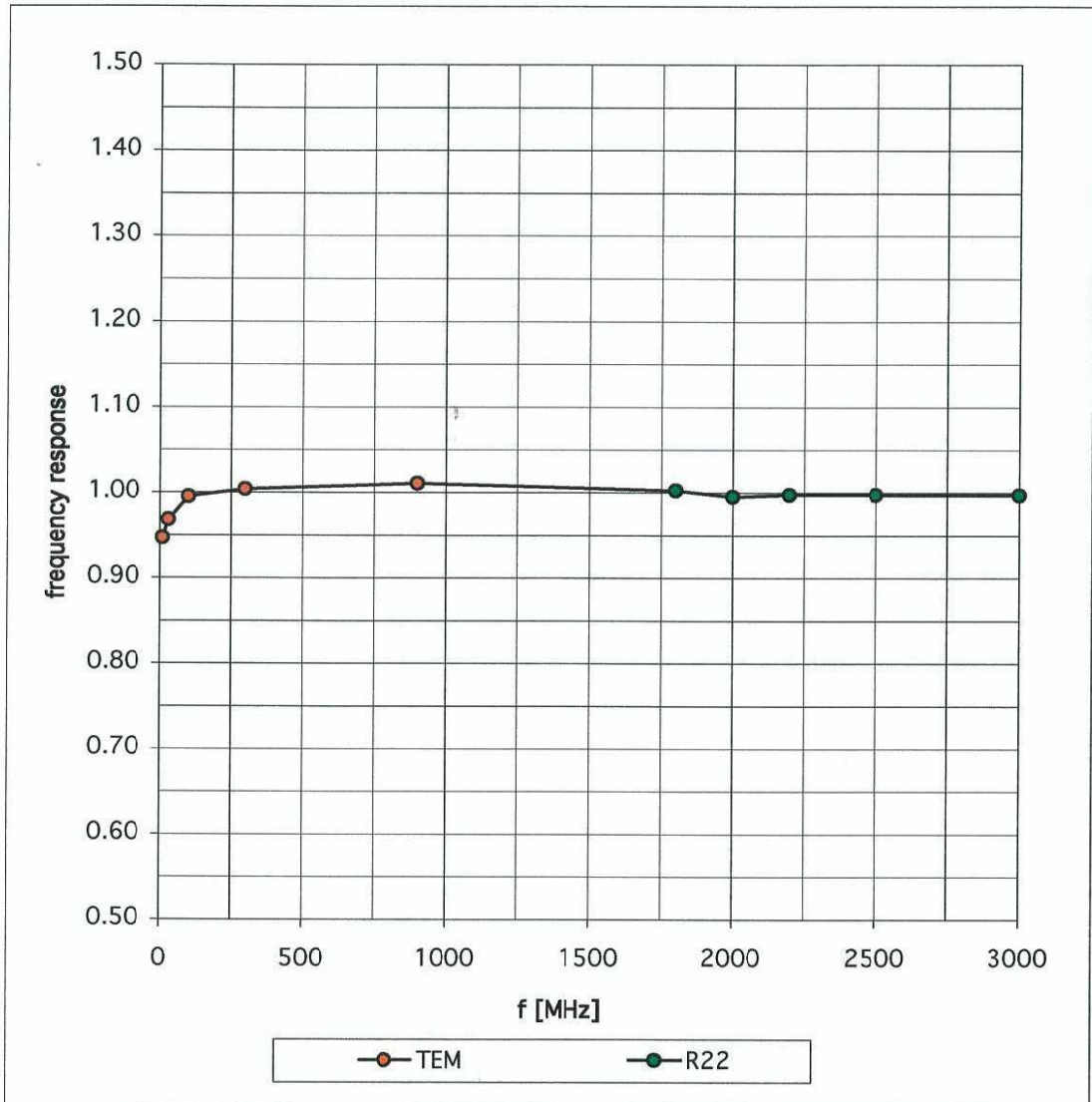


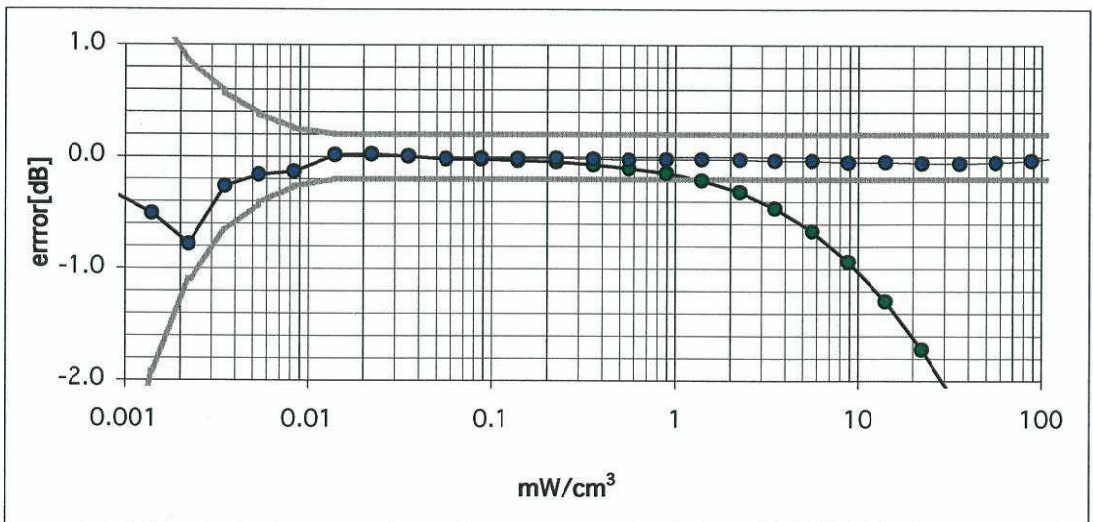
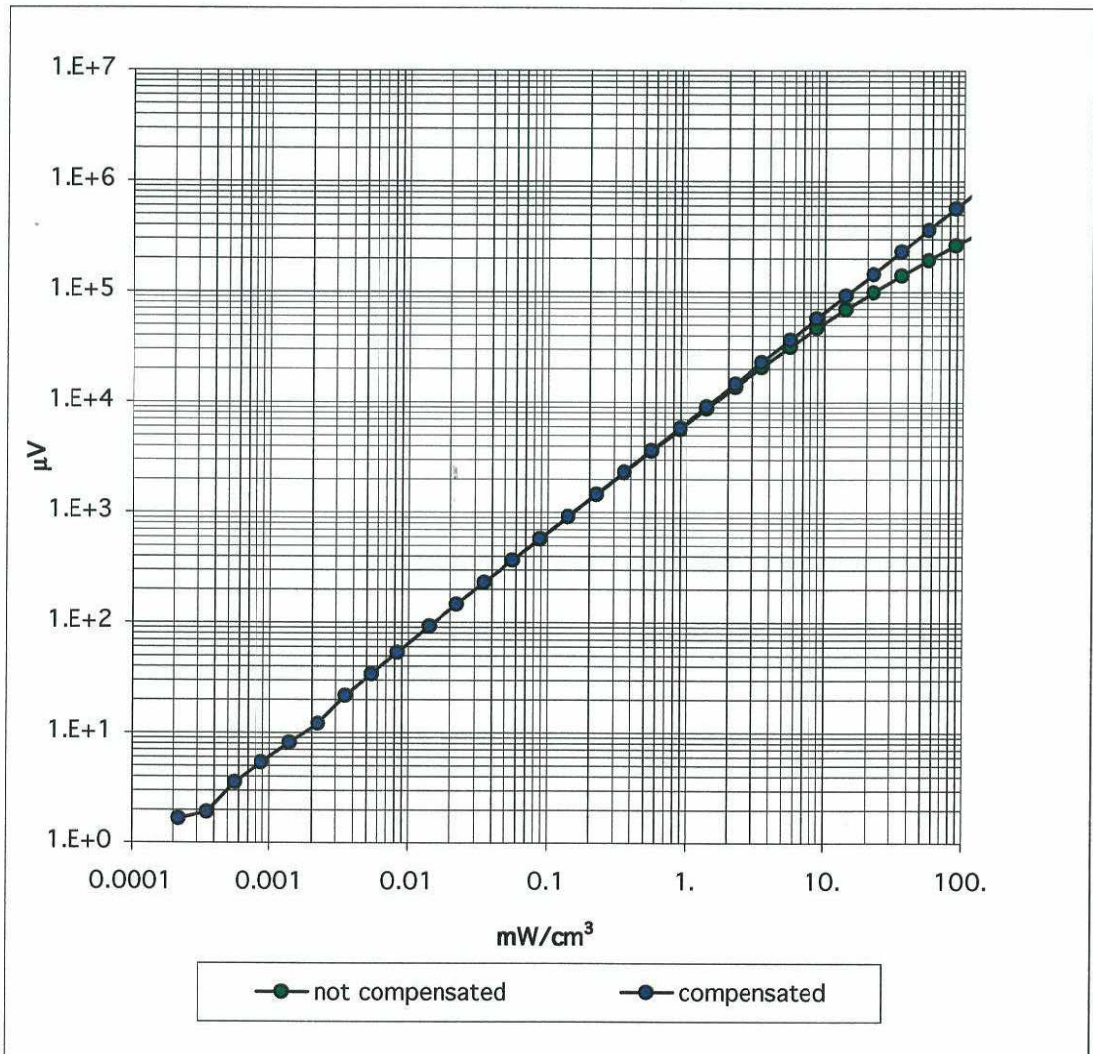
# Frequency Response of E-Field

( TEM-Cell:ifi110, Waveguide R22)

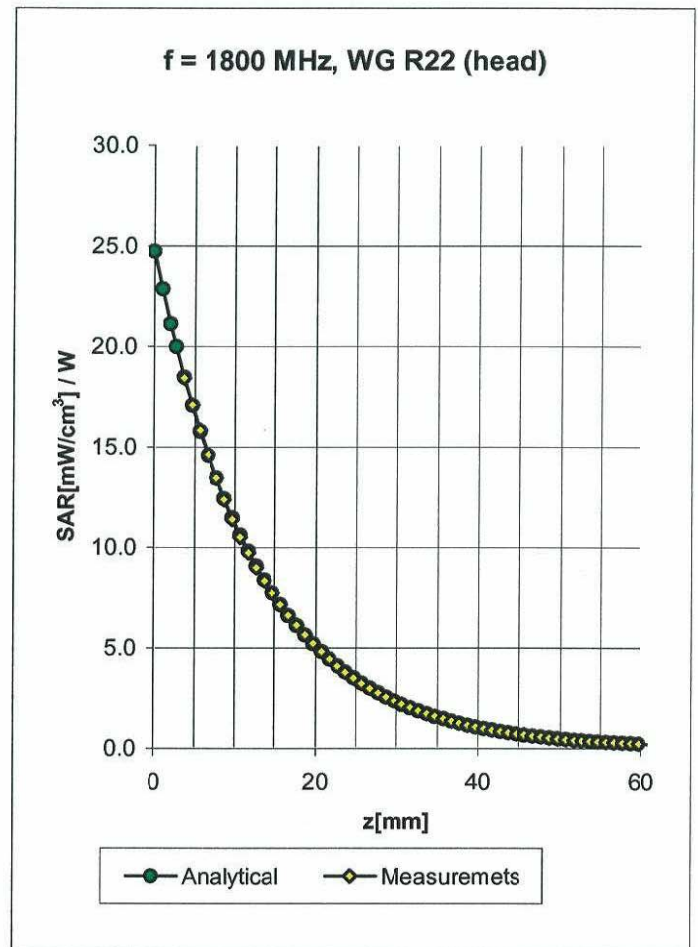
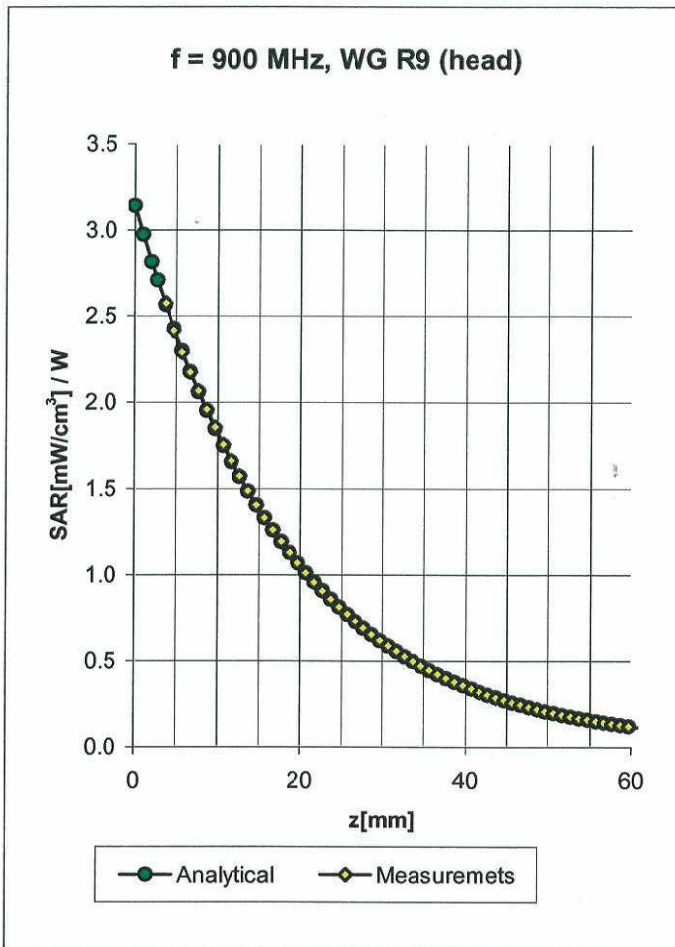


# Dynamic Range f(SARhead)

( 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

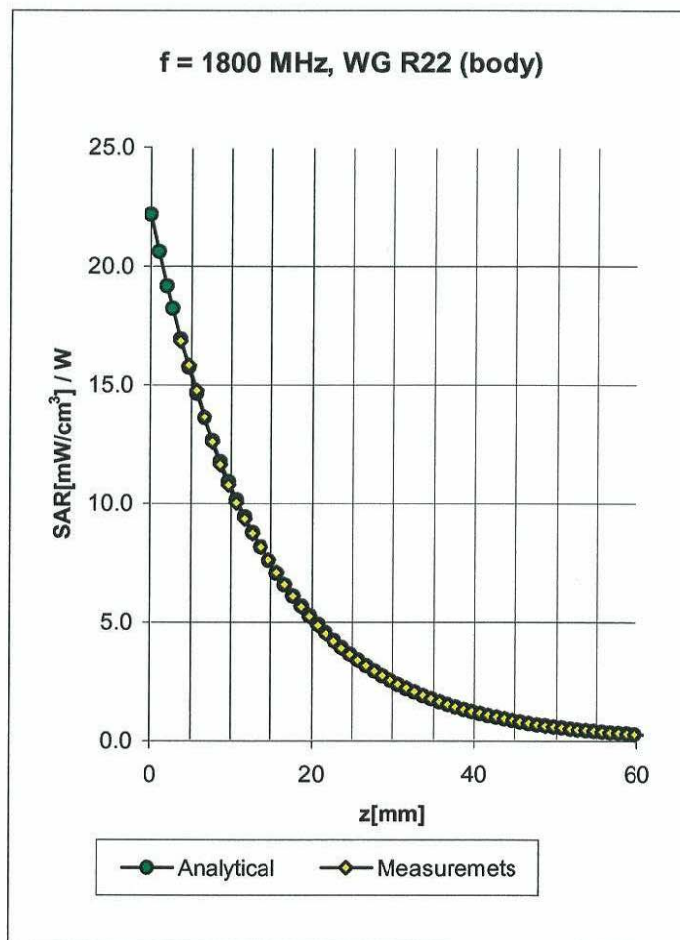
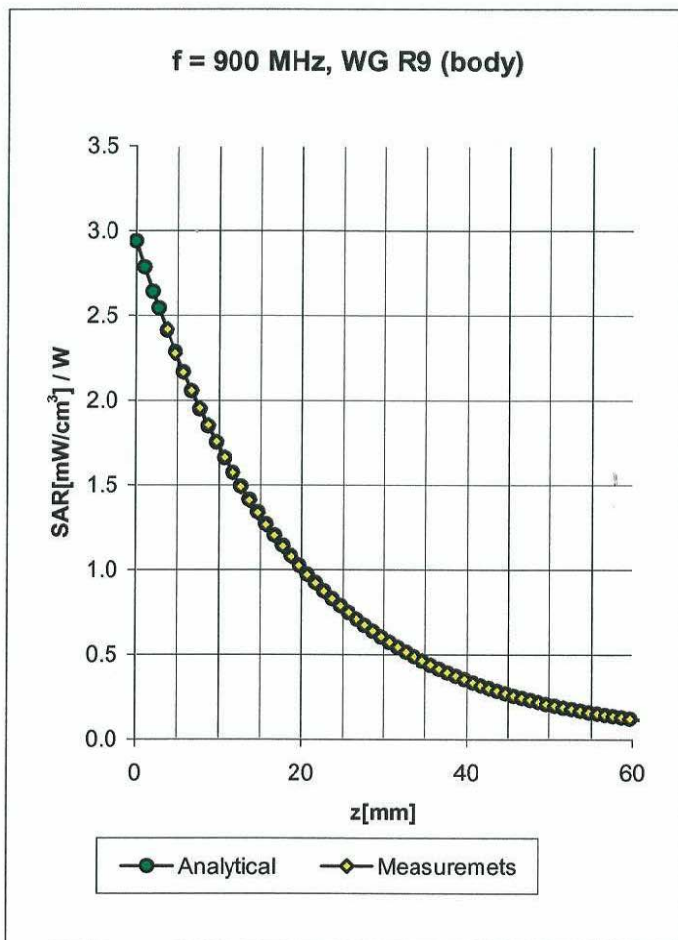
ConvF X	<b>6.7</b> $\pm 9.5\%$ (k=2)	Boundary effect:	
ConvF Y	<b>6.7</b> $\pm 9.5\%$ (k=2)	Alpha	<b>0.39</b>
ConvF Z	<b>6.7</b> $\pm 9.5\%$ (k=2)	Depth	<b>2.46</b>

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

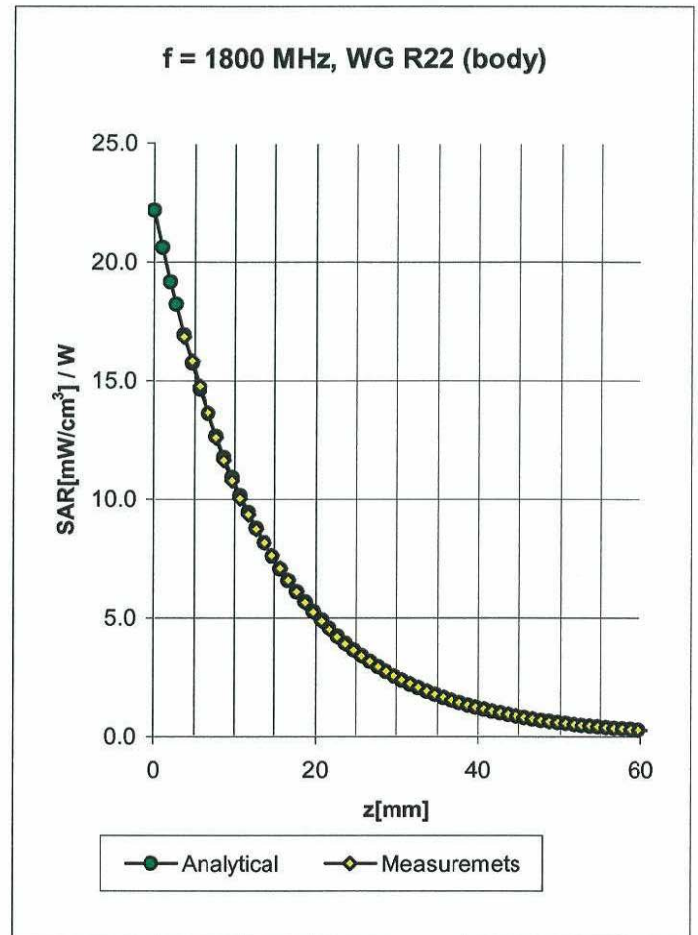
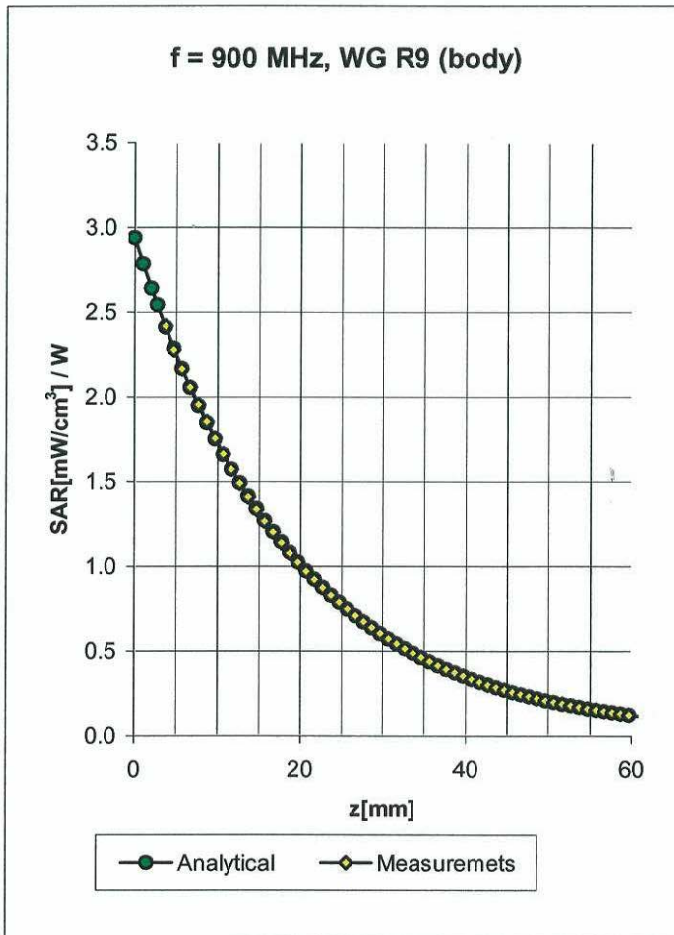
ConvF X	6.3 ± 9.5% (k=2)	Boundary effect:
ConvF Y	6.3 ± 9.5% (k=2)	Alpha <b>0.38</b>
ConvF Z	6.3 ± 9.5% (k=2)	Depth <b>2.56</b>

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	4.9 ± 9.5% (k=2)	Boundary effect:
ConvF Y	4.9 ± 9.5% (k=2)	Alpha <b>0.55</b>
ConvF Z	4.9 ± 9.5% (k=2)	Depth <b>2.69</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

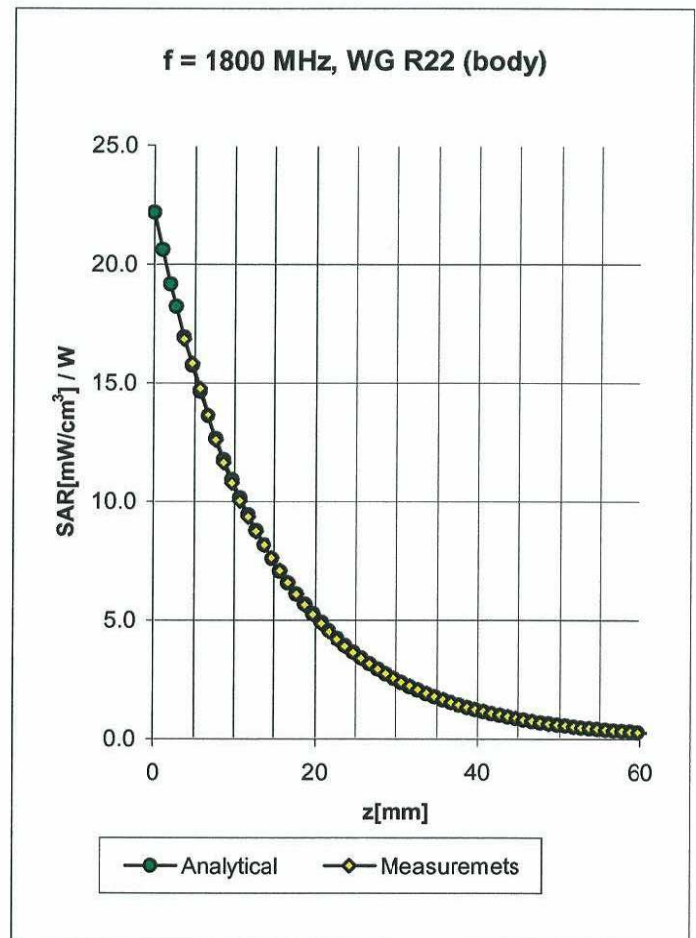
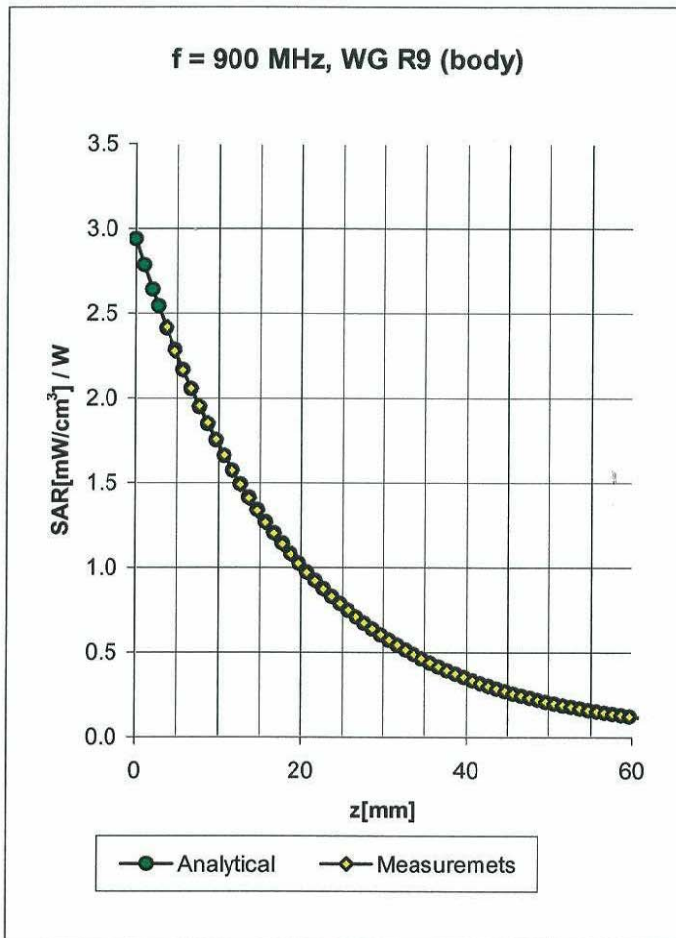
ConvF X	6.3 ± 9.5% (k=2)	Boundary effect:
ConvF Y	6.3 ± 9.5% (k=2)	Alpha <b>0.38</b>
ConvF Z	6.3 ± 9.5% (k=2)	Depth <b>2.56</b>

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	4.9 ± 9.5% (k=2)	Boundary effect:
ConvF Y	4.9 ± 9.5% (k=2)	Alpha <b>0.55</b>
ConvF Z	4.9 ± 9.5% (k=2)	Depth <b>2.69</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

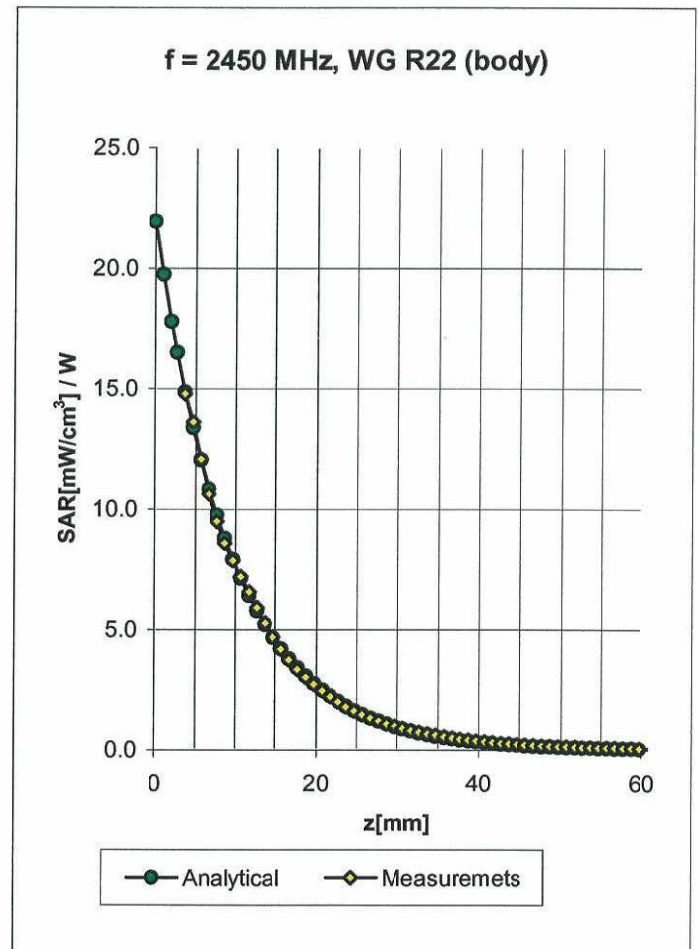
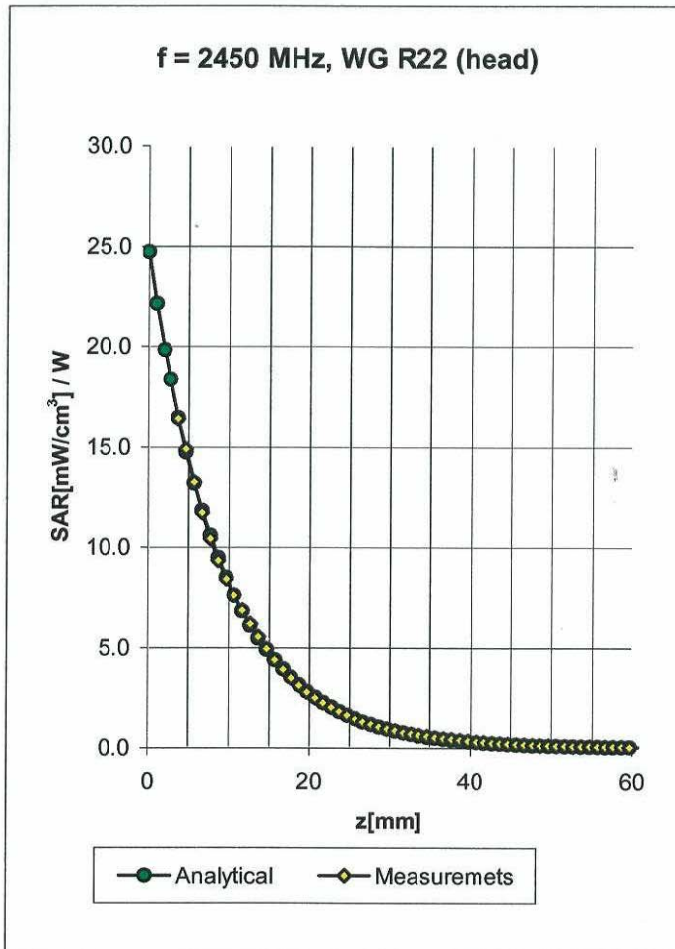
ConvF X	6.3 ± 9.5% (k=2)	Boundary effect:
ConvF Y	6.3 ± 9.5% (k=2)	Alpha <b>0.38</b>
ConvF Z	6.3 ± 9.5% (k=2)	Depth <b>2.56</b>

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	4.9 ± 9.5% (k=2)	Boundary effect:
ConvF Y	4.9 ± 9.5% (k=2)	Alpha <b>0.55</b>
ConvF Z	4.9 ± 9.5% (k=2)	Depth <b>2.69</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>4.9</b> $\pm 9.5\%$ (k=2)	Boundary effect:
ConvF Y	<b>4.9</b> $\pm 9.5\%$ (k=2)	Alpha <b>0.99</b>
ConvF Z	<b>4.9</b> $\pm 9.5\%$ (k=2)	Depth <b>1.81</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>4.6</b> $\pm 9.5\%$ (k=2)	Boundary effect:
ConvF Y	<b>4.6</b> $\pm 9.5\%$ (k=2)	Alpha <b>1.60</b>
ConvF Z	<b>4.6</b> $\pm 9.5\%$ (k=2)	Depth <b>1.50</b>

# Deviation from Isotropy in HSL

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

