

APPENDIX A: SAR TEST PLOTS

ELEMENT

DUT: 2AVFA-YESWECAN; Type: Smart Cane; Serial: 22/410-1

Communication System: UID:10175 - CAH, LTE-FDD; MAIA: Y; Frequency: 707.5 MHz

Medium: 1750 Body; Medium parameters used:

$f = 707.5$ MHz; $\text{cond} = 0.926$ S/m; $\text{perm} = 55.0$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 10/18/2022; Ambient Temp: 22.9°C; Tissue Temp: 23.4°C

Probe: EX3DV4 - SN7718; ConvF:(9.06,9.06,9.06); Calibrated: 2022-03-11

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

Electronics: DAE4 Sn1368; Calibrated: 2022-03-16

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

Measurement SW: DASY Module SAR V16.2.0.1425

**Mode: LTE Band 12, Body SAR, Left Edge, Mid Ch.,
10 MHz Bandwidth, QPSK, 1 RB, 25 RB Offset**

Area Scan (1020.0 x 1020.0): Measurement grid: $dx=15.0$ mm, $dy=15.0$ mm

Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: $dx=4.7$ mm, $dy=4.7$ mm, $dz=1.4$ mm; Graded Ratio: 1.4

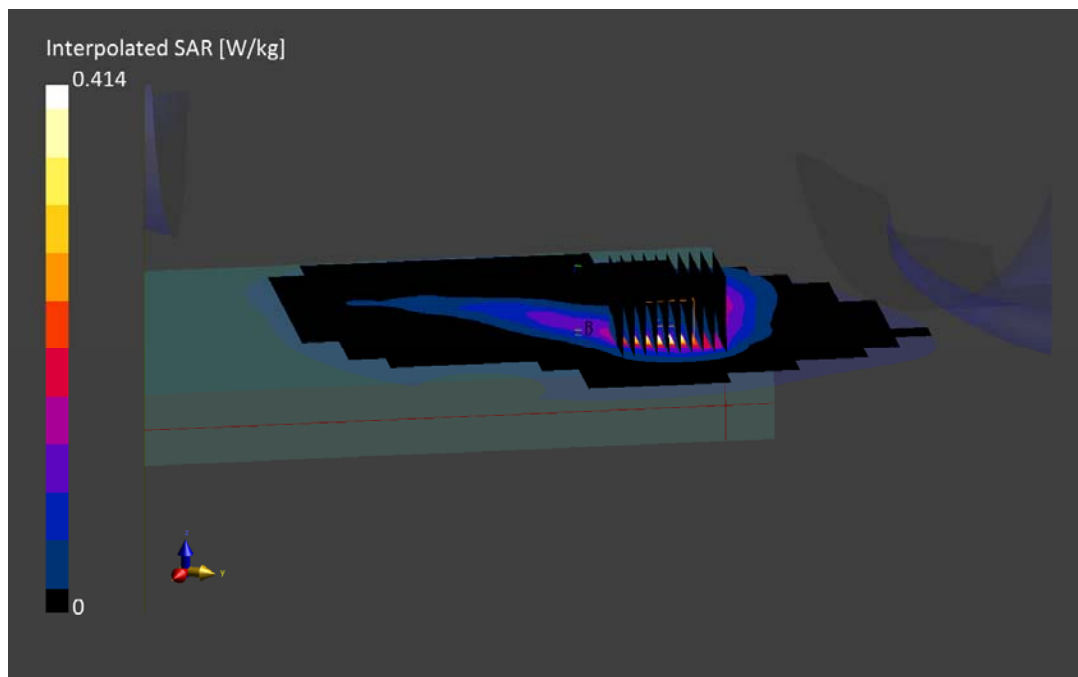
Reference Value = 0.13 W/kg; Power Drift = -0.20 dB

Peak SAR (extrapolated) = 0.414 W/kg

SAR(1 g) = 0.143 W/kg

Smallest distance from peaks to all points 3 dB below is 5.7 mm

Ratio of SAR at M2 to SAR at M1 = 69.0 %



ELEMENT

DUT: 2AVFA-YESWECAN; Type: Smart Cane; Serial: 22/410-1

Communication System: UID:10169 - CAF, LTE-FDD; MAIA: Y; Frequency: 1732.5 MHz

Medium: 1750 Body; Medium parameters used:

$f = 1732.5$ MHz; $\text{cond} = 1.43$ S/m; $\text{perm} = 53.2$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 10/18/2022; Ambient Temp: 23.5°C; Tissue Temp: 23.4°C

Probe: EX3DV4 - SN7718; ConvF:(7.93,7.93,7.93); Calibrated: 2022-03-11

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

Electronics: DAE4 Sn1368; Calibrated: 2022-03-16

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

Measurement SW: DASY Module SAR V16.2.0.1425

**Mode: LTE Band 4, Body SAR, Top Edge, Mid Ch.,
20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

Area Scan (1020.0 x 1020.0): Measurement grid: $dx=15.0$ mm, $dy=15.0$ mm

Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: $dx=5.7$ mm, $dy=5.7$ mm, $dz=1.5$ mm; Graded Ratio: 1.5

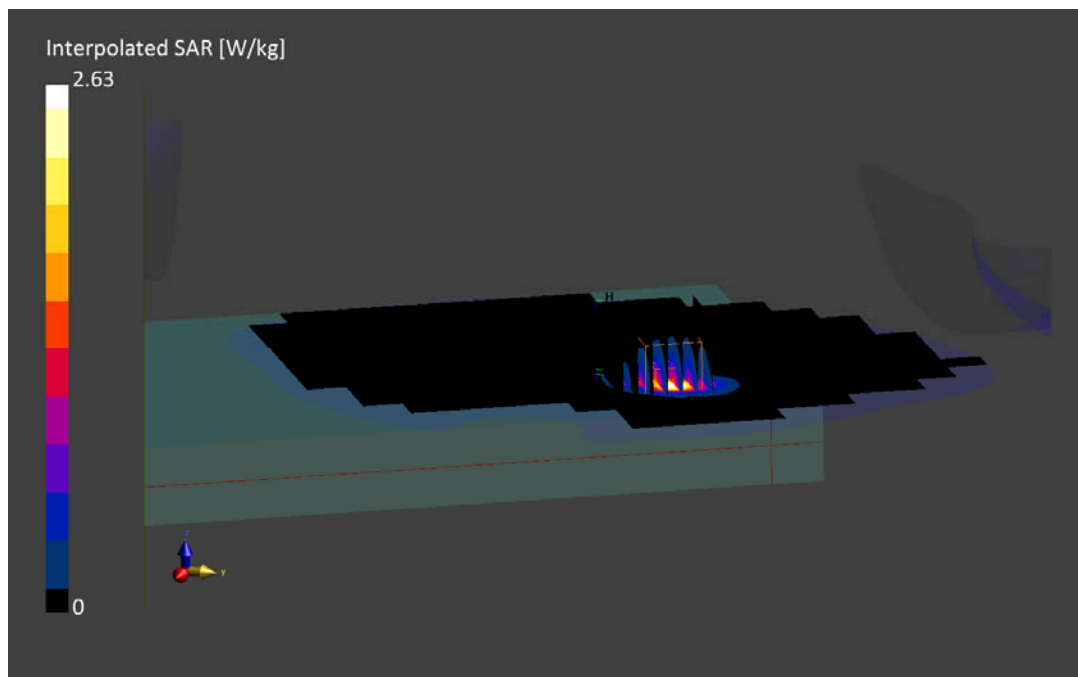
Reference Value = 1.07 W/kg; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 2.63 W/kg

SAR(1 g) = 1.28 W/kg

Smallest distance from peaks to all points 3 dB below is 7.3 mm

Ratio of SAR at M2 to SAR at M1 = 81.5 %



ELEMENT

DUT: 2AVFA-YESWECAN; Type: Smart Cane; Serial: 22/410-1

Communication System: UID:10169 - CAF, LTE-FDD; MAIA: Y; Frequency: 1880.0 MHz

Medium: 1750 Body; Medium parameters used:

f = 1880.0 MHz; cond = 1.53 S/m; perm = 53.0; density = 1000 kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 10/18/2022; Ambient Temp: 23.8°C; Tissue Temp: 23.4°C

Probe: EX3DV4 - SN7718; ConvF:(7.84,7.84,7.84); Calibrated: 2022-03-11

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

Electronics: DAE4 Sn1368; Calibrated: 2022-03-16

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

Measurement SW: DASY Module SAR V16.2.0.1425

**Mode: LTE Band 2, Body SAR, Left Edge, Mid Ch.,
20 MHz Bandwidth, QPSK, 1 RB, 50 RB Offset**

Area Scan (1020.0 x 1020.0): Measurement grid: dx=15.0 mm, dy=15.0 mm

Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: dx=5.3 mm, dy=5.3 mm, dz=1.5 mm; Graded Ratio: 1.5

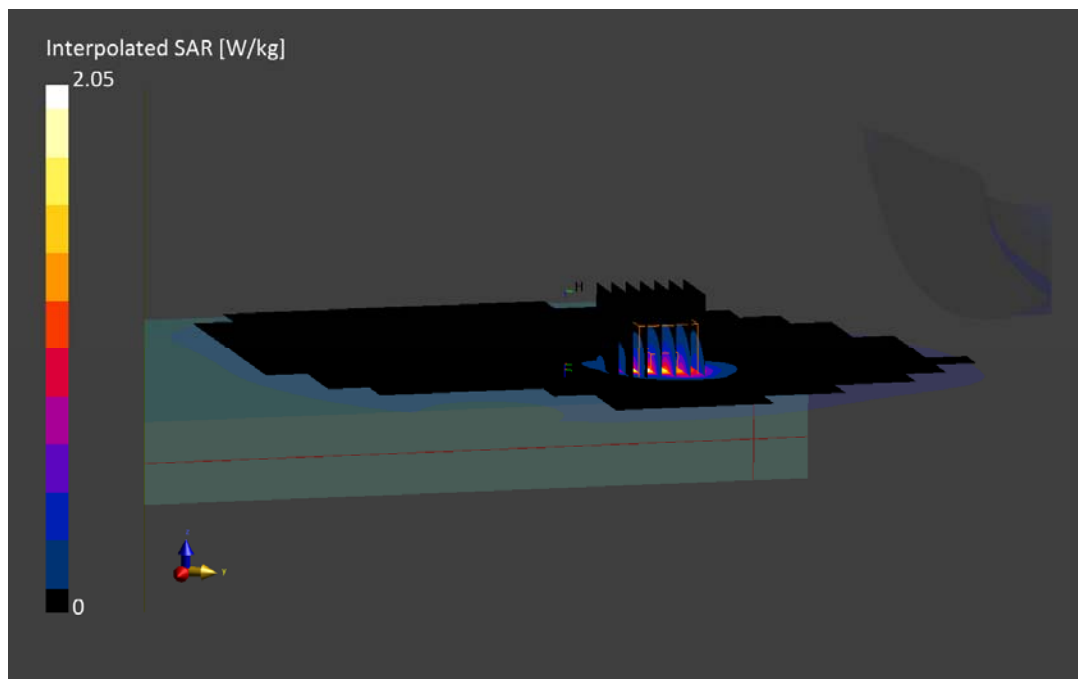
Reference Value = 0.80 W/kg; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 2.05 W/kg

SAR(1 g) = 0.929 W/kg

Smallest distance from peaks to all points 3 dB below is 6.8 mm

Ratio of SAR at M2 to SAR at M1 = 77.1 %



ELEMENT

DUT: 2AVFA-YESWECAN; Type: Smart Cane; Serial: 22/410-1

Communication System: UID:10670 - AAA, Bluetooth; MAIA: Y; Frequency: 2480.0 MHz

Medium: 2450 Body; Medium parameters used:

$f = 2480.0$ MHz; $\text{cond} = 2.07$ S/m; $\text{perm} = 51.4$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 09/22/2022; Ambient Temp: 24.4°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7718; ConvF:(7.46,7.46,7.46); Calibrated: 2022-03-11

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

Electronics: DAE4 Sn1368; Calibrated: 2022-03-16

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

Measurement SW: DASY Module SAR V16.2.0.1425

Mode: Bluetooth LE, Body SAR, Ch. 39, 500kbps, Left Edge

Area Scan (220.0 x 800.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: $dx=4.0$ mm, $dy=4.0$ mm, $dz=1.4$ mm; Graded Ratio: 1.4

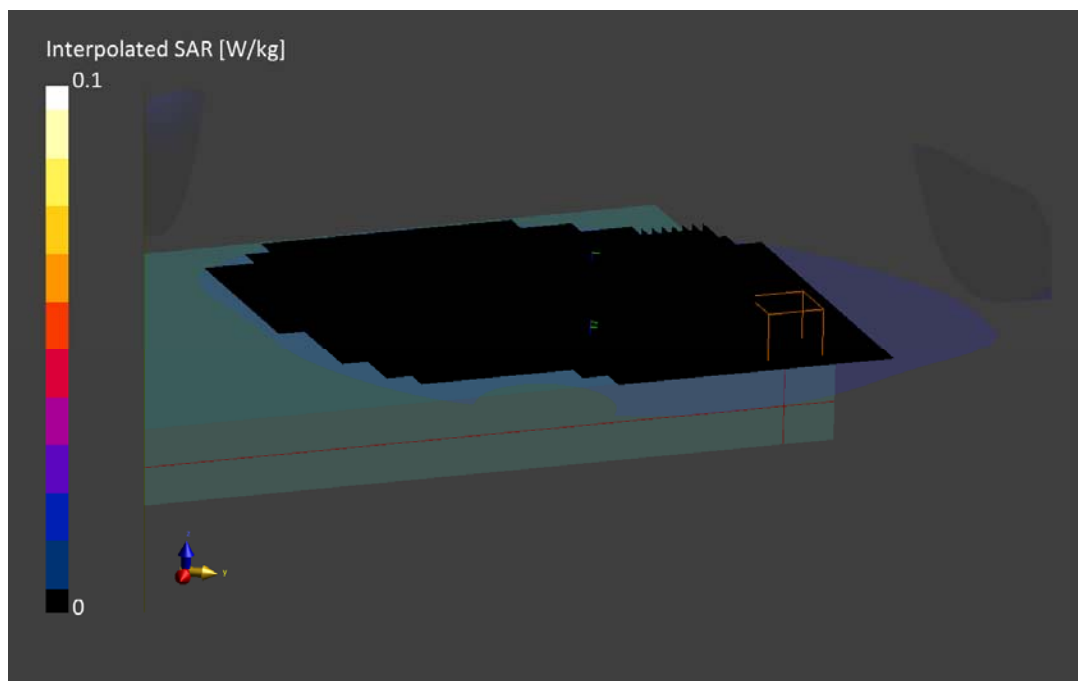
Reference Value = 0.00 W/kg; Power Drift = -0.20 dB

Peak SAR (extrapolated) = 0.010 W/kg

SAR(1 g) = 0.002 W/kg

Smallest distance from peaks to all points 3 dB below is > 15.0 mm

Ratio of SAR at M2 to SAR at M1 = 71.8 %



ELEMENT

DUT: 2AVFA-YESWECAN; Type: Smart Cane; Serial: 22/410-1

Communication System: UID:10175 - CAH, LTE-FDD; MAIA: Y; Frequency: 707.5 MHz

Medium: 1750 Body; Medium parameters used:

f = 707.5 MHz; cond = 0.926 S/m; perm = 55.0; density = 1000 kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 10/18/2022; Ambient Temp: 22.9°C; Tissue Temp: 23.4°C

Probe: EX3DV4 - SN7718; ConvF:(9.06,9.06,9.06); Calibrated: 2022-03-11

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

Electronics: DAE4 Sn1368; Calibrated: 2022-03-16

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

Measurement SW: DASY Module SAR V16.2.0.1425

**Mode: LTE Band 12, Extremity SAR, Top Edge, Mid Ch.,
10 MHz Bandwidth, QPSK, 1 RB, 25 RB Offset**

Area Scan (1020.0 x 1020.0): 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

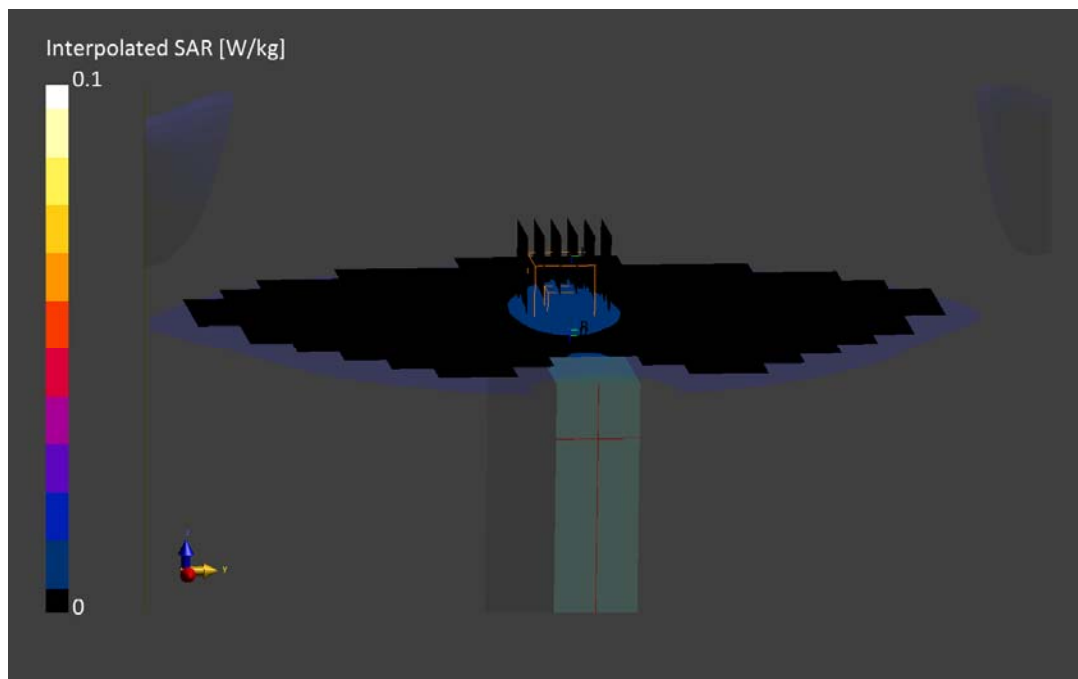
Reference Value = 0.01 W/kg; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.020 W/kg

SAR(10 g) = 0.009 W/kg

Smallest distance from peaks to all points 3 dB below is > 15.0 mm

Ratio of SAR at M2 to SAR at M1 = 88.8 %



ELEMENT

DUT: 2AVFA-YESWECAN; Type: Smart Cane; Serial: 22/410-1

Communication System: UID:10169 - CAF, LTE-FDD; MAIA: Y; Frequency: 1732.5 MHz

Medium: 1750 Body; Medium parameters used:

f = 1732.5 MHz; cond = 1.43 S/m; perm = 53.2; density = 1000 kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 10/18/2022; Ambient Temp: 23.5°C; Tissue Temp: 23.4°C

Probe: EX3DV4 - SN7718; ConvF:(7.93,7.93,7.93); Calibrated: 2022-03-11

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

Electronics: DAE4 Sn1368; Calibrated: 2022-03-16

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

Measurement SW: DASY Module SAR V16.2.0.1425

**Mode: LTE Band 4, Extremity SAR, Top Edge, Mid Ch.,
20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

Area Scan (1020.0 x 1020.0): 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

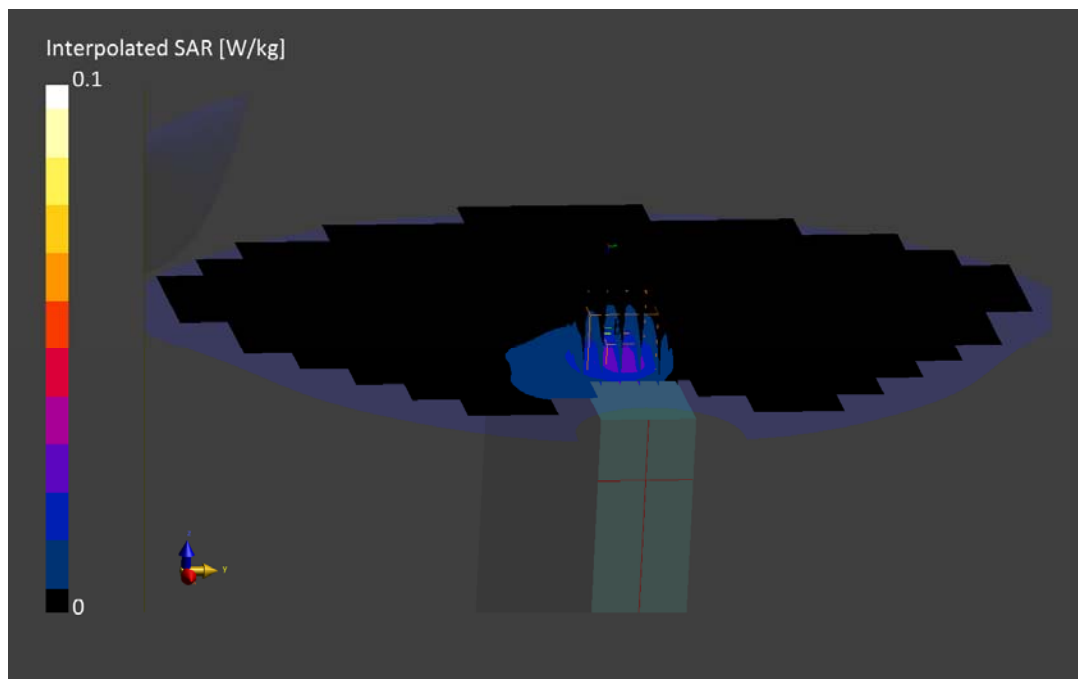
Reference Value = 0.03 W/kg; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.045 W/kg

SAR(10 g) = 0.017 W/kg

Smallest distance from peaks to all points 3 dB below is > 15.0 mm

Ratio of SAR at M2 to SAR at M1 = 87.6 %



ELEMENT

DUT: 2AVFA-YESWECAN; Type: Smart Cane; Serial: 22/410-1

Communication System: UID:10169 - CAF, LTE-FDD; MAIA: Y; Frequency: 1860.0 MHz

Medium: 1750 Body; Medium parameters used:

f = 1860.0 MHz; cond = 1.51 S/m; perm = 53.0; density = 1000 kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 10/18/2022; Ambient Temp: 23.8°C; Tissue Temp: 23.4°C

Probe: EX3DV4 - SN7718; ConvF:(7.84,7.84,7.84); Calibrated: 2022-03-11

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

Electronics: DAE4 Sn1368; Calibrated: 2022-03-16

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

Measurement SW: DASY Module SAR V16.2.0.1425

**Mode: LTE Band 2, Extremity SAR, Top Edge, Low Ch.,
20 MHz Bandwidth, QPSK, 1 RB, 50 RB Offset**

Area Scan (1020.0 x 1020.0): 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

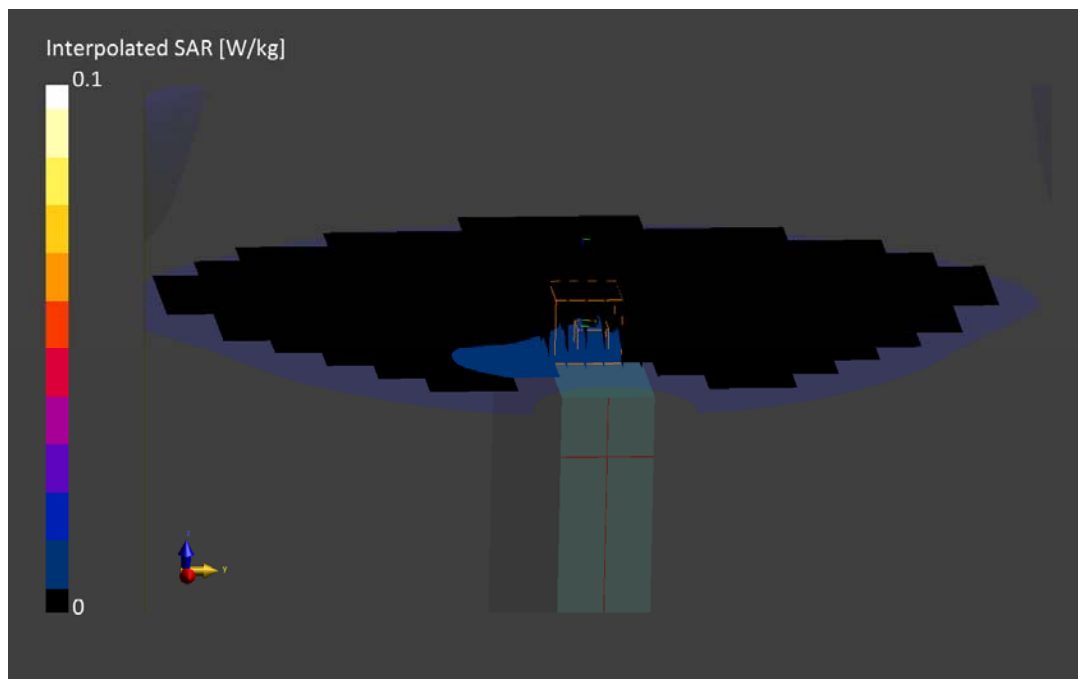
Reference Value = 0.00 W/kg; Power Drift = 0.20 dB

Peak SAR (extrapolated) = 0.023 W/kg

SAR(10 g) = 0.009 W/kg

Smallest distance from peaks to all points 3 dB below is > 15.0 mm

Ratio of SAR at M2 to SAR at M1 = 90.2 %



ELEMENT

DUT: 2AVFA-YESWECAN; Type: Smart Cane; Serial: 22/410-1

Communication System: UID:10670 - AAA, Bluetooth; MAIA: Y; Frequency: 2480.0 MHz

Medium: 2450 Body; Medium parameters used:

$f = 2480.0$ MHz; $\text{cond} = 2.07$ S/m; $\text{perm} = 51.4$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 09/22/2022; Ambient Temp: 24.4°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7718; ConvF:(7.46,7.46,7.46); Calibrated: 2022-03-11

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

Electronics: DAE4 Sn1368; Calibrated: 2022-03-16

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

Measurement SW: DASY Module SAR V16.2.0.1425

Mode: Bluetooth LE, Body SAR, Ch. 39, 500kbps, Top Edge

Area Scan (1000.0 x 1000.0): 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 = 0.00 W/kg; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.005 W/kg

SAR(1 g) = 0.00 W/kg

Smallest distance from peaks to all points 3 dB below is > 15.0 mm

Ratio of SAR at M2 to SAR at M1 = -52.8 %

