



APPENDIX A - SAR MEASUREMENT DATA

2437MHz Left Head Touch, b mode

Date/Time: 6/29/2010 3:26:08 PM

DUT: Cisco; Type: CP-7925

Communication System: DTS ; ; Frequency: 2437 MHz;Duty Cycle: 1:1

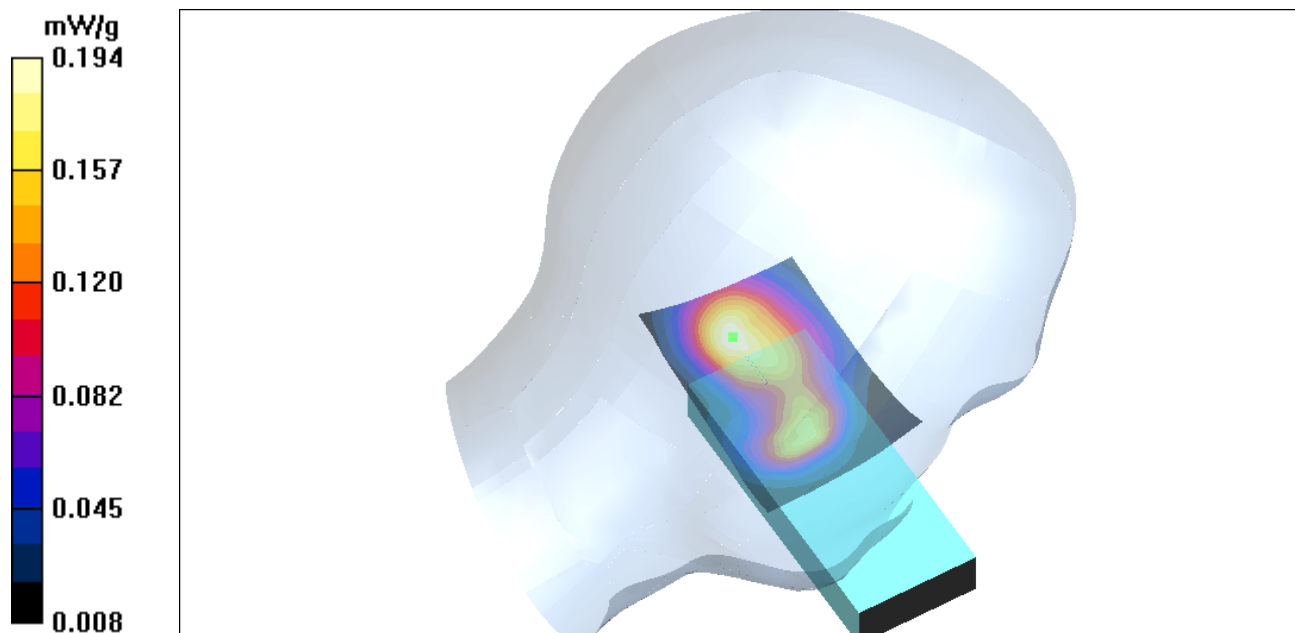
Medium: HSL2437 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.88$ mho/m; $\epsilon_r = 38.7$; $\rho = 1000$ kg/m³

Phantom section: Left Section

- Probe: EX3DV4 - SN3722; ConvF(6.65, 6.65, 6.65); Calibrated: 5/19/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (101x71x1): Measurement grid: $dx=10$ mm, $dy=10$ mm
Maximum value of SAR (interpolated) = 0.194 mW/g

Zoom Scan (7x7x11)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=3$ mm
Reference Value = 9.26 V/m; Power Drift = 0.021 dB
Peak SAR (extrapolated) = 0.289 W/kg
SAR(1 g) = 0.153 mW/g; SAR(10 g) = 0.085 mW/g
Maximum value of SAR (measured) = 0.191 mW/g



2437MHz Left Head Tilt, b mode

Date/Time: 6/29/2010 3:53:46 PM

DUT: Cisco; Type: CP-7925

Communication System: DTS ; ; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2437 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.88$ mho/m; $\epsilon_r = 38.7$; $\rho = 1000$ kg/m³

Phantom section: Left Section

- Probe: EX3DV4 - SN3722; ConvF(6.65, 6.65, 6.65); Calibrated: 5/19/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (101x71x1): Measurement grid: $dx=10$ mm, $dy=10$ mm
Maximum value of SAR (interpolated) = 0.307 mW/g

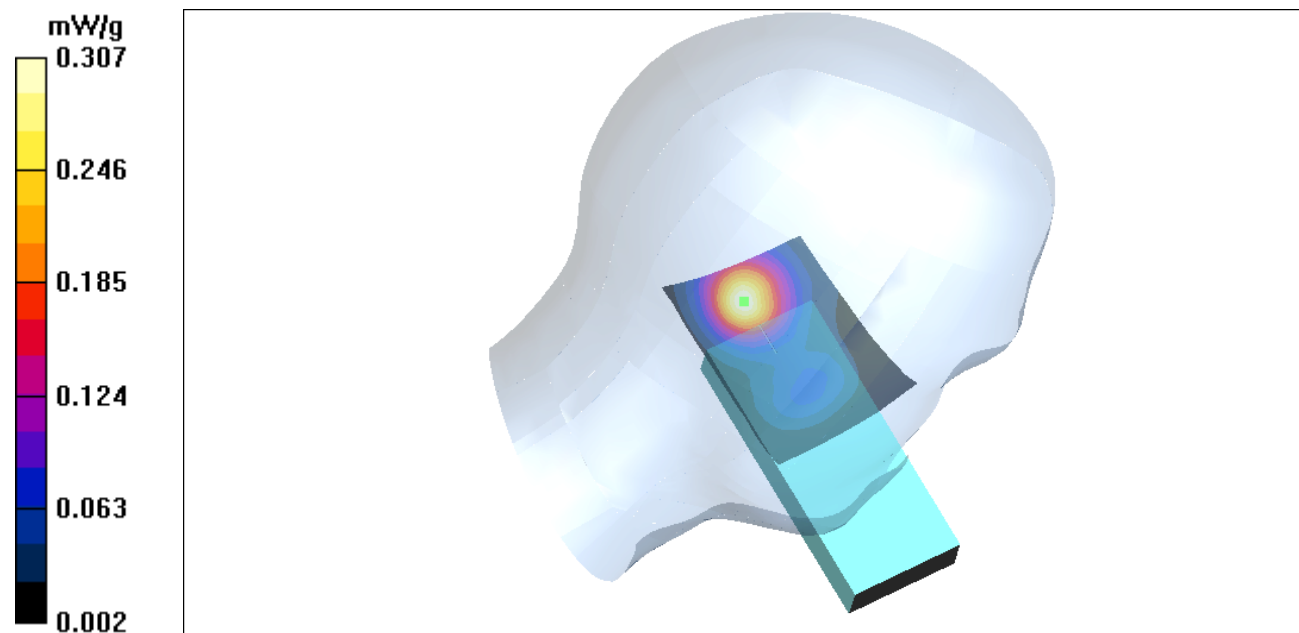
Zoom Scan (7x7x11)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=3$ mm

Reference Value = 10.9 V/m; Power Drift = -0.142 dB

Peak SAR (extrapolated) = 0.471 W/kg

SAR(1 g) = 0.244 mW/g; SAR(10 g) = 0.125 mW/g

Maximum value of SAR (measured) = 0.307 mW/g



2437MHz Left Head Touch, g mode

Date/Time: 6/29/2010 4:25:32 PM

DUT: Cisco; Type: CP-7925

Communication System: DTS ; ; Frequency: 2437 MHz;Duty Cycle: 1:1

Medium: HSL2437 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.88$ mho/m; $\epsilon_r = 38.7$; $\rho = 1000$ kg/m³

Phantom section: Left Section

- Probe: EX3DV4 - SN3722; ConvF(6.65, 6.65, 6.65); Calibrated: 5/19/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (101x71x1): Measurement grid: $dx=10$ mm, $dy=10$ mm
Maximum value of SAR (interpolated) = 0.246 mW/g

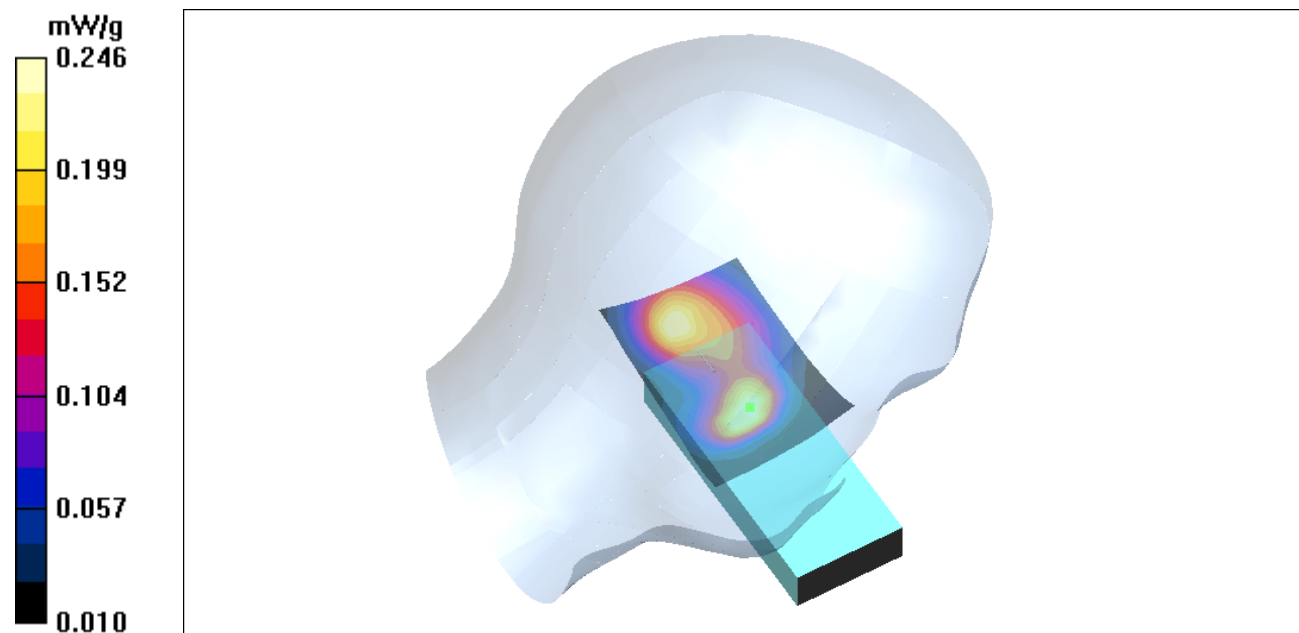
Zoom Scan (7x7x11)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=3$ mm

Reference Value = 9.66 V/m; Power Drift = 0.021 dB

Peak SAR (extrapolated) = 0.291 W/kg

SAR(1 g) = 0.185 mW/g; SAR(10 g) = 0.100 mW/g

Maximum value of SAR (measured) = 0.226 mW/g



2437MHz Left Head Tilt, g mode

Date/Time: 6/29/2010 4:54:28 PM

DUT: Cisco; Type: CP-7925

Communication System: DTS ; ; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2437 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.88$ mho/m; $\epsilon_r = 38.7$; $\rho = 1000$ kg/m³

Phantom section: Left Section

- Probe: EX3DV4 - SN3722; ConvF(6.65, 6.65, 6.65); Calibrated: 5/19/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (101x71x1): Measurement grid: $dx=10$ mm, $dy=10$ mm
Maximum value of SAR (interpolated) = 0.383 mW/g

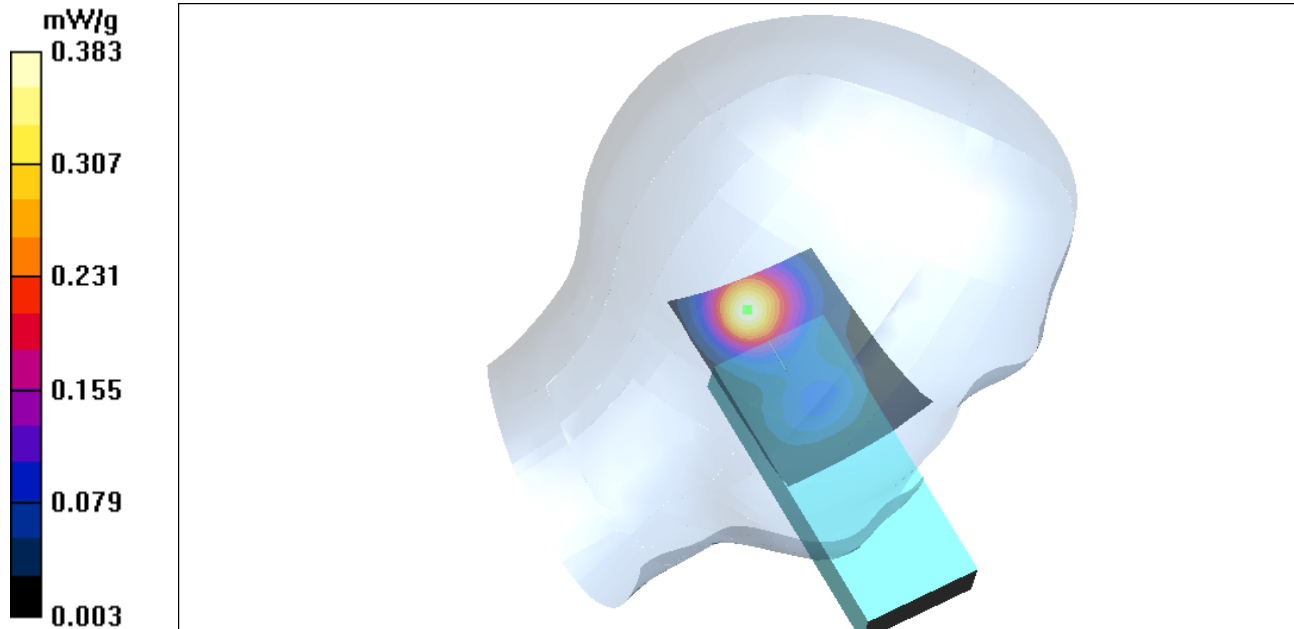
Zoom Scan (7x7x11)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=3$ mm

Reference Value = 11.3 V/m; Power Drift = -0.070 dB

Peak SAR (extrapolated) = 0.563 W/kg

SAR(1 g) = 0.295 mW/g; SAR(10 g) = 0.154 mW/g

Maximum value of SAR (measured) = 0.369 mW/g



2437MHz Right Head Touch, b mode

Date/Time: 6/29/2010 1:53:57 PM

DUT: Cisco; Type: CP-7925

Communication System: DTS ; ; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2437 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.88$ mho/m; $\epsilon_r = 38.7$; $\rho = 1000$ kg/m³

Phantom section: Right Section

- Probe: EX3DV4 - SN3722; ConvF(6.65, 6.65, 6.65); Calibrated: 5/19/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (101x71x1): Measurement grid: $dx=10$ mm, $dy=10$ mm
Maximum value of SAR (interpolated) = 0.250 mW/g

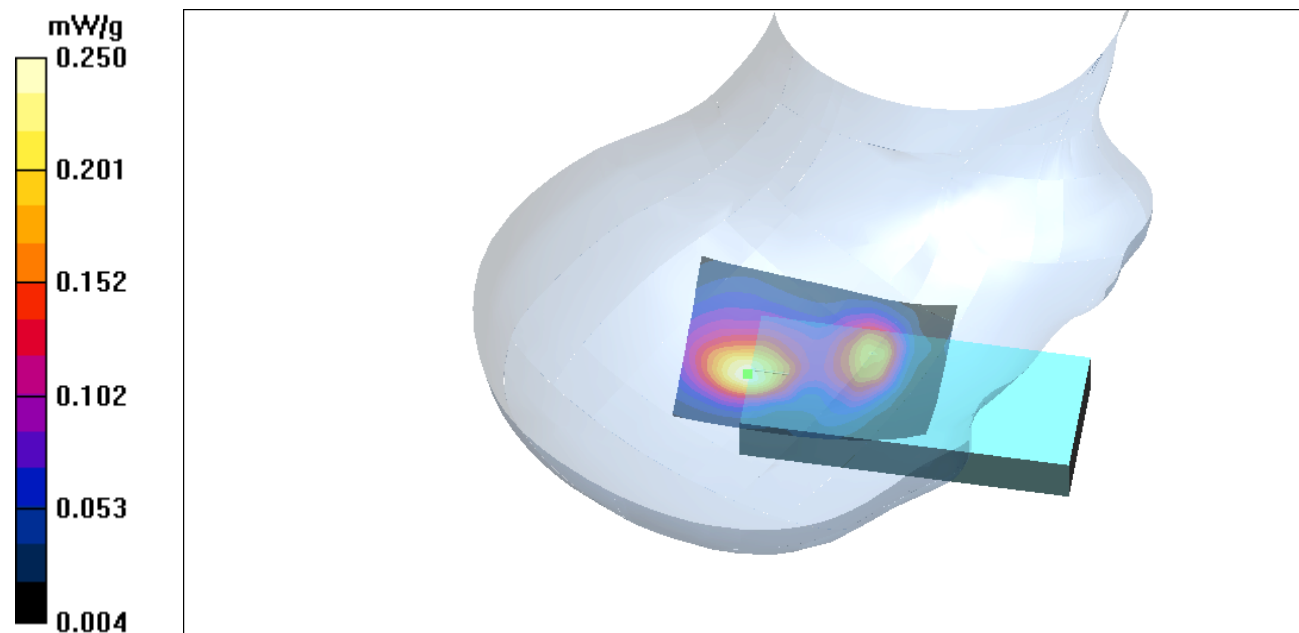
Zoom Scan (7x7x11)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=3$ mm

Reference Value = 9.65 V/m; Power Drift = -0.091 dB

Peak SAR (extrapolated) = 0.343 W/kg

SAR(1 g) = 0.189 mW/g; SAR(10 g) = 0.097 mW/g

Maximum value of SAR (measured) = 0.238 mW/g



2437MHz Right Head Tilt, b mode

Date/Time: 6/29/2010 2:27:02 PM

DUT: Cisco; Type: CP-7925

Communication System: DTS ; ; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2437 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.88$ mho/m; $\epsilon_r = 38.7$; $\rho = 1000$ kg/m³

Phantom section: Right Section

- Probe: EX3DV4 - SN3722; ConvF(6.65, 6.65, 6.65); Calibrated: 5/19/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (101x71x1): Measurement grid: $dx=10$ mm, $dy=10$ mm
Maximum value of SAR (interpolated) = 0.331 mW/g

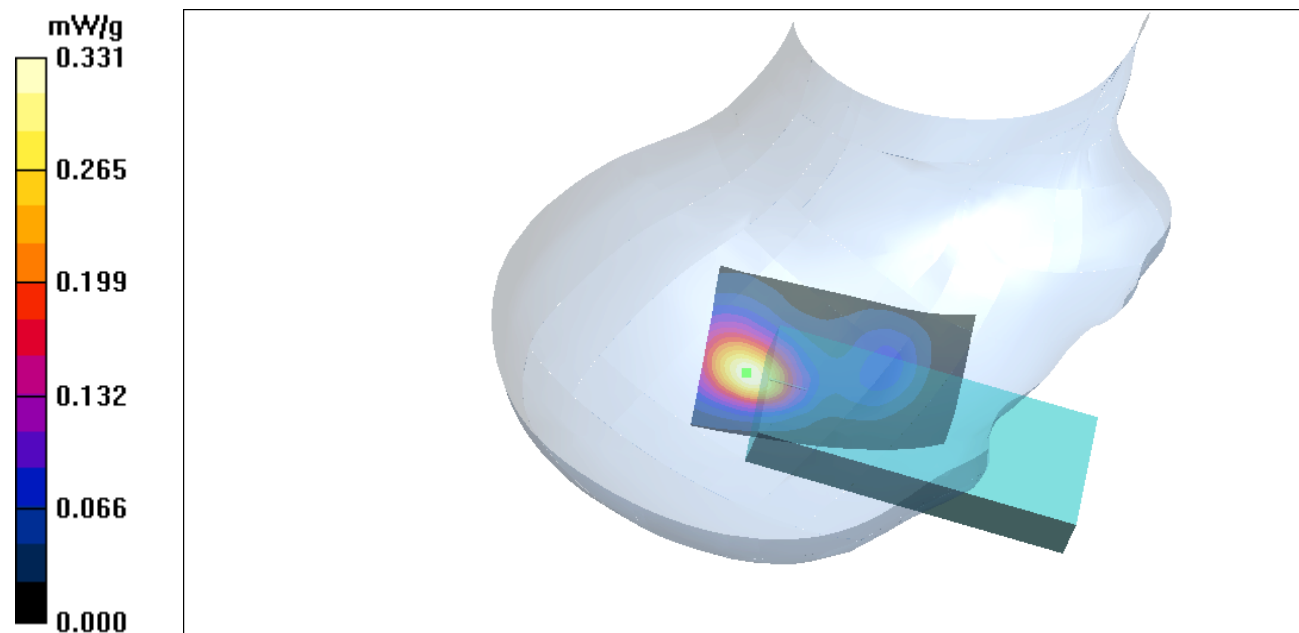
Zoom Scan (7x7x11)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=3$ mm

Reference Value = 11.0 V/m; Power Drift = -0.152 dB

Peak SAR (extrapolated) = 0.501 W/kg

SAR(1 g) = 0.259 mW/g; SAR(10 g) = 0.129 mW/g

Maximum value of SAR (measured) = 0.328 mW/g



2437MHz Right Head Touch, g mode

Date/Time: 6/29/2010 12:02:11 PM

DUT: Cisco; Type: CP-7925

Communication System: DTS ; ; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2437 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.88$ mho/m; $\epsilon_r = 38.7$; $\rho = 1000$ kg/m³

Phantom section: Right Section

- Probe: EX3DV4 - SN3722; ConvF(6.65, 6.65, 6.65); Calibrated: 5/19/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (101x71x1): Measurement grid: $dx=10$ mm, $dy=10$ mm
Maximum value of SAR (interpolated) = 0.302 mW/g

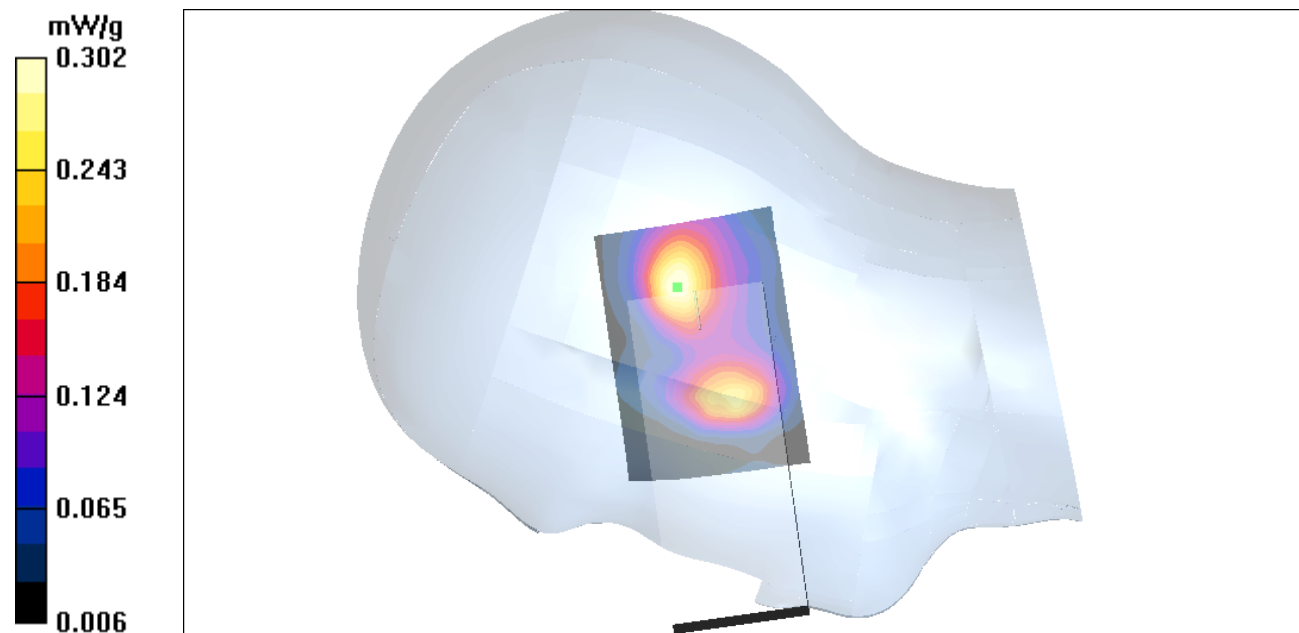
Zoom Scan (7x7x11)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=3$ mm

Reference Value = 11.1 V/m; Power Drift = 0.120 dB

Peak SAR (extrapolated) = 0.434 W/kg

SAR(1 g) = 0.232 mW/g; SAR(10 g) = 0.120 mW/g

Maximum value of SAR (measured) = 0.290 mW/g



2437MHz Right Head Tilt, g mode

Date/Time: 6/29/2010 12:48:04 PM

DUT: Cisco; Type: CP-7925

Communication System: DTS ; ; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2437 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.88$ mho/m; $\epsilon_r = 38.7$; $\rho = 1000$ kg/m³

Phantom section: Right Section

- Probe: EX3DV4 - SN3722; ConvF(6.65, 6.65, 6.65); Calibrated: 5/19/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (101x71x1): Measurement grid: $dx=10$ mm, $dy=10$ mm
Maximum value of SAR (interpolated) = 0.366 mW/g

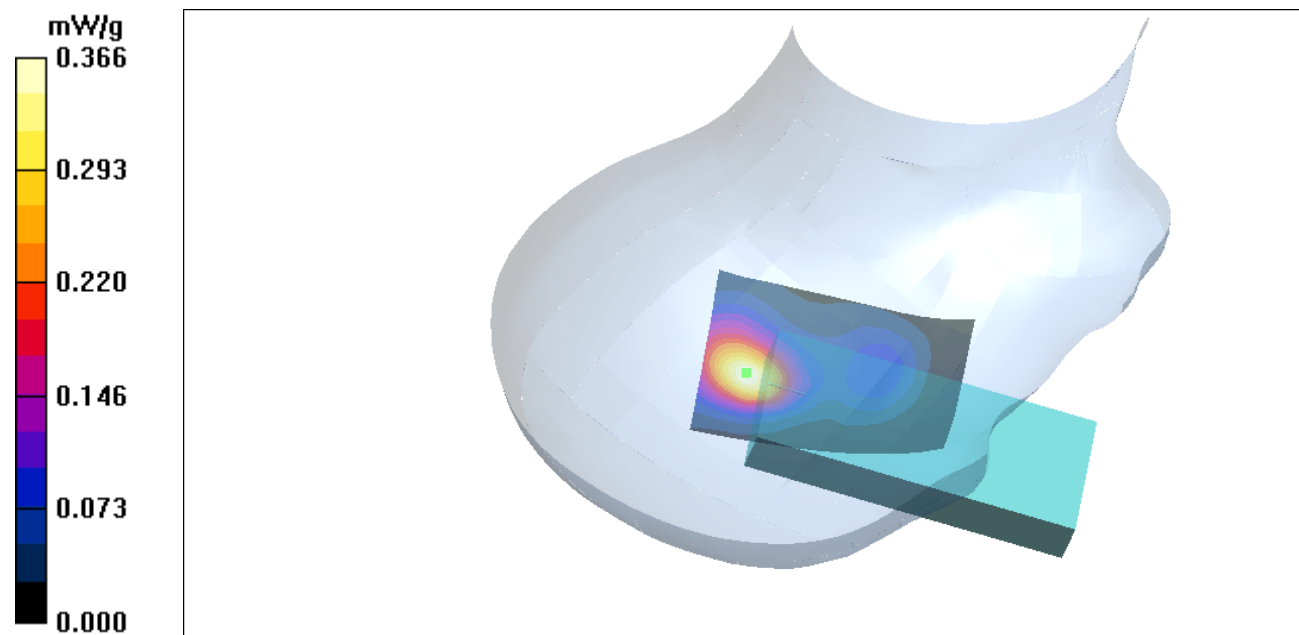
Zoom Scan (7x7x11)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=3$ mm

Reference Value = 11.3 V/m; Power Drift = 0.017 dB

Peak SAR (extrapolated) = 0.563 W/kg

SAR(1 g) = 0.286 mW/g; SAR(10 g) = 0.142 mW/g

Maximum value of SAR (measured) = 0.370 mW/g



2437MHz Left Head Tilt, g mode, Extended 1400mAh Battery

Date/Time: 6/29/2010 5:30:31 PM

DUT: Cisco; Type: CP-7925

Communication System: DTS ; ; Frequency: 2437 MHz;Duty Cycle: 1:1

Medium: HSL2437 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.88$ mho/m; $\epsilon_r = 38.7$; $\rho = 1000$ kg/m³

Phantom section: Left Section

- Probe: EX3DV4 - SN3722; ConvF(6.65, 6.65, 6.65); Calibrated: 5/19/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (101x71x1): Measurement grid: $dx=10$ mm, $dy=10$ mm
Maximum value of SAR (interpolated) = 0.318 mW/g

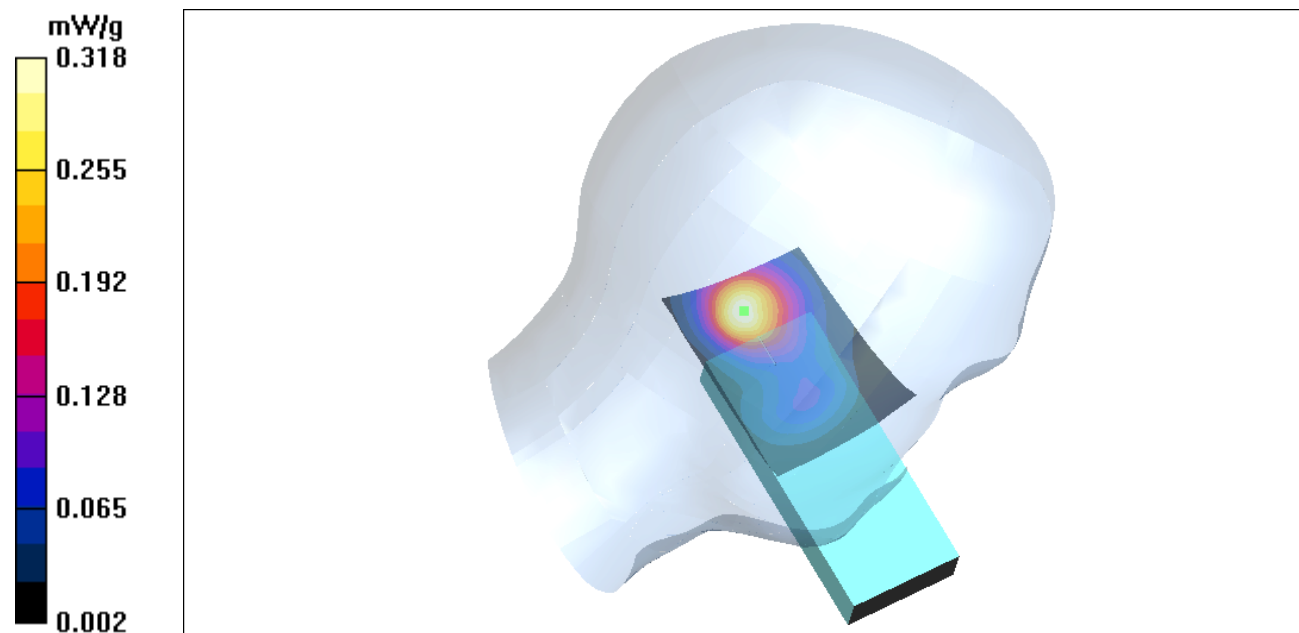
Zoom Scan (7x7x11)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=3$ mm

Reference Value = 11.1 V/m; Power Drift = 0.022 dB

Peak SAR (extrapolated) = 0.511 W/kg

SAR(1 g) = 0.249 mW/g; SAR(10 g) = 0.129 mW/g

Maximum value of SAR (measured) = 0.320 mW/g



2437MHz Body Plastic Holster, Channel 6, B mode

Date/Time: 7/15/2010 3:45:33 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: DTS ; ; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.94$ mho/m; $\epsilon_r = 52$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(6.82, 6.82, 6.82); Calibrated: 5/19/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (121x71x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.214 mW/g

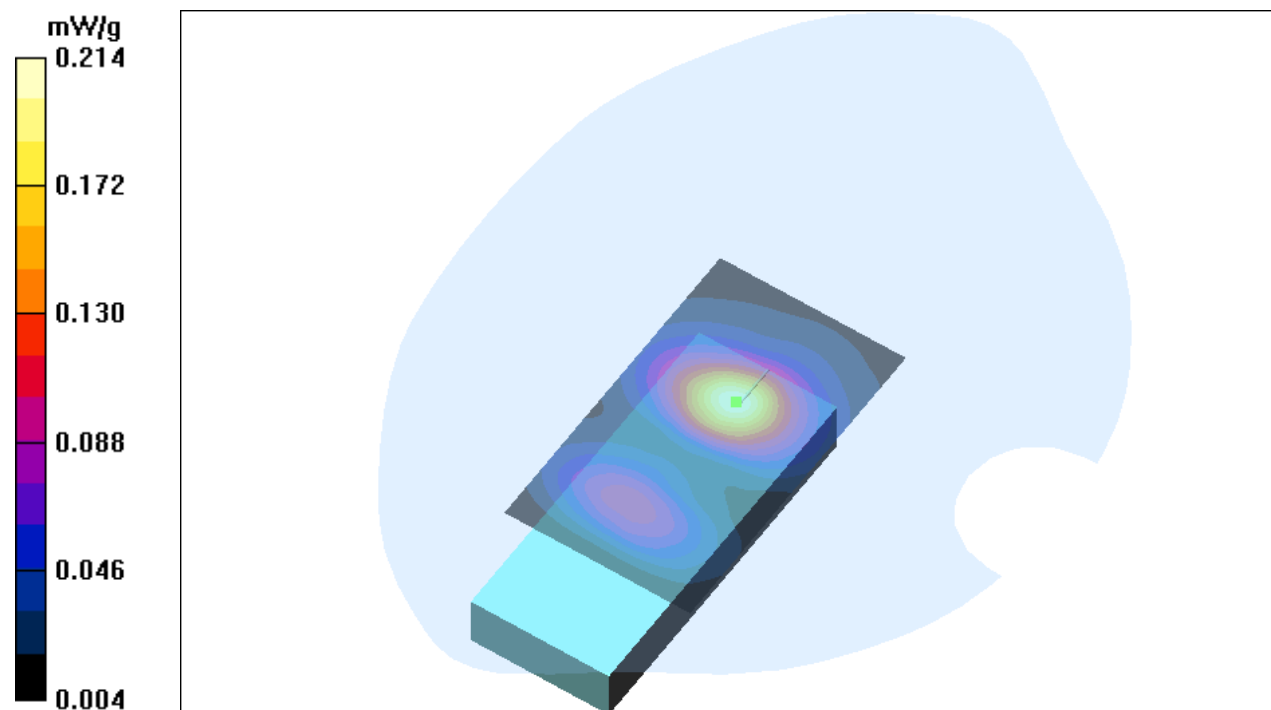
Zoom Scan (7x7x11)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 5.13 V/m; Power Drift = 0.662 dB

Peak SAR (extrapolated) = 0.307 W/kg

SAR(1 g) = 0.165 mW/g; SAR(10 g) = 0.088 mW/g

Maximum value of SAR (measured) = 0.205 mW/g



2437MHz Body Leather Holster, Channel 6, B mode

Date/Time: 7/15/2010 6:27:44 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: DTS ; ; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.94$ mho/m; $\epsilon_r = 52$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(6.82, 6.82, 6.82); Calibrated: 5/19/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (121x71x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.059 mW/g

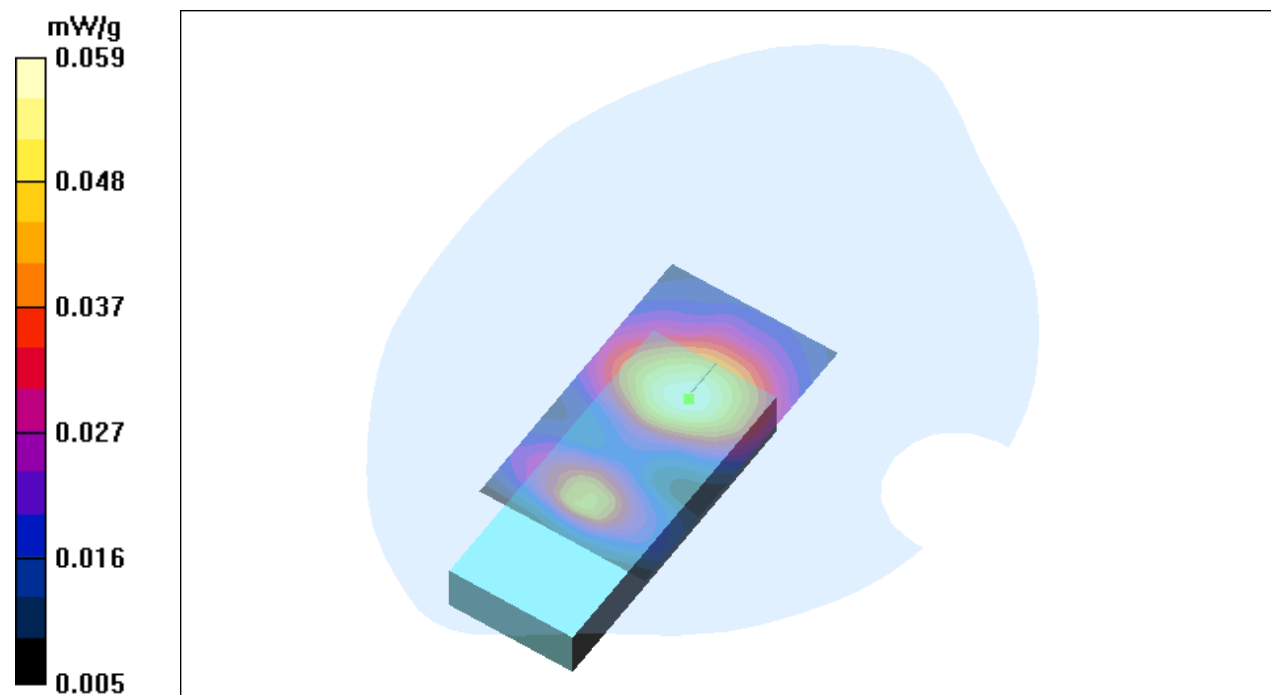
Zoom Scan (7x7x11)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 4.26 V/m; Power Drift = 0.105 dB

Peak SAR (extrapolated) = 0.090 W/kg

SAR(1 g) = 0.050 mW/g; SAR(10 g) = 0.029 mW/g

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



2437MHz Body Plastic Holster, Channel 6, G mode

Date/Time: 7/15/2010 4:53:04 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: DTS ; ; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.94$ mho/m; $\epsilon_r = 52$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(6.82, 6.82, 6.82); Calibrated: 5/19/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (121x71x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.253 mW/g

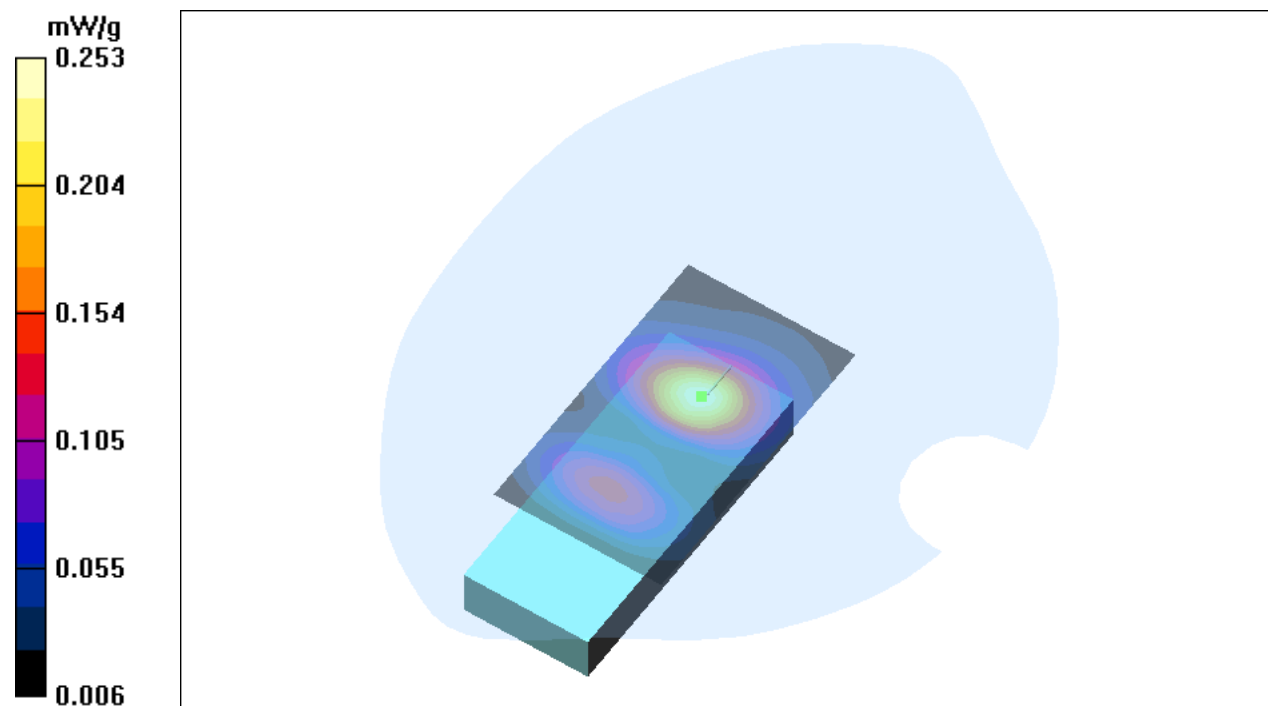
Zoom Scan (7x7x11)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 6.02 V/m; Power Drift = 0.188 dB

Peak SAR (extrapolated) = 0.369 W/kg

SAR(1 g) = 0.201 mW/g; SAR(10 g) = 0.109 mW/g

Maximum value of SAR (measured) = 0.247 mW/g



2437MHz Body Leather Holster, Channel 6, G mode

Date/Time: 7/15/2010 5:19:47 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: DTS ; ; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.94$ mho/m; $\epsilon_r = 52$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(6.82, 6.82, 6.82); Calibrated: 5/19/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (121x71x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.077 mW/g

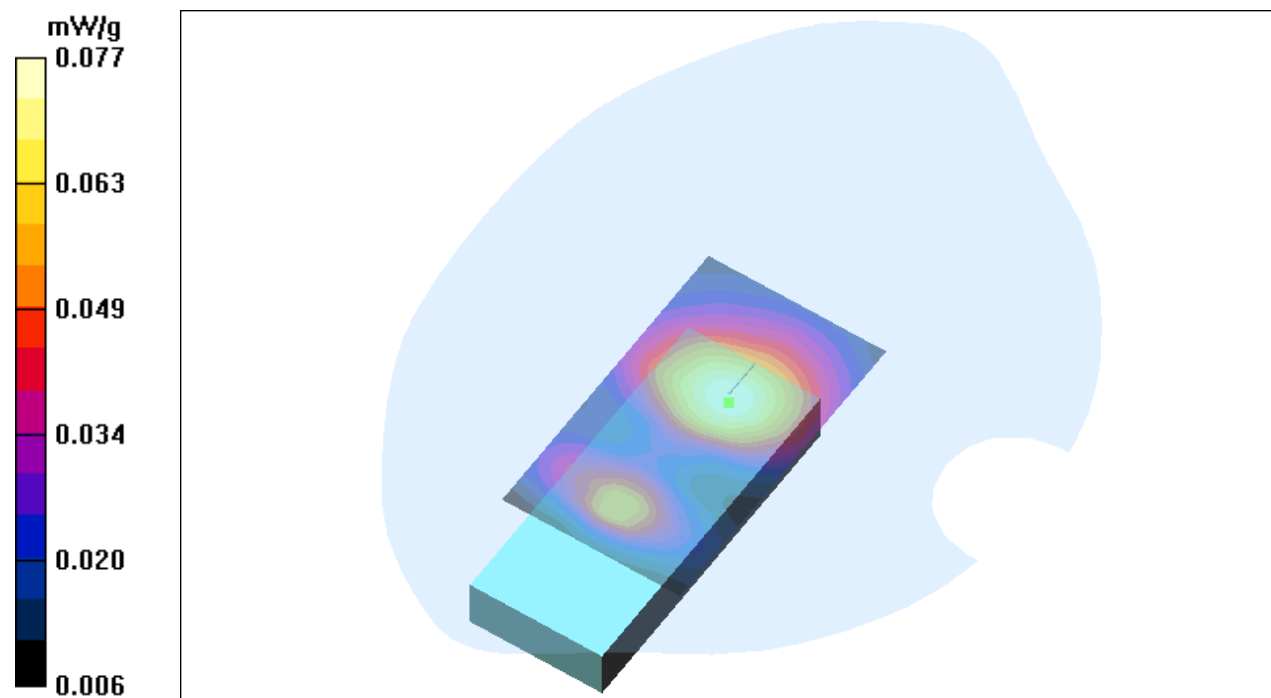
Zoom Scan (7x7x11)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 4.76 V/m; Power Drift = 0.394 dB

Peak SAR (extrapolated) = 0.115 W/kg

SAR(1 g) = 0.063 mW/g; SAR(10 g) = 0.037 mW/g

Maximum value of SAR (measured) = 0.076 mW/g



2437MHz Body Plastic Holster, Channel 6, G mode with extended battery

Date/Time: 7/15/2010 6:58:17 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: DTS ; ; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.94$ mho/m; $\epsilon_r = 52$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(6.82, 6.82, 6.82); Calibrated: 5/19/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (121x71x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.247 mW/g

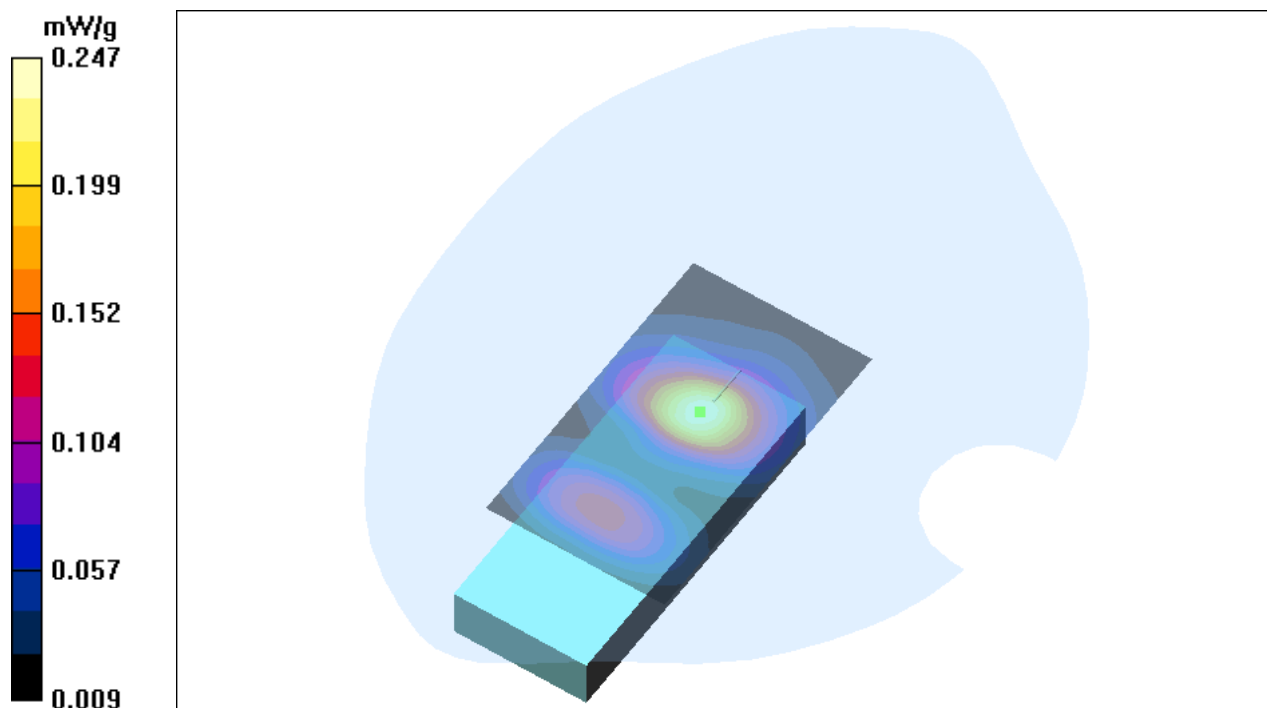
Zoom Scan (7x7x11)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 5.23 V/m; Power Drift = 0.368 dB

Peak SAR (extrapolated) = 0.381 W/kg

SAR(1 g) = 0.200 mW/g; SAR(10 g) = 0.108 mW/g

Maximum value of SAR (measured) = 0.246 mW/g



2437MHz Body Plastic Holster with bluetooth, g mode

Date/Time: 7/15/2010 7:34:45 PM

DUT: Cisco; Type: CP-7925G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: DTS ; ; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.94$ mho/m; $\epsilon_r = 52$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(6.82, 6.82, 6.82); Calibrated: 5/19/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (121x71x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (interpolated) = 0.269 mW/g

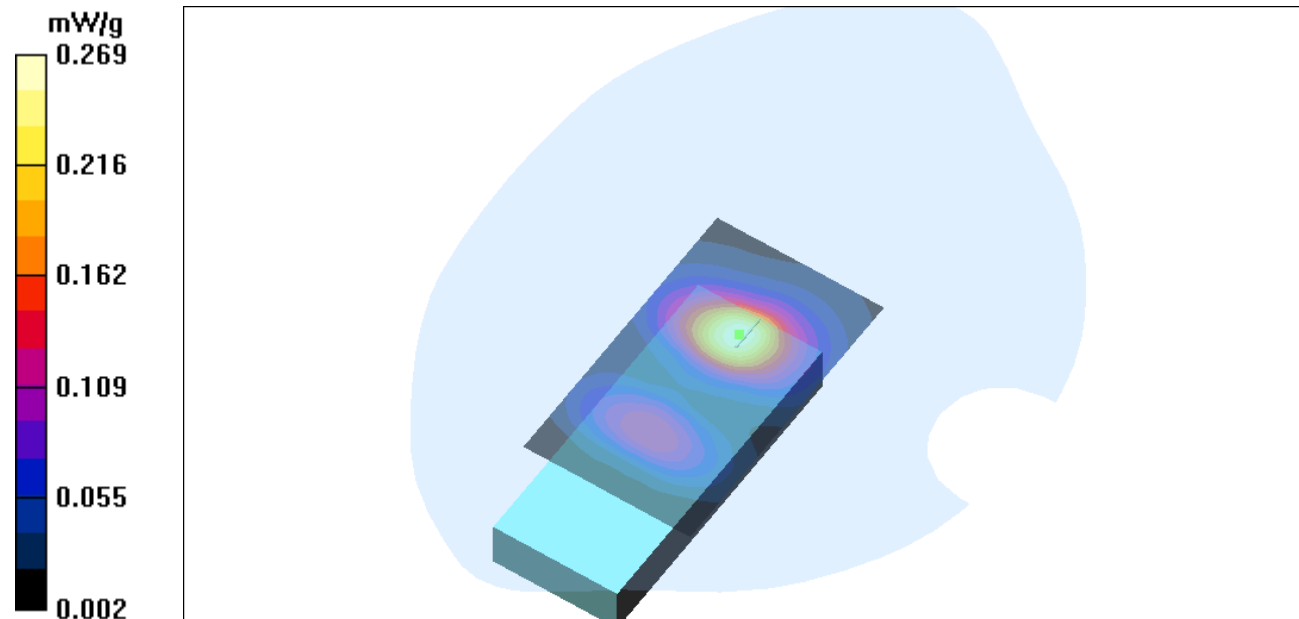
Zoom Scan (7x7x11)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=3$ mm

Reference Value = 8.23 V/m; Power Drift = -0.095 dB

Peak SAR (extrapolated) = 0.406 W/kg

SAR(1 g) = 0.213 mW/g; SAR(10 g) = 0.112 mW/g

Maximum value of SAR (measured) = 0.265 mW/g



5180 MHz, Channel 36, Head Tilt, A mode

Date/Time: 7/13/2010 10:46:30 AM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 24.0 deg C, Fluid Temp: 22.3 deg C

Communication System: OFDM; ; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Body Medium parameters used: $f = 5200$ MHz; $\sigma = 4.82$ mho/m; $\epsilon_r = 34.6$; $\rho = 1000$ kg/m³

Phantom section: Left Section

- Probe: EX3DV4 - SN3722; ConvF(4.65, 4.65, 4.65); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Maximum value of SAR (interpolated) = 1.25 mW/g

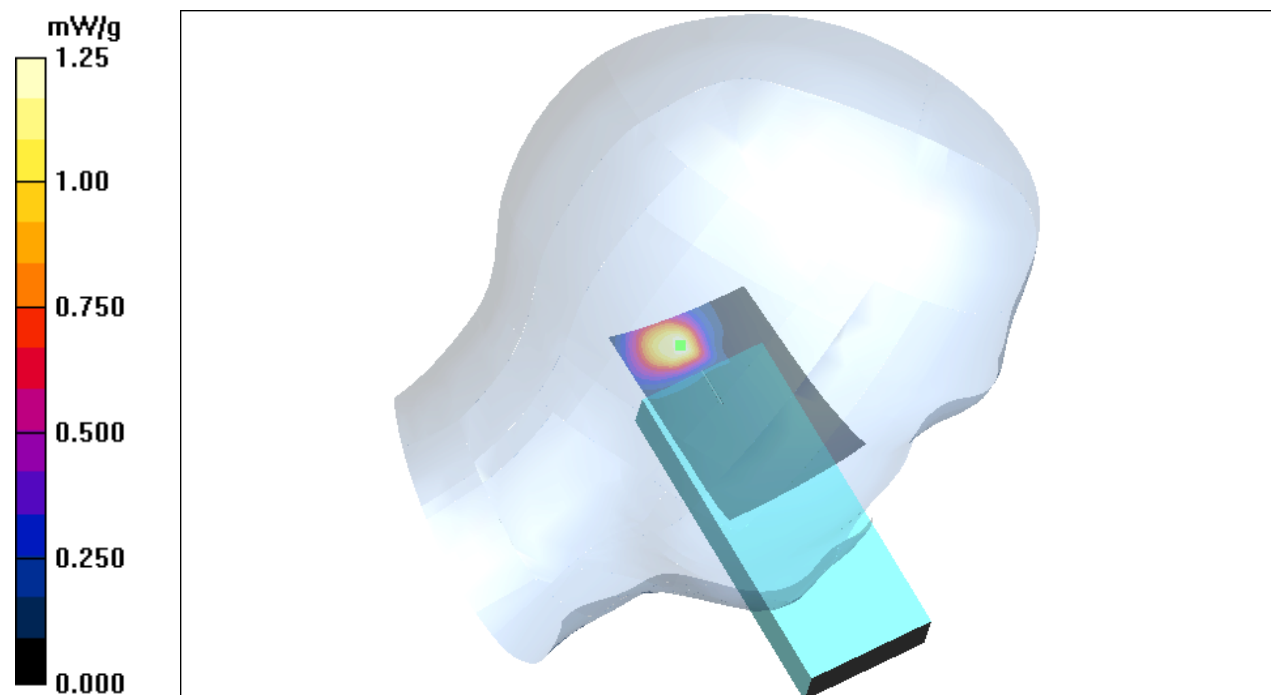
Zoom Scan (11x11x12)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 8.41 V/m; Power Drift = 0.160 dB

Peak SAR (extrapolated) = 2.29 W/kg

SAR(1 g) = 0.688 mW/g; SAR(10 g) = 0.261 mW/g

Maximum value of SAR (measured) = 1.28 mW/g



5180 MHz, Channel 36, Head Touch, A mode

Date/Time: 7/13/2010 8:47:18 AM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 24.0 deg C, Fluid Temp: 22.3 deg C

Communication System: OFDM; ; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Body Medium parameters used: $f = 5200$ MHz; $\sigma = 4.82$ mho/m; $\epsilon_r = 34.6$; $\rho = 1000$ kg/m³

Phantom section: Left Section

- Probe: EX3DV4 - SN3722; ConvF(4.65, 4.65, 4.65); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (101x71x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.24 mW/g

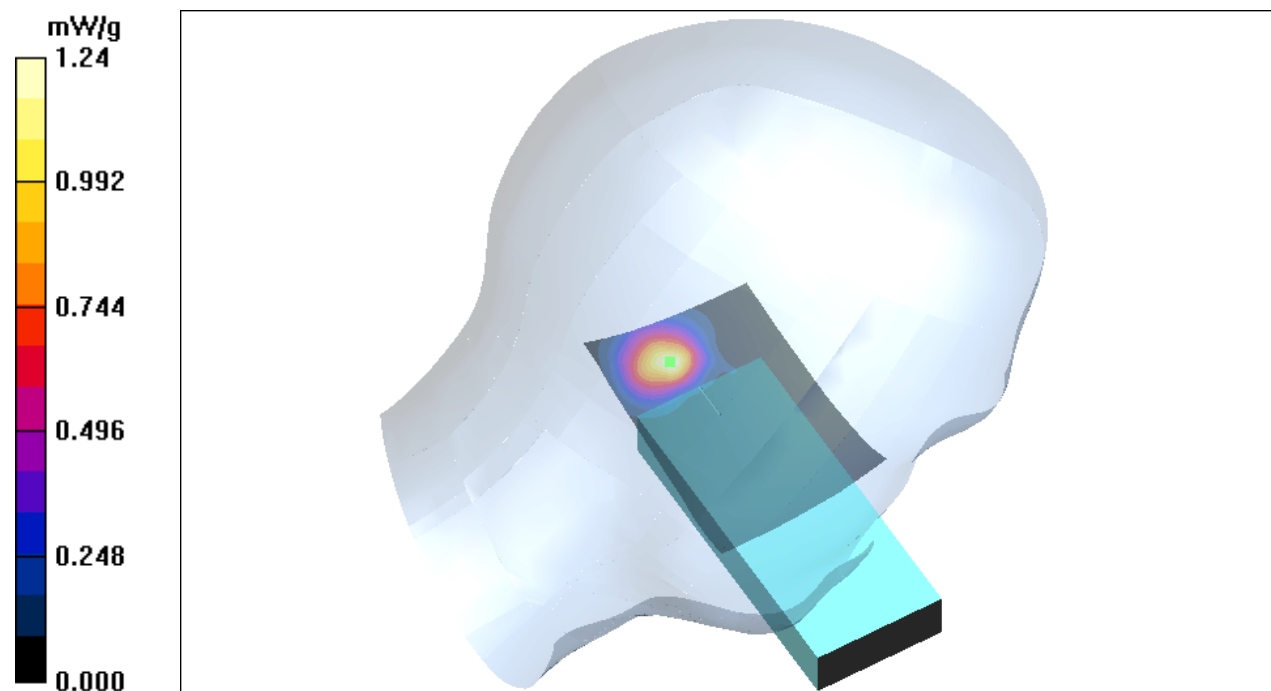
Zoom Scan (11x11x16)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 7.98 V/m; Power Drift = -0.293 dB

Peak SAR (extrapolated) = 1.89 W/kg

SAR(1 g) = 0.595 mW/g; SAR(10 g) = 0.232 mW/g

Maximum value of SAR (measured) = 1.06 mW/g



5240 MHz, Channel 48, Head Tilt, A mode

Date/Time: 7/13/2010 12:45:11 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: HSL5800 Medium parameters used: $f = 5200$ MHz; $\sigma = 4.82$ mho/m; $\epsilon_r = 34.6$; $\rho = 1000$ kg/m³

Phantom section: Left Section

- Probe: EX3DV4 - SN3722; ConvF(4.65, 4.65, 4.65); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

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

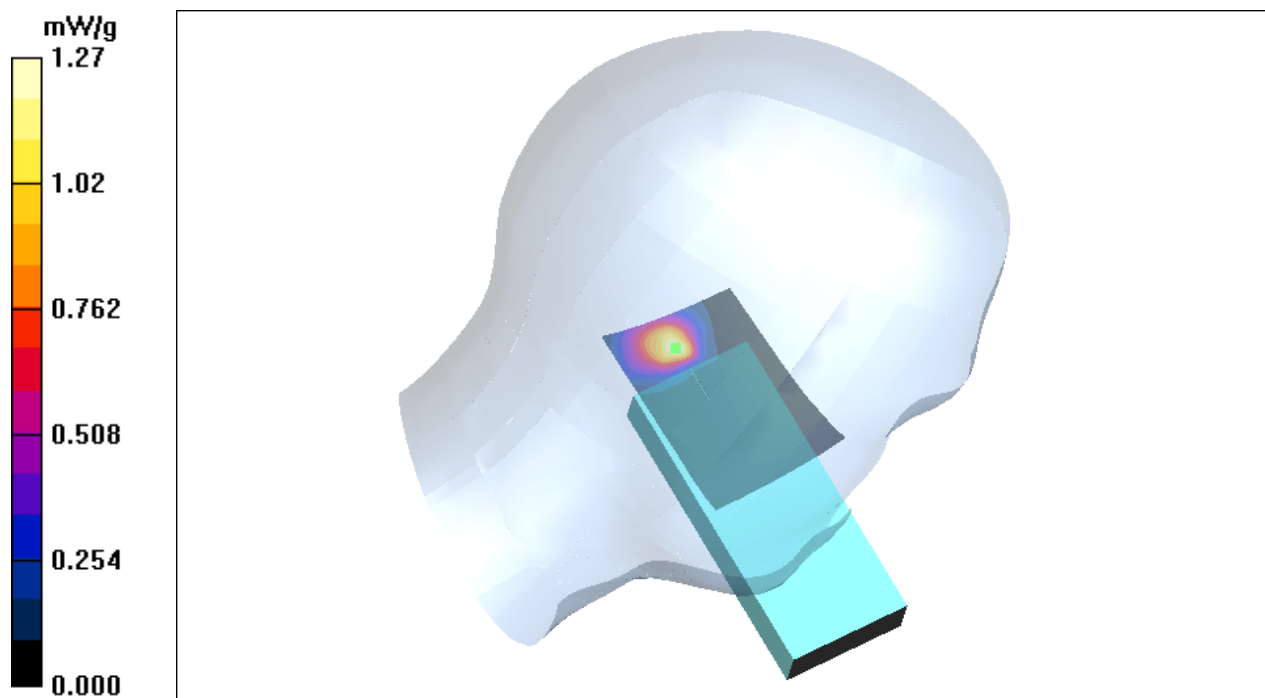
Zoom Scan (11x11x12)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 9.63 V/m; Power Drift = 0.148 dB

Peak SAR (extrapolated) = 2.18 W/kg

SAR(1 g) = 0.642 mW/g; SAR(10 g) = 0.234 mW/g

Maximum value of SAR (measured) = 1.21 mW/g



5240 MHz, Channel 48, Head Touch, A mode

Date/Time: 7/13/2010 11:58:53 AM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: HSL5800 Medium parameters used: $f = 5200$ MHz; $\sigma = 4.82$ mho/m; $\epsilon_r = 34.6$; $\rho = 1000$ kg/m³

Phantom section: Left Section

- Probe: EX3DV4 - SN3722; ConvF(4.65, 4.65, 4.65); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Maximum value of SAR (interpolated) = 1.07 mW/g

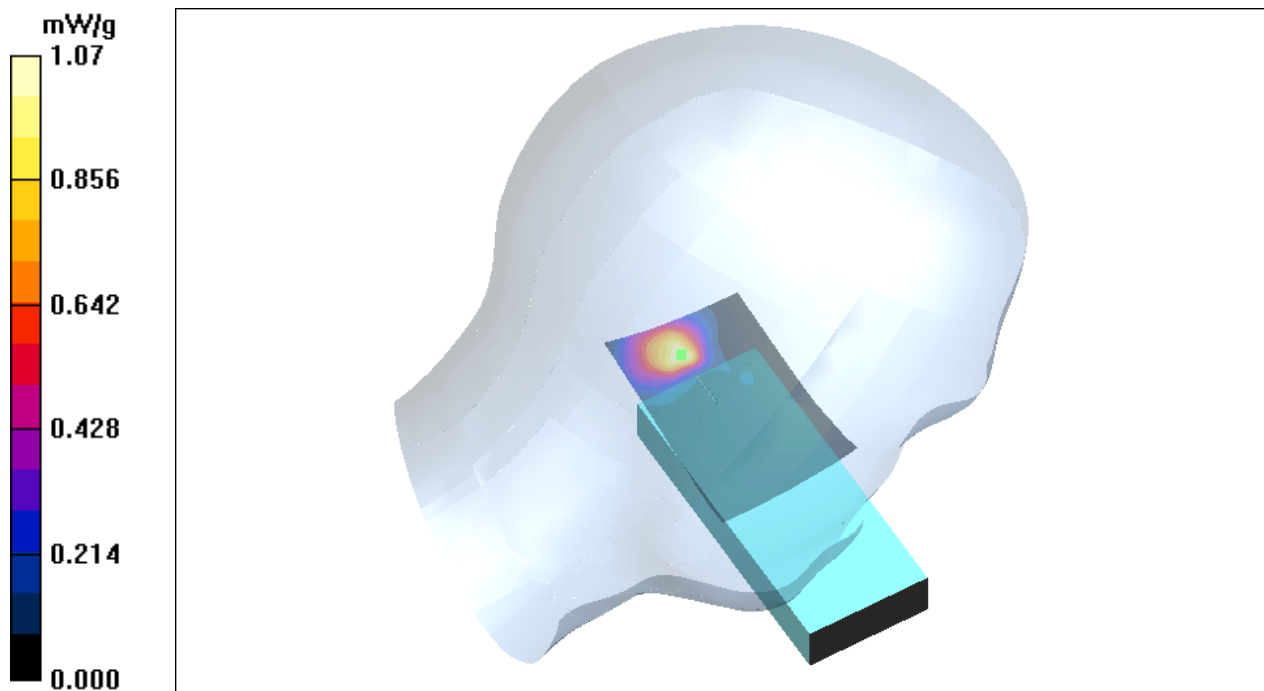
Zoom Scan (11x11x12)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 8.46 V/m; Power Drift = 0.310 dB

Peak SAR (extrapolated) = 1.82 W/kg

SAR(1 g) = 0.534 mW/g; SAR(10 g) = 0.199 mW/g

Maximum value of SAR (measured) = 1.01 mW/g



5260 MHz, Channel 52, Head Tilt, A mode

Date/Time: 7/13/2010 2:09:39 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: HSL5800 Medium parameters used: $f = 5200$ MHz; $\sigma = 4.82$ mho/m; $\epsilon_r = 34.6$; $\rho = 1000$ kg/m³

Phantom section: Left Section

- Probe: EX3DV4 - SN3722; ConvF(4.65, 4.65, 4.65); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Maximum value of SAR (interpolated) = 1.25 mW/g

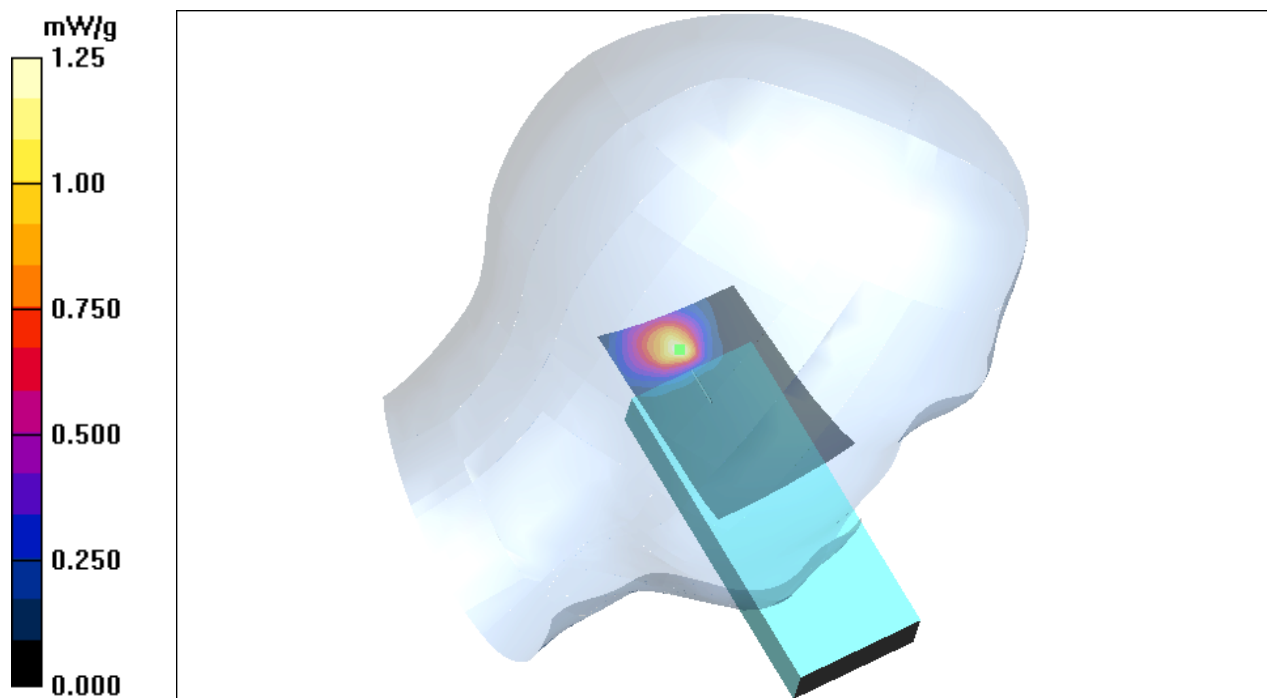
Zoom Scan (11x11x12)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 9.95 V/m; Power Drift = -0.051 dB

Peak SAR (extrapolated) = 2.09 W/kg

SAR(1 g) = 0.603 mW/g; SAR(10 g) = 0.219 mW/g

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



5260 MHz, Channel 52, Head Touch, A mode

Date/Time: 7/13/2010 1:29:04 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: HSL5800 Medium parameters used: $f = 5200$ MHz; $\sigma = 4.82$ mho/m; $\epsilon_r = 34.6$; $\rho = 1000$ kg/m³

Phantom section: Left Section

- Probe: EX3DV4 - SN3722; ConvF(4.65, 4.65, 4.65); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Maximum value of SAR (interpolated) = 1.08 mW/g

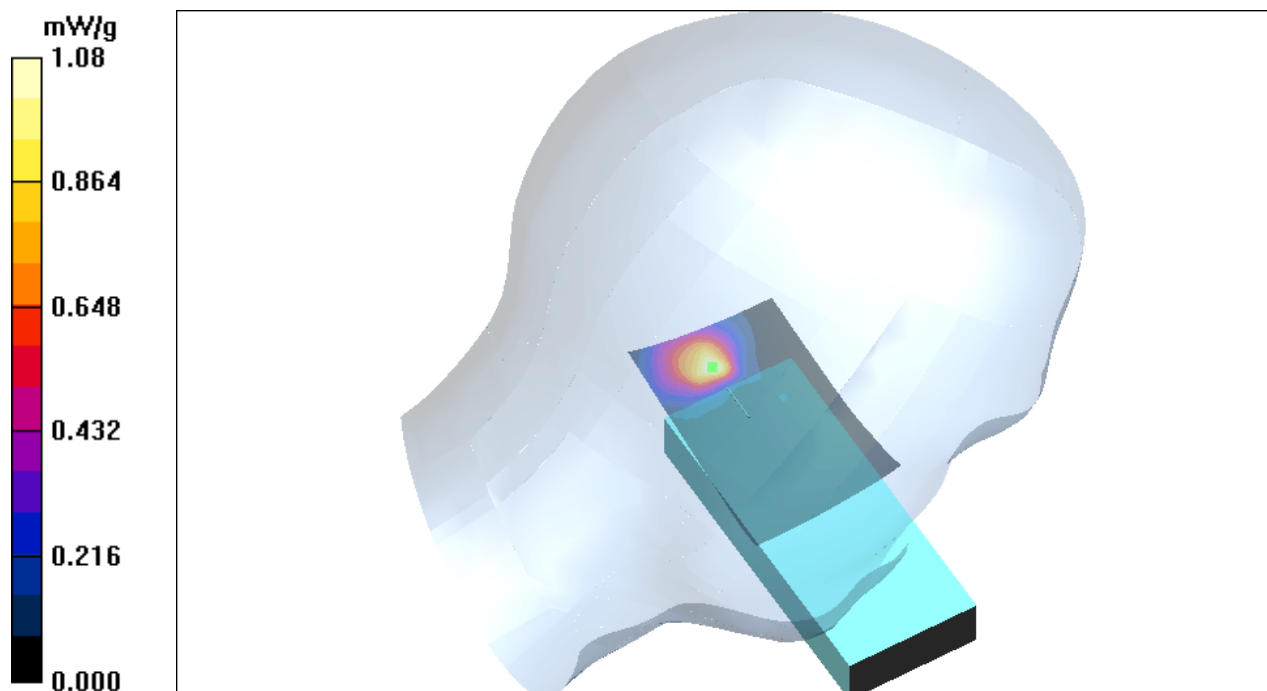
Zoom Scan (11x11x12)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 8.83 V/m; Power Drift = 0.328 dB

Peak SAR (extrapolated) = 1.83 W/kg

SAR(1 g) = 0.529 mW/g; SAR(10 g) = 0.196 mW/g

Maximum value of SAR (measured) = 0.989 mW/g



5320 MHz, Channel 64, Head Tilt, A mode

Date/Time: 7/13/2010 3:37:06 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: HSL5800 Medium parameters used: $f = 5200$ MHz; $\sigma = 4.82$ mho/m; $\epsilon_r = 34.6$; $\rho = 1000$ kg/m³

Phantom section: Left Section

- Probe: EX3DV4 - SN3722; ConvF(4.65, 4.65, 4.65); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Maximum value of SAR (interpolated) = 1.17 mW/g

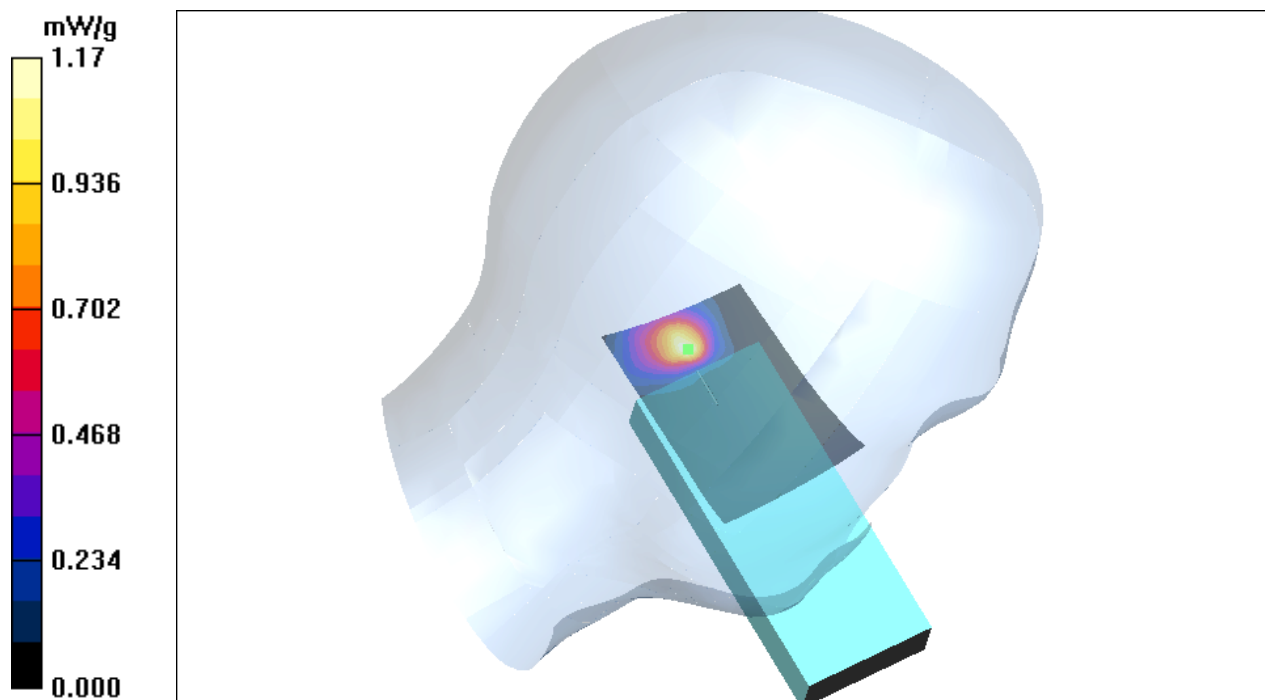
Zoom Scan (11x11x12)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 9.83 V/m; Power Drift = 0.045 dB

Peak SAR (extrapolated) = 2.02 W/kg

SAR(1 g) = 0.579 mW/g; SAR(10 g) = 0.202 mW/g

Maximum value of SAR (measured) = 1.10 mW/g



5320 MHz, Channel 64, Head Touch, A mode

Date/Time: 7/13/2010 2:53:37 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: HSL5800 Medium parameters used: $f = 5200$ MHz; $\sigma = 4.82$ mho/m; $\epsilon_r = 34.6$; $\rho = 1000$ kg/m³

Phantom section: Left Section

- Probe: EX3DV4 - SN3722; ConvF(4.65, 4.65, 4.65); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Maximum value of SAR (interpolated) = 0.991 mW/g

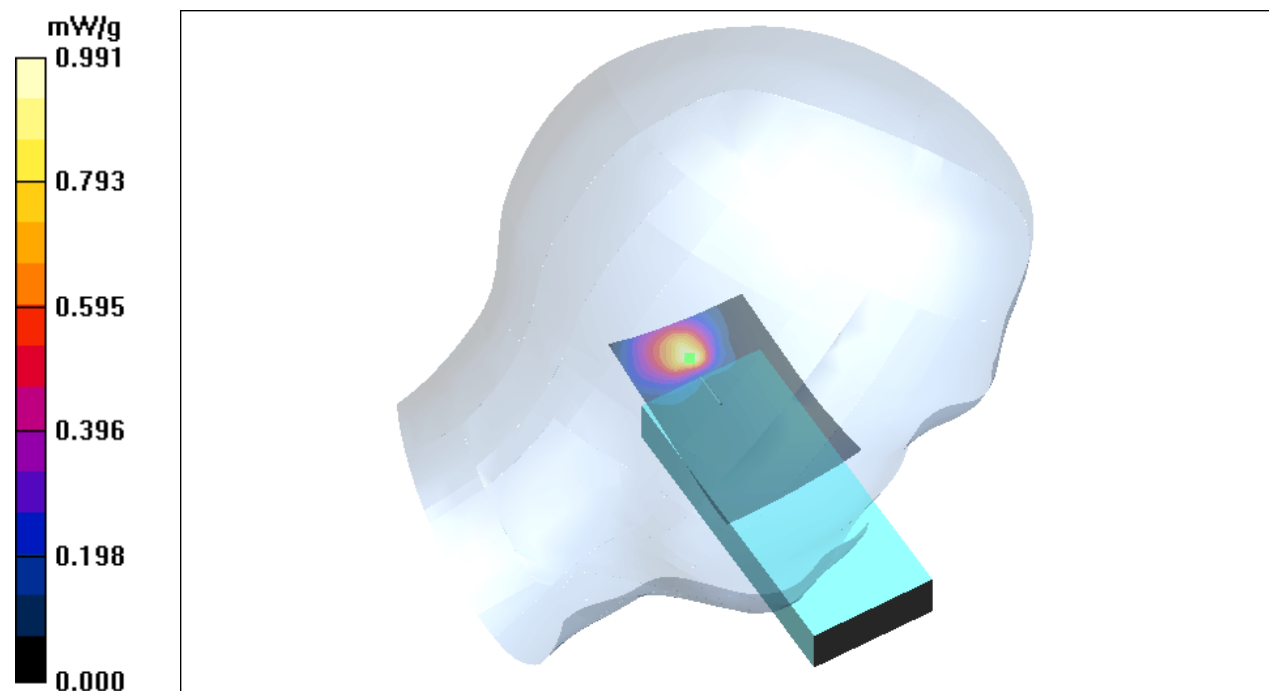
Zoom Scan (11x11x12)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 9.09 V/m; Power Drift = 0.110 dB

Peak SAR (extrapolated) = 2.01 W/kg

SAR(1 g) = 0.490 mW/g; SAR(10 g) = 0.183 mW/g

Maximum value of SAR (measured) = 0.918 mW/g



5520MHz, Channel 104, Head Tilt, A mode

Date/Time: 7/13/2010 5:04:06 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: HSL5800 Medium parameters used: $f = 5500$ MHz; $\sigma = 5.13$ mho/m; $\epsilon_r = 34$; $\rho = 1000$ kg/m³

Phantom section: Left Section

- Probe: EX3DV4 - SN3722; ConvF(4.3, 4.3, 4.3); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Maximum value of SAR (interpolated) = 1.67 mW/g

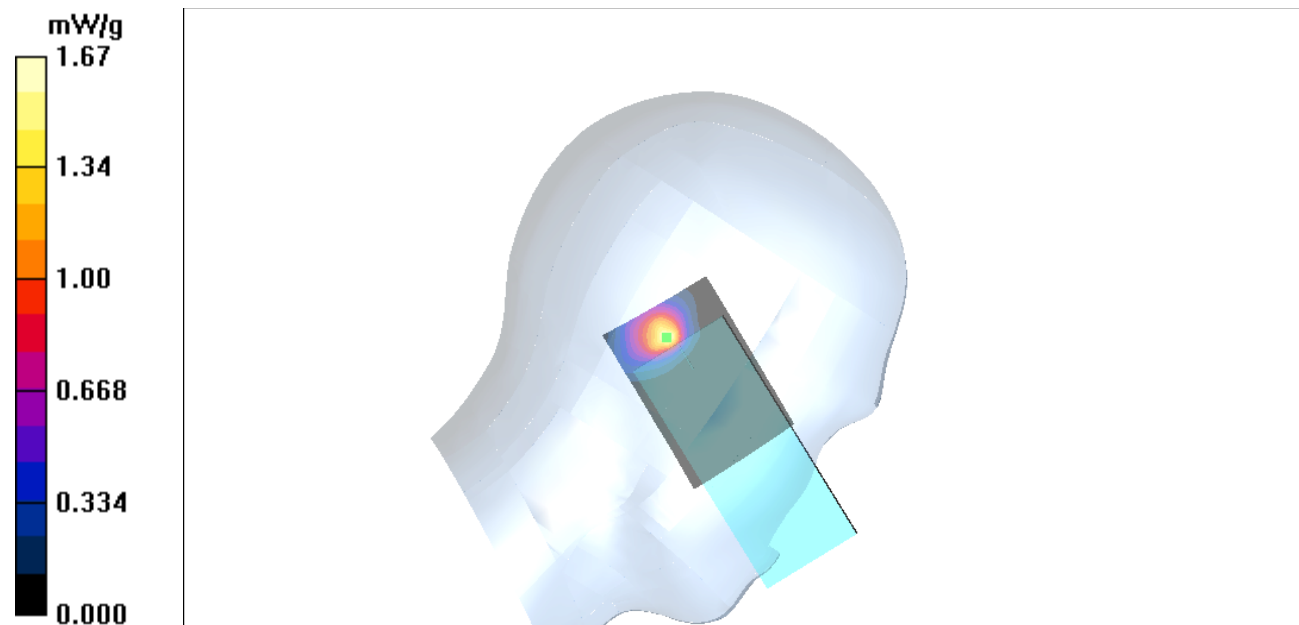
Zoom Scan (11x11x12)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 11.6 V/m; Power Drift = -0.64 dB

Peak SAR (extrapolated) = 2.87 W/kg

SAR(1 g) = 0.778 mW/g; SAR(10 g) = 0.267 mW/g

Maximum value of SAR (measured) = 1.52 mW/g



5520 MHz, Channel 104, Head Touch, A mode

Date/Time: 7/13/2010 4:21:29 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: HSL5800 Medium parameters used: $f = 5500$ MHz; $\sigma = 5.13$ mho/m; $\epsilon_r = 34$; $\rho = 1000$ kg/m³

Phantom section: Left Section

- Probe: EX3DV4 - SN3722; ConvF(4.3, 4.3, 4.3); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Maximum value of SAR (interpolated) = 1.41 mW/g

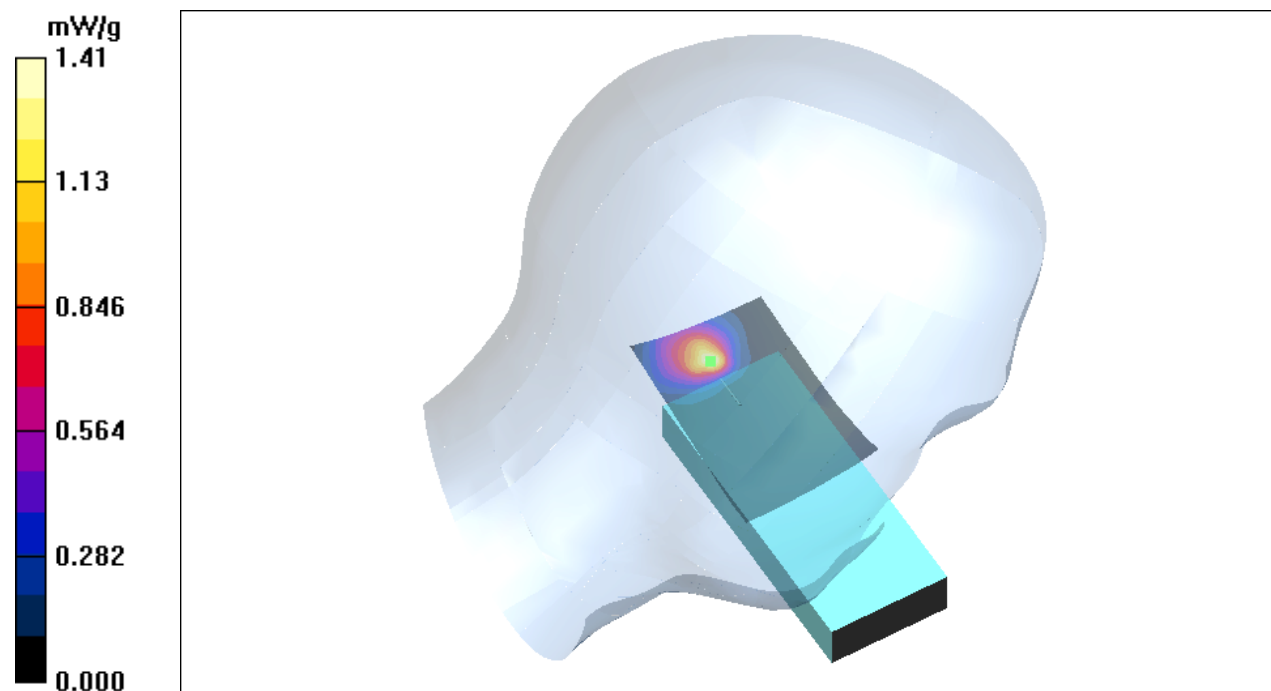
Zoom Scan (11x11x12)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 10.5 V/m; Power Drift = 0.256 dB

Peak SAR (extrapolated) = 2.49 W/kg

SAR(1 g) = 0.672 mW/g; SAR(10 g) = 0.236 mW/g

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



5580MHz, Channel 116, Head Tilt, A mode

Date/Time: 7/13/2010 6:35:47 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: HSL5800 Medium parameters used: $f = 5500$ MHz; $\sigma = 5.13$ mho/m; $\epsilon_r = 34$; $\rho = 1000$ kg/m³

Phantom section: Left Section

- Probe: EX3DV4 - SN3722; ConvF(4.3, 4.3, 4.3); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x91x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (interpolated) = 2.37 mW/g

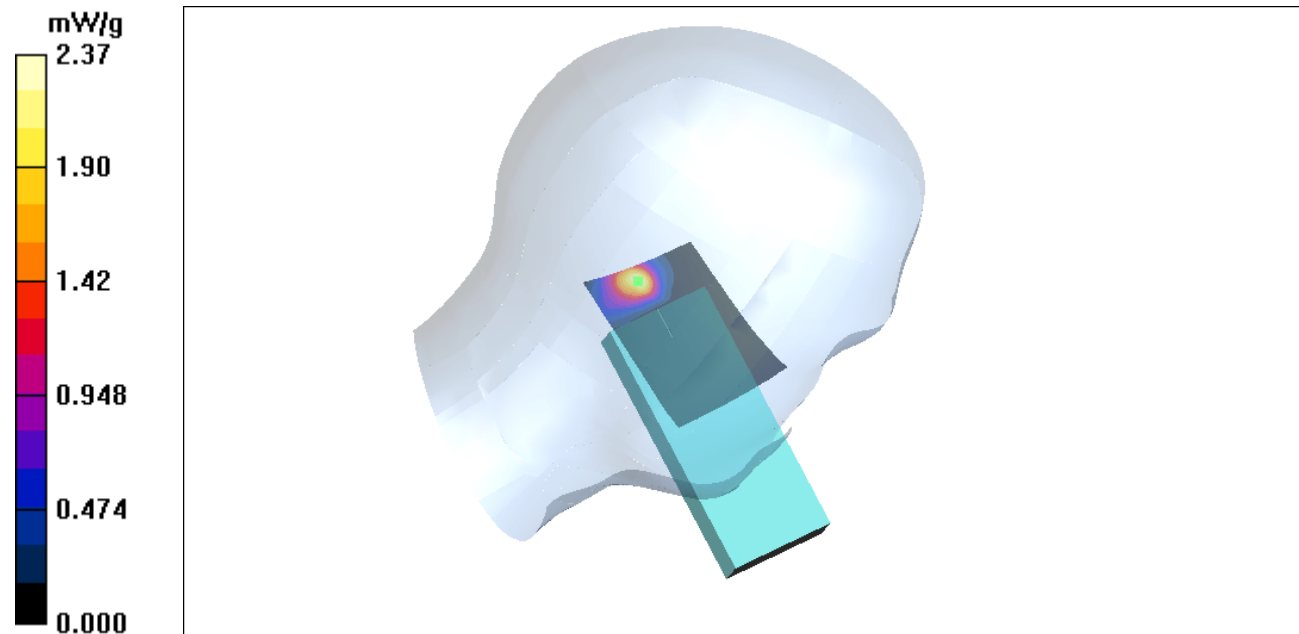
Zoom Scan (11x11x12)/Cube 0: Measurement grid: $dx=3$ mm, $dy=3$ mm, $dz=2$ mm

Reference Value = 8.20 V/m; Power Drift = 0.327 dB

Peak SAR (extrapolated) = 4.06 W/kg

SAR(1 g) = 1.12 mW/g; SAR(10 g) = 0.395 mW/g

Maximum value of SAR (measured) = 2.11 mW/g



5580MHz, Channel 116, Head Touch, A mode

Date/Time: 7/13/2010 5:52:53 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: HSL5800 Medium parameters used: $f = 5500$ MHz; $\sigma = 5.13$ mho/m; $\epsilon_r = 34$; $\rho = 1000$ kg/m³

Phantom section: Left Section

- Probe: EX3DV4 - SN3722; ConvF(4.3, 4.3, 4.3); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Maximum value of SAR (interpolated) = 2.04 mW/g

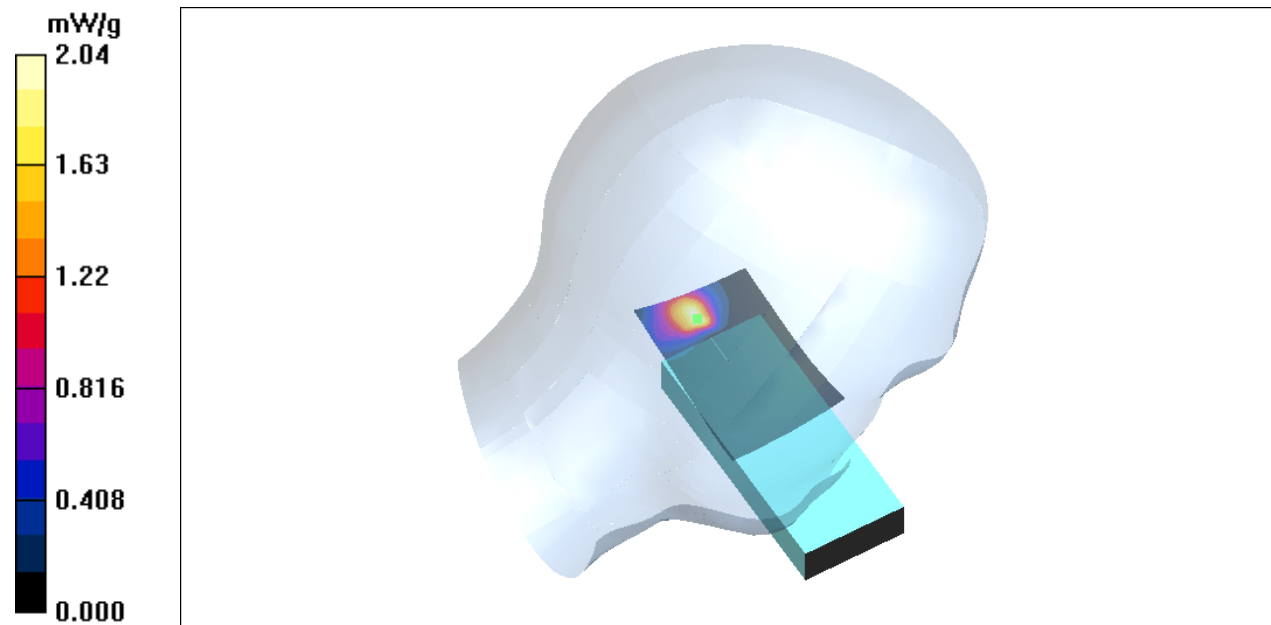
Zoom Scan (11x11x12)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 9.92 V/m; Power Drift = 0.187 dB

Peak SAR (extrapolated) = 4.12 W/kg

SAR(1 g) = 0.974 mW/g; SAR(10 g) = 0.340 mW/g

Maximum value of SAR (measured) = 1.87 mW/g



5620MHz Head Tilt, Channel 124, A mode

Date/Time: 7/13/2010 8:00:14 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: HSL5800 Medium parameters used: $f = 5500$ MHz; $\sigma = 5.13$ mho/m; $\epsilon_r = 34$; $\rho = 1000$ kg/m³

Phantom section: Left Section

- Probe: EX3DV4 - SN3722; ConvF(4.3, 4.3, 4.3); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Maximum value of SAR (interpolated) = 1.87 mW/g

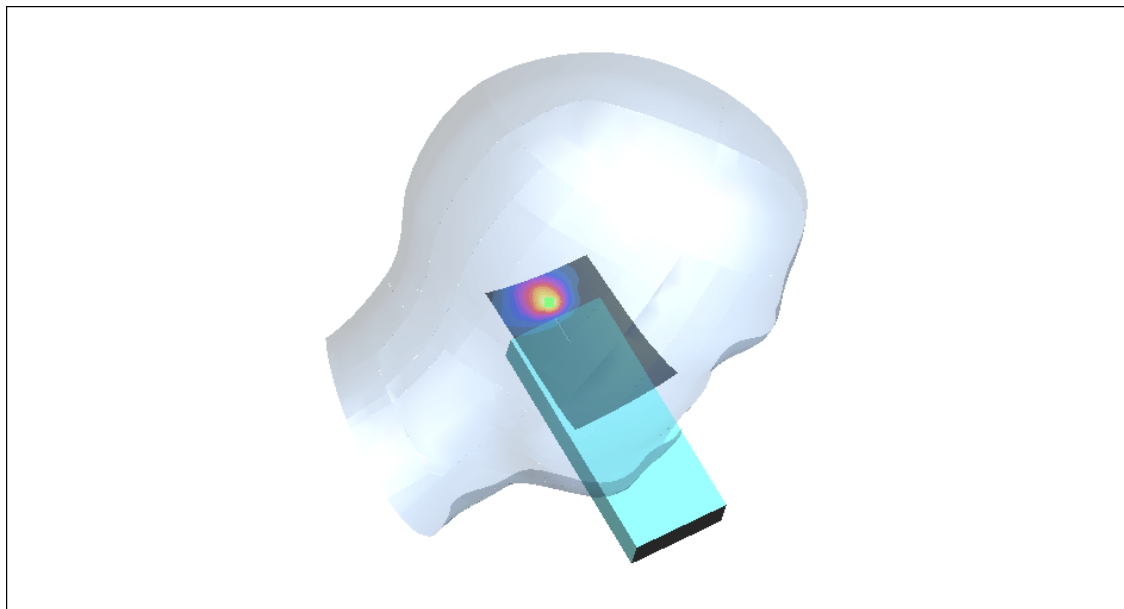
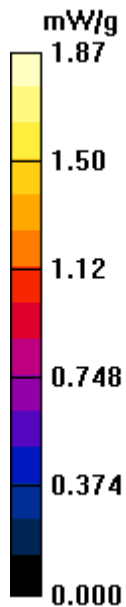
Zoom Scan (11x11x12)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 12.1 V/m; Power Drift = 0.010 dB

Peak SAR (extrapolated) = 3.24 W/kg

SAR(1 g) = 0.858 mW/g; SAR(10 g) = 0.286 mW/g

Maximum value of SAR (measured) = 1.65 mW/g



5620MHz Head Touch, Channel 124, A mode

Date/Time: 7/13/2010 7:19:44 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: HSL5800 Medium parameters used: $f = 5500$ MHz; $\sigma = 5.13$ mho/m; $\epsilon_r = 34$; $\rho = 1000$ kg/m³

Phantom section: Left Section

- Probe: EX3DV4 - SN3722; ConvF(4.3, 4.3, 4.3); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Maximum value of SAR (interpolated) = 1.70 mW/g

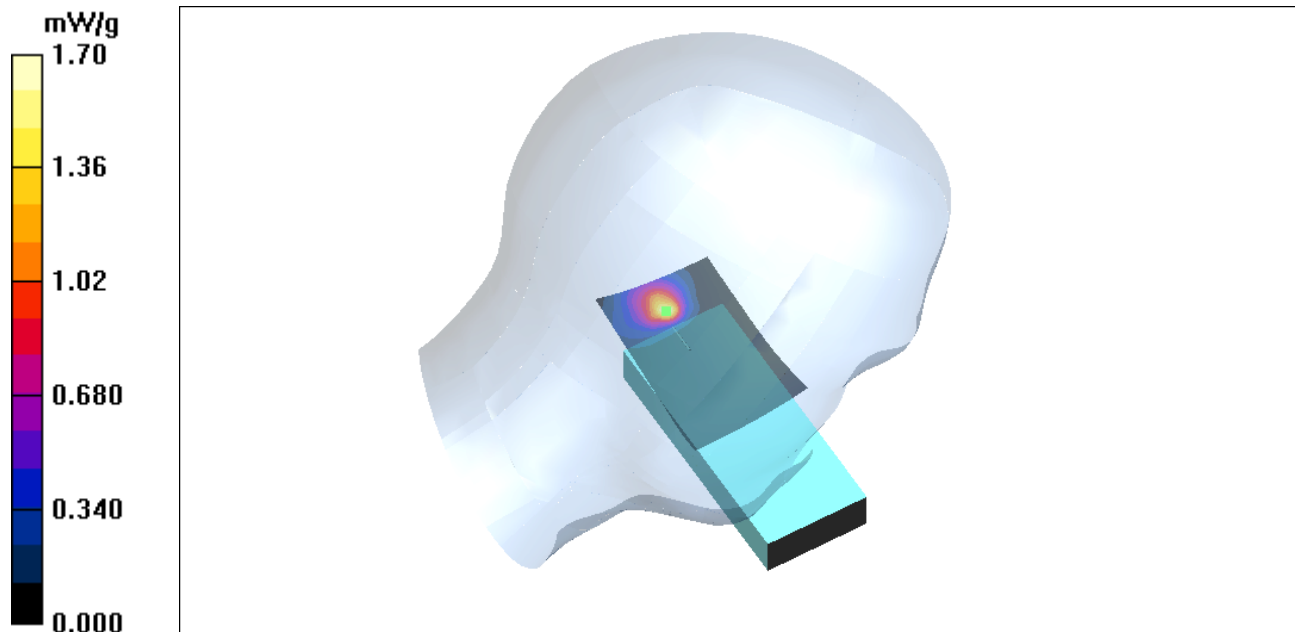
Zoom Scan (11x11x12)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 11.4 V/m; Power Drift = 0.221 dB

Peak SAR (extrapolated) = 3.62 W/kg

SAR(1 g) = 0.760 mW/g; SAR(10 g) = 0.254 mW/g

Maximum value of SAR (measured) = 1.48 mW/g



5680MHz Head Tilt, Channel 136, A mode

Date/Time: 7/13/2010 9:40:22 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: HSL5800 Medium parameters used: $f = 5500$ MHz; $\sigma = 5.13$ mho/m; $\epsilon_r = 34$; $\rho = 1000$ kg/m³

Phantom section: Left Section

- Probe: EX3DV4 - SN3722; ConvF(4.3, 4.3, 4.3); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Maximum value of SAR (interpolated) = 1.49 mW/g

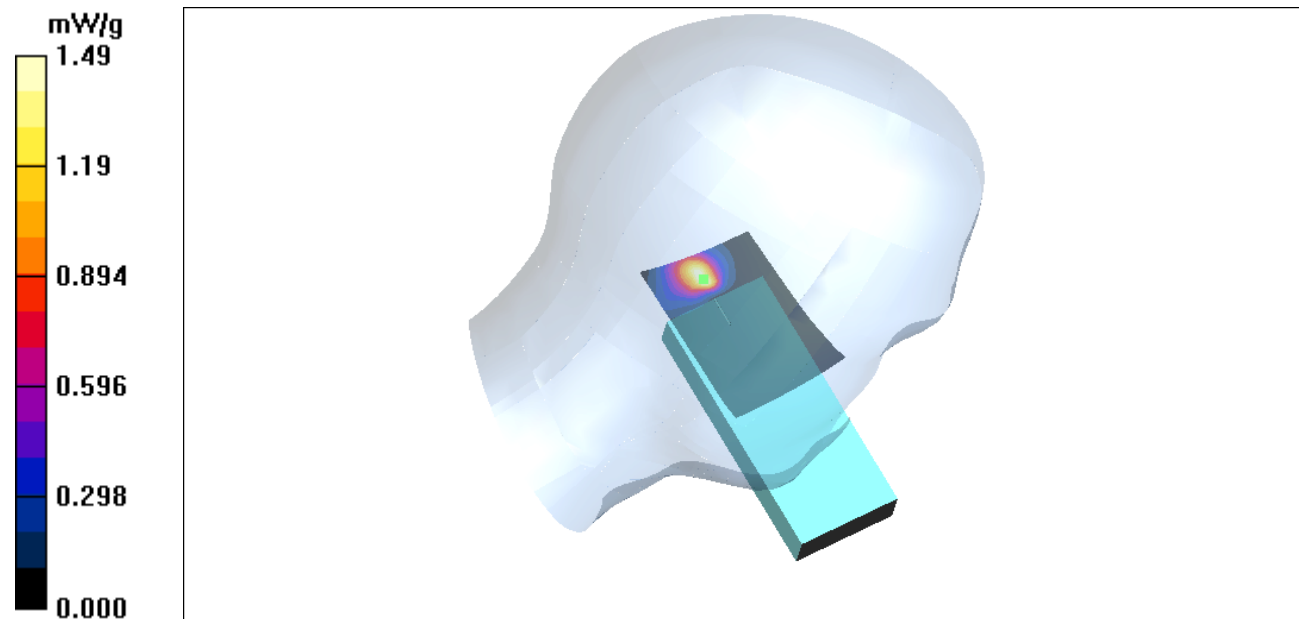
Zoom Scan (11x11x12)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 9.07 V/m; Power Drift = -0.240 dB

Peak SAR (extrapolated) = 2.65 W/kg

SAR(1 g) = 0.704 mW/g; SAR(10 g) = 0.240 mW/g

Maximum value of SAR (measured) = 1.37 mW/g



5680MHz Head Touch, Channel 135, A mode

Date/Time: 7/13/2010 8:46:38 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: HSL5800 Medium parameters used: $f = 5500$ MHz; $\sigma = 5.13$ mho/m; $\epsilon_r = 34$; $\rho = 1000$ kg/m³

Phantom section: Left Section

- Probe: EX3DV4 - SN3722; ConvF(4.3, 4.3, 4.3); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x91x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (interpolated) = 1.31 mW/g

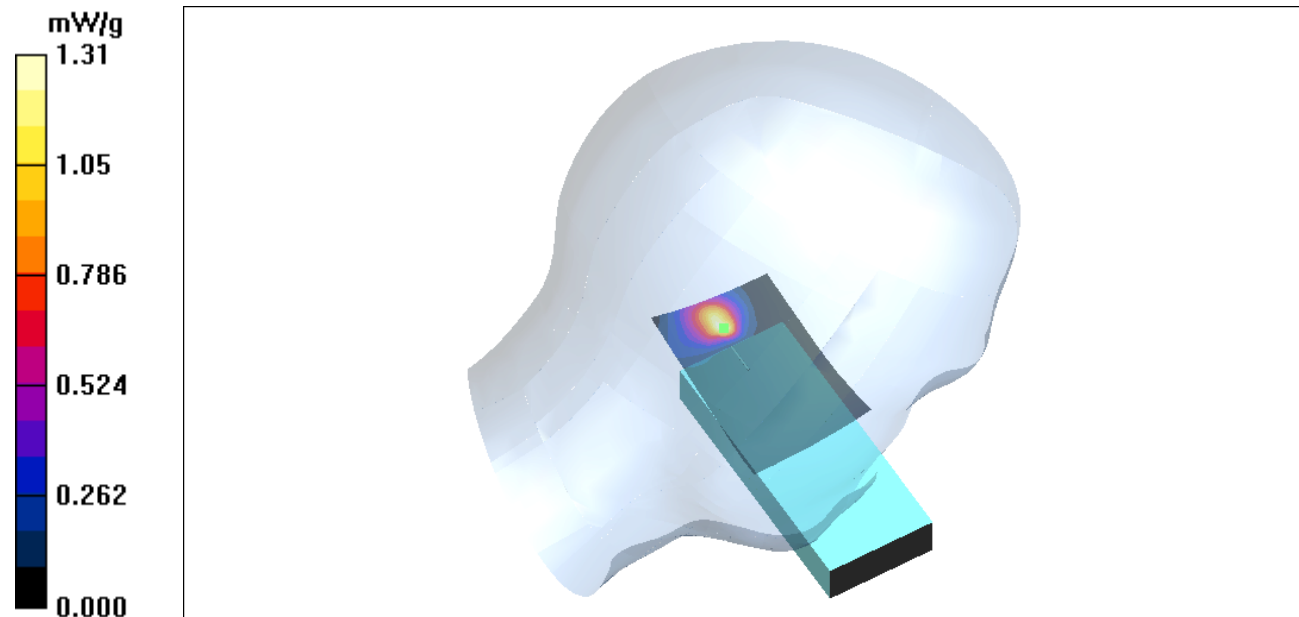
Zoom Scan (11x11x12)/Cube 0: Measurement grid: $dx=3$ mm, $dy=3$ mm, $dz=2$ mm

Reference Value = 9.04 V/m; Power Drift = 0.094 dB

Peak SAR (extrapolated) = 2.11 W/kg

SAR(1 g) = 0.594 mW/g; SAR(10 g) = 0.193 mW/g

Maximum value of SAR (measured) = 1.19 mW/g



5745MHz Head Tilt1, Channel 149, A mode

Date/Time: 7/14/2010 10:28:23 AM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: HSL5800 Medium parameters used: $f = 5800$ MHz; $\sigma = 5.5$ mho/m; $\epsilon_r = 33.6$; $\rho = 1000$ kg/m³

Phantom section: Left Section

- Probe: EX3DV4 - SN3722; ConvF(4.09, 4.09, 4.09); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x91x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (interpolated) = 1.88 mW/g

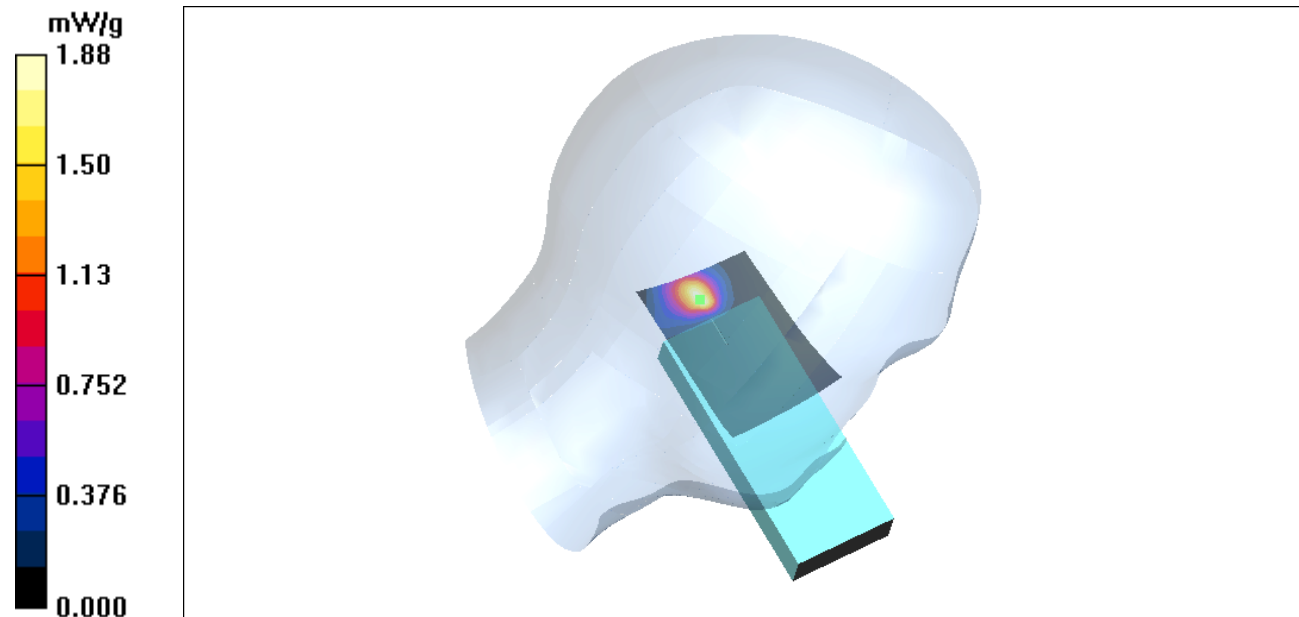
Zoom Scan (11x11x12)/Cube 0: Measurement grid: $dx=3$ mm, $dy=3$ mm, $dz=2$ mm

Reference Value = 10.6 V/m; Power Drift = -0.005 dB

Peak SAR (extrapolated) = 3.29 W/kg

SAR(1 g) = 0.896 mW/g; SAR(10 g) = 0.302 mW/g

Maximum value of SAR (measured) = 1.74 mW/g



5745MHz Head Touch, Channel 149, A mode

Date/Time: 7/14/2010 9:46:37 AM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: HSL5800 Medium parameters used: $f = 5800$ MHz; $\sigma = 5.5$ mho/m; $\epsilon_r = 33.6$; $\rho = 1000$ kg/m³

Phantom section: Left Section

- Probe: EX3DV4 - SN3722; ConvF(4.09, 4.09, 4.09); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Maximum value of SAR (interpolated) = 1.95 mW/g

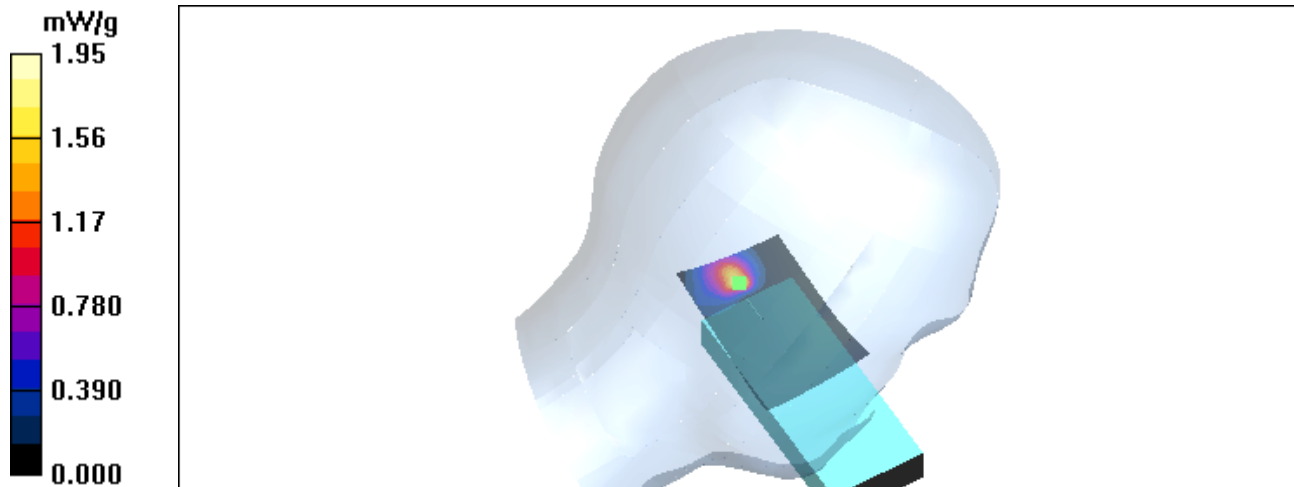
Zoom Scan (11x11x12)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 10.4 V/m; Power Drift = 0.173 dB

Peak SAR (extrapolated) = 3.02 W/kg

SAR(1 g) = 0.797 mW/g; SAR(10 g) = 0.265 mW/g

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



5805MHz Head Tilt, Channel 161, A mode

Date/Time: 7/14/2010 11:59:16 AM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: HSL5800 Medium parameters used: $f = 5800$ MHz; $\sigma = 5.5$ mho/m; $\epsilon_r = 33.6$; $\rho = 1000$ kg/m³

Phantom section: Left Section

- Probe: EX3DV4 - SN3722; ConvF(4.09, 4.09, 4.09); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Maximum value of SAR (interpolated) = 2.24 mW/g

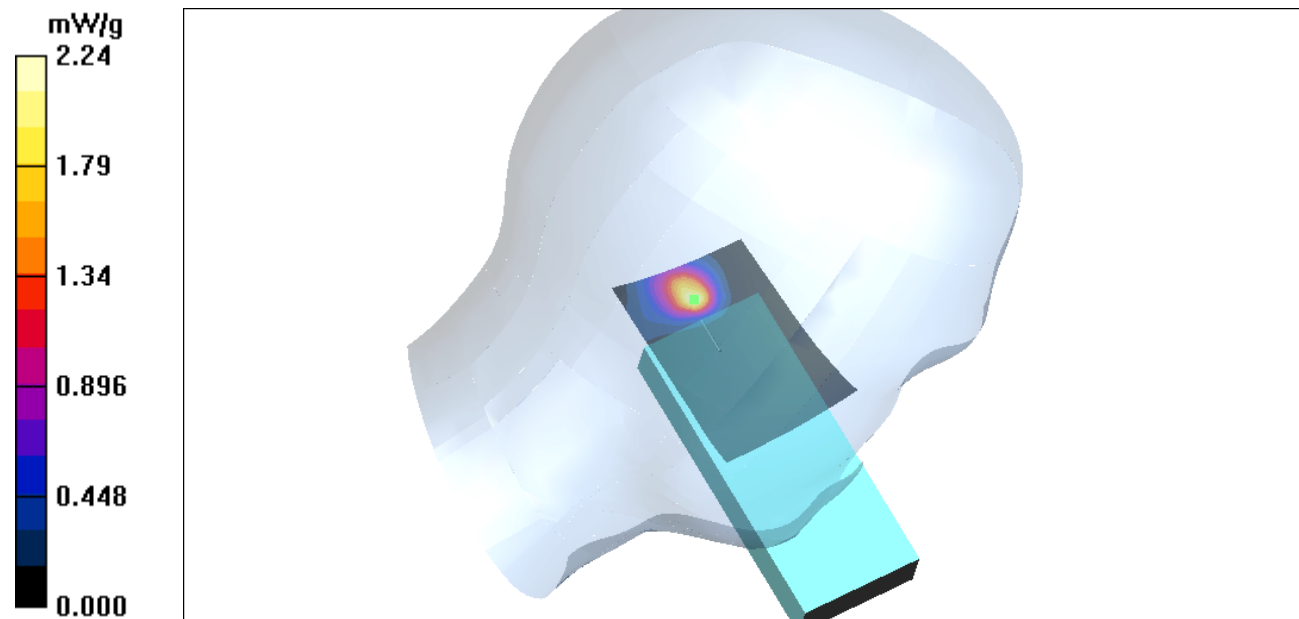
Zoom Scan (11x11x12)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 12.4 V/m; Power Drift = 0.087 dB

Peak SAR (extrapolated) = 4.04 W/kg

SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.339 mW/g

Maximum value of SAR (measured) = 2.08 mW/g



5805MHz Head Touch, Channel 161, A mode

Date/Time: 7/14/2010 11:17:48 AM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: HSL5800 Medium parameters used: $f = 5800$ MHz; $\sigma = 5.5$ mho/m; $\epsilon_r = 33.6$; $\rho = 1000$ kg/m³

Phantom section: Left Section

- Probe: EX3DV4 - SN3722; ConvF(4.09, 4.09, 4.09); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x91x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (interpolated) = 2.16 mW/g

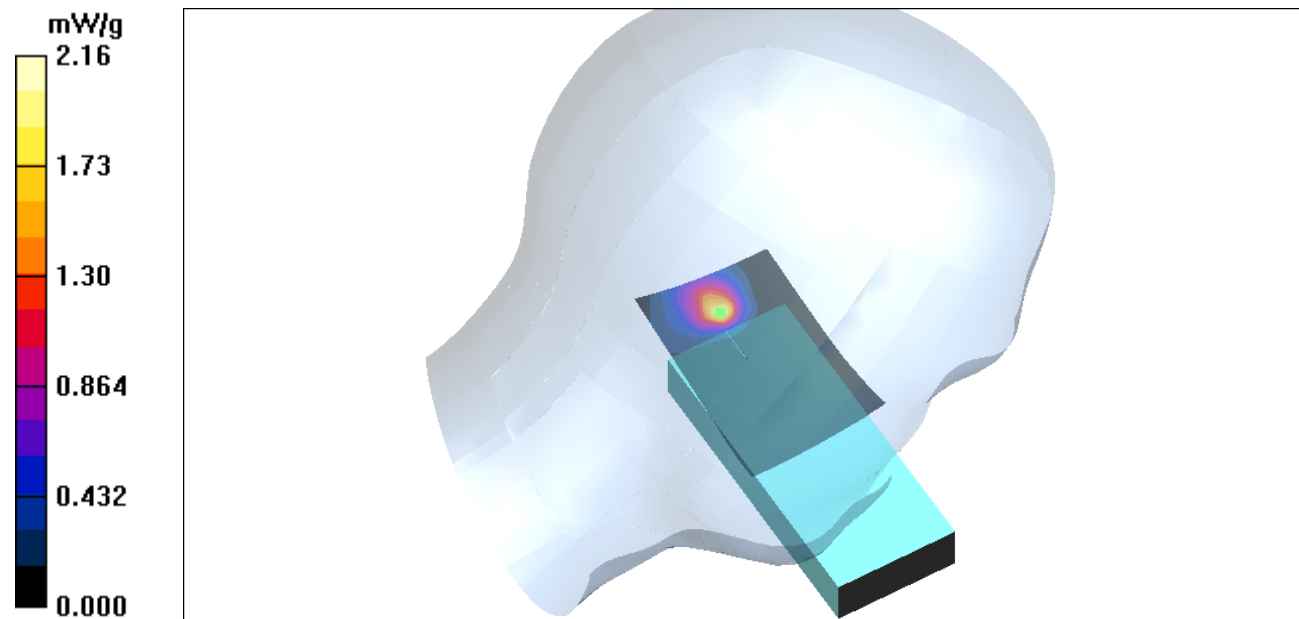
Zoom Scan (11x11x12)/Cube 0: Measurement grid: $dx=3$ mm, $dy=3$ mm, $dz=2$ mm

Reference Value = 12.9 V/m; Power Drift = -0.003 dB

Peak SAR (extrapolated) = 3.48 W/kg

SAR(1 g) = 0.921 mW/g; SAR(10 g) = 0.298 mW/g

Maximum value of SAR (measured) = 1.80 mW/g



5180MHz Right Head Tilt, Channel 36, A mode

Date/Time: 7/15/2010 1:20:37 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: HSL5800 Medium parameters used: $f = 5200$ MHz; $\sigma = 4.82$ mho/m; $\epsilon_r = 34.6$; $\rho = 1000$ kg/m³

Phantom section: Right Section

- Probe: EX3DV4 - SN3722; ConvF(4.65, 4.65, 4.65); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x91x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (interpolated) = 1.46 mW/g

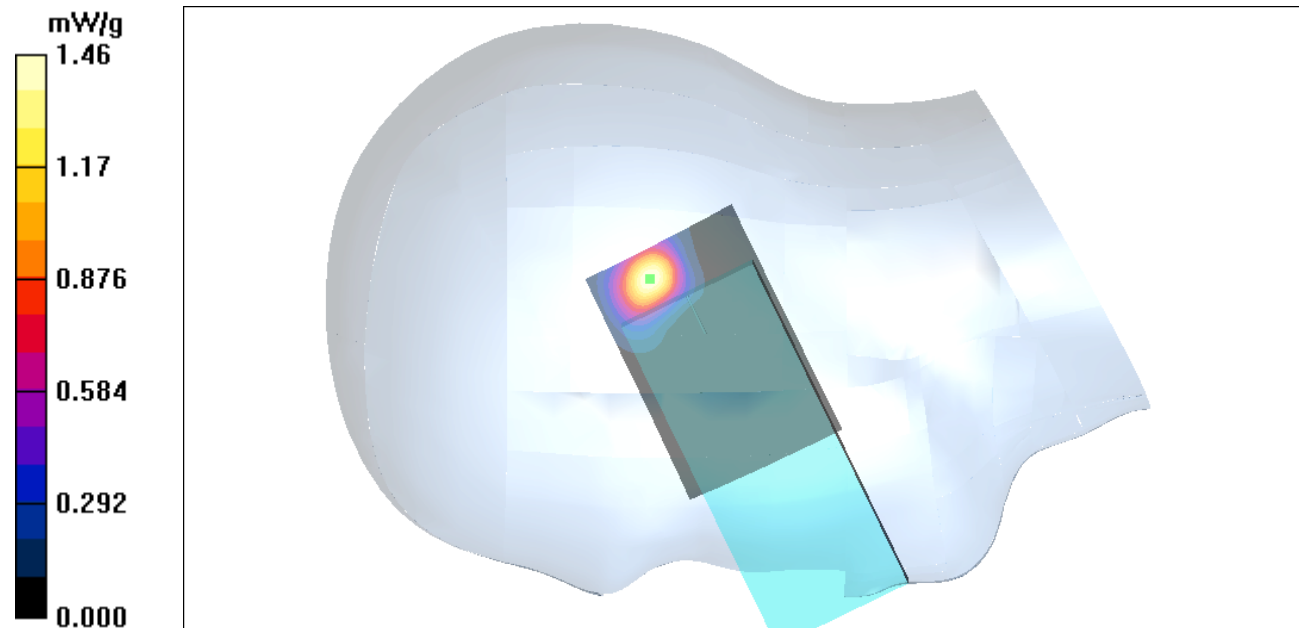
Zoom Scan (11x11x12)/Cube 0: Measurement grid: $dx=3$ mm, $dy=3$ mm, $dz=2$ mm

Reference Value = 6.92 V/m; Power Drift = 0.102 dB

Peak SAR (extrapolated) = 2.51 W/kg

SAR(1 g) = 0.760 mW/g; SAR(10 g) = 0.261 mW/g

Maximum value of SAR (measured) = 1.42 mW/g



5180MHz Right Head Touch, Channel 36, A mode

Date/Time: 7/15/2010 12:19:00 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: HSL5800 Medium parameters used: $f = 5200$ MHz; $\sigma = 4.82$ mho/m; $\epsilon_r = 34.6$; $\rho = 1000$ kg/m³

Phantom section: Right Section

- Probe: EX3DV4 - SN3722; ConvF(4.65, 4.65, 4.65); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x91x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (interpolated) = 1.21 mW/g

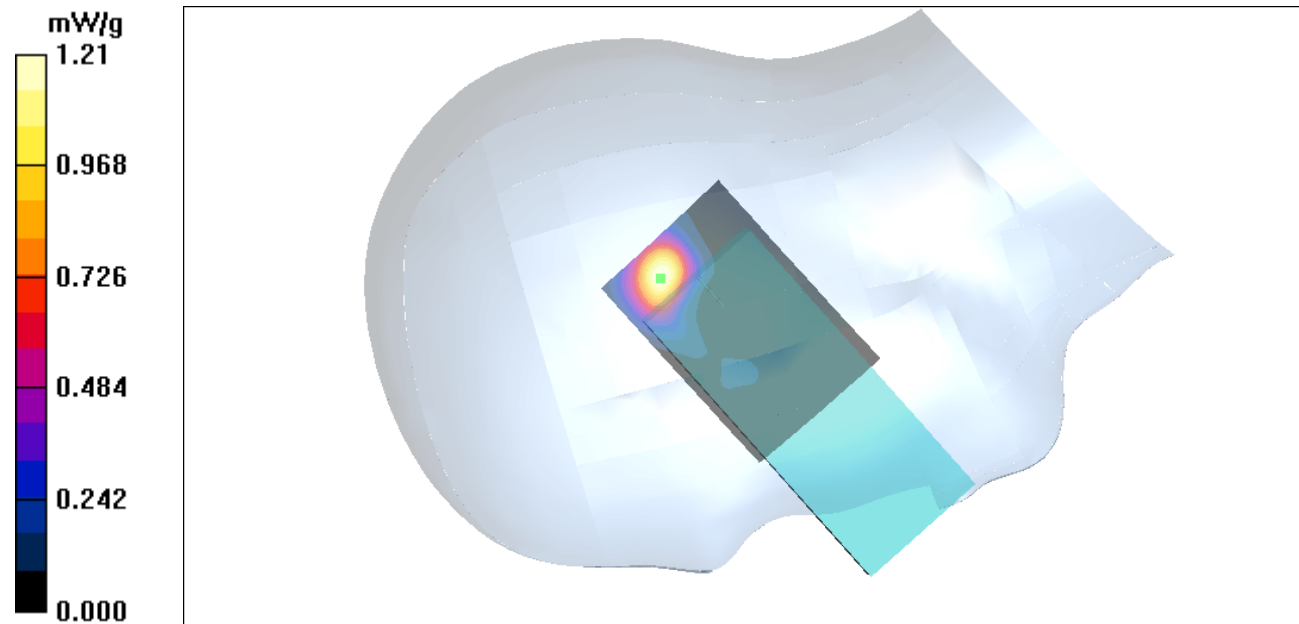
Zoom Scan (11x11x12)/Cube 0: Measurement grid: $dx=3$ mm, $dy=3$ mm, $dz=2$ mm

Reference Value = 6.36 V/m; Power Drift = 0.282 dB

Peak SAR (extrapolated) = 2.27 W/kg

SAR(1 g) = 0.673 mW/g; SAR(10 g) = 0.224 mW/g

Maximum value of SAR (measured) = 1.26 mW/g



5240MHz Right Head Tilt, Channel 48, A mode

Date/Time: 7/15/2010 11:35:25 AM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: HSL5800 Medium parameters used: $f = 5200$ MHz; $\sigma = 4.82$ mho/m; $\epsilon_r = 34.6$; $\rho = 1000$ kg/m³

Phantom section: Right Section

- Probe: EX3DV4 - SN3722; ConvF(4.65, 4.65, 4.65); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x91x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (interpolated) = 1.32 mW/g

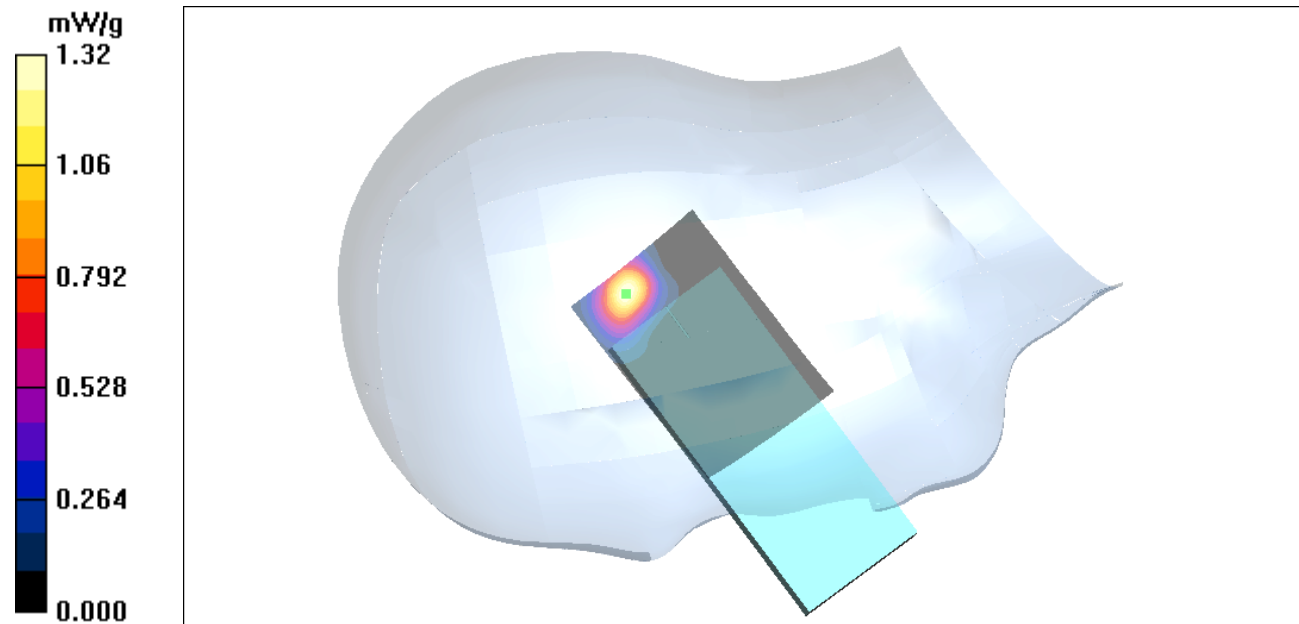
Zoom Scan (11x11x12)/Cube 0: Measurement grid: $dx=3$ mm, $dy=3$ mm, $dz=2$ mm

Reference Value = 5.07 V/m; Power Drift = 0.186 dB

Peak SAR (extrapolated) = 2.32 W/kg

SAR(1 g) = 0.659 mW/g; SAR(10 g) = 0.228 mW/g

Maximum value of SAR (measured) = 1.26 mW/g



5240MHz Right Head Touch, Channel 48, A mode

Date/Time: 7/15/2010 10:48:41 AM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: HSL5800 Medium parameters used: $f = 5200$ MHz; $\sigma = 4.82$ mho/m; $\epsilon_r = 34.6$; $\rho = 1000$ kg/m³

Phantom section: Right Section

- Probe: EX3DV4 - SN3722; ConvF(4.65, 4.65, 4.65); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x91x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (interpolated) = 1.06 mW/g

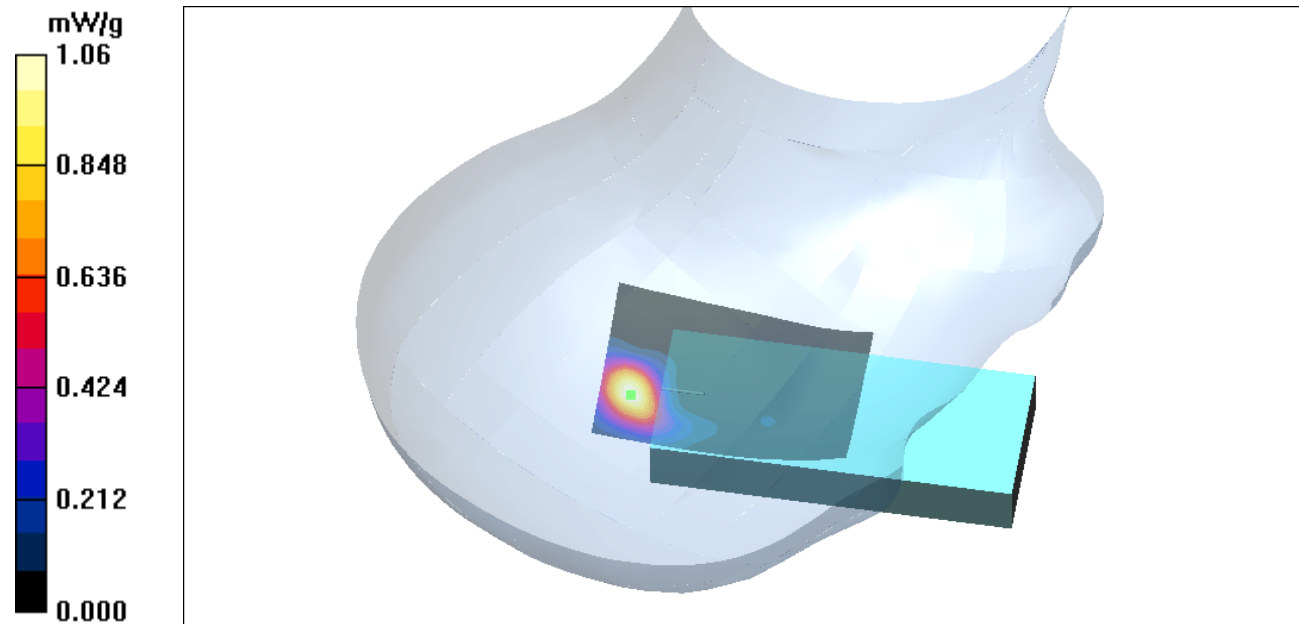
Zoom Scan (11x11x12)/Cube 0: Measurement grid: $dx=3$ mm, $dy=3$ mm, $dz=2$ mm

Reference Value = 5.35 V/m; Power Drift = 0.298 dB

Peak SAR (extrapolated) = 1.91 W/kg

SAR(1 g) = 0.565 mW/g; SAR(10 g) = 0.171 mW/g

Maximum value of SAR (measured) = 1.10 mW/g



5260MHz Right Head Tilt, Channel 52, A mode

Date/Time: 7/15/2010 9:54:00 AM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: HSL5800 Medium parameters used: $f = 5200$ MHz; $\sigma = 4.82$ mho/m; $\epsilon_r = 34.6$; $\rho = 1000$ kg/m³

Phantom section: Right Section

- Probe: EX3DV4 - SN3722; ConvF(4.65, 4.65, 4.65); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Maximum value of SAR (interpolated) = 1.11 mW/g

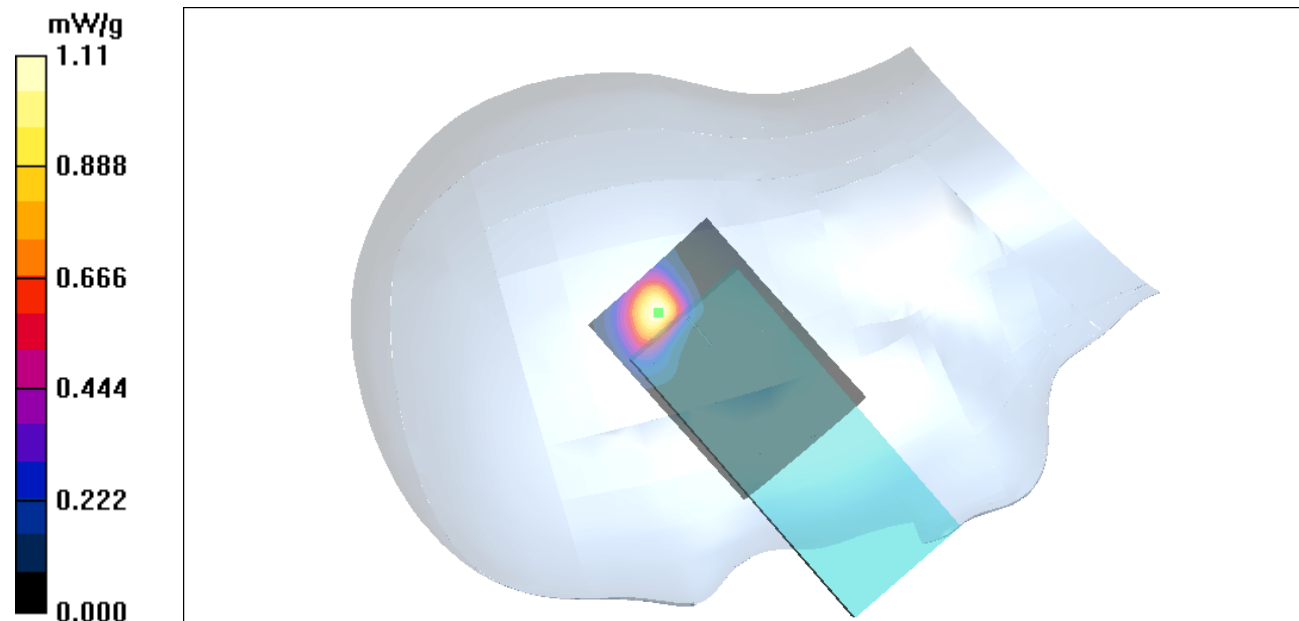
Zoom Scan (11x11x12)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 7.34 V/m; Power Drift = -0.033 dB

Peak SAR (extrapolated) = 2.14 W/kg

SAR(1 g) = 0.605 mW/g; SAR(10 g) = 0.204 mW/g

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



5260MHz Right Head Touch, Channel 52, A mode

Date/Time: 7/15/2010 9:11:17 AM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: HSL5800 Medium parameters used: $f = 5200$ MHz; $\sigma = 4.82$ mho/m; $\epsilon_r = 34.6$; $\rho = 1000$ kg/m³

Phantom section: Right Section

- Probe: EX3DV4 - SN3722; ConvF(4.65, 4.65, 4.65); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Maximum value of SAR (interpolated) = 1.11 mW/g

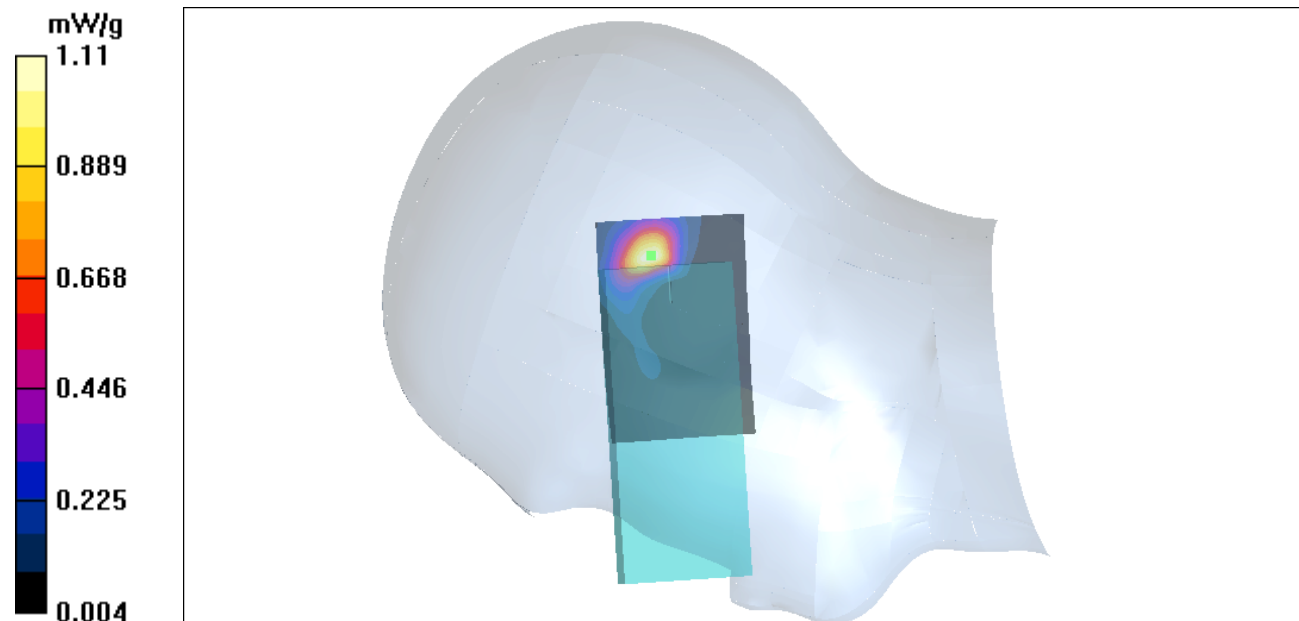
Zoom Scan (11x11x12)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 7.50 V/m; Power Drift = -0.260 dB

Peak SAR (extrapolated) = 1.94 W/kg

SAR(1 g) = 0.541 mW/g; SAR(10 g) = 0.171 mW/g

Maximum value of SAR (measured) = 1.04 mW/g



5320MHz Right Head Tilt, Channel 64, A mode

Date/Time: 7/14/2010 10:52:40 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: HSL5800 Medium parameters used: $f = 5200$ MHz; $\sigma = 4.82$ mho/m; $\epsilon_r = 34.6$; $\rho = 1000$ kg/m³

Phantom section: Right Section

- Probe: EX3DV4 - SN3722; ConvF(4.65, 4.65, 4.65); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Maximum value of SAR (interpolated) = 1.11 mW/g

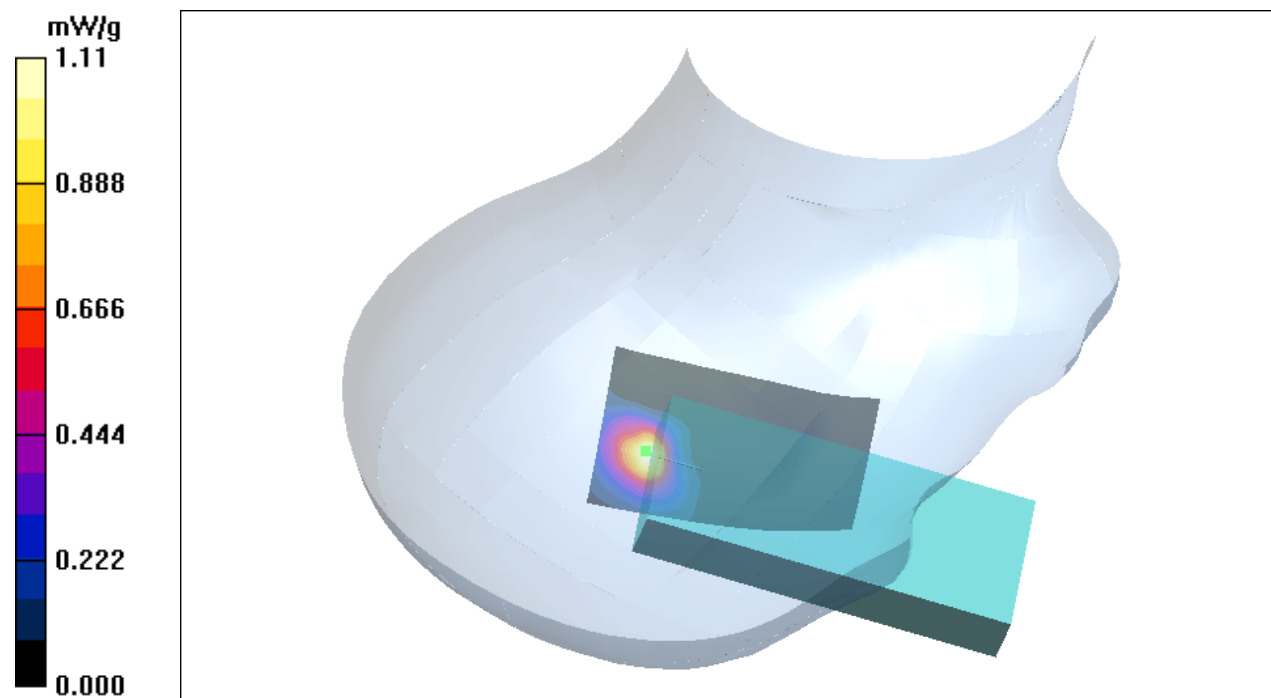
Zoom Scan (11x11x12)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 8.94 V/m; Power Drift = 0.138 dB

Peak SAR (extrapolated) = 1.88 W/kg

SAR(1 g) = 0.524 mW/g; SAR(10 g) = 0.176 mW/g

Maximum value of SAR (measured) = 1.00 mW/g



5320MHz Right Head Touch, Channel 64, A mode

Date/Time: 7/14/2010 10:12:31 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: HSL5800 Medium parameters used: $f = 5200$ MHz; $\sigma = 4.82$ mho/m; $\epsilon_r = 34.6$; $\rho = 1000$ kg/m³

Phantom section: Right Section

- Probe: EX3DV4 - SN3722; ConvF(4.65, 4.65, 4.65); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Maximum value of SAR (interpolated) = 0.964 mW/g

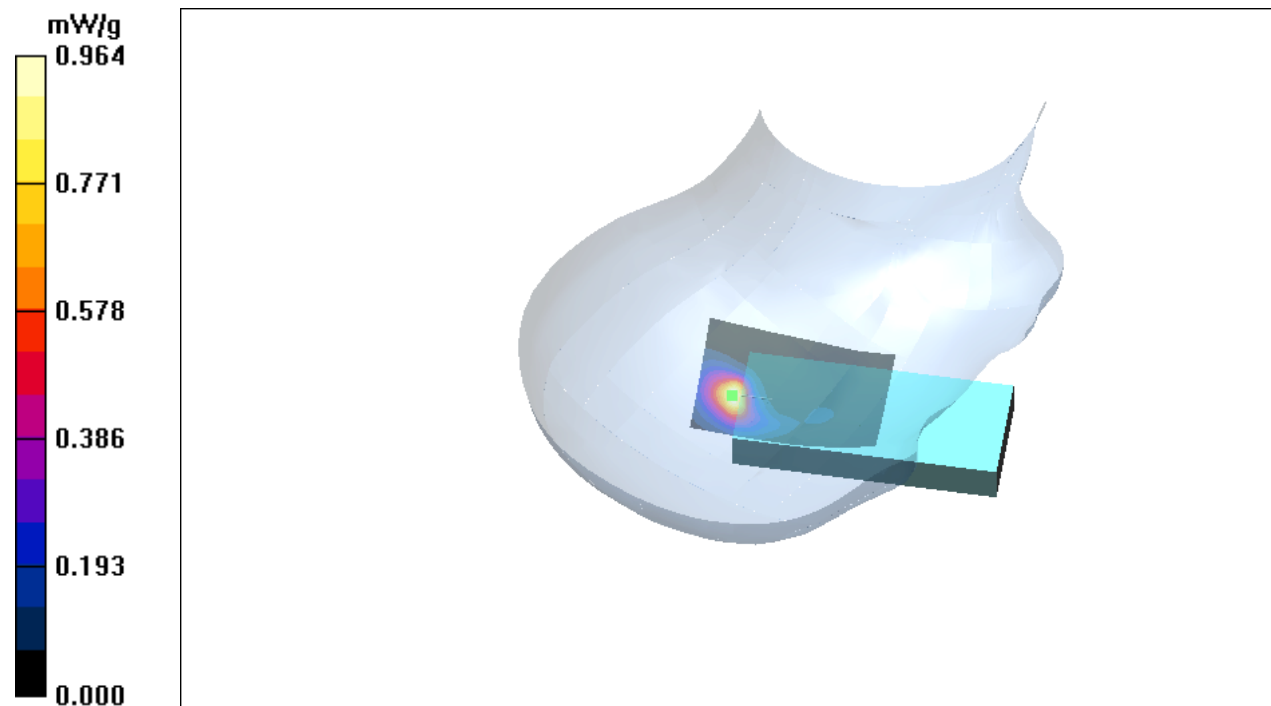
Zoom Scan (11x11x12)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 8.60 V/m; Power Drift = 0.156 dB

Peak SAR (extrapolated) = 1.82 W/kg

SAR(1 g) = 0.495 mW/g; SAR(10 g) = 0.167 mW/g

Maximum value of SAR (measured) = 0.961 mW/g



5520MHz Right Head Tilt, Channel 104, A mode

Date/Time: 7/14/2010 9:24:25 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: HSL5800 Medium parameters used: $f = 5500$ MHz; $\sigma = 5.13$ mho/m; $\epsilon_r = 34.1$; $\rho = 1000$ kg/m³

Phantom section: Right Section

- Probe: EX3DV4 - SN3722; ConvF(4.3, 4.3, 4.3); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Maximum value of SAR (interpolated) = 1.65 mW/g

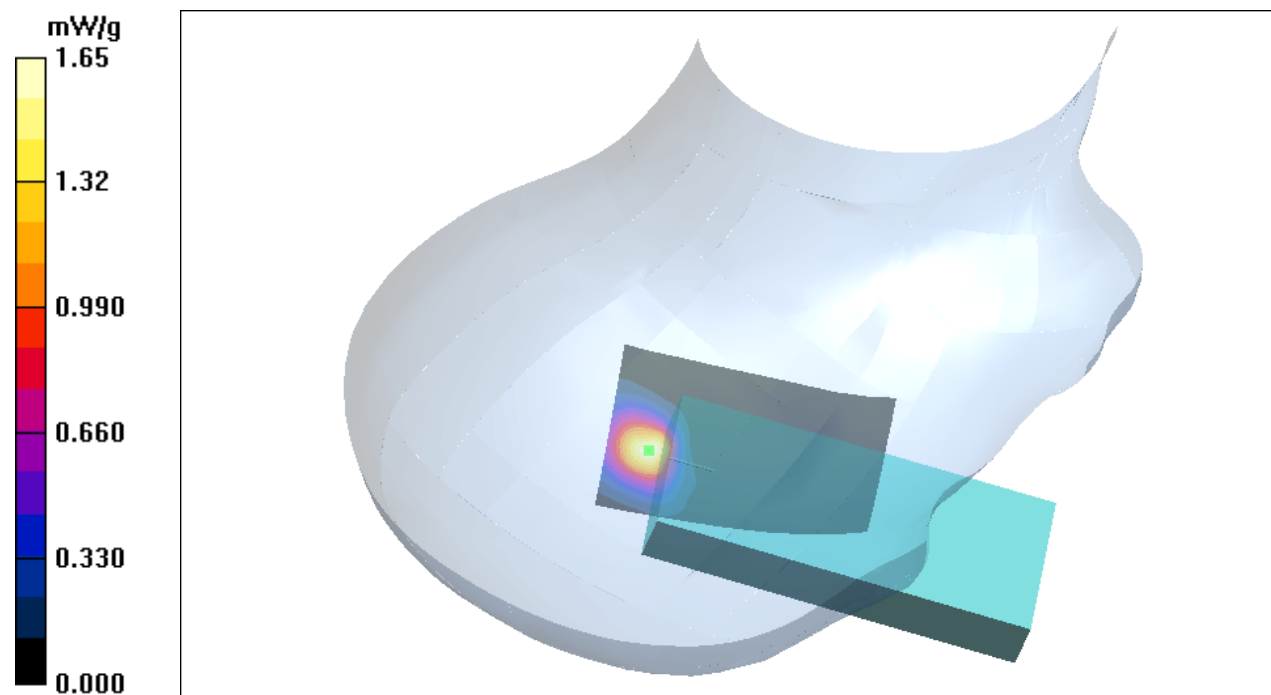
Zoom Scan (11x11x12)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 10.1 V/m; Power Drift = 0.434 dB

Peak SAR (extrapolated) = 2.70 W/kg

SAR(1 g) = 0.797 mW/g; SAR(10 g) = 0.271 mW/g

Maximum value of SAR (measured) = 1.54 mW/g



5520MHz Right Head Touch, Channel 104, A mode

Date/Time: 7/14/2010 8:43:46 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: HSL5800 Medium parameters used: $f = 5500$ MHz; $\sigma = 5.13$ mho/m; $\epsilon_r = 34.1$; $\rho = 1000$ kg/m³

Phantom section: Right Section

- Probe: EX3DV4 - SN3722; ConvF(4.3, 4.3, 4.3); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Maximum value of SAR (interpolated) = 1.37 mW/g

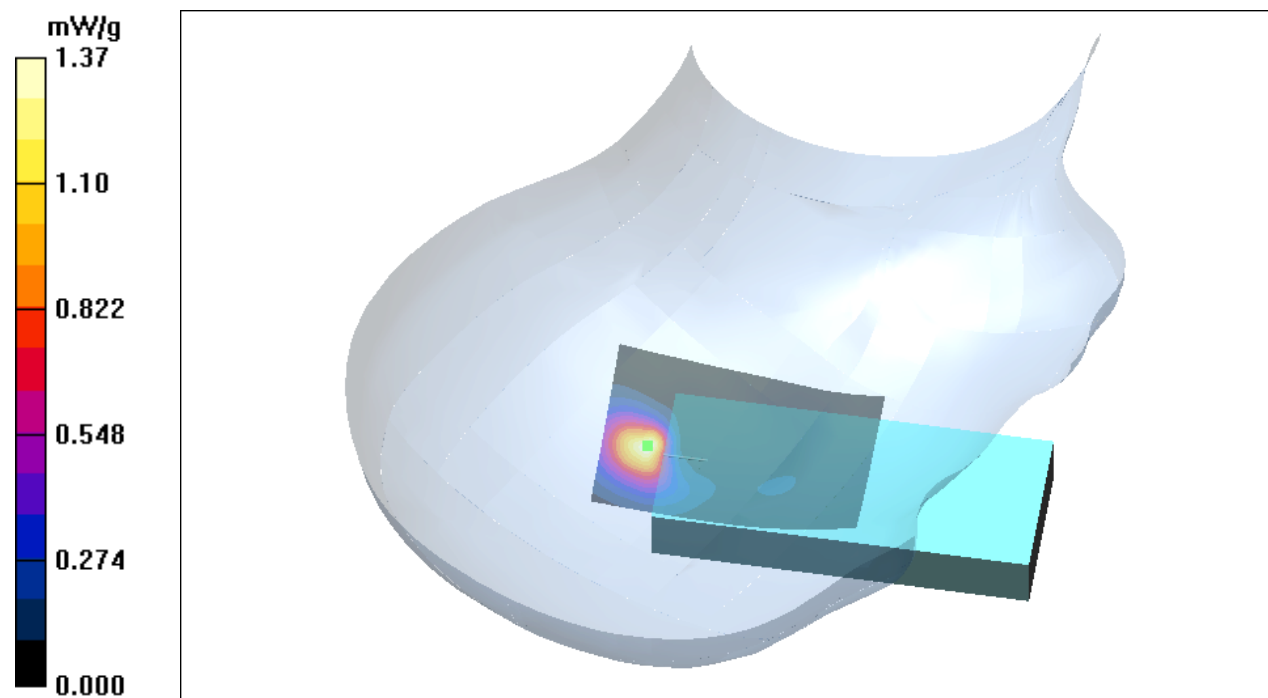
Zoom Scan (11x11x12)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 9.05 V/m; Power Drift = 0.162 dB

Peak SAR (extrapolated) = 2.36 W/kg

SAR(1 g) = 0.657 mW/g; SAR(10 g) = 0.227 mW/g

Maximum value of SAR (measured) = 1.24 mW/g



5580MHz Right Head Tilt, Channel 116, A mode

Date/Time: 7/14/2010 8:00:13 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: HSL5800 Medium parameters used: $f = 5500$ MHz; $\sigma = 5.13$ mho/m; $\epsilon_r = 34.1$; $\rho = 1000$ kg/m³

Phantom section: Right Section

- Probe: EX3DV4 - SN3722; ConvF(4.3, 4.3, 4.3); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Maximum value of SAR (interpolated) = 2.01 mW/g

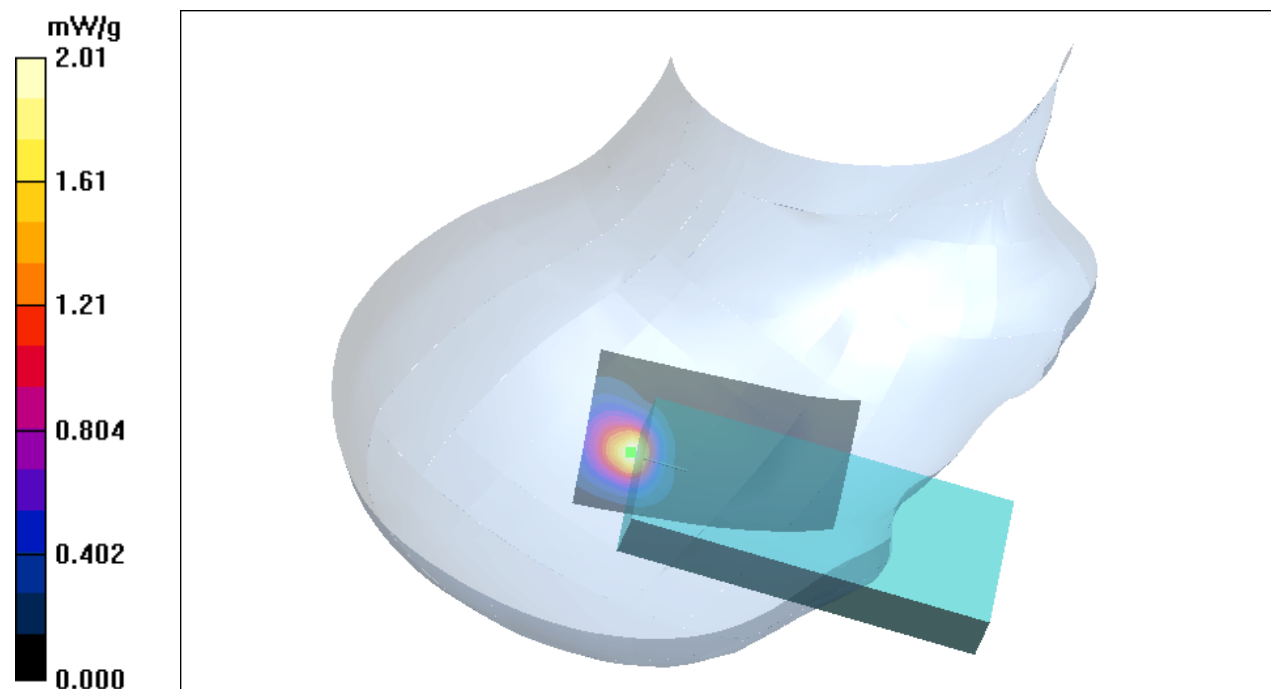
Zoom Scan (11x11x12)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 12.4 V/m; Power Drift = 0.061 dB

Peak SAR (extrapolated) = 3.48 W/kg

SAR(1 g) = 0.954 mW/g; SAR(10 g) = 0.323 mW/g

Maximum value of SAR (measured) = 1.84 mW/g



5580MHz Right Head Touch, Channel 116, A mode

Date/Time: 7/14/2010 7:19:39 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: HSL5800 Medium parameters used: $f = 5500$ MHz; $\sigma = 5.13$ mho/m; $\epsilon_r = 34.1$; $\rho = 1000$ kg/m³

Phantom section: Right Section

- Probe: EX3DV4 - SN3722; ConvF(4.3, 4.3, 4.3); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Maximum value of SAR (interpolated) = 1.80 mW/g

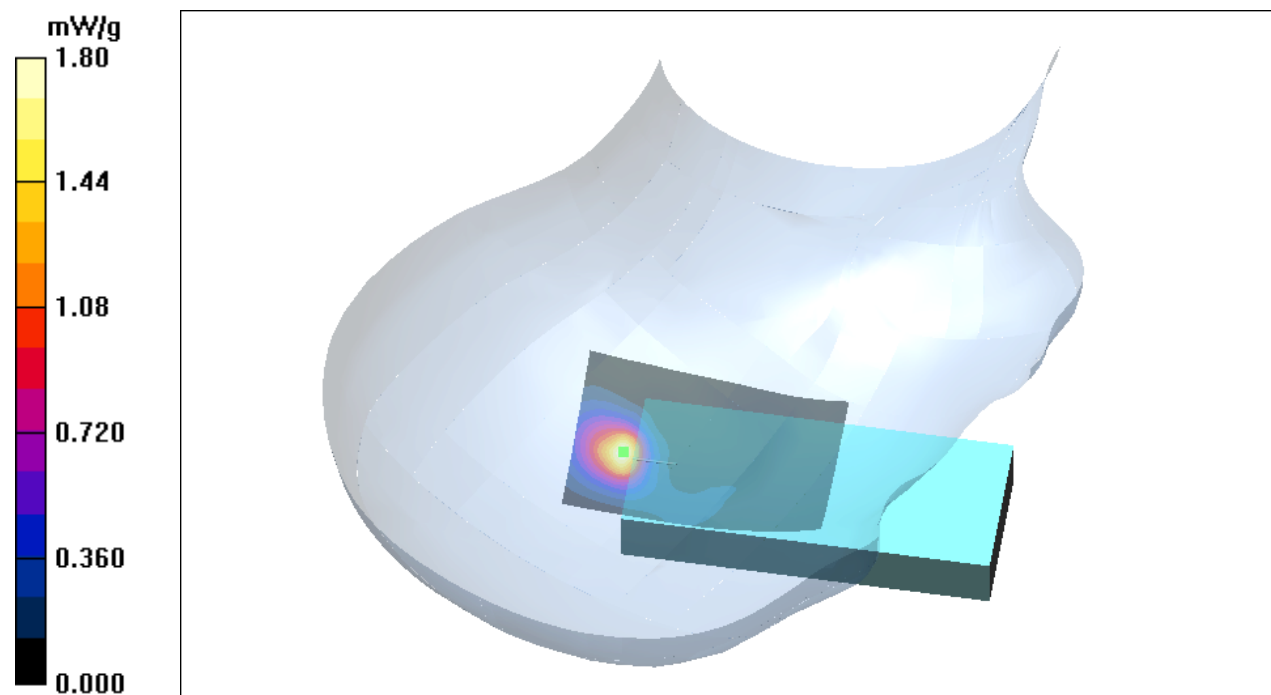
Zoom Scan (11x11x12)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 12.1 V/m; Power Drift = 0.130 dB

Peak SAR (extrapolated) = 2.99 W/kg

SAR(1 g) = 0.829 mW/g; SAR(10 g) = 0.280 mW/g

Maximum value of SAR (measured) = 1.57 mW/g



5620MHz Right Head Tilt, Channel 124, A mode

Date/Time: 7/14/2010 5:55:57 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: HSL5800 Medium parameters used: $f = 5500$ MHz; $\sigma = 5.13$ mho/m; $\epsilon_r = 34.1$; $\rho = 1000$ kg/m³

Phantom section: Right Section

- Probe: EX3DV4 - SN3722; ConvF(4.3, 4.3, 4.3); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Maximum value of SAR (interpolated) = 1.66 mW/g

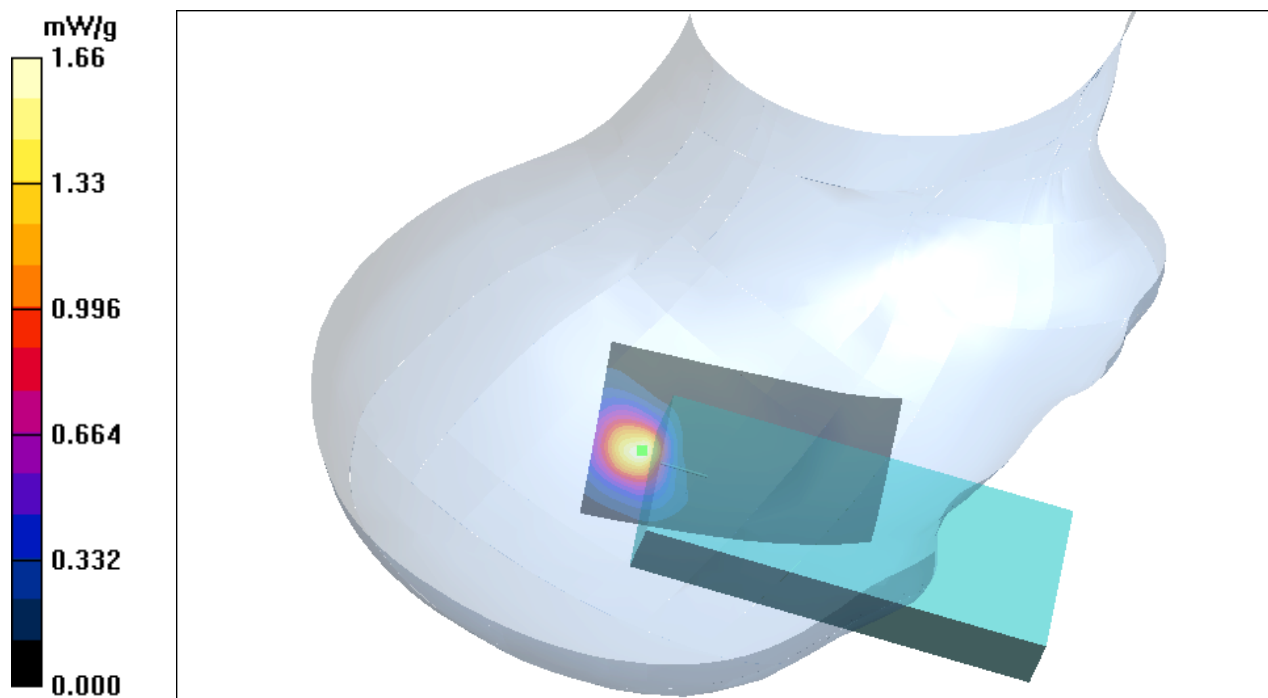
Zoom Scan (11x11x12)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 10.3 V/m; Power Drift = 0.094 dB

Peak SAR (extrapolated) = 2.93 W/kg

SAR(1 g) = 0.785 mW/g; SAR(10 g) = 0.262 mW/g

Maximum value of SAR (measured) = 1.51 mW/g



5620MHz Right Head Touch, Channel 124, A mode

Date/Time: 7/14/2010 5:14:50 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: HSL5800 Medium parameters used: $f = 5500$ MHz; $\sigma = 5.13$ mho/m; $\epsilon_r = 34.1$; $\rho = 1000$ kg/m³

Phantom section: Right Section

- Probe: EX3DV4 - SN3722; ConvF(4.3, 4.3, 4.3); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Maximum value of SAR (interpolated) = 1.34 mW/g

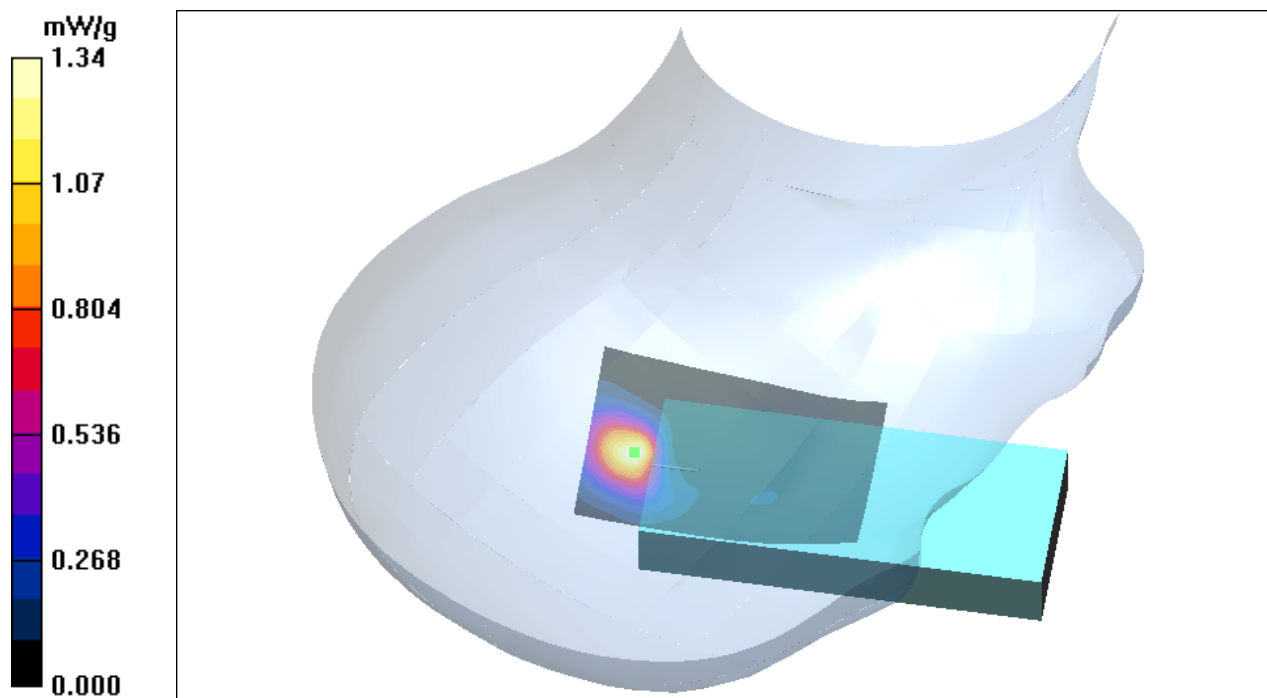
Zoom Scan (11x11x12)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 9.78 V/m; Power Drift = 0.063 dB

Peak SAR (extrapolated) = 2.30 W/kg

SAR(1 g) = 0.644 mW/g; SAR(10 g) = 0.200 mW/g

Maximum value of SAR (measured) = 1.31 mW/g



5680MHz Right Head Tilt, Channel 136, A mode

Date/Time: 7/14/2010 4:29:54 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: HSL5800 Medium parameters used: $f = 5500$ MHz; $\sigma = 5.13$ mho/m; $\epsilon_r = 34.1$; $\rho = 1000$ kg/m³

Phantom section: Right Section

- Probe: EX3DV4 - SN3722; ConvF(4.3, 4.3, 4.3); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Maximum value of SAR (interpolated) = 1.34 mW/g

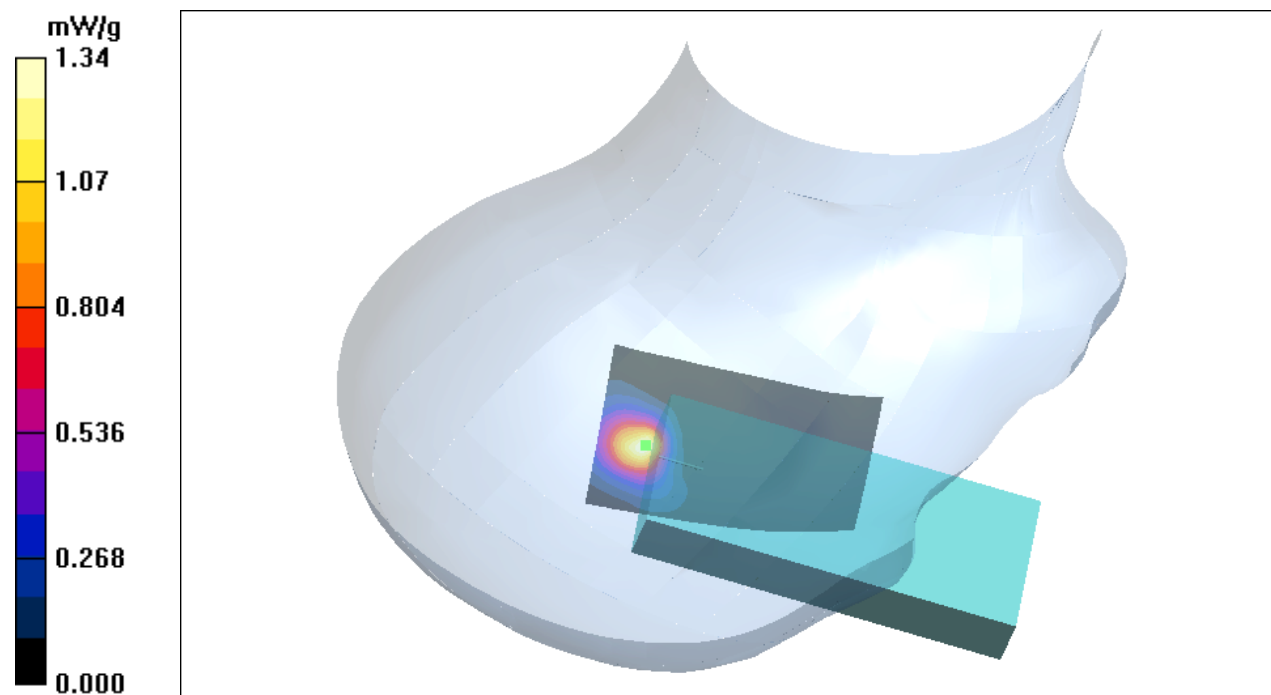
Zoom Scan (11x11x12)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 9.58 V/m; Power Drift = 0.009 dB

Peak SAR (extrapolated) = 2.15 W/kg

SAR(1 g) = 0.599 mW/g; SAR(10 g) = 0.180 mW/g

Maximum value of SAR (measured) = 1.18 mW/g



5680MHz Right Head Touch, Channel 136, A mode

Date/Time: 7/14/2010 3:49:04 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: HSL5800 Medium parameters used: $f = 5500$ MHz; $\sigma = 5.13$ mho/m; $\epsilon_r = 34.1$; $\rho = 1000$ kg/m³

Phantom section: Right Section

- Probe: EX3DV4 - SN3722; ConvF(4.3, 4.3, 4.3); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

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

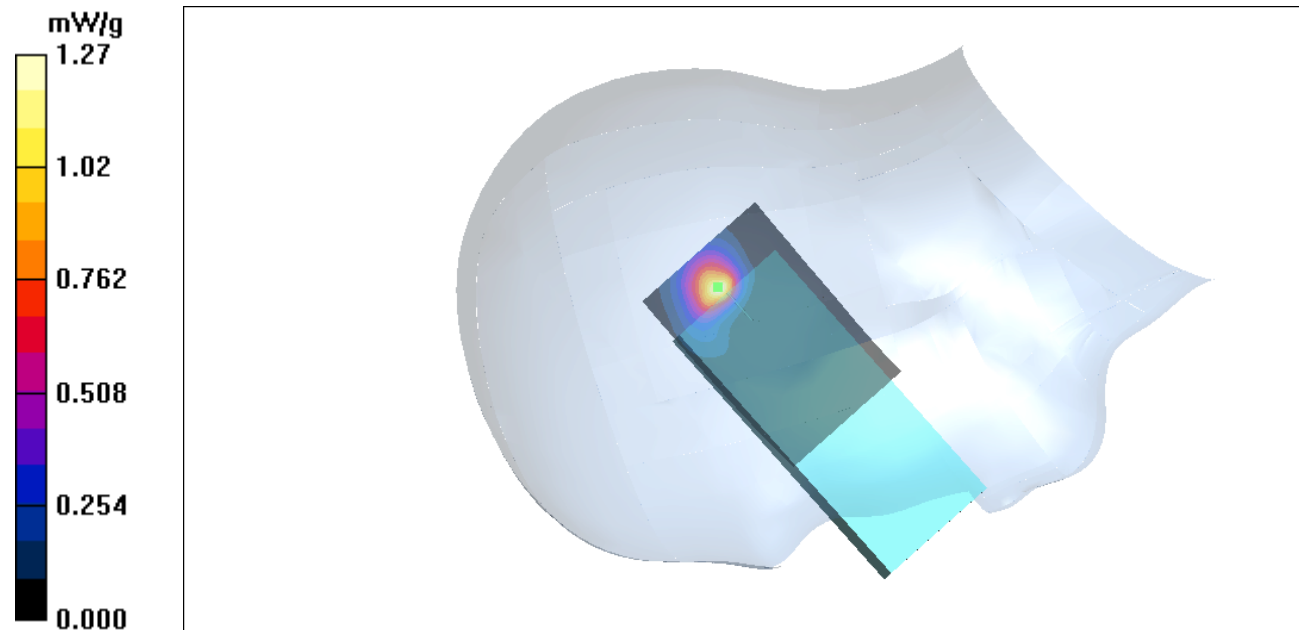
Zoom Scan (11x11x12)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 9.65 V/m; Power Drift = 0.283 dB

Peak SAR (extrapolated) = 3.44 W/kg

SAR(1 g) = 0.577 mW/g; SAR(10 g) = 0.191 mW/g

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



5745MHz Right Head Tilt, Channel 149, A mode

Date/Time: 7/14/2010 3:07:01 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: HSL5800 Medium parameters used: $f = 5800$ MHz; $\sigma = 5.5$ mho/m; $\epsilon_r = 33.6$; $\rho = 1000$ kg/m³

Phantom section: Right Section

- Probe: EX3DV4 - SN3722; ConvF(4.09, 4.09, 4.09); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Maximum value of SAR (interpolated) = 1.77 mW/g

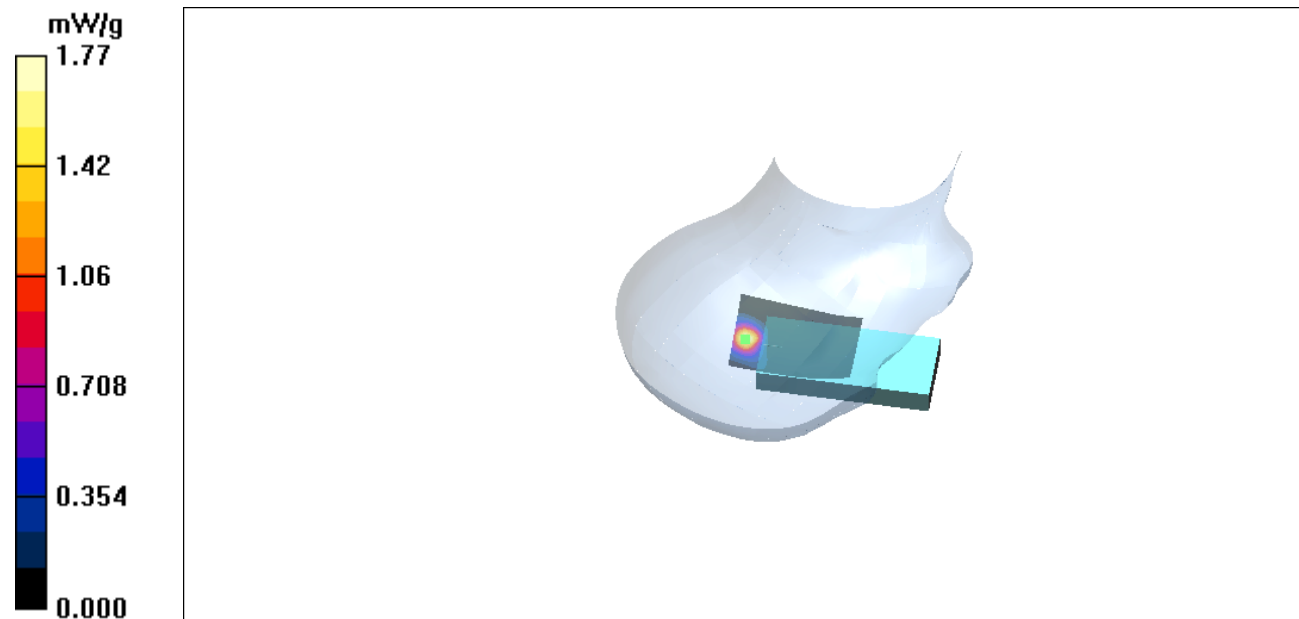
Zoom Scan (11x11x12)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 8.12 V/m; Power Drift = 0.158 dB

Peak SAR (extrapolated) = 2.97 W/kg

SAR(1 g) = 0.808 mW/g; SAR(10 g) = 0.276 mW/g

Maximum value of SAR (measured) = 1.55 mW/g



5745MHz Right Head Touch, Channel 149, A mode

Date/Time: 7/14/2010 2:24:34 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: HSL5800 Medium parameters used: $f = 5800$ MHz; $\sigma = 5.5$ mho/m; $\epsilon_r = 33.6$; $\rho = 1000$ kg/m³

Phantom section: Right Section

- Probe: EX3DV4 - SN3722; ConvF(4.09, 4.09, 4.09); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Maximum value of SAR (interpolated) = 1.52 mW/g

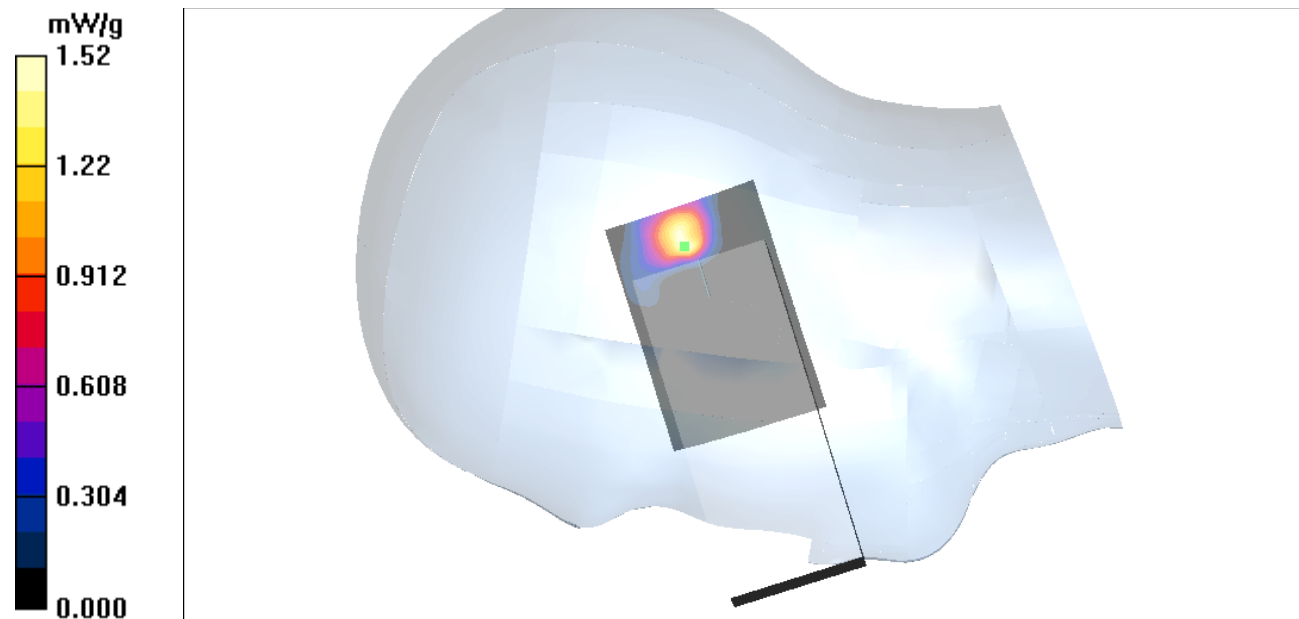
Zoom Scan (11x11x12)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 8.17 V/m; Power Drift = 0.267 dB

Peak SAR (extrapolated) = 2.69 W/kg

SAR(1 g) = 0.720 mW/g; SAR(10 g) = 0.242 mW/g

Maximum value of SAR (measured) = 1.41 mW/g



5805MHz Right Head Tilt, Channel 161, A mode

Date/Time: 7/14/2010 1:38:16 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: HSL5800 Medium parameters used: $f = 5800 \text{ MHz}$; $\sigma = 5.5 \text{ mho/m}$; $\epsilon_r = 33.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

- Probe: EX3DV4 - SN3722; ConvF(4.09, 4.09, 4.09); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x151x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 2.01 mW/g

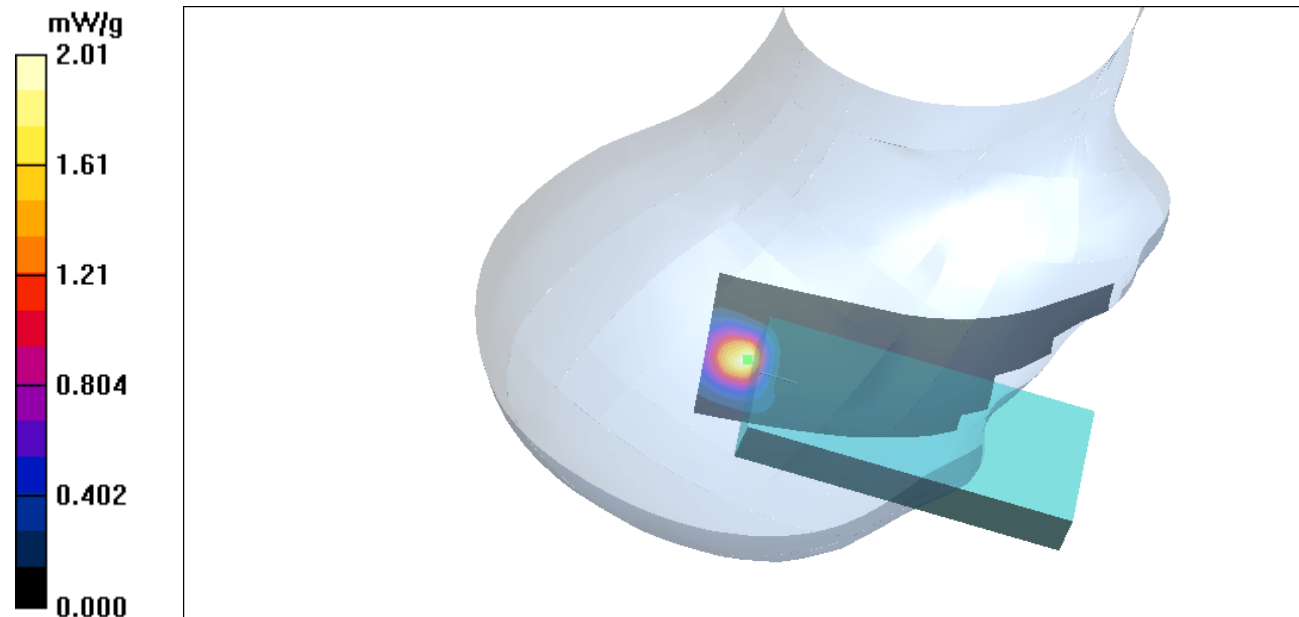
Zoom Scan (11x11x12)/Cube 0: Measurement grid: $dx=3\text{mm}$, $dy=3\text{mm}$, $dz=2\text{mm}$

Reference Value = 11.7 V/m; Power Drift = 0.071 dB

Peak SAR (extrapolated) = 3.54 W/kg

SAR(1 g) = 0.942 mW/g; SAR(10 g) = 0.317 mW/g

Maximum value of SAR (measured) = 1.82 mW/g



5805MHz Head Touch, Channel 161, A mode

Date/Time: 7/14/2010 12:52:30 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: HSL5800 Medium parameters used: $f = 5800$ MHz; $\sigma = 5.5$ mho/m; $\epsilon_r = 33.6$; $\rho = 1000$ kg/m³

Phantom section: Right Section

- Probe: EX3DV4 - SN3722; ConvF(4.09, 4.09, 4.09); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x151x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.95 mW/g

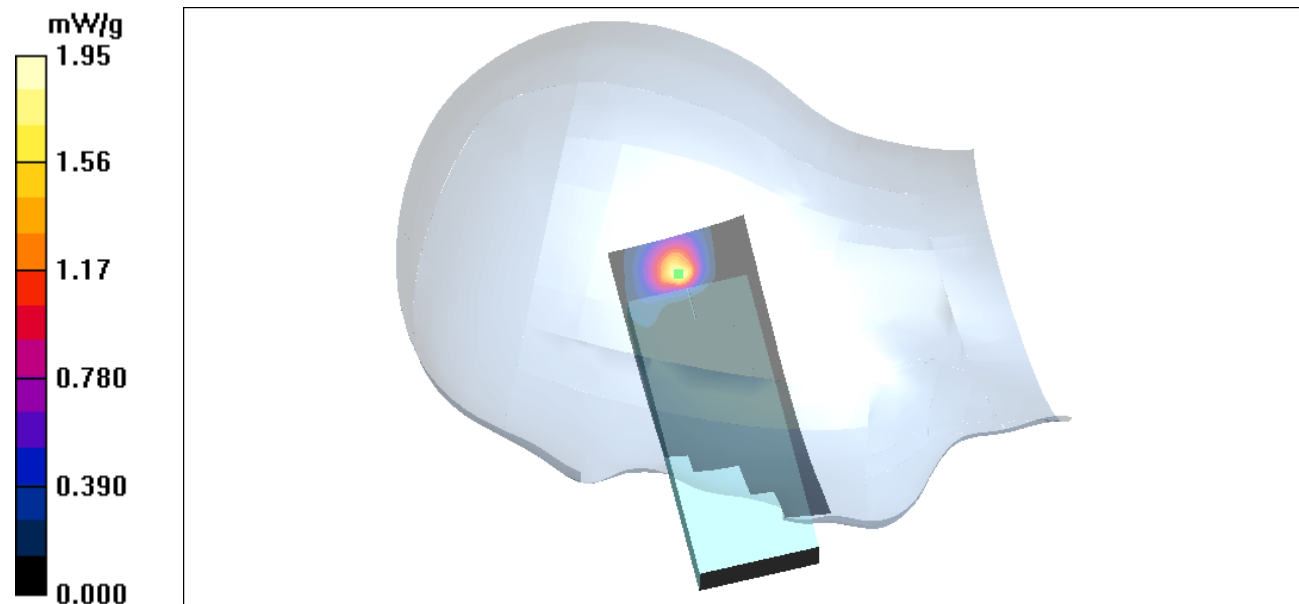
Zoom Scan (11x11x12)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 11.2 V/m; Power Drift = 0.124 dB

Peak SAR (extrapolated) = 3.31 W/kg

SAR(1 g) = 0.864 mW/g; SAR(10 g) = 0.282 mW/g

Maximum value of SAR (measured) = 1.71 mW/g



5580MHz Left Head Tilt, Channel 116, A mode, with extended battery

Date/Time: 7/15/2010 2:14:45 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: HSL5800 Medium parameters used: $f = 5500$ MHz; $\sigma = 5.13$ mho/m; $\epsilon_r = 34.2$; $\rho = 1000$ kg/m³

Phantom section: Right Section

- Probe: EX3DV4 - SN3722; ConvF(4.3, 4.3, 4.3); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x91x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (interpolated) = 1.99 mW/g

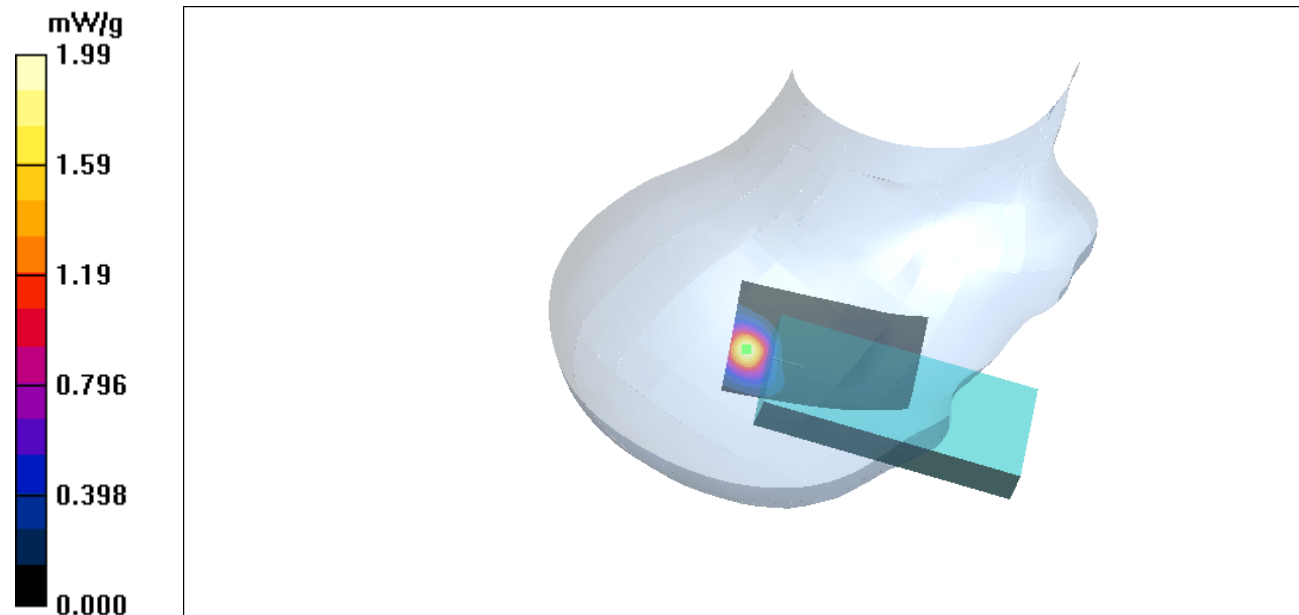
Zoom Scan (11x11x12)/Cube 0: Measurement grid: $dx=3$ mm, $dy=3$ mm, $dz=2$ mm

Reference Value = 7.67 V/m; Power Drift = -0.147 dB

Peak SAR (extrapolated) = 3.44 W/kg

SAR(1 g) = 0.943 mW/g; SAR(10 g) = 0.323 mW/g

Maximum value of SAR (measured) = 1.82 mW/g



5180MHz Body Leather Holster, Channel 36, A mode

Date/Time: 7/9/2010 9:20:13 AM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Body Medium parameters used: $f = 5200$ MHz; $\sigma = 5.38$ mho/m; $\epsilon_r = 46.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(4.07, 4.07, 4.07); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x131x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.34 mW/g

Zoom Scan (11x11x16)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 4.11 V/m; Power Drift = 0.28 dB

Peak SAR (extrapolated) = 2.49 W/kg

SAR(1 g) = 0.677 mW/g; SAR(10 g) = 0.201 mW/g

Maximum value of SAR (measured) = 1.34 mW/g



5180MHz Body Plastic Holster, Channel 36, A mode

Date/Time: 7/9/2010 8:30:59 AM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Body Medium parameters used: $f = 5200$ MHz; $\sigma = 5.38$ mho/m; $\epsilon_r = 46.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(4.07, 4.07, 4.07); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x131x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.997 mW/g

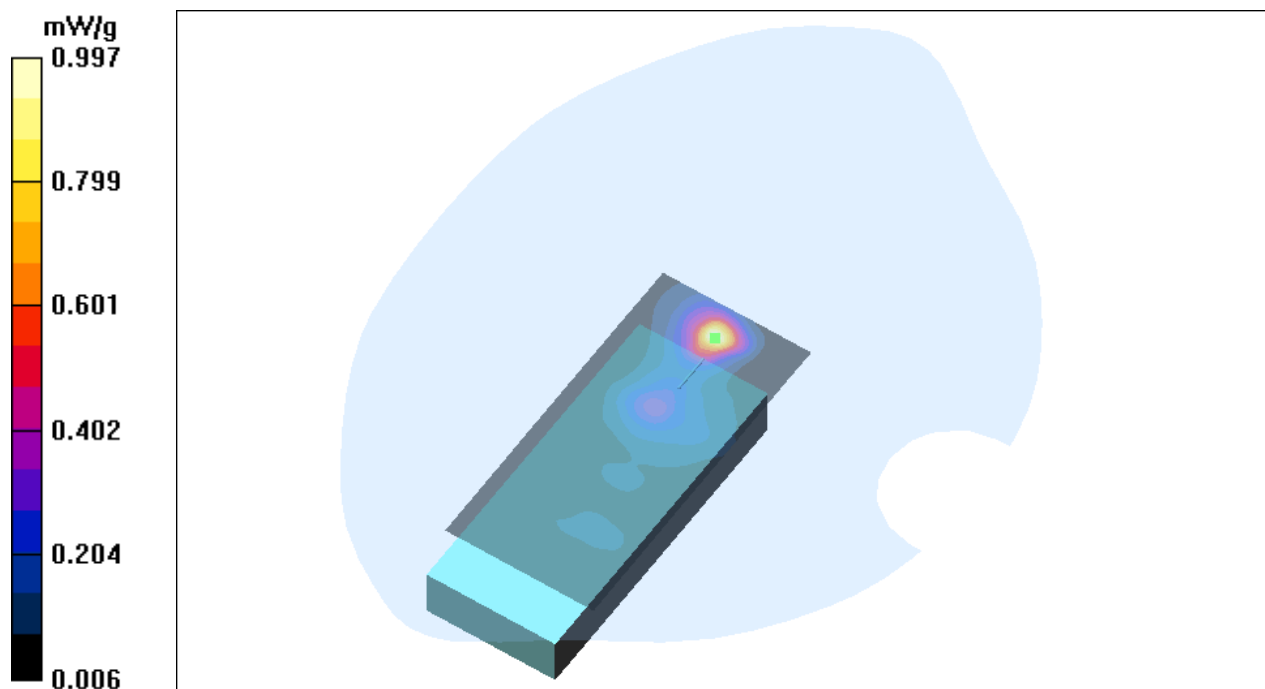
Zoom Scan (11x11x16)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 7.74 V/m; Power Drift = 0.245 dB

Peak SAR (extrapolated) = 1.66 W/kg

SAR(1 g) = 0.485 mW/g; SAR(10 g) = 0.145 mW/g

Maximum value of SAR (measured) = 0.965 mW/g



5240MHz Body Leather Holster, Channel 48, A mode

Date/Time: 7/9/2010 10:51:52 AM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Body Medium parameters used: $f = 5200$ MHz; $\sigma = 5.38$ mho/m; $\epsilon_r = 46.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(4.07, 4.07, 4.07); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x131x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.47 mW/g

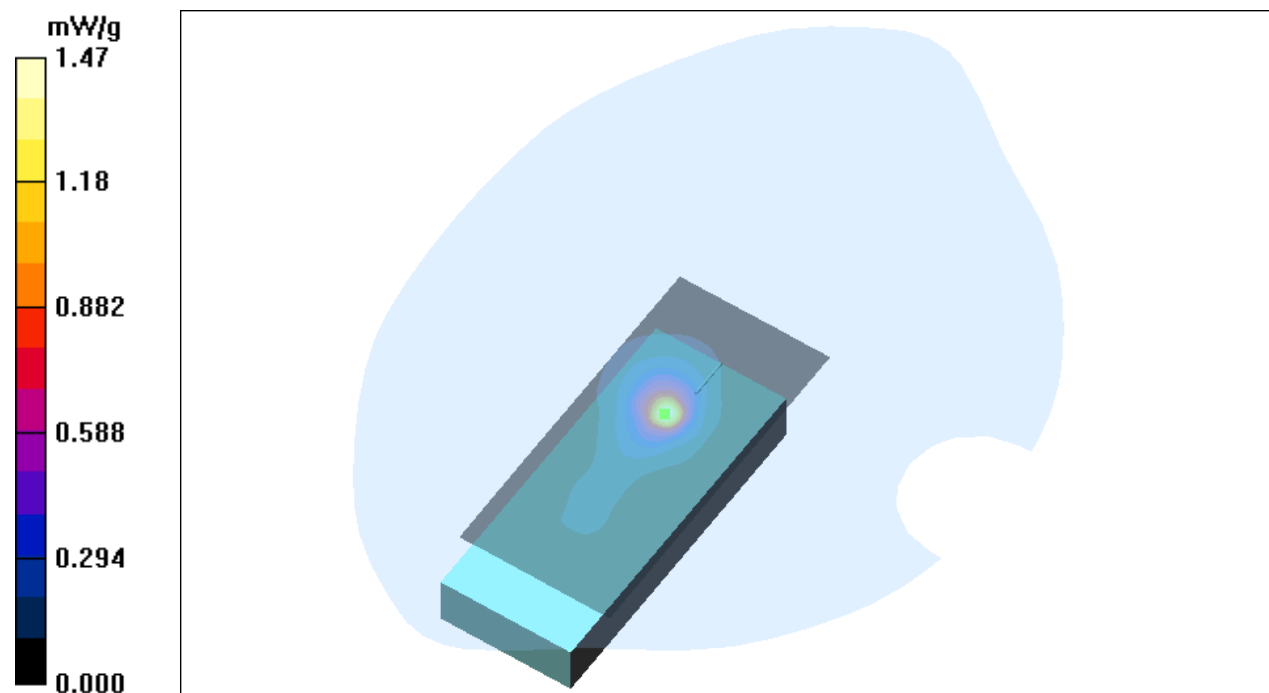
Zoom Scan (11x11x16)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 3.42 V/m; Power Drift = -0.113 dB

Peak SAR (extrapolated) = 2.45 W/kg

SAR(1 g) = 0.707 mW/g; SAR(10 g) = 0.199 mW/g

Maximum value of SAR (measured) = 1.48 mW/g



5240MHz Body Plastic Holster, Channel 48, A mode

Date/Time: 7/9/2010 10:02:38 AM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Body Medium parameters used: $f = 5200$ MHz; $\sigma = 5.38$ mho/m; $\epsilon_r = 46.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(4.07, 4.07, 4.07); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x131x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.850 mW/g

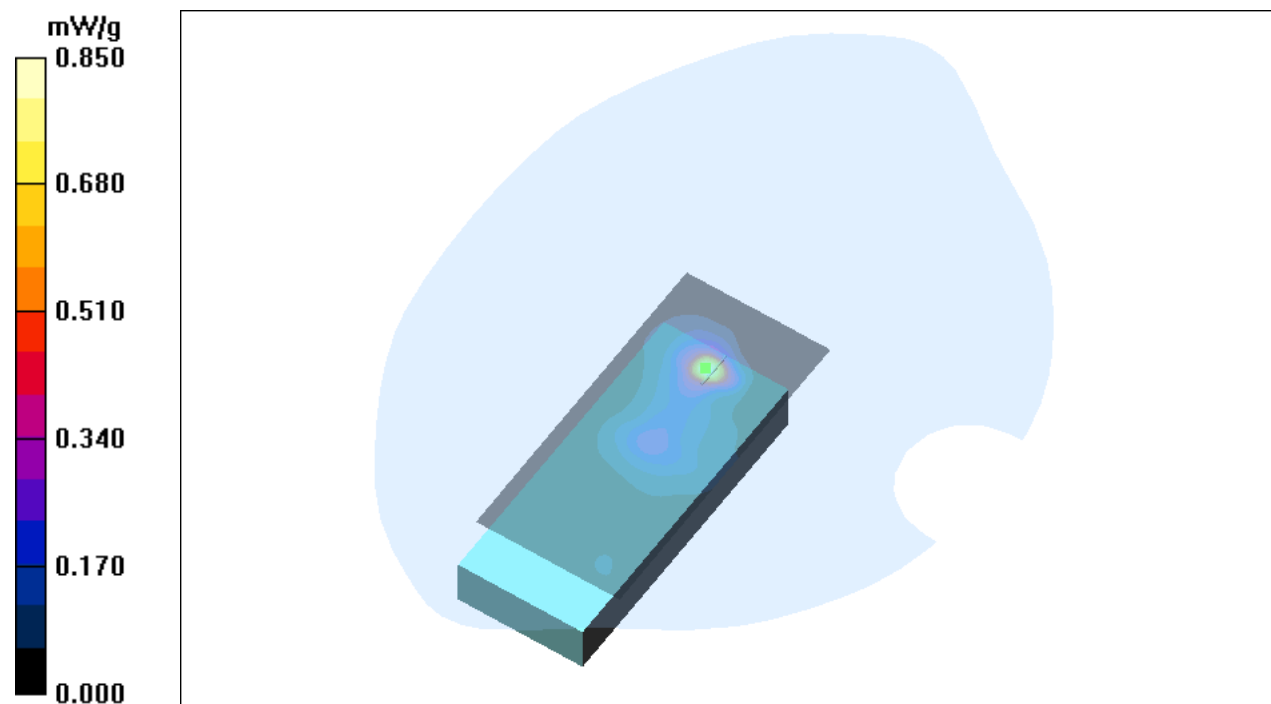
Zoom Scan (11x11x16)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 3.82 V/m; Power Drift = 0.28 dB

Peak SAR (extrapolated) = 1.41 W/kg

SAR(1 g) = 0.401 mW/g; SAR(10 g) = 0.105 mW/g

Maximum value of SAR (measured) = 0.849 mW/g



5260MHz Body Leather Holster, Channel 52, A mode

Date/Time: 7/9/2010 12:30:23 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Body Medium parameters used: $f = 5200$ MHz; $\sigma = 5.38$ mho/m; $\epsilon_r = 46.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(4.07, 4.07, 4.07); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x131x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.26 mW/g

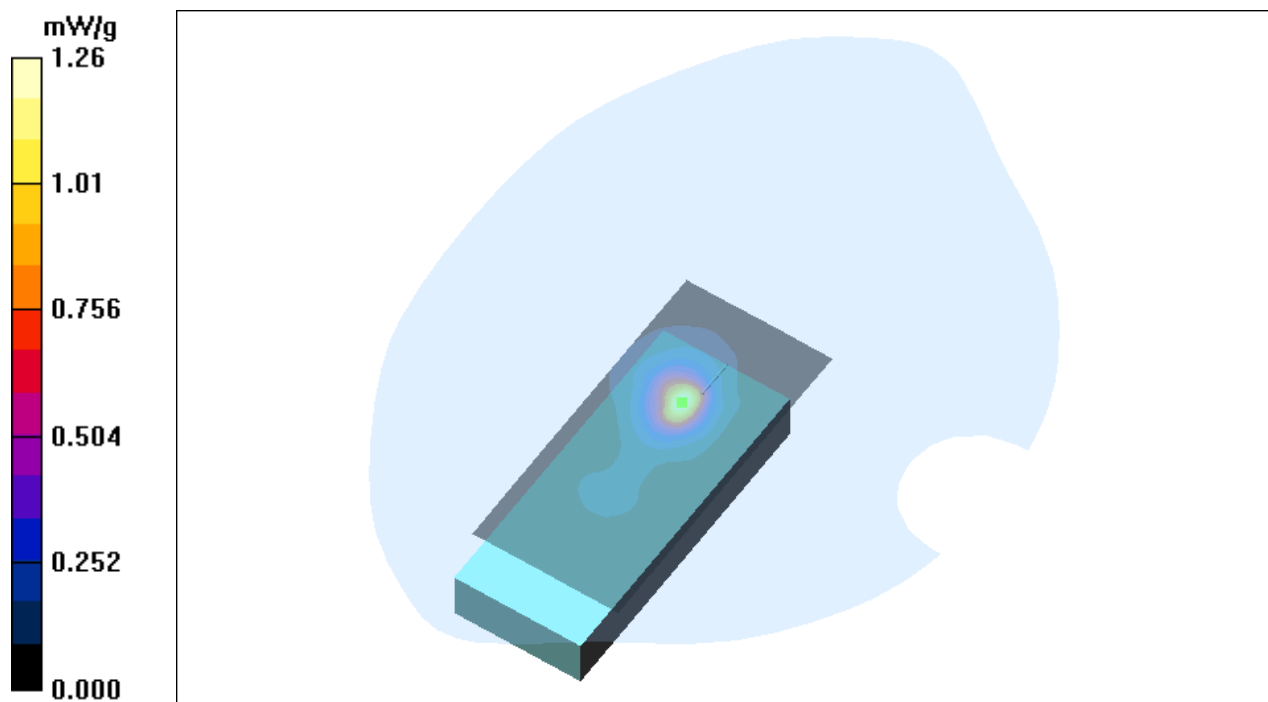
Zoom Scan (11x11x16)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 3.10 V/m; Power Drift = 0.34 dB

Peak SAR (extrapolated) = 2.74 W/kg

SAR(1 g) = 0.699 mW/g; SAR(10 g) = 0.203 mW/g

Maximum value of SAR (measured) = 1.45 mW/g



5260MHz Body Plastic Holster, Channel 52, A mode

Date/Time: 7/9/2010 11:37:48 AM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Body Medium parameters used: $f = 5200$ MHz; $\sigma = 5.38$ mho/m; $\epsilon_r = 46.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(4.07, 4.07, 4.07); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x131x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.704 mW/g

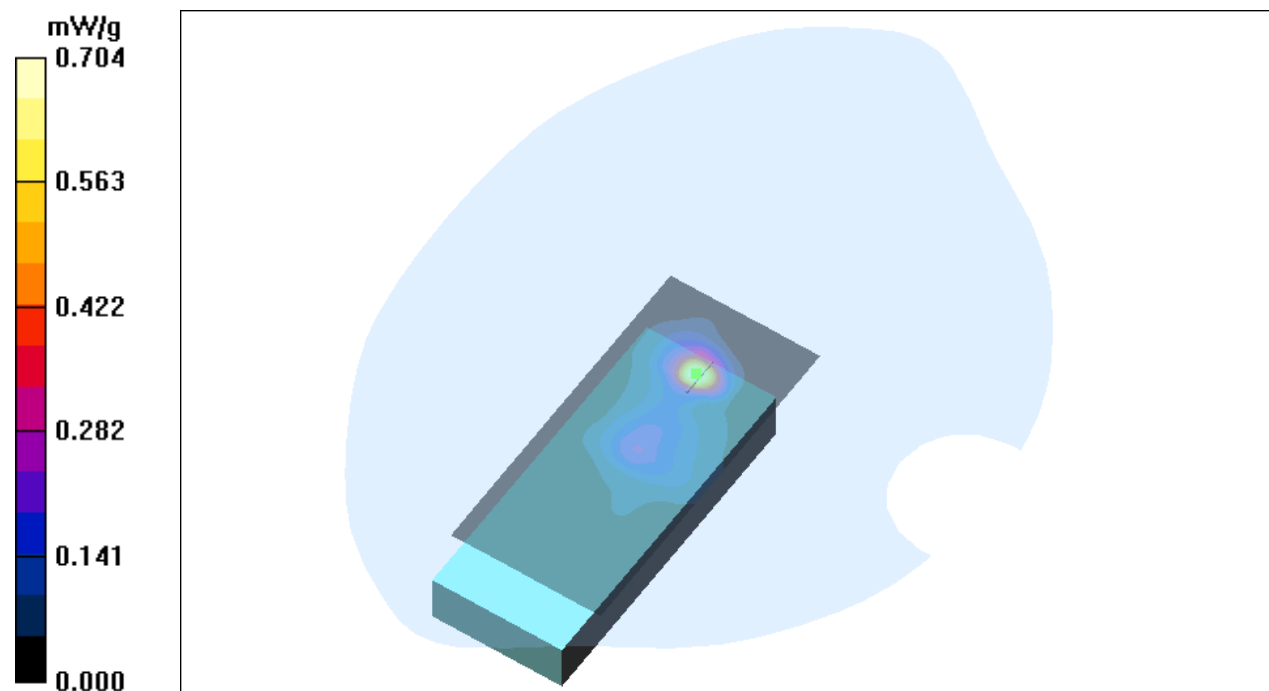
Zoom Scan (11x11x16)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 4.89 V/m; Power Drift = 0.697 dB

Peak SAR (extrapolated) = 1.35 W/kg

SAR(1 g) = 0.368 mW/g; SAR(10 g) = 0.105 mW/g

Maximum value of SAR (measured) = 0.744 mW/g



5320MHz Body Leather Holster, Channel 64, A mode

Date/Time: 7/9/2010 2:43:40 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Body Medium parameters used: $f = 5200$ MHz; $\sigma = 5.38$ mho/m; $\epsilon_r = 46.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(4.07, 4.07, 4.07); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x131x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.140 mW/g

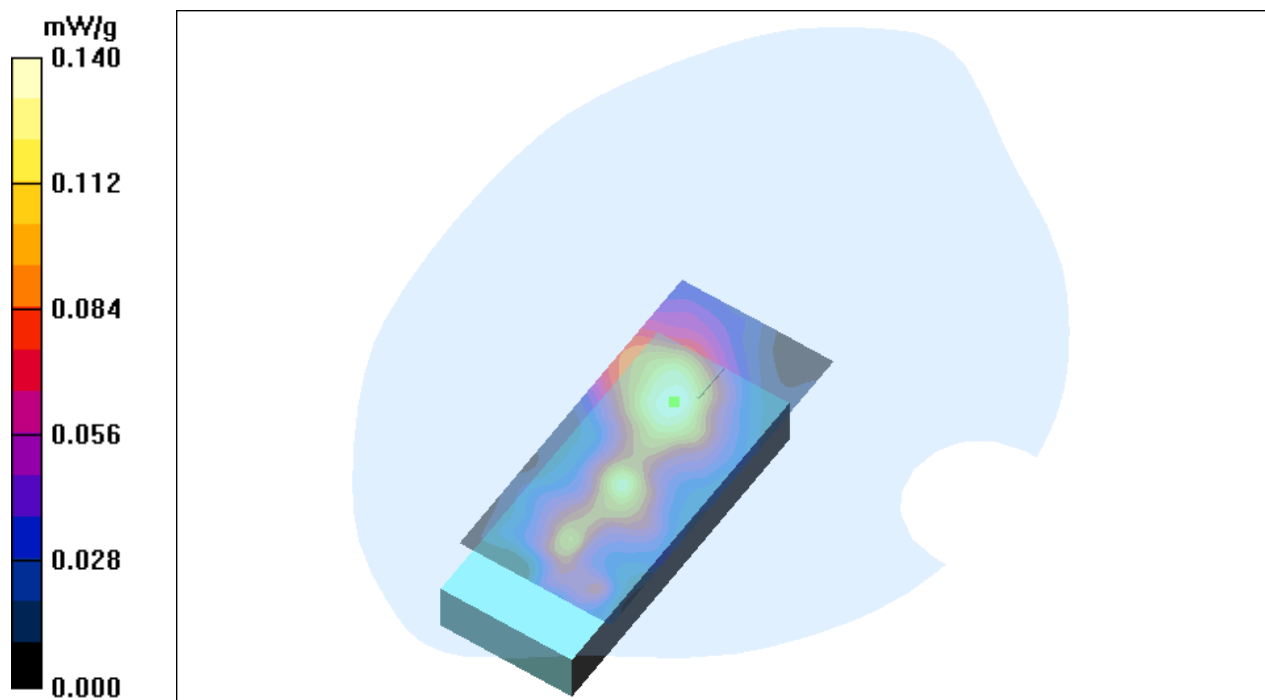
Zoom Scan (11x11x16)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 2.96 V/m; Power Drift = -0.49 dB

Peak SAR (extrapolated) = 0.443 W/kg

SAR(1 g) = 0.058 mW/g; SAR(10 g) = 0.022 mW/g

Maximum value of SAR (measured) = 0.128 mW/g



5320MHz Body Plastic Holster, Channel 64, A mode

Date/Time: 7/9/2010 1:25:44 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Body Medium parameters used: $f = 5200$ MHz; $\sigma = 5.38$ mho/m; $\epsilon_r = 46.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(4.07, 4.07, 4.07); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x131x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.776 mW/g

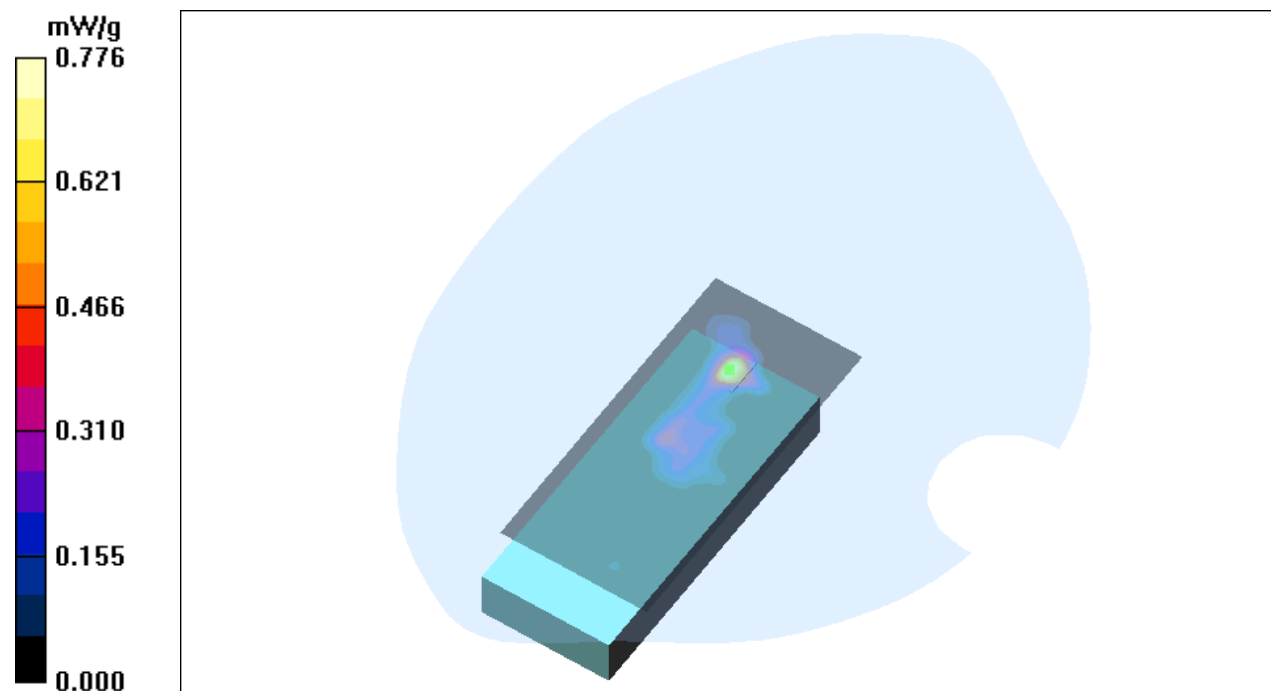
Zoom Scan (11x11x16)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 3.66 V/m; Power Drift = 1.01 dB

Peak SAR (extrapolated) = 0.909 W/kg

SAR(1 g) = 0.253 mW/g; SAR(10 g) = 0.066 mW/g

Maximum value of SAR (measured) = 0.521 mW/g



5520MHz Body Leather Holster, Channel 104, A mode

Date/Time: 7/9/2010 4:35:54 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Body Medium parameters used: $f = 5500$ MHz; $\sigma = 5.8$ mho/m; $\epsilon_r = 46.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(3.63, 3.63, 3.63); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x131x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.166 mW/g

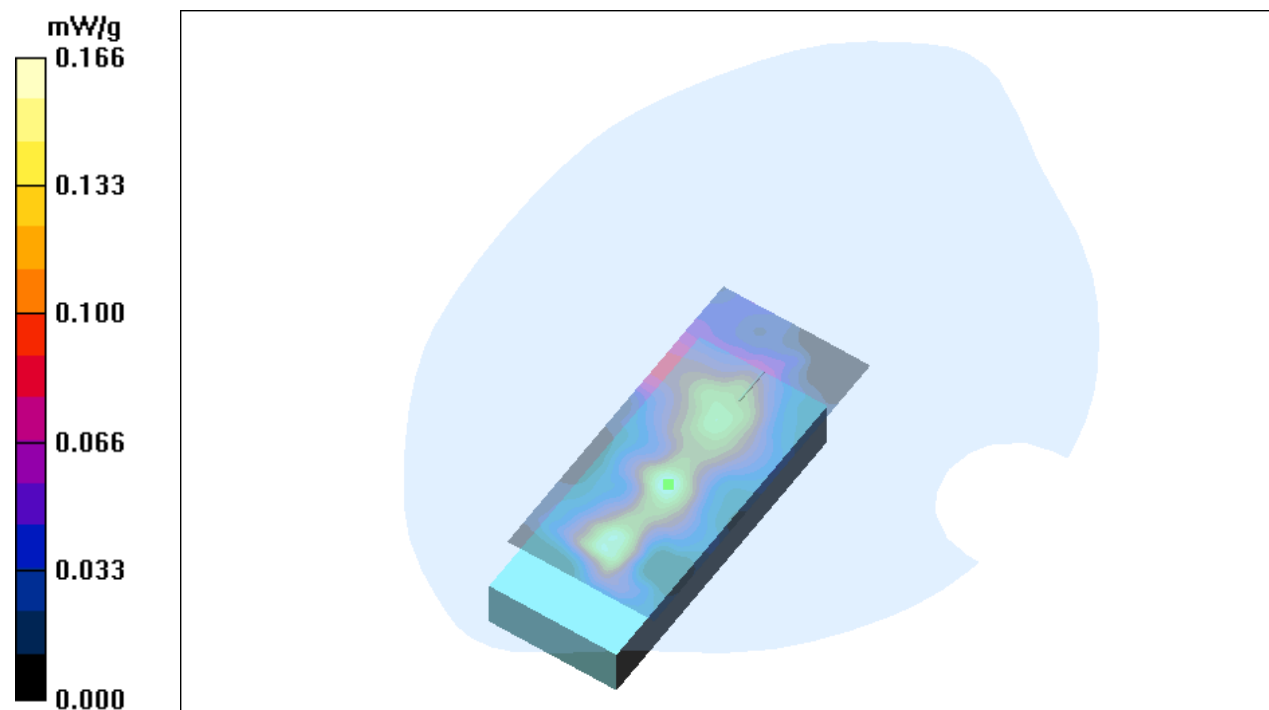
Zoom Scan (11x11x16)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 1.95 V/m; Power Drift = 0.92 dB

Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.093 mW/g; SAR(10 g) = 0.035 mW/g

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



5520MHz Body Plastic Holster, Channel 104, A mode

Date/Time: 7/9/2010 3:31:32 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Body Medium parameters used: $f = 5500$ MHz; $\sigma = 5.8$ mho/m; $\epsilon_r = 46.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(3.63, 3.63, 3.63); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x131x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.819 mW/g

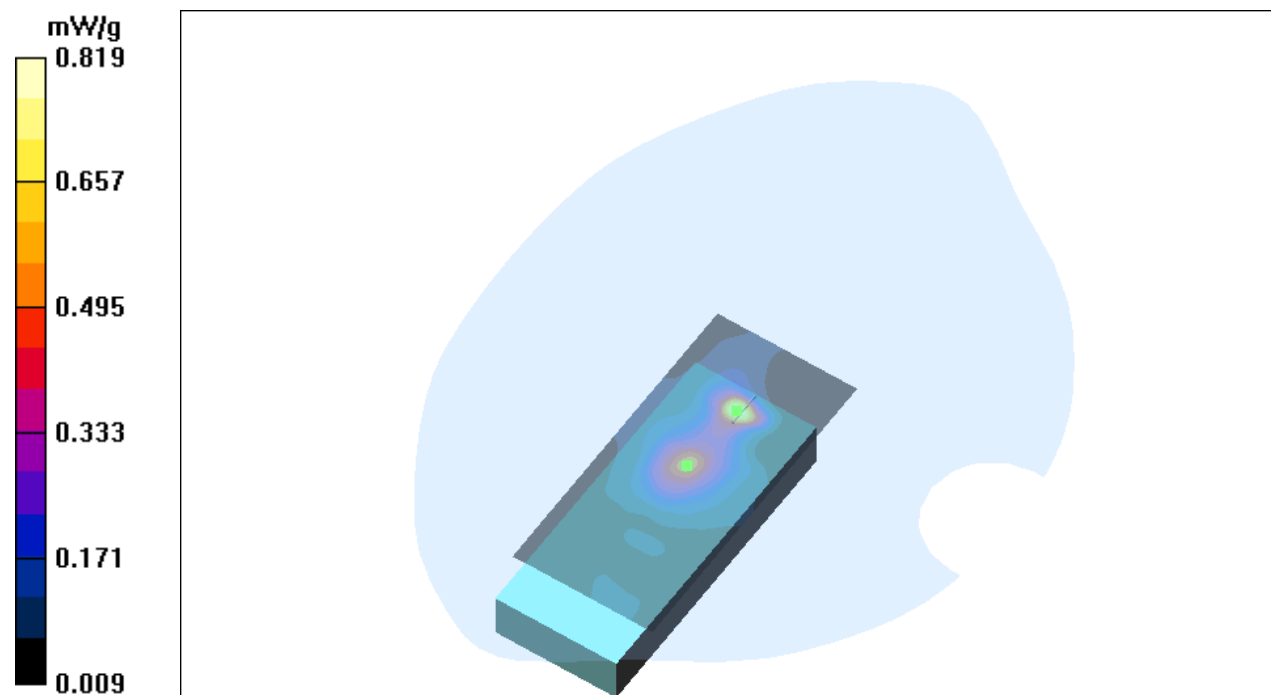
Zoom Scan (11x11x16)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 3.27 V/m; Power Drift = -0.934 dB

Peak SAR (extrapolated) = 1.50 W/kg

SAR(1 g) = 0.406 mW/g; SAR(10 g) = 0.133 mW/g

Maximum value of SAR (measured) = 0.867 mW/g



5580MHz Body Leather Holster, Channel 116, A mode

Date/Time: 7/12/2010 10:24:39 AM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Body Medium parameters used: $f = 5500$ MHz; $\sigma = 5.83$ mho/m; $\epsilon_r = 47.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(3.63, 3.63, 3.63); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x131x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.344 mW/g

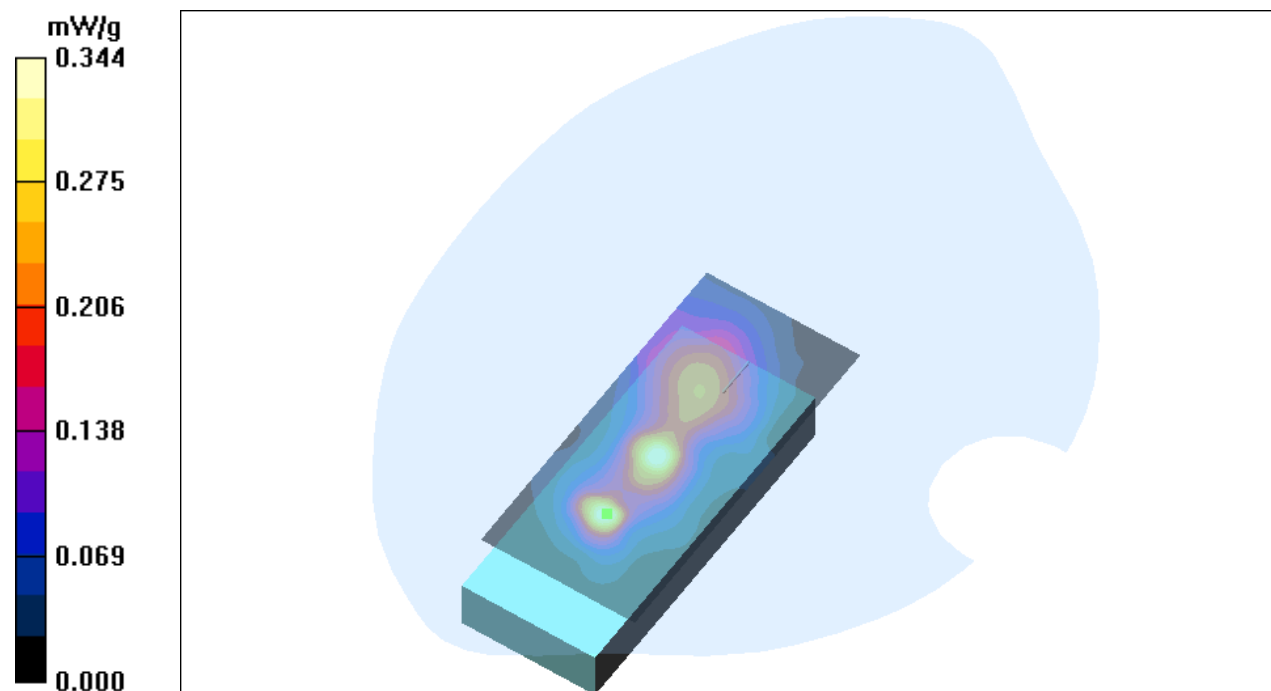
Zoom Scan (11x11x16)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 3.20 V/m; Power Drift = -0.694 dB

Peak SAR (extrapolated) = 0.609 W/kg

SAR(1 g) = 0.169 mW/g; SAR(10 g) = 0.060 mW/g

Maximum value of SAR (measured) = 0.344 mW/g



5580MHz Body Plastic Holster, A mode

Date/Time: 7/12/2010 10:30:35 AM

DUT: Cisco; Type: CP-7925

Communication System: OFDM; ; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Body Medium parameters used: $f = 5500$ MHz; $\sigma = 5.83$ mho/m; $\epsilon_r = 47.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(3.63, 3.63, 3.63); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x131x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.25 mW/g

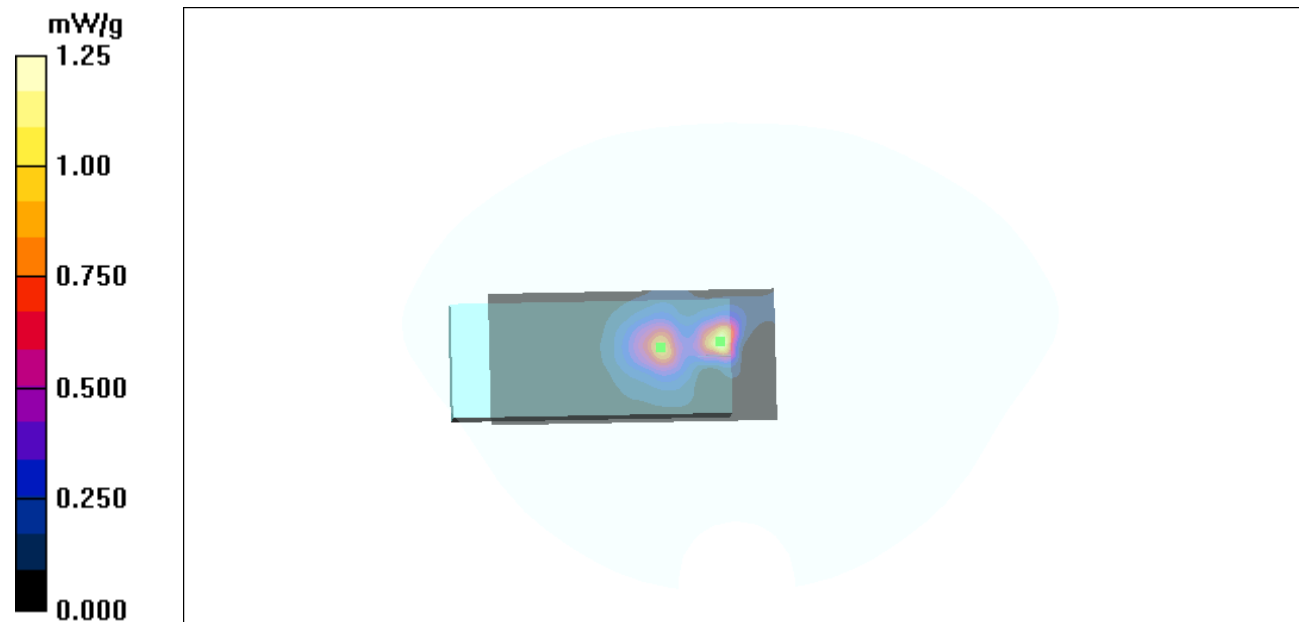
Zoom Scan (11x11x16)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 7.18 V/m; Power Drift = 0.485 dB

Peak SAR (extrapolated) = 4.36 W/kg

SAR(1 g) = 0.628 mW/g; SAR(10 g) = 0.159 mW/g

Maximum value of SAR (measured) = 1.33 mW/g



5620MHz Body Leather Holster, Channel 124, A mode

Date/Time: 7/12/2010 11:17:52 AM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Body Medium parameters used: $f = 5500$ MHz; $\sigma = 5.83$ mho/m; $\epsilon_r = 47.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(3.63, 3.63, 3.63); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x131x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.217 mW/g

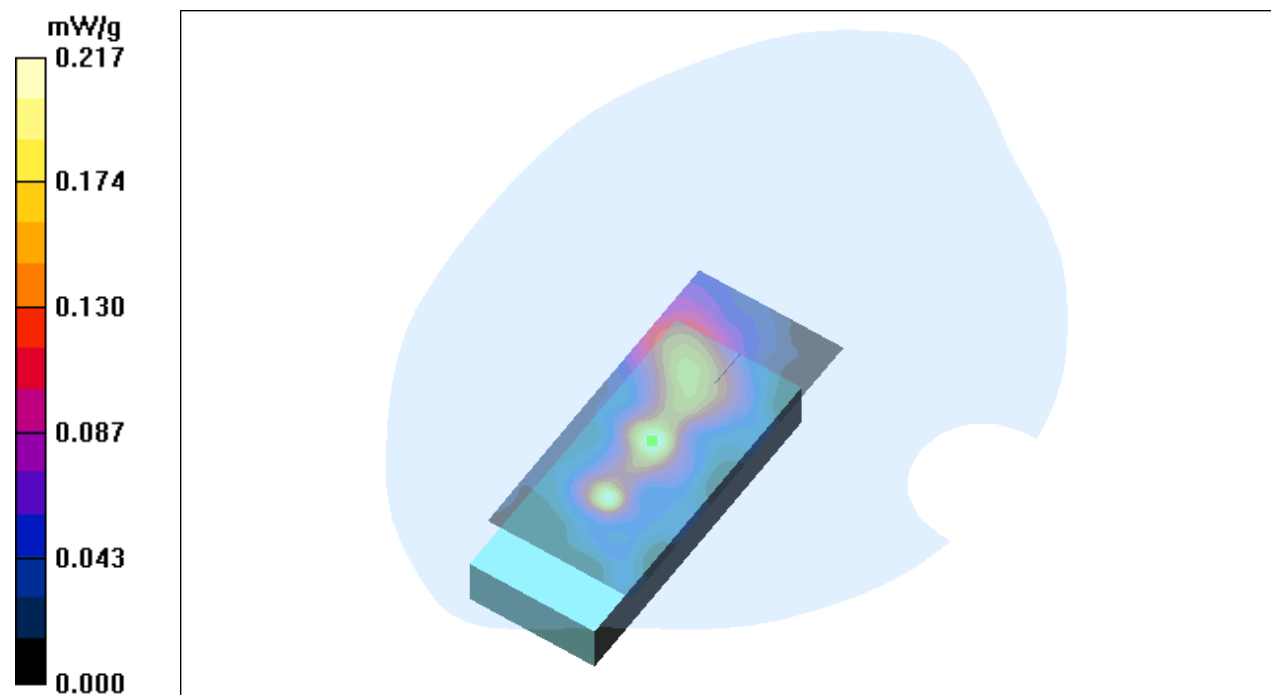
Zoom Scan (11x11x16)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 2.64 V/m; Power Drift = -0.205 dB

Peak SAR (extrapolated) = 0.356 W/kg

SAR(1 g) = 0.112 mW/g; SAR(10 g) = 0.046 mW/g

Maximum value of SAR (measured) = 0.212 mW/g



5620MHz Body Plastic Holster, Channel 124, A mode

Date/Time: 7/12/2010 12:11:20 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg

Communication System: OFDM; ; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Body Medium parameters used: $f = 5500$ MHz; $\sigma = 5.83$ mho/m; $\epsilon_r = 47.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(3.63, 3.63, 3.63); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x131x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.11 mW/g

Zoom Scan (11x11x16)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 1.56 V/m; Power Drift = 0.88 dB

Peak SAR (extrapolated) = 2.22 W/kg

SAR(1 g) = 0.505 mW/g; SAR(10 g) = 0.136 mW/g

Maximum value of SAR (measured) = 1.07 mW/g



5680MHz Body Leather Holster, Channel 136, A mode

Date/Time: 7/12/2010 1:04:54 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Body Medium parameters used: $f = 5500$ MHz; $\sigma = 5.83$ mho/m; $\epsilon_r = 47.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(3.63, 3.63, 3.63); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x131x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.145 mW/g

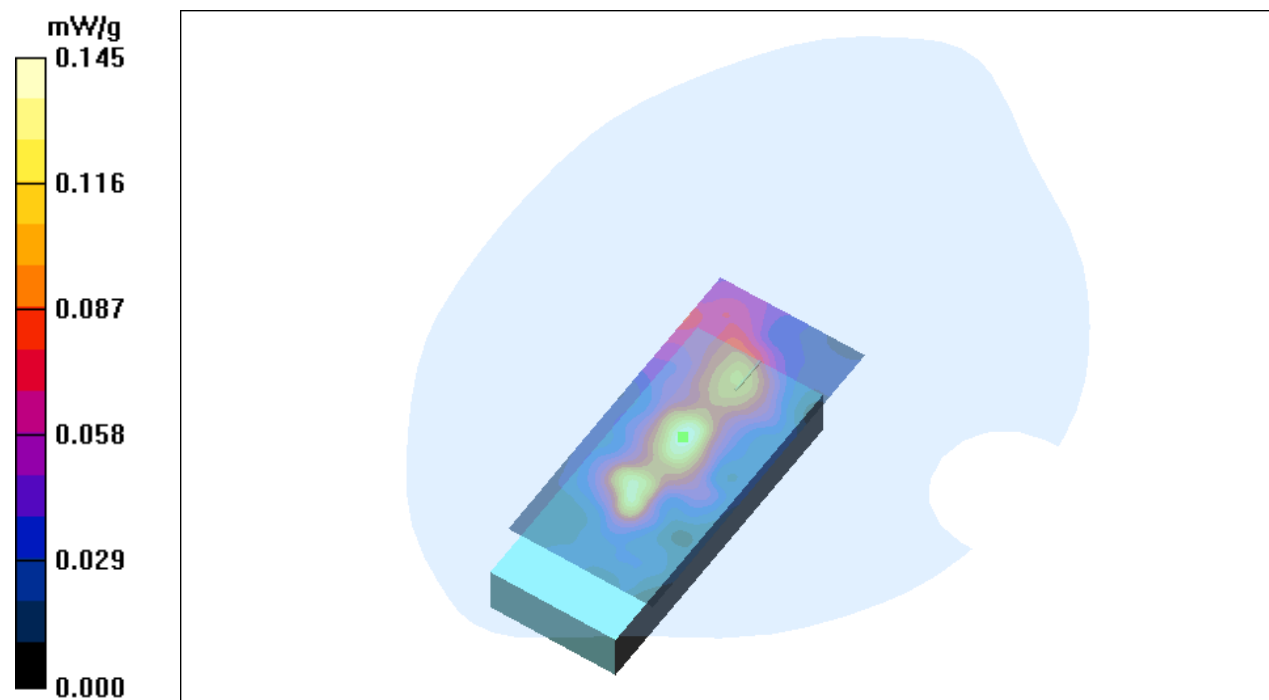
Zoom Scan (11x11x16)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 2.18 V/m; Power Drift = 0.673 dB

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.079 mW/g; SAR(10 g) = 0.029 mW/g

Maximum value of SAR (measured) = 0.140 mW/g



5680MHz Body Plastic Holster, Channel 136, A mode

Date/Time: 7/12/2010 1:59:13 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Body Medium parameters used: $f = 5500$ MHz; $\sigma = 5.83$ mho/m; $\epsilon_r = 47.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(3.63, 3.63, 3.63); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x131x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.648 mW/g

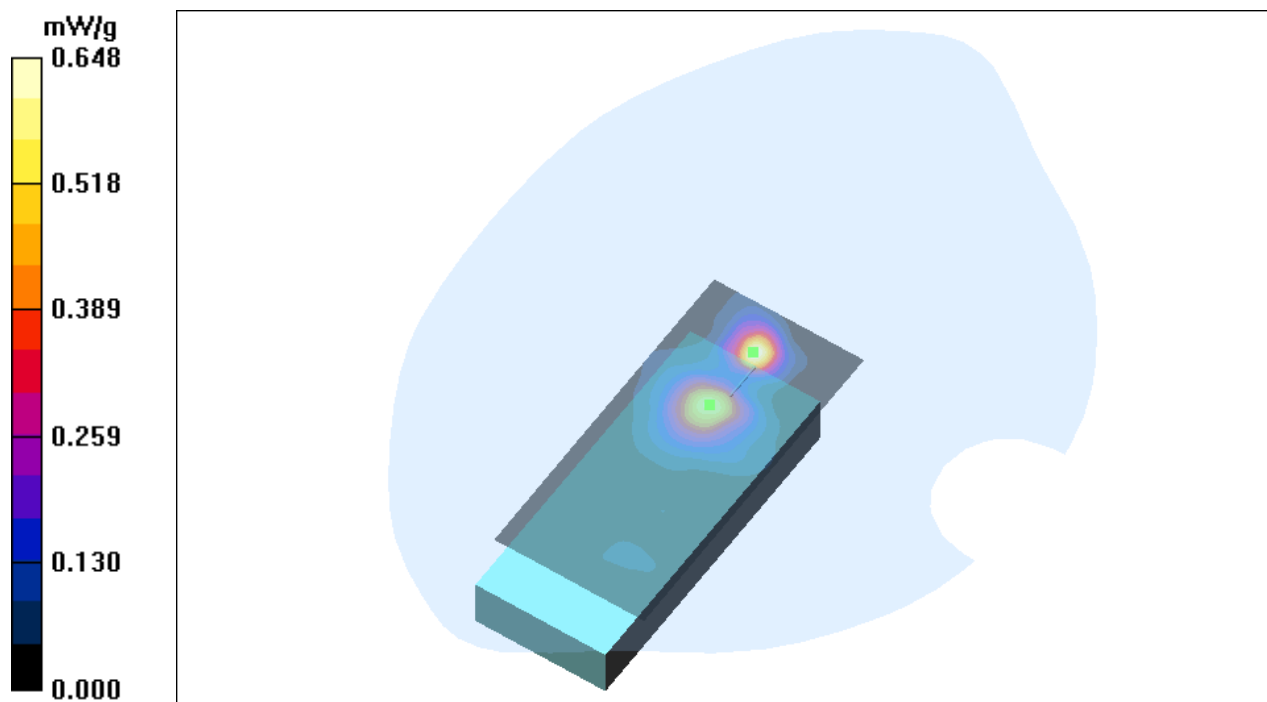
Zoom Scan (11x11x16)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 7.79 V/m; Power Drift = 0.121 dB

Peak SAR (extrapolated) = 1.38 W/kg

SAR(1 g) = 0.337 mW/g; SAR(10 g) = 0.080 mW/g

Maximum value of SAR (measured) = 0.727 mW/g



5745MHz Body Leather Holster, Channel 149 A mode

Date/Time: 7/12/2010 3:54:14 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Body Medium parameters used: $f = 5800$ MHz; $\sigma = 6.29$ mho/m; $\epsilon_r = 46.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(3.68, 3.68, 3.68); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x131x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.135 mW/g

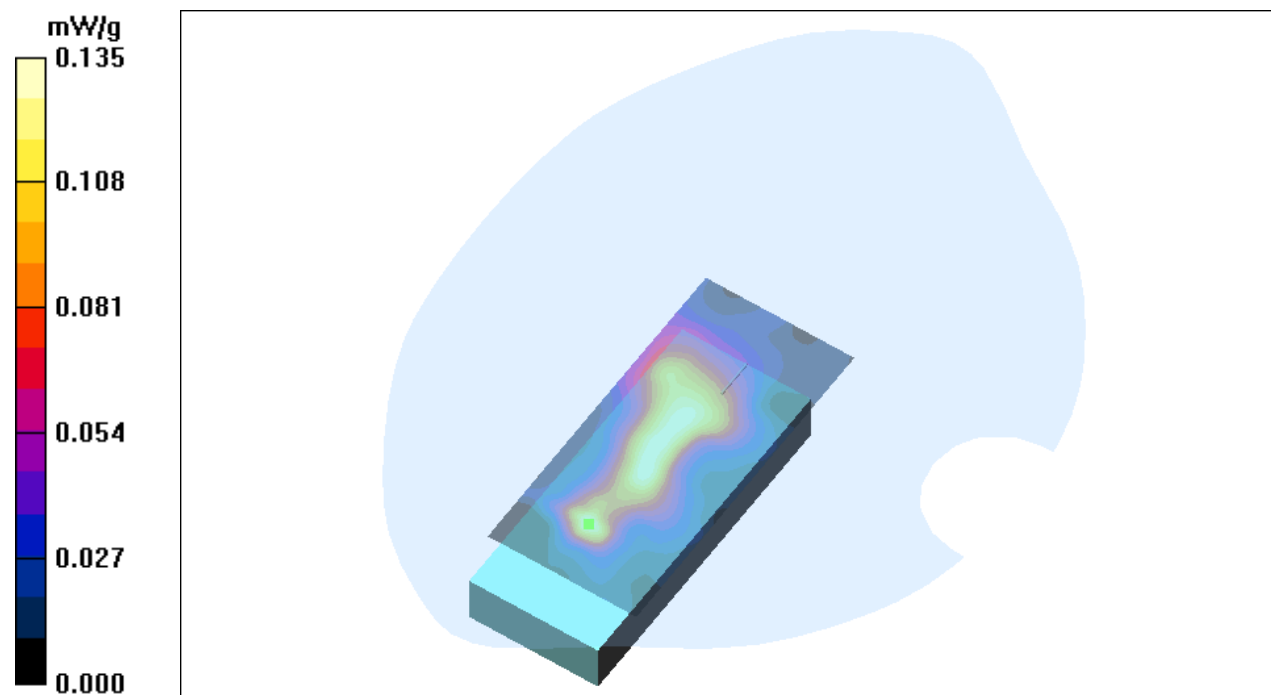
Zoom Scan (11x11x16)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 1.70 V/m; Power Drift = 0.45 dB

Peak SAR (extrapolated) = 0.249 W/kg

SAR(1 g) = 0.061 mW/g; SAR(10 g) = 0.019 mW/g

Maximum value of SAR (measured) = 0.130 mW/g



5745MHz Body Plastic Holster, Channel 149, A mode

Date/Time: 7/12/2010 2:58:03 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Body Medium parameters used: $f = 5800$ MHz; $\sigma = 6.29$ mho/m; $\epsilon_r = 46.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(3.68, 3.68, 3.68); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x131x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.808 mW/g

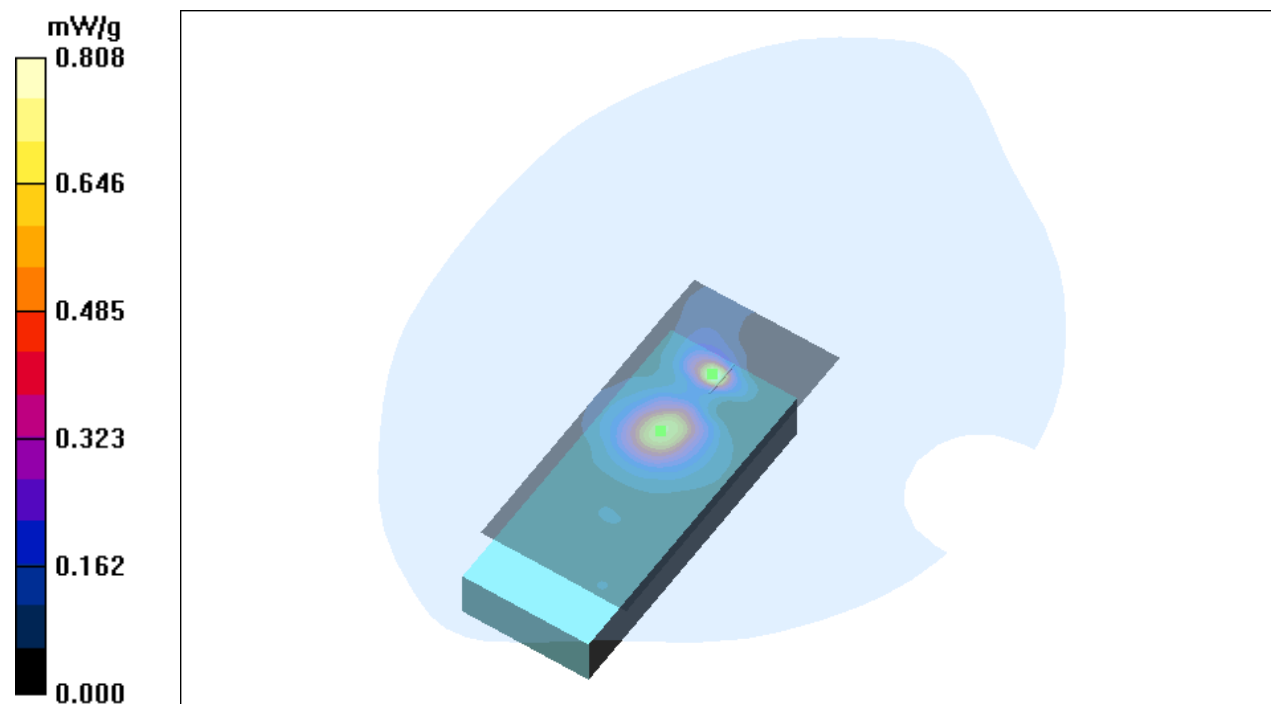
Zoom Scan (11x11x16)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 3.06 V/m; Power Drift = 0.918 dB

Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.310 mW/g; SAR(10 g) = 0.072 mW/g

Maximum value of SAR (measured) = 0.777 mW/g



5805MHz Body Plastic Holster, Channel 161, A mode

Date/Time: 7/12/2010 5:06:56 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Body Medium parameters used: $f = 5800$ MHz; $\sigma = 6.29$ mho/m; $\epsilon_r = 46.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(3.68, 3.68, 3.68); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x131x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.737 mW/g

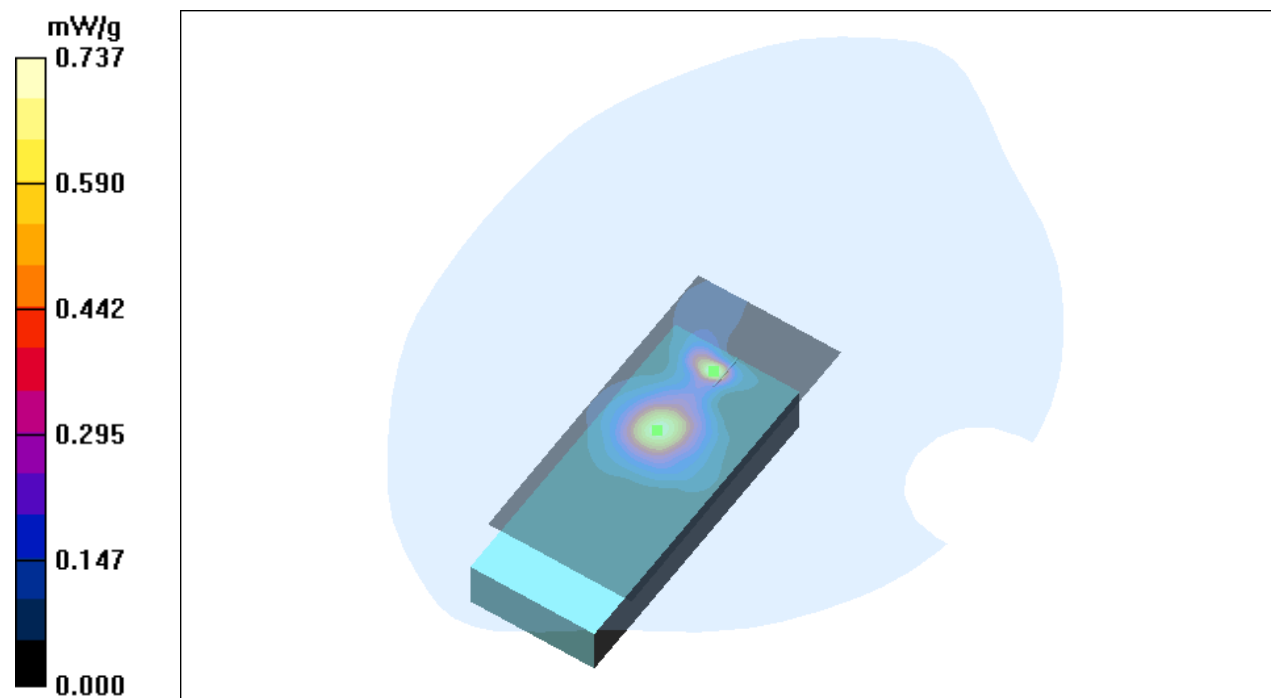
Zoom Scan (11x11x16)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 1.94 V/m; Power Drift = -0.39 dB

Peak SAR (extrapolated) = 1.48 W/kg

SAR(1 g) = 0.330 mW/g; SAR(10 g) = 0.079 mW/g

Maximum value of SAR (measured) = 0.748 mW/g



5805MHz Body Leather Holster, Channel 161, A mode

Date/Time: 7/12/2010 5:58:29 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Body Medium parameters used: $f = 5800$ MHz; $\sigma = 6.29$ mho/m; $\epsilon_r = 46.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(3.68, 3.68, 3.68); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x131x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.139 mW/g

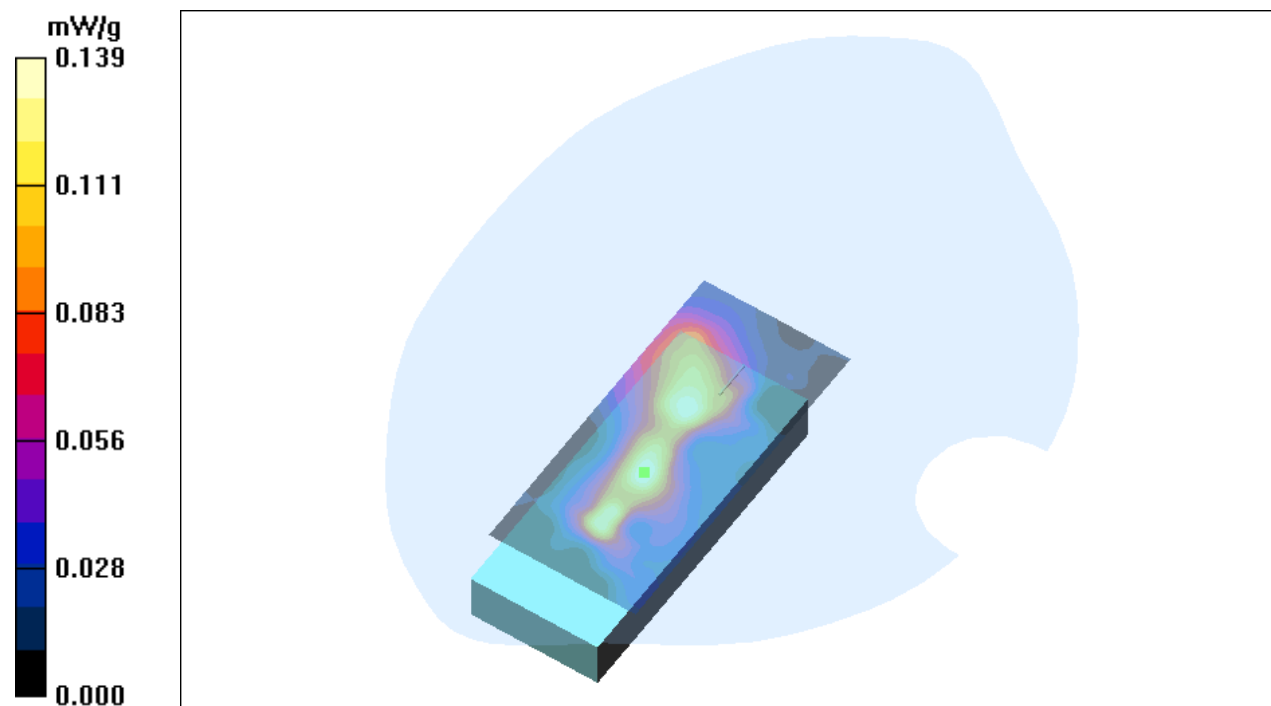
Zoom Scan (11x11x16)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 3.11 V/m; Power Drift = -0.57 dB

Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.107 mW/g; SAR(10 g) = 0.029 mW/g

Maximum value of SAR (measured) = 0.139 mW/g



5240MHz Body Leather Holster, Channel 48, A mode, with extended battery

Date/Time: 7/12/2010 7:06:15 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Body Medium parameters used: $f = 5200$ MHz; $\sigma = 5.4$ mho/m; $\epsilon_r = 48.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(4.07, 4.07, 4.07); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x131x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.193 mW/g

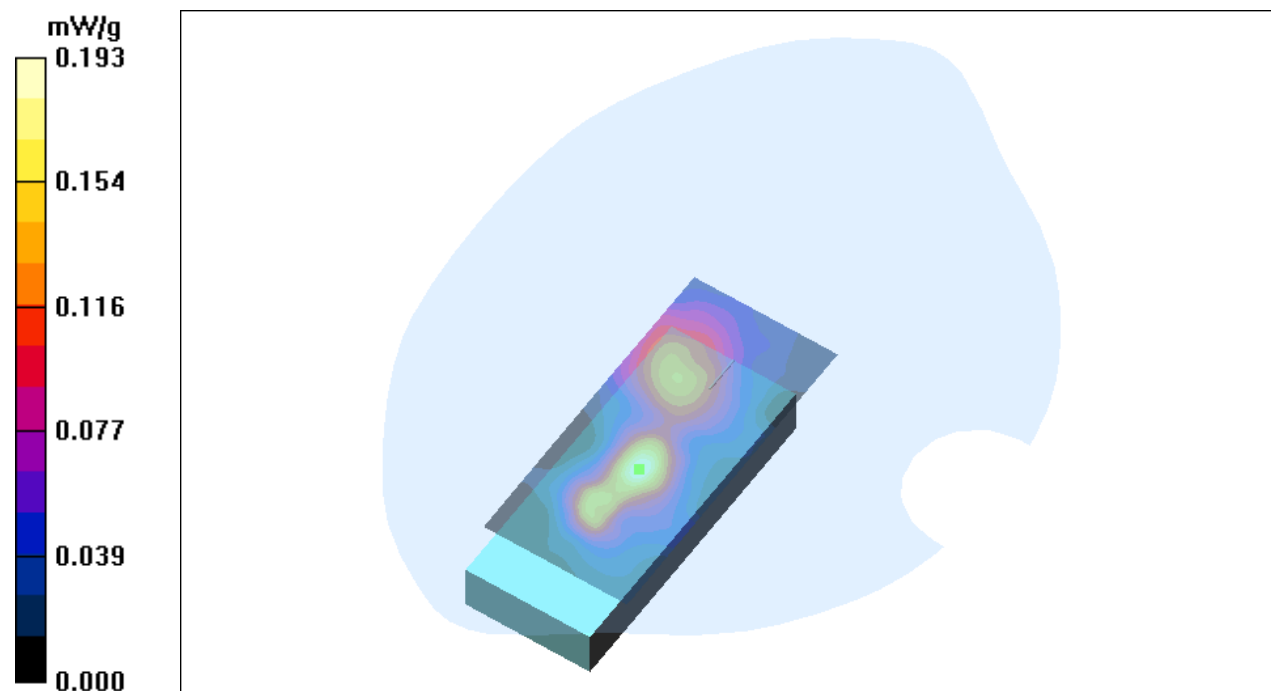
Zoom Scan (11x11x16)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 2.68 V/m; Power Drift = 0.405 dB

Peak SAR (extrapolated) = 1.74 W/kg

SAR(1 g) = 0.144 mW/g; SAR(10 g) = 0.029 mW/g

Maximum value of SAR (measured) = 0.192 mW/g



5580MHz Body Plastic Holster, Channel 116, A mode, with extended battery

Date/Time: 7/12/2010 8:03:45 PM

DUT: Cisco; Type: CP-7926G

Medium Notes: Ambient Temp: 22.0 deg C; Fluid Temp: 21.6 deg C

Communication System: OFDM; ; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Body Medium parameters used: $f = 5500$ MHz; $\sigma = 5.83$ mho/m; $\epsilon_r = 47.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(3.63, 3.63, 3.63); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x131x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.30 mW/g

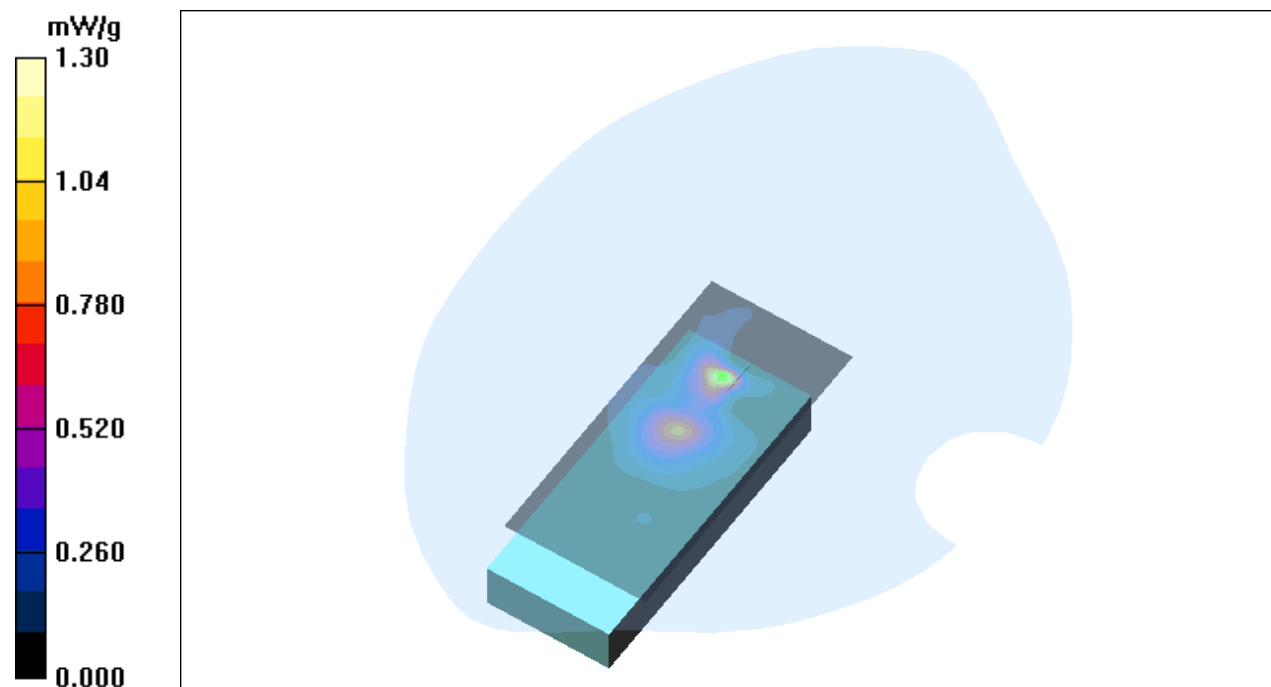
Zoom Scan (11x11x16)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 8.154 V/m; Power Drift = 0.004 dB

Peak SAR (extrapolated) = 2.27 W/kg

SAR(1 g) = 0.552 mW/g; SAR(10 g) = 0.153 mW/g

Maximum value of SAR (measured) = 1.14 mW/g





APPENDIX B - SYSTEM PERFORMANCE CHECK

2450MHz Head Validation

Date/Time: 6/29/2010 8:03:58 AM

DUT: Dipole 2450 MHz; Type: 1S2570

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

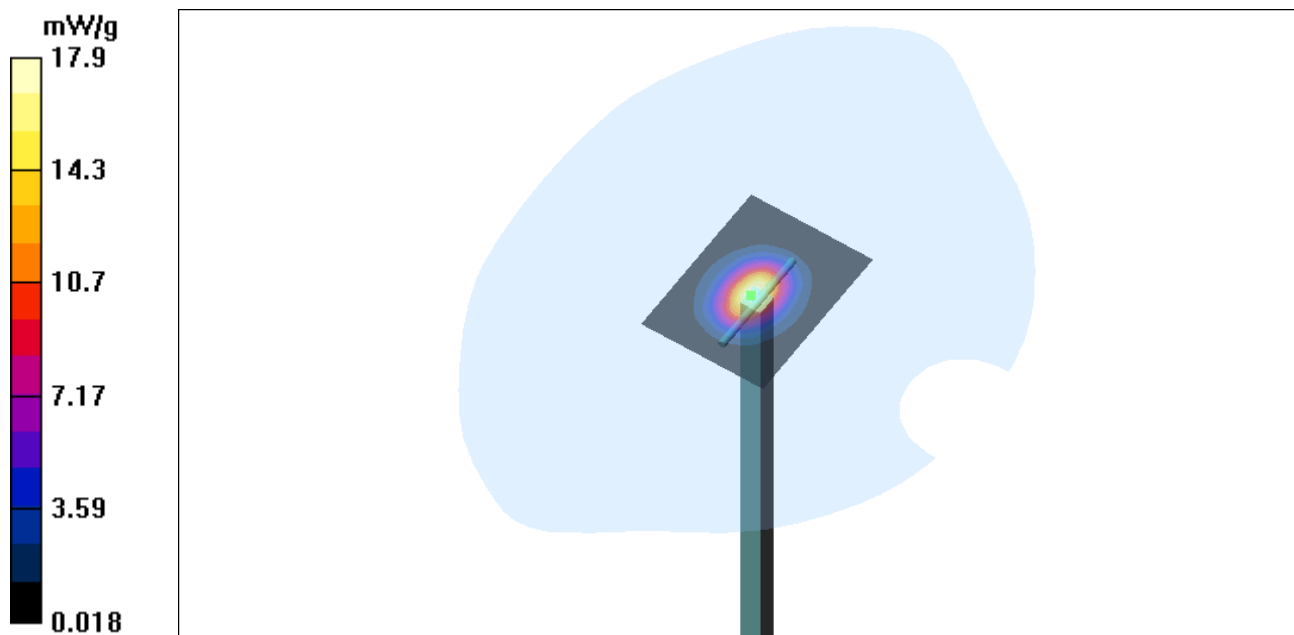
Medium: H2450 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.87$ mho/m; $\epsilon_r = 38.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(6.65, 6.65, 6.65); Calibrated: 5/19/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x81x1): Measurement grid: $dx=10$ mm, $dy=10$ mm
Maximum value of SAR (interpolated) = 17.9 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm
Reference Value = 95.9 V/m; Power Drift = -0.023 dB
Peak SAR (extrapolated) = 34.8 W/kg
SAR(1 g) = 15.3 mW/g; SAR(10 g) = 6.72 mW/g
Maximum value of SAR (measured) = 17.4 mW/g



2450MHz Body Validation

Date/Time: 7/15/2010 8:13:24 AM

DUT: Dipole 2450 MHz; Type: 1S2570

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

Medium: M2450 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 52$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(6.82, 6.82, 6.82); Calibrated: 5/19/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x81x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (interpolated) = 15.5 mW/g

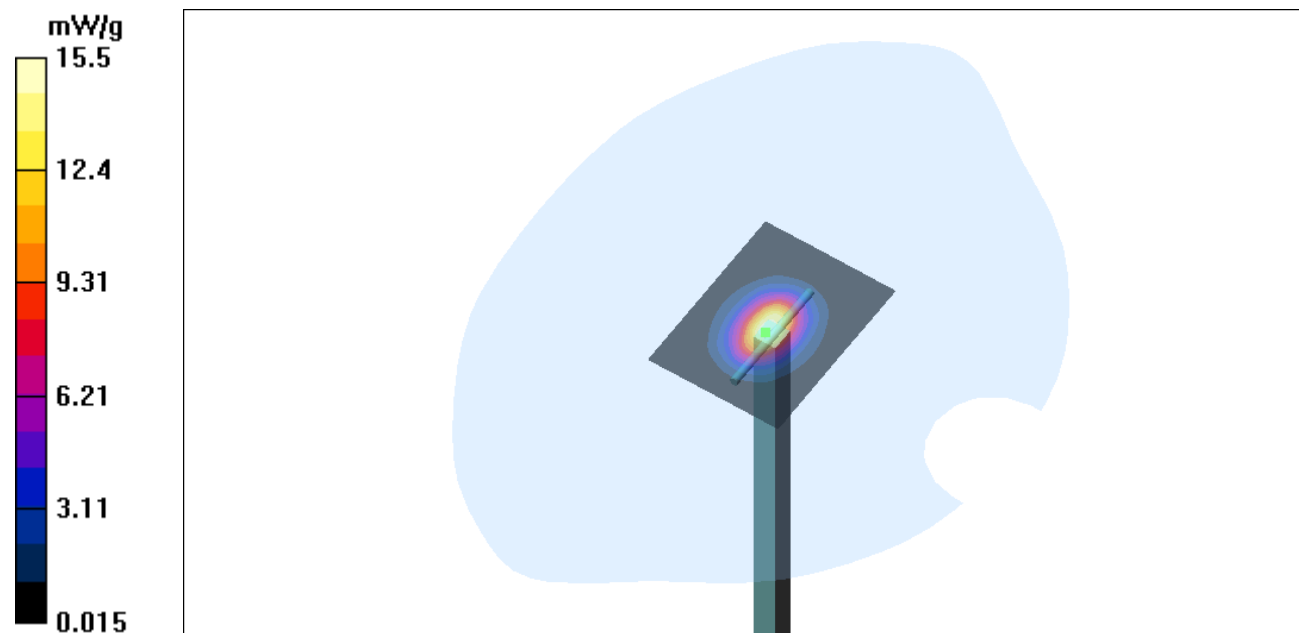
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 89.5 V/m; Power Drift = -0.122 dB

Peak SAR (extrapolated) = 28.8 W/kg

SAR(1 g) = 13.3 mW/g; SAR(10 g) = 5.88 mW/g

Maximum value of SAR (measured) = 15.1 mW/g



5200MHz Head Validation

Date/Time: 7/13/2010 7:48:04 AM

DUT: Dipole 5000 MHz; Type: D5500V2

Communication System: CW; ; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Head Medium parameters used: $f = 5200$ MHz; $\sigma = 4.82$ mho/m; $\epsilon_r = 34.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(4.65, 4.65, 4.65); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

d=10mm, Pin=250mW, f=5200 MHz/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 38.8 mW/g

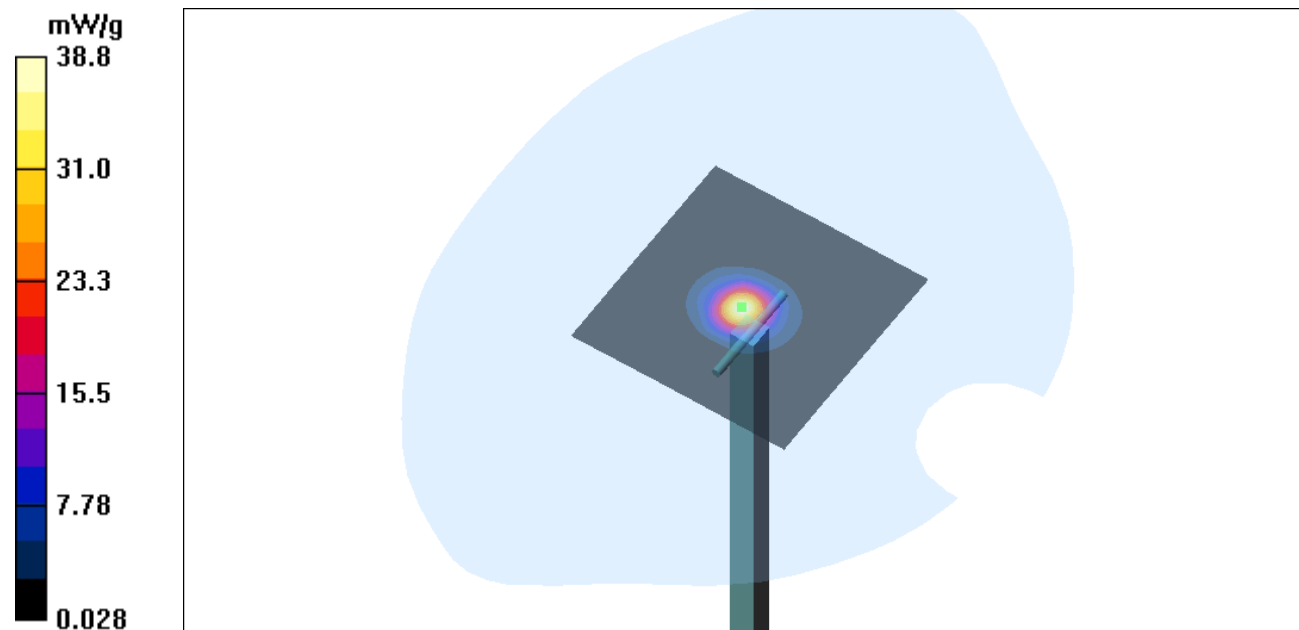
d=10mm, Pin=250mW, f=5200 MHz/Zoom Scan (3x3x2mm, graded), dist=2mm (11x11x6)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 77.4 V/m; Power Drift = -0.151 dB

Peak SAR (extrapolated) = 75.9 W/kg

SAR(1 g) = 19.2 mW/g; SAR(10 g) = 5.97 mW/g

Maximum value of SAR (measured) = 38.8 mW/g



5500MHz Head Validation

Date/Time: 7/13/2010 8:59:27 AM

DUT: Dipole 5000 MHz; Type: D5500V2

Communication System: CW; ; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Head Medium parameters used: $f = 5500$ MHz; $\sigma = 5.13$ mho/m; $\epsilon_r = 34$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(4.3, 4.3, 4.3); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

d=10mm, Pin=250mW, f=5500 MHz/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 40.6 mW/g

d=10mm, Pin=250mW, f=5500 MHz/Zoom Scan (3x3x2mm, graded), dist=2mm (11x11x6)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 74.2 V/m; Power Drift = 0.004 dB

Peak SAR (extrapolated) = 79.5 W/kg

SAR(1 g) = 19.6 mW/g; SAR(10 g) = 6.21 mW/g

Maximum value of SAR (measured) = 38.9 mW/g



5800MHz Head Validation

Date/Time: 7/13/2010 9:41:59 AM

DUT: Dipole 5000 MHz; Type: D5500V2

Communication System: CW; ; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Head Medium parameters used: $f = 5800$ MHz; $\sigma = 5.51$ mho/m; $\epsilon_r = 33.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(4.09, 4.09, 4.09); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

d=10mm, Pin=250mW, f=5800 MHz/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 38.3 mW/g

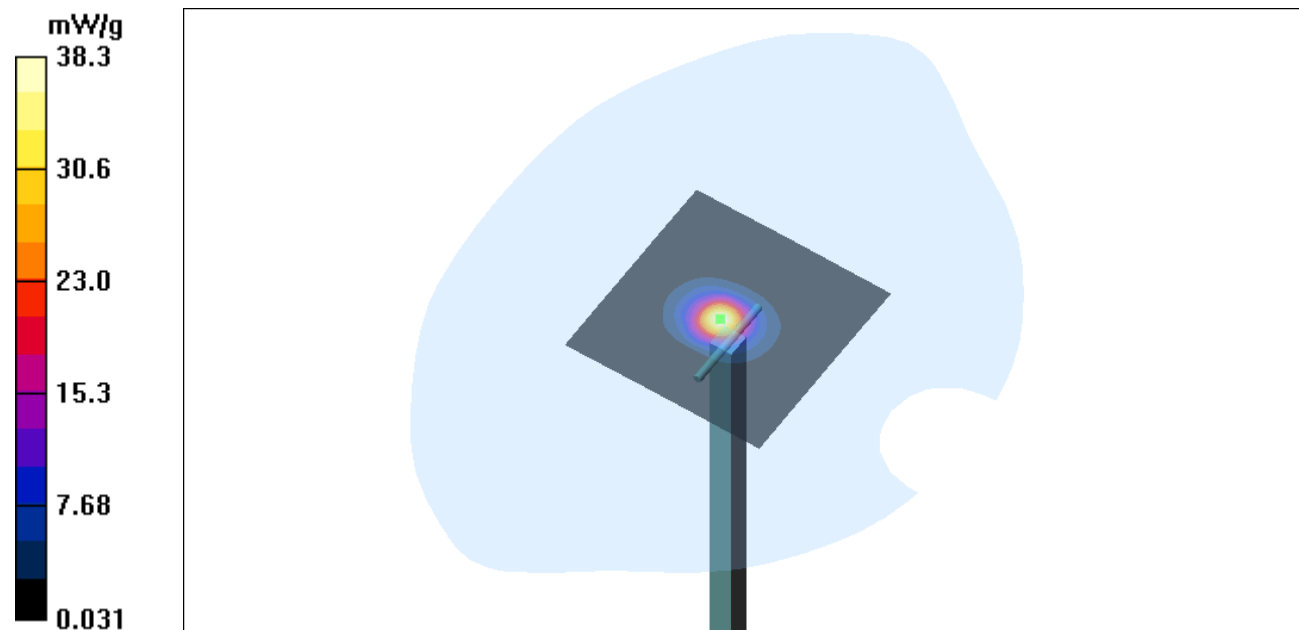
d=10mm, Pin=250mW, f=5800 MHz/Zoom Scan (3x3x2mm, graded), dist=2mm (11x11x6)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 71.1 V/m; Power Drift = 0.051 dB

Peak SAR (extrapolated) = 81.6 W/kg

SAR(1 g) = 18.8 mW/g; SAR(10 g) = 5.98 mW/g

Maximum value of SAR (measured) = 38.3 mW/g



5200MHz Head Validation

Date/Time: 7/14/2010 8:18:04 AM

DUT: Dipole 5000 MHz; Type: D5500V2

Communication System: CW; ; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Head Medium parameters used: $f = 5200$ MHz; $\sigma = 4.81$ mho/m; $\epsilon_r = 34.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(4.65, 4.65, 4.65); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

d=10mm, Pin=250mW, f=5200 MHz/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 38.7 mW/g

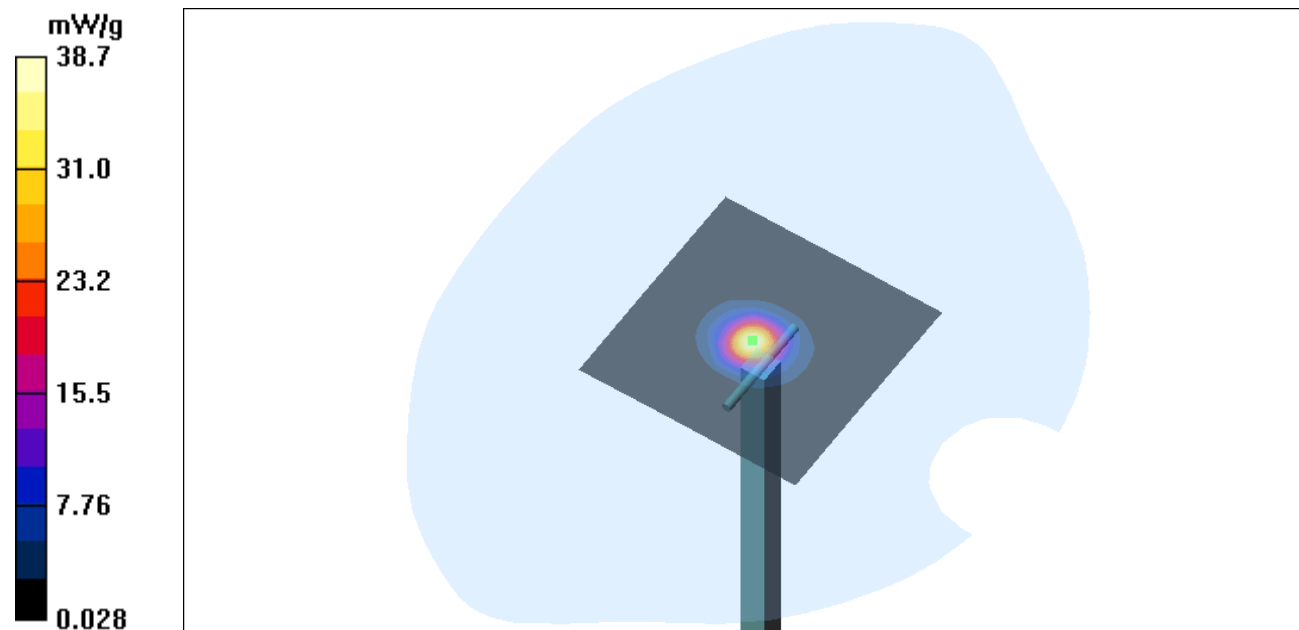
d=10mm, Pin=250mW, f=5200 MHz/Zoom Scan (3x3x2mm, graded), dist=2mm (11x11x6)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 77.4 V/m; Power Drift = -0.151 dB

Peak SAR (extrapolated) = 75.7 W/kg

SAR(1 g) = 19.1 mW/g; SAR(10 g) = 5.96 mW/g

Maximum value of SAR (measured) = 38.7 mW/g



5500MHz Head Validation

Date/Time: 7/14/2010 8:59:27 AM

DUT: Dipole 5000 MHz; Type: D5500V2

Communication System: CW; ; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Head Medium parameters used: $f = 5500$ MHz; $\sigma = 5.13$ mho/m; $\epsilon_r = 34.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(4.3, 4.3, 4.3); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

d=10mm, Pin=250mW, f=5500 MHz/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 40.6 mW/g

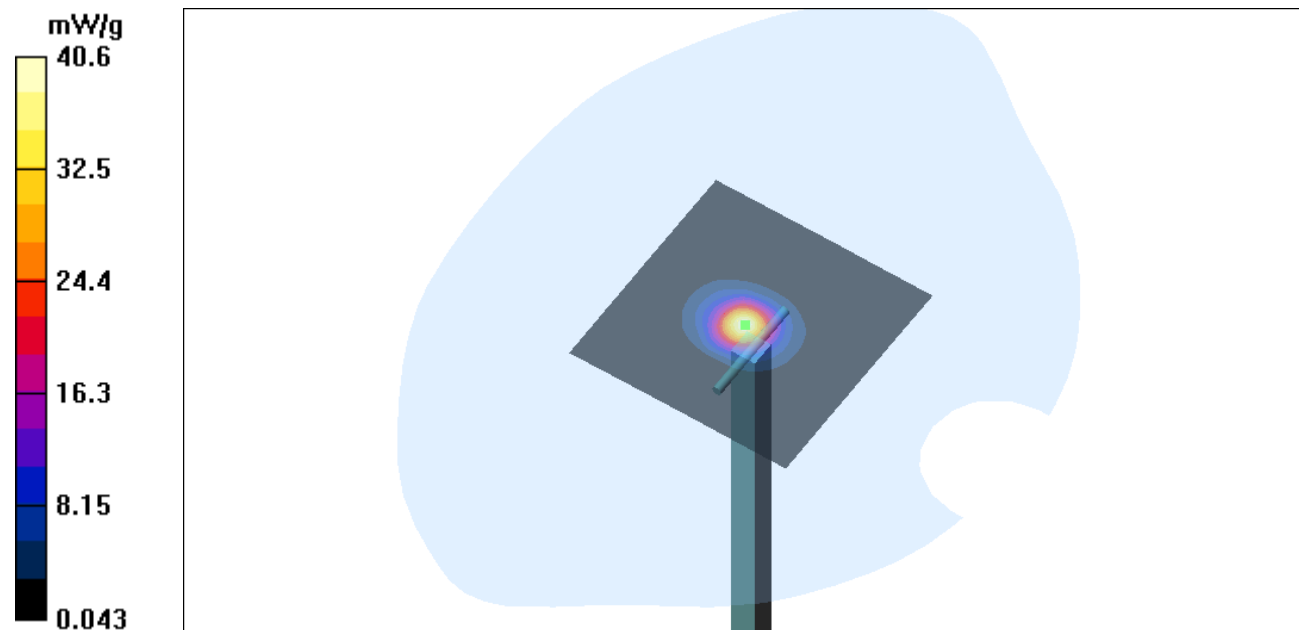
d=10mm, Pin=250mW, f=5500 MHz/Zoom Scan (3x3x2mm, graded), dist=2mm (11x11x6)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 74.2 V/m; Power Drift = 0.004 dB

Peak SAR (extrapolated) = 79.5 W/kg

SAR(1 g) = 19.6 mW/g; SAR(10 g) = 6.21 mW/g

Maximum value of SAR (measured) = 38.9 mW/g



5800MHz Head Validation

Date/Time: 7/14/2010 9:41:59 AM

DUT: Dipole 5000 MHz; Type: D5500V2

Communication System: CW; ; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Head Medium parameters used: $f = 5800$ MHz; $\sigma = 5.5$ mho/m; $\epsilon_r = 33.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(4.09, 4.09, 4.09); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

d=10mm, Pin=250mW, f=5800 MHz/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 38.2 mW/g

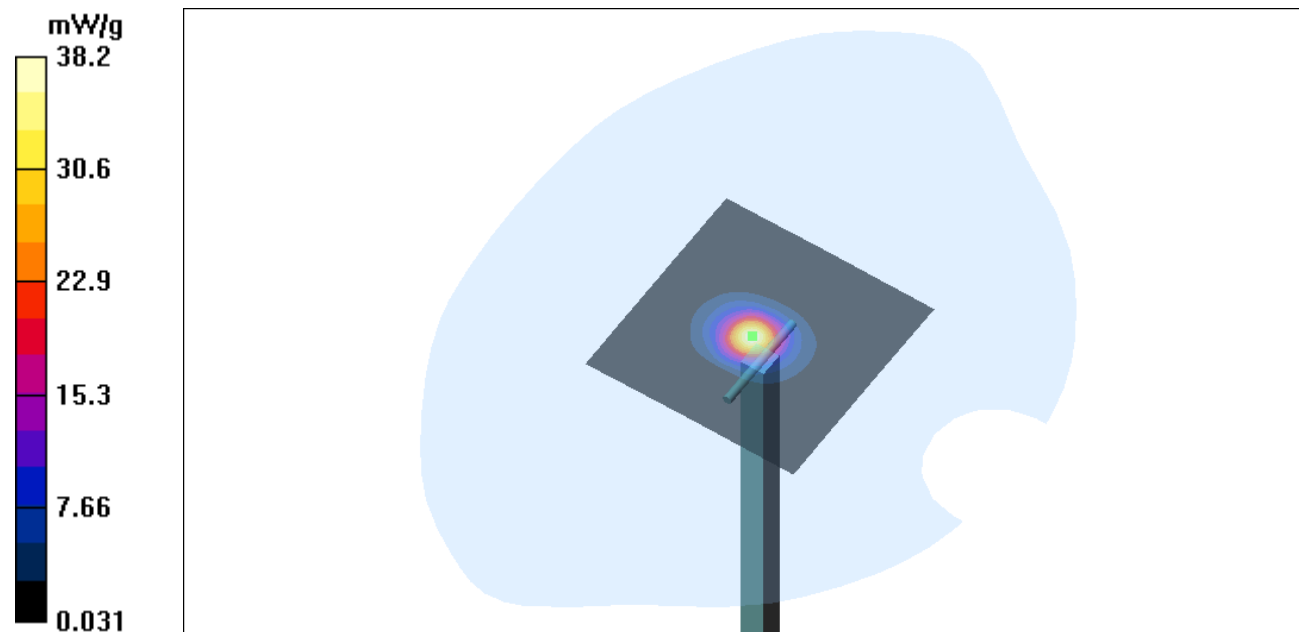
d=10mm, Pin=250mW, f=5800 MHz/Zoom Scan (3x3x2mm, graded), dist=2mm (11x11x6)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 71.1 V/m; Power Drift = 0.051 dB

Peak SAR (extrapolated) = 81.5 W/kg

SAR(1 g) = 18.7 mW/g; SAR(10 g) = 5.97 mW/g

Maximum value of SAR (measured) = 38.2 mW/g



5200MHz Head Validation

Date/Time: 7/15/2010 8:18:04 AM

DUT: Dipole 5000 MHz; Type: D5500V2

Communication System: CW; ; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Head Medium parameters used: $f = 5200$ MHz; $\sigma = 4.81$ mho/m; $\epsilon_r = 34.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(4.65, 4.65, 4.65); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

d=10mm, Pin=250mW, f=5200 MHz/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 38.7 mW/g

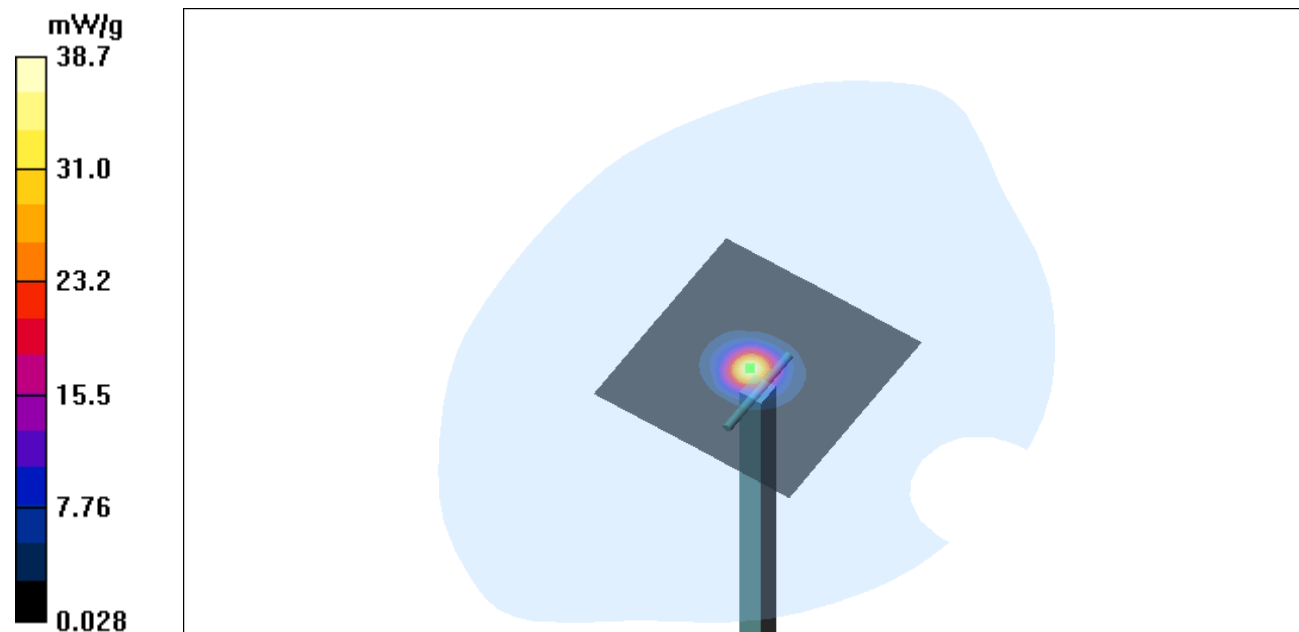
d=10mm, Pin=250mW, f=5200 MHz/Zoom Scan (3x3x2mm, graded), dist=2mm (11x11x6)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 77.4 V/m; Power Drift = -0.151 dB

Peak SAR (extrapolated) = 75.7 W/kg

SAR(1 g) = 19.1 mW/g; SAR(10 g) = 5.96 mW/g

Maximum value of SAR (measured) = 38.7 mW/g



5500MHz Head Validation

Date/Time: 7/15/2010 8:59:27 AM

DUT: Dipole 5000 MHz; Type: D5500V2

Communication System: CW; ; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Head Medium parameters used: $f = 5500$ MHz; $\sigma = 5.13$ mho/m; $\epsilon_r = 34.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(4.3, 4.3, 4.3); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

d=10mm, Pin=250mW, f=5500 MHz/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 40.6 mW/g

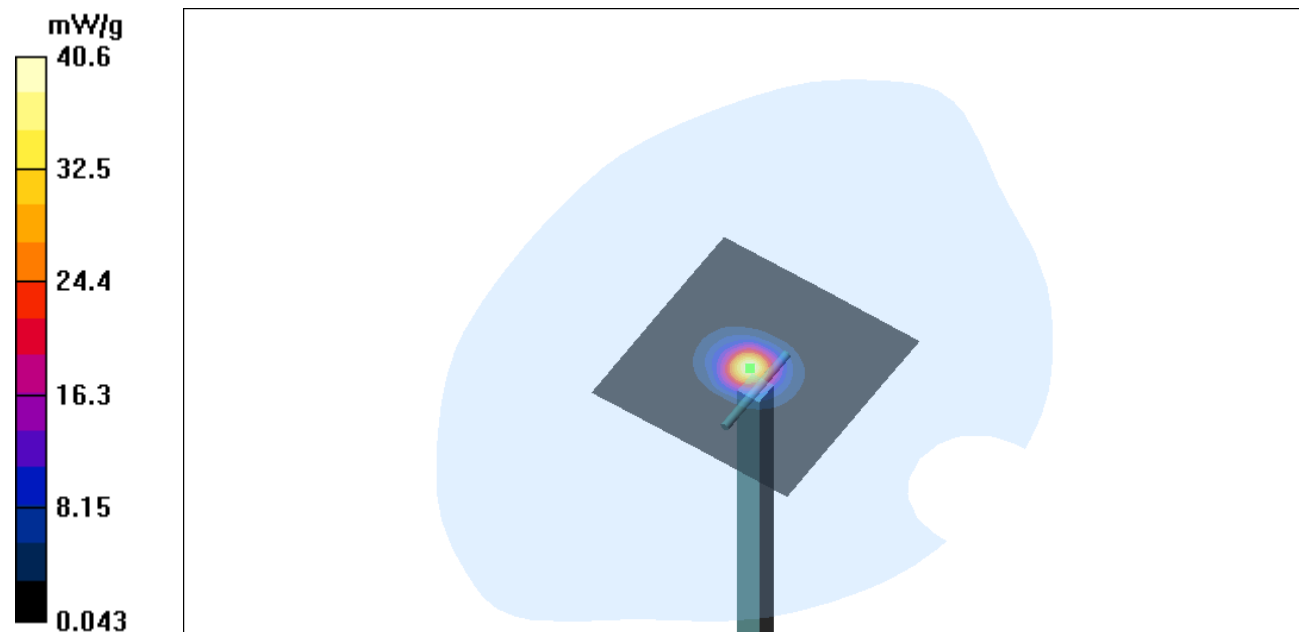
d=10mm, Pin=250mW, f=5500 MHz/Zoom Scan (3x3x2mm, graded), dist=2mm (11x11x6)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 74.2 V/m; Power Drift = 0.004 dB

Peak SAR (extrapolated) = 79.5 W/kg

SAR(1 g) = 19.6 mW/g; SAR(10 g) = 6.21 mW/g

Maximum value of SAR (measured) = 38.9 mW/g



5800MHz Head Validation

Date/Time: 7/15/2010 9:41:59 AM

DUT: Dipole 5000 MHz; Type: D5500V2

Communication System: CW; ; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Head Medium parameters used: $f = 5800$ MHz; $\sigma = 5.49$ mho/m; $\epsilon_r = 33.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(4.09, 4.09, 4.09); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

d=10mm, Pin=250mW, f=5800 MHz/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 38.2 mW/g

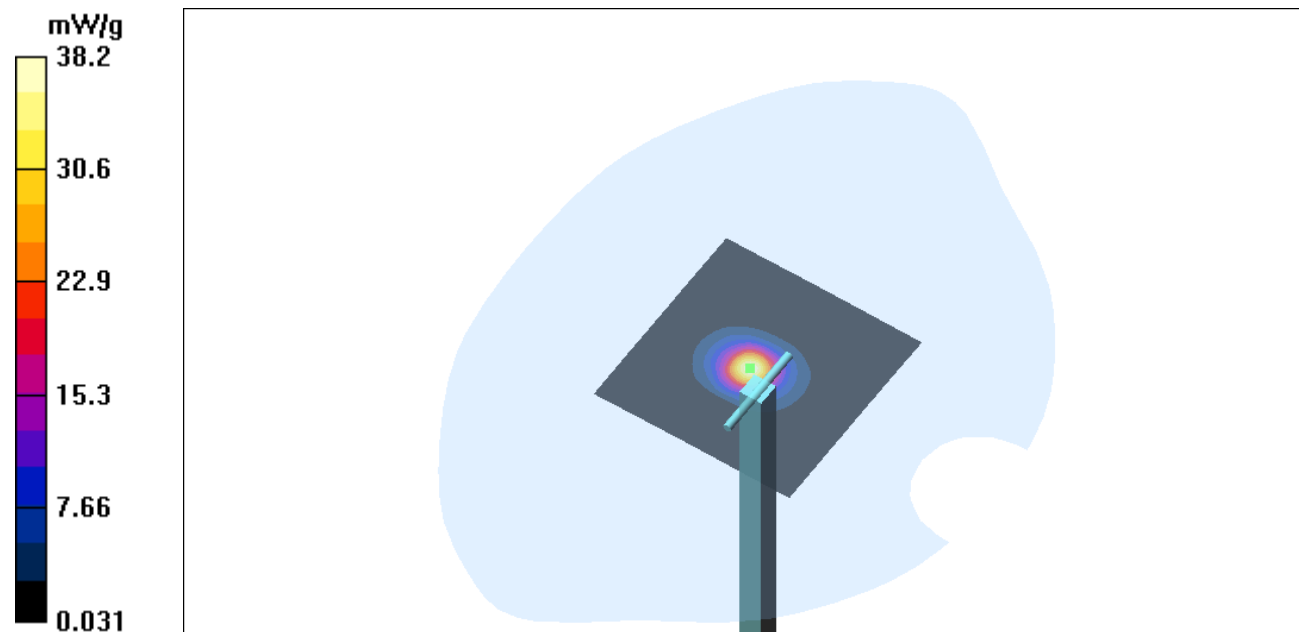
d=10mm, Pin=250mW, f=5800 MHz/Zoom Scan (3x3x2mm, graded), dist=2mm (11x11x6)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 71.1 V/m; Power Drift = 0.051 dB

Peak SAR (extrapolated) = 81.3 W/kg

SAR(1 g) = 18.7 mW/g; SAR(10 g) = 5.96 mW/g

Maximum value of SAR (measured) = 38.1 mW/g



5200MHz Body Validation

Date/Time: 7/09/2010 8:03:47 AM

DUT: Dipole 5500 MHz; Type: D5500V2

Communication System: CW; ; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Body Medium parameters used: $f = 5200$ MHz; $\sigma = 5.37$ mho/m; $\epsilon_r = 46.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(4.07, 4.07, 4.07); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

d=10mm, Pin=250mW, f=5200 MHz/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 36.8 mW/g

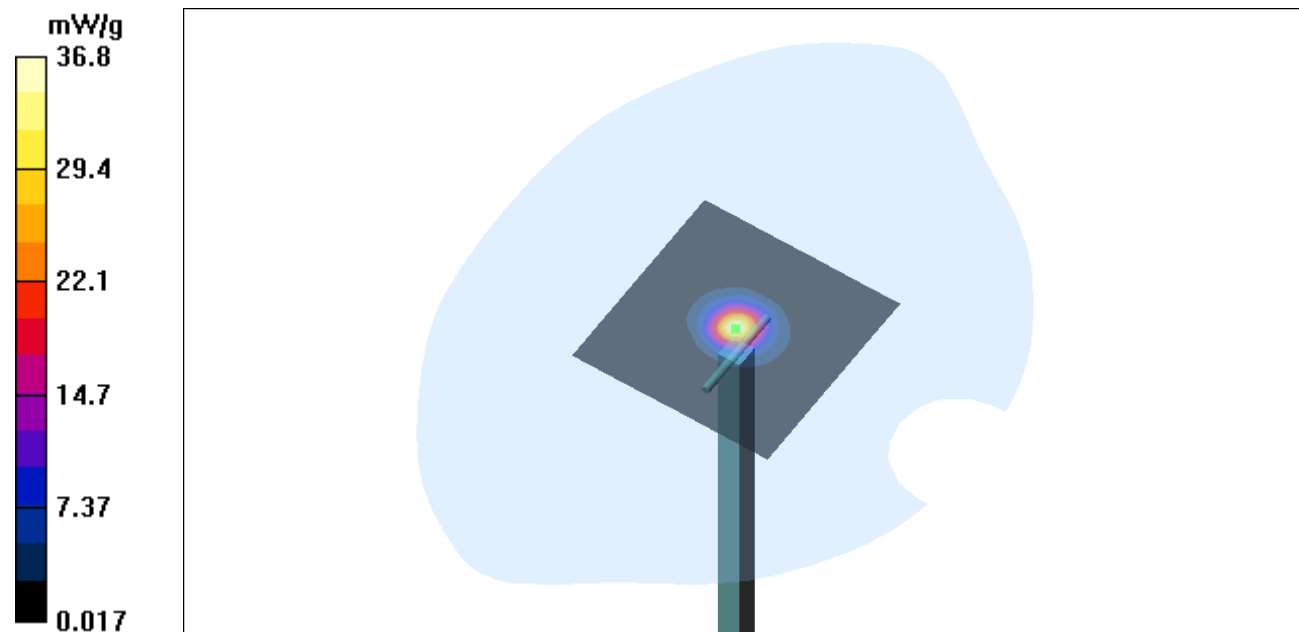
d=10mm, Pin=250mW, f=5200 MHz/Zoom Scan (3x3x2mm, graded), dist=2mm (11x11x6)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 75.7 V/m; Power Drift = -0.084 dB

Peak SAR (extrapolated) = 65.0 W/kg

SAR(1 g) = 18.2 mW/g; SAR(10 g) = 5.69 mW/g

Maximum value of SAR (measured) = 36.2 mW/g



5500MHz Body Validation

Date/Time: 7/09/2010 8:51:59 AM

DUT: Dipole 5500 MHz; Type: D5500V2

Communication System: CW; ; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Body Medium parameters used: $f = 5500$ MHz; $\sigma = 5.79$ mho/m; $\epsilon_r = 46.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(3.63, 3.63, 3.63); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

d=10mm, Pin=250mW, f=5500 MHz/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 38.0 mW/g

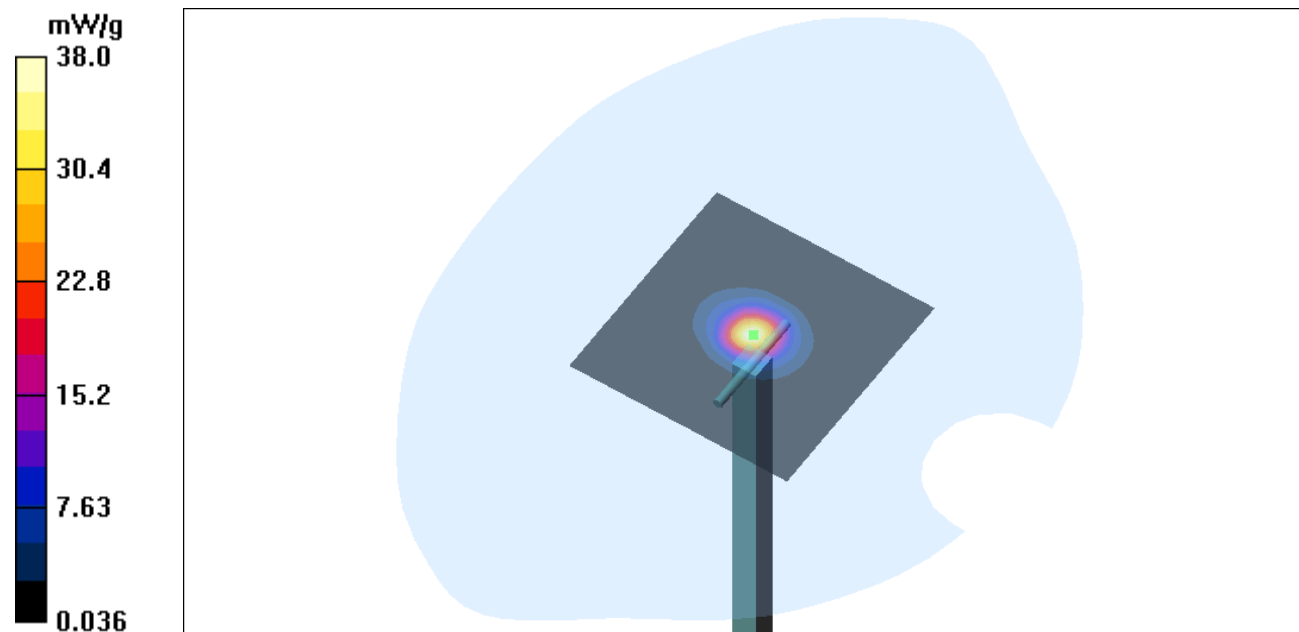
d=10mm, Pin=250mW, f=5500 MHz/Zoom Scan (3x3x2mm, graded), dist=2mm (11x11x6)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 73.1 V/m; Power Drift = -0.074 dB

Peak SAR (extrapolated) = 69.0 W/kg

SAR(1 g) = 18.5 mW/g; SAR(10 g) = 5.86 mW/g

Maximum value of SAR (measured) = 37.7 mW/g



5800MHz Body Validation

Date/Time: 7/09/2010 9:44:24 AM

DUT: Dipole 5500 MHz; Type: D5500V2

Communication System: CW; ; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Body Medium parameters used: $f = 5800$ MHz; $\sigma = 6.27$ mho/m; $\epsilon_r = 45.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(3.68, 3.68, 3.68); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

d=10mm, Pin=250mW, f=5800 MHz/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 33.7 mW/g

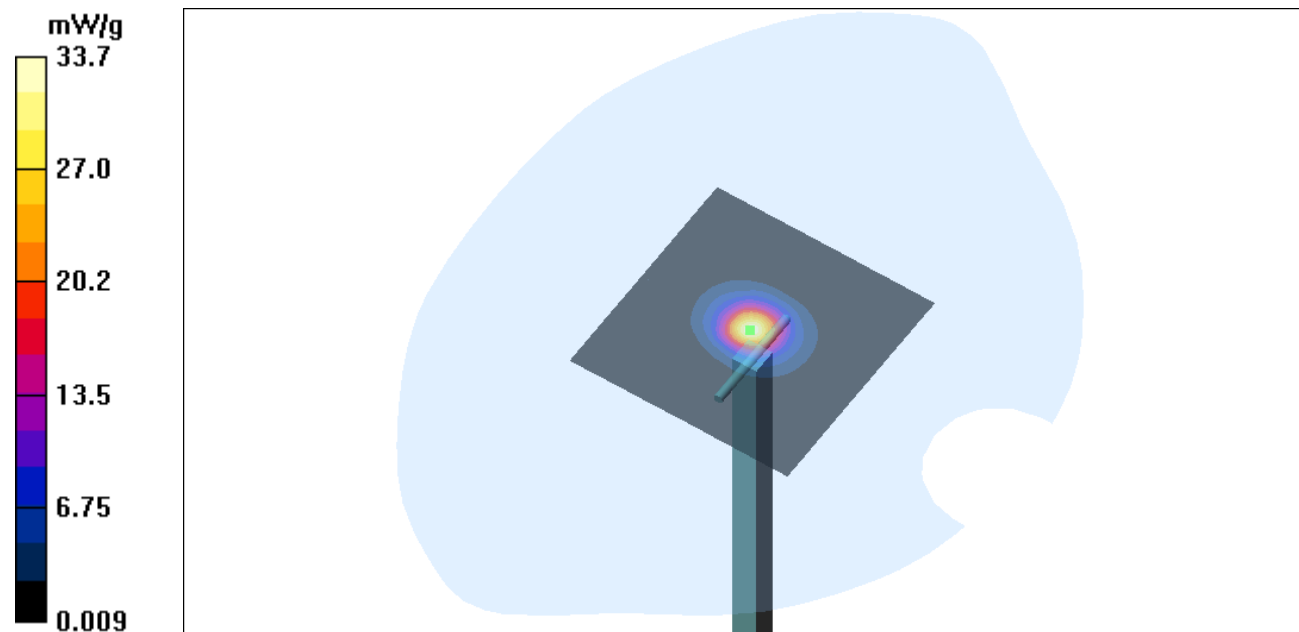
d=10mm, Pin=250mW, f=5800 MHz/Zoom Scan (3x3x2mm, graded), dist=2mm (11x11x6)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 65.0 V/m; Power Drift = -0.113 dB

Peak SAR (extrapolated) = 60.3 W/kg

SAR(1 g) = 15.9 mW/g; SAR(10 g) = 5.09 mW/g

Maximum value of SAR (measured) = 31.5 mW/g



5200MHz Body Validation

Date/Time: 7/12/2010 9:49:47 AM

DUT: Dipole 5500 MHz; Type: D5500V2

Communication System: CW; ; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Body Medium parameters used: $f = 5200$ MHz; $\sigma = 5.39$ mho/m; $\epsilon_r = 48.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(4.07, 4.07, 4.07); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

d=10mm, Pin=250mW, f=5200 MHz/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 37.0 mW/g

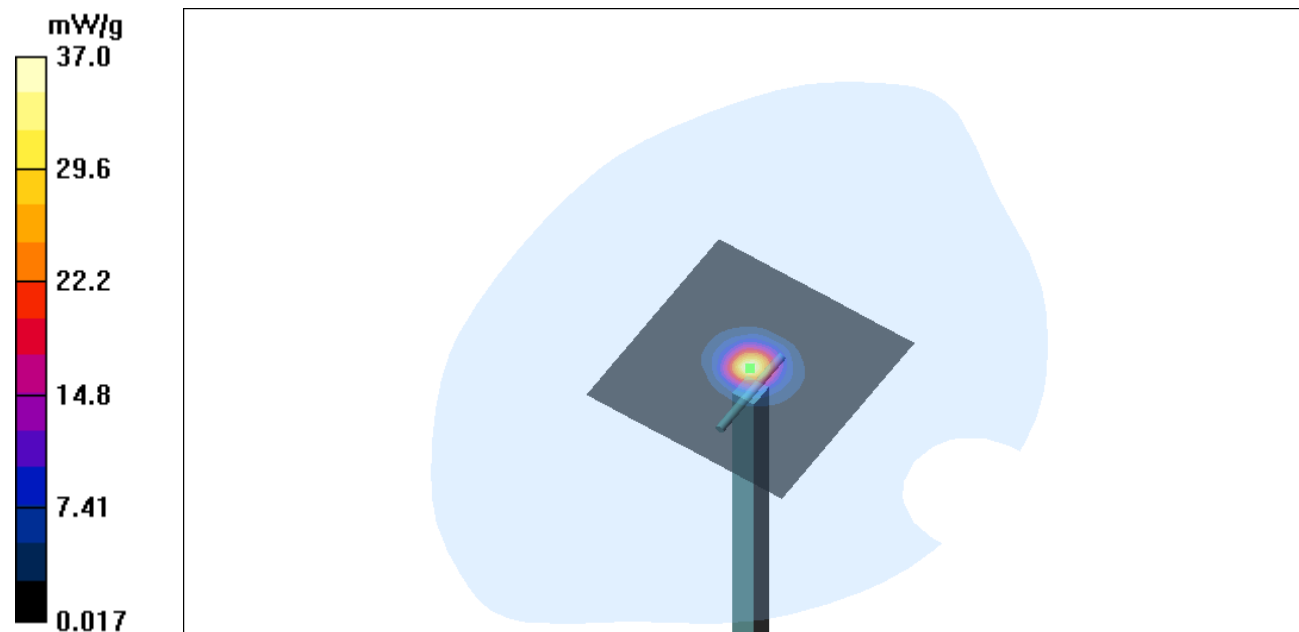
d=10mm, Pin=250mW, f=5200 MHz/Zoom Scan (3x3x2mm, graded), dist=2mm (11x11x6)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 75.7 V/m; Power Drift = -0.084 dB

Peak SAR (extrapolated) = 65.3 W/kg

SAR(1 g) = 18.3 mW/g; SAR(10 g) = 5.71 mW/g

Maximum value of SAR (measured) = 36.3 mW/g



5500MHz Body Validation

Date/Time: 7/12/2010 8:58:59 AM

DUT: Dipole 5500 MHz; Type: D5500V2

Communication System: CW; ; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Body Medium parameters used: $f = 5500$ MHz; $\sigma = 5.83$ mho/m; $\epsilon_r = 47.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(3.63, 3.63, 3.63); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

d=10mm, Pin=250mW, f=5500 MHz/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 38.3 mW/g

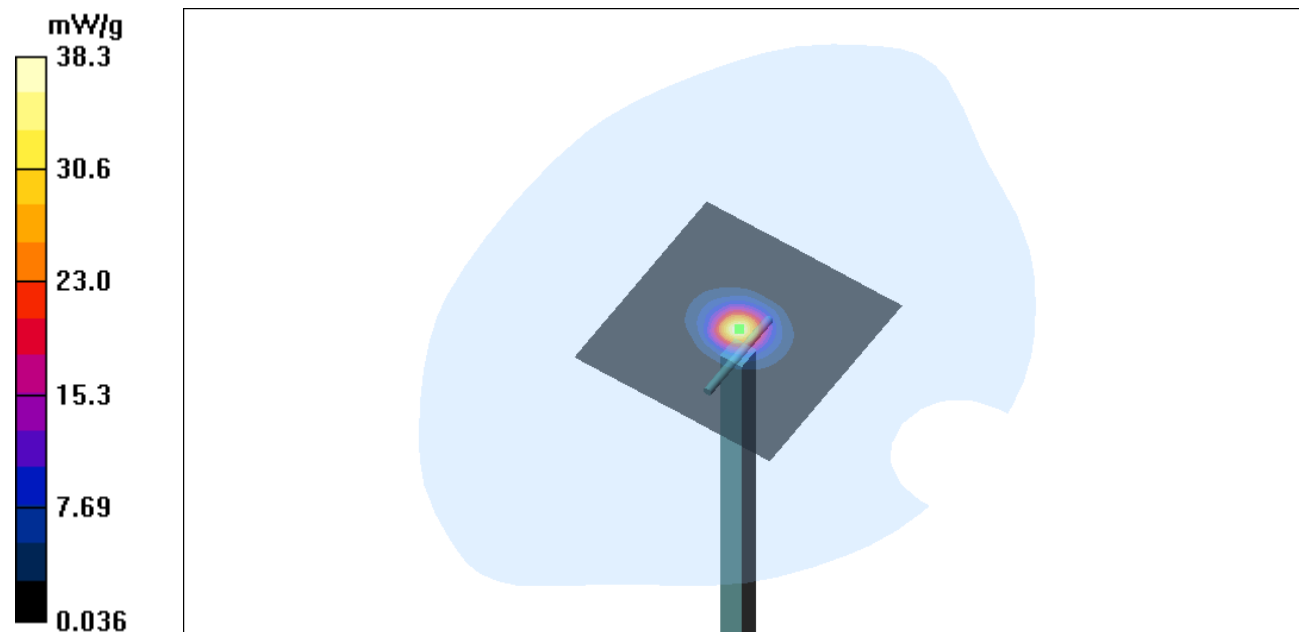
d=10mm, Pin=250mW, f=5500 MHz/Zoom Scan (3x3x2mm, graded), dist=2mm (11x11x6)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 73.1 V/m; Power Drift = -0.074 dB

Peak SAR (extrapolated) = 69.4 W/kg

SAR(1 g) = 18.6 mW/g; SAR(10 g) = 5.9 mW/g

Maximum value of SAR (measured) = 37.9 mW/g



5800MHz Body Validation

Date/Time: 7/12/2010 8:05:24 AM

DUT: Dipole 5500 MHz; Type: D5500V2

Communication System: CW; ; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Body Medium parameters used: $f = 5800$ MHz; $\sigma = 6.29$ mho/m; $\epsilon_r = 46.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(3.68, 3.68, 3.68); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

d=10mm, Pin=250mW, f=5800 MHz/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 33.9 mW/g

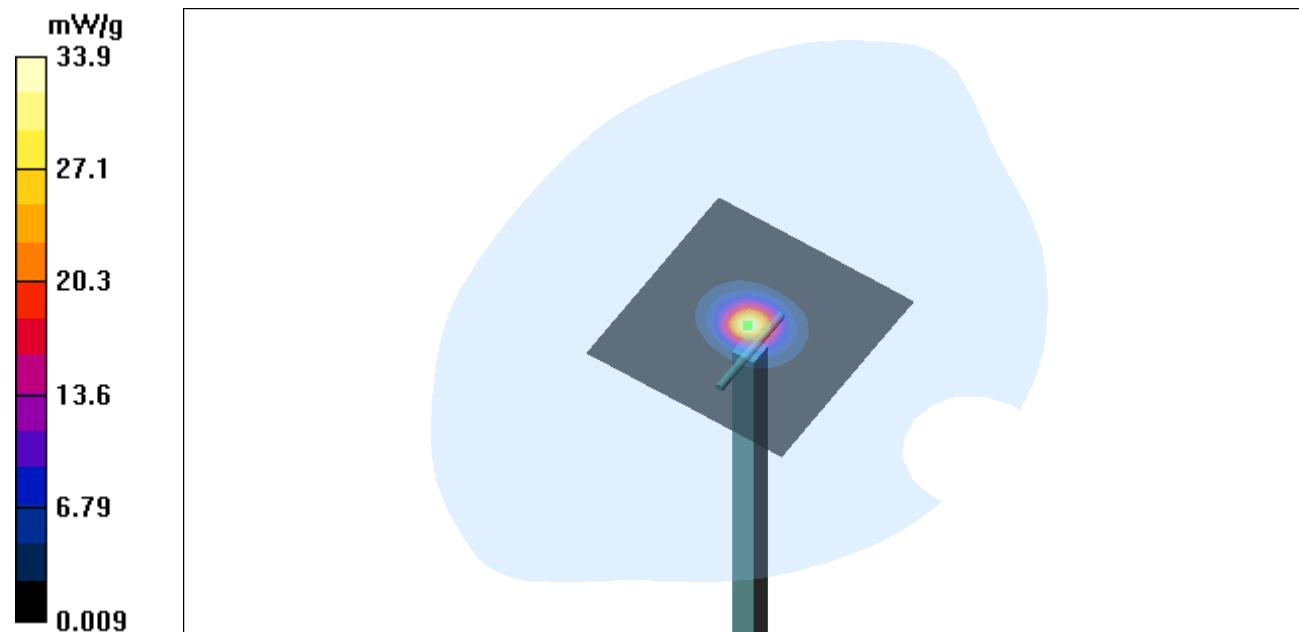
d=10mm, Pin=250mW, f=5800 MHz/Zoom Scan (3x3x2mm, graded), dist=2mm (11x11x6)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 65.0 V/m; Power Drift = -0.113 dB

Peak SAR (extrapolated) = 60.5 W/kg

SAR(1 g) = 15.9 mW/g; SAR(10 g) = 5.11 mW/g

Maximum value of SAR (measured) = 31.6 mW/g





APPENDIX C – PROBE CALIBRATION CERTIFICATE



Accredited by the Swiss Accreditation Service (SAS)

Accreditation No.: **SCS 108**

The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Client **MET Laboratories**

Certificate No: **EX3-3722_May10**

CALIBRATION CERTIFICATE

Object **EX3DV4 - SN:3722**

Calibration procedure(s) **QA CAL-01.v6, QA CAL-14.v3, QA CAL-23.v3 and QA CAL-25.v2
Calibration procedure for dosimetric E-field probes**

Calibration date: **May 19, 2010**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	1-Apr-10 (No. 217-01136)	Apr-11
Power sensor E4412A	MY41495277	1-Apr-10 (No. 217-01136)	Apr-11
Power sensor E4412A	MY41498087	1-Apr-10 (No. 217-01136)	Apr-11
Reference 3 dB Attenuator	SN: S5054 (3c)	30-Mar-10 (No. 217-01159)	Mar-11
Reference 20 dB Attenuator	SN: S5086 (20b)	30-Mar-10 (No. 217-01161)	Mar-11
Reference 30 dB Attenuator	SN: S5129 (30b)	30-Mar-10 (No. 217-01160)	Mar-11
Reference Probe ES3DV2	SN: 3013	30-Dec-09 (No. ES3-3013_Dec09)	Dec-10
DAE4	SN: 660	20-Apr-10 (No. DAE4-660_Apr10)	Apr-11
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (in house check Oct-09)	In house check: Oct-11
Network Analyzer HP 8753E	US37390585	18-Oct-01 (in house check Oct-09)	In house check: Oct10

	Name	Function	Signature
Calibrated by:	Katja Pokovic	Technical Manager	
Approved by:	Niels Kuster	Quality Manager	

Issued: May 19, 2010

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



Accredited by the Swiss Accreditation Service (SAS)

Accreditation No.: **SCS 108**

The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Glossary:

TSL	tissue simulating liquid
NORM _{x,y,z}	sensitivity in free space
ConvF	sensitivity in TSL / NORM _{x,y,z}
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C	modulation dependent linearization parameters
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
- IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005

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 with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- A_{x,y,z}; B_{x,y,z}; C_{x,y,z}; VR_{x,y,z}**: A, B, C are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- 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.

Probe EX3DV4

SN:3722

Manufactured:	August 14, 2009
Calibrated:	May 19, 2010

Calibrated for DASY/EASY Systems

(Note: non-compatible with DASY2 system!)

DASY/EASY - Parameters of Probe: EX3DV4 SN:3722**Basic Calibration Parameters**

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ($\mu\text{V}/(\text{V}/\text{m})^2$) ^A	0.54	0.52	0.58	$\pm 10.1\%$
DCP (mV) ^B	90.5	90.8	88.9	

Modulation Calibration Parameters

UID	Communication System Name	PAR		A dB	B dBuV	C	VR mV	Unc ^E (k=2)
10000	CW	0.00	X	0.00	0.00	1.00	300	$\pm 1.5\%$
			Y	0.00	0.00	1.00	300	
			Z	0.00	0.00	1.00	300	

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.

^A The uncertainties of NormX,Y,Z do not affect the E^2 -field uncertainty inside TSL (see Pages 5 and 6).

^B Numerical linearization parameter: uncertainty not required.

^E Uncertainty is determined using the maximum deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

DASY - Parameters of Probe: EX3DV4 SN:3722

Calibration Parameter Determined in Head Tissue Simulating Media

f [MHz]	Validity [MHz] ^c	Permittivity	Conductivity	ConvF X	ConvF Y	ConvF Z	Alpha	Depth Unc (k=2)
2000	± 50 / ± 100	40.0 ± 5%	1.40 ± 5%	7.10	7.10	7.10	0.64	0.68 ± 11.0%
2450	± 50 / ± 100	39.2 ± 5%	1.80 ± 5%	6.65	6.65	6.65	0.41	0.89 ± 11.0%
2600	± 50 / ± 100	39.0 ± 5%	1.96 ± 5%	6.58	6.58	6.58	0.34	1.06 ± 11.0%
5200	± 50 / ± 100	36.0 ± 5%	4.66 ± 5%	4.65	4.65	4.65	0.40	1.95 ± 13.1%
5500	± 50 / ± 100	35.6 ± 5%	4.96 ± 5%	4.30	4.30	4.30	0.40	1.95 ± 13.1%
5800	± 50 / ± 100	35.3 ± 5%	5.27 ± 5%	4.09	4.09	4.09	0.45	1.95 ± 13.1%

^c The validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2). The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

DASY - Parameters of Probe: EX3DV4 SN:3722

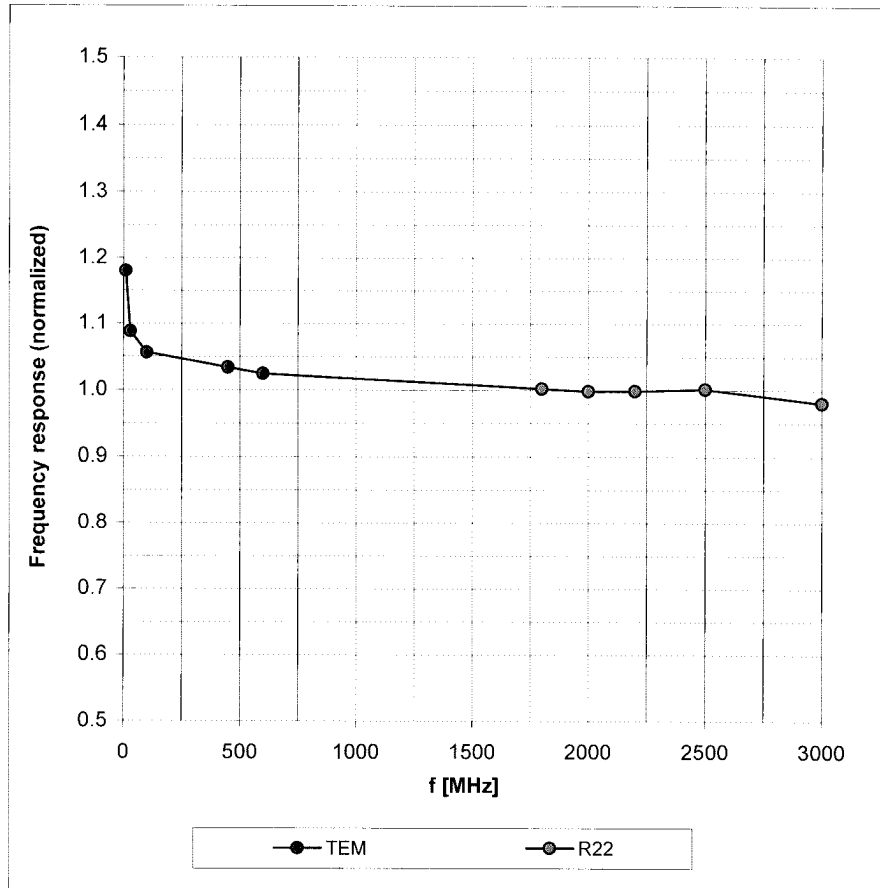
Calibration Parameter Determined in Body Tissue Simulating Media

f [MHz]	Validity [MHz] ^c	Permittivity	Conductivity	ConvF X	ConvF Y	ConvF Z	Alpha	Depth Unc (k=2)
2000	± 50 / ± 100	53.3 ± 5%	1.52 ± 5%	7.04	7.04	7.04	0.53	0.78 ± 11.0%
2450	± 50 / ± 100	52.7 ± 5%	1.95 ± 5%	6.82	6.82	6.82	0.41	0.86 ± 11.0%
2600	± 50 / ± 100	52.5 ± 5%	2.16 ± 5%	6.73	6.73	6.73	0.45	0.80 ± 11.0%
5200	± 50 / ± 100	49.0 ± 5%	5.30 ± 5%	4.07	4.07	4.07	0.50	1.95 ± 13.1%
5500	± 50 / ± 100	48.6 ± 5%	5.65 ± 5%	3.63	3.63	3.63	0.55	1.95 ± 13.1%
5800	± 50 / ± 100	48.2 ± 5%	6.00 ± 5%	3.68	3.68	3.68	0.60	1.95 ± 13.1%

^c The validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2). The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

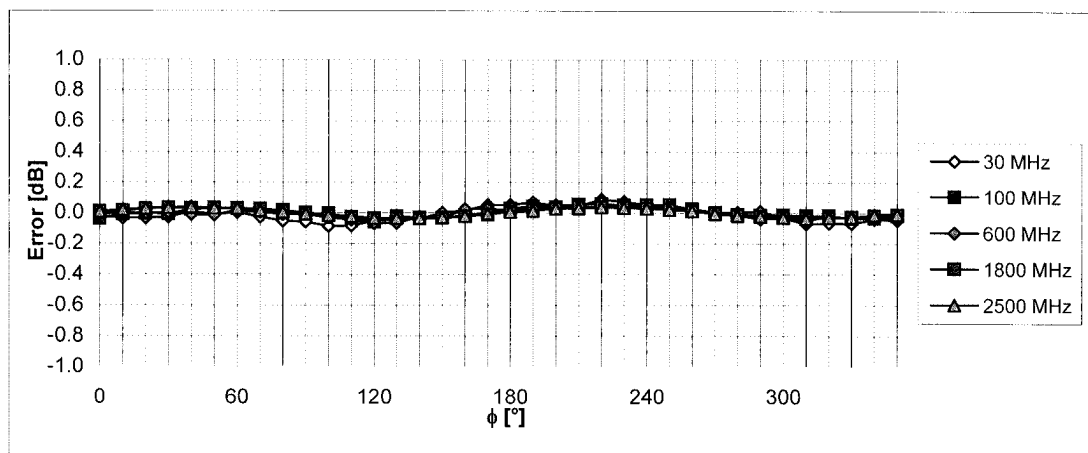
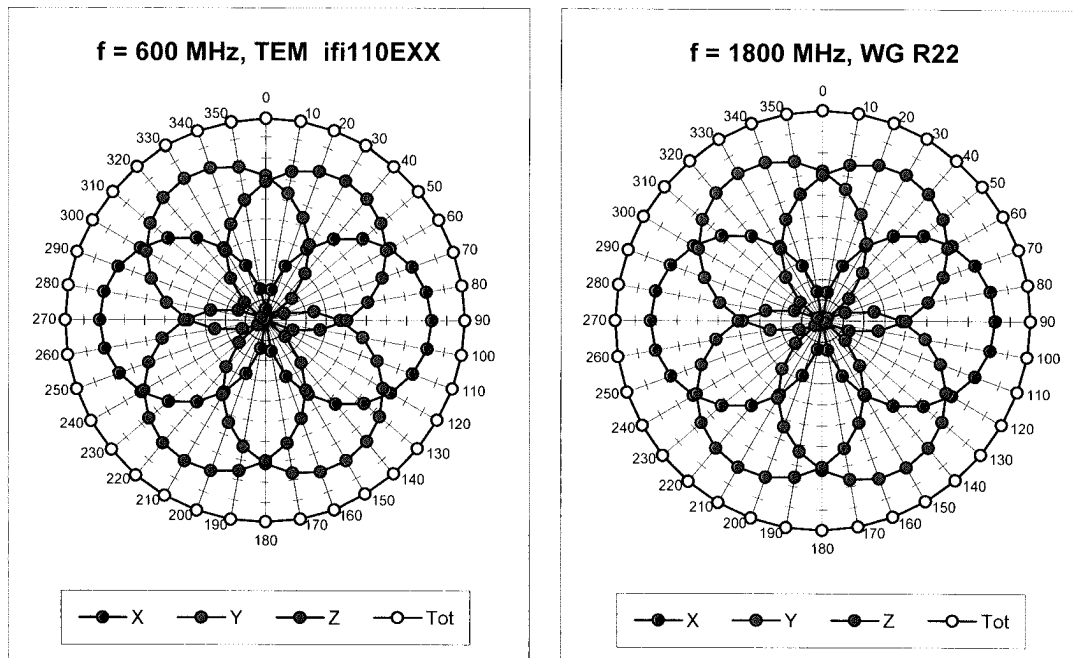
Frequency Response of E-Field

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



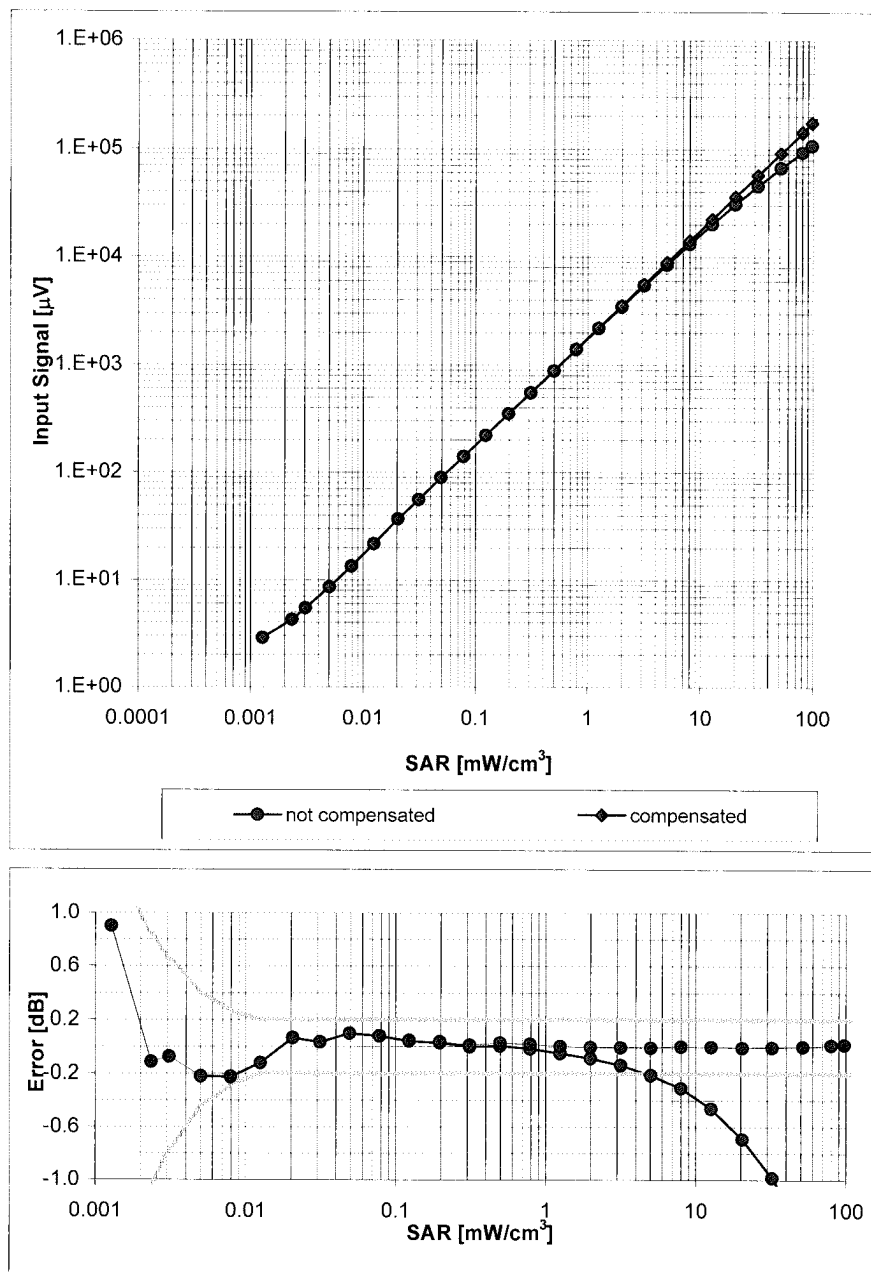
Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ ($k=2$)

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



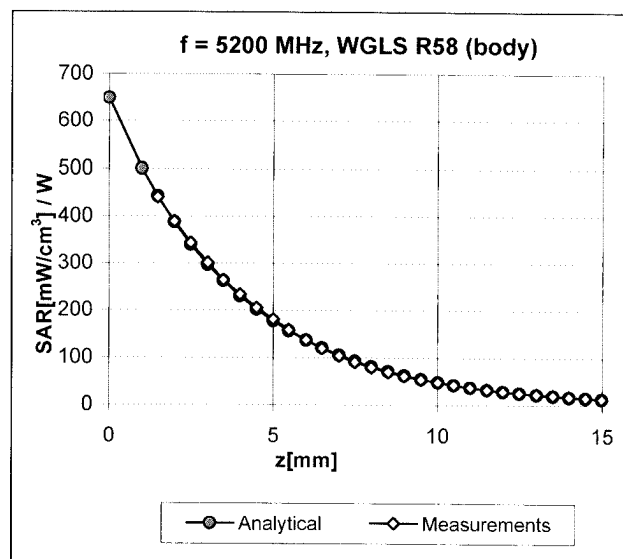
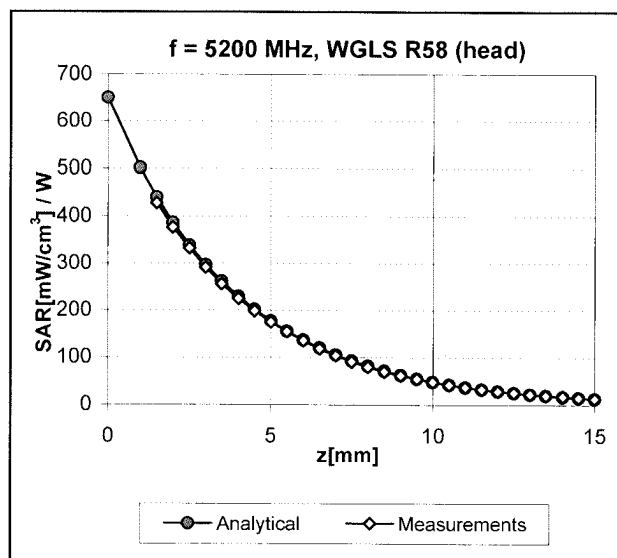
Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)

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



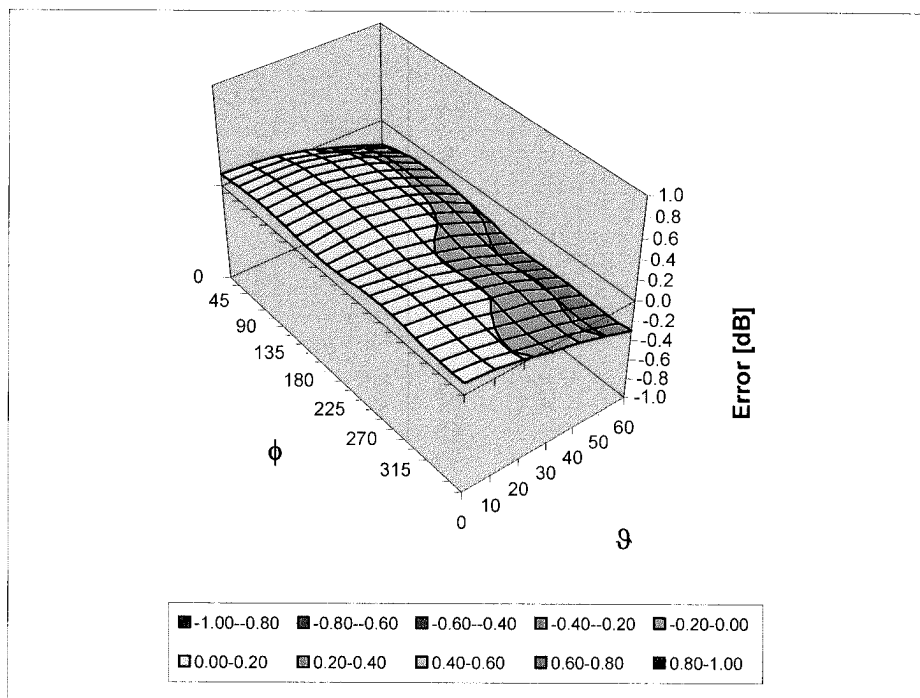
Uncertainty of Linearity Assessment: $\pm 0.6\%$ ($k=2$)

Conversion Factor Assessment



Deviation from Isotropy in HSL

Error (ϕ , ϑ), f = 900 MHz



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

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	Not applicable
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	2 mm



APPENDIX D – DIPOLE CALIBRATION CERTIFICATE

Date of Issue: May 25, 2010

Calibration procedure for validation dipole

Calibration is performed according to the following standards:

- a) IEEE Std 1528-2003, "IEEE Recommended Practice for Determining the Peak Spatial Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communication Devices: Measurement Techniques", December 2003
- b) CENELEC EN 50361, "Basic standard for the measurement of Specific Absorption Rate related to human exposure to electromagnetic fields from mobile phones (300MHz – 3GHz), July 2001
- c) Federal Communications Commission Office of Engineering & Technology (FCC OET), "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields; Additional information for Evaluating Compliance of Mobile and Portable Devices with FCC Limits for Human Exposure to Radiofrequency Emissions", Bulletin 65 Supplement C (Edition 01-01).

Additional Documents

- d) DASY4 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end of the certificate. All Figures stated in the certificate are valid at the frequency indicated.
- Antenna check: The antenna is checked for straightness using a straight edge placed parallel to the dipole arms prior to installing it against the phantom surface.
- The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Antenna flatness: The spacer thickness used for the 2450MHz dipole is 10.00mm +/- 0.2mm. To insure the antenna is within +/- 2 degrees of flatness to the phantom surface use a caliper to measure the dipole ends from the surface of the phantom.
- Vector Network Analyzer: The network analyzer is calibrated as per the user's manual.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. A Return Loss >20dB ensures low reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point. No Uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1W at the antenna connector. No Uncertainty required
- SAR for nominal head and muscle parameters: The measured TSL parameters are used to calculate the SAR results.

Measurement Conditions

DASY system configuration

DASY Version	DASY4	V4.6
Extrapolation Ad	vanced Extrapolation	
Phantom Planar	Validation Phantom	1S2450
Dipole Spacer		
Distance Dipole Center-TSL	10.00mm $\pm$ 0.2mm	With spacer
Area Scan resolution	dx, dy = 10mm	
Zoom Scan resolution	dx, dy, dz = 5mm	
Frequency	2450MHz $\pm$ 1MHz	

Measurement Uncertainty of Dipole Calibration

Error Description	Uncertainty Value $\pm\%$	Probability Distribution	Divisor	C_i 1g	Standard Uncertainty $\pm\%$ (1g)
Anritsu Power Meter ML2488A	± 1.4	normal 2		1	± 0.7
Anritsu Power Sensor	± 1.4	normal 2		1	± 0.7
HP E4418B Power Meter	± 0.2	normal 2		1	± 0.1
HP 8482A Power Sensor	± 0.8	normal 2		1	± 0.4
83650B Signal Generator	± 2.0	normal 2		1	± 1.0
HP 8722D Vector Network Analyzer	± 2.0	normal 2		1	± 1.0
Combined Standard Uncertainty					± 3.9

Head TSL Parameters

The following parameters and calculations were applied

	Temperature	Permittivity	Conductivity
Nominal Head TSL Parameters	22.0 °C 38	.80	1.89
Measured Head TSL Parameters	22.0 °C 38	.80 ±5%	1.89 ±5%

SAR results with Head TSL and system uncertainty

SAR averaged over 1 cm ³ (1g) of Head TSL	Condition	15.50 mW/g
SAR Normalized	Normalized to 1 W	62.00 mW/g
SAR for nominal Head TSL Parameters	Normalized to 1 W	62.00 ± 24.29% mW/g (k=2)

SAR averaged over 1 cm ³ (10g) of Head TSL	Condition	6.79 mW/g
SAR Normalized	Normalized to 1 W	27.16 mW/g
SAR for nominal Head TSL Parameters	Normalized to 1 W	27.16 ± 23.51% mW/g (k=2)

Muscle TSL Parameters

The following parameters and calculations were applied

	Temperature	Permittivity	Conductivity
Nominal Head TSL Parameters	22.0 °C 52	.40	2.01
Measured Head TSL Parameters	22.0 °C 52	.40 ±5%	2.01 ±5%

SAR results with Muscle TSL and system uncertainty

SAR averaged over 1 cm ³ (1g) of Head TSL	Condition	13.90 mW/g
SAR Normalized	Normalized to 1 W	55.60 mW/g
SAR for nominal Head TSL Parameters	Normalized to 1 W	55.60 ± 24.29% mW/g (k=2)

SAR averaged over 1 cm ³ (10g) of Head TSL	Condition	6.12 mW/g
SAR Normalized	Normalized to 1 W	24.48 mW/g
SAR for nominal Head TSL Parameters	Normalized to 1 W	24.48 ± 23.51% mW/g (k=2)

2450MHz Head

Date/Time: 5/25/2010 7:39:58 PM

DUT: Dipole 2450 MHz; Type: 1S2570

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

Medium: H2450 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(6.65, 6.65, 6.65); Calibrated: 5/19/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x81x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 18.1 mW/g

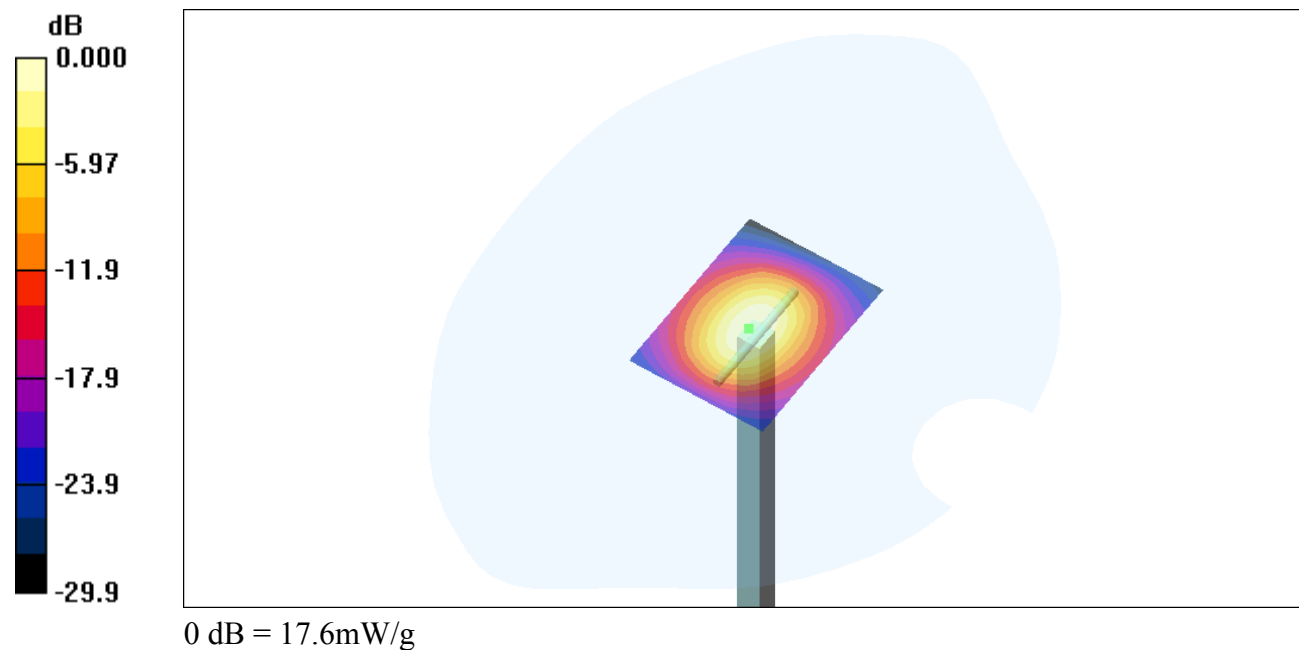
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 95.9 V/m; Power Drift = -0.023 dB

Peak SAR (extrapolated) = 35.2 W/kg

SAR(1 g) = 15.5 mW/g; SAR(10 g) = 6.79 mW/g

Maximum value of SAR (measured) = 17.6 mW/g



2450MHz Body

Date/Time: 5/25/2010 5:23:24 PM

DUT: Dipole 2450 MHz; Type: 1S2570

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

Medium: M2450 Medium parameters used: $f = 2450$ MHz; $\sigma = 2.01$ mho/m; $\epsilon_r = 52.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(6.82, 6.82, 6.82); Calibrated: 5/19/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x81x1): Measurement grid: $dx=10$ mm, $dy=10$ mm
Maximum value of SAR (interpolated) = 16.1 mW/g

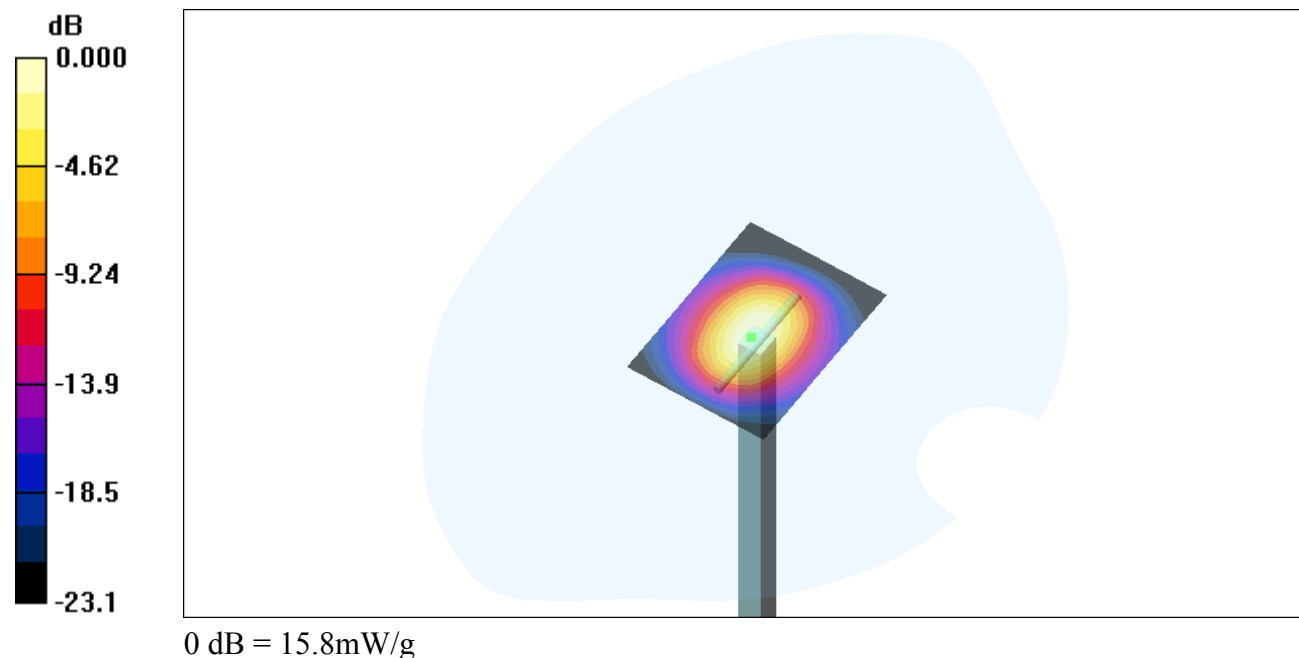
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 89.5 V/m; Power Drift = -0.122 dB

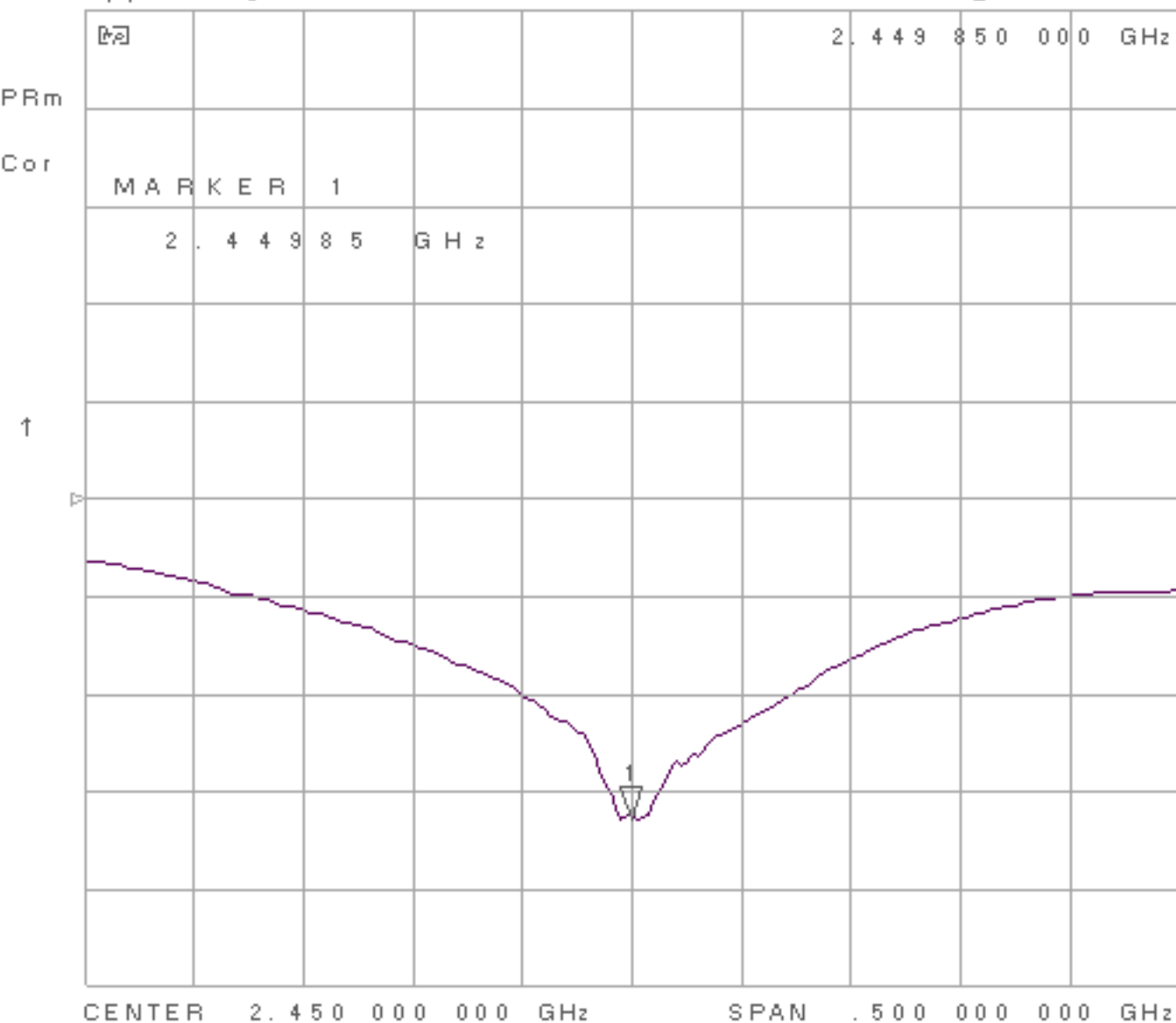
Peak SAR (extrapolated) = 30.0 W/kg

SAR(1 g) = 13.9 mW/g; SAR(10 g) = 6.12 mW/g

Maximum value of SAR (measured) = 15.8 mW/g



CH1 S 11 log MAG 10 dB/ REF 0 dB 25 May 2010 13:09:56 11 _ : -32.706 dB



CH1S 11 1 UFS 11_ 47.320 -3.7207 0 17.459 pF

2.450 000 000 GHz

PRm

Cor

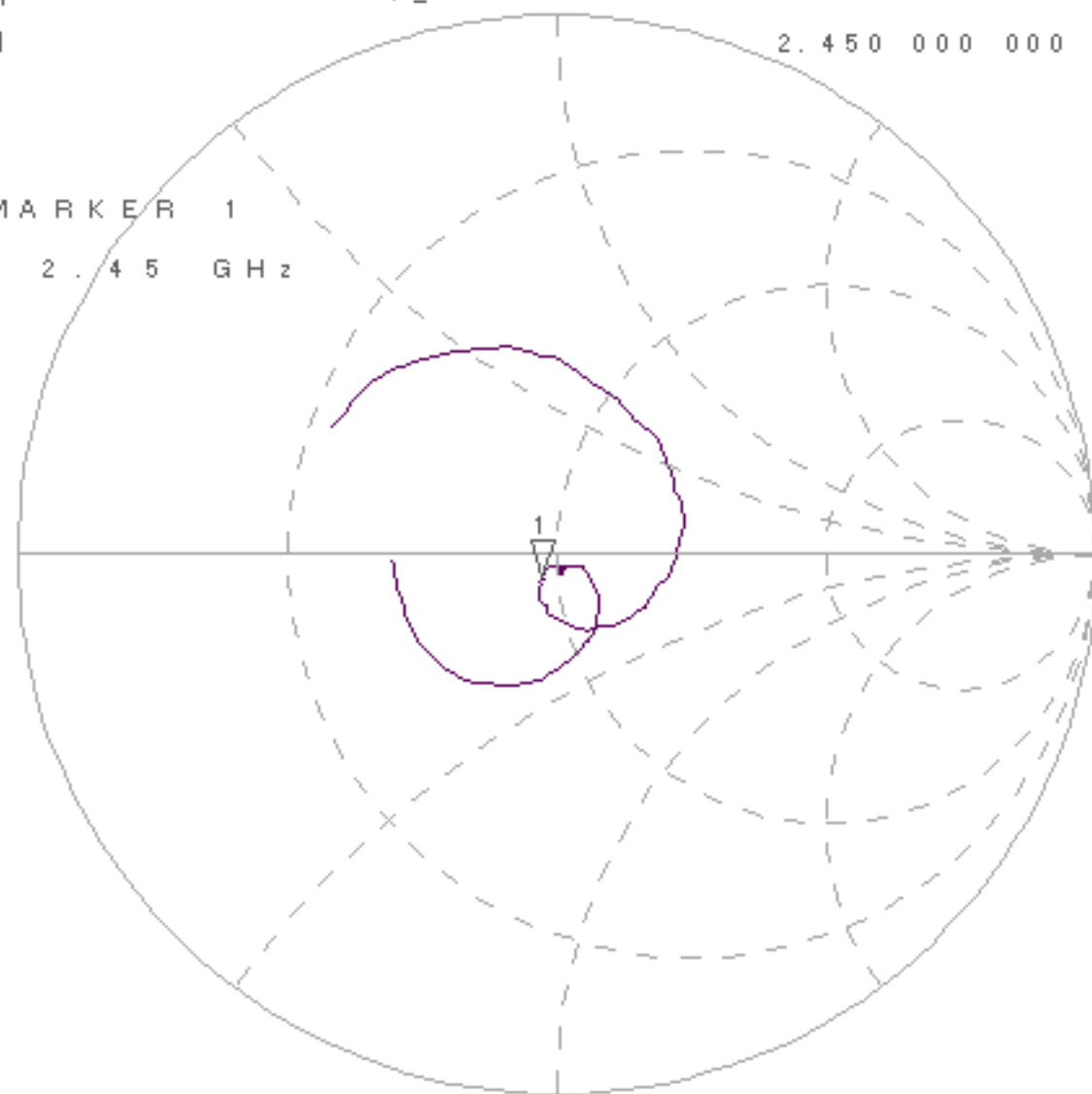
MARKER 1

2.45 GHz

↑

CENTER 2.450 000 000 GHz

SPAN .500 000 000 GHz



CALIBRATION CERTIFICATE

Object: 5000MHz Validation Dipole Asset #1S2575

Calibration Procedure: Calibration procedure for a validation dipole

Calibration Date: June 15, 2010

Condition of the Calibrated Item: In Tolerance

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in a closed laboratory facility: environment temperature $(22 \pm 3) ^\circ \text{C}$ and humidity $< 70\%$

Calibration equipment used

Model Type	Serial Number	MET Asset #	Cal Date	Due Date
Anritsu Power Meter ML2488A	6K00001832	1S2430	05-26-2009	06-26-2010
Anritsu Power Sensor	030864	1S2432	05-26-2009	06-26-2010
HP E4418B Power Meter	GB40205140	1S2276	10-09-2009	10-09-2010
HP 8482A Power Sensor	2607A11286	1S2140	05-10-2010	05-10-2011
83650B Signal Generator	3844A00910	1S2278 08	-27-2009	08-27-2010
HP 8722D Vector Network Analyzer	3S36140188 1S	2272	04-28-2010	04-28-2011

Calibrated by: Minh Ly
Name

Test Engineer
Function

Signature



This calibration certificate shall not be reproduced except in full

Date of Issue: June 15, 2010

Calibration procedure for validation dipole (5200-5500-5800MHz)

Calibration is performed according to the following standards:

- a) IEC Std 62209 Part 2, "Evaluation of Human Exposure to Radio Frequency Fields from Handheld and Body-Mounted Wireless Communication Devices in the Frequency Range of 30MHz- 6GHz: Human models, Instrumentation and Procedures" Part 2: "Procedure to determine the Specific Absorption Rate (SAR) for including accessories and multiple transmitter", Draft Version 0.9, December 2004.
- b) Federal Communications Commission Office of Engineering & Technology (FCC OET), "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields; Additional information for Evaluating Compliance of Mobile and Portable Devices with FCC Limits for Human Exposure to Radiofrequency Emissions", Bulletin 65 Supplement C (Edition 01-01).

Additional Documents

- c) DASY4 System Handbook

Methods Applied and Interpretation of Parameters:

- **Measurement Conditions:** Further details are available from the Validation Report at the end of the certificate. All Figures stated in the certificate are valid at the frequency indicated.
- **Antenna check:** The antenna is checked for straightness using a straight edge placed parallel to the dipole arms prior to installing it against the phantom surface.
- **The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.**
- **Antenna flatness:** The spacer thickness used for the 5000MHz dipole is 10.00mm +/- 0.2mm. To insure the antenna is within +/- 2 degrees of flatness to the phantom surface use a caliper to measure the dipole ends from the surface of the phantom.
- **Vector Network Analyzer:** The network analyzer is calibrated as per the user's manual.
- **Feed Point Impedance and Return Loss:** These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. A Return Loss >20dB ensures low reflected power. No uncertainty required.
- **Electrical Delay:** One-way delay between the SMA connector and the antenna feed point. No Uncertainty required.
- **SAR measured:** SAR measured at the stated antenna input power.
- **SAR normalized:** SAR as measured, normalized to an input power of 1W at the antenna connector. No Uncertainty required
- **SAR for nominal head and muscle parameters:** The measured TSL parameters are used to calculate the SAR results.

Measurement Conditions

DASY system configuration

DASY Version	DASY4	V4.6
Extrapolation Ad	vanced Extrapolation	
Phantom	Planar Validation Phantom	
Dipole Spacer		
Distance Dipole Center-TSL	10.0mm $\pm$ 0.2mm	With spacer
Area Scan resolution	dx, dy = 10mm	
Zoom Scan resolution	dx, dy, = 4.3mm, dz = 3mm	
Frequency	5200MHz $\pm$ 1MHz 5500MHz $\pm$ 1MHz 5800MHz $\pm$ 1MHz	

Head TSL Parameters @ 5200 MHz

The following parameters and calculations were applied

	Temperature	Permittivity	Conductivity
Nominal Head TSL Parameters	22.0 °C 36	.0±5%	4.66±5%
Measured Head TSL Parameters	22.0 °C 36	.71	4.83

SAR results with Head TSL @ 5200 MHz

SAR averaged over 1 cm ³ (1g) of Head TSL	Condition	19.2 mW/g
SAR Normalized	Normalized to 1 W	76.8 mW/g
SAR for nominal Head TSL Parameters	Normalized to 1 W	76.8 ± 23.32% mW/g (k=2)

SAR averaged over 1 cm ³ (10g) of Head TSL	Condition	5.99 mW/g
SAR Normalized	Normalized to 1 W	23.96 mW/g.
SAR for nominal Head TSL Parameters	Normalized to 1 W	23.96 ± 21.46% mW/g (k=2)

Head TSL Parameters @ 5500 MHz

The following parameters and calculations were applied

	Temperature	Permittivity	Conductivity
Nominal Head TSL Parameters	22.0 °C	35.6 ±5%	4.96 ±5%
Measured Head TSL Parameters	22.0 °C 35	.67	5.15

SAR results with Head TSL @ 5500 MHz

SAR averaged over 1 cm ³ (1g) of Head TSL	Condition	19.7 mW/g
SAR Normalized	Normalized to 1 W	78.8 mW/g
SAR for nominal Head TSL Parameters	Normalized to 1 W	78.8 ± 23.32% mW/g (k=2)

SAR averaged over 1 cm ³ (10g) of Head TSL	Condition	6.23 mW/g
SAR Normalized	Normalized to 1 W	24.92 mW/g
SAR for nominal Head TSL Parameters	Normalized to 1 W	24.92 ± 21.46% mW/g (k=2)

Head TSL Parameters @ 5800 MHz

The following parameters and calculations were applied

	Temperature	Permittivity	Conductivity
Nominal Head TSL Parameters	22.0 °C	35.1 ±5%	5.46 ±5%
Measured Head TSL Parameters	22.0 °C 35	.53	5.5

SAR results with Head TSL @ 5800 MHz

SAR averaged over 1 cm ³ (1g) of Head TSL	Condition	18.7 mW/g
SAR Normalized	Normalized to 1 W	74.8 mW/g
SAR for nominal Head TSL Parameters	Normalized to 1 W	74.8 ± 23.32% mW/g (k=2)

SAR averaged over 1 cm ³ (10g) of Head TSL	Condition	5.97 mW/g
SAR Normalized	Normalized to 1 W	23.88 mW/g
SAR for nominal Head TSL Parameters	Normalized to 1 W	23.88 ± 21.46% mW/g (k=2)

Body TSL Parameters @ 5200 MHz

The following parameters and calculations were applied

	Temperature	Permittivity	Conductivity
Nominal Body TSL Parameters	22.0 °C 49	.0±5%	5.30 ±5%
Measured Body TSL Parameters	22.0 °C 47	.27	5.19

SAR results with Body TSL @ 5200 MHz

SAR averaged over 1 cm ³ (1g) of Body TSL	Condition	17.6 mW/g
SAR Normalized	Normalized to 1 W	70.4 mW/g
SAR for nominal Body TSL Parameters	Normalized to 1 W	70.4 ± 23.32% mW/g (k=2)

SAR averaged over 1 cm ³ (10g) of Body TSL	Condition	5.49 mW/g
SAR Normalized	Normalized to 1 W	21.96 mW/g
SAR for nominal Body TSL Parameters	Normalized to 1 W	21.96 ± 21.46% mW/g (k=2)

Body TSL Parameters @ 5500 MHz

The following parameters and calculations were applied

	Temperature	Permittivity	Conductivity
Nominal Body TSL Parameters	22.0 °C	48.6 ±5%	5.65 ±5%
Measured Body TSL Parameters	22.0 °C 46	.79	5.57

SAR results with Body TSL @ 5500 MHz

SAR averaged over 1 cm ³ (1g) of Body TSL	Condition	17.8 mW/g
SAR Normalized	Normalized to 1 W	71.2 mW/g
SAR for nominal Body TSL Parameters	Normalized to 1 W	71.2 ± 23.32% mW/g (k=2)

SAR averaged over 1 cm ³ (10g) of Body TSL	Condition	5.64 mW/g
SAR Normalized	Normalized to 1 W	22.56 mW/g
SAR for nominal Body TSL Parameters	Normalized to 1 W	22.56 ± 21.46% mW/g (k=2)

Body TSL Parameters @ 5800 MHz

The following parameters and calculations were applied

	Temperature	Permittivity	Conductivity
Nominal Body TSL Parameters	22.0 °C	48.2 ±5%	6.00 ±5%
Measured Body TSL Parameters	22.0 °C 46	.11	6.01

SAR results with Body TSL @ 5800 MHz

SAR averaged over 1 cm ³ (1g) of Body TSL	Condition	15.2 mW/g
SAR Normalized	Normalized to 1 W	60.8 mW/g
SAR for nominal Body TSL Parameters	Normalized to 1 W	60.8 ± 23.32% mW/g (k=2)

SAR averaged over 1 cm ³ (10g) of Body TSL	Condition	4.88 mW/g
SAR Normalized	Normalized to 1 W	19.52 mW/g
SAR for nominal Body TSL Parameters	Normalized to 1 W	19.52 ± 21.46% mW/g (k=2)

5200 MHz Head

Date/Time: 6/15/2010 8:18:04 AM

DUT: Dipole 5000 MHz; Type: D5500V2

Communication System: CW; ; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Head Medium parameters used: $f = 5200$ MHz; $\sigma = 4.83$ mho/m; $\epsilon_r = 36.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(4.65, 4.65, 4.65); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

d=10mm, Pin=250mW, f=5200 MHz/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 38.9 mW/g

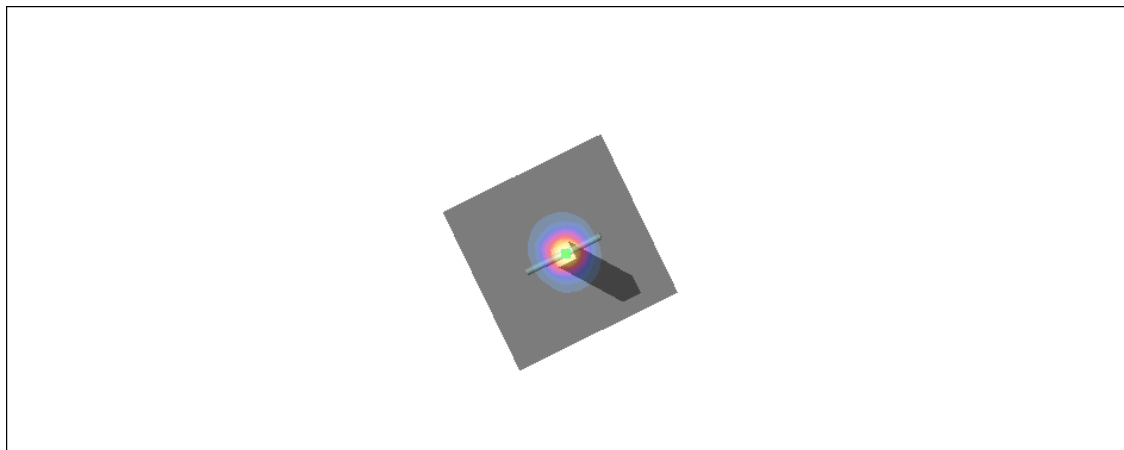
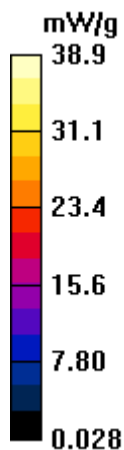
d=10mm, Pin=250mW, f=5200 MHz/Zoom Scan (3x3x2mm, graded), dist=2mm (11x11x6)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 77.4 V/m; Power Drift = -0.151 dB

Peak SAR (extrapolated) = 76.0 W/kg

SAR(1 g) = 19.2 mW/g; SAR(10 g) = 5.99 mW/g

Maximum value of SAR (measured) = 38.9 mW/g



5500MHz Head

Date/Time: 6/15/2010 9:59:27 AM

DUT: Dipole 5000 MHz; Type: D5500V2

Communication System: CW; ; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Head Medium parameters used: $f = 5500$ MHz; $\sigma = 5.15$ mho/m; $\epsilon_r = 35.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(4.3, 4.3, 4.3); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

d=10mm, Pin=250mW, f=5500 MHz/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 40.8 mW/g

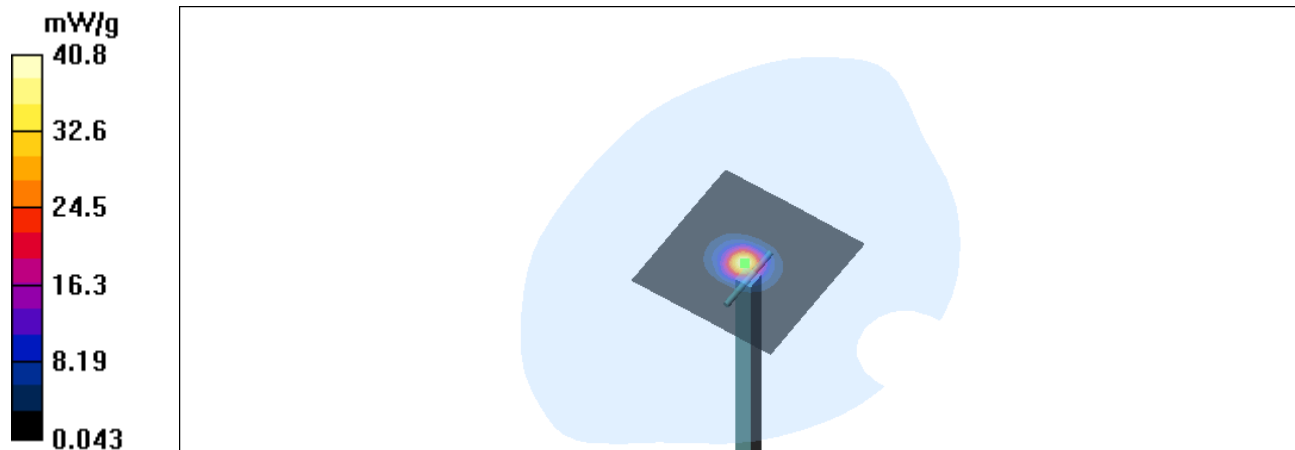
d=10mm, Pin=250mW, f=5500 MHz/Zoom Scan (3x3x2mm, graded), dist=2mm (11x11x6)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 74.2 V/m; Power Drift = 0.004 dB

Peak SAR (extrapolated) = 79.7 W/kg

SAR(1 g) = 19.7 mW/g; SAR(10 g) = 6.23 mW/g

Maximum value of SAR (measured) = 39.1 mW/g



5800MHz Head

Date/Time: 6/15/2010 10:41:59 AM

DUT: Dipole 5000 MHz; Type: D5500V2

Communication System: CW; ; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Head Medium parameters used: $f = 5800$ MHz; $\sigma = 5.5$ mho/m; $\epsilon_r = 35.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(4.09, 4.09, 4.09); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

d=10mm, Pin=250mW, f=5800 MHz/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 38.3 mW/g

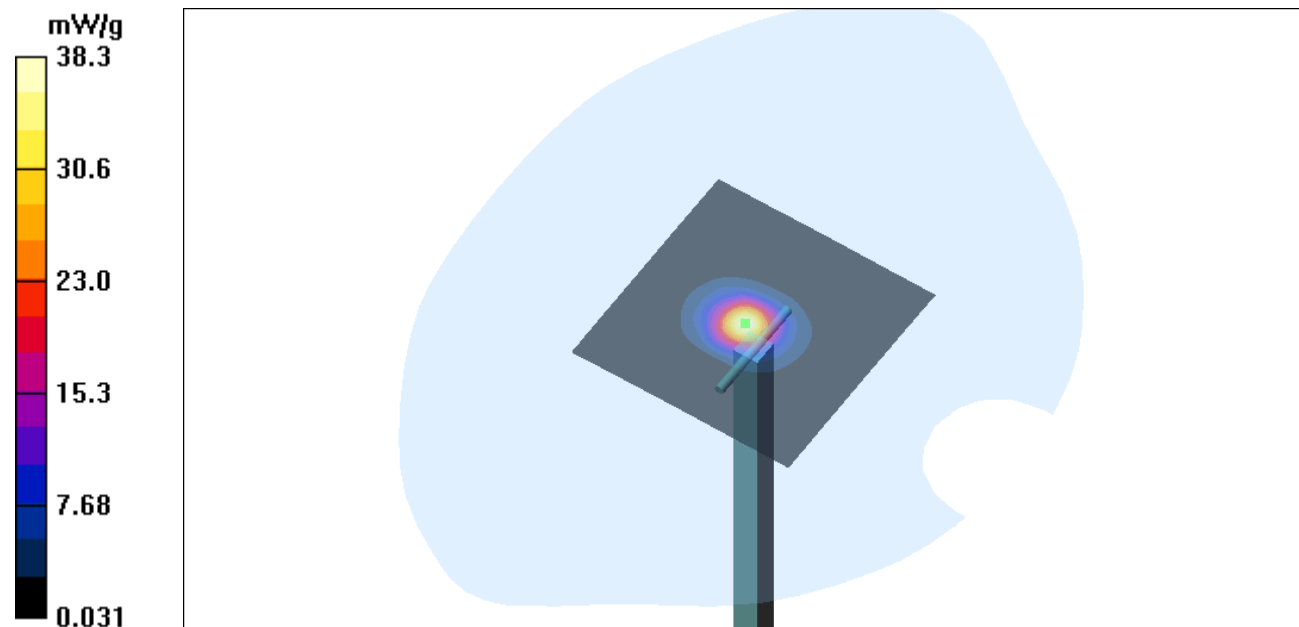
d=10mm, Pin=250mW, f=5800 MHz/Zoom Scan (3x3x2mm, graded), dist=2mm (11x11x6)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 71.1 V/m; Power Drift = 0.051 dB

Peak SAR (extrapolated) = 81.3 W/kg

SAR(1 g) = 18.7 mW/g; SAR(10 g) = 5.97 mW/g

Maximum value of SAR (measured) = 38.2 mW/g



5200MHz Body

Date/Time: 6/15/2010 12:43:47 PM

DUT: Dipole 5500 MHz; Type: D5500V2

Communication System: CW; ; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Body Medium parameters used: $f = 5200$ MHz; $\sigma = 5.19$ mho/m; $\epsilon_r = 47.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(4.07, 4.07, 4.07); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

d=10mm, Pin=250mW, f=5200 MHz/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 35.7 mW/g

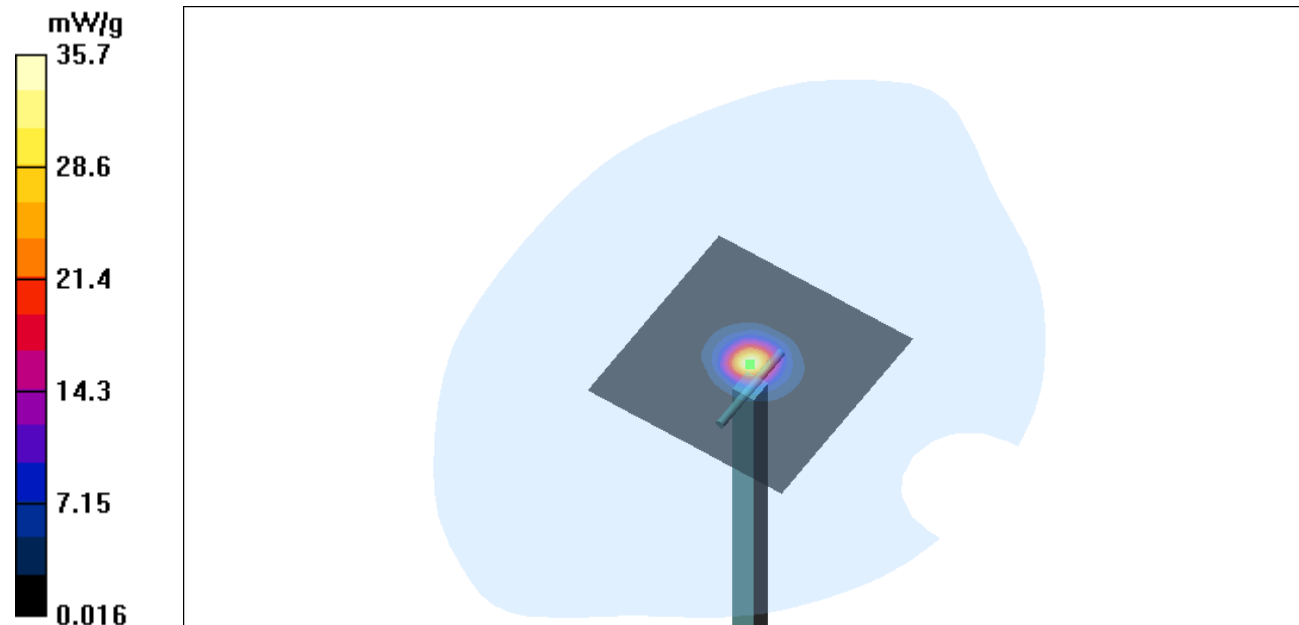
d=10mm, Pin=250mW, f=5200 MHz/Zoom Scan (3x3x2mm, graded), dist=2mm (11x11x6)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 75.7 V/m; Power Drift = -0.084 dB

Peak SAR (extrapolated) = 62.7 W/kg

SAR(1 g) = 17.6 mW/g; SAR(10 g) = 5.49 mW/g

Maximum value of SAR (measured) = 35.0 mW/g



5500MHz Body

Date/Time: 6/15/2010 1:51:59 PM

DUT: Dipole 5500 MHz; Type: D5500V2

Communication System: CW; ; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Body Medium parameters used: $f = 5500$ MHz; $\sigma = 5.57$ mho/m; $\epsilon_r = 46.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(3.63, 3.63, 3.63); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

d=10mm, Pin=250mW, f=5500 MHz/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 36.6 mW/g

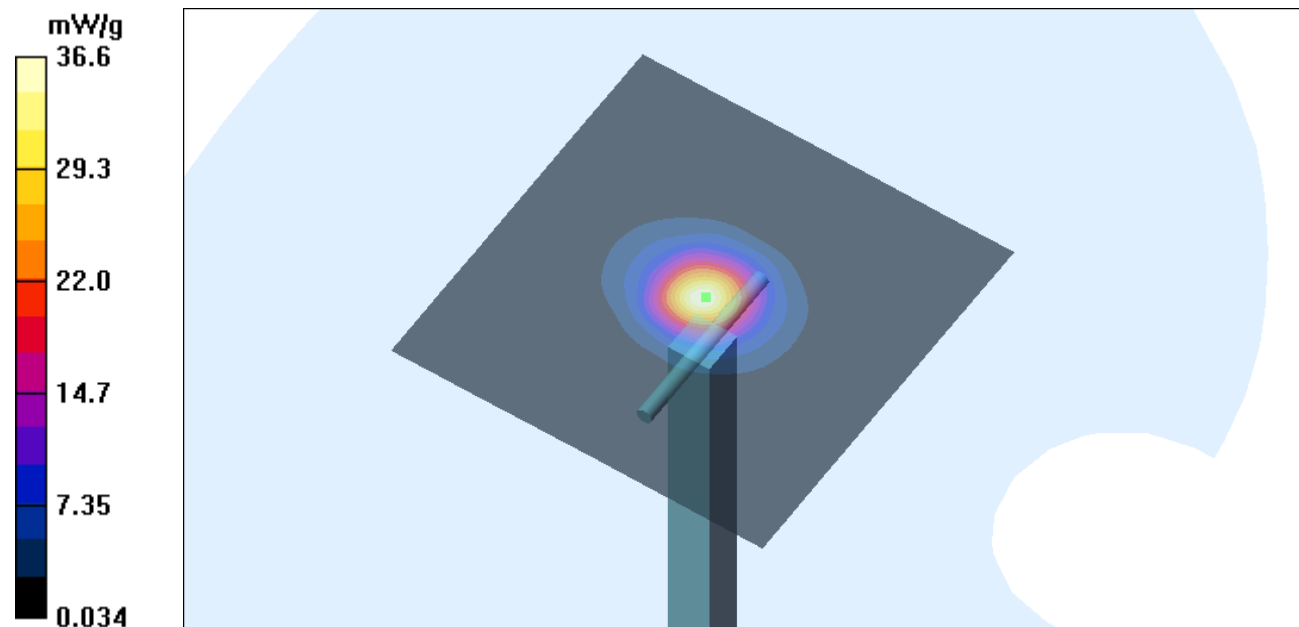
d=10mm, Pin=250mW, f=5500 MHz/Zoom Scan (3x3x2mm, graded), dist=2mm (11x11x6)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 73.1 V/m; Power Drift = -0.074 dB

Peak SAR (extrapolated) = 66.2 W/kg

SAR(1 g) = 17.8 mW/g; SAR(10 g) = 5.64 mW/g

Maximum value of SAR (measured) = 36.3 mW/g



5800MHz Body

Date/Time: 6/15/2010 3:44:24 PM

DUT: Dipole 5500 MHz; Type: D5500V2

Communication System: CW; ; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: 5200-5500-5800 MHz Body Medium parameters used: $f = 5800$ MHz; $\sigma = 6.01$ mho/m; $\epsilon_r = 46.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

- Probe: EX3DV4 - SN3722; ConvF(3.68, 3.68, 3.68); Calibrated: 5/19/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn584; Calibrated: 4/26/2010
- Phantom: SAM with CRP; Type: SAM; Serial: TP 1310
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

d=10mm, Pin=250mW, f=5800 MHz/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 32.4 mW/g

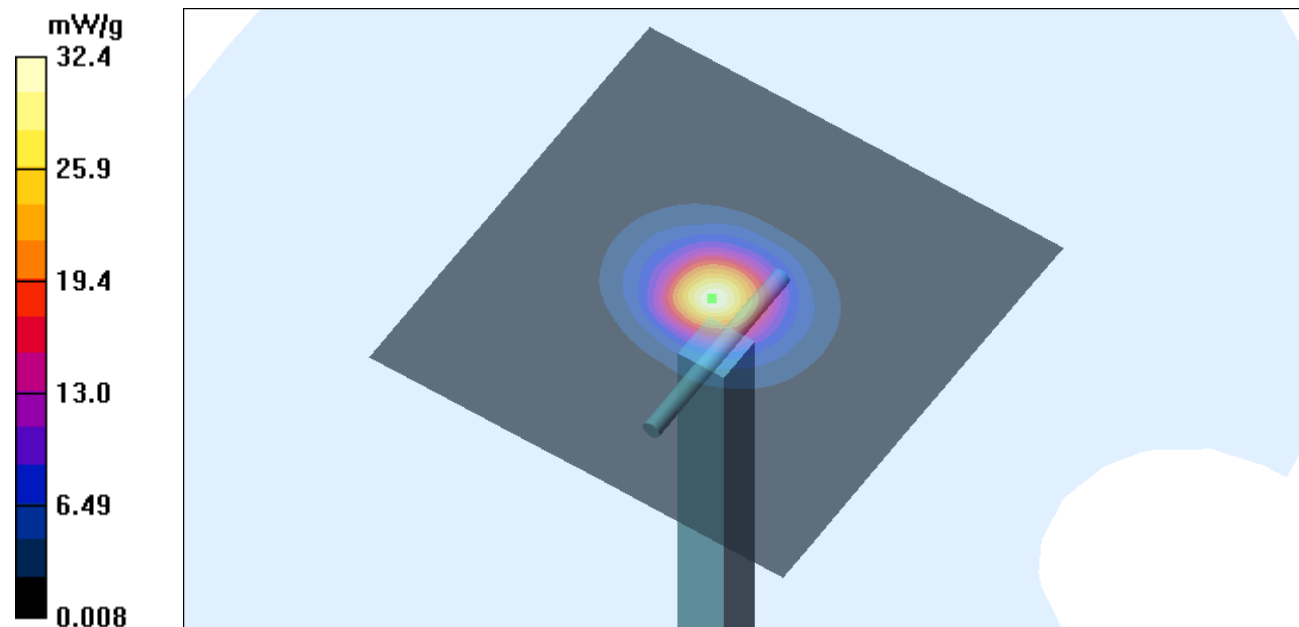
d=10mm, Pin=250mW, f=5800 MHz/Zoom Scan (3x3x2mm, graded), dist=2mm (11x11x6)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=2mm

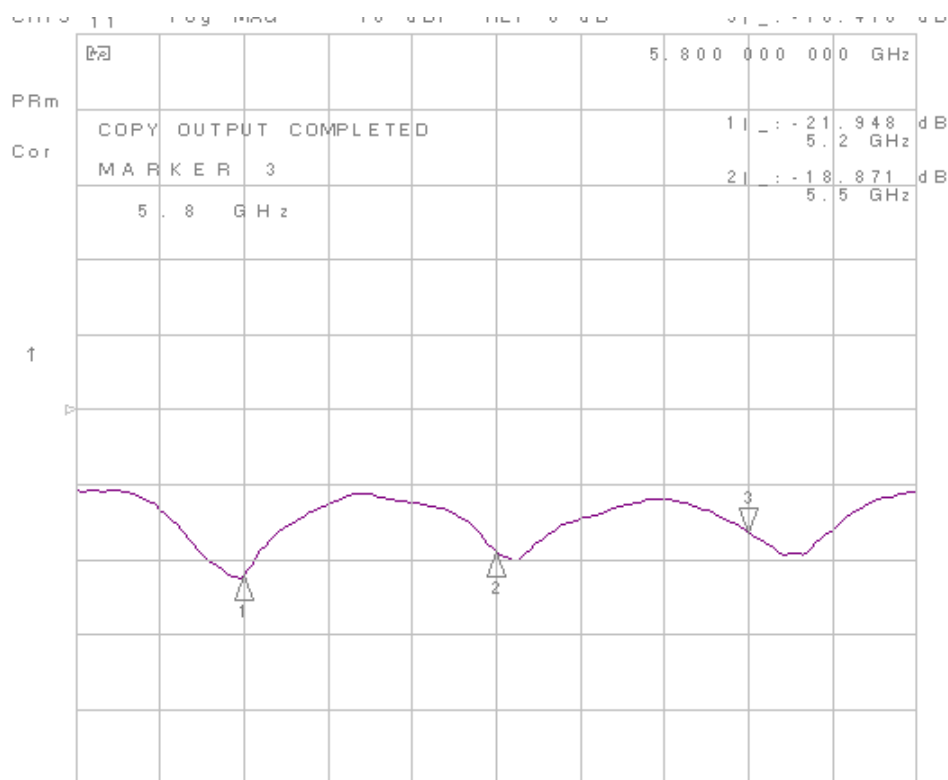
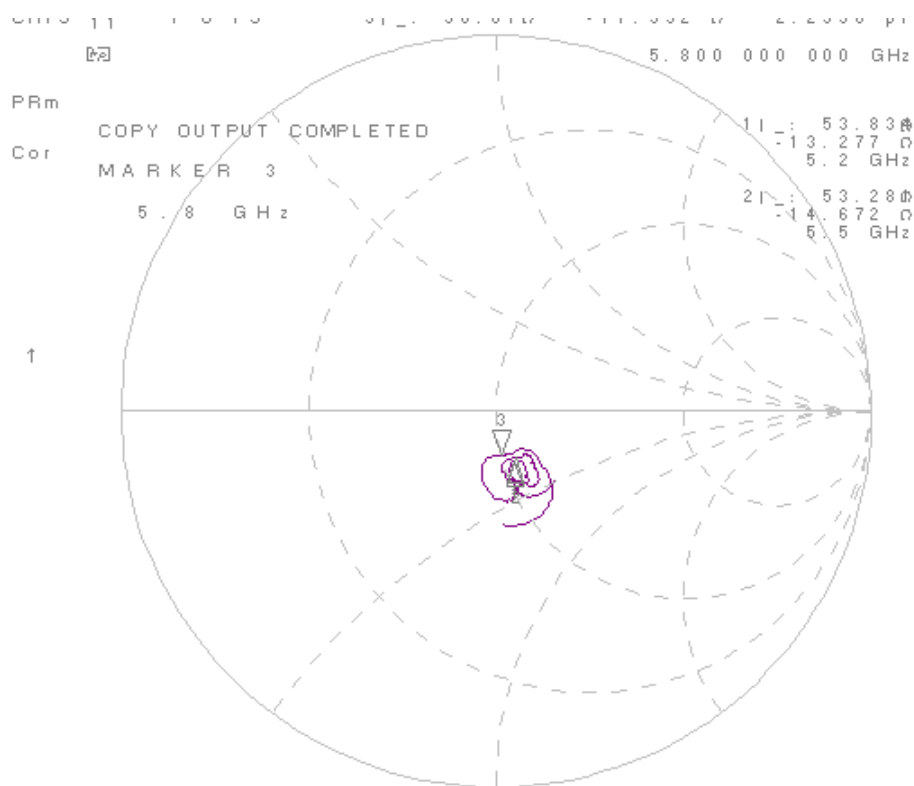
Reference Value = 65.0 V/m; Power Drift = -0.113 dB

Peak SAR (extrapolated) = 57.8 W/kg

SAR(1 g) = 15.2 mW/g; SAR(10 g) = 4.88 mW/g

Maximum value of SAR (measured) = 30.2 mW/g







APPENDIX E - MEASURED FLUID DIELECTRIC PARAMETERS

HSL2450

June 29, 2010 07:24 AM

Frequency	e'	e''
2.400000000 GI	38.880	13.4649
2.402000000 GI	38.870	13.4863
2.404000000 GI	38.844	13.4890
2.406000000 GI	38.836	13.5125
2.408000000 GI	38.823	13.5458
2.410000000 GI	38.803	13.5503
2.412000000 GI	38.791	13.5589
2.414000000 GI	38.774	13.5798
2.416000000 GI	38.768	13.5953
2.418000000 GI	38.754	13.6209
2.420000000 GI	38.745	13.6292
2.422000000 GI	38.743	13.6430
2.424000000 GI	38.715	13.6549
2.426000000 GI	38.716	13.6709
2.428000000 GI	38.710	13.6799
2.430000000 GI	38.703	13.6892
2.432000000 GI	38.696	13.7061
2.434000000 GI	38.700	13.7177
2.436000000 GI	38.698	13.7289
2.438000000 GI	38.689	13.7512
2.440000000 GI	38.692	13.7656
2.442000000 GI	38.682	13.7596
2.444000000 GI	38.682	13.7859
2.446000000 GI	38.688	13.7985
2.448000000 GI	38.670	13.7950
2.450000000 GI	38.666	13.8089
2.452000000 GI	38.676	13.8247
2.454000000 GI	38.661	13.8259
2.456000000 GI	38.654	13.8285
2.458000000 GI	38.645	13.8340
2.460000000 GI	38.641	13.8388
2.462000000 GI	38.628	13.8320
2.464000000 GI	38.626	13.8340
2.466000000 GI	38.615	13.8243
2.468000000 GI	38.602	13.8125

2.470000000 GI	38.604%	13.8216
2.472000000 GI	38.598%	13.8163
2.474000000 GI	38.576%	13.8159
2.476000000 GI	38.579%	13.8120
2.478000000 GI	38.572%	13.8096
2.480000000 GI	38.573%	13.7956
2.482000000 GI	38.559%	13.7968
2.484000000 GI	38.543%	13.7878
2.486000000 GI	38.537%	13.7929
2.488000000 GI	38.529%	13.7968
2.490000000 GI	38.532%	13.7879
2.492000000 GI	38.514%	13.7844
2.494000000 GI	38.502%	13.7980
2.496000000 GI	38.502%	13.7829
2.498000000 GI	38.486%	13.7958
2.500000000 GI	38.484%	13.8065

MSL2450

July 15, 2010 7:23 AM

Frequency	e'	e''
2.400000000 GI	52.201'	13.9186
2.402000000 GI	52.188'	13.9126
2.404000000 GI	52.166'	13.9322
2.406000000 GI	52.183'	13.9299
2.408000000 GI	52.161'	13.9431
2.410000000 GI	52.147'	13.9613
2.412000000 GI	52.146'	13.9741
2.414000000 GI	52.134'	13.9819
2.416000000 GI	52.137'	13.9916
2.418000000 GI	52.123'	14.0098
2.420000000 GI	52.103'	14.0190
2.422000000 GI	52.107'	14.0379
2.424000000 GI	52.101'	14.0528
2.426000000 GI	52.097'	14.0684
2.428000000 GI	52.083'	14.0753
2.430000000 GI	52.061'	14.0968
2.432000000 GI	52.068'	14.1191
2.434000000 GI	52.063'	14.1161
2.436000000 GI	52.052'	14.1377
2.438000000 GI	52.054'	14.1510
2.440000000 GI	52.037'	14.1702
2.442000000 GI	52.030'	14.1887
2.444000000 GI	52.027'	14.1976
2.446000000 GI	52.006'	14.2236
2.448000000 GI	52.004'	14.2352
2.450000000 GI	52.007'	14.2371
2.452000000 GI	52.004'	14.2553
2.454000000 GI	51.981'	14.2917
2.456000000 GI	51.990'	14.2828
2.458000000 GI	51.963'	14.2858
2.460000000 GI	51.960'	14.3169
2.462000000 GI	51.953'	14.3148
2.464000000 GI	51.945'	14.3257
2.466000000 GI	51.918'	14.3287
2.468000000 GI	51.922'	14.3444

2.470000000 GI	51.927%	14.3469
2.472000000 GI	51.910%	14.3585
2.474000000 GI	51.904%	14.3748
2.476000000 GI	51.890%	14.3694
2.478000000 GI	51.890%	14.3834
2.480000000 GI	51.900%	14.3743
2.482000000 GI	51.865%	14.3872
2.484000000 GI	51.873%	14.3911
2.486000000 GI	51.870%	14.3923
2.488000000 GI	51.856%	14.3980
2.490000000 GI	51.863%	14.4058
2.492000000 GI	51.855%	14.3914
2.494000000 GI	51.850%	14.4141
2.496000000 GI	51.835%	14.3946
2.498000000 GI	51.830%	14.3995
2.500000000 GI	51.830%	14.4152

HSL5800

July 13, 2010 08:05 AM

Frequency	e'	e''
5.000000000 GI	34.927	16.4466
5.020000000 GI	34.825	16.4451
5.040000000 GI	34.768	16.5113
5.060000000 GI	34.771	16.6042
5.080000000 GI	34.805	16.6202
5.100000000 GI	34.816	16.5916
5.120000000 GI	34.739	16.5330
5.140000000 GI	34.629	16.5389
5.160000000 GI	34.558	16.6326
5.180000000 GI	34.558	16.6971
5.200000000 GI	34.584	16.6972
5.220000000 GI	34.581	16.6747
5.240000000 GI	34.530	16.6373
5.260000000 GI	34.435	16.6411
5.280000000 GI	34.357	16.6961
5.300000000 GI	34.347	16.7801
5.320000000 GI	34.363	16.8228
5.340000000 GI	34.366	16.7967
5.360000000 GI	34.329	16.7334
5.380000000 GI	34.225	16.7123
5.400000000 GI	34.144	16.7984
5.420000000 GI	34.148	16.8653
5.440000000 GI	34.151	16.9147
5.460000000 GI	34.179	16.8945
5.480000000 GI	34.120	16.8085
5.500000000 GI	34.030	16.8027
5.520000000 GI	33.987	16.8735
5.540000000 GI	33.946	16.9359
5.560000000 GI	33.928	16.9499
5.580000000 GI	33.931	16.9700
5.600000000 GI	33.898	16.9135
5.620000000 GI	33.846	16.9065
5.640000000 GI	33.755	16.9412
5.660000000 GI	33.743	17.0091
5.680000000 GI	33.729	17.0788

5.700000000 GI	33.766'	17.0618
5.720000000 GI	33.730'	16.9900
5.740000000 GI	33.654'	16.9730
5.760000000 GI	33.621'	17.0260
5.780000000 GI	33.576'	17.0841
5.800000000 GI	33.550'	17.1170
5.820000000 GI	33.531'	17.1015
5.840000000 GI	33.483'	17.0502
5.860000000 GI	33.438'	17.0709
5.880000000 GI	33.426'	17.0903
5.900000000 GI	33.426'	17.1460
5.920000000 GI	33.392'	17.1775
5.940000000 GI	33.353'	17.1778
5.960000000 GI	33.320'	17.2113
5.980000000 GI	33.326'	17.1906
6.000000000 GI	33.301'	17.1862

HSL5800

July 14, 2010 07:08 AM

Frequency	e'	e''
5.000000000 GI	35.065	16.4561
5.020000000 GI	34.977	16.4105
5.040000000 GI	34.895	16.4442
5.060000000 GI	34.883	16.5719
5.080000000 GI	34.865	16.6209
5.100000000 GI	34.911	16.6104
5.120000000 GI	34.861	16.5441
5.140000000 GI	34.782	16.5220
5.160000000 GI	34.694	16.5768
5.180000000 GI	34.653	16.6385
5.200000000 GI	34.655	16.6821
5.220000000 GI	34.670	16.6896
5.240000000 GI	34.651	16.6469
5.260000000 GI	34.578	16.6205
5.280000000 GI	34.493	16.6509
5.300000000 GI	34.464	16.7131
5.320000000 GI	34.450	16.7856
5.340000000 GI	34.457	16.8026
5.360000000 GI	34.437	16.7496
5.380000000 GI	34.351	16.6972
5.400000000 GI	34.297	16.7431
5.420000000 GI	34.250	16.8132
5.440000000 GI	34.243	16.8654
5.460000000 GI	34.263	16.8929
5.480000000 GI	34.222	16.8137
5.500000000 GI	34.154	16.8001
5.520000000 GI	34.119	16.8335
5.540000000 GI	34.062	16.8768
5.560000000 GI	34.026	16.9134
5.580000000 GI	34.016	16.9519
5.600000000 GI	33.996	16.9136
5.620000000 GI	33.958	16.9057
5.640000000 GI	33.881	16.9113
5.660000000 GI	33.867	16.9555
5.680000000 GI	33.835	17.0394

5.700000000 GI	33.850	17.0426
5.720000000 GI	33.811	16.9826
5.740000000 GI	33.757	16.9748
5.760000000 GI	33.736	17.0087
5.780000000 GI	33.686	17.0480
5.800000000 GI	33.656	17.0747
5.820000000 GI	33.624	17.0726
5.840000000 GI	33.565	17.0478
5.860000000 GI	33.524	17.0672
5.880000000 GI	33.536	17.0943
5.900000000 GI	33.548	17.1160
5.920000000 GI	33.513	17.1421
5.940000000 GI	33.453	17.1510
5.960000000 GI	33.400	17.1971
5.980000000 GI	33.401	17.1949
6.000000000 GI	33.408	17.1904

HSL5800

July 15, 2010 08:09 AM

Frequency	e'	e''
5.000000000 GI	35.085	16.4539
5.020000000 GI	34.996	16.3905
5.040000000 GI	34.923	16.4370
5.060000000 GI	34.878	16.5550
5.080000000 GI	34.880	16.6174
5.100000000 GI	34.929	16.6148
5.120000000 GI	34.889	16.5452
5.140000000 GI	34.802	16.5213
5.160000000 GI	34.701	16.5609
5.180000000 GI	34.672	16.6323
5.200000000 GI	34.667	16.6832
5.220000000 GI	34.693	16.6966
5.240000000 GI	34.668	16.6507
5.260000000 GI	34.605	16.6210
5.280000000 GI	34.509	16.6317
5.300000000 GI	34.479	16.6935
5.320000000 GI	34.463	16.7887
5.340000000 GI	34.465	16.8007
5.360000000 GI	34.452	16.7529
5.380000000 GI	34.377	16.6921
5.400000000 GI	34.313	16.7359
5.420000000 GI	34.269	16.7961
5.440000000 GI	34.250	16.8687
5.460000000 GI	34.274	16.8933
5.480000000 GI	34.240	16.8226
5.500000000 GI	34.170	16.7927
5.520000000 GI	34.129	16.8250
5.540000000 GI	34.071	16.8680
5.560000000 GI	34.038	16.9070
5.580000000 GI	34.022	16.9568
5.600000000 GI	34.016	16.9210
5.620000000 GI	33.979	16.8991
5.640000000 GI	33.910	16.9010
5.660000000 GI	33.887	16.9452
5.680000000 GI	33.836	17.0343

5.700000000 GI	33.859	17.0408
5.720000000 GI	33.823	16.9848
5.740000000 GI	33.777	16.9714
5.760000000 GI	33.752	17.0082
5.780000000 GI	33.700	17.0399
5.800000000 GI	33.669	17.0683
5.820000000 GI	33.642	17.0634
5.840000000 GI	33.578	17.0538
5.860000000 GI	33.543	17.0690
5.880000000 GI	33.552	17.0954
5.900000000 GI	33.549	17.1056
5.920000000 GI	33.533	17.1312
5.940000000 GI	33.465	17.1425
5.960000000 GI	33.414	17.2013
5.980000000 GI	33.409	17.2016
6.000000000 GI	33.417	17.1811

MSL5800 Fluid Verification

July 09, 2010 08:17 AM

Frequency	e'	e''
5.000000000 GI	47.502	18.2933
5.020000000 GI	47.469	18.2442
5.040000000 GI	47.342	18.2469
5.060000000 GI	47.212	18.3444
5.080000000 GI	47.175	18.4104
5.100000000 GI	47.205	18.4815
5.120000000 GI	47.241	18.4566
5.140000000 GI	47.180	18.4294
5.160000000 GI	47.053	18.4403
5.180000000 GI	46.948	18.5062
5.200000000 GI	46.903	18.6117
5.220000000 GI	46.961	18.6894
5.240000000 GI	47.006	18.6690
5.260000000 GI	46.956	18.6158
5.280000000 GI	46.810	18.6035
5.300000000 GI	46.688	18.6865
5.320000000 GI	46.644	18.8081
5.340000000 GI	46.716	18.8885
5.360000000 GI	46.771	18.8653
5.380000000 GI	46.726	18.7861
5.400000000 GI	46.580	18.7756
5.420000000 GI	46.464	18.8774
5.440000000 GI	46.433	18.9692
5.460000000 GI	46.484	19.0449
5.480000000 GI	46.496	19.0054
5.500000000 GI	46.447	18.9728
5.520000000 GI	46.334	18.9540
5.540000000 GI	46.239	19.0186
5.560000000 GI	46.199	19.1157
5.580000000 GI	46.239	19.2251
5.600000000 GI	46.256	19.1929
5.620000000 GI	46.198	19.1545
5.640000000 GI	46.096	19.1340
5.660000000 GI	46.015	19.1850
5.680000000 GI	46.002	19.3071

5.700000000 GI	46.052%	19.3784
5.720000000 GI	46.031%	19.3523
5.740000000 GI	45.967%	19.3054
5.760000000 GI	45.896%	19.3232
5.780000000 GI	45.836%	19.3746
5.800000000 GI	45.810%	19.4855
5.820000000 GI	45.809%	19.5278
5.840000000 GI	45.770%	19.5291
5.860000000 GI	45.737%	19.4965
5.880000000 GI	45.722%	19.4802
5.900000000 GI	45.683%	19.5573
5.920000000 GI	45.664%	19.6276
5.940000000 GI	45.623%	19.6903
5.960000000 GI	45.581%	19.6829
5.980000000 GI	45.544%	19.6757
6.000000000 GI	45.496%	19.6545

MSL5800 Fluid Verification

July 12, 2010 08:05 AM

Frequency	e'	e''
5.000000000 GI	48.635	18.2987
5.020000000 GI	48.539	18.3021
5.040000000 GI	48.480	18.3973
5.060000000 GI	48.465	18.5141
5.080000000 GI	48.443	18.5528
5.100000000 GI	48.422	18.5365
5.120000000 GI	48.357	18.4851
5.140000000 GI	48.291	18.5060
5.160000000 GI	48.240	18.5884
5.180000000 GI	48.227	18.6538
5.200000000 GI	48.163	18.6872
5.220000000 GI	48.134	18.7085
5.240000000 GI	48.082	18.7052
5.260000000 GI	48.060	18.7021
5.280000000 GI	48.022	18.7517
5.300000000 GI	47.933	18.7932
5.320000000 GI	47.875	18.8617
5.340000000 GI	47.818	18.8962
5.360000000 GI	47.799	18.8839
5.380000000 GI	47.758	18.8813
5.400000000 GI	47.754	18.9150
5.420000000 GI	47.713	18.9692
5.440000000 GI	47.616	19.0210
5.460000000 GI	47.544	19.0634
5.480000000 GI	47.494	19.0573
5.500000000 GI	47.519	19.0922
5.520000000 GI	47.523	19.1143
5.540000000 GI	47.453	19.1284
5.560000000 GI	47.336	19.1868
5.580000000 GI	47.241	19.2481
5.600000000 GI	47.222	19.2580
5.620000000 GI	47.221	19.2693
5.640000000 GI	47.283	19.2873
5.660000000 GI	47.191	19.3232
5.680000000 GI	47.094	19.3667

5.700000000 GI	47.001%	19.4177
5.720000000 GI	46.983%	19.4214
5.740000000 GI	47.003%	19.4423
5.760000000 GI	47.035%	19.4900
5.780000000 GI	46.966%	19.5140
5.800000000 GI	46.883%	19.5573
5.820000000 GI	46.779%	19.5710
5.840000000 GI	46.733%	19.5843
5.860000000 GI	46.736%	19.6288
5.880000000 GI	46.777%	19.6619
5.900000000 GI	46.769%	19.7212
5.920000000 GI	46.691%	19.7392
5.940000000 GI	46.600%	19.7641
5.960000000 GI	46.560%	19.8250
5.980000000 GI	46.551%	19.8104
6.000000000 GI	46.577%	19.8237



APPENDIX F – PHANTOM CERTIFICATE OF CONFORMITY

Certificate of conformity / First Article Inspection

Item	SAM Twin Phantom V4.0
Type No	QD 000 P40 C
Series No	TP-1150 and higher
Manufacturer / Origin	Untersee Composites Hauptstr. 69 CH-8559 Fruthwilen Switzerland

Tests

The series production process used allows the limitation to test of first articles.

Complete tests were made on the pre-series Type No. QD 000 P40 AA, Serial No. TP-1001 and on the series first article Type No. QD 000 P40 BA, Serial No. TP-1006. Certain parameters have been retested using further series units (called samples).

Test	Requirement	Details	Units tested
Shape	Compliance with the geometry according to the CAD model.	IT'IS CAD File (*)	First article, Samples
Material thickness	Compliant with the requirements according to the standards	2mm +/- 0.2mm in specific areas; 6mm +/- 0.2mm at ERP	First article, Samples
Material parameters	Dielectric parameters for required frequencies	200 MHz – 3 GHz Relative permittivity < 5 Loss tangent < 0.05.	Material sample TP 104-5
Material resistivity	The material has been tested to be compatible with the liquids defined in the standards if handled and cleaned according to the instructions	DEGMBE based simulating liquids	Pre-series, First article, Samples

Standards

[1] CENELEC EN 50361

[2] IEEE Std 1528-200x Draft CD 1.1 (Dec 02)

[3] IEC 62209/CD (Nov 02)

(*) The IT'IS CAD file is derived from [2] and is also within the tolerance requirements of the shapes of [1] and [3].

Conformity

Based on the sample tests above, we certify that this item is in compliance with the uncertainty requirements of SAR measurements specified in standard [1] and draft standards [2] and [3].

Date

7.8.2003

Signature / Stamp**s p e a g**

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