

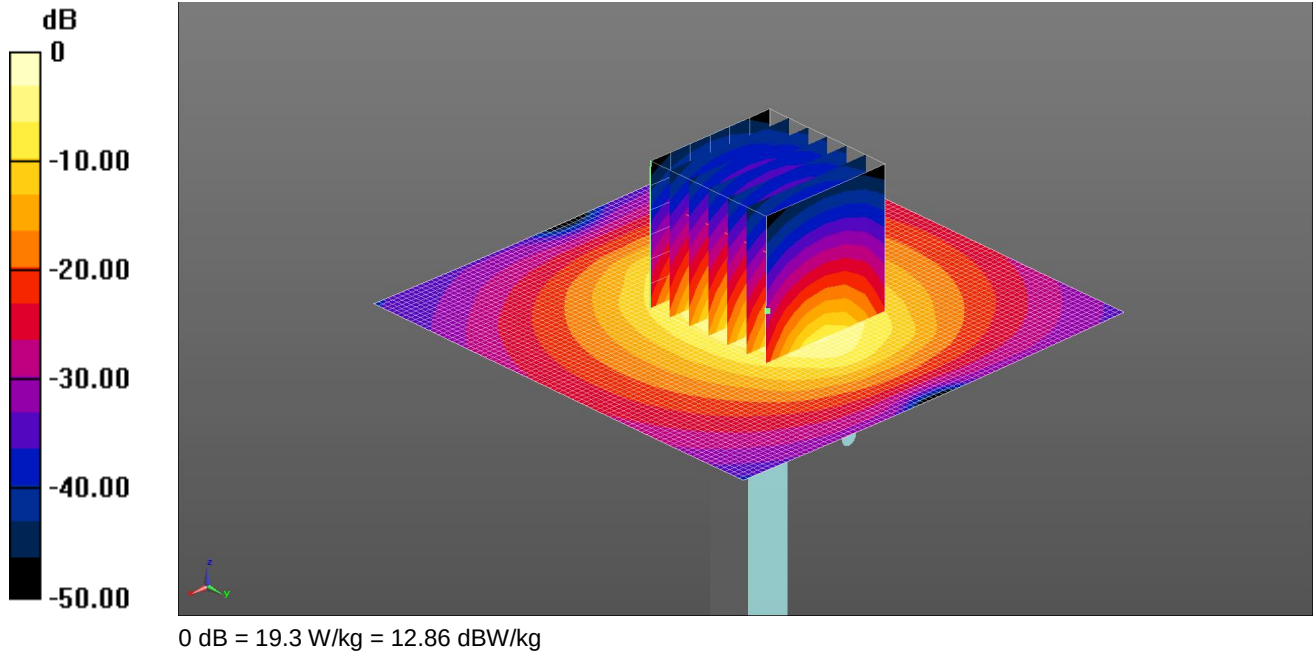
12.2. System Check Plots

This appendix contains the following system validation distribution scans.

Scan Reference Number	Title
SYS/001	System Performance Check 2450MHz Body 22 08 16
SYS/002	System Performance Check 2450MHz Body 07 09 16
SYS/003	System Performance Check 5250 MHz Body 24 08 16
SYS/004	System Performance Check 5250 MHz Body 05 09 16
SYS/005	System Performance Check 5250 MHz Body 07 09 16
SYS/006	System Performance Check 5600 MHz Body 22 08 16
SYS/007	System Performance Check 5600 MHz Body 05 09 16
SYS/008	System Performance Check 5600 MHz Body 07 09 16
SYS/009	System Performance Check 5600 MHz Body 12 09 16
SYS/010	System Performance Check 5600 MHz Body 23 09 16
SYS/011	System Performance Check 5750 MHz Body 30 08 16
SYS/012	System Performance Check 5750 MHz Body 05 09 16
SYS/013	System Performance Check 5750 MHz Body 07 09 16

SYS/001: System Performance Check 2450MHz Body 22 08 16
Date: 22/08/2016

DUT: Dipole 2450 MHz; SN725; Type: D2440V2; Serial: D2440V2 - SN:701



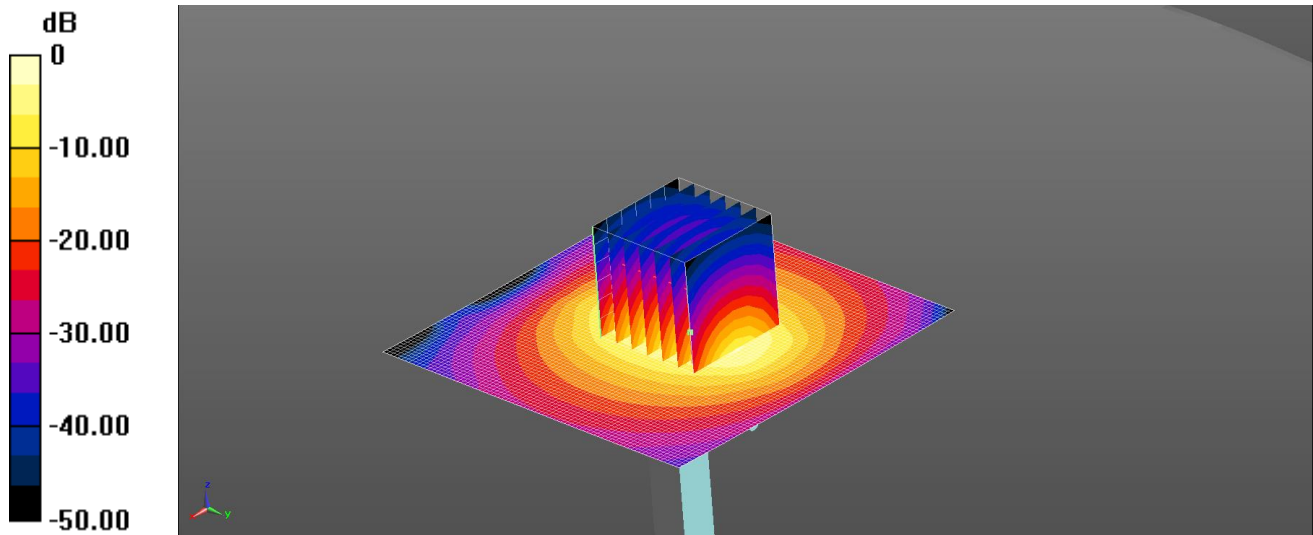
Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1
Medium: 2450 MHz MSL Medium parameters used: $f = 2450$ MHz; $\sigma = 2.03$ S/m; $\epsilon_r = 51.304$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
DASY Configuration:
- Probe: EX3DV4 - SN3995; ConvF(7.54, 7.54, 7.54); Calibrated: 26/04/2016;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1435; Calibrated: 30/05/2016
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/d=10mm, Pin=250mW 2 2 2 /Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 19.3 W/kg

Configuration/d=10mm, Pin=250mW 2 2 2 /Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 82.17 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 26.9 W/kg
SAR(1 g) = 12.7 W/kg; SAR(10 g) = 5.75 W/kg
Maximum value of SAR (measured) = 19.7 W/kg

SYS/002: System Performance Check 2450MHz Body 07 09 16
Date: 07/09/2016

DUT: Dipole 2450 MHz; SN725; Type: D2450V2; Serial: D2450V2 - SN:725



0 dB = 20.0 W/kg = 13.01 dBW/kg

Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: 2450 MHz MSL Medium parameters used: $f = 2450$ MHz; $\sigma = 2.028$ S/m; $\epsilon_r = 50.273$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3995; ConvF(7.54, 7.54, 7.54); Calibrated: 26/04/2016;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1435; Calibrated: 30/05/2016
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/dnu d=10mm, Pin=250mW 2/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 20.0 W/kg

Configuration/dnu d=10mm, Pin=250mW 2/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 82.31 V/m; Power Drift = 0.04 dB

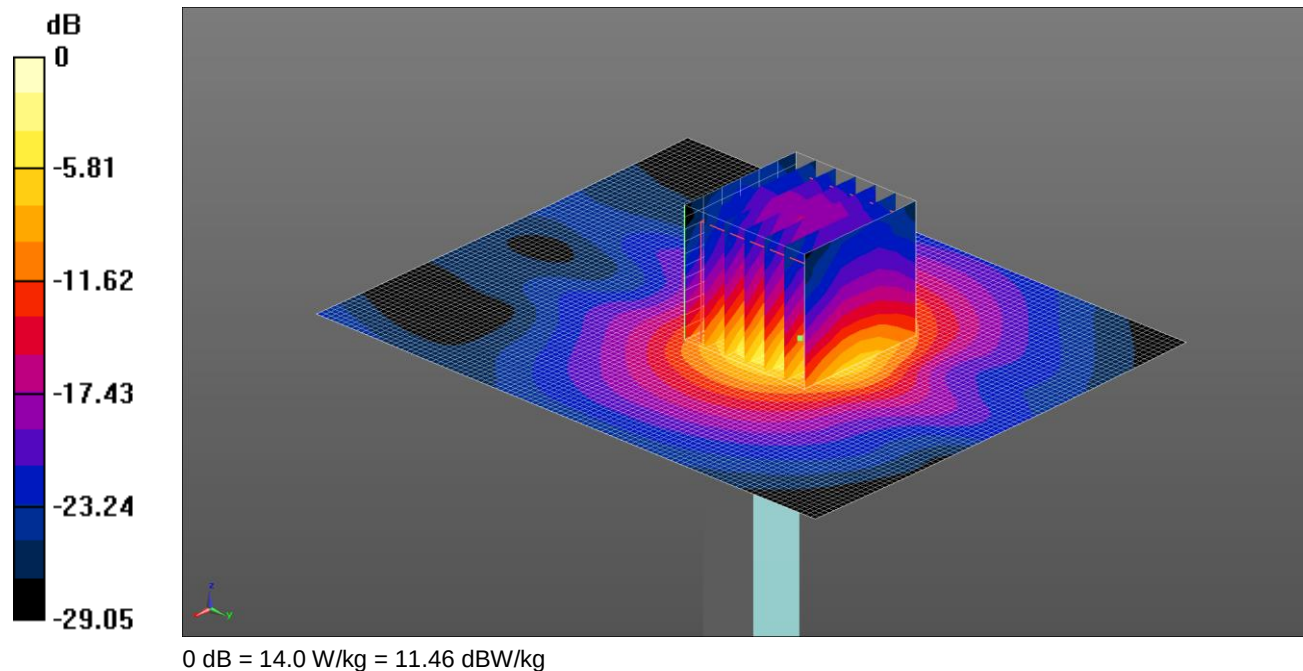
Peak SAR (extrapolated) = 27.4 W/kg

SAR(1 g) = 13.2 W/kg; SAR(10 g) = 6.08 W/kg

Maximum value of SAR (measured) = 20.3 W/kg

SYS/003: System Performance Check 5250 MHz Body 24 08 16
Date: 24/08/2016

DUT: 5GHz Dipole SN:1016; Type: D5GHzV2; Serial: SN 1016



Communication System: UID 0, CW (0); Frequency: 5250 MHz; Duty Cycle: 1:1
Medium: 5250/5600/5750 MHz MSL Medium parameters used: $f = 5250$ MHz; $\sigma = 5.374$ S/m; $\epsilon_r = 47.35$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
DASY Configuration:
- Probe: EX3DV4 - SN3814; ConvF(4.24, 4.24, 4.24); Calibrated: 06/10/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 28/09/2015
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/DNU d=10mm, Pin=100mW/Area Scan (81x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 13.9 W/kg

Configuration/DNU d=10mm, Pin=100mW/Zoom Scan (7x7x12) 2 (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 26.56 V/m; Power Drift = -0.15 dB

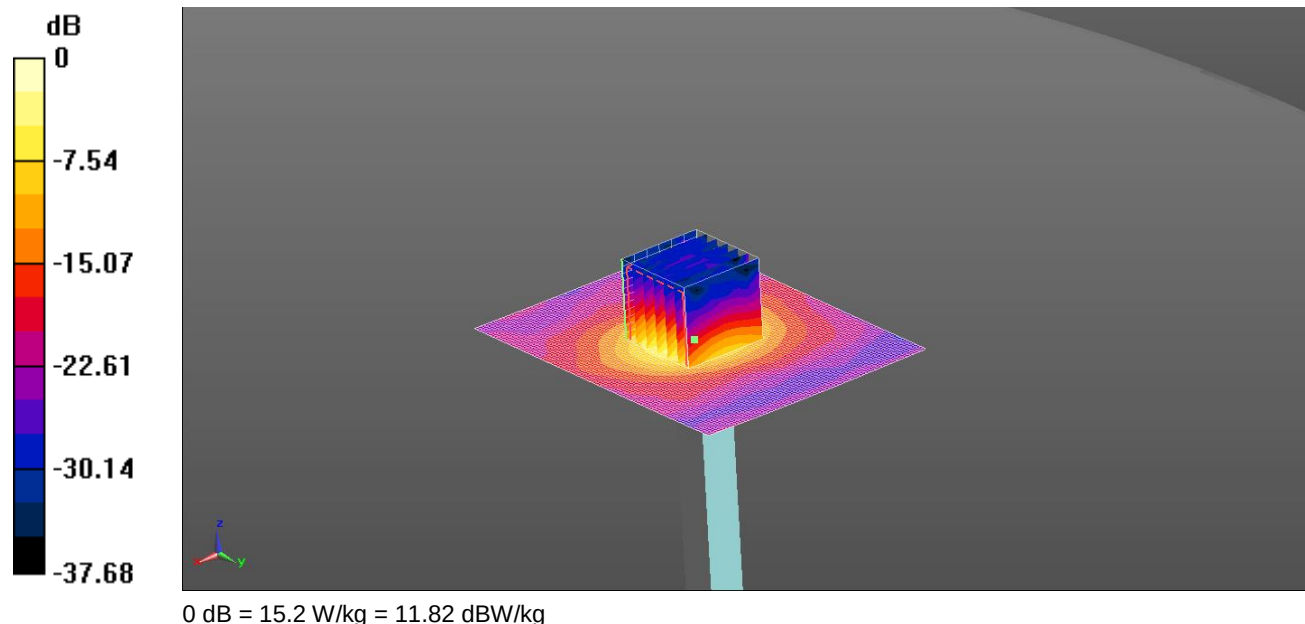
Peak SAR (extrapolated) = 23.3 W/kg

SAR(1 g) = 7.13 W/kg; SAR(10 g) = 2.13 W/kg

Maximum value of SAR (measured) = 14.0 W/kg

SYS/004: System Performance Check 5250 MHz Body 05 09 16
Date: 05/09/2016

DUT: 5GHz Dipole SN:1016; Type: D5GHzV2; Serial: SN 1016



Communication System: UID 0, CW (0); Frequency: 5250 MHz; Duty Cycle: 1:1

Medium: 5250/5600/5750 MHz MSL Medium parameters used: $f = 5250$ MHz; $\sigma = 5.27$ S/m; $\epsilon_r = 50.08$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3994; ConvF(4.38, 4.38, 4.38); Calibrated: 21/03/2016;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1438; Calibrated: 25/04/2016
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/d=10mm, Pin=100mW/Area Scan (71x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 15.5 W/kg

Configuration/d=10mm, Pin=100mW/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 40.97 V/m; Power Drift = -0.04 dB

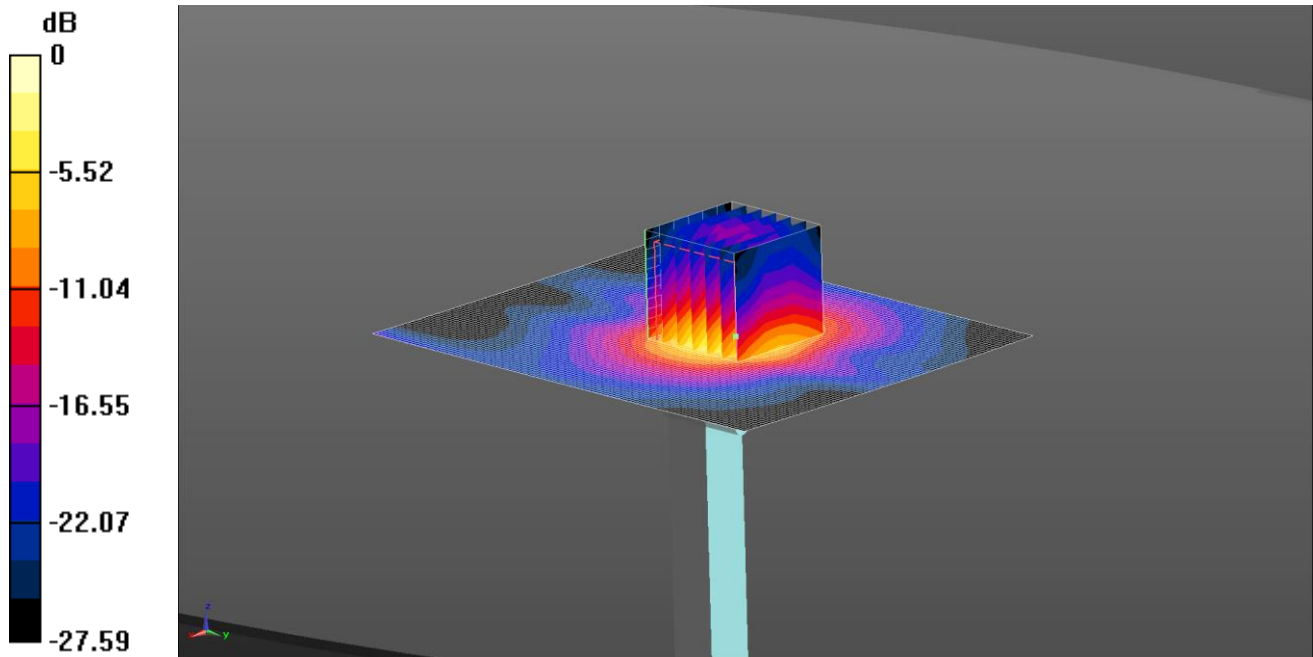
Peak SAR (extrapolated) = 28.1 W/kg

SAR(1 g) = 7.25 W/kg; SAR(10 g) = 2.05 W/kg

Maximum value of SAR (measured) = 15.2 W/kg

SYS/005: System Performance Check 5250 MHz Body 07 09 16
Date: 07/09/2016

DUT: 5GHz Dipole SN:1016; Type: D5GHzV2; Serial: SN 1016



0 dB = 13.8 W/kg = 11.40 dBW/kg

Communication System: UID 0, CW (0); Frequency: 5250 MHz; Duty Cycle: 1:1

Medium: 5250/5600/5750 MHz MSL Medium parameters used: $f = 5250$ MHz; $\sigma = 5.343$ S/m; $\epsilon_r = 47.498$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3814; ConvF(4.24, 4.24, 4.24); Calibrated: 06/10/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 28/09/2015
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/d=10mm, Pin=100mW 2 2/Area Scan (81x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 14.6 W/kg

Configuration/d=10mm, Pin=100mW 2 2/Zoom Scan (7x7x12) 2 (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 30.28 V/m; Power Drift = -0.35 dB

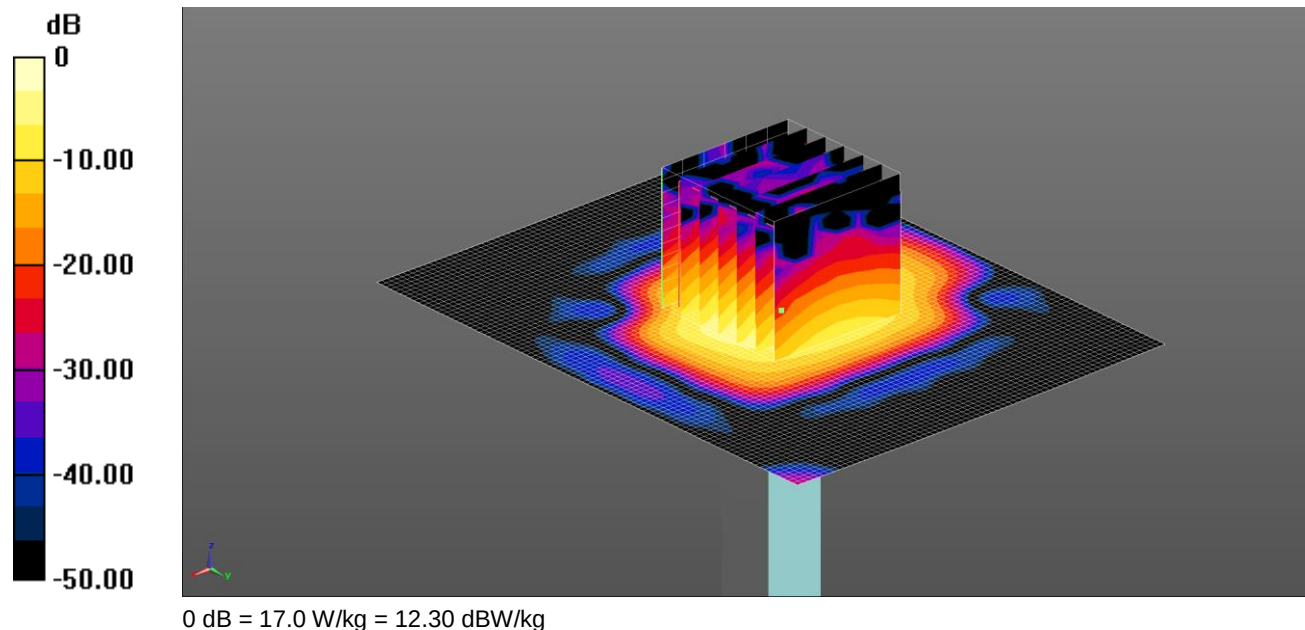
Peak SAR (extrapolated) = 23.5 W/kg

SAR(1 g) = 7.08 W/kg; SAR(10 g) = 2.14 W/kg

Maximum value of SAR (measured) = 13.8 W/kg

SYS/006: System Performance Check 5600 MHz Body 22 08 16
Date: 22/08/2016

DUT: 5GHz Dipole SN:1016; Type: D5GHzV2; Serial: SN 1016



Communication System: UID 0, CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1
Medium: 5250/5600/5750 MHz MSL Medium parameters used: $f = 5600$ MHz; $\sigma = 5.859$ S/m; $\epsilon_r = 46.72$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3994; ConvF(3.76, 3.76, 3.76); Calibrated: 21/03/2016;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1438; Calibrated: 25/04/2016
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/d=10mm, Pin=100mW/Area Scan (71x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 17.0 W/kg

Configuration/d=10mm, Pin=100mW/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 39.71 V/m; Power Drift = 0.12 dB

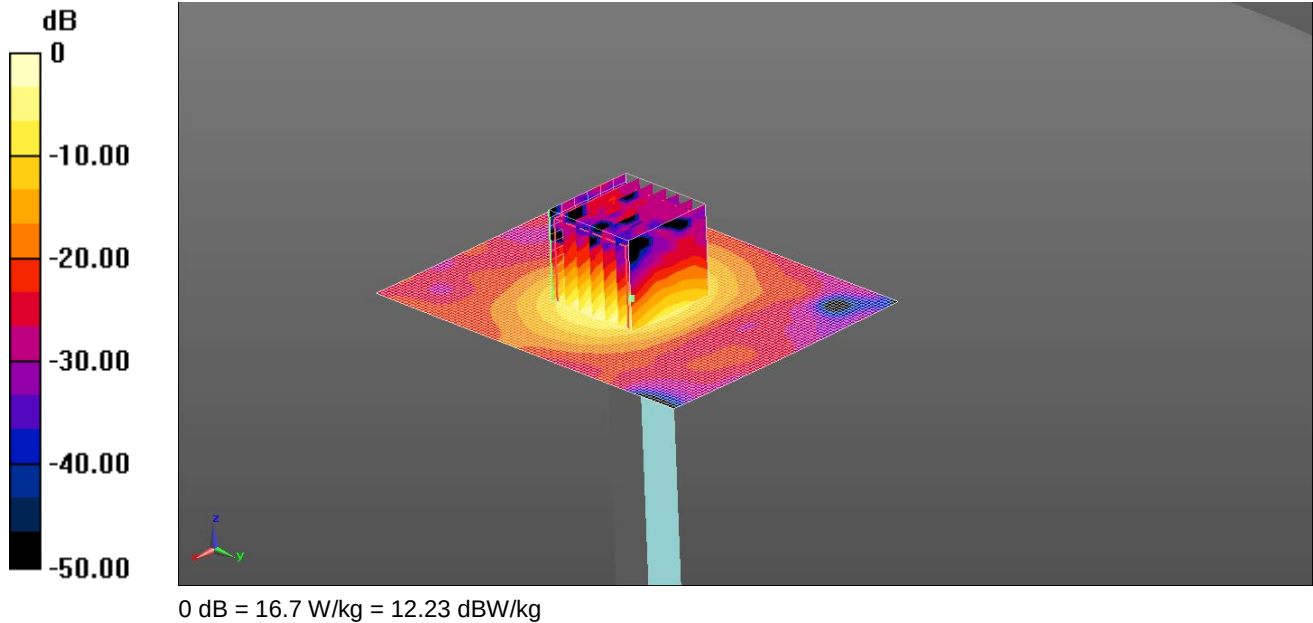
Peak SAR (extrapolated) = 32.3 W/kg

SAR(1 g) = 7.93 W/kg; SAR(10 g) = 2.11 W/kg

Maximum value of SAR (measured) = 17.0 W/kg

SYS/007: System Performance Check 5600 MHz Body 05 09 16
Date: 05/09/2016

DUT: 5GHz Dipole SN:1016; Type: D5GHzV2; Serial: SN 1016



Communication System: UID 0, CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: 5250/5600/5750 MHz MSL Medium parameters used: $f = 5600$ MHz; $\sigma = 5.834$ S/m; $\epsilon_r = 49.497$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3994; ConvF(3.76, 3.76, 3.76); Calibrated: 21/03/2016;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1438; Calibrated: 25/04/2016
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/d=10mm, Pin=100mW 2 2 2 2/Area Scan (71x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 17.7 W/kg

Configuration/d=10mm, Pin=100mW 2 2 2 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 40.51 V/m; Power Drift = -0.10 dB

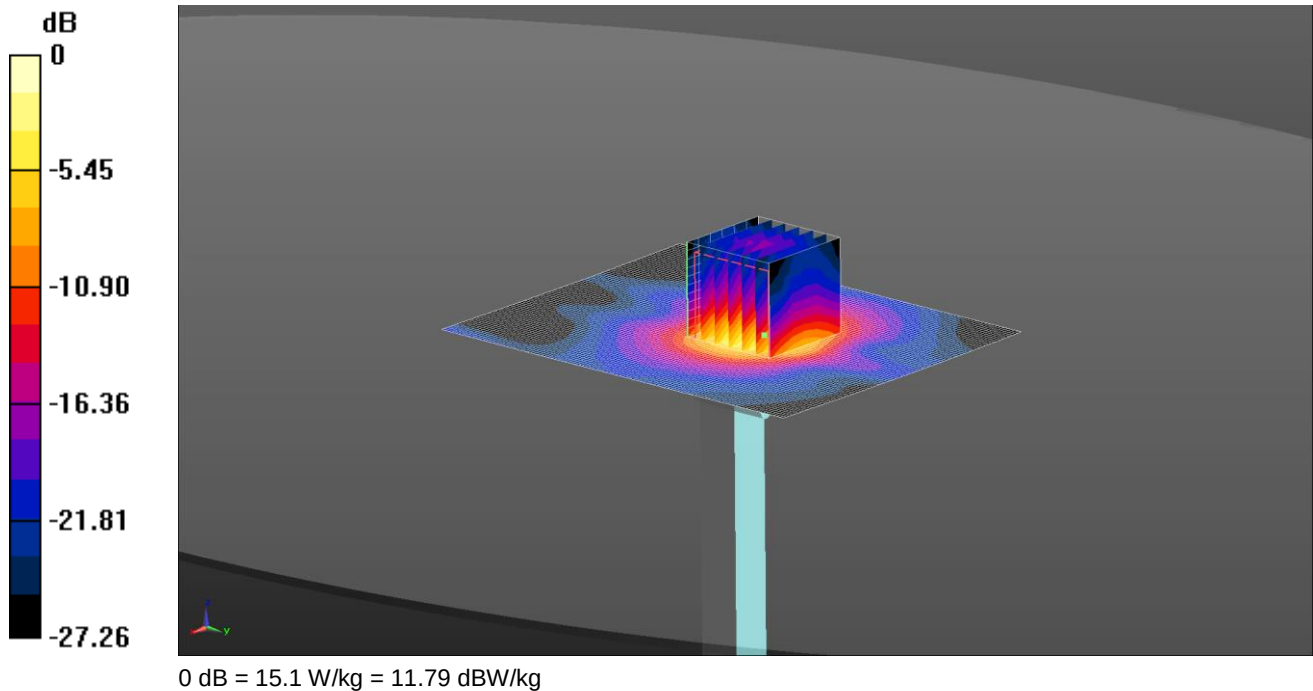
Peak SAR (extrapolated) = 31.5 W/kg

SAR(1 g) = 7.92 W/kg; SAR(10 g) = 2.22 W/kg

Maximum value of SAR (measured) = 16.7 W/kg

SYS/008: System Performance Check 5600 MHz Body 07 09 16
Date: 07/09/2016

DUT: 5GHz Dipole SN:1016; Type: D5GHzV2; Serial: SN 1016



Communication System: UID 0, CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: 5250/5600/5750 MHz MSL Medium parameters used: $f = 5600$ MHz; $\sigma = 5.923$ S/m; $\epsilon_r = 46.926$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3814; ConvF(3.81, 3.81, 3.81); Calibrated: 06/10/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 28/09/2015
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/d=10mm, Pin=100mW 2/Area Scan (81x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 16.0 W/kg

Configuration/d=10mm, Pin=100mW 2/Zoom Scan (7x7x12) 2 (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 29.34 V/m; Power Drift = -0.46 dB

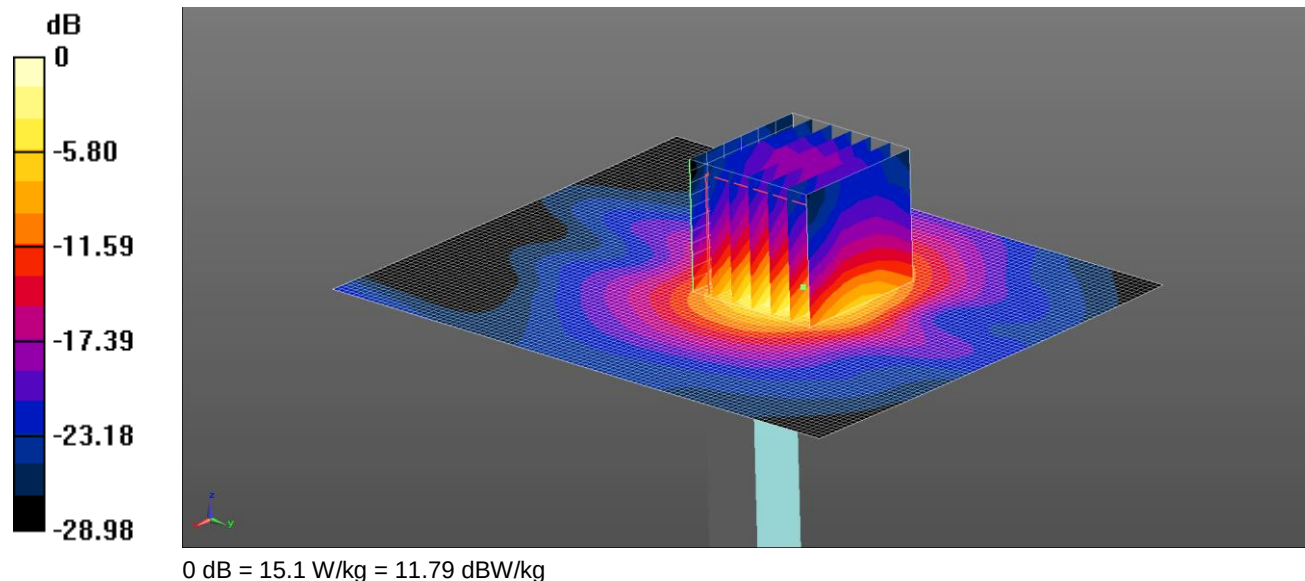
Peak SAR (extrapolated) = 26.8 W/kg

SAR(1 g) = 7.62 W/kg; SAR(10 g) = 2.27 W/kg

Maximum value of SAR (measured) = 15.1 W/kg

SYS/009: System Performance Check 5600 MHz Body 12 09 16
Date: 12/09/2016

DUT: 5GHz Dipole SN:1016; Type: D5GHzV2; Serial: SN 1016



Communication System: UID 0, CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: 5250/5600/5750 MHz MSL Medium parameters used: $f = 5600$ MHz; $\sigma = 5.841$ S/m; $\epsilon_r = 47.094$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3814; ConvF(3.81, 3.81, 3.81); Calibrated: 06/10/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 28/09/2015
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/d=10mm, Pin=100mW 2/Area Scan (81x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 16.3 W/kg

Configuration/d=10mm, Pin=100mW 2/Zoom Scan (7x7x12) 2 (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 26.11 V/m; Power Drift = -0.68 dB

Peak SAR (extrapolated) = 26.1 W/kg

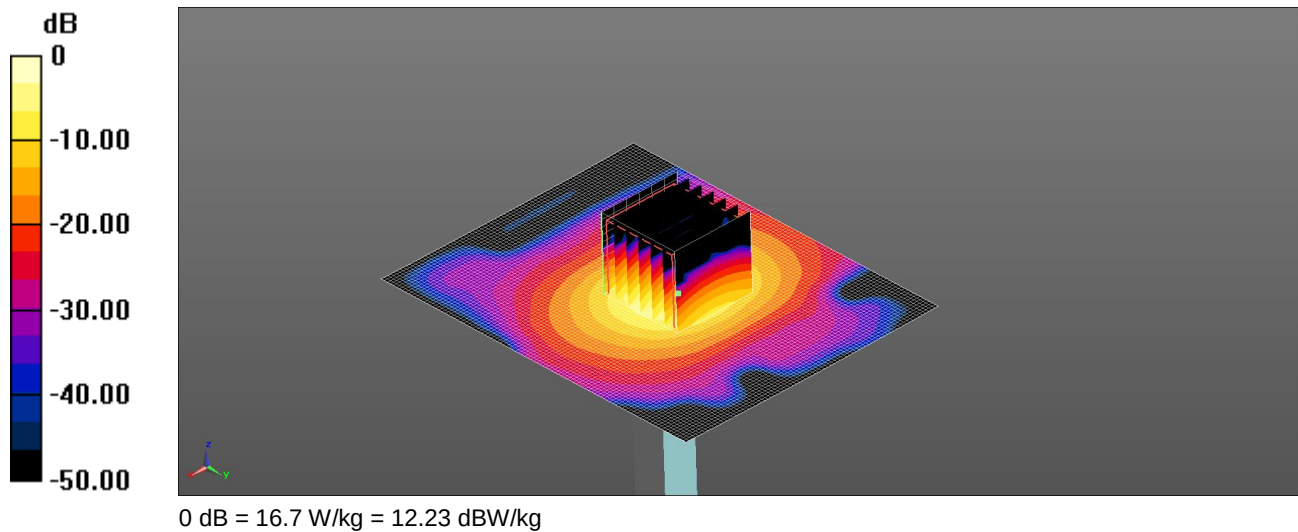
SAR(1 g) = 7.68 W/kg; SAR(10 g) = 2.3 W/kg

Maximum value of SAR (measured) = 15.1 W/kg

SYS/010: System Performance Check 5600 MHz Body 23 09 16

Date: 23/09/2016

DUT: 5GHz Dipole SN:1016; Type: D5GHzV2; Serial: SN 1016



Communication System: UID 0, CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: 5250/5600/5750 MHz MSL Medium parameters used: $f = 5600$ MHz; $\sigma = 5.857$ S/m; $\epsilon_r = 47.259$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3995; ConvF(3.88, 3.88, 3.88); Calibrated: 26/04/2016;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1435; Calibrated: 30/05/2016
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/d=10mm, Pin=100mW 2 2 2 2/Area Scan (81x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
 Maximum value of SAR (interpolated) = 16.6 W/kg

Configuration/d=10mm, Pin=100mW 2 2 2 2/Zoom Scan (7x7x12) 2 (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 37.67 V/m; Power Drift = 0.08 dB

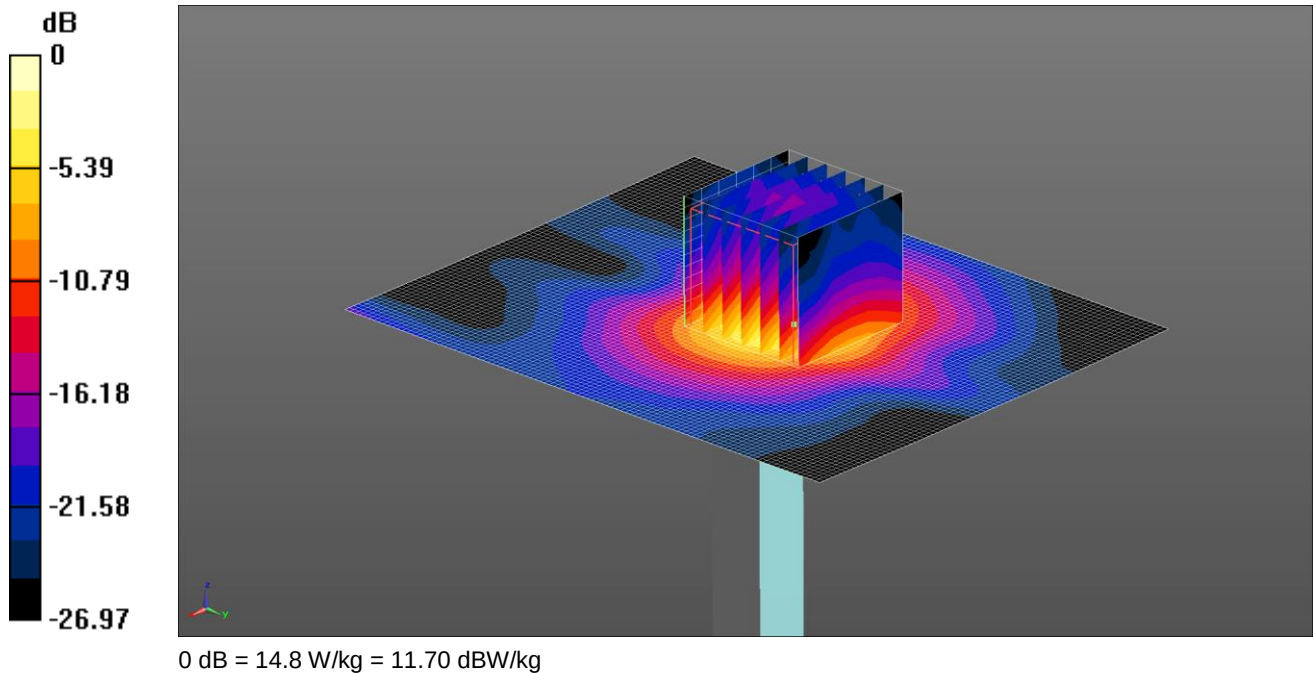
Peak SAR (extrapolated) = 32.4 W/kg

SAR(1 g) = 7.91 W/kg; SAR(10 g) = 2.2 W/kg

Maximum value of SAR (measured) = 16.7 W/kg

SYS/011: System Performance Check 5750 MHz Body 30 08 16
Date: 30/08/2016

DUT: 5GHz Dipole SN:1016; Type: D5GHzV2; Serial: SN 1016



Communication System: UID 0, CW (0); Frequency: 5750 MHz; Duty Cycle: 1:1

Medium: 5250/5600/5750 MHz MSL Medium parameters used: $f = 5750$ MHz; $\sigma = 6.116$ S/m; $\epsilon_r = 47.862$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3814; ConvF(3.99, 3.99, 3.99); Calibrated: 06/10/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 28/09/2015
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/d=10mm, Pin=100mW 2 2 /Area Scan (81x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 15.0 W/kg

Configuration/d=10mm, Pin=100mW 2 2 /Zoom Scan (7x7x12) 2 (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 32.92 V/m; Power Drift = -0.80 dB

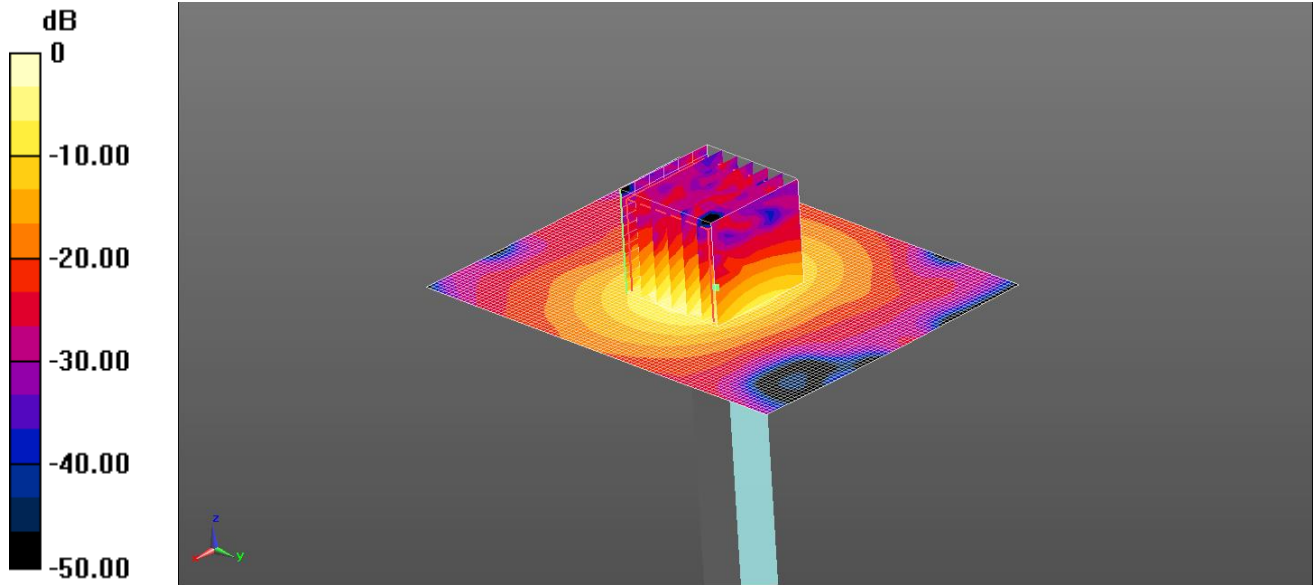
Peak SAR (extrapolated) = 25.6 W/kg

SAR(1 g) = 7.18 W/kg; SAR(10 g) = 2.17 W/kg

Maximum value of SAR (measured) = 14.8 W/kg

SYS/012: System Performance Check 5750 MHz Body 05 09 16
Date: 05/09/2016

DUT: 5GHz Dipole SN:1016; Type: D5GHzV2; Serial: SN 1016



0 dB = 15.8 W/kg = 11.99 dBW/kg

Communication System: UID 0, CW (0); Frequency: 5750 MHz; Duty Cycle: 1:1

Medium: 5250/5600/5750 MHz MSL Medium parameters used: $f = 5750$ MHz; $\sigma = 6.088$ S/m; $\epsilon_r = 49.154$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3994; ConvF(3.99, 3.99, 3.99); Calibrated: 21/03/2016;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1438; Calibrated: 25/04/2016
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/d=10mm, Pin=100mW 2/Area Scan (71x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 16.3 W/kg

Configuration/d=10mm, Pin=100mW 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 38.68 V/m; Power Drift = -0.08 dB

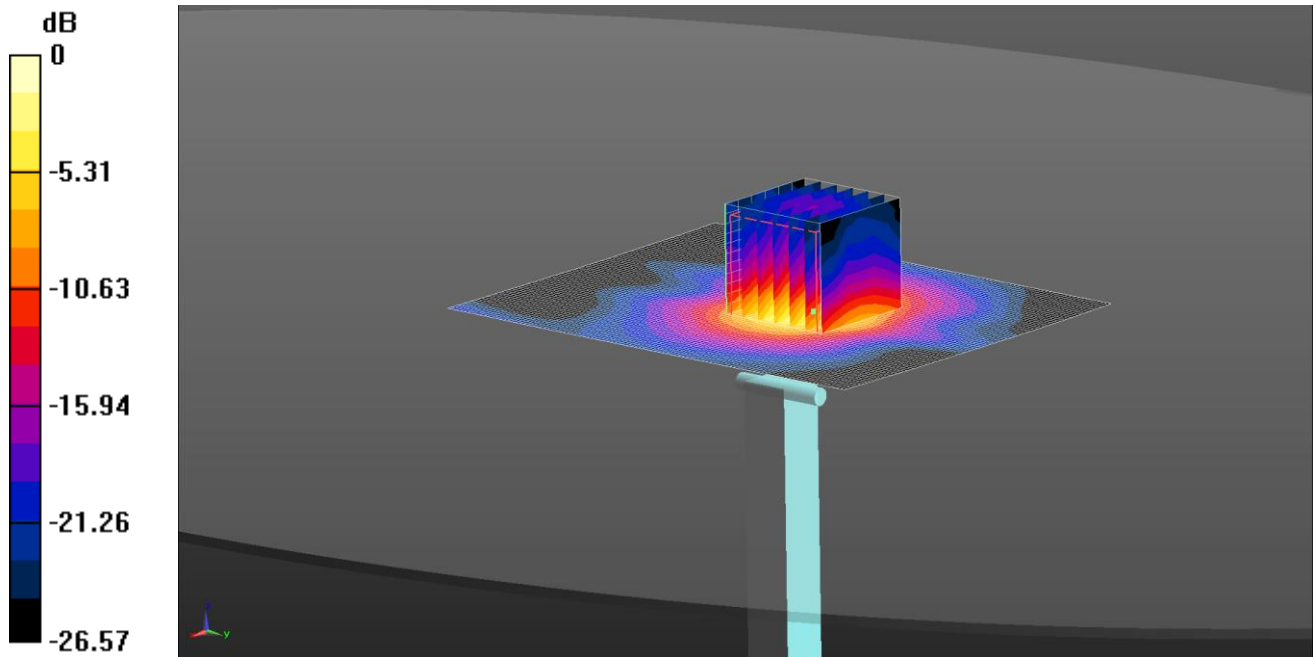
Peak SAR (extrapolated) = 29.6 W/kg

SAR(1 g) = 7.4 W/kg; SAR(10 g) = 2.09 W/kg

Maximum value of SAR (measured) = 15.8 W/kg

SYS/013: System Performance Check 5750 MHz Body 07 09 16
Date: 07/09/2016

DUT: 5GHz Dipole SN:1016; Type: D5GHzV2; Serial: SN 1016



0 dB = 14.1 W/kg = 11.49 dBW/kg

Communication System: UID 0, CW (0); Frequency: 5750 MHz; Duty Cycle: 1:1

Medium: 5250/5600/5750 MHz MSL Medium parameters used: $f = 5750$ MHz; $\sigma = 6.166$ S/m; $\epsilon_r = 46.582$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3814; ConvF(3.99, 3.99, 3.99); Calibrated: 06/10/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 28/09/2015
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/d=10mm, Pin=100mW 2 2 2/Area Scan (81x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 14.4 W/kg

Configuration/d=10mm, Pin=100mW 2 2 2/Zoom Scan (7x7x12) 2 (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 28.87 V/m; Power Drift = -0.80 dB

Peak SAR (extrapolated) = 24.5 W/kg

SAR(1 g) = 7.11 W/kg; SAR(10 g) = 2.17 W/kg

Maximum value of SAR (measured) = 14.1 W/kg

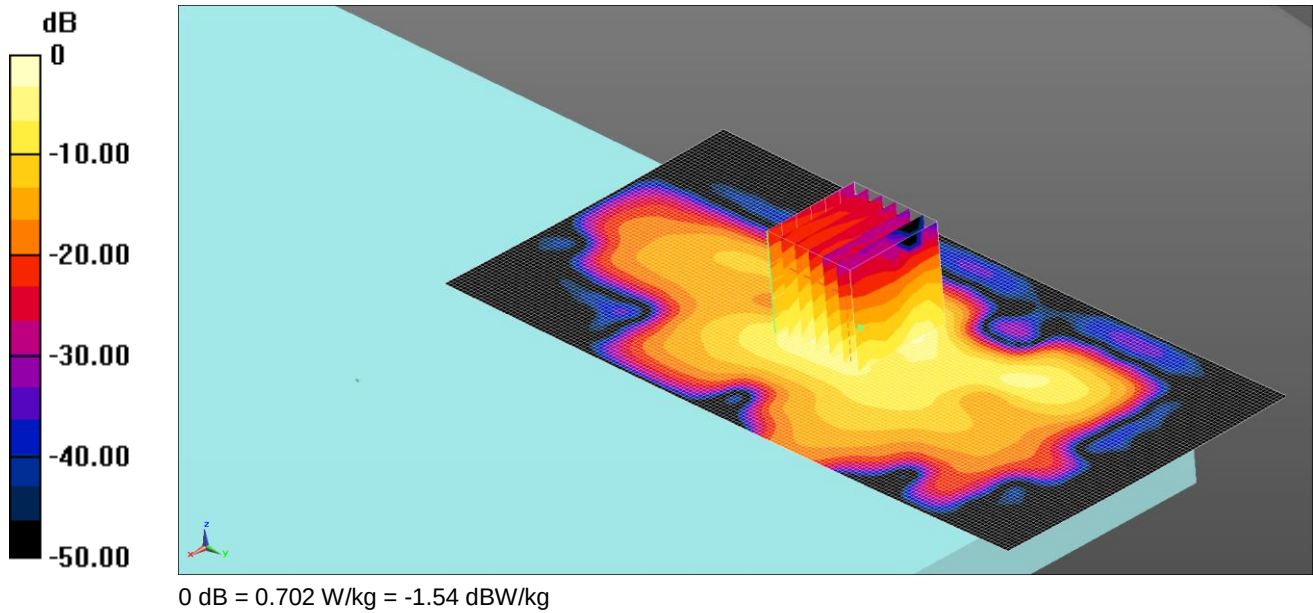
12.3. SAR Test Plots

This appendix contains the SAR Distribution Plots:

Scan Reference Number	Title
SAR/001	Back WLAN 2.4 GHz SISO Ant WF1 CH6
SAR/002	Display WLAN 2.4 GHz SISO Ant WF1 CH6
SAR/003	Back WLAN 2.4 GHz SISO Ant WF2 CH1
SAR/004	Display WLAN 2.4 GHz SISO Ant WF2 CH1
SAR/005	Back WLAN 2.4 GHz SISO Ant WF3 CH10
SAR/006	Display WLAN 2.4 GHz SISO Ant WF3 CH10
SAR/007	Back WLAN 2.4 GHz MIMO Ant WF1 + WF2 CH1
SAR/008	Back WLAN 2.4 GHz MIMO Ant WF2 + WF3 CH1
SAR/009	Back WLAN 2.4 GHz MIMO Ant WF1 + WF3 CH1
SAR/010	Back WLAN 2.4 GHz MIMO Ant WF1 + WF2 + WF3 CH1
SAR/011	Back WLAN 5 GHz 802.11n HT40 SISO Ant WF1 CH46
SAR/012	Display WLAN 5 GHz 802.11n HT40 SISO Ant WF1 CH46
SAR/013	Back WLAN 5 GHz 802.11a SISO Ant WF1 CH44
SAR/014	Back WLAN 5 GHz 802.11a SISO Ant WF1 CH40
SAR/015	Back WLAN 5 GHz 802.11n HT40 SISO Ant WF2 CH46
SAR/016	Back WLAN 5 GHz 802.11 HT40 SISO Ant WF2 CH38
SAR/017	Display WLAN 5 GHz 802.11n HT40 SISO Ant WF2 CH46
SAR/018	Back WLAN 5 GHz 802.11a SISO Ant WF2 CH36
SAR/019	Back WLAN 5 GHz 802.11a SISO Ant WF2 CH40
SAR/020	Back WLAN 5 GHz 802.11 HT40 SISO Ant WF3 CH46
SAR/021	Display WLAN 5 GHz 802.11 HT40 SISO Ant WF3 CH46
SAR/022	Back WLAN 5 GHz 802.11a SISO Ant WF3 CH48
SAR/023	Back WLAN 5 GHz 802.11n HT40 MIMO Ant WF1 + WF2 CH46
SAR/024	Back WLAN 5 GHz 802.11n HT40 MIMO Ant WF1 + WF2 CH38
SAR/025	Back WLAN 5 GHz 802.11n HT20 MIMO Ant WF1 + WF2 CH36
SAR/026	Back WLAN 5 GHz 802.11n HT20 MIMO Ant WF1 + WF2 CH44
SAR/027	Back WLAN 5 GHz 802.11n HT40 MIMO Ant WF2 + WF3 CH46
SAR/028	Back WLAN 5 GHz 802.11n HT40 MIMO Ant WF2 + WF3 CH38
SAR/029	Back WLAN 5 GHz 802.11n HT20 MIMO Ant WF2 + WF3 CH36
SAR/030	Back WLAN 5 GHz 802.11n HT20 MIMO Ant WF2 + WF3 CH44
SAR/031	Back WLAN 5 GHz 802.11n HT40 MIMO WF1 + WF3 CH46
SAR/032	Back WLAN 5 GHz 802.11n HT40 MIMO WF1 + WF3 CH38
SAR/033	Back WLAN 5 GHz 802.11n HT20 MIMO WF1 + WF3 CH36
SAR/034	Back WLAN 5 GHz 802.11n HT40 MIMO Ant WF1 + WF2 + WF3 CH46
SAR/035	Back WLAN 5 GHz 802.11n HT40 MIMO Ant WF1 + WF2 + WF3 CH38
SAR/036	Back WLAN 5 GHz 802.11n HT20 MIMO Ant WF1 + WF2 + WF3 CH36
SAR/037	Back WLAN 5 GHz 802.11n HT20 MIMO Ant WF1 + WF2 + WF3 CH40
SAR/038	Back WLAN 5 GHz 802.11ac VHT80 SISO Ant WF1 CH138
SAR/039	Back WLAN 5 GHz 802.11ac VHT80 SISO Ant WF1 CH106
SAR/040	Back WLAN 5 GHz 802.11ac VHT80 SISO Ant WF2 CH106
SAR/041	Back WLAN 5 GHz 802.11ac VHT80 SISO Ant WF3 CH106
SAR/042	Back WLAN 5 GHz 802.11ac VHT80 MIMO Ant WF1 + WF2 CH138
SAR/043	Back WLAN 5 GHz 802.11n HT40 MIMO Ant WF1 + WF2 CH110
SAR/044	Back WLAN 5 GHz 802.11ac VHT80 MIMO Ant WF2 + WF3 CH138
SAR/045	Back WLAN 5 GHz 802.11ac VHT80 MIMO Ant WF2 + WF3 CH122
SAR/046	Back WLAN 5 GHz 802.11n HT40 MIMO Ant WF2 + WF3 CH110
SAR/047	Back WLAN 5 GHz 802.11ac VHT80 MIMO WF1 + WF3 CH138
SAR/048	Back WLAN 5 GHz 802.11n HT40 MIMO WF1 + WF3 CH110
SAR/049	Back WLAN 5 GHz 802.11n HT40 MIMO WF1 + WF3 CH134
SAR/050	Back WLAN 5 GHz 802.11n HT40 MIMO Ant WF1 + WF2 + WF3 CH102
SAR/051	Back WLAN 5 GHz 802.11n HT40 MIMO Ant WF1 + WF2 + WF3 CH110
SAR/052	Back WLAN 5 GHz 802.11ac VHT80 SISO Ant WF1 CH155
SAR/053	Back WLAN 5 GHz 802.11ac VHT80 SISO Ant WF2 CH155
SAR/054	Back WLAN 5 GHz 802.11ac VHT80 SISO Ant WF3 CH155
SAR/055	Back WLAN 5 GHz 802.11ac VHT80 MIMO Ant WF1 + WF2 CH155
SAR/056	Back WLAN 5 GHz 802.11ac VHT80 MIMO Ant WF2 + WF3 CH155
SAR/057	Back WLAN 5 GHz 802.11ac VHT80 MIMO WF1 + WF3 CH155
SAR/058	Back WLAN 5 GHz 802.11ac VHT80 MIMO Ant WF1 + WF2 + WF3 CH155
SAR/059	Back Bluetooth BDR SISO Ant WF3 CH78
SAR/060	Display Bluetooth BDR SISO Ant WF3 CH78

SAR/001: Back WLAN 2.4 GHz SISO Ant WF1 CH6
Date: 07/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



Communication System: UID 0, WLAN 802.11 (0); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 2.017$ S/m; $\epsilon_r = 50.289$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
DASY Configuration:
- Probe: EX3DV4 - SN3995; ConvF(7.54, 7.54, 7.54); Calibrated: 26/04/2016;
- Sensor-Surface: 3mm (Mechanical Surface Detection), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1435; Calibrated: 30/05/2016
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2/Area Scan 2 (81x171x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.702 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.41 V/m; Power Drift = -0.03 dB

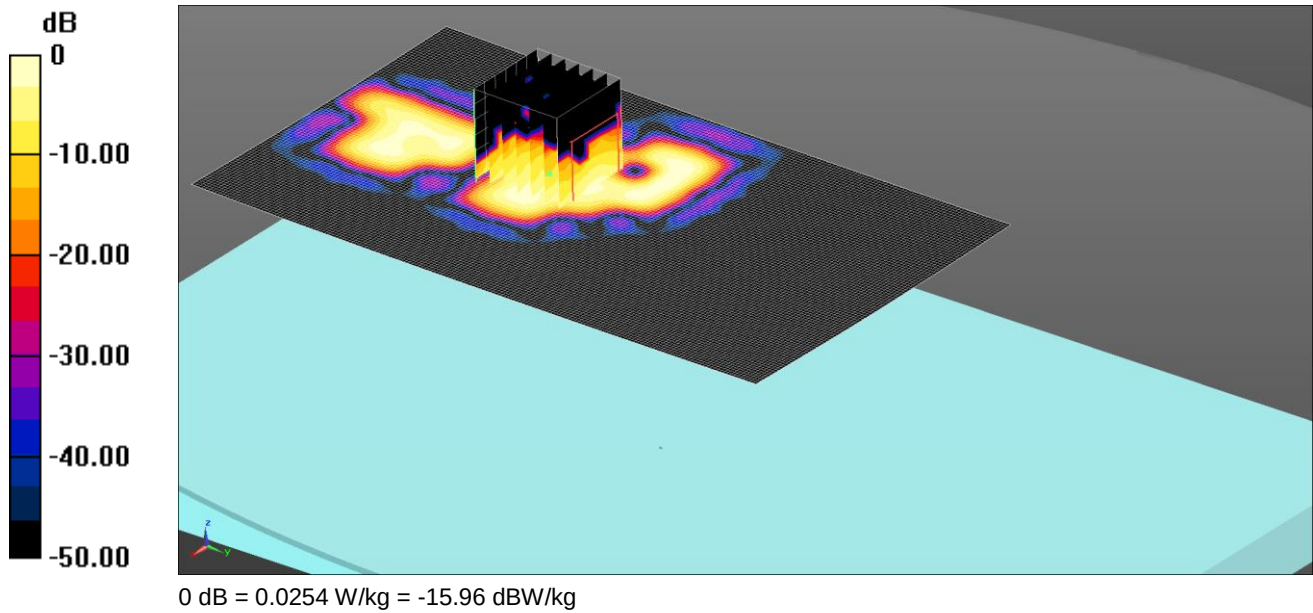
Peak SAR (extrapolated) = 1.72 W/kg

SAR(1 g) = 0.571 W/kg; SAR(10 g) = 0.208 W/kg

Maximum value of SAR (measured) = 0.977 W/kg

SAR/002: Display WLAN 2.4 GHz SISO Ant WF1 CH6
Date: 07/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



Communication System: UID 0, WLAN 802.11 (0); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 2.017$ S/m; $\epsilon_r = 50.289$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
DASY Configuration:
- Probe: EX3DV4 - SN3995; ConvF(7.54, 7.54, 7.54); Calibrated: 26/04/2016;
- Sensor-Surface: 3mm (Mechanical Surface Detection), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1435; Calibrated: 30/05/2016
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Display - Bodyworn - PBx 2 2/Area Scan 2 (101x171x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0254 W/kg

Configuration/Display - Bodyworn - PBx 2 2/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.0350 W/kg

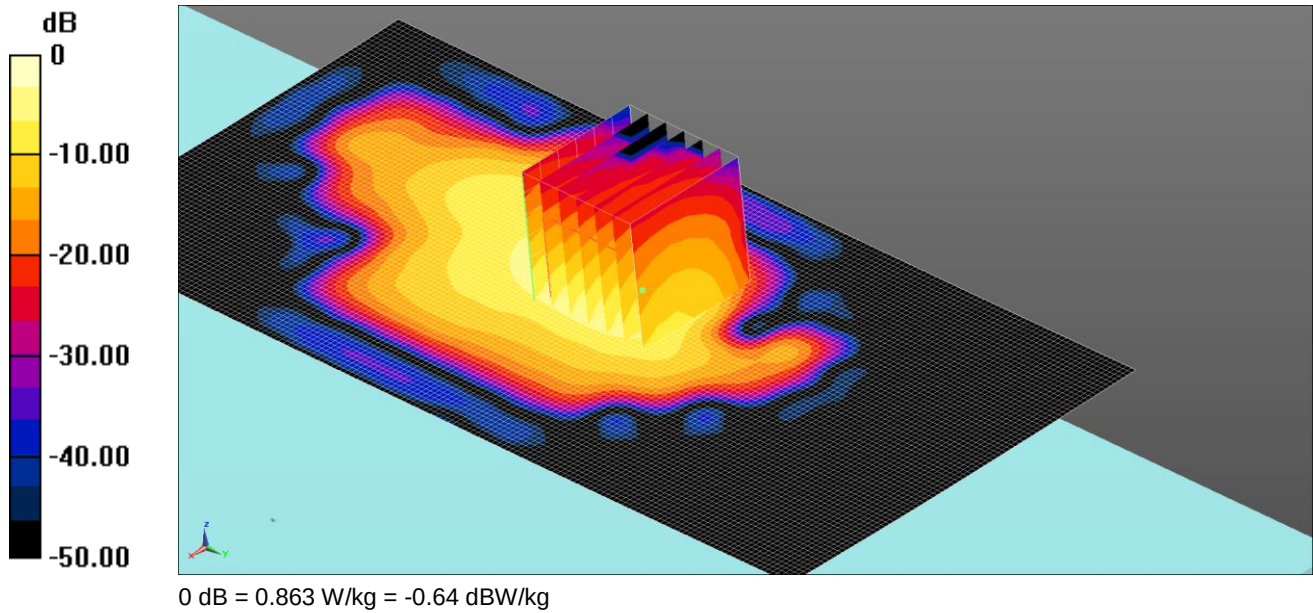
SAR(1 g) = 0.010 W/kg; SAR(10 g) = 0.00377 W/kg

Maximum value of SAR (measured) = 0.0182 W/kg

Note: SAR level measured is very low as equivalent to noise floor.

SAR/003: Back WLAN 2.4 GHz SISO Ant WF2 CH1
Date: 08/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



Communication System: UID 0, WLAN 802.11 (0); Frequency: 2412 MHz; Duty Cycle: 1:1
Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2412$ MHz; $\sigma = 1.995$ S/m; $\epsilon_r = 50.319$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3995; ConvF(7.54, 7.54, 7.54); Calibrated: 26/04/2016;
- Sensor-Surface: 3mm (Mechanical Surface Detection), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1435; Calibrated: 30/05/2016
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Display - Bodyworn - PBx 2/Area Scan 2 (81x171x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.863 W/kg

Configuration/Display - Bodyworn - PBx 2/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.78 V/m; Power Drift = 0.00 dB

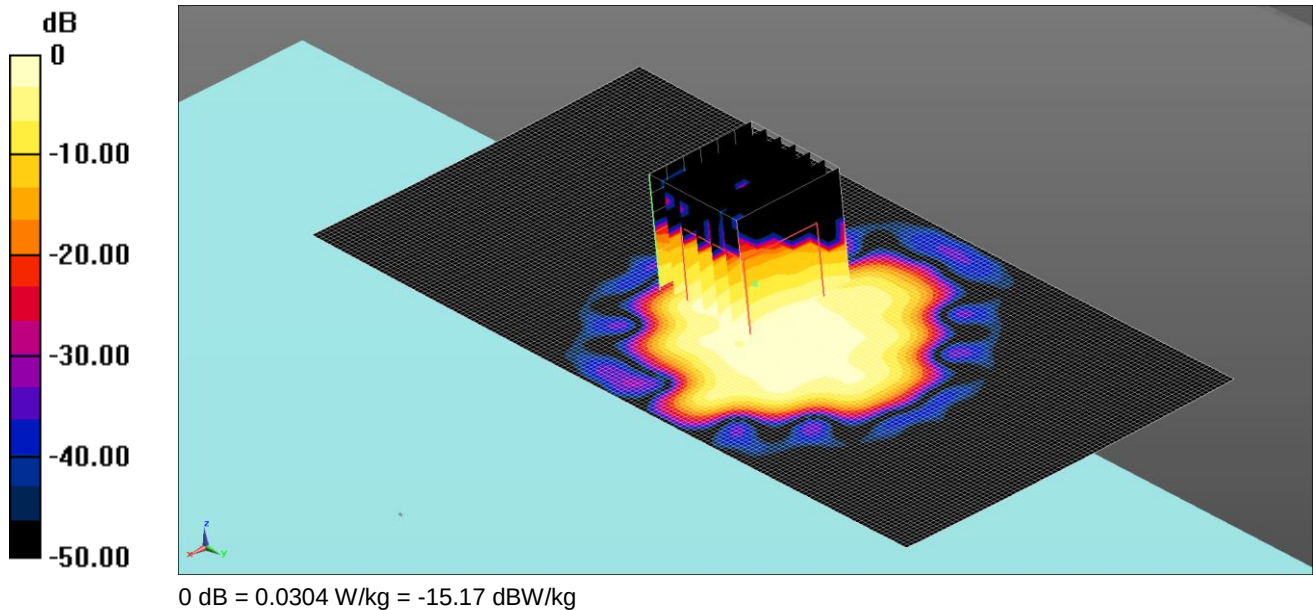
Peak SAR (extrapolated) = 1.68 W/kg

SAR(1 g) = 0.556 W/kg; SAR(10 g) = 0.210 W/kg

Maximum value of SAR (measured) = 1.07 W/kg

SAR/004: Display WLAN 2.4 GHz SISO Ant WF2 CH1
Date: 08/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



Communication System: UID 0, WLAN 802.11 (0); Frequency: 2412 MHz; Duty Cycle: 1:1
Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2412$ MHz; $\sigma = 1.995$ S/m; $\epsilon_r = 50.319$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3995; ConvF(7.54, 7.54, 7.54); Calibrated: 26/04/2016;
- Sensor-Surface: 3mm (Mechanical Surface Detection), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1435; Calibrated: 30/05/2016
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Display - Bodyworn - PBx 2 2/Area Scan 2 (81x171x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0304 W/kg

Configuration/Display - Bodyworn - PBx 2 2/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.0300 W/kg

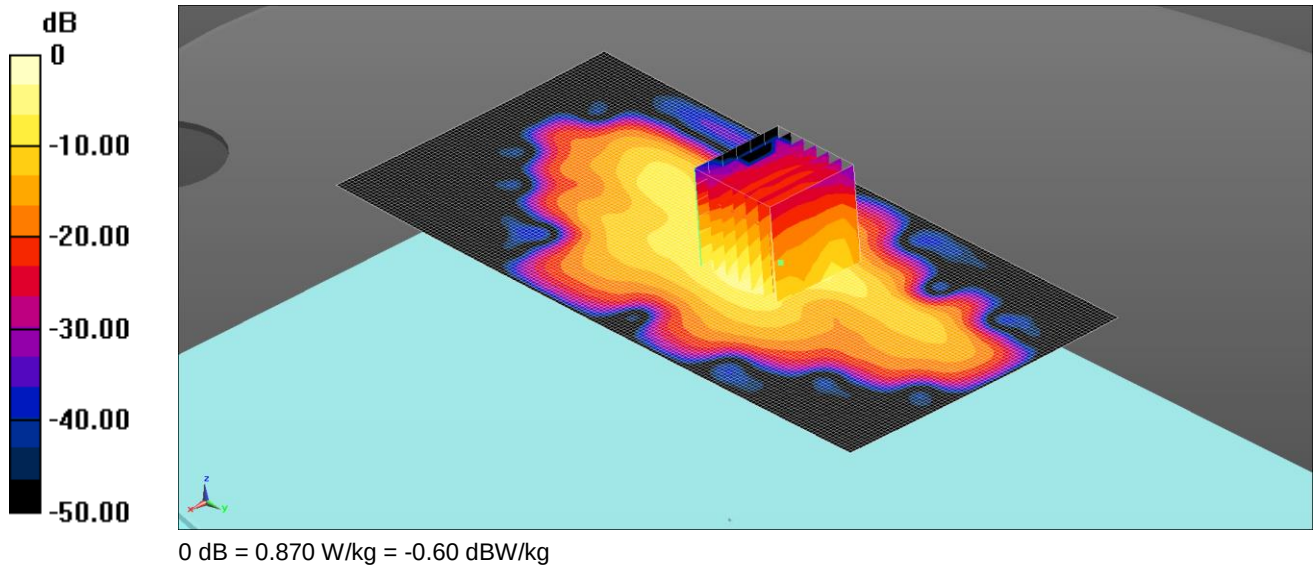
SAR(1 g) = 0.014 W/kg; SAR(10 g) = 0.00549 W/kg

Maximum value of SAR (measured) = 0.0247 W/kg

Note: SAR level measured is very low as equivalent to noise floor.

SAR/005: Back WLAN 2.4 GHz SISO Ant WF3 CH10
Date: 08/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



Communication System: UID 0, WLAN 802.11 (0); Frequency: 2457 MHz; Duty Cycle: 1:1

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2457$ MHz; $\sigma = 2.035$ S/m; $\epsilon_r = 50.269$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3995; ConvF(7.54, 7.54, 7.54); Calibrated: 26/04/2016;
- Sensor-Surface: 3mm (Mechanical Surface Detection), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1435; Calibrated: 30/05/2016
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2/Area Scan 2 (81x171x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.870 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.48 V/m; Power Drift = -0.03 dB

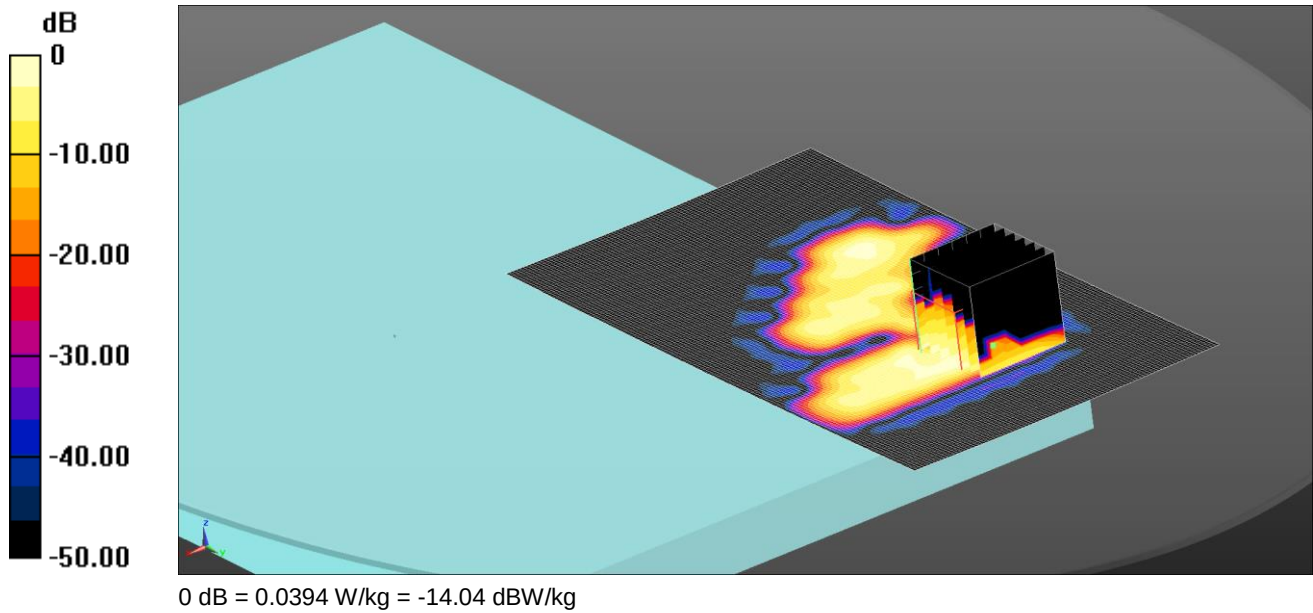
Peak SAR (extrapolated) = 2.01 W/kg

SAR(1 g) = 0.667 W/kg; SAR(10 g) = 0.242 W/kg

Maximum value of SAR (measured) = 1.28 W/kg

SAR/006: Display WLAN 2.4 GHz SISO Ant WF3 CH10
Date: 08/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



Communication System: UID 0, WLAN 802.11 (0); Frequency: 2457 MHz; Duty Cycle: 1:1
Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2457$ MHz; $\sigma = 2.035$ S/m; $\epsilon_r = 50.269$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3995; ConvF(7.54, 7.54, 7.54); Calibrated: 26/04/2016;
- Sensor-Surface: 3mm (Mechanical Surface Detection), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1435; Calibrated: 30/05/2016
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Display - Bodyworn - PBx 2/Area Scan 2 (91x171x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0394 W/kg

Configuration/Display - Bodyworn - PBx 2/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.830 V/m; Power Drift = 0.30 dB

Peak SAR (extrapolated) = 0.0290 W/kg

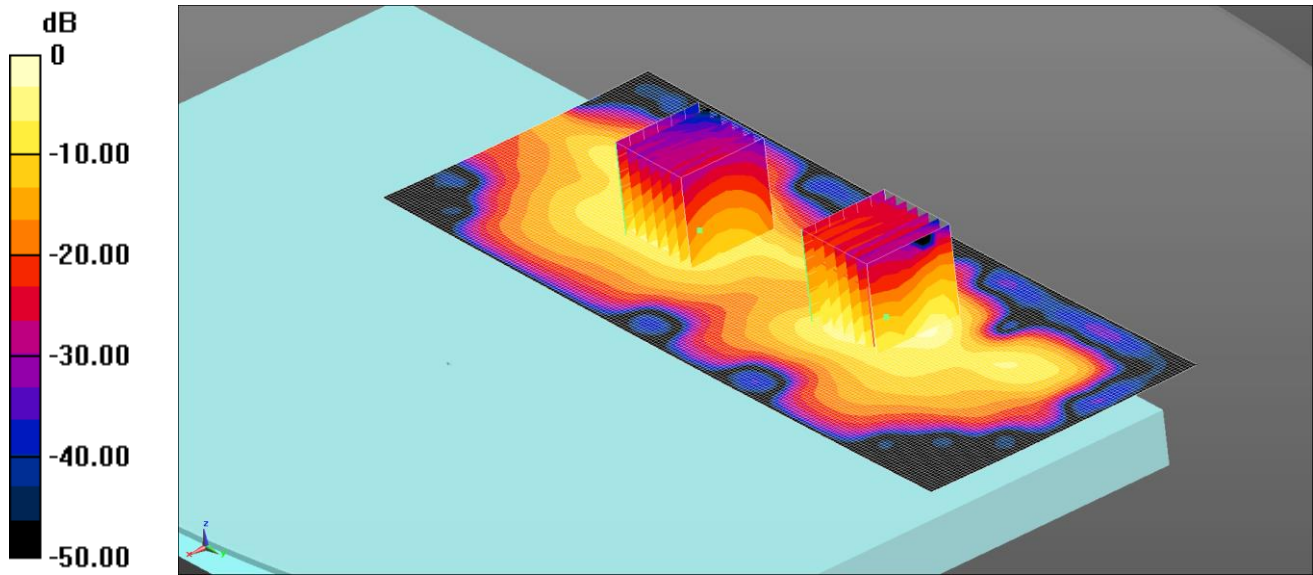
SAR(1 g) = 0.012 W/kg; SAR(10 g) = 0.0051 W/kg

Maximum value of SAR (measured) = 0.0199 W/kg

Note: SAR level measured is very low as equivalent to noise floor.

SAR/007: Back WLAN 2.4 GHz MIMO Ant WF1 + WF2 CH1
Date: 08/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



0 dB = 0.913 W/kg = -0.39 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2412$ MHz; $\sigma = 1.995$ S/m; $\epsilon_r = 50.319$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3995; ConvF(7.54, 7.54, 7.54); Calibrated: 26/04/2016;
- Sensor-Surface: 3mm (Mechanical Surface Detection), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1435; Calibrated: 30/05/2016
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2/Area Scan 2 (81x211x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.913 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.991 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 2.22 W/kg

SAR(1 g) = 0.702 W/kg; SAR(10 g) = 0.250 W/kg

Maximum value of SAR (measured) = 1.29 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.991 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.78 W/kg

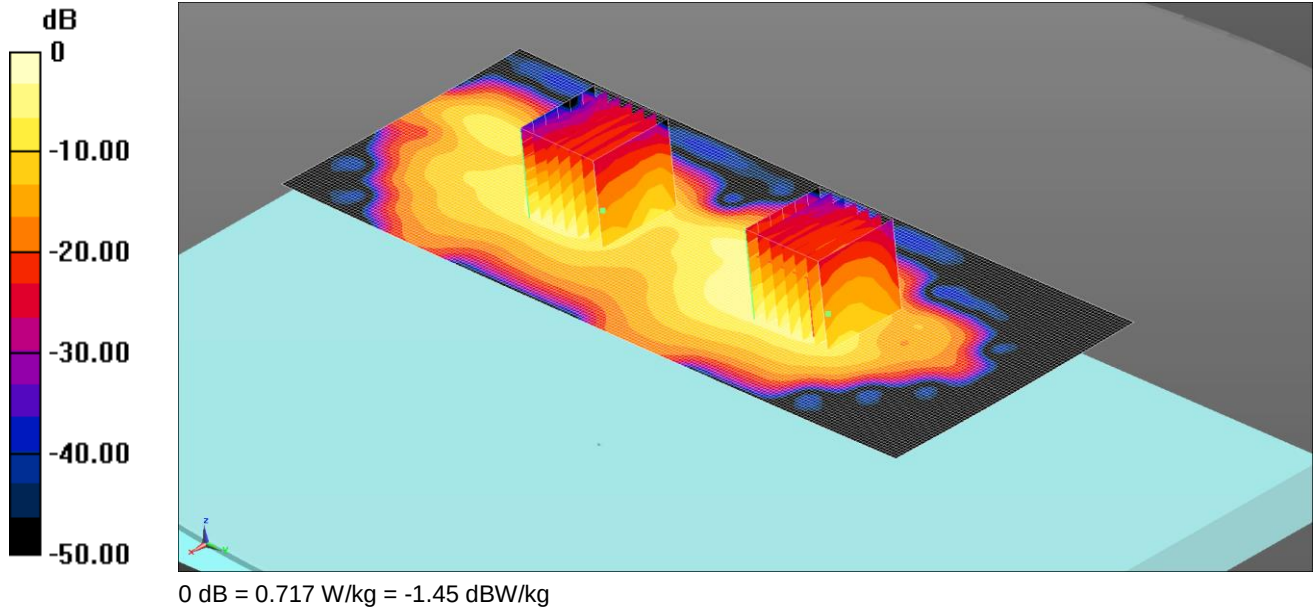
SAR(1 g) = 0.590 W/kg; SAR(10 g) = 0.225 W/kg

Maximum value of SAR (measured) = 1.09 W/kg

Note: DASY system is configured to measure any secondary maxima that are within 2dB of the measured SAR level.

SAR/008: Back WLAN 2.4 GHz MIMO Ant WF2 + WF3 CH1
Date: 08/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



Communication System: UID 0, WLAN 802.11 (0); Frequency: 2412 MHz; Duty Cycle: 1:1
Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2412$ MHz; $\sigma = 1.995$ S/m; $\epsilon_r = 50.319$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3995; ConvF(7.54, 7.54, 7.54); Calibrated: 26/04/2016;
- Sensor-Surface: 3mm (Mechanical Surface Detection), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1435; Calibrated: 30/05/2016
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2/Area Scan 2 (81x211x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.717 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.67 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.52 W/kg

SAR(1 g) = 0.520 W/kg; SAR(10 g) = 0.195 W/kg

Maximum value of SAR (measured) = 0.937 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.67 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.76 W/kg

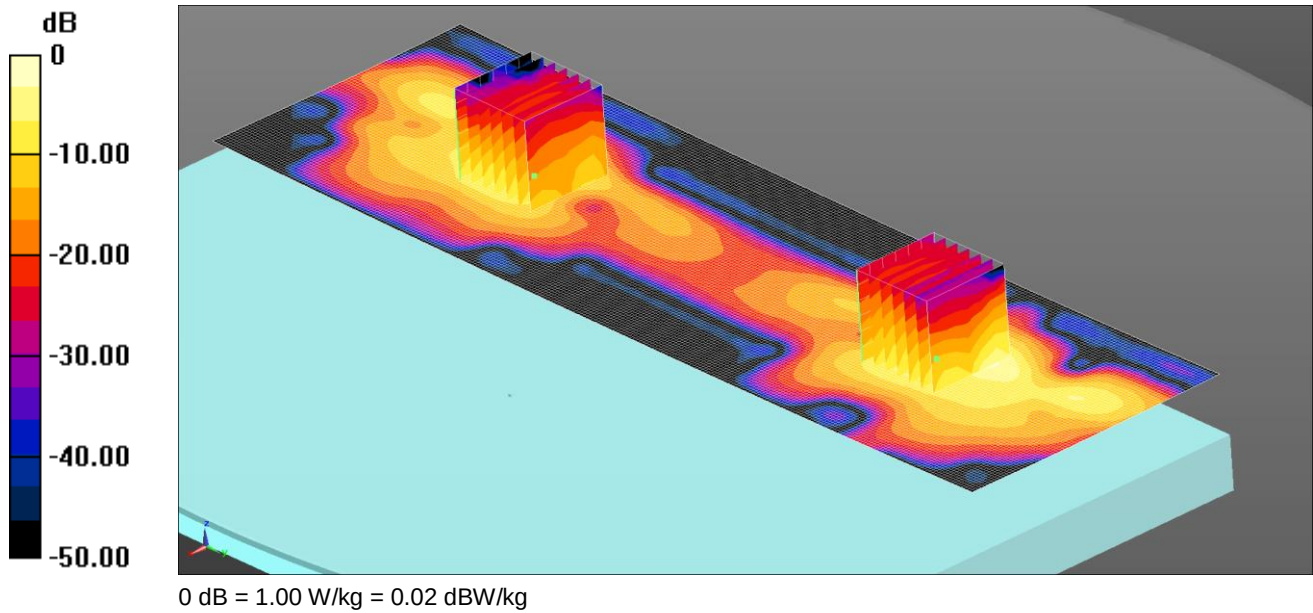
SAR(1 g) = 0.586 W/kg; SAR(10 g) = 0.228 W/kg

Maximum value of SAR (measured) = 1.02 W/kg

Note: DASY system is configured to measure any secondary maxima that are within 2dB of the measured SAR level.

SAR/009: Back WLAN 2.4 GHz MIMO Ant WF1 + WF3 CH1
Date: 08/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



Communication System: UID 0, WLAN 802.11 (0); Frequency: 2412 MHz; Duty Cycle: 1:1
Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2412$ MHz; $\sigma = 1.995$ S/m; $\epsilon_r = 50.319$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3995; ConvF(7.54, 7.54, 7.54); Calibrated: 26/04/2016;
- Sensor-Surface: 3mm (Mechanical Surface Detection), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1435; Calibrated: 30/05/2016
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2/Area Scan 2 (81x271x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.00 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.64 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 2.19 W/kg

SAR(1 g) = 0.694 W/kg; SAR(10 g) = 0.246 W/kg

Maximum value of SAR (measured) = 1.37 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.64 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.53 W/kg

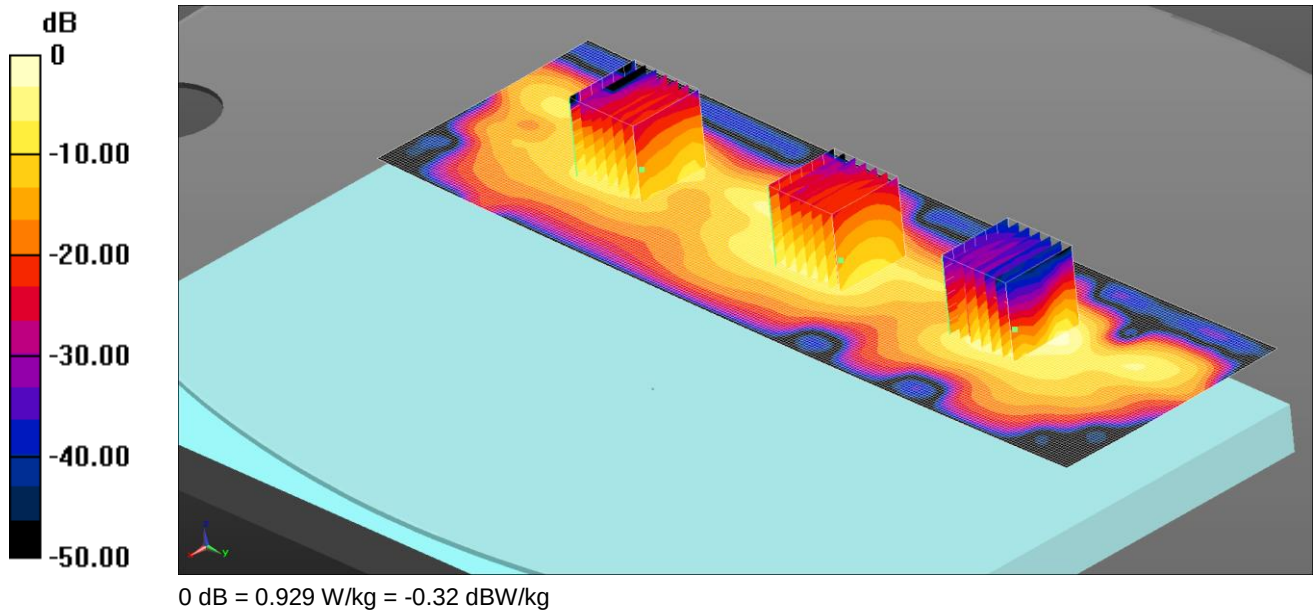
SAR(1 g) = 0.496 W/kg; SAR(10 g) = 0.179 W/kg

Maximum value of SAR (measured) = 0.966 W/kg

Note: DASY system is configured to measure any secondary maxima that are within 2dB of the measured SAR level.

SAR/010: Back WLAN 2.4 GHz MIMO Ant WF1 + WF2 + WF3 CH1
Date: 08/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



Communication System: UID 0, WLAN 802.11 (0); Frequency: 2412 MHz; Duty Cycle: 1:1
Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2412$ MHz; $\sigma = 1.995$ S/m; $\epsilon_r = 50.319$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3995; ConvF(7.54, 7.54, 7.54); Calibrated: 26/04/2016;
- Sensor-Surface: 3mm (Mechanical Surface Detection), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1435; Calibrated: 30/05/2016
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2/Area Scan 2 (81x271x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.929 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.071 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 2.42 W/kg

SAR(1 g) = 0.762 W/kg; SAR(10 g) = 0.269 W/kg

Maximum value of SAR (measured) = 1.47 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.071 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.73 W/kg

SAR(1 g) = 0.567 W/kg; SAR(10 g) = 0.216 W/kg

Maximum value of SAR (measured) = 1.07 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x7) (7x7x7)/Cube 2: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.071 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.40 W/kg

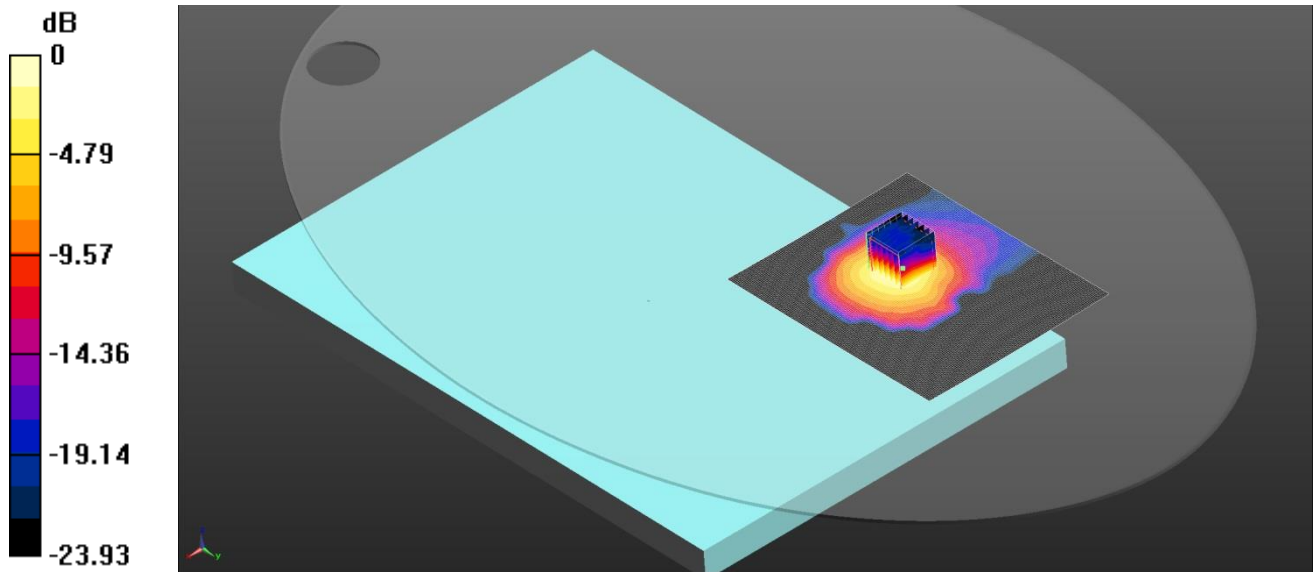
SAR(1 g) = 0.460 W/kg; SAR(10 g) = 0.169 W/kg

Maximum value of SAR (measured) = 0.858 W/kg

Note: DASY system is configured to measure any secondary maxima that are within 2dB of the measured SAR level.

SAR/011: Back WLAN 5 GHz 802.11n HT40 SISO Ant WF1 CH46
Date: 25/08/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



0 dB = 1.46 W/kg = 1.64 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 5230 MHz; Duty Cycle: 1:1

Medium: 5250/5600/5750 MHz MSL Medium parameters used (interpolated): $f = 5230$ MHz; $\sigma = 5.345$ S/m; $\epsilon_r = 47.394$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3814; ConvF(4.24, 4.24, 4.24); Calibrated: 06/10/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 28/09/2015
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2/Area Scan 2 (121x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.40 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 9.106 V/m; Power Drift = -0.12 dB

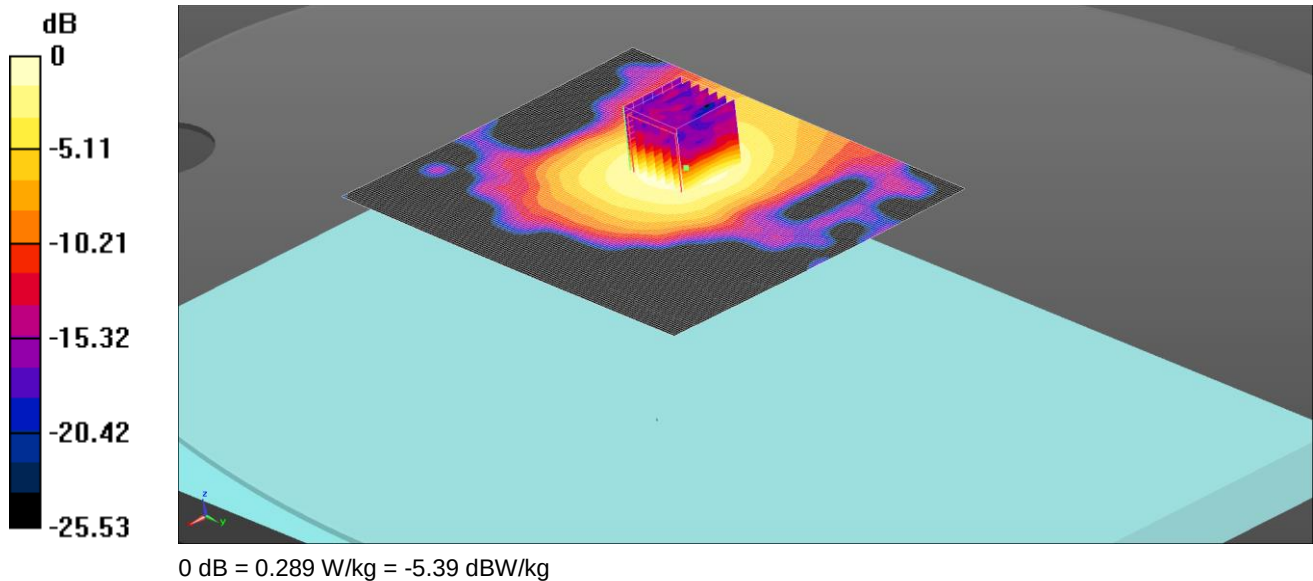
Peak SAR (extrapolated) = 2.62 W/kg

SAR(1 g) = 0.785 W/kg; SAR(10 g) = 0.306 W/kg

Maximum value of SAR (measured) = 1.46 W/kg

SAR/012: Display WLAN 5 GHz 802.11n HT40 SISO Ant WF1 CH46
Date: 25/08/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



Communication System: UID 0, WLAN 802.11 (0); Frequency: 5230 MHz; Duty Cycle: 1:1
Medium: 5250/5600/5750 MHz MSL Medium parameters used (interpolated): $f = 5230$ MHz; $\sigma = 5.345$ S/m; $\epsilon_r = 47.394$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3814; ConvF(4.24, 4.24, 4.24); Calibrated: 06/10/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 28/09/2015
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Display - Bodyworn - PBx 2/Area Scan 2 (121x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.276 W/kg

Configuration/Display - Bodyworn - PBx 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 7.845 V/m; Power Drift = -0.07 dB

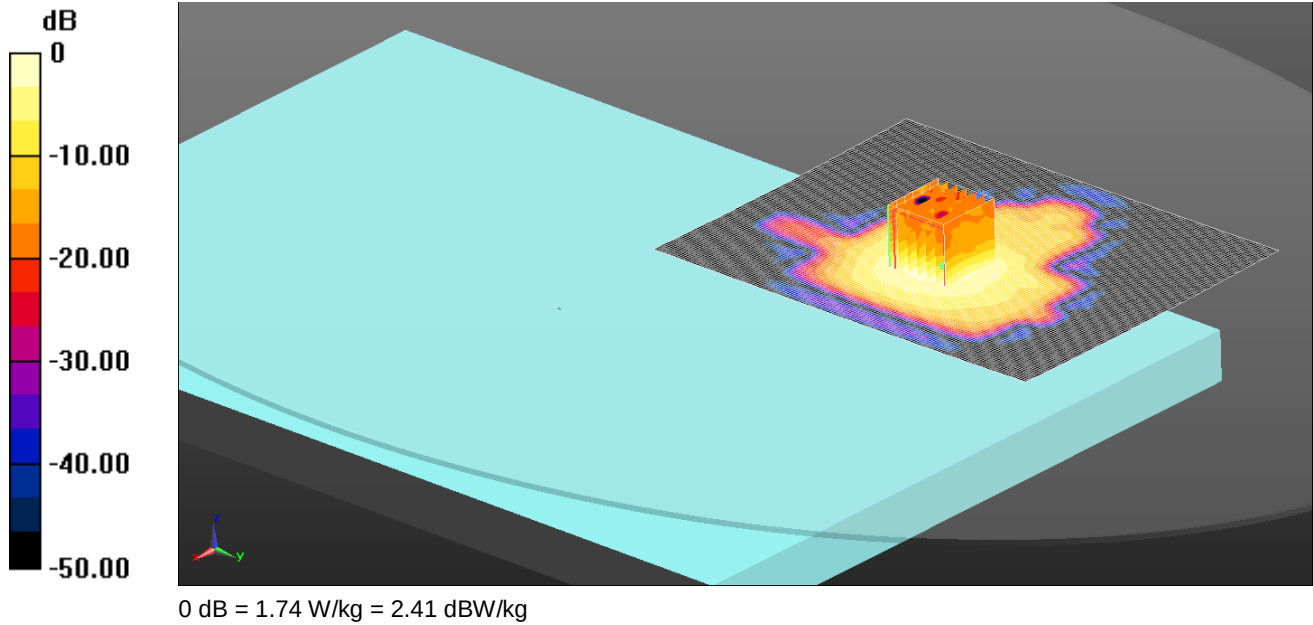
Peak SAR (extrapolated) = 0.500 W/kg

SAR(1 g) = 0.162 W/kg; SAR(10 g) = 0.072 W/kg

Maximum value of SAR (measured) = 0.289 W/kg

SAR/013: Back WLAN 5 GHz 802.11a SISO Ant WF1 CH44
Date: 07/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



Communication System: UID 0, WLAN 802.11 (0); Frequency: 5220 MHz; Duty Cycle: 1:1
Medium: 5250/5600/5750 MHz MSL Medium parameters used (interpolated): $f = 5220$ MHz; $\sigma = 5.227$ S/m; $\epsilon_r = 50.149$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3994; ConvF(4.38, 4.38, 4.38); Calibrated: 21/03/2016;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1438; Calibrated: 25/04/2016
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2/Area Scan (121x161x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.65 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 19.83 V/m; Power Drift = -0.01 dB

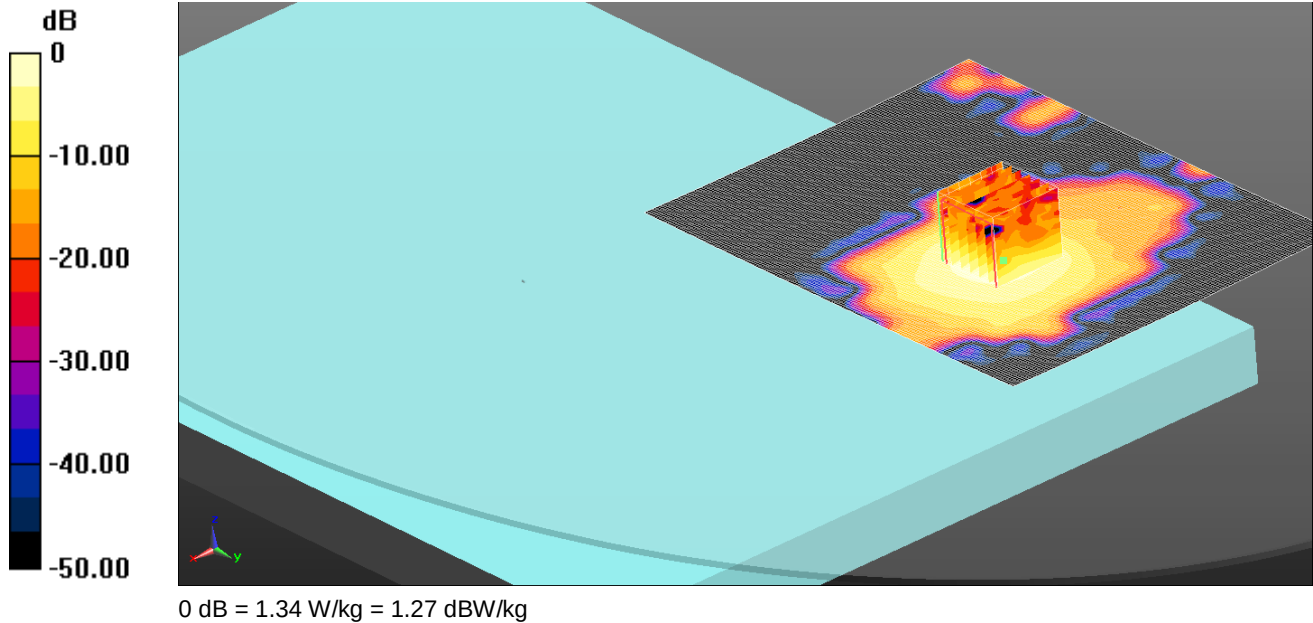
Peak SAR (extrapolated) = 3.41 W/kg

SAR(1 g) = 0.909 W/kg; SAR(10 g) = 0.337 W/kg

Maximum value of SAR (measured) = 1.74 W/kg

SAR/014: Back WLAN 5 GHz 802.11a SISO Ant WF1 CH40
Date: 07/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



Communication System: UID 0, WLAN 802.11 (0); Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: 5250/5600/5750 MHz MSL Medium parameters used: $f = 5200$ MHz; $\sigma = 5.199$ S/m; $\epsilon_r = 50.196$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3994; ConvF(4.38, 4.38, 4.38); Calibrated: 21/03/2016;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1438; Calibrated: 25/04/2016
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2/Area Scan (121x161x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.29 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 10.26 V/m; Power Drift = 0.03 dB

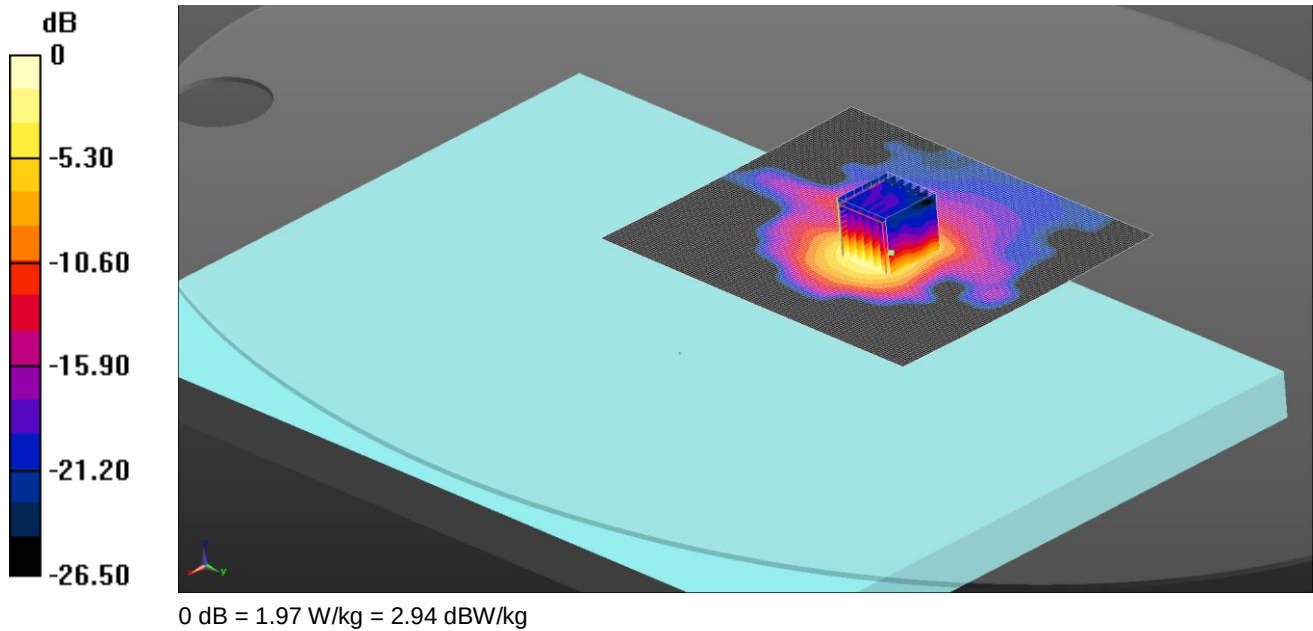
Peak SAR (extrapolated) = 2.68 W/kg

SAR(1 g) = 0.725 W/kg; SAR(10 g) = 0.265 W/kg

Maximum value of SAR (measured) = 1.34 W/kg

SAR/015: Back WLAN 5 GHz 802.11n HT40 SISO Ant WF2 CH46
Date: 25/08/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



Communication System: UID 0, WLAN 802.11 (0); Frequency: 5230 MHz; Duty Cycle: 1:1

Medium: 5250/5600/5750 MHz MSL Medium parameters used (interpolated): $f = 5230$ MHz; $\sigma = 5.345$ S/m; $\epsilon_r = 47.394$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3814; ConvF(4.24, 4.24, 4.24); Calibrated: 06/10/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 28/09/2015
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2/Area Scan 2 (121x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 2.05 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 7.747 V/m; Power Drift = -0.07 dB

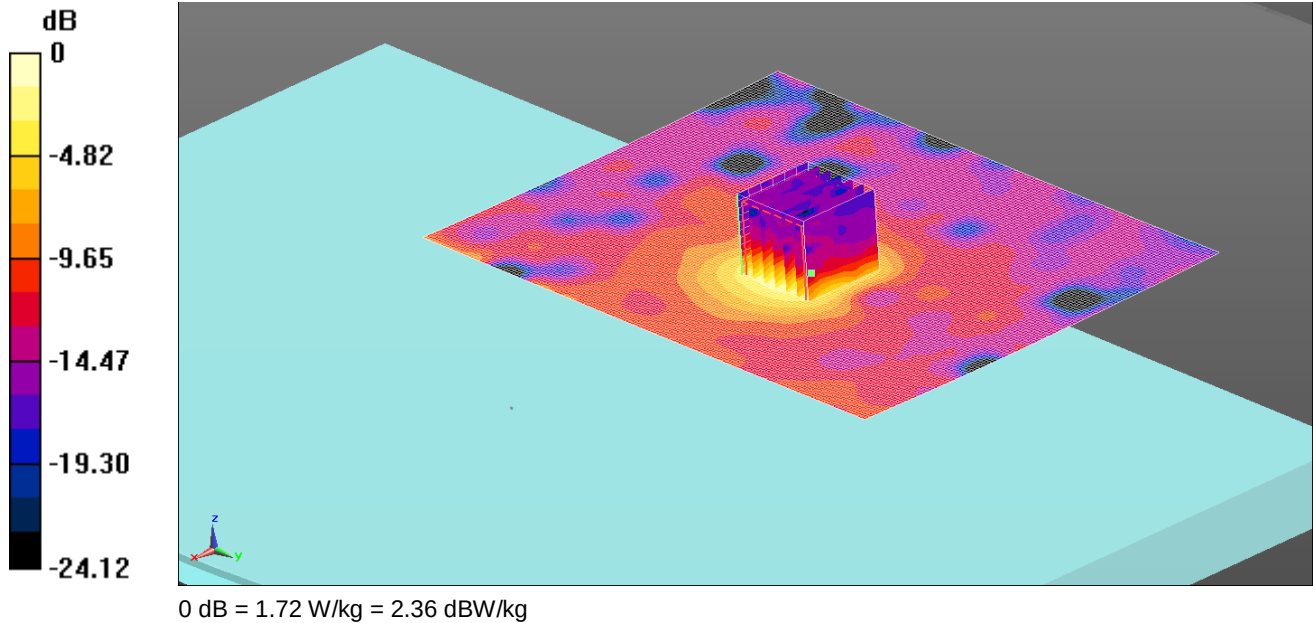
Peak SAR (extrapolated) = 3.76 W/kg

SAR(1 g) = 1.05 W/kg; SAR(10 g) = 0.381 W/kg

Maximum value of SAR (measured) = 1.97 W/kg

SAR/016: Back WLAN 5 GHz 802.11 HT40 SISO Ant WF2 CH38
Date: 07/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



Communication System: UID 0, WLAN 802.11 (0); Frequency: 5190 MHz; Duty Cycle: 1:1
Medium: 5250/5600/5750 MHz MSL Medium parameters used (interpolated): $f = 5190$ MHz; $\sigma = 5.185$ S/m; $\epsilon_r = 50.215$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3994; ConvF(4.38, 4.38, 4.38); Calibrated: 21/03/2016;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1438; Calibrated: 25/04/2016
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2/Area Scan (121x161x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 1.74 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 19.66 V/m; Power Drift = 0.05 dB

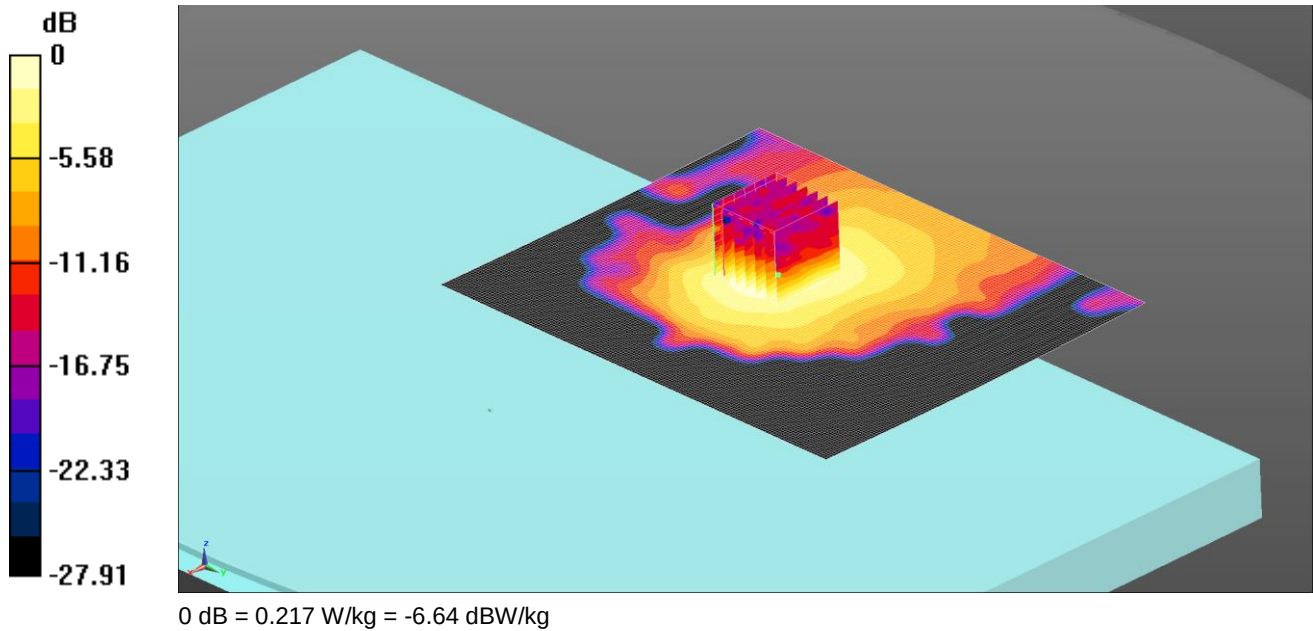
Peak SAR (extrapolated) = 3.36 W/kg

SAR(1 g) = 0.907 W/kg; SAR(10 g) = 0.335 W/kg

Maximum value of SAR (measured) = 1.72 W/kg

SAR/017: Display WLAN 5 GHz 802.11n HT40 SISO Ant WF2 CH46
Date: 26/08/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



Communication System: UID 0, WLAN 802.11 (0); Frequency: 5230 MHz; Duty Cycle: 1:1

Medium: 5250/5600/5750 MHz MSL Medium parameters used (interpolated): $f = 5230$ MHz; $\sigma = 5.345$ S/m; $\epsilon_r = 47.394$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3814; ConvF(4.24, 4.24, 4.24); Calibrated: 06/10/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 28/09/2015
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Display- Bodyworn - PBx 2/Area Scan 2 3 (121x151x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 0.214 W/kg

Configuration/Display- Bodyworn - PBx 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 7.003 V/m; Power Drift = -0.10 dB

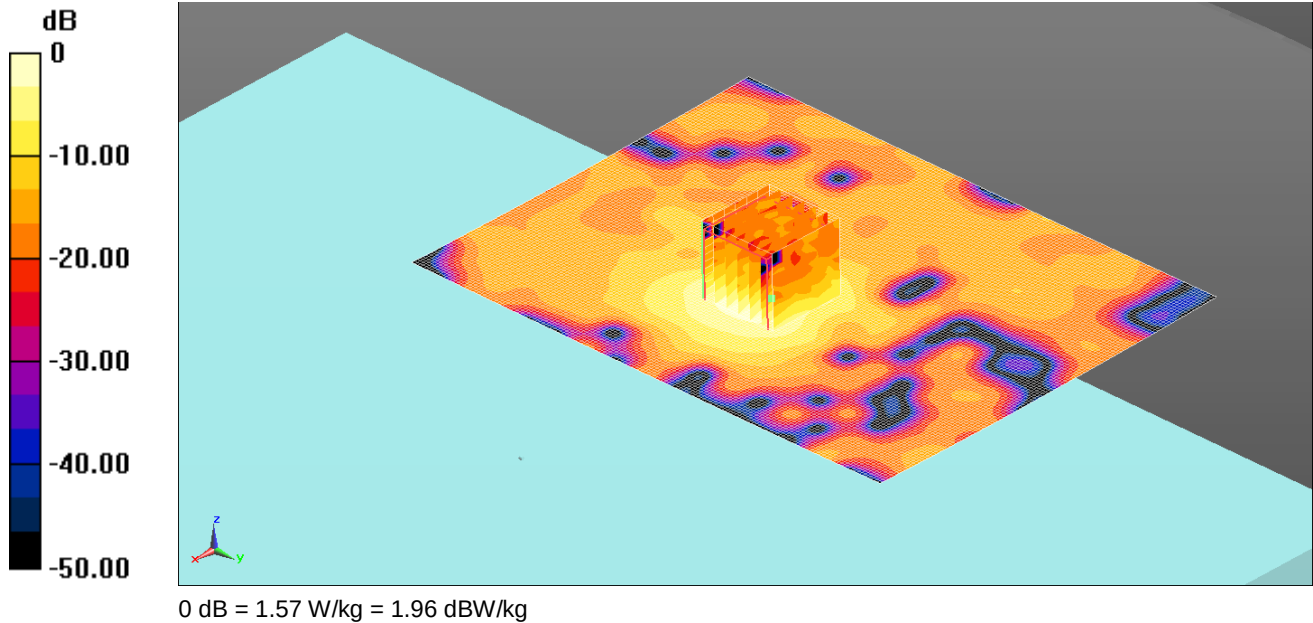
Peak SAR (extrapolated) = 0.379 W/kg

SAR(1 g) = 0.125 W/kg; SAR(10 g) = 0.048 W/kg

Maximum value of SAR (measured) = 0.217 W/kg

SAR/018: Back WLAN 5 GHz 802.11a SISO Ant WF2 CH36
Date: 07/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



Communication System: UID 0, WLAN 802.11 (0); Frequency: 5180 MHz; Duty Cycle: 1:1

Medium: 5250/5600/5750 MHz MSL Medium parameters used (interpolated): $f = 5180$ MHz; $\sigma = 5.17$ S/m; $\epsilon_r = 50.234$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3994; ConvF(4.38, 4.38, 4.38); Calibrated: 21/03/2016;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1438; Calibrated: 25/04/2016
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2/Area Scan (121x161x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.69 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 8.169 V/m; Power Drift = -0.14 dB

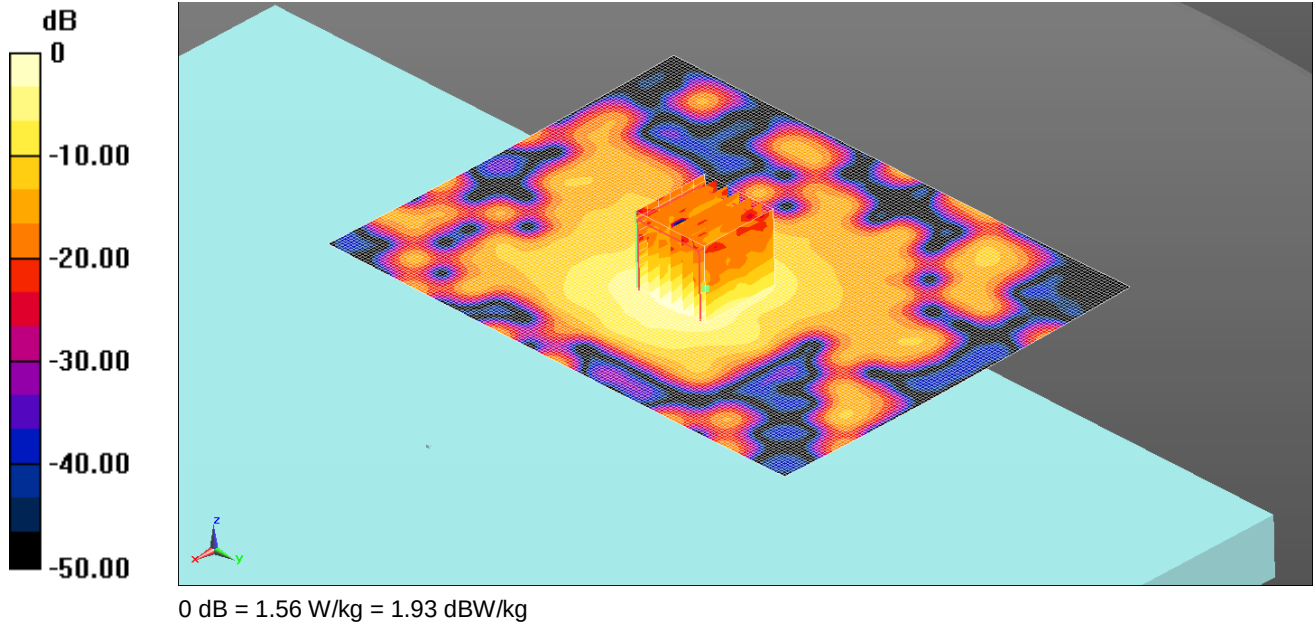
Peak SAR (extrapolated) = 3.10 W/kg

SAR(1 g) = 0.841 W/kg; SAR(10 g) = 0.291 W/kg

Maximum value of SAR (measured) = 1.57 W/kg

SAR/019: Back WLAN 5 GHz 802.11a SISO Ant WF2 CH40
Date: 07/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



Communication System: UID 0, WLAN 802.11 (0); Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: 5250/5600/5750 MHz MSL Medium parameters used: $f = 5200$ MHz; $\sigma = 5.199$ S/m; $\epsilon_r = 50.196$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3994; ConvF(4.38, 4.38, 4.38); Calibrated: 21/03/2016;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1438; Calibrated: 25/04/2016
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2/Area Scan (121x161x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.56 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 19.31 V/m; Power Drift = -0.01 dB

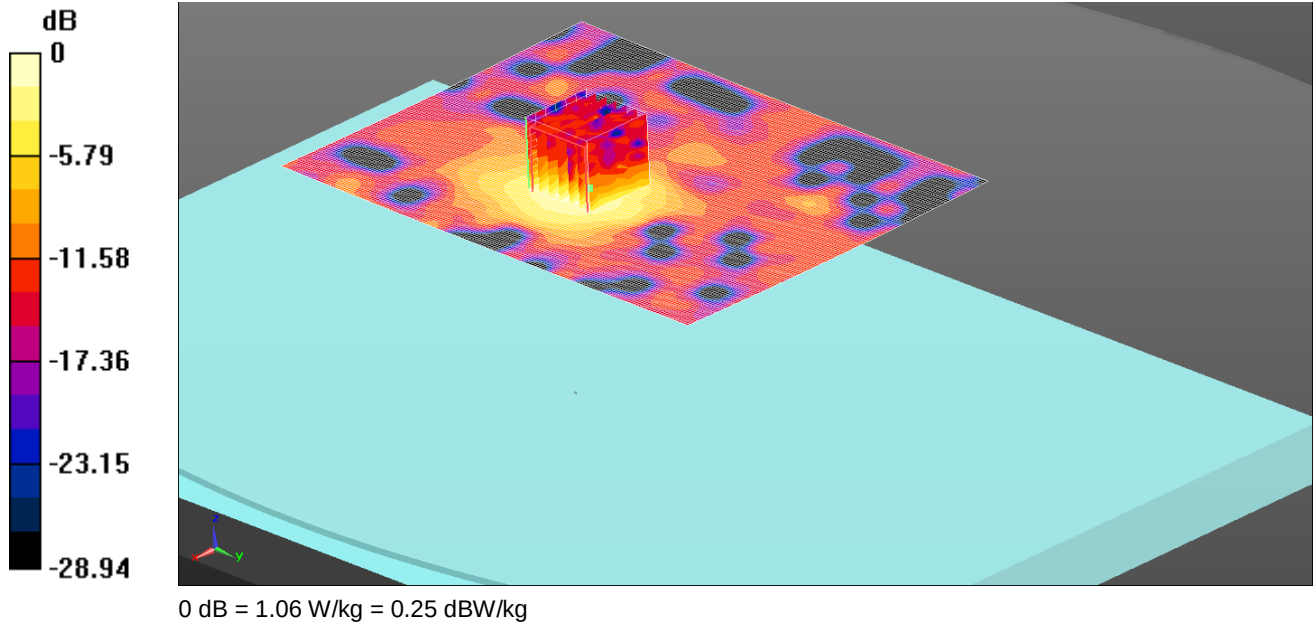
Peak SAR (extrapolated) = 3.08 W/kg

SAR(1 g) = 0.840 W/kg; SAR(10 g) = 0.300 W/kg

Maximum value of SAR (measured) = 1.56 W/kg

SAR/020: Back WLAN 5 GHz 802.11 HT40 SISO Ant WF3 CH46
Date: 07/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



Communication System: UID 0, WLAN 802.11 (0); Frequency: 5230 MHz; Duty Cycle: 1:1
Medium: 5250/5600/5750 MHz MSL Medium parameters used (interpolated): $f = 5230$ MHz; $\sigma = 5.241$ S/m; $\epsilon_r = 50.126$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3994; ConvF(4.38, 4.38, 4.38); Calibrated: 21/03/2016;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1438; Calibrated: 25/04/2016
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2/Area Scan (121x161x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.999 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 13.88 V/m; Power Drift = -0.12 dB

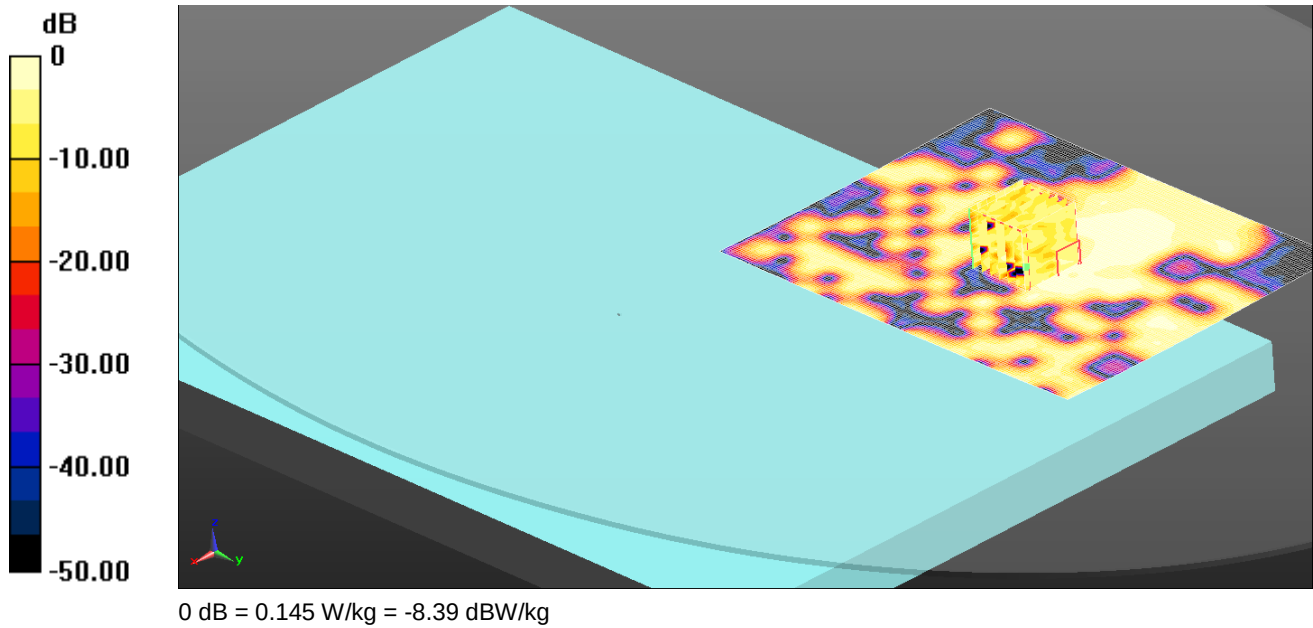
Peak SAR (extrapolated) = 2.02 W/kg

SAR(1 g) = 0.566 W/kg; SAR(10 g) = 0.204 W/kg

Maximum value of SAR (measured) = 1.06 W/kg

SAR/021: Display WLAN 5 GHz 802.11 HT40 SISO Ant WF3 CH46
Date: 07/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



Communication System: UID 0, WLAN 802.11 (0); Frequency: 5230 MHz; Duty Cycle: 1:1
Medium: 5250/5600/5750 MHz MSL Medium parameters used (interpolated): $f = 5230$ MHz; $\sigma = 5.241$ S/m; $\epsilon_r = 50.126$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3994; ConvF(4.38, 4.38, 4.38); Calibrated: 21/03/2016;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1438; Calibrated: 25/04/2016
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2/Area Scan (121x161x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.213 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.191 V/m; Power Drift = 2.03 dB

Peak SAR (extrapolated) = 0.288 W/kg

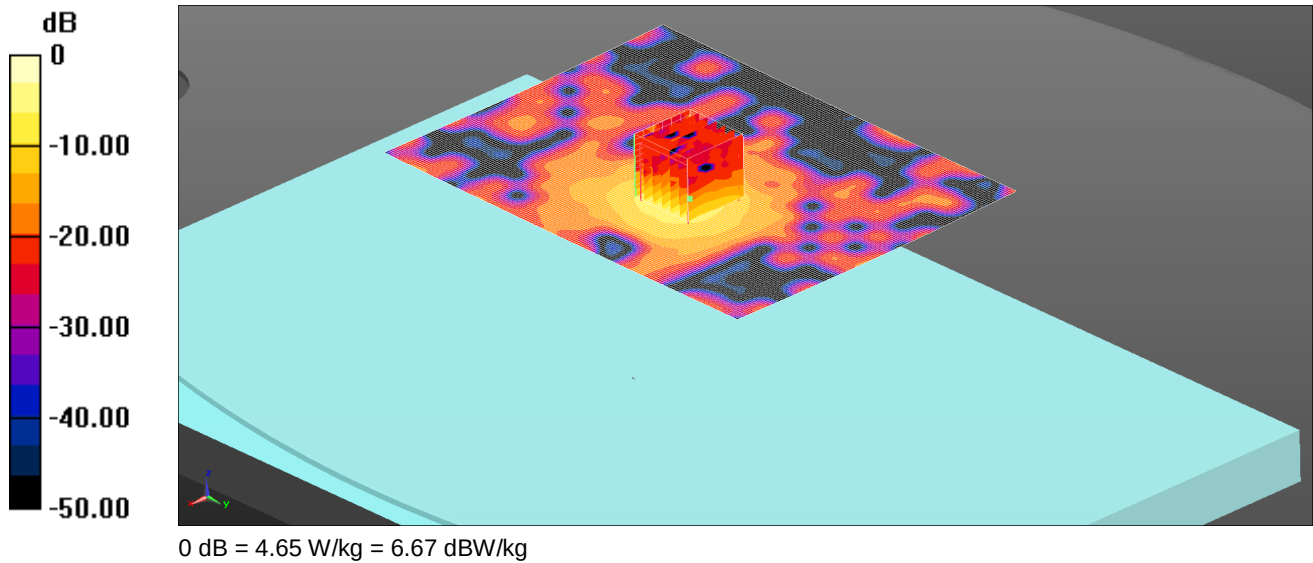
SAR(1 g) = 0.016 W/kg; SAR(10 g) = 0.00478 W/kg

Maximum value of SAR (measured) = 0.145 W/kg

Note: SAR level measured is very low as equivalent to noise floor.

SAR/022: Back WLAN 5 GHz 802.11a SISO Ant WF3 CH48
Date: 07/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



Communication System: UID 0, WLAN 802.11 (0); Frequency: 5240 MHz; Duty Cycle: 1:1

Medium: 5250/5600/5750 MHz MSL Medium parameters used (interpolated): $f = 5240$ MHz; $\sigma = 5.256$ S/m; $\epsilon_r = 50.103$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3994; ConvF(4.38, 4.38, 4.38); Calibrated: 21/03/2016;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1438; Calibrated: 25/04/2016
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2/Area Scan (121x161x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.17 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 15.81 V/m; Power Drift = -0.14 dB

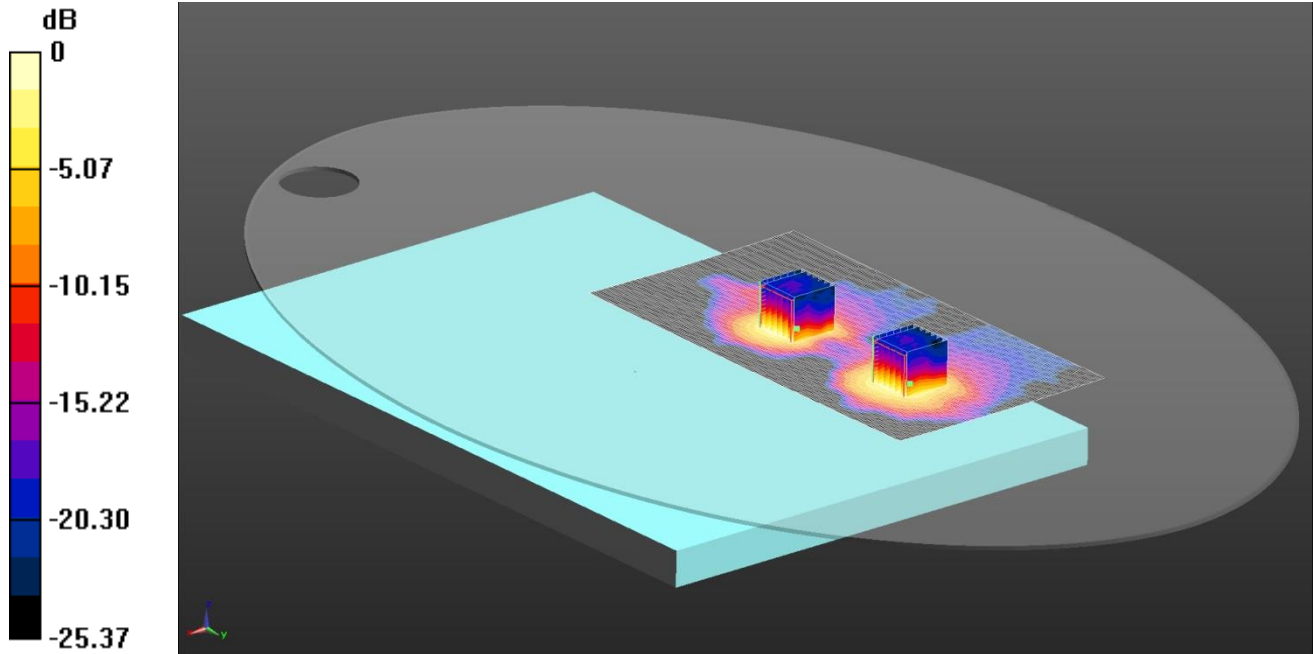
Peak SAR (extrapolated) = 4.65 W/kg

SAR(1 g) = 0.595 W/kg; SAR(10 g) = 0.212 W/kg

Maximum value of SAR (measured) = 4.65 W/kg

SAR/023: Back WLAN 5 GHz 802.11n HT40 MIMO Ant WF1 + WF2 CH46
Date: 07/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



0 dB = 1.73 W/kg = 2.38 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 5230 MHz; Duty Cycle: 1:1

Medium: 5250/5600/5750 MHz MSL Medium parameters used (interpolated): $f = 5230$ MHz; $\sigma = 5.314$ S/m; $\epsilon_r = 47.544$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3814; ConvF(4.24, 4.24, 4.24); Calibrated: 06/10/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 28/09/2015
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2/Area Scan 2 (121x221x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 2.18 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 21.56 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 3.77 W/kg

SAR(1 g) = 1.06 W/kg; SAR(10 g) = 0.378 W/kg

Maximum value of SAR (measured) = 2.00 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x12) (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 21.56 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 3.21 W/kg

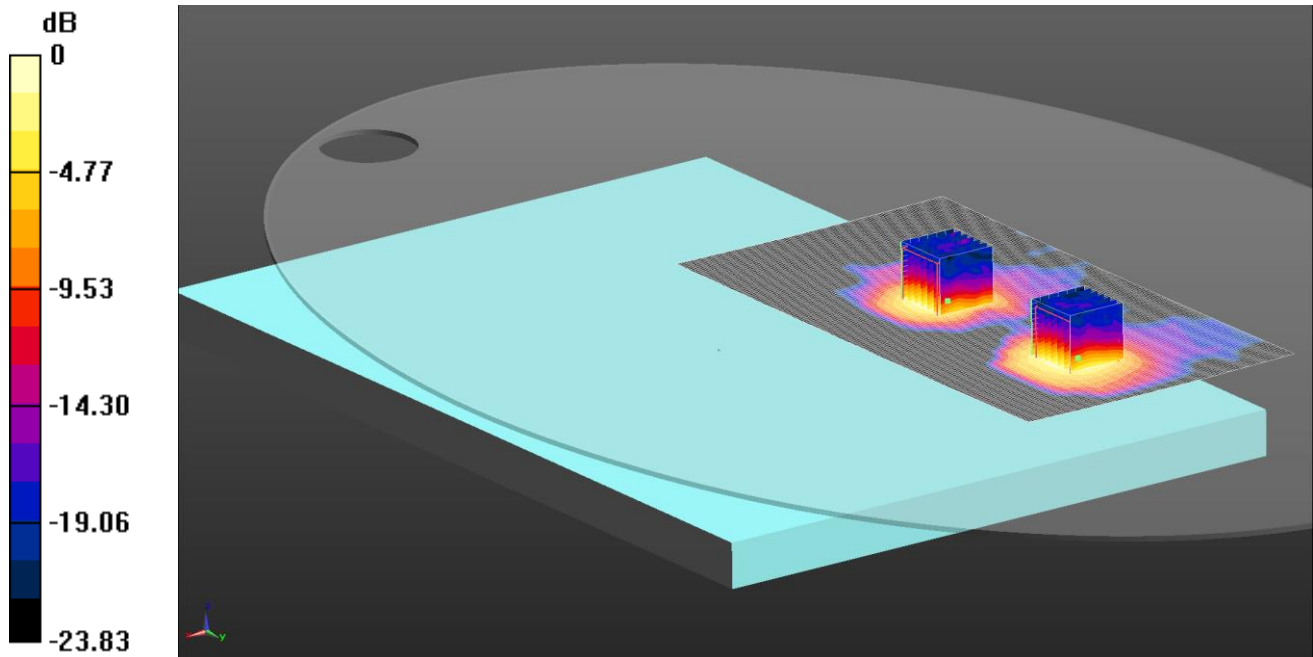
SAR(1 g) = 0.950 W/kg; SAR(10 g) = 0.360 W/kg

Maximum value of SAR (measured) = 1.73 W/kg

Note: DASY system is configured to measure any secondary maxima that are within 2dB of the measured SAR level.

SAR/024: Back WLAN 5 GHz 802.11n HT40 MIMO Ant WF1 + WF2 CH38
Date: 07/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



0 dB = 0.704 W/kg = -1.52 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 5190 MHz; Duty Cycle: 1:1
Medium: 5250/5600/5750 MHz MSL Medium parameters used (interpolated): $f = 5190$ MHz; $\sigma = 5.253$ S/m; $\epsilon_r = 47.633$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3814; ConvF(4.24, 4.24, 4.24); Calibrated: 06/10/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 28/09/2015
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2/Area Scan 2 (121x221x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.751 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 12.54 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.45 W/kg

SAR(1 g) = 0.410 W/kg; SAR(10 g) = 0.147 W/kg

Maximum value of SAR (measured) = 0.781 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x12) (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 12.54 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.27 W/kg

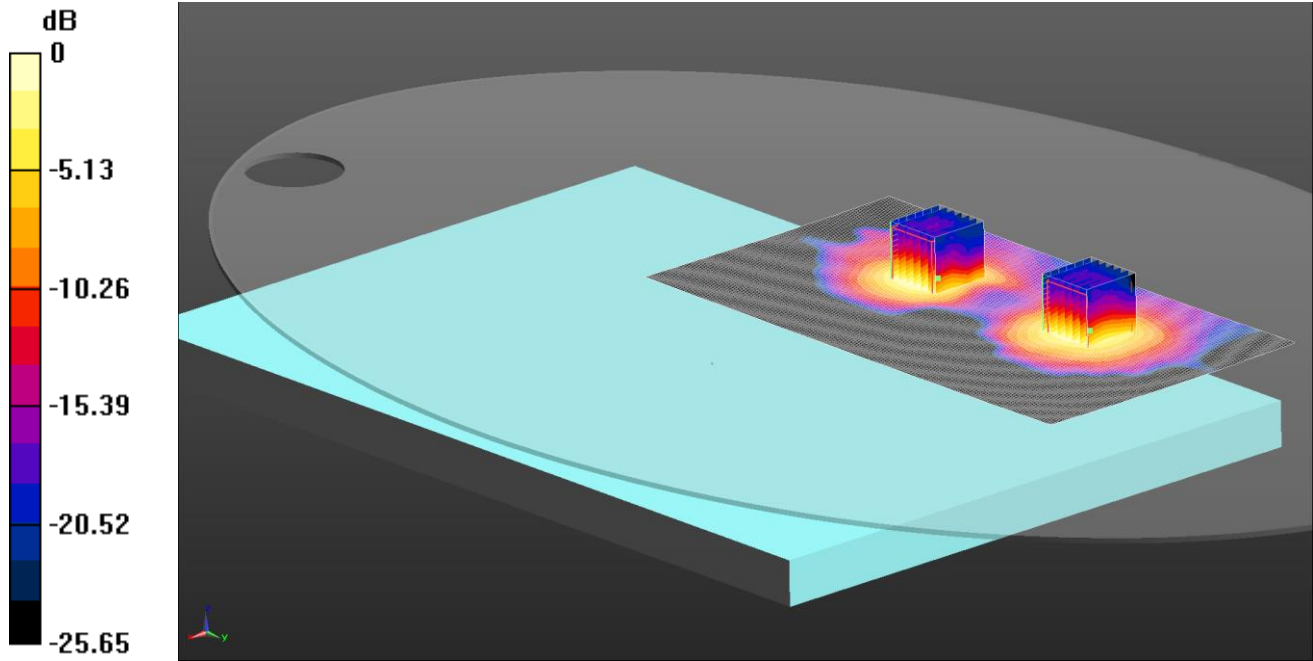
SAR(1 g) = 0.381 W/kg; SAR(10 g) = 0.145 W/kg

Maximum value of SAR (measured) = 0.704 W/kg

Note: DASY system is configured to measure any secondary maxima that are within 2dB of the measured SAR level.

SAR/025: Back WLAN 5 GHz 802.11n HT20 MIMO Ant WF1 + WF2 CH36
Date: 08/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



0 dB = 1.43 W/kg = 1.55 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 5180 MHz; Duty Cycle: 1:1
Medium: 5250/5600/5750 MHz MSL Medium parameters used (interpolated): $f = 5180$ MHz; $\sigma = 5.238$ S/m; $\epsilon_r = 47.652$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3814; ConvF(4.24, 4.24, 4.24); Calibrated: 06/10/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 28/09/2015
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2/Area Scan 2 (121x221x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.90 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 19.42 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 3.30 W/kg

SAR(1 g) = 0.967 W/kg; SAR(10 g) = 0.350 W/kg

Maximum value of SAR (measured) = 1.79 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x12) (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 19.42 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 2.60 W/kg

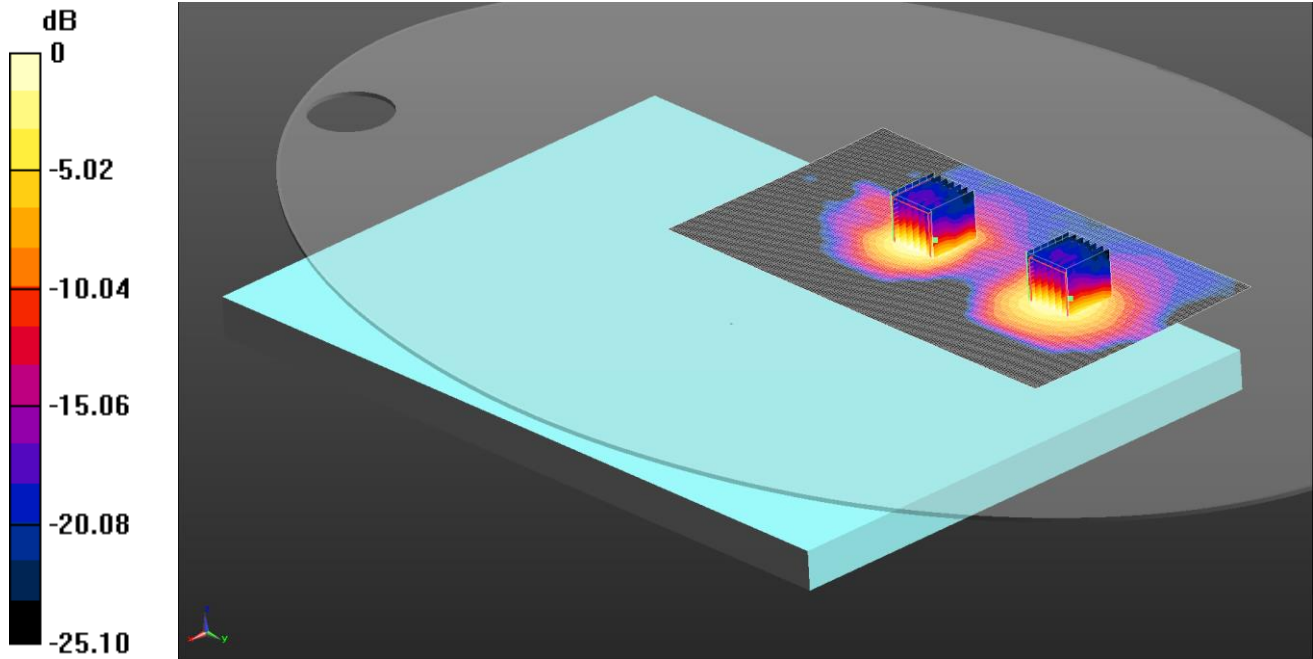
SAR(1 g) = 0.793 W/kg; SAR(10 g) = 0.307 W/kg

Maximum value of SAR (measured) = 1.43 W/kg

Note: DASY system is configured to measure any secondary maxima that are within 2dB of the measured SAR level.

SAR/026: Back WLAN 5 GHz 802.11n HT20 MIMO Ant WF1 + WF2 CH44
Date: 08/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



0 dB = 1.61 W/kg = 2.07 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 5220 MHz; Duty Cycle: 1:1
Medium: 5250/5600/5750 MHz MSL Medium parameters used (interpolated): $f = 5220$ MHz; $\sigma = 5.299$ S/m; $\epsilon_r = 47.568$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3814; ConvF(4.24, 4.24, 4.24); Calibrated: 06/10/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 28/09/2015
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2/Area Scan 2 (121x221x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 2.01 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 19.42 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 3.56 W/kg

SAR(1 g) = 1.05 W/kg; SAR(10 g) = 0.372 W/kg

Maximum value of SAR (measured) = 1.95 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x12) (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 19.42 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 2.91 W/kg

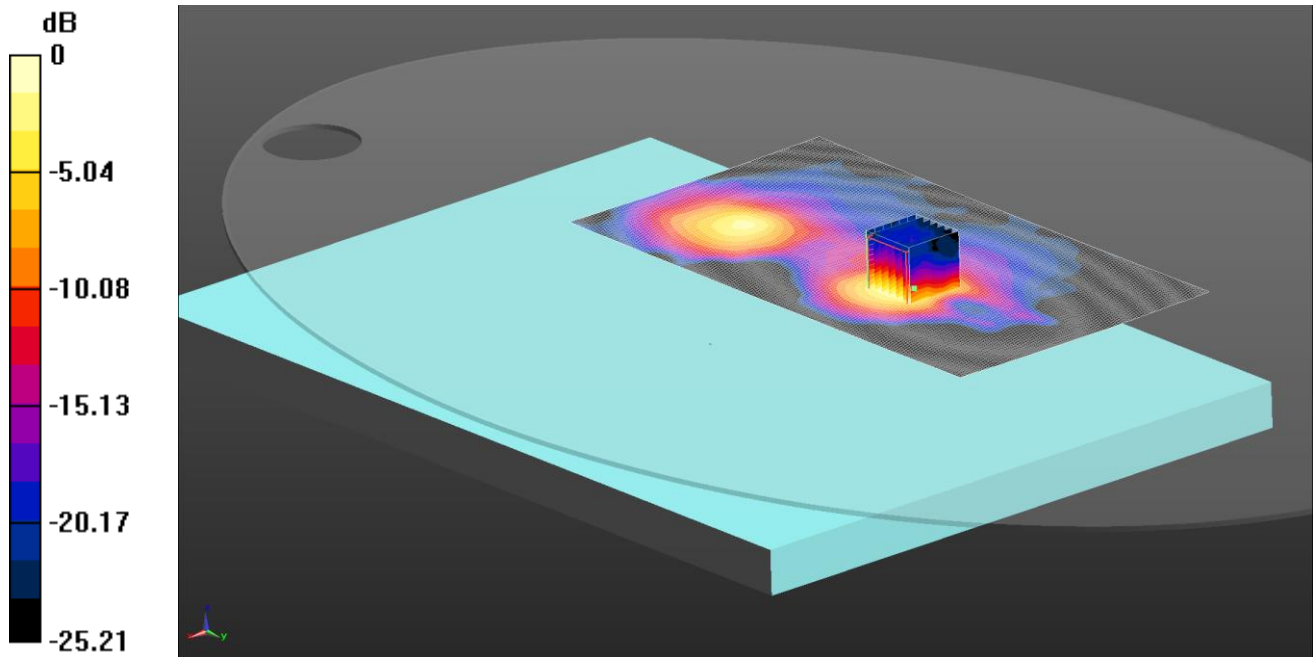
SAR(1 g) = 0.878 W/kg; SAR(10 g) = 0.323 W/kg

Maximum value of SAR (measured) = 1.61 W/kg

Note: DASY system is configured to measure any secondary maxima that are within 2dB of the measured SAR level.

SAR/027: Back WLAN 5 GHz 802.11n HT40 MIMO Ant WF2 + WF3 CH46
Date: 07/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



0 dB = 2.34 W/kg = 3.69 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 5230 MHz; Duty Cycle: 1:1

Medium: 5250/5600/5750 MHz MSL Medium parameters used (interpolated): $f = 5230$ MHz; $\sigma = 5.314$ S/m; $\epsilon_r = 47.544$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3814; ConvF(4.24, 4.24, 4.24); Calibrated: 06/10/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 28/09/2015
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx/Area Scan 2 (121x221x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 2.41 W/kg

Configuration/Back - Bodyworn - PBx/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 18.90 V/m; Power Drift = -0.06 dB

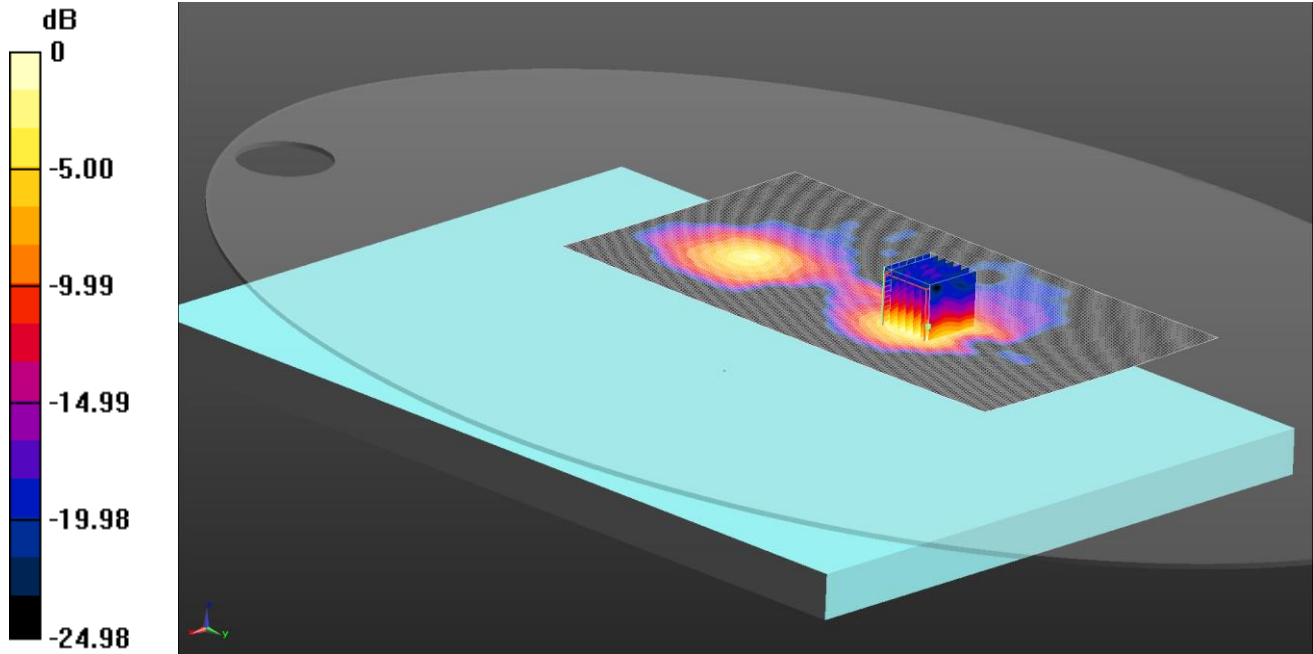
Peak SAR (extrapolated) = 4.21 W/kg

SAR(1 g) = 1.19 W/kg; SAR(10 g) = 0.426 W/kg

Maximum value of SAR (measured) = 2.34 W/kg

SAR/028: Back WLAN 5 GHz 802.11n HT40 MIMO Ant WF2 + WF3 CH38
Date: 07/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



0 dB = 0.905 W/kg = -0.43 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 5190 MHz; Duty Cycle: 1:1

Medium: 5250/5600/5750 MHz MSL Medium parameters used (interpolated): $f = 5190$ MHz; $\sigma = 5.253$ S/m; $\epsilon_r = 47.633$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3814; ConvF(4.24, 4.24, 4.24); Calibrated: 06/10/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 28/09/2015
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx/Area Scan 2 (121x221x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.862 W/kg

Configuration/Back - Bodyworn - PBx/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 14.66 V/m; Power Drift = -0.05 dB

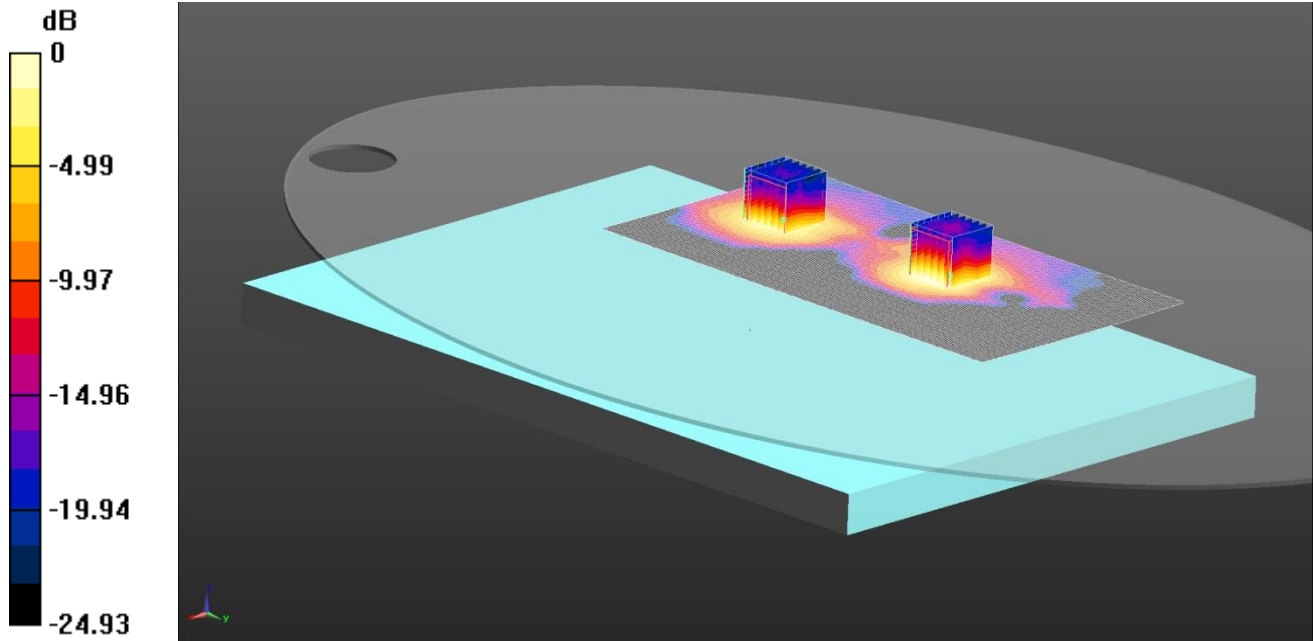
Peak SAR (extrapolated) = 1.69 W/kg

SAR(1 g) = 0.488 W/kg; SAR(10 g) = 0.175 W/kg

Maximum value of SAR (measured) = 0.905 W/kg

SAR/029: Back WLAN 5 GHz 802.11n HT20 MIMO Ant WF2 + WF3 CH36
Date: 08/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



0 dB = 0.972 W/kg = -0.12 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 5180 MHz; Duty Cycle: 1:1

Medium: 5250/5600/5750 MHz MSL Medium parameters used (interpolated): $f = 5180$ MHz; $\sigma = 5.238$ S/m; $\epsilon_r = 47.652$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3814; ConvF(4.24, 4.24, 4.24); Calibrated: 06/10/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 28/09/2015
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx/Area Scan 2 (121x221x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.49 W/kg

Configuration/Back - Bodyworn - PBx/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 18.65 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 2.99 W/kg

SAR(1 g) = 0.878 W/kg; SAR(10 g) = 0.318 W/kg

Maximum value of SAR (measured) = 1.61 W/kg

Configuration/Back - Bodyworn - PBx/Zoom Scan (7x7x12) (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 18.65 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.76 W/kg

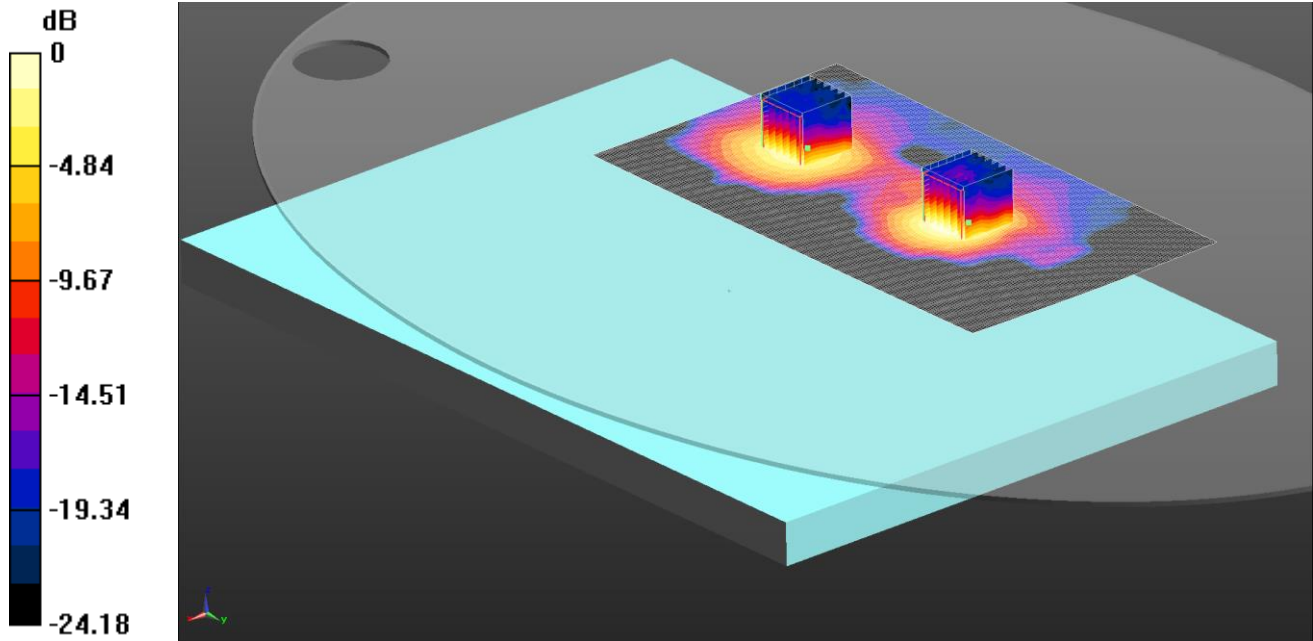
SAR(1 g) = 0.532 W/kg; SAR(10 g) = 0.204 W/kg

Maximum value of SAR (measured) = 0.972 W/kg

Note: DASY system is configured to measure any secondary maxima that are within 2dB of the measured SAR level.

SAR/030: Back WLAN 5 GHz 802.11n HT20 MIMO Ant WF2 + WF3 CH44
Date: 08/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



0 dB = 1.23 W/kg = 0.90 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 5220 MHz; Duty Cycle: 1:1

Medium: 5250/5600/5750 MHz MSL Medium parameters used (interpolated): $f = 5220$ MHz; $\sigma = 5.299$ S/m; $\epsilon_r = 47.568$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3814; ConvF(4.24, 4.24, 4.24); Calibrated: 06/10/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 28/09/2015
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx/Area Scan 2 (121x221x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.78 W/kg

Configuration/Back - Bodyworn - PBx/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 14.80 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 3.38 W/kg

SAR(1 g) = 0.987 W/kg; SAR(10 g) = 0.354 W/kg

Maximum value of SAR (measured) = 1.86 W/kg

Configuration/Back - Bodyworn - PBx/Zoom Scan (7x7x12) (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 14.80 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 2.22 W/kg

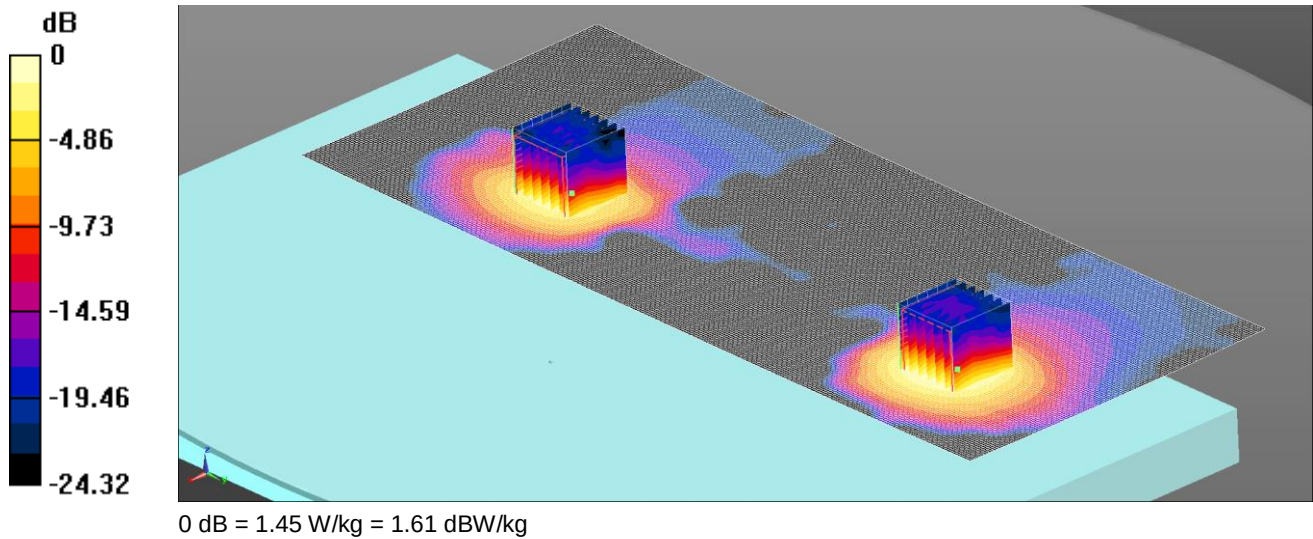
SAR(1 g) = 0.661 W/kg; SAR(10 g) = 0.250 W/kg

Maximum value of SAR (measured) = 1.23 W/kg

Note: DASY system is configured to measure any secondary maxima that are within 2dB of the measured SAR level.

SAR/031: Back WLAN 5 GHz 802.11n HT40 MIMO WF1 + WF3 CH46
Date: 07/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



Communication System: UID 0, WLAN 802.11 (0); Frequency: 5230 MHz; Duty Cycle: 1:1
Medium: 5250/5600/5750 MHz MSL Medium parameters used (interpolated): $f = 5230$ MHz; $\sigma = 5.314$ S/m; $\epsilon_r = 47.544$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3814; ConvF(4.24, 4.24, 4.24); Calibrated: 06/10/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 28/09/2015
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2 2/Area Scan 2 (121x301x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 1.84 W/kg

Configuration/Back - Bodyworn - PBx 2 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 18.53 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 3.51 W/kg

SAR(1 g) = 1.04 W/kg; SAR(10 g) = 0.389 W/kg

Maximum value of SAR (measured) = 1.93 W/kg

Configuration/Back - Bodyworn - PBx 2 2/Zoom Scan (7x7x12) (7x7x12)/Cube 1: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 18.53 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 2.71 W/kg

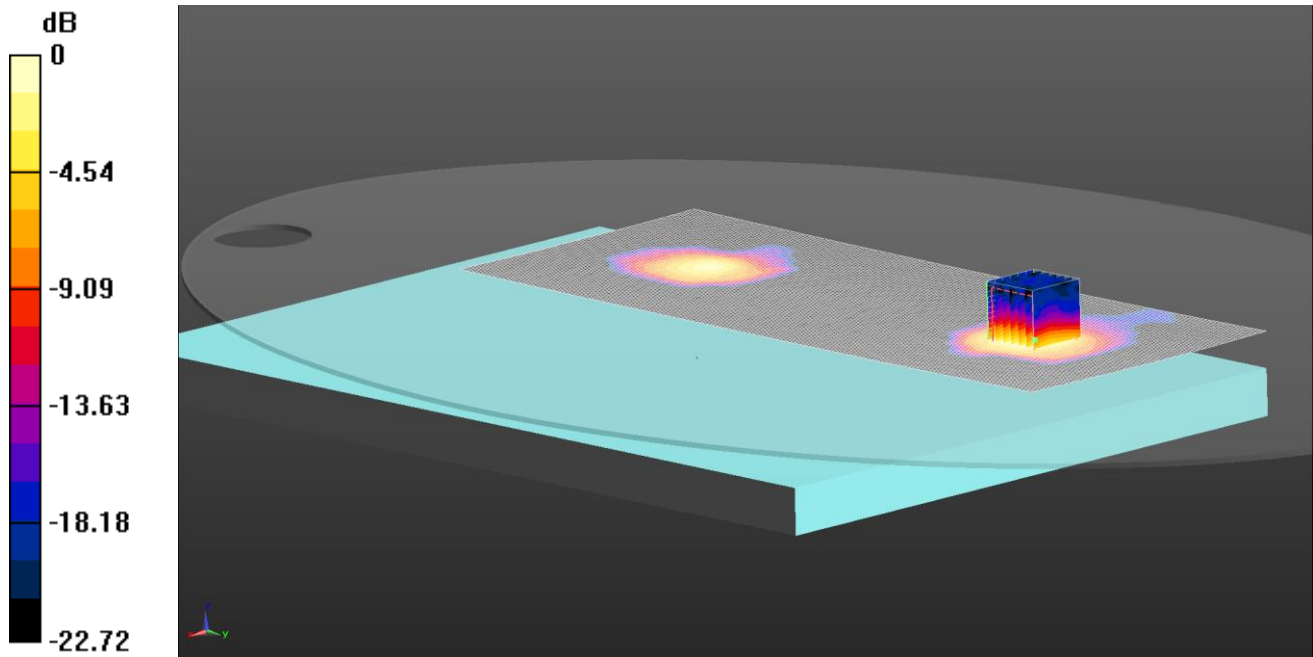
SAR(1 g) = 0.785 W/kg; SAR(10 g) = 0.295 W/kg

Maximum value of SAR (measured) = 1.45 W/kg

Note: DASY system is configured to measure any secondary maxima that are within 2dB of the measured SAR level.

SAR/032: Back WLAN 5 GHz 802.11n HT40 MIMO WF1 + WF3 CH38
Date: 08/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



0 dB = 0.679 W/kg = -1.68 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 5190 MHz; Duty Cycle: 1:1

Medium: 5250/5600/5750 MHz MSL Medium parameters used (interpolated): $f = 5190$ MHz; $\sigma = 5.253$ S/m; $\epsilon_r = 47.633$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3814; ConvF(4.24, 4.24, 4.24); Calibrated: 06/10/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 28/09/2015
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2 2/Area Scan 2 (121x301x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.663 W/kg

Configuration/Back - Bodyworn - PBx 2 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 12.43 V/m; Power Drift = -0.00 dB

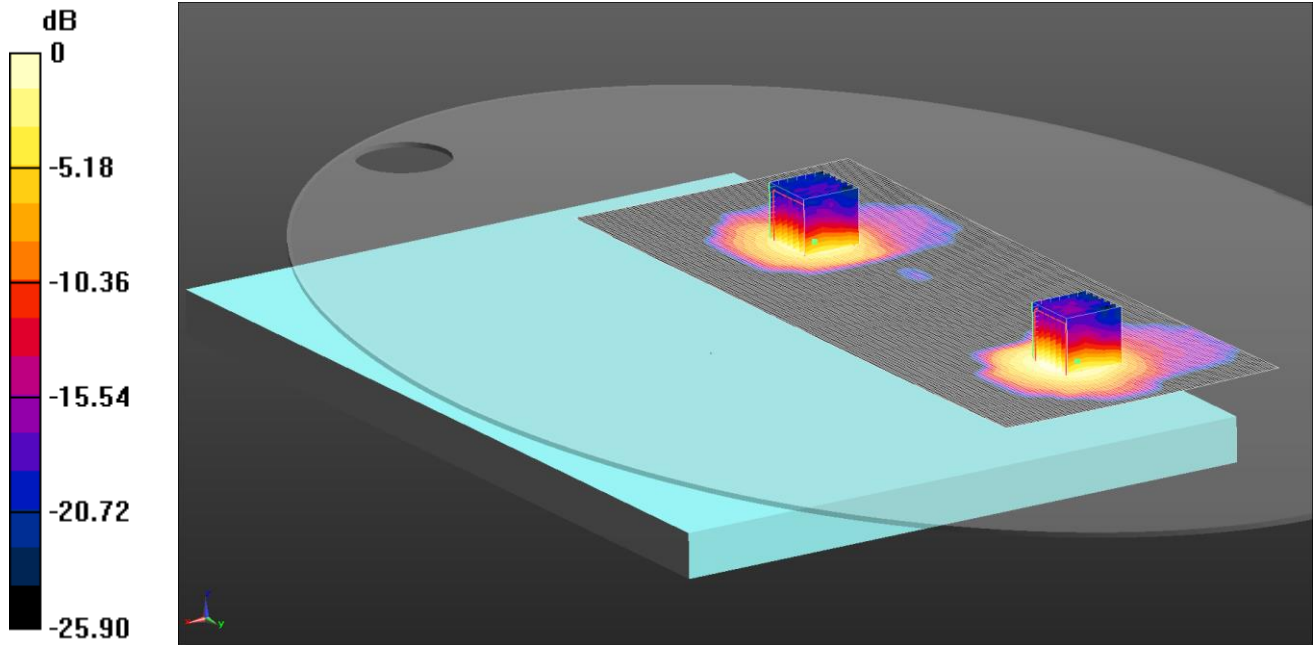
Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.364 W/kg; SAR(10 g) = 0.135 W/kg

Maximum value of SAR (measured) = 0.679 W/kg

SAR/033: Back WLAN 5 GHz 802.11n HT20 MIMO WF1 + WF3 CH36
Date: 09/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



0 dB = 0.972 W/kg = -0.12 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 5180 MHz; Duty Cycle: 1:1
Medium: 5250/5600/5750 MHz MSL Medium parameters used (interpolated): $f = 5180$ MHz; $\sigma = 5.238$ S/m; $\epsilon_r = 47.652$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
DASY Configuration:
- Probe: EX3DV4 - SN3814; ConvF(4.24, 4.24, 4.24); Calibrated: 06/10/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 28/09/2015
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2 2/Area Scan 2 (121x301x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.28 W/kg

Configuration/Back - Bodyworn - PBx 2 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 14.99 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 2.48 W/kg

SAR(1 g) = 0.760 W/kg; SAR(10 g) = 0.286 W/kg

Maximum value of SAR (measured) = 1.39 W/kg

Configuration/Back - Bodyworn - PBx 2 2/Zoom Scan (7x7x12) (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 14.99 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.82 W/kg

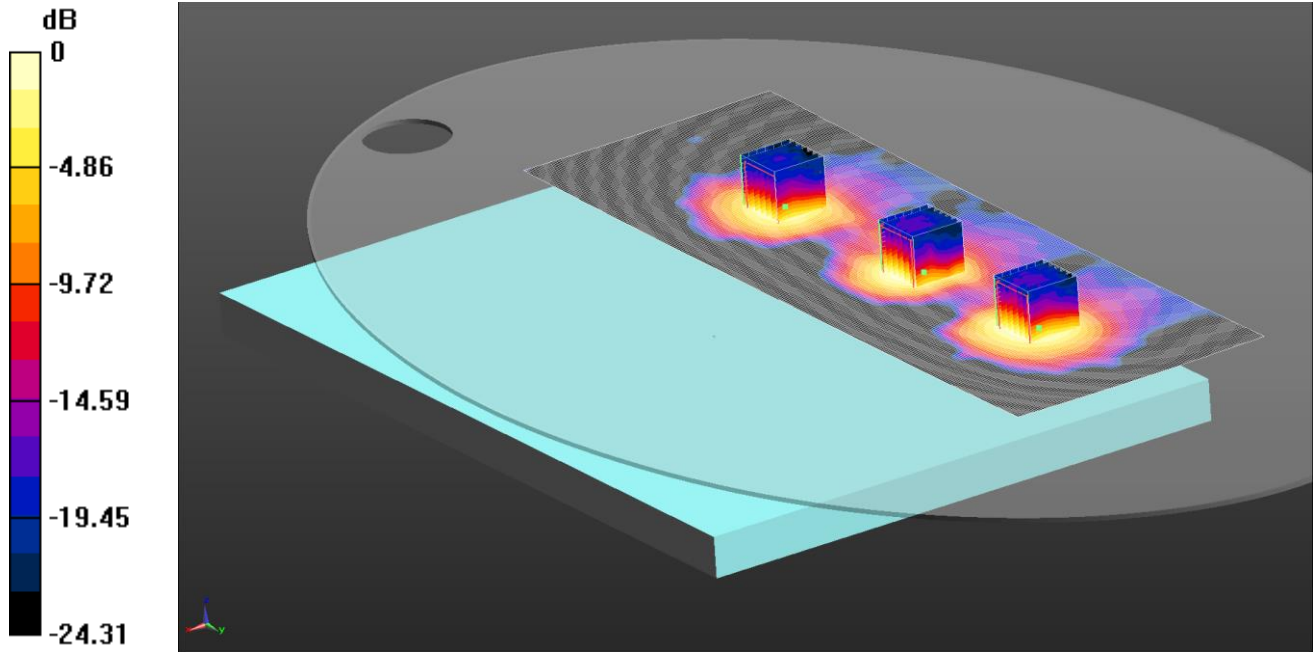
SAR(1 g) = 0.536 W/kg; SAR(10 g) = 0.204 W/kg

Maximum value of SAR (measured) = 0.972 W/kg

Note: DASY system is configured to measure any secondary maxima that are within 2dB of the measured SAR level.

SAR/034: Back WLAN 5 GHz 802.11n HT40 MIMO Ant WF1 + WF2 + WF3 CH46
Date: 08/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



0 dB = 1.17 W/kg = 0.68 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 5230 MHz; Duty Cycle: 1:1

Medium: 5250/5600/5750 MHz MSL Medium parameters used (interpolated): $f = 5230$ MHz; $\sigma = 5.314$ S/m; $\epsilon_r = 47.544$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3814; ConvF(4.24, 4.24, 4.24); Calibrated: 06/10/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 28/09/2015
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2/Area Scan 2 (121x351x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.80 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 15.01 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 3.44 W/kg

SAR(1 g) = 0.979 W/kg; SAR(10 g) = 0.350 W/kg

Maximum value of SAR (measured) = 1.85 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x12) (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 15.01 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 2.94 W/kg

SAR(1 g) = 0.865 W/kg; SAR(10 g) = 0.328 W/kg

Maximum value of SAR (measured) = 1.58 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x12) (7x7x12)/Cube 2: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 15.01 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 2.26 W/kg

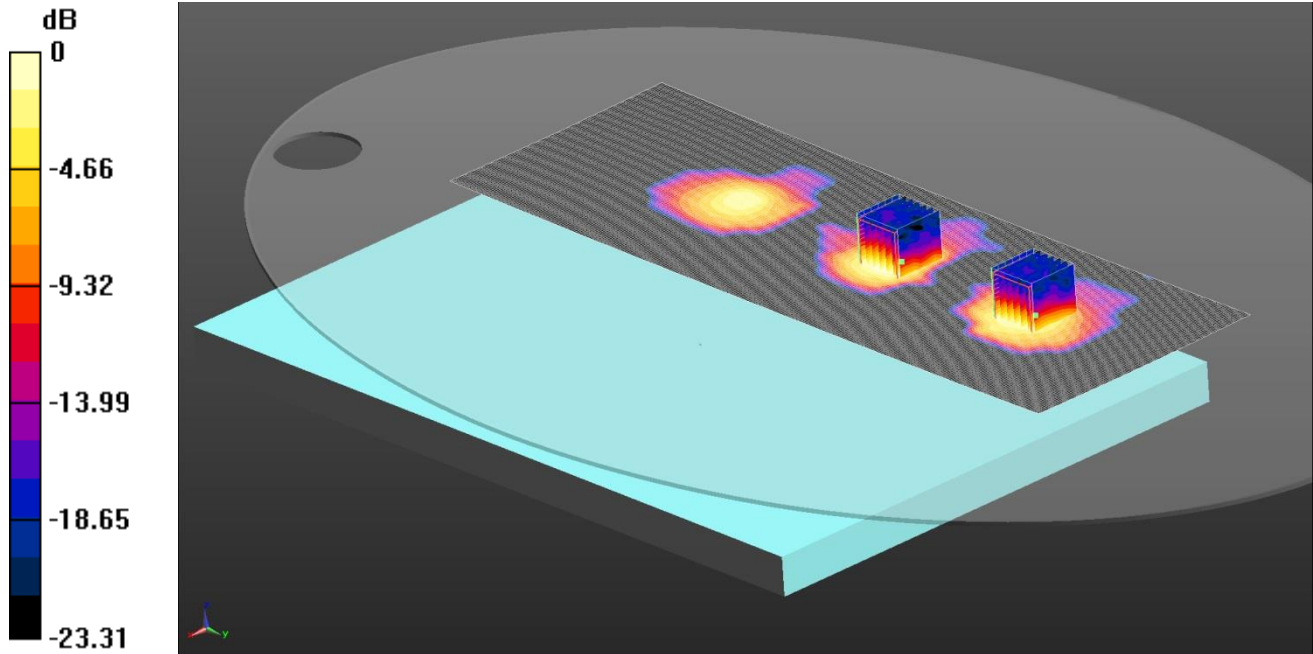
SAR(1 g) = 0.657 W/kg; SAR(10 g) = 0.250 W/kg

Maximum value of SAR (measured) = 1.17 W/kg

Note: DASY system is configured to measure any secondary maxima that are within 2dB of the measured SAR level.

SAR/035: Back WLAN 5 GHz 802.11n HT40 MIMO Ant WF1 + WF2 + WF3 CH38
Date: 08/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



0 dB = 0.559 W/kg = -2.53 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 5190 MHz; Duty Cycle: 1:1
Medium: 5250/5600/5750 MHz MSL Medium parameters used (interpolated): $f = 5190$ MHz; $\sigma = 5.253$ S/m; $\epsilon_r = 47.633$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3814; ConvF(4.24, 4.24, 4.24); Calibrated: 06/10/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 28/09/2015
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2/Area Scan 2 (121x351x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.756 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 11.68 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.37 W/kg

SAR(1 g) = 0.392 W/kg; SAR(10 g) = 0.138 W/kg

Maximum value of SAR (measured) = 0.756 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x12) (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 11.68 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.03 W/kg

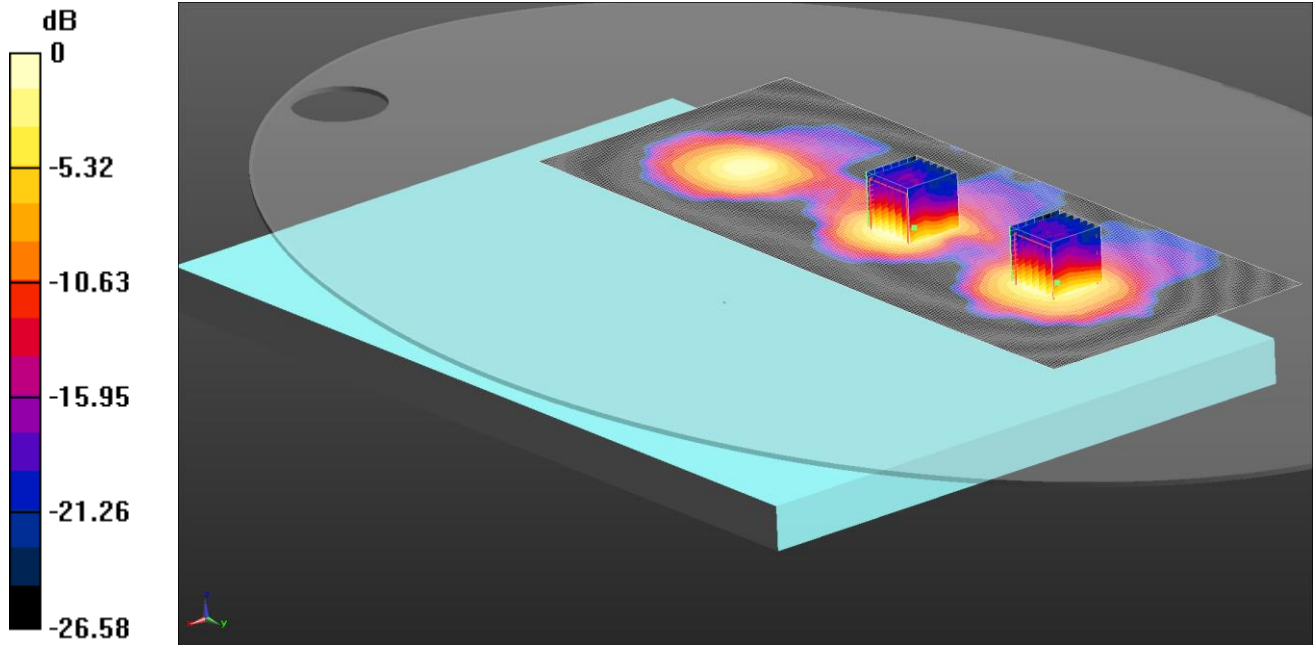
SAR(1 g) = 0.299 W/kg; SAR(10 g) = 0.110 W/kg

Maximum value of SAR (measured) = 0.559 W/kg

Note: DASY system is configured to measure any secondary maxima that are within 2dB of the measured SAR level.

SAR/036: Back WLAN 5 GHz 802.11n HT20 MIMO Ant WF1 + WF2 + WF3 CH36
Date: 09/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



0 dB = 1.46 W/kg = 1.64 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 5180 MHz; Duty Cycle: 1:1

Medium: 5250/5600/5750 MHz MSL Medium parameters used (interpolated): $f = 5180$ MHz; $\sigma = 5.238$ S/m; $\epsilon_r = 47.652$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3814; ConvF(4.24, 4.24, 4.24); Calibrated: 06/10/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 28/09/2015
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2 2/Area Scan 2 (121x301x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.90 W/kg

Configuration/Back - Bodyworn - PBx 2 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 19.99 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 3.45 W/kg

SAR(1 g) = 0.999 W/kg; SAR(10 g) = 0.352 W/kg

Maximum value of SAR (measured) = 1.87 W/kg

Configuration/Back - Bodyworn - PBx 2 2/Zoom Scan (7x7x12) (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 19.99 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 2.64 W/kg

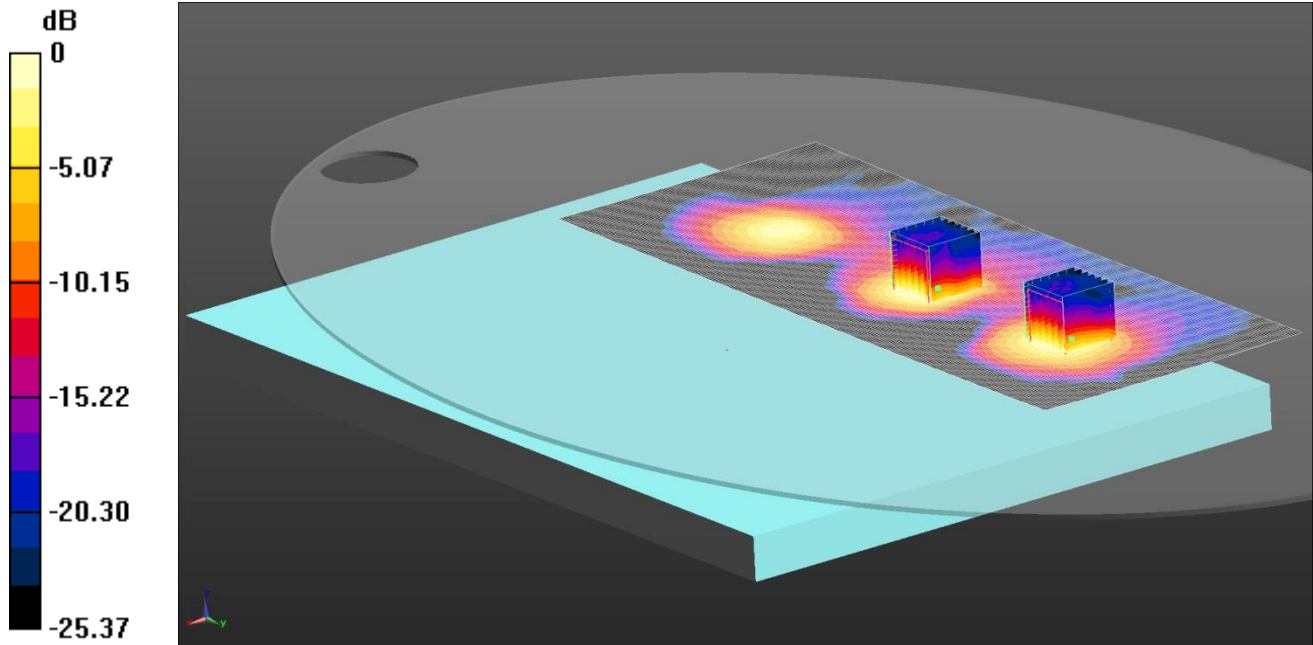
SAR(1 g) = 0.791 W/kg; SAR(10 g) = 0.299 W/kg

Maximum value of SAR (measured) = 1.46 W/kg

Note: DASY system is configured to measure any secondary maxima that are within 2dB of the measured SAR level.

SAR/037: Back WLAN 5 GHz 802.11n HT20 MIMO Ant WF1 + WF2 + WF3 CH40
Date: 09/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



0 dB = 1.46 W/kg = 1.64 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: 5250/5600/5750 MHz MSL Medium parameters used: $f = 5200$ MHz; $\sigma = 5.269$ S/m; $\epsilon_r = 47.614$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3814; ConvF(4.24, 4.24, 4.24); Calibrated: 06/10/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 28/09/2015
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2 2/Area Scan 2 (121x301x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm
Maximum value of SAR (interpolated) = 1.80 W/kg

Configuration/Back - Bodyworn - PBx 2 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm
Reference Value = 17.19 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 3.41 W/kg
SAR(1 g) = 0.970 W/kg; SAR(10 g) = 0.342 W/kg

Maximum value of SAR (measured) = 1.88 W/kg

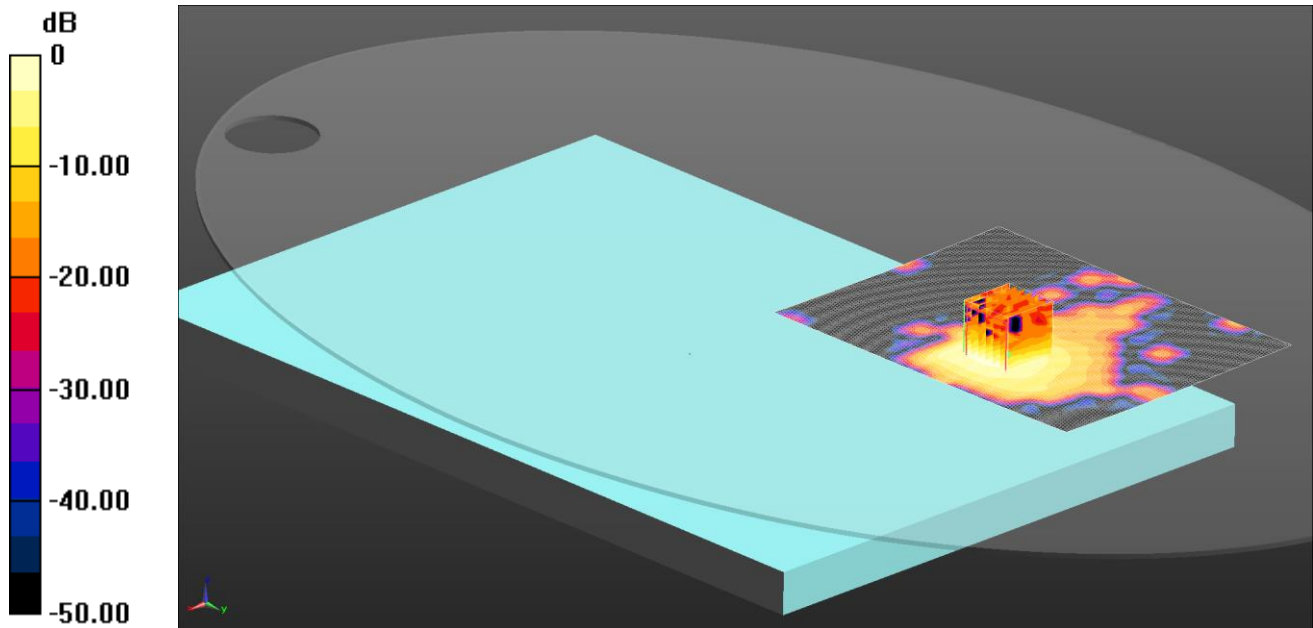
Configuration/Back - Bodyworn - PBx 2 2/Zoom Scan (7x7x12) (7x7x12)/Cube 1: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm
Reference Value = 17.19 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 2.61 W/kg
SAR(1 g) = 0.776 W/kg; SAR(10 g) = 0.286 W/kg

Maximum value of SAR (measured) = 1.46 W/kg

Note: DASY system is configured to measure any secondary maxima that are within 2dB of the measured SAR level.

SAR/038: Back WLAN 5 GHz 802.11ac VHT80 SISO Ant WF1 CH138
Date: 24/08/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



0 dB = 1.59 W/kg = 2.01 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 5690 MHz; Duty Cycle: 1:1
Medium: 5250/5600/5750 MHz MSL Medium parameters used (interpolated): $f = 5690$ MHz; $\sigma = 5.996$ S/m; $\epsilon_r = 46.511$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3994; ConvF(3.76, 3.76, 3.76); Calibrated: 21/03/2016;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1438; Calibrated: 25/04/2016
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2/Area Scan (121x161x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.52 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 17.47 V/m; Power Drift = 0.09 dB

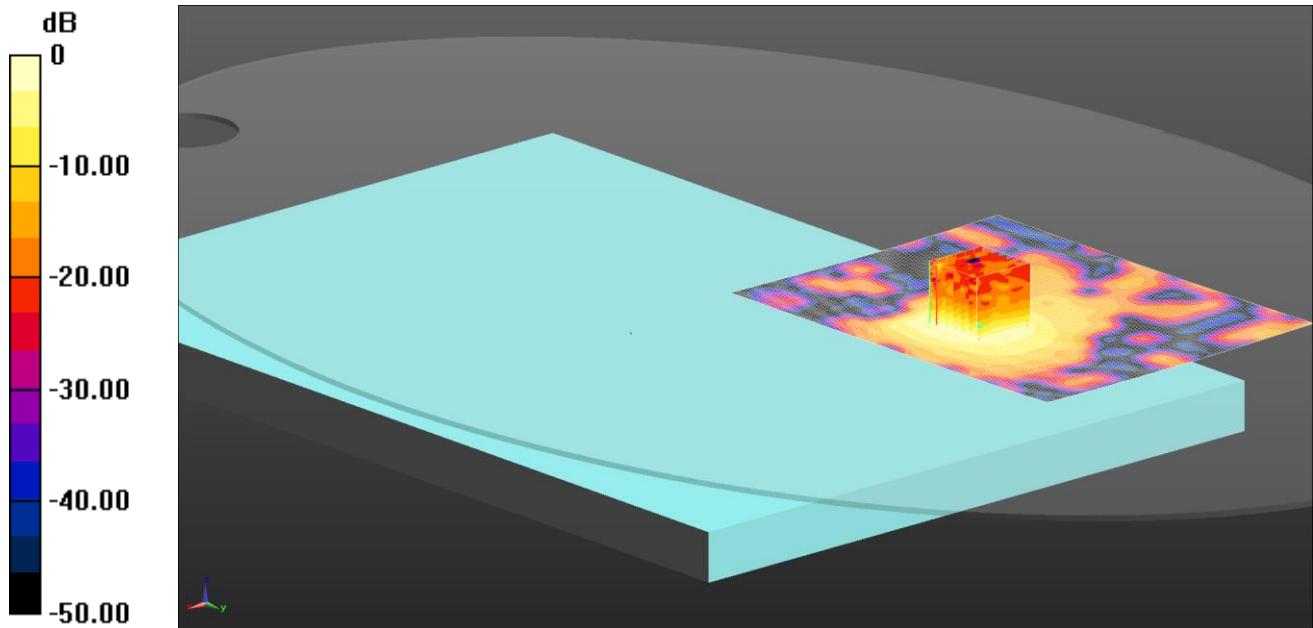
Peak SAR (extrapolated) = 3.32 W/kg

SAR(1 g) = 0.776 W/kg; SAR(10 g) = 0.277 W/kg

Maximum value of SAR (measured) = 1.59 W/kg

SAR/039: Back WLAN 5 GHz 802.11ac VHT80 SISO Ant WF1 CH106
Date: 24/08/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



0 dB = 1.65 W/kg = 2.17 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 5530 MHz; Duty Cycle: 1:1
Medium: 5250/5600/5750 MHz MSL Medium parameters used (interpolated): $f = 5530$ MHz; $\sigma = 5.751$ S/m; $\epsilon_r = 46.88$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3994; ConvF(3.76, 3.76, 3.76); Calibrated: 21/03/2016;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1438; Calibrated: 25/04/2016
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2/Area Scan (121x161x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 1.54 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 18.17 V/m; Power Drift = -0.12 dB

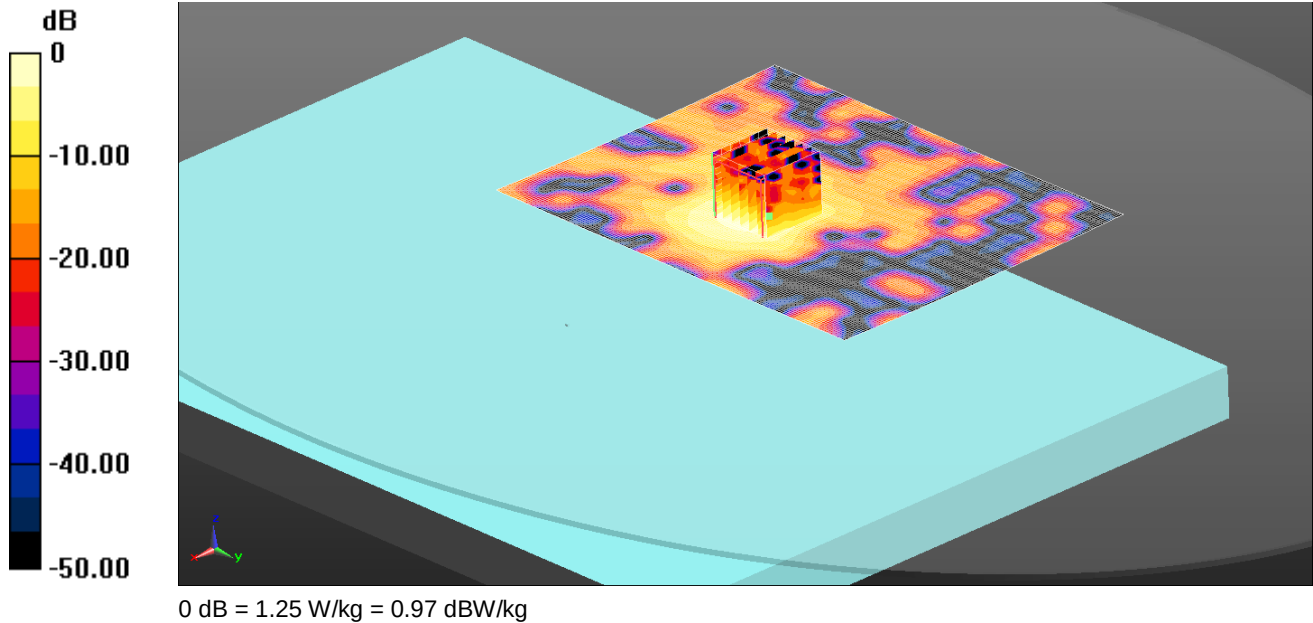
Peak SAR (extrapolated) = 3.44 W/kg

SAR(1 g) = 0.814 W/kg; SAR(10 g) = 0.292 W/kg

Maximum value of SAR (measured) = 1.65 W/kg

SAR/040: Back WLAN 5 GHz 802.11ac VHT80 SISO Ant WF2 CH106
Date: 06/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



Communication System: UID 0, WLAN 802.11 (0); Frequency: 5530 MHz; Duty Cycle: 1:1
Medium: 5250/5600/5750 MHz MSL Medium parameters used (interpolated): $f = 5530$ MHz; $\sigma = 5.715$ S/m; $\epsilon_r = 49.613$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3994; ConvF(3.76, 3.76, 3.76); Calibrated: 21/03/2016;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1438; Calibrated: 25/04/2016
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2/Area Scan (121x161x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.21 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 11.14 V/m; Power Drift = -0.02 dB

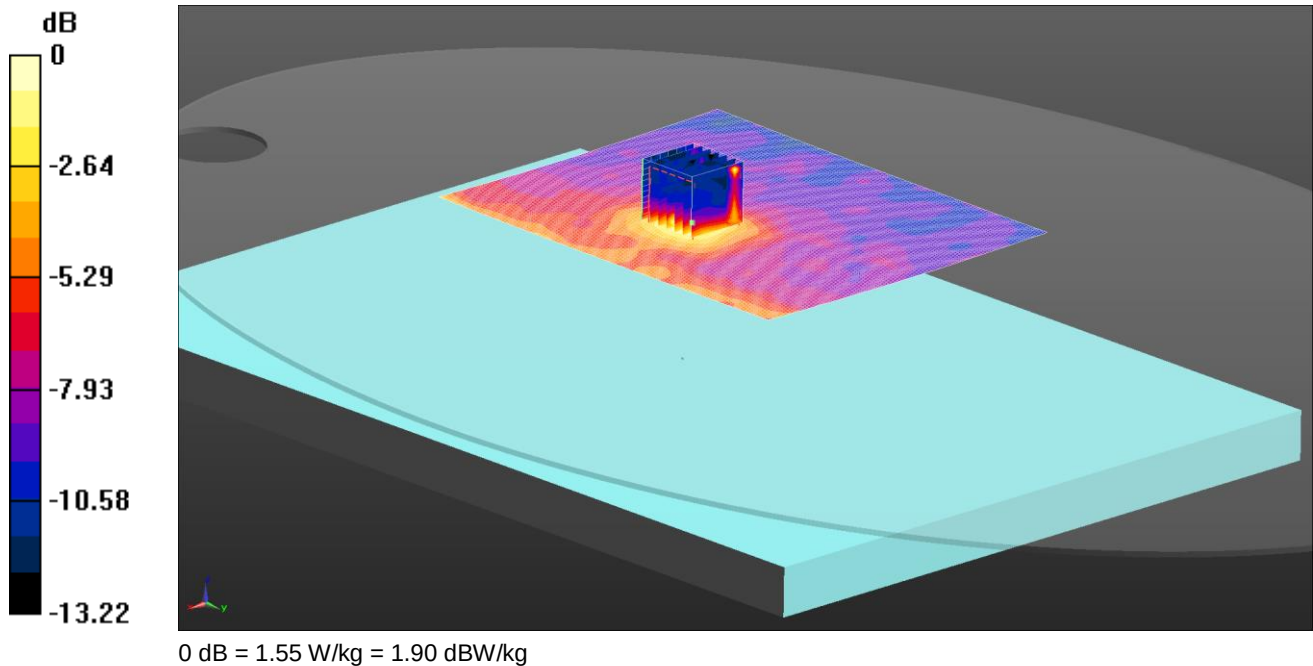
Peak SAR (extrapolated) = 2.33 W/kg

SAR(1 g) = 0.621 W/kg; SAR(10 g) = 0.210 W/kg

Maximum value of SAR (measured) = 1.25 W/kg

SAR/041: Back WLAN 5 GHz 802.11ac VHT80 SISO Ant WF3 CH106
Date: 23/08/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



Communication System: UID 0, WLAN 802.11 (0); Frequency: 5530 MHz; Duty Cycle: 1:1
Medium: 5250/5600/5750 MHz MSL Medium parameters used (interpolated): $f = 5530$ MHz; $\sigma = 5.751$ S/m; $\epsilon_r = 46.88$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3994; ConvF(3.76, 3.76, 3.76); Calibrated: 21/03/2016;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1438; Calibrated: 25/04/2016
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2/Area Scan (131x161x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.54 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 17.44 V/m; Power Drift = -0.04 dB

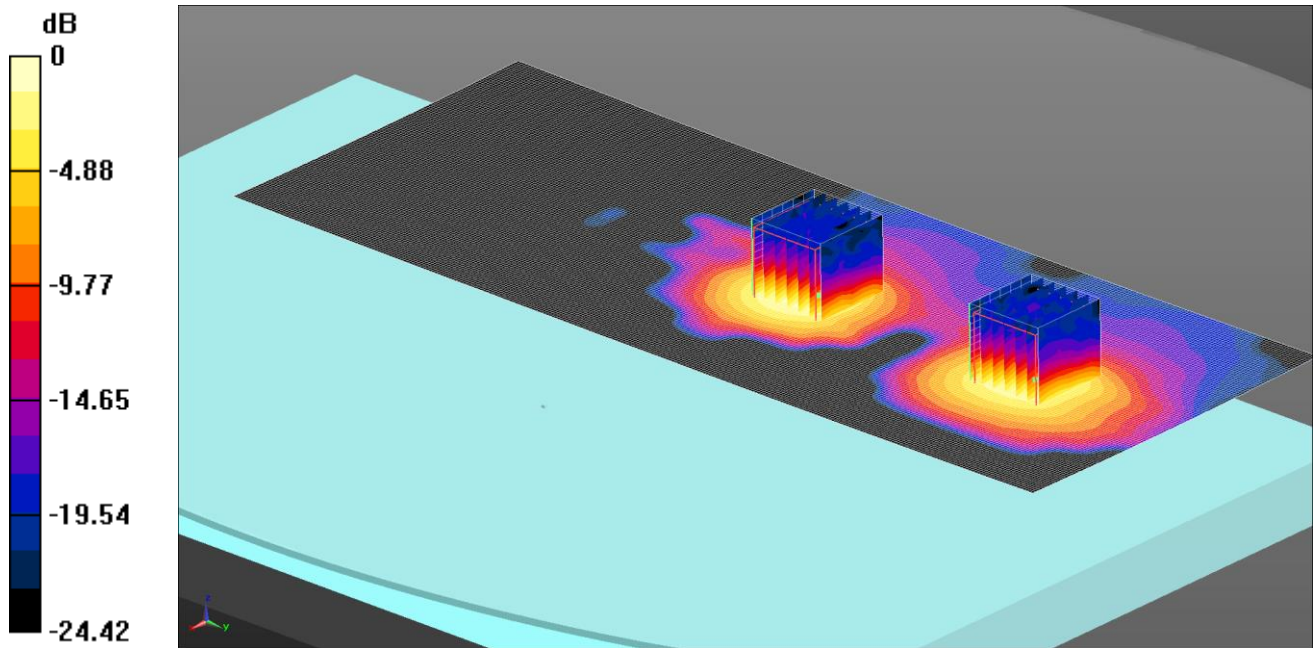
Peak SAR (extrapolated) = 3.47 W/kg

SAR(1 g) = 0.771 W/kg; SAR(10 g) = 0.265 W/kg

Maximum value of SAR (measured) = 1.55 W/kg

SAR/042: Back WLAN 5 GHz 802.11ac VHT80 MIMO Ant WF1 + WF2 CH138
Date: 12/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



0 dB = 1.37 W/kg = 1.37 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 5690 MHz; Duty Cycle: 1:1

Medium: 5250/5600/5750 MHz MSL Medium parameters used (interpolated): $f = 5690$ MHz; $\sigma = 5.981$ S/m; $\epsilon_r = 46.896$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3814; ConvF(3.81, 3.81, 3.81); Calibrated: 06/10/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 28/09/2015
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2 2 2 2/Area Scan 2 (111x281x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.39 W/kg

Configuration/Back - Bodyworn - PBx 2 2 2 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 16.70 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 2.84 W/kg

SAR(1 g) = 0.762 W/kg; SAR(10 g) = 0.273 W/kg

Maximum value of SAR (measured) = 1.51 W/kg

Configuration/Back - Bodyworn - PBx 2 2 2 2/Zoom Scan (7x7x12) (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 16.70 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 2.62 W/kg

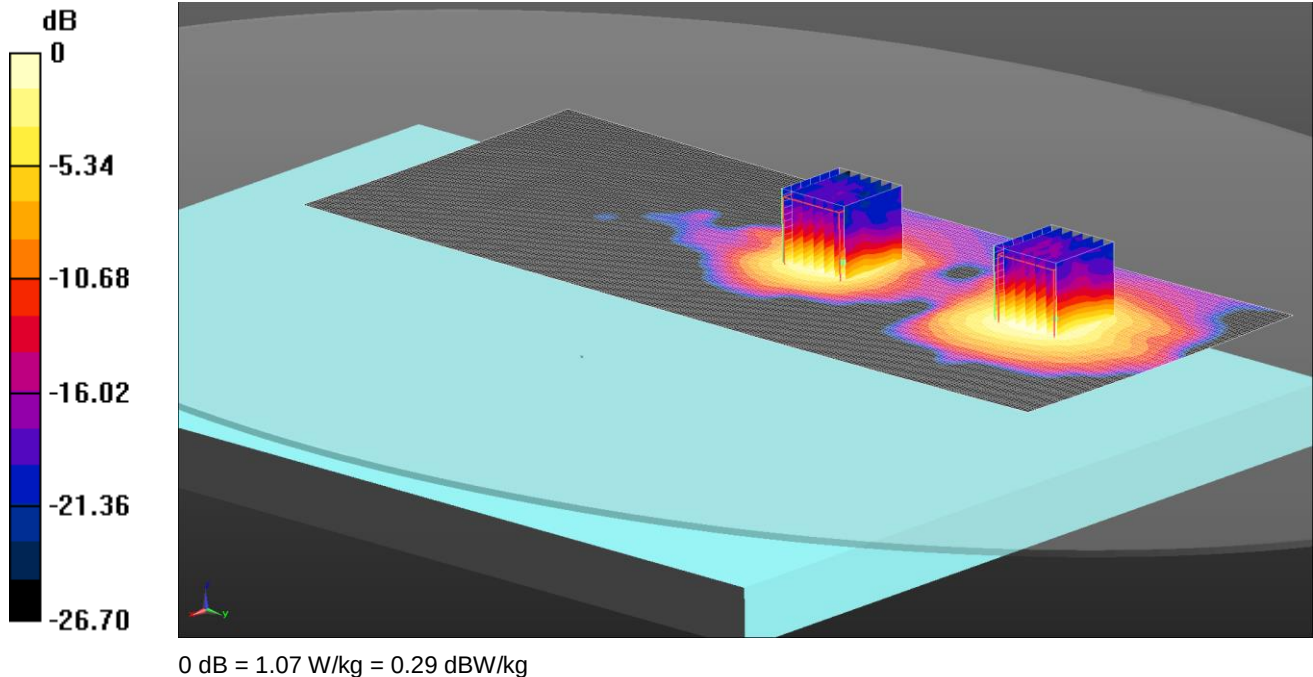
SAR(1 g) = 0.698 W/kg; SAR(10 g) = 0.256 W/kg

Maximum value of SAR (measured) = 1.37 W/kg

Note: DASY system is configured to measure any secondary maxima that are within 2dB of the measured SAR level.

SAR/043: Back WLAN 5 GHz 802.11n HT40 MIMO Ant WF1 + WF2 CH110
Date: 14/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



Communication System: UID 0, WLAN 802.11 (0); Frequency: 5550 MHz; Duty Cycle: 1:1

Medium: 5250/5600/5750 MHz MSL Medium parameters used: $f = 5550$ MHz; $\sigma = 5.761$ S/m; $\epsilon_r = 47.204$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3814; ConvF(3.81, 3.81, 3.81); Calibrated: 06/10/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 28/09/2015
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx/Area Scan 2 (111x281x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 1.38 W/kg

Configuration/Back - Bodyworn - PBx/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 15.40 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 2.65 W/kg

SAR(1 g) = 0.746 W/kg; SAR(10 g) = 0.282 W/kg

Maximum value of SAR (measured) = 1.43 W/kg

Configuration/Back - Bodyworn - PBx/Zoom Scan (7x7x12) (7x7x12)/Cube 1: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 15.40 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 2.09 W/kg

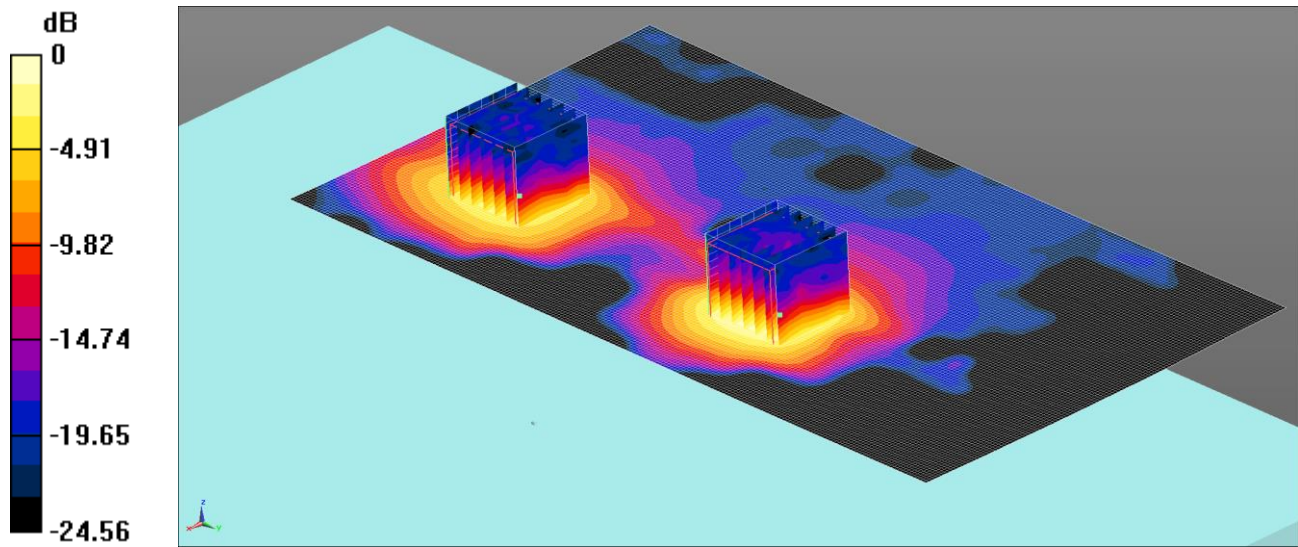
SAR(1 g) = 0.563 W/kg; SAR(10 g) = 0.205 W/kg

Maximum value of SAR (measured) = 1.07 W/kg

Note: DASY system is configured to measure any secondary maxima that are within 2dB of the measured SAR level.

SAR/044: Back WLAN 5 GHz 802.11ac VHT80 MIMO Ant WF2 + WF3 CH138
Date: 13/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



0 dB = 1.14 W/kg = 0.57 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 5690 MHz; Duty Cycle: 1:1
Medium: 5250/5600/5750 MHz MSL Medium parameters used (interpolated): $f = 5690$ MHz; $\sigma = 5.981$ S/m; $\epsilon_r = 46.896$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3814; ConvF(3.81, 3.81, 3.81); Calibrated: 06/10/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 28/09/2015
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx/Area Scan 2 2 (121x221x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 1.64 W/kg

Configuration/Back - Bodyworn - PBx/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 14.33 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 3.15 W/kg

SAR(1 g) = 0.809 W/kg; SAR(10 g) = 0.287 W/kg

Maximum value of SAR (measured) = 1.52 W/kg

Configuration/Back - Bodyworn - PBx/Zoom Scan (7x7x12) (7x7x12)/Cube 1: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 14.33 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 2.27 W/kg

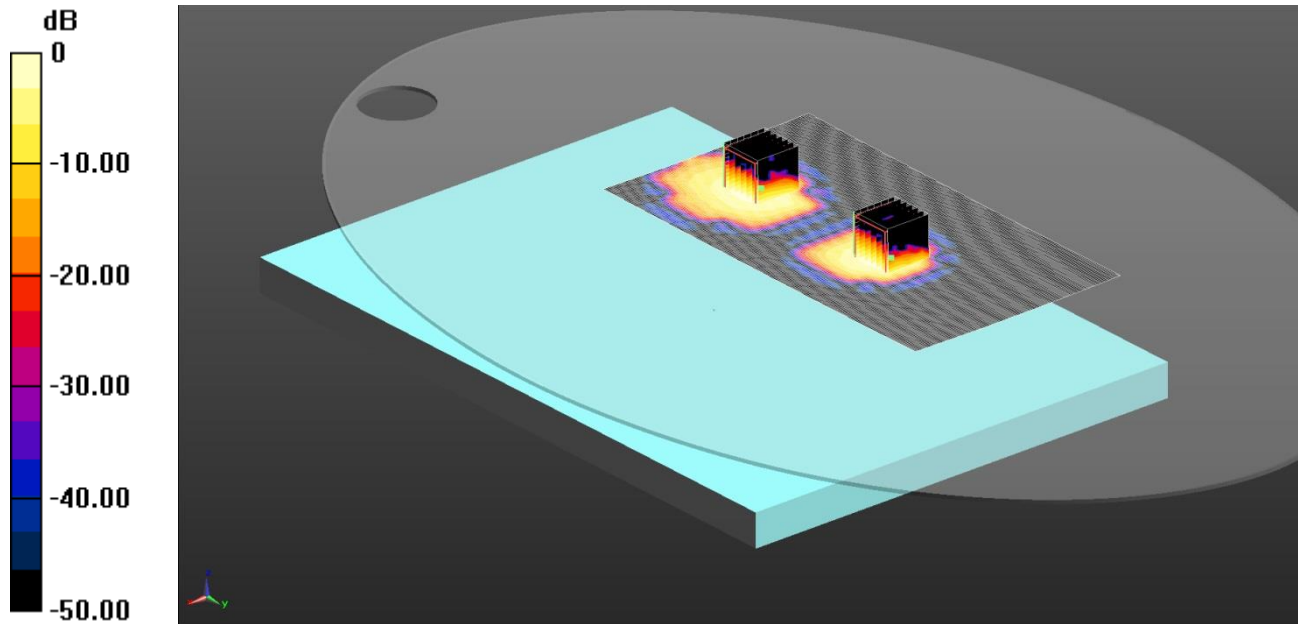
SAR(1 g) = 0.579 W/kg; SAR(10 g) = 0.211 W/kg

Maximum value of SAR (measured) = 1.14 W/kg

Note: DASY system is configured to measure any secondary maxima that are within 2dB of the measured SAR level.

SAR/045: Back WLAN 5 GHz 802.11ac VHT80 MIMO Ant WF2 + WF3 CH106
Date: 23/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



0 dB = 0.946 W/kg = -0.24 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 5610 MHz; Duty Cycle: 1:1
Medium: 5250/5600/5750 MHz MSL Medium parameters used (interpolated): $f = 5610$ MHz; $\sigma = 5.876$ S/m; $\epsilon_r = 47.239$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3995; ConvF(3.88, 3.88, 3.88); Calibrated: 26/04/2016;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1435; Calibrated: 30/05/2016
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx/Area Scan 2 2 (121x221x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.953 W/kg

Configuration/Back - Bodyworn - PBx/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 6.436 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 2.05 W/kg

SAR(1 g) = 0.482 W/kg; SAR(10 g) = 0.158 W/kg

Maximum value of SAR (measured) = 1.01 W/kg

Configuration/Back - Bodyworn - PBx/Zoom Scan (7x7x12) (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 6.436 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.95 W/kg

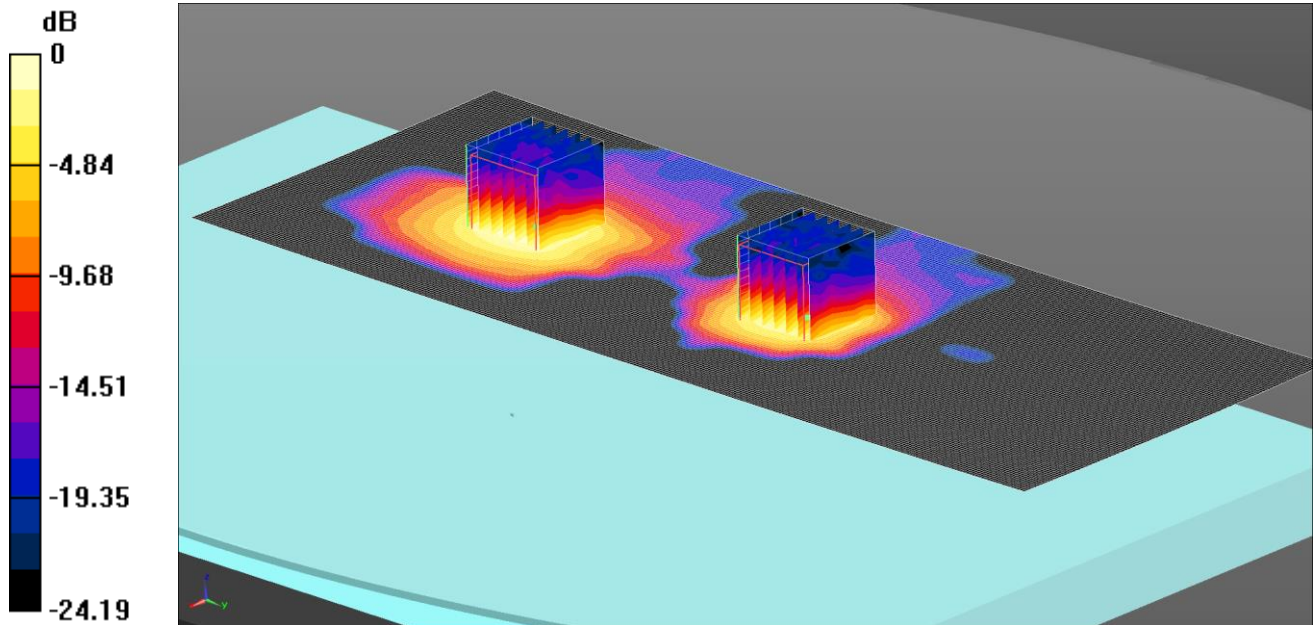
SAR(1 g) = 0.448 W/kg; SAR(10 g) = 0.139 W/kg

Maximum value of SAR (measured) = 0.946 W/kg

Note: DASY system is configured to measure any secondary maxima that are within 2dB of the measured SAR level.

SAR/046: Back WLAN 5 GHz 802.11n HT40 MIMO Ant WF2 + WF3 CH110
Date: 14/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



0 dB = 1.11 W/kg = 0.45 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 5550 MHz; Duty Cycle: 1:1

Medium: 5250/5600/5750 MHz MSL Medium parameters used: $f = 5550$ MHz; $\sigma = 5.761$ S/m; $\epsilon_r = 47.204$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3814; ConvF(3.81, 3.81, 3.81); Calibrated: 06/10/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 28/09/2015
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2/Area Scan 2 (111x281x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.28 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 15.30 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 2.62 W/kg

SAR(1 g) = 0.736 W/kg; SAR(10 g) = 0.274 W/kg

Maximum value of SAR (measured) = 1.38 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x12) (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 15.30 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 2.27 W/kg

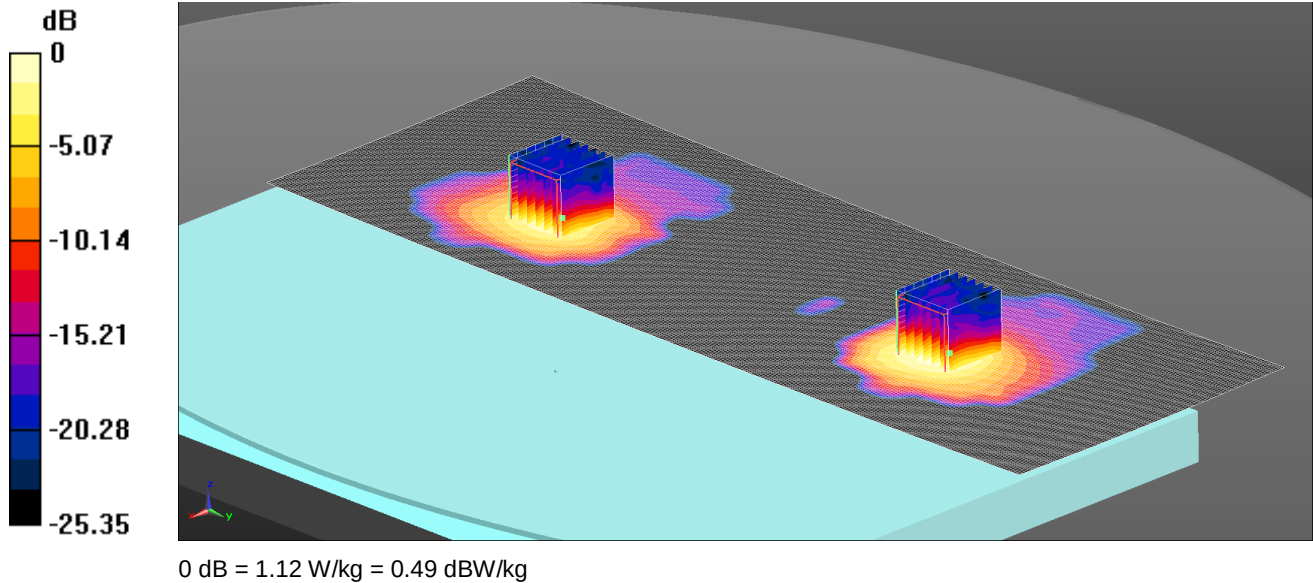
SAR(1 g) = 0.609 W/kg; SAR(10 g) = 0.221 W/kg

Maximum value of SAR (measured) = 1.11 W/kg

Note: DASY system is configured to measure any secondary maxima that are within 2dB of the measured SAR level.

SAR/047: Back WLAN 5 GHz 802.11ac VHT80 MIMO WF1 + WF3 CH138
Date: 13/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



Communication System: UID 0, WLAN 802.11 (0); Frequency: 5690 MHz; Duty Cycle: 1:1

Medium: 5250/5600/5750 MHz MSL Medium parameters used (interpolated): $f = 5690$ MHz; $\sigma = 5.981$ S/m; $\epsilon_r = 46.896$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3814; ConvF(3.81, 3.81, 3.81); Calibrated: 06/10/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 28/09/2015
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx/Area Scan 2 2 (121x351x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 1.32 W/kg

Configuration/Back - Bodyworn - PBx/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 14.58 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 2.59 W/kg

SAR(1 g) = 0.687 W/kg; SAR(10 g) = 0.248 W/kg

Maximum value of SAR (measured) = 1.34 W/kg

Configuration/Back - Bodyworn - PBx/Zoom Scan (7x7x12) (7x7x12)/Cube 1: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 14.58 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 2.18 W/kg

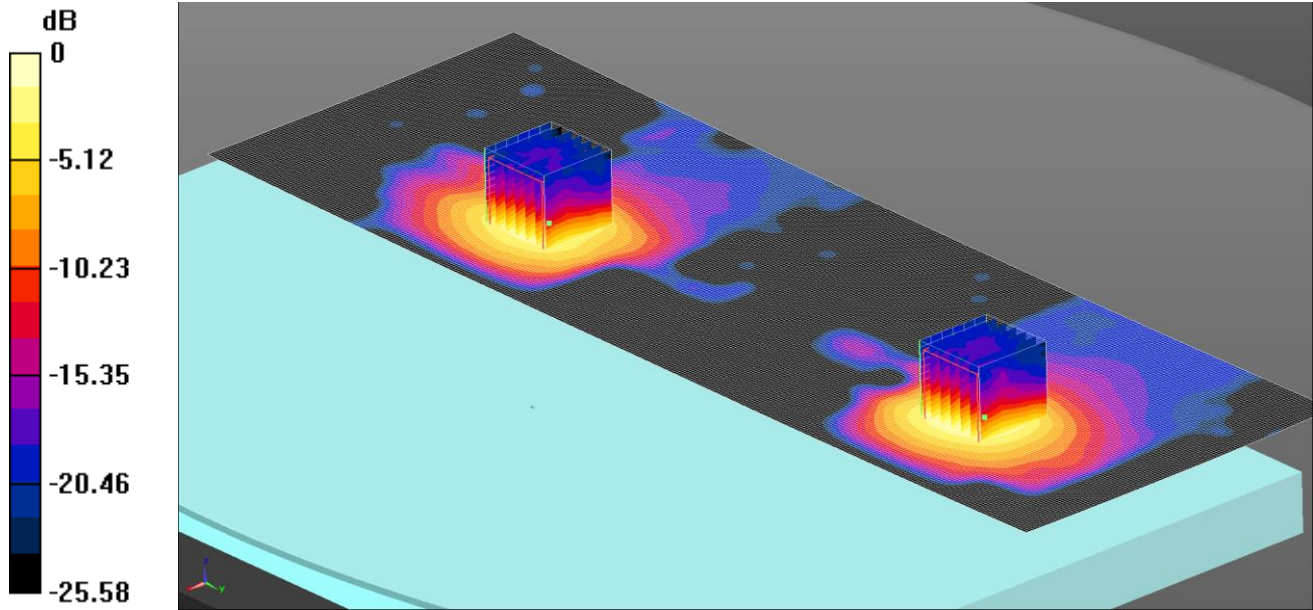
SAR(1 g) = 0.569 W/kg; SAR(10 g) = 0.210 W/kg

Maximum value of SAR (measured) = 1.12 W/kg

Note: DASY system is configured to measure any secondary maxima that are within 2dB of the measured SAR level.

SAR/048: Back WLAN 5 GHz 802.11n HT40 MIMO WF1 + WF3 CH110
Date: 14/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



0 dB = 1.55 W/kg = 1.90 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 5550 MHz; Duty Cycle: 1:1

Medium: 5250/5600/5750 MHz MSL Medium parameters used: $f = 5550$ MHz; $\sigma = 5.761$ S/m; $\epsilon_r = 47.204$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3814; ConvF(3.81, 3.81, 3.81); Calibrated: 06/10/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 28/09/2015
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2/Area Scan 2 (111x331x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.52 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 14.19 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 3.22 W/kg

SAR(1 g) = 0.890 W/kg; SAR(10 g) = 0.327 W/kg

Maximum value of SAR (measured) = 1.67 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x12) (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 14.19 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 3.02 W/kg

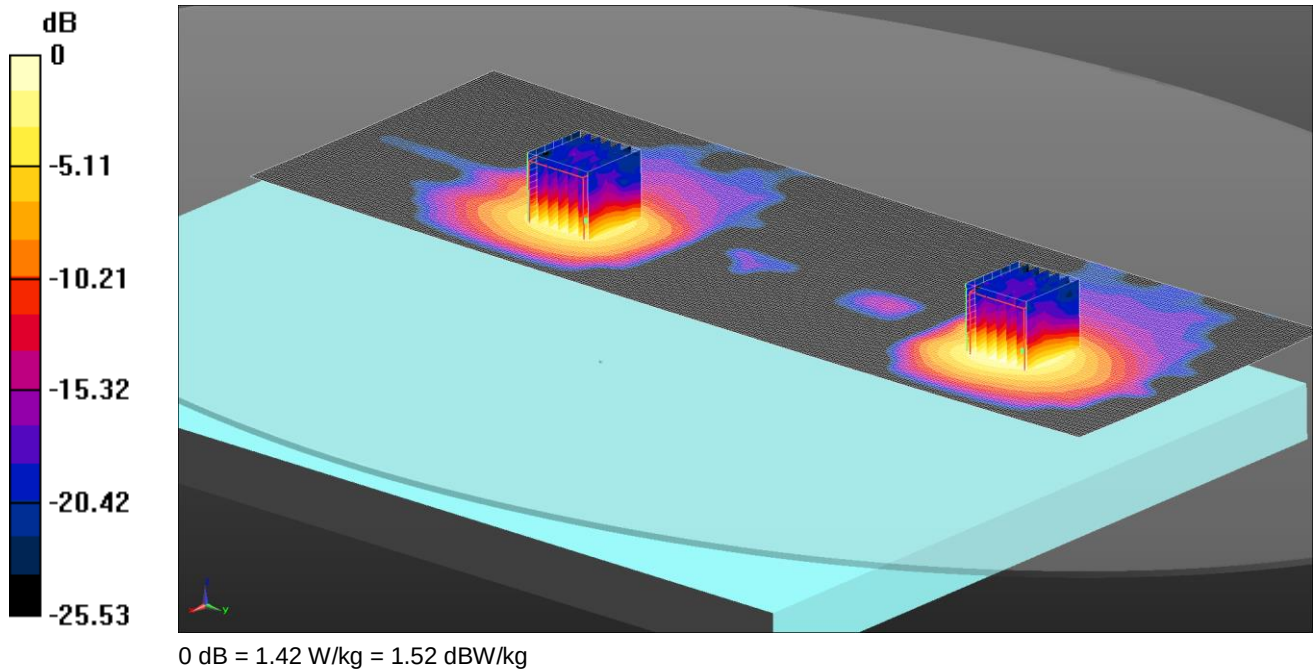
SAR(1 g) = 0.829 W/kg; SAR(10 g) = 0.308 W/kg

Maximum value of SAR (measured) = 1.55 W/kg

Note: DASY system is configured to measure any secondary maxima that are within 2dB of the measured SAR level.

SAR/049: Back WLAN 5 GHz 802.11n HT40 MIMO WF1 + WF3 CH134
Date: 14/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



Communication System: UID 0, WLAN 802.11 (0); Frequency: 5670 MHz; Duty Cycle: 1:1

Medium: 5250/5600/5750 MHz MSL Medium parameters used (interpolated): $f = 5670$ MHz; $\sigma = 5.95$ S/m; $\epsilon_r = 46.94$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3814; ConvF(3.81, 3.81, 3.81); Calibrated: 06/10/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 28/09/2015
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2/Area Scan 2 (111x331x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.55 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 14.27 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 3.26 W/kg

SAR(1 g) = 0.881 W/kg; SAR(10 g) = 0.322 W/kg

Maximum value of SAR (measured) = 1.69 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x12) (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 14.27 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 2.75 W/kg

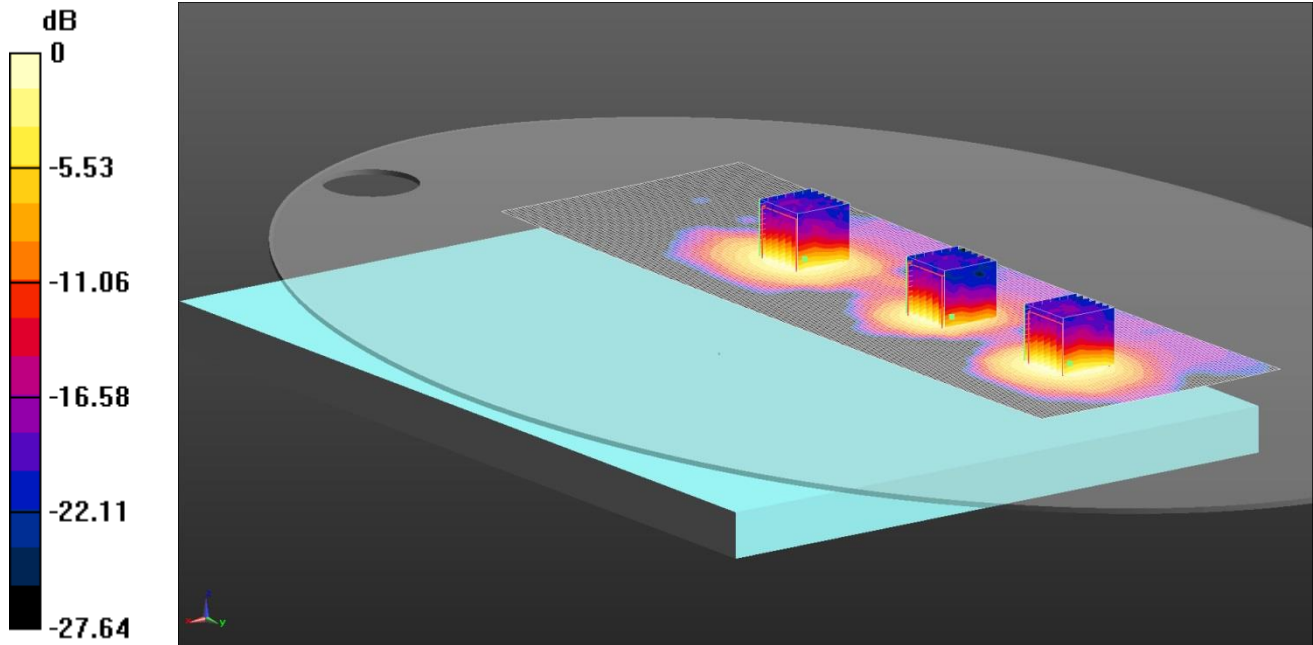
SAR(1 g) = 0.736 W/kg; SAR(10 g) = 0.273 W/kg

Maximum value of SAR (measured) = 1.42 W/kg

Note: DASY system is configured to measure any secondary maxima that are within 2dB of the measured SAR level.

SAR/050: Back WLAN 5 GHz 802.11n HT40 MIMO Ant WF1 + WF2 + WF3 CH102
Date: 09/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



0 dB = 1.33 W/kg = 1.24 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 5510 MHz; Duty Cycle: 1:1

Medium: 5250/5600/5750 MHz MSL Medium parameters used (interpolated): $f = 5510$ MHz; $\sigma = 5.773$ S/m; $\epsilon_r = 47.071$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3814; ConvF(3.81, 3.81, 3.81); Calibrated: 06/10/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 28/09/2015
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2 2/Area Scan 2 (111x341x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.64 W/kg

Configuration/Back - Bodyworn - PBx 2 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 15.69 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 3.27 W/kg

SAR(1 g) = 0.899 W/kg; SAR(10 g) = 0.330 W/kg

Maximum value of SAR (measured) = 1.72 W/kg

Configuration/Back - Bodyworn - PBx 2 2/Zoom Scan (7x7x12) (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 15.69 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 2.87 W/kg

SAR(1 g) = 0.798 W/kg; SAR(10 g) = 0.297 W/kg

Maximum value of SAR (measured) = 1.50 W/kg

Configuration/Back - Bodyworn - PBx 2 2/Zoom Scan (7x7x12) (7x7x12)/Cube 2: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 15.69 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 2.53 W/kg

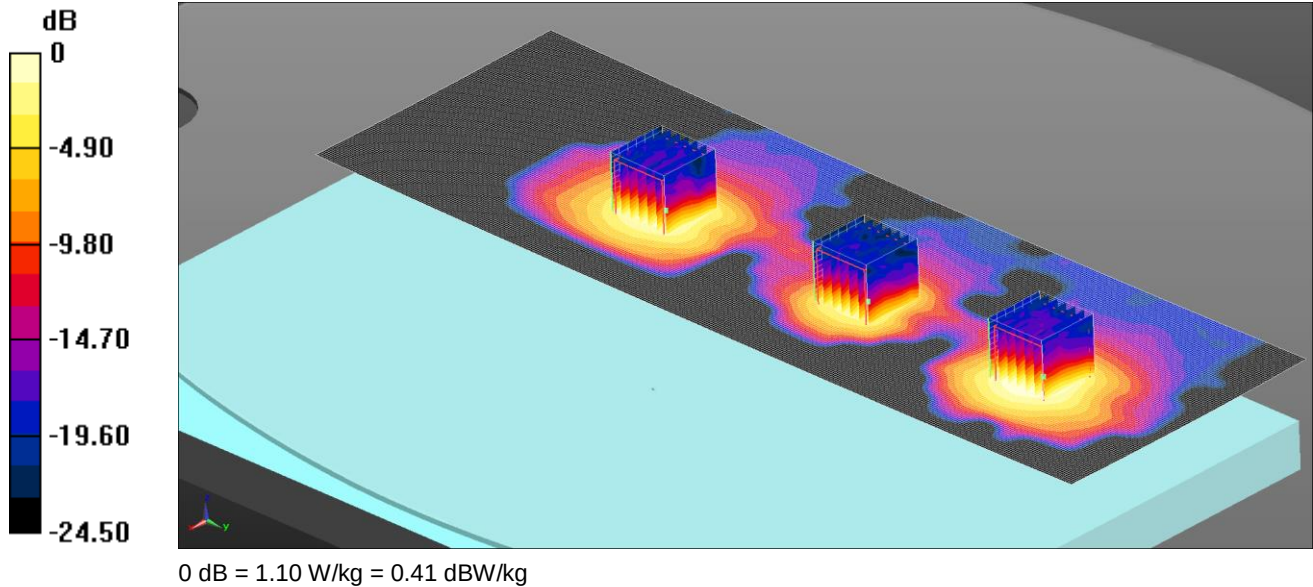
SAR(1 g) = 0.682 W/kg; SAR(10 g) = 0.243 W/kg

Maximum value of SAR (measured) = 1.33 W/kg

Note: DASY system is configured to measure any secondary maxima that are within 2dB of the measured SAR level.

SAR/051: Back WLAN 5 GHz 802.11n HT40 MIMO Ant WF1 + WF2 + WF3 CH110
Date: 12/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



Communication System: UID 0, WLAN 802.11 (0); Frequency: 5550 MHz; Duty Cycle: 1:1

Medium: 5250/5600/5750 MHz MSL Medium parameters used: $f = 5550$ MHz; $\sigma = 5.761$ S/m; $\epsilon_r = 47.204$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3814; ConvF(3.81, 3.81, 3.81); Calibrated: 06/10/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 28/09/2015
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2 2/Area Scan 2 (111x341x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 1.64 W/kg

Configuration/Back - Bodyworn - PBx 2 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 14.22 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 3.03 W/kg

SAR(1 g) = 0.821 W/kg; SAR(10 g) = 0.302 W/kg

Maximum value of SAR (measured) = 1.61 W/kg

Configuration/Back - Bodyworn - PBx 2 2/Zoom Scan (7x7x12) (7x7x12)/Cube 1: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 14.22 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 2.75 W/kg

SAR(1 g) = 0.747 W/kg; SAR(10 g) = 0.279 W/kg

Maximum value of SAR (measured) = 1.41 W/kg

Configuration/Back - Bodyworn - PBx 2 2/Zoom Scan (7x7x12) (7x7x12)/Cube 2: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 14.22 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 2.17 W/kg

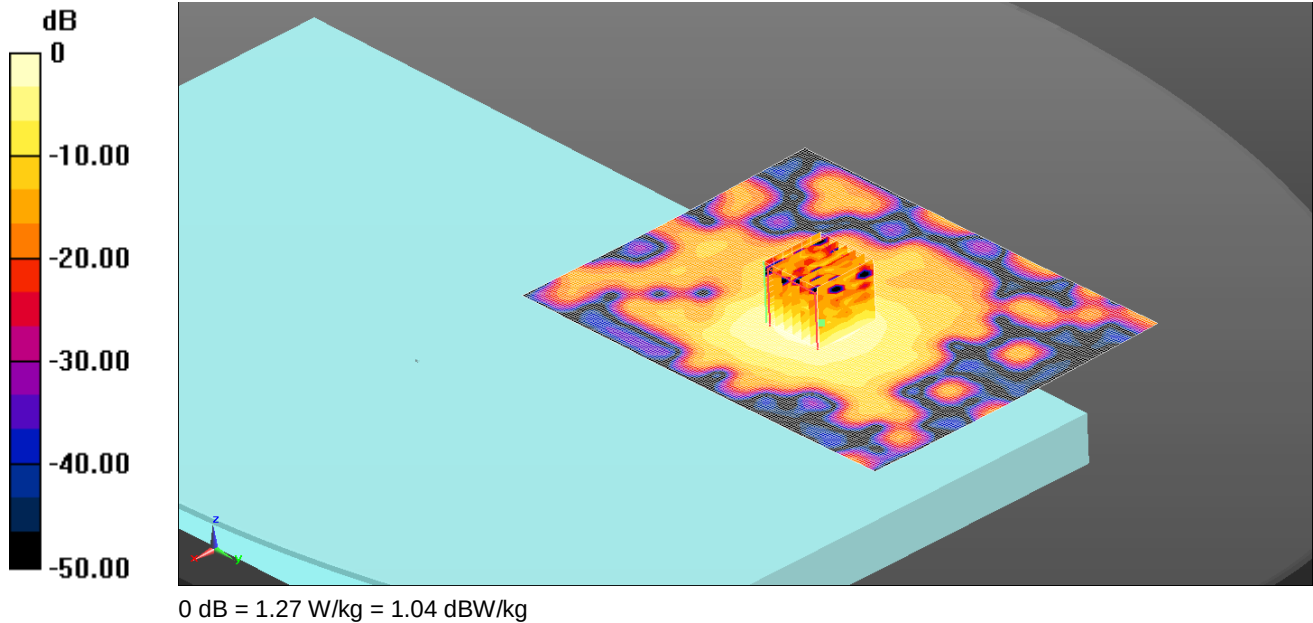
SAR(1 g) = 0.583 W/kg; SAR(10 g) = 0.211 W/kg

Maximum value of SAR (measured) = 1.10 W/kg

Note: DASY system is configured to measure any secondary maxima that are within 2dB of the measured SAR level.

SAR/052: Back WLAN 5 GHz 802.11ac VHT80 SISO Ant WF1 CH155
Date: 06/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



Communication System: UID 0, WLAN 802.11 (0); Frequency: 5775 MHz; Duty Cycle: 1:1
Medium: 5250/5600/5750 MHz MSL Medium parameters used (interpolated): $f = 5775$ MHz; $\sigma = 6.127$ S/m; $\epsilon_r = 49.092$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3994; ConvF(3.99, 3.99, 3.99); Calibrated: 21/03/2016;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1438; Calibrated: 25/04/2016
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2/Area Scan (121x161x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.15 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 8.304 V/m; Power Drift = -0.10 dB

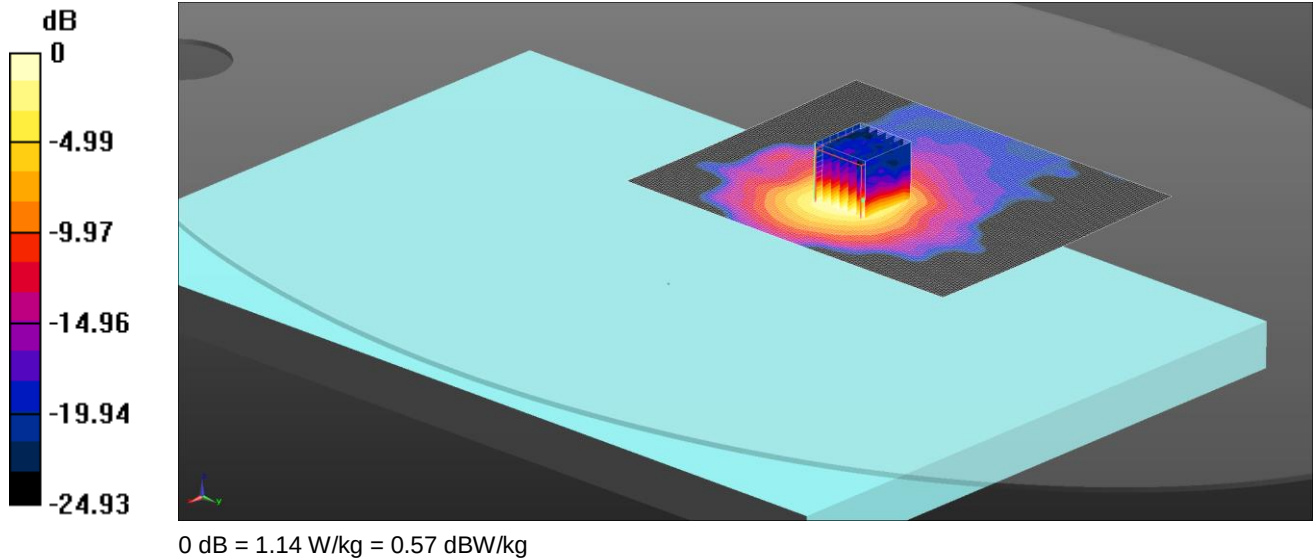
Peak SAR (extrapolated) = 2.40 W/kg

SAR(1 g) = 0.646 W/kg; SAR(10 g) = 0.229 W/kg

Maximum value of SAR (measured) = 1.27 W/kg

SAR/053: Back WLAN 5 GHz 802.11ac VHT80 SISO Ant WF2 CH155
Date: 31/08/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



Communication System: UID 0, WLAN 802.11 (0); Frequency: 5775 MHz; Duty Cycle: 1:1
Medium: 5250/5600/5750 MHz MSL Medium parameters used (interpolated): $f = 5775$ MHz; $\sigma = 6.152$ S/m; $\epsilon_r = 47.792$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3814; ConvF(3.99, 3.99, 3.99); Calibrated: 06/10/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 28/09/2015
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2/Area Scan 2 (121x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.13 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 13.60 V/m; Power Drift = 0.01 dB

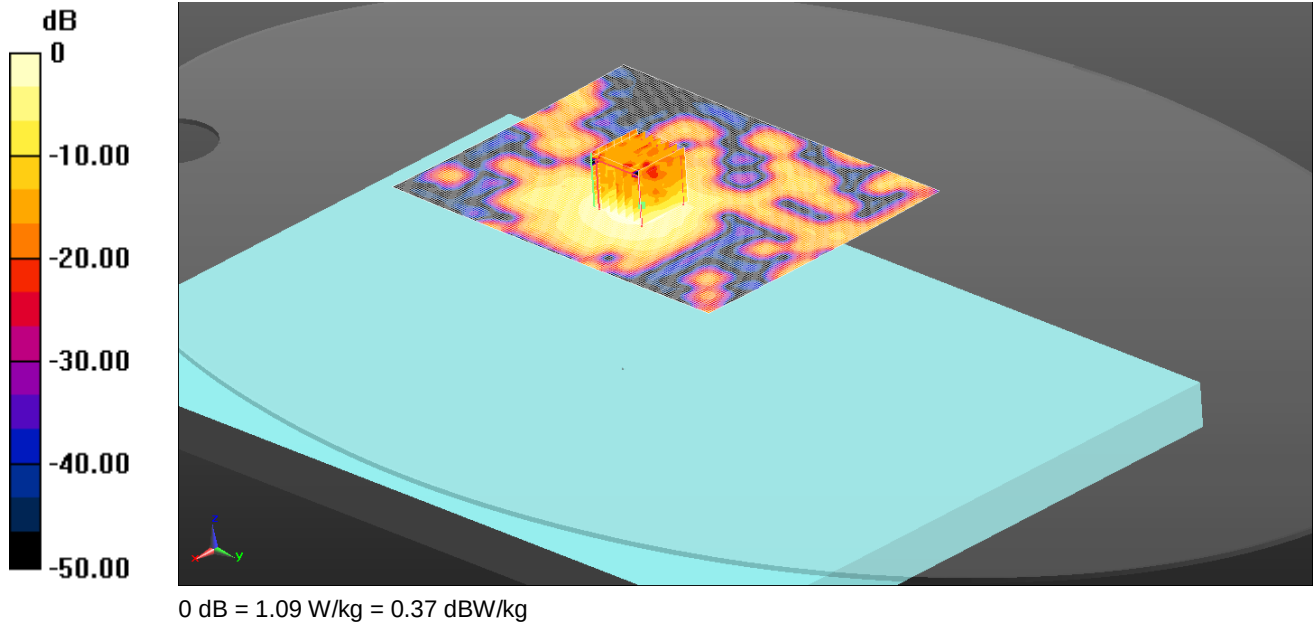
Peak SAR (extrapolated) = 2.35 W/kg

SAR(1 g) = 0.602 W/kg; SAR(10 g) = 0.226 W/kg

Maximum value of SAR (measured) = 1.14 W/kg

SAR/054: Back WLAN 5 GHz 802.11ac VHT80 SISO Ant WF3 CH155
Date: 06/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



Communication System: UID 0, WLAN 802.11 (0); Frequency: 5775 MHz; Duty Cycle: 1:1
Medium: 5250/5600/5750 MHz MSL Medium parameters used (interpolated): $f = 5775$ MHz; $\sigma = 6.127$ S/m; $\epsilon_r = 49.092$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3994; ConvF(3.99, 3.99, 3.99); Calibrated: 21/03/2016;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1438; Calibrated: 25/04/2016
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2/Area Scan (121x161x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.06 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 6.092 V/m; Power Drift = -0.13 dB

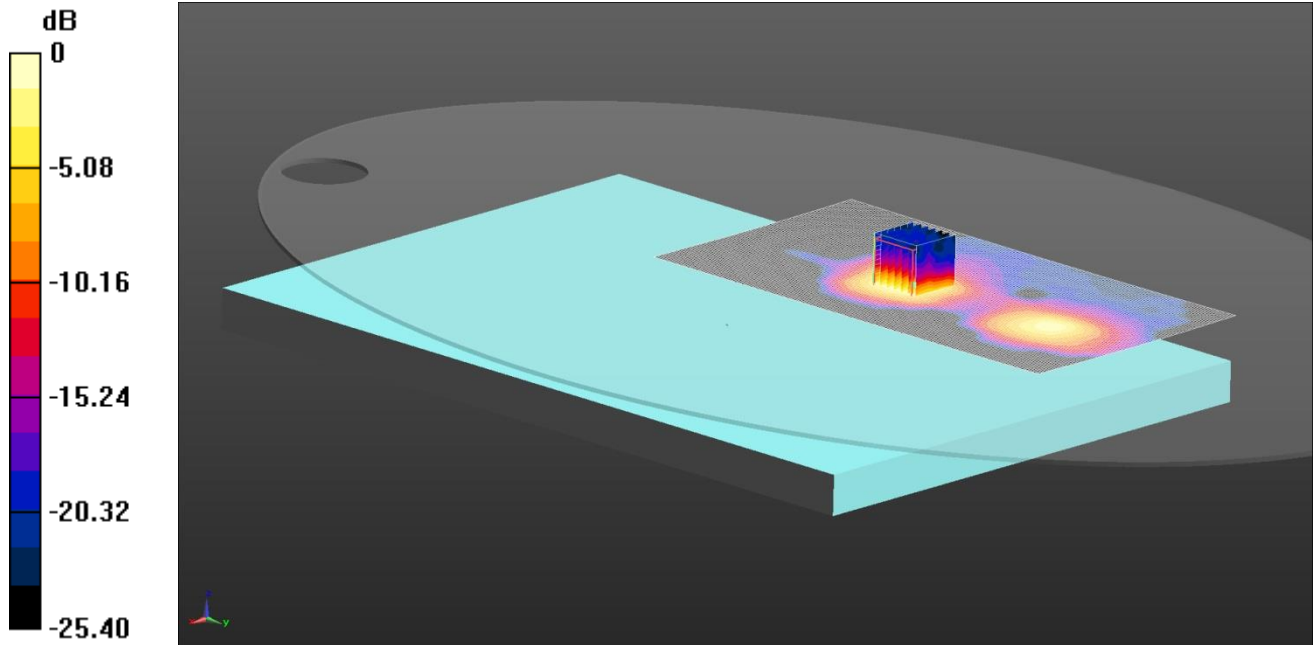
Peak SAR (extrapolated) = 2.38 W/kg

SAR(1 g) = 0.558 W/kg; SAR(10 g) = 0.197 W/kg

Maximum value of SAR (measured) = 1.09 W/kg

SAR/055: Back WLAN 5 GHz 802.11ac VHT80 MIMO Ant WF1 + WF2 CH155
Date: 09/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



0 dB = 1.79 W/kg = 2.53 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 5775 MHz; Duty Cycle: 1:1

Medium: 5250/5600/5750 MHz MSL Medium parameters used (interpolated): $f = 5775$ MHz; $\sigma = 6.203$ S/m; $\epsilon_r = 46.522$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3814; ConvF(3.99, 3.99, 3.99); Calibrated: 06/10/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 28/09/2015
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2/Area Scan 2 (121x221x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.67 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 17.02 V/m; Power Drift = -0.04 dB

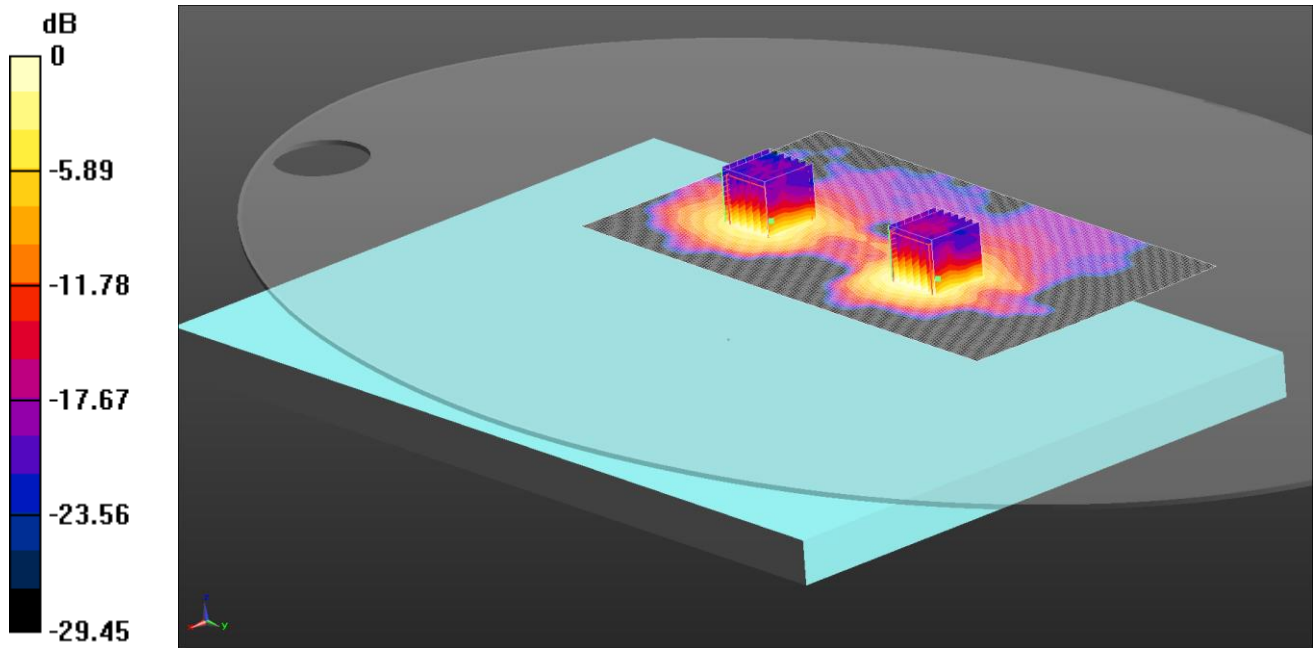
Peak SAR (extrapolated) = 3.49 W/kg

SAR(1 g) = 0.894 W/kg; SAR(10 g) = 0.318 W/kg

Maximum value of SAR (measured) = 1.79 W/kg

SAR/056: Back WLAN 5 GHz 802.11ac VHT80 MIMO Ant WF2 + WF3 CH155
Date: 09/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



0 dB = 1.28 W/kg = 1.07 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 5775 MHz; Duty Cycle: 1:1

Medium: 5250/5600/5750 MHz MSL Medium parameters used (interpolated): $f = 5775$ MHz; $\sigma = 6.203$ S/m; $\epsilon_r = 46.522$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3814; ConvF(3.99, 3.99, 3.99); Calibrated: 06/10/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 28/09/2015
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx/Area Scan 2 (121x221x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.97 W/kg

Configuration/Back - Bodyworn - PBx/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 12.79 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 4.22 W/kg

SAR(1 g) = 1.05 W/kg; SAR(10 g) = 0.369 W/kg

Maximum value of SAR (measured) = 2.05 W/kg

Configuration/Back - Bodyworn - PBx/Zoom Scan (7x7x12) (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 12.79 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 2.52 W/kg

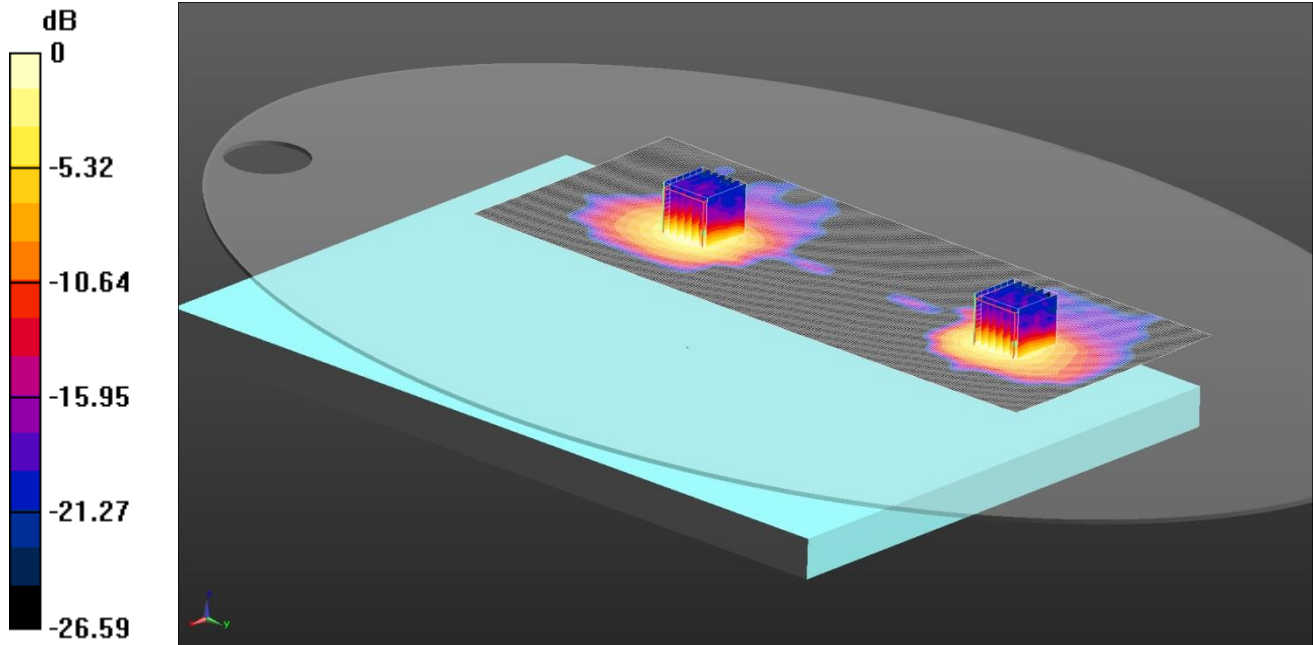
SAR(1 g) = 0.637 W/kg; SAR(10 g) = 0.232 W/kg

Maximum value of SAR (measured) = 1.28 W/kg

Note: DASY system is configured to measure any secondary maxima that are within 2dB of the measured SAR level.

SAR/057: Back WLAN 5 GHz 802.11ac VHT80 MIMO WF1 + WF3 CH155
Date: 09/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



0 dB = 1.09 W/kg = 0.37 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 5775 MHz; Duty Cycle: 1:1

Medium: 5250/5600/5750 MHz MSL Medium parameters used (interpolated): $f = 5775$ MHz; $\sigma = 6.203$ S/m; $\epsilon_r = 46.522$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3814; ConvF(3.99, 3.99, 3.99); Calibrated: 06/10/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 28/09/2015
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2 2/Area Scan 2 (121x301x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.12 W/kg

Configuration/Back - Bodyworn - PBx 2 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 13.00 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 2.30 W/kg

SAR(1 g) = 0.603 W/kg; SAR(10 g) = 0.217 W/kg

Maximum value of SAR (measured) = 1.18 W/kg

Configuration/Back - Bodyworn - PBx 2 2/Zoom Scan (7x7x12) (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 13.00 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 2.13 W/kg

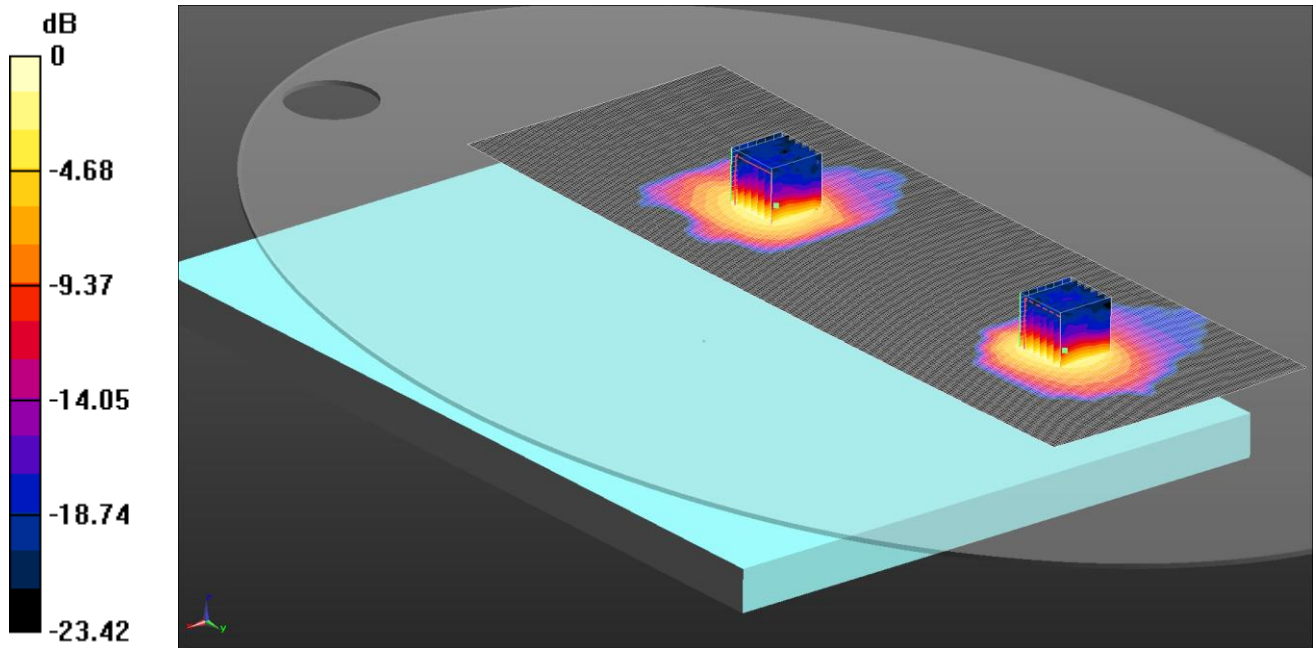
SAR(1 g) = 0.557 W/kg; SAR(10 g) = 0.198 W/kg

Maximum value of SAR (measured) = 1.09 W/kg

Note: DASY system is configured to measure any secondary maxima that are within 2dB of the measured SAR level.

SAR/058: Back WLAN 5 GHz 802.11ac VHT80 MIMO Ant WF1 + WF2 + WF3 CH155
Date: 09/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



0 dB = 1.00 W/kg = 0.00 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 5775 MHz; Duty Cycle: 1:1

Medium: 5250/5600/5750 MHz MSL Medium parameters used (interpolated): $f = 5775$ MHz; $\sigma = 6.203$ S/m; $\epsilon_r = 46.522$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3814; ConvF(3.99, 3.99, 3.99); Calibrated: 06/10/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 28/09/2015
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: 1253
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2/Area Scan 2 (121x351x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.00 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 12.38 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 1.86 W/kg

SAR(1 g) = 0.500 W/kg; SAR(10 g) = 0.188 W/kg

Maximum value of SAR (measured) = 0.965 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x12) (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 12.38 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 1.96 W/kg

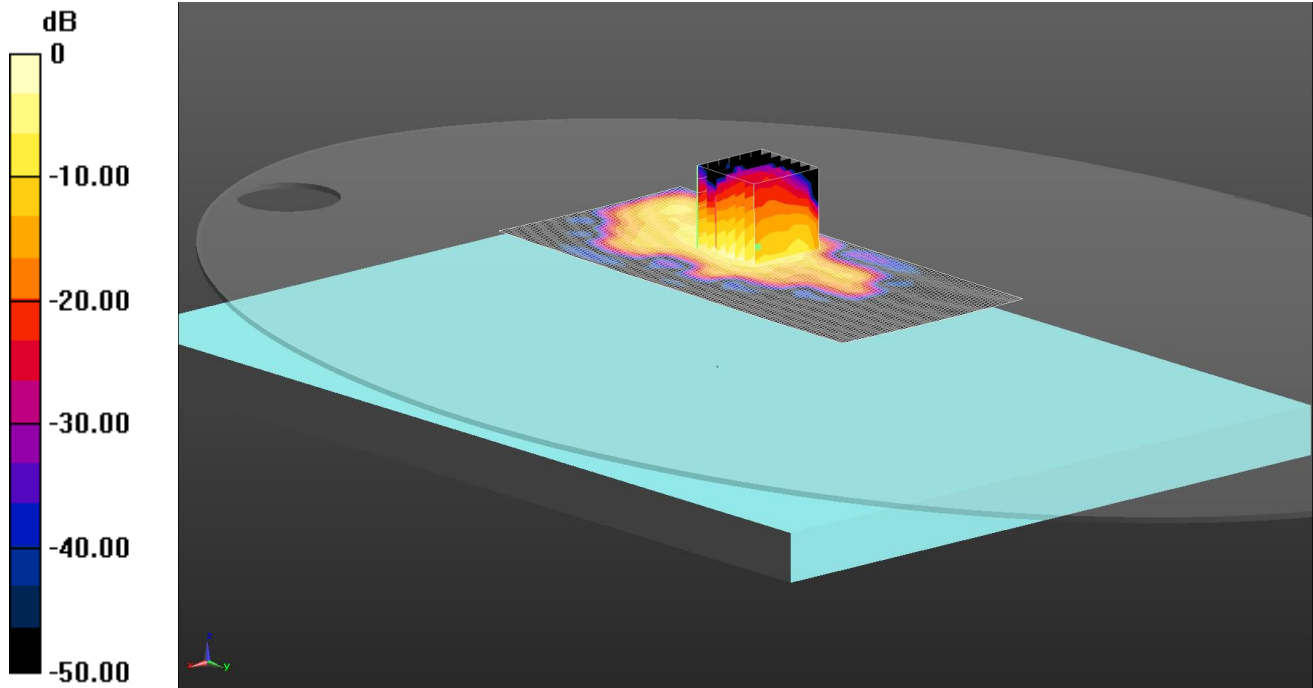
SAR(1 g) = 0.524 W/kg; SAR(10 g) = 0.193 W/kg

Maximum value of SAR (measured) = 1.00 W/kg

Note: DASY system is configured to measure any secondary maxima that are within 2dB of the measured SAR level.

SAR/059: Back Bluetooth BDR SISO Ant WF3 CH78
Date: 24/08/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



0 dB = 0.270 W/kg = -5.68 dBW/kg

Communication System: UID 0, Bluetooth (0); Frequency: 2480 MHz; Duty Cycle: 1:1.29837
Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2480$ MHz; $\sigma = 2.057$ S/m; $\epsilon_r = 51.27$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3995; ConvF(7.54, 7.54, 7.54); Calibrated: 26/04/2016;
- Sensor-Surface: 3mm (Mechanical Surface Detection), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1435; Calibrated: 30/05/2016
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2/Area Scan 2 (71x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.270 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.28 V/m; Power Drift = -0.03 dB

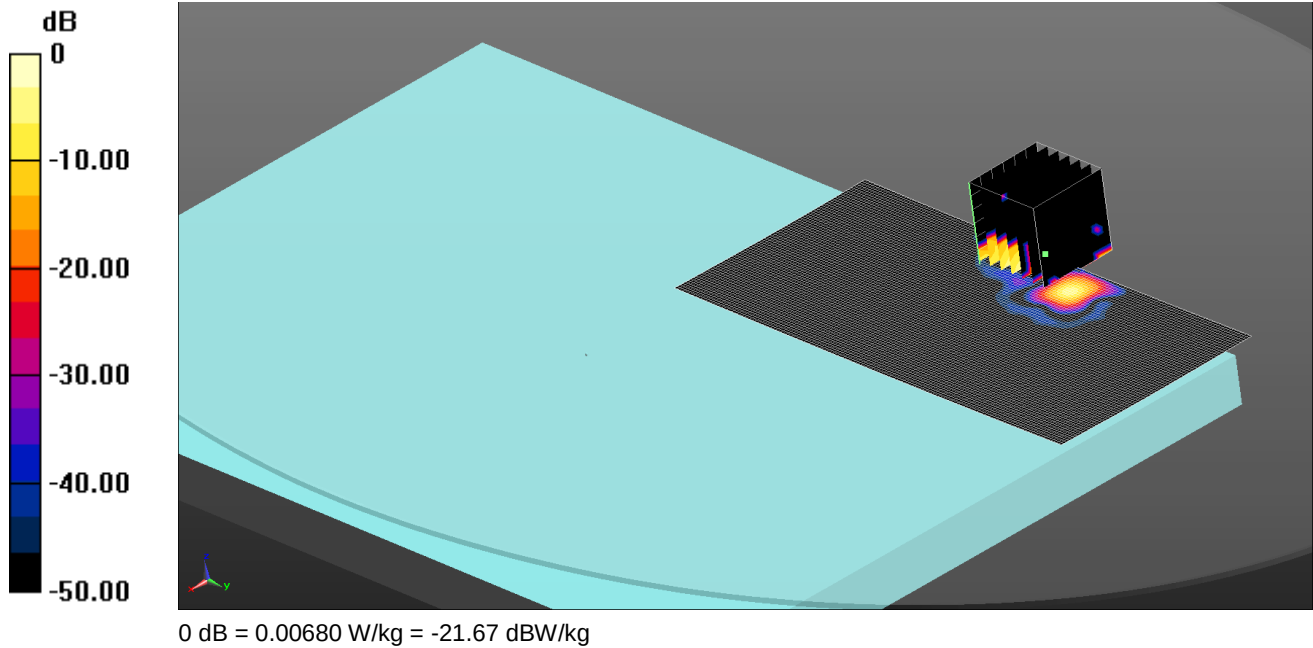
Peak SAR (extrapolated) = 0.535 W/kg

SAR(1 g) = 0.179 W/kg; SAR(10 g) = 0.064 W/kg

Maximum value of SAR (measured) = 0.312 W/kg

SAR/060: Display Bluetooth BDR SISO Ant WF3 CH78
Date: 25/08/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1707; Model No: A1707



Communication System: UID 0, Bluetooth (0); Frequency: 2480 MHz; Duty Cycle: 1:1.29837
Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2480$ MHz; $\sigma = 2.057$ S/m; $\epsilon_r = 51.27$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
DASY Configuration:
- Probe: EX3DV4 - SN3995; ConvF(7.54, 7.54, 7.54); Calibrated: 26/04/2016;
- Sensor-Surface: 3mm (Mechanical Surface Detection), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1435; Calibrated: 30/05/2016
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2/Area Scan 2 (71x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.00680 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.0240 W/kg

SAR(1 g) = 0.00359 W/kg; SAR(10 g) = 0.000714 W/kg

Maximum value of SAR (measured) = 0.00855 W/kg

Note: SAR level measured is very low as equivalent to noise floor.