
Appendix B. Highest Measurement Data

Test Laboratory: DEKRA

Date: 2024/01/11

1_WLAN2.4GHz_802.11b-1M_CH6_Bottom_0mm_ANT Main**DUT: Notebook PC; Type: S5406M**

Communication System: UID 0, WLAN 2.4G; Frequency: 2437 MHz

Communication System PAR: 0 dB

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.78$ S/m; $\epsilon_r = 39.31$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN7631; ConvF(7.85, 8.9, 7.36) @ 2437 MHz; Calibrated: 2023/02/22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1651; Calibrated: 2023/02/22
- Phantom: ELI V8.0; Type: QD OVA 004 AA; Serial: 2139
- Measurement SW: DASYS2, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Configuration/Flat/Area Scan (9x13x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.884 W/kg**Configuration/Flat/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.589 V/m; Power Drift = -0.11 dB

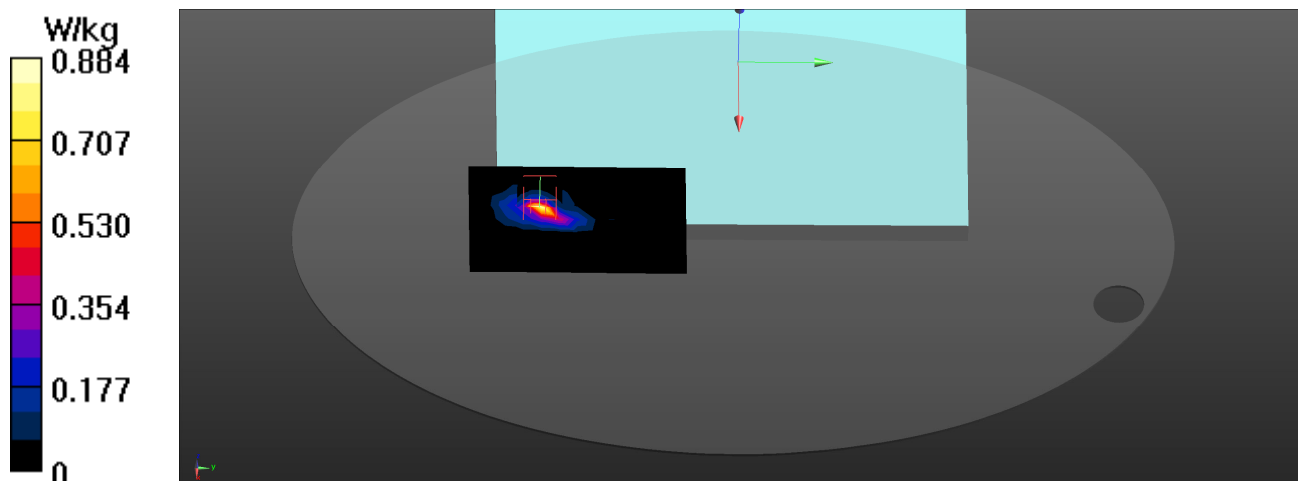
Peak SAR (extrapolated) = 1.42 W/kg

SAR(1 g) = 0.513 W/kg; SAR(10 g) = 0.188 W/kg

Smallest distance from peaks to all points 3 dB below = 6.1 mm

Ratio of SAR at M2 to SAR at M1 = 40.9%

Maximum value of SAR (measured) = 0.990 W/kg



Test Laboratory: DEKRA

Date: 2024/01/11

5_Bluetooth_BT-1M_CH39_Bottom_0mm_ANT Aux

DUT: Notebook PC; Type: S5406M

Communication System: UID 0, BT 1M&3M&BLE; Frequency: 2441 MHz

Communication System PAR: 0 dB

Medium parameters used: $f = 2441$ MHz; $\sigma = 1.78$ S/m; $\epsilon_r = 39.29$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN7631; ConvF(7.85, 8.9, 7.36) @ 2441 MHz; Calibrated: 2023/02/22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1651; Calibrated: 2023/02/22
- Phantom: ELI V8.0; Type: QD OVA 004 AA; Serial: 2139
- Measurement SW: DASYS2, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Configuration/Flat/Area Scan (8x11x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.101 W/kg**Configuration/Flat/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.9510 V/m; Power Drift = 0.14 dB

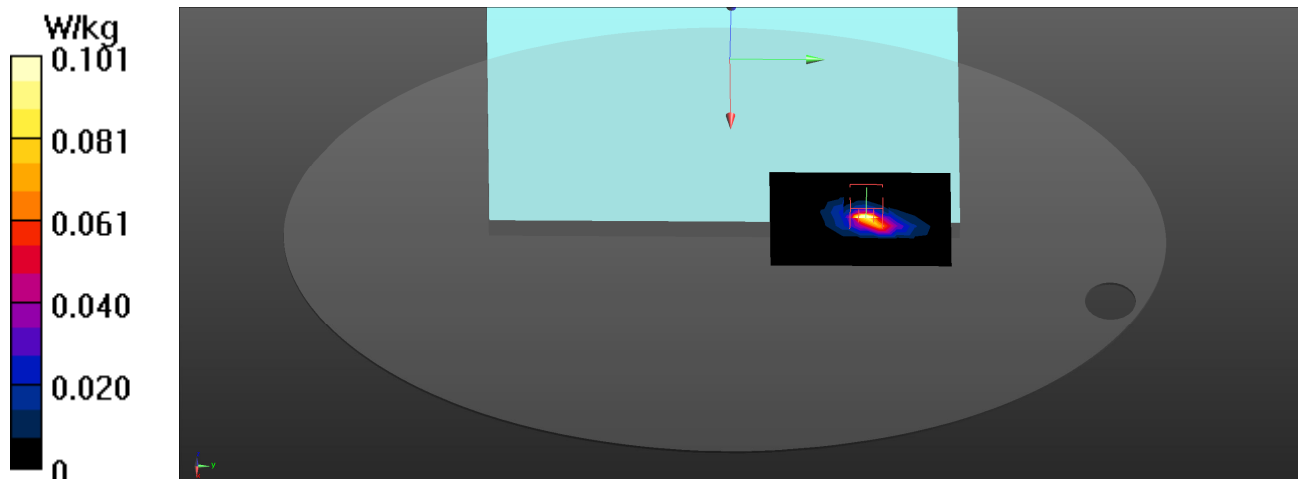
Peak SAR (extrapolated) = 0.207 W/kg

SAR(1 g) = 0.068 W/kg; SAR(10 g) = 0.024 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 45.6%

Maximum value of SAR (measured) = 0.148 W/kg



Test Laboratory: DEKRA

Date: 2024/01/12

10_WLAN5GHz_802.11ac80-VHT0_CH58_Bottom_0mm_ANT Aux**DUT: Notebook PC; Type: S5406M**

Communication System: UID 0, WLAN 5G; Frequency: 5290 MHz

Communication System PAR: 0 dB

Medium parameters used: $f = 5290$ MHz; $\sigma = 4.79$ S/m; $\epsilon_r = 36.46$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN7631; ConvF(5.67, 6.32, 5.35) @ 5290 MHz; Calibrated: 2023/02/22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1651; Calibrated: 2023/02/22
- Phantom: ELI V8.0; Type: QD OVA 004 AA; Serial: 2139
- Measurement SW: DASYS2, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Configuration/Flat/Area Scan (9x13x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 1.52 W/kg**Configuration/Flat/Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 0.8990 V/m; Power Drift = 0.19 dB

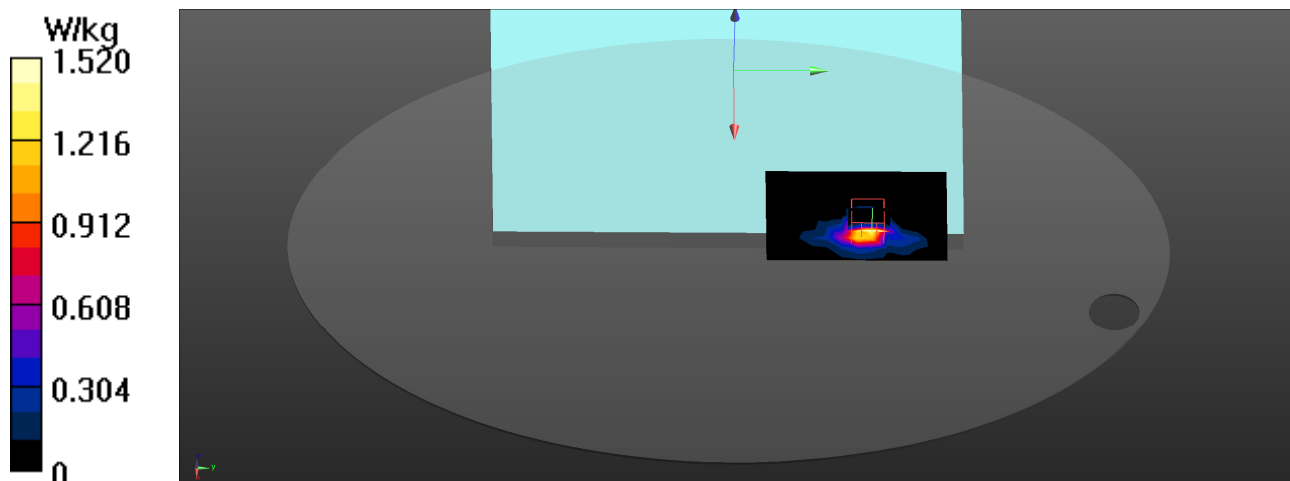
Peak SAR (extrapolated) = 3.77 W/kg

SAR(1 g) = 0.841 W/kg; SAR(10 g) = 0.266 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 60.4%

Maximum value of SAR (measured) = 2.11 W/kg



Test Laboratory: DEKRA

Date: 2024/01/12

19_WLAN5GHz_802.11ac80-VHT0_CH138_Bottom_0mm_ANT Aux**DUT: Notebook PC; Type: S5406M**

Communication System: UID 0, WLAN 5G; Frequency: 5690 MHz

Communication System PAR: 0 dB

Medium parameters used: $f = 5690$ MHz; $\sigma = 5.32$ S/m; $\epsilon_r = 35.36$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN7631; ConvF(4.85, 5.34, 4.58) @ 5690 MHz; Calibrated: 2023/02/22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1651; Calibrated: 2023/02/22
- Phantom: ELI V8.0; Type: QD OVA 004 AA; Serial: 2139
- Measurement SW: DASYS2, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Configuration/Flat/Area Scan (9x13x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 2.52 W/kg**Configuration/Flat/Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 1.043 V/m; Power Drift = 0.09 dB

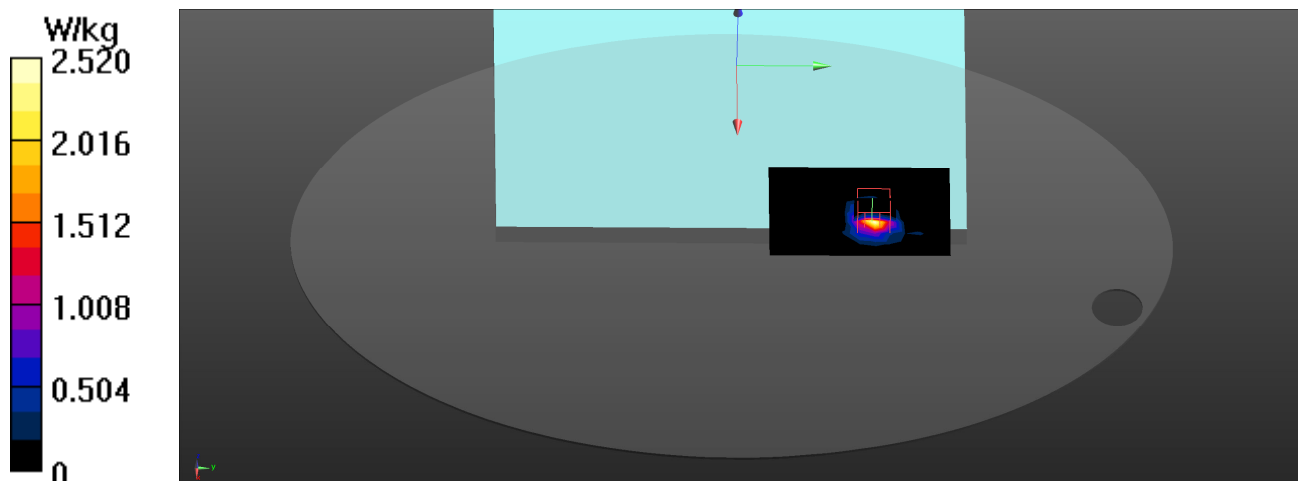
Peak SAR (extrapolated) = 4.74 W/kg

SAR(1 g) = 1.05 W/kg; SAR(10 g) = 0.317 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 61.7%

Maximum value of SAR (measured) = 2.66 W/kg



Test Laboratory: DEKRA

Date: 2024/01/12

12_WLAN5GHz_802.11ac80-VHT0_CH155_Bottom_0mm_ANT Aux**DUT: Notebook PC; Type: S5406M**

Communication System: UID 0, WLAN 5G; Frequency: 5775 MHz

Communication System PAR: 0 dB

Medium parameters used: $f = 5775$ MHz; $\sigma = 5.43$ S/m; $\epsilon_r = 35.12$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN7631; ConvF(4.84, 5.4, 4.63) @ 5775 MHz; Calibrated: 2023/02/22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1651; Calibrated: 2023/02/22
- Phantom: ELI V8.0; Type: QD OVA 004 AA; Serial: 2139
- Measurement SW: DASYS2, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Configuration/Flat/Area Scan (9x13x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 2.75 W/kg**Configuration/Flat/Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 0.4850 V/m; Power Drift = 0.18 dB

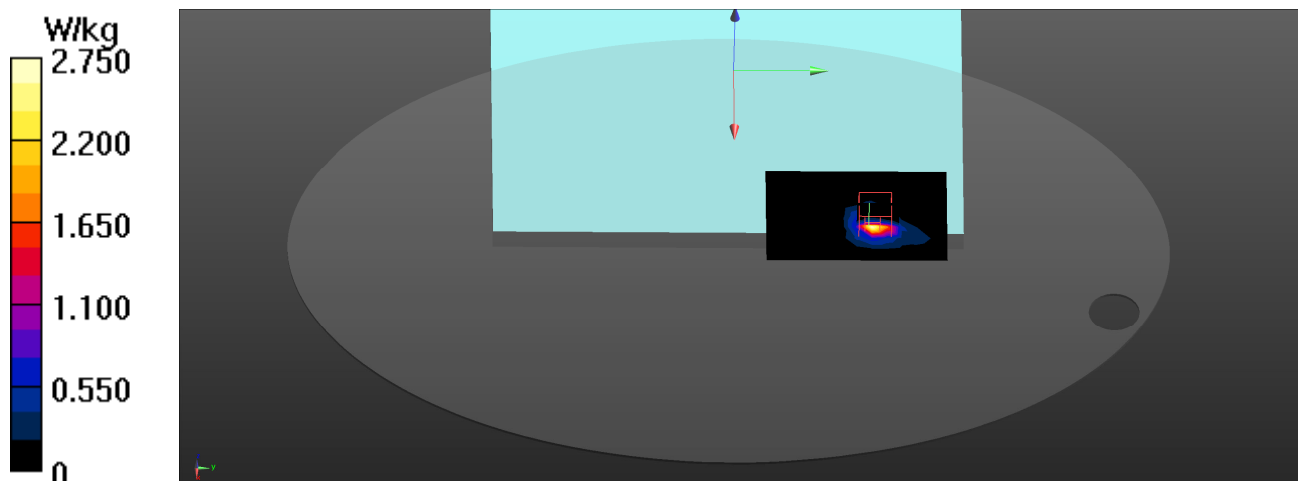
Peak SAR (extrapolated) = 4.92 W/kg

SAR(1 g) = 1.06 W/kg; SAR(10 g) = 0.318 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 59.7%

Maximum value of SAR (measured) = 2.70 W/kg



Test Laboratory: DEKRA

Date: 2024-01-15

29_WLAN6GHz_802.11ax160-HE0_CH175_Bottom_0mm_ANT Main

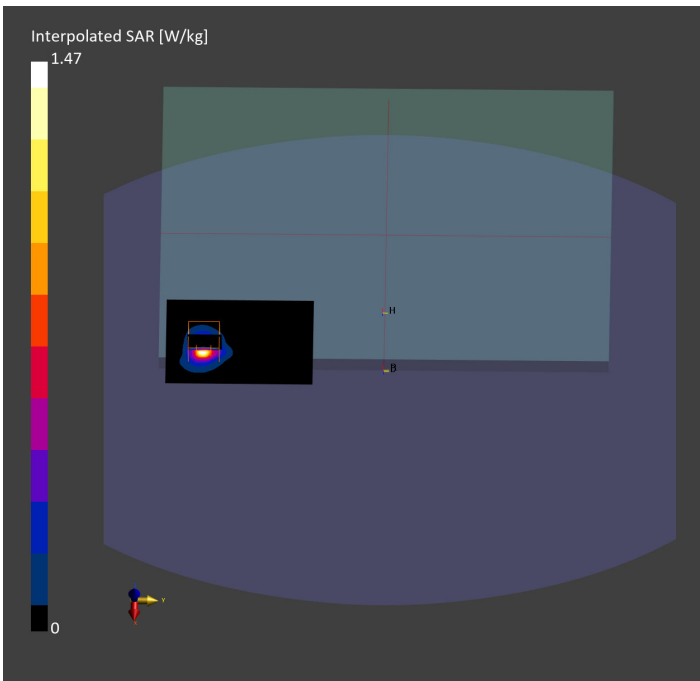
Communication System: UID 10755-AAC, WLAN; Frequency: 6825.000 MHz
Medium parameters used: $f = 6825.000$ MHz; Conductivity = 6.46 S/m; Permittivity = 33.60
Phantom section: Flat

DASY Configuration:

- Probe: EX3DV4 - SN7631; ConvF(5.18, 5.95, 5.0); Calibrated: 2023-02-22
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1651; Calibrated: 2023-02-22
- Phantom: ELI V8.0 (20deg probe tilt)
- Measurement SW: V16.2.4.2524

Area Scan (68.0 mm x 102.0 mm): Measurement grid: 8.5 mm x 8.5 mm
SAR (1 g) = 0.998 W/kg; SAR (10 g) = 0.272 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 = 0.02 dB
SAR(1 g) = 1.10 W/kg; SAR(10 g) = 0.287 W/kg
psAPD (4.0cm², sq) = 6.72 W/m²
Smallest distance from peaks to all points 3 dB below = 6.3
Ratio of SAR at M2 to SAR at M1 = 49.0



7_WLAN6GHz_802.11ax160-HE0_CH207_Bottom_0mm_ANT Aux

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
S5406M	312.0 x 220.0 x 15.0		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-8	WLAN, 10755-AAC	6985.0, 207	1.0

Hardware Setup

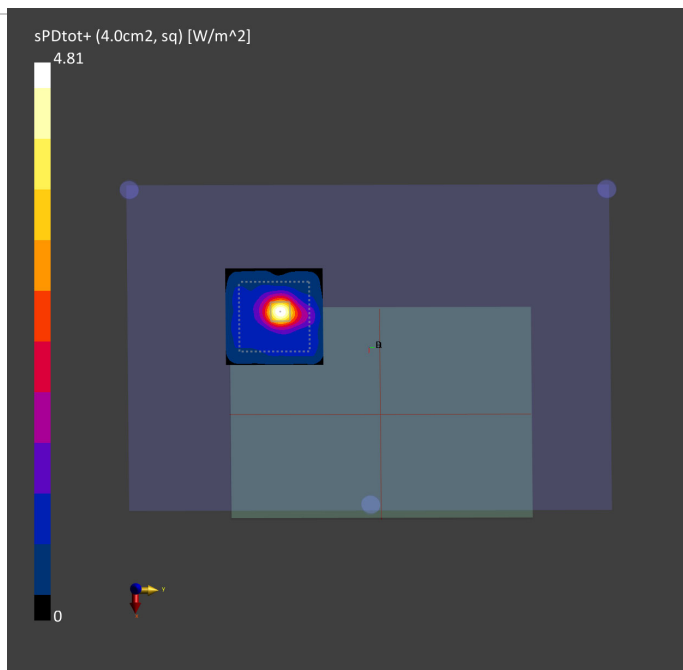
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 1068	Air---	EUmmWV4 - SN9546_F1-55GHz, 2023-04-18	DAE4 Sn1651, 2023-02-22

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	2024-01-08
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	4.42
psPDtot+ [W/m ²]	4.81
psPDmod+ [W/m ²]	5.17
E _{max} [V/m]	58.9
Power Drift [dB]	-0.11



SAR measurement variability

Test Laboratory: DEKRA

Date: 2024/01/12

53_WLAN5GHz_802.11ac80-VHT0_CH155_Bottom_0mm_ANT Aux_verify

DUT: Notebook PC; Type: S5406M

Communication System: UID 0, WLAN 5G; Frequency: 5775 MHz

Communication System PAR: 0 dB

Medium parameters used: $f = 5775$ MHz; $\sigma = 5.43$ S/m; $\epsilon_r = 35.12$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN7631; ConvF(4.84, 5.4, 4.63) @ 5775 MHz; Calibrated: 2023/02/22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1651; Calibrated: 2023/02/22
- Phantom: ELI V8.0; Type: QD OVA 004 AA; Serial: 2139
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Configuration/Flat/Area Scan (9x13x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 2.45 W/kg**Configuration/Flat/Zoom Scan (9x9x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 0.2230 V/m; Power Drift = 0.15 dB

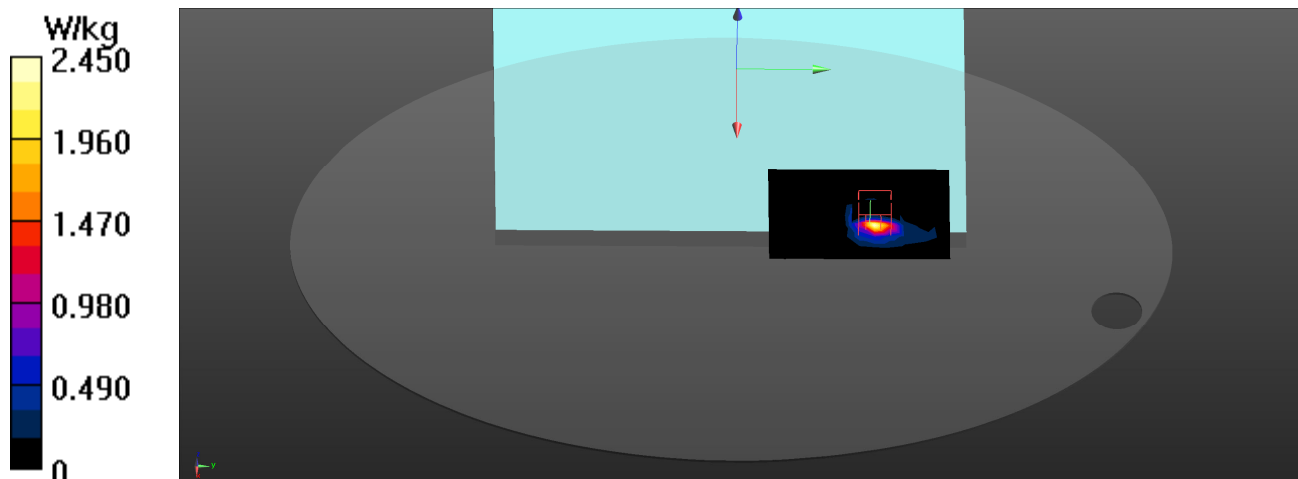
Peak SAR (extrapolated) = 4.38 W/kg

SAR(1 g) = 0.956 W/kg; SAR(10 g) = 0.290 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 59.9%

Maximum value of SAR (measured) = 2.44 W/kg



Test Laboratory: DEKRA

Date: 2024-01-15

47_WLAN6GHz_802.11ax160-HE0_CH175_Bottom_0mm_ANT Main_verify

Communication System: UID 10755-AAC, WLAN; Frequency: 6825.000 MHz
Medium parameters used: $f = 6825.000$ MHz; Conductivity = 6.46 S/m; Permittivity = 33.60
Phantom section: Flat
DASY Configuration:

- Probe: EX3DV4 - SN7631; ConvF(5.18, 5.95, 5.0); Calibrated: 2023-02-22
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1651; Calibrated: 2023-02-22
- Phantom: ELI V8.0 (20deg probe tilt)
- Measurement SW: V16.2.4.2524

Area Scan (68.0 mm x 102.0 mm): Measurement grid: 8.5 mm x 8.5 mm
SAR (1 g) = 0.937 W/kg; SAR (10 g) = 0.263 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) = 1.00 W/kg; SAR(10 g) = 0.270 W/kg
psAPD (4.0cm², sq) = 6.29 W/m²
Smallest distance from peaks to all points 3 dB below = 6.7
Ratio of SAR at M2 to SAR at M1 = 49.3

