

Appendix B:SAR Measurement results Plots

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GSM850-Body
GSM1900-Body

Test Laboratory: CTI SAR Lab

Bikefinder Tracker GSM850 GPRS 2TS 128CH Position 1 0mm

DUT: Bikefinder Tracker; Type: BFG1T; Serial: NA

Communication System: UID 0, GPRS 2TS (0); Communication System Band: GSM850 GPRS 2TS; Frequency: 824.2 MHz; Duty Cycle: 1:4.10015

Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.878$ S/m; $\epsilon_r = 41.827$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(10, 10, 10); 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 (6x17x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 3.35 W/kg

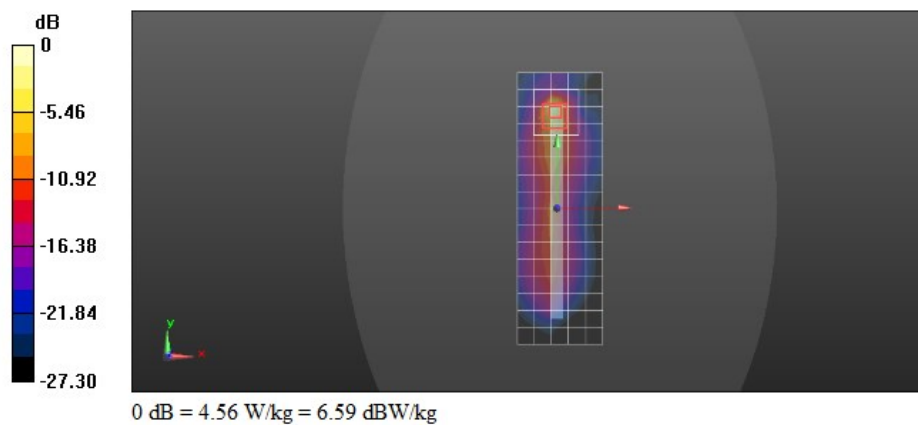
Configuration/Body/Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 18.93 V/m; Power Drift = -0.22 dB

Peak SAR (extrapolated) = 12.9 W/kg

SAR(1 g) = 2.02 W/kg; SAR(10 g) = 0.541 W/kg

Maximum value of SAR (measured) = 4.56 W/kg



Test Laboratory: CTI SAR Lab

Bikefinder Tracker GSM850 GPRS 2TS 128CH Position 1 0mm Repeated

DUT: Bikefinder Tracker; Type: BFG1T; Serial: NA

Communication System: UID 0, GPRS 2TS (0); Communication System Band: GSM850 GPRS 2TS; Frequency: 824.2 MHz; Duty Cycle: 1:4.10015

Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.878$ S/m; $\epsilon_r = 41.827$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(10, 10, 10); 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 (6x17x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 3.55 W/kg

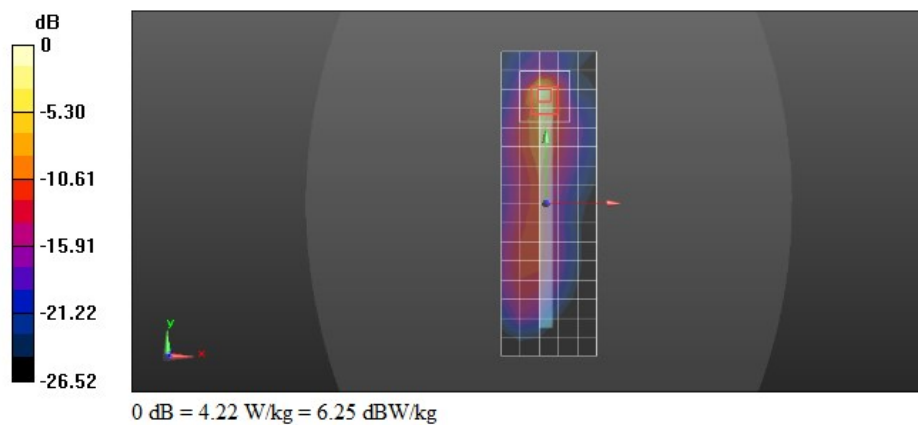
Configuration/Body/Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 14.50 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 13.5 W/kg

SAR(1 g) = 2.07 W/kg; SAR(10 g) = 0.554 W/kg

Maximum value of SAR (measured) = 4.22 W/kg



Test Laboratory: CTI SAR Lab

Bikefinder Tracker GSM1900 GPRS 4TS 512CH Position 1 0mm

DUT: Bikefinder Tracker; Type: BFG1T; Serial: NA

Communication System: UID 0, GPRS 4TS (0); Communication System Band: GSM1900 GPRS 4TS; Frequency: 1850.2 MHz; Duty Cycle: 1:2.0797

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.351$ S/m; $\epsilon_r = 38.379$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.1, 8.1, 8.1); 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 (6x17x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

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

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 6.17 W/kg

SAR(1 g) = 0.927 W/kg; SAR(10 g) = 0.282 W/kg

Maximum value of SAR (measured) = 2.81 W/kg

