

## APPENDIX A: SAR TEST PLOTS

# ELEMENT

**DUT: 2AKLX-9808; Type: Portable Wireless Microphone; Serial: 37028**

Communication System: UID:10169 - CAE, CW; MAIA: Y; Frequency: 169.1 MHz

Medium: 300 Head; Medium parameters used:

f = 169.1 MHz; cond = 0.741 S/m; perm = 50.6; density = 1000 kg/m<sup>3</sup>

Phantom Section: Flat; Space: 0.00 mm

Test Date: 9/18/2023; Ambient Temp: 20.0°C; Tissue Temp: 19.0°C

Probe: EX3DV4 - SN3914; ConvF:(12.39,12.39,12.39); Calibrated: 2023-05-19

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

Electronics: DAE4 Sn728; Calibrated: 2023-05-11

Phantom: ELI V4.0; Serial: 1202

Measurement SW: DASY Module SAR V16.2.0.1425

**Mode: Wireless Audio Forward-Link, Antenna 8, Body/Extremity SAR, Left Side, Low.ch**

**Area Scan (160.0 x 300.0):** Measurement grid: dx=5.0 mm, dy=15.0 mm

**Zoom Scan (30.0 x 30.0 x 30.0):** Measurement grid: dx=2.6 mm, dy=2.6 mm, dz=1.2 mm; Graded Ratio: 1.2

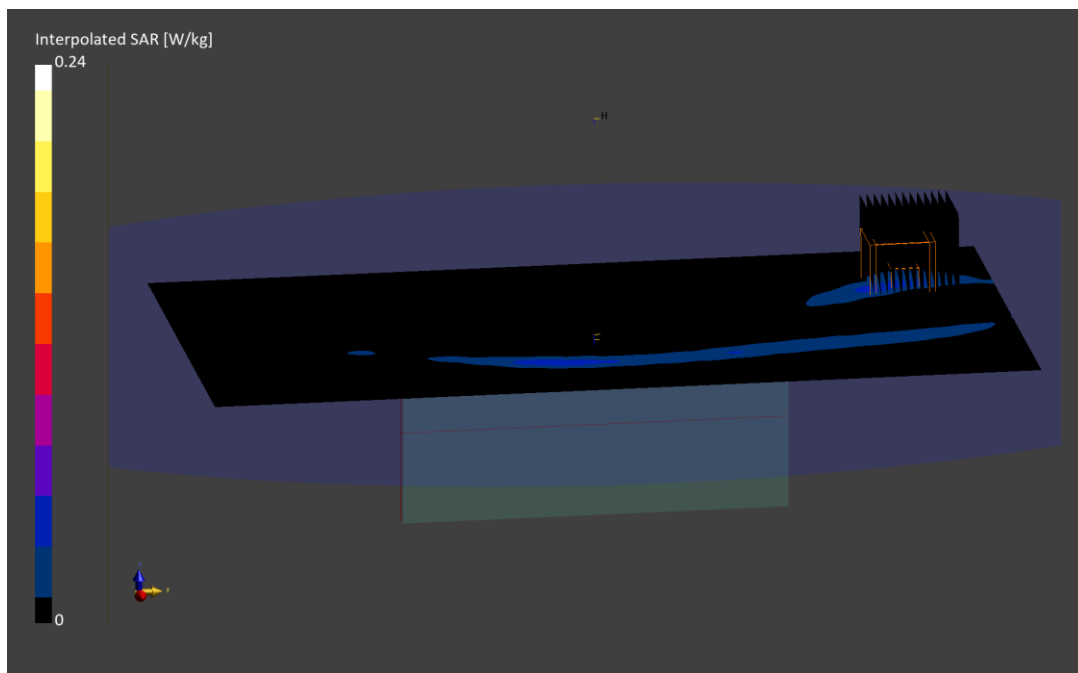
Reference Value = 0.01 W/kg; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.403 W/kg

**SAR(1 g) = 0.053 W/kg; SAR (10g) = 0.020 W/kg**

Smallest distance from peaks to all points 3 dB below is 3.7 mm

Ratio of SAR at M2 to SAR at M1 = 44.9 %



# ELEMENT

**DUT: 2AKLX-9808; Type: Portable Wireless Microphone; Serial: 37028**

Communication System: UID:10169 - CAE, CW; MAIA: Y; Frequency: 509.0 MHz

Medium: 450 Head; Medium parameters used:

f = 509.0 MHz; cond = 0.853 S/m; perm = 43.5; density = 1000 kg/m<sup>3</sup>

Phantom Section: Flat; Space: 0.00 mm

Test Date: 9/19/2023; Ambient Temp: 20.7°C; Tissue Temp: 24.0°C

Probe: EX3DV4 - SN3914; ConvF:(10.3,10.3,10.3); Calibrated: 2023-05-19

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

Electronics: DAE4 Sn728; Calibrated: 2023-05-11

Phantom: ELI V4.0; Serial: 1202

Measurement SW: DASY Module SAR V16.2.0.1425

**Mode: Wireless Audio Forward-Link, Antenna 1, Body/Extremity SAR, Left Side, Mid.ch**

**Area Scan (40.0 x 270.0):** Measurement grid: dx=5.0 mm, dy=15.0 mm

**Zoom Scan (30.0 x 30.0 x 30.0):** Measurement grid: dx=6.0 mm, dy=6.0 mm, dz=1.5 mm; Graded Ratio: 1.5

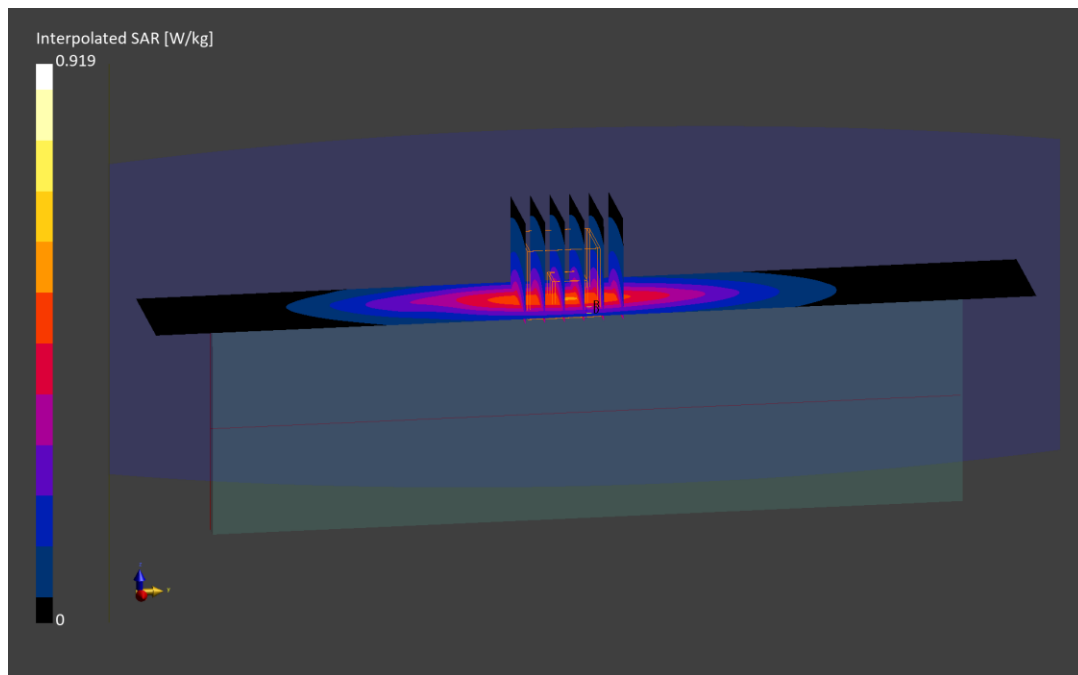
Reference Value = 0.30 W/kg; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.919 W/kg

**SAR(1 g) = 0.486 W/kg; SAR (10g) = 0.289 W/kg**

Smallest distance from peaks to all points 3 dB below is 13.2 mm

Ratio of SAR at M2 to SAR at M1 = 76.7 %



# ELEMENT

**DUT: 2AKLX-9808; Type: Portable Handset; Serial: 37028**

Communication System: UID:10169 - CAE, CW; MAIA: Y; Frequency: 548.1 MHz

Medium: 600 Head; Medium parameters used:

f = 548.1 MHz; cond = 0.874 S/m; perm = 44.5; density = 1000 kg/m<sup>3</sup>

Phantom Section: Flat; Space: 0.00 mm

Test Date: 02/05/2024; Ambient Temp: 20.6°C; Tissue Temp: 19.7°C

Probe: EX3DV4 - SN3914; ConvF:(10.44,10.44,10.44); Calibrated: 2023-05-19

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

Electronics: DAE4 Sn728; Calibrated: 2023-05-11

Phantom: Twin-SAM V8.0; Serial: 2064

Measurement SW: DASY Module SAR V16.2.0.1425

**Mode: Wireless Audio Forward-Link, Antenna 2, Body/Extremity SAR, Back Side, Low.ch**

**Area Scan (120.0 x 240.0):** Measurement grid: dx=15.0 mm, dy=15.0 mm

**Zoom Scan (30.0 x 30.0 x 30.0):** Measurement grid: dx=6.0 mm, dy=6.0 mm, dz=1.5 mm; Graded Ratio: 1.5

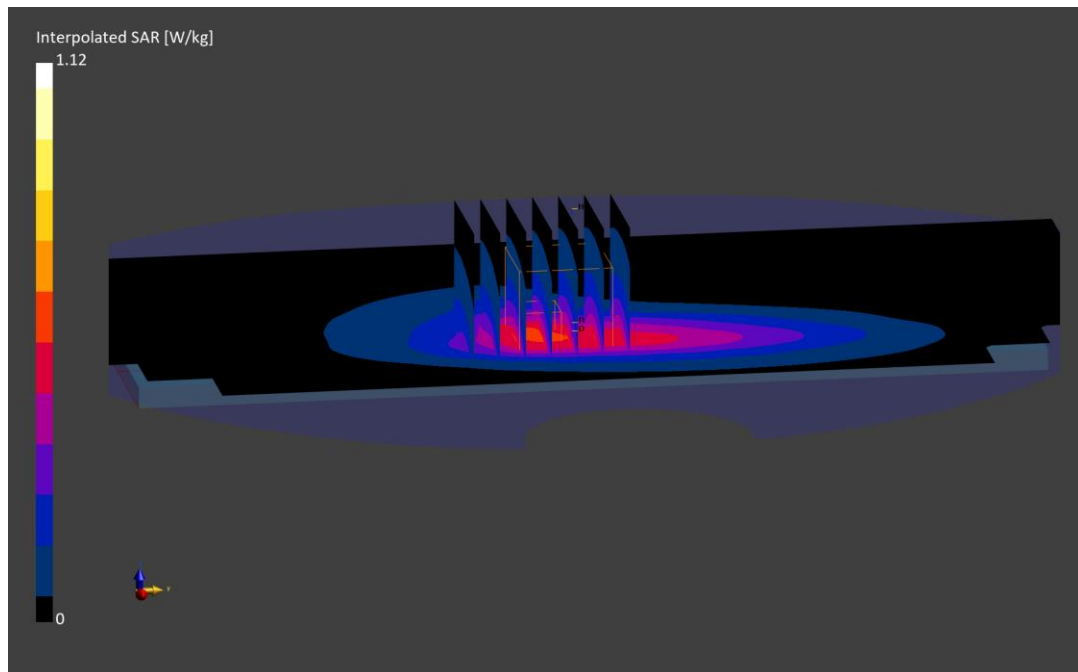
Reference Value = 0.54 W/kg; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.12 W/kg

**SAR(1 g) = 0.542 W/kg; SAR(10 g) = 0.328W/kg**

Smallest distance from peaks to all points 3 dB below is 11.9 mm

Ratio of SAR at M2 to SAR at M1 = 78.1 %



# ELEMENT

**DUT: 2AKLX-9808; Type: Portable Wireless Microphone; Serial: 37026**

Communication System: UID:10169 - CAE, CW; MAIA: Y; Frequency: 915.0 MHz

Medium: 900 Head; Medium parameters used:

f = 915.0 MHz; cond = 0.936 S/m; perm = 41.7; density = 1000 kg/m<sup>3</sup>

Phantom Section: Flat; Space: 0.00 mm

Test Date: 09/18/2023; Ambient Temp: 20.0°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7406; ConvF:(9.53,9.53,9.53); Calibrated: 2023-07-07

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

Electronics: DAE4 Sn1677; Calibrated: 2023-07-10

Phantom: Twin-SAM V8.0; Serial: 2056

Measurement SW: DASY Module SAR V16.2.0.1425

**Mode: Wireless Audio Forward-Link, Antenna 5, Extremity SAR, Back Side, Mid.ch**

**Area Scan (120.0 x 210.0):** Measurement grid: dx=15.0 mm, dy=15.0 mm

**Zoom Scan (30.0 x 30.0 x 30.0):** Measurement grid: dx=6.0 mm, dy=6.0 mm, dz=1.5 mm; Graded Ratio: 1.5

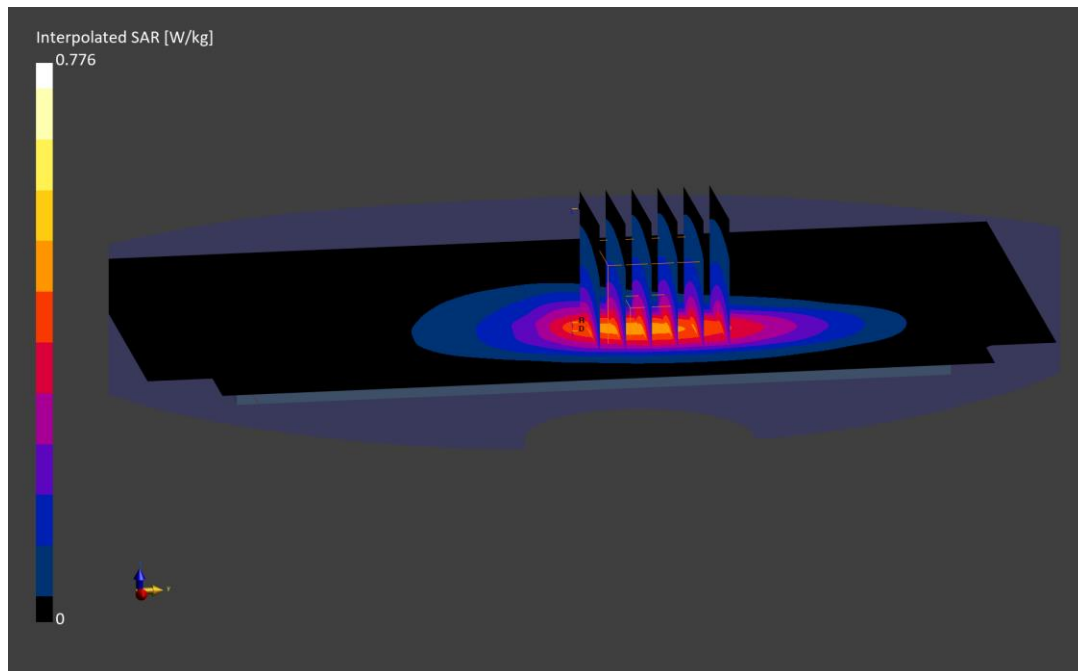
Reference Value = 0.40 W/kg; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.776 W/kg

**SAR(10 g) = 0.268 W/kg**

Smallest distance from peaks to all points 3 dB below is 13.2 mm

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



# ELEMENT

**DUT: 2AKLX-9808; Type: Portable Wireless Microphone; Serial: 37026**

Communication System: UID:10169 - CAE, CW; MAIA: Y; Frequency: 953.1 MHz

Medium: 900 Head; Medium parameters used:

f = 953.1 MHz; cond = 0.951 S/m; perm = 41.6; density = 1000 kg/m<sup>3</sup>

Phantom Section: Flat; Space: 0.00 mm

Test Date: 09/18/2023; Ambient Temp: 20.0°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7406; ConvF:(9.53,9.53,9.53); Calibrated: 2023-07-07

Sensor-Surface: 1.4mm (All points)

Electronics: DAE4 Sn1677; Calibrated: 2023-07-10

Phantom: Twin-SAM V8.0; Serial: 2056

Measurement SW: DASY Module SAR V16.2.0.1425

**Mode: Wireless Audio Forward-Link, Antenna 5, Body SAR, Back Side, Mid.ch**

**Area Scan (120.0 x 210.0):** Measurement grid: dx=15.0 mm, dy=15.0 mm

**Zoom Scan (30.0 x 30.0 x 30.0):** Measurement grid: dx=6.0 mm, dy=6.0 mm, dz=1.5 mm; Graded Ratio: 1.5

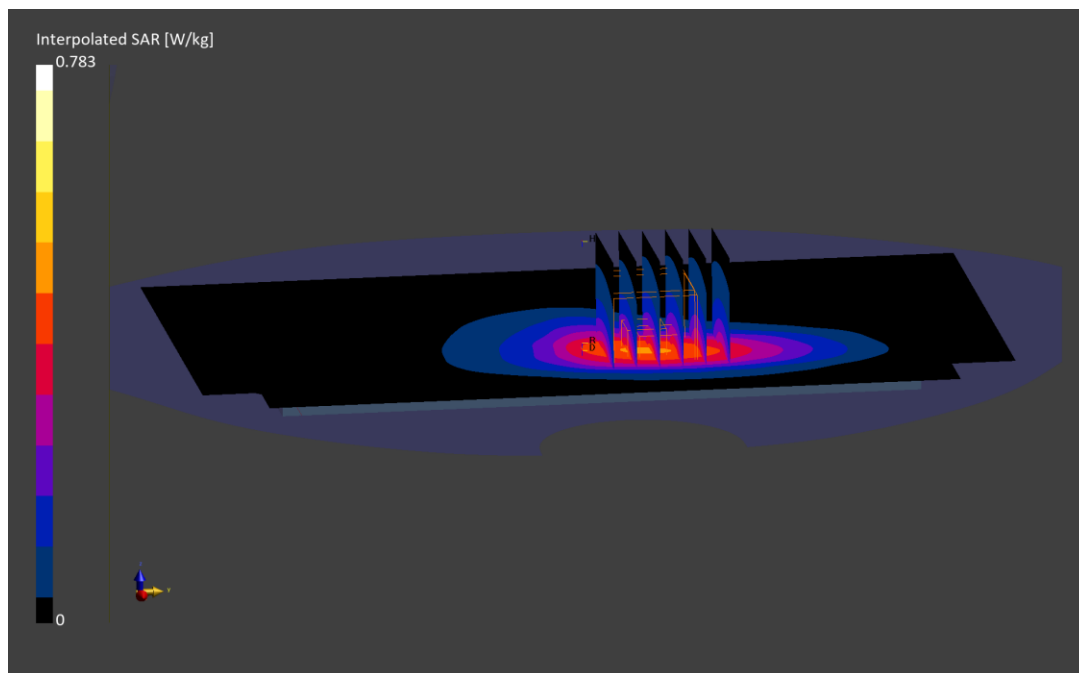
Reference Value = 0.39 W/kg; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.783 W/kg

**SAR(1 g) = 0.443 W/kg**

Smallest distance from peaks to all points 3 dB below is 13.2 mm

Ratio of SAR at M2 to SAR at M1 = 81.9 %



# ELEMENT

**DUT: 2AKLX-9808; Type: Portable Wireless Microphone; Serial: 37028**

Communication System: UID:10169 - CAE, CW; MAIA: Y; Frequency: 1524.9 MHz

Medium: 1450 Head; Medium parameters used:

f = 1524.9 MHz; cond = 1.27 S/m; perm = 41.4; density = 1000 kg/m<sup>3</sup>

Phantom Section: Flat; Space: 0.00 mm

Test Date: 9/15/2023; Ambient Temp: 19.3°C; Tissue Temp: 20.4°C

Probe: EX3DV4 - SN3914; ConvF:(7.93,7.93,7.93); Calibrated: 2023-05-19

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

Electronics: DAE4 Sn728; Calibrated: 2023-05-11

Phantom: Twin-SAM V8.0; Serial: 2064

Measurement SW: DASY Module SAR V16.2.0.1425

**Mode: Wireless Audio Forward-Link, Antenna 7, Body/Extremity SAR, Back Side, High.ch**

**Area Scan (120.0 x 180.0):** Measurement grid: dx=15.0 mm, dy=15.0 mm

**Zoom Scan (30.0 x 30.0 x 30.0):** Measurement grid: dx=6.0 mm, dy=6.0 mm, dz=1.5 mm; Graded Ratio: 1.5

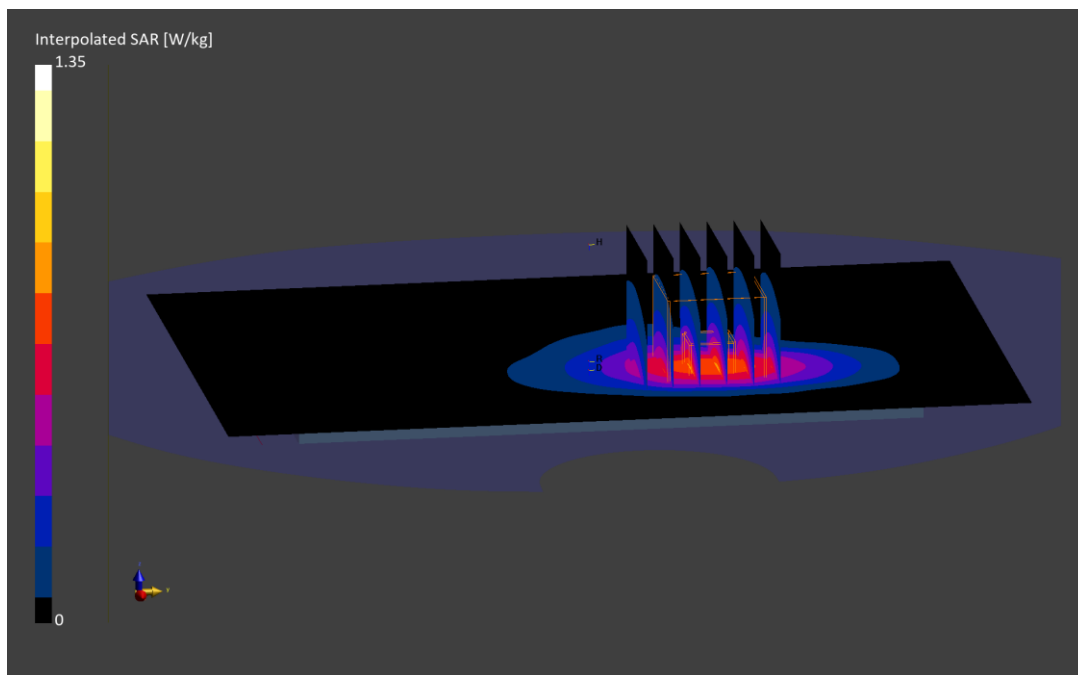
Reference Value = 0.74 W/kg; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.35 W/kg

**SAR(1 g) = 0.722 W/kg; SAR(10g) = 0.406 W/kg**

Smallest distance from peaks to all points 3 dB below is 11.9 mm

Ratio of SAR at M2 to SAR at M1 = 79.6 %



# ELEMENT

**DUT: 2AKLX-9808; Type: Portable Wireless Microphone; Serial: 37028**

Communication System: UID:10032 - CAA, CW; MAIA: Y; Frequency: 2440.8 MHz

Medium: 2450 Head; Medium parameters used:

f = 2440.8 MHz; cond = 1.78 S/m; perm = 39.4; density = 1000 kg/m<sup>3</sup>

Phantom Section: Flat; Space: 0.00 mm

Test Date: 09/20/2023; Ambient Temp: 24.6°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN7661; ConvF:(8.03,8.03,8.03); Calibrated: 2023-06-14

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

Electronics: DAE4 Sn728; Calibrated: 2023-05-11

Phantom: ELI V4.0; Serial: 1202

Measurement SW: DASY Module SAR V16.2.0.1425

**Mode: 2.4 GHz NexLink, Body/Extremity SAR, Back Side, Ch. 100, 1.09 kbps**

**Area Scan (120.0 x 200.0):** 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

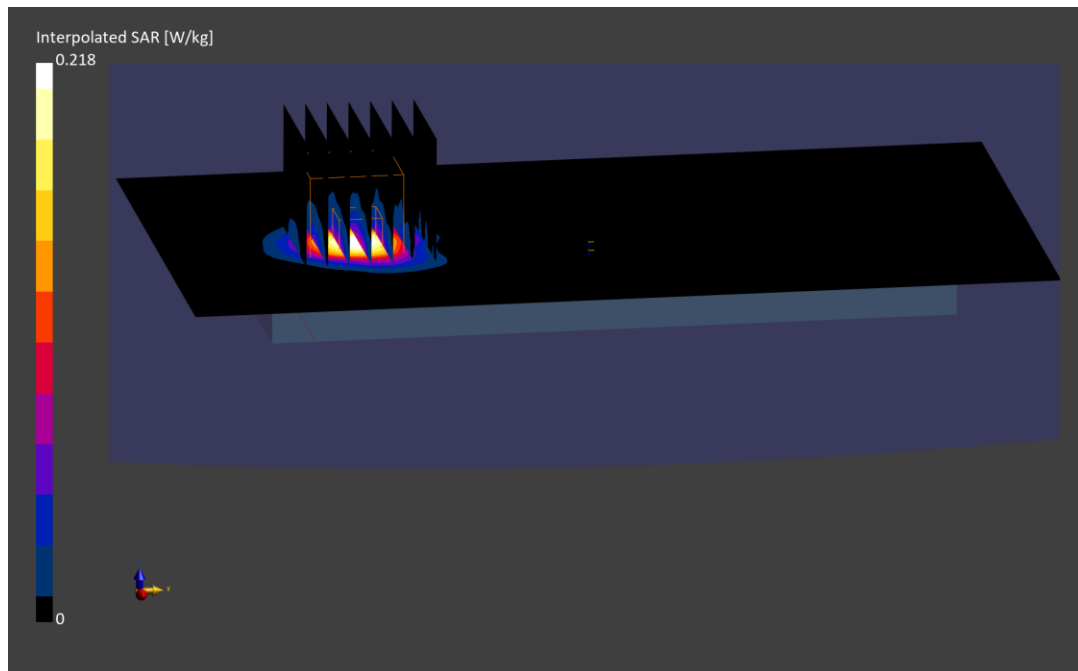
Reference Value = 0.04 W/kg; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.218 W/kg

**SAR(1 g) = 0.078 W/kg; SAR(10 g) = 0.035 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 = 67.5 %



# ELEMENT

**DUT: 2AKLX-9808; Type: Portable Wireless Microphone; Serial: 37028**

Communication System: UID:10670 - AAA, Bluetooth; MAIA: Y; Frequency: 2402.0 MHz

Medium: 2450 Head; Medium parameters used:

$f = 2402.0$  MHz;  $\text{cond} = 1.75$  S/m;  $\text{perm} = 39.5$ ;  $\text{density} = 1000$  kg/m<sup>3</sup>

Phantom Section: Flat; Space: 0.00 mm

Test Date: 09/20/2023; Ambient Temp: 24.6°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN7661; ConvF:(8.03,8.03,8.03); Calibrated: 2023-06-14

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

Electronics: DAE4 Sn728; Calibrated: 2023-05-11

Phantom: ELI V4.0; Serial: 1202

Measurement SW: DASY Module SAR V16.2.0.1425

**Mode: Bluetooth LE, Body/Extremity SAR, Ch. 0, 1Mbps, Back Side**

**Area Scan (120.0 x 200.0):** 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 = 0.02 W/kg; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.109 W/kg

**SAR(1 g) = 0.038 W/kg; SAR(10 g) = 0.016 W/kg**

Smallest distance from peaks to all points 3 dB below is 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 71.9 %

