# Appendix A

## Detailed System Check Results

| 1. System Performance Check |
|---|
| System Performance Check 835 MHz Head |
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| System Performance Check 2450 MHz Head |
| System Performance Check 2600 MHz Head |
| System Performance Check 5250 MHz Head |
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| System Performance Check 5750 MHz Head |

Date: 2020-12-24

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

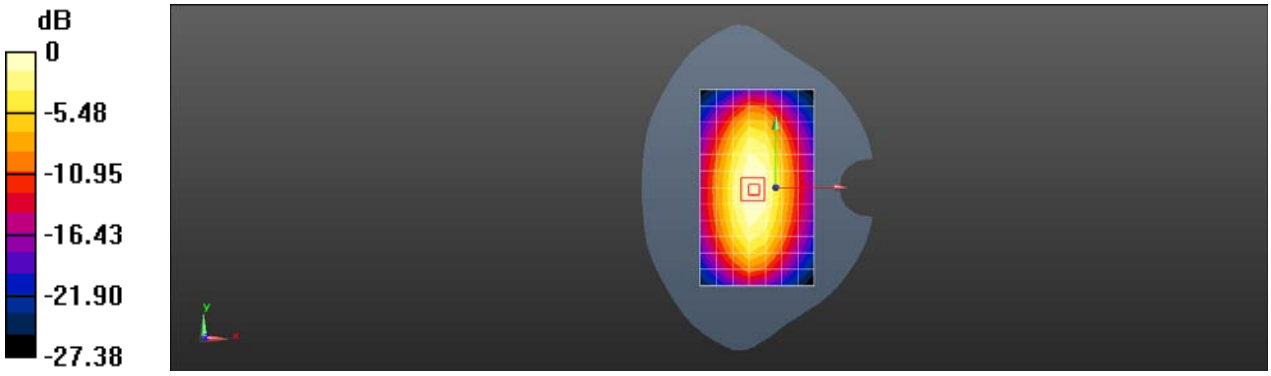
Medium: HSL835;Medium parameters used: f = 835 MHz; $\sigma$ = 0.973 S/m; $\varepsilon_r$ = 41.684; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(10.35, 10.35, 10.35); Calibrated: 2020-12-18;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1374; Calibrated: 2020-11-06
- Phantom: SAM6; Type: SAM; Serial: 1824
- DASY52 52.8.8(1258); 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) = 2.38 W/kg

**Body/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 47.56 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 3.03 W/kg
**SAR(1 g) = 2.38 W/kg; SAR(10 g) = 1.59 W/kg**
Maximum value of SAR (measured) = 2.54 W/kg




0 dB = 2.38 W/kg = 3.76 dBW/kg

Date: 2020-12-31

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

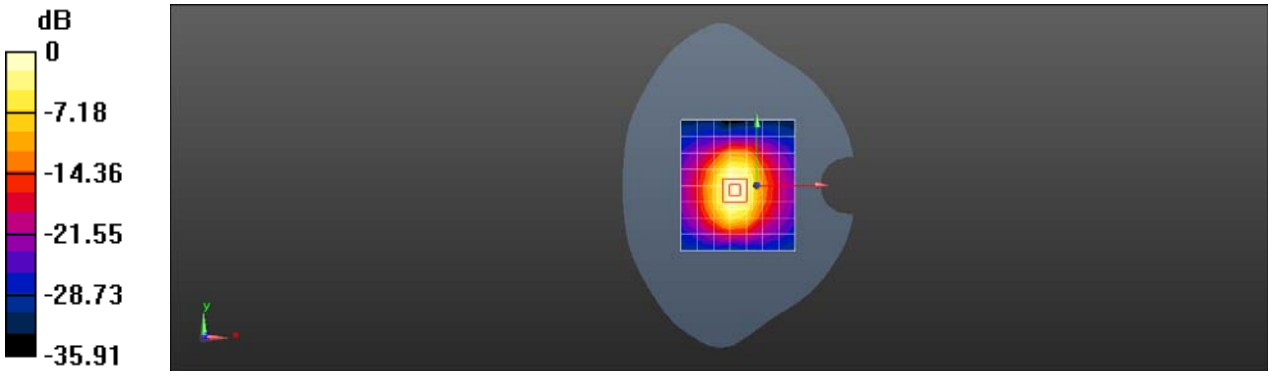
Medium: HSL1900;Medium parameters used: f = 1900 MHz; $\sigma$ = 1.39 S/m; $\varepsilon_r$ = 40.792; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(8.55, 8.55, 8.55); Calibrated: 2020-12-18;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1374; Calibrated: 2020-11-06
- Phantom: SAM6; Type: SAM; Serial: 1824
- DASY52 52.8.8(1258); 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) = 7.67 W/kg

**Body/d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 79.21 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 15.0 W/kg
**SAR(1 g) = 9.86 W/kg; SAR(10 g) = 5.2 W/kg**
Maximum value of SAR (measured) = 9.12 W/kg




0 dB = 7.67 W/kg = 8.85 dBW/kg

Date: 2020-12-27

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

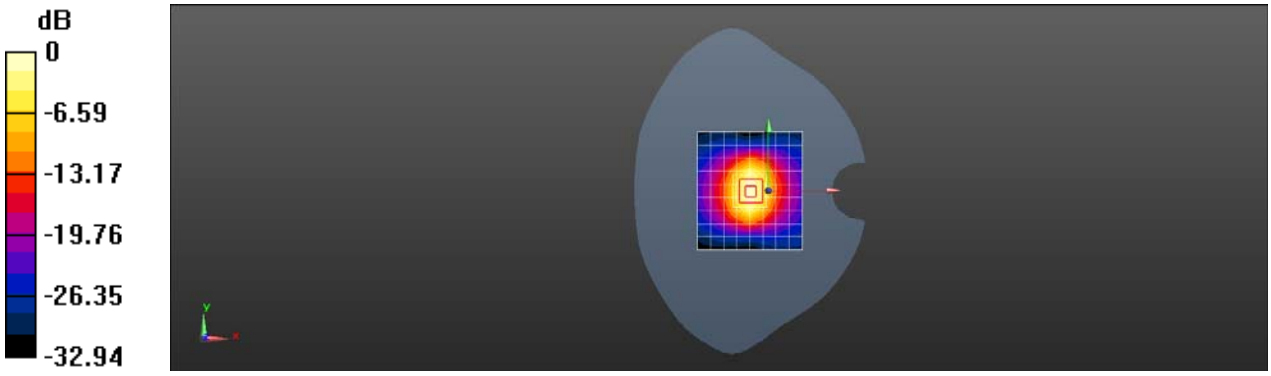
Medium: HSL2450;Medium parameters used: f = 2450 MHz; $\sigma$ = 1.811 S/m; $\varepsilon_r$ = 38.95; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.95, 7.95, 7.95); Calibrated: 2020-12-18;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1374; Calibrated: 2020-11-06
- Phantom: SAM6; Type: SAM; Serial: 1824
- DASY52 52.8.8(1258); 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) = 15.8 W/kg

**Body/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 79.36 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 21.0 W/kg
**SAR(1 g) = 12.95 W/kg; SAR(10 g) = 5.89 W/kg**
Maximum value of SAR (measured) = 16.7 W/kg




0 dB = 15.8 W/kg = 11.98 dBW/kg

Date: 2021-01-13

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

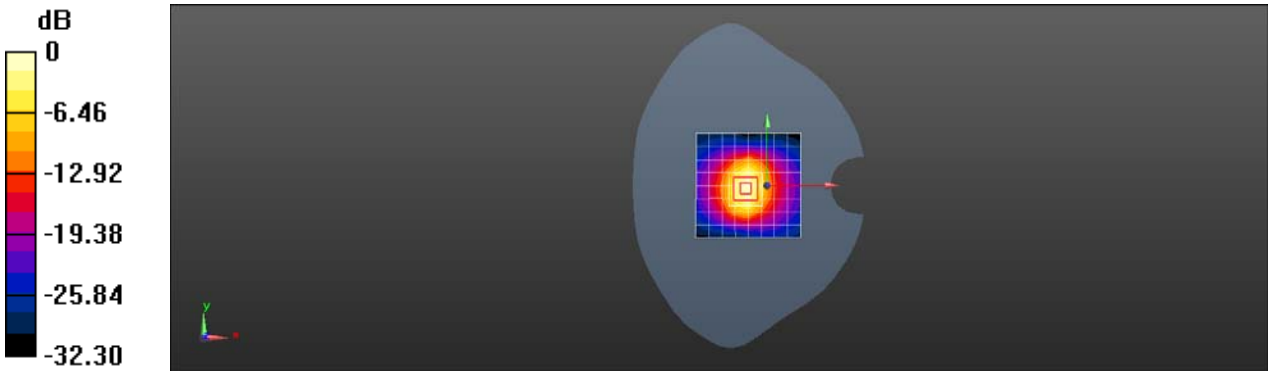
Medium: HSL2600;Medium parameters used: f = 2600 MHz; $\sigma$ = 1.999 S/m; $\varepsilon_r$ = 37.908; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.7, 7.7, 7.7); Calibrated: 2020-12-18;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1374; Calibrated: 2020-11-06
- Phantom: SAM6; Type: SAM; Serial: 1824
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7331)

**Body/d=10mm, Pin=250mW/Area Scan (9x9x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 18.2 W/kg

**Body/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 78.09 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 24.2 W/kg
**SAR(1 g) = 13.92 W/kg; SAR(10 g) = 6.22 W/kg**
Maximum value of SAR (measured) = 19.2 W/kg




0 dB = 18.2 W/kg = 12.60 dBW/kg

Date: 2020-12-28

Test Laboratory: SGS-SAR Lab

## System Performance Check D5.25GHz Head

### DUT: D5GHzV2; Type: D5GHzV2; Serial: 1165

Communication System: UID 0, CW (0); Frequency: 5250 MHz;Duty Cycle: 1:1

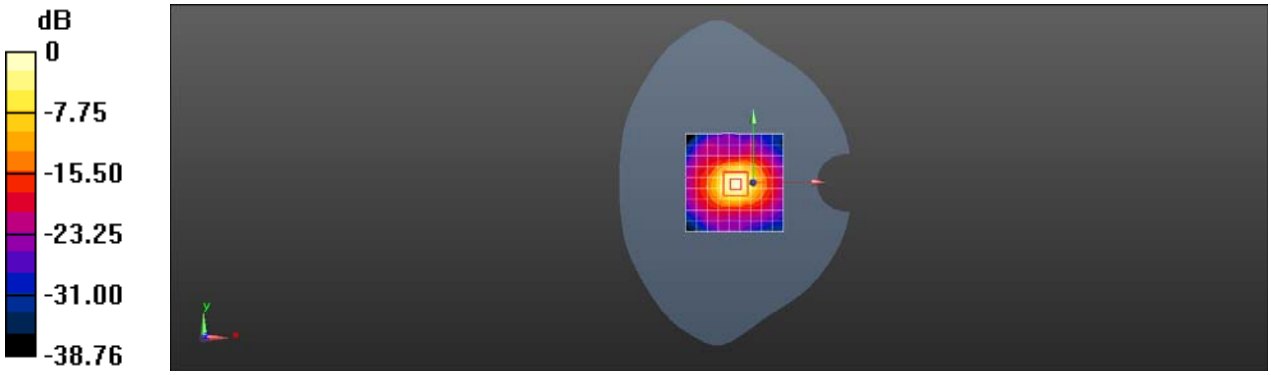
Medium: HSL5G;Medium parameters used: f = 5250 MHz; $\sigma$ = 4.721 S/m; $\varepsilon_r$ = 36.578; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(5.7, 5.7, 5.7); Calibrated: 2020-10-28;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1374; Calibrated: 2020-11-06
- Phantom: SAM6; Type: SAM; Serial: 1824
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7331)

**Body/d=10mm, Pin=100mW, f=5250 MHz/Area Scan (10x10x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 10.2 W/kg

**Body/d=10mm, Pin=100mW, f=5250 MHz/Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 61.21 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 24.2 W/kg
**SAR(1 g) = 7.64 W/kg; SAR(10 g) = 2.19 W/kg**
Maximum value of SAR (measured) = 13.9 W/kg




0 dB = 10.2 W/kg = 10.10 dBW/kg

Date: 2020-12-28

Test Laboratory: SGS-SAR Lab

## System Performance Check D5.6GHz Head

### DUT: D5GHzV2; Type: D5GHzV2; Serial: 1165

Communication System: UID 0, CW (0); Frequency: 5600 MHz;Duty Cycle: 1:1

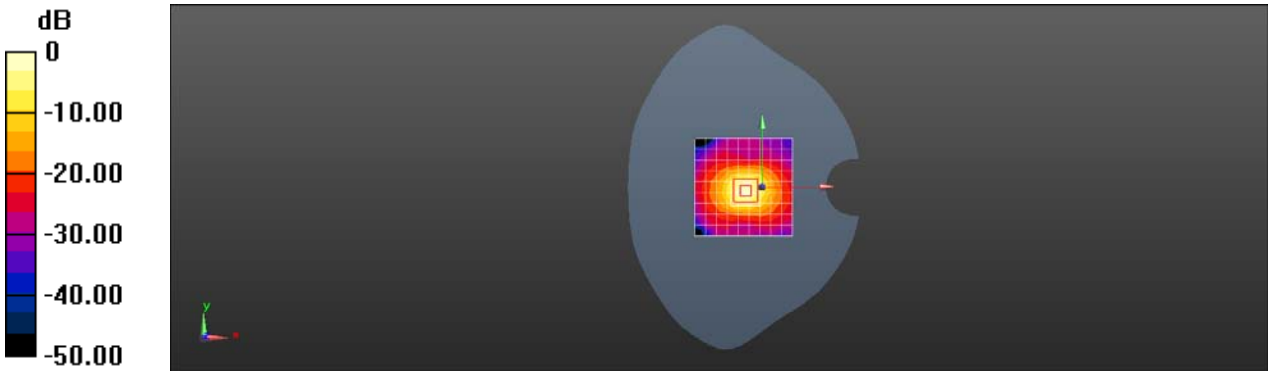
Medium: HSL5G;Medium parameters used: f = 5600 MHz; $\sigma$ = 5.107 S/m; $\varepsilon_r$ = 35.626; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(5.12, 5.12, 5.12); Calibrated: 2020-10-28;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1374; Calibrated: 2020-11-06
- Phantom: SAM6; Type: SAM; Serial: 1824
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7331)

**Body/d=10mm, Pin=100mW, f=5600 MHz/Area Scan (10x10x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 13.8 W/kg

**Body/d=10mm, Pin=100mW, f=5600 MHz/Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 57.83 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 28.7 W/kg
**SAR(1 g) = 7.98 W/kg; SAR(10 g) = 2.17 W/kg**
Maximum value of SAR (measured) = 16.2 W/kg




0 dB = 13.8 W/kg = 11.40 dBW/kg

Date: 2020-12-28

Test Laboratory: SGS-SAR Lab

## System Performance Check D5.75GHz Head

### DUT: D5GHzV2; Type: D5GHzV2; Serial: 1165

Communication System: UID 0, CW (0); Frequency: 5750 MHz;Duty Cycle: 1:1

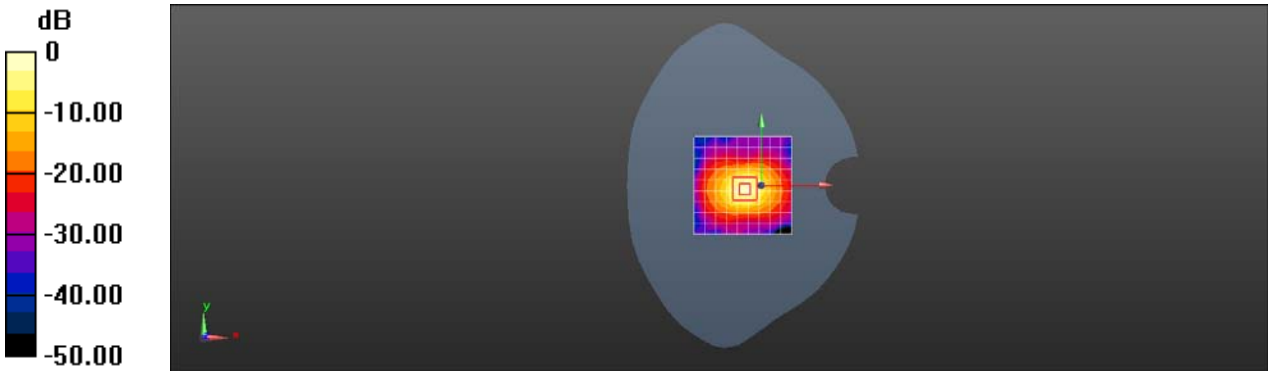
Medium: HSL5G;Medium parameters used: f = 5750 MHz; $\sigma$ = 5.279 S/m; $\varepsilon_r$ = 35.262; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(5.14, 5.14, 5.14); Calibrated: 2020-10-28;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1374; Calibrated: 2020-11-06
- Phantom: SAM6; Type: SAM; Serial: 1824
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7331)

**Body/d=10mm, Pin=100mW, f=5750 MHz/Area Scan (10x10x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 15.8 W/kg

**Body/d=10mm, Pin=100mW, f=5750 MHz/Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 58.20 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 31.1 W/kg
**SAR(1 g) = 7.89 W/kg; SAR(10 g) = 2.25 W/kg**
Maximum value of SAR (measured) = 16.9 W/kg




0 dB = 15.8 W/kg = 11.98 dBW/kg