
Appendix B. Highest Measurement Data

Test Laboratory: DEKRA

Date: 2023/10/14

3_WLAN2.4GHz_802.11g_CH9_Top_5mm_ANT Main**DUT: SimPad PLUS 2; Type: 204-00150**

Communication System: UID 0, WLAN 2.4G; Frequency: 2452 MHz

Communication System PAR: 0dB

Medium parameters used: $f = 2452$ MHz; $\sigma = 1.79$ S/m; $\epsilon_r = 39.95$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3979; ConvF(7.58, 7.58, 7.58) @ 2452 MHz; Calibrated: 2022/11/23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Configuration/Flat/Area Scan (6x10x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 1.42 W/kg

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

Reference Value = 28.79 V/m; Power Drift = 0.18 dB

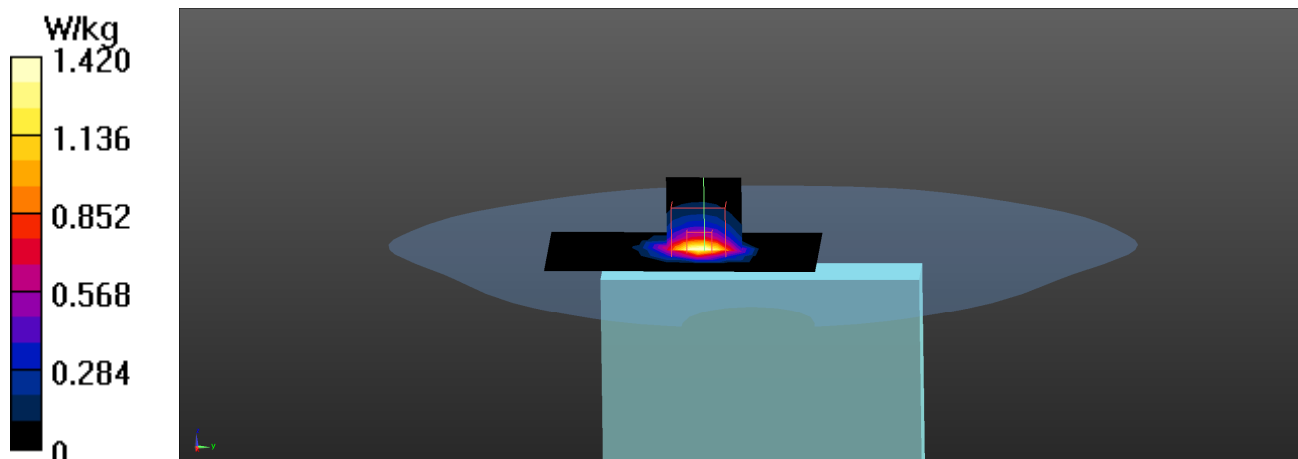
Peak SAR (extrapolated) = 1.96 W/kg

SAR(1 g) = 0.906 W/kg; SAR(10 g) = 0.395 W/kg

Smallest distance from peaks to all points 3 dB below = 8.9 mm

Ratio of SAR at M2 to SAR at M1 = 47.5%

Maximum value of SAR (measured) = 1.54 W/kg



Test Laboratory: DEKRA

Date: 2023/10/14

45_Bluetooth_BT-1M_CH39_Top_5mm_ANT Aux**DUT: SimPad PLUS 2; Type: 204-00150**

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

Communication System PAR: 0dB

Medium parameters used: $f = 2441$ MHz; $\sigma = 1.77$ S/m; $\epsilon_r = 39.99$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3979; ConvF(7.58, 7.58, 7.58) @ 2441 MHz; Calibrated: 2022/11/23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Configuration/Flat/Area Scan (6x10x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.00466 W/kg

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

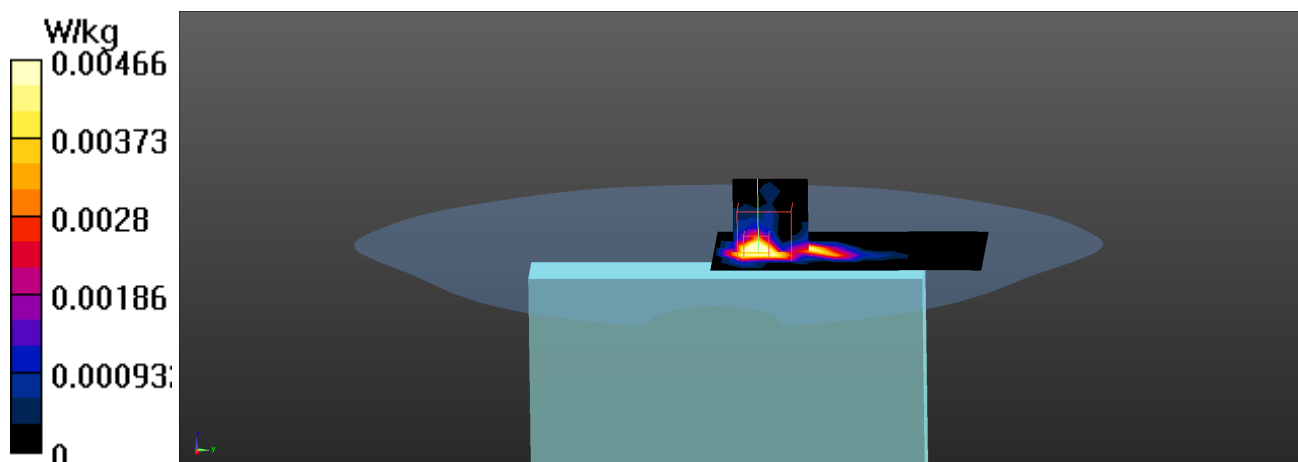
Reference Value = 1.831 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.0120 W/kg

SAR(1 g) = 0.00292 W/kg; SAR(10 g) = 0.00061 W/kgSmallest distance from peaks to all points 3 dB below: Larger than measurement grid (> 15 mm)

Ratio of SAR at M2 to SAR at M1 = 45%

Maximum value of SAR (measured) = 0.00776 W/kg



Test Laboratory: DEKRA

Date: 2023/10/18

8_WLAN5GHz_802.11n40-HT0_CH54_Top_5mm_ANT Main**DUT: SimPad PLUS 2; Type: 204-00150**

Communication System: UID 0, WLAN 5G; Frequency: 5270 MHz

Communication System PAR: 0dB

Medium parameters used: $f = 5270$ MHz; $\sigma = 4.64$ S/m; $\epsilon_r = 35.87$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.8, 4.8, 4.8) @ 5270 MHz; Calibrated: 2022/11/23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Configuration/Flat/Area Scan (8x12x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.74 W/kg

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

Reference Value = 7.020 V/m; Power Drift = 0.18 dB

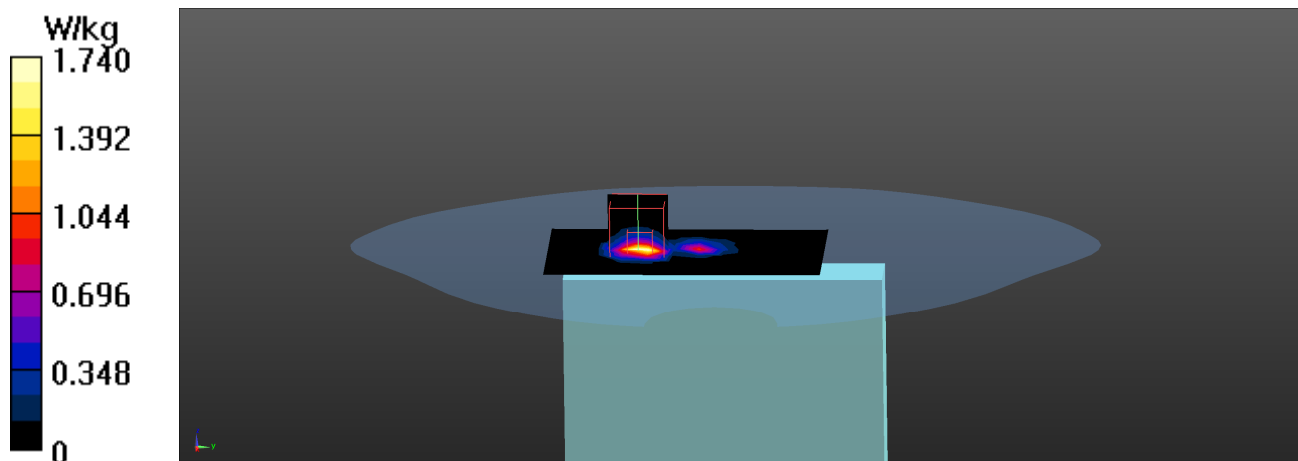
Peak SAR (extrapolated) = 3.15 W/kg

SAR(1 g) = 0.831 W/kg; SAR(10 g) = 0.237 W/kg

Smallest distance from peaks to all points 3 dB below = 6.8 mm

Ratio of SAR at M2 to SAR at M1 = 66.2%

Maximum value of SAR (measured) = 1.98 W/kg



Test Laboratory: DEKRA

Date: 2023/10/18

11_WLAN5GHz_802.11ac80-VHT0_CH138_Top_5mm_ANT Main**DUT: SimPad PLUS 2; Type: 204-00150**

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

Communication System PAR: 0dB

Medium parameters used: $f = 5690$ MHz; $\sigma = 5.2$ S/m; $\epsilon_r = 34.72$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.42, 4.42, 4.42) @ 5690 MHz; Calibrated: 2022/11/23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Configuration/Flat/Area Scan (8x12x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.85 W/kg

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

Reference Value = 5.452 V/m; Power Drift = 0.12 dB

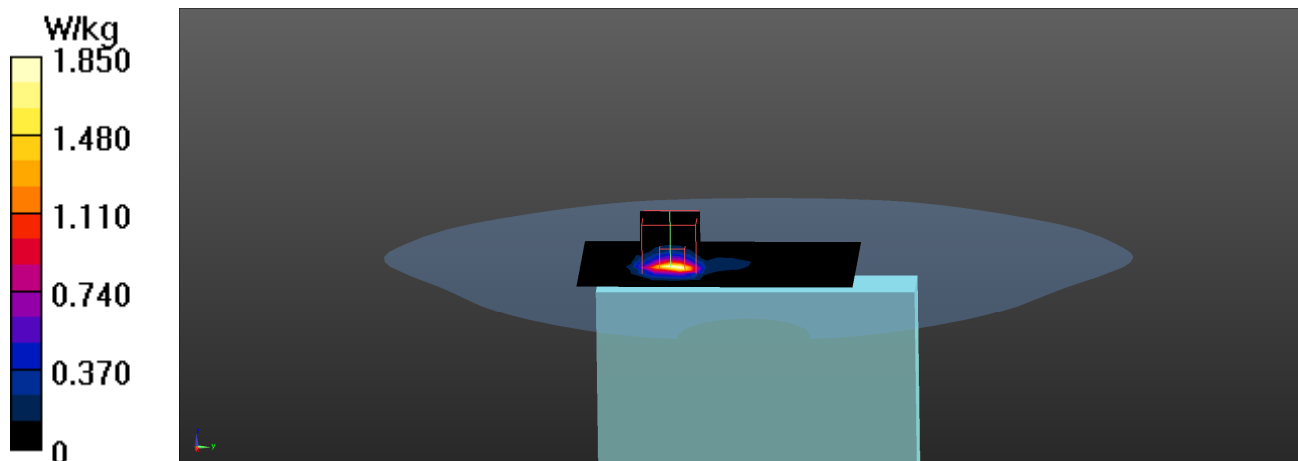
Peak SAR (extrapolated) = 3.41 W/kg

SAR(1 g) = 0.826 W/kg; SAR(10 g) = 0.245 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 62.9%

Maximum value of SAR (measured) = 2.02 W/kg



Test Laboratory: DEKRA

Date: 2023/10/18

6_WLAN5GHz_802.11ac80-VHT0_CH155_Top_5mm_ANT Main**DUT: SimPad PLUS 2; Type: 204-00150**

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

Communication System PAR: 0dB

Medium parameters used: $f = 5775$ MHz; $\sigma = 5.31$ S/m; $\epsilon_r = 34.48$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.4, 4.4, 4.4) @ 5775 MHz; Calibrated: 2022/11/23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Configuration/Flat/Area Scan (8x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.64 W/kg

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

Reference Value = 3.146 V/m; Power Drift = 0.17 dB

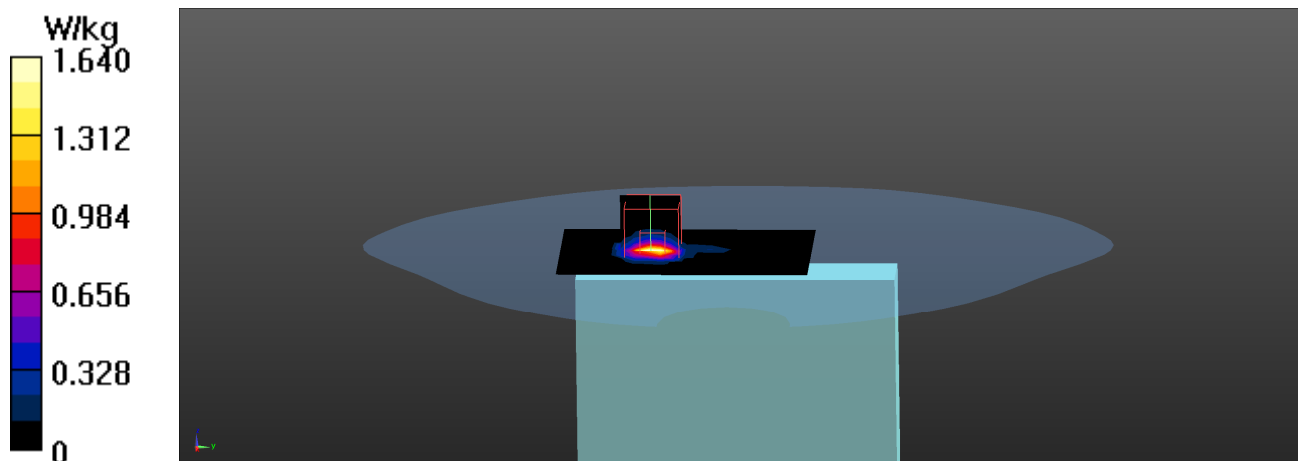
Peak SAR (extrapolated) = 3.17 W/kg

SAR(1 g) = 0.753 W/kg; SAR(10 g) = 0.213 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 62.7%

Maximum value of SAR (measured) = 1.88 W/kg



SAR measurement variability

Test Laboratory: DEKRA

Date: 2023/10/14

4_WLAN2.4GHz_802.11g_CH9_Top_5mm_ANT Main-Verify

DUT: SimPad PLUS 2; Type: 204-00150

Communication System: UID 0, WLAN 2.4G; Frequency: 2452 MHz

Communication System PAR: 0dB

Medium parameters used: $f = 2452$ MHz; $\sigma = 1.79$ S/m; $\epsilon_r = 39.95$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3979; ConvF(7.58, 7.58, 7.58) @ 2452 MHz; Calibrated: 2022/11/23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Configuration/Flat/Area Scan (6x10x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 1.38 W/kg

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

Reference Value = 30.56 V/m; Power Drift = -0.03 dB

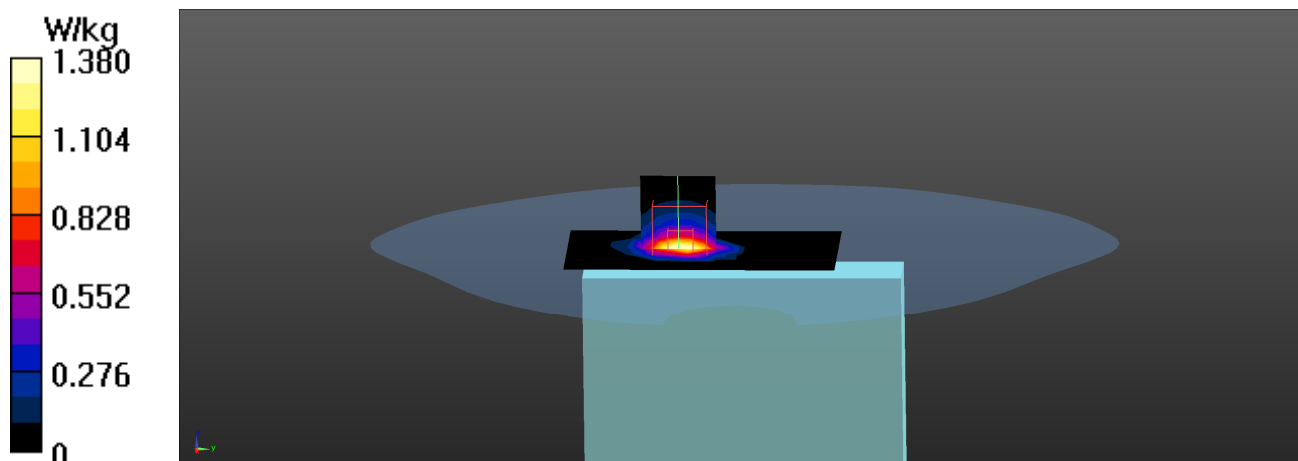
Peak SAR (extrapolated) = 1.94 W/kg

SAR(1 g) = 0.900 W/kg; SAR(10 g) = 0.394 W/kg

Smallest distance from peaks to all points 3 dB below = 8.5 mm

Ratio of SAR at M2 to SAR at M1 = 47.4%

Maximum value of SAR (measured) = 1.54 W/kg



Test Laboratory: DEKRA

Date: 2023/10/18

38_WLAN5GHz_802.11n40-HT0_CH54_Top_5mm_ANT Main-Verfy**DUT: SimPad PLUS 2; Type: 204-00150**

Communication System: UID 0, WLAN 5G; Frequency: 5270 MHz

Communication System PAR: 0dB

Medium parameters used: $f = 5270$ MHz; $\sigma = 4.64$ S/m; $\epsilon_r = 35.87$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3979; ConvF(4.8, 4.8, 4.8) @ 5270 MHz; Calibrated: 2022/11/23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2022/11/23
- Phantom: SAM with right table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Configuration/Flat/Area Scan (8x12x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.53 W/kg

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

Reference Value = 4.802 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 2.90 W/kg

SAR(1 g) = 0.785 W/kg; SAR(10 g) = 0.233 W/kg

Smallest distance from peaks to all points 3 dB below = 7.9 mm

Ratio of SAR at M2 to SAR at M1 = 66.5%

Maximum value of SAR (measured) = 1.87 W/kg

