

Appendix B:SAR Measurement results Plots

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Test Laboratory: CTI SAR Lab

WiFi 802.11b 6CH Front Side 0mm Ant1

DUT: iSmartEV P01; Type: NA; Serial: NA

Communication System: UID 0, WiFi 802.11 a/b/g/n/ac (0); Communication System Band: WiFi; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.759$ S/m; $\epsilon_r = 38.331$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(7.56, 7.56, 7.56); Calibrated: 2/27/2022;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/4/2022
- Phantom: ELI v6.0; Type: QDOVA003AA; Serial: 2024
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (8x12x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.227 W/kg

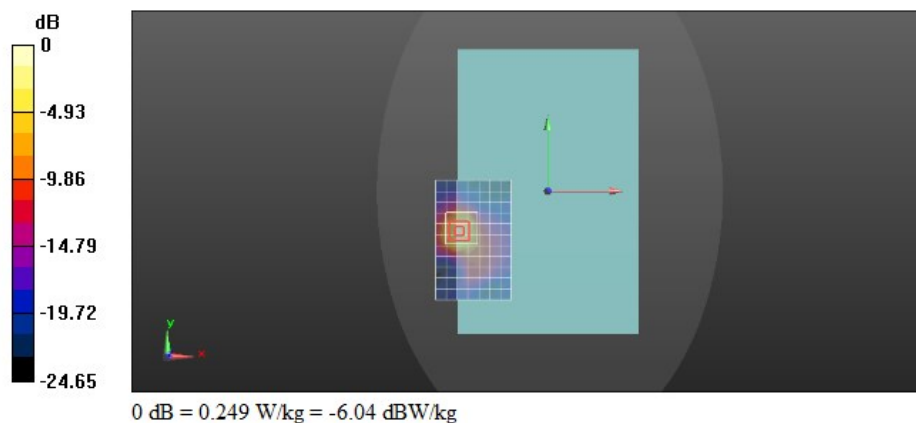
Configuration/Body/Zoom Scan (8x8x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 0.7570 V/m; Power Drift = 0.31 dB

Peak SAR (extrapolated) = 0.308 W/kg

SAR(1 g) = 0.150 W/kg; SAR(10 g) = 0.067 W/kg

Maximum value of SAR (measured) = 0.249 W/kg



Test Laboratory: CTI SAR Lab

WiFi 802.11b 11CH Bottom Side 0mm Ant2**DUT: iSmartEV P01; Type: NA; Serial: NA**

Communication System: UID 0, WiFi 802.11 a/b/g/n/ac (0); Communication System Band: WiFi; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.825$ S/m; $\epsilon_r = 38.993$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(7.56, 7.56, 7.56); Calibrated: 2/27/2022;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/4/2022
- Phantom: ELI v6.0; Type: QDOVA003AA; Serial: 2024
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (8x12x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.615 W/kg

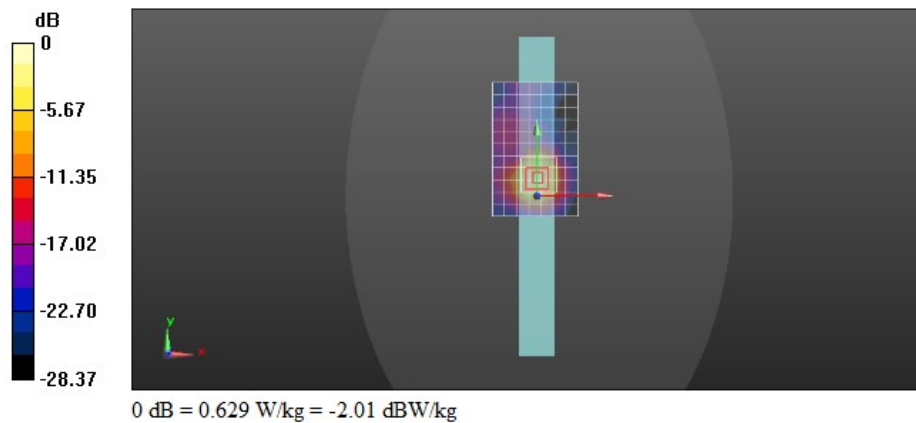
Configuration/Body/Zoom Scan (8x8x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 10.66 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.808 W/kg

SAR(1 g) = 0.397 W/kg; SAR(10 g) = 0.178 W/kg

Maximum value of SAR (measured) = 0.629 W/kg



Test Laboratory: CTI SAR Lab

WiFi 802.11a 48CH Top Side 0mm Ant1

DUT: iSmartEV P01; 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; Duty Cycle: 1:1

Medium parameters used: $f = 5240$ MHz; $\sigma = 4.907$ S/m; $\epsilon_r = 35.542$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(5.48, 5.48, 5.48); Calibrated: 2/27/2022;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/4/2022
- Phantom: ELI v6.0; Type: QDOVA003AA; Serial: 2024
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (8x12x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 1.39 W/kg

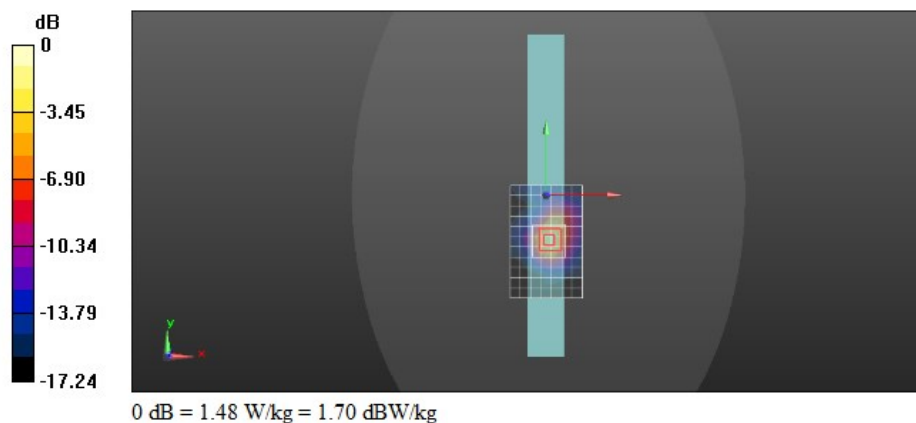
Configuration/Body/Zoom Scan (9x9x16)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 4.001 V/m; Power Drift = 1.15 dB

Peak SAR (extrapolated) = 2.34 W/kg

SAR(1 g) = 0.651 W/kg; SAR(10 g) = 0.240 W/kg

Maximum value of SAR (measured) = 1.48 W/kg



Test Laboratory: CTI SAR Lab

WiFi 802.11a 40CH Bottom Side 0mm Ant2

DUT: iSmartEV P01; Type: NA; Serial: NA

Communication System: UID 0, WiFi 802.11 a/b/g/n/ac (0); Communication System Band: WiFi 5.2G; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5200$ MHz; $\sigma = 4.495$ S/m; $\epsilon_r = 34.736$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(5.48, 5.48, 5.48); Calibrated: 2/27/2022;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/4/2022
- Phantom: ELI v6.0; Type: QDOVA003AA; Serial: 2024
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (8x12x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 1.50 W/kg

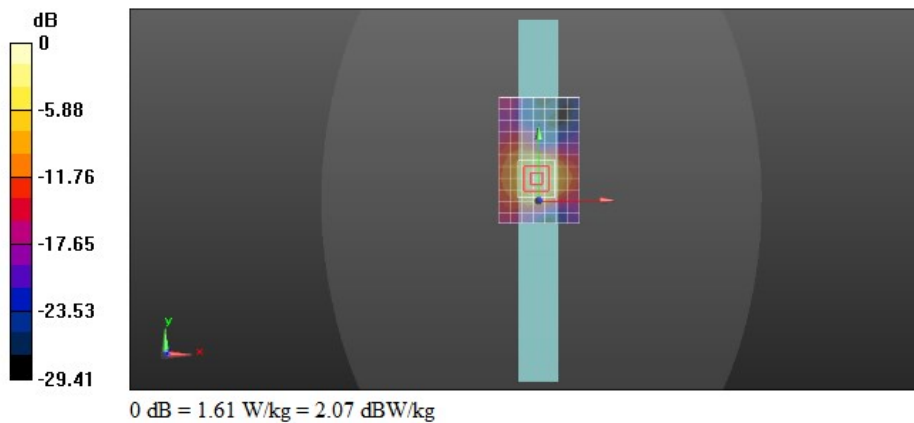
Configuration/Body/Zoom Scan (9x9x16)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 7.872 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 2.58 W/kg

SAR(1 g) = 0.711 W/kg; SAR(10 g) = 0.263 W/kg

Maximum value of SAR (measured) = 1.61 W/kg



Test Laboratory: CTI SAR Lab

WiFi 802.11a 149CH Front Side 0mm Ant1**DUT: iSmartEV P01; 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; Duty Cycle: 1:1

Medium parameters used: $f = 5745$ MHz; $\sigma = 5.198$ S/m; $\epsilon_r = 34.535$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(4.95, 4.95, 4.95); Calibrated: 2/27/2022;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/4/2022
- Phantom: ELI v6.0; Type: QDOVA003AA; Serial: 2024
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (8x12x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.789 W/kg

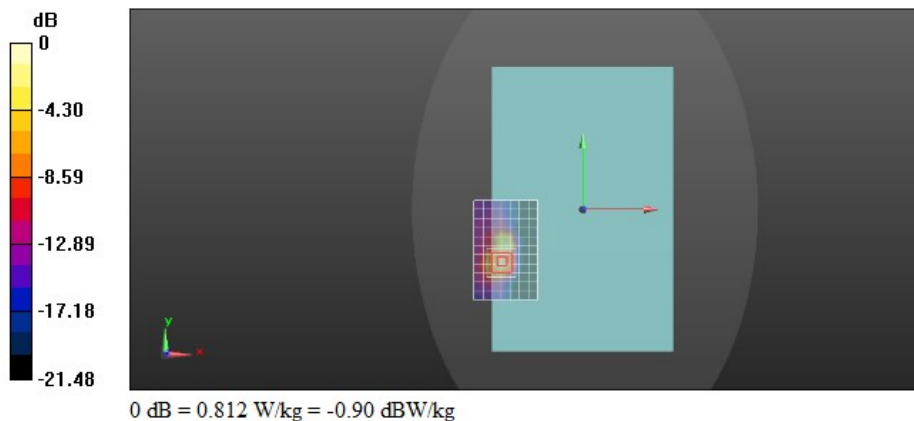
Configuration/Body/Zoom Scan (9x9x16)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 1.854 V/m; Power Drift = 0.42 dB

Peak SAR (extrapolated) = 1.39 W/kg

SAR(1 g) = 0.347 W/kg; SAR(10 g) = 0.118 W/kg

Maximum value of SAR (measured) = 0.812 W/kg



Test Laboratory: CTI SAR Lab

WiFi 802.11a 165CH Bottom Side 0mm Ant2

DUT: iSmartEV P01; Type: NA; Serial: NA

Communication System: UID 0, WiFi 802.11 a/b/g/n/ac (0); Communication System Band: WiFi 5.8G; Frequency: 5825 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5825$ MHz; $\sigma = 5.425$ S/m; $\epsilon_r = 34.273$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(4.95, 4.95, 4.95); Calibrated: 2/27/2022;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/4/2022
- Phantom: ELI v6.0; Type: QDOVA003AA; Serial: 2024
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (8x12x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 1.98 W/kg

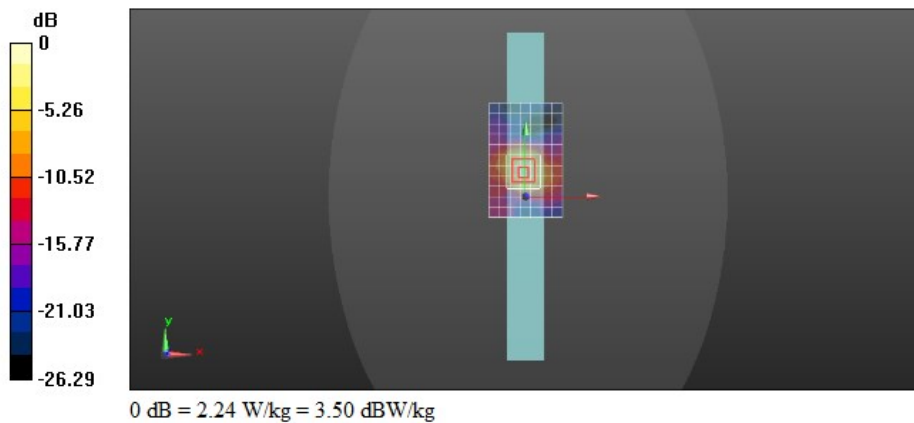
Configuration/Body/Zoom Scan (9x9x16)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 4.465 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 3.77 W/kg

SAR(1 g) = 0.953 W/kg; SAR(10 g) = 0.346 W/kg

Maximum value of SAR (measured) = 2.24 W/kg



Test Laboratory: CTI SAR Lab

WiFi 802.11a 165CH Bottom Side 0mm Ant2 Repeated**DUT: iSmartEV P01; Type: NA; Serial: NA**

Communication System: UID 0, WiFi 802.11 a/b/g/n/ac (0); Communication System Band: WiFi 5.8G; Frequency: 5825 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5825$ MHz; $\sigma = 5.425$ S/m; $\epsilon_r = 34.273$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(4.95, 4.95, 4.95); Calibrated: 2/27/2022;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/4/2022
- Phantom: ELI v6.0; Type: QDOVA003AA; Serial: 2024
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (8x12x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 2.03 W/kg

Configuration/Body/Zoom Scan (9x9x16)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 4.596 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 3.87 W/kg

SAR(1 g) = 0.965 W/kg; SAR(10 g) = 0.349 W/kg

Maximum value of SAR (measured) = 2.26 W/kg

