

Plot 1

Date/Time: 5/14/2015 3:56:00 PM

Test Laboratory: Microsoft EMC

DUT: 1713; Type: USB Dongle; Serial: EV1-4-000667

Communication System: UID 0, 802.11 2.4 GHz (0); Frequency: 2462 MHz

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.938$ S/m; $\epsilon_r = 52.235$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3939; ConvF(6.9, 6.9, 6.9); Calibrated: 7/17/2014;
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 33.0$
- Electronics: DAE4 Sn1383; Calibrated: 7/11/2014
- Phantom: ELI v5.0 - Front; Type: QDOVA002AA; Serial: TP:xxxx
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Flat-Section MSL/05/14/15 g mode Horizontal Bottom 5 mm 8.5 dBm Tune up 2462 MHz (USB Port)/Area

Scan (81x161x1): Interpolated grid: $dx=0.8000$ mm, $dy=0.8000$ mm

Reference Value = 12.301 V/m; Power Drift = 0.04 dB

Fast SAR: SAR(1 g) = 0.196 W/kg; SAR(10 g) = 0.090 W/kg

Maximum value of SAR (interpolated) = 0.292 W/kg

Flat-Section MSL/05/14/15 g mode Horizontal Bottom 5 mm 8.5 dBm Tune up 2462 MHz (USB Port)/Zoom

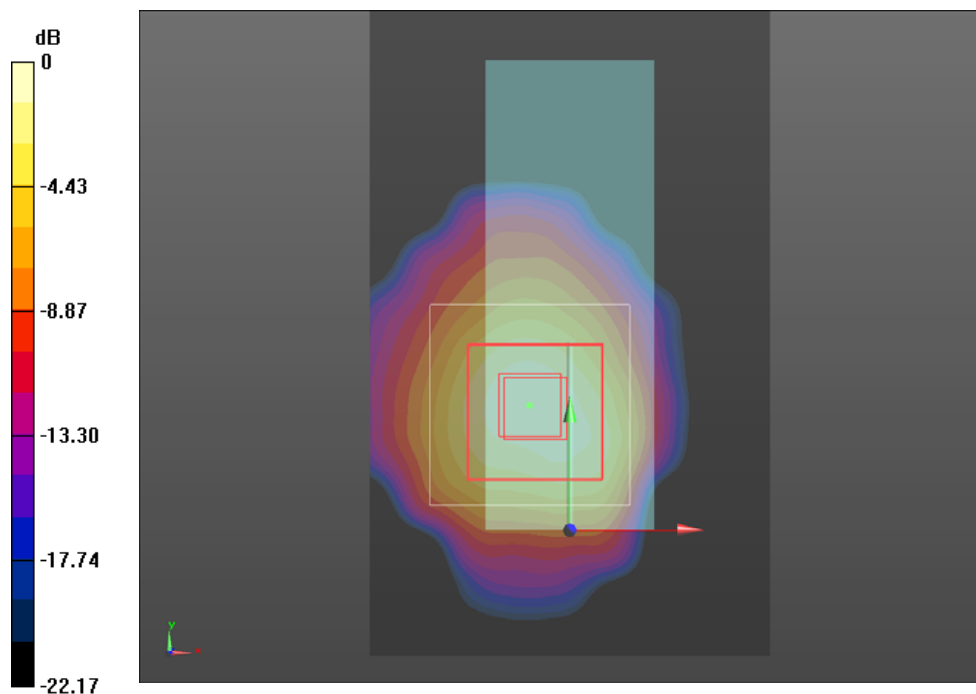
Scan (9x9x9)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=4$ mm

Reference Value = 12.301 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.412 W/kg

SAR(1 g) = 0.184 W/kg; SAR(10 g) = 0.084 W/kg

Maximum value of SAR (measured) = 0.292 W/kg



Plot 2

Date/Time: 5/15/2015 7:56:00 PM

Test Laboratory: Microsoft EMC

DUT: 1713; Type: USB Dongle; Serial: EV1-4-000667

Communication System: UID 0, CW (0); Frequency: 5220 MHz

Medium parameters used: $f = 5220$ MHz; $\sigma = 5.485$ S/m; $\epsilon_r = 48.339$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3939; ConvF(4.38, 4.38, 4.38); Calibrated: 7/17/2014;
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1383; Calibrated: 7/11/2014
- Phantom: ELI v5.0 - Front; Type: QDOVA002AA; Serial: TP:xxxx
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Flat-Section MSL 5.2 GHz Band/a mode Horizontal Top 5 mm 8.5 dBm Tune up 5220 MHz (USB Port)/Area Scan (101x211x1): Interpolated grid: $dx=0.6000$ mm, $dy=0.6000$ mm

Reference Value = 11.442 V/m; Power Drift = 0.10 dB

Fast SAR: SAR(1 g) = 0.207 W/kg; SAR(10 g) = 0.061 W/kg

Maximum value of SAR (interpolated) = 0.444 W/kg

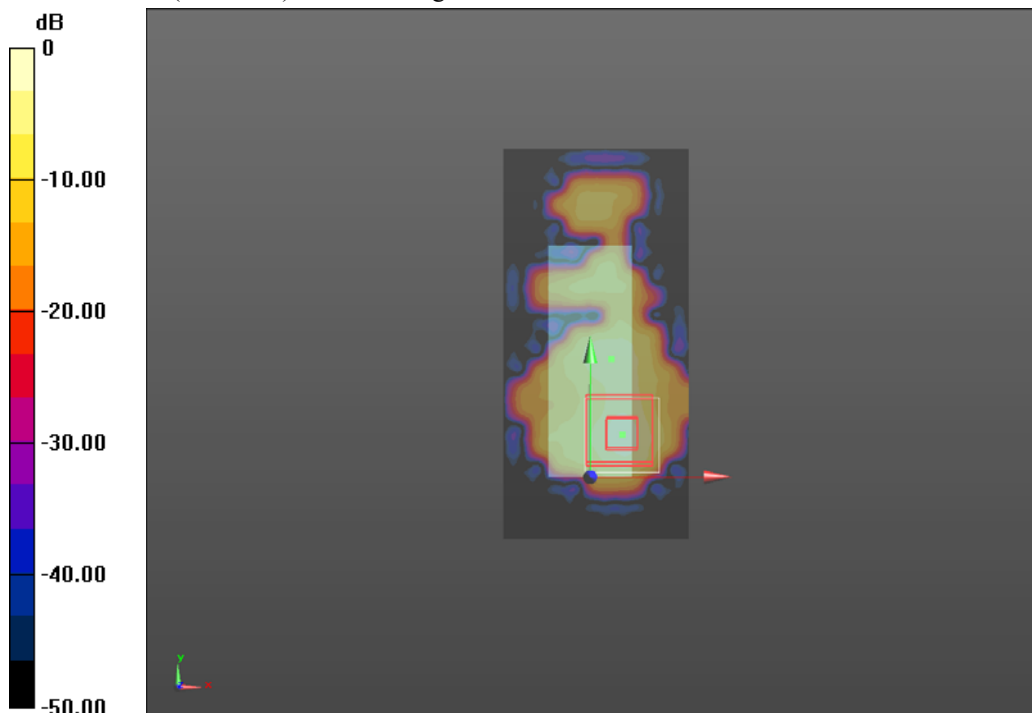
Flat-Section MSL 5.2 GHz Band/a mode Horizontal Top 5 mm 8.5 dBm Tune up 5220 MHz (USB Port)/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 11.442 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.34 W/kg

SAR(1 g) = 0.279 W/kg; SAR(10 g) = 0.070 W/kg

Maximum value of SAR (measured) = 0.627 W/kg



Plot 3

Date/Time: 5/27/2015 4:49:29 PM

Test Laboratory: Microsoft EMC

DUT: 1713; Type: USB Dongle; Serial: EV1-4-000667

Communication System: UID 0, CW (0); Frequency: 5765 MHz

Medium parameters used (interpolated): $f = 5765$ MHz; $\sigma = 6.216$ S/m; $\epsilon_r = 47.866$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3939; ConvF(3.93, 3.93, 3.93); Calibrated: 7/17/2014;
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1383; Calibrated: 7/11/2014
- Phantom: ELI v5.0 - Front; Type: QDOVA002AA; Serial: TP:xxxx
- DASYS2 52.8.7(1137); SEMCAD X 14.6.10(7164)

Flat-Section MSL 5.8 GHz Band/a mode Vertical Front 5 mm 8.5 dBm Tune up 5765 MHz (USB Port)/Area Scan (101x211x1): Interpolated grid: $dx=0.6000$ mm, $dy=0.6000$ mm

Reference Value = 6.492 V/m; Power Drift = 0.20 dB

Fast SAR: SAR(1 g) = 0.334 W/kg; SAR(10 g) = 0.093 W/kg

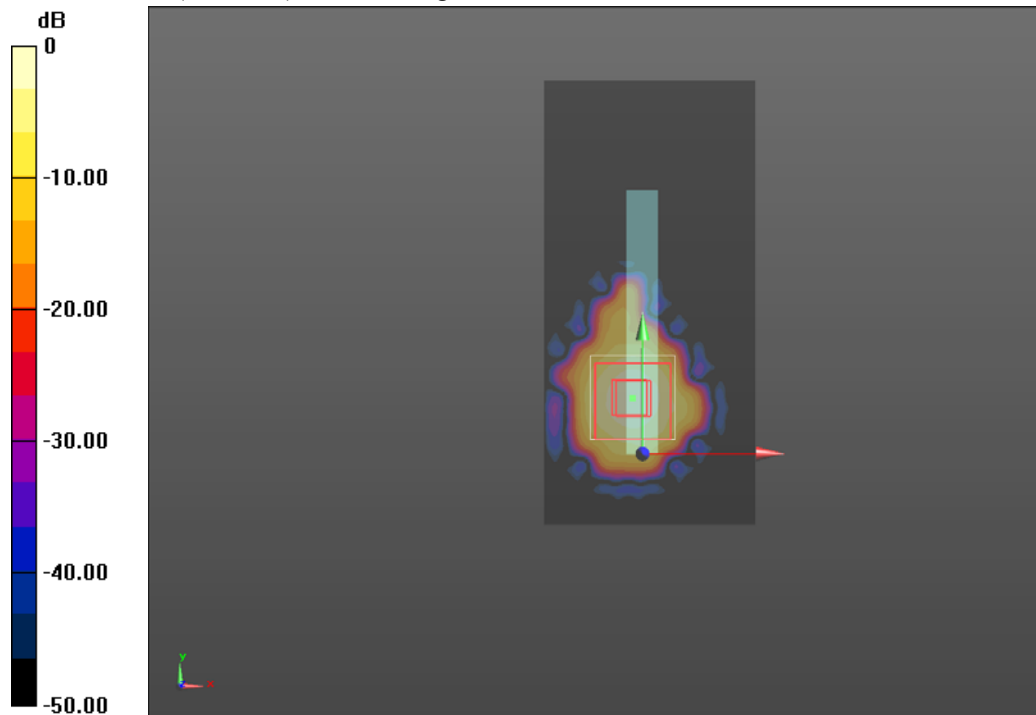
Flat-Section MSL 5.8 GHz Band/a mode Vertical Front 5 mm 8.5 dBm Tune up 5765 MHz (USB Port)/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 6.492 V/m; Power Drift = 0.20 dB

Peak SAR (extrapolated) = 1.56 W/kg

SAR(1 g) = 0.332 W/kg; SAR(10 g) = 0.085 W/kg

Maximum value of SAR (measured) = 0.763 W/kg



Plot 4

Date/Time: 5/12/2015 11:35:02 AM

Test Laboratory: Microsoft EMC

DUT: Dipole 2450 MHz D2450V2_916; Type: D2450V2; Serial: D2450V2 - SN:916

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

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.922$ S/m; $\epsilon_r = 52.302$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3939; ConvF(6.9, 6.9, 6.9); Calibrated: 7/17/2014;
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1383; Calibrated: 7/11/2014
- Phantom: ELI v5.0 - Front; Type: QDOVA002AA; Serial: TP:xxxx
- DASYS2 52.8.7(1137); SEMCAD X 14.6.10(7164)

System Performance Check at Frequencies above 1 GHz/System Check 2450 MHz; $d=10$ mm, $P_{in}=20$ dBm, $dist=2.0$ mm (EX-Probe)/Area Scan (71x71x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Reference Value = 65.454 V/m; Power Drift = 0.08 dB

Fast SAR: SAR(1 g) = 5.36 W/kg; SAR(10 g) = 2.45 W/kg

Maximum value of SAR (interpolated) = 8.08 W/kg

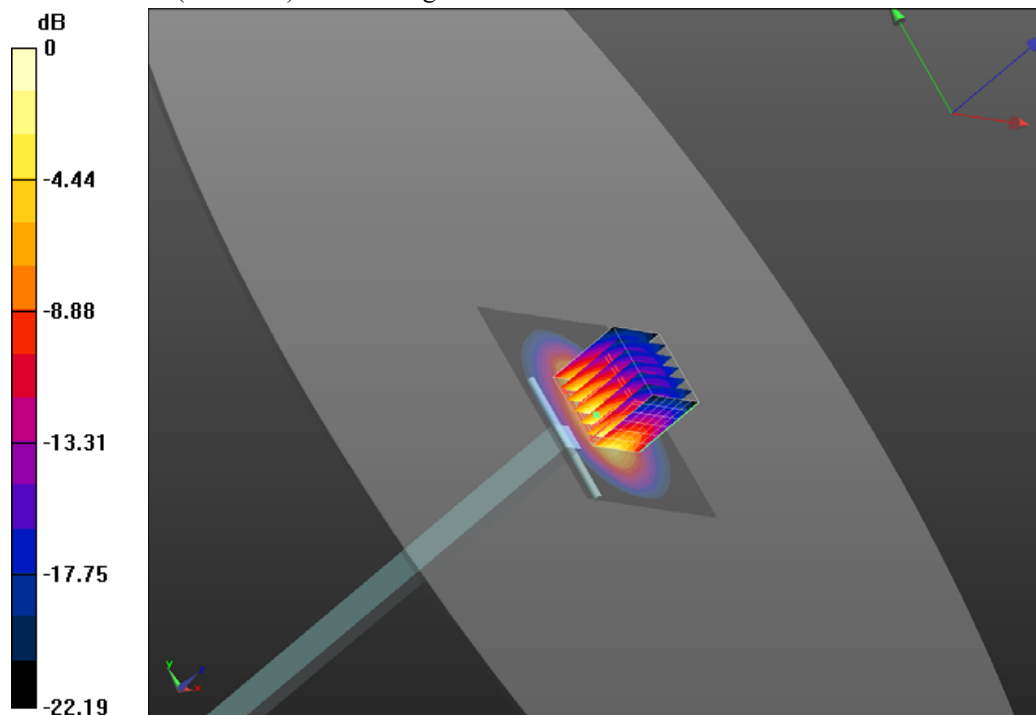
System Performance Check at Frequencies above 1 GHz/System Check 2450 MHz; $d=10$ mm, $P_{in}=20$ dBm, $dist=2.0$ mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 65.454 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 11.0 W/kg

SAR(1 g) = 5.38 W/kg; SAR(10 g) = 2.5 W/kg

Maximum value of SAR (measured) = 8.24 W/kg



Plot 5

Date/Time: 5/15/2015 1:47:22 PM

Test Laboratory: Microsoft EMC

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

Communication System: UID 0, CW (0); Frequency: 5200 MHz

Medium parameters used: $f = 5200$ MHz; $\sigma = 5.456$ S/m; $\epsilon_r = 48.416$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3939; ConvF(4.38, 4.38, 4.38); Calibrated: 7/17/2014;
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1383; Calibrated: 7/11/2014
- Phantom: ELI v5.0 - Front; Type: QDOVA002AA; Serial: TP:xxxx
- DASYS2 52.8.7(1137); SEMCAD X 14.6.10(7164)

System Performance Check at Frequencies above 1 GHz/System Check 5200 MHz; $d=10$ mm, $P_{in}=20$ dBm, $dist=2.0$ mm (EX-Probe)/Area Scan (81x81x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Reference Value = 56.716 V/m; Power Drift = 0.03 dB

Fast SAR: SAR(1 g) = 6.68 W/kg; SAR(10 g) = 1.86 W/kg

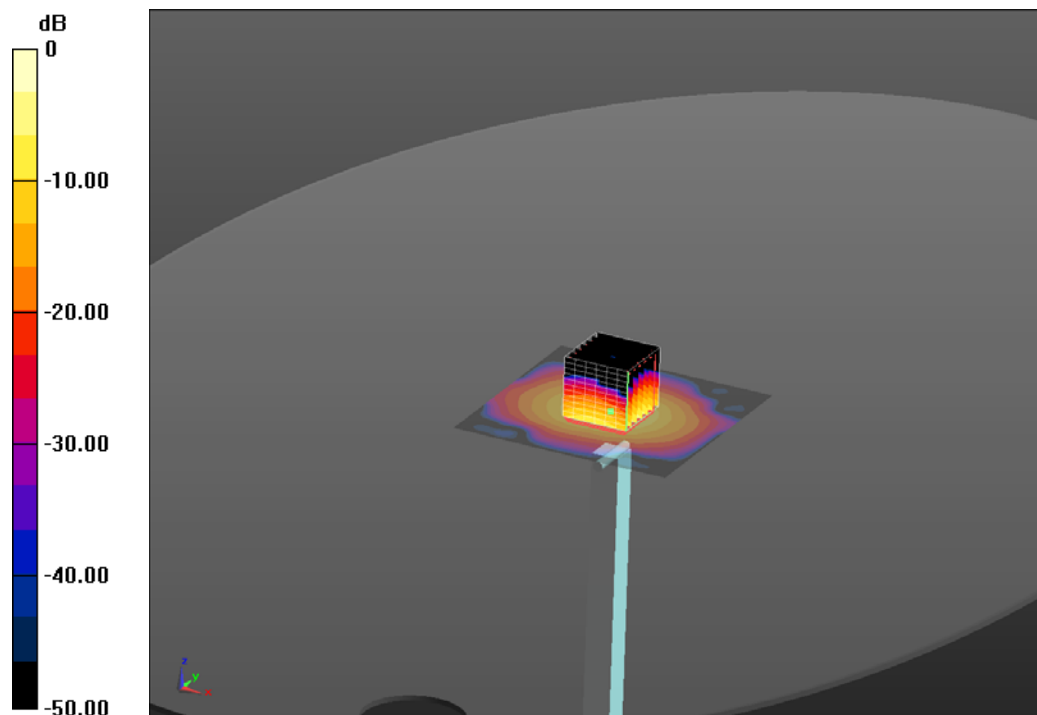
System Performance Check at Frequencies above 1 GHz/System Check 5200 MHz; $d=10$ mm, $P_{in}=20$ dBm, $dist=2.0$ mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 56.716 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 29.9 W/kg

SAR(1 g) = 7.13 W/kg; SAR(10 g) = 2 W/kg

Maximum value of SAR (measured) = 15.0 W/kg



Plot 6

Date/Time: 5/27/2015 10:36:08 AM

Test Laboratory: Microsoft EMC

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

Communication System: UID 0, CW (0); Frequency: 5800 MHz

Medium parameters used (interpolated): $f = 5800$ MHz; $\sigma = 6.279$ S/m; $\epsilon_r = 47.62$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3939; ConvF(3.93, 3.93, 3.93); Calibrated: 7/17/2014;
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1383; Calibrated: 7/11/2014
- Phantom: ELI v5.0 - Front; Type: QDOVA002AA; Serial: TP:xxxx
- DASYS2 52.8.7(1137); SEMCAD X 14.6.10(7164)

System Performance Check at Frequencies above 1 GHz/System Check 5800 MHz; $d=10$ mm, $P_{in}=20$ dBm, $dist=2.0$ mm (EX-Probe)/Area Scan (81x81x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Reference Value = 57.325 V/m; Power Drift = -0.00 dB

Fast SAR: SAR(1 g) = 7.64 W/kg; SAR(10 g) = 2.07 W/kg

System Performance Check at Frequencies above 1 GHz/System Check 5800 MHz; $d=10$ mm, $P_{in}=20$ dBm, $dist=2.0$ mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 57.325 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 36.6 W/kg

SAR(1 g) = 8.13 W/kg; SAR(10 g) = 2.24 W/kg

Maximum value of SAR (measured) = 17.7 W/kg

