

APPENDIX A: SAR TEST DATA

ELEMENT

DUT: BCG-A3048; Type: Wireless Earbud; Serial: GX1KJ3UR26JY

Communication System: UID:10035 - CAA, Bluetooth; MAIA: Y; Frequency: 2441.0 MHz

Medium: 2450 Head; Medium parameters used:

$f = 2441.0$ MHz; $\text{cond} = 1.84$ S/m; $\text{perm} = 39.5$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 06/19/2023; Ambient Temp: 21.1°C; Tissue Temp: 22.6°C

Probe: EX3DV4 - SN7427; ConvF:(7.42,7.42,7.42); Calibrated: 2023-02-13

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

Electronics: DAE4 Sn1403; Calibrated: 2023-02-15

Phantom: Twin-SAM V8.0; Serial: 2027

Measurement SW: DASY Module SAR V16.2.0.1425

Mode: Bluetooth, Head SAR, Ch.39, 4Mbps, Ear tip Side, Left Earbud

Area Scan (60.0 x 60.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

Zoom Scan (32.0 x 32.0 x 30.0): Measurement grid: $dx=2.0$ mm, $dy=2.0$ mm, $dz=1.5$ mm; Graded Ratio: 1.5

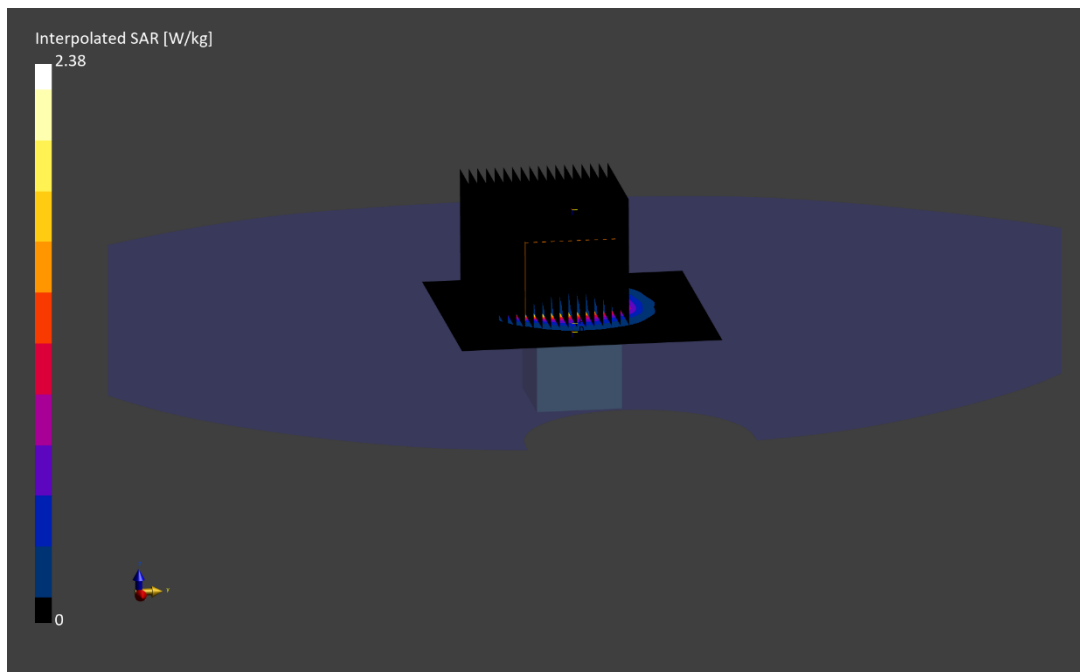
Reference Value = 0.35 W/kg; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 2.38 W/kg

SAR(1 g) = 0.348 W/kg

Smallest distance from peaks to all points 3 dB below is 2.4 mm

Ratio of SAR at M2 to SAR at M1 = 37.8 %



ELEMENT

DUT: BCG-A3048; Type: Wireless Earbud; Serial: GX1KJ3UR26JY

Communication System: UID:10035 - CAA, CW; MAIA: Y; Frequency: 5201.0 MHz

Medium: 5200-5800 Head; Medium parameters used:

$f = 5201.0$ MHz; $\text{cond} = 4.56$ S/m; $\text{perm} = 35.0$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 06/20/2023; Ambient Temp: 22.6°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN7427; ConvF:(5.12,5.12,5.12); Calibrated: 2023-02-13

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

Electronics: DAE4 Sn1403; Calibrated: 2023-02-15

Phantom: Twin-SAM V8.0; Serial: 2027

Measurement SW: DASY Module SAR V16.2.0.1425

Mode: NB UNII-1, Head SAR, Mid Ch., 4Mbps, Ear tip Side, Left Earbud

Area Scan (60.0 x 60.0): 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

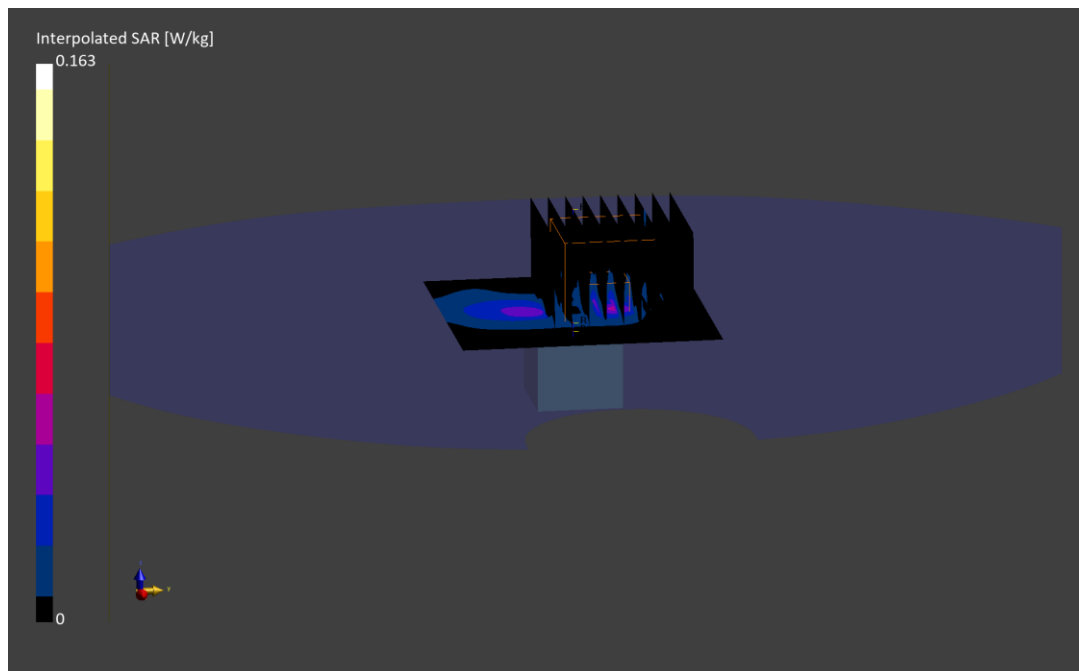
Reference Value = 0.03 W/kg; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.163 W/kg

SAR(1 g) = 0.041 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 63.4 %



ELEMENT

DUT: BCG-A3048; Type: Wireless Earbud; Serial: GX1KJ3UR26JY

Communication System: UID:10035 - CAA, Bluetooth; MAIA: Y; Frequency: 2402.0 MHz

Medium: 2450 Head; Medium parameters used:

$f = 2402.0$ MHz; $\text{cond} = 1.79$ S/m; $\text{perm} = 38.2$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 06/15/2023; Ambient Temp: 21.8°C; Tissue Temp: 21.4°C

Probe: EX3DV4 - SN7427; ConvF:(7.42,7.42,7.42); Calibrated: 2023-02-13

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

Electronics: DAE4 Sn1403; Calibrated: 2023-02-15

Phantom: Twin-SAM V8.0; Serial: 2027

Measurement SW: DASY Module SAR V16.2.0.1425

Mode: Bluetooth, Body-Worn SAR, Ch.0, 4Mbps, Antenna Touching, Left Earbud

Area Scan (60.0 x 60.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: $dx=3.5$ mm, $dy=3.5$ mm, $dz=1.4$ mm; Graded Ratio: 1.4

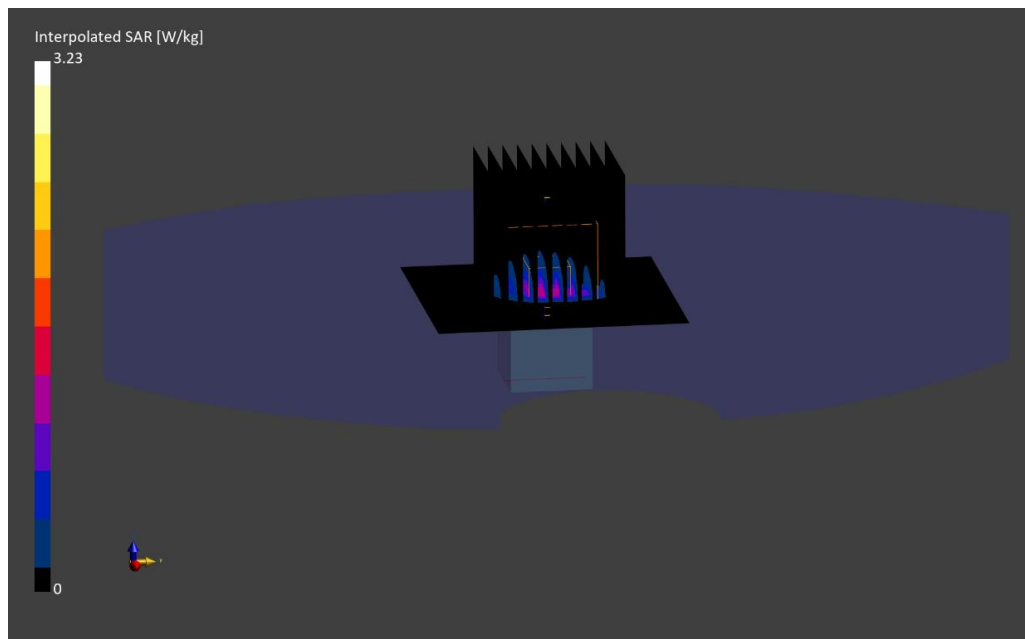
Reference Value = 1.02 W/kg; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 3.23 W/kg

SAR(1 g) = 0.985 W/kg

Smallest distance from peaks to all points 3 dB below is 5.0 mm

Ratio of SAR at M2 to SAR at M1 = 68.9 %



ELEMENT

DUT: BCG-A3048; Type: Wireless Earbud; Serial: GX1KJ3UR26JY

Communication System: UID:10035 - CAA, CW; MAIA: Y; Frequency: 5245.0 MHz

Medium: 5200-5800 Head; Medium parameters used:

$f = 5245.0$ MHz; $\text{cond} = 4.60$ S/m; $\text{perm} = 34.9$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 06/20/2023; Ambient Temp: 22.6°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN7427; ConvF:(5.12,5.12,5.12); Calibrated: 2023-02-13

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

Electronics: DAE4 Sn1403; Calibrated: 2023-02-15

Phantom: Twin-SAM V8.0; Serial: 2027

Measurement SW: DASY Module SAR V16.2.0.1425

Mode: NB UNII-1, Body-worn SAR, High Ch., 4Mbps, Back Side, Left Earbud

Area Scan (60.0 x 60.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

Zoom Scan (22.0 x 22.0 x 22.0): Measurement grid: $dx=1.8$ mm, $dy=1.8$ mm, $dz=1.2$ mm; Graded Ratio: 1.2

Reference Value = 0.66 W/kg; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 6.71 W/kg

SAR(1 g) = 0.831 W/kg

Smallest distance from peaks to all points 3 dB below is 2.9 mm

Ratio of SAR at M2 to SAR at M1 = 56.7 %

