

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab

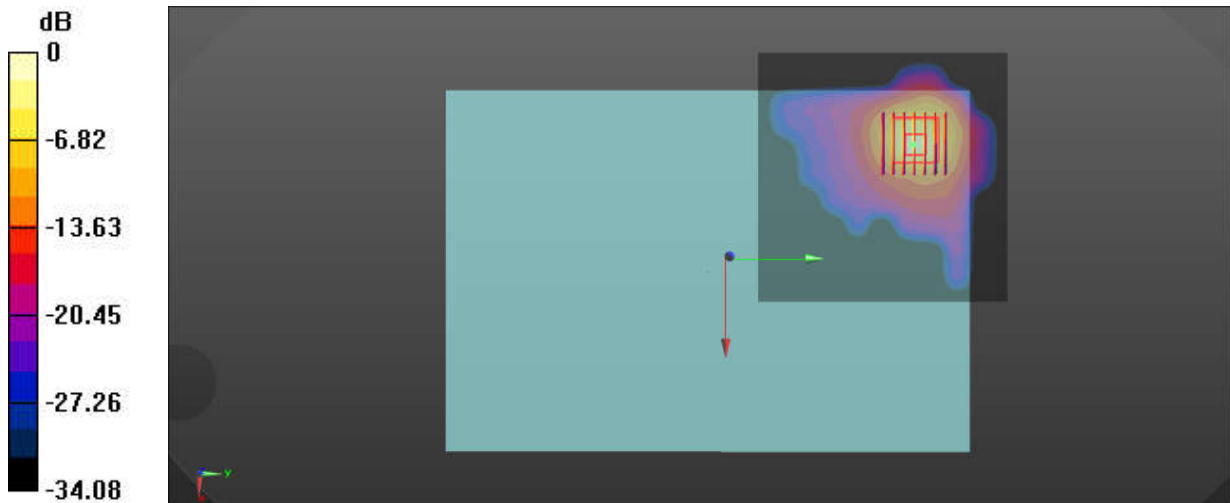
Date: 2024/8/15

01_Bluetooth_DH5 1Mbps_Bottom Face_0mm_Ch0

Communication System: UID 0, Bluetooth (0); Frequency: 2402 MHz; Duty Cycle: 1:1.304
 Medium: HSL_2450 Medium parameters used: $f = 2402 \text{ MHz}$; $\sigma = 1.783 \text{ S/m}$; $\epsilon_r = 40.047$; $\rho = 1000 \text{ kg/m}^3$
 Ambient Temperature : $23.5 \text{ }^\circ\text{C}$; Liquid Temperature : $22.5 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN7641; ConvF(7.81, 7.71, 7.62); Calibrated: 2024/6/3
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1664; Calibrated: 2024/7/10
- Phantom: ELI V5.0; Type: QD OVA 002 AA; Serial: TP:1233
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Area Scan (101x101x1): Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$ Maximum value of SAR (interpolated) = 1.00 W/kg **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 0 V/m ; Power Drift = 0.00 dB Peak SAR (extrapolated) = 1.67 W/kg **SAR(1 g) = 0.618 W/kg ; SAR(10 g) = 0.215 W/kg** Smallest distance from peaks to all points 3 dB below = 5.5 mm Ratio of SAR at M2 to SAR at M1 = 42.3% Maximum value of SAR (measured) = 1.25 W/kg  $0 \text{ dB} = 1.25 \text{ W/kg} = 0.97 \text{ dBW/kg}$

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Date: 2024/8/15

02_WLAN2.4GHz_802.11b 1Mbps_Bottom Face_0mm_Ch1

Communication System: UID 0, WIFI (0); Frequency: 2412 MHz; Duty Cycle: 1:1.022

Medium: HSL_2450 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.79$ S/m; $\epsilon_r = 40.035$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C; Liquid Temperature : 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7641; ConvF(7.81, 7.71, 7.62); Calibrated: 2024/6/3
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1664; Calibrated: 2024/7/10
- Phantom: ELI V5.0; Type: QD OVA 002 AA; Serial: TP:1233
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Area Scan (101x101x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 1.73 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

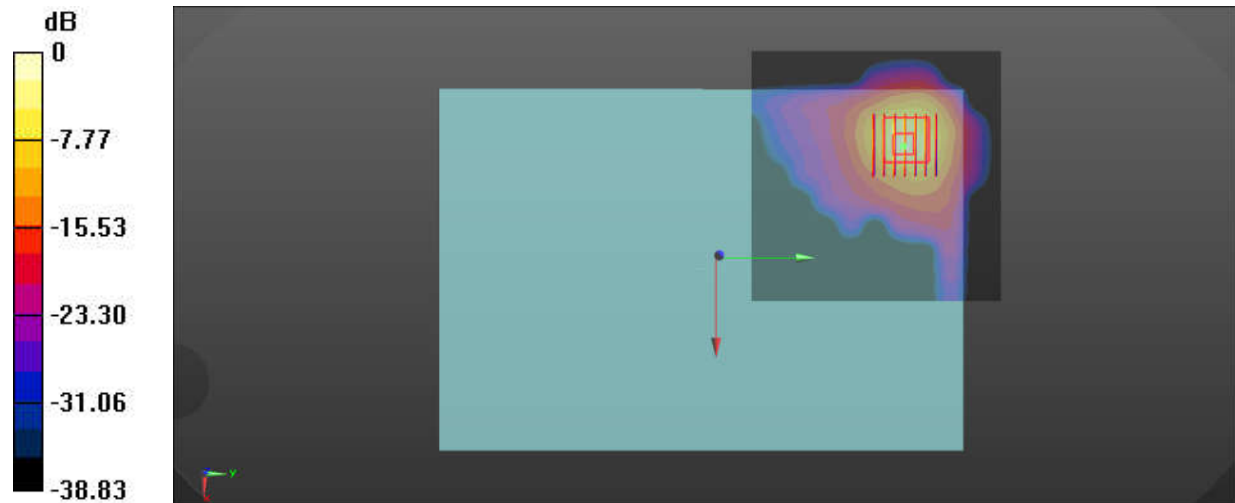
Peak SAR (extrapolated) = 2.25 W/kg

SAR(1 g) = 0.828 W/kg; SAR(10 g) = 0.289 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 41.9%

Maximum value of SAR (measured) = 1.69 W/kg



0 dB = 1.69 W/kg = 2.28 dBW/kg

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Date: 2024/8/16

03_WLAN5GHz_802.11a 6Mbps_Edge 1_0mm_Ch60

Communication System: UID 0, WIFI (0); Frequency: 5300 MHz; Duty Cycle: 1:1.053

Medium: HSL_5250 Medium parameters used: $f = 5300$ MHz; $\sigma = 4.573$ S/m; $\epsilon_r = 35.384$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7641; ConvF(6.15, 6.08, 6.01); Calibrated: 2024/6/3
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1664; Calibrated: 2024/7/10
- Phantom: ELI V5.0; Type: QD OVA 002 AA; Serial: TP:1233
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Area Scan (51x281x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 2.25 W/kg

Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 0 V/m; Power Drift = -0.13 dB

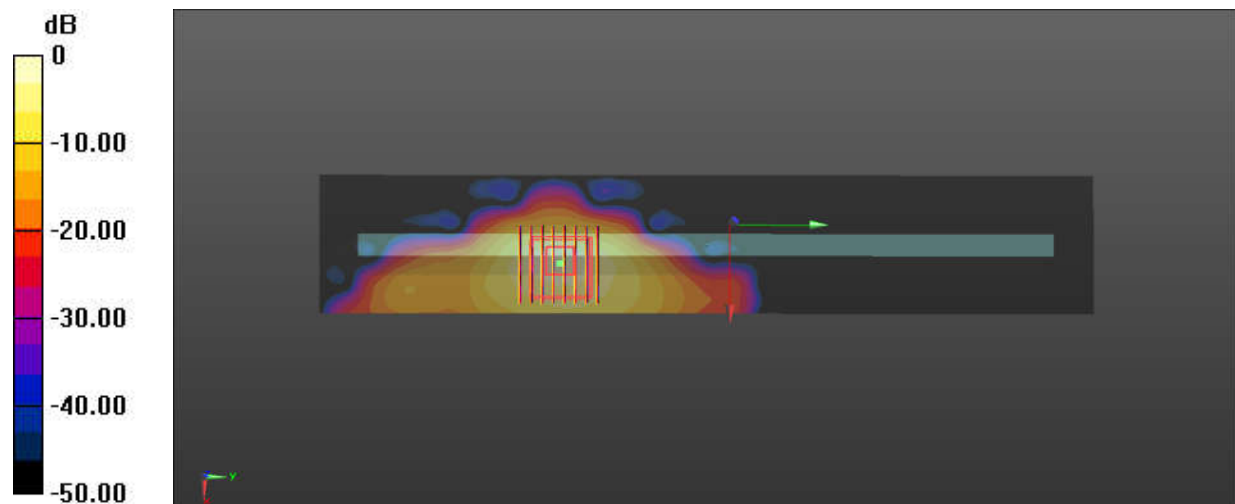
Peak SAR (extrapolated) = 3.69 W/kg

SAR(1 g) = 0.834 W/kg; SAR(10 g) = 0.262 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 61.1%

Maximum value of SAR (measured) = 2.06 W/kg



0 dB = 2.06 W/kg = 3.14 dBW/kg

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Date: 2024/8/17

04_WLAN5GHz_802.11ac-VHT160 MCS0_Bottom Face_0mm_Ch114

Communication System: UID 0, WIFI (0); Frequency: 5570 MHz; Duty Cycle: 1:1
 Medium: HSL_5600 Medium parameters used: $f = 5570 \text{ MHz}$; $\sigma = 4.926 \text{ S/m}$; $\epsilon_r = 37.097$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 23.7 °C; Liquid Temperature : 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7641; ConvF(5.5, 5.44, 5.37); Calibrated: 2024/6/3
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1664; Calibrated: 2024/7/10
- Phantom: ELI V5.0; Type: QD OVA 002 AA; Serial: TP:1233
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Area Scan (121x121x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 2.12 W/kg

Zoom Scan (9x9x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$

Reference Value = 0 V/m; Power Drift = 0.00 dB

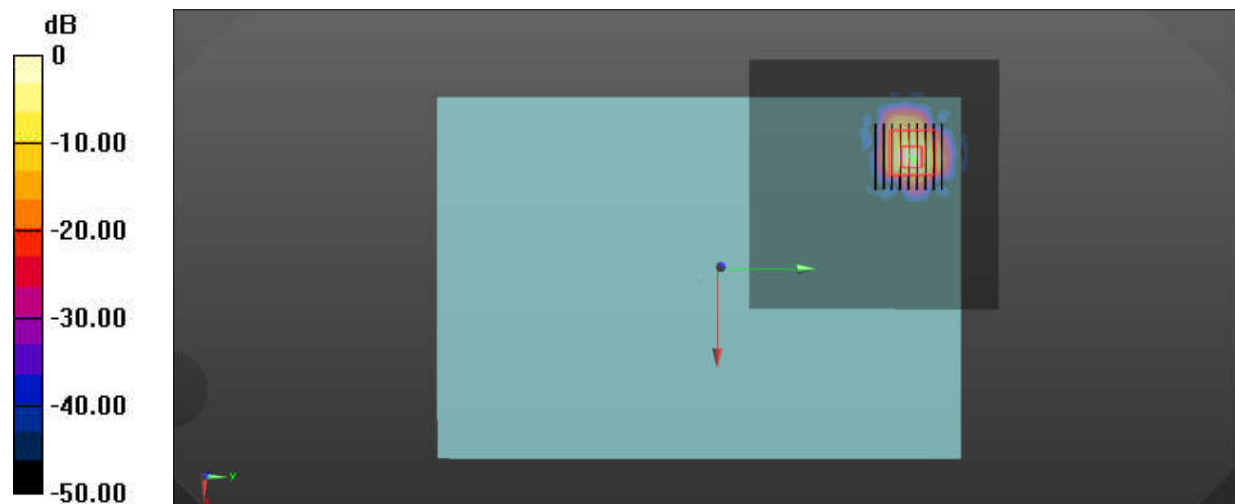
Peak SAR (extrapolated) = 4.17 W/kg

SAR(1 g) = 0.813 W/kg; SAR(10 g) = 0.150 W/kg

Smallest distance from peaks to all points 3 dB below = 5.1 mm

Ratio of SAR at M2 to SAR at M1 = 63.2%

Maximum value of SAR (measured) = 2.38 W/kg



0 dB = 2.38 W/kg = 3.77 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab

Date: 2024/8/18

05_WLAN5GHz_802.11ac-VHT80 MCS0_Edge 1_0mm_Ch155

Communication System: UID 0, WIFI (0); Frequency: 5755 MHz; Duty Cycle: 1:1
 Medium: HSL_5750 Medium parameters used: $f = 5755$ MHz; $\sigma = 5.071$ S/m; $\epsilon_r = 36.591$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C; Liquid Temperature : 22.9 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7641; ConvF(5.47, 5.41, 5.34); Calibrated: 2024/6/3
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1664; Calibrated: 2024/7/10
- Phantom: ELI V5.0; Type: QD OVA 002 AA; Serial: TP:1233
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Area Scan (51x281x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 2.39 W/kg

Zoom Scan (8x8x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 0.7840 V/m; Power Drift = 0.05 dB

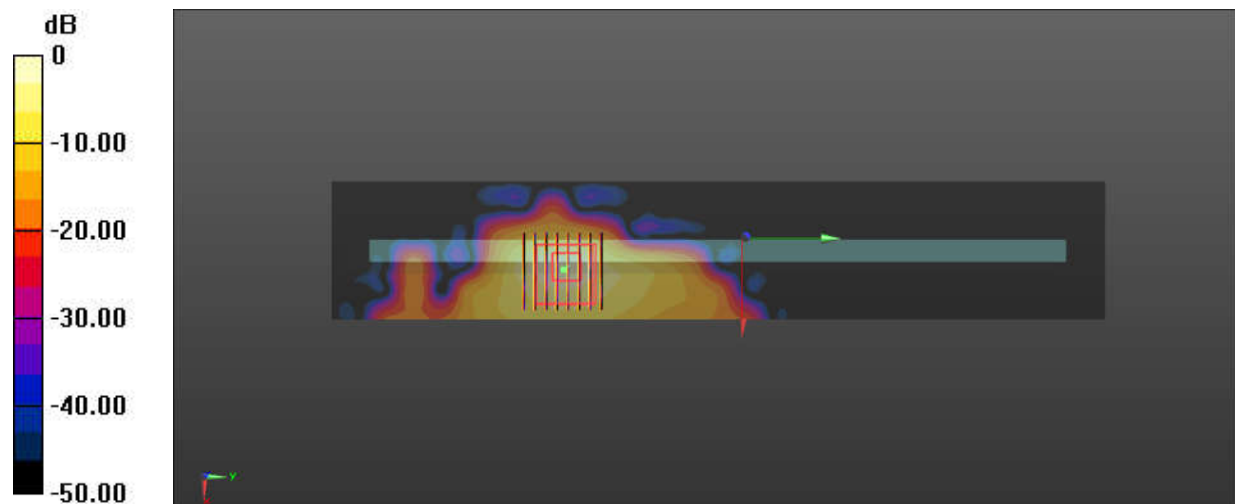
Peak SAR (extrapolated) = 4.40 W/kg

SAR(1 g) = 0.825 W/kg; SAR(10 g) = 0.250 W/kg

Smallest distance from peaks to all points 3 dB below = 4.8 mm

Ratio of SAR at M2 to SAR at M1 = 56.8%

Maximum value of SAR (measured) = 2.20 W/kg



0 dB = 2.20 W/kg = 3.42 dBW/kg

Date: 2024/8/23

06_WLAN6GHz_802.11ax-HE160 MCS0_Bottom Face_0mm_Ch47

Communication System: IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle); Frequency: 6185.0 MHz; Duty Cycle: 1:1

Medium: HSL Medium parameters used: $f = 6185.0$ MHz; $\sigma = 5.77$ S/m; $\epsilon_r = 34.5$

Ambient Temperature: 23.8°C; Liquid Temperature: 22.6°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7641; ConvF(5.45, 5.38, 5.32); Calibrated: 2024/6/3
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1664; Calibrated: 2024/7/10
- Phantom: ELI V5.0 (20deg probe tilt); Serial: 1233; Section: Flat
- Measurement Software: 16.0.0.116
- UID: WLAN, 10755-AAC

Pin=dBm/Area Scan (204.0 mm x 289.0 mm): Measurement Grid: 8.5 mm x 8.5 mm
SAR (1g) = 0.777 W/kg; SAR (10g) = 0.173 W/kg;

Pin=dBm/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

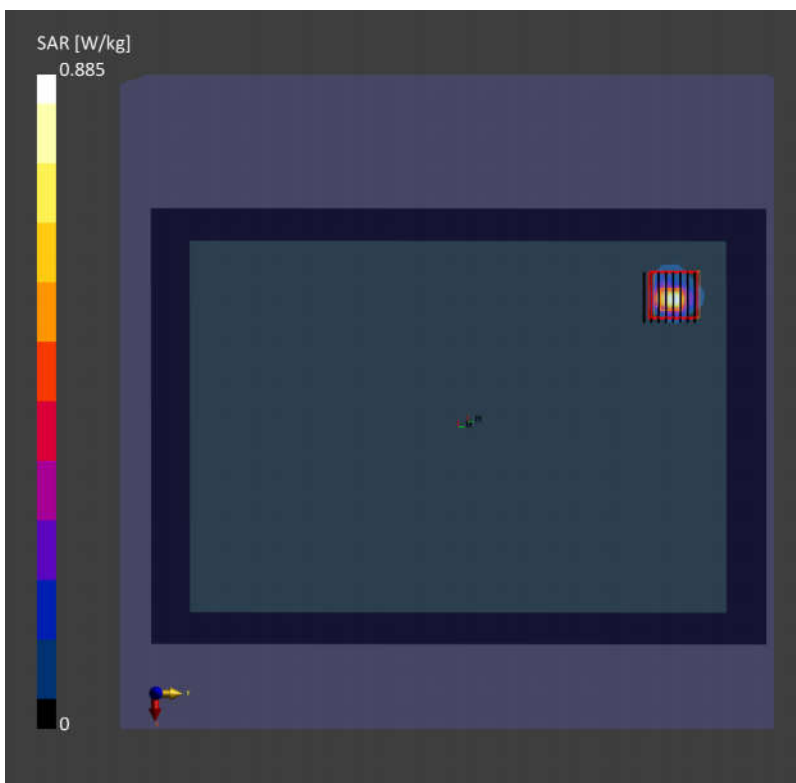
Power Drift = 0.04 dB

SAR (1g) = 0.886 W/kg; SAR (10g) = 0.186 W/kg

Smallest distance from peaks to all points 3 dB below = 4.8 mm

Ratio of SAR at M2 to SAR at M1 = 54.5 %

psAPD (4.0cm², sq) = 4.52 [W/m²]



01_Measurement Report for Device, BACK, U-NII-5, IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 47 (6185.0MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	252.0 x 174.0 x 8.0		Phone

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G	BACK, 2.00	U-NII-5	WLAN, 10755-AAC	6185.0, 47	1.0

Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave	Air -	EUmmWV4 - SN9432_F1-55GHz, 2023-12-13	DAE4 Sn1664, 2024-07-10

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	2024-08-18
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	2.95
psPDtot+ [W/m ²]	3.98
psPDmod+ [W/m ²]	4.26
E _{max} [V/m]	62.4
Power Drift [dB]	-0.1

