

APPENDIX A: SAR TEST PLOTS

FCC ID: BCG-A3581	RF EXPOSURE REPORT		Approved by: Technical Manager
DUT Type: Watch		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.	Appendix A

ELEMENT

DUT: BCG-A3581; Type: Watch; Serial: RM9FJ

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; $\text{perm} = 38.5$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 10.00 mm

Test Date: 07/07/2026; Ambient Temp: 24.0°C; Tissue Temp: 23.2°C

Probe: EX3DV4 - SN7551; ConvF:(6.86,6.94,7.06); Calibrated: 2026-03-10

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

Electronics: DAE4 Sn1323; Calibrated: 2026-03-10

Phantom: Twin-SAM V8.0; Serial: 2058

Measurement SW: DASY Module SAR V16.4.0.5005

Mode: 2.4 GHz WIFI/ IEEE 802.11b, 22 MHz Bandwidth,

Exp: Head| Front Side, Ch. 1, 1Mbps, 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 31.2): Measurement grid: $dx=5.0$ mm, $dy=5.0$ mm, $dz=1.5$ mm; Graded Ratio: 1.5

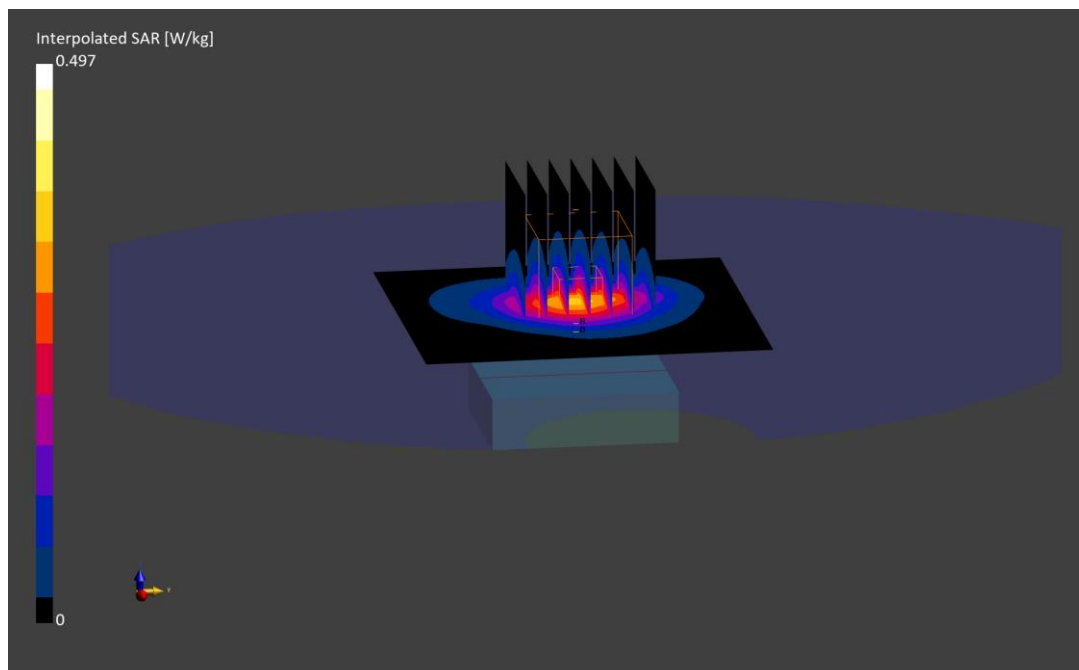
Reference Value = 0.23 W/kg; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.497 W/kg

SAR(1 g) = 0.271 W/kg

Smallest distance from peaks to all points 3 dB below is 11.5 mm

Ratio of SAR at M2 to SAR at M1 = 82.7 %



ELEMENT

DUT: BCG-A3581; Type: Watch; Serial: RM9FJ

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

Medium: 2450 Head; Medium parameters used:

f = 2412.0 MHz; cond = 1.82 S/m; perm = 38.5; density = 1000 kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 07/07/2026; Ambient Temp: 24.0°C; Tissue Temp: 23.2°C

Probe: EX3DV4 - SN7551; ConvF:(6.86,6.94,7.06); Calibrated: 2026-03-10

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

Electronics: DAE4 Sn1323; Calibrated: 2026-03-10

Phantom: Twin-SAM V8.0; Serial: 2058

Measurement SW: DASY Module SAR V16.4.0.5005

Mode: 2.4 GHz WIFI/ IEEE 802.11b, 22 MHz Bandwidth,

Exp: Extremity| Back Side, Ch. 1, 1Mbps, 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 35.0 x 31.2): Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.5 mm; Graded Ratio: 1.5

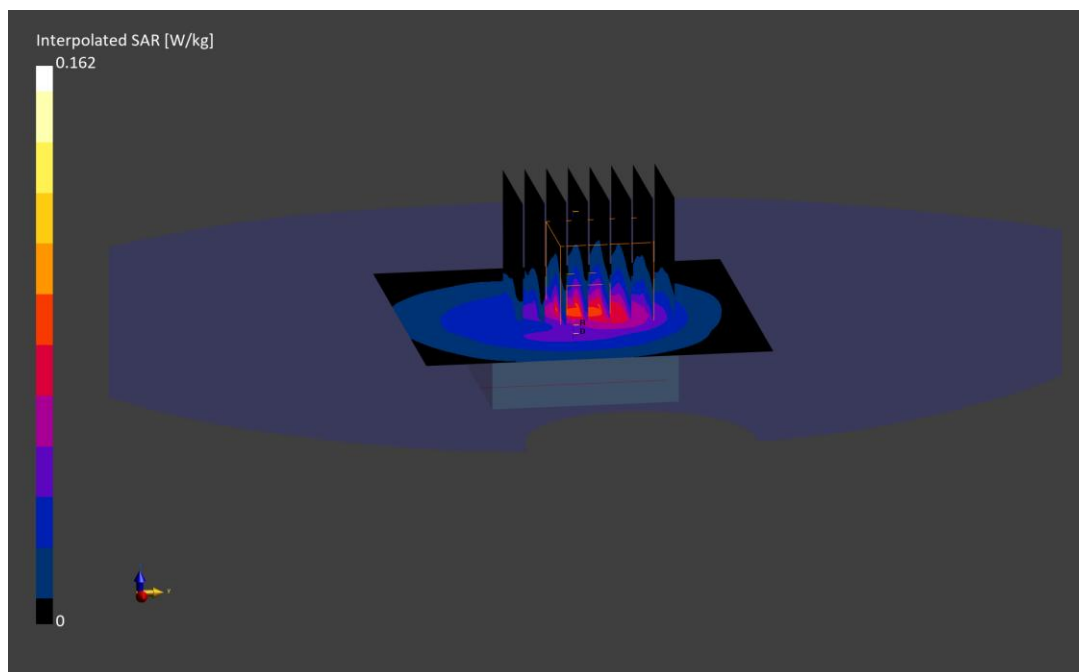
Reference Value = 0.06 W/kg; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.162 W/kg

SAR(10 g) = 0.035 W/kg

Smallest distance from peaks to all points 3 dB below is 8.6 mm

Ratio of SAR at M2 to SAR at M1 = 75.0 %



ELEMENT

DUT: BCG-A3581; Type: Watch; Serial: D4JLF

Communication System: UID:10417 - AAD, WLAN; MAIA: Y; Frequency: 5785.0 MHz
Medium: 5200-5800 Head; Medium parameters used:
f = 5785.0 MHz; cond = 5.10 S/m; perm = 35.1; density = 1000 kg/m³
Phantom Section: Flat; Space: 10.00 mm

Test Date: 06/14/2026; Ambient Temp: 19.0°C; Tissue Temp: 19.0°C

Probe: EX3DV4 - SN7668; ConvF:(4.84,4.91,4.69); Calibrated: 2025-08-11
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1681; Calibrated: 2025-08-08
Phantom: Twin-SAM V8.0; Serial: 2027
Measurement SW: DASY Module SAR V16.4.0.5005

**Mode: 5 GHz WIFI/ IEEE 802.11a, 20 MHz Bandwidth, U-NII-3,
Exp: Head| Front Side, Ch. 157, 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 (32.0 x 32.0 x 22.9): Measurement grid: dx=4.0 mm, dy=4.0 mm, dz=1.4 mm; Graded Ratio: 1.4

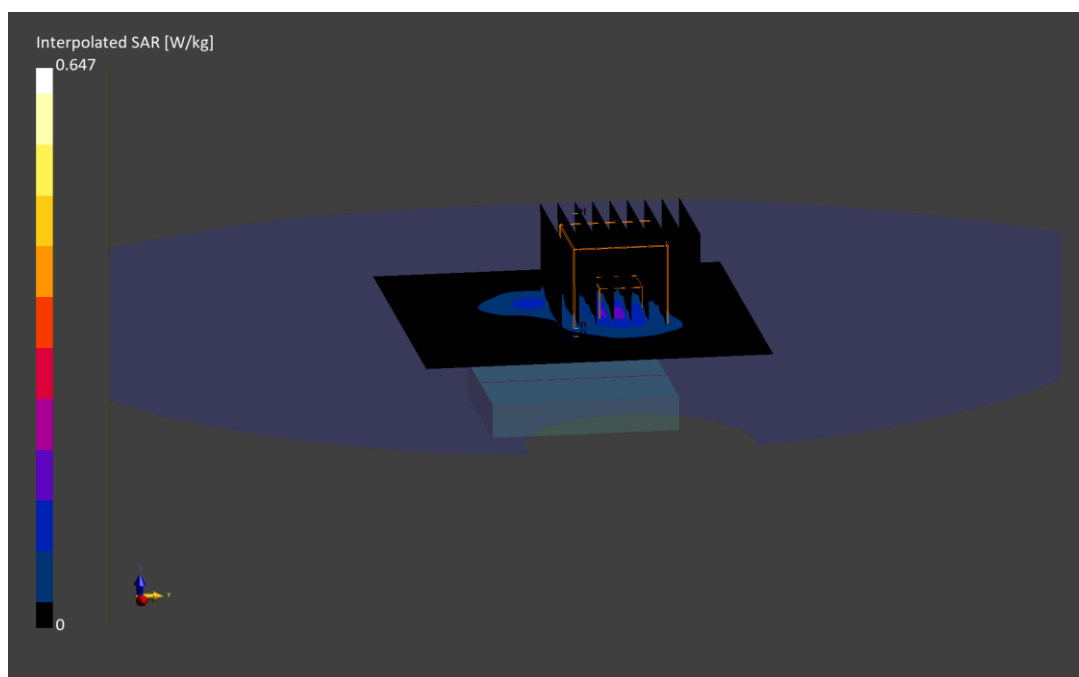
Reference Value = 0.07 W/kg; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.647 W/kg

SAR(1 g) = 0.147 W/kg

Smallest distance from peaks to all points 3 dB below is 8.0 mm

Ratio of SAR at M2 to SAR at M1 = 58.0 %



ELEMENT

DUT: BCG-A3581; Type: Watch; Serial: D4JLF

Communication System: UID:10417 - AAD, WLAN; MAIA: Y; Frequency: 5300.0 MHz

Medium: 5200-5800 Head; Medium parameters used:

f = 5300.0 MHz; cond = 4.55 S/m; perm = 35.9; density = 1000 kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 06/14/2026; Ambient Temp: 19.0°C; Tissue Temp: 19.0°C

Probe: EX3DV4 - SN7668; ConvF:(5.25,5.33,5.09); Calibrated: 2025-08-11

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

Electronics: DAE4 Sn1681; Calibrated: 2025-08-08

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

Measurement SW: DASY Module SAR V16.4.0.5005

Mode: 5 GHz WIFI/ IEEE 802.11a, 20 MHz Bandwidth, U-NII-2A,

Exp: Extremity| Back Side, Ch. 60, 6.0 Mbps, Aluminum, Metal Loop Wristband

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

Zoom Scan (36.4 x 33.6 x 25.0): Measurement grid: dx=2.8 mm, dy=2.8 mm, dz=1.2 mm; Graded Ratio: 1.2

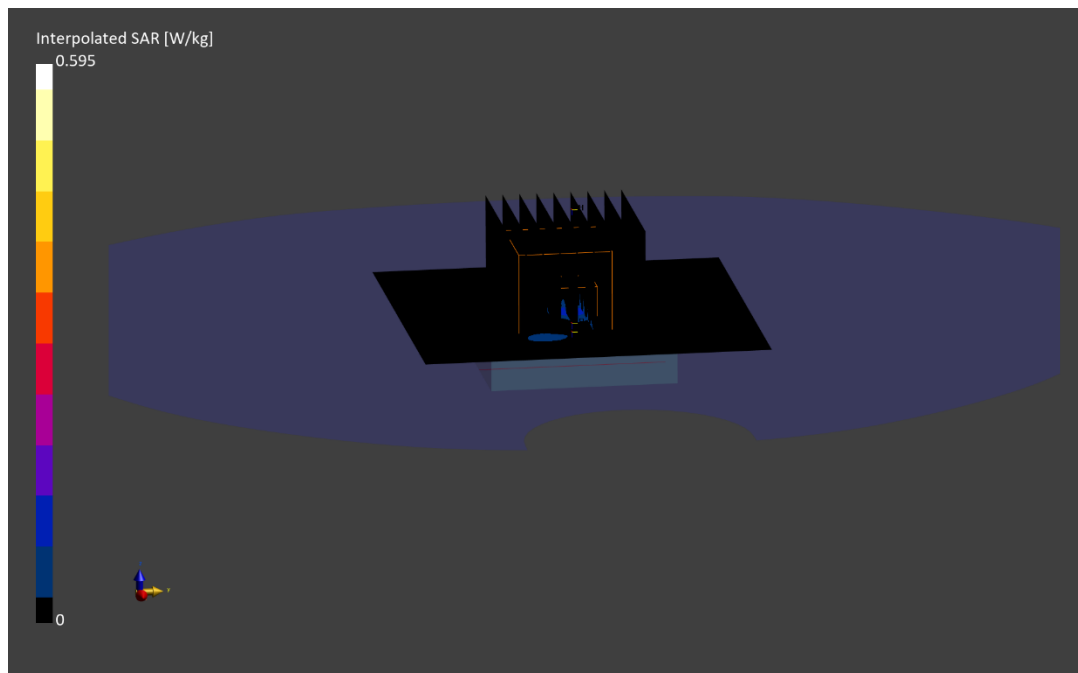
Reference Value = 0.16 W/kg; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.595 W/kg

SAR(10 g) = 0.010 W/kg

Smallest distance from peaks to all points 3 dB below is 4.1 mm

Ratio of SAR at M2 to SAR at M1 = 73.0 %



ELEMENT

DUT: BCG-A3581; Type: Watch; Serial: RM9FJ

Communication System: UID:10032 - CAA, Bluetooth; MAIA: Y; Frequency: 2402.0 MHz
Medium: 2450 Head; Medium parameters used:
f = 2402.0 MHz; cond = 1.81 S/m; perm = 38.3; density = 1000 kg/m³
Phantom Section: Flat; Space: 10.00 mm

Test Date: 06/16/2026; Ambient Temp: 22.5°C; Tissue Temp: 23.1°C

Probe: EX3DV4 - SN7551; ConvF:(6.86,6.94,7.06); Calibrated: 2026-03-10
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1323; Calibrated: 2026-03-10
Phantom: Twin-SAM V8.0; Serial: 2058
Measurement SW: DASY Module SAR V16.4.0.5005

Mode: 2.4 GHz Bluetooth, Exp: Head| Front Side, Ch. 0, 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 31.2): Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.5 mm; Graded Ratio: 1.5

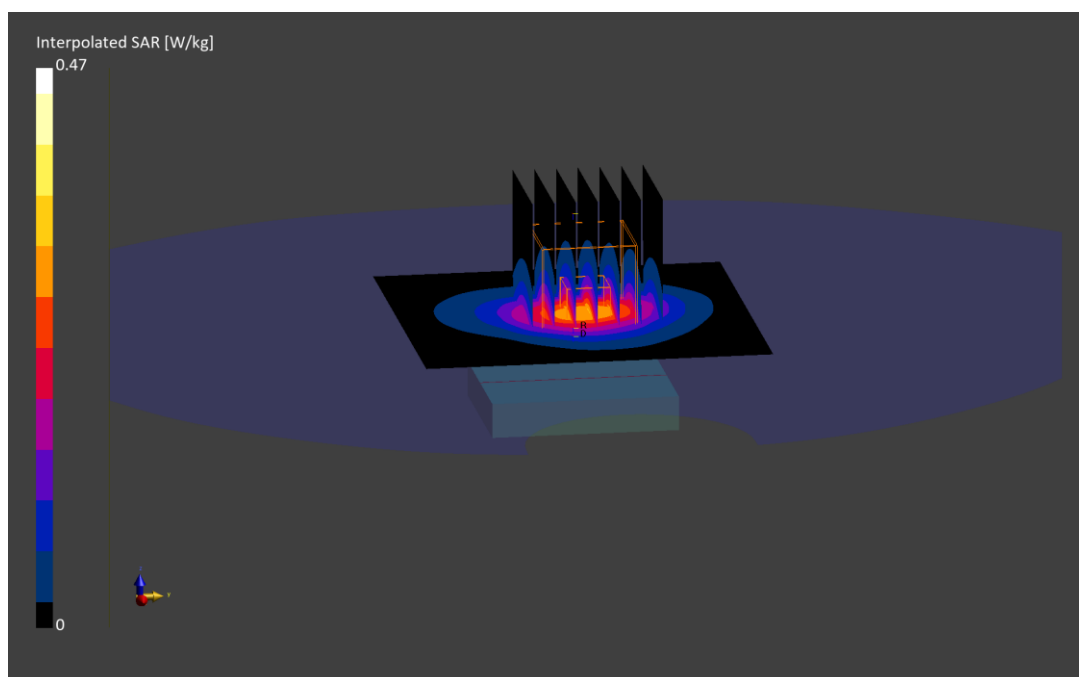
Reference Value = 0.21 W/kg; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.470 W/kg

SAR(1 g) = 0.257 W/kg

Smallest distance from peaks to all points 3 dB below is 11.5 mm

Ratio of SAR at M2 to SAR at M1 = 83.0 %



ELEMENT

DUT: BCG-A3581; Type: Watch; Serial: RM9FJ

Communication System: UID:10032 - CAA, Bluetooth; MAIA: Y; Frequency: 2402.0 MHz

Medium: 2450 Head; Medium parameters used:

$f = 2402.0$ MHz; $\text{cond} = 1.81$ S/m; $\text{perm} = 38.3$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 06/16/2026; Ambient Temp: 22.5°C; Tissue Temp: 23.1°C

Probe: EX3DV4 - SN7551; ConvF:(6.86,6.94,7.06); Calibrated: 2026-03-10

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

Electronics: DAE4 Sn1323; Calibrated: 2026-03-10

Phantom: Twin-SAM V8.0; Serial: 2058

Measurement SW: DASY Module SAR V16.4.0.5005

Mode: 2.4 GHz Bluetooth, Exp: Extremity| Back Side, Ch. 0, 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 35.0 x 31.2): Measurement grid: $dx=5.0$ mm, $dy=5.0$ mm, $dz=1.5$ mm; Graded Ratio: 1.5

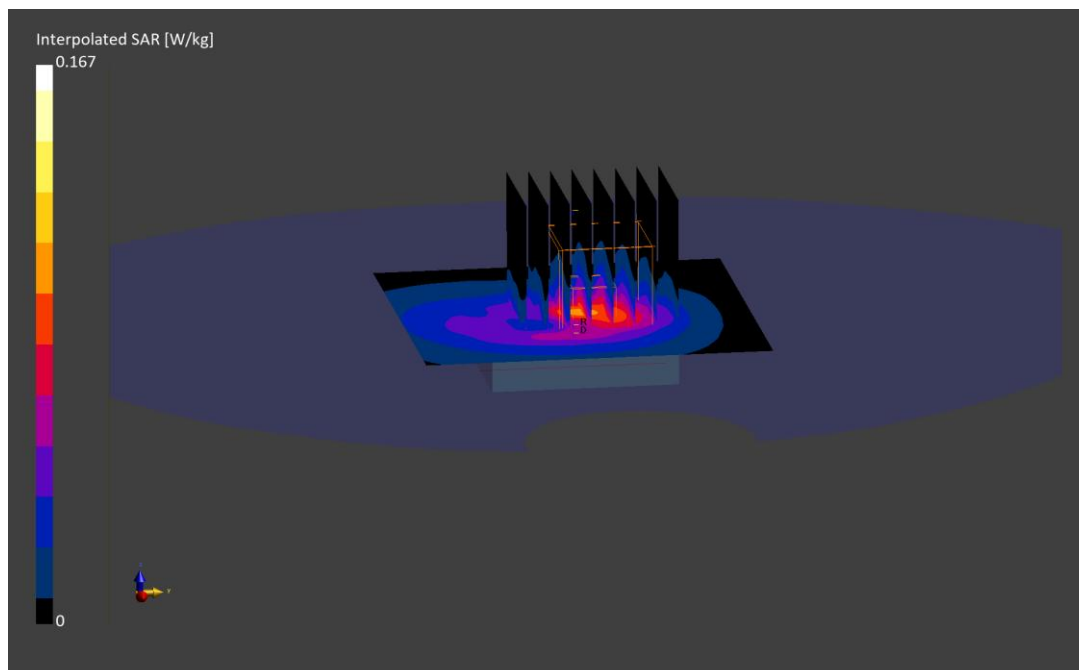
Reference Value = 0.07 W/kg; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.167 W/kg

SAR(10 g) = 0.039 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 = 75.8 %



ELEMENT

DUT: BCG-A3581; Type: Watch; Serial: C2TPX

Communication System: UID:0 - -, CW; MAIA: Y; Frequency: 5786.25 MHz
Medium: 5200-5800 Head; Medium parameters used:
 $f = 5786.25$ MHz; $\text{cond} = 5.11$ S/m; $\text{perm} = 34.1$; $\text{density} = 1000$ kg/m³
Phantom Section: Flat; Space: 10.00 mm

Test Date: 06/22/2026; Ambient Temp: 22.0°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN7490; ConvF:(4.92,5.02,5.19); Calibrated: 2025-12-23
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1644; Calibrated: 2025-12-03
Phantom: Twin-SAM V8.0; Serial: 2070
Measurement SW: DASY Module SAR V16.4.0.5005

Mode: 802.15.4 ab-NB, Exp: Head| Front Side, Ch. Mid, 0.25 Mbps
Aluminum, Sport Wristband

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

Zoom Scan (40.0 x 68.0 x 22.9): Measurement grid: $dx=4.0$ mm, $dy=4.0$ mm, $dz=1.4$ mm; Graded Ratio: 1.4

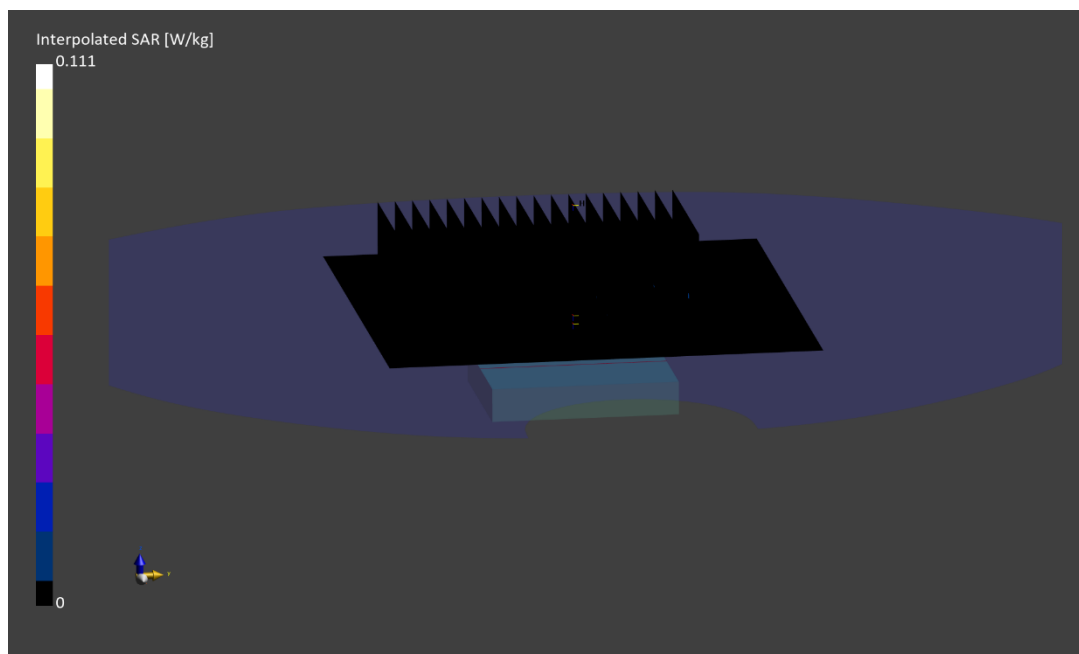
Reference Value = -0.01 W/kg; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.111 W/kg

SAR(1 g) = 0 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 83.5 %



ELEMENT

DUT: BCG-A3581; Type: Watch; Serial: D4JLF

Communication System: UID:0 - -, CW; MAIA: Y; Frequency: 5786.25 MHz
Medium: 5200-5800 Head; Medium parameters used:
 $f = 5786.25$ MHz; $\text{cond} = 5.11$ S/m; $\text{perm} = 34.1$; $\text{density} = 1000$ kg/m³
Phantom Section: Flat; Space: 0.00 mm

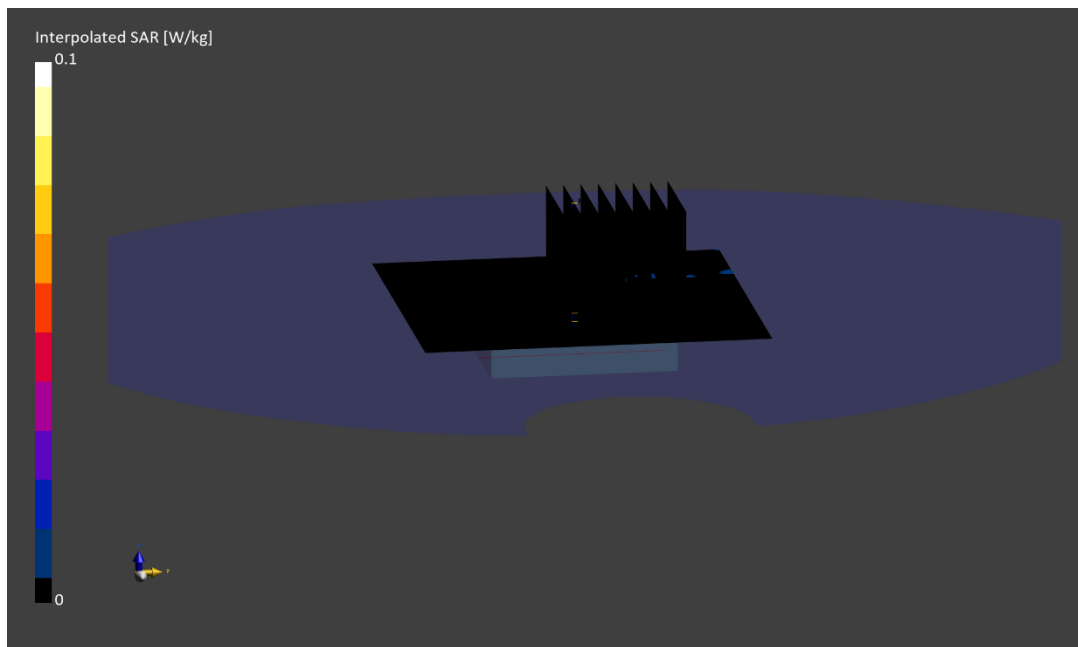
Test Date: 06/22/2026; Ambient Temp: 22.0°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN7490; ConvF:(4.92,5.02,5.19); Calibrated: 2025-12-23
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1644; Calibrated: 2025-12-03
Phantom: Twin-SAM V8.0; Serial: 2070
Measurement SW: DASY Module SAR V16.4.0.5005

Mode: 802.15.4 ab-NB, Exp: Extremity| Back Side, Ch. Mid, 0.25 Mbps
Aluminum, Sport Wristband

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

Zoom Scan (28.0 x 28.0 x 22.9): Measurement grid: $\text{dx}=4.0$ mm, $\text{dy}=4.0$ mm, $\text{dz}=1.4$ mm; Graded Ratio: 1.4
Reference Value = -0.03 W/kg; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.1 W/kg
SAR(10 g) = 0 W/kg
Smallest distance from peaks to all points 3 dB below is N/A
Ratio of SAR at M2 to SAR at M1 = N/A %



ELEMENT

DUT: BCG-A3581; Type: Watch; Serial: 4K3V1

Communication System: UID:0 - -, CW; MAIA: Y; Frequency: 13.6 MHz

Medium: 30 Head; Medium parameters used:

$f = 13.6$ MHz; $\text{cond} = 0.752$ S/m; $\text{perm} = 53.4$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 07/08/2026; Ambient Temp: 21.1°C; Tissue Temp: 24.6°C

Probe: EX3DV4 - SN7782; ConvF:(18.49,15.42,16.82); Calibrated: 2025-09-15

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

Electronics: DAE4 Sn1646; Calibrated: 2025-09-10

Phantom: ELI V6.0; Serial: 2003

Measurement SW: DASY Module SAR V16.4.0.5005

Mode: NFC, Exp: Extremity| Back Side, Aluminum, Sport Wristband

Area Scan (90.0 x 105.0): Measurement grid: $\text{dx}=15.0$ mm, $\text{dy}=15.0$ mm

Zoom Scan (36.0 x 54.0 x 31.2): Measurement grid: $\text{dx}=6.0$ mm, $\text{dy}=6.0$ mm, $\text{dz}=1.5$ mm; Graded Ratio: 1.5

Reference Value = 0.00 W/kg; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.1 W/kg

SAR(10 g) = 0 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 54.9 %

