

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

Date: 2024/8/19

**01\_Bluetooth\_DH5 1Mbps\_Bottom Face\_0mm\_Ch39**

Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz; Duty Cycle: 1:1.298  
 Medium: HSL\_2450 Medium parameters used:  $f = 2441$  MHz;  $\sigma = 1.774$  S/m;  $\epsilon_r = 37.875$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.4 °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 (91x101x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.922 W/kg

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

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

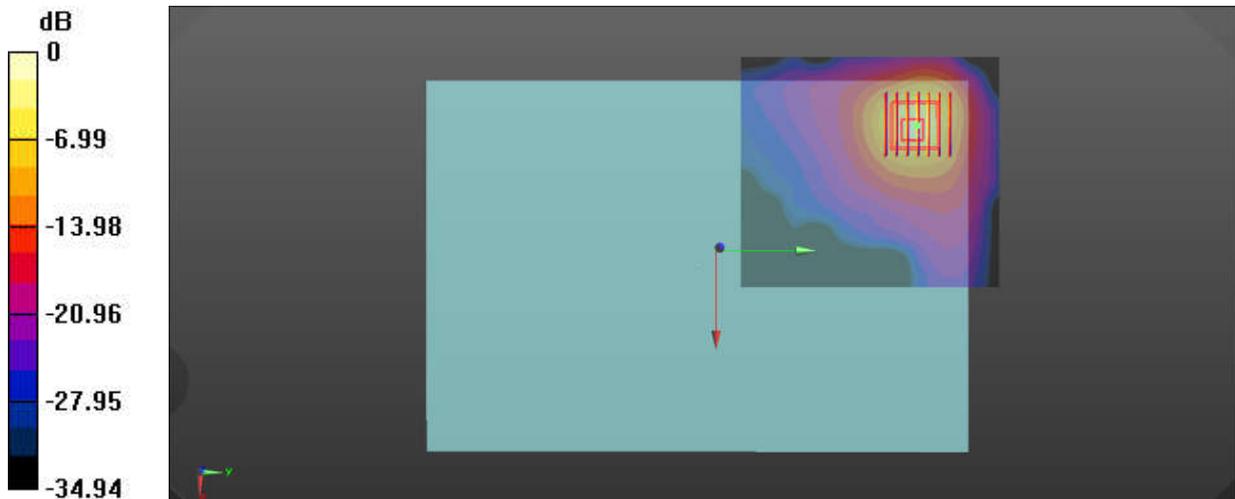
Peak SAR (extrapolated) = 1.99 W/kg

**SAR(1 g) = 0.702 W/kg; SAR(10 g) = 0.242 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 40.5%

Maximum value of SAR (measured) = 0.977 W/kg



0 dB = 0.977 W/kg = -0.10 dBW/kg

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

Date: 2024/8/19

**02\_WLAN2.4GHz\_802.11b 1Mbps\_Bottom Face\_0mm\_Ch11**

Communication System: UID 0, WIFI (0); Frequency: 2462 MHz; Duty Cycle: 1:1  
 Medium: HSL\_2450 Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.792$  S/m;  $\epsilon_r = 37.856$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Ambient Temperature : 23.4 °C; Liquid Temperature : 22.4 °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 (101x111x1):** Interpolated grid:  $dx=1.200$  mm,  $dy=1.200$  mm

Maximum value of SAR (interpolated) = 1.52 W/kg

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

Reference Value = 3.939 V/m; Power Drift = -0.06 dB

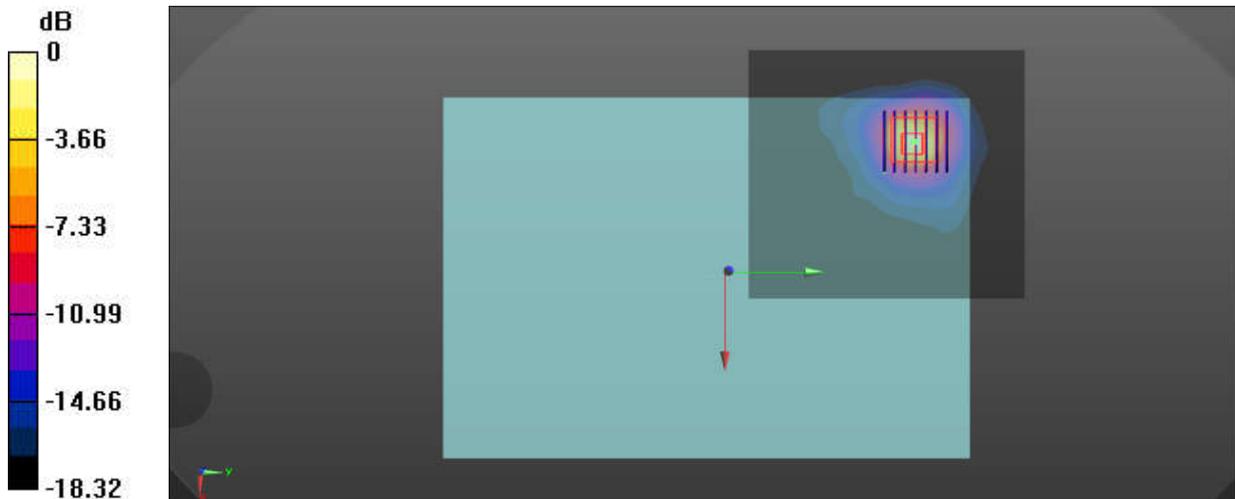
Peak SAR (extrapolated) = 2.33 W/kg

**SAR(1 g) = 0.846 W/kg; SAR(10 g) = 0.314 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 38.6%

Maximum value of SAR (measured) = 1.60 W/kg



0 dB = 1.60 W/kg = 2.04 dBW/kg

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Date: 2024/8/20

**03\_WLAN5GHz\_802.11ac-VHT160 MCS0\_Bottom Face\_0mm\_Ch50**

Communication System: UID 0, WIFI (0); Frequency: 5250 MHz; Duty Cycle: 1:1  
 Medium: HSL\_5250 Medium parameters used:  $f = 5250$  MHz;  $\sigma = 4.529$  S/m;  $\epsilon_r = 35.806$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Ambient Temperature : 23.6 °C; Liquid Temperature : 22.4 °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 (121x121x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm

Maximum value of SAR (interpolated) = 1.86 W/kg

**Zoom Scan (10x9x7)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm

Reference Value = 3.600 V/m; Power Drift = 0.07 dB

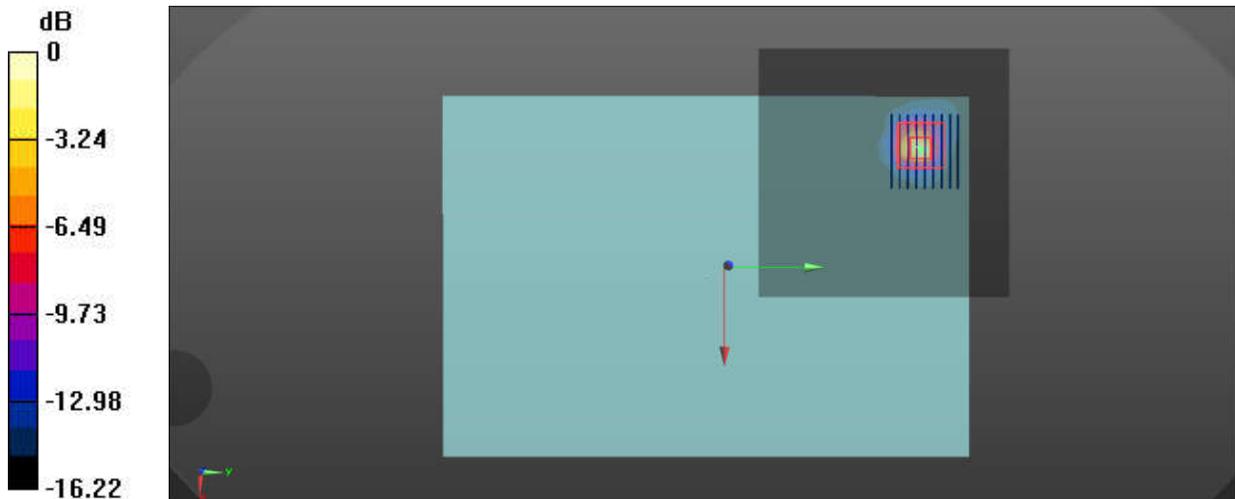
Peak SAR (extrapolated) = 3.11 W/kg

**SAR(1 g) = 0.827 W/kg; SAR(10 g) = 0.225 W/kg**

Smallest distance from peaks to all points 3 dB below = 5.4 mm

Ratio of SAR at M2 to SAR at M1 = 73.6%

Maximum value of SAR (measured) = 1.99 W/kg



0 dB = 1.99 W/kg = 2.99 dBW/kg

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

Date: 2024/8/21

**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:  $f = 5570$  MHz;  $\sigma = 4.881$  S/m;  $\epsilon_r = 35.271$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Ambient Temperature : 23.5 °C; Liquid Temperature : 22.7 °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 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 2.19 W/kg

**Zoom Scan (11x10x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 3.821 V/m; Power Drift = -0.17 dB

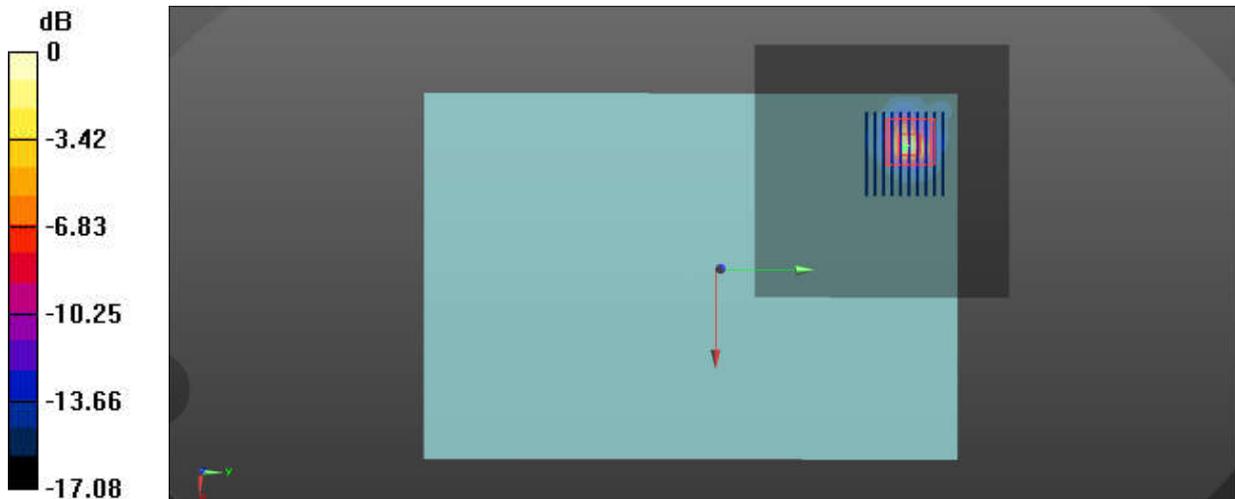
Peak SAR (extrapolated) = 3.58 W/kg

**SAR(1 g) = 0.916 W/kg; SAR(10 g) = 0.246 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 71%

Maximum value of SAR (measured) = 2.42 W/kg



0 dB = 2.42 W/kg = 3.84 dBW/kg

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

Date: 2024/8/22

**05\_WLAN5GHz\_802.11ac-VHT80 MCS0\_Bottom Face\_0mm\_Ch155**

Communication System: UID 0, WIFI (0); Frequency: 5775 MHz; Duty Cycle: 1:1  
 Medium: HSL\_5750 Medium parameters used:  $f = 5775$  MHz;  $\sigma = 5.118$  S/m;  $\epsilon_r = 34.877$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Ambient Temperature : 23.8 °C; Liquid Temperature : 22.3 °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 (121x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.76 W/kg

**Zoom Scan (11x10x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 4.024 V/m; Power Drift = 0.04 dB

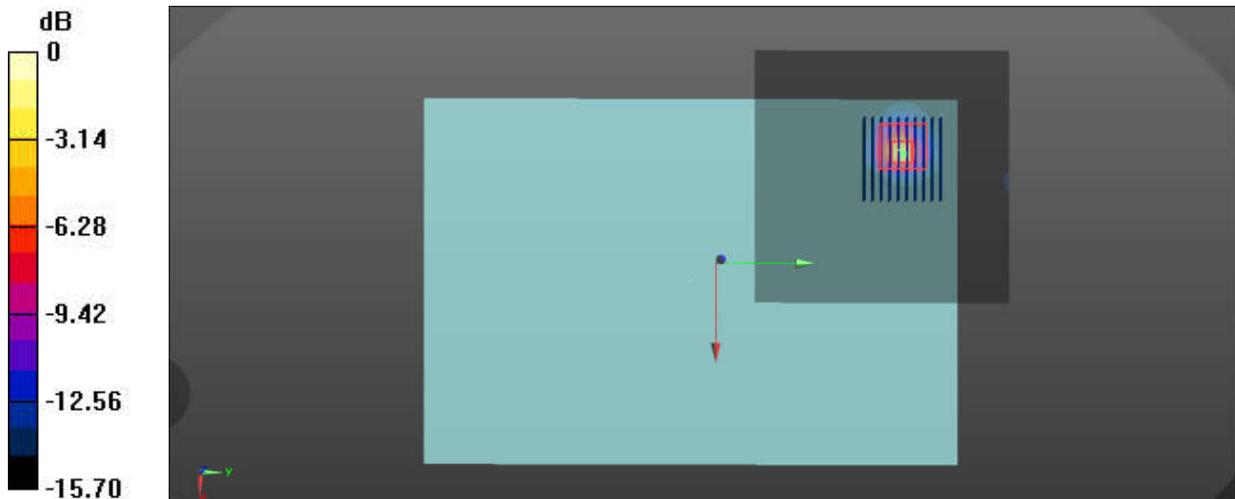
Peak SAR (extrapolated) = 3.26 W/kg

**SAR(1 g) = 0.780 W/kg; SAR(10 g) = 0.225 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 68.9%

Maximum value of SAR (measured) = 2.05 W/kg



0 dB = 2.05 W/kg = 3.12 dBW/kg

Date: 2024/8/29

**06\_WLAN6GHz\_802.11be-EHT320 MCS0\_Bottom Face\_0mm\_Ch63**

Communication System: IEEE 802.11be (320MHz, MCS0, 99pc duty cycle); Frequency: 6265.0 MHz; Duty Cycle: 1:1.004

Medium: HSL Medium parameters used:  $f = 6265.0$  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, 10743-AAC

**Pin=dBm/Area Scan (204.0 mm x 289.0 mm):** Measurement Grid: 8.5 mm x 8.5 mm

SAR (1g) = 0.769 W/kg; SAR (10g) = 0.161 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

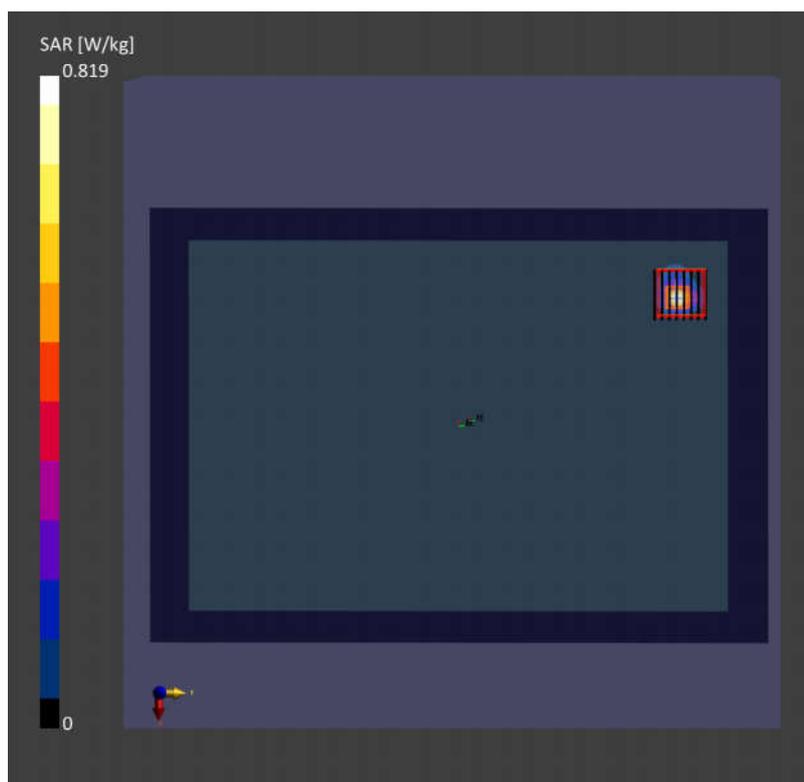
Power Drift = -0.03 dB

SAR (1g) = 0.819 W/kg; SAR (10g) = 0.169 W/kg

Smallest distance from peaks to all points 3 dB below = 3.4 mm

Ratio of SAR at M2 to SAR at M1 = 56.1 %

psAPD (4.0cm<sup>2</sup>, sq) = 6.87 [W/m<sup>2</sup>]



01\_Measurement Report for Device, BACK, U-NII-8, IEEE 802.11be (320MHz, MCS0, 99pc duty cycle), Channel 191 (6905.0MHz)

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-8	WLAN, 11026-AAA	6905.0, 191	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	2024-08-28
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	3.70
psPDtot+ [W/m <sup>2</sup> ]	4.22
psPDmod+ [W/m <sup>2</sup> ]	5.33
E <sub>max</sub> [V/m]	73.4
Power Drift [dB]	-0.05

