

Test Laboratory: Compliance Certification Services Inc.

802.11b Bottom - AR5B197

DUT: AR5B197; Type: AR5B197 2x2 802.11n - BT Combo Card; Serial: n/a

Communication System: IEEE 802.11b WLAN; Frequency: 2462 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2462$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 51.7$; $\rho = 1000$ kg/m³

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: EX3DV4 - SN3665; ConvF(7.47, 7.47, 7.47);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2011/3/18
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1056
- Measurement SW: DASY5, V5.0 Build 125; Postprocessing SW: SEMCAD, V1.8 Build 186

Bottom High CH11/Area Scan (7x23x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.230 mW/g

Bottom High CH11/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 0.000 V/m; Power Drift = -0.048 dB

Peak SAR (extrapolated) = 0.474 W/kg

SAR(1 g) = 0.191 mW/g; SAR(10 g) = 0.079 mW/g

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

Bottom High CH11/Zoom Scan (7x7x9)/Cube 1:

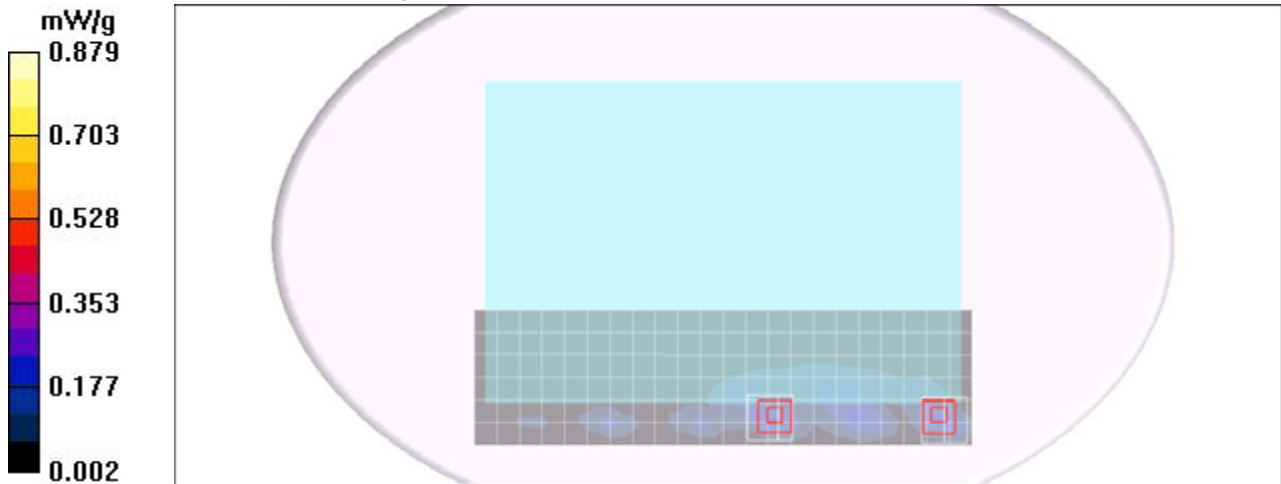
Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 0.000 V/m; Power Drift = -0.048 dB

Peak SAR (extrapolated) = 0.428 W/kg

SAR(1 g) = 0.176 mW/g; SAR(10 g) = 0.075 mW/g

Maximum value of SAR (measured) = 0.261 mW/g



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802.11g Bottom - AR5B197

DUT: AR5B197; Type: AR5B197 2x2 802.11n - BT Combo Card; Serial: n/a

Communication System: IEEE 802.11g WLAN; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.95$ mho/m; $\epsilon_r = 51.8$; $\rho = 1000$ kg/m³
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: EX3DV4 - SN3665; ConvF(7.47, 7.47, 7.47);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection) Sensor-Surface: 2.5mm (Fix Surface)
- Electronics: DAE4 Sn877; Calibrated: 2011/3/18
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1056
- Measurement SW: DASY5, V5.0 Build 125; Postprocessing SW: SEMCAD, V1.8 Build 186

Bottom Middle CH6/Area Scan (6x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.548 mW/g

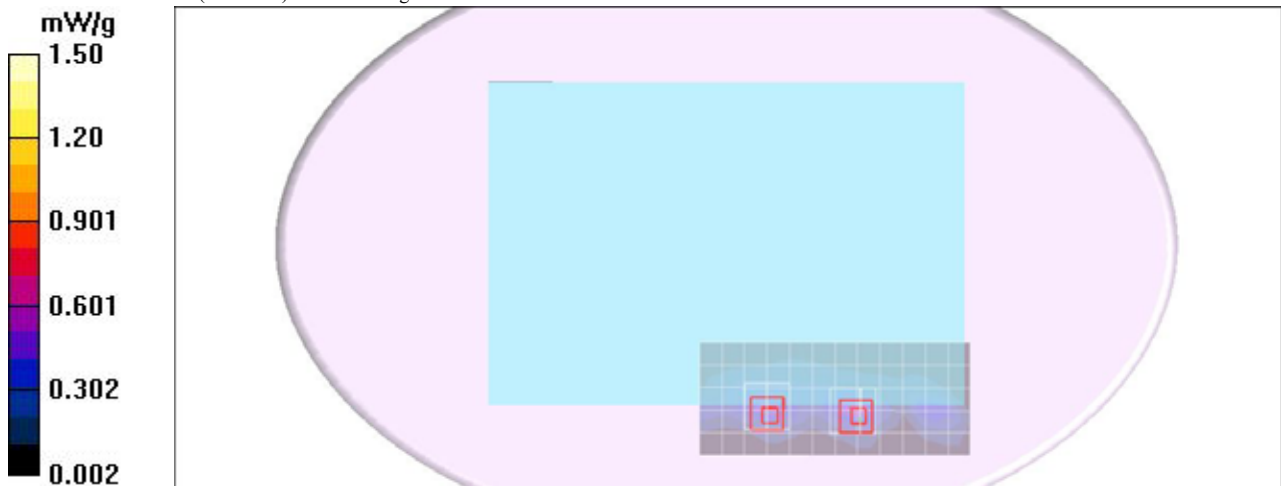
Bottom Middle CH6/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 0.000 V/m; Power Drift = -0.037 dB
Peak SAR (extrapolated) = 0.953 W/kg
SAR(1 g) = 0.396 mW/g; SAR(10 g) = 0.170 mW/g
Maximum value of SAR (measured) = 0.560 mW/g

Bottom Middle CH6/Zoom Scan (7x7x9)/Cube 1:

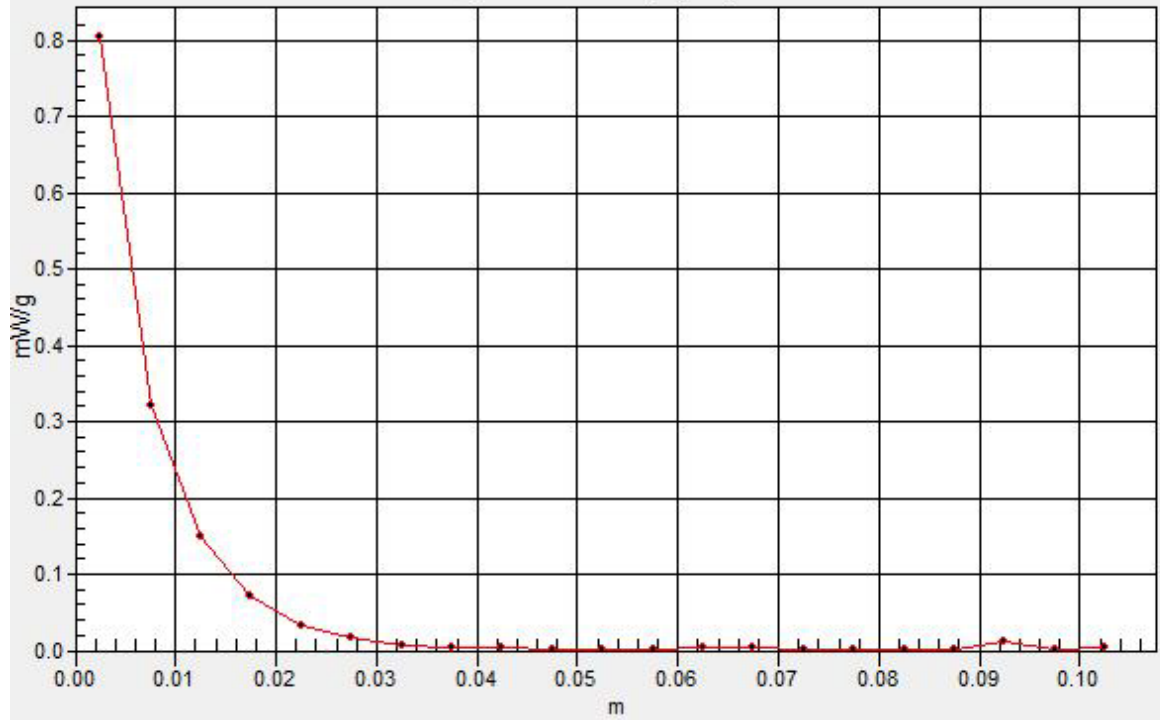
Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 0.000 V/m; Power Drift = -0.037 dB
Peak SAR (extrapolated) = 0.819 W/kg
SAR(1 g) = 0.344 mW/g; SAR(10 g) = 0.151 mW/g
Maximum value of SAR (measured) = 0.516 mW/g

Bottom Middle CH6/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Maximum value of SAR (measured) = 0.804 mW/g



SAR(x,y,z,f0)

SAR; Z Scan: Value Along Z, X=0, Y=0



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802.11n20 Bottom - AR5B197

DUT: AR5B197; Type: AR5B197 2x2 802.11n - BT Combo Card; Serial: n/a

Communication System: IEEE 802.11g WLAN HT20; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.95$ mho/m; $\epsilon_r = 51.8$; $\rho = 1000$ kg/m³
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: EX3DV4 - SN3665; ConvF(7.47, 7.47, 7.47);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2011/3/18
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1056
- Measurement SW: DASY5, V5.0 Build 125; Postprocessing SW: SEMCAD, V1.8 Build 186

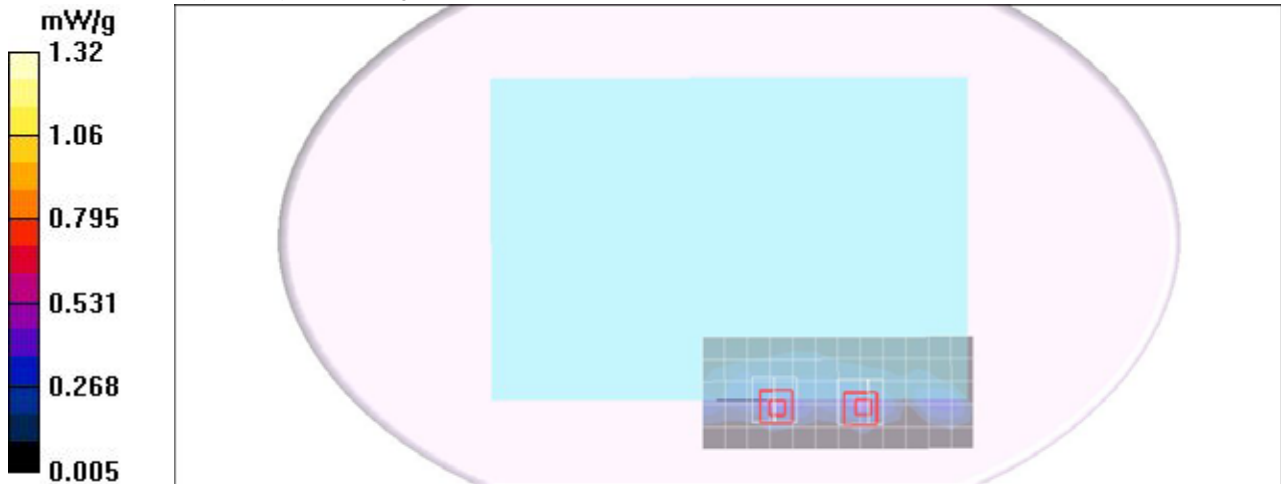
Bottom Middle CH6/Area Scan (6x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.442 mW/g

Bottom Middle CH6/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 0.000 V/m; Power Drift = -0.019 dB
Peak SAR (extrapolated) = 0.736 W/kg
SAR(1 g) = 0.313 mW/g; SAR(10 g) = 0.138 mW/g
Maximum value of SAR (measured) = 0.447 mW/g

Bottom Middle CH6/Zoom Scan (7x7x9)/Cube 1:

Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 0.000 V/m; Power Drift = -0.019 dB
Peak SAR (extrapolated) = 0.694 W/kg
SAR(1 g) = 0.290 mW/g; SAR(10 g) = 0.128 mW/g
Maximum value of SAR (measured) = 0.437 mW/g



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802.11n40 Bottom - AR5B197

DUT: AR5B197; Type: AR5B197 2x2 802.11n - BT Combo Card; Serial: n/a

Communication System: IEEE 802.11g WLAN HT40; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.95$ mho/m; $\epsilon_r = 51.8$; $\rho = 1000$ kg/m³
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: EX3DV4 - SN3665; ConvF(7.47, 7.47, 7.47);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2011/3/18
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1056
- Measurement SW: DASY5, V5.0 Build 125; Postprocessing SW: SEMCAD, V1.8 Build 186

Bottom Middle CH4/Area Scan (6x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.128 mW/g

Bottom Middle CH4/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 0.000 V/m; Power Drift = -0.112dB
Peak SAR (extrapolated) = 0.211 W/kg
SAR(1 g) = 0.093 mW/g; SAR(10 g) = 0.041 mW/g
Maximum value of SAR (measured) = 0.136 mW/g

Bottom Middle CH4/Zoom Scan (7x7x9)/Cube 1:

Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 0.000 V/m; Power Drift = -0.112dB
Peak SAR (extrapolated) = 0.195 W/kg
SAR(1 g) = 0.084 mW/g; SAR(10 g) = 0.037 mW/g
Maximum value of SAR (measured) = 0.125 mW/g

