

Appendix B

Detailed Test Results

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LTE Band 26 for Head & Body Worn & Hotspot
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WiFi2.4G for Head & Body Worn & Hotspot

Date: 2019-06-24

Test Laboratory: Compliance Certification Services Inc.

GSM850_GSM Ch190 Right Cheek

DUT: Multi-Mode Advanced Radio; Type: PDC680 FxB1; Serial: 0607RD1450

Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 837$ MHz; $\sigma = 0.888$ S/m; $\epsilon_r = 40.83$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(9.46, 9.46, 9.46); Calibrated: 2019-05-24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2019-05-21
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (7x12x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.110 W/kg

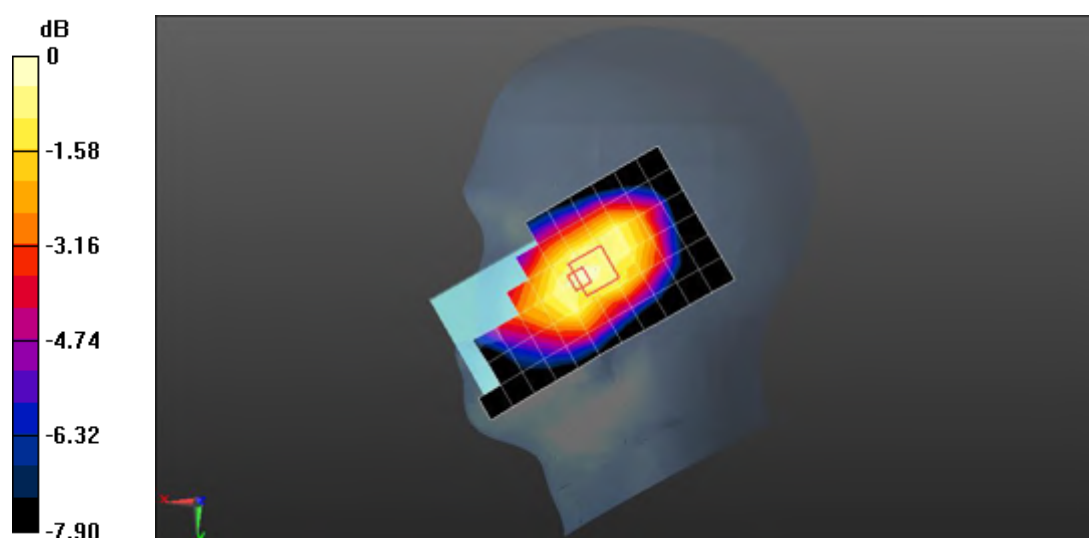
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 8.313 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.125 W/kg

SAR(1 g) = 0.096 W/kg; SAR(10 g) = 0.077 W/kg

Maximum value of SAR (measured) = 0.114 W/kg



0 dB = 0.114 W/kg = -9.43 dBW/kg

Date: 2019-06-24

Test Laboratory: Compliance Certification Services Inc.

GSM850_GSM Ch190 Back side 15mm

DUT: Multi-Mode Advanced Radio; Type: PDC680 FxB1; Serial: 0607RD1450

Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 837$ MHz; $\sigma = 1.013$ S/m; $\epsilon_r = 54.415$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(9.33, 9.33, 9.33); Calibrated: 2019-05-24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2019-05-21
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (7x12x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.0706 W/kg

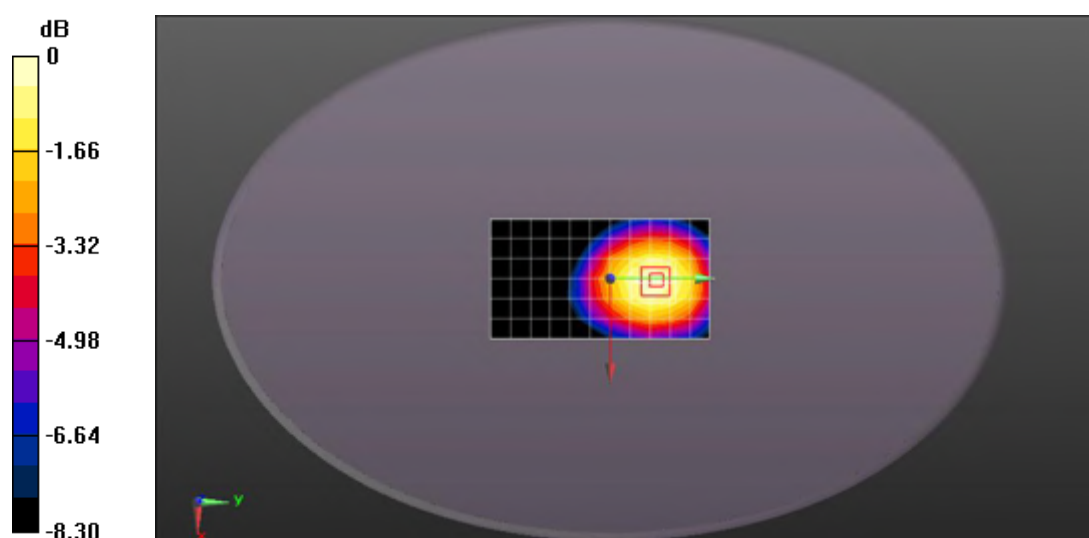
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 6.794 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.0810 W/kg

SAR(1 g) = 0.056 W/kg; SAR(10 g) = 0.042 W/kg

Maximum value of SAR (measured) = 0.0710 W/kg



0 dB = 0.0710 W/kg = -11.49 dBW/kg

Date: 2019-06-24

Test Laboratory: Compliance Certification Services Inc.

GSM850_GPRS 2Ts Ch190 Back side 10mm

DUT: Multi-Mode Advanced Radio; Type: PDC680 FxB1; Serial: 0607RD1450

Communication System: UID 0, GPRS/EGPRS 2TX Slots (0); Frequency: 836.6 MHz;
Duty Cycle: 1:2.07491

Medium parameters used: $f = 837$ MHz; $\sigma = 1.013$ S/m; $\epsilon_r = 54.415$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(9.33, 9.33, 9.33); Calibrated: 2019-05-24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2019-05-21
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (7x12x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.114 W/kg

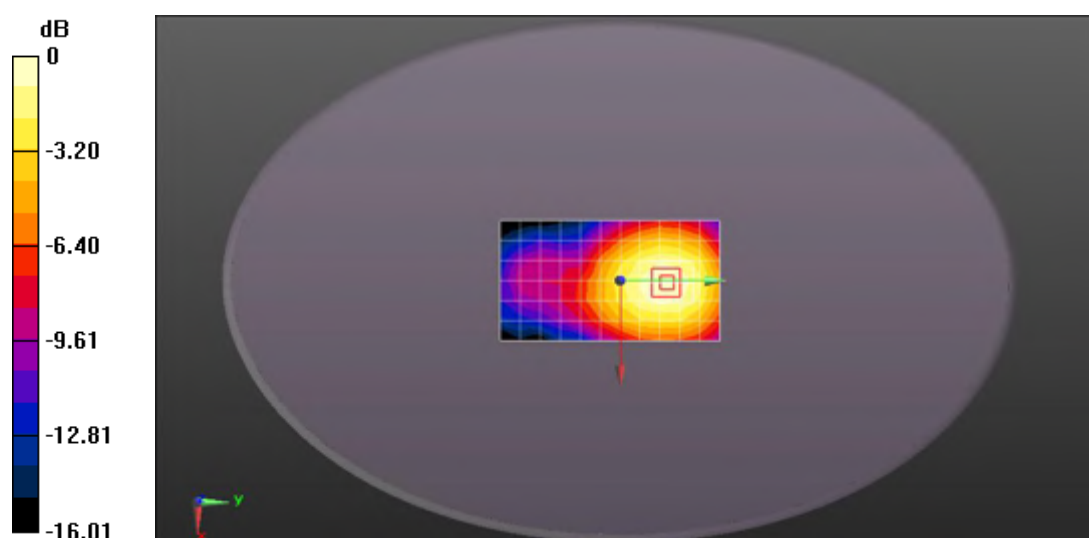
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 7.264 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.137 W/kg

SAR(1 g) = 0.094 W/kg; SAR(10 g) = 0.068 W/kg

Maximum value of SAR (measured) = 0.120 W/kg



0 dB = 0.120 W/kg = -9.21 dBW/kg

Date: 2019-06-25

Test Laboratory: Compliance Certification Services Inc.

GSM1900_GSM Ch661 Right Cheek

DUT: Multi-Mode Advanced Radio; Type: PDC680 FxB1; Serial: 0607RD1450

Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.36$ S/m; $\epsilon_r = 40.732$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(7.9, 7.9, 7.9); Calibrated: 2019-05-24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2019-05-21
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (7x12x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.180 W/kg

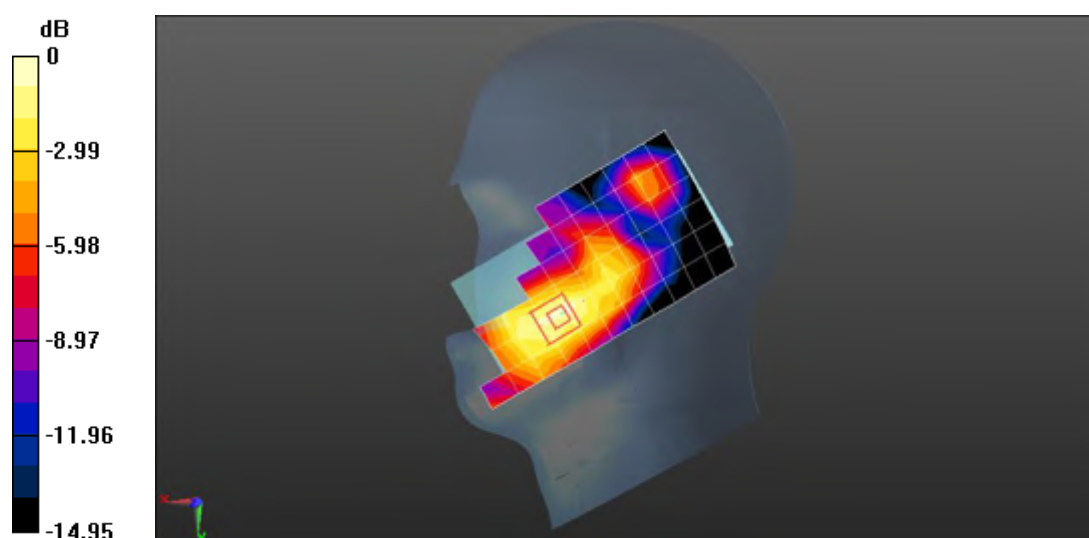
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 3.761 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.218 W/kg

SAR(1 g) = 0.137 W/kg; SAR(10 g) = 0.085 W/kg

Maximum value of SAR (measured) = 0.190 W/kg



0 dB = 0.190 W/kg = -7.21 dBW/kg

Date: 2019-06-23

Test Laboratory: Compliance Certification Services Inc.

GSM1900_GSM Ch661 Front side 15mm

DUT: Multi-Mode Advanced Radio; Type: PDC680 FxB1; Serial: 0607RD1450

Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.494$ S/m; $\epsilon_r = 53.857$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(7.66, 7.66, 7.66); Calibrated: 2019-05-24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2019-05-21
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (7x12x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.137 W/kg

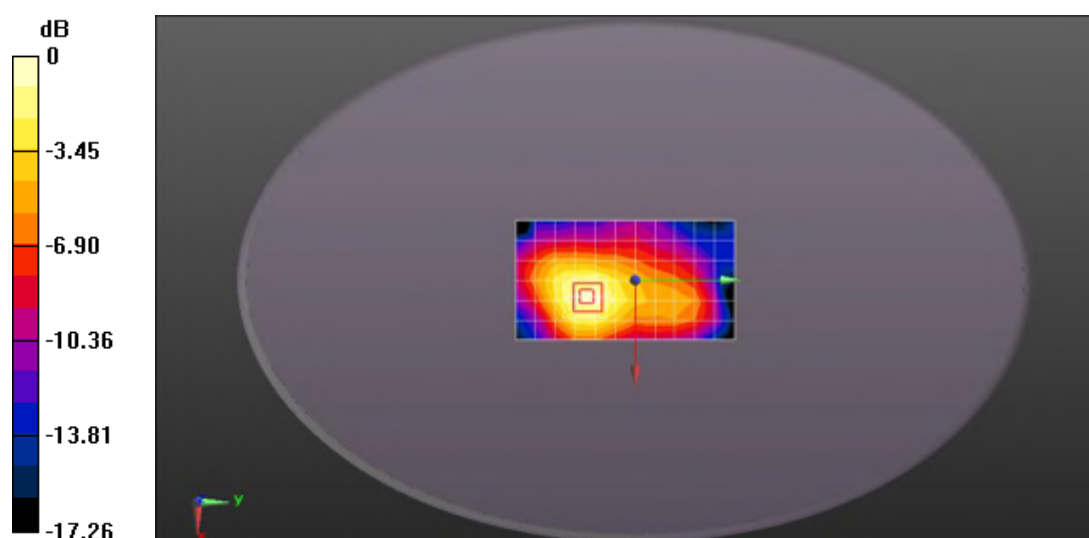
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 6.054 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.184 W/kg

SAR(1 g) = 0.107 W/kg; SAR(10 g) = 0.064 W/kg

Maximum value of SAR (measured) = 0.155 W/kg



0 dB = 0.155 W/kg = -8.10 dBW/kg

Date: 2019-06-23

Test Laboratory: Compliance Certification Services Inc.

GSM1900_GPRS 2Ts Ch661 Front side 10mm

DUT: Multi-Mode Advanced Radio; Type: PDC680 FxB1; Serial: 0607RD1450

Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.494$ S/m; $\epsilon_r = 53.857$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(7.66, 7.66, 7.66); Calibrated: 2019-05-24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2019-05-21
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (7x12x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.244 W/kg

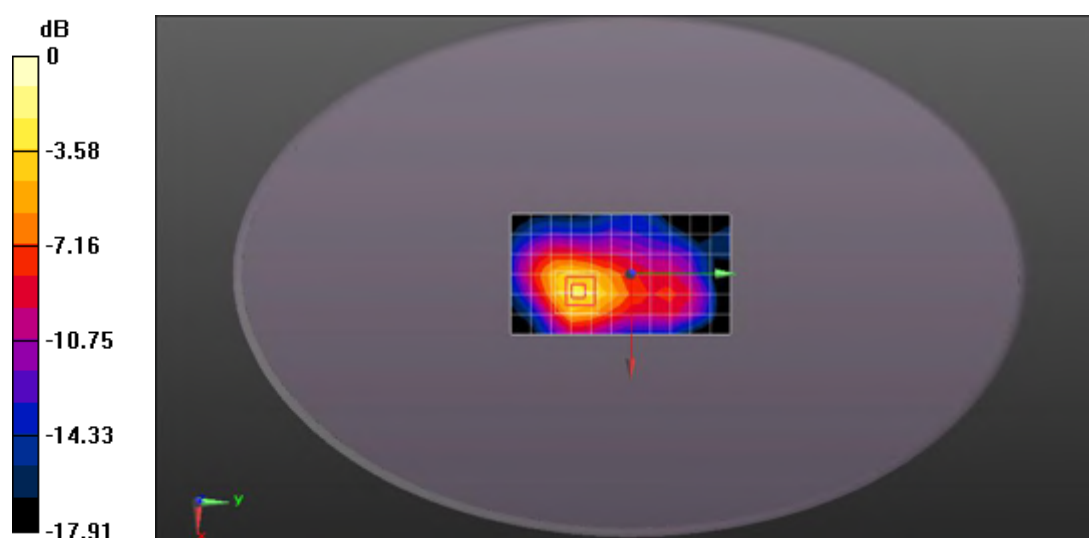
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 9.583 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.545 W/kg

SAR(1 g) = 0.317 W/kg; SAR(10 g) = 0.183 W/kg

Maximum value of SAR (measured) = 0.465 W/kg



0 dB = 0.465 W/kg = -3.33 dBW/kg

Date: 2019-06-24

Test Laboratory: Compliance Certification Services Inc.

CDMA BC0_RC3 SO55 Ch384 Left Cheek

DUT: Multi-Mode Advanced Radio; Type: PDC680 FxB1; Serial: 0607RD1450

Communication System: UID 0, CDMA2000 (0); Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 837$ MHz; $\sigma = 0.888$ S/m; $\epsilon_r = 40.83$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(9.46, 9.46, 9.46); Calibrated: 2019-05-24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2019-05-21
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (7x12x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.264 W/kg

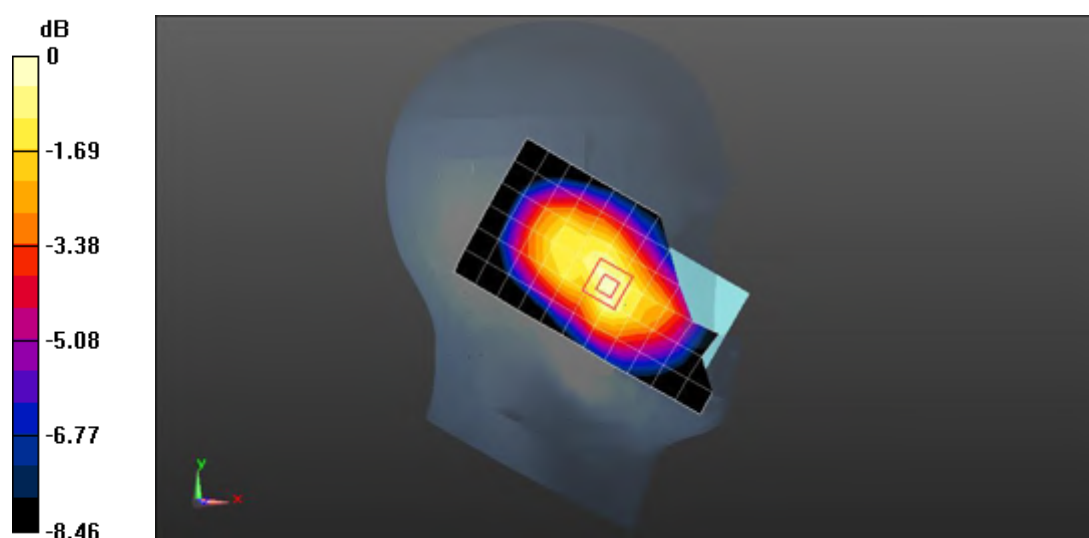
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 12.38 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.316 W/kg

SAR(1 g) = 0.230 W/kg; SAR(10 g) = 0.175 W/kg

Maximum value of SAR (measured) = 0.280 W/kg



0 dB = 0.280 W/kg = -5.53 dBW/kg

Date: 2019-06-24

Test Laboratory: Compliance Certification Services Inc.

CDMA BC0_RC3 SO32 Ch384 Back side 15mm

DUT: Multi-Mode Advanced Radio; Type: PDC680 FxB1; Serial: 0607RD1450

Communication System: UID 0, CDMA2000 (0); Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 837$ MHz; $\sigma = 1.013$ S/m; $\epsilon_r = 54.415$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(9.33, 9.33, 9.33); Calibrated: 2019-05-24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2019-05-21
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (7x12x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.180 W/kg

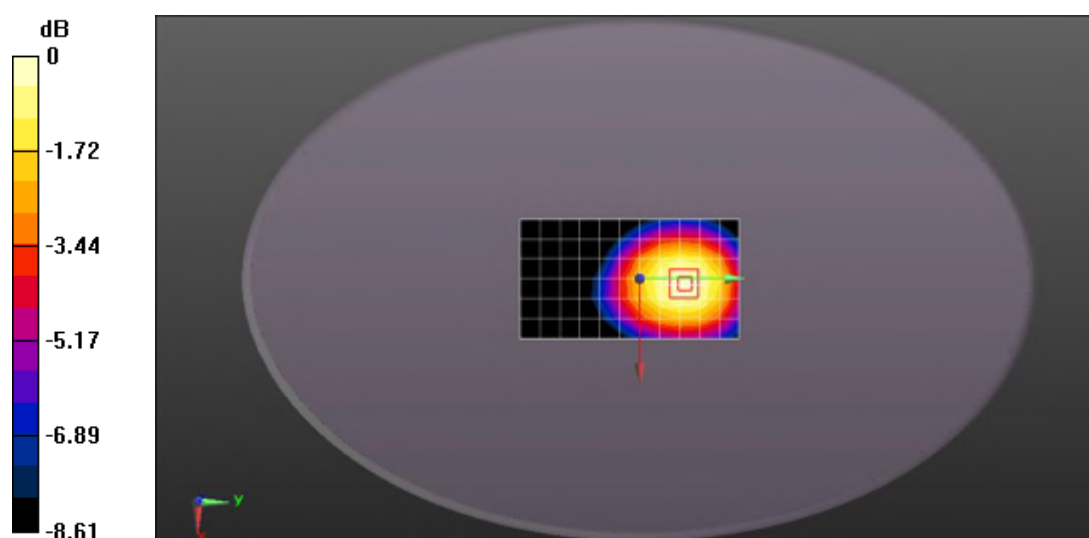
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 11.12 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.209 W/kg

SAR(1 g) = 0.147 W/kg; SAR(10 g) = 0.108 W/kg

Maximum value of SAR (measured) = 0.186 W/kg



0 dB = 0.186 W/kg = -7.30 dBW/kg

Date: 2019-06-24

Test Laboratory: Compliance Certification Services Inc.

CDMA BC0_RC3 SO32 Ch384 Back side 10mm

DUT: Multi-Mode Advanced Radio; Type: PDC680 FxB1; Serial: 0607RD1450

Communication System: UID 0, CDMA2000 (0); Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 837$ MHz; $\sigma = 1.013$ S/m; $\epsilon_r = 54.415$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(9.33, 9.33, 9.33); Calibrated: 2019-05-24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2019-05-21
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (7x12x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.217 W/kg

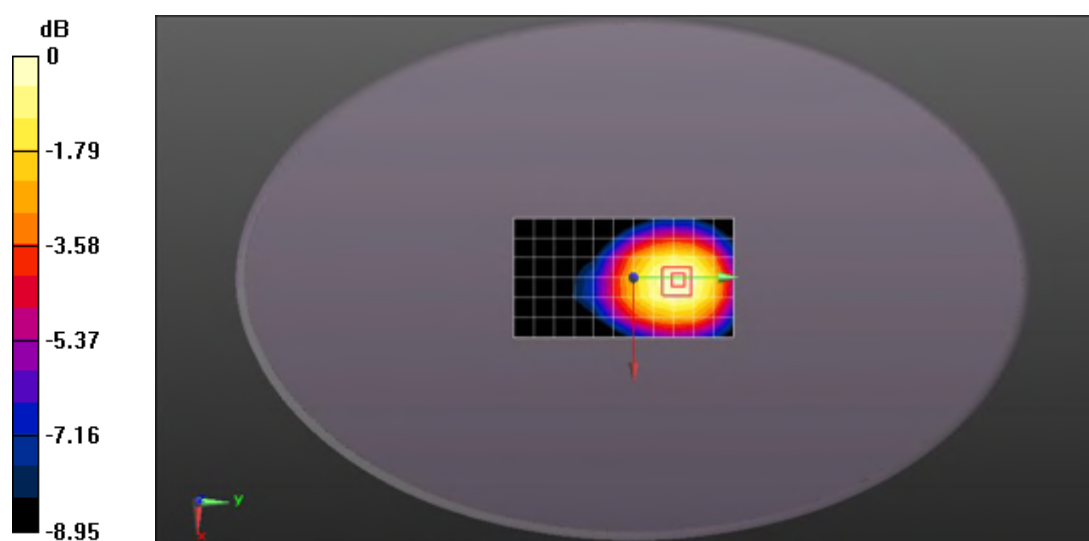
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 11.95 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.243 W/kg

SAR(1 g) = 0.174 W/kg; SAR(10 g) = 0.127 W/kg

Maximum value of SAR (measured) = 0.216 W/kg



0 dB = 0.216 W/kg = -6.66 dBW/kg

Date: 2019-06-25

Test Laboratory: Compliance Certification Services Inc.

LTE Band 2_20M QPSK 1RB 50Offset Ch18900 Right cheek

DUT: Multi-Mode Advanced Radio; Type: PDC680 FxB1; Serial: 0607RD1450

Communication System: UID 0, FDD_LTE (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.36$ S/m; $\epsilon_r = 40.732$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(7.9, 7.9, 7.9); Calibrated: 2019-05-24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2019-05-21
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (7x12x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.322 W/kg

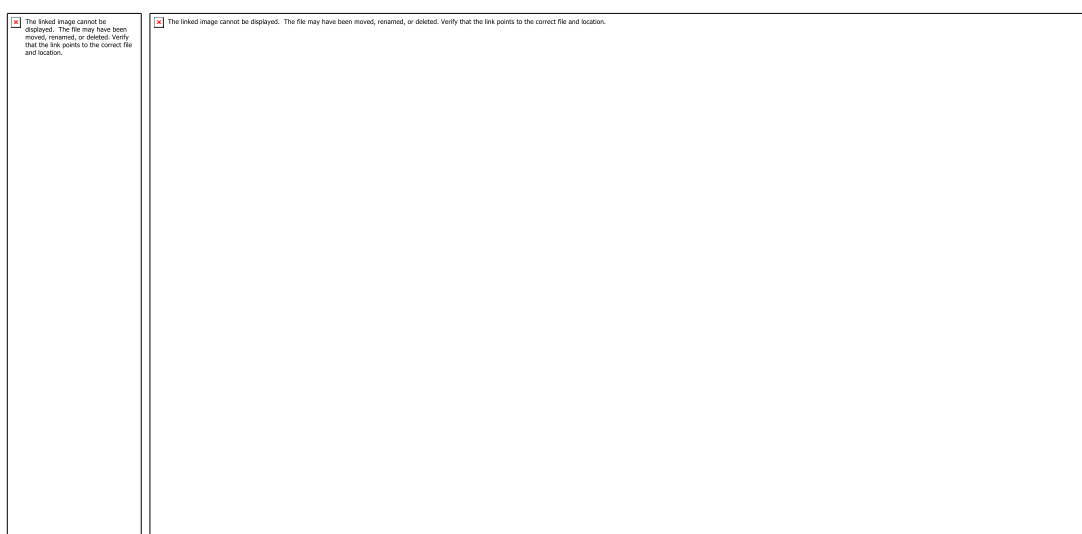
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 5.146 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.378 W/kg

SAR(1 g) = 0.242 W/kg; SAR(10 g) = 0.150 W/kg

Maximum value of SAR (measured) = 0.326 W/kg



$$0 \text{ dB} = 0.326 \text{ W/kg} = -4.87 \text{ dBW/kg}$$

Date: 2019-06-23

Test Laboratory: Compliance Certification Services Inc.

LTE Band 2_20M QPSK 1RB 50Offset Ch18900 Front side 15mm

DUT: Multi-Mode Advanced Radio; Type: PDC680 FxB1; Serial: 0607RD1450

Communication System: UID 0, FDD_LTE (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.494$ S/m; $\epsilon_r = 53.857$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(7.66, 7.66, 7.66); Calibrated: 2019-05-24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2019-05-21
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (7x12x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

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

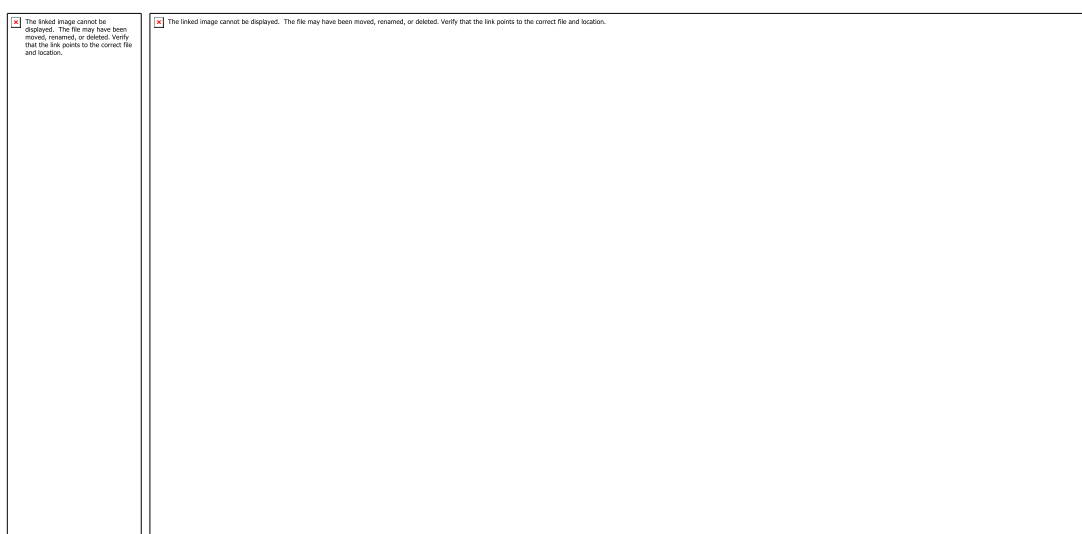
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 7.575 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.307 W/kg

SAR(1 g) = 0.182 W/kg; SAR(10 g) = 0.110 W/kg

Maximum value of SAR (measured) = 0.261 W/kg



$$0 \text{ dB} = 0.261 \text{ W/kg} = -5.83 \text{ dBW/kg}$$

Date: 2019-06-23

Test Laboratory: Compliance Certification Services Inc.

LTE Band 2_20M QPSK 1RB 50Offset Ch18900 Bottom side 10mm

DUT: Multi-Mode Advanced Radio; Type: PDC680 FxB1; Serial: 0607RD1450

Communication System: UID 0, FDD_LTE (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.494$ S/m; $\epsilon_r = 53.857$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(7.66, 7.66, 7.66); Calibrated: 2019-05-24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2019-05-21
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (5x9x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.481 W/kg

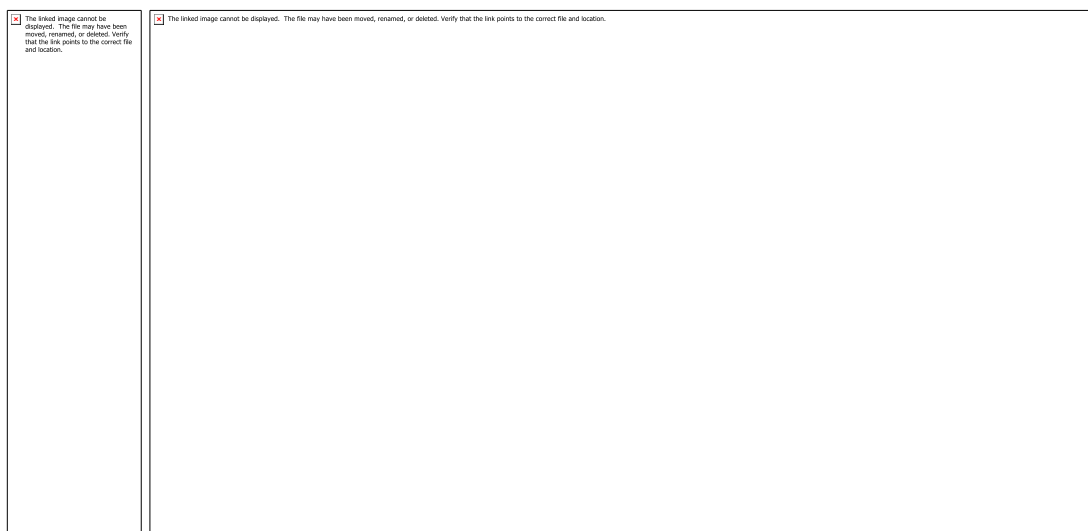
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 17.11 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.664 W/kg

SAR(1 g) = 0.356 W/kg; SAR(10 g) = 0.197 W/kg

Maximum value of SAR (measured) = 0.541 W/kg



0 dB = 0.541 W/kg = -2.67 dBW/kg

Date: 2019-06-25

Test Laboratory: Compliance Certification Services Inc.

LTE Band 4_20M QPSK 1RB 50Offset Ch20175 Right cheek

DUT: Multi-Mode Advanced Radio; Type: PDC680 FxB1; Serial: 0607RD1450

Communication System: UID 0, FDD_LTE (0); Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1732.5$ MHz; $\sigma = 1.3$ S/m; $\epsilon_r = 40.48$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(8, 8, 8); Calibrated: 2019-05-24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2019-05-21
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (7x12x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.384 W/kg

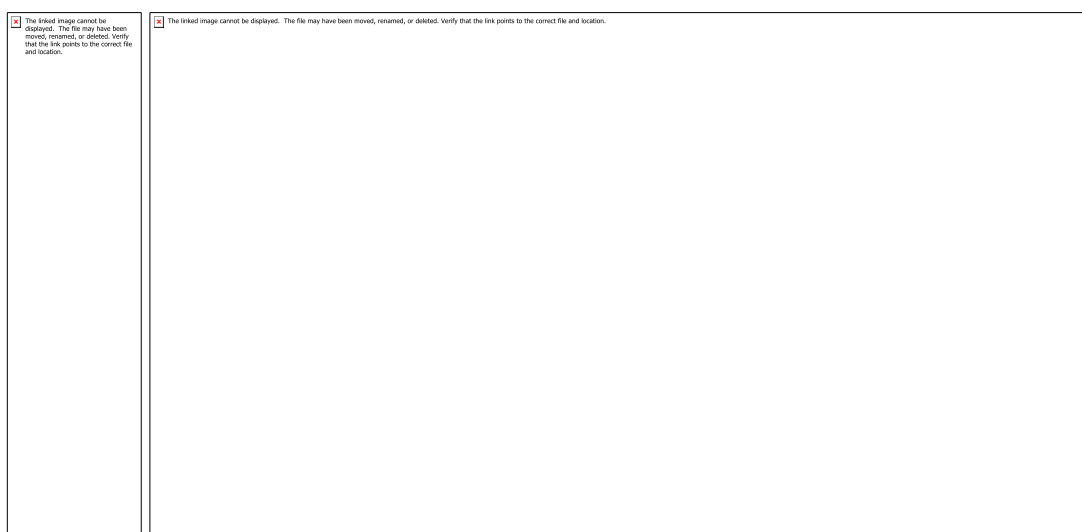
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 10.40 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.473 W/kg

SAR(1 g) = 0.317 W/kg; SAR(10 g) = 0.208 W/kg

Maximum value of SAR (measured) = 0.415 W/kg



0 dB = 0.415 W/kg = -3.82 dBW/kg

Date: 2019-06-23

Test Laboratory: Compliance Certification Services Inc.

LTE Band 4_20M QPSK 1RB 50Offset Ch20175 Front side 15mm

DUT: Multi-Mode Advanced Radio; Type: PDC680 FxB1; Serial: 0607RD1450

Communication System: UID 0, FDD_LTE (0); Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.41$ S/m; $\epsilon_r = 51.212$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(7.81, 7.81, 7.81); Calibrated: 2019-05-24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2019-05-21
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (7x12x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.255 W/kg

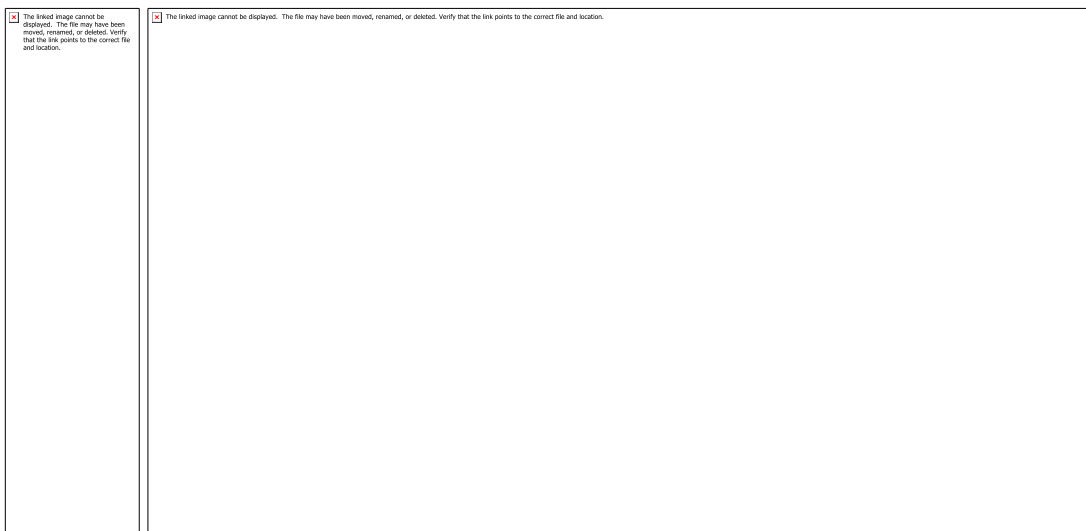
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 8.502 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.324 W/kg

SAR(1 g) = 0.202 W/kg; SAR(10 g) = 0.128 W/kg

Maximum value of SAR (measured) = 0.279 W/kg



0 dB = 0.279 W/kg = -5.54 dBW/kg

Date: 2019-06-23

Test Laboratory: Compliance Certification Services Inc.

LTE Band 4_20M QPSK 1RB 50Offset Ch20175 Bottom side 10mm

DUT: Multi-Mode Advanced Radio; Type: PDC680 FxB1; Serial: 0607RD1450

Communication System: UID 0, FDD_LTE (0); Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.41$ S/m; $\epsilon_r = 51.212$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(7.81, 7.81, 7.81); Calibrated: 2019-05-24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2019-05-21
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (5x9x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

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

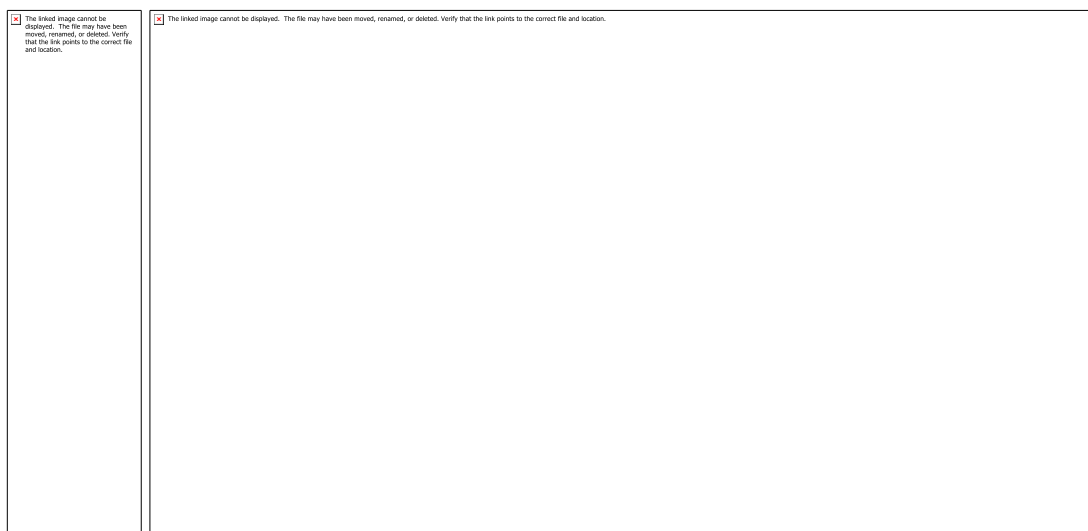
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 25.94 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.35 W/kg

SAR(1 g) = 0.735 W/kg; SAR(10 g) = 0.395 W/kg

Maximum value of SAR (measured) = 1.11 W/kg



0 dB = 1.11 W/kg = 0.45 dBW/kg

Date: 2019-06-24

Test Laboratory: Compliance Certification Services Inc.

LTE Band 5_10M QPSK 1RB 25Offset Ch20525 Left Cheek

DUT: Multi-Mode Advanced Radio; Type: PDC680 FxB1; Serial: 0607RD1450

Communication System: UID 0, FDD_LTE (0); Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 836.5$ MHz; $\sigma = 0.888$ S/m; $\epsilon_r = 40.833$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(9.46, 9.46, 9.46); Calibrated: 2019-05-24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2019-05-21
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (7x12x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.180 W/kg

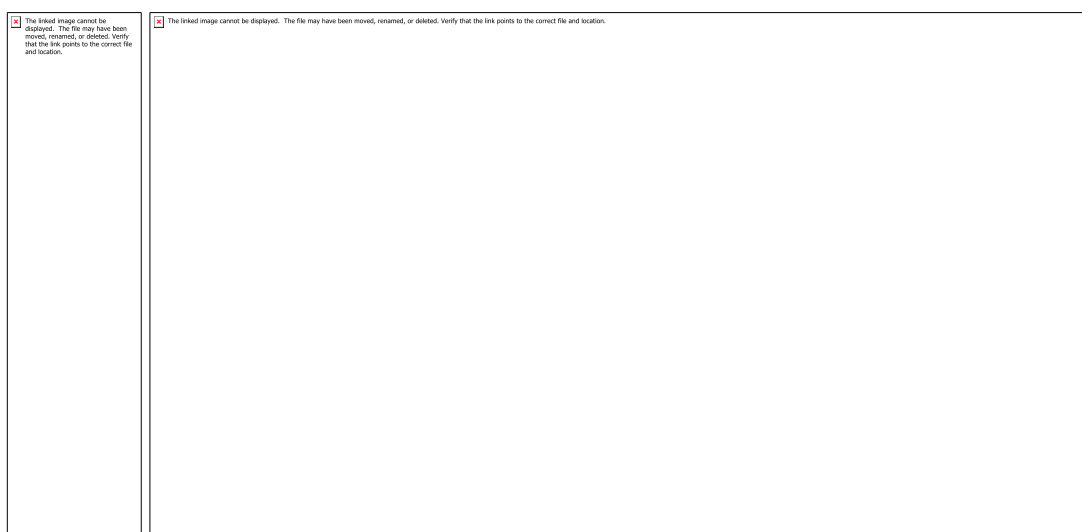
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 10.28 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.220 W/kg

SAR(1 g) = 0.163 W/kg; SAR(10 g) = 0.123 W/kg

Maximum value of SAR (measured) = 0.194 W/kg



0 dB = 0.194 W/kg = -7.12 dBW/kg

Date: 2019-06-24

Test Laboratory: Compliance Certification Services Inc.

LTE Band 5_10M QPSK 1RB 25Offset Ch20525 Back side 15mm

DUT: Multi-Mode Advanced Radio; Type: PDC680 FxB1; Serial: 0607RD1450

Communication System: UID 0, FDD_LTE (0); Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 836.5$ MHz; $\sigma = 1.013$ S/m; $\epsilon_r = 54.416$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(9.33, 9.33, 9.33); Calibrated: 2019-05-24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2019-05-21
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (7x12x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.120 W/kg

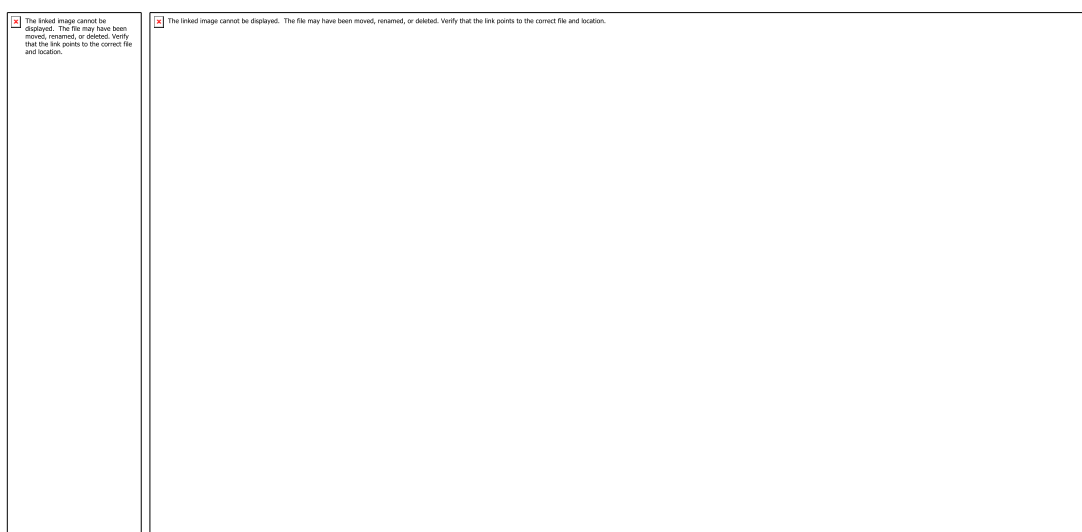
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 9.929 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.133 W/kg

SAR(1 g) = 0.094 W/kg; SAR(10 g) = 0.069 W/kg

Maximum value of SAR (measured) = 0.118 W/kg



0 dB = 0.118 W/kg = -9.28 dBW/kg

Date: 2019-06-24

Test Laboratory: Compliance Certification Services Inc.

LTE Band 5_10M QPSK 1RB 25Offset Ch20525 Back side 10mm

DUT: Multi-Mode Advanced Radio; Type: PDC680 FxB1; Serial: 0607RD1450

Communication System: UID 0, FDD_LTE (0); Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 836.5$ MHz; $\sigma = 1.013$ S/m; $\epsilon_r = 54.416$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(9.33, 9.33, 9.33); Calibrated: 2019-05-24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2019-05-21
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (7x12x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.136 W/kg

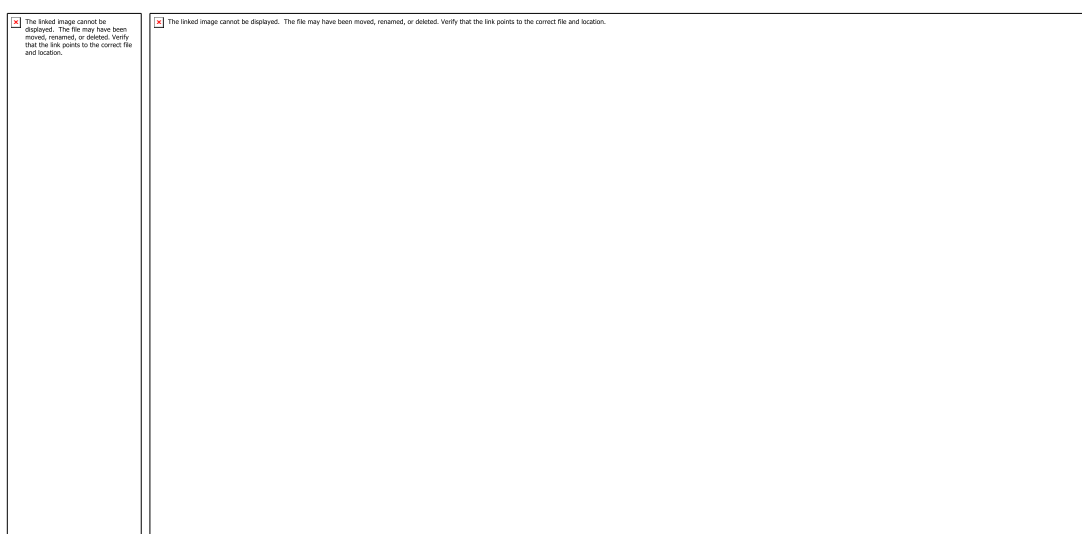
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 8.728 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.157 W/kg

SAR(1 g) = 0.111 W/kg; SAR(10 g) = 0.080 W/kg

Maximum value of SAR (measured) = 0.140 W/kg



$$0 \text{ dB} = 0.140 \text{ W/kg} = -8.54 \text{ dBW/kg}$$

Date: 2019-06-21

Test Laboratory: Compliance Certification Services Inc.

LTE Band 7_20M QPSK 1RB 50Offset Ch20850 Right Cheek

DUT: Multi-Mode Advanced Radio; Type: PDC680 FxB1; Serial: 0607RD1450

Communication System: UID 0, FDD_LTE (0); Frequency: 2510 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2510$ MHz; $\sigma = 1.897$ S/m; $\epsilon_r = 39.731$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(7.11, 7.11, 7.11); Calibrated: 2019-05-24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2019-05-21
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (8x15x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.695 W/kg

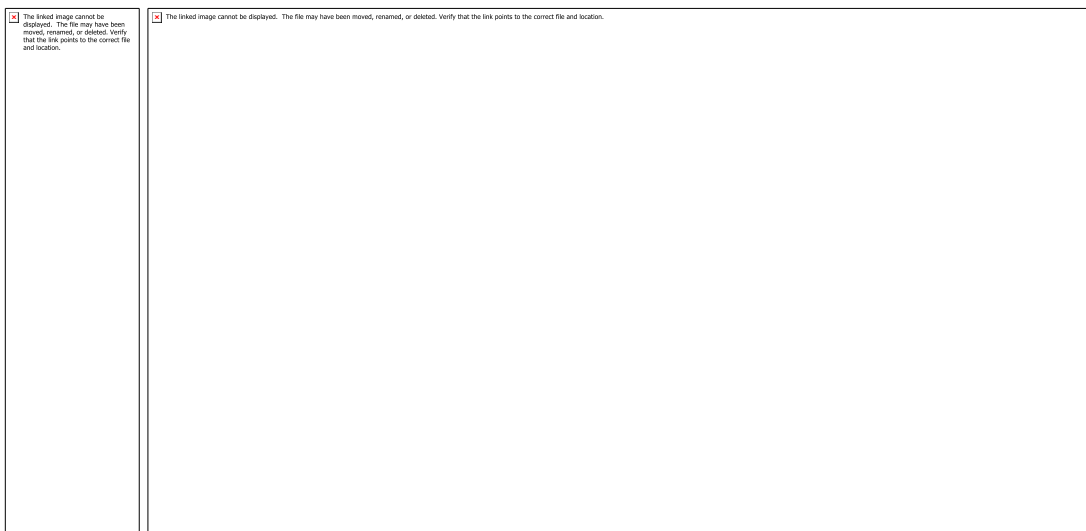
Configuration/Body/Zoom Scan (7x7x5)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 7.231 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.866 W/kg

SAR(1 g) = 0.468 W/kg; SAR(10 g) = 0.247 W/kg

Maximum value of SAR (measured) = 0.716 W/kg



0 dB = 0.716 W/kg = -1.45 dBW/kg

Date: 2019-06-22

Test Laboratory: Compliance Certification Services Inc.

LTE Band 7_20M QPSK 1RB 50Offset Ch20850 Front side 15mm

DUT: Multi-Mode Advanced Radio; Type: PDC680 FxB1; Serial: 0607RD1450

Communication System: UID 0, FDD_LTE (0); Frequency: 2510 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2510$ MHz; $\sigma = 2.046$ S/m; $\epsilon_r = 52.532$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(7.09, 7.09, 7.09); Calibrated: 2019-05-24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2019-05-21
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (8x15x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.155 W/kg

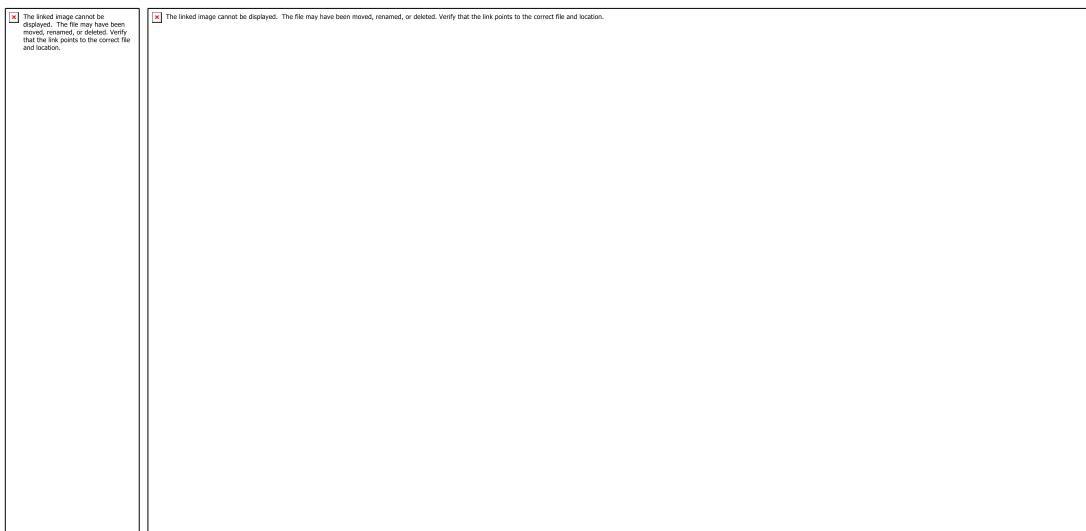
Configuration/Body/Zoom Scan (7x7x5)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 6.121 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.204 W/kg

SAR(1 g) = 0.110 W/kg; SAR(10 g) = 0.066 W/kg

Maximum value of SAR (measured) = 0.165 W/kg



$$0 \text{ dB} = 0.165 \text{ W/kg} = -7.83 \text{ dBW/kg}$$

Date: 2019-06-22

Test Laboratory: Compliance Certification Services Inc.

LTE Band 7_20M QPSK 1RB 50Offset Ch20850 Right side 10mm

DUT: Multi-Mode Advanced Radio; Type: PDC680 FxB1; Serial: 0607RD1450

Communication System: UID 0, FDD_LTE (0); Frequency: 2510 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2510$ MHz; $\sigma = 2.046$ S/m; $\epsilon_r = 52.532$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(7.09, 7.09, 7.09); Calibrated: 2019-05-24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2019-05-21
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (5x15x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.357 W/kg

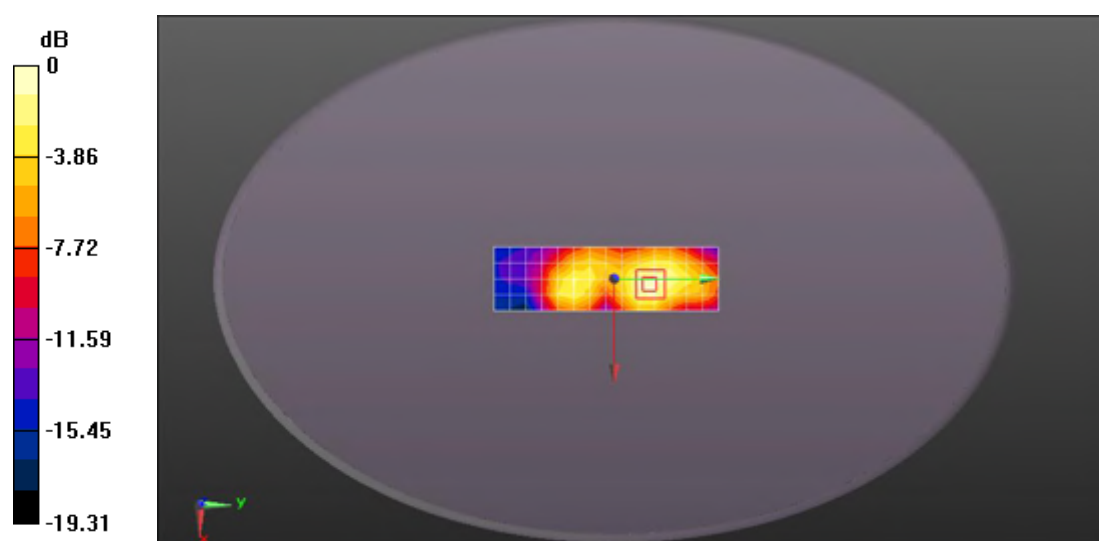
Configuration/Body/Zoom Scan (7x7x5)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 8.512 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.518 W/kg

SAR(1 g) = 0.280 W/kg; SAR(10 g) = 0.153 W/kg

Maximum value of SAR (measured) = 0.424 W/kg



0 dB = 0.299 W/kg = -5.24 dBW/kg

Date: 2019-06-24

Test Laboratory: Compliance Certification Services Inc.

LTE Band 26_15M QPSK 1RB 38Offset Ch26765 Right Cheek

DUT: Multi-Mode Advanced Radio; Type: PDC680 FxB1; Serial: 0607RD1450

Communication System: UID 0, FDD_LTE (0); Frequency: 821.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 821.5$ MHz; $\sigma = 0.879$ S/m; $\epsilon_r = 40.932$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(9.46, 9.46, 9.46); Calibrated: 2019-05-24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2019-05-21
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (7x12x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.145 W/kg

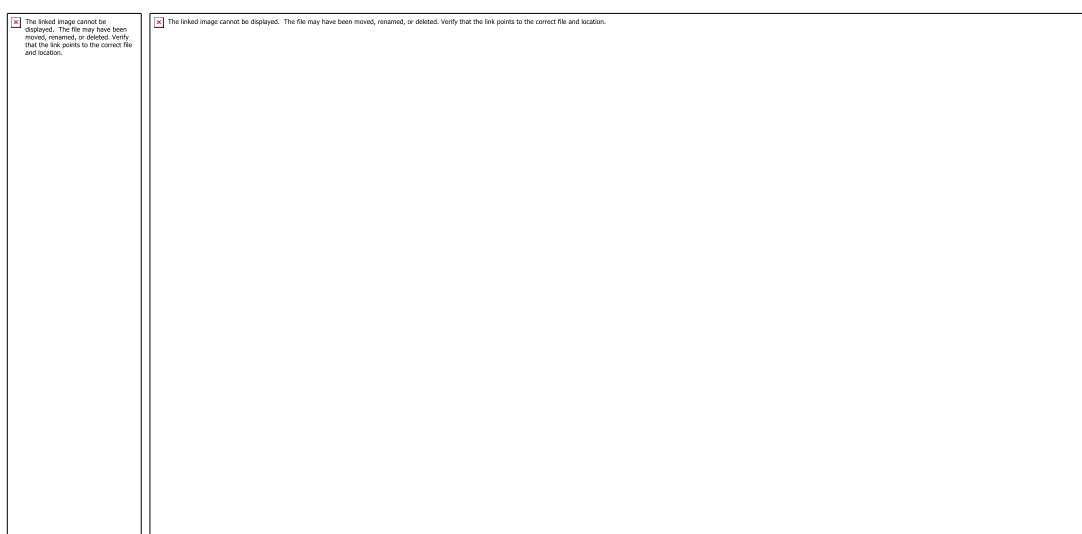
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 9.761 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.162 W/kg

SAR(1 g) = 0.126 W/kg; SAR(10 g) = 0.100 W/kg

Maximum value of SAR (measured) = 0.150 W/kg



0 dB = 0.150 W/kg = -8.24 dBW/kg

Date: 2019-06-24

Test Laboratory: Compliance Certification Services Inc.

LTE Band 26_15M QPSK 1RB 25Offset Ch26765 Back side 15mm

DUT: Multi-Mode Advanced Radio; Type: PDC680 FxB1; Serial: 0607RD1450

Communication System: UID 0, FDD_LTE (0); Frequency: 821.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 821.5$ MHz; $\sigma = 1.003$ S/m; $\epsilon_r = 54.489$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(9.33, 9.33, 9.33); Calibrated: 2019-05-24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2019-05-21
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (7x12x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.138 W/kg

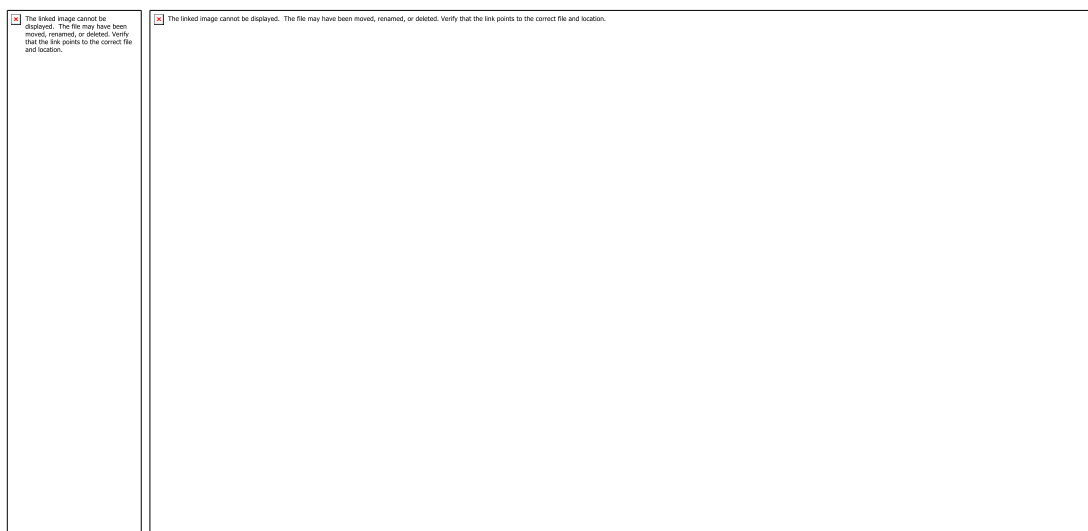
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 10.80 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.156 W/kg

SAR(1 g) = 0.111 W/kg; SAR(10 g) = 0.082 W/kg

Maximum value of SAR (measured) = 0.140 W/kg



0 dB = 0.140 W/kg = -8.54 dBW/kg

Date: 2019-06-24

Test Laboratory: Compliance Certification Services Inc.

LTE Band 26_15M QPSK 1RB 25Offset Ch26765 Back side 10mm

DUT: Multi-Mode Advanced Radio; Type: PDC680 FxB1; Serial: 0607RD1450

Communication System: UID 0, FDD_LTE (0); Frequency: 821.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 821.5$ MHz; $\sigma = 1.003$ S/m; $\epsilon_r = 54.489$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(9.33, 9.33, 9.33); Calibrated: 2019-05-24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2019-05-21
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (7x12x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.157 W/kg

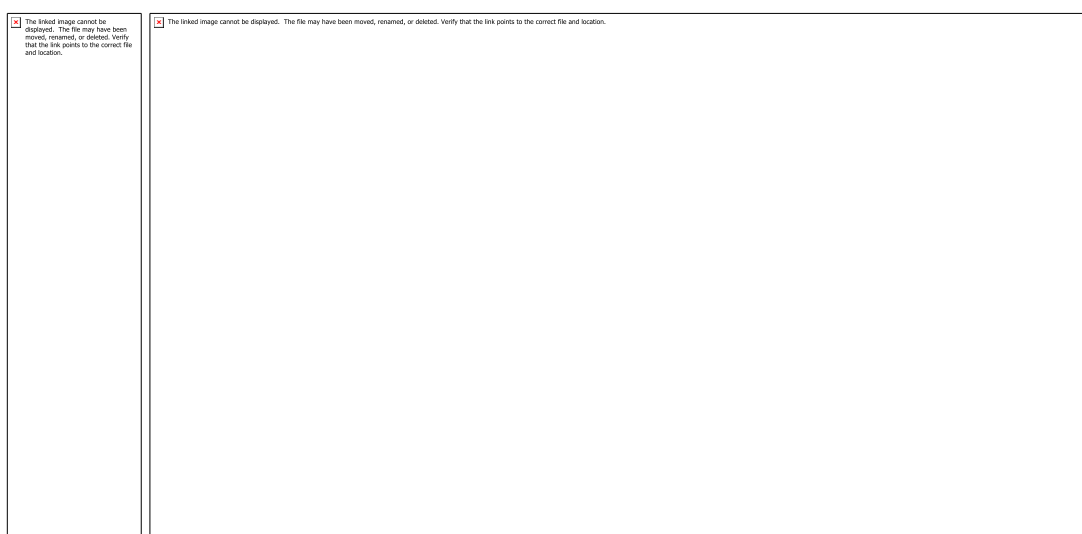
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 11.19 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.177 W/kg

SAR(1 g) = 0.126 W/kg; SAR(10 g) = 0.093 W/kg

Maximum value of SAR (measured) = 0.159 W/kg



0 dB = 0.159 W/kg = -7.99 dBW/kg

Date: 2019-06-21

Test Laboratory: Compliance Certification Services Inc.

LTE Band 38_20M QPSK 1RB 50Offset Ch38000 Right Cheek

DUT: Multi-Mode Advanced Radio; Type: PDC680 FxB1; Serial: 0607RD1450

Communication System: UID 0, FDD_LTE (0); Frequency: 2595 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2595$ MHz; $\sigma = 1.995$ S/m; $\epsilon_r = 39.405$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(7.11, 7.11, 7.11); Calibrated: 2019-05-24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2019-05-21
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (8x15x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.536 W/kg

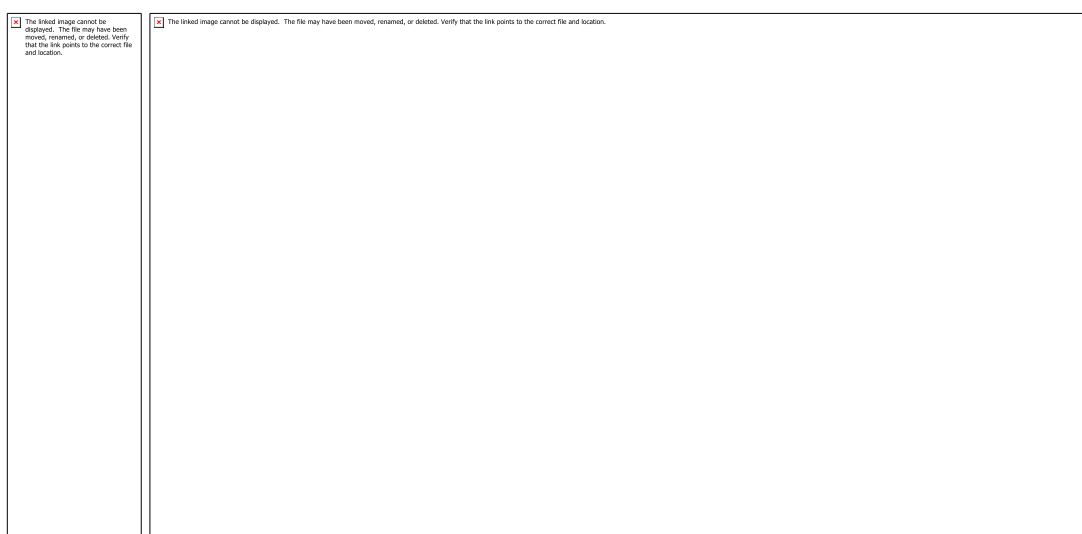
Configuration/Body/Zoom Scan (7x7x5)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 4.752 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.662 W/kg

SAR(1 g) = 0.342 W/kg; SAR(10 g) = 0.175 W/kg

Maximum value of SAR (measured) = 0.520 W/kg



0 dB = 0.520 W/kg = -2.84 dBW/kg

Date: 2019-06-22

Test Laboratory: Compliance Certification Services Inc.

LTE Band 38_20M QPSK 1RB 50Offset Ch38000 Front side 15mm

DUT: Multi-Mode Advanced Radio; Type: PDC680 FxB1; Serial: 0607RD1450

Communication System: UID 0, TDD_LTE (0); Frequency: 2595 MHz; Duty Cycle: 1:1.57943

Medium parameters used: $f = 2595$ MHz; $\sigma = 2.156$ S/m; $\epsilon_r = 52.249$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(7.09, 7.09, 7.09); Calibrated: 2019-05-24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2019-05-21
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (8x15x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.175 W/kg

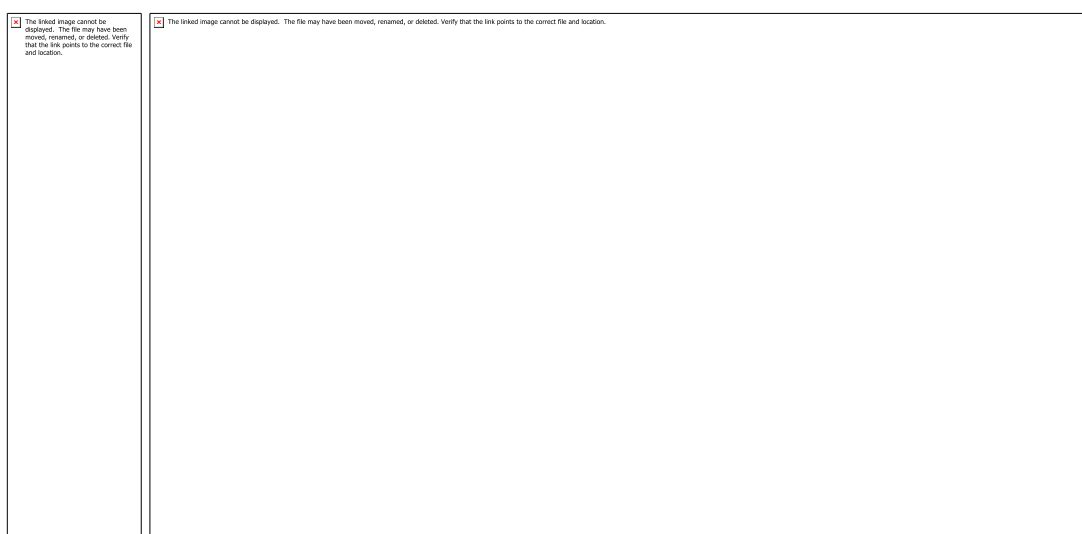
Configuration/Body/Zoom Scan (7x7x5)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 4.889 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.215 W/kg

SAR(1 g) = 0.115 W/kg; SAR(10 g) = 0.067 W/kg

Maximum value of SAR (measured) = 0.174 W/kg



0 dB = 0.174 W/kg = -7.59 dBW/kg

Date: 2019-06-22

Test Laboratory: Compliance Certification Services Inc.

LTE Band 38_20M QPSK 1RB 50Offset Ch38000 Right side 10mm

DUT: Multi-Mode Advanced Radio; Type: PDC680 FxB1; Serial: 0607RD1450

Communication System: UID 0, TDD_LTE (0); Frequency: 2595 MHz; Duty Cycle: 1:1.57943

Medium parameters used: $f = 2595$ MHz; $\sigma = 2.156$ S/m; $\epsilon_r = 52.249$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(7.09, 7.09, 7.09); Calibrated: 2019-05-24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2019-05-21
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (5x15x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.269 W/kg

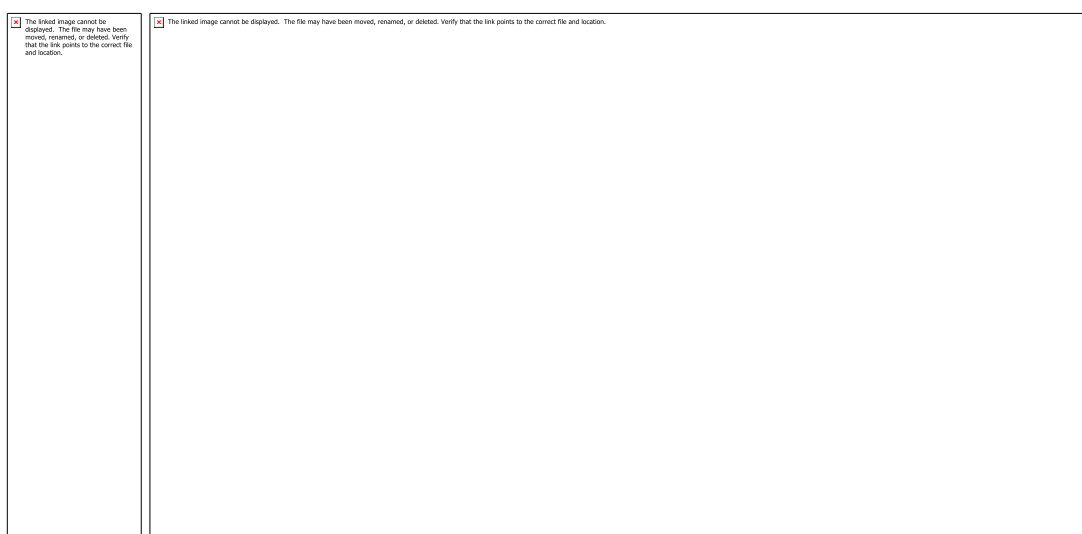
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 7.759 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.381 W/kg

SAR(1 g) = 0.201 W/kg; SAR(10 g) = 0.110 W/kg

Maximum value of SAR (measured) = 0.308 W/kg



0 dB = 0.308 W/kg = -5.11 dBW/kg

Date: 2019-06-21

Test Laboratory: Compliance Certification Services Inc.

LTE Band 40_20M QPSK 1RB 50Offset Ch39550 Right Cheek

DUT: Multi-Mode Advanced Radio; Type: PDC680 FxB1; Serial: 0607RD1450

Communication System: UID 0, FDD_LTE (0); Frequency: 2390 MHz; Duty Cycle: 1:1.57943

Medium parameters used: $f = 2390$ MHz; $\sigma = 1.758$ S/m; $\epsilon_r = 40.235$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(7.61, 7.61, 7.61); Calibrated: 2019-05-24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2019-05-21
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (8x15x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.408 W/kg

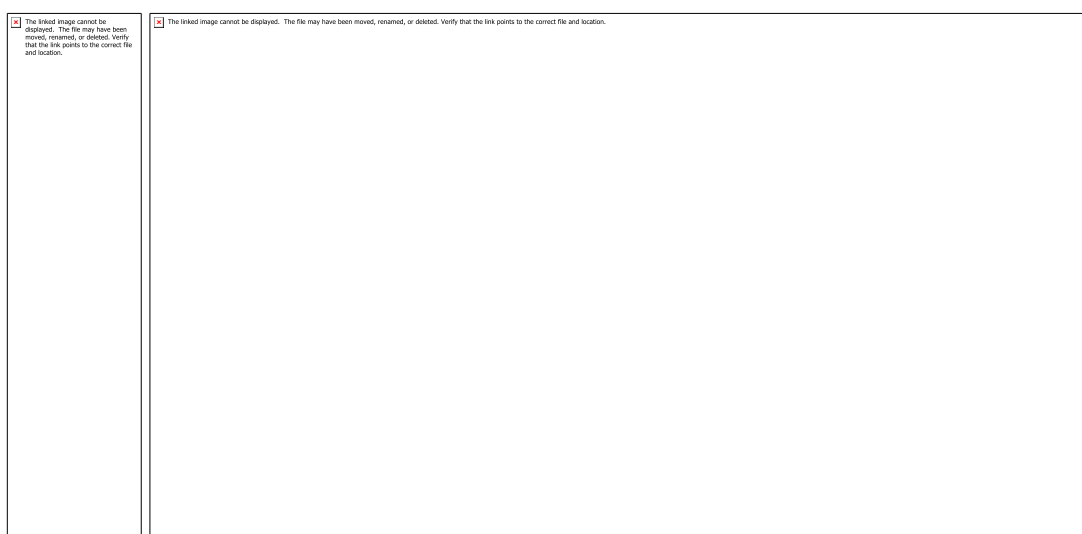
Configuration/Body/Zoom Scan (7x7x5)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 6.547 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.494 W/kg

SAR(1 g) = 0.278 W/kg; SAR(10 g) = 0.164 W/kg

Maximum value of SAR (measured) = 0.409 W/kg



0 dB = 0.409 W/kg = -3.88 dBW/kg

Date: 2019-06-22

Test Laboratory: Compliance Certification Services Inc.

LTE Band 40_20M QPSK 1RB 50Offset Ch39550 Front side 15mm

DUT: Multi-Mode Advanced Radio; Type: PDC680 FxB1; Serial: 0607RD1450

Communication System: UID 0, TDD_LTE (0); Frequency: 2390 MHz; Duty Cycle: 1:1.57943

Medium parameters used: $f = 2390$ MHz; $\sigma = 1.893$ S/m; $\epsilon_r = 52.946$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(7.49, 7.49, 7.49); Calibrated: 2019-05-24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2019-05-21
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (8x15x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.123 W/kg

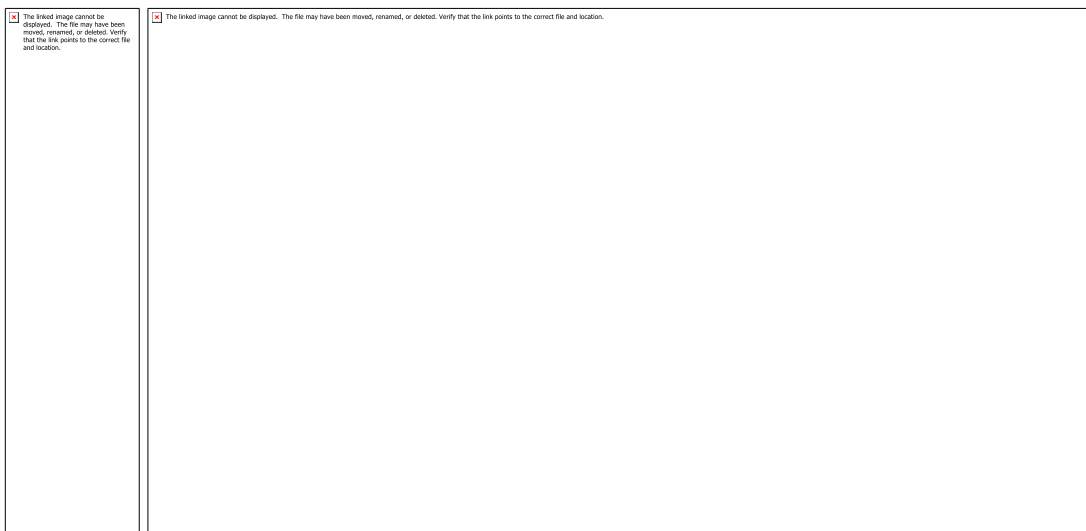
Configuration/Body/Zoom Scan (7x7x5)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 6.348 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.164 W/kg

SAR(1 g) = 0.093 W/kg; SAR(10 g) = 0.056 W/kg

Maximum value of SAR (measured) = 0.136 W/kg



0 dB = 0.136 W/kg = -8.66 dBW/kg

Date: 2019-06-22

Test Laboratory: Compliance Certification Services Inc.

LTE Band 40_20M QPSK 1RB 50Offset Ch39550 Right side 10mm

DUT: Multi-Mode Advanced Radio; Type: PDC680 FxB1; Serial: 0607RD1450

Communication System: UID 0, TDD_LTE (0); Frequency: 2390 MHz; Duty Cycle: 1:1.57943

Medium parameters used: $f = 2390$ MHz; $\sigma = 1.893$ S/m; $\epsilon_r = 52.946$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(7.49, 7.49, 7.49); Calibrated: 2019-05-24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2019-05-21
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (5x15x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.284 W/kg

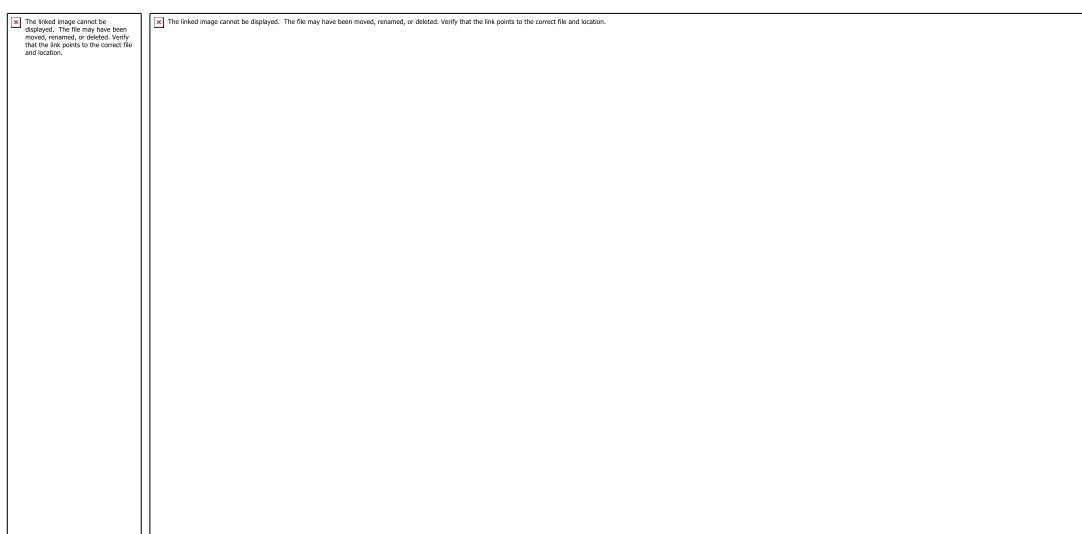
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 6.880 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.357 W/kg

SAR(1 g) = 0.203 W/kg; SAR(10 g) = 0.113 W/kg

Maximum value of SAR (measured) = 0.299 W/kg



0 dB = 0.299 W/kg = -5.24 dBW/kg

Date: 2019-06-21

Test Laboratory: Compliance Certification Services Inc.

LTE Band 41_20M QPSK 1RB 0Offset Ch40185 Right Cheek

DUT: Multi-Mode Advanced Radio; Type: PDC680 FxB1; Serial: 0607RD1450

Communication System: UID 0, TDD_LTE (0); Frequency: 2549.5 MHz; Duty Cycle: 1:1.57943

Medium parameters used: $f = 2549.5$ MHz; $\sigma = 1.937$ S/m; $\epsilon_r = 39.536$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(7.11, 7.11, 7.11); Calibrated: 2019-05-24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2019-05-21
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (8x15x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.493 W/kg

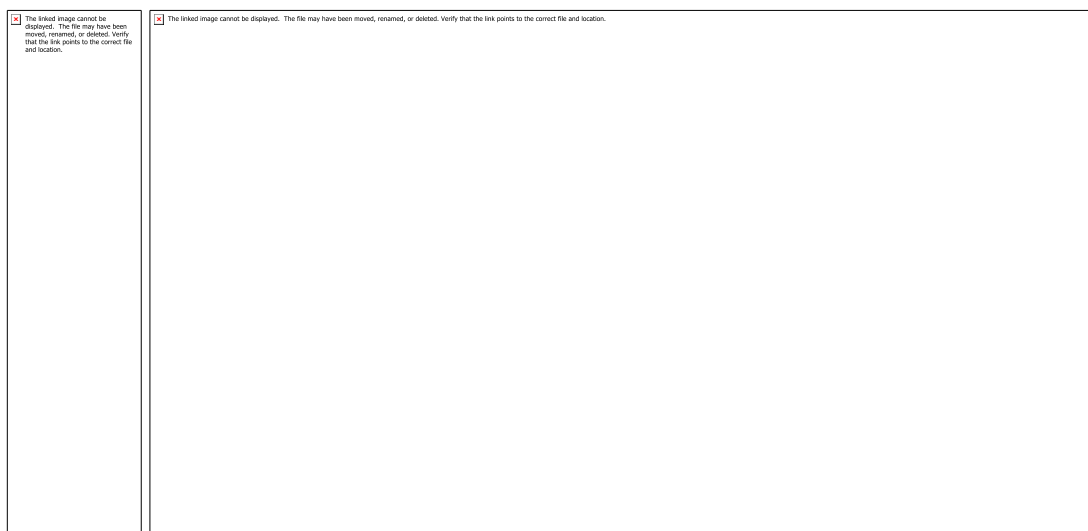
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 5.365 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.602 W/kg

SAR(1 g) = 0.317 W/kg; SAR(10 g) = 0.162 W/kg

Maximum value of SAR (measured) = 0.488 W/kg



0 dB = 0.488 W/kg = -3.12 dBW/kg

Date: 2019-06-22

Test Laboratory: Compliance Certification Services Inc.

LTE Band 41_20M QPSK 1RB 0Offset Ch40185 Front side 15mm

DUT: Multi-Mode Advanced Radio; Type: PDC680 FxB1; Serial: 0607RD1450

Communication System: UID 0, TDD_LTE (0); Frequency: 2549.5 MHz; Duty Cycle: 1:1.57943

Medium parameters used (interpolated): $f = 2549.5$ MHz; $\sigma = 2.093$ S/m; $\epsilon_r = 52.374$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(7.09, 7.09, 7.09); Calibrated: 2019-05-24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2019-05-21
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (8x15x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.116 W/kg

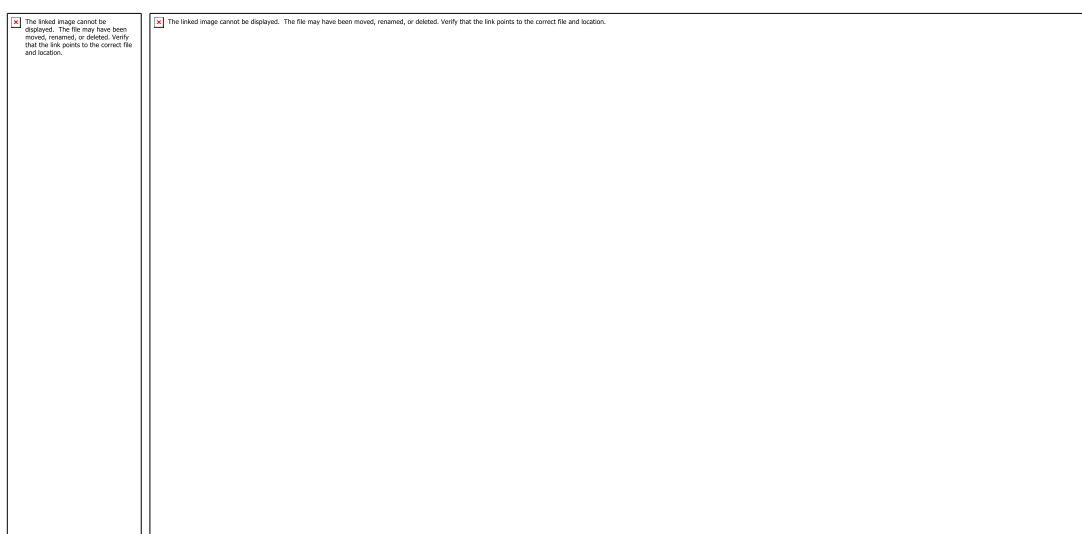
Configuration/Body/Zoom Scan (7x7x5)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 4.365 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.147 W/kg

SAR(1 g) = 0.079 W/kg; SAR(10 g) = 0.047 W/kg

Maximum value of SAR (measured) = 0.119 W/kg



0 dB = 0.119 W/kg = -9.24 dBW/kg

Date: 2019-06-22

Test Laboratory: Compliance Certification Services Inc.

LTE Band 41_20M QPSK 1RB 0Offset Ch40185 Right side 10mm

DUT: Multi-Mode Advanced Radio; Type: PDC680 FxB1; Serial: 0607RD1450

Communication System: UID 0, TDD_LTE (0); Frequency: 2549.5 MHz; Duty Cycle: 1:1.57943

Medium parameters used (interpolated): $f = 2549.5$ MHz; $\sigma = 2.093$ S/m; $\epsilon_r = 52.374$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(7.09, 7.09, 7.09); Calibrated: 2019-05-24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2019-05-21
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (5x15x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.236 W/kg

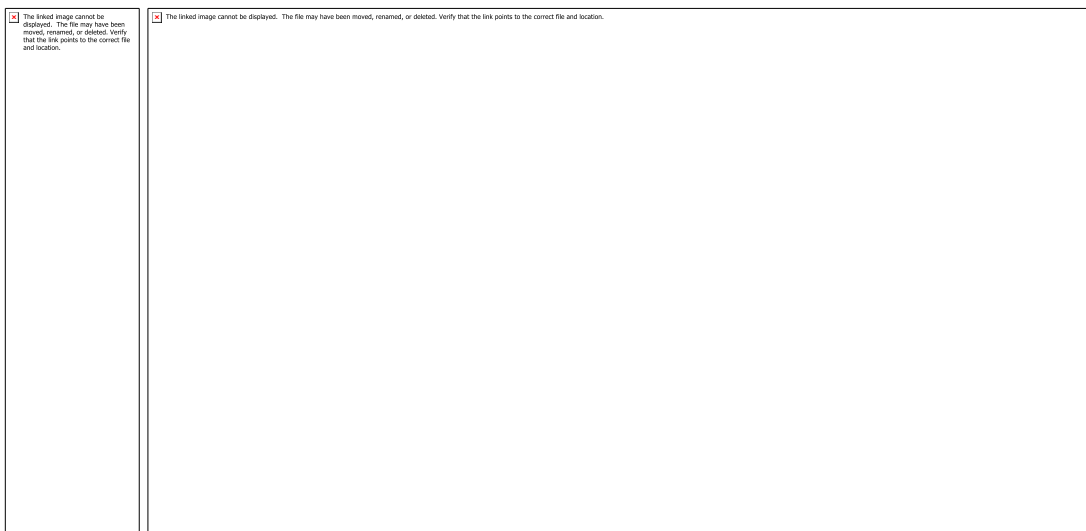
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 7.374 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.328 W/kg

SAR(1 g) = 0.176 W/kg; SAR(10 g) = 0.097 W/kg

Maximum value of SAR (measured) = 0.263 W/kg



0 dB = 0.263 W/kg = -5.80 dBW/kg

Date: 2019-06-21

Test Laboratory: Compliance Certification Services Inc.

WIFI 2.4G 802.11b 1Mbps Left cheek Ch11

DUT: Multi-Mode Advanced Radio; Type: PDC680 FxB1; Serial: 0607RD1450

Communication System: UID 0, IEEE 802.11b (0); Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.842$ S/m; $\epsilon_r = 39.88$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(7.24, 7.24, 7.24); Calibrated: 2019-05-24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2019-05-21
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (9x16x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.569 W/kg

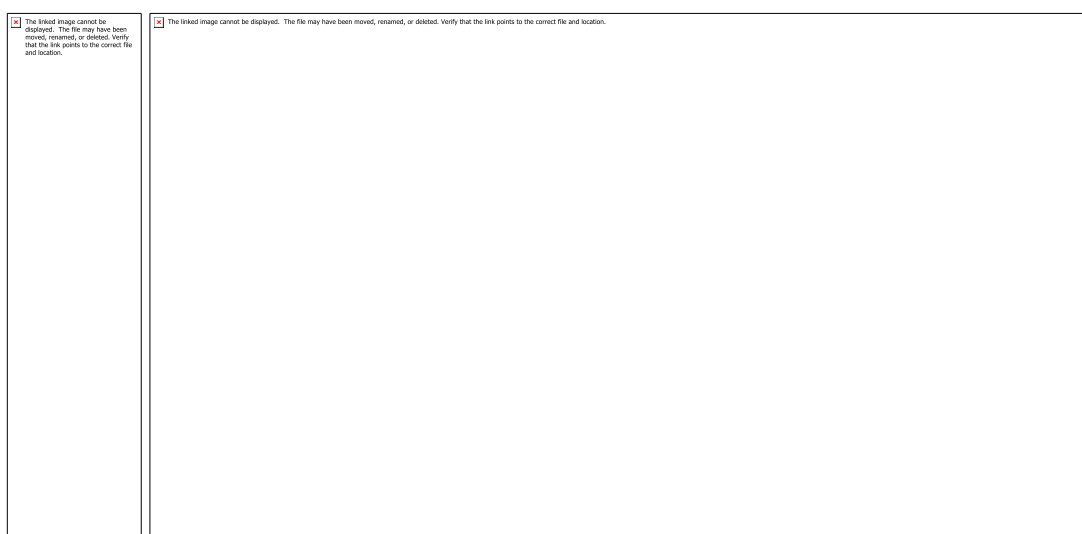
Configuration/Body/Zoom Scan (7x7x5)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 15.24 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.637 W/kg

SAR(1 g) = 0.437 W/kg; SAR(10 g) = 0.284 W/kg

Maximum value of SAR (measured) = 0.628 W/kg



0 dB = 0.628 W/kg = -2.02 dBW/kg

Date: 2019-06-22

Test Laboratory: Compliance Certification Services Inc.

WIFI 2.4G 802.11b 1Mbps Back side Ch11 0mm with Back Splint

DUT: Multi-Mode Advanced Radio; Type: PDC680 FxB1; Serial: 0607RD1450

Communication System: UID 0, IEEE 802.11b (0); Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.987$ S/m; $\epsilon_r = 52.675$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(7.37, 7.37, 7.37); Calibrated: 2019-05-24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2019-05-21
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (9x16x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.0508 W/kg

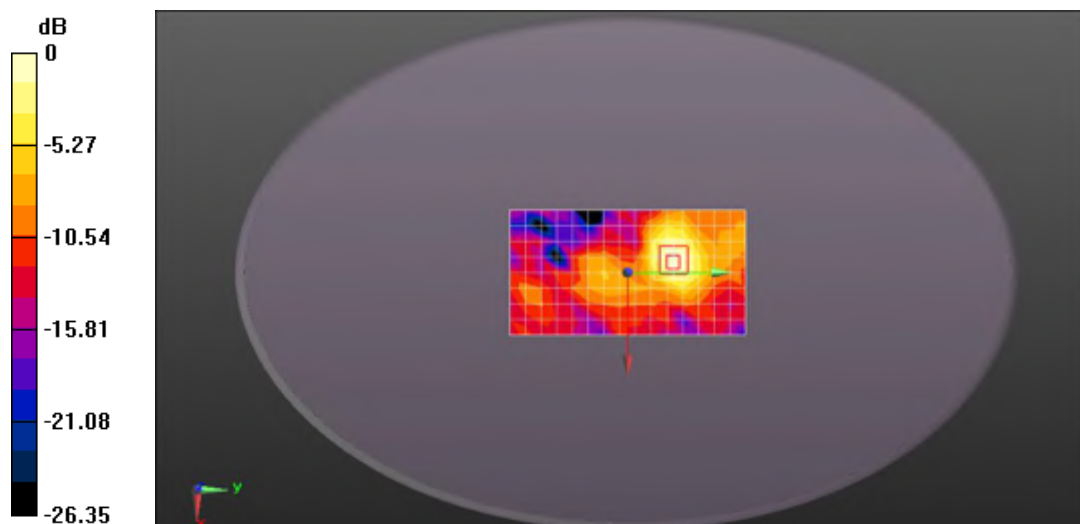
Configuration/Body/Zoom Scan (7x7x5)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 1.531 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.0720 W/kg

SAR(1 g) = 0.038 W/kg; SAR(10 g) = 0.020 W/kg

Maximum value of SAR (measured) = 0.0546 W/kg



0 dB = 0.0546 W/kg = -12.63 dBW/kg

Date: 2019-06-22

Test Laboratory: Compliance Certification Services Inc.

WIFI 2.4G 802.11b 1Mbps Right side Ch11 10mm

DUT: Multi-Mode Advanced Radio; Type: PDC680 FxB1; Serial: 0607RD1450

Communication System: UID 0, IEEE 802.11b (0); Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.987$ S/m; $\epsilon_r = 52.675$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(7.37, 7.37, 7.37); Calibrated: 2019-05-24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2019-05-21
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1102
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (6x16x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.0495 W/kg

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

Reference Value = 0.8820 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.0570 W/kg

SAR(1 g) = 0.032 W/kg; SAR(10 g) = 0.017 W/kg

Maximum value of SAR (measured) = 0.0435 W/kg



0 dB = 0.0435 W/kg = -13.62 dBW/kg