

Report No.: ZR/2019/B001307

Appendix A

Detailed System Check Results

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Test Laboratory: SGS-SAR Lab

System Performance Check 750 MHz Head

DUT: D750V3; Type: D750V3; Serial: 1160

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium parameters used: f = 750 MHz; $\sigma = 0.884$ S/m; $\varepsilon_r = 42.499$; $\rho = 1000$

 kg/m^3

Phantom section: Flat Section

DASY 5 Configuration:

• Probe: EX3DV4 - SN3923; ConvF(10.62, 10.62, 10.62); Calibrated: 2019-10-22;

• Sensor-Surface: 1.4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn871; Calibrated: 2019-06-27

• Phantom: SAM 8; Type: SAM; Serial: 1063

• DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Body/d=15mm, Pin=250mW/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 2.62 W/kg

Body/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

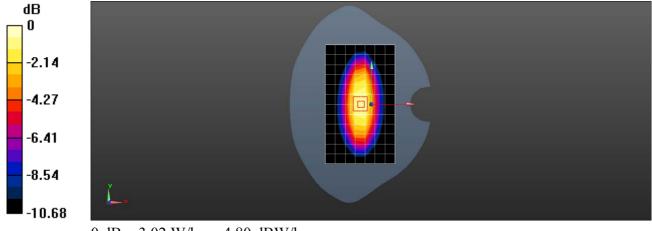
dy=8mm, dz=5mm

Reference Value = 50.64 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 3.52 W/kg

SAR(1 g) = 2.16 W/kg; SAR(10 g) = 1.41 W/kg

Maximum value of SAR (measured) = 3.02 W/kg



0 dB = 3.02 W/kg = 4.80 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 750 MHz Head

DUT: D750V3; Type: D750V3; Serial: 1160

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium parameters used: f = 750 MHz; $\sigma = 0.879$ S/m; $\varepsilon_r = 42.786$; $\rho = 1000$

 kg/m^3

Phantom section: Flat Section

DASY 5 Configuration:

• Probe: EX3DV4 - SN3923; ConvF(10.62, 10.62, 10.62); Calibrated: 2019-10-22;

• Sensor-Surface: 1.4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn871; Calibrated: 2019-06-27

• Phantom: SAM 8; Type: SAM; Serial: 1063

• DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Body/d=15mm, Pin=250mW/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 2.61 W/kg

Body/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

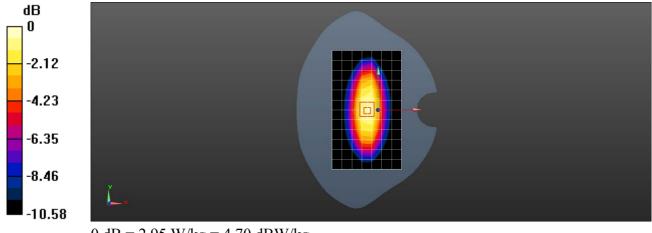
dy=8mm, dz=5mm

Reference Value = 50.48 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 3.47 W/kg

SAR(1 g) = 2.15 W/kg; SAR(10 g) = 1.4 W/kg

Maximum value of SAR (measured) = 2.95 W/kg



0 dB = 2.95 W/kg = 4.70 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 835 MHz Head

DUT: D835V2; Type: D835V2; Serial: 4d105

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium parameters used: f = 835 MHz; $\sigma = 0.886$ S/m; $\varepsilon_r = 40.798$; $\rho = 1000$

 kg/m^3

Phantom section: Flat Section

DASY 5 Configuration:

• Probe: EX3DV4 - SN3793; ConvF(9.04, 9.04, 9.04); Calibrated: 2019-03-25;

• Sensor-Surface: 1.4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn871; Calibrated: 2019-06-27

• Phantom: SAM 8; Type: SAM; Serial: 1063

• DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Body/d=15mm, Pin=250mW/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 2.97 W/kg

Body/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

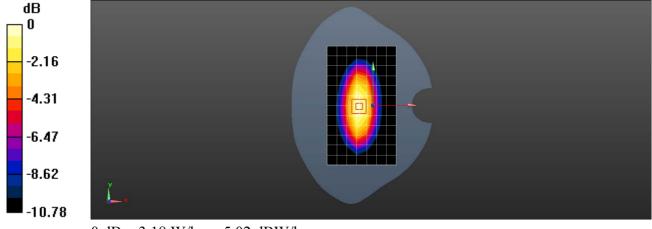
dy=8mm, dz=5mm

Reference Value = 53.74 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 3.82 W/kg

SAR(1 g) = 2.47 W/kg; SAR(10 g) = 1.61 W/kg

Maximum value of SAR (measured) = 3.18 W/kg



0 dB = 3.18 W/kg = 5.02 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 835 MHz Head

DUT: D835V2; Type: D835V2; Serial: 4d105

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium parameters used: f = 835 MHz; $\sigma = 0.939$ S/m; $\varepsilon_r = 41.76$; $\rho = 1000$

 kg/m^3

Phantom section: Flat Section

DASY 5 Configuration:

• Probe: EX3DV4 - SN3793; ConvF(9.04, 9.04, 9.04); Calibrated: 2019-03-25;

• Sensor-Surface: 1.4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn871; Calibrated: 2019-06-27

• Phantom: SAM 8; Type: SAM; Serial: 1063

• DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Body/d=15mm, Pin=250mW/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 3.17 W/kg

Body/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

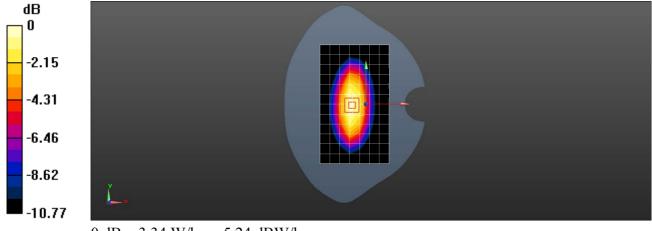
dy=8mm, dz=5mm

Reference Value = 53.85 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 4.01 W/kg

SAR(1 g) = 2.61 W/kg; SAR(10 g) = 1.7 W/kg

Maximum value of SAR (measured) = 3.34 W/kg



0 dB = 3.34 W/kg = 5.24 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 1750 MHz Head

DUT: D1750V2; Type: D1750V2; Serial: 1149

Communication System: UID 0, CW (0); Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: HSL1750; Medium parameters used: f = 1750 MHz; $\sigma = 1.323$ S/m; $\varepsilon_r = 40.342$; $\rho = 1000$

 kg/m^3

Phantom section: Flat Section

DASY 5 Configuration:

• Probe: EX3DV4 - SN3748; ConvF(7.6, 7.6, 7.6); Calibrated: 2019-06-19;

• Sensor-Surface: 1.4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn896; Calibrated: 2019-09-18

• Phantom: SAM 3; Type: SAM; Serial: 1912

• DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Body/d=10mm, Pin=250mW/Area Scan (6x10x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 11.4 W/kg

Body/d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

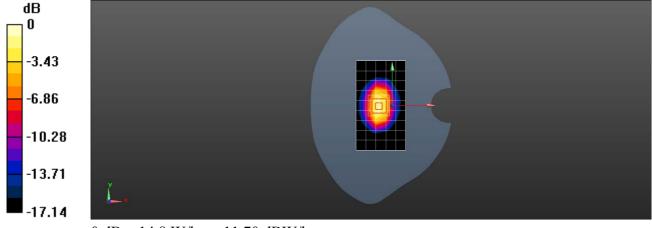
dy=8mm, dz=5mm

Reference Value = 88.03 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 17.6 W/kg

SAR(1 g) = 9.45 W/kg; SAR(10 g) = 5.01 W/kg

Maximum value of SAR (measured) = 14.8 W/kg



0 dB = 14.8 W/kg = 11.70 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 1900 MHz Head

DUT: D1900V2; Type: D1900V2; Serial: 5d028

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium parameters used: f = 1900 MHz; $\sigma = 1.369$ S/m; $\varepsilon_r = 40.221$; $\rho = 1000$

 kg/m^3

Phantom section: Flat Section

DASY 5 Configuration:

• Probe: EX3DV4 - SN3982; ConvF(8.48, 8.48, 8.48); Calibrated: 2019-09-11;

• Sensor-Surface: 1.4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn896; Calibrated: 2019-09-18

• Phantom: SAM 4; Type: SAM; Serial: 1640

• DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Body/d=10mm, Pin=250mW/Area Scan (8x9x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 9.54 W/kg

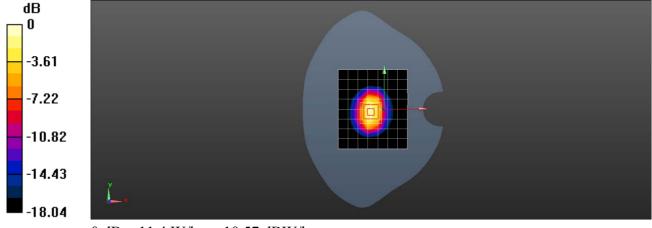
Body/d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dv=8mm, dz=5mm

Reference Value = 88.89 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 18.8 W/kg

SAR(1 g) = 10.2 W/kg; SAR(10 g) = 5.24 W/kg

Maximum value of SAR (measured) = 11.4 W/kg



0 dB = 11.4 W/kg = 10.57 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 1900 MHz Head

DUT: D1900V2; Type: D1900V2; Serial: 5d028

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium parameters used: f = 1900 MHz; $\sigma = 1.437$ S/m; $\varepsilon_r = 41.171$; $\rho = 1000$

 kg/m^3

Phantom section: Flat Section

DASY 5 Configuration:

• Probe: EX3DV4 - SN3923; ConvF(8.64, 8.64, 8.64); Calibrated: 2019-10-22;

• Sensor-Surface: 1.4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn896; Calibrated: 2019-09-18

• Phantom: SAM 4; Type: SAM; Serial: 1640

• DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Body/d=10mm, Pin=250mW/Area Scan (8x11x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 10.1 W/kg

Body/d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

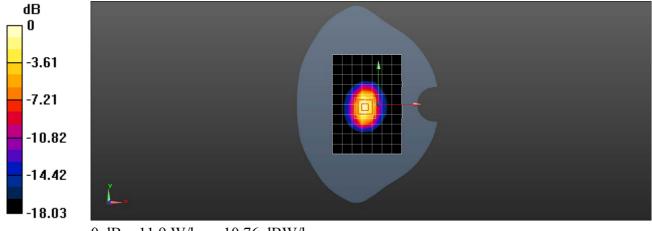
dy=8mm, dz=5mm

Reference Value = 88.60 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 19.6 W/kg

SAR(1 g) = 10.6 W/kg; SAR(10 g) = 5.49 W/kg

Maximum value of SAR (measured) = 11.9 W/kg



0 dB = 11.9 W/kg = 10.76 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 2450MHz Head

DUT: D2450V2; Type: D2450V2; Serial: 733

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: HSL2450; Medium parameters used: f = 2450 MHz; $\sigma = 1.878$ S/m; $\varepsilon_r = 38.488$; $\rho = 1000$

 kg/m^3

Phantom section: Flat Section

DASY 5 Configuration:

• Probe: EX3DV4 - SN3923; ConvF(7.87, 7.87, 7.87); Calibrated: 2019-10-22;

• Sensor-Surface: 1.4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn871; Calibrated: 2019-06-27

• Phantom: SAM 7; Type: SAM; Serial: 1027

• DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Body/d=10mm, Pin=250mW/Area Scan (10x10x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 17.6 W/kg

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

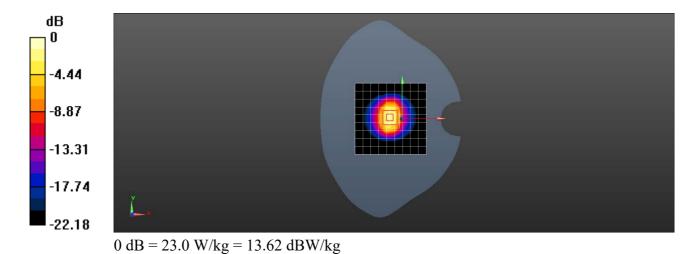
dy=5mm, dz=5mm

Reference Value = 90.70 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 28.3 W/kg

SAR(1 g) = 13.7 W/kg; SAR(10 g) = 6.33 W/kg

Maximum value of SAR (measured) = 23.0 W/kg



Test Laboratory: SGS-SAR Lab

System Performance Check 2600MHz Head

DUT: D2600V2; Type: D2600V2; Serial: 1125

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: HSL2600; Medium parameters used: f = 2600 MHz; $\sigma = 1.932$ S/m; $\varepsilon_r = 40.215$; $\rho = 1000$

 kg/m^3

Phantom section: Flat Section

DASY 5 Configuration:

• Probe: EX3DV4 - SN3923; ConvF(7.87, 7.87, 7.87); Calibrated: 2019-10-22;

• Sensor-Surface: 1.4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn871; Calibrated: 2019-06-27

• Phantom: SAM 7; Type: SAM; Serial: 1027

• DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Body/d=10mm, Pin=250mW/Area Scan (9x10x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 20.8 W/kg

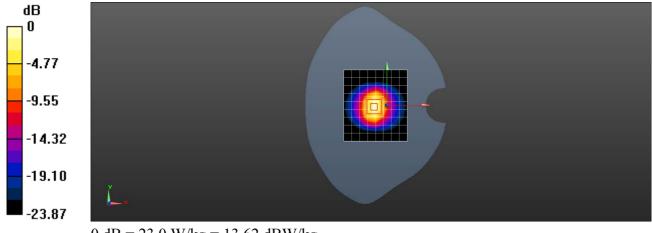
Body/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm,

dy=5mm, dz=5mm

Reference Value = 86.89 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 28.8 W/kg

SAR(1 g) = 13.3 W/kg; SAR(10 g) = 5.95 W/kgMaximum value of SAR (measured) = 23.0 W/kg



0 dB = 23.0 W/kg = 13.62 dBW/kg