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## Appendix B. Highest Measurement Data

Test Laboratory: DEKRA

Date: 2023-09-11

**44\_WLAN2.4GHz\_802.11b-1M\_CH6\_Bottom\_0mm\_ANT Aux\_PULSE**

Communication System: UID 10415-AAA, WLAN; Frequency: 2437.000 MHz

Medium parameters used:  $f = 2437.000$  MHz; Conductivity = 1.82 S/m; Permittivity = 40.4

Phantom section: Flat

DASY Configuration:

- Probe: EX3DV4 - SN7784; ConvF(6.59, 6.82, 6.72); Calibrated: 2023-02-01
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1791; Calibrated: 2023-02-01
- Phantom: ELI V8.0 (20deg probe tilt)
- Measurement SW: V16.2.4.2524

**Area Scan (100.0 mm x 160.0 mm ):** Measurement grid: 10.0 mm x 10.0 mm

SAR(1 g) = 0.226 W/kg; SAR(10 g) = 0.104 W/kg

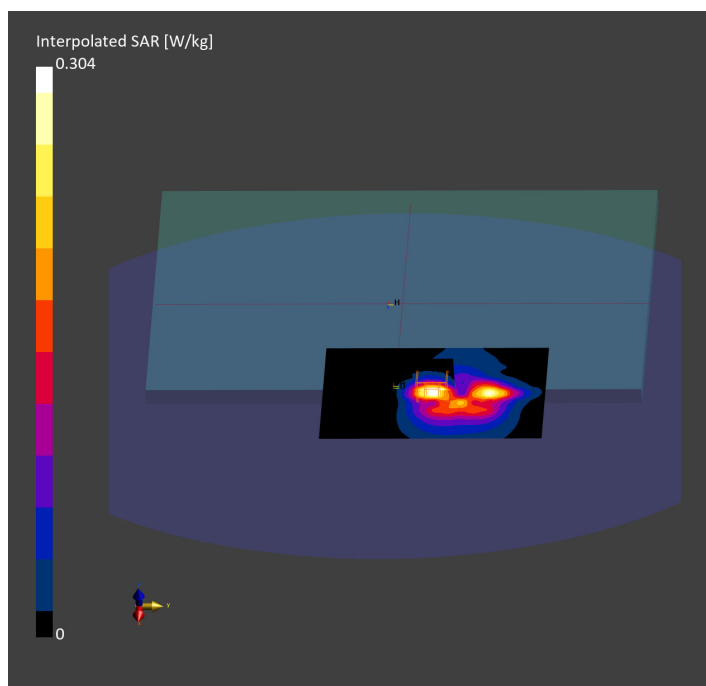
**Zoom Scan (30.0 mm x 30.0 mm x 30.0 mm ):** Measurement grid: 5.0 mm x 5.0 mm x 1.5 mm

Power Drift = 0.08 dB

SAR(1 g) = 0.249 W/kg; SAR(10 g) = 0.101 W/kg

Smallest distance from peaks to all points 3 dB below = 7.0

Ratio of SAR at M2 to SAR at M1 = 77.7



Test Laboratory: DEKRA

Date: 2023-09-11

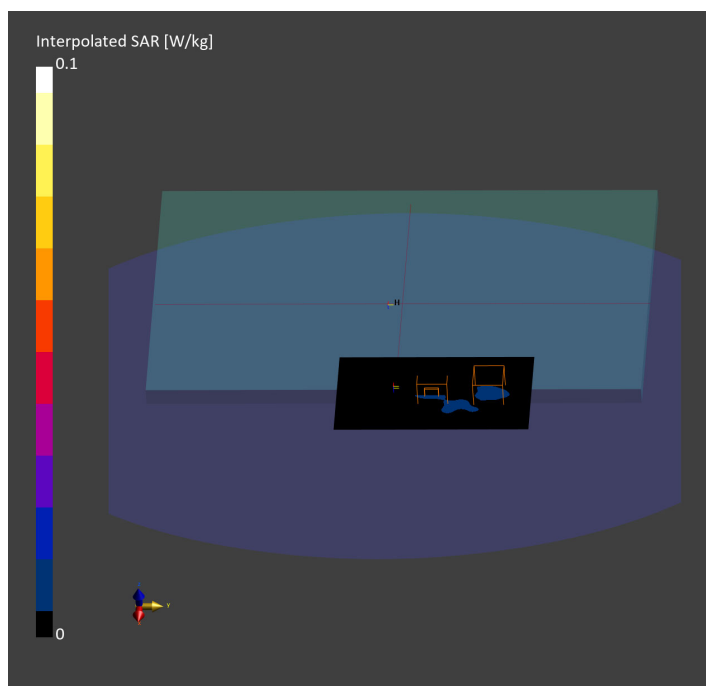
#### 45\_Bluetooth\_BT-1M\_CH39\_Bottom\_0mm\_ANT Aux\_PULSE

Communication System: UID 10032-CAA, Bluetooth; Frequency: 2441.000 MHz  
Medium parameters used:  $f = 2441.000$  MHz; Conductivity = 1.82 S/m; Permittivity = 40.4  
Phantom section: Flat  
DASY Configuration:

- Probe: EX3DV4 - SN7784; ConvF(6.59, 6.82, 6.72); Calibrated: 2023-02-01
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1791; Calibrated: 2023-02-01
- Phantom: ELI V8.0 (20deg probe tilt)
- Measurement SW: V16.2.4.2524

**Area Scan (80.0 mm x 140.0 mm ):** Measurement grid: 10.0 mm x 10.0 mm  
SAR(1 g) = 0.012 W/kg; SAR(10 g) = 0.005 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 1.5 mm  
Power Drift = 0.02 dB  
SAR(1 g) = 0.014 W/kg; SAR(10 g) = 0.005 W/kg  
Smallest distance from peaks to all points 3 dB below = 4.2  
Ratio of SAR at M2 to SAR at M1 = 82.8



Test Laboratory: DEKRA

Date: 2023-09-12

**59\_WLAN5GHz\_802.11n40-HT0\_CH54\_Bottom\_0mm\_ANT Aux\_PULSE**

Communication System: UID 10117-CAE, WLAN; Frequency: 5270.000 MHz

Medium parameters used:  $f = 5270.000$  MHz; Conductivity = 4.65 S/m; Permittivity = 36.5

Phantom section: Flat

DASY Configuration:

- Probe: EX3DV4 - SN7784; ConvF(5.22, 5.31, 5.26); Calibrated: 2023-02-01
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1791; Calibrated: 2023-02-01
- Phantom: ELI V8.0 (20deg probe tilt)
- Measurement SW: V16.2.4.2524

**Area Scan (100.0 mm x 160.0 mm ):** Measurement grid: 10.0 mm x 10.0 mm

SAR(1 g) = 0.509 W/kg; SAR(10 g) = 0.207 W/kg

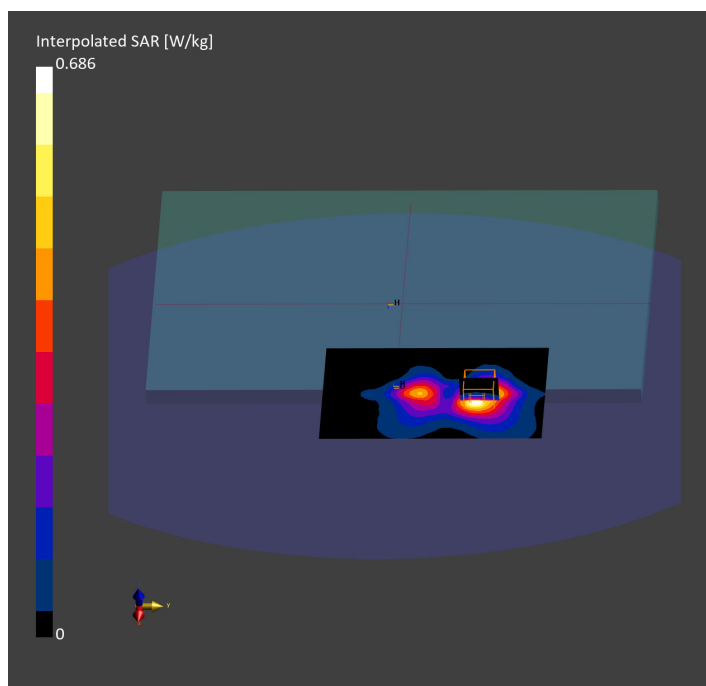
**Zoom Scan (22.0 mm x 22.0 mm x 22.0 mm ):** Measurement grid: 4.0 mm x 4.0 mm x 1.4 mm

Power Drift = -0.04 dB

SAR(1 g) = 0.553 W/kg; SAR(10 g) = 0.217 W/kg

Smallest distance from peaks to all points 3 dB below = 8.7

Ratio of SAR at M2 to SAR at M1 = 64.4



Test Laboratory: DEKRA

Date: 2023-09-12

**19\_WLAN5GHz\_802.11ac80-VHT0\_CH138\_Bottom\_0mm\_ANT Aux\_INPAQ**

Communication System: UID 10544-AAD, WLAN; Frequency: 5690.0 MHz

Medium parameters used:  $f = 5690.0$  MHz; Conductivity = 5.21 S/m; Permittivity = 35.4

Phantom section: Flat

DASY Configuration:

- Probe: EX3DV4 - SN7784; ConvF(4.31, 4.62, 4.51); Calibrated: 2023-02-01
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1791; Calibrated: 2023-02-01
- Phantom: ELI V8.0 (20deg probe tilt)
- Measurement SW: V16.2.4.2524

**Area Scan (80.0 mm x 140.0 mm ):** Measurement grid: 10.0 mm x 10.0 mm

SAR(1 g) = 0.666 W/kg; SAR(10 g) = 0.258 W/kg

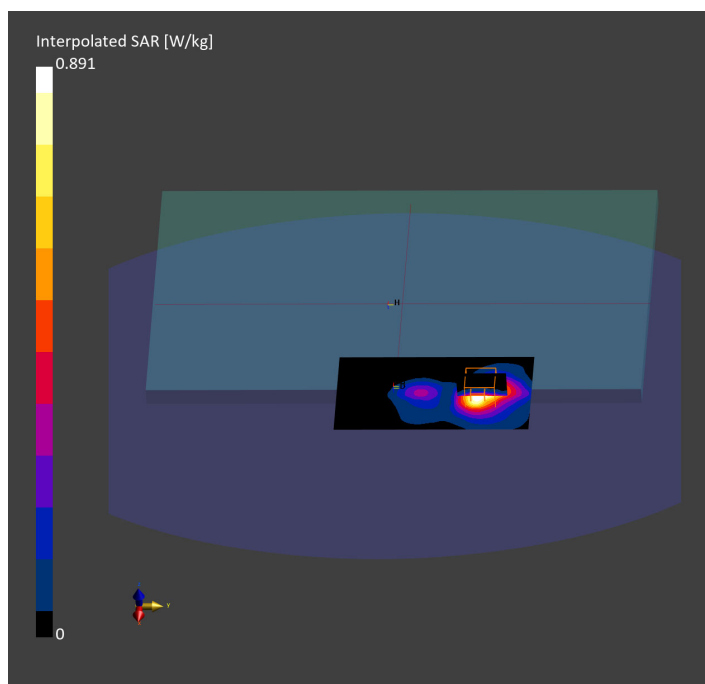
**Zoom Scan (22.0 mm x 22.0 mm x 22.0 mm ):** Measurement grid: 4.0 mm x 4.0 mm x 1.4 mm

Power Drift = 0.02 dB

SAR(1 g) = 0.696 W/kg; SAR(10 g) = 0.263 W/kg

Smallest distance from peaks to all points 3 dB below = 8.2

Ratio of SAR at M2 to SAR at M1 = 63.7



Test Laboratory: DEKRA

Date: 2023-09-12

**23\_WLAN5GHz\_802.11ac80-VHT0\_CH171\_Bottom\_0mm\_ANT Aux\_INPAQ**

Communication System: UID 10544-AAD, WLAN; Frequency: 5855.000 MHz

Medium parameters used:  $f = 5855.000$  MHz; Conductivity = 5.43 S/m; Permittivity = 34.9

Phantom section: Flat

DASY Configuration:

- Probe: EX3DV4 - SN7784; ConvF(4.45, 4.57, 4.5); Calibrated: 2023-02-01
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1791; Calibrated: 2023-02-01
- Phantom: ELI V8.0 (20deg probe tilt)
- Measurement SW: V16.2.4.2524

**Area Scan (80.0 mm x 140.0 mm ):** Measurement grid: 10.0 mm x 10.0 mm

SAR(1 g) = 0.571 W/kg; SAR(10 g) = 0.220 W/kg

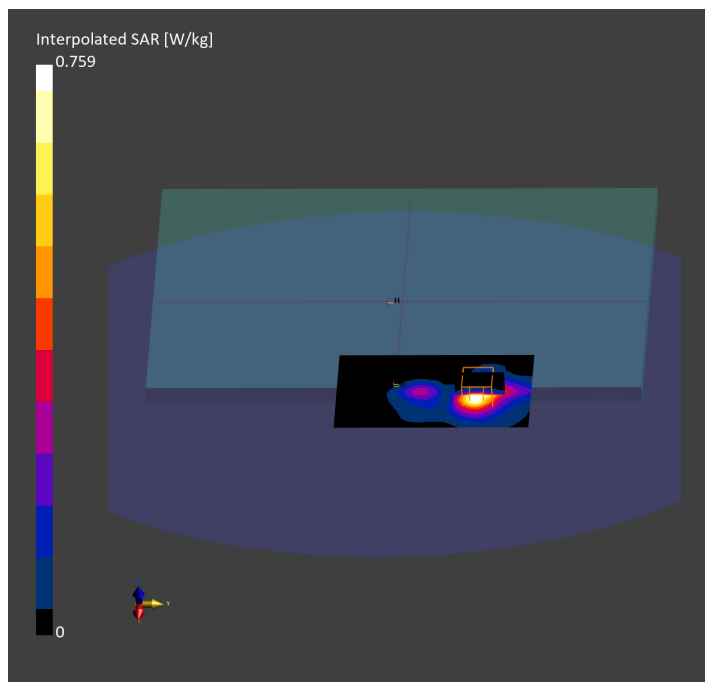
**Zoom Scan (22.0 mm x 22.0 mm x 22.0 mm ):** Measurement grid: 4.0 mm x 4.0 mm x 1.4 mm

Power Drift = -0.03 dB

SAR(1 g) = 0.614 W/kg; SAR(10 g) = 0.228 W/kg

Smallest distance from peaks to all points 3 dB below = 9.2

Ratio of SAR at M2 to SAR at M1 = 61.8



Test Laboratory: DEKRA

Date: 2023-09-06

**35\_WLAN6GHz\_802.11ax160-HE0\_CH175\_Bottom\_0mm\_ANT Main\_INPAQ**

Communication System: UID 10755-AAC, WLAN; Frequency: 6825.000 MHz

Medium parameters used:  $f = 6825.000$  MHz; Conductivity = 6.22 S/m; Permittivity = 34.5

Phantom section: Flat

DASY Configuration:

- Probe: EX3DV4 - SN7784; ConvF(4.63, 4.59, 4.78); Calibrated: 2023-02-01
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1791; Calibrated: 2023-02-01
- Phantom: ELI V8.0 (20deg probe tilt)
- Measurement SW: V16.2.4.2524

**Area Scan (85.0 mm x 153.0 mm ):** Measurement grid: 8.5 mm x 8.5 mm

SAR(1 g) = 0.106 W/kg; SAR(10 g) = 0.031 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

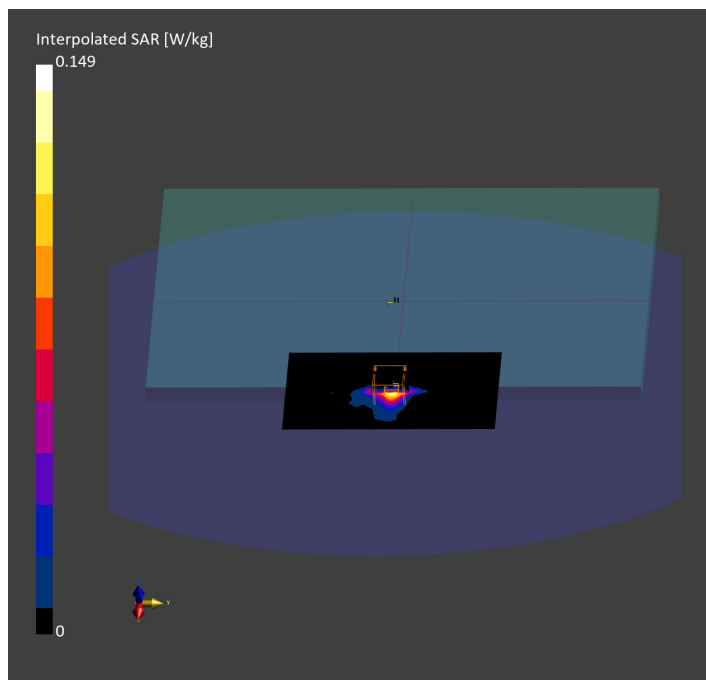
Power Drift = -0.06 dB

SAR(1 g) = 0.111 W/kg; SAR(10 g) = 0.032 W/kg

psAPD (4.0cm<sup>2</sup>, sq) = 0.745 W/m<sup>2</sup>

Smallest distance from peaks to all points 3 dB below = 7.1

Ratio of SAR at M2 to SAR at M1 = 53.5



Test Laboratory: DEKRA

Date: 2023-09-06

**37\_WLAN6GHz\_802.11ax160-HE0\_CH15\_Bottom\_0mm\_ANT Aux\_INPAQ**

Communication System: UID 10755-AAC, WLAN; Frequency: 6025.000 MHz

Medium parameters used:  $f = 6025.000$  MHz; Conductivity = 5.34 S/m; Permittivity = 35.2

Phantom section: Flat

DASY Configuration:

- Probe: EX3DV4 - SN7784; ConvF(4.63, 4.59, 4.78); Calibrated: 2023-02-01
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1791; Calibrated: 2023-02-01
- Phantom: ELI V8.0 (20deg probe tilt)
- Measurement SW: V16.2.4.2524

**Area Scan (85.0 mm x 153.0 mm ):** Measurement grid: 8.5 mm x 8.5 mm

SAR(1 g) = 0.088 W/kg; SAR(10 g) = 0.031 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

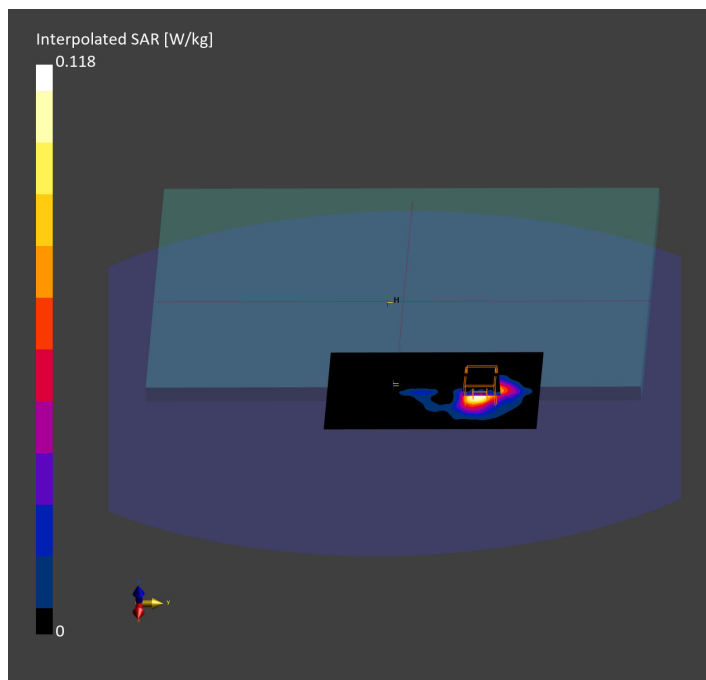
Power Drift = -0.09 dB

SAR(1 g) = 0.10 W/kg; SAR(10 g) = 0.035 W/kg

psAPD (4.0cm<sup>2</sup>, sq) = 0.783 W/m<sup>2</sup>

Smallest distance from peaks to all points 3 dB below = 8.6

Ratio of SAR at M2 to SAR at M1 = 58.9





Test Laboratory: DEKRA

Date: 2023-09-06

**70\_WLAN6GHz\_802.11ax160-HE0\_CH111\_Bottom\_0mm\_ANT Aux\_PULSE**

Communication System: UID 10755-AAC, WLAN; Frequency: 6505.000 MHz

Medium parameters used:  $f = 6505.000$  MHz; Conductivity = 5.87 S/m; Permittivity = 34.8

Phantom section: Flat

DASY8 Configuration:

- Probe: EX3DV4 - SN7784; ConvF(4.63, 4.59, 4.78); Calibrated: 2023-02-01
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1791; Calibrated: 2023-02-01
- Phantom: ELI V8.0 (20deg probe tilt)
- Measurement SW: 16.2.4.2524

**Area Scan (102.0 mm x 153.0 mm ):** Measurement grid: 8.5 mm x 8.5 mm

SAR(1 g) = 0.089 W/kg; SAR(10 g) = 0.030 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

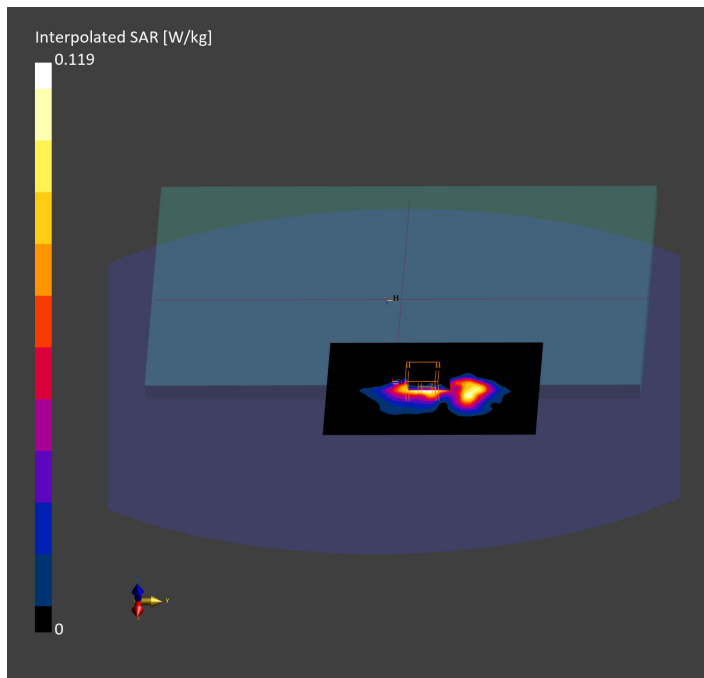
Power Drift = -0.11 dB

SAR(1 g) = 0.096 W/kg; SAR(10 g) = 0.033 W/kg

psAPD (4.0cm<sup>2</sup>, sq) = 0.751 W/m<sup>2</sup>

Smallest distance from peaks to all points 3 dB below = 7.1

Ratio of SAR at M2 to SAR at M1 = 56.6



Test Laboratory: DEKRA

Date: 2023-09-06

**82\_WLAN6GHz\_802.11ax160-HE0\_CH207\_Bottom\_0mm\_ANT Aux\_PULSE**

Communication System: UID 10755-AAC, WLAN; Frequency: 6985.000 MHz

Medium parameters used:  $f = 6985.000$  MHz; Conductivity = 6.39 S/m; Permittivity = 34.3

Phantom section: Flat

DASY Configuration:

- Probe: EX3DV4 - SN7784; ConvF(4.63, 4.59, 4.78); Calibrated: 2023-02-01
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1791; Calibrated: 2023-02-01
- Phantom: ELI V8.0 (20deg probe tilt)
- Measurement SW: V16.2.4.2524

**Area Scan (85.0 mm x 153.0 mm ):** Measurement grid: 8.5 mm x 8.5 mm

SAR(1 g) = 0.136 W/kg; SAR(10 g) = 0.042 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

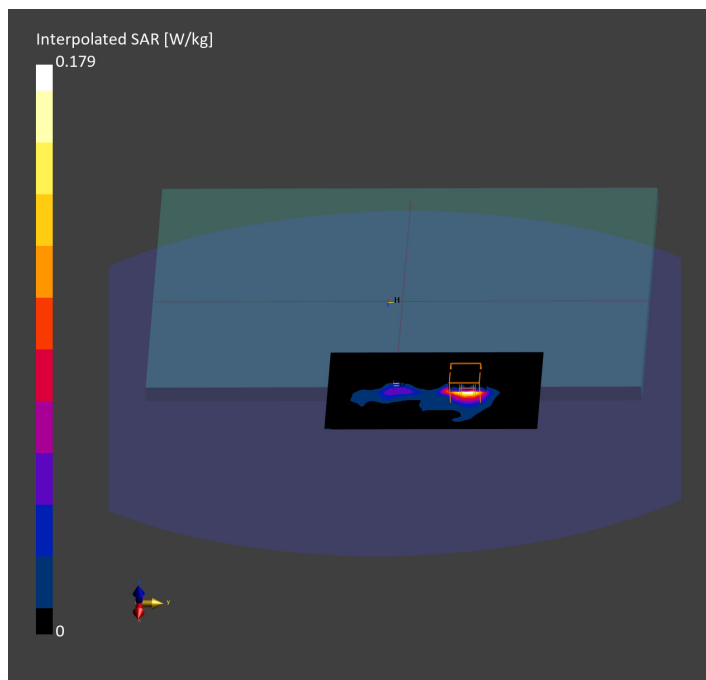
Power Drift = -0.07 dB

SAR(1 g) = 0.133 W/kg; SAR(10 g) = 0.041 W/kg

psAPD (4.0cm<sup>2</sup>, sq) = 0.951 W/m<sup>2</sup>

Smallest distance from peaks to all points 3 dB below = 6.5

Ratio of SAR at M2 to SAR at M1 = 51.7



**6\_WLAN6GHz\_802.11ax160-HE0\_CH15\_Bottom\_0mm\_ANT Aux\_INPAQ**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
15Z90S	356.0 x 220.0 x 13.0		Laptop

**Exposure Conditions**

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G Air	Bottom, 2.00	U-NII-5	WLAN, 10755-AAC	6025.0, 15	1.0

**Hardware Setup**

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 1068	Air---	EUmmWV4 - SN9546_F1-55GHz, 2023-04-18	DAE4 Sn1651, 2023-02-22

**Scan Setup**

	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.05 x 0.05
Sensor Surface [mm]	2.0
MAIA	N/A

**Measurement Results**

	5G Scan
Date	2023-09-09
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	1.79
psPDtot+ [W/m <sup>2</sup> ]	1.85
psPDmod+ [W/m <sup>2</sup> ]	1.88
E <sub>max</sub> [V/m]	28.6
Power Drift [dB]	0.12

