

Annex A. Plots of System Verification

The plots for system verification are shown as follows.

Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/02/18

S01 System Check_H2450_220218

DUT: Dipole 2450 MHz; Type: D2450V2; SN: 737

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: H19T27N1_0218 Medium parameters used (interpolated): $f = 2450$ MHz; $\sigma = 1.876$ S/m; $\epsilon_r = 38.596$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C ; Liquid Temperature : 23.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(7.49, 7.49, 7.49) @ 2450 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: SAM Phantom_1982; Type: QD 000 P41 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Pin=50mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 4.49 W/kg

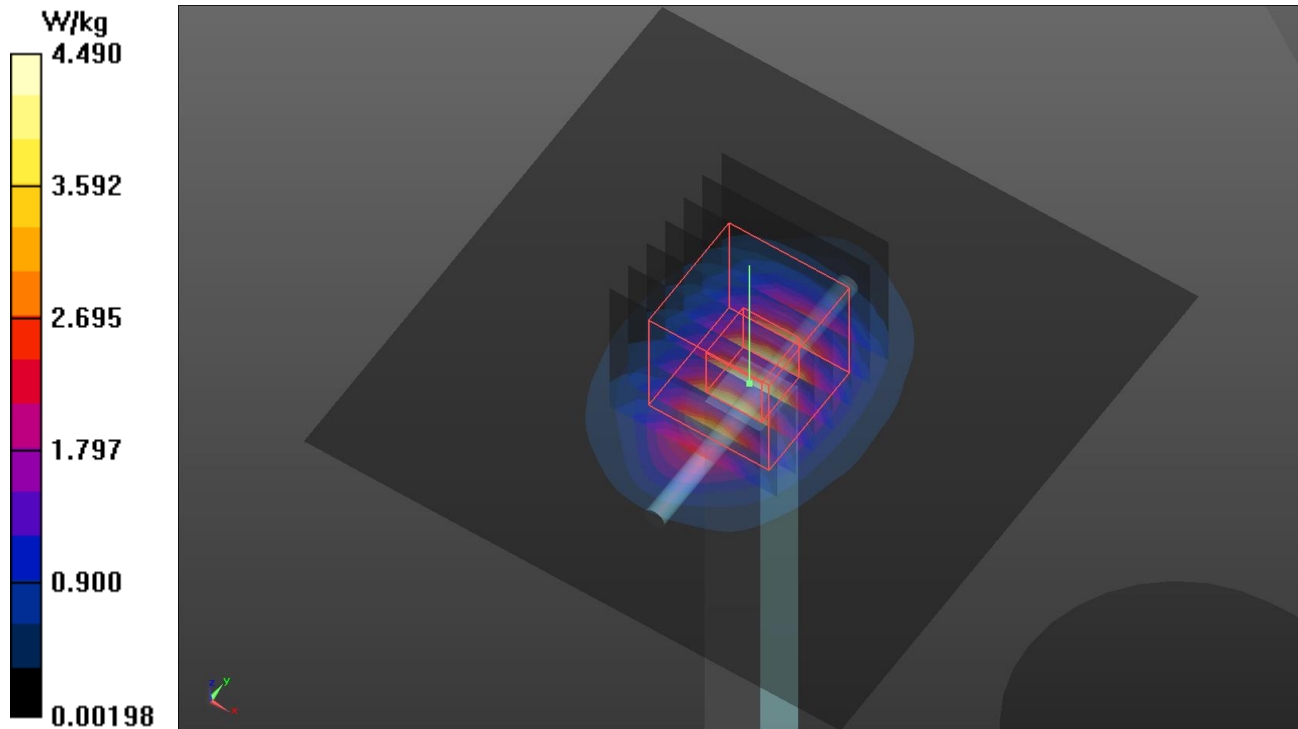
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 49.83 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 5.71 W/kg

SAR(1 g) = 2.60 W/kg; SAR(10 g) = 1.23 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 4.53 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/02/21

S02 System Check_H5750_220221

DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019

Communication System: UID 0, CW; Frequency: 5750 MHz; Duty Cycle: 1:1

Medium: H34T60N1_0221 Medium parameters used: $f = 5750$ MHz; $\sigma = 5.175$ S/m; $\epsilon_r = 35.814$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(5.1, 5.1, 5.1) @ 5750 MHz; Calibrated: 2021/3/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2021/4/14
- Phantom: SAM Phantom_1987; Type: QD 000 P41 AA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Pin=50mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 9.82 W/kg

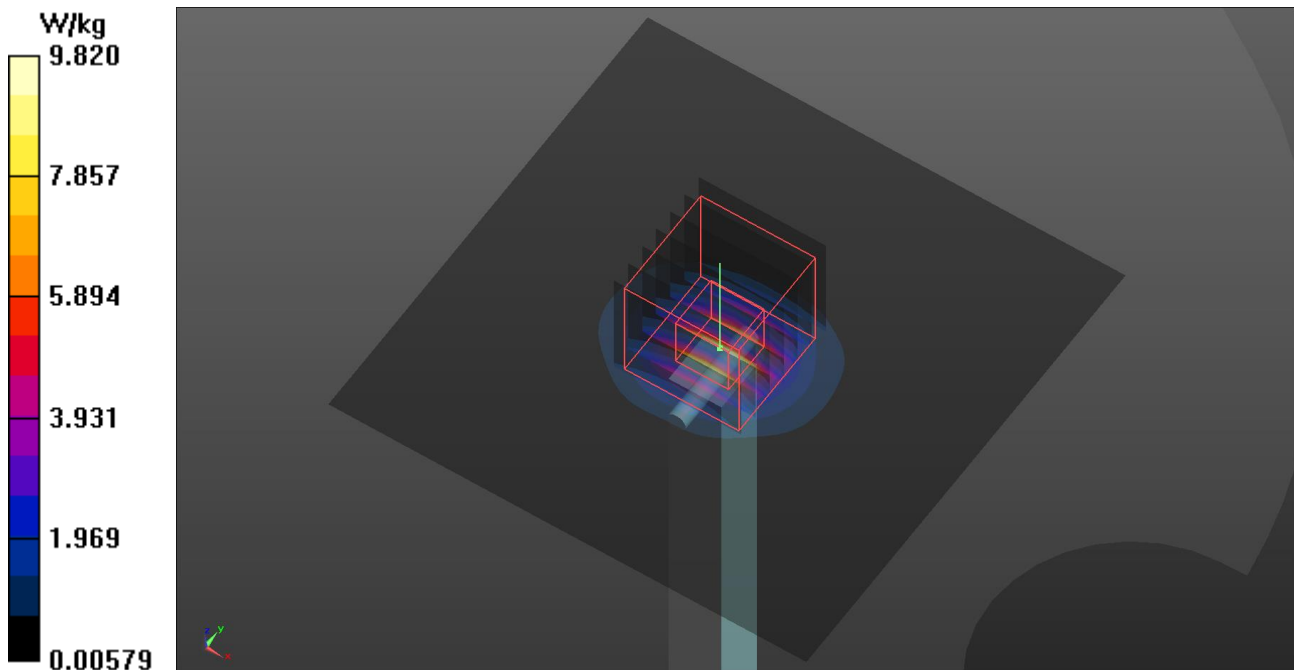
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 48.88 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 18.2 W/kg

SAR(1 g) = 4.05 W/kg; SAR(10 g) = 1.16 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 10.6 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/02/18

S03 System Check_H2450_220218

DUT: Dipole 2450 MHz; Type: D2450V2; SN: 737

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: H19T27N1_0218 Medium parameters used (interpolated): $f = 2450$ MHz; $\sigma = 1.876$ S/m; $\epsilon_r = 38.596$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C ; Liquid Temperature : 23.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(7.49, 7.49, 7.49) @ 2450 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: SAM Phantom_1982; Type: QD 000 P41 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Pin=50mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 4.49 W/kg

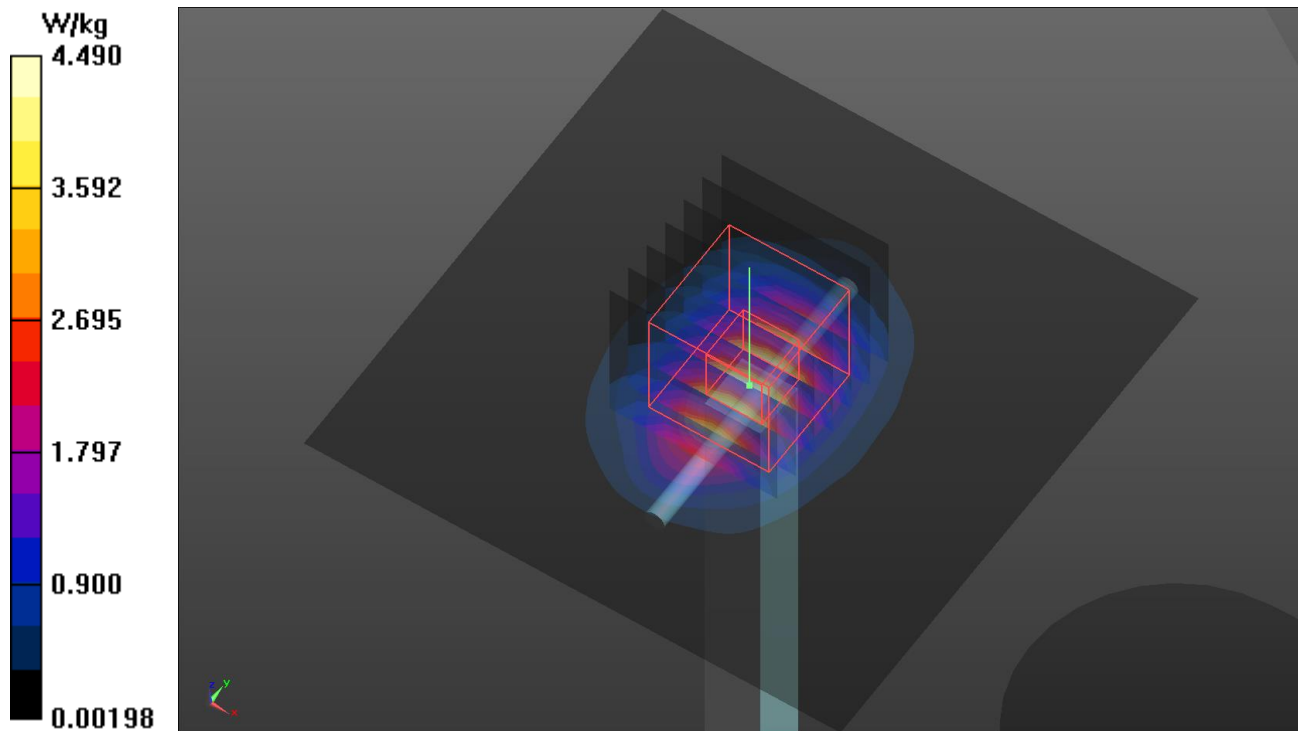
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 49.83 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 5.71 W/kg

SAR(1 g) = 2.60 W/kg; SAR(10 g) = 1.23 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 4.53 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/02/21

S04 System Check_H5250_220221

DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019

Communication System: UID 0, CW; Frequency: 5250 MHz; Duty Cycle: 1:1

Medium: H34T60N1_0221 Medium parameters used: $f = 5250$ MHz; $\sigma = 4.597$ S/m; $\epsilon_r = 36.617$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(5.29, 5.29, 5.29) @ 5250 MHz; Calibrated: 2021/3/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2021/4/14
- Phantom: SAM Phantom_1987; Type: QD 000 P41 AA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Pin=50mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 9.50 W/kg

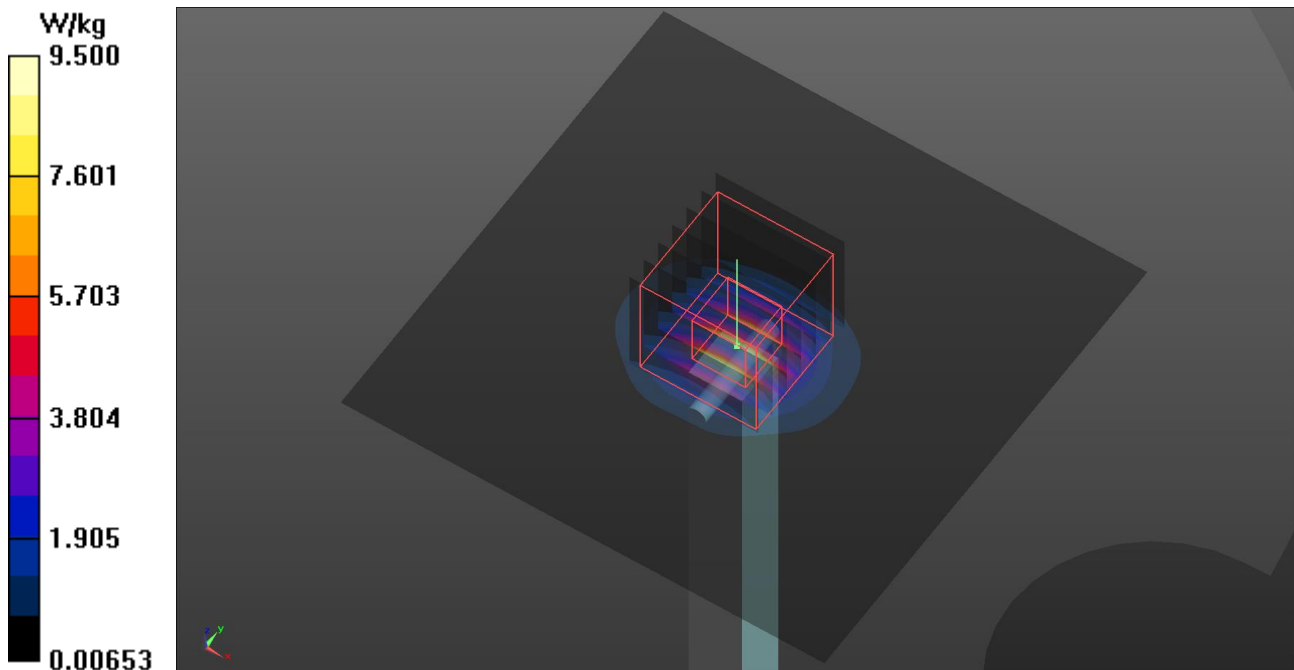
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 50.86 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 16.1 W/kg

SAR(1 g) = 4.13 W/kg; SAR(10 g) = 1.21 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 10.3 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/02/18

S07 System Check_H2450_220218

DUT: Dipole 2450 MHz; Type: D2450V2; SN: 737

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: H19T27N1_0218 Medium parameters used (interpolated): $f = 2450$ MHz; $\sigma = 1.876$ S/m; $\epsilon_r = 38.596$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C ; Liquid Temperature : 23.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(7.49, 7.49, 7.49) @ 2450 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: SAM Phantom_1982; Type: QD 000 P41 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Pin=50mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 4.49 W/kg

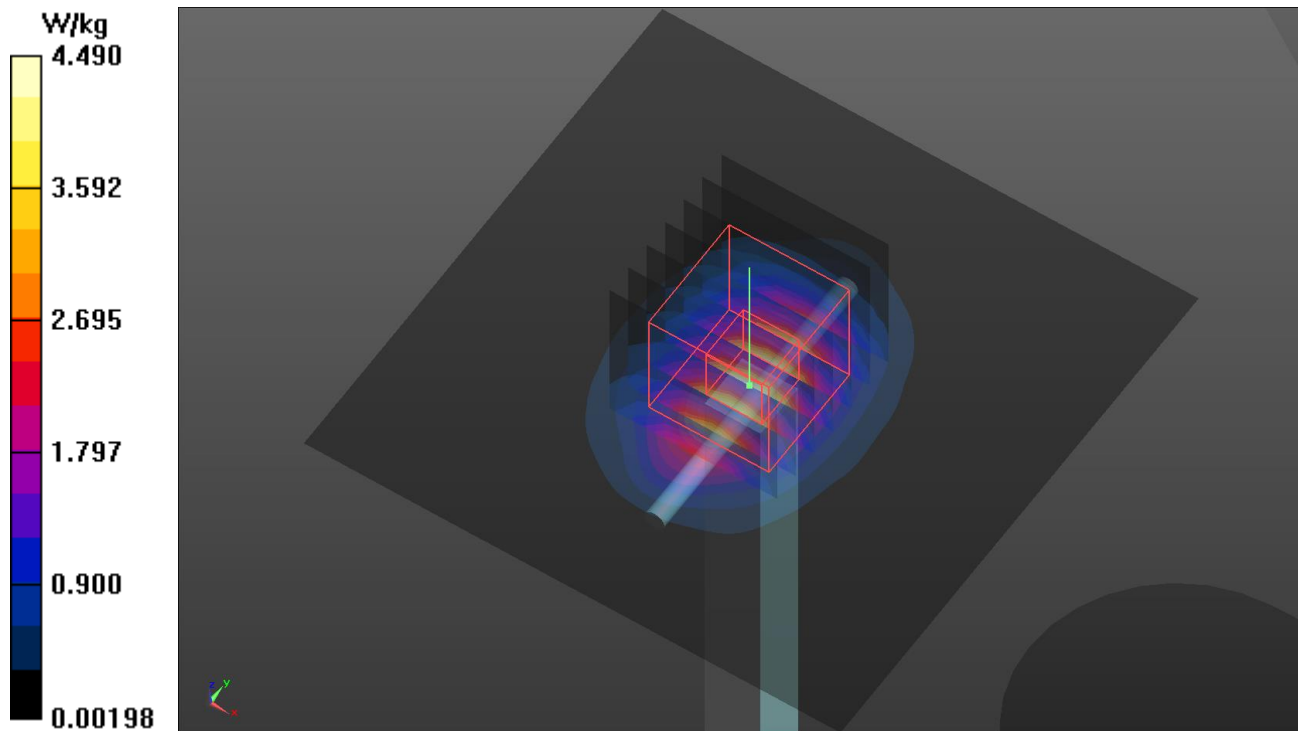
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 49.83 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 5.71 W/kg

SAR(1 g) = 2.60 W/kg; SAR(10 g) = 1.23 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 4.53 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/02/21

S08 System Check_H5250_220221

DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019

Communication System: UID 0, CW; Frequency: 5250 MHz; Duty Cycle: 1:1

Medium: H34T60N1_0221 Medium parameters used: $f = 5250$ MHz; $\sigma = 4.597$ S/m; $\epsilon_r = 36.617$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(5.29, 5.29, 5.29) @ 5250 MHz; Calibrated: 2021/3/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2021/4/14
- Phantom: SAM Phantom_1987; Type: QD 000 P41 AA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Pin=50mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 9.50 W/kg

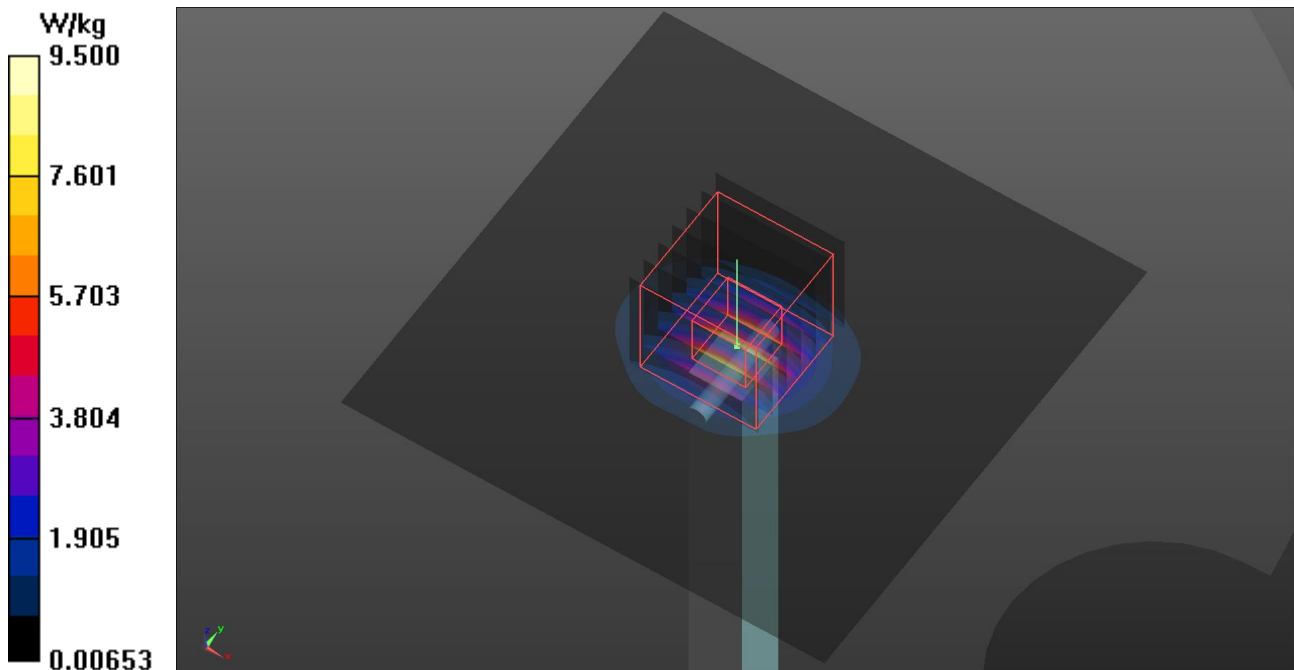
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 50.86 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 16.1 W/kg

SAR(1 g) = 4.13 W/kg; SAR(10 g) = 1.21 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 10.3 W/kg



Annex B. Plots of Measurement

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

Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/02/18

P01 WLAN2.4G_802.11b_Right Cheek_0mm_Ch1

DUT: BERD-WTW-P22020175

Communication System: UID 10012 - CAB, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps); Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: H19T27N1_0218 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.835$ S/m; $\epsilon_r = 38.742$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C ; Liquid Temperature : 23.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(7.49, 7.49, 7.49) @ 2412 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: SAM Phantom_1982; Type: QD 000 P41 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (101x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

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

Reference Value = 25.00 V/m; Power Drift = -0.07 dB

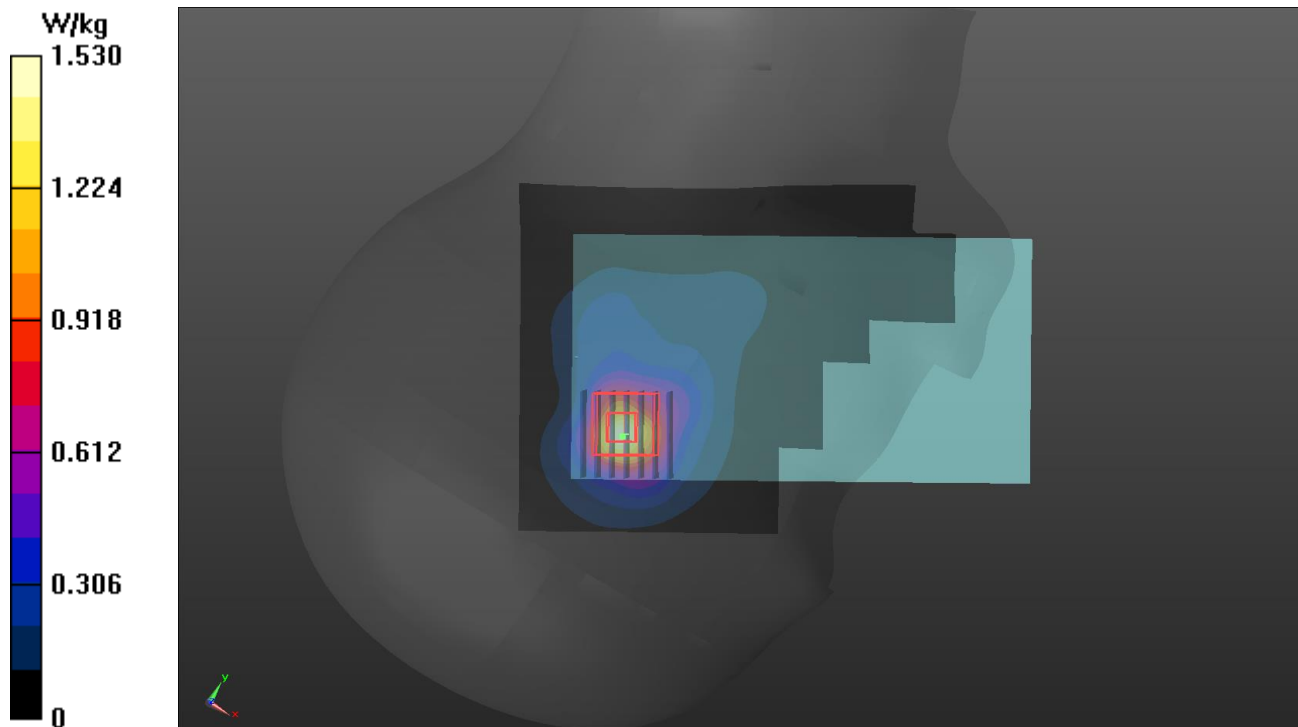
Peak SAR (extrapolated) = 1.73 W/kg

SAR(1 g) = 0.481 W/kg; SAR(10 g) = 0.244 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 10.6 mm

Ratio of SAR at M2 to SAR at M1 = 52.4%

Maximum value of SAR (measured) = 1.40 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/2/21

P02 WLAN5.8G_802.11ac VHT80_Right Cheek_0mm_Ch155

DUT: BERD-WTW-P22020175

Communication System: UID 10544 - AAC, IEEE 802.11ac WiFi (80MHz, MCS0); Frequency: 5775 MHz; Duty Cycle: 1:1.08

Medium: H34T60N1_0221 Medium parameters used: $f = 5775$ MHz; $\sigma = 5.203$ S/m; $\epsilon_r = 35.794$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(5.1, 5.1, 5.1) @ 5775 MHz; Calibrated: 2021/3/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2021/4/14
- Phantom: SAM Phantom_1987; Type: QD 000 P41 AA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (121x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.797 W/kg

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

Reference Value = 11.89 V/m; Power Drift = -0.06 dB

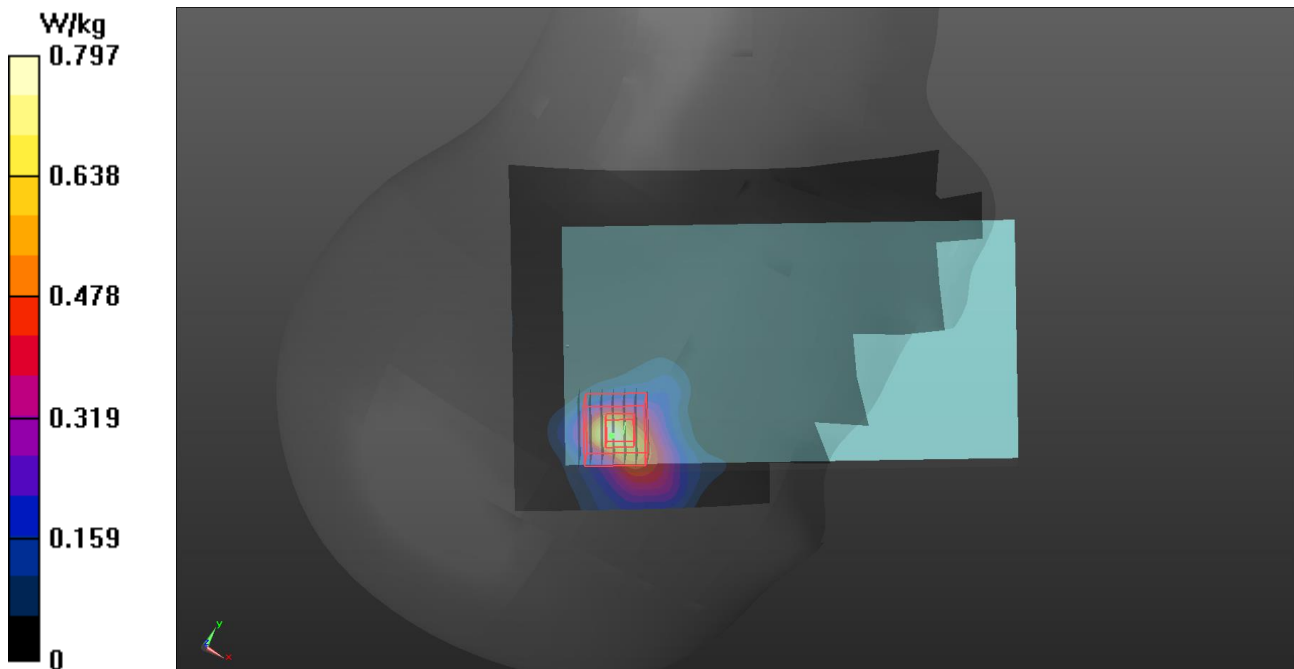
Peak SAR (extrapolated) = 1.20 W/kg

SAR(1 g) = 0.199 W/kg; SAR(10 g) = 0.077 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 = 64.9%

Maximum value of SAR (measured) = 0.746 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/02/18

P03 WLAN2.4G_802.11b_Front Face_10mm_Ch1_Holster_w_o

DUT: BERD-WTW-P22020175

Communication System: UID 10012 - CAB, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps); Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: H19T27N1_0218 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.835$ S/m; $\epsilon_r = 38.742$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C ; Liquid Temperature : 23.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(7.49, 7.49, 7.49) @ 2412 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: SAM Phantom_1982; Type: QD 000 P41 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (101x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.398 W/kg

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

Reference Value = 14.49 V/m; Power Drift = -0.02 dB

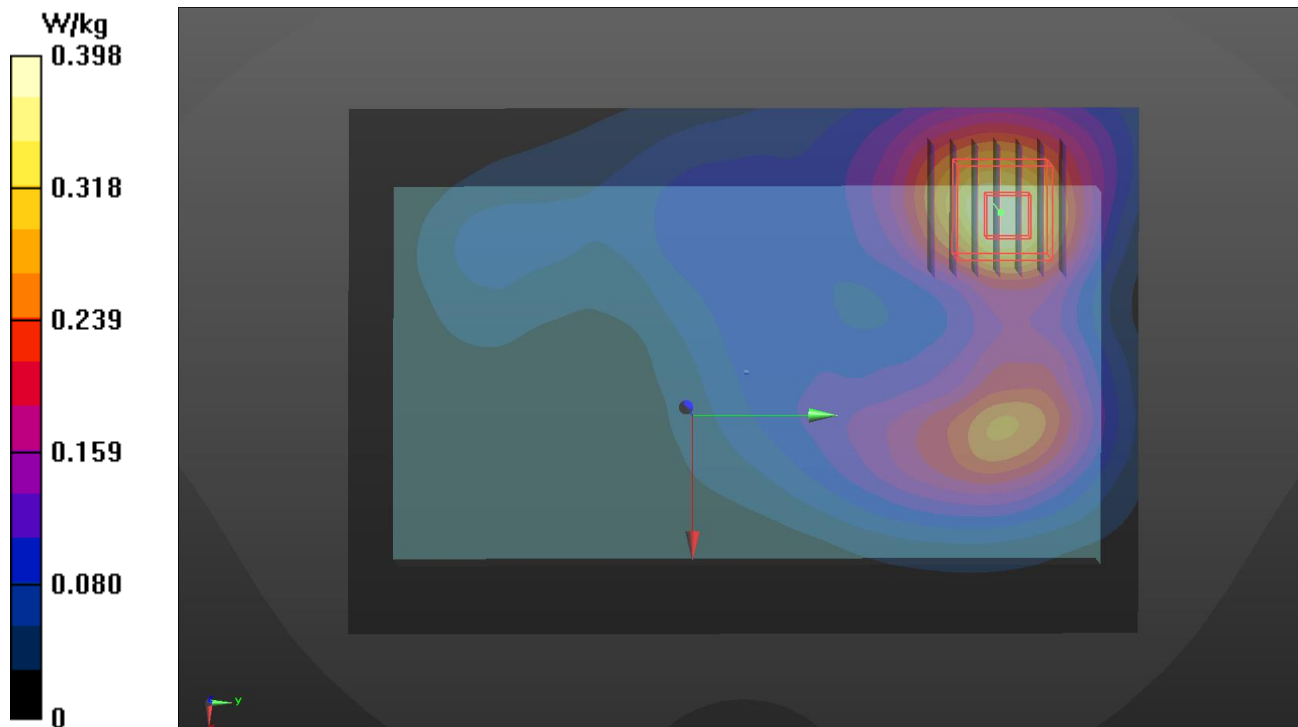
Peak SAR (extrapolated) = 0.502 W/kg

SAR(1 g) = 0.253 W/kg; SAR(10 g) = 0.136 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 15.7 mm

Ratio of SAR at M2 to SAR at M1 = 50.7%

Maximum value of SAR (measured) = 0.402 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/2/21

P04 WLAN5.3G_802.11ac VHT80_Rear Face_10mm_Ch58_Holster_w_o

DUT: BERD-WTW-P22020175

Communication System: UID 10544 - AAC, IEEE 802.11ac WiFi (80MHz, MCS0); Frequency: 5290 MHz; Duty Cycle: 1:1.08

Medium: H34T60N1_0221 Medium parameters used: $f = 5290$ MHz; $\sigma = 4.644$ S/m; $\epsilon_r = 36.58$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(5.29, 5.29, 5.29) @ 5290 MHz; Calibrated: 2021/3/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2021/4/14
- Phantom: SAM Phantom_1987; Type: QD 000 P41 AA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (121x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.614 W/kg

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

Reference Value = 11.70 V/m; Power Drift = -0.06 dB

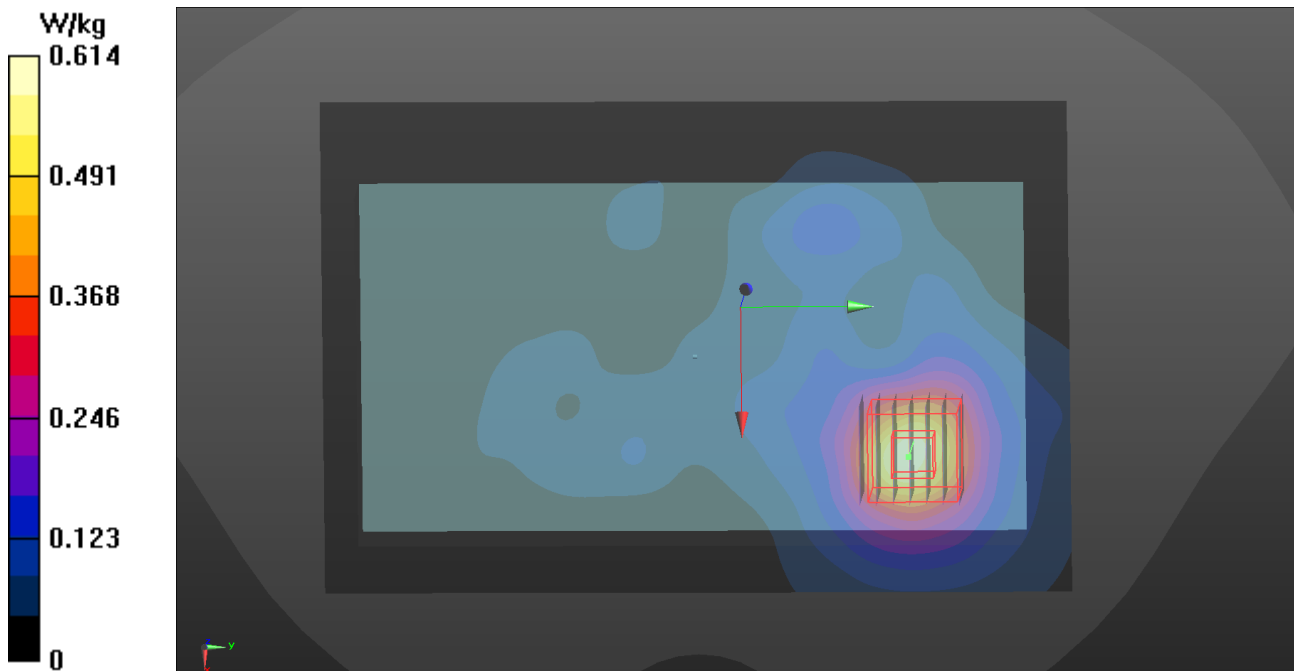
Peak SAR (extrapolated) = 0.976 W/kg

SAR(1 g) = 0.179 W/kg; SAR(10 g) = 0.084 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 13.6 mm

Ratio of SAR at M2 to SAR at M1 = 65.8%

Maximum value of SAR (measured) = 0.622 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/02/18

P07 WLAN2.4G_802.11b_Left Side_0mm_Ch1_Holster_w_o

DUT: BERD-WTW-P22020175

Communication System: UID 10012 - CAB, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps); Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: H19T27N1_0218 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.835$ S/m; $\epsilon_r = 38.742$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C ; Liquid Temperature : 23.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(7.49, 7.49, 7.49) @ 2412 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: SAM Phantom_1982; Type: QD 000 P41 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (81x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 2.29 W/kg

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

Reference Value = 33.91 V/m; Power Drift = -0.08 dB

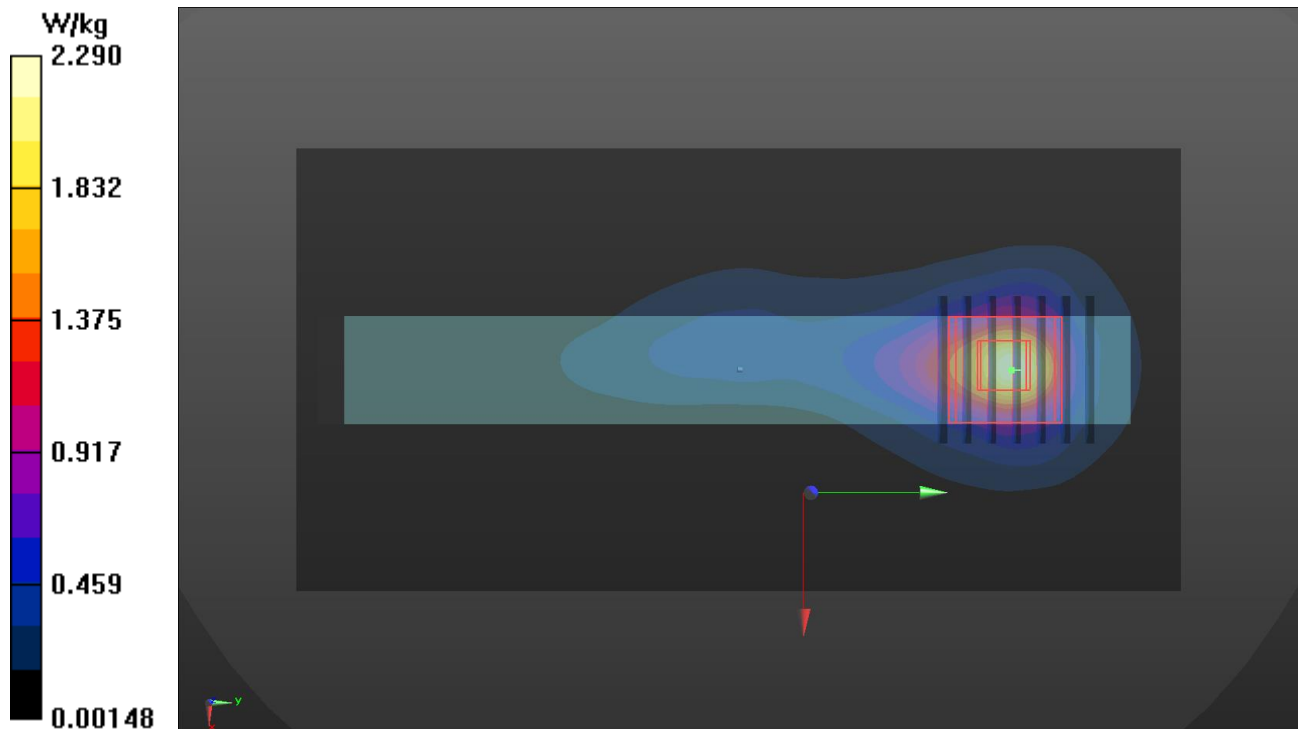
Peak SAR (extrapolated) = 3.80 W/kg

SAR(1 g) = 1.45 W/kg; SAR(10 g) = 0.599 W/kg (SAR corrected for target medium)

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

Ratio of SAR at M2 to SAR at M1 = 41.7%

Maximum value of SAR (measured) = 2.68 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/2/21

P08 WLAN5.3G_802.11ac VHT80_Rear Face_0mm_Ch58_Holster_w_o

DUT: BERD-WTW-P22020175

Communication System: UID 10544 - AAC, IEEE 802.11ac WiFi (80MHz, MCS0); Frequency: 5290 MHz; Duty Cycle: 1:1.08

Medium: H34T60N1_0221 Medium parameters used: $f = 5290$ MHz; $\sigma = 4.644$ S/m; $\epsilon_r = 36.58$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(5.29, 5.29, 5.29) @ 5290 MHz; Calibrated: 2021/3/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2021/4/14
- Phantom: SAM Phantom_1987; Type: QD 000 P41 AA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (121x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 2.18 W/kg

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

Reference Value = 22.34 V/m; Power Drift = -0.05 dB

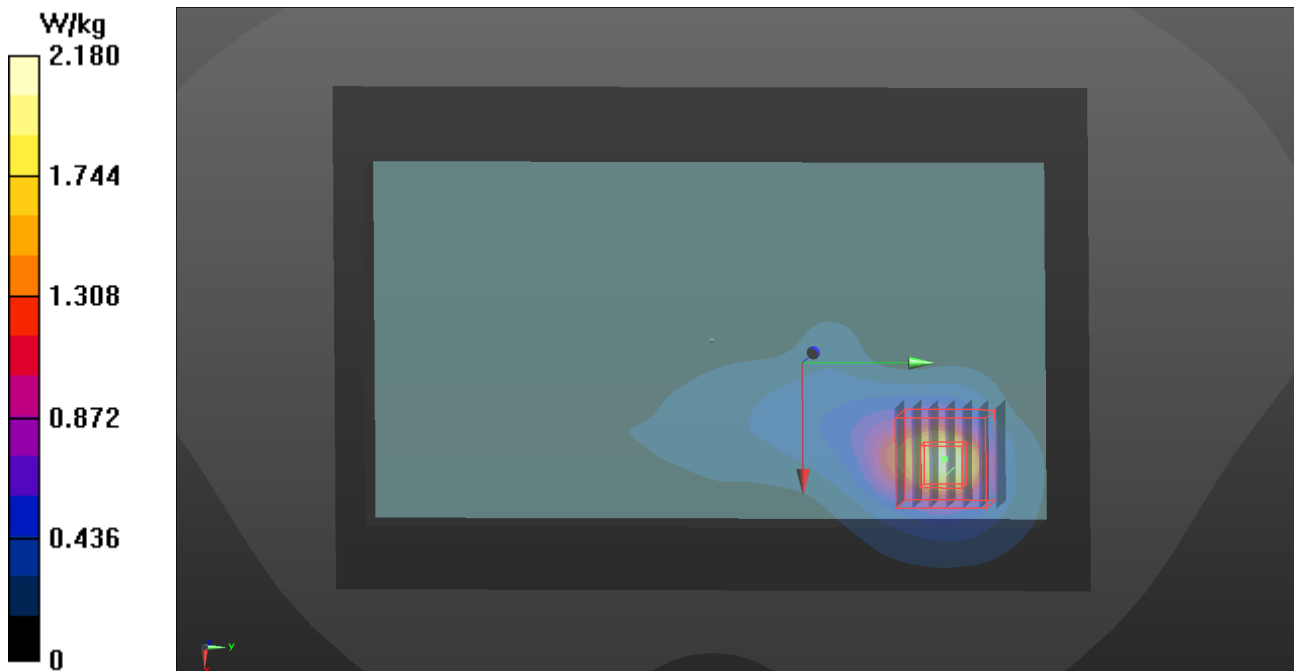
Peak SAR (extrapolated) = 3.89 W/kg

SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.334 W/kg (SAR corrected for target medium)

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

Ratio of SAR at M2 to SAR at M1 = 64.6%

Maximum value of SAR (measured) = 2.34 W/kg



Annex C. Tissue & System Verification

The measuring results for tissue simulating liquid and system check are shown as below.

Note:

1. For Section 4.3, the dielectric properties of the tissue simulating liquid have been measured within 24 hours before the SAR testing and within $\pm 10\%$ of the target values. Liquid temperature during the SAR testing has kept within $\pm 2^\circ\text{C}$.
2. For Section 4.4, The SAR measurement system was validated according to procedures in KDB 865664 D01. The validation status in tabulated summary is as below.
3. For Section 4.5, Comparing to the reference SAR value provided by SPEAG in dipole calibration certificate, the deviation of system check results is within its specification of 10 %. The result indicates the system check can meet the variation criterion and the plots please refer to Annex A of this report.

Tissue Verification									Validation for CW			Validation for Modulation				System Validation					Note			
Plot No.	Frequency (MHz)	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (εr)	Targeted Conductivity (σ)	Targeted Permittivity (εr)	Deviation Conductivity (σ)	Deviation Permittivity (εr)	Sensitivity Range	Probe Linearity	Probe Isotropy	Modulation Type	Duty Factor	PAR	Date	Frequency (MHz)	Targeted 1g SAR (W/kg)	Measured 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)	Dipole S/N	Probe S/N	DAE S/N	Output Power (dB)
S01	2450	23.1	1.876	38.596	1.8	39.2	4.22	-1.54	Pass	Pass	Pass	OFDM	N/A	Pass	Feb. 18, 2022	2450	52.60	2.6	51.88	-1.37	737	7554	1589	17
S02	5750	23.2	5.175	35.814	5.22	35.4	-0.86	1.17	Pass	Pass	Pass	OFDM	N/A	Pass	Feb. 21, 2022	5750	79.40	4.05	80.81	1.77	1019	3650	861	17
S03	2450	23.1	1.876	38.596	1.8	39.2	4.22	-1.54	Pass	Pass	Pass	OFDM	N/A	Pass	Feb. 18, 2022	2450	52.60	2.6	51.88	-1.37	737	7554	1589	17
S04	5250	23.2	4.597	36.617	4.71	35.9	-2.40	2.00	Pass	Pass	Pass	OFDM	N/A	Pass	Feb. 21, 2022	5250	80.60	4.13	82.40	2.24	1019	3650	861	17
S05	2450	23.1	1.876	38.596	1.8	39.2	4.22	-1.54	Pass	Pass	Pass	OFDM	N/A	Pass	Feb. 18, 2022	2450	52.60	2.6	51.88	-1.37	737	7554	1589	17
S06	5250	23.2	4.597	36.617	4.71	35.9	-2.40	2.00	Pass	Pass	Pass	OFDM	N/A	Pass	Feb. 21, 2022	5250	80.60	4.13	82.40	2.24	1019	3650	861	17

Tissue Verification								Validation for CW			Validation for Modulation				System Validation					Note				
Plot No.	Frequency (MHz)	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ε _r)	Targeted Conductivity (σ)	Targeted Permittivity (ε _r)	Deviation Conductivity (σ)	Deviation Permittivity (ε _r)	Sensitivity Range	Probe Linearity	Probe Isotropy	Modulation Type	Duty Factor	PAR	Date	Frequency (MHz)	Targeted 10g SAR (W/kg)	Measured 10g SAR (W/kg)	Normalized 10g SAR (W/kg)	Deviation (%)	Dipole S/N	Probe S/N	DAE S/N	Output Power (dB)
S07	2450	23.1	1.876	38.596	1.8	39.2	4.22	-1.54	Pass	Pass	Pass	OFDM	N/A	Pass	Feb. 18, 2022	2450	23.90	1.23	24.54	2.69	737	7554	1589	17
S08	5250	23.2	4.597	36.617	4.71	35.9	-2.40	2.00	Pass	Pass	Pass	OFDM	N/A	Pass	Feb. 21, 2022	5250	23.00	1.21	24.14	4.97	1019	3650	861	17

Annex D. Maximum Target Conducted Power

The maximum conducted average power (Unit: dBm) including tune-up tolerance is shown as below.

WLAN Tune-up Power (Full)			
WLAN 2.4GHz			
Mode	Channel	Frequency	SISO Ant 0 Max Tune up
802.11b	1	2412	19.0
	6	2437	19.0
	11	2462	19.0
802.11g	1	2412	16.5
	6	2437	16.5
	11	2462	16.5
802.11n HT20	1	2412	16.5
	6	2437	16.5
	11	2462	16.5
802.11n HT40	3	2422	13.0
	6	2437	15.5
	9	2452	15.5

WLAN Tune-up Power (Full)			
WLAN 5.3GHz			
Mode	Channel	Frequency	SISO Ant 0 Max Tune up
802.11a	52	5260	16.5
	56	5280	16.5
	60	5300	16.5
	64	5320	16.5
802.11n HT20	52	5260	16.5
	56	5280	16.5
	60	5300	16.5
	64	5320	16.5
802.11n HT40	54	5270	16.5
	62	5310	16.5
802.11ac VHT80	58	5290	16.5

WLAN Tune-up Power (Full)			
WLAN 5.8GHz			
Mode	Channel	Frequency	SISO Ant 0 Max Tune up
802.11a	149	5745	16.5
	153	5765	16.5
	157	5785	16.5
	161	5805	16.5
	165	5825	16.5
802.11n HT20	149	5745	16.5
	153	5765	16.5
	157	5785	16.5
	161	5805	16.5
	165	5825	16.5
802.11n HT40	151	5755	16.5
	159	5795	16.5
802.11ac VHT80	155	5775	16.5

Annex E. Measured Conducted Power Result

The measuring conducted power (Unit: dBm) are shown as below.

WLAN Conducted Power (Full)			
WLAN2.4GHz Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11b	1	2412	18.11
	6	2437	18.13
	11	2462	18.09
802.11n HT40	3	2422	12.81
	6	2437	15.1
	9	2452	13.59

WLAN Conducted Power (Full)			
WLAN 5.3GHz Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11a	52	5260	15.66
	56	5280	15.48
	60	5300	15.68
	64	5320	15.63
802.11n HT20	52	5260	15.55
	56	5280	15.47
	60	5300	15.65
	64	5320	15.63
802.11n HT40	54	5270	15.61
	62	5310	15.57
802.11ac VHT80	58	5290	15.66

WLAN Conducted Power (Full)			
WLAN 5.8GHz Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11a	149	5745	15.44
	153	5765	15.61
	157	5785	15.63
	161	5805	15.59
	165	5825	15.48
802.11n HT20	149	5745	15.49
	153	5765	15.63
	157	5785	15.44
	161	5805	15.58
	165	5825	15.53
802.11n HT40	151	5755	15.61
	159	5795	15.57
802.11ac VHT80	155	5775	15.64

Annex F. SAR Test Result

SAR Results for Head / Body / Extremity Exposure Condition.

Note:

1. SAR testing for WLAN was performed on the maximum power mode.
2. The “< 0.001” means there is no SAR value or the SAR is too low to be measured.

Head SAR Test Result															
System & Position						DUT & Accessory	SAR								
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Holster	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	SAR-1g (W/kg)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	WLAN2.4G	802.11b	Right Cheek	0	6		100.00	1.00	19.00	18.13	1.22	-0.05	0.444	0.444	0.54
	WLAN2.4G	802.11b	Right Tilted	0	6		100.00	1.00	19.00	18.13	1.22	0.12	0.322	0.322	0.39
	WLAN2.4G	802.11b	Left Cheek	0	6		100.00	1.00	19.00	18.13	1.22	0.17	0.294	0.294	0.36
	WLAN2.4G	802.11b	Left Tilted	0	6		100.00	1.00	19.00	18.13	1.22	0.05	0.215	0.215	0.26
1	WLAN2.4G	802.11b	Right Cheek	0	1		100.00	1.00	19.00	18.11	1.23	-0.01	0.481	0.481	0.59
	WLAN2.4G	802.11b	Right Cheek	0	11		100.00	1.00	19.00	18.09	1.23	0.18	0.451	0.451	0.55
2	WLAN5.8G	802.11ac VHT80	Right Cheek	0	155		92.70	1.08	16.50	15.64	1.22	-0.06	0.199	0.199	0.26

Body SAR Test Result

System & Position						DUT & Accessory	SAR							
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Holster	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	WLAN2.4G	802.11b	Front Face	10	6	w/o	100.00	1.00	19.00	18.13	1.22	0.09	0.203	0.25
	WLAN2.4G	802.11b	Rear Face	10	6	w/o	100.00	1.00	19.00	18.13	1.22	0.04	0.186	0.23
	WLAN2.4G	802.11b	Front Face	0	6	w/ Holster 1	100.00	1.00	19.00	18.13	1.22	-0.19	0.12	0.15
	WLAN2.4G	802.11b	Rear Face	0	6	w/ Holster 1	100.00	1.00	19.00	18.13	1.22	-0.16	0.122	0.15
	WLAN2.4G	802.11b	Front Face	0	6	w/ Holster 2	100.00	1.00	19.00	18.13	1.22	0.18	0.127	0.15
	WLAN2.4G	802.11b	Rear Face	0	6	w/ Holster 2	100.00	1.00	19.00	18.13	1.22	-0.02	0.13	0.16
3	WLAN2.4G	802.11b	Front Face	10	1	w/o	100.00	1.00	19.00	18.11	1.23	-0.02	0.213	0.26
	WLAN2.4G	802.11b	Front Face	10	11	w/o	100.00	1.00	19.00	18.09	1.23	-0.14	0.192	0.24
4	WLAN5.3G	802.11ac VHT80	Rear Face	10	58	w/o	92.70	1.08	16.50	15.66	1.21	-0.06	0.179	0.23

Phablet SAR Test Result

System & Position						DUT & Accessory	SAR							
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Holster	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-10g (W/kg)	Scaled SAR-10g (W/kg)
	WLAN2.4G	802.11b	Front Face	0	6	w/o	100.00	1.00	19.00	18.13	1.22	-0.08	0.481	0.59
	WLAN2.4G	802.11b	Rear Face	0	6	w/o	100.00	1.00	19.00	18.13	1.22	0.14	0.318	0.39
	WLAN2.4G	802.11b	Left Side	0	6	w/o	100.00	1.00	19.00	18.13	1.22	0.01	0.559	0.68
	WLAN2.4G	802.11b	Top Side	0	6	w/o	100.00	1.00	19.00	18.13	1.22	-0.08	0.22	0.27
7	WLAN2.4G	802.11b	Left Side	0	1	w/o	100.00	1.00	19.00	18.11	1.23	-0.08	0.599	0.74
	WLAN2.4G	802.11b	Left Side	0	11	w/o	100.00	1.00	19.00	18.09	1.23	-0.1	0.572	0.70
8	WLAN5.3G	802.11ac VHT80	Rear Face	0	58	w/o	92.70	1.08	16.50	15.66	1.21	-0.05	0.334	0.44

Annex G. SAR Measurement Variability

The repeated SAR is not required.

Annex H. Analysis of Simultaneous Transmission SAR.

Since all the verified SAR values are less than the values in original report, the simultaneous transmission evaluation has no effect and the simultaneous transmission SAR is not required.

Annex I. SAR to Peak Location Separation Ratio Analysis.

Since sum of simultaneous transmission SAR is less than the SAR limit for Body / Head : SAR_{1g} 1.6 W/kg ;
Extremity SAR_{10g} 4.0 W/kg. There is no requirement for SAR to Peak Location Separation Ratio Analysis.

Annex J. Calibration of Test Equipment List

Calibration of Test Equipment List are shown as below.

Equipment for SAR Test					
Equipment	Manufacturer	Model	SN	Cal. Date	Cal. Interval
System Validation Dipole	SPEAG	D2450V2	737	Aug. 26, 2021	1 Year
System Validation Dipole	SPEAG	D5GHzV2	1019	Mar. 19, 2021	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	7554	Aug. 26, 2021	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	3650	Mar. 26, 2021	1 Year
Data Acquisition Electronics	SPEAG	DAE4	861	Apr. 14, 2021	1 Year
Data Acquisition Electronics	SPEAG	DAE4	1589	Aug. 20, 2021	1 Year
Spectrum Analyzer	R&S	FSL6	102006	Apr. 06, 2021	1 Year
Universal Wireless Test Set	Anritsu	MT8870A/MU887000A	6201699387	Sep. 22, 2021	1 Year
Thermometer	YFE	YF-160A	191100743	Apr. 12, 2021	1 Year
Dielectric Assessment Kit	SPEAG	DAKS-3.5	1151	Jul. 14, 2021	1 Year
Powersource1	SPEAG	SE_UMS_160 BA	4010	Jul. 13, 2021	1 Year