

# Appendix A

## Detailed System Check Results

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Test Laboratory: SGS-SAR Lab

## System Performance Check 750 MHz

**DUT: D750V3; Type: Dipole; Serial: 1210**

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

Medium: HSL750; Medium parameters used:  $f = 750$  MHz;  $\sigma = 0.887$  S/m;  $\epsilon_r = 41.78$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7735; ConvF(9.61, 9.61, 9.61); Calibrated: 2023-10-17
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1327; Calibrated: 2023-11-17
- Phantom: SAM 7; Type: SAM; Serial: 1702
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Body/d=15mm, Pin=250mW/Area Scan (8x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.63 W/kg

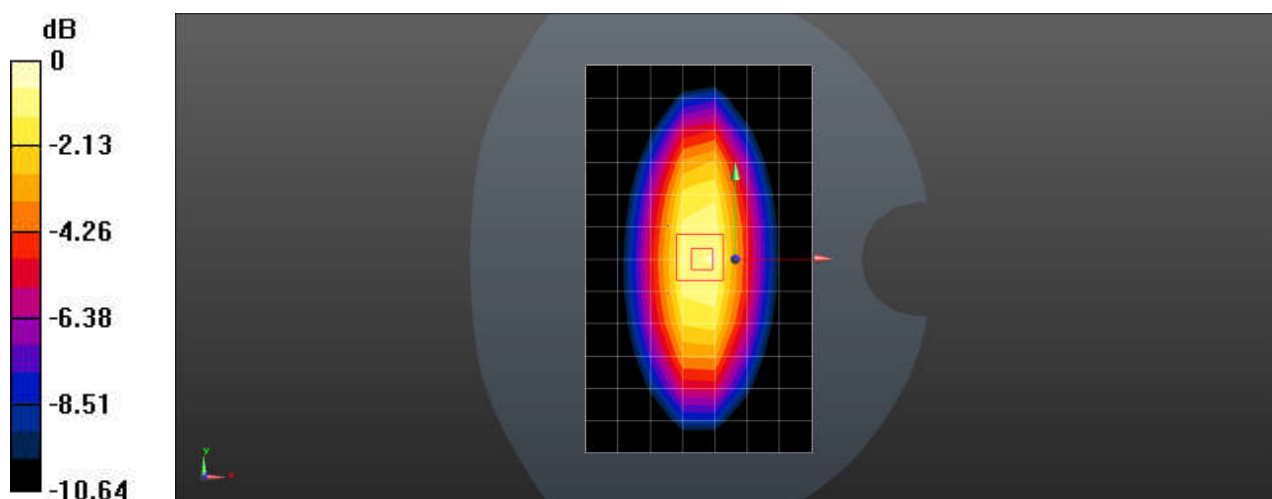
**Body/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 50.67 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 3.54 W/kg

**SAR(1 g) = 2.17 W/kg; SAR(10 g) = 1.42 W/kg**

Maximum value of SAR (measured) = 3.03 W/kg



Test Laboratory: SGS-SAR Lab

## System Performance Check 835 MHz

**DUT: D835V2; Type: Dipole; Serial: 4d161**

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

Medium: HSL835; Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.907$  S/m;  $\epsilon_r = 42.025$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7735; ConvF(9.2, 9.2, 9.2); Calibrated: 2023-10-17
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1327; Calibrated: 2023-11-17
- Phantom: SAM 7; Type: SAM; Serial: 1702
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Body/d=15mm, Pin=250mW/Area Scan (8x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 3.08 W/kg

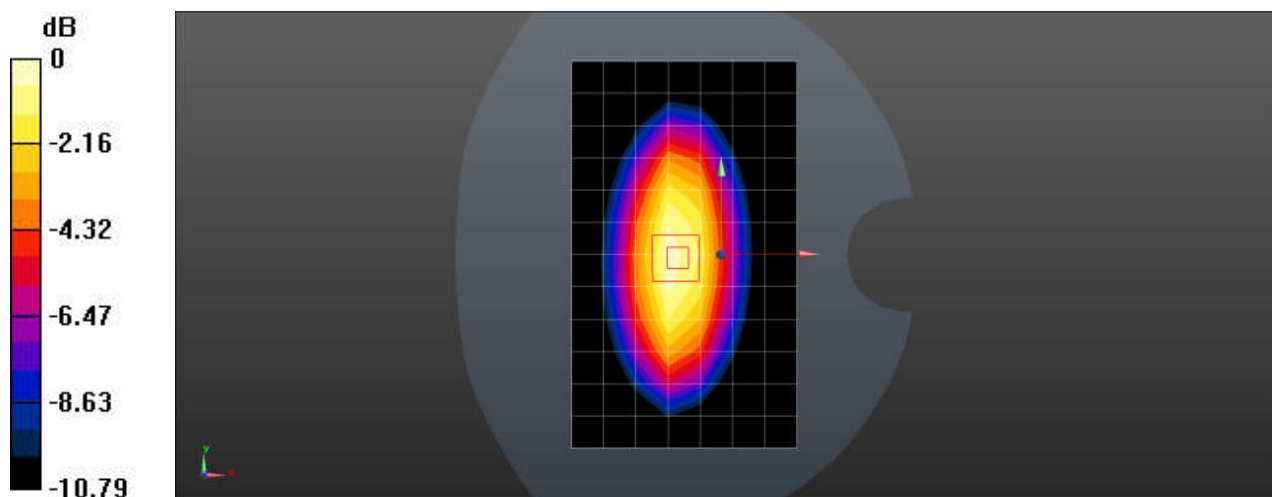
**Body/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 53.72 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 3.91 W/kg

**SAR(1 g) = 2.53 W/kg; SAR(10 g) = 1.64 W/kg**

Maximum value of SAR (measured) = 3.25 W/kg



Test Laboratory: SGS-SAR Lab

## System Performance Check 1950 MHz

**DUT: D1950V3; Type: Dipole; Serial: 1218**

Communication System: UID 0, CW (0); Frequency: 1950 MHz; Duty Cycle: 1:1

Medium: HSL1950; Medium parameters used:  $f = 1950$  MHz;  $\sigma = 1.408$  S/m;  $\epsilon_r = 38.645$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7735; ConvF(7.81, 7.81, 7.81); Calibrated: 2023-10-17
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1327; Calibrated: 2023-11-17
- Phantom: SAM 7; Type: SAM; Serial: 1702
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Body/d=10mm, Pin=250mW/Area Scan (9x11x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 15.4 W/kg

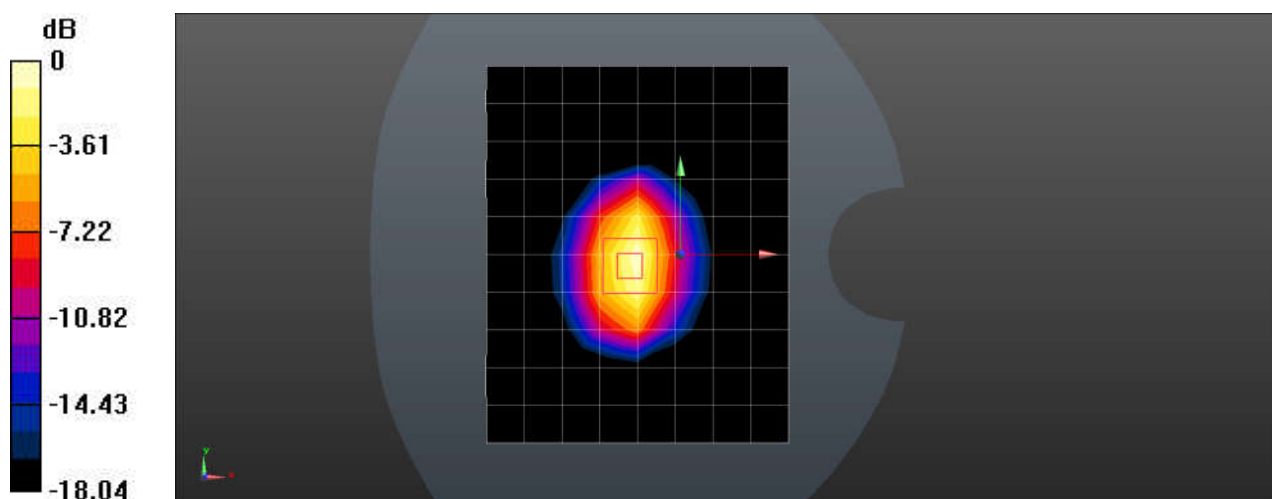
**Body/d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 89.37 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 19.7 W/kg

**SAR(1 g) = 10.7 W/kg; SAR(10 g) = 5.49 W/kg**

Maximum value of SAR (measured) = 16.6 W/kg



Test Laboratory: SGS-SAR Lab

## System Performance Check 2300MHz

**DUT: D2300V2; Type: Dipole; Serial: 1072**

Communication System: UID 0, CW (0); Frequency: 2300 MHz; Duty Cycle: 1:1

Medium: HSL2300; Medium parameters used:  $f = 2300$  MHz;  $\sigma = 1.683$  S/m;  $\epsilon_r = 38.55$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7735; ConvF(7.66, 7.66, 7.66); Calibrated: 2023-10-17
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1327; Calibrated: 2023-11-17
- Phantom: SAM 7; Type: SAM; Serial: 1702
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Body/d=10mm, Pin=250mW/Area Scan (9x11x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 20.0 W/kg

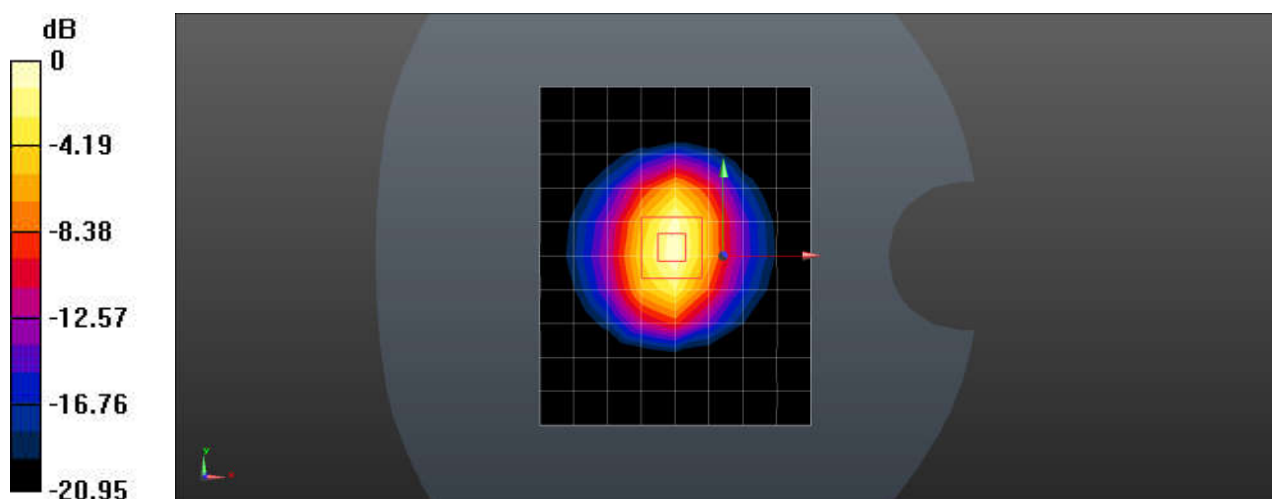
**Body/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 91.12 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 25.5 W/kg

**SAR(1 g) = 12.7 W/kg; SAR(10 g) = 6.09 W/kg**

Maximum value of SAR (measured) = 20.9 W/kg



0 dB = 20.9 W/kg = 13.20 dBW/kg

Test Laboratory: SGS-SAR Lab

## System Performance Check 2450MHz

**DUT: D2450V2; Type: Dipole; Serial: 922**

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

Medium: HSL2450; Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.819$  S/m;  $\epsilon_r = 38.504$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7735; ConvF(7.41, 7.41, 7.41); Calibrated: 2023-10-17
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1327; Calibrated: 2023-11-17
- Phantom: SAM 7; Type: SAM; Serial: 1702
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (measured) = 21.7 W/kg

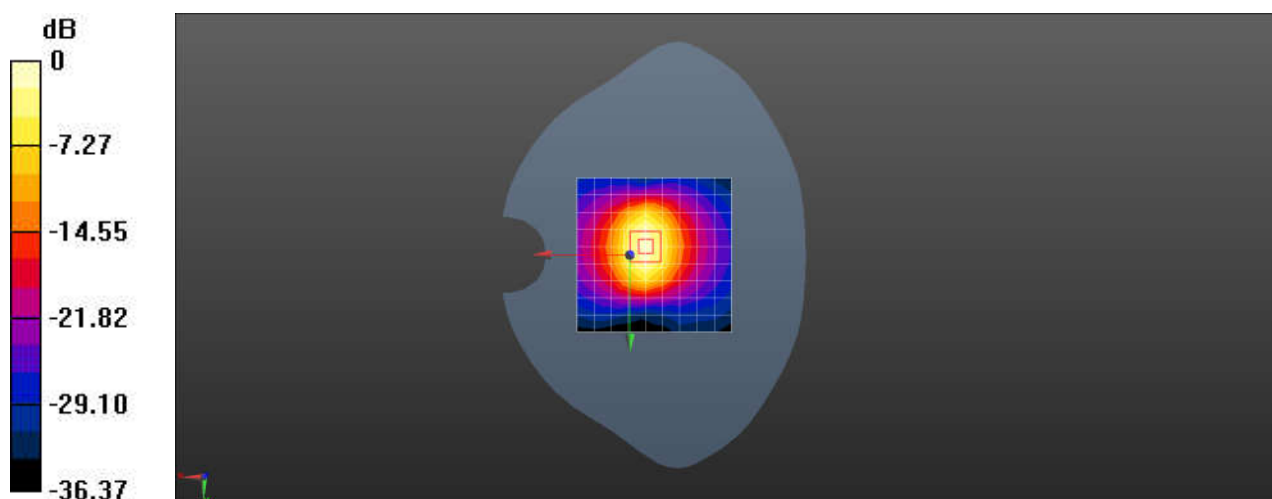
**Body/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 75.32 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 27.6 W/kg

**SAR(1 g) = 12.5 W/kg; SAR(10 g) = 5.58 W/kg**

Maximum value of SAR (measured) = 21.8 W/kg



0 dB = 21.7 W/kg = 13.36 dBW/kg

Test Laboratory: SGS-SAR Lab

## System Performance Check 2600MHz

**DUT: D2600V2; Type: Dipole; Serial: 1187**

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

Medium: HSL2600; Medium parameters used:  $f = 2600$  MHz;  $\sigma = 2.028$  S/m;  $\epsilon_r = 38.194$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7735; ConvF(7.16, 7.16, 7.16); Calibrated: 2023-10-17
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1327; Calibrated: 2023-11-17
- Phantom: SAM 7; Type: SAM; Serial: 1702
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Body/d=10mm, Pin=250mW/Area Scan (8x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 22.5 W/kg

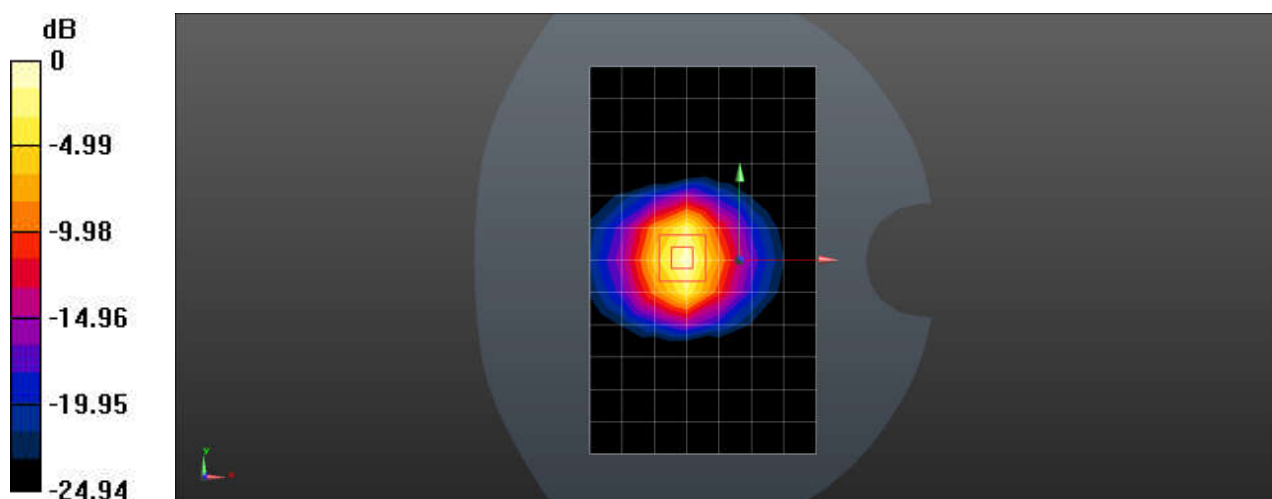
**Body/d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 66.93 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 30.6 W/kg

**SAR(1 g) = 14.5 W/kg; SAR(10 g) = 6.48 W/kg**

Maximum value of SAR (measured) = 24.3 W/kg



Test Laboratory: SGS-SAR Lab

## System Performance Check 3500MHz

**DUT: D3500V2; Type: D3500V2; Serial: 1133**

Communication System: UID 0, CW (0); Frequency: 3500 MHz; Duty Cycle: 1:1

Medium: HSL3500; Medium parameters used:  $f = 3500$  MHz;  $\sigma = 3.021$  S/m;  $\epsilon_r = 38.32$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7735; ConvF(6.82, 6.82, 6.82); Calibrated: 2023-10-17
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1327; Calibrated: 2023-11-17
- Phantom: SAM 7; Type: SAM; Serial: 1702
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Body/d=10mm, Pin=100mW/Area Scan (6x9x1):** Measurement grid: dx=12mm, dy=12mm  
Maximum value of SAR (measured) = 10.4 W/kg

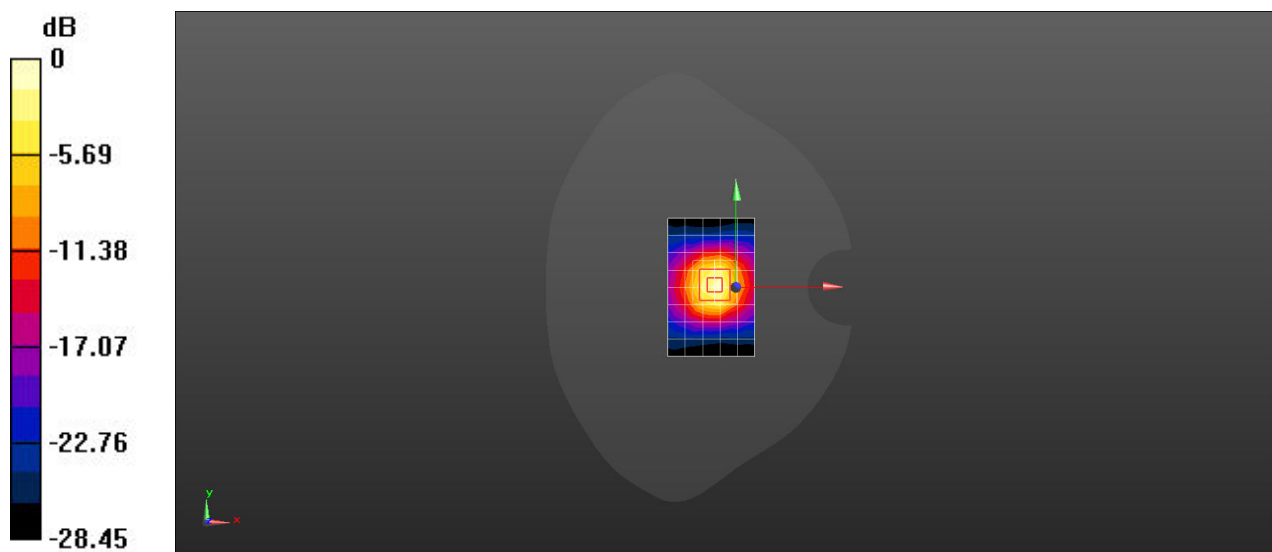
**Body/d=10mm, Pin=100mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 48.63 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 16.8 W/kg

**SAR(1 g) = 6.45 W/kg; SAR(10 g) = 2.45 W/kg**

Maximum value of SAR (measured) = 12.3 W/kg



0 dB = 12.3 W/kg = 10.90 dBW/kg

Test Laboratory: SGS-SAR Lab

## System Performance Check 3700MHz

**DUT: D3700V2; Type: D3700V2; Serial: 1108**

Communication System: UID 0, CW (0); Frequency: 3700 MHz; Duty Cycle: 1:1

Medium: HSL3700; Medium parameters used:  $f = 3700$  MHz;  $\sigma = 3.257$  S/m;  $\epsilon_r = 37.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7735; ConvF(6.67, 6.67, 6.67); Calibrated: 2023-10-17
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1327; Calibrated: 2023-11-17
- Phantom: SAM 7; Type: SAM; Serial: 1702
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Body/d=10mm, Pin=100mW/Area Scan (6x9x1):** Measurement grid: dx=12mm, dy=12mm  
Maximum value of SAR (measured) = 8.55 W/kg

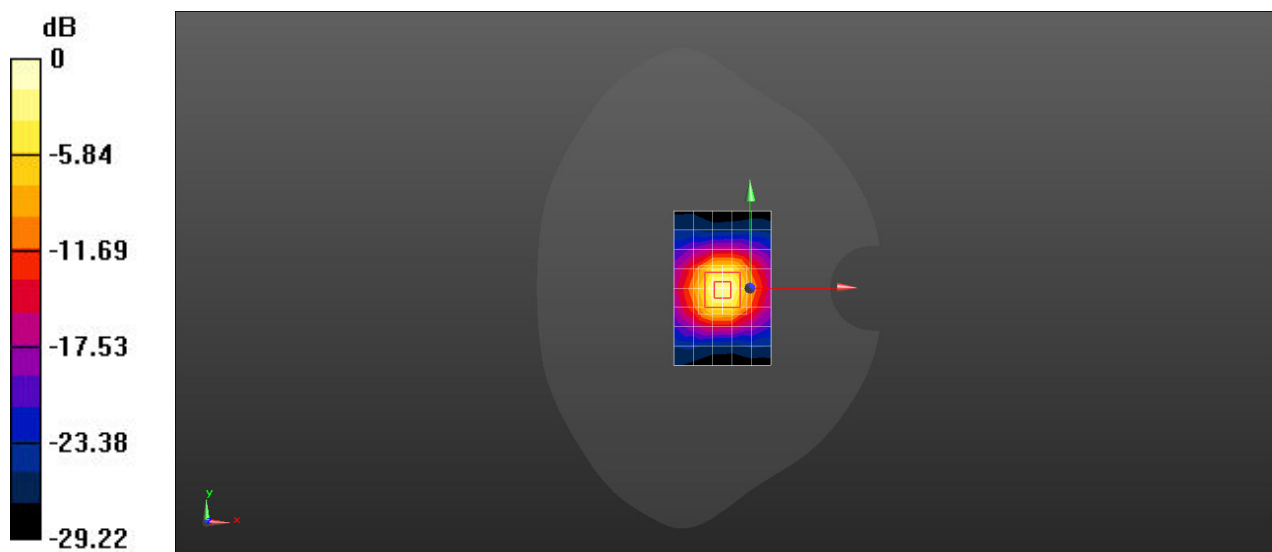
**Body/d=10mm, Pin=100mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 47.51 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 17.4 W/kg

**SAR(1 g) = 6.39 W/kg; SAR(10 g) = 2.34 W/kg**

Maximum value of SAR (measured) = 12.9 W/kg



0 dB = 12.9 W/kg = 11.11 dBW/kg

Test Laboratory: SGS-SAR Lab

## System Performance Check 3900MHz

**DUT: D3900V2; Type: D3900V2; Serial: 1083**

Communication System: UID 0, CW (0); Frequency: 3900 MHz; Duty Cycle: 1:1

Medium: HSL3900; Medium parameters used:  $f = 3900$  MHz;  $\sigma = 3.484$  S/m;  $\epsilon_r = 37.083$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7735; ConvF(6.57, 6.57, 6.57); Calibrated: 2023-10-17
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1327; Calibrated: 2023-11-17
- Phantom: SAM 7; Type: SAM; Serial: 1702
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Body/d=10mm, Pin=100mW/Area Scan (6x9x1):** Measurement grid: dx=12mm, dy=12mm  
Maximum value of SAR (measured) = 13.7 W/kg

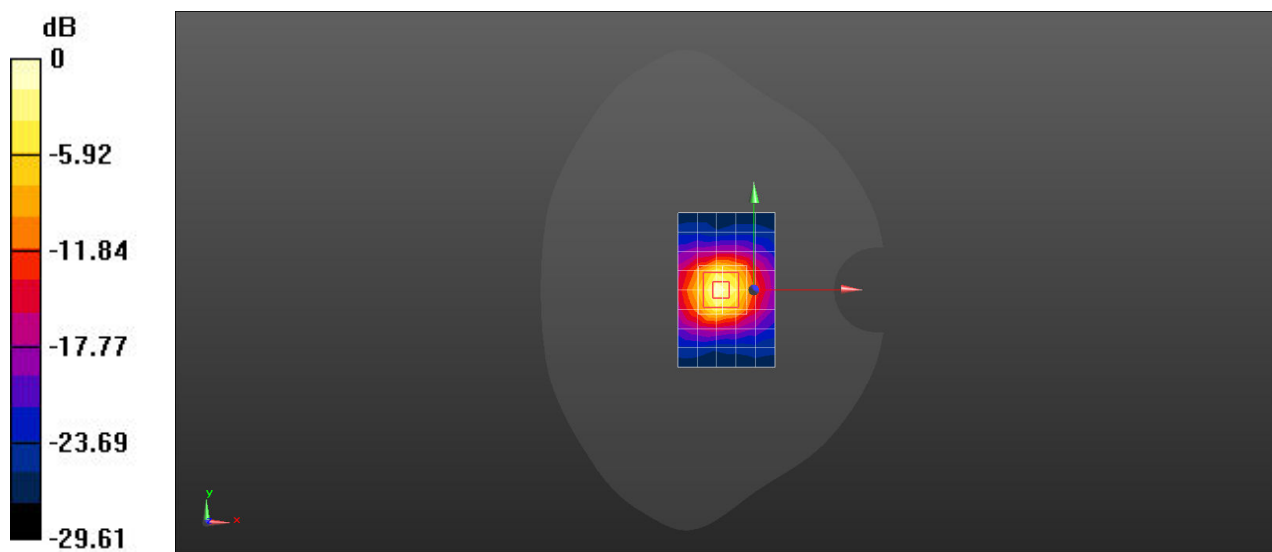
**Body/d=10mm, Pin=100mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 49.12 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 19.5 W/kg

**SAR(1 g) = 7.54 W/kg; SAR(10 g) = 2.5 W/kg**

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



Test Laboratory: SGS-SAR Lab

## System Performance Check 5.25GHz

**DUT: D5GHzV2; Type: Dipole; Serial: 1313**

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

Medium: HSL5G; Medium parameters used:  $f = 5250$  MHz;  $\sigma = 4.706$  S/m;  $\epsilon_r = 35.503$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7735; ConvF(5.3, 5.3, 5.3); Calibrated: 2023-10-17
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1327; Calibrated: 2023-11-17
- Phantom: SAM 7; Type: SAM; Serial: 1702
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Body/d=10mm, Pin=100mW, f=5250 MHz/Area Scan (10x10x1):** Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 12.3 W/kg

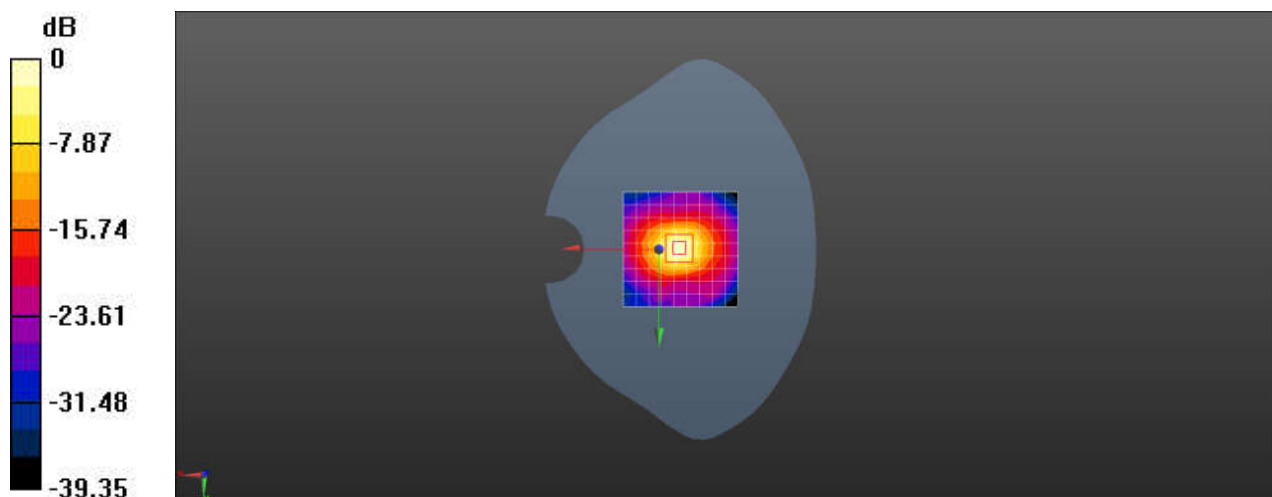
**Body/d=10mm, Pin=100mW, f=5250 MHz/Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 68.50 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 29.2 W/kg

**SAR(1 g) = 7.2 W/kg; SAR(10 g) = 2.05 W/kg**

Maximum value of SAR (measured) = 16.8 W/kg



0 dB = 12.3 W/kg = 10.90 dBW/kg