

Plot 1

Date/Time: 5/7/2018 8:01:21 PM

Test Laboratory: Microsoft EMC

DUT: 1836; Type: Microsoft Wireless Input Device; Serial: 02560002237814

Communication System: UID 0, CW (0); Frequency: 5260 MHz

Medium parameters used: $f = 5260$ MHz; $\sigma = 5.449$ S/m; $\epsilon_r = 47.135$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3999; ConvF(5.1, 5.1, 5.1); Calibrated: 12/6/2017;
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1445; Calibrated: 11/28/2017
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA001BB; Serial: TP:1218
- DASYS 52.10.0(1444); SEMCAD X 14.6.10(7416)

Flat-Section MSL 5/7/2018 a 5260MHz Diversity Antenna Bottom 0 mm/Area Scan (9x9x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.496 W/kg

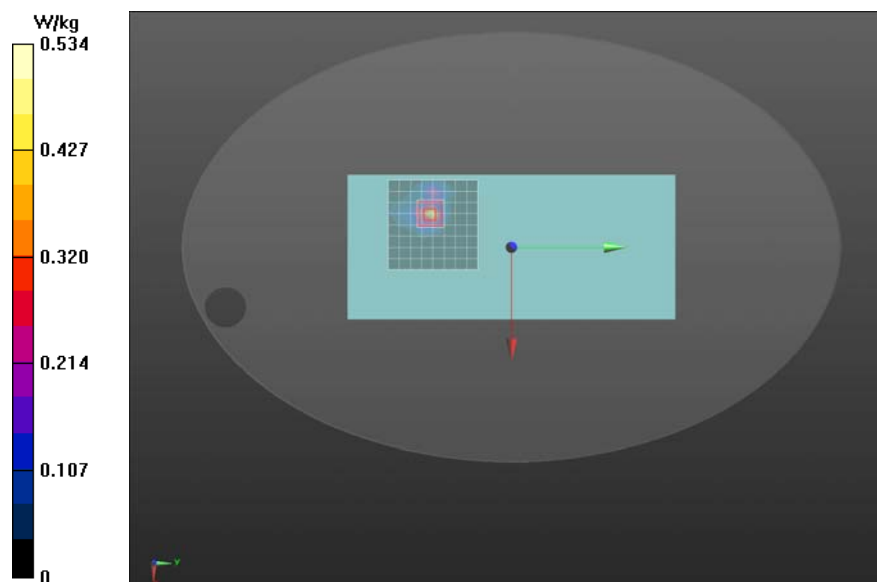
Flat-Section MSL 5/7/2018 a 5260MHz Diversity Antenna Bottom 0 mm/Zoom Scan (7x7x12)/Cube 0:Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 10.34 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.11 W/kg

SAR(1 g) = 0.251 W/kg; SAR(10 g) = 0.069 W/kg

Maximum value of SAR (measured) = 0.534 W/kg



Plot 2

Date/Time: 5/7/2018 7:23:45 PM

Test Laboratory: Microsoft EMC

DUT: 1836; Type: Microsoft Wireless Input Device; Serial: 02560002237814

Communication System: UID 0, CW (0); Frequency: 5640 MHz

Medium parameters used: $f = 5640$ MHz; $\sigma = 5.648$ S/m; $\epsilon_r = 47.555$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3999; ConvF(4.37, 4.37, 4.37); Calibrated: 12/6/2017;
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1445; Calibrated: 11/28/2017
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA001BB; Serial: TP:1218
- DASY52 52.10.0(1444); SEMCAD X 14.6.10(7416)

Flat-Section MSL 5/7/2018 a 5640MHz Diversity Antenna Bottom 0 mm/Area Scan (9x9x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.554 W/kg

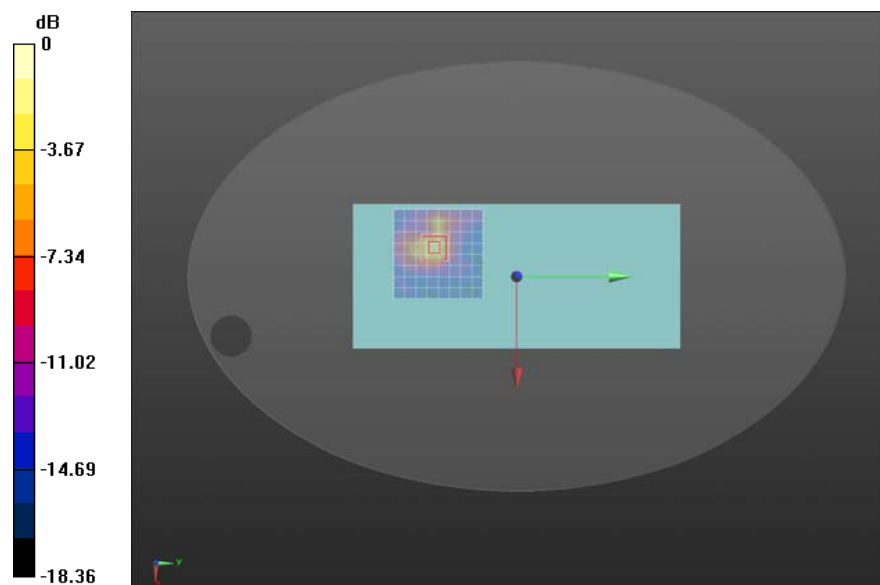
Flat-Section MSL 5/7/2018 a 5640MHz Diversity Antenna Bottom 0 mm/Zoom Scan (7x7x12)/Cube 0:Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 11.37 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 1.70 W/kg

SAR(1 g) = 0.374 W/kg; SAR(10 g) = 0.125 W/kg

Maximum value of SAR (measured) = 0.741 W/kg



Plot 3

Date/Time: 5/7/2018 4:04:16 PM

Test Laboratory: Microsoft EMC

DUT: 1836; Type: Microsoft Wireless Input Device; Serial: 02560002237814

Communication System: UID 0, CW (0); Frequency: 5745 MHz

Medium parameters used: $f = 5745$ MHz; $\sigma = 5.836$ S/m; $\epsilon_r = 47.72$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3999; ConvF(4.51, 4.51, 4.51); Calibrated: 12/6/2017;
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1445; Calibrated: 11/28/2017
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA001BB; Serial: TP:1218
- DASY52 52.10.0(1444); SEMCAD X 14.6.10(7416)

Flat-Section MSL a 5745MHz Diversity Antenna Bottom 0 mm/Area Scan (17x41x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.655 W/kg

Flat-Section MSL a 5745MHz Diversity Antenna Bottom 0 mm/Zoom Scan (7x7x12)/Cube 0: Measurement

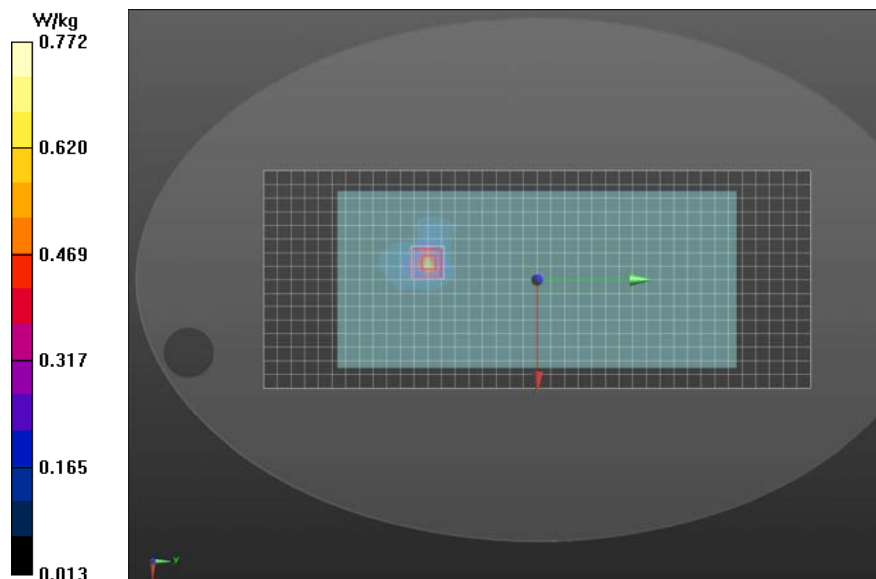
grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 12.08 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.76 W/kg

SAR(1 g) = 0.392 W/kg; SAR(10 g) = 0.127 W/kg

Maximum value of SAR (measured) = 0.772 W/kg



Plot 4

Date/Time: 5/7/2018 12:08:30 PM

Test Laboratory: Microsoft EMC

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1158

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

Medium parameters used (interpolated): $f = 5250$ MHz; $\sigma = 5.445$ S/m; $\epsilon_r = 47.177$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3999; ConvF(5.1, 5.1, 5.1); Calibrated: 12/6/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1445; Calibrated: 11/28/2017
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA001BB; Serial: TP:1218
- DASY52 52.10.0(1444); SEMCAD X 14.6.10(7416)

System Verification @ 5250MHz/Pin=100mW/Area Scan (9x9x1): Measurement grid: $dx=10$ mm, $dy=10$ mm.

Maximum value of SAR (measured) = 9.43 W/kg

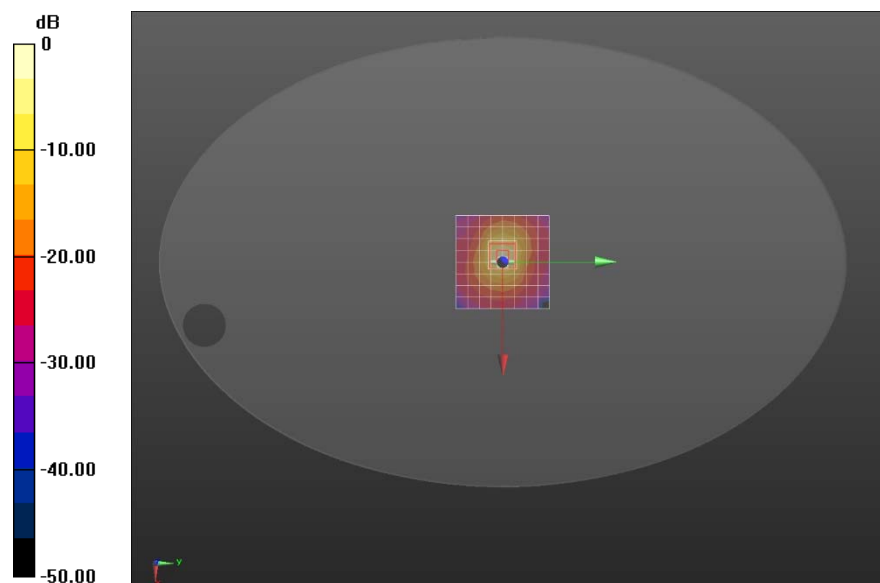
System Verification @ 5250MHz/Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 34.20 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 31.7 W/kg

SAR(1 g) = 7.6 W/kg; SAR(10 g) = 2.12 W/kg

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



Plot 5

Date/Time: 5/7/2018 12:39:14 PM

Test Laboratory: Microsoft EMC

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1158

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

Medium parameters used: $f = 5600$ MHz; $\sigma = 5.595$ S/m; $\epsilon_r = 47.641$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3999; ConvF(4.37, 4.37, 4.37); Calibrated: 12/6/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1445; Calibrated: 11/28/2017
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA001BB; Serial: TP:1218
- DASY52 52.10.0(1444); SEMCAD X 14.6.10(7416)

System Verification @ 5600MHz/Pin=100mW/Area Scan (9x9x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 10.2 W/kg

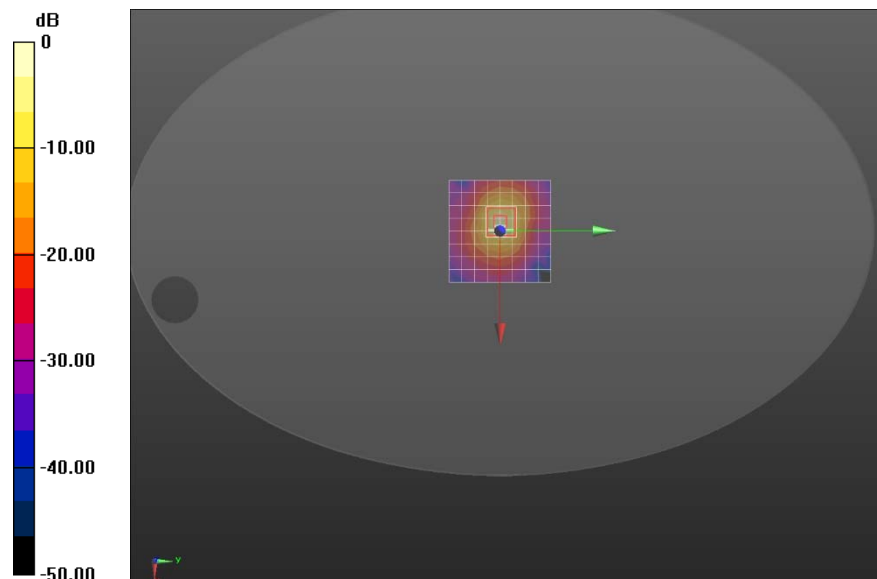
System Verification @ 5600MHz/Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 31.67 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 34.6 W/kg

SAR(1 g) = 7.87 W/kg; SAR(10 g) = 2.18 W/kg

Maximum value of SAR (measured) = 16.8 W/kg



Plot 6

Date/Time: 5/7/2018 1:18:00 PM

Test Laboratory: Microsoft EMC

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1158

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

Medium parameters used: $f = 5750$ MHz; $\sigma = 5.841$ S/m; $\epsilon_r = 47.72$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3999; ConvF(4.51, 4.51, 4.51); Calibrated: 12/6/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1445; Calibrated: 11/28/2017
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA001BB; Serial: TP:1218
- DASY52 52.10.0(1444); SEMCAD X 14.6.10(7416)

System Verification @ 5750MHz/Pin=100mW/Area Scan (9x9x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 9.36 W/kg

System Verification @ 5750MHz/Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 30.49 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 34.4 W/kg

SAR(1 g) = 7.49 W/kg; SAR(10 g) = 2.12 W/kg

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

