

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: 2022/08/24

S01 System Check_H1750_220824

DUT: Dipole 1750 MHz; Type: D1750V2; SN: 1055

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: H16T20N1_0824 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.333$ S/m; $\epsilon_r = 38.7$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7472; ConvF(8.8, 8.8, 8.8) @ 1750 MHz; Calibrated: 2022/05/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2022/02/23
- 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 (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.72 W/kg

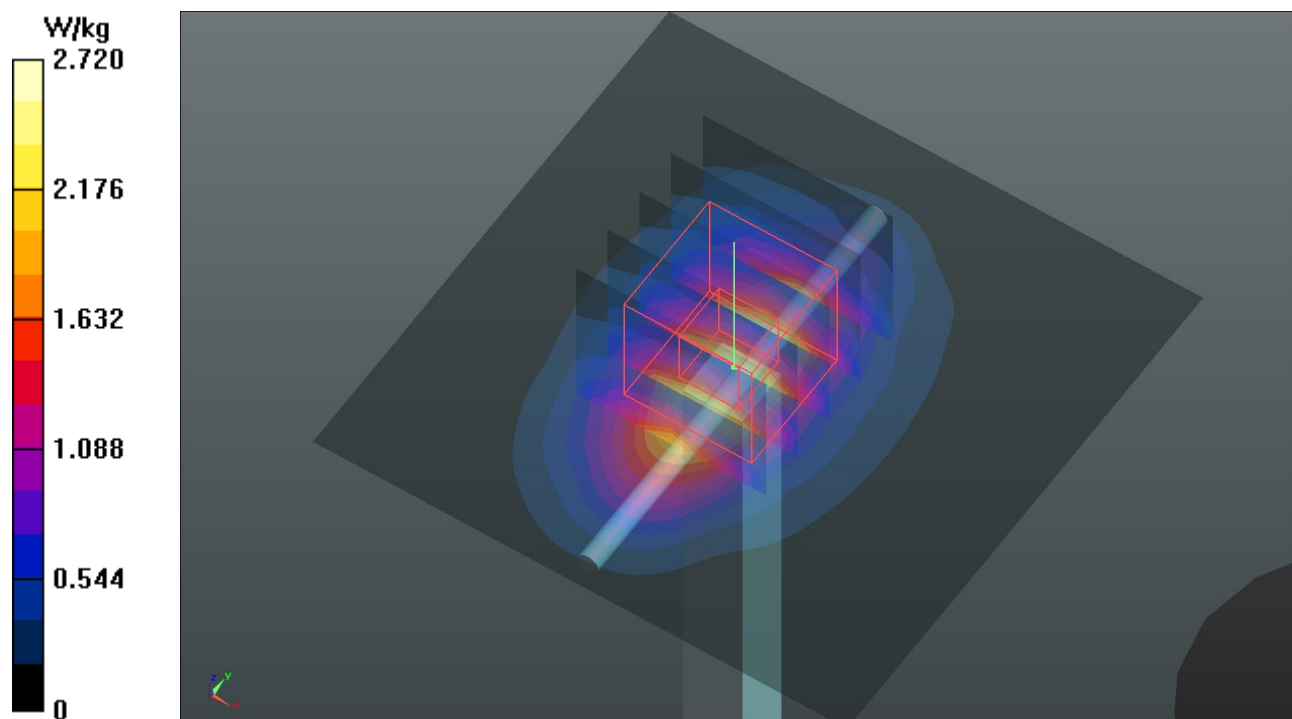
Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 45.87 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 3.29 W/kg

SAR(1 g) = 1.87 W/kg; SAR(10 g) = 1.01 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 2.81 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/8/24

S02 System Check_H750_220824

DUT: Dipole 750 MHz; Type: D750V3; SN: 1013

Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: H06T09N1_0824 Medium parameters used: $f = 750$ MHz; $\sigma = 0.902$ S/m; $\epsilon_r = 41.579$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7736; ConvF(10.21, 10.21, 10.21) @ 750 MHz; Calibrated: 2022/5/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2022/6/1
- 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 (61x81x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.552 W/kg

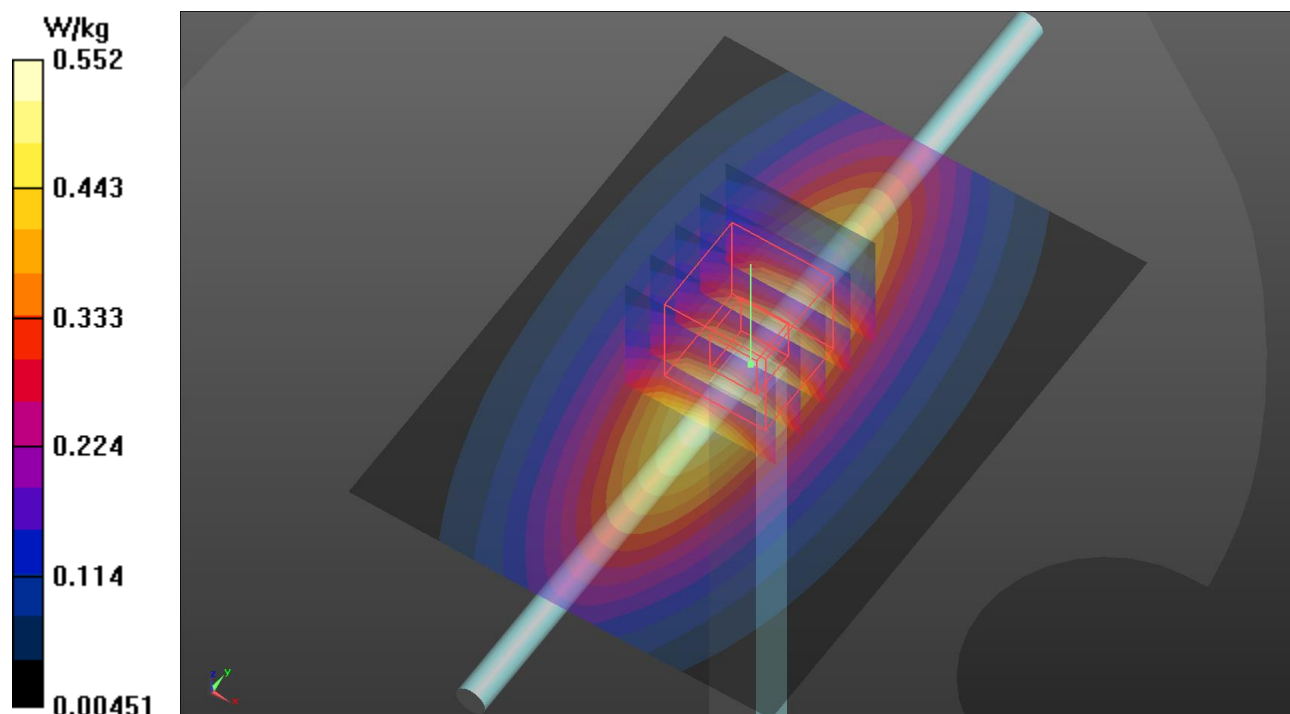
Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 26.11 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.598 W/kg

SAR(1 g) = 0.416 W/kg; SAR(10 g) = 0.280 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.544 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/8/24

S03 System Check_H2450_220824

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

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

Medium: H19T27N1_0824 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.806$ S/m; $\epsilon_r = 38.078$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7736; ConvF(8.12, 8.12, 8.12) @ 2450 MHz; Calibrated: 2022/5/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2022/6/1
- 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 (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 4.12 W/kg

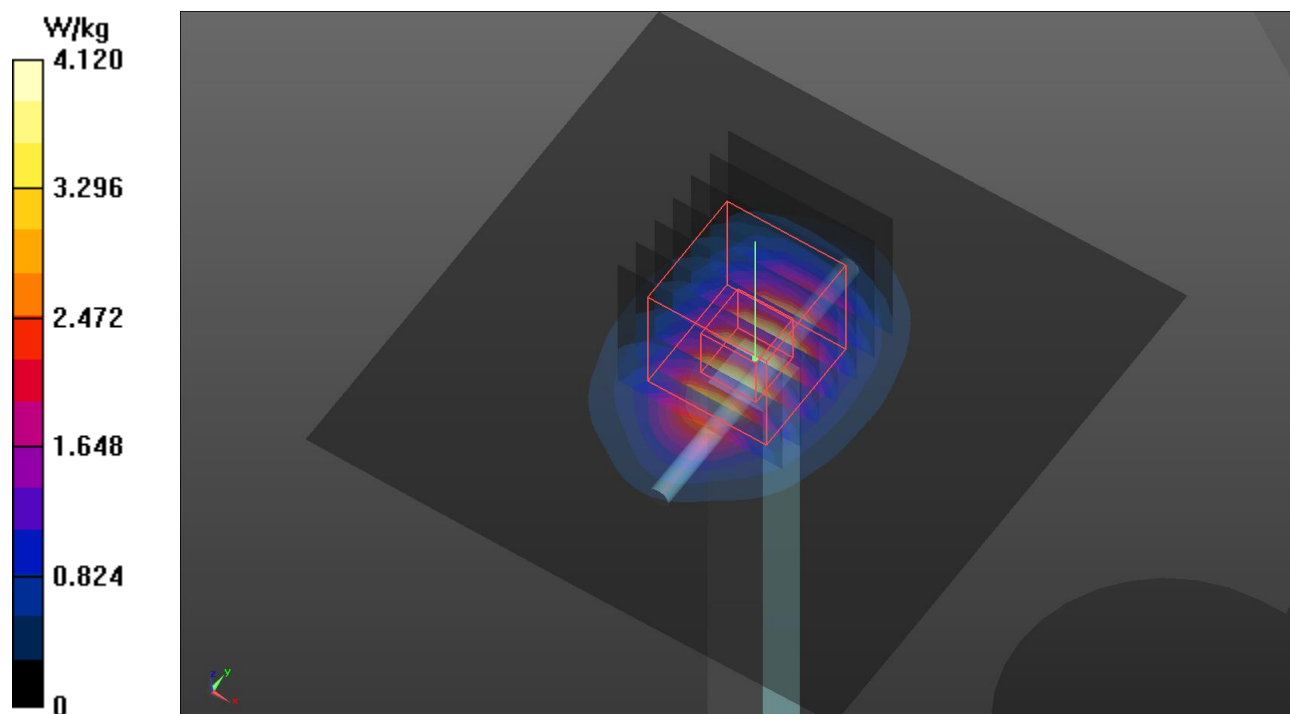
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 49.09 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 5.18 W/kg

SAR(1 g) = 2.42 W/kg; SAR(10 g) = 1.15 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 4.09 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/08/17

S04 System Check_H2450_220817

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

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

Medium: H19T27N1_0817 Medium parameters used (interpolated): $f = 2450$ MHz; $\sigma = 1.848$ S/m; $\epsilon_r = 37.854$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C ; Liquid Temperature : 23.0°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(7.98, 7.98, 7.98) @ 2450 MHz; Calibrated: 2022/01/25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2022/01/19
- Phantom: Twin SAM Phantom_1885; Type: QD000P40CD;
- 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) = 4.14 W/kg

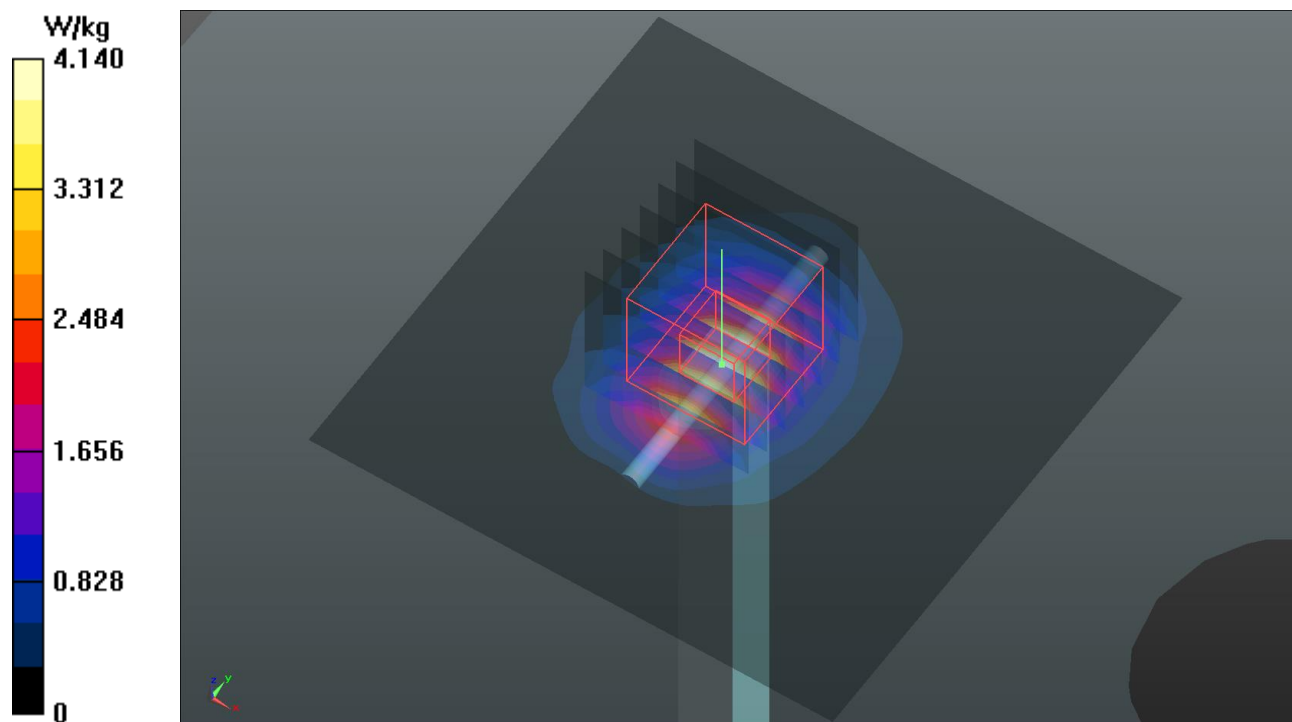
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 46.61 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 5.44 W/kg

SAR(1 g) = 2.50 W/kg; SAR(10 g) = 1.19 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 4.32 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/8/24

S05 System Check_H1750_220824

DUT: Dipole 1750 MHz; Type: D1750V2; SN: 1055

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: H16T20N1_0824 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.371$ S/m; $\epsilon_r = 39.115$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7736; ConvF(8.71, 8.71, 8.71) @ 1750 MHz; Calibrated: 2022/5/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2022/6/1
- 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 (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 2.78 W/kg

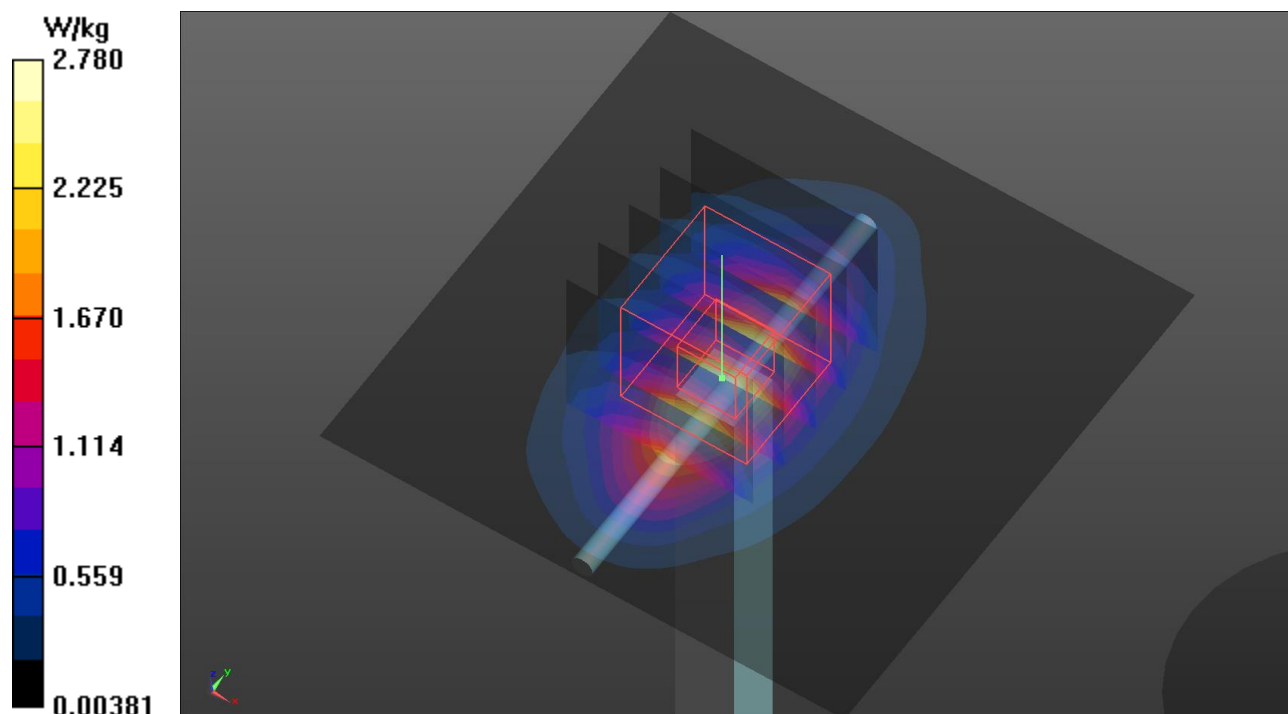
Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 44.22 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 3.39 W/kg

SAR(1 g) = 1.73 W/kg; SAR(10 g) = 0.912 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 2.77 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/8/24

S06 System Check_H750_220824

DUT: Dipole 750 MHz; Type: D750V3; SN: 1013

Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: H06T09N1_0824 Medium parameters used: $f = 750$ MHz; $\sigma = 0.902$ S/m; $\epsilon_r = 41.579$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7736; ConvF(10.21, 10.21, 10.21) @ 750 MHz; Calibrated: 2022/5/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2022/6/1
- 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 (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.552 W/kg

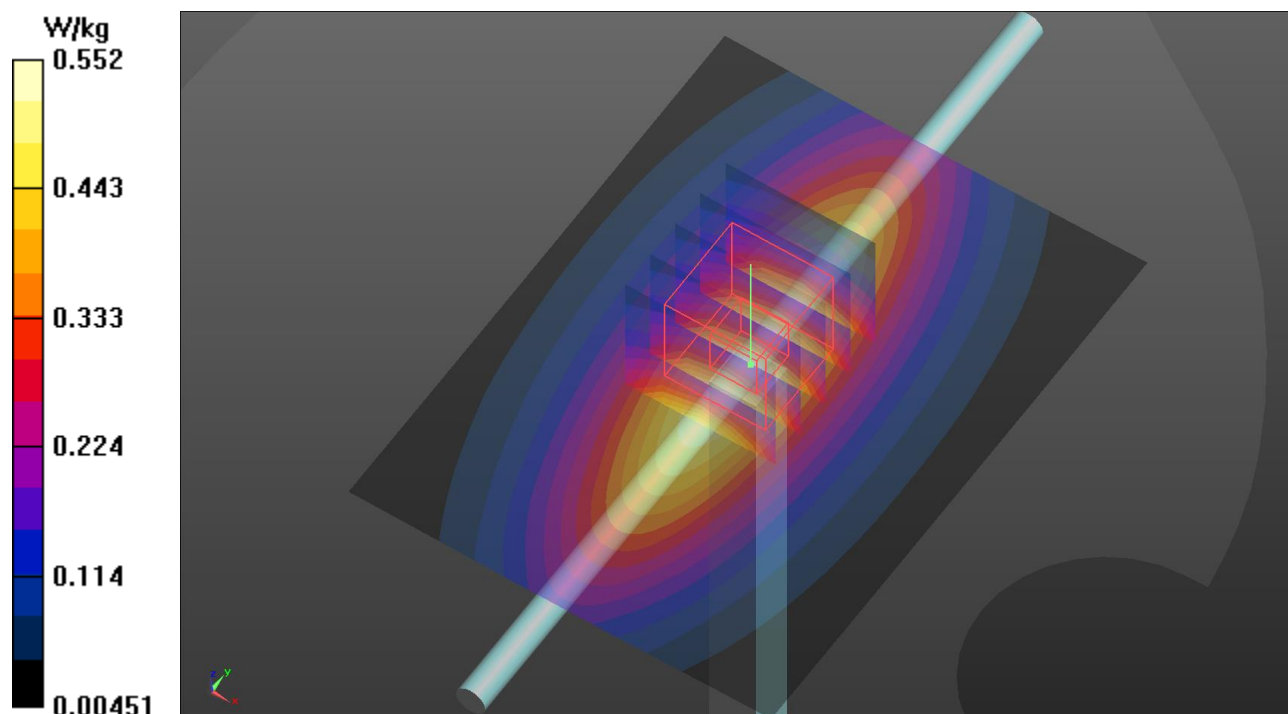
Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.11 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.598 W/kg

SAR(1 g) = 0.416 W/kg; SAR(10 g) = 0.280 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.544 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/8/24

S07 System Check_H2450_220824

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

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

Medium: H19T27N1_0824 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.806$ S/m; $\epsilon_r = 38.078$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7736; ConvF(8.12, 8.12, 8.12) @ 2450 MHz; Calibrated: 2022/5/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2022/6/1
- 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 (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 4.12 W/kg

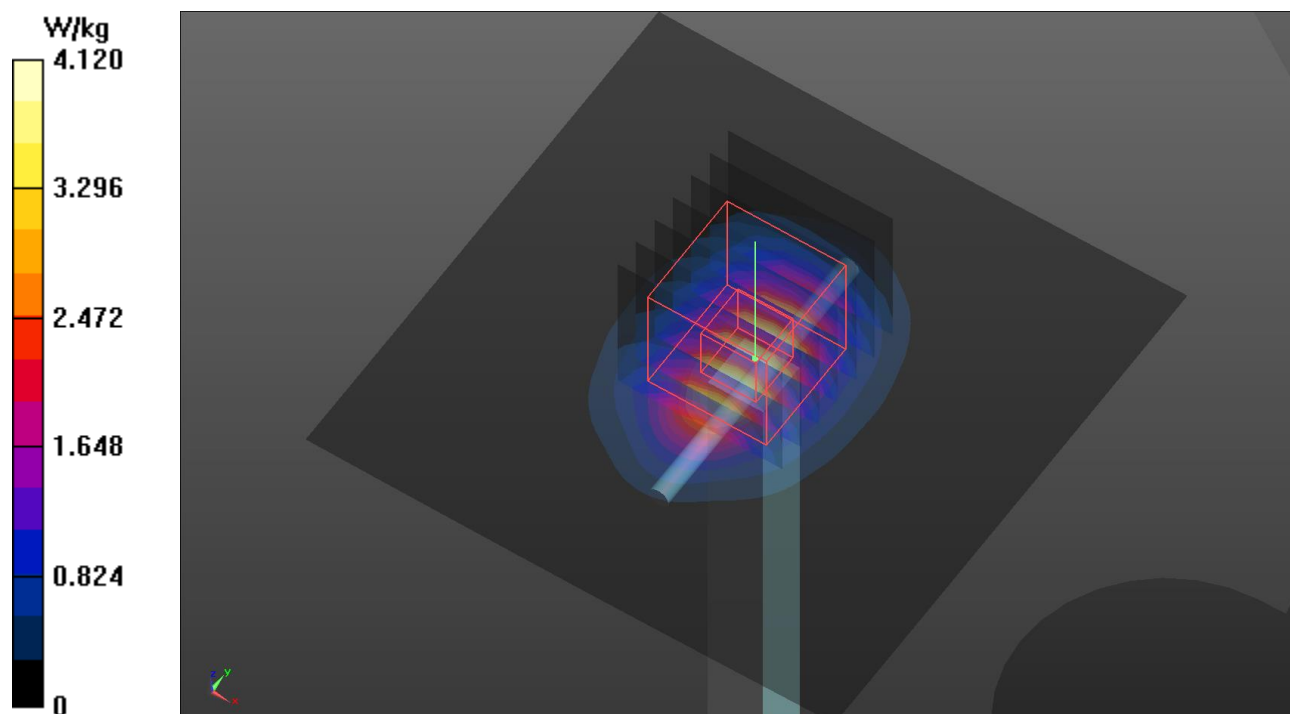
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 49.09 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 5.18 W/kg

SAR(1 g) = 2.42 W/kg; SAR(10 g) = 1.15 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 4.09 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/08/17

S08 System Check_H2450_220817

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

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

Medium: H19T27N1_0817 Medium parameters used (interpolated): $f = 2450$ MHz; $\sigma = 1.848$ S/m; $\epsilon_r = 37.854$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C ; Liquid Temperature : 23.0°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(7.98, 7.98, 7.98) @ 2450 MHz; Calibrated: 2022/01/25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2022/01/19
- Phantom: Twin SAM Phantom_1885; Type: QD000P40CD;
- 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) = 4.14 W/kg

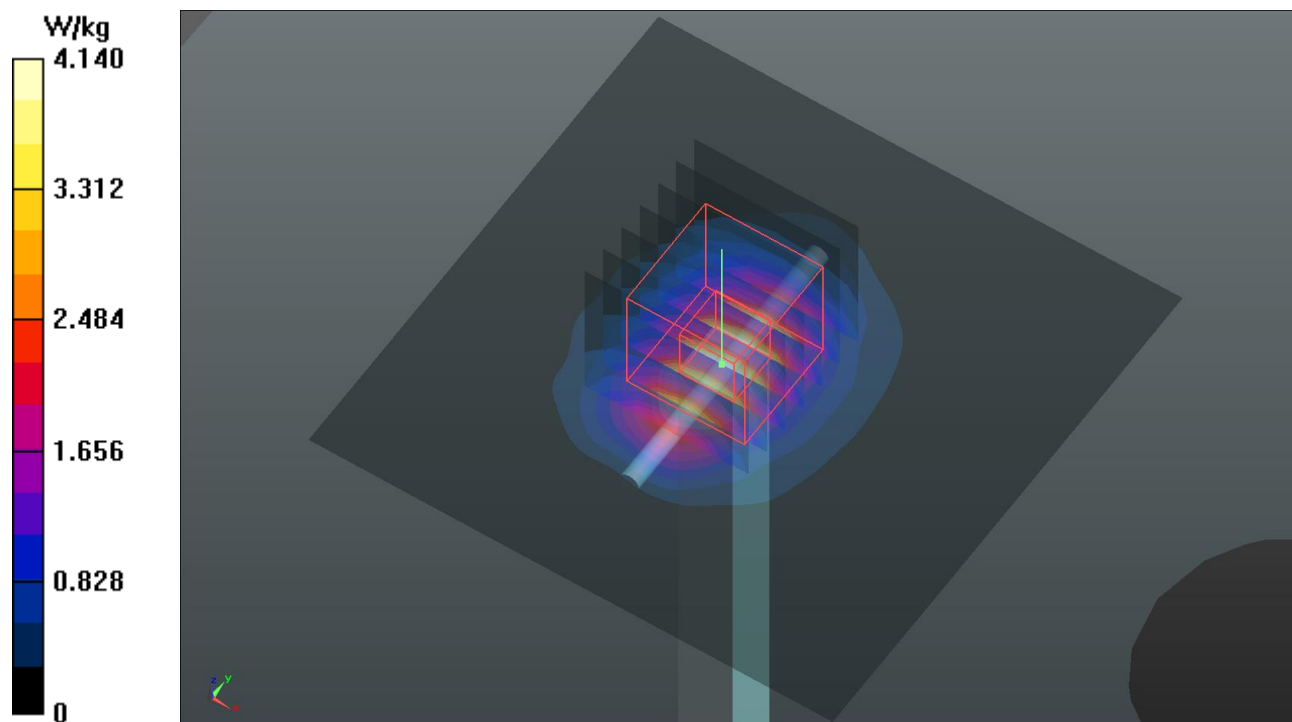
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 46.61 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 5.44 W/kg

SAR(1 g) = 2.50 W/kg; SAR(10 g) = 1.19 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 4.32 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 System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/08/24

P01 LTE 4_QPSK20M_Front Face_10mm_Ch20050_1RB_OS0

DUT: BCKT-WTW-P22080510

Communication System: UID 10169 - CAE, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 1720 MHz; Duty Cycle: 1:3.74

Medium: H16T20N1_0824 Medium parameters used: $f = 1720$ MHz; $\sigma = 1.304$ S/m; $\epsilon_r = 38.828$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7472; ConvF(8.8, 8.8, 8.8) @ 1720 MHz; Calibrated: 2022/05/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2022/02/23
- 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 (51x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.60 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 34.74 V/m; Power Drift = 0.16 dB

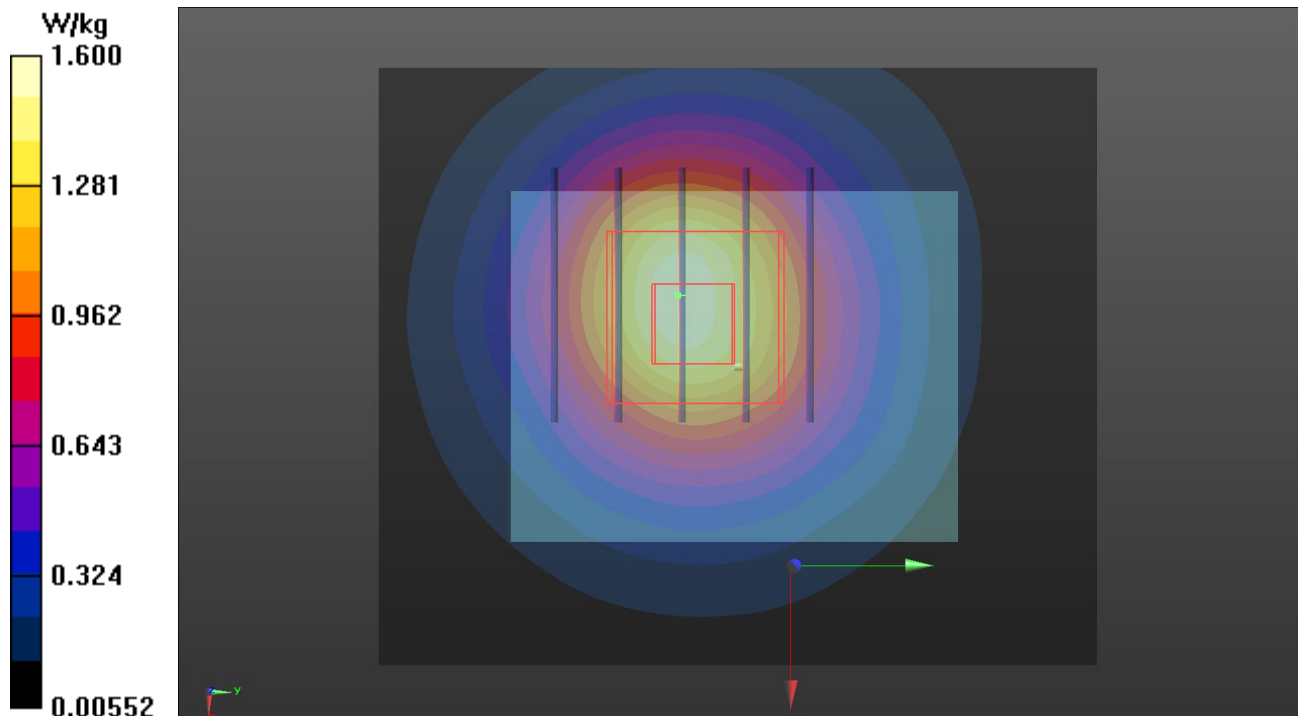
Peak SAR (extrapolated) = 1.95 W/kg

SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.701 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 13.8 mm

Ratio of SAR at M2 to SAR at M1 = 61.6%

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



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/8/24

P02 LTE 13_QPSK10M_Front Face_10mm_Ch23230_1RB_OS0

DUT: BCKT-WTW-P22080510

Communication System: UID 10175 - CAG, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 782 MHz; Duty Cycle: 1:3.74

Medium: H06T09N1_0824 Medium parameters used: $f = 782$ MHz; $\sigma = 0.913$ S/m; $\epsilon_r = 41.471$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7736; ConvF(10.21, 10.21, 10.21) @ 782 MHz; Calibrated: 2022/5/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2022/6/1
- 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 (51x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.700 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 29.11 V/m; Power Drift = 0.08 dB

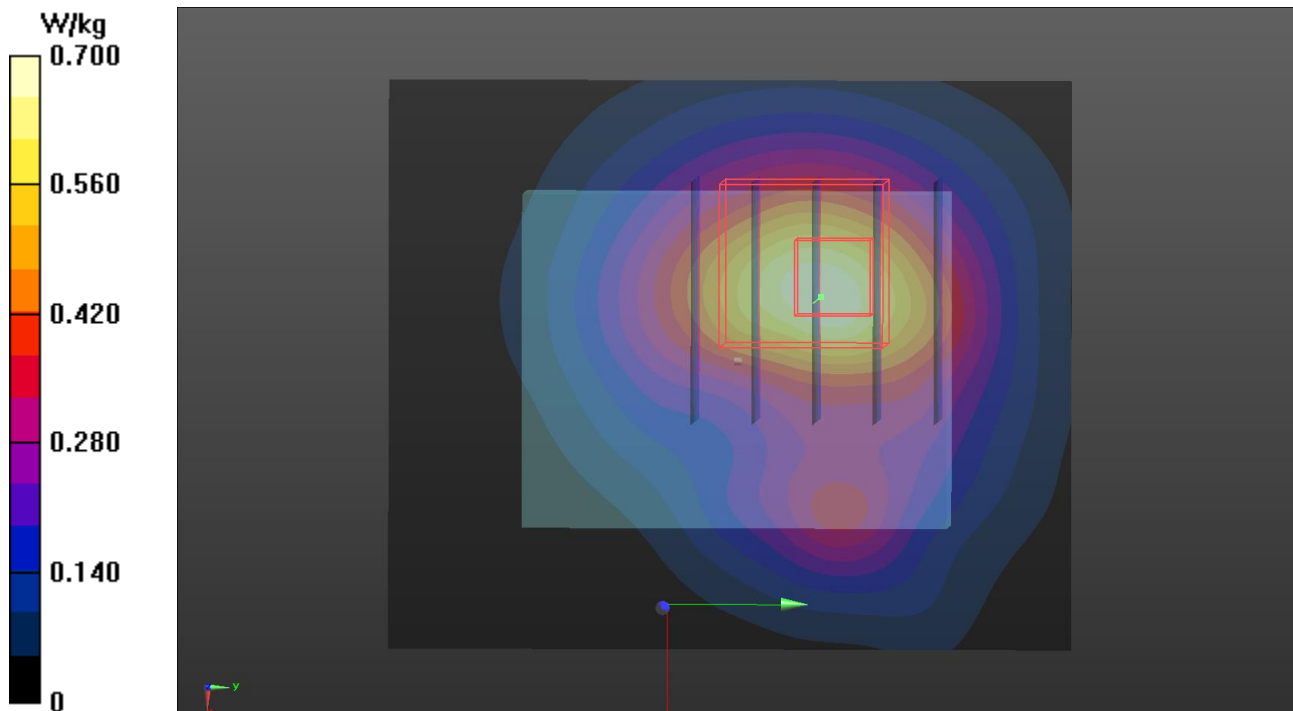
Peak SAR (extrapolated) = 0.917 W/kg

SAR(1 g) = 0.454 W/kg; SAR(10 g) = 0.243 W/kg (SAR corrected for target medium)

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

Ratio of SAR at M2 to SAR at M1 = 50.2%

Maximum value of SAR (measured) = 0.718 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/8/24

P03 WLAN2.4G_802.11b_Front Face_10mm_Ch1

DUT: BCKT-WTW-P22080510

Communication System: UID 10012 - CAB, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps); Frequency: 2412 MHz; Duty Cycle: 1:1.03

Medium: H19T27N1_0824 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.778$ S/m; $\epsilon_r = 38.138$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7736; ConvF(8.12, 8.12, 8.12) @ 2412 MHz; Calibrated: 2022/5/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2022/6/1
- 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 (71x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.431 W/kg

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

Reference Value = 14.77 V/m; Power Drift = -0.17 dB

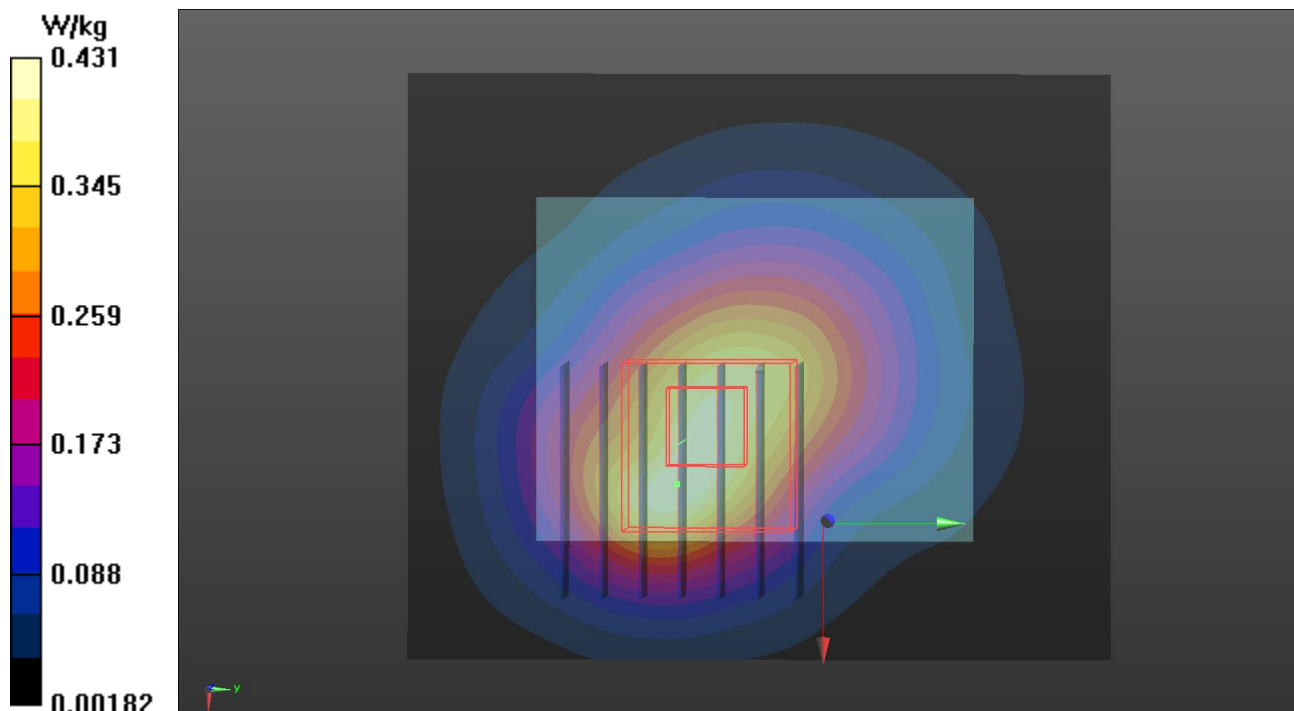
Peak SAR (extrapolated) = 0.495 W/kg

SAR(1 g) = 0.244 W/kg; SAR(10 g) = 0.134 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 14.1 mm

Ratio of SAR at M2 to SAR at M1 = 48.8%

Maximum value of SAR (measured) = 0.400 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/08/17

P04 BT_BDR_Front Face_10mm_Ch0

DUT: BCKT-WTW-P22080510

Communication System: UID 10032 - CAA, IEEE 802.15.1 Bluetooth (GFSK, DH5); Frequency: 2402 MHz; Duty Cycle: 1:1.3

Medium: H19T27N1_0817 Medium parameters used (interpolated): $f = 2402$ MHz; $\sigma = 1.801$ S/m; $\epsilon_r = 38.007$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C ; Liquid Temperature : 23.0°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(7.98, 7.98, 7.98) @ 2402 MHz; Calibrated: 2022/01/25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2022/01/19
- Phantom: Twin SAM Phantom_1885; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (71x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0862 W/kg

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

Reference Value = 5.646 V/m; Power Drift = -0.09 dB

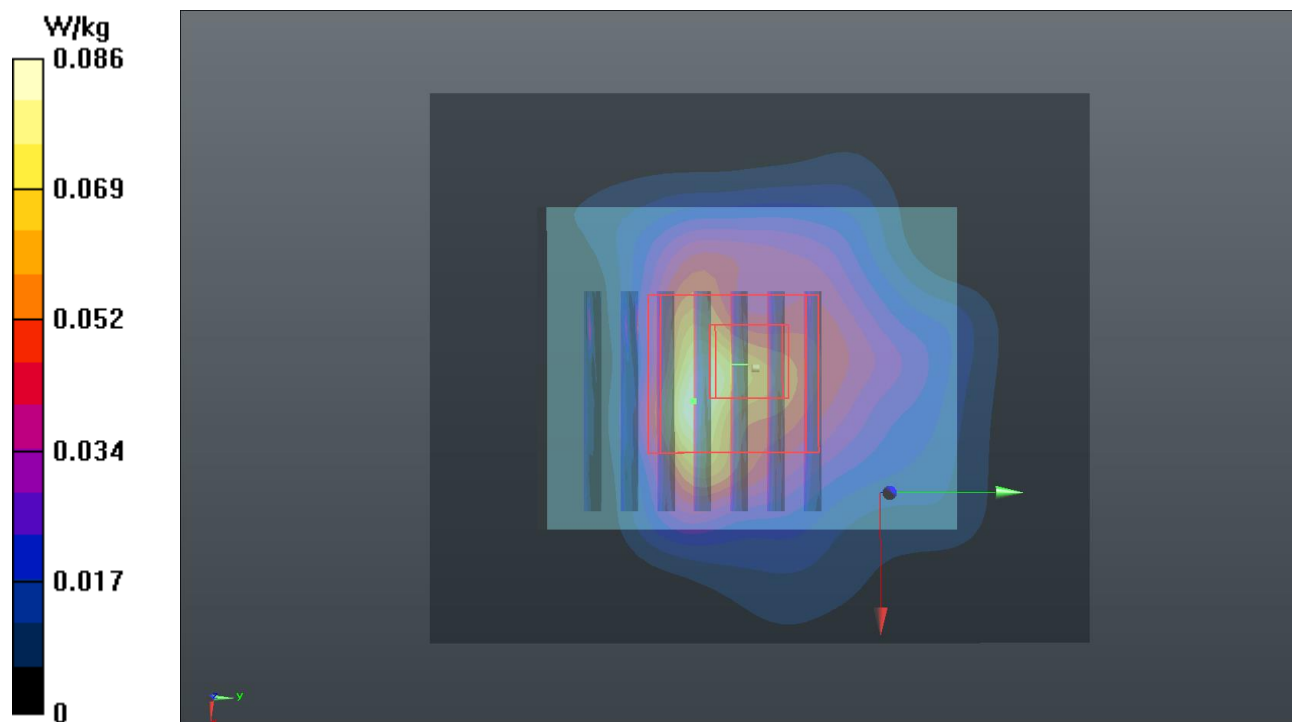
Peak SAR (extrapolated) = 0.109 W/kg

SAR(1 g) = 0.037 W/kg; SAR(10 g) = 0.021 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid (> 15 mm)

Ratio of SAR at M2 to SAR at M1 = 39.9%

Maximum value of SAR (measured) = 0.0843 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/8/24

P05 LTE 4_QPSK20M_Rear Face_0mm_Ch20050_1RB_OS0

DUT: BCKT-WTW-P22080510

Communication System: UID 10169 - CAE, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 1720 MHz; Duty Cycle: 1:3.74

Medium: H16T20N1_0824 Medium parameters used: $f = 1720$ MHz; $\sigma = 1.356$ S/m; $\epsilon_r = 39.176$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7736; ConvF(8.71, 8.71, 8.71) @ 1720 MHz; Calibrated: 2022/5/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2022/6/1
- 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 (51x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 4.07 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 49.60 V/m; Power Drift = 0.18 dB

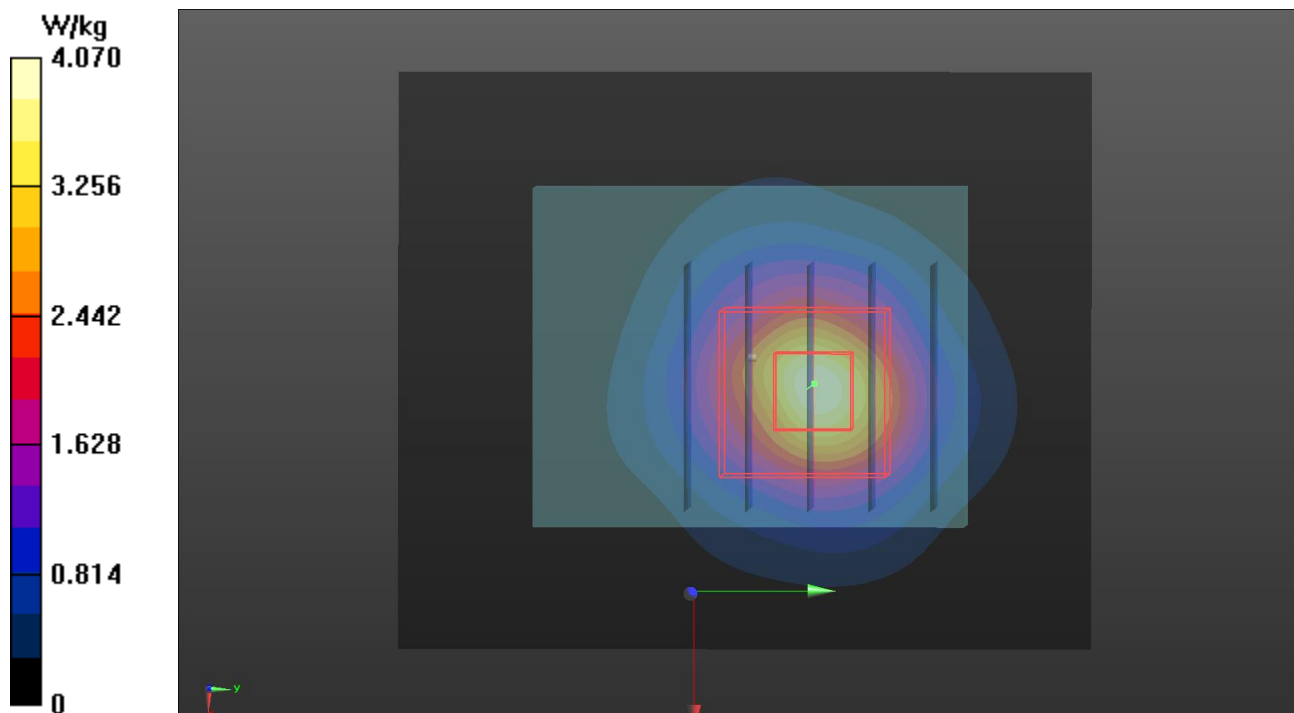
Peak SAR (extrapolated) = 4.17 W/kg

SAR(1 g) = 2.15 W/kg; SAR(10 g) = 1.14 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 11.3 mm

Ratio of SAR at M2 to SAR at M1 = 55.7%

Maximum value of SAR (measured) = 3.30 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/8/24

P06 LTE 13_QPSK10M_Rear Face_0mm_Ch23230_1RB_OS0

DUT: BCKT-WTW-P22080510

Communication System: UID 10175 - CAG, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 782 MHz; Duty Cycle: 1:3.74

Medium: H06T09N1_0824 Medium parameters used: $f = 782$ MHz; $\sigma = 0.913$ S/m; $\epsilon_r = 41.471$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7736; ConvF(10.21, 10.21, 10.21) @ 782 MHz; Calibrated: 2022/5/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2022/6/1
- 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 (51x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.743 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 30.31 V/m; Power Drift = -0.08 dB

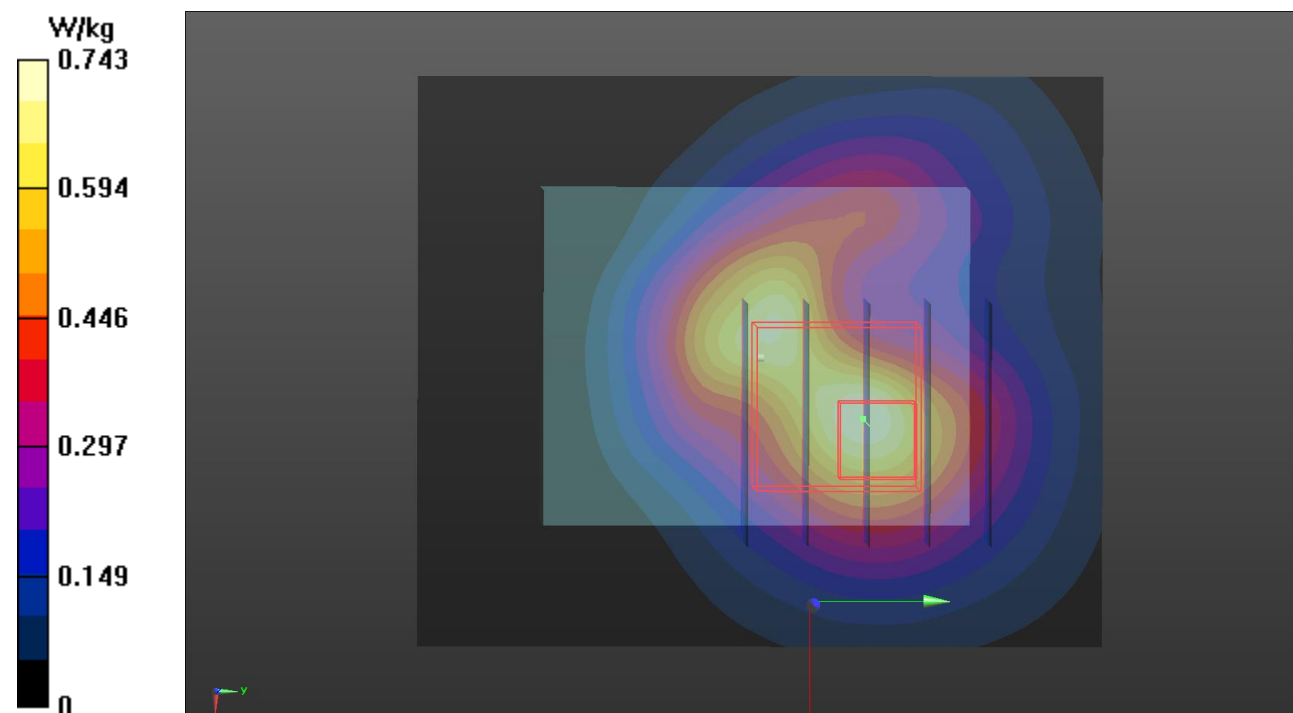
Peak SAR (extrapolated) = 0.875 W/kg

SAR(1 g) = 0.456 W/kg; SAR(10 g) = 0.255 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 11.5 mm

Ratio of SAR at M2 to SAR at M1 = 53.4%

Maximum value of SAR (measured) = 0.709 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/8/24

P07 WLAN2.4G_802.11b_Rear Face_0mm_Ch1

DUT: BCKT-WTW-P22080510

Communication System: UID 10012 - CAB, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps); Frequency: 2412 MHz; Duty Cycle: 1:1.03

Medium: H19T27N1_0824 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.778$ S/m; $\epsilon_r = 38.138$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7736; ConvF(8.12, 8.12, 8.12) @ 2412 MHz; Calibrated: 2022/5/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2022/6/1
- 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 (71x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 2.19 W/kg

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

Reference Value = 33.14 V/m; Power Drift = -0.15 dB

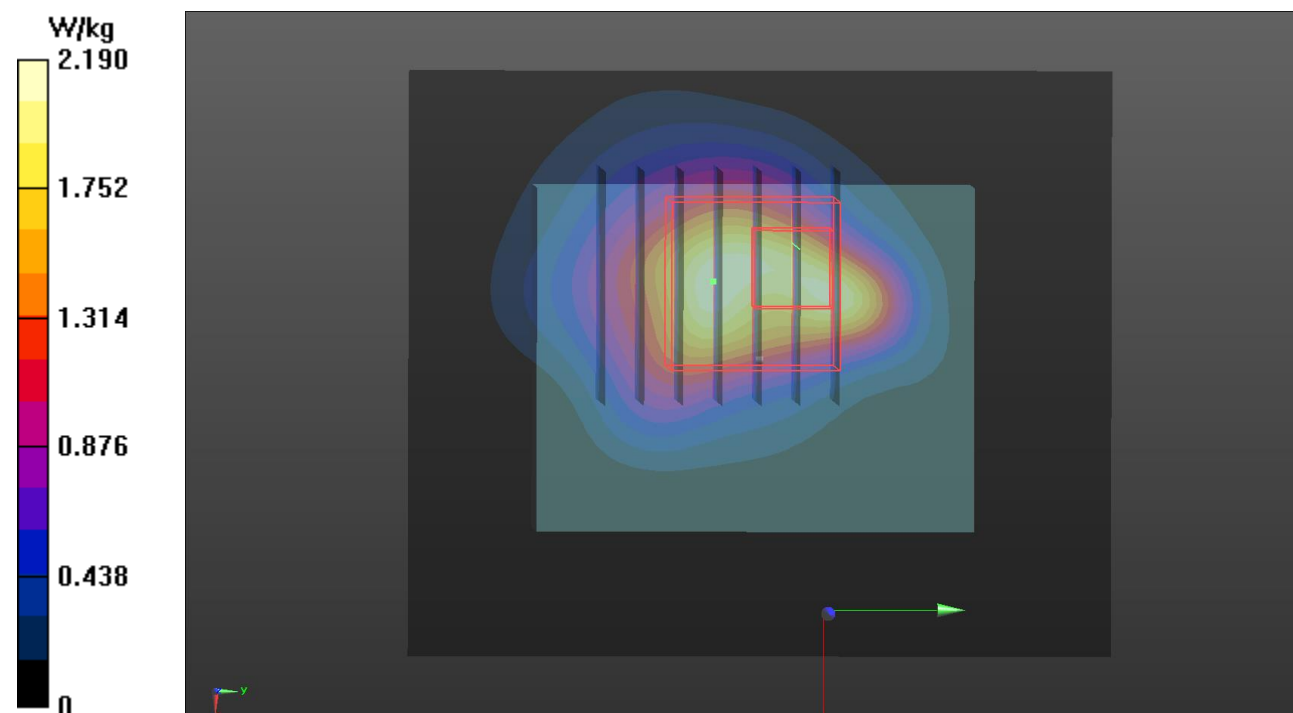
Peak SAR (extrapolated) = 2.78 W/kg

SAR(1 g) = 1.31 W/kg; SAR(10 g) = 0.581 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 5.8 mm

Ratio of SAR at M2 to SAR at M1 = 46.2%

Maximum value of SAR (measured) = 2.33 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/08/17

P08 BT_BDR_Rear Face_0mm_Ch0

DUT: BCKT-WTW-P22080510

Communication System: UID 10032 - CAA, IEEE 802.15.1 Bluetooth (GFSK, DH5); Frequency: 2402 MHz; Duty Cycle: 1:1.3

Medium: H19T27N1_0817 Medium parameters used (interpolated): $f = 2402$ MHz; $\sigma = 1.801$ S/m; $\epsilon_r = 38.007$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C ; Liquid Temperature : 23.0°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(7.98, 7.98, 7.98) @ 2402 MHz; Calibrated: 2022/01/25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2022/01/19
- Phantom: Twin SAM Phantom_1885; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (71x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.429 W/kg

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

Reference Value = 1.408 V/m; Power Drift = 0.10 dB

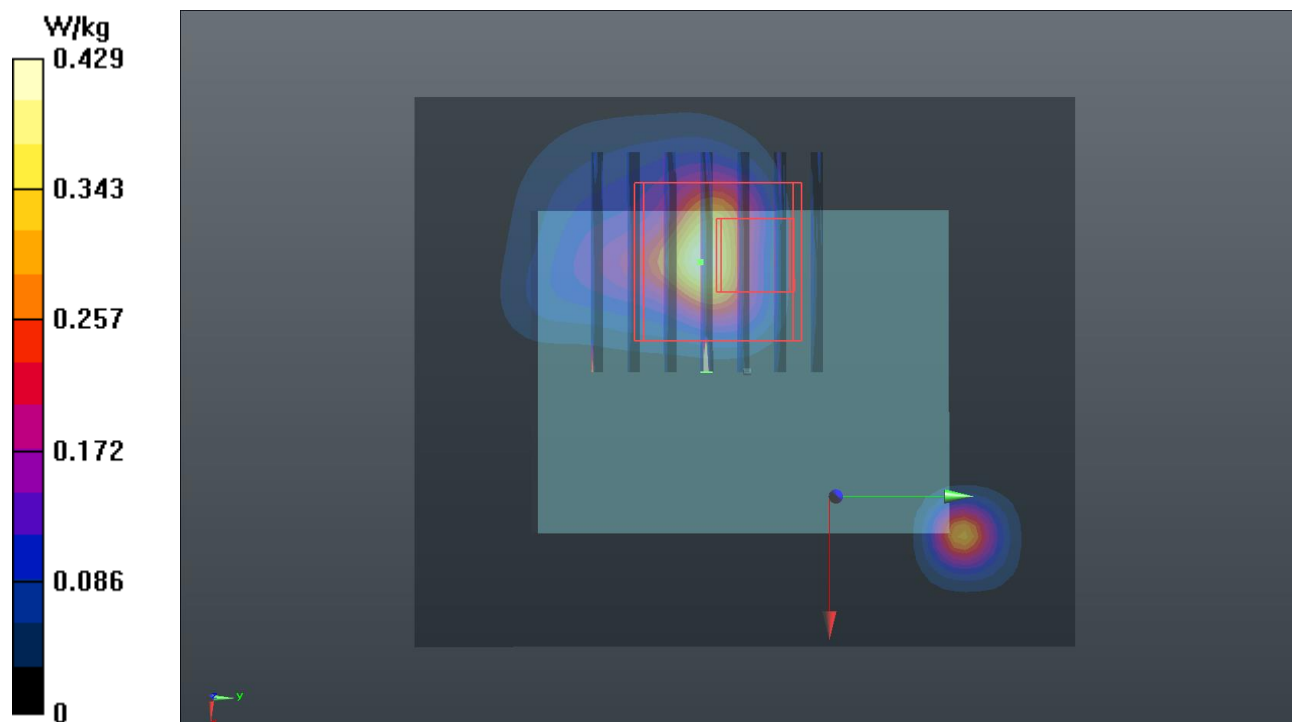
Peak SAR (extrapolated) = 1.20 W/kg

SAR(1 g) = 0.147 W/kg; SAR(10 g) = 0.064 W/kg (SAR corrected for target medium)

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

Ratio of SAR at M2 to SAR at M1 = 40.3%

Maximum value of SAR (measured) = 1.20 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 (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 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	1750	23.1	1.333	38.7	1.37	40.1	-2.70	-3.49	Pass	Pass	Pass	N/A	N/A	N/A	Aug. 24, 2022	1750	35.80	1.87	37.31	4.22	1055	7472	1431	17
S02	750	23.2	0.902	41.579	0.9	42	0.22	-1.00	Pass	Pass	Pass	N/A	N/A	N/A	Aug. 24, 2022	750	8.56	0.416	8.30	-3.03	1013	7736	579	17
S03	2450	23.2	1.806	38.078	1.8	39.2	0.33	-2.86	Pass	Pass	Pass	OFDM	N/A	Pass	Aug. 24, 2022	2450	52.60	2.42	48.29	-8.20	737	7736	579	17
S04	2450	23	1.848	37.854	1.8	39.2	2.67	-3.43	Pass	Pass	Pass	OFDM	N/A	Pass	Aug. 17, 2022	2450	52.60	2.5	49.88	-5.17	737	3971	1277	17

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 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)
S05	1750	23.2	1.371	39.115	1.37	40.1	0.07	-2.46	Pass	Pass	Pass	N/A	N/A	N/A	Aug. 24, 2022	1750	18.60	0.912	18.20	-2.17	1055	7736	579	17
S06	750	23.2	0.902	41.579	0.9	42	0.22	-1.00	Pass	Pass	Pass	N/A	N/A	N/A	Aug. 24, 2022	750	5.62	0.28	5.59	-0.59	1013	7736	579	17
S07	2450	23.2	1.806	38.078	1.8	39.2	0.33	-2.86	Pass	Pass	Pass	OFDM	N/A	Pass	Aug. 24, 2022	2450	23.90	1.15	22.95	-3.99	737	7736	579	17
S08	2450	23	1.848	37.854	1.8	39.2	2.67	-3.43	Pass	Pass	Pass	OFDM	N/A	Pass	Aug. 17, 2022	2450	23.90	1.19	23.74	-0.65	737	3971	1277	17

Annex D. Maximum Target Conducted Power

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

LTE Max. Tune-up Power (Full)		
Mode	QPSK	16QAM
	Maximum Target Power	Maximum Target Power
LTE 4	23.0	22.0
LTE 13	24.0	23.0

WLAN Tune-up Power (Full)			
WLAN 2.4GHz			
Mode	Channel	Frequency	SISO Ant 0 Max Tune up
802.11b	1	2412	20.0
	6	2437	20.0
	11	2462	20.0
802.11g	1	2412	16.5
	6	2437	18.0
	11	2462	14.5
802.11n HT20	1	2412	17.0
	6	2437	17.0
	11	2462	14.0

WLAN Tune-up Power (Full)			
Bluetooth			
Mode	Channel	Frequency	Ant 0 Max Tune-up
BDR	0	2402	11.0
	39	2441	11.0
	78	2480	11.0
LE	0	2402	2.5
	19	2440	2.5
	39	2480	2.5

Annex E. Measured Conducted Power Result

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

LTE Conducted Power (Full)							
LTE Band 4							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		20050	20175	20300	
		Frequency (MHz)		1720	1732.5	1745	
20M	QPSK	1	0	22.95	22.99	22.98	0
		1	50	22.66	22.97	22.94	0
		1	99	22.38	22.81	22.81	0
		50	0	21.89	21.91	21.71	1
		50	25	21.75	21.83	21.67	1
		50	50	21.63	21.72	21.66	1
		100	0	21.61	21.68	21.46	1
20M	16QAM	1	0	21.38	21.87	21.66	1
		1	50	21.86	21.75	21.45	1
		1	99	21.71	21.60	21.51	1
		50	0				2
		50	25				2
		50	50				2
		100	0				2
BW	MCS Index	Channel		20025	20175	20325	3GPP MPR
		Frequency (MHz)		1717.5	1732.5	1747.5	
15M	QPSK	1	0	22.90	22.93	22.94	0
		1	37	22.64	22.96	22.86	0
		1	74	22.32	22.76	22.80	0
		36	0	21.89	21.91	21.65	1
		36	19	21.74	21.80	21.61	1
		36	39	21.56	21.71	21.61	1
		75	0	21.53	21.59	21.37	1
15M	16QAM	1	0	21.35	21.81	21.62	1
		1	37	21.81	21.67	21.39	1
		1	74	21.61	21.57	21.43	1
		36	0				2
		36	19				2
		36	39				2
		75	0				2

LTE Conducted Power (Full)							
LTE Band 4							
BW	MCS Index	Channel		20000	20175	20350	3GPP MPR
		Frequency (MHz)		1715	1732.5	1750	
10M	QPSK	1	0	22.79	22.90	22.85	0
		1	24	22.55	22.88	22.74	0
		1	49	22.21	22.71	22.74	0
		25	0	21.83	21.89	21.63	1
		25	12	21.60	21.79	21.49	1
		25	25	21.56	21.68	21.47	1
		50	0	21.49	21.55	21.37	1
10M	16QAM	1	0	21.30	21.81	21.58	1
		1	24	21.73	21.59	21.25	1
		1	49	21.58	21.53	21.32	1
		25	0	20.86	20.79	20.76	2
		25	12	20.79	20.83	20.69	2
		25	25	20.76	20.69	20.67	2
		50	0				2
BW	MCS Index	Channel		19975	20175	20375	3GPP MPR
		Frequency (MHz)		1712.5	1732.5	1752.5	
5M	QPSK	1	0	22.89	22.80	22.82	0
		1	12	22.50	22.96	22.86	0
		1	24	22.25	22.67	22.65	0
		12	0	21.83	21.88	21.59	1
		12	6	21.73	21.74	21.56	1
		12	13	21.44	21.64	21.47	1
		25	0	21.41	21.54	21.26	1
5M	16QAM	1	0	21.27	21.73	21.62	1
		1	12	21.73	21.58	21.28	1
		1	24	21.53	21.46	21.28	1
		12	0	20.78	20.72	20.68	2
		12	6	20.75	20.74	20.71	2
		12	13	20.75	20.69	20.54	2
		25	0	20.76	20.68	20.60	2

LTE Conducted Power (Full)							
LTE Band 4							
BW	MCS Index	Channel		19965	20175	20385	3GPP MPR
		Frequency (MHz)		1711.5	1732.5	1753.5	
3M	QPSK	1	0	22.78	22.90	22.72	0
		1	7	22.49	22.86	22.63	0
		1	14	22.25	22.63	22.74	0
		8	0	21.87	21.89	21.59	1
		8	3	21.63	21.67	21.43	1
		8	7	21.44	21.70	21.45	1
		15	0	21.45	21.55	21.31	1
3M	16QAM	1	0	21.28	21.70	21.57	1
		1	7	21.72	21.64	21.26	1
		1	14	21.56	21.57	21.33	1
		8	0	20.74	20.87	20.72	2
		8	3	20.85	20.77	20.71	2
		8	7	20.70	20.68	20.68	2
		15	0	20.75	20.68	20.53	2
BW	MCS Index	Channel		19957	20175	20393	3GPP MPR
		Frequency (MHz)		1710.7	1732.5	1754.3	
1.4M	QPSK	1	0	22.81	22.90	22.80	0
		1	2	22.57	22.96	22.76	0
		1	5	22.22	22.70	22.76	0
		3	0	22.82	22.83	22.58	0
		3	1	22.71	22.65	22.56	0
		3	3	22.45	22.56	22.51	0
		6	0	21.48	21.45	21.37	1
1.4M	16QAM	1	0	21.29	21.67	21.52	1
		1	2	21.66	21.55	21.24	1
		1	5	21.52	21.56	21.38	1
		3	0	21.71	21.84	21.62	1
		3	1	21.78	21.74	21.70	1
		3	3	21.71	21.69	21.68	1
		6	0	20.64	20.68	20.62	2

LTE Conducted Power (Full)							
LTE Band 13							
BW	MCS Index	RB Size	RB Offset		Mid		3GPP MPR (dB)
		Channel			23230		
		Frequency (MHz)			782		
10M	QPSK	1	0		23.23		0
		1	24		23.17		0
		1	49		22.84		0
		25	0		22.17		1
		25	12		22.06		1
		25	25		21.96		1
		50	0		21.93		1
10M	16QAM	1	0		22.08		1
		1	24		21.89		1
		1	49		21.53		1
		25	0		21.35		2
		25	12		21.26		2
		25	25		21.01		2
		50	0				2
BW	MCS Index	Channel		23205	23230	23255	3GPP MPR
		Frequency (MHz)		779.5	782	784.5	
5M	QPSK	1	0	23.14	23.13	23.21	0
		1	12	23.10	23.11	23.11	0
		1	24	22.84	22.79	22.77	0
		12	0	22.07	22.07	22.10	1
		12	6	22.02	21.96	22.04	1
		12	13	21.92	21.96	21.86	1
		25	0	21.88	21.85	21.84	1
5M	16QAM	1	0	22.08	22.00	22.08	1
		1	12	21.82	21.79	21.82	1
		1	24	21.45	21.47	21.53	1
		12	0	21.26	21.35	21.32	2
		12	6	21.18	21.16	21.26	2
		12	13	21.00	20.95	20.96	2
		25	0	21.28	21.26	21.36	2

WLAN Conducted Power (Full)			
WLAN2.4GHz Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11b	1	2412	18.71
	6	2437	18.86
	11	2462	18.92
802.11g	1	2412	16.42
	6	2437	16.95
	11	2462	14.47
802.11n HT20	1	2412	15.82
	6	2437	15.97
	11	2462	13.7

WLAN Conducted Power (Full)			
Bluetooth Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
BDR	0	2402	9.71
	39	2441	9.32
	78	2480	9.49
LE	0	2402	1.81
	19	2440	0.57
	39	2480	1.21

Annex F. SAR Test Result

SAR Results for Face / Extremity Exposure Condition.

Note:

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

Face SAR Test Result

System & Position								SAR							
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	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)
	LTE 4	QPSK20M	Front Face	10	20175	1	0	-	1.00	23.00	22.99	1.00	0.13	0.931	0.93
	LTE 4	QPSK20M	Front Face	10	20175	50	0	-	1.00	22.00	21.91	1.02	0.05	0.719	0.73
	LTE 4	QPSK20M	Front Face	10	20175	100	0	-	1.00	22.00	21.68	1.08	0.12	0.645	0.70
1	LTE 4	QPSK20M	Front Face	10	20050	1	0	-	1.00	23.00	22.95	1.01	0.16	1.18	1.19
	LTE 4	QPSK20M	Front Face	10	20300	1	0	-	1.00	23.00	22.98	1.00	-0.1	1.08	1.08
	LTE 4	QPSK20M	Front Face	10	20050	1	0	-	1.00	23.00	22.95	1.01	0.02	1.11	1.12
2	LTE 13	QPSK10M	Front Face	10	23230	1	0	-	1.00	24.00	23.23	1.19	0.08	0.454	0.54
	LTE 13	QPSK10M	Front Face	10	23230	25	0	-	1.00	23.00	22.17	1.21	-0.04	0.312	0.38
	WLAN2.4G	802.11b	Front Face	10	11			97.38	1.03	20.00	18.92	1.28	-0.06	0.196	0.26
3	WLAN2.4G	802.11b	Front Face	10	1			97.38	1.03	20.00	18.71	1.35	-0.17	0.244	0.34
	WLAN2.4G	802.11b	Front Face	10	6			97.38	1.03	20.00	18.86	1.30	-0.15	0.141	0.19
4	BT	BDR	Front Face	10	0			76.77	1.30	11.00	9.71	1.35	-0.09	0.037	0.06
	BT	BDR	Front Face	10	39			76.77	1.30	11.00	9.32	1.47	0	<0.001	0.00
	BT	BDR	Front Face	10	78			76.77	1.30	11.00	9.49	1.42	0	<0.001	0.00

Extremity SAR Test Result															
System & Position								SAR							
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	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)
	LTE 4	QPSK20M	Rear Face	0	20175	1	0	-	1.00	23.00	22.99	1.00	0.06	0.88	0.88
	LTE 4	QPSK20M	Rear Face	0	20175	50	0	-	1.00	22.00	21.91	1.02	0.04	0.703	0.72
5	LTE 4	QPSK20M	Rear Face	0	20050	1	0	-	1.00	23.00	22.95	1.01	0.18	1.14	1.15
	LTE 4	QPSK20M	Rear Face	0	20300	1	0	-	1.00	23.00	22.98	1.00	0.17	0.996	1.00
6	LTE 13	QPSK10M	Rear Face	0	23230	1	0	-	1.00	24.00	23.23	1.19	-0.08	0.255	0.30
	LTE 13	QPSK10M	Rear Face	0	23230	25	0	-	1.00	23.00	22.17	1.21	-0.04	0.182	0.22
	WLAN2.4G	802.11b	Rear Face	0	11			97.38	1.03	20.00	18.92	1.28	0.1	0.4	0.53
7	WLAN2.4G	802.11b	Rear Face	0	1			97.38	1.03	20.00	18.71	1.35	-0.15	0.581	0.81
	WLAN2.4G	802.11b	Rear Face	0	6			97.38	1.03	20.00	18.86	1.30	-0.19	0.317	0.42
8	BT	BDR	Rear Face	0	0			76.77	1.30	11.00	9.71	1.35	0.1	0.064	0.11
	BT	BDR	Rear Face	0	39			76.77	1.30	11.00	9.32	1.47	-0.06	0.035	0.07
	BT	BDR	Rear Face	0	78			76.77	1.30	11.00	9.49	1.42	0.08	0.037	0.07

Annex G. SAR Measurement Variability

SAR repeated measurement are shown as below.

Repeat SAR							
Plot	Band	Mode	Test Position	Ch.	Original Measured SAR-1g (W/kg)	1st Repeated SAR-1g (W/kg)	L/S Ratio
R01	LTE 4	QPSK20M	Front Face	20050	1.18	1.11	1.06

Annex H. Analysis of Simultaneous Transmission SAR.

The analysis of simultaneous transmission SAR are shown as below.

<Possibilities of Simultaneous Transmission>

The simultaneous transmission possibilities for this device are listed as below.

Simultaneous TX Combination	Capable Transmit Configurations	Face / Extremity Exposure Condition
A	WWAN + BT	Yes

Simultaneous Transmission SAR Evaluation (Face)				
Band	Position	1	2	A(1+2)
		Max WWAN	Max BT Ant 0	Summing result 1g SAR W/kg
		1g SAR W/kg	1g SAR W/kg	
LTE 4	Front Face	1.19	0.06	1.25
LTE 13	Front Face	0.54	0.06	0.60

Simultaneous Transmission SAR Evaluation (Extremity)				
Band	Position	1	2	A(1+2)
		Max WWAN	BT Ant 0	Summimg result 10g SAR W/kg
		10g SAR W/kg	10g SAR W/kg	
LTE 4	Rear Face	1.15	0.11	1.26
LTE 13	Rear Face	0.30	0.11	0.41

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	D750V3	1013	Aug. 31, 2021	1 Year
System Validation Dipole	SPEAG	D1750V2	1055	Sep. 02, 2021	1 Year
System Validation Dipole	SPEAG	D2450V2	737	Aug. 26, 2021	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	3971	Jan. 25, 2022	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	7472	May. 27, 2022	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	7736	May. 30, 2022	1 Year
Data Acquisition Electronics	SPEAG	DAE3	579	Jun. 01, 2022	1 Year
Data Acquisition Electronics	SPEAG	DAE4	1277	Jan. 19, 2022	1 Year
Data Acquisition Electronics	SPEAG	DAE4	1431	Feb. 23, 2022	1 Year
Universal Radio Communication Tester	Anritsu	MT8821C	6201381727	Aug. 03, 2022	1 Year
Spectrum Analyzer	R&S	FSL6	102006	Apr. 13, 2022	1 Year
Thermometer	YFE	YF-160A	150601220	May. 26, 2022	1 Year
Dielectric Assessment Kit	SPEAG	DAKS-3.5	1092	May. 23, 2022	1 Year
Powersource1	SPEAG	SE_UMS_160 BA	4010	Jul. 25, 2022	1 Year

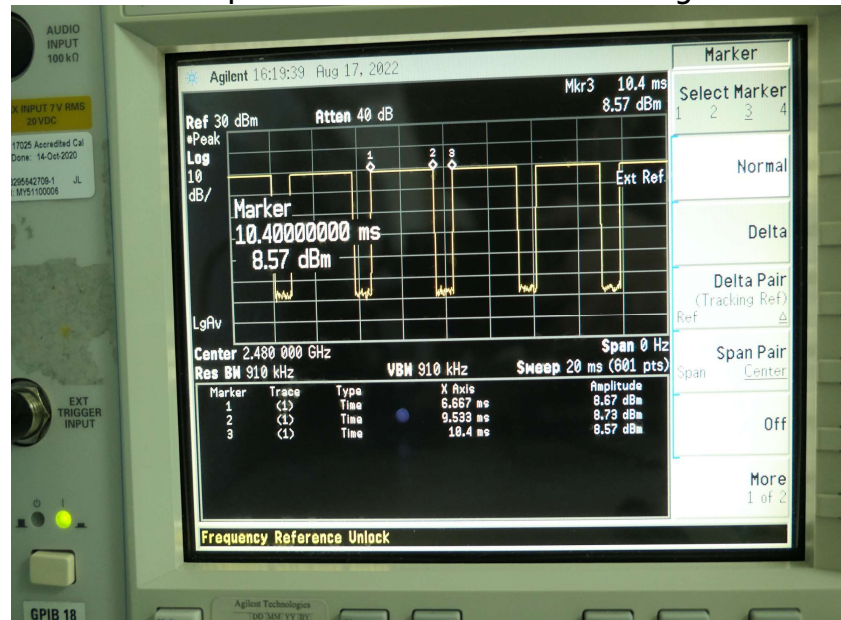
Annex K. Considerations Related to Bluetooth for Setup and Testing

This device has installed Bluetooth engineering testing software which can provide continuous transmitting RF signal. During Bluetooth SAR testing, this device was operated to transmit continuously at the maximum transmission duty with specified transmission mode, operating frequency, lowest data rate, and maximum output power.

The Bluetooth call box has been used during SAR measurement and the EUT was set to **DH5** mode at the maximum output power. Its duty factor was calculated as below and the measured SAR for Bluetooth would be scaled to the 100% transmission duty factor to determine compliance.

The duty factor of Bluetooth signal are shown as below.

<Time-domain plot for Bluetooth transmission signal>



Time-domain plot for Bluetooth transmission signal

The duty factor of Bluetooth signal has been calculated as following.

$$\text{Duty Factor} = \text{Pulse Width} / \text{Total Period} = (9.533 - 6.667) / (10.4 - 6.667) = 76.77\%$$