

APPENDIX A: SAR TEST PLOTS

ELEMENT

DUT: BCGA2937; Type: Location Tracking Tag; Serial: CKJT7JL69W

Communication System: UID:10670 - AAA, Bluetooth; MAIA: Y; Frequency: 2440.0 MHz

Medium: 2450 Head; Medium parameters used:

$f = 2440.0$ MHz; $\text{cond} = 1.77$ S/m; $\text{perm} = 38.9$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 11/14/2025; Ambient Temp: 22.1°C; Tissue Temp: 20.4°C

Probe: EX3DV4 - SN7490; ConvF:(7.25,7.34,7.05); Calibrated: 2024-12-09

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

Electronics: DAE4 Sn1644; Calibrated: 2024-12-04

Phantom: Twin-SAM V8.0; Serial: 2067

Measurement SW: DASY Module SAR V16.4.0.5005

Mode: 2.4 GHz Bluetooth LE, Exp: Body-worn and Extremity| Front Side, Ch. 19, 1 Mbps

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

Zoom Scan (35.0 x 30.0 x 31.2): Measurement grid: $dx=5.0$ mm, $dy=5.0$ mm, $dz=1.5$ mm; Graded Ratio: 1.5

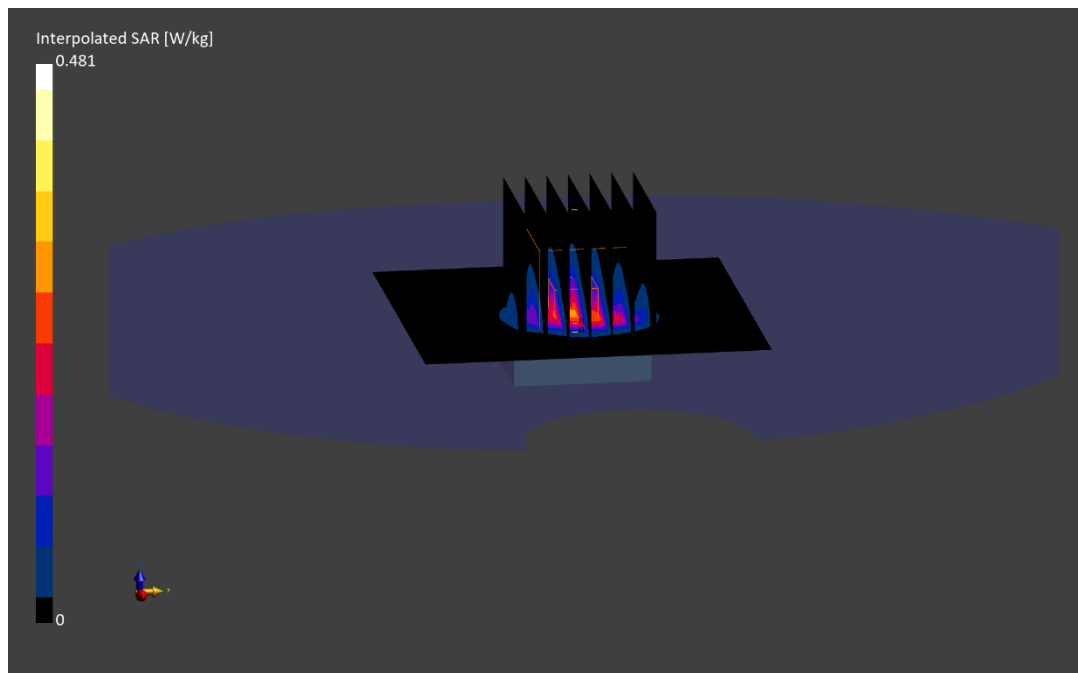
Reference Value = 0.29 W/kg; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.481 W/kg

SAR(1 g) = 0.223 W/kg, SAR(10g) = 0.102 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 = 79.1 %



ELEMENT

DUT: BCGA2937; Type: Location Tracking Tag; Serial: CKJT7JL69W

Communication System: UID:0 - -, CW; MAIA: Y; Frequency: 5846.3 MHz
Medium: 5200-5800 Head; Medium parameters used:
f = 5846.3 MHz; cond = 5.28 S/m; perm = 35.0; density = 1000 kg/m³
Phantom Section: Flat; Space: 0.00 mm

Test Date: 12/05/2025; Ambient Temp: 22.1°C; Tissue Temp: 20.2°C

Probe: EX3DV4 - SN7668; ConvF:(4.67,4.74,4.52); 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: 802.15.4ab-NB, Exp: Body-worn| Front Side, Ch. High, 1 Mbps

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

Zoom Scan (29.0 x 26.1 x 22.9): Measurement grid: dx=2.9 mm, dy=2.9 mm, dz=1.4 mm; Graded Ratio: 1.4

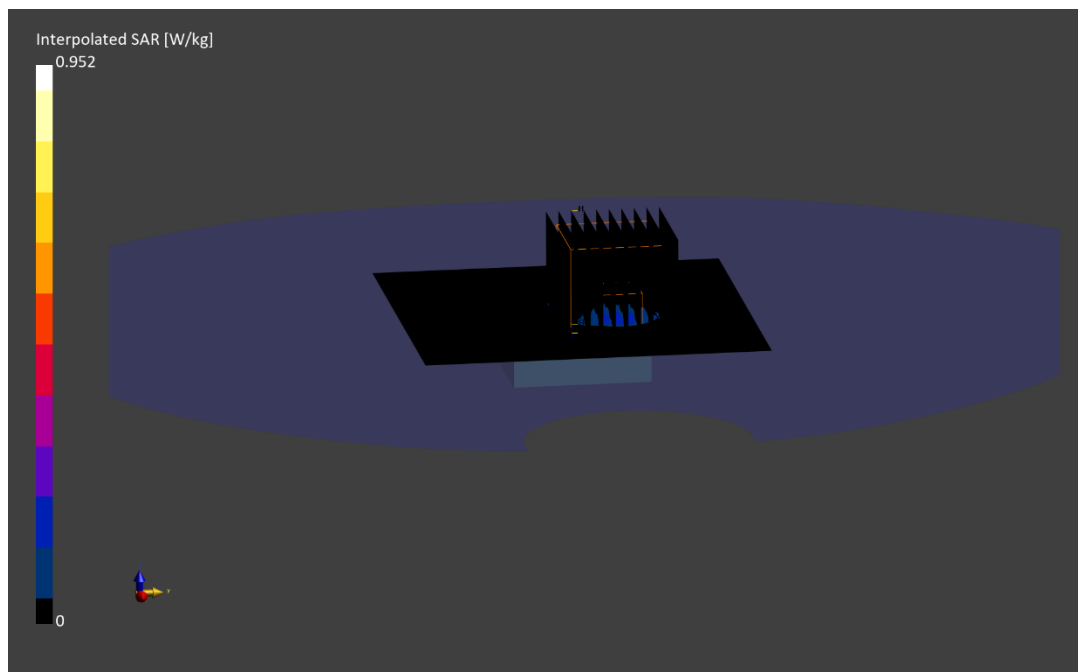
Reference Value = 0.01 W/kg; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.952 W/kg

SAR(1 g) = 0.162 W/kg

Smallest distance from peaks to all points 3 dB below is 4.7 mm

Ratio of SAR at M2 to SAR at M1 = 46.5 %



ELEMENT

DUT: BCGA2937; Type: Location Tracking Tag; Serial: CKJT7JL69W

Communication System: UID:0 - -, CW; MAIA: Y; Frequency: 5786.3 MHz
Medium: 5200-5800 Head; Medium parameters used:
f = 5786.3 MHz; cond = 5.20 S/m; perm = 35.1; density = 1000 kg/m³
Phantom Section: Flat; Space: 0.00 mm

Test Date: 12/05/2025; Ambient Temp: 22.1°C; Tissue Temp: 20.2°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: 802.15.4ab-NB, Exp: Extremity| Front Side, Ch. Mid, 1 Mbps

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

Zoom Scan (27.0 x 27.0 x 22.9): Measurement grid: dx=3.0 mm, dy=3.0 mm, dz=1.4 mm; Graded Ratio: 1.4

Reference Value = 0.01 W/kg; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.07 W/kg

SAR(10 g) = 0.040 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 = 42.3 %

