

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

Date: 2024/8/15

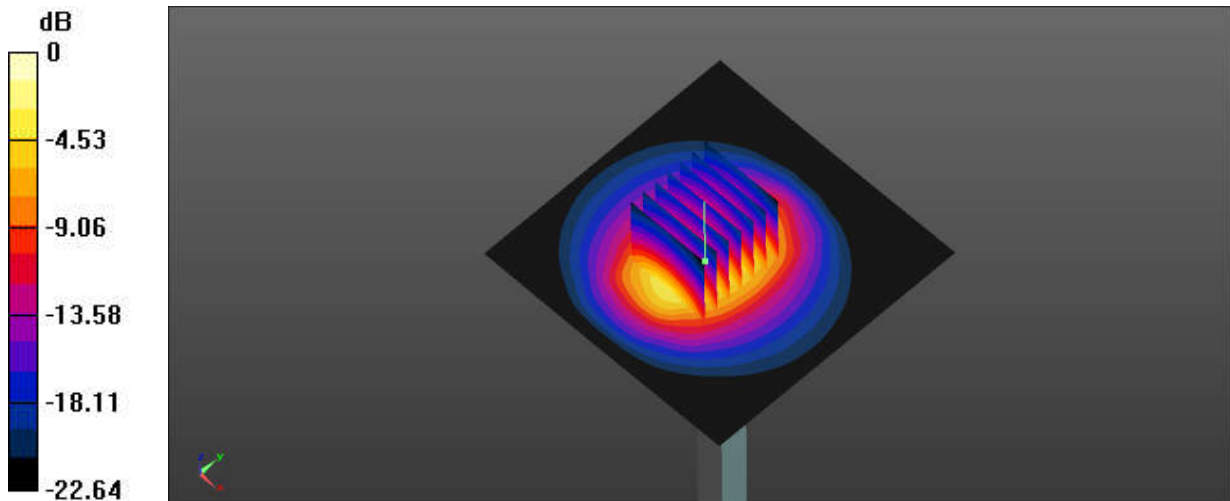
System Check_2450MHz**DUT: D2450V2-SN:924**

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: HSL_2450 Medium parameters used: $f = 2450 \text{ MHz}$; $\sigma = 1.815 \text{ S/m}$; $\epsilon_r = 37.601$; $\rho = 1000 \text{ kg/m}^3$ 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)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$ Maximum value of SAR (interpolated) = 19.2 W/kg **Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 66.69 V/m ; Power Drift = 0.04 dB Peak SAR (extrapolated) = 14.6 W/kg **SAR(1 g) = 13.7 W/kg ; SAR(10 g) = 6.31 W/kg** Smallest distance from peaks to all points 3 dB below = 9 mm Ratio of SAR at M2 to SAR at M1 = 48.9% Maximum value of SAR (measured) = 18.9 W/kg 0 dB = 18.9 W/kg = 17.7 dBW/kg

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

Date: 2024/8/19

System Check_2450MHz**DUT: D2450V2-SN:924**

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: HSL_2450 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.866$ S/m; $\epsilon_r = 37.65$; $\rho = 1000$ kg/m³

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)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 18.9 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 68.80 V/m; Power Drift = 0.06 dB

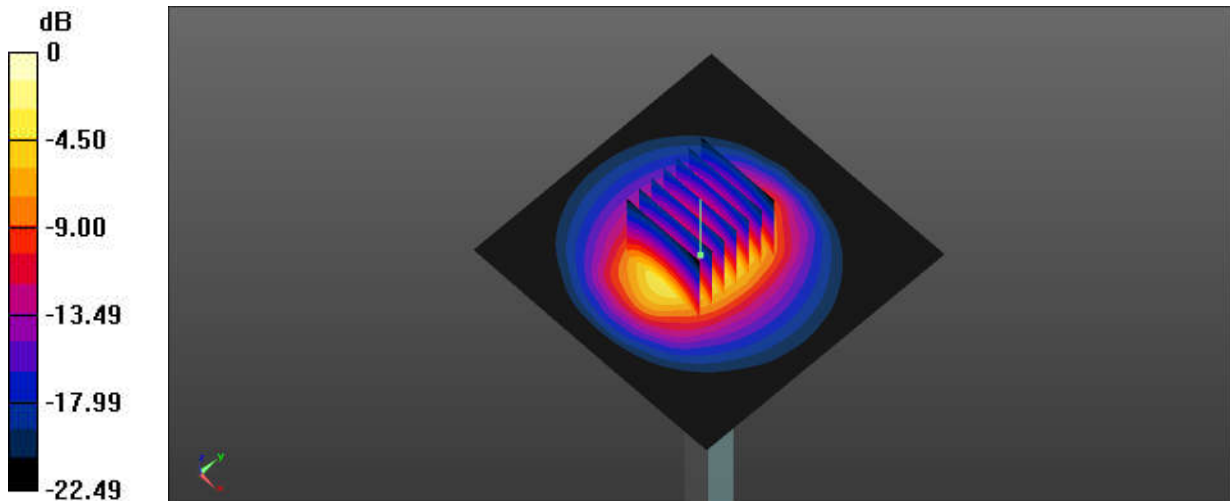
Peak SAR (extrapolated) = 15.6 W/kg

SAR(1 g) = 13.6 W/kg; SAR(10 g) = 6.4 W/kg

Smallest distance from peaks to all points 3 dB below = 9.1 mm

Ratio of SAR at M2 to SAR at M1 = 49%

Maximum value of SAR (measured) = 18.8 W/kg



0 dB = 18.8 W/kg = 17.7 dBW/kg

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

Date: 2024/8/16

System Check_5250MHz**DUT: D5GHzV2-SN:1341**

Communication System: UID 0, CW; Frequency: 5250 MHz; Duty Cycle: 1:1

Medium: HSL_5250 Medium parameters used: $f = 5250$ MHz; $\sigma = 4.583$ S/m; $\epsilon_r = 36.663$; $\rho = 1000$ 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)

Pin=100mW/Area Scan (71x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 15.7 W/kg

Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 41.10 V/m; Power Drift = 0.12 dB

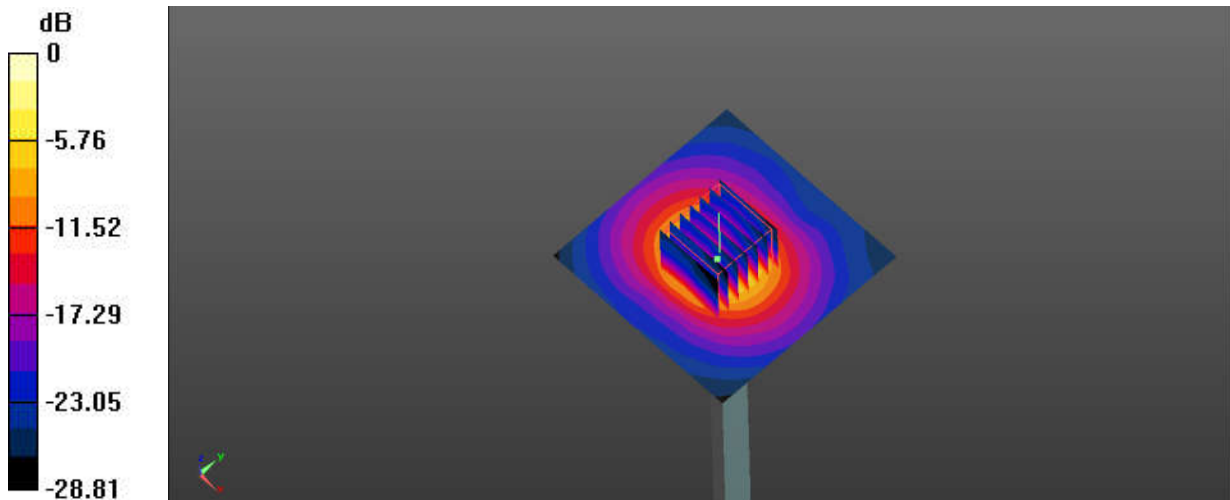
Peak SAR (extrapolated) = 19.5 W/kg

SAR(1 g) = 8.47 W/kg; SAR(10 g) = 2.27 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 62.4%

Maximum value of SAR (measured) = 15.9 W/kg



0 dB = 15.9 W/kg = 12.37 dBW/kg

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

Date: 2024/8/20

System Check_5250MHz**DUT: D5GHzV2-SN:1341**

Communication System: UID 0, CW; Frequency: 5250 MHz; Duty Cycle: 1:1

Medium: HSL_5250 Medium parameters used: $f = 5250$ MHz; $\sigma = 4.479$ S/m; $\epsilon_r = 35.535$; $\rho = 1000$ kg/m³

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)

Pin=100mW/Area Scan (71x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 20.8 W/kg

Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 81.66 V/m; Power Drift = -0.12 dB

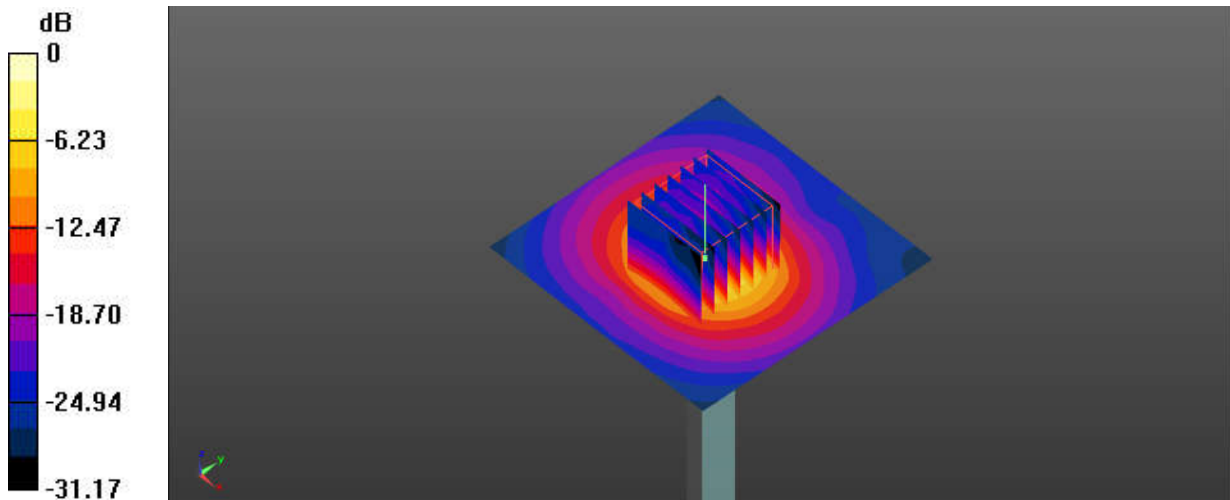
Peak SAR (extrapolated) = 24.8 W/kg

SAR(1 g) = 8.48 W/kg; SAR(10 g) = 2.26 W/kg

Smallest distance from peaks to all points 3 dB below = 7.4 mm

Ratio of SAR at M2 to SAR at M1 = 62%

Maximum value of SAR (measured) = 21.2 W/kg



0 dB = 21.2 W/kg = 20.49 dBW/kg

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

Date: 2024/8/17

System Check_5600MHz**DUT: D5GHzV2-SN:1341**

Communication System: UID 0, CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: HSL_5600 Medium parameters used: $f = 5600$ MHz; $\sigma = 4.913$ S/m; $\epsilon_r = 37.082$; $\rho = 1000$ kg/m³

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)

Pin=100mW/Area Scan (71x71x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 15.3 W/kg

Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 72.23 V/m; Power Drift = -0.05 dB

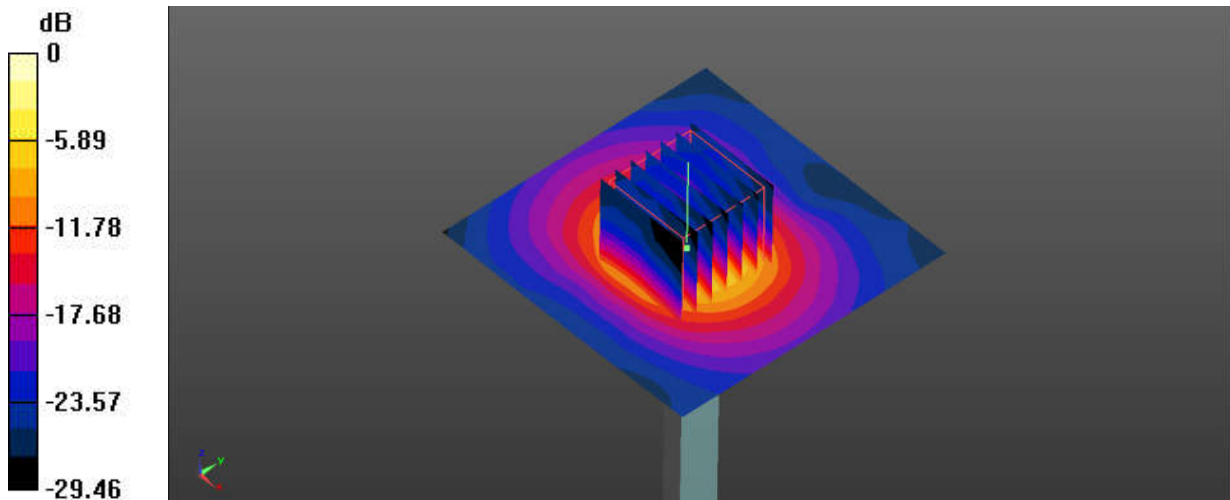
Peak SAR (extrapolated) = 23.5 W/kg

SAR(1 g) = 7.96 W/kg; SAR(10 g) = 2.35 W/kg

Smallest distance from peaks to all points 3 dB below = 7.4 mm

Ratio of SAR at M2 to SAR at M1 = 59.3%

Maximum value of SAR (measured) = 15.6 W/kg



0 dB = 15.6 W/kg = 11.00 dBW/kg

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

Date: 2024/8/21

System Check_5600MHz**DUT: D5GHzV2-SN:1341**

Communication System: UID 0, CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: HSL_5600 Medium parameters used: $f = 5600$ MHz; $\sigma = 5.182$ S/m; $\epsilon_r = 36.105$; $\rho = 1000$ kg/m³

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)

Pin=100mW/Area Scan (71x71x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 19.1 W/kg

Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 74.85 V/m; Power Drift = -0.07 dB

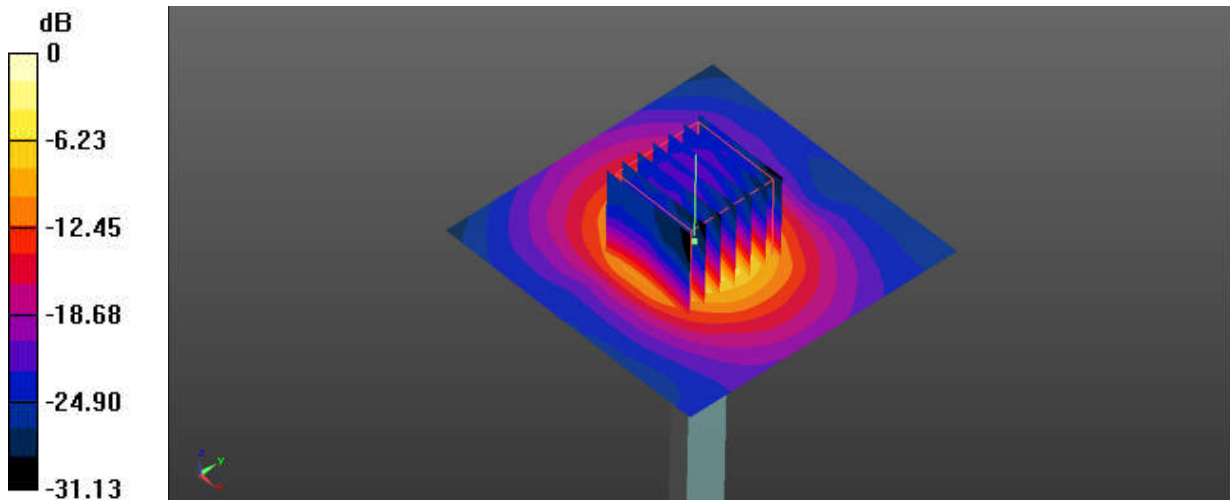
Peak SAR (extrapolated) = 26.7 W/kg

SAR(1 g) = 8.52 W/kg; SAR(10 g) = 2.45 W/kg

Smallest distance from peaks to all points 3 dB below = 7.4 mm

Ratio of SAR at M2 to SAR at M1 = 59.3%

Maximum value of SAR (measured) = 18.9 W/kg



0 dB = 18.9 W/kg = 17.43 dBW/kg

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

Date: 2024/8/18

System Check_5750MHz**DUT: D5GHzV2-SN:1341**

Communication System: UID 0, CW (0); Frequency: 5750 MHz; Duty Cycle: 1:1

Medium: HSL_5750 Medium parameters used: $f = 5750$ MHz; $\sigma = 5.066$ S/m; $\epsilon_r = 36.594$; $\rho = 1000$ 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)

Pin=100mW/Area Scan (71x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 11.7 W/kg

Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 39.72 V/m; Power Drift = -0.08 dB

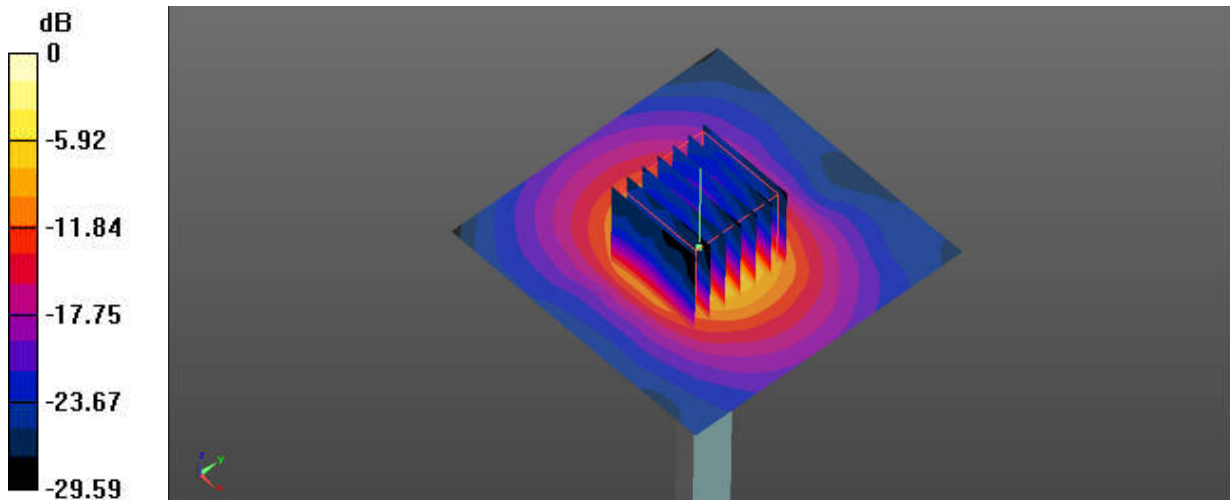
Peak SAR (extrapolated) = 23.4 W/kg

SAR(1 g) = 7.63 W/kg; SAR(10 g) = 2.29 W/kg

Smallest distance from peaks to all points 3 dB below = 7.5 mm

Ratio of SAR at M2 to SAR at M1 = 58.2%

Maximum value of SAR (measured) = 12.2 W/kg



0 dB = 12.2 W/kg = 10.86 dBW/kg

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

Date: 2024/8/22

System Check_5750MHz**DUT: D5GHzV2-SN:1341**

Communication System: UID 0, CW (0); Frequency: 5750 MHz; Duty Cycle: 1:1

Medium: HSL_5750 Medium parameters used: $f = 5750$ MHz; $\sigma = 5.357$ S/m; $\epsilon_r = 35.815$; $\rho = 1000$ kg/m³

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)

Pin=100mW/Area Scan (71x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 16.5 W/kg

Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 40.64 V/m; Power Drift = -0.09 dB

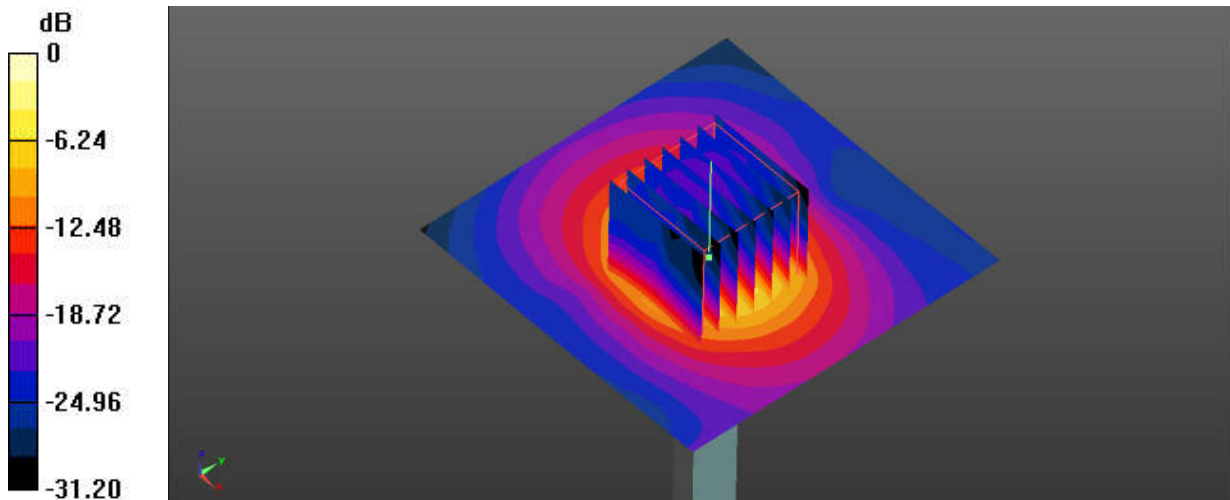
Peak SAR (extrapolated) = 29.4 W/kg

SAR(1 g) = 7.58 W/kg; SAR(10 g) = 2.16 W/kg

Smallest distance from peaks to all points 3 dB below = 7.5 mm

Ratio of SAR at M2 to SAR at M1 = 58.2%

Maximum value of SAR (measured) = 16.8 W/kg



0 dB = 16.8 W/kg = 15.40 dBW/kg

Date: 2024/8/23

System Check_6500MHz**DUT:D6.5GHzV2-SN:1026**

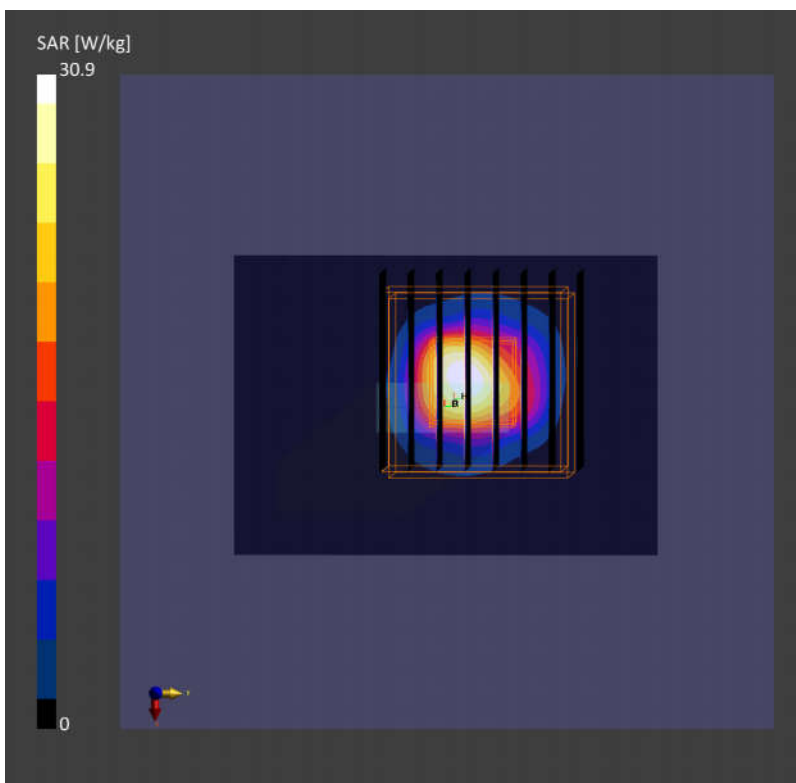
Communication System: CW; Frequency: 6500.0 MHz; Duty Cycle: 1:1
Medium: HSL Medium parameters used: $f = 6500.0$ MHz; $\sigma = 6.08$ S/m; $\epsilon_r = 34.0$
Ambient Temperature: 23.8°C; Liquid Temperature: 22.6°C

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: CW, 0--

Pin=100mW/Area Scan (36.0 mm x 51.0 mm): Measurement Grid: 8.5 mm x 8.5 mm
mmSAR (1g) = 26.8 W/kg; SAR (10g) = 5.41 W/kg;

Pin=100mW/Zoom Scan (22.0 mm x 22.0 mm x 22.0 mm): Measurement Grid: 3.4 mm x 3.4mm x 1.4 mm
Power Drift = 0.01 dB
SAR (1g) = 30.9 W/kg; SAR (10g) = 5.59 W/kg
Smallest distance from peaks to all points 3 dB below = 4.3 mm
Ratio of SAR at M2 to SAR at M1 = 51.6 %
psAPD (4.0cm², sq) = 137 [W/m²]



Measurement Report for Device, FRONT, Validation band, CW, Channel 10000 (10000.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	100.0 x 100.0 x 105.0		Source

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G	FRONT, 10.00	Validation band	CW, 0--	10000.0, 10000	1.0

Hardware Setup

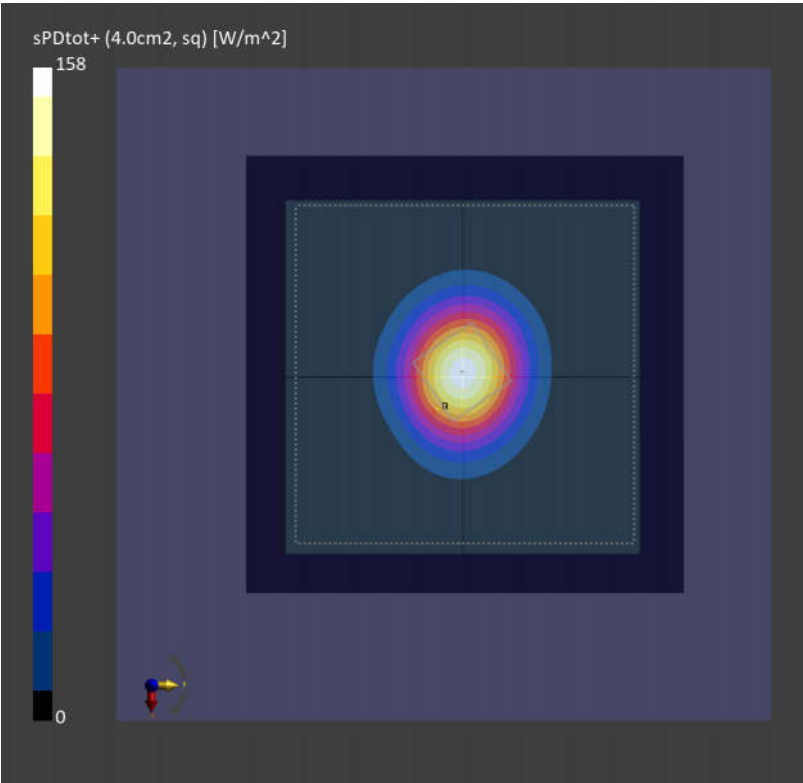
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave	Air -	EUmmWV4 - SN9432_F1-55GHz, 2023-12-13	DAE4 Sn1664, 2024-7-10

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	120.0 x 120.0
Grid Steps [lambda]	0.125 x 0.125
Sensor Surface [mm]	10.0
MAIA	N/A

Measurement Results

Scan Type	5G Scan
Date	2024-08-18
Avg. Area [cm²]	4.00
psPDn+ [W/m²]	156
psPDtot+ [W/m²]	158
psPDmod+ [W/m²]	160
E _{max} [V/m]	299
Power Drift [dB]	0.01



System Check_Head_5250MHz

DUT: D5GHzV2-SN:1341

Communication System: UID 0, CW (0); Frequency: 5250 MHz; Duty Cycle: 1:1

Medium: HSL_5250 Medium parameters used: $f = 5250$ MHz; $\sigma = 4.57$ S/m; $\epsilon_r = 36.554$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °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)

Pin=100mW/Area Scan (71x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 19.8 W/kg

Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 66.58 V/m; Power Drift = -0.06 dB

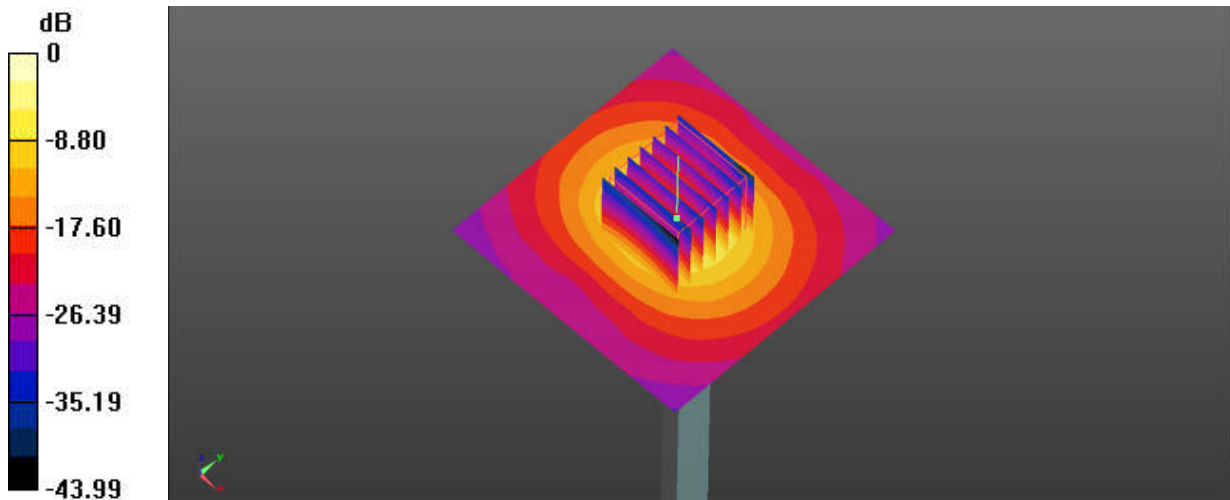
Peak SAR (extrapolated) = 35.6 W/kg

SAR(1 g) = 8.1 W/kg; SAR(10 g) = 2.23 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 62.6%

Maximum value of SAR (measured) = 20.0 W/kg



0 dB = 20.0 W/kg = 13.01 dBW/kg