

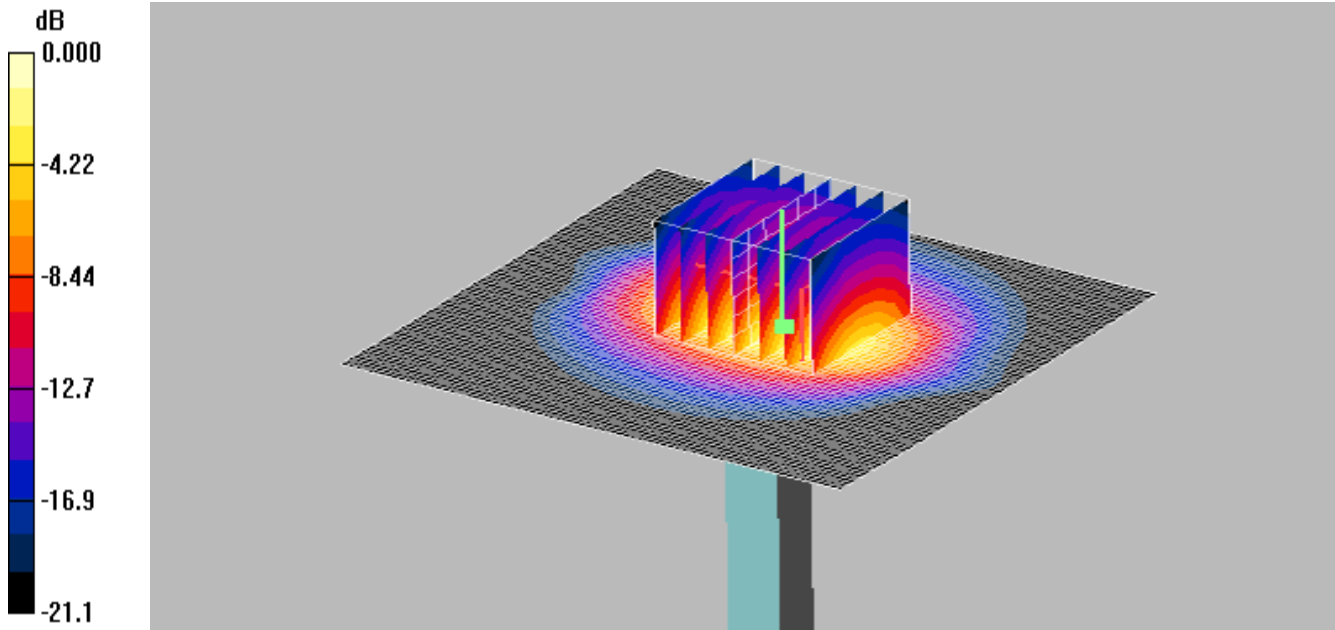
12.2. System Check Plots

This appendix contains the following system validation distribution scans.

Scan Reference Number	Title
SYS/001	System Performance Check 2450MHz Body 18 07 16
SYS/002	System Performance Check 2450MHz Body 01 08 16
SYS/003	System Performance Check 2450MHz Body 07 09 16
SYS/004	System Performance Check 2450MHz Body 12 09 16
SYS/005	System Performance Check 5250 MHz Body 25 07 16
SYS/006	System Performance Check 5250 MHz Body 05 09 16
SYS/007	System Performance Check 5600 MHz Body 25 07 16
SYS/008	System Performance Check 5600 MHz Body 22 08 16
SYS/009	System Performance Check 5600 MHz Body 05 09 16
SYS/010	System Performance Check 5750 MHz Body 25 07 16
SYS/011	System Performance Check 5750 MHz Body 05 09 16

SYS/001: System Performance Check 2450MHz Body 18 07 16
Date: 18/07/2016

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



0 dB = 15.2mW/g

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: 2.4 GHz MSL Medium parameters used: $f = 2450$ MHz; $\sigma = 2.03$ mho/m; $\epsilon_r = 51$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3814; ConvF(7.04, 7.04, 7.04);
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1435; Calibrated: 30/05/2016
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1235
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=10mm, Pin=250mW/Area Scan (81x81x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 15.7 mW/g

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

Reference Value = 83.8 V/m; Power Drift = -0.236 dB

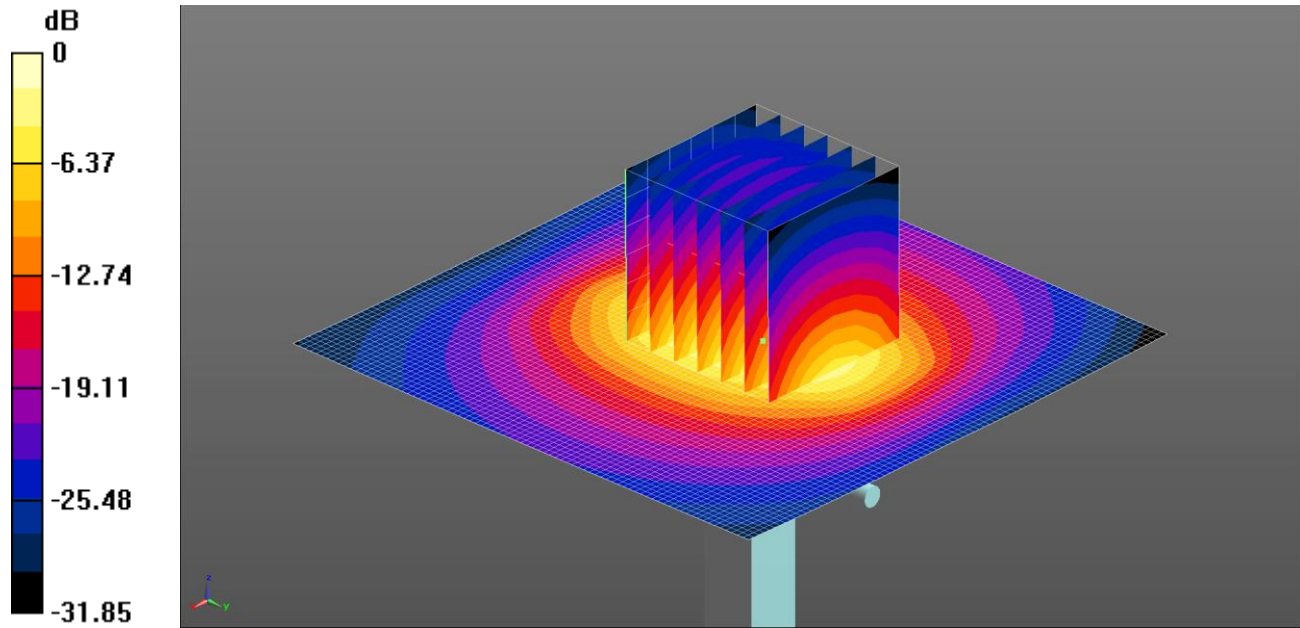
Peak SAR (extrapolated) = 26.2 W/kg

SAR(1 g) = 13.2 mW/g; SAR(10 g) = 6.21 mW/g

Maximum value of SAR (measured) = 15.2 mW/g

SYS/002: System Performance Check 2450MHz Body 01 08 16
Date: 01/08/2016

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



0 dB = 15.1 W/kg = 11.78 dBW/kg

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1
Medium: 2.4 GHz MSL Medium parameters used: $f = 2450$ MHz; $\sigma = 2.006$ S/m; $\epsilon_r = 51.612$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ES3DV3 - SN3341; ConvF(4.31, 4.31, 4.31); Calibrated: 25/08/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1435; Calibrated: 30/05/2016
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1235
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/d=10mm, Pin=250mW 2 2 2 2/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 15.1 W/kg

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

Reference Value = 87.51 V/m; Power Drift = -0.02 dB

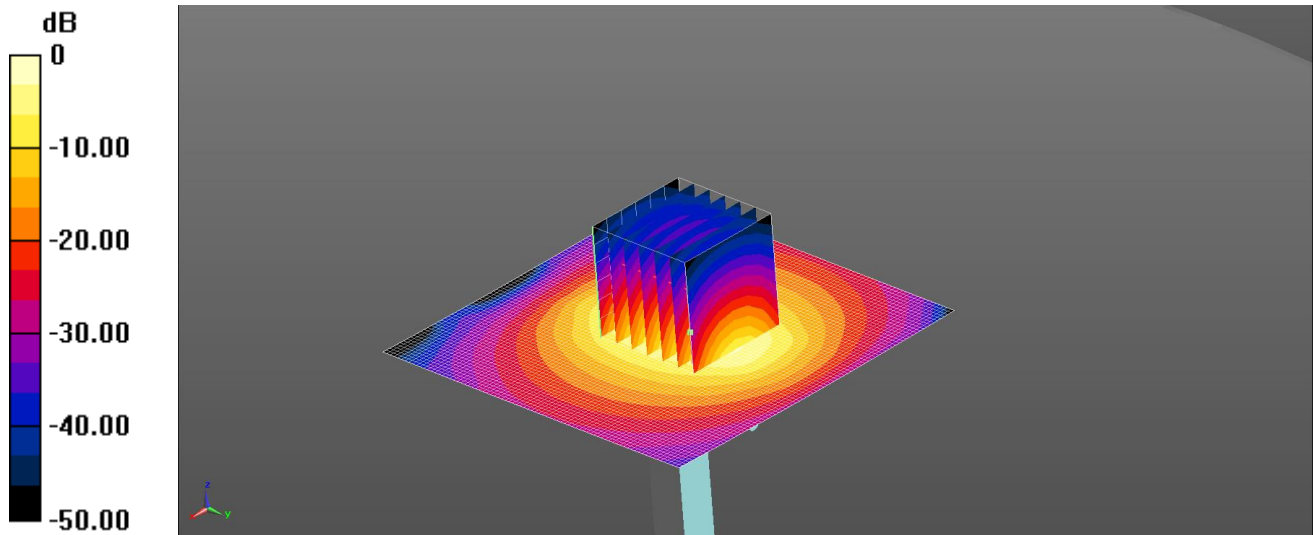
Peak SAR (extrapolated) = 27.5 W/kg

SAR(1 g) = 13 W/kg; SAR(10 g) = 5.96 W/kg

Maximum value of SAR (measured) = 14.9 W/kg

SYS/003: 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

DASY4 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

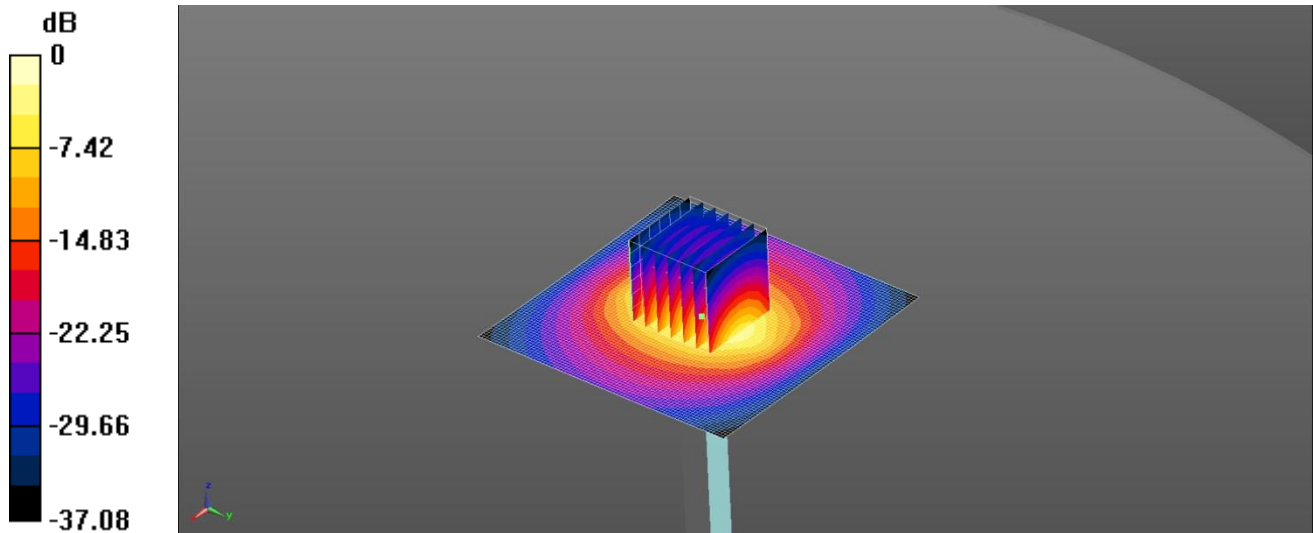
Peak SAR (extrapolated) = 27.4 W/kg

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

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

SYS/004: System Performance Check 2450MHz Body 12 09 16
Date: 12/09/2016

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



0 dB = 19.7 W/kg = 12.93 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; $\sigma = 2.043$ S/m; $\epsilon_r = 50.208$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 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) = 19.7 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 = 84.01 V/m; Power Drift = 0.06 dB

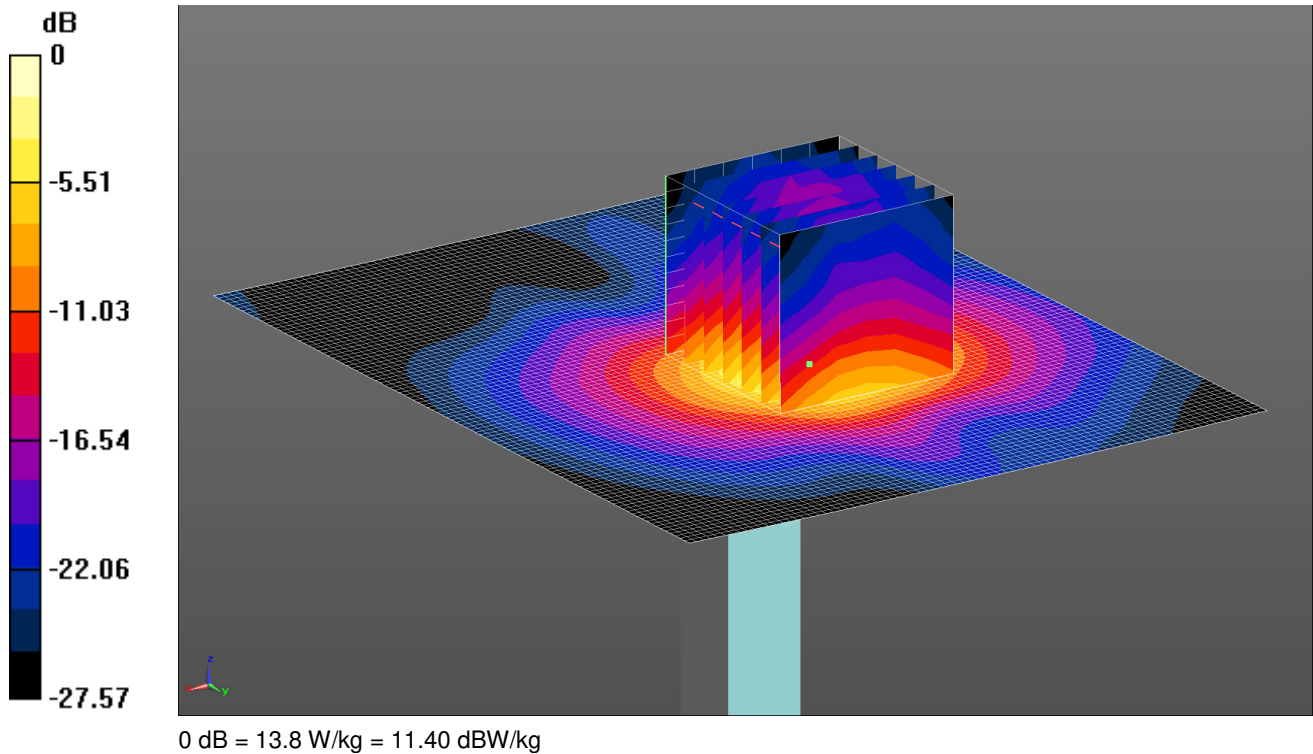
Peak SAR (extrapolated) = 26.9 W/kg

SAR(1 g) = 12.9 W/kg; SAR(10 g) = 5.96 W/kg

Maximum value of SAR (measured) = 19.8 W/kg

SYS/005: System Performance Check 5250 MHz Body 25 07 16
Date: 25/07/2016

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; $\sigma = 5.243$ S/m; $\epsilon_r = 48.817$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 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) = 14.2 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 = 25.04 V/m; Power Drift = -0.35 dB

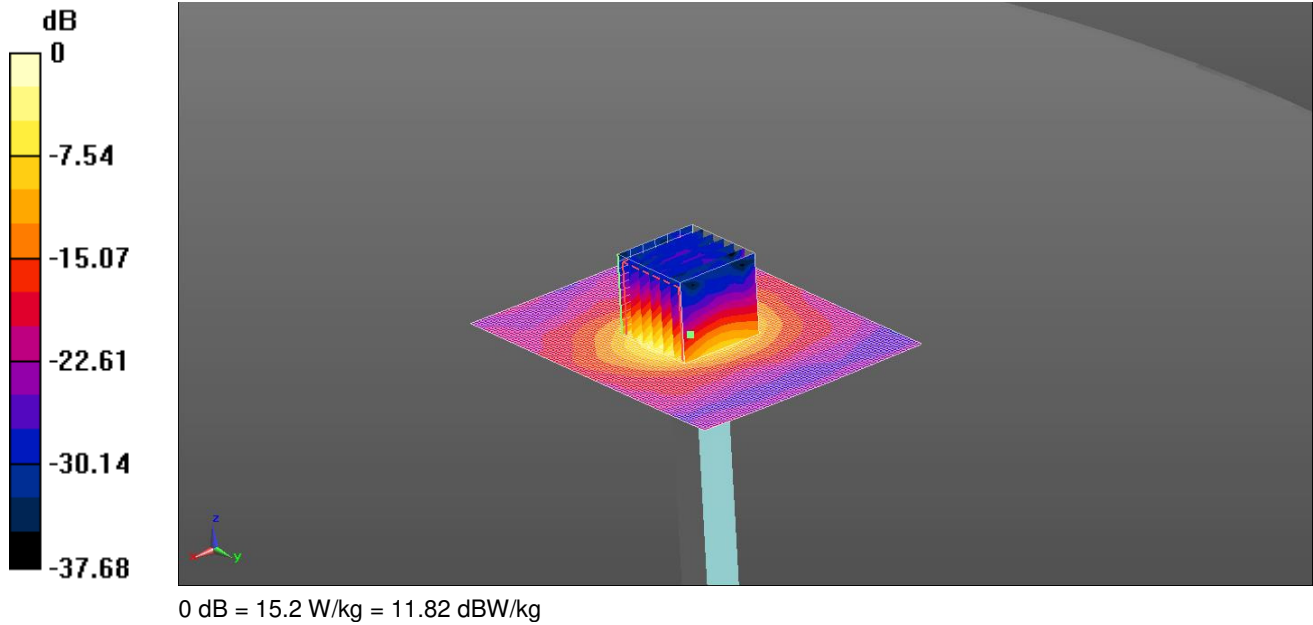
Peak SAR (extrapolated) = 23.1 W/kg

SAR(1 g) = 7.14 W/kg; SAR(10 g) = 2.15 W/kg

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

SYS/006: 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

DASY4 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

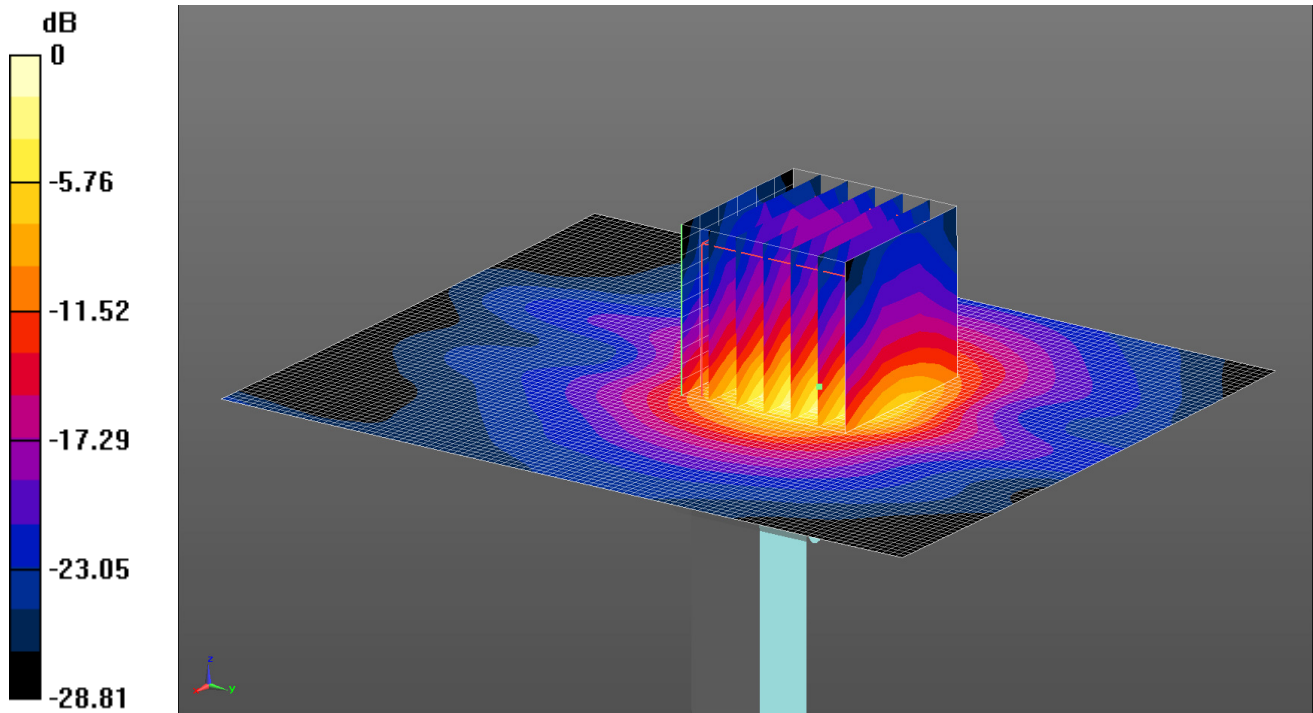
Peak SAR (extrapolated) = 28.1 W/kg

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

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

SYS/007: System Performance Check 5600 MHz Body 25 07 16
Date: 25/07/2016

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



0 dB = 15.4 W/kg = 11.88 dBW/kg

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; $\sigma = 5.786$ S/m; $\epsilon_r = 48.105$; $\rho = 1000$ 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/d=10mm, Pin=100mW 2/Area Scan (81x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 15.3 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 = 24.34 V/m; Power Drift = -0.64 dB

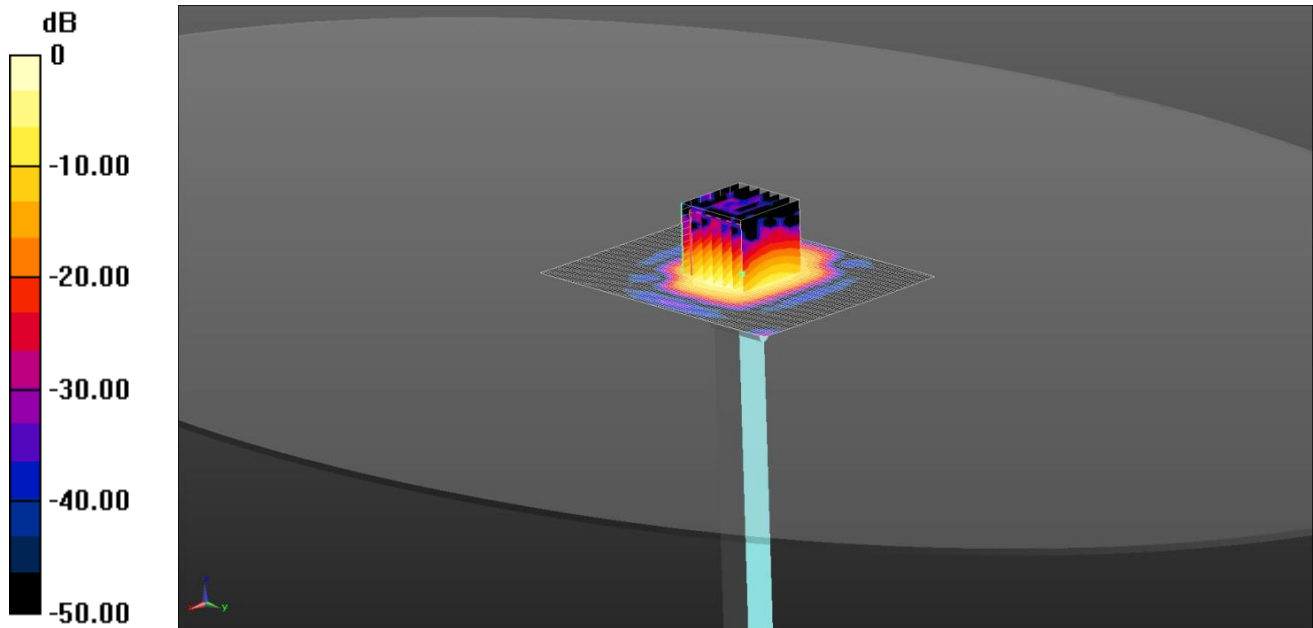
Peak SAR (extrapolated) = 25.9 W/kg

SAR(1 g) = 7.51 W/kg; SAR(10 g) = 2.22 W/kg

Maximum value of SAR (measured) = 15.4 W/kg

SYS/008: System Performance Check 5600 MHz Body 22 08 16
Date: 22/08/2016

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



0 dB = 17.0 W/kg = 12.30 dBW/kg

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

DASY4 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

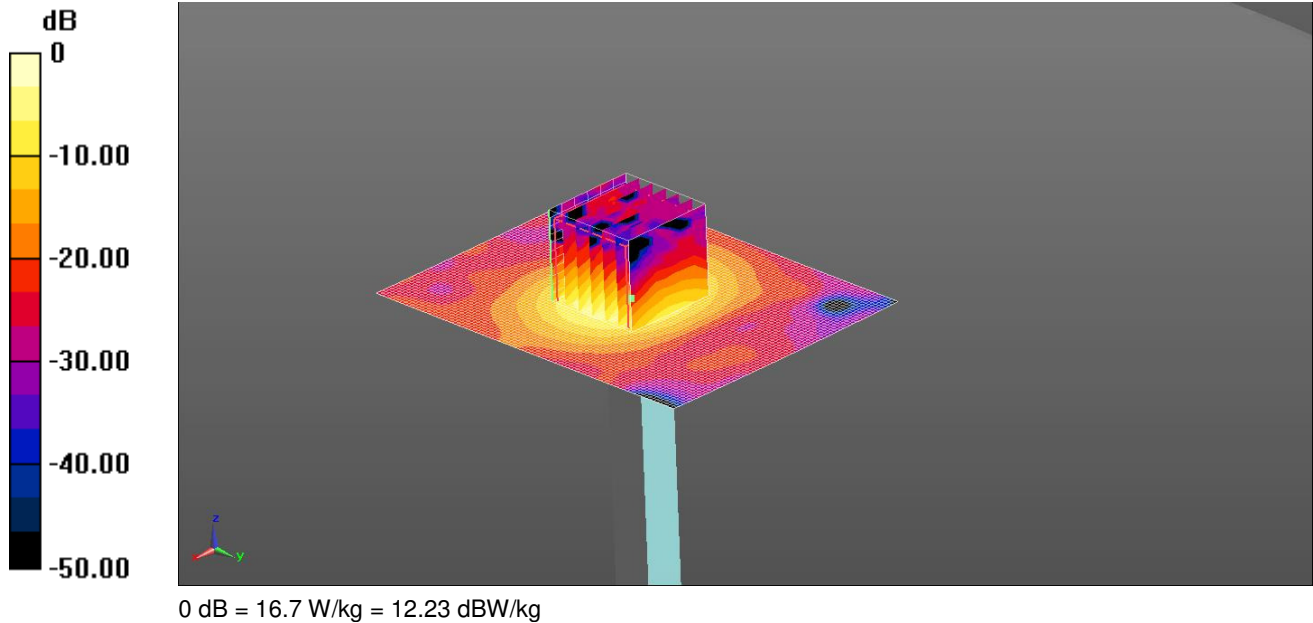
Peak SAR (extrapolated) = 32.3 W/kg

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

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

SYS/009: 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

DASY4 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

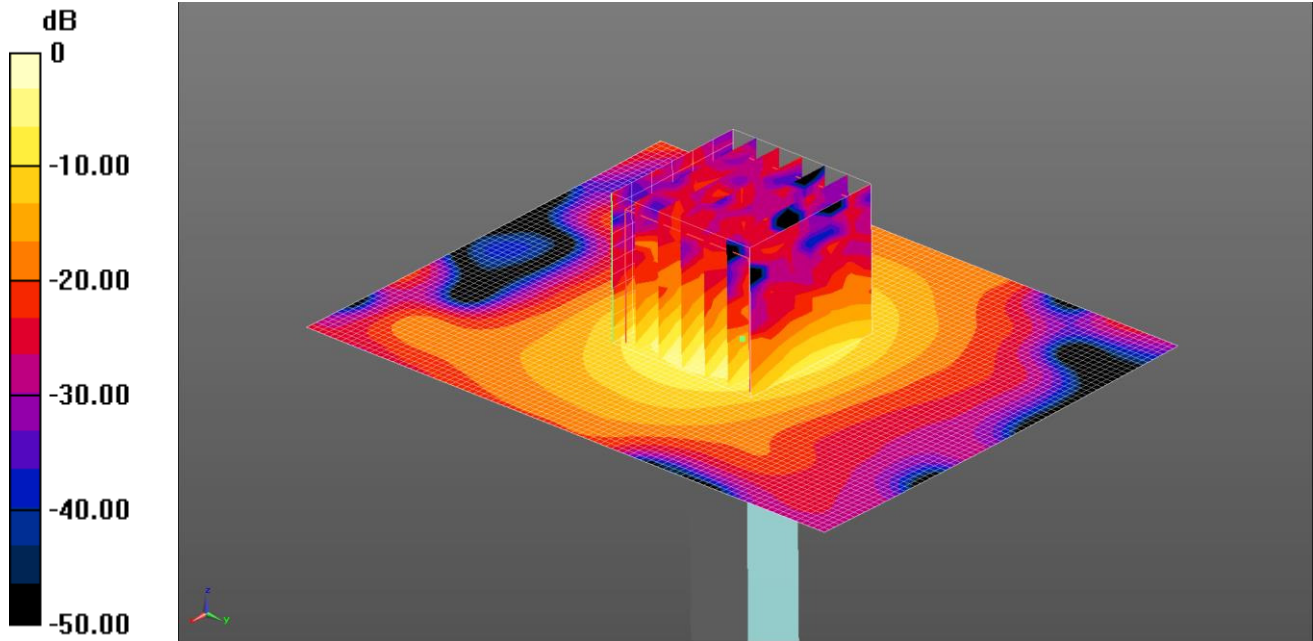
Peak SAR (extrapolated) = 31.5 W/kg

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

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

SYS/010: System Performance Check 5750 MHz Body 25 07 16
Date: 25/07/2016

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



0 dB = 15.9 W/kg = 12.01 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; $\sigma = 6.08$ S/m; $\epsilon_r = 48.503$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 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) = 16.2 W/kg

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

Reference Value = 37.78 V/m; Power Drift = 0.04 dB

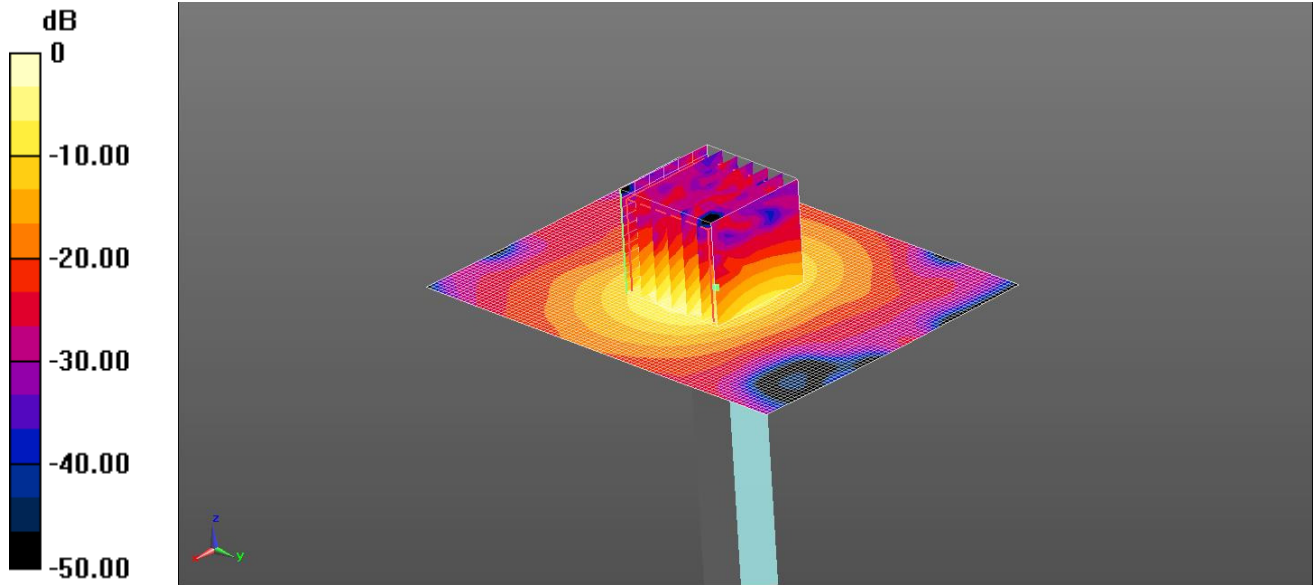
Peak SAR (extrapolated) = 31.3 W/kg

SAR(1 g) = 7.21 W/kg; SAR(10 g) = 1.98 W/kg

Maximum value of SAR (measured) = 15.9 W/kg

SYS/011: 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

DASY4 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

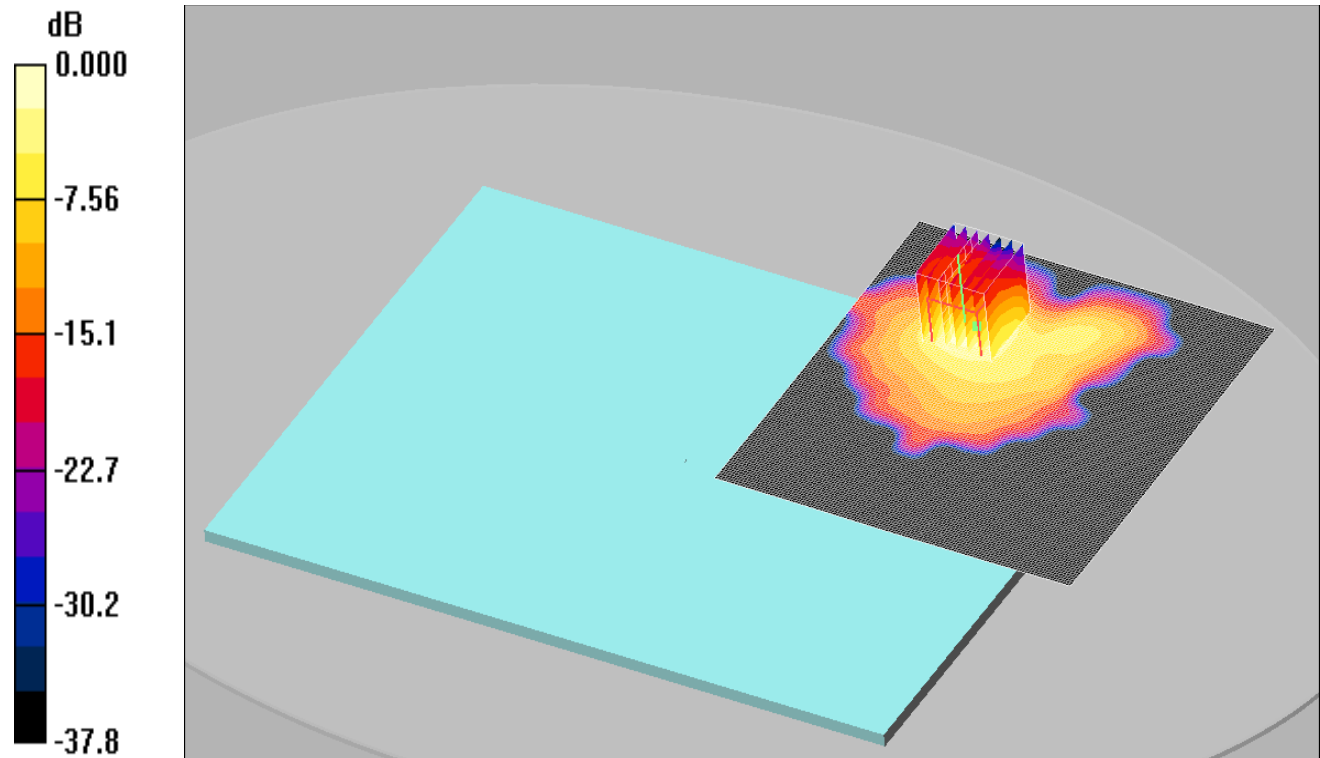
12.3. SAR Test Plots

This appendix contains the SAR Distribution Plots:

Scan Reference Number	Title
SAR/001	Back of EUT WiFi 2.4GHz 802.11b SISO Ant WF1 CH6
SAR/002	Back of Display of EUT WiFi 2.4GHz 802.11b SISO Ant WF1 CH6
SAR/003	Back of EUT WiFi 2.4GHz 802.11b SISO Ant WF2 CH6
SAR/004	Back of Display of EUT WiFi 2.4GHz 802.11b SISO Ant WF2 CH6
SAR/005	Back of EUT WiFi 2.4GHz 802.11b MIMO Ant WF1 + WF2 CH10
SAR/006	Back of EUT WiFi 2.4GHz 802.11b MIMO Ant WF1 + WF2 CH2
SAR/007	Back of EUT WiFi 2.4GHz 802.11b MIMO Ant WF1 + WF2 CH6
SAR/008	Back of EUT WiFi 5GHz 802.11n HT40 SISO Ant WF1 CH38
SAR/009	Back of EUT WiFi 5GHz 802.11n HT40 SISO Ant WF1 CH46
SAR/010	Back of Display of EUT WiFi 5GHz 802.11n HT20 SISO Ant WF1 CH38
SAR/011	Back of EUT WiFi 5GHz 802.11n HT40 SISO Ant WF2 CH46
SAR/012	Back of EUT WiFi 5GHz 802.11n HT40 SISO Ant WF2 CH38
SAR/013	Back of Display of EUT WiFi 5GHz 802.11n HT40 SISO Ant WF2 CH46
SAR/014	Back of EUT WiFi 5GHz 802.11n HT40 MIMO Ant WF1 + WF2 CH46
SAR/015	Back of EUT WiFi 5GHz 802.11n HT40 MIMO Ant WF1 + WF2 CH38
SAR/016	Back of EUT WiFi 5GHz 802.11n HT20 MIMO Ant WF1 + WF2 CH40
SAR/017	Back of EUT WiFi 5GHz 802.11n HT20 MIMO Ant WF1 + WF2 CH44
SAR/018	Back of EUT WiFi 5GHz 802.11ac VHT80 SISO Ant WF1 CH106
SAR/019	Back of EUT WiFi 5GHz 802.11ac VHT80 SISO Ant WF2 CH106
SAR/020	Back of EUT WiFi 5GHz 802.11ac VHT80 MIMO Ant WF1 + WF2 CH138
SAR/021	Back of EUT WiFi 5GHz 802.11ac VHT80 MIMO Ant WF1 + WF2 CH106
SAR/022	Back of EUT WiFi 5GHz 802.11n HT40 MIMO Ant WF1 + WF2 CH110
SAR/023	Back of EUT WiFi 5GHz 802.11n HT40 MIMO Ant WF1 + WF2 CH134
SAR/024	Back of EUT WiFi 5GHz 802.11ac VHT80 SISO Ant WF1 CH155
SAR/025	Back of EUT WiFi 5GHz 802.11ac VHT80 SISO Ant WF2 CH155
SAR/026	Back of EUT WiFi 5GHz 802.11ac VHT80 MIMO Ant WF1 + WF2 CH155
SAR/027	Back of EUT Bluetooth BDR SISO Ant WF2 CH78
SAR/028	Back of Display of EUT Bluetooth BDR SISO Ant WF2 CH78

SAR/001: Back of EUT WiFi 2.4GHz 802.11b SISO Ant WF1 CH6
Date: 20/07/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1708; Model No: A1708



0 dB = 0.627mW/g

Communication System: WLAN; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 2.01$ mho/m; $\epsilon_r = 51$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3814; ConvF(7.04, 7.04, 7.04);
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1435; Calibrated: 30/05/2016
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1235
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Back - Bodyworn - PBx/Area Scan (131x131x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 0.622 mW/g

Back - Bodyworn - PBx/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.6 V/m; Power Drift = -0.181 dB

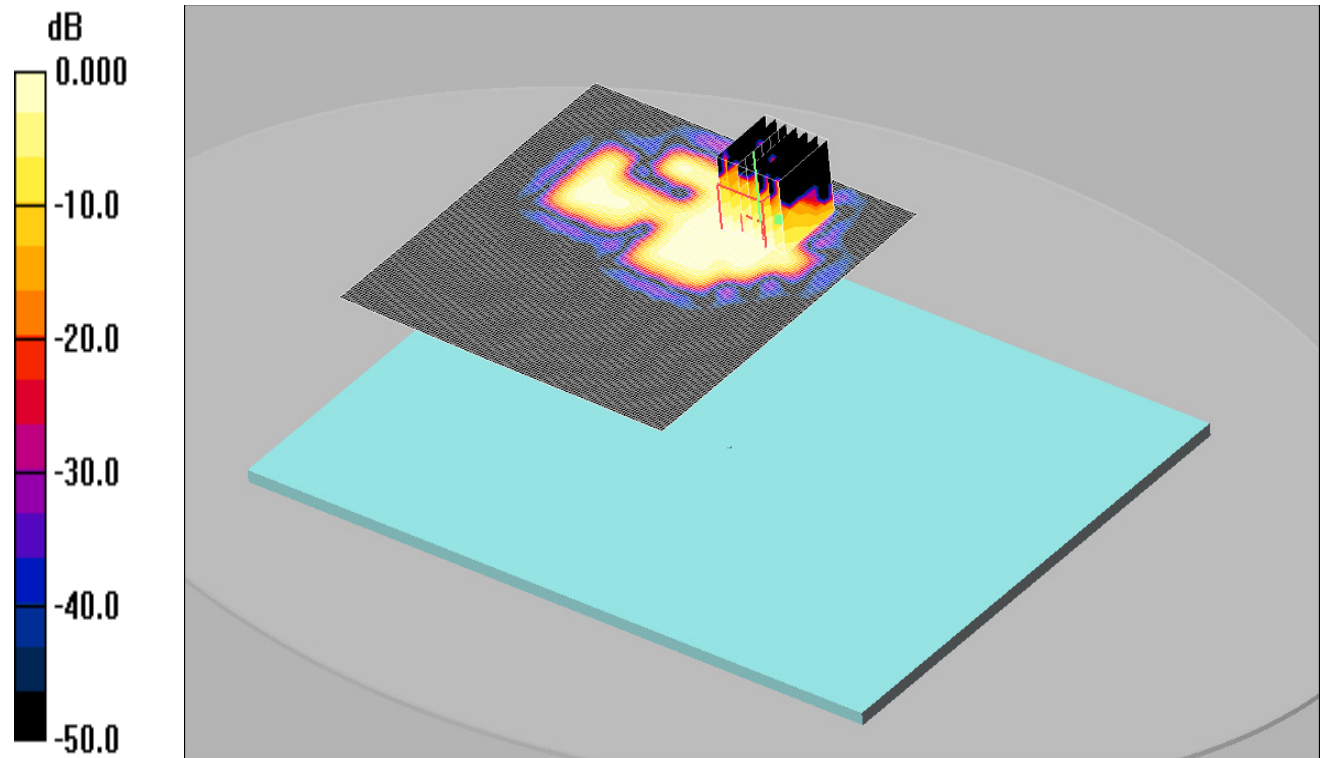
Peak SAR (extrapolated) = 1.16 W/kg

SAR(1 g) = 0.458 mW/g; SAR(10 g) = 0.191 mW/g

Maximum value of SAR (measured) = 0.627 mW/g

SAR/002: Back of Display of EUT WiFi 2.4GHz 802.11b SISO Ant WF1 CH6
Date: 20/07/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1708; Model No: A1708



0 dB = 0.031mW/g

Communication System: WLAN; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 2.01$ mho/m; $\epsilon_r = 51$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3814; ConvF(7.04, 7.04, 7.04);
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1435; Calibrated: 30/05/2016
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1235
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Display Side - Bodyworn - PBx/Area Scan (131x131x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 0.039 mW/g

Display Side - Bodyworn - PBx/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.03 V/m; Power Drift = -0.099 dB

Peak SAR (extrapolated) = 0.049 W/kg

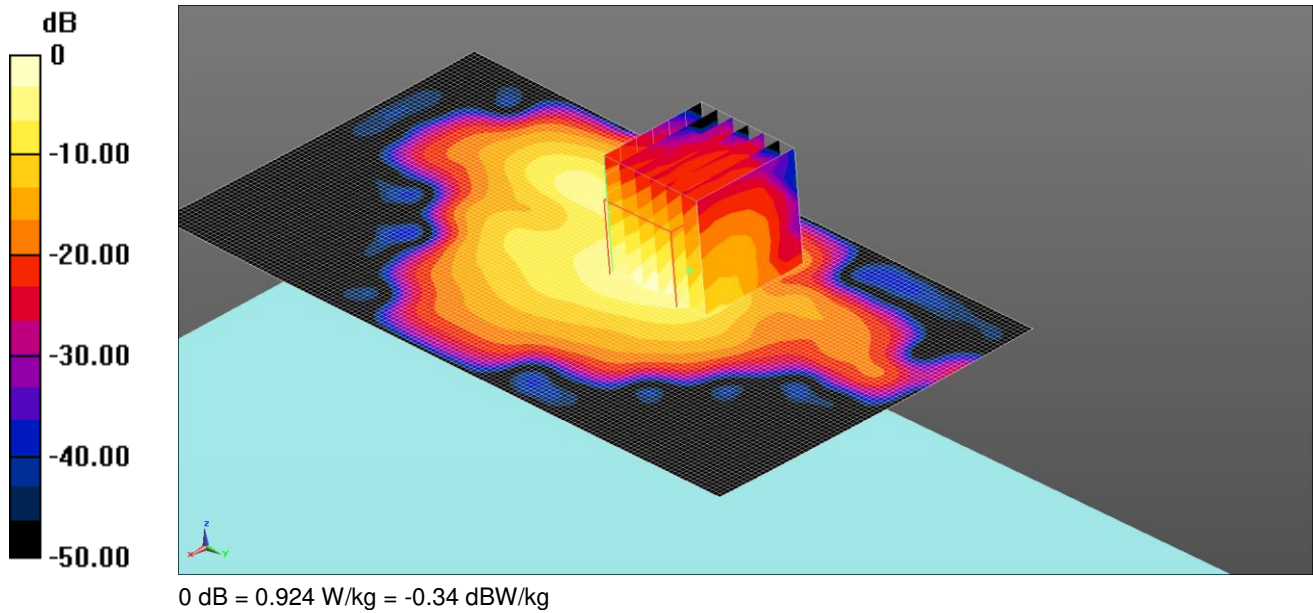
SAR(1 g) = 0.024 mW/g; SAR(10 g) = 0.00956 mW/g

Maximum value of SAR (measured) = 0.031 mW/g

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

SAR/003: Back of EUT WiFi 2.4GHz 802.11b SISO Ant WF2 CH6
Date: 09/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1708; Model No: A1708



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

DASY4 Configuration:

- Probe: EX3DV4 - SN3995; ConvF(7.54, 7.54, 7.54); Calibrated: 26/04/2016;
- Sensor-Surface: 3mm (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 (81x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.924 W/kg

Configuration/Back - Bodyworn - PBx/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 21.50 V/m; Power Drift = 0.04 dB

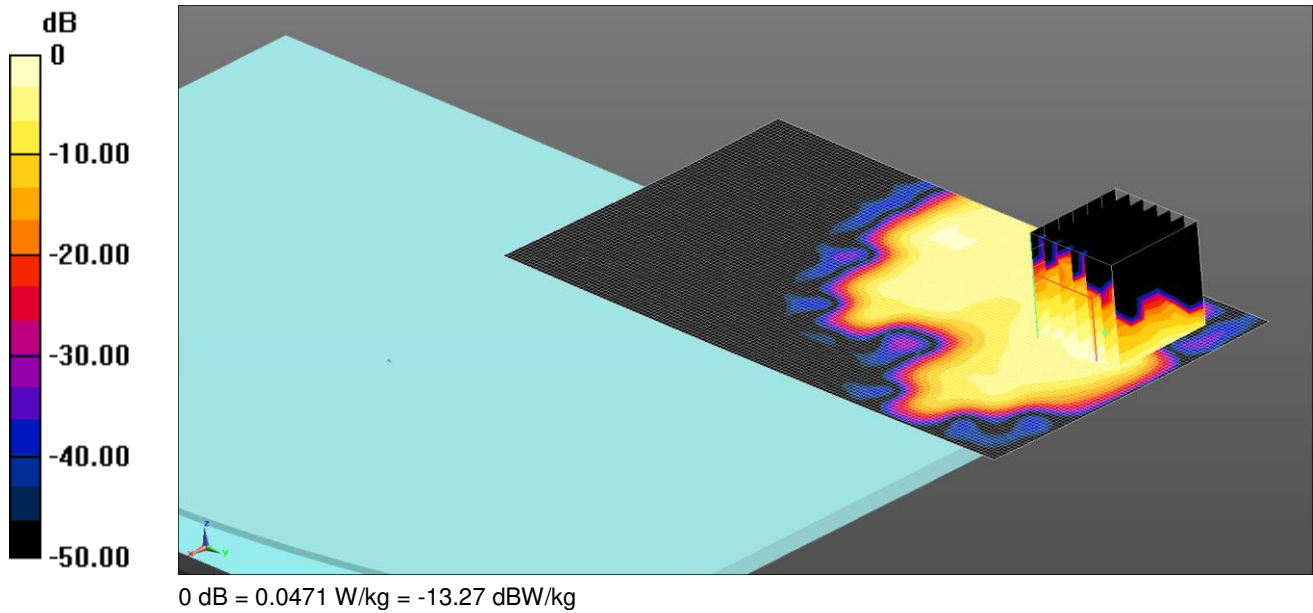
Peak SAR (extrapolated) = 2.16 W/kg

SAR(1 g) = 0.701 W/kg; SAR(10 g) = 0.270 W/kg

Maximum value of SAR (measured) = 0.947 W/kg

SAR/004: Back of Display of EUT WiFi 2.4GHz 802.11b SISO Ant WF2 CH6
Date: 09/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1708; Model No: A1708



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
DASY4 Configuration:
- Probe: EX3DV4 - SN3995; ConvF(7.54, 7.54, 7.54); Calibrated: 26/04/2016;
- Sensor-Surface: 3mm (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/Area Scan (81x151x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm
Maximum value of SAR (interpolated) = 0.0471 W/kg

Configuration/Display - Bodyworn - PBx/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 21.56 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.0460 W/kg

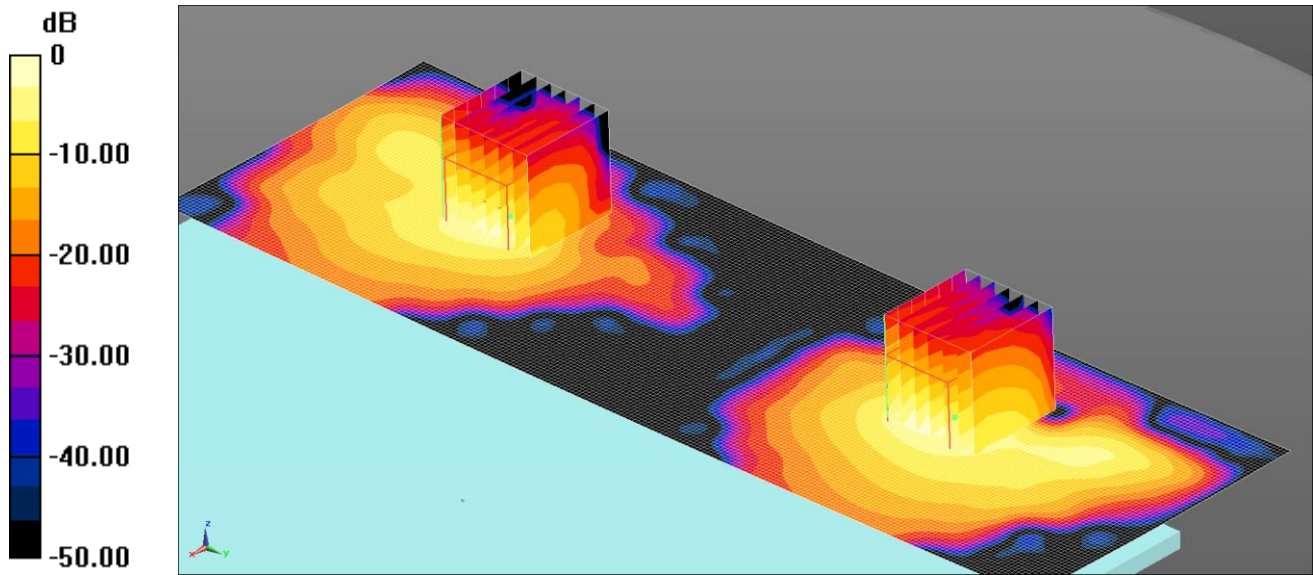
SAR(1 g) = 0.020 W/kg; SAR(10 g) = 0.00874 W/kg

Maximum value of SAR (measured) = 0.0261 W/kg

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

SAR/005: Back of EUT WiFi 2.4GHz 802.11b MIMO Ant WF1 + WF2 CH10
Date: 09/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1708; Model No: A1708



0 dB = 1.22 W/kg = 0.86 dBW/kg

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

DASY4 Configuration:

- Probe: EX3DV4 - SN3995; ConvF(7.54, 7.54, 7.54); Calibrated: 26/04/2016;
- Sensor-Surface: 3mm (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 (81x251x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.22 W/kg

Configuration/Back - Bodyworn - PBx/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 21.26 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 2.37 W/kg

SAR(1 g) = 0.778 W/kg; SAR(10 g) = 0.297 W/kg

Maximum value of SAR (measured) = 1.18 W/kg

Configuration/Back - Bodyworn - PBx/Zoom Scan (5x5x7) 2 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 21.26 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.68 W/kg

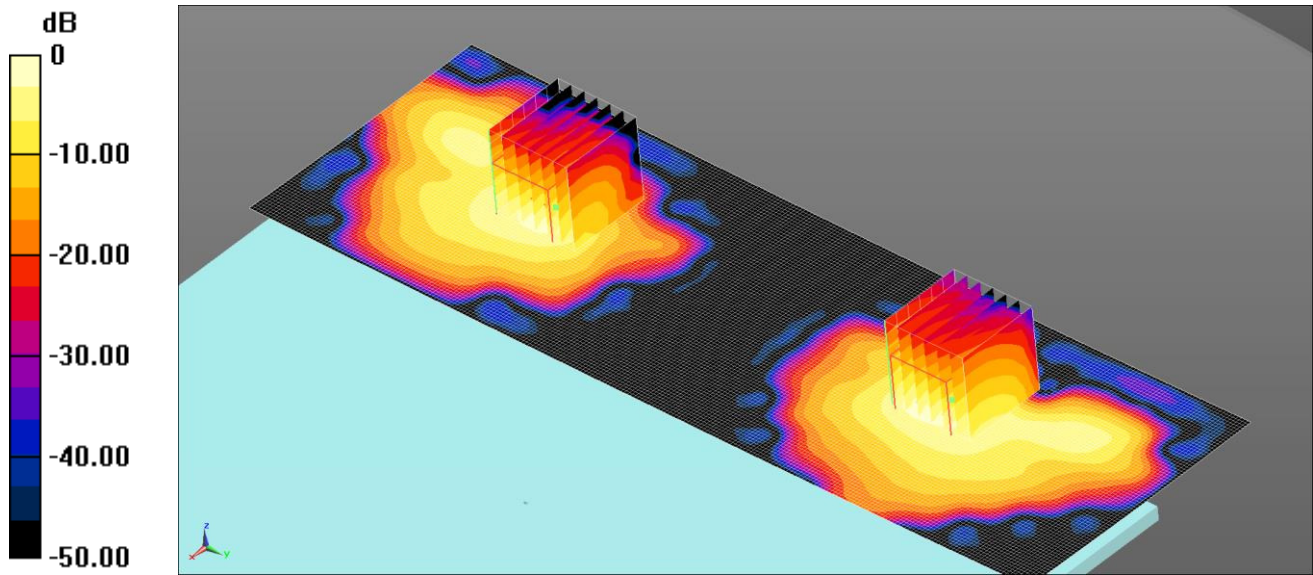
SAR(1 g) = 0.570 W/kg; SAR(10 g) = 0.221 W/kg.

Maximum value of SAR (measured) = 0.861 W/kg

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

SAR/006: Back of EUT WiFi 2.4GHz 802.11b MIMO Ant WF1 + WF2 CH2
Date: 09/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1708; Model No: A1708



0 dB = 0.863 W/kg = -0.64 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 2417 MHz; Duty Cycle: 1:1

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2417$ MHz; $\sigma = 2$ S/m; $\epsilon_r = 50.313$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3995; ConvF(7.54, 7.54, 7.54); Calibrated: 26/04/2016;
- Sensor-Surface: 3mm (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 (81x251x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

Configuration/Back - Bodyworn - PBx/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.331 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.96 W/kg

SAR(1 g) = 0.647 W/kg; SAR(10 g) = 0.253 W/kg

Maximum value of SAR (measured) = 0.992 W/kg

Configuration/Back - Bodyworn - PBx/Zoom Scan (5x5x7) 2 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.331 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.55 W/kg

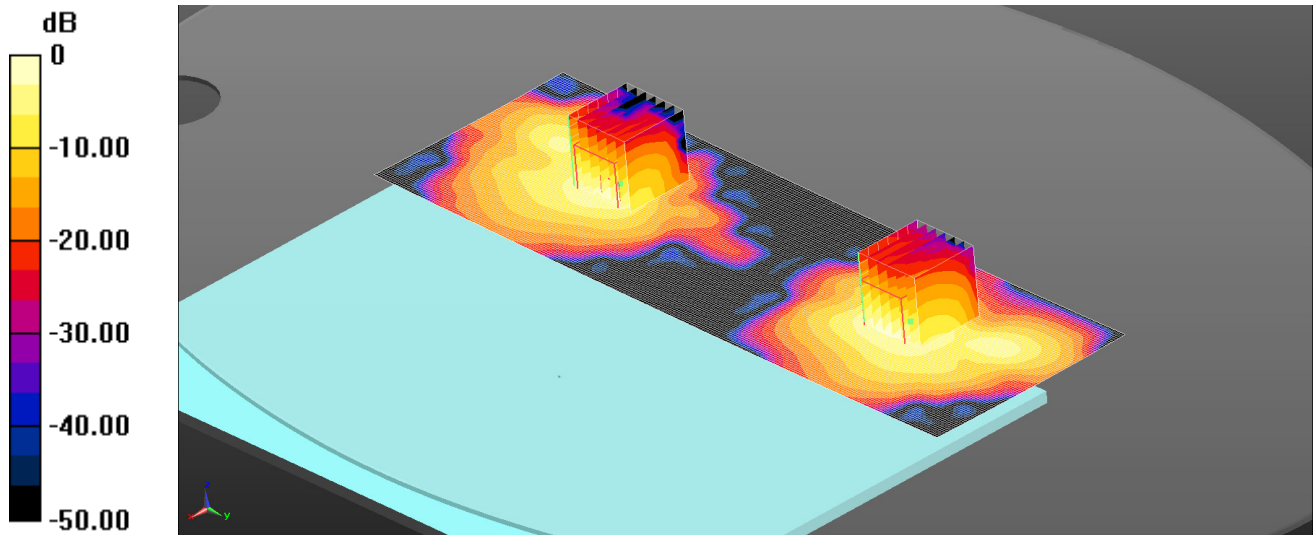
SAR(1 g) = 0.514 W/kg; SAR(10 g) = 0.204 W/kg

Maximum value of SAR (measured) = 0.785 W/kg

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

SAR/007: Back of EUT WiFi 2.4GHz 802.11b MIMO Ant WF1 + WF2 CH6
Date: 12/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1708; Model No: A1708



0 dB = 1.06 W/kg = 0.25 dBW/kg

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; $\sigma = 2.032$ S/m; $\epsilon_r = 50.228$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
DASY4 Configuration:

- Probe: EX3DV4 - SN3995; ConvF(7.54, 7.54, 7.54); Calibrated: 26/04/2016;
- Sensor-Surface: 3mm (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 (81x251x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

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

Configuration/Back - Bodyworn - PBx/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 23.54 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 2.31 W/kg

SAR(1 g) = 0.766 W/kg; SAR(10 g) = 0.301 W/kg

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

Configuration/Back - Bodyworn - PBx/Zoom Scan (5x5x7) 2 (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 23.54 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.55 W/kg

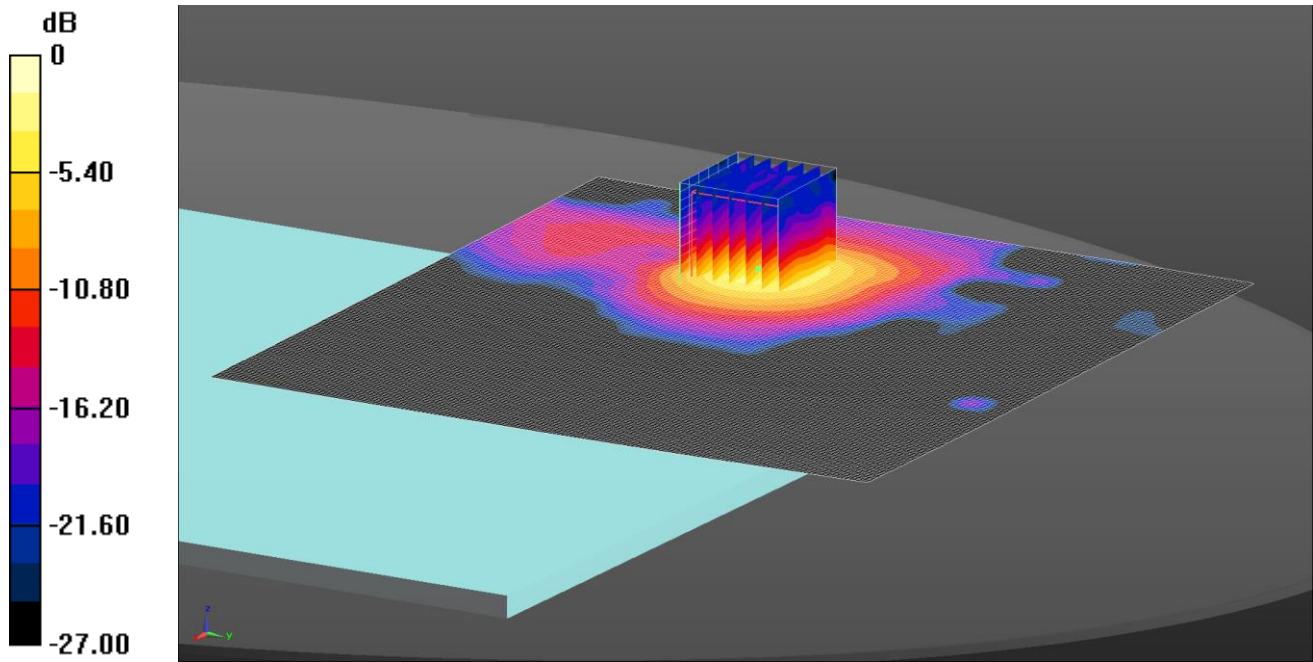
SAR(1 g) = 0.523 W/kg; SAR(10 g) = 0.205 W/kg

Maximum value of SAR (measured) = 0.767 W/kg

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

SAR/008: Back of EUT WiFi 5GHz 802.11n HT40 SISO Ant WF1 CH38
Date: 27/07/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1708; Model No: A1708



0 dB = 1.57 W/kg = 1.96 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; $\sigma = 5.154$ S/m; $\epsilon_r = 48.957$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3814; ConvF(4.24, 4.24, 4.24); Calibrated: 06/10/2015;
- Sensor-Surface: 3mm (Mechanical Surface Detection), 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 (161x161x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 1.17 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 = 8.508 V/m; Power Drift = -0.02 dB

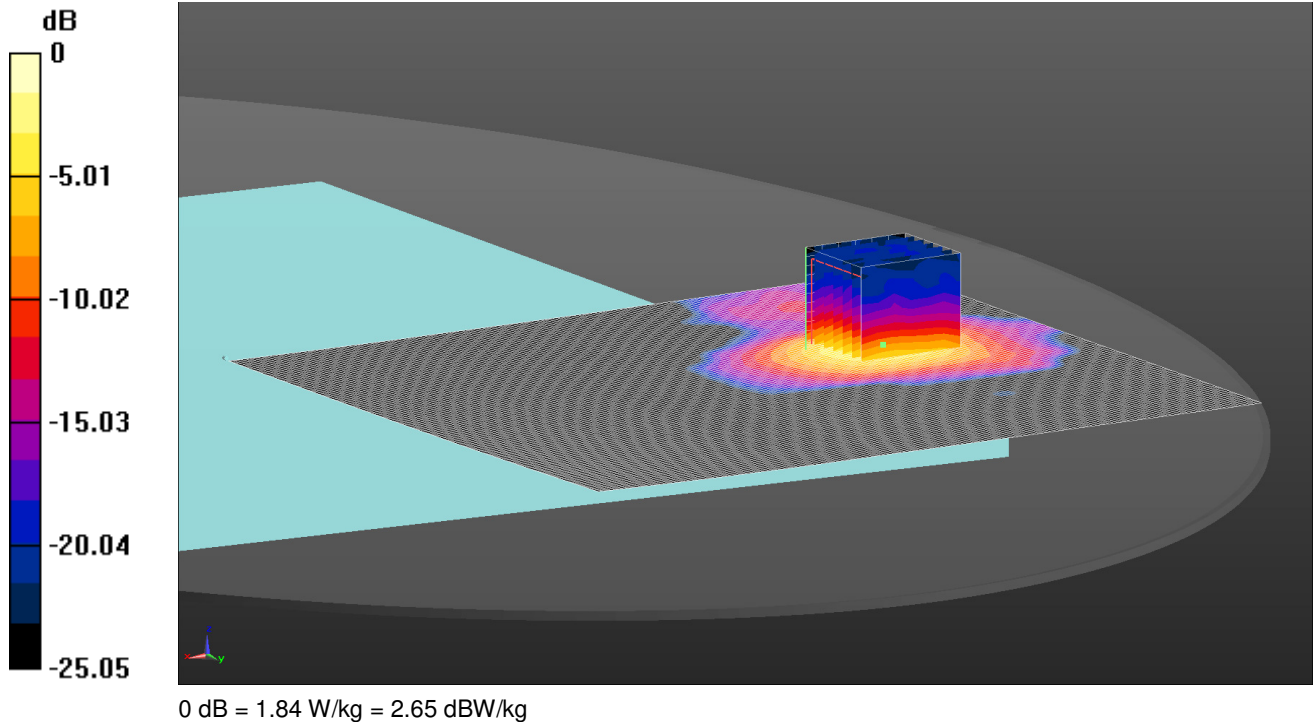
Peak SAR (extrapolated) = 2.92 W/kg

SAR(1 g) = 0.828 W/kg; SAR(10 g) = 0.301 W/kg

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

SAR/009: Back of EUT WiFi 5GHz 802.11n HT40 SISO Ant WF1 CH46
Date: 27/07/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1708; Model No: A1708



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; $\sigma = 5.213$ S/m; $\epsilon_r = 48.863$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3814; ConvF(4.24, 4.24, 4.24); Calibrated: 06/10/2015;
- Sensor-Surface: 3mm (Mechanical Surface Detection), 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 (161x161x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm
Maximum value of SAR (interpolated) = 1.39 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 = 9.075 V/m; Power Drift = -0.13 dB

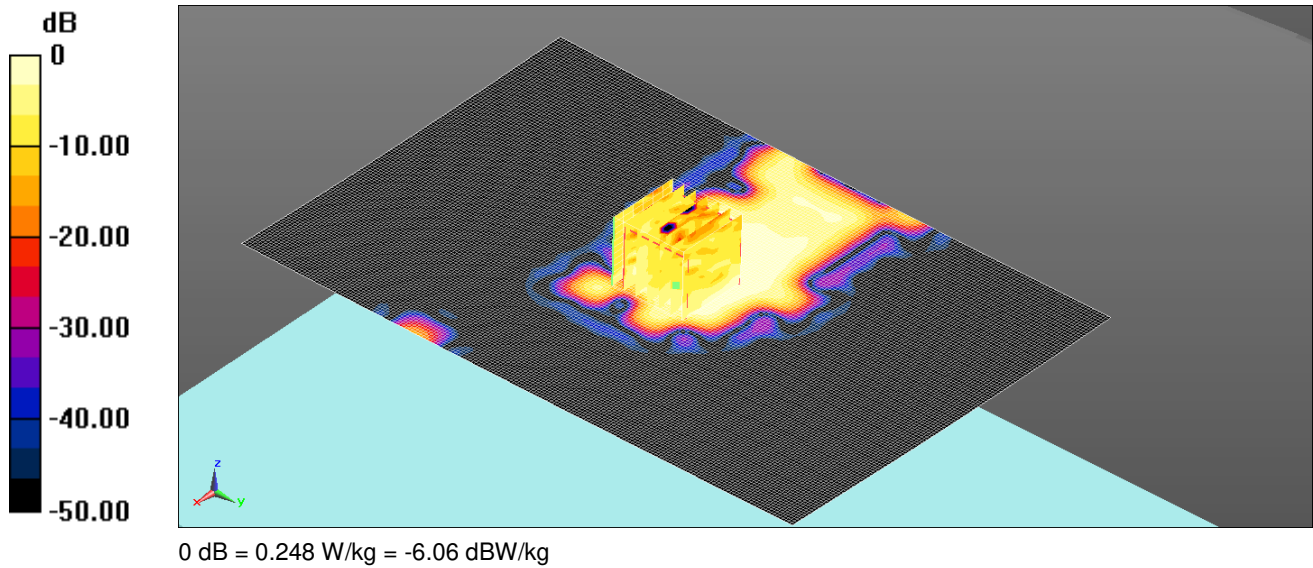
Peak SAR (extrapolated) = 3.56 W/kg

SAR(1 g) = 0.990 W/kg; SAR(10 g) = 0.360 W/kg

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

SAR/010: Back of Display of EUT WiFi 5GHz 802.11n HT20 SISO Ant WF1 CH38
Date: 07/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1708; Model No: A1708



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

DASY4 Configuration:

- Probe: EX3DV4 - SN3994; ConvF(4.38, 4.38, 4.38); Calibrated: 21/03/2016;
- Sensor-Surface: 3mm (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/Display side of EUT - Bodyworn - PBx/Area Scan (131x191x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 0.359 W/kg

Configuration/Display side of EUT - Bodyworn - PBx/Zoom Scan (5x5x7) (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 6.293 V/m; Power Drift = -0.20 dB

Peak SAR (extrapolated) = 1.71 W/kg

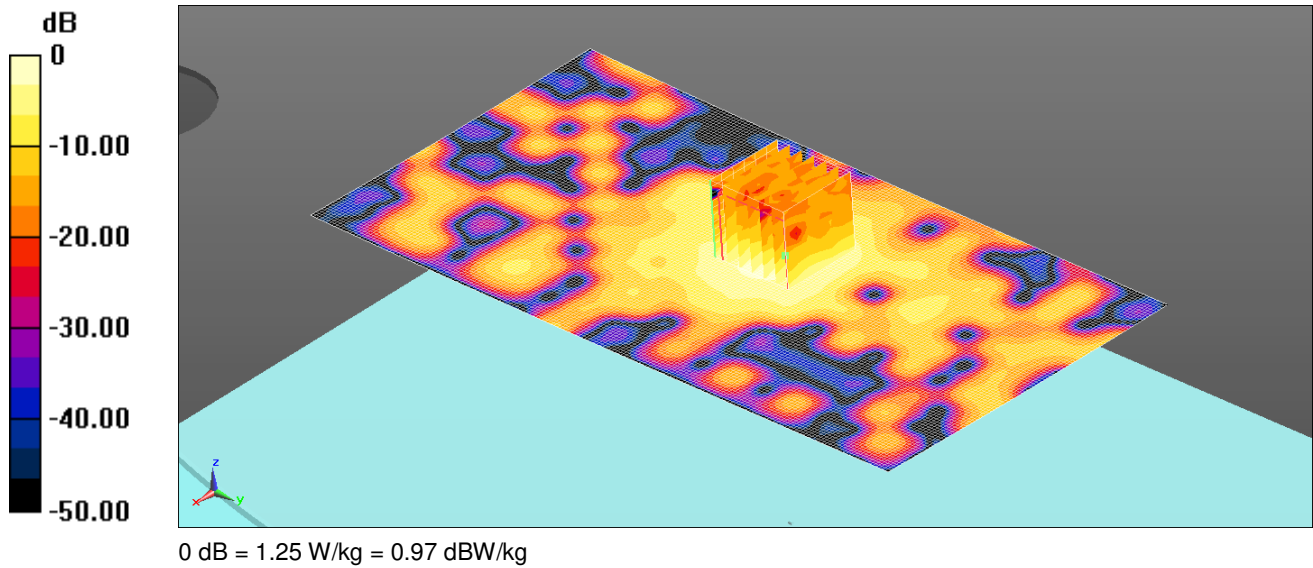
SAR(1 g) = 0.155 W/kg; SAR(10 g) = 0.057 W/kg

Maximum value of SAR (measured) = 0.248 W/kg

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

SAR/011: Back of EUT WiFi 5GHz 802.11n HT40 SISO Ant WF2 CH46
Date: 08/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1708; Model No: A1708



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

DASY4 Configuration:

- Probe: EX3DV4 - SN3994; ConvF(4.38, 4.38, 4.38); Calibrated: 21/03/2016;
- Sensor-Surface: 3mm (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/Area Scan (101x191x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 1.19 W/kg

Configuration/Back - Bodyworn - PBx/Zoom Scan (5x5x7) (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 16.41 V/m; Power Drift = 0.00 dB

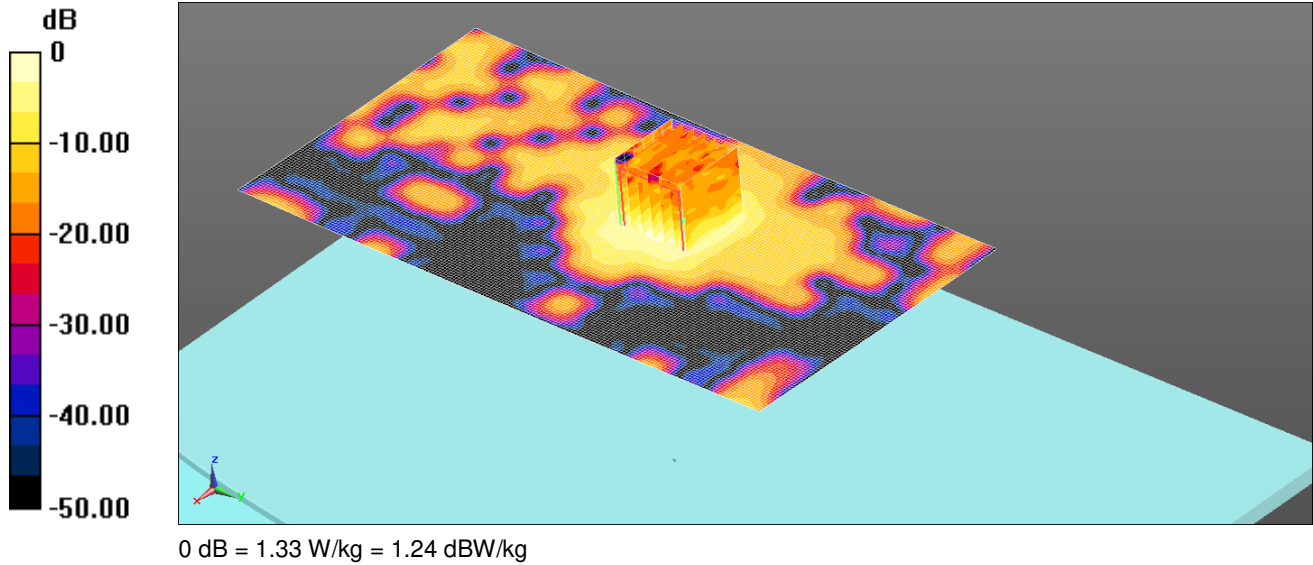
Peak SAR (extrapolated) = 3.04 W/kg

SAR(1 g) = 0.877 W/kg; SAR(10 g) = 0.302 W/kg

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

SAR/012: Back of EUT WiFi 5GHz 802.11n HT40 SISO Ant WF2 CH38
Date: 08/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1708; Model No: A1708



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

DASY4 Configuration:

- Probe: EX3DV4 - SN3994; ConvF(4.38, 4.38, 4.38); Calibrated: 21/03/2016;
- Sensor-Surface: 3mm (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/Area Scan (101x191x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 1.30 W/kg

Configuration/Back - Bodyworn - PBx/Zoom Scan (5x5x7) (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 13.15 V/m; Power Drift = 0.12 dB

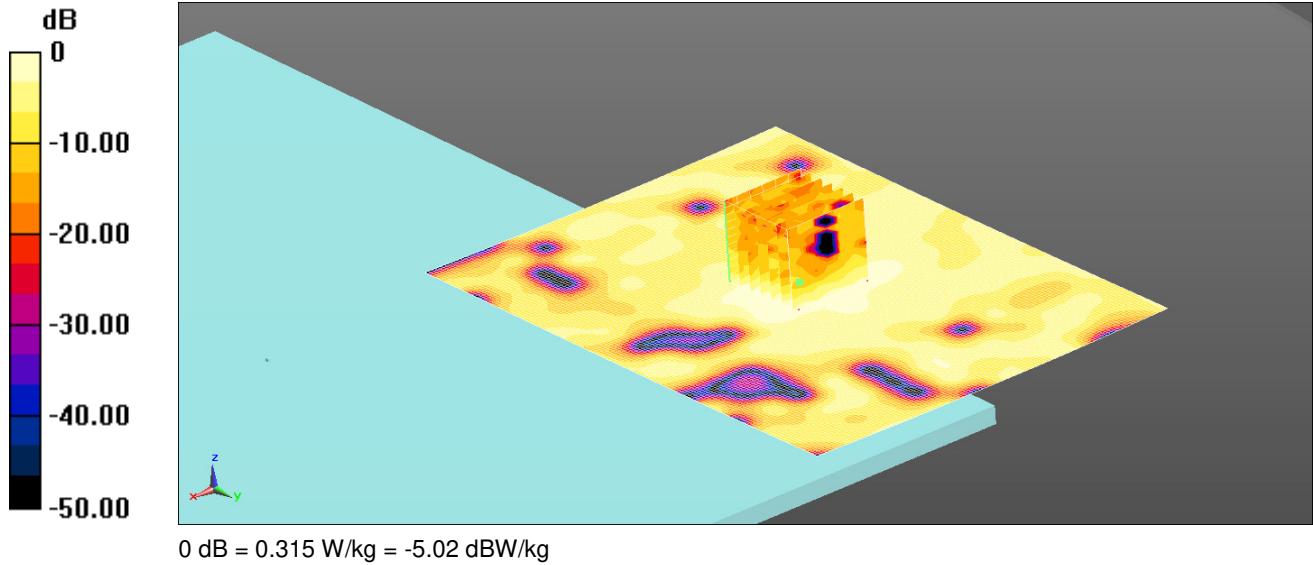
Peak SAR (extrapolated) = 3.10 W/kg

SAR(1 g) = 0.915 W/kg; SAR(10 g) = 0.321 W/kg

Maximum value of SAR (measured) = 1.33 W/kg

SAR/013: Back of Display of EUT WiFi 5GHz 802.11n HT40 SISO Ant WF2 CH46
Date: 08/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1708; Model No: A1708



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
DASY4 Configuration:
- Probe: EX3DV4 - SN3994; ConvF(4.38, 4.38, 4.38); Calibrated: 21/03/2016;
- Sensor-Surface: 3mm (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/Display - Bodyworn - PBx 2/Area Scan (111x151x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm
Maximum value of SAR (interpolated) = 0.327 W/kg

Configuration/Display - Bodyworn - PBx 2/Zoom Scan (5x5x7) (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 7.386 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.839 W/kg

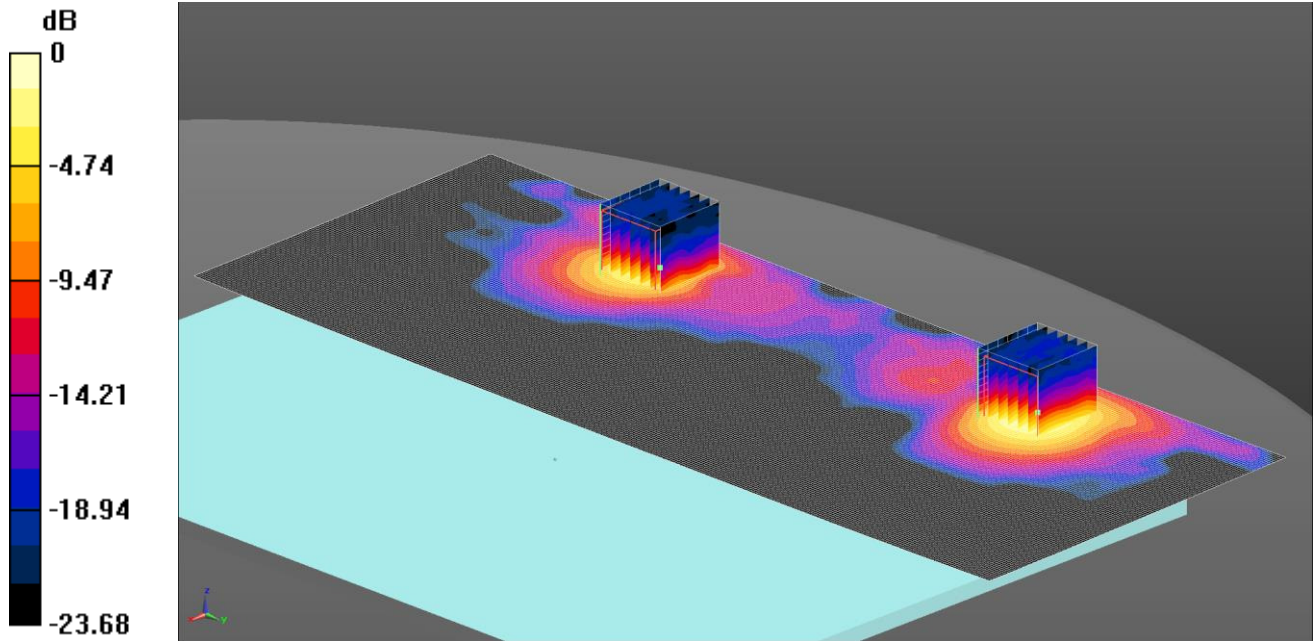
SAR(1 g) = 0.212 W/kg; SAR(10 g) = 0.089 W/kg

Maximum value of SAR (measured) = 0.315 W/kg

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

SAR/014: Back of EUT WiFi 5GHz 802.11n HT40 MIMO Ant WF1 + WF2 CH46
Date: 27/07/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1708; Model No: A1708



0 dB = 1.56 W/kg = 1.93 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; $\sigma = 5.213$ S/m; $\epsilon_r = 48.863$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3814; ConvF(4.24, 4.24, 4.24); Calibrated: 06/10/2015;
- Sensor-Surface: 3mm (Mechanical Surface Detection), 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 (121x321x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 1.67 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 = 10.18 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 4.25 W/kg

SAR(1 g) = 1.14 W/kg; SAR(10 g) = 0.410 W/kg

Maximum value of SAR (measured) = 2.22 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 = 10.18 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 3.02 W/kg

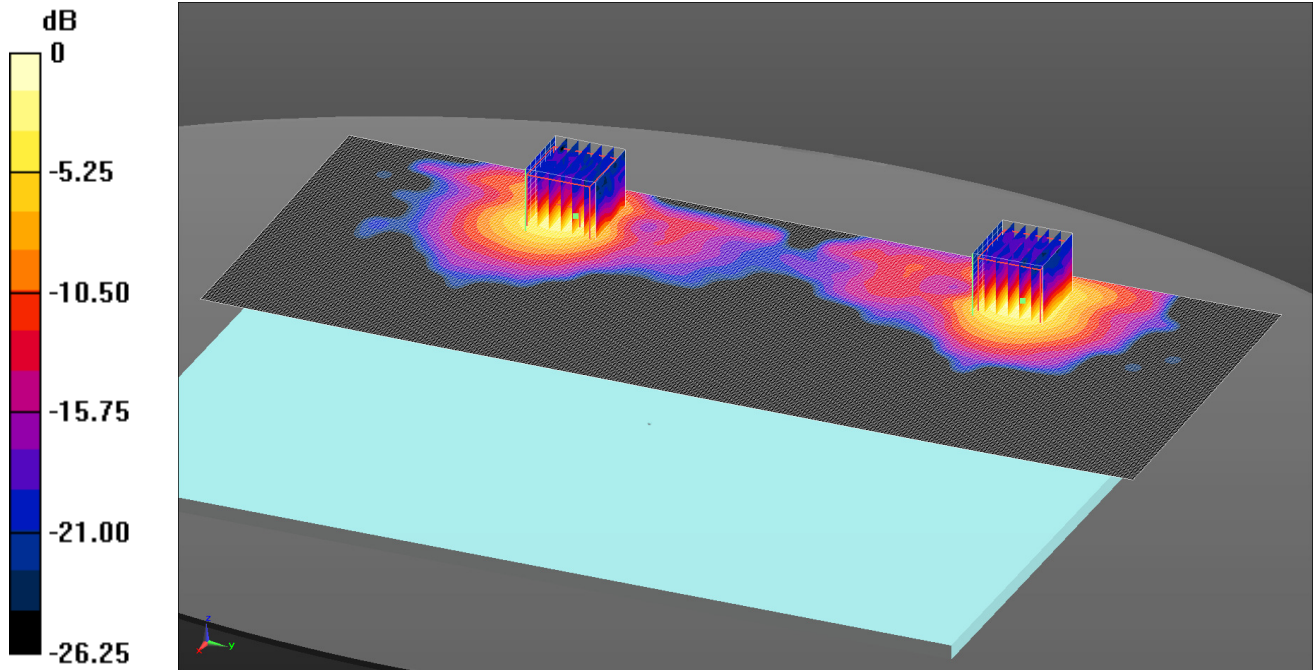
SAR(1 g) = 0.832 W/kg; SAR(10 g) = 0.298 W/kg

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

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

SAR/015: Back of EUT WiFi 5GHz 802.11n HT40 MIMO Ant WF1 + WF2 CH38
Date: 28/07/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1708; Model No: A1708



0 dB = 1.06 W/kg = 0.25 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; $\sigma = 5.154$ S/m; $\epsilon_r = 48.957$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3814; ConvF(4.24, 4.24, 4.24); Calibrated: 06/10/2015;
- Sensor-Surface: 3mm (Mechanical Surface Detection), 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 (121x321x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 0.898 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 = 7.576 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 2.30 W/kg

SAR(1 g) = 0.657 W/kg; SAR(10 g) = 0.239 W/kg

Maximum value of SAR (measured) = 1.20 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 = 7.576 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.95 W/kg

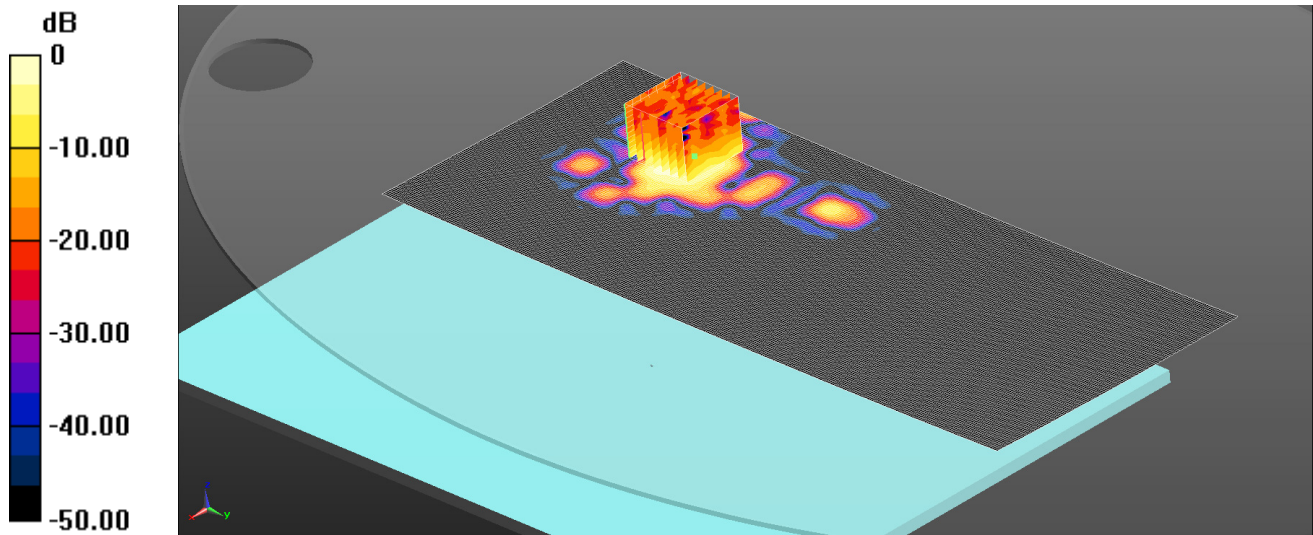
SAR(1 g) = 0.548 W/kg; SAR(10 g) = 0.193 W/kg

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

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

SAR/016: Back of EUT WiFi 5GHz 802.11n HT20 MIMO Ant WF1 + WF2 CH40
Date: 08/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1708; Model No: A1708



0 dB = 1.45 W/kg = 1.61 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; $\sigma = 5.199$ S/m; $\epsilon_r = 50.196$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3994; ConvF(4.38, 4.38, 4.38); Calibrated: 21/03/2016;
- Sensor-Surface: 3mm (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 (121x301x1): 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 (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 10.62 V/m; Power Drift = -0.19 dB

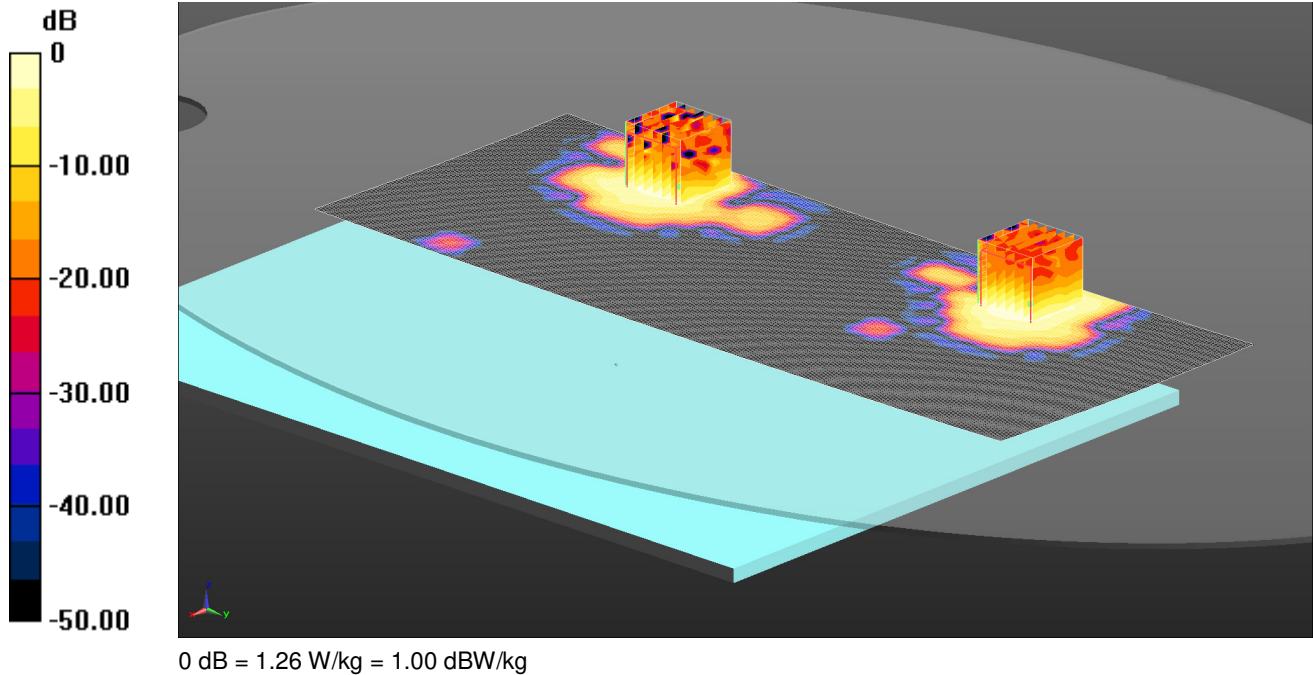
Peak SAR (extrapolated) = 3.35 W/kg

SAR(1 g) = 0.945 W/kg; SAR(10 g) = 0.326 W/kg

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

SAR/017: Back of EUT WiFi 5GHz 802.11n HT20 MIMO Ant WF1 + WF2 CH44
Date: 12/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1708; Model No: A1708



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; $\sigma = 5.174$ S/m; $\epsilon_r = 50.553$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3994; ConvF(4.38, 4.38, 4.38); Calibrated: 21/03/2016;
- Sensor-Surface: 3mm (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/Area Scan (121x301x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 1.44 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 = 10.28 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 4.53 W/kg

SAR(1 g) = 0.946 W/kg; SAR(10 g) = 0.337 W/kg

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

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

Reference Value = 10.28 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 2.94 W/kg

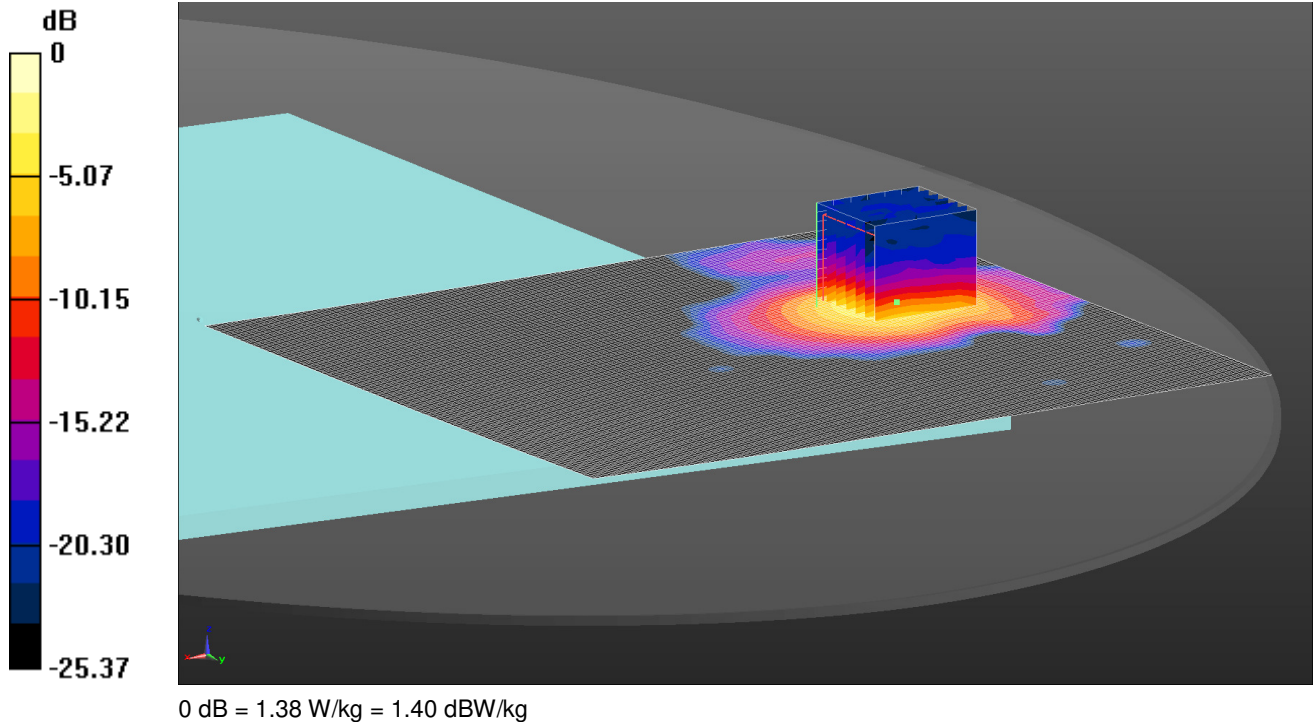
SAR(1 g) = 0.814 W/kg; SAR(10 g) = 0.279 W/kg

Maximum value of SAR (measured) = 1.26 W/kg

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

SAR/018: Back of EUT WiFi 5GHz 802.11ac VHT80 SISO Ant WF1 CH106
Date: 26/07/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1708; Model No: A1708



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; $\sigma = 5.675$ S/m; $\epsilon_r = 48.239$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3814; ConvF(3.81, 3.81, 3.81); Calibrated: 06/10/2015;
- Sensor-Surface: 3mm (Mechanical Surface Detection), 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 (161x161x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm
Maximum value of SAR (interpolated) = 1.09 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 = 7.283 V/m; Power Drift = 0.10 dB

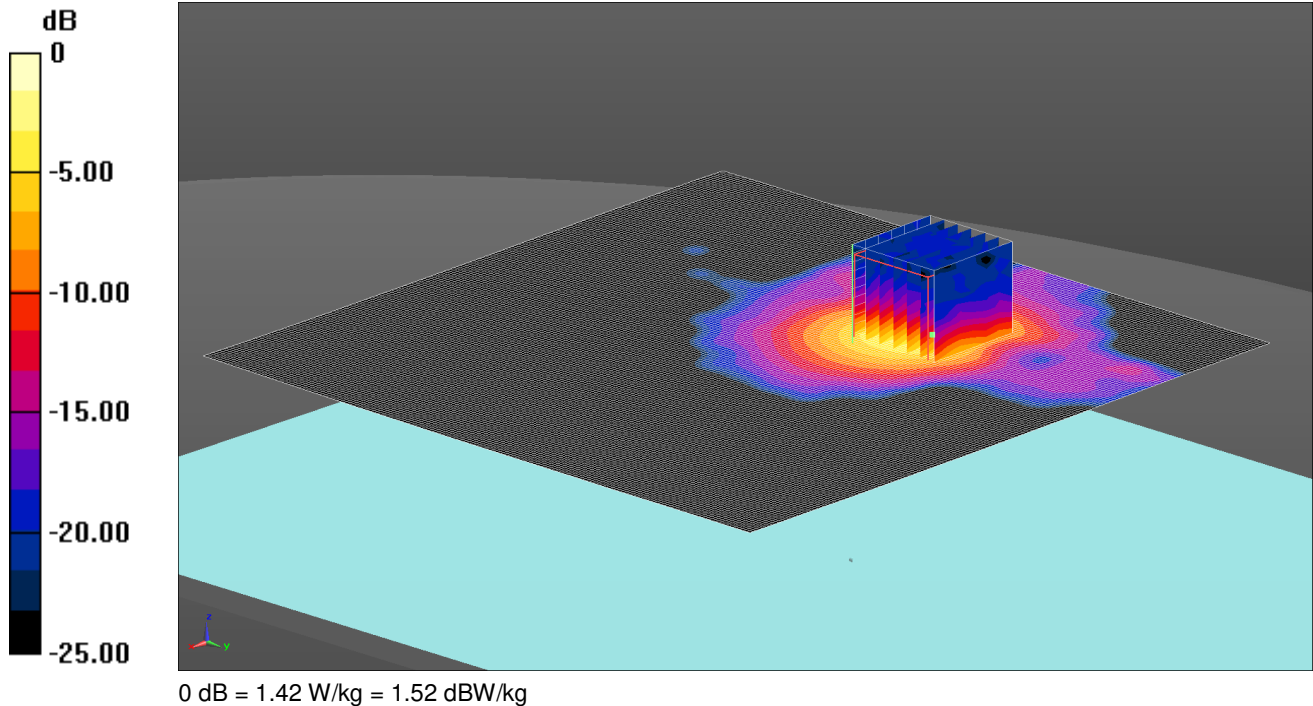
Peak SAR (extrapolated) = 2.74 W/kg

SAR(1 g) = 0.711 W/kg; SAR(10 g) = 0.252 W/kg

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

SAR/019: Back of EUT WiFi 5GHz 802.11ac VHT80 SISO Ant WF2 CH106
Date: 27/07/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1708; Model No: A1708



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; $\sigma = 5.675$ S/m; $\epsilon_r = 48.239$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3814; ConvF(3.81, 3.81, 3.81); Calibrated: 06/10/2015;
- Sensor-Surface: 3mm (Mechanical Surface Detection), 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 (161x161x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 0.947 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 = 4.793 V/m; Power Drift = -0.11 dB

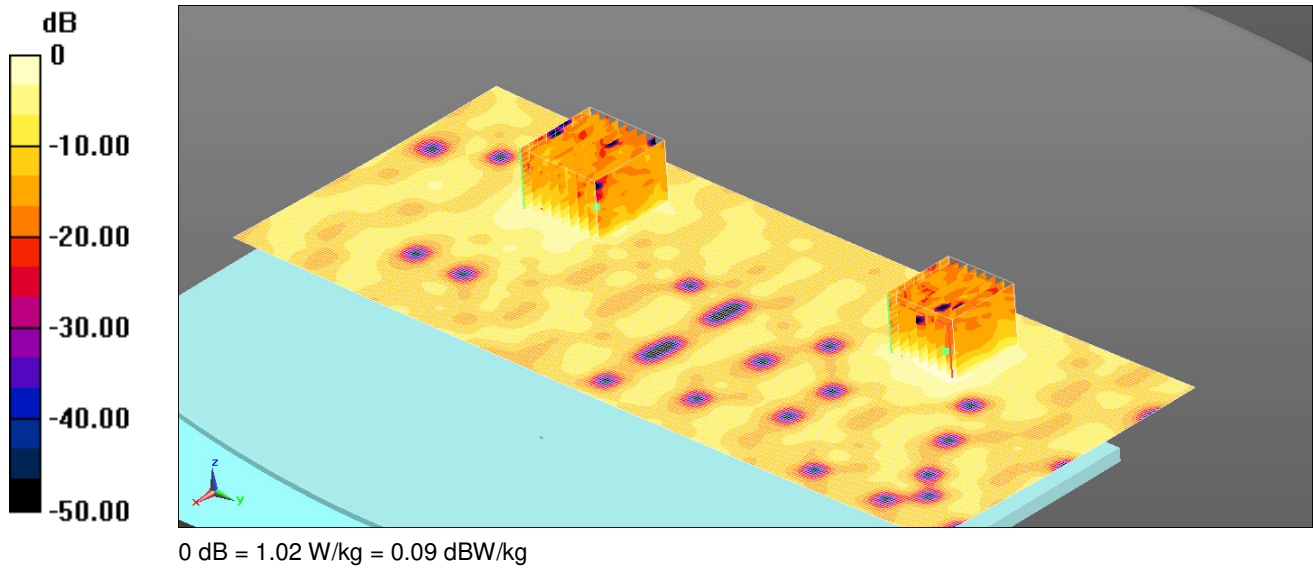
Peak SAR (extrapolated) = 2.85 W/kg

SAR(1 g) = 0.725 W/kg; SAR(10 g) = 0.260 W/kg

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

SAR/020: Back of EUT WiFi 5GHz 802.11ac VHT80 MIMO Ant WF1 + WF2 CH138
Date: 08/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1708; Model No: A1708



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; $\sigma = 5.985$ S/m; $\epsilon_r = 49.311$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3994; ConvF(3.76, 3.76, 3.76); Calibrated: 21/03/2016;
- Sensor-Surface: 3mm (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/Area Scan (121x301x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 1.18 W/kg

Configuration/Back - Bodyworn - PBx/Zoom Scan (8x8x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 13.44 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 2.73 W/kg

SAR(1 g) = 0.758 W/kg; SAR(10 g) = 0.258 W/kg

Maximum value of SAR (measured) = 1.16 W/kg

Configuration/Back - Bodyworn - PBx/Zoom Scan 2 (9x9x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 13.44 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 2.58 W/kg

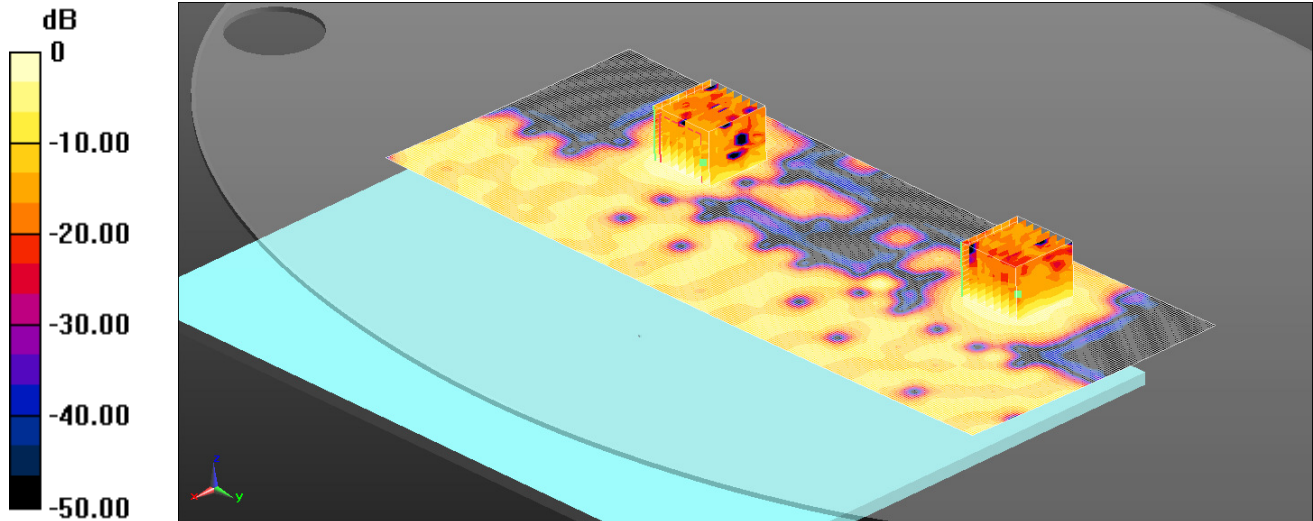
SAR(1 g) = 0.708 W/kg; SAR(10 g) = 0.239 W/kg

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/021: Back of EUT WiFi 5GHz 802.11ac VHT80 MIMO Ant WF1 + WF2 CH106
Date: 08/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1708; Model No: A1708



0 dB = 1.13 W/kg = 0.53 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; $\sigma = 5.715$ S/m; $\epsilon_r = 49.613$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3994; ConvF(3.76, 3.76, 3.76); Calibrated: 21/03/2016;
- Sensor-Surface: 3mm (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/Area Scan (121x301x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.30 W/kg

Configuration/Back - Bodyworn - PBx/Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 14.21 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 2.76 W/kg

SAR(1 g) = 0.836 W/kg; SAR(10 g) = 0.283 W/kg

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

Configuration/Back - Bodyworn - PBx/Zoom Scan 2 (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 14.21 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 2.64 W/kg

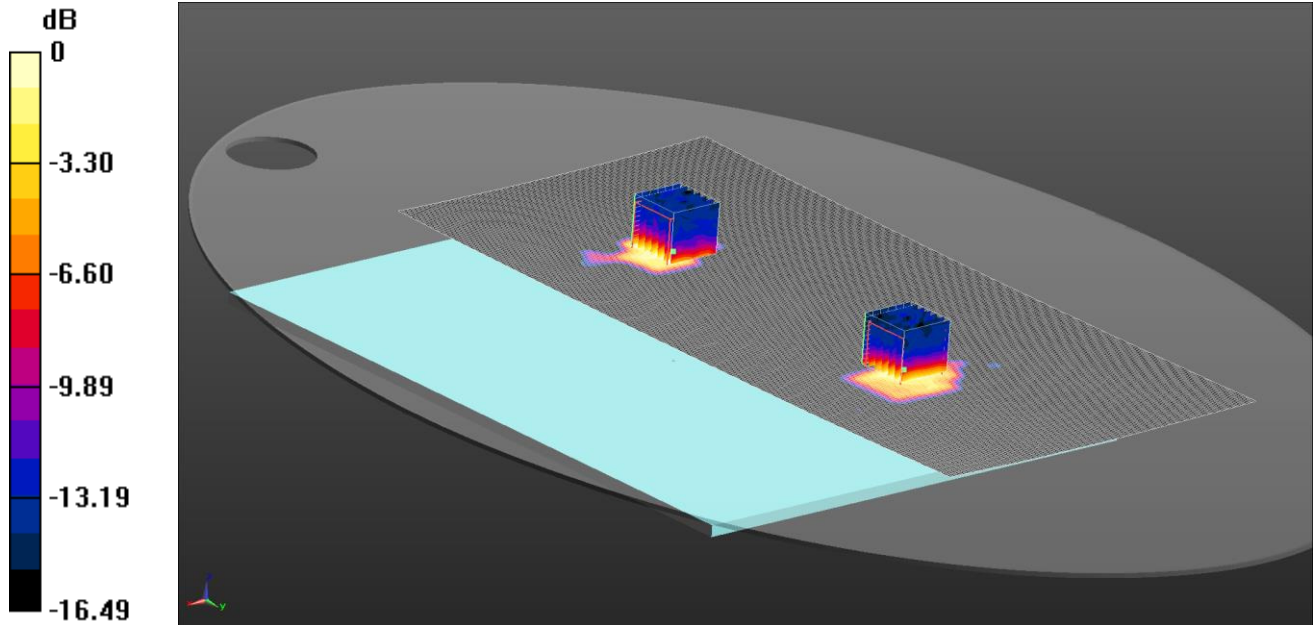
SAR(1 g) = 0.759 W/kg; SAR(10 g) = 0.254 W/kg

Maximum value of SAR (measured) = 1.13 W/kg

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

SAR/022: Back of EUT WiFi 5GHz 802.11n HT40 MIMO Ant WF1 + WF2 CH110
Date: 23/08/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1708; Model No: A1708



0 dB = 1.48 W/kg = 1.70 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; $\sigma = 5.781$ S/m; $\epsilon_r = 46.833$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV4 - SN3994; ConvF(3.76, 3.76, 3.76); Calibrated: 21/03/2016;
- Sensor-Surface: 3mm (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 (161x341x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.71 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (5x5x7) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 16.63 V/m; Power Drift = -0.15dB

Peak SAR (extrapolated) = 3.10 W/kg

SAR(1 g) = 0.973 W/kg; SAR(10 g) = 0.380 W/kg

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

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (5x5x7) (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 16.63 V/m; Power Drift = -0.15dB

Peak SAR (extrapolated) = 3.78 W/kg

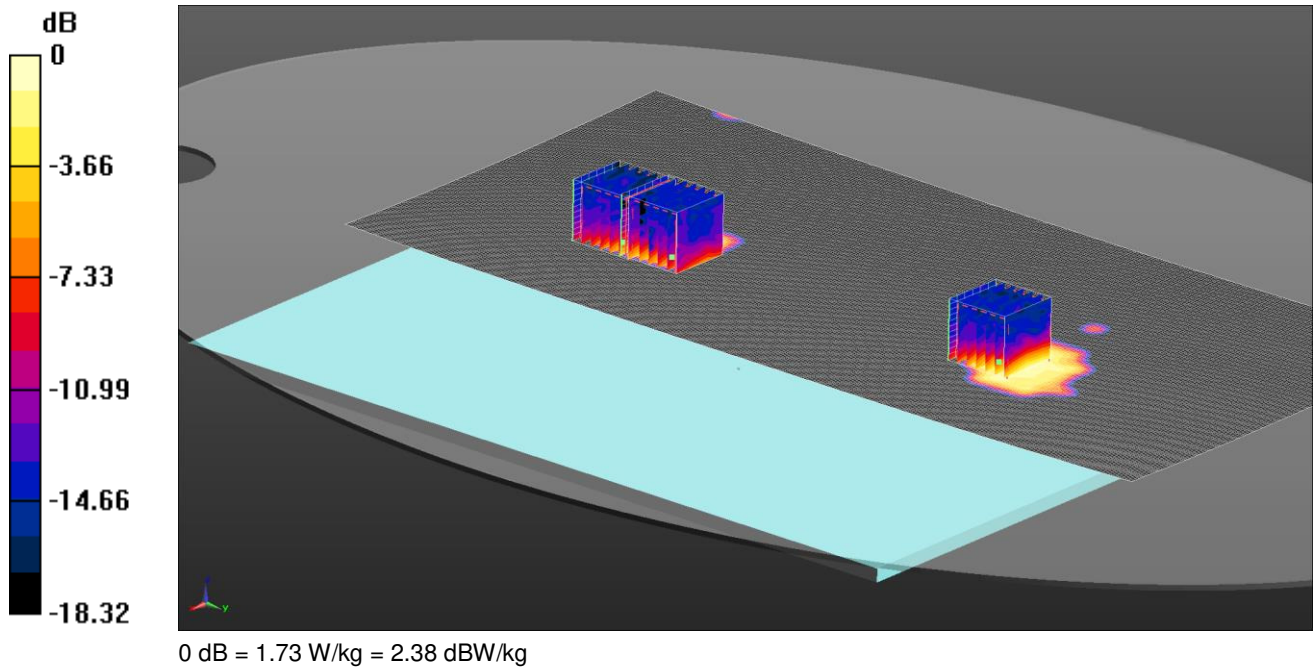
SAR(1 g) = 1.04 W/kg; SAR(10 g) = 0.391 W/kg

Maximum value of SAR (measured) = 1.48 W/kg

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

SAR/023: Back of EUT WiFi 5GHz 802.11n HT40 MIMO Ant WF1 + WF2 CH134
Date: 23/08/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1708; Model No: A1708



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; $\sigma = 5.966$ S/m; $\epsilon_r = 46.557$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3994; ConvF(3.76, 3.76, 3.76); Calibrated: 21/03/2016;
- Sensor-Surface: 1.4mm (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 (161x341x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm
Maximum value of SAR (interpolated) = 2.32 W/kg

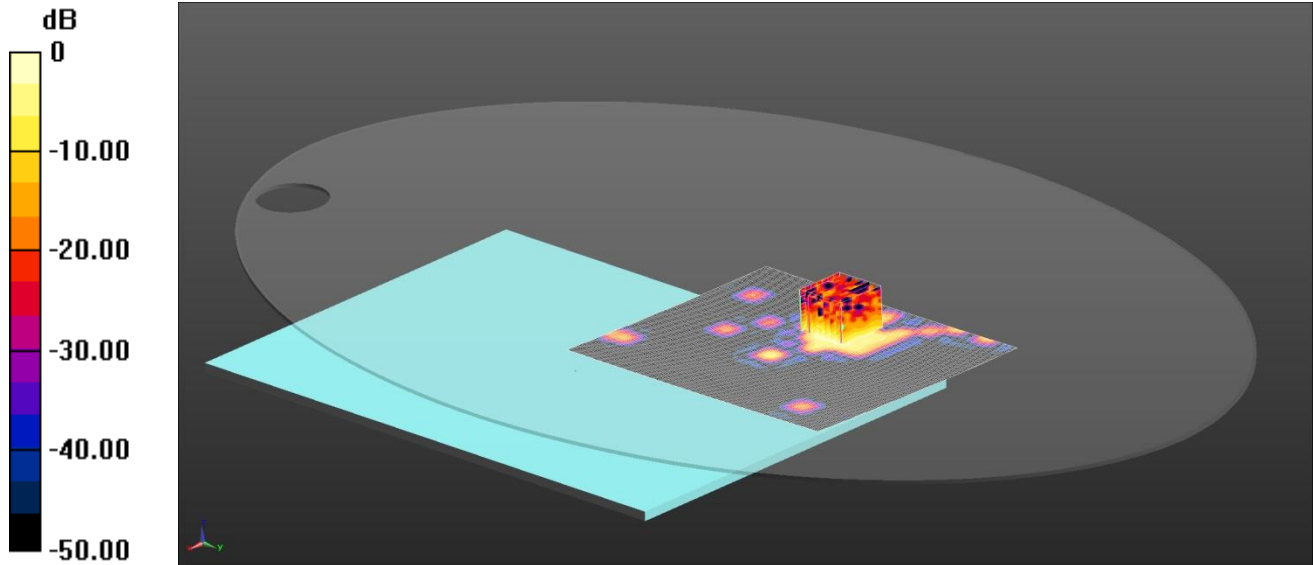
Configuration/Back - Bodyworn - PBx 2/Zoom Scan (5x5x7) (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm
Reference Value = 13.04 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 3.43 W/kg
SAR(1 g) = 0.857 W/kg; SAR(10 g) = 0.293 W/kg
Maximum value of SAR (measured) = 2.09 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (5x5x7) (7x7x12)/Cube 1: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm
Reference Value = 13.04 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 3.33 W/kg
SAR(1 g) = 0.863 W/kg; SAR(10 g) = 0.311 W/kg
Maximum value of SAR (measured) = 2.04 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (5x5x7) (7x7x12)/Cube 2: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm
Reference Value = 13.04 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 2.87 W/kg
SAR(1 g) = 0.605 W/kg; SAR(10 g) = 0.215 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 of EUT WiFi 5GHz 802.11ac VHT80 SISO Ant WF1 CH155
Date: 26/07/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1708; Model No: A1708



0 dB = 1.78 W/kg = 2.50 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; $\sigma = 6.122$ S/m; $\epsilon_r = 48.447$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3994; ConvF(3.99, 3.99, 3.99); Calibrated: 21/03/2016;
- Sensor-Surface: 3mm (Mechanical Surface Detection), 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/Area Scan (141x171x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

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

Configuration/Back - Bodyworn - PBx/Zoom Scan 2 (8x8x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 5.196 V/m; Power Drift = -0.17 dB

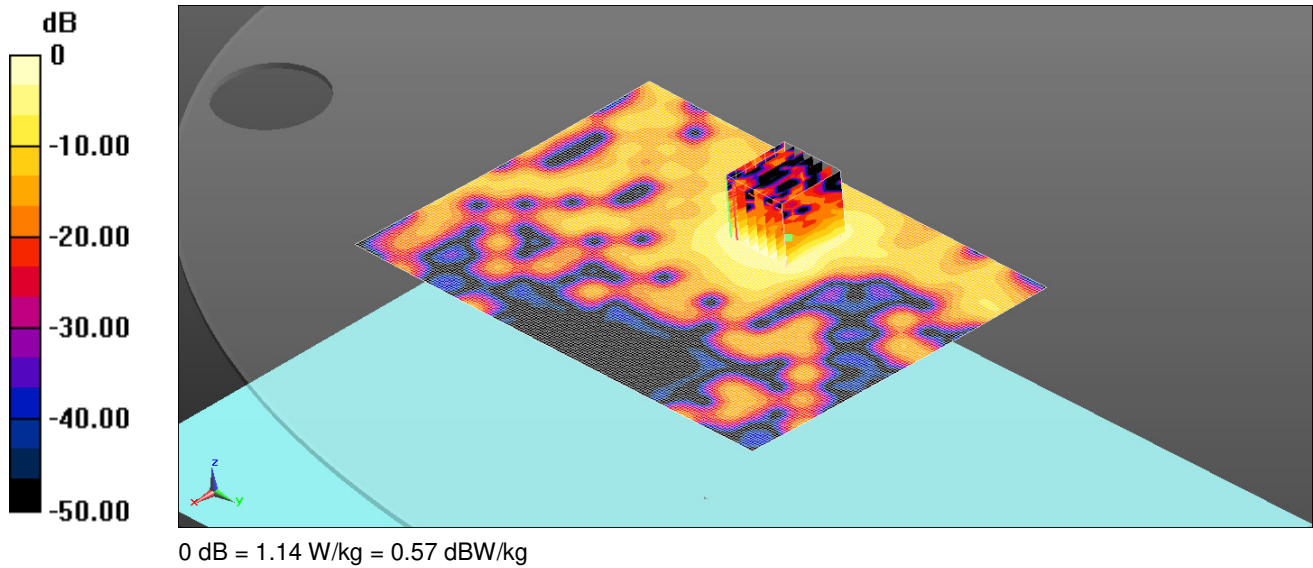
Peak SAR (extrapolated) = 3.37 W/kg

SAR(1 g) = 0.824 W/kg; SAR(10 g) = 0.269 W/kg

Maximum value of SAR (measured) = 1.78 W/kg

SAR/025: Back of EUT WiFi 5GHz 802.11ac VHT80 SISO Ant WF2 CH155
Date: 08/09/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1708; Model No: A1708



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

DASY4 Configuration:

- Probe: EX3DV4 - SN3994; ConvF(3.99, 3.99, 3.99); Calibrated: 21/03/2016;
- Sensor-Surface: 3mm (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/Area Scan (121x171x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 0.995 W/kg

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

Reference Value = 14.06 V/m; Power Drift = -0.02 dB

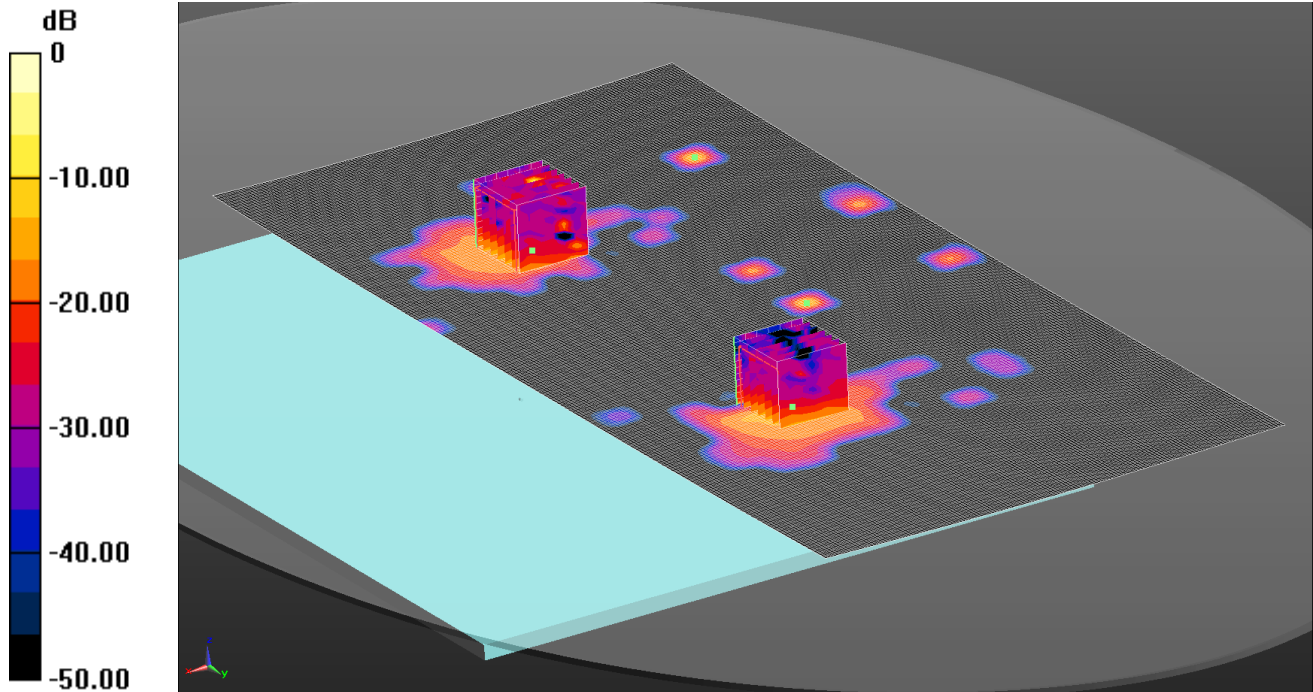
Peak SAR (extrapolated) = 3.23 W/kg

SAR(1 g) = 0.776 W/kg; SAR(10 g) = 0.255 W/kg

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

SAR/026: Back of EUT WiFi 5GHz 802.11ac VHT80 MIMO Ant WF1 + WF2 CH155
Date: 26/07/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1708; Model No: A1708



0 dB = 29.0 W/kg = 14.62 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; $\sigma = 6.122$ S/m; $\epsilon_r = 48.447$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3994; ConvF(3.99, 3.99, 3.99); Calibrated: 21/03/2016;
- Sensor-Surface: 3mm (Mechanical Surface Detection), 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 (161x341x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (5x5x7) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 15.45 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 8.29 W/kg

SAR(1 g) = 0.900 W/kg; SAR(10 g) = 0.293 W/kg

Maximum value of SAR (measured) = 1.83 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (5x5x7) 2 2 (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 15.45 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 29.0 W/kg

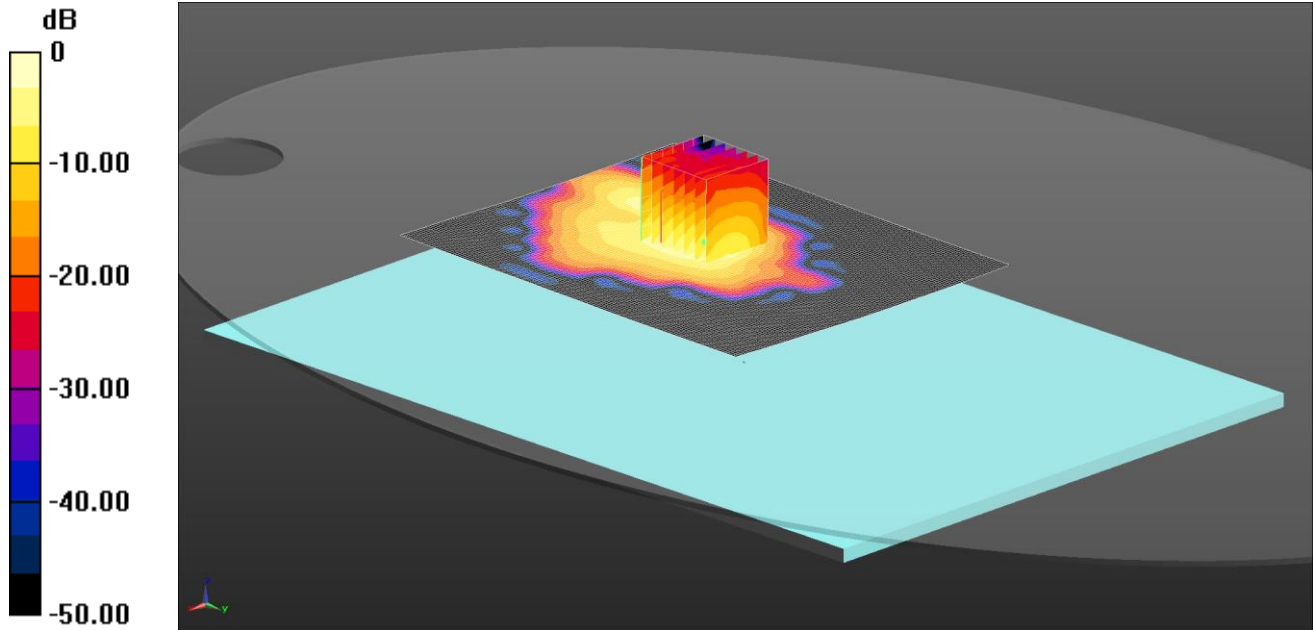
SAR(1 g) = 0.818 W/kg; SAR(10 g) = 0.264 W/kg

Maximum value of SAR (measured) = 29.0 W/kg

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

SAR/027: Back of EUT Bluetooth BDR SISO Ant WF2 CH78
Date: 01/08/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1708; Model No: A1708



0 dB = 0.330 W/kg = -4.81 dBW/kg

Communication System: UID 0, Bluetooth (0); Frequency: 2480 MHz; Duty Cycle: 1:1.29837
Medium: 2.4 GHz MSL Medium parameters used (interpolated): $f = 2480$ MHz; $\sigma = 2.044$ S/m; $\epsilon_r = 51.54$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ES3DV3 - SN3341; ConvF(4.31, 4.31, 4.31); Calibrated: 25/08/2015;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1435; Calibrated: 30/05/2016
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1235
- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Back - Bodyworn - PBx 2/Area Scan 2 (111x131x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.331 W/kg

Configuration/Back - Bodyworn - PBx 2/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 13.45 V/m; Power Drift = 0.00 dB

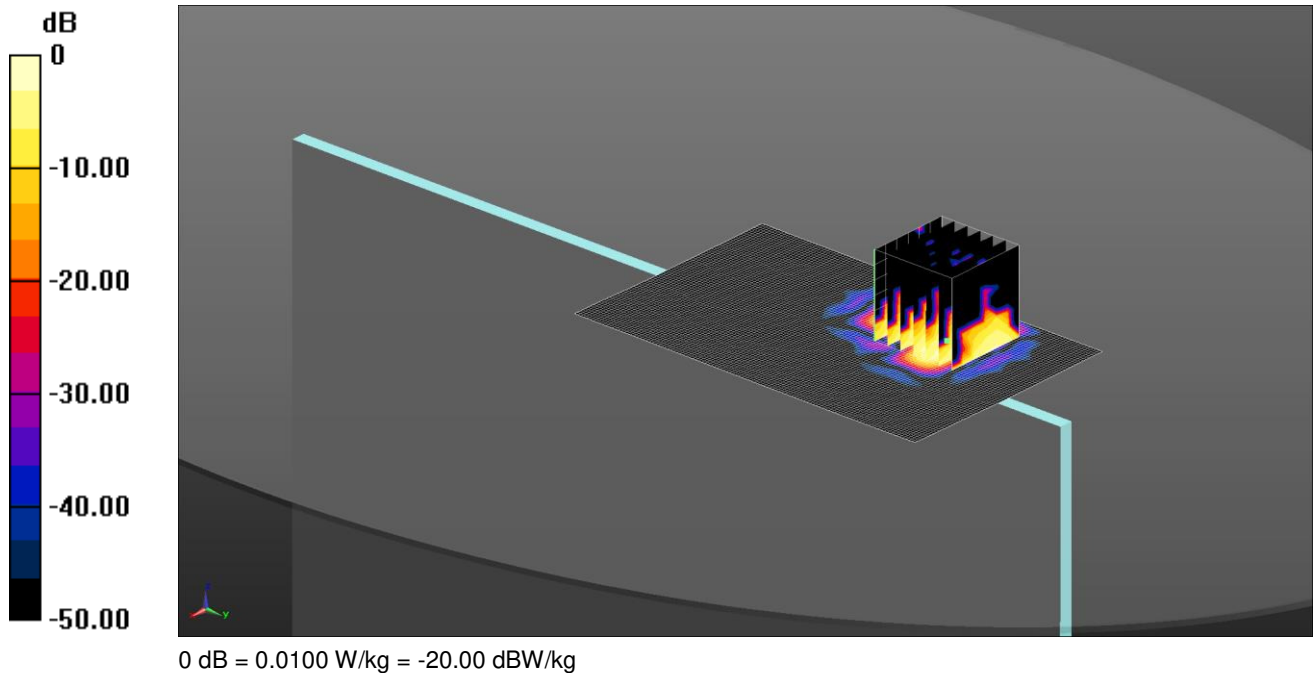
Peak SAR (extrapolated) = 0.734 W/kg

SAR(1 g) = 0.234 W/kg; SAR(10 g) = 0.089 W/kg

Maximum value of SAR (measured) = 0.349 W/kg

SAR/028: Back of Display of EUT Bluetooth BDR SISO Ant WF2 CH78
Date: 02/08/2016

DUT: Apple Inc.; Type: FCC ID: BCGA1708; Model No: A1708



Communication System: UID 0, Bluetooth (0); Frequency: 2480 MHz; Duty Cycle: 1:1.29837

Medium: 2.4 GHz MSL Medium parameters used (interpolated): $f = 2480$ MHz; $\sigma = 2.044$ S/m; $\epsilon_r = 51.54$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3341; ConvF(4.31, 4.31, 4.31); Calibrated: 25/08/2015;

- Sensor-Surface: 3mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn1435; Calibrated: 30/05/2016

- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1235

- ; SEMCAD X Version 14.6.10 (7372)

Configuration/Display Side - Bodyworn - PBx 2/Area Scan 2 (71x111x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.0100 W/kg

Configuration/Display Side - Bodyworn - PBx 2/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 2.002 V/m; Power Drift = 0.24 dB

Peak SAR (extrapolated) = 0.0290 W/kg

SAR(1 g) = 0.00602 W/kg; SAR(10 g) = 0.0022 W/kg

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