

Appendix B:SAR Measurement results Plots

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Test Laboratory: CTI SAR Lab

WIFI 2.4G 802.11b 6CH Top Side 0mm Ant1**DUT: Laptop; Type: NA; Serial: NA**

Communication System: UID 0, WiFi 802.11 a/b/g/n/ac (0); Communication System Band: WiFi; Frequency: 2437 MHz; Communication System PAR: 0 dB; PMF: 1
 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.804$ S/m; $\epsilon_r = 38.724$; $\rho = 1000$ 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) @ 2437 MHz; Calibrated: 5/7/2025
 - Modulation Compensation:
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -2.0, 31.0$
- 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/Body/Area Scan (14x9x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.707 W/kg

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

Reference Value = 8.810 V/m; Power Drift = -0.01 dB

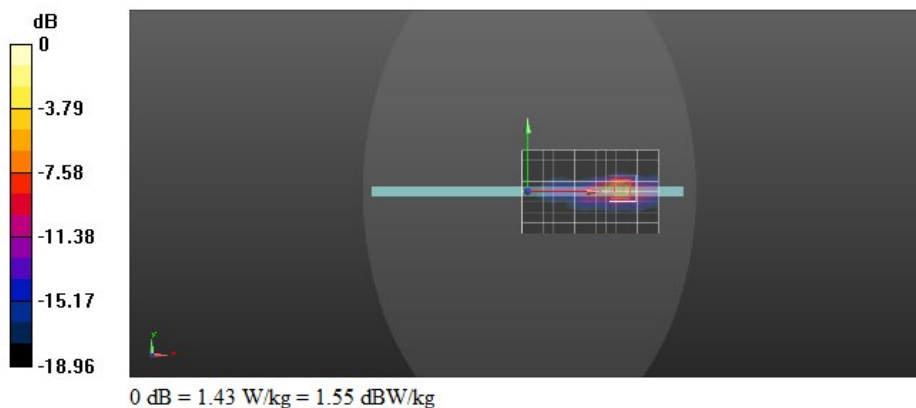
Peak SAR (extrapolated) = 2.30 W/kg

SAR(1 g) = 0.616 W/kg; SAR(10 g) = 0.221 W/kg

Smallest distance from peaks to all points 3 dB below = 6.1 mm

Ratio of SAR at M2 to SAR at M1 = 34.8%

Maximum value of SAR (measured) = 1.43 W/kg



Test Laboratory: CTI SAR Lab

WIFI 2.4G 802.11b 6CH Top Side 0mm Ant2**DUT: Laptop; Type: NA; Serial: NA**

Communication System: UID 0, WiFi 802.11 a/b/g/n/ac (0); Communication System Band: WiFi; Frequency: 2437 MHz; Communication System PAR: 0 dB; PMF: 1
 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.804$ S/m; $\epsilon_r = 38.724$; $\rho = 1000$ 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) @ 2437 MHz; Calibrated: 5/7/2025
 - Modulation Compensation:
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -2.0, 31.0$
- 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/Body/Area Scan (14x9x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.896 W/kg

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

Reference Value = 10.59 V/m; Power Drift = 0.13 dB

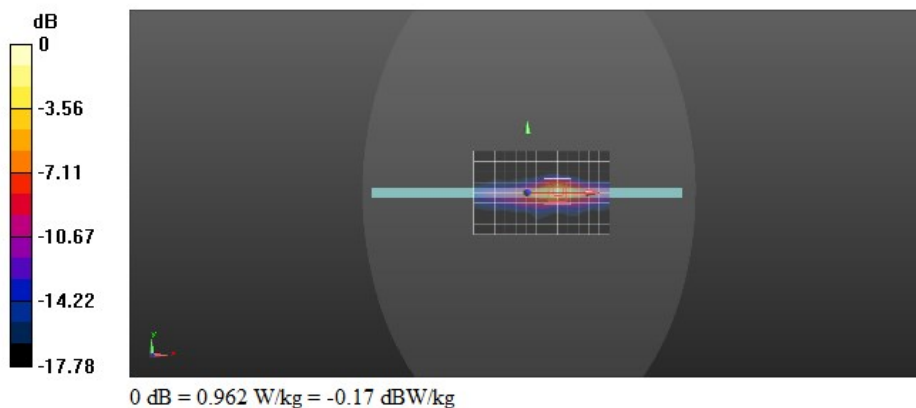
Peak SAR (extrapolated) = 1.40 W/kg

SAR(1 g) = 0.502 W/kg; SAR(10 g) = 0.196 W/kg

Smallest distance from peaks to all points 3 dB below = 5.8 mm

Ratio of SAR at M2 to SAR at M1 = 41.1%

Maximum value of SAR (measured) = 0.962 W/kg



Test Laboratory: CTI SAR Lab

WIFI 5G 802.11a 48CH Top Side 0mm Ant1**DUT: Laptop; Type: NA; Serial: NA**

Communication System: UID 0, WiFi 802.11 a/b/g/n/ac (0); Communication System Band: WiFi 5.2G; Frequency: 5240 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 5240$ MHz; $\sigma = 4.52$ S/m; $\epsilon_r = 35.945$; $\rho = 1000$ 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) @ 5240 MHz; Calibrated: 5/7/2025
 - Modulation Compensation:
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -2.0, 23.0$
- 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/Body/Area Scan (16x9x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 1.23 W/kg

Configuration/Body/Zoom Scan (7x7x6)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 5.113 V/m; Power Drift = 0.07 dB

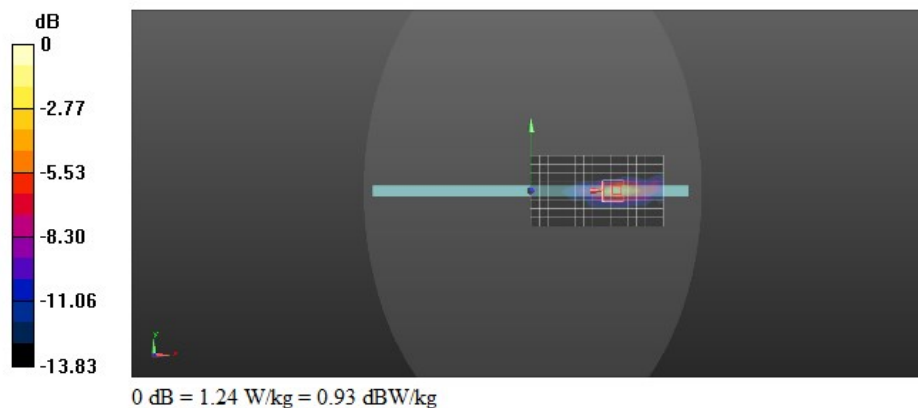
Peak SAR (extrapolated) = 2.32 W/kg

SAR(1 g) = 0.501 W/kg; SAR(10 g) = 0.189 W/kg

Smallest distance from peaks to all points 3 dB below = 4.8 mm

Ratio of SAR at M2 to SAR at M1 = 55.6%

Maximum value of SAR (measured) = 1.24 W/kg



Test Laboratory: CTI SAR Lab

WIFI 5G 802.11a 36CH Top Side 0mm Ant2**DUT: Laptop; Type: NA; Serial: NA**

Communication System: UID 0, WiFi 802.11 a/b/g/n/ac (0); Communication System Band: WiFi 5.2G; Frequency: 5180 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 5180$ MHz; $\sigma = 4.443$ S/m; $\epsilon_r = 36.013$; $\rho = 1000$ 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) @ 5180 MHz; Calibrated: 5/7/2025
 - Modulation Compensation:
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -2.0, 23.0$
- 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/Body/Area Scan (16x9x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 1.49 W/kg

Configuration/Body/Zoom Scan (7x7x6)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 9.786 V/m; Power Drift = 0.03 dB

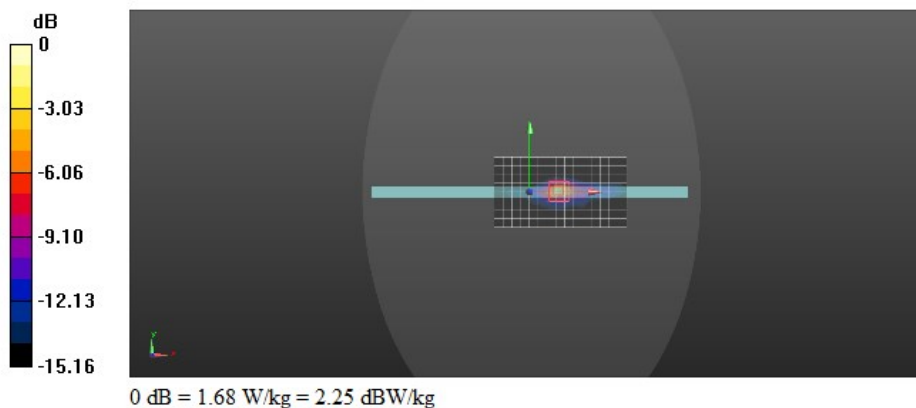
Peak SAR (extrapolated) = 3.21 W/kg

SAR(1 g) = 0.660 W/kg; SAR(10 g) = 0.205 W/kg

Smallest distance from peaks to all points 3 dB below = 4.8 mm

Ratio of SAR at M2 to SAR at M1 = 55%

Maximum value of SAR (measured) = 1.68 W/kg



Test Laboratory: CTI SAR Lab

WIFI 5G 802.11a 52CH Top Side 0mm Ant1**DUT: Laptop; Type: NA; Serial: NA**

Communication System: UID 0, WiFi 802.11 a/b/g/n/ac (0); Communication System Band: WiFi 5.3G; Frequency: 5260 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 5260$ MHz; $\sigma = 4.511$ S/m; $\epsilon_r = 36.276$; $\rho = 1000$ 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) @ 5260 MHz; Calibrated: 5/7/2025
 - Modulation Compensation:
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -2.0, 23.0$
- 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/Body/Area Scan (16x9x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 1.19 W/kg

Configuration/Body/Zoom Scan (7x7x6)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 6.963 V/m; Power Drift = 0.05 dB

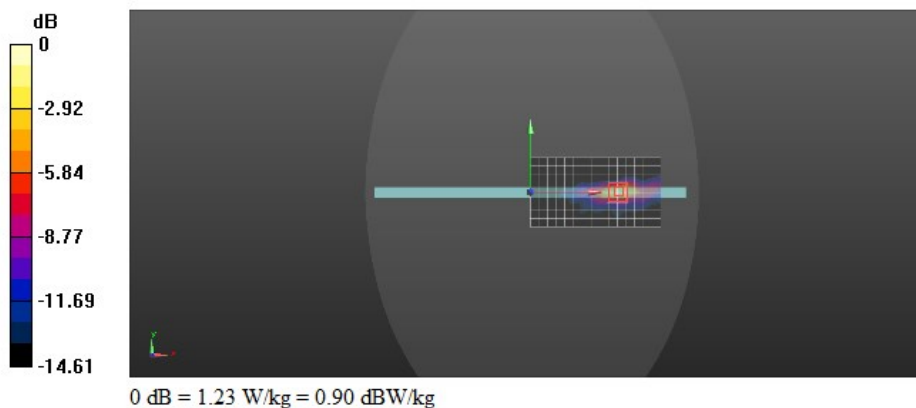
Peak SAR (extrapolated) = 2.34 W/kg

SAR(1 g) = 0.508 W/kg; SAR(10 g) = 0.192 W/kg

Smallest distance from peaks to all points 3 dB below = 5.6 mm

Ratio of SAR at M2 to SAR at M1 = 54.1%

Maximum value of SAR (measured) = 1.23 W/kg



Test Laboratory: CTI SAR Lab

WIFI 5G 802.11a 52CH Top Side 0mm Ant2**DUT: Laptop; Type: NA; Serial: NA**

Communication System: UID 0, WiFi 802.11 a/b/g/n/ac (0); Communication System Band: WiFi 5.3G; Frequency: 5260 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 5260$ MHz; $\sigma = 4.511$ S/m; $\epsilon_r = 36.276$; $\rho = 1000$ 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) @ 5260 MHz; Calibrated: 5/7/2025
 - Modulation Compensation:
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -2.0, 23.0$
- 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/Body/Area Scan (16x9x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 1.63 W/kg

Configuration/Body/Zoom Scan (7x7x6)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 5.428 V/m; Power Drift = 0.04 dB

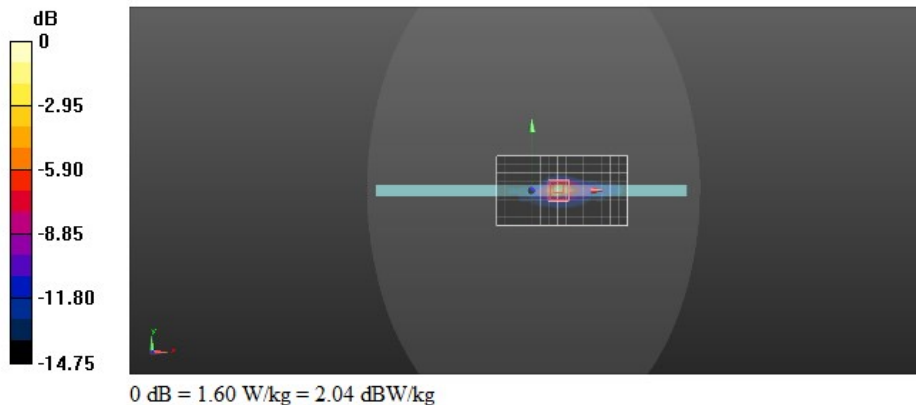
Peak SAR (extrapolated) = 3.26 W/kg

SAR(1 g) = 0.643 W/kg; SAR(10 g) = 0.207 W/kg

Smallest distance from peaks to all points 3 dB below = 4.3 mm

Ratio of SAR at M2 to SAR at M1 = 54.4%

Maximum value of SAR (measured) = 1.60 W/kg



Test Laboratory: CTI SAR Lab

WIFI 5G 802.11a 100CH Top Side 0mm Ant1**DUT: Laptop; Type: NA; Serial: NA**

Communication System: UID 0, WiFi 802.11 a/b/g/n/ac (0); Communication System Band: WiFi 5.5G; Frequency: 5500 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 5500$ MHz; $\sigma = 4.986$ S/m; $\epsilon_r = 36.195$; $\rho = 1000$ 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) @ 5500 MHz; Calibrated: 5/7/2025
 - Modulation Compensation:
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -2.0, 23.0$
- 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/Body/Area Scan (16x9x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 1.25 W/kg

Configuration/Body/Zoom Scan (7x7x6)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 6.566 V/m; Power Drift = 0.06 dB

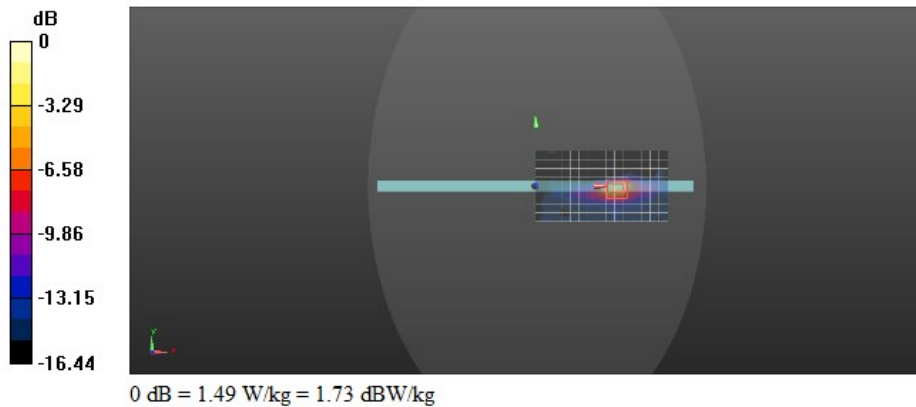
Peak SAR (extrapolated) = 3.08 W/kg

SAR(1 g) = 0.611 W/kg; SAR(10 g) = 0.212 W/kg

Smallest distance from peaks to all points 3 dB below = 4.8 mm

Ratio of SAR at M2 to SAR at M1 = 52.2%

Maximum value of SAR (measured) = 1.49 W/kg



Test Laboratory: CTI SAR Lab

WIFI 5G 802.11a 100CH Top Side 0mm Ant2**DUT: Laptop; Type: NA; Serial: NA**

Communication System: UID 0, WiFi 802.11 a/b/g/n/ac (0); Communication System Band: WiFi 5.5G; Frequency: 5500 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 5500$ MHz; $\sigma = 4.986$ S/m; $\epsilon_r = 36.195$; $\rho = 1000$ 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) @ 5500 MHz; Calibrated: 5/7/2025
 - Modulation Compensation:
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -2.0, 23.0$
- 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/Body/Area Scan (16x9x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 1.02 W/kg

Configuration/Body/Zoom Scan (7x7x6)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 6.051 V/m; Power Drift = -0.17 dB

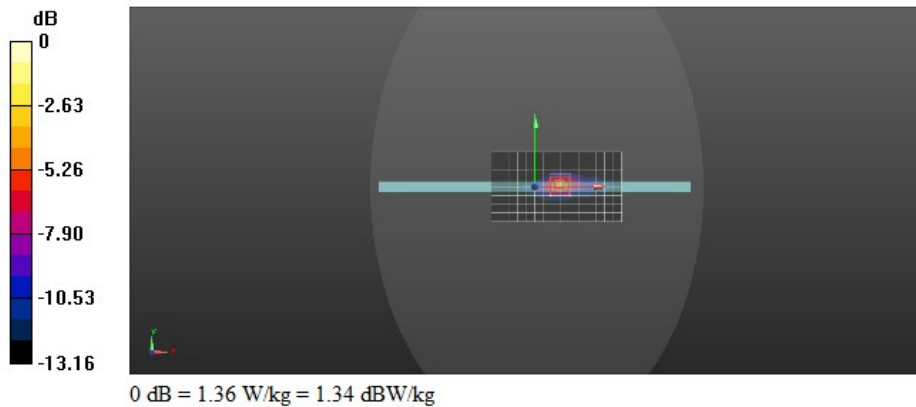
Peak SAR (extrapolated) = 3.05 W/kg

SAR(1 g) = 0.542 W/kg; SAR(10 g) = 0.190 W/kg

Smallest distance from peaks to all points 3 dB below = 4.8 mm

Ratio of SAR at M2 to SAR at M1 = 52.6%

Maximum value of SAR (measured) = 1.36 W/kg



Test Laboratory: CTI SAR Lab

WIFI 5G 802.11a 149CH Top Side 0mm Ant1**DUT: Laptop; Type: NA; Serial: NA**

Communication System: UID 0, WiFi 802.11 a/b/g/n/ac (0); Communication System Band: WiFi 5.8G; Frequency: 5745 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 5745$ MHz; $\sigma = 5.198$ S/m; $\epsilon_r = 35.261$; $\rho = 1000$ kg/m³

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) @ 5745 MHz; Calibrated: 5/7/2025
 - Modulation Compensation:
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -2.0, 23.0$
- 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/Body/Area Scan (15x9x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 1.14 W/kg

Configuration/Body/Zoom Scan (7x7x6)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 6.711 V/m; Power Drift = 0.09 dB

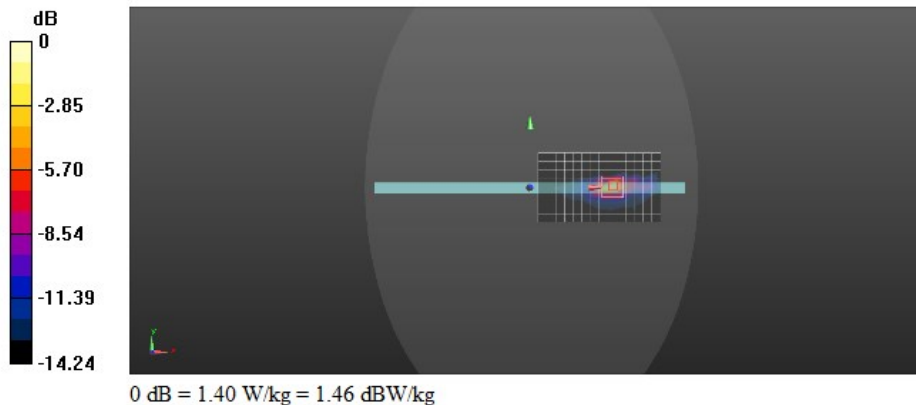
Peak SAR (extrapolated) = 3.35 W/kg

SAR(1 g) = 0.567 W/kg; SAR(10 g) = 0.207 W/kg

Smallest distance from peaks to all points 3 dB below = 4.3 mm

Ratio of SAR at M2 to SAR at M1 = 49.3%

Maximum value of SAR (measured) = 1.40 W/kg



Test Laboratory: CTI SAR Lab

WIFI 5G 802.11a 149CH Top Side 0mm Ant2**DUT: Laptop; Type: NA; Serial: NA**

Communication System: UID 0, WiFi 802.11 a/b/g/n/ac (0); Communication System Band: WiFi 5.8G; Frequency: 5745 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 5745$ MHz; $\sigma = 5.198$ S/m; $\epsilon_r = 35.261$; $\rho = 1000$ kg/m³

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) @ 5745 MHz; Calibrated: 5/7/2025
 - Modulation Compensation:
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -2.0, 23.0$
- 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/Body/Area Scan (15x9x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 1.44 W/kg

Configuration/Body/Zoom Scan (7x7x6)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 5.140 V/m; Power Drift = 0.08 dB

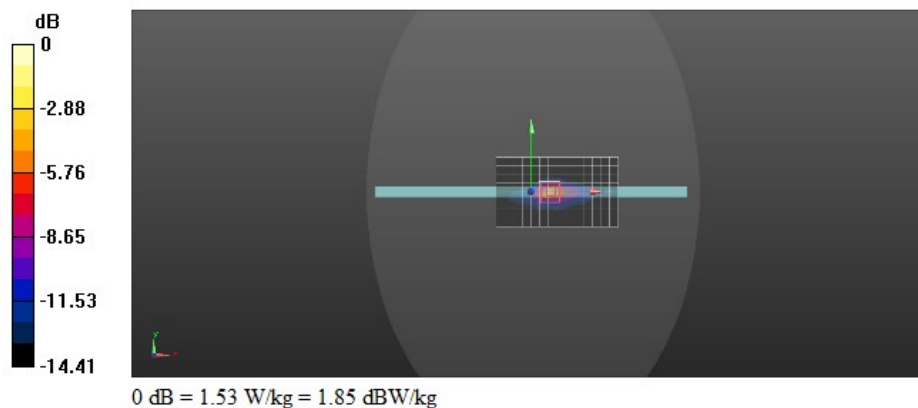
Peak SAR (extrapolated) = 3.37 W/kg

SAR(1 g) = 0.563 W/kg; SAR(10 g) = 0.186 W/kg

Smallest distance from peaks to all points 3 dB below = 5.2 mm

Ratio of SAR at M2 to SAR at M1 = 51.4%

Maximum value of SAR (measured) = 1.53 W/kg



Test Laboratory: CTI SAR Lab

Bluetooth GFSK 2480CH Top Side 0mm Ant1**DUT: Laptop; Type: NA; Serial: NA**

Communication System: UID 0, Bluetooth (0); Communication System Band: Bluetooth 3.0; Frequency: 2480 MHz; Communication System PAR: 0 dB; PMF: 1
 Medium parameters used: $f = 2480$ MHz; $\sigma = 1.855$ S/m; $\epsilon_r = 38.586$; $\rho = 1000$ 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) @ 2480 MHz; Calibrated: 5/7/2025
 - Modulation Compensation:
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -2.0, 31.0$
- 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/Body/Area Scan (14x8x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.323 W/kg

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

Reference Value = 7.596 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.541 W/kg

SAR(1 g) = 0.153 W/kg; SAR(10 g) = 0.064 W/kg

Smallest distance from peaks to all points 3 dB below = 6.1 mm

Ratio of SAR at M2 to SAR at M1 = 35.3%

Maximum value of SAR (measured) = 0.353 W/kg

