

Appendix B:SAR Measurement results Plots

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Bluetooth

Test Laboratory: CTI SAR Lab

Situational Awareness Earmuffs Bluetooth GFSK 2402CH Back Side 0mm

DUT: Situational Awareness Earmuffs; Type: NA; Serial: NA

Communication System: UID 0, Bluetooth (0); Communication System Band: Bluetooth 3.0; Frequency: 2402 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 2402$ MHz; $\sigma = 1.7$ S/m; $\epsilon_r = 39.531$; $\rho = 1000$ 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) @ 2402 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: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Configuration/Body/Area Scan (10x12x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.0114 W/kg

Configuration/Body/Zoom Scan (7x7x5)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 1.684 V/m; Power Drift = 0.10 dB

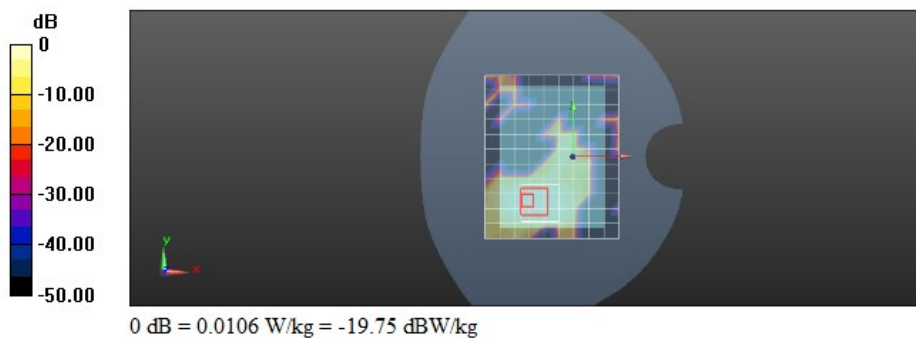
Peak SAR (extrapolated) = 0.0210 W/kg

SAR(1 g) = 0.00539 W/kg; SAR(10 g) = 0.0015 W/kg

Smallest distance from peaks to all points 3 dB below = 6.7 mm

Ratio of SAR at M2 to SAR at M1 = 36.8%

Maximum value of SAR (measured) = 0.0106 W/kg



Test Laboratory: CTI SAR Lab

Situational Awareness Earmuffs Bluetooth GFSK 2402CH Left Hand Touched

DUT: Situational Awareness Earmuffs; Type: NA; Serial: NA

Communication System: UID 0, Bluetooth (0); Communication System Band: Bluetooth 3.0; Frequency: 2402 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 2402$ MHz; $\sigma = 1.7$ S/m; $\epsilon_r = 39.531$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(7.65, 7.65, 7.65) @ 2402 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: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Configuration/Head/Area Scan (10x12x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.00588 W/kg

Configuration/Head/Zoom Scan (7x7x5)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 0.5240 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.0120 W/kg

SAR(1 g) = 0.00275 W/kg; SAR(10 g) = 0.00074 W/kg

Smallest distance from peaks to all points 3 dB below = 5.7 mm

Ratio of SAR at M2 to SAR at M1 = 38.4%

Maximum value of SAR (measured) = 0.00627 W/kg

