

Test Laboratory: Sporton International Inc.

Device Under Test Properties

Manufacturer	Dimensions [mm]	IMEI	DUT Type
	100.0 x 100.0 x 100.0		Validation Source

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor
5G	FRONT, 5.55	30000.0	1.0

Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave – xxxx	Air –	EUmmWV4 – SN9461_F1–78GHz, 2019–11–05	DAE4 Sn376, 2019–12–06

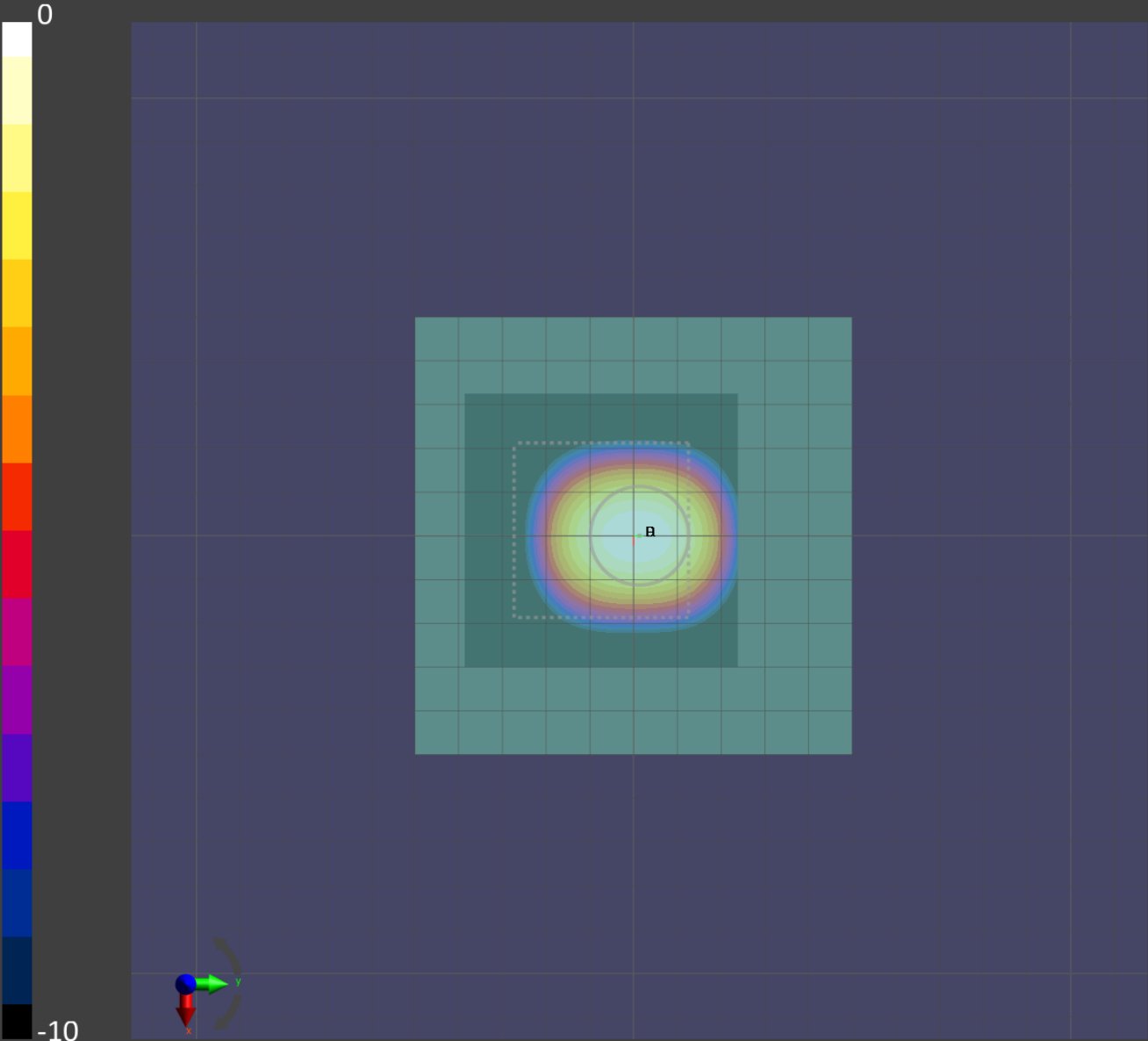
Scans Setup

Grid Extents [mm]	60.0 x 60.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	5.55

Measurement Results

Date	2020–02–15, 01:07
Avg. Area [cm ²]	4.00
S _{avg inc} [W/m ²]	30.3
S _{avg tot} [W/m ²]	30.8
S _{peak} [W/m ²]	43.7
E _{peak} [V/m]	128
H _{peak} [A/m]	0.345
Power Drift [dB]	–0.04

Averaged [4.0 cm²] |Re{S}|(x,y,z,f0) [dB(30.8W/m²)]



System Check_Head_835MHz

Communication System: CW; Frequency: 835.0

Medium: HSL. Medium parameters used: $f = 835.0$ MHz; $\sigma = 0.89$ S/m; $\epsilon_r = 42.4$

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

DASY6 Configuration:

- Probe: EX3DV4 - SN3931; ConvF(9.8, 9.8, 9.8); Calibrated: 2019-09-26
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn376; Calibrated: 2019-12-06
- Phantom: Twin-SAM V4.0 (30deg probe tilt); Serial: 1446; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926
- UID: CW, 0--
- MAIA: Area Scan: N/A; Zoom Scan: N/A

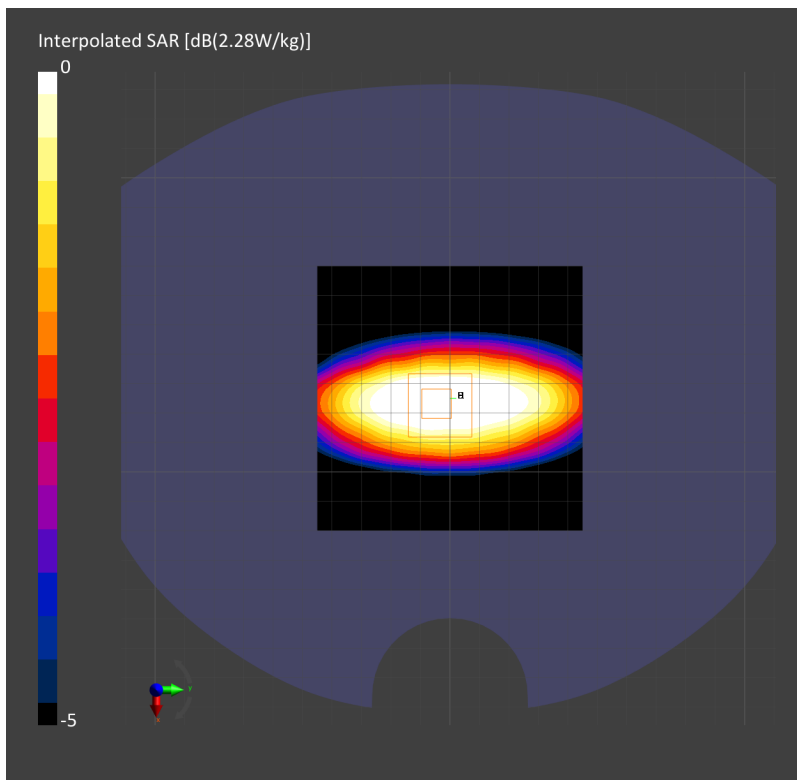
Area Scan (90.0 mm x 90.0 mm): Measurement Grid: 15.0 mm x 15.0 mm

SAR (1g) = 2.34 W/kg; SAR (10g) = 1.54 W/kg;

Zoom Scan (32.0 mm x 32.0 mm x 30.0 mm): Measurement Grid: 8.0 mm x 8.0 mm x 5.0 mm

Power Drift = 0.04 dB

SAR (1g) = 2.28 W/kg; SAR (10g) = 1.49 W/kg;



System Check_Head_1750MHz

Communication System: CW; Frequency: 1750.0

Medium: HSL. Medium parameters used: $f = 1750.0$ MHz; $\sigma = 1.36$ S/m; $\epsilon_r = 39.7$

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

DASY6 Configuration:

- Probe: EX3DV4 - SN3931; ConvF(8.66, 8.66, 8.66); Calibrated: 2019-09-26
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn376; Calibrated: 2019-12-06
- Phantom: Twin-SAM V4.0 (30deg probe tilt); Serial: 1446; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926
- UID: CW, 0--
- MAIA: Area Scan: N/A; Zoom Scan: N/A

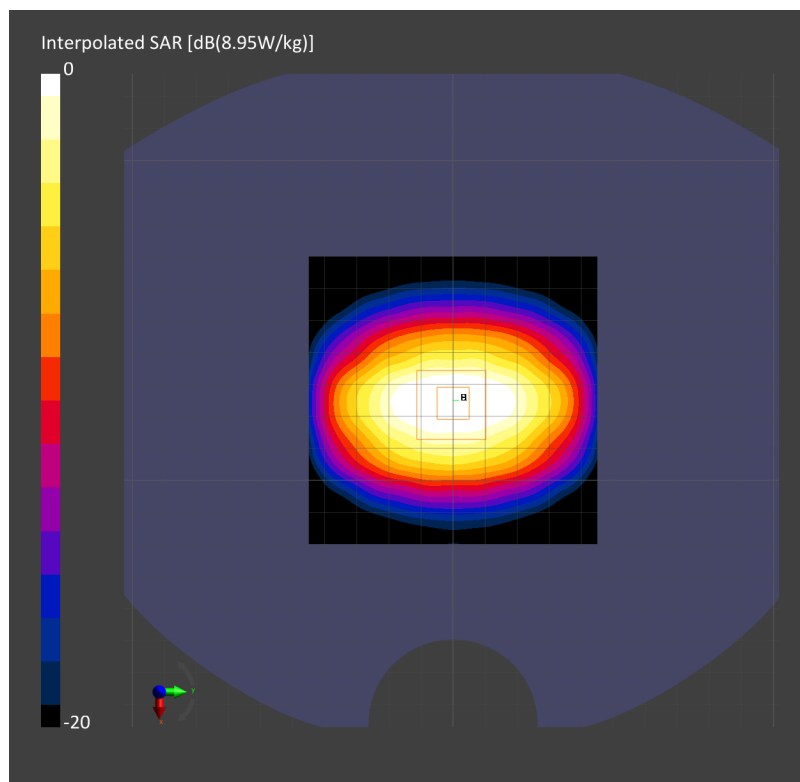
Area Scan (90.0 mm x 90.0 mm): Measurement Grid: 15.0 mm x 15.0 mm

SAR (1g) = 9.11 W/kg; SAR (10g) = 4.92 W/kg;

Zoom Scan (32.0 mm x 32.0 mm x 30.0 mm): Measurement Grid: 8.0 mm x 8.0 mm x 5.0 mm

Power Drift = 0.01 dB

SAR (1g) = 8.95 W/kg; SAR (10g) = 4.80 W/kg;



System Check_Head_1900MHz

Communication System: CW; Frequency: 1900.0

Medium: HSL. Medium parameters used: $f = 1900.0$ MHz; $\sigma = 1.40$ S/m; $\epsilon_r = 40.6$

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

DASY6 Configuration:

- Probe: EX3DV4 - SN3931; ConvF(8.32, 8.32, 8.32); Calibrated: 2019-09-26
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn376; Calibrated: 2019-12-06
- Phantom: Twin-SAM V4.0 (30deg probe tilt); Serial: 1446; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926
- UID: CW, 0--
- MAIA: Area Scan: N/A; Zoom Scan: N/A

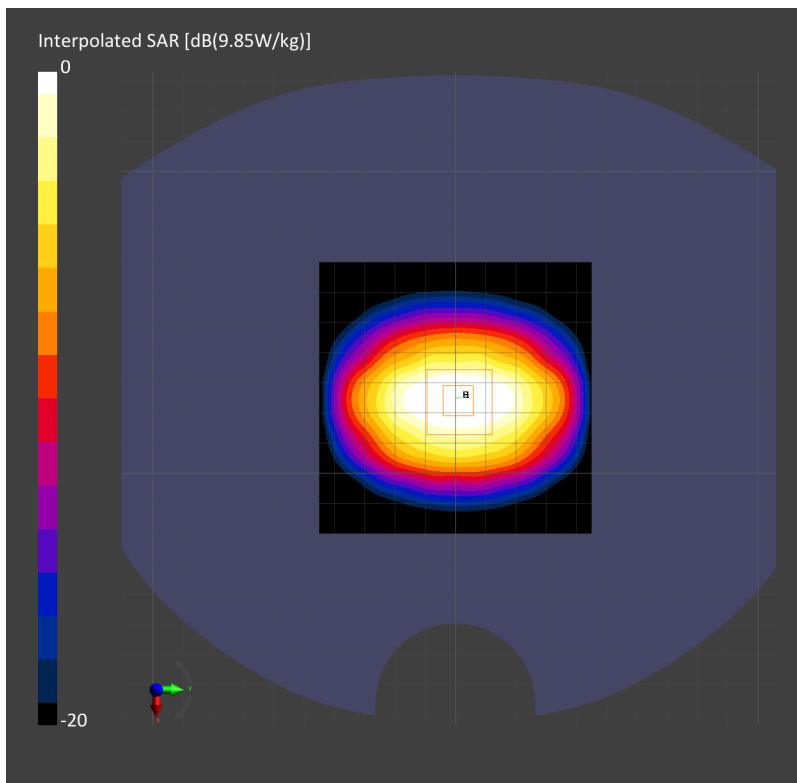
Area Scan (90.0 mm x 90.0 mm): Measurement Grid: 15.0 mm x 15.0 mm

SAR (1g) = 10.0 W/kg; SAR (10g) = 5.25 W/kg;

Zoom Scan (32.0 mm x 32.0 mm x 30.0 mm): Measurement Grid: 8.0 mm x 8.0 mm x 5.0 mm

Power Drift = 0.00 dB

SAR (1g) = 9.85 W/kg; SAR (10g) = 5.09 W/kg;



System Check_Head_2300MHz

Communication System: CW; Frequency: 2300.0

Medium: HSL. Medium parameters used: $f = 2300.0$ MHz; $\sigma = 1.65$ S/m; $\epsilon_r = 40.9$

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

DASY6 Configuration:

- Probe: EX3DV4 - SN3931; ConvF(7.83, 7.83, 7.83); Calibrated: 2019-09-26
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn376; Calibrated: 2019-12-06
- Phantom: Twin-SAM V4.0 (30deg probe tilt); Serial: 1446; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926
- UID: CW, 0--
- MAIA: Area Scan: N/A; Zoom Scan: N/A

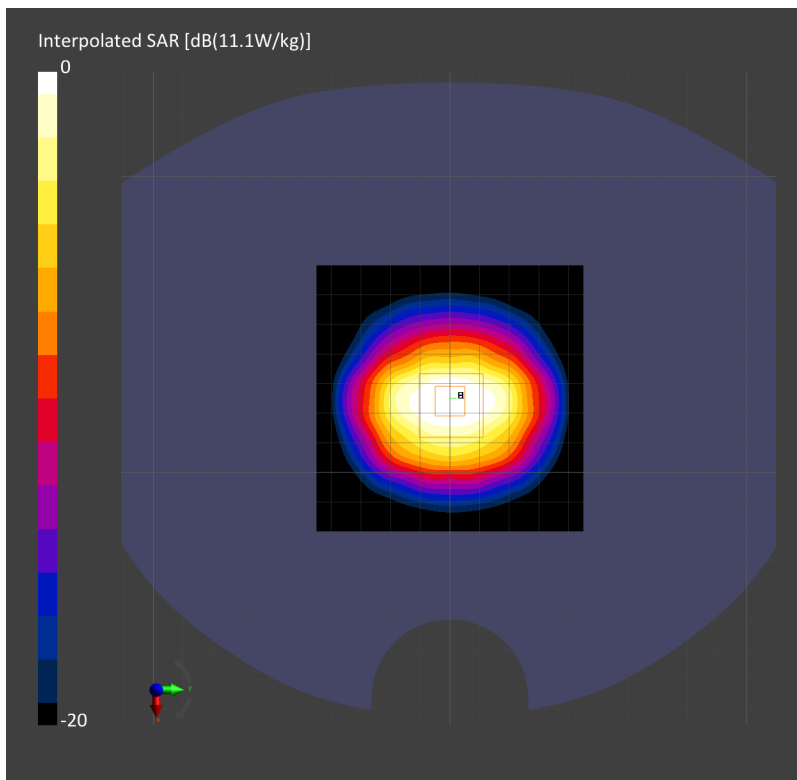
Area Scan (90.0 mm x 90.0 mm): Measurement Grid: 15.0 mm x 15.0 mm

SAR (1g) = 10.8 W/kg; SAR (10g) = 5.18 W/kg;

Zoom Scan (30.0 mm x 30.0 mm x 30.0 mm): Measurement Grid: 5.0 mm x 5.0 mm x 5.0 mm

Power Drift = 0.00 dB

SAR (1g) = 11.1 W/kg; SAR (10g) = 5.35 W/kg;



System Check_Head_2600MHz

Communication System: CW; Frequency: 2600.0

Medium: HSL. Medium parameters used: $f = 2600.0$ MHz; $\sigma = 1.98$ S/m; $\epsilon_r = 39.8$

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

DASY6 Configuration:

- Probe: EX3DV4 - SN3931; ConvF(7.43, 7.43, 7.43); Calibrated: 2019-09-26
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn376; Calibrated: 2019-12-06
- Phantom: Twin-SAM V4.0 (30deg probe tilt); Serial: 1446; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926
- UID: CW, 0--
- MAIA: Area Scan: N/A; Zoom Scan: N/A

Area Scan (90.0 mm x 90.0 mm): Measurement Grid: 15.0 mm x 15.0 mm

SAR (1g) = 13.7 W/kg; SAR (10g) = 6.10 W/kg;

Zoom Scan (30.0 mm x 30.0 mm x 30.0 mm): Measurement Grid: 5.0 mm x 5.0 mm x 5.0 mm

Power Drift = 0.02 dB

SAR (1g) = 13.8 W/kg; SAR (10g) = 6.33 W/kg;

