

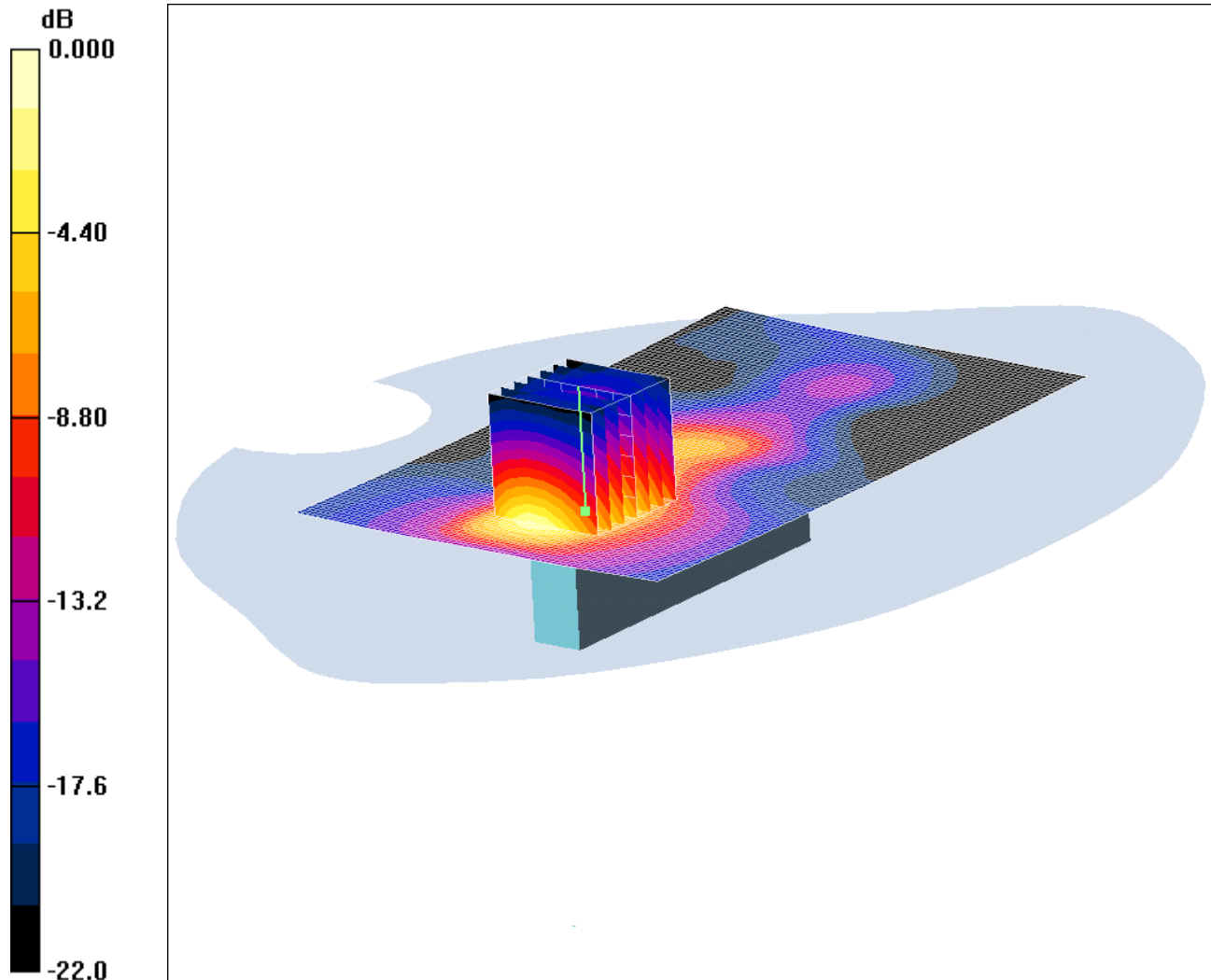
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 07/11/2009

SCN/76288JD01/049 - Vertical-Front of EUT Facing Phantom TD-CDMA 7.68 Mcps 64QAM CH12507 6 Time Slots

DUT: IPWireless; Type: ADT; Serial: ADWA928000816



Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2501.4 MHz; Duty Cycle: 1:2.5
 Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2501.4$ MHz; $\sigma = 1.94$ mho/m; $\epsilon_r = 50.6$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(8.06, 8.06, 8.06); Calibrated: 26/06/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn450; Calibrated: 30/04/2009
- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Vertical Front of EUT Facing Phantom - Low/Area Scan (71x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.01 mW/g

Vertical Front of EUT Facing Phantom - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.51 V/m; Power Drift = 0.036 dB

Peak SAR (extrapolated) = 1.95 W/kg

SAR(1 g) = 0.954 mW/g; SAR(10 g) = 0.440 mW/g

Maximum value of SAR (measured) = 1.07 mW/g

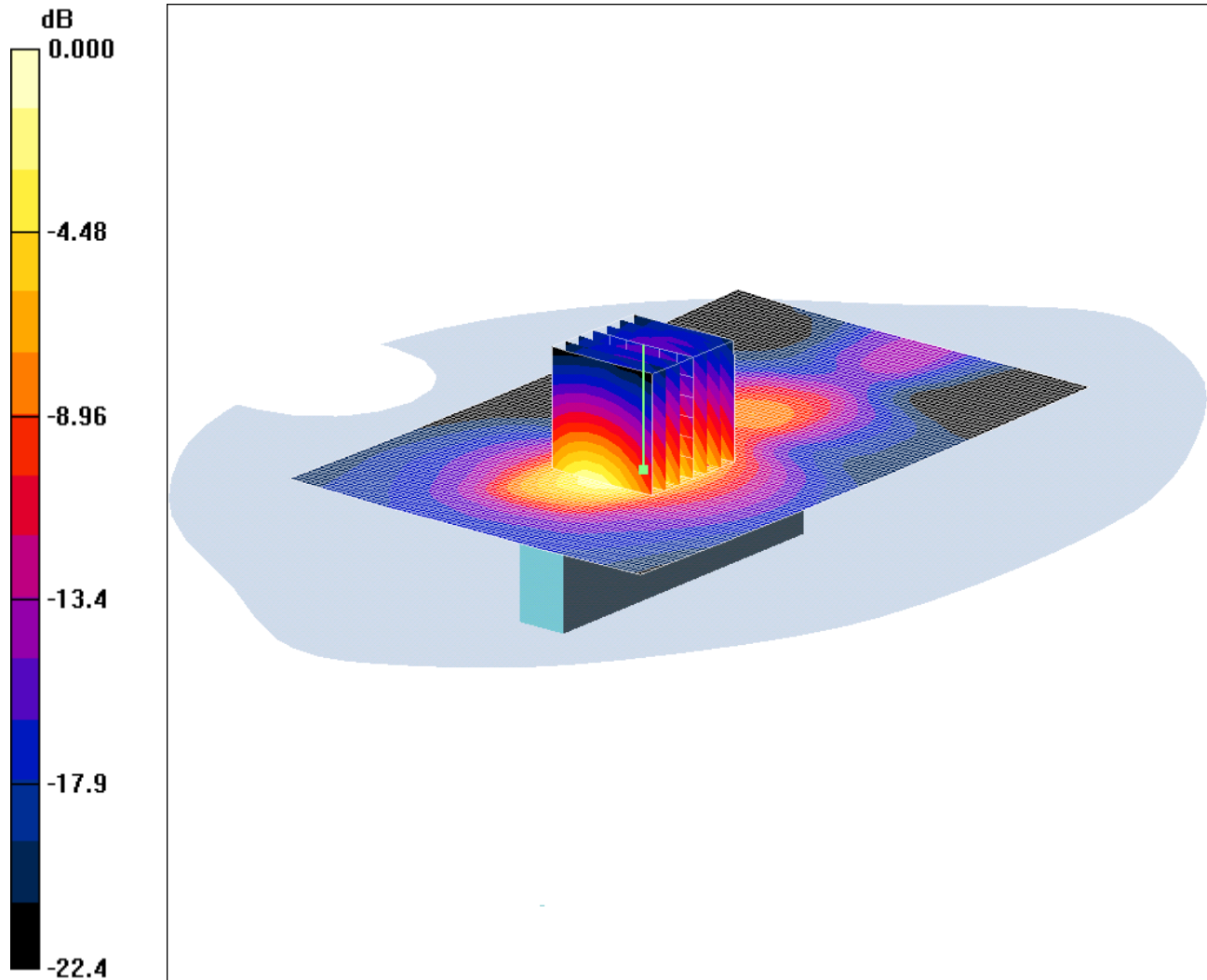
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 08/11/2009

SCN/76288JD01/050 - Vertical-Front of EUT Facing Phantom TD-CDMA 7.68 Mcps 64QAM CH12965 6 Time Slots

DUT: IPWireless; Type: ADT; Serial: ADWA928000816



0 dB = 1.02mW/g

Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2593 MHz; Duty Cycle: 1:2.5

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2593$ MHz; $\sigma = 2.07$ mho/m; $\epsilon_r = 50.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.73, 7.73, 7.73); Calibrated: 16/01/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Vertical Front of EUT Facing Phantom - Middle/Area Scan (71x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.930 mW/g

Vertical Front of EUT Facing Phantom - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.7 V/m; Power Drift = -0.041 dB

Peak SAR (extrapolated) = 1.79 W/kg

SAR(1 g) = 0.900 mW/g; SAR(10 g) = 0.418 mW/g

Maximum value of SAR (measured) = 1.02 mW/g

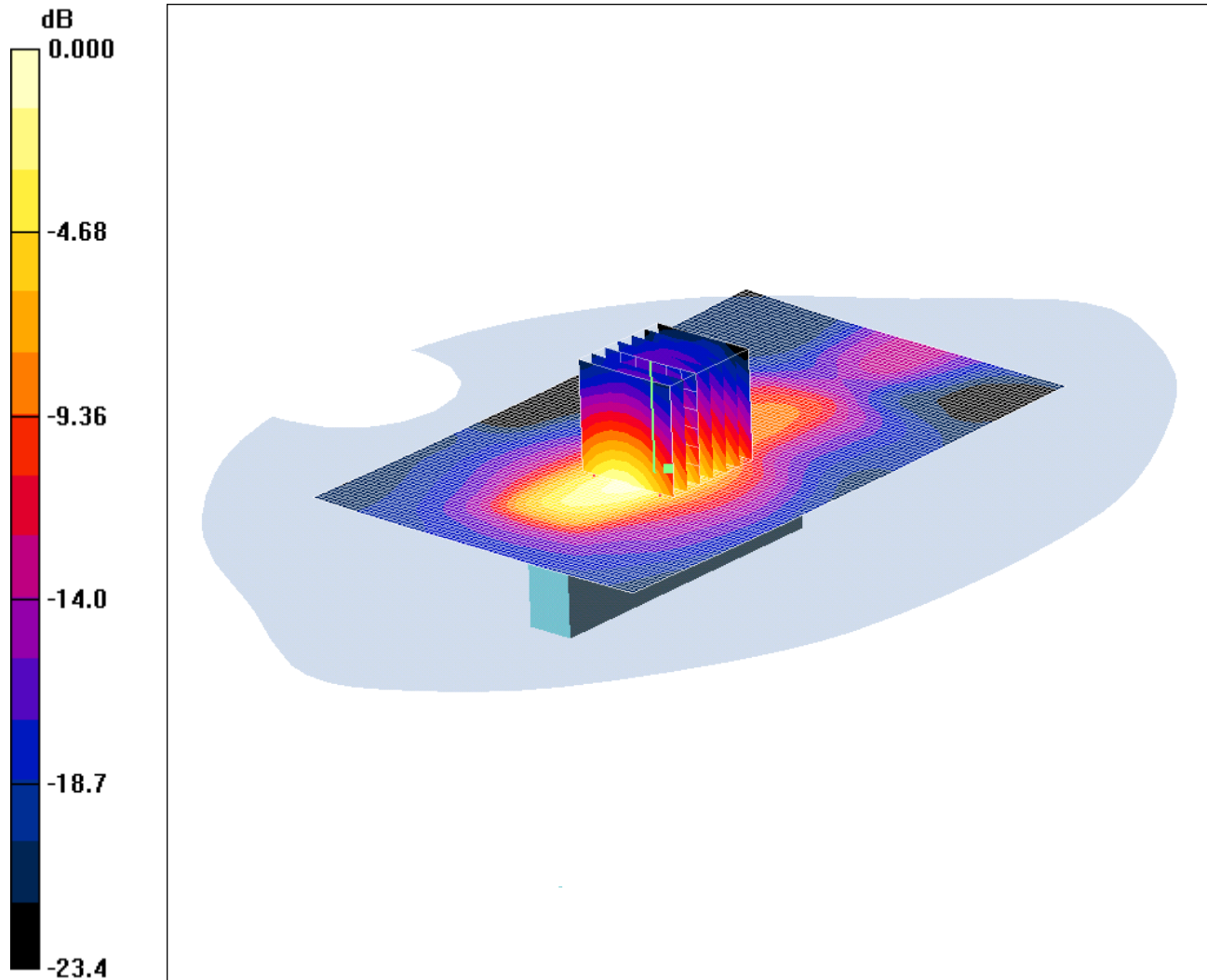
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 08/11/2009

SCN/76288JD01/051 - Vertical-Front of EUT Facing Phantom TD-CDMA 7.68 Mcps 64QAM CH13420 6 Time Slots

DUT: IPWireless; Type: ADT; Serial: ADWA928000816



0 dB = 0.516mW/g

Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2684.6 MHz; Duty Cycle: 1:2.5

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2684.6$ MHz; $\sigma = 2.19$ mho/m; $\epsilon_r = 50.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.73, 7.73, 7.73); Calibrated: 16/01/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Vertical Front of EUT Facing Phantom - High/Area Scan (71x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.483 mW/g

Vertical Front of EUT Facing Phantom - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.4 V/m; Power Drift = 0.013 dB

Peak SAR (extrapolated) = 0.928 W/kg

SAR(1 g) = 0.462 mW/g; SAR(10 g) = 0.214 mW/g

Maximum value of SAR (measured) = 0.516 mW/g

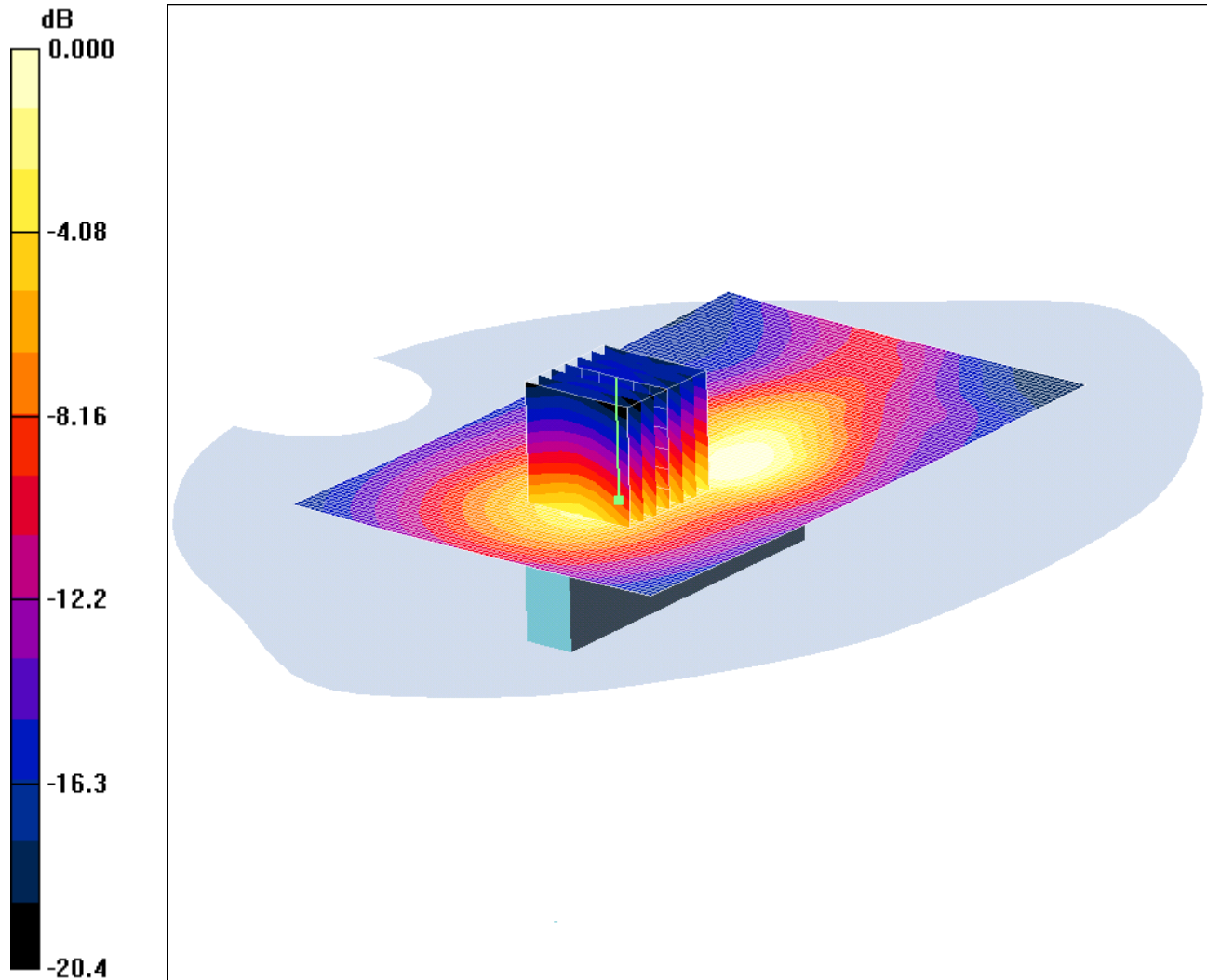
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 08/11/2009

SCN/76288JD01/052 - Vertical-Back of EUT Facing Phantom TD-CDMA 7.68 Mcps 64QAM CH12507 6 Time Slots

DUT: IPWireless; Type: ADT; Serial: ADWA928000816



0 dB = 0.492mW/g

Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2501.4 MHz; Duty Cycle: 1:2.5

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2501.4$ MHz; $\sigma = 1.95$ mho/m; $\epsilon_r = 50.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(8.06, 8.06, 8.06); Calibrated: 26/06/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Vertical Back of EUT Facing Phantom - Low/Area Scan (71x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.495 mW/g

Vertical Back of EUT Facing Phantom - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.5 V/m; Power Drift = 0.049 dB

Peak SAR (extrapolated) = 0.859 W/kg

SAR(1 g) = 0.435 mW/g; SAR(10 g) = 0.218 mW/g

Maximum value of SAR (measured) = 0.492 mW/g

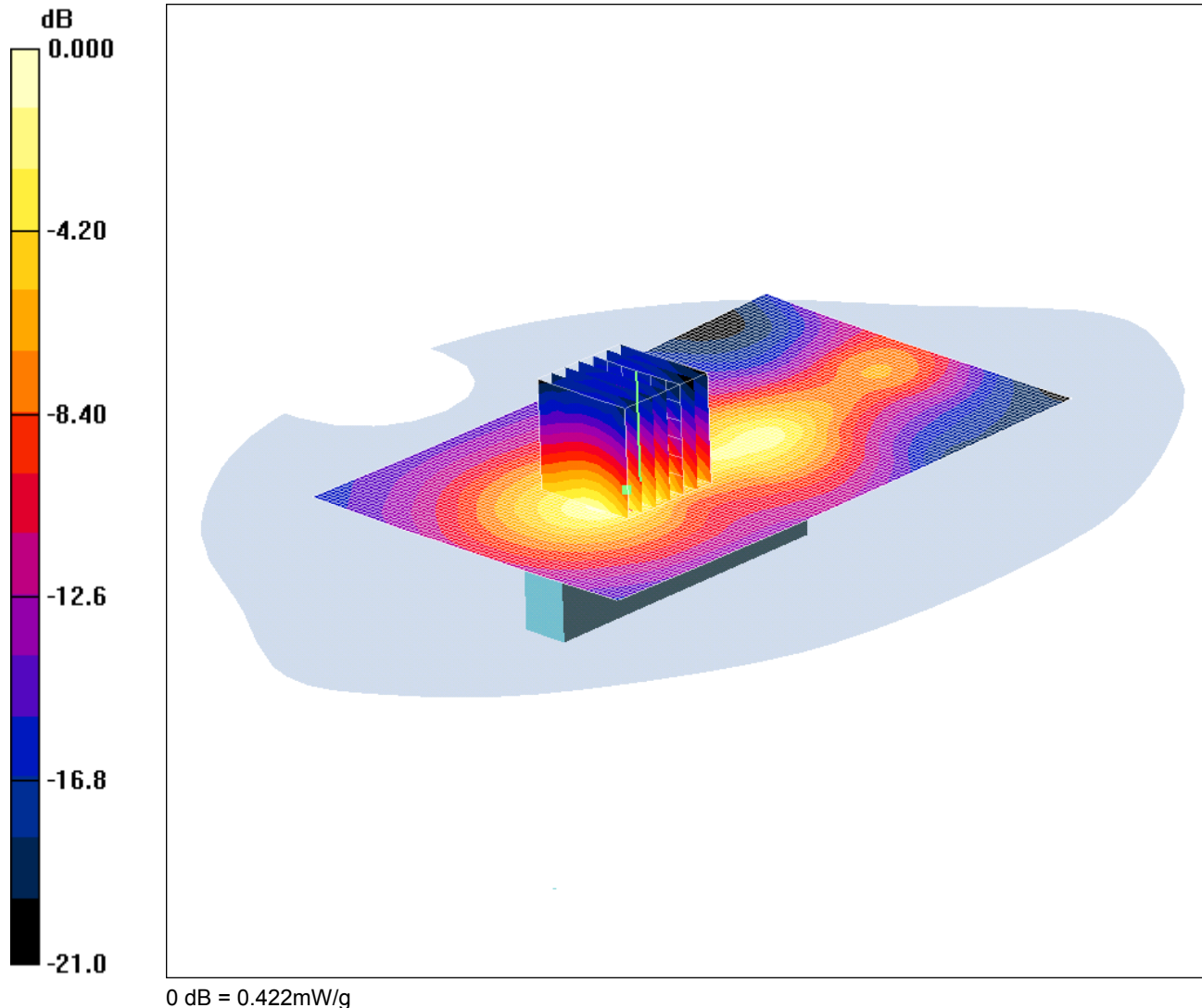
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 08/11/2009

SCN/76288JD01/053 - Vertical-Back of EUT Facing Phantom TD-CDMA 7.68 Mcps 64QAM CH12965 6 Time Slots

DUT: IPWireless; Type: ADT; Serial: ADWA928000816



Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2593 MHz; Duty Cycle: 1:2.5
 Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2593$ MHz; $\sigma = 2.07$ mho/m; $\epsilon_r = 50.5$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.73, 7.73, 7.73); Calibrated: 16/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn450; Calibrated: 30/04/2009
- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Vertical Back of EUT Facing Phantom - Middle/Area Scan (71x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.392 mW/g

Vertical Back of EUT Facing Phantom - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.1 V/m; Power Drift = -0.170 dB

Peak SAR (extrapolated) = 0.761 W/kg

SAR(1 g) = 0.373 mW/g; SAR(10 g) = 0.182 mW/g

Maximum value of SAR (measured) = 0.422 mW/g

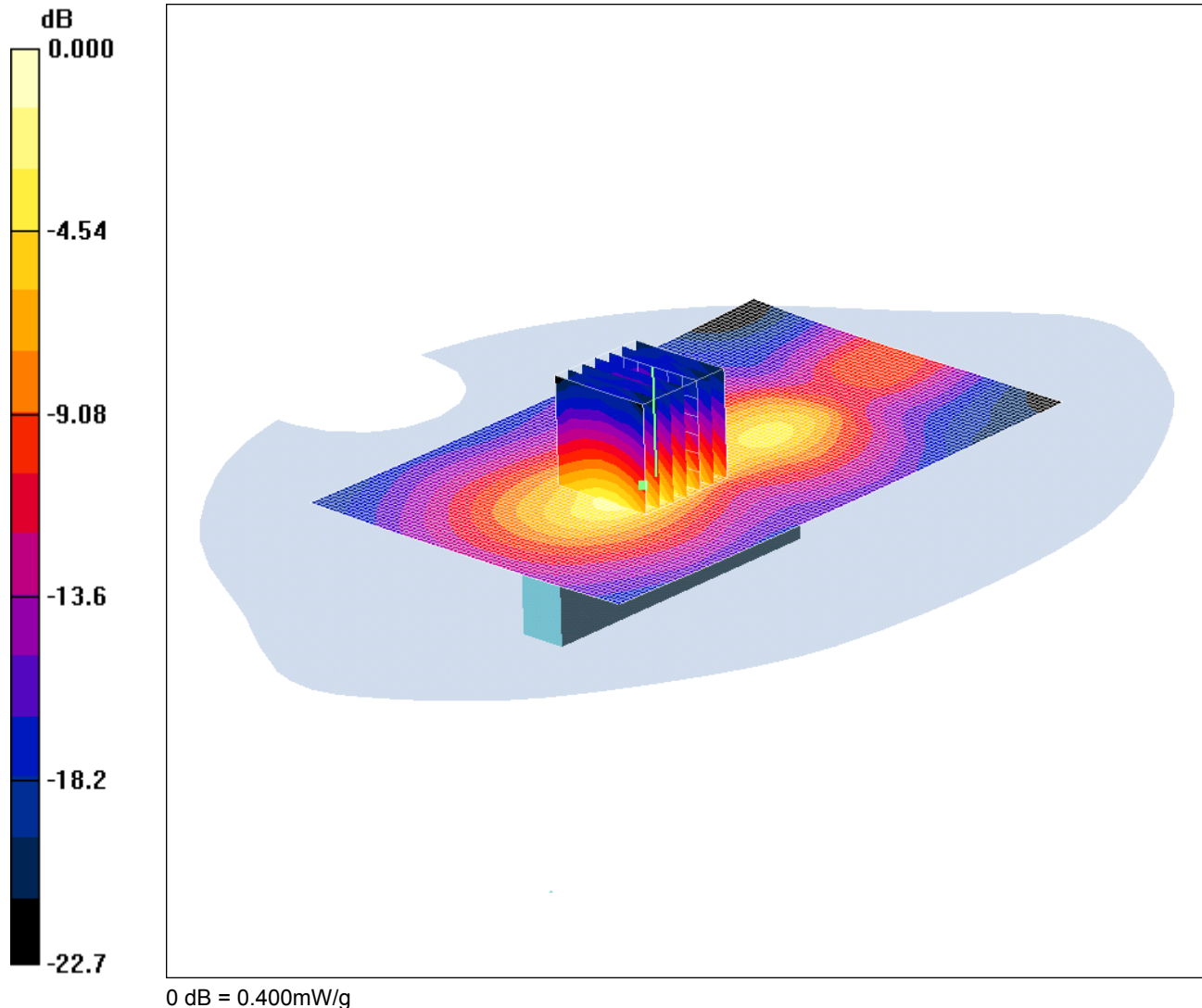
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 08/11/2009

SCN/76288JD01/054 - Vertical-Back of EUT Facing Phantom TD-CDMA 7.68 Mcps 64QAM CH13420 6 Time Slots

DUT: IPWireless; Type: ADT; Serial: ADWA928000816



Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2684.6 MHz; Duty Cycle: 1:2.5
 Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2684.6$ MHz; $\sigma = 2.19$ mho/m; $\epsilon_r = 50.2$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.73, 7.73, 7.73); Calibrated: 16/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn450; Calibrated: 30/04/2009
- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Vertical Back of EUT Facing Phantom - High/Area Scan (71x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.386 mW/g

Vertical Back of EUT Facing Phantom - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.4 V/m; Power Drift = -0.184 dB

Peak SAR (extrapolated) = 0.734 W/kg

SAR(1 g) = 0.352 mW/g; SAR(10 g) = 0.162 mW/g

Maximum value of SAR (measured) = 0.400 mW/g

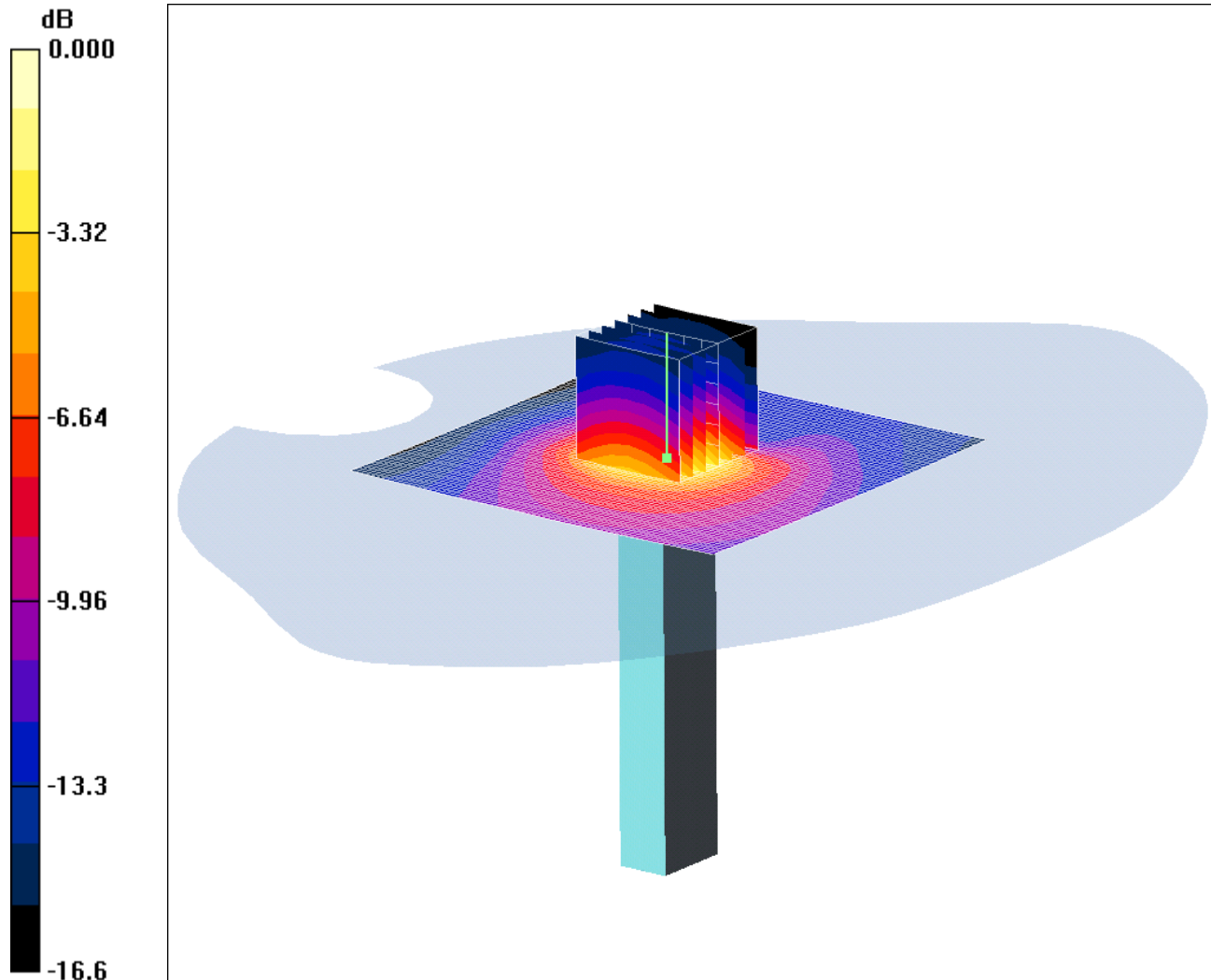
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 08/11/2009

SCN/76288JD01/055 - Top of EUT Facing Phantom TD-CDMA 7.68 Mcps 64QAM CH12507 6 Time Slots

DUT: IPWireless; Type: ADT; Serial: ADWA928000816



0 dB = 0.570mW/g

Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2501.4 MHz; Duty Cycle: 1:2.5

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2501.4$ MHz; $\sigma = 1.95$ mho/m; $\epsilon_r = 50.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(8.06, 8.06, 8.06); Calibrated: 26/06/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Top of EUT Facing Phantom - Low/Area Scan (71x71x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.559 mW/g

Top of EUT Facing Phantom - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.1 V/m; Power Drift = 0.002 dB

Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.496 mW/g; SAR(10 g) = 0.229 mW/g

Maximum value of SAR (measured) = 0.570 mW/g

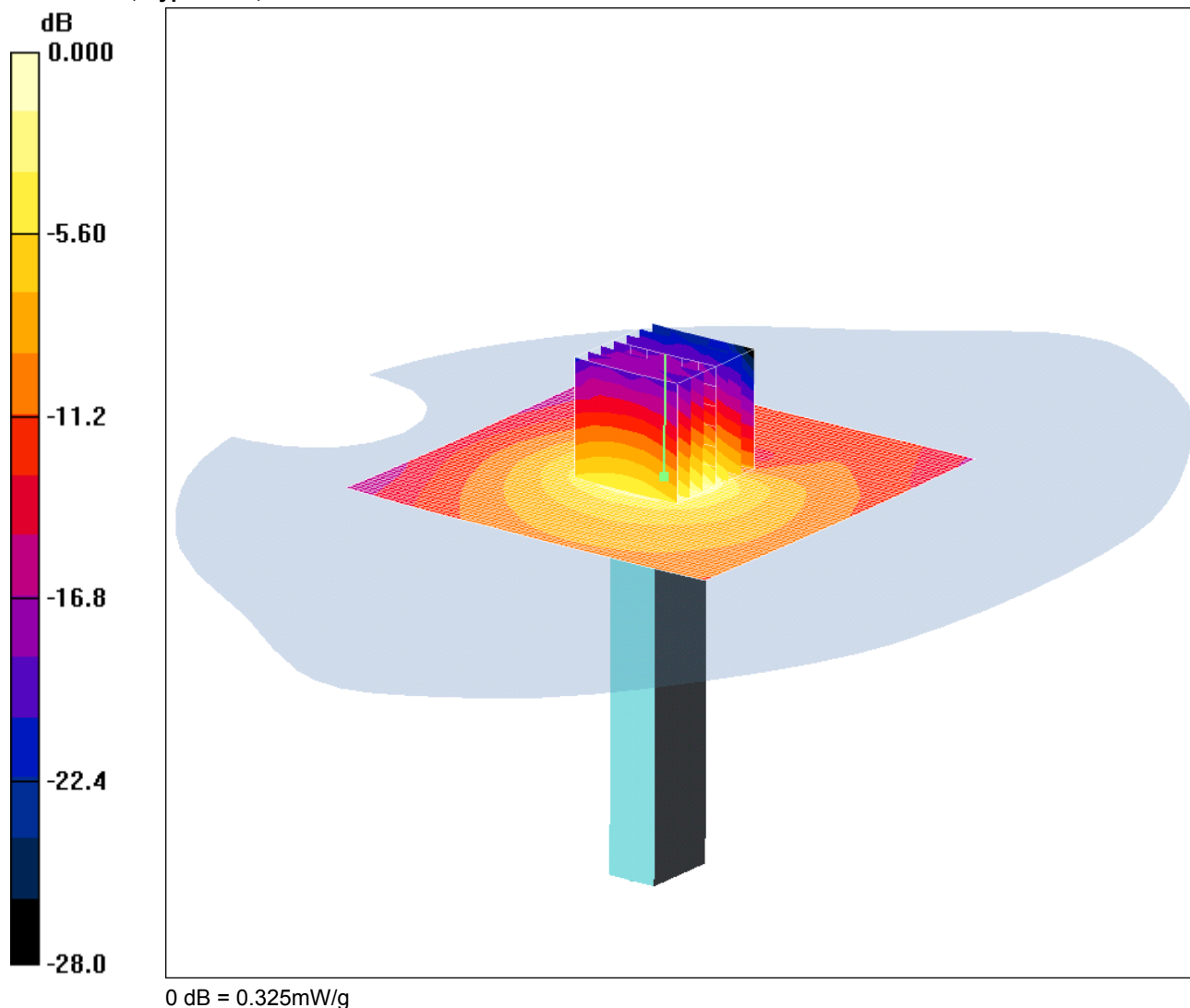
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 08/11/2009

SCN/76288JD01/056 - Top of EUT Facing Phantom TD-CDMA 7.68 Mcps 64QAM CH12965 6 Time Slots

DUT: IPWireless; Type: ADT; Serial: ADWA928000816



Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2593 MHz; Duty Cycle: 1:2.5
 Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2593$ MHz; $\sigma = 2.07$ mho/m; $\epsilon_r = 50.5$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.73, 7.73, 7.73); Calibrated: 16/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn450; Calibrated: 30/04/2009
- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Top of EUT Facing Phantom - Middle/Area Scan (71x71x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.322 mW/g

Top of EUT Facing Phantom - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.3 V/m; Power Drift = -0.148 dB

Peak SAR (extrapolated) = 0.593 W/kg

SAR(1 g) = 0.283 mW/g; SAR(10 g) = 0.130 mW/g

Maximum value of SAR (measured) = 0.325 mW/g

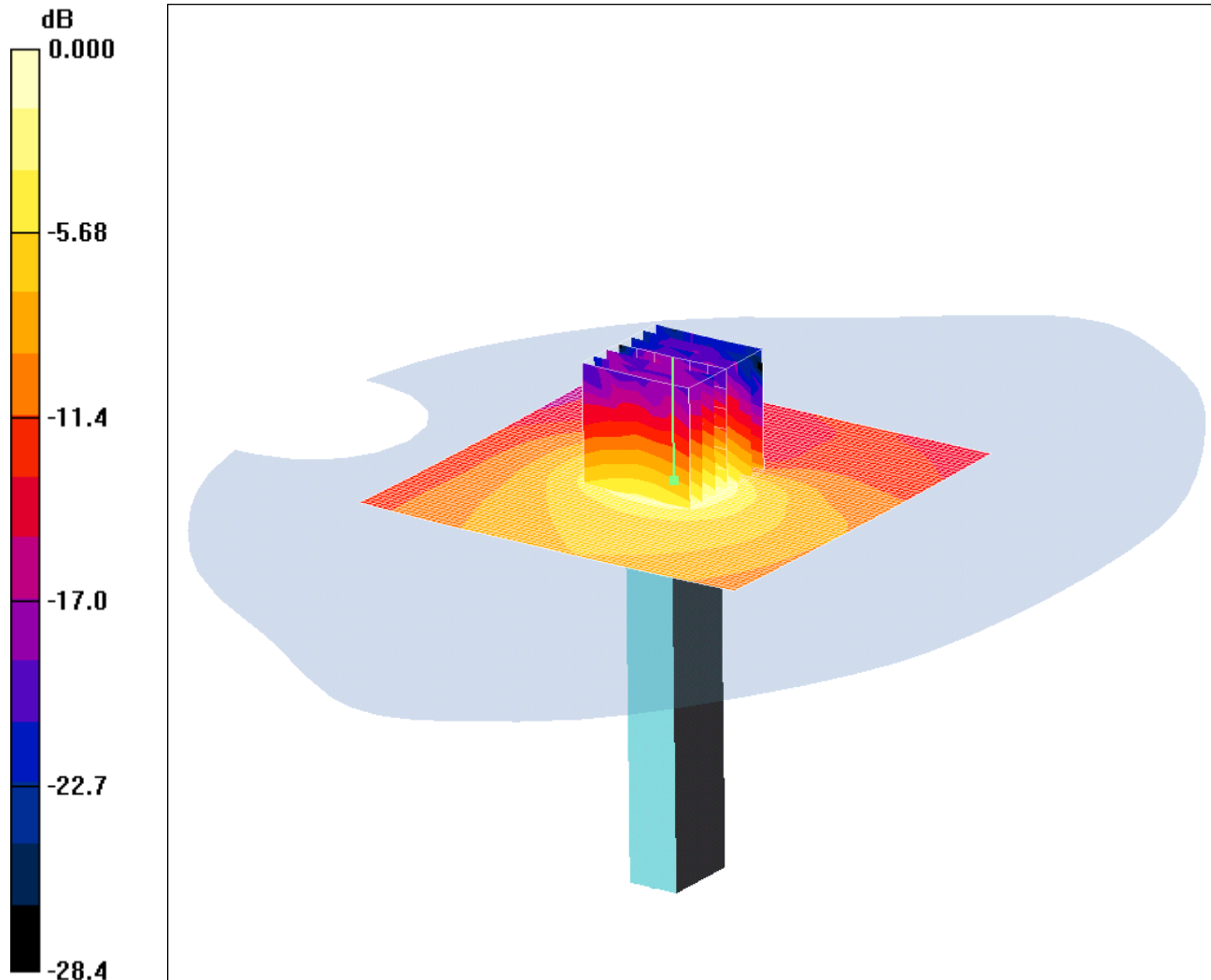
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 08/11/2009

SCN/76288JD01/057 - Top of EUT Facing Phantom TD-CDMA 7.68 Mcps 64QAM CH13420 6 Time Slots

DUT: IPWireless; Type: ADT; Serial: ADWA928000816



0 dB = 0.160mW/g

Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2684.6 MHz; Duty Cycle: 1:2.5

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2684.6$ MHz; $\sigma = 2.19$ mho/m; $\epsilon_r = 50.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.73, 7.73, 7.73); Calibrated: 16/01/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Top of EUT Facing Phantom - High/Area Scan (71x71x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.161 mW/g

Top of EUT Facing Phantom - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.29 V/m; Power Drift = -0.065 dB

Peak SAR (extrapolated) = 0.307 W/kg

SAR(1 g) = 0.142 mW/g; SAR(10 g) = 0.065 mW/g

Maximum value of SAR (measured) = 0.160 mW/g

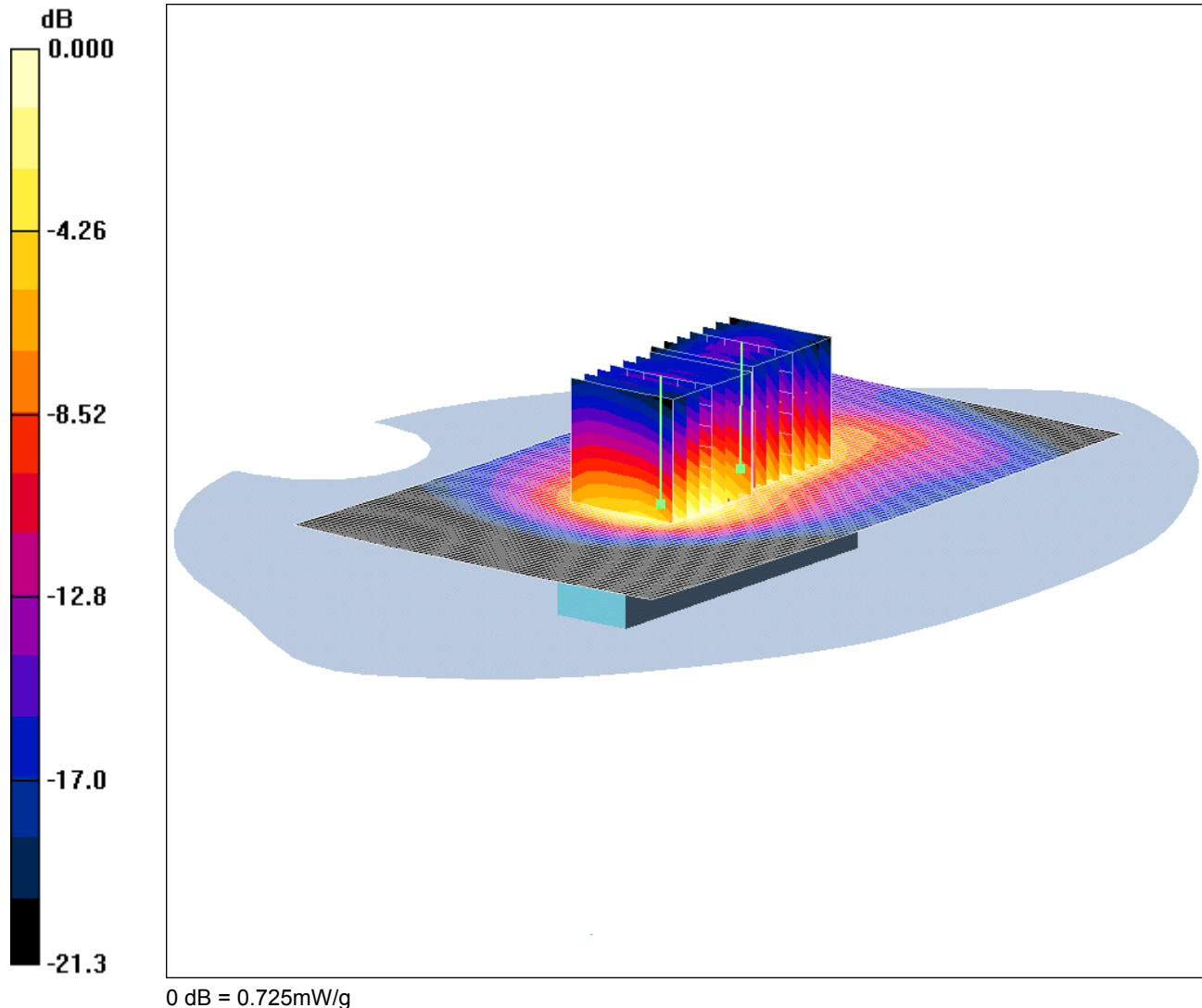
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 08/11/2009

SCN/76288JD01/058 - Horizontal - Up of EUT Facing Phantom TD-CDMA 7.68 Mcps 64QAM CH12507 6 Time Slots

DUT: IPWireless; Type: ADT; Serial: ADWA928000816



Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2501.4 MHz; Duty Cycle: 1:2.5
 Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2501.4$ MHz; $\sigma = 1.95$ mho/m; $\epsilon_r = 50.8$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(8.06, 8.06, 8.06); Calibrated: 26/06/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn450; Calibrated: 30/04/2009
- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Horizontal Up of EUT Facing Phantom - Low/Area Scan (71x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.01 mW/g

Horizontal Up of EUT Facing Phantom - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 21.2 V/m; Power Drift = 0.111 dB; Peak SAR (extrapolated) = 1.71 W/kg

SAR(1 g) = 0.851 mW/g; SAR(10 g) = 0.408 mW/g; Maximum value of SAR (measured) = 0.968 mW/g

Horizontal Up of EUT Facing Phantom - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 21.2 V/m; Power Drift = 0.111 dB; Peak SAR (extrapolated) = 1.15 W/kg

SAR(1 g) = 0.642 mW/g; SAR(10 g) = 0.306 mW/g; Maximum value of SAR (measured) = 0.725 mW/g

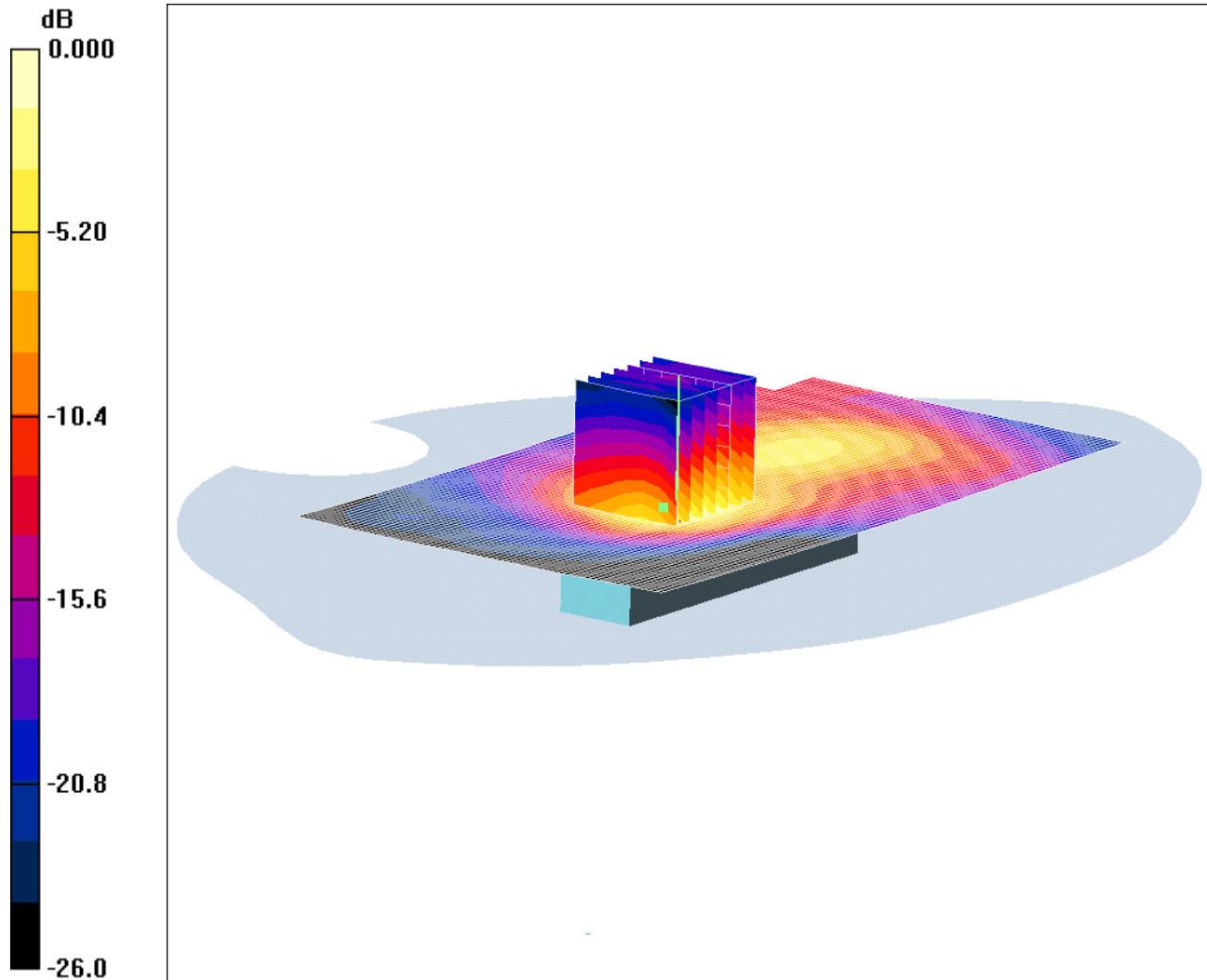
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 08/11/2009

SCN/76288JD01/059 - Horizontal - Up of EUT Facing Phantom TD-CDMA 7.68 Mcps 64QAM CH12965 6 Time Slots

DUT: IPWireless; Type: ADT; Serial: ADWA928000816



0 dB = 0.635mW/g

Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2593 MHz; Duty Cycle: 1:2.5
 Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2593$ MHz; $\sigma = 2.07$ mho/m; $\epsilon_r = 50.5$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.73, 7.73, 7.73); Calibrated: 16/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn450; Calibrated: 30/04/2009
- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Horizontal Up of EUT Facing Phantom - Middle/Area Scan (71x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.700 mW/g

Horizontal Up of EUT Facing Phantom - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.5 V/m; Power Drift = 0.213 dB

Peak SAR (extrapolated) = 1.18 W/kg

SAR(1 g) = 0.572 mW/g; SAR(10 g) = 0.269 mW/g

Maximum value of SAR (measured) = 0.635 mW/g

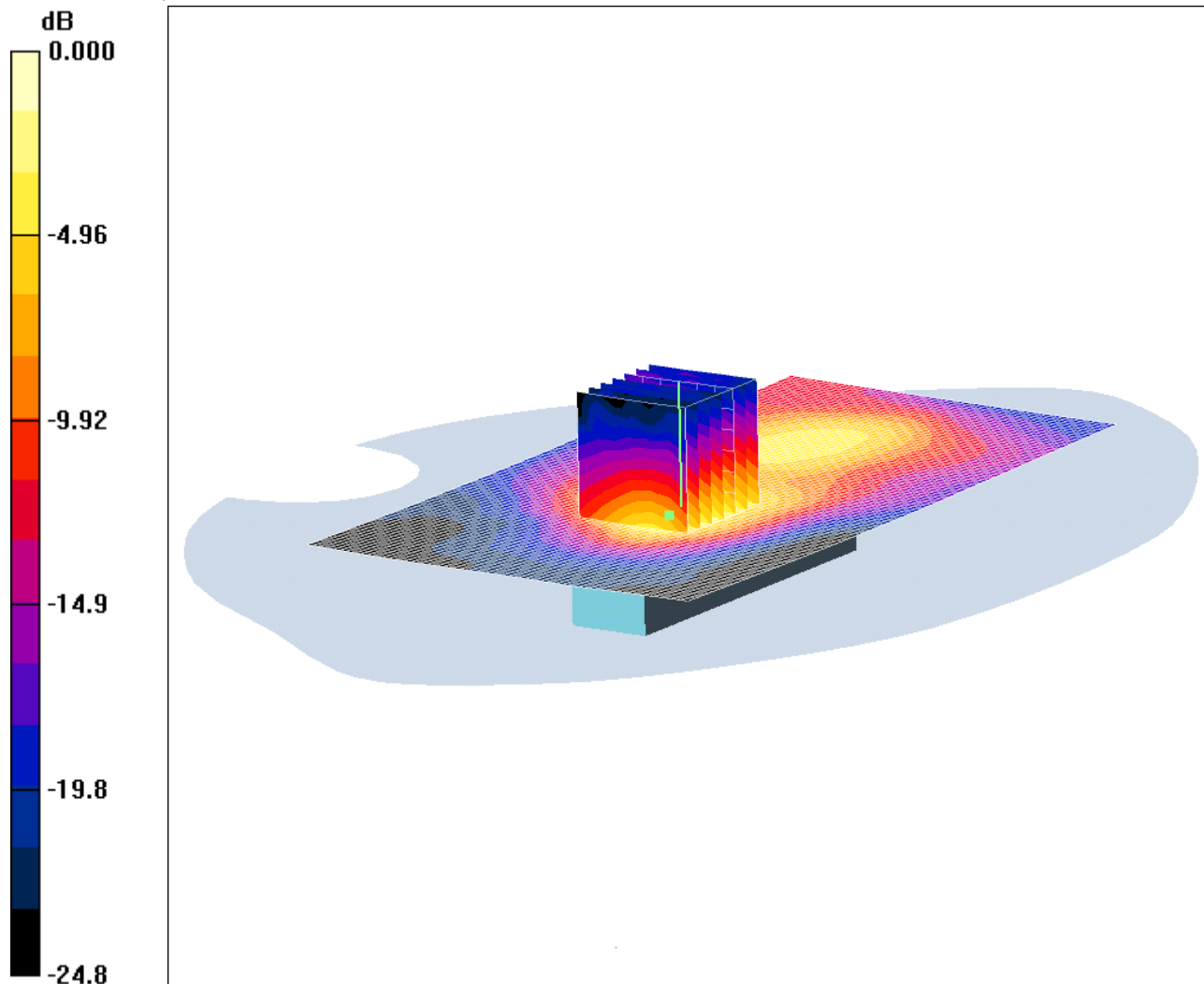
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 08/11/2009

SCN/76288JD01/060 - Horizontal - Up of EUT Facing Phantom TD-CDMA 7.68 Mcps 64QAM CH13420 6 Time Slots

DUT: IPWireless; Type: ADT; Serial: ADWA928000816



0 dB = 0.344mW/g

Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2684.6 MHz; Duty Cycle: 1:2.5

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2684.6$ MHz; $\sigma = 2.19$ mho/m; $\epsilon_r = 50.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.73, 7.73, 7.73); Calibrated: 16/01/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Horizontal Up of EUT Facing Phantom - High/Area Scan (71x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.371 mW/g

Horizontal Up of EUT Facing Phantom - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.6 V/m; Power Drift = -0.056 dB

Peak SAR (extrapolated) = 0.633 W/kg

SAR(1 g) = 0.308 mW/g; SAR(10 g) = 0.147 mW/g

Maximum value of SAR (measured) = 0.344 mW/g

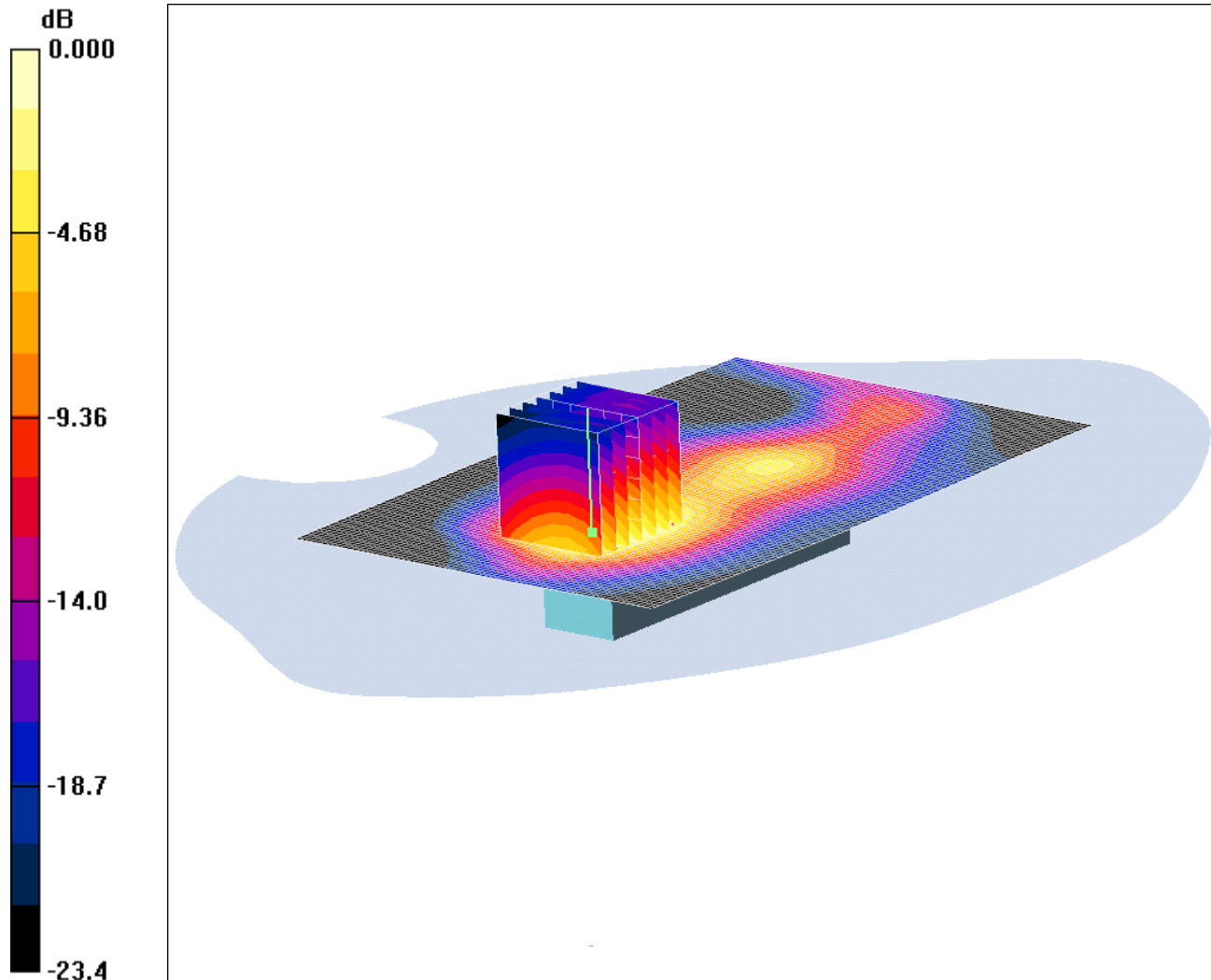
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 14/11/2009

SCN/76288JD01/061 - Horizontal - Down of EUT Facing Phantom TD-CDMA 3.84 Mcps 16QAM CH12494 6 Time Slots

DUT: IPWireless; Type: ADT; Serial: ADWA928000816



0 dB = 1.65mW/g

Communication System: TDCDMA - 3.84 Mcps / 5MHz Channel; Frequency: 2498.8 MHz; Duty Cycle: 1:2.5

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2498.8$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 50.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(8.06, 8.06, 8.06); Calibrated: 26/06/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Horizontal Down of EUT Facing Phantom - Low/Area Scan (71x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.76 mW/g

Horizontal Down of EUT Facing Phantom - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.3 V/m; Power Drift = 0.215 dB

Peak SAR (extrapolated) = 2.92 W/kg

SAR(1 g) = 1.49 mW/g; SAR(10 g) = 0.744 mW/g

Maximum value of SAR (measured) = 1.65 mW/g

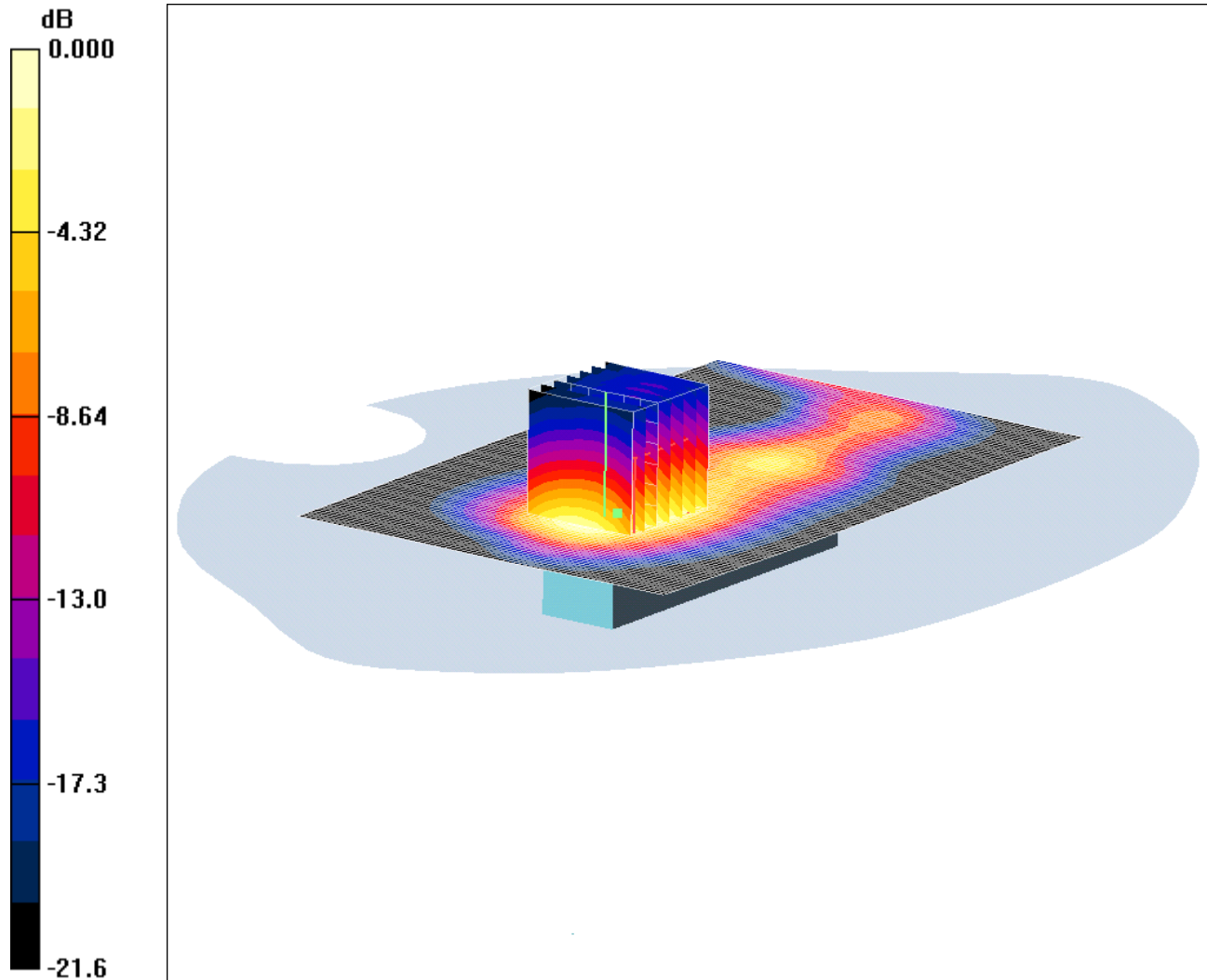
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 14/11/2009

SCN/76288JD01/062 - Horizontal - Down of EUT Facing Phantom TD-CDMA 3.84 Mcps 16QAM CH12965 6 Time Slots

DUT: IPWireless; Type: ADT; Serial: ADWA928000816



0 dB = 1.22mW/g

Communication System: TDCDMA - 3.84 Mcps / 5MHz Channel; Frequency: 2593 MHz; Duty Cycle: 1:2.5

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2593$ MHz; $\sigma = 2.06$ mho/m; $\epsilon_r = 50.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.73, 7.73, 7.73); Calibrated: 16/01/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Horizontal Down of EUT Facing Phantom - Middle/Area Scan (71x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.38 mW/g

Horizontal Down of EUT Facing Phantom - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.4 V/m; Power Drift = -0.267 dB

Peak SAR (extrapolated) = 2.12 W/kg

SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.568 mW/g

Maximum value of SAR (measured) = 1.22 mW/g

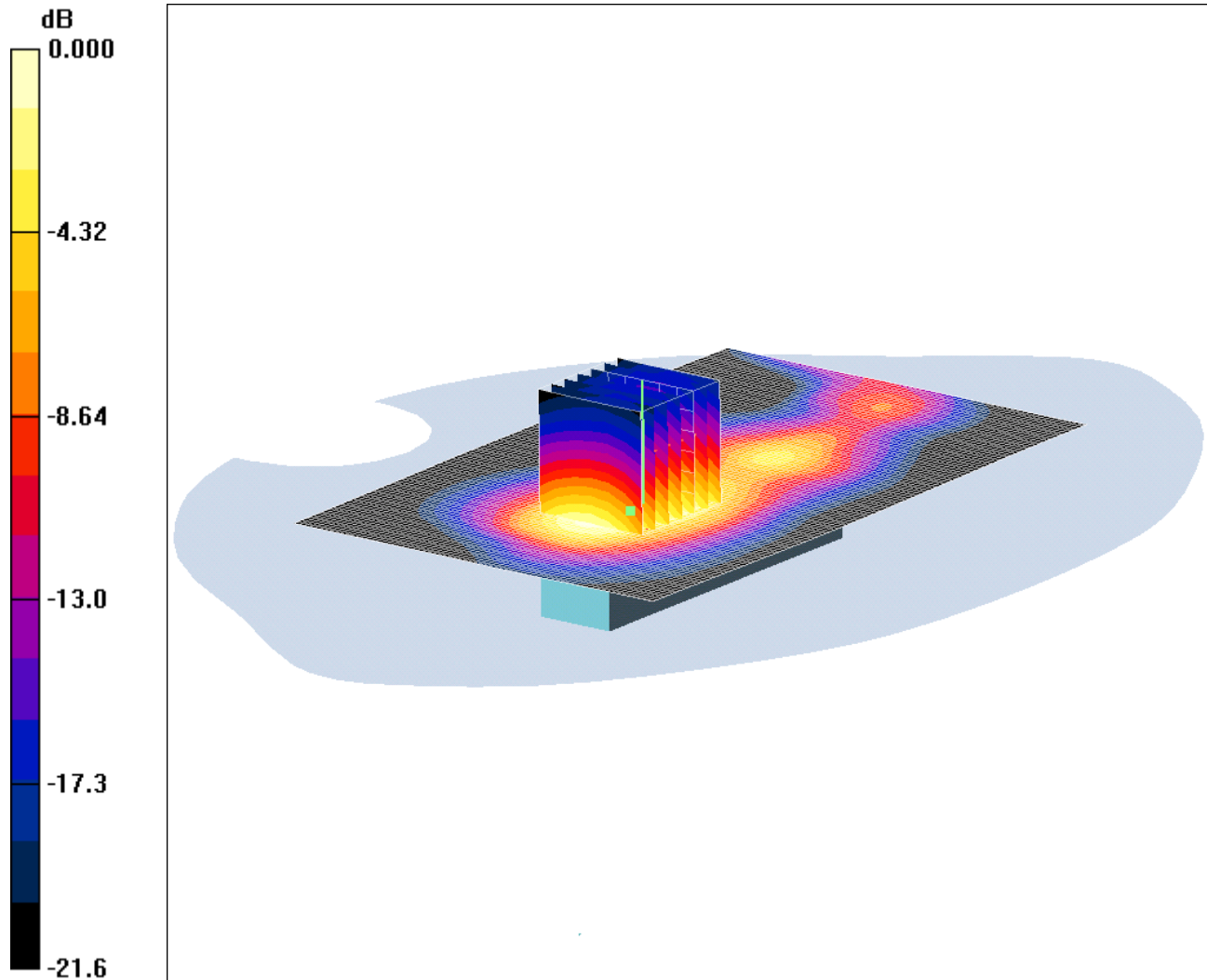
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 14/11/2009

SCN/76288JD01/063 - Horizontal - Down of EUT Facing Phantom TD-CDMA 3.84 Mcps 16QAM CH13436 6 Time Slots

DUT: IPWireless; Type: ADT; Serial: ADWA928000816



0 dB = 0.902mW/g

Communication System: TDCDMA - 3.84 Mcps / 5MHz Channel; Frequency: 2687.2 MHz; Duty Cycle: 1:2.5

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2687.2$ MHz; $\sigma = 2.19$ mho/m; $\epsilon_r = 49.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.73, 7.73, 7.73); Calibrated: 16/01/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Horizontal Down of EUT Facing Phantom - Middle/Area Scan (71x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.991 mW/g

Horizontal Down of EUT Facing Phantom - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.2 V/m; Power Drift = 0.016 dB

Peak SAR (extrapolated) = 1.51 W/kg

SAR(1 g) = 0.818 mW/g; SAR(10 g) = 0.417 mW/g

Maximum value of SAR (measured) = 0.902 mW/g

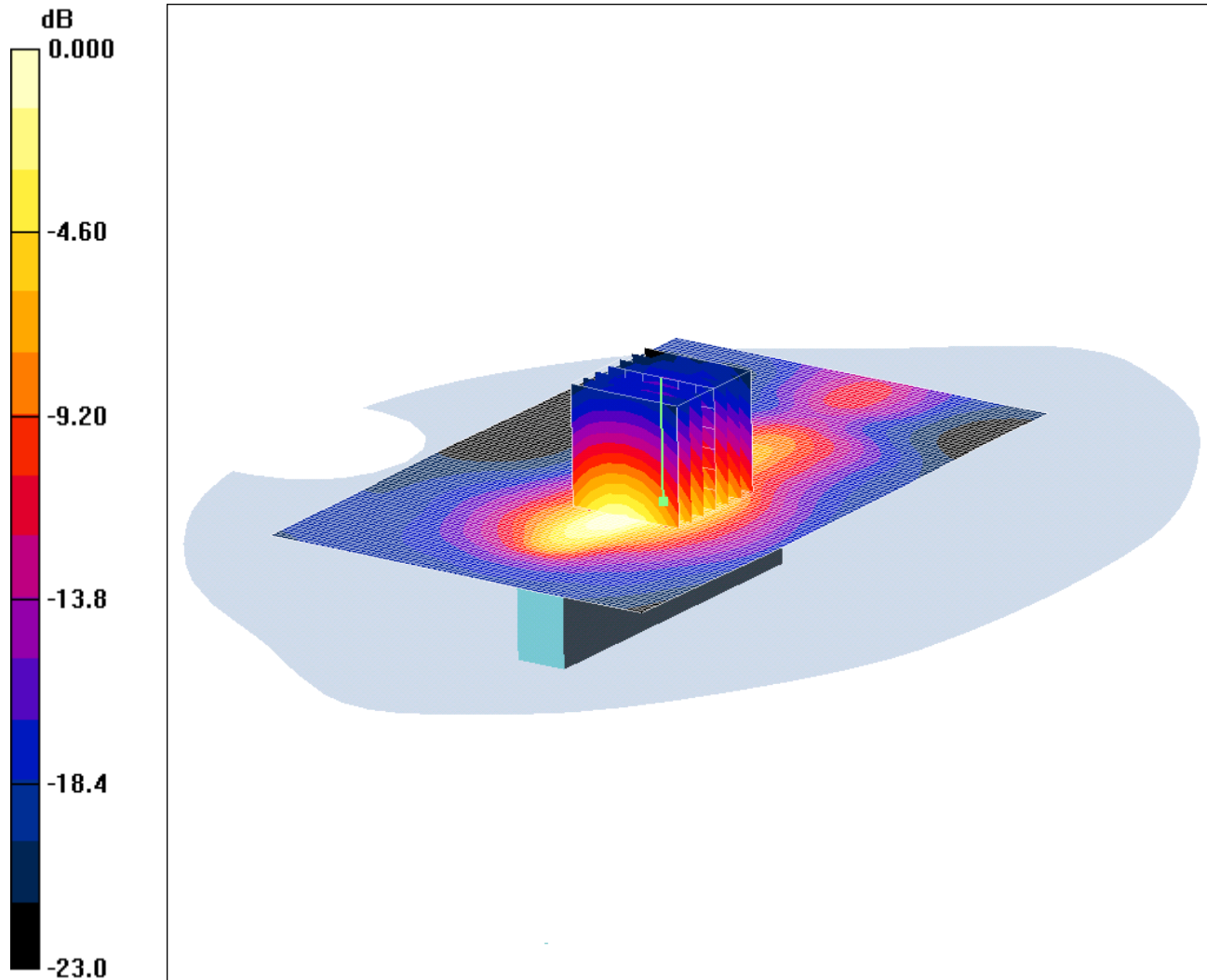
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 04/11/2009

SCN/76288JD01/064 - Vertical - Front of EUT Facing Phantom TD-CDMA 3.84 Mcps 16QAM CH13436 6 Time Slots

DUT: IPWireless; Type: ADT; Serial: ADWA928000816



0 dB = 0.615mW/g

Communication System: TDCDMA - 3.84 Mcps / 5MHz Channel; Frequency: 2687.2 MHz; Duty Cycle: 1:2.5

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2687.2$ MHz; $\sigma = 2.19$ mho/m; $\epsilon_r = 49.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.73, 7.73, 7.73); Calibrated: 16/01/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Vertical Front of EUT Facing Phantom - High/Area Scan (71x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.640 mW/g

Vertical Front of EUT Facing Phantom - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.4 V/m; Power Drift = -0.023 dB

Peak SAR (extrapolated) = 1.10 W/kg

SAR(1 g) = 0.533 mW/g; SAR(10 g) = 0.242 mW/g

Maximum value of SAR (measured) = 0.615 mW/g

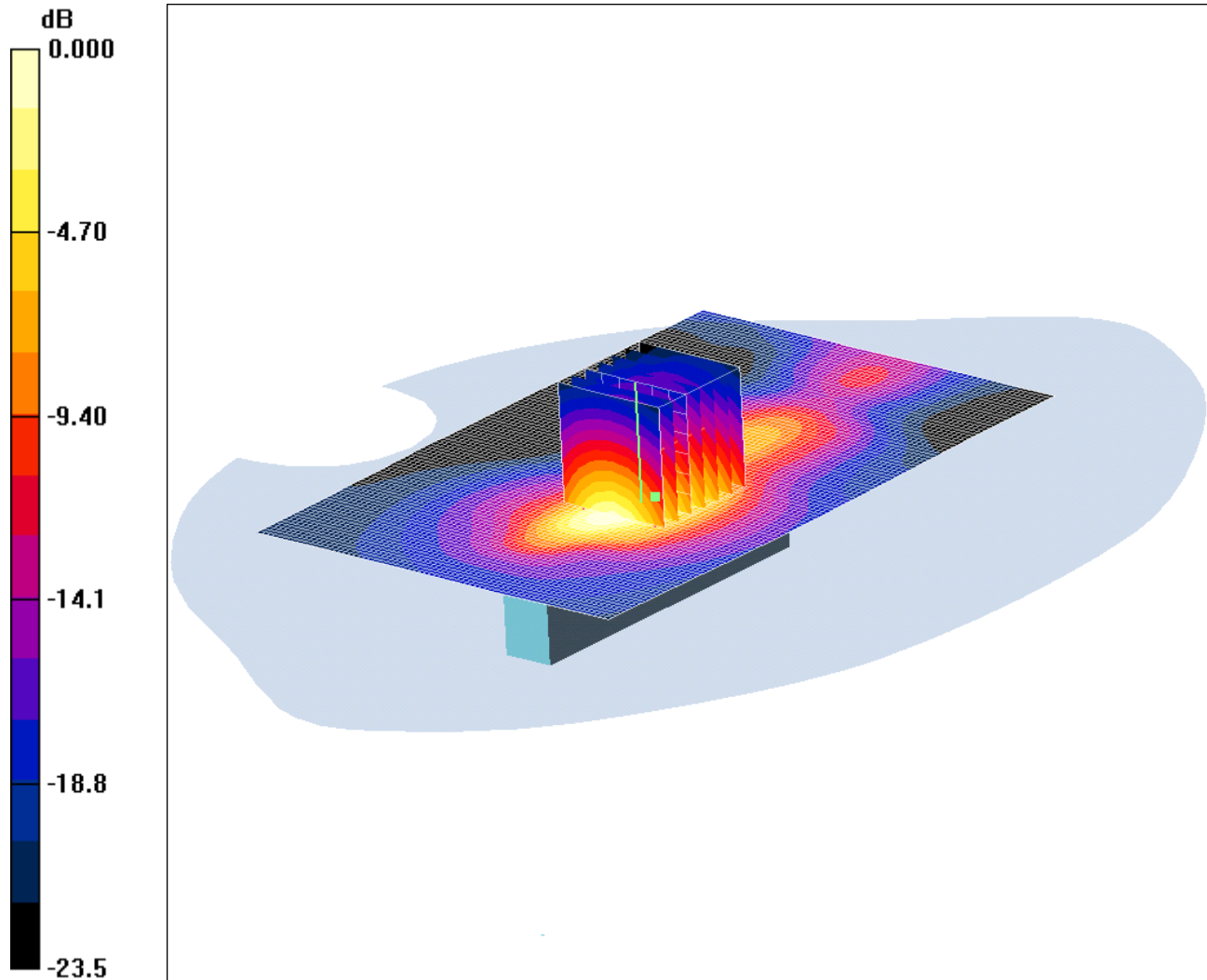
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 14/11/2009

SCN/76288JD01/065 - Vertical - Front of EUT Facing Phantom TD-CDMA 3.84 Mcps 16QAM CH12965 6 Time Slots

DUT: IPWireless; Type: ADT; Serial: ADWA928000816



0 dB = 1.21mW/g

Communication System: TDCDMA - 3.84 Mcps / 5MHz Channel; Frequency: 2593 MHz; Duty Cycle: 1:2.5

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2593$ MHz; $\sigma = 2.06$ mho/m; $\epsilon_r = 50.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.73, 7.73, 7.73); Calibrated: 16/01/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Vertical Front of EUT Facing Phantom - Middle/Area Scan (71x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.23 mW/g

Vertical Front of EUT Facing Phantom - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 23.9 V/m; Power Drift = 0.045 dB

Peak SAR (extrapolated) = 2.18 W/kg

SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.470 mW/g

Maximum value of SAR (measured) = 1.21 mW/g

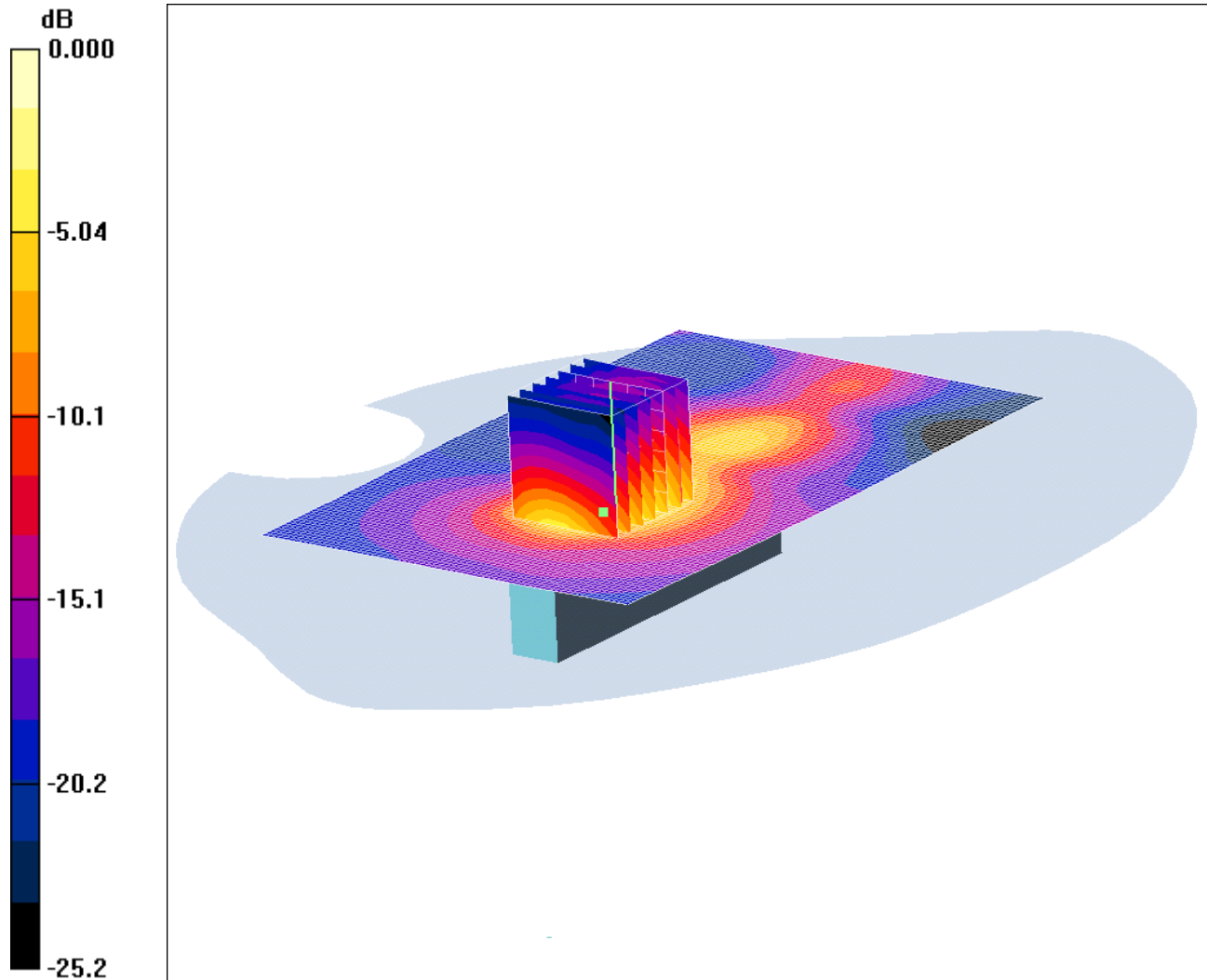
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 04/11/2009

SCN/76288JD01/066 - Vertical - Front of EUT Facing Phantom TD-CDMA 3.84 Mcps 16QAM CH12494 6 Time Slots

DUT: IPWireless; Type: ADT; Serial: ADWA928000816



0 dB = 1.20mW/g

Communication System: TDCDMA - 3.84 Mcps / 5MHz Channel; Frequency: 2498.8 MHz; Duty Cycle: 1:2.5

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2498.8$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 50.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(8.06, 8.06, 8.06); Calibrated: 26/06/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Vertical Front of EUT Facing Phantom - Low/Area Scan (71x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.28 mW/g

Vertical Front of EUT Facing Phantom - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.4 V/m; Power Drift = 0.104 dB

Peak SAR (extrapolated) = 2.13 W/kg

SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.472 mW/g

Maximum value of SAR (measured) = 1.20 mW/g

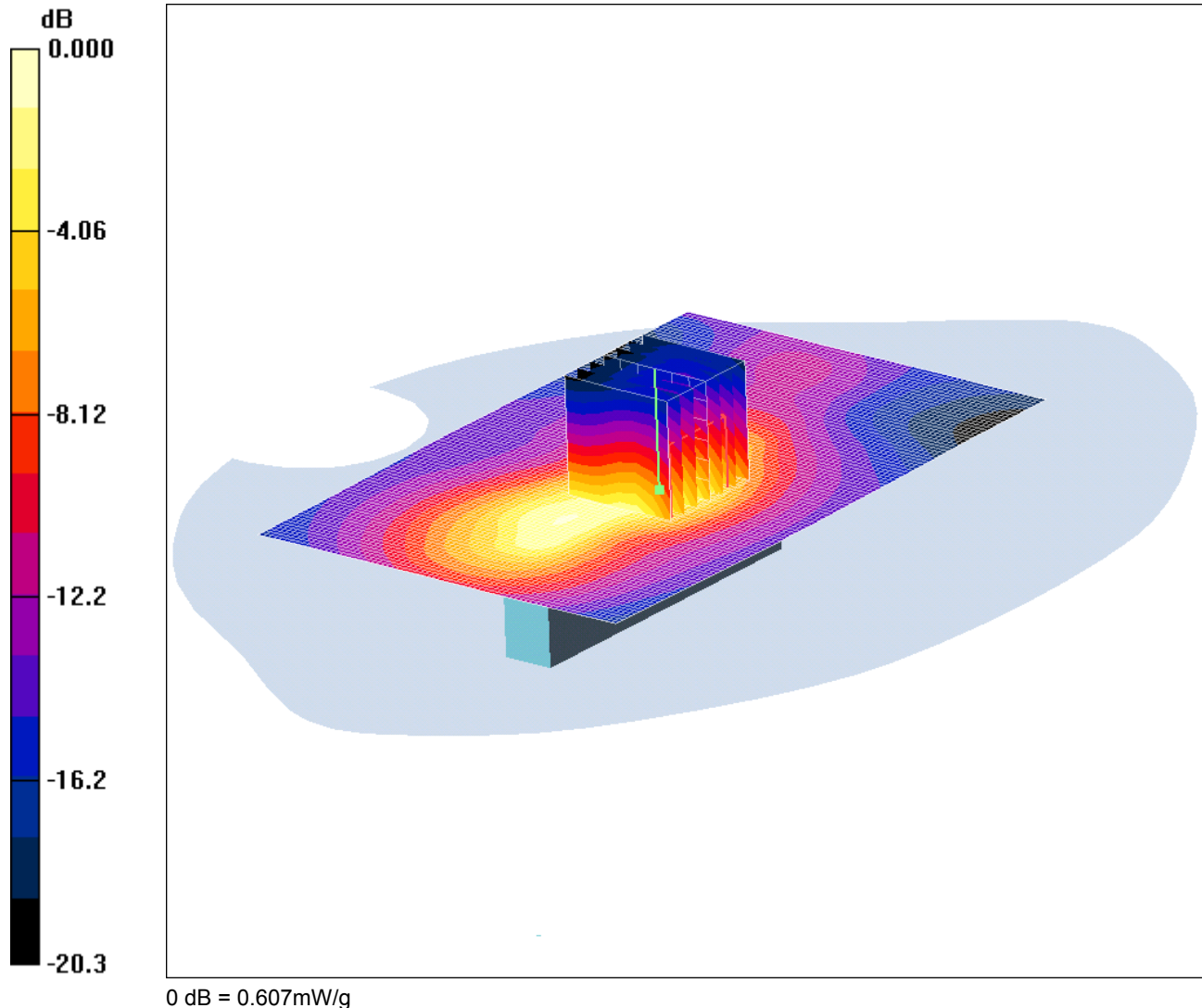
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 14/11/2009

SCN/76288JD01/067 - Vertical - Back of EUT Facing Phantom TD-CDMA 3.84 Mcps 16QAM CH12494 6 Time Slots

DUT: IPWireless; Type: ADT; Serial: ADWA928000816



Communication System: TDCDMA - 3.84 Mcps / 5MHz Channel; Frequency: 2498.8 MHz; Duty Cycle: 1:2.5

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2498.8$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 50.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(8.06, 8.06, 8.06); Calibrated: 26/06/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Vertical Back of EUT Facing Phantom - Low/Area Scan (71x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.567 mW/g

Vertical Back of EUT Facing Phantom - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.8 V/m; Power Drift = 0.099 dB

Peak SAR (extrapolated) = 1.07 W/kg

SAR(1 g) = 0.539 mW/g; SAR(10 g) = 0.255 mW/g

Maximum value of SAR (measured) = 0.607 mW/g

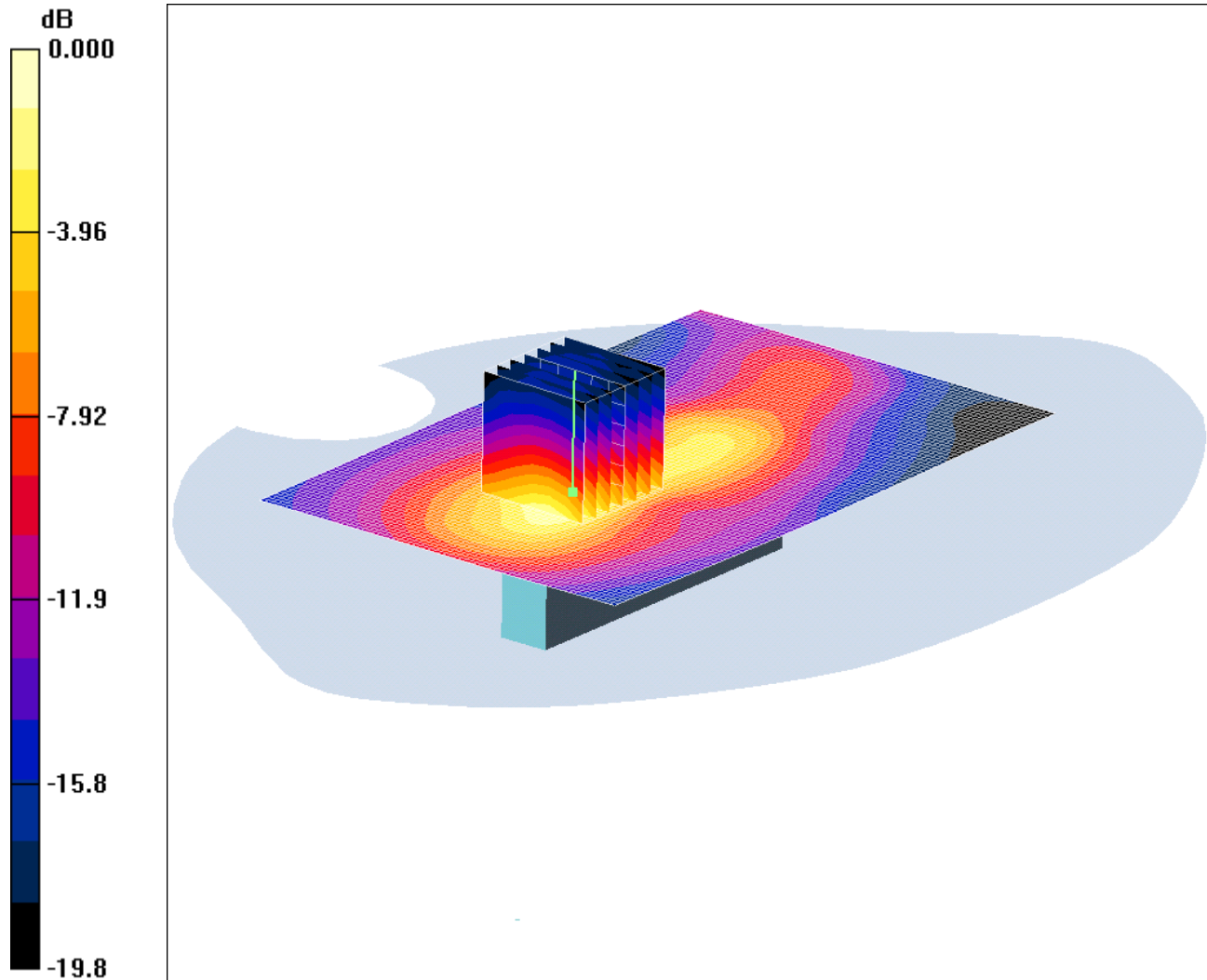
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 14/11/2009

SCN/76288JD01/068 - Vertical - Back of EUT Facing Phantom TD-CDMA 3.84 Mcps 16QAM CH12965 6 Time Slots

DUT: IPWireless; Type: ADT; Serial: ADWA928000816



0 dB = 0.462mW/g

Communication System: TDCDMA - 3.84 Mcps / 5MHz Channel; Frequency: 2593 MHz; Duty Cycle: 1:2.5

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2593$ MHz; $\sigma = 2.06$ mho/m; $\epsilon_r = 50.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.73, 7.73, 7.73); Calibrated: 16/01/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Vertical Back of EUT Facing Phantom - Low/Area Scan (71x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.392 mW/g

Vertical Back of EUT Facing Phantom - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.63 V/m; Power Drift = 0.101 dB

Peak SAR (extrapolated) = 0.848 W/kg

SAR(1 g) = 0.407 mW/g; SAR(10 g) = 0.194 mW/g

Maximum value of SAR (measured) = 0.462 mW/g

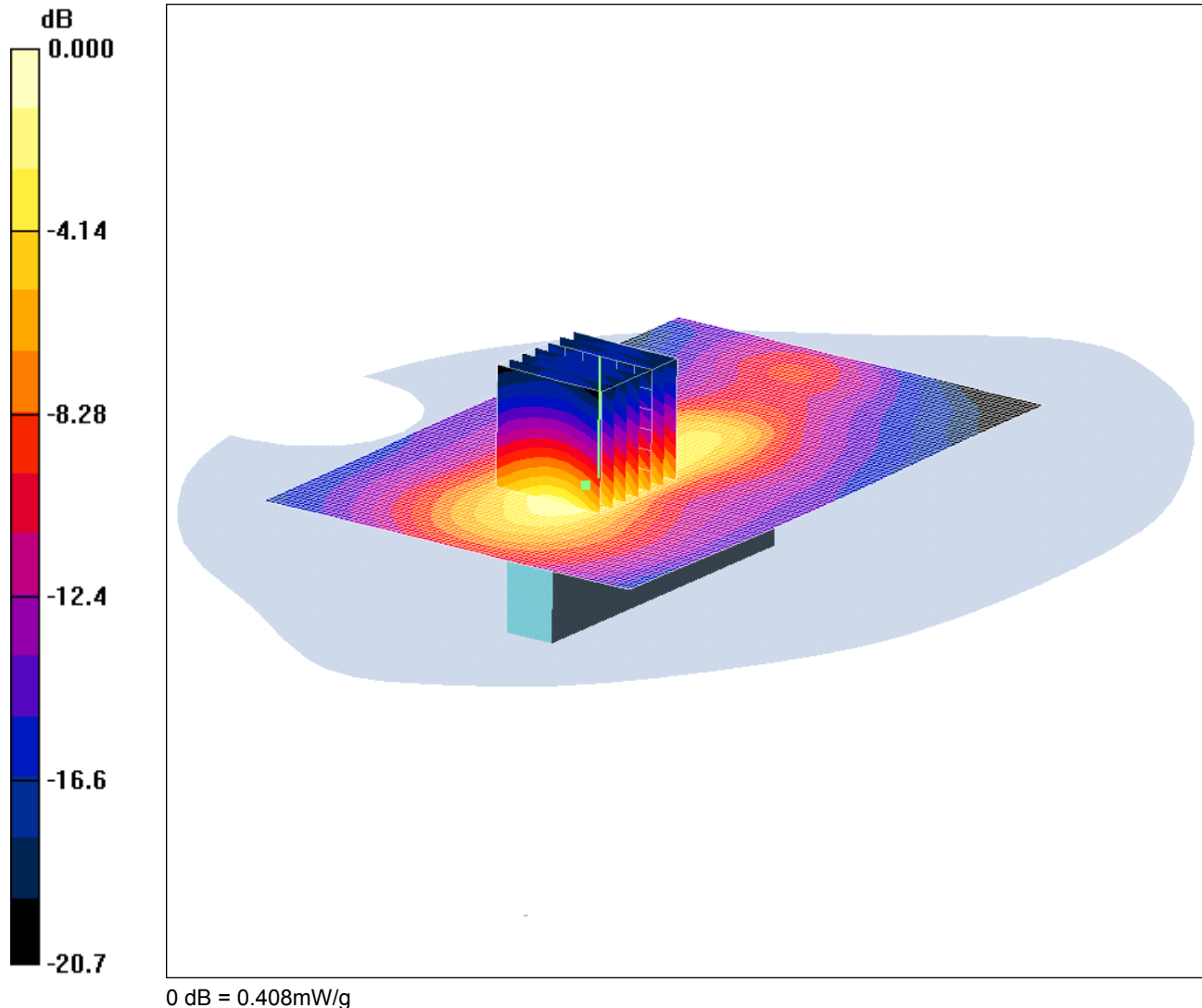
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 14/11/2009

SCN/76288JD01/069 - Vertical - Back of EUT Facing Phantom TD-CDMA 3.84 Mcps 16QAM CH13436 6 Time Slots

DUT: IPWireless; Type: ADT; Serial: ADWA928000816



Communication System: TDCDMA - 3.84 Mcps / 5MHz Channel; Frequency: 2687.2 MHz; Duty Cycle: 1:2.5

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2687.2$ MHz; $\sigma = 2.19$ mho/m; $\epsilon_r = 49.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.73, 7.73, 7.73); Calibrated: 16/01/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Vertical Back of EUT Facing Phantom - High/Area Scan (71x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.383 mW/g

Vertical Back of EUT Facing Phantom - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.70 V/m; Power Drift = 0.161 dB

Peak SAR (extrapolated) = 0.752 W/kg

SAR(1 g) = 0.362 mW/g; SAR(10 g) = 0.171 mW/g

Maximum value of SAR (measured) = 0.408 mW/g

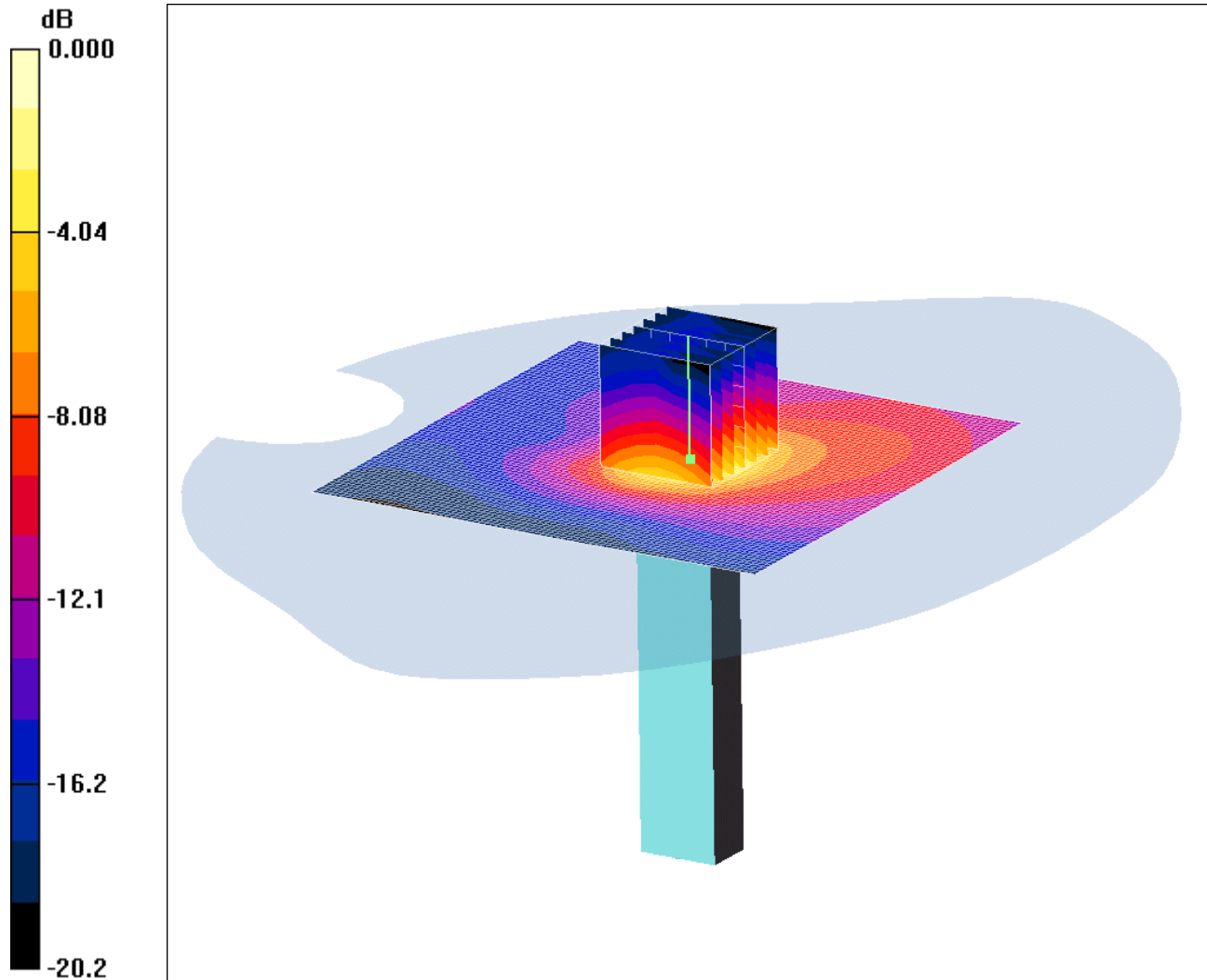
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 15/11/2009

SCN/76288JD01/070 - Top of EUT Facing Phantom TD-CDMA 3.84 Mcps 16QAM CH12494 6 Time Slot

DUT: IPWireless; Type: ADT; Serial: ADWA928000816



0 dB = 0.542mW/g

Communication System: TDCDMA - 3.84 Mcps / 5MHz Channel; Frequency: 2498.8 MHz; Duty Cycle: 1:2.5

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2498.8$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 50.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(8.06, 8.06, 8.06); Calibrated: 26/06/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Top of EUT Facing Phantom - Low/Area Scan (81x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.550 mW/g

Top of EUT Facing Phantom - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.0 V/m; Power Drift = 0.018 dB

Peak SAR (extrapolated) = 0.967 W/kg

SAR(1 g) = 0.471 mW/g; SAR(10 g) = 0.214 mW/g

Maximum value of SAR (measured) = 0.542 mW/g

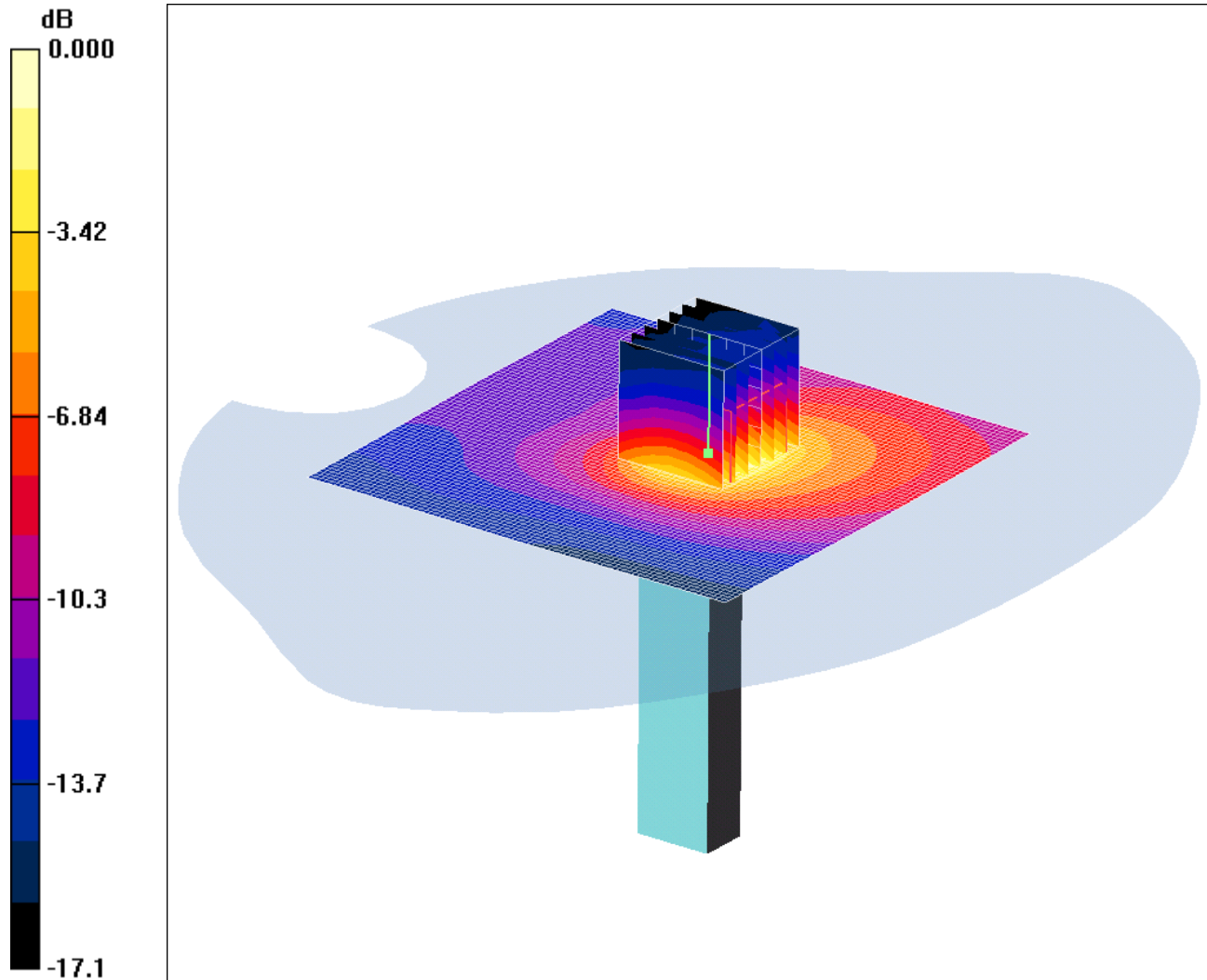
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 15/11/2009

SCN/76288JD01/071 - Top of EUT Facing Phantom TD-CDMA 3.84 Mcps 16QAM CH12965 6 Time Slots

DUT: IPWireless; Type: ADT; Serial: ADWA928000816



0 dB = 0.312mW/g

Communication System: TDCDMA - 3.84 Mcps / 5MHz Channel; Frequency: 2593 MHz; Duty Cycle: 1:2.5

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2593$ MHz; $\sigma = 2.06$ mho/m; $\epsilon_r = 50.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.73, 7.73, 7.73); Calibrated: 16/01/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Top of EUT Facing Phantom - Middle/Area Scan (81x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.313 mW/g

Top of EUT Facing Phantom - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.62 V/m; Power Drift = 0.123 dB

Peak SAR (extrapolated) = 0.562 W/kg

SAR(1 g) = 0.279 mW/g; SAR(10 g) = 0.132 mW/g

Maximum value of SAR (measured) = 0.312 mW/g

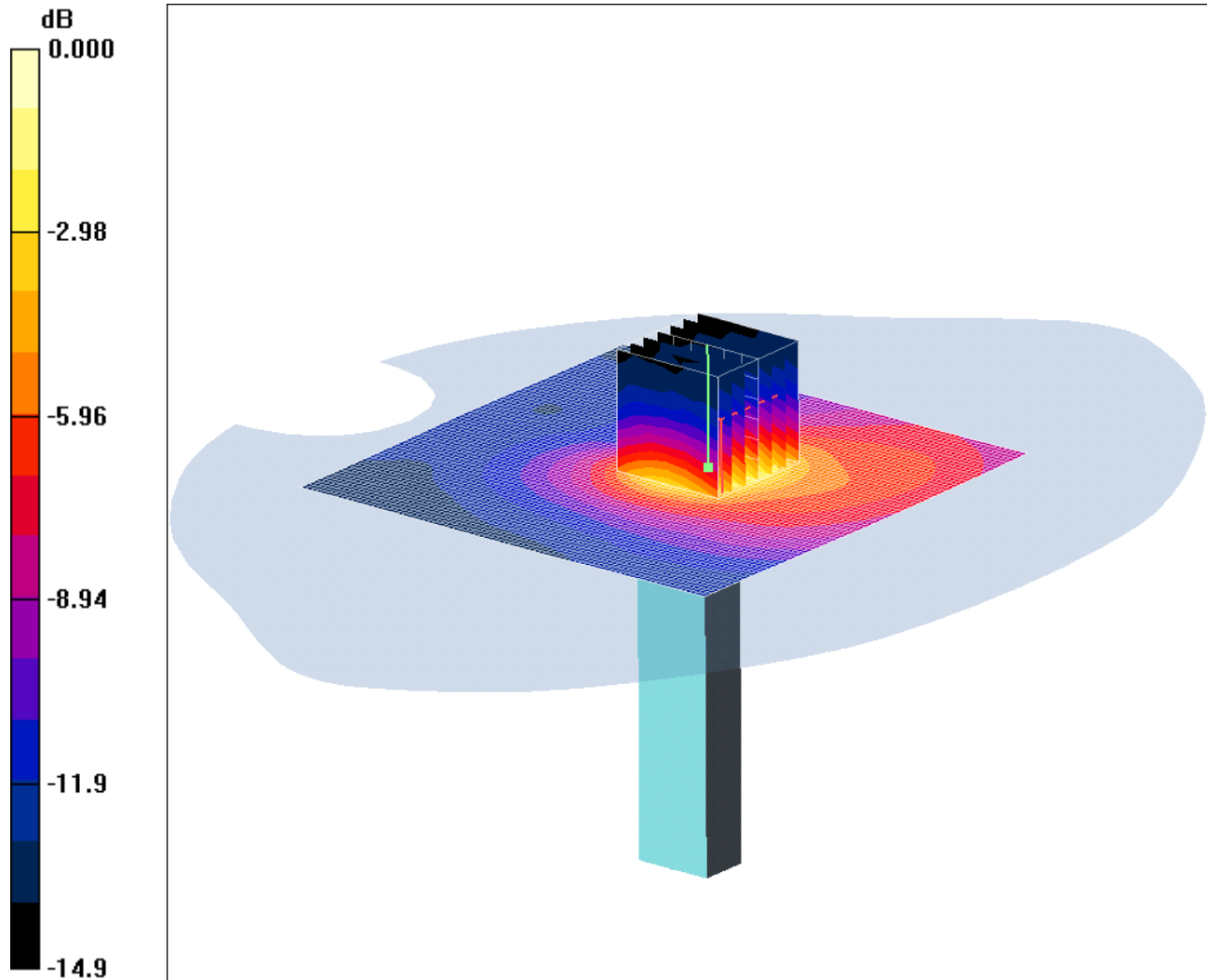
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 15/11/2009

SCN/76288JD01/072 - Top of EUT Facing Phantom TD-CDMA 3.84 Mcps 16QAM CH13436 6 Time Slots

DUT: IPWireless; Type: ADT; Serial: ADWA928000816



0 dB = 0.195mW/g

Communication System: TDCDMA - 3.84 Mcps / 5MHz Channel; Frequency: 2687.2 MHz; Duty Cycle: 1:2.5

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2687.2$ MHz; $\sigma = 2.19$ mho/m; $\epsilon_r = 49.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.73, 7.73, 7.73); Calibrated: 16/01/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Top of EUT Facing Phantom - High/Area Scan (81x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.204 mW/g

Top of EUT Facing Phantom - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.56 V/m; Power Drift = 0.047 dB

Peak SAR (extrapolated) = 0.357 W/kg

SAR(1 g) = 0.173 mW/g; SAR(10 g) = 0.082 mW/g

Maximum value of SAR (measured) = 0.195 mW/g

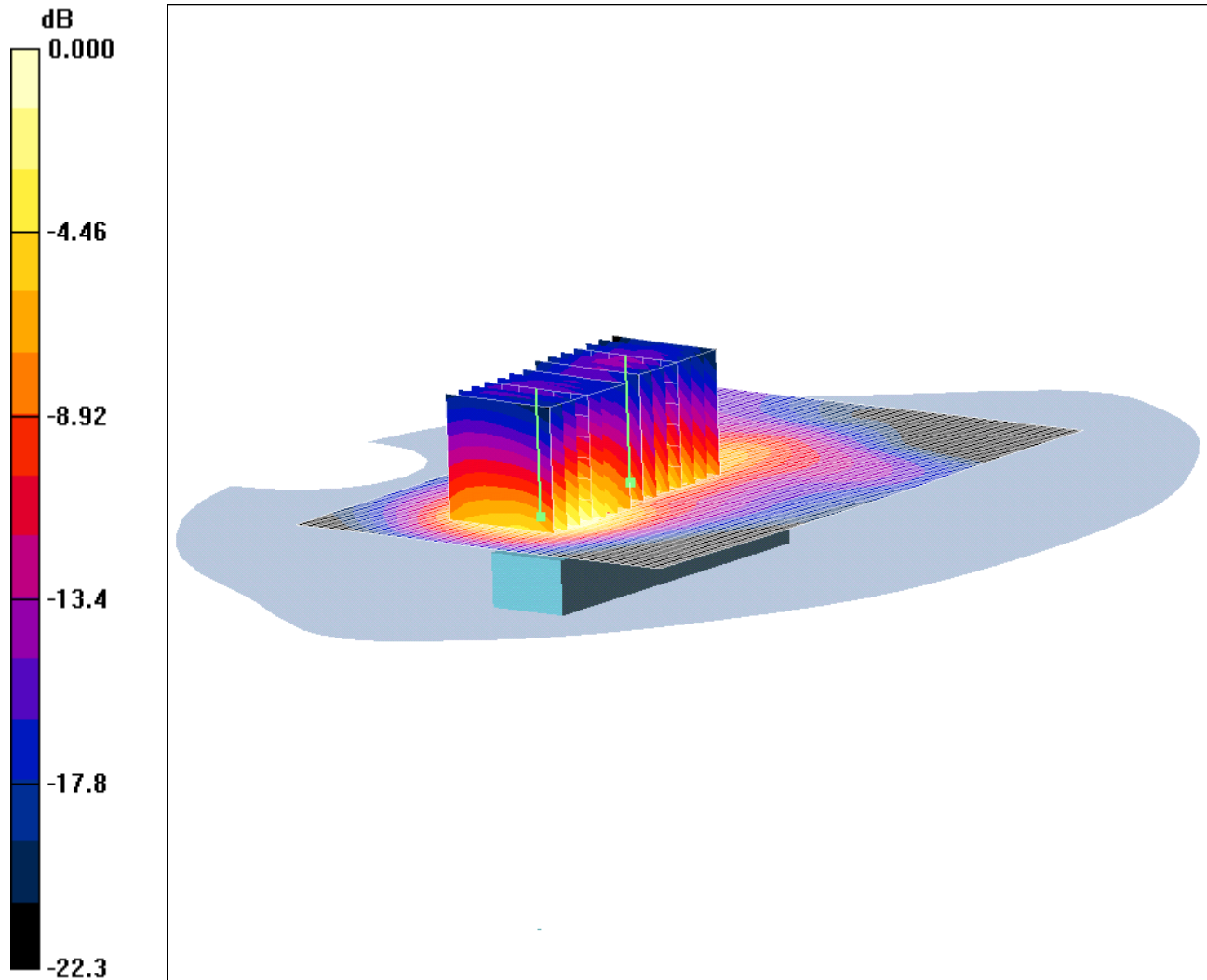
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 15/11/2009

SCN/76288JD01/073 - Horizontal - Up of EUT Facing Phantom TD-CDMA 3.84 Mcps 16QAM CH12494 6 Time Slots

DUT: IPWireless; Type: ADT; Serial: ADWA928000816



0 dB = 0.698mW/g

Communication System: TDCDMA - 3.84 Mcps / 5MHz Channel; Frequency: 2498.8 MHz; Duty Cycle: 1:2.5

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2498.8$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 50.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(8.06, 8.06, 8.06); Calibrated: 26/06/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Horizontal Down of EUT Facing Phantom - Low/Area Scan (71x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.817 mW/g

Horizontal Down of EUT Facing Phantom - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.0 V/m; Power Drift = -0.004 dB; Peak SAR (extrapolated) = 1.47 W/kg

SAR(1 g) = 0.735 mW/g; SAR(10 g) = 0.358 mW/g; Maximum value of SAR (measured) = 0.828 mW/g**Horizontal Down of EUT Facing Phantom - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.0 V/m; Power Drift = -0.004 dB; Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.616 mW/g; SAR(10 g) = 0.297 mW/g; Maximum value of SAR (measured) = 0.698 mW/g

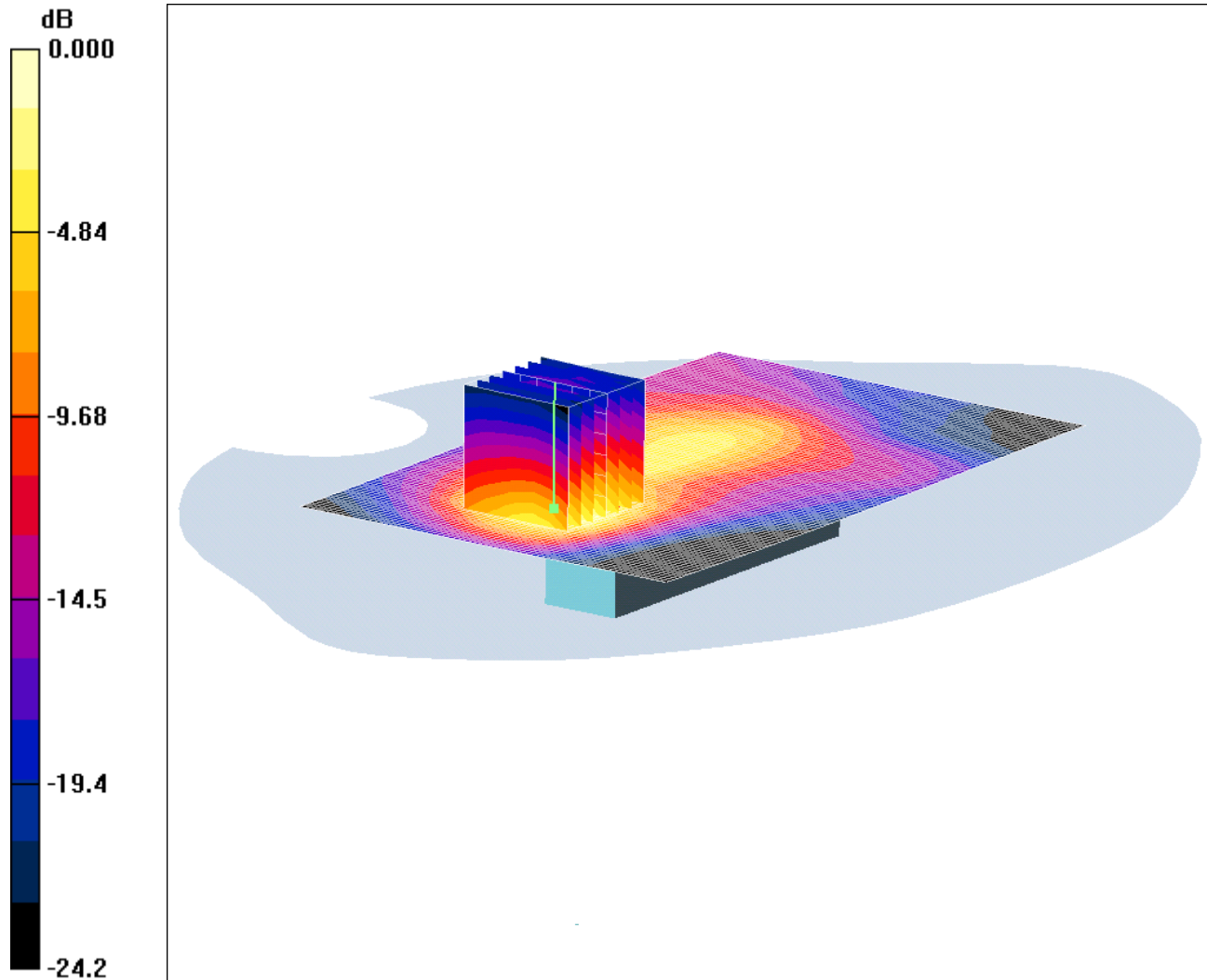
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 14/11/2009

SCN/76288JD01/074 - Horizontal - Up of EUT Facing Phantom TD-CDMA 3.84 Mcps 16QAM CH12965 6 Time Slots

DUT: IPWireless; Type: ADT; Serial: ADWA928000816



0 dB = 0.675mW/g

Communication System: TDCDMA - 3.84 Mcps / 5MHz Channel; Frequency: 2593 MHz; Duty Cycle: 1:2.5

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2593$ MHz; $\sigma = 2.06$ mho/m; $\epsilon_r = 50.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.73, 7.73, 7.73); Calibrated: 16/01/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Horizontal Down of EUT Facing Phantom - Middle/Area Scan (71x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.679 mW/g

Horizontal Down of EUT Facing Phantom - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.37 V/m; Power Drift = 0.190 dB

Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.599 mW/g; SAR(10 g) = 0.283 mW/g

Maximum value of SAR (measured) = 0.675 mW/g

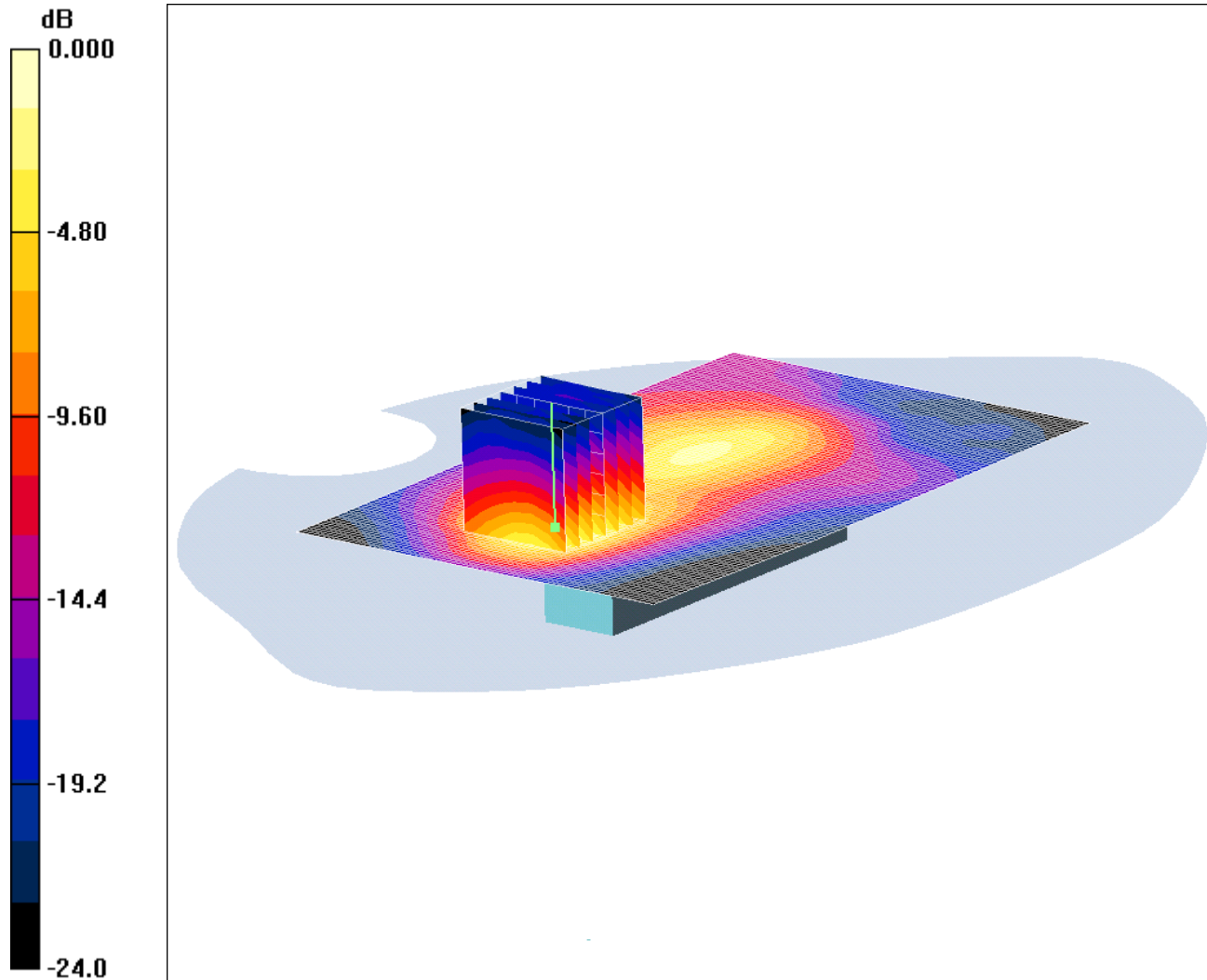
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 15/11/2009

SCN/76288JD01/075 - Horizontal - Up of EUT Facing Phantom TD-CDMA 3.84 Mcps 16QAM CH13436 6 Time Slots

DUT: IPWireless; Type: ADT; Serial: ADWA928000816



0 dB = 0.440mW/g

Communication System: TDCDMA - 3.84 Mcps / 5MHz Channel; Frequency: 2687.2 MHz; Duty Cycle: 1:2.5

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2687.2$ MHz; $\sigma = 2.19$ mho/m; $\epsilon_r = 49.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.73, 7.73, 7.73); Calibrated: 16/01/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Horizontal Down of EUT Facing Phantom - High/Area Scan (71x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.458 mW/g

Horizontal Down of EUT Facing Phantom - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.67 V/m; Power Drift = 0.109 dB

Peak SAR (extrapolated) = 0.819 W/kg

SAR(1 g) = 0.394 mW/g; SAR(10 g) = 0.188 mW/g

Maximum value of SAR (measured) = 0.440 mW/g

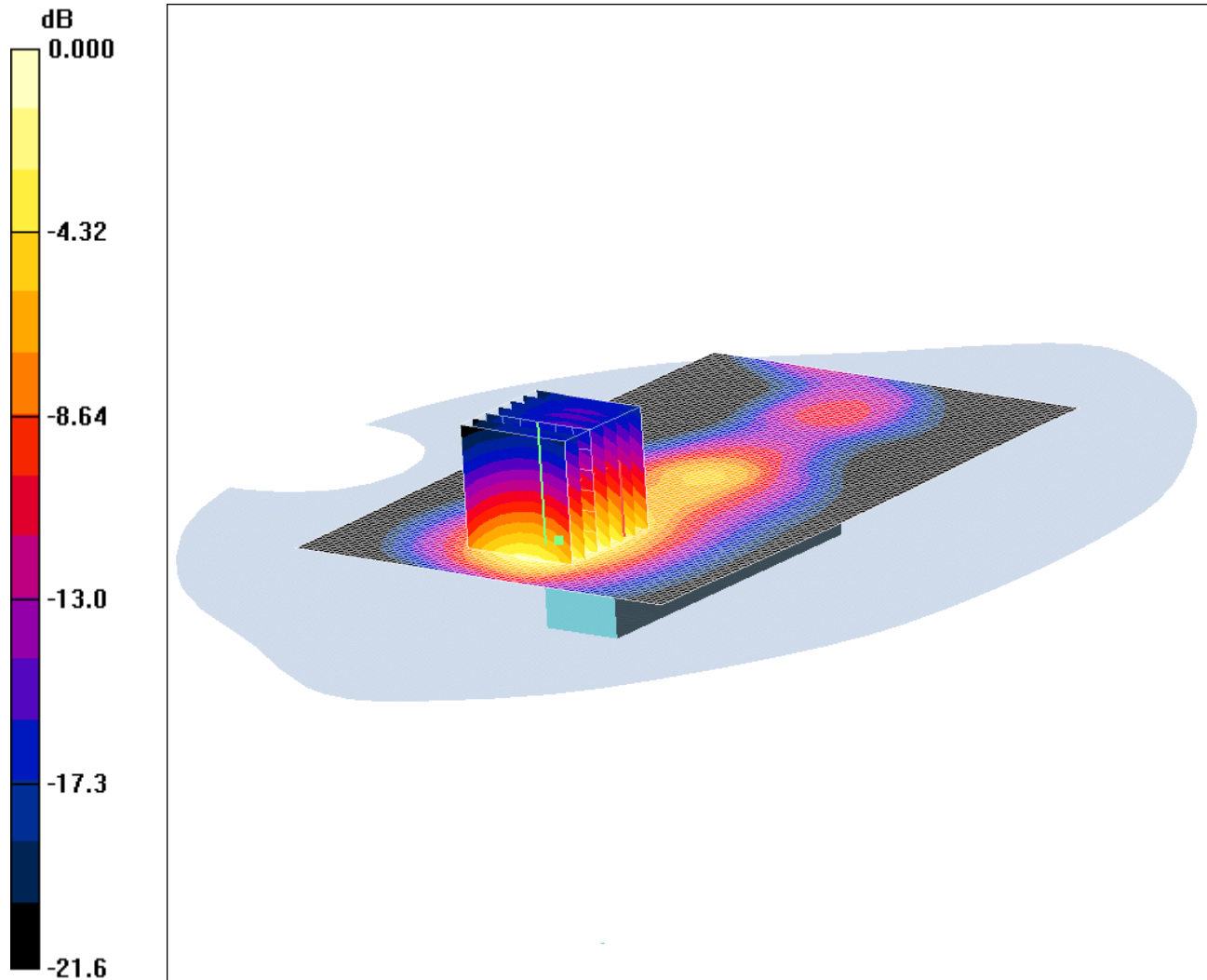
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 15/11/2009

SCN/76288JD01/076 - Horizontal - Down of EUT Facing Phantom TD-CDMA 7.68 Mcps 16QAM CH12507 6 Time Slots

DUT: IPWireless; Type: ADT; Serial: ADWA928000816



0 dB = 1.62mW/g

Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2501.4 MHz; Duty Cycle: 1:1

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2501.4$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 50.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(8.06, 8.06, 8.06); Calibrated: 26/06/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Horizontal Down of EUT Facing Phantom - Low/Area Scan (71x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.81 mW/g

Horizontal Down of EUT Facing Phantom - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.7 V/m; Power Drift = 0.030 dB

Peak SAR (extrapolated) = 2.80 W/kg

SAR(1 g) = 1.47 mW/g; SAR(10 g) = 0.740 mW/g

Maximum value of SAR (measured) = 1.62 mW/g

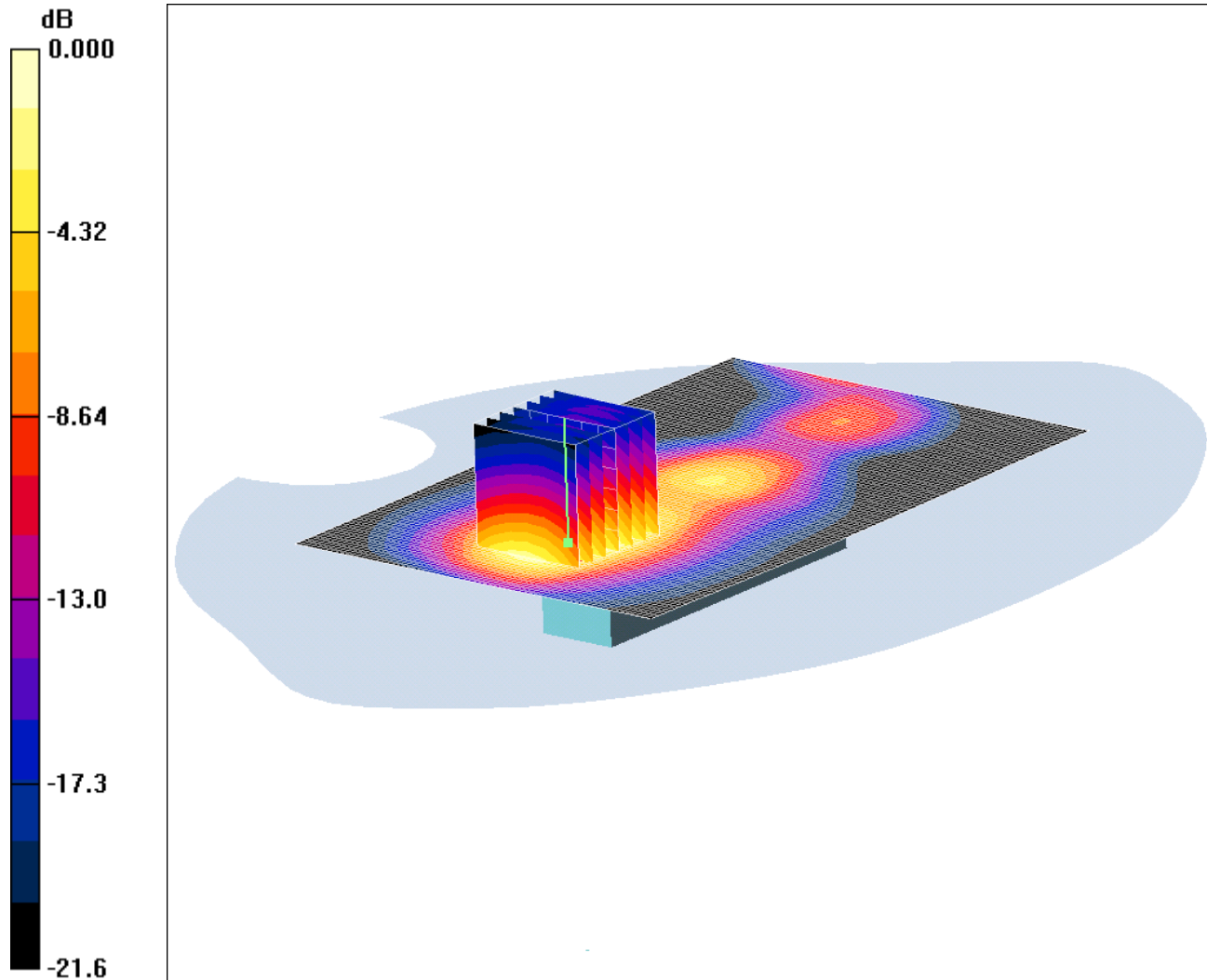
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 15/11/2009

SCN/76288JD01/077- Horizontal - Down of EUT Facing Phantom TD-CDMA 7.68 Mcps 16QAM CH12965 6 Time Slots

DUT: IPWireless; Type: ADT; Serial: ADWA928000816



0 dB = 1.12mW/g

Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2593 MHz; Duty Cycle: 1:1

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2593$ MHz; $\sigma = 2.06$ mho/m; $\epsilon_r = 50.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.73, 7.73, 7.73); Calibrated: 16/01/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Horizontal Down of EUT Facing Phantom - Middle/Area Scan (71x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.32 mW/g

Horizontal Down of EUT Facing Phantom - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.2 V/m; Power Drift = 0.025 dB

Peak SAR (extrapolated) = 1.91 W/kg

SAR(1 g) = 1.01 mW/g; SAR(10 g) = 0.532 mW/g

Maximum value of SAR (measured) = 1.12 mW/g

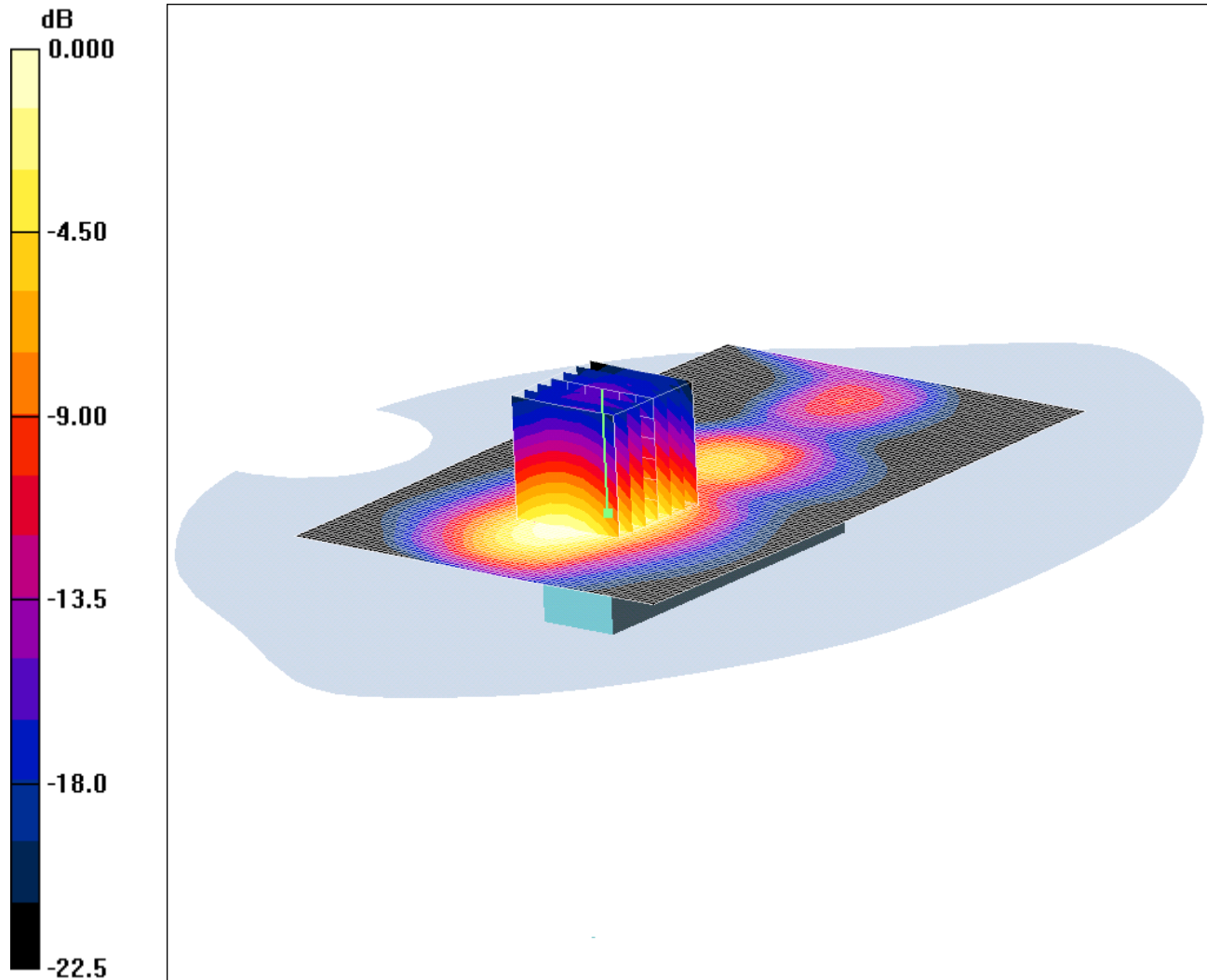
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 15/11/2009

SCN/76288JD01/078 - Horizontal - Down of EUT Facing Phantom TD-CDMA 7.68 Mcps 16QAM CH13420 6 Time Slots

DUT: IPWireless; Type: ADT; Serial: ADWA928000816



0 dB = 0.661mW/g

Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2684.6 MHz; Duty Cycle: 1:1

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2684.6$ MHz; $\sigma = 2.18$ mho/m; $\epsilon_r = 49.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.73, 7.73, 7.73); Calibrated: 16/01/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Horizontal Down of EUT Facing Phantom - High/Area Scan (71x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.706 mW/g

Horizontal Down of EUT Facing Phantom - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.16 V/m; Power Drift = -0.006 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.589 mW/g; SAR(10 g) = 0.298 mW/g

Maximum value of SAR (measured) = 0.661 mW/g

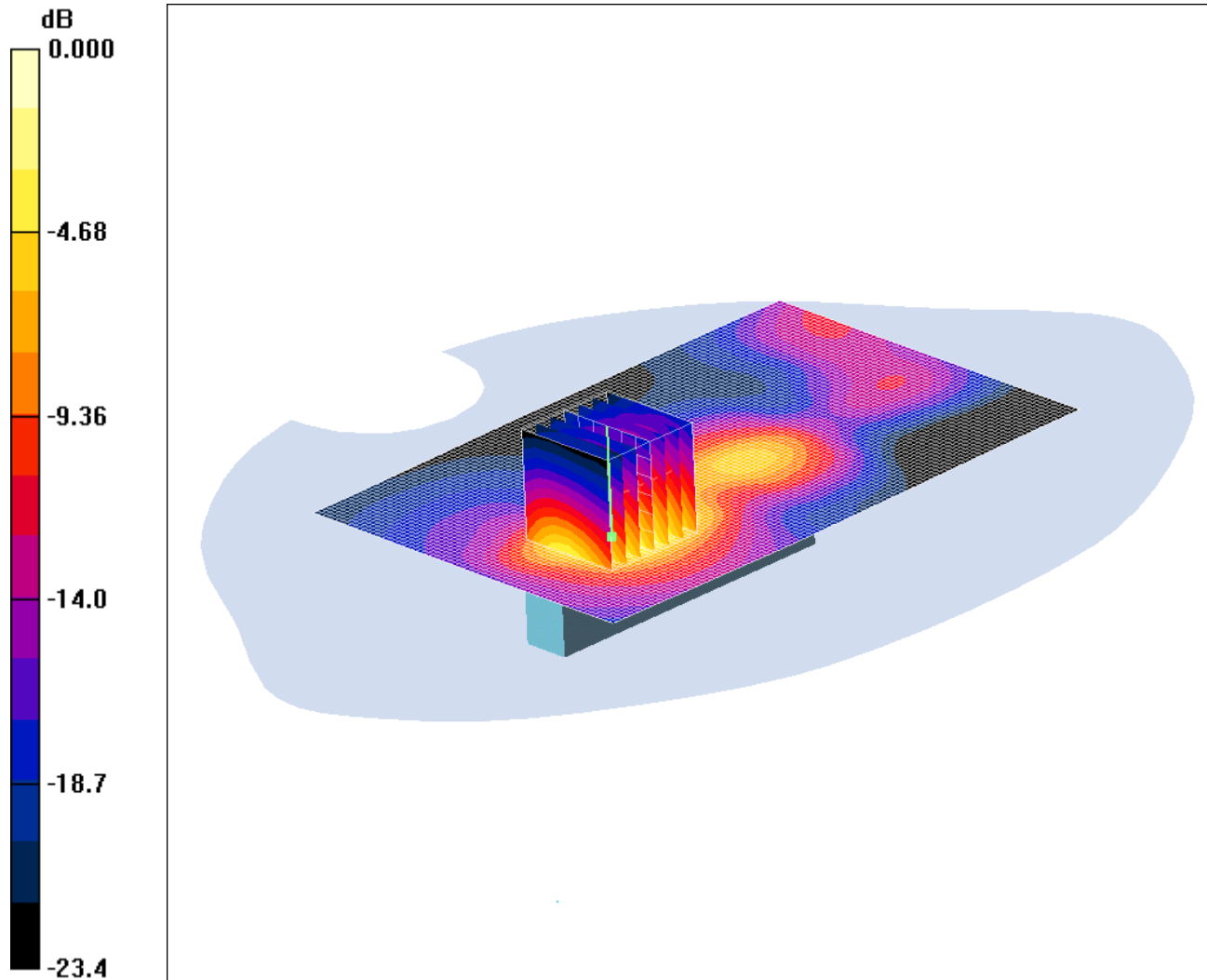
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 15/11/2009

SCN/76288JD01/079 - Vertical-Front of EUT Facing Phantom TD-CDMA 7.68 Mcps 16QAM CH12507 6 Time Slots

DUT: IPWireless; Type: ADT; Serial: ADWA928000816



0 dB = 1.27mW/g

Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2501.4 MHz; Duty Cycle: 1:2.5

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2501.4$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 50.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(8.06, 8.06, 8.06); Calibrated: 26/06/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Vertical Front of EUT Facing Phantom - Low/Area Scan (71x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.40 mW/g

Vertical Front of EUT Facing Phantom - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.94 V/m; Power Drift = 0.141 dB

Peak SAR (extrapolated) = 2.21 W/kg

SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.498 mW/g

Maximum value of SAR (measured) = 1.27 mW/g

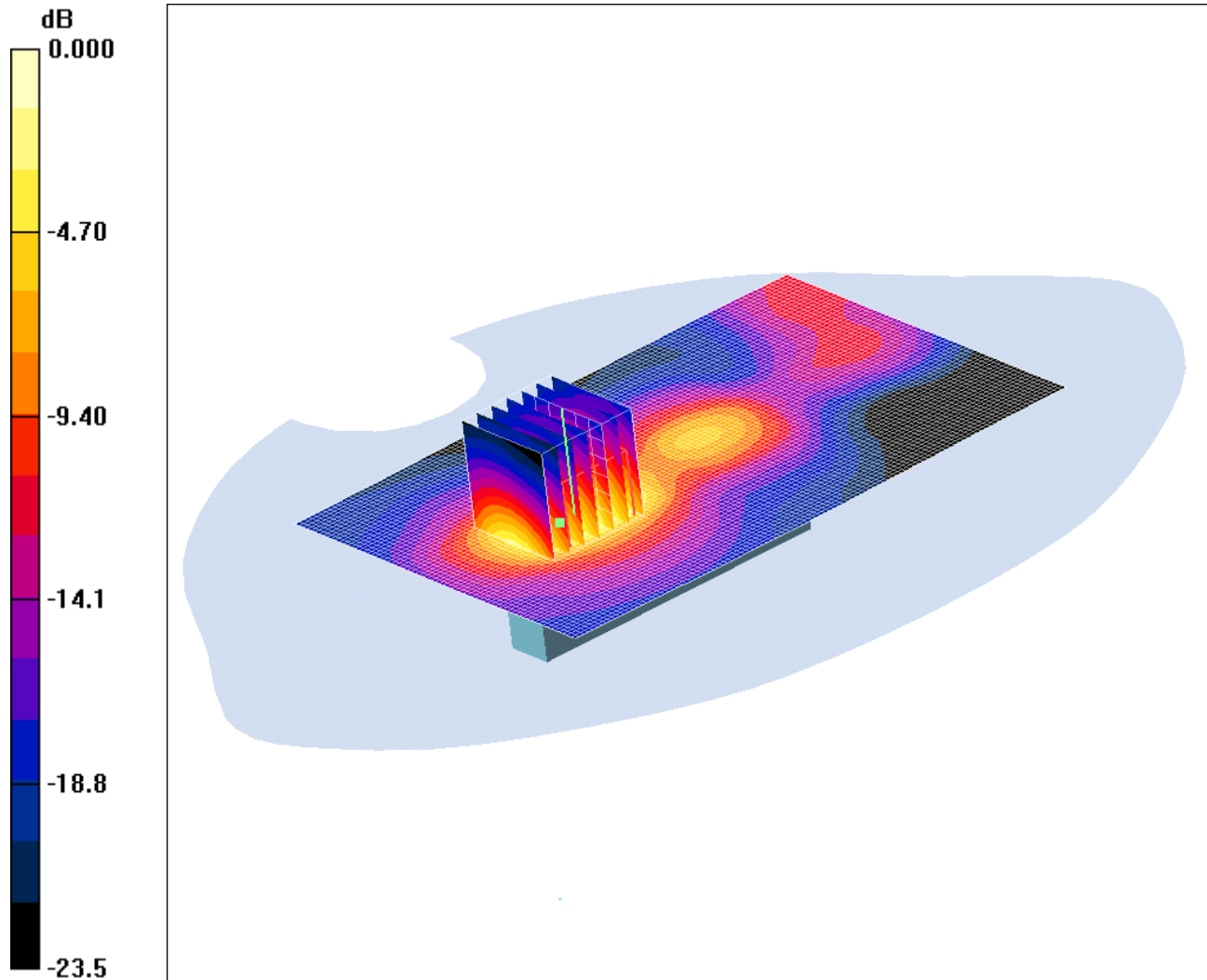
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 15/11/2009

SCN/76288JD01/080 - Vertical-Front of EUT Facing Phantom TD-CDMA 7.68 Mcps 16QAM CH12965 6 Time Slots

DUT: IPWireless; Type: ADT; Serial: ADWA928000816



0 dB = 1.09mW/g

Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2593 MHz; Duty Cycle: 1:2.5
 Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2593$ MHz; $\sigma = 2.06$ mho/m; $\epsilon_r = 50.3$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.73, 7.73, 7.73); Calibrated: 16/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn450; Calibrated: 30/04/2009
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Vertical Front of EUT Facing Phantom - Middle/Area Scan (71x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.03 mW/g

Vertical Front of EUT Facing Phantom - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.5 V/m; Power Drift = -0.005 dB

Peak SAR (extrapolated) = 1.90 W/kg

SAR(1 g) = 0.940 mW/g; SAR(10 g) = 0.435 mW/g

Maximum value of SAR (measured) = 1.09 mW/g

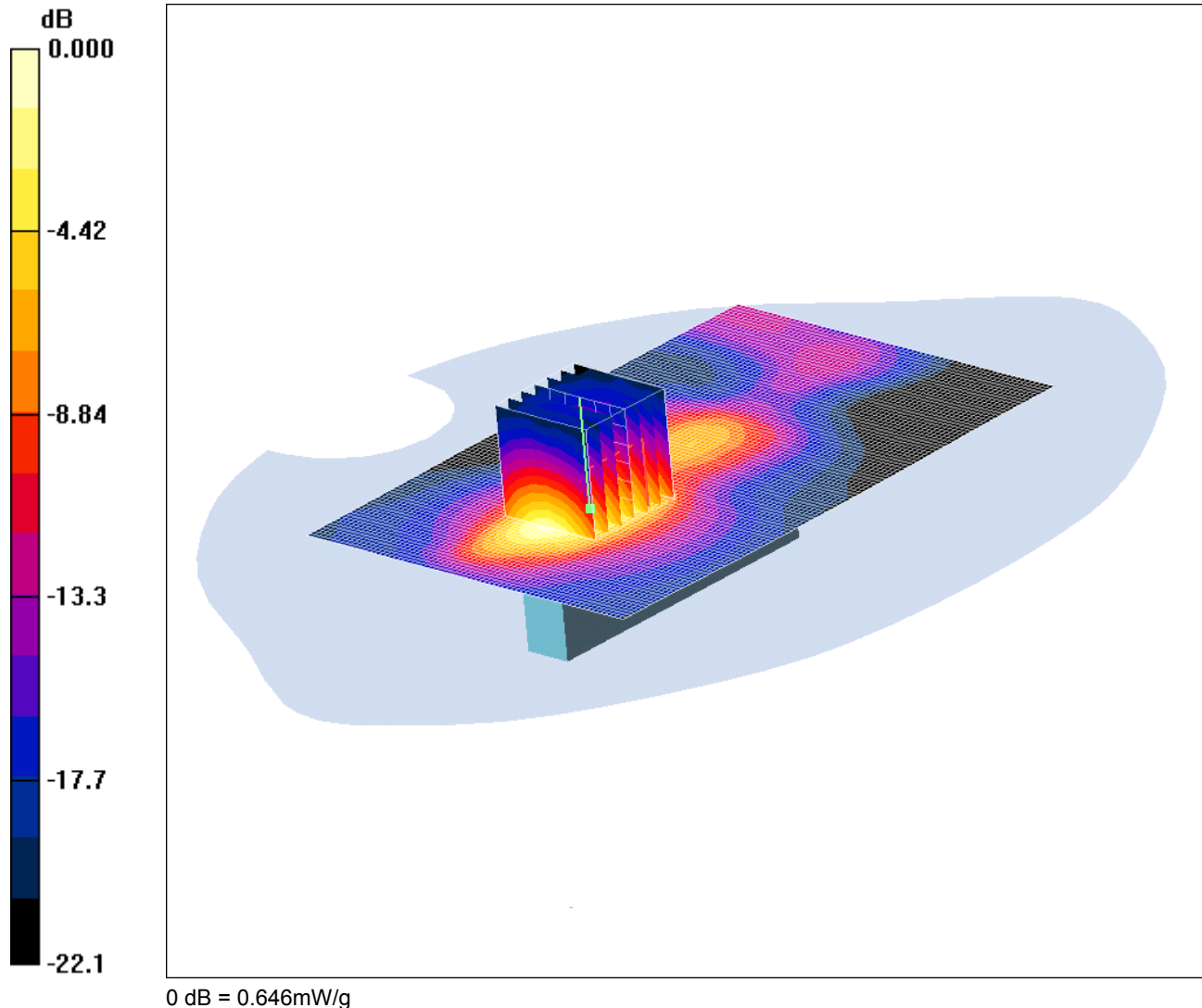
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 15/11/2009

SCN/76288JD01/081 - Vertical-Front of EUT Facing Phantom TD-CDMA 7.68 Mcps 16QAM CH13420 6 Time Slots

DUT: IPWireless; Type: ADT; Serial: ADWA928000816



Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2684.6 MHz; Duty Cycle: 1:2.5

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2684.6$ MHz; $\sigma = 2.18$ mho/m; $\epsilon_r = 49.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.73, 7.73, 7.73); Calibrated: 16/01/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Vertical Front of EUT Facing Phantom - High/Area Scan (71x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.617 mW/g

Vertical Front of EUT Facing Phantom - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.04 V/m; Power Drift = 0.029 dB

Peak SAR (extrapolated) = 1.15 W/kg

SAR(1 g) = 0.560 mW/g; SAR(10 g) = 0.257 mW/g

Maximum value of SAR (measured) = 0.646 mW/g

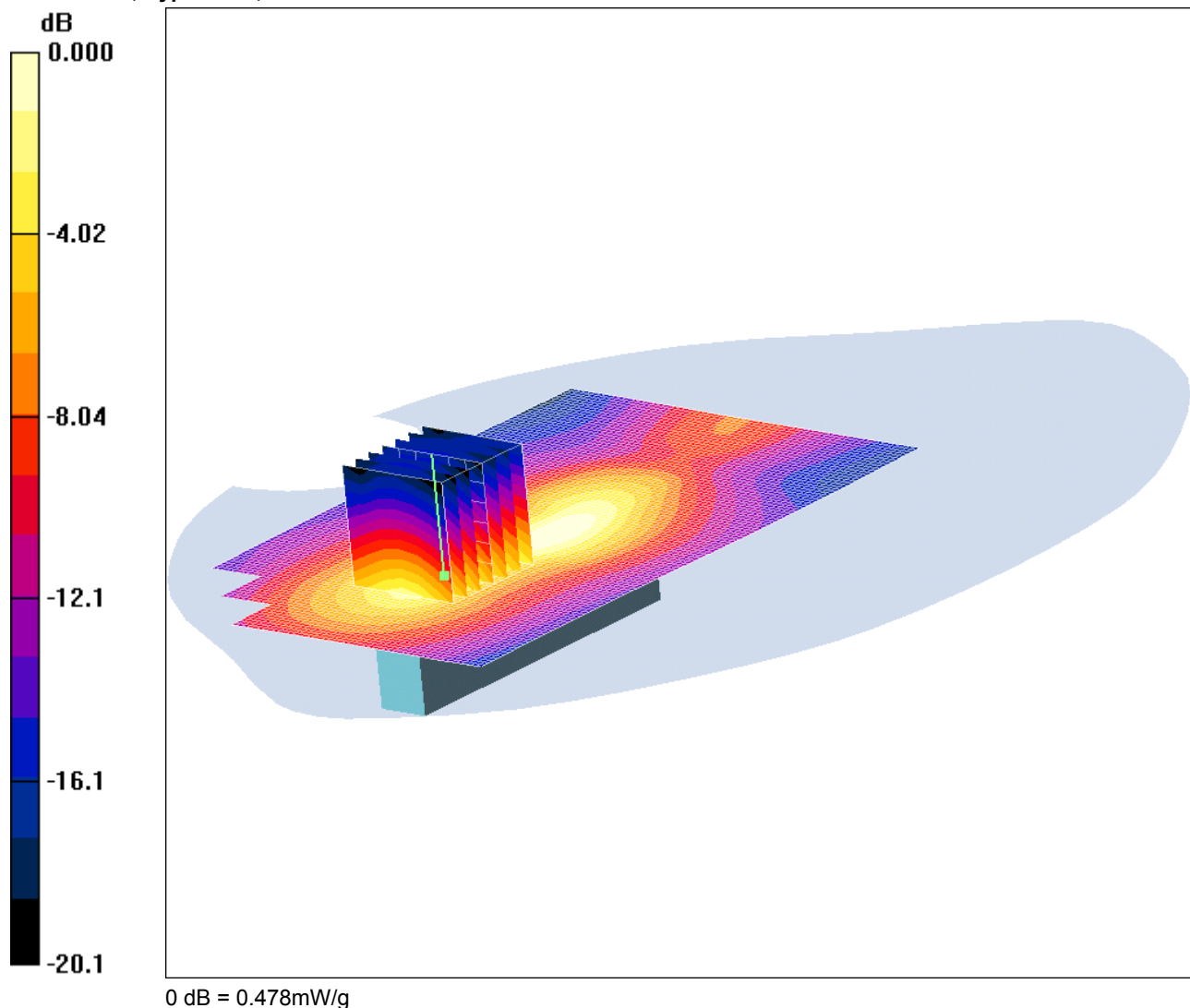
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 16/11/2009

SCN/76288JD01/082 - Vertical-Back of EUT Facing Phantom TD-CDMA 7.68 Mcps 16QAM CH12507 6 Time Slots

DUT: IPWireless; Type: ADT; Serial: ADWA928000816



Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2501.4 MHz; Duty Cycle: 1:2.5

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2501.4$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 50.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(8.06, 8.06, 8.06); Calibrated: 26/06/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Vertical Front of EUT Facing Phantom - Low/Area Scan (71x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.453 mW/g

Vertical Front of EUT Facing Phantom - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.41 V/m; Power Drift = 0.000 dB

Peak SAR (extrapolated) = 0.833 W/kg

SAR(1 g) = 0.425 mW/g; SAR(10 g) = 0.213 mW/g

Maximum value of SAR (measured) = 0.478 mW/g

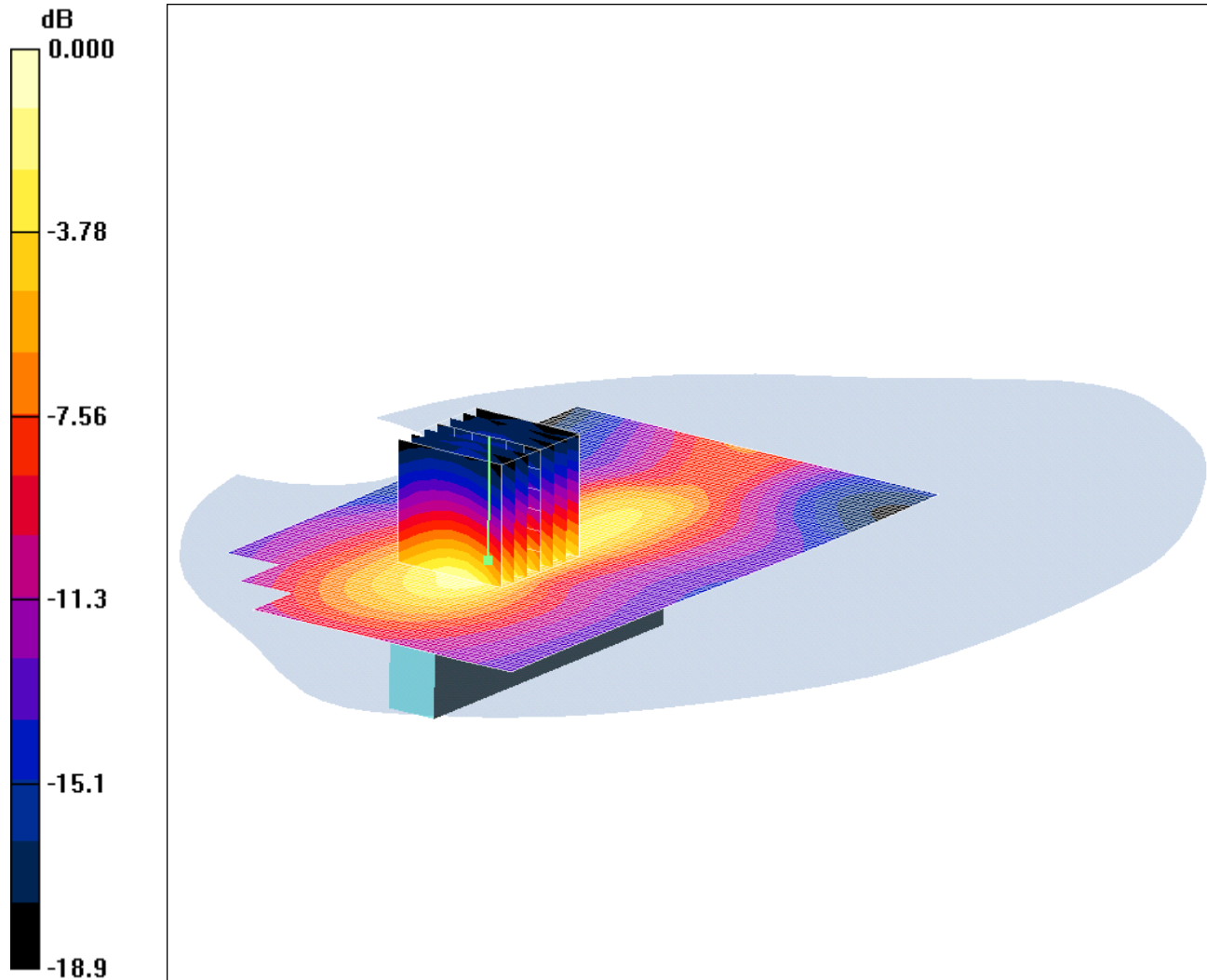
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 16/11/2009

SCN/76288JD01/083 - Vertical-Back of EUT Facing Phantom TD-CDMA 7.68 Mcps 16QAM CH12965 6 Time Slots

DUT: IPWireless; Type: ADT; Serial: ADWA928000816



0 dB = 0.413mW/g

Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2593 MHz; Duty Cycle: 1:2.5
 Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2593$ MHz; $\sigma = 2.06$ mho/m; $\epsilon_r = 50.5$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.73, 7.73, 7.73); Calibrated: 16/01/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Vertical Front of EUT Facing Phantom - Middle/Area Scan (71x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.376 mW/g

Vertical Front of EUT Facing Phantom - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.89 V/m; Power Drift = -0.196 dB

Peak SAR (extrapolated) = 0.742 W/kg

SAR(1 g) = 0.364 mW/g; SAR(10 g) = 0.179 mW/g

Maximum value of SAR (measured) = 0.413 mW/g

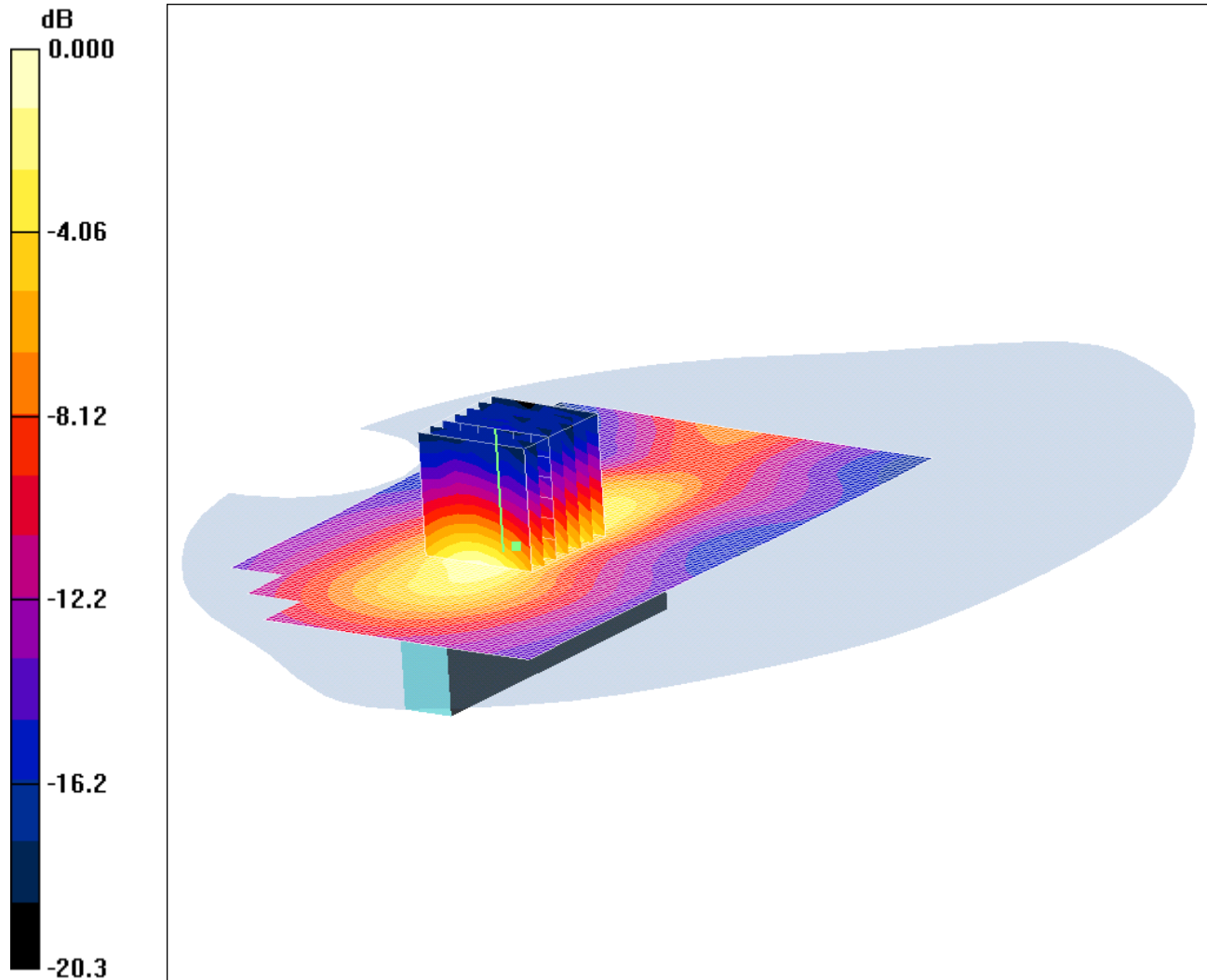
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 16/11/2009

SCN/76288JD01/084 - Vertical-Back of EUT Facing Phantom TD-CDMA 7.68 Mcps 16QAM CH13420 6 Time Slots

DUT: IPWireless; Type: ADT; Serial: ADWA928000816



0 dB = 0.243mW/g

Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2684.6 MHz; Duty Cycle: 1:2.5

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2684.6$ MHz; $\sigma = 2.18$ mho/m; $\epsilon_r = 50$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.73, 7.73, 7.73); Calibrated: 16/01/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Vertical Front of EUT Facing Phantom - High/Area Scan (71x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.219 mW/g

Vertical Front of EUT Facing Phantom - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.17 V/m; Power Drift = 0.018 dB

Peak SAR (extrapolated) = 0.453 W/kg

SAR(1 g) = 0.217 mW/g; SAR(10 g) = 0.105 mW/g

Maximum value of SAR (measured) = 0.243 mW/g

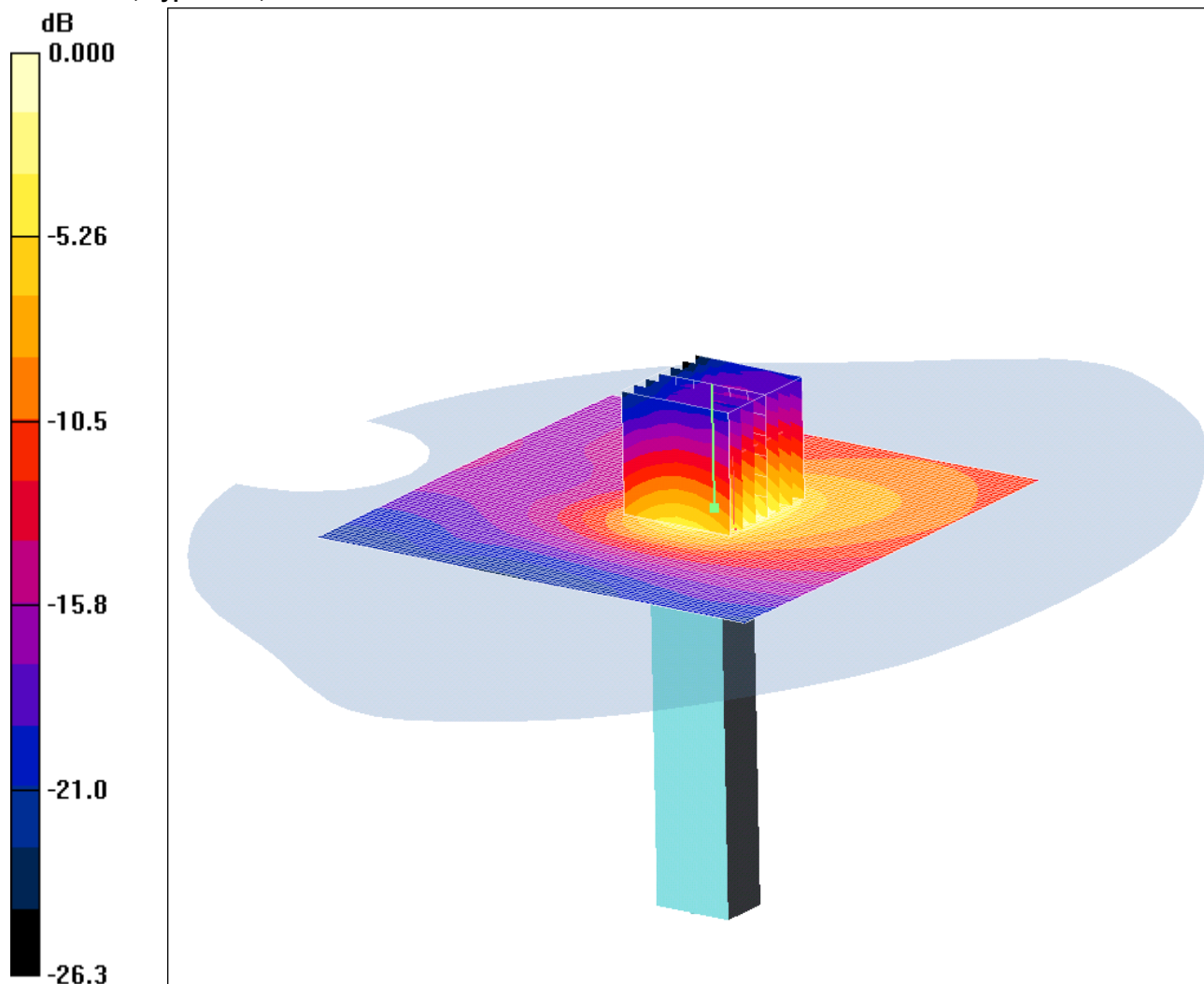
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 16/11/2009

SCN/76288JD01/085 - Top of EUT Facing Phantom TD-CDMA 7.68 Mcps 16QAM CH12507 6 Time Slots

DUT: IPWireless; Type: ADT; Serial: ADWA928000816



0 dB = 0.527mW/g

Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2501.4 MHz; Duty Cycle: 1:2.5

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2501.4$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 50.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(8.06, 8.06, 8.06); Calibrated: 26/06/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Top of EUT Facing Phantom - Middle/Area Scan (81x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.535 mW/g

Top of EUT Facing Phantom - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.8 V/m; Power Drift = 0.018 dB

Peak SAR (extrapolated) = 0.979 W/kg

SAR(1 g) = 0.465 mW/g; SAR(10 g) = 0.207 mW/g

Maximum value of SAR (measured) = 0.527 mW/g

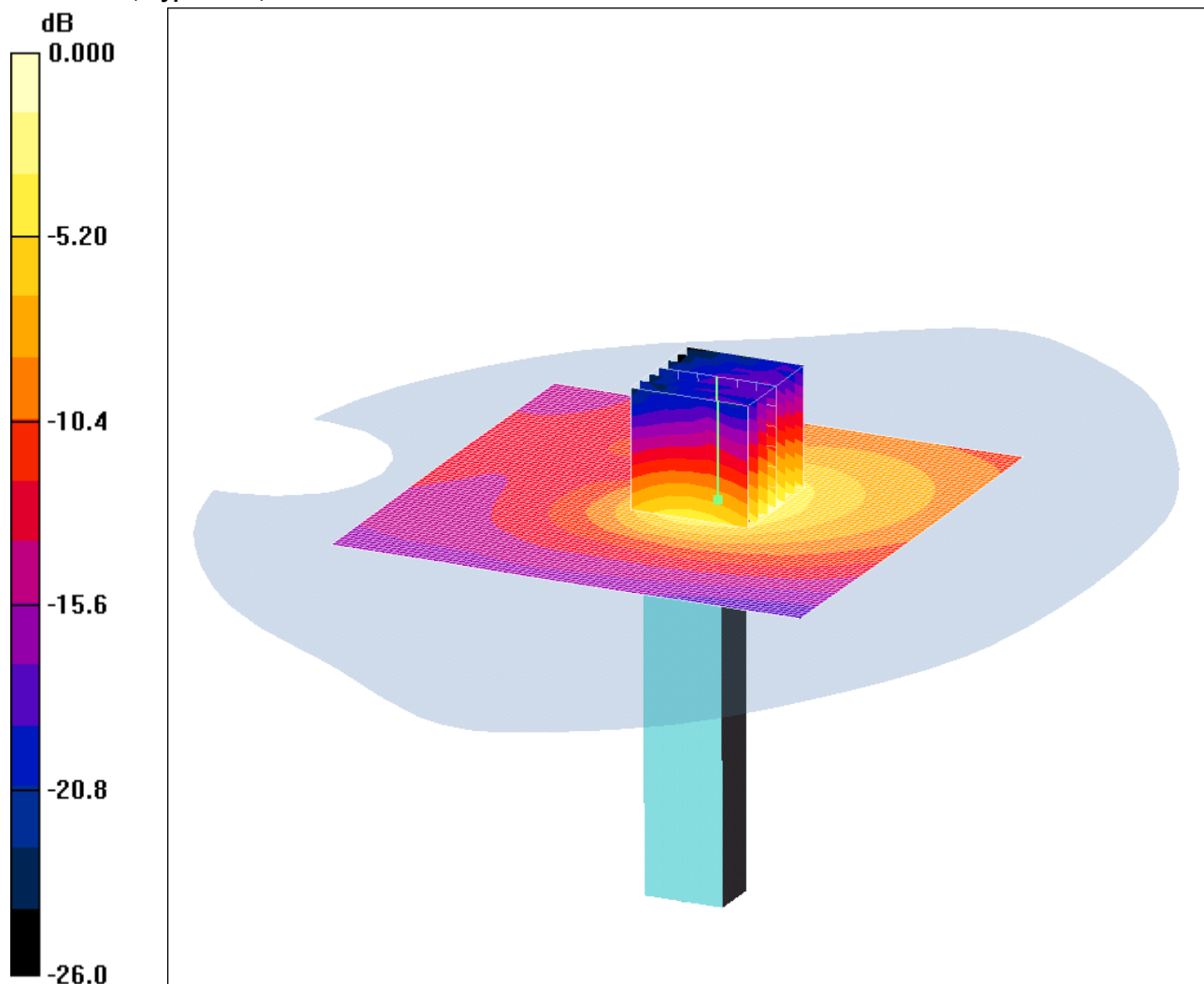
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 16/11/2009

SCN/76288JD01/086 - Top of EUT Facing Phantom TD-CDMA 7.68 Mcps 16QAM CH12965 6 Time Slots

DUT: IPWireless; Type: ADT; Serial: ADWA928000816



0 dB = 0.321mW/g

Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2593 MHz; Duty Cycle: 1:2.5

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2593$ MHz; $\sigma = 2.06$ mho/m; $\epsilon_r = 50.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.73, 7.73, 7.73); Calibrated: 16/01/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Top of EUT Facing Phantom - Middle/Area Scan (81x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.307 mW/g

Top of EUT Facing Phantom - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.97 V/m; Power Drift = -0.078 dB

Peak SAR (extrapolated) = 0.584 W/kg

SAR(1 g) = 0.280 mW/g; SAR(10 g) = 0.129 mW/g

Maximum value of SAR (measured) = 0.321 mW/g

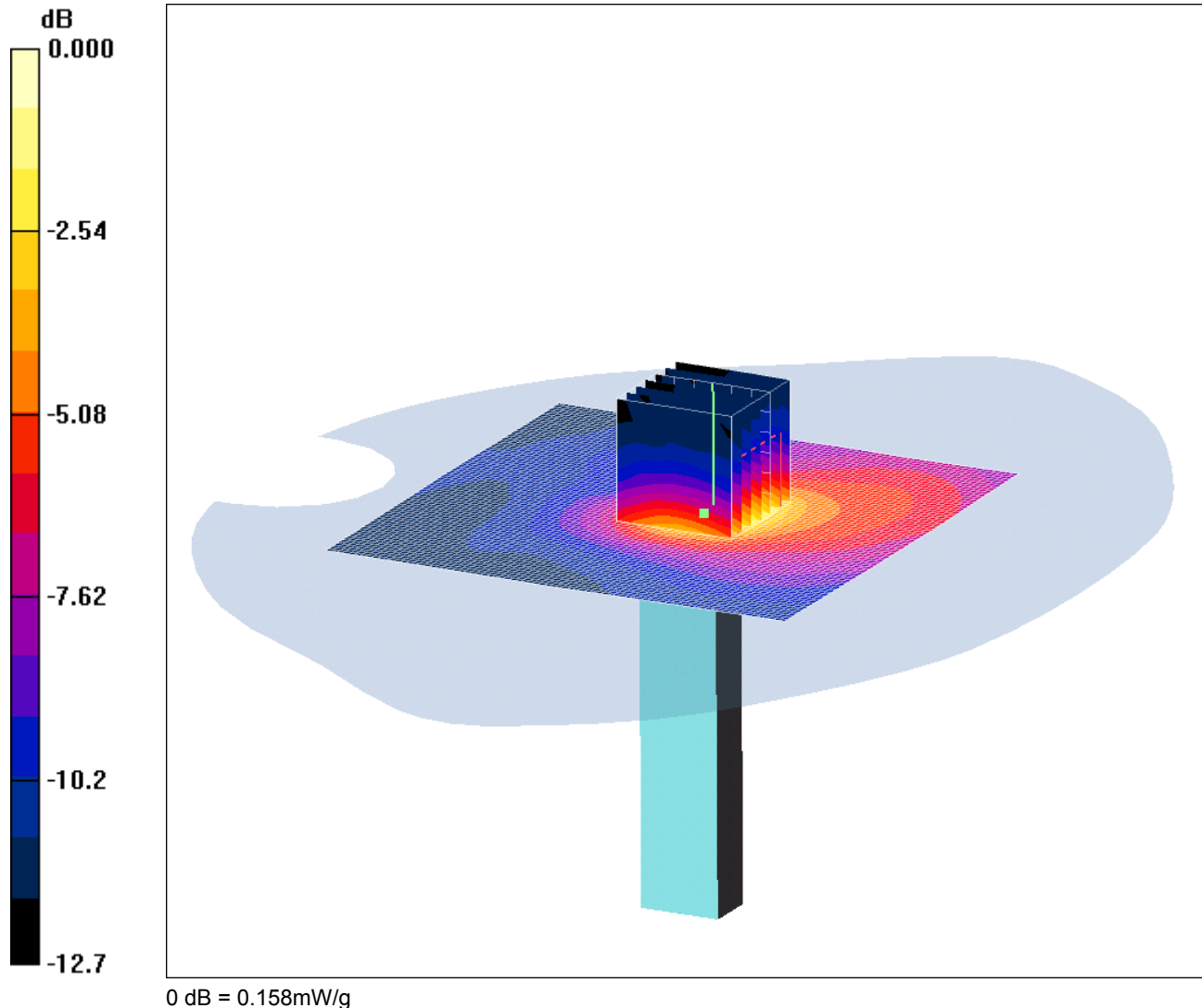
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 16/11/2009

SCN/76288JD01/087- Top of EUT Facing Phantom TD-CDMA 7.68 Mcps 16QAM CH13436 6 Time Slots

DUT: IPWireless; Type: ADT; Serial: ADWA928000816



Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2684.6 MHz; Duty Cycle: 1:2.5
 Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2684.6$ MHz; $\sigma = 2.18$ mho/m; $\epsilon_r = 50$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.73, 7.73, 7.73); Calibrated: 16/01/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Top of EUT Facing Phantom - High/Area Scan (81x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.166 mW/g

Top of EUT Facing Phantom - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.29 V/m; Power Drift = -0.006 dB

Peak SAR (extrapolated) = 0.301 W/kg

SAR(1 g) = 0.147 mW/g; SAR(10 g) = 0.071 mW/g

Maximum value of SAR (measured) = 0.158 mW/g

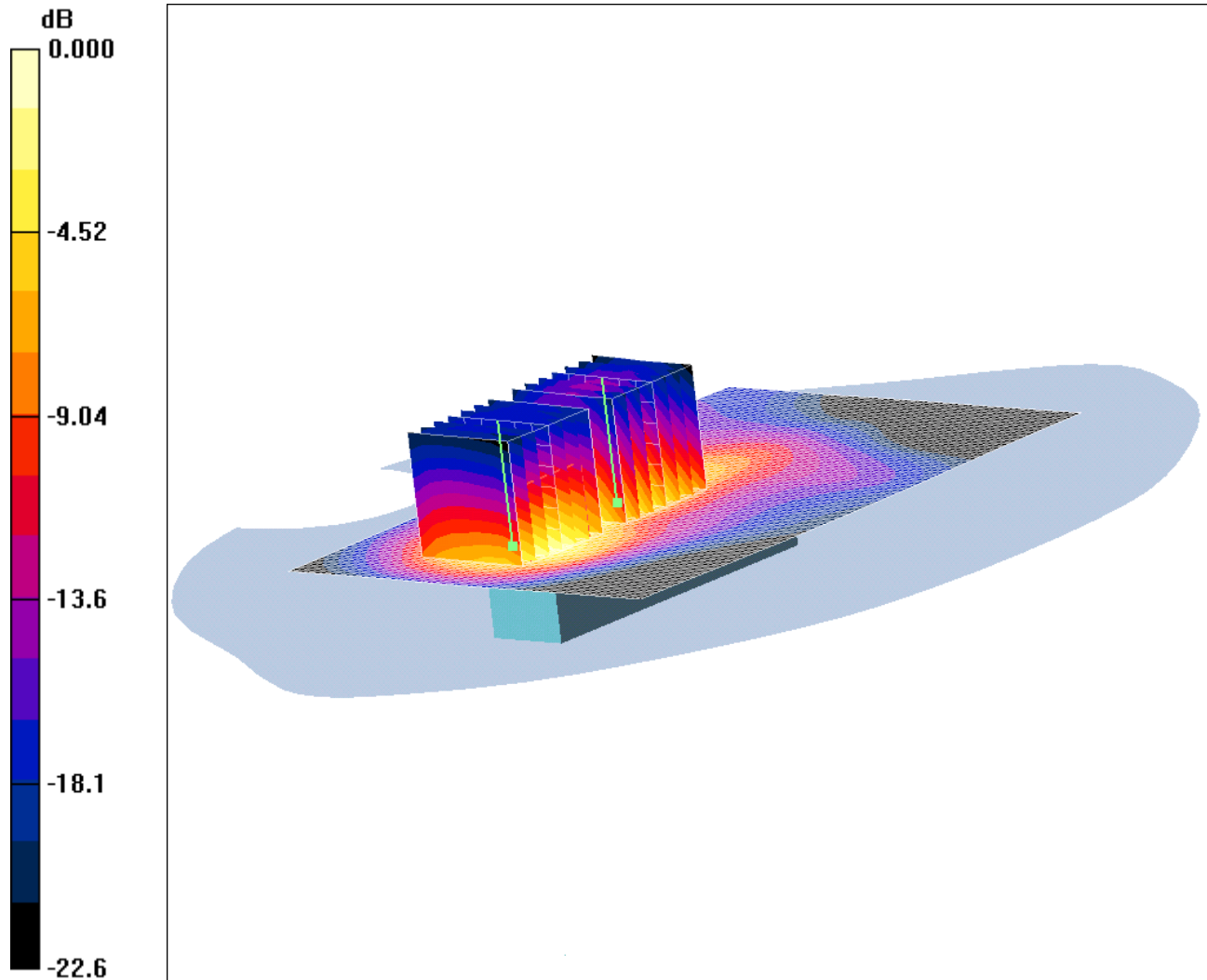
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 16/11/2009

SCN/76288JD01/088 - Horizontal - Up of EUT Facing Phantom TD-CDMA 7.68 Mcps 16QAM CH12507 6 Time Slots

DUT: IPWireless; Type: ADT; Serial: ADWA928000816



Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2501.4 MHz; Duty Cycle: 1:1

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2501.4$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 50.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(8.06, 8.06, 8.06); Calibrated: 26/06/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Horizontal Down of EUT Facing Phantom - Low/Area Scan (71x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.892 mW/g

Horizontal Down of EUT Facing Phantom - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.70 V/m; Power Drift = 0.356 dB; Peak SAR (extrapolated) = 1.42 W/kg

SAR(1 g) = 0.784 mW/g; SAR(10 g) = 0.374 mW/g; Maximum value of SAR (measured) = 0.883 mW/g**Horizontal Down of EUT Facing Phantom - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.70 V/m; Power Drift = 0.356 dB; Peak SAR (extrapolated) = 1.51 W/kg

SAR(1 g) = 0.747 mW/g; SAR(10 g) = 0.361 mW/g; Maximum value of SAR (measured) = 0.827 mW/g

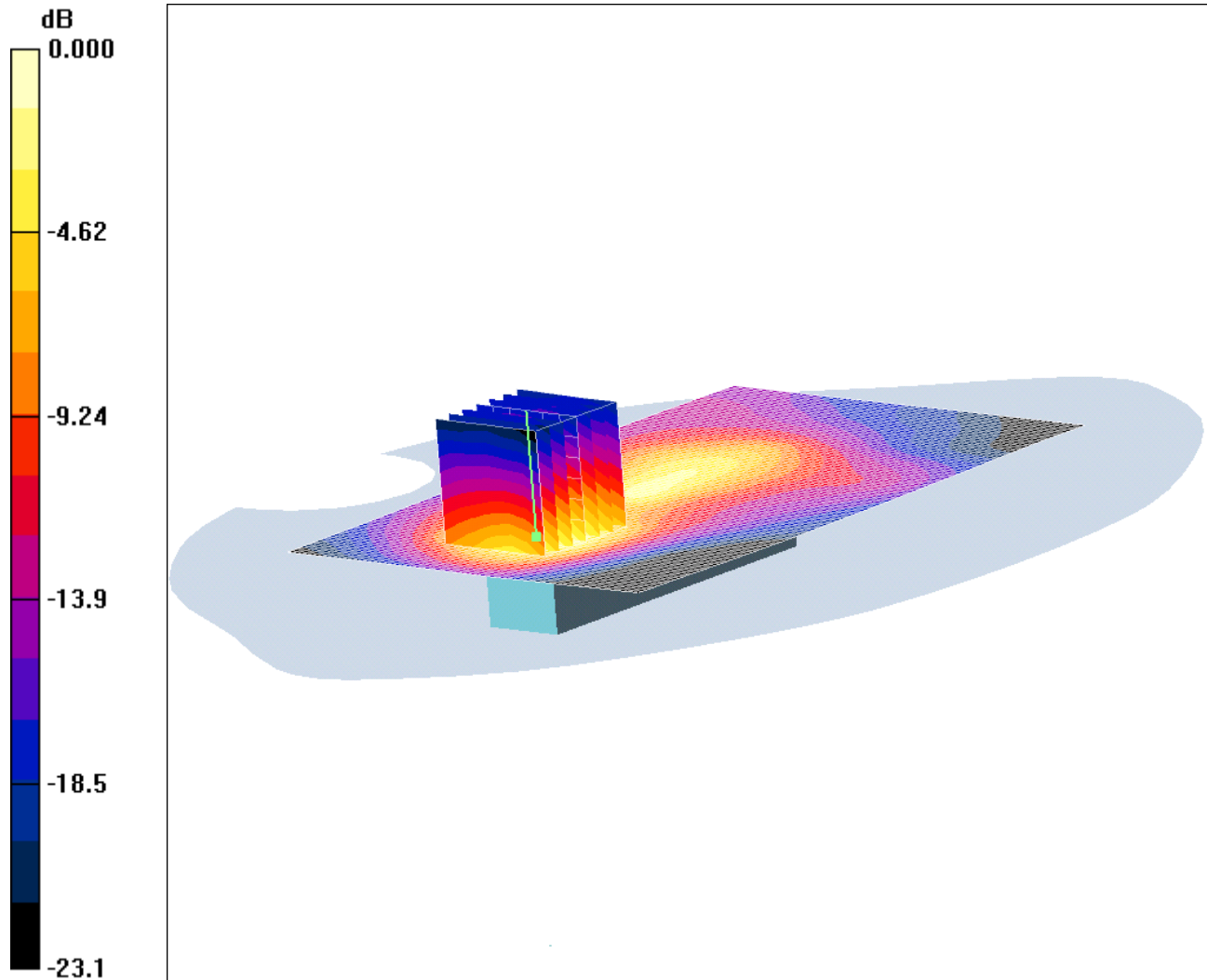
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 16/11/2009

SCN/76288JD01/089 - Horizontal - Up of EUT Facing Phantom TD-CDMA 7.68 Mcps 16QAM CH12965 6 Time Slots

DUT: IPWireless; Type: ADT; Serial: ADWA928000816



0 dB = 0.565mW/g

Communication System: TDCDMA - 3.84 Mcps / 5MHz Channel; Frequency: 2593 MHz; Duty Cycle: 1:1

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2593$ MHz; $\sigma = 2.06$ mho/m; $\epsilon_r = 50.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.73, 7.73, 7.73); Calibrated: 16/01/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Horizontal Down of EUT Facing Phantom - Middle/Area Scan (71x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.572 mW/g

Horizontal Down of EUT Facing Phantom - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.66 V/m; Power Drift = 0.180 dB

Peak SAR (extrapolated) = 0.993 W/kg

SAR(1 g) = 0.502 mW/g; SAR(10 g) = 0.243 mW/g

Maximum value of SAR (measured) = 0.565 mW/g

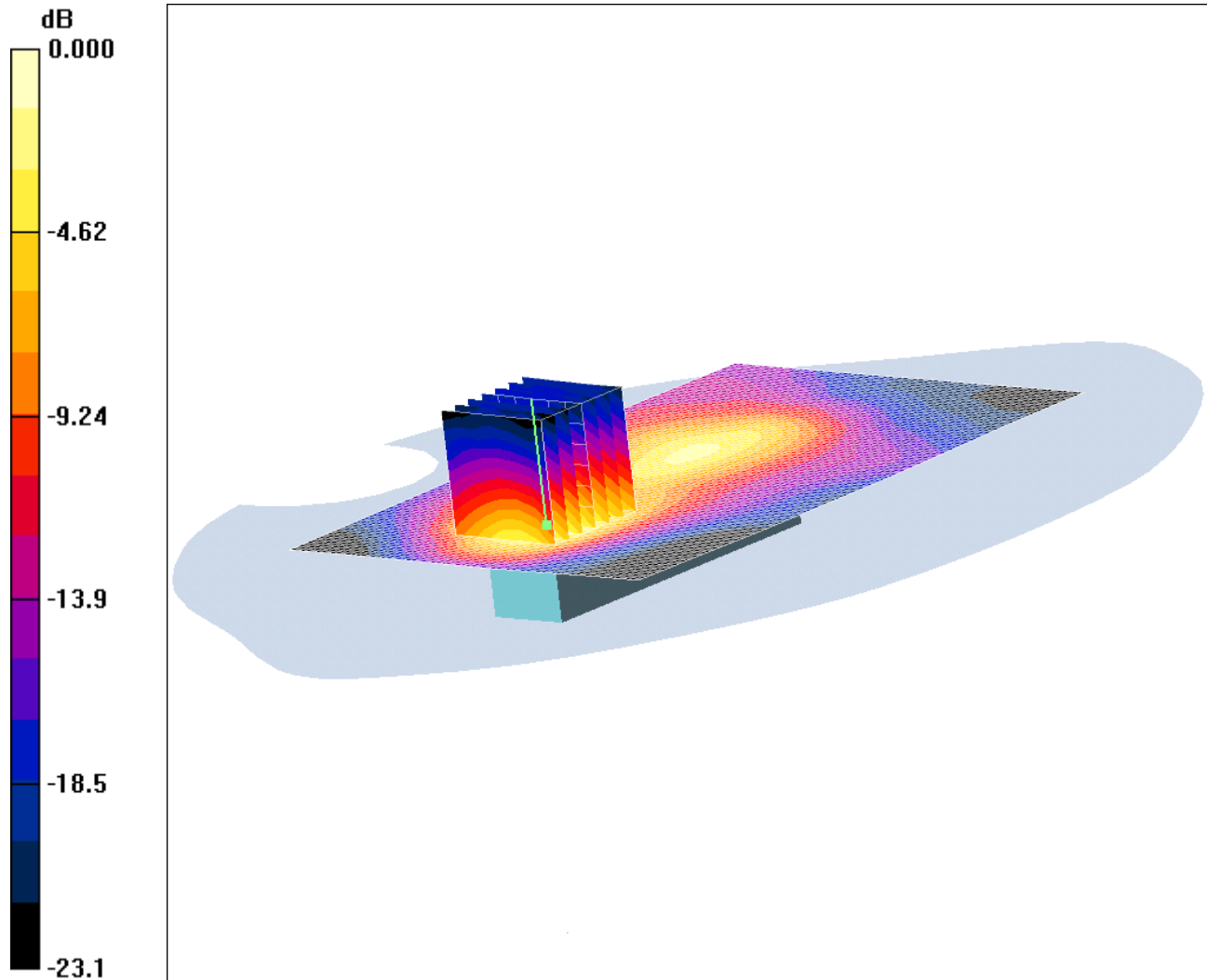
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 16/11/2009

SCN/76288JD01/090 - Horizontal - Up of EUT Facing Phantom TD-CDMA 7.68 Mcps 16QAM CH13420 6 Time Slots

DUT: IPWireless; Type: ADT; Serial: ADWA928000816



0 dB = 0.345mW/g

Communication System: TDCDMA - 3.84 Mcps / 5MHz Channel; Frequency: 2687.2 MHz; Duty Cycle: 1:1

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2687.2$ MHz; $\sigma = 2.18$ mho/m; $\epsilon_r = 50$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.73, 7.73, 7.73); Calibrated: 16/01/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Horizontal Down of EUT Facing Phantom - High/Area Scan (71x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.348 mW/g

Horizontal Down of EUT Facing Phantom - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.07 V/m; Power Drift = 0.008 dB

Peak SAR (extrapolated) = 0.622 W/kg

SAR(1 g) = 0.306 mW/g; SAR(10 g) = 0.147 mW/g

Maximum value of SAR (measured) = 0.345 mW/g

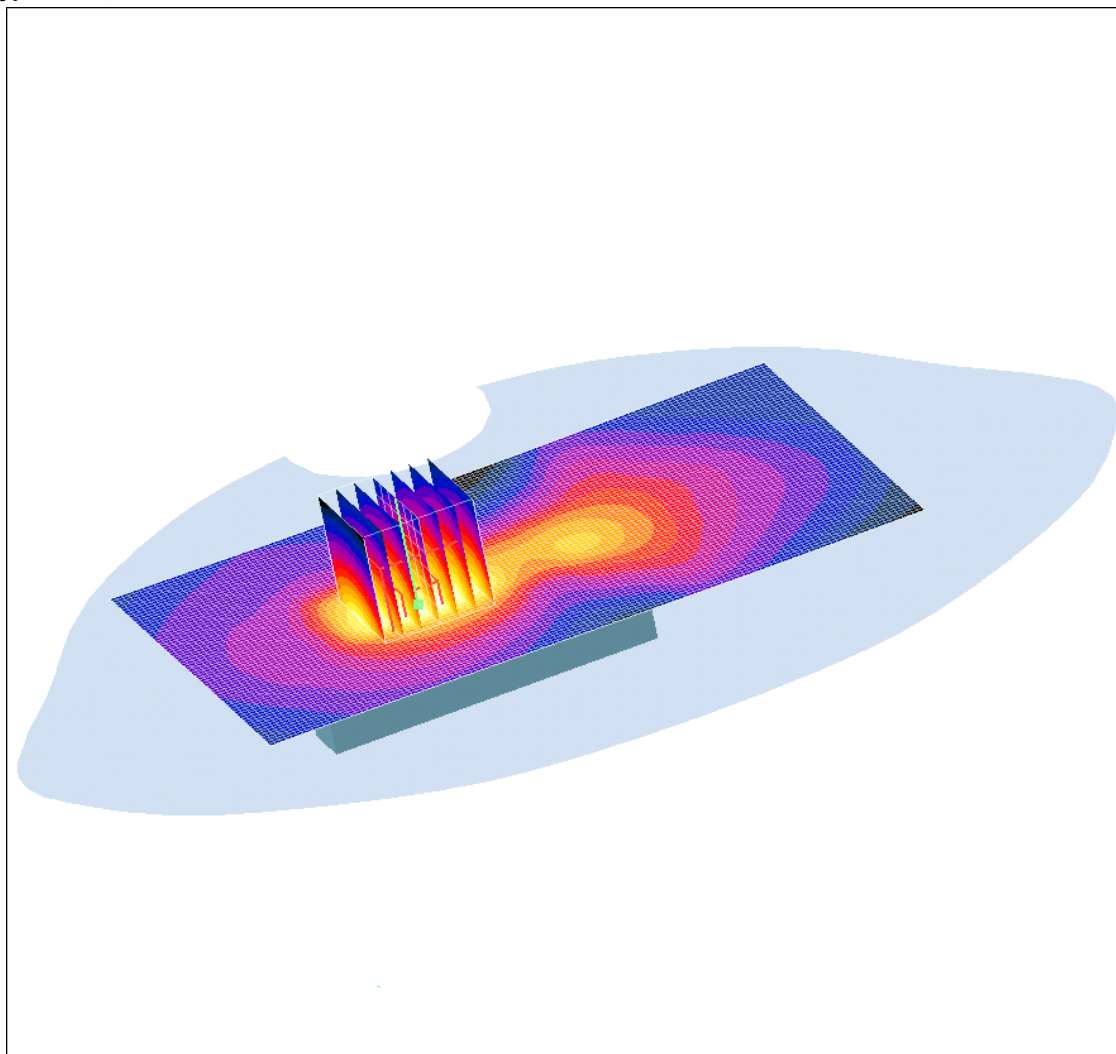
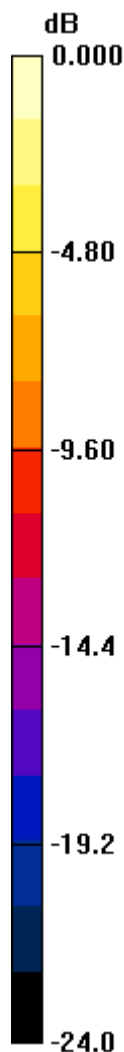
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 15/01/2010

SCN/76288JD01/091 - Vertical-Front of EUT Facing Phantom TD-CDMA 7_68 Mcps QPSK CH12507 6 Time Slot With Direct Connection

DUT: IPWireless; Type: ADT; Serial: ADWA928000816



0 dB = 1.41mW/g

Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2501.4 MHz; Duty Cycle: 1:2.5

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2501.4$ MHz; $\sigma = 1.95$ mho/m; $\epsilon_r = 50.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(8.06, 8.06, 8.06); Calibrated: 26/06/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Vertical Front of EUT Facing Phantom - Low With Direct Link/Area Scan (71x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.36 mW/g

Vertical Front of EUT Facing Phantom - Low With Direct Link/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.3 V/m; Power Drift = 0.154 dB

Peak SAR (extrapolated) = 2.62 W/kg

SAR(1 g) = 1.23 mW/g; SAR(10 g) = 0.551 mW/g

Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Maximum value of SAR (measured) = 1.41 mW/g

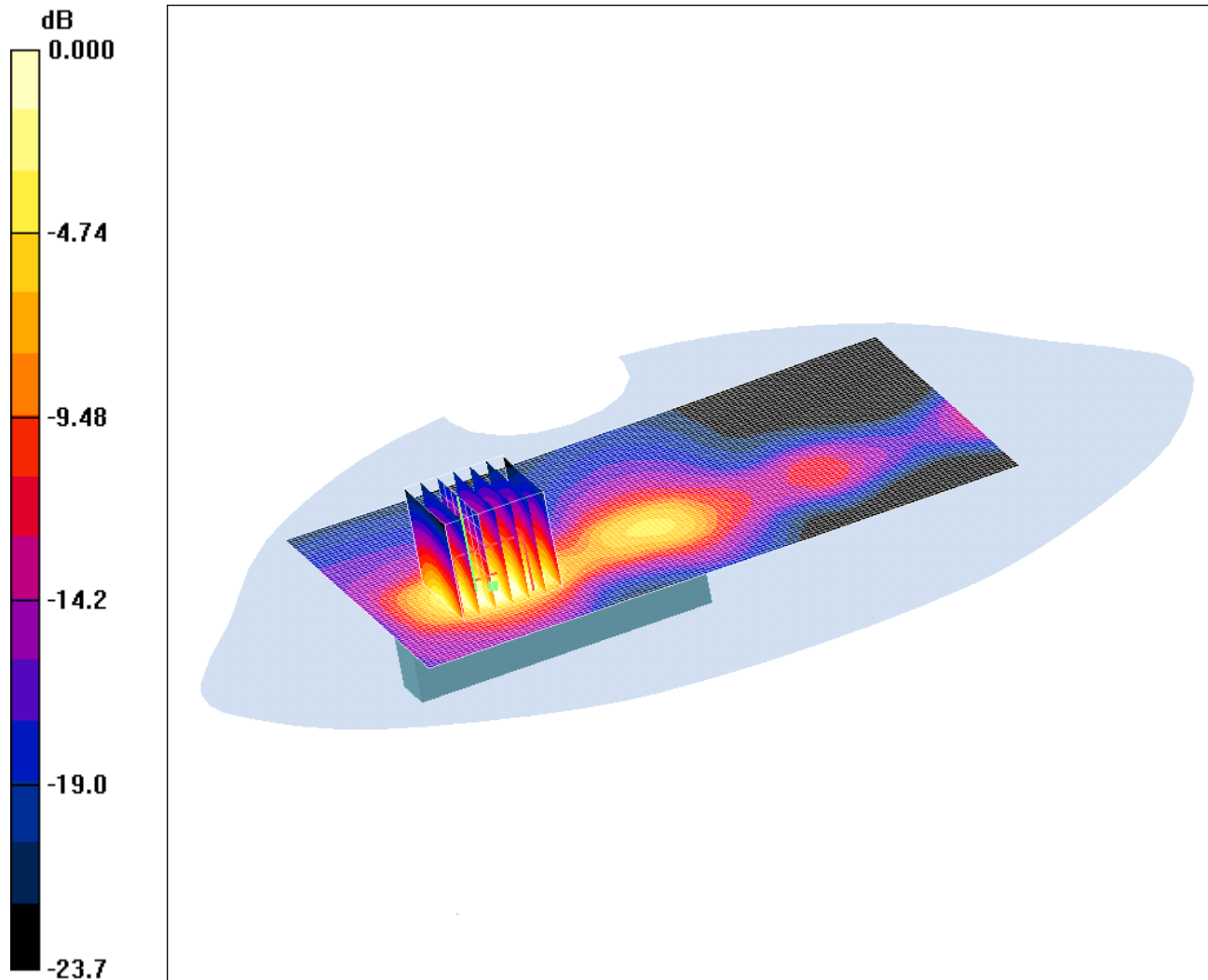
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 15/01/2010

SCN/76288JD01/091 - Vertical-Front of EUT Facing Phantom TD-CDMA 7_68 Mcps QPSK CH12507 6 Time Slot With Using Cable

DUT: IPWireless; Type: ADT; Serial: ADWA928000816



0 dB = 1.39mW/g

Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2501.4 MHz; Duty Cycle: 1:2.5

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2501.4$ MHz; $\sigma = 1.95$ mho/m; $\epsilon_r = 50.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(8.06, 8.06, 8.06); Calibrated: 26/06/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Vertical Front of EUT Facing Phantom - Low With Cable Ext/Area Scan (71x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.55 mW/g

Vertical Front of EUT Facing Phantom - Low With Cable Ext/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.7 V/m; Power Drift = -0.084 dB

Peak SAR (extrapolated) = 2.64 W/kg

SAR(1 g) = 1.23 mW/g; SAR(10 g) = 0.539 mW/g

Maximum value of SAR (measured) = 1.39 mW/g

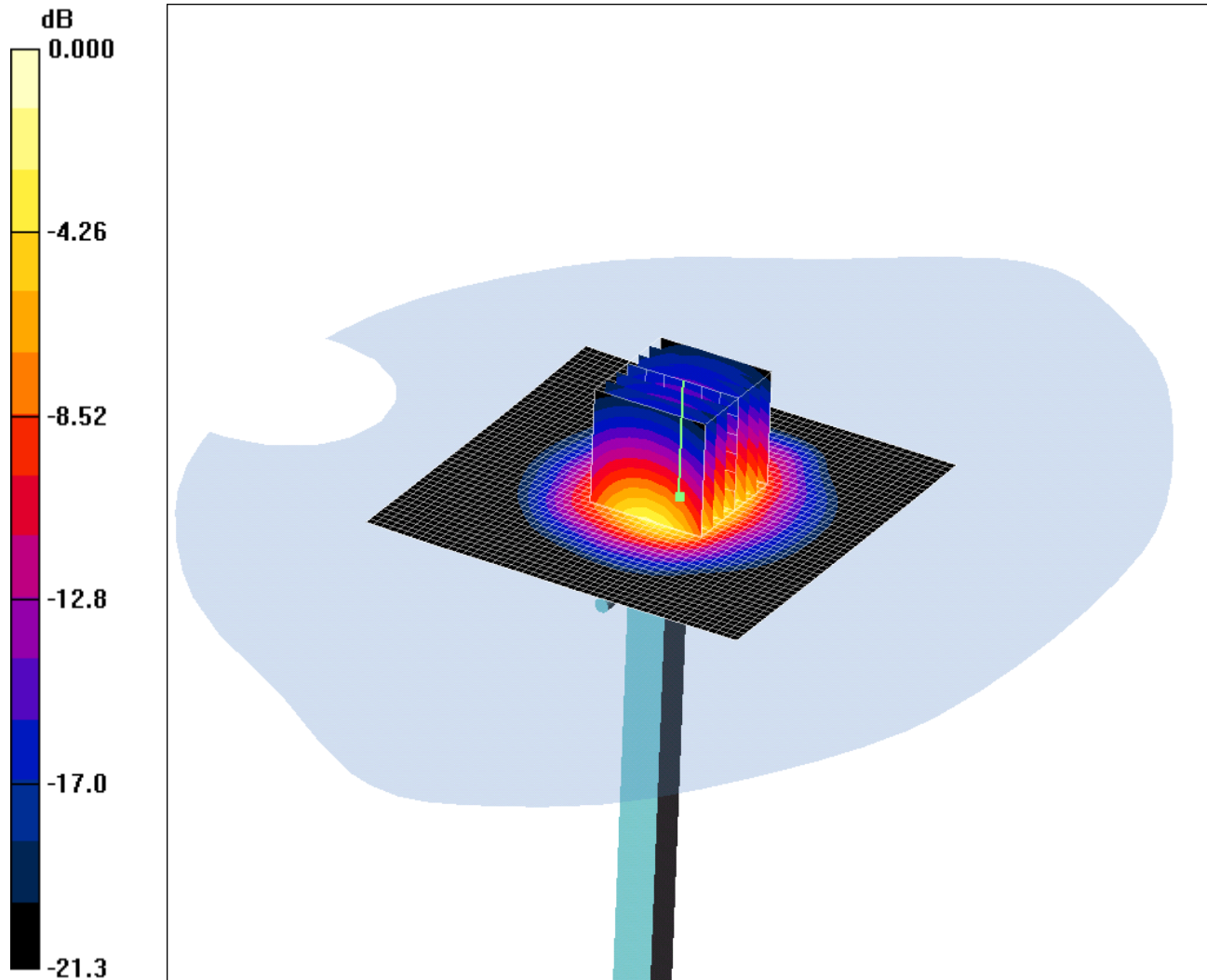
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 03/11/2009

SCN/76288JD01/091 - System Performance Check 2450MHz Body 03 11 09

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



0 dB = 15.2mW/g

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

Medium: 2450 MHz MSL Medium parameters used: $f = 2450$ MHz; $\sigma = 1.92$ mho/m; $\epsilon_r = 50.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(8.06, 8.06, 8.06); Calibrated: 26/06/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

d=10mm, Pin=250mW 2 2/Area Scan (51x51x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 17.7 mW/g

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

Reference Value = 83.5 V/m; Power Drift = 0.049 dB

Peak SAR (extrapolated) = 27.2 W/kg

SAR(1 g) = 13.3 mW/g; SAR(10 g) = 6.17 mW/g

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

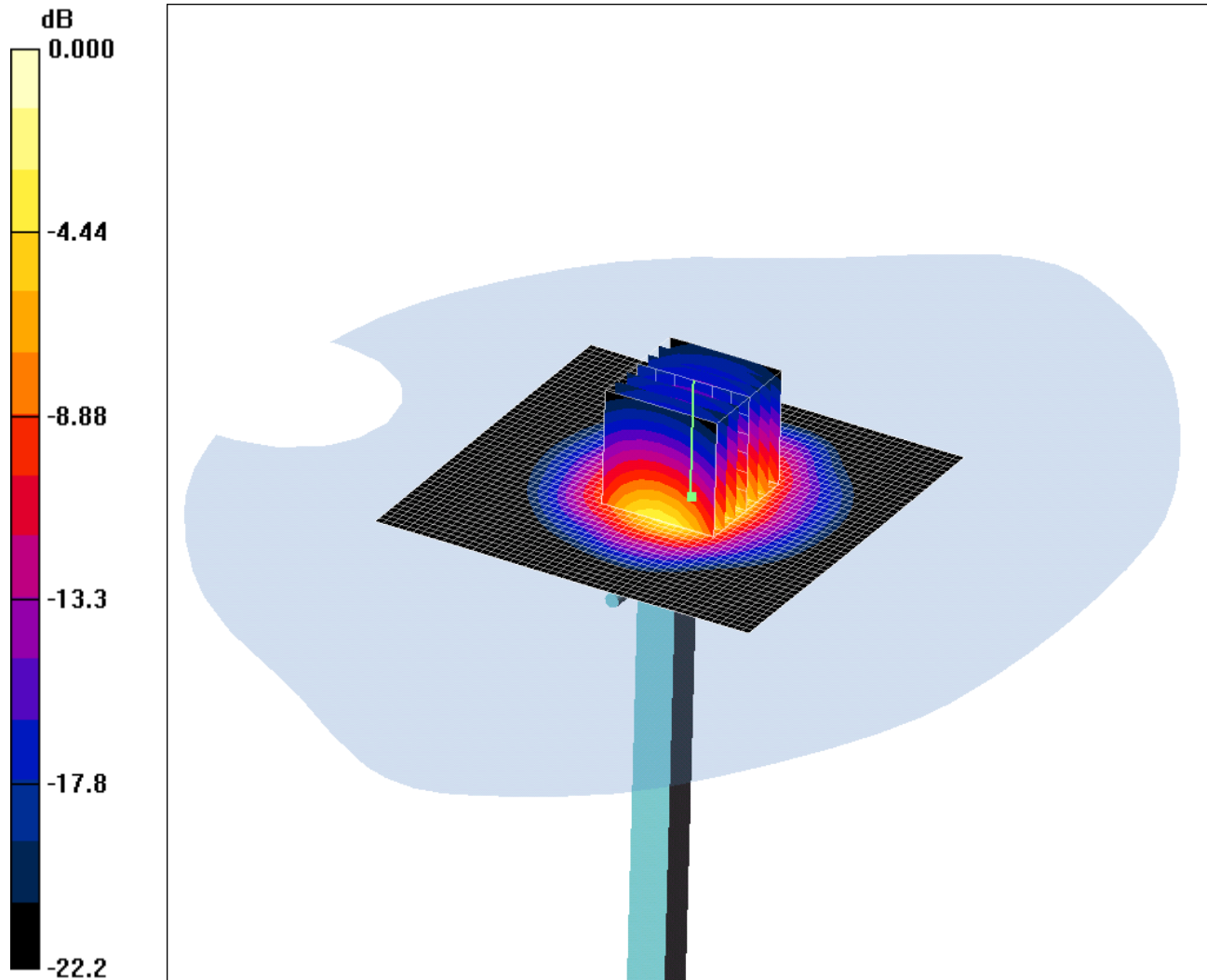
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 04/11/2009

SCN/76288JD01/092 - System Performance Check 2450MHz Body 04 11 09

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



0 dB = 15.5mW/g

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

Medium: 2450 MHz MSL Medium parameters used: $f = 2450$ MHz; $\sigma = 1.9$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(8.06, 8.06, 8.06); Calibrated: 26/06/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

d=10mm, Pin=250mW /Area Scan (51x51x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 17.8 mW/g

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

Reference Value = 82.0 V/m; Power Drift = 0.017 dB

Peak SAR (extrapolated) = 28.2 W/kg

SAR(1 g) = 13.4 mW/g; SAR(10 g) = 6.1 mW/g

Maximum value of SAR (measured) = 15.5 mW/g

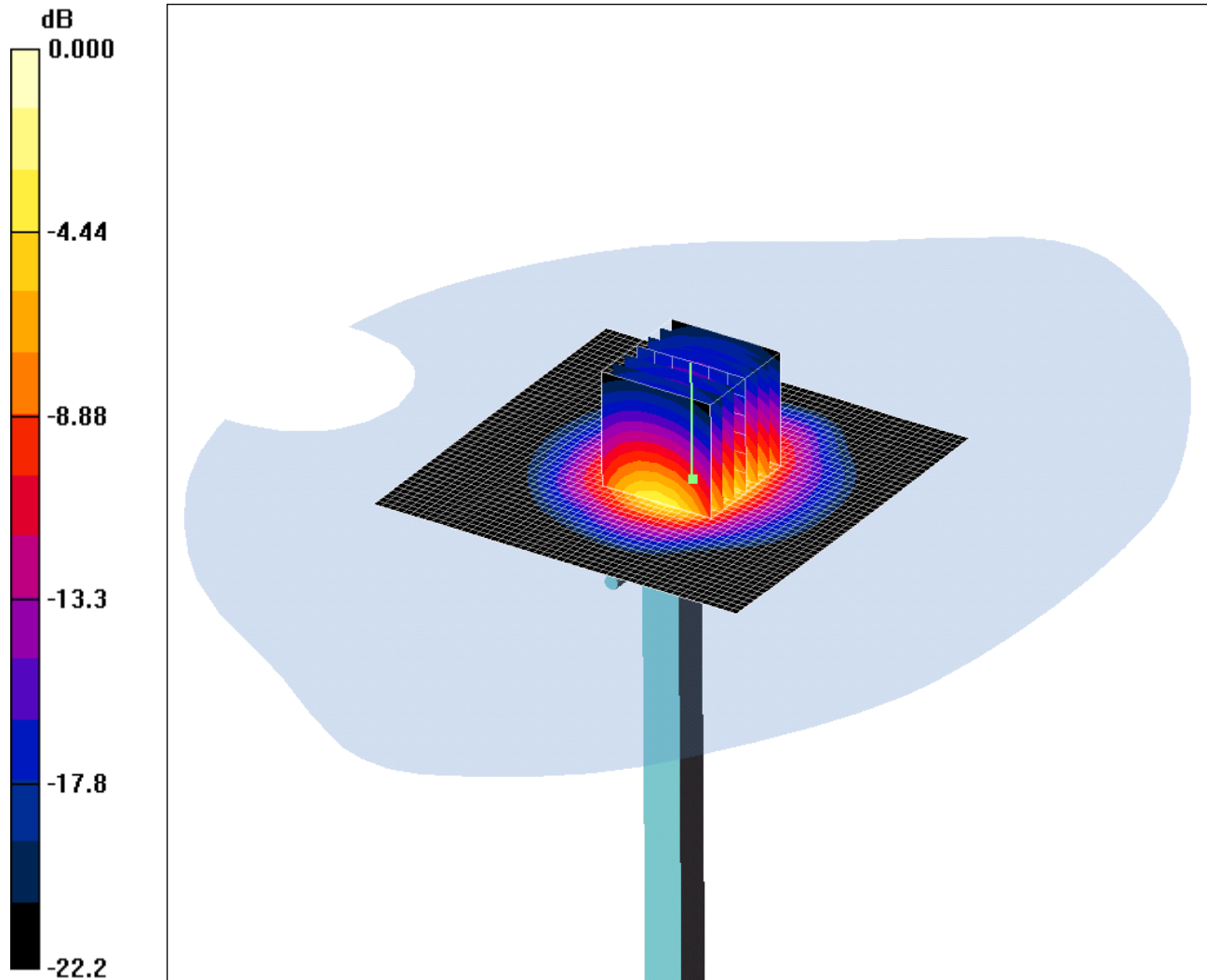
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 05/11/2009

SCN/76288JD01/093 - System Performance Check 2450MHz Body 05 11 09

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



0 dB = 15.5mW/g

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

Medium: 2450 MHz MSL Medium parameters used: $f = 2450$ MHz; $\sigma = 1.9$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(8.06, 8.06, 8.06); Calibrated: 26/06/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

d=10mm, Pin=250mW /Area Scan (51x51x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 18.2 mW/g

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

Reference Value = 81.9 V/m; Power Drift = 0.009 dB

Peak SAR (extrapolated) = 28.2 W/kg

SAR(1 g) = 13.5 mW/g; SAR(10 g) = 6.14 mW/g

Maximum value of SAR (measured) = 15.5 mW/g

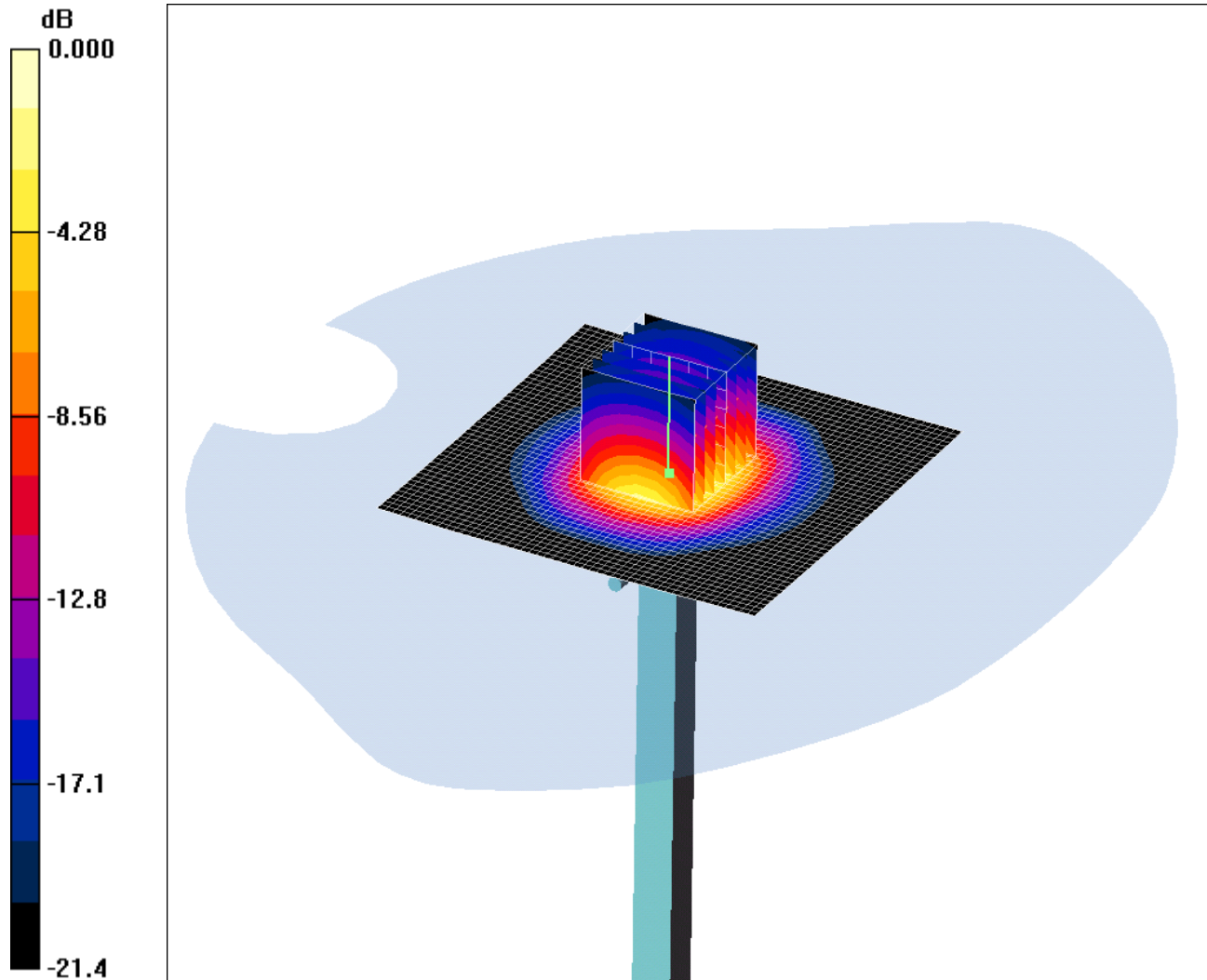
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 06/11/2009

SCN/76288JD01/094 - System Performance Check 2450MHz Body 06 11 09

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



0 dB = 14.7mW/g

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

Medium: 2450 MHz MSL Medium parameters used: $f = 2450$ MHz; $\sigma = 1.88$ mho/m; $\epsilon_r = 50.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(8.06, 8.06, 8.06); Calibrated: 26/06/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

d=10mm, Pin=250mW /Area Scan (51x51x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 20.4 mW/g

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

Reference Value = 89.6 V/m; Power Drift = 0.029 dB

Peak SAR (extrapolated) = 26.4 W/kg

SAR(1 g) = 13.1 mW/g; SAR(10 g) = 6.1 mW/g

Maximum value of SAR (measured) = 14.7 mW/g

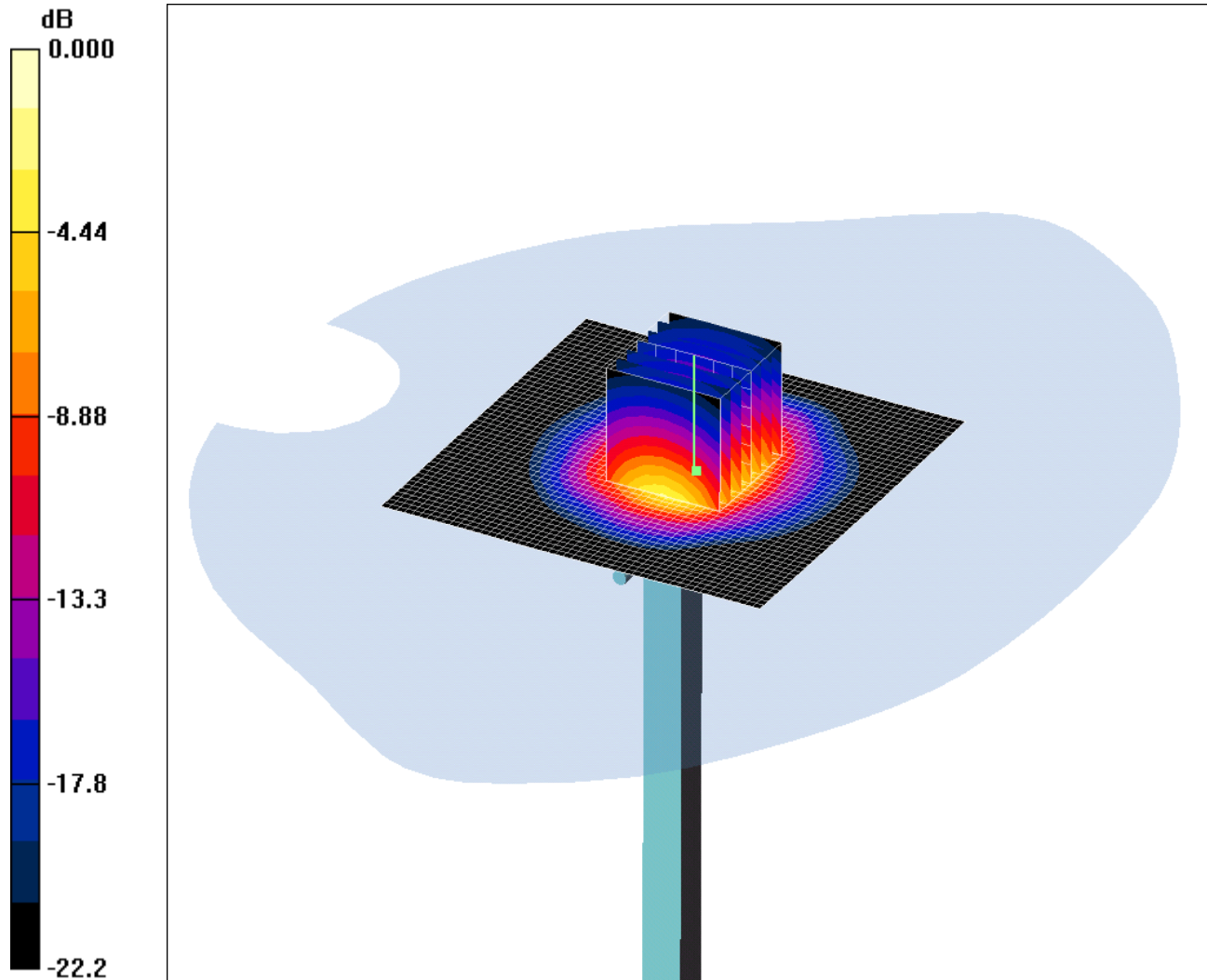
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 07/11/2009

SCN/76288JD01/095 - System Performance Check 2450MHz Body 07 11 09

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



0 dB = 15.3mW/g

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

Medium: 2450 MHz MSL Medium parameters used: $f = 2450$ MHz; $\sigma = 1.88$ mho/m; $\epsilon_r = 50.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(8.06, 8.06, 8.06); Calibrated: 26/06/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

d=10mm, Pin=250mW /Area Scan (51x51x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 18.3 mW/g

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

Reference Value = 82.2 V/m; Power Drift = 0.042 dB

Peak SAR (extrapolated) = 28.1 W/kg

SAR(1 g) = 13.4 mW/g; SAR(10 g) = 6.11 mW/g

Maximum value of SAR (measured) = 15.3 mW/g

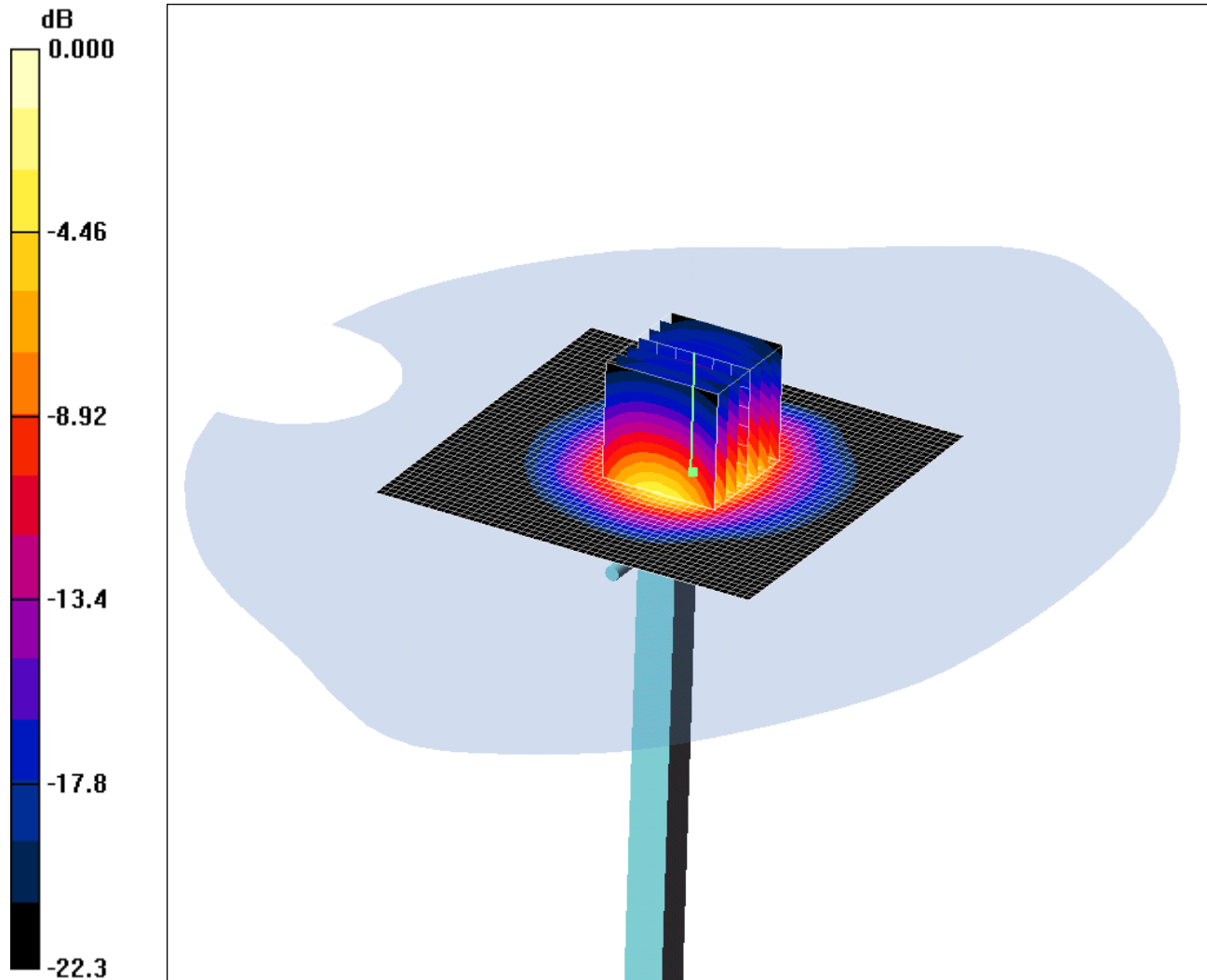
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 08/11/2009

SCN/76288JD01/096 - System Performance Check 2450MHz Body 08 11 09

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



0 dB = 15.0mW/g

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

Medium: 2450 MHz MSL Medium parameters used: $f = 2450$ MHz; $\sigma = 1.88$ mho/m; $\epsilon_r = 51$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(8.06, 8.06, 8.06); Calibrated: 26/06/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

d=10mm, Pin=250mW /Area Scan (51x51x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 18.1 mW/g

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

Reference Value = 81.0 V/m; Power Drift = 0.009 dB

Peak SAR (extrapolated) = 27.7 W/kg

SAR(1 g) = 13.2 mW/g; SAR(10 g) = 5.97 mW/g

Maximum value of SAR (measured) = 15.0 mW/g

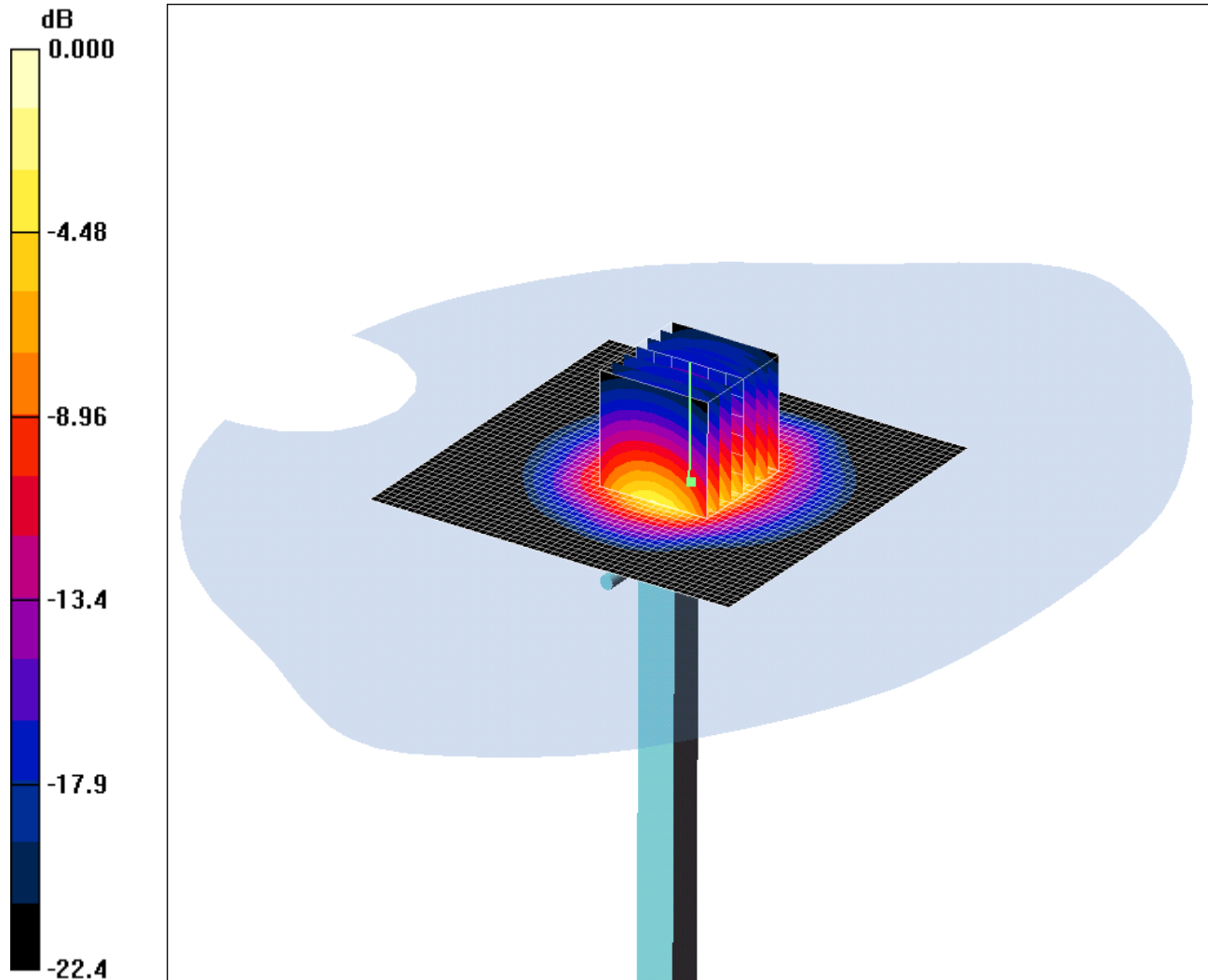
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 14/11/2009

SCN/76288JD01/097 - System Performance Check 2450MHz Body 14 11 09

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



0 dB = 14.9mW/g

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

Medium: 2450 MHz MSL Medium parameters used: $f = 2450$ MHz; $\sigma = 1.87$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(8.06, 8.06, 8.06); Calibrated: 26/06/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

d=10mm, Pin=250mW /Area Scan (51x51x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 17.8 mW/g

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

Reference Value = 81.3 V/m; Power Drift = 0.007 dB

Peak SAR (extrapolated) = 27.4 W/kg

SAR(1 g) = 13 mW/g; SAR(10 g) = 5.91 mW/g

Maximum value of SAR (measured) = 14.9 mW/g

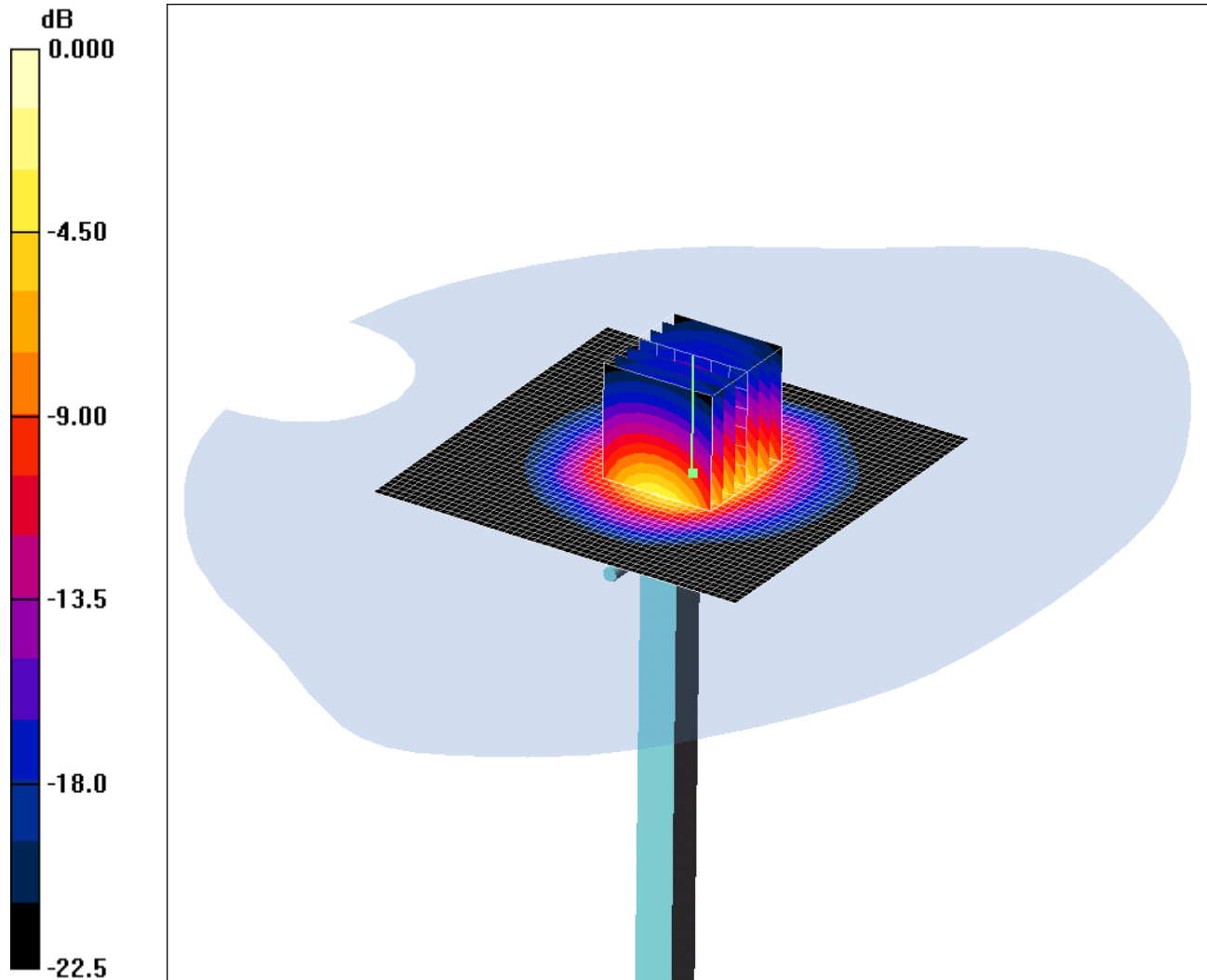
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 15/11/2009

SCN/76288JD01/098 - System Performance Check 2450MHz Body 15 11 09

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



0 dB = 15.1mW/g

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

Medium: 2450 MHz MSL Medium parameters used: $f = 2450$ MHz; $\sigma = 1.87$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(8.06, 8.06, 8.06); Calibrated: 26/06/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

d=10mm, Pin=250mW /Area Scan (51x51x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 17.8 mW/g

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

Reference Value = 81.6 V/m; Power Drift = -0.002 dB

Peak SAR (extrapolated) = 28.0 W/kg

SAR(1 g) = 13.2 mW/g; SAR(10 g) = 5.93 mW/g

Maximum value of SAR (measured) = 15.1 mW/g

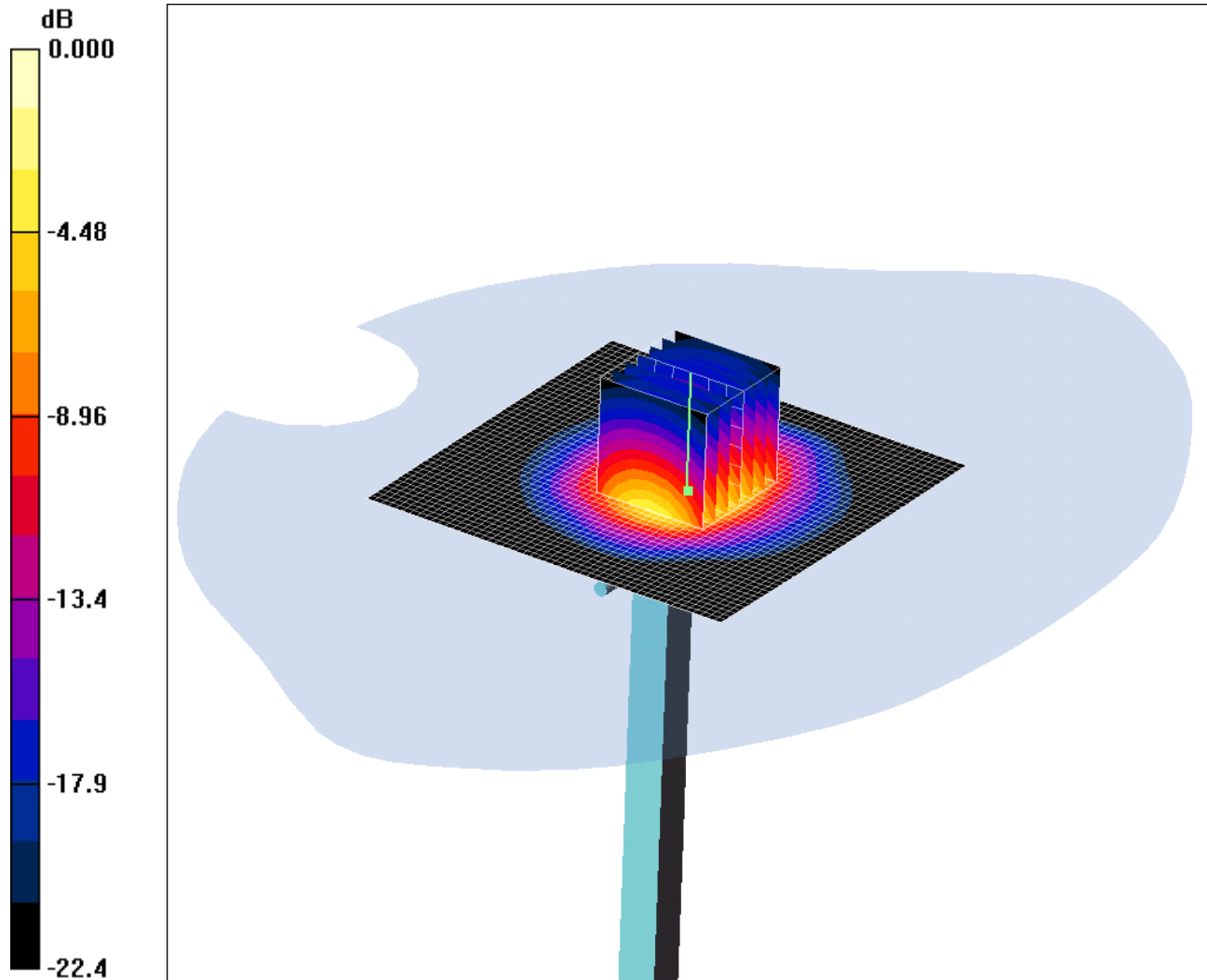
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 16/11/2009

SCN/76288JD01/099 - System Performance Check 2450MHz Body 15 11 09

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



0 dB = 15.2mW/g

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

Medium: 2450 MHz MSL Medium parameters used: $f = 2450$ MHz; $\sigma = 1.87$ mho/m; $\epsilon_r = 50.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(8.06, 8.06, 8.06); Calibrated: 26/06/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

d=10mm, Pin=250mW /Area Scan (51x51x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 17.6 mW/g

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

Reference Value = 81.4 V/m; Power Drift = 0.016 dB

Peak SAR (extrapolated) = 27.9 W/kg

SAR(1 g) = 13.2 mW/g; SAR(10 g) = 5.95 mW/g

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

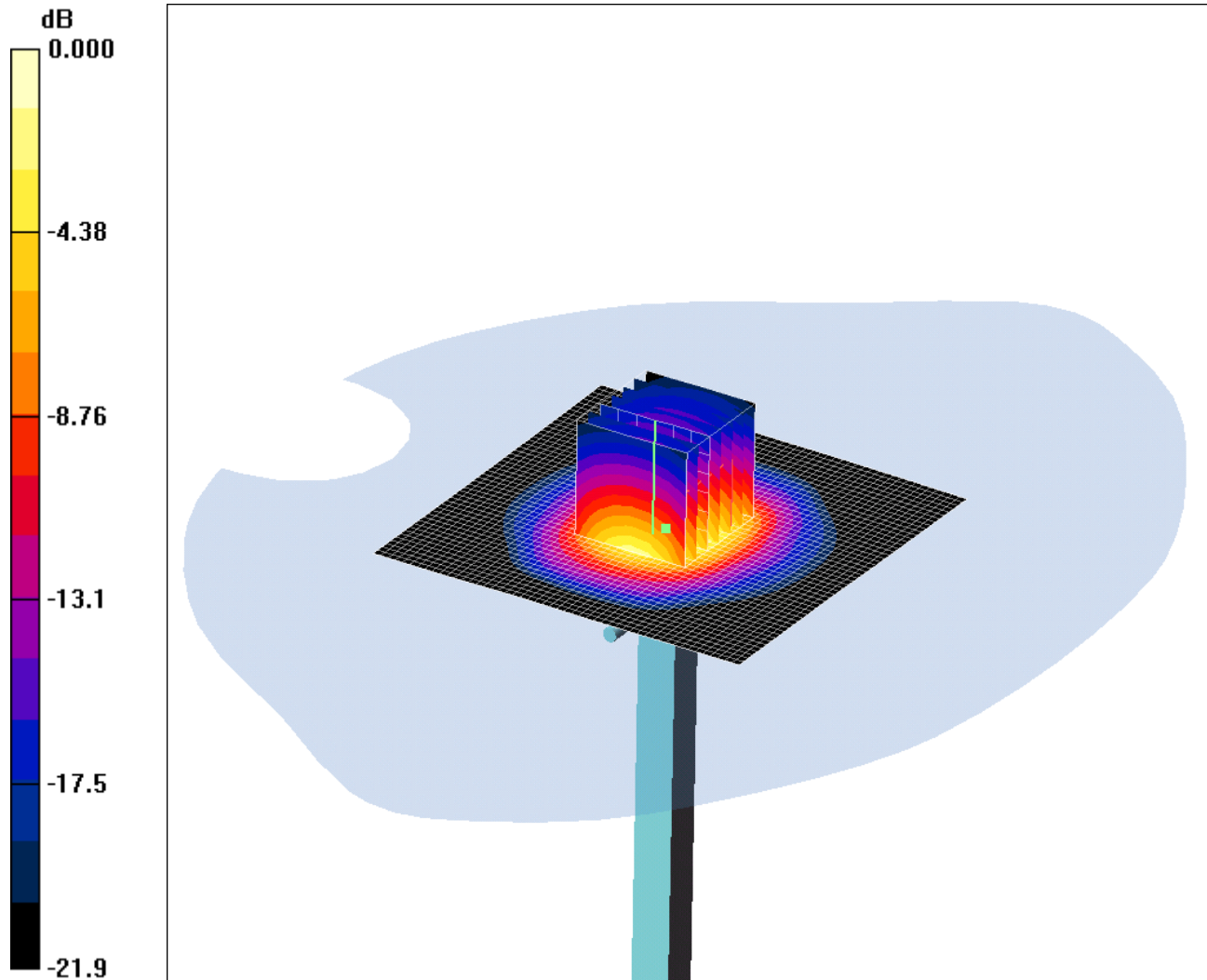
Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date 15/01/2010

SCN/76288JD01/099 - System Performance Check 2450MHz Body 15 01 10

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



0 dB = 15.2mW/g

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

Medium: 2450 MHz MSL Medium parameters used: $f = 2450$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 50.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(8.06, 8.06, 8.06); Calibrated: 26/06/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 30/04/2009

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

d=10mm, Pin=250mW /Area Scan (51x51x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 19.6 mW/g

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

Reference Value = 89.9 V/m; Power Drift = 0.005 dB

Peak SAR (extrapolated) = 27.8 W/kg

SAR(1 g) = 13.6 mW/g; SAR(10 g) = 6.31 mW/g

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

Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Appendix 4. Photographs

This appendix contains the following photographs:

Photo Reference Number	Title
PHT/76288JD01/001	Test configuration for the measurement of Specific Absorption Rate (SAR)
PHT/76288JD01/002	Top or Tip of EUT Facing Phantom
PHT/76288JD01/003	Horizontal-Up of EUT Facing Phantom Direct Connection
PHT/76288JD01/004	Horizontal-Down of EUT Facing Phantom
PHT/76288JD01/005	Vertical-Front of EUT Facing Phantom
PHT/76288JD01/006	Vertical-Back of EUT Facing Phantom
PHT/76288JD01/007	Vertical-Front of EUT Facing Phantom Direct Connection
PHT/76288JD01/008	Top or Tip of EUT
PHT/76288JD01/009	Horizontal-Up of EUT
PHT/76288JD01/010	Horizontal-Down of EUT
PHT/76288JD01/011	Vertical-Front of EUT
PHT/76288JD01/012	Vertical-Back of EUT
PHT/76288JD01/013	USB Cable
PHT/76288JD01/014	Toshiba Laptop
PHT/76288JD01/015	Base of Toshiba Laptop
PHT/76288JD01/016	Dell Latitude D620 Laptop
PHT/76288JD01/017	Base of Latitude D620 Laptop
PHT/76288JD01/018	2450 MHz Body Fluid Level

Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

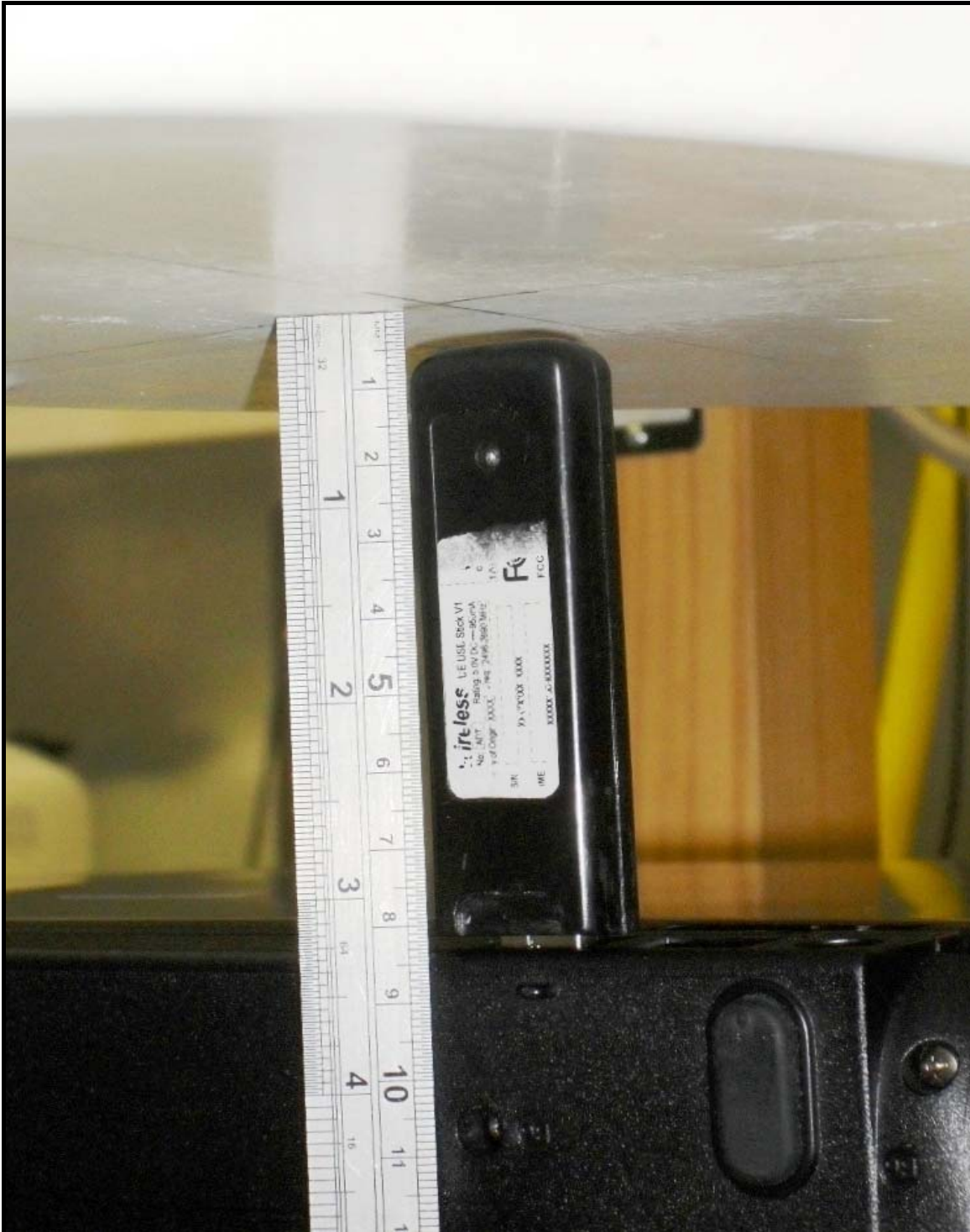
PHT/76288JD01/001: Test configuration for the measurement of Specific Absorption Rate (SAR)



Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

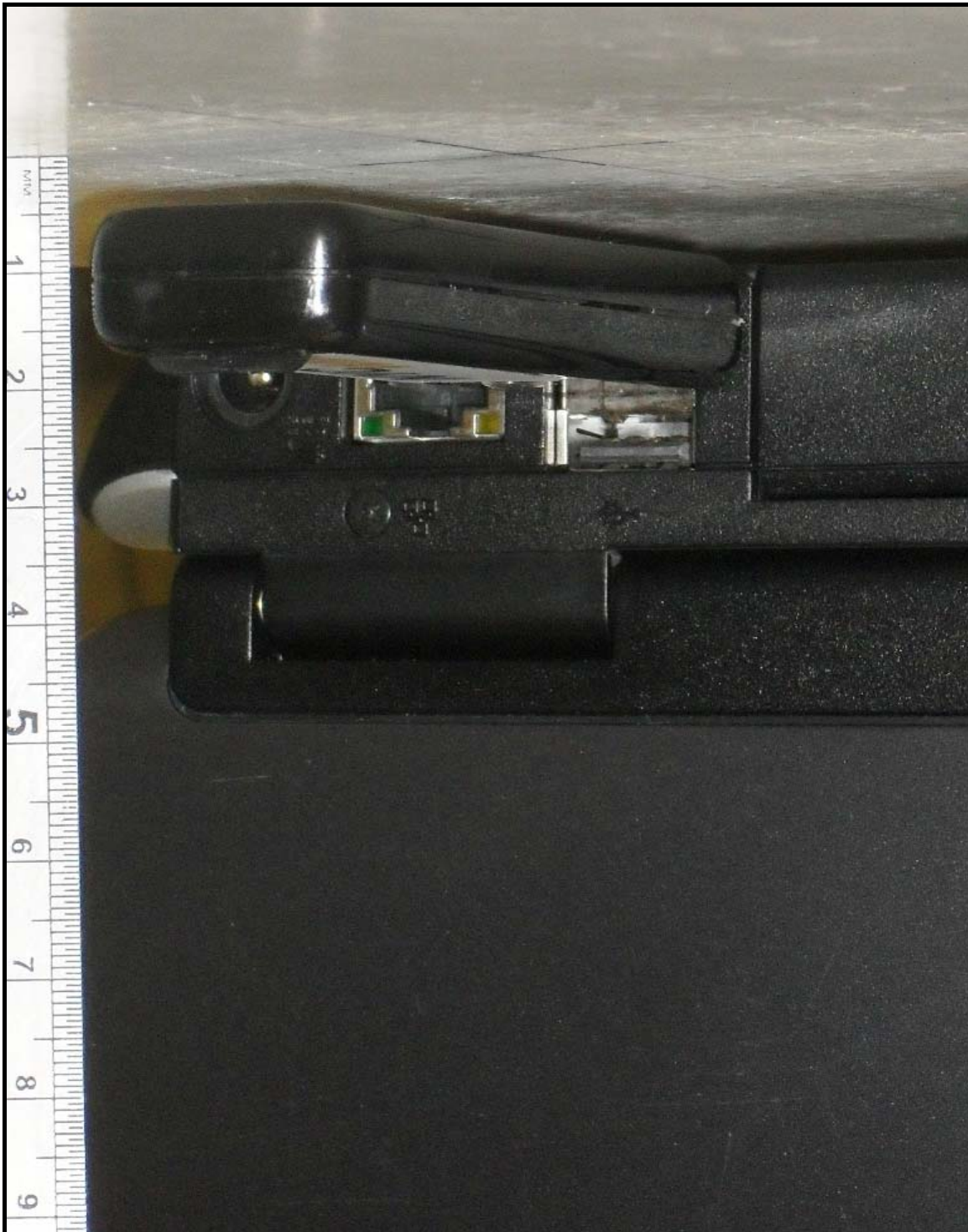
PHT/76288JD01/002: Top or Tip of EUT Facing Phantom



Test of: ADT USB Dongle

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PHT/76288JD01/003: Horizontal-Up of EUT Facing Phantom Direct Connection



Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

PHT/76288JD01/004: Horizontal-Down of EUT Facing Phantom



Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

PHT/76288JD01/005: Vertical-Front of EUT Facing Phantom



Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

PHT/76288JD01/006: Vertical-Back of EUT Facing Phantom



Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

PHT/76288JD01/007: Vertical-Front of EUT Facing Phantom with Direct Connection



Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

PHT/76288JD01/008: Top or Tip of EUT



Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

PHT/76288JD01/009: Horizontal-Up of EUT



Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

PHT/76288JD01/010: Horizontal-Down of EUT



Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

PHT/76288JD01/011: Vertical-Front of EUT



Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

PHT/76288JD01/012: Vertical-Back of EUT



Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

PHT/76288JD01/013: USB Cable



Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

PHT/76288JD01/014: Toshiba Laptop



Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

PHT/76288JD01/015: Base of Toshiba Laptop



Test of: ADT USB Dongle

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PHT/76288JD01/016: Dell Latitude D620 Laptop



Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

PHT/76288JD01/017: Base of Latitude D620 Laptop



Test of: ADT USB Dongle

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PHT/76288JD01/018: 2450 MHz Body Fluid Level



Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Appendix 5. Validation of System

Prior to the assessment, the system was verified in the flat region of the phantom.

A 2450 MHz dipole was used. A forward power of 250 mW was applied to the dipole and the system was verified to a tolerance of $\pm 5\%$ for the 2450 MHz dipole. The applicable verification (normalised to 1 Watt).

Date: 03/11/2009**Validation Dipole and Serial Number: D2450V2: SN: 725**

Simulant	Frequency (MHz)	Room Temperature	Liquid Temperature	Parameters	Target Value	Measured Value	Deviation (%)	Limit (%)
Body	2450	24.0 °C	24.0 °C	ϵ_r	52.70	50.83	-3.54	5.00
				σ	1.95	1.91	-1.92	5.00
				1g SAR	52.20	53.20	1.92	5.00
				10g SAR	24.70	24.68	-0.08	5.00

Date: 04/11/2009**Validation Dipole and Serial Number: D2450V2: SN: 725**

Simulant	Frequency (MHz)	Room Temperature	Liquid Temperature	Parameters	Target Value	Measured Value	Deviation (%)	Limit (%)
Body	2450	24.0 °C	24.0 °C	ϵ_r	52.70	50.70	-3.80	5.00
				σ	1.95	1.89	-2.84	5.00
				1g SAR	52.20	53.60	2.68	5.00
				10g SAR	24.70	24.40	-1.21	5.00

Date: 05/11/2009**Validation Dipole and Serial Number: D2450V2: SN: 725**

Simulant	Frequency (MHz)	Room Temperature	Liquid Temperature	Parameters	Target Value	Measured Value	Deviation (%)	Limit (%)
Body	2450	24.0 °C	24.0 °C	ϵ_r	52.70	50.70	-3.80	5.00
				σ	1.95	1.89	-2.84	5.00
				1g SAR	52.20	54.00	3.45	5.00
				10g SAR	24.70	24.56	-0.57	5.00

Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date: 06/11/2009**Validation Dipole and Serial Number: D2450V2: SN: 725**

Simulant	Frequency (MHz)	Room Temperature	Liquid Temperature	Parameters	Target Value	Measured Value	Deviation (%)	Limit (%)
Body	2450	24.0 °C	24.0 °C	ϵ_r	52.70	50.77	-3.66	5.00
				σ	1.95	1.88	-3.80	5.00
				1g SAR	52.20	52.40	0.38	5.00
				10g SAR	24.70	24.40	-1.21	5.00

Date: 07/11/2009**Validation Dipole and Serial Number: D2450V2:SN: 725**

Simulant	Frequency (MHz)	Room Temperature	Liquid Temperature	Parameters	Target Value	Measured Value	Deviation (%)	Limit (%)
Body	2450	24.0 °C	24.0 °C	ϵ_r	52.70	50.77	-3.66	5.00
				σ	1.95	1.88	-3.80	5.00
				1g SAR	52.20	53.60	2.68	5.00
				10g SAR	24.70	24.44	-1.05	5.00

Date: 08/11/2009**Validation Dipole and Serial Number: D2450V2: SN: 725**

Simulant	Frequency (MHz)	Room Temperature	Liquid Temperature	Parameters	Target Value	Measured Value	Deviation (%)	Limit (%)
Body	2450	24.0 °C	24.0 °C	ϵ_r	52.70	51.01	-3.20	5.00
				σ	1.95	1.88	-3.54	5.00
				1g SAR	52.20	52.80	1.15	5.00
				10g SAR	24.70	23.88	-3.32	5.00

Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Date: 14/11/2009**Validation Dipole and Serial Number: D2450V2: SN: 725**

Simulant	Frequency (MHz)	Room Temperature	Liquid Temperature	Parameters	Target Value	Measured Value	Deviation (%)	Limit (%)
Body	2450	24.0 °C	24.0 °C	ϵ_r	52.70	50.73	-3.74	5.00
				σ	1.95	1.87	-4.27	5.00
				1g SAR	52.20	52.00	-0.38	5.00
				10g SAR	24.70	23.64	-4.29	5.00

Date: 15/11/2009**Validation Dipole and Serial Number: D2450V2: SN: 725**

Simulant	Frequency (MHz)	Room Temperature	Liquid Temperature	Parameters	Target Value	Measured Value	Deviation (%)	Limit (%)
Body	2450	24.0 °C	24.0 °C	ϵ_r	52.70	50.73	-3.74	5.00
				σ	1.95	1.87	-4.27	5.00
				1g SAR	52.20	52.80	1.15	5.00
				10g SAR	24.70	23.72	-3.97	5.00

Date: 16/11/2009**Validation Dipole and Serial Number: D2450V2: SN: 725**

Simulant	Frequency (MHz)	Room Temperature	Liquid Temperature	Parameters	Target Value	Measured Value	Deviation (%)	Limit (%)
Body	2450	24.0 °C	24.0 °C	ϵ_r	52.70	50.89	-3.43	5.00
				σ	1.95	1.87	-4.12	5.00
				1g SAR	52.20	52.80	1.15	5.00
				10g SAR	24.70	23.80	-3.64	5.00

Date: 15/01/2010**Validation Dipole and Serial Number: D2450V2: SN: 725**

Simulant	Frequency (MHz)	Room Temperature	Liquid Temperature	Parameters	Target Value	Measured Value	Deviation (%)	Limit (%)
Body	2450	23.0 °C	24.0 °C	ϵ_r	52.70	50.82	-3.56	5.00
				σ	1.95	1.89	-2.96	5.00
				1g SAR	52.20	55.40	4.21	5.00
				10g SAR	24.70	25.24	2.17	5.00

Test of: ADT USB Dongle

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PAR and SAR Considerations

The SAR probe used for the measurements is calibrated with a sinusoidal CW signal. Since the DL:UL symbol ratio configuration allows a periodic uplink burst, the duty factor can be compensated by selecting the correct crest factor (CF) in this case $2.5 = (1/\text{duty cycle})$ as the duty cycle is 40% which is calculated from the following: $\{6\text{uplink timeslots} / 15 \text{ total time slots} = 0.4 \text{ or } 40\%\}$ for the SAR measurement.

If the duty factor were non-periodic, compensation is typically not possible and substantial SAR measurement error could be expected. The high peak-to-average power ratio (PAR) of TD-CDMA is expected to introduce additional SAR measurement errors because the SAR probe is not calibrated for this type of random noise-like signals with large amplitude variations within the burst. This SAR error is also expected to vary with both the average power and average PAR at each measurement point, temporally and spatially. In order to estimate the measurement error due to PAR issues, the worst case orientation that produced the highest SAR in each channel bandwidth and frequency band is measured at various power levels, from approximately 7.94 mW at 3 dB steps, until the maximum power level of 24.0 dBm or 251.19 mW average power is reached.

The plot below shows that SAR is linear to power only when the probe sensors are operating within the square-law region. As power continues to increase, the measured SAR error becomes increasingly larger. Since these are multiple points average SAR values measured with the probe positioned at the peak SAR distribution location, the values are within the range of the 1-g SAR required to determine compliance and given a more accurate trend. The results indicate that at approximately 125 mW SAR could be overestimated by 2% to 5%. The results also show that at approximately 250mW the SAR could be underestimated by -1% to -2%. Since this type of measurement error is dependent on the signal characteristics, the results demonstrates that the SAR underestimation is within the SAR repeatability tolerance and would not cause the maximum SAR measured to exceed the limit of 1.6 W/kg.

Results:

EUT Position	Phantom Configuration	Channel Number	SAR 1-g Level (W/kg)	Power (mW)	Note(s)
Horizontal-Down	Flat (SAM)	12494	1.500	251.19	1, 2
Horizontal-Down	Flat (SAM)	12494	0.702	125.89	1, 2
Horizontal-Down	Flat (SAM)	12494	0.349	63.10	1, 2
Horizontal-Down	Flat (SAM)	12494	0.164	31.62	1, 2
Horizontal-Down	Flat (SAM)	12494	0.079	15.85	1, 2
Horizontal-Down	Flat (SAM)	12494	0.042	7.94	1, 2
Horizontal-Down	Flat (SAM)	12494	0.000	0.00	1, 2*

Note(s):

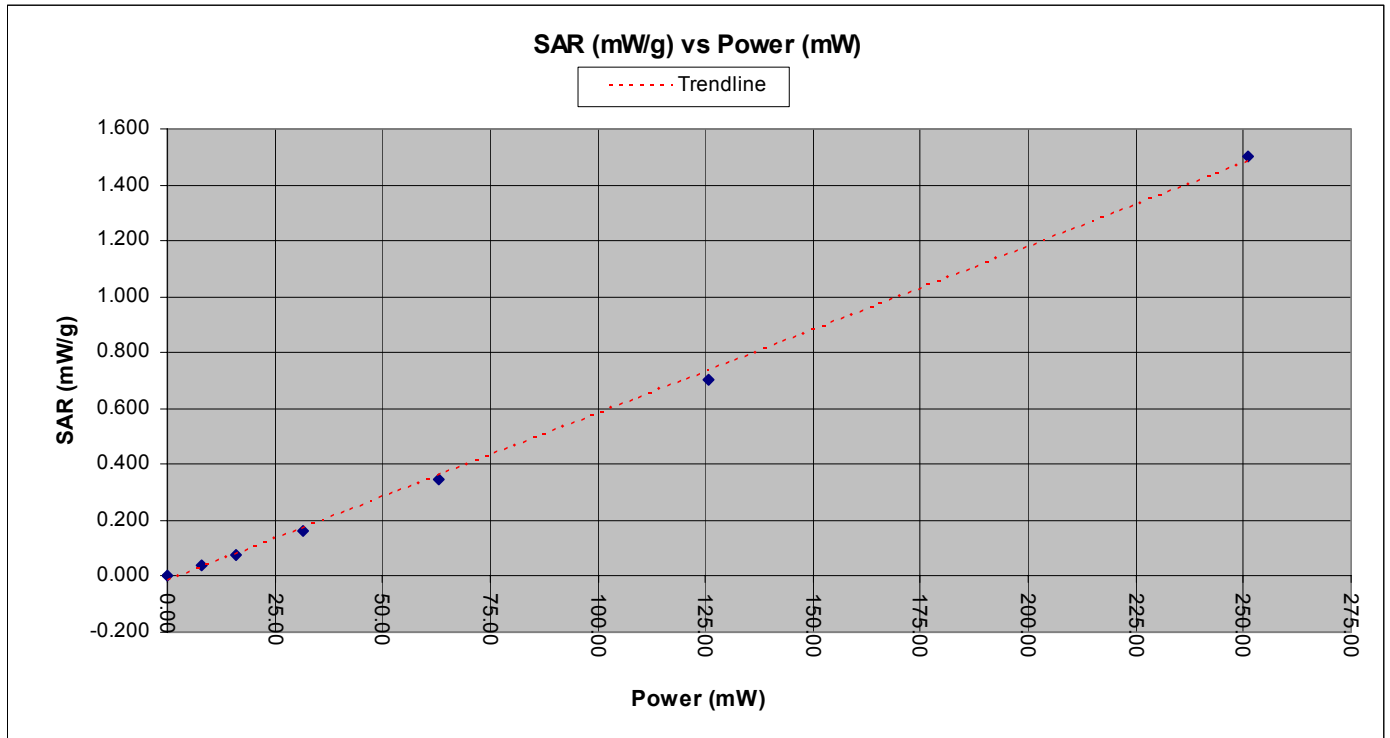
- SAR measurements were performed with the EUT at a separation distance of 5mm from the 'SAM' phantom flat section.
- 6 uplink timeslots QPSK

*assumption that when the output power is 0 mW the SAR is approximately 0 W/kg.

Test of: ADT USB Dongle

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Plot of SAR vs Power:



Test of: ADT USB Dongle

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Statement for 2450MHz Dipole Validation and Probe calibration

The SAR probe was calibrated to cover the entire operating frequency range of the dongle. The test frequencies are properly matched as this is a TD-CDMA band. The probe calibration for permittivity and conductivity is within +/-5%, were the probe calibrated centre frequency at 2450MHz has permittivity and conductivity of 52.7 and 1.95 respectively. And the probe calibrated centre frequency at 2450MHz has permittivity and conductivity of 52.5 and 2.16 respectively.

At the probe extreme frequencies the following are true:

2450 calibration - at 2350 MHz the permittivity and conductivity are 50.1 and 1.85 respectively. At 2550 MHz the permittivity and conductivity are 55.3 and 2.12 respectively. 2600 calibration - at 2500 MHz the permittivity and conductivity are 49.8 and 2.05 respectively. At 2700 MHz the permittivity and conductivity are 55.3 and 2.12 respectively.

The probe was calibrated at these parameters in order to cover the frequency range 2350 MHz to 2700 MHz.

Probe calibration 1:- 2450 MHz:

Conversion					
Name:	2450 (Body)			OK	
	X:	Y:	Z:	Cancel	
Conversion factor:	8.06	8.06	8.06		
Alpha:	0.25	0.25	0.25		
Delta:	1.02	1.02	1.02		
Frequency range:	2350	to	2550	MHz	Calibrated for: 2450 MHz
Permittivity range:	50.1	to	55.3		Calibrated for: 52.7
Conductivity range:	1.85	to	2.12	S/m	Calibrated for: 1.95 S/m

Probe calibration 2:- 2600 MHz

Conversion					
Name:	2600 (Body)			OK	
	X:	Y:	Z:	Cancel	
Conversion factor:	7.73	7.73	7.73		
Alpha:	0.27	0.27	0.27		
Delta:	1.15	1.15	1.15		
Frequency range:	2500	to	2700	MHz	Calibrated for: 2600 MHz
Permittivity range:	49.8	to	55.2		Calibrated for: 52.5
Conductivity range:	2.05	to	2.27	S/m	Calibrated for: 2.16 S/m

The target permittivity and conductivity at 2600 MHz is 52.5 and 2.16 respectively which are within the calibrated range of the probe parameter. The 2450 MHz permittivity and conductivity also covers the operating frequency range of the EUT.

The following parameters are declared in the 2600MHz and 2450 MHz probe calibration certificates on page 5 and page 8 respectively.

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f [MHz]	Validity [MHz] ^c	TSL	Permittivity	Conductivity	Alpha	Depth	ConvF Uncertainty
2600	± 50 / ± 100	Body	52.5 ± 5%	2.16 ± 5%	0.27	1.15	7.73 ± 11.0% (k=2)
3700	± 50 / ± 100	Body	51.0 ± 5%	3.55 ± 5%	0.32	1.30	6.78 ± 13.1% (k=2)
5200	± 50 / ± 100	Body	49.0 ± 5%	5.30 ± 5%	0.45	1.70	4.47 ± 13.1% (k=2)
5500	± 50 / ± 100	Body	48.6 ± 5%	5.65 ± 5%	0.45	1.70	3.97 ± 13.1% (k=2)
5800	± 50 / ± 100	Body	48.2 ± 5%	6.00 ± 5%	0.45	1.70	3.95 ± 13.1% (k=2)

^c The validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2). The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

f [MHz]	Validity [MHz] ^c	TSL	Permittivity	Conductivity	Alpha	Depth	ConvF Uncertainty
450	± 50 / ± 100	Head	43.5 ± 5%	0.87 ± 5%	0.23	1.00	10.49 ± 13.3% (k=2)
900	± 50 / ± 100	Head	41.5 ± 5%	0.97 ± 5%	0.48	0.72	9.76 ± 11.0% (k=2)
1750	± 50 / ± 100	Head	40.1 ± 5%	1.37 ± 5%	0.57	0.63	8.82 ± 11.0% (k=2)
1900	± 50 / ± 100	Head	40.0 ± 5%	1.40 ± 5%	0.53	0.65	8.58 ± 11.0% (k=2)
2150	± 50 / ± 101	Head	39.7 ± 5%	1.53 ± 5%	0.36	0.69	8.33 ± 11.0% (k=2)
2450	± 50 / ± 100	Head	39.2 ± 5%	1.80 ± 5%	0.36	0.75	7.77 ± 11.0% (k=2)
450	± 50 / ± 100	Body	56.7 ± 5%	0.94 ± 5%	0.30	0.51	11.32 ± 13.3% (k=2)
900	± 50 / ± 100	Body	55.0 ± 5%	1.05 ± 5%	0.45	0.75	9.99 ± 11.0% (k=2)
1750	± 50 / ± 100	Body	53.4 ± 5%	1.49 ± 5%	0.55	0.63	8.59 ± 11.0% (k=2)
1900	± 50 / ± 100	Body	53.3 ± 5%	1.52 ± 5%	0.48	0.68	8.23 ± 11.0% (k=2)
2150	± 50 / ± 100	Body	53.0 ± 5%	1.75 ± 5%	0.30	0.92	8.27 ± 11.0% (k=2)
2450	± 50 / ± 100	Body	52.7 ± 5%	1.95 ± 5%	0.25	1.02	8.06 ± 11.0% (k=2)

^c The validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2). The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

Test of: ADT USB Dongle

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The system manufacturer has carried out addition steps as detailed on page 4 of KDB450824. This is detailed in the calibration certificates. The measured SAR validation values in the report are all below 10% of the SAR target value given by the system manufacturer.

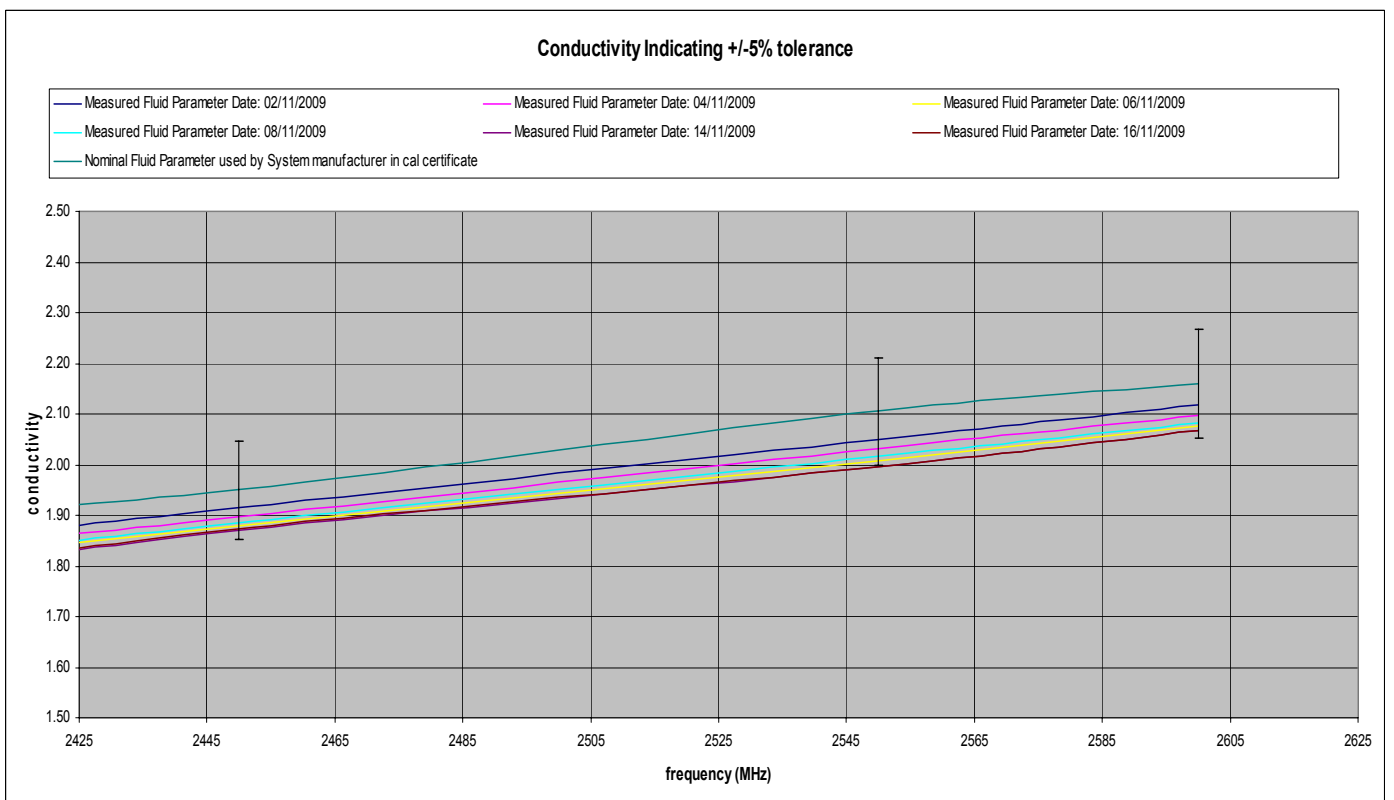
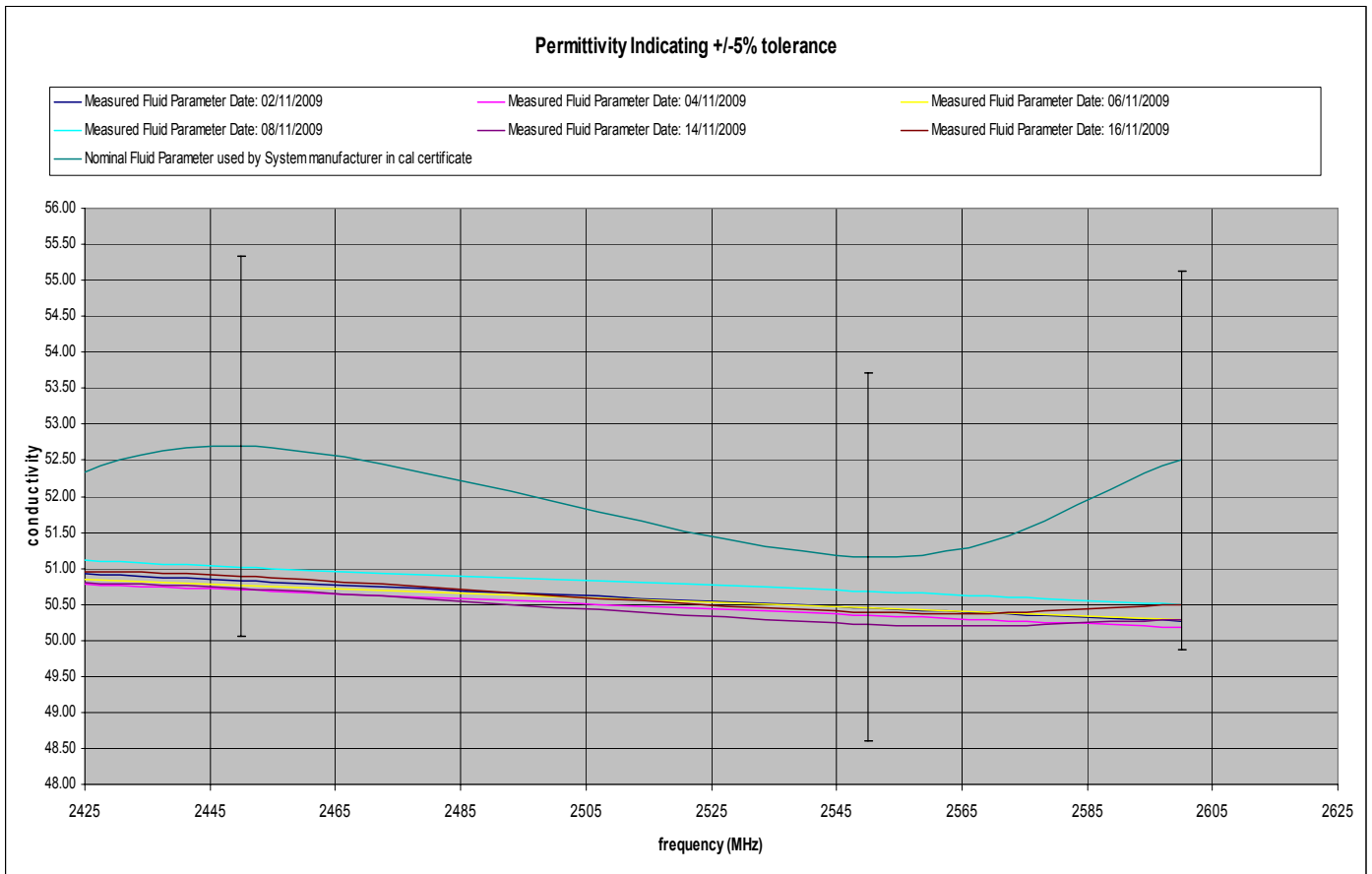
The measured fluid dielectric parameters for 2600 MHz, performed during test values were all within +/-5% of the 2600 MHz Target value.

At 2450 MHz were the probe was calibrated and validation performed, the tissue dielectric parameter measured for routine measurements at 2450 MHz was less than the target parameter for 2600 MHz ϵ and higher than the target parameter for 2600 MHz σ .

f (MHz)	Measured Fluid Parameter Date: 02/11/2009		Measured Fluid Parameter Date: 04/11/2009		Measured Fluid Parameter Date: 06/11/2009		Measured Fluid Parameter Date: 08/11/2009		Measured Fluid Parameter Date: 14/11/2009		Measured Fluid Parameter Date: 16/11/2009		Nominal Fluid Parameter used by System manufacturer in cal certificate	
	ϵ	σ	ϵ	σ	ϵ	σ	ϵ	σ	ϵ	σ	ϵ	Σ	ϵ	σ
2350	51.19	1.78	51.03	1.77	51.07	1.75	51.38	1.75	51.21	1.74	51.34	1.74	50.10	1.85
2400	51.03	1.85	50.85	1.83	50.94	1.81	51.23	1.82	50.86	1.79	51.01	1.80	51.40	1.90
2450	50.83	1.92	50.70	1.90	50.77	1.88	51.01	1.88	50.73	1.87	50.89	1.87	52.70	1.95
2550	50.46	2.05	50.34	2.03	50.46	2.01	50.68	2.02	50.22	2.00	50.40	2.00	51.15	2.11
2600	50.26	2.12	50.18	2.10	50.28	2.08	50.49	2.08	50.29	2.07	50.50	2.07	52.5	2.16

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Test of: ADT USB Dongle

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The probe conversion factor and its frequency response, with respect to the tissue dielectric media used during the probe calibration and routine measurements was examined to determine if the effective frequency interval is adequate for the intended measurements to satisfy protocol requirements. The frequency range at which the probe is calibrated for at 2450 MHz and 2600 MHz covers 2350 MHz to 2700 MHz and the dielectric parameters required for 2498 to 2687 MHz were all within the calibrated range of the probe dielectric parameters.

Probe calibration 1:- 2450 MHz:

Conversion					
Name:	2450 (Body)			OK	
	X:	Y:	Z:	Cancel	
Conversion factor:	8.06	8.06	8.06		
Alpha:	0.25	0.25	0.25		
Delta:	1.02	1.02	1.02		
Frequency range:	2350	to	2550	MHz	Calibrated for: 2450 MHz
Permittivity range:	50.1	to	55.3		Calibrated for: 52.7
Conductivity range:	1.85	to	2.12	S/m	Calibrated for: 1.95 S/m

Probe calibration 2:- 2600 MHz

Conversion					
Name:	2600 (Body)			OK	
	X:	Y:	Z:	Cancel	
Conversion factor:	7.73	7.73	7.73		
Alpha:	0.27	0.27	0.27		
Delta:	1.15	1.15	1.15		
Frequency range:	2500	to	2700	MHz	Calibrated for: 2600 MHz
Permittivity range:	49.8	to	55.2		Calibrated for: 52.5
Conductivity range:	2.05	to	2.27	S/m	Calibrated for: 2.16 S/m

The measurement within the required frequency interval satisfy an expanded probe calibration uncertainty ($k=2$) $\leq 15\%$ for all measurement conditions. Please refer to probe and dipole calibration certificates produce by the system manufacturer in section A.1.1.

Test of: ADT USB Dongle

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Appendix 6. Simulated Tissues

The body mixture consists of water and glycol. Visual inspection is made to ensure air bubbles are not trapped during the mixing process. The mixture is calibrated to obtain proper dielectric constant (permittivity) and conductivity of the tissue.

Ingredient	Frequency
	2450 MHz/2500 MHz/2700 MHz Body
De-Ionised Water	68.64
Diglycol Butyl Ether (DGBE)	31.37

Test of: ADT USB Dongle

To: OET Bulletin 65 Supplement C: (2001-01)

Appendix 7. DASY4 System Details

A.7.1. DASY4 SAR Measurement System

RFI Global Services Ltd, SAR measurement facility utilises the Dosimetric Assessment System (DASY™) manufactured by Schmid & Partner Engineering AG (SPEAG™) of Zurich, Switzerland. The DASY4 system is comprised of the robot controller, computer, near-field probe, probe alignment sensor, and the SAM phantom containing brain or muscle equivalent material. The robot is a six-axis industrial robot performing precise movements to position the probe to the location (points) of maximum electromagnetic field (EMF). A cell controller system contains the power supply, robot controller; teach pendant (Joystick), and remote control. This is used to drive the robot motors. The Staubli robot is connected to the cell controller to allow software manipulation of the robot. The data acquisition electronics (DAE) performs signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection etc. The DAE is connected to the Electro-optical coupler (EOC). The EOC performs the conversion from the optical into digital electric signal of the DAE and transfers data to the PC plug-in card. The DAE3 utilises a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16-bit AD-converter and a command decoder and control logic unit. Transmission to the PC-card is accomplished through an optical downlink for data and status information and an optical uplink for commands and clock lines. The mechanical probe-mounting device includes two different sensor systems for frontal and sidewise probe contacts. They are also used for mechanical surface detection and probe collision detection. The robot uses its own controller with a built in VME-bus computer.

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A.7.2. DASY4 SAR System Specifications**Robot System**

Positioner:	Stäubli Unimation Corp. Robot Model: RX90L
Repeatability:	0.025 mm
No. of Axis:	6
Serial Number:	F00/SD89A1/A/01
Reach:	1185 mm
Payload:	3.5 kg
Control Unit:	CS7
Programming Language:	V+

Data Acquisition Electronic (DAE) System

Serial Number:	DAE3 SN:450
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PC Controller

PC:	Dell Precision 340
Operating System:	Windows 2000
Data Card:	DASY4 Measurement Server
Serial Number:	1080

Data Converter

Features:	Signal Amplifier, multiplexer, A/D converted and control logic.
Software:	DASY4 Software
Connecting Lines:	Optical downlink for data and status info. Optical uplink for commands and clock.

PC Interface Card

Function:	24 bit (64 MHz) DSP for real time processing Link to DAE3 16 nit A/D converter for surface detection system serial link to robot direct emergency stop output for robot.
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DASY4 SAR System Specifications (Continued)**E-Field Probe**

Model:	EX3DV3
Serial No:	3508
Construction:	Triangular core
Frequency:	10 MHz to >6 GHz
Linearity:	±0.2 dB (30 MHz to 6 GHz)
Probe Length (mm):	330
Probe Diameter (mm):	12
Tip Length (mm):	20
Tip Diameter (mm):	2.5
Sensor X Offset (mm):	1
Sensor Y Offset (mm):	1
Sensor Z Offset (mm):	1

Phantom

Phantom:	SAM Phantom
Shell Material:	Fibreglass
Thickness:	2.0 ±0.1 mm
