

Mode 802.11b Left Cheek High

Date/Time: 2007-2-7 14:48:17

Electronics: DAE3 Sn536

Medium: Head 2450 MHz

Medium parameters used : $\sigma = 1.83$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: Wlan 2450 Frequency: 2462 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1738 ConvF(4.67, 4.67, 4.67)

Cheek High/Area Scan (51x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.034 mW/g

Cheek High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.482 V/m; Power Drift = 0.189 dB

Peak SAR (extrapolated) = 0.119 W/kg

SAR(1 g) = 0.034 mW/g; SAR(10 g) = 0.00601 mW/g

Maximum value of SAR (measured) = 0.119 mW/g

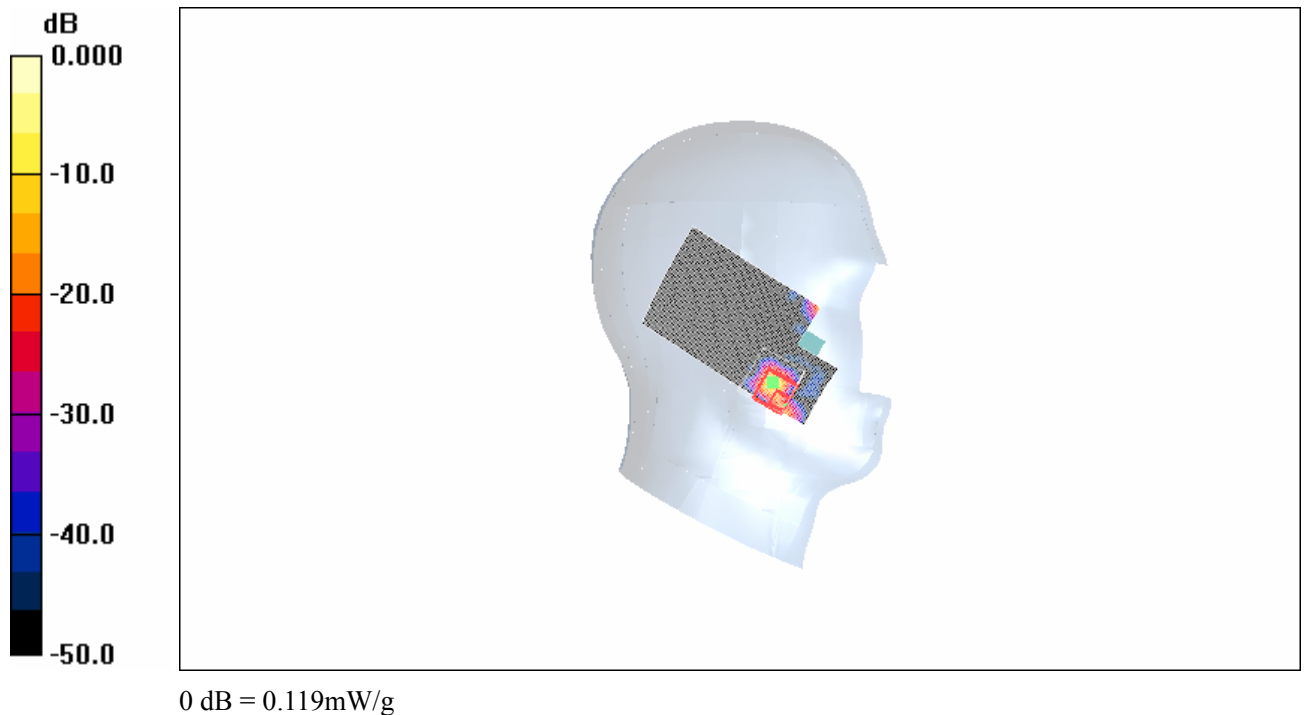


Fig. 73 Mode 802.11b 2450 MHz CH11

Mode 802.11b Left Cheek Middle

Date/Time: 2007-2-7 15:21:21

Electronics: DAE3 Sn536

Medium: Head 2450 MHz

Medium parameters used : $\sigma = 1.83$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: Wlan 2450 Frequency: 2437 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1738 ConvF(4.67, 4.67, 4.67)

Cheek Middle/Area Scan (51x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.039 mW/g

Cheek Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.353 V/m; Power Drift = 0.195dB

Peak SAR (extrapolated) = 0.074 W/kg

SAR(1 g) = 0.00912 mW/g; SAR(10 g) = 0.00136 mW/g

Maximum value of SAR (measured) = 0.074 mW/g

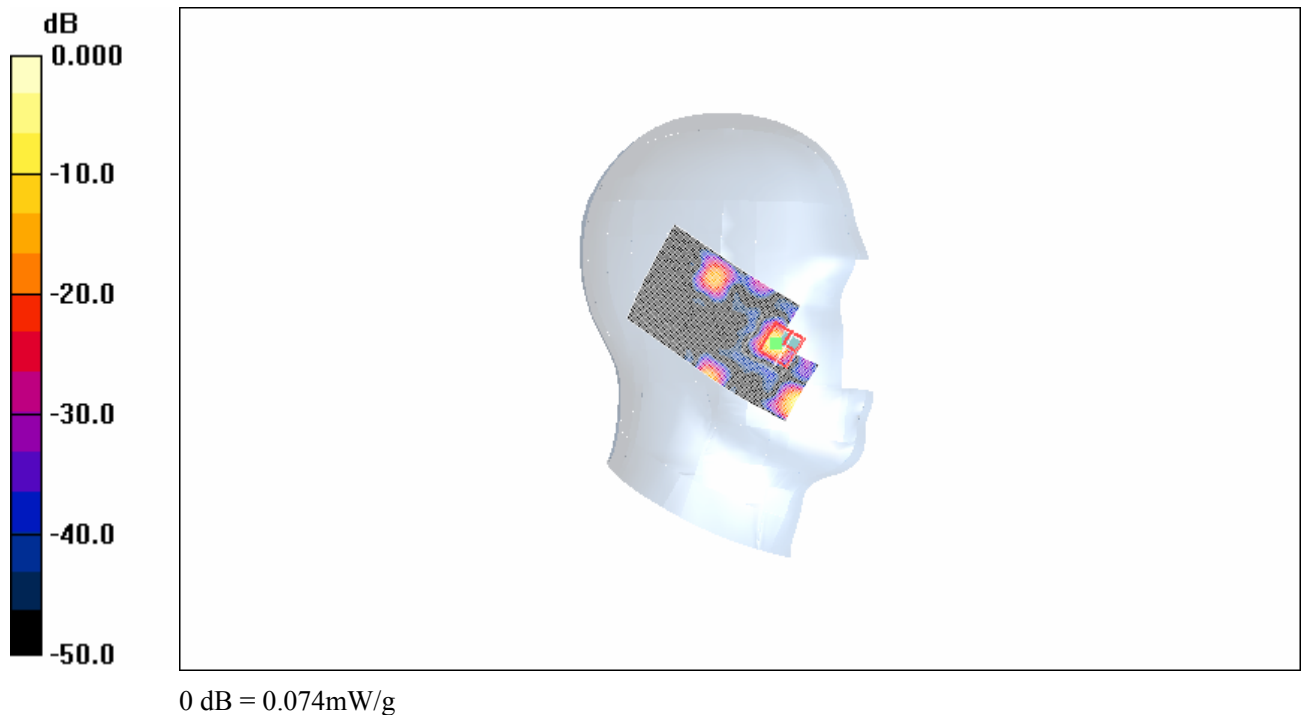


Fig. 74 Mode 802.11b 2450 MHz CH6

Mode 802.11b Left Cheek Low

Date/Time: 2007-2-7 15:06:07

Electronics: DAE3 Sn536

Medium: Head 2450 MHz

Medium parameters used : $\sigma = 1.83$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: Wlan 2450 Frequency: 2412 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1738 ConvF(4.67, 4.67, 4.67)

Cheek Low/Area Scan (51x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.382 mW/g

Cheek Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.867 V/m; Power Drift = 0.176 dB

Peak SAR (extrapolated) = 2.31 W/kg

SAR(1 g) = 0.122 mW/g; SAR(10 g) = 0.028 mW/g

Maximum value of SAR (measured) = 1.12 mW/g

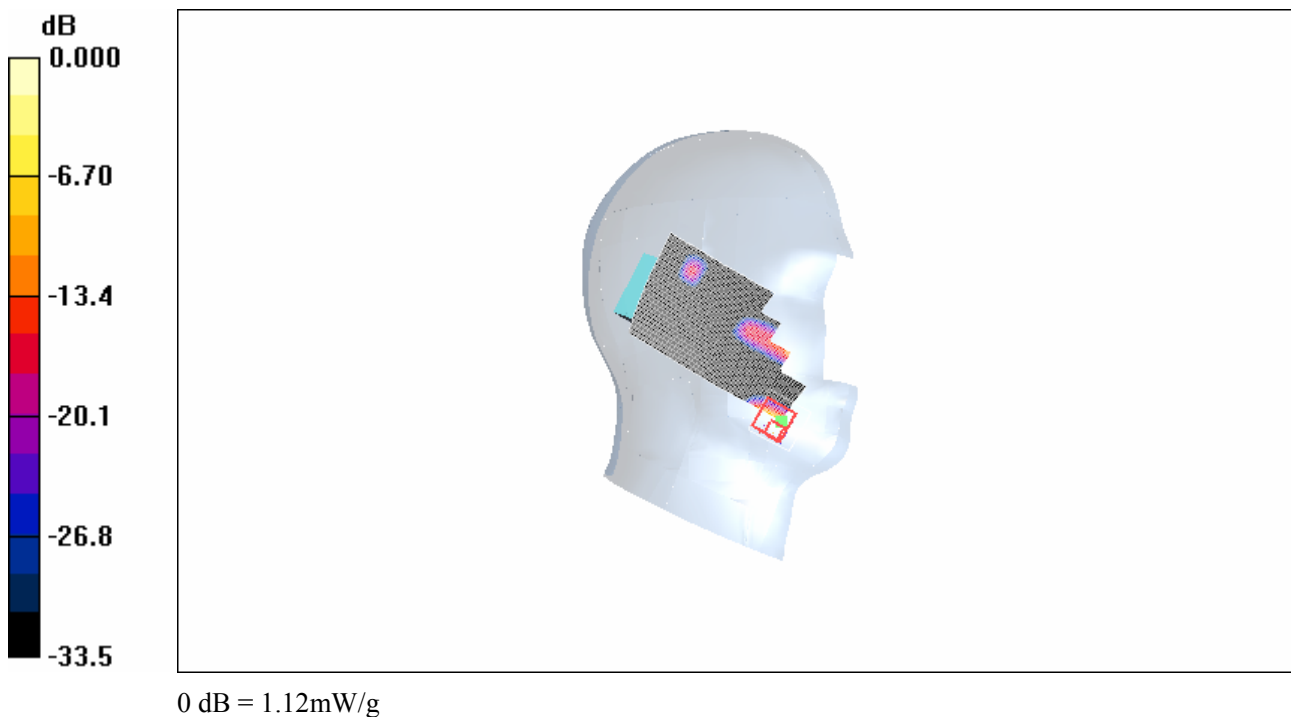


Fig. Mode 802.11b 75 2450 MHz CH1

Mode 802.11b Left Tilt High

Date/Time: 2007-2-7 16:01:47

Electronics: DAE3 Sn536

Medium: Head 2450 MHz

Medium parameters used : $\sigma = 1.83$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: Wlan 2450 Frequency: 2462 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1738 ConvF(4.67, 4.67, 4.67)

Tilt High/Area Scan (61x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.107 mW/g

Tilt High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.834 V/m; Power Drift = -0.109 dB

Peak SAR (extrapolated) = 0.035 W/kg

SAR(1 g) = 0.00187 mW/g; SAR(10 g) = 0.000371 mW/g

Maximum value of SAR (measured) = 0.035 mW/g

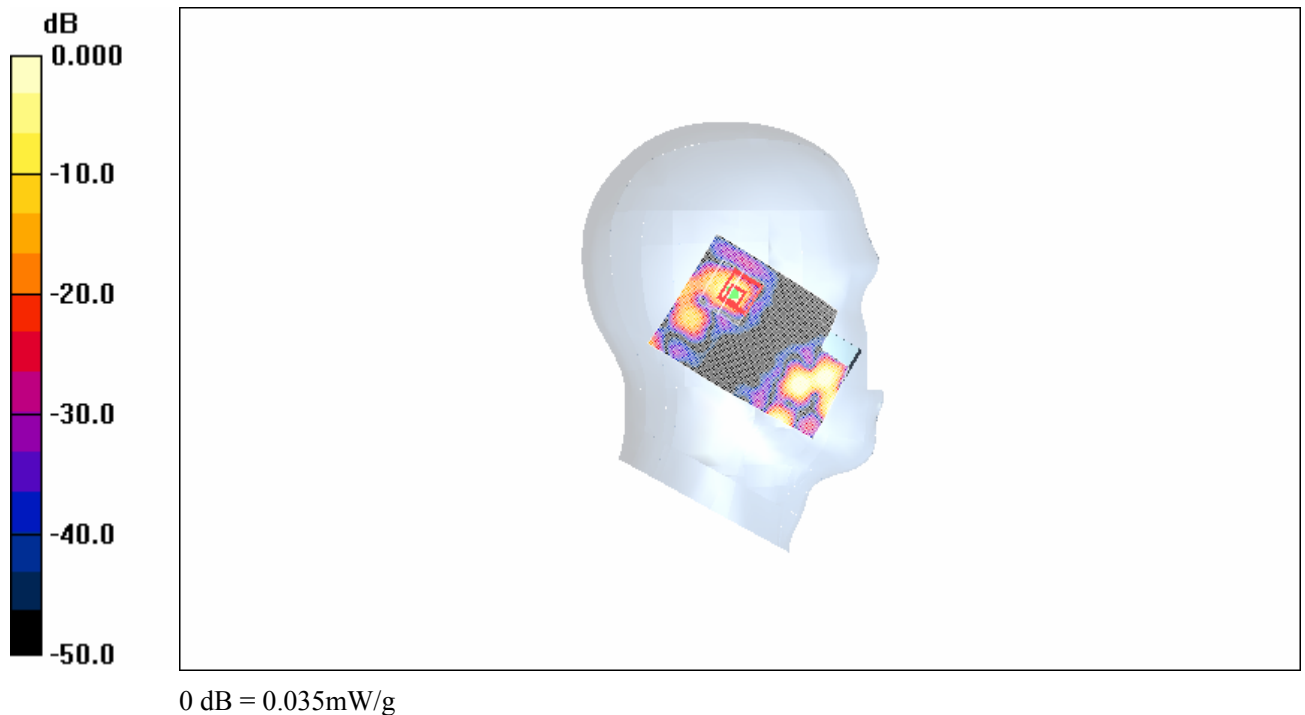


Fig. 76 Mode 802.11b 2450 MHz CH11

Mode 802.11b Left Tilt Middle

Date/Time: 2007-2-7 16:57:12

Electronics: DAE3 Sn536

Medium: Head 2450 MHz

Medium parameters used : $\sigma = 1.83$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: Wlan 2450 Frequency: 2437 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1738 ConvF(4.67, 4.67, 4.67)

Tilt Middle/Area Scan (61x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.240 mW/g

Tilt Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.23 V/m; Power Drift = -0.192 dB

Peak SAR (extrapolated) = 0.541 W/kg

SAR(1 g) = 0.076 mW/g; SAR(10 g) = 0.032 mW/g

Maximum value of SAR (measured) = 0.433 mW/g

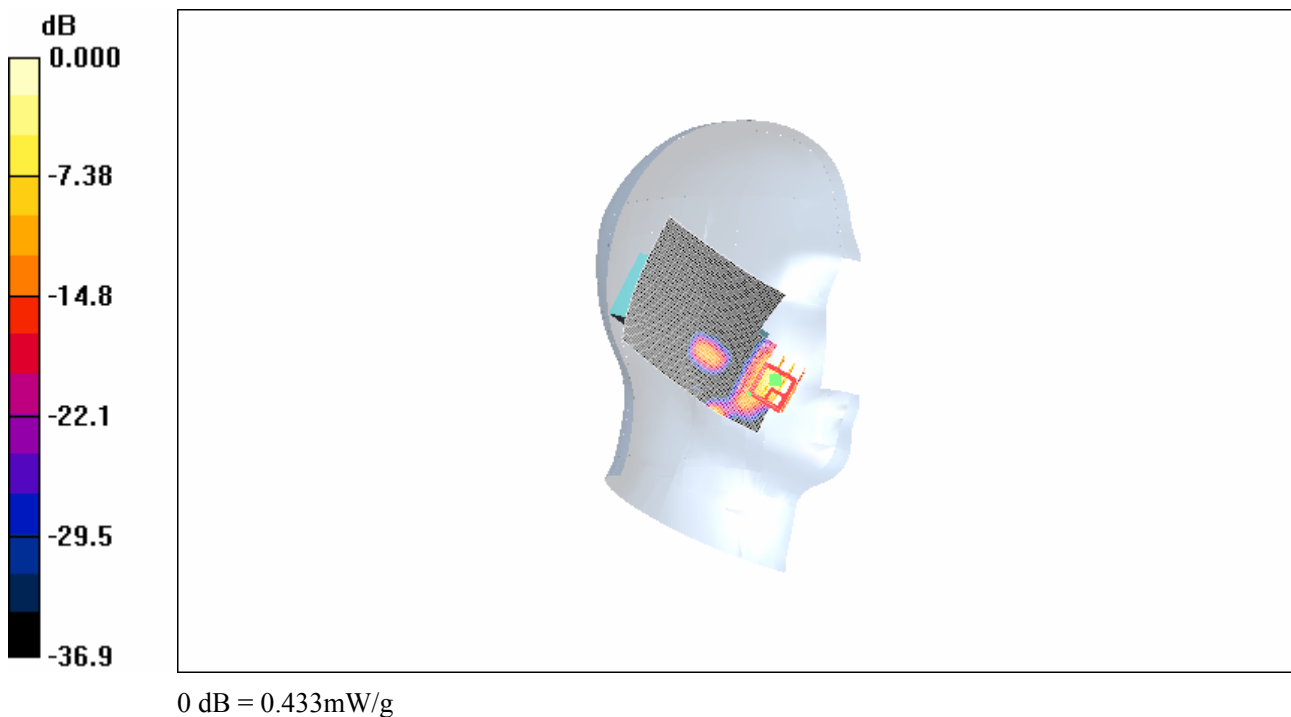


Fig. 77 Mode 802.11b 2450 MHz CH6

Mode 802.11b Left Tilt Low

Date/Time: 2007-2-7 16:21:38

Electronics: DAE3 Sn536

Medium: Head 2450 MHz

Medium parameters used : $\sigma = 1.83$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: Wlan 2450 Frequency: 2412 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1738 ConvF(4.67, 4.67, 4.67)

Tilt Low/Area Scan (51x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.162 mW/g

Tilt Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.536 V/m; Power Drift = 0.183 dB

Peak SAR (extrapolated) = 0.223 W/kg

SAR(1 g) = 0.067 mW/g; SAR(10 g) = 0.029 mW/g

Maximum value of SAR (measured) = 0.223 mW/g

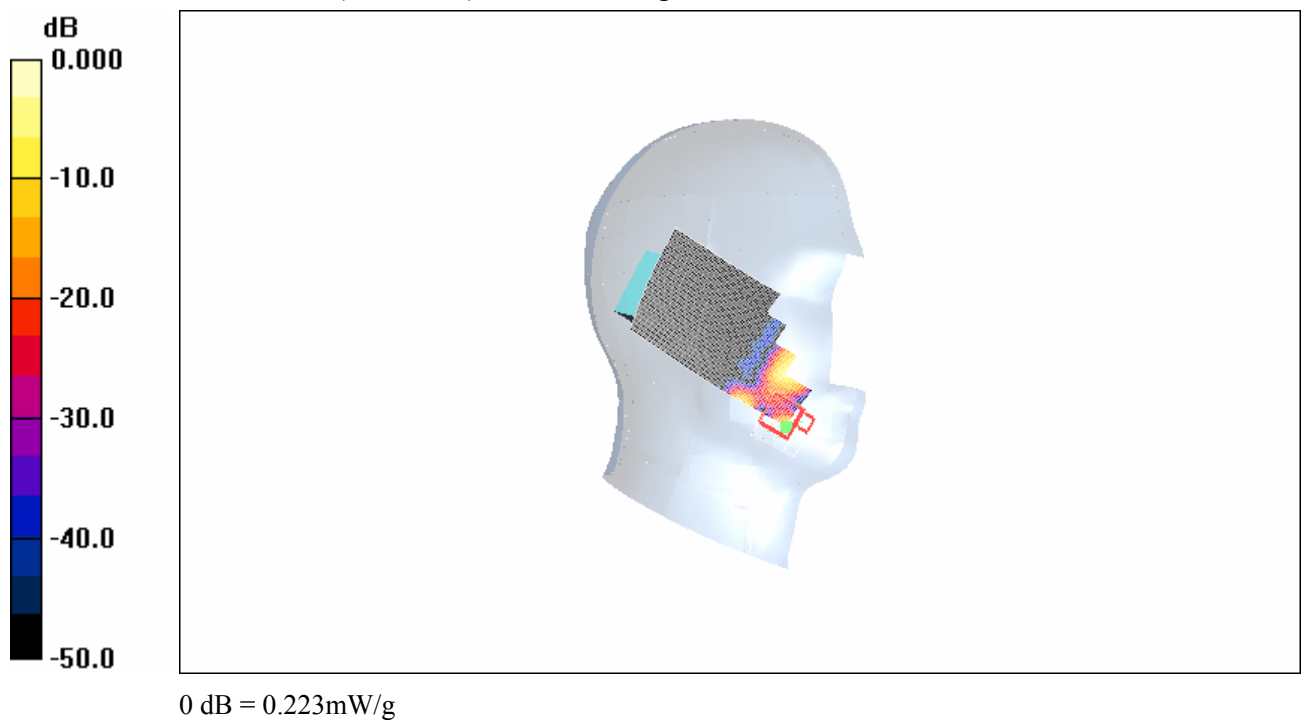


Fig. 78 Mode 802.11b 2450 MHz CH1

Mode 802.11b Right Cheek High

Date/Time: 2007-2-7 17:20:56

Electronics: DAE3 Sn536

Medium: Head 2450 MHz

Medium parameters used : $\sigma = 1.83$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: Wlan 2450 Frequency: 2462 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1738 ConvF(4.67, 4.67, 4.67)

Cheek High/Area Scan (51x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.043 mW/g

Cheek High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.24 V/m; Power Drift = 0.200 dB

Peak SAR (extrapolated) = 0.262 W/kg

SAR(1 g) = 0.029 mW/g; SAR(10 g) = 0.00695 mW/g

Maximum value of SAR (measured) = 0.114 mW/g

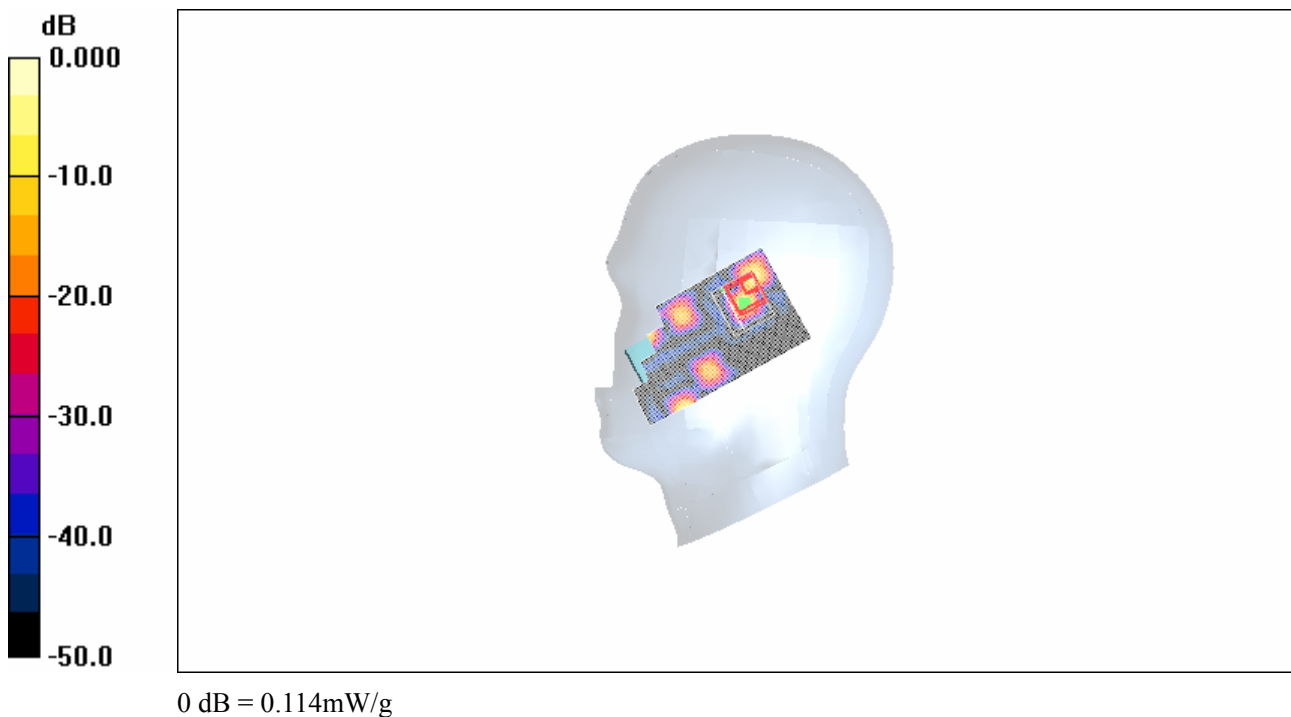


Fig. 79 Mode 802.11b 2450 MHz CH11

Mode 802.11b Right Cheek Middle

Date/Time: 2007-2-7 17:49:55

Electronics: DAE3 Sn536

Medium: Head 2450 MHz

Medium parameters used : $\sigma = 1.83$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: Wlan 2450 Frequency: 2437 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1738 ConvF(4.67, 4.67, 4.67)

Cheek Middle/Area Scan (51x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.034 mW/g

Cheek Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.10 V/m; Power Drift = -0.195 dB

Peak SAR (extrapolated) = 0.096 W/kg

SAR(1 g) = 0.010 mW/g; SAR(10 g) = 0.00212 mW/g

Maximum value of SAR (measured) = 0.096 mW/g

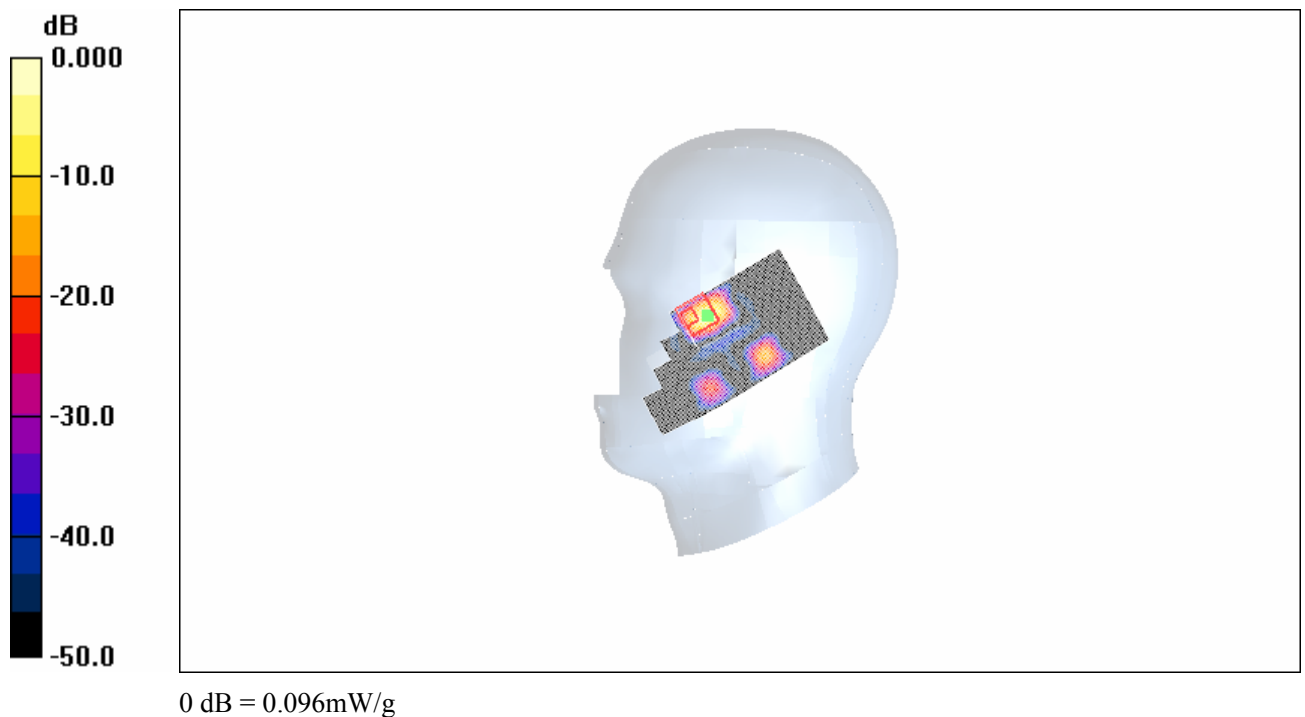


Fig. 80 Mode 802.11b 2450 MHz CH6

Mode 802.11b Right Cheek Low

Date/Time: 2007-2-7 17:07:34

Electronics: DAE3 Sn536

Medium: Head 2450 MHz

Medium parameters used : $\sigma = 1.83$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: Wlan 2450 Frequency: 2412 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1738 ConvF(4.67, 4.67, 4.67)

Cheek Low/Area Scan (51x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.004 mW/g

Cheek Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.13 V/m; Power Drift = -0.191 dB

Peak SAR (extrapolated) = 0.626 W/kg

SAR(1 g) = 0.020 mW/g; SAR(10 g) = 0.00402 mW/g

Maximum value of SAR (measured) = 0.626 mW/g

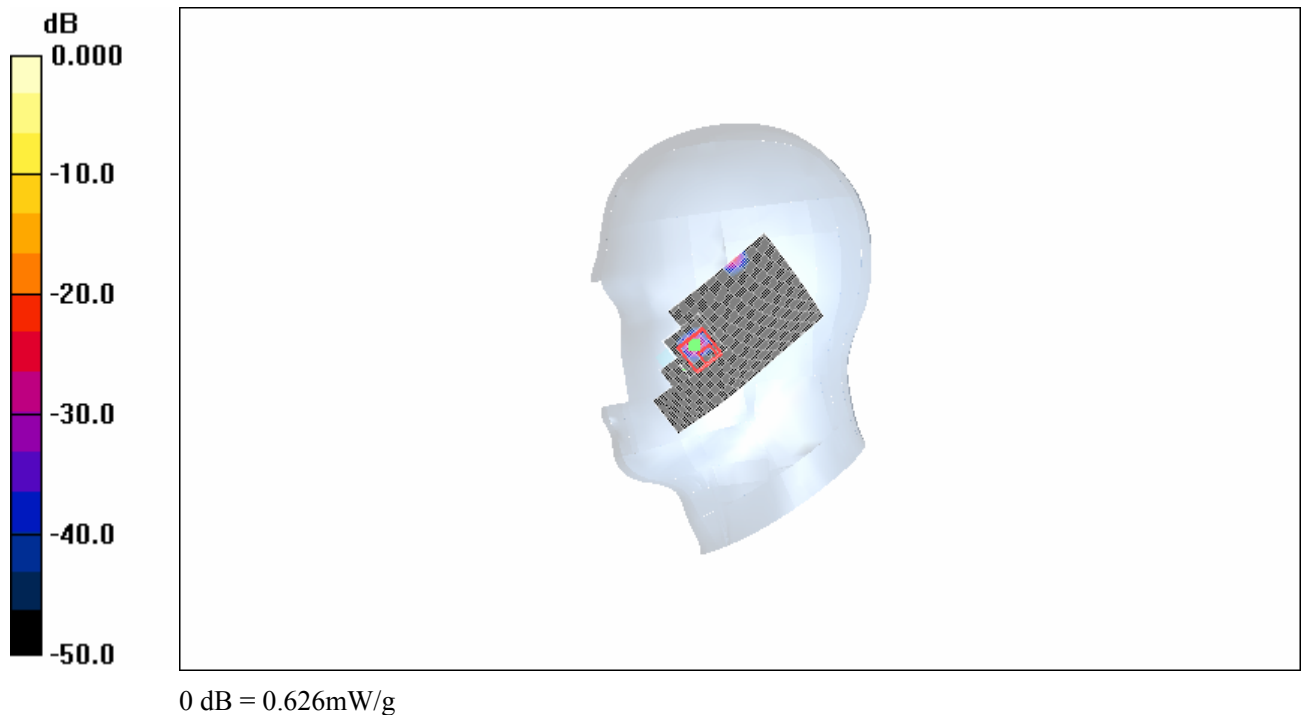


Fig. 81 Mode 802.11b 2450 MHz CH1

Mode 802.11b Right Tilt High

Date/Time: 2007-2-7 18:19:22

Electronics: DAE3 Sn536

Medium: Head 2450 MHz

Medium parameters used : $\sigma = 1.83$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: Wlan 2450 Frequency: 2462 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1738 ConvF(4.67, 4.67, 4.67)

Tilt High/Area Scan (81x131x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.047 mW/g

Tilt High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.795 V/m; Power Drift = 0.159 dB

Peak SAR (extrapolated) = 0.443 W/kg

SAR(1 g) = 0.042 mW/g; SAR(10 g) = 0.016 mW/g

Maximum value of SAR (measured) = 0.443 mW/g

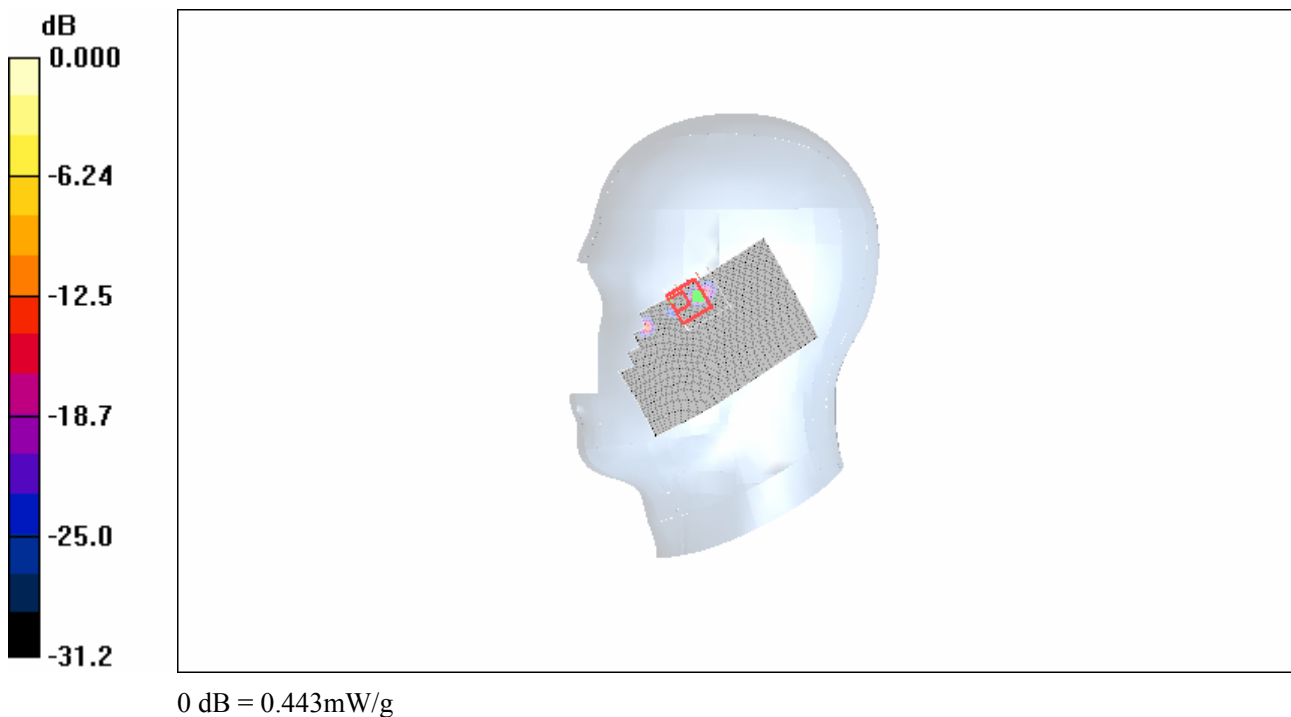


Fig. 82 Mode 802.11b 2450 MHz CH11

Mode 802.11b Right Tilt Middle

Date/Time: 2007-2-7 19:16:58

Electronics: DAE3 Sn536

Medium: Head 2450 MHz

Medium parameters used : $\sigma = 1.83$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: Wlan 2450 Frequency: 2437 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1738 ConvF(4.67, 4.67, 4.67)

Tilt Middle/Area Scan (61x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.019 mW/g

Tilt Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.567 V/m; Power Drift = 0.148 dB

Peak SAR (extrapolated) = 0.085 W/kg

SAR(1 g) = 0.012 mW/g; SAR(10 g) = 0.00308 mW/g

Maximum value of SAR (measured) = 0.066 mW/g

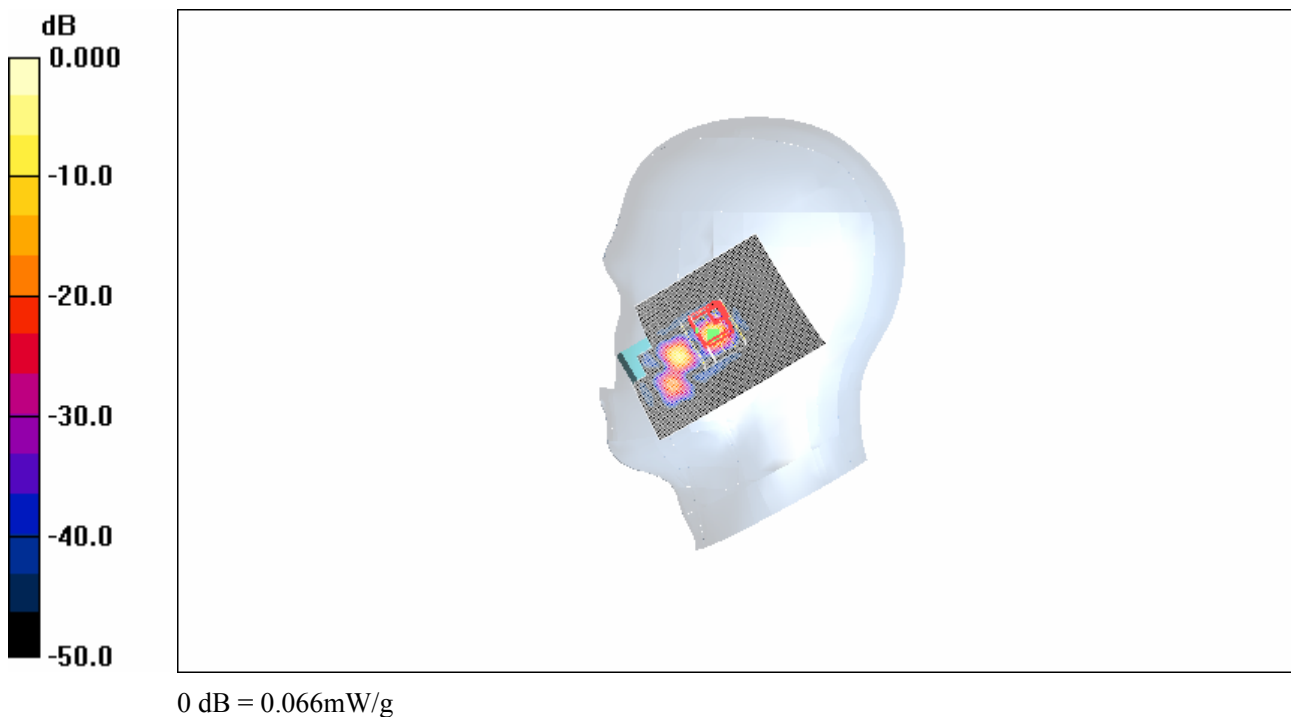


Fig. 83 Mode 802.11b 2450 MHz CH6

Mode 802.11b Right Tilt Low

Date/Time: 2007-2-7 18:32:53

Electronics: DAE3 Sn536

Medium: Head 2450 MHz

Medium parameters used : $\sigma = 1.83$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: Wlan 2450 Frequency: 2412 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1738 ConvF(4.67, 4.67, 4.67)

Tilt Low/Area Scan (61x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.004 mW/g

Tilt Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.12 V/m; Power Drift = 0.200 dB

Peak SAR (extrapolated) = 0.070 W/kg

SAR(1 g) = 0.00539 mW/g; SAR(10 g) = 0.00128 mW/g

Maximum value of SAR (measured) = 0.070 mW/g

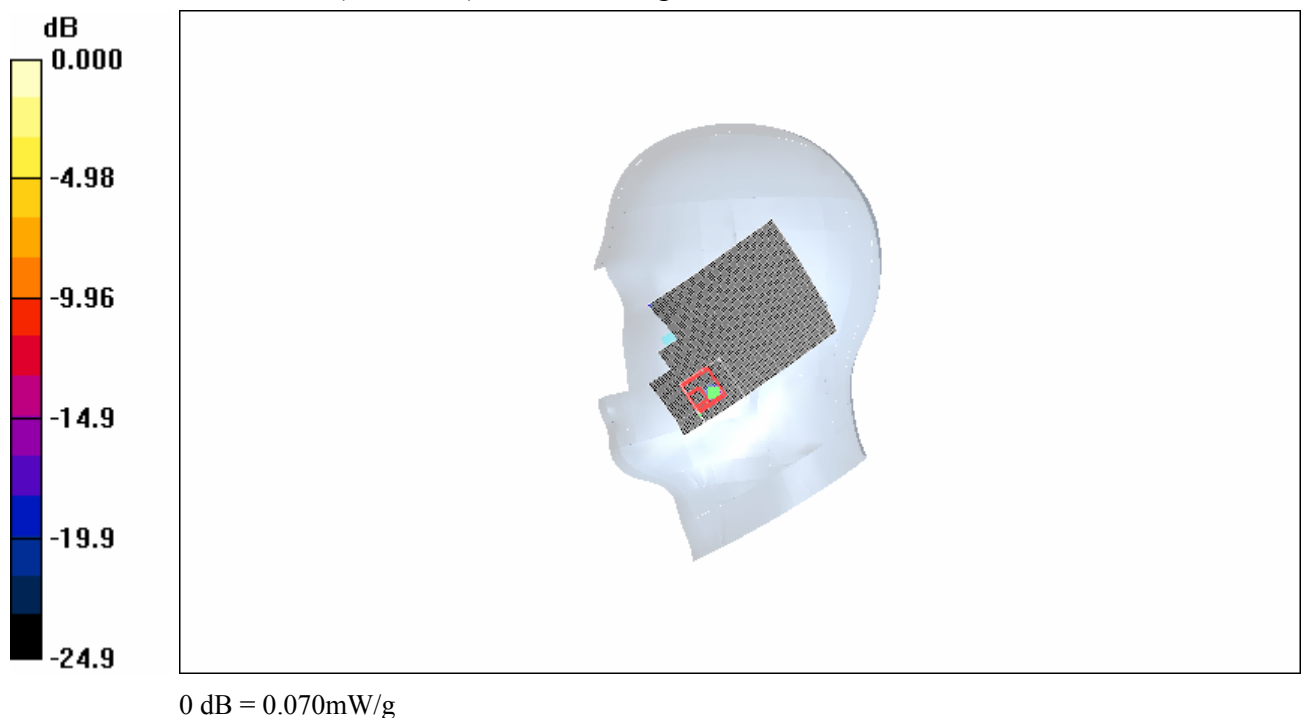


Fig. 84 Mode 802.11b 2450 MHz CH1

Mode 802.11g Left Cheek High

Date/Time: 2007-2-7 20:06:50

Electronics: DAE3 Sn536

Medium: Head 2450 MHz

Medium parameters used : $\sigma = 1.83$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: Wlan 2450 Frequency: 2462 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1738 ConvF(4.67, 4.67, 4.67)

Cheek High/Area Scan (51x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.177 mW/g

Cheek High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.63 V/m; Power Drift = -0.182 dB

Peak SAR (extrapolated) = 1.32 W/kg

SAR(1 g) = 0.060 mW/g; SAR(10 g) = 0.019 mW/g

Maximum value of SAR (measured) = 1.13 mW/g

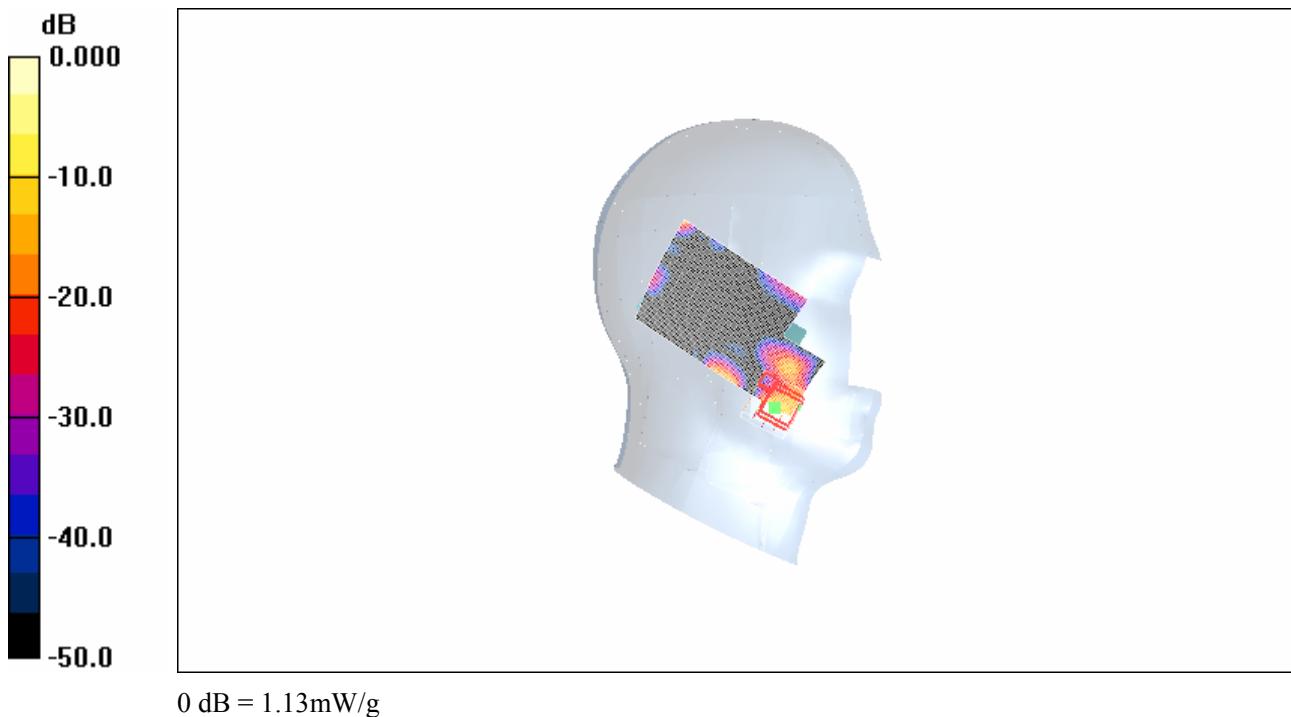


Fig. 85 Mode 802.11g 2450 MHz CH11

Mode 802.11g Left Cheek Middle

Date/Time: 2007-2-7 19:35:30

Electronics: DAE3 Sn536

Medium: Head 2450 MHz

Medium parameters used : $\sigma = 1.83$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: Wlan 2450 Frequency: 2437 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1738 ConvF(4.67, 4.67, 4.67)

Cheek Middle/Area Scan (51x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.723 mW/g

Cheek Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.70 V/m; Power Drift = 0.177 dB

Peak SAR (extrapolated) = 1.56 W/kg

SAR(1 g) = 0.172 mW/g; SAR(10 g) = 0.061 mW/g

Maximum value of SAR (measured) = 1.56 mW/g

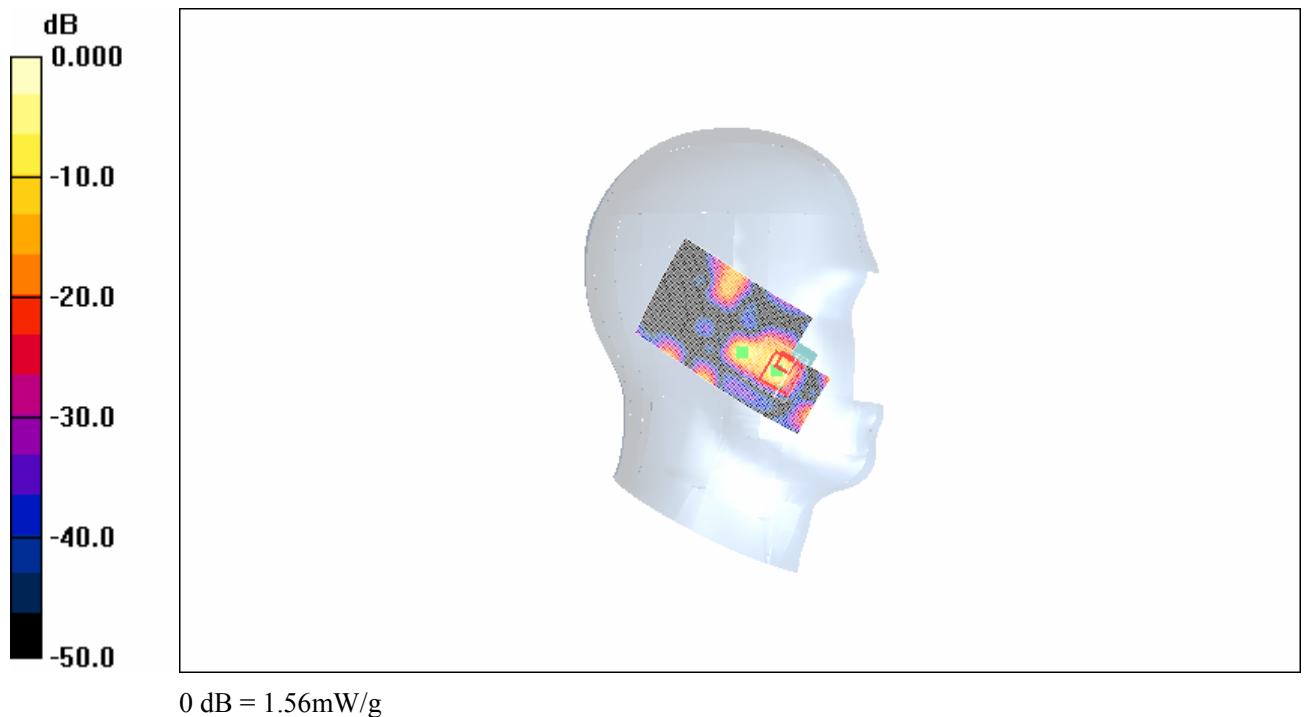


Fig. 86 Mode 802.11g 2450 MHz CH6

Mode 802.11g Left Cheek Low

Date/Time: 2007-2-7 19:48:59

Electronics: DAE3 Sn536

Medium: Head 2450 MHz

Medium parameters used : $\sigma = 1.83$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: Wlan 2450 Frequency: 2412 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1738 ConvF(4.67, 4.67, 4.67)

Cheek Low/Area Scan (51x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.153 mW/g

Cheek Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.05 V/m; Power Drift = 0.145 dB

Peak SAR (extrapolated) = 0.235 W/kg

SAR(1 g) = 0.081 mW/g; SAR(10 g) = 0.033 mW/g

Maximum value of SAR (measured) = 0.175 mW/g

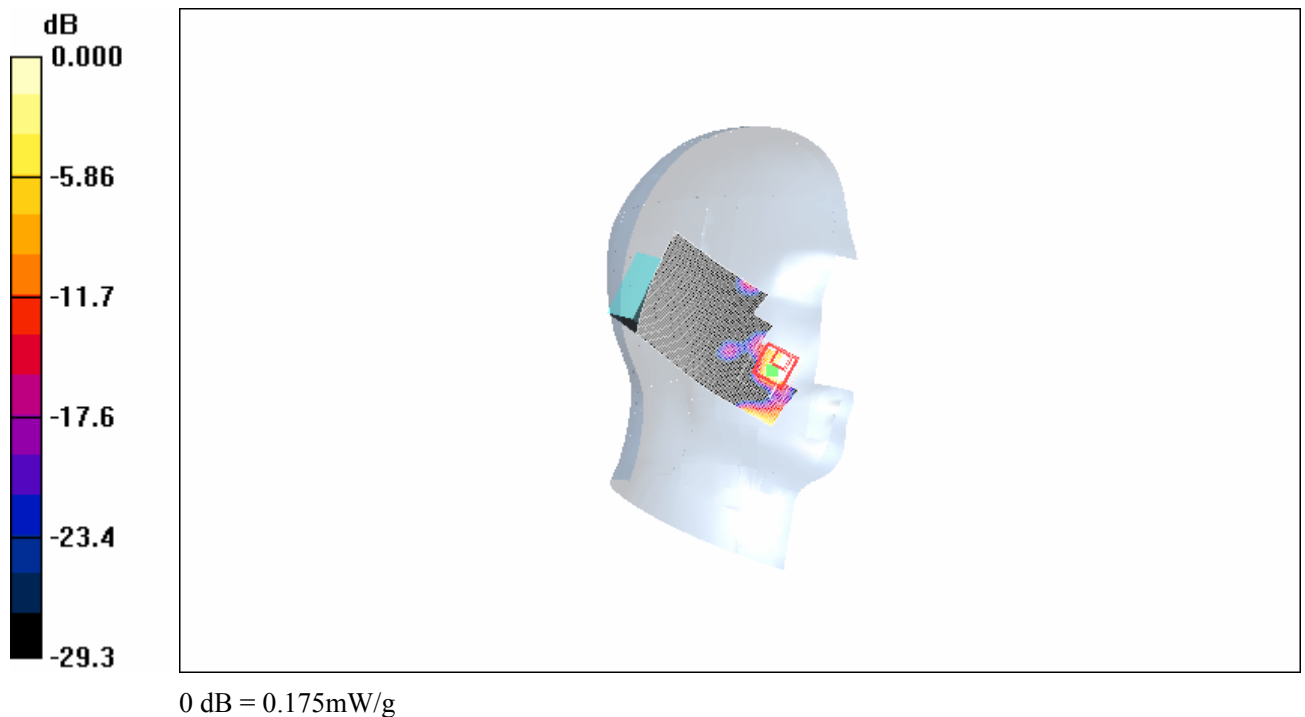


Fig. 87 Mode 802.11g 2450 MHz CH1

Mode 802.11g Left Tilt High

Date/Time: 2007-2-7 20:20:05

Electronics: DAE3 Sn536

Medium: Head 2450 MHz

Medium parameters used : $\sigma = 1.83$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: Wlan 2450 Frequency: 2462 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1738 ConvF(4.67, 4.67, 4.67)

Tilt High/Area Scan (61x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.284 mW/g

Tilt High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.30 V/m; Power Drift = -0.091 dB

Peak SAR (extrapolated) = 1.44 W/kg

SAR(1 g) = 0.069 mW/g; SAR(10 g) = 0.013 mW/g

Maximum value of SAR (measured) = 1.44 mW/g

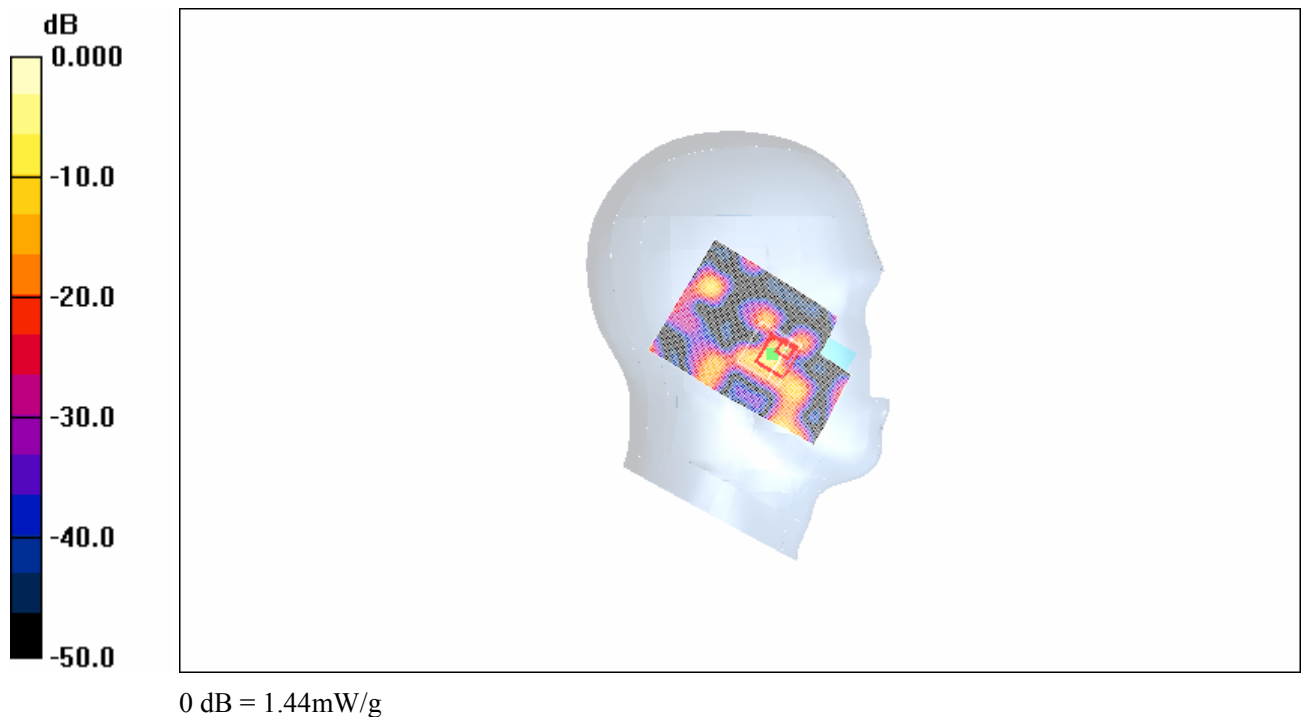


Fig. 88 Mode 802.11g 2450 MHz CH11

Mode 802.11g Left Tilt Middle

Date/Time: 2007-2-7 20:48:40

Electronics: DAE3 Sn536

Medium: Head 2450 MHz

Medium parameters used : $\sigma = 1.83$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: Wlan 2450 Frequency: 2437 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1738 ConvF(4.67, 4.67, 4.67)

Tilt Middle/Area Scan (61x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.40 mW/g

Tilt Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.4 V/m; Power Drift = 0.200 dB

Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.131 mW/g; SAR(10 g) = 0.024 mW/g

Maximum value of SAR (measured) = 1.27 mW/g

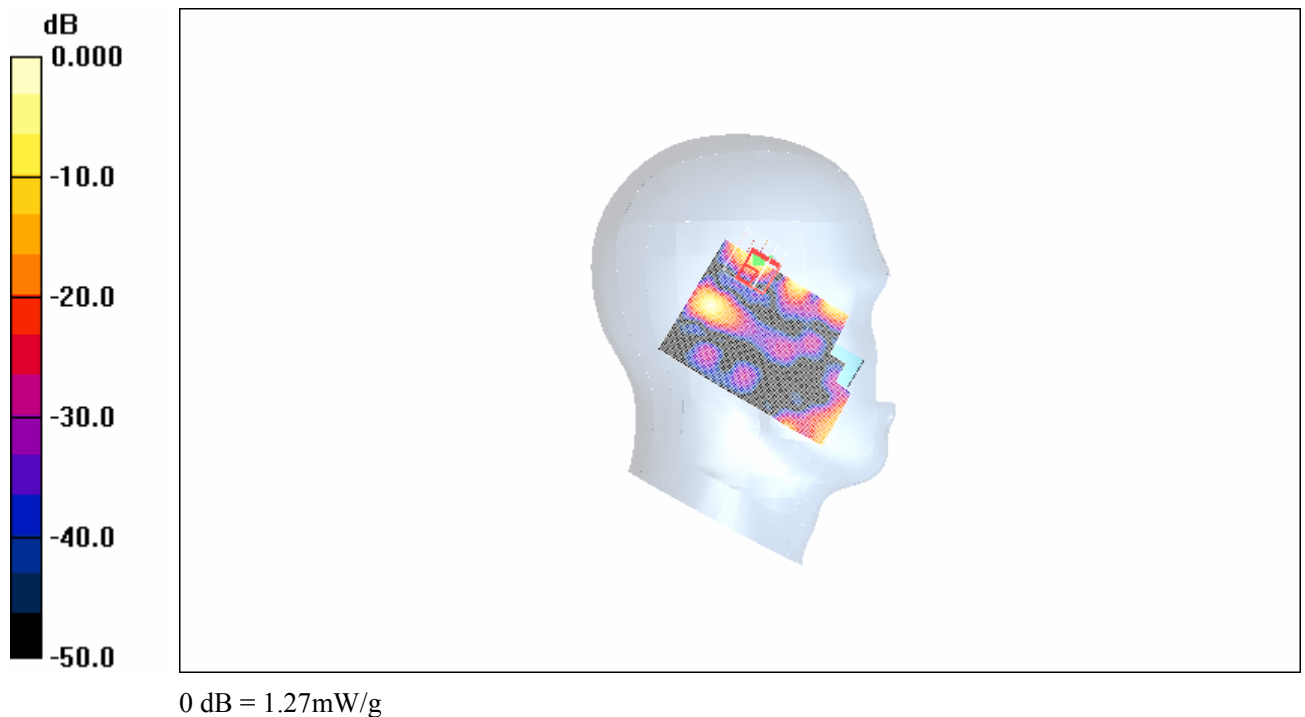


Fig. 89 Mode 802.11g 2450 MHz CH6

Mode 802.11g Left Tilt Low

Date/Time: 2007-2-7 20:53:20

Electronics: DAE3 Sn536

Medium: Head 2450 MHz

Medium parameters used : $\sigma = 1.83$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: Wlan 2450 Frequency: 2412 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1738 ConvF(4.67, 4.67, 4.67)

Tilt Low/Area Scan (51x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.078 mW/g

Tilt Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.772 V/m; Power Drift = -0.180 dB

Peak SAR (extrapolated) = 0.302 W/kg

SAR(1 g) = 0.073 mW/g; SAR(10 g) = 0.023 mW/g

Maximum value of SAR (measured) = 0.302 mW/g

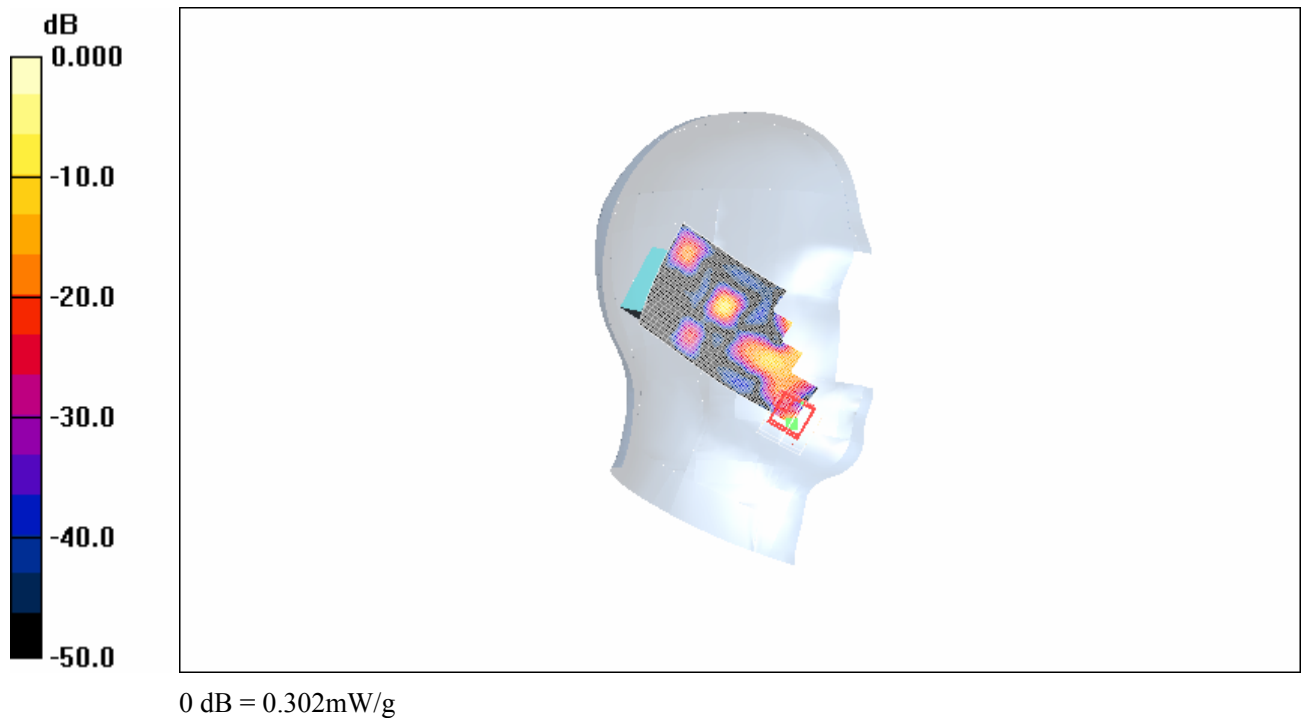


Fig. 90 Mode 802.11g 2450 MHz CH1

Mode 802.11g Right Cheek High

Date/Time: 2007-2-7 21:35:48

Electronics: DAE3 Sn536

Medium: Head 2450 MHz

Medium parameters used : $\sigma = 1.83$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: Wlan 2450 Frequency: 2462 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1738 ConvF(4.67, 4.67, 4.67)

Cheek High/Area Scan (51x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.039 mW/g

Cheek High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.35 V/m; Power Drift = -0.154 dB

Peak SAR (extrapolated) = 0.102 W/kg

SAR(1 g) = 0.034 mW/g; SAR(10 g) = 0.015 mW/g

Maximum value of SAR (measured) = 0.102 mW/g

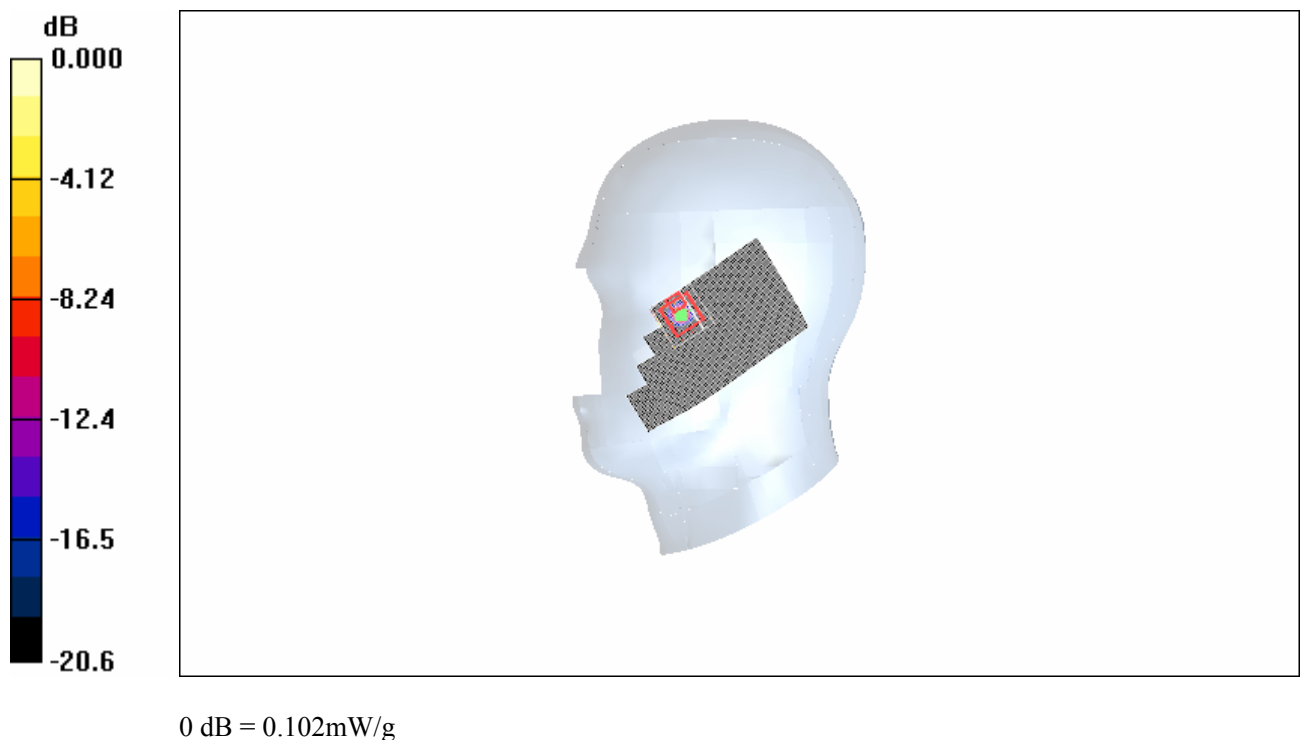


Fig. 91 Mode 802.11g 2450 MHz CH11

Mode 802.11g Right Cheek Middle

Date/Time: 2007-2-7 21:14:06

Electronics: DAE3 Sn536

Medium: Head 2450 MHz

Medium parameters used : $\sigma = 1.83$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: Wlan 2450 Frequency: 2437 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1738 ConvF(4.67, 4.67, 4.67)

Cheek Middle/Area Scan (51x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.346 mW/g

Cheek Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.925 V/m; Power Drift = 0.108 dB

Peak SAR (extrapolated) = 0.283 W/kg

SAR(1 g) = 0.020 mW/g; SAR(10 g) = 0.00618 mW/g

Maximum value of SAR (measured) = 0.283 mW/g

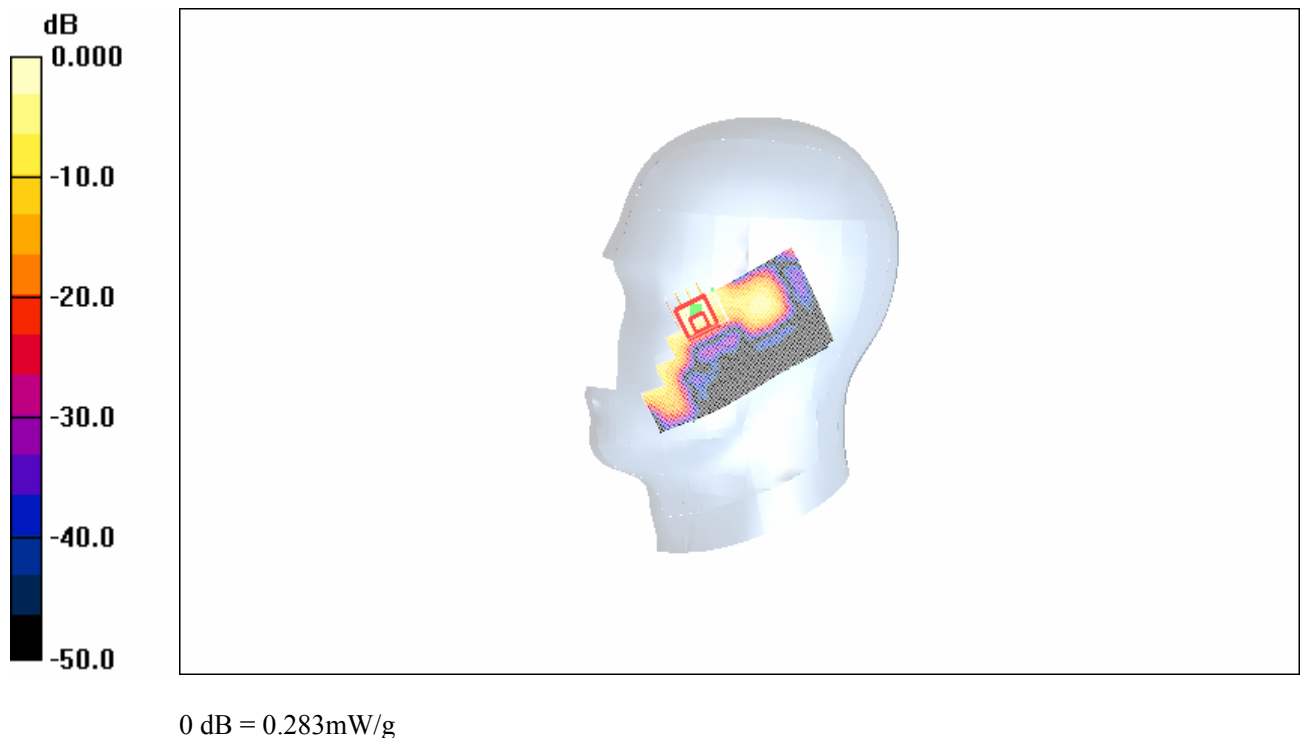


Fig. 92 Mode 802.11g 2450 MHz CH6

Mode 802.11g Right Cheek Low

Date/Time: 2007-2-7 22:10:16

Electronics: DAE3 Sn536

Medium: Head 2450 MHz

Medium parameters used : $\sigma = 1.83$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: Wlan 2450 Frequency: 2412 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1738 ConvF(4.67, 4.67, 4.67)

Cheek Low/Area Scan (51x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.008 mW/g

Cheek Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.660 V/m; Power Drift = 0.193 dB

Peak SAR (extrapolated) = 0.395 W/kg

SAR(1 g) = 0.00587 mW/g; SAR(10 g) = 0.00125 mW/g

Maximum value of SAR (measured) = 0.395 mW/g

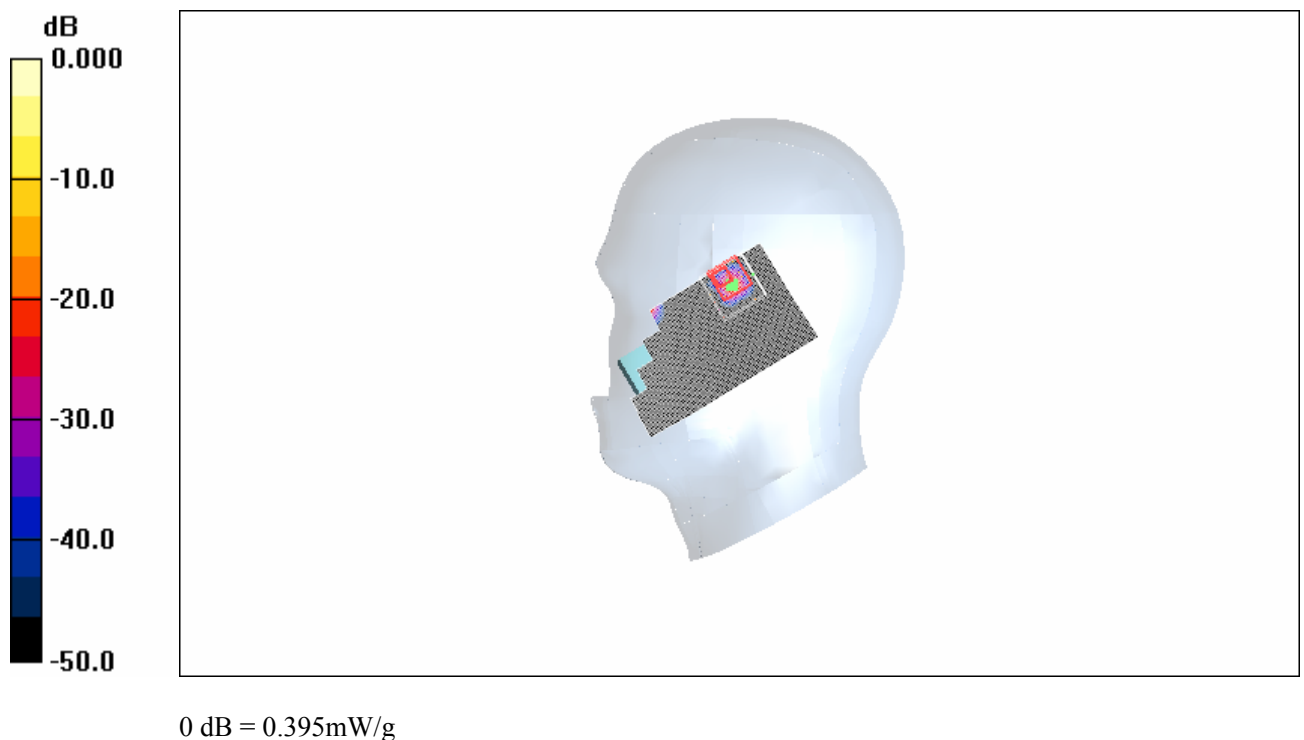


Fig. 93 Mode 802.11g 2450 MHz CH1

Mode 802.11g Right Tilt High

Date/Time: 2007-2-7 22:48:55

Electronics: DAE3 Sn536

Medium: Head 2450 MHz

Medium parameters used : $\sigma = 1.83$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: Wlan 2450 Frequency: 2462 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1738 ConvF(4.67, 4.67, 4.67)

Tilt High/Area Scan (81x131x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.395 mW/g

Tilt High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.30 V/m; Power Drift = -0.097 dB

Peak SAR (extrapolated) = 2.41 W/kg

SAR(1 g) = 0.147 mW/g; SAR(10 g) = 0.032 mW/g

Maximum value of SAR (measured) = 2.41 mW/g

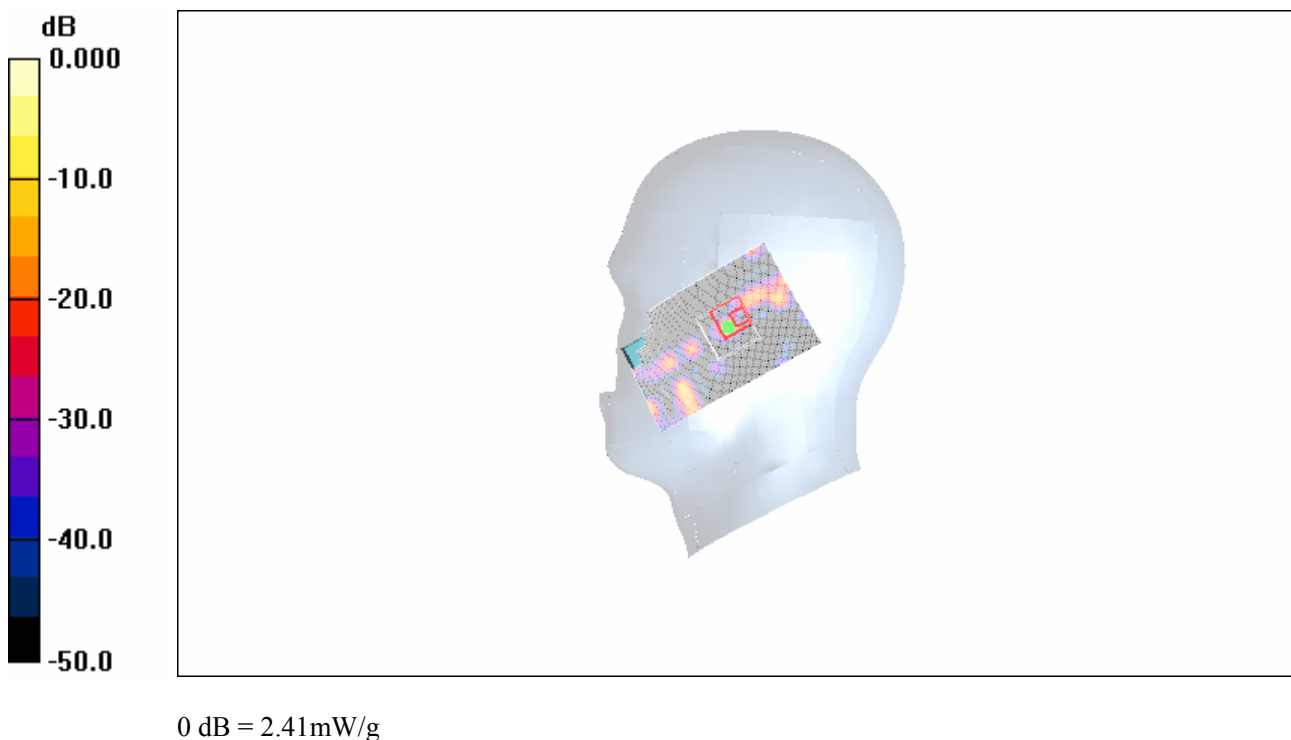


Fig. 94 Mode 802.11g 2450 MHz CH11

Mode 802.11g Right Tilt Middle

Date/Time: 2007-2-7 22:28:04

Electronics: DAE3 Sn536

Medium: Head 2450 MHz

Medium parameters used : $\sigma = 1.83$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: Wlan 2450 Frequency: 2437 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1738 ConvF(4.67, 4.67, 4.67)

Tilt Middle/Area Scan (61x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.008 mW/g

Tilt Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.733 V/m; Power Drift = 0.146 dB

Peak SAR (extrapolated) = 0.051 W/kg

SAR(1 g) = 0.00159 mW/g; SAR(10 g) = 0.000375 mW/g

Maximum value of SAR (measured) = 0.051 mW/g

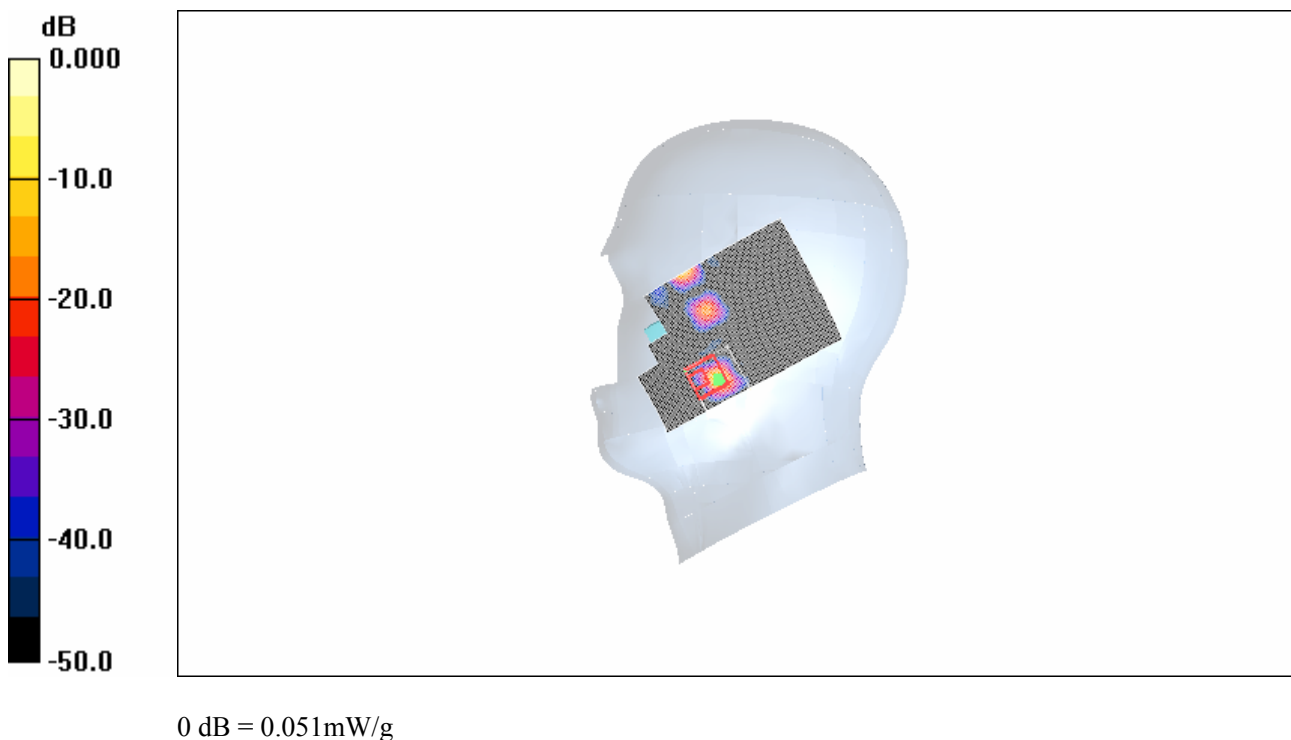


Fig. 95 Mode 802.11g 2450 MHz CH6

Mode 802.11g Right Tilt Low

Date/Time: 2007-2-7 23:02:52

Electronics: DAE3 Sn536

Medium: Head 2450 MHz

Medium parameters used : $\sigma = 1.83$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: Wlan 2450 Frequency: 2412 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1738 ConvF(4.67, 4.67, 4.67)

Tilt Low/Area Scan (61x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.037 mW/g

Tilt Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.2 V/m; Power Drift = -0.127dB

Peak SAR (extrapolated) = 0.061 W/kg

SAR(1 g) = 0.00414 mW/g; SAR(10 g) = 0.00111 mW/g

Maximum value of SAR (measured) = 0.061 mW/g

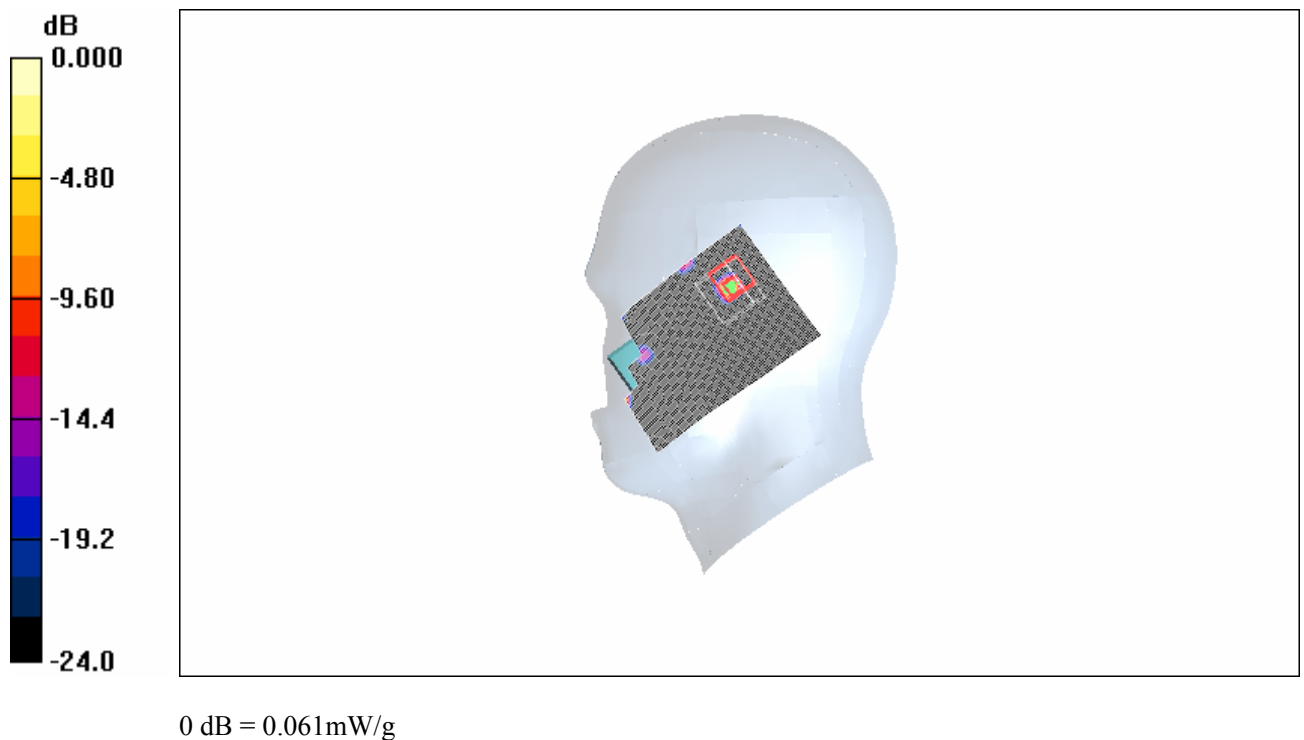


Fig. 96 Mode 802.11g 2450 MHz CH1

Mode 802.11b Toward Ground High

Date/Time: 2007-2-7 10:01:37

Electronics: DAE3 Sn536

Medium: 2450 Body

Medium parameters used: $\sigma = 1.89$ mho/m; $\epsilon_r = 51.23$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: Wlan 2450 Frequency: 2462 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.35, 4.35, 4.35)

Toward Ground High/Area Scan (61x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.012 mW/g

Toward Ground High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.864 V/m; Power Drift = -0.200 dB

Peak SAR (extrapolated) = 0.035 W/kg

SAR(1 g) = 0.00121 mW/g; SAR(10 g) = 0.000225 mW/g

Maximum value of SAR (measured) = 0.036 mW/g

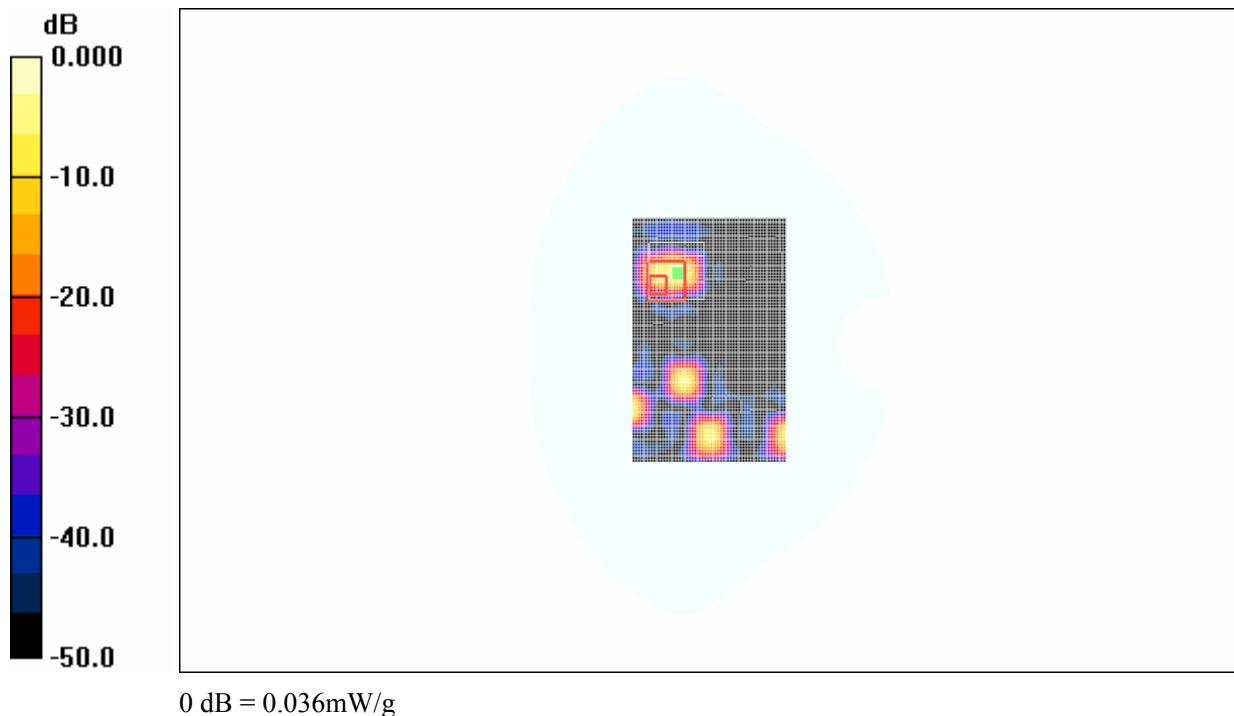


Fig. 97 Mode 802.11b Body Towards Ground 2450MHz CH11

Mode 802.11b Toward Ground Middle

Date/Time: 2007-2-7 10:25:12

Electronics: DAE3 Sn536

Medium: 2450 Body

Medium parameters used: $\sigma = 1.89$ mho/m; $\epsilon_r = 51.23$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: Wlan 2450 Frequency: 2437 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.35, 4.35, 4.35)

Toward Ground Middle/Area Scan (61x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.060 mW/g

Toward Ground Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.91 V/m; Power Drift = -0.192 dB

Peak SAR (extrapolated) = 0.142 W/kg

SAR(1 g) = 0.037 mW/g; SAR(10 g) = 0.00972 mW/g

Maximum value of SAR (measured) = 0.055 mW/g

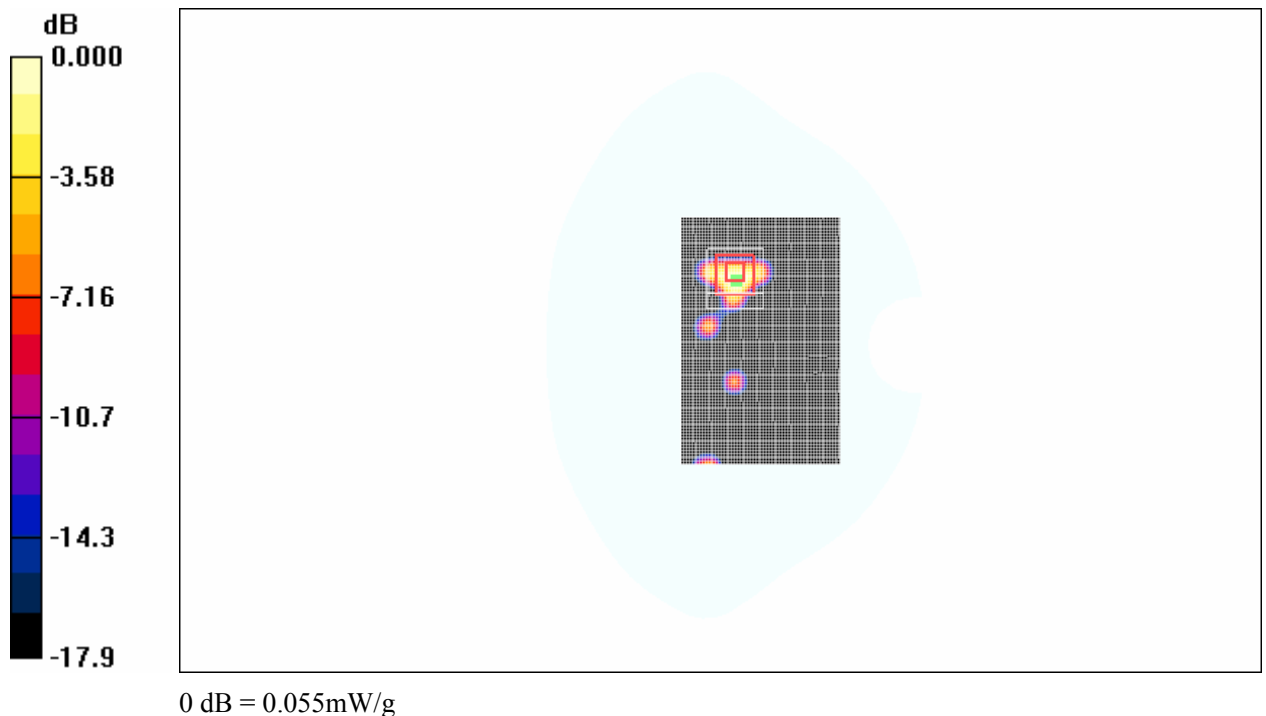


Fig. 98 Mode 802.11b Body Towards Ground 2450MHz CH6

Mode 802.11b Toward Ground Low

Date/Time: 2007-2-7 10:49:09

Electronics: DAE3 Sn536

Medium: 2450 Body

Medium parameters used: $\sigma = 1.89$ mho/m; $\epsilon_r = 51.23$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: Wlan 2450 Frequency: 2412 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.35, 4.35, 4.35)

Toward Ground Low/Area Scan (61x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.067 mW/g

Toward Ground Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.41 V/m; Power Drift = 0.197dB

Peak SAR (extrapolated) = 0.052 W/kg

SAR(1 g) = 0.000584 mW/g; SAR(10 g) = 9.2e-005 mW/g

Maximum value of SAR (measured) = 0.052 mW/g

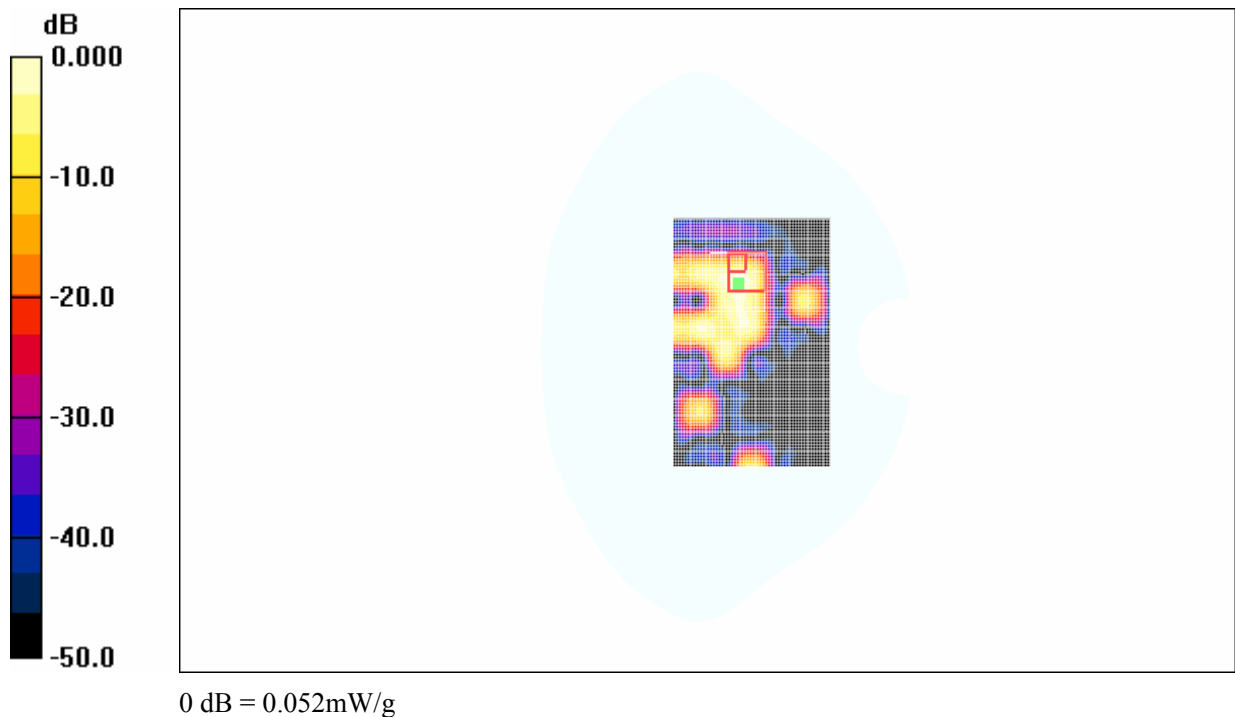


Fig. 99 Mode 802.11b Body Towards Ground 2450MHz CH1

Mode 802.11b Toward Phantom High

Date/Time: 2007-2-7 11:11:34

Electronics: DAE3 Sn536

Medium: 2450 Body

Medium parameters used: $\sigma = 1.89$ mho/m; $\epsilon_r = 51.23$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: Wlan 2450 Frequency: 2462 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.35, 4.35, 4.35)

Toward Phantom High/Area Scan (61x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.026 mW/g

Toward Phantom High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.71 V/m; Power Drift = 0.187 dB

Peak SAR (extrapolated) = 0.054 W/kg

SAR(1 g) = 0.00167 mW/g; SAR(10 g) = 0.000208 mW/g

Maximum value of SAR (measured) = 0.054 mW/g

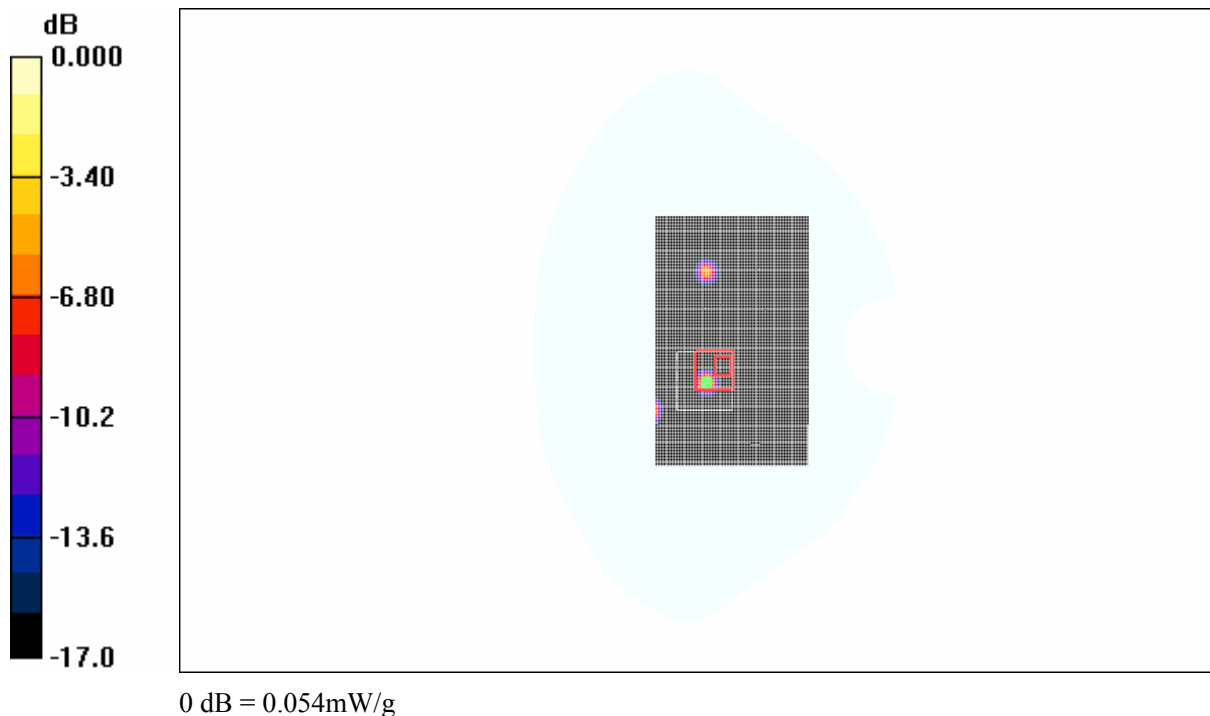


Fig. 100 Mode 802.11b Body Towards Phantom 2450MHz CH11

Mode 802.11b Toward Phantom Middle

Date/Time: 2007-2-7 12:32:31

Electronics: DAE3 Sn536

Medium: 2450 Body

Medium parameters used: $\sigma = 1.89$ mho/m; $\epsilon_r = 51.23$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: Wlan 2450 Frequency: 2437 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.35, 4.35, 4.35)

Toward Phantom Middle/Area Scan (61x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.030 mW/g

Toward Phantom Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.64 V/m; Power Drift = -0.170 dB

Peak SAR (extrapolated) = 0.037 W/kg

SAR(1 g) = 0.00103 mW/g; SAR(10 g) = 0.000167 mW/g

Maximum value of SAR (measured) = 0.046 mW/g

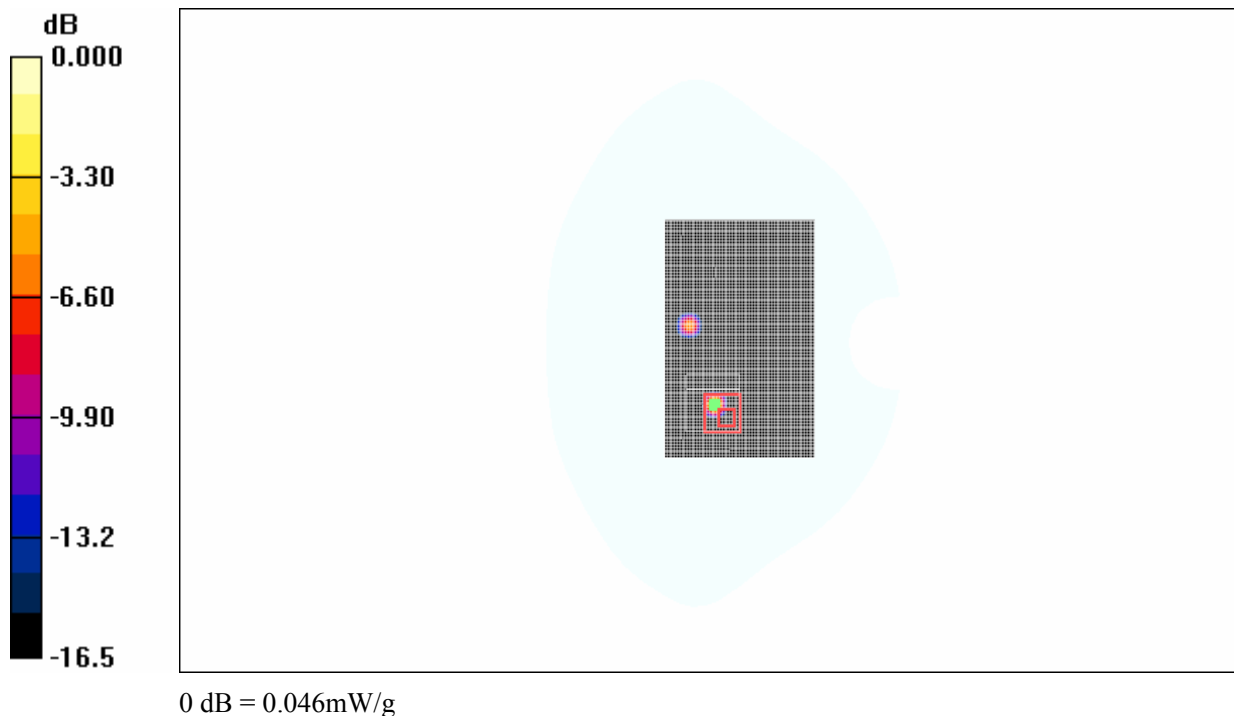


Fig. 101 Mode 802.11b Body Towards Phantom 2450MHz CH6

Mode 802.11b Toward Phantom Low

Date/Time: 2007-2-7 11:55:51

Electronics: DAE3 Sn536

Medium: 2450 Body

Medium parameters used: $\sigma = 1.89$ mho/m; $\epsilon_r = 51.23$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: Wlan 2450 Frequency: 2412 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.35, 4.35, 4.35)

Toward Phantom Low/Area Scan (61x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.018 mW/g

Toward Phantom Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.74 V/m; Power Drift = -0.200 dB

Peak SAR (extrapolated) = 0.160 W/kg

SAR(1 g) = 0.00947 mW/g; SAR(10 g) = 0.00163 mW/g

Maximum value of SAR (measured) = 0.055 mW/g

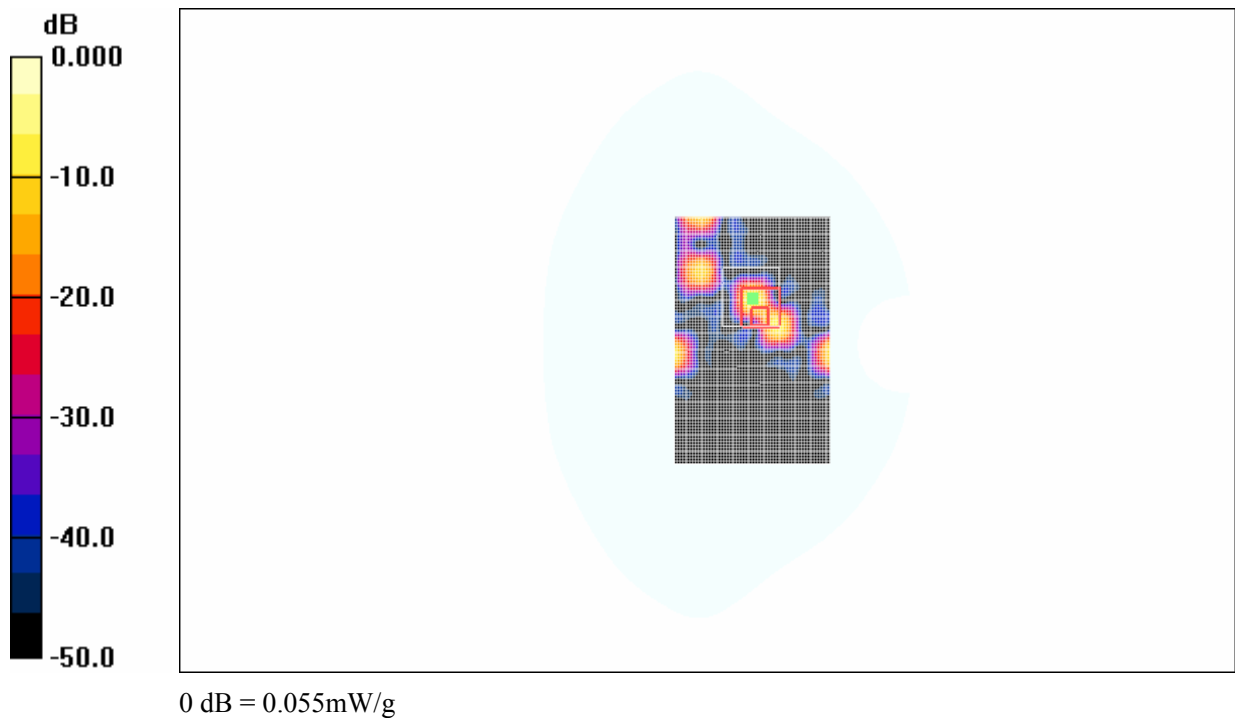


Fig. 102 Mode 802.11b Body Towards Phantom 2450MHz CH1

Mode 802.11g Toward Ground High

Date/Time: 2007-2-7 12:17:23

Electronics: DAE3 Sn536

Medium: 2450 Body

Medium parameters used: $\sigma = 1.89$ mho/m; $\epsilon_r = 51.23$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: Wlan 2450 Frequency: 2462 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.35, 4.35, 4.35)

Toward Ground High/Area Scan (61x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.074 mW/g

Toward Ground High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.19 V/m; Power Drift = -0.157 dB

Peak SAR (extrapolated) = 0.050 W/kg

SAR(1 g) = 0.00945 mW/g; SAR(10 g) = 0.00305 mW/g

Maximum value of SAR (measured) = 0.042 mW/g

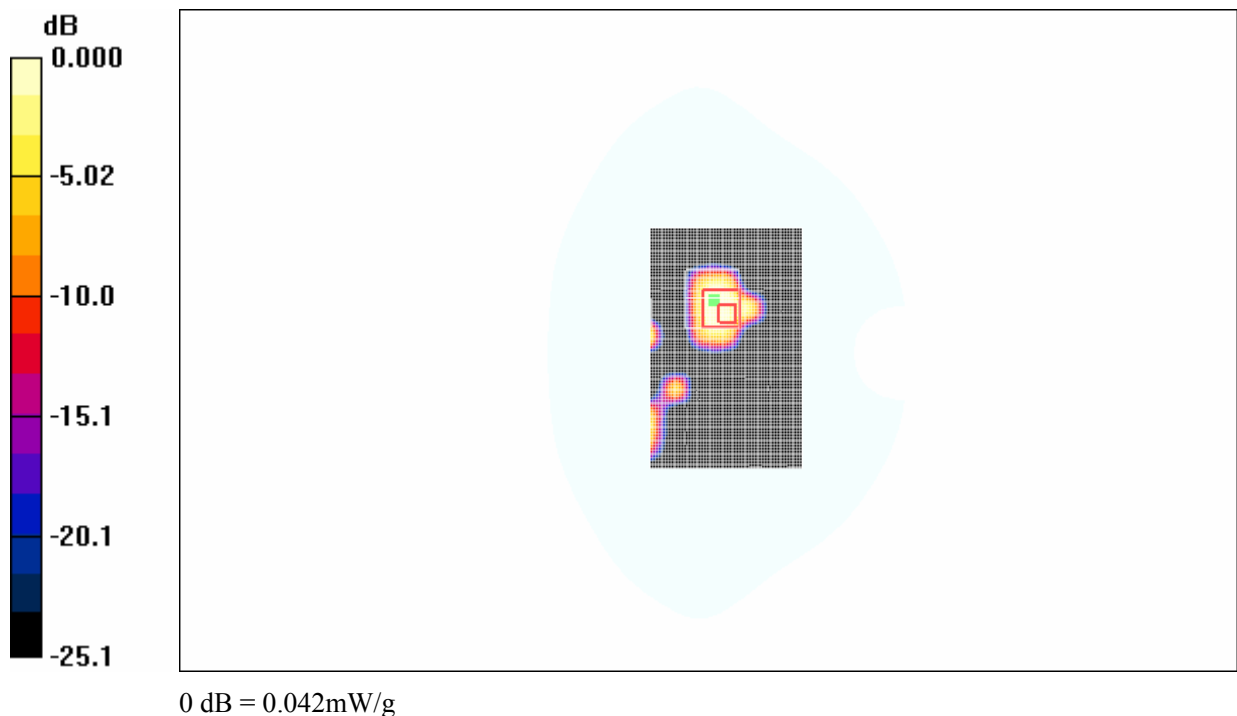


Fig. 103 Mode 802.11g Body Towards Ground 2450MHz CH11

Mode 802.11g Toward Ground Middle

Date/Time: 2007-2-7 12:45:46

Electronics: DAE3 Sn536

Medium: 2450 Body

Medium parameters used: $\sigma = 1.89$ mho/m; $\epsilon_r = 51.23$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: Wlan 2450 Frequency: 2437 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.35, 4.35, 4.35)

Toward Ground Middle/Area Scan (61x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.017 mW/g

Toward Ground Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.429 V/m; Power Drift = 0.200 dB

Peak SAR (extrapolated) = 0.043 W/kg

SAR(1 g) = 0.00233 mW/g; SAR(10 g) = 0.000437 mW/g

Maximum value of SAR (measured) = 0.043 mW/g

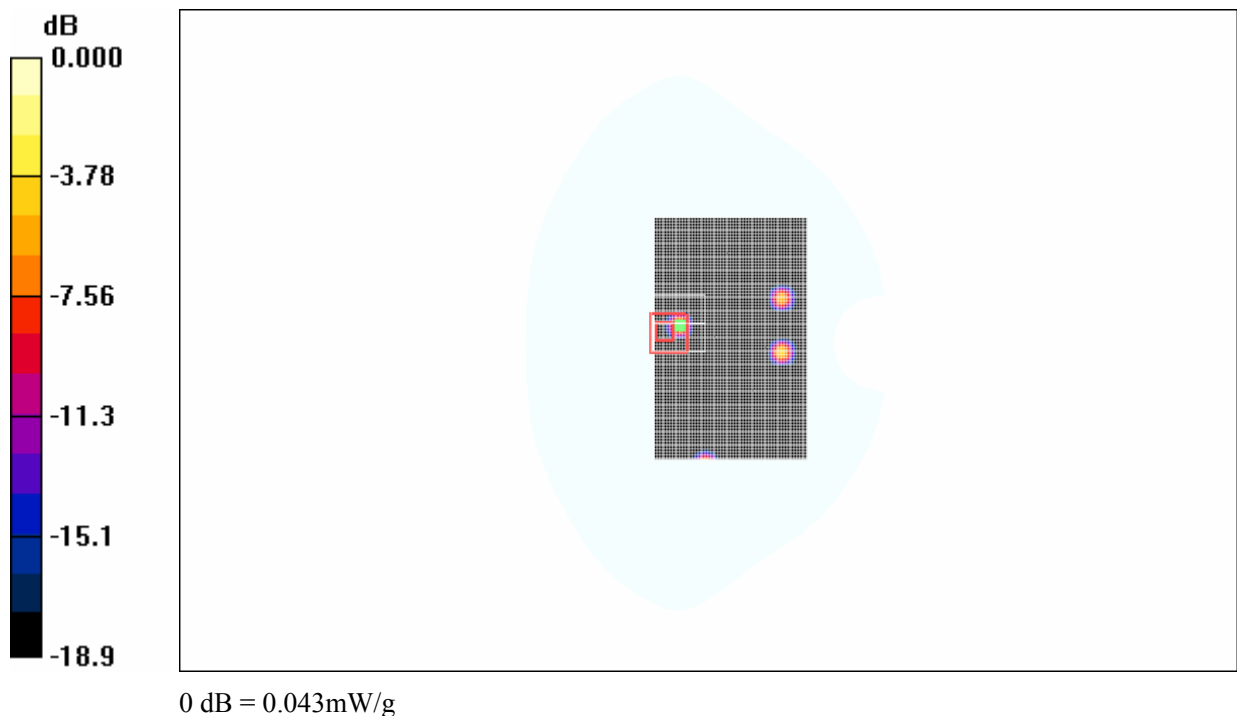


Fig. 104 Mode 802.11g Body Towards Ground 2450MHz CH6

Mode 802.11g Toward Ground Low

Date/Time: 2007-2-7 13:04:26

Electronics: DAE3 Sn536

Medium: 2450 Body

Medium parameters used: $\sigma = 1.89$ mho/m; $\epsilon_r = 51.23$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: Wlan 2450 Frequency: 2412 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.35, 4.35, 4.35)

Toward Ground Low/Area Scan (61x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.016 mW/g

Toward Ground Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.10 V/m; Power Drift = 0.188 dB

Peak SAR (extrapolated) = 0.053 W/kg

SAR(1 g) = 0.00357 mW/g; SAR(10 g) = 0.000911 mW/g

Maximum value of SAR (measured) = 0.053 mW/g

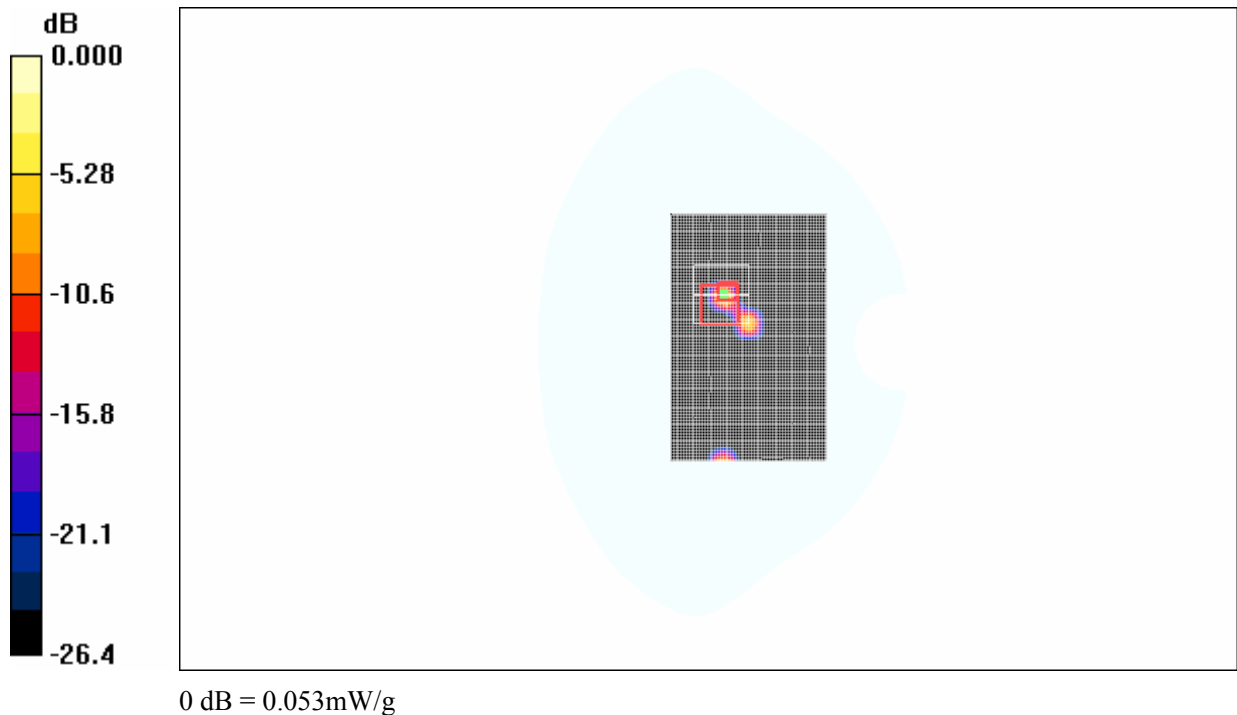


Fig. 105 Mode 802.11g Body Towards Ground 2450MHz CH1

Mode 802.11g Toward Phantom High

Date/Time: 2007-2-7 13:28:26

Electronics: DAE3 Sn536

Medium: 2450 Body

Medium parameters used: $\sigma = 1.89$ mho/m; $\epsilon_r = 51.23$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: Wlan 2450 Frequency: 2462 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.35, 4.35, 4.35)

Toward Phantom High/Area Scan (61x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.023 mW/g

Toward Phantom High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.12 V/m; Power Drift = -0.154 dB

Peak SAR (extrapolated) = 0.043 W/kg

SAR(1 g) = 0.00333 mW/g; SAR(10 g) = 0.000727 mW/g

Maximum value of SAR (measured) = 0.043 mW/g

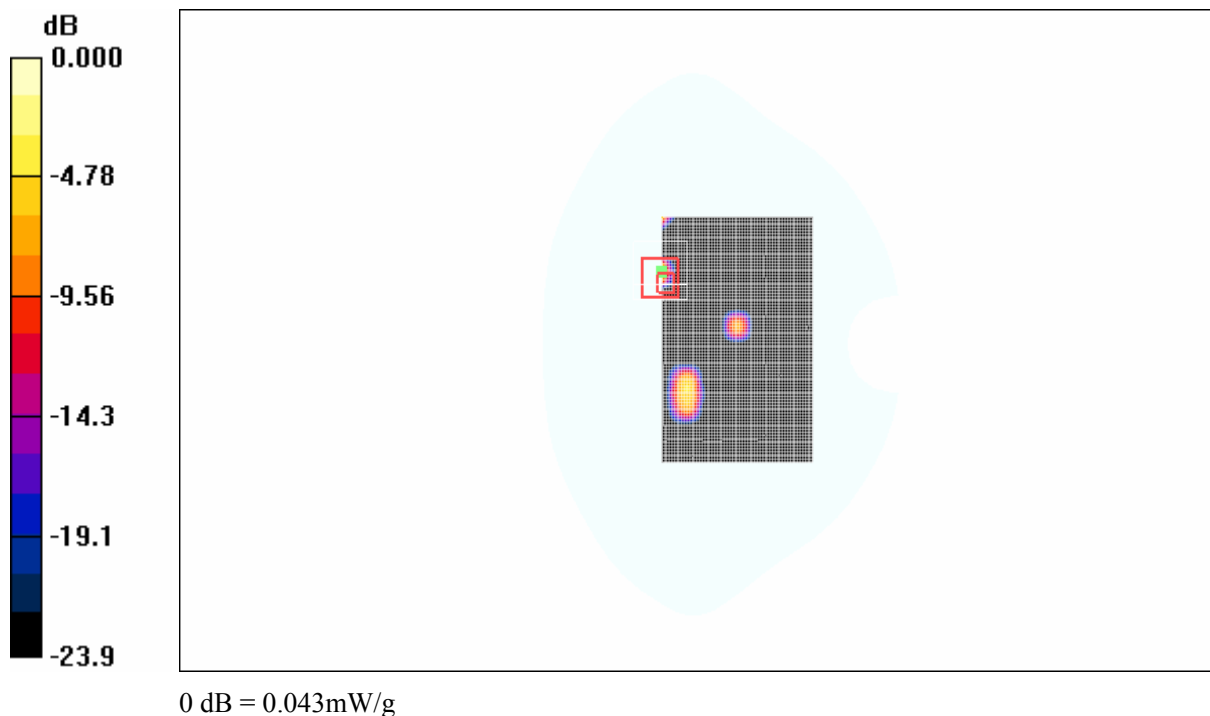


Fig. 106 Mode 802.11g Body Towards Phantom 2450MHz CH11

Mode 802.11g Toward Phantom Middle

Date/Time: 2007-2-7 13:50:44

Electronics: DAE3 Sn536

Medium: 2450 Body

Medium parameters used: $\sigma = 1.89$ mho/m; $\epsilon_r = 51.23$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: Wlan 2450 Frequency: 2437 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.35, 4.35, 4.35)

Toward Phantom Middle/Area Scan (61x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.017 mW/g

Toward Phantom Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.762 V/m; Power Drift = 0.176 dB

Peak SAR (extrapolated) = 0.042 W/kg

SAR(1 g) = 0.000553 mW/g; SAR(10 g) = 0.000112 mW/g

Maximum value of SAR (measured) = 0.042 mW/g

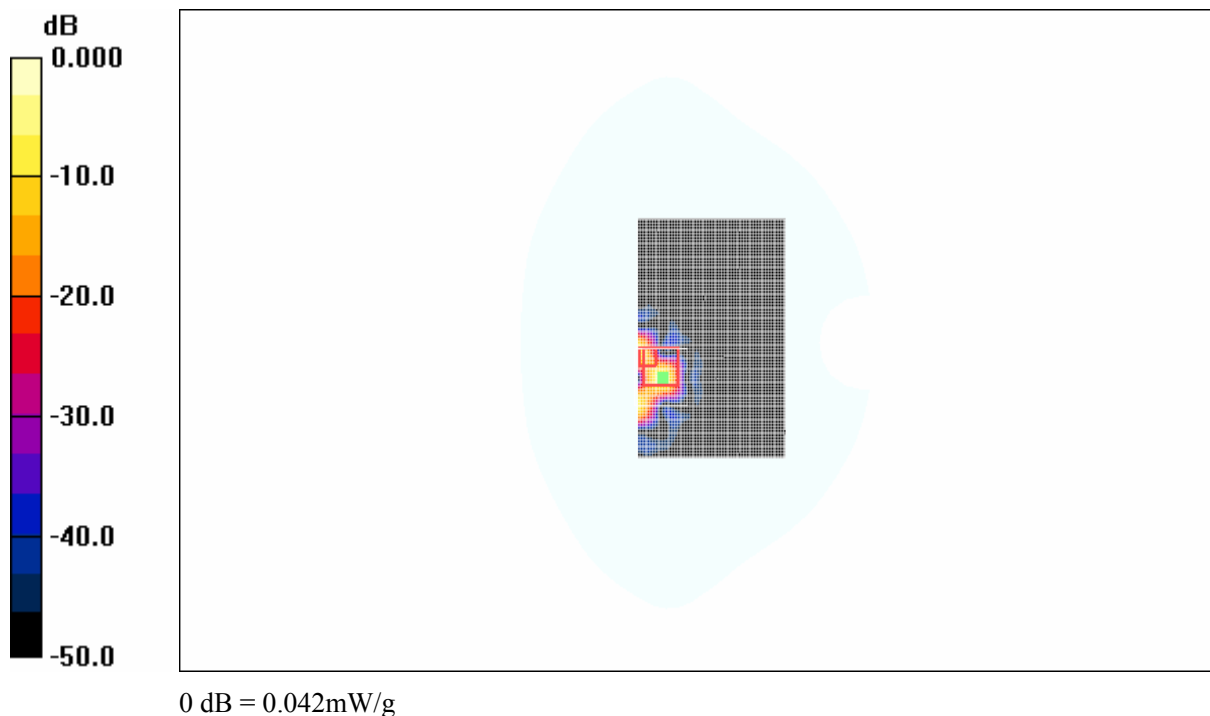


Fig. 107 Mode 802.11g Body Towards Phantom 2450MHz CH6

Mode 802.11g Toward Phantom Low

Date/Time: 2007-2-7 14:15:52

Electronics: DAE3 Sn536

Medium: 2450 Body

Medium parameters used: $\sigma = 1.89$ mho/m; $\epsilon_r = 51.23$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: Wlan 2450 Frequency: 2412 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.35, 4.35, 4.35)

Toward Phantom Low/Area Scan (61x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.010 mW/g

Toward Phantom Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.21 V/m; Power Drift = -0.192 dB

Peak SAR (extrapolated) = 0.045 W/kg

SAR(1 g) = 0.00183 mW/g; SAR(10 g) = 0.000348 mW/g

Maximum value of SAR (measured) = 0.045 mW/g

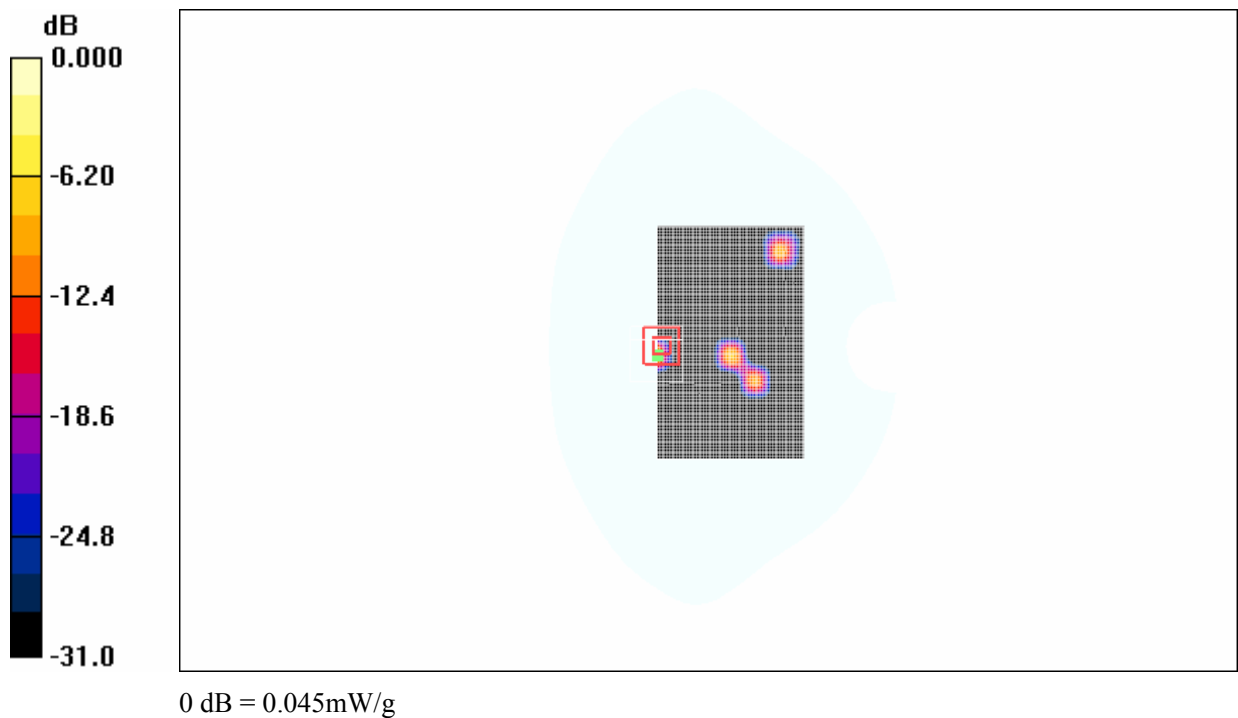


Fig. 108 Mode 802.11g Body Towards Phantom 2450MHz CH1

ANNEX D: SYSTEM VALIDATION RESULTS

835MHzDAE589Probe1736

Date/Time: 2007-2-6 7:27:50

Electronics: DAE3 Sn536

Medium: 835 Head

Medium parameters used: $\sigma = 0.88$ mho/m; $\epsilon_r = 41.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.3°C

Communication System: CW Frequency: 835 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(6.51, 6.51, 6.51)

835MHz/Area Scan (101x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 2.68 mW/g

835MHz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 56.8 V/m; Power Drift = -0.0 dB

Peak SAR (extrapolated) = 3.67 W/kg

SAR(1 g) = 2.48 mW/g; SAR(10 g) = 1.62 mW/g

Maximum value of SAR (measured) = 2.69 mW/g

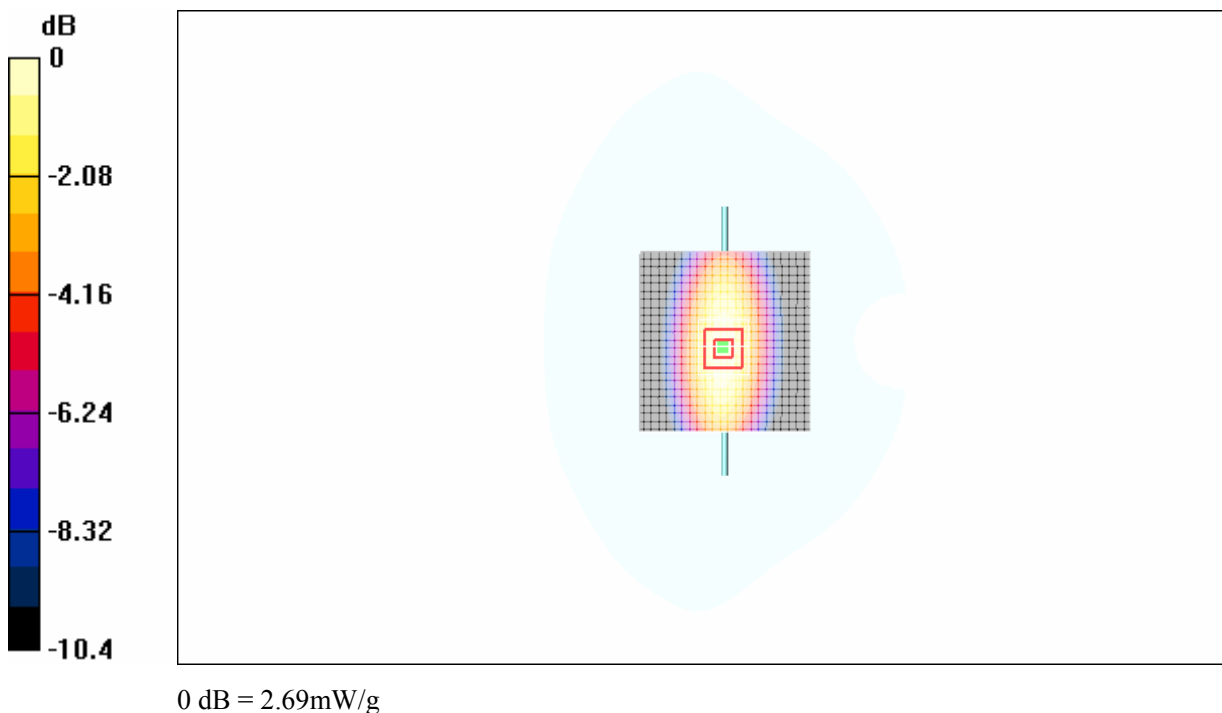


Fig.109 validation 835MHz 250mW

1900MHzDAE536Probe1736

Date/Time: 2007-2-5 8:23:43

Electronics: DAE3 Sn536

Medium: 2450 Head

Medium parameters used: $\sigma = 1.45$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.3°C

Communication System: CW Frequency: 2450 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(5.4, 5.4, 5.4)

System Validation/Area Scan (101x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 11.2 mW/g

System Validation/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 92.1 V/m; Power Drift = 0.1 dB

Peak SAR (extrapolated) = 16.9 W/kg

SAR(1 g) = 9.91 mW/g; SAR(10 g) = 5.27 mW/g

Maximum value of SAR (measured) = 11.3 mW/g

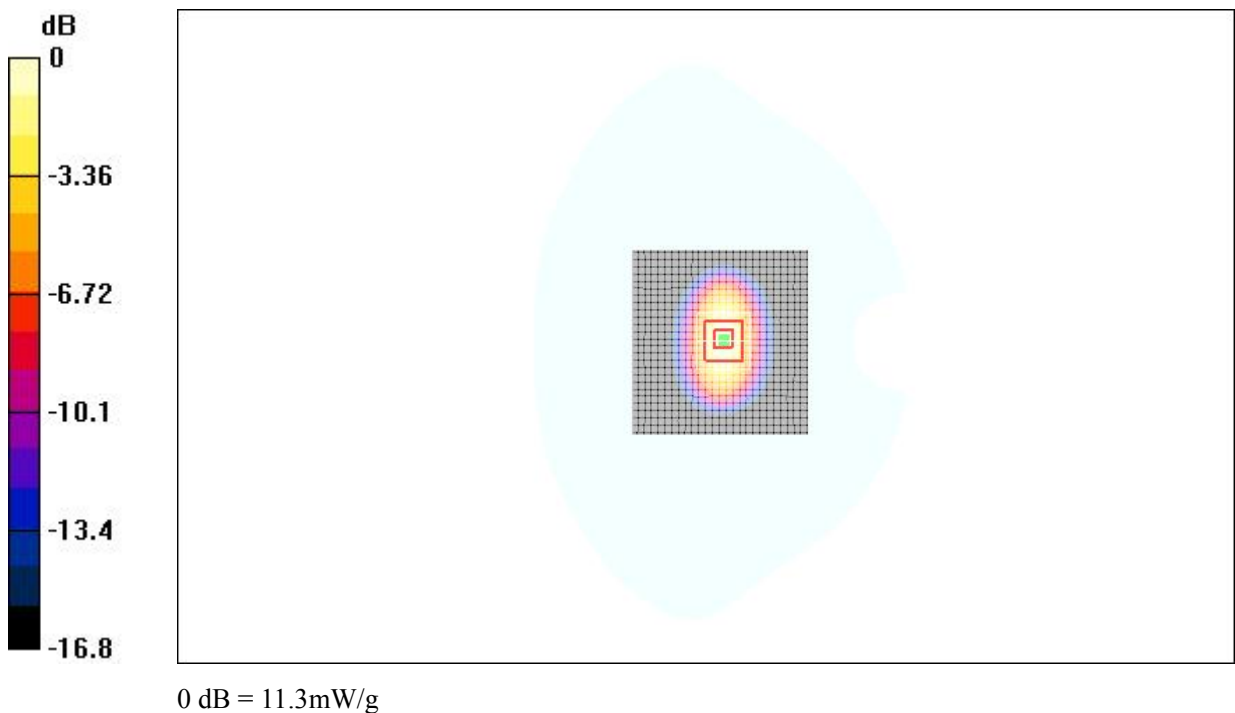


Fig.110 validation 1900MHz 250mW

2450MHzDAE536Probe1736

Date/Time: 2007-2-7 7:45:17

Electronics: DAE3 Sn536

Medium: 2450 Head

Medium parameters used: $\sigma = 1.83$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.3°C

Communication System: CW Frequency: 2450 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.67, 4.67, 4.67)

System Validation/Area Scan (101x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 14.6 mW/g

System Validation/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 87.2 V/m; Power Drift = -0.1 dB

Peak SAR (extrapolated) = 19.4 W/kg

SAR(1 g) = 13.21 mW/g; SAR(10 g) = 6.08 mW/g

Maximum value of SAR (measured) = 14.7 mW/g

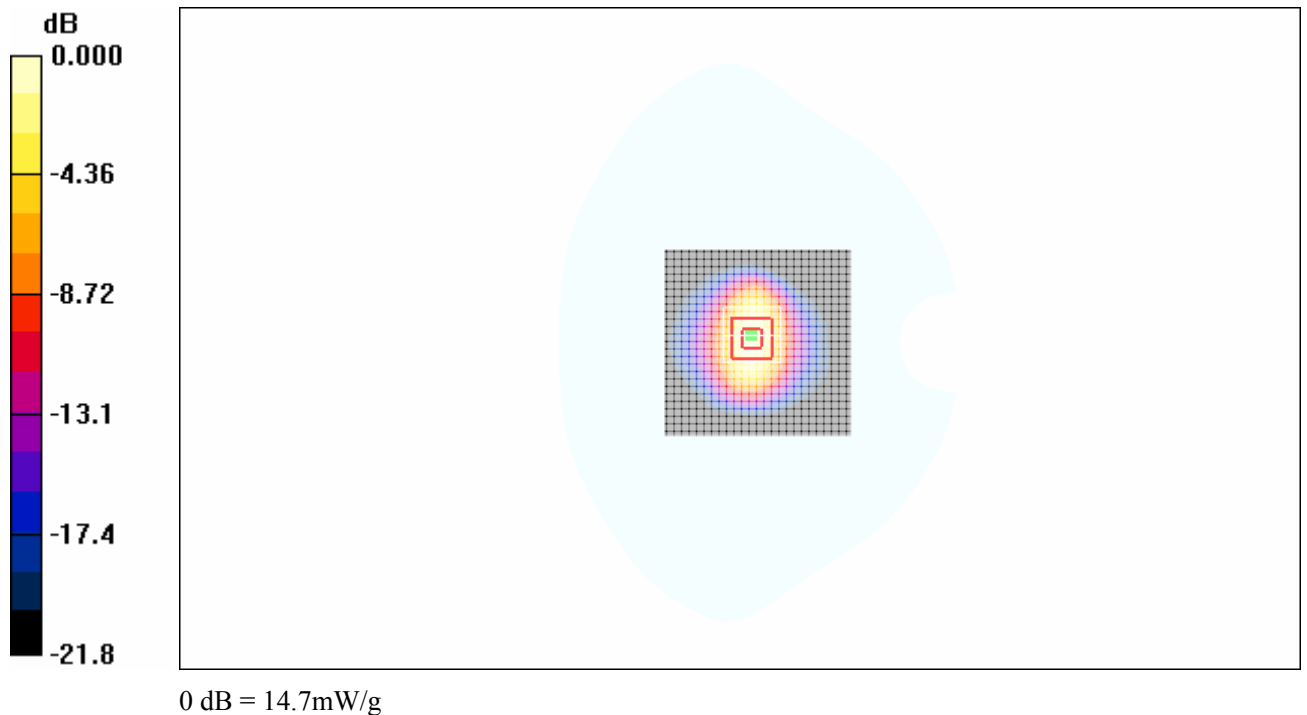


Fig.111 validation 1900MHz 250mW

ANNEX E: PROBE CALIBRATION CERTIFICATE

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland



S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
S Servizio svizzero di taratura
S Swiss Calibration Service

Accredited by the Swiss Federal Office of metrology and Accreditation
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates
Client **TMC China**

Accreditation No.: **SCS 108**

Certificate No: **ET3DV6-1736_Dec06**

CALIBRATION CERTIFICATE

Object	ET3DV6-SN: 1736
Calibration procedure(s)	QA CAL-01.v5 Calibration procedure for dosimetric E-field probes
Calibration date:	December 1, 2006
Condition of the calibrated item	In Tolerance

This calibration certify documents the traceability to national standards, which realize the physical units of measurements(SI).
All calibrations have been conducted at an environment temperature (22±3)°C and humidity<70%

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID#	Cal Data (Calibrated by, Certification NO.)	Scheduled Calibration
Power meter E4419B	GB341293874	22-May-06 (METAS, NO. 251-00466)	May-07
Power sensor E4412A	MY41495277	22-May-06 (METAS, NO. 251-00466)	May-07
Power sensor E4412A	MY41498087	22-May-06 (METAS, NO. 251-00466)	May-07
Reference 20 dB Attenuator	SN:S5086 (20b)	22-May-06 (METAS, NO. 251-00467)	May-07
Reference Probe ES3DV2	SN:S5086 (20b)	22-May-06 (METAS, NO. 251-00467)	May-07
DAE4	SN:3013	13-Jan-06 (SPEAG, NO. ES3-3013_Jan06)	Jan-07
Reference Probe ES3DV2	SN: 907	11-Jun-06 (SPEAG, NO.DAE4-907_Jun06)	Jun-07
Secondary Standards	ID#	Check Data (in house)	Scheduled Calibration
RF generator HP8648C	US3642U01700	4-Dec-05(SPEAG, in house check Dec-03)	In house check: Dec-09
Network Analyzer HP 8753E	US37390585	10-Nov-05(SPEAG, NO. DAE4-901_Nov-04)	In house check: Nov-09

	Name	Function	Signature
Calibrated by:	Nico Vetterli	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Director	

Issued: December 1, 2006

This calibration certificate shall not be reported except in full without written approval of the laboratory.

Calibration Laboratory of
Schmid & Partner
Engineering AG
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Accreditation No.: **SCS 108**

Glossary:

TSL	tissue simulating liquid
NORM _{x,y,z}	sensitivity in free space
ConF	sensitivity in TSL / NORM _{x,y,z}
DCP	diode compression point
Polarization ϕ	ϕ rotation around probe axis
Polarization ϑ	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is normal to probe axis

Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2003, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", December 2003
- CENELEC EN 50361, "Basic standard for the measurement of Specific Absorption Rate related to human exposure to electromagnetic fields from mobile phones (300 MHz - 3 GHz), July 2001

Methods Applied and Interpretation of Parameters:

- NORM_{x,y,z}:** Assessed for E-field polarization $\vartheta = 0$ ($f \leq 900$ MHz in TEM-cell; $f > 1800$ MHz: R22 waveguide). NORM_{x,y,z} are only intermediate values, i.e., the uncertainties of NORM_{x,y,z} does not effect the E²-field uncertainty inside TSL (see below *ConvF*).
- NORM(*f*)_{x,y,z} = NORM_{x,y,z} * frequency_response** (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of *ConvF*.
- DCP_{x,y,z}:** DCP are numerical linearization parameters assessed based on the data of power sweep (no uncertainty required). DCP does not depend on frequency nor media.
- ConvF and Boundary Effect Parameters:** Assessed in flat phantom using E-field (or Temperature Transfer Standard for $f \leq 800$ MHz) and inside waveguide using analytical field distributions based on power measurements for $f > 800$ MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORM_{x,y,z} * *ConvF* whereby the uncertainty corresponds to that given for *ConvF*. A frequency dependent *ConvF* is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- Spherical isotropy (3D deviation from isotropy):** in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset:** The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.

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Probe ET3DV6

SN: 1736

Manufactured:	September 27, 2002
Last calibrated:	November 25, 2005
Recalibrated:	December 1, 2006

Calibrated for DASY System

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December 1, 2006

DASY - Parameters of Probe: ET3DV6 SN:1736

Sensitivity in Free Space^A

Diode Compression^B

NormX	1.97 ± 10.1%	$\mu\text{V}/(\text{V}/\text{m})^2$	DCP X	93 mV
NormY	1.75 ± 10.1%	$\mu\text{V}/(\text{V}/\text{m})^2$	DCP Y	93 mV
NormZ	1.97 ± 10.1%	$\mu\text{V}/(\text{V}/\text{m})^2$	DCP Z	93 mV

Sensitivity in Tissue Simulating Liquid (Conversion Factors)

Please see Page 8.

Boundary Effect

TSL 900 MHz Typical SAR gradient: 5 % per mm

Sensor Center to Phantom Surface Distance		3.7 mm	4.7 mm
SAR _{be} [%]	Without Correction Algorithm	9.6	5.0
SAR _{be} [%]	With Correction Algorithm	0.1	0.3

TSL 1810 MHz Typical SAR gradient: 10 % per mm

Sensor Center to Phantom Surface Distance		3.7 mm	4.7 mm
SAR _{be} [%]	Without Correction Algorithm	13.2	8.8
SAR _{be} [%]	With Correction Algorithm	0.6	0.1

Sensor Offset

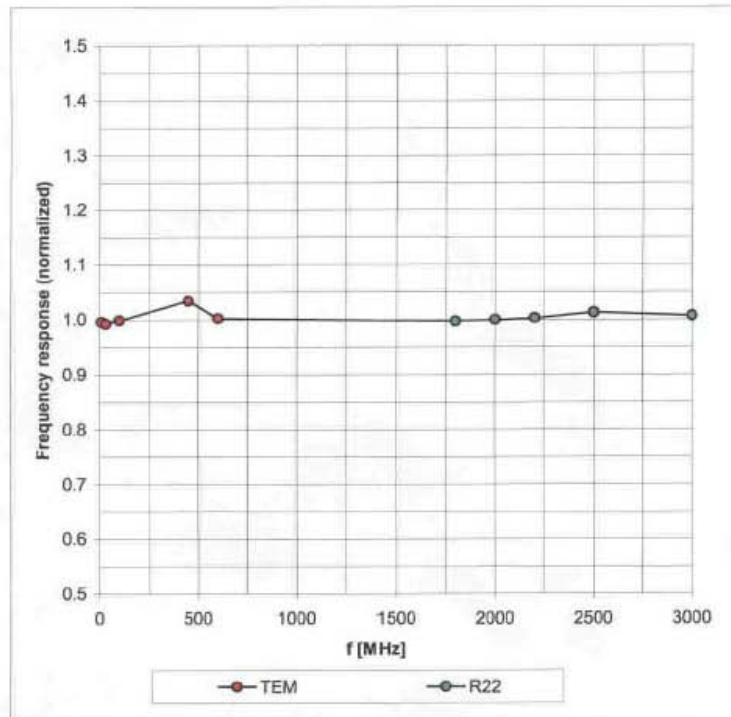
Probe Tip to Sensor Center	2.7 mm
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Frequency Response of E-Field

(TEM-Cell:ifi110 EXX, Waveguide: R22)

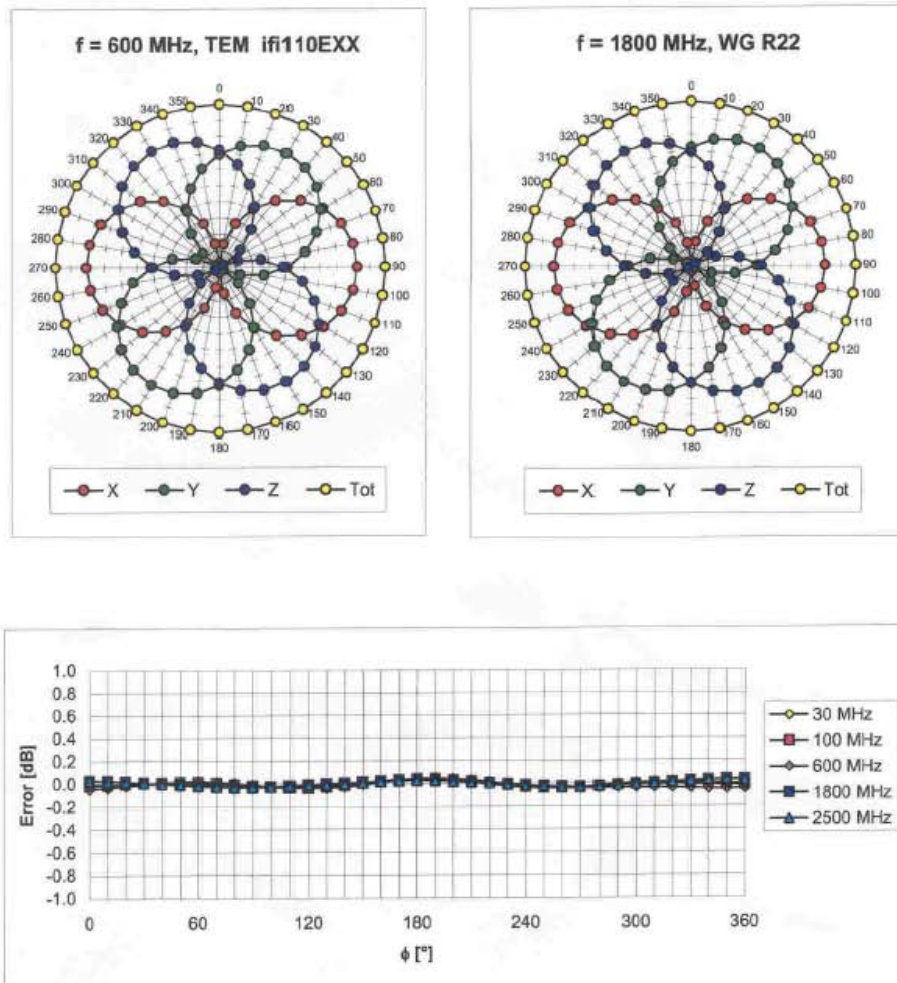


Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ ($k=2$)

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Receiving Pattern (ϕ), $\theta = 0^\circ$

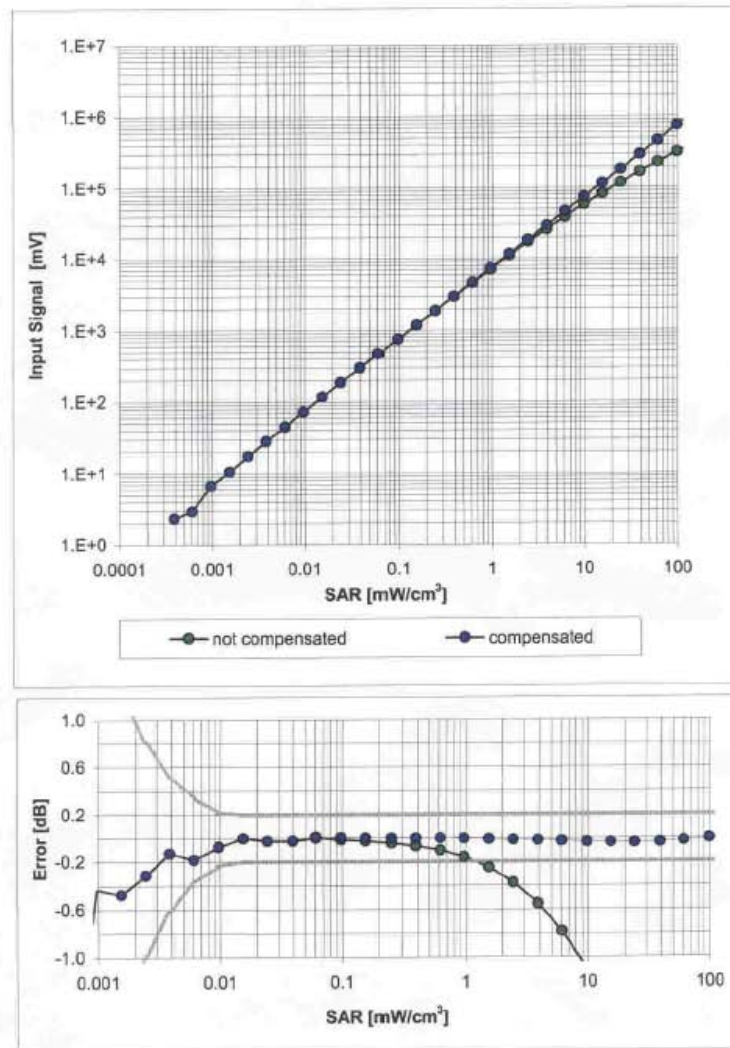


Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)

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Dynamic Range $f(\text{SAR}_{\text{head}})$
(Waveguide R22, $f = 1800 \text{ MHz}$)

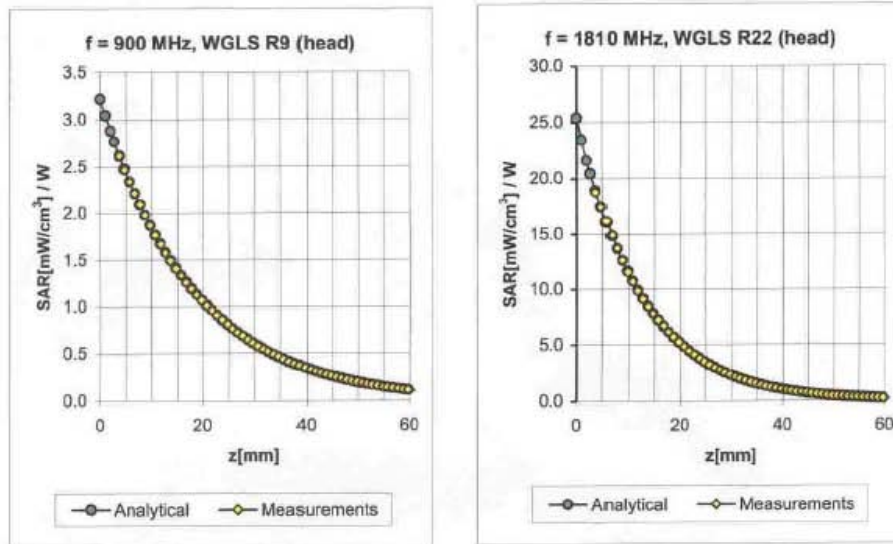


Uncertainty of Linearity Assessment: $\pm 0.6\%$ ($k=2$)

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Conversion Factor Assessment



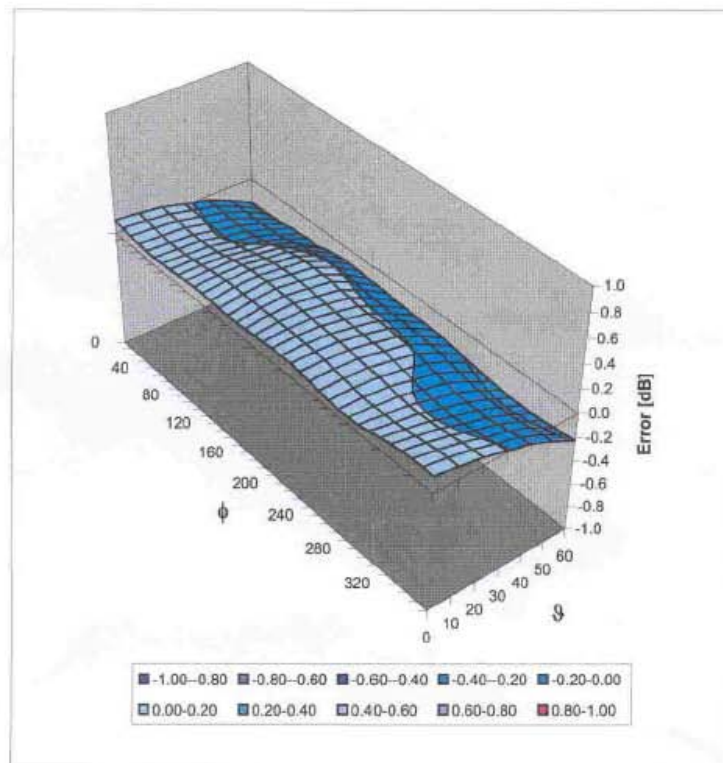
f [MHz]	Validity [MHz] ^c	TSL	Permittivity	Conductivity	Alpha	Depth	ConvF Uncertainty
900	± 50 / ± 100	Head	41.5 ± 5%	0.97 ± 5%	0.56	1.85	6.51 ± 11.0% (k=2)
1810	± 50 / ± 100	Head	40.0 ± 5%	1.40 ± 5%	0.57	2.47	5.40 ± 11.0% (k=2)
2450	± 50 / ± 100	Head	39.2 ± 5%	1.80 ± 5%	0.62	2.29	4.67 ± 11.8% (k=2)
450	± 50 / ± 100	Body	56.7 ± 5%	0.94 ± 5%	0.12	1.61	7.74 ± 13.3% (k=2)
900	± 50 / ± 100	Body	55.0 ± 5%	1.05 ± 5%	0.47	2.15	6.45 ± 11.0% (k=2)
1810	± 50 / ± 100	Body	53.3 ± 5%	1.52 ± 5%	0.53	2.78	4.88 ± 11.0% (k=2)
2450	± 50 / ± 100	Body	52.7 ± 5%	1.95 ± 5%	0.65	2.11	4.35 ± 11.8% (k=2)

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Deviation from Isotropy in HSL

Error (ϕ , θ), $f = 900$ MHz



Uncertainty of Spherical Isotropy Assessment: $\pm 2.6\%$ ($k=2$)