

APPENDIX A: SAR TEST DATA

ELEMENT

DUT: BCG-A3047; Type: Wireless Earbud; Serial: GFJKJ14M26K0

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

Medium: 2450 Head; Medium parameters used:

$f = 2402.0$ MHz; $\text{cond} = 1.80$ S/m; $\text{perm} = 39.7$; $\text{density} = 1000$ 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.0, 4Mbps, Ear tip Side, Right 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: $dx=2.3$ mm, $dy=2.3$ mm, $dz=1.2$ mm; Graded Ratio: 1.2

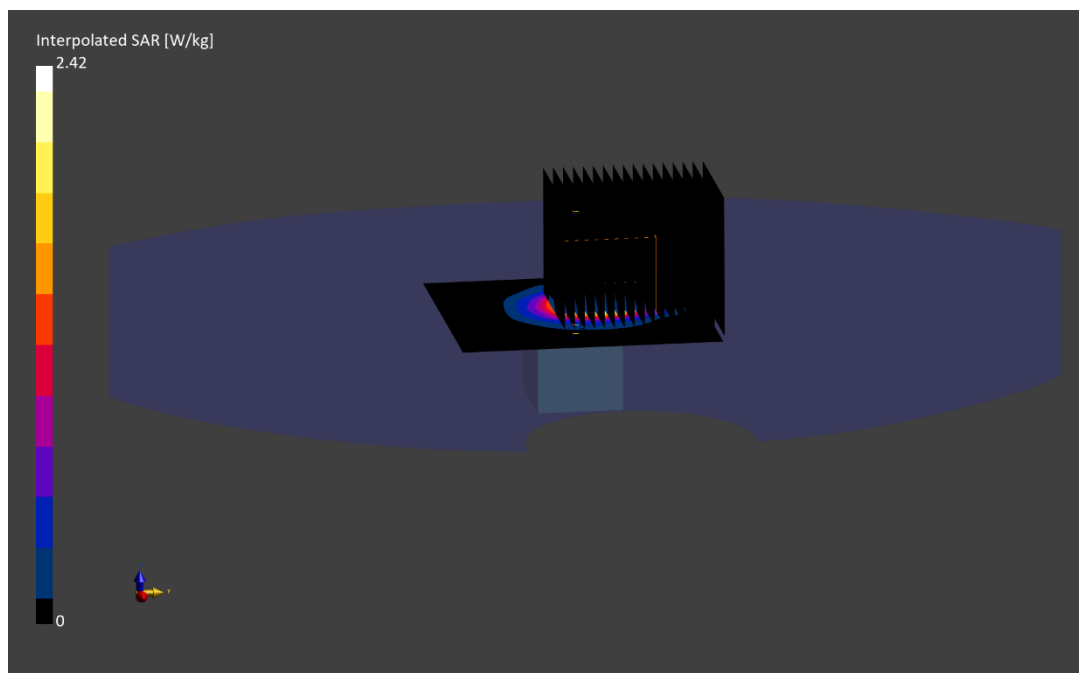
Reference Value = 0.34 W/kg; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 2.42 W/kg

SAR(1 g) = 0.335 W/kg

Smallest distance from peaks to all points 3 dB below is 3.1 mm

Ratio of SAR at M2 to SAR at M1 = 43.8 %



ELEMENT

DUT: BCG-A3047; Type: Wireless Earbud; Serial: GFJK14M26K0

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, Head SAR, High Ch., 4Mbps, Ear tip Side, Right 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

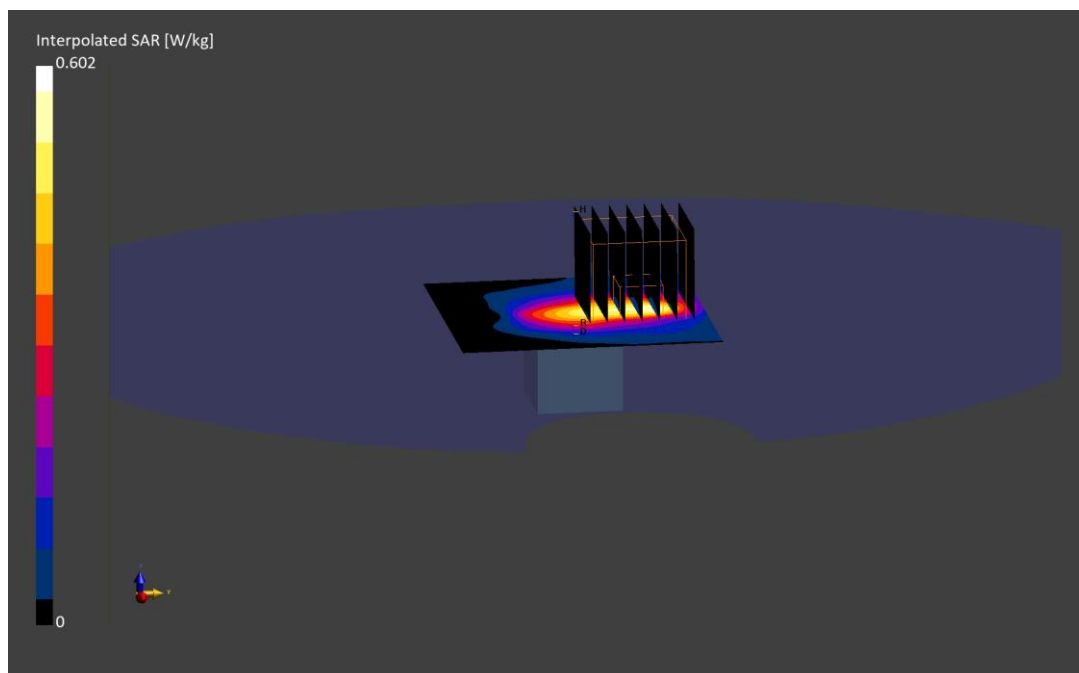
Reference Value = 0.06 W/kg; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.602 W/kg

SAR(1 g) = 0.083 W/kg

Smallest distance from peaks to all points 3 dB below is N/A

Ratio of SAR at M2 to SAR at M1 = 41.7 %



ELEMENT

DUT: BCG-A3047; Type: Wireless Earbud; Serial: GFJKJ14M26K0

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, Right 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: $dx=3.6$ mm, $dy=3.6$ mm, $dz=1.4$ mm; Graded Ratio: 1.4

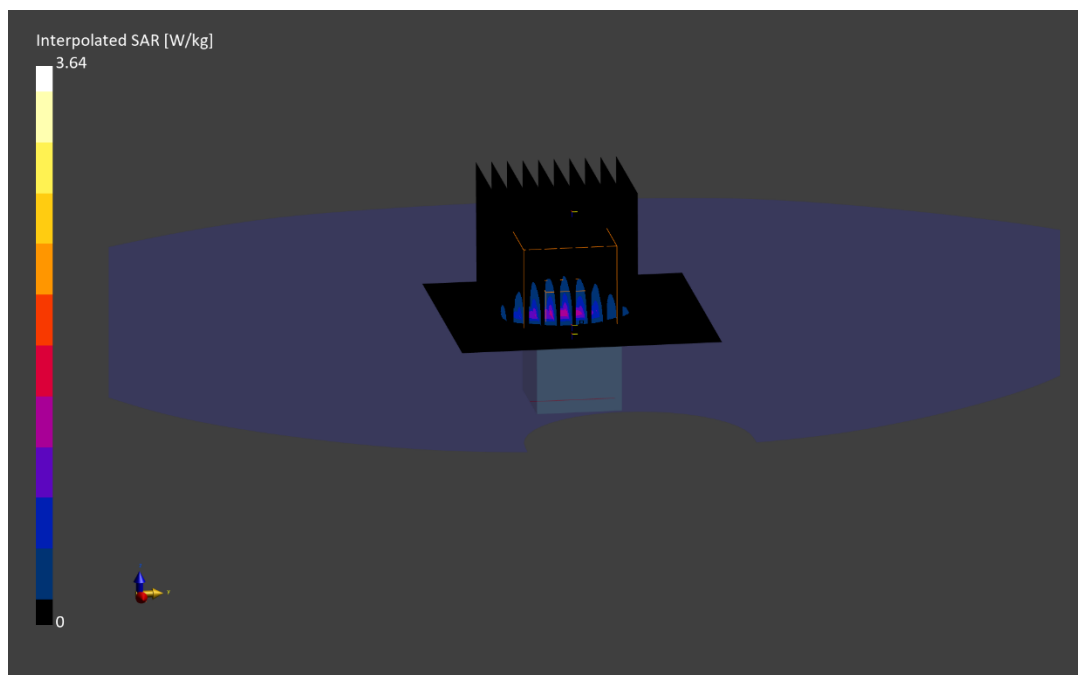
Reference Value = 0.98 W/kg; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 3.64 W/kg

SAR(1 g) = 1.01 W/kg

Smallest distance from peaks to all points 3 dB below is 4.4 mm

Ratio of SAR at M2 to SAR at M1 = 67.3 %



ELEMENT

DUT: BCG-A3047; Type: Wireless Earbud; Serial: GFJKJ14M26K0

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, Right 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: $dx=2.6$ mm, $dy=2.6$ mm, $dz=1.2$ mm; Graded Ratio: 1.2

Reference Value = 1.03 W/kg; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 6.92 W/kg

SAR(1 g) = 1.00 W/kg

Smallest distance from peaks to all points 3 dB below is 3.5 mm

Ratio of SAR at M2 to SAR at M1 = 55.1 %

