

835MHz Dipole Validation

Generic Twin Phantom; Flat Section;

Probe: ET3DV5 - SN1368 -- Probe Cal Date 2/99

Medium Parameters 835 MHz: $\sigma = 0.86$ mho/m $\epsilon_r = 42.5$ $\rho = 1.00$ g/cm³

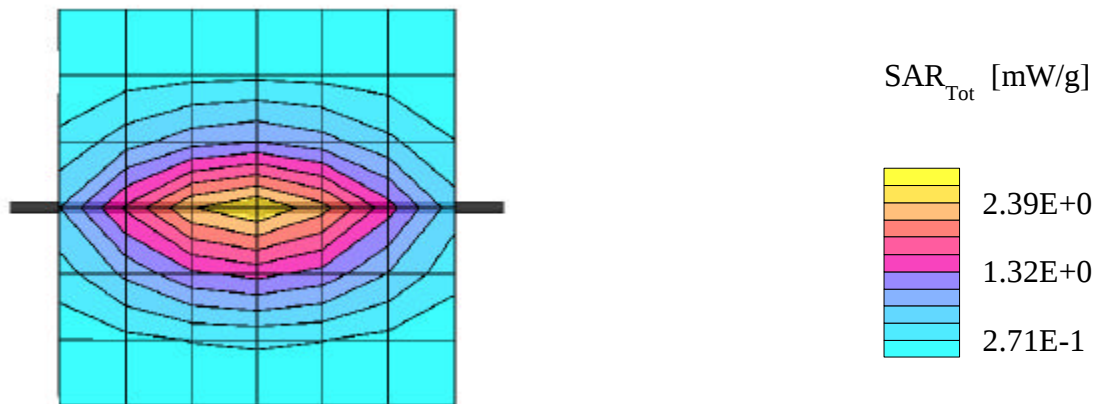
Antenna Position -- Out; Crest Factor 1.0

SAR (1g): 2.10 mW/g, SAR (10g): 1.45 mW/g

835MHz Dipole Validation (D835V2 S/N: 406)

Frequency: 835 MHz; Antenna Input Power: 250 [mW]

PCTEST Brain Tissue Simulating Liquid



1900MHz Dipole Validation

Generic Twin Phantom; Flat Section;

Probe: ET3DV5 - SN1368 -- Probe Cal Date 2/99

Medium Parameters Brain 1900 MHz: $\sigma = 1.82$ mho/m $\epsilon_r = 40.4$ $\rho = 1.00$ g/cm³

Antenna Position -- Out; Crest Factor 1.0

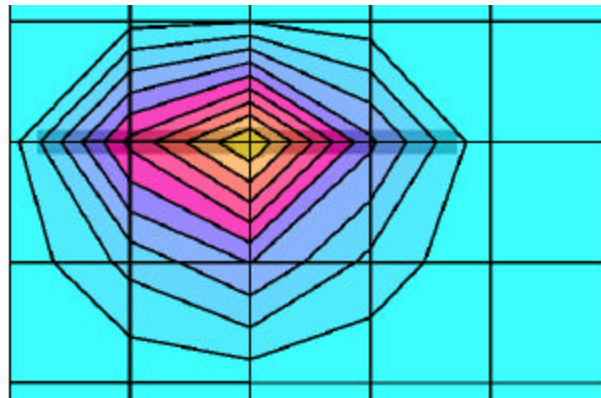
SAR (1g): 10.9 mW/g, SAR (10g): 5.45 mW/g

1900MHz Dipole Validation (D1900V2 S/N: 502)

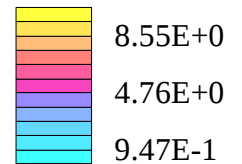
Frequency: 1900MHz; Antenna Input Power: 250 [mW]

PCTEST Brain Tissue Simulating Liquid

Validation Date: 01/05/00



SAR_{Tot} [mW/g]



Validation Dipole D835V2 SN:406, $d = 15\text{mm}$

Frequency: 835 MHz; Antenna Input Power: 250 [mW]

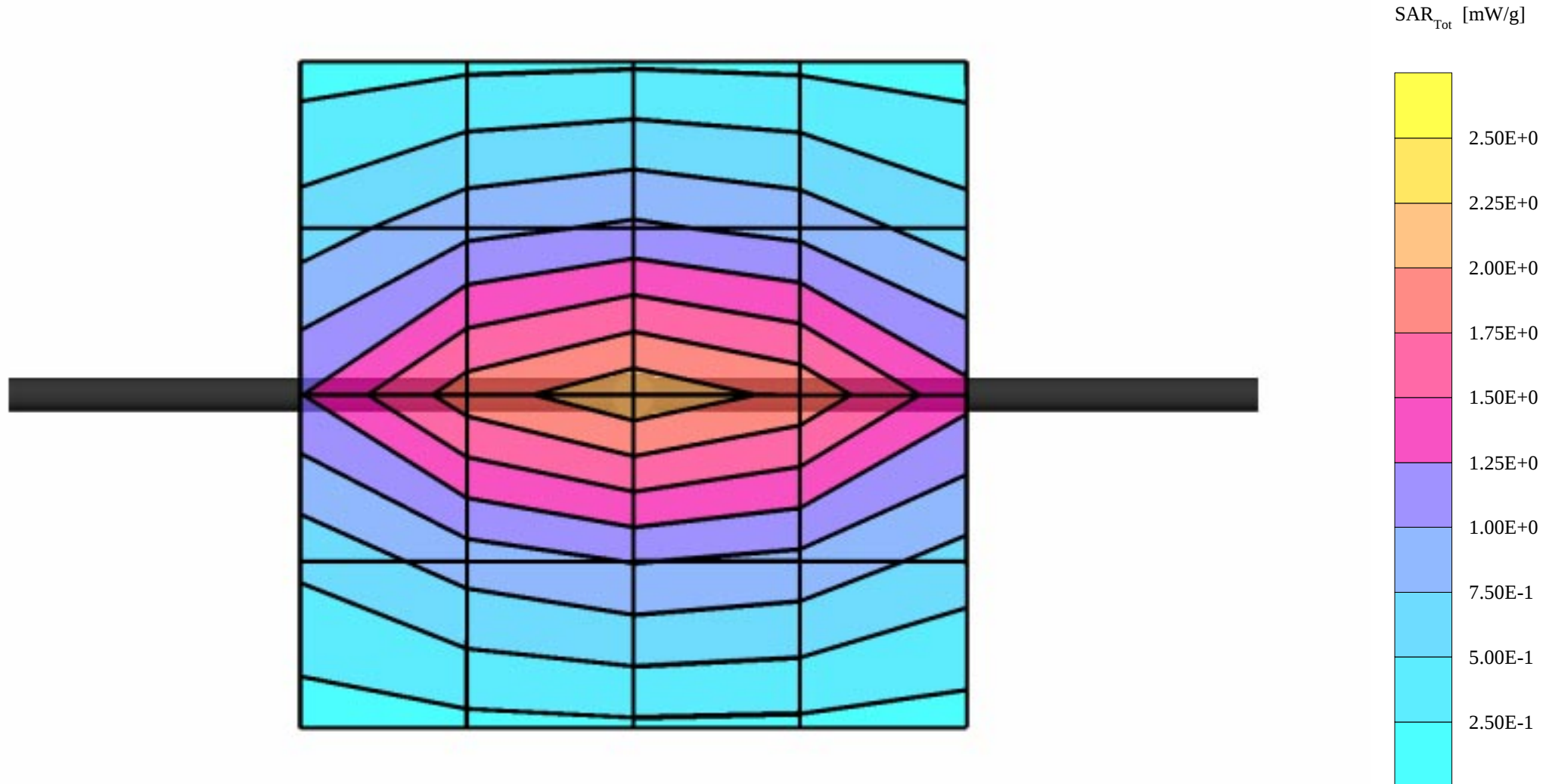
Generic Twin Phantom; Flat Section; Grid Spacing: $D_x = 20.0$, $D_y = 20.0$, $D_z = 10.0$

Probe: ET3DV5 - SN1342/DAE3; ConvF(5.75,5.75,5.75); Brain 835 MHz: $\sigma = 0.79$ mho/m $\epsilon_r = 41.9$ $\rho = 1.00$ g/cm³

Cubes (2): Peak: 3.17 mW/g ± 0.03 dB, SAR (1g): 2.11 mW/g ± 0.03 dB, SAR (10g): 1.41 mW/g ± 0.04 dB, (Worst-case extrapolation)

Penetration depth: 13.4 (12.3, 14.9) [mm]

Powerdrift: -0.01 dB



Validation Dipole D1900V2 SN:502, $d = 10\text{mm}$

Frequency: 1900 MHz; Antenna Input Power: 250 [mW]

Generic Twin Phantom; Flat Section; Grid Spacing: $D_x = 15.0$, $D_y = 15.0$, $D_z = 10.0$

Probe: ET3DV5 - SN1302/DAE3; ConvF(4.55,4.55,4.55); Brain 1900 MHz: $\sigma = 1.82\text{ mho/m}$ $\epsilon_r = 40.4$ $\rho = 1.00\text{ g/cm}^3$

Cubes (2): Peak: $21.2\text{ mW/g} \pm 0.01\text{ dB}$, SAR (1g): $10.7\text{ mW/g} \pm 0.01\text{ dB}$, SAR (10g): $5.26\text{ mW/g} \pm 0.01\text{ dB}$, (Worst-case extrapolation)

Penetration depth: 7.0 (6.8, 7.5) [mm]

