850 Body Left Side Middle with GPRS

Date/Time: 2/24/2013

Electronics: DAE4 Sn786

Medium: Body 900

Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.975 S/m; ε_r = 53.861; ρ = 1000 kg/m^3

Ambient Temperature:21.9^{o}C   Liquid Temperature: 21.5^{o}C

Communication System: 1 slot GPRS Frequency: 836.6 MHz Duty Cycle: 1:8.30042

Probe: ES3DV3 - SN3151 ConvF(6.07, 6.07, 6.07); Calibrated: 4/24/2012

Left side Middle/Area Scan (51x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 21.892 V/m; Power Drift = 0.00 dB

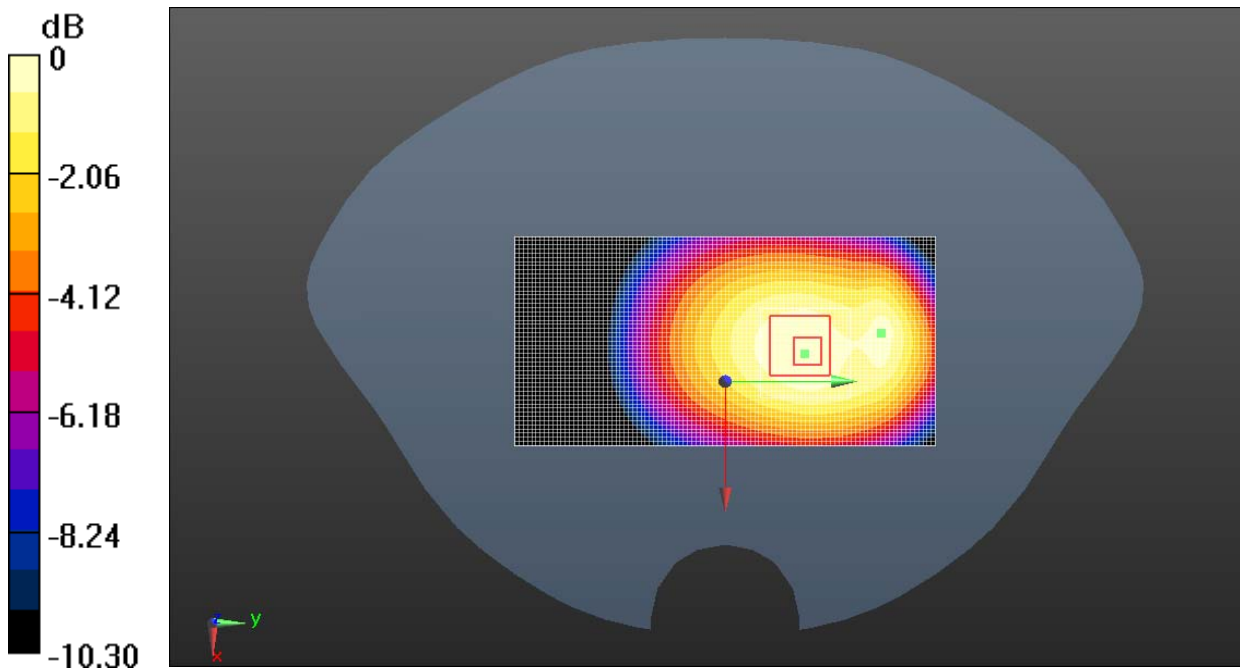Maximum value of SAR (interpolated) = 0.491 W/kg

Left side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.892 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.630 W/kg

SAR(1 g) = 0.459 W/kg; SAR(10 g) = 0.318 W/kg

Maximum value of SAR (measured) = 0.492 W/kg

0 dB = 0.492 W/kg = -3.08 dBW/kg

Fig. 17 850 MHz CH190

850 Body Right Side Middle with GPRS

Date/Time: 2/24/2013

Electronics: DAE4 Sn786

Medium: Body 900

Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.975 S/m; ε_r = 53.861; ρ = 1000 kg/m^3

Ambient Temperature:21.9^{o}C   Liquid Temperature: 21.5^{o}C

Communication System: 1 slot GPRS Frequency: 836.6 MHz Duty Cycle: 1:8.30042

Probe: ES3DV3 - SN3151 ConvF(6.07, 6.07, 6.07); Calibrated: 4/24/2012

Right side Middle/Area Scan (51x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 18.894 V/m; Power Drift = 0.10 dB
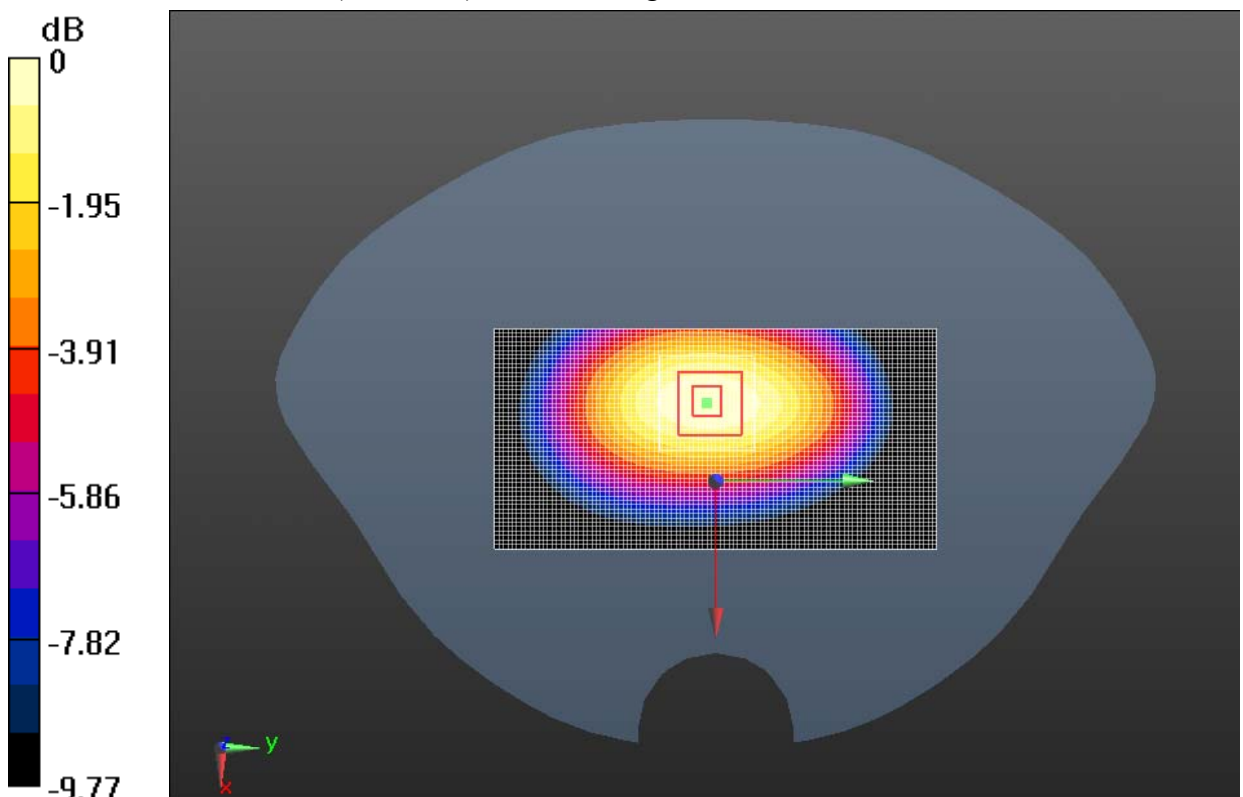
Maximum value of SAR (interpolated) = 0.404 W/kg

Right side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.894 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.529 W/kg

SAR(1 g) = 0.380 W/kg; SAR(10 g) = 0.261 W/kg

Maximum value of SAR (measured) = 0.407 W/kg

0 dB = 0.407 W/kg = -3.91 dBW/kg

Fig. 18 850 MHz CH190

850 Body Bottom Side Middle with GPRS

Date/Time: 2/24/2013

Electronics: DAE4 Sn786

Medium: Body 900

Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.975 S/m; ε_r = 53.861; ρ = 1000 kg/m^3

Ambient Temperature:21.9^{o}C   Liquid Temperature: 21.5^{o}C

Communication System: 1 slot GPRS Frequency: 836.6 MHz Duty Cycle: 1:8.30042

Probe: ES3DV3 - SN3151 ConvF(6.07, 6.07, 6.07); Calibrated: 4/24/2012

Bottom side Middle/Area Scan (41x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 10.218 V/m; Power Drift = -0.02 dB
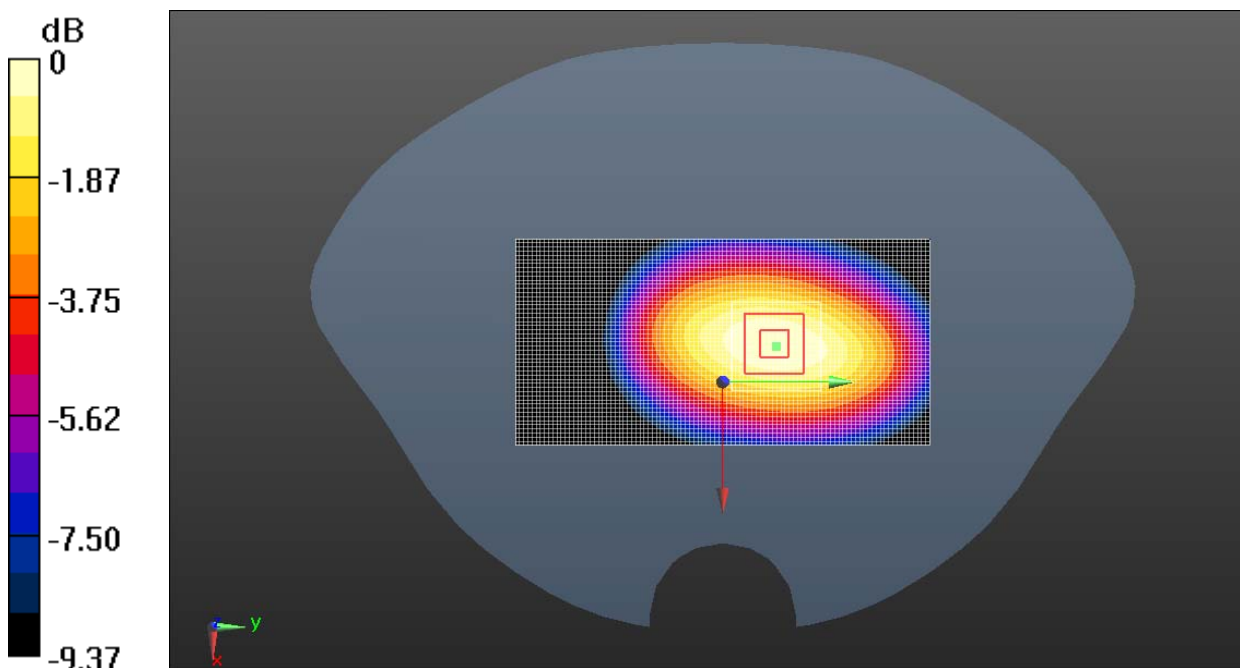
Maximum value of SAR (interpolated) = 0.110 W/kg

GSM850 BODY1/Bottom side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.218 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.180 W/kg

SAR(1 g) = 0.101 W/kg; SAR(10 g) = 0.064 W/kg

Maximum value of SAR (measured) = 0.108 W/kg

0 dB = 0.108 W/kg = -9.68 dBW/kg

Fig. 19 850 MHz CH190

850 Body Towards Ground High with EGPRS

Date/Time: 2/24/2013

Electronics: DAE4 Sn786

Medium: Body 900

Medium parameters used (interpolated): f = 848.8 MHz; σ = 0.986 S/m; ε_r = 53.695; ρ = 1000 kg/m^3

Ambient Temperature:21.9^{o}C   Liquid Temperature: 21.5^{o}C

Communication System: 1 slot GPRS Frequency: 848.8 MHz Duty Cycle: 1:8.30042

Probe: ES3DV3 - SN3151 ConvF(6.07, 6.07, 6.07); Calibrated: 4/24/2012

Towards Ground High_EGPRS/Area Scan (51x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 27.985 V/m; Power Drift = 0.02 dB

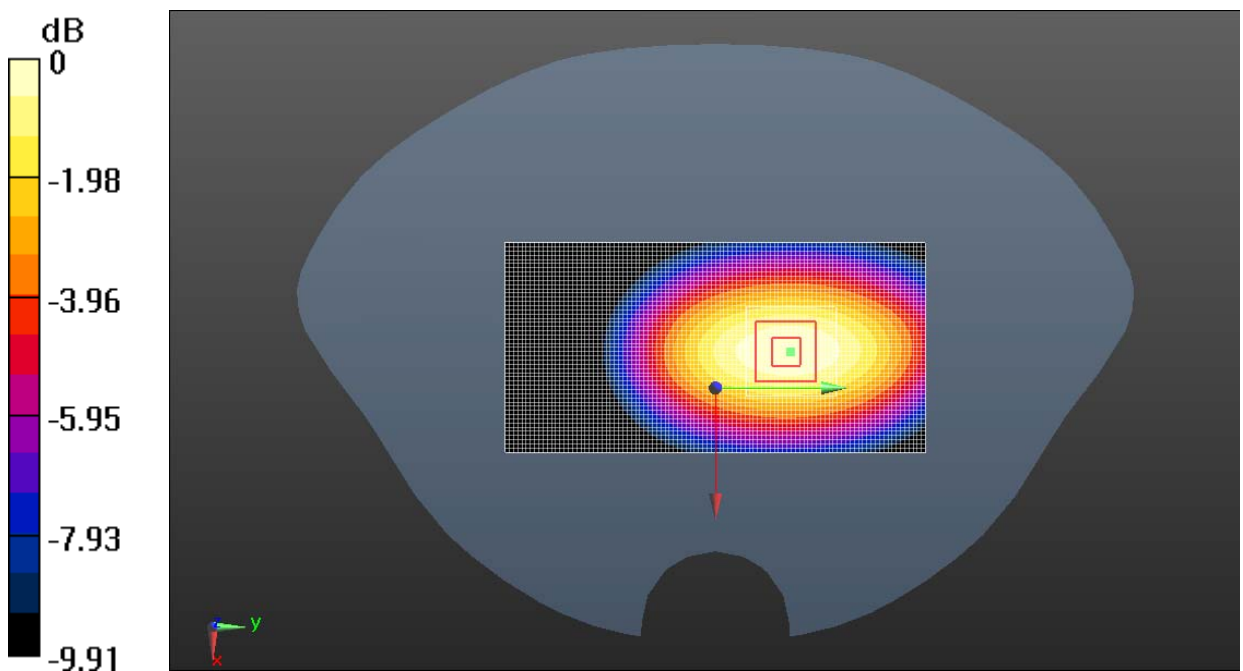Maximum value of SAR (interpolated) = 0.881 W/kg

Towards Ground High_EGPRS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.985 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.822 W/kg; SAR(10 g) = 0.598 W/kg

Maximum value of SAR (measured) = 0.871 W/kg

0 dB = 0.871 W/kg = -0.60 dBW/kg

Fig. 20 850 MHz CH251

850 Towards Ground High with Headset AE3

Date/Time: 2/24/2013

Electronics: DAE4 Sn786

Medium: Body 900

Medium parameters used (interpolated): f = 848.8 MHz; σ = 0.986 S/m; ε_r = 53.695; ρ = 1000 kg/m^3

Ambient Temperature:21.9^{o}C   Liquid Temperature: 21.5^{o}C

Communication System: GSM Frequency: 848.8 MHz Duty Cycle: 1:8.30042

Probe: ES3DV3 - SN3151 ConvF(6.07, 6.07, 6.07); Calibrated: 4/24/2012

Towards Ground High_AE3 /Area Scan (51x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 25.554 V/m; Power Drift = -0.01 dB.
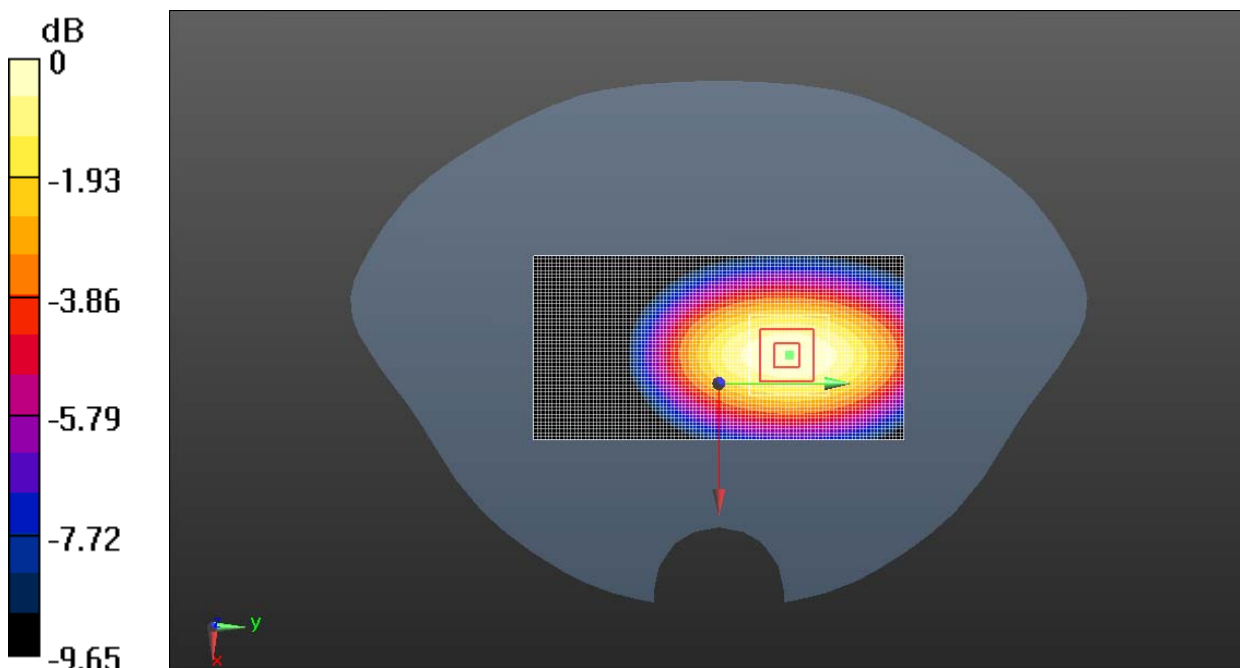
Maximum value of SAR (interpolated) = 0.749 W/kg

Towards Ground High__AE3/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.554 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.912 W/kg

SAR(1 g) = 0.700 W/kg; SAR(10 g) = 0.507 W/kg

Maximum value of SAR (measured) = 0.742 W/kg

0 dB = 0.742 W/kg = -1.30 dBW/kg

Fig. 21 850 MHz CH251

850 Towards Ground High with Headset AE4

Date/Time: 2/24/2013

Electronics: DAE4 Sn786

Medium: Body 900

Medium parameters used (interpolated): f = 848.8 MHz; σ = 0.986 S/m; ε_r = 53.695; ρ = 1000 kg/m^3

Ambient Temperature:21.9^{o}C   Liquid Temperature: 21.5^{o}C

Communication System: GSM Frequency: 848.8 MHz Duty Cycle: 1:8.30042

Probe: ES3DV3 - SN3151 ConvF(6.07, 6.07, 6.07); Calibrated: 4/24/2012

Towards Ground High_ AE4**/Area Scan (51x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 26.462 V/m; Power Drift = 0.02 dB
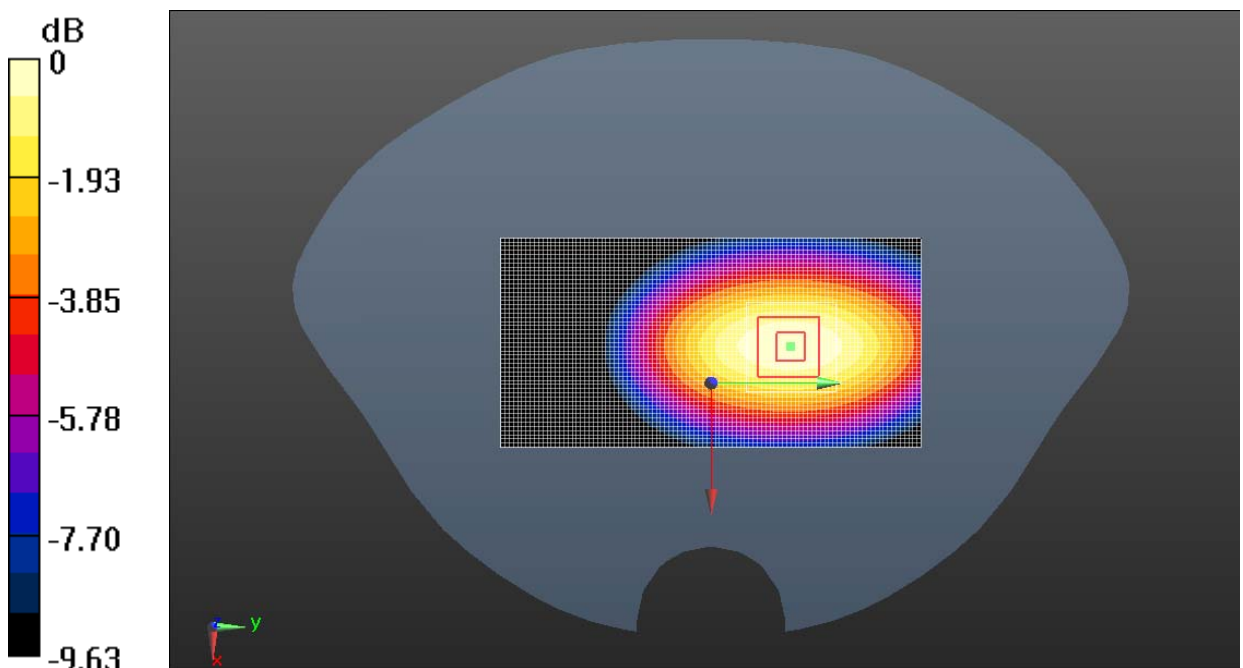
Maximum value of SAR (interpolated) = 0.762 W/kg

Towards Ground High__AE4**/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.462 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.958 W/kg

SAR(1 g) = 0.675 W/kg; SAR(10 g) = 0.478 W/kg

Maximum value of SAR (measured) = 0.726 W/kg

0 dB = 0.726 W/kg = -1.39 dBW/kg

Fig. 22 850 MHz CH190

GSM 1900 Left Cheek High

Date/Time: 2/23/2013

Electronics: DAE4 Sn786

Medium: Head 1900

Medium parameters used: f = 1910 MHz; σ = 1.451 S/m; ε_r = 39.149; ρ = 1000 kg/m^3

Ambient Temperature:22.0^{o}C   Liquid Temperature: 21.5^{o}C

Communication System: GSM Frequency: 1910 MHz Duty Cycle: 1:8.30042

Probe: ES3DV3 - SN3151 ConvF(5.06, 5.06, 5.06); Calibrated: 4/24/2012

Left Cheek High/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 7.155 V/m; Power Drift = 0.11 dB

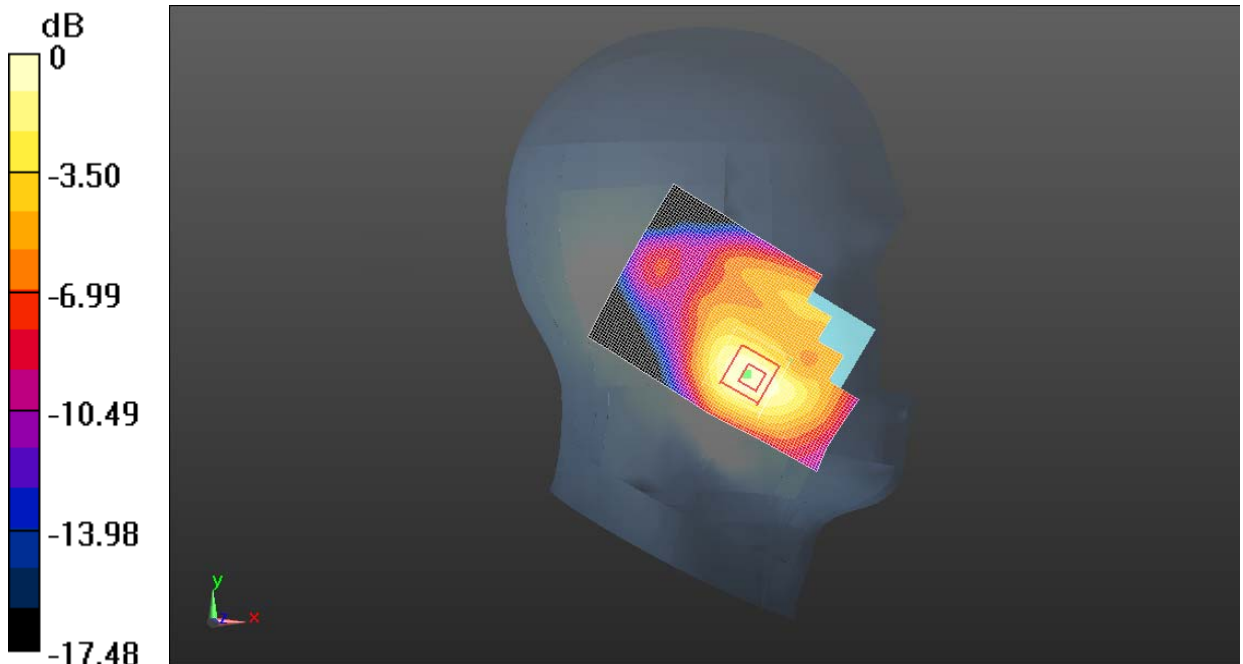Maximum value of SAR (interpolated) = 0.443 W/kg

Left Cheek High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.155 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.651 W/kg

SAR(1 g) = 0.404 W/kg; SAR(10 g) = 0.234 W/kg

Maximum value of SAR (measured) = 0.446 W/kg

0 dB = 0.446 W/kg = -3.51 dBW/kg

Fig. 23 1900 MHz CH810

GSM 1900 Left Cheek Middle

Date/Time: 2/23/2013

Electronics: DAE4 Sn786

Medium: Head 1900

Medium parameters used: f = 1880 MHz; σ = 1.424 S/m; ε_r = 39.231; ρ = 1000 kg/m^3

Ambient Temperature:22.0^{o}C   Liquid Temperature: 21.5^{o}C

Communication System: GSM Frequency: 1880 MHz Duty Cycle: 1:8.30042

Probe: ES3DV3 - SN3151 ConvF(5.06, 5.06, 5.06); Calibrated: 4/24/2012

Left Cheek Middle/Area Scan (51x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 7.279 V/m; Power Drift = -0.05 dB

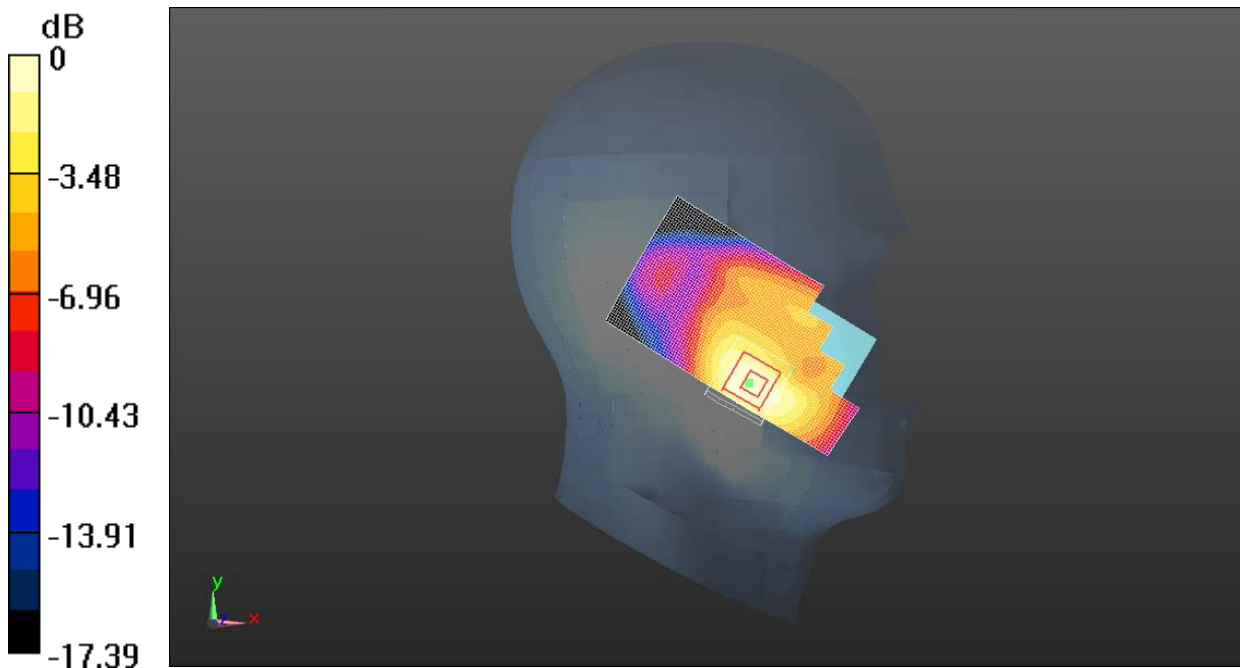Maximum value of SAR (interpolated) = 0.480 W/kg

Left Cheek Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.279 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.699 W/kg

SAR(1 g) = 0.440 W/kg; SAR(10 g) = 0.260 W/kg

Maximum value of SAR (measured) = 0.477 W/kg

0 dB = 0.477 W/kg = -3.22 dBW/kg

Fig. 24 1900 MHz CH661

GSM 1900 Left Cheek Low

Date/Time: 2/23/2013

Electronics: DAE4 Sn786

Medium: Head 1900

Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.395 S/m; ε_r = 39.335; ρ = 1000 kg/m^3

Ambient Temperature:22.0^{o}C   Liquid Temperature: 21.5^{o}C

Communication System: GSM Frequency: 1850.2 MHz Duty Cycle: 1:8.30042

Probe: ES3DV3 - SN3151 ConvF(5.06, 5.06, 5.06); Calibrated: 4/24/2012

Left Cheek Low /Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 7.462 V/m; Power Drift = 0.03 dB

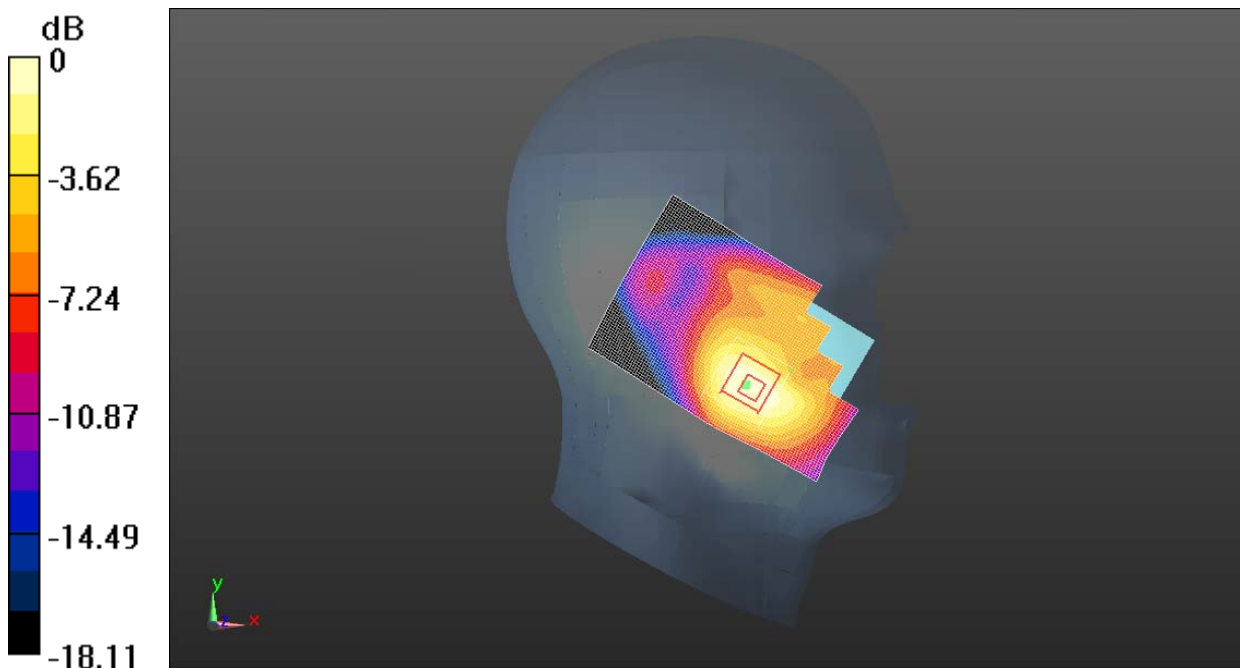Maximum value of SAR (interpolated) = 0.720 W/kg

Left Cheek Low /Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.462 V/m; Power Drift = 0.03 dB

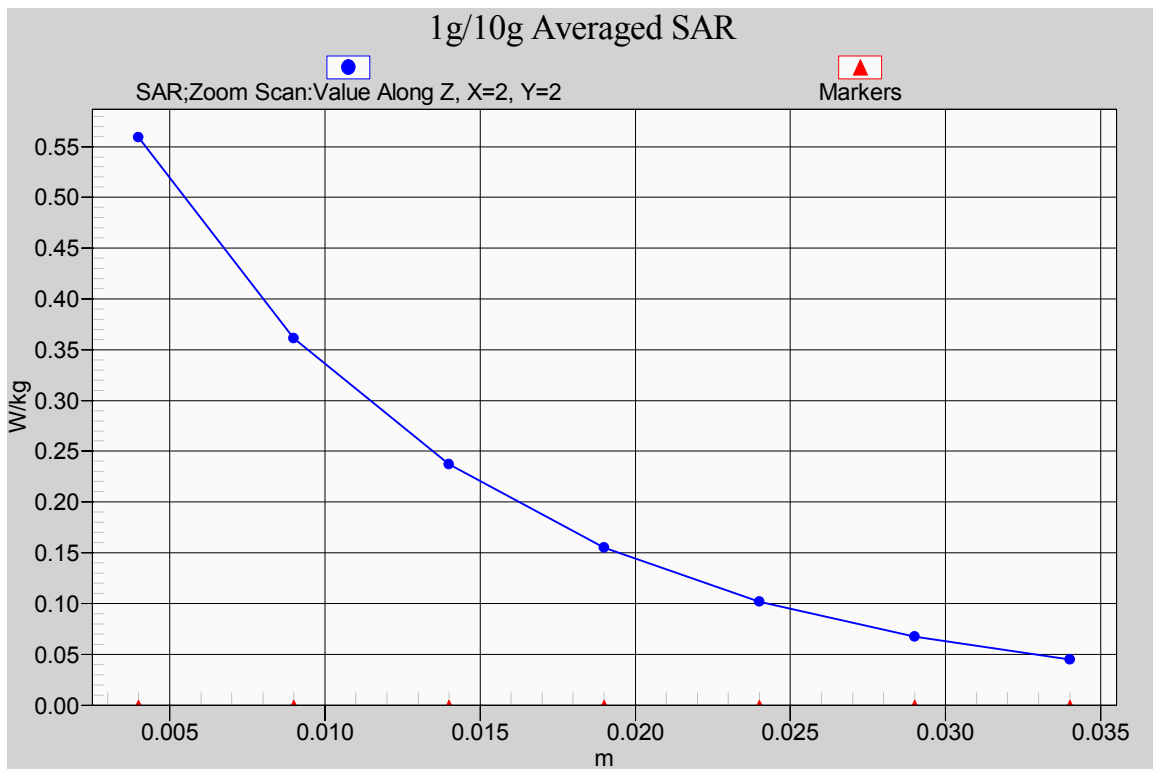Peak SAR (extrapolated) = 1.12 W/kg

SAR(1 g) = 0.679 W/kg; SAR(10 g) = 0.378 W/kg

Maximum value of SAR (measured) = 0.708 W/kg

0 dB = 0.708 W/kg = -1.50 dBW/kg

Fig. 25 1900 MHz CH512

Fig. 25-1 Z-Scan at power reference point (1900 MHz CH512)

GSM 1900 Left Tilt High

Date/Time: 2/23/2013

Electronics: DAE4 Sn786

Medium: Head 1900

Medium parameters used: f = 1910 MHz; σ = 1.451 S/m; ε_r = 39.149; ρ = 1000 kg/m^3

Ambient Temperature:22.0^{o}C   Liquid Temperature: 21.5^{o}C

Communication System: GSM Frequency: 1910 MHz Duty Cycle: 1:8.30042

Probe: ES3DV3 - SN3151 ConvF(5.06, 5.06, 5.06); Calibrated: 4/24/2012

Left Tilt High/Area Scan (51x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 10.219 V/m; Power Drift = -0.07 dB
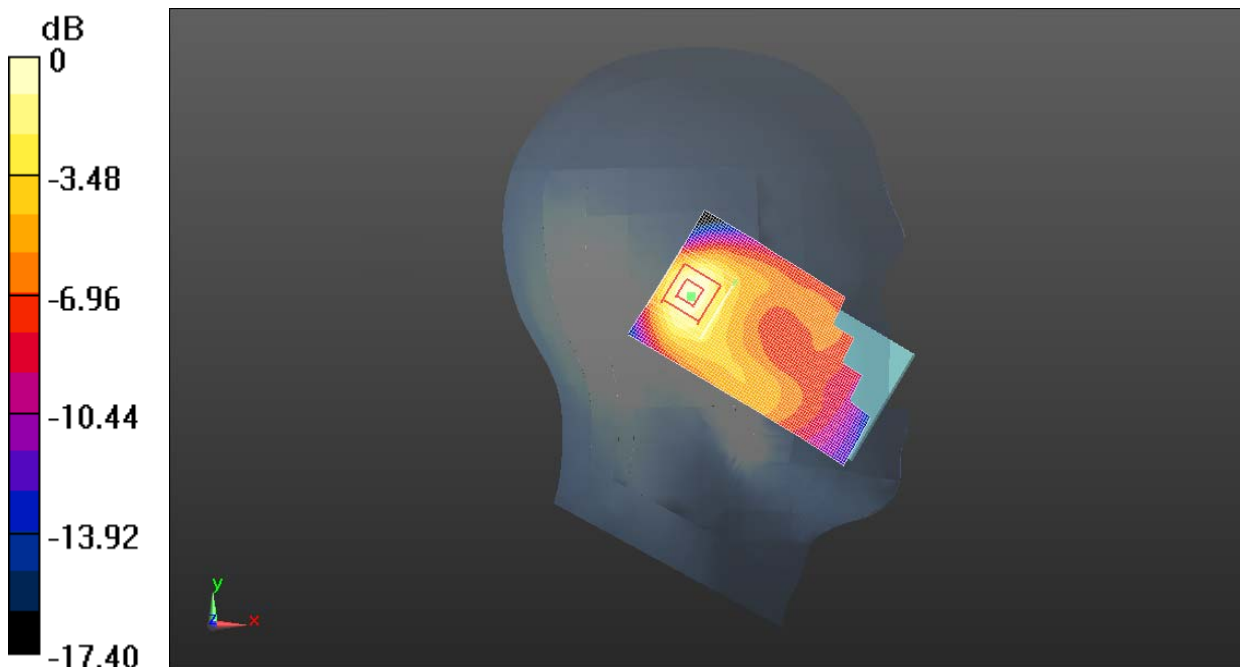
Maximum value of SAR (interpolated) = 0.184 W/kg

Left Tilt High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.219 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.240 W/kg

SAR(1 g) = 0.157 W/kg; SAR(10 g) = 0.096 W/kg

Maximum value of SAR (measured) = 0.168 W/kg

0 dB = 0.168 W/kg = -7.73 dBW/kg

Fig. 26 1900 MHz CH810

GSM 1900 Left Tilt Middle

Date/Time: 2/23/2013

Electronics: DAE4 Sn786

Medium: Head 1900

Medium parameters used: f = 1880 MHz; σ = 1.424 S/m; $ε_r$ = 39.231; ρ = 1000 kg/m^3

Ambient Temperature:22.0^{o}C　　　Liquid Temperature: 21.5^{o}C

Communication System: GSM Frequency: 1880 MHz Duty Cycle: 1:8.30042

Probe: ES3DV3 - SN3151 ConvF(5.06, 5.06, 5.06); Calibrated: 4/24/2012

Left Tilt Middle/Area Scan (51x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 10.347 V/m; Power Drift = 0.02 dB

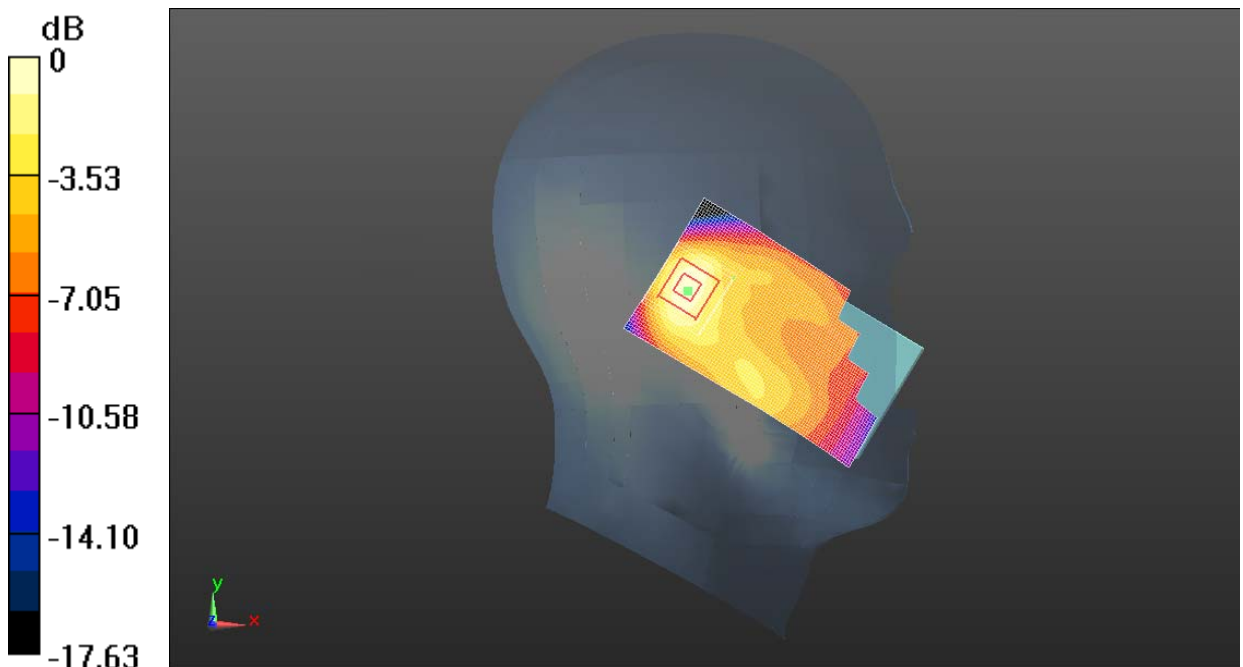Maximum value of SAR (interpolated) = 0.185 W/kg

Left Tilt Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.347 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.244 W/kg

SAR(1 g) = 0.160 W/kg; SAR(10 g) = 0.099 W/kg

Maximum value of SAR (measured) = 0.170 W/kg

0 dB = 0.170 W/kg = -7.69 dBW/kg

Fig. 27 1900 MHz CH661

GSM 1900 Left Tilt Low
Date/Time: 2/23/2013
Electronics: DAE4 Sn786
Medium: Head 1900
Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.395 S/m; ε_r = 39.335; ρ = 1000 kg/m^3
Ambient Temperature:22.0^{o}C   Liquid Temperature: 21.5^{o}C
Communication System: GSM Frequency: 1850.2 MHz Duty Cycle: 1:8.30042
Probe: ES3DV3 - SN3151 ConvF(5.06, 5.06, 5.06); Calibrated: 4/24/2012

Left Tilt Low/Area Scan (51x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 11.232 V/m; Power Drift = 0.09 dB
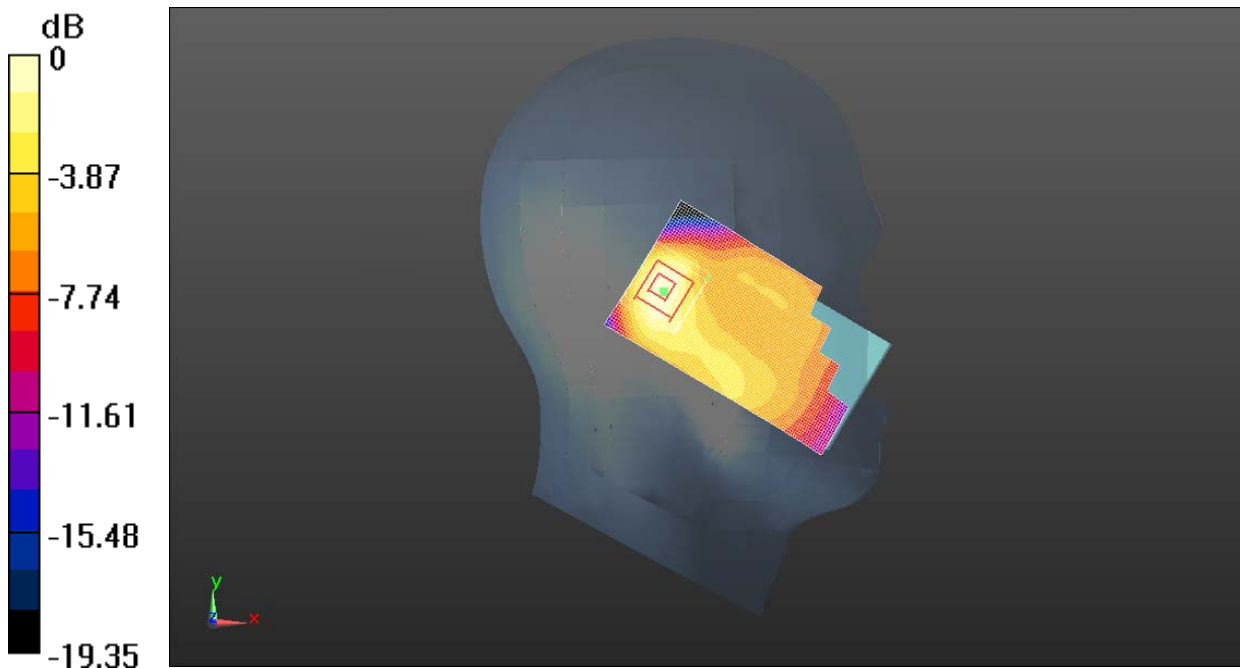Maximum value of SAR (interpolated) = 0.215 W/kg

Left Tilt Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.232 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.280 W/kg
SAR(1 g) = 0.187 W/kg; SAR(10 g) = 0.115 W/kg
Maximum value of SAR (measured) = 0.202 W/kg

0 dB = 0.202 W/kg = -6.94 dBW/kg

Fig. 28 1900 MHz CH512

GSM 1900 Right Cheek High

Date/Time: 2/23/2013
Electronics: DAE4 Sn786
Medium: Head 1900
Medium parameters used: f = 1910 MHz; σ = 1.451 S/m; ε_r = 39.149; ρ = 1000 kg/m^3
Ambient Temperature:22.0^{o}C   Liquid Temperature: 21.5^{o}C
Communication System: GSM Frequency: 1910 MHz Duty Cycle: 1:8.30042
Probe: ES3DV3 - SN3151 ConvF(5.06, 5.06, 5.06); Calibrated: 4/24/2012

Right Cheek High/Area Scan (51x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 6.532 V/m; Power Drift = -0.13 dB
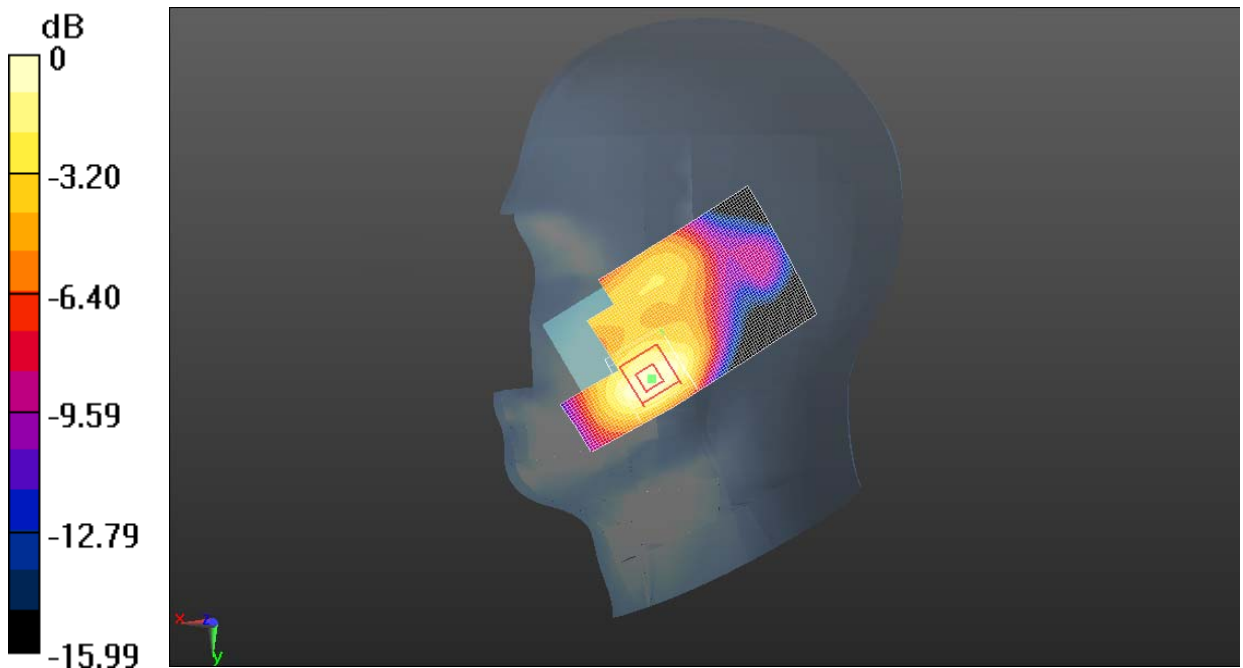Maximum value of SAR (interpolated) = 0.447 W/kg

Right Cheek High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.532 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.662 W/kg
SAR(1 g) = 0.392 W/kg; SAR(10 g) = 0.217 W/kg
Maximum value of SAR (measured) = 0.434 W/kg

0 dB = 0.434 W/kg = -3.63 dBW/kg

Fig. 29 1900 MHz CH810

GSM 1900 Right Cheek Middle

Date/Time: 2/23/2013

Electronics: DAE4 Sn786

Medium: Head 1900

Medium parameters used: f = 1880 MHz; σ = 1.424 S/m; ε_r = 39.231; ρ = 1000 kg/m^3

Ambient Temperature:22.0^{o}C   Liquid Temperature: 21.5^{o}C

Communication System: GSM Frequency: 1880 MHz Duty Cycle: 1:8.30042

Probe: ES3DV3 - SN3151 ConvF(5.06, 5.06, 5.06); Calibrated: 4/24/2012

Right Cheek Middle/Area Scan (51x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 7.000 V/m; Power Drift = 0.14 dB

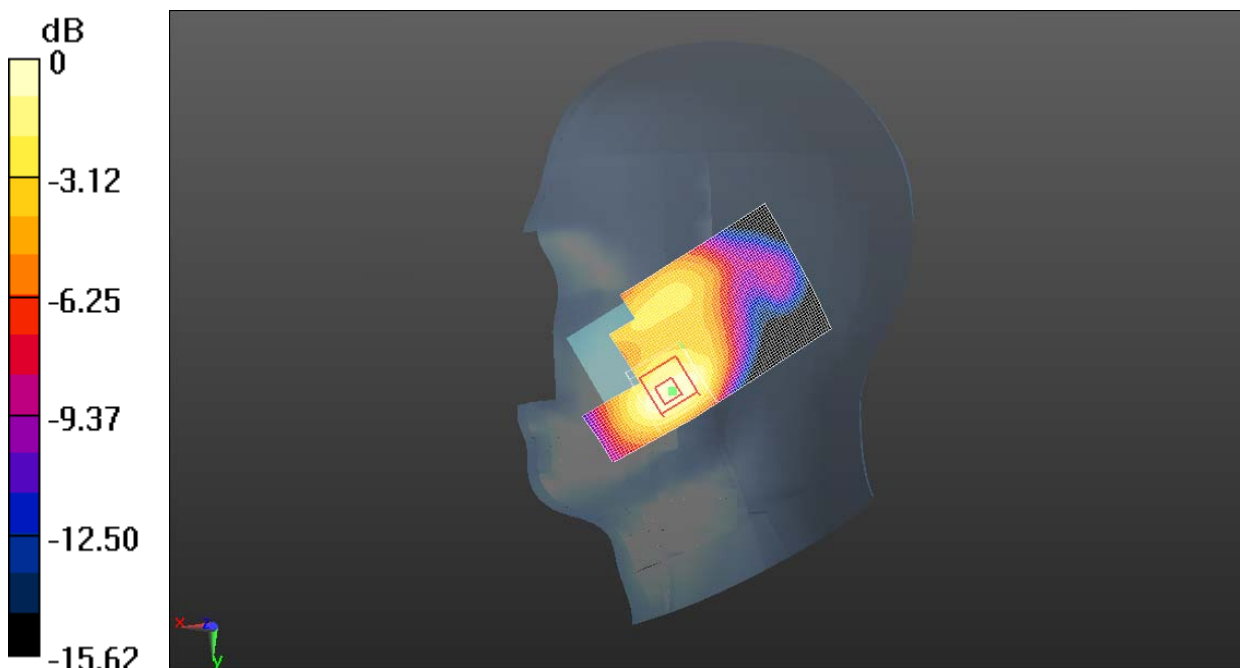Maximum value of SAR (interpolated) = 0.570 W/kg

Right Cheek Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.000 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.885 W/kg

SAR(1 g) = 0.523 W/kg; SAR(10 g) = 0.290 W/kg

Maximum value of SAR (measured) = 0.579 W/kg

0 dB = 0.579 W/kg = -2.37 dBW/kg

Fig. 30 1900 MHz CH661

GSM 1900 Right Cheek Low

Date/Time: 2/23/2013

Electronics: DAE4 Sn786

Medium: Head 1900

Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.395 S/m; ε_r = 39.335; ρ = 1000 kg/m^3

Ambient Temperature:22.0^{o}C   Liquid Temperature: 21.5^{o}C

Communication System: GSM Frequency: 1850.2 MHz Duty Cycle: 1:8.30042

Probe: ES3DV3 - SN3151 ConvF(5.06, 5.06, 5.06); Calibrated: 4/24/2012

Right Cheek Low/Area Scan (51x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 7.457 V/m; Power Drift = -0.03 dB

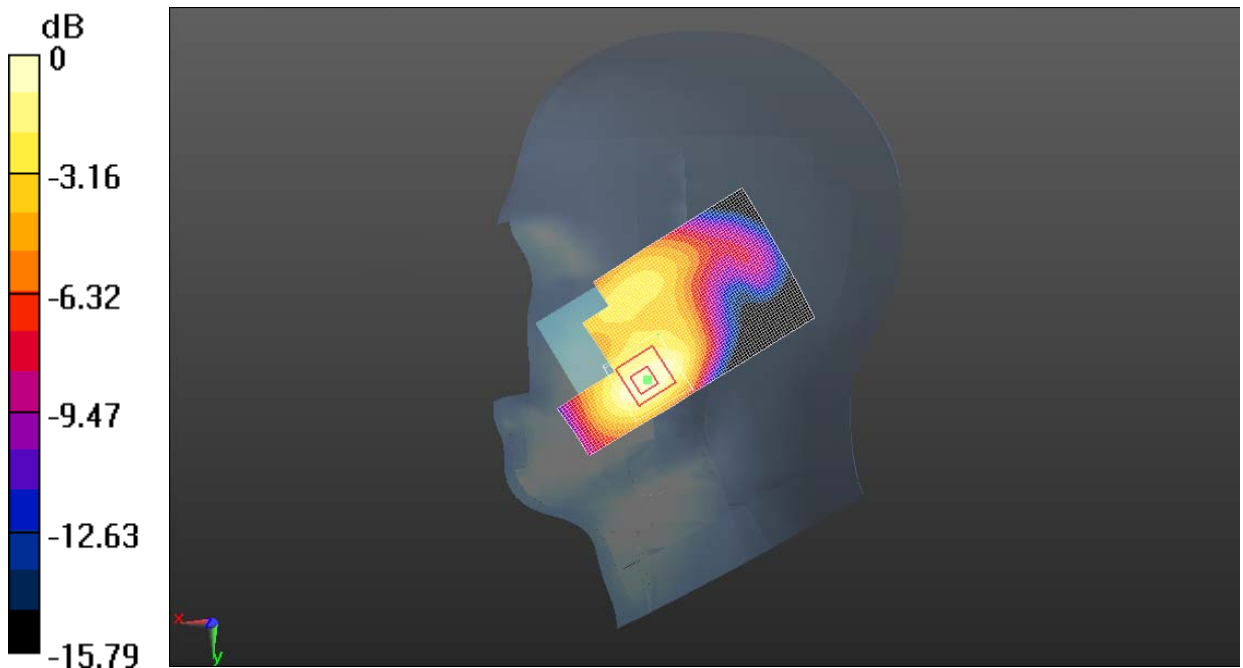Maximum value of SAR (interpolated) = 0.597 W/kg

Right Cheek Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.457 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.922 W/kg

SAR(1 g) = 0.551 W/kg; SAR(10 g) = 0.306 W/kg

Maximum value of SAR (measured) = 0.604 W/kg

0 dB = 0.604 W/kg = -2.19 dBW/kg

Fig. 31 1900 MHz CH512

1900 Right Tilt High

Date/Time: 2/23/2013

Electronics: DAE4 Sn786

Medium: Head 1900

Medium parameters used: f = 1910 MHz; σ = 1.451 S/m; $ε_r$ = 39.149; ρ = 1000 kg/m³

Ambient Temperature:22.0°C   Liquid Temperature: 21.5°C

Communication System: GSM Frequency: 1910 MHz Duty Cycle: 1:8.30042

Probe: ES3DV3 - SN3151 ConvF(5.06, 5.06, 5.06); Calibrated: 4/24/2012

Right Tilt High/Area Scan (51x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 10.146 V/m; Power Drift = 0.01 dB

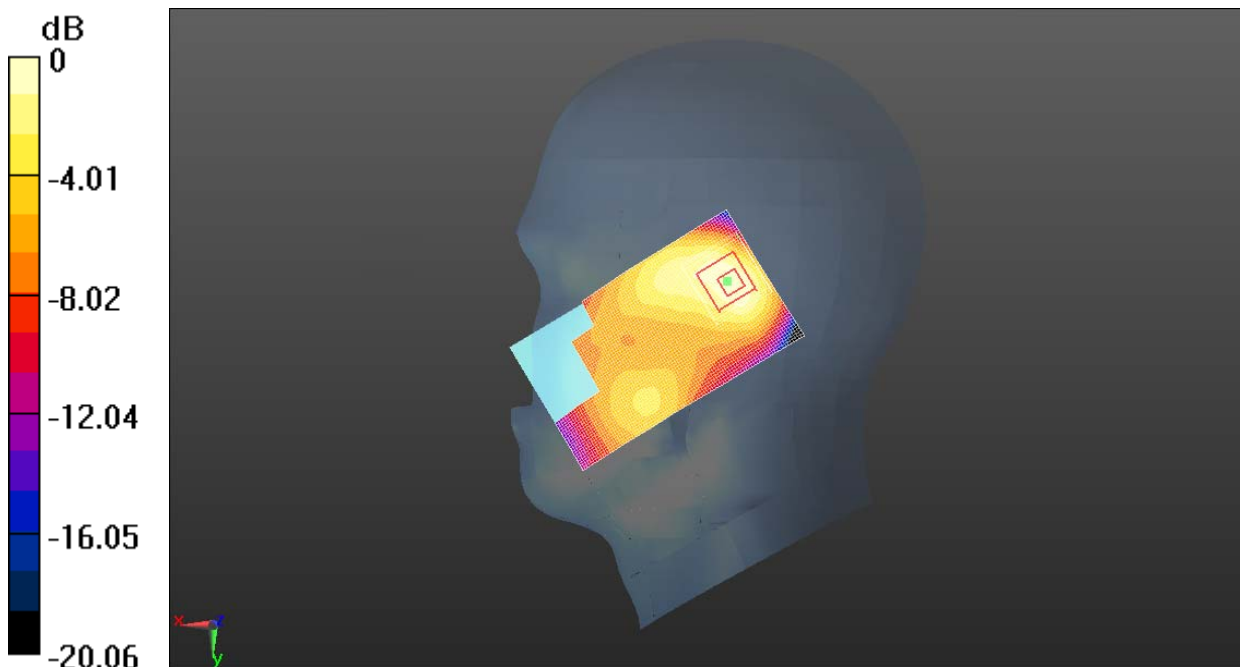Maximum value of SAR (interpolated) = 0.254 W/kg

Right Tilt High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.146 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.341 W/kg

SAR(1 g) = 0.219 W/kg; SAR(10 g) = 0.132 W/kg

Maximum value of SAR (measured) = 0.237 W/kg

0 dB = 0.237 W/kg = -6.26 dBW/kg

Fig. 32 1900 MHz CH810

1900 Right Tilt Middle

Date/Time: 2/23/2013

Electronics: DAE4 Sn786

Medium: Head 1900

Medium parameters used: f = 1880 MHz; σ = 1.424 S/m; ε_r = 39.231; ρ = 1000 kg/m^3

Ambient Temperature:22.0^{o}C   Liquid Temperature: 21.5^{o}C

Communication System: GSM Frequency: 1880 MHz Duty Cycle: 1:8.30042

Probe: ES3DV3 - SN3151 ConvF(5.06, 5.06, 5.06); Calibrated: 4/24/2012

Right Tilt Middle/Area Scan (51x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 10.461 V/m; Power Drift = 0.03 dB

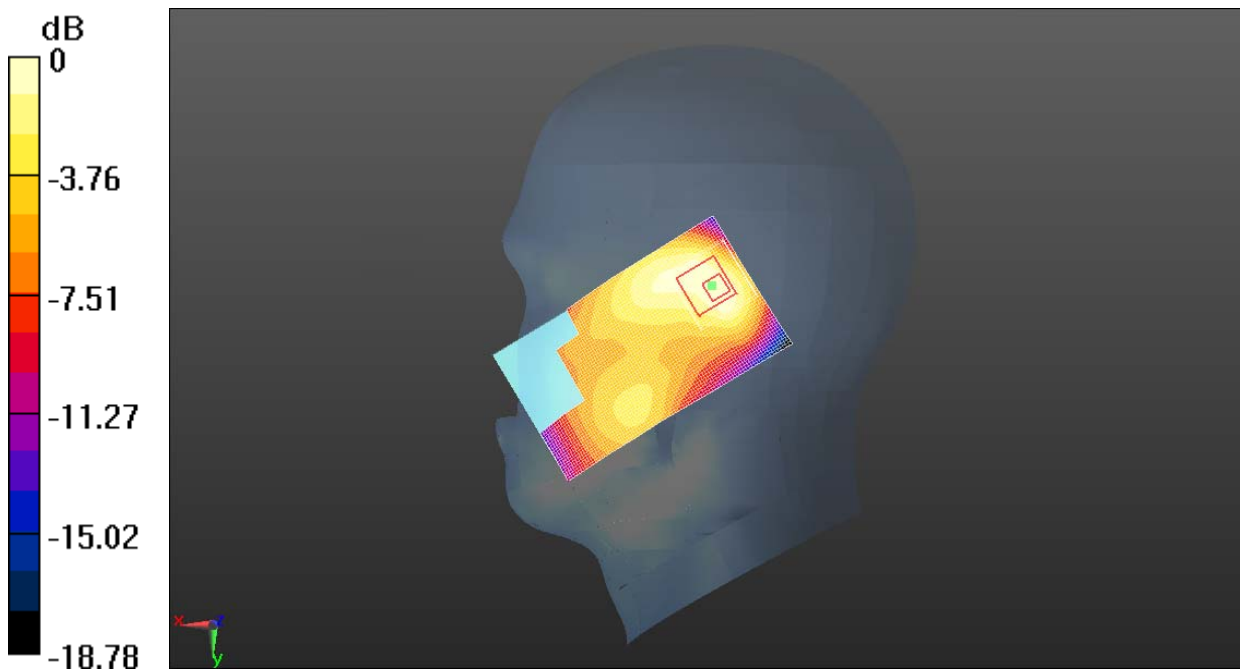Maximum value of SAR (interpolated) = 0.258 W/kg

Right Tilt Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.461 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.349 W/kg

SAR(1 g) = 0.227 W/kg; SAR(10 g) = 0.138 W/kg

Maximum value of SAR (measured) = 0.246 W/kg

0 dB = 0.246 W/kg = -6.10 dBW/kg

Fig.33 1900 MHz CH661

1900 Right Tilt Low

Date/Time: 2/23/2013

Electronics: DAE4 Sn786

Medium: Head 1900

Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.395 S/m; ε_r = 39.335; ρ = 1000 kg/m^3

Ambient Temperature:22.0^{o}C   Liquid Temperature: 21.5^{o}C

Communication System: GSM Frequency: 1850.2 MHz Duty Cycle: 1:8.30042

Probe: ES3DV3 - SN3151 ConvF(5.06, 5.06, 5.06); Calibrated: 4/24/2012

Right Tilt Low/Area Scan (51x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 11.603 V/m; Power Drift = -0.01 dB

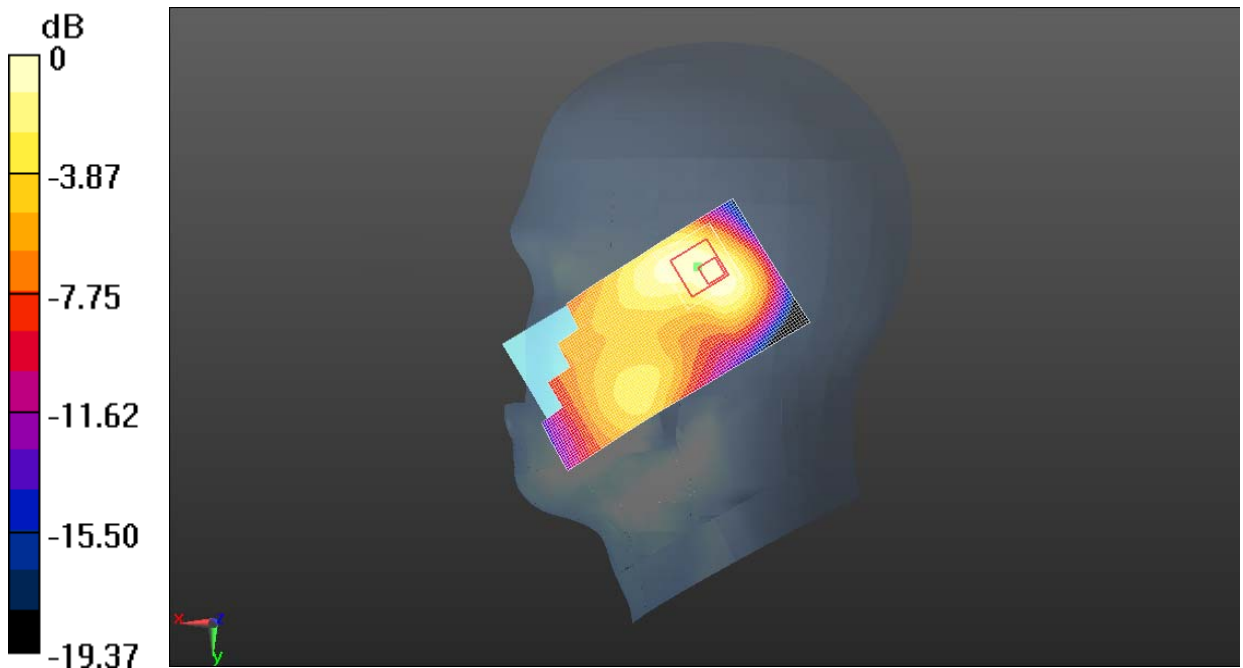Maximum value of SAR (interpolated) = 0.293 W/kg

Right Tilt Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.603 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.384 W/kg

SAR(1 g) = 0.254 W/kg; SAR(10 g) = 0.157 W/kg

Maximum value of SAR (measured) = 0.275 W/kg

0 dB = 0.275 W/kg = -5.60 dBW/kg

Fig. 34 1900 MHz CH512

1900 Body Toward Phantom Middle with GPRS

Date/Time: 2/24/2013

Electronics: DAE4 Sn786

Medium: Body 1900MHz

Medium parameters used: f = 1880 MHz; σ = 1.552 S/m; ε_r = 52.4; ρ = 1000 kg/m^3

Ambient Temperature: 21.6^{o}C   Liquid Temperature: 21.1^{o}C

Communication System: 4 slot GPRS Frequency: 1880 MHz Duty Cycle: 1:2.08018

Probe: ES3DV3 - SN3151 ConvF(4.7, 4.7, 4.7); Calibrated: 4/24/2012

Towards Phantom Middle/Area Scan (51x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 13.055 V/m; Power Drift = -0.01 dB

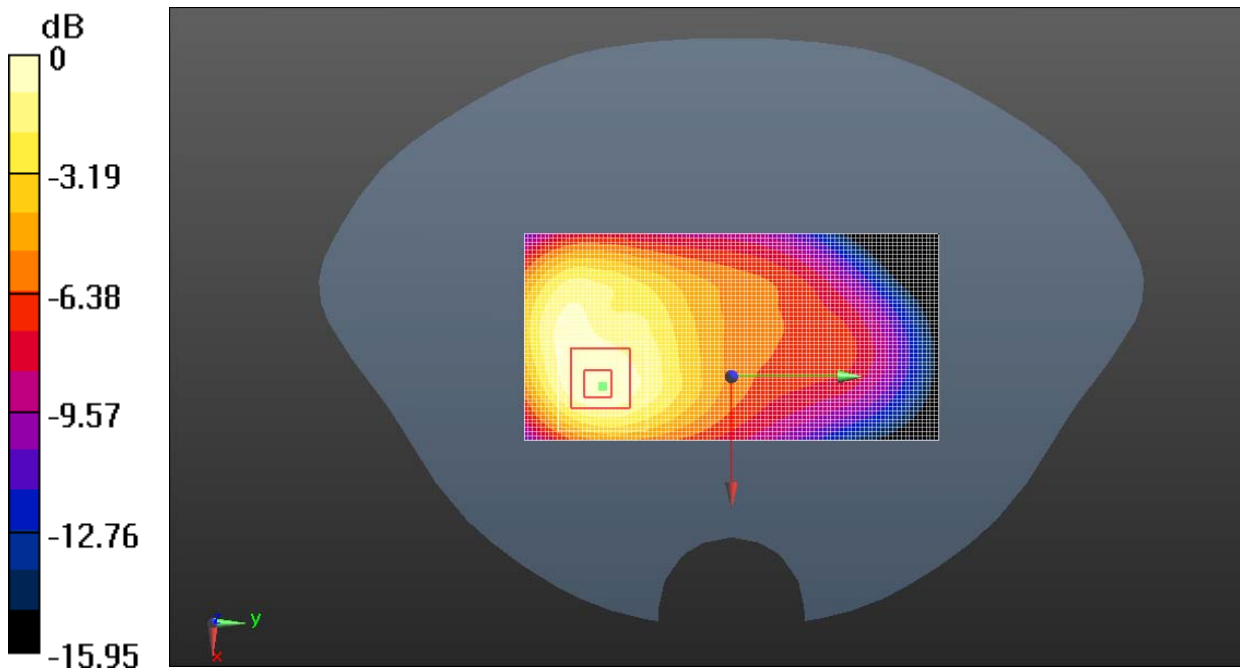Maximum value of SAR (interpolated) = 0.624 W/kg

Towards Phantom Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.055 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.846 W/kg

SAR(1 g) = 0.530 W/kg; SAR(10 g) = 0.316 W/kg

Maximum value of SAR (measured) = 0.574 W/kg

0 dB = 0.574 W/kg = -2.41 dBW/kg

Fig. 35 1900 MHz CH661

1900 Body Toward Ground Middle with GPRS

Date/Time: 2/24/2013

Electronics: DAE4 Sn786

Medium: Body 1900MHz

Medium parameters used: f = 1880 MHz; σ = 1.552 S/m; ε_r = 52.4; ρ = 1000 kg/m^3

Ambient Temperature:21.6^{o}C   Liquid Temperature: 21.1^{o}C

Communication System: 4 slot GPRS Frequency: 1880 MHz Duty Cycle: 1:2.08018

Probe: ES3DV3 - SN3151 ConvF(4.7, 4.7, 4.7); Calibrated: 4/24/2012

Towards Groudn Middle /Area Scan (51x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 17.618 V/m; Power Drift = 0.05 dB

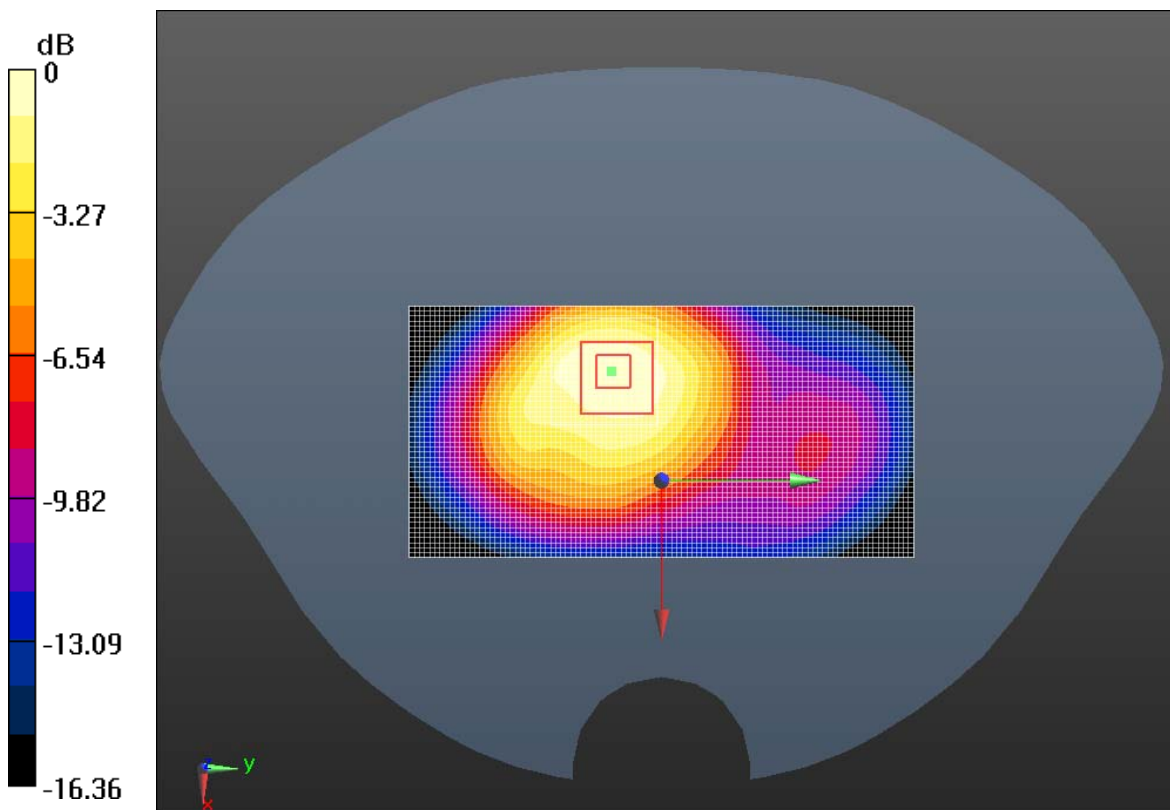Maximum value of SAR (interpolated) = 0.737 W/kg

Towards Groudn Middle /Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.618 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.646 W/kg; SAR(10 g) = 0.391 W/kg

Maximum value of SAR (measured) = 0.700 W/kg

0 dB = 0.700 W/kg = -1.55 dBW/kg

Fig. 36 1900 MHz CH661

1900 Body Left Side Middle with GPRS

Date/Time: 2/24/2013

Electronics: DAE4 Sn786

Medium: Body 1900MHz

Medium parameters used: f = 1880 MHz; σ = 1.552 S/m; $ε_r$ = 52.4; ρ = 1000 kg/m^3

Ambient Temperature:21.6^{o}C   Liquid Temperature: 21.1^{o}C

Communication System: 4 slot GPRS Frequency: 1880 MHz Duty Cycle: 1:2.08018

Probe: ES3DV3 - SN3151 ConvF(4.7, 4.7, 4.7); Calibrated: 4/24/2012

Left Side Middle/Area Scan (41x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 5.370 V/m; Power Drift = 0.19 dB

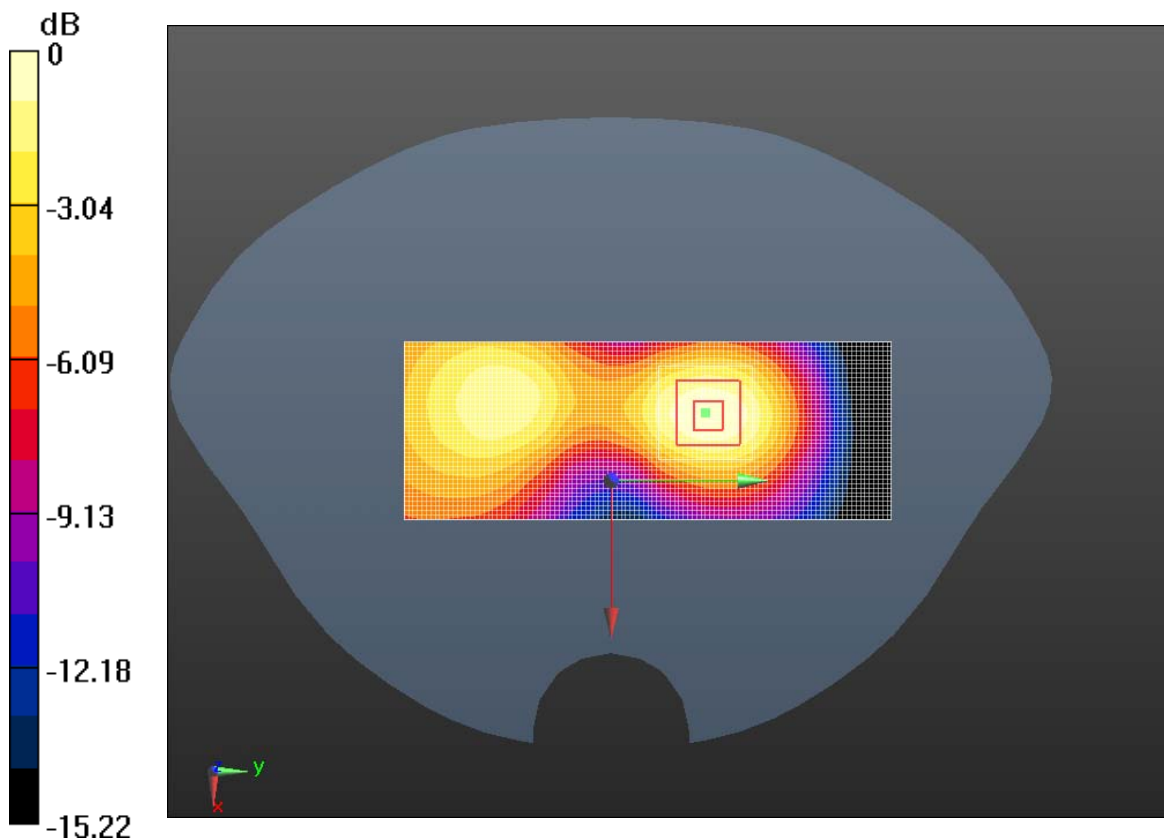Maximum value of SAR (interpolated) = 0.148 W/kg

Left Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.370 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.205 W/kg

SAR(1 g) = 0.132 W/kg; SAR(10 g) = 0.079 W/kg

Maximum value of SAR (measured) = 0.144 W/kg

0 dB = 0.144 W/kg = -8.42 dBW/kg

Fig. 37 1900 MHz CH661

1900 Body Right Side Middle with GPRS

Date/Time: 2/24/2013

Electronics: DAE4 Sn786

Medium: Body 1900MHz

Medium parameters used: f = 1880 MHz; σ = 1.552 S/m; ε_r = 52.4; ρ = 1000 kg/m^3

Ambient Temperature:21.6^{o}C　　　Liquid Temperature: 21.1^{o}C

Communication System: 4 slot GPRS Frequency: 1880 MHz Duty Cycle: 1:2.08018

Probe: ES3DV3 - SN3151 ConvF(4.7, 4.7, 4.7); Calibrated: 4/24/2012

Right Side Middle/Area Scan (41x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 5.448 V/m; Power Drift = 0.16 dB

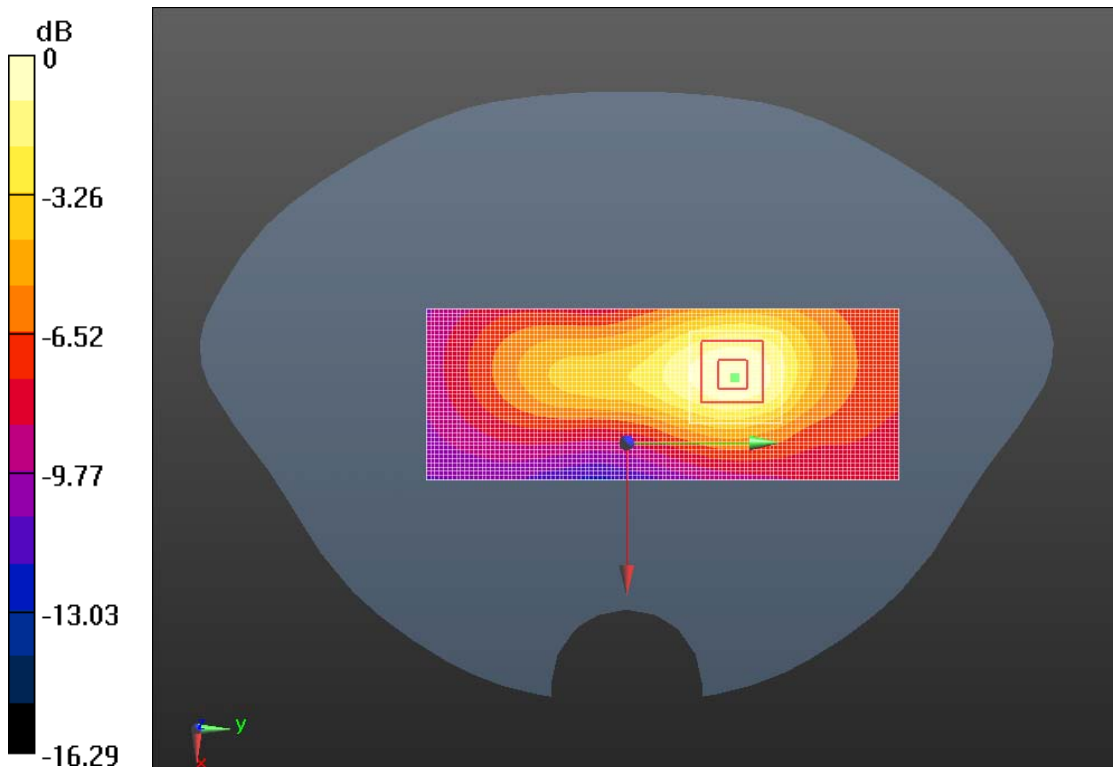Maximum value of SAR (interpolated) = 0.110 W/kg

Right Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.448 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.153 W/kg

SAR(1 g) = 0.096 W/kg; SAR(10 g) = 0.057 W/kg

Maximum value of SAR (measured) = 0.106 W/kg

0 dB = 0.106 W/kg = -9.76 dBW/kg

Fig. 38 1900 MHz CH661

1900 Body Bottom Side High with GPRS

Date/Time: 2/24/2013

Electronics: DAE4 Sn786

Medium: Body 1900MHz

Medium parameters used: f = 1910 MHz; σ = 1.579 S/m; ε_r = 52.359; ρ = 1000 kg/m³

Ambient Temperature:21.6°C   Liquid Temperature: 21.1°C

Communication System: 4 slot GPRS Frequency: 1909.8 MHz Duty Cycle: 1:2.08018

Probe: ES3DV3 - SN3151 ConvF(4.7, 4.7, 4.7); Calibrated: 4/24/2012

Bottom Side High/Area Scan (41x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 14.764 V/m; Power Drift = 0.14 dB

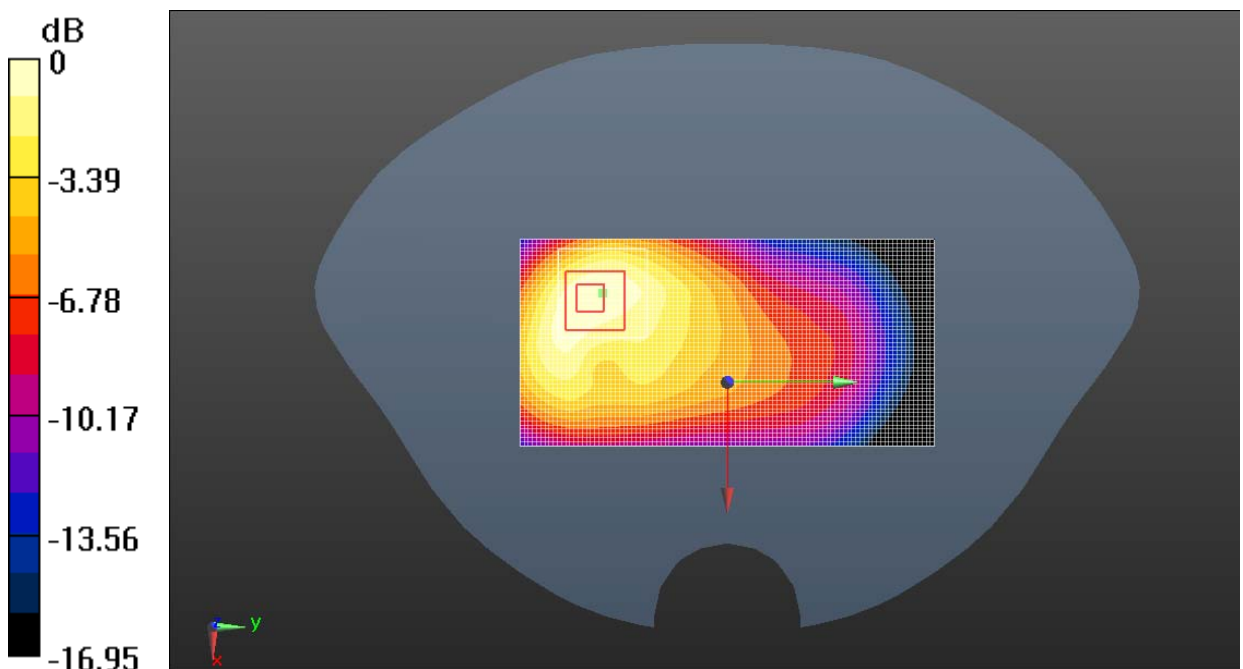Maximum value of SAR (interpolated) = 0.842 W/kg

Bottom Side High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.764 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.26 W/kg

SAR(1 g) = 0.751 W/kg; SAR(10 g) = 0.399 W/kg

Maximum value of SAR (measured) = 0.858 W/kg

0 dB = 0.858 W/kg = -0.67 dBW/kg

Fig. 39 1900 MHz CH810

1900 Body Bottom Side Middle with GPRS

Date/Time: 2/24/2013

Electronics: DAE4 Sn786

Medium: Body 1900MHz

Medium parameters used: f = 1880 MHz; σ = 1.552 S/m; ε_r = 52.4; ρ = 1000 kg/m^3

Ambient Temperature:21.6^{o}C   Liquid Temperature: 21.1^{o}C

Communication System: 4 slot GPRS Frequency: 1880 MHz Duty Cycle: 1:2.08018

Probe: ES3DV3 - SN3151 ConvF(4.7, 4.7, 4.7); Calibrated: 4/24/2012

Bottom Side Middle/Area Scan (41x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 15.089 V/m; Power Drift = 0.11 dB

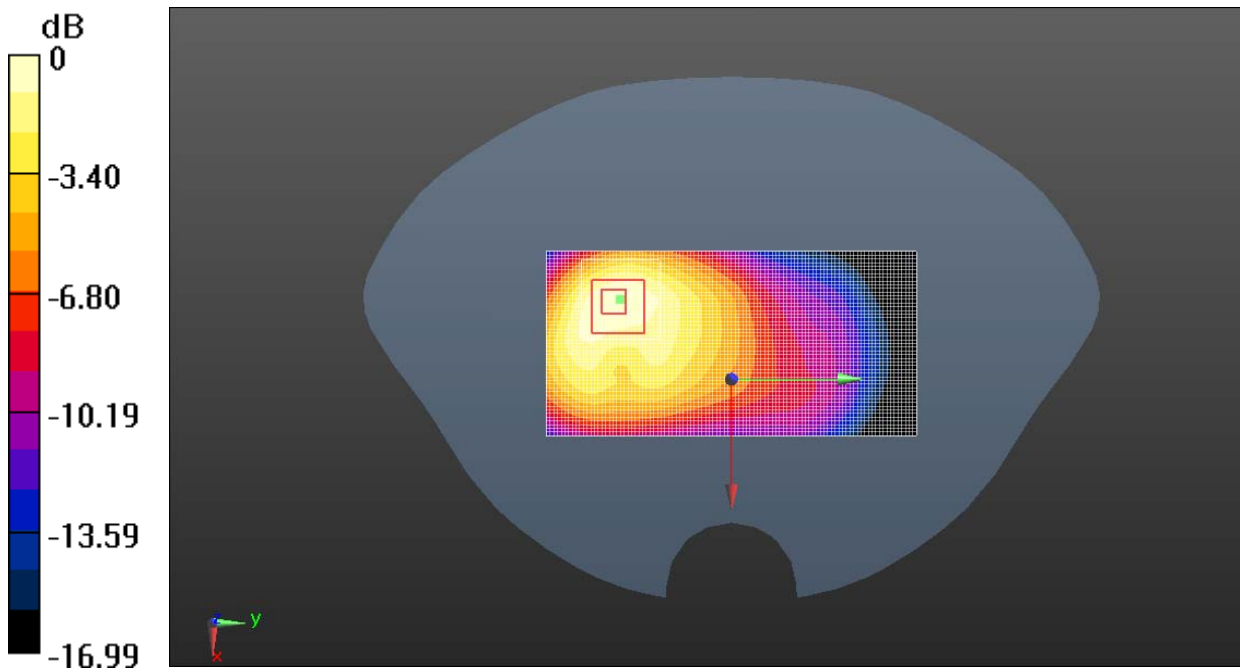Maximum value of SAR (interpolated) = 0.861 W/kg

Bottom Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.089 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.763 W/kg; SAR(10 g) = 0.406 W/kg

Maximum value of SAR (measured) = 0.874 W/kg

0 dB = 0.874 W/kg = -0.58 dBW/kg

Fig. 40 1900 MHz CH661

1900 Body Bottom Side Low with GPRS

Date/Time: 2/24/2013

Electronics: DAE4 Sn786

Medium: Body 1900MHz

Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.525 S/m; ε_r = 52.488; ρ = 1000 kg/m^3

Ambient Temperature:21.6^{o}C   Liquid Temperature: 21.1^{o}C

Communication System: 4 slot GPRS Frequency: 1850.2 MHz Duty Cycle: 1:2.08018

Probe: ES3DV3 - SN3151 ConvF(4.7, 4.7, 4.7); Calibrated: 4/24/2012

Bottom Side Low/Area Scan (41x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 15.550 V/m; Power Drift = 0.12 dB

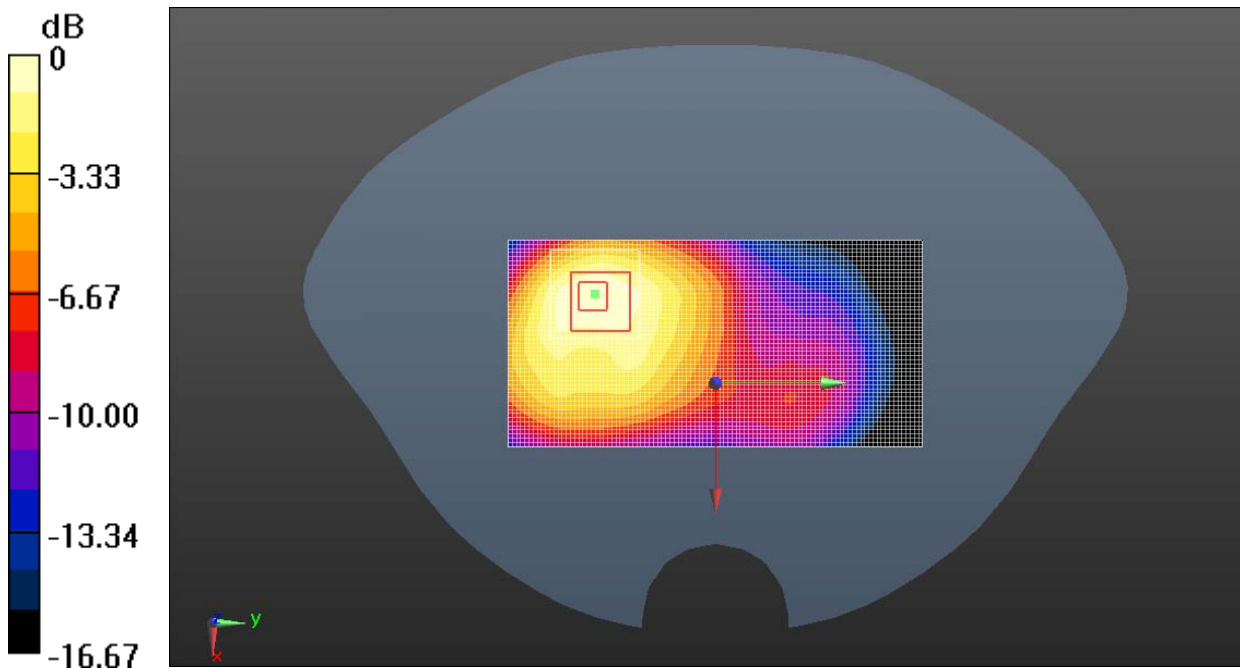Maximum value of SAR (interpolated) = 0.891 W/kg

Bottom Side Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.550 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.31 W/kg

SAR(1 g) = 0.796 W/kg; SAR(10 g) = 0.427 W/kg

Maximum value of SAR (measured) = 0.911 W/kg

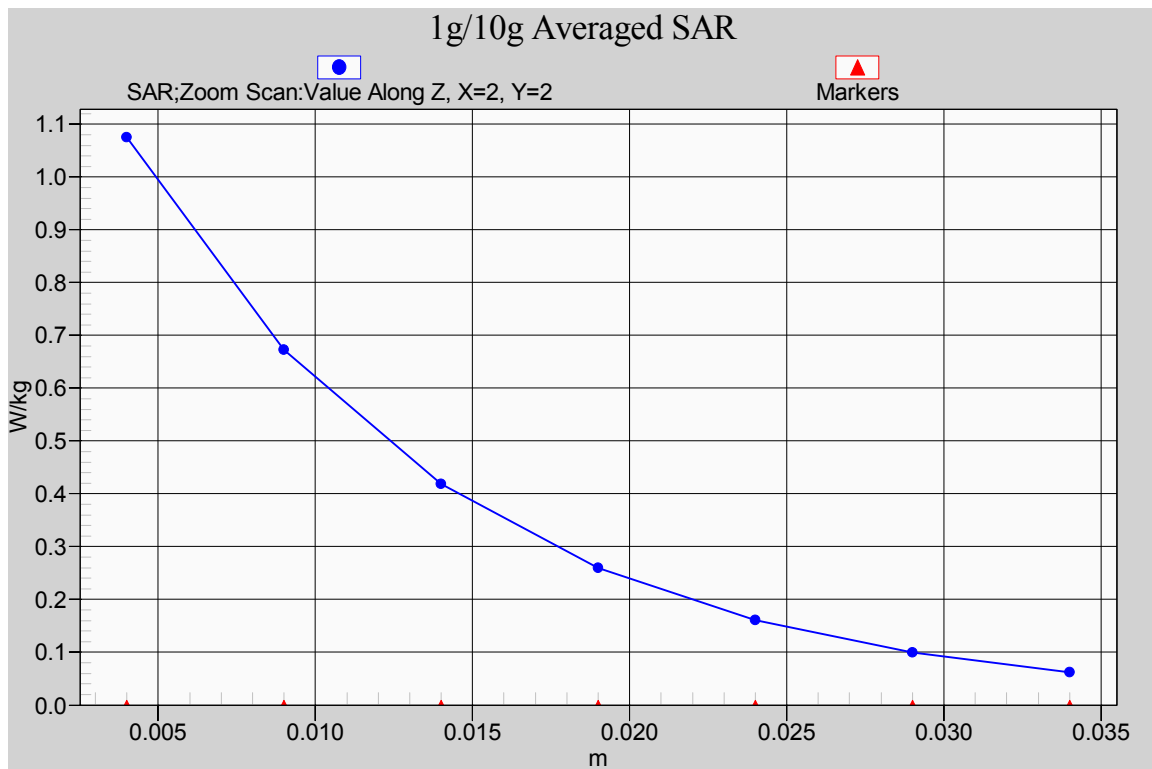0 dB = 0.911 W/kg = -0.41 dBW/kg

Fig. 41 1900 MHz CH512

Fig. 41-1 Z-Scan at power reference point (1900 MHz CH512)

1900 Body Bottom Side Low with EGPRS

Date/Time: 2/24/2013

Electronics: DAE4 Sn786

Medium: Body 1900MHz

Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.525 S/m; ε_r = 52.488; ρ = 1000 kg/m^3

Ambient Temperature:21.6^{o}C   Liquid Temperature: 21.1^{o}C

Communication System: 4 slot GPRS Frequency: 1850.2 MHz Duty Cycle: 1:2.08018

Probe: ES3DV3 - SN3151 ConvF(4.7, 4.7, 4.7); Calibrated: 4/24/2012

Bottom Side Low/Area Scan (41x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 14.736 V/m; Power Drift = 0.11 dB
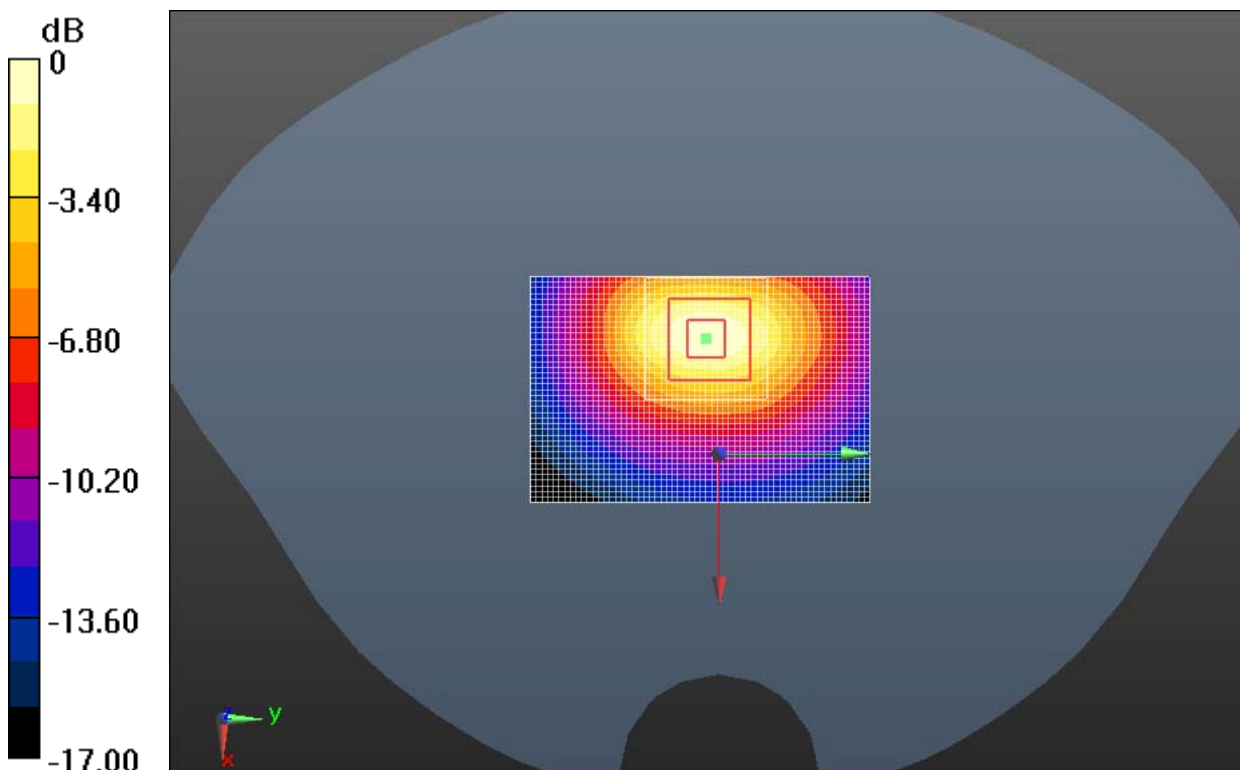
Maximum value of SAR (interpolated) = 0.821 W/kg

Bottom Side Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.736 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.17 W/kg

SAR(1 g) = 0.721 W/kg; SAR(10 g) = 0.395 W/kg.

Maximum value of SAR (measured) = 0.817 W/kg

0 dB = 0.817 W/kg = -0.88 dBW/kg

Fig. 42 1900 MHz CH512

1900 Body Bottom Side Low with Headset AE3

Date/Time: 2/24/2013

Electronics: DAE4 Sn786

Medium: Body 1900MHz

Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.525 S/m; ε_r = 52.488; ρ = 1000 kg/m^3

Ambient Temperature:21.6^{o}C   Liquid Temperature: 21.1^{o}C

Communication System: GSM Frequency: 1850.2 MHz Duty Cycle: 1:8.30042

Probe: ES3DV3 - SN3151 ConvF(4.7, 4.7, 4.7); Calibrated: 4/24/2012

Bottom Side Low _ AE3/Area Scan (41x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 20.529 V/m; Power Drift = -0.13 dB
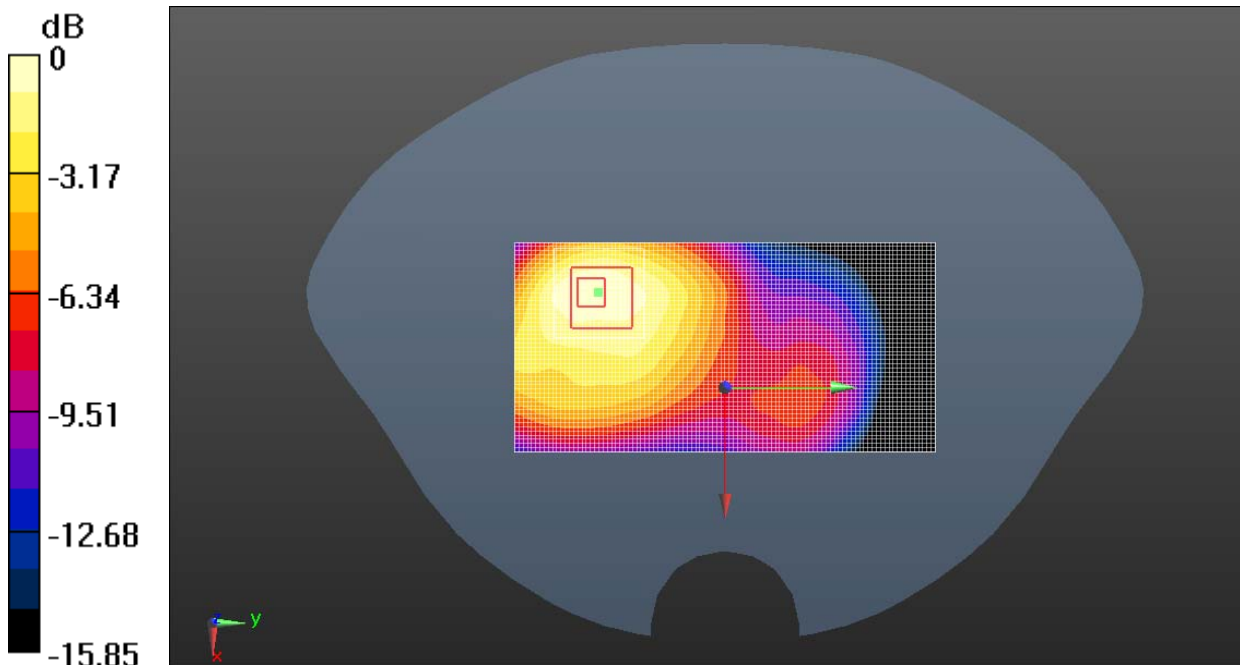
Maximum value of SAR (interpolated) = 0.807 W/kg

Bottom Side Low _ AE3/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.529 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.730 W/kg; SAR(10 g) = 0.392 W/kg

Maximum value of SAR (measured) = 0.836 W/kg

0 dB = 0.836 W/kg = -0.78 dBW/kg

Fig. 43 1900 MHz CH512

1900 Body Bottom Side Low with Headset AE4

Date/Time: 2/24/2013

Electronics: DAE4 Sn786

Medium: Body 1900MHz

Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.525 S/m; ε_r = 52.488; ρ = 1000 kg/m^3

Ambient Temperature:21.6^{o}C   Liquid Temperature: 21.1^{o}C

Communication System: GSM Frequency: 1850.2 MHz Duty Cycle: 1:8.30042

Probe: ES3DV3 - SN3151 ConvF(4.7, 4.7, 4.7); Calibrated: 4/24/2012

Bottom Side Low_ AE4/Area Scan (41x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 23.894 V/m; Power Drift = 0.04 dB
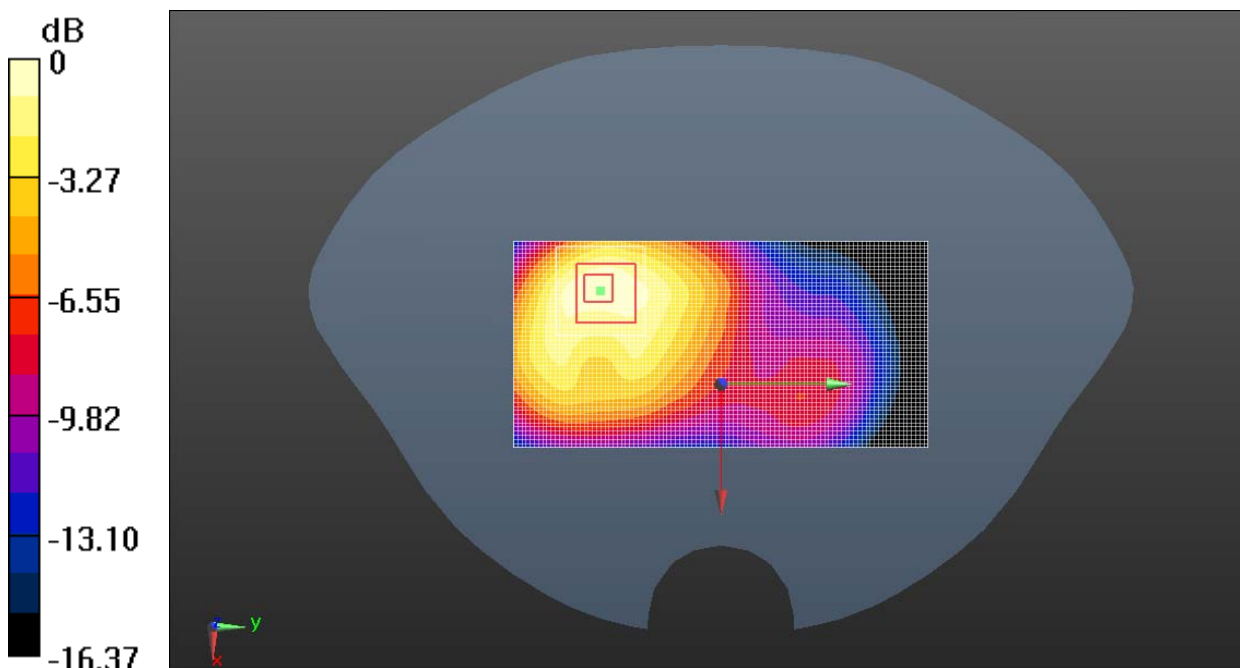
Maximum value of SAR (interpolated) = 0.856 W/kg

Bottom Side Low_ AE4/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.894 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.750 W/kg; SAR(10 g) = 0.404 W/kg

Maximum value of SAR (measured) = 0.849 W/kg

0 dB = 0.849 W/kg = -0.71 dBW/kg

Fig. 44 1900 MHz CH512

Wifi Left Cheek Middle
Date/Time: 3/11/2013
Electronics: DAE4 Sn786
Medium: Head 2450
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.847 S/m; ε_r = 40.128; ρ = 1000 kg/m^3
Ambient Temperature:21.8^{o}C   Liquid Temperature: 21.2^{o}C
Communication System: WiFi 802.11 b Frequency: 2437 MHz Duty Cycle: 1:1
Probe: ES3DV3 - SN3151 ConvF(4.44, 4.44, 4.44); Calibrated: 4/24/2012

Left Cheek Middle/Area Scan (51x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.454 V/m; Power Drift = 0.12 dB
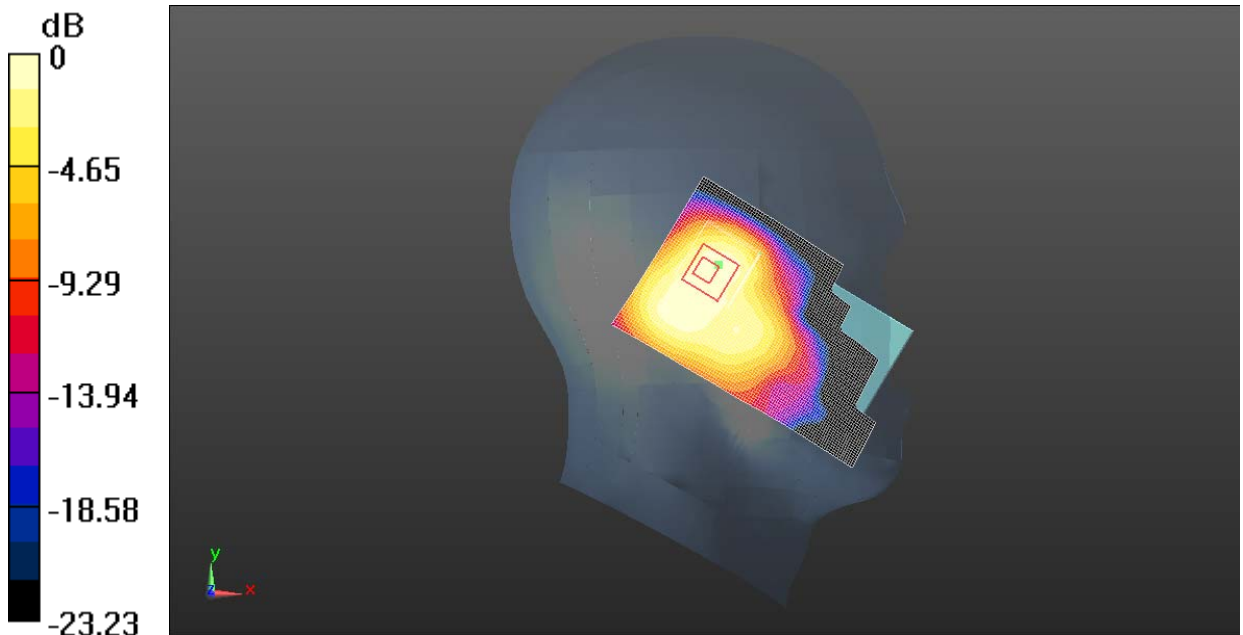Maximum value of SAR (interpolated) = 0.165 W/kg

Left Cheek Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.454 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 0.295 W/kg
SAR(1 g) = 0.162 W/kg; SAR(10 g) = 0.089 W/kg
Maximum value of SAR (measured) = 0.181 W/kg

0 dB = 0.181 W/kg = -7.43 dBW/kg

Fig.45 2450 MHz CH6

Wifi Left Tilt Middle

Date/Time: 3/11/2013

Electronics: DAE4 Sn786

Medium: Head 2450

Medium parameters used (interpolated): f = 2437 MHz; σ = 1.847 S/m; ε_r = 40.128; ρ = 1000 kg/m^3

Ambient Temperature:21.8^{o}C   Liquid Temperature: 21.2^{o}C

Communication System: WiFi 802.11 b Frequency: 2437 MHz Duty Cycle: 1:1

Probe: ES3DV3 - SN3151 ConvF(4.44, 4.44, 4.44); Calibrated: 4/24/2012

Left Tilt Middle/Area Scan (51x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 8.169 V/m; Power Drift = 0.17 dB

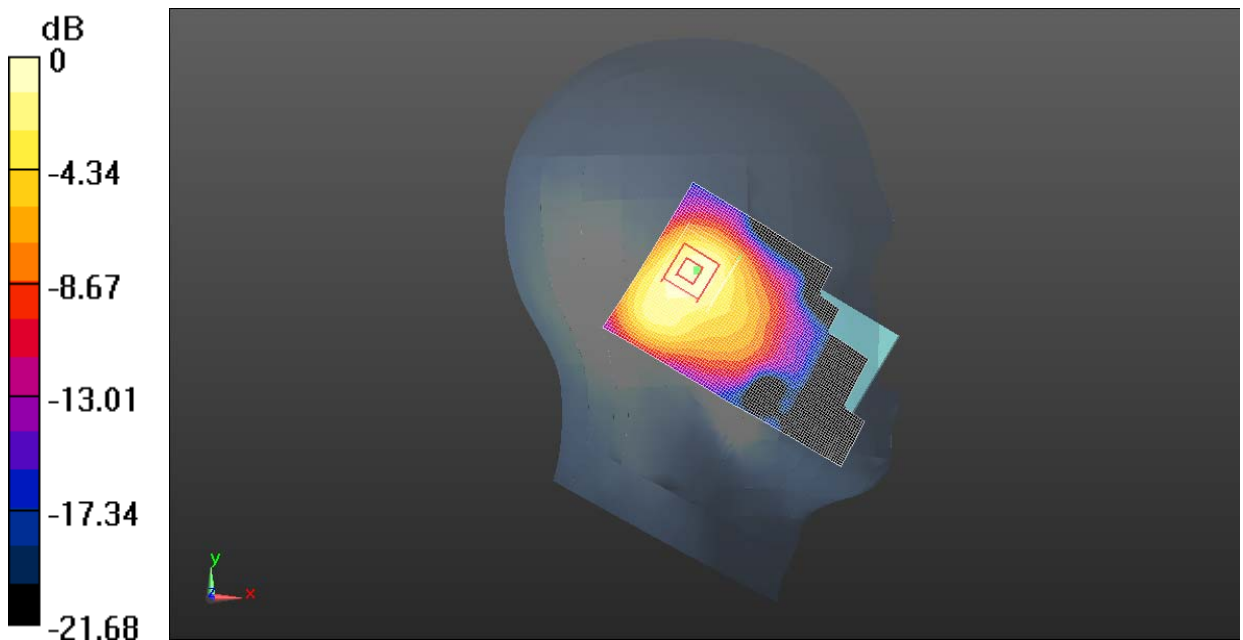Maximum value of SAR (interpolated) = 0.156 W/kg

Left Tilt Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.169 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.262 W/kg

SAR(1 g) = 0.140 W/kg; SAR(10 g) = 0.074 W/kg

Maximum value of SAR (measured) = 0.157 W/kg

0 dB = 0.157 W/kg = -8.05 dBW/kg

Fig. 46 2450 MHz CH6

Wifi Right Cheek High

Date/Time: 3/11/2013

Electronics: DAE4 Sn786

Medium: Head 2450

Medium parameters used: f = 2472 MHz; σ = 1.892 S/m; ε_r = 40.019; ρ = 1000 kg/m^3

Ambient Temperature:21.8^{o}C   Liquid Temperature: 21.2^{o}C

Communication System: WiFi 802.11 b Frequency: 2462 MHz Duty Cycle: 1:1

Probe: ES3DV3 - SN3151 ConvF(4.44, 4.44, 4.44); Calibrated: 4/24/2012

Right Cheek High/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 7.968 V/m; Power Drift = 0.19 dB

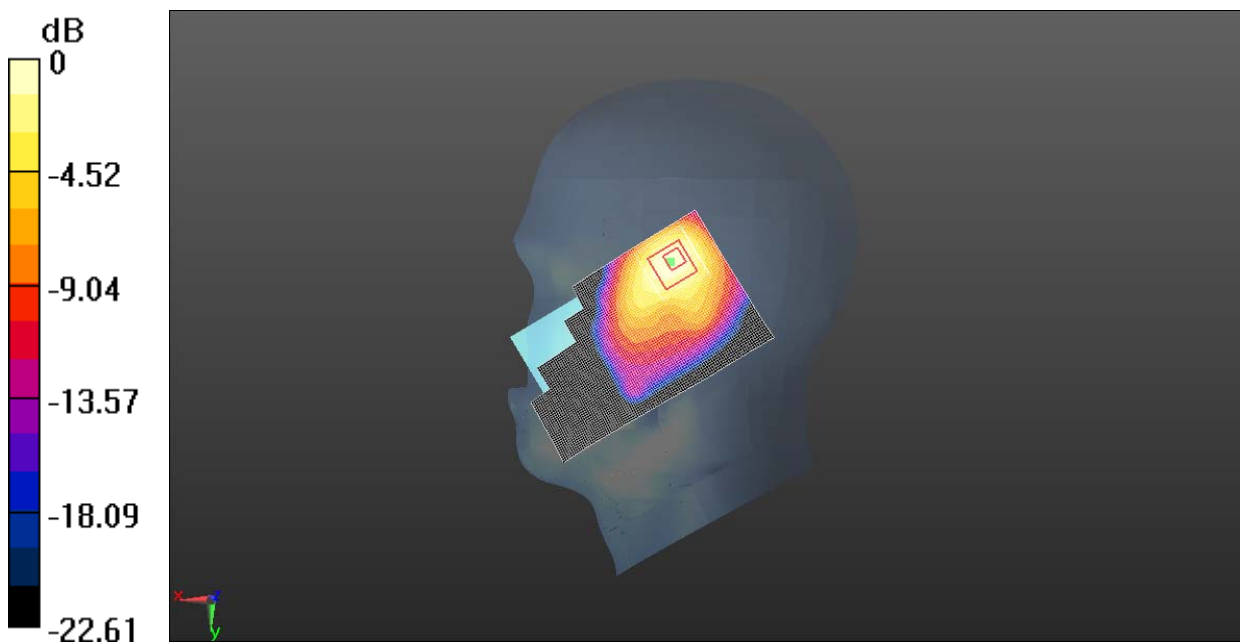Maximum value of SAR (interpolated) = 0.470 W/kg

Right Cheek High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.968 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.869 W/kg

SAR(1 g) = 0.394 W/kg; SAR(10 g) = 0.192 W/kg

Maximum value of SAR (measured) = 0.441 W/kg

0 dB = 0.441 W/kg = -3.56 dBW/kg

Fig. 47 2450 MHz CH11

Wifi Right Cheek Middle

Date/Time: 3/11/2013
Electronics: DAE4 Sn786
Medium: Head 2450
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.847 S/m; ε_r = 40.128; ρ = 1000 kg/m^3
Ambient Temperature:21.8^{o}C   Liquid Temperature: 21.2^{o}C
Communication System: WiFi 802.11 b Frequency: 2437 MHz Duty Cycle: 1:1
Probe: ES3DV3 - SN3151 ConvF(4.44, 4.44, 4.44); Calibrated: 4/24/2012

Right Cheek Middle/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.421 V/m; Power Drift = -0.19 dB
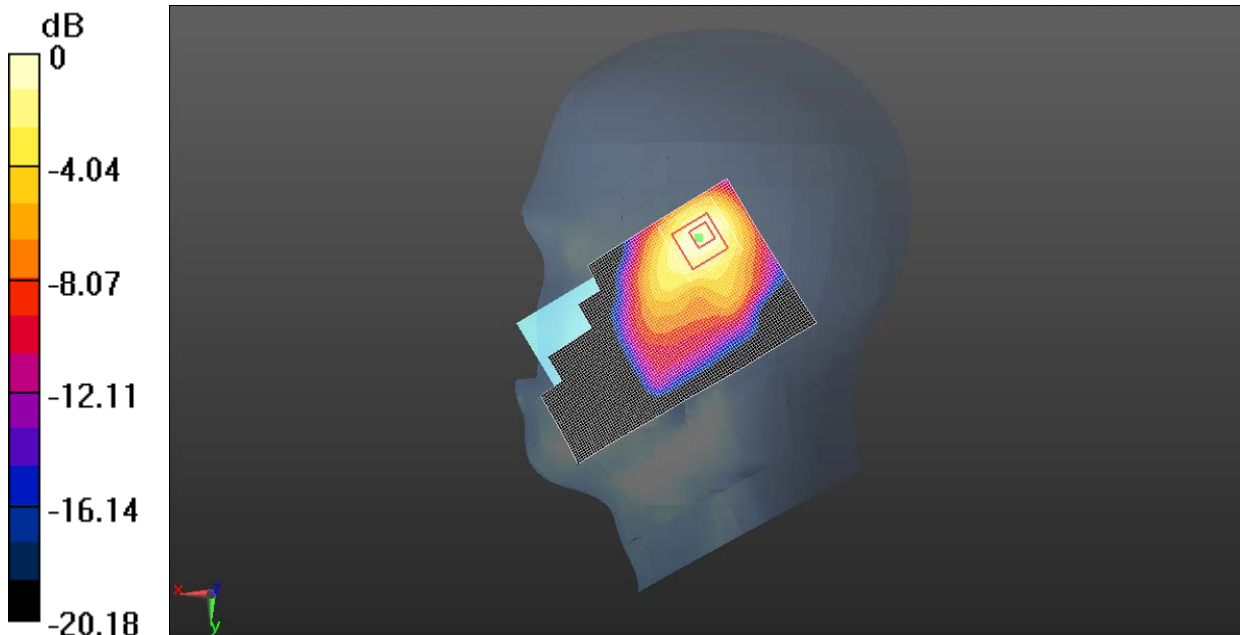Maximum value of SAR (interpolated) = 0.435 W/kg

Right Cheek Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.421 V/m; Power Drift = -0.19 dB
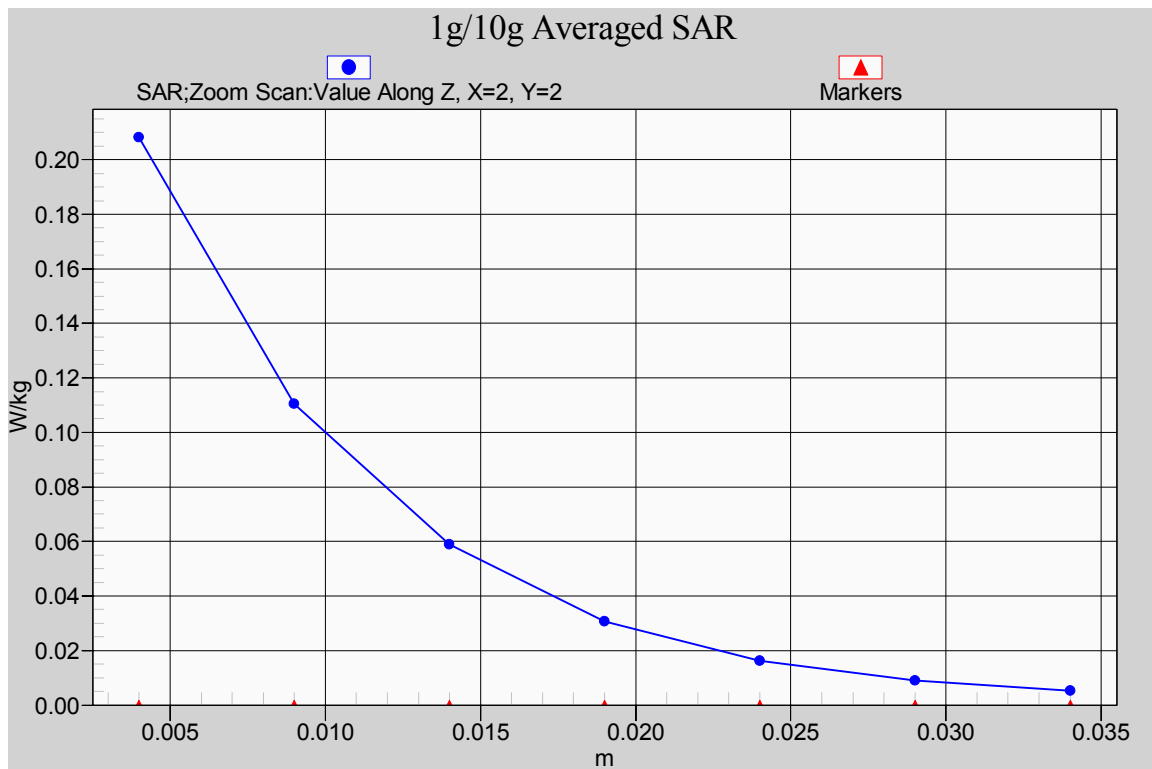Peak SAR (extrapolated) = 0.946 W/kg
SAR(1 g) = 0.400 W/kg; SAR(10 g) = 0.198 W/kg
Maximum value of SAR (measured) = 0.413 W/kg

0 dB = 0.413 W/kg = -3.84 dBW/kg

Fig. 48 2450 MHz CH6

Fig. 48-1 Z-Scan at power reference point (2450 MHz CH6)

Wifi Right Cheek Low

Date/Time: 3/11/2013

Electronics: DAE4 Sn786

Medium: Head 2450

Medium parameters used: f = 2412 MHz; σ = 1.815 S/m; ε_r = 40.212; ρ = 1000 kg/m^3

Ambient Temperature:21.8^{o}C   Liquid Temperature: 21.2^{o}C

Communication System: WiFi 802.11 b Frequency: 2412 MHz Duty Cycle: 1:1

Probe: ES3DV3 - SN3151 ConvF(4.44, 4.44, 4.44); Calibrated: 4/24/2012

Right Cheek Low/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 8.228 V/m; Power Drift = 0.19 dB

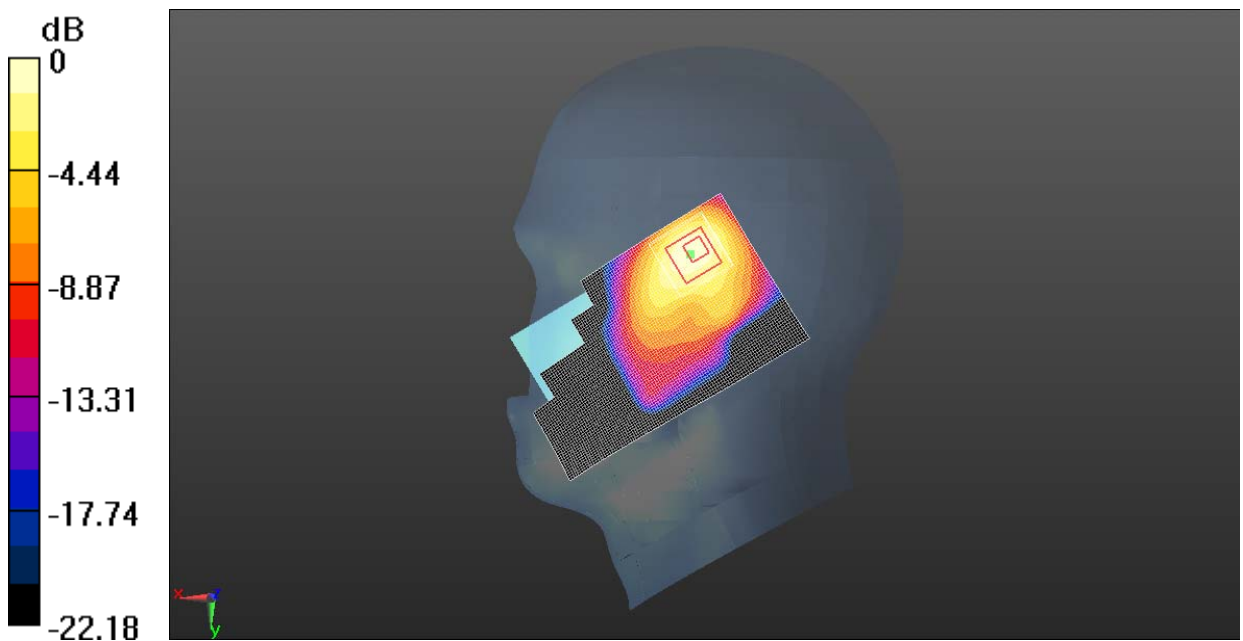Maximum value of SAR (interpolated) = 0.451 W/kg

Right Cheek Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.228 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.843 W/kg

SAR(1 g) = 0.392 W/kg; SAR(10 g) = 0.196 W/kg

Maximum value of SAR (measured) = 0.438 W/kg

0 dB = 0.438 W/kg = -3.59 dBW/kg

Fig. 49 2450 MHz CH1

Wifi Right Tilt Middle

Date/Time: 3/11/2013

Electronics: DAE4 Sn786

Medium: Head 2450

Medium parameters used (interpolated): f = 2437 MHz; σ = 1.847 S/m; ε_r = 40.128; ρ = 1000 kg/m^3

Ambient Temperature:21.8^{o}C   Liquid Temperature: 21.2^{o}C

Communication System: WiFi 802.11 b Frequency: 2437 MHz Duty Cycle: 1:1

Probe: ES3DV3 - SN3151 ConvF(4.44, 4.44, 4.44); Calibrated: 4/24/2012

Right Tilt Middle/Area Scan (51x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 8.138 V/m; Power Drift = 0.11 dB

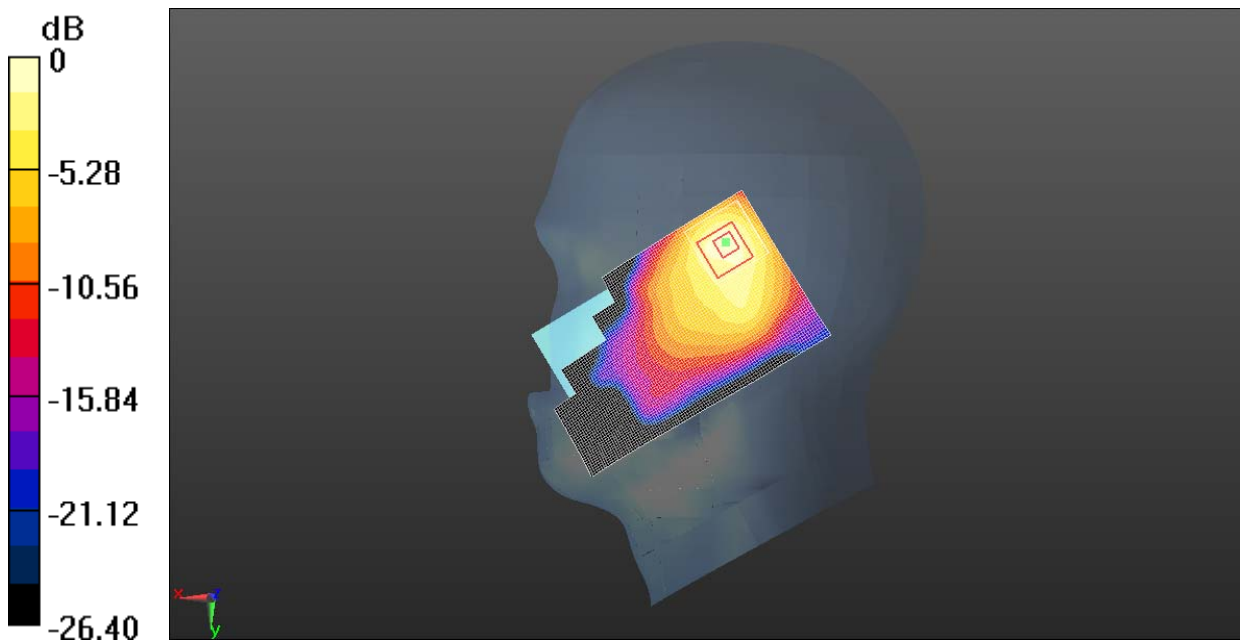Maximum value of SAR (interpolated) = 0.174 W/kg

Right Tilt Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.138 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.278 W/kg

SAR(1 g) = 0.154 W/kg; SAR(10 g) = 0.085 W/kg

Maximum value of SAR (measured) = 0.171 W/kg

0 dB = 0.171 W/kg = -7.68 dBW/kg

Fig. 50 2450 MHz CH6

Wifi Body Toward Phantom High

Date/Time: 3/11/2013

Electronics: DAE4 Sn786

Medium: Body 2450

Medium parameters used: f = 2462 MHz; σ = 1.917 S/m; ε_r = 52.123; ρ = 1000 kg/m^3

Ambient Temperature:21.8^{o}C   Liquid Temperature: 21.3^{o}C

Communication System: WiFi 802.11 b Frequency: 2462 MHz Duty Cycle: 1:1

Probe: ES3DV3 - SN3151 ConvF(4.24, 4.24, 4.24); Calibrated: 4/24/2012

Towards Phantom High/Area Scan (51x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 4.501 V/m; Power Drift = 0.01 dB

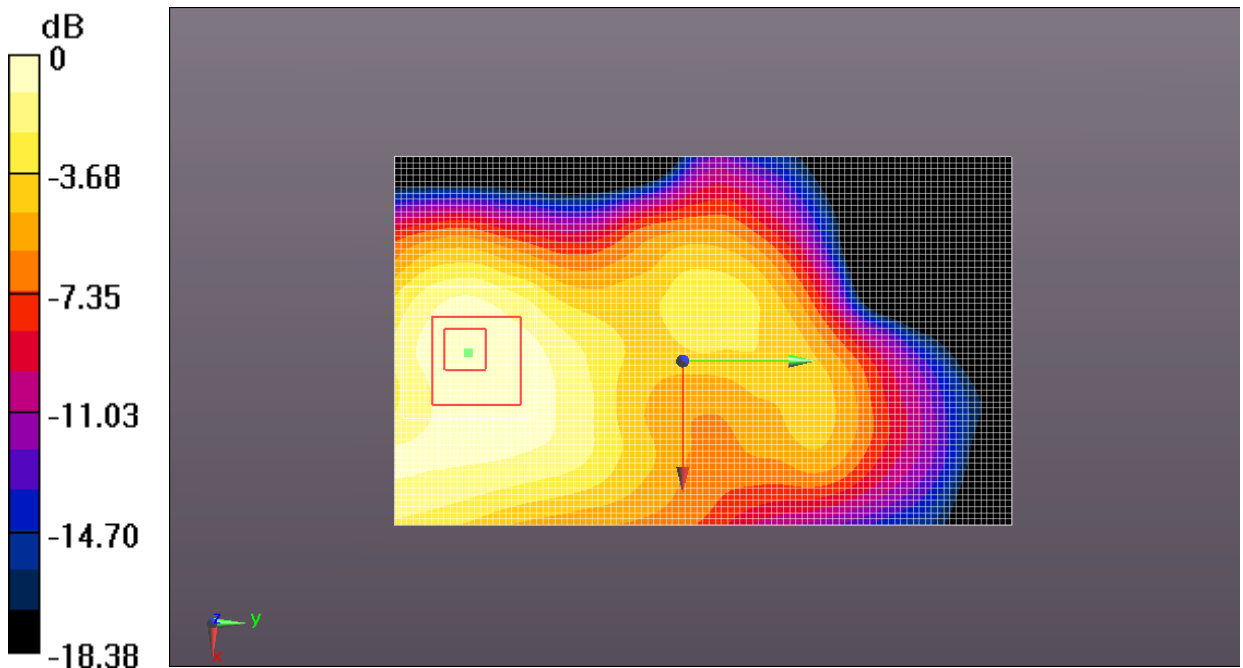Maximum value of SAR (interpolated) = 0.0865 W/kg

Towards Phantom High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.501 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.137 W/kg

SAR(1 g) = 0.075 W/kg; SAR(10 g) = 0.042 W/kg

Maximum value of SAR (measured) = 0.0802 W/kg

0 dB = 0.0802 W/kg = -10.96 dBW/kg

Fig. 51 2450 MHz CH11

Wifi Body Toward Ground High

Date/Time: 3/11/2013

Electronics: DAE4 Sn786

Medium: Body 2450

Medium parameters used: f = 2462 MHz; σ = 1.917 S/m; ε_r = 52.123; ρ = 1000 kg/m^3

Ambient Temperature:21.8^{o}C   Liquid Temperature: 21.3^{o}C

Communication System: WiFi 802.11 b Frequency: 2462 MHz Duty Cycle: 1:1

Probe: ES3DV3 - SN3151 ConvF(4.24, 4.24, 4.24); Calibrated: 4/24/2012

Towards Ground High/Area Scan (51x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 9.956 V/m; Power Drift = -0.01 dB
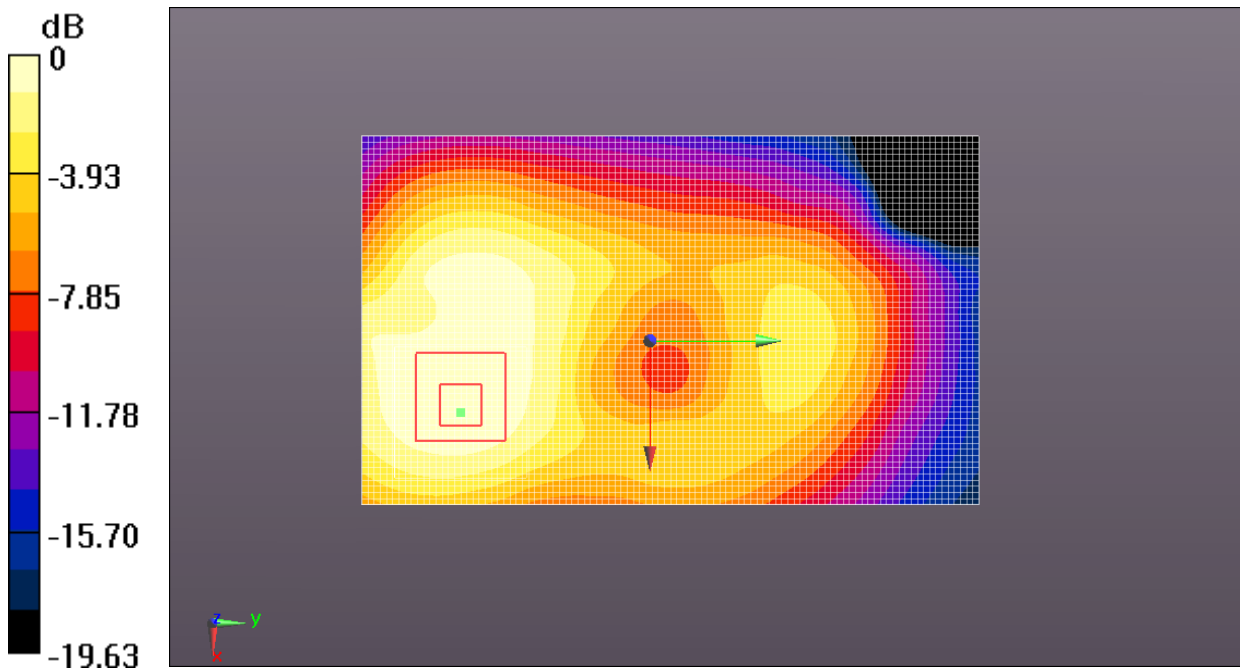
Maximum value of SAR (interpolated) = 0.510 W/kg

Towards Ground High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.956 V/m; Power Drift = -0.01 dB
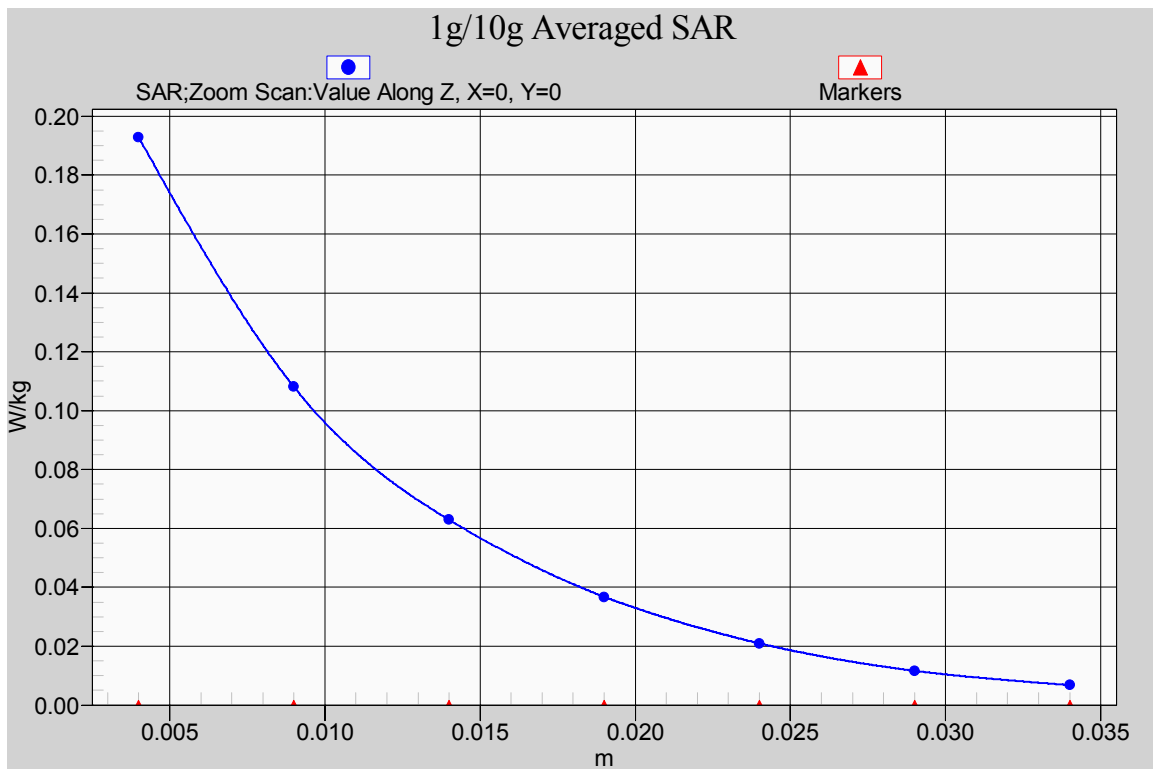
Peak SAR (extrapolated) = 0.931 W/kg

SAR(1 g) = 0.450 W/kg; SAR(10 g) = 0.213 W/kg

Maximum value of SAR (measured) = 0.464 W/kg

0 dB = 0.464 W/kg = -3.33 dBW/kg

Fig. 52 2450 MHz CH11

Fig. 52-1 Z-Scan at power reference point (2450 MHz CH11)

Wifi Body Towards Ground Middle

Date/Time: 3/11/2013
Electronics: DAE4 Sn786
Medium: Body 2450
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.886 S/m; ε_r = 52.182; ρ = 1000 kg/m^3
Ambient Temperature:21.8^{o}C   Liquid Temperature: 21.3^{o}C
Communication System: WiFi 802.11 b Frequency: 2437 MHz Duty Cycle: 1:1
Probe: ES3DV3 - SN3151 ConvF(4.24, 4.24, 4.24); Calibrated: 4/24/2012

Towards Ground Middle/Area Scan (51x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.841 V/m; Power Drift = 0.18 dB
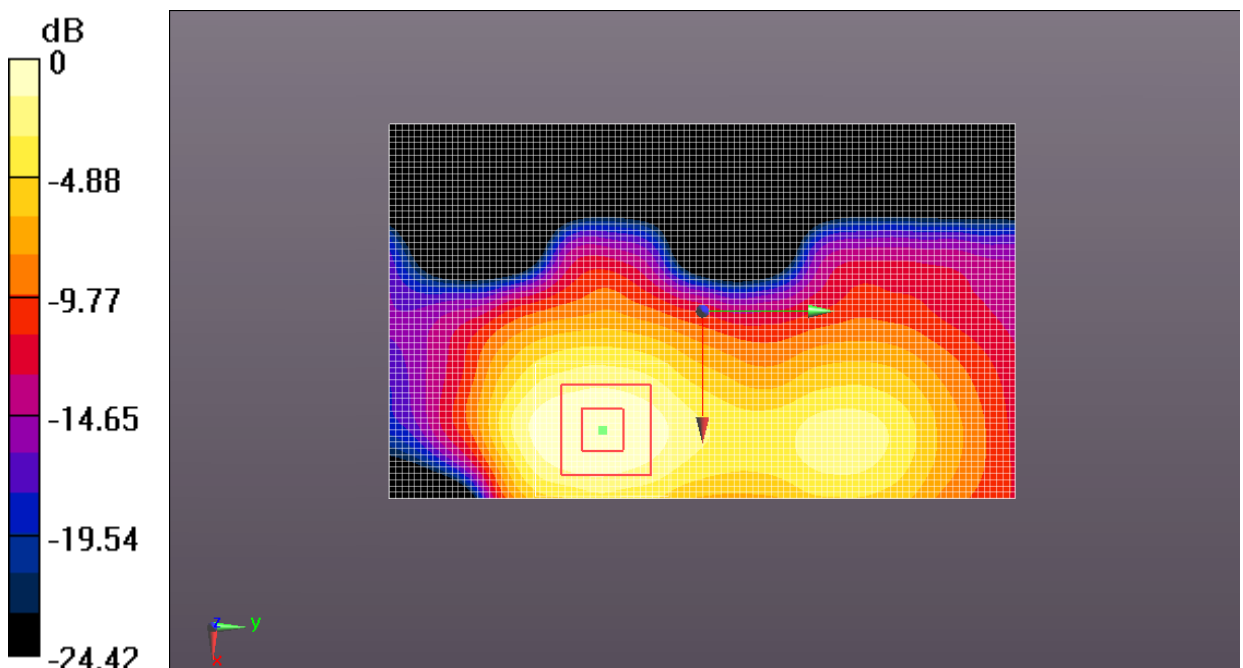Maximum value of SAR (interpolated) = 0.331 W/kg

Towards Ground Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.841 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 0.620 W/kg
SAR(1 g) = 0.305 W/kg; SAR(10 g) = 0.146 W/kg
Maximum value of SAR (measured) = 0.329 W/kg

0 dB = 0.329 W/kg = -4.83 dBW/kg

Fig. 53 2450 MHz CH6

Wifi Body Towards Ground Low

Date/Time: 3/11/2013

Electronics: DAE4 Sn786

Medium: Body 2450

Medium parameters used: f = 2412 MHz; σ = 1.856 S/m; ε_r = 52.241; ρ = 1000 kg/m^3

Ambient Temperature:21.8^{o}C   Liquid Temperature: 21.3^{o}C

Communication System: WiFi 802.11 b Frequency: 2412 MHz Duty Cycle: 1:1

Probe: ES3DV3 - SN3151 ConvF(4.24, 4.24, 4.24); Calibrated: 4/24/2012

Towards Ground Low/Area Scan (51x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 6.504 V/m; Power Drift = 0.18 dB
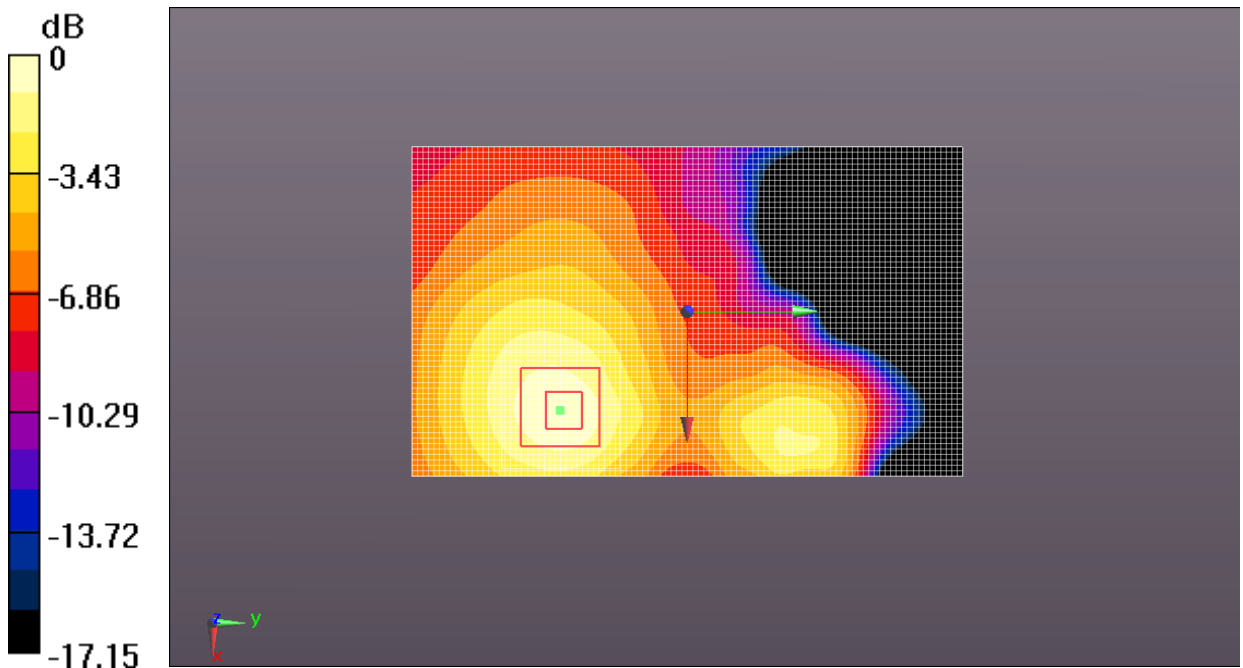
Maximum value of SAR (interpolated) = 0.299 W/kg

Towards Ground Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.504 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.519 W/kg

SAR(1 g) = 0.257 W/kg; SAR(10 g) = 0.127 W/kg

Maximum value of SAR (measured) = 0.276 W/kg

0 dB = 0.276 W/kg = -5.59 dBW/kg

Fig. 54 2450 MHz CH1

Wifi Body Left side High

Date/Time: 3/11/2013

Electronics: DAE4 Sn786

Medium: Body 2450

Medium parameters used: f = 2462 MHz; σ = 1.917 S/m; ε_r = 52.123; ρ = 1000 kg/m^3

Ambient Temperature:21.8^{o}C   Liquid Temperature: 21.3^{o}C

Communication System: WiFi 802.11 b Frequency: 2462 MHz Duty Cycle: 1:1

Probe: ES3DV3 - SN3151 ConvF(4.24, 4.24, 4.24); Calibrated: 4/24/2012

Left side High/Area Scan (51x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 7.504 V/m; Power Drift = 0.17 dB

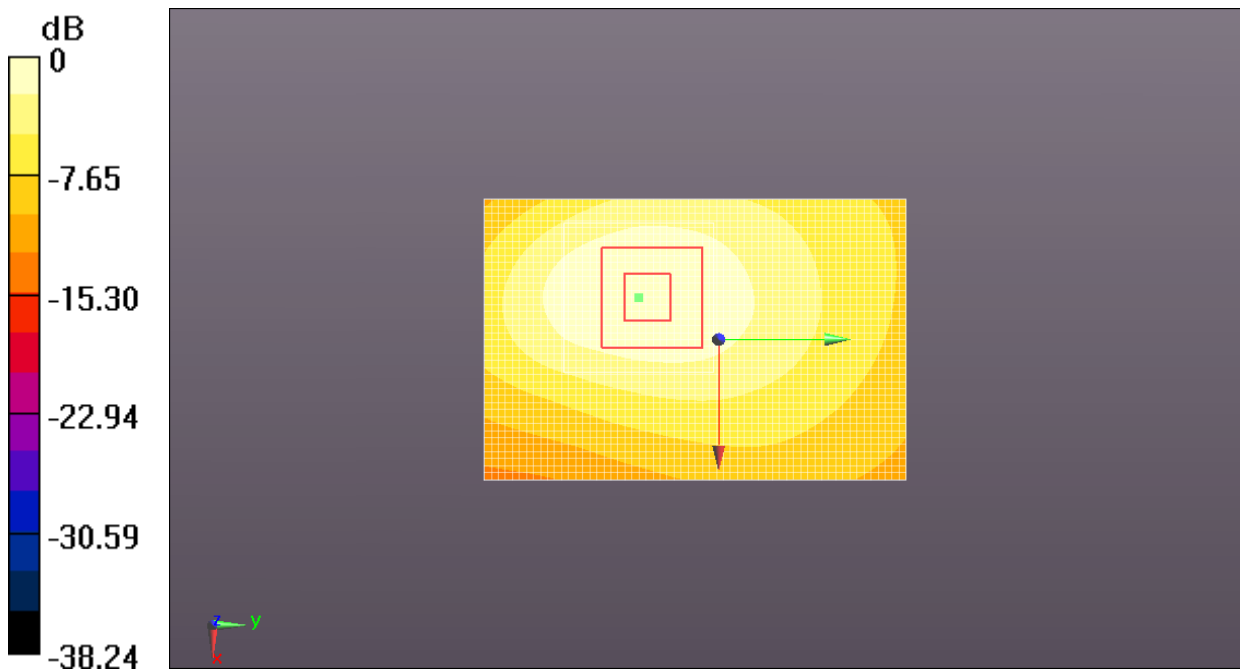Maximum value of SAR (interpolated) = 0.469 W/kg

Left side High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.504 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.798 W/kg

SAR(1 g) = 0.405 W/kg; SAR(10 g) = 0.203 W/kg

Maximum value of SAR (measured) = 0.447 W/kg

0 dB = 0.447 W/kg = -3.50 dBW/kg

Fig. 55 2450 MHz CH11

Wifi Body Right side High

Date/Time: 3/11/2013

Electronics: DAE4 Sn786

Medium: Body 2450

Medium parameters used: f = 2462 MHz; σ = 1.917 S/m; $ε_r$ = 52.123; ρ = 1000 kg/m^3

Ambient Temperature:21.8^{o}C   Liquid Temperature: 21.3^{o}C

Communication System: WiFi 802.11 b Frequency: 2462 MHz Duty Cycle: 1:1

Probe: ES3DV3 - SN3151 ConvF(4.24, 4.24, 4.24); Calibrated: 4/24/2012

Right side High/Area Scan (51x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 3.087 V/m; Power Drift = 0.12 dB
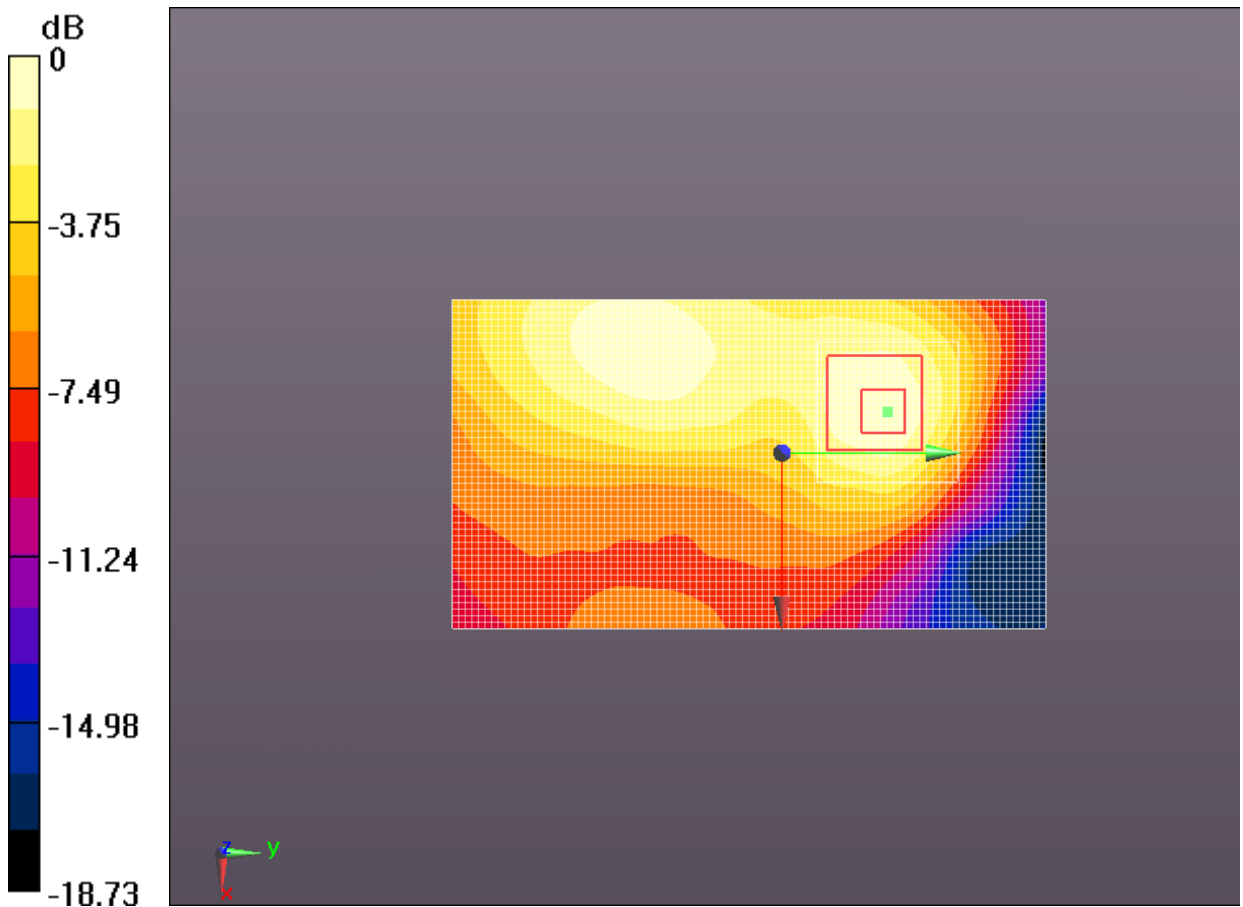
Maximum value of SAR (interpolated) = 0.0417 W/kg

Right side High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.087 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.0700 W/kg

SAR(1 g) = 0.038 W/kg; SAR(10 g) = 0.021 W/kg

Maximum value of SAR (measured) = 0.0407 W/kg

0 dB = 0.0407 W/kg = -13.90 dBW/kg

Fig. 56 2450 MHz CH11

Wifi Body Top side High

Date/Time: 3/11/2013

Electronics: DAE4 Sn786

Medium: Body 2450

Medium parameters used: f = 2462 MHz; σ = 1.917 S/m; ε_r = 52.123; ρ = 1000 kg/m^3

Ambient Temperature:21.8^{o}C   Liquid Temperature: 21.3^{o}C

Communication System: WiFi 802.11 b Frequency: 2462 MHz Duty Cycle: 1:1

Probe: ES3DV3 - SN3151 ConvF(4.24, 4.24, 4.24); Calibrated: 4/24/2012

Top side High/Area Scan (51x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 5.701 V/m; Power Drift = 0.17 dB

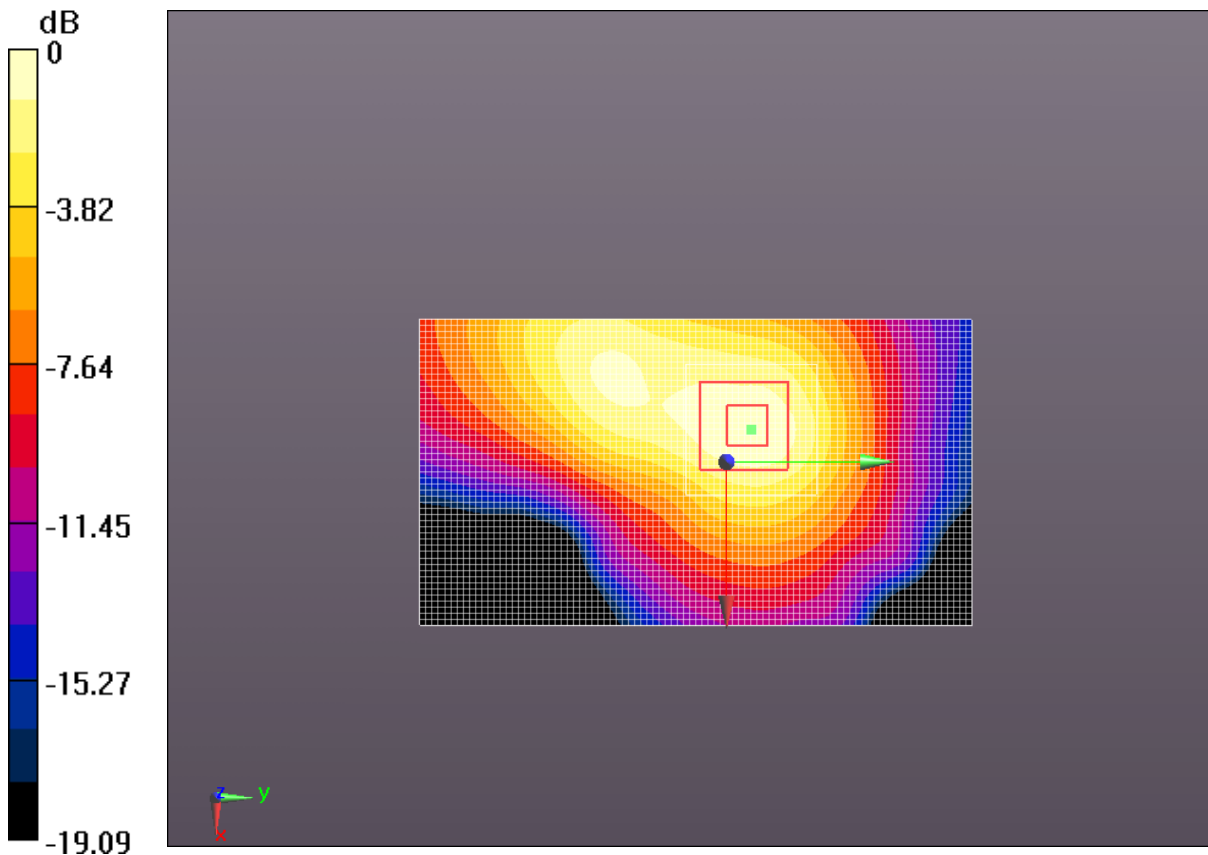Maximum value of SAR (interpolated) = 0.0890 W/kg

Top side High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.701 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.158 W/kg

SAR(1 g) = 0.084 W/kg; SAR(10 g) = 0.047 W/kg

Maximum value of SAR (measured) = 0.0920 W/kg

0 dB = 0.0920 W/kg = -10.36 dBW/kg

Fig. 57 2450 MHz CH11

GSM850 Left Cheek High_AE2

Date/Time: 2/23/2013

Electronics: DAE4 Sn786

Medium: Head 900MHz

Medium parameters used (interpolated): f = 848.8 MHz; σ = 0.902 S/m; ε_r = 41.375; ρ = 1000 kg/m^3

Ambient Temperature:22.1^{o}C   Liquid Temperature: 21.6^{o}C

Communication System: GSM Frequency: 848.8 MHz Duty Cycle: 1:8.30042

Probe: ES3DV3 - SN3151 ConvF(6.27, 6.27, 6.27); Calibrated: 4/24/2012

Left Cheek High 2/Area Scan (51x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 7.902 V/m; Power Drift = -0.11 dB

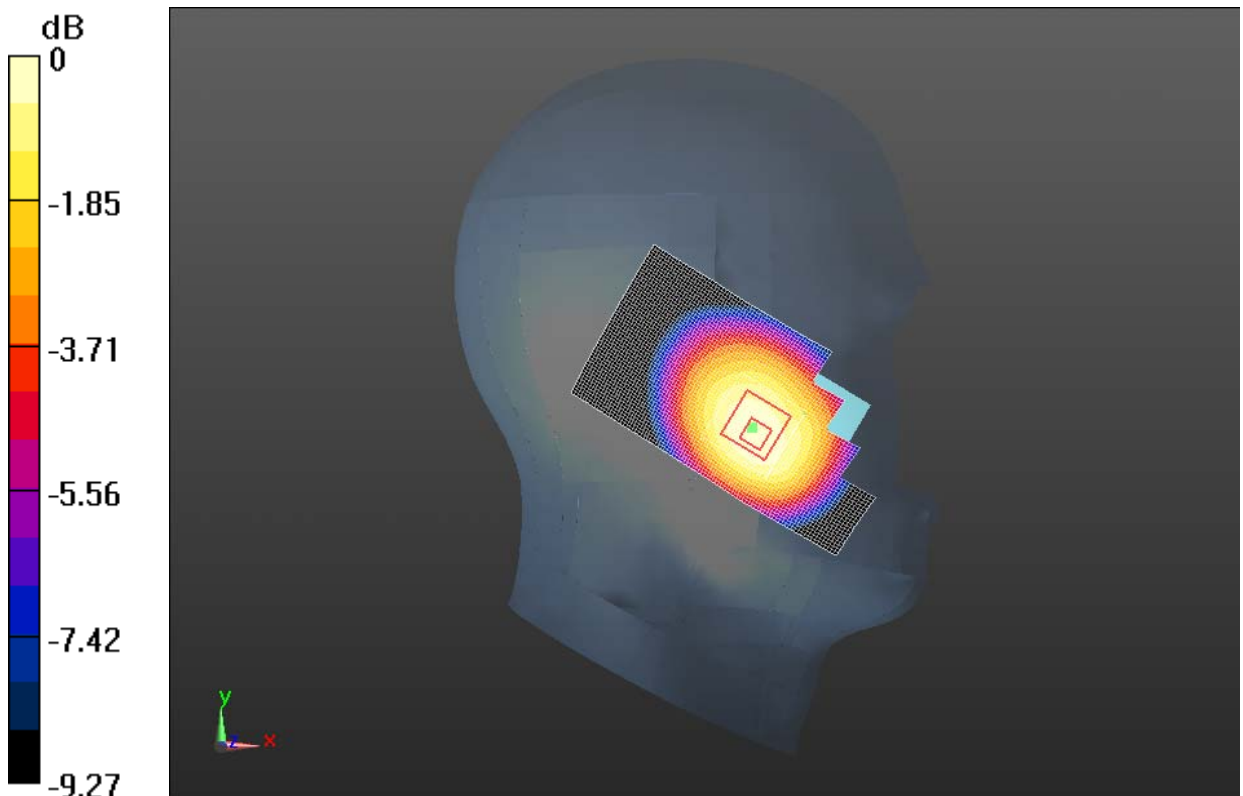Maximum value of SAR (interpolated) = 0.752 W/kg

Left Cheek High 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.902 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.888 W/kg

SAR(1 g) = 0.716 W/kg; SAR(10 g) = 0.535 W/kg

Maximum value of SAR (measured) = 0.753 W/kg

0 dB = 0.753 W/kg = -1.23 dBW/kg

Fig. 58 850 MHz CH251

GSM 850 Towards Ground High with GPRS_AE2

Date/Time: 2/24/2013

Electronics: DAE4 Sn786

Medium: Body 900

Medium parameters used (interpolated): f = 848.8 MHz; σ = 0.986 S/m; ε_r = 53.695; ρ = 1000 kg/m^3

Ambient Temperature:21.9^{o}C   Liquid Temperature: 21.5^{o}C

Communication System: 1 slot GPRS Frequency: 848.8 MHz Duty Cycle: 1:8.30042

Probe: ES3DV3 - SN3151 ConvF(6.07, 6.07, 6.07); Calibrated: 4/24/2012

Towards Ground High/Area Scan (51x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 28.719 V/m; Power Drift = 0.07 dB

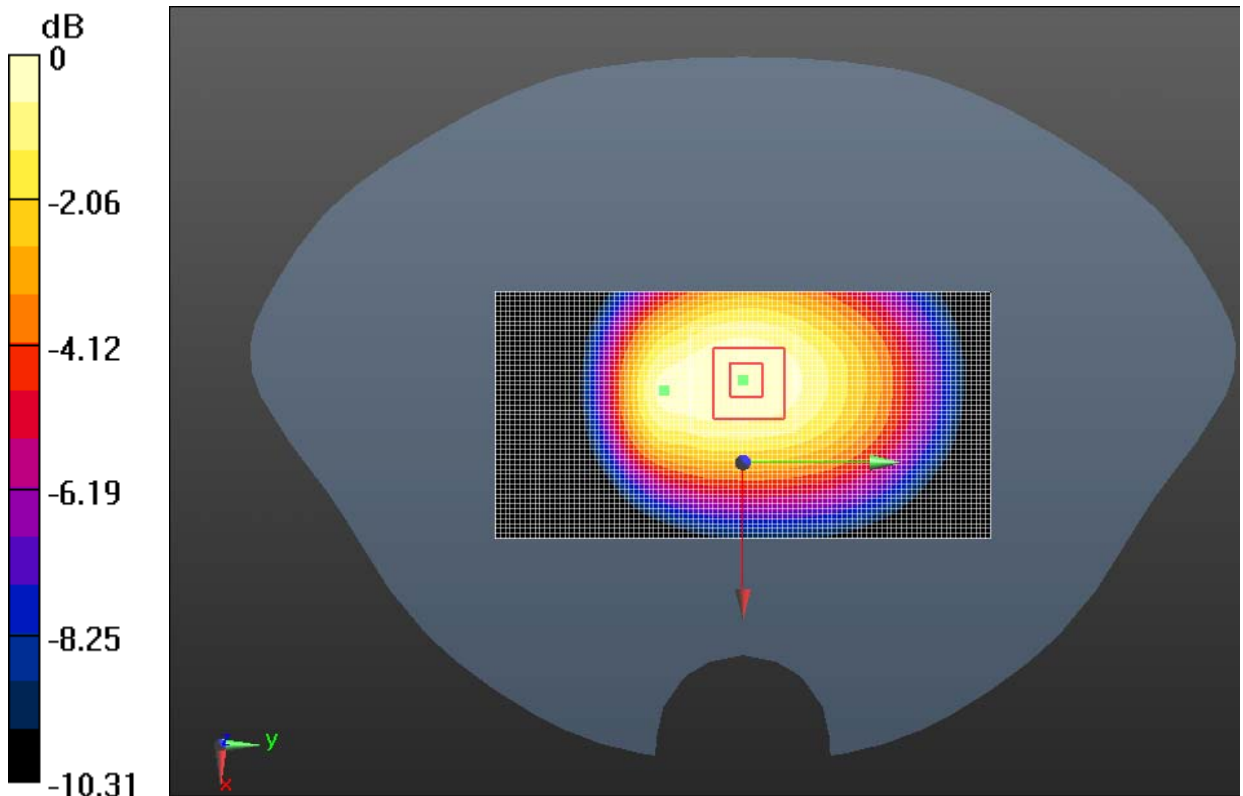Maximum value of SAR (interpolated) = 0.842 W/kg

Towards Ground High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 28.719 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.795 W/kg; SAR(10 g) = 0.576 W/kg

Maximum value of SAR (measured) = 0.843 W/kg

0 dB = 0.843 W/kg = -0.74 dBW/kg

Fig. 59 850 MHz CH251

ANNEX B   System Verification Results

835MHz

Date/Time: 2/23/2013
Electronics: DAE4 Sn786
Medium: Head 900MHz
Medium parameters used (interpolated): f = 835 MHz; σ = 0.915 S/m; ε_r = 43.174; ρ = 1000 kg/m^3
Ambient Temperature:22.1^{o}C   Liquid Temperature: 21.6^{o}C
Communication System: CW_TMC Frequency: 835 MHz Duty Cycle: 1:1
Probe: ES3DV3 - SN3151 ConvF(6.27, 6.27, 6.27); Calibrated: 4/24/2012

System validation/Area Scan (61x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 56.730 V/m; Power Drift = -0.16 dB
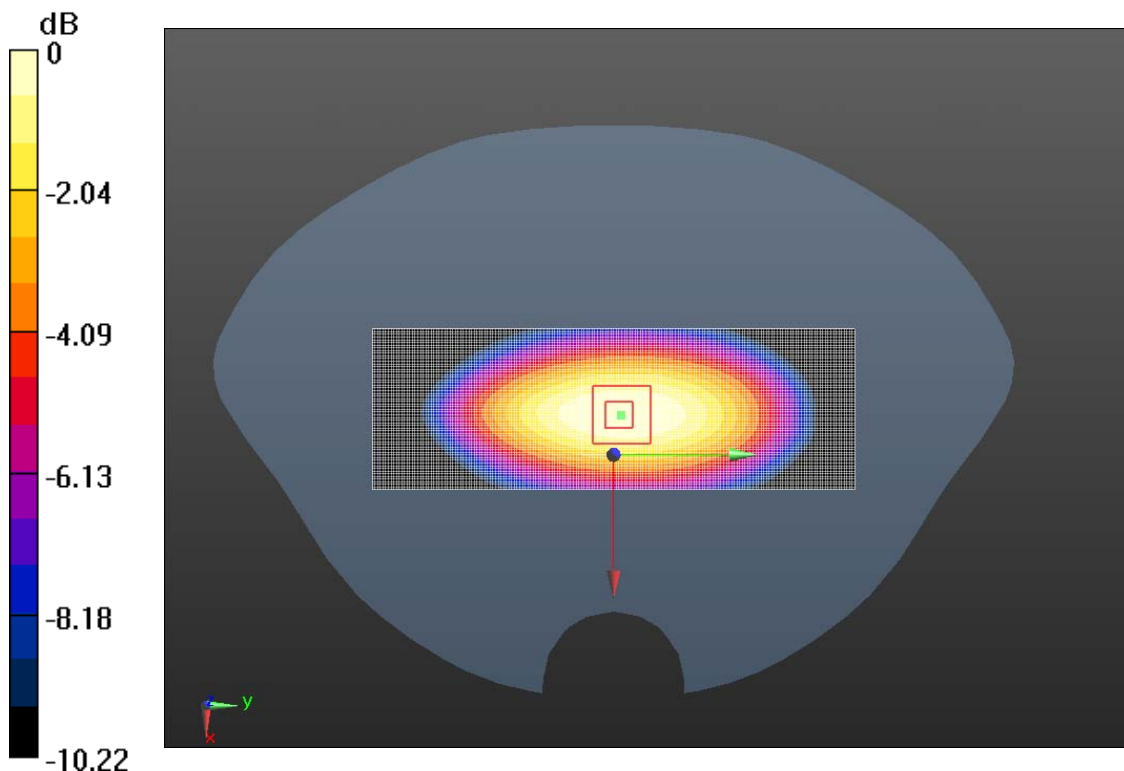Maximum value of SAR (interpolated) = 2.70 W/kg
System validation/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 56.730 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 3.42 W/kg
SAR(1 g) = 2.38 W/kg; SAR(10 g) = 1.58 W/kg
Maximum value of SAR (measured) = 2.58 W/kg

0 dB = 2.58 W/kg = 4.11 dBW/kg

Fig.B.1 validation 835MHz 250mW

835MHz

Date/Time: 2/24/2013
Electronics: DAE4 Sn786
Medium: Body 900
Medium parameters used (interpolated): f = 835 MHz; σ = 0.974 S/m; ε_r = 53.879; ρ = 1000 kg/m^3
Ambient Temperature:21.9^{o}C   Liquid Temperature: 21.5^{o}C
Communication System: CW_TMC Frequency: 835 MHz Duty Cycle: 1:1
Probe: ES3DV3 - SN3151 ConvF(6.07, 6.07, 6.07); Calibrated: 4/24/2012

System validation /Area Scan (61x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 50.386 V/m; Power Drift = -0.08 dB
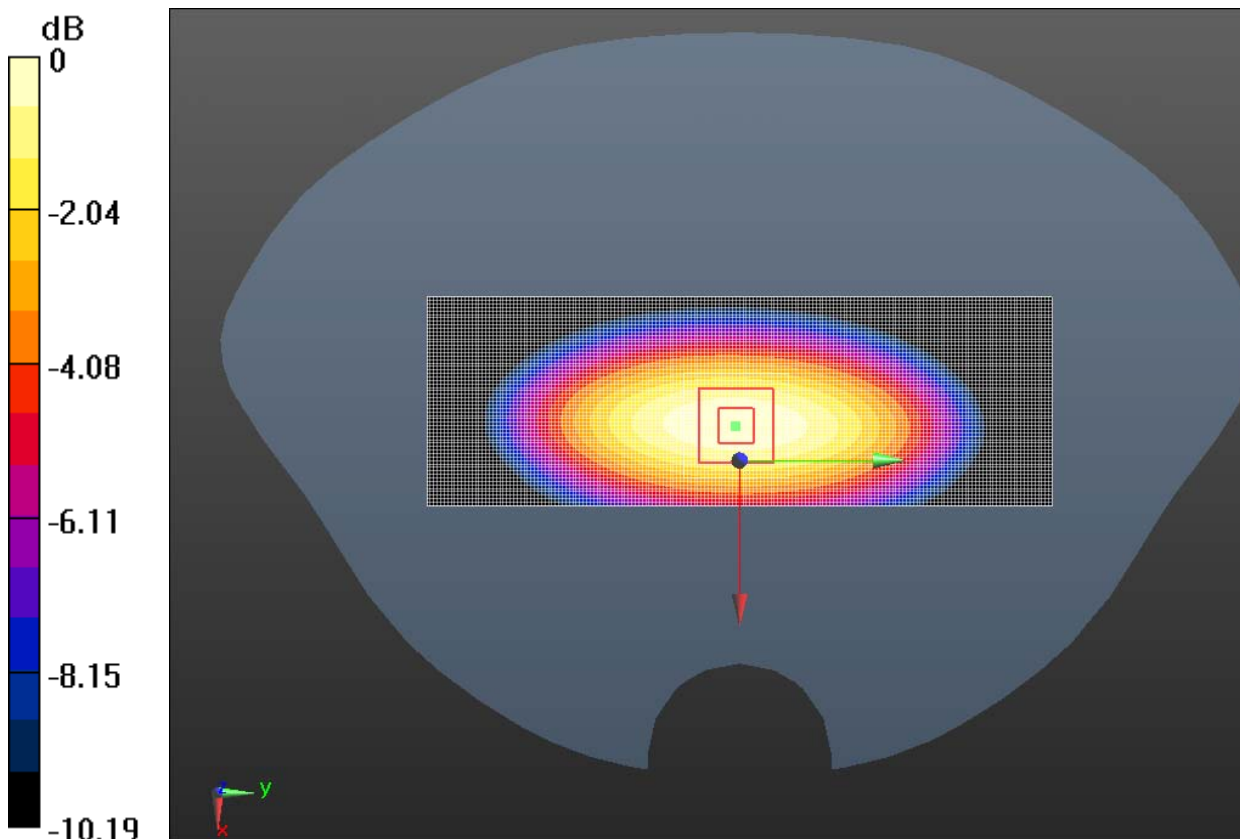Maximum value of SAR (interpolated) = 2.69 W/kg
System validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 50.386 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 3.62 W/kg
SAR(1 g) = 2.49 W/kg; SAR(10 g) = 1.64 W/kg
Maximum value of SAR (measured) = 2.70 W/kg

0 dB = 2.70 W/kg = 4.31 dBW/kg

Fig.B.2 validation 835MHz 250mW

1900MHz

Date/Time: 02/23/2013
Electronics: DAE4 Sn786
Medium: Head 1900
Medium parameters used: f = 1900 MHz; σ = 1.463 S/m; ε_r = 40.248; ρ = 1000 kg/m^3
Ambient Temperature:22.0^{o}C   Liquid Temperature: 21.5^{o}C
Communication System: CW_TMC Frequency: 1900 MHz Duty Cycle: 1:1
Probe: ES3DV3 - SN3151 ConvF(5.06, 5.06, 5.06); Calibrated: 4/24/2012

System validation /Area Scan (61x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 88.972 V/m; Power Drift = 0.09 dB
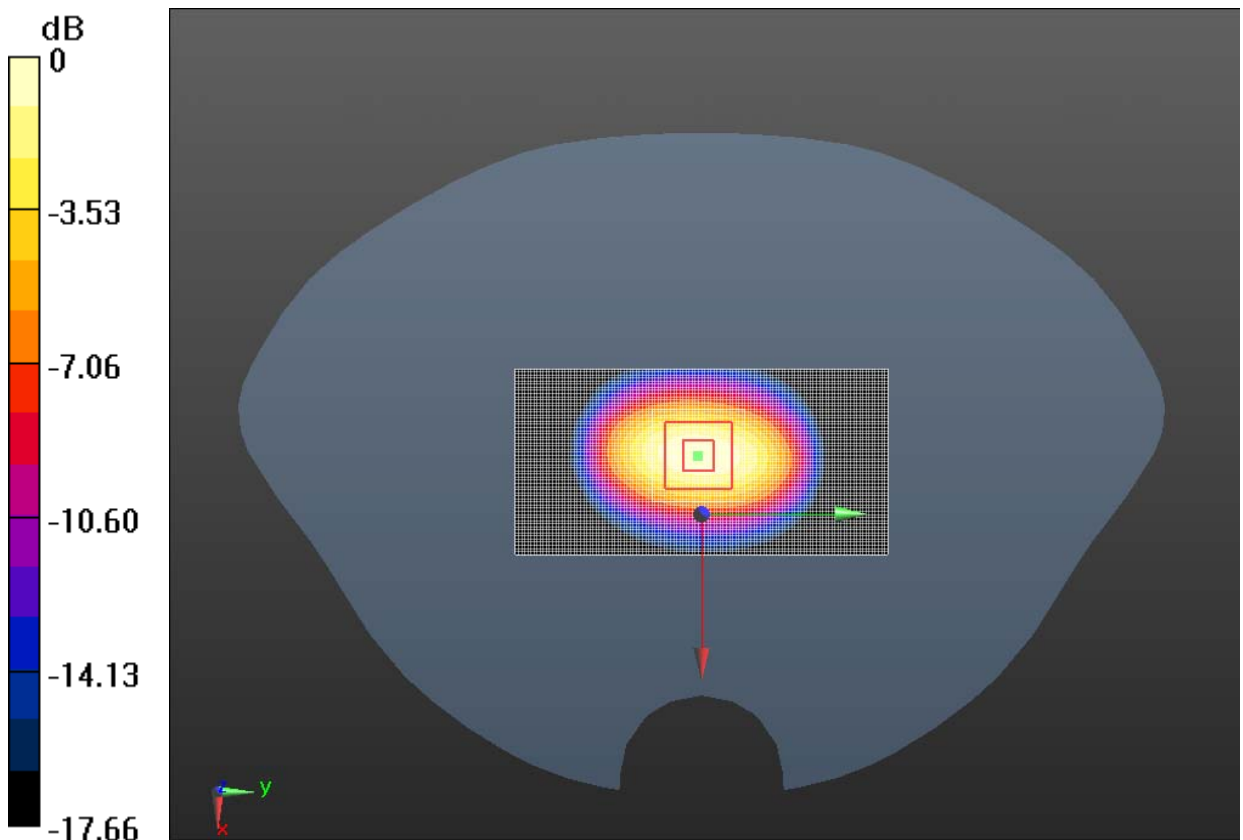Maximum value of SAR (interpolated) = 11.6 W/kg
System validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 88.972 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 19.5 W/kg
SAR(1 g) = 10.3 W/kg; SAR(10 g) = 5.32 W/kg
Maximum value of SAR (measured) = 11.7 W/kg

0 dB = 11.7 W/kg = 10.68 dBW/kg

Fig.B.3 validation 1900MHz 250mW

1900MHz

Date/Time: 2/24/2013
Electronics: DAE4 Sn786
Medium: Body 1900MHz
Medium parameters used: f = 1900 MHz; σ = 1.551 S/m; $ε_r$ = 51.898; ρ = 1000 kg/m^3
Ambient Temperature:21.9^{o}C   Liquid Temperature: 21.5^{o}C
Communication System: CW_TMC Frequency: 1900 MHz Duty Cycle: 1:1
Probe: ES3DV3 - SN3151 ConvF(4.7, 4.7, 4.7); Calibrated: 4/24/2012

System validation /Area Scan (61x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 77.765 V/m; Power Drift = 0.17 dB
Maximum value of SAR (interpolated) = 11.8 W/kg
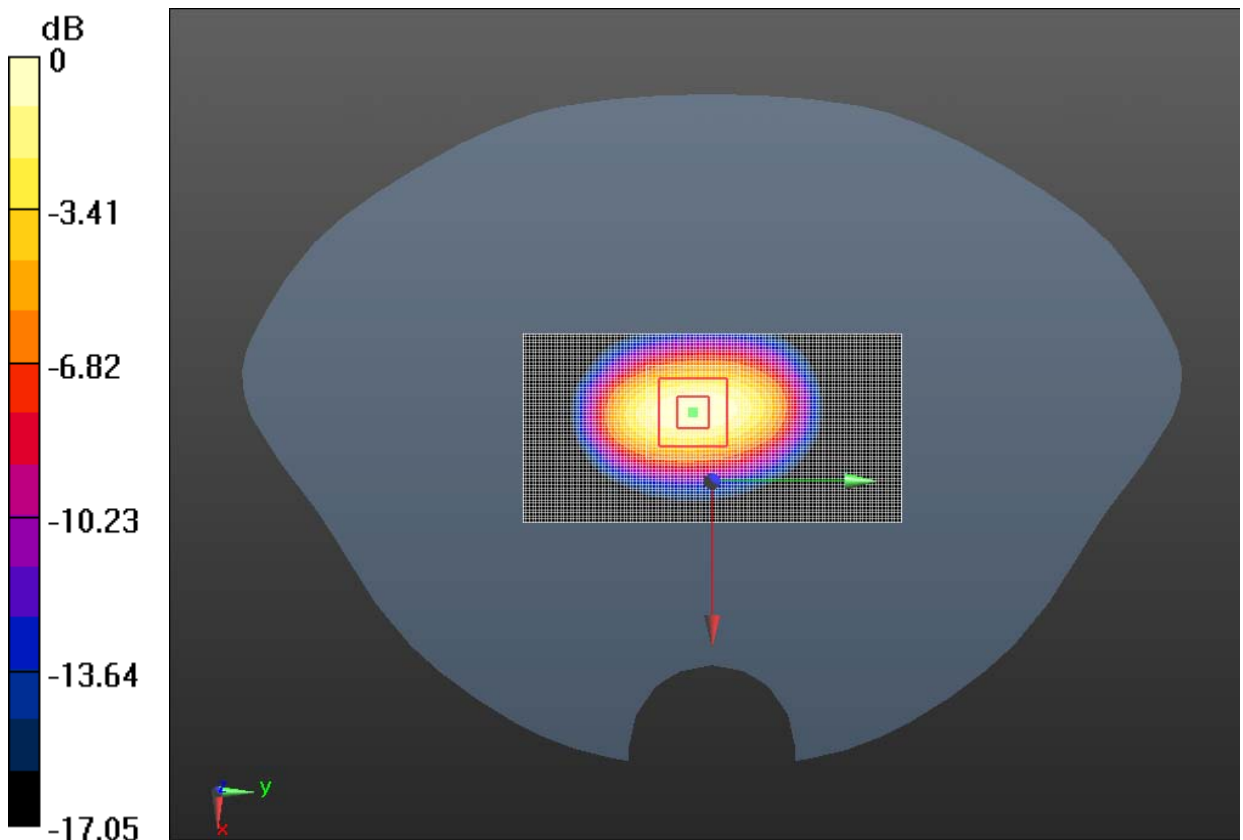**System validation /Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 77.765 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 18.0 W/kg
SAR(1 g) = 10.2 W/kg; SAR(10 g) = 5.32 W/kg
Maximum value of SAR (measured) = 11.6 W/kg

0 dB = 11.6 W/kg = 10.64 dBW/kg

Fig.B.4 validation 1900MHz 250mW

2450MHz

Date/Time:3/11/2013
Electronics: DAE4 Sn786
Medium: Head 2450
Medium parameters used: f = 2450 MHz; σ = 1.864 S/m; ε_r = 40.086; ρ = 1000 kg/m^3
Ambient Temperature:21.8^{o}C   Liquid Temperature: 21.2^{o}C
Communication System: CW_TMC Frequency: 2450 MHz Duty Cycle: 1:1
Probe: ES3DV3 - SN3151 ConvF(4.44, 4.44, 4.44); Calibrated: 4/24/2012

System validation /Area Scan (61x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 81.997 V/m; Power Drift = 0.18 dB
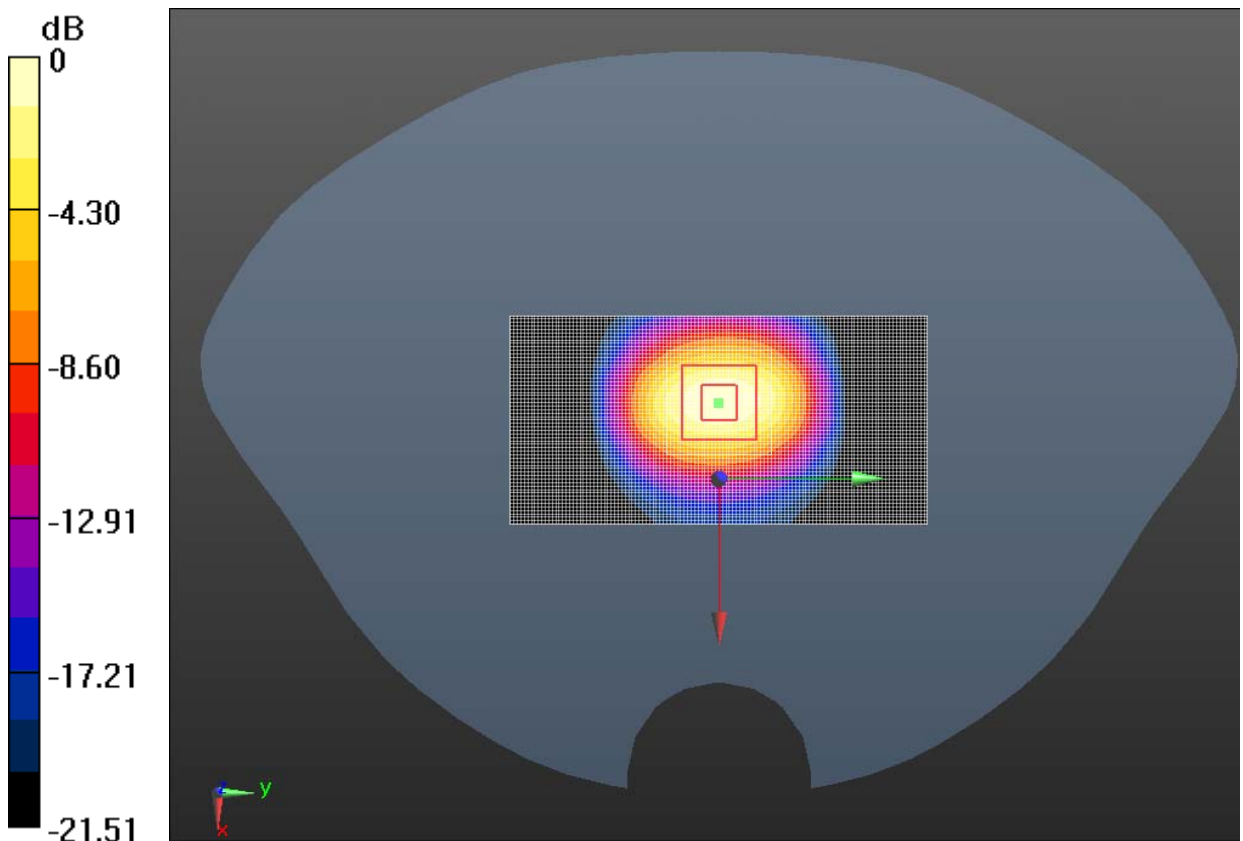**Maximum value of SAR (interpolated) = 15.2 W/kg**

System validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 81.997 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 27.7 W/kg
SAR(1 g) = 13.1 W/kg; SAR(10 g) = 6.09 W/kg
Maximum value of SAR (measured) = 15.0 W/kg

0 dB = 15.0 W/kg = 11.76 dBW/kg

Fig.B.5 validation 2450MHz 250mW

2450MHz

Date/Time: 3/11/2013
Electronics: DAE4 Sn786
Medium: Body 2450
Medium parameters used: f = 2450 MHz; σ = 1.936 S/m; ε_r = 52.236; ρ = 1000 kg/m^3
Ambient Temperature:21.8^{o}C   Liquid Temperature: 21.3^{o}C
Communication System: CW_TMC Frequency: 2450 MHz Duty Cycle: 1:1
Probe: ES3DV3 - SN3151 ConvF(4.24, 4.24, 4.24); Calibrated: 4/24/2012

System validation /Area Scan (61x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 83.910 V/m; Power Drift = 0.11 dB
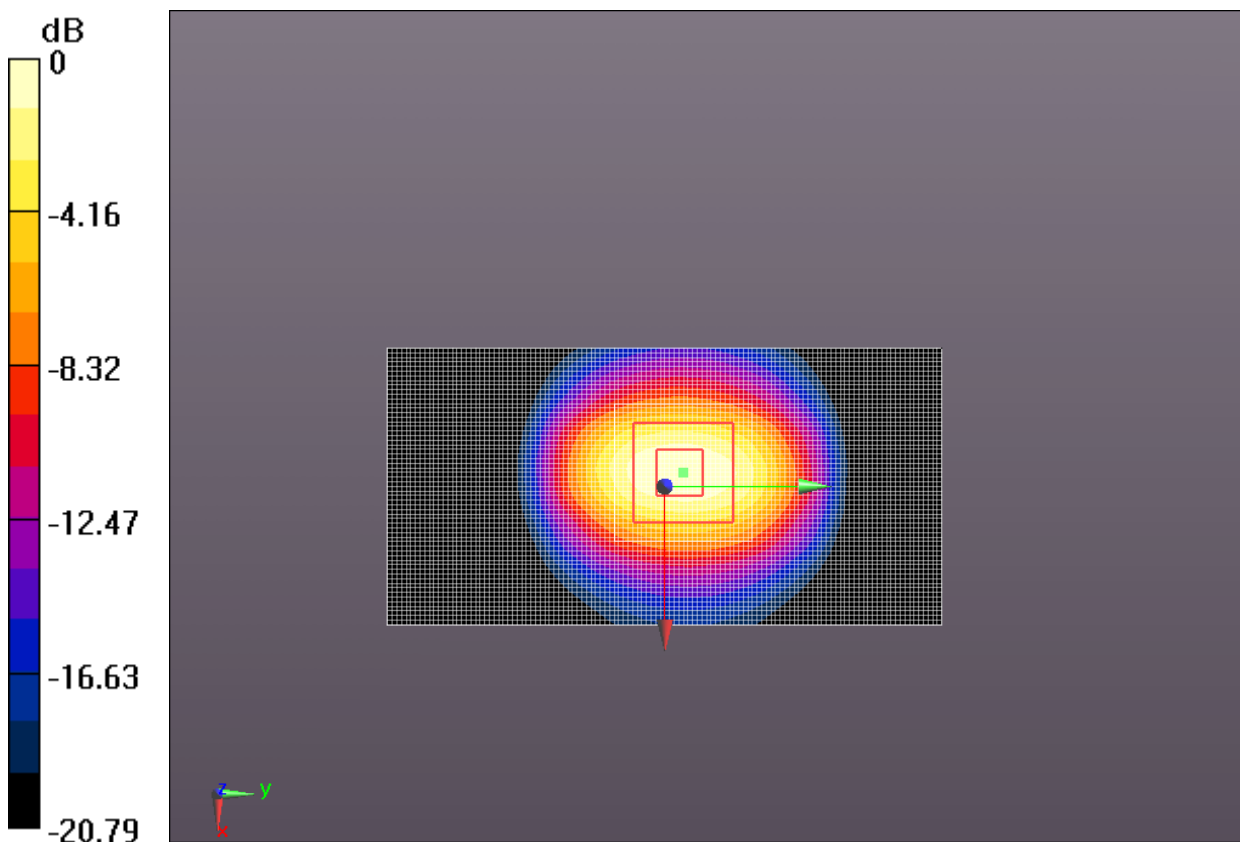Maximum value of SAR (interpolated) = 15.8 W/kg
System validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 83.910 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 28.6 W/kg
SAR(1 g) = 13.4 W/kg; SAR(10 g) = 6.2 W/kg
Maximum value of SAR (measured) = 15.3 W/kg

0 dB = 15.3 W/kg = 11.85 dBW/kg

Fig.B.6 validation 2450MHz 250mW