Date/Time: 1/03/2008 8:35:19 AM

Test Laboratory: Compliance Certification Services Inc.

D2450V2 SN-728 Body

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:728

Communication System: CW2450; Frequency: 2450 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2450 MHz; σ = 1.98 mho/m; ε_r = 51.7; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

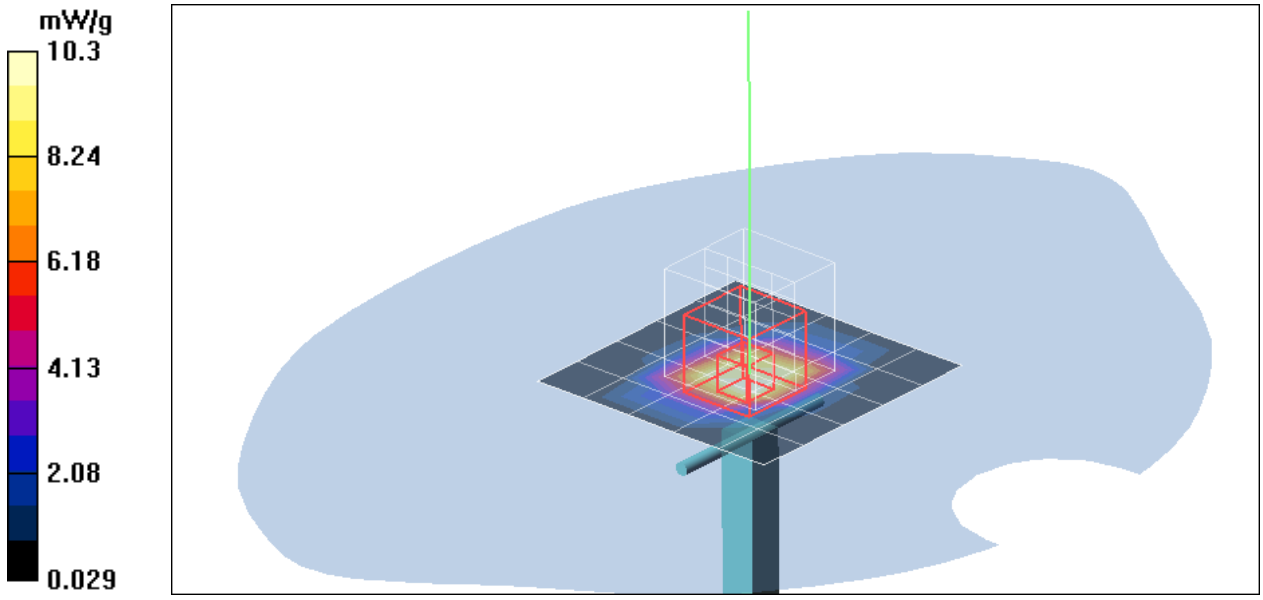
DASY4 Configuration:

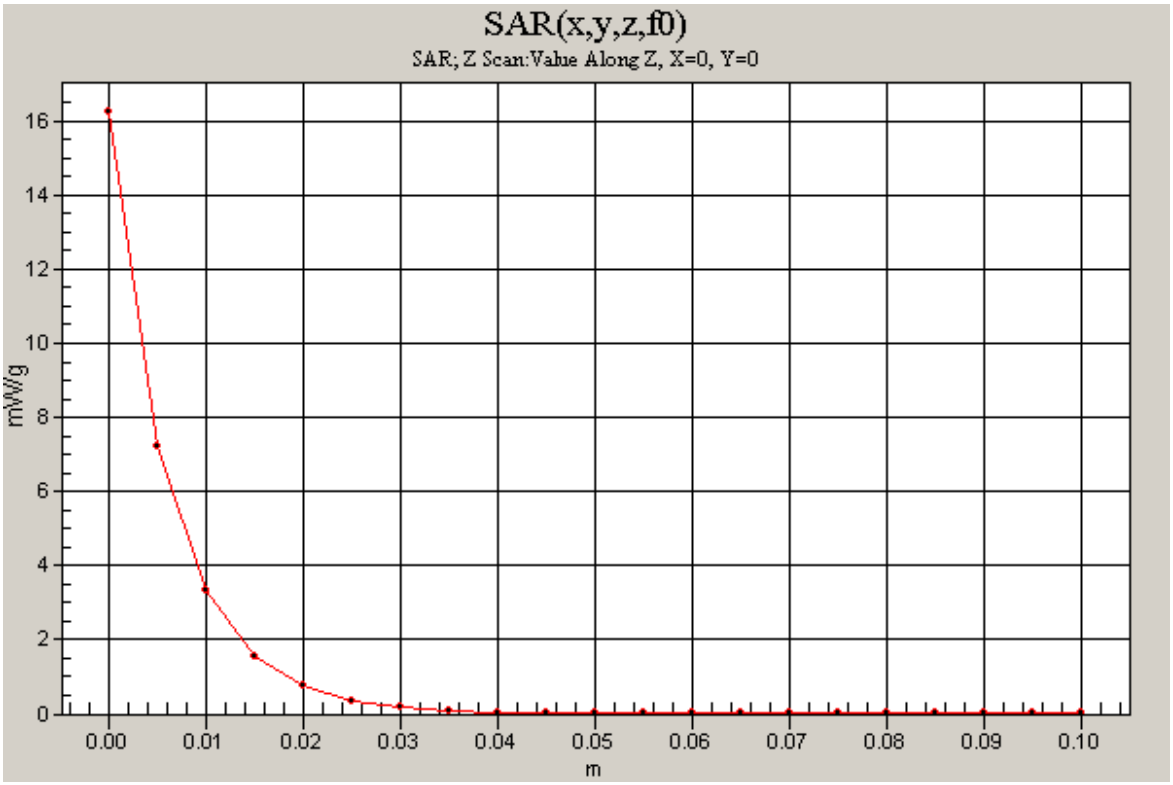
- Probe: EX3DV4 - SN3552; ConvF(6.95, 6.95, 6.95);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Pin=250mW,d=10mm/Area Scan (6x6x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 10.3 mW/g

Pin=250mW,d=10mm/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 85.4 V/m; Power Drift = -0.055 dB
Peak SAR (extrapolated) = 34.0 W/kg
SAR(1 g) = 14.4 mW/g; SAR(10 g) = 6.33 mW/g
Maximum value of SAR (measured) = 16.1 mW/g

Pin=250mW,d=10mm/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Maximum value of SAR (measured) = 16.2 mW/g


mW/g
10.3
8.24
6.18
4.13
2.08
0.029


SAR(x,y,z,f0)
SAR; Z Scan:Value Along Z, X=0, Y=0
mW/g
m
0
2
4
6
8
10
12
14
16
0.00
0.01
0.02
0.03
0.04
0.05
0.06
0.07
0.08
0.09
0.10

Date/Time: 1/05/2008 7:38:54 AM

Test Laboratory: Compliance Certification Services Inc.

D5GHz V2 SN 1004

DUT: Dipole 5GHz ; Type: D5GHz V2; Serial: 1004

Communication System: CW5GHz; Frequency: 5200 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5200 MHz; σ = 5.32 mho/m; ε_r = 48.6; ρ = 1000 kg/m^3

Phantom section: Flat Section
Air Temperature:24.5 deg C;Liquid Temperature:23.5 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(4.34, 4.34, 4.34);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Pin=250mW,d=10mm f=5200MHz/Area Scan (8x8x1): Measurement grid: dx=10mm, dy=10mm

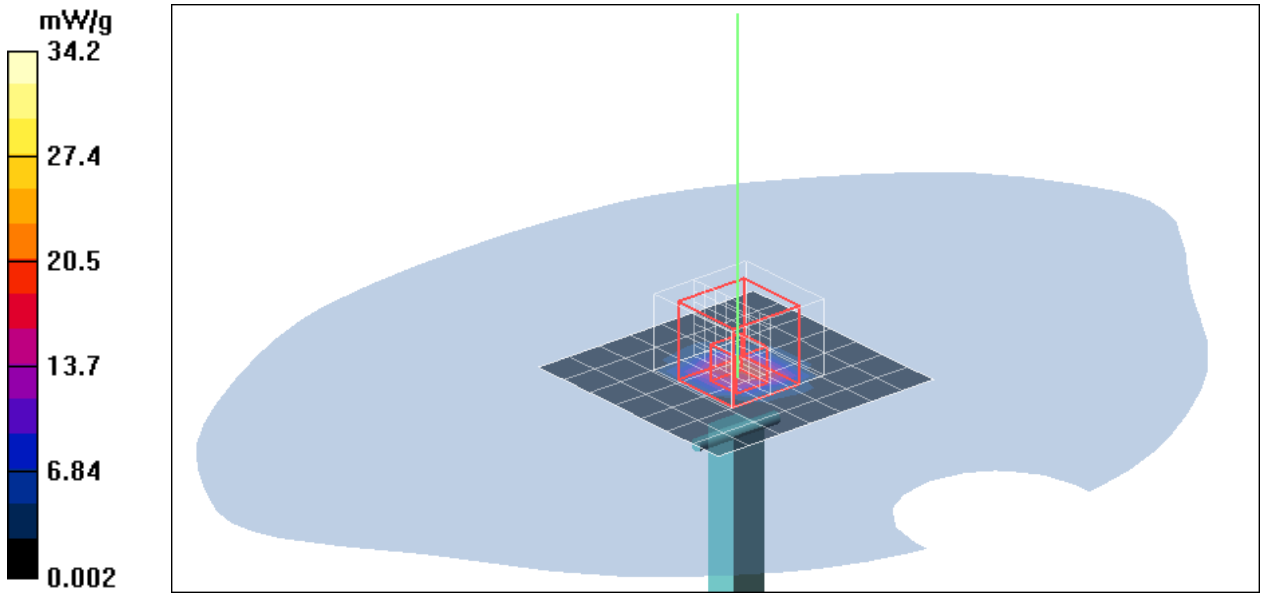
Maximum value of SAR (measured) = 21.2 mW/g

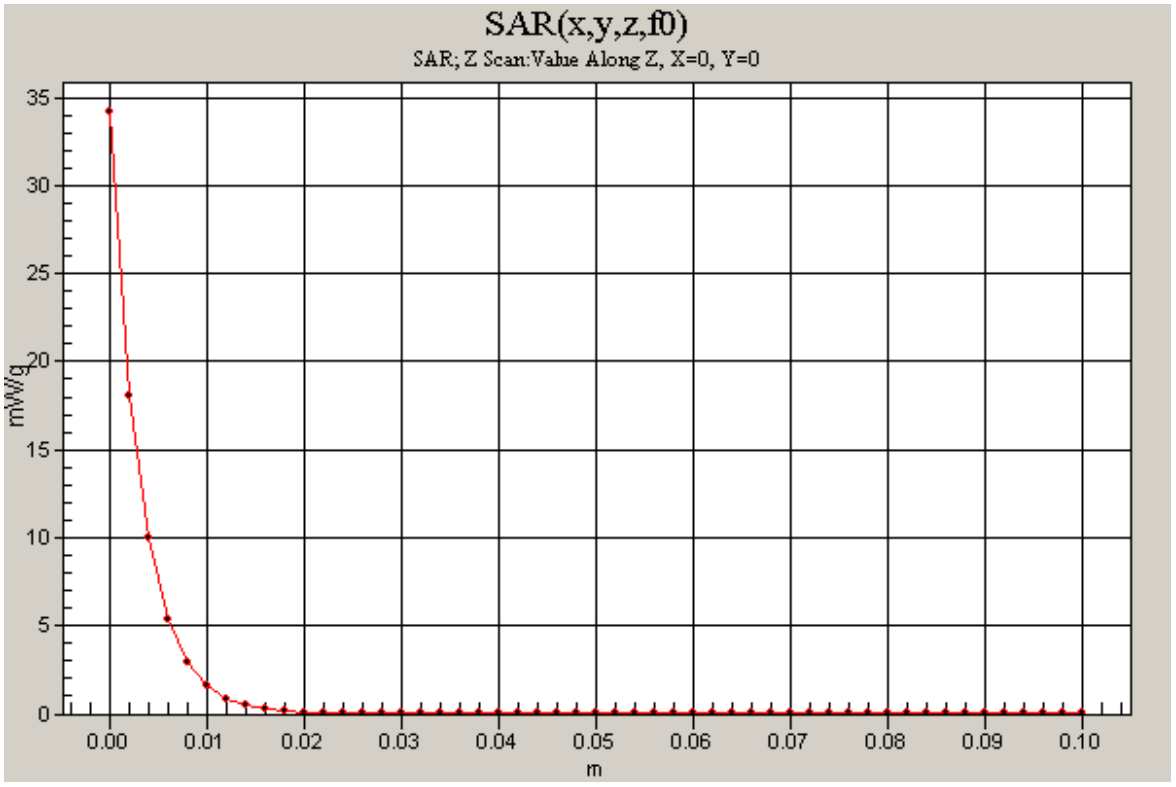
Pin=250mW,d=10mm f=5200MHz/Zoom Scan (8x8x8)/Cube 0:

Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm
Reference Value = 79.1 V/m; Power Drift = -0.033 dB
Peak SAR (extrapolated) = 75.5 W/kg
SAR(1 g) = 18.8 mW/g; SAR(10 g) = 5.2 mW/g
Maximum value of SAR (measured) = 32.0 mW/g

Pin=250mW,d=10mm f=5200MHz/Z Scan (1x1x51): Measurement grid: dx=20mm, dy=20mm, dz=2mm

Maximum value of SAR (measured) = 34.2 mW/g


mW/g
34.2
27.4
20.5
13.7
6.84
0.002


SAR(x,y,z,f0)
SAR; Z Scan:Value Along Z, X=0, Y=0
mW/g
m
35
30
25
20
15
10
5
0
0.00
0.01
0.02
0.03
0.04
0.05
0.06
0.07
0.08
0.09
0.10

Date/Time: 1/05/2008 8:28:11 AM

Test Laboratory: Compliance Certification Services Inc.

D5GHz V2 SN 1004

DUT: Dipole 5GHz ; Type: D5GHz V2; Serial: 1004

Communication System: CW5GHz; Frequency: 5800 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5800 MHz; σ = 6.18 mho/m; ε_r = 47.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.5 deg C;Liquid Temperature:23.5 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(4.10, 4.10, 4.10);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Pin=250mW,d=10mm f=5800MHz/Area Scan (8x8x1): Measurement grid: dx=10mm, dy=10mm

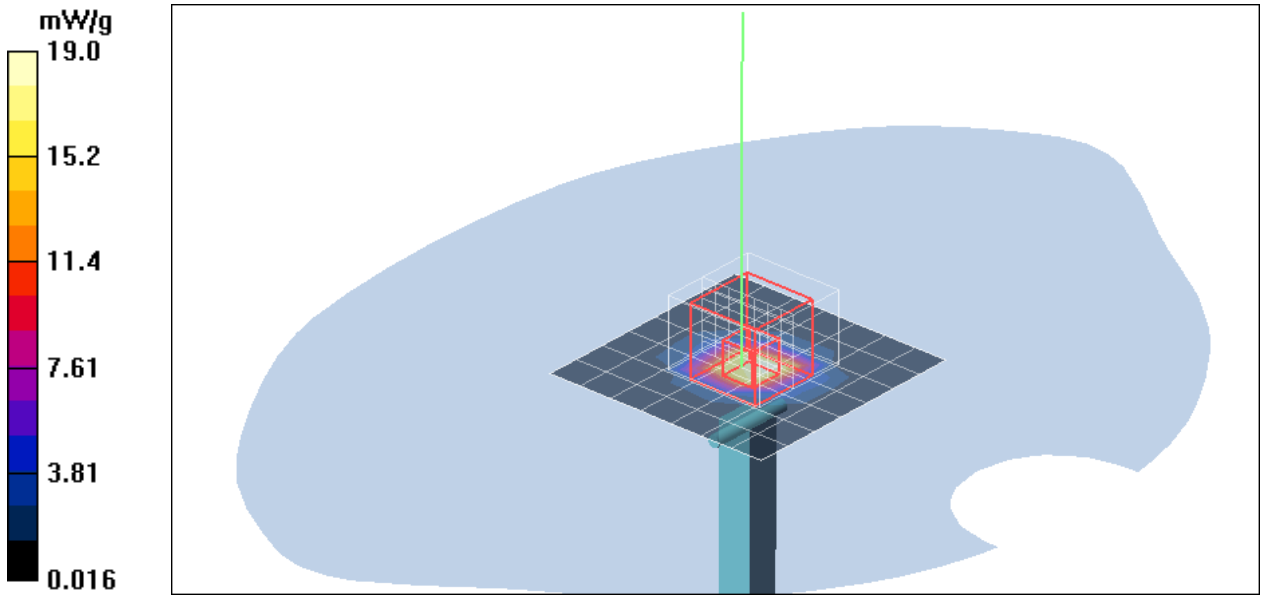
Maximum value of SAR (measured) = 19.0 mW/g

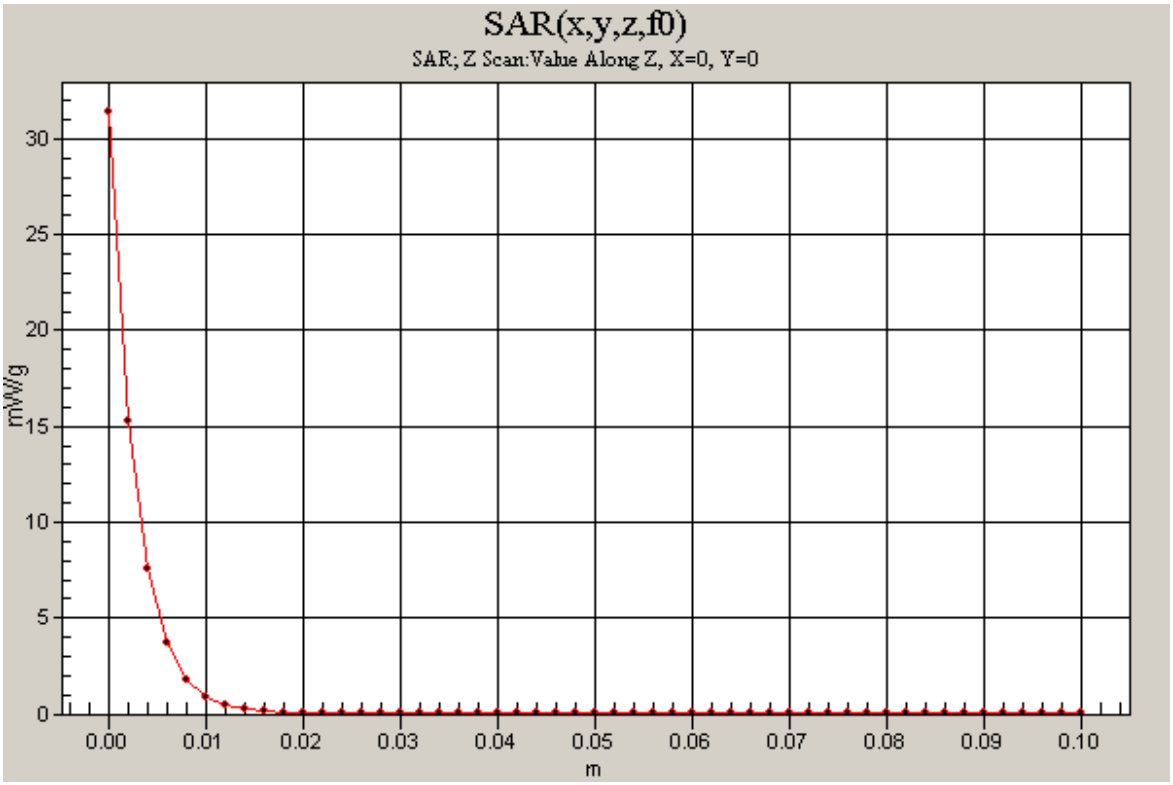
Pin=250mW,d=10mm f=5800MHz/Zoom Scan (8x8x8)/Cube 0:

Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm
Reference Value = 73.3 V/m; Power Drift = -0.064 dB
Peak SAR (extrapolated) = 85.2 W/kg
SAR(1 g) = 17.6 mW/g; SAR(10 g) = 4.87 mW/g
Maximum value of SAR (measured) = 29.8 mW/g

Pin=250mW,d=10mm f=5800MHz/Z Scan (1x1x51): Measurement grid: dx=20mm, dy=20mm, dz=2mm

Maximum value of SAR (measured) = 31.4 mW/g


mW/g
19.0
15.2
11.4
7.61
3.81
0.016


SAR(x,y,z,f0)
SAR; Z Scan:Value Along Z, X=0, Y=0
mW/g
30
25
20
15
10
5
0
0.00
0.01
0.02
0.03
0.04
0.05
0.06
0.07
0.08
0.09
0.10
m

Date/Time: 1/07/2008 8:35:13 AM

Test Laboratory: Compliance Certification Services Inc.

D5GHz V2 SN 1004

DUT: Dipole 5GHz ; Type: D5GHz V2; Serial: 1004

Communication System: CW5GHz; Frequency: 5200 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5200 MHz; σ = 5.36 mho/m; ε_r = 48.3; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.6 deg C;Liquid Temperature:23.6 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(4.34, 4.34, 4.34);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Pin=250mW,d=10mm f=5200MHz/Area Scan (8x8x1): Measurement grid: dx=10mm, dy=10mm

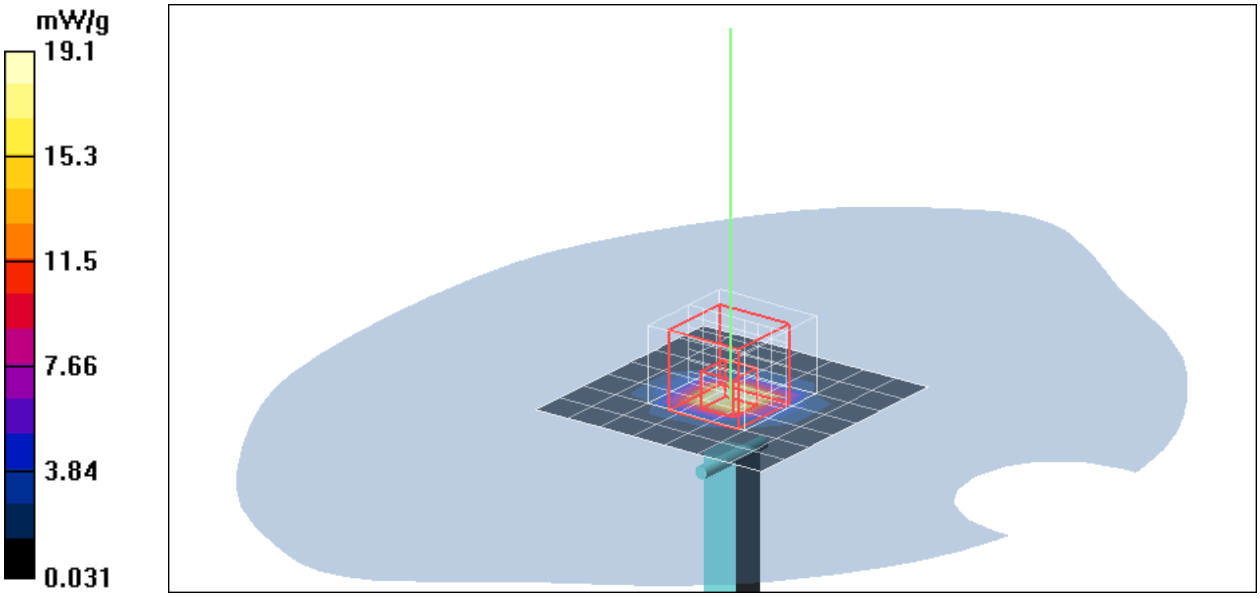
Maximum value of SAR (measured) = 19.1 mW/g

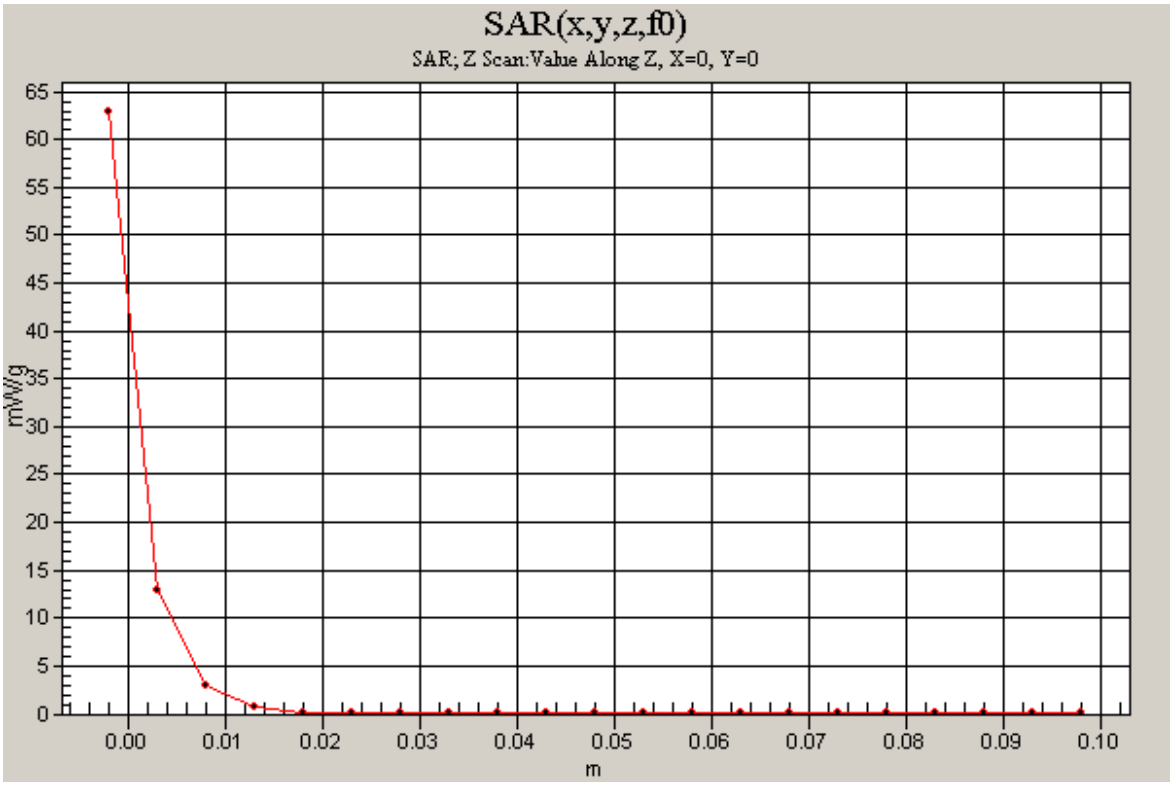
Pin=250mW,d=10mm f=5200MHz/Zoom Scan (8x8x8)/Cube 0:

Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm
Reference Value = 81.4 V/m; Power Drift = -0.048 dB
Peak SAR (extrapolated) = 69.6 W/kg
SAR(1 g) = 18.0 mW/g; SAR(10 g) = 5.12 mW/g
Maximum value of SAR (measured) = 30.2 mW/g

Pin=250mW,d=10mm f=5200MHz/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of SAR (measured) = 62.9 mW/g


mW/g
19.1
15.3
11.5
7.66
3.84
0.031


SAR(x,y,z,f0)
SAR; Z Scan:Value Along Z, X=0, Y=0
mW/g
65
60
55
50
45
40
35
30
25
20
15
10
5
0
0.00
0.01
0.02
0.03
0.04
0.05
0.06
0.07
0.08
0.09
0.10
m

Date/Time: 1/07/2008 9:04:35 AM

Test Laboratory: Compliance Certification Services Inc.

D5GHz V2 SN 1004

DUT: Dipole 5GHz ; Type: D5GHz V2; Serial: 1004

Communication System: CW5GHz; Frequency: 5800 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5800 MHz; σ = 6.22 mho/m; ε_r = 47.1; ρ = 1000 kg/m^3

Phantom section: Flat Section
Air Temperature:24.6 deg C;Liquid Temperature:23.6 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(4.10, 4.10, 4.10);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Pin=250mW,d=10mm f=5800MHz/Area Scan (8x8x1): Measurement grid: dx=10mm, dy=10mm

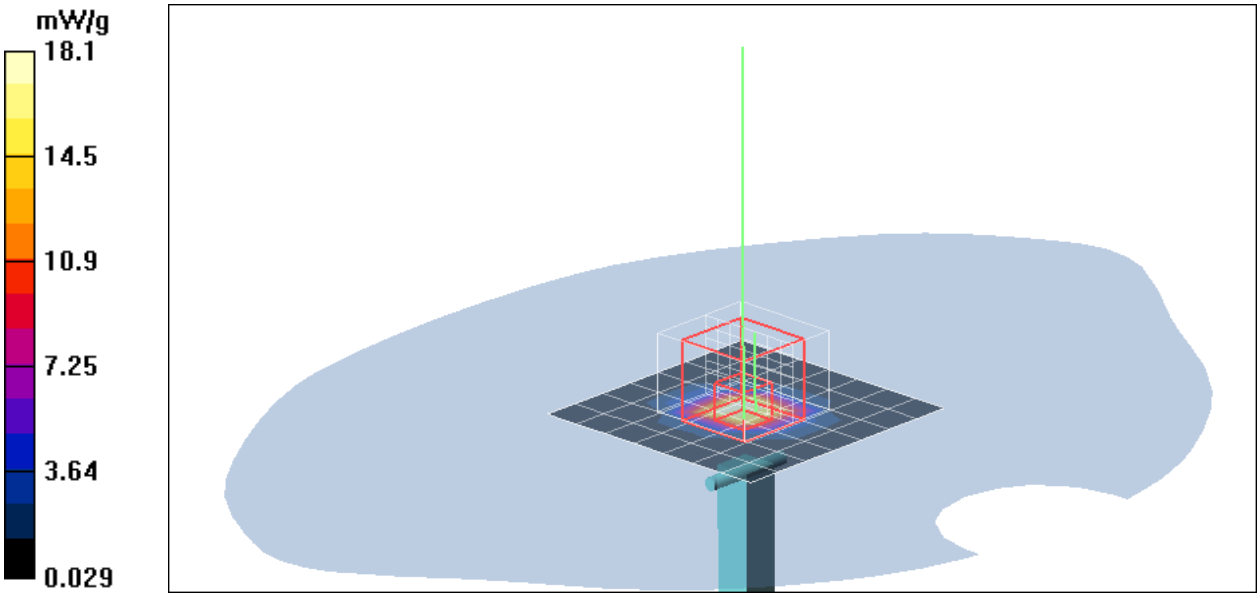
Maximum value of SAR (measured) = 18.1 mW/g

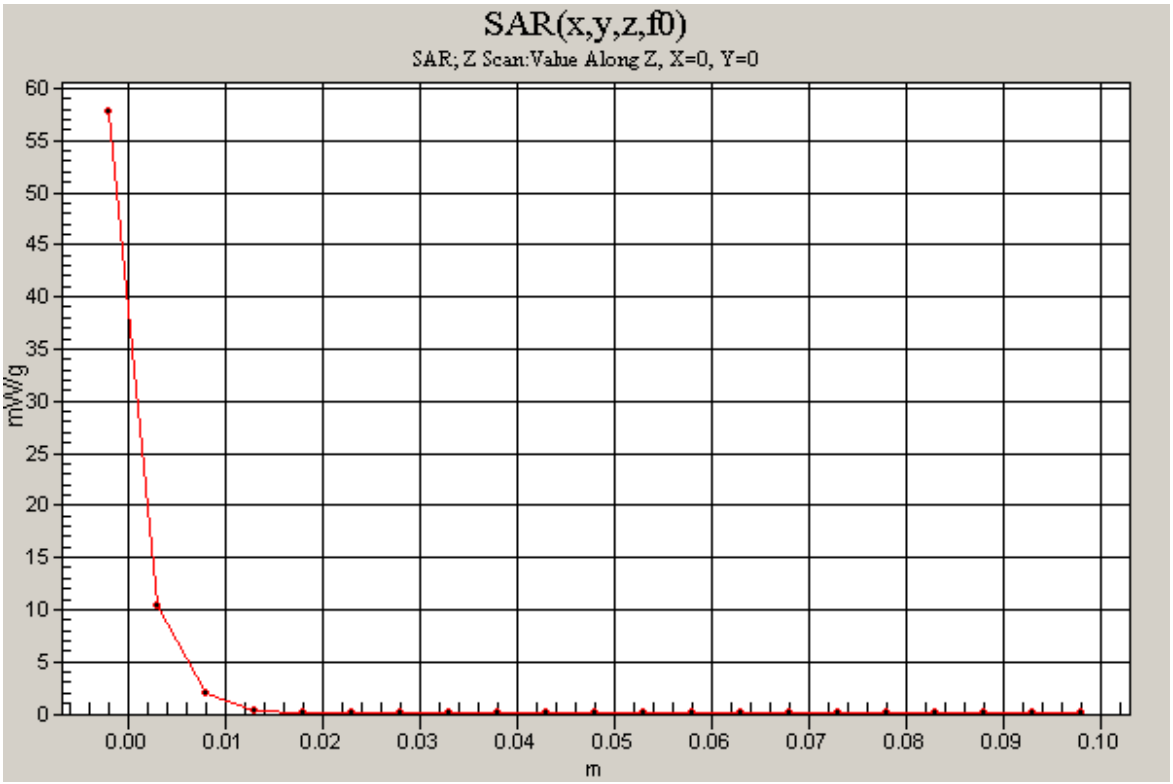
Pin=250mW,d=10mm f=5800MHz/Zoom Scan (8x8x8)/Cube 0:

Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm
Reference Value = 73.3 V/m; Power Drift = -0.021 dB
Peak SAR (extrapolated) = 78.6 W/kg
SAR(1 g) = 17.1 mW/g; SAR(10 g) = 4.75 mW/g
Maximum value of SAR (measured) = 27.7 mW/g

Pin=250mW,d=10mm f=5800MHz/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of SAR (measured) = 57.7 mW/g


mW/g
18.1
14.5
10.9
7.25
3.64
0.029


SAR(x,y,z,f0)
SAR; Z Scan:Value Along Z, X=0, Y=0
mW/g
m
60
55
50
45
40
35
30
25
20
15
10
5
0
0.00
0.01
0.02
0.03
0.04
0.05
0.06
0.07
0.08
0.09
0.10

Date/Time: 1/03/2008 9:06:29 AM

Test Laboratory: Compliance Certification Services Inc.

802.11b Horizontal Bottom Flat Touched mode IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11b WLAN; Frequency: 2437 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.96 mho/m; ε_r = 51.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

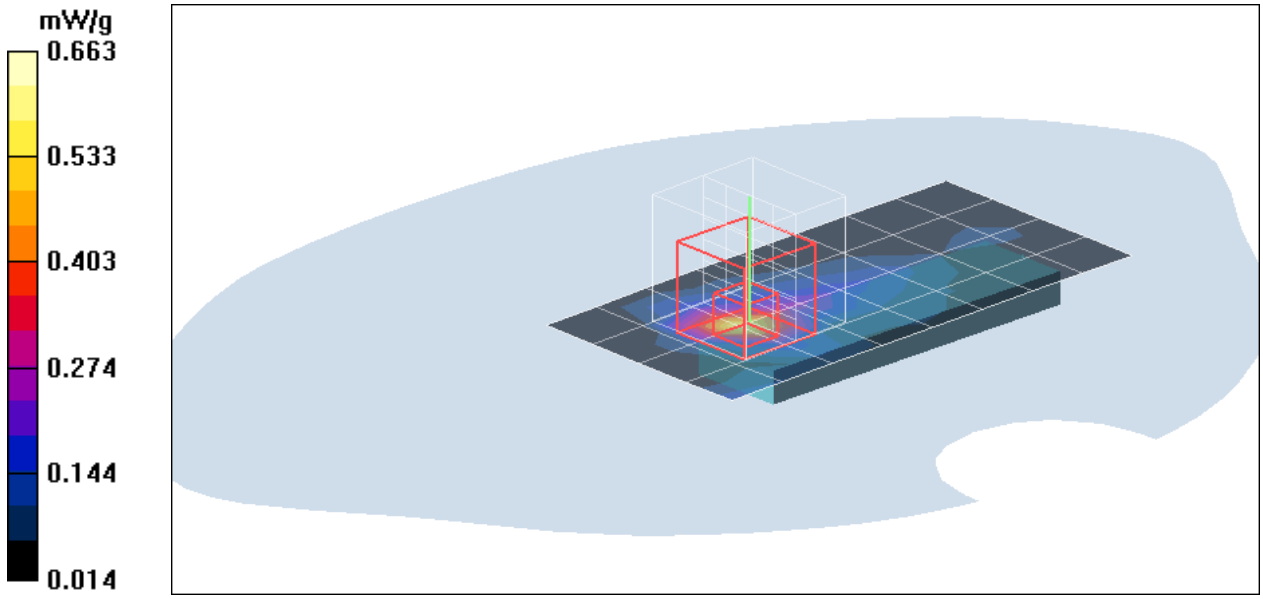
- Probe: EX3DV4 - SN3552; ConvF(6.95, 6.95, 6.95);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Middle CH, Rate=1M/Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.607 mW/g

Middle CH, Rate=1M/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 20.6 V/m; Power Drift = -0.030 dB
Peak SAR (extrapolated) = 0.851 W/kg
SAR(1 g) = 0.486 mW/g; SAR(10 g) = 0.234 mW/g
Maximum value of SAR (measured) = 0.663 mW/g


mW/g
0.663
0.533
0.403
0.274
0.144
0.014

Date/Time: 1/03/2008 9:29:29 AM

Test Laboratory: Compliance Certification Services Inc.

802.11g Horizontal Bottom Flat Touched mode IBM T60 II

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11g WLAN; Frequency: 2437 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.96 mho/m; ε_r = 51.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

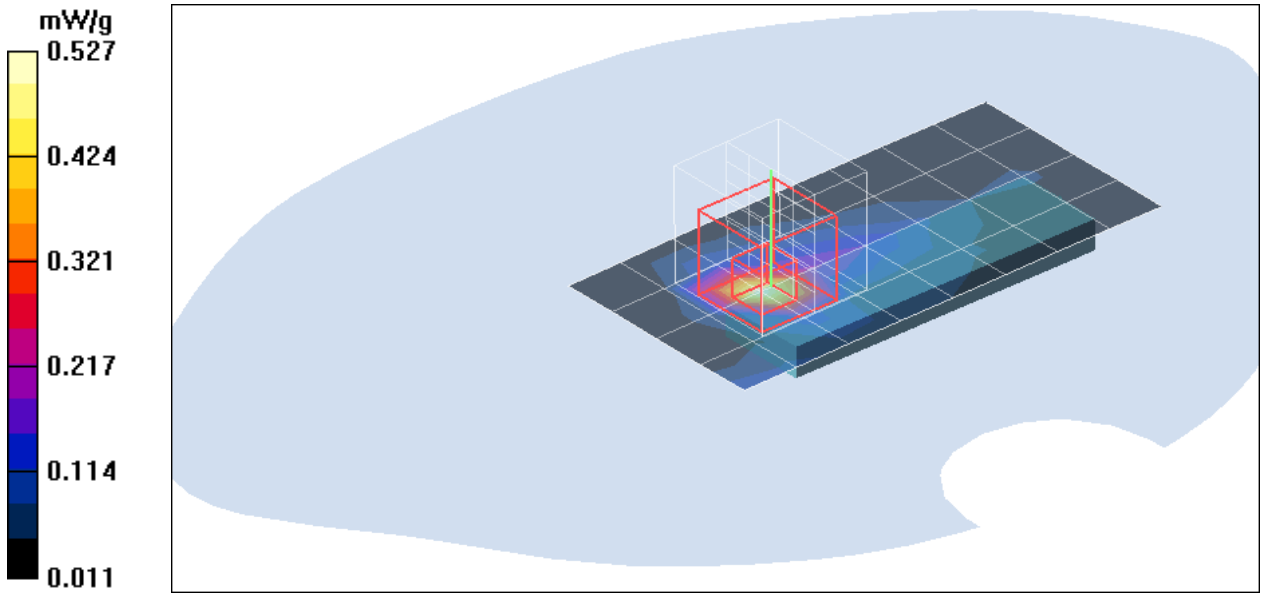
- Probe: EX3DV4 - SN3552; ConvF(6.95, 6.95, 6.95);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Middle CH, Rate=6M/Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.537 mW/g

Middle CH, Rate=6M/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 19.0 V/m; Power Drift = -0.113 dB
Peak SAR (extrapolated) = 0.636 W/kg
SAR(1 g) = 0.388 mW/g; SAR(10 g) = 0.183 mW/g
Maximum value of SAR (measured) = 0.527 mW/g


mW/g
0.527
0.424
0.321
0.217
0.114
0.011

Date/Time: 1/03/20087 9:53:17 AM

Test Laboratory: Compliance Certification Services Inc.

802.11g Horizontal Bottom Flat Touched mode HT20 IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11g WLAN; Frequency: 2437 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.96 mho/m; ε_r = 51.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

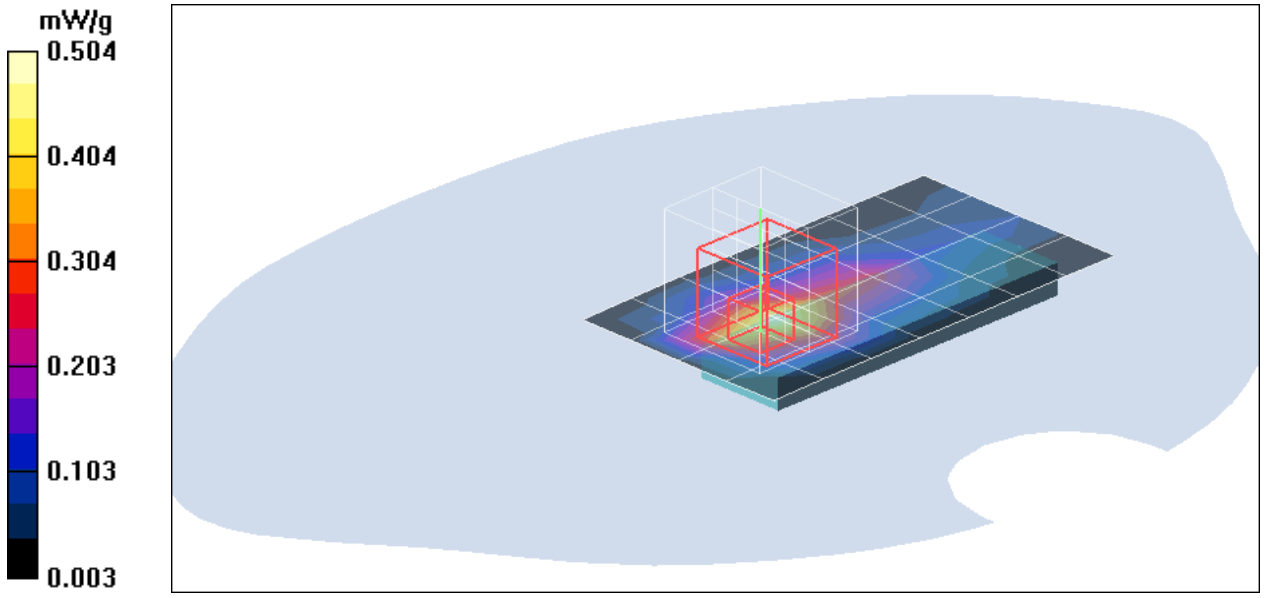
- Probe: EX3DV4 - SN3552; ConvF(6.95, 6.95, 6.95);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Middle CH, Rate=6M/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.504 mW/g

Middle CH, Rate=6M/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 20.0 V/m; Power Drift = -0.109 dB
Peak SAR (extrapolated) = 1.10 W/kg
SAR(1 g) = 0.462 mW/g; SAR(10 g) = 0.196 mW/g
Maximum value of SAR (measured) = 0.693 mW/g


mW/g
0.504
0.404
0.304
0.203
0.103
0.003

Date/Time: 1/03/2008 10:17:25 AM

Test Laboratory: Compliance Certification Services Inc.

802.11g Horizontal Bottom Flat Touched mode HT40 IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11g WLAN HT40; Frequency: 2437 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.96 mho/m; ε_r = 51.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

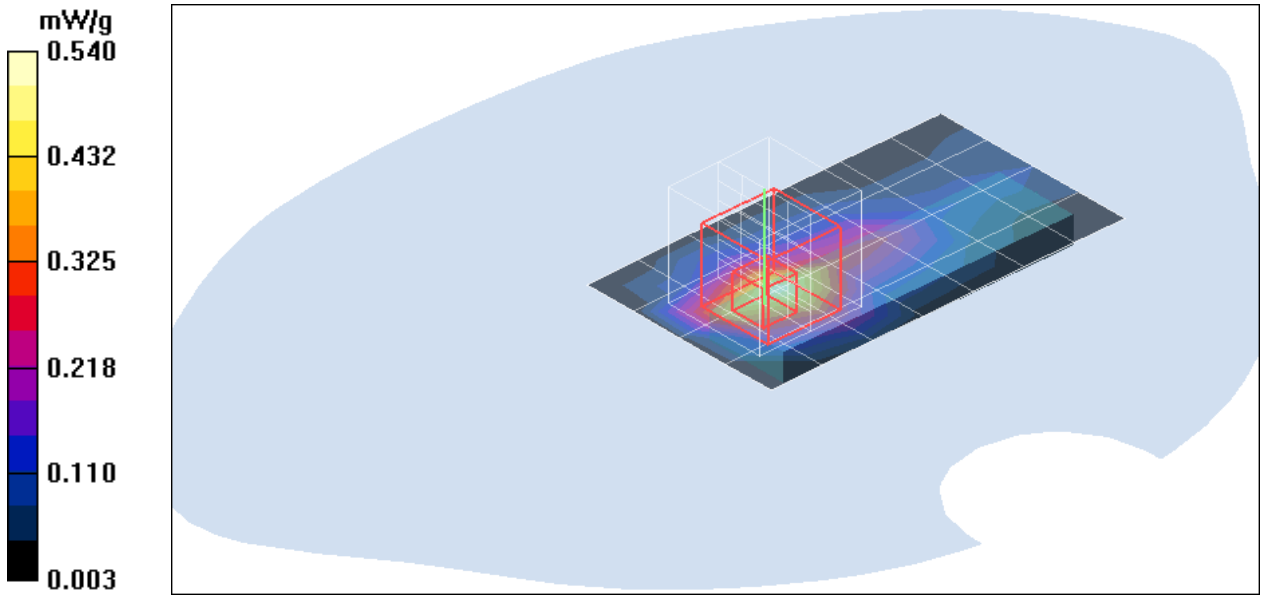
- Probe: EX3DV4 - SN3552; ConvF(6.95, 6.95, 6.95);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Middle CH, Rate=6M/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.540 mW/g

Middle CH, Rate=6M/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 19.9 V/m; Power Drift = -0.062 dB
Peak SAR (extrapolated) = 1.21 W/kg
SAR(1 g) = 0.508 mW/g; SAR(10 g) = 0.215 mW/g
Maximum value of SAR (measured) = 0.767 mW/g


mW/g
0.540
0.432
0.325
0.218
0.110
0.003

Date/Time: 1/03/2008 10:43:27 AM

Test Laboratory: Compliance Certification Services Inc.

802.11b Vertical Bottom Flat Touched mode IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11b WLAN; Frequency: 2437 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.96 mho/m; ε_r = 51.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV4 - SN3552; ConvF(6.95, 6.95, 6.95);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Middle CH, Rate=1M/Area Scan (5x11x1): Measurement grid: dx=15mm, dy=15mm

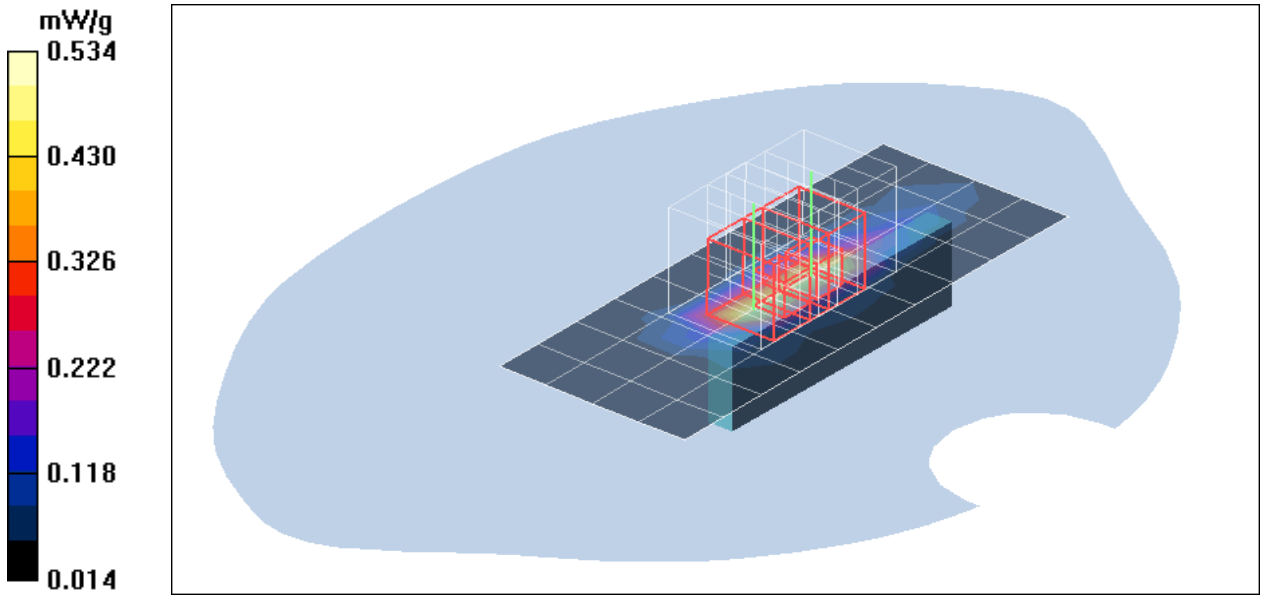
Maximum value of SAR (measured) = 0.511 mW/g

Middle CH, Rate=1M/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 12.6 V/m; Power Drift = -0.015 dB
Peak SAR (extrapolated) = 0.573 W/kg
SAR(1 g) = 0.389 mW/g; SAR(10 g) = 0.198 mW/g
Maximum value of SAR (measured) = 0.534 mW/g

Middle CH, Rate=1M/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 12.6 V/m; Power Drift = -0.015 dB
Peak SAR (extrapolated) = 0.556 W/kg
SAR(1 g) = 0.354 mW/g; SAR(10 g) = 0.167 mW/g
Maximum value of SAR (measured) = 0.499 mW/g


mW/g
0.534
0.430
0.326
0.222
0.118
0.014

Date/Time: 1/03/2008 11:09:44 AM

Test Laboratory: Compliance Certification Services Inc.

802.11g Vertical Edge Touched mode IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11g WLAN; Frequency: 2437 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.96 mho/m; ε_r = 51.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV4 - SN3552; ConvF(6.95, 6.95, 6.95);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Middle CH, Rate=6M/Area Scan (5x17x1): Measurement grid: dx=15mm, dy=15mm

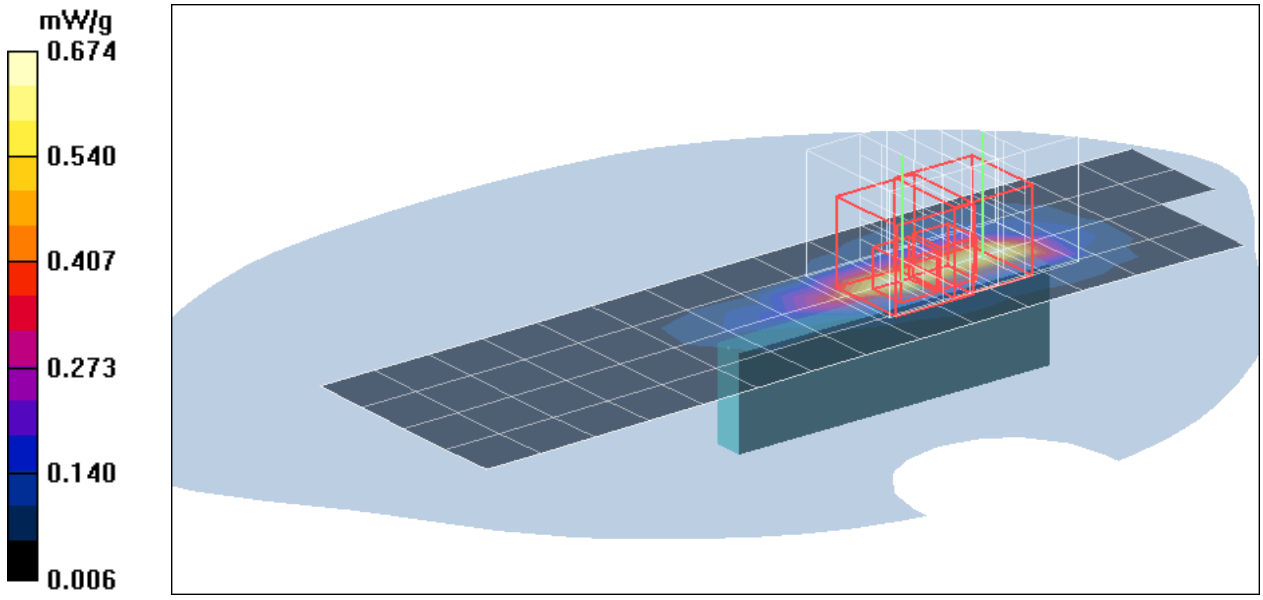
Maximum value of SAR (measured) = 0.679 mW/g

Middle CH, Rate=6M/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 7.49 V/m; Power Drift = -0.082 dB
Peak SAR (extrapolated) = 1.04 W/kg
SAR(1 g) = 0.385 mW/g; SAR(10 g) = 0.160 mW/g
Maximum value of SAR (measured) = 0.674 mW/g

Middle CH, Rate=6M/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 7.49 V/m; Power Drift = -0.082 dB
Peak SAR (extrapolated) = 1.10 W/kg
SAR(1 g) = 0.462 mW/g; SAR(10 g) = 0.202 mW/g
Maximum value of SAR (measured) = 0.702 mW/g


mW/g
0.674
0.540
0.407
0.273
0.140
0.006

Date/Time: 1/03/2008 11:35:44 AM

Test Laboratory: Compliance Certification Services Inc.

802.11g Vertical Edge Touched mode HT20 IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11g WLAN; Frequency: 2437 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.96 mho/m; ε_r = 51.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV4 - SN3552; ConvF(6.95, 6.95, 6.95);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Middle CH, Rate=6M/Area Scan (5x17x1): Measurement grid: dx=15mm, dy=15mm

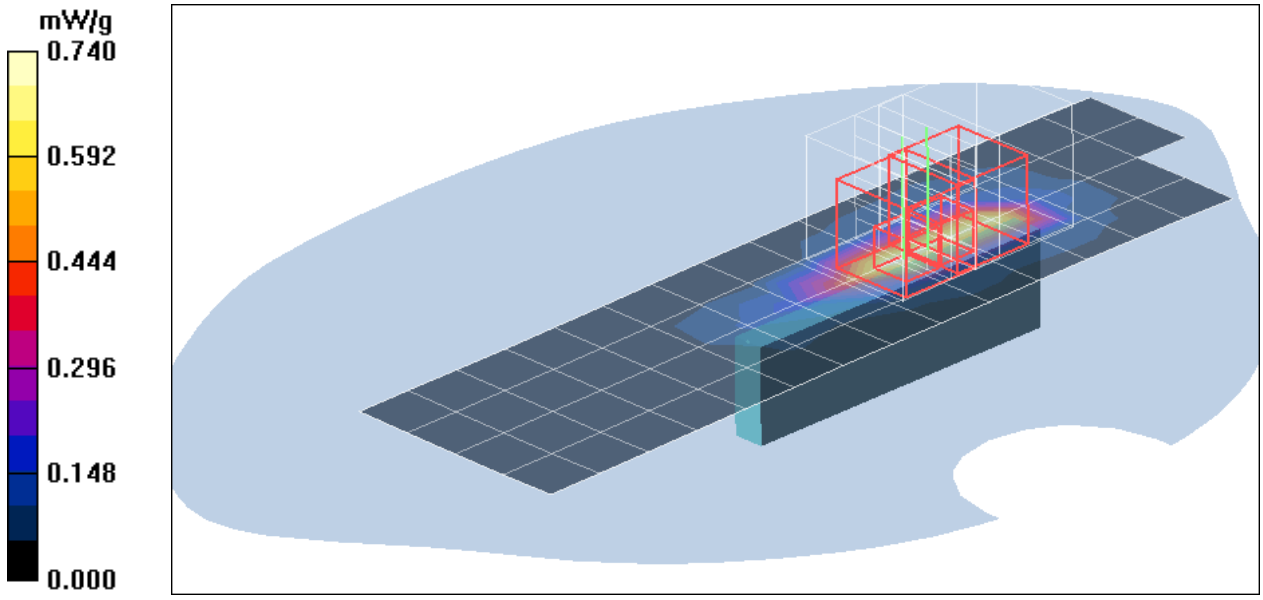
Maximum value of SAR (measured) = 0.740 mW/g

Middle CH, Rate=6M/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 7.73 V/m; Power Drift = -0.005 dB
Peak SAR (extrapolated) = 1.20 W/kg
SAR(1 g) = 0.505 mW/g; SAR(10 g) = 0.221 mW/g
Maximum value of SAR (measured) = 0.761 mW/g

Middle CH, Rate=6M/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 7.73 V/m; Power Drift = -0.005 dB
Peak SAR (extrapolated) = 1.14 W/kg
SAR(1 g) = 0.427 mW/g; SAR(10 g) = 0.170 mW/g
Maximum value of SAR (measured) = 0.722 mW/g


mW/g
0.740
0.592
0.444
0.296
0.148
0.000

Date/Time: 1/03/2008 11:58:40 AM

Test Laboratory: Compliance Certification Services Inc.

802.11g Vertical Edge Touched mode HT40 IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11g WLAN HT40; Frequency: 2437 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.96 mho/m; ε_r = 51.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV4 - SN3552; ConvF(6.95, 6.95, 6.95);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Middle CH, Rate=6M/Area Scan (5x17x1): Measurement grid: dx=15mm, dy=15mm

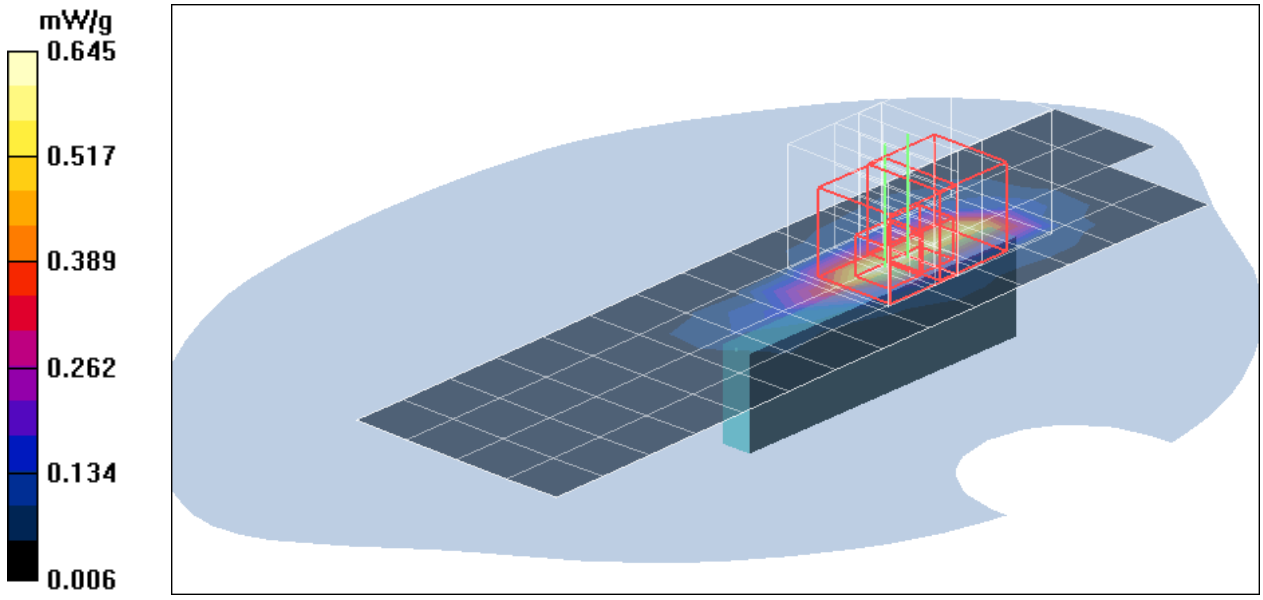
Maximum value of SAR (measured) = 0.637 mW/g

Middle CH, Rate=6M/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 7.73 V/m; Power Drift = -0.130 dB
Peak SAR (extrapolated) = 1.02 W/kg
SAR(1 g) = 0.426 mW/g; SAR(10 g) = 0.188 mW/g
Maximum value of SAR (measured) = 0.645 mW/g

Middle CH, Rate=6M/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 7.73 V/m; Power Drift = -0.130 dB
Peak SAR (extrapolated) = 0.978 W/kg
SAR(1 g) = 0.362 mW/g; SAR(10 g) = 0.147 mW/g
Maximum value of SAR (measured) = 0.616 mW/g


mW/g
0.645
0.517
0.389
0.262
0.134
0.006

Date/Time: 1/03/2008 2:59:06 PM

Test Laboratory: Compliance Certification Services Inc.

802.11b Horizontal Bottom Flat Touched mode Dell 640m

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11b WLAN; Frequency: 2437 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.96 mho/m; ε_r = 51.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

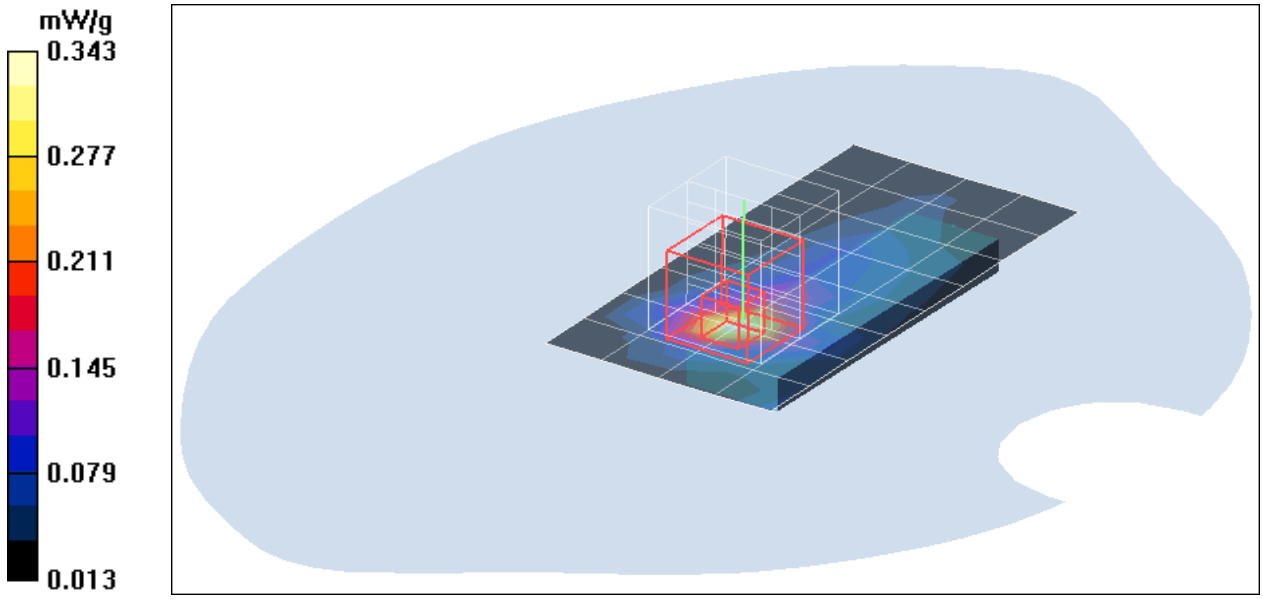
- Probe: EX3DV4 - SN3552; ConvF(6.95, 6.95, 6.95);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Middle CH, Rate=1M/Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.359 mW/g

Middle CH, Rate=1M/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 14.7 V/m; Power Drift = -0.096 dB
Peak SAR (extrapolated) = 0.460 W/kg
SAR(1 g) = 0.294 mW/g; SAR(10 g) = 0.153 mW/g
Maximum value of SAR (measured) = 0.343 mW/g


mW/g
0.343
0.277
0.211
0.145
0.079
0.013

Date/Time: 1/03/2008 3:25:11 PM

Test Laboratory: Compliance Certification Services Inc.

802.11g Horizontal Bottom Flat Touched mode Dell 640m

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

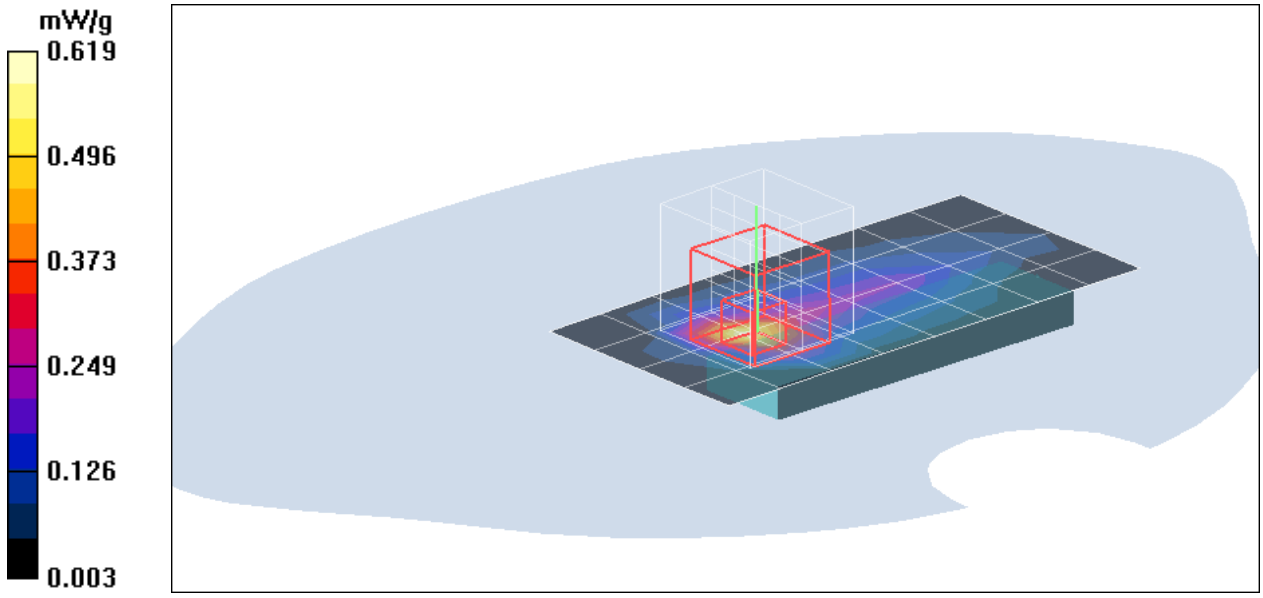
Communication System: IEEE 802.11g WLAN; Frequency: 2437 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.96 mho/m; ε_r = 51.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV4 - SN3552; ConvF(6.95, 6.95, 6.95);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Middle CH, Rate=6M/Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.596 mW/g

Middle CH, Rate=6M/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 19.1 V/m; Power Drift = -0.067 dB
Peak SAR (extrapolated) = 0.956 W/kg
SAR(1 g) = 0.419 mW/g; SAR(10 g) = 0.182 mW/g
Maximum value of SAR (measured) = 0.619 mW/g


mW/g
0.619
0.496
0.373
0.249
0.126
0.003

Date/Time: 1/03/2008 3:50:43 PM

Test Laboratory: Compliance Certification Services Inc.

802.11g Horizontal Bottom Flat Touched mode HT20 Dell 640m

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11g WLAN; Frequency: 2437 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.96 mho/m; ε_r = 51.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

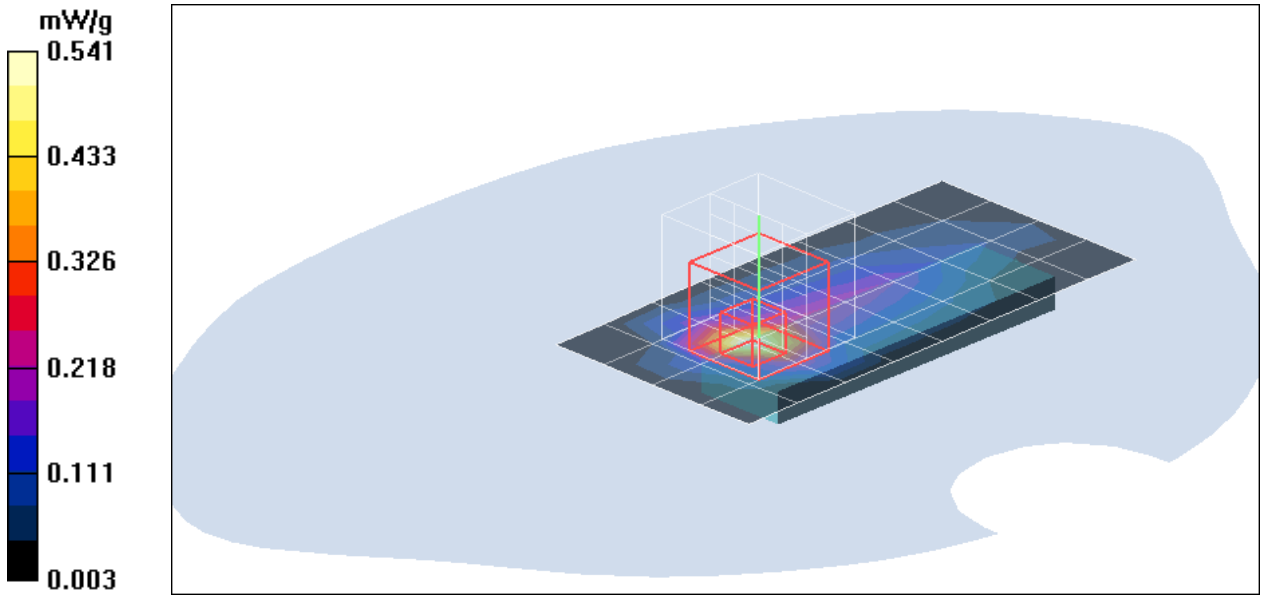
- Probe: EX3DV4 - SN3552; ConvF(6.95, 6.95, 6.95);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Middle CH, Rate=6M/Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.580 mW/g

Middle CH, Rate=6M/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 17.8 V/m; Power Drift = -0.120 dB
Peak SAR (extrapolated) = 0.889 W/kg
SAR(1 g) = 0.388 mW/g; SAR(10 g) = 0.167 mW/g
Maximum value of SAR (measured) = 0.541 mW/g


mW/g
0.541
0.433
0.326
0.218
0.111
0.003

Date/Time: 1/03/2008 4:22:07 PM

Test Laboratory: Compliance Certification Services Inc.

802.11g Horizontal Bottom Flat Touched mode HT40 Dell 640m

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11g WLAN HT40; Frequency: 2437 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.96 mho/m; ε_r = 51.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

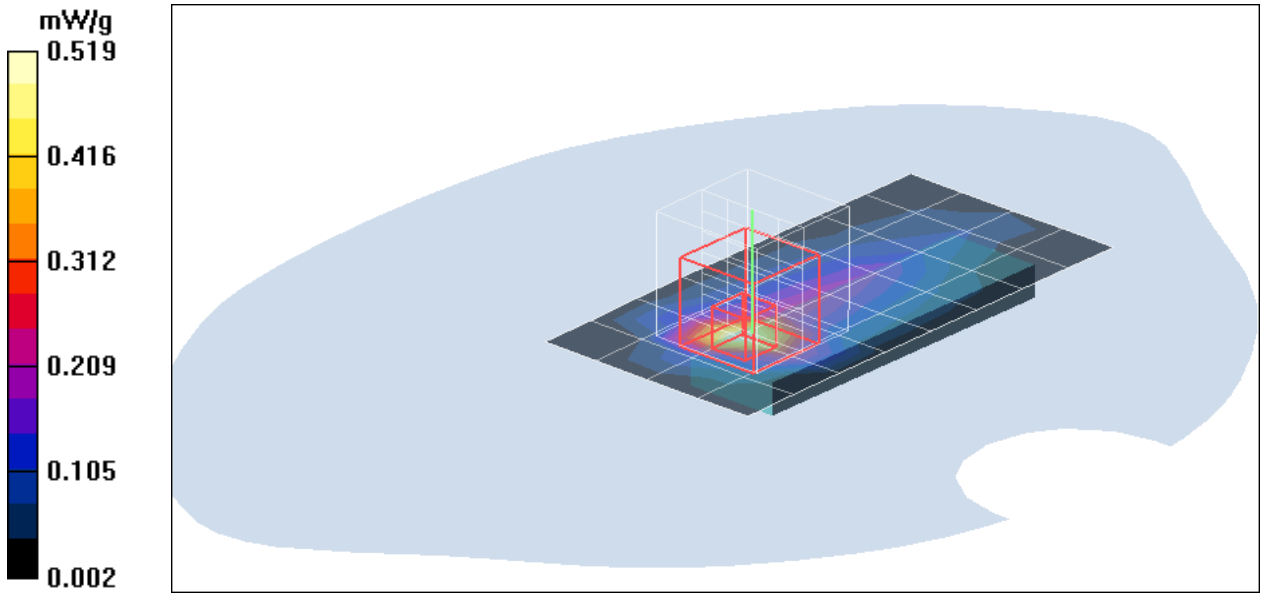
- Probe: EX3DV4 - SN3552; ConvF(6.95, 6.95, 6.95);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Middle CH, Rate=6M/Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.555 mW/g

Middle CH, Rate=6M/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 18.1 V/m; Power Drift = -0.069 dB
Peak SAR (extrapolated) = 0.840 W/kg
SAR(1 g) = 0.369 mW/g; SAR(10 g) = 0.159 mW/g
Maximum value of SAR (measured) = 0.519 mW/g


mW/g
0.519
0.416
0.312
0.209
0.105
0.002

Date/Time: 1/03/2008 1:16:16 PM

Test Laboratory: Compliance Certification Services Inc.

802.11b Horizontal Bottom Flat Touched mode ASUS M5200AE

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11b WLAN; Frequency: 2437 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.96 mho/m; ε_r = 51.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

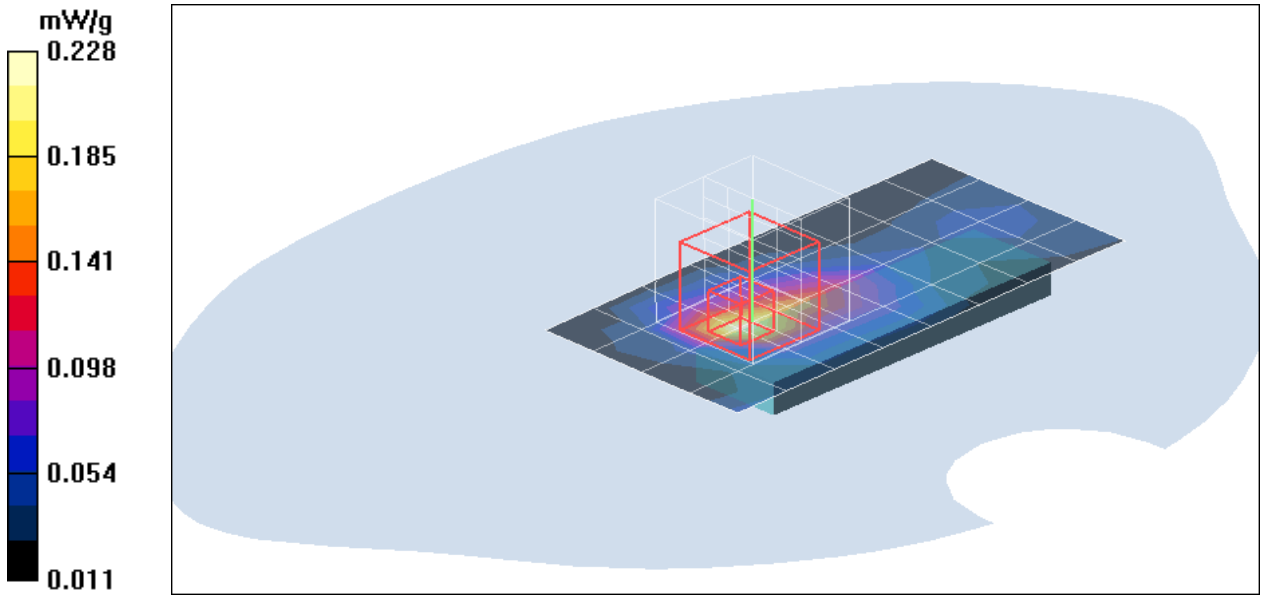
- Probe: EX3DV4 - SN3552; ConvF(6.95, 6.95, 6.95);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Middle CH, Rate=1M/Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.228 mW/g

Middle CH, Rate=1M/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 11.5 V/m; Power Drift = -0.048 dB
Peak SAR (extrapolated) = 0.244 W/kg
SAR(1 g) = 0.180 mW/g; SAR(10 g) = 0.100 mW/g
Maximum value of SAR (measured) = 0.202 mW/g


mW/g
0.228
0.185
0.141
0.098
0.054
0.011

Date/Time: 1/03/2008 1:40:56 PM

Test Laboratory: Compliance Certification Services Inc.

802.11g Horizontal Bottom Flat Touched mode ASUS M5200AE

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11g WLAN; Frequency: 2437 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.96 mho/m; ε_r = 51.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV4 - SN3552; ConvF(6.95, 6.95, 6.95);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Middle CH, Rate=6M/Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm

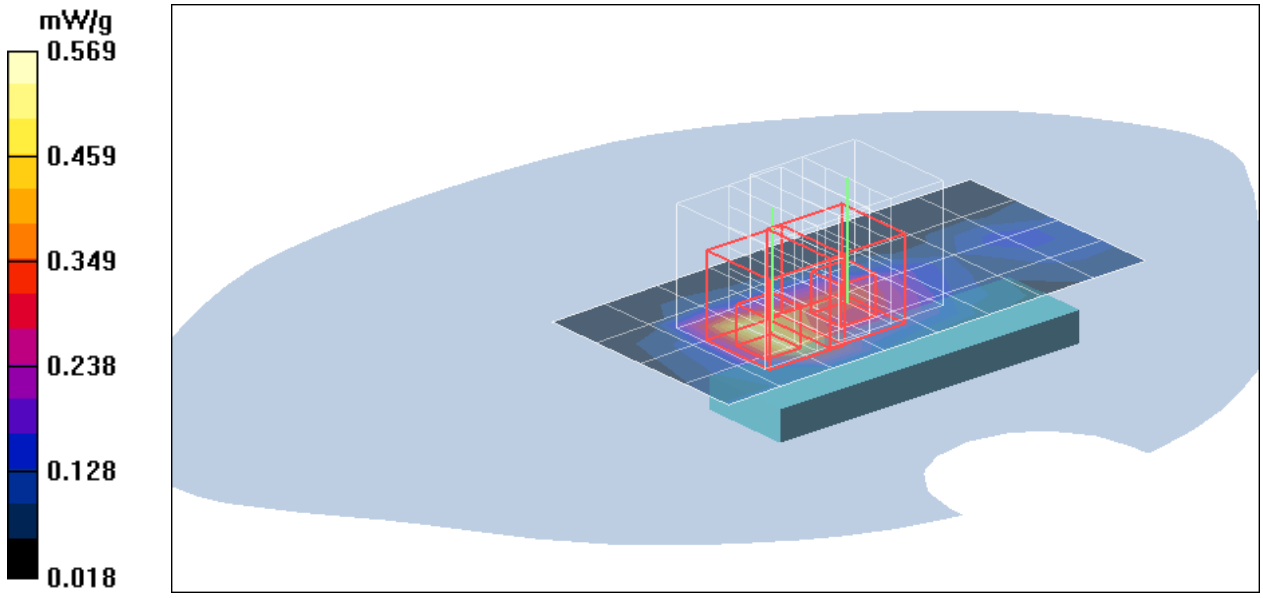
Maximum value of SAR (measured) = 0.509 mW/g

Middle CH, Rate=6M/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 18.0 V/m; Power Drift = -0.074 dB
Peak SAR (extrapolated) = 0.759 W/kg
SAR(1 g) = 0.480 mW/g; SAR(10 g) = 0.258 mW/g
Maximum value of SAR (measured) = 0.569 mW/g

Middle CH, Rate=6M/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 18.0 V/m; Power Drift = -0.174 dB
Peak SAR (extrapolated) = 0.415 W/kg
SAR(1 g) = 0.319 mW/g; SAR(10 g) = 0.199 mW/g
Maximum value of SAR (measured) = 0.387 mW/g


mW/g
0.569
0.459
0.349
0.238
0.128
0.018

Date/Time: 1/03/2008 2:07:01 PM

Test Laboratory: Compliance Certification Services Inc.

802.11g Horizontal Bottom Flat Touched mode ASUS M5200AE HT20

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11g WLAN; Frequency: 2437 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.96 mho/m; ε_r = 51.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

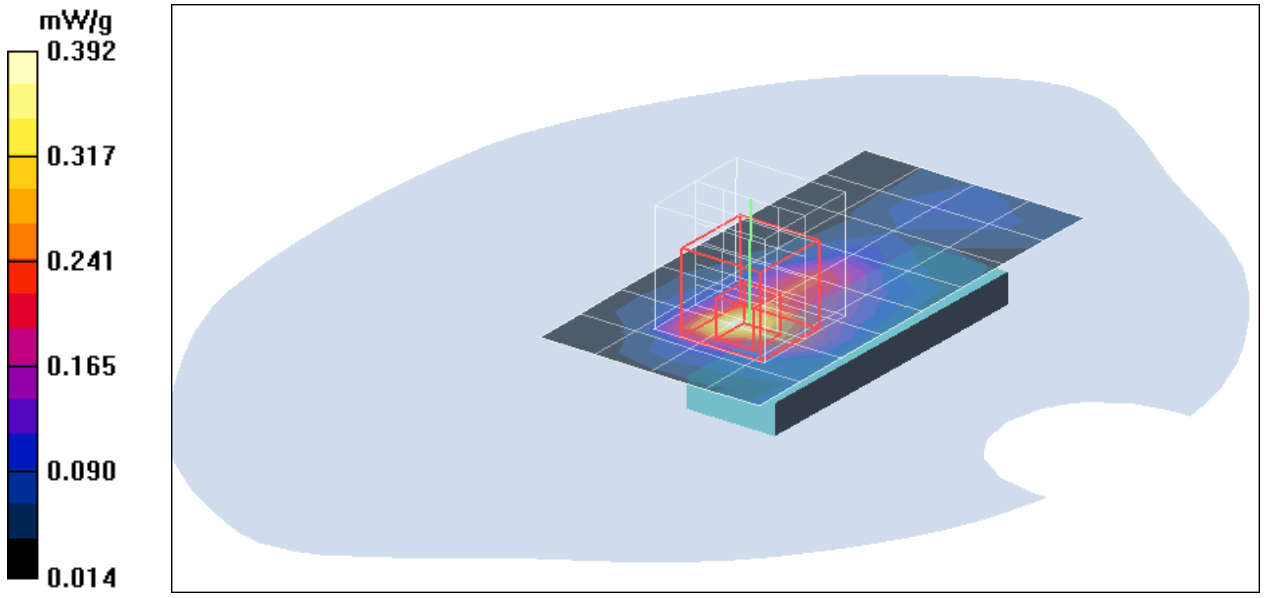
- Probe: EX3DV4 - SN3552; ConvF(6.95, 6.95, 6.95);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Middle CH, Rate=6.5M/Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.392 mW/g

Middle CH, Rate=6.5M/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 14.3 V/m; Power Drift = -0.092 dB
Peak SAR (extrapolated) = 0.434 W/kg
SAR(1 g) = 0.293 mW/g; SAR(10 g) = 0.167 mW/g
Maximum value of SAR (measured) = 0.344 mW/g


mW/g
0.392
0.317
0.241
0.165
0.090
0.014

Date/Time: 1/03/2008 2:35:55 PM

Test Laboratory: Compliance Certification Services Inc.

802.11g Horizontal Bottom Flat Touched mode ASUS M5200AE HT40

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11g WLAN HT40; Frequency: 2437 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.96 mho/m; ε_r = 51.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

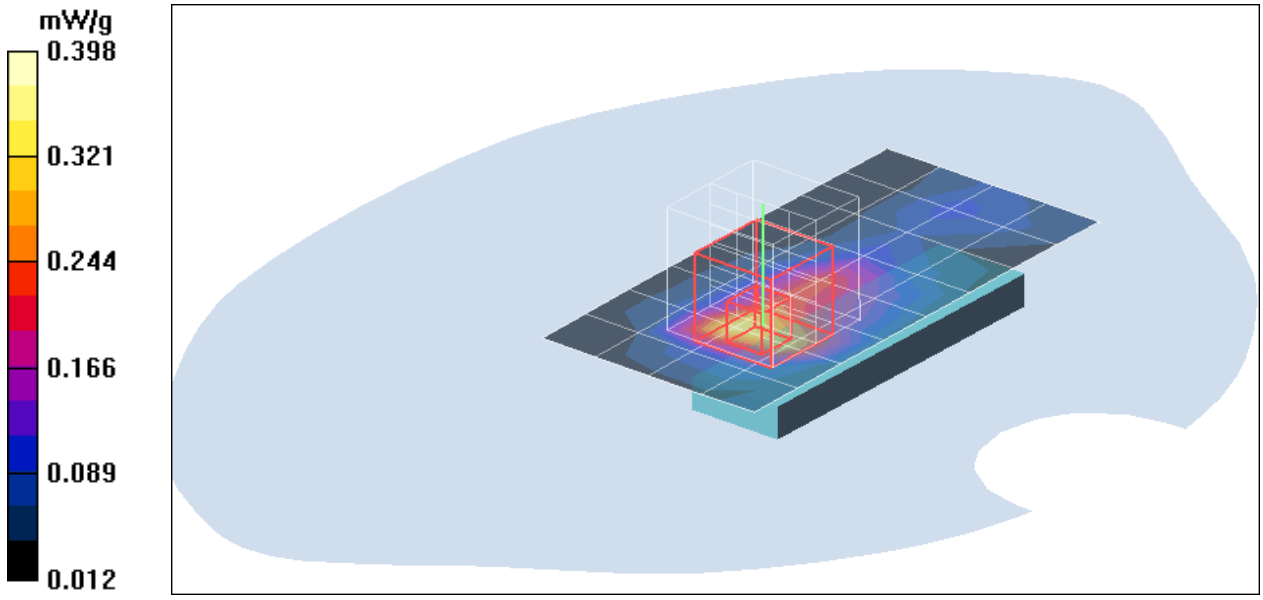
- Probe: EX3DV4 - SN3552; ConvF(6.95, 6.95, 6.95);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Middle CH, Rate=13.5M/Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.355 mW/g

Middle CH, Rate=13.5M/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 15.2 V/m; Power Drift = -0.106 dB
Peak SAR (extrapolated) = 0.451 W/kg
SAR(1 g) = 0.314 mW/g; SAR(10 g) = 0.167 mW/g
Maximum value of SAR (measured) = 0.398 mW/g


mW/g
0.398
0.321
0.244
0.166
0.089
0.012

Date/Time: 1/07/2008 09:36:35 AM

Test Laboratory: Compliance Certification Services Inc.

802.11a Horizontal Bottom Flat Touched mode UNII IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5220 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5220 MHz; σ = 5.39 mho/m; ε_r = 48.3; ρ = 1000 kg/m^3

Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

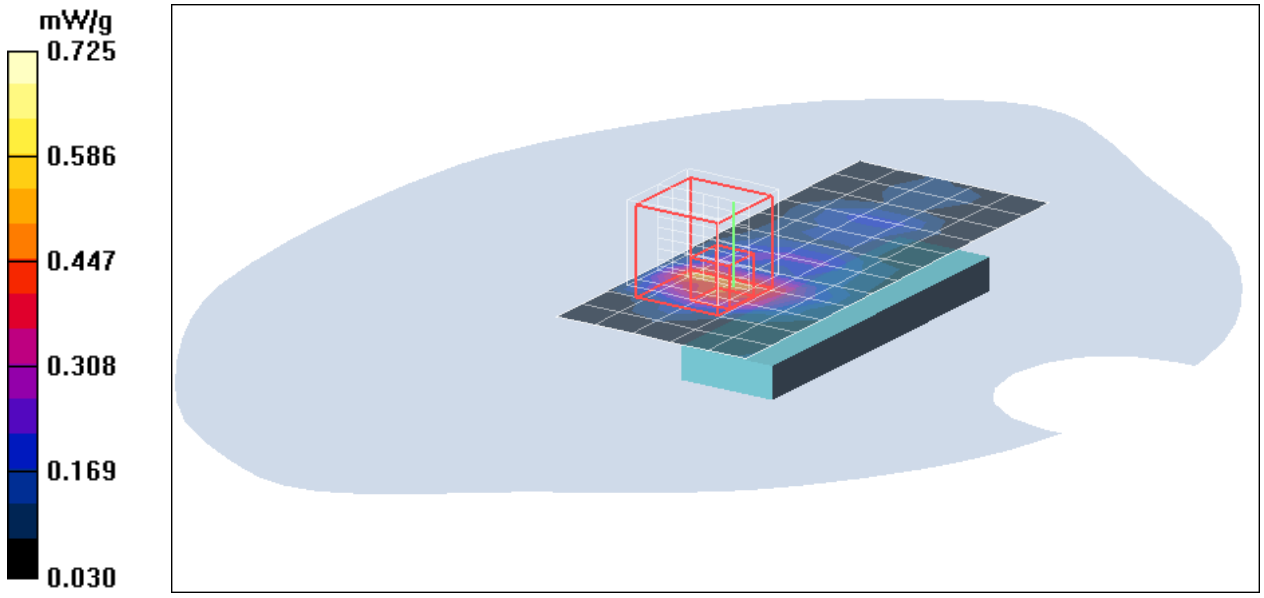
- Probe: EX3DV3 - SN3504; ConvF(4.34, 4.34, 4.34);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

UNII Middle CH5220 Rate=6M bit/Area Scan (6x13x1):

Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.527 mW/g

UNII Middle CH5220 Rate=6M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 10.5 V/m; Power Drift = -0.131 dB
Peak SAR (extrapolated) = 1.05 W/kg
SAR(1 g) = 0.476 mW/g; SAR(10 g) = 0.194 mW/g
Maximum value of SAR (measured) = 0.725 mW/g


mW/g
0.725
0.586
0.447
0.308
0.169
0.030

Date/Time: 1/07/2008 10:16:39 AM

Test Laboratory: Compliance Certification Services Inc.

802.11a Horizontal Bottom Flat Touched mode UNII IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5280 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5280 MHz; σ = 5.48 mho/m; ε_r = 48.1; ρ = 1000 kg/m^3

Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

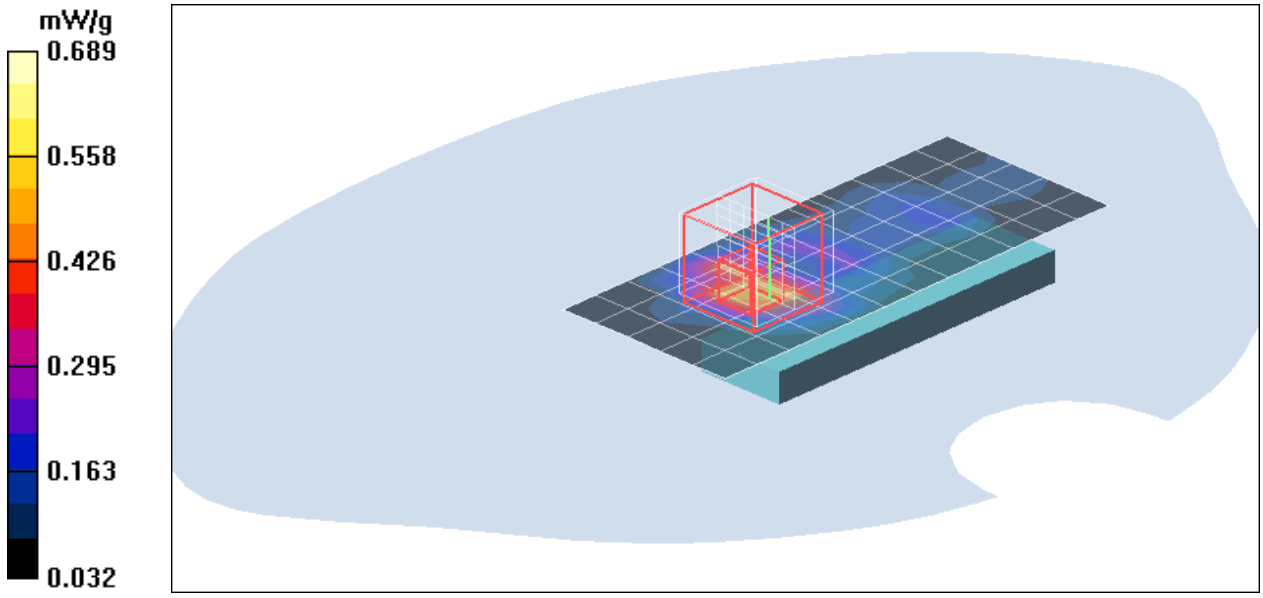
- Probe: EX3DV3 - SN3504; ConvF(4.08, 4.08, 4.08);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

UNII Middle CH5280 Rate=6M bit/Area Scan (6x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.503 mW/g

UNII Middle CH5280 Rate=6M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 9.69 V/m; Power Drift = -0.008 dB
Peak SAR (extrapolated) = 0.853 W/kg
SAR(1 g) = 0.454 mW/g; SAR(10 g) = 0.197 mW/g
Maximum value of SAR (measured) = 0.689 mW/g


mW/g
0.689
0.558
0.426
0.295
0.163
0.032

Date/Time: 1/07/2008 10:55:40 AM

Test Laboratory: Compliance Certification Services Inc.

802.11a Horizontal Bottom Flat Touched mode DTS IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5600 MHz; σ = 5.96 mho/m; ε_r = 47.5; ρ = 1000 kg/m^3

Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(4.09, 4.09, 4.09);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

DTS Middle CH5600 Rate=6M bit/Area Scan (6x13x1): Measurement grid: dx=10mm, dy=10mm

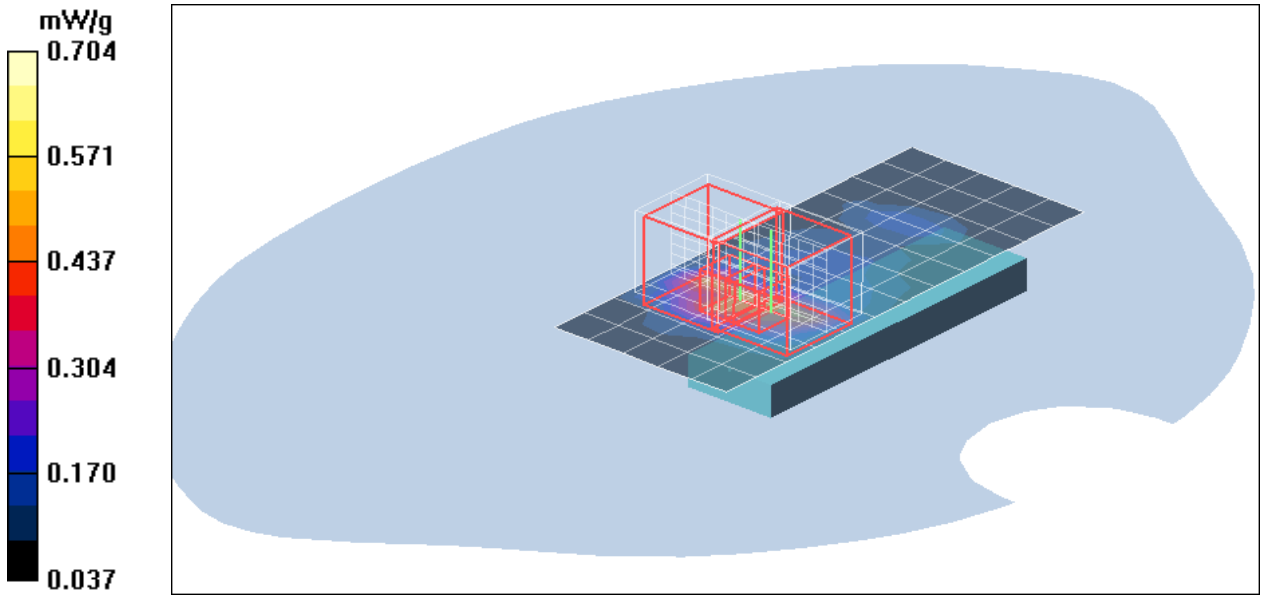
Maximum value of SAR (measured) = 0.485 mW/g

DTS Middle CH5600 Rate=6M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 9.64 V/m; Power Drift = -0.150 dB
Peak SAR (extrapolated) = 0.918 W/kg
SAR(1 g) = 0.438 mW/g; SAR(10 g) = 0.169 mW/g
Maximum value of SAR (measured) = 0.704 mW/g

DTS Middle CH5600 Rate=6M bit/Zoom Scan (7x7x9)/Cube 1:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 9.64 V/m; Power Drift = -0.150 dB
Peak SAR (extrapolated) = 0.823 W/kg
SAR(1 g) = 0.399 mW/g; SAR(10 g) = 0.159 mW/g
Maximum value of SAR (measured) = 0.640 mW/g


mW/g
0.704
0.571
0.437
0.304
0.170
0.037

Date/Time: 1/07/2008 12:33:09 PM

Test Laboratory: Compliance Certification Services Inc.

802.11a Horizontal Bottom Flat Touched mode DTS IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5785 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5785 MHz; σ = 6.21 mho/m; ε_r = 47.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(4.10, 4.10, 4.10);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

DTS High CH5785 Rate=6M bit/Area Scan (6x13x1): Measurement grid: dx=10mm, dy=10mm

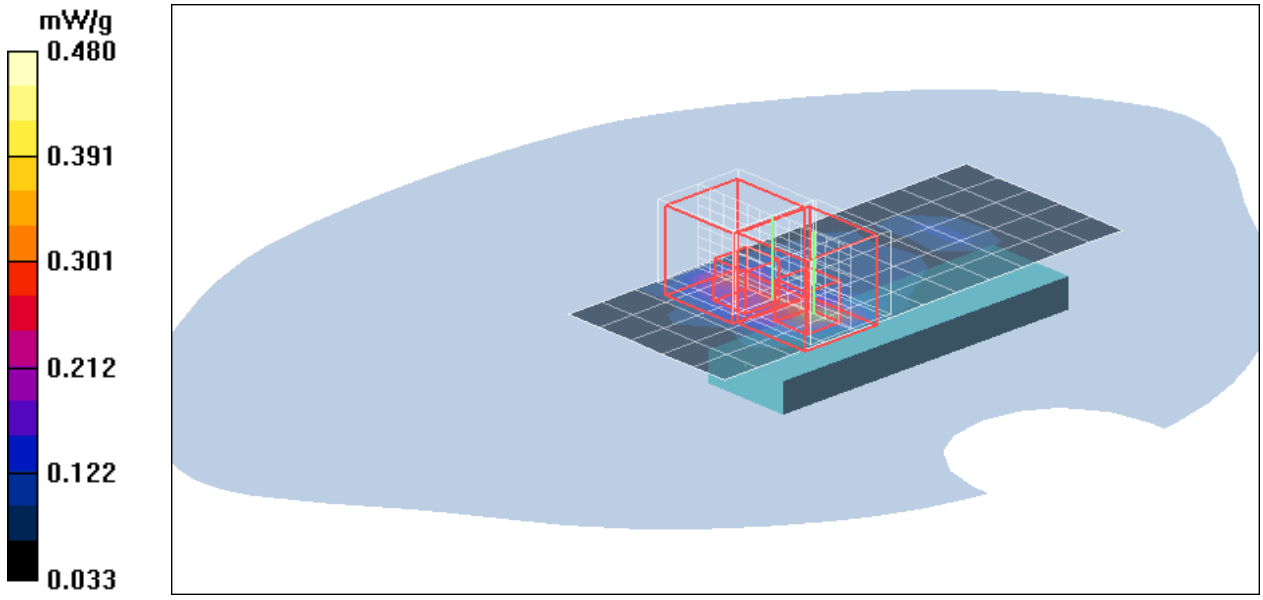
Maximum value of SAR (measured) = 0.360 mW/g

DTS High CH5785 Rate=6M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 5.78 V/m; Power Drift = -0.111 dB
Peak SAR (extrapolated) = 0.650 W/kg
SAR(1 g) = 0.275 mW/g; SAR(10 g) = 0.113 mW/g
Maximum value of SAR (measured) = 0.480 mW/g

DTS High CH5785 Rate=6M bit/Zoom Scan (7x7x9)/Cube 1:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 5.78 V/m; Power Drift = -0.111 dB
Peak SAR (extrapolated) = 0.417 W/kg
SAR(1 g) = 0.244 mW/g; SAR(10 g) = 0.111 mW/g
Maximum value of SAR (measured) = 0.372 mW/g


mW/g
0.480
0.391
0.301
0.212
0.122
0.033

Date/Time: 1/07/2008 1:12:04 PM

Test Laboratory: Compliance Certification Services Inc.

802.11a Horizontal Bottom Flat Touched mode UNII HT20 IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5220 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5220 MHz; σ = 5.39 mho/m; ε_r = 48.3; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

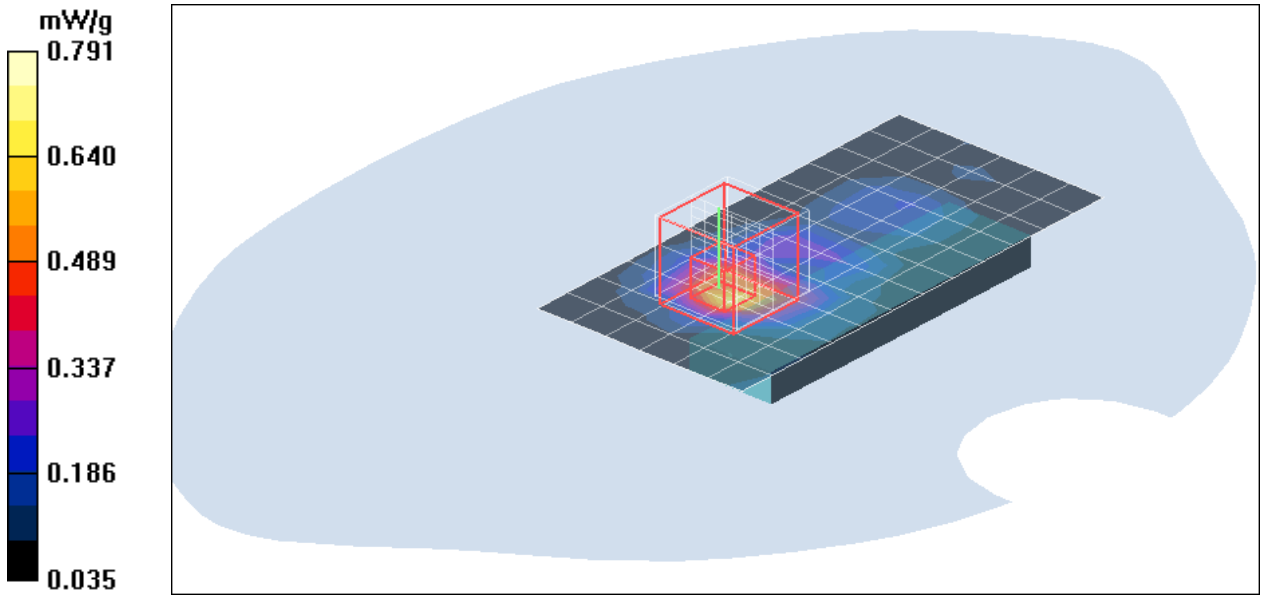
- Probe: EX3DV3 - SN3504; ConvF(4.34, 4.34, 4.34);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

UNII Middle CH5220 Rate=6.5M bit/Area Scan (7x13x1):

Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.704 mW/g

UNII Middle CH5220 Rate=6.5M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 12.5 V/m; Power Drift = -0.056 dB
Peak SAR (extrapolated) = 0.949 W/kg
SAR(1 g) = 0.499 mW/g; SAR(10 g) = 0.215 mW/g
Maximum value of SAR (measured) = 0.791 mW/g


mW/g
0.791
0.640
0.489
0.337
0.186
0.035

Date/Time: 1/07/2008 1:52:08 PM

Test Laboratory: Compliance Certification Services Inc.

802.11a Horizontal Bottom Flat Touched mode UNII HT20 IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5280 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5280 MHz; σ = 5.48 mho/m; ε_r = 48.1; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

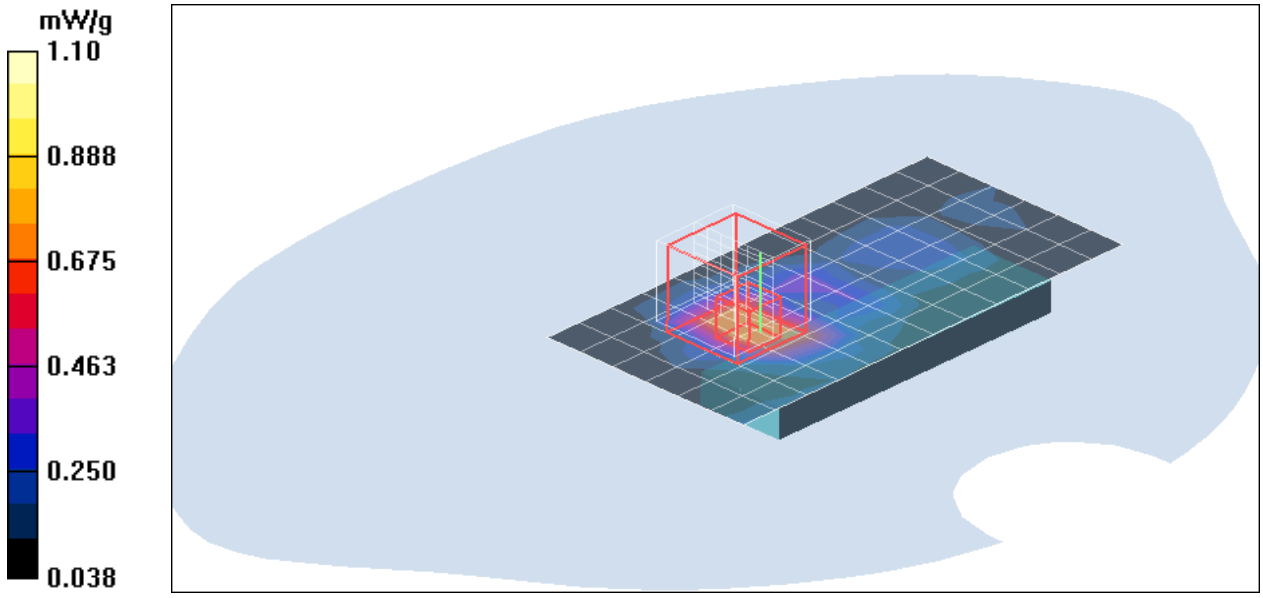
- Probe: EX3DV3 - SN3504; ConvF(4.08, 4.08, 4.08);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

UNII Middle CH5280 Rate=6.5M bit/Area Scan (7x13x1):

Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.765 mW/g

UNII Middle CH5280 Rate=6.5M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 15.7 V/m; Power Drift = -0.062 dB
Peak SAR (extrapolated) = 1.39 W/kg
SAR(1 g) = 0.694 mW/g; SAR(10 g) = 0.283 mW/g
Maximum value of SAR (measured) = 1.10 mW/g


mW/g
1.10
0.888
0.675
0.463
0.250
0.038

Date/Time: 1/07/2008 2:31:16 PM

Test Laboratory: Compliance Certification Services Inc.

802.11a Horizontal Bottom Flat Touched mode DTS HT20 IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5600 MHz; σ = 5.96 mho/m; ε_r = 47.5; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

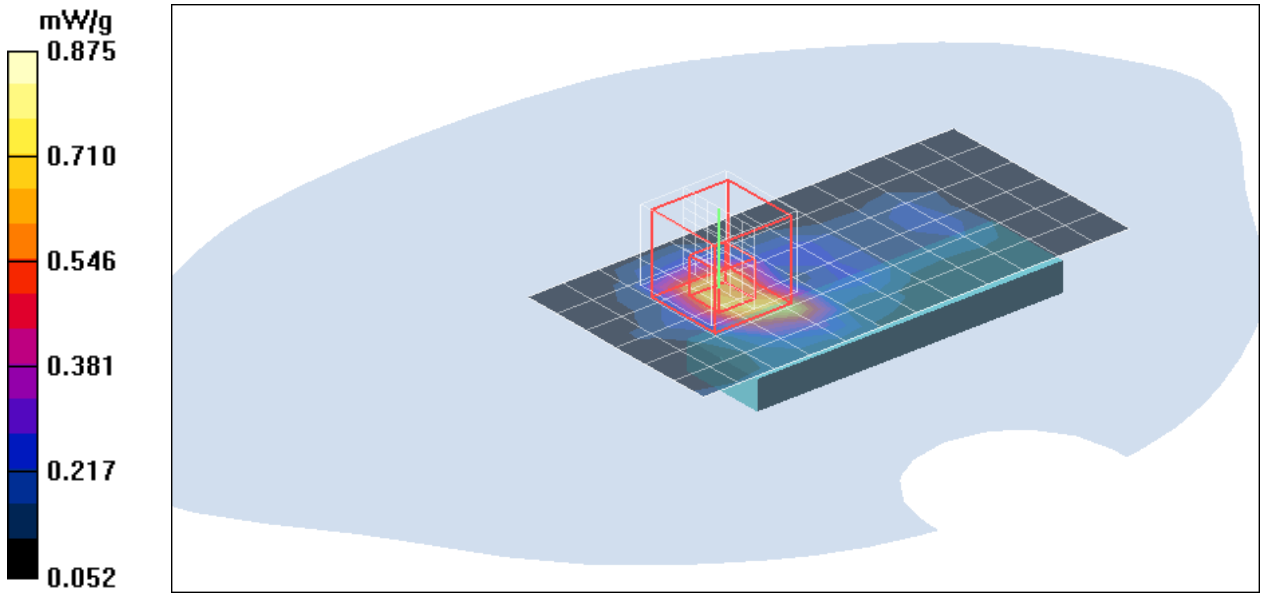
- Probe: EX3DV3 - SN3504; ConvF(4.09, 4.09, 4.09);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

DTS Middle CH5600 Rate=6.5M bit/Area Scan (7x13x1):

Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.751 mW/g

DTS Middle CH5600 Rate=6.5M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 12.0 V/m; Power Drift = -0.026 dB
Peak SAR (extrapolated) = 1.27 W/kg
SAR(1 g) = 0.586 mW/g; SAR(10 g) = 0.266 mW/g
Maximum value of SAR (measured) = 0.875 mW/g


mW/g
0.875
0.710
0.546
0.381
0.217
0.052

Date/Time: 1/07/2008 3:12:48 PM

Test Laboratory: Compliance Certification Services Inc.

802.11a Horizontal Bottom Flat Touched mode DTS HT20 IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5785 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5785 MHz; σ = 6.21 mho/m; ε_r = 47.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(4.10, 4.10, 4.10);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

DTS High CH5785 Rate=6.5M bit/Area Scan (7x13x1): Measurement grid: dx=10mm, dy=10mm

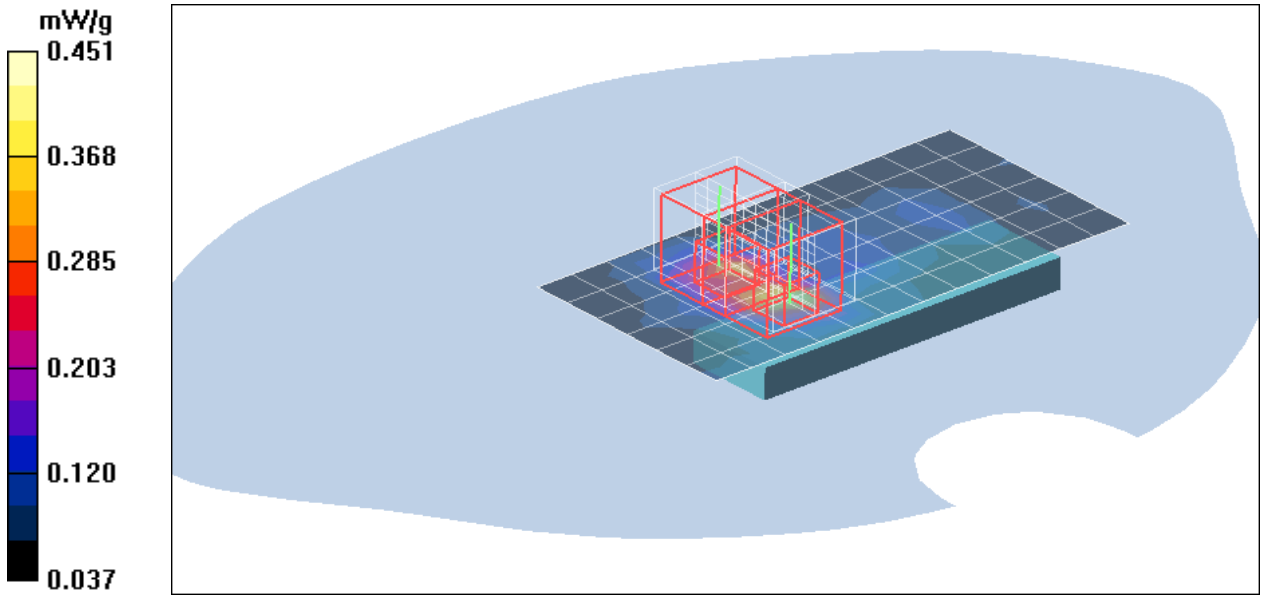
Maximum value of SAR (measured) = 0.433 mW/g

DTS High CH5785 Rate=6.5M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 7.02 V/m; Power Drift = -0.162 dB
Peak SAR (extrapolated) = 0.618 W/kg
SAR(1 g) = 0.274 mW/g; SAR(10 g) = 0.125 mW/g
Maximum value of SAR (measured) = 0.451 mW/g

DTS High CH5785 Rate=6.5M bit/Zoom Scan (7x7x9)/Cube 1:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 7.02 V/m; Power Drift = -0.162 dB
Peak SAR (extrapolated) = 0.443 W/kg
SAR(1 g) = 0.232 mW/g; SAR(10 g) = 0.115 mW/g
Maximum value of SAR (measured) = 0.364 mW/g


mW/g
0.451
0.368
0.285
0.203
0.120
0.037

Date/Time: 1/07/2008 5:40:48 PM

Test Laboratory: Compliance Certification Services Inc.

802.11a Horizontal Bottom Flat Touched mode UNII HT40 IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5190 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5190 MHz; σ = 5.31 mho/m; ε_r = 48.3; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.6 deg C;Liquid Temperature:23.6 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(4.34, 4.34, 4.34);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

UNII Low CH5190 Rate=13.5M bit/Area Scan (7x13x1):

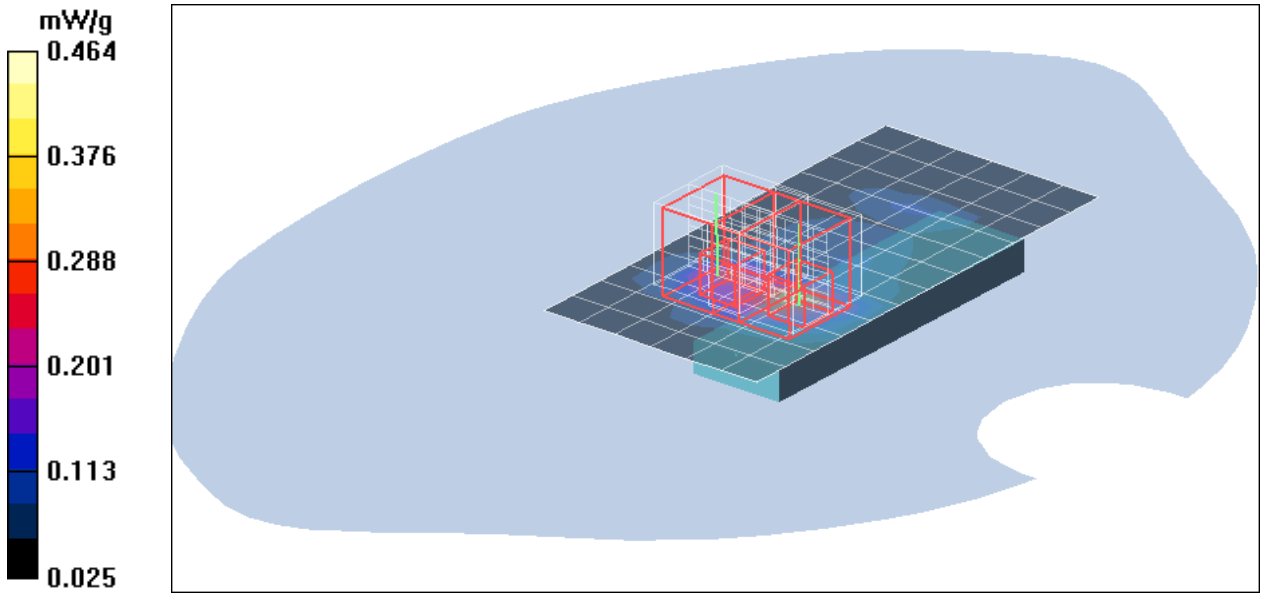
Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.340 mW/g

UNII Low CH5190 Rate=13.5M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 6.55 V/m; Power Drift = -0.039 dB
Peak SAR (extrapolated) = 0.731 W/kg
SAR(1 g) = 0.258 mW/g; SAR(10 g) = 0.103 mW/g
Maximum value of SAR (measured) = 0.464 mW/g

UNII Low CH5190 Rate=13.5M bit/Zoom Scan (7x7x9)/Cube 1:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 6.55 V/m; Power Drift = -0.039 dB
Peak SAR (extrapolated) = 0.411 W/kg
SAR(1 g) = 0.194 mW/g; SAR(10 g) = 0.090 mW/g
Maximum value of SAR (measured) = 0.310 mW/g


mW/g
0.464
0.376
0.288
0.201
0.113
0.025

Date/Time: 1/07/2008 3:51:13 PM

Test Laboratory: Compliance Certification Services Inc.

802.11a Horizontal Bottom Flat Touched mode UNII HT40 IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5270 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5270 MHz; σ = 5.46 mho/m; ε_r = 48.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

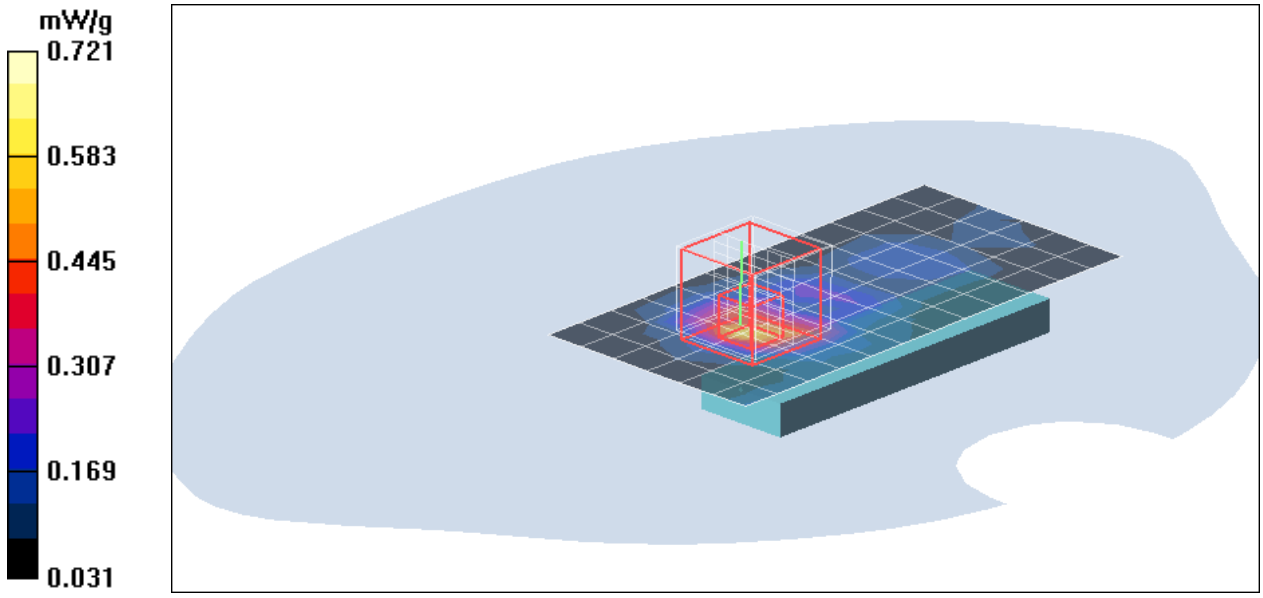
- Probe: EX3DV3 - SN3504; ConvF(4.08, 4.08, 4.08);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

UNII Middle CH5270 Rate=13.5M bit/Area Scan (7x13x1):

Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.601 mW/g

UNII Middle CH5270 Rate=13.5M bit/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 12.4 V/m; Power Drift = -0.081 dB
Peak SAR (extrapolated) = 0.970 W/kg
SAR(1 g) = 0.448 mW/g; SAR(10 g) = 0.187 mW/g
Maximum value of SAR (measured) = 0.721 mW/g


mW/g
0.721
0.583
0.445
0.307
0.169
0.031

Date/Time: 1/07/2008 4:30:48 PM

Test Laboratory: Compliance Certification Services Inc.

802.11a Horizontal Bottom Flat Touched mode DTS HT40 IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5590 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5590 MHz; σ = 5.92 mho/m; ε_r = 47.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(4.09, 4.09, 4.09);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

DTS Middle CH5590 Rate=13.5M bit/Area Scan (7x13x1):

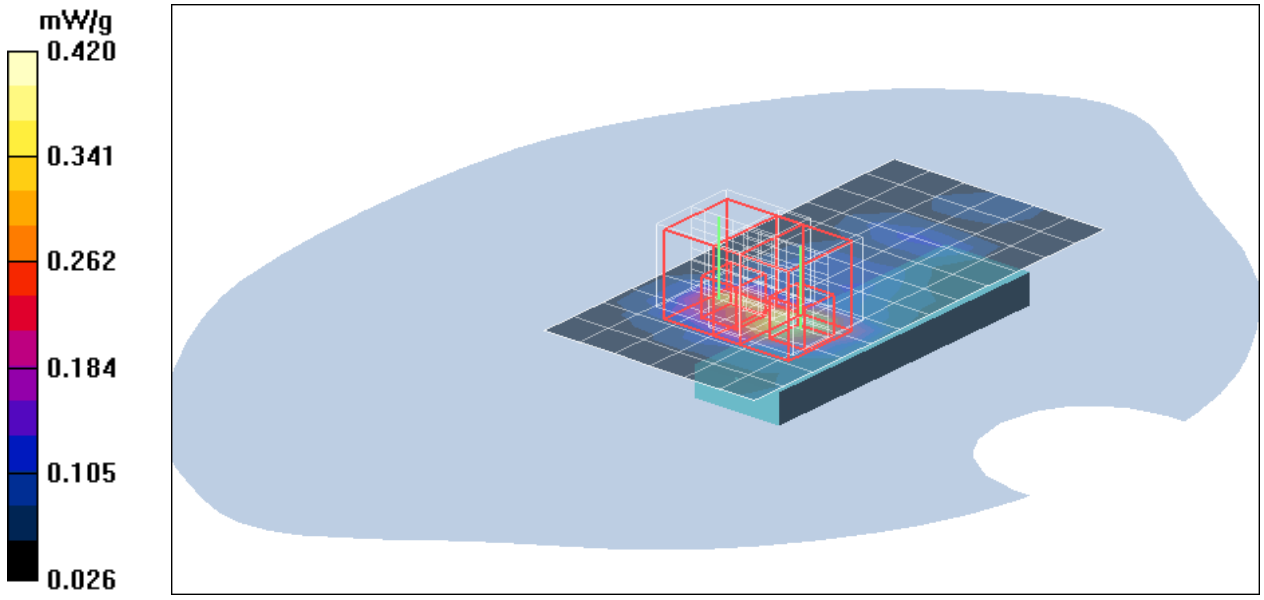
Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.420 mW/g

DTS Middle CH5590 Rate=13.5M bit/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 7.66 V/m; Power Drift = -0.072 dB
Peak SAR (extrapolated) = 0.903 W/kg
SAR(1 g) = 0.319 mW/g; SAR(10 g) = 0.127 mW/g
Maximum value of SAR (measured) = 0.573 mW/g

DTS Middle CH5590 Rate=13.5M bit/Zoom Scan (7x7x9)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 7.66 V/m; Power Drift = -0.072 dB
Peak SAR (extrapolated) = 0.508 W/kg
SAR(1 g) = 0.240 mW/g; SAR(10 g) = 0.112 mW/g
Maximum value of SAR (measured) = 0.383 mW/g


mW/g
0.420
0.341
0.262
0.184
0.105
0.026

Date/Time: 1/07/2008 5:09:27 PM

Test Laboratory: Compliance Certification Services Inc.

802.11a Horizontal Bottom Flat Touched mode DTS HT40 IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5755 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5755 MHz; σ = 6.18 mho/m; ε_r = 47.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(4.10, 4.10, 4.10);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

DTS Low CH5755 Rate=13.5M bit/Area Scan (7x13x1): Measurement grid: dx=10mm, dy=10mm

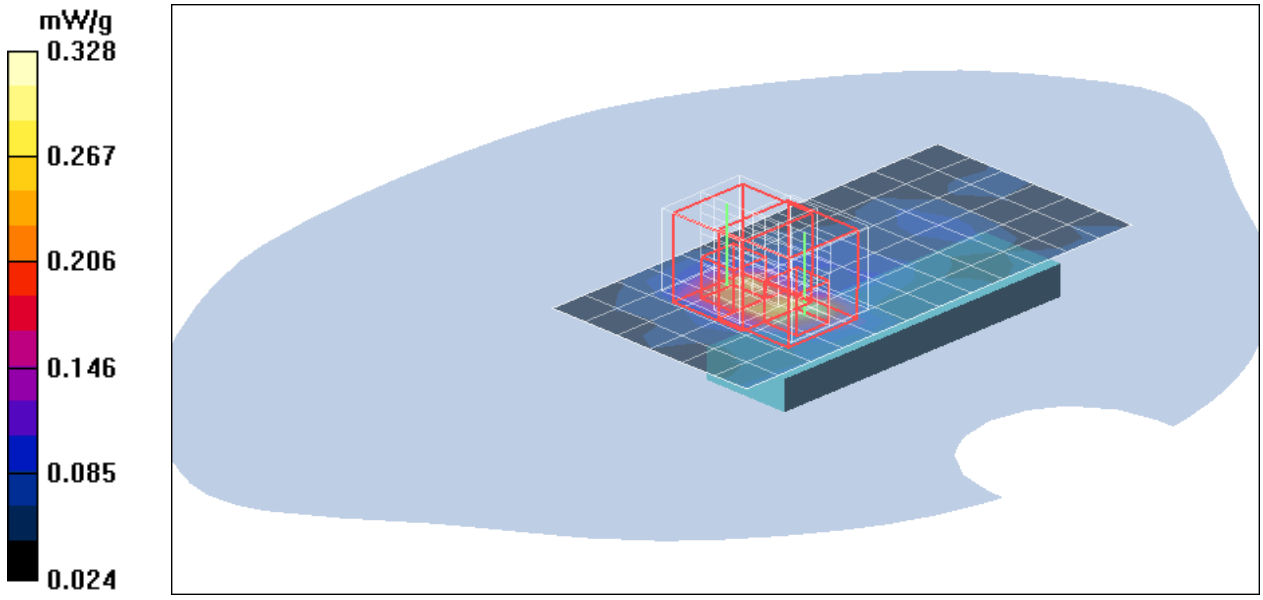
Maximum value of SAR (measured) = 0.294 mW/g

DTS Low CH5755 Rate=13.5M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 7.14 V/m; Power Drift = -0.117 dB
Peak SAR (extrapolated) = 0.443 W/kg
SAR(1 g) = 0.197 mW/g; SAR(10 g) = 0.094 mW/g
Maximum value of SAR (measured) = 0.328 mW/g

DTS Low CH5755 Rate=13.5M bit/Zoom Scan (7x7x9)/Cube 1:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 7.14 V/m; Power Drift = -0.117 dB
Peak SAR (extrapolated) = 0.468 W/kg
SAR(1 g) = 0.206 mW/g; SAR(10 g) = 0.099 mW/g
Maximum value of SAR (measured) = 0.317 mW/g


mW/g
0.328
0.267
0.206
0.146
0.085
0.024

Date/Time: 1/07/2008 5:01:48 PM

Test Laboratory: Compliance Certification Services Inc.

802.11a Horizontal Bottom Flat Touched mode DTS HT40 IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5795 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5795 MHz; σ = 6.22 mho/m; ε_r = 47.1; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(4.10, 4.10, 4.10);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

DTS High CH5795 Rate=13.5M bit/Area Scan (7x13x1): Measurement grid: dx=10mm, dy=10mm

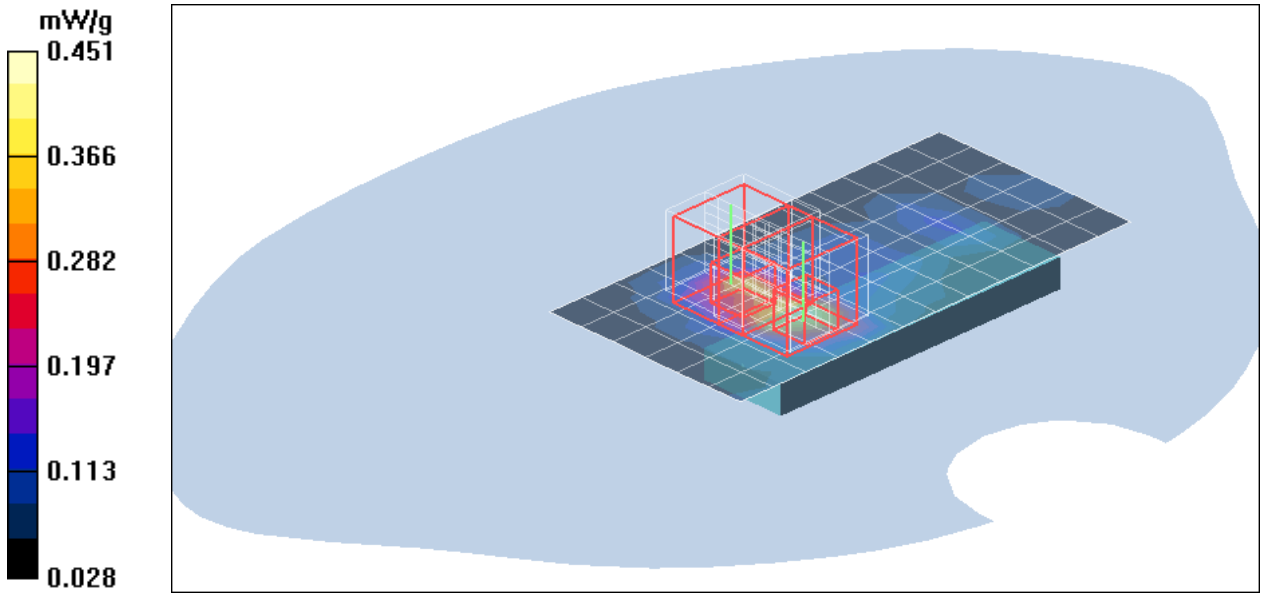
Maximum value of SAR (measured) = 0.451 mW/g

DTS High CH5795 Rate=13.5M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 7.26 V/m; Power Drift = -0.034 dB
Peak SAR (extrapolated) = 0.970 W/kg
SAR(1 g) = 0.342 mW/g; SAR(10 g) = 0.136 mW/g
Maximum value of SAR (measured) = 0.615 mW/g

DTS High CH5795 Rate=13.5M bit/Zoom Scan (7x7x9)/Cube 1:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 7.26 V/m; Power Drift = -0.034 dB
Peak SAR (extrapolated) = 0.545 W/kg
SAR(1 g) = 0.258 mW/g; SAR(10 g) = 0.120 mW/g
Maximum value of SAR (measured) = 0.411 mW/g


mW/g
0.451
0.366
0.282
0.197
0.113
0.028

Date/Time: 1/07/2008 6:19:33 PM

Test Laboratory: Compliance Certification Services Inc.

802.11a Vertical Edge Touched mode UNII IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5180 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5180 MHz; σ = 5.33 mho/m; ε_r = 48.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

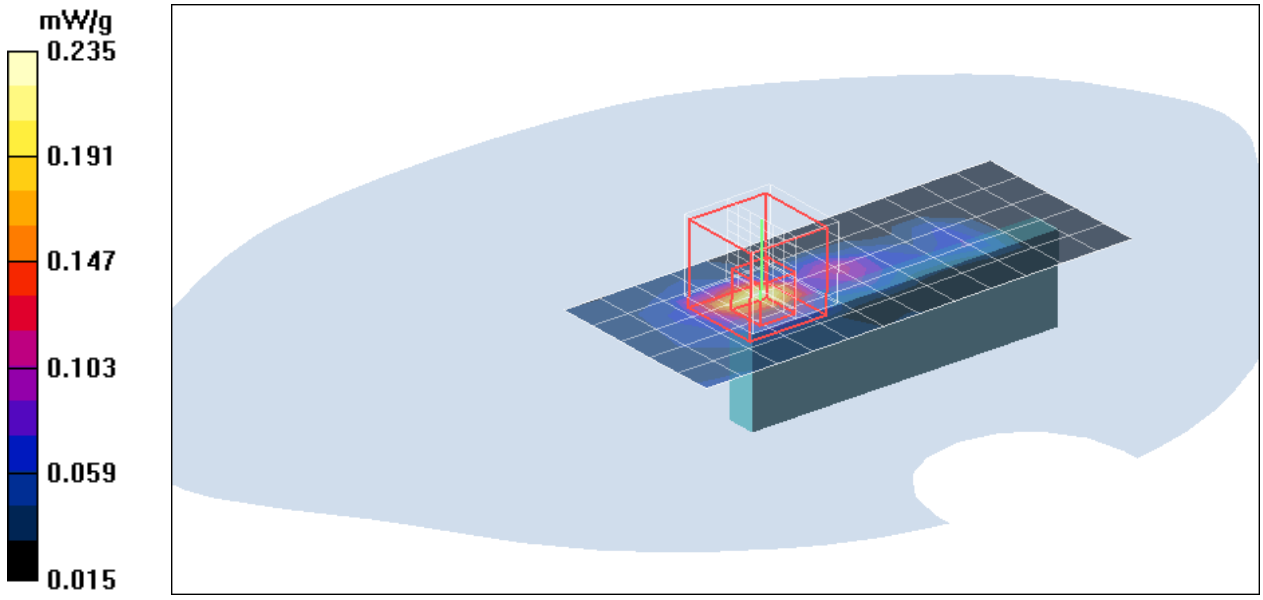
- Probe: EX3DV3 - SN3504; ConvF(4.34, 4.34, 4.34);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

UNII Low CH5180 Rate=6M bit/Area Scan (6x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.235 mW/g

UNII Low CH5180 Rate=6M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 6.91 V/m; Power Drift = -0.098 dB
Peak SAR (extrapolated) = 0.783 W/kg
SAR(1 g) = 0.233 mW/g; SAR(10 g) = 0.074 mW/g
Maximum value of SAR (measured) = 0.473 mW/g


mW/g
0.235
0.191
0.147
0.103
0.059
0.015

Date/Time: 1/07/2008 6:46:41 PM

Test Laboratory: Compliance Certification Services Inc.

802.11a Vertical Edge Touched mode UNII IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5220 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5220 MHz; σ = 5.39 mho/m; ε_r = 48.3; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

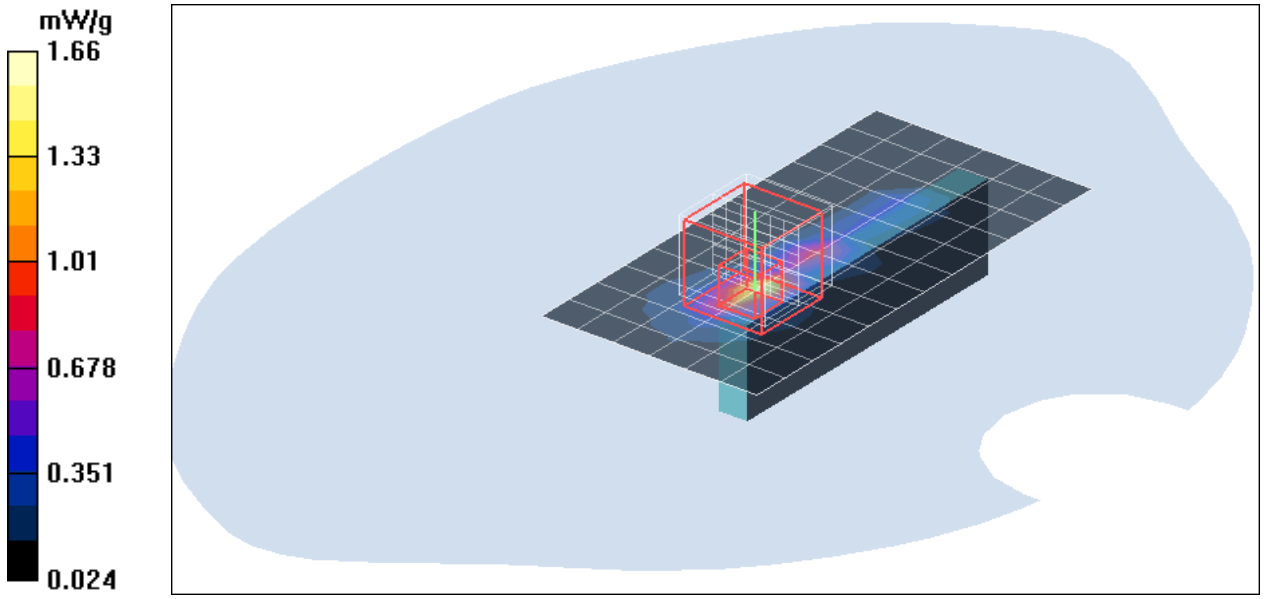
- Probe: EX3DV3 - SN3504; ConvF(4.34, 4.34, 4.34);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

UNII Middle CH5220 Rate=6M bit/Area Scan (7x13x1): Measurement grid: dx=10mm, dy=10mm

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

UNII Middle CH5220 Rate=6M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 14.5 V/m; Power Drift = -0.083 dB
Peak SAR (extrapolated) = 2.24 W/kg
SAR(1 g) = 0.867 mW/g; SAR(10 g) = 0.251 mW/g
Maximum value of SAR (measured) = 1.66 mW/g


mW/g
1.66
1.33
1.01
0.678
0.351
0.024

Date/Time: 1/07/2008 7:11:56 PM

Test Laboratory: Compliance Certification Services Inc.

802.11a Vertical Edge Touched mode UNII IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5240 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5240 MHz; σ = 5.42 mho/m; ε_r = 48.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

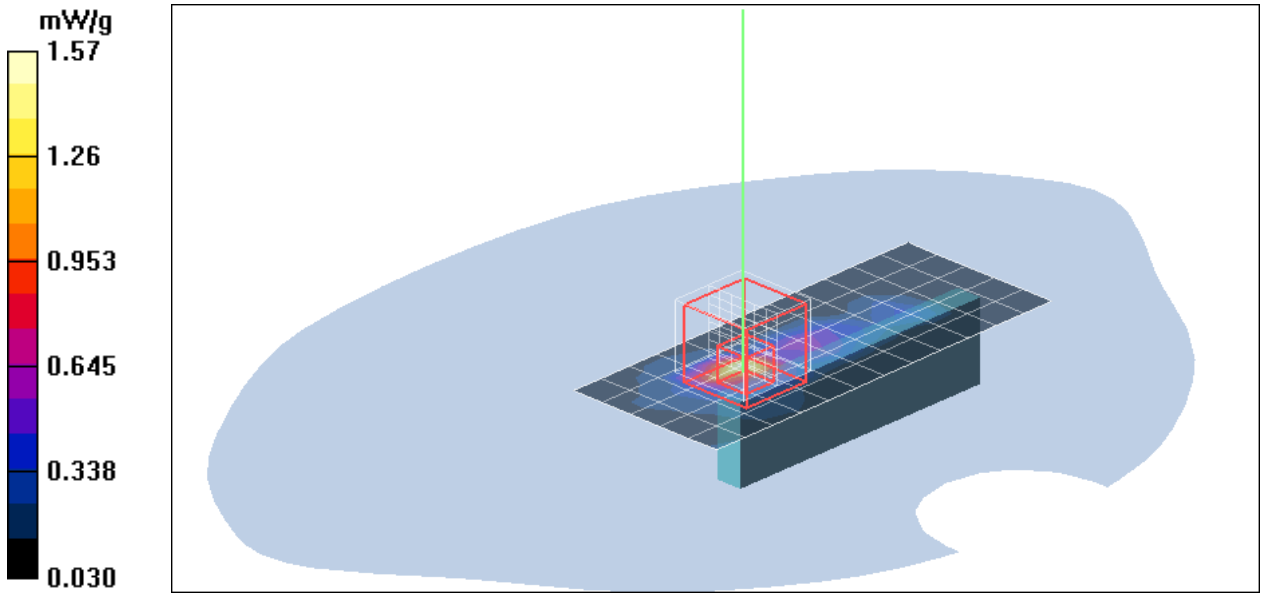
DASY4 Configuration:

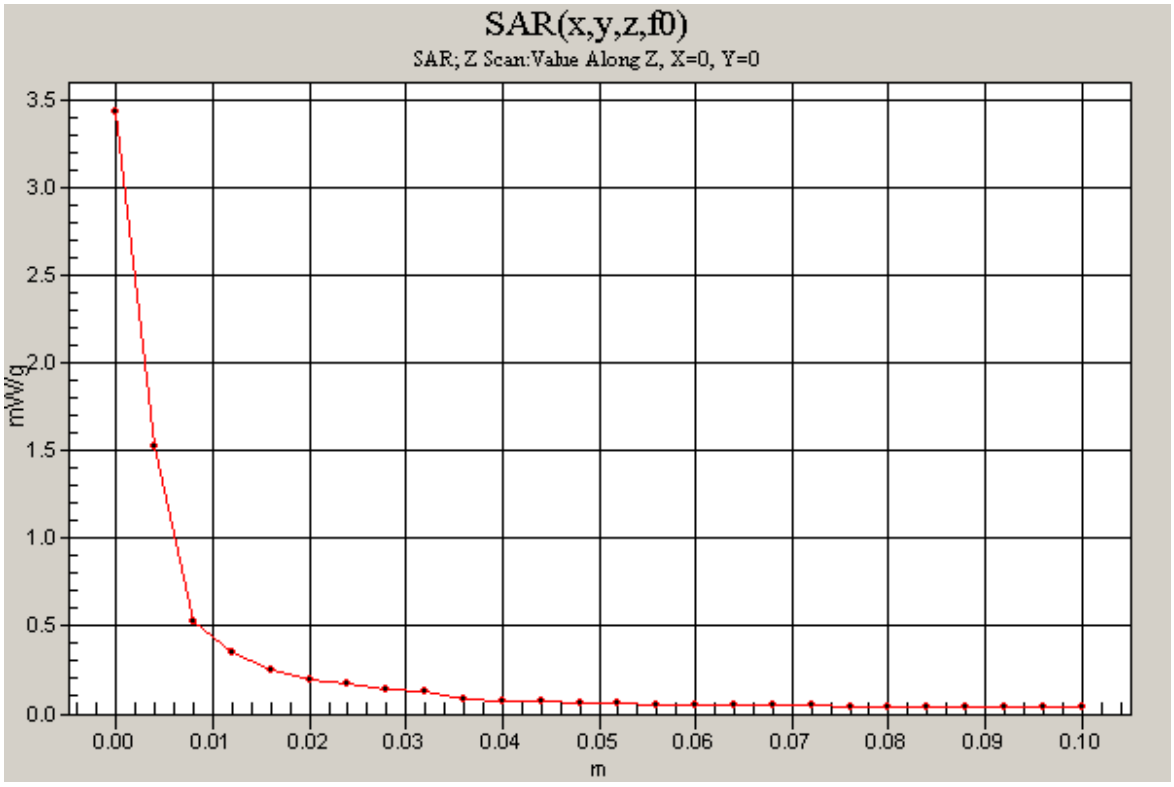
- Probe: EX3DV3 - SN3504; ConvF(4.34, 4.34, 4.34);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

UNII High CH5240 Rate=6M bit/Area Scan (6x13x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 1.57 mW/g

UNII High CH5240 Rate=6M bit/Zoom Scan (7x7x9)/Cube 0:
Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 16.8 V/m; Power Drift = -0.110 dB
Peak SAR (extrapolated) = 4.51 W/kg
SAR(1 g) = 1.480 mW/g; SAR(10 g) = 0.383 mW/g
Maximum value of SAR (measured) = 2.94 mW/g

UNII High CH5240 Rate=6M bit/Z Scan (1x1x26): Measurement grid: dx=20mm, dy=20mm, dz=4mm
Maximum value of SAR (measured) = 3.43 mW/g


mW/g
1.57
1.26
0.953
0.645
0.338
0.030


SAR(x,y,z,f0)
SAR; Z Scan:Value Along Z, X=0, Y=0
mW/g
m
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.00
0.01
0.02
0.03
0.04
0.05
0.06
0.07
0.08
0.09
0.10

Date/Time: 1/07/2008 7:38:45 PM

Test Laboratory: Compliance Certification Services Inc.

802.11a Vertical Edge Touched mode UNII IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5260 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5260 MHz; σ = 5.45 mho/m; ε_r = 48.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

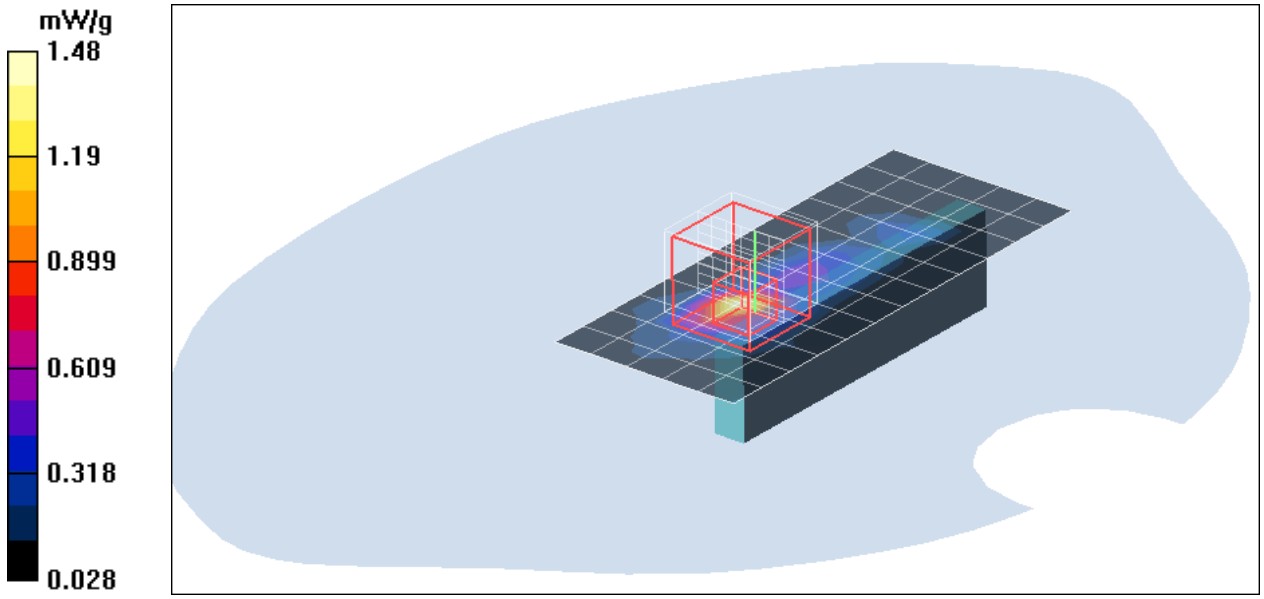
- Probe: EX3DV3 - SN3504; ConvF(4.08, 4.08, 4.08);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

UNII Low CH5260 Rate=6M bit/Area Scan (6x13x1): Measurement grid: dx=10mm, dy=10mm

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

UNII Low CH5260 Rate=6M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 15.3 V/m; Power Drift = -0.119 dB
Peak SAR (extrapolated) = 4.36 W/kg
SAR(1 g) = 1.290 mW/g; SAR(10 g) = 0.341 mW/g
Maximum value of SAR (measured) = 2.39 mW/g


mW/g
1.48
1.19
0.899
0.609
0.318
0.028

Date/Time: 1/07/2008 8:05:27 PM

Test Laboratory: Compliance Certification Services Inc.

802.11a Vertical Edge Touched mode UNII IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5260 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5260 MHz; σ = 5.45 mho/m; ε_r = 48.2; ρ = 1000 kg/m^3

Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(4.08, 4.08, 4.08);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

UNII Middle CH5280 Rate=6M bit/Area Scan (6x13x1): Measurement grid: dx=10mm, dy=10mm

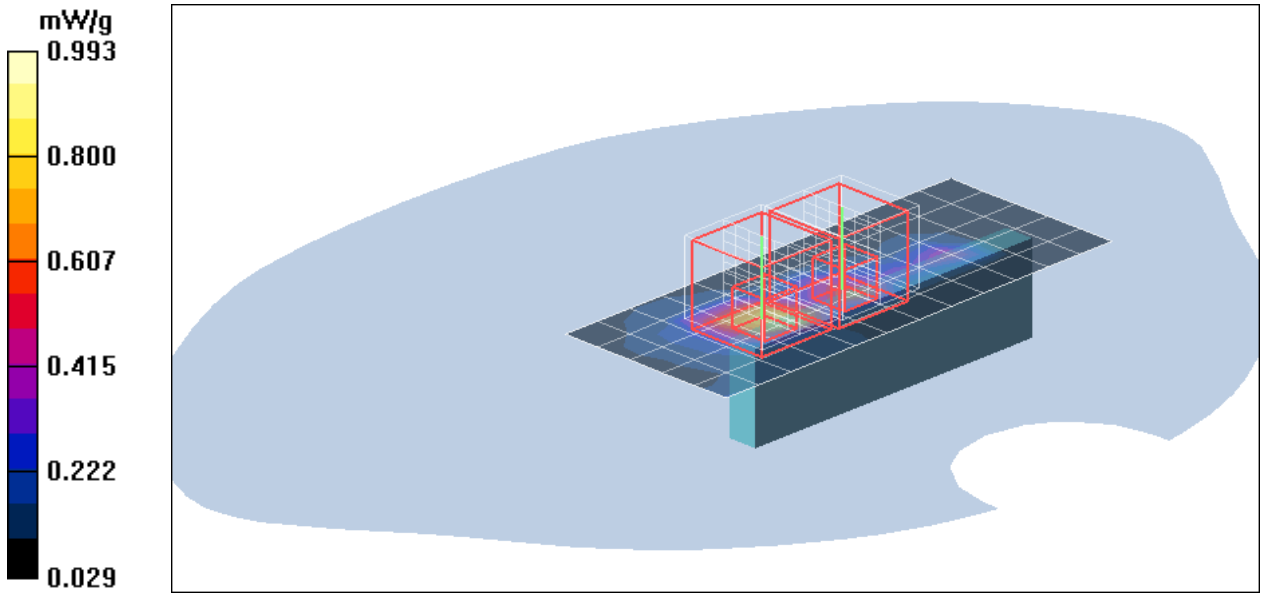
Maximum value of SAR (measured) = 0.880 mW/g

UNII Middle CH5280 Rate=6M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 15.3 V/m; Power Drift = -0.145 dB
Peak SAR (extrapolated) = 3.35 W/kg
SAR(1 g) = 1.050 mW/g; SAR(10 g) = 0.287 mW/g
Maximum value of SAR (measured) = 2.19 mW/g

UNII Middle CH5280 Rate=6M bit/Zoom Scan (7x7x9)/Cube 1:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 15.3 V/m; Power Drift = -0.145 dB
Peak SAR (extrapolated) = 1.09 W/kg
SAR(1 g) = 0.522 mW/g; SAR(10 g) = 0.176 mW/g
Maximum value of SAR (measured) = 0.993 mW/g


mW/g
0.993
0.800
0.607
0.415
0.222
0.029

Date/Time: 1/07/2008 8:32:48 PM

Test Laboratory: Compliance Certification Services Inc.

802.11a Vertical Edge Touched mode UNII IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

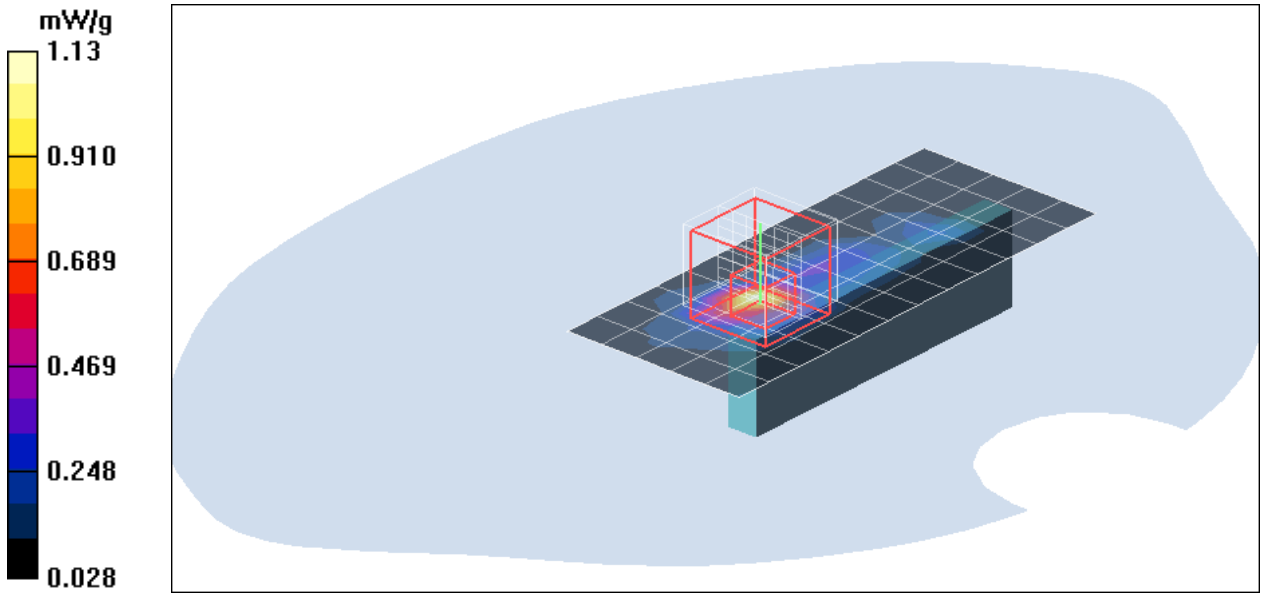
Communication System: IEEE 802.11 A; Frequency: 5320 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5320 MHz; σ = 5.54 mho/m; ε_r = 48.1; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(4.08, 4.08, 4.08);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

UNII High CH5320 Rate=6M bit/Area Scan (6x13x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 1.13 mW/g

UNII High CH5320 Rate=6M bit/Zoom Scan (7x7x9)/Cube 0:
Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 12.9 V/m; Power Drift = -0.033 dB
Peak SAR (extrapolated) = 3.57 W/kg
SAR(1 g) = 1.010 mW/g; SAR(10 g) = 0.266 mW/g
Maximum value of SAR (measured) = 2.25 mW/g


mW/g
1.13
0.910
0.689
0.469
0.248
0.028

Date/Time: 1/07/2008 8:57:55 PM

Test Laboratory: Compliance Certification Services Inc.

802.11a Vertical Edge Touched mode DTS IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5500 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5500 MHz; σ = 5.81 mho/m; ε_r = 47.7; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

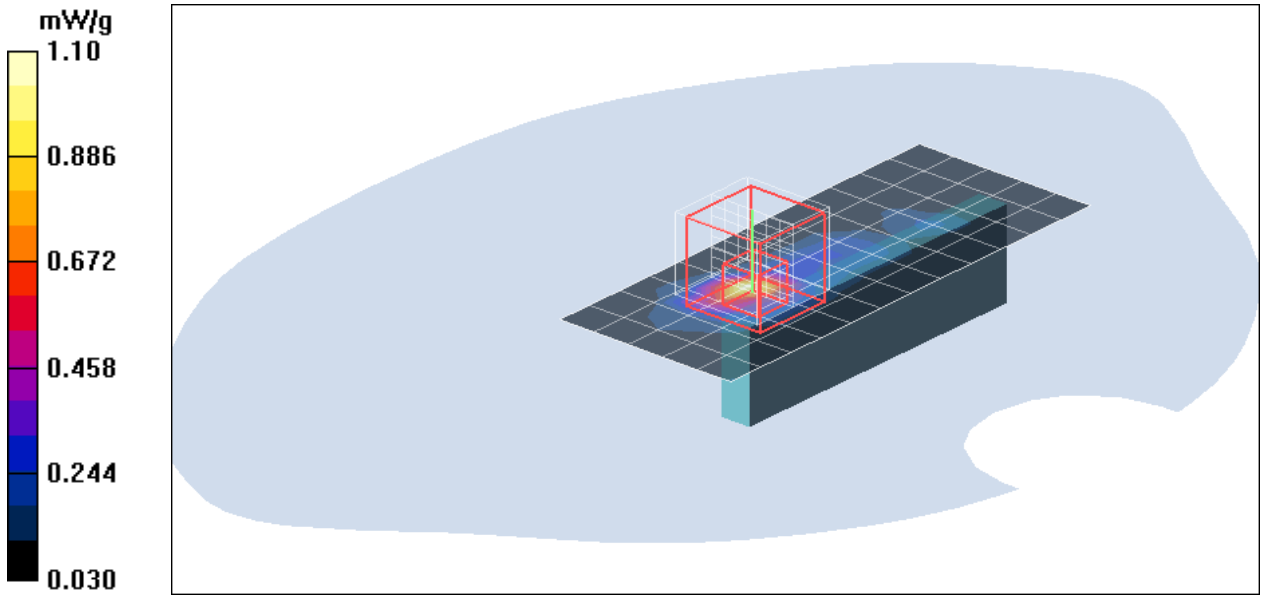
- Probe: EX3DV3 - SN3504; ConvF(3.99, 3.99, 3.99);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

DTS Low CH5500 Rate=6M bit/Area Scan (6x13x1): Measurement grid: dx=10mm, dy=10mm

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

DTS Low CH5500 Rate=6M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 12.8 V/m; Power Drift = -0.059 dB
Peak SAR (extrapolated) = 3.92 W/kg
SAR(1 g) = 1.030 mW/g; SAR(10 g) = 0.258 mW/g
Maximum value of SAR (measured) = 2.34 mW/g


mW/g
1.10
0.886
0.672
0.458
0.244
0.030

Date/Time: 1/07/2008 9:24:46 PM

Test Laboratory: Compliance Certification Services Inc.

802.11a Vertical Edge Touched mode DTS IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5600 MHz; σ = 5.96 mho/m; ε_r = 47.5; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

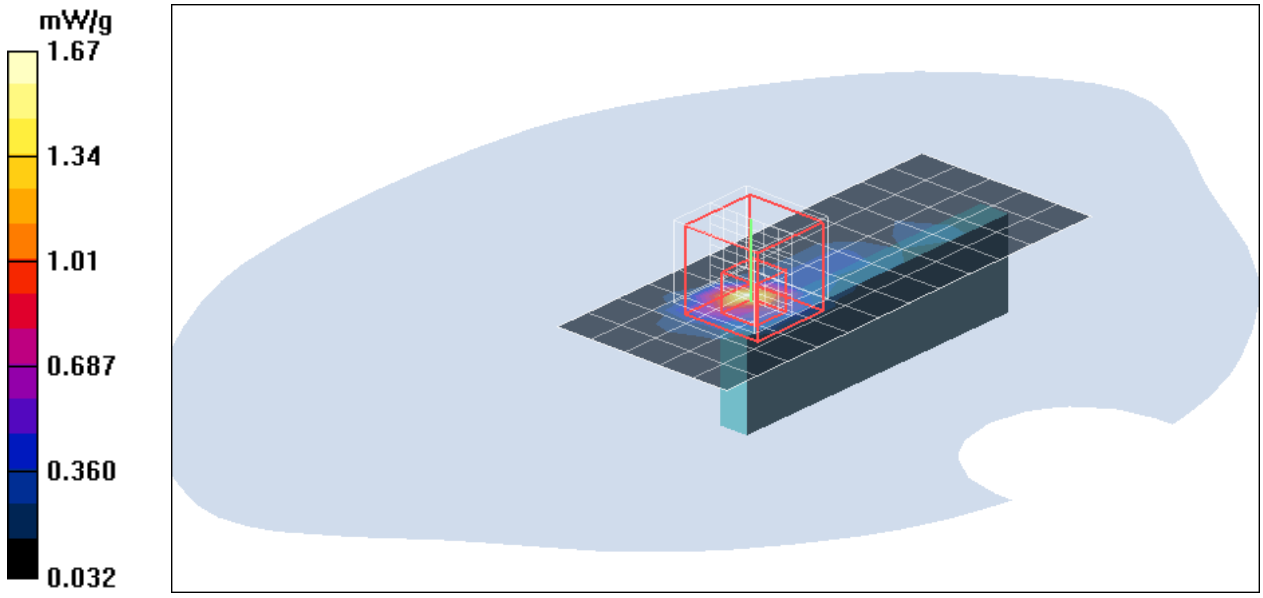
- Probe: EX3DV3 - SN3504; ConvF(4.09, 4.09, 4.09);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

DTS Middle CH5600 Rate=6M bit/Area Scan (6x13x1): Measurement grid: dx=10mm, dy=10mm

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

DTS Middle CH5600 Rate=6M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 14.8 V/m; Power Drift = -0.051 dB
Peak SAR (extrapolated) = 6.26 W/kg
SAR(1 g) = 1.430 mW/g; SAR(10 g) = 0.344 mW/g
Maximum value of SAR (measured) = 3.22 mW/g


mW/g
1.67
1.34
1.01
0.687
0.360
0.032

Date/Time: 1/07/2008 9:52:39 PM

Test Laboratory: Compliance Certification Services Inc.

802.11a Vertical Edge Touched mode DTS IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5700 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5700 MHz; σ = 6.11 mho/m; ε_r = 47.3; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

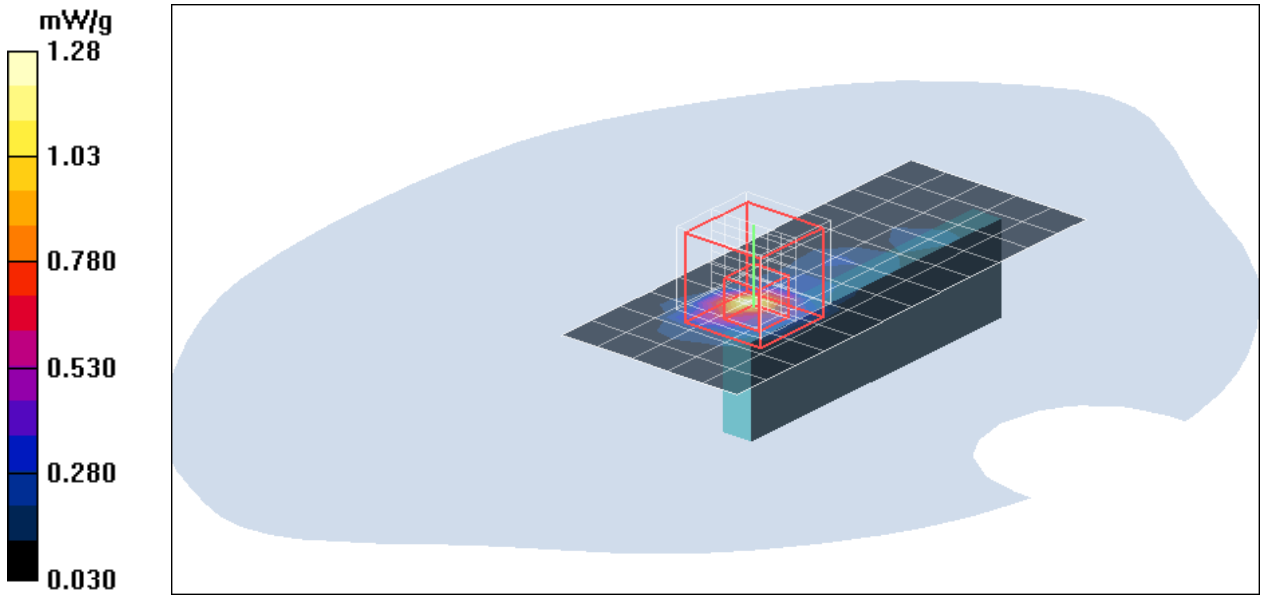
- Probe: EX3DV3 - SN3504; ConvF(4.10, 4.10, 4.10);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

DTS High CH5700 Rate=6M bit/Area Scan (6x13x1): Measurement grid: dx=10mm, dy=10mm

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

DTS High CH5700 Rate=6M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 12.8 V/m; Power Drift = -0.024 dB
Peak SAR (extrapolated) = 3.37 W/kg
SAR(1 g) = 1.150 mW/g; SAR(10 g) = 0.277 mW/g
Maximum value of SAR (measured) = 2.48 mW/g


mW/g
1.28
1.03
0.780
0.530
0.280
0.030

Date/Time: 1/07/2008 10:20:14 PM

Test Laboratory: Compliance Certification Services Inc.

802.11a Vertical Edge Touched mode DTS IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5745 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5745 MHz; σ = 6.17 mho/m; ε_r = 47.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

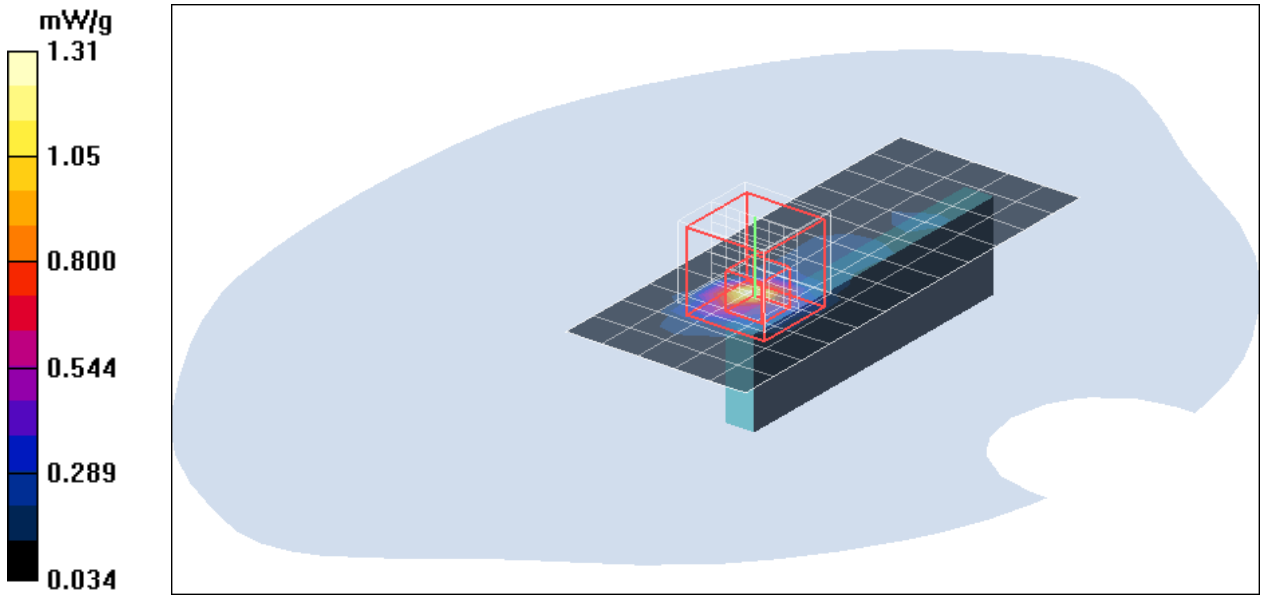
- Probe: EX3DV3 - SN3504; ConvF(4.10, 4.10, 4.10);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

DTS High CH5745 Rate=6M bit/Area Scan (6x13x1): Measurement grid: dx=10mm, dy=10mm

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

DTS High CH5745 Rate=6M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 12.5 V/m; Power Drift = -0.134 dB
Peak SAR (extrapolated) = 4.46 W/kg
SAR(1 g) = 1.120 mW/g; SAR(10 g) = 0.268 mW/g
Maximum value of SAR (measured) = 2.32 mW/g


mW/g
1.31
1.05
0.800
0.544
0.289
0.034

Date/Time: 1/07/2008 10:48:06 PM

Test Laboratory: Compliance Certification Services Inc.

802.11a Vertical Edge Touched mode DTS IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5785 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5785 MHz; σ = 6.21 mho/m; ε_r = 47.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

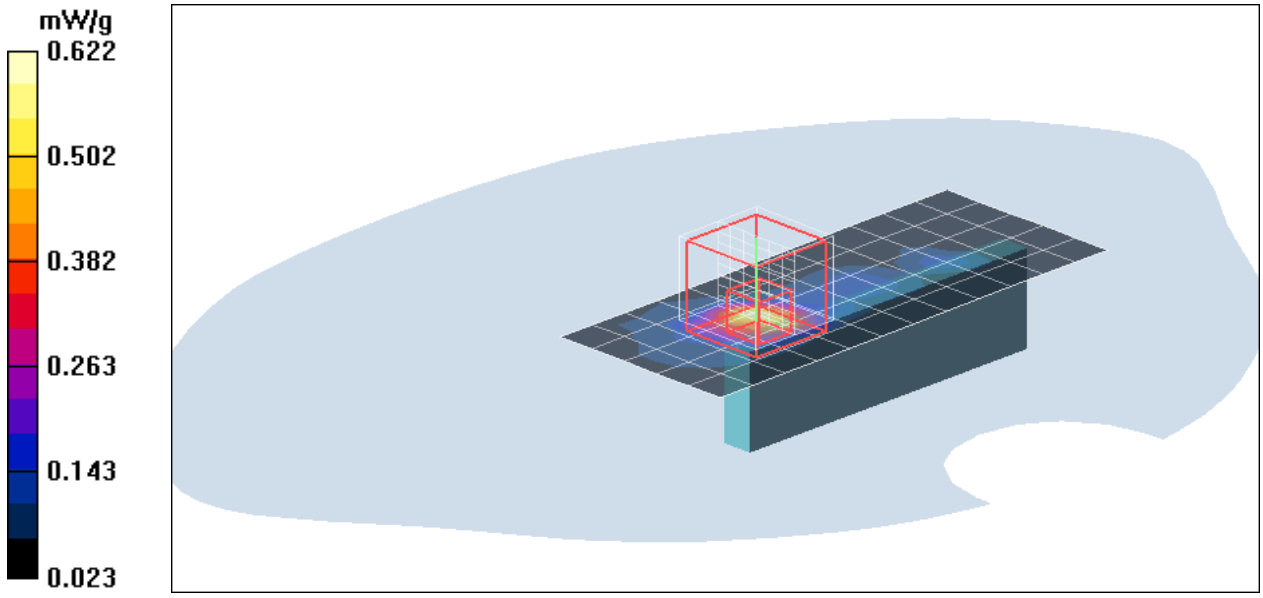
- Probe: EX3DV3 - SN3504; ConvF(4.10, 4.10, 4.10);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

DTS High CH5785 Rate=6M bit/Area Scan (6x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.622 mW/g

DTS High CH5785 Rate=6M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 10.2 V/m; Power Drift = -0.000 dB
Peak SAR (extrapolated) = 3.25 W/kg
SAR(1 g) = 0.705 mW/g; SAR(10 g) = 0.178 mW/g
Maximum value of SAR (measured) = 1.43 mW/g


mW/g
0.622
0.502
0.382
0.263
0.143
0.023

Date/Time: 1/07/2008 11:16:04 PM

Test Laboratory: Compliance Certification Services Inc.

802.11a Vertical Edge Touched mode DTS IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5825 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5825 MHz; σ = 6.25 mho/m; ε_r = 47.1; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

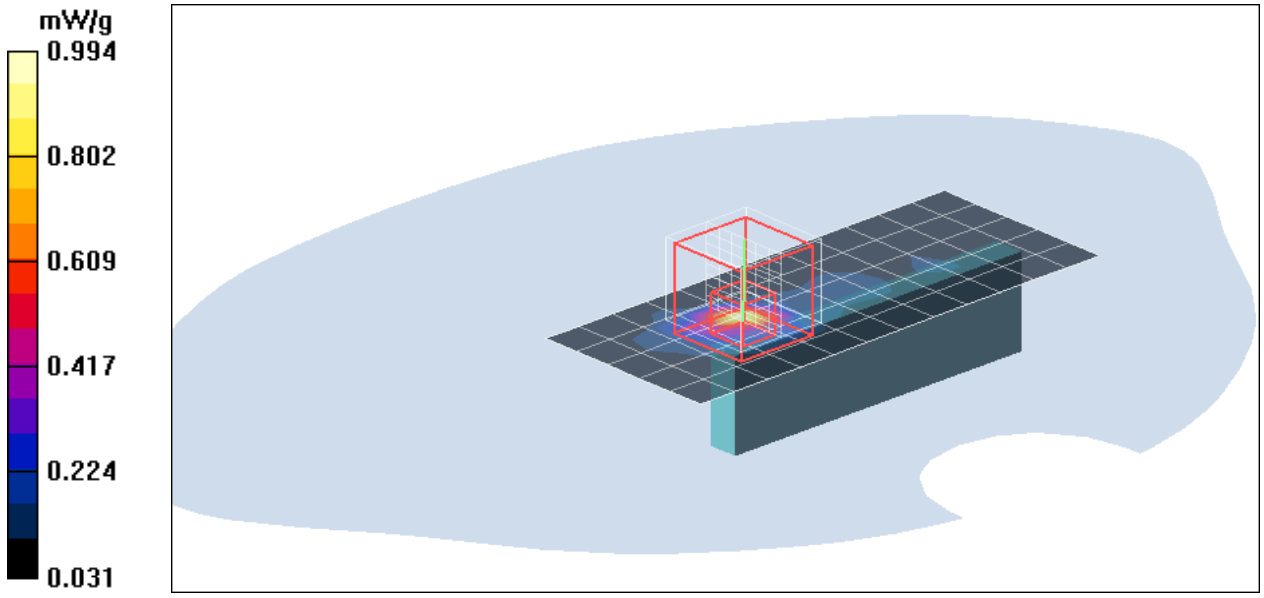
- Probe: EX3DV3 - SN3504; ConvF(4.10, 4.10, 4.10);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

DTS High CH5825 Rate=6M bit/Area Scan (6x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.994 mW/g

DTS High CH5825 Rate=6M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 10.6 V/m; Power Drift = -0.117 dB
Peak SAR (extrapolated) = 3.14 W/kg
SAR(1 g) = 0.855 mW/g; SAR(10 g) = 0.209 mW/g
Maximum value of SAR (measured) = 1.96 mW/g


mW/g
0.994
0.802
0.609
0.417
0.224
0.031

Date/Time: 1/07/2008 11:42:12 PM

Test Laboratory: Compliance Certification Services Inc.

802.11a Vertical Edge Touched mode UNII HT20 IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5180 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5180 MHz; σ = 5.33 mho/m; ε_r = 48.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

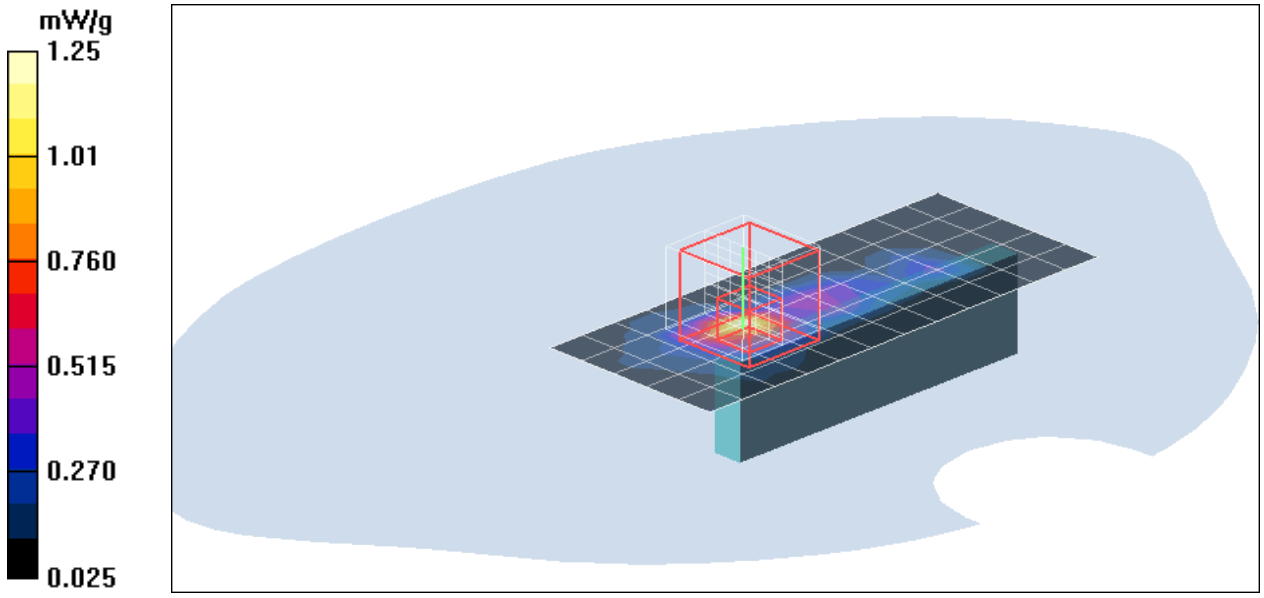
- Probe: EX3DV3 - SN3504; ConvF(4.34, 4.34, 4.34);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

UNII Low CH5180 Rate=6.5M bit/Area Scan (6x13x1): Measurement grid: dx=10mm, dy=10mm

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

UNII Low CH5180 Rate=6.5M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 15.2 V/m; Power Drift = -0.125 dB
Peak SAR (extrapolated) = 4.45 W/kg
SAR(1 g) = 1.200 mW/g; SAR(10 g) = 0.316 mW/g
Maximum value of SAR (measured) = 2.49 mW/g


mW/g
1.25
1.01
0.760
0.515
0.270
0.025

Date/Time: 1/08/2008 12:11:12 AM

Test Laboratory: Compliance Certification Services Inc.

802.11a Vertical Edge Touched mode UNII HT20 IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5220 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5220 MHz; σ = 5.39 mho/m; ε_r = 48.3; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

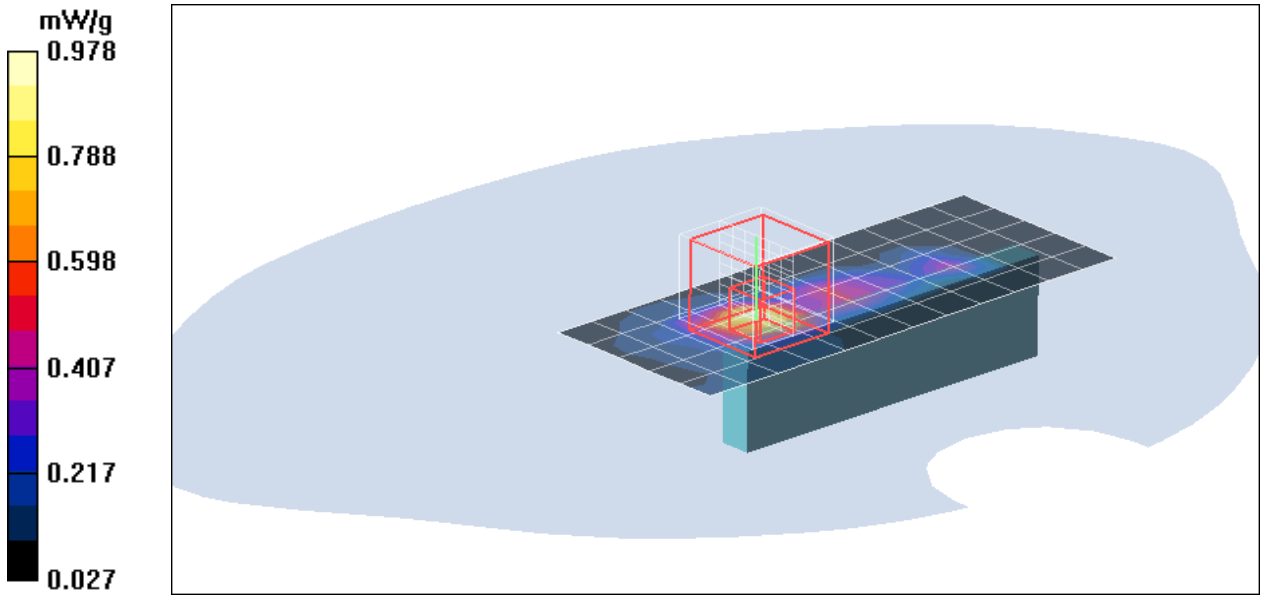
- Probe: EX3DV3 - SN3504; ConvF(4.34, 4.34, 4.34);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

UNII Middle CH5220 Rate=6.5M bit/Area Scan (6x13x1):

Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.978 mW/g

UNII Middle CH5220 Rate=6.5M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 14.7 V/m; Power Drift = -0.047 dB
Peak SAR (extrapolated) = 2.93 W/kg
SAR(1 g) = 1.030 mW/g; SAR(10 g) = 0.284 mW/g
Maximum value of SAR (measured) = 2.11 mW/g


mW/g
0.978
0.788
0.598
0.407
0.217
0.027

Date/Time: 1/08/2008 12:39:46 AM

Test Laboratory: Compliance Certification Services Inc.

802.11a Vertical Edge Touched Touched mode UNII HT20 IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

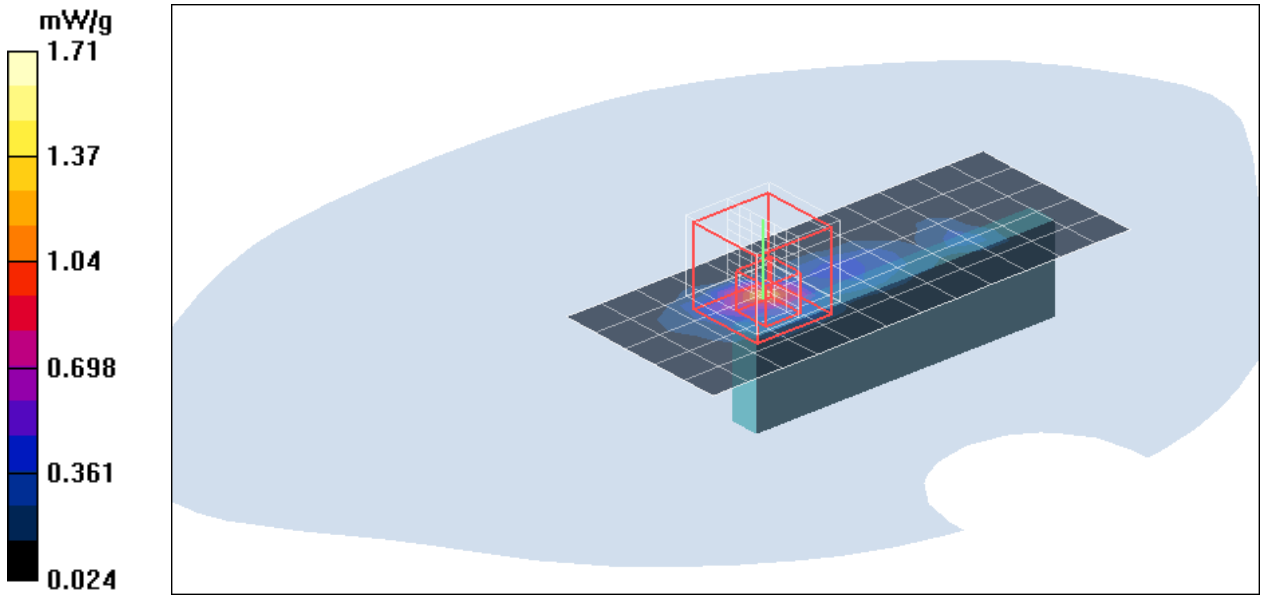
Communication System: IEEE 802.11 A; Frequency: 5240 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5240 MHz; σ = 5.42 mho/m; ε_r = 48.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(4.34, 4.34, 4.34);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

UNII High CH5240 Rate=6.5M bit/Area Scan (6x13x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 1.30 mW/g

UNII High CH5240 Rate=6.5M bit/Zoom Scan (7x7x9)/Cube 0:
Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 13.9 V/m; Power Drift = -0.049 dB
Peak SAR (extrapolated) = 4.17 W/kg
SAR(1 g) = 1.070 mW/g; SAR(10 g) = 0.277 mW/g
Maximum value of SAR (measured) = 2.11 mW/g


mW/g
1.71
1.37
1.04
0.698
0.361
0.024

Date/Time: 1/08/2008 1:06:30 AM

Test Laboratory: Compliance Certification Services Inc.

802.11a Vertical Edge Touched mode UNII HT20 IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5260 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5260 MHz; σ = 5.45 mho/m; ε_r = 48.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

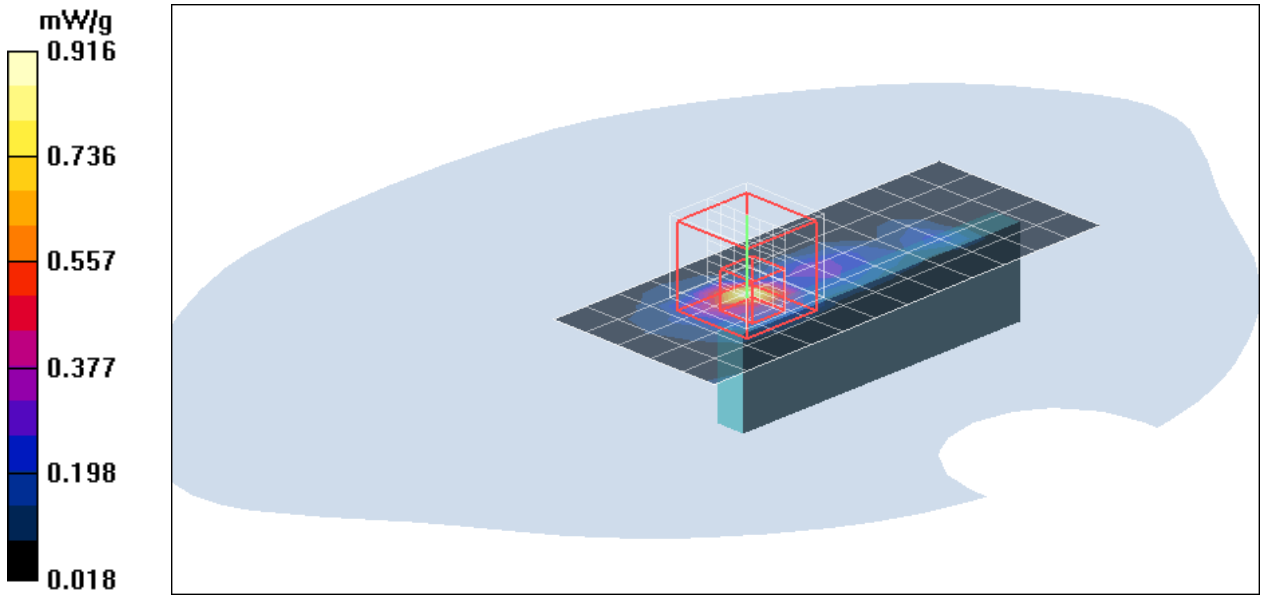
- Probe: EX3DV3 - SN3504; ConvF(4.08, 4.08, 4.08);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

UNII Low CH5260 Rate=6.5M bit/Area Scan (6x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.916 mW/g

UNII Low CH5260 Rate=6.5M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 11.4 V/m; Power Drift = -0.114 dB
Peak SAR (extrapolated) = 3.56 W/kg
SAR(1 g) = 0.777 mW/g; SAR(10 g) = 0.204 mW/g
Maximum value of SAR (measured) = 1.52 mW/g


mW/g
0.916
0.736
0.557
0.377
0.198
0.018

Date/Time: 1/08/2008 1:34:31 AM

Test Laboratory: Compliance Certification Services Inc.

802.11a Vertical Edge Touched Touched mode UNII HT20 IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5260 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5260 MHz; σ = 5.45 mho/m; ε_r = 48.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

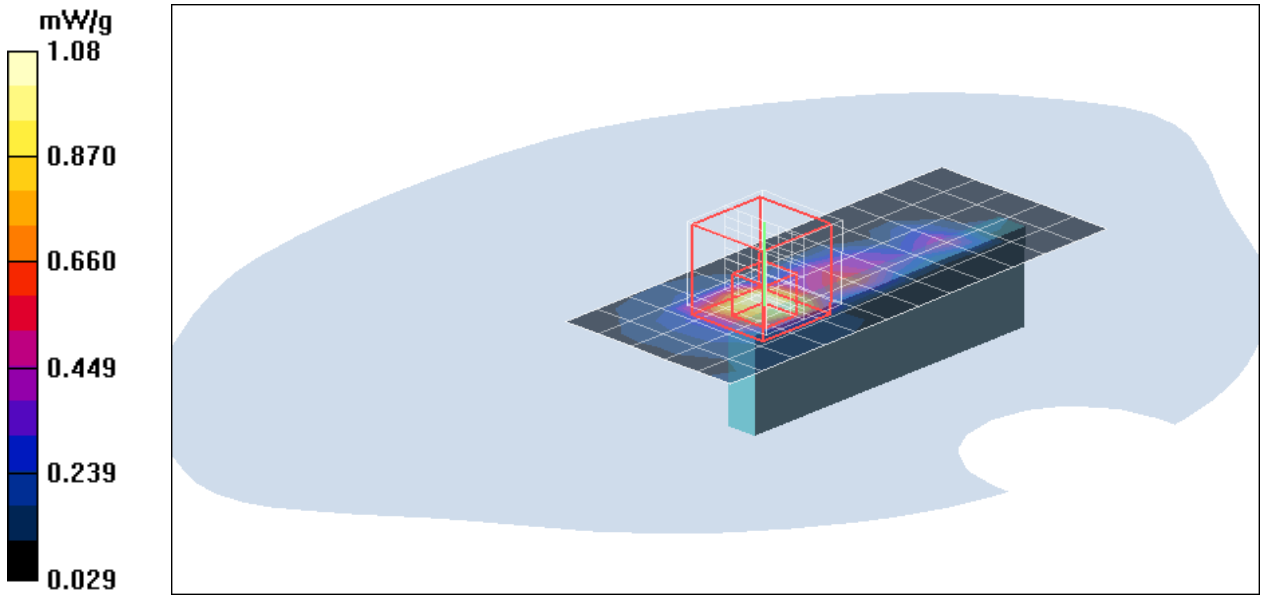
- Probe: EX3DV3 - SN3504; ConvF(4.08, 4.08, 4.08);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

UNII Middle CH5280 Rate=6.5M bit/Area Scan (6x13x1):

Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 1.08 mW/g

UNII Middle CH5280 Rate=6.5M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 16.2 V/m; Power Drift = -0.097 dB
Peak SAR (extrapolated) = 4.24 W/kg
SAR(1 g) = 1.350 mW/g; SAR(10 g) = 0.358 mW/g
Maximum value of SAR (measured) = 2.57 mW/g


mW/g
1.08
0.870
0.660
0.449
0.239
0.029

Date/Time: 1/08/2008 2:03:22 AM

Test Laboratory: Compliance Certification Services Inc.

802.11a Vertical Edge Touched mode UNII HT20 IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5320 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5320 MHz; σ = 5.54 mho/m; ε_r = 48.1; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

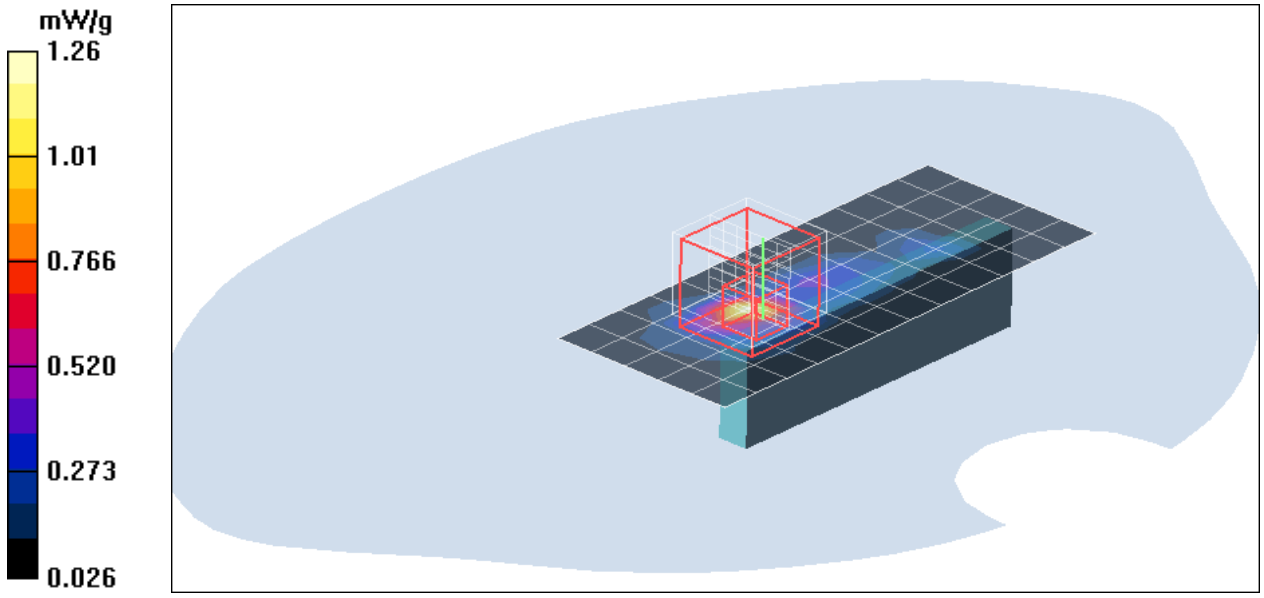
- Probe: EX3DV3 - SN3504; ConvF(4.08, 4.08, 4.08);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

UNII High CH5320 Rate=6.5M bit/Area Scan (6x13x1): Measurement grid: dx=10mm, dy=10mm

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

UNII High CH5320 Rate=6.5M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 12.8 V/m; Power Drift = -0.086 dB
Peak SAR (extrapolated) = 3.36 W/kg
SAR(1 g) = 1.030 mW/g; SAR(10 g) = 0.269 mW/g
Maximum value of SAR (measured) = 1.98 mW/g


mW/g
1.26
1.01
0.766
0.520
0.273
0.026

Date/Time: 1/08/2008 2:31:45 AM

Test Laboratory: Compliance Certification Services Inc.

802.11a Vertical Edge Touched mode DTS HT20 IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5500 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5500 MHz; σ = 5.81 mho/m; ε_r = 47.7; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

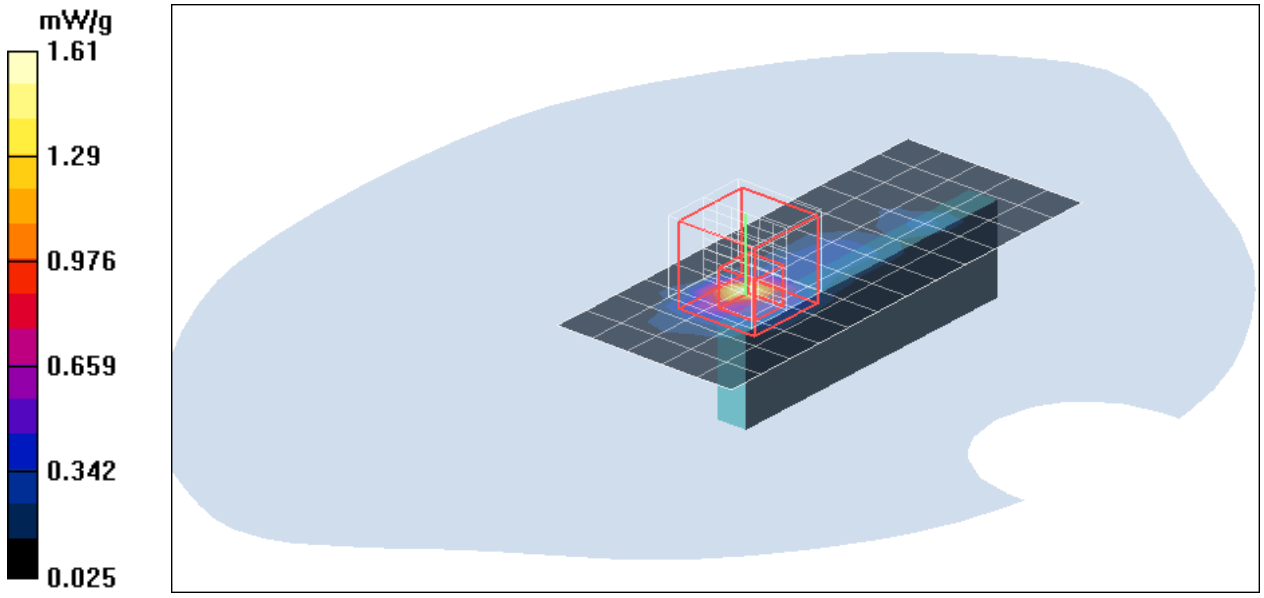
- Probe: EX3DV3 - SN3504; ConvF(3.99, 3.99, 3.99);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

DTS Low CH5500 Rate=6.5M bit/Area Scan (6x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.61 mW/g

DTS Low CH5500 Rate=6.5M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 14.3 V/m; Power Drift = -0.058 dB
Peak SAR (extrapolated) = 4.70 W/kg
SAR(1 g) = 1.330 mW/g; SAR(10 g) = 0.324 mW/g
Maximum value of SAR (measured) = 2.72 mW/g


mW/g
1.61
1.29
0.976
0.659
0.342
0.025

Date/Time: 1/08/2008 2:58:39 AM

Test Laboratory: Compliance Certification Services Inc.

802.11a Vertical Edge Touched mode DTS HT20 IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5600 MHz; σ = 5.96 mho/m; ε_r = 47.5; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

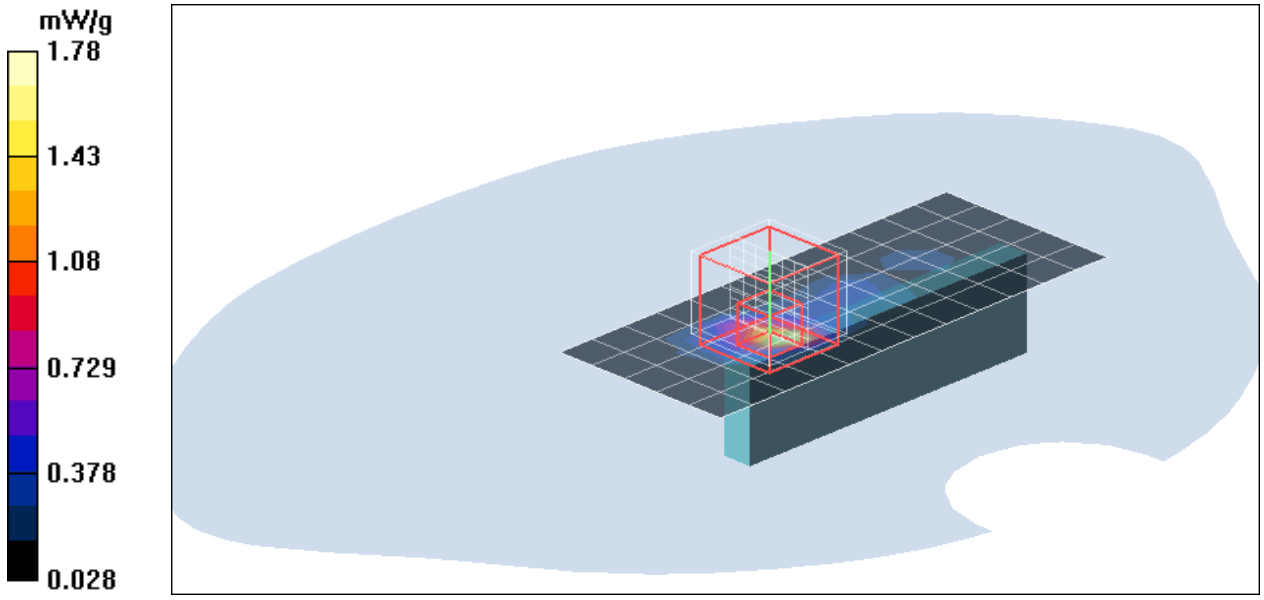
- Probe: EX3DV3 - SN3504; ConvF(4.09, 4.09, 4.09);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

DTS Middle CH5600 Rate=6.5M bit/Area Scan (6x13x1):

Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 1.78 mW/g

DTS Middle CH5600 Rate=6.5M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 13.4 V/m; Power Drift = -0.133 dB
Peak SAR (extrapolated) = 4.13 W/kg
SAR(1 g) = 1.440 mW/g; SAR(10 g) = 0.357 mW/g
Maximum value of SAR (measured) = 3.40 mW/g


mW/g
1.78
1.43
1.08
0.729
0.378
0.028

Date/Time: 1/08/2008 3:26:23 AM

Test Laboratory: Compliance Certification Services Inc.

802.11a Vertical Edge Touched mode DTS HT20 IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5700 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5700 MHz; σ = 6.11 mho/m; ε_r = 47.3; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

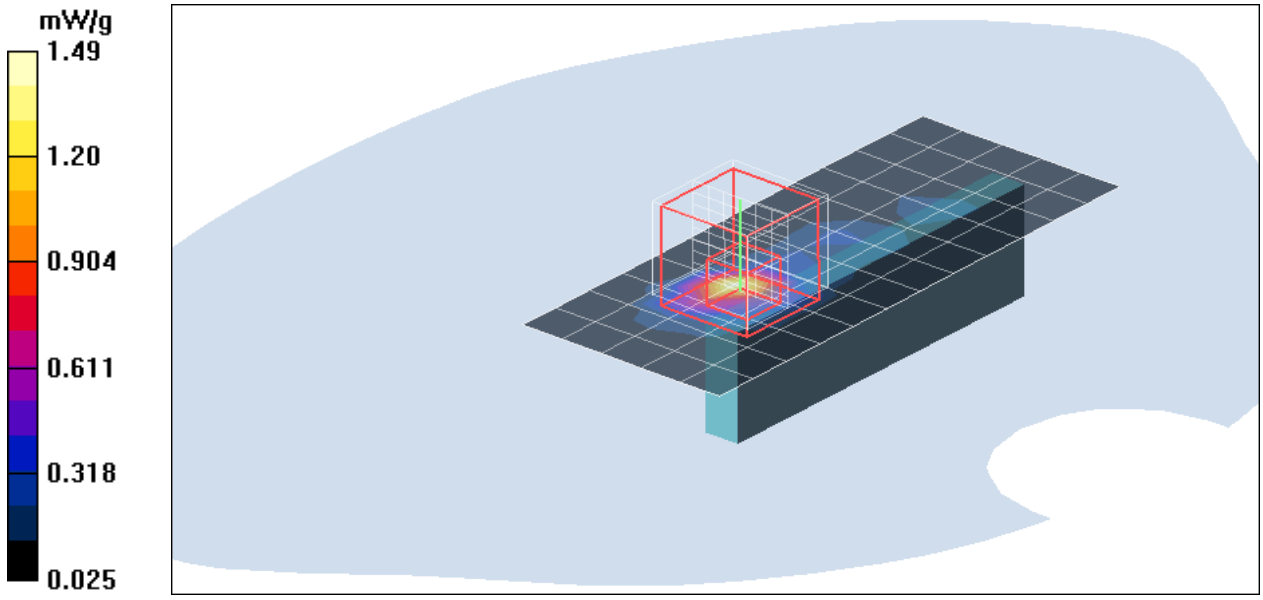
- Probe: EX3DV3 - SN3504; ConvF(4.10, 4.10, 4.10);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

DTS High CH5700 Rate=6.5M bit/Area Scan (6x13x1): Measurement grid: dx=10mm, dy=10mm

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

DTS High CH5700 Rate=6.5M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 13.1 V/m; Power Drift = -0.056 dB
Peak SAR (extrapolated) = 5.34 W/kg
SAR(1 g) = 1.380 mW/g; SAR(10 g) = 0.319 mW/g
Maximum value of SAR (measured) = 3.10 mW/g


mW/g
1.49
1.20
0.904
0.611
0.318
0.025

Date/Time: 1/08/2008 3:55:13 AM

Test Laboratory: Compliance Certification Services Inc.

802.11a Vertical Edge Touched mode DTS HT20 IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5745 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5745 MHz; σ = 6.17 mho/m; ε_r = 47.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

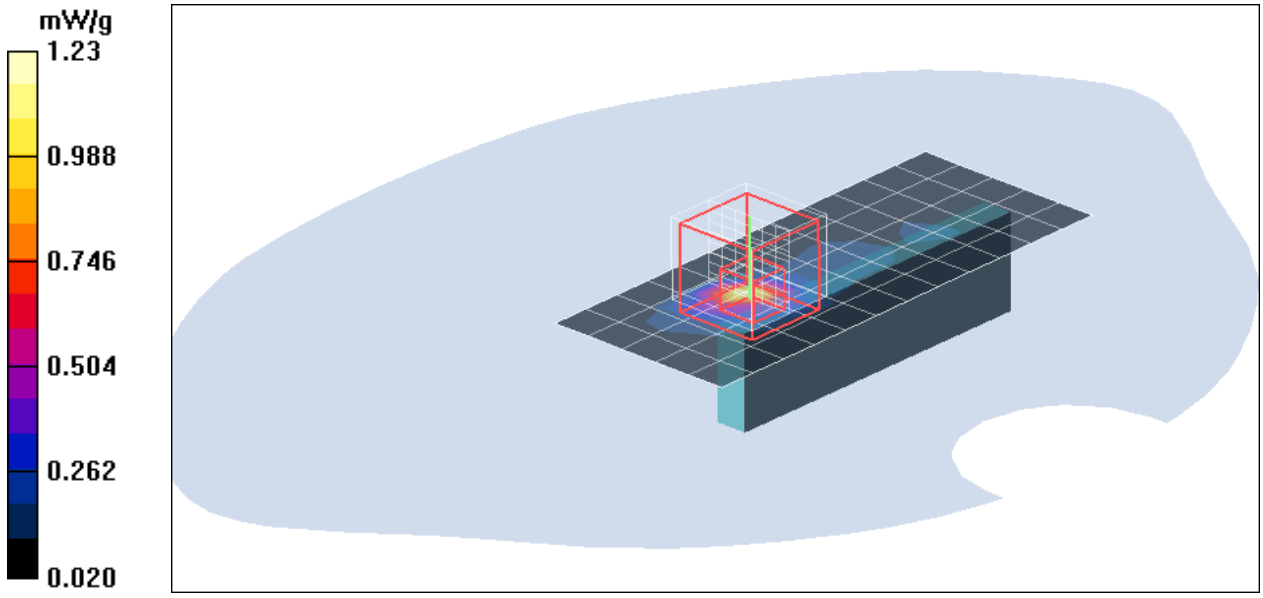
- Probe: EX3DV3 - SN3504; ConvF(4.10, 4.10, 4.10);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

DTS High CH5745 Rate=6.5M bit/Area Scan (6x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.23 mW/g

DTS High CH5745 Rate=6.5M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 12.0 V/m; Power Drift = -0.024 dB
Peak SAR (extrapolated) = 3.48 W/kg
SAR(1 g) = 1.010 mW/g; SAR(10 g) = 0.241 mW/g
Maximum value of SAR (measured) = 2.13 mW/g


mW/g
1.23
0.988
0.746
0.504
0.262
0.020

Date/Time: 1/08/2008 4:21:01 AM

Test Laboratory: Compliance Certification Services Inc.

802.11a Vertical Edge Touched mode DTS HT20 IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5785 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5785 MHz; σ = 6.21 mho/m; ε_r = 47.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

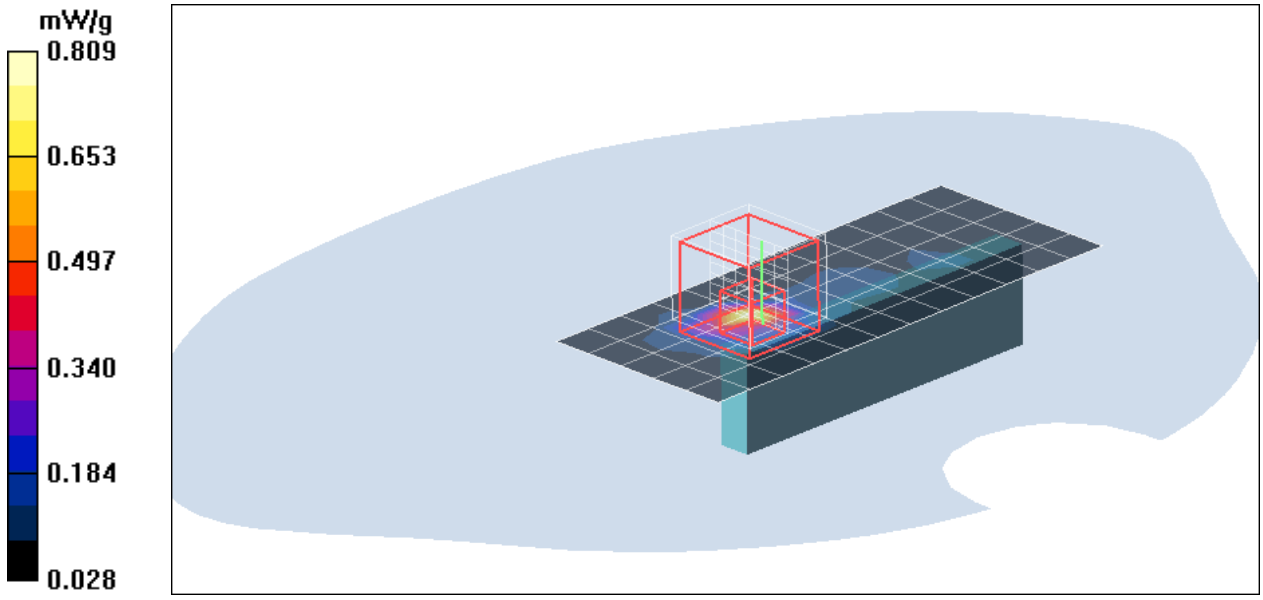
- Probe: EX3DV3 - SN3504; ConvF(4.10, 4.10, 4.10);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

DTS Middle CH5785 Rate=6.5M bit/Area Scan (6x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.809 mW/g

DTS Middle CH5785 Rate=6.5M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 10.4 V/m; Power Drift = -0.070 dB
Peak SAR (extrapolated) = 2.64 W/kg
SAR(1 g) = 0.728 mW/g; SAR(10 g) = 0.178 mW/g
Maximum value of SAR (measured) = 1.50 mW/g


mW/g
0.809
0.653
0.497
0.340
0.184
0.028

Date/Time: 1/08/2008 4:50:46 AM

Test Laboratory: Compliance Certification Services Inc.

802.11a Vertical Edge Touched mode DTS HT20 IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5825 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5825 MHz; σ = 6.25 mho/m; ε_r = 47.1; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

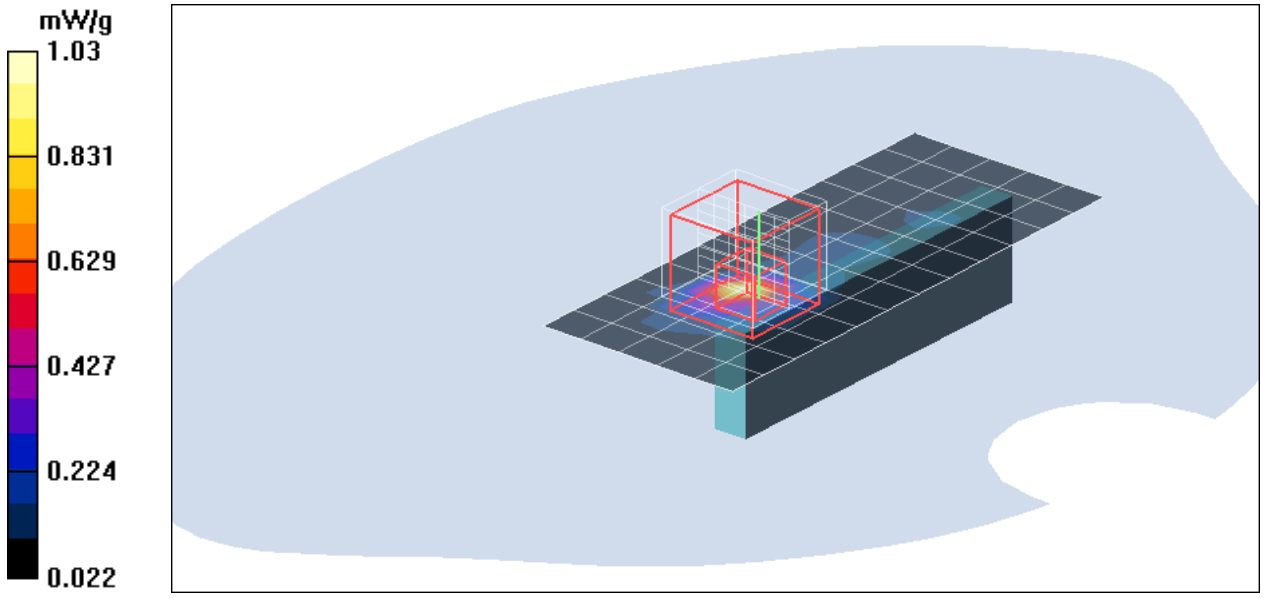
- Probe: EX3DV3 - SN3504; ConvF(4.10, 4.10, 4.10);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

DTS High CH5825 Rate=6.5M bit/Area Scan (6x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.03 mW/g

DTS High CH5825 Rate=6.5M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 10.9 V/m; Power Drift = -0.121 dB
Peak SAR (extrapolated) = 3.80 W/kg
SAR(1 g) = 0.892 mW/g; SAR(10 g) = 0.211 mW/g
Maximum value of SAR (measured) = 1.82 mW/g


mW/g
1.03
0.831
0.629
0.427
0.224
0.022

Date/Time: 1/08/2008 5:18:37 PM

Test Laboratory: Compliance Certification Services Inc.

802.11a Verticall Bottom Flat Touched mode UNII HT40 IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5190 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5190 MHz; σ = 5.31 mho/m; ε_r = 48.3; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.6 deg C;Liquid Temperature:23.6 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

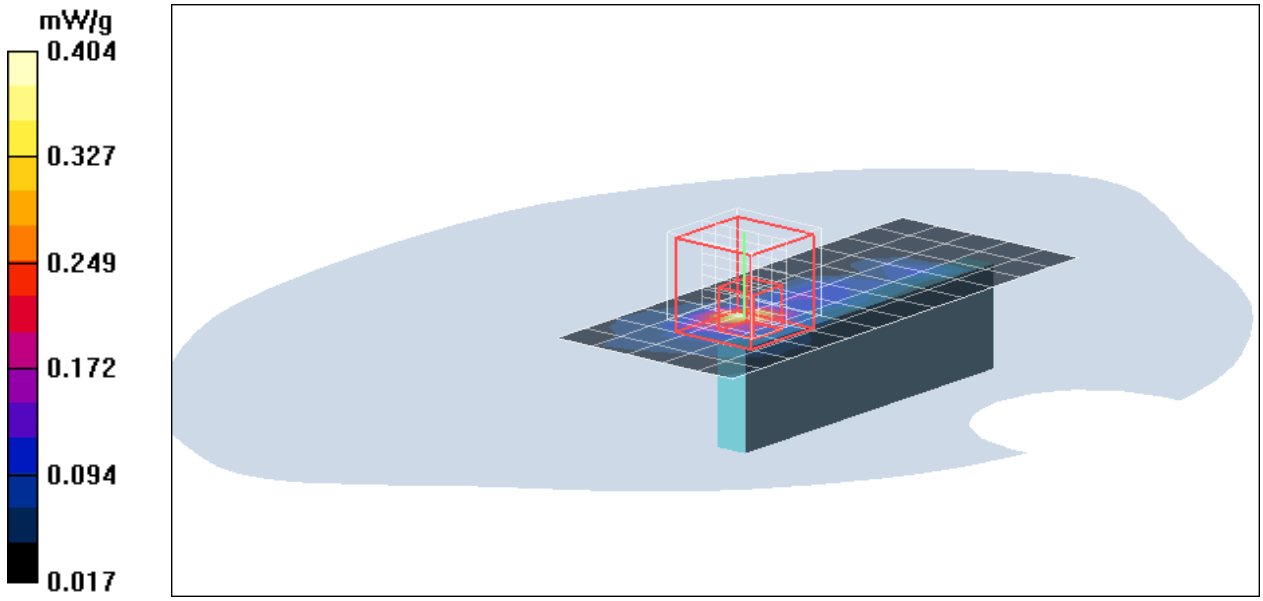
- Probe: EX3DV3 - SN3504; ConvF(4.34, 4.34, 4.34);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

UNII Low CH5190 Rate=13.5M bit/Area Scan (6x13x1):

Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.404 mW/g

UNII Low CH5190 Rate=13.5M bit/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 7.12 V/m; Power Drift = -0.012 dB
Peak SAR (extrapolated) = 1.34 W/kg
SAR(1 g) = 0.349 mW/g; SAR(10 g) = 0.104 mW/g
Maximum value of SAR (measured) = 0.653 mW/g


mW/g
0.404
0.327
0.249
0.172
0.094
0.017

Date/Time: 1/08/2008 5:47:37 AM

Test Laboratory: Compliance Certification Services Inc.

802.11a Verticall Edge Touched Touched mode UNII HT40 IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5270 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5270 MHz; σ = 5.46 mho/m; ε_r = 48.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

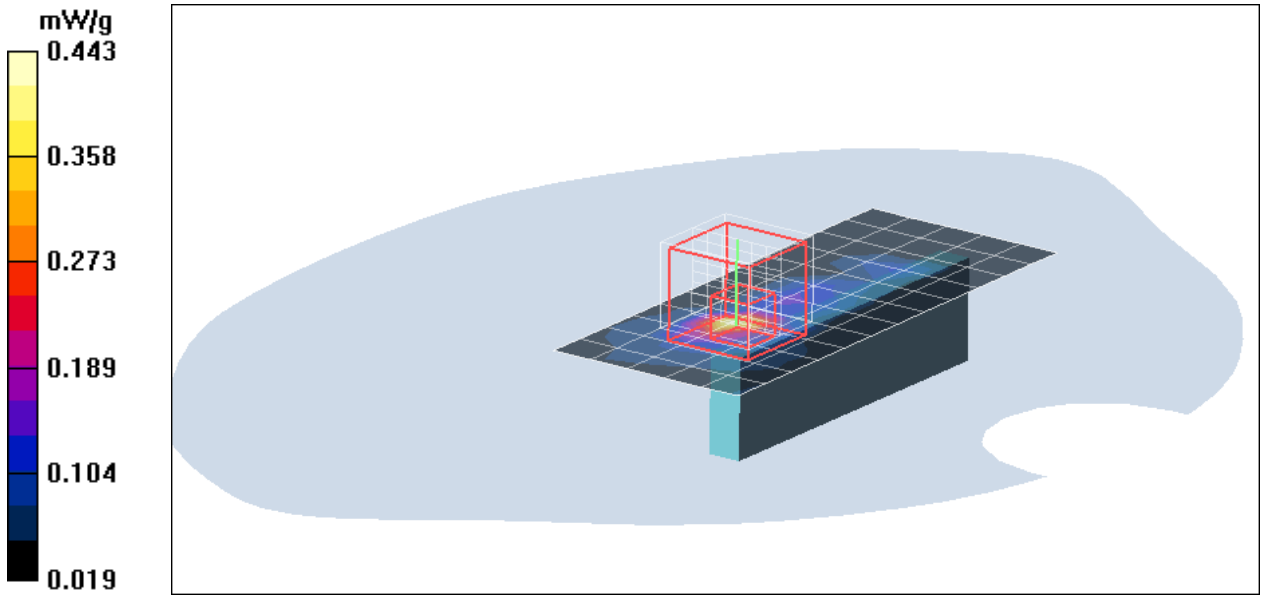
- Probe: EX3DV3 - SN3504; ConvF(4.08, 4.08, 4.08);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

UNII Middle CH5270 Rate=13.5M bit/Area Scan (6x13x1):

Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.443 mW/g

UNII Middle CH5270 Rate=13.5M bit/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 8.06 V/m; Power Drift = -0.003 dB
Peak SAR (extrapolated) = 1.45 W/kg
SAR(1 g) = 0.383 mW/g; SAR(10 g) = 0.109 mW/g
Maximum value of SAR (measured) = 0.715 mW/g


mW/g
0.443
0.358
0.273
0.189
0.104
0.019

Date/Time: 1/08/2008 6:16:12 AM

Test Laboratory: Compliance Certification Services Inc.

802.11a Vertical Edge Touched mode DTS HT40 IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5510 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5510 MHz; σ = 5.82 mho/m; ε_r = 47.7; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

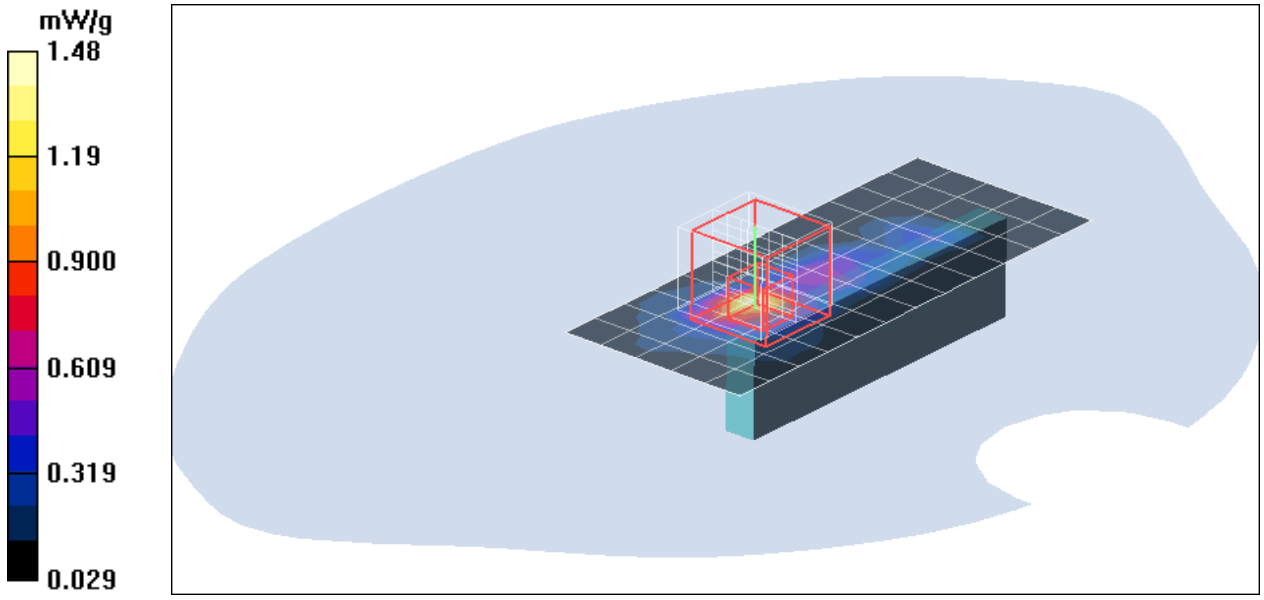
- Probe: EX3DV3 - SN3504; ConvF(3.99, 3.99, 3.99);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

DTS Low CH5510 Rate=13.5M bit/Area Scan (6x13x1): Measurement grid: dx=10mm, dy=10mm

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

DTS Low CH5510 Rate=13.5M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 14.3 V/m; Power Drift = -0.075 dB
Peak SAR (extrapolated) = 5.28 W/kg
SAR(1 g) = 1.360 mW/g; SAR(10 g) = 0.355 mW/g
Maximum value of SAR (measured) = 2.95 mW/g


mW/g
1.48
1.19
0.900
0.609
0.319
0.029

Date/Time: 1/08/2008 6:44:12 AM

Test Laboratory: Compliance Certification Services Inc.

802.11a Vertical Edge Touched mode DTS HT40 IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5590 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5590 MHz; σ = 5.96 mho/m; ε_r = 47.5; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

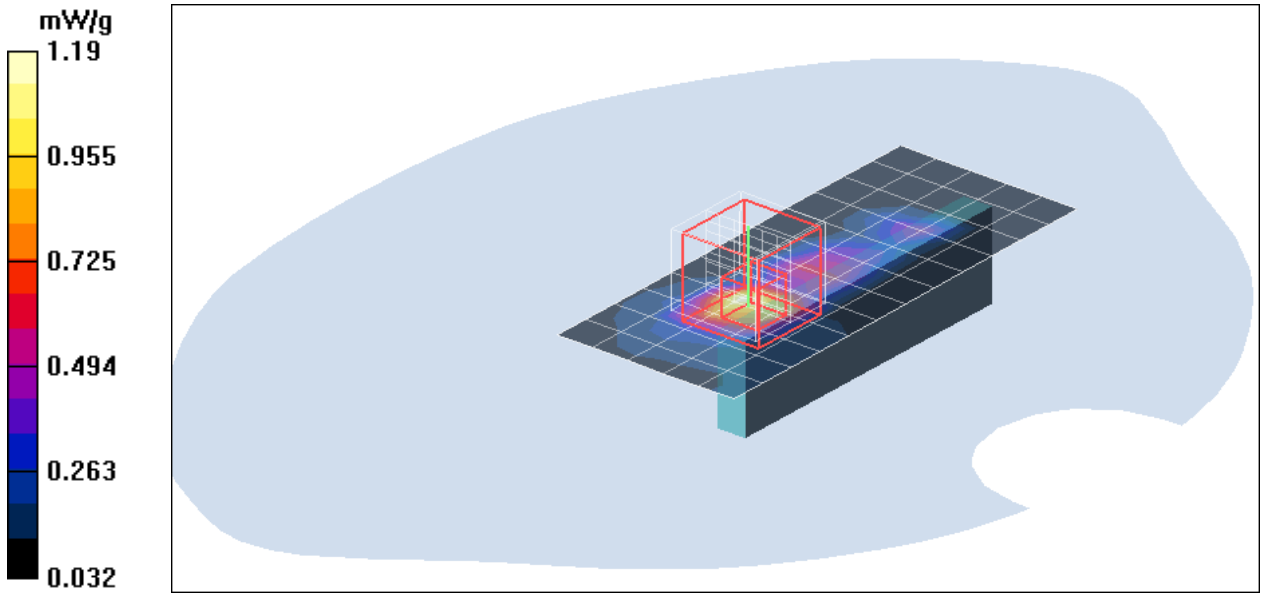
- Probe: EX3DV3 - SN3504; ConvF(4.09, 4.09, 4.09);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

DTS Middle CH5590 Rate=13.5M bit/Area Scan (6x13x1):

Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 1.19 mW/g

DTS Middle CH5590 Rate=13.5M bit/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 14.8 V/m; Power Drift = -0.043 dB
Peak SAR (extrapolated) = 3.55 W/kg
SAR(1 g) = 1.240 mW/g; SAR(10 g) = 0.344 mW/g
Maximum value of SAR (measured) = 2.56 mW/g


mW/g
1.19
0.955
0.725
0.494
0.263
0.032

Date/Time: 1/08/2008 7:13:46 AM

Test Laboratory: Compliance Certification Services Inc.

802.11a Vertical Edge Touched mode DTS HT40 IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5670 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5670 MHz; σ = 6.07 mho/m; ε_r = 47.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

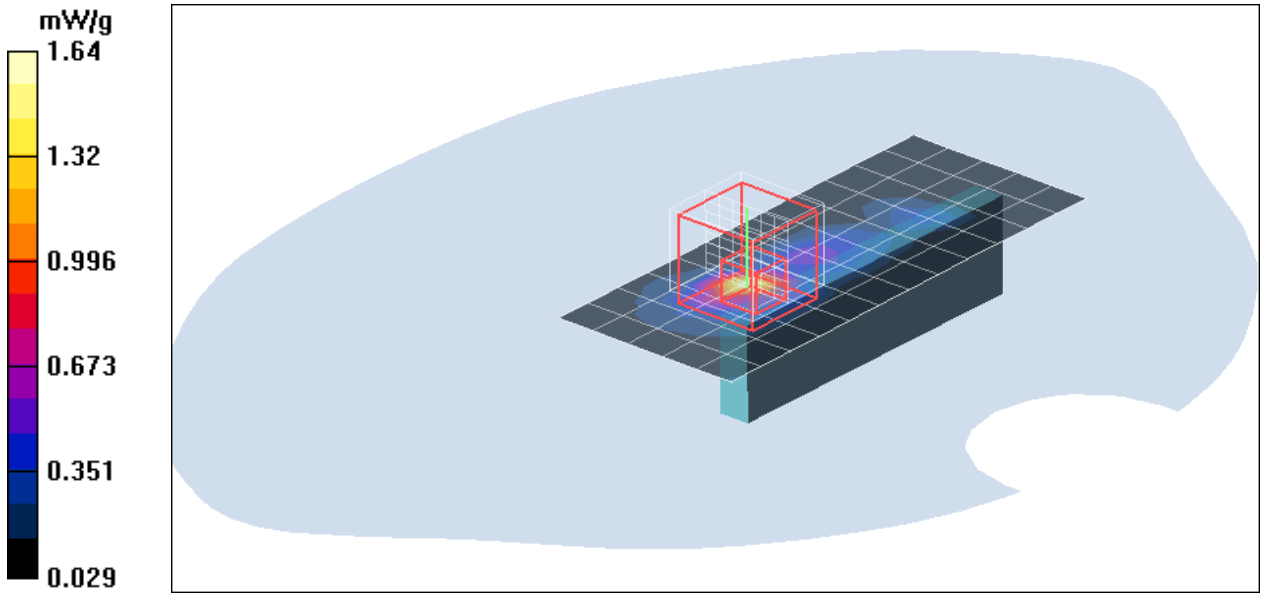
- Probe: EX3DV3 - SN3504; ConvF(4.09, 4.09, 4.09);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

DTS High CH5670 Rate=13.5M bit/Area Scan (6x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.64 mW/g

DTS High CH5670 Rate=13.5M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 13.8 V/m; Power Drift = -0.039 dB
Peak SAR (extrapolated) = 5.18 W/kg
SAR(1 g) = 1.200 mW/g; SAR(10 g) = 0.328 mW/g
Maximum value of SAR (measured) = 2.66 mW/g


mW/g
1.64
1.32
0.996
0.673
0.351
0.029

Date/Time: 1/08/2008 7:39:27 AM

Test Laboratory: Compliance Certification Services Inc.

802.11a Vertical Edge Touched mode DTS HT40 IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5755 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5755 MHz; σ = 6.18 mho/m; ε_r = 47.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

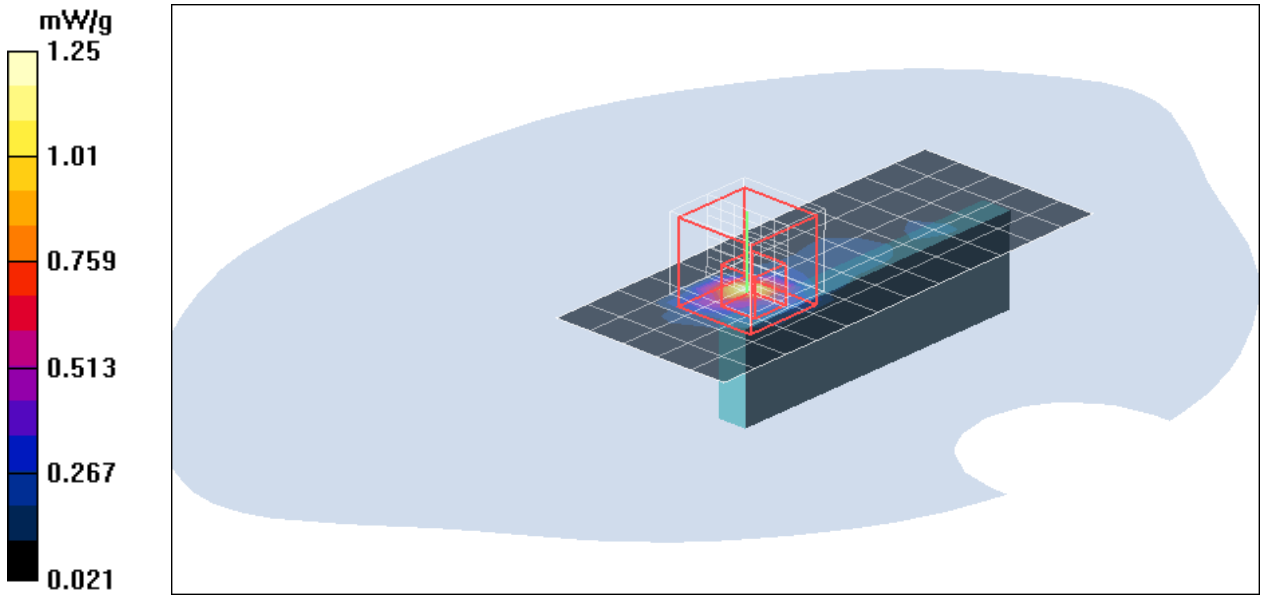
- Probe: EX3DV3 - SN3504; ConvF(4.10, 4.10, 4.10);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

DTS Low CH5755 Rate=13.5M bit/Area Scan (6x13x1): Measurement grid: dx=10mm, dy=10mm

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

DTS Low CH5755 Rate=13.5M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 11.6 V/m; Power Drift = -0.059 dB
Peak SAR (extrapolated) = 4.17 W/kg
SAR(1 g) = 1.050 mW/g; SAR(10 g) = 0.244 mW/g
Maximum value of SAR (measured) = 2.18 mW/g


mW/g
1.25
1.01
0.759
0.513
0.267
0.021

Date/Time: 1/08/2008 8:05:38 AM

Test Laboratory: Compliance Certification Services Inc.

802.11a Vertical Edge Touched mode DTS HT40 IBM T60

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5795 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5795 MHz; σ = 6.22 mho/m; ε_r = 47.1; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.8 deg C;Liquid Temperature:23.8 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

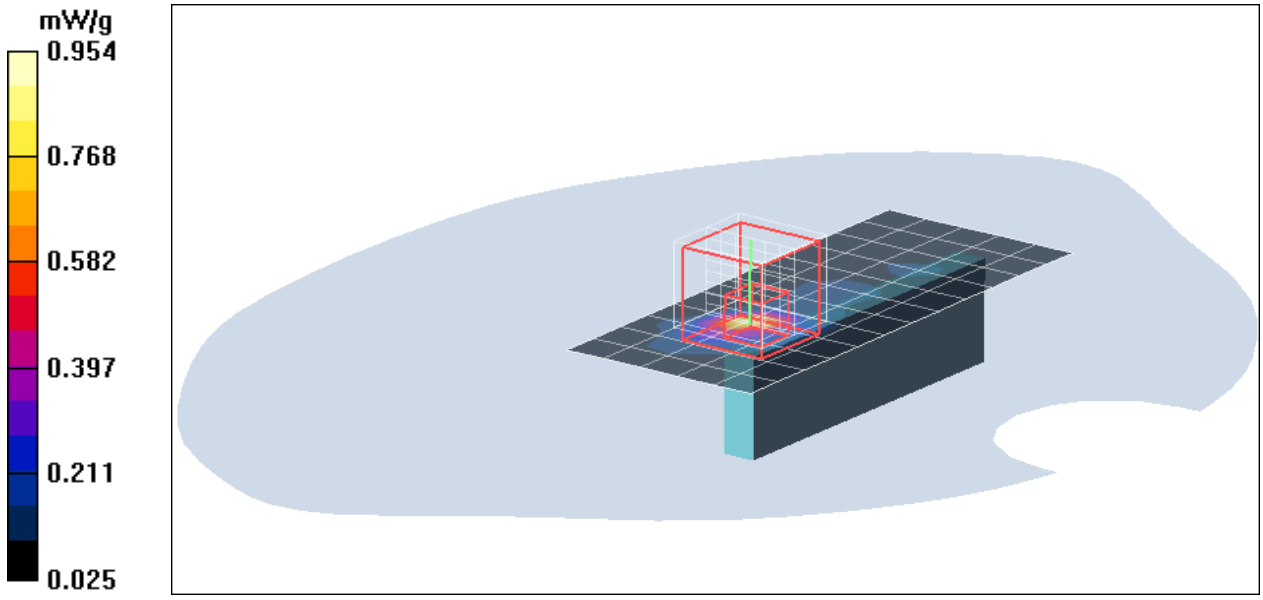
- Probe: EX3DV3 - SN3504; ConvF(4.10, 4.10, 4.10);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

DTS High CH5795 Rate=13.5M bit/Area Scan (6x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.954 mW/g

DTS High CH5795 Rate=13.5M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 10.4 V/m; Power Drift = -0.138 dB
Peak SAR (extrapolated) = 4.30 W/kg
SAR(1 g) = 0.824 mW/g; SAR(10 g) = 0.196 mW/g
Maximum value of SAR (measured) = 1.69 mW/g


mW/g
0.954
0.768
0.582
0.397
0.211
0.025

Date/Time: 1/05/2008 9:20:23 AM

Test Laboratory: Compliance Certification Services Inc.

802.11a Horizontal Bottom Flat Touched mode UNII Dell 640m

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5220 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5220 MHz; σ = 5.35 mho/m; ε_r = 48.6; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.5 deg C;Liquid Temperature:23.5 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

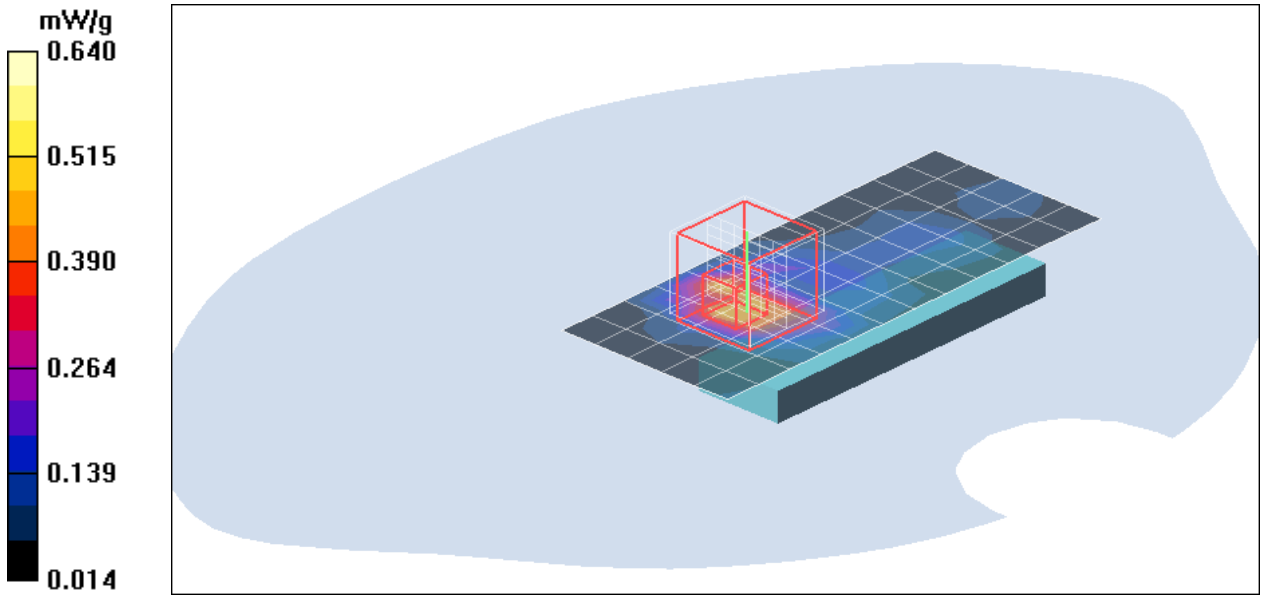
- Probe: EX3DV3 - SN3504; ConvF(4.34, 4.34, 4.34);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

UNII Middle CH5220 Rate=6M bit/Area Scan (6x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.480 mW/g

UNII Middle CH5220 Rate=6M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 10.7 V/m; Power Drift = -0.100 dB
Peak SAR (extrapolated) = 0.957 W/kg
SAR(1 g) = 0.423 mW/g; SAR(10 g) = 0.168 mW/g
Maximum value of SAR (measured) = 0.640 mW/g


mW/g
0.640
0.515
0.390
0.264
0.139
0.014

Date/Time: 1/05/2008 9:59:21 AM

Test Laboratory: Compliance Certification Services Inc.

802.11a Horizontal Bottom Flat Touched mode UNII Dell 640m

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

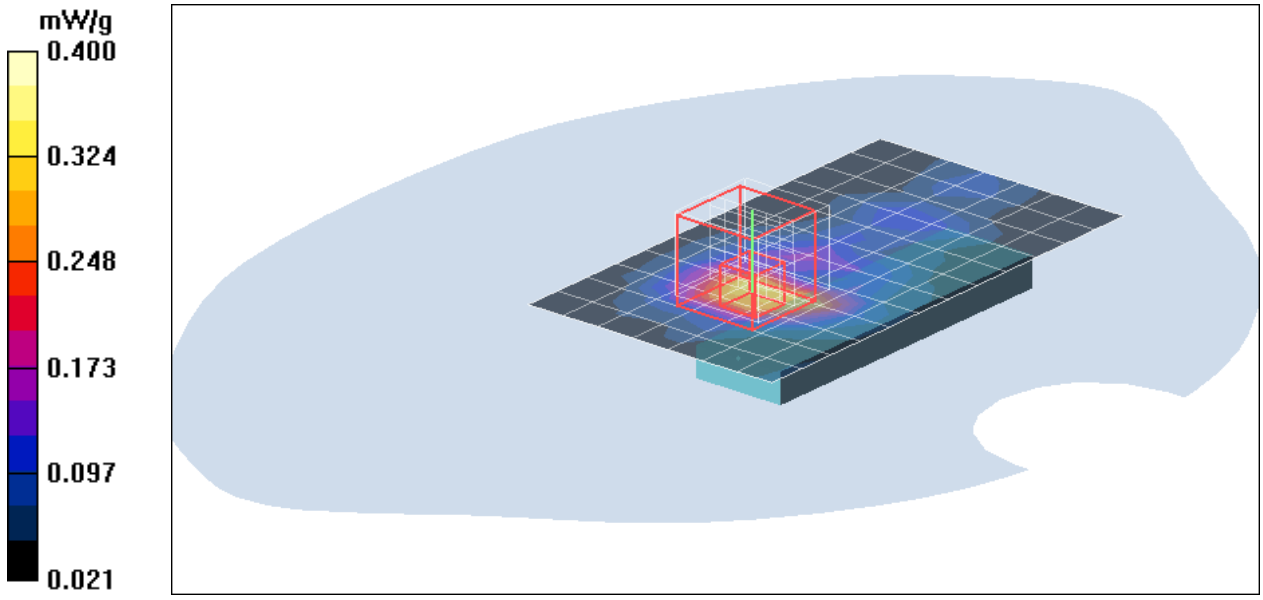
Communication System: IEEE 802.11 A; Frequency: 5280 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5280 MHz; σ = 5.44 mho/m; ε_r = 48.5; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.5 deg C;Liquid Temperature:23.5 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(4.08, 4.08, 4.08);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

UNII High CH5280 Rate=6M bit/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.349 mW/g

UNII High CH5280 Rate=6M bit/Zoom Scan (7x7x9)/Cube 0:
Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 7.91 V/m; Power Drift = -0.132 dB
Peak SAR (extrapolated) = 0.465 W/kg
SAR(1 g) = 0.250 mW/g; SAR(10 g) = 0.115 mW/g
Maximum value of SAR (measured) = 0.400 mW/g


mW/g
0.400
0.324
0.248
0.173
0.097
0.021

Date/Time: 1/05/2008 10:42:39 AM

Test Laboratory: Compliance Certification Services Inc.

802.11a Horizontal Bottom Flat Touched mode DTS Dell 640m

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5600 MHz; σ = 5.92 mho/m; ε_r = 47.8; ρ = 1000 kg/m^3

Phantom section: Flat Section
Air Temperature:24.5 deg C;Liquid Temperature:23.5 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

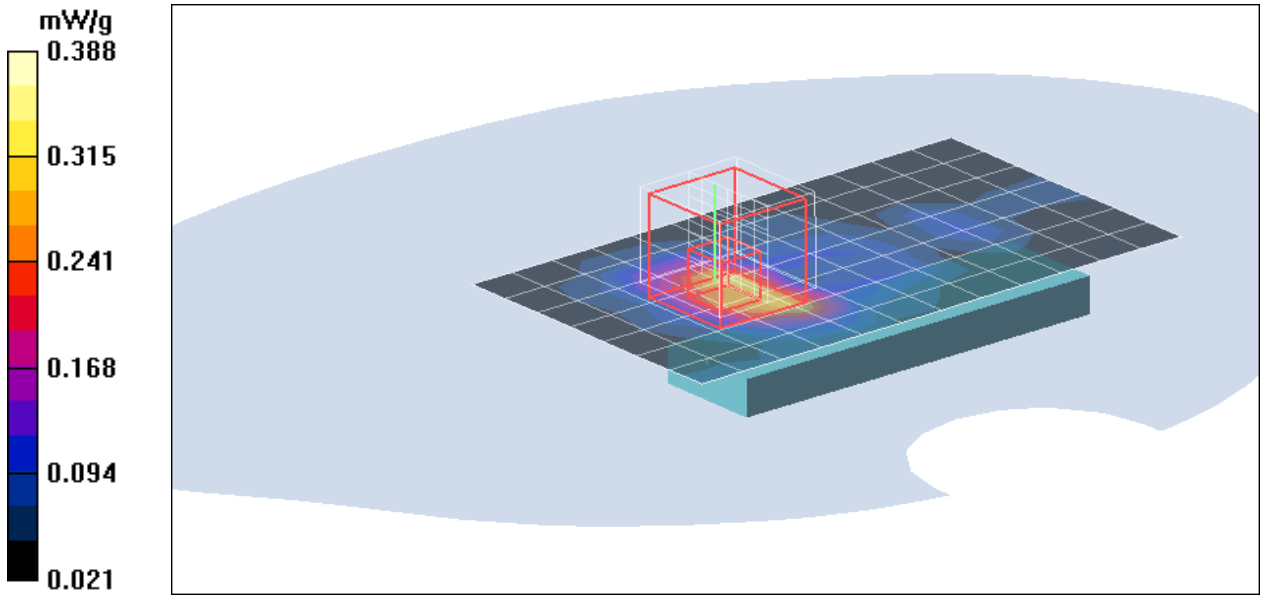
- Probe: EX3DV3 - SN3504; ConvF(4.09, 4.09, 4.09);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

DTS Middle CH5600 Rate=6M bit/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.337 mW/g

DTS Middle CH5600 Rate=6M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 7.32 V/m; Power Drift = -0.133 dB
Peak SAR (extrapolated) = 0.529 W/kg
SAR(1 g) = 0.245 mW/g; SAR(10 g) = 0.113 mW/g
Maximum value of SAR (measured) = 0.388 mW/g


mW/g
0.388
0.315
0.241
0.168
0.094
0.021

Date/Time: 1/05/2008 11:27:52 AM

Test Laboratory: Compliance Certification Services Inc.

802.11a Horizontal Bottom Flat Touched mode DTS Dell 640m

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5785 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5785 MHz; σ = 6.17 mho/m; ε_r = 47.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.5 deg C;Liquid Temperature:23.5 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(4.10, 4.10, 4.10);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

DTS High CH5785 Rate=6M bit/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm

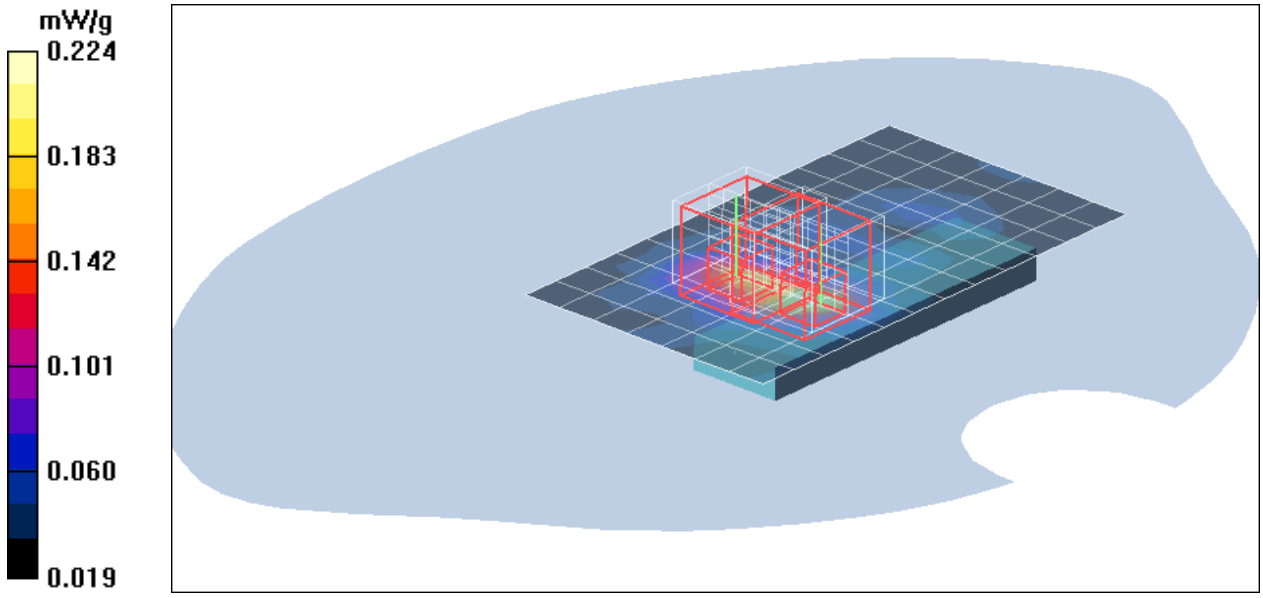
Maximum value of SAR (measured) = 0.224 mW/g

DTS High CH5785 Rate=6M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 5.36 V/m; Power Drift = -0.146 dB
Peak SAR (extrapolated) = 0.428 W/kg
SAR(1 g) = 0.145 mW/g; SAR(10 g) = 0.068 mW/g
Maximum value of SAR (measured) = 0.219 mW/g

DTS High CH5785 Rate=6M bit/Zoom Scan (7x7x9)/Cube 1:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 5.36 V/m; Power Drift = -0.146 dB
Peak SAR (extrapolated) = 0.344 W/kg
SAR(1 g) = 0.130 mW/g; SAR(10 g) = 0.067 mW/g
Maximum value of SAR (measured) = 0.202 mW/g


mW/g
0.224
0.183
0.142
0.101
0.060
0.019

Date/Time: 1/05/2008 12:04:44 PM

Test Laboratory: Compliance Certification Services Inc.

802.11a Horizontal Bottom Flat Touched mode HT20 UNII Dell 640m

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5220 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5220 MHz; σ = 5.35 mho/m; ε_r = 48.6; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.5 deg C;Liquid Temperature:23.5 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

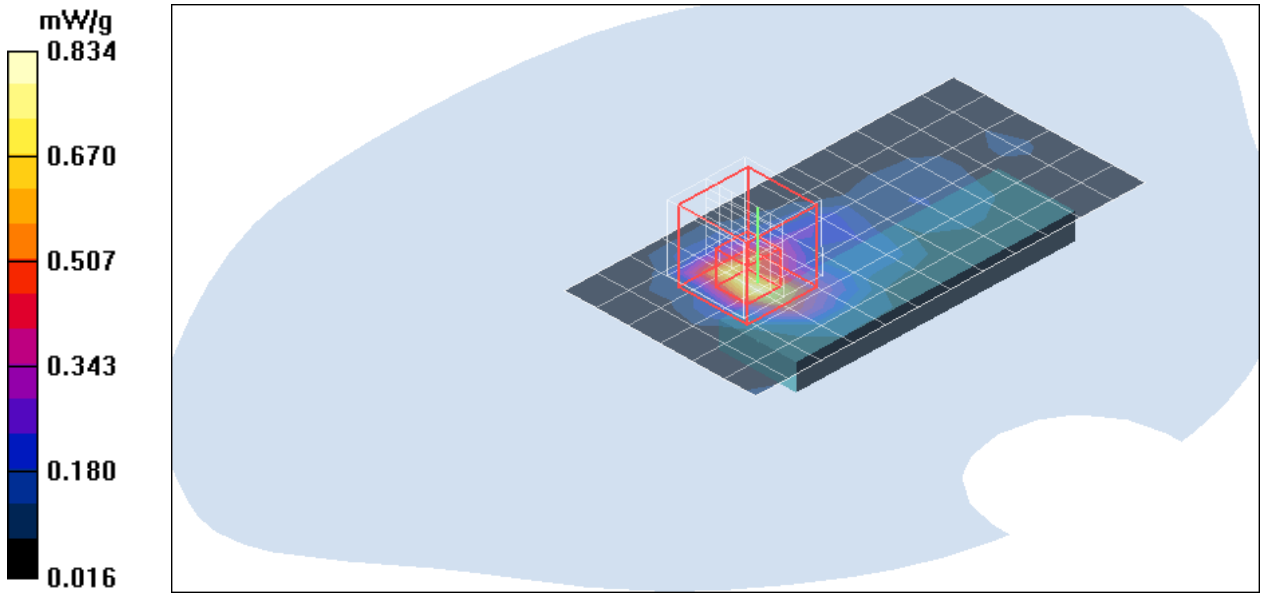
- Probe: EX3DV3 - SN3504; ConvF(4.34, 4.34, 4.34);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

UNII Middle CH5220 Rate=6.5M bit/Area Scan (7x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.801 mW/g

UNII Middle CH5220 Rate=6.5M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 12.6 V/m; Power Drift = -0.057 dB
Peak SAR (extrapolated) = 1.09 W/kg
SAR(1 g) = 0.518 mW/g; SAR(10 g) = 0.206 mW/g
Maximum value of SAR (measured) = 0.834 mW/g


mW/g
0.834
0.670
0.507
0.343
0.180
0.016

Date/Time: 1/05/2008 12:46:07 PM

Test Laboratory: Compliance Certification Services Inc.

802.11a Horizontal Bottom Flat Touched mode HT20 UNII Dell 640m

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5280 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5280 MHz; σ = 5.44 mho/m; ε_r = 48.5; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.5 deg C;Liquid Temperature:23.5 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

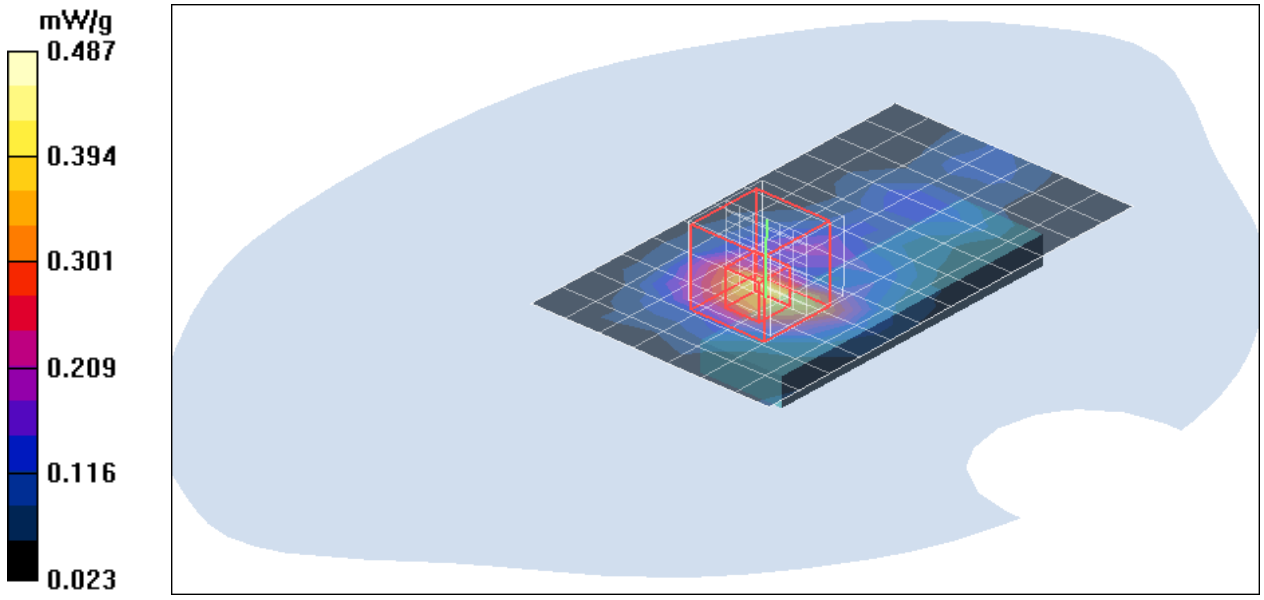
- Probe: EX3DV3 - SN3504; ConvF(4.08, 4.08, 4.08);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

UNII middle CH5280 Rate=6.5M bit/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.413 mW/g

UNII middle CH5280 Rate=6.5M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 9.03 V/m; Power Drift = -0.133 dB
Peak SAR (extrapolated) = 0.807 W/kg
SAR(1 g) = 0.322 mW/g; SAR(10 g) = 0.145 mW/g
Maximum value of SAR (measured) = 0.487 mW/g


mW/g
0.487
0.394
0.301
0.209
0.116
0.023

Date/Time: 1/05/2008 1:32:34 PM

Test Laboratory: Compliance Certification Services Inc.

802.11a Horizontal Bottom Flat Touched mode HT20 DTS Dell 640m

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5600 MHz; σ = 5.92 mho/m; ε_r = 47.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.5 deg C;Liquid Temperature:23.5 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

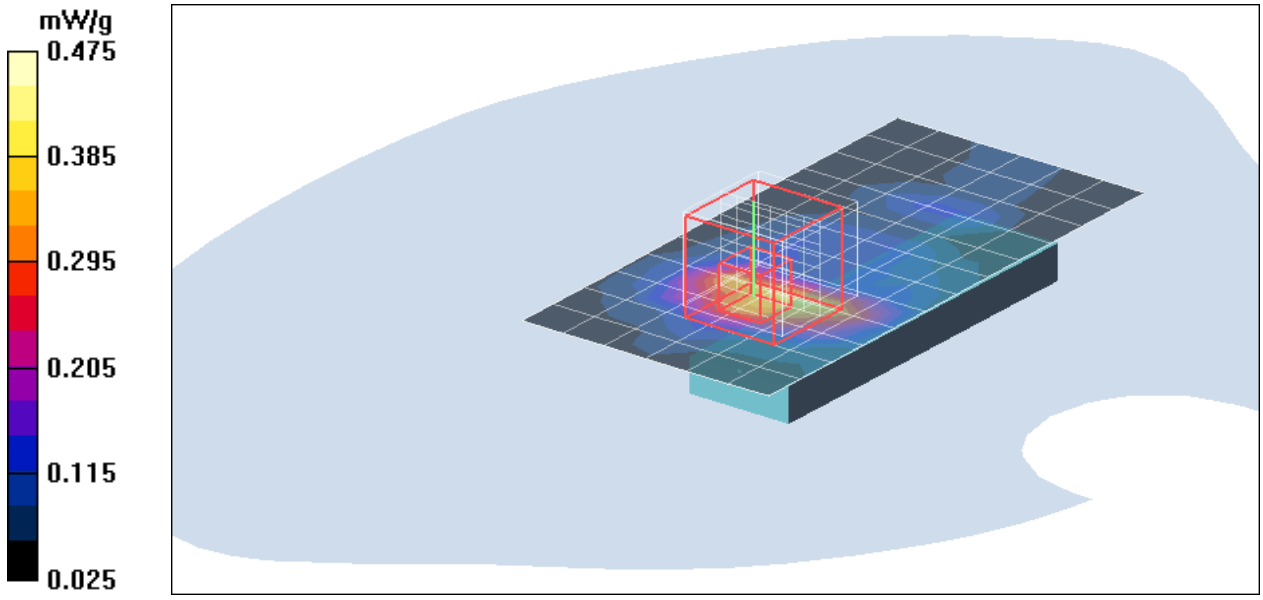
- Probe: EX3DV3 - SN3504; ConvF(4.09, 4.09, 4.09);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

DTS Middle CH5600 Rate=6.5M bit/Area Scan (7x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.394 mW/g

DTS Middle CH5600 Rate=6.5M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 8.68 V/m; Power Drift = -0.058 dB
Peak SAR (extrapolated) = 0.619 W/kg
SAR(1 g) = 0.303 mW/g; SAR(10 g) = 0.134 mW/g
Maximum value of SAR (measured) = 0.475 mW/g


mW/g
0.475
0.385
0.295
0.205
0.115
0.025

Date/Time: 1/05/2008 2:14:55 PM

Test Laboratory: Compliance Certification Services Inc.

802.11a Horizontal Bottom Flat Touched mode HT20 DTS Dell 640m

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5785 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5785 MHz; σ = 6.17 mho/m; ε_r = 47.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.5 deg C;Liquid Temperature:23.5 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(4.10, 4.10, 4.10);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

DTS middle CH5785 Rate=6.5M bit/Area Scan (7x13x1):

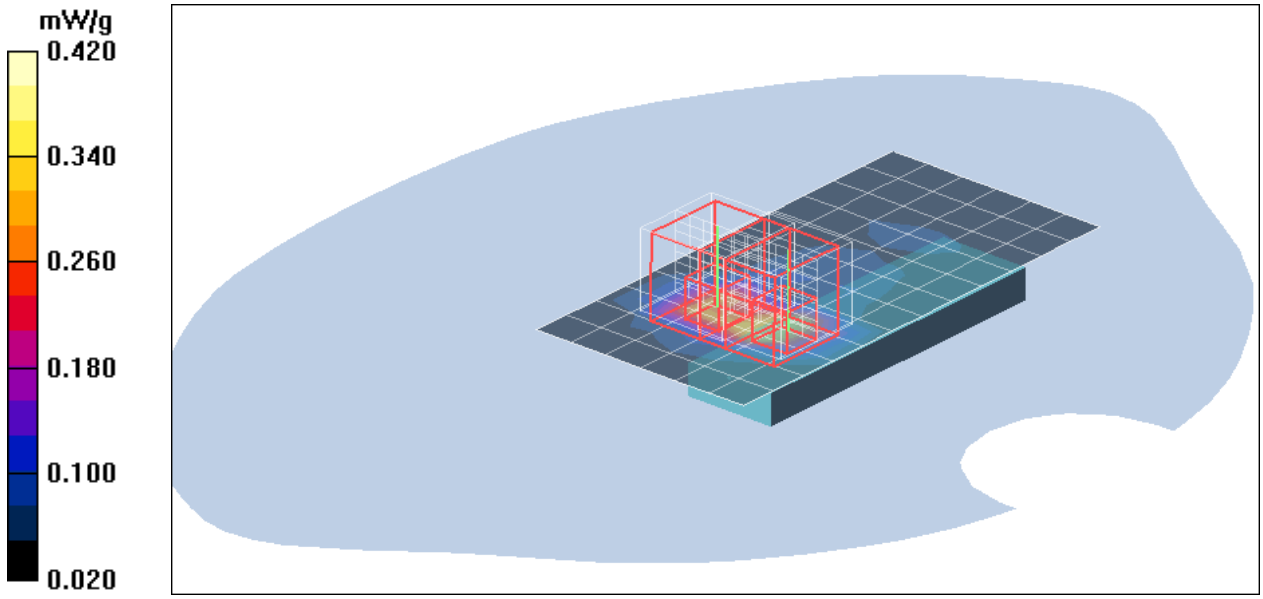
Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.369 mW/g

DTS middle CH5785 Rate=6.5M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 7.68 V/m; Power Drift = -0.074 dB
Peak SAR (extrapolated) = 0.859 W/kg
SAR(1 g) = 0.283 mW/g; SAR(10 g) = 0.109 mW/g
Maximum value of SAR (measured) = 0.520 mW/g

DTS middle CH5785 Rate=6.5M bit/Zoom Scan (7x7x9)/Cube 1:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 7.68 V/m; Power Drift = -0.074 dB
Peak SAR (extrapolated) = 0.682 W/kg
SAR(1 g) = 0.259 mW/g; SAR(10 g) = 0.106 mW/g
Maximum value of SAR (measured) = 0.420 mW/g


mW/g
0.420
0.340
0.260
0.180
0.100
0.020

Date/Time: 1/06/2008 3:01:00 AM

Test Laboratory: Compliance Certification Services Inc.

802.11a Horizontal Bottom Flat Touched mode HT40 UNII Dell 640m

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5190 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5190 MHz; σ = 5.31 mho/m; ε_r = 48.6; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.5 deg C;Liquid Temperature:23.5 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(4.34, 4.34, 4.34);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

UNII Low CH5190 Rate=13.5M bit/Area Scan (8x13x1):

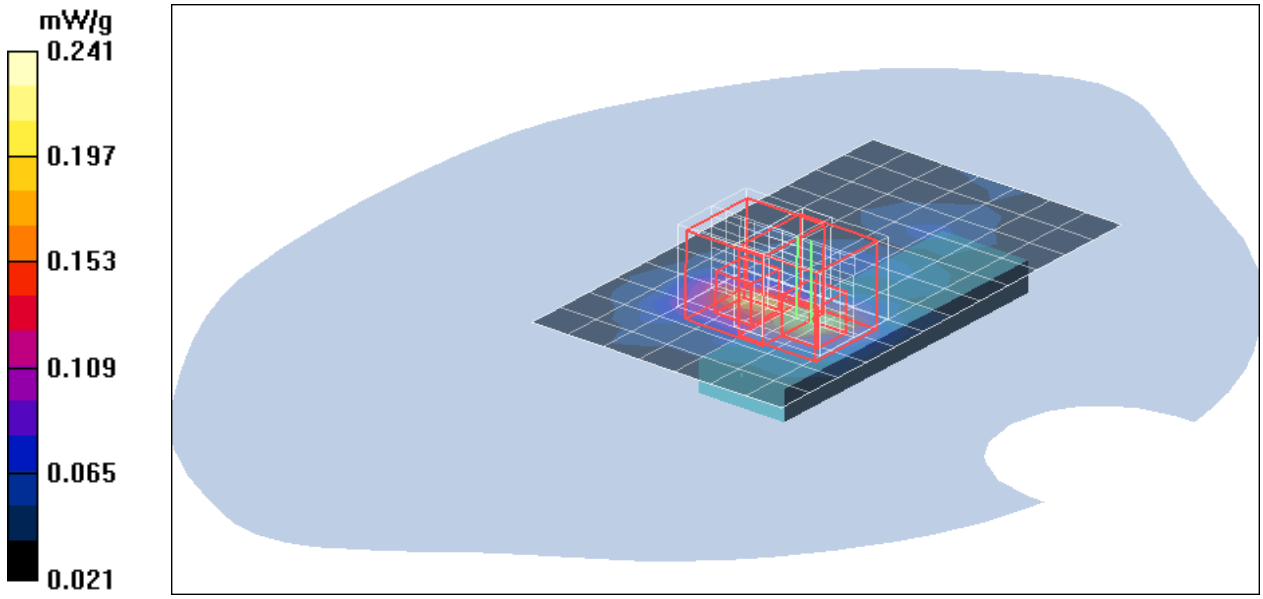
Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.227 mW/g

UNII Low CH5190 Rate=13.5M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 6.35 V/m; Power Drift = -0.079 dB
Peak SAR (extrapolated) = 0.432 W/kg
SAR(1 g) = 0.182 mW/g; SAR(10 g) = 0.081 mW/g
Maximum value of SAR (measured) = 0.241 mW/g

UNII Low CH5190 Rate=13.5M bit/Zoom Scan (7x7x9)/Cube 1:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 6.35 V/m; Power Drift = -0.079 dB
Peak SAR (extrapolated) = 0.361 W/kg
SAR(1 g) = 0.153 mW/g; SAR(10 g) = 0.078 mW/g
Maximum value of SAR (measured) = 0.212 mW/g


mW/g
0.241
0.197
0.153
0.109
0.065
0.021

Date/Time: 1/05/2008 3:01:54 PM

Test Laboratory: Compliance Certification Services Inc.

802.11a Horizontal Bottom Flat Touched mode HT40 UNII Dell 640m

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5270 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5270 MHz; σ = 5.42 mho/m; ε_r = 48.5; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.5 deg C;Liquid Temperature:23.5 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

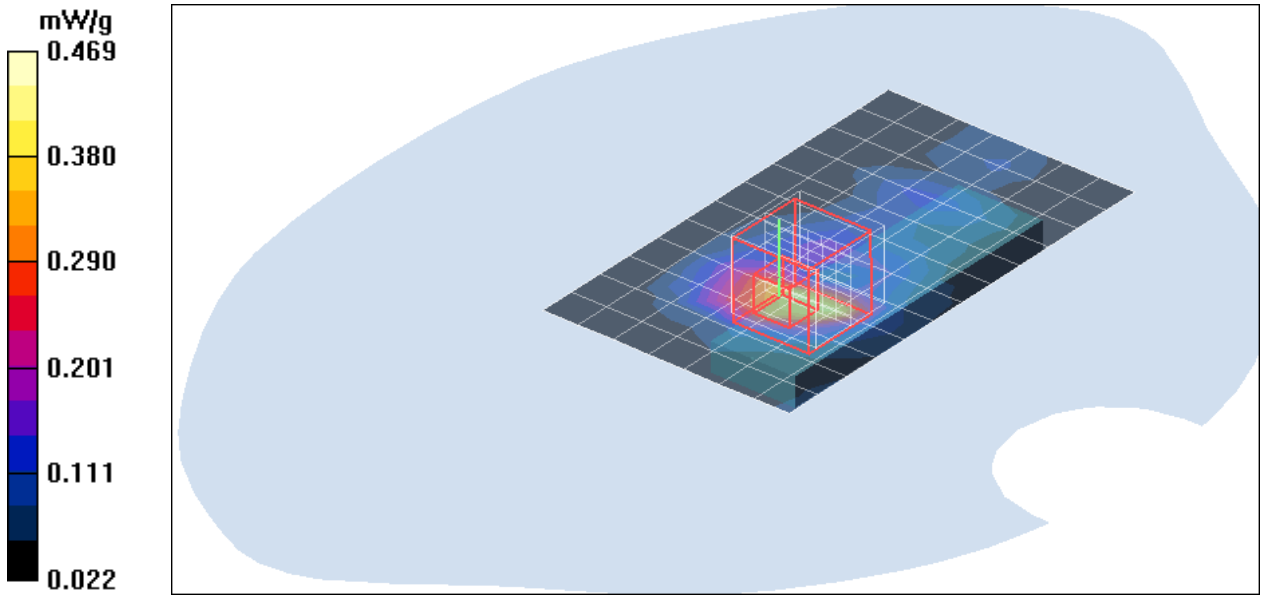
- Probe: EX3DV3 - SN3504; ConvF(4.08, 4.08, 4.08);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

UNII Middle CH5270 Rate=13.5M bit/Area Scan (8x13x1):

Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.395 mW/g

UNII Middle CH5270 Rate=13.5M bit/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 8.32 V/m; Power Drift = -0.070 dB
Peak SAR (extrapolated) = 0.719 W/kg
SAR(1 g) = 0.293 mW/g; SAR(10 g) = 0.119 mW/g
Maximum value of SAR (measured) = 0.469 mW/g


mW/g
0.469
0.380
0.290
0.201
0.111
0.022

Date/Time: 1/06/2008 2:50:42 AM

Test Laboratory: Compliance Certification Services Inc.

802.11a Horizontal Bottom Flat Touched mode DTS HT40 Dell 640m

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5590 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5590 MHz; σ = 5.92 mho/m; ε_r = 47.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.5 deg C;Liquid Temperature:23.5 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(4.09, 4.09, 4.09);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

DTS Middle CH5590 Rate=13.5M bit/Area Scan (8x13x1):

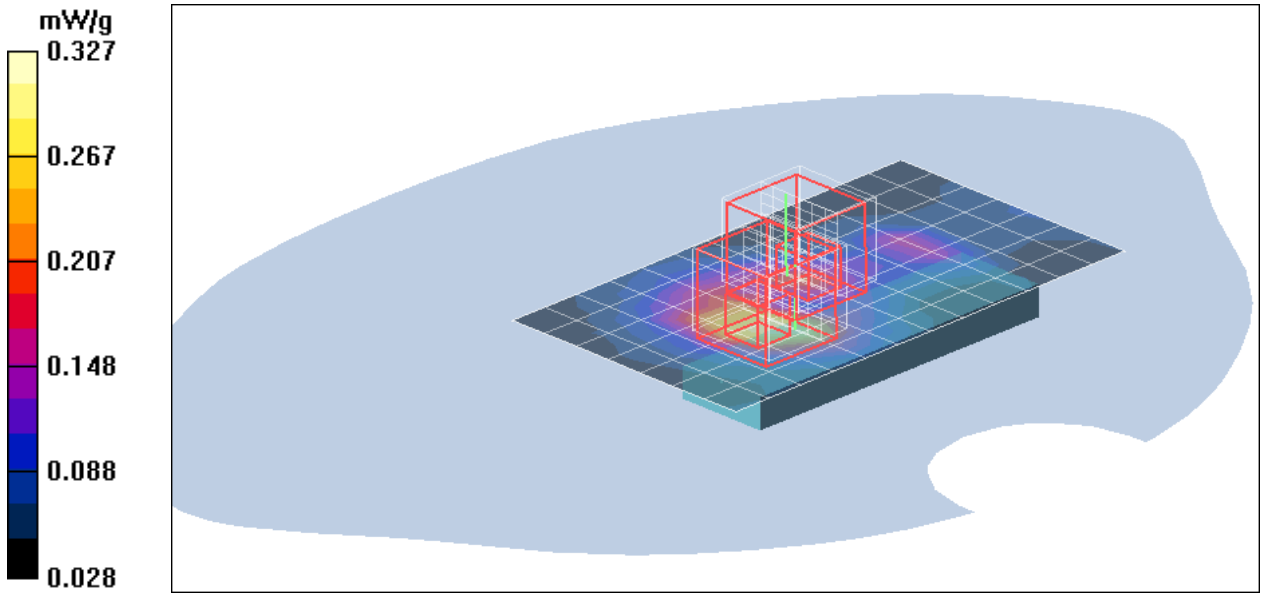
Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.299 mW/g

DTS Middle CH5590 Rate=13.5M bit/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 8.10 V/m; Power Drift = -0.063 dB
Peak SAR (extrapolated) = 0.434 W/kg
SAR(1 g) = 0.225 mW/g; SAR(10 g) = 0.111 mW/g
Maximum value of SAR (measured) = 0.327 mW/g

DTS Middle CH5590 Rate=13.5M bit/Zoom Scan (7x7x9)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 8.10 V/m; Power Drift = -0.063 dB
Peak SAR (extrapolated) = 0.243 W/kg
SAR(1 g) = 0.136 mW/g; SAR(10 g) = 0.073 mW/g
Maximum value of SAR (measured) = 0.197 mW/g


mW/g
0.327
0.267
0.207
0.148
0.088
0.028

Date/Time: 1/05/2007 3:01:09 PM

Test Laboratory: Compliance Certification Services Inc.

802.11a Horizontal Bottom Flat Touched mode HT40 DTS Dell 640m

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5755 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5755 MHz; σ = 6.14 mho/m; ε_r = 47.5; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.5 deg C;Liquid Temperature:23.5 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(4.10, 4.10, 4.10);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

DTS Low CH5755 Rate=13.5M bit/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm

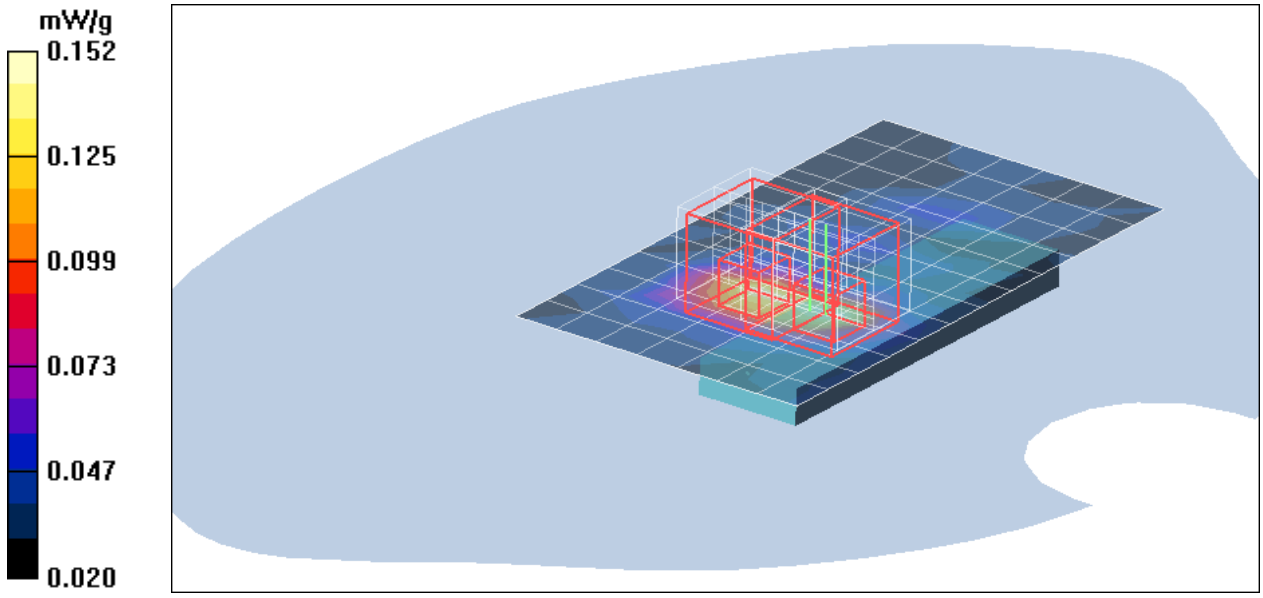
Maximum value of SAR (measured) = 0.152 mW/g

DTS High CH5755 Rate=13.5M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 5.11 V/m; Power Drift = -0.042 dB
Peak SAR (extrapolated) = 0.265 W/kg
SAR(1 g) = 0.105 mW/g; SAR(10 g) = 0.056 mW/g
Maximum value of SAR (measured) = 0.154 mW/g

DTS High CH57595 Rate=13.5M bit/Zoom Scan (7x7x9)/Cube 1:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 5.11 V/m; Power Drift = -0.042 dB
Peak SAR (extrapolated) = 0.258 W/kg
SAR(1 g) = 0.101 mW/g; SAR(10 g) = 0.054 mW/g
Maximum value of SAR (measured) = 0.151 mW/g


mW/g
0.152
0.125
0.099
0.073
0.047
0.020

Date/Time: 1/05/2008 3:48:00 PM

Test Laboratory: Compliance Certification Services Inc.

802.11a Horizontal Bottom Flat Touched mode HT40 DTS Dell 640m

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5795 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5795 MHz; σ = 6.18 mho/m; ε_r = 47.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.5 deg C;Liquid Temperature:23.5 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(4.10, 4.10, 4.10);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

DTS High CH5795 Rate=13.5M bit/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm

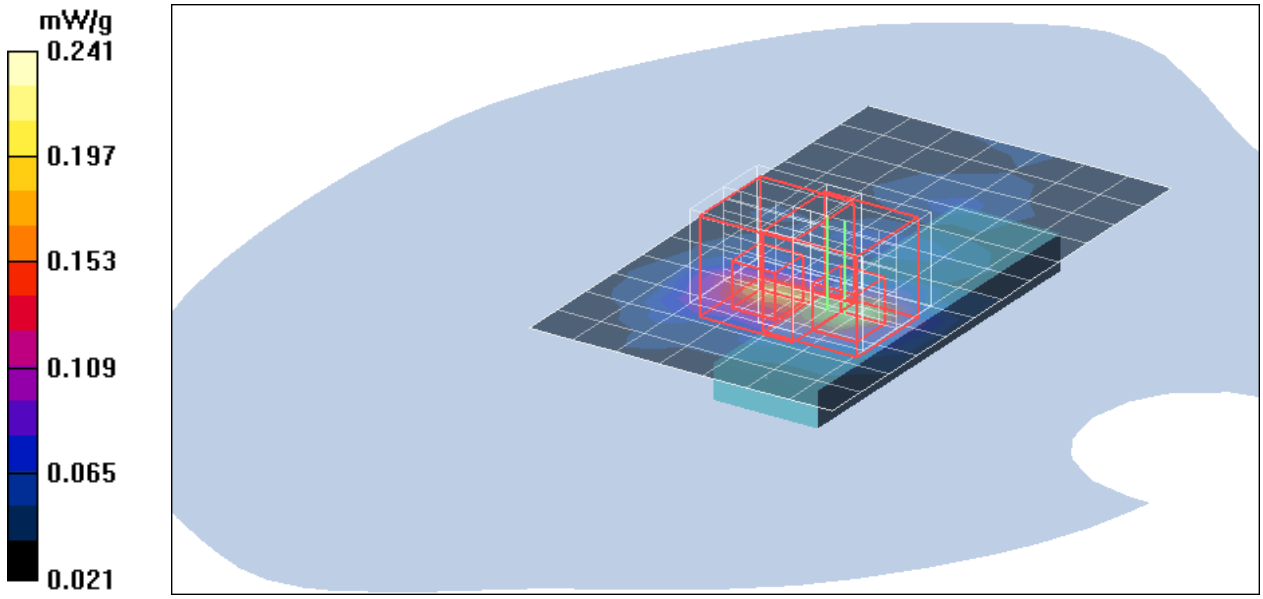
Maximum value of SAR (measured) = 0.227 mW/g

DTS High CH5795 Rate=13.5M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 5.35 V/m; Power Drift = -0.069 dB
Peak SAR (extrapolated) = 0.425 W/kg
SAR(1 g) = 0.151 mW/g; SAR(10 g) = 0.072 mW/g
Maximum value of SAR (measured) = 0.241 mW/g

DTS High CH5795 Rate=13.5M bit/Zoom Scan (7x7x9)/Cube 1:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 5.35 V/m; Power Drift = -0.169 dB
Peak SAR (extrapolated) = 0.354 W/kg
SAR(1 g) = 0.137 mW/g; SAR(10 g) = 0.070 mW/g
Maximum value of SAR (measured) = 0.212 mW/g


mW/g
0.241
0.197
0.153
0.109
0.065
0.021

Date/Time: 1/05/2008 4:09:22 PM

Test Laboratory: Compliance Certification Services Inc.

802.11a Horizontal Bottom Flat Touched mode UNII ASUS M5200AE

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5220 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5220 MHz; σ = 5.35 mho/m; ε_r = 48.6; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.5 deg C;Liquid Temperature:23.5 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

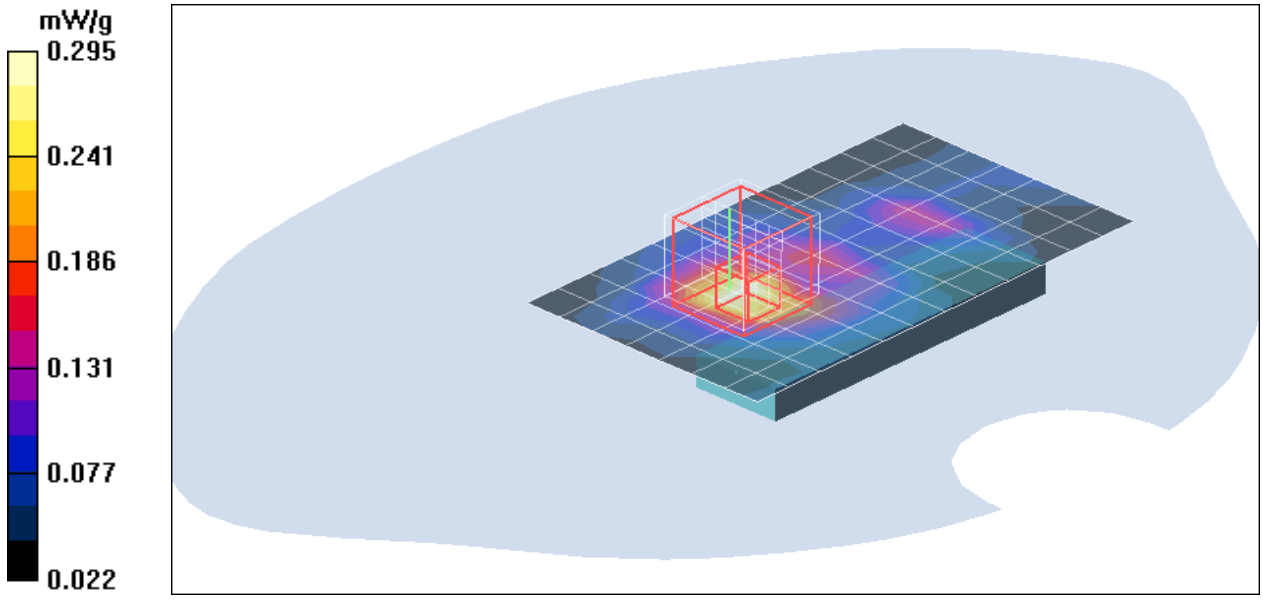
- Probe: EX3DV3 - SN3504; ConvF(4.34, 4.34, 4.34);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

UNII Middle CH5220 Rate=6M bit/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.295 mW/g

UNII Middle CH5220 Rate=6M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 7.65 V/m; Power Drift = -0.144 dB
Peak SAR (extrapolated) = 0.448 W/kg
SAR(1 g) = 0.216 mW/g; SAR(10 g) = 0.107 mW/g
Maximum value of SAR (measured) = 0.318 mW/g


mW/g
0.295
0.241
0.186
0.131
0.077
0.022

Date/Time: 1/05/2008 4:52:48 PM

Test Laboratory: Compliance Certification Services Inc.

802.11a Horizontal Bottom Flat Touched mode UNII ASUS M5200AE

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5280 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5280 MHz; σ = 5.44 mho/m; ε_r = 48.5; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.5 deg C;Liquid Temperature:23.5 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

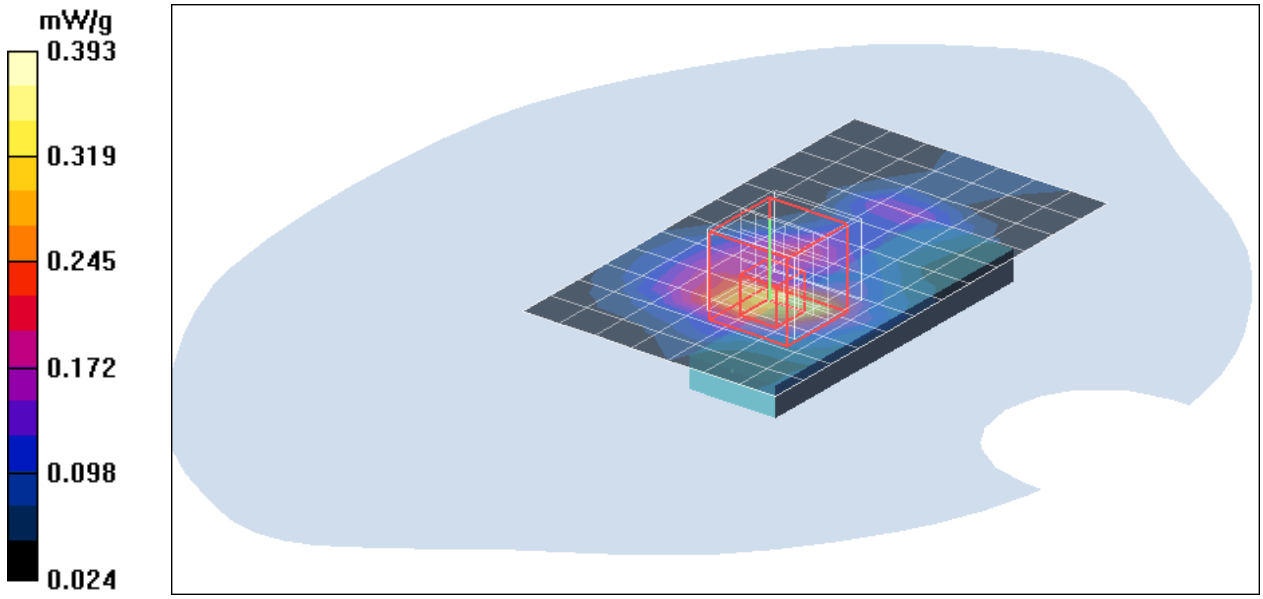
- Probe: EX3DV3 - SN3504; ConvF(4.08, 4.08, 4.08);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

UNII High CH5280 Rate=6M bit/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.335 mW/g

UNII High CH5280 Rate=6M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 8.00 V/m; Power Drift = -0.094 dB
Peak SAR (extrapolated) = 0.544 W/kg
SAR(1 g) = 0.249 mW/g; SAR(10 g) = 0.114 mW/g
Maximum value of SAR (measured) = 0.393 mW/g


mW/g
0.393
0.319
0.245
0.172
0.098
0.024

Date/Time: 1/05/2008 5:39:09 PM

Test Laboratory: Compliance Certification Services Inc.

802.11a Horizontal Bottom Flat Touched mode DTS ASUS M5200AE

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5600 MHz; σ = 5.92 mho/m; ε_r = 47.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.5 deg C;Liquid Temperature:23.5 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

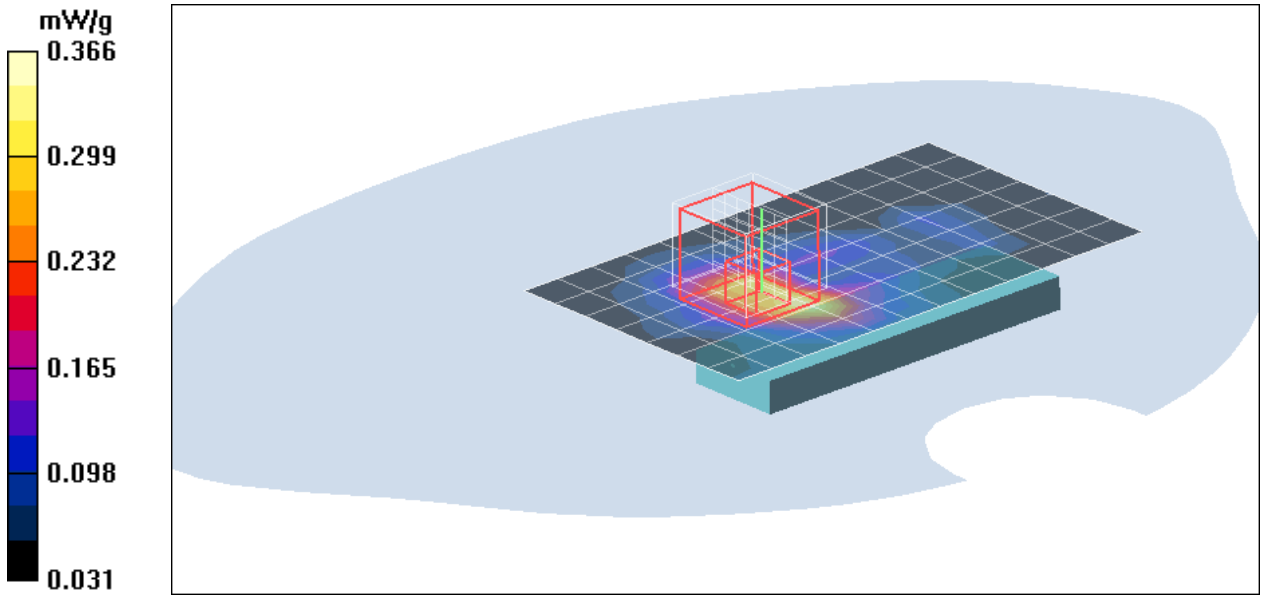
- Probe: EX3DV3 - SN3504; ConvF(4.09, 4.09, 4.09);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

DTS Middle CH5600 Rate=6M bit/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.350 mW/g

DTS Middle CH5600 Rate=6M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 7.33 V/m; Power Drift = -0.123 dB
Peak SAR (extrapolated) = 0.509 W/kg
SAR(1 g) = 0.233 mW/g; SAR(10 g) = 0.112 mW/g
Maximum value of SAR (measured) = 0.366 mW/g


mW/g
0.366
0.299
0.232
0.165
0.098
0.031

Date/Time: 1/05/2008 6:28:30 PM

Test Laboratory: Compliance Certification Services Inc.

802.11a Horizontal Bottom Flat Touched mode DTS ASUS M5200AE

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5785 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5785 MHz; σ = 6.17 mho/m; ε_r = 47.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.5 deg C;Liquid Temperature:23.5 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(4.10, 4.10, 4.10);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

DTS High CH5785 Rate=6M bit/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm

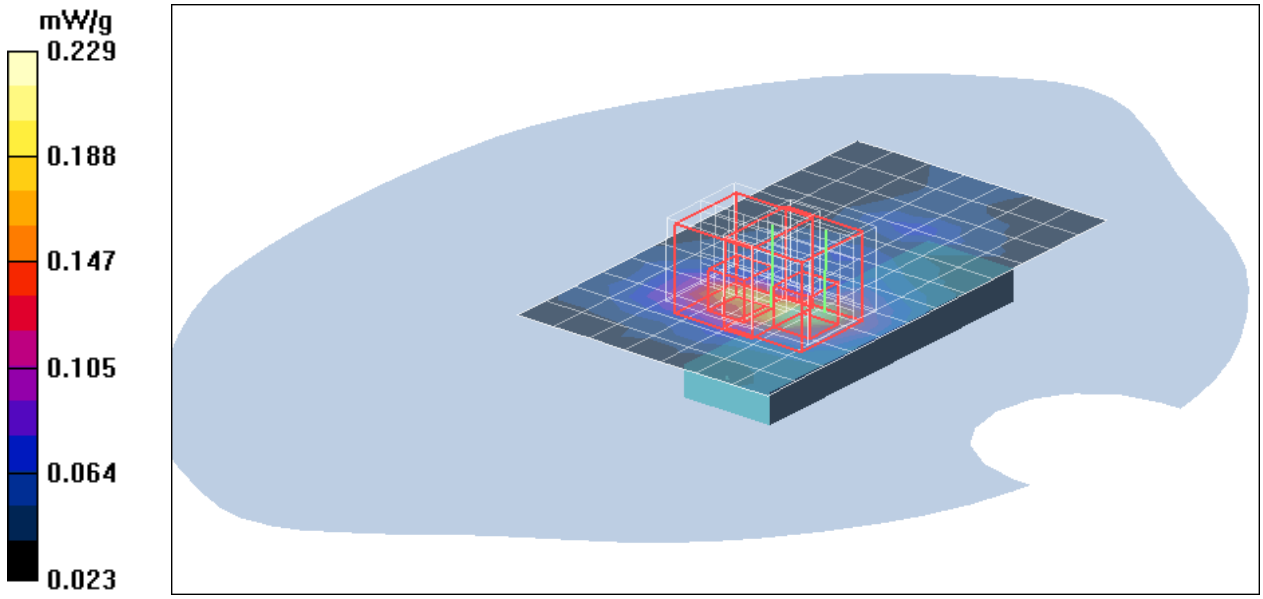
Maximum value of SAR (measured) = 0.229 mW/g

DTS High CH5785 Rate=6M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 5.46 V/m; Power Drift = -0.138 dB
Peak SAR (extrapolated) = 0.318 W/kg
SAR(1 g) = 0.140 mW/g; SAR(10 g) = 0.075 mW/g
Maximum value of SAR (measured) = 0.207 mW/g

DTS High CH5785 Rate=6M bit/Zoom Scan (7x7x9)/Cube 1:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 5.46 V/m; Power Drift = -0.138 dB
Peak SAR (extrapolated) = 0.272 W/kg
SAR(1 g) = 0.129 mW/g; SAR(10 g) = 0.074 mW/g
Maximum value of SAR (measured) = 0.185 mW/g


mW/g
0.229
0.188
0.147
0.105
0.064
0.023

Date/Time: 1/05/2008 7:22:19 PM

Test Laboratory: Compliance Certification Services Inc.

802.11a Horizontal Bottom Flat Touched mode UNII HT20 ASUS M5200AE

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5220 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5220 MHz; σ = 5.35 mho/m; ε_r = 48.6; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.5 deg C;Liquid Temperature:23.5 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(4.34, 4.34, 4.34);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

UNII Middle CH5220 Rate=6.5M bit/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm

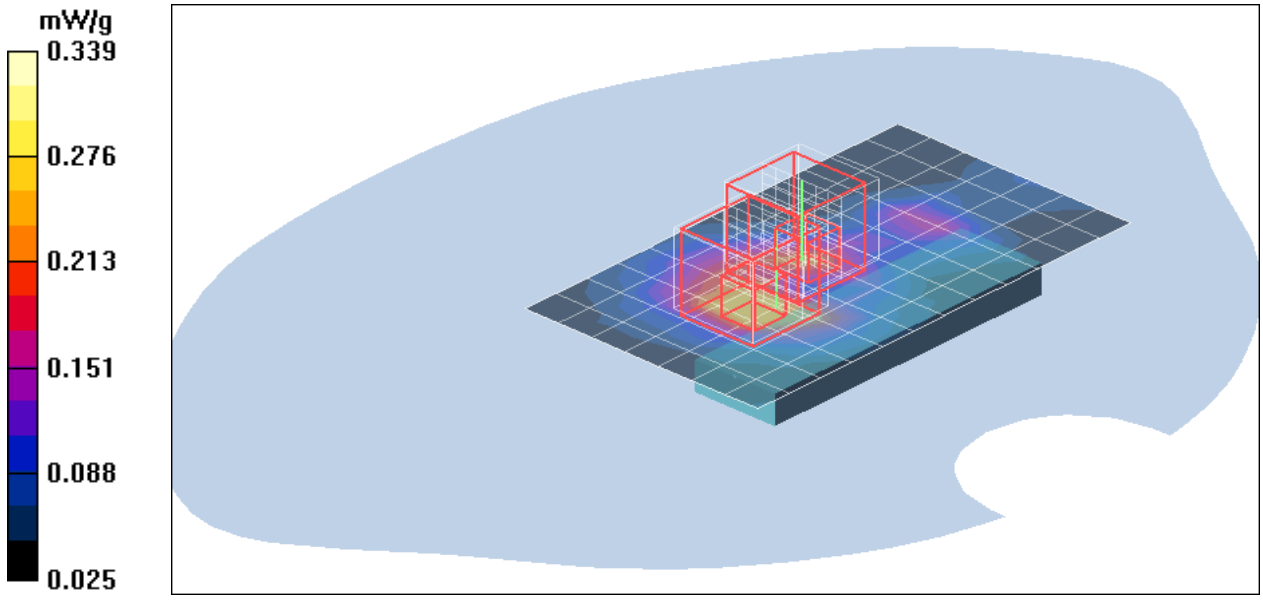
Maximum value of SAR (measured) = 0.278 mW/g

UNII Middle CH5220 Rate=6.5M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 7.94 V/m; Power Drift = -0.036 dB
Peak SAR (extrapolated) = 0.429 W/kg
SAR(1 g) = 0.222 mW/g; SAR(10 g) = 0.111 mW/g
Maximum value of SAR (measured) = 0.339 mW/g

UNII Middle CH5220 Rate=6.5M bit/Zoom Scan (7x7x9)/Cube 1:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 7.94 V/m; Power Drift = -0.036 dB
Peak SAR (extrapolated) = 0.303 W/kg
SAR(1 g) = 0.160 mW/g; SAR(10 g) = 0.084 mW/g
Maximum value of SAR (measured) = 0.233 mW/g


mW/g
0.339
0.276
0.213
0.151
0.088
0.025

Date/Time: 1/05/2008 8:18:24 PM

Test Laboratory: Compliance Certification Services Inc.

802.11a Horizontal Bottom Flat Touched mode UNII HT20 ASUS M5200AE

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5280 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5280 MHz; σ = 5.44 mho/m; ε_r = 48.5; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.5 deg C;Liquid Temperature:23.5 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(4.08, 4.08, 4.08);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

UNII High CH5280 Rate=6.5M bit/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm

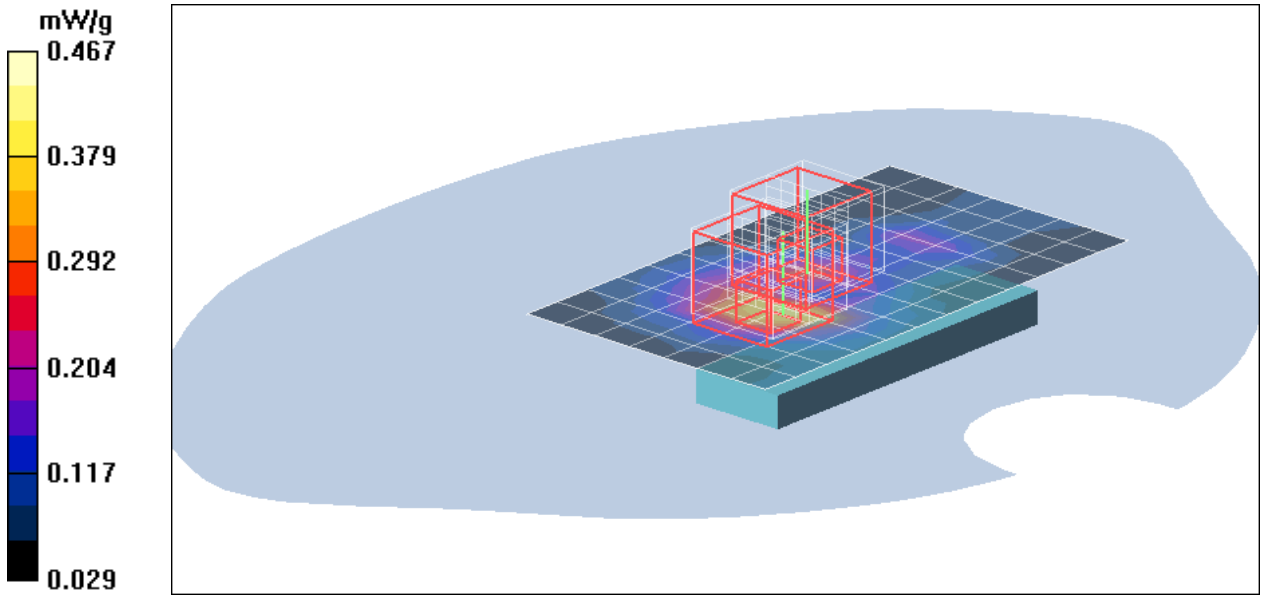
Maximum value of SAR (measured) = 0.410 mW/g

UNII High CH5280 Rate=6.5M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 8.96 V/m; Power Drift = -0.165 dB
Peak SAR (extrapolated) = 0.569 W/kg
SAR(1 g) = 0.311 mW/g; SAR(10 g) = 0.144 mW/g
Maximum value of SAR (measured) = 0.467 mW/g

UNII High CH5280 Rate=6.5M bit/Zoom Scan (7x7x9)/Cube 1:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 8.96 V/m; Power Drift = -0.165 dB
Peak SAR (extrapolated) = 0.332 W/kg
SAR(1 g) = 0.174 mW/g; SAR(10 g) = 0.090 mW/g
Maximum value of SAR (measured) = 0.266 mW/g


mW/g
0.467
0.379
0.292
0.204
0.117
0.029

Date/Time: 1/05/2008 9:23:31 PM

Test Laboratory: Compliance Certification Services Inc.

802.11a Horizontal Bottom Flat Touched mode DTS HT20 ASUS M5200AE

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5600 MHz; σ = 5.92 mho/m; ε_r = 47.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.5 deg C;Liquid Temperature:23.5 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

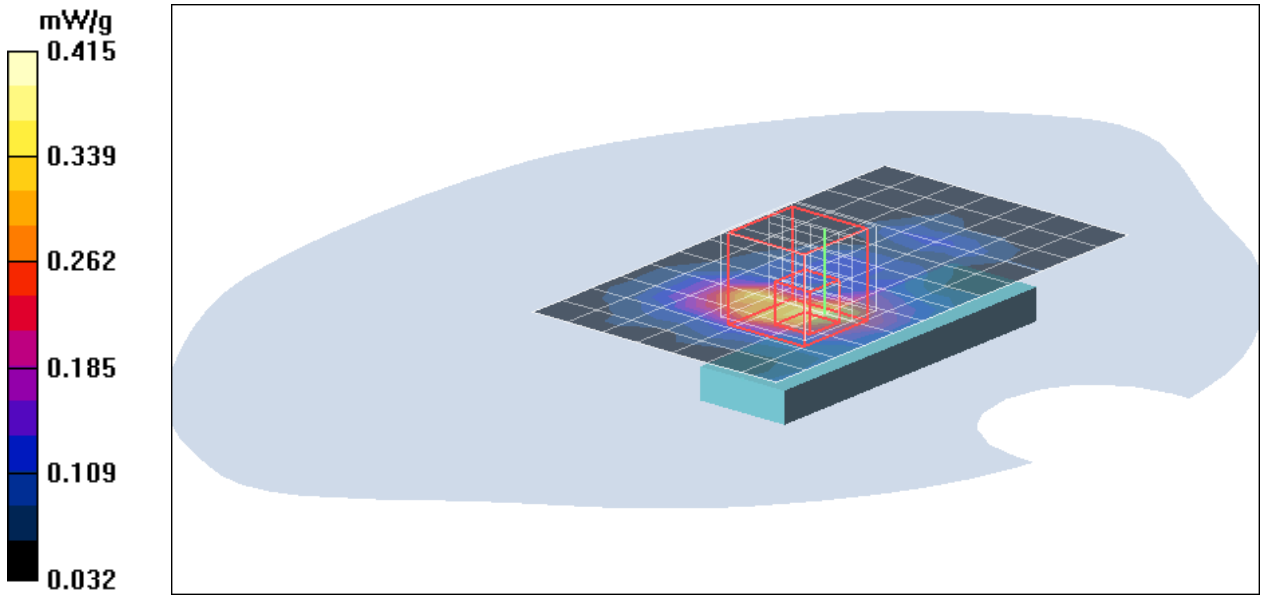
- Probe: EX3DV3 - SN3504; ConvF(4.09, 4.09, 4.09);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

DTS Middle CH5600 Rate=6.5M bit/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.380 mW/g

DTS Middle CH5600 Rate=6.5M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 8.22 V/m; Power Drift = -0.062 dB
Peak SAR (extrapolated) = 0.549 W/kg
SAR(1 g) = 0.256 mW/g; SAR(10 g) = 0.130 mW/g
Maximum value of SAR (measured) = 0.415 mW/g


mW/g
0.415
0.339
0.262
0.185
0.109
0.032

Date/Time: 1/05/2008 10:12:44 PM

Test Laboratory: Compliance Certification Services Inc.

802.11a Horizontal Bottom Flat Touched mode DTS HT20 ASUS M5200AE

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5785 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5785 MHz; σ = 6.17 mho/m; ε_r = 47.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.5 deg C;Liquid Temperature:23.5 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(4.10, 4.10, 4.10);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

DTS High CH5785 Rate=6.5M bit/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm

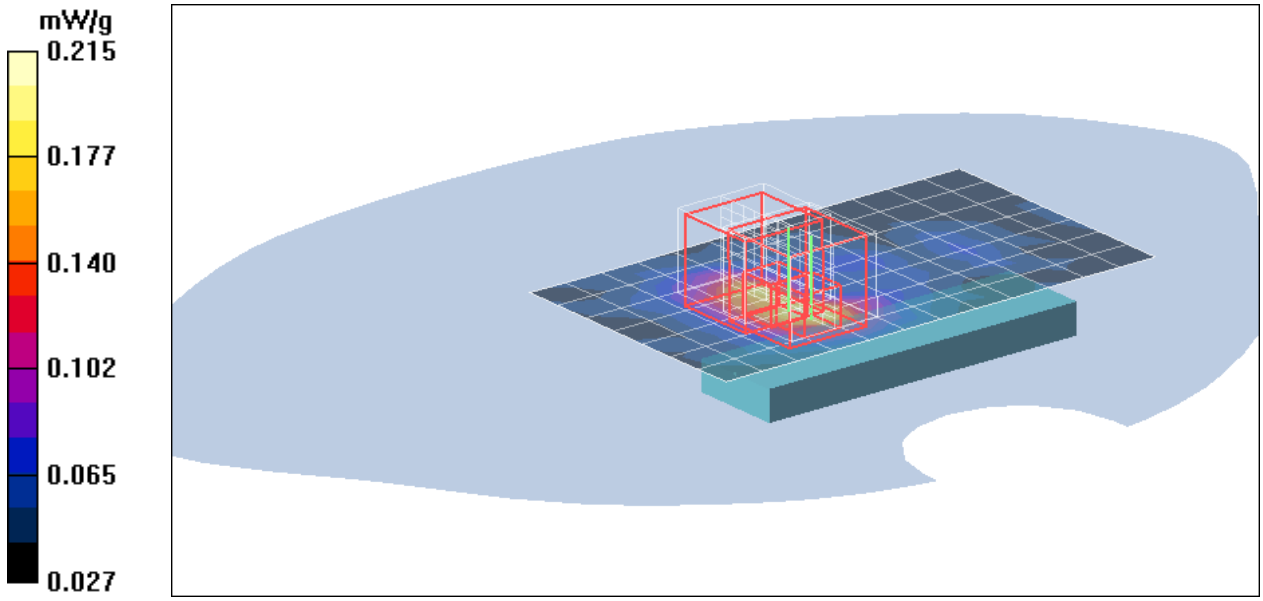
Maximum value of SAR (measured) = 0.215 mW/g

DTS High CH5785 Rate=6.5M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 5.03 V/m; Power Drift = -0.037 dB
Peak SAR (extrapolated) = 0.301 W/kg
SAR(1 g) = 0.139 mW/g; SAR(10 g) = 0.076 mW/g
Maximum value of SAR (measured) = 0.207 mW/g

DTS High CH5785 Rate=6.5M bit/Zoom Scan (7x7x9)/Cube 1:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 5.03 V/m; Power Drift = -0.037 dB
Peak SAR (extrapolated) = 0.331 W/kg
SAR(1 g) = 0.127 mW/g; SAR(10 g) = 0.072 mW/g
Maximum value of SAR (measured) = 0.188 mW/g


mW/g
0.215
0.177
0.140
0.102
0.065
0.027

Date/Time: 1/06/2008 1:55:08 AM

Test Laboratory: Compliance Certification Services Inc.

802.11a Horizontal Bottom Flat Touched mode UNII HT40 ASUS M5200AE

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5190 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5190 MHz; σ = 5.31 mho/m; ε_r = 48.6; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.5 deg C;Liquid Temperature:23.5 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(4.34, 4.34, 4.34);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

UNII Low CH5190 Rate=13.5M bit/Area Scan (8x13x1):

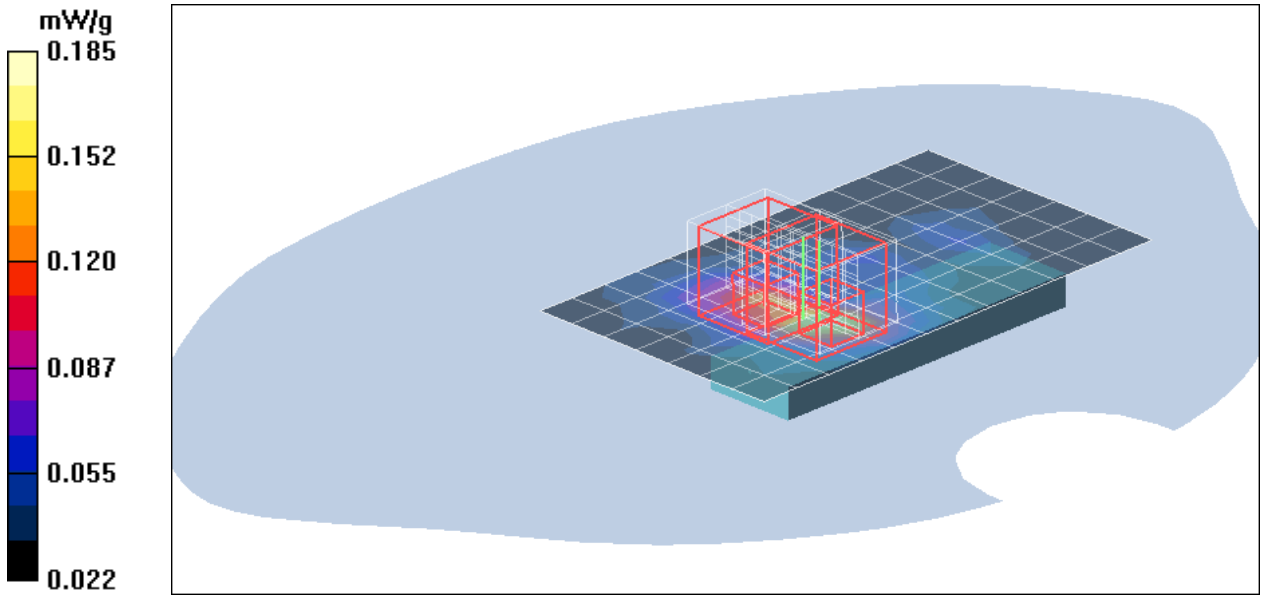
Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.187 mW/g

UNII Low CH5190 Rate=13.5M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 6.15 V/m; Power Drift = -0.030 dB
Peak SAR (extrapolated) = 0.290 W/kg
SAR(1 g) = 0.132 mW/g; SAR(10 g) = 0.065 mW/g
Maximum value of SAR (measured) = 0.185 mW/g

UNII Low CH5190 Rate=13.5M bit/Zoom Scan (7x7x9)/Cube 1:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 6.15 V/m; Power Drift = -0.030 dB
Peak SAR (extrapolated) = 0.203 W/kg
SAR(1 g) = 0.104 mW/g; SAR(10 g) = 0.059 mW/g
Maximum value of SAR (measured) = 0.164 mW/g


mW/g
0.185
0.152
0.120
0.087
0.055
0.022

Date/Time: 1/05/2008 10:59:42 PM

Test Laboratory: Compliance Certification Services Inc.

802.11a Horizontal Bottom Flat Touched mode UNII HT40 ASUS M5200AE

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5270 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5270 MHz; σ = 5.42 mho/m; ε_r = 48.5; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.5 deg C;Liquid Temperature:23.5 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(4.08, 4.08, 4.08);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

UNII Middle CH5270 Rate=13.5M bit/Area Scan (8x13x1):

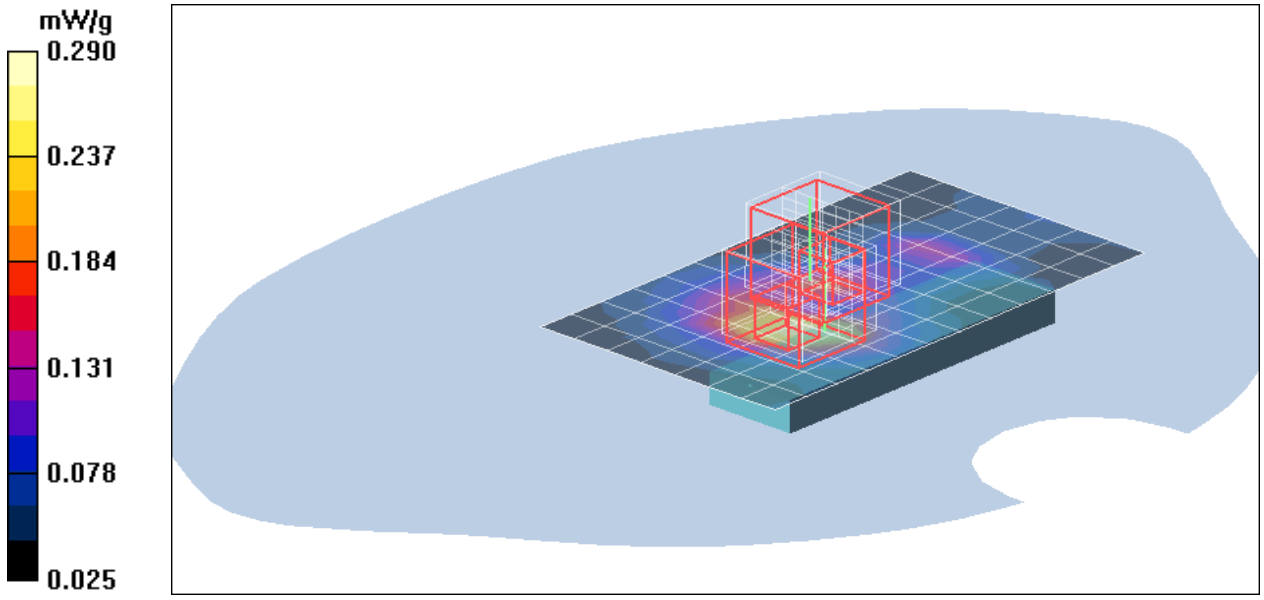
Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.265 mW/g

UNII Middle CH5270 Rate=13.5M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 7.96 V/m; Power Drift = -0.063 dB
Peak SAR (extrapolated) = 0.385 W/kg
SAR(1 g) = 0.200 mW/g; SAR(10 g) = 0.098 mW/g
Maximum value of SAR (measured) = 0.290 mW/g

UNII Middle CH5270 Rate=13.5M bit/Zoom Scan (7x7x9)/Cube 1:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 7.96 V/m; Power Drift = -0.063 dB
Peak SAR (extrapolated) = 0.215 W/kg
SAR(1 g) = 0.121 mW/g; SAR(10 g) = 0.065 mW/g
Maximum value of SAR (measured) = 0.175 mW/g


mW/g
0.290
0.237
0.184
0.131
0.078
0.025

Date/Time: 1/06/2008 1:56:00 AM

Test Laboratory: Compliance Certification Services Inc.

802.11a Horizontal Bottom Flat Touched mode HT40 DTS ASUS M5200AE

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5590 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5590 MHz; σ = 5.92 mho/m; ε_r = 47.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.5 deg C;Liquid Temperature:23.5 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(4.09, 4.09, 4.09);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

DTS Middle CH5590 Rate=13.5M bit/Area Scan (8x13x1):

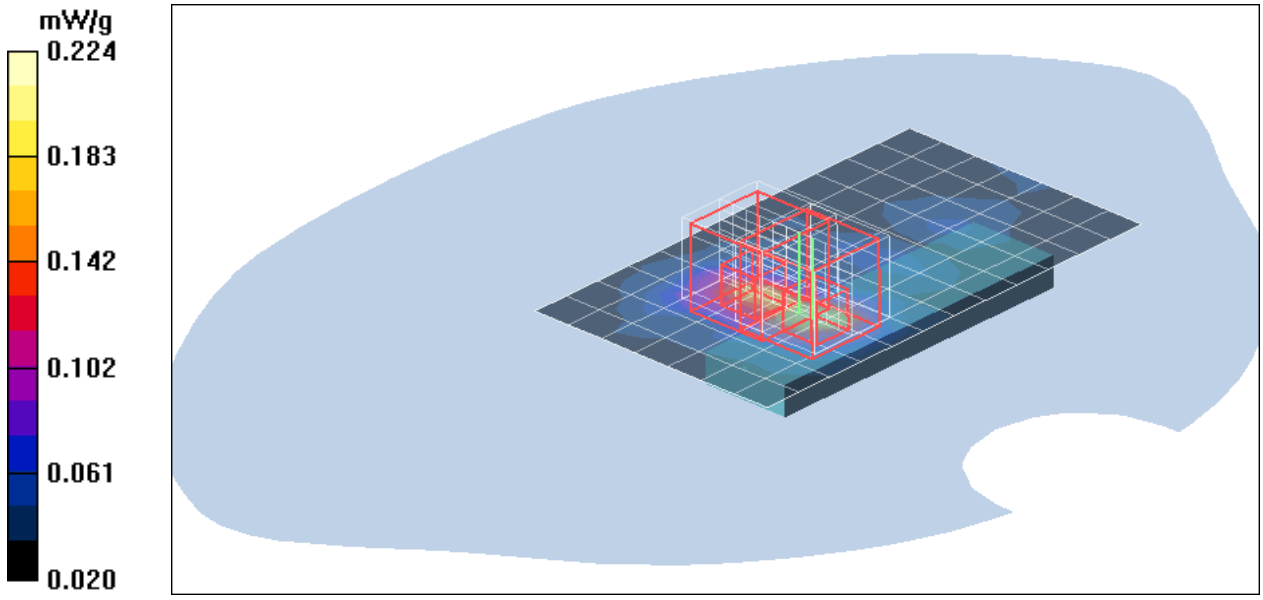
Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.211 mW/g

DTS Middle CH5590 Rate=13.5M bit/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 5.28 V/m; Power Drift = -0.055 dB
Peak SAR (extrapolated) = 0.395 W/kg
SAR(1 g) = 0.141 mW/g; SAR(10 g) = 0.067 mW/g
Maximum value of SAR (measured) = 0.224 mW/g

DTS Middle CH5590 Rate=13.5M bit/Zoom Scan (7x7x9)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 5.28 V/m; Power Drift = -0.055 dB
Peak SAR (extrapolated) = 0.330 W/kg
SAR(1 g) = 0.128 mW/g; SAR(10 g) = 0.065 mW/g
Maximum value of SAR (measured) = 0.197 mW/g


mW/g
0.224
0.183
0.142
0.102
0.061
0.020

Date/Time: 1/05/2008 11:48:25 PM

Test Laboratory: Compliance Certification Services Inc.

802.11a Horizontal Bottom Flat Touched mode DTS HT40 ASUS M5200AE

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5755 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5755 MHz; σ = 6.14 mho/m; ε_r = 47.5; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.5 deg C;Liquid Temperature:23.5 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(4.10, 4.10, 4.10);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

DTS Low CH5755 Rate=13.5M bit/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm

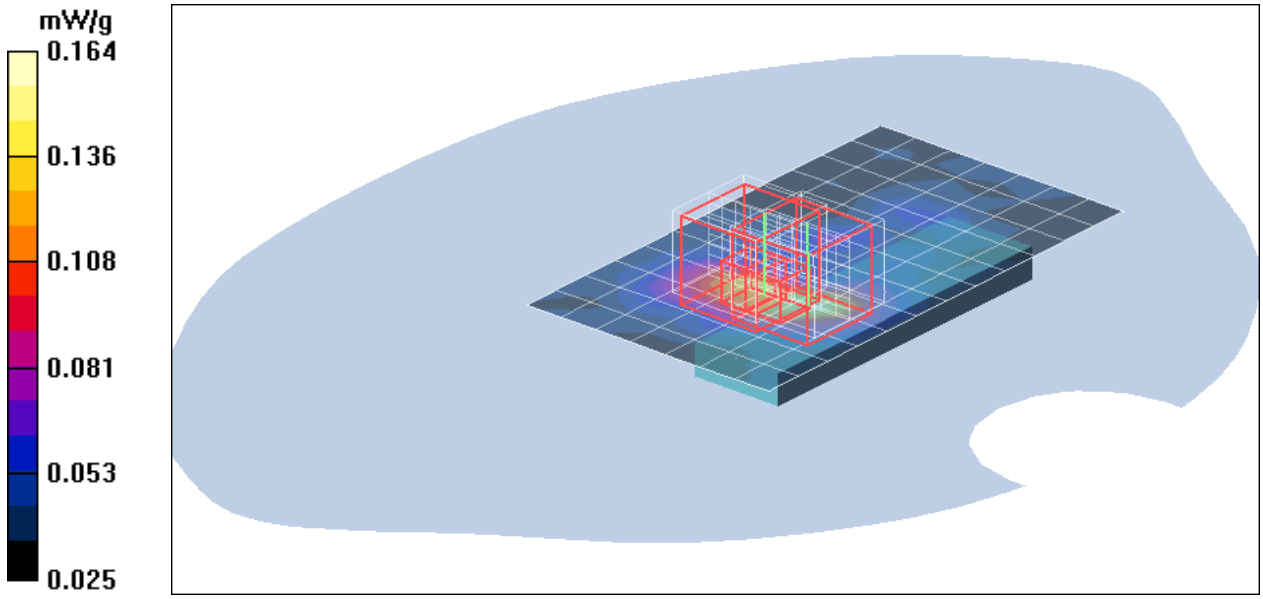
Maximum value of SAR (measured) = 0.164 mW/g

DTS Low CH5755 Rate=13.5M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 4.90 V/m; Power Drift = -0.104 dB
Peak SAR (extrapolated) = 0.322 W/kg
SAR(1 g) = 0.112 mW/g; SAR(10 g) = 0.065 mW/g
Maximum value of SAR (measured) = 0.160 mW/g

DTS Low CH5755 Rate=13.5M bit/Zoom Scan (7x7x9)/Cube 1:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 4.90 V/m; Power Drift = -0.104 dB
Peak SAR (extrapolated) = 0.238 W/kg
SAR(1 g) = 0.107 mW/g; SAR(10 g) = 0.064 mW/g
Maximum value of SAR (measured) = 0.156 mW/g


mW/g
0.164
0.136
0.108
0.081
0.053
0.025

Date/Time: 1/06/2008 12:53:08 AM

Test Laboratory: Compliance Certification Services Inc.

802.11a Horizontal Bottom Flat Touched mode DTS HT40 ASUS M5200AE

DUT: 65-VE438-P2; Type: WLAN USB Stick a/b/g/n Adapter; Serial: N/A

Communication System: IEEE 802.11 A; Frequency: 5795 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5795 MHz; σ = 6.18 mho/m; ε_r = 47.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Air Temperature:24.5 deg C;Liquid Temperature:23.5 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(4.10, 4.10, 4.10);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 8/29/2007
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

DTS High CH5795 Rate=13.5M bit/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm

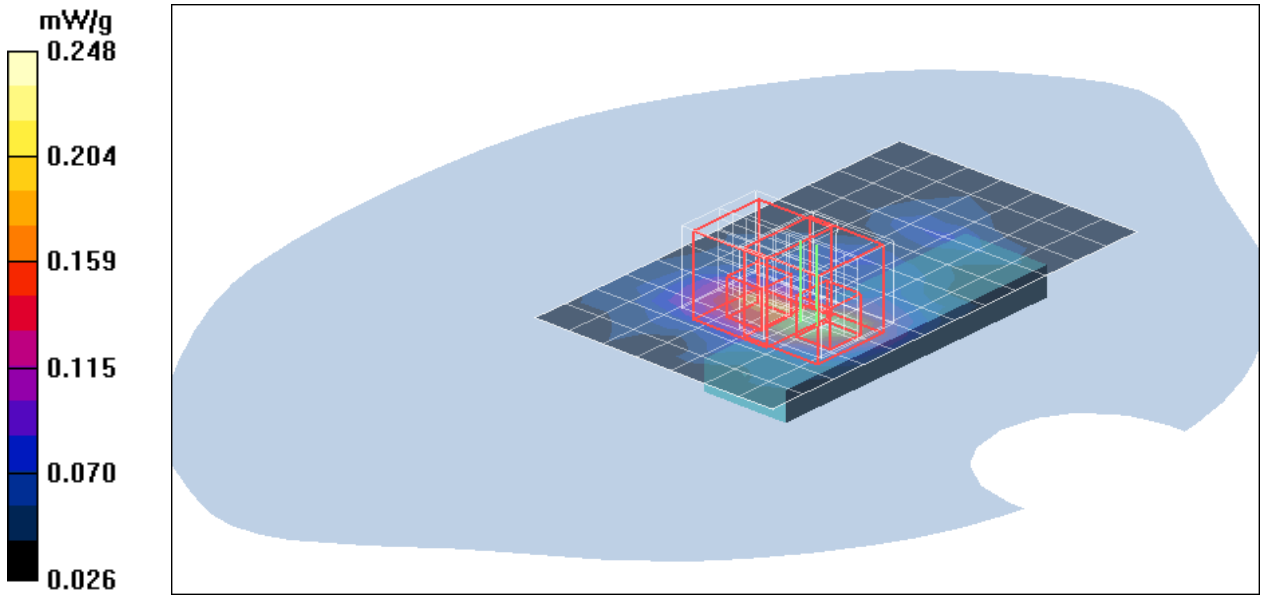
Maximum value of SAR (measured) = 0.248 mW/g

DTS High CH5795 Rate=13.5M bit/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 5.55 V/m; Power Drift = -0.130 dB
Peak SAR (extrapolated) = 0.385 W/kg
SAR(1 g) = 0.162 mW/g; SAR(10 g) = 0.083 mW/g
Maximum value of SAR (measured) = 0.246 mW/g

DTS High CH5795 Rate=13.5M bit/Zoom Scan (7x7x9)/Cube 1:

Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 5.55 V/m; Power Drift = -0.130 dB
Peak SAR (extrapolated) = 0.269 W/kg
SAR(1 g) = 0.138 mW/g; SAR(10 g) = 0.077 mW/g
Maximum value of SAR (measured) = 0.218 mW/g


mW/g
0.248
0.204
0.159
0.115
0.070
0.026