

Appendix A

Detailed System Check Results

1. System Performance Check
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SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch, China (SGS) Labo. Laboratory.

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Test Laboratory: SGS-SAR Lab

System Performance Check 835MHz Head

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

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

Medium: HSL835;Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.93 \text{ S/m}$; $\epsilon_r = 40.192$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3836; ConvF(9.03, 9.03, 9.03); Calibrated: 2024/9/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn760; Calibrated: 2024/8/15
- Phantom: SAM5; Type: SAM Twin; Serial: 1673
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/d=15mm, Pin=250mW/Area Scan (7x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 3.22 W/kg

Configuration/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 52.44 V/m; Power Drift = -0.03 dB

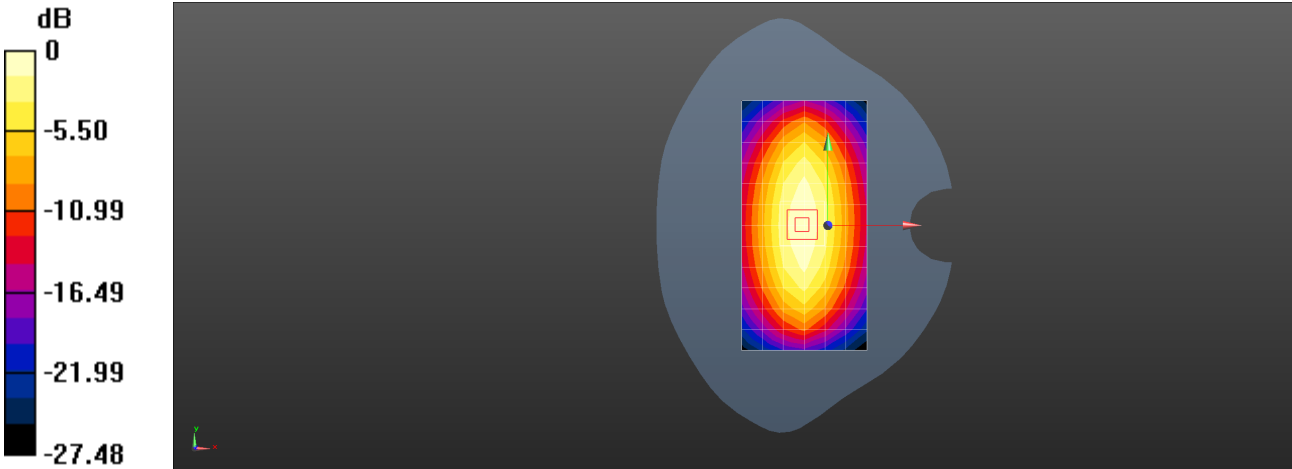
Peak SAR (extrapolated) = 3.69 W/kg

SAR(1 g) = 2.39 W/kg; SAR(10 g) = 1.57 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 64.9%

Maximum value of SAR (measured) = 3.24 W/kg



0 dB = 3.22 W/kg = 5.07 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 1750MHz Head

DUT: D1750V2; Type: Dipole; Serial: 1149

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

Medium: HSL1750;Medium parameters used: $f = 1750\text{ MHz}$; $\sigma = 1.347\text{ S/m}$; $\epsilon_r = 40.799$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3836; ConvF(8.02, 8.02, 8.02); Calibrated: 2024/9/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn760; Calibrated: 2024/8/15
- Phantom: SAM5; Type: SAM Twin; Serial: 1673
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/d=10mm, Pin=250mW/Area Scan (7x9x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 12.8 W/kg

Configuration/d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 83.43 V/m; Power Drift = 0.11 dB

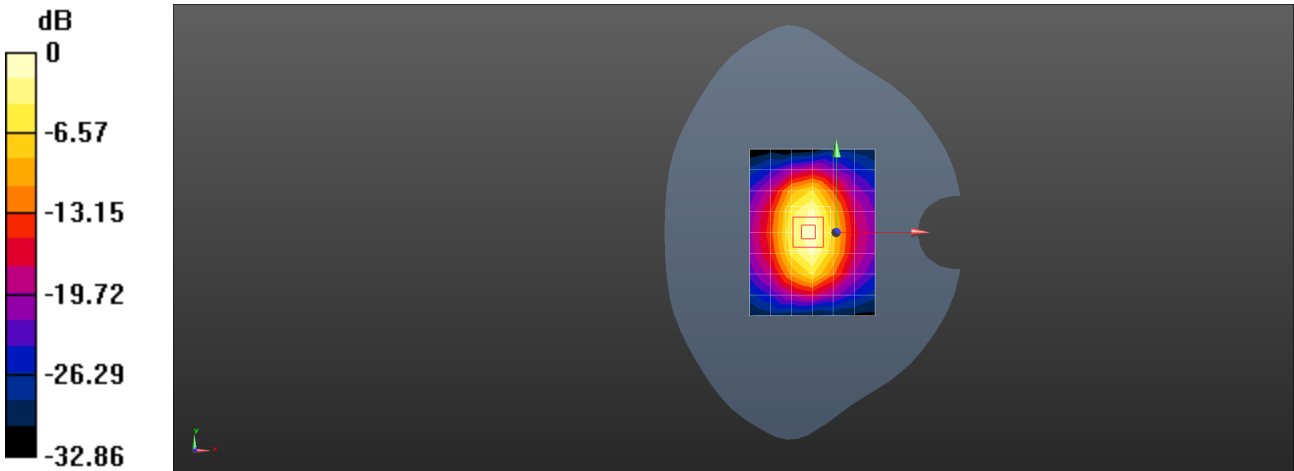
Peak SAR (extrapolated) = 15.9 W/kg

SAR(1 g) = 9.04 W/kg; SAR(10 g) = 5.01 W/kg

Smallest distance from peaks to all points 3 dB below = 11.2 mm

Ratio of SAR at M2 to SAR at M1 = 57.1%

Maximum value of SAR (measured) = 13.5 W/kg



0 dB = 12.8 W/kg = 11.08 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 1950MHz Head

DUT: D1950V3; Type: Dipole; Serial: 1138

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

Medium: HSL1950;Medium parameters used: $f = 1950 \text{ MHz}$; $\sigma = 1.432 \text{ S/m}$; $\epsilon_r = 40.196$; $\rho = 1000 \text{ kg/m}^3$

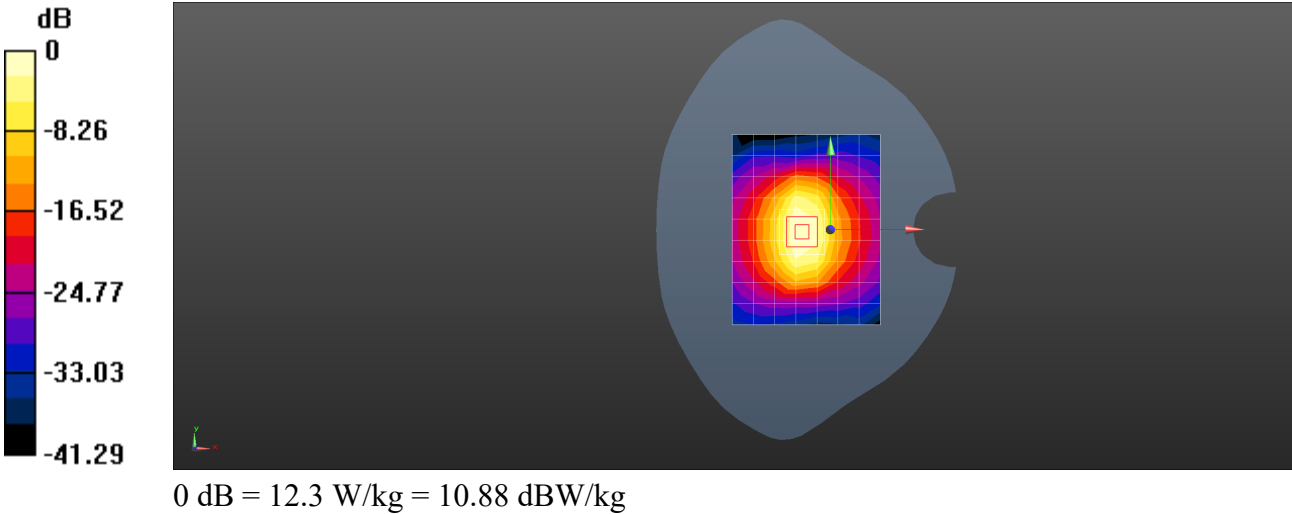
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3836; ConvF(7.69, 7.69, 7.69); Calibrated: 2024/9/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn760; Calibrated: 2024/8/15
- Phantom: SAM5; Type: SAM Twin; Serial: 1673
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/d=10mm, Pin=250mW/Area Scan (8x10x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 12.3 W/kg

Configuration/d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 86.86 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 18.6 W/kg
SAR(1 g) = 10.3 W/kg; SAR(10 g) = 5.49 W/kg
Smallest distance from peaks to all points 3 dB below = 9.6 mm
Ratio of SAR at M2 to SAR at M1 = 54.8%
Maximum value of SAR (measured) = 15.7 W/kg



Test Laboratory: SGS-SAR Lab

System Performance Check 2450MHz Head

DUT: D2450V2; Type: Dipole; Serial: 733

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

Medium: HSL2450;Medium parameters used: $f = 2450\text{ MHz}$; $\sigma = 1.795\text{ S/m}$; $\epsilon_r = 38.477$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3836; ConvF(7.35, 7.35, 7.35); Calibrated: 2024/9/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn760; Calibrated: 2024/8/15
- Phantom: SAM5; Type: SAM Twin; Serial: 1673
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/d=10mm, Pin=250mW/Area Scan (6x10x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$
Maximum value of SAR (measured) = 15.6 W/kg

Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 93.87 V/m; Power Drift = 0.03 dB

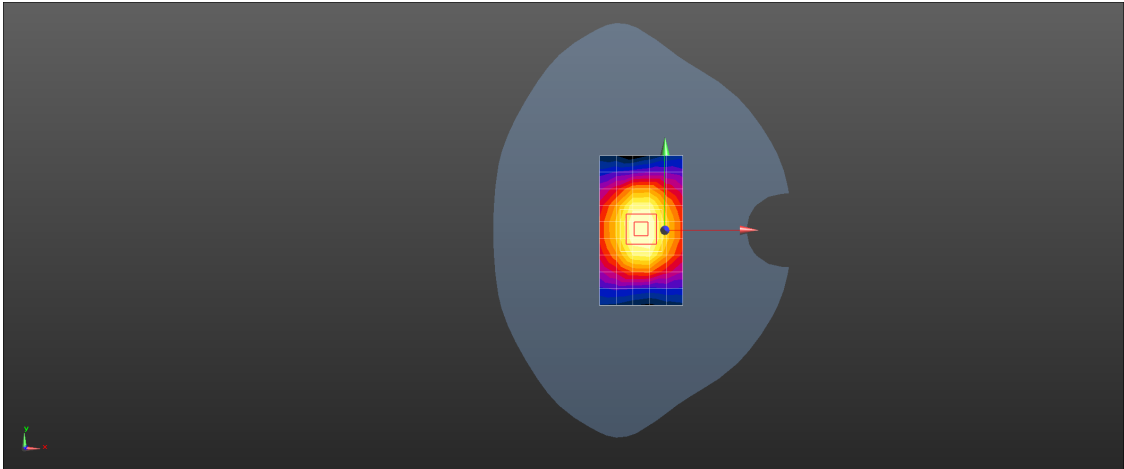
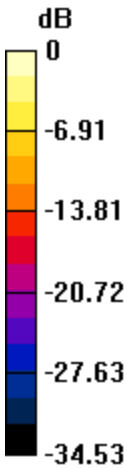
Peak SAR (extrapolated) = 27.8 W/kg

SAR(1 g) = 13.8 W/kg; SAR(10 g) = 6.43 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 50%

Maximum value of SAR (measured) = 22.7 W/kg



0 dB = 15.6 W/kg = 11.93 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 2600MHz Head

DUT: D2600V2; Type: Dipole; Serial: 1125

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

Medium: HSL2600;Medium parameters used: $f = 2600\text{ MHz}$; $\sigma = 1.892\text{ S/m}$; $\epsilon_r = 38.328$; $\rho = 1000\text{ kg/m}^3$

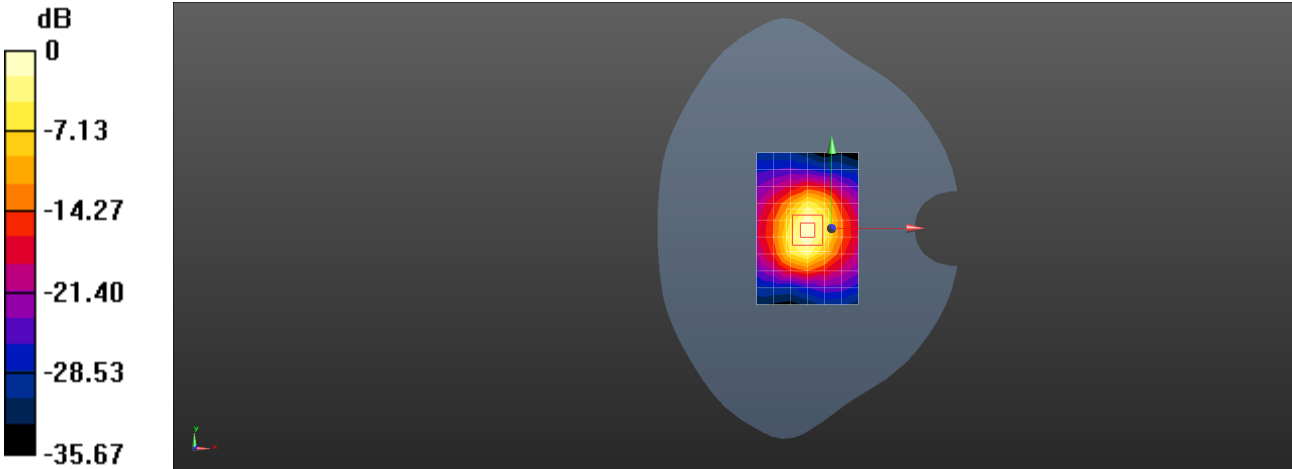
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3836; ConvF(7.18, 7.18, 7.18); Calibrated: 2024/9/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn760; Calibrated: 2024/8/15
- Phantom: SAM5; Type: SAM Twin; Serial: 1673
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/d=10mm, Pin=250mW/Area Scan (7x10x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 23.0 W/kg

Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 94.35 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 27.2 W/kg
SAR(1 g) = 13.7 W/kg; SAR(10 g) = 6.55 W/kg
Smallest distance from peaks to all points 3 dB below = 8.5 mm
Ratio of SAR at M2 to SAR at M1 = 52.4%
Maximum value of SAR (measured) = 22.4 W/kg



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

Test Laboratory: SGS-SAR Lab

System Performance Check 3700MHz Head

DUT: D3700V2; Type: Dipole; Serial: 1046

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

Medium: HSL3700;Medium parameters used: $f = 3700\text{ MHz}$; $\sigma = 3.085\text{ S/m}$; $\epsilon_r = 37.28$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3836; ConvF(6.49, 6.49, 6.49); Calibrated: 2024/9/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn760; Calibrated: 2024/8/15
- Phantom: SAM5; Type: SAM Twin; Serial: 1673
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/d=10mm, Pin=100mW/Area Scan (6x8x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 9.46 W/kg

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

Reference Value = 47.37 V/m; Power Drift = 0.06 dB

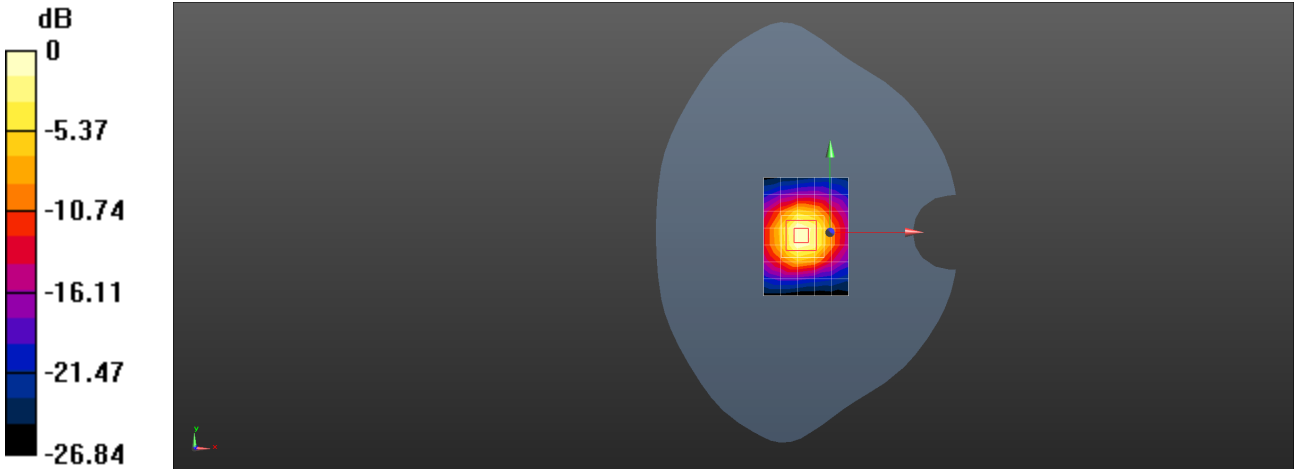
Peak SAR (extrapolated) = 15.4 W/kg

SAR(1 g) = 6.35 W/kg; SAR(10 g) = 2.52 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 40.6%

Maximum value of SAR (measured) = 11.8 W/kg



0 dB = 9.46 W/kg = 9.76 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 3900MHz Head

DUT: D3900V2; Type: Dipole; Serial: 1026

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

Medium: HSL3900;Medium parameters used: $f = 3900\text{ MHz}$; $\sigma = 3.281\text{ S/m}$; $\epsilon_r = 36.514$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Flat Section

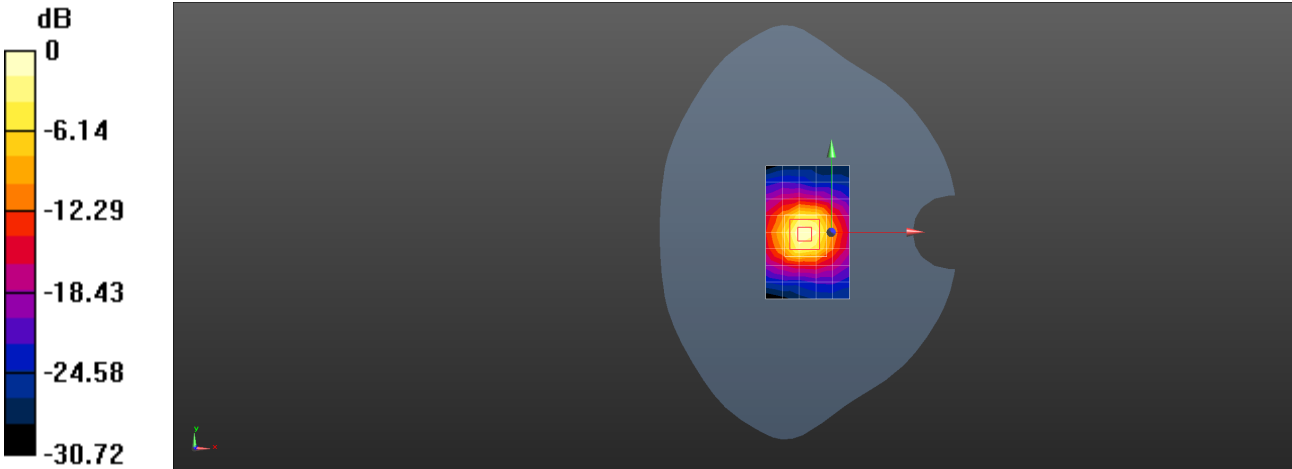
DASY 5 Configuration:

- Probe: EX3DV4 - SN3836; ConvF(6.41, 6.41, 6.41); Calibrated: 2024/9/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn760; Calibrated: 2024/8/15
- Phantom: SAM5; Type: SAM Twin; Serial: 1673
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/d=10mm, Pin=100mW/Area Scan (6x9x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 10.3 W/kg

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

Reference Value = 48.24 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 17.4 W/kg
SAR(1 g) = 6.65 W/kg; SAR(10 g) = 2.41 W/kg
Smallest distance from peaks to all points 3 dB below = 8 mm
Ratio of SAR at M2 to SAR at M1 = 37.8%
Maximum value of SAR (measured) = 12.9 W/kg



0 dB = 10.3 W/kg = 10.13 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 5.25GHz Head

DUT: D5GHzV2; Type: Dipole; Serial: 1165

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

Medium: HSL5G;Medium parameters used: $f = 5250 \text{ MHz}$; $\sigma = 4.864 \text{ S/m}$; $\epsilon_r = 36.912$; $\rho = 1000 \text{ kg/m}^3$

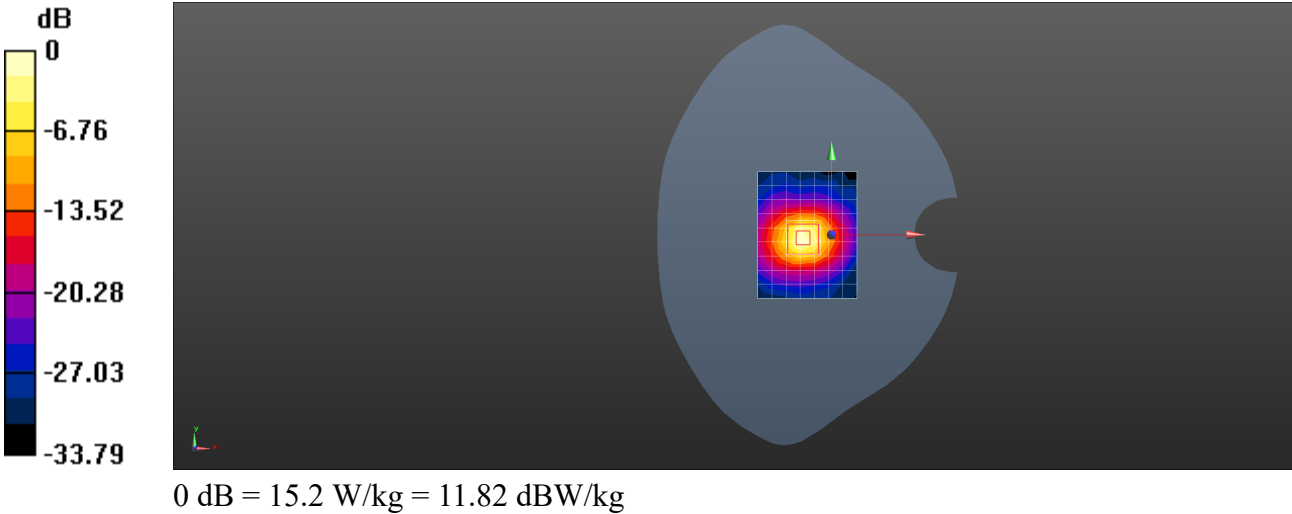
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3836; ConvF(5.22, 5.22, 5.22); Calibrated: 2024/9/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn760; Calibrated: 2024/8/15
- Phantom: SAM5; Type: SAM Twin; Serial: 1673
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/d=10mm, Pin=100mW, f=5250 MHz/Area Scan (8x10x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 15.2 W/kg

Configuration/d=10mm, Pin=100mW, f=5250 MHz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 60.43 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 27.7 W/kg
SAR(1 g) = 7.49 W/kg; SAR(10 g) = 2.18 W/kg
Smallest distance from peaks to all points 3 dB below = 7.2 mm
Ratio of SAR at M2 to SAR at M1 = 57.1%
Maximum value of SAR (measured) = 17.8 W/kg



Test Laboratory: SGS-SAR Lab

System Performance Check 5.6GHz Head

DUT: D5GHzV2; Type: Dipole; Serial: 1165

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

Medium: HSL5G;Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 5.282 \text{ S/m}$; $\epsilon_r = 36.008$; $\rho = 1000 \text{ kg/m}^3$

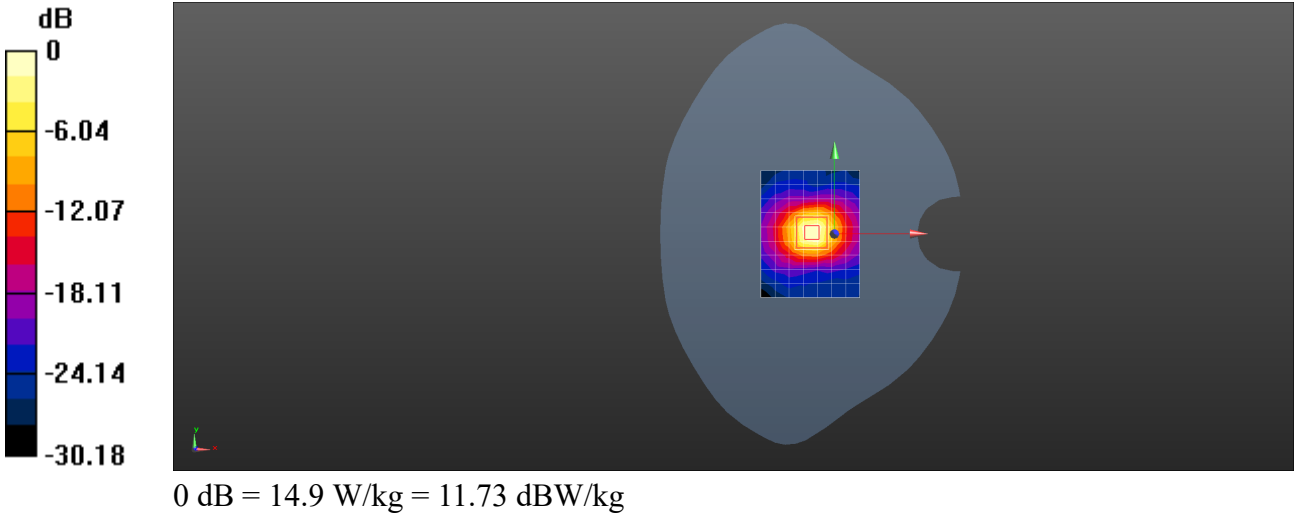
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3836; ConvF(4.67, 4.67, 4.67); Calibrated: 2024/9/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn760; Calibrated: 2024/8/15
- Phantom: SAM5; Type: SAM Twin; Serial: 1673
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/d=10mm, Pin=100mW, f=5600 MHz/Area Scan (8x10x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
Maximum value of SAR (measured) = 14.9 W/kg

Configuration/d=10mm, Pin=100mW, f=5600 MHz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$
Reference Value = 68.93 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 36.1 W/kg
SAR(1 g) = 8.33 W/kg; SAR(10 g) = 2.36 W/kg
Smallest distance from peaks to all points 3 dB below = 7.2 mm
Ratio of SAR at M2 to SAR at M1 = 62.5%
Maximum value of SAR (measured) = 21.9 W/kg



Test Laboratory: SGS-SAR Lab

System Performance Check 5.75GHz Head**DUT: D5GHzV2; Type: Dipole; Serial: 1165**

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

Medium: HSL5G; Medium parameters used: $f = 5750$ MHz; $\sigma = 5.446$ S/m; $\epsilon_r = 35.582$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3836; ConvF(4.82, 4.82, 4.82); Calibrated: 2024/9/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn760; Calibrated: 2024/8/15
- Phantom: SAM5; Type: SAM Twin; Serial: 1673
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

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

Configuration/d=10mm, Pin=100mW, f=5750 MHz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 65.08 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 35.0 W/kg

SAR(1 g) = 7.47 W/kg; SAR(10 g) = 2.15 W/kg

Smallest distance from peaks to all points 3 dB below = 6.8 mm

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

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

