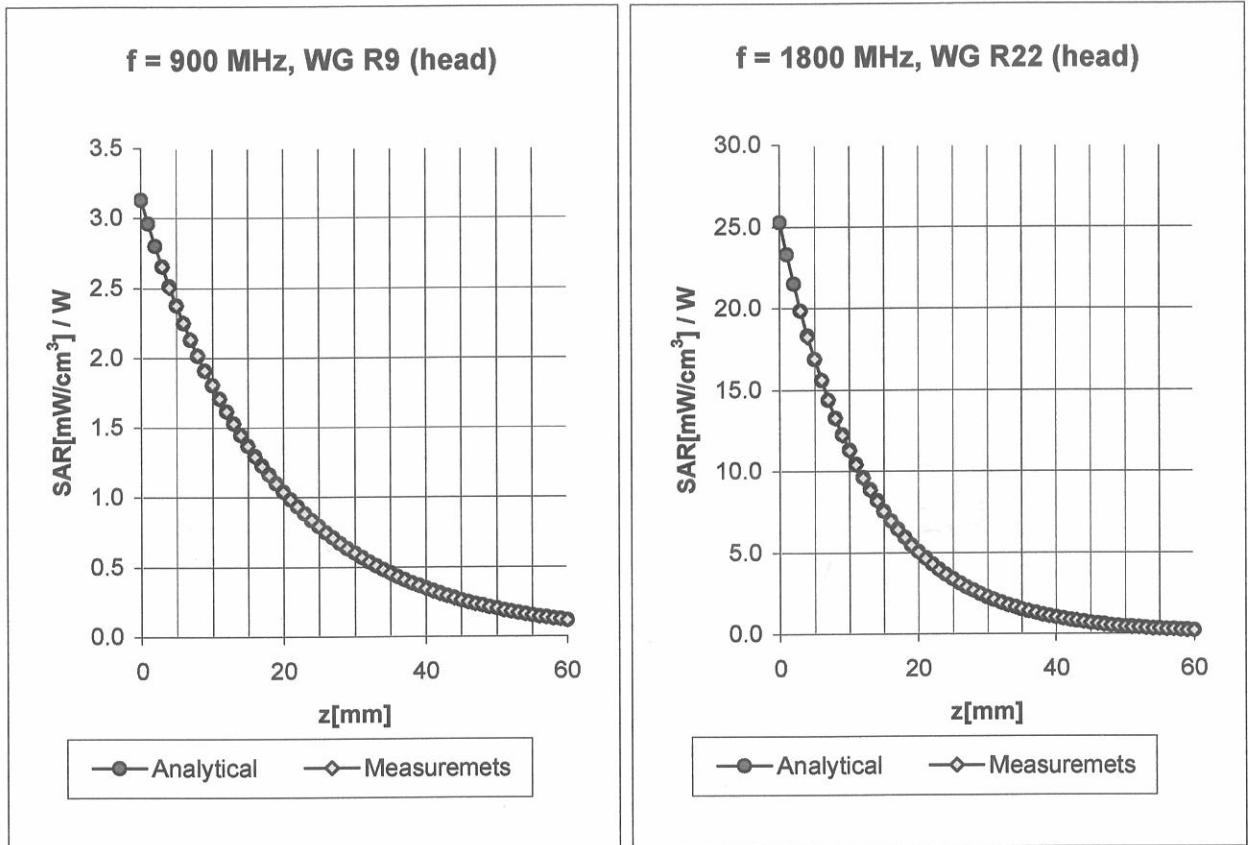
( TEM-Cell:ifi110, Waveguide R22)



## Dynamic Range f(SAR<sub>brain</sub>) ( 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**

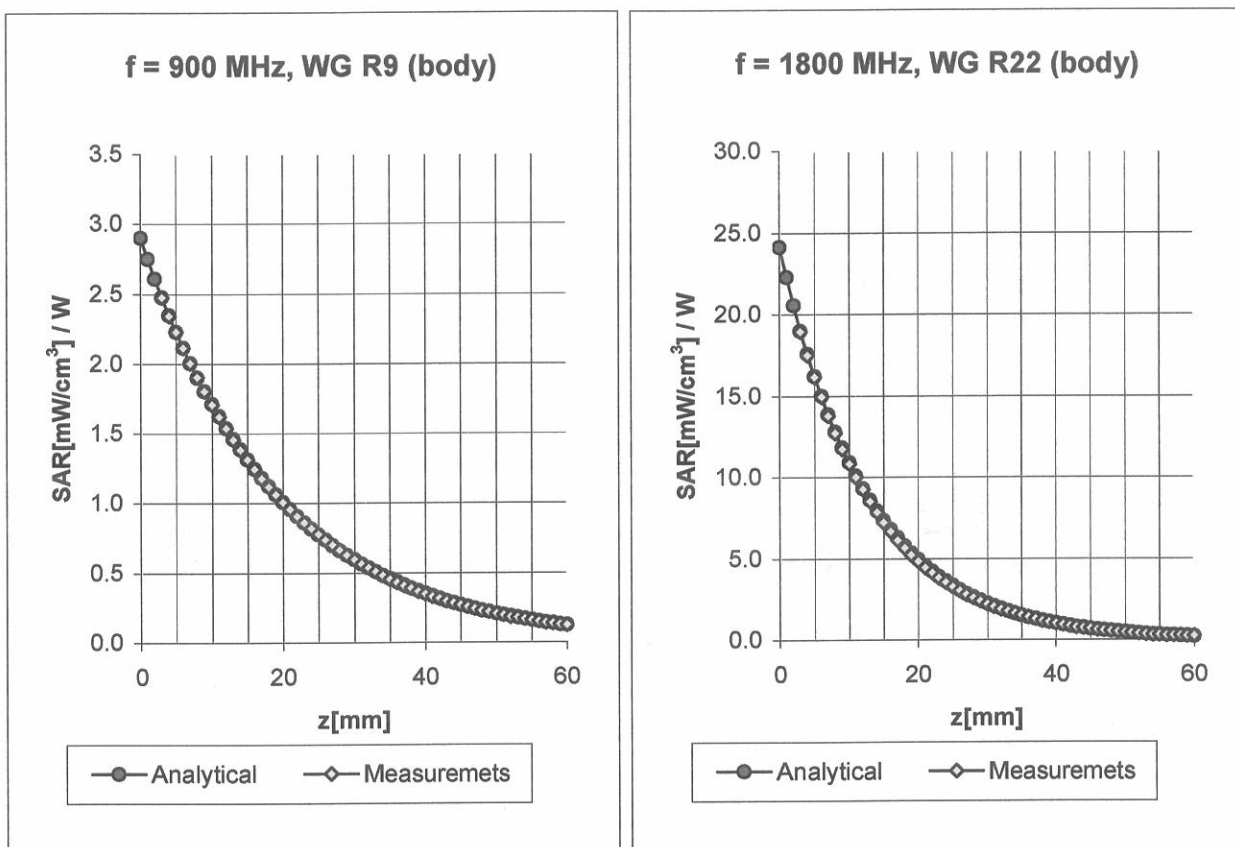
ConvF X	<b>6.0</b> $\pm$ 9.5% (k=2)	Boundary effect:
ConvF Y	<b>6.0</b> $\pm$ 9.5% (k=2)	Alpha <b>0.33</b>
ConvF Z	<b>6.0</b> $\pm$ 9.5% (k=2)	Depth <b>1.66</b>

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

## Conversion Factor Assessment



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

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

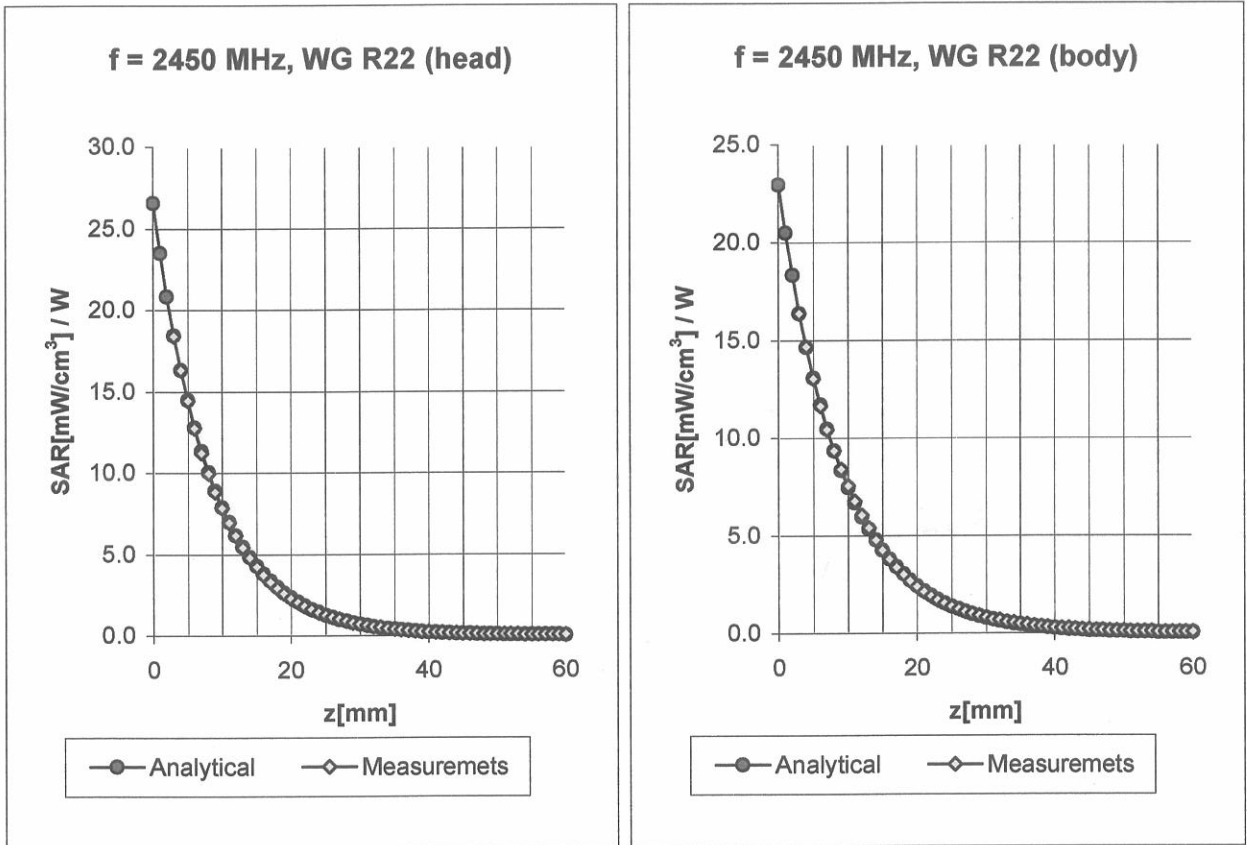
ConvF X	<b>6.0</b> $\pm$ 9.5% (k=2)	Boundary effect:
ConvF Y	<b>6.0</b> $\pm$ 9.5% (k=2)	Alpha <b>0.43</b>
ConvF Z	<b>6.0</b> $\pm$ 9.5% (k=2)	Depth <b>1.44</b>

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

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

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

## 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**

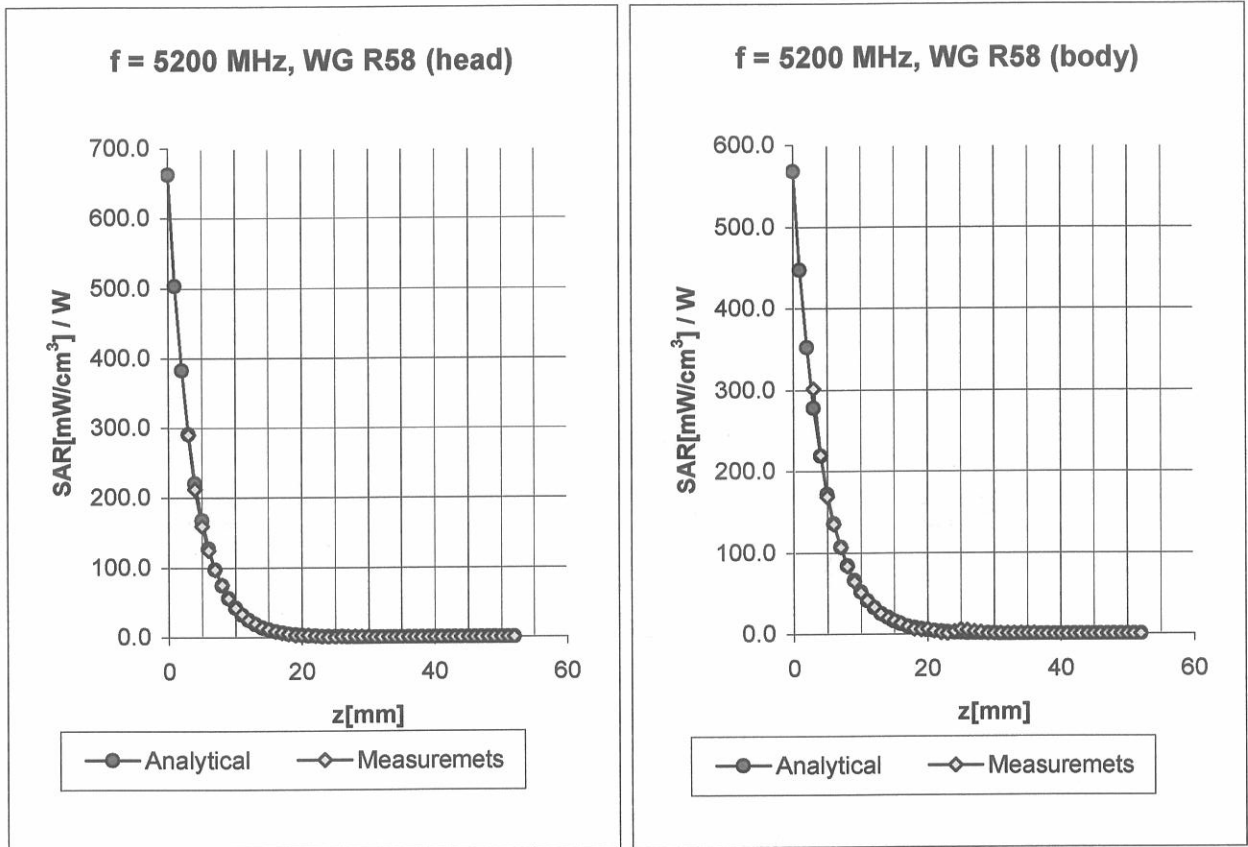
ConvF X	<b>4.4</b> $\pm$ 9.5% (k=2)	Boundary effect:	
ConvF Y	<b>4.4</b> $\pm$ 9.5% (k=2)	Alpha	<b>0.38</b>
ConvF Z	<b>4.4</b> $\pm$ 9.5% (k=2)	Depth	<b>1.66</b>

**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	<b>4.1</b> $\pm$ 9.5% (k=2)	Boundary effect:	
ConvF Y	<b>4.1</b> $\pm$ 9.5% (k=2)	Alpha	<b>0.35</b>
ConvF Z	<b>4.1</b> $\pm$ 9.5% (k=2)	Depth	<b>1.94</b>

## 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**

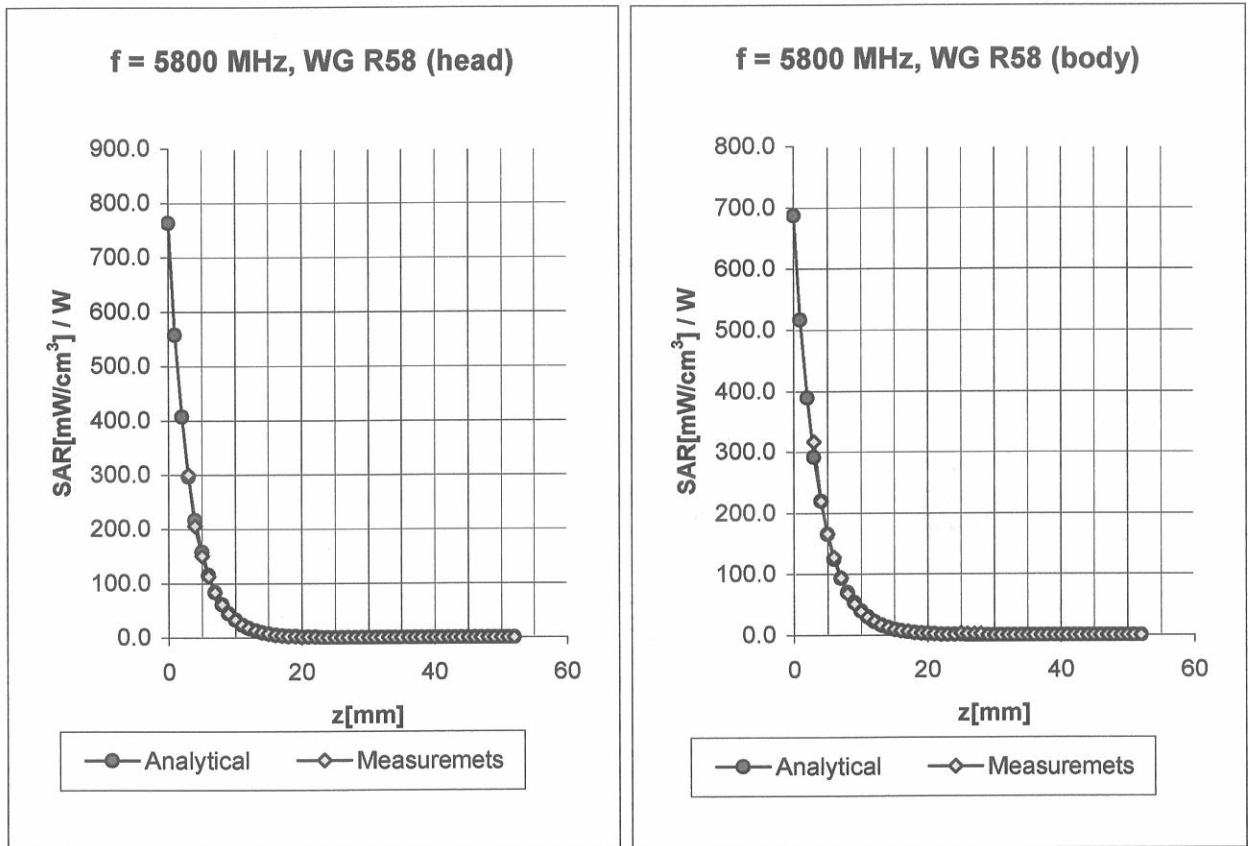
ConvF X	<b>2.70</b> $\pm 16.6\%$ (k=2)	Boundary effect:	
ConvF Y	<b>2.70</b> $\pm 16.6\%$ (k=2)	Alpha	<b>0.75</b>
ConvF Z	<b>2.70</b> $\pm 16.6\%$ (k=2)	Depth	<b>1.45</b>

**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	<b>1.82</b> $\pm 16.6\%$ (k=2)	Boundary effect:	
ConvF Y	<b>1.82</b> $\pm 16.6\%$ (k=2)	Alpha	<b>0.90</b>
ConvF Z	<b>1.82</b> $\pm 16.6\%$ (k=2)	Depth	<b>1.70</b>

## 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	<b>2.40</b> $\pm 16.6\%$ (k=2)	Boundary effect:
ConvF Y	<b>2.40</b> $\pm 16.6\%$ (k=2)	Alpha <b>0.89</b>
ConvF Z	<b>2.40</b> $\pm 16.6\%$ (k=2)	Depth <b>1.30</b>

**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	<b>1.50</b> $\pm 16.6\%$ (k=2)	Boundary effect:
ConvF Y	<b>1.50</b> $\pm 16.6\%$ (k=2)	Alpha <b>1.01</b>
ConvF Z	<b>1.50</b> $\pm 16.6\%$ (k=2)	Depth <b>1.85</b>