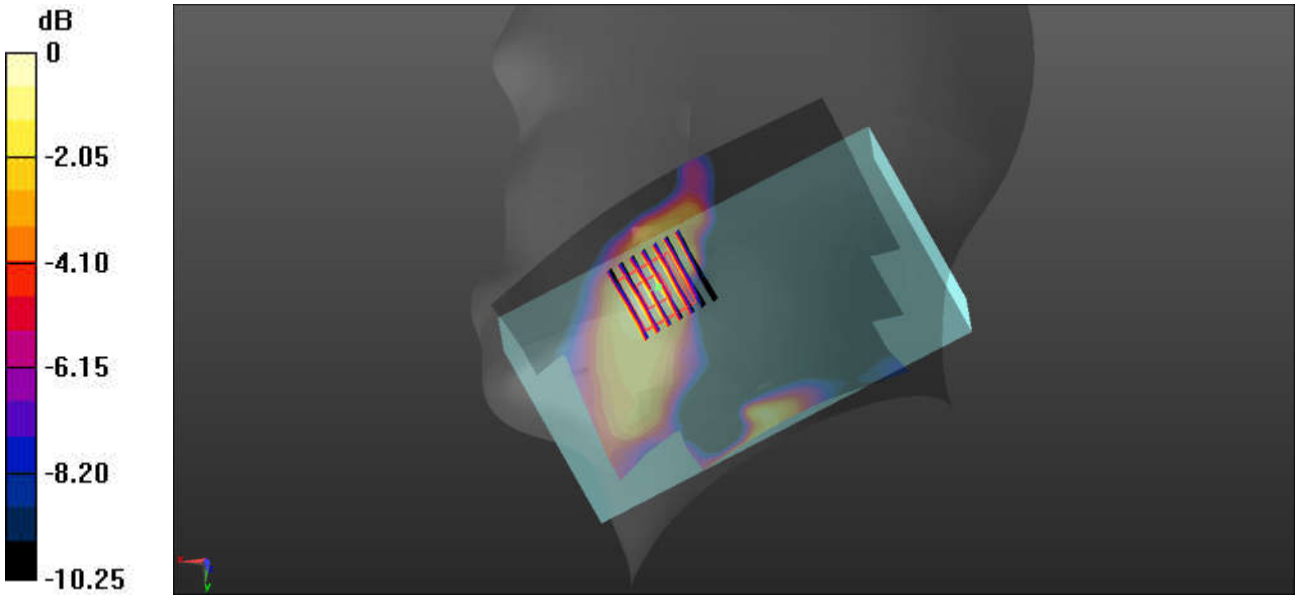
01_WLAN2.4GHz_802.11b 1Mbps_Inner Face_0mm_Ch6

Communication System: UID 0, WLAN2.4GHz (0); Frequency: 2437 MHz;Duty Cycle: 1:1.017
Medium: HSL_2450 Medium parameters used: f = 2437 MHz; σ = 1.73 S/m; ε_r = 39.333; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3857; ConvF(7.71, 7.71, 7.71); Calibrated: 2022/12/14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2022/6/15
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (111x141x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0472 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.483 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.0560 W/kg
SAR(1 g) = 0.034 W/kg; SAR(10 g) = 0.022 W/kg
Maximum value of SAR (measured) = 0.0431 W/kg



0 dB = 0.0431 W/kg = -13.66 dBW/kg

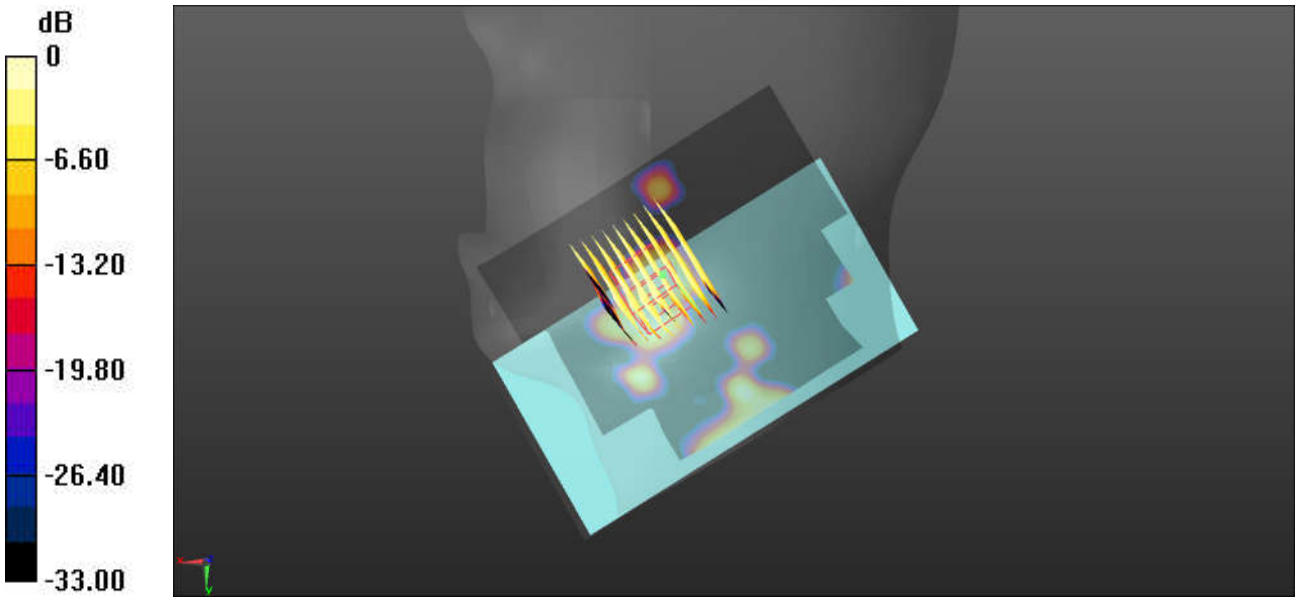
02_Bluetooth_1Mbps_Inner Face_0mm_Ch39

Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz;Duty Cycle: 1:1.297
Medium: HSL_2450 Medium parameters used: f = 2441 MHz; σ = 1.734 S/m; ε_r = 39.31; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3857; ConvF(7.71, 7.71, 7.71); Calibrated: 2022/12/14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2022/6/15
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (121x141x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0239 W/kg

Zoom Scan (9x9x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.176 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 0.0160 W/kg
SAR(1 g) = 0.010 W/kg; SAR(10 g) = 0.004 W/kg
Maximum value of SAR (measured) = 0.0127 W/kg



0 dB = 0.0127 W/kg = -18.96 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2023/1/25

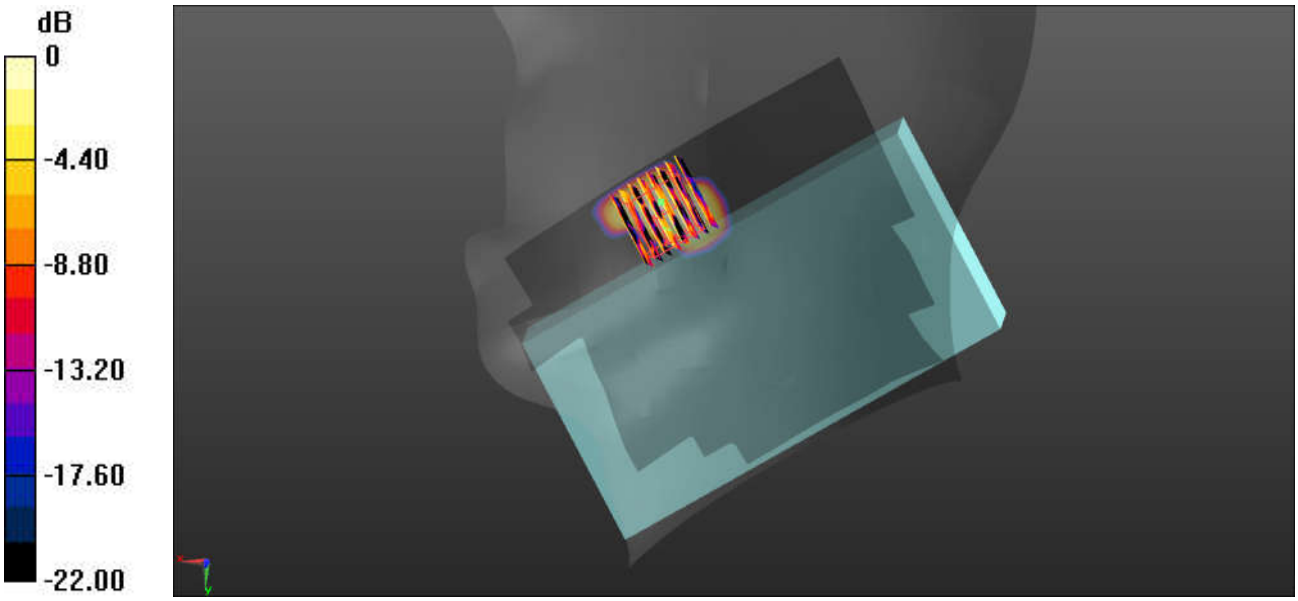
03_WLAN5GHz_802.11n-HT40 MCS0_Inner Face_0mm_Ch62

Communication System: UID 0, WLAN5GHz (0); Frequency: 5310 MHz;Duty Cycle: 1:1
Medium: HSL_5000 Medium parameters used: f = 5310 MHz; σ = 4.651 S/m; ε_r = 35.621; ρ = 1000 kg/m^3
Ambient Temperature：23.1 ℃; Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3857; ConvF(5.21, 5.21, 5.21); Calibrated: 2022/12/14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2022/6/15
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (151x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.0617 W/kg

Zoom Scan (11x11x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 2.857 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.0390 W/kg
SAR(1 g) = 0.002 W/kg; SAR(10 g) = 0.001 W/kg
Maximum value of SAR (measured) = 0.0267 W/kg



0 dB = 0.0267 W/kg = -15.73 dBW/kg

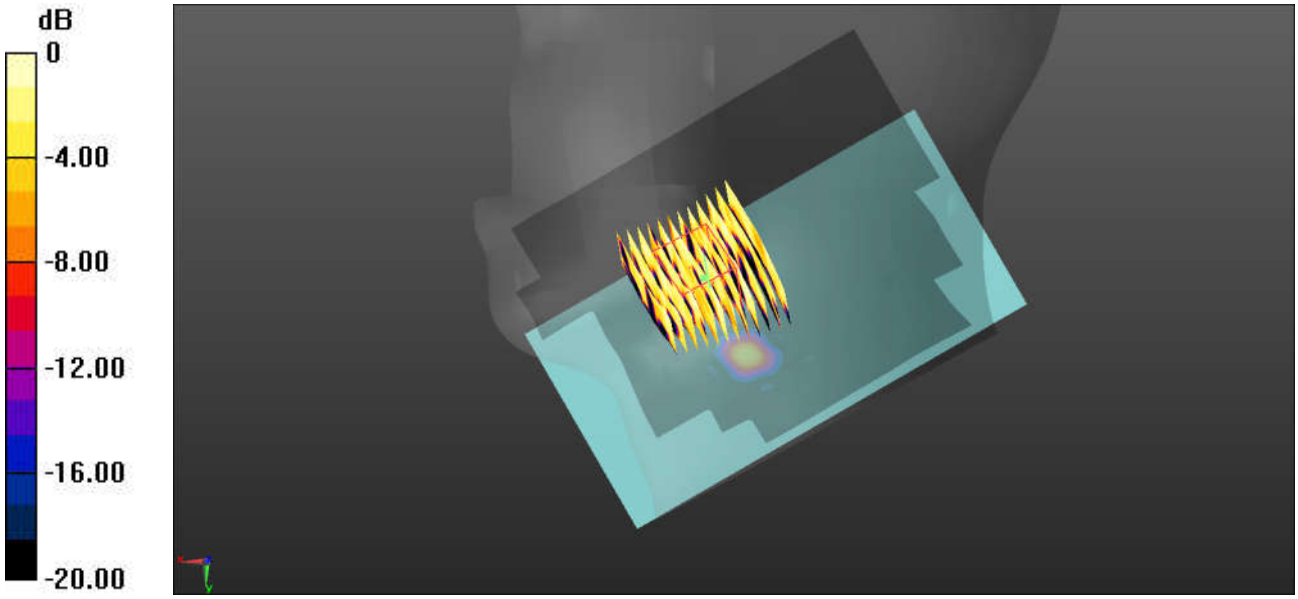
04_WLAN5GHz_802.11a 6Mbps_Inner Face_0mm_Ch100

Communication System: UID 0, WLAN5GHz (0); Frequency: 5500 MHz;Duty Cycle: 1:1.007
Medium: HSL_5000 Medium parameters used: f = 5500 MHz; σ = 4.843 S/m; ε_r = 35.287; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃; Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3857; ConvF(4.86, 4.86, 4.86); Calibrated: 2022/12/14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2022/6/15
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (131x161x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.00505 W/kg

Zoom Scan (11x12x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 3.057 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.00776 W/kg
SAR(1 g) = 0.003 W/kg; SAR(10 g) = 0.001 W/kg
Maximum value of SAR (measured) = 0.0301 W/kg



0 dB = 0.0301 W/kg = -15.21 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2023/1/25

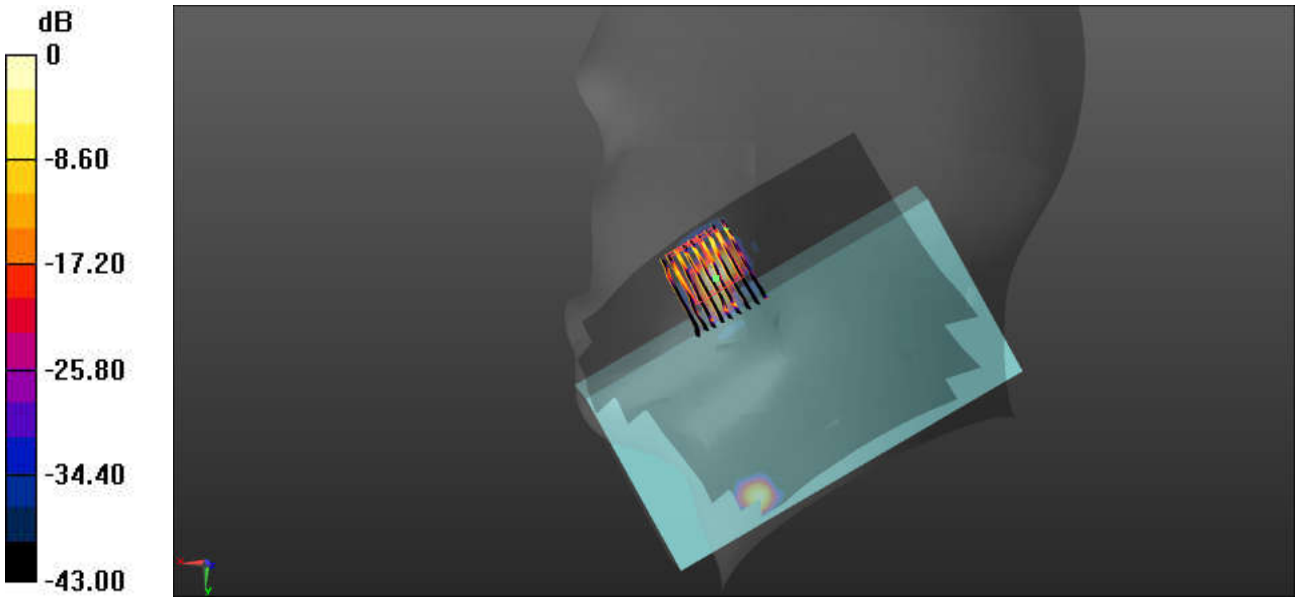
05_WLAN5GHz_802.11a 6Mbps_Inner Face_0mm_Ch149

Communication System: UID 0, WLAN5GHz (0); Frequency: 5745 MHz;Duty Cycle: 1:1.007
Medium: HSL_5000 Medium parameters used: f = 5745 MHz; σ = 5.107 S/m; ε_r = 34.895; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃; Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3857; ConvF(4.93, 4.93, 4.93); Calibrated: 2022/12/14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2022/6/15
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (131x161x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.0497 W/kg

Zoom Scan (10x14x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 0.8390 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 11.2 W/kg
SAR(1 g) = 0.013 W/kg; SAR(10 g) = 0.006 W/kg
Maximum value of SAR (measured) = 0.0283 W/kg



0 dB = 0.0283 W/kg = -15.48 dBW/kg

Date: 2023-01-27

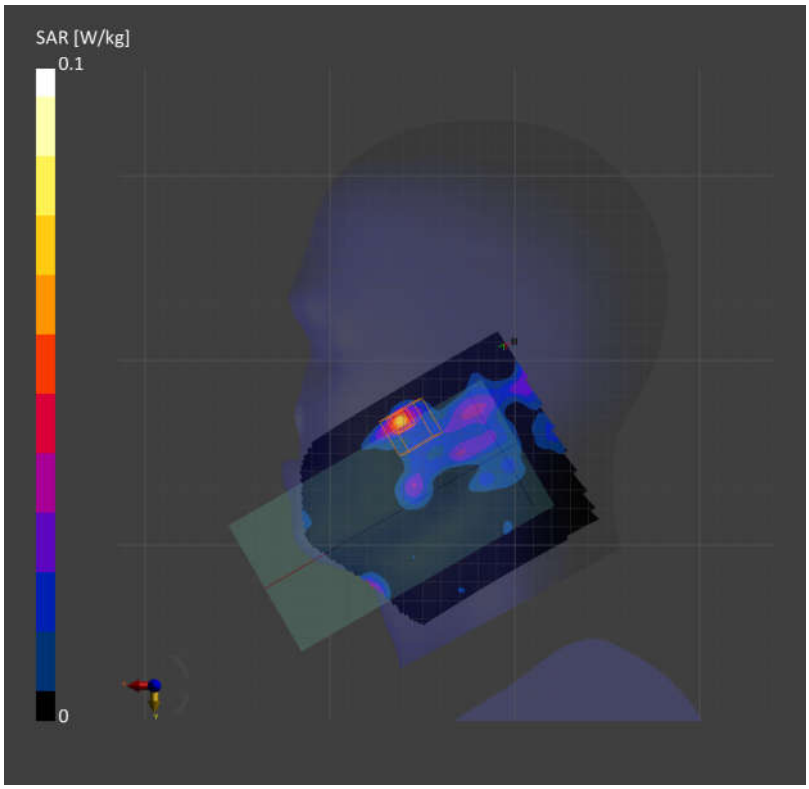
06_WLAN6GHz_802.11ax HE160 MCS0_Inner Face _0mm_Ch15

Communication System: U-NII-5; Frequency: 6025.0
Medium: HSL. Medium parameters used: f= 6025.0 MHz; σ= 5.49 S/m; ε_r = 35.26
Ambient Temperature: 23.3°C; Liquid Temperature: 22.6°C

DASY6 Configuration:
- Probe: EX3DV4 - SN3857; ConvF(5.55, 5.55, 5.55); Calibrated: 2022-12-14
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn690; Calibrated: 2022-06-15
- Phantom: Twin-SAM 1; Serial: 1644; Section: RightHead
- Measurement Software: cDASY6 V6.6.0.13926

Area Scan (119.0 mm x 204.0 mm): Measurement Grid: 8.5 mm x 8.5 mm
SAR (1g) = 0.667 W/kg; SAR (10g) = 0.137 W/kg;

Zoom Scan (22.0 mm x 22.0 mm x 22.0 mm): Measurement Grid: 3.4 mm x 3.4 mm x 1.4 mm
Power Drift = 0.01 dB
SAR (1g) = 0.008 W/kg; SAR (10g) = 0.004 W/kg;
psAPD (4.0cm2, sq) = 0.078 [W/m2];



Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2023/1/24

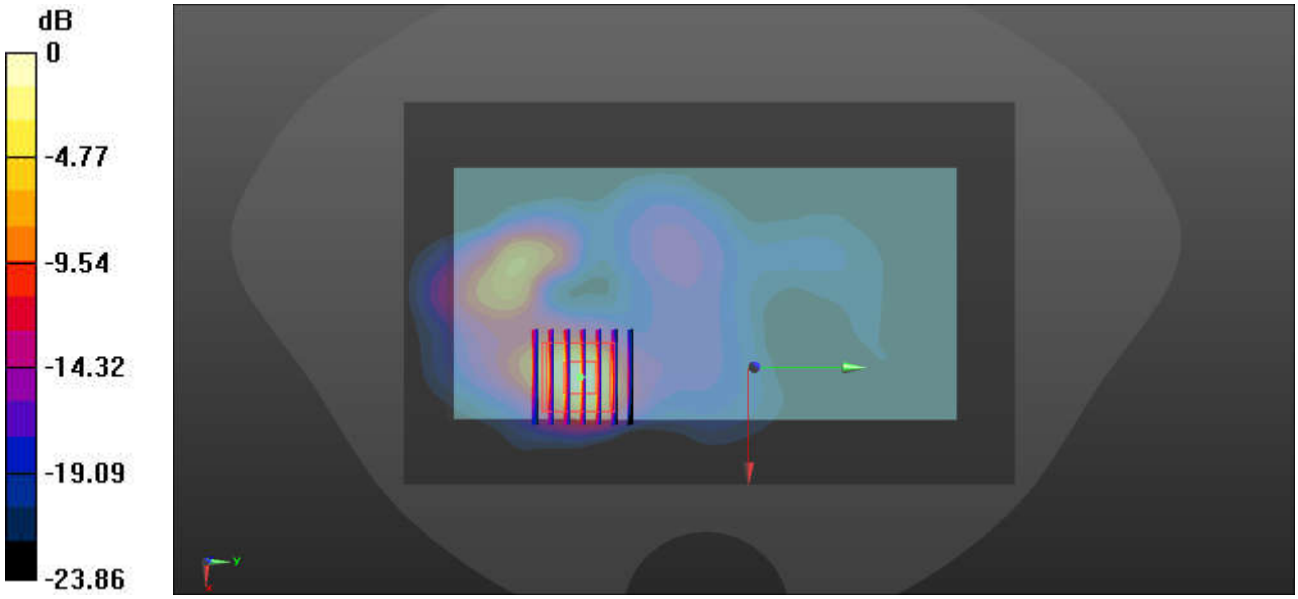
07_WLAN2.4GHz_802.11b 1Mbps_Front_0mm_Ch6

Communication System: UID 0, WLAN2.4GHz (0); Frequency: 2437 MHz;Duty Cycle: 1:1.017
Medium: HSL_2450 Medium parameters used: f = 2437 MHz; σ = 1.73 S/m; ε_r = 39.333; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3857; ConvF(7.71, 7.71, 7.71); Calibrated: 2022/12/14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2022/6/15
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (101x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 5.92 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.663 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 8.15 W/kg
SAR(1 g) = 3.06 W/kg; SAR(10 g) = 1.07 W/kg
Maximum value of SAR (measured) = 6.28 W/kg



0 dB = 6.28 W/kg = 7.98 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2023/1/24

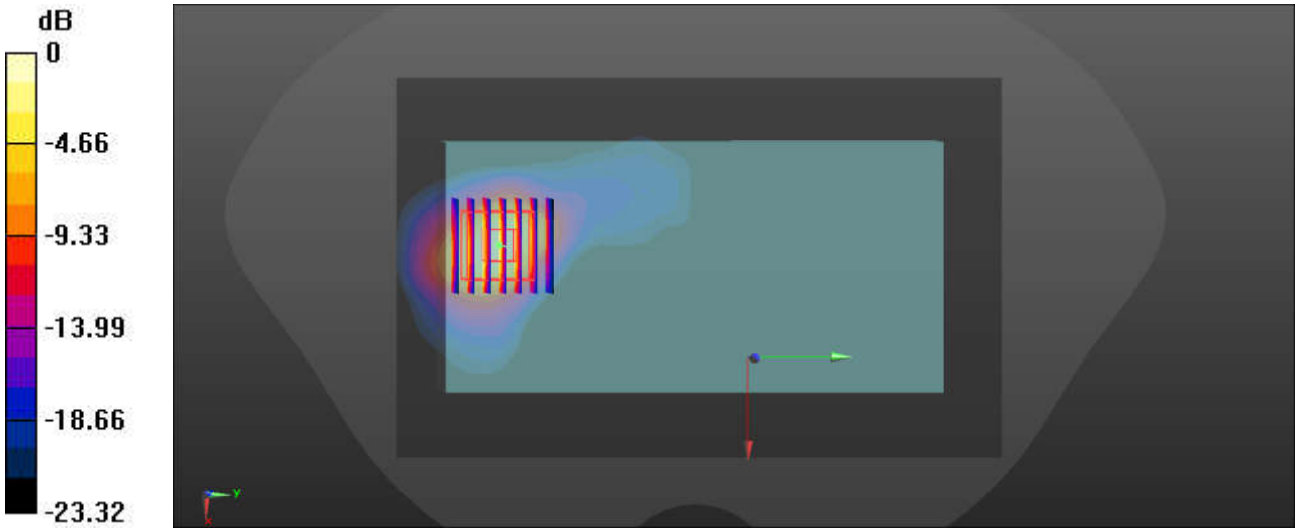
08_Bluetooth_1Mbps_Front_0mm_Ch39

Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz;Duty Cycle: 1:1.297
Medium: HSL_2450 Medium parameters used: f = 2441 MHz; σ = 1.734 S/m; ε_r = 39.31; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3857; ConvF(7.71, 7.71, 7.71); Calibrated: 2022/12/14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2022/6/15
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (101x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.32 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 0.293 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 1.47 W/kg
SAR(1 g) = 0.671 W/kg; SAR(10 g) = 0.275 W/kg
Maximum value of SAR (measured) = 1.18 W/kg



0 dB = 1.18 W/kg = 0.727 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2023/1/25

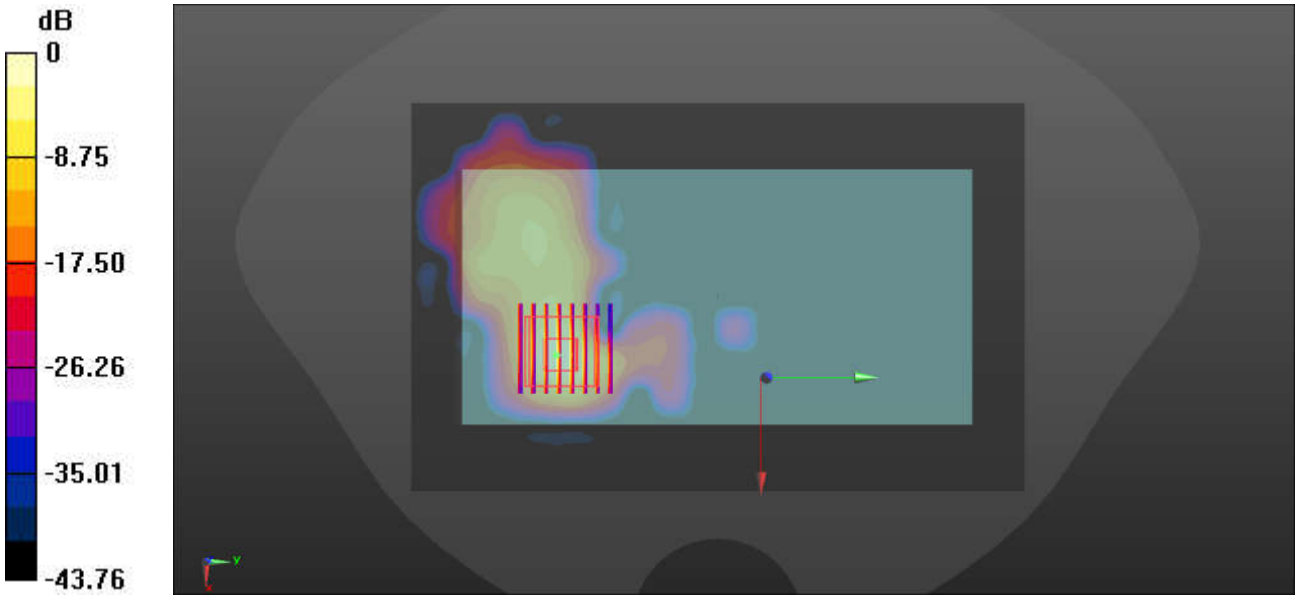
09_WLAN5GHz_802.11n-HT40 MCS0_Front_0mm_Ch62

Communication System: UID 0, WLAN5GHz (0); Frequency: 5310 MHz;Duty Cycle: 1:1
Medium: HSL_5000 Medium parameters used: f = 5310 MHz; σ = 4.651 S/m; ε_r = 35.621; ρ = 1000 kg/m^3
Ambient Temperature：23.1 ℃; Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3857; ConvF(5.21, 5.21, 5.21); Calibrated: 2022/12/14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2022/6/15
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (121x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 15.1 W/kg

Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 2.732 V/m; Power Drift = -0.18 dB
Peak SAR (extrapolated) = 20.5 W/kg
SAR(1 g) = 4.77 W/kg; SAR(10 g) = 1.18 W/kg
Maximum value of SAR (measured) = 12.6 W/kg



0 dB = 12.6 W/kg = 11.00 dBW/kg

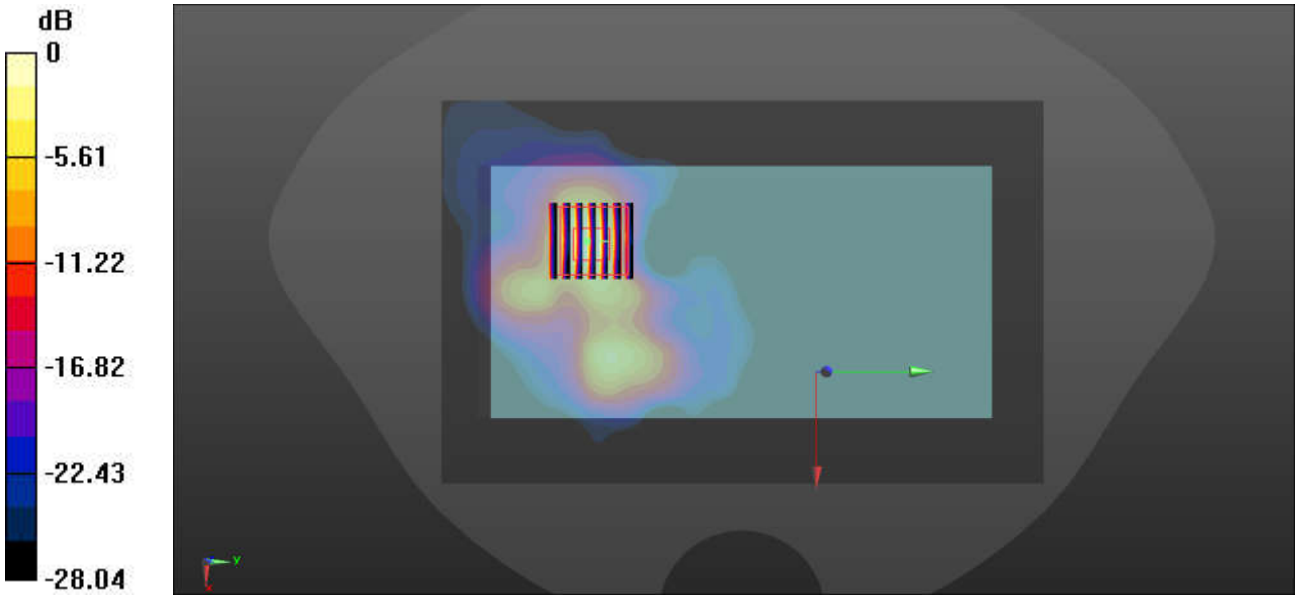
10_WLAN5GHz_802.11a 6Mbps_Front_0mm_Ch140

Communication System: UID 0, WLAN5GHz (0); Frequency: 5700 MHz;Duty Cycle: 1:1.007
Medium: HSL_5000 Medium parameters used: f = 5700 MHz; σ = 5.063 S/m; ε_r = 34.945; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃; Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3857; ConvF(4.93, 4.93, 4.93); Calibrated: 2022/12/14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2022/6/15
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (121x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 18.7 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 3.017 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 25.5 W/kg
SAR(1 g) = 6.22 W/kg; SAR(10 g) = 1.63 W/kg
Maximum value of SAR (measured) = 14.7 W/kg



0 dB = 14.7 W/kg = 11.67 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2023/1/25

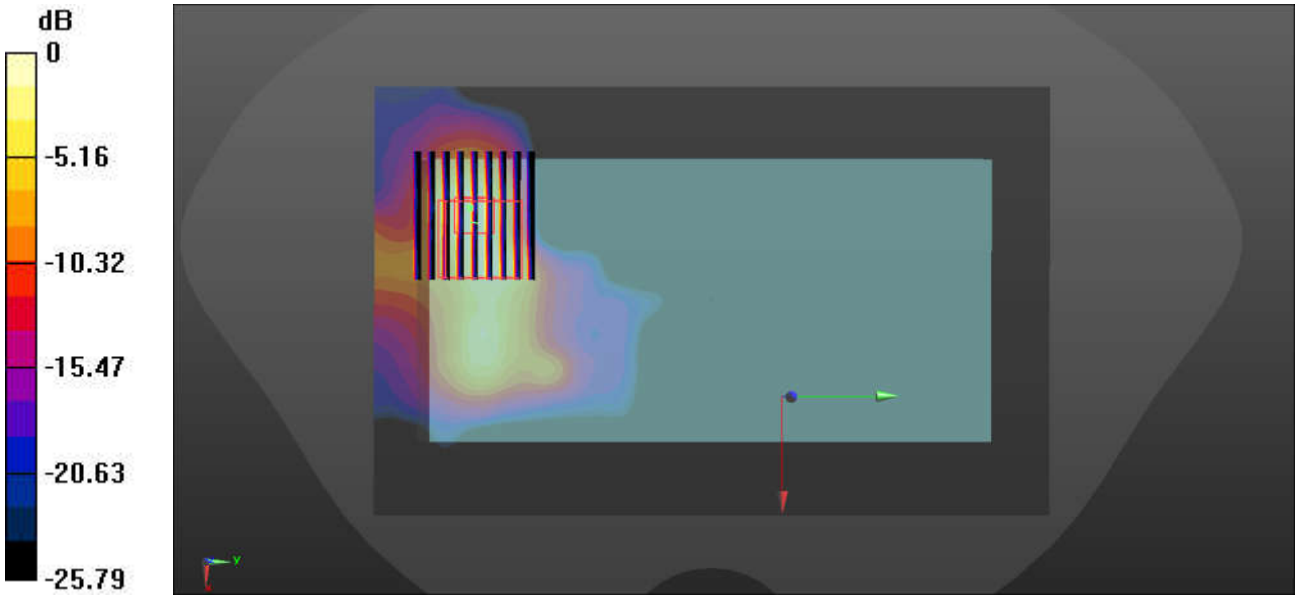
11_WLAN5GHz_802.11a 6Mbps_Front_0mm_Ch165

Communication System: UID 0, WLAN5GHz (0); Frequency: 5825 MHz;Duty Cycle: 1:1.007
Medium: HSL_5000 Medium parameters used: f = 5825 MHz; σ = 5.2 S/m; ε_r = 34.768; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃; Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3857; ConvF(4.93, 4.93, 4.93); Calibrated: 2022/12/14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2022/6/15
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (121x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 7.25 W/kg

Zoom Scan (10x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 3.540 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 12.7 W/kg
SAR(1 g) = 2.95 W/kg; SAR(10 g) = 0.948 W/kg
Maximum value of SAR (measured) = 6.94 W/kg



0 dB = 6.94 W/kg = 8.41 dBW/kg

Date: 2023-01-27

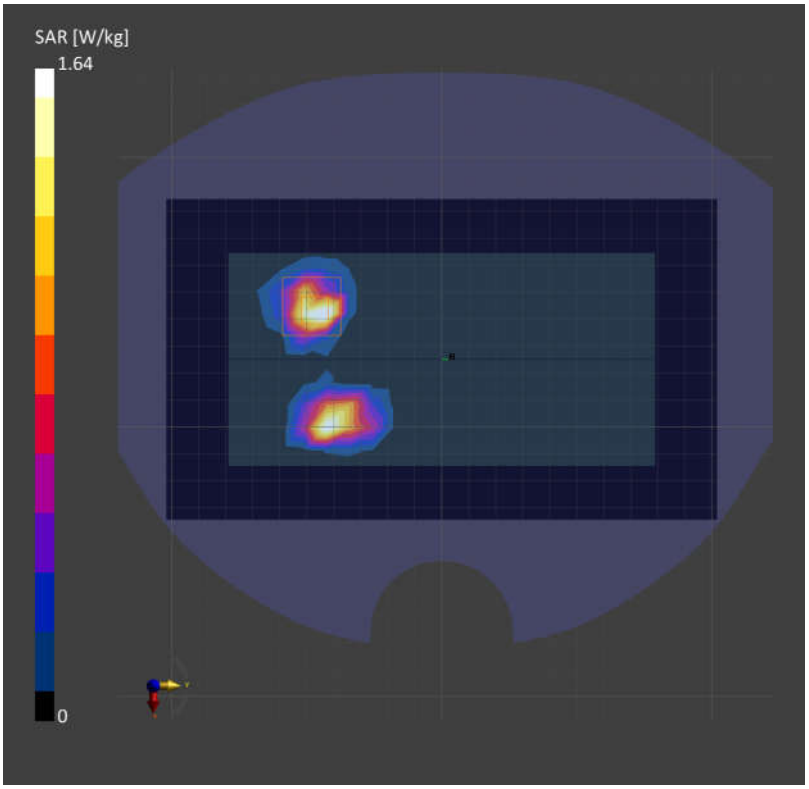
12_WLAN6GHz_802.11ax HE160 MCS0_Front_0mm_Ch207

Communication System: U-NII-8; Frequency: 6985.0
Medium: HSL. Medium parameters used: f= 6985.0 MHz; σ= 6.64 S/m; ε_r = 33.68
Ambient Temperature: 23.3°C; Liquid Temperature: 22.6°C

DASY6 Configuration:
- Probe: EX3DV4 - SN3857; ConvF(5.55, 5.55, 5.55); Calibrated: 2022-12-14
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn690; Calibrated: 2022-06-15
- Phantom: Twin-SAM 1; Serial: 1644; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926

Area Scan (119.0 mm x 204.0 mm): Measurement Grid: 8.5 mm x 8.5 mm
SAR (1g) = 1.40 W/kg; SAR (10g) = 0.385 W/kg;

Zoom Scan (22.0 mm x 22.0 mm x 22.0 mm): Measurement Grid: 3.4 mm x 3.4 mm x 1.4 mm
Power Drift = -0.05 dB
SAR (1g) = 1.64 W/kg; SAR (10g) = 0.392 W/kg;
psAPD (4.0cm2, sq) = 9.28 [W/m2];



01_WLAN6GHz_802.11ax-HE160 MCS0_Front_2mm_Ch111

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	158.0 x 79.0 x 37.0		Phone

Exposure Conditions

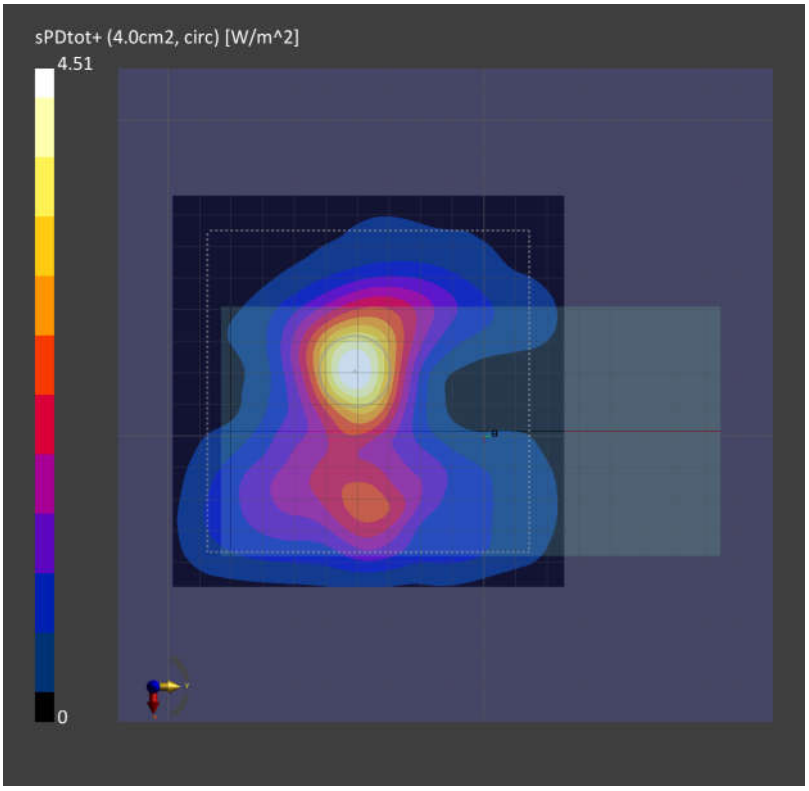
Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G	FRONT, 2.00	U-NII-6	WLAN, 10743-AAC	6505.0, 111	1.0

Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1065	Air -	EUmmWV4 - SN9553_F1-55GHz, 2022-09-09	DAE4 Sn690, 2022-06-15

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	120.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0
MAIA	N/A

Measurement Results

Scan Type	5G Scan
Date	2023-01-28
Avg. Area [cm^2]	4.00
psPDn+ [W/m^2]	4.21
psPDtot+ [W/m^2]	4.51
psPDmod+ [W/m^2]	5.63
E_{max} [V/m]	61.4
Power Drift [dB]	0.09