

Test Laboratory: UL CCS SAR Lab B

Head 5.2 GHz

Communication System: WLAN_5GHz; Frequency: 5200 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 5200$ MHz; $\sigma = 4.791$ mho/m; $\epsilon_r = 36.602$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

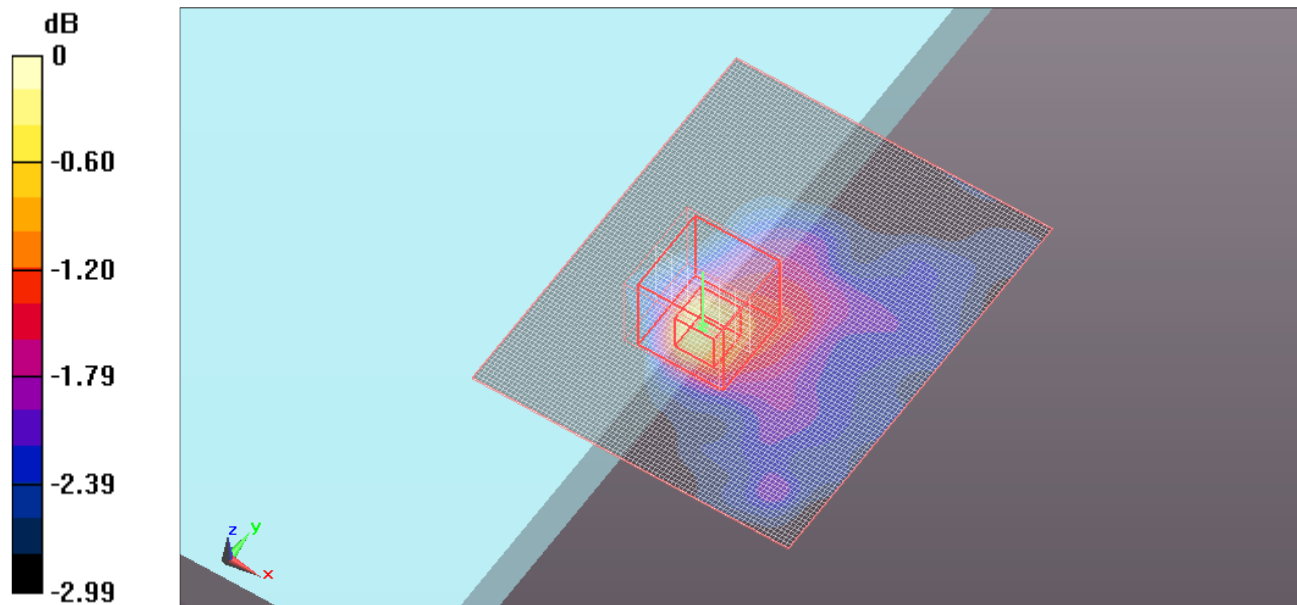
Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 deg. C

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 - SN3773; ConvF(4.39, 4.39, 4.39); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1118
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

802.11a_Ant 0/Ch 40/Area Scan (81x101x1): Measurement grid: dx=10mm, dy=10mm
 Maximum value of SAR (interpolated) = 0.146 mW/g

802.11a_Ant 0/Ch 40/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
 Reference Value = 5.623 V/m; Power Drift = -0.11 dB
 Peak SAR (extrapolated) = 0.272 W/kg
SAR(1 g) = 0.126 mW/g; SAR(10 g) = 0.101 mW/g
 Maximum value of SAR (measured) = 0.157 mW/g



0 dB = 0.160mW/g

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Medium parameters used: $f = 5200$ MHz; $\sigma = 4.791$ mho/m; $\epsilon_r = 36.602$; $\rho = 1000$ 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 - SN3773; ConvF(4.39, 4.39, 4.39); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1118
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

802.11a Ant 1/Ch 40/Area Scan (81x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.124 mW/g

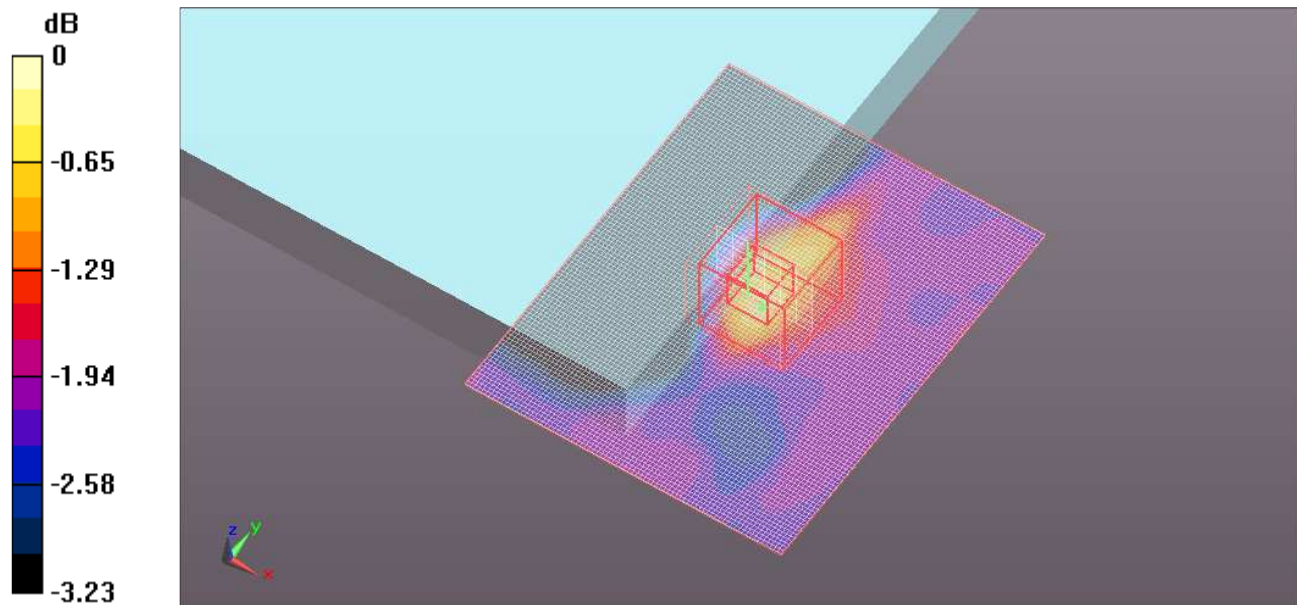
802.11a Ant 1/Ch 40/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 5.285 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.306 W/kg

SAR(1 g) = 0.117 mW/g; SAR(10 g) = 0.099 mW/g

Maximum value of SAR (measured) = 0.134 mW/g



0 dB = 0.130mW/g

Test Laboratory: UL CCS SAR Lab B

Head 5.2 GHz

Communication System: WLAN_5GHz; Frequency: 5180 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 5180$ MHz; $\sigma = 4.759$ mho/m; $\epsilon_r = 36.617$; $\rho = 1000$ 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 - SN3773; ConvF(4.39, 4.39, 4.39); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1118
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

802.11a_Ant 2/Ch 36/Area Scan (81x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.162 mW/g

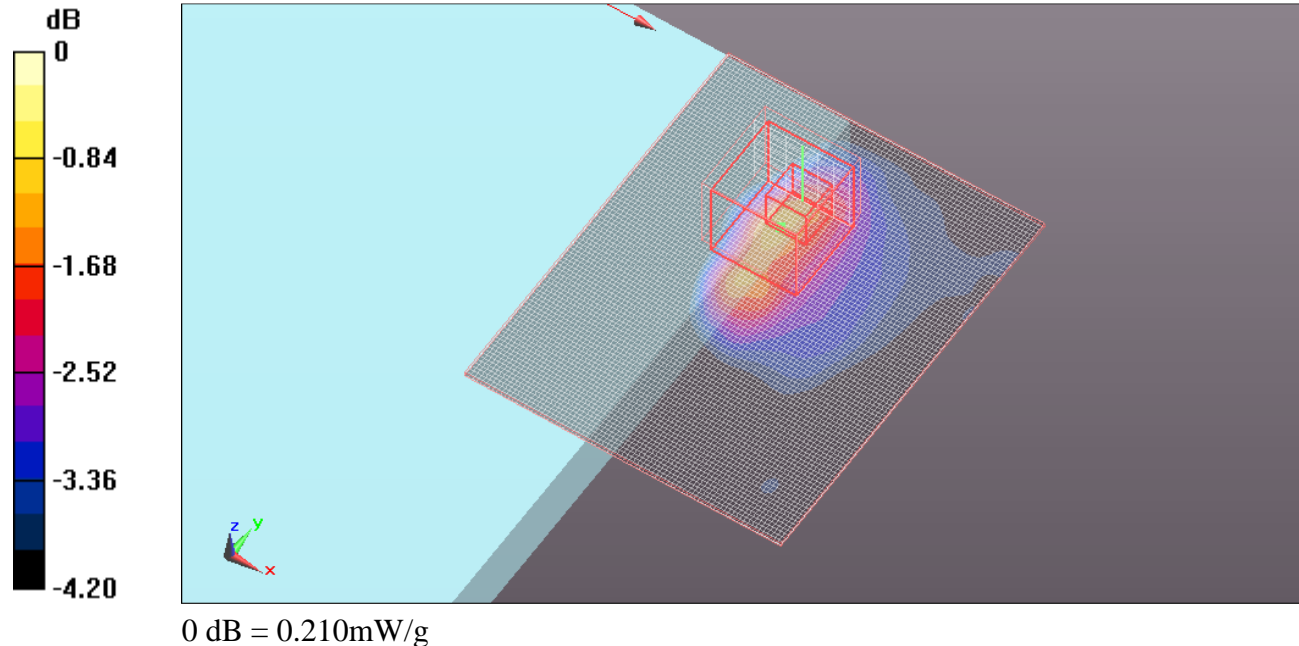
802.11a_Ant 2/Ch 36/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 6.010 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.539 W/kg

SAR(1 g) = 0.154 mW/g; SAR(10 g) = 0.111 mW/g

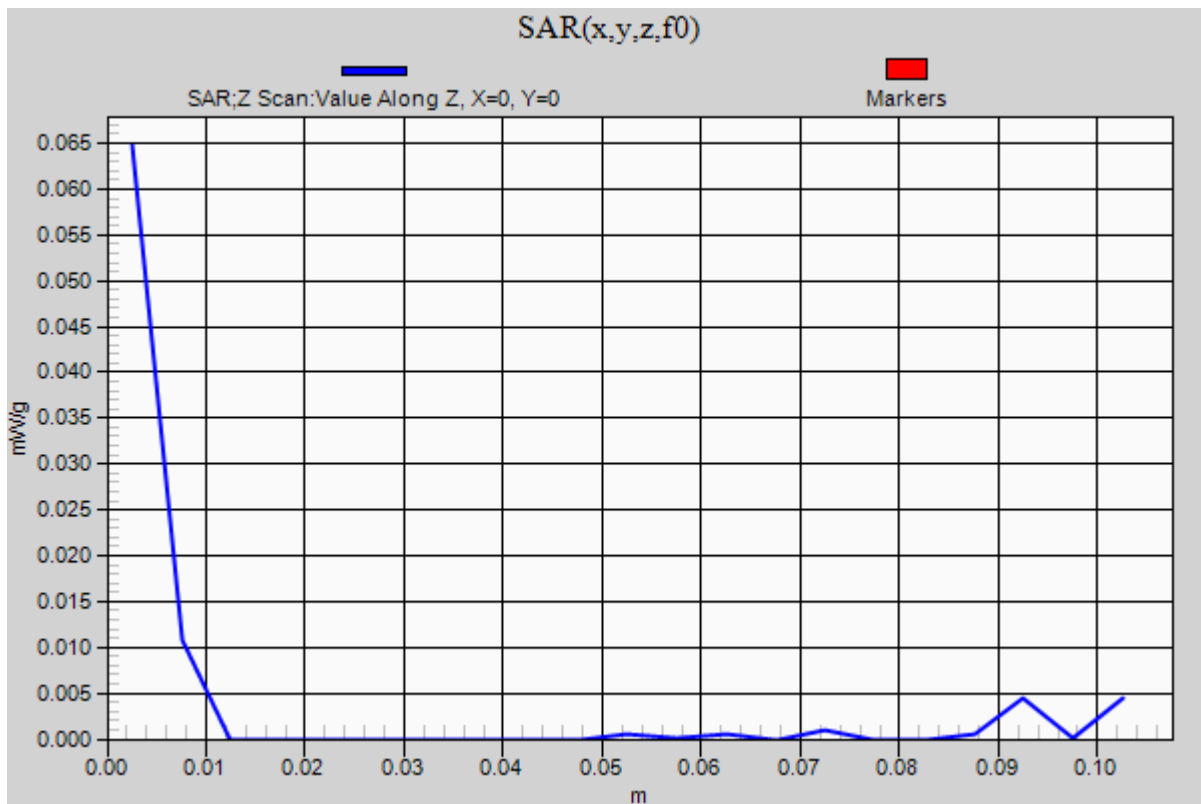
Maximum value of SAR (measured) = 0.209 mW/g



Test Laboratory: UL CCS SAR Lab B

Head 5.2 GHz

Communication System: WLAN_5GHz; Frequency: 5180 MHz; Duty Cycle: 1:1

802.11a_Ant 2/Ch 36/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Maximum value of SAR (measured) = 0.065 mW/g

Test Laboratory: UL CCS SAR Lab B

Head 5.2 GHz

Communication System: WLAN_5GHz; Frequency: 5190 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 5190$ MHz; $\sigma = 4.723$ mho/m; $\epsilon_r = 37.184$; $\rho = 1000$ 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 - SN3773; ConvF(4.39, 4.39, 4.39); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1118
- Measurement SW: DASY52, Version 52.6 (2);SEMCAD X Version 14.4.5 (3634)

802.11n HT40 Ant 0/Ch 38/Area Scan (81x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.124 mW/g

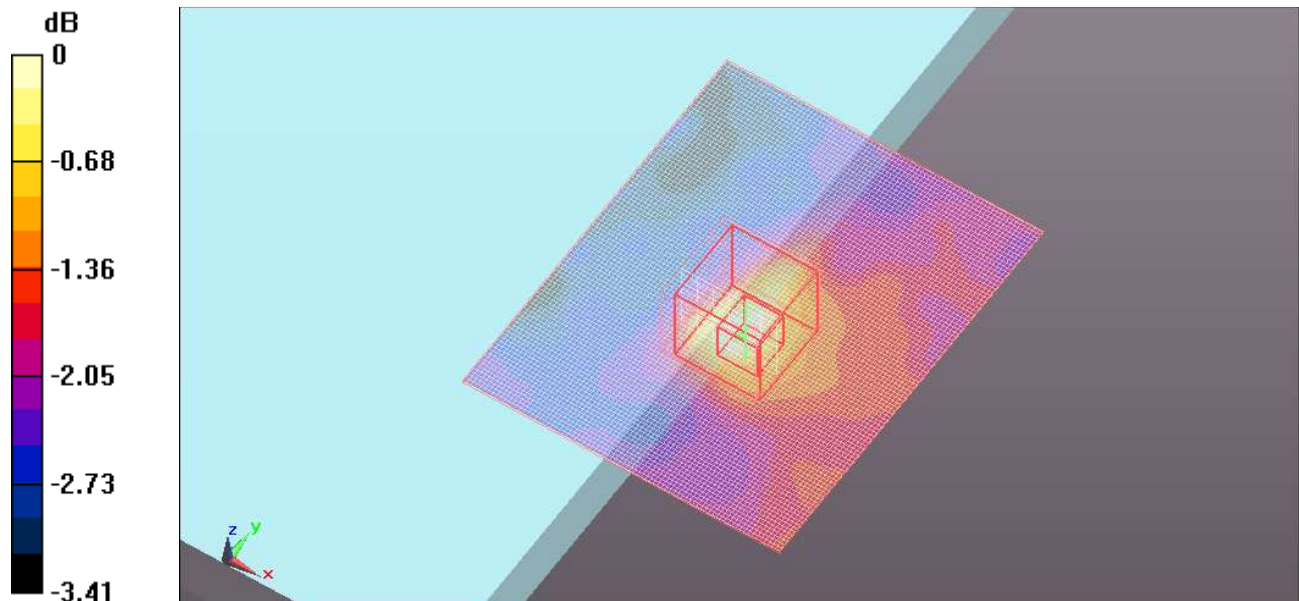
802.11n HT40 Ant 0/Ch 38/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 5.197 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.191 W/kg

SAR(1 g) = 0.101 mW/g; SAR(10 g) = 0.089 mW/g

Maximum value of SAR (measured) = 0.116 mW/g



0 dB = 0.120mW/g

Test Laboratory: UL CCS SAR Lab B

Head 5.2 GHz

Communication System: WLAN_5GHz; Frequency: 5230 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 5230$ MHz; $\sigma = 4.762$ mho/m; $\epsilon_r = 37.147$; $\rho = 1000$ 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 - SN3773; ConvF(4.39, 4.39, 4.39); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1118
- Measurement SW: DASY52, Version 52.6 (2);SEMCAD X Version 14.4.5 (3634)

802.11n HT40 Ant 1/Ch 46/Area Scan (81x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.105 mW/g

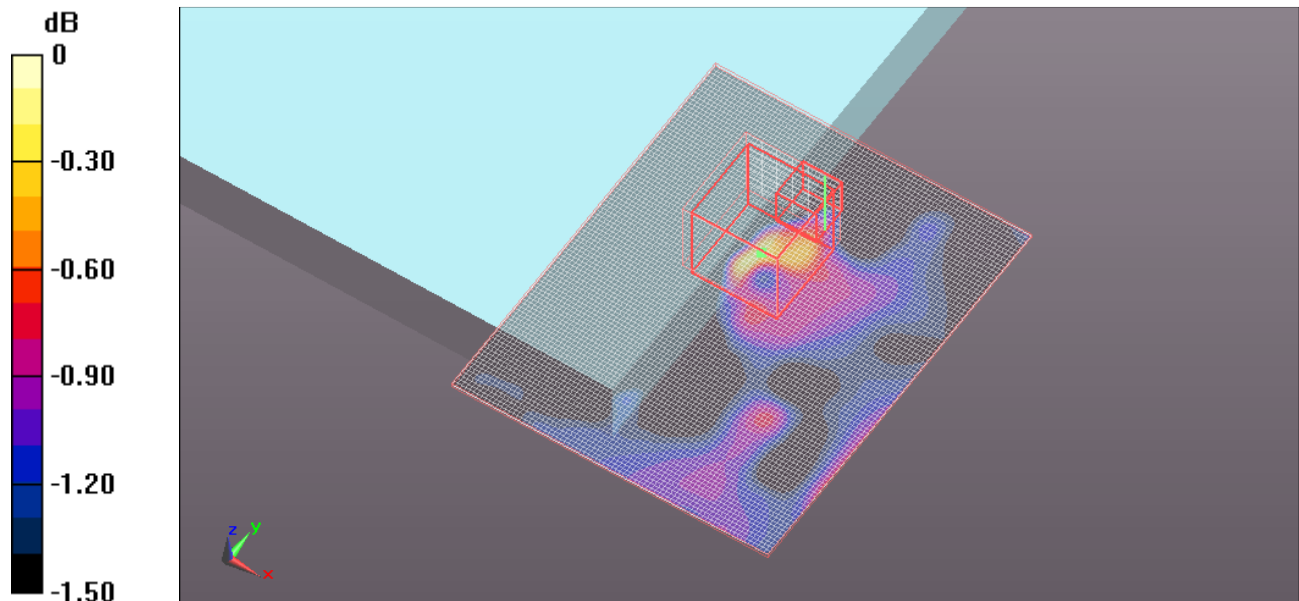
802.11n HT40 Ant 1/Ch 46/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 4.823 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.172 W/kg

SAR(1 g) = 0.092 mW/g; SAR(10 g) = 0.077 mW/g

Maximum value of SAR (measured) = 0.109 mW/g



0 dB = 0.110mW/g

Test Laboratory: UL CCS SAR Lab B

Head 5.2 GHz

Communication System: WLAN_5GHz; Frequency: 5190 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5190$ MHz; $\sigma = 4.723$ mho/m; $\epsilon_r = 37.184$; $\rho = 1000$ 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 - SN3773; ConvF(4.39, 4.39, 4.39); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1118
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

802.11n HT40_Ant 2/Ch 38/Area Scan (81x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.174 mW/g

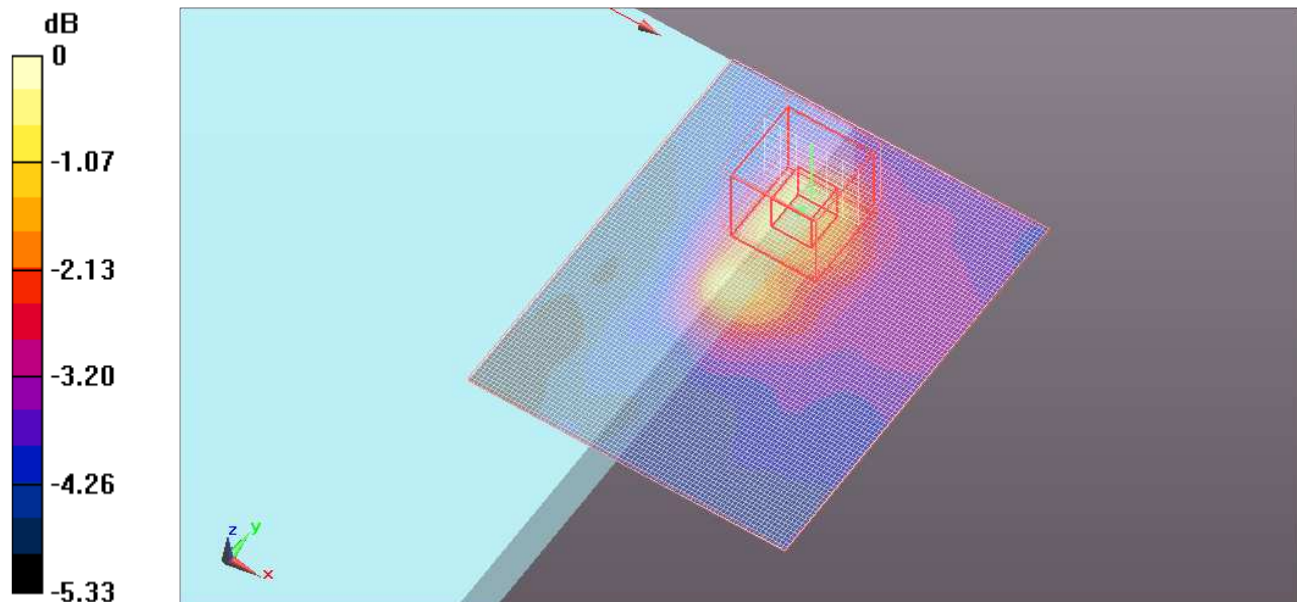
802.11n HT40_Ant 2/Ch 38/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 6.040 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.455 W/kg

SAR(1 g) = 0.148 mW/g; SAR(10 g) = 0.100 mW/g

Maximum value of SAR (measured) = 0.202 mW/g



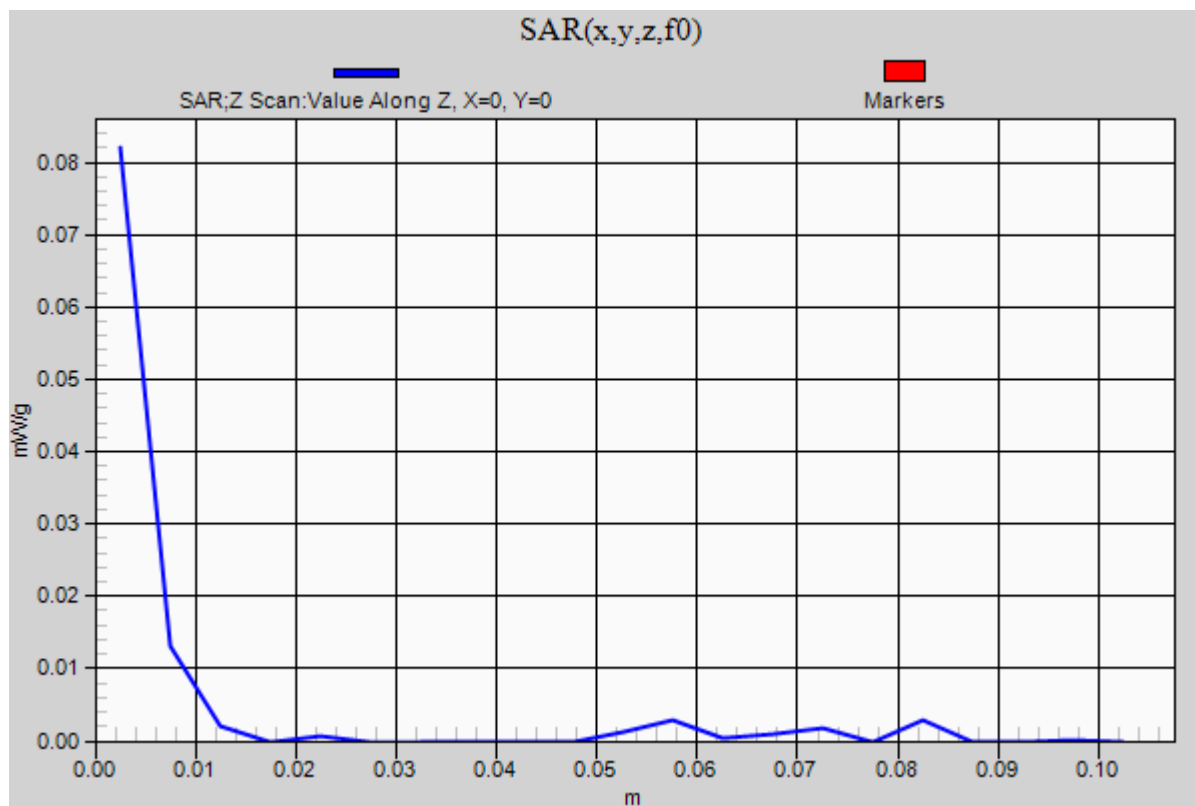
0 dB = 0.200mW/g

Test Laboratory: UL CCS SAR Lab B

Head 5.2 GHz

Communication System: WLAN_5GHz; Frequency: 5190 MHz; Duty Cycle: 1:1

802.11n HT40_Ant 2/Ch 38/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Maximum value of SAR (measured) = 0.082 mW/g



Test Laboratory: UL CCS SAR Lab B

Head 5.8 GHz

Communication System: WLAN_5GHz; Frequency: 5785 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5785$ MHz; $\sigma = 5.44$ mho/m; $\epsilon_r = 35.209$; $\rho = 1000$ 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 - SN3773; ConvF(3.98, 3.98, 3.98); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1118
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

802.11a_Ant 0/Ch 157/Area Scan (81x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.213 mW/g

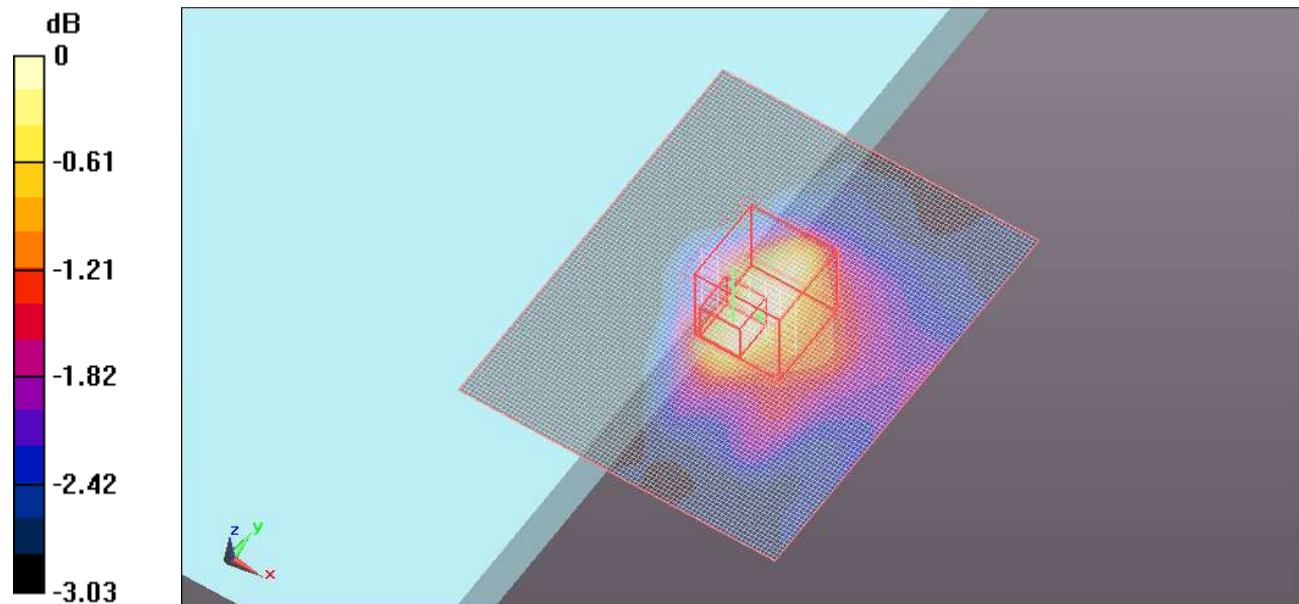
802.11a_Ant 0/Ch 157/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 6.396 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.781 W/kg

SAR(1 g) = 0.181 mW/g; SAR(10 g) = 0.149 mW/g

Maximum value of SAR (measured) = 0.209 mW/g

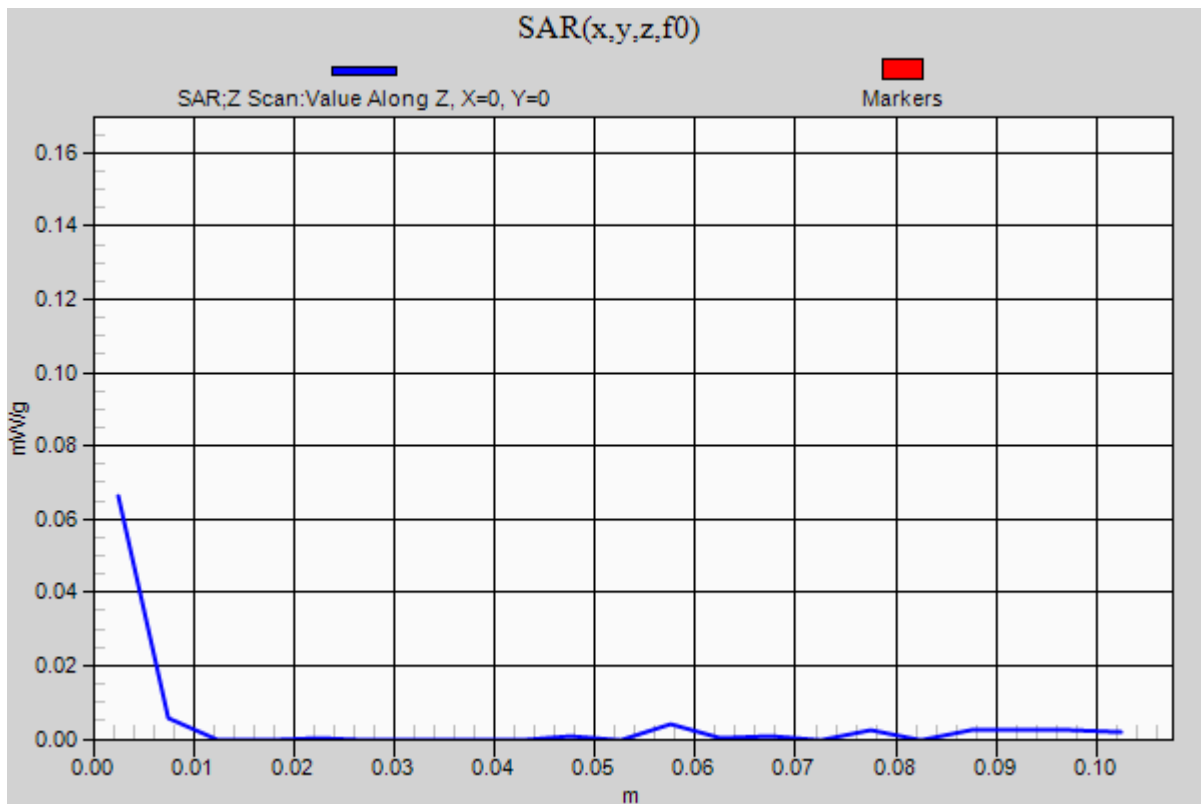


0 dB = 0.210mW/g

Test Laboratory: UL CCS SAR Lab B

Head 5.8 GHz

Communication System: WLAN_5GHz; Frequency: 5785 MHz; Duty Cycle: 1:1

802.11a_Ant 0/Ch 157/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Maximum value of SAR (measured) = 0.067 mW/g

Test Laboratory: UL CCS SAR Lab B

Head 5.8 GHz

Communication System: WLAN_5GHz; Frequency: 5785 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5785$ MHz; $\sigma = 5.44$ mho/m; $\epsilon_r = 35.209$; $\rho = 1000$ 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 - SN3773; ConvF(3.98, 3.98, 3.98); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1118
- Measurement SW: DASY52, Version 52.6 (2);SEMCAD X Version 14.4.5 (3634)

802.11a Ant 1/Ch 157/Area Scan (81x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.232 mW/g

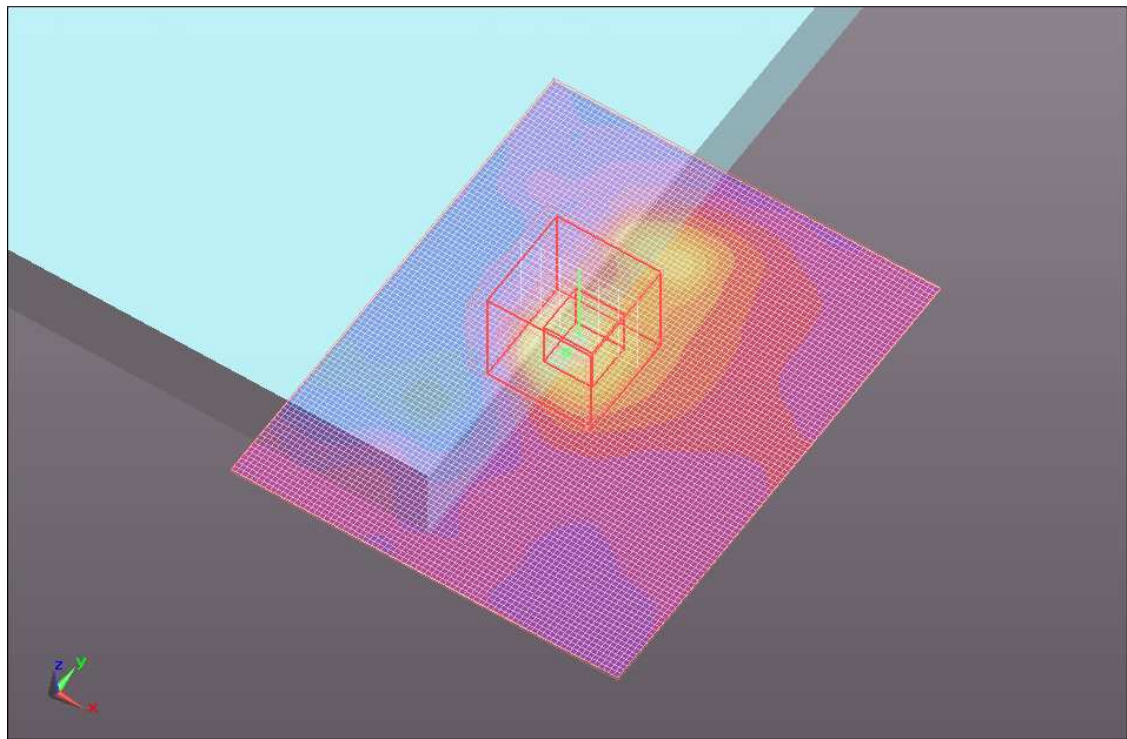
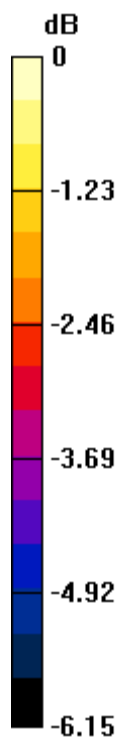
802.11a Ant 1/Ch 157/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 6.225 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.541 W/kg

SAR(1 g) = 0.180 mW/g; SAR(10 g) = 0.126 mW/g

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



0 dB = 0.250mW/g

Test Laboratory: UL CCS SAR Lab B

Head 5.8 GHz

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 Medium parameters used: $f = 5785$ MHz; $\sigma = 5.44$ mho/m; $\epsilon_r = 35.209$; $\rho = 1000$ 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 - SN3773; ConvF(3.98, 3.98, 3.98); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1118
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

802.11a_Ant 2/Ch 157/Area Scan (81x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.191 mW/g

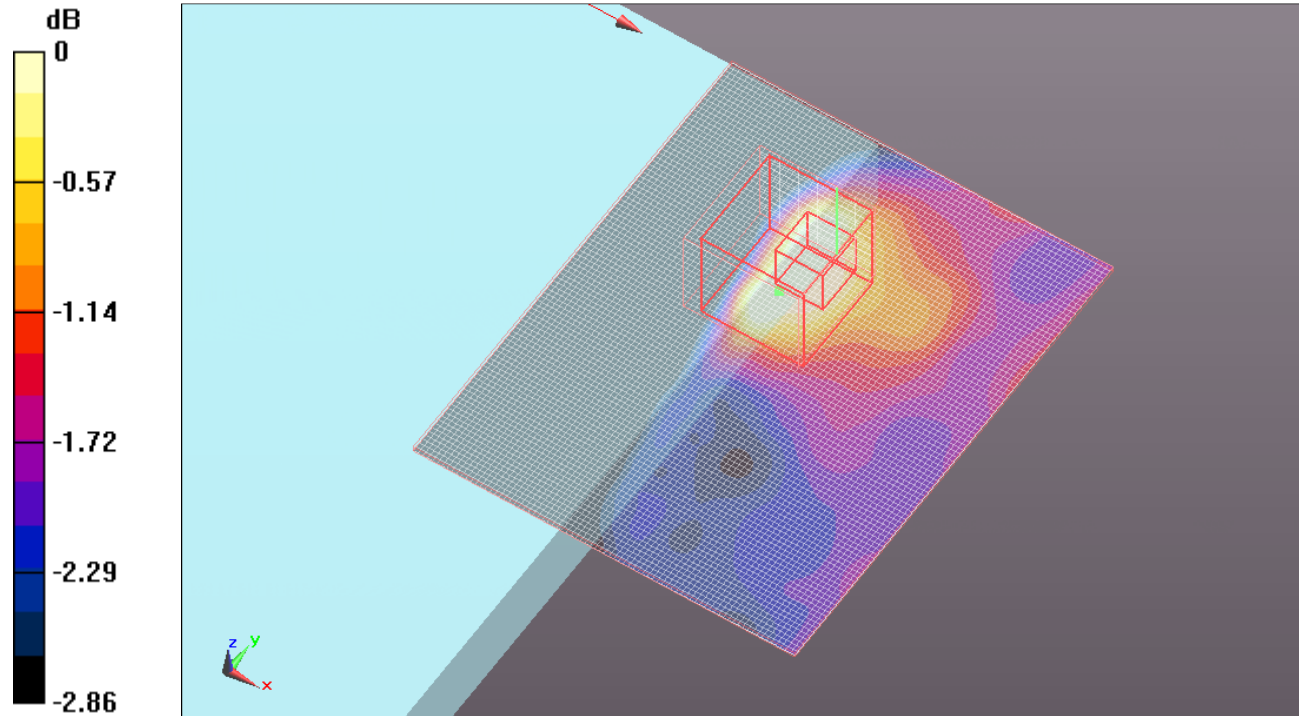
802.11a_Ant 2/Ch 157/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 5.654 V/m; Power Drift = -0.20 dB

Peak SAR (extrapolated) = 0.286 W/kg

SAR(1 g) = 0.143 mW/g; SAR(10 g) = 0.118 mW/g

Maximum value of SAR (measured) = 0.171 mW/g



0 dB = 0.170mW/g