

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: 2022/07/30

S01 System Check_H835_220730

DUT: Dipole 835 MHz; Type: D835V2; SN: 4d121

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: H07T10N1_0730 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.915 \text{ S/m}$; $\epsilon_r = 40.603$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : $23.6 \text{ }^\circ\text{C}$; Liquid Temperature : $23.4 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(10.02, 10.02, 10.02) @ 835 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 (61x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.617 W/kg

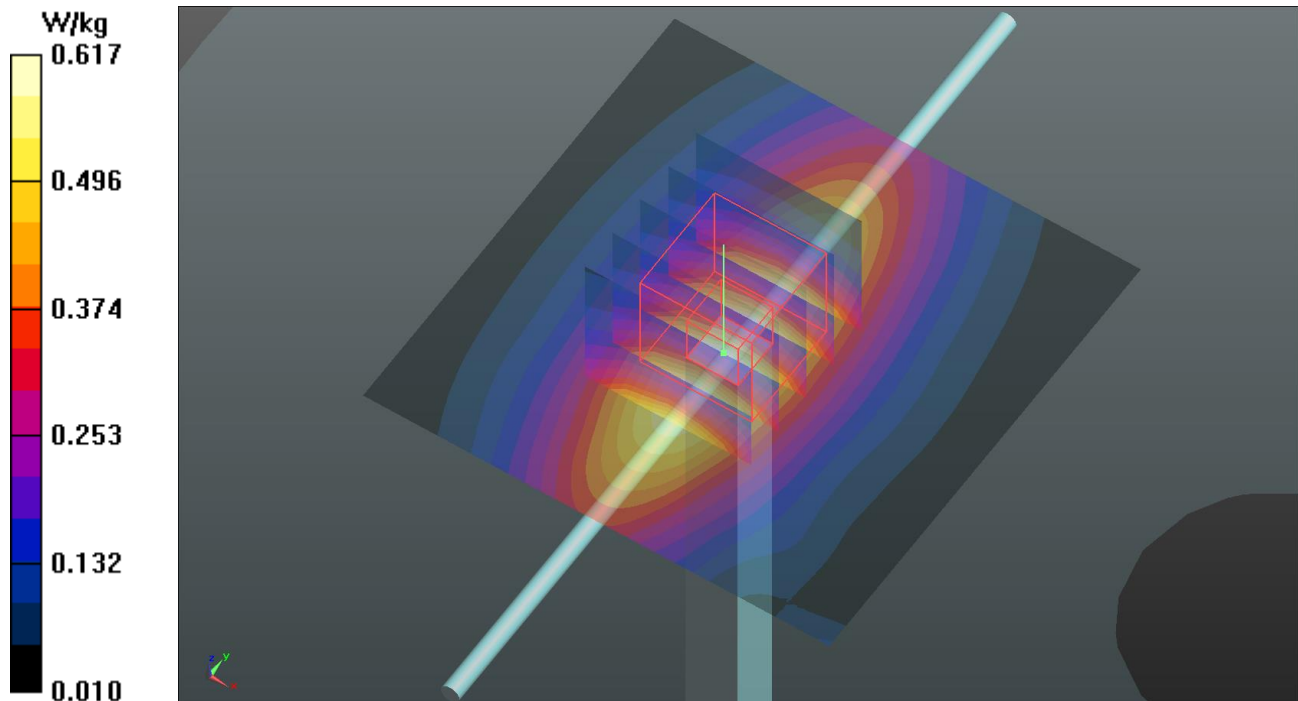
Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 26.95 V/m ; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.684 W/kg

SAR(1 g) = 0.453 W/kg ; SAR(10 g) = 0.296 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.611 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/07/28

S02 System Check_H1900_220728

DUT: Dipole 1900 MHz; Type: D1900V2; SN: 5d036

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: H16T20N1_0728 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.459$ S/m; $\epsilon_r = 38.999$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(8.33, 8.33, 8.33) @ 1900 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 (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.95 W/kg

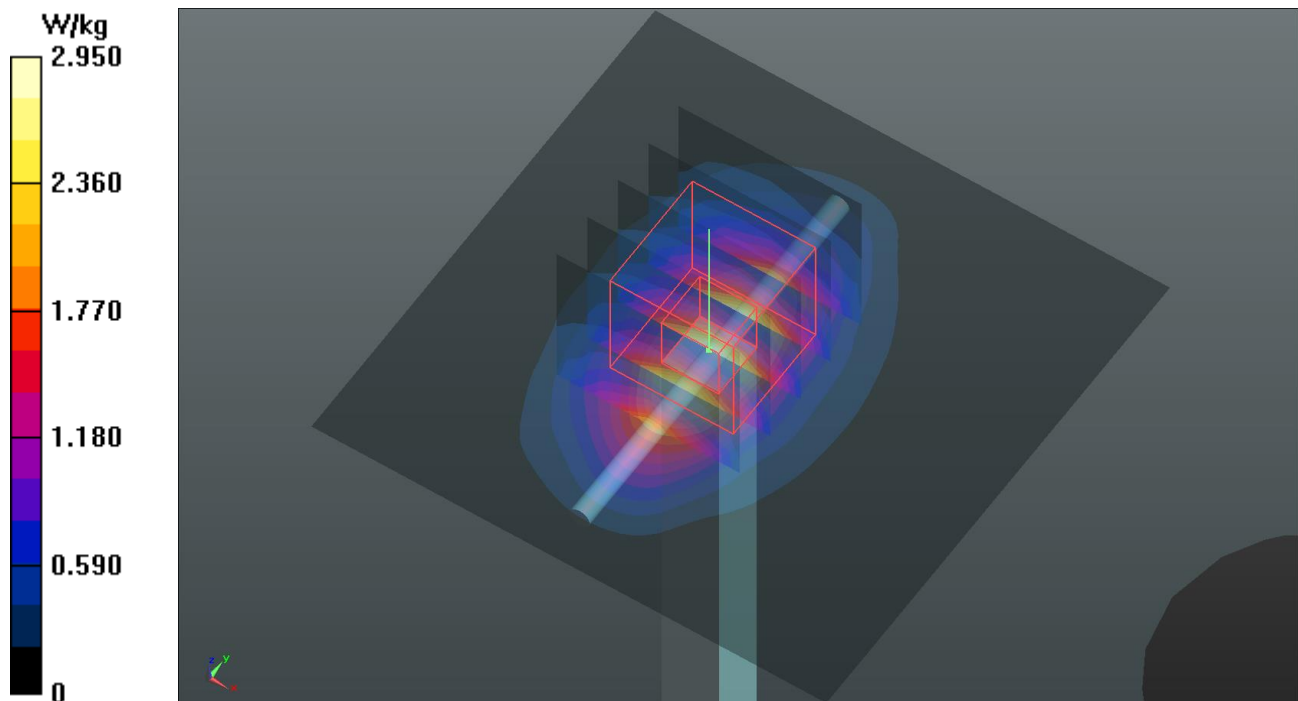
Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 43.74 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 3.63 W/kg

SAR(1 g) = 1.94 W/kg; SAR(10 g) = 1.02 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 3.08 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/07/28

S03 System Check_H1900_220728

DUT: Dipole 1900 MHz; Type: D1900V2; SN: 5d036

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: H16T20N1_0728 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.459$ S/m; $\epsilon_r = 38.999$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(8.33, 8.33, 8.33) @ 1900 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 (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.95 W/kg

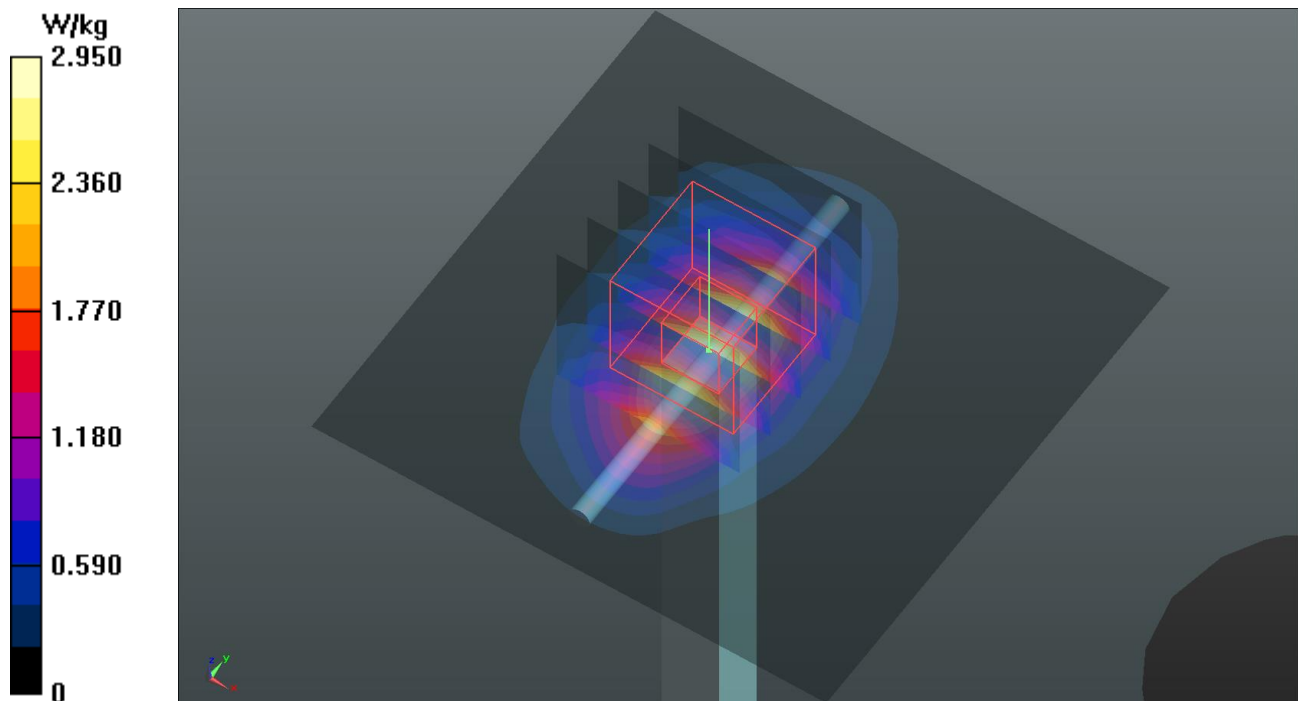
Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 43.74 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 3.63 W/kg

SAR(1 g) = 1.94 W/kg; SAR(10 g) = 1.02 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 3.08 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/07/29

S04 System Check_H1750_220729

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

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

Medium: H16T20N1_0729 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.368$ S/m; $\epsilon_r = 38.841$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7537; ConvF(8.57, 8.57, 8.57) @ 1750 MHz; Calibrated: 2022/04/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2022/04/21
- Phantom: Twin SAM Phantom_1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.55 W/kg

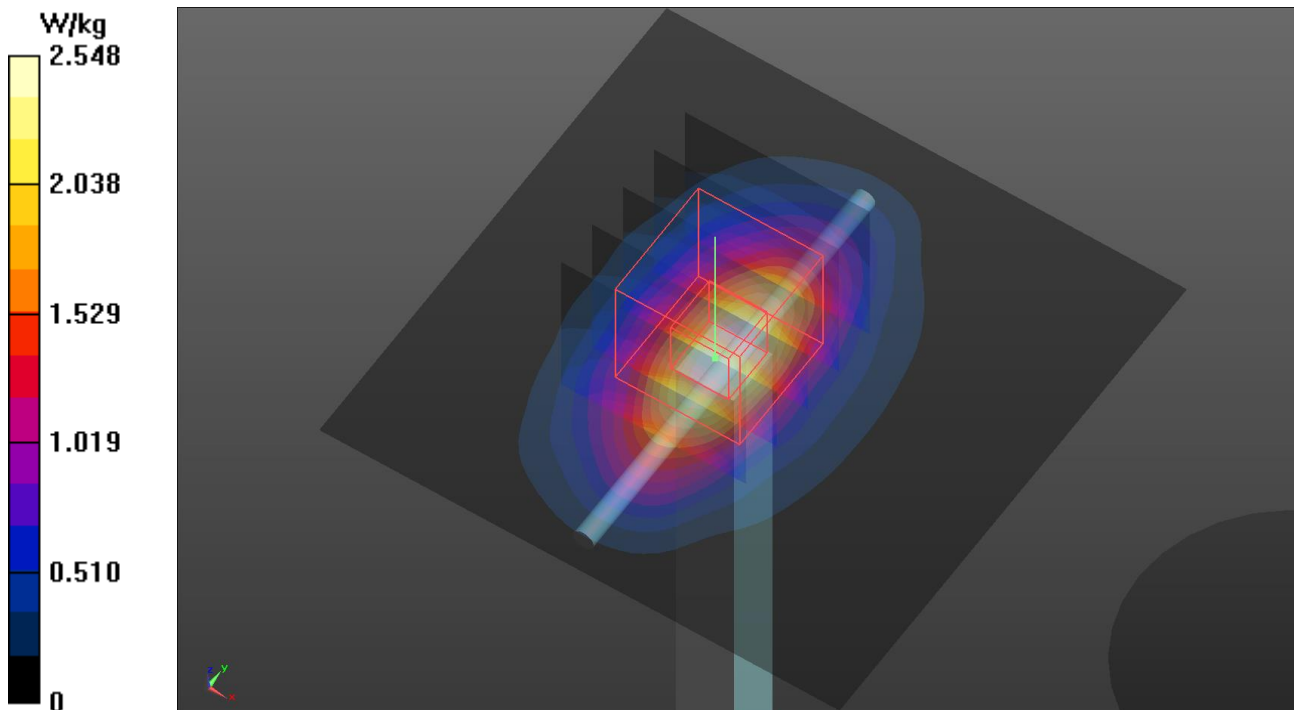
Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 42.27 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 3.21 W/kg

SAR(1 g) = 1.7 W/kg; SAR(10 g) = 0.899 W/kg (SAR corrected for target medium)

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



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/07/30

S05 System Check_H835_220730

DUT: Dipole 835 MHz; Type: D835V2; SN: 4d121

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: H07T10N1_0730 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.915 \text{ S/m}$; $\epsilon_r = 40.603$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : $23.6 \text{ }^\circ\text{C}$; Liquid Temperature : $23.4 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(10.02, 10.02, 10.02) @ 835 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 (61x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.617 W/kg

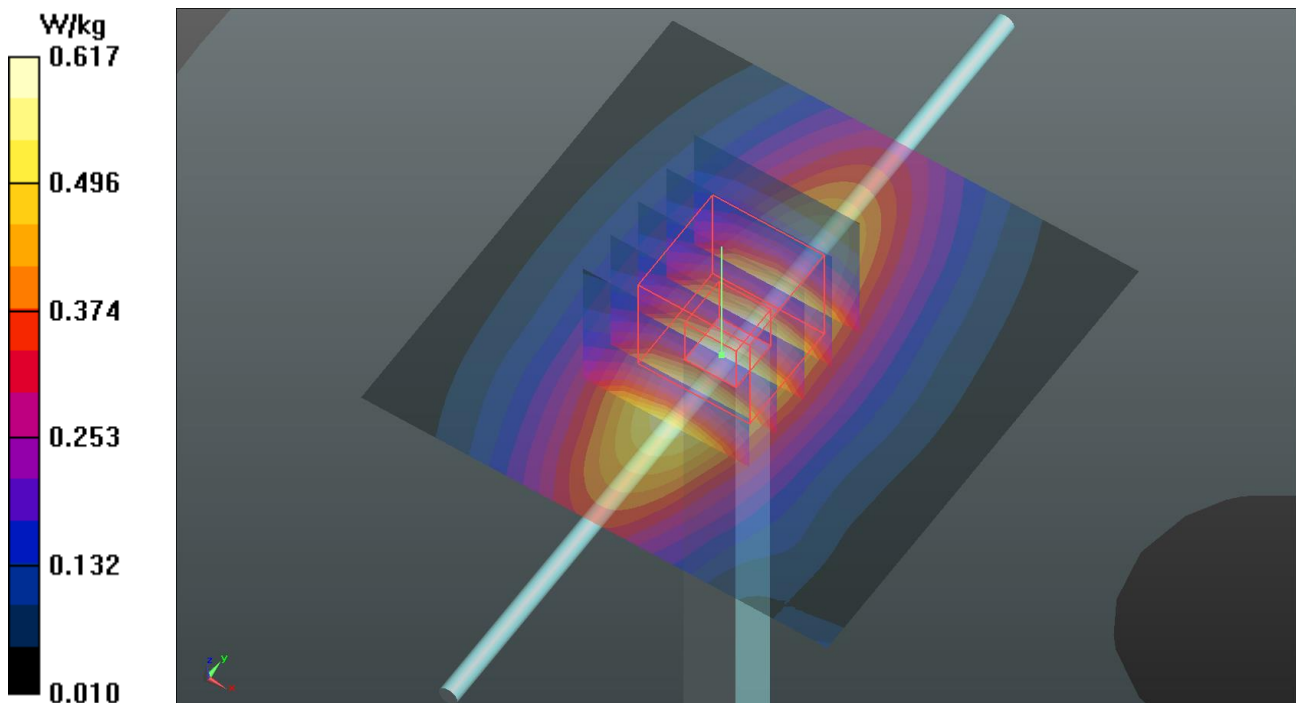
Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 26.95 V/m ; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.684 W/kg

SAR(1 g) = 0.453 W/kg ; SAR(10 g) = 0.296 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.611 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/07/28

S06 System Check_H1900_220728

DUT: Dipole 1900 MHz; Type: D1900V2; SN: 5d036

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: H16T20N1_0728 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.459$ S/m; $\epsilon_r = 38.999$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(8.33, 8.33, 8.33) @ 1900 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 (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.95 W/kg

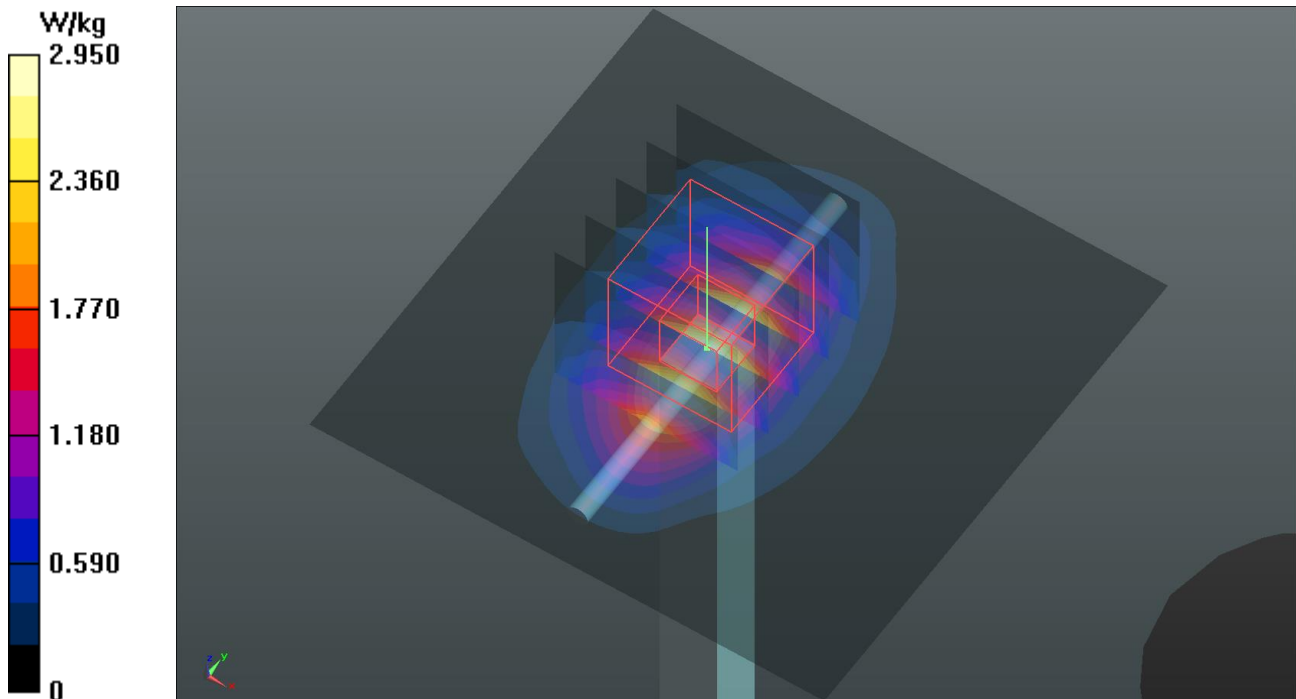
Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 43.74 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 3.63 W/kg

SAR(1 g) = 1.94 W/kg; SAR(10 g) = 1.02 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 3.08 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/07/29

S07 System Check_H1750_220729

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

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

Medium: H16T20N1_0729 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.332$ S/m; $\epsilon_r = 39.529$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(8.72, 8.72, 8.72) @ 1750 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 (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.48 W/kg

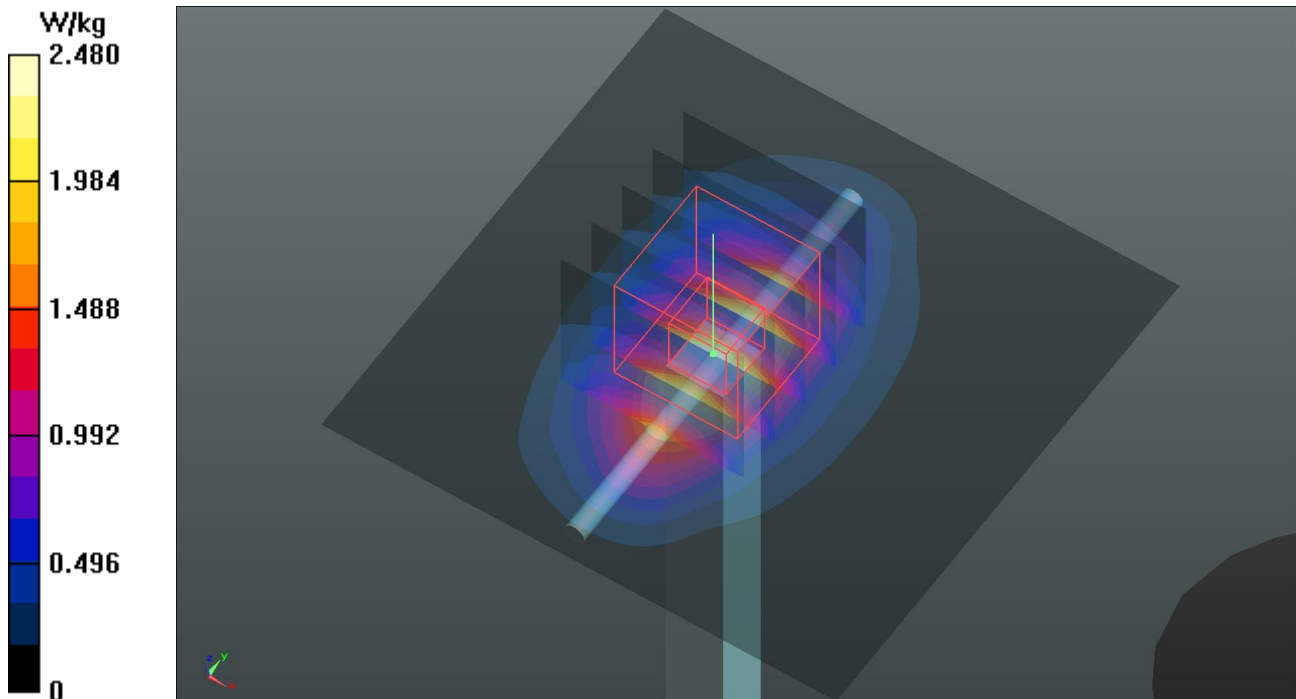
Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 42.29 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 3.14 W/kg

SAR(1 g) = 1.69 W/kg; SAR(10 g) = 0.885 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 2.61 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/07/30

S08 System Check_H835_220730

DUT: Dipole 835 MHz; Type: D835V2; SN: 4d121

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: H07T10N1_0730 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.915 \text{ S/m}$; $\epsilon_r = 40.603$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : $23.6 \text{ }^\circ\text{C}$; Liquid Temperature : $23.4 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(10.02, 10.02, 10.02) @ 835 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 (61x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.617 W/kg

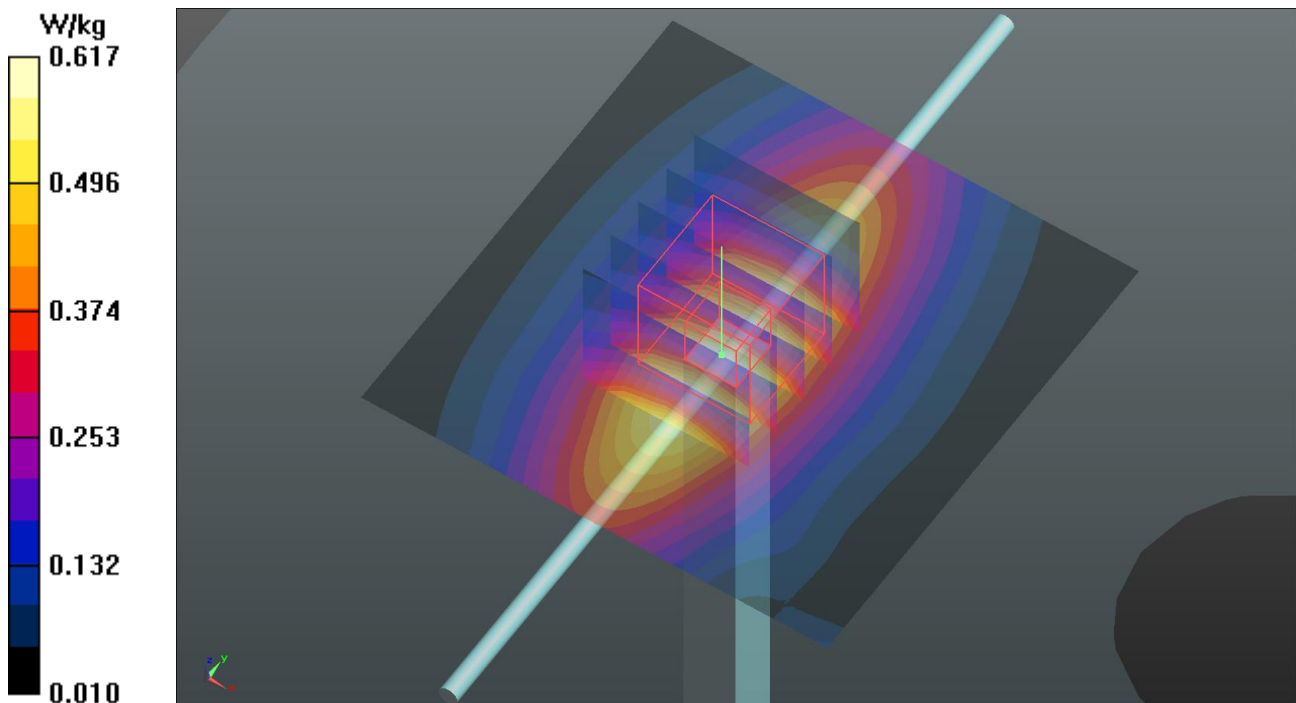
Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 26.95 V/m ; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.684 W/kg

SAR(1 g) = 0.453 W/kg ; SAR(10 g) = 0.296 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.611 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/07/28

S09 System Check_H2600_220728

DUT: Dipole 2600 MHz; Type: D2600V2; SN: 1020

Communication System: UID 0, CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: H19T27N1_0728 Medium parameters used: $f = 2600$ MHz; $\sigma = 2.032$ S/m; $\epsilon_r = 37.484$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(7.73, 7.73, 7.73) @ 2600 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) = 4.59 W/kg

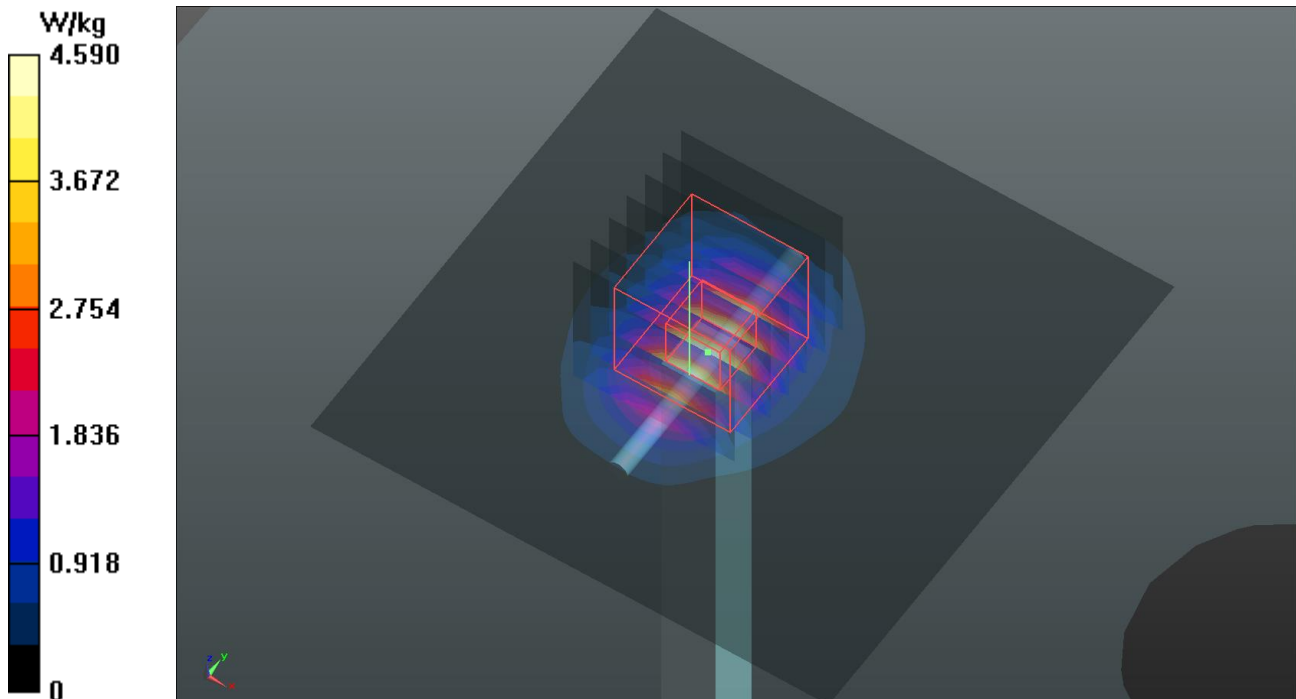
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 43.64 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 6.42 W/kg

SAR(1 g) = 2.72 W/kg; SAR(10 g) = 1.26 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 4.83 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/07/29

S10 System Check_H1750_220729

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

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

Medium: H16T20N1_0729 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.332$ S/m; $\epsilon_r = 39.529$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(8.72, 8.72, 8.72) @ 1750 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 (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.48 W/kg

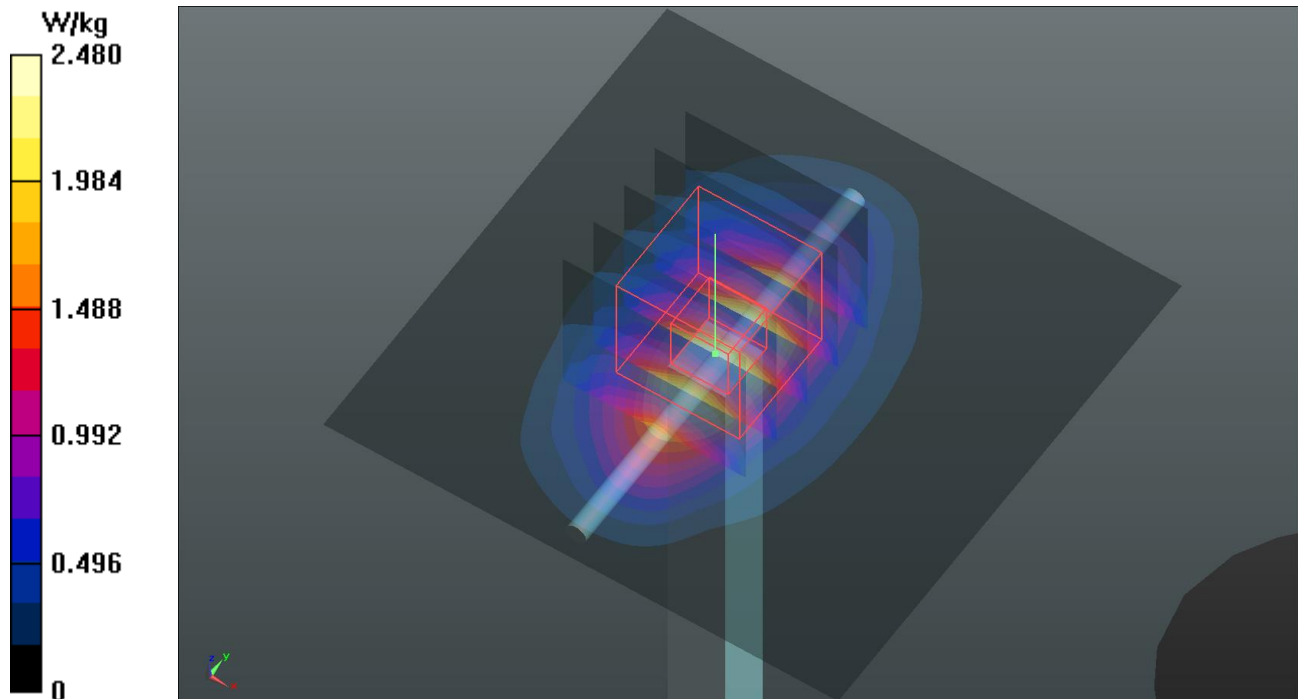
Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 42.29 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 3.14 W/kg

SAR(1 g) = 1.69 W/kg; SAR(10 g) = 0.885 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 2.61 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/06/28

S11 System Check_H2450_220628

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

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

Medium: H19T27N3_0628 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.805$ S/m; $\epsilon_r = 38.053$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(7.82, 7.82, 7.82) @ 2450 MHz; Calibrated: 2022/03/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2022/03/23
- Phantom: Twin-SAM V8.0_1988; Type: QD 000 P41 AA; Serial:
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

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

Maximum value of SAR (interpolated) = 4.17 W/kg

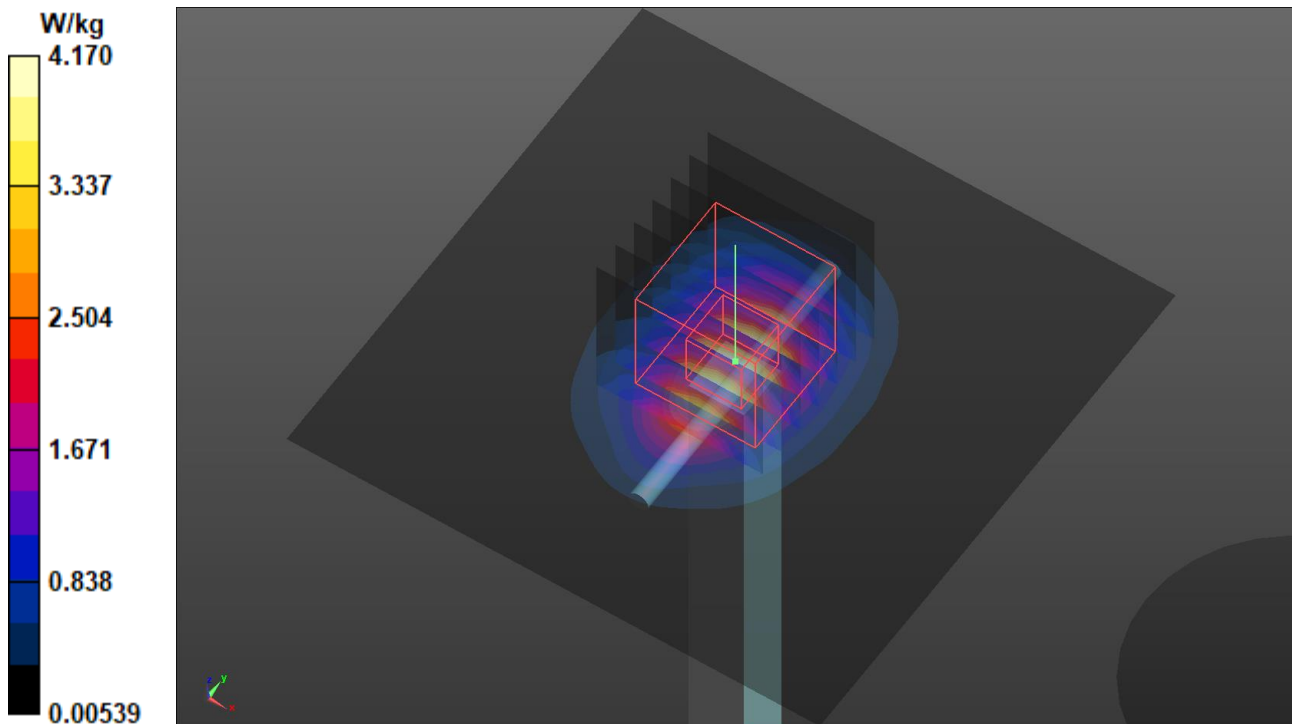
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 48.87 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 5.15 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) = 4.17 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/06/28

S12 System Check_H5250_220628

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

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

Medium: H34T60N1_0628 Medium parameters used (interpolated): $f = 5250$ MHz; $\sigma = 4.795$ S/m; $\epsilon_r = 34.862$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(5.28, 5.28, 5.28) @ 5250 MHz; Calibrated: 2022/03/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2022/03/23
- Phantom: Twin-SAM V8.0_1988; Type: QD 000 P41 AA; Serial:
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

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

Maximum value of SAR (interpolated) = 9.08 W/kg

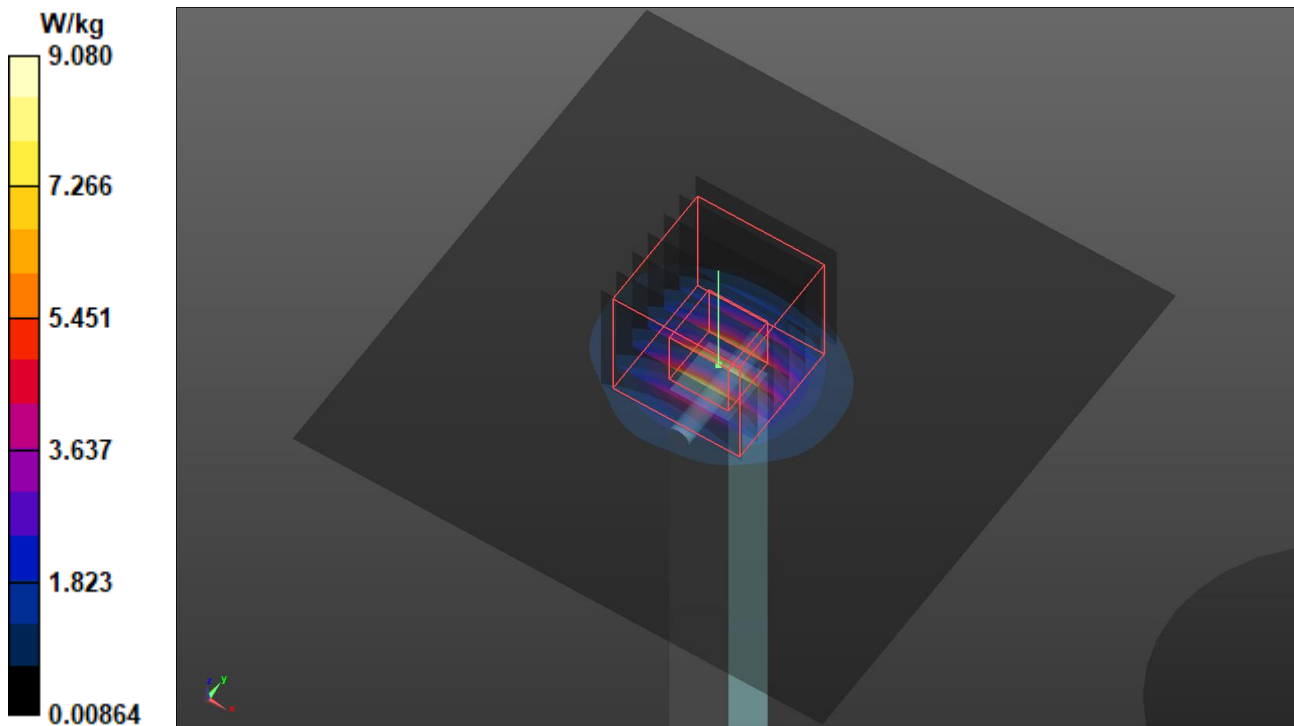
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 48.15 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 15.0 W/kg

SAR(1 g) = 3.91 W/kg; SAR(10 g) = 1.17 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 9.57 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/06/28

S13 System Check_H5600_220628

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

Communication System: UID 0, CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: H34T60N1_0628 Medium parameters used: $f = 5600$ MHz; $\sigma = 5.122$ S/m; $\epsilon_r = 34.362$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(4.78, 4.78, 4.78) @ 5600 MHz; Calibrated: 2022/03/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2022/03/23
- Phantom: Twin-SAM V8.0_1988; Type: QD 000 P41 AA; Serial:
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

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

Maximum value of SAR (interpolated) = 10.1 W/kg

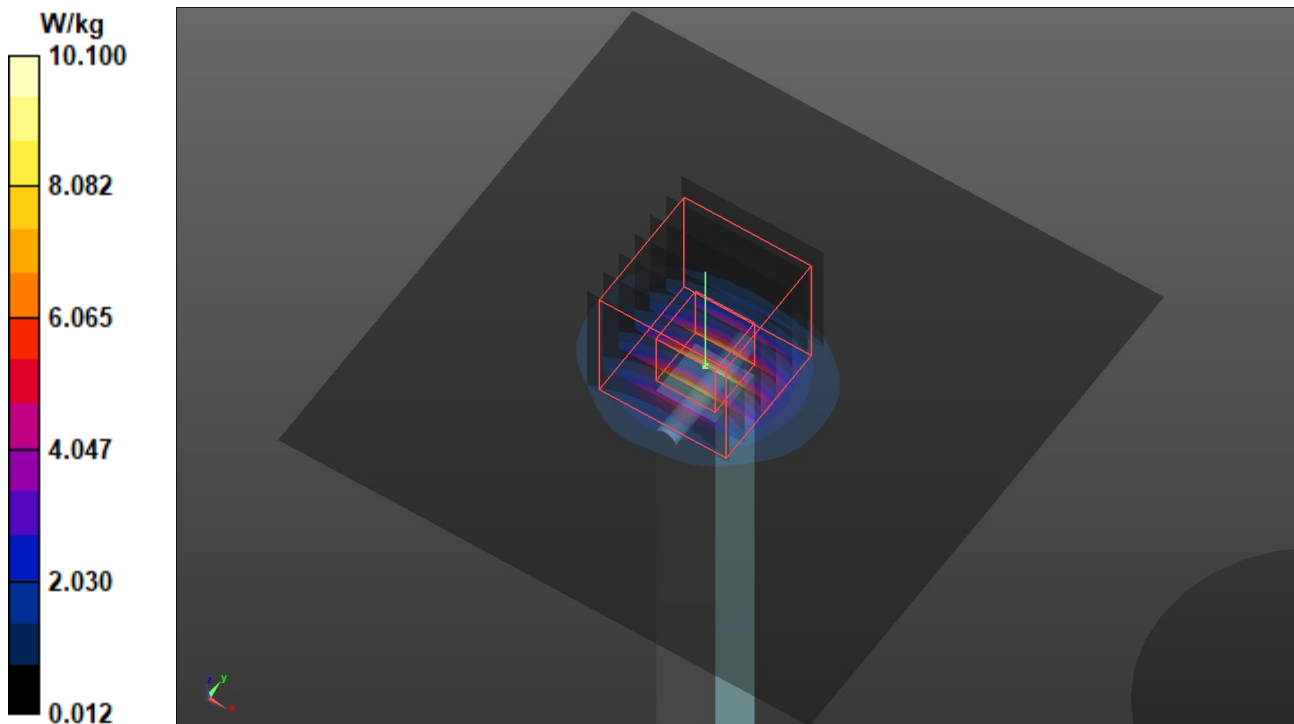
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 49.12 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 17.8 W/kg

SAR(1 g) = 4.14 W/kg; SAR(10 g) = 1.22 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 10.7 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/06/28

S14 System Check_H5750_220628

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

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

Medium: H34T60N1_0628 Medium parameters used: $f = 5750$ MHz; $\sigma = 5.268$ S/m; $\epsilon_r = 34.153$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(5.06, 5.06, 5.06) @ 5750 MHz; Calibrated: 2022/03/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2022/03/23
- Phantom: Twin-SAM V8.0_1988; Type: QD 000 P41 AA; Serial:
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

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

Maximum value of SAR (interpolated) = 8.86 W/kg

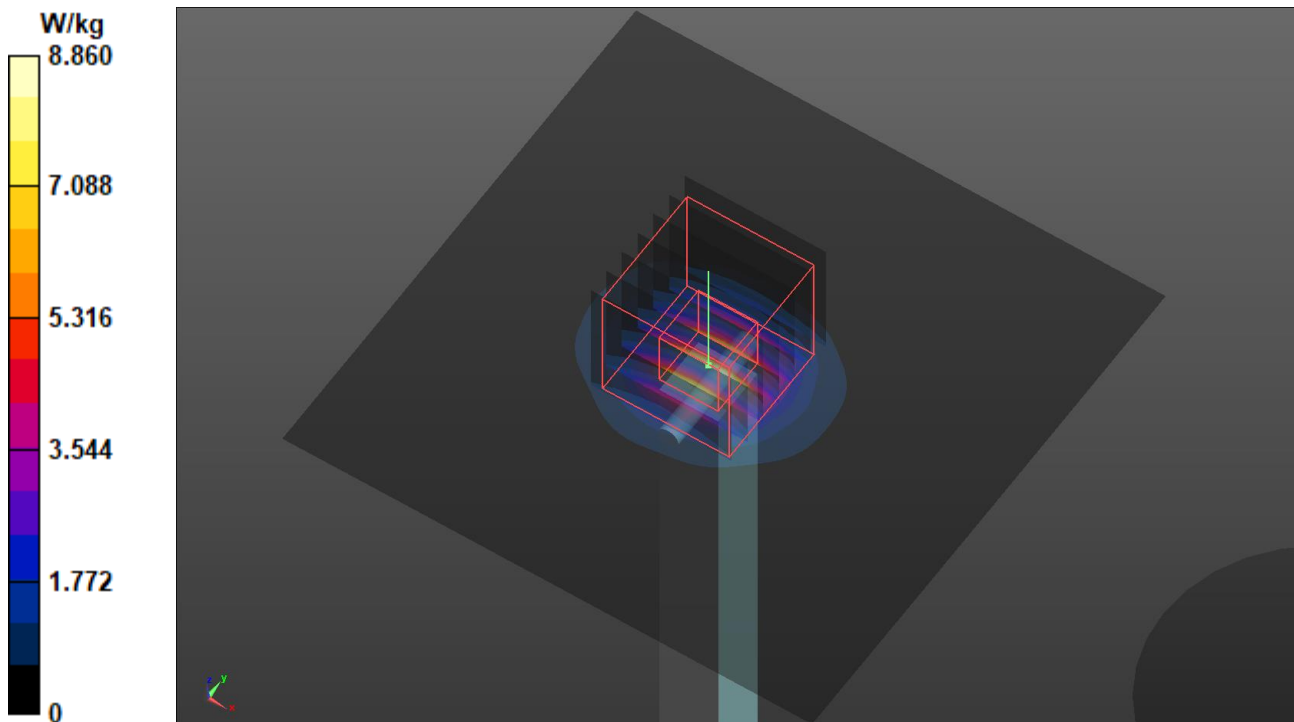
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 46.20 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 16.9 W/kg

SAR(1 g) = 3.71 W/kg; SAR(10 g) = 1.09 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 9.79 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/06/28

S15 System Check_H2450_220628

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

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

Medium: H19T27N3_0628 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.805$ S/m; $\epsilon_r = 38.053$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(7.82, 7.82, 7.82) @ 2450 MHz; Calibrated: 2022/03/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2022/03/23
- Phantom: Twin-SAM V8.0_1988; Type: QD 000 P41 AA; Serial:
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

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

Maximum value of SAR (interpolated) = 4.17 W/kg

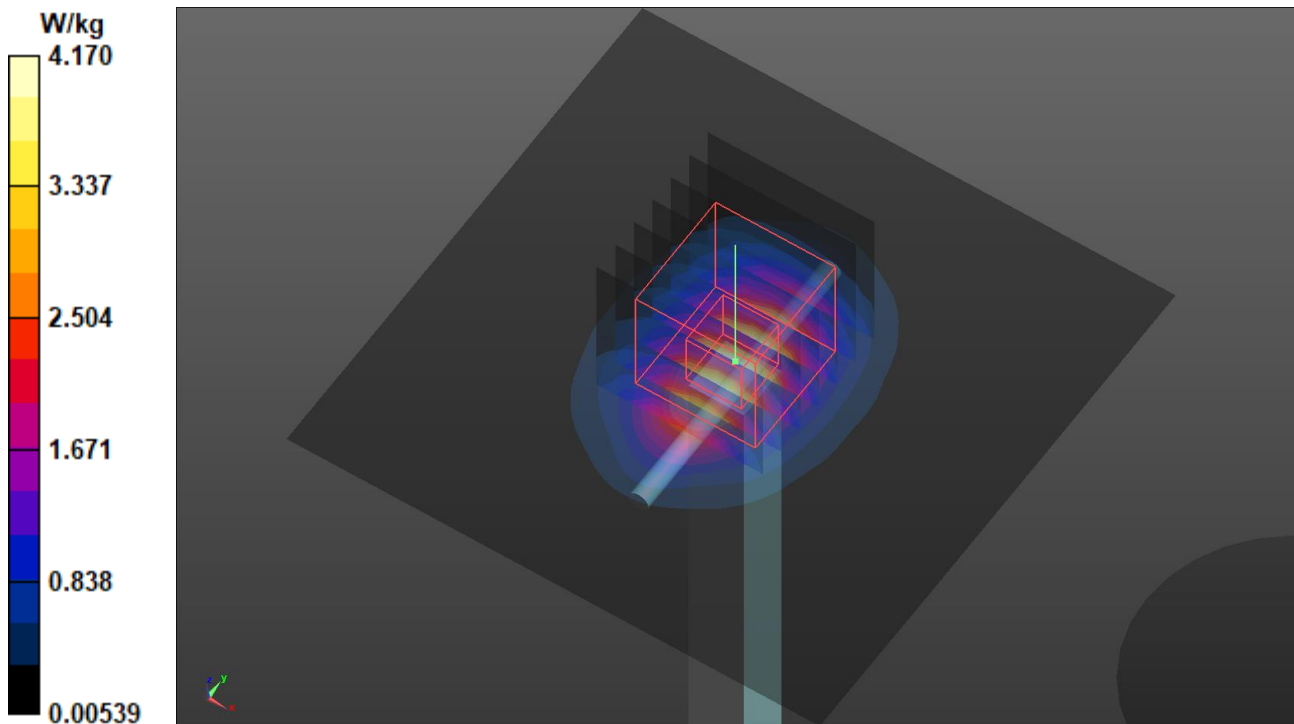
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 48.87 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 5.15 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) = 4.17 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: 2022/07/30

P01 GSM850_GPRS11_Right Side_0mm_Ch128

DUT: BFMG-WTW-P22060328

Communication System: UID 10027 - DAC, GPRS-FDD (TDMA, GMSK, TN 0-1-2); Frequency: 824.2 MHz; Duty Cycle: 1:3.02

Medium: H07T10N1_0730 Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.905$ S/m; $\epsilon_r = 40.745$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(10.02, 10.02, 10.02) @ 824.2 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 (51x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.15 W/kg

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

Reference Value = 35.65 V/m; Power Drift = -0.13 dB

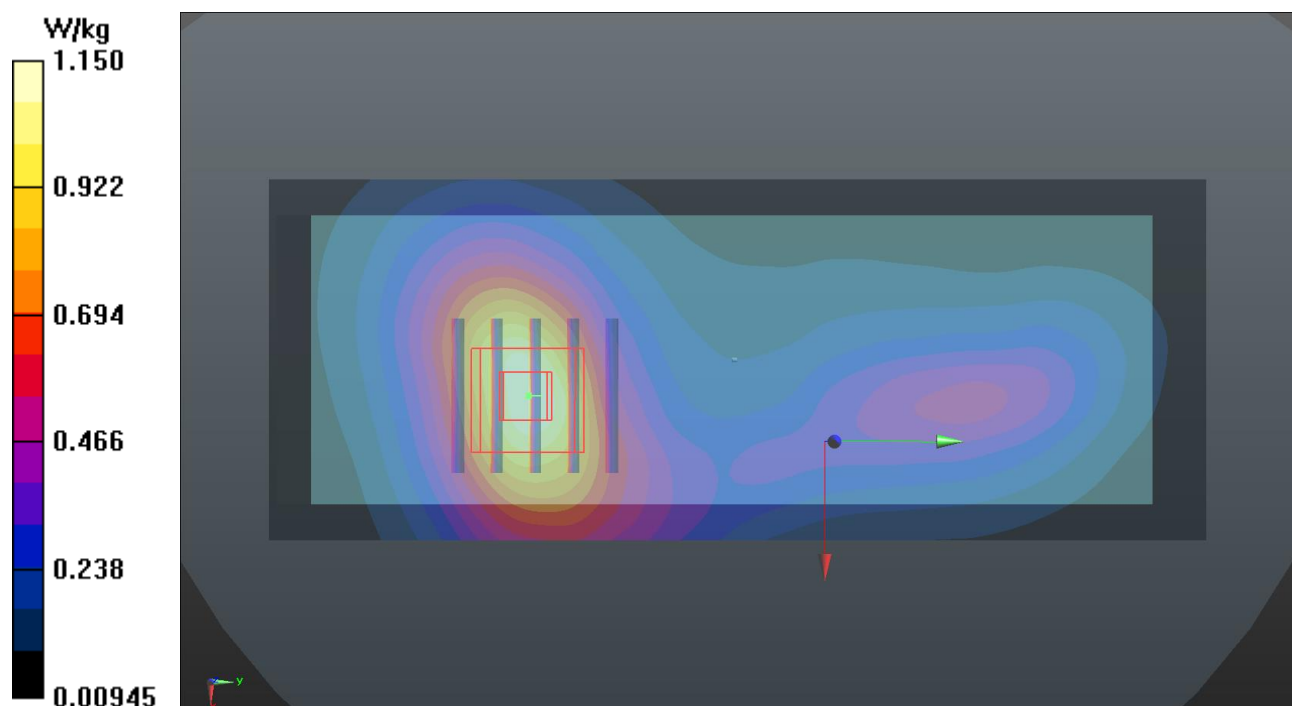
Peak SAR (extrapolated) = 1.34 W/kg

SAR(1 g) = 0.835 W/kg; SAR(10 g) = 0.528 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 15.2 mm

Ratio of SAR at M2 to SAR at M1 = 62.3%

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



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/07/28

P02 GSM1900_GPRS11_Rear Face_0mm_Ch512

DUT: BFMG-WTW-P22060328

Communication System: UID 10027 - DAC, GPRS-FDD (TDMA, GMSK, TN 0-1-2); Frequency: 1850.2 MHz; Duty Cycle: 1:3.02

Medium: H16T20N1_0728 Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.414$ S/m; $\epsilon_r = 39.186$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(8.33, 8.33, 8.33) @ 1850.2 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 (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 12.5 W/kg

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

Reference Value = 90.66 V/m; Power Drift = -0.05 dB

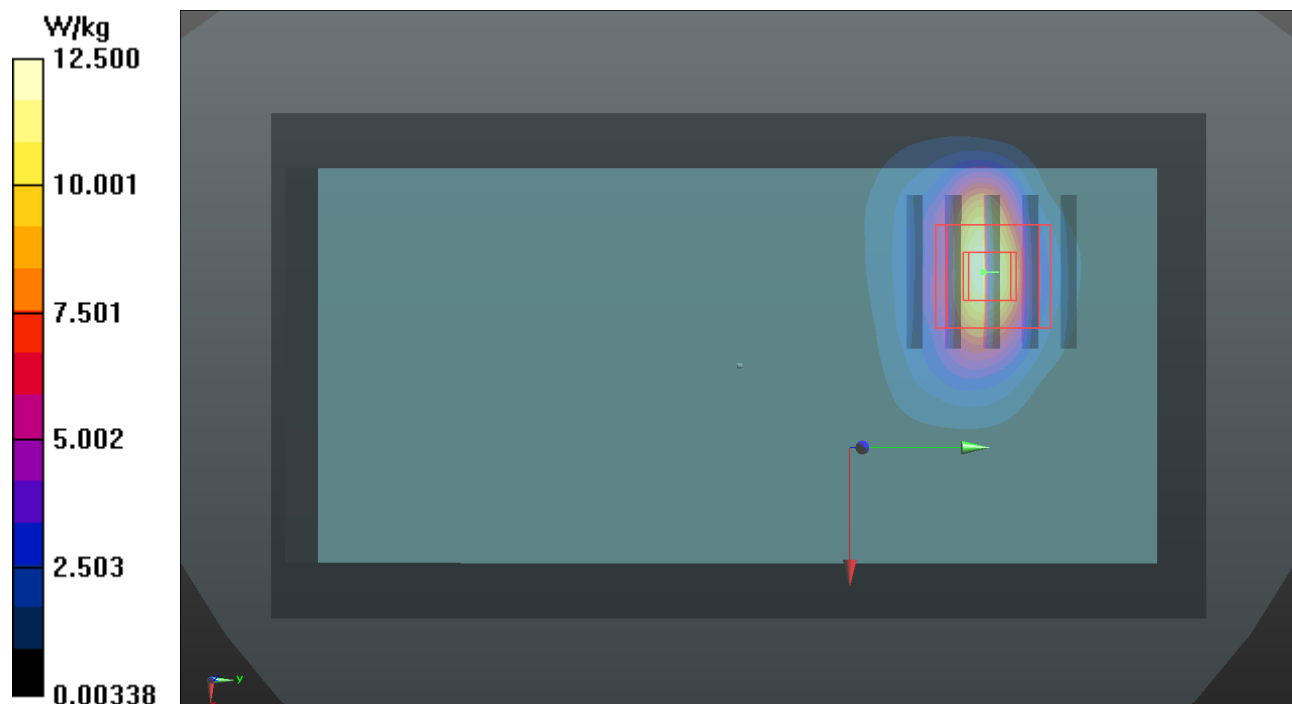
Peak SAR (extrapolated) = 14.3 W/kg

SAR(1 g) = 6.7 W/kg; SAR(10 g) = 3.11 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 = 48.4%

Maximum value of SAR (measured) = 11.7 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/07/28

P03 WCDMA II_RMC12.2K_Rear Face_0mm_Ch9262

DUT: BFMG-WTW-P22060328

Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1852.4 MHz; Duty Cycle: 1:1.95
Medium: H16T20N1_0728 Medium parameters used (interpolated): $f = 1852.4$ MHz; $\sigma = 1.416$ S/m; $\epsilon_r = 39.179$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(8.33, 8.33, 8.33) @ 1852.4 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 (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 11.0 W/kg

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

Reference Value = 82.99 V/m; Power Drift = 0.17 dB

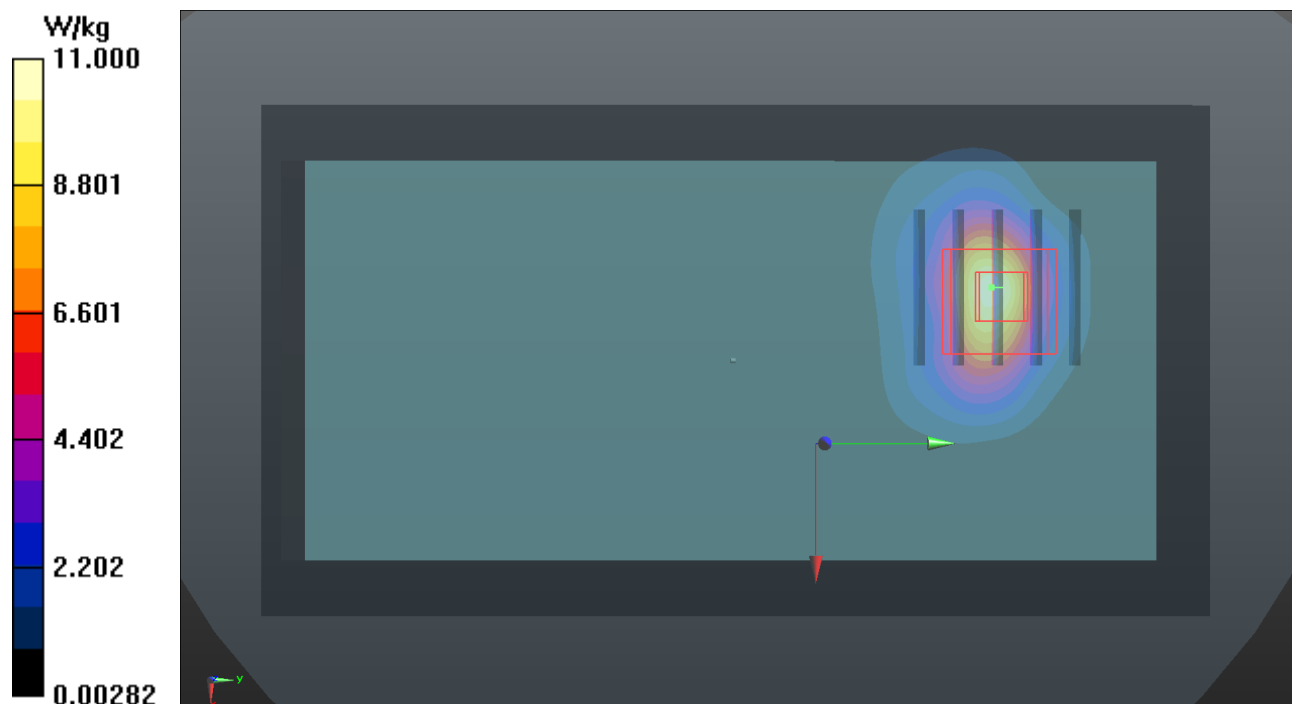
Peak SAR (extrapolated) = 12.8 W/kg

SAR(1 g) = 6.11 W/kg; SAR(10 g) = 2.88 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 8.6 mm

Ratio of SAR at M2 to SAR at M1 = 48.1%

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



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/07/29

P04 WCDMA IV _RMC12.2K_Rear Face_0mm_Ch1312

DUT: BFMG-WTW-P22060328

Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1712.4 MHz; Duty Cycle: 1:1.95
Medium: H16T20N1_0729 Medium parameters used (interpolated): $f = 1712.4$ MHz; $\sigma = 1.349$ S/m; $\epsilon_r = 38.893$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7537; ConvF(8.57, 8.57, 8.57) @ 1712.4 MHz; Calibrated: 2022/04/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2022/04/21
- Phantom: Twin SAM Phantom_1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 9.43 W/kg

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

Reference Value = 73.16 V/m; Power Drift = -0.08 dB

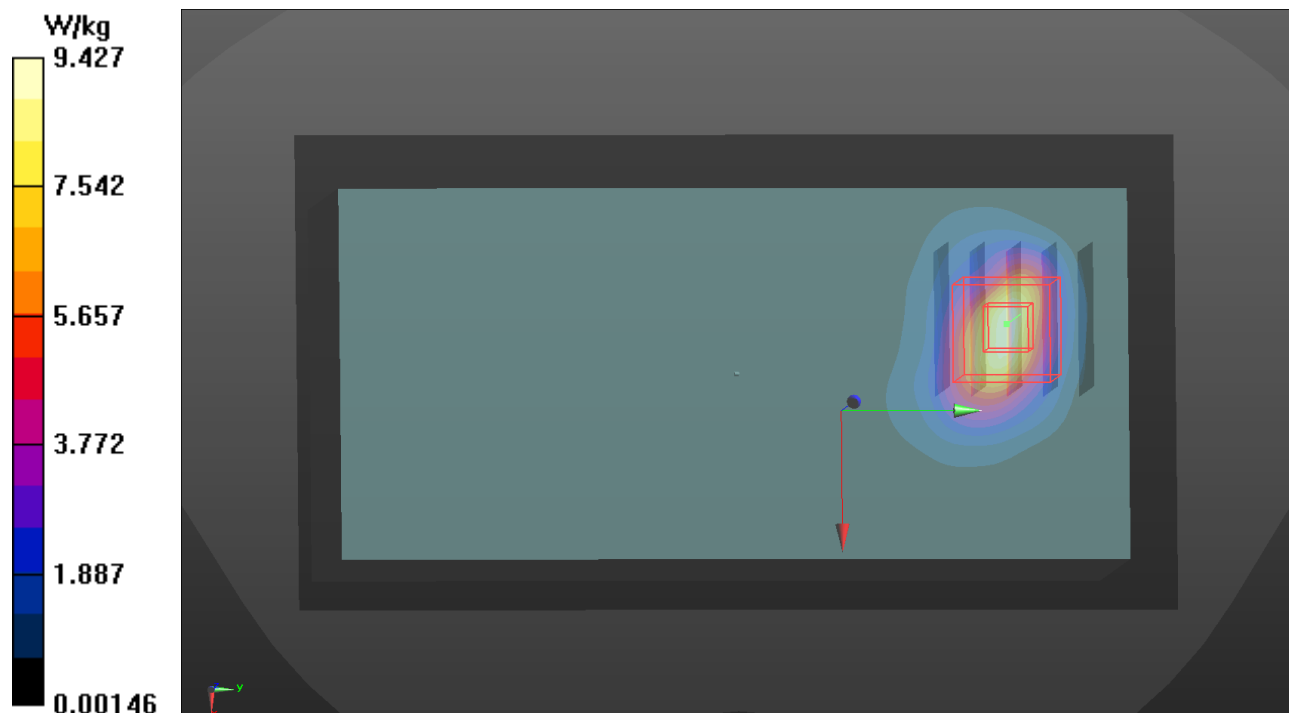
Peak SAR (extrapolated) = 12.1 W/kg

SAR(1 g) = 6.02 W/kg; SAR(10 g) = 2.89 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 = 51.2%

Maximum value of SAR (measured) = 10.0 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/07/30

P05 WCDMA V_RMC12.2K_Right Side_0mm_Ch4182

DUT: BFMG-WTW-P22060328

Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.4 MHz; Duty Cycle: 1:1.95
Medium: H07T10N1_0730 Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.916$ S/m; $\epsilon_r = 40.583$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(10.02, 10.02, 10.02) @ 836.4 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 (51x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.453 W/kg

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

Reference Value = 21.79 V/m; Power Drift = 0.11 dB

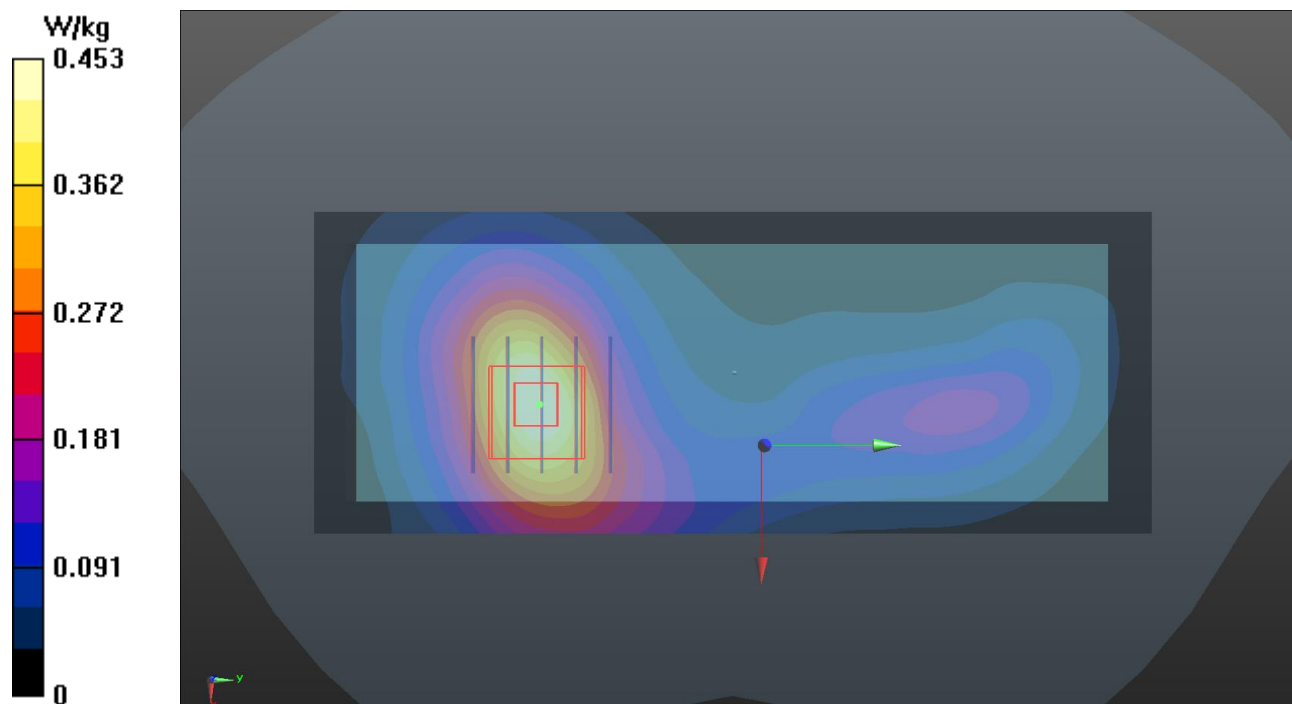
Peak SAR (extrapolated) = 0.549 W/kg

SAR(1 g) = 0.339 W/kg; SAR(10 g) = 0.213 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 14.3 mm

Ratio of SAR at M2 to SAR at M1 = 62.1%

Maximum value of SAR (measured) = 0.479 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/07/28

P06 LTE 2_QPSK20M_Rear Face_0mm_Ch18700_1RB_OS0

DUT: BFMG-WTW-P22060328

Communication System: UID 10169 - CAE, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 1860 MHz; Duty Cycle: 1:3.74

Medium: H16T20N1_0728 Medium parameters used: $f = 1860$ MHz; $\sigma = 1.423$ S/m; $\epsilon_r = 39.163$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(8.33, 8.33, 8.33) @ 1860 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 (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 12.0 W/kg

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

Reference Value = 92.73 V/m; Power Drift = -0.14 dB

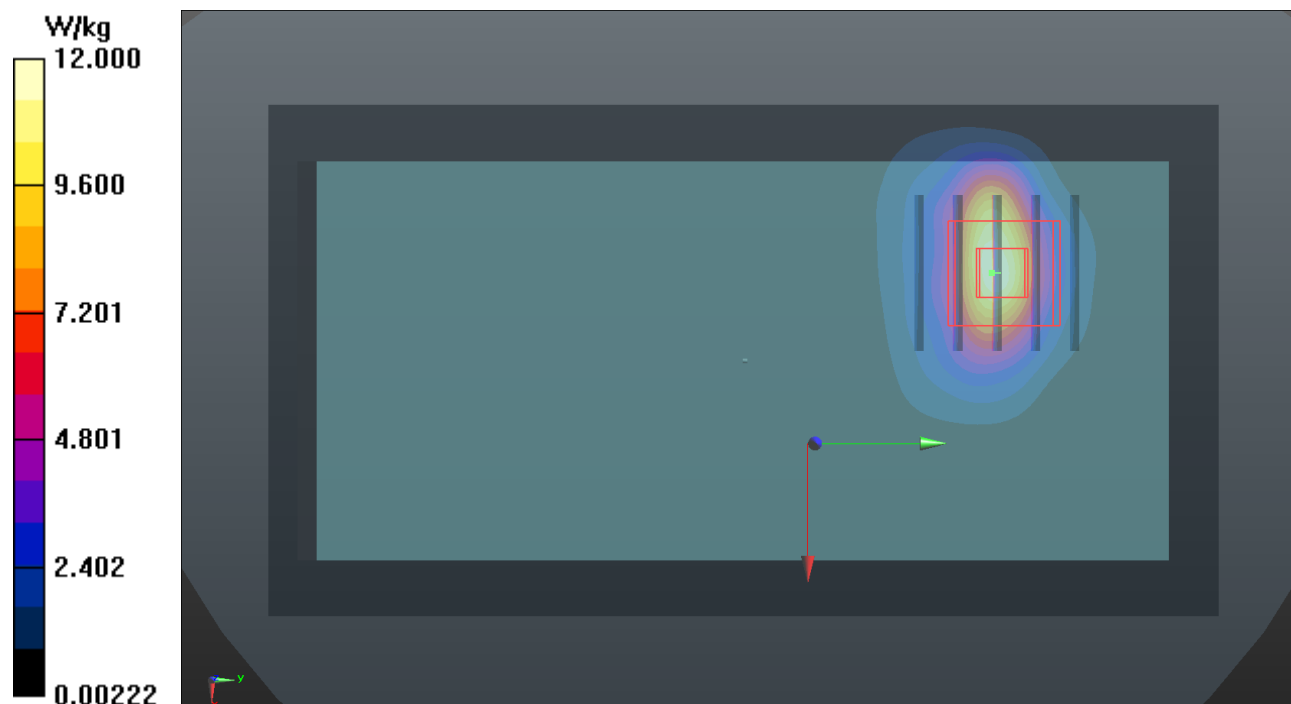
Peak SAR (extrapolated) = 14.0 W/kg

SAR(1 g) = 6.71 W/kg; SAR(10 g) = 3.17 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 = 49.6%

Maximum value of SAR (measured) = 11.2 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/07/29

P07 LTE 4_QPSK20M_Rear Face_0mm_Ch20050_1RB_OS0

DUT: BFMG-WTW-P22060328

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

Medium: H16T20N1_0729 Medium parameters used: $f = 1720$ MHz; $\sigma = 1.307$ S/m; $\epsilon_r = 39.671$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(8.72, 8.72, 8.72) @ 1720 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 (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 10.4 W/kg

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

Reference Value = 85.66 V/m; Power Drift = -0.18 dB

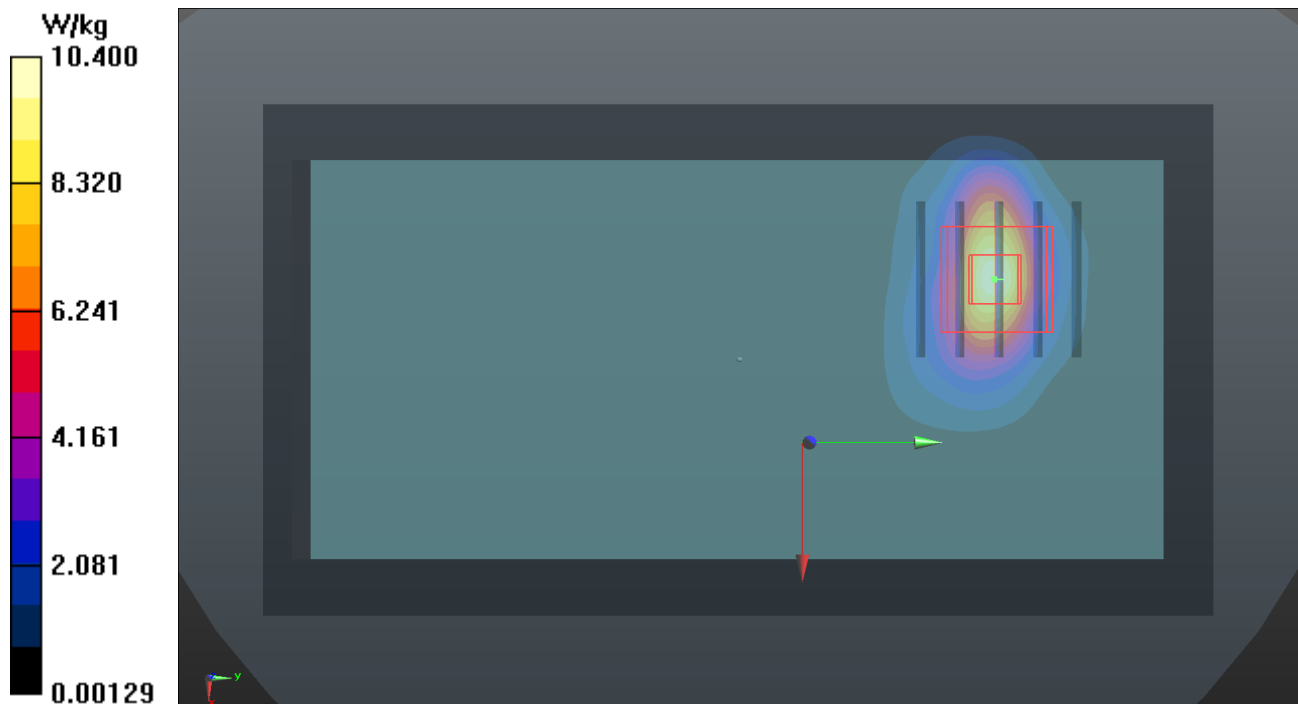
Peak SAR (extrapolated) = 11.7 W/kg

SAR(1 g) = 5.93 W/kg; SAR(10 g) = 2.82 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 8.6 mm

Ratio of SAR at M2 to SAR at M1 = 50.9%

Maximum value of SAR (measured) = 9.65 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/07/30

P08 LTE 5_QPSK10M_Right Side_0mm_Ch20525_1RB_OS0

DUT: BFMG-WTW-P22060328

Communication System: UID 10175 - CAG, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 836.5 MHz; Duty Cycle: 1:3.74

Medium: H07T10N1_0730 Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.916$ S/m; $\epsilon_r = 40.582$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(10.02, 10.02, 10.02) @ 836.5 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 (51x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.512 W/kg

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

Reference Value = 24.32 V/m; Power Drift = -0.10 dB

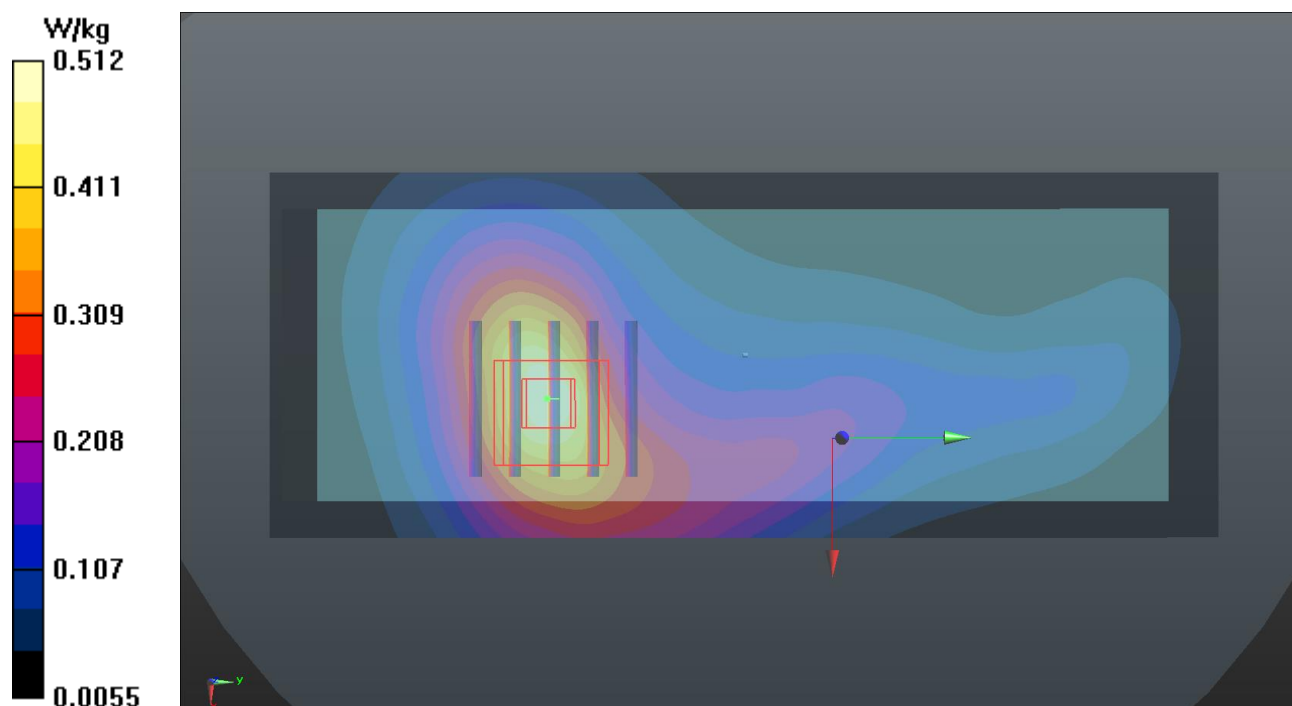
Peak SAR (extrapolated) = 0.591 W/kg

SAR(1 g) = 0.362 W/kg; SAR(10 g) = 0.229 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 14.8 mm

Ratio of SAR at M2 to SAR at M1 = 61.5%

Maximum value of SAR (measured) = 0.514 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/07/28

P09 LTE 7_QPSK20M_Rear Face_0mm_Ch21350_1RB_OS0

DUT: BFMG-WTW-P22060328

Communication System: UID 10169 - CAE, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 2560 MHz; Duty Cycle: 1:3.74

Medium: H19T27N1_0728 Medium parameters used: $f = 2560$ MHz; $\sigma = 1.987$ S/m; $\epsilon_r = 37.614$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(7.73, 7.73, 7.73) @ 2560 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 (91x171x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 7.61 W/kg

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

Reference Value = 56.83 V/m; Power Drift = -0.08 dB

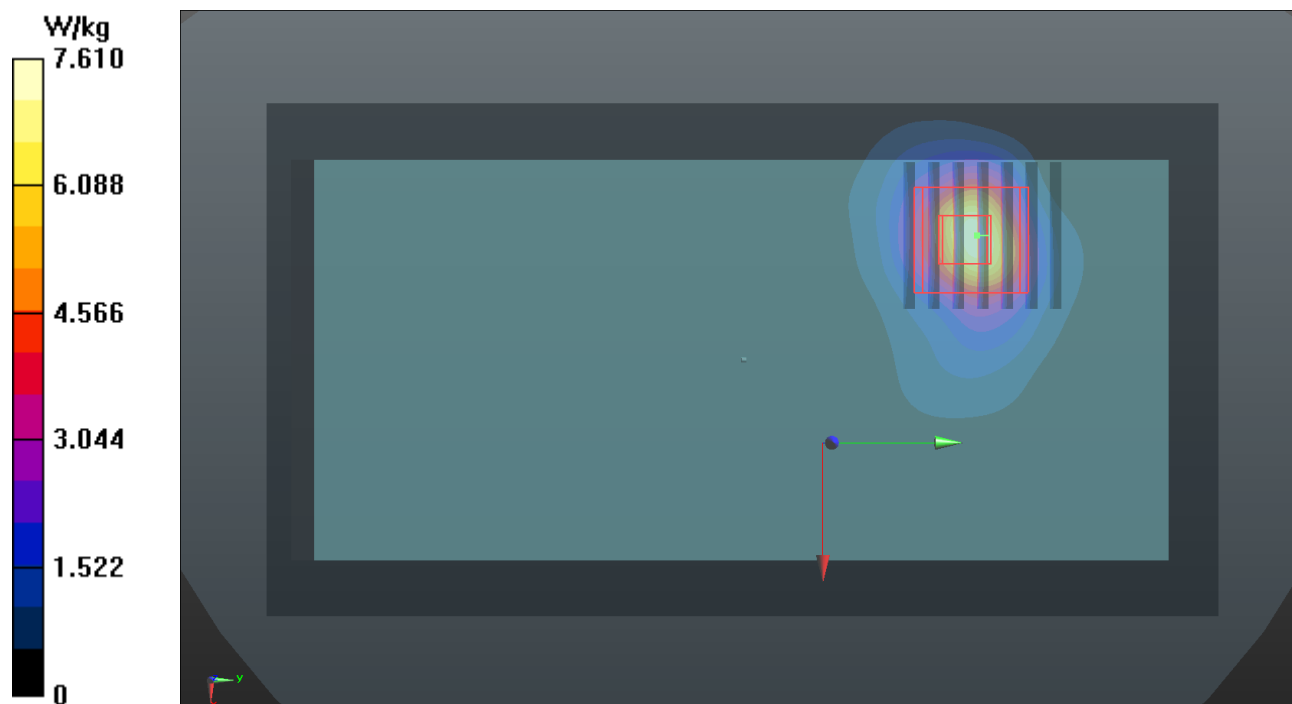
Peak SAR (extrapolated) = 9.71 W/kg

SAR(1 g) = 4.3 W/kg; SAR(10 g) = 1.9 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 8.1 mm

Ratio of SAR at M2 to SAR at M1 = 43.1%

Maximum value of SAR (measured) = 7.28 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/07/29

P10 LTE 66_QPSK20M_Rear Face_0mm_Ch132072_1RB_OS0

DUT: BFMG-WTW-P22060328

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

Medium: H16T20N1_0729 Medium parameters used: $f = 1720$ MHz; $\sigma = 1.307$ S/m; $\epsilon_r = 39.671$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(8.72, 8.72, 8.72) @ 1720 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 (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 11.2 W/kg

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

Reference Value = 89.45 V/m; Power Drift = -0.17 dB

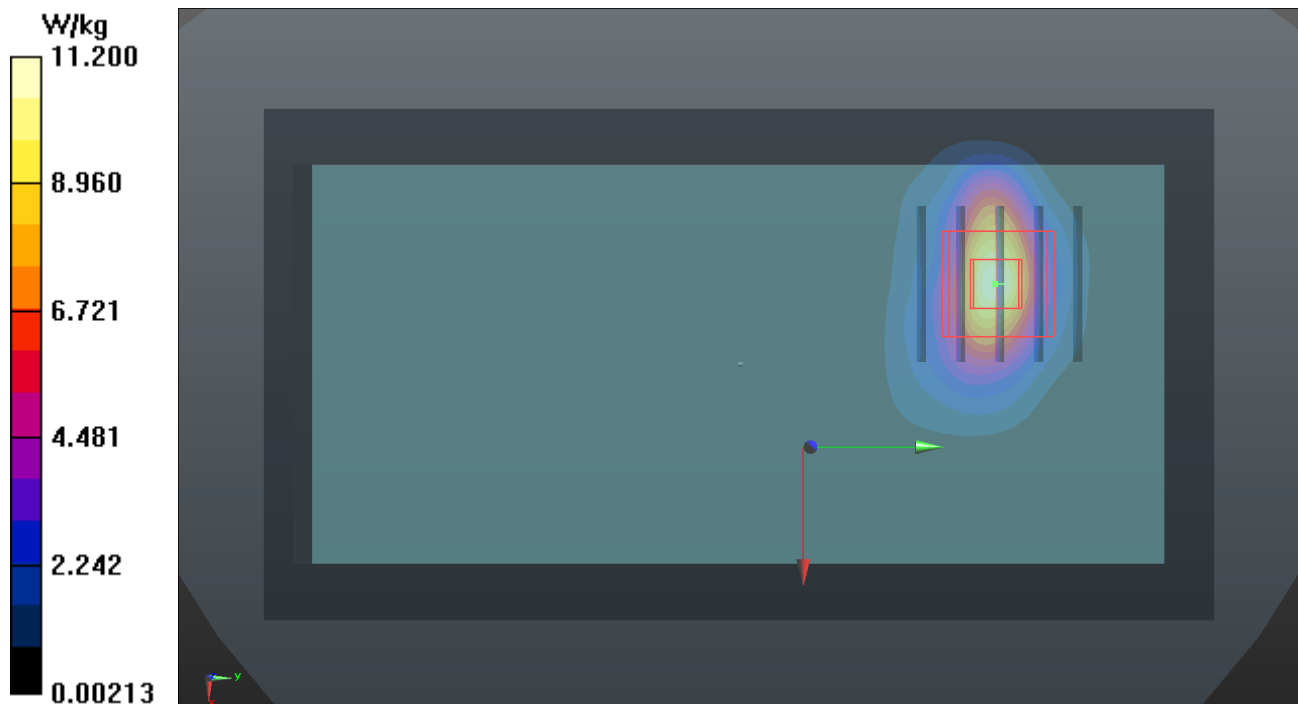
Peak SAR (extrapolated) = 13.0 W/kg

SAR(1 g) = 6.53 W/kg; SAR(10 g) = 3.1 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 8.6 mm

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

Maximum value of SAR (measured) = 10.7 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/06/28

P11 WLAN2.4G_802.11b_Left Side_0mm_Ch6

DUT: BFMG-WTW-P22060328

Communication System: UID 10012 - CAB, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps); Frequency: 2437 MHz; Duty Cycle: 1:1.01

Medium: H19T27N3_0628 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.795$ S/m; $\epsilon_r = 38.085$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(7.82, 7.82, 7.82) @ 2437 MHz; Calibrated: 2022/03/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2022/03/23
- Phantom: Twin-SAM V8.0_1988; Type: QD 000 P41 AA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (81x181x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.55 W/kg

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

Reference Value = 28.61 V/m; Power Drift = -0.01 dB

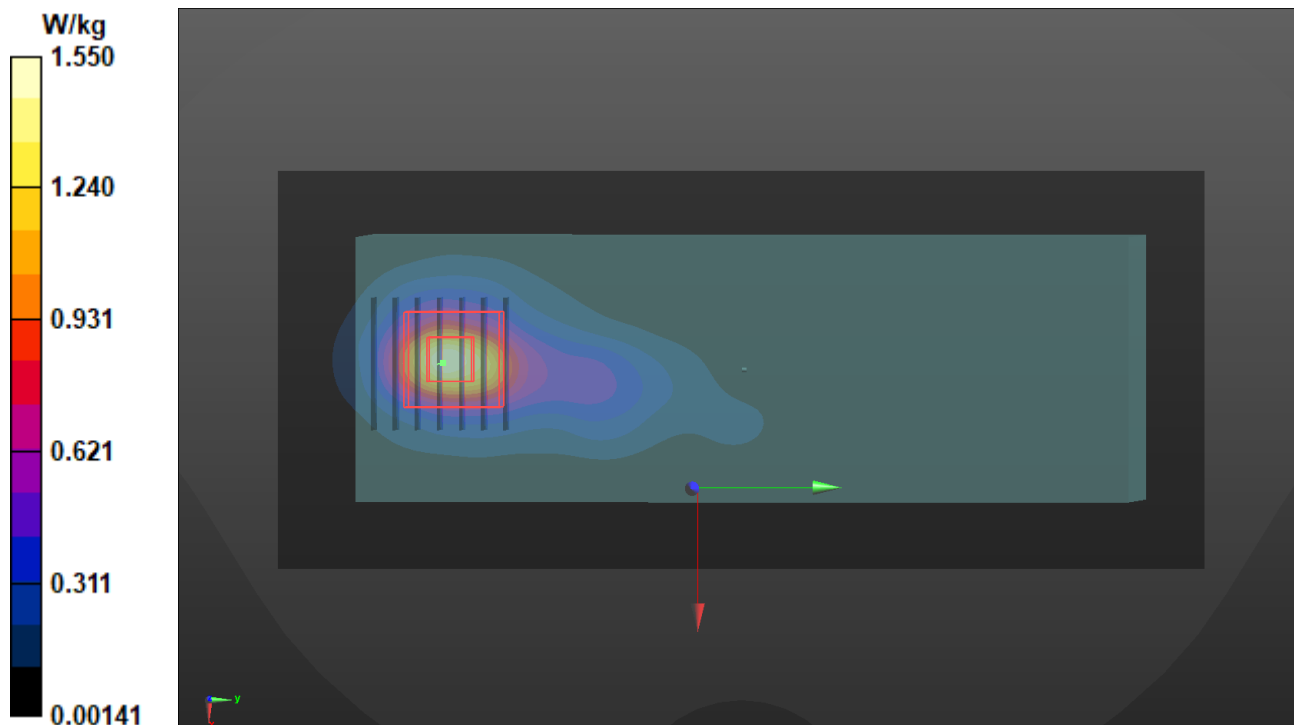
Peak SAR (extrapolated) = 2.27 W/kg

SAR(1 g) = 0.949 W/kg; SAR(10 g) = 0.413 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 = 41.8%

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



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/06/28

P12 WLAN5.3G_802.11a_Bottom Side_0mm_Ch60

DUT: BFMG-WTW-P22060328

Communication System: UID 10062 - CAD, IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps); Frequency: 5300 MHz; Duty Cycle: 1:1.09

Medium: H34T60N1_0628 Medium parameters used (interpolated): $f = 5300$ MHz; $\sigma = 4.839$ S/m; $\epsilon_r = 34.792$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(5.28, 5.28, 5.28) @ 5300 MHz; Calibrated: 2022/03/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2022/03/23
- Phantom: Twin-SAM V8.0_1988; Type: QD 000 P41 AA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (91x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.42 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 14.26 V/m; Power Drift = -0.17 dB

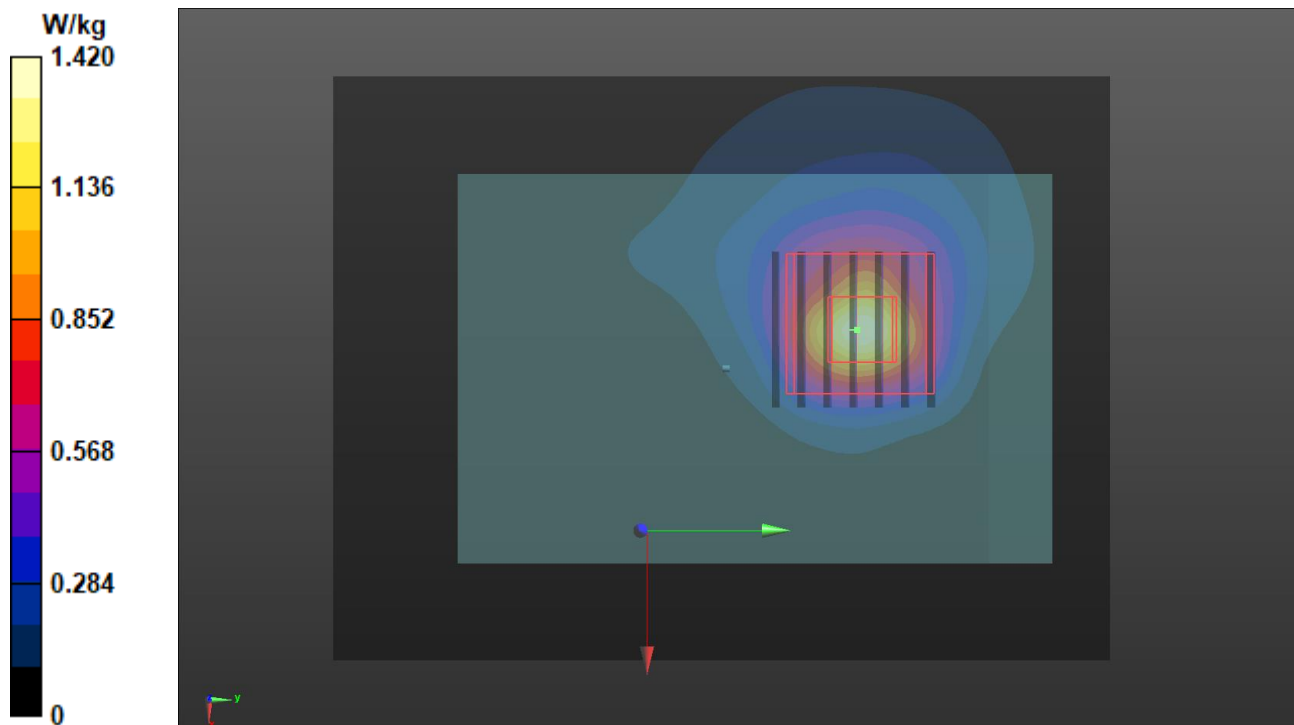
Peak SAR (extrapolated) = 2.34 W/kg

SAR(1 g) = 0.582 W/kg; SAR(10 g) = 0.196 W/kg (SAR corrected for target medium)

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

Ratio of SAR at M2 to SAR at M1 = 64.2%

Maximum value of SAR (measured) = 1.33 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/06/28

P13 WLAN5.6G_802.11a_0mm_Bottom Side_Ch124

DUT: BFMG-WTW-P22060328

Communication System: UID 10062 - CAD, IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps); Frequency: 5620 MHz; Duty Cycle: 1:1.09

Medium: H34T60N1_0628 Medium parameters used (interpolated): $f = 5620$ MHz; $\sigma = 5.141$ S/m; $\epsilon_r = 34.322$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(4.8, 4.8, 4.8) @ 5620 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 (91x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.15 W/kg

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

Reference Value = 15.85 V/m; Power Drift = -0.07 dB

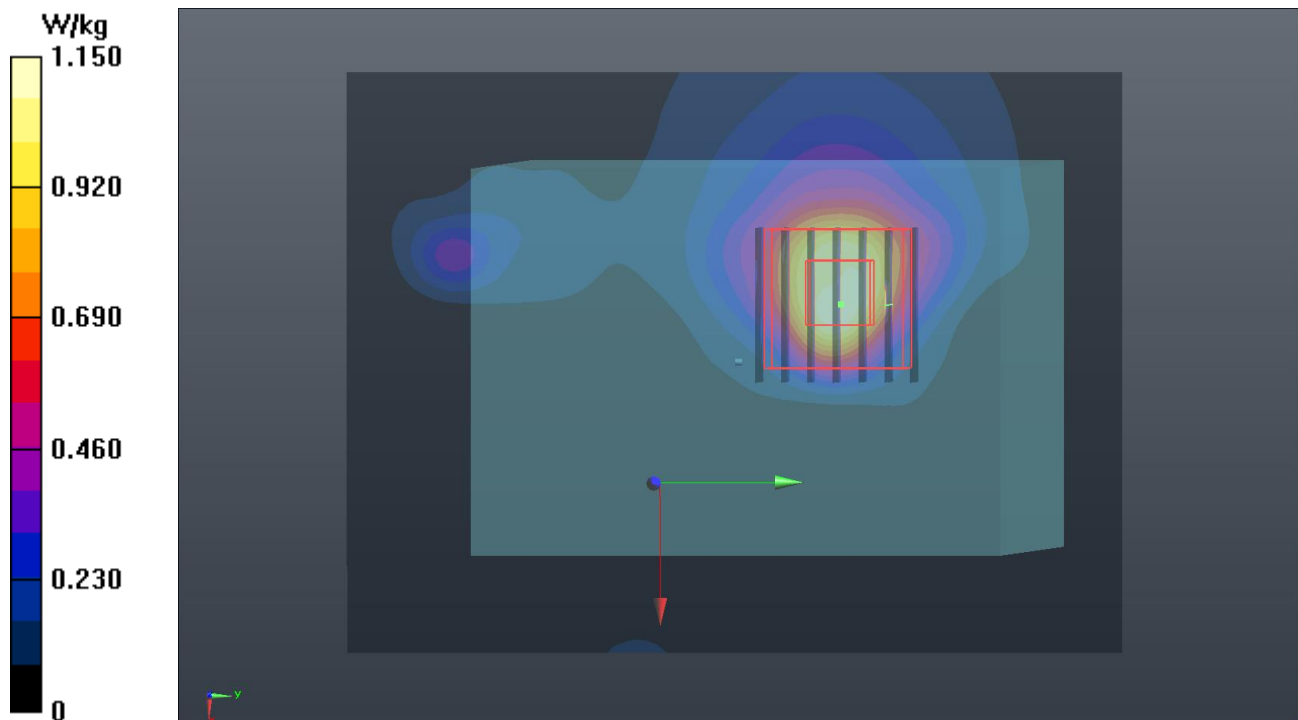
Peak SAR (extrapolated) = 2.07 W/kg

SAR(1 g) = 0.522 W/kg; SAR(10 g) = 0.169 W/kg (SAR corrected for target medium)

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

Ratio of SAR at M2 to SAR at M1 = 61.3%

Maximum value of SAR (measured) = 1.71 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/06/28

P14 WLAN5.8G _802.11n HT40_Rear Face_0mm_Ch159

DUT: BFMG-WTW-P22060328

Communication System: UID 10599 - AAC, IEEE 802.11n (HT Mixed, 40MHz, MCS0); Frequency: 5795 MHz; Duty Cycle: 1:1.15

Medium: H34T60N1_0628 Medium parameters used (interpolated): $f = 5795$ MHz; $\sigma = 5.313$ S/m; $\epsilon_r = 34.079$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(5.06, 5.06, 5.06) @ 5795 MHz; Calibrated: 2022/03/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2022/03/23
- Phantom: Twin-SAM V8.0_1988; Type: QD 000 P41 AA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (111x201x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.44 W/kg

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

Reference Value = 18.11 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 2.39 W/kg

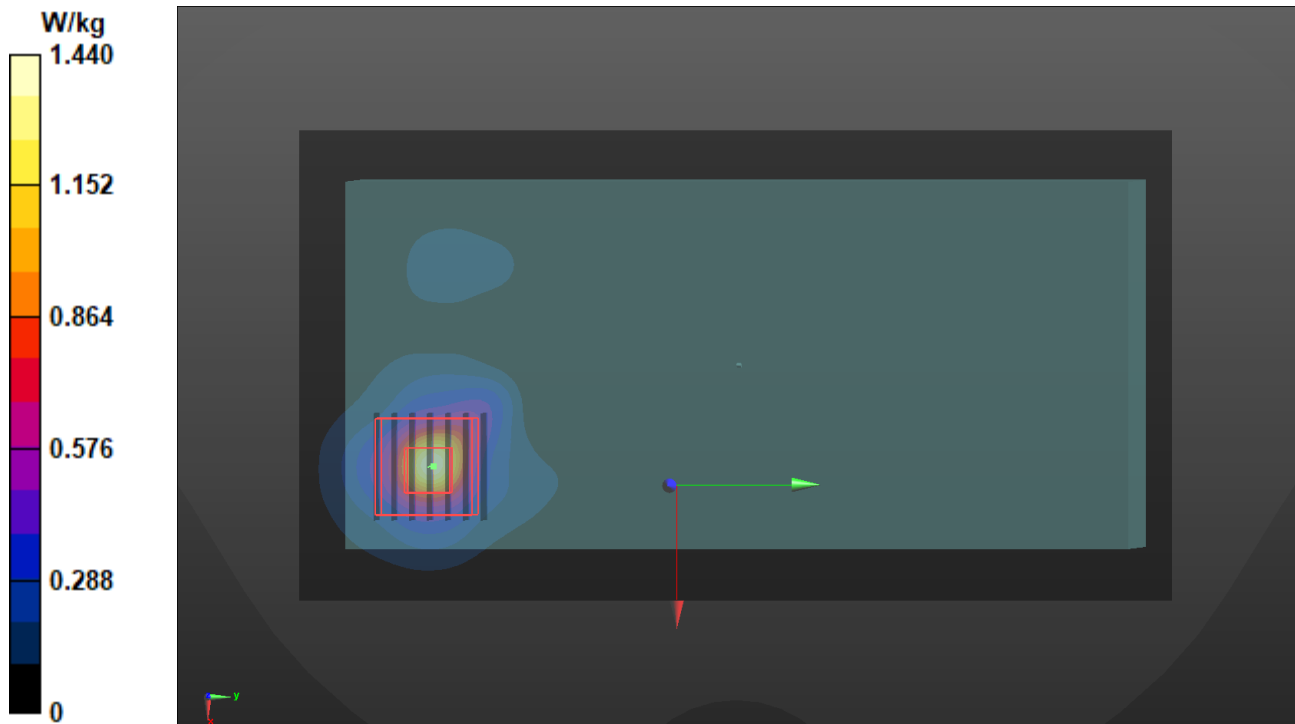
SAR(1 g) = 0.547 W/kg; SAR(10 g) = 0.165 W/kg (SAR corrected for target medium)

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

Ratio of SAR at M2 to SAR at M1 = 60.9%

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

Plots of Measurement



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/06/28

P15 BT_BDR_Left Side_0mm_Ch0

DUT: BFMG-WTW-P22060328

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

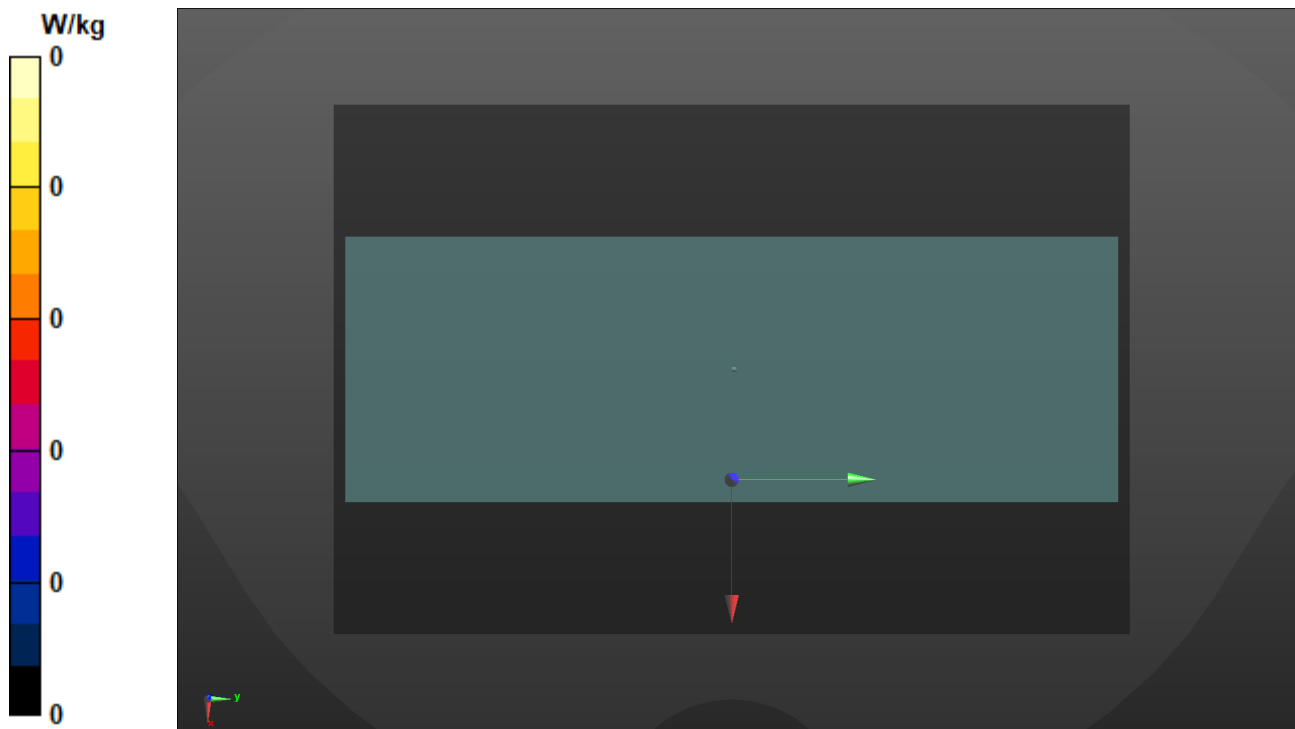
Medium: H19T27N3_0628 Medium parameters used: $f = 2402$ MHz; $\sigma = 1.769$ S/m; $\epsilon_r = 38.151$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(7.82, 7.82, 7.82) @ 2402 MHz; Calibrated: 2022/03/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2022/03/23
- Phantom: Twin-SAM V8.0_1988; Type: QD 000 P41 AA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (101x151x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm
Maximum value of SAR (interpolated) = 0 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 ± 10 % of the target values. Liquid temperature during the SAR testing has kept within ± 2 °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 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)
S01	835	23.4	0.915	40.603	0.9	41.5	1.67	-2.16	Pass	Pass	Pass	N/A	N/A	N/A	Jul. 30, 2022	835	6.19	0.296	5.91	-4.59	4d121	3971	1277	17
S02	1900	23.3	1.459	38.999	1.4	40	4.21	-2.50	Pass	Pass	Pass	N/A	N/A	N/A	Jul. 28, 2022	1900	21.10	1.02	20.35	-3.55	5d036	3971	1277	17
S03	1900	23.3	1.459	38.999	1.4	40	4.21	-2.50	Pass	Pass	Pass	N/A	N/A	N/A	Jul. 28, 2022	1900	21.10	1.02	20.35	-3.55	5d036	3971	1277	17
S04	1750	23.2	1.368	38.841	1.37	40.1	-0.15	-3.14	Pass	Pass	Pass	N/A	N/A	N/A	Jul. 29, 2022	1750	18.60	0.899	17.94	-3.56	1055	7537	1585	17
S05	835	23.4	0.915	40.603	0.9	41.5	1.67	-2.16	Pass	Pass	Pass	N/A	N/A	N/A	Jul. 30, 2022	835	6.19	0.296	5.91	-4.59	4d121	3971	1277	17
S06	1900	23.3	1.459	38.999	1.4	40	4.21	-2.50	Pass	Pass	Pass	N/A	N/A	N/A	Jul. 28, 2022	1900	21.10	1.02	20.35	-3.55	5d036	3971	1277	17
S07	1750	23.3	1.332	39.529	1.37	40.1	-2.77	-1.42	Pass	Pass	Pass	N/A	N/A	N/A	Jul. 29, 2022	1750	18.60	0.885	17.66	-5.06	1055	3971	1277	17
S08	835	23.4	0.915	40.603	0.9	41.5	1.67	-2.16	Pass	Pass	Pass	N/A	N/A	N/A	Jul. 30, 2022	835	6.19	0.296	5.91	-4.59	4d121	3971	1277	17
S09	2600	23.3	2.032	37.484	1.96	39	3.67	-3.89	Pass	Pass	Pass	N/A	N/A	N/A	Jul. 28, 2022	2600	25.70	1.26	25.14	-2.18	1020	3971	1277	17
S10	1750	23.3	1.332	39.529	1.37	40.1	-2.77	-1.42	Pass	Pass	Pass	N/A	N/A	N/A	Jul. 29, 2022	1750	18.60	0.885	17.66	-5.06	1055	3971	1277	17
S11	2450	23.4	1.805	38.053	1.8	39.2	0.28	-2.93	Pass	Pass	Pass	OFDM	N/A	Pass	Jun. 28, 2022	2450	23.90	1.15	22.95	-3.99	737	3650	861	17
S12	5250	23.4	4.795	34.862	4.71	35.9	1.80	-2.89	Pass	Pass	Pass	OFDM	N/A	Pass	Jun. 28, 2022	5250	23.00	1.17	23.34	1.50	1019	3650	861	17
S13	5600	23.4	5.122	34.362	5.07	35.5	1.03	-3.21	Pass	Pass	Pass	OFDM	N/A	Pass	Jun. 28, 2022	5600	23.30	1.22	24.34	4.47	1019	3650	861	17
S14	5750	23.4	5.268	34.153	5.22	35.4	0.92	-3.52	Pass	Pass	Pass	OFDM	N/A	Pass	Jun. 28, 2022	5750	22.40	1.09	21.75	-2.91	1019	3650	861	17
S15	2450	23.4	1.805	38.053	1.8	39.2	0.28	-2.93	Pass	Pass	Pass	OFDM	N/A	Pass	Jun. 28, 2022	2450	23.90	1.15	22.95	-3.99	737	3650	861	17

Annex D. Maximum Target Conducted Power

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

GSM Max. Tune-up Power (Full)				
Mode	GSM850	GSM850	GSM1900	GSM1900
	Maximum Burst-Averaged Output Power	Maximum Frame-Averaged Output Power	Maximum Burst-Averaged Output Power	Maximum Frame-Averaged Output Power
	Maximum Target Power	Maximum Target Power	Maximum Target Power	Maximum Target Power
GSM (GMSK, 1Tx-slot)	33.0	24.0	30.0	21.0
GPRS (GMSK, 1Tx-slot)	33.0	24.0	30.0	21.0
GPRS (GMSK, 2Tx-slot)	33.0	27.0	30.0	24.0
GPRS (GMSK, 3Tx-slot)	31.5	27.2	28.5	24.2
GPRS (GMSK, 4Tx-slot)	29.5	26.5	26.5	23.5
EDGE (8PSK, 1Tx-slot)	27.0	18.0	26.0	17.0
EDGE (8PSK, 2Tx-slot)	26.5	20.5	25.5	19.5
EDGE (8PSK, 3Tx-slot)	25.0	20.7	24.0	19.7
EDGE (8PSK, 4Tx-slot)	23.0	20.0	22.0	19.0

WCDMA Max. Tune-up Power (Full)		
Mode	RMC 12.2K	HSDPA DC-HSDPA HSUPA
	Maximum Target Power	Maximum Target Power
WCDMA Band II	23.5	23.5
WCDMA Band IV	22.5	22.5
WCDMA Band V	23.0	23.0

LTE Max. Tune-up Power (Full)		
Mode	QPSK	16QAM
	Maximum Target Power	Maximum Target Power
LTE 2	23.0	22.0
LTE 4	22.9	21.9
LTE 5	23.0	22.0
LTE 7	23.0	22.0
LTE 66	23.0	22.0

WLAN Tune-up Power (Full)			
WLAN 2.4GHz			
Mode	Channel	Frequency	SISO Ant 0 Max Tune up
802.11b	1	2412	16.5
	6	2437	17.0
	11	2462	17.0
802.11g	1	2412	14.0
	6	2437	14.0
	11	2462	14.5
802.11n HT20	1	2412	13.5
	6	2437	14.0
	11	2462	14.0

WLAN Tune-up Power (Full)			
Bluetooth			
Mode	Channel	Frequency	Ant 0 Max Tune-up
BR / EDR	0	2402	9.0
	39	2441	9.0
	78	2480	5.0
LE	0	2402	5.0
	19	2440	5.5
	39	2480	1.5

WLAN Tune-up Power (Full)			
WLAN 5.2GHz			
Mode	Channel	Frequency	SISO Ant 0 Max Tune up
802.11a	36	5180	14.0
	40	5200	14.0
	44	5220	14.0
	48	5240	14.0
802.11n HT20	36	5180	14.0
	40	5200	14.0
	44	5220	13.5
	48	5240	13.5
802.11n HT40	38	5190	13.0
	46	5230	14.0
802.11ac VHT20	36	5180	14.0
	40	5200	14.0
	44	5220	13.5
	48	5240	13.5
802.11ac VHT40	38	5190	14.0
	46	5230	14.0
802.11ac VHT80	42	5210	9.0

WLAN Tune-up Power (Full)			
WLAN 5.3GHz			
Mode	Channel	Frequency	SISO Ant 0 Max Tune up
802.11a	52	5260	13.5
	56	5280	14.0
	60	5300	14.0
	64	5320	14.0
802.11n HT20	52	5260	13.5
	56	5280	13.5
	60	5300	13.5
	64	5320	13.5
802.11n HT40	54	5270	13.5
	62	5310	13.5
802.11ac VHT20	52	5260	13.5
	56	5280	13.5
	60	5300	13.5
	64	5320	13.5
802.11ac VHT40	54	5270	13.5
	62	5310	13.5
802.11ac VHT80	58	5290	12.0

WLAN Tune-up Power (Full)			
WLAN 5.6GHz			
Mode	Channel	Frequency	SISO Ant 0 Max Tune up
802.11a	100	5500	13.5
	116	5580	14.0
	120	5600	13.5
	124	5620	14.0
	132	5660	14.0
	140	5700	14.0
802.11n HT20	100	5500	13.5
	116	5580	14.0
	120	5600	13.5
	124	5620	13.5
	132	5660	13.5
	140	5700	13.5
802.11n HT40	102	5510	13.5
	110	5550	13.5
	118	5590	13.5
	126	5630	13.5
	134	5670	13.5
802.11ac VHT20	100	5500	14.0
	116	5580	14.0
	120	5600	13.5
	124	5620	13.5
	132	5660	13.5
	140	5700	13.5
802.11ac VHT40	102	5510	13.5
	110	5550	13.5
	118	5590	13.5
	126	5630	13.5
	134	5670	13.5
802.11ac VHT80	106	5530	9.5
	122	5610	12.5

WLAN Tune-up Power (Full)			
WLAN 5.8GHz			
Mode	Channel	Frequency	SISO Ant 0 Max Tune up
802.11a	149	5745	14.0
	153	5765	14.0
	157	5785	14.0
	161	5805	14.0
	165	5825	14.0
802.11n HT20	149	5745	14.0
	153	5765	13.5
	157	5785	14.0
	161	5805	13.5
	165	5825	13.5
802.11n HT40	151	5755	14.0
	159	5795	14.0
802.11ac VHT20	149	5745	14.0
	153	5765	13.5
	157	5785	14.0
	161	5805	13.5
	165	5825	13.5
802.11ac VHT40	151	5755	14.0
	159	5795	14.0
802.11ac VHT80	155	5775	13.0

Annex E. Measured Conducted Power Result

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

GSM Conducted Power (Full)						
Band	GSM850			GSM1900		
Channel	128	189	251	512	661	810
Frequency	824.2	836.4	848.8	1850.2	1880	1909.8
GSM	32.83	32.54	32.83	29.62	29.41	29.50
GPRS 1Tx Slot	32.84	32.74	32.81	29.63	29.43	29.52
GPRS 2Tx Slot	32.82	32.73	32.80	29.61	29.40	29.49
GPRS 3Tx Slot	31.26	31.14	31.24	28.04	27.92	28.07
GPRS 4Tx Slot	29.19	29.07	29.15	26.08	26.02	26.18
EDGE 1Tx Slot (MCS9)	26.31	26.48	26.52	25.05	25.02	25.74
EDGE 2Tx Slot (MCS9)	26.05	26.19	26.35	24.93	24.84	25.46
EDGE 3Tx Slot (MCS9)	24.12	24.63	24.71	23.12	23.29	23.64
EDGE 4Tx Slot (MCS9)	22.09	22.53	22.56	21.01	21.21	21.52

WCDMA Conducted Power (Full)									
Band	WCDMA II			WCDMA IV			WCDMA V		
TX Channel	9262	9400	9538	1312	1413	1513	4132	4182	4233
Rx Channel	9662	9800	9938	1537	1638	1738	4357	4407	4458
Frequency	1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6
RMC 12.2K	22.86	22.56	23.12	21.88	21.83	21.82	22.53	22.81	22.41
HSDPA Subtest-1	21.53	21.54	22.10	20.83	20.87	20.99	21.51	21.79	21.39
HSDPA Subtest-2	21.52	21.51	22.02	20.74	20.81	21.11	21.43	21.71	21.31
HSDPA Subtest-3	21.12	21.09	21.54	20.45	20.22	20.04	20.95	21.23	20.83
HSDPA Subtest-4	21.08	21.06	21.62	20.43	20.21	20.02	21.03	21.31	20.91
HSUPA Subtest-1	21.51	21.53	22.09	20.76	20.79	21.08	21.50	21.78	21.38
HSUPA Subtest-2	20.52	20.62	21.18	18.55	18.53	18.55	20.59	20.87	20.47
HSUPA Subtest-3	21.47	21.57	22.13	19.95	19.87	19.86	21.54	21.82	21.42
HSUPA Subtest-4	19.91	20.01	20.57	18.51	18.52	18.54	19.98	20.26	19.86

LTE Conducted Power (Full)							
LTE Band 2							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		18700	18900	19100	
		Frequency (MHz)		1860	1880	1900	
20M	QPSK	1	0	22.73	22.99	22.79	0
		1	50	22.71	22.71	22.62	0
		1	99	22.44	22.54	22.43	0
		50	0	21.71	21.73	21.68	1
		50	25	21.68	21.69	21.67	1
		50	50	21.48	21.52	21.41	1
		100	0	21.61	21.63	21.54	1
20M	16QAM	1	0	21.88	21.86	21.84	1
		1	50	21.86	21.85	21.83	1
		1	99	21.73	21.82	21.72	1
		50	0	20.86	20.86	20.83	2
		50	25	20.78	20.79	20.71	2
		50	50	20.58	20.58	20.57	2
		100	0	20.55	20.62	20.49	2
BW	MCS Index	Channel		18675	18900	19125	3GPP MPR
		Frequency (MHz)		1857.5	1880	1902.5	
15M	QPSK	1	0	22.63	22.97	22.74	0
		1	37	22.66	22.67	22.58	0
		1	74	22.35	22.49	22.41	0
		36	0	21.71	21.65	21.56	1
		36	19	21.67	21.59	21.63	1
		36	39	21.40	21.50	21.36	1
		75	0	21.61	21.54	21.53	1
15M	16QAM	1	0	21.85	21.81	21.82	1
		1	37	21.88	21.75	21.79	1
		1	74	21.64	21.74	21.64	1
		36	0	20.77	20.77	20.76	2
		36	19	20.75	20.70	20.62	2
		36	39	20.52	20.58	20.54	2
		75	0	20.50	20.59	20.41	2

LTE Conducted Power (Full)							
LTE Band 2							
BW	MCS Index	Channel		18650	18900	19150	3GPP MPR
		Frequency (MHz)		1855	1880	1905	
10M	QPSK	1	0	22.59	22.95	22.73	0
		1	24	22.58	22.67	22.58	0
		1	49	22.29	22.46	22.35	0
		25	0	21.57	21.60	21.54	1
		25	12	21.55	21.54	21.53	1
		25	25	21.36	21.35	21.30	1
		50	0	21.49	21.43	21.50	1
10M	16QAM	1	0	21.75	21.79	21.76	1
		1	24	21.73	21.77	21.75	1
		1	49	21.56	21.62	21.61	1
		25	0	20.70	20.67	20.70	2
		25	12	20.65	20.57	20.50	2
		25	25	20.42	20.56	20.44	2
		50	0	20.43	20.57	20.31	2
BW	MCS Index	Channel		18625	18900	19175	3GPP MPR
		Frequency (MHz)		1852.5	1880	1907.5	
5M	QPSK	1	0	22.56	22.93	22.69	0
		1	12	22.54	22.58	22.54	0
		1	24	22.22	22.45	22.26	0
		12	0	21.61	21.55	21.54	1
		12	6	21.64	21.53	21.49	1
		12	13	21.36	21.50	21.16	1
		25	0	21.57	21.39	21.37	1
5M	16QAM	1	0	21.75	21.73	21.71	1
		1	12	21.68	21.68	21.69	1
		1	24	21.61	21.65	21.51	1
		12	0	20.74	20.72	20.73	2
		12	6	20.64	20.60	20.48	2
		12	13	20.48	20.53	20.52	2
		25	0	20.37	20.52	20.28	2

LTE Conducted Power (Full)							
LTE Band 2							
BW	MCS Index	Channel		18615	18900	19185	3GPP MPR
		Frequency (MHz)		1851.5	1880	1908.5	
3M	QPSK	1	0	22.62	22.91	22.61	0
		1	7	22.60	22.61	22.49	0
		1	14	22.33	22.34	22.27	0
		8	0	21.68	21.53	21.44	1
		8	3	21.53	21.50	21.54	1
		8	7	21.32	21.47	21.28	1
		15	0	21.59	21.42	21.39	1
3M	16QAM	1	0	21.81	21.82	21.83	1
		1	7	21.79	21.75	21.82	1
		1	14	21.54	21.72	21.49	1
		8	0	20.63	20.68	20.69	2
		8	3	20.64	20.57	20.61	2
		8	7	20.46	20.52	20.51	2
		15	0	20.43	20.50	20.36	2
BW	MCS Index	Channel		18607	18900	19193	3GPP MPR
		Frequency (MHz)		1850.7	1880	1909.3	
1.4M	QPSK	1	0	22.57	22.89	22.59	0
		1	2	22.51	22.63	22.47	0
		1	5	22.28	22.43	22.39	0
		3	0	22.65	22.51	22.55	0
		3	1	22.64	22.55	22.50	0
		3	3	22.30	22.39	22.21	0
		6	0	21.49	21.53	21.46	1
1.4M	16QAM	1	0	21.89	21.88	21.89	1
		1	2	21.84	21.84	21.85	1
		1	5	21.55	21.70	21.58	1
		3	0	21.71	21.67	21.66	1
		3	1	21.60	21.66	21.47	1
		3	3	21.46	21.54	21.46	1
		6	0	20.40	20.47	20.29	2

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	21.97	22.27	21.87	0
		1	50	21.90	21.93	21.86	0
		1	99	21.65	21.65	21.64	0
		50	0	20.66	20.69	20.59	1
		50	25	20.48	20.51	20.48	1
		50	50	20.44	20.45	20.35	1
		100	0	20.43	20.48	20.42	1
20M	16QAM	1	0	21.20	21.24	21.15	1
		1	50	21.07	21.08	21.07	1
		1	99	20.80	20.89	20.78	1
		50	0	19.66	19.66	19.60	2
		50	25	19.45	19.54	19.39	2
		50	50	19.40	19.44	19.36	2
		100	0	19.45	19.52	19.40	2
BW	MCS Index	Channel		20025	20175	20325	3GPP MPR
		Frequency (MHz)		1717.5	1732.5	1747.5	
15M	QPSK	1	0	21.94	22.20	21.64	0
		1	37	21.83	21.85	21.76	0
		1	74	21.65	21.64	21.57	0
		36	0	20.64	20.62	20.57	1
		36	19	20.38	20.48	20.39	1
		36	39	20.44	20.41	20.31	1
		75	0	20.34	20.48	20.41	1
15M	16QAM	1	0	21.19	21.16	21.09	1
		1	37	21.01	21.03	21.07	1
		1	74	20.72	20.88	20.74	1
		36	0	19.58	19.59	19.51	2
		36	19	19.37	19.52	19.33	2
		36	39	19.31	19.35	19.30	2
		75	0	19.45	19.46	19.40	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	21.93	22.11	21.50	0
		1	24	21.69	21.85	21.65	0
		1	49	21.56	21.50	21.42	0
		25	0	20.60	20.61	20.53	1
		25	12	20.38	20.40	20.34	1
		25	25	20.33	20.30	20.21	1
		50	0	20.29	20.40	20.39	1
10M	16QAM	1	0	21.18	21.12	21.07	1
		1	24	20.86	20.96	21.06	1
		1	49	20.71	20.77	20.61	1
		25	0	19.48	19.44	19.41	2
		25	12	19.27	19.49	19.32	2
		25	25	19.24	19.27	19.15	2
		50	0	19.37	19.41	19.37	2
BW	MCS Index	Channel		19975	20175	20375	3GPP MPR
		Frequency (MHz)		1712.5	1732.5	1752.5	
5M	QPSK	1	0	21.85	22.18	21.41	0
		1	12	21.74	21.85	21.64	0
		1	24	21.63	21.56	21.28	0
		12	0	20.63	20.57	20.44	1
		12	6	20.25	20.37	20.32	1
		12	13	20.44	20.32	20.09	1
		25	0	20.20	20.40	20.29	1
5M	16QAM	1	0	21.04	21.15	21.06	1
		1	12	20.87	20.92	21.06	1
		1	24	20.57	20.85	20.69	1
		12	0	19.52	19.56	19.39	2
		12	6	19.29	19.47	19.29	2
		12	13	19.17	19.21	19.20	2
		25	0	19.31	19.45	19.30	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	21.89	22.11	21.62	0
		1	7	21.72	21.71	21.69	0
		1	14	21.53	21.59	21.57	0
		8	0	20.61	20.49	20.51	1
		8	3	20.25	20.39	20.32	1
		8	7	20.43	20.31	20.17	1
		15	0	20.32	20.35	20.33	1
3M	16QAM	1	0	21.05	21.10	21.02	1
		1	7	20.93	20.93	20.93	1
		1	14	20.69	20.82	20.63	1
		8	0	19.44	19.56	19.47	2
		8	3	19.35	19.44	19.19	2
		8	7	19.31	19.23	19.17	2
		15	0	19.37	19.45	19.40	2
BW	MCS Index	Channel		19957	20175	20393	3GPP MPR
		Frequency (MHz)		1710.7	1732.5	1754.3	
1.4M	QPSK	1	0	21.86	22.07	21.50	0
		1	2	21.74	21.77	21.67	0
		1	5	21.51	21.54	21.51	0
		3	0	21.50	21.59	21.55	0
		3	1	21.31	21.43	21.26	0
		3	3	21.32	21.39	21.24	0
		6	0	20.20	20.43	20.35	1
1.4M	16QAM	1	0	21.05	21.13	21.02	1
		1	2	20.88	20.96	20.93	1
		1	5	20.60	20.83	20.61	1
		3	0	20.56	20.52	20.37	1
		3	1	20.24	20.49	20.32	1
		3	3	20.17	20.30	20.17	1
		6	0	19.33	19.34	19.28	2

LTE Conducted Power (Full)							
LTE Band 5							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		20450	20525	20600	
		Frequency (MHz)		829	836.5	844	
10M	QPSK	1	0	22.41	22.51	22.47	0
		1	24	22.39	22.45	22.27	0
		1	49	22.22	22.28	22.21	0
		25	0	21.49	21.61	21.51	1
		25	12	21.30	21.47	21.35	1
		25	25	21.29	21.43	21.29	1
		50	0	21.35	21.46	21.39	1
10M	16QAM	1	0	21.84	21.87	21.76	1
		1	24	21.60	21.63	21.53	1
		1	49	21.48	21.57	21.36	1
		25	0	20.88	20.82	20.85	2
		25	12	20.46	20.51	20.48	2
		25	25	20.33	20.44	20.33	2
		50	0	20.37	20.48	20.39	2
BW	MCS Index	Channel		20425	20525	20625	3GPP MPR
		Frequency (MHz)		826.5	836.5	846.5	
5M	QPSK	1	0	21.95	22.32	22.09	0
		1	12	22.37	22.29	22.16	0
		1	24	22.21	22.16	22.05	0
		12	0	21.38	21.41	21.41	1
		12	6	21.21	21.37	21.16	1
		12	13	21.29	21.20	21.14	1
		25	0	21.27	21.32	21.32	1
5M	16QAM	1	0	21.73	21.80	21.61	1
		1	12	21.47	21.53	21.38	1
		1	24	21.41	21.44	21.36	1
		12	0	20.81	20.79	20.81	2
		12	6	20.31	20.37	20.46	2
		12	13	20.25	20.19	20.30	2
		25	0	20.28	20.31	20.31	2

LTE Conducted Power (Full)							
LTE Band 5							
BW	MCS Index	Channel		20415	20525	20635	3GPP MPR
		Frequency (MHz)		825.5	836.5	847.5	
3M	QPSK	1	0	22.00	22.39	22.37	0
		1	7	22.39	22.32	22.16	0
		1	14	22.08	22.10	22.08	0
		8	0	21.40	21.43	21.41	1
		8	3	21.19	21.35	21.23	1
		8	7	21.23	21.21	21.28	1
		15	0	21.33	21.32	21.39	1
3M	16QAM	1	0	21.79	21.81	21.70	1
		1	7	21.58	21.51	21.49	1
		1	14	21.42	21.36	21.26	1
		8	0	20.79	20.78	20.75	2
		8	3	20.32	20.27	20.42	2
		8	7	20.20	20.26	20.25	2
		15	0	20.34	20.31	20.28	2
BW	MCS Index	Channel		20407	20525	20643	3GPP MPR
		Frequency (MHz)		824.7	836.5	848.3	
1.4M	QPSK	1	0	22.48	22.49	22.39	0
		1	2	22.32	22.30	22.14	0
		1	5	22.14	22.18	22.09	0
		3	0	22.09	22.03	22.29	0
		3	1	22.25	22.31	22.35	0
		3	3	22.16	22.34	22.20	0
		6	0	21.29	21.34	21.26	1
1.4M	16QAM	1	0	21.74	21.85	21.62	1
		1	2	21.47	21.47	21.46	1
		1	5	21.39	21.42	21.27	1
		3	0	20.74	20.73	20.72	1
		3	1	21.40	21.41	21.47	1
		3	3	21.19	21.30	21.18	1
		6	0	20.32	20.37	20.24	2

LTE Conducted Power (Full)							
LTE Band 7							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		20850	21100	21350	
		Frequency (MHz)		2510	2535	2560	
20M	QPSK	1	0	22.33	22.71	22.11	0
		1	50	22.31	22.34	22.07	0
		1	99	21.90	21.92	21.86	0
		50	0	21.70	21.74	21.64	1
		50	25	21.46	21.47	21.39	1
		50	50	21.04	21.07	21.03	1
		100	0	21.24	21.32	21.18	1
20M	16QAM	1	0	21.99	21.97	21.89	1
		1	50	21.67	21.69	21.63	1
		1	99	21.19	21.21	21.16	1
		50	0	20.86	20.86	20.81	2
		50	25	20.51	20.59	20.50	2
		50	50	20.22	20.31	20.18	2
		100	0	20.40	20.48	20.31	2
BW	MCS Index	Channel		20825	21100	21375	3GPP MPR
		Frequency (MHz)		2507.5	2535	2562.5	
15M	QPSK	1	0	22.24	22.64	22.04	0
		1	37	22.26	22.29	22.24	0
		1	74	21.89	21.86	21.77	0
		36	0	21.60	21.68	21.64	1
		36	19	21.36	21.40	21.38	1
		36	39	21.00	21.04	20.97	1
		75	0	21.15	21.25	21.11	1
15M	16QAM	1	0	21.92	21.93	21.79	1
		1	37	21.62	21.66	21.63	1
		1	74	21.19	21.17	21.10	1
		36	0	20.86	20.78	20.75	2
		36	19	20.45	20.50	20.43	2
		36	39	20.16	20.25	20.14	2
		75	0	20.40	20.38	20.28	2

LTE Conducted Power (Full)							
LTE Band 7							
BW	MCS Index	Channel		20800	21100	21400	3GPP MPR
		Frequency (MHz)		2505	2535	2565	
10M	QPSK	1	0	22.14	22.52	22.02	0
		1	24	22.20	22.15	22.14	0
		1	49	21.88	21.78	21.76	0
		25	0	21.47	21.54	21.53	1
		25	12	21.27	21.27	21.35	1
		25	25	20.92	20.98	20.95	1
		50	0	21.01	21.13	20.96	1
10M	16QAM	1	0	21.85	21.80	21.70	1
		1	24	21.57	21.63	21.50	1
		1	49	21.15	21.06	21.04	1
		25	0	20.75	20.69	20.69	2
		25	12	20.41	20.49	20.40	2
		25	25	20.07	20.16	20.05	2
		50	0	20.38	20.31	20.18	2
BW	MCS Index	Channel		20775	21100	21425	3GPP MPR
		Frequency (MHz)		2502.5	2535	2567.5	
5M	QPSK	1	0	22.18	22.59	21.92	0
		1	12	22.25	22.24	22.06	0
		1	24	21.75	21.73	21.70	0
		12	0	21.57	21.62	21.51	1
		12	6	21.28	21.32	21.23	1
		12	13	20.85	20.91	20.82	1
		25	0	21.05	21.24	20.85	1
5M	16QAM	1	0	21.86	21.90	21.76	1
		1	12	21.53	21.63	21.60	1
		1	24	21.11	21.02	21.01	1
		12	0	20.85	20.78	20.69	2
		12	6	20.36	20.44	20.41	2
		12	13	20.15	20.21	20.03	2
		25	0	20.40	20.32	20.23	2

LTE Conducted Power (Full)							
LTE Band 66							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		132072	132322	132572	
		Frequency (MHz)		1720	1745	1770	
20M	QPSK	1	0	22.82	22.21	22.05	0
		1	50	22.47	22.14	22.01	0
		1	99	21.89	21.89	21.89	0
		50	0	21.74	21.67	21.57	1
		50	25	21.54	21.52	21.48	1
		50	50	21.34	21.26	21.26	1
		100	0	21.56	21.54	21.54	1
20M	16QAM	1	0	21.44	21.36	21.33	1
		1	50	21.94	21.84	21.76	1
		1	99	21.17	21.16	21.06	1
		50	0	20.60	20.58	20.57	2
		50	25	20.87	20.87	20.82	2
		50	50	20.45	20.35	20.27	2
		100	0	20.62	20.61	20.58	2
BW	MCS Index	Channel		132047	132322	132597	3GPP MPR
		Frequency (MHz)		1717.5	1745	1772.5	
15M	QPSK	1	0	22.77	22.13	22.01	0
		1	37	22.39	22.08	21.92	0
		1	74	21.84	21.87	21.81	0
		36	0	21.73	21.62	21.50	1
		36	19	21.54	21.46	21.43	1
		36	39	21.26	21.21	21.16	1
		75	0	21.47	21.49	21.53	1
15M	16QAM	1	0	21.41	21.30	21.23	1
		1	37	21.86	21.78	21.75	1
		1	74	21.17	21.13	21.03	1
		36	0	20.59	20.57	20.54	2
		36	19	20.79	20.83	20.78	2
		36	39	20.40	20.28	20.21	2
		75	0	20.58	20.52	20.51	2

LTE Conducted Power (Full)							
LTE Band 66							
BW	MCS Index	Channel		132022	132322	132622	3GPP MPR
		Frequency (MHz)		1715	1745	1775	
10M	QPSK	1	0	22.75	22.12	22.04	0
		1	24	22.46	22.05	22.00	0
		1	49	21.85	21.83	21.84	0
		25	0	21.72	21.60	21.52	1
		25	12	21.47	21.48	21.43	1
		25	25	21.27	21.17	21.24	1
		50	0	21.48	21.46	21.47	1
10M	16QAM	1	0	21.41	21.34	21.27	1
		1	24	21.87	21.84	21.69	1
		1	49	21.15	21.13	21.06	1
		25	0	20.50	20.48	20.51	2
		25	12	20.81	20.86	20.81	2
		25	25	20.38	20.26	20.24	2
		50	0	20.56	20.52	20.50	2
BW	MCS Index	Channel		131997	132322	132647	3GPP MPR
		Frequency (MHz)		1712.5	1745	1777.5	
5M	QPSK	1	0	22.78	22.12	22.05	0
		1	12	22.47	22.06	21.95	0
		1	24	21.83	21.79	21.86	0
		12	0	21.65	21.63	21.51	1
		12	6	21.54	21.46	21.38	1
		12	13	21.32	21.16	21.23	1
		25	0	21.51	21.46	21.49	1
5M	16QAM	1	0	21.35	21.34	21.31	1
		1	12	21.87	21.80	21.66	1
		1	24	21.13	21.10	20.98	1
		12	0	20.57	20.48	20.53	2
		12	6	20.79	20.77	20.82	2
		12	13	20.42	20.31	20.17	2
		25	0	20.62	20.52	20.49	2

LTE Conducted Power (Full)							
LTE Band 66							
BW	MCS Index	Channel		131987	132322	132657	3GPP MPR
		Frequency (MHz)		1711.5	1745	1778.5	
3M	QPSK	1	0	22.71	22.18	21.98	0
		1	7	22.39	22.05	21.91	0
		1	14	21.86	21.80	21.88	0
		8	0	21.64	21.62	21.51	1
		8	3	21.54	21.45	21.44	1
		8	7	21.25	21.23	21.16	1
		15	0	21.48	21.45	21.45	1
3M	16QAM	1	0	21.39	21.35	21.30	1
		1	7	21.84	21.82	21.70	1
		1	14	21.10	21.07	21.06	1
		8	0	20.60	20.55	20.57	2
		8	3	20.84	20.80	20.82	2
		8	7	20.44	20.29	20.26	2
		15	0	20.54	20.61	20.48	2
BW	MCS Index	Channel		131979	132322	132665	3GPP MPR
		Frequency (MHz)		1710.7	1745	1779.3	
1.4M	QPSK	1	0	22.60	22.08	21.94	0
		1	2	22.38	22.01	21.85	0
		1	5	21.75	21.70	21.85	0
		3	0	22.49	22.51	22.42	0
		3	1	22.47	22.32	22.30	0
		3	3	22.21	22.10	22.15	0
		6	0	21.43	21.31	21.45	1
1.4M	16QAM	1	0	21.31	21.29	21.24	1
		1	2	21.69	21.68	21.67	1
		1	5	20.97	21.06	20.92	1
		3	0	21.47	21.42	21.53	1
		3	1	21.81	21.67	21.73	1
		3	3	21.42	21.18	21.23	1
		6	0	20.50	20.49	20.42	2

WLAN Conducted Power (Full)			
WLAN2.4GHz Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11b	1	2412	16.45
	6	2437	16.92
	11	2462	16.85
802.11g	1	2412	13.61
	6	2437	13.96
	11	2462	14.06
802.11n HT20	1	2412	13.2
	6	2437	13.59
	11	2462	13.68

WLAN Conducted Power (Full)			
Bluetooth Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
BR / EDR	0	2402	8.66
	39	2441	8.64
	78	2480	4.68
LE	0	2402	4.89
	19	2440	5.05
	39	2480	1.35

WLAN Conducted Power (Full)			
WLAN 5.2GHz Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11a	36	5180	13.62
	40	5200	13.71
	44	5220	13.89
	48	5240	13.56
802.11n HT20	36	5180	13.79
	40	5200	13.66
	44	5220	13.2
	48	5240	13.34
802.11n HT40	38	5190	12.93
	46	5230	13.62
802.11ac VHT20	36	5180	13.77
	40	5200	13.65
	44	5220	13.19
	48	5240	13.31
802.11ac VHT40	38	5190	13.71
	46	5230	13.58
802.11ac VHT80	42	5210	8.24

WLAN Conducted Power (Full)			
WLAN 5.3GHz Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11a	52	5260	13.43
	56	5280	13.68
	60	5300	13.77
	64	5320	13.1
802.11n HT20	52	5260	13.42
	56	5280	13.15
	60	5300	13.34
	64	5320	13.35
802.11n HT40	54	5270	13.41
	62	5310	13.29
802.11ac VHT20	52	5260	13.39
	56	5280	13.11
	60	5300	13.31
	64	5320	13.32
802.11ac VHT40	54	5270	13.38
	62	5310	13.27
802.11ac VHT80	58	5290	11.89

WLAN Conducted Power (Full)			
WLAN 5.6GHz Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11a	100	5500	13.21
	116	5580	13.57
	120	5600	13.47
	124	5620	13.77
	132	5660	13.55
	140	5700	13.68
802.11n HT20	100	5500	13.1
	116	5580	13.59
	120	5600	13.26
	124	5620	13.29
	132	5660	13.36
	140	5700	13.49
802.11n HT40	102	5510	13.1
	110	5550	13.33
	118	5590	13.38
	126	5630	13.27
	134	5670	13.41
802.11ac VHT20	100	5500	13.6
	116	5580	13.55
	120	5600	13.24
	124	5620	13.27
	132	5660	13.35
	140	5700	13.44
802.11ac VHT40	102	5510	13.34
	110	5550	13.31
	118	5590	13.36
	126	5630	13.26
	134	5670	13.38
802.11ac VHT80	106	5530	9.13
	122	5610	12.45

WLAN Conducted Power (Full)			
WLAN 5.8GHz Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11a	149	5745	13.81
	153	5765	13.71
	157	5785	13.82
	161	5805	13.61
	165	5825	13.78
802.11n HT20	149	5745	13.55
	153	5765	13.21
	157	5785	13.6
	161	5805	13.18
	165	5825	13.32
802.11n HT40	151	5755	13.77
	159	5795	13.59
802.11ac VHT20	149	5745	13.52
	153	5765	13.19
	157	5785	13.58
	161	5805	13.14
	165	5825	13.28
802.11ac VHT40	151	5755	13.75
	159	5795	13.56
802.11ac VHT80	155	5775	12.75

Annex F. SAR Test Result

SAR Results for Extremity Exposure Condition.

Note:

1. SAR testing for WLAN was performed on the maximum power mode.
2. SAR testing for LTE 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.

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)
	GSM850	GPRS11	Front Face	0	128			-	1.00	31.50	31.26	1.06	-0.12	0.254	0.27
	GSM850	GPRS11	Rear Face	0	128			-	1.00	31.50	31.26	1.06	0.05	0.429	0.45
	GSM850	GPRS11	Left Side	0	128			-	1.00	31.50	31.26	1.06	-0.13	0.3	0.32
1	GSM850	GPRS11	Right Side	0	128			-	1.00	31.50	31.26	1.06	-0.13	0.528	0.56
	GSM850	GPRS11	Top Side	0	128			-	1.00	31.50	31.26	1.06	-0.12	0.179	0.19
	GSM850	GPRS11	Bottom Side	0	128			-	1.00	31.50	31.26	1.06	-0.17	0.046	0.05
	GSM850	GPRS11	Right Side	0	189			-	1.00	31.50	31.14	1.09	0.04	0.482	0.53
	GSM850	GPRS11	Right Side	0	251			-	1.00	31.50	31.24	1.06	0.13	0.496	0.53
	GSM1900	GPRS11	Front Face	0	810			-	1.00	28.50	28.07	1.10	-0.03	0.063	0.07
	GSM1900	GPRS11	Rear Face	0	810			-	1.00	28.50	28.07	1.10	0.18	2.98	3.28
	GSM1900	GPRS11	Left Side	0	810			-	1.00	28.50	28.07	1.10	0.16	0.082	0.09
	GSM1900	GPRS11	Right Side	0	810			-	1.00	28.50	28.07	1.10	-0.19	1.1	1.21
	GSM1900	GPRS11	Top Side	0	810			-	1.00	28.50	28.07	1.10	-0.15	0.293	0.32
	GSM1900	GPRS11	Bottom Side	0	810			-	1.00	28.50	28.07	1.10	-0.18	0.043	0.05
2	GSM1900	GPRS11	Rear Face	0	512			-	1.00	28.50	28.04	1.11	-0.05	3.11	3.45
	GSM1900	GPRS11	Rear Face	0	661			-	1.00	28.50	27.92	1.14	0.09	2.87	3.27
	GSM1900	GPRS11	Rear Face	0	512			-	1.00	28.50	28.04	1.11	0.15	3.08	3.42
	WCDMA II	RMC12.2K	Front Face	0	9538			-	1.00	23.50	23.12	1.09	0.19	0.072	0.08
	WCDMA II	RMC12.2K	Rear Face	0	9538			-	1.00	23.50	23.12	1.09	0.13	2.65	2.89
	WCDMA II	RMC12.2K	Left Side	0	9538			-	1.00	23.50	23.12	1.09	0.12	0.094	0.10
	WCDMA II	RMC12.2K	Right Side	0	9538			-	1.00	23.50	23.12	1.09	0.11	0.994	1.08
	WCDMA II	RMC12.2K	Top Side	0	9538			-	1.00	23.50	23.12	1.09	0.13	0.256	0.28
	WCDMA II	RMC12.2K	Bottom Side	0	9538			-	1.00	23.50	23.12	1.09	-0.07	0.052	0.06
3	WCDMA II	RMC12.2K	Rear Face	0	9262			-	1.00	23.50	22.86	1.16	0.17	2.88	3.34
	WCDMA II	RMC12.2K	Rear Face	0	9400			-	1.00	23.50	22.56	1.24	0.11	2.46	3.05
	WCDMA II	RMC12.2K	Rear Face	0	9262			-	1.00	23.50	22.86	1.16	-0.1	2.86	3.32
	WCDMA IV	RMC12.2K	Front Face	0	1312			-	1.00	22.50	21.88	1.15	0.06	0.164	0.19
4	WCDMA IV	RMC12.2K	Rear Face	0	1312			-	1.00	22.50	21.88	1.15	-0.08	2.89	3.32
	WCDMA IV	RMC12.2K	Left Side	0	1312			-	1.00	22.50	21.88	1.15	0.1	0.116	0.13
	WCDMA IV	RMC12.2K	Right Side	0	1312			-	1.00	22.50	21.88	1.15	-0.1	0.297	0.34
	WCDMA IV	RMC12.2K	Top Side	0	1312			-	1.00	22.50	21.88	1.15	0.08	0.341	0.39
	WCDMA IV	RMC12.2K	Bottom Side	0	1312			-	1.00	22.50	21.88	1.15	0	<0.001	0.00
	WCDMA IV	RMC12.2K	Rear Face	0	1413			-	1.00	22.50	21.83	1.17	0.02	2.25	2.63
	WCDMA IV	RMC12.2K	Rear Face	0	1513			-	1.00	22.50	21.82	1.17	0.04	2.51	2.94
	WCDMA IV	RMC12.2K	Rear Face	0	1312			-	1.00	22.50	21.88	1.15	-0.06	2.88	3.31

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)
5	WCDMA V	RMC12.2K	Front Face	0	4182			-	1.00	23.00	22.81	1.04	0.09	0.102	0.11
	WCDMA V	RMC12.2K	Rear Face	0	4182			-	1.00	23.00	22.81	1.04	0.01	0.171	0.18
	WCDMA V	RMC12.2K	Left Side	0	4182			-	1.00	23.00	22.81	1.04	0.11	0.117	0.12
	WCDMA V	RMC12.2K	Right Side	0	4182			-	1.00	23.00	22.81	1.04	0.11	0.213	0.22
	WCDMA V	RMC12.2K	Top Side	0	4182			-	1.00	23.00	22.81	1.04	-0.01	0.071	0.07
	WCDMA V	RMC12.2K	Bottom Side	0	4182			-	1.00	23.00	22.81	1.04	0	<0.001	0.00
	WCDMA V	RMC12.2K	Right Side	0	4132			-	1.00	23.00	22.53	1.11	0.07	0.147	0.16
	WCDMA V	RMC12.2K	Right Side	0	4233			-	1.00	23.00	22.41	1.15	0.07	0.163	0.19
6	LTE 2	QPSK20M	Front Face	0	18900	1	0	-	1.00	23.00	22.99	1.00	-0.14	0.066	0.07
	LTE 2	QPSK20M	Rear Face	0	18900	1	0	-	1.00	23.00	22.99	1.00	0.17	3.13	3.13
	LTE 2	QPSK20M	Left Side	0	18900	1	0	-	1.00	23.00	22.99	1.00	-0.04	0.117	0.12
	LTE 2	QPSK20M	Right Side	0	18900	1	0	-	1.00	23.00	22.99	1.00	0.17	0.701	0.70
	LTE 2	QPSK20M	Top Side	0	18900	1	0	-	1.00	23.00	22.99	1.00	0.11	0.284	0.28
	LTE 2	QPSK20M	Bottom Side	0	18900	1	0	-	1.00	23.00	22.99	1.00	-0.1	0.039	0.04
	LTE 2	QPSK20M	Front Face	0	18900	50	0	-	1.00	22.00	21.73	1.06	0.14	0.05	0.05
	LTE 2	QPSK20M	Rear Face	0	18900	50	0	-	1.00	22.00	21.73	1.06	0.14	2.21	2.34
	LTE 2	QPSK20M	Left Side	0	18900	50	0	-	1.00	22.00	21.73	1.06	0.07	0.082	0.09
	LTE 2	QPSK20M	Right Side	0	18900	50	0	-	1.00	22.00	21.73	1.06	-0.1	0.694	0.74
	LTE 2	QPSK20M	Top Side	0	18900	50	0	-	1.00	22.00	21.73	1.06	0.01	0.22	0.23
	LTE 2	QPSK20M	Bottom Side	0	18900	50	0	-	1.00	22.00	21.73	1.06	-0.03	0.03	0.03
	LTE 2	QPSK20M	Rear Face	0	18900	100	0	-	1.00	22.00	21.63	1.09	-0.01	2.17	2.37
	LTE 2	QPSK20M	Rear Face	0	18700	1	0	-	1.00	23.00	22.73	1.06	-0.14	3.17	3.36
	LTE 2	QPSK20M	Rear Face	0	19100	1	0	-	1.00	23.00	22.79	1.05	0.14	2.75	2.89
	LTE 2	QPSK20M	Rear Face	0	18700	50	0	-	1.00	22.00	21.71	1.07	-0.06	2.17	2.32
	LTE 2	QPSK20M	Rear Face	0	19100	50	0	-	1.00	22.00	21.68	1.08	-0.15	2.06	2.22
	LTE 2	QPSK20M	Rear Face	0	18700	1	0	-	1.00	23.00	22.73	1.06	0.05	3.13	3.32

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	Front Face	0	20175	1	0	-	1.00	22.90	22.27	1.16	-0.07	0.158	0.18
	LTE 4	QPSK20M	Rear Face	0	20175	1	0	-	1.00	22.90	22.27	1.16	0.09	2.74	3.18
	LTE 4	QPSK20M	Left Side	0	20175	1	0	-	1.00	22.90	22.27	1.16	0.19	0.109	0.13
	LTE 4	QPSK20M	Right Side	0	20175	1	0	-	1.00	22.90	22.27	1.16	-0.17	0.21	0.24
	LTE 4	QPSK20M	Top Side	0	20175	1	0	-	1.00	22.90	22.27	1.16	-0.15	0.264	0.31
	LTE 4	QPSK20M	Bottom Side	0	20175	1	0	-	1.00	22.90	22.27	1.16	0	<0.001	0.00
	LTE 4	QPSK20M	Front Face	0	20175	50	0	-	1.00	21.90	20.69	1.32	-0.17	0.096	0.13
	LTE 4	QPSK20M	Rear Face	0	20175	50	0	-	1.00	21.90	20.69	1.32	0.17	1.89	2.49
	LTE 4	QPSK20M	Left Side	0	20175	50	0	-	1.00	21.90	20.69	1.32	-0.12	0.086	0.11
	LTE 4	QPSK20M	Right Side	0	20175	50	0	-	1.00	21.90	20.69	1.32	-0.16	0.146	0.19
	LTE 4	QPSK20M	Top Side	0	20175	50	0	-	1.00	21.90	20.69	1.32	-0.14	0.195	0.26
	LTE 4	QPSK20M	Bottom Side	0	20175	50	0	-	1.00	21.90	20.69	1.32	0	<0.001	0.00
	LTE 4	QPSK20M	Rear Face	0	20175	100	0	-	1.00	21.90	20.48	1.39	-0.14	1.87	2.60
7	LTE 4	QPSK20M	Rear Face	0	20050	1	0	-	1.00	22.90	21.97	1.24	-0.18	2.82	3.50
	LTE 4	QPSK20M	Rear Face	0	20300	1	0	-	1.00	22.90	21.87	1.27	-0.02	2.34	2.97
	LTE 4	QPSK20M	Rear Face	0	20050	50	0	-	1.00	21.90	20.66	1.33	0.06	2.22	2.95
	LTE 4	QPSK20M	Rear Face	0	20300	50	0	-	1.00	21.90	20.59	1.35	-0.14	1.93	2.61
	LTE 4	QPSK20M	Rear Face	0	20050	1	0	-	1.00	22.90	21.97	1.24	0.01	2.72	3.37
	LTE 5	QPSK10M	Front Face	0	20525	1	0	-	1.00	23.00	22.51	1.12	-0.01	0.131	0.15
	LTE 5	QPSK10M	Rear Face	0	20525	1	0	-	1.00	23.00	22.51	1.12	-0.16	0.18	0.20
	LTE 5	QPSK10M	Left Side	0	20525	1	0	-	1.00	23.00	22.51	1.12	-0.03	0.116	0.13
8	LTE 5	QPSK10M	Right Side	0	20525	1	0	-	1.00	23.00	22.51	1.12	-0.1	0.229	0.26
	LTE 5	QPSK10M	Top Side	0	20525	1	0	-	1.00	23.00	22.51	1.12	0.04	0.066	0.07
	LTE 5	QPSK10M	Bottom Side	0	20525	1	0	-	1.00	23.00	22.51	1.12	0.13	0.038	0.04
	LTE 5	QPSK10M	Front Face	0	20525	25	0	-	1.00	22.00	21.61	1.09	0.12	0.102	0.11
	LTE 5	QPSK10M	Rear Face	0	20525	25	0	-	1.00	22.00	21.61	1.09	-0.14	0.142	0.15
	LTE 5	QPSK10M	Left Side	0	20525	25	0	-	1.00	22.00	21.61	1.09	-0.1	0.088	0.10
	LTE 5	QPSK10M	Right Side	0	20525	25	0	-	1.00	22.00	21.61	1.09	-0.08	0.18	0.20
	LTE 5	QPSK10M	Top Side	0	20525	25	0	-	1.00	22.00	21.61	1.09	0.02	0.052	0.06
	LTE 5	QPSK10M	Bottom Side	0	20525	25	0	-	1.00	22.00	21.61	1.09	-0.12	0.028	0.03
	LTE 5	QPSK10M	Right Side	0	20450	1	0	-	1.00	23.00	22.41	1.15	0.01	0.162	0.19
	LTE 5	QPSK10M	Right Side	0	20600	1	0	-	1.00	23.00	22.47	1.13	0.04	0.195	0.22

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 7	QPSK20M	Front Face	0	21100	1	0	-	1.00	23.00	22.71	1.07	0.13	0.1	0.11
	LTE 7	QPSK20M	Rear Face	0	21100	1	0	-	1.00	23.00	22.71	1.07	0.17	1.83	1.96
	LTE 7	QPSK20M	Left Side	0	21100	1	0	-	1.00	23.00	22.71	1.07	-0.04	0.064	0.07
	LTE 7	QPSK20M	Right Side	0	21100	1	0	-	1.00	23.00	22.71	1.07	-0.19	0.406	0.43
	LTE 7	QPSK20M	Top Side	0	21100	1	0	-	1.00	23.00	22.71	1.07	-0.11	0.204	0.22
	LTE 7	QPSK20M	Bottom Side	0	21100	1	0	-	1.00	23.00	22.71	1.07	0	<0.001	0.00
	LTE 7	QPSK20M	Front Face	0	21100	50	0	-	1.00	22.00	21.74	1.06	-0.16	0.088	0.09
	LTE 7	QPSK20M	Rear Face	0	21100	50	0	-	1.00	22.00	21.74	1.06	-0.03	1.74	1.84
	LTE 7	QPSK20M	Left Side	0	21100	50	0	-	1.00	22.00	21.74	1.06	-0.08	0.055	0.06
	LTE 7	QPSK20M	Right Side	0	21100	50	0	-	1.00	22.00	21.74	1.06	-0.07	0.356	0.38
	LTE 7	QPSK20M	Top Side	0	21100	50	0	-	1.00	22.00	21.74	1.06	0.11	0.171	0.18
	LTE 7	QPSK20M	Bottom Side	0	21100	50	0	-	1.00	22.00	21.74	1.06	0	<0.001	0.00
	LTE 7	QPSK20M	Rear Face	0	21100	100	0	-	1.00	22.00	21.32	1.17	-0.19	1.56	1.83
	LTE 7	QPSK20M	Rear Face	0	20850	1	0	-	1.00	23.00	22.33	1.17	-0.18	1.79	2.09
9	LTE 7	QPSK20M	Rear Face	0	21350	1	0	-	1.00	23.00	22.11	1.23	-0.08	1.9	2.34
	LTE 66	QPSK20M	Front Face	0	132072	1	0	-	1.00	23.00	22.82	1.04	-0.18	0.186	0.19
10	LTE 66	QPSK20M	Rear Face	0	132072	1	0	-	1.00	23.00	22.82	1.04	-0.17	3.1	3.22
	LTE 66	QPSK20M	Left Side	0	132072	1	0	-	1.00	23.00	22.82	1.04	0.02	0.155	0.16
	LTE 66	QPSK20M	Right Side	0	132072	1	0	-	1.00	23.00	22.82	1.04	0.12	0.19	0.20
	LTE 66	QPSK20M	Top Side	0	132072	1	0	-	1.00	23.00	22.82	1.04	0.06	0.367	0.38
	LTE 66	QPSK20M	Bottom Side	0	132072	1	0	-	1.00	23.00	22.82	1.04	0.15	0.027	0.03
	LTE 66	QPSK20M	Front Face	0	132072	50	0	-	1.00	22.00	21.74	1.06	0.06	0.148	0.16
	LTE 66	QPSK20M	Rear Face	0	132072	50	0	-	1.00	22.00	21.74	1.06	0.13	2.68	2.84
	LTE 66	QPSK20M	Left Side	0	132072	50	0	-	1.00	22.00	21.74	1.06	-0.1	0.116	0.12
	LTE 66	QPSK20M	Right Side	0	132072	50	0	-	1.00	22.00	21.74	1.06	0.14	0.167	0.18
	LTE 66	QPSK20M	Top Side	0	132072	50	0	-	1.00	22.00	21.74	1.06	0.19	0.253	0.27
	LTE 66	QPSK20M	Bottom Side	0	132072	50	0	-	1.00	22.00	21.74	1.06	0	<0.001	0.00
	LTE 66	QPSK20M	Rear Face	0	132072	100	0	-	1.00	22.00	21.56	1.11	0.15	2.64	2.93
	LTE 66	QPSK20M	Rear Face	0	132322	1	0	-	1.00	23.00	22.21	1.20	-0.16	2.66	3.19
	LTE 66	QPSK20M	Rear Face	0	132572	1	0	-	1.00	23.00	22.05	1.24	0.1	2.3	2.85
	LTE 66	QPSK20M	Rear Face	0	132322	50	0	-	1.00	22.00	21.67	1.08	0.16	2.29	2.47
	LTE 66	QPSK20M	Rear Face	0	132572	50	0	-	1.00	22.00	21.57	1.10	-0.05	2.37	2.61
	LTE 66	QPSK20M	Rear Face	0	132072	1	0	-	1.00	23.00	22.82	1.04	0.09	3.08	3.20

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)
11	WLAN2.4G	802.11b	Front Face	0	6			99.08	1.01	17.00	16.92	1.02	0.02	0.14	0.14
	WLAN2.4G	802.11b	Rear Face	0	6			99.08	1.01	17.00	16.92	1.02	-0.01	0.134	0.14
	WLAN2.4G	802.11b	Left Side	0	6			99.08	1.01	17.00	16.92	1.02	-0.01	0.413	0.43
	WLAN2.4G	802.11b	Right Side	0	6			99.08	1.01	17.00	16.92	1.02	0	<0.001	0.00
	WLAN2.4G	802.11b	Top Side	0	6			99.08	1.01	17.00	16.92	1.02	0	<0.001	0.00
	WLAN2.4G	802.11b	Bottom Side	0	6			99.08	1.01	17.00	16.92	1.02	-0.15	0.221	0.23
	WLAN2.4G	802.11b	Left Side	0	1			99.08	1.01	16.50	16.45	1.01	0.18	0.327	0.33
	WLAN2.4G	802.11b	Left Side	0	11			99.08	1.01	17.00	16.85	1.04	-0.06	0.401	0.42
12	WLAN5.3G	802.11a	Front Face	0	60			91.50	1.09	14.00	13.77	1.05	0.05	0.015	0.02
	WLAN5.3G	802.11a	Rear Face	0	60			91.50	1.09	14.00	13.77	1.05	-0.14	0.17	0.19
	WLAN5.3G	802.11a	Left Side	0	60			91.50	1.09	14.00	13.77	1.05	-0.01	0.069	0.08
	WLAN5.3G	802.11a	Right Side	0	60			91.50	1.09	14.00	13.77	1.05	0	<0.001	0.00
	WLAN5.3G	802.11a	Top Side	0	60			91.50	1.09	14.00	13.77	1.05	0	<0.001	0.00
	WLAN5.3G	802.11a	Bottom Side	0	60			91.50	1.09	14.00	13.77	1.05	-0.17	0.196	0.22
	WLAN5.3G	802.11a	Bottom Side	0	52			91.50	1.09	13.50	13.43	1.02	-0.07	0.191	0.21
	WLAN5.3G	802.11a	Bottom Side	0	56			91.50	1.09	14.00	13.68	1.08	0.1	0.188	0.22
	WLAN5.3G	802.11a	Bottom Side	0	64			91.50	1.09	13.50	13.10	1.10	0.19	0.184	0.22
13	WLAN5.6G	802.11a	Front Face	0	124			91.50	1.09	14.00	13.77	1.05	0.02	0.014	0.02
	WLAN5.6G	802.11a	Rear Face	0	124			91.50	1.09	14.00	13.77	1.05	0.18	0.131	0.15
	WLAN5.6G	802.11a	Left Side	0	124			91.50	1.09	14.00	13.77	1.05	0.14	0.057	0.07
	WLAN5.6G	802.11a	Right Side	0	124			91.50	1.09	14.00	13.77	1.05	0	<0.001	0.00
	WLAN5.6G	802.11a	Top Side	0	124			91.50	1.09	14.00	13.77	1.05	0	<0.001	0.00
	WLAN5.6G	802.11a	Bottom Side	0	124			91.50	1.09	14.00	13.77	1.05	-0.07	0.169	0.19
	WLAN5.6G	802.11a	Bottom Side	0	100			91.50	1.09	13.50	13.21	1.07	0.03	0.141	0.16
	WLAN5.6G	802.11a	Bottom Side	0	116			91.50	1.09	14.00	13.57	1.10	0.04	0.147	0.18
	WLAN5.6G	802.11a	Bottom Side	0	120			91.50	1.09	13.50	13.47	1.01	-0.11	0.135	0.15
	WLAN5.6G	802.11a	Bottom Side	0	132			91.50	1.09	14.00	13.55	1.11	0.07	0.138	0.17
	WLAN5.6G	802.11a	Bottom Side	0	140			91.50	1.09	14.00	13.68	1.08	0.07	0.136	0.16
14	WLAN5.8G	802.11n HT40	Front Face	0	151			87.01	1.15	14.00	13.77	1.05	0.13	0.014	0.02
	WLAN5.8G	802.11n HT40	Rear Face	0	151			87.01	1.15	14.00	13.77	1.05	0.14	0.145	0.18
	WLAN5.8G	802.11n HT40	Left Side	0	151			87.01	1.15	14.00	13.77	1.05	0.02	0.055	0.07
	WLAN5.8G	802.11n HT40	Right Side	0	151			87.01	1.15	14.00	13.77	1.05	0	<0.001	0.00
	WLAN5.8G	802.11n HT40	Top Side	0	151			87.01	1.15	14.00	13.77	1.05	0	<0.001	0.00
	WLAN5.8G	802.11n HT40	Bottom Side	0	151			87.01	1.15	14.00	13.77	1.05	0.09	0.117	0.14
	WLAN5.8G	802.11n HT40	Rear Face	0	159			87.01	1.15	14.00	13.59	1.10	-0.08	0.165	0.21
15	BT	BDR	Front Face	0	0			77.10	1.30	9.00	8.66	1.08	0	<0.001	0.00
	BT	BDR	Rear Face	0	0			77.10	1.30	9.00	8.66	1.08	0	<0.001	0.00
	BT	BDR	Left Side	0	0			77.10	1.30	9.00	8.66	1.08	0	<0.001	0.00
	BT	BDR	Right Side	0	0			77.10	1.30	9.00	8.66	1.08	0	<0.001	0.00
	BT	BDR	Top Side	0	0			77.10	1.30	9.00	8.66	1.08	0	<0.001	0.00
	BT	BDR	Bottom Side	0	0			77.10	1.30	9.00	8.66	1.08	0	<0.001	0.00
	BT	BDR	Left Side	0	39			77.10	1.30	9.00	8.64	1.09	0	<0.001	0.00
	BT	BDR	Left Side	0	78			77.10	1.30	5.00	4.68	1.08	0	<0.001	0.00

Annex G. SAR Measurement Variability

SAR repeated measurement are shown as below.

Repeat SAR							
Plot	Band	Mode	Test Position	Ch.	Original Measured SAR-10g (W/kg)	1st Repeated SAR-10g (W/kg)	L/S Ratio
R02	GSM1900	GPRS11	Rear Face	512	3.11	3.08	1.01
R03	WCDMA II	RMC12.2K	Rear Face	9262	2.88	2.86	1.01
R04	WCDMA IV	RMC12.2K	Rear Face	1312	2.89	2.88	1.00
R06	LTE 2	QPSK20M	Rear Face	18700	3.17	3.13	1.01
R07	LTE 4	QPSK20M	Rear Face	20050	2.82	2.72	1.04
R10	LTE 66	QPSK20M	Rear Face	132072	3.1	3.08	1.01

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	Extremity Exposure Condition
A	WWAN + BT	Yes

Simultaneous Transmission SAR Evaluation (Extremity)				
Band	Position	1	2	A (1+2)
		Max WWAN	BT Ant 0	Summing result
		10g SAR W/kg	10g SAR W/kg	10g SAR W/kg
GSM850	Front Face	0.27	0.00	0.27
	Rear Face	0.45	0.00	0.45
	Left Side	0.32	0.00	0.32
	Right Side	0.56	0.00	0.56
	Top Side	0.19	0.00	0.19
	Bottom Side	0.05	0.00	0.05
GSM1900	Front Face	0.07	0.00	0.07
	Rear Face	3.45	0.00	3.45
	Left Side	0.09	0.00	0.09
	Right Side	1.21	0.00	1.21
	Top Side	0.32	0.00	0.32
	Bottom Side	0.05	0.00	0.05
WCDMA II	Front Face	0.08	0.00	0.08
	Rear Face	3.34	0.00	3.34
	Left Side	0.10	0.00	0.10
	Right Side	1.08	0.00	1.08
	Top Side	0.28	0.00	0.28
	Bottom Side	0.06	0.00	0.06
WCDMA IV	Front Face	0.19	0.00	0.19
	Rear Face	3.32	0.00	3.32
	Left Side	0.13	0.00	0.13
	Right Side	0.34	0.00	0.34
	Top Side	0.39	0.00	0.39
	Bottom Side	0.00	0.00	0.00
WCDMA V	Front Face	0.11	0.00	0.11
	Rear Face	0.18	0.00	0.18
	Left Side	0.12	0.00	0.12
	Right Side	0.22	0.00	0.22
	Top Side	0.07	0.00	0.07
	Bottom Side	0.00	0.00	0.00
LTE 2	Front Face	0.07	0.00	0.07
	Rear Face	3.36	0.00	3.36
	Left Side	0.12	0.00	0.12
	Right Side	0.74	0.00	0.74
	Top Side	0.28	0.00	0.28
	Bottom Side	0.04	0.00	0.04
LTE 4	Front Face	0.18	0.00	0.18
	Rear Face	3.50	0.00	3.50
	Left Side	0.13	0.00	0.13
	Right Side	0.24	0.00	0.24
	Top Side	0.31	0.00	0.31
	Bottom Side	0.00	0.00	0.00
LTE 5	Front Face	0.15	0.00	0.15
	Rear Face	0.20	0.00	0.20
	Left Side	0.13	0.00	0.13
	Right Side	0.26	0.00	0.26
	Top Side	0.07	0.00	0.07
	Bottom Side	0.04	0.00	0.04
LTE 7	Front Face	0.11	0.00	0.11
	Rear Face	2.34	0.00	2.34
	Left Side	0.07	0.00	0.07
	Right Side	0.43	0.00	0.43
	Top Side	0.22	0.00	0.22
	Bottom Side	0.00	0.00	0.00
LTE 66	Front Face	0.19	0.00	0.19
	Rear Face	3.22	0.00	3.22
	Left Side	0.16	0.00	0.16
	Right Side	0.20	0.00	0.20
	Top Side	0.38	0.00	0.38
	Bottom Side	0.03	0.00	0.03

Annex I. SAR to Peak Location Separation Ratio Analysis.

Since sum of simultaneous transmission SAR is less than the SAR limit for 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.

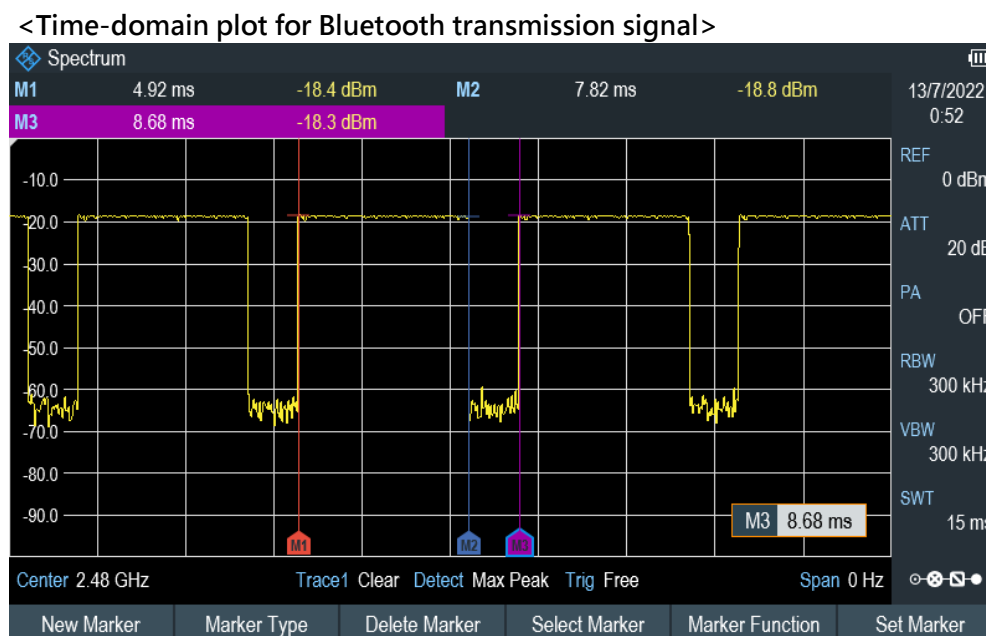
Equipment for SAR Test					
Equipment	Manufacturer	Model	SN	Cal. Date	Cal. Interval
System Validation Dipole	SPEAG	D835V2	4d121	Aug. 31, 2021	2 Year
System Validation Dipole	SPEAG	D1750V2	1055	Sep. 02, 2021	2 Year
System Validation Dipole	SPEAG	D1900V2	5d036	Jan. 22, 2021	2 Year
System Validation Dipole	SPEAG	D2450V2	737	Aug. 26, 2021	2 Year
System Validation Dipole	SPEAG	D2600V2	1020	Aug. 17, 2021	2 Year
System Validation Dipole	SPEAG	D5GHzV2	1019	Mar. 19, 2021	2 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	3971	Jan. 25, 2022	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	7537	Apr. 27, 2022	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	3650	Mar. 24, 2022	1 Year
Data Acquisition Electronics	SPEAG	DAE4	861	Mar. 23, 2022	1 Year
Data Acquisition Electronics	SPEAG	DAE4	1277	Jan. 19, 2022	1 Year
Data Acquisition Electronics	SPEAG	DAE4	1585	Apr. 21, 2022	1 Year
Universal Radio Communication Tester	Anritsu	MT8821C	6201381727	Aug. 24, 2021	1 Year
Universal Radio Communication Tester	R&S	CMW500	168045	Nov. 26, 2021	1 Year
Spectrum Analyzer	R&S	FPH	103560	Jan. 28, 2022	1 Year
Universal Wireless Test Set	Anritsu	MT8870A/MU887000A	6201699387	Sep. 22, 2021	1 Year
Thermometer	YFE	YF-160A	120702365	Aug. 06, 2021	1 Year
Dielectric Assessment Kit	SPEAG	DAKS-3.5	1092	May. 23, 2022	1 Year
Dielectric Assessment Kit	SPEAG	DAKS_VNA R140	0010917	May. 23, 2022	1 Year
Powersource1	SPEAG	SE_UMS_160 BA	4260	Jan. 13, 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.



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

$$\text{Duty Factor} = \text{Pulse Width} / \text{Total Period} = (7.82 - 4.92) / (8.68 - 4.92) = 77.13\%$$