APPENDIX A: SYSTEM CHECKING SCANS

Report No.: WT168006223 Page 1 of 7

SystemPerformanceCheck-D750 for Body

Date: 2016.11.10

DUT: Dipole 750MHz D750V3; Type: D750V3 SN:1103;

Communication System: CW; Communication System Band: D750 (750 MHz); Frequency: 750

MHz;Duty Cycle: 1:1

Medium parameters used: f = 750 MHz; $\sigma = 0.95$ mho/m; $\varepsilon_r = 56.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV4 SN3881; ConvF(9.66, 9.66, 9.66); Calibrated: 2015.11.26.;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn876; Calibrated: 2016.03.02.
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1504
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Body/Dipole750/Area Scan (61x131x1): Interpolated grid: dx=1.500 mm, dy=1.500

Reference Value = 56.45 V/m; Power Drift = -0.05 dB

Fast SAR: SAR(1 g) = 2.35 mW/g; SAR(10 g) = 1.31 mW/g

Maximum value of SAR (interpolated) = 2.67 W/kg

Body/Dipole750/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

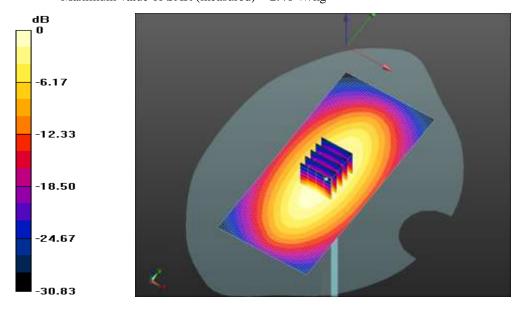
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Reference Value = 56.45 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 2.740 mW/g

SAR(1 g) = 2.31 mW/g; SAR(10 g) = 1.28 mW/g

Maximum value of SAR (measured) = 2.46 W/kg



0 dB = 2.47 W/kg = 6.53 dB W/kg

Report No.: WT168006223 Page 2 of 7

SystemPerformanceCheck-D835 for Body

Date: 2016.11.07

DUT: Dipole 835MHz D835V2; Type: D835V2 SN:4d141;

Communication System: CW; Communication System Band: D835 (835.0 MHz); Frequency: 835

MHz;Duty Cycle: 1:1

Medium parameters used: f = 835 MHz; $\sigma = 0.95$ mho/m; $\varepsilon_r = 53.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 SN3881; ConvF(9.75, 9.75, 9.75); Calibrated: 2016.07.28.;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn876; Calibrated: 2016.03.02.
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1504
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Body/Dipole835/Area Scan (61x131x1): Interpolated grid: dx=1.500 mm, dy=1.500

Reference Value = 50.61 V/m; Power Drift = 0.04 dB

Fast SAR: SAR(1 g) = 2.32 mW/g; SAR(10 g) = 1.39 mW/g

Maximum value of SAR (interpolated) = 2.62 W/kg

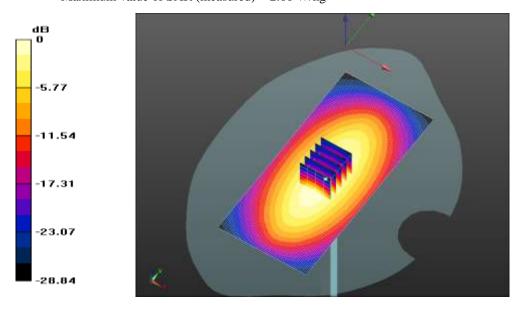
Body/Dipole835/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 50.61 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 3.682 mW/g

SAR(1 g) = 2.3 mW/g; SAR(10 g) = 1.37 mW/g

Maximum value of SAR (measured) = 2.61 W/kg



0 dB = 2.62 W/kg = 8.36 dB W/kg

Report No.: WT168006223 Page 3 of 7

SystemPerformanceCheck-D1750 for Body

Date: 2016.11.11

DUT: Dipole 1750 MHz D1750V2; Type: D1750V2 SN:1108;

Communication System: CW; Communication System Band: D1750 (1750.0 MHz); Frequency: 1750

MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1750 MHz; $\sigma = 1.47 \text{ mho/m}$; $\varepsilon_r = 53.41$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 SN3881; ConvF(8.03, 8.03, 8.03); Calibrated: 2016.07.28.;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn876; Calibrated: 2016.03.02.
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1504
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Body/Dipole1750MHz/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm,

dy=1.500 mm

Reference Value = 89.12 V/m; Power Drift =- 0.05 dB

Fast SAR: SAR(1 g) = 9.71 mW/g; SAR(10 g) = 4.58 mW/g

Maximum value of SAR (interpolated) = 12.1 W/kg

Body/Dipole1750MHz/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

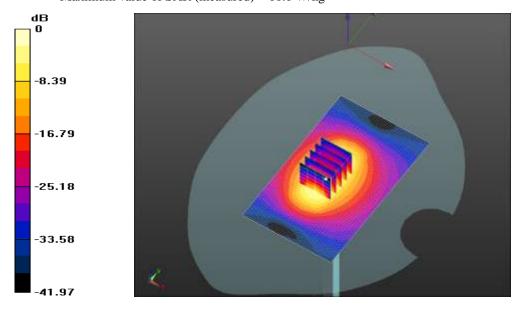
dy=8mm, dz=5mm

Reference Value = 89.12 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 16.646 mW/g

SAR(1 g) = 9.49 mW/g; SAR(10 g) = 4.82 mW/g

Maximum value of SAR (measured) = 11.1 W/kg



0 dB = 12.1 W/kg = 21.64 dB W/kg

Report No.: WT168006223 Page 4 of 7

SystemPerformanceCheck-D1900 for Body

Date: 2016.11.08

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2 SN:5d162;

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Frequency: 1900

MHz;Duty Cycle: 1:1

Medium parameters used: f = 1900 MHz; $\sigma = 1.5$ mho/m; $\varepsilon_r = 54.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 SN3881; ConvF(7.68, 7.68, 7.68); Calibrated: 2016.07.28.;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn876; Calibrated: 2016.03.02.
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1504
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Body/Dipole1900/Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 76.62 V/m; Power Drift = 0.05 dB

Fast SAR: SAR(1 g) = 11.1 mW/g; SAR(10 g) = 5.09 mW/g

Maximum value of SAR (interpolated) = 13.1 W/kg

Body/Dipole1900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

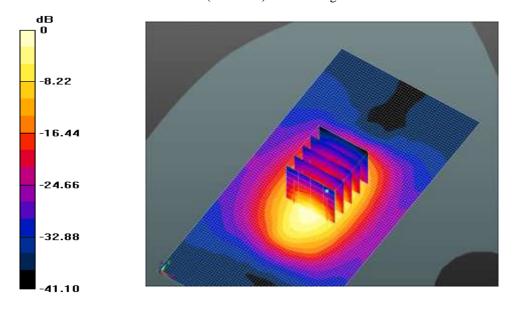
dy=8mm, dz=5mm

Reference Value = 76.62 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 21.380 mW/g

SAR(1 g) = 10.9 mW/g; SAR(10 g) = 5.25 mW/g

Maximum value of SAR (measured) = 12.7 W/kg



0 dB = 13.1 W/kg = 22.35 dB W/kg

Report No.: WT168006223 Page 5 of 7

SystemPerformanceCheck-D2450 for Body

Date: 2016.11.09

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2 SN:818;

Communication System: CW; Communication System Band: D2450 (2450.0 MHz); Frequency: 2450

MHz;Duty Cycle: 1:1

Medium parameters used: f = 2450 MHz; $\sigma = 1.97 \text{ mho/m}$; $\varepsilon_r = 53.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 SN3881; ConvF(7.07, 7.07, 7.07); Calibrated: 2015.11.26.;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn876; Calibrated: 2016.03.02.
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1504
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Body/Dipole2450/Area Scan (91x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 85.15 V/m; Power Drift = 0.02 dB

Fast SAR: SAR(1 g) = 12.5 mW/g; SAR(10 g) = 5.7 mW/g

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

Body/Dipole2450/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

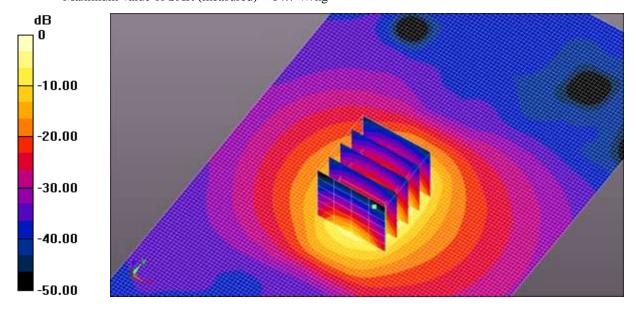
dy=8mm, dz=5mm

Reference Value = 85.15 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 29.380 mW/g

SAR(1 g) = 13 mW/g; SAR(10 g) = 5.7 mW/g

Maximum value of SAR (measured) = 14.7 W/kg



0 dB = 15.1 W/kg = 23.59 dB W/kg

Report No.: WT168006223 Page 6 of 7

SystemPerformanceCheck-D2600 for Body

Date: 2016.11.14

DUT: Dipole 2600 MHz D2600V2; Type: D2600V2 SN:1074;

Communication System: CW; Communication System Band: D2600 (2600.0 MHz); Frequency: 2600

MHz;Duty Cycle: 1:1

Medium parameters used: f = 2600 MHz; $\sigma = 2.18$ mho/m; $\varepsilon_r = 53.0$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 SN3881; ConvF(6.87, 6.87, 6.87); Calibrated: 2015.11.26.;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn876; Calibrated: 2016.03.02.
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1504
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Body/Dipole2600MHz/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm,

dy=1.500 mm

Reference Value = 85.83 V/m; Power Drift = -0.01 dB

Fast SAR: SAR(1 g) = 12.9 mW/g; SAR(10 g) = 6.35 mW/g

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

Body/Dipole2600MHz/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

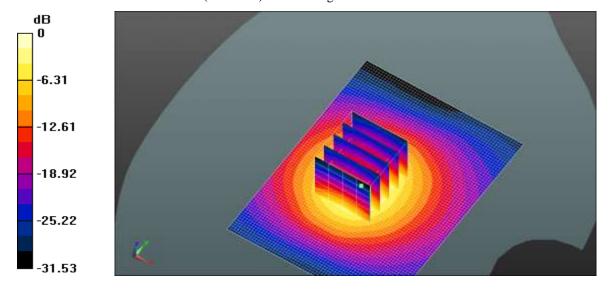
dy=8mm, dz=5mm

Reference Value = 85.83 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 29.077 mW/g

SAR(1 g) = 13 mW/g; SAR(10 g) = 6.14 mW/g

Maximum value of SAR (measured) = 14.3 W/kg



0 dB = 15.2 W/kg = 23.61 dB W/kg

Report No.: WT168006223 Page 7 of 7