

Appendix A:SAR System performance Check Plots
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Test Laboratory: CTI SAR Lab

Systemcheck 2450-Head**DUT: D2450V2 - SN959; Type: D2450V2; Serial: SN959**

Communication System: UID 0, CW (0); Communication System Band: D2450 (2450.0 MHz); Frequency: 2450 MHz; Communication System PAR: 0 dB; PMF: 1
 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.808$ S/m; $\epsilon_r = 39.654$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(7.65, 7.65, 7.65) @ 2450 MHz; Calibrated: 5/7/2025
 - Modulation Compensation:
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/20/2025
- Phantom: ELI v6.0; Type: QDOVA003AA; Serial: 2024
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Configuration/d=10mm,Pin=100mW/Area Scan (10x10x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 6.28 W/kg

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

Reference Value = 78.32 V/m; Power Drift = -0.03 dB

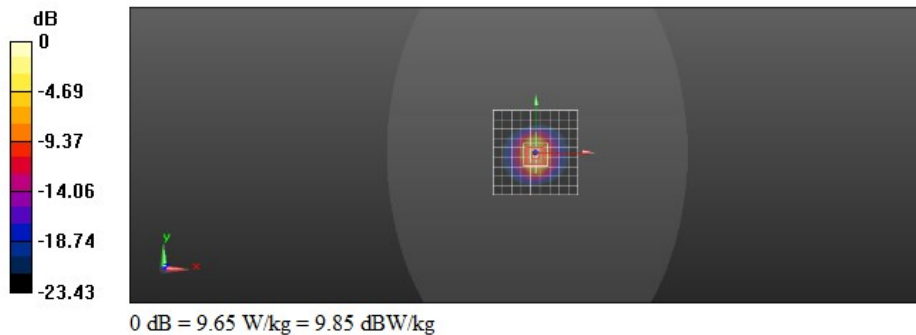
Peak SAR (extrapolated) = 12.3 W/kg

SAR(1 g) = 5.53 W/kg; SAR(10 g) = 2.51 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 44.5%

Maximum value of SAR (measured) = 9.65 W/kg



Test Laboratory: CTI SAR Lab

Systemcheck 5250-Head**DUT: D5GHzV2 - SN1208; Type: D5GHzV2; Serial: SN1208**

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5250 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 5250$ MHz; $\sigma = 4.743$ S/m; $\epsilon_r = 35.559$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(5.37, 5.37, 5.37) @ 5250 MHz; Calibrated: 5/7/2025
 - Modulation Compensation:
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/20/2025
- Phantom: ELI v6.0; Type: QDOVA003AA; Serial: 2024
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Configuration/d=10mm,Pin=100mW/Area Scan (11x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 15.3 W/kg

Configuration/d=10mm,Pin=100mW/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 43.66 V/m; Power Drift = 0.13 dB

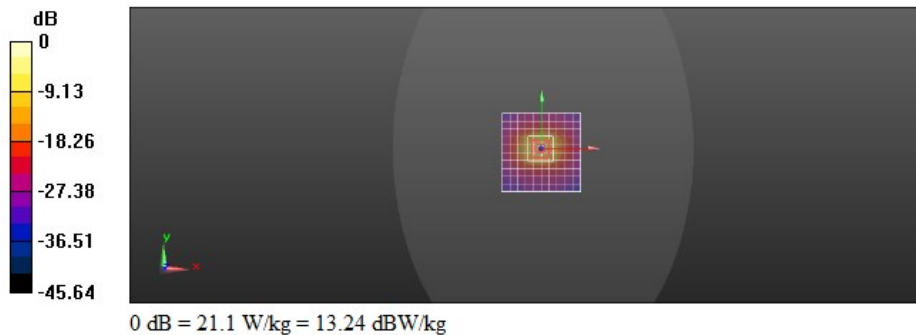
Peak SAR (extrapolated) = 34.0 W/kg

SAR(1 g) = 8.19 W/kg; SAR(10 g) = 2.34 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 52.8%

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



Test Laboratory: CTI SAR Lab

Systemcheck 5250-Head**DUT: D5GHzV2 - SN1208; Type: D5GHzV2; Serial: SN1208**

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5250 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 5250$ MHz; $\sigma = 4.707$ S/m; $\epsilon_r = 35.43$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(5.37, 5.37, 5.37) @ 5250 MHz; Calibrated: 5/7/2025
 - Modulation Compensation:
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/20/2025
- Phantom: ELI v6.0; Type: QDOVA003AA; Serial: 2024
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Configuration/d=10mm,Pin=100mW/Area Scan (11x11x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 14.6 W/kg

Configuration/d=10mm,Pin=100mW/Zoom Scan (9x9x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 40.21 V/m; Power Drift = 0.19 dB

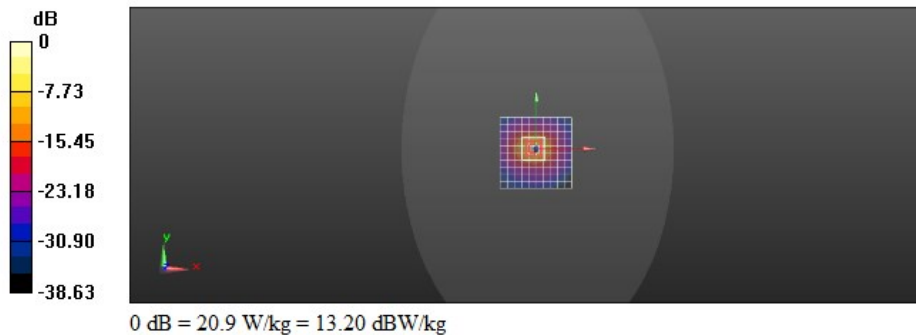
Peak SAR (extrapolated) = 36.1 W/kg

SAR(1 g) = 8.1 W/kg; SAR(10 g) = 2.34 W/kg

Smallest distance from peaks to all points 3 dB below = 7.4 mm

Ratio of SAR at M2 to SAR at M1 = 50.6%

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



Test Laboratory: CTI SAR Lab

Systemcheck 5600-Head**DUT: D5GHzV2 - SN1208; Type: D5GHzV2; Serial: SN1208**

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5600 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 5600$ MHz; $\sigma = 5.146$ S/m; $\epsilon_r = 35.738$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(4.85, 4.85, 4.85) @ 5600 MHz; Calibrated: 5/7/2025
 - Modulation Compensation:
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/20/2025
- Phantom: ELI v6.0; Type: QDOVA003AA; Serial: 2024
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Configuration/d=10mm,Pin=100mW/Area Scan (11x11x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 17.1 W/kg

Configuration/d=10mm,Pin=100mW/Zoom Scan (8x8x16)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 38.28 V/m; Power Drift = -0.14 dB

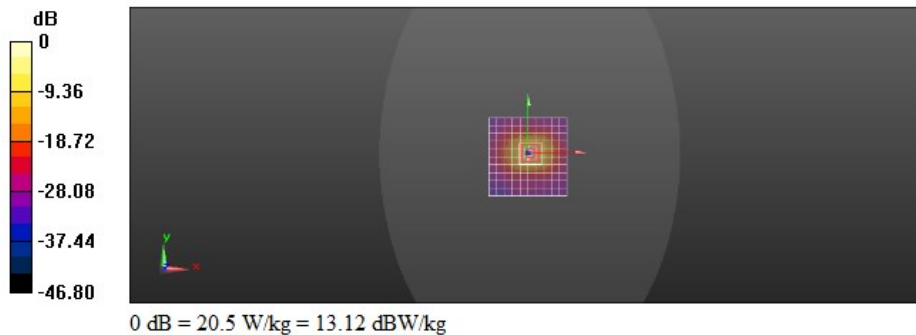
Peak SAR (extrapolated) = 38.9 W/kg

SAR(1 g) = 8.04 W/kg; SAR(10 g) = 2.33 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 47.1%

Maximum value of SAR (measured) = 20.5 W/kg



Test Laboratory: CTI SAR Lab

Systemcheck 5750-Head

DUT: D5GHzV2 - SN1208; Type: D5GHzV2; Serial: SN1208

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5750 MHz;Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 5750 \text{ MHz}$; $\sigma = 5.223 \text{ S/m}$; $\epsilon_r = 34.624$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(4.96, 4.96, 4.96) @ 5750 MHz; Calibrated: 5/7/2025
 - Modulation Compensation:
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/20/2025
- Phantom: ELI v6.0; Type: QDOVA003AA; Serial: 2024
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Configuration/d=10mm,Pin=100mW/Area Scan (11x11x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 18.2 W/kg

Configuration/d=10mm,Pin=100mW/Zoom Scan (8x8x16)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 36.40 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 39.6 W/kg

SAR(1 g) = 7.63 W/kg; SAR(10 g) = 2.13 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 45.3%

Maximum value of SAR (measured) = 20.7 W/kg

