

# Appendix A

## Detailed System Check Results

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Test Laboratory: SGS-SAR Lab

## System Performance Check 750 MHz Head

**DUT: D750V3; Type: Dipole; Serial: 1214**

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

Medium: HSL750; Medium parameters used:  $f = 750$  MHz;  $\sigma = 0.888$  S/m;  $\epsilon_r = 42.582$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7767; ConvF(10.76, 10.76, 10.76); Calibrated: 2024/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1484; Calibrated: 2024/10/15
- Phantom: SAM 8; Type: SAM; Serial: 1824
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Body/d=15mm, Pin=250mW/Area Scan (7x13x1):** Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 50.69 V/m; Power Drift = -0.11 dB

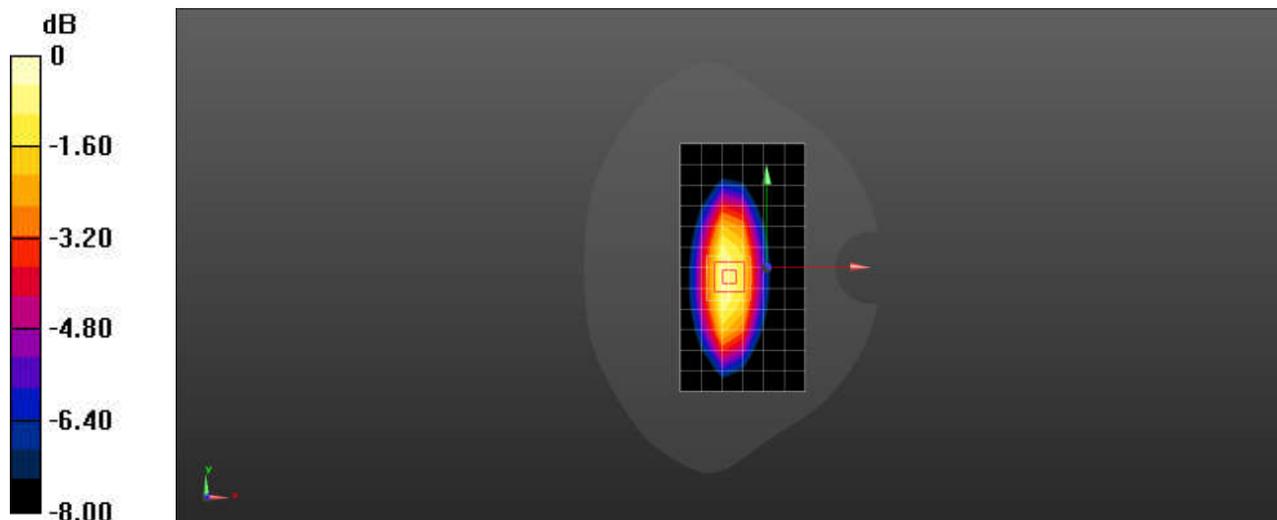
Peak SAR (extrapolated) = 3.39 W/kg

**SAR(1 g) = 2.11 W/kg; SAR(10 g) = 1.41 W/kg**

Smallest distance from peaks to all points 3 dB below = 16.7 mm

Ratio of SAR at M2 to SAR at M1 = 61.8%

Maximum value of SAR (measured) = 2.93 W/kg



0 dB = 2.93 W/kg = 4.67 dBW/kg

Test Laboratory: SGS-SAR Lab

## System Performance Check 835 MHz Head

**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;  $\sigma = 0.904$  S/m;  $\epsilon_r = 42.427$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7767; ConvF(10.34, 10.34, 10.34); Calibrated: 2024/12/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1484; Calibrated: 2024/10/15
- Phantom: SAM 8; Type: SAM; Serial: 1824
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Body/d=15mm, Pin=250mW/Area Scan (7x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.94 W/kg

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

Reference Value = 59.28 V/m; Power Drift = -0.11 dB

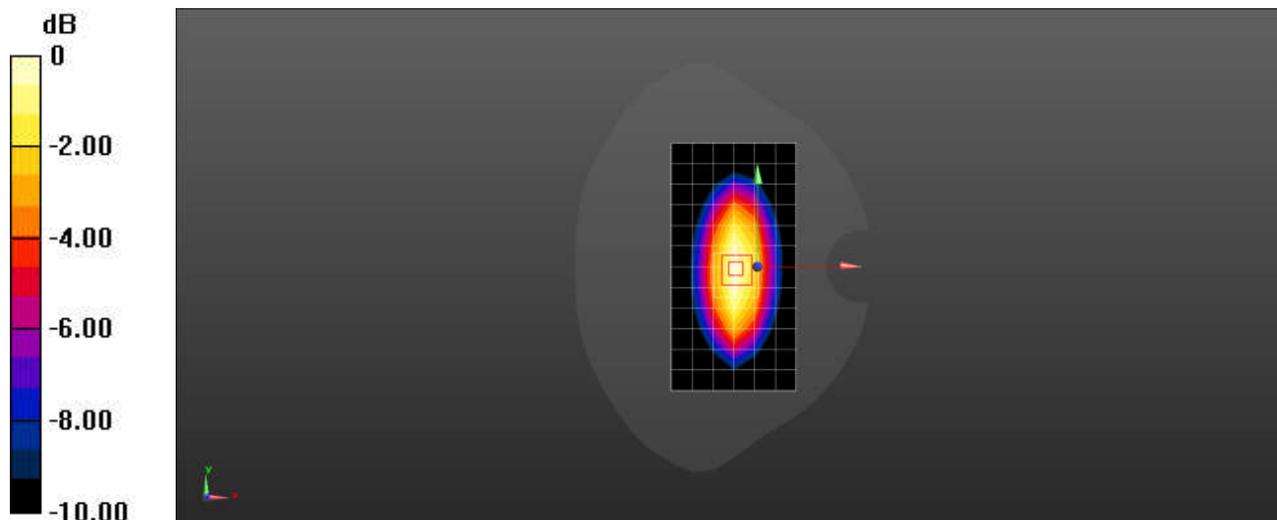
Peak SAR (extrapolated) = 3.46 W/kg

**SAR(1 g) = 2.36 W/kg; SAR(10 g) = 1.53 W/kg**

Smallest distance from peaks to all points 3 dB below = 16 mm

Ratio of SAR at M2 to SAR at M1 = 67.8%

Maximum value of SAR (measured) = 2.97 W/kg



0 dB = 2.97 W/kg = 4.73 dBW/kg

Test Laboratory: SGS-SAR Lab

## System Performance Check 1750 MHz Head

**DUT: D1750V2; Type: Dipole; Serial: 1105**

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

Medium: HSL1750; Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.322$  S/m;  $\epsilon_r = 39.132$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7767; ConvF(8.95, 8.95, 8.95); Calibrated: 2024/12/31
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1484; Calibrated: 2024/10/15
- Phantom: SAM 8; Type: SAM; Serial: 1824
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Body/d=10mm, Pin=250mW/Area Scan (7x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 8.92 W/kg

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

Reference Value = 102.8 V/m; Power Drift = 0.03 dB

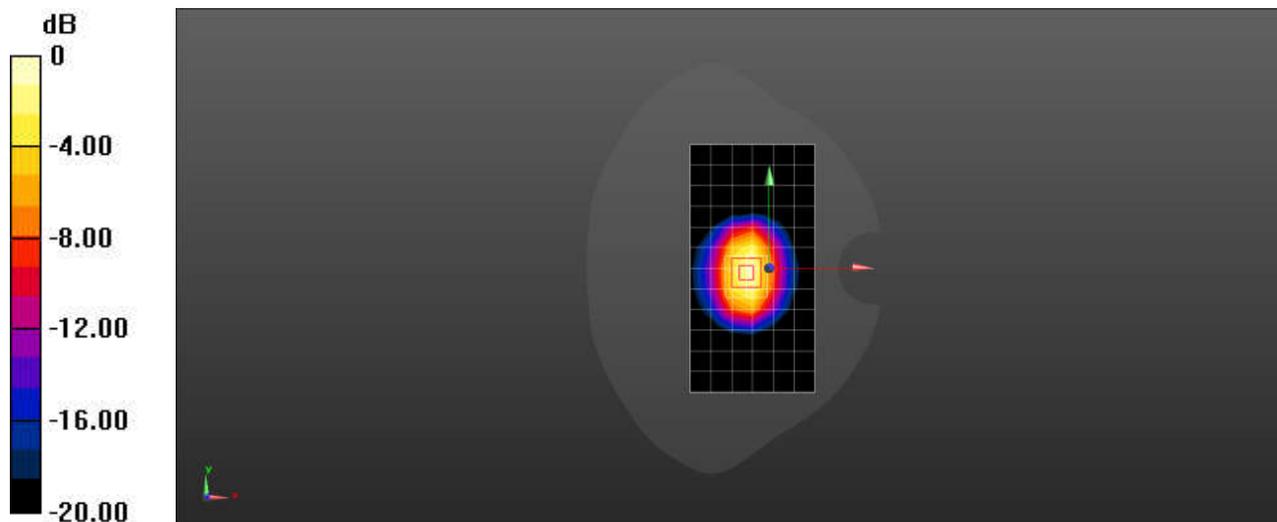
Peak SAR (extrapolated) = 16.2 W/kg

**SAR(1 g) = 8.99 W/kg; SAR(10 g) = 4.81 W/kg**

Smallest distance from peaks to all points 3 dB below = 11 mm

Ratio of SAR at M2 to SAR at M1 = 57.6%

Maximum value of SAR (measured) = 10.1 W/kg



0 dB = 10.1 W/kg = 10.02 dBW/kg

Test Laboratory: SGS-SAR Lab

## System Performance Check 1950 MHz Head

**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;  $\sigma = 1.389$  S/m;  $\epsilon_r = 39.343$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7767; ConvF(8.6, 8.6, 8.6); Calibrated: 2024/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1484; Calibrated: 2024/10/15
- Phantom: SAM 8; Type: SAM; Serial: 1824
- 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) = 14.9 W/kg

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

Reference Value = 100.4 V/m; Power Drift = 0.09 dB

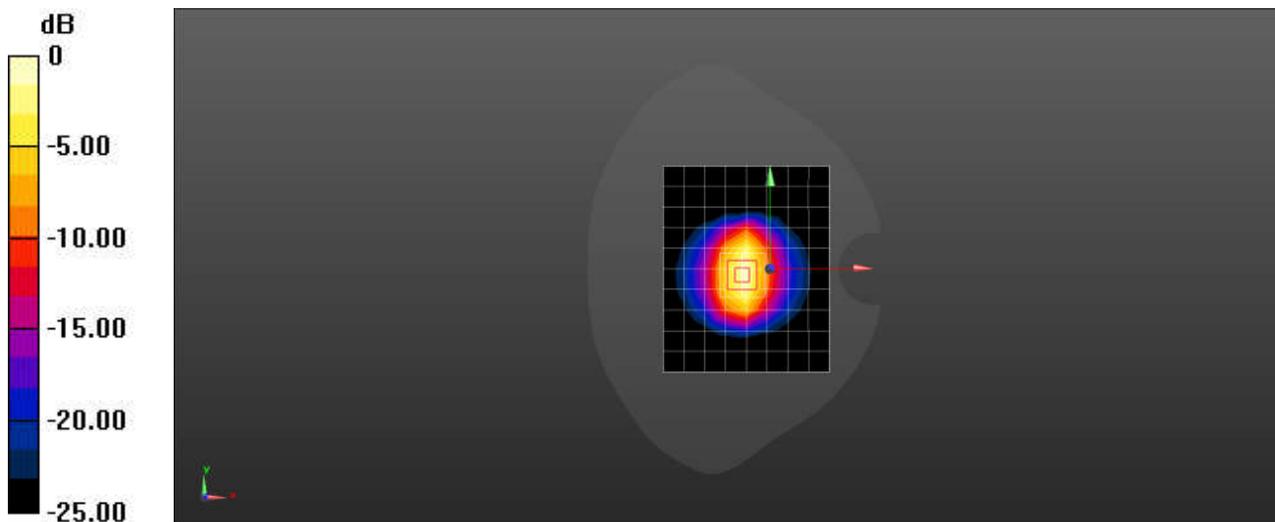
Peak SAR (extrapolated) = 19.2 W/kg

**SAR(1 g) = 10.3 W/kg; SAR(10 g) = 5.31 W/kg**

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 53.6%

Maximum value of SAR (measured) = 16.1 W/kg



0 dB = 16.1 W/kg = 12.07 dBW/kg

Test Laboratory: SGS-SAR Lab

## System Performance Check 2450 MHz Head

**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;  $\sigma = 1.779$  S/m;  $\epsilon_r = 39.142$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7767; ConvF(8.03, 8.03, 8.03); Calibrated: 2024/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1484; Calibrated: 2024/10/15
- Phantom: SAM 8; Type: SAM; Serial: 1824
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Body/d=10mm, Pin=250mW/Area Scan (9x15x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 21.2 W/kg

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

Reference Value = 104.3 V/m; Power Drift = -0.01 dB

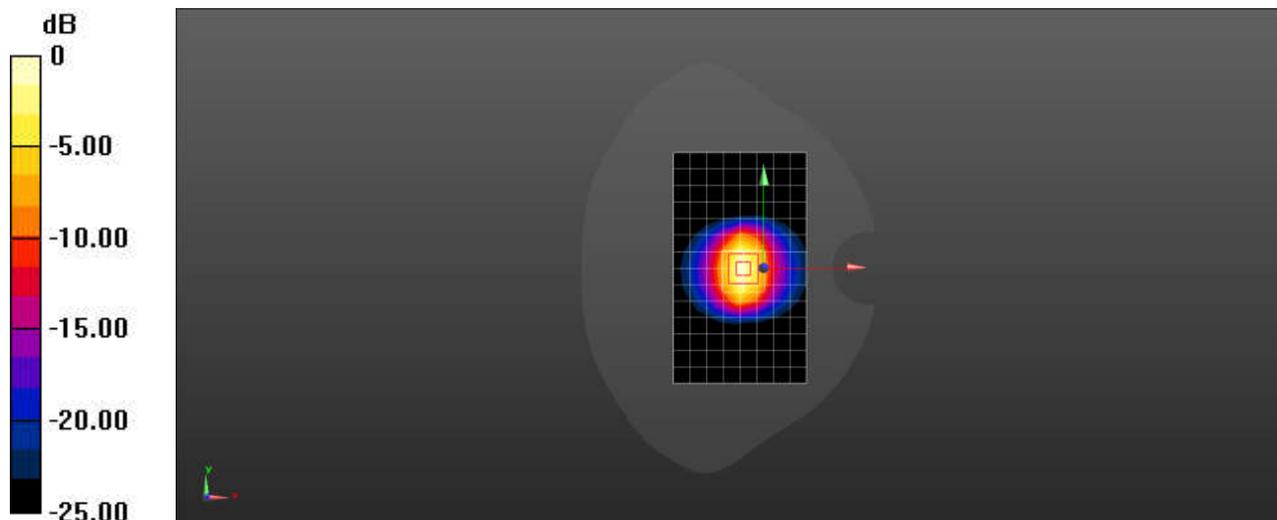
Peak SAR (extrapolated) = 26.5 W/kg

**SAR(1 g) = 13.3 W/kg; SAR(10 g) = 6.24 W/kg**

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 50.7%

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



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

Test Laboratory: SGS-SAR Lab

## System Performance Check 2600 MHz Head

**DUT: D2600V2; Type: Dipole; Serial: 1158**

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

Medium: HSL2600; Medium parameters used:  $f = 2600$  MHz;  $\sigma = 1.973$  S/m;  $\epsilon_r = 38.829$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7767; ConvF(7.85, 7.85, 7.85); Calibrated: 2024/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1484; Calibrated: 2024/10/15
- Phantom: SAM 8; Type: SAM; Serial: 1824
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Body/d=10mm, Pin=250mW/Area Scan (9x15x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 23.1 W/kg

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

Reference Value = 97.63 V/m; Power Drift = -0.12 dB

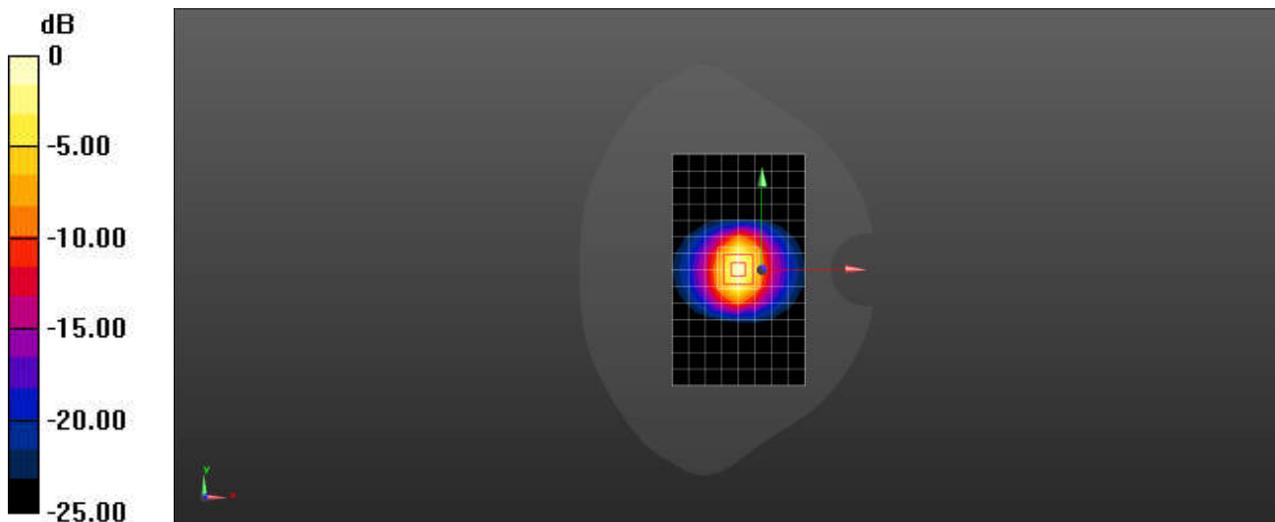
Peak SAR (extrapolated) = 28.4 W/kg

**SAR(1 g) = 13.5 W/kg; SAR(10 g) = 6.06 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.5 mm

Ratio of SAR at M2 to SAR at M1 = 47.8%

Maximum value of SAR (measured) = 22.9 W/kg



0 dB = 22.9 W/kg = 13.61 dBW/kg

Test Laboratory: SGS-SAR Lab

## System Performance Check 5.25 GHz Head

**DUT: D5GHzV2; Type: Dipole; Serial: 1174**

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

Medium: HSL5000; Medium parameters used:  $f = 5250$  MHz;  $\sigma = 4.679$  S/m;  $\epsilon_r = 36.874$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7767; ConvF(5.73, 5.73, 5.73); Calibrated: 2024/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1484; Calibrated: 2024/10/15
- Phantom: SAM 8; Type: SAM; Serial: 1824
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Body/d=10mm, Pin=100mW, f=5250 MHz/Area Scan (8x8x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

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

**Body/d=10mm, Pin=100mW, f=5250 MHz/Zoom Scan (7x7x7)/Cube 0:** Measurement

grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm

Reference Value = 74.18 V/m; Power Drift = 0.08 dB

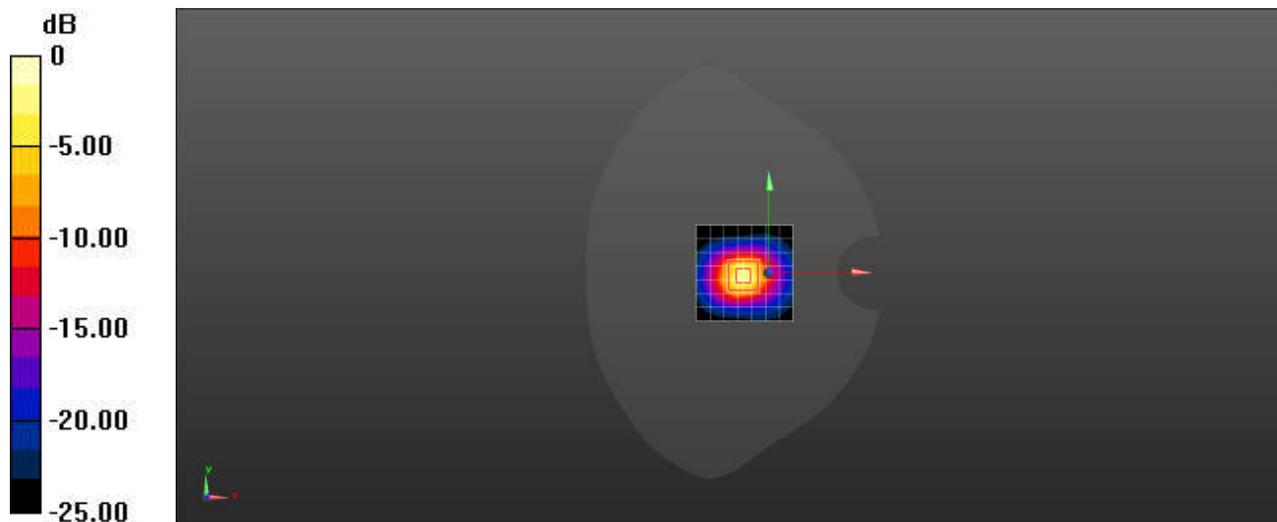
Peak SAR (extrapolated) = 34.1 W/kg

**SAR(1 g) = 7.46 W/kg; SAR(10 g) = 2.15 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.5 mm

Ratio of SAR at M2 to SAR at M1 = 60.5%

Maximum value of SAR (measured) = 20.1 W/kg



0 dB = 20.1 W/kg = 13.03 dBW/kg

Test Laboratory: SGS-SAR Lab

## System Performance Check 5.6 GHz Head

**DUT: D5GHzV2; Type: Dipole; Serial: 1174**

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

Medium: HSL5000; Medium parameters used:  $f = 5600$  MHz;  $\sigma = 5.06$  S/m;  $\epsilon_r = 36.006$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7767; ConvF(5.12, 5.12, 5.12); Calibrated: 2024/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1484; Calibrated: 2024/10/15
- Phantom: SAM 8; Type: SAM; Serial: 1824
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Body/d=10mm, Pin=100mW, f=5250 MHz/Area Scan (8x8x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 19.1 W/kg

**Body/d=10mm, Pin=100mW, f=5250 MHz/Zoom Scan (7x7x7)/Cube 0:** Measurement

grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm

Reference Value = 78.24 V/m; Power Drift = 0.13 dB

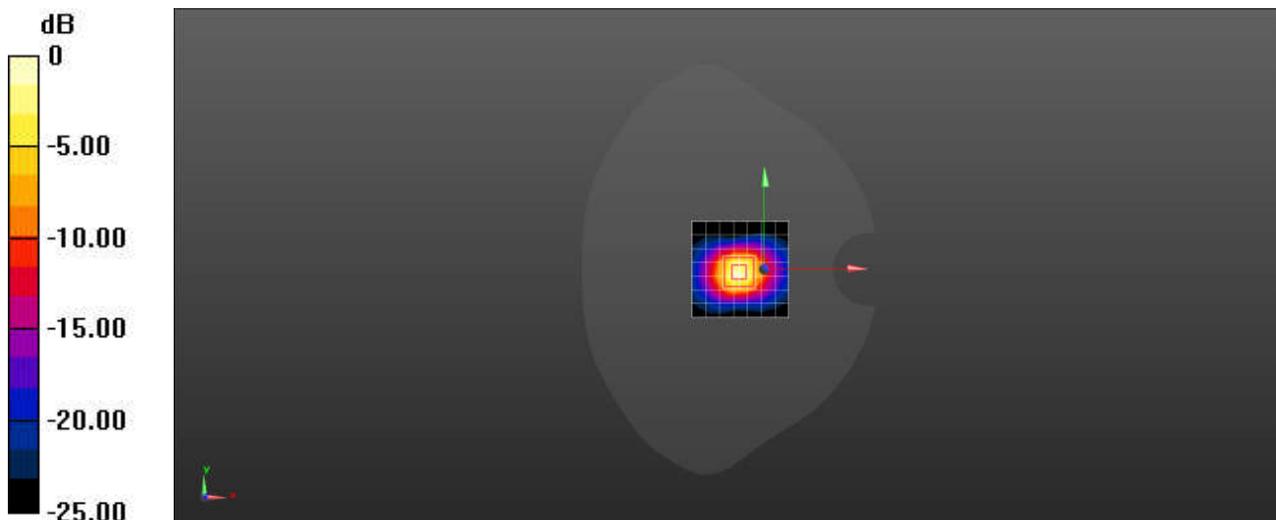
Peak SAR (extrapolated) = 36.2 W/kg

**SAR(1 g) = 7.81 W/kg; SAR(10 g) = 2.24 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.5 mm

Ratio of SAR at M2 to SAR at M1 = 59.9%

Maximum value of SAR (measured) = 21.4 W/kg



0 dB = 21.4 W/kg = 13.31 dBW/kg

Test Laboratory: SGS-SAR Lab

## System Performance Check 5.75 GHz Head

**DUT: D5GHzV2; Type: Dipole; Serial: 1174**

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

Medium: HSL5000; Medium parameters used:  $f = 5750$  MHz;  $\sigma = 5.252$  S/m;  $\epsilon_r = 35.825$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7767; ConvF(5.21, 5.21, 5.21); Calibrated: 2024/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1484; Calibrated: 2024/10/15
- Phantom: SAM 8; Type: SAM; Serial: 1824
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Body/d=10mm, Pin=100mW, f=5750 MHz/Area Scan (8x8x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 16.1 W/kg

**Body/d=10mm, Pin=100mW, f=5750 MHz/Zoom Scan (7x7x7)/Cube 0:** Measurement

grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm

Reference Value = 78.47 V/m; Power Drift = 0.14 dB

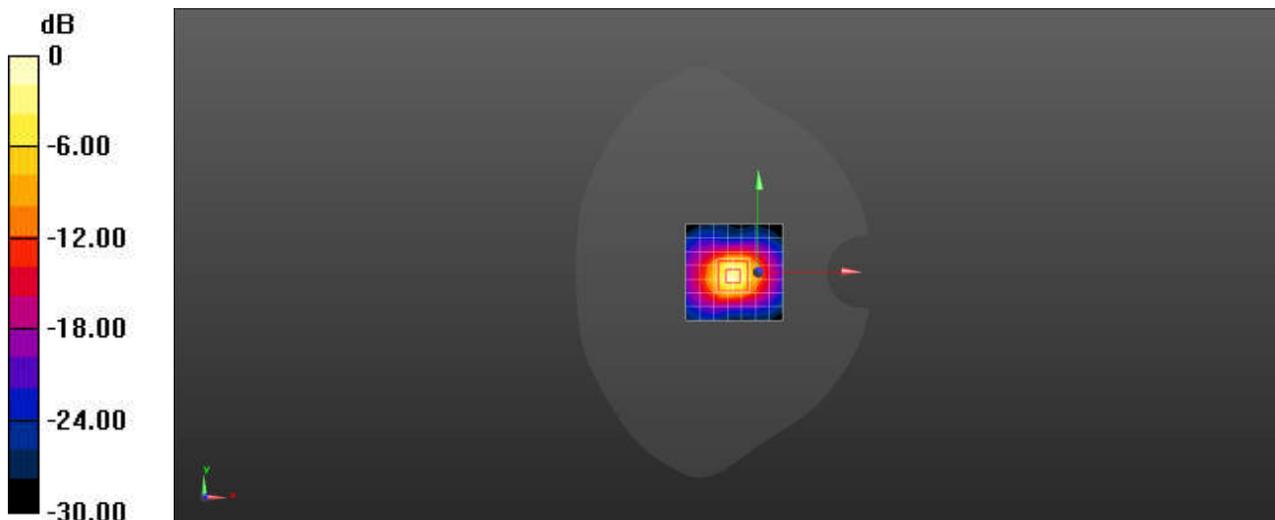
Peak SAR (extrapolated) = 36.9 W/kg

**SAR(1 g) = 7.52 W/kg; SAR(10 g) = 2.14 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.5 mm

Ratio of SAR at M2 to SAR at M1 = 58.6%

Maximum value of SAR (measured) = 21.1 W/kg



0 dB = 21.1 W/kg = 13.25 dBW/kg



**SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.**

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- End of the Appendix -