

Test Laboratory: UL CCS SAR Lab D

5GHz_Body

DUT: Apple; Type: 17 inch; Serial: N/A

Communication System: 802.11abgn; Frequency: 5200 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5200$ MHz; $\sigma = 5.47$ mho/m; $\epsilon_r = 48.6$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

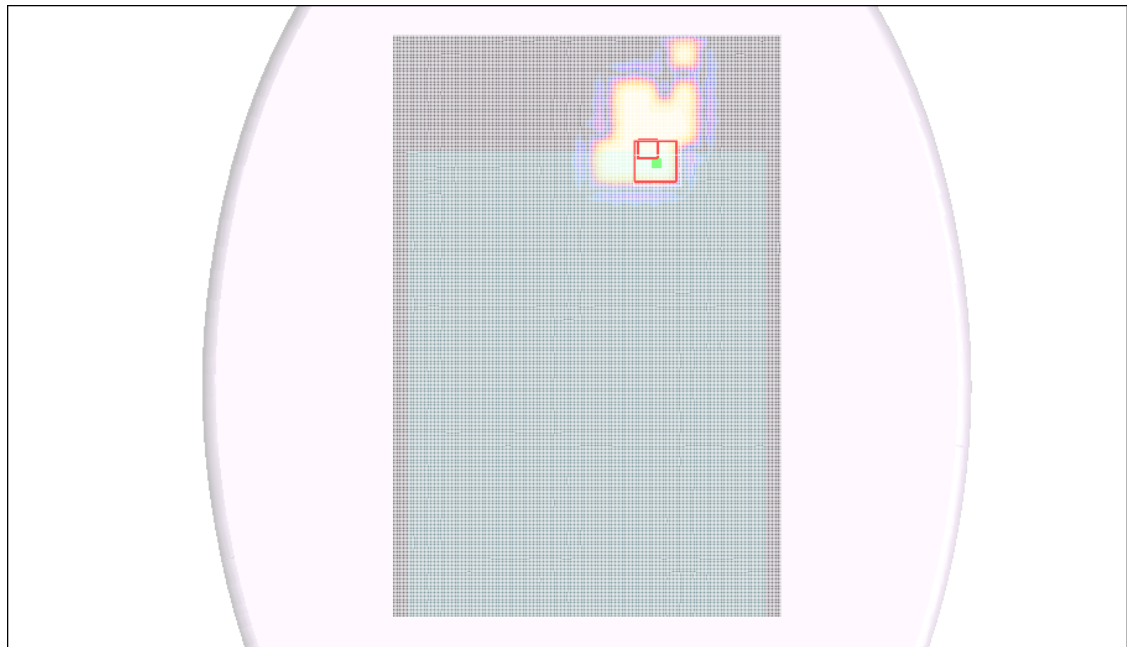
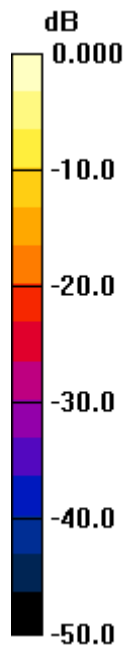
Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3749; ConvF(4.07, 4.07, 4.07); Calibrated: 12/13/2010
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1259; Calibrated: 5/3/2011
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BB; Serial: SN:1017
- Measurement SW: DASY4, V4.7 Build 80; Post processing SW: SEMCAD, V1.8 Build 186

Rear/Base_Ch40/Area Scan (201x301x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.138 mW/g

Rear/Base_Ch40/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 2.96 V/m; Power Drift = 0.136 dB
Peak SAR (extrapolated) = 0.332 W/kg
SAR(1 g) = 0.038 mW/g; SAR(10 g) = 0.013 mW/g
Maximum value of SAR (measured) = 0.051 mW/g



0 dB = 0.051mW/g

Test Laboratory: UL CCS SAR Lab D

5GHz_Body

DUT: Apple; Type: 17 inch; Serial: N/A

Communication System: 802.11abgn; Frequency: 5200 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5200$ MHz; $\sigma = 5.47$ mho/m; $\epsilon_r = 48.6$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 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: EX3DV4 - SN3749; ConvF(4.07, 4.07, 4.07); Calibrated: 12/13/2010
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1259; Calibrated: 5/3/2011
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BB; Serial: SN:1017
- Measurement SW: DASY4, V4.7 Build 80; Post processing SW: SEMCAD, V1.8 Build 186

Bottom_Ch40/Area Scan (81x201x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.923 mW/g

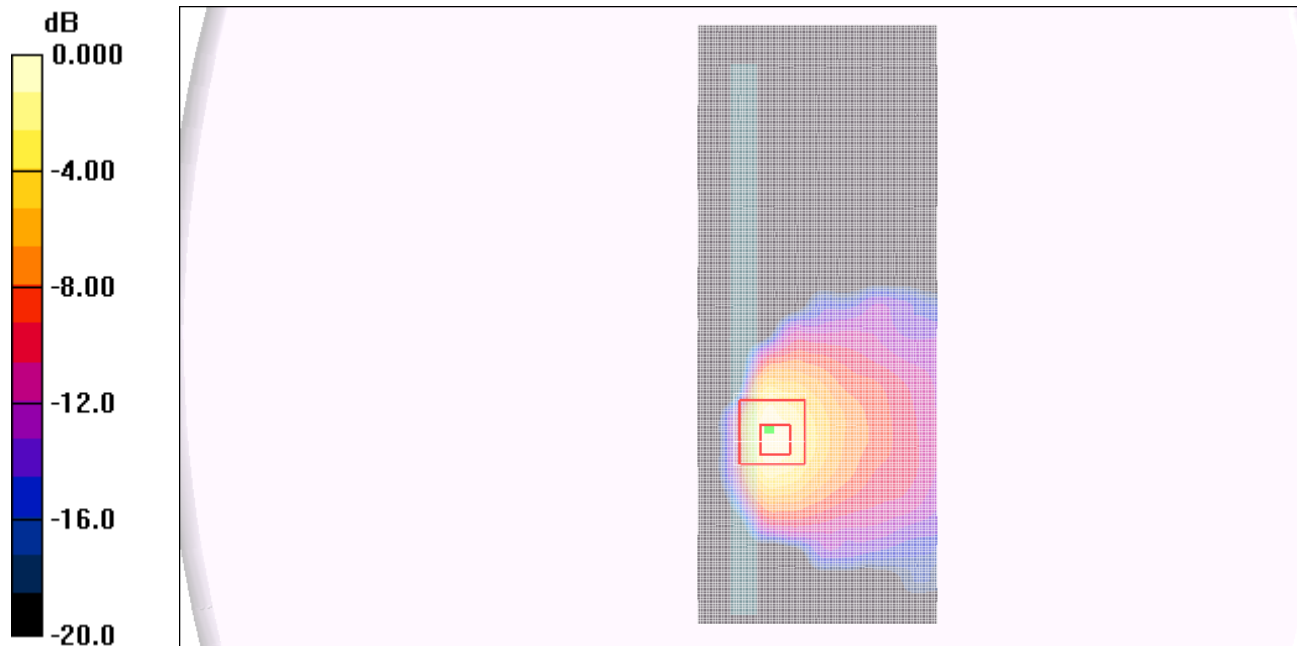
Bottom_Ch40/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 12.2 V/m; Power Drift = 0.187 dB

Peak SAR (extrapolated) = 1.67 W/kg

SAR(1 g) = 0.517 mW/g; SAR(10 g) = 0.170 mW/g

Maximum value of SAR (measured) = 0.888 mW/g



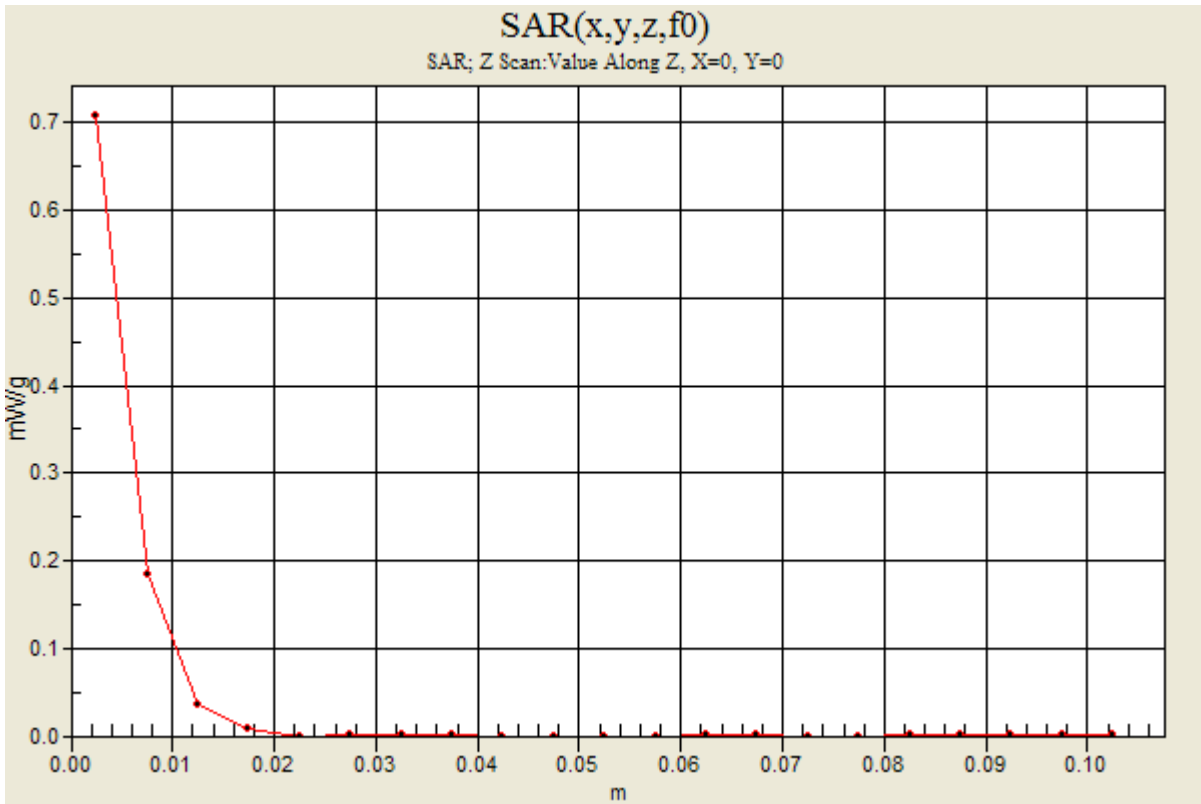
0 dB = 0.888mW/g

Test Laboratory: UL CCS SAR Lab D

5GHz_Body

Communication System: 802.11abgn; Frequency: 5200 MHz; Duty Cycle: 1:1

Bottom_Ch40/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Maximum value of SAR (measured) = 0.708 mW/g



Test Laboratory: UL CCS SAR Lab A

WiFi 5GHz_Body

Communication System: WLAN 5GHz; Frequency: 5200 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5200$ MHz; $\sigma = 5.343$ mho/m; $\epsilon_r = 49.128$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

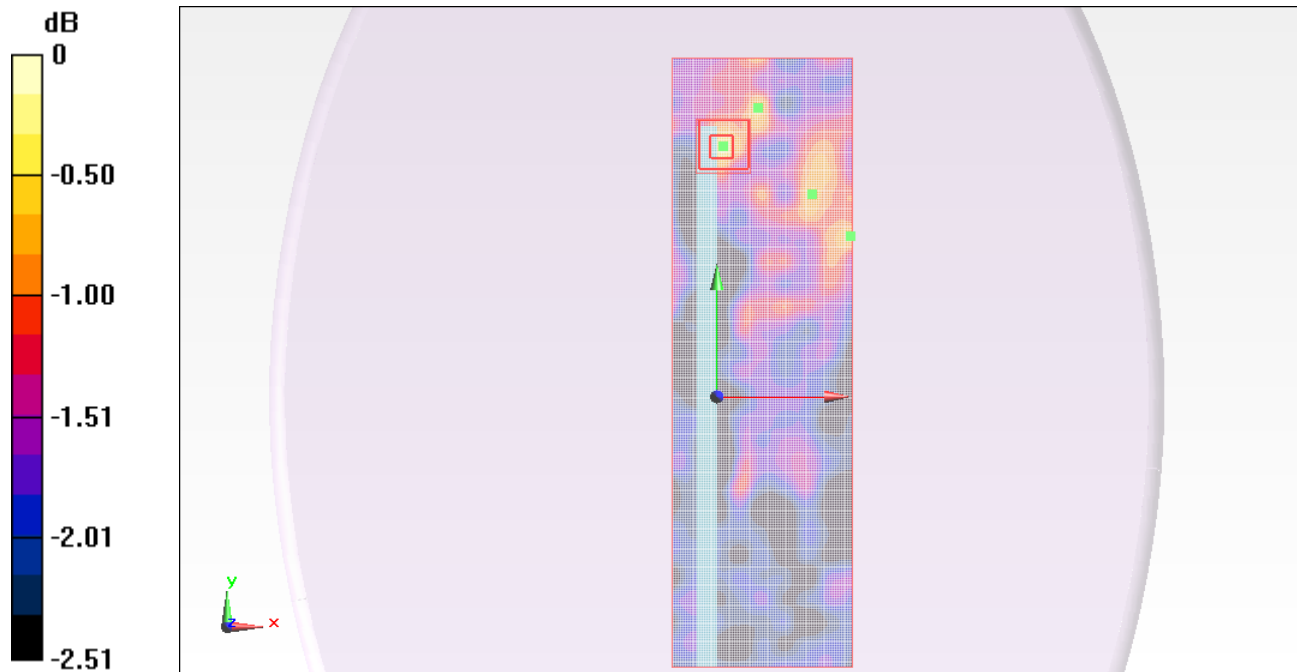
Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3686; ConvF(3.98, 3.98, 3.98); Calibrated: 1/24/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 7/14/2011
- Phantom: ELI v4.0(A); Type: QDOVA001BB; Serial: 1119
- Measurement SW: DASY52, Version 52.6 (2);SEMCAD X Version 14.4.5 (3634)

Right Edge/Ch 40/Area Scan (81x271x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.047 mW/g

Right Edge/Ch 40/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 3.167 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.056 W/kg
SAR(1 g) = 0.042 mW/g; SAR(10 g) = 0.040 mW/g
Maximum value of SAR (measured) = 0.053 mW/g



0 dB = 0.050mW/g

Test Laboratory: UL CCS SAR Lab A

WiFi 5GHz_Body

Communication System: WLAN 5GHz; Frequency: 5300 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 5300$ MHz; $\sigma = 5.587$ mho/m; $\epsilon_r = 49.014$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

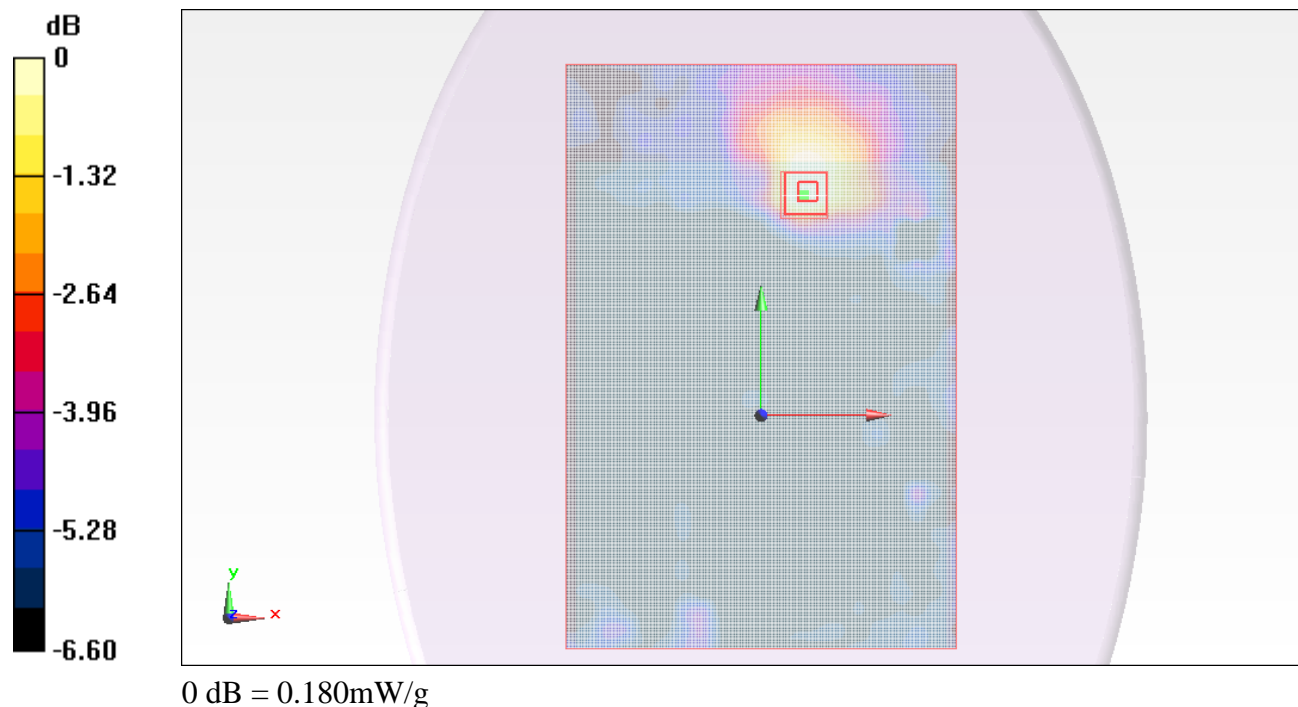
Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3686; ConvF(3.7, 3.7, 3.7); Calibrated: 1/24/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 7/14/2011
- Phantom: ELI v4.0(A); Type: QDOVA001BB; Serial: 1119
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

Rear/Base/Ch 60/Area Scan (201x301x1): Measurement grid: dx=10mm, dy=10mm
 Maximum value of SAR (interpolated) = 0.195 mW/g

Rear/Base/Ch 60/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
 Reference Value = 6.461 V/m; Power Drift = -0.17 dB
 Peak SAR (extrapolated) = 0.468 W/kg
SAR(1 g) = 0.125 mW/g; SAR(10 g) = 0.079 mW/g
 Maximum value of SAR (measured) = 0.182 mW/g



Test Laboratory: UL CCS SAR Lab A

WiFi 5GHz_Body

Communication System: WLAN 5GHz; Frequency: 5260 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5260$ MHz; $\sigma = 5.522$ mho/m; $\epsilon_r = 49.083$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

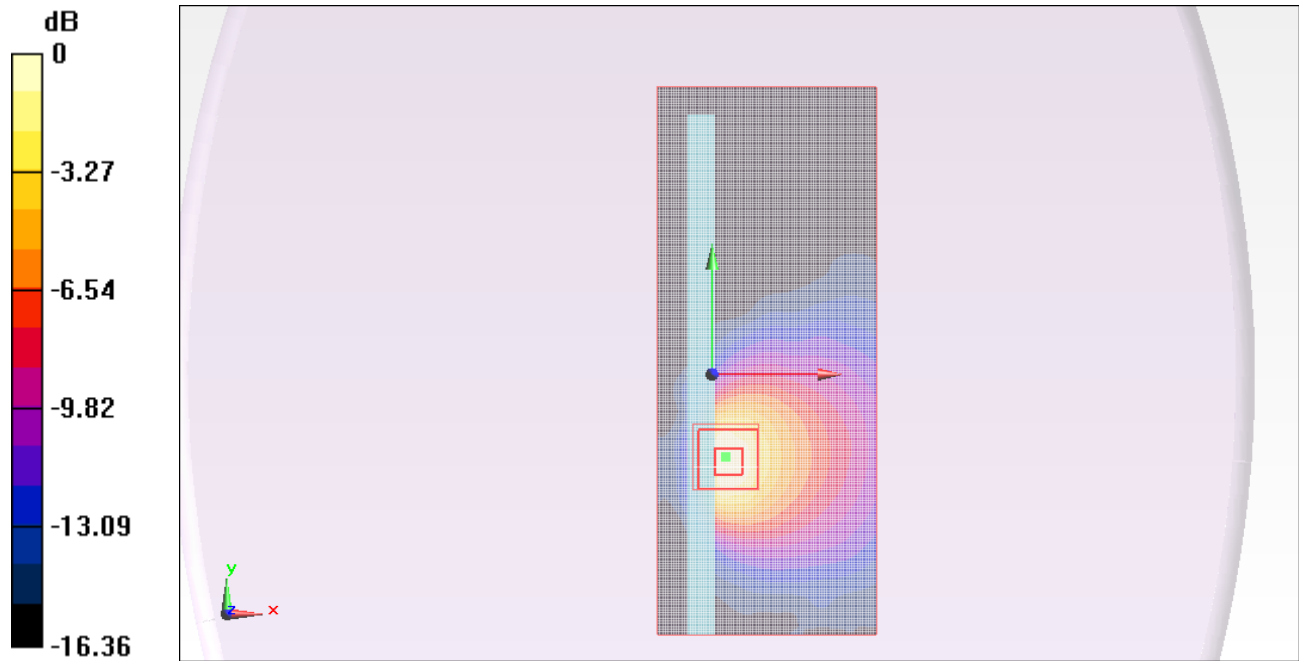
Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3686; ConvF(3.7, 3.7, 3.7); Calibrated: 1/24/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 7/14/2011
- Phantom: ELI v4.0(A); Type: QDOVA001BB; Serial: 1119
- Measurement SW: DASY52, Version 52.6 (2);SEMCAD X Version 14.4.5 (3634)

Bottom/Ch 52/Area Scan (81x201x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 2.156 mW/g

Bottom/Ch 52/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 17.657 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 3.409 W/kg
SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.417 mW/g
Maximum value of SAR (measured) = 1.819 mW/g



0 dB = 1.820mW/g

Test Laboratory: UL CCS SAR Lab A

WiFi 5GHz_Body

Communication System: WLAN 5GHz; Frequency: 5300 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5300$ MHz; $\sigma = 5.587$ mho/m; $\epsilon_r = 49.014$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

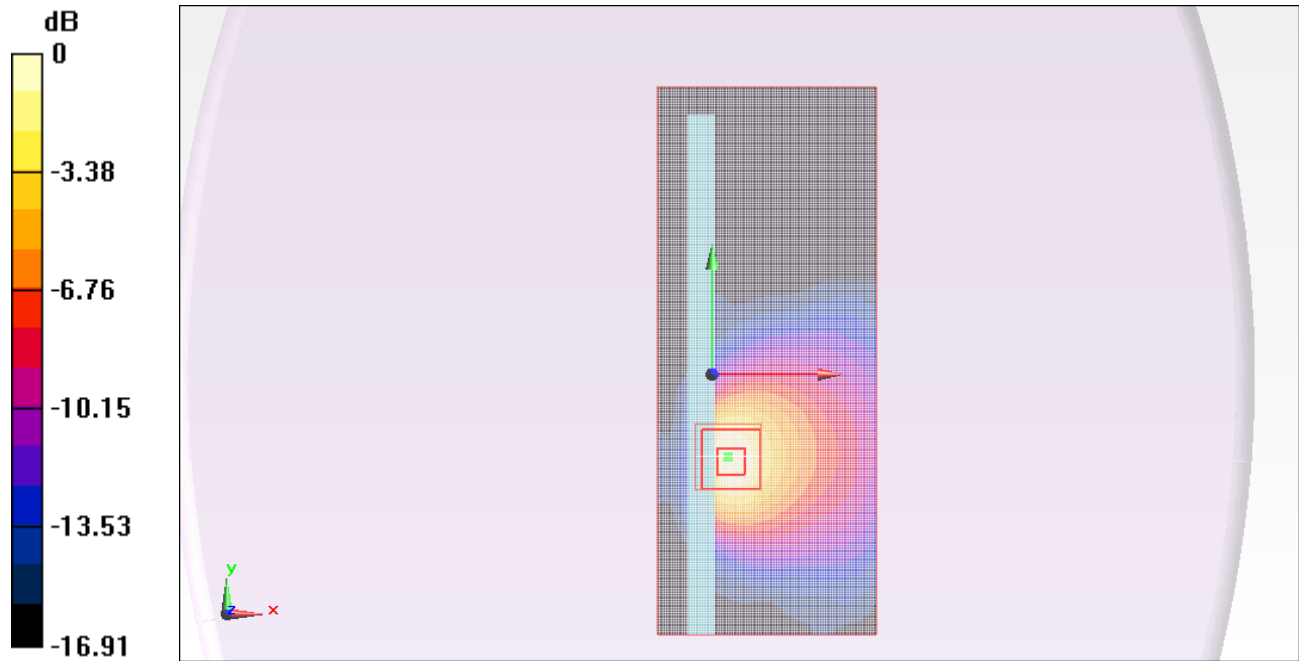
Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3686; ConvF(3.7, 3.7, 3.7); Calibrated: 1/24/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 7/14/2011
- Phantom: ELI v4.0(A); Type: QDOVA001BB; Serial: 1119
- Measurement SW: DASY52, Version 52.6 (2);SEMCAD X Version 14.4.5 (3634)

Bottom/Ch 60/Area Scan (81x201x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 2.099 mW/g

Bottom/Ch 60/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 15.123 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 3.626 W/kg
SAR(1 g) = 1.14 mW/g; SAR(10 g) = 0.433 mW/g
Maximum value of SAR (measured) = 1.902 mW/g



0 dB = 1.900mW/g

Test Laboratory: UL CCS SAR Lab A

WiFi 5GHz_Body

Communication System: WLAN 5GHz; Frequency: 5320 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 5320$ MHz; $\sigma = 5.611$ mho/m; $\epsilon_r = 49.004$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

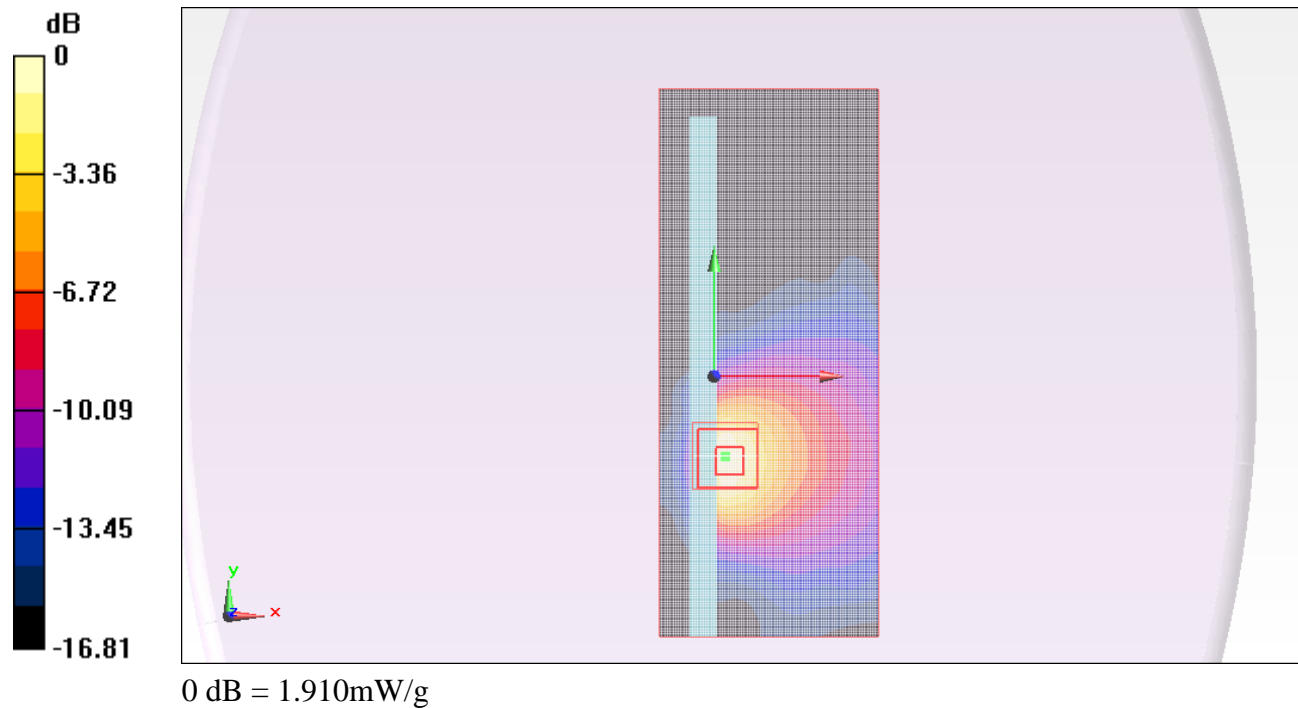
Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3686; ConvF(3.7, 3.7, 3.7); Calibrated: 1/24/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 7/14/2011
- Phantom: ELI v4.0(A); Type: QDOVA001BB; Serial: 1119
- Measurement SW: DASY52, Version 52.6 (2);SEMCAD X Version 14.4.5 (3634)

Bottom/Ch 64/Area Scan (81x201x1): Measurement grid: dx=10mm, dy=10mm
 Maximum value of SAR (interpolated) = 2.142 mW/g

Bottom/Ch 64/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
 Reference Value = 17.599 V/m; Power Drift = 0.05 dB
 Peak SAR (extrapolated) = 3.718 W/kg
SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.436 mW/g
 Maximum value of SAR (measured) = 1.908 mW/g

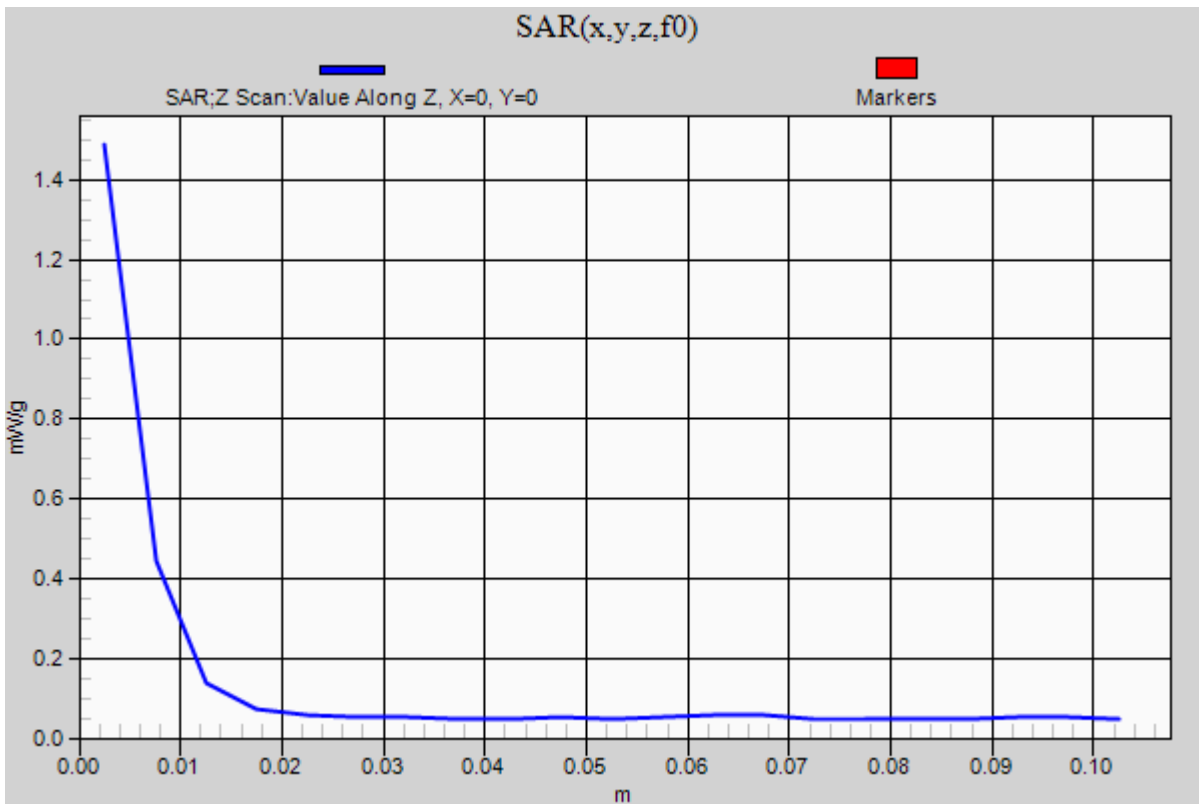


Test Laboratory: UL CCS SAR Lab A

WiFi 5GHz_Body

Communication System: WLAN 5GHz; Frequency: 5320 MHz; Duty Cycle: 1:1

Bottom/Ch 64/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Maximum value of SAR (measured) = 1.488 mW/g



Test Laboratory: UL CCS SAR Lab A

WiFi 5GHz_Body

Communication System: WLAN 5GHz; Frequency: 5300 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 5300$ MHz; $\sigma = 5.587$ mho/m; $\epsilon_r = 49.014$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3686; ConvF(3.7, 3.7, 3.7); Calibrated: 1/24/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 7/14/2011
- Phantom: ELI v4.0(A); Type: QDOVA001BB; Serial: 1119
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

Right Edge/Ch 60/Area Scan (81x271x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.070 mW/g

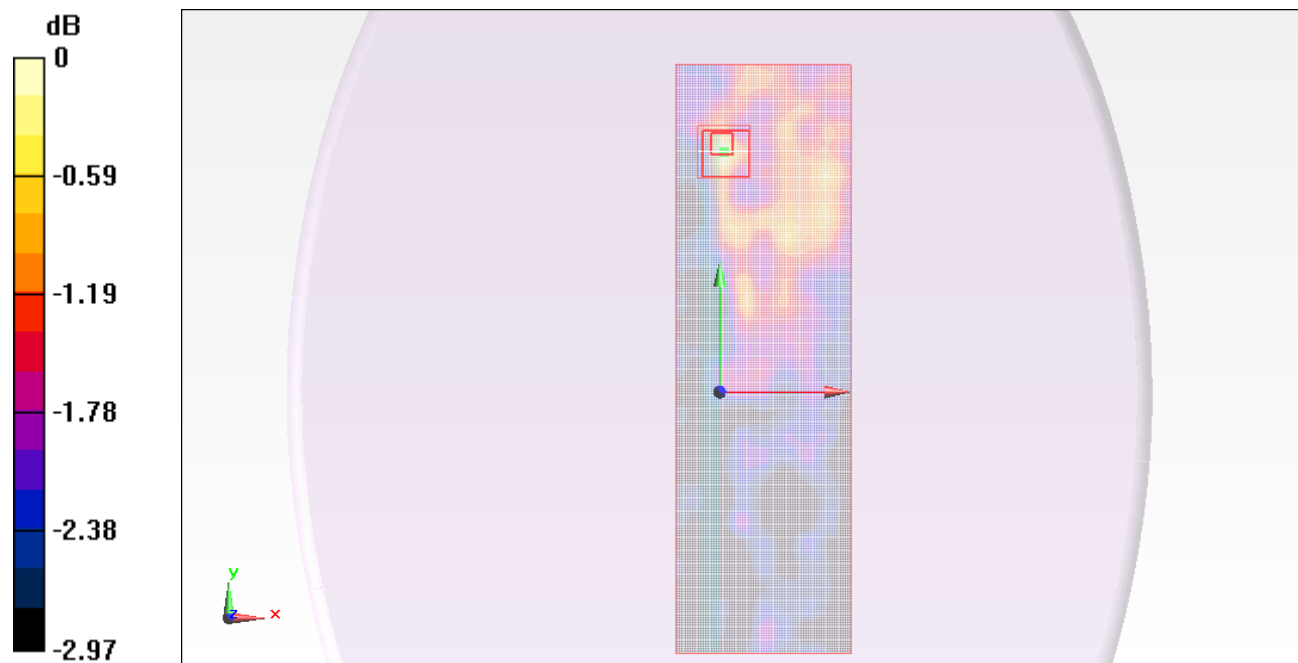
Right Edge/Ch 60/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 3.899 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.149 W/kg

SAR(1 g) = 0.056 mW/g; SAR(10 g) = 0.048 mW/g

Maximum value of SAR (measured) = 0.069 mW/g



0 dB = 0.070mW/g

Test Laboratory: UL CCS SAR Lab A

WiFi 5GHz_Body

Communication System: WLAN 5GHz; Frequency: 5600 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5600$ MHz; $\sigma = 5.784$ mho/m; $\epsilon_r = 47.969$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

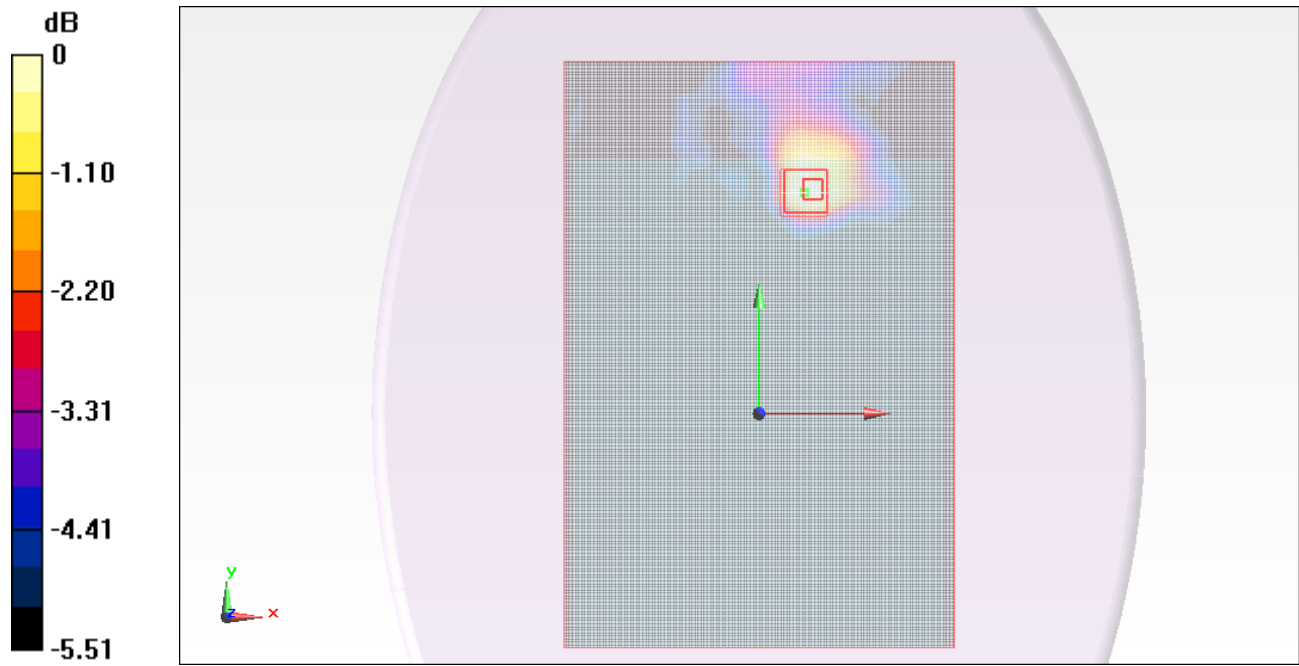
Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3686; ConvF(3.29, 3.29, 3.29); Calibrated: 1/24/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 7/14/2011
- Phantom: ELI v4.0(A); Type: QDOVA001BB; Serial: 1119
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

Rear/Base/Ch 120/Area Scan (201x301x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.195 mW/g

Rear/Base/Ch 120/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 6.137 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.317 W/kg
SAR(1 g) = 0.140 mW/g; SAR(10 g) = 0.093 mW/g
Maximum value of SAR (measured) = 0.189 mW/g



0 dB = 0.190mW/g

Test Laboratory: UL CCS SAR Lab A

WiFi 5GHz_Body

Communication System: WLAN 5GHz; Frequency: 5500 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 5500$ MHz; $\sigma = 5.654$ mho/m; $\epsilon_r = 48.145$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

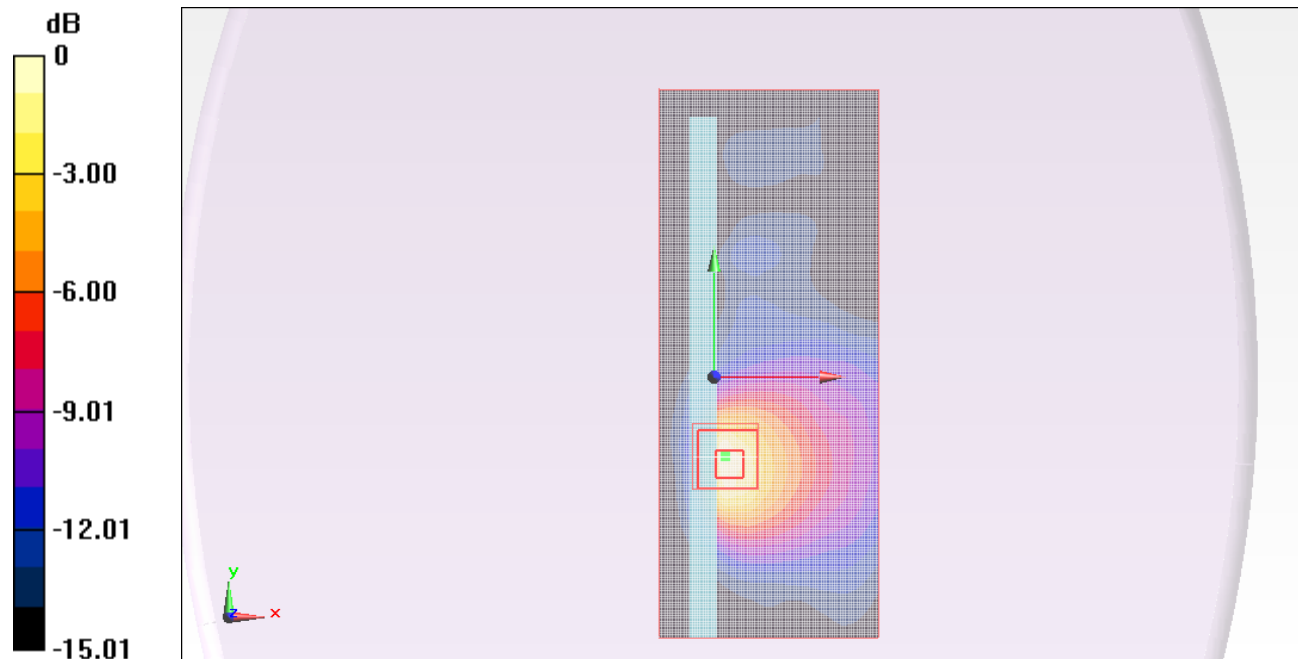
Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3686; ConvF(3.56, 3.56, 3.56); Calibrated: 1/24/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 7/14/2011
- Phantom: ELI v4.0(A); Type: QDOVA001BB; Serial: 1119
- Measurement SW: DASY52, Version 52.6 (2);SEMCAD X Version 14.4.5 (3634)

Bottom/Ch 100/Area Scan (81x201x1): Measurement grid: dx=10mm, dy=10mm
 Maximum value of SAR (interpolated) = 1.496 mW/g

Bottom/Ch 100/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
 Reference Value = 15.923 V/m; Power Drift = 0.15 dB
 Peak SAR (extrapolated) = 2.943 W/kg
SAR(1 g) = 0.911 mW/g; SAR(10 g) = 0.348 mW/g
 Maximum value of SAR (measured) = 1.495 mW/g



0 dB = 1.500mW/g

Test Laboratory: UL CCS SAR Lab A

WiFi 5GHz_Body

Communication System: WLAN 5GHz; Frequency: 5600 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 5600$ MHz; $\sigma = 5.784$ mho/m; $\epsilon_r = 47.969$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

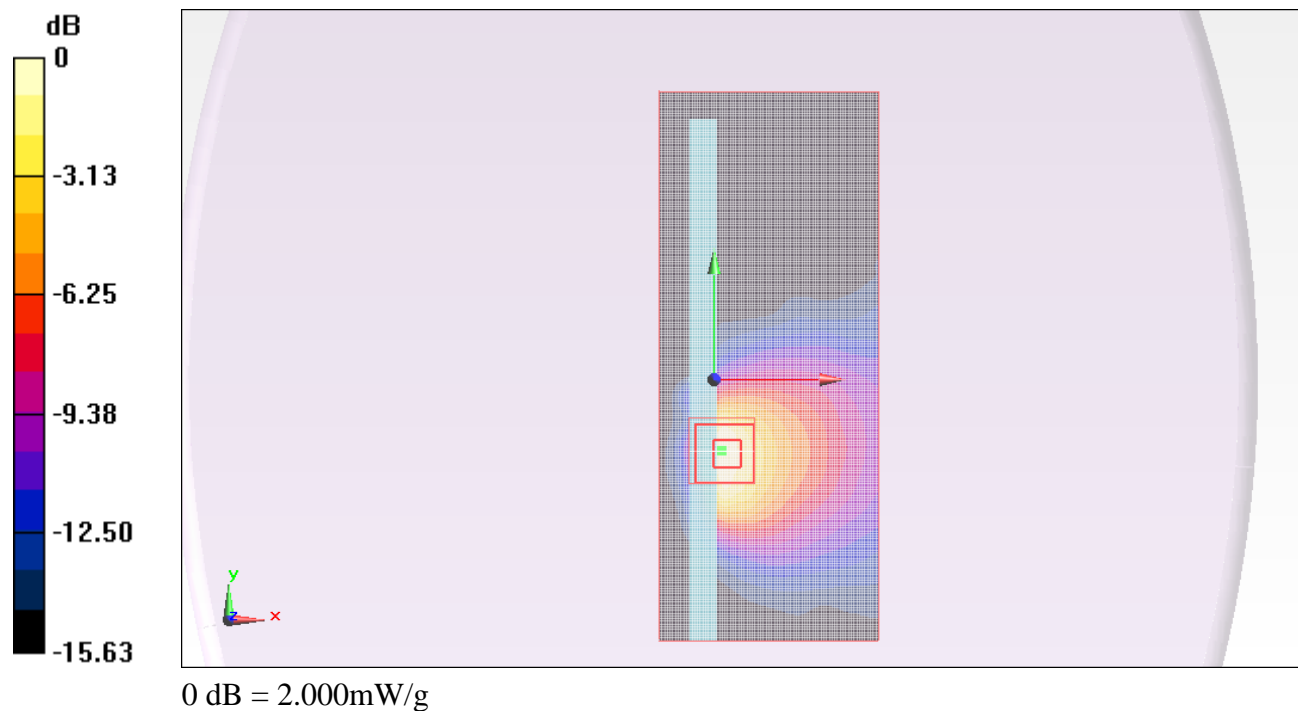
Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3686; ConvF(3.29, 3.29, 3.29); Calibrated: 1/24/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 7/14/2011
- Phantom: ELI v4.0(A); Type: QDOVA001BB; Serial: 1119
- Measurement SW: DASY52, Version 52.6 (2);SEMCAD X Version 14.4.5 (3634)

Bottom/Ch 120/Area Scan (81x201x1): Measurement grid: dx=10mm, dy=10mm
 Maximum value of SAR (interpolated) = 2.442 mW/g

Bottom/Ch 120/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
 Reference Value = 19.016 V/m; Power Drift = -0.09 dB
 Peak SAR (extrapolated) = 3.797 W/kg
SAR(1 g) = 1.19 mW/g; SAR(10 g) = 0.453 mW/g
 Maximum value of SAR (measured) = 1.997 mW/g

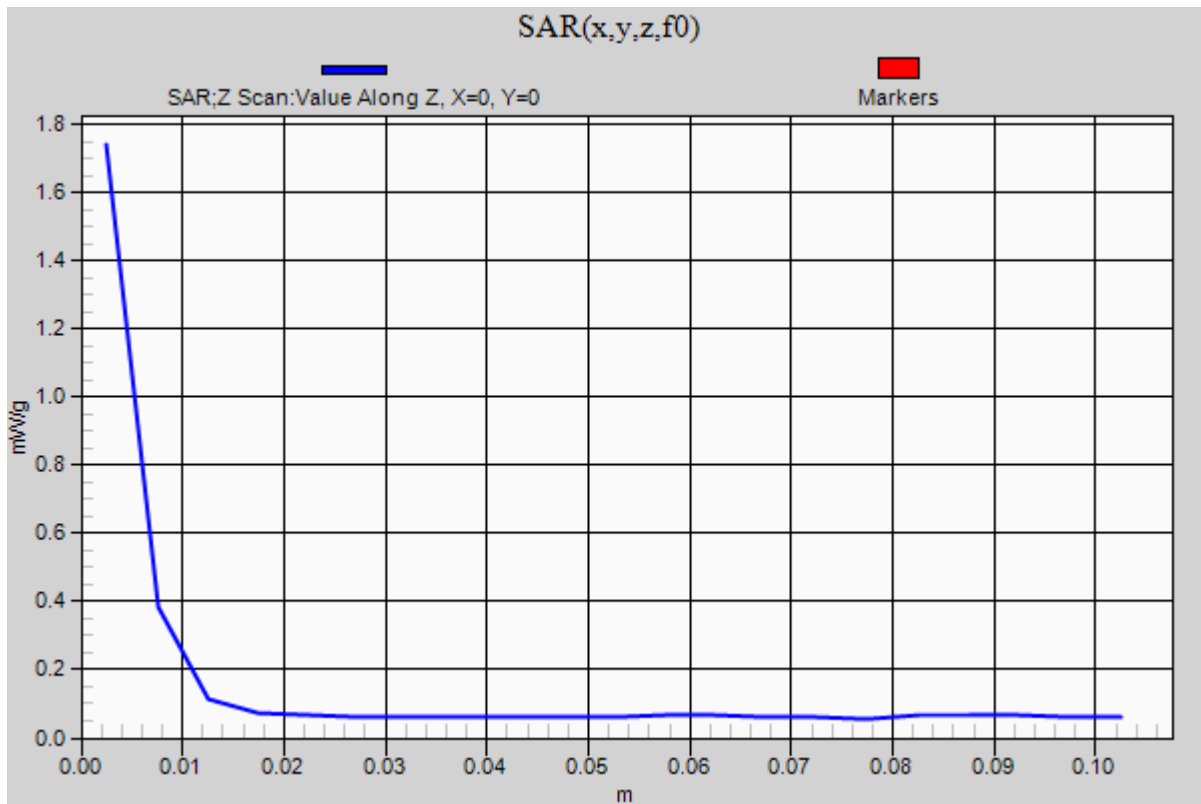


Test Laboratory: UL CCS SAR Lab A

WiFi 5GHz_Body

Communication System: WLAN 5GHz; Frequency: 5600 MHz; Duty Cycle: 1:1

Bottom/CH 120/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Maximum value of SAR (measured) = 1.741 mW/g



Test Laboratory: UL CCS SAR Lab D

5GHz_Body

Communication System: 802.11abgn; Frequency: 5700 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5700$ MHz; $\sigma = 6.16$ mho/m; $\epsilon_r = 47.6$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

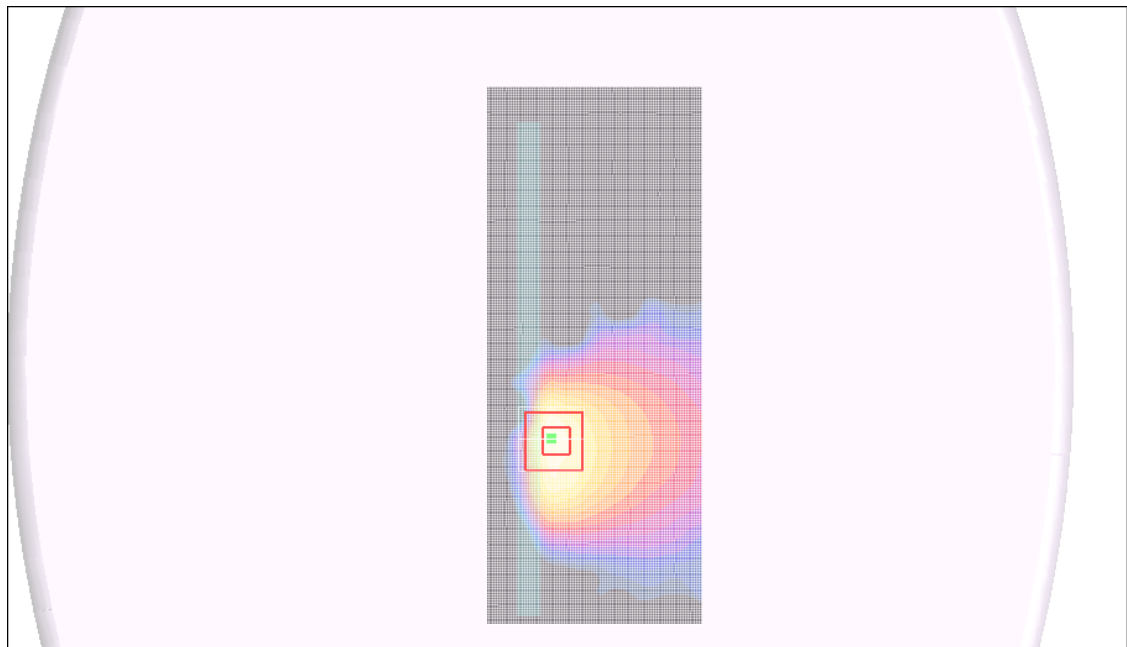
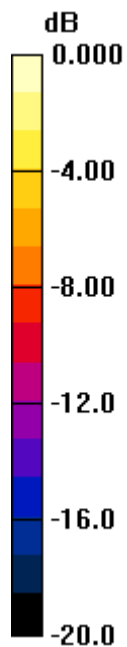
Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3749; ConvF(3.65, 3.65, 3.65); Calibrated: 12/13/2010
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1259; Calibrated: 5/3/2011
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BB; Serial: SN:1017
- Measurement SW: DASY4, V4.7 Build 80; Post processing SW: SEMCAD, V1.8 Build 186

Bottom_Ch140/Area Scan (81x201x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 2.42 mW/g

Bottom_Ch140/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 17.3 V/m; Power Drift = 0.146 dB
Peak SAR (extrapolated) = 4.13 W/kg
SAR(1 g) = 1.17 mW/g; SAR(10 g) = 0.389 mW/g
Maximum value of SAR (measured) = 2.13 mW/g



0 dB = 2.13mW/g

Test Laboratory: UL CCS SAR Lab A

WiFi 5GHz_Body

Communication System: WLAN 5GHz; Frequency: 5600 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 5600$ MHz; $\sigma = 5.784$ mho/m; $\epsilon_r = 47.969$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

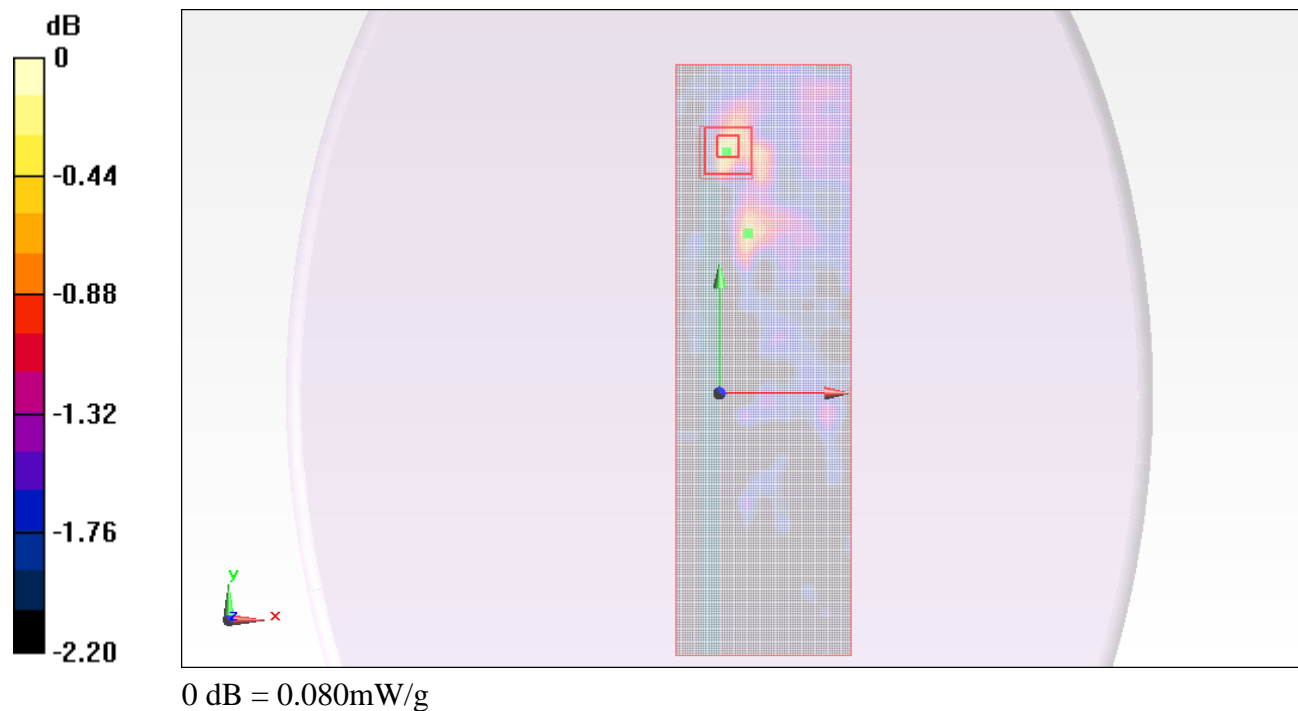
Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3686; ConvF(3.29, 3.29, 3.29); Calibrated: 1/24/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 7/14/2011
- Phantom: ELI v4.0(A); Type: QDOVA001BB; Serial: 1119
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

Right Edge/Ch 120/Area Scan (81x271x1): Measurement grid: dx=10mm, dy=10mm
 Maximum value of SAR (interpolated) = 0.077 mW/g

Right Edge/Ch 120/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
 Reference Value = 3.990 V/m; Power Drift = 0.10 dB
 Peak SAR (extrapolated) = 0.114 W/kg
SAR(1 g) = 0.068 mW/g; SAR(10 g) = 0.062 mW/g
 Maximum value of SAR (measured) = 0.080 mW/g



Test Laboratory: UL CCS SAR Lab D

5GHz_Body

DUT: Apple; Type: 17 inch; Serial: N/A

Communication System: 802.11abgn; Frequency: 5785 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5785 \text{ MHz}$; $\sigma = 6.1 \text{ mho/m}$; $\epsilon_r = 47.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

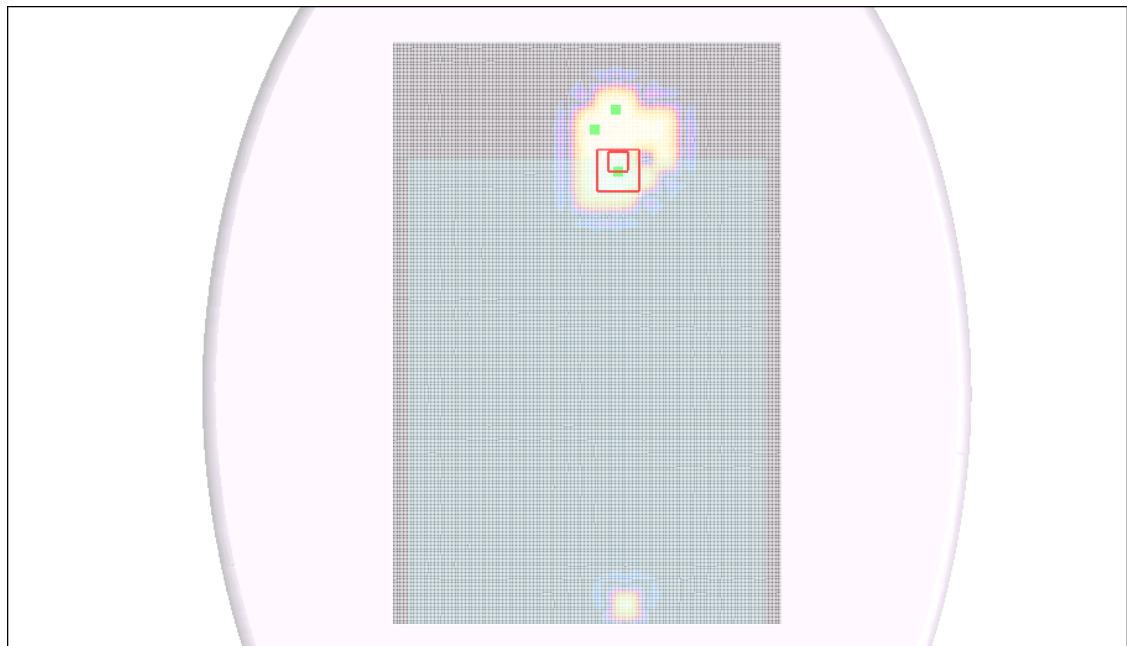
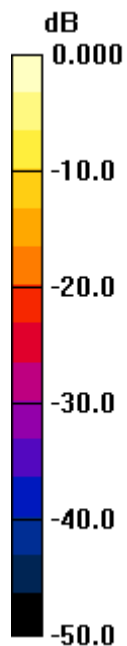
Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3749; ConvF(3.65, 3.65, 3.65); Calibrated: 12/13/2010
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1259; Calibrated: 5/3/2011
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BB; Serial: SN:1017
- Measurement SW: DASY4, V4.7 Build 80; Post processing SW: SEMCAD, V1.8 Build 186

Rear/Base_Ch157/Area Scan (201x301x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.145 mW/g

Rear/Base_Ch157/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 4.65 V/m; Power Drift = -0.140 dB
Peak SAR (extrapolated) = 0.643 W/kg
SAR(1 g) = 0.076 mW/g; SAR(10 g) = 0.026 mW/g
Maximum value of SAR (measured) = 0.120 mW/g



0 dB = 0.120mW/g

Test Laboratory: UL CCS SAR Lab D

5GHz_Body

DUT: Apple; Type: 17 inch; Serial: N/A

Communication System: 802.11abgn; Frequency: 5745 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5745 \text{ MHz}$; $\sigma = 6.05 \text{ mho/m}$; $\epsilon_r = 47.4$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 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: EX3DV4 - SN3749; ConvF(3.65, 3.65, 3.65); Calibrated: 12/13/2010
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1259; Calibrated: 5/3/2011
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BB; Serial: SN:1017
- Measurement SW: DASY4, V4.7 Build 80; Post processing SW: SEMCAD, V1.8 Build 186

Bottom_Ch149/Area Scan (81x201x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 2.10 mW/g

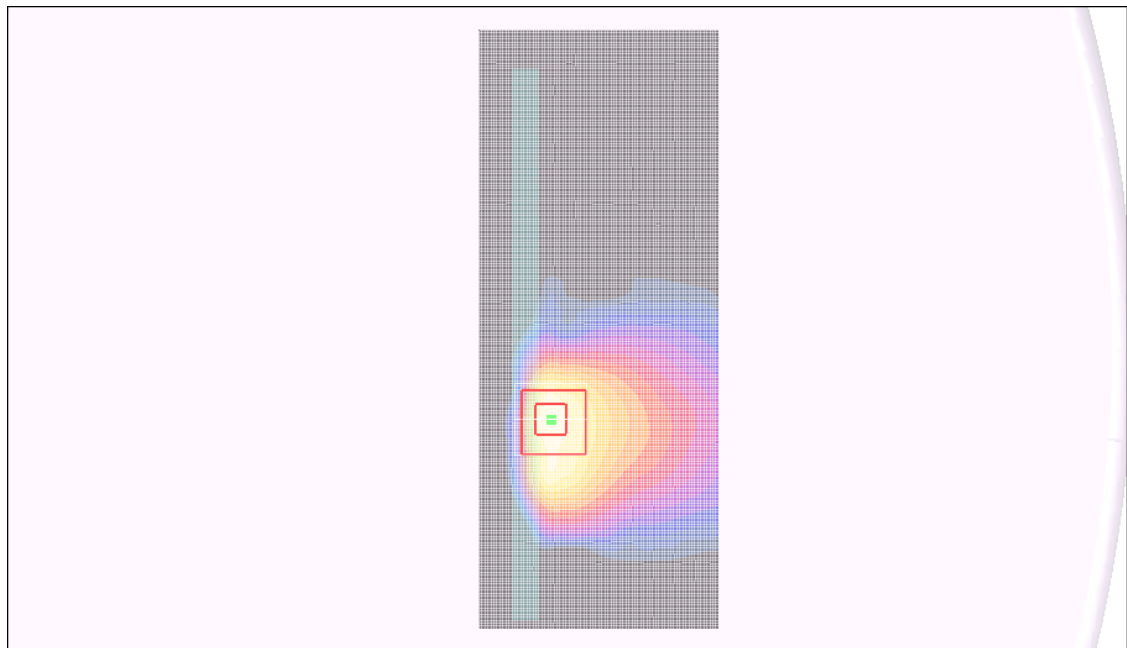
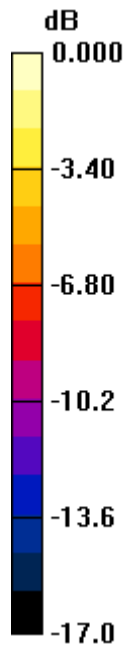
Bottom_Ch149/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 16.0 V/m; Power Drift = 0.018 dB

Peak SAR (extrapolated) = 3.72 W/kg

SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.383 mW/g

Maximum value of SAR (measured) = 1.89 mW/g



0 dB = 1.89mW/g

Test Laboratory: UL CCS SAR Lab D

5GHz_Body

DUT: Apple; Type: 17 inch; Serial: N/A

Communication System: 802.11abgn; Frequency: 5785 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5785 \text{ MHz}$; $\sigma = 6.1 \text{ mho/m}$; $\epsilon_r = 47.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

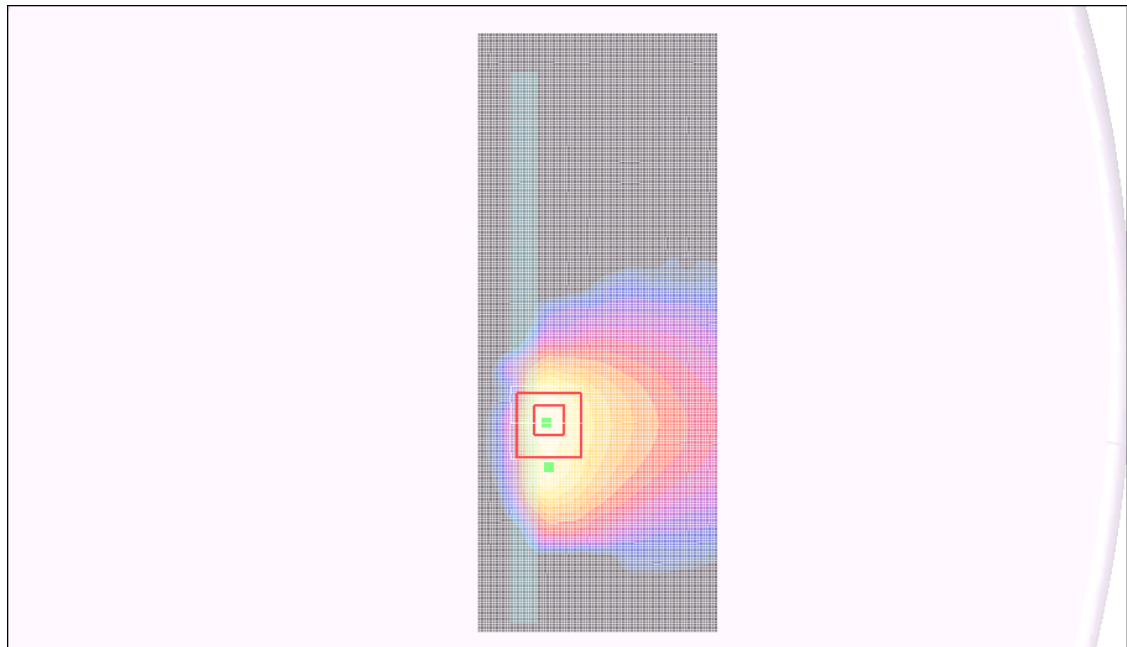
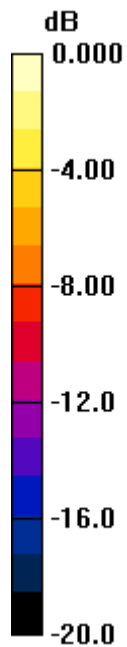
Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3749; ConvF(3.65, 3.65, 3.65); Calibrated: 12/13/2010
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1259; Calibrated: 5/3/2011
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BB; Serial: SN:1017
- Measurement SW: DASY4, V4.7 Build 80; Post processing SW: SEMCAD, V1.8 Build 186

Bottom_Ch157/Area Scan (81x201x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
Maximum value of SAR (interpolated) = 2.65 mW/g

Bottom_Ch157/Zoom Scan (7x7x9)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$
Reference Value = 19.4 V/m; Power Drift = -0.041 dB
Peak SAR (extrapolated) = 4.09 W/kg
SAR(1 g) = 1.19 mW/g; SAR(10 g) = 0.396 mW/g
Maximum value of SAR (measured) = 2.15 mW/g



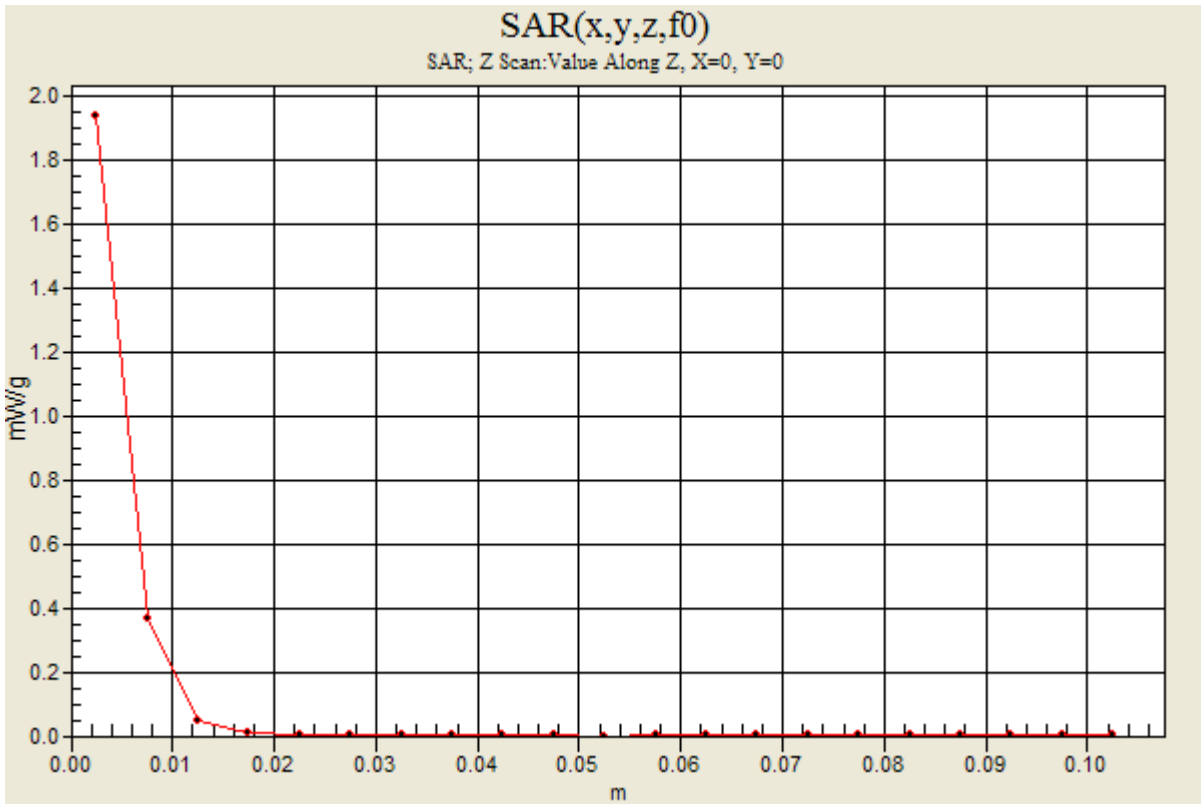
0 dB = 2.15mW/g

Test Laboratory: UL CCS SAR Lab D

5GHz_Body

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

Bottom_Ch157/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Maximum value of SAR (measured) = 1.94 mW/g



Test Laboratory: UL CCS SAR Lab D

5GHz_Body

DUT: Apple; Type: 17 inch; Serial: N/A

Communication System: 802.11abgn; Frequency: 5825 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5825$ MHz; $\sigma = 6.16$ mho/m; $\epsilon_r = 47.2$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

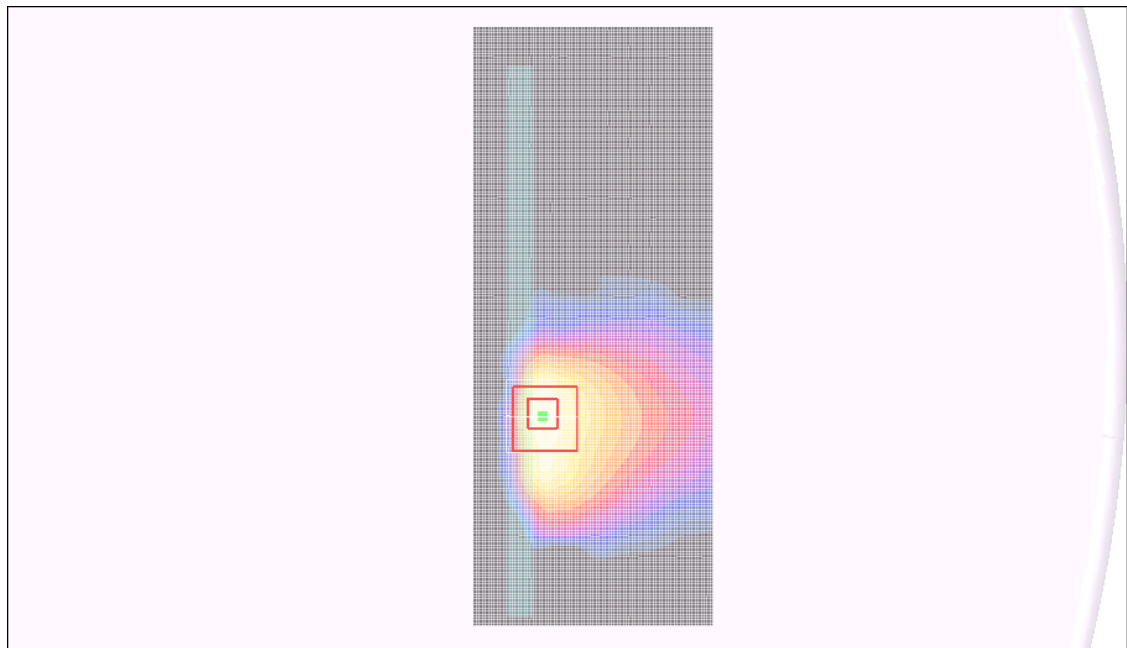
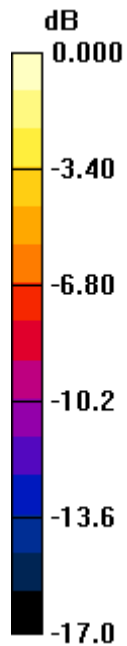
Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3749; ConvF(3.65, 3.65, 3.65); Calibrated: 12/13/2010
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1259; Calibrated: 5/3/2011
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BB; Serial: SN:1017
- Measurement SW: DASY4, V4.7 Build 80; Post processing SW: SEMCAD, V1.8 Build 186

Bottom_Ch165/Area Scan (81x201x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 2.17 mW/g

Bottom_Ch165/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 18.6 V/m; Power Drift = -0.059 dB
Peak SAR (extrapolated) = 3.50 W/kg
SAR(1 g) = 1.03 mW/g; SAR(10 g) = 0.360 mW/g
Maximum value of SAR (measured) = 1.77 mW/g



Test Laboratory: UL CCS SAR Lab D

5GHz_Body

DUT: Apple; Type: 17 inch; Serial: N/A

Communication System: 802.11abgn; Frequency: 5785 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5785$ MHz; $\sigma = 6.1$ mho/m; $\epsilon_r = 47.3$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

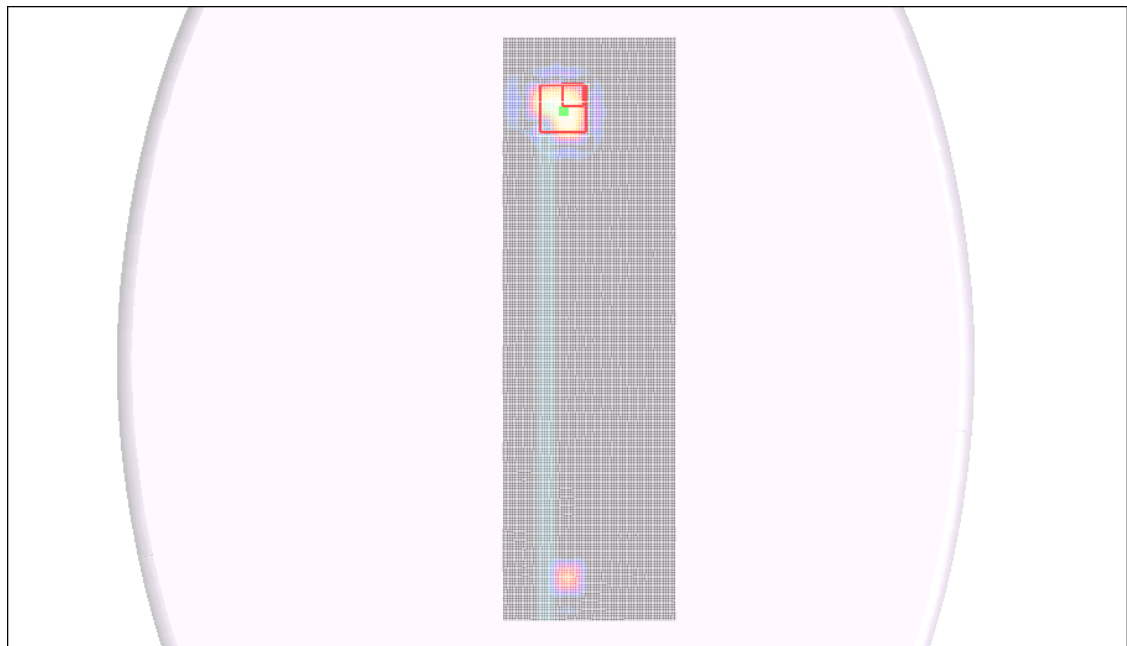
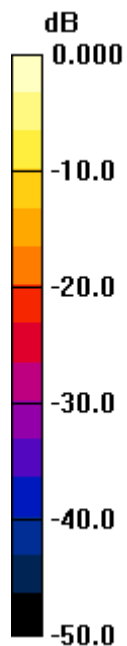
Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3749; ConvF(3.65, 3.65, 3.65); Calibrated: 12/13/2010
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1259; Calibrated: 5/3/2011
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BB; Serial: SN:1017
- Measurement SW: DASY4, V4.7 Build 80; Post processing SW: SEMCAD, V1.8 Build 186

Right Edge_Ch157/Area Scan (81x271x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.058 mW/g

Right Edge_Ch157/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 2.19 V/m; Power Drift = 0.086 dB
Peak SAR (extrapolated) = 0.186 W/kg
SAR(1 g) = 0.019 mW/g; SAR(10 g) = 0.00479 mW/g
Maximum value of SAR (measured) = 0.027 mW/g



0 dB = 0.027mW/g