

Test Laboratory: Compliance Certification Services

Laptop 5.2 GHz band

DUT: MacBook; Type: n/a; Serial: n/a

Communication System: 802.11abgn; Frequency: 5200 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 5200$ MHz; $\sigma = 5.37$ mho/m; $\epsilon_r = 44.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(4.21, 4.21, 4.21); Calibrated: 4/23/2008
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

802.11a 5.2G Tx 0 - M-ch/Area Scan (9x19x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.651 mW/g

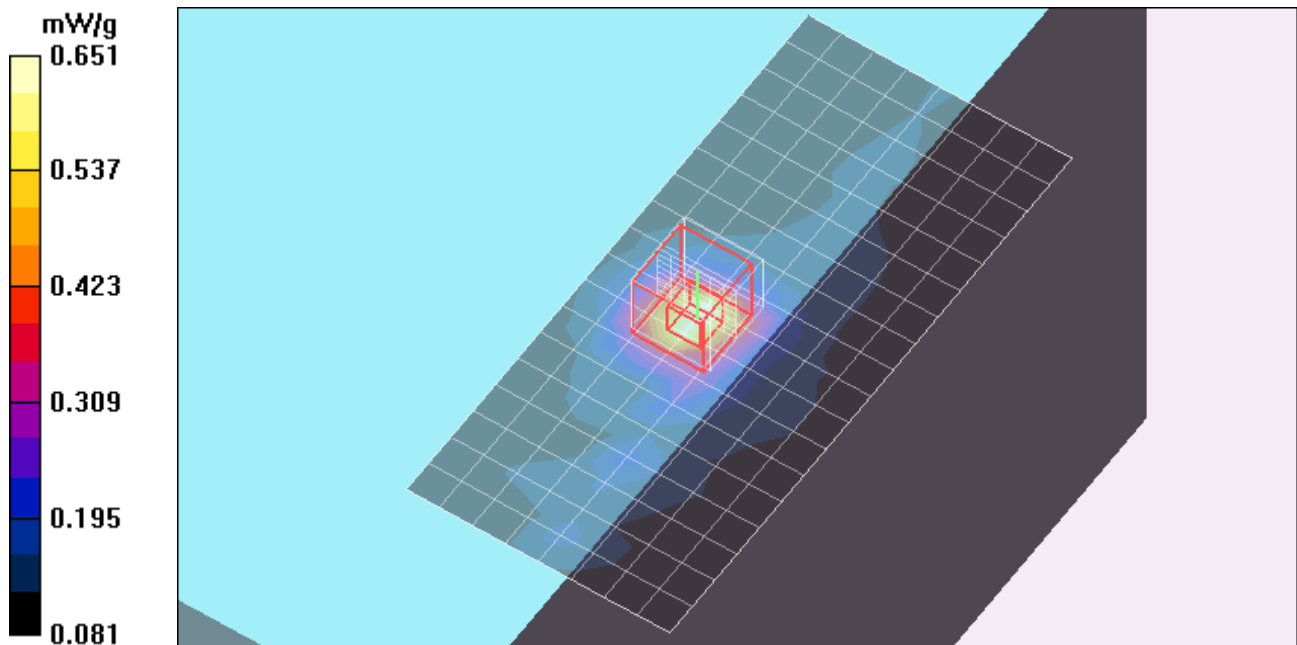
802.11a 5.2G Tx 0 - M-ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 5.51 V/m; Power Drift = 0.697 dB

Peak SAR (extrapolated) = 1.52 W/kg

SAR(1 g) = 0.513 mW/g; SAR(10 g) = 0.262 mW/g

Maximum value of SAR (measured) = 0.749 mW/g



Test Laboratory: Compliance Certification Services

Laptop 5.2 GHz bnad

DUT: MacBook; Type: n/a; Serial: n/a

Communication System: 802.11abgn; Frequency: 5230 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 5230$ MHz; $\sigma = 5.41$ mho/m; $\epsilon_r = 44.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(4.21, 4.21, 4.21); Calibrated: 4/23/2008
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

802.11n 40MHz SISO 5.2G Tx 0 H-ch/Area Scan (9x17x1): Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

802.11n 40MHz SISO 5.2G Tx 0 H-ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm,

dy=4mm, dz=2.5mm

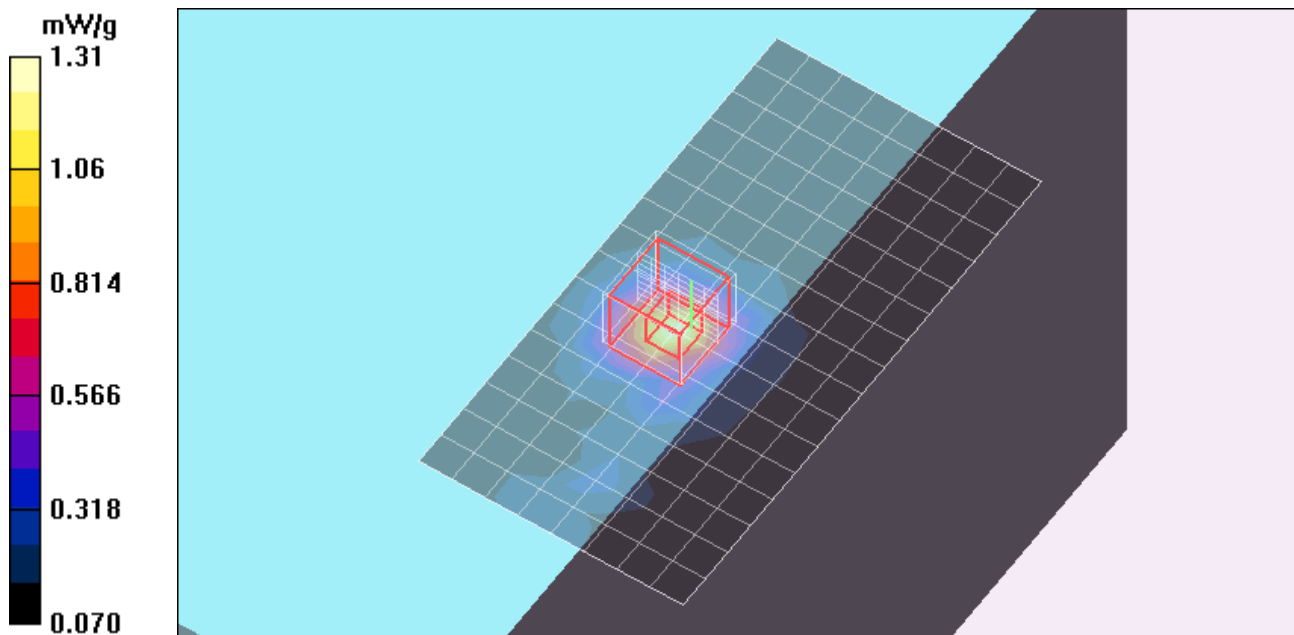
Reference Value = 5.79 V/m; Power Drift = 0.795 dB

Peak SAR (extrapolated) = 2.89 W/kg

SAR(1 g) = 0.862 mW/g; SAR(10 g) = 0.385 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.29 mW/g



Test Laboratory: Compliance Certification Services

Laptop 5.2 GHz bnad

DUT: MacBook; Type: n/a; Serial: n/a

Communication System: 802.11abgn; Frequency: 5230 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 5230$ MHz; $\sigma = 5.41$ mho/m; $\epsilon_r = 44.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(4.21, 4.21, 4.21); Calibrated: 4/23/2008
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

802.11n 40MHz SISO 5.2G Tx 1 - H-ch/Area Scan (9x19x1): Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.767 mW/g

802.11n 40MHz SISO 5.2G Tx 1 - H-ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

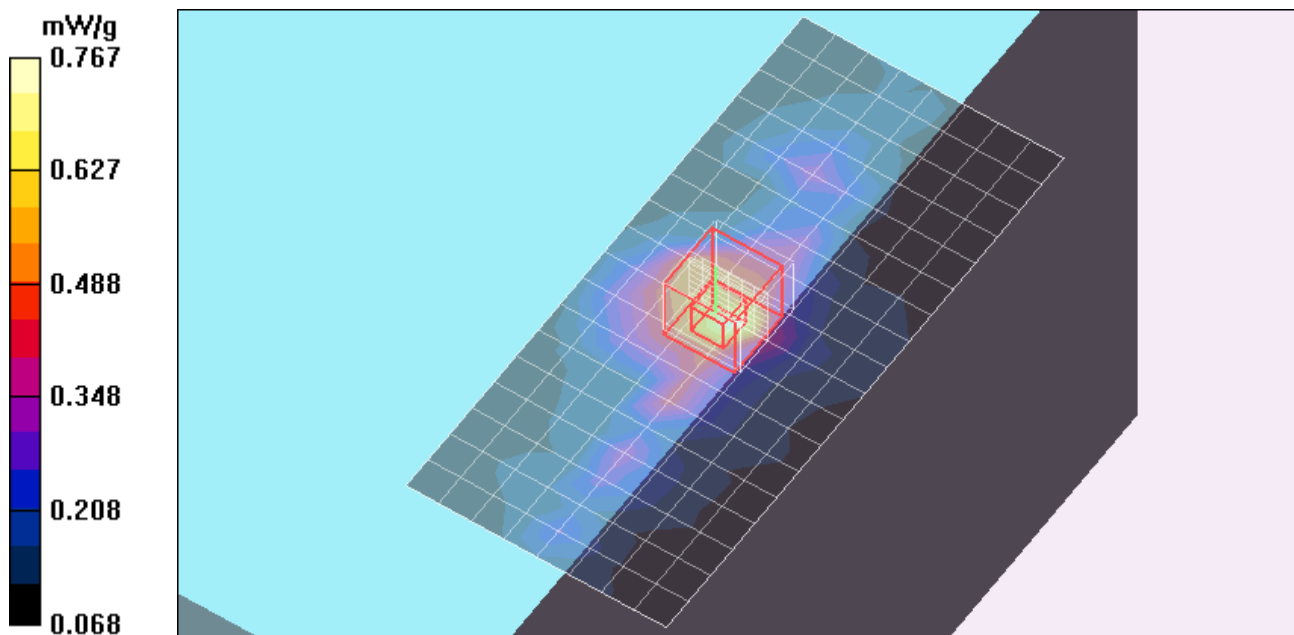
Reference Value = 6.60 V/m; Power Drift = -0.184 dB

Peak SAR (extrapolated) = 2.50 W/kg

SAR(1 g) = 0.641 mW/g; SAR(10 g) = 0.290 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.05 mW/g



Test Laboratory: Compliance Certification Services

Laptop 5.2 GHz bnad

DUT: MacBook; Type: n/a; Serial: n/a

Communication System: 802.11abgn; Frequency: 5230 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 5230$ MHz; $\sigma = 5.41$ mho/m; $\epsilon_r = 44.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(4.21, 4.21, 4.21); Calibrated: 4/23/2008
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

802.11n 40MHz MIMO 5.2G Tx 0 & Tx 1/Area Scan (9x16x1): Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.639 mW/g

802.11n 40MHz MIMO 5.2G Tx 0 & Tx 1/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 7.35 V/m; Power Drift = 0.647 dB

Peak SAR (extrapolated) = 1.41 W/kg

SAR(1 g) = 0.476 mW/g; SAR(10 g) = 0.256 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.695 mW/g

802.11n 40MHz MIMO 5.2G Tx 0 & Tx 1/Zoom Scan (7x7x9)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

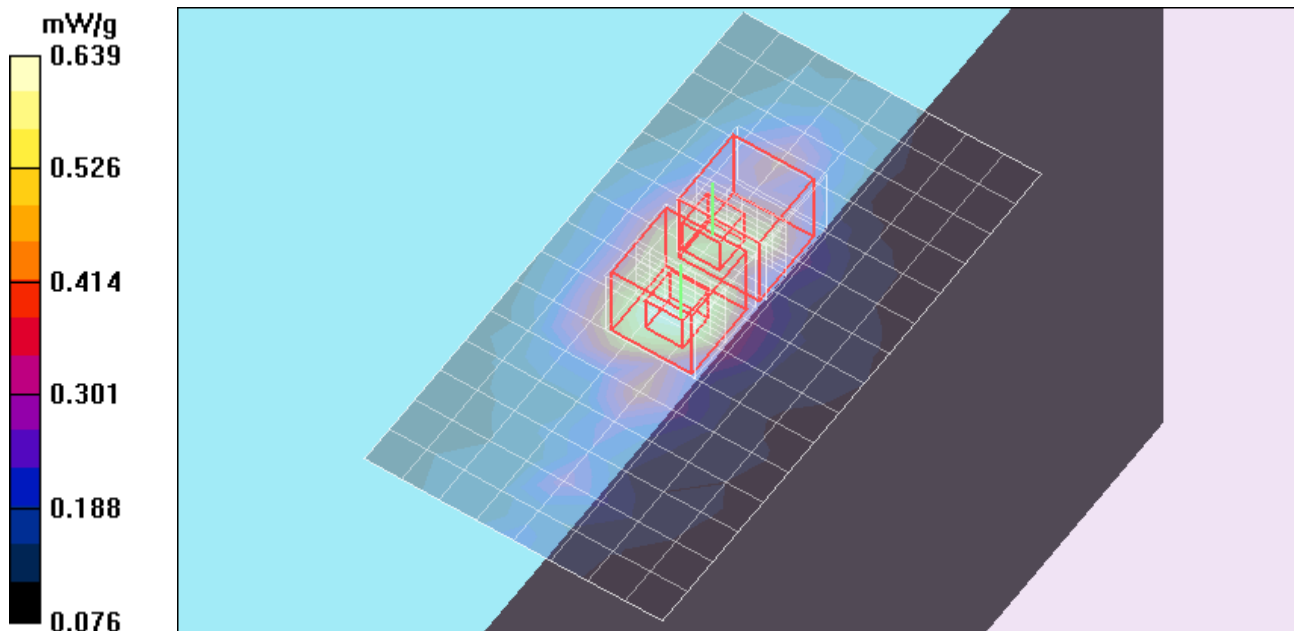
Reference Value = 7.35 V/m; Power Drift = 0.647 dB

Peak SAR (extrapolated) = 1.15 W/kg

SAR(1 g) = 0.393 mW/g; SAR(10 g) = 0.223 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.559 mW/g



Test Laboratory: Compliance Certification Services

Laptop 5.3 GHz bnad

DUT: MacBook; Type: n/a; Serial: n/a

Communication System: 802.11abgn; Frequency: 5260 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 5260$ MHz; $\sigma = 5.44$ mho/m; $\epsilon_r = 44.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(3.92, 3.92, 3.92); Calibrated: 4/23/2008
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

802.11a 5.3G Tx 0 L-ch/Area Scan (9x15x1): Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.68 mW/g

802.11a 5.3G Tx 0 L-ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

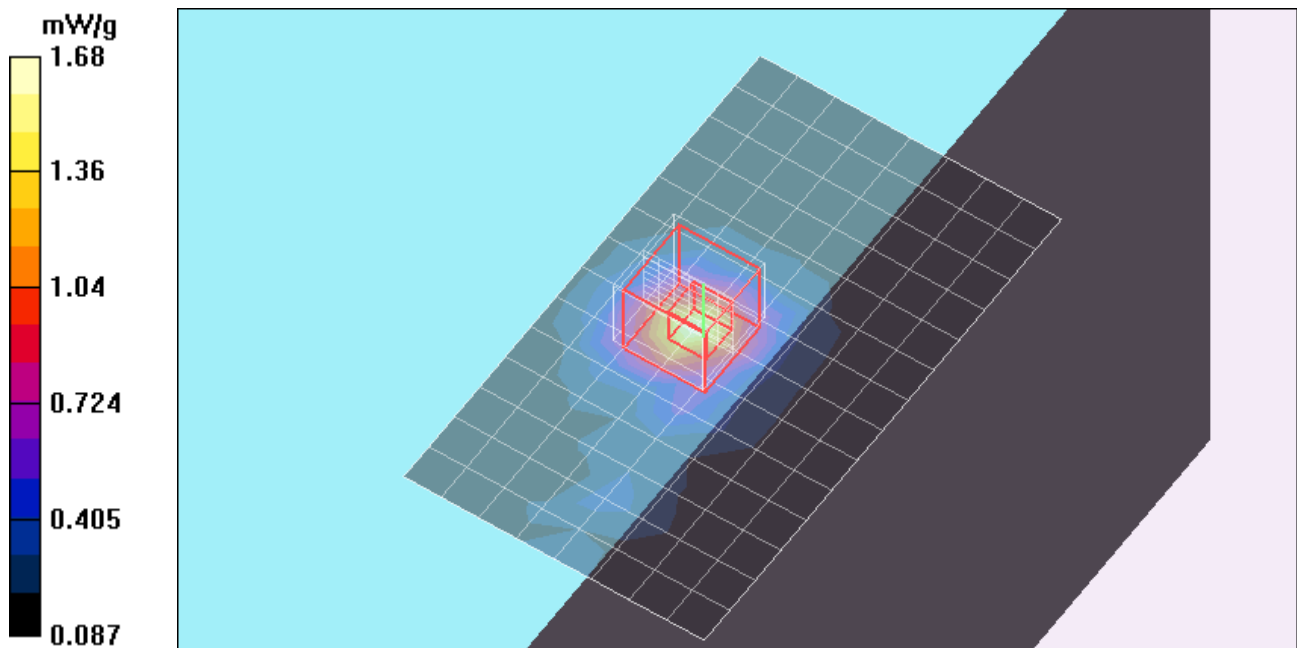
Reference Value = 6.61 V/m; Power Drift = 0.548 dB

Peak SAR (extrapolated) = 3.60 W/kg

SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.483 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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



Test Laboratory: Compliance Certification Services

Laptop 5.3 GHz bnad

DUT: MacBook; Type: n/a; Serial: n/a

Communication System: 802.11abgn; Frequency: 5300 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5300$ MHz; $\sigma = 5.47$ mho/m; $\epsilon_r = 44.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(3.92, 3.92, 3.92); Calibrated: 4/23/2008
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

802.11a 5.3G Tx 0 M-ch/Area Scan (9x16x1): Measurement grid: dx=10mm, dy=10mm

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

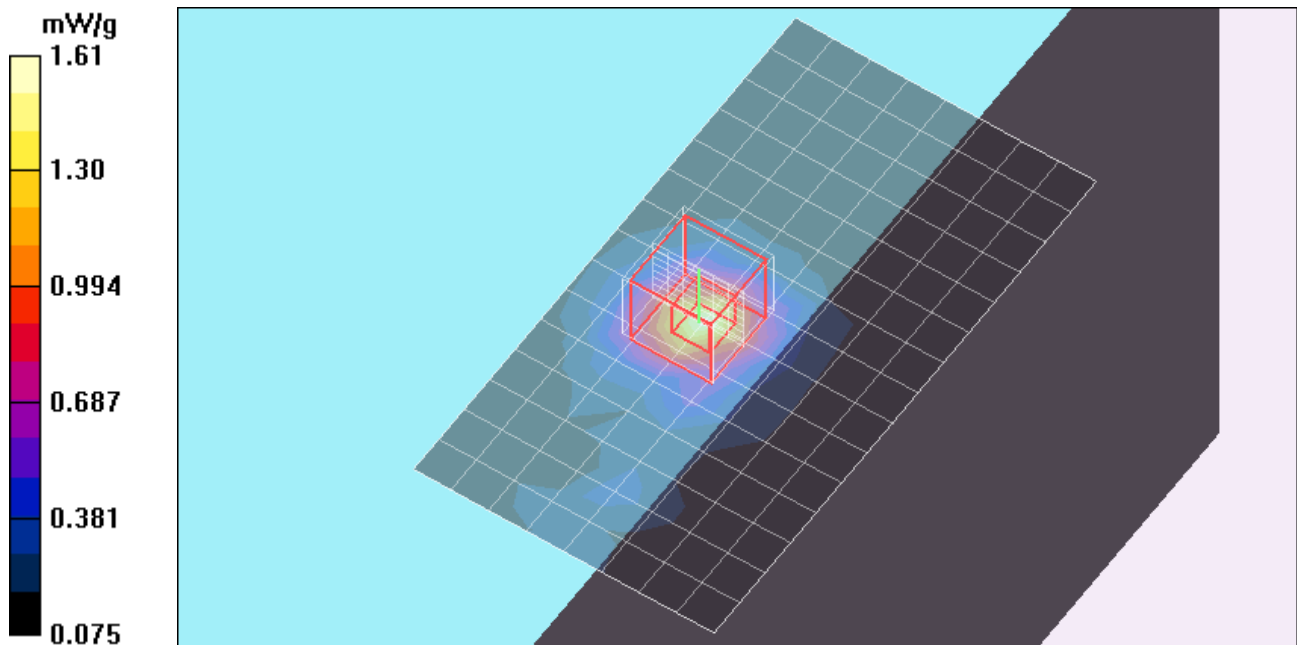
802.11a 5.3G Tx 0 M-ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 6.11 V/m; Power Drift = 0.766 dB

Peak SAR (extrapolated) = 3.35 W/kg

SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.466 mW/g

Maximum value of SAR (measured) = 1.58 mW/g



Test Laboratory: Compliance Certification Services

Laptop 5.3 GHz bnad

DUT: MacBook; Type: n/a; Serial: n/a

Communication System: 802.11abgn; Frequency: 5270 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 5270$ MHz; $\sigma = 5.45$ mho/m; $\epsilon_r = 44.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(3.92, 3.92, 3.92); Calibrated: 4/23/2008
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

802.11n 40MHz SISO 5.3G Tx 0 L-ch/Area Scan (9x17x1): Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.39 mW/g

802.11n 40MHz SISO 5.3G Tx 0 L-ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

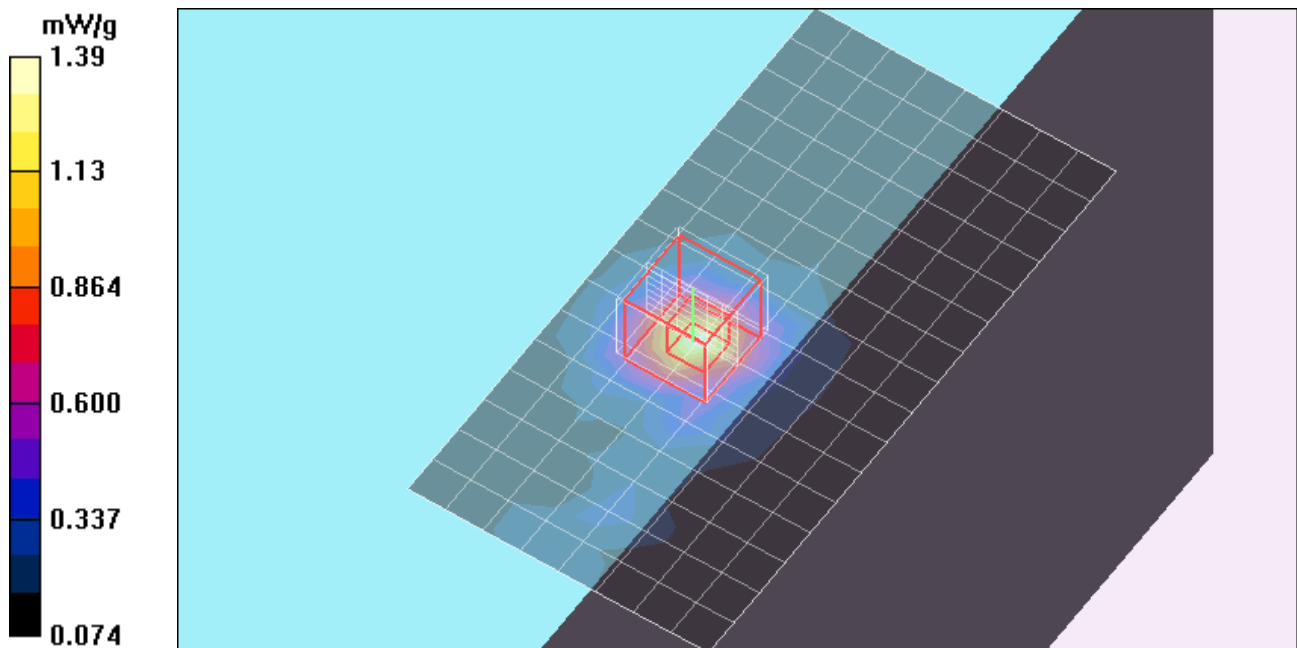
Reference Value = 6.32 V/m; Power Drift = 0.308 dB

Peak SAR (extrapolated) = 3.12 W/kg

SAR(1 g) = 0.978 mW/g; SAR(10 g) = 0.431 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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



Test Laboratory: Compliance Certification Services

Laptop 5.3 GHz bnad

DUT: MacBook; Type: n/a; Serial: n/a

Communication System: 802.11abgn; Frequency: 5270 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 5270$ MHz; $\sigma = 5.45$ mho/m; $\epsilon_r = 44.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(3.92, 3.92, 3.92); Calibrated: 4/23/2008
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

802.11n 40MHz SISO 5.3G Tx 1 - L-ch/Area Scan (9x19x1): Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.814 mW/g

802.11n 40MHz SISO 5.3G Tx 1 - L-ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm,

dy=4mm, dz=2.5mm

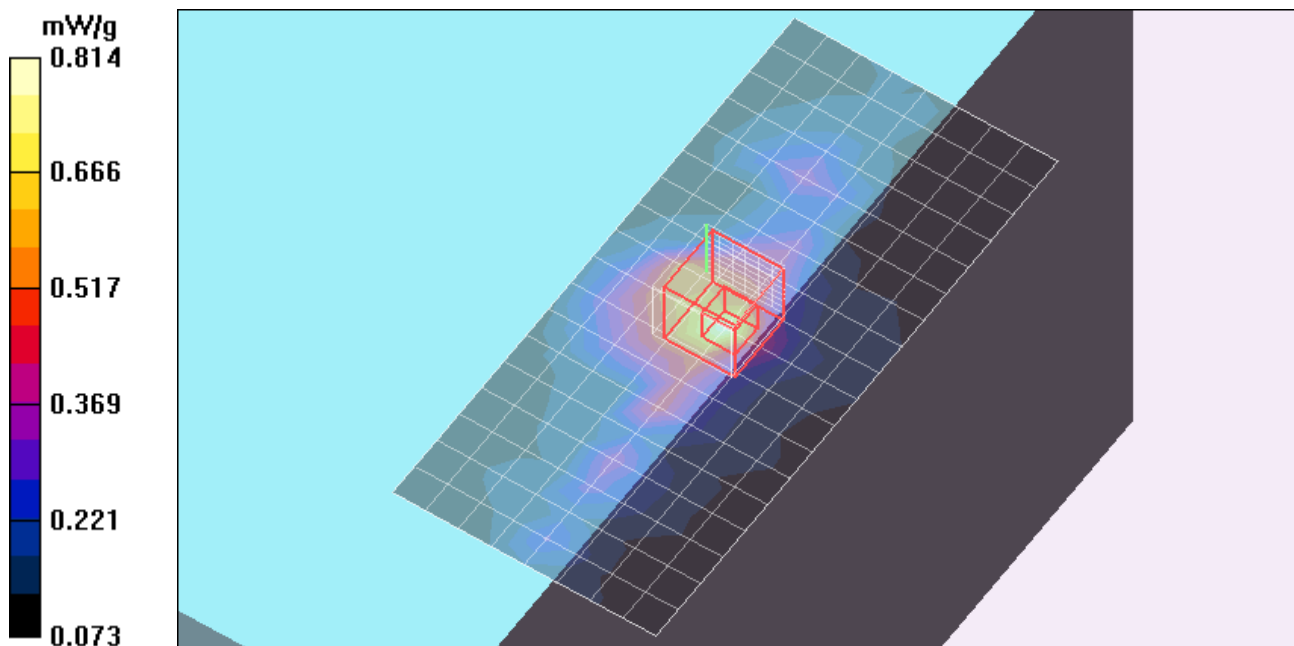
Reference Value = 6.06 V/m; Power Drift = 5.47 dB

Peak SAR (extrapolated) = 2.81 W/kg

SAR(1 g) = 0.676 mW/g; SAR(10 g) = 0.305 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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



Test Laboratory: Compliance Certification Services

Laptop 5.3 GHz bnad

DUT: MacBook; Type: n/a; Serial: n/a

Communication System: 802.11abgn; Frequency: 5270 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 5270$ MHz; $\sigma = 5.45$ mho/m; $\epsilon_r = 44.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(3.92, 3.92, 3.92); Calibrated: 4/23/2008
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

802.11n 40MHz MIMO 5.3G Tx 0 & Tx 1 L-ch/Area Scan (9x17x1): Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

802.11n 40MHz MIMO 5.3G Tx 0 & Tx 1 L-ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid:

dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 5.57 V/m; Power Drift = 5.83 dB

Peak SAR (extrapolated) = 3.02 W/kg

SAR(1 g) = 0.991 mW/g; SAR(10 g) = 0.464 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

802.11n 40MHz MIMO 5.3G Tx 0 & Tx 1 L-ch/Zoom Scan 2 (7x7x9)/Cube 0: Measurement

grid: dx=4mm, dy=4mm, dz=2.5mm

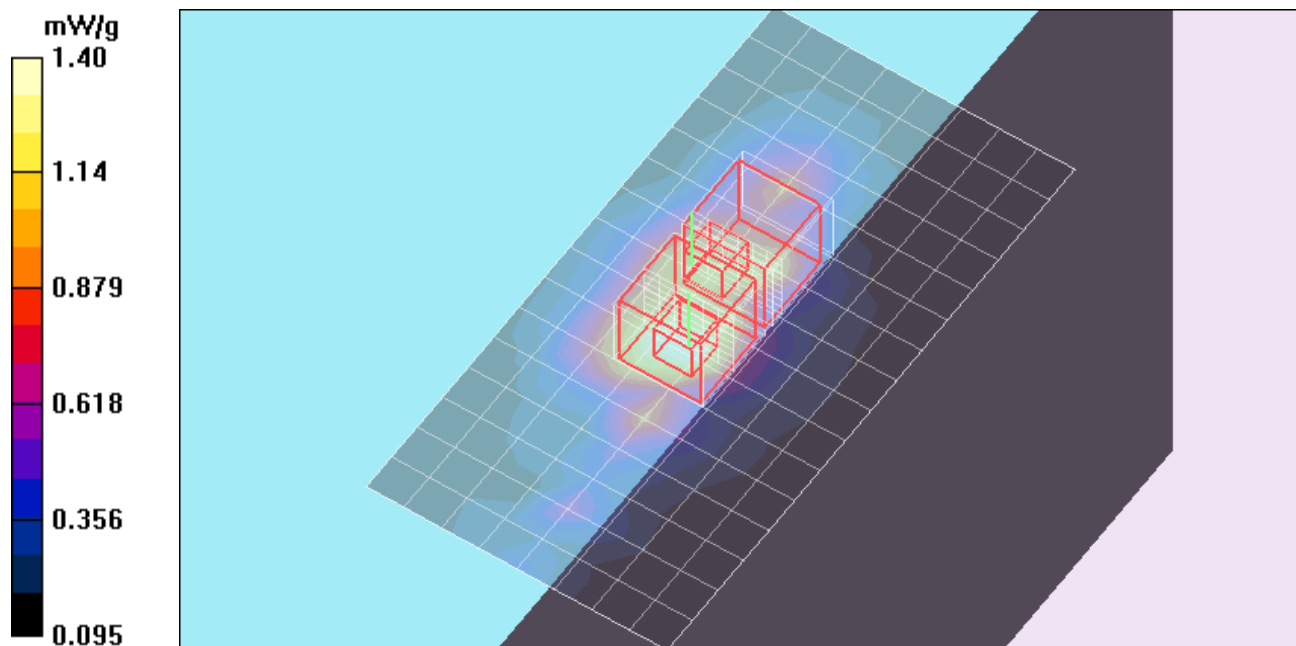
Reference Value = 5.57 V/m; Power Drift = 5.83 dB

Peak SAR (extrapolated) = 2.48 W/kg

SAR(1 g) = 0.812 mW/g; SAR(10 g) = 0.393 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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



Test Laboratory: Compliance Certification Services

Laptop 5.5 GHz Band

DUT: MacBook; Type: n/a; Serial: n/a

Communication System: 802.11a; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5600$ MHz; $\sigma = 5.93$ mho/m; $\epsilon_r = 45$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(3.5, 3.5, 3.5); Calibrated: 4/23/2008
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

802.11a 5.5G Tx 1 - M ch/Area Scan (9x17x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.962 mW/g

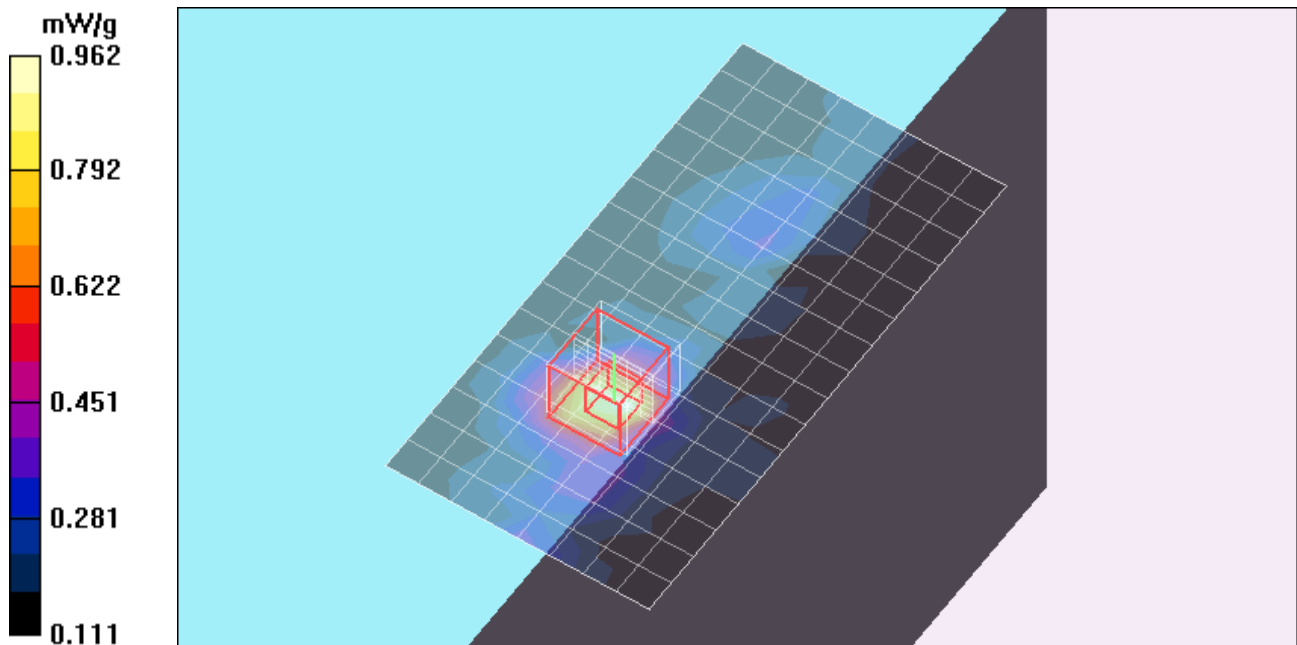
802.11a 5.5G Tx 1 - M ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 6.38 V/m; Power Drift = 0.795 dB

Peak SAR (extrapolated) = 2.30 W/kg

SAR(1 g) = 0.702 mW/g; SAR(10 g) = 0.360 mW/g

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



Test Laboratory: Compliance Certification Services

Laptop 5.5 GHz Band

DUT: MacBook; Type: n/a; Serial: n/a

Communication System: 802.11a; Frequency: 5590 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 5590$ MHz; $\sigma = 5.93$ mho/m; $\epsilon_r = 45$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(3.5, 3.5, 3.5); Calibrated: 4/23/2008
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

802.11n 40MHz SISO 5.5G Tx 0 - M ch/Area Scan (9x19x1): Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

802.11n 40MHz SISO 5.5G Tx 0 - M ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

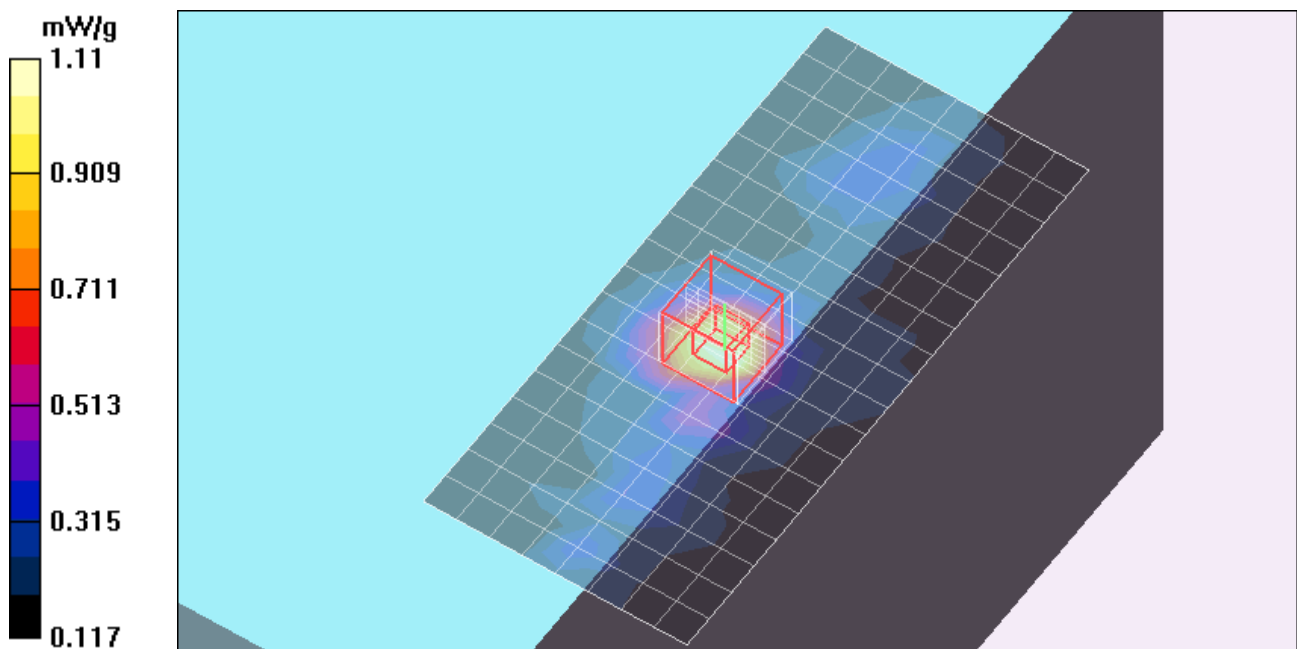
Reference Value = 6.45 V/m; Power Drift = 0.860 dB

Peak SAR (extrapolated) = 2.61 W/kg

SAR(1 g) = 0.810 mW/g; SAR(10 g) = 0.401 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.20 mW/g



Test Laboratory: Compliance Certification Services

Laptop 5.5 GHz Band

DUT: MacBook; Type: n/a; Serial: n/a

Communication System: 802.11a; Frequency: 5550 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5550$ MHz; $\sigma = 5.94$ mho/m; $\epsilon_r = 45.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(3.99, 3.99, 3.99); Calibrated: 4/23/2008
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

802.11n 40MHz SISO 5.5G Tx 1 - L ch/Area Scan (9x15x1): Measurement grid: dx=10mm, dy=10mm

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

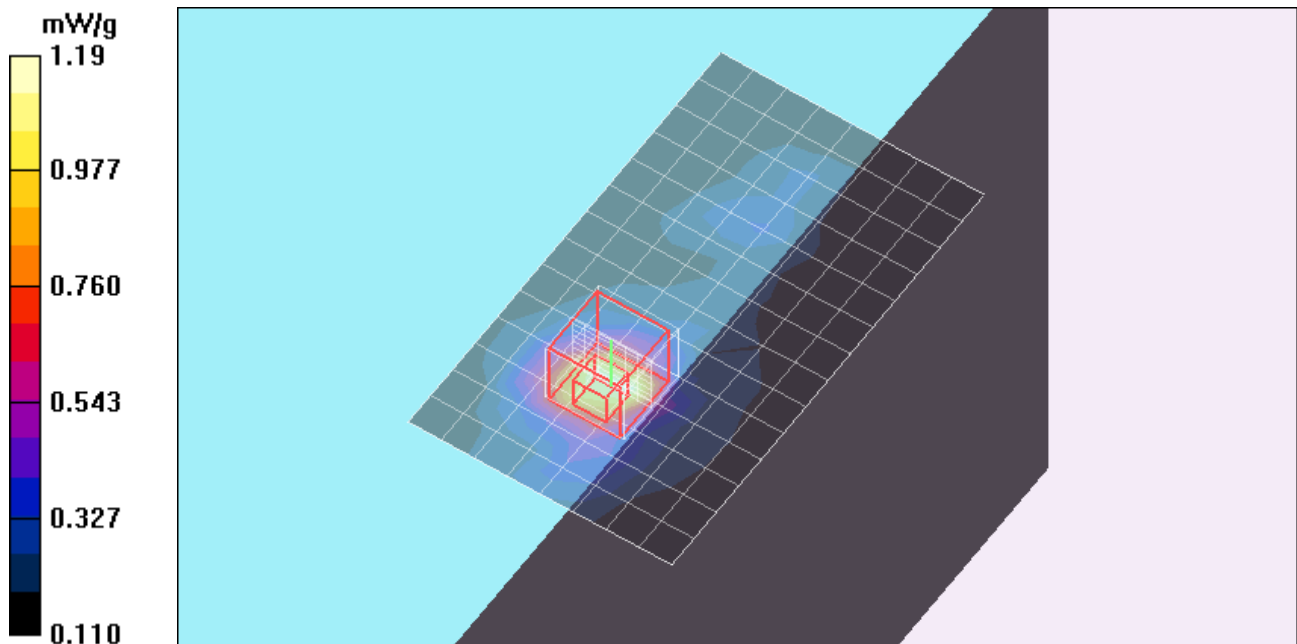
802.11n 40MHz SISO 5.5G Tx 1 - L ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 6.08 V/m; Power Drift = 0.970 dB

Peak SAR (extrapolated) = 3.43 W/kg

SAR(1 g) = 0.829 mW/g; SAR(10 g) = 0.409 mW/g

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



Test Laboratory: Compliance Certification Services

Laptop 5.5 GHz Band

DUT: MacBook; Type: n/a; Serial: n/a

Communication System: 802.11a; Frequency: 5590 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 5590$ MHz; $\sigma = 5.93$ mho/m; $\epsilon_r = 45$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(3.5, 3.5, 3.5); Calibrated: 4/23/2008
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

802.11n 40MHz SISO 5.5G Tx 1 - M ch/Area Scan (9x19x1): Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

802.11n 40MHz SISO 5.5G Tx 1 - M ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

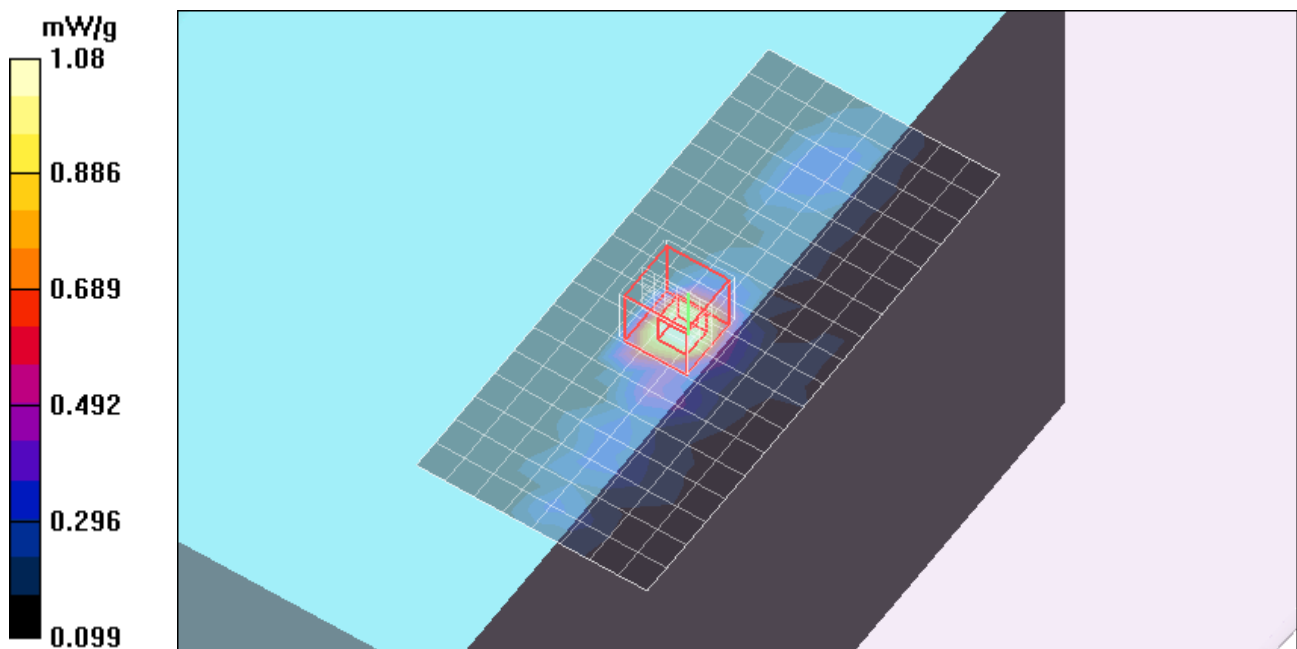
Reference Value = 6.20 V/m; Power Drift = 1.11 dB

Peak SAR (extrapolated) = 4.38 W/kg

SAR(1 g) = 0.842 mW/g; SAR(10 g) = 0.411 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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



Test Laboratory: Compliance Certification Services

Laptop 5.5 GHz Band

DUT: MacBook; Type: n/a; Serial: n/a

Communication System: 802.11a; Frequency: 5670 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 5670$ MHz; $\sigma = 6.04$ mho/m; $\epsilon_r = 44.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(3.5, 3.5, 3.5); Calibrated: 4/23/2008
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

802.11n 40MHz SISO 5.5G Tx 1 - H ch/Area Scan (9x15x1): Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

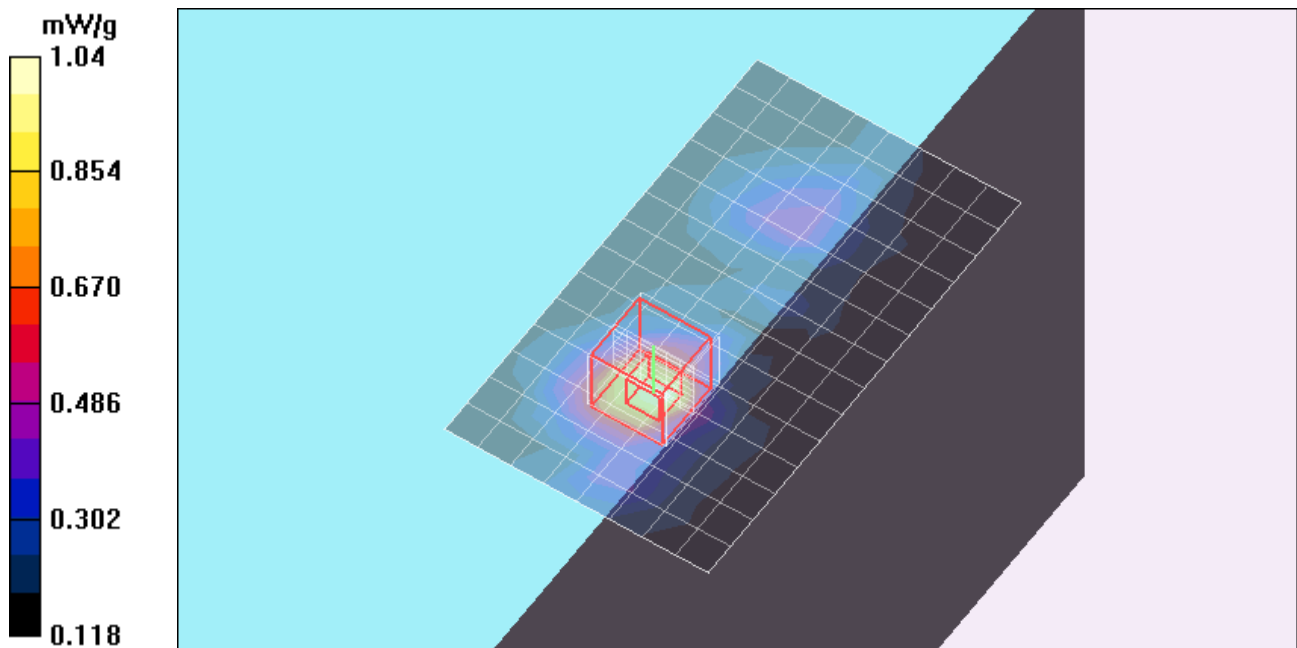
802.11n 40MHz SISO 5.5G Tx 1 - H ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 7.23 V/m; Power Drift = 0.673 dB

Peak SAR (extrapolated) = 2.47 W/kg

SAR(1 g) = 0.711 mW/g; SAR(10 g) = 0.375 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Test Laboratory: Compliance Certification Services

Laptop 5.5 GHz Band

DUT: MacBook; Type: n/a; Serial: n/a

Communication System: 802.11a; Frequency: 5550 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5550$ MHz; $\sigma = 5.94$ mho/m; $\epsilon_r = 45.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(3.99, 3.99, 3.99); Calibrated: 4/23/2008
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

802.11n 40MHz 5.5G Tx 0 & Tx 1 - L ch/Area Scan (9x19x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.68 mW/g

802.11n 40MHz 5.5G Tx 0 & Tx 1 - L ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid:

dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 12.9 V/m; Power Drift = 0.644 dB

Peak SAR (extrapolated) = 5.79 W/kg

SAR(1 g) = 1.23 mW/g; SAR(10 g) = 0.551 mW/g

Maximum value of SAR (measured) = 1.93 mW/g

802.11n 40MHz 5.5G Tx 0 & Tx 1 - L ch/Zoom Scan (7x7x9)/Cube 1: Measurement grid:

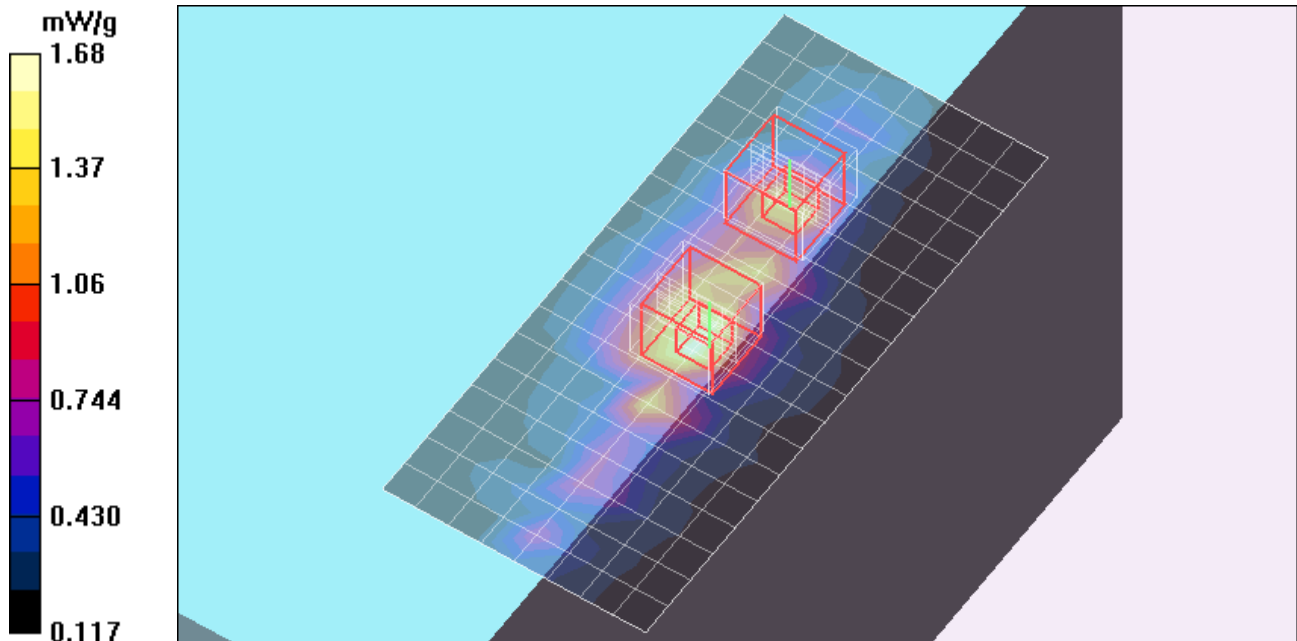
dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 12.9 V/m; Power Drift = 0.644 dB

Peak SAR (extrapolated) = 3.33 W/kg

SAR(1 g) = 0.988 mW/g; SAR(10 g) = 0.473 mW/g

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



Test Laboratory: Compliance Certification Services

Laptop 5.5 GHz Band

DUT: MacBook; Type: n/a; Serial: n/a

Communication System: 802.11a; Frequency: 5590 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 5590$ MHz; $\sigma = 5.93$ mho/m; $\epsilon_r = 45$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(3.5, 3.5, 3.5); Calibrated: 4/23/2008
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

802.11n 40MHz 5.5G Tx 0 & Tx 1 - H ch/Area Scan (9x19x1): Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.60 mW/g

802.11n 40MHz 5.5G Tx 0 & Tx 1 - H ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid:

dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 11.7 V/m; Power Drift = 0.583 dB

Peak SAR (extrapolated) = 3.78 W/kg

SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.528 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.68 mW/g

802.11n 40MHz 5.5G Tx 0 & Tx 1 - H ch/Zoom Scan (7x7x9)/Cube 1: Measurement grid:

dx=4mm, dy=4mm, dz=2.5mm

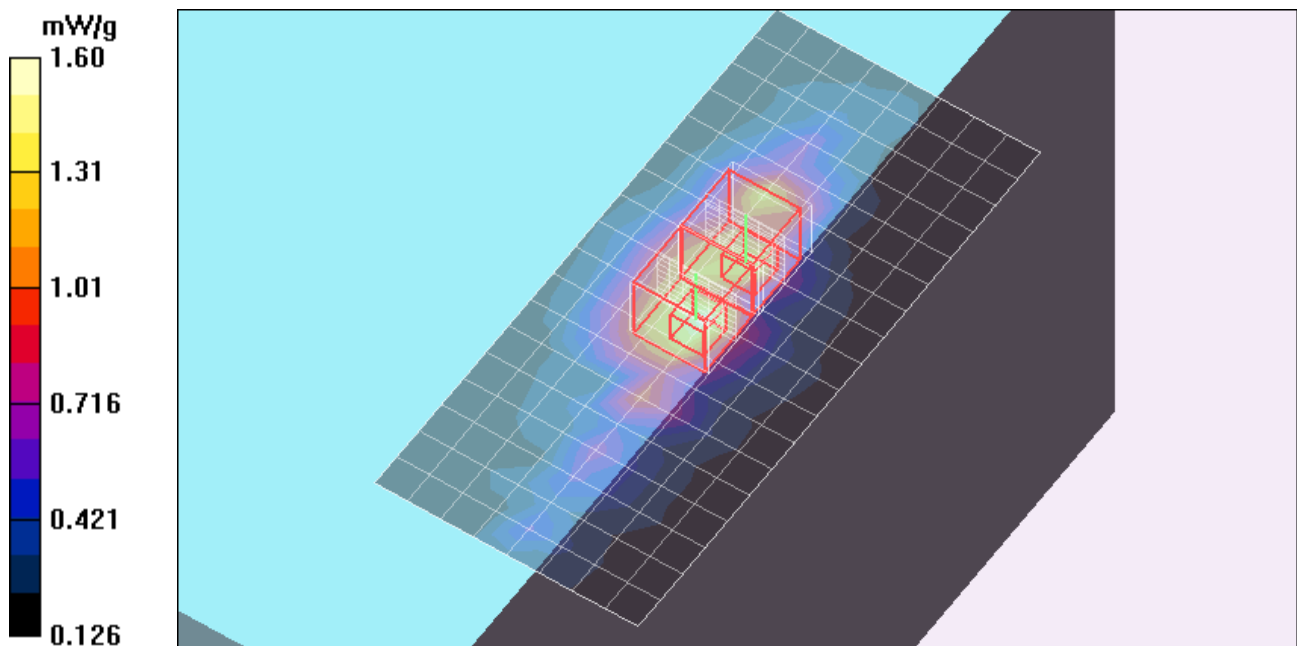
Reference Value = 11.7 V/m; Power Drift = 0.583 dB

Peak SAR (extrapolated) = 2.85 W/kg

SAR(1 g) = 0.888 mW/g; SAR(10 g) = 0.462 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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



Test Laboratory: Compliance Certification Services

Laptop 5.5 GHz Band

DUT: MacBook; Type: n/a; Serial: n/a

Communication System: 802.11a; Frequency: 5670 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 5670$ MHz; $\sigma = 6.04$ mho/m; $\epsilon_r = 44.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(3.5, 3.5, 3.5); Calibrated: 4/23/2008
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

802.11n 40MHz 5.5G Tx 0 & Tx 1 - H ch/Area Scan (9x19x1): Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

802.11n 40MHz 5.5G Tx 0 & Tx 1 - H ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid:

dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 14.4 V/m; Power Drift = 0.533 dB

Peak SAR (extrapolated) = 4.21 W/kg

SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.518 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

802.11n 40MHz 5.5G Tx 0 & Tx 1 - H ch/Zoom Scan (7x7x9)/Cube 1: Measurement grid:

dx=4mm, dy=4mm, dz=2.5mm

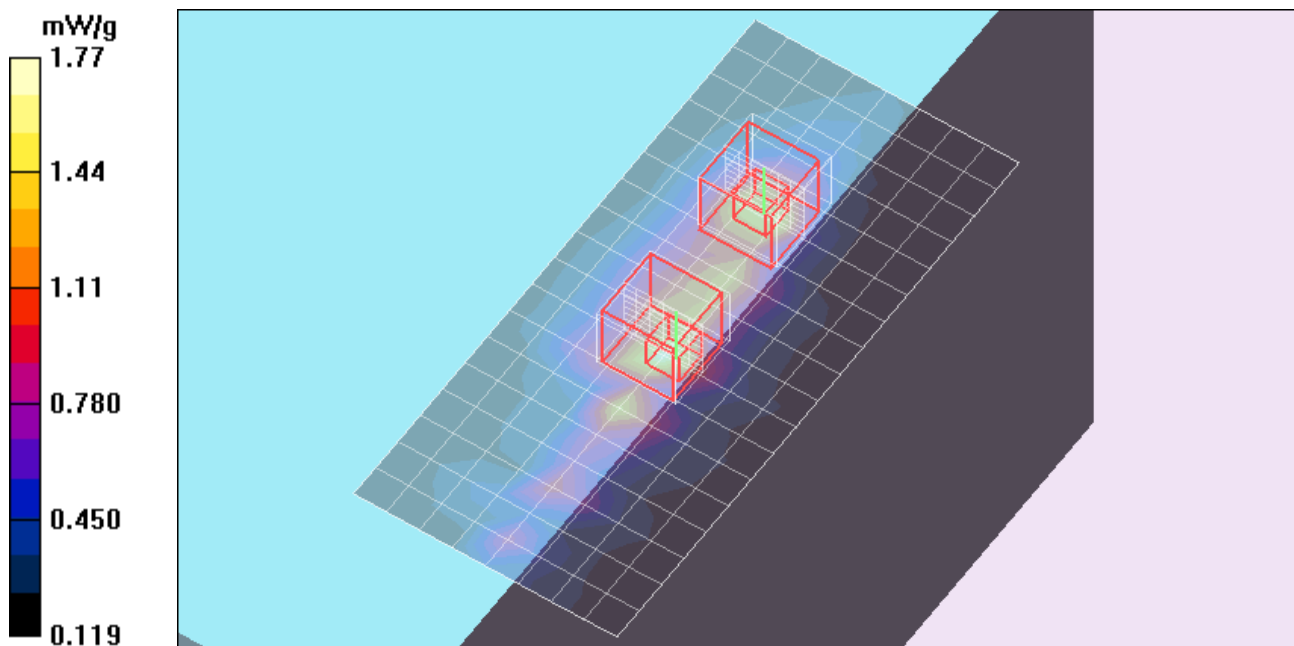
Reference Value = 14.4 V/m; Power Drift = 0.533 dB

Peak SAR (extrapolated) = 3.62 W/kg

SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.508 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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



Test Laboratory: Compliance Certification Services

Laptop 5.8 GHz Band

DUT: MacBook; Type: n/a; Serial: n/a

Communication System: 802.11abgn; Frequency: 5745 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 5745$ MHz; $\sigma = 6.19$ mho/m; $\epsilon_r = 45$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(3.7, 3.7, 3.7); Calibrated: 4/23/2008
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

802.11a 5.8G Tx 1 - L-ch/Area Scan (9x19x1): Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

802.11a 5.8G Tx 1 - L-ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 14.1 V/m; Power Drift = 0.464 dB

Peak SAR (extrapolated) = 4.03 W/kg

SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.529 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

802.11a 5.8G Tx 1 - L-ch/Zoom Scan (7x7x9)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

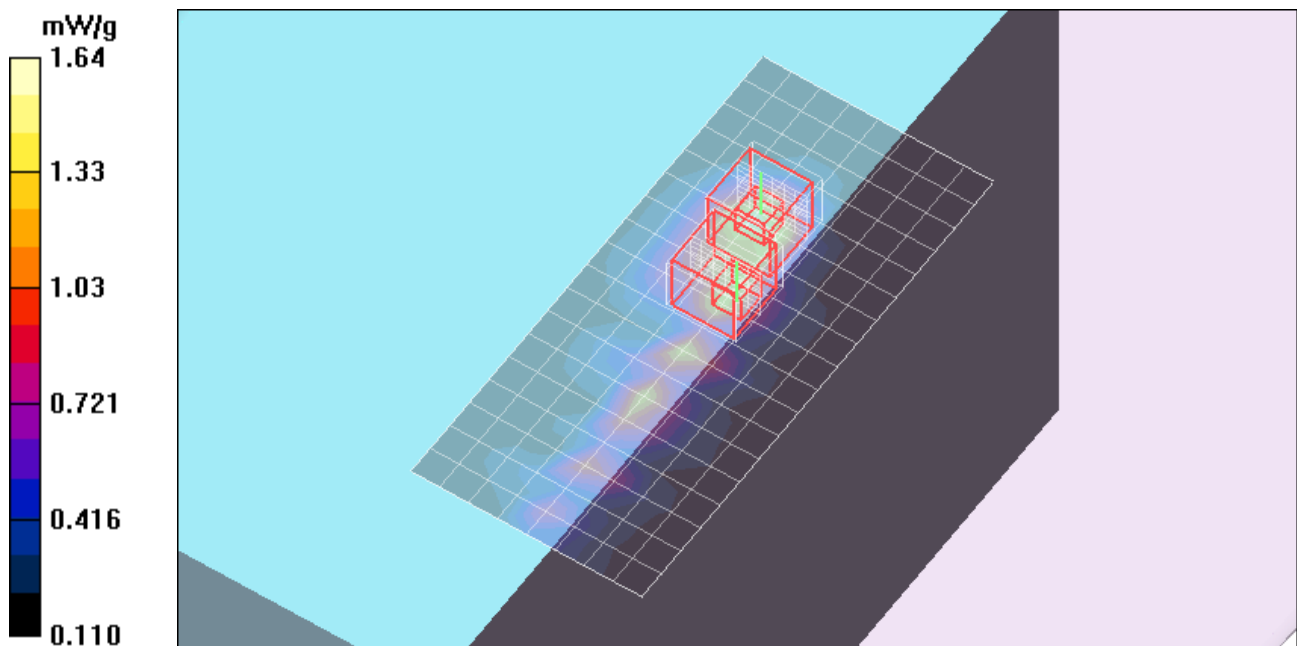
Reference Value = 14.1 V/m; Power Drift = 0.464 dB

Peak SAR (extrapolated) = 3.26 W/kg

SAR(1 g) = 0.927 mW/g; SAR(10 g) = 0.435 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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



Test Laboratory: Compliance Certification Services

Laptop 5.8 GHz Band

DUT: MacBook; Type: n/a; Serial: n/a

Communication System: 802.11abgn; Frequency: 5785 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 5785$ MHz; $\sigma = 6.24$ mho/m; $\epsilon_r = 45.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(3.7, 3.7, 3.7); Calibrated: 4/23/2008
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

802.11a 5.8G Tx 1 - M ch/Area Scan (9x19x1): Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.63 mW/g

802.11a 5.8G Tx 1 - M ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 14.2 V/m; Power Drift = 0.521 dB

Peak SAR (extrapolated) = 4.26 W/kg

SAR(1 g) = 1.14 mW/g; SAR(10 g) = 0.527 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

802.11a 5.8G Tx 1 - M ch/Zoom Scan (7x7x9)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

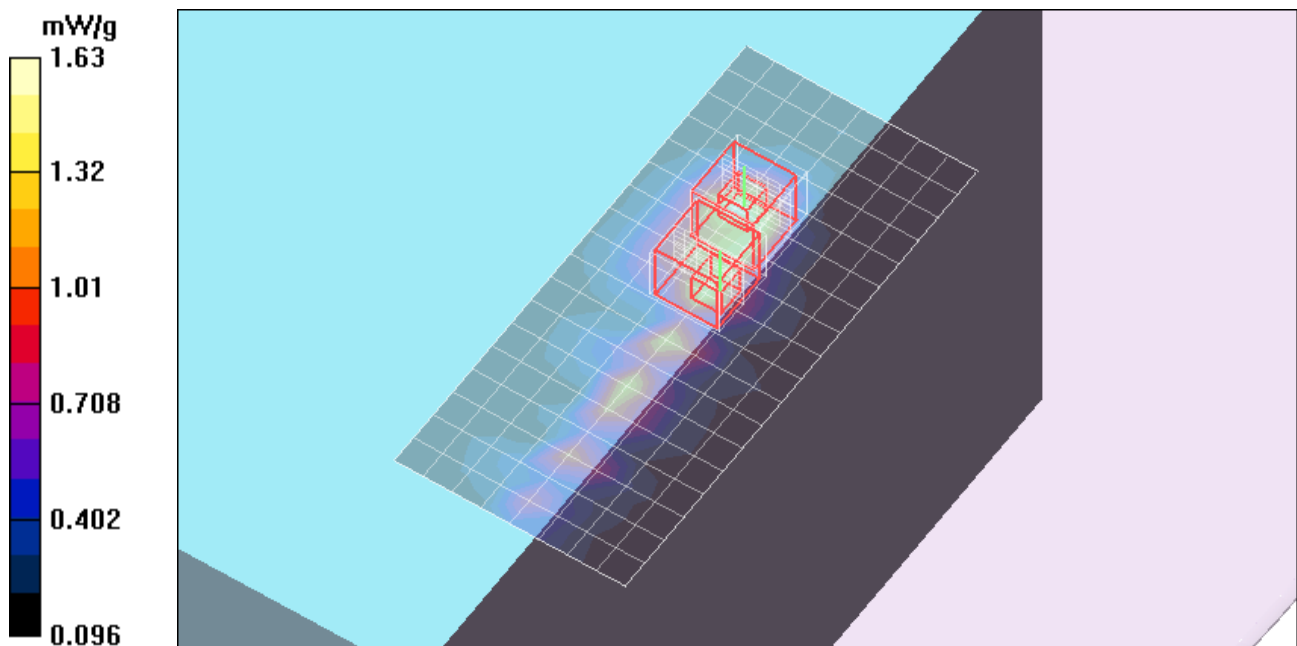
Reference Value = 14.2 V/m; Power Drift = 0.521 dB

Peak SAR (extrapolated) = 3.86 W/kg

SAR(1 g) = 1.03 mW/g; SAR(10 g) = 0.467 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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



Test Laboratory: Compliance Certification Services

Laptop 5.8 GHz Band

DUT: MacBook; Type: n/a; Serial: n/a

Communication System: 802.11abgn; Frequency: 5825 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 5825$ MHz; $\sigma = 6.28$ mho/m; $\epsilon_r = 44.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(3.7, 3.7, 3.7); Calibrated: 4/23/2008
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

802.11a 5.8G Tx 1 - H-ch/Area Scan (9x19x1): Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.98 mW/g

802.11a 5.8G Tx 1 - H-ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 14.3 V/m; Power Drift = 0.316 dB

Peak SAR (extrapolated) = 4.86 W/kg

SAR(1 g) = 1.35 mW/g; SAR(10 g) = 0.619 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.07 mW/g

802.11a 5.8G Tx 1 - H-ch/Zoom Scan (7x7x9)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

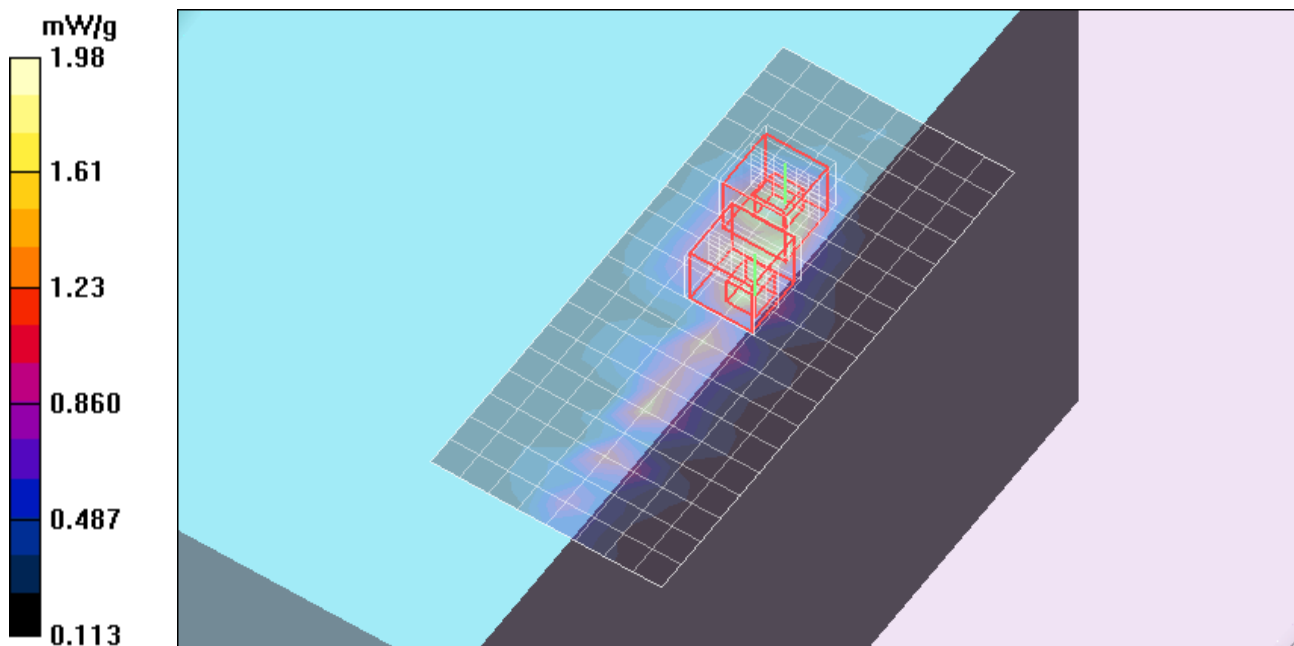
Reference Value = 14.3 V/m; Power Drift = 0.316 dB

Peak SAR (extrapolated) = 4.00 W/kg

SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.494 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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



Test Laboratory: Compliance Certification Services

Laptop 5.8 GHz Band

DUT: MacBook; Type: n/a; Serial: n/a

Communication System: 802.11abgn; Frequency: 5755 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 5755$ MHz; $\sigma = 6.21$ mho/m; $\epsilon_r = 45$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(3.7, 3.7, 3.7); Calibrated: 4/23/2008
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

802.11n SISO 40MHz 5.8G Tx 1- L-ch/Area Scan (9x19x1): Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

802.11n SISO 40MHz 5.8G Tx 1- L-ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 15.8 V/m; Power Drift = 0.242 dB

Peak SAR (extrapolated) = 4.66 W/kg

SAR(1 g) = 1.28 mW/g; SAR(10 g) = 0.576 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.93 mW/g

802.11n SISO 40MHz 5.8G Tx 1- L-ch/Zoom Scan (7x7x9)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

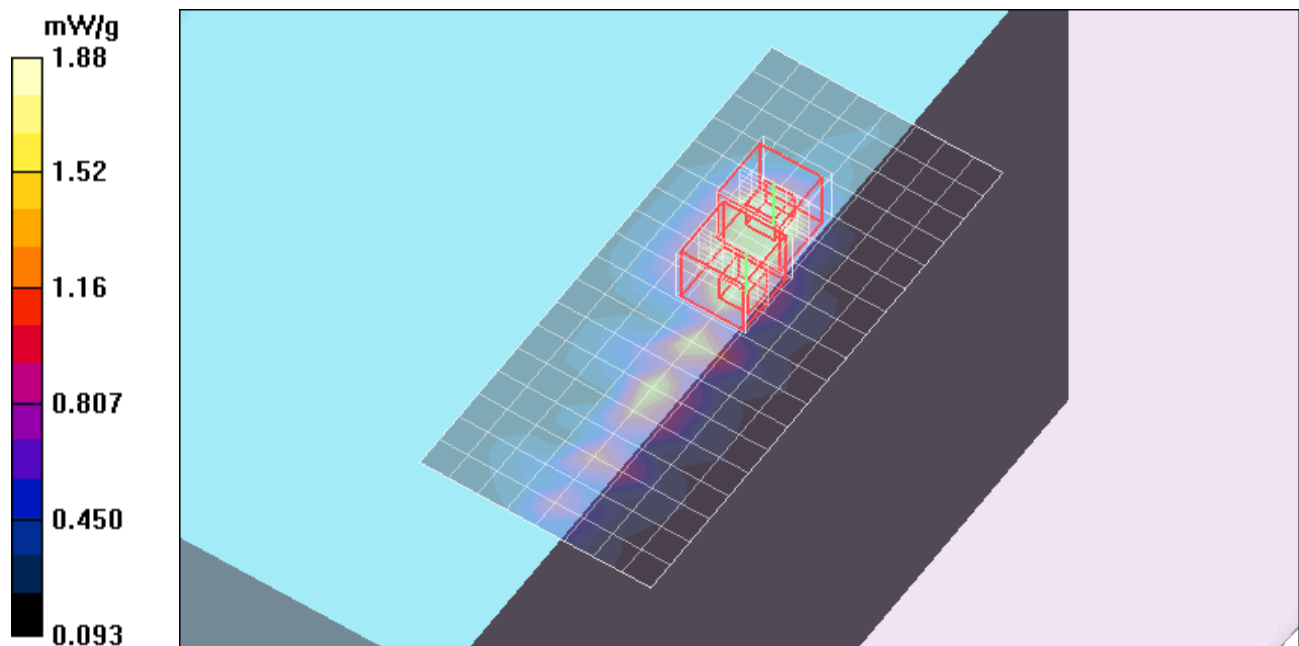
Reference Value = 15.8 V/m; Power Drift = 0.242 dB

Peak SAR (extrapolated) = 4.10 W/kg

SAR(1 g) = 1.13 mW/g; SAR(10 g) = 0.499 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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



Test Laboratory: Compliance Certification Services

Laptop 5.8 GHz Band

DUT: MacBook; Type: n/a; Serial: n/a

Communication System: 802.11abgn; Frequency: 5795 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 5795$ MHz; $\sigma = 6.25$ mho/m; $\epsilon_r = 45.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(3.7, 3.7, 3.7); Calibrated: 4/23/2008
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

802.11n SISO 40MHz 5.8G Tx 1- H-ch/Area Scan (9x19x1): Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.17 mW/g

802.11n SISO 40MHz 5.8G Tx 1- H-ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm,

dy=4mm, dz=2.5mm

Reference Value = 15.8 V/m; Power Drift = 0.515 dB

Peak SAR (extrapolated) = 5.43 W/kg

SAR(1 g) = 1.41 mW/g; SAR(10 g) = 0.635 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.19 mW/g

802.11n SISO 40MHz 5.8G Tx 1- H-ch/Zoom Scan (7x7x9)/Cube 1: Measurement grid: dx=4mm,

dy=4mm, dz=2.5mm

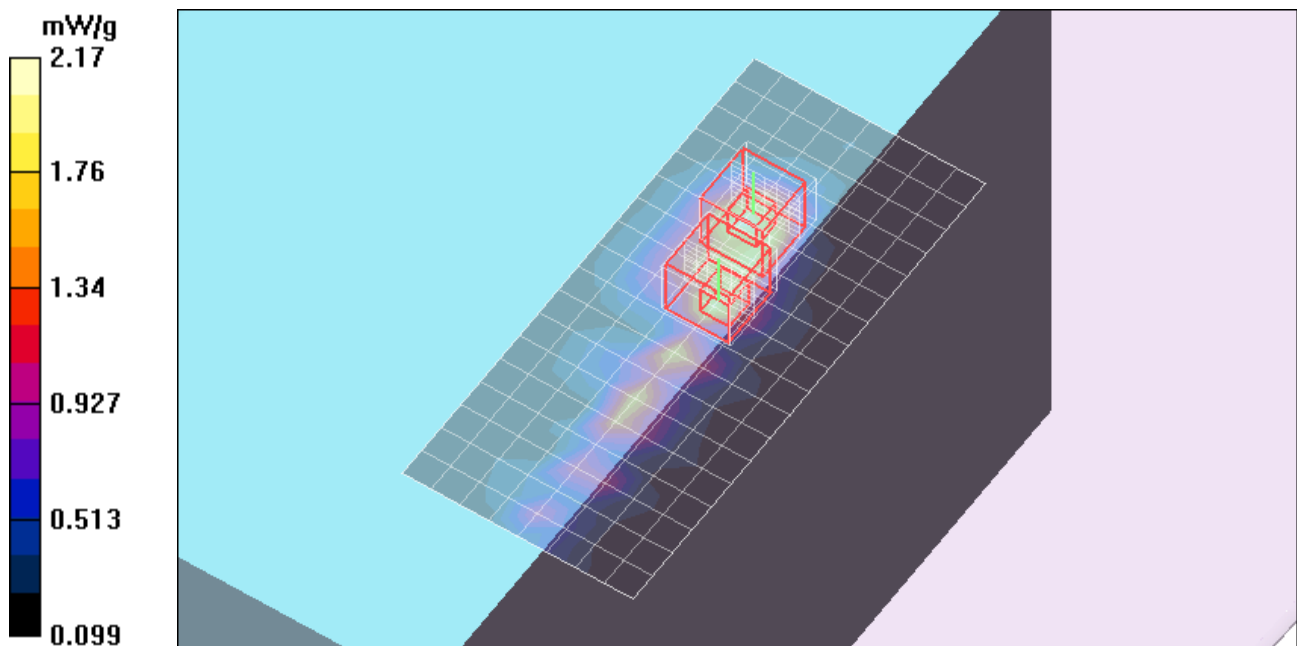
Reference Value = 15.8 V/m; Power Drift = 0.515 dB

Peak SAR (extrapolated) = 4.82 W/kg

SAR(1 g) = 1.26 mW/g; SAR(10 g) = 0.547 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.02 mW/g



Test Laboratory: Compliance Certification Services

Laptop 5.8 GHz Band

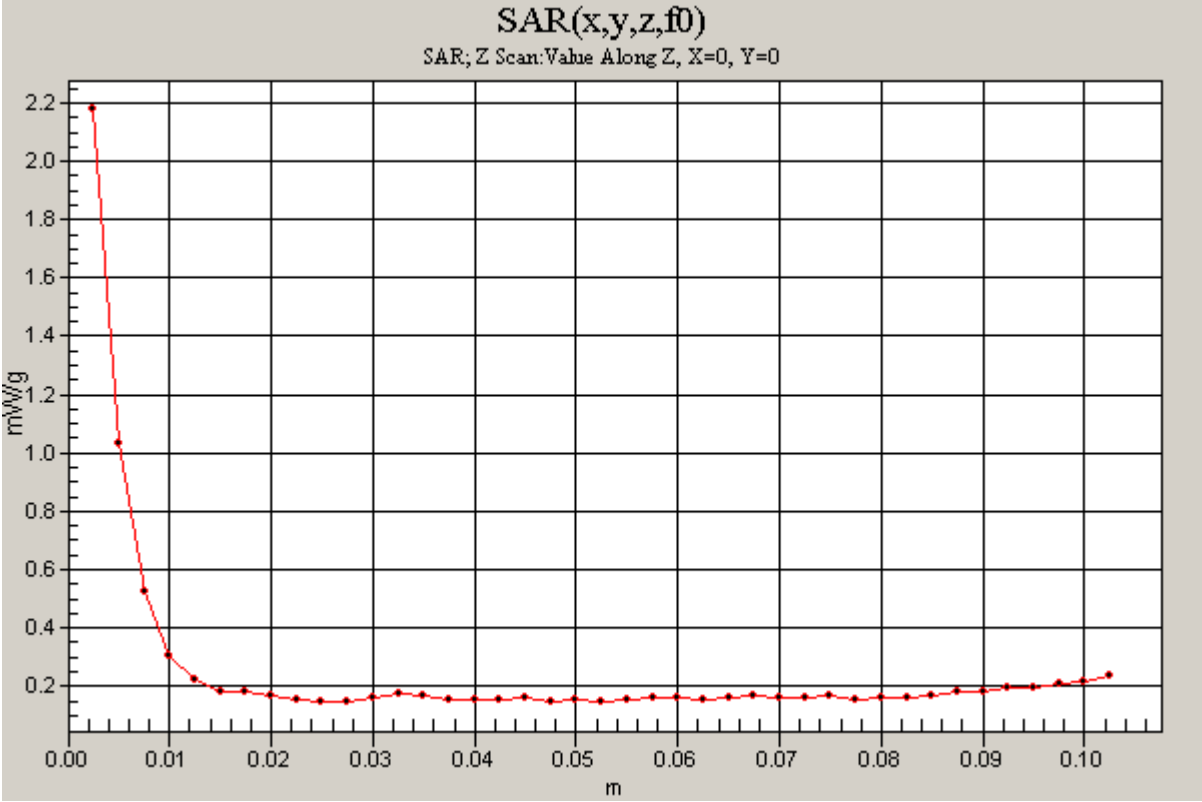
DUT: MacBook; Type: n/a; Serial: n/a

Communication System: 802.11abgn; Frequency: 5795 MHz;Duty Cycle: 1:1

802.11n SISO 40MHz 5.8G Tx 1- H-ch/Z Scan (1x1x41): Measurement grid: dx=20mm, dy=20mm, dz=2.5mm

Info: [Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.18 mW/g



Test Laboratory: Compliance Certification Services

Laptop 5.8 GHz Band

DUT: MacBook; Type: n/a; Serial: n/a

Communication System: 802.11abgn; Frequency: 5755 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 5755$ MHz; $\sigma = 6.21$ mho/m; $\epsilon_r = 45$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(3.7, 3.7, 3.7); Calibrated: 4/23/2008
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

802.11n 40MHz MIMO 5.8G Tx 1 & Tx 0 - L ch/Area Scan (9x19x1): Measurement grid: dx=10mm, dy=10mm

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

802.11n 40MHz MIMO 5.8G Tx 1 & Tx 0 - L ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid:

dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 14.0 V/m; Power Drift = 0.408 dB

Peak SAR (extrapolated) = 3.72 W/kg

SAR(1 g) = 1.03 mW/g; SAR(10 g) = 0.487 mW/g

Maximum value of SAR (measured) = 1.53 mW/g

802.11n 40MHz MIMO 5.8G Tx 1 & Tx 0 - L ch/Zoom Scan (7x7x9)/Cube 1: Measurement grid:

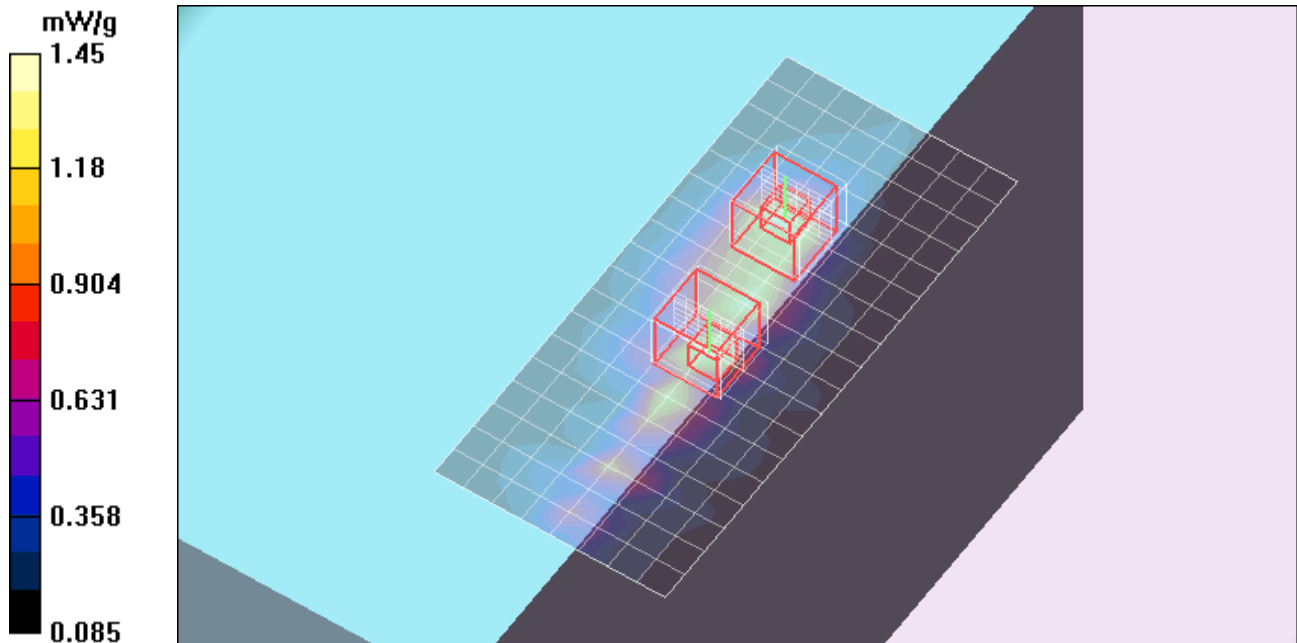
dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 14.0 V/m; Power Drift = 0.408 dB

Peak SAR (extrapolated) = 3.91 W/kg

SAR(1 g) = 0.999 mW/g; SAR(10 g) = 0.413 mW/g

Maximum value of SAR (measured) = 1.59 mW/g



Test Laboratory: Compliance Certification Services

Laptop 5.8 GHz Band

DUT: MacBook; Type: n/a; Serial: n/a

Communication System: 802.11abgn; Frequency: 5795 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 5795$ MHz; $\sigma = 6.25$ mho/m; $\epsilon_r = 45.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(3.7, 3.7, 3.7); Calibrated: 4/23/2008
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

802.11n 40MHz MIMO 5.8G Tx 1 & Tx 0 - H ch/Area Scan (9x19x1): Measurement grid:

$dx=10$ mm, $dy=10$ mm

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

802.11n 40MHz MIMO 5.8G Tx 1 & Tx 0 - H ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid:

$dx=4$ mm, $dy=4$ mm, $dz=2.5$ mm

Reference Value = 13.5 V/m; Power Drift = 0.455 dB

Peak SAR (extrapolated) = 4.04 W/kg

SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.483 mW/g

Maximum value of SAR (measured) = 1.63 mW/g

802.11n 40MHz MIMO 5.8G Tx 1 & Tx 0 - H ch/Zoom Scan (7x7x9)/Cube 1: Measurement grid:

$dx=4$ mm, $dy=4$ mm, $dz=2.5$ mm

Reference Value = 13.5 V/m; Power Drift = 0.455 dB

Peak SAR (extrapolated) = 3.80 W/kg

SAR(1 g) = 0.984 mW/g; SAR(10 g) = 0.445 mW/g

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

