

APPENDIX A: SAR TEST PLOTS

ELEMENT

DUT: BCG-A2771; Type: Watch; Serial: CJH4CW297

Communication System: UID:10415 - AAA, WLAN; MAIA: Y; Frequency: 2412.0 MHz

Medium: 2450 Head; Medium parameters used:

$f = 2412.0$ MHz; $\text{cond} = 1.83$ S/m; $\text{perm} = 38.5$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 06/06/2022; Ambient Temp: 20.3°C; Tissue Temp: 23.8°C

Probe: EX3DV4 - SN7674; ConvF:(7.54,7.54,7.54); Calibrated: 2021-09-06

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn1683; Calibrated: 2021-08-06

Phantom: Twin-SAM V8.0; Serial: 2071

Measurement SW: DASY Module SAR V16.0.2.83

Mode: IEEE 802.11b, Head SAR, Front side, 22 MHz Bandwidth, Ch. 1, 1 Mbps, Aluminum, Sport Wristband

Area Scan (80.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: $dx=5.0$ mm, $dy=5.0$ mm, $dz=1.5$ mm; Graded Ratio: 1.5

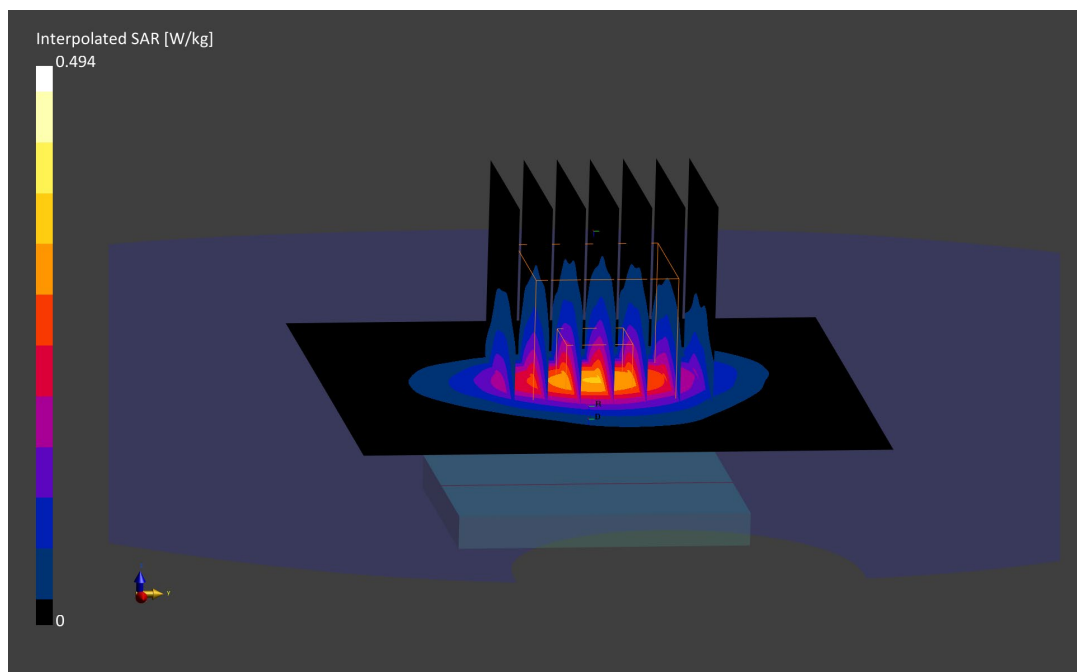
Reference Value = 0.32 W/kg; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.494 W/kg

SAR(1 g) = 0.276 W/kg

Smallest distance from peaks to all points 3 dB below is 11.2 mm

Ratio of SAR at M2 to SAR at M1 = 83.7 %



ELEMENT

DUT: BCG-A2771; Type: Watch; Serial: F36L947J6F

Communication System: UID:10417 - AAC, WLAN; MAIA: Y; Frequency: 5745.0 MHz
Medium: 5200-5800 Head; Medium parameters used:
 $f = 5745.0$ MHz; $\text{cond} = 5.06$ S/m; $\text{perm} = 33.8$; $\text{density} = 1000$ kg/m³
Phantom Section: Flat; Space: 10.00 mm

Test Date: 06/06/2022; Ambient Temp: 21.6°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7638; ConvF:(5.18,5.18,5.18); Calibrated: 2022-03-22
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1408; Calibrated: 2022-03-21
Phantom: Twin-SAM V8.0; Serial: 2027
Measurement SW: DASY Module SAR V16.0.2.136

Mode: IEEE 802.11a, Head SAR, Front Side, 20 MHz Bandwidth, UNII-3, Ch. 149, 6.0 Mbps, Aluminum, Sport Wristband

Area Scan (80.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

Zoom Scan (22.0 x 22.0 x 22.0): Measurement grid: $dx=4.0$ mm, $dy=4.0$ mm, $dz=1.4$ mm; Graded Ratio: 1.4

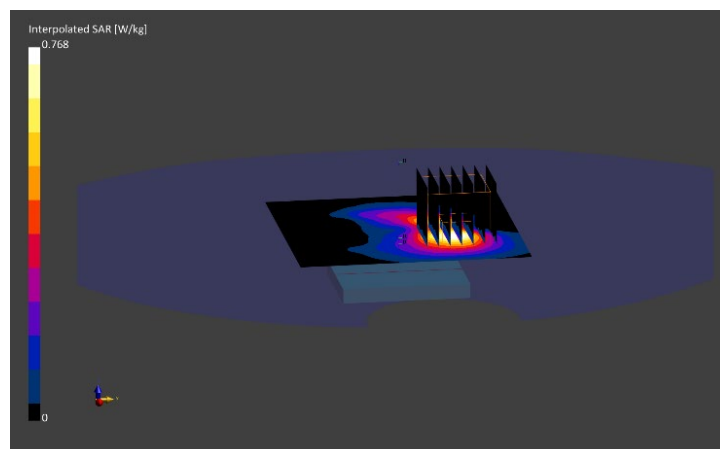
Reference Value = 0.16 W/kg; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.768 W/kg

SAR(1 g) = 0.191 W/kg

Smallest distance from peaks to all points 3 dB below is 9.3 mm

Ratio of SAR at M2 to SAR at M1 = 62.3 %



ELEMENT

DUT: BCG-A2771; Type: Watch; Serial: F522RD9PVG

Communication System: UID:10032 - CAA, Bluetooth; MAIA: Y; Frequency: 2480.0 MHz

Medium: 2450 Head; Medium parameters used:

$f = 2480.0$ MHz; $\text{cond} = 1.91$ S/m; $\text{perm} = 38.3$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 10.00 mm

Test Date: 06/06/2022; Ambient Temp: 20.3°C; Tissue Temp: 23.8°C

Probe: EX3DV4 - SN7674; ConvF:(7.54,7.54,7.54); Calibrated: 2021-09-06

Sensor-Surface: 1.4mm (All points)

Electronics: DAE4 Sn1683; Calibrated: 2021-08-06

Phantom: Twin-SAM V8.0; Serial: 2071

Measurement SW: DASY Module SAR V16.0.2.136

Mode: Bluetooth, Head SAR, Ch.78, 1Mbps, Front Side, Aluminum, Sport Wristband

Area Scan (80.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: $dx=5.0$ mm, $dy=5.0$ mm, $dz=1.5$ mm; Graded Ratio: 1.5

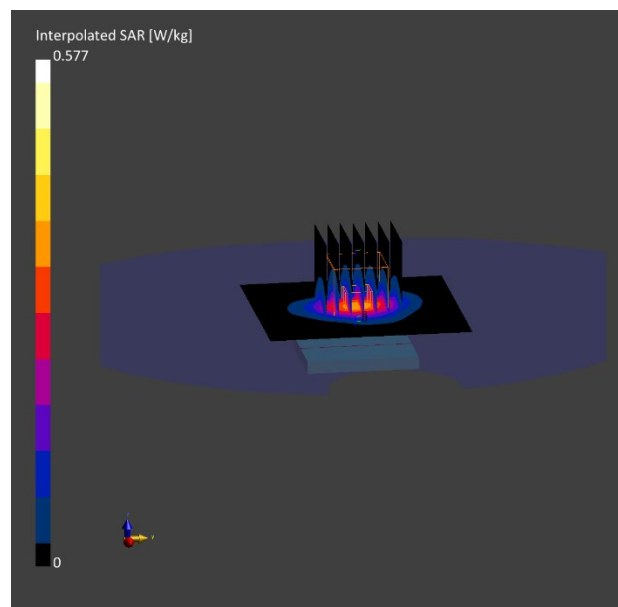
Reference Value = 0.29 W/kg; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.577 W/kg

SAR(1 g) = 0.299 W/kg;

Smallest distance from peaks to all points 3 dB below is 11.0 mm

Ratio of SAR at M2 to SAR at M1 = 80.8 %



ELEMENT

DUT: BCG-A2771; Type: Watch; Serial: FY0HPM7G9H

Communication System: UID:10415 - AAA, WLAN; MAIA: Y; Frequency: 2412.0 MHz

Medium: 2450 Head; Medium parameters used:

$f = 2412.0$ MHz; $\text{cond} = 1.82$ S/m; $\text{perm} = 39.6$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 06/06/2022; Ambient Temp: 22.7°C; Tissue Temp: 23.2°C

Probe: EX3DV4 - SN7427; ConvF:(7.28,7.28,7.28); Calibrated: 2022-02-22

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn1403; Calibrated: 2022-02-22

Phantom: Twin-SAM V8.0; Serial: 1944

Measurement SW: DASY Module SAR V16.0.2.136

**Mode: IEEE 802.11b, Extremity SAR, Back side, 22 MHz Bandwidth, Ch. 1, 1 Mbps,
Aluminum, Metal Links Wristband**

Area Scan (80.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: $dx=5.0$ mm, $dy=5.0$ mm, $dz=1.5$ mm; Graded Ratio: 1.5

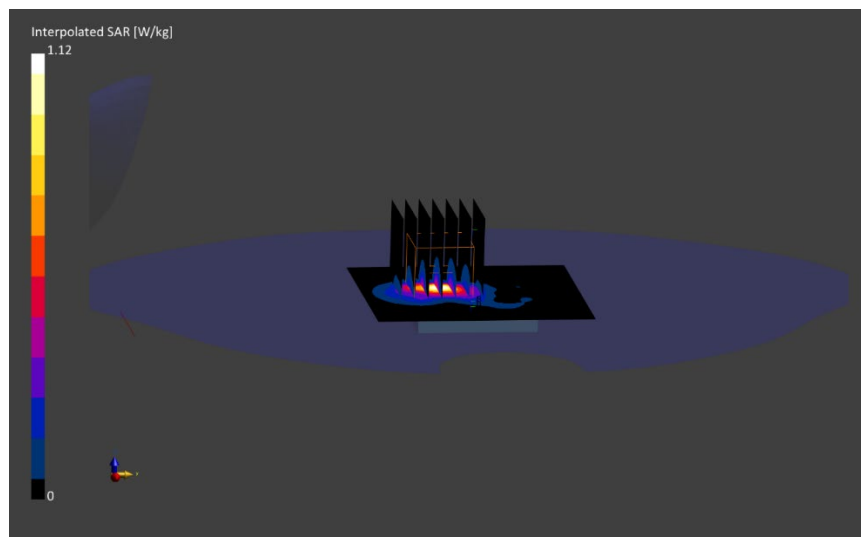
Reference Value = 0.39 W/kg; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.12 W/kg

SAR(10 g) = 0.155 W/kg

Smallest distance from peaks to all points 3 dB below is 6.3 mm

Ratio of SAR at M2 to SAR at M1 = 74.6 %



ELEMENT

DUT: BCG-A2771; Type: Watch; Serial: HQTX35336T

Communication System: UID:10417 - AAC, WLAN; MAIA: Y; Frequency: 5745.0 MHz
Medium: 5200-5800 Head; Medium parameters used:
 $f = 5745.0$ MHz; $\text{cond} = 5.06$ S/m; $\text{perm} = 33.8$; $\text{density} = 1000$ kg/m³
Phantom Section: Flat; Space: 0.00 mm

Test Date: 06/06/2022; Ambient Temp: 21.6°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7638; ConvF:(5.18,5.18,5.18); Calibrated: 2022-03-22
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1408; Calibrated: 2022-03-21
Phantom: Twin-SAM V8.0; Serial: 2027
Measurement SW: DASY Module SAR V16.0.2.136

Mode: IEEE 802.11a, Extremity SAR, Back Side, 20 MHz Bandwidth, UNII-3, Ch. 149, 6.0 Mbps, Aluminum, Metal Loop Wristband

Area Scan (120.0 x 100.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

Zoom Scan (22.0 x 22.0 x 22.0): Measurement grid: $dx=4.0$ mm, $dy=4.0$ mm, $dz=1.4$ mm; Graded Ratio: 1.4

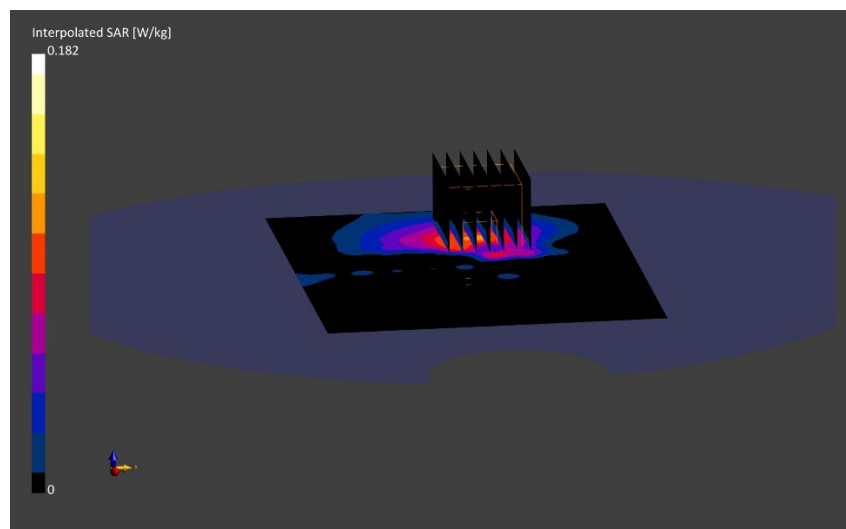
Reference Value = 0.03 W/kg; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.182 W/kg

SAR(10 g) = 0.015 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 57.3 %



ELEMENT

DUT: BCG-A2771; Type: Watch; Serial: F522RD9PVG

Communication System: UID:10032 - CAA, Bluetooth; MAIA: Y; Frequency: 2480.0 MHz

Medium: 2450 Head; Medium parameters used:

$f = 2480.0$ MHz; $\text{cond} = 1.91$ S/m; $\text{perm} = 38.3$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 06/06/2022; Ambient Temp: 20.3°C; Tissue Temp: 23.8°C

Probe: EX3DV4 - SN7674; ConvF:(7.54,7.54,7.54); Calibrated: 2021-09-06

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn1683; Calibrated: 2021-08-06

Phantom: Twin-SAM V8.0; Serial: 2071

Measurement SW: DASY Module SAR V16.0.2.136

Mode: Bluetooth, Extremity SAR, Ch.78, 1Mbps, Back Side, Aluminum, Metal Loop Wristband

Area Scan (70.0 x 80.0): Measurement grid: $dx=5.0$ mm, $dy=10.0$ mm

Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: $dx=5.0$ mm, $dy=5.0$ mm, $dz=1.5$ mm; Graded Ratio: 1.5

Reference Value = 0.38 W/kg; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.762 W/kg

SAR(10 g) = 0.119 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 77.5 %

