APPENDIX A: SAR TEST PLOTS

ELEMENT

DUT: C3K-00002101; Type: Wireless Module; Serial: 4CQ24

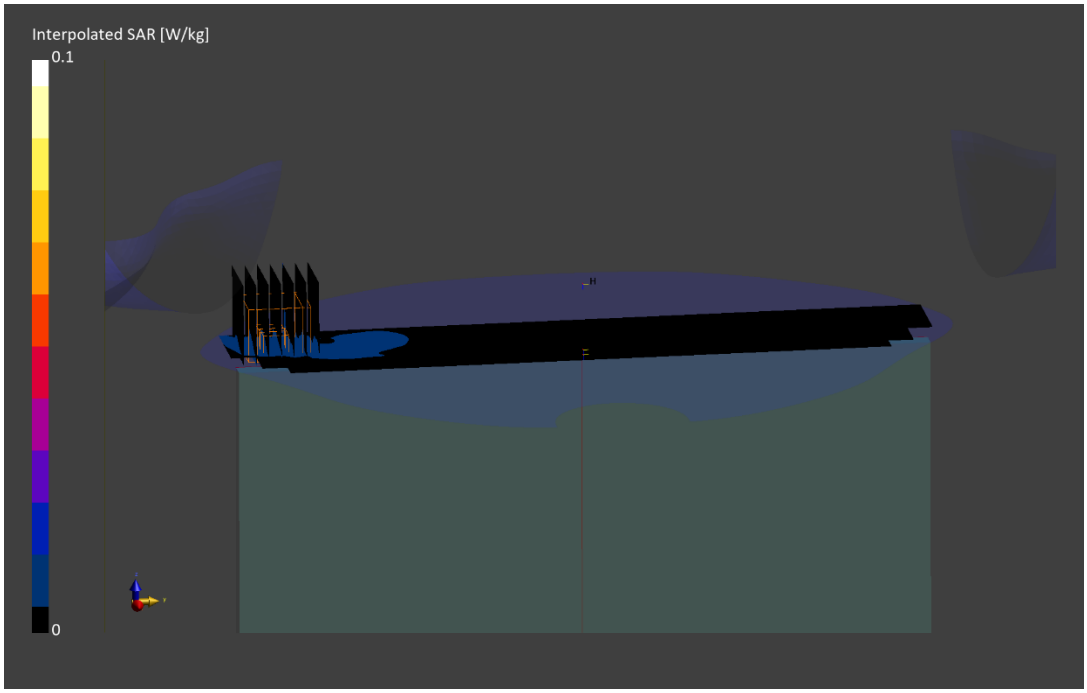
Communication System: UID:10415 - AAA, WLAN; MAIA: Y; Frequency: 2437.000 MHz
Medium: 2450 Head; Medium parameters used:
f = 2437.000 MHz; cond = 1.84 S/m; perm = 38.4; density = 1000 kg/m3
Phantom Section: Flat; Space: 0.00 mm

Test Date: 02/03/2025; Ambient Temp: 21.1°C; Tissue Temp: 19.5°C

Probe: EX3DV4 - SN3914; ConvF:(7.52,6.84,6.89); Calibrated: 2024-05-10
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn728; Calibrated: 2024-05-08
Phantom: Twin-SAM V8.0; Serial: 2060
Measurement SW: DASY Module SAR V16.4.0.5005

Mode: 2.4 GHz WIFI/ IEEE 802.11b, Antenna L, 22 MHz Bandwidth, Exp: Power Mode 1| Bottom Edge, Ch. 6, 1Mbps

Area Scan (48.0 x 320.0): Measurement grid: dx=8.0 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 = 0.01 dB
Peak SAR (extrapolated) = 0.025 W/kg
SAR(1 g) = 0.012 W/kg
Smallest distance from peaks to all points 3 dB below is 14.0 mm
Ratio of SAR at M2 to SAR at M1 = N/A %



ELEMENT

DUT: C3K-00002101; Type: Wireless Module; Serial: 4CQ24

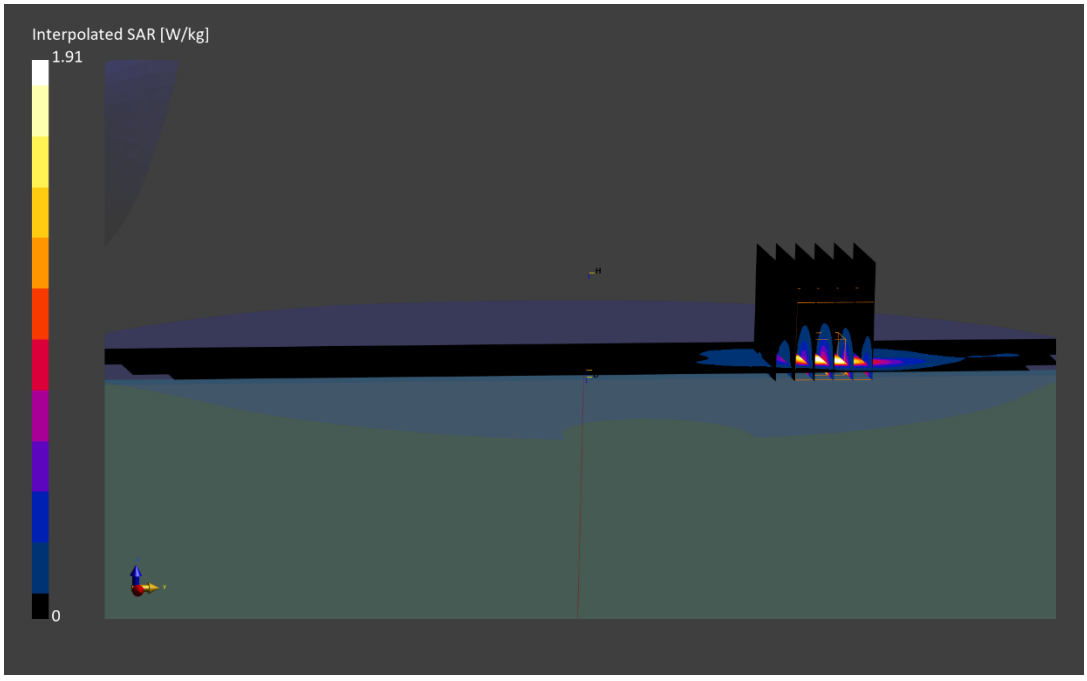
Communication System: UID:10415 - AAA, WLAN; MAIA: Y; Frequency: 2462.000 MHz
Medium: 2450 Head; Medium parameters used:
f = 2462.000 MHz; cond = 1.84 S/m; perm = 38.6; density = 1000 kg/m3
Phantom Section: Flat; Space: 0.00 mm

Test Date: 01/20/2025; Ambient Temp: 22.3°C; Tissue Temp: 22.3°C

Probe: EX3DV4 - SN7406; ConvF:(7.24,6.85,7.63); Calibrated: 2024-07-05
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1677; Calibrated: 2024-07-08
Phantom: Twin-SAM V5.0; Serial: 1800
Measurement SW: DASY Module SAR V16.4.0.5005

Mode: 2.4 GHz WIFI/ IEEE 802.11b, Antenna R, 22 MHz Bandwidth, Exp: Power Mode 2| Top Edge, Ch. 11, 1Mbps

Area Scan (48.0 x 320.0): Measurement grid: dx=8.0 mm, dy=10.0 mm
Zoom Scan (31.5 x 31.5 x 31.2): Measurement grid: dx=4.5 mm, dy=4.5 mm, dz=1.5 mm; Graded Ratio: 1.5
Reference Value = 0.60 W/kg; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 1.91 W/kg
SAR(1 g) = 0.673 W/kg
Smallest distance from peaks to all points 3 dB below is 5.3 mm
Ratio of SAR at M2 to SAR at M1 = 72.6 %



ELEMENT

DUT: C3K-00002101; Type: Wireless Module; Serial: 4K3CQ

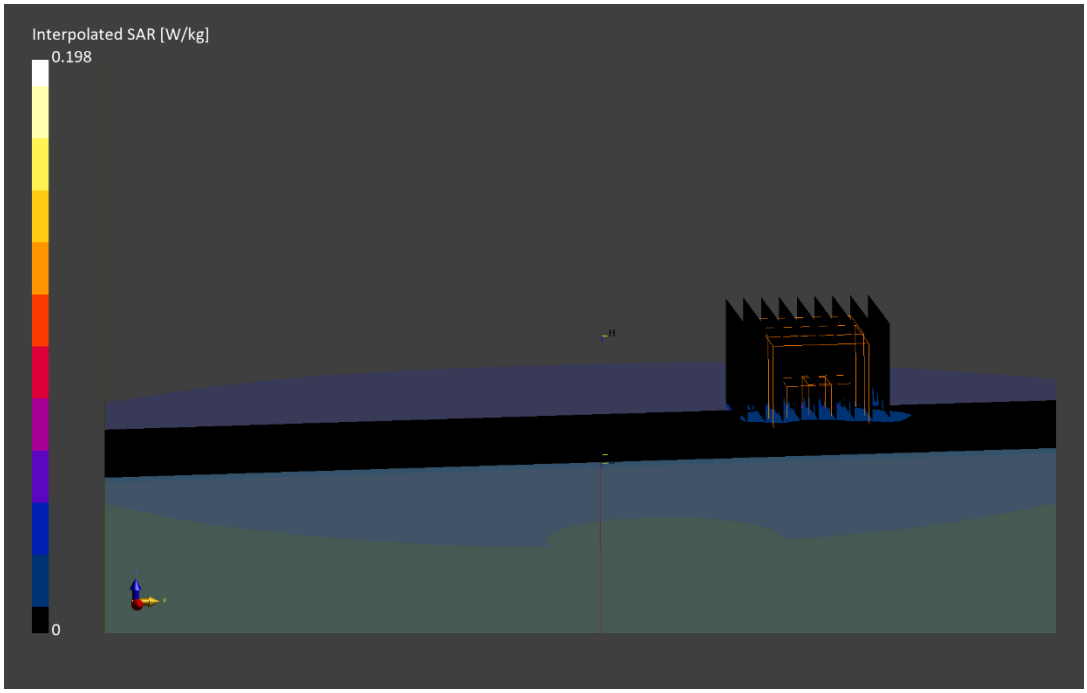
Communication System: UID:10417 - AAD, WLAN; MAIA: Y; Frequency: 5825.000 MHz
Medium: 5200-5800 Head; Medium parameters used:
f = 5825.000 MHz; cond = 5.21 S/m; perm = 34.7; density = 1000 kg/m3
Phantom Section: Flat; Space: 0.00 mm

Test Date: 01/13/2025; Ambient Temp: 19.1°C; Tissue Temp: 19.4°C

Probe: EX3DV4 - SN7803; ConvF:(4.79,4.89,4.98); Calibrated: 2024-06-28
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1583; Calibrated: 2024-07-08
Phantom: Twin-SAM V8.0; Serial: 2065
Measurement SW: DASY Module SAR V16.4.0.5005

Mode: 5 GHz WIFI/ IEEE 802.11a, Antenna L, 20 MHz Bandwidth, U-NII-3, Exp: Power Mode 1| Bottom Edge, Ch. 165, 6 Mbps

Area Scan (48.0 x 320.0): Measurement grid: dx=8.0 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 = -0.02 W/kg; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.198 W/kg
SAR(1 g) = 0.015 W/kg
Smallest distance from peaks to all points 3 dB below is 7.9 mm
Ratio of SAR at M2 to SAR at M1 = 68.5 %



ELEMENT

DUT: C3K-00002101; Type: Wireless Module; Serial: 4CQ24

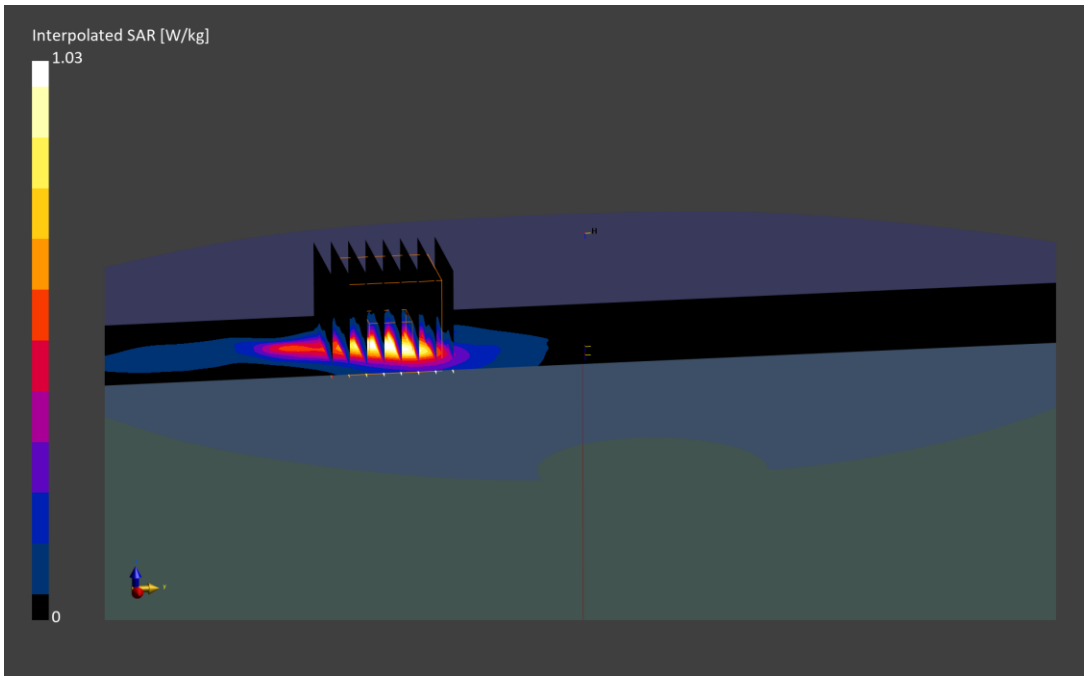
Communication System: UID:10544 - AAD, CW; MAIA: Y; Frequency: 5855.000 MHz
Medium: 5200-5800 Head; Medium parameters used:
f = 5855.000 MHz; cond = 5.27 S/m; perm = 36.4; density = 1000 kg/m3
Phantom Section: Flat; Space: 0.00 mm

Test Date: 01/07/2025; Ambient Temp: 19.0°C; Tissue Temp: 19.0°C

Probe: EX3DV4 - SN7803; ConvF:(4.78,4.89,4.97); Calibrated: 2024-06-28
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1583; Calibrated: 2024-07-08
Phantom: Twin-SAM V8.0; Serial: 2065
Measurement SW: DASY Module SAR V16.4.0.5005

Mode: 5 GHz WIFI/ IEEE 802.11ac, Antenna L, 80 MHz Bandwidth, U-NII-4, Exp: Power Mode 2| Top Edge, Ch. 171, 29.3 Mbps

Area Scan (48.0 x 320.0): Measurement grid: dx=8.0 mm, dy=10.0 mm
Zoom Scan (28.0 x 28.0 x 22.9): Measurement grid: dx=4.0 mm, dy=4.0 mm, dz=1.4 mm; Graded Ratio: 1.4
Reference Value = 0.75 W/kg; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 3.97 W/kg
SAR(1 g) = 0.890 W/kg
Smallest distance from peaks to all points 3 dB below is 7.2 mm
Ratio of SAR at M2 to SAR at M1 = 55.9 %



ELEMENT

DUT: C3K-00002101; Type: Wireless Module; Serial: 4CP24

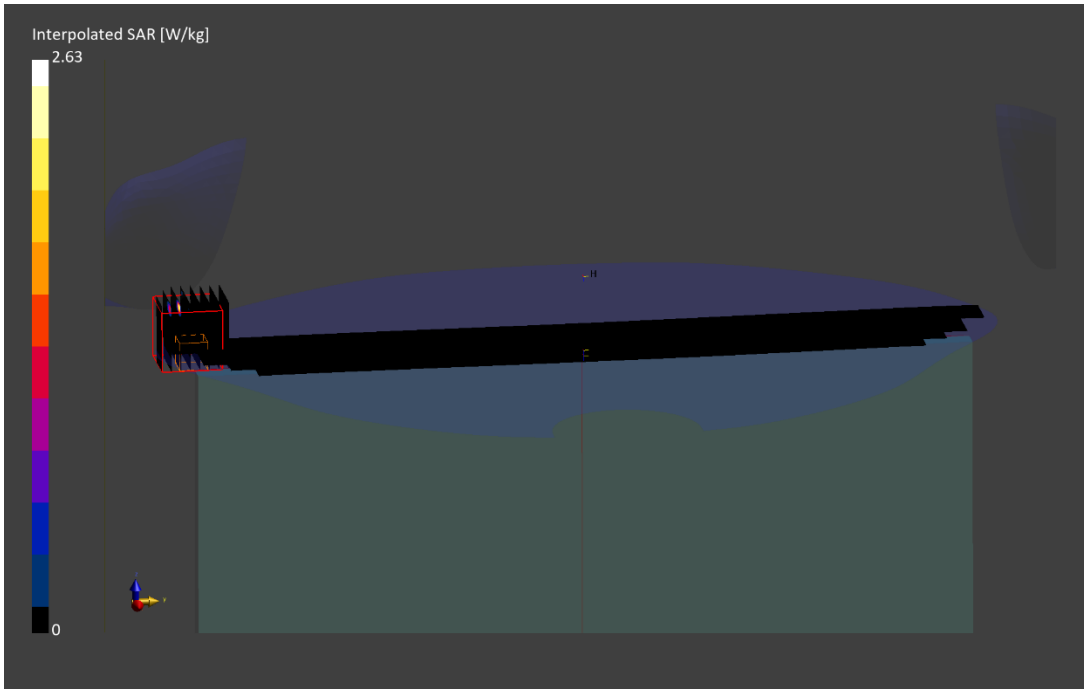
Communication System: UID:11026 - AAB, WLAN; MAIA: Y; Frequency: 6105.000 MHz
Medium: 6000 Head; Medium parameters used:
f = 6105.000 MHz; cond = 5.39 S/m; perm = 35.5; density = 1000 kg/m3
Phantom Section: Flat; Space: 0.00 mm

Test Date: 01/13/2025; Ambient Temp: 19.0°C; Tissue Temp: 19.0°C

Probe: EX3DV4 - SN7527; ConvF:(5.15,4.68,5.36); Calibrated: 2024-03-08
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1272; Calibrated: 2024-03-12
Phantom: Twin-SAM V8.0; Serial: 1979
Measurement SW: DASY Module SAR V16.4.0.5005

Mode: 6 GHz WIFI/ IEEE 802.11be, Antenna L, 320 MHz Bandwidth, U-NII-5, Exp: Power Mode 1| Bottom Edge, Ch. 31, 144.11 Mbps

Area Scan (48.0 x 306.0): Measurement grid: dx=8.0 mm, dy=8.5 mm
Zoom Scan (22.0 x 22.0 x 22.0): Measurement grid: dx=3.4 mm, dy=3.4 mm, dz=1.4 mm; Graded Ratio: 1.4
Reference Value = -0.01 W/kg; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 2.63 W/kg
SAR(1 g) = 0.007 W/kg; APD(4cm^2) = 0.046 W/m^2
Smallest distance from peaks to all points 3 dB below is 3.5 mm
Ratio of SAR at M2 to SAR at M1 = 58.2 %



ELEMENT

DUT: C3K-00002101; Type: Wireless Module; Serial: WF324

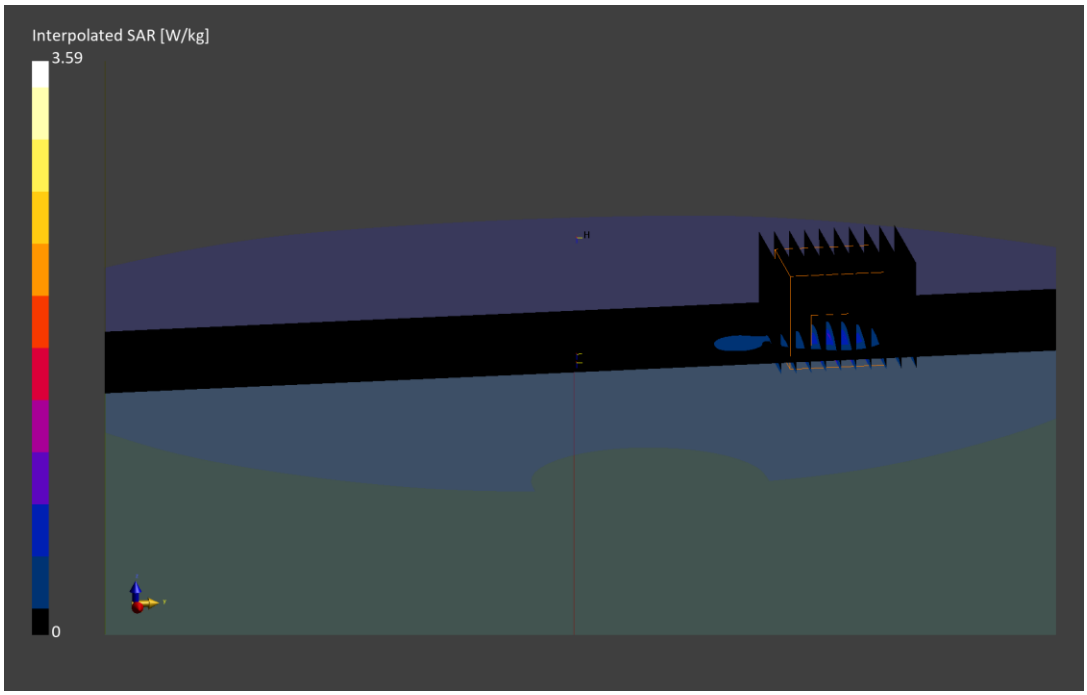
Communication System: UID:11026 - AAB, WLAN; MAIA: Y; Frequency: 6105.000 MHz
Medium: 6000 Head; Medium parameters used:
f = 6105.000 MHz; cond = 5.39 S/m; perm = 35.5; density = 1000 kg/m3
Phantom Section: Flat; Space: 0.00 mm

Test Date: 01/13/2025; Ambient Temp: 19.0°C; Tissue Temp: 19.0°C

Probe: EX3DV4 - SN7527; ConvF:(5.15,4.68,5.36); Calibrated: 2024-03-08
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1272; Calibrated: 2024-03-12
Phantom: Twin-SAM V8.0; Serial: 1979
Measurement SW: DASY Module SAR V16.4.0.5005

Mode: 6 GHz WIFI/ IEEE 802.11be, Antenna R, 320 MHz Bandwidth, U-NII-5, Exp: Power Mode 2| Top Edge, Ch. 31, 144.11 Mbps

Area Scan (48.0 x 306.0): Measurement grid: dx=8.0 mm, dy=8.5 mm
Zoom Scan (22.0 x 22.0 x 22.0): Measurement grid: dx=3.4 mm, dy=3.4 mm, dz=1.4 mm; Graded Ratio: 1.4
Reference Value = 0.34 W/kg; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 3.59 W/kg
SAR(1 g) = 0.714 W/kg; APD(4cm^2) = 4.36 W/m^2
Smallest distance from peaks to all points 3 dB below is 4.9 mm
Ratio of SAR at M2 to SAR at M1 = 53.2 %



ELEMENT

DUT: C3K-00002101; Type: Wireless Module; Serial: 4CQ24

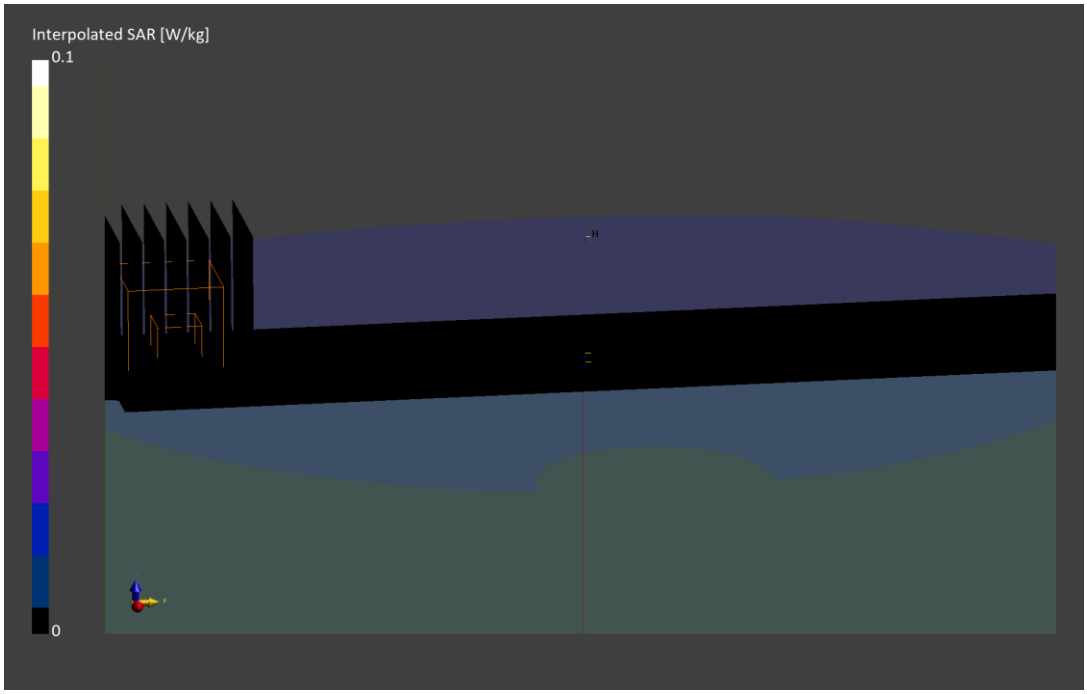
Communication System: UID:10032 - CAA, Bluetooth; MAIA: Y; Frequency: 2441.000 MHz
Medium: 2450 Head; Medium parameters used:
f = 2441.000 MHz; cond = 1.82 S/m; perm = 38.9; density = 1000 kg/m3
Phantom Section: Flat; Space: 0.00 mm

Test Date: 01/08/2025; Ambient Temp: 22.7°C; Tissue Temp: 21.6°C

Probe: EX3DV4 - SN7406; ConvF:(7.24,6.85,7.63); Calibrated: 2024-07-05
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1677; Calibrated: 2024-07-08
Phantom: Twin-SAM V5.0; Serial: 1800
Measurement SW: DASY Module SAR V16.4.0.5005

Mode: 2.4 GHz Bluetooth, Antenna L, Exp: Power Mode 1| Bottom Edge, Ch. 39, 1 Mbps

Area Scan (40.0 x 320.0): 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 = -0.01 W/kg; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.001 W/kg
SAR(1 g) = 0 W/kg
Smallest distance from peaks to all points 3 dB below is 0.0 mm
Ratio of SAR at M2 to SAR at M1 = N/A %



ELEMENT

DUT: C3K-00002101; Type: Wireless Module; Serial: CP244

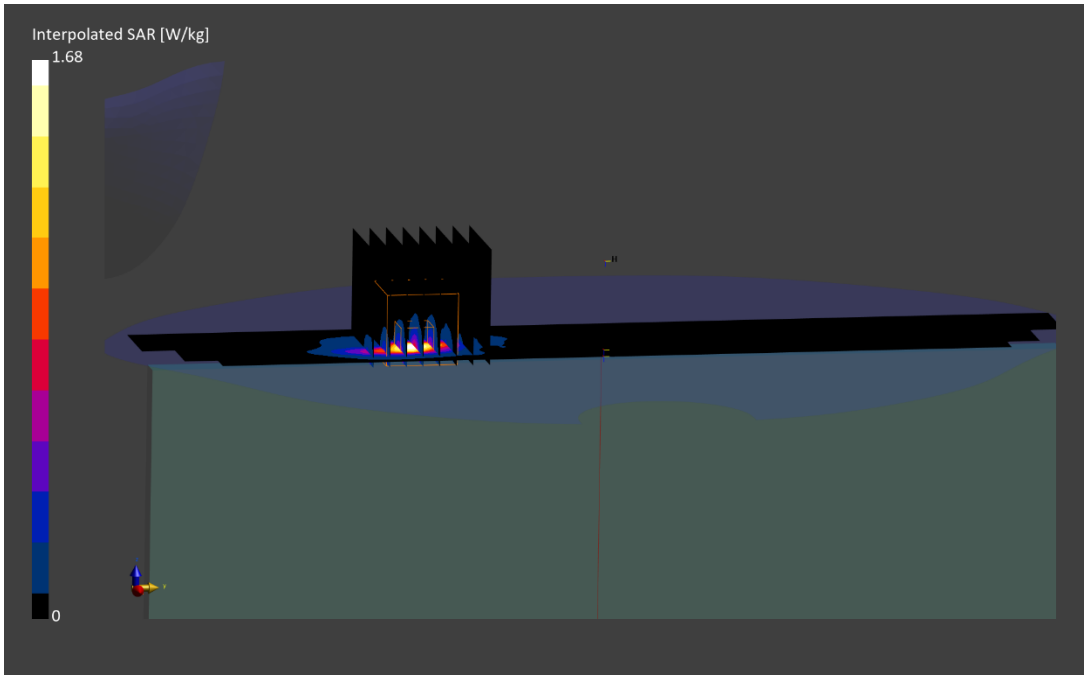
Communication System: UID:10032 - CAA, Bluetooth; MAIA: Y; Frequency: 2480.000 MHz
Medium: 2450 Head; Medium parameters used:
f = 2480.000 MHz; cond = 1.86 S/m; perm = 38.6; density = 1000 kg/m3
Phantom Section: Flat; Space: 0.00 mm

Test Date: 01/20/2025; Ambient Temp: 22.3°C; Tissue Temp: 22.3°C

Probe: EX3DV4 - SN7406; ConvF:(7.24,6.85,7.63); Calibrated: 2024-07-05
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1677; Calibrated: 2024-07-08
Phantom: Twin-SAM V5.0; Serial: 1800
Measurement SW: DASY Module SAR V16.4.0.5005

Mode: 2.4 GHz Bluetooth, Antenna L, Exp: Power Mode 2| Top Edge, Ch. 78, 1 Mbps

Area Scan (48.0 x 320.0): Measurement grid: dx=8.0 mm, dy=10.0 mm
Zoom Scan (36.0 x 36.0 x 33.4): Measurement grid: dx=3.6 mm, dy=3.6 mm, dz=1.4 mm; Graded Ratio: 1.4
Reference Value = 0.49 W/kg; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.68 W/kg
SAR(1 g) = 0.558 W/kg
Smallest distance from peaks to all points 3 dB below is 5.5 mm
Ratio of SAR at M2 to SAR at M1 = 72.9 %



Date: 2025-02-18

Mode: 6GHz WIFI/ IEEE 802.11ax, Antenna R, 320 MHz Bandwidth, U-NII-5, Exp: Power Mode 1 | Right Edge, Ch. 31, 144.11Mbps

Device Under Test Properties

DUT	Serial Number	DUT Type
C3K-00002101	WF324	Wireless Module

Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Channel	Group, UID	Frequency [MHz]
5G	EDGE RIGHT	25.00	31	10755	6105.0

Hardware Setup

Probe, Calibration Date	DAE, Calibration Date
EUmmWV3 - SN9389, 2025-01-08	DAE4 - SN1449, 2024-09-10

Software Setup

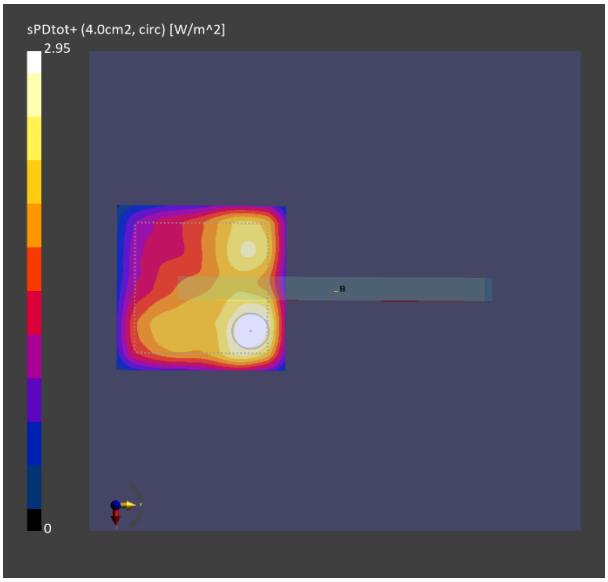
Software	Software Version
cDASY6 Module mmWave	3.2.0.1840

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.125 x 0.125
Sensor Surface [mm]	25.0

Measurement Results

Scan Type	5G Scan
Avg. Area [cm²]	4.00
pS_{tot} avg [W/m²]	2.95
pS_n avg [W/m²]	2.92
E_{peak} [V/m]	37.7
Power Drift [dB]	0.13



Date: 2025-01-13

Mode: 6GHz WIFI/ IEEE 802.11ax, Antenna R, 320 MHz Bandwidth, U-NII-5, Exp: Power Mode 2 | Top Edge, Ch. 31, 144.11 Mbps

Device Under Test Properties

DUT	Serial Number	DUT Type
C3K-00002101	WF324	Wireless Module

Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Channel	Group, UID	Frequency [MHz]
5G	EDGE TOP	2.00	31	10755	6105.0

Hardware Setup

Probe, Calibration Date	DAE, Calibration Date
EUmmWV4 - SN9622, 2024-02-02	DAE4 - SN1449, 2024-09-10

Software Setup

Software	Software Version
cDASY6 Module mmWave	3.2.0.1840

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.125 x 0.125
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Avg. Area [cm²]	4.00
pS_{tot} avg [W/m²]	4.08
pS_n avg [W/m²]	3.16
E_{peak} [V/m]	71.6
Power Drift [dB]	-0.03