

Appendix B. SAR Plots of SAR Measurement

The SAR plots for highest measured SAR in each exposure configuration, wireless mode and frequency band combination are shown as follows.

P01 WLAN2.4G_802.11b_Bottom Side_8mm_Ch6_Ant 1**DUT: BARR-WTW-P21030485**

Communication System: UID 10012 - CAB, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps);

Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: H19T27N1_0531 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.855$ S/m;

$\epsilon_r = 37.938$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(7.87, 7.87, 7.87) @ 2437 MHz; Calibrated: 2021/01/27

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn1431; Calibrated: 2021/03/24

- Phantom: ELI Phantom_1245; Type: QDOVA002AA;

- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (71x111x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.537 W/kg

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

Reference Value = 16.19 V/m; Power Drift = -0.13 dB

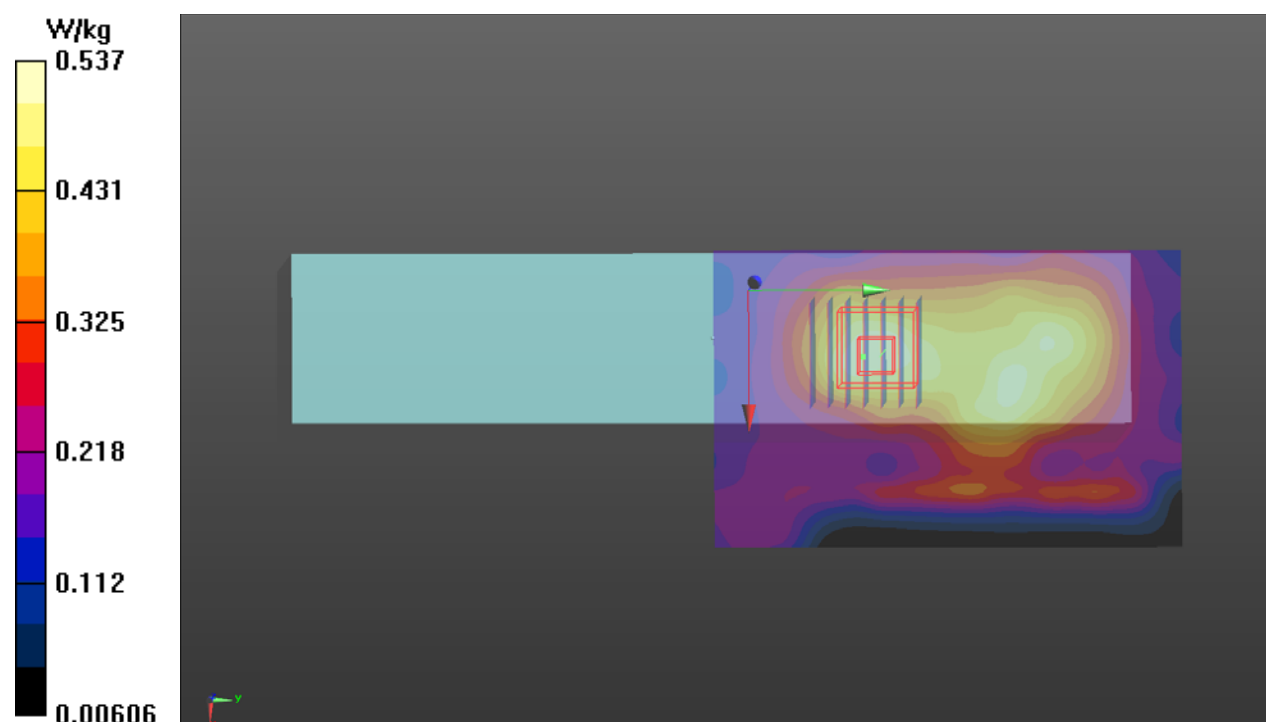
Peak SAR (extrapolated) = 0.554 W/kg

SAR(1 g) = 0.343 W/kg; SAR(10 g) = 0.231 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 21.9 mm

Ratio of SAR at M2 to SAR at M1 = 63.4%

Maximum value of SAR (measured) = 0.478 W/kg



P02 WLAN5.3G_802.11ac VHT160_Bottom Side_8mm_Ch50_Ant 0**DUT: BARR-WTW-P21030485**

Communication System: UID 10554 - AAD, IEEE 802.11ac WiFi (160MHz, MCS0); Frequency: 5250 MHz; Duty Cycle: 1:1

Medium: H34T60N1_0531 Medium parameters used: $f = 5250$ MHz; $\sigma = 4.725$ S/m; $\epsilon_r = 36.522$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(5.2, 5.2, 5.2) @ 5250 MHz; Calibrated: 2021/01/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2021/03/24
- Phantom: ELI Phantom_1245; Type: QDOVA002AA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (91x141x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.52 W/kg

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

Reference Value = 7.925 V/m; Power Drift = 0.16 dB

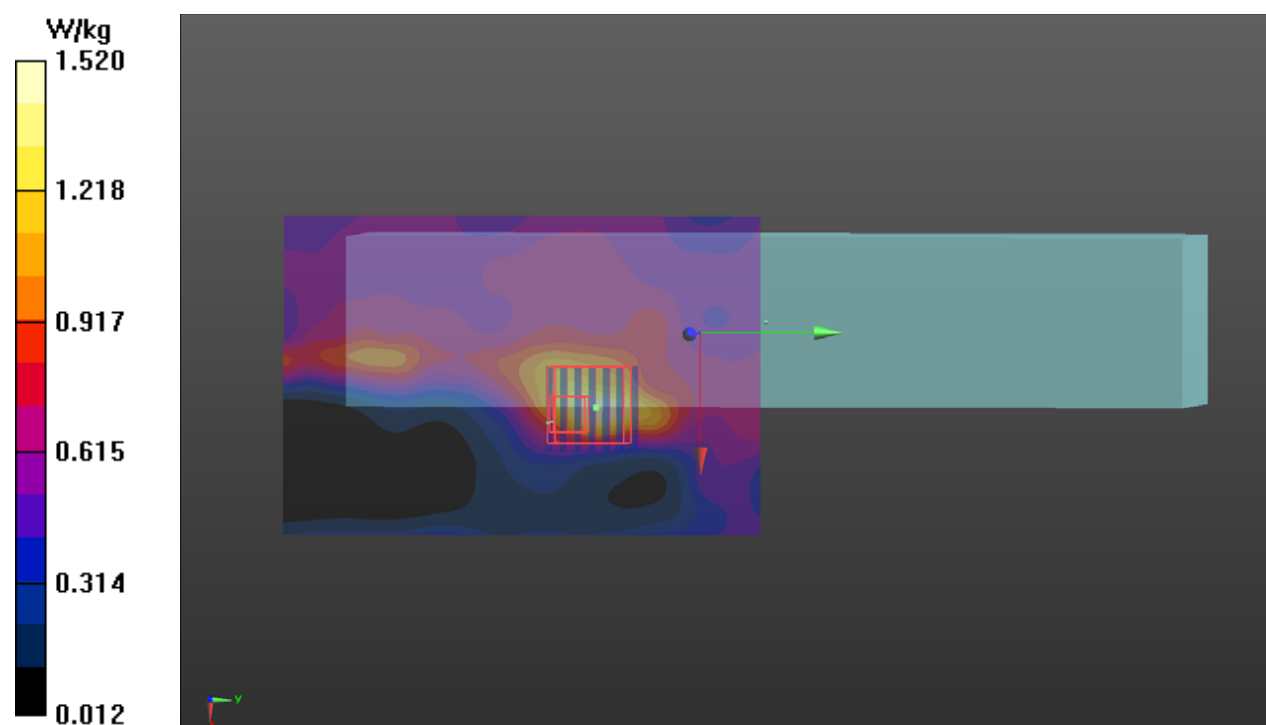
Peak SAR (extrapolated) = 1.84 W/kg

SAR(1 g) = 0.675 W/kg; SAR(10 g) = 0.410 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 17.1 mm

Ratio of SAR at M2 to SAR at M1 = 70.1%

Maximum value of SAR (measured) = 1.17 W/kg



P03 WLAN5.6G_802.11ac VHT160_Bottom Side_8mm_Ch114_Ant 0**DUT: BARR-WTW-P21030485**

Communication System: UID 10554 - AAD, IEEE 802.11ac WiFi (160MHz, MCS0); Frequency: 5570 MHz; Duty Cycle: 1:1

Medium: H34T60N1_0531 Medium parameters used: $f = 5570$ MHz; $\sigma = 5.112$ S/m; $\epsilon_r = 35.981$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(4.9, 4.9, 4.9) @ 5570 MHz; Calibrated: 2021/01/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2021/03/24
- Phantom: ELI Phantom_1245; Type: QDOVA002AA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (91x141x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.29 W/kg

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

Reference Value = 16.32 V/m; Power Drift = -0.16 dB

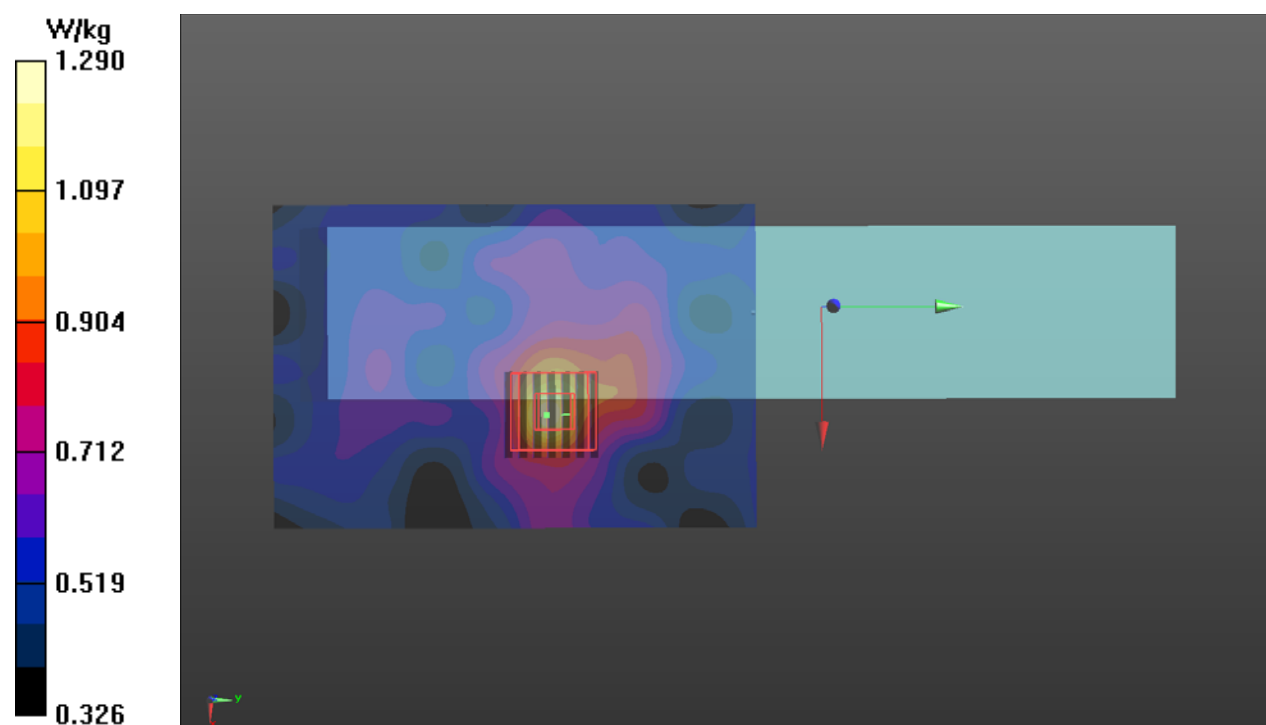
Peak SAR (extrapolated) = 2.08 W/kg

SAR(1 g) = 0.668 W/kg; SAR(10 g) = 0.406 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 14.2 mm

Ratio of SAR at M2 to SAR at M1 = 68.3%

Maximum value of SAR (measured) = 1.20 W/kg



P04 WLAN5.8G_802.11ac VHT80_Bottom Side_8mm_Ch155_Ant 0+1**DUT: BARR-WTW-P21030485**

Communication System: UID 10544 - AAC, IEEE 802.11ac WiFi (80MHz, MCS0); Frequency: 5775 MHz; Duty Cycle: 1:1

Medium: H34T60N1_0601 Medium parameters used: $f = 5775$ MHz; $\sigma = 5.153$ S/m; $\epsilon_r = 35.041$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C; Liquid Temperature : 23.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7555; ConvF(5, 5, 5) @ 5775 MHz; Calibrated: 2020/09/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2020/09/15
- Phantom: Twin-ELI Phantom_2118; Type: QD OVA 004 AA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (91x271x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.57 W/kg

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

Reference Value = 19.08 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 3.58 W/kg

SAR(1 g) = 0.733 W/kg; SAR(10 g) = 0.257 W/kg (SAR corrected for target medium)

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

Ratio of SAR at M2 to SAR at M1 = 57.1%

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

Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 19.08 V/m; Power Drift = -0.05 dB

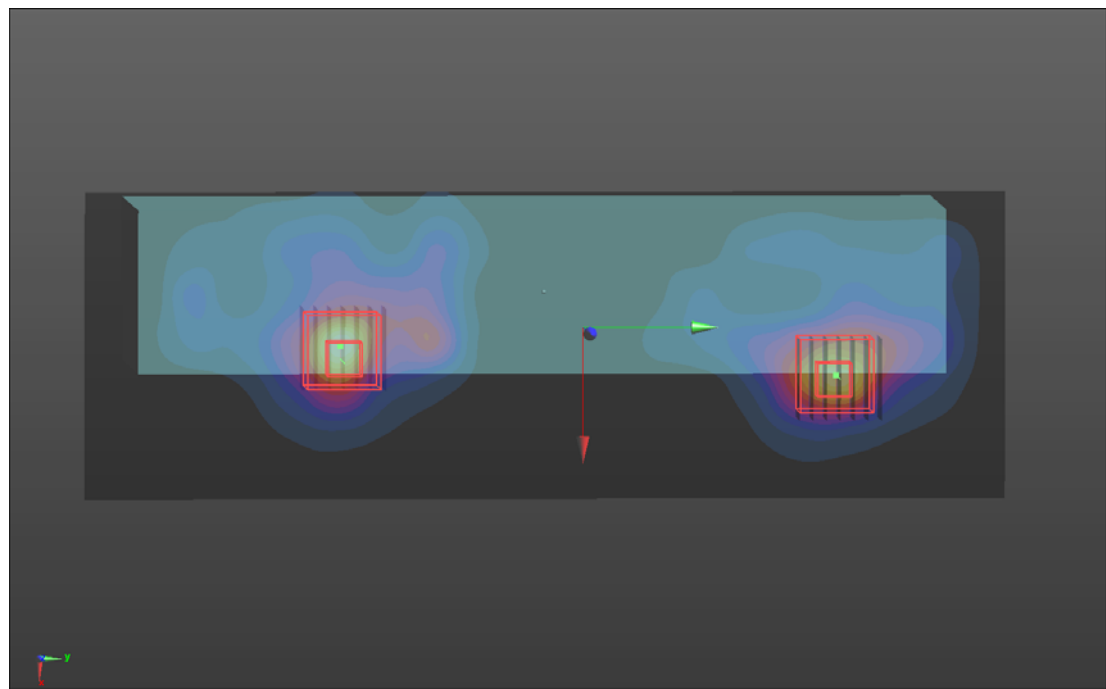
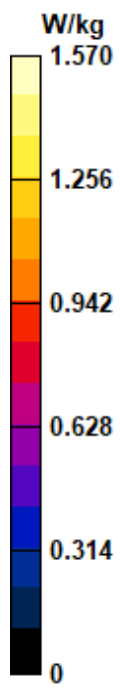
Peak SAR (extrapolated) = 3.65 W/kg

SAR(1 g) = 0.717 W/kg; SAR(10 g) = 0.247 W/kg (SAR corrected for target medium)

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

Ratio of SAR at M2 to SAR at M1 = 56.2%

Maximum value of SAR (measured) = 1.80 W/kg



P05 BT_BR EDR_Bottom Side_8mm_Ch0_Ant 1**DUT: BARR-WTW-P21030485**

Communication System: UID 10032 - CAA, IEEE 802.15.1 Bluetooth (GFSK, DH5); Frequency: 2402 MHz; Duty Cycle: 1:1.31

Medium: H19T27N1_0601 Medium parameters used (interpolated): $f = 2402$ MHz; $\sigma = 1.818$ S/m; $\epsilon_r = 38.278$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C; Liquid Temperature : 23.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7555; ConvF(7.59, 7.59, 7.59) @ 2402 MHz; Calibrated: 2020/09/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2020/09/15
- Phantom: Twin-ELI Phantom_2118; Type: QD OVA 004 AA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (81x231x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.506 W/kg

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

Reference Value = 15.32 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.749 W/kg

SAR(1 g) = 0.315 W/kg; SAR(10 g) = 0.153 W/kg (SAR corrected for target medium)

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

Ratio of SAR at M2 to SAR at M1 = 43.4%

Maximum value of SAR (measured) = 0.577 W/kg

