

Plots of System Verification

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: 2022/03/29

S01 System Check_H1900_220329

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

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

Medium: H16T20N1_0329 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.457$ S/m; $\epsilon_r = 38.276$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3820; ConvF(7.35, 7.35, 7.35) @ 1900 MHz; Calibrated: 2021/07/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2022/02/23
- Phantom: ELI Phantom_1206; Type: QDOVA001BB;
- 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) = 3.36 W/kg

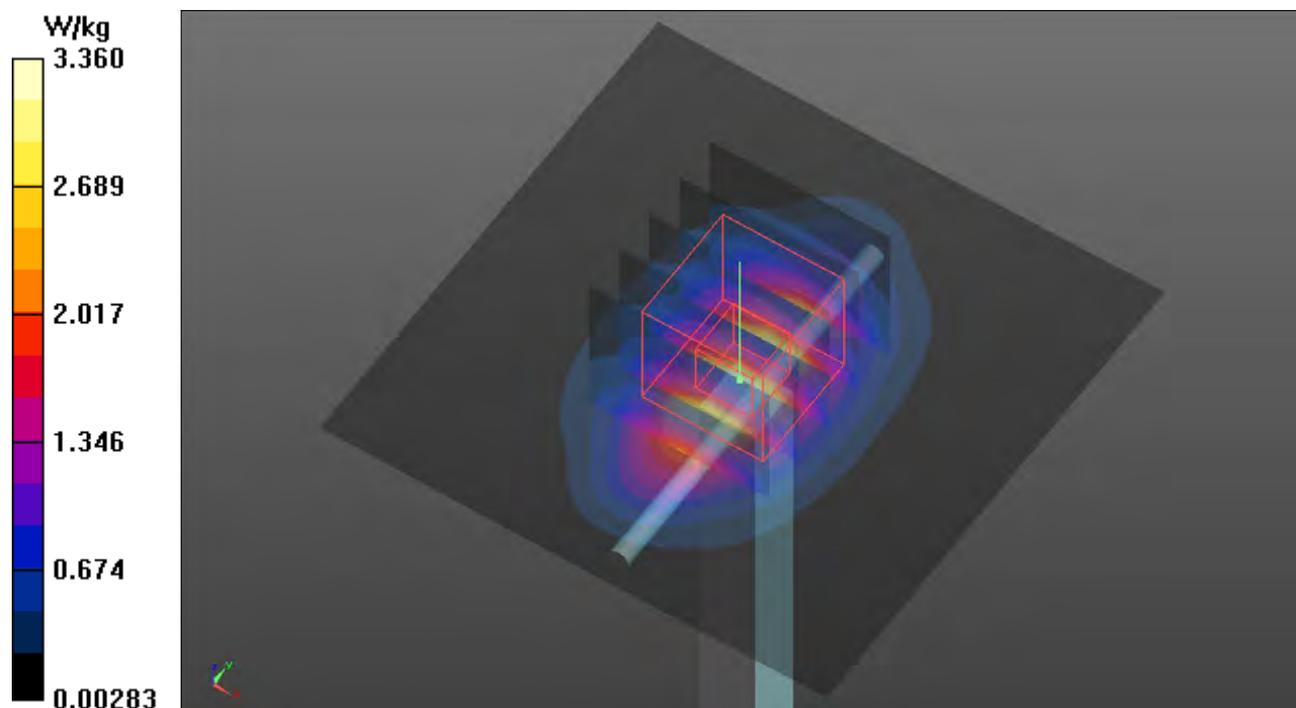
Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 49.61 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 4.13 W/kg

SAR(1 g) = 2.11 W/kg; SAR(10 g) = 1.08 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 3.43 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/26

S02 System Check_H1750_220326

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

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

Medium: H16T20N1_0326 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 : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(8.54, 8.54, 8.54) @ 1750 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 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) = 2.75 W/kg

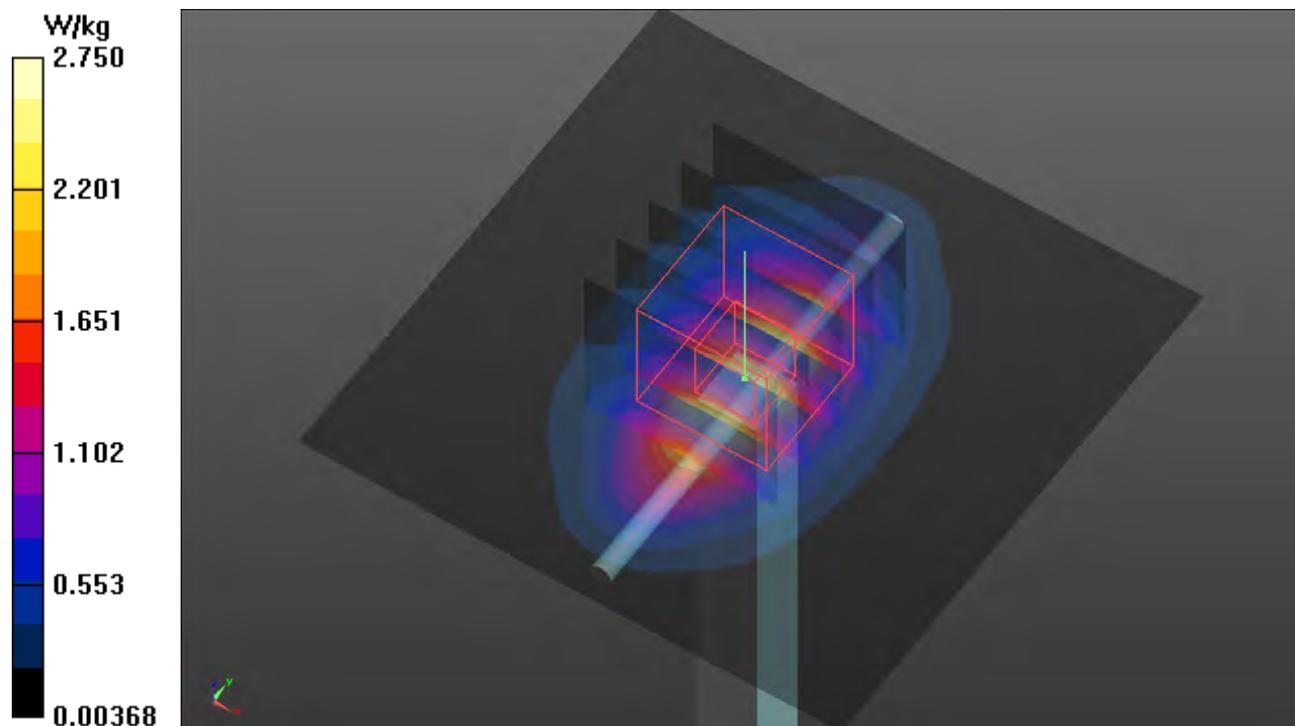
Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 46.25 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 3.23 W/kg

SAR(1 g) = 1.75 W/kg; SAR(10 g) = 0.940 W/kg (SAR corrected for target medium)

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



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/26

S03 System Check_H835_220326

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

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

Medium: H07T10N1_0326 Medium parameters used: $f = 835$ MHz; $\sigma = 0.931$ S/m; $\epsilon_r = 40.566$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(9.92, 9.92, 9.92) @ 835 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 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) = 0.648 W/kg

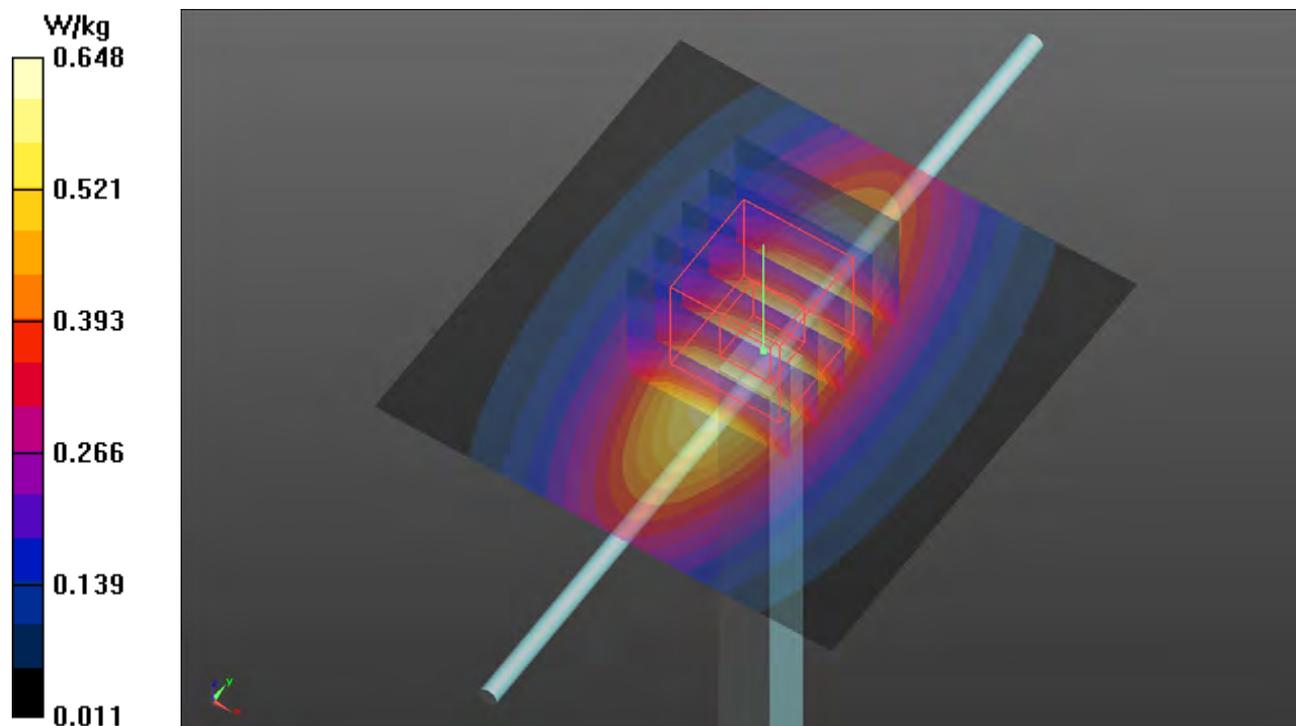
Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.79 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.737 W/kg

SAR(1 g) = 0.478 W/kg; SAR(10 g) = 0.316 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.655 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/29

S04 System Check_H1900_220329

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

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

Medium: H16T20N1_0329 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.457$ S/m; $\epsilon_r = 38.276$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3820; ConvF(7.35, 7.35, 7.35) @ 1900 MHz; Calibrated: 2021/07/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2022/02/23
- Phantom: ELI Phantom_1206; Type: QDOVA001BB;
- 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) = 3.36 W/kg

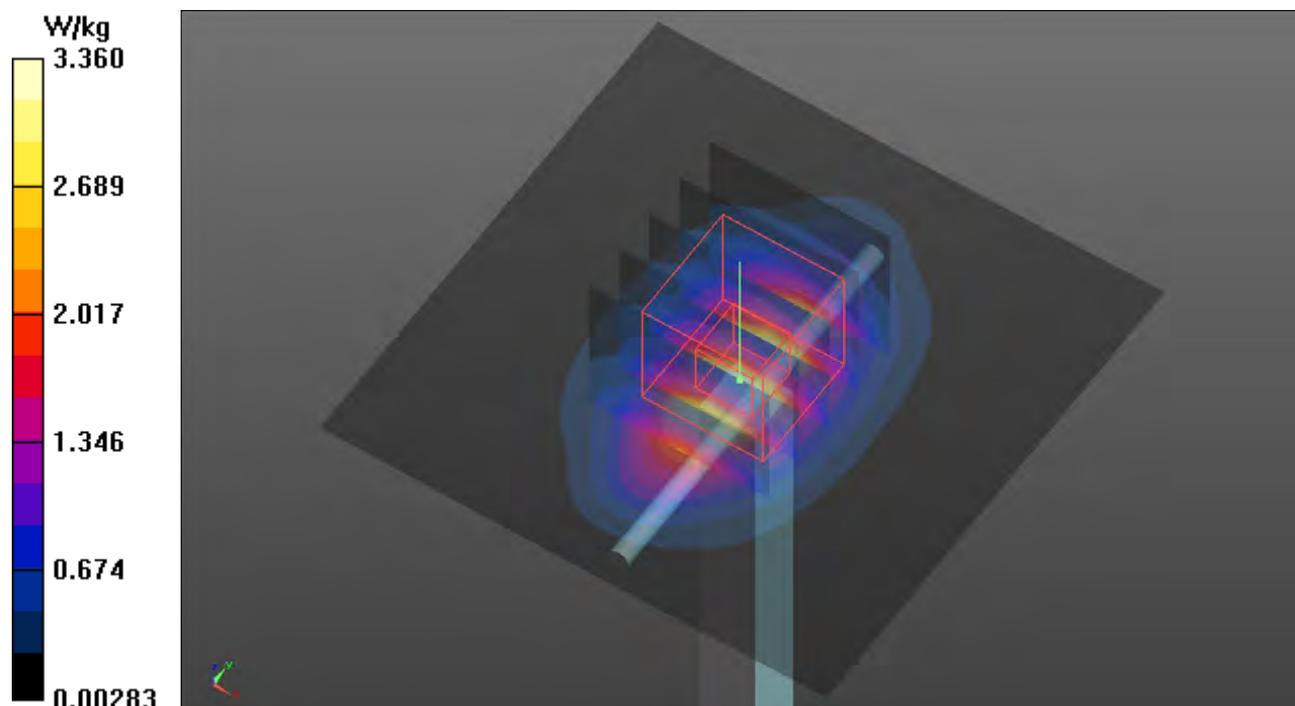
Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 49.61 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 4.13 W/kg

SAR(1 g) = 2.11 W/kg; SAR(10 g) = 1.08 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 3.43 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/26

S05 System Check_H1750_220326

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

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

Medium: H16T20N1_0326 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 : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(8.54, 8.54, 8.54) @ 1750 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 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) = 2.75 W/kg

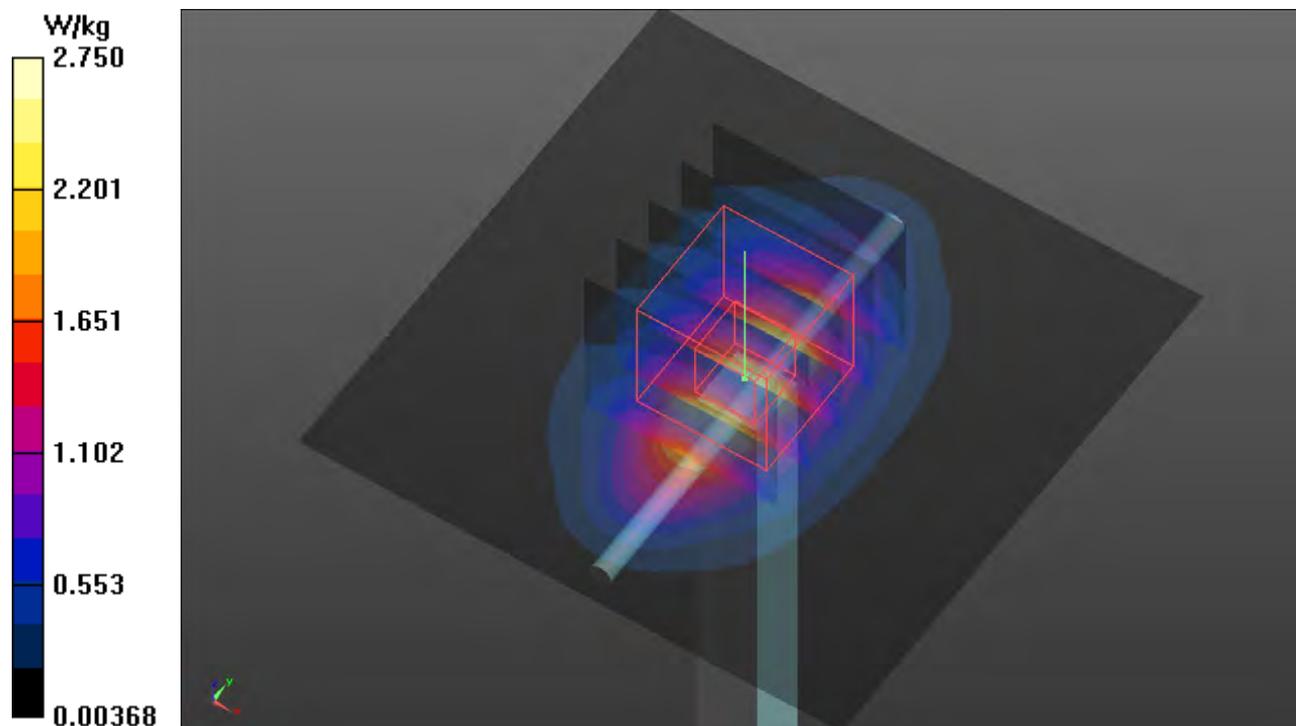
Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 46.25 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 3.23 W/kg

SAR(1 g) = 1.75 W/kg; SAR(10 g) = 0.940 W/kg (SAR corrected for target medium)

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



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/30

S06 System Check_H835_220330

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

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

Medium: H07T10N1_0330 Medium parameters used: $f = 835$ MHz; $\sigma = 0.872$ S/m; $\epsilon_r = 43.053$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3820; ConvF(9.09, 9.09, 9.09) @ 835 MHz; Calibrated: 2021/07/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2022/02/23
- Phantom: ELI Phantom_1206; Type: QDOVA001BB;
- 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) = 0.637 W/kg

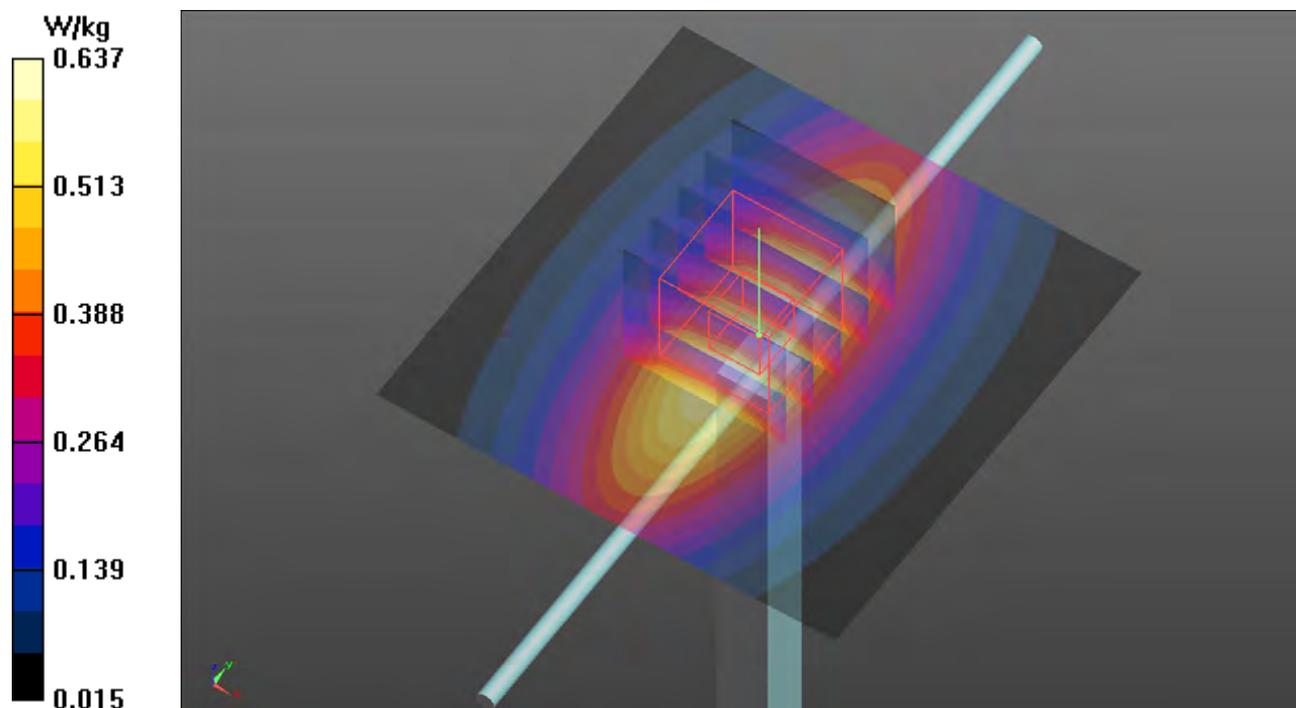
Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 28.07 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.724 W/kg

SAR(1 g) = 0.494 W/kg; SAR(10 g) = 0.315 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.634 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/29

S07 System Check_H2600_220329

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

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

Medium: H19T27N1_0329 Medium parameters used: $f = 2600$ MHz; $\sigma = 1.901$ S/m; $\epsilon_r = 38.467$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3820; ConvF(6.7, 6.7, 6.7) @ 2600 MHz; Calibrated: 2021/07/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2022/02/23
- Phantom: ELI Phantom_1206; Type: QDOVA001BB;
- 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) = 4.79 W/kg

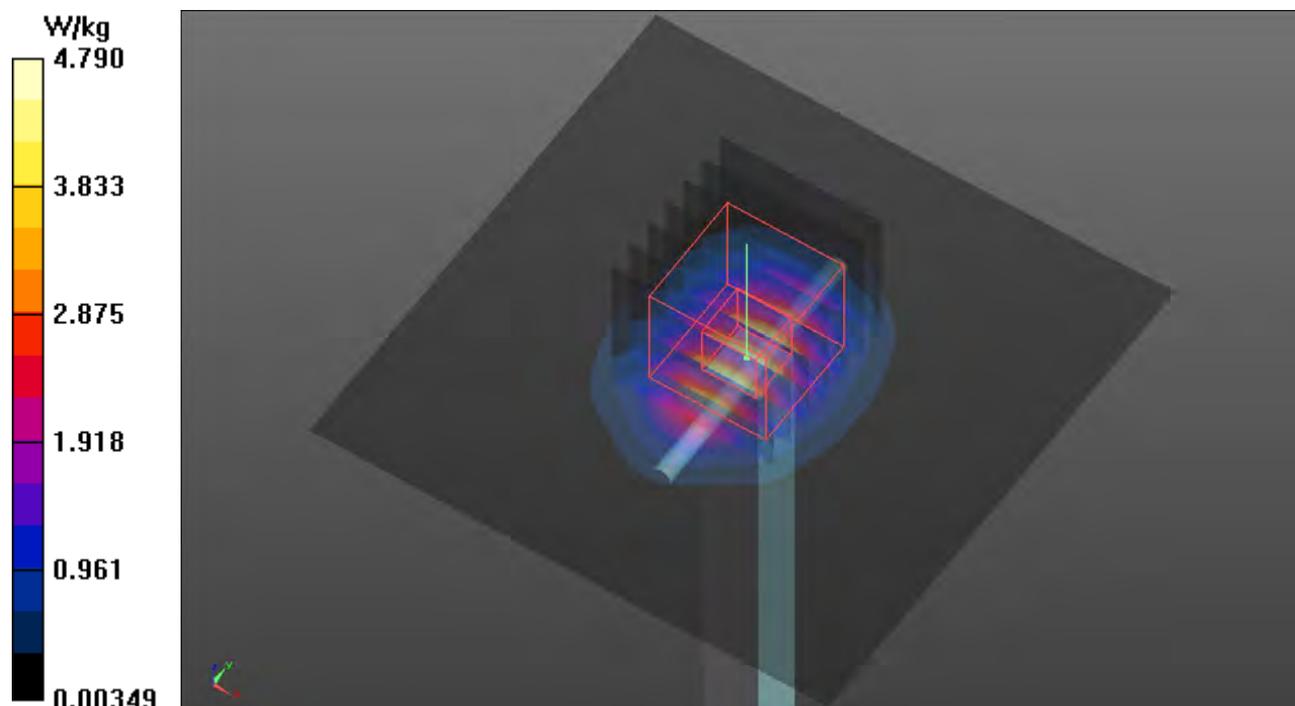
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 52.63 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 5.92 W/kg

SAR(1 g) = 2.83 W/kg; SAR(10 g) = 1.24 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 4.78 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/28

S08 System Check_H750_220328

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

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

Medium: H06T09N1_0328 Medium parameters used: $f = 750$ MHz; $\sigma = 0.921$ S/m; $\epsilon_r = 42.312$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(10.38, 10.38, 10.38) @ 750 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 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) = 0.645 W/kg

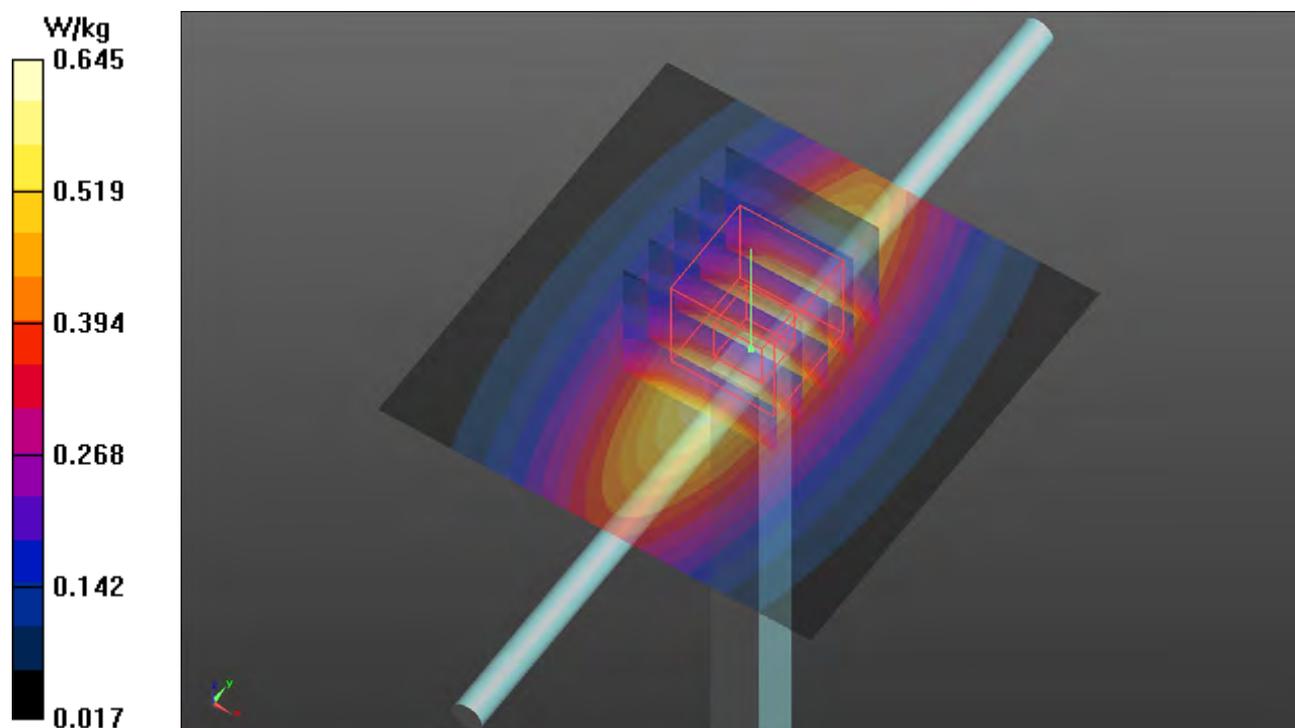
Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.48 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.716 W/kg

SAR(1 g) = 0.453 W/kg; SAR(10 g) = 0.299 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.627 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/28

S09 System Check_H750_220328

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

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

Medium: H06T09N1_0328 Medium parameters used: $f = 750$ MHz; $\sigma = 0.921$ S/m; $\epsilon_r = 42.312$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(10.38, 10.38, 10.38) @ 750 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 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) = 0.645 W/kg

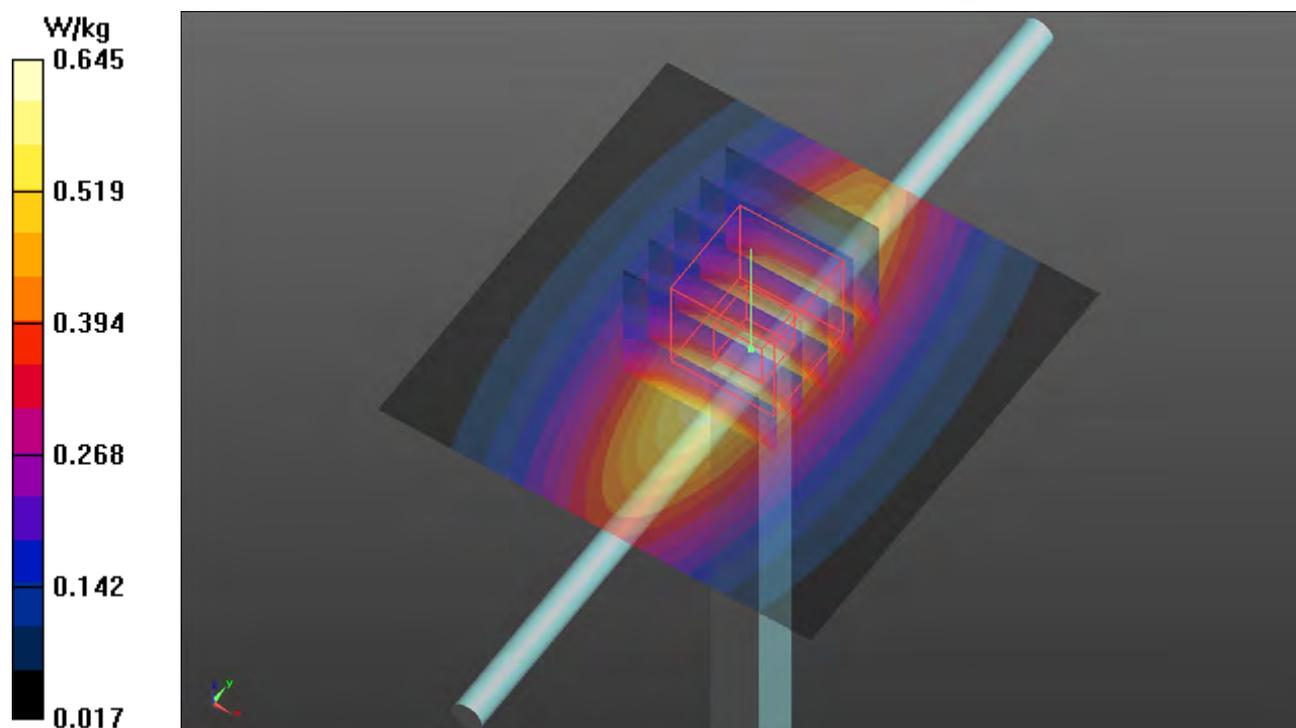
Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.48 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.716 W/kg

SAR(1 g) = 0.453 W/kg; SAR(10 g) = 0.299 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.627 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/28

S10 System Check_H750_220328

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

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

Medium: H06T09N1_0328 Medium parameters used: $f = 750$ MHz; $\sigma = 0.921$ S/m; $\epsilon_r = 42.312$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(10.38, 10.38, 10.38) @ 750 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 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) = 0.645 W/kg

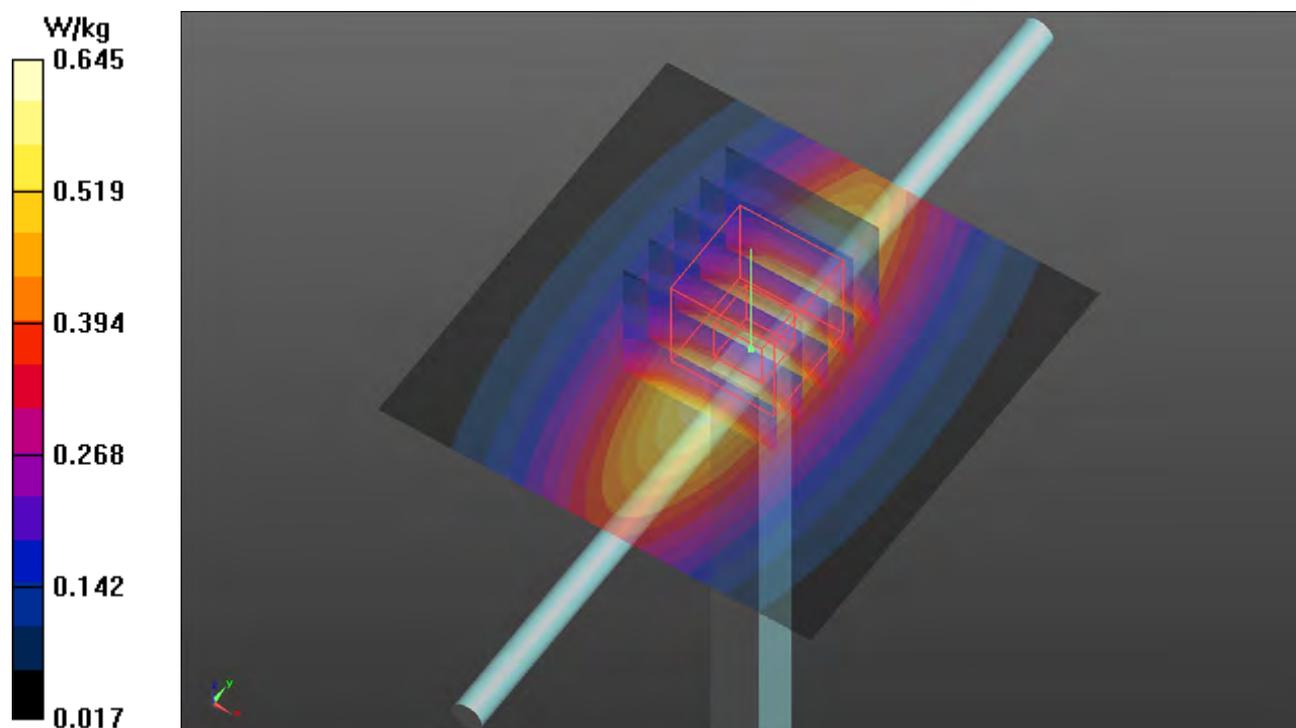
Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 27.48 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.716 W/kg

SAR(1 g) = 0.453 W/kg; SAR(10 g) = 0.299 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.627 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/31

S11 System Check_H750_220331

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

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

Medium: H06T09N1_0331 Medium parameters used: $f = 750$ MHz; $\sigma = 0.894$ S/m; $\epsilon_r = 40.645$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3820; ConvF(9.62, 9.62, 9.62) @ 750 MHz; Calibrated: 2021/07/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2022/02/23
- Phantom: ELI Phantom_1206; Type: QDOVA001BB;
- 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) = 0.777 W/kg

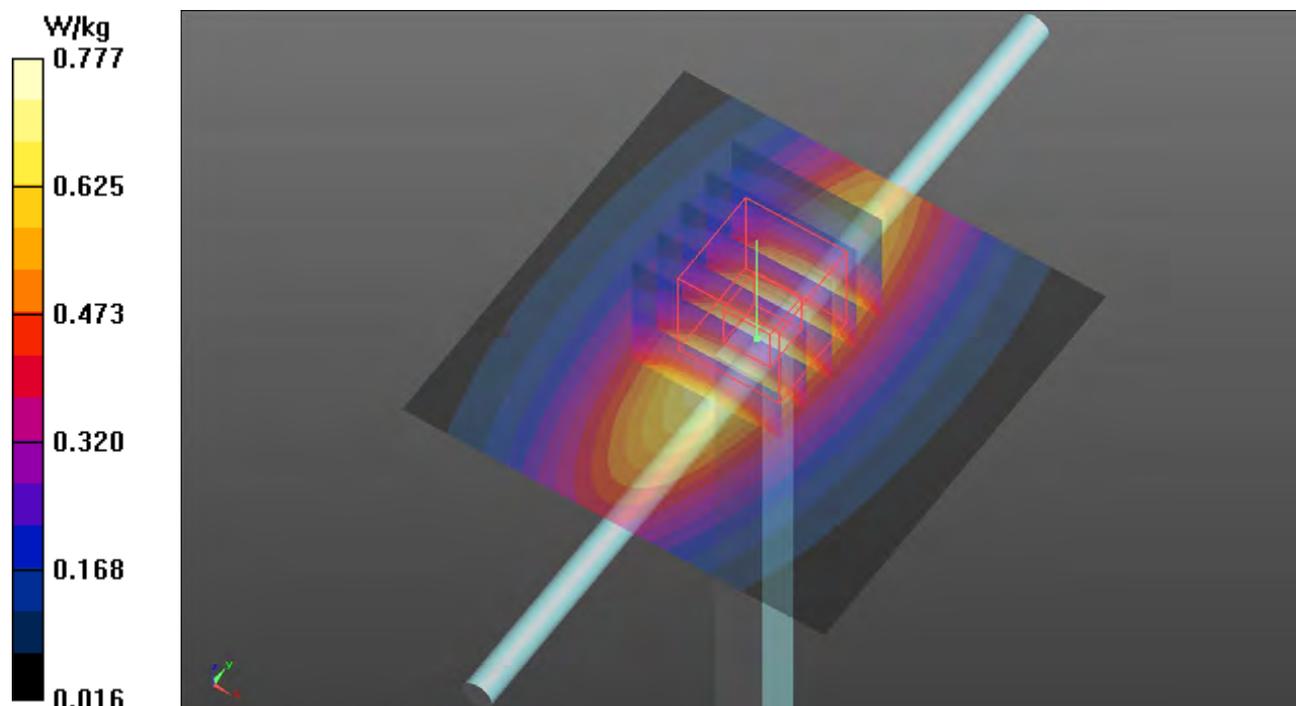
Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 30.61 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.892 W/kg

SAR(1 g) = 0.464 W/kg; SAR(10 g) = 0.274 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.780 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/04/01

S12 System Check_H1900_220401

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

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

Medium: H16T20N1_0401 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.463$ S/m; $\epsilon_r = 38.847$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3820; ConvF(7.35, 7.35, 7.35) @ 1900 MHz; Calibrated: 2021/07/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2022/02/23
- Phantom: ELI Phantom_1206; Type: QDOVA001BB;
- 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) = 4.51 W/kg

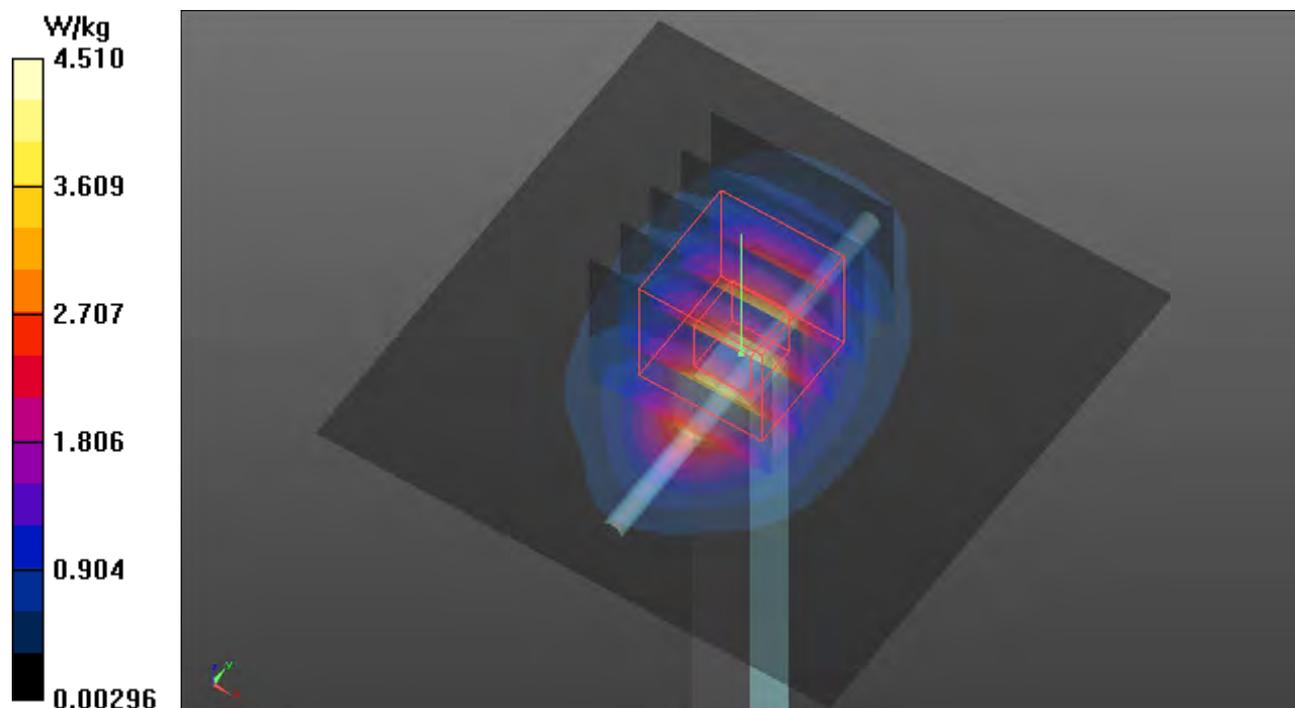
Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 57.19 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 5.34 W/kg

SAR(1 g) = 2.09 W/kg; SAR(10 g) = 0.988 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 4.51 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/26

S13 System Check_H835_220326

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

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

Medium: H07T10N1_0326 Medium parameters used: $f = 835$ MHz; $\sigma = 0.931$ S/m; $\epsilon_r = 40.566$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(9.92, 9.92, 9.92) @ 835 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 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) = 0.648 W/kg

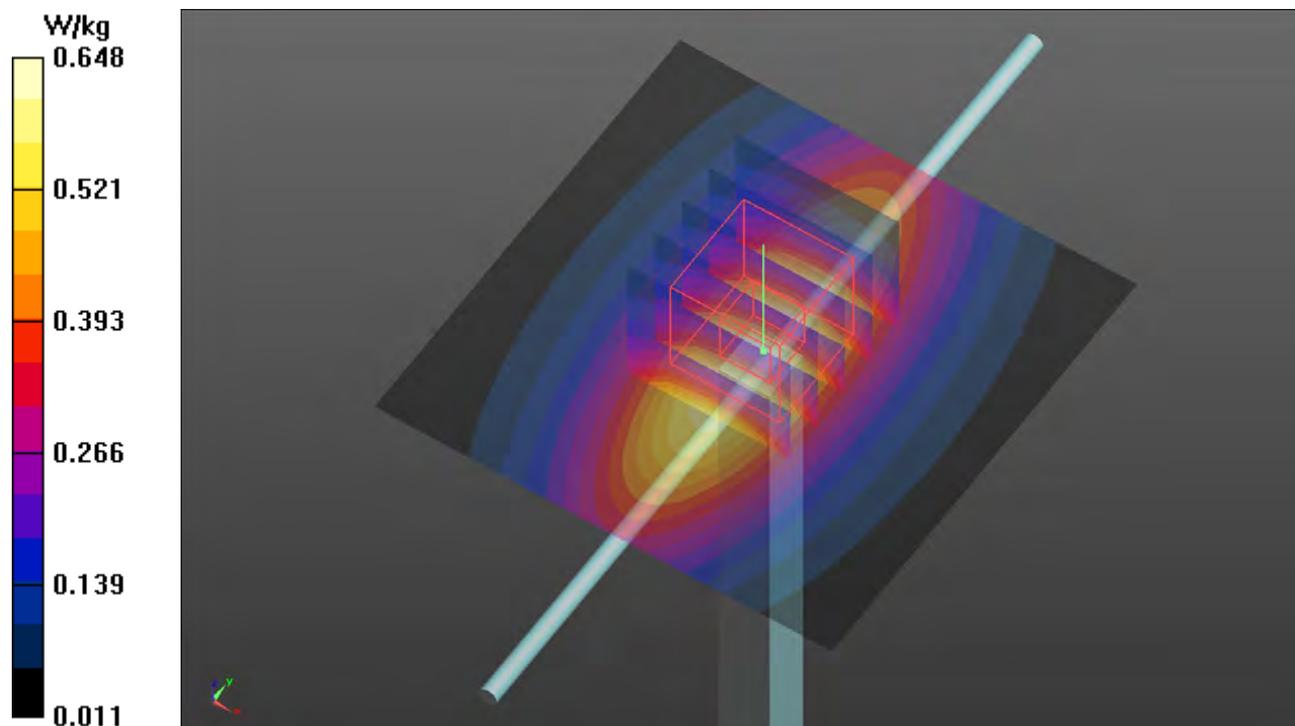
Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.79 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.737 W/kg

SAR(1 g) = 0.478 W/kg; SAR(10 g) = 0.316 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.655 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/29

S14 System Check_H2300_220329

DUT: Dipole 2300 MHz; Type: D2300V2; SN:1004

Communication System: UID 0, CW; Frequency: 2300 MHz; Duty Cycle: 1:1

Medium: H19T27N1_0329 Medium parameters used: $f = 2300$ MHz; $\sigma = 1.716$ S/m; $\epsilon_r = 38.469$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(7.68, 7.68, 7.68) @ 2300 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

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

Maximum value of SAR (interpolated) = 4.24 W/kg

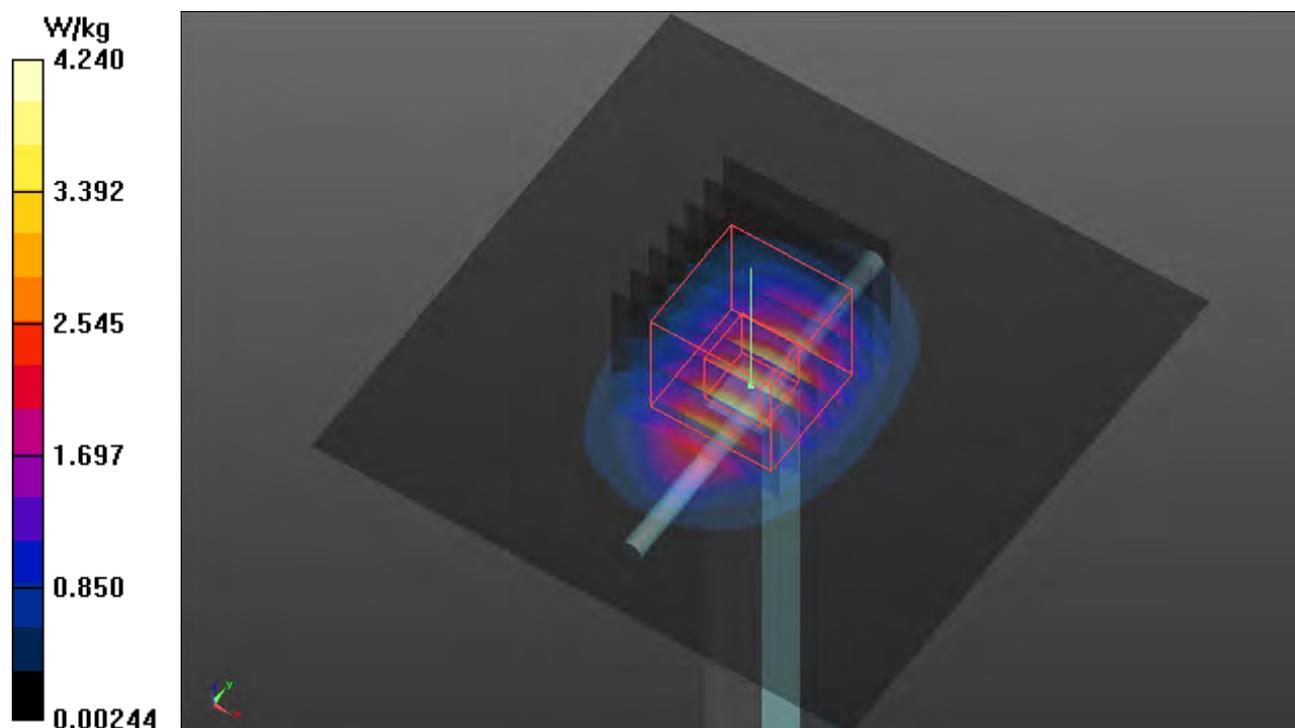
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 50.45 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 5.17 W/kg

SAR(1 g) = 2.46 W/kg; SAR(10 g) = 1.18 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 4.16 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/04/01

S15 System Check_H2600_220401

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

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

Medium: H19T27N1_0401 Medium parameters used: $f = 2600$ MHz; $\sigma = 1.9$ S/m; $\epsilon_r = 38.472$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3820; ConvF(6.7, 6.7, 6.7) @ 2600 MHz; Calibrated: 2021/07/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2022/02/23
- Phantom: ELI Phantom_1206; Type: QDOVA001BB;
- 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) = 6.61 W/kg

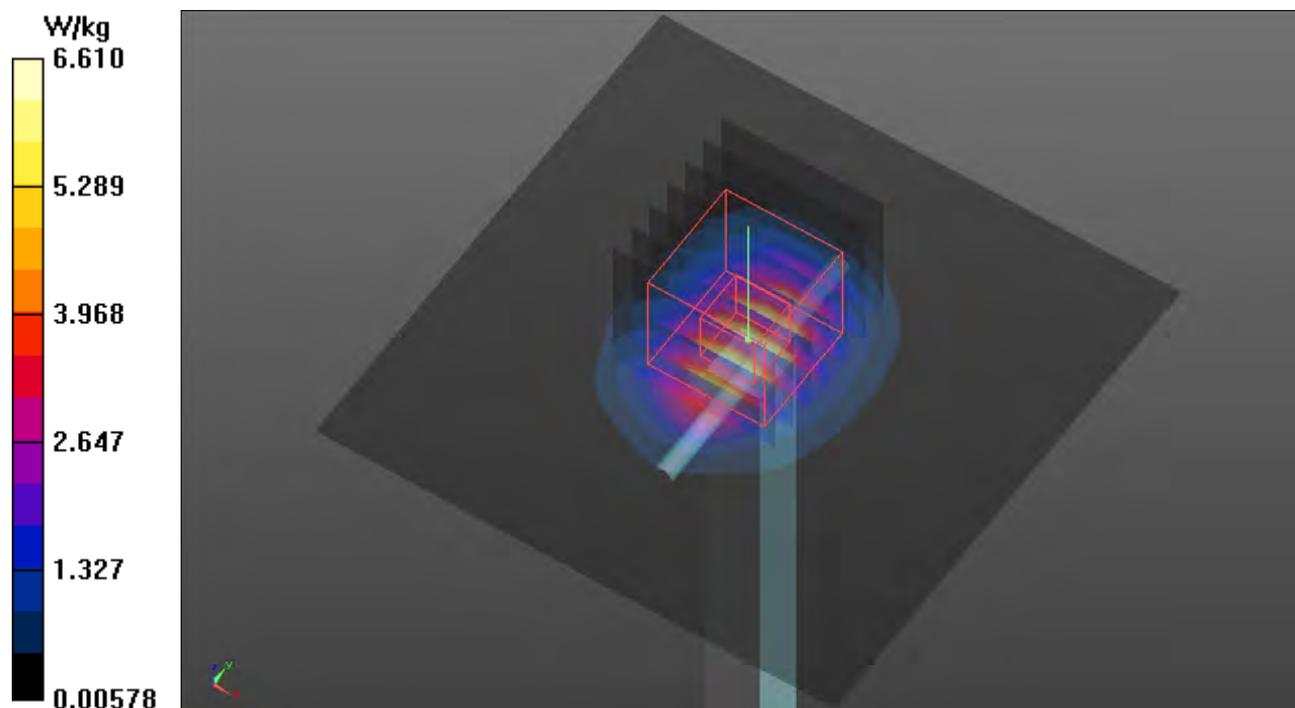
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 60.19 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 8.23 W/kg

SAR(1 g) = 2.68 W/kg; SAR(10 g) = 1.31 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 6.67 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/29

S16 System Check_H2300_220329

DUT: Dipole 2300 MHz; Type: D2300V2; SN:1004

Communication System: UID 0, CW; Frequency: 2300 MHz; Duty Cycle: 1:1

Medium: H19T27N1_0329 Medium parameters used: $f = 2300$ MHz; $\sigma = 1.716$ S/m; $\epsilon_r = 38.469$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(7.68, 7.68, 7.68) @ 2300 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

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

Maximum value of SAR (interpolated) = 4.24 W/kg

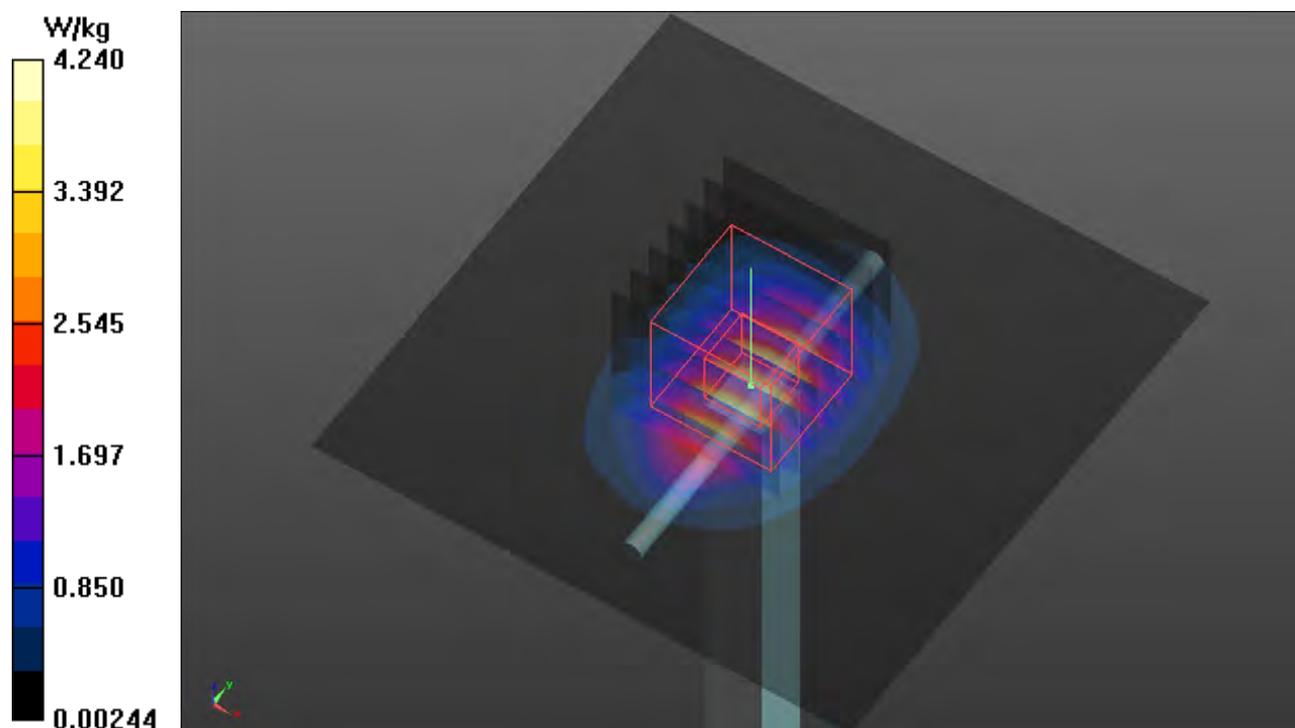
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 50.45 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 5.17 W/kg

SAR(1 g) = 2.46 W/kg; SAR(10 g) = 1.18 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 4.16 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/22

S17 System Check_H2600_220322

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

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

Medium: H19T27N1_0322 Medium parameters used: $f = 2600$ MHz; $\sigma = 2.03$ S/m; $\epsilon_r = 37.454$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(7.3, 7.3, 7.3) @ 2600 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

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

Maximum value of SAR (interpolated) = 4.89 W/kg

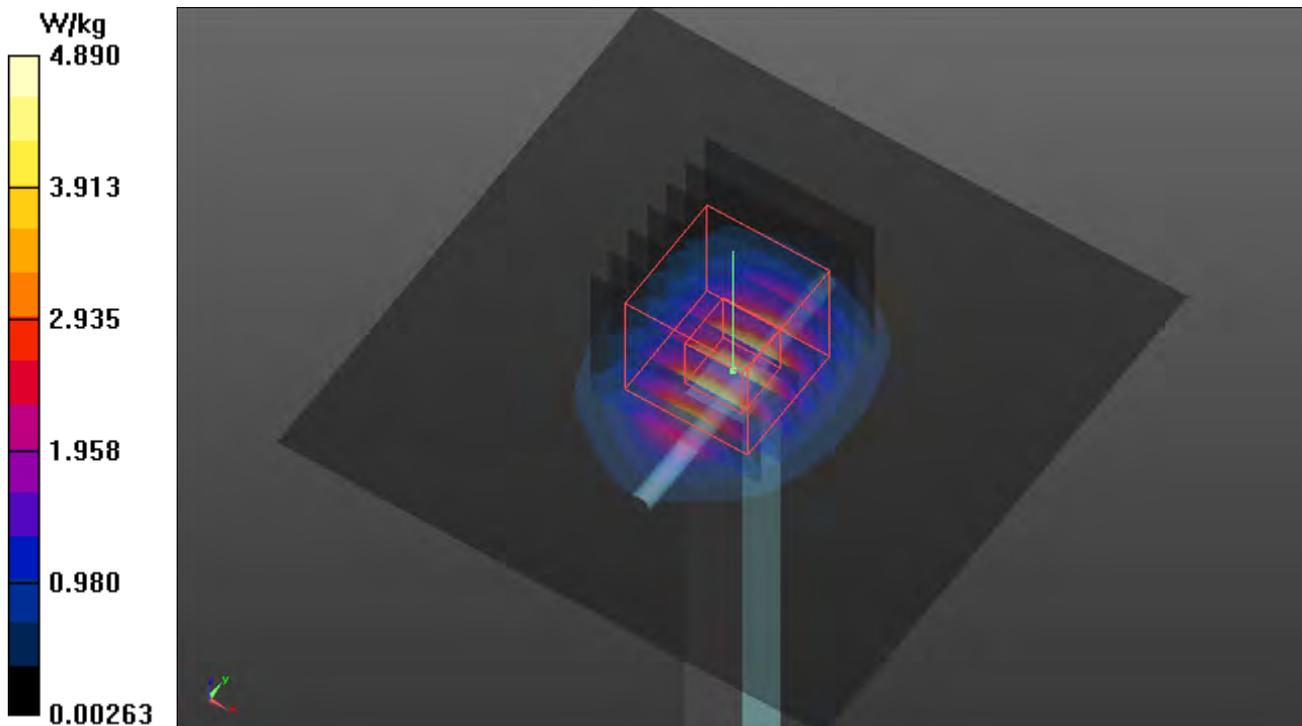
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 50.77 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 6.10 W/kg

SAR(1 g) = 2.73 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: 2022/03/27

S20a System Check_H3500_220327

DUT: Dipole 3500 MHz; Type: D3500V2; SN: 1007

Communication System: UID 0, CW; Frequency: 3500 MHz; Duty Cycle: 1:1

Medium: H33T42N1_0327 Medium parameters used: $f = 3500$ MHz; $\sigma = 2.922$ S/m; $\epsilon_r = 37.452$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3820; ConvF(6.66, 6.66, 6.66) @ 3500 MHz; Calibrated: 2021/07/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2022/02/23
- Phantom: ELI Phantom_1206; Type: QDOVA001BB;
- 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) = 6.70 W/kg

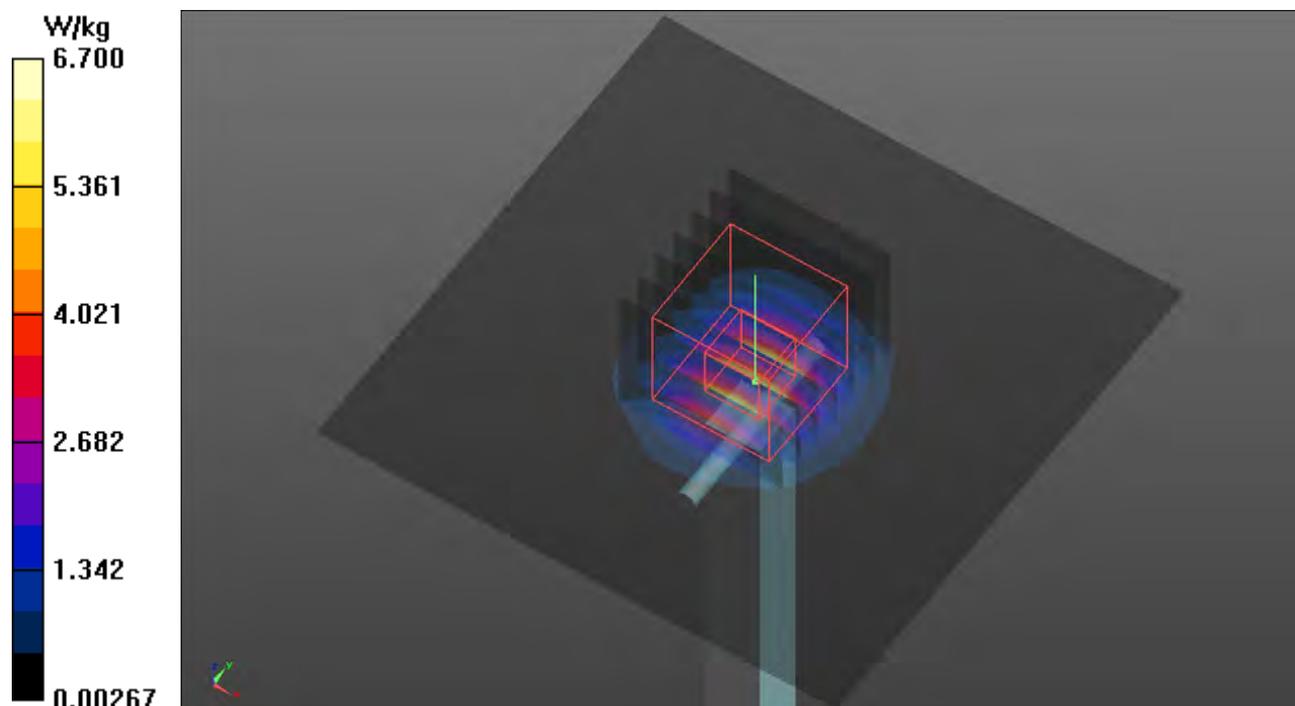
Pin=50mW/Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2.5mm

Reference Value = 49.09 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 8.94 W/kg

SAR(1 g) = 3.45 W/kg; SAR(10 g) = 1.31 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 6.66 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/27

S20b System Check_H3700_220327

DUT: Dipole 3700 MHz; Type: D3700V2; SN: 1017

Communication System: UID 0, CW; Frequency: 3700 MHz; Duty Cycle: 1:1

Medium: H33T42N1_0327 Medium parameters used: $f = 3700$ MHz; $\sigma = 3.133$ S/m; $\epsilon_r = 36.831$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3820; ConvF(6.51, 6.51, 6.51) @ 3700 MHz; Calibrated: 2021/07/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2022/02/23
- Phantom: ELI Phantom_1206; Type: QDOVA001BB;
- 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) = 6.98 W/kg

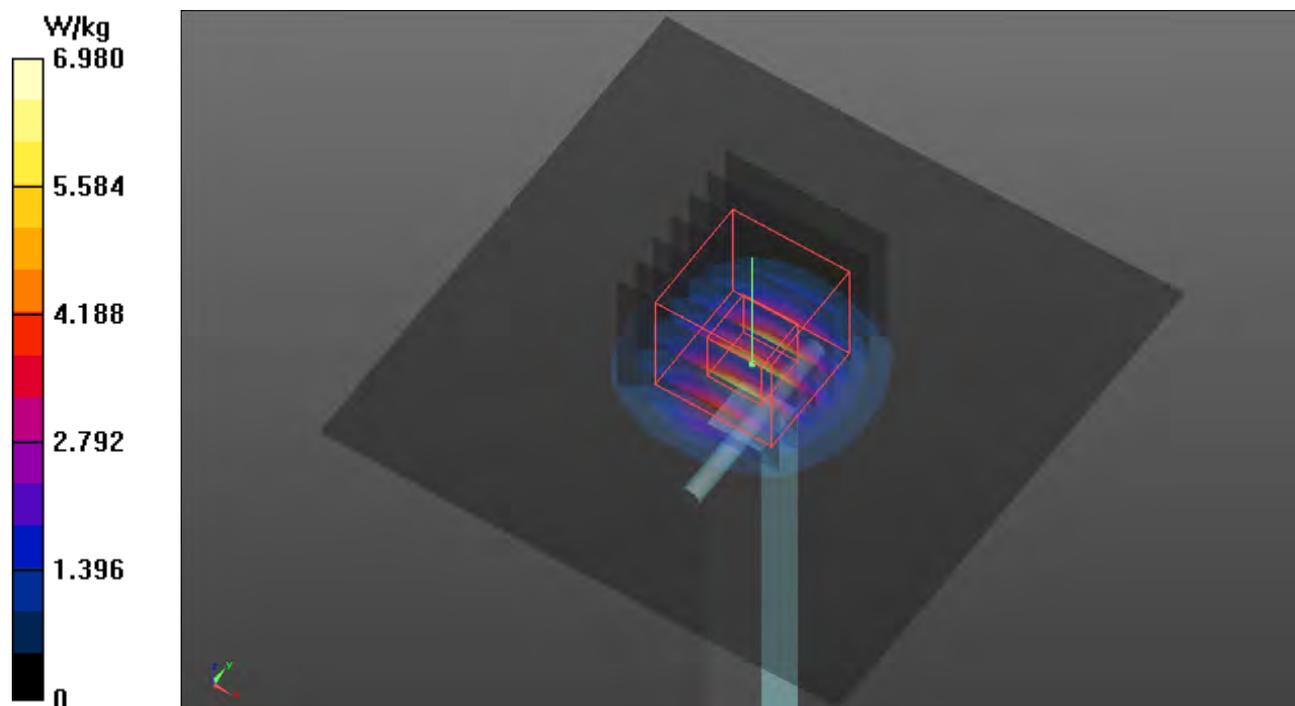
Pin=50mW/Zoom Scan (7x7x6)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=2.5$ mm

Reference Value = 50.13 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 9.43 W/kg

SAR(1 g) = 3.43 W/kg; SAR(10 g) = 1.27 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 6.93 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/26

S21 System Check_H1750_220326

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

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

Medium: H16T20N1_0326 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 : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(8.54, 8.54, 8.54) @ 1750 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 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) = 2.75 W/kg

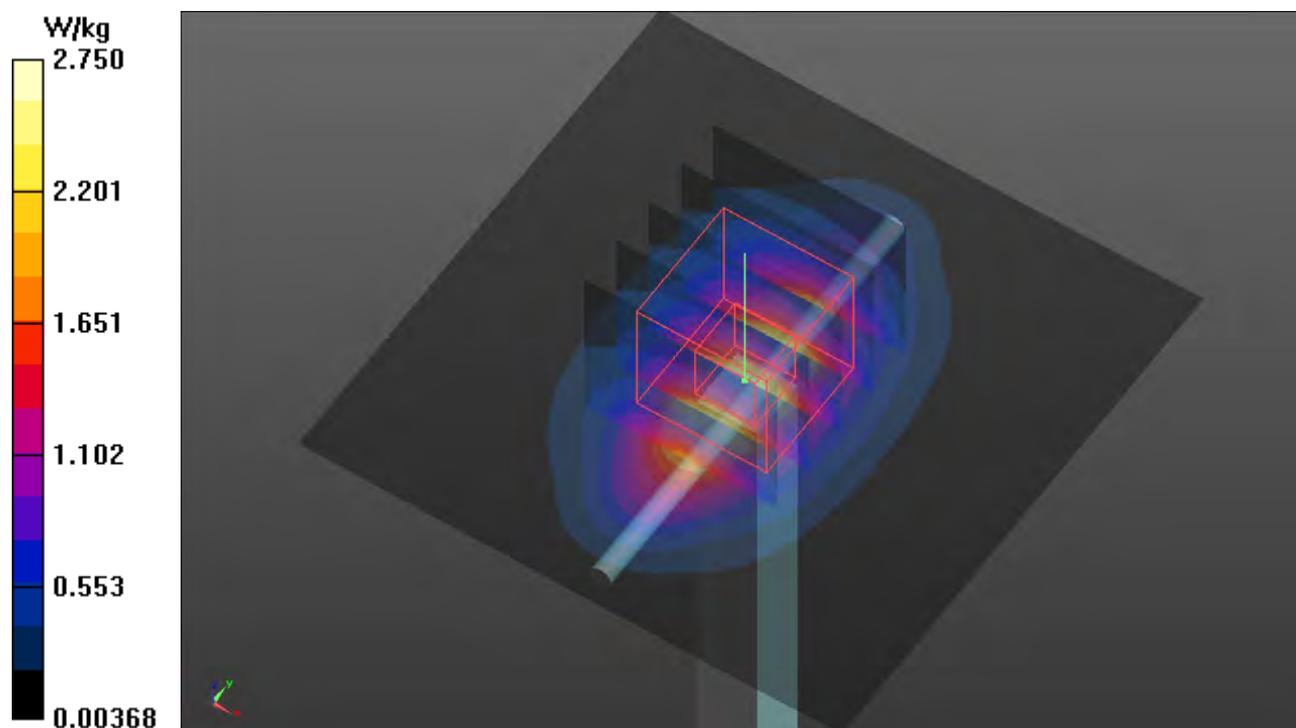
Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 46.25 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 3.23 W/kg

SAR(1 g) = 1.75 W/kg; SAR(10 g) = 0.940 W/kg (SAR corrected for target medium)

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



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/04/01

S22 System Check_H750_220401

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

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

Medium: H06T09N1_0401 Medium parameters used: $f = 750$ MHz; $\sigma = 0.895$ S/m; $\epsilon_r = 43.887$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(10.38, 10.38, 10.38) @ 750 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 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) = 0.627 W/kg

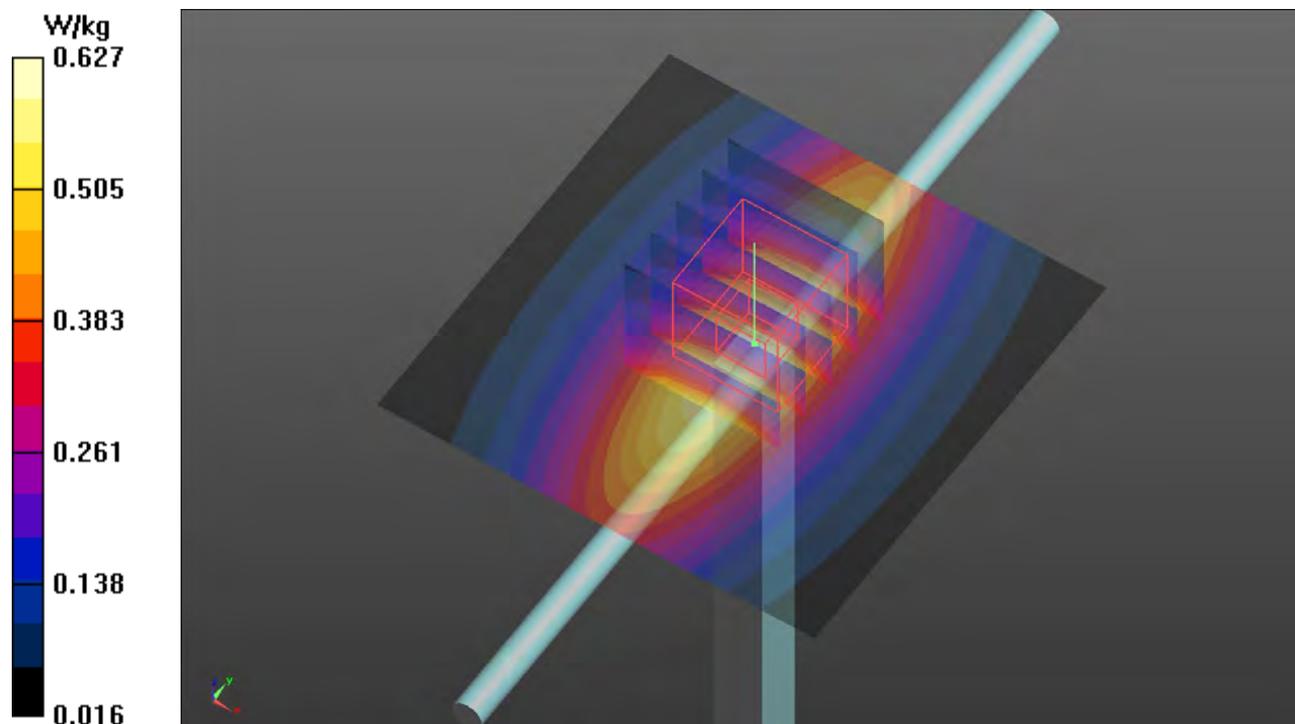
Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.48 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.696 W/kg

SAR(1 g) = 0.453 W/kg; SAR(10 g) = 0.297 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.609 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/26

S23 System Check_H1900_220326

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

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

Medium: H16T20N1_0326 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.459$ S/m; $\epsilon_r = 38.57$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(8.17, 8.17, 8.17) @ 1900 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 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) = 3.25 W/kg

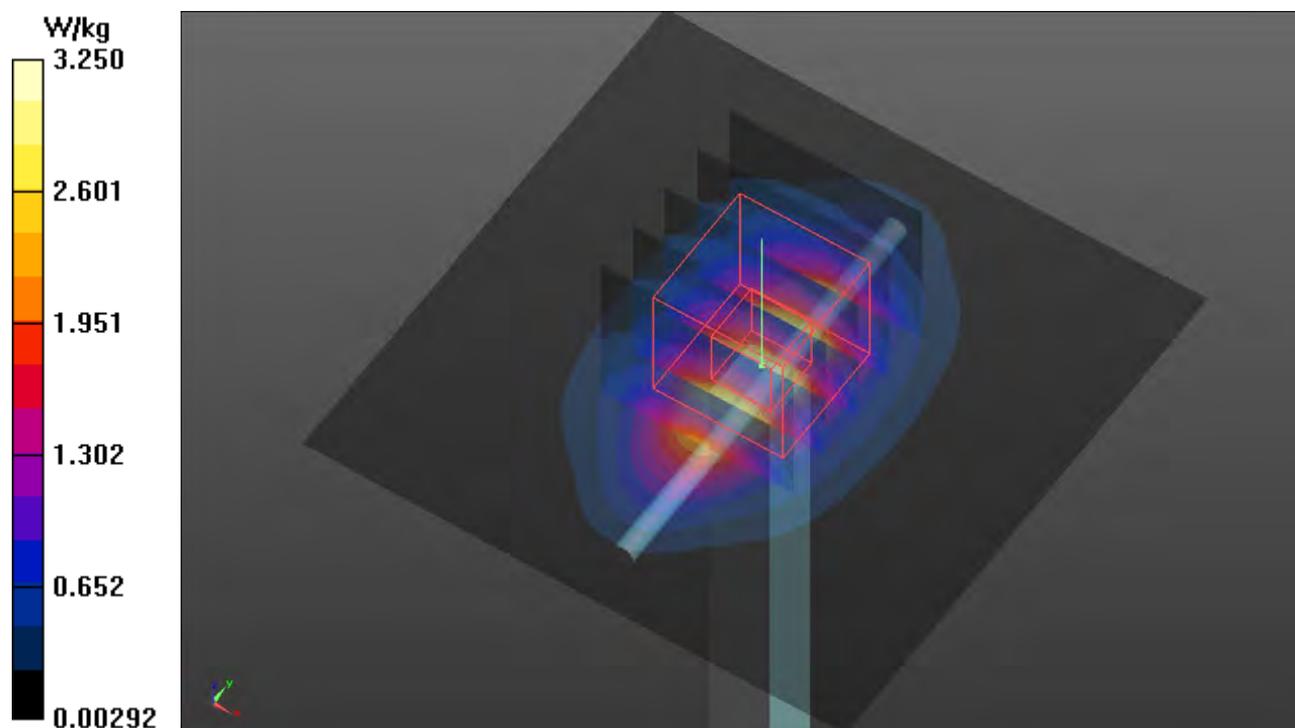
Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 48.80 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 3.95 W/kg

SAR(1 g) = 2.03 W/kg; SAR(10 g) = 1.08 W/kg (SAR corrected for target medium)

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



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/26

S24 System Check_H835_220326

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

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

Medium: H07T10N1_0326 Medium parameters used: $f = 835$ MHz; $\sigma = 0.931$ S/m; $\epsilon_r = 40.566$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(9.92, 9.92, 9.92) @ 835 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 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) = 0.648 W/kg

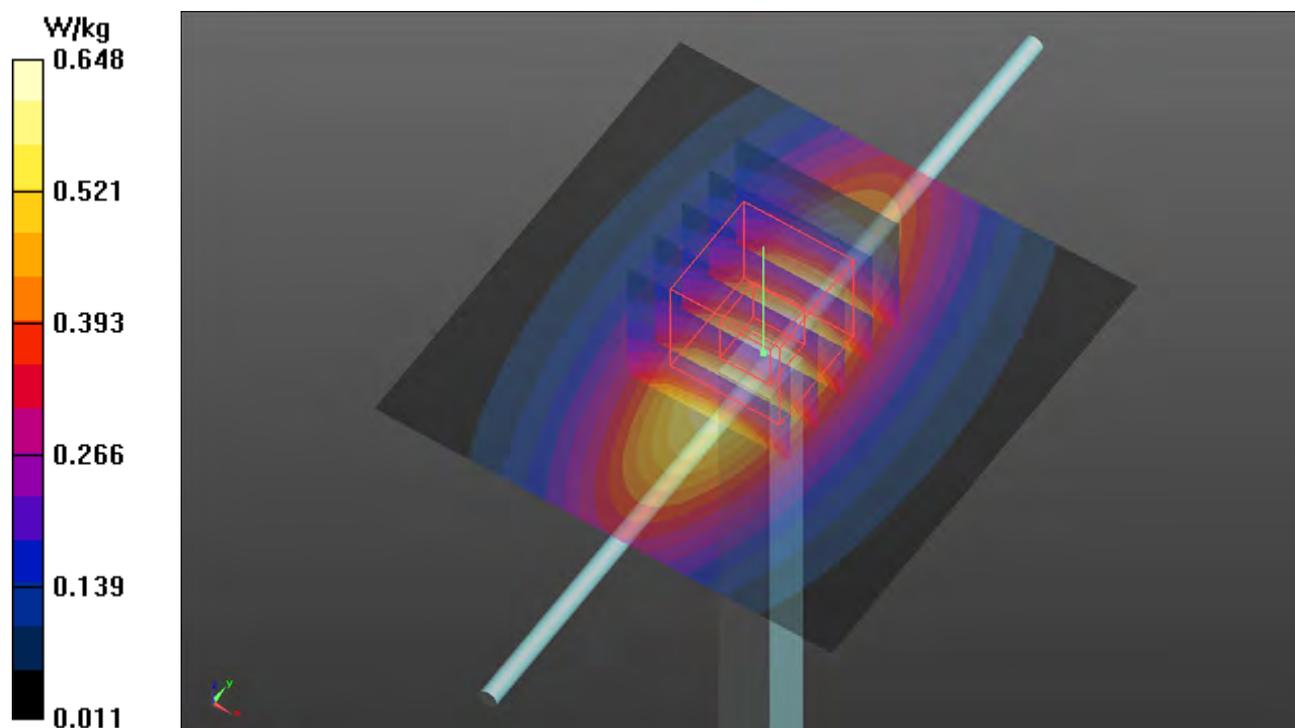
Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.79 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.737 W/kg

SAR(1 g) = 0.478 W/kg; SAR(10 g) = 0.316 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.655 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/28

S25 System Check_H2600_220328

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

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

Medium: H19T27N1_0328 Medium parameters used: $f = 2600$ MHz; $\sigma = 2.029$ S/m; $\epsilon_r = 37.61$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(7.3, 7.3, 7.3) @ 2600 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

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

Maximum value of SAR (interpolated) = 5.46 W/kg

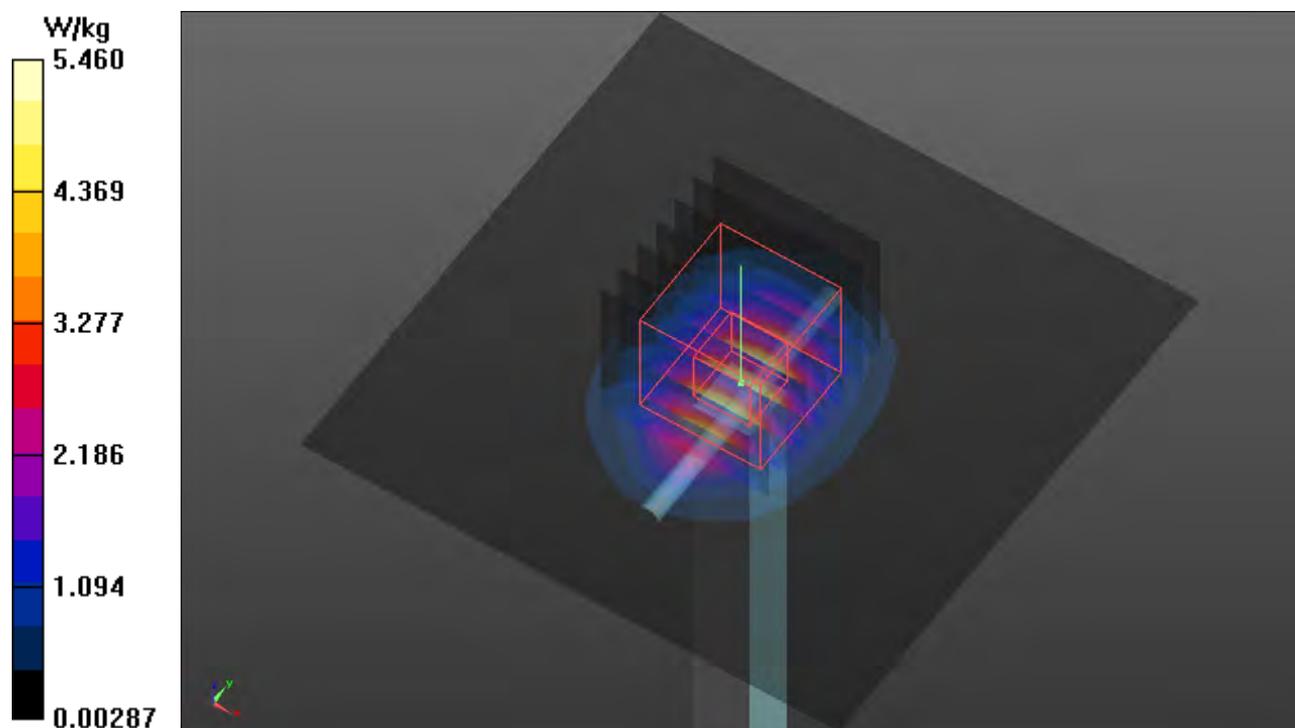
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 52.33 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 6.91 W/kg

SAR(1 g) = 3.04 W/kg; SAR(10 g) = 1.38 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 5.41 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/30

S26 System Check_H1900_220330

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

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

Medium: H16T20N1_0330 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.462$ S/m; $\epsilon_r = 39.355$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(8.17, 8.17, 8.17) @ 1900 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 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) = 3.26 W/kg

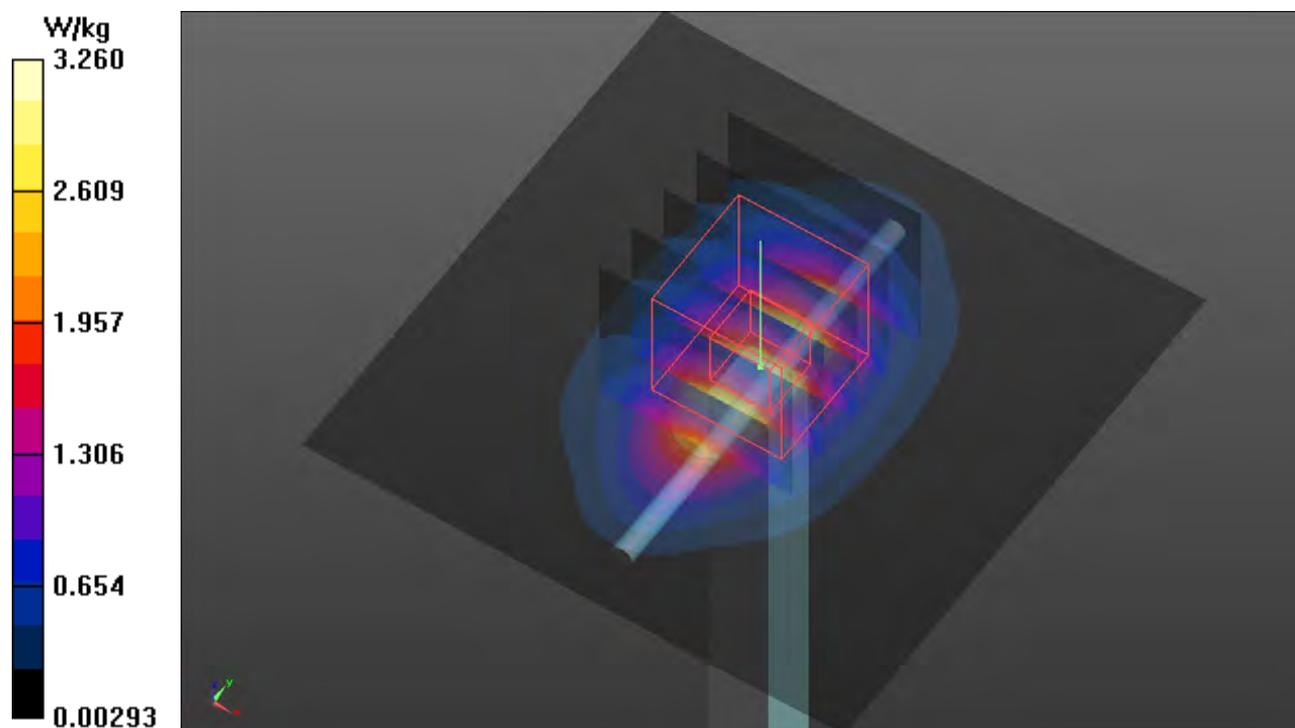
Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 48.80 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 3.96 W/kg

SAR(1 g) = 2.04 W/kg; SAR(10 g) = 1.08 W/kg (SAR corrected for target medium)

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



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/29

S27 System Check_H2300_220329

DUT: Dipole 2300 MHz; Type: D2300V2; SN:1004

Communication System: UID 0, CW; Frequency: 2300 MHz; Duty Cycle: 1:1

Medium: H19T27N1_0329 Medium parameters used: $f = 2300$ MHz; $\sigma = 1.716$ S/m; $\epsilon_r = 38.469$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(7.68, 7.68, 7.68) @ 2300 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

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

Maximum value of SAR (interpolated) = 4.24 W/kg

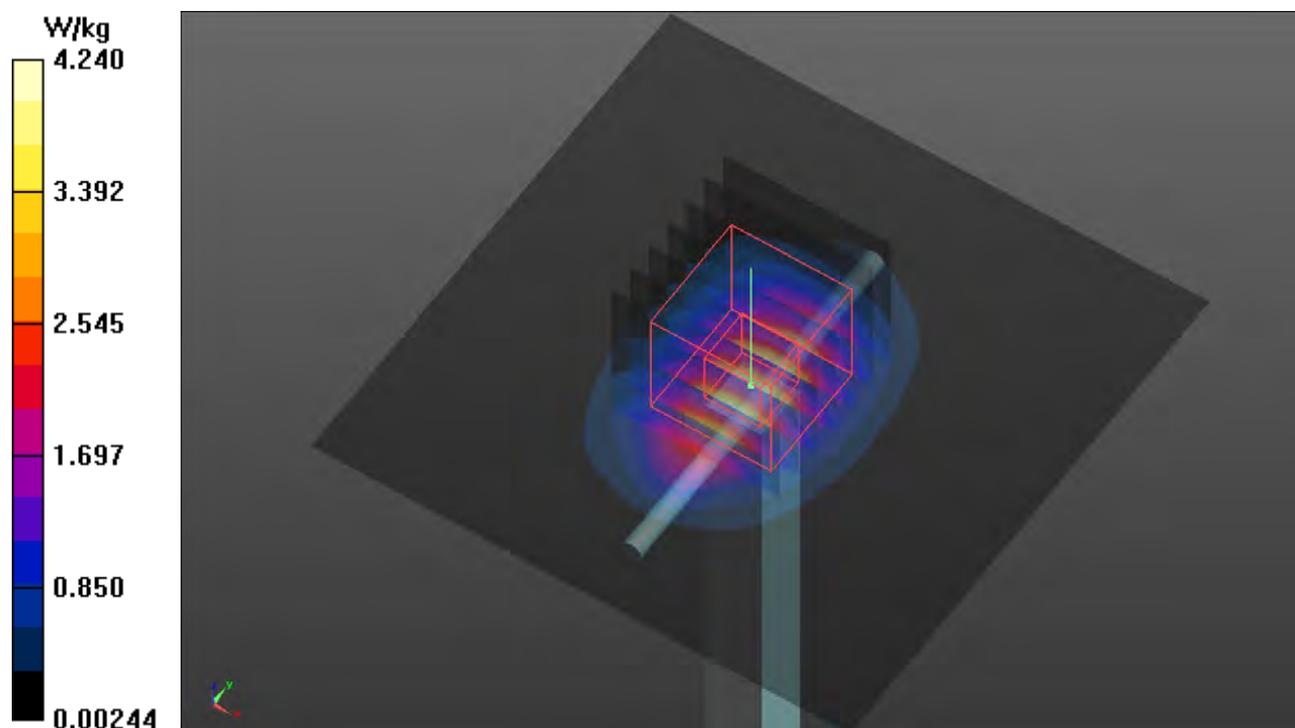
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 50.45 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 5.17 W/kg

SAR(1 g) = 2.46 W/kg; SAR(10 g) = 1.18 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 4.16 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/30

S28 System Check_H2600_220330

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

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

Medium: H19T27N0_0330 Medium parameters used: $f = 2600$ MHz; $\sigma = 2.049$ S/m; $\epsilon_r = 37.987$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(7.3, 7.3, 7.3) @ 2600 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

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

Maximum value of SAR (interpolated) = 4.93 W/kg

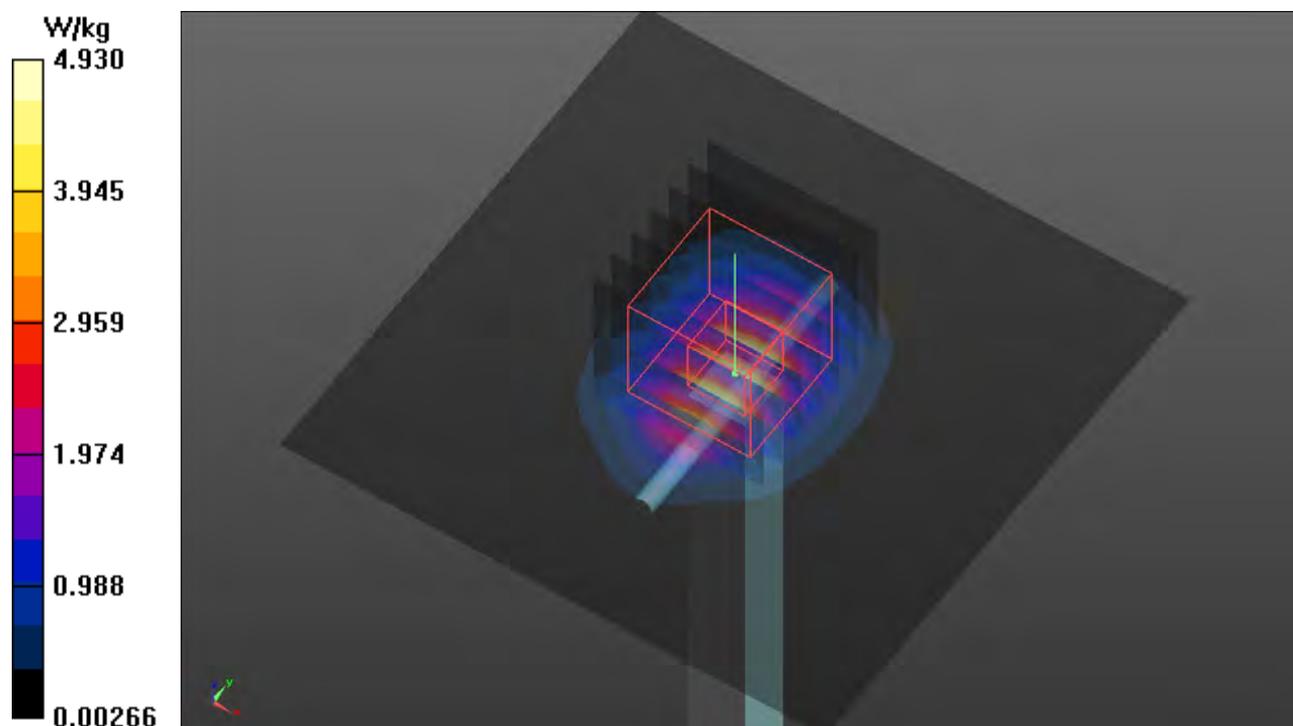
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 50.77 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 6.15 W/kg

SAR(1 g) = 2.76 W/kg; SAR(10 g) = 1.27 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 4.87 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/30

S29 System Check_H2300_220330

DUT: Dipole 2300 MHz; Type: D2300V2; SN:1004

Communication System: UID 0, CW; Frequency: 2300 MHz; Duty Cycle: 1:1

Medium: H19T27N0_0330 Medium parameters used: $f = 2300$ MHz; $\sigma = 1.714$ S/m; $\epsilon_r = 39.064$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(7.68, 7.68, 7.68) @ 2300 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

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

Maximum value of SAR (interpolated) = 4.23 W/kg

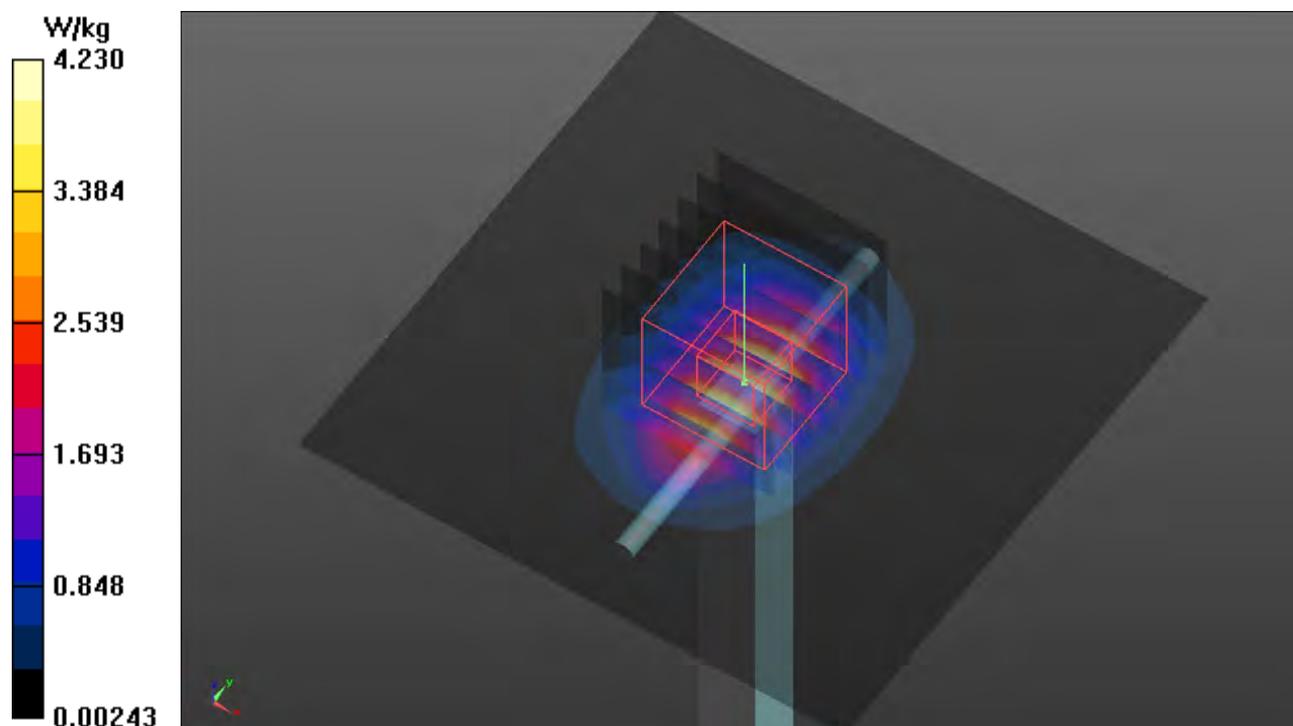
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 50.45 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 5.16 W/kg

SAR(1 g) = 2.46 W/kg; SAR(10 g) = 1.18 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 4.16 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/04/02

S30 System Check_H2600_220402

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

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

Medium: H19T27N0_0402 Medium parameters used: $f = 2600$ MHz; $\sigma = 2.048$ S/m; $\epsilon_r = 37.972$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(7.3, 7.3, 7.3) @ 2600 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

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

Maximum value of SAR (interpolated) = 4.93 W/kg

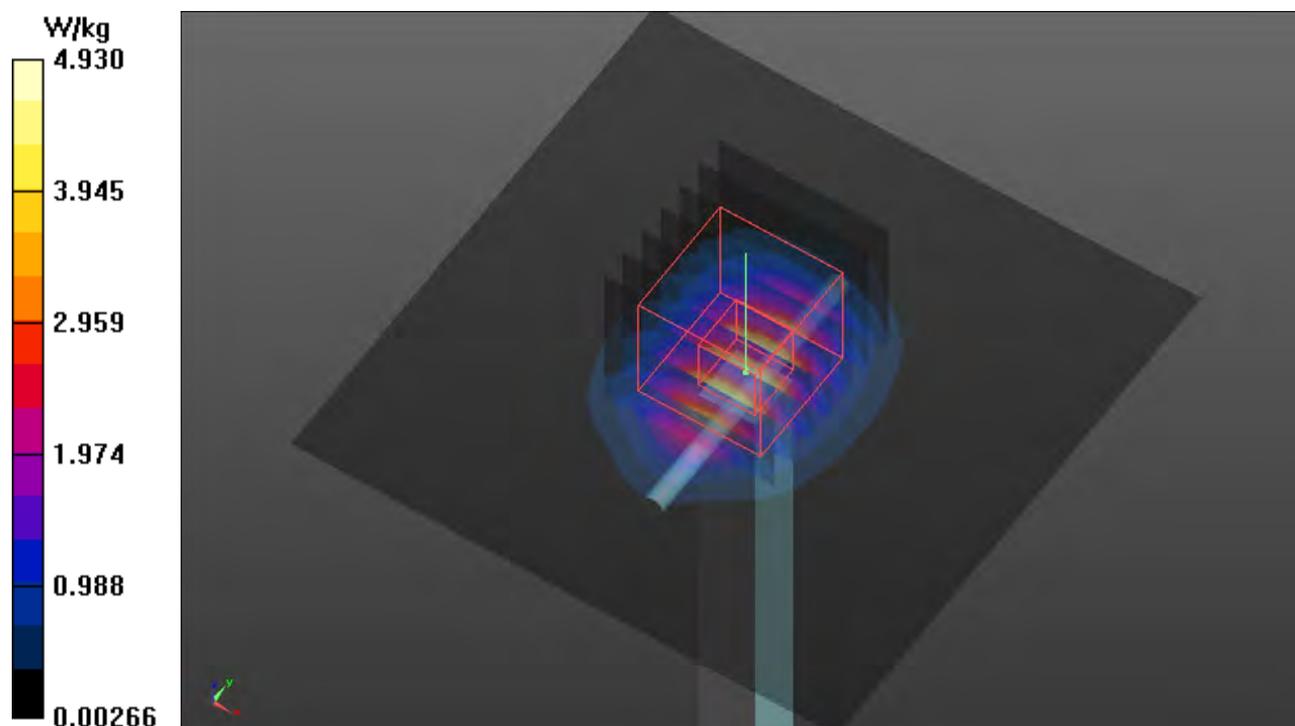
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 50.77 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 6.15 W/kg

SAR(1 g) = 2.75 W/kg; SAR(10 g) = 1.27 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 4.87 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/22

S32 System Check_H1750_220322

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

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

Medium: H16T20N2_0322 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.374$ S/m; $\epsilon_r = 41.484$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(8.54, 8.54, 8.54) @ 1750 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 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) = 2.76 W/kg

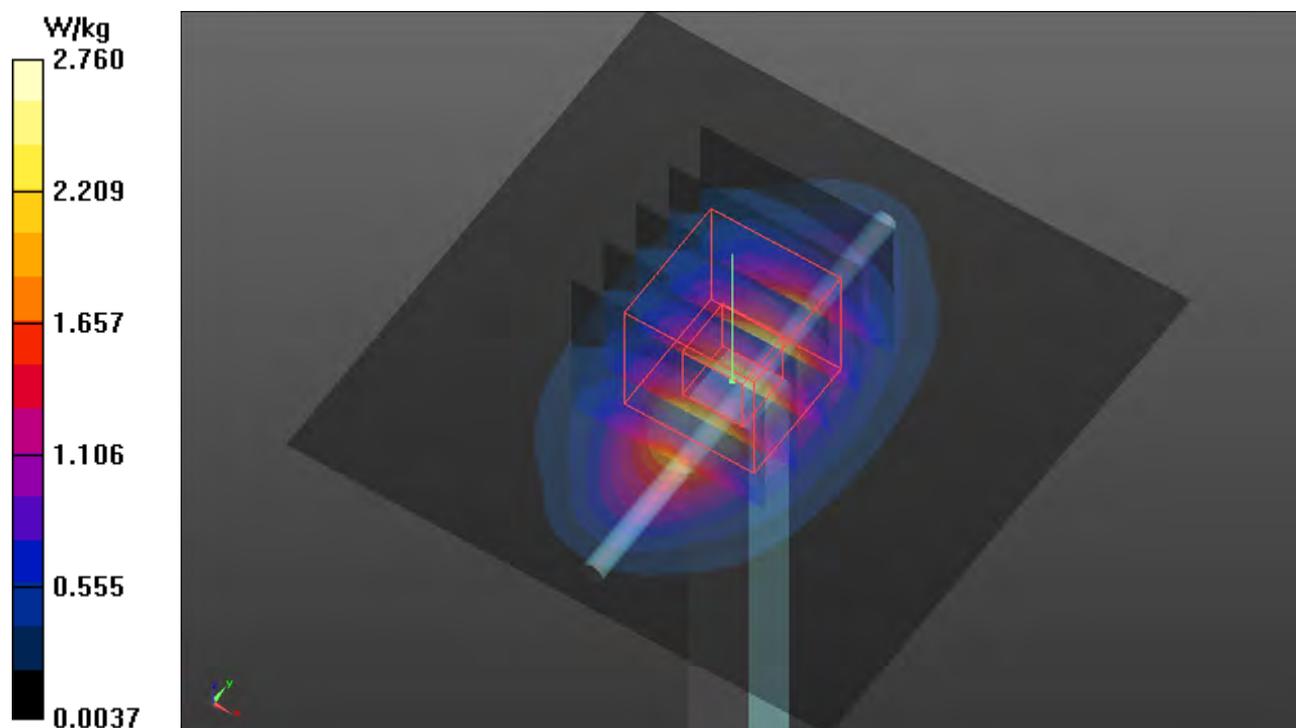
Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 46.25 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 3.25 W/kg

SAR(1 g) = 1.78 W/kg; SAR(10 g) = 0.951 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 2.74 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/04/01

S33 System Check_H750_220401

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

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

Medium: H06T09N1_0401 Medium parameters used: $f = 750$ MHz; $\sigma = 0.895$ S/m; $\epsilon_r = 43.887$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(10.38, 10.38, 10.38) @ 750 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 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) = 0.627 W/kg

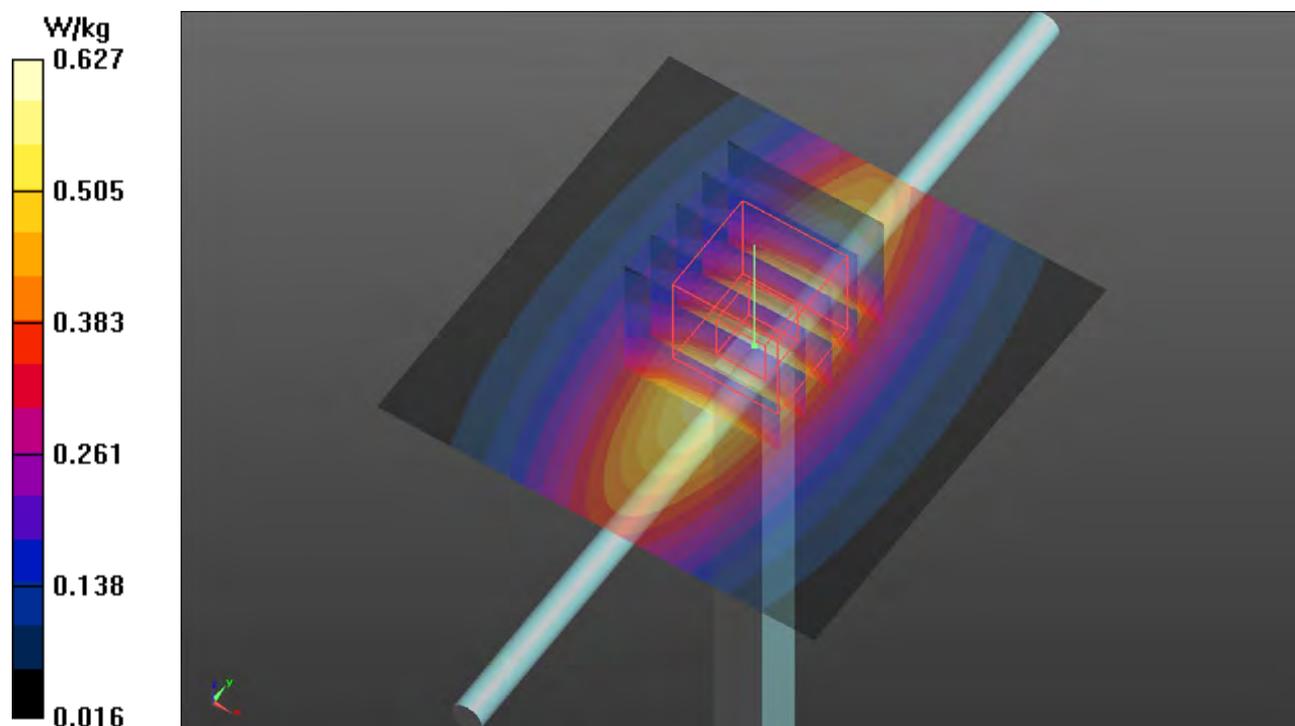
Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.48 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.696 W/kg

SAR(1 g) = 0.453 W/kg; SAR(10 g) = 0.297 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.609 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/04/02

S34a System Check_H3700_220402

DUT: Dipole 3700 MHz; Type: D3700V2; SN: 1017

Communication System: UID 0, CW; Frequency: 3700 MHz; Duty Cycle: 1:1

Medium: H33T42N1_0402 Medium parameters used: $f = 3700$ MHz; $\sigma = 3.108$ S/m; $\epsilon_r = 36.356$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(6.7, 6.7, 6.7) @ 3700 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

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

Maximum value of SAR (interpolated) = 6.95 W/kg

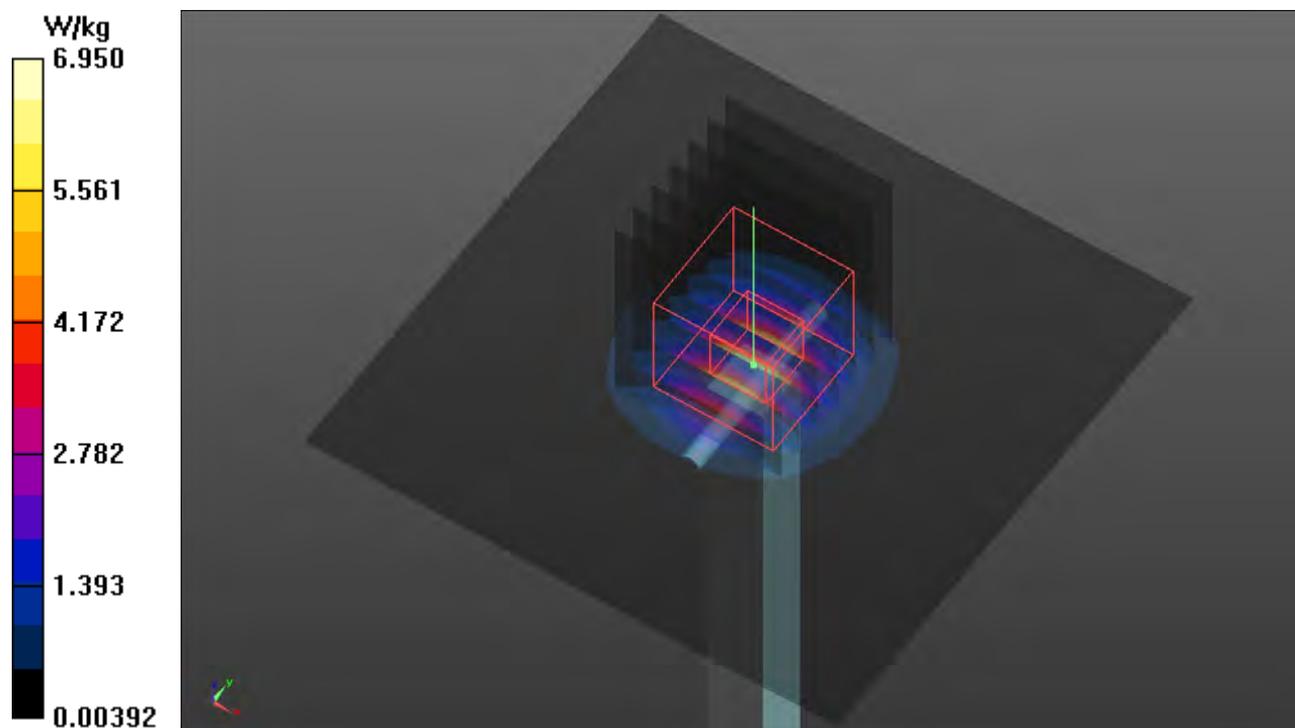
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=2.5$ mm

Reference Value = 49.83 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 9.44 W/kg

SAR(1 g) = 3.46 W/kg; SAR(10 g) = 1.3 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 6.91 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/04/02

S34b System Check_H3900_220402

DUT: Dipole 3900 MHz; Type: D3900V2; SN: 1020

Communication System: UID 0, CW; Frequency: 3900 MHz; Duty Cycle: 1:1

Medium: H33T42N1_0402 Medium parameters used: $f = 3900$ MHz; $\sigma = 3.204$ S/m; $\epsilon_r = 36.371$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(6.6, 6.6, 6.6) @ 3900 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

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

Maximum value of SAR (interpolated) = 5.40 W/kg

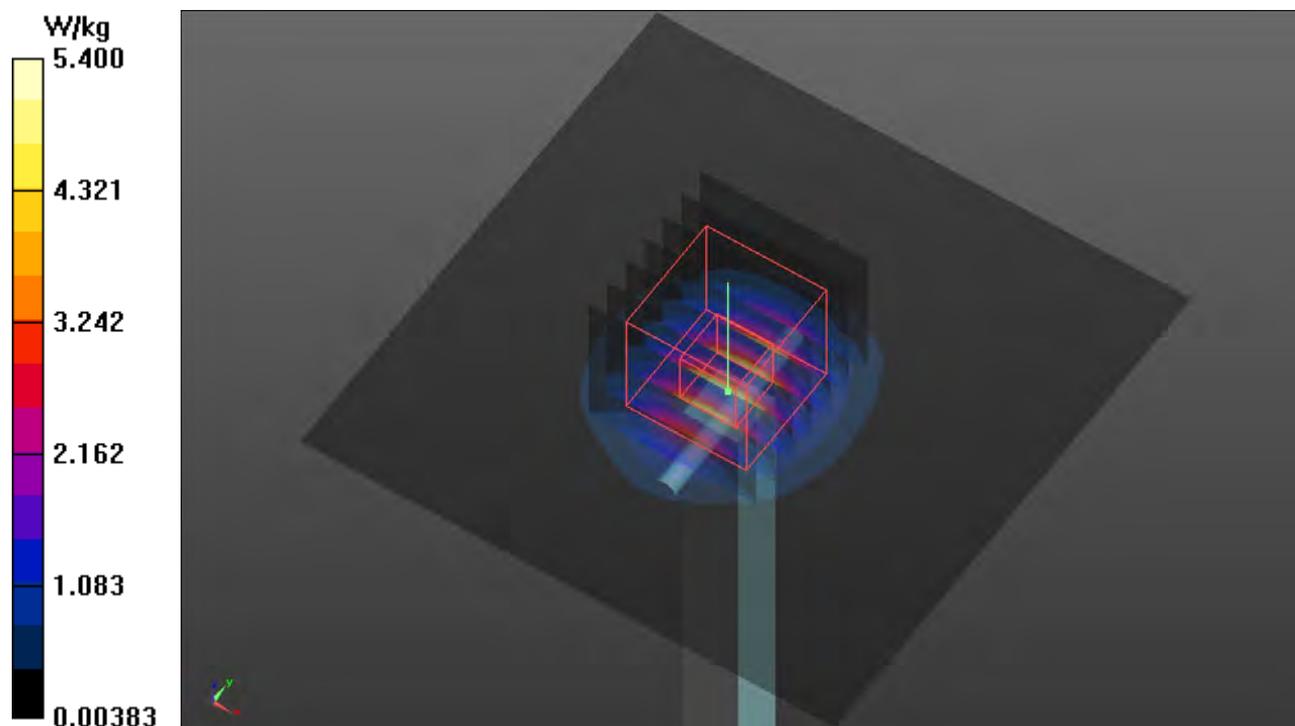
Pin=50mW/Zoom Scan (7x7x6)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=2.5$ mm

Reference Value = 43.01 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 7.20 W/kg

SAR(1 g) = 3.73 W/kg; SAR(10 g) = 1.25 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 5.29 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/04/02

S35 System Check_H3700_220402

DUT: Dipole 3700 MHz; Type: D3700V2; SN: 1017

Communication System: UID 0, CW; Frequency: 3700 MHz; Duty Cycle: 1:1

Medium: H33T42N1_0402 Medium parameters used: $f = 3700$ MHz; $\sigma = 3.108$ S/m; $\epsilon_r = 36.356$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(6.7, 6.7, 6.7) @ 3700 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

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

Maximum value of SAR (interpolated) = 6.95 W/kg

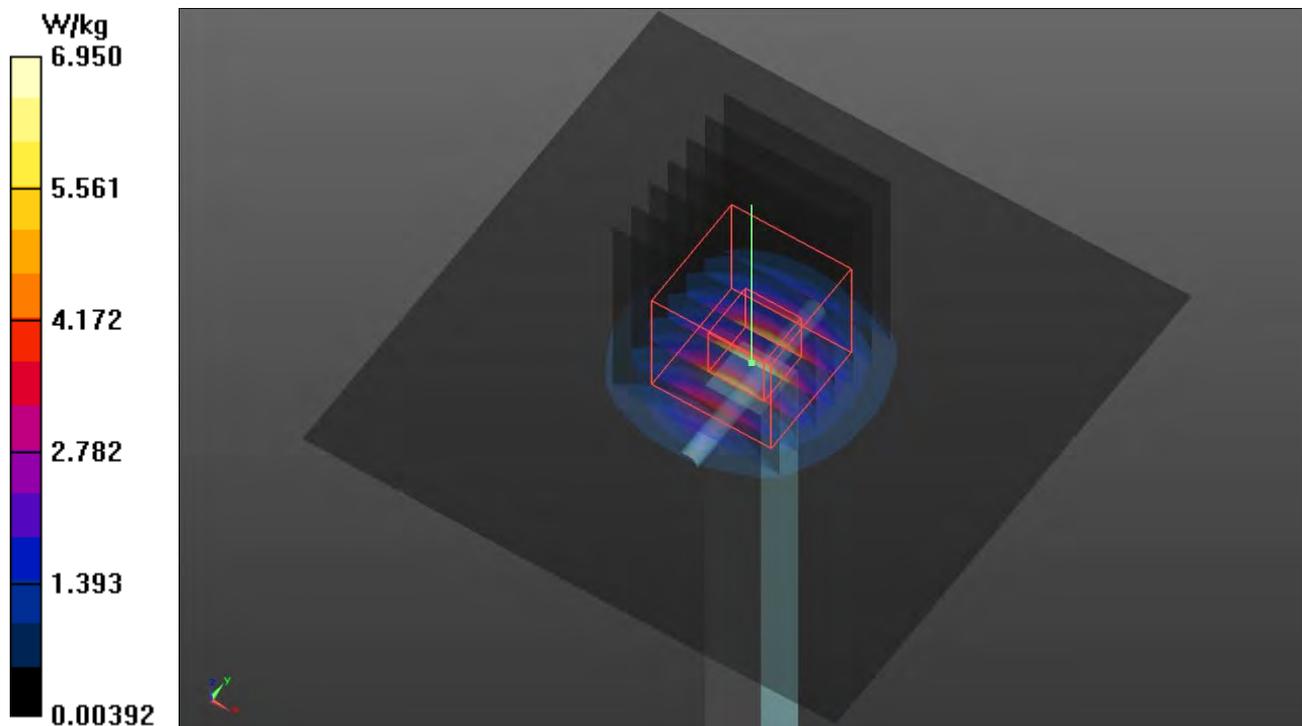
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2.5mm

Reference Value = 49.83 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 9.44 W/kg

SAR(1 g) = 3.46 W/kg; SAR(10 g) = 1.3 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 6.91 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/23

S36 System Check_H2450_220323

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

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

Medium: H19T27N1_0323 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.757$ S/m; $\epsilon_r = 38.55$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(7.49, 7.49, 7.49) @ 2450 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

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

Maximum value of SAR (interpolated) = 4.35 W/kg

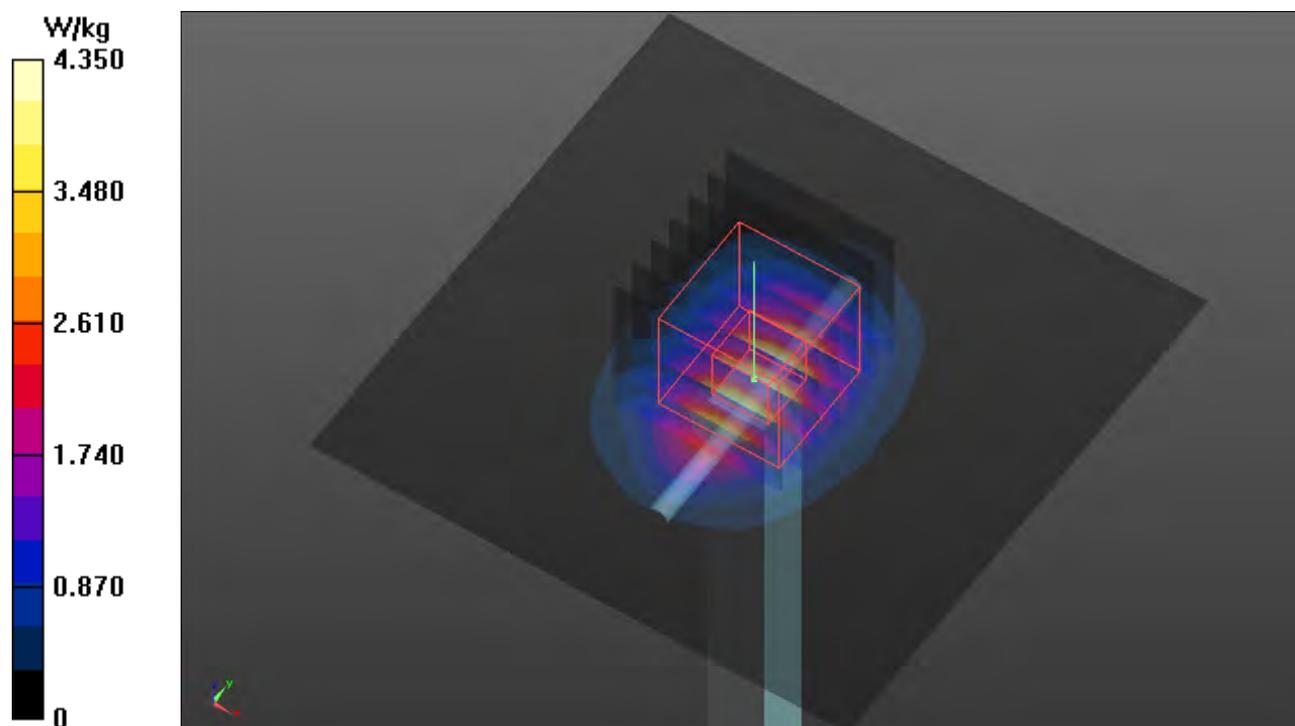
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 51.05 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 5.45 W/kg

SAR(1 g) = 2.58 W/kg; SAR(10 g) = 1.21 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: 2022/03/21

S37 System Check_H5250_220321

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

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

Medium: H34T60N1_0321 Medium parameters used: $f = 5250$ MHz; $\sigma = 4.704$ S/m; $\epsilon_r = 36.205$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(5.1, 5.1, 5.1) @ 5250 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

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

Maximum value of SAR (interpolated) = 8.92 W/kg

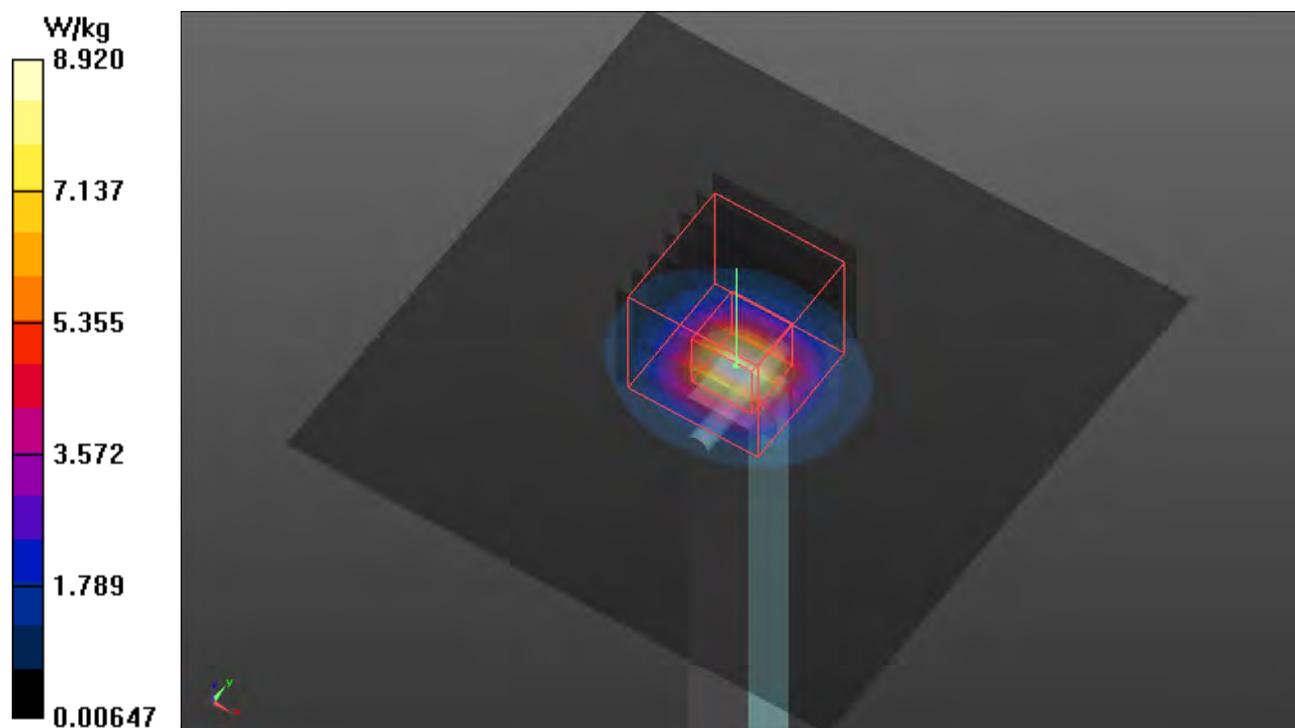
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 49.37 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 14.7 W/kg

SAR(1 g) = 3.85 W/kg; SAR(10 g) = 1.11 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 9.48 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/21

S38 System Check_H5600_220321

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

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

Medium: H34T60N1_0321 Medium parameters used: $f = 5600$ MHz; $\sigma = 4.997$ S/m; $\epsilon_r = 35.803$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(4.6, 4.6, 4.6) @ 5600 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

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

Maximum value of SAR (interpolated) = 9.81 W/kg

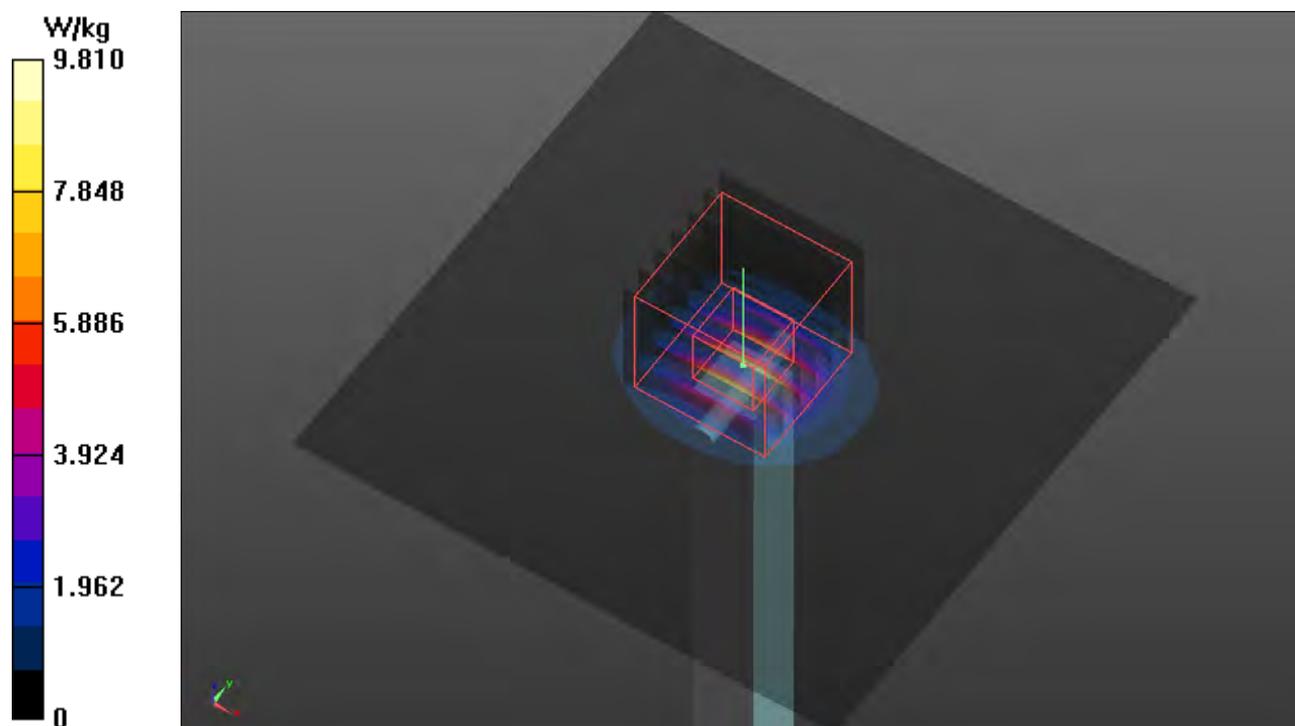
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 50.47 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 17.6 W/kg

SAR(1 g) = 4.07 W/kg; SAR(10 g) = 1.15 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 10.5 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/23

S39 System Check_H5750_220323

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

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

Medium: H34T60N1_0323 Medium parameters used: $f = 5750$ MHz; $\sigma = 5.255$ S/m; $\epsilon_r = 35.49$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(4.8, 4.8, 4.8) @ 5750 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

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

Maximum value of SAR (interpolated) = 8.73 W/kg

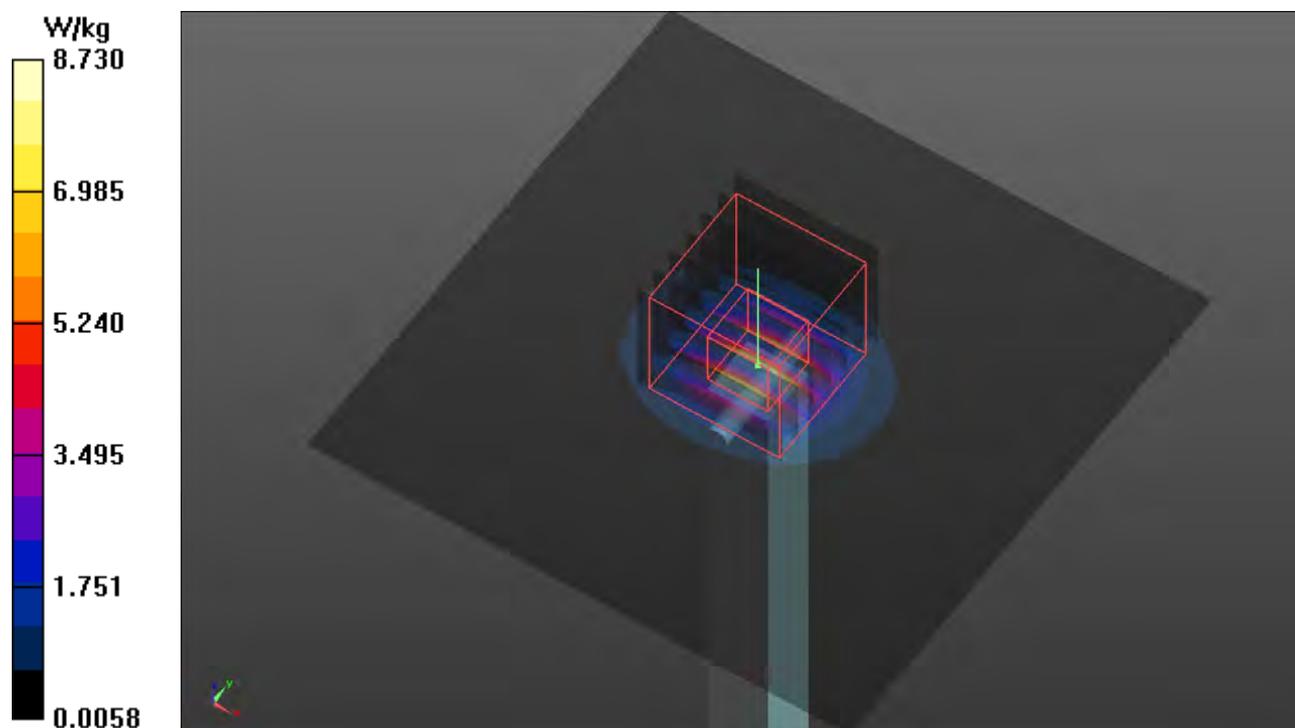
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 45.94 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 15.9 W/kg

SAR(1 g) = 3.62 W/kg; SAR(10 g) = 1.03 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 9.43 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/23

S40 System Check_H2450_220323

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

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

Medium: H19T27N1_0323 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.757$ S/m; $\epsilon_r = 38.55$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(7.49, 7.49, 7.49) @ 2450 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

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

Maximum value of SAR (interpolated) = 4.35 W/kg

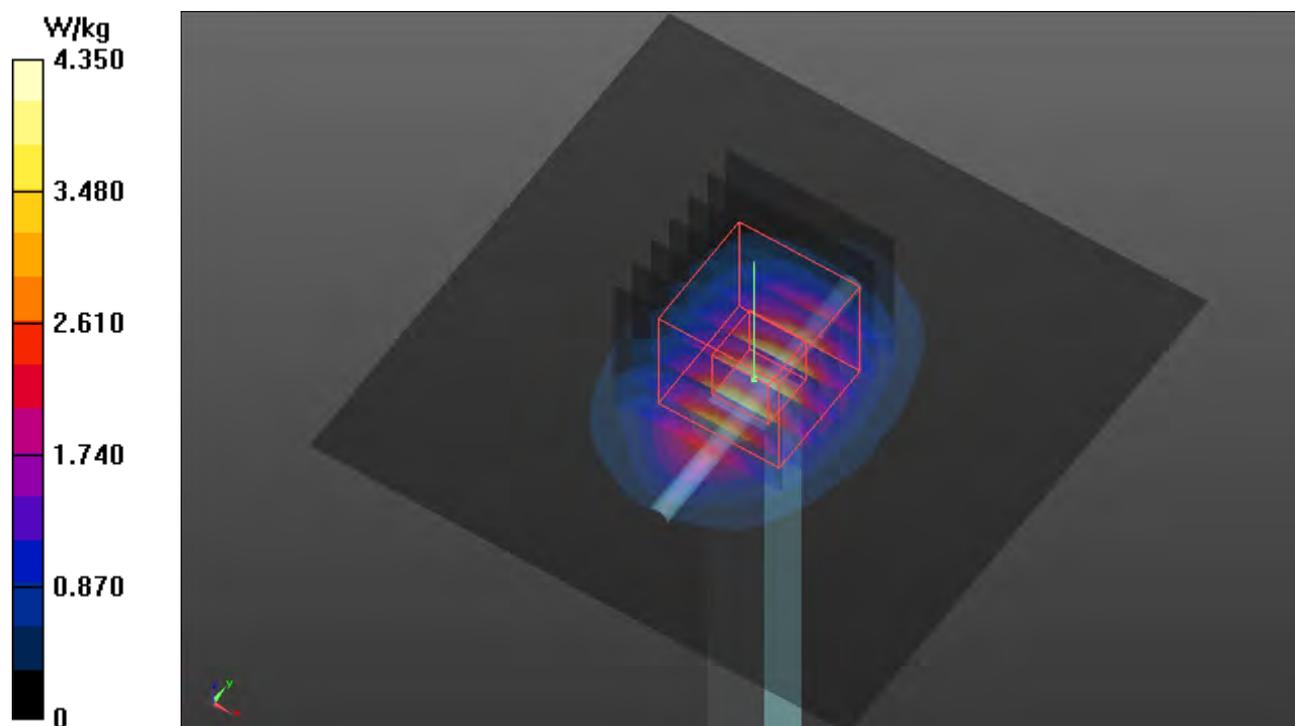
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 51.05 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 5.45 W/kg

SAR(1 g) = 2.58 W/kg; SAR(10 g) = 1.21 W/kg (SAR corrected for target medium)

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



Plots of System Verification

Measurement Report

S41 SAR-System Check_H6500_220407

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole	50.0 x 10.0 x 8.0		6500

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL				6500.0	5.6	6.17	33.8

Hardware Setup

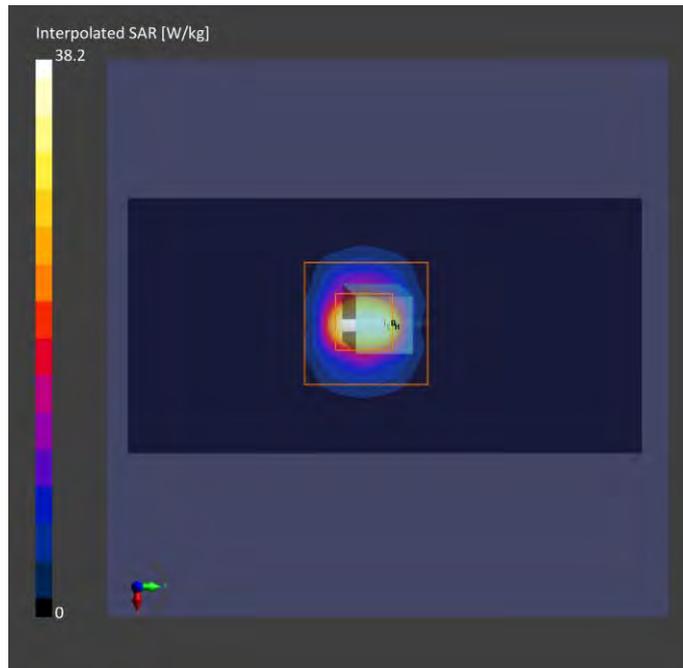
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2105	H50T72N1 , 2022-Apr-07	EX3DV4 - SN7554, 2021-08-26	DAE4 Sn1589, 2021-08-20

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	45.0 x 90.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	7.5 x 7.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-04-07	2022-04-07
psSAR1g [W/Kg]	25.0	29.1
psSAR10g [W/Kg]	5.04	5.39
Power Drift [dB]	-0.08	-0.03



Plots of System Verification

Test Lab: Bureau Veritas ADT SAR/HAC/PD Testing Lab

Power Density Plot No.:

S41 Power Density-System Check_10 GHz_2022.04.08

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
SPEAG, 5G Verification Source 10 GHz	100.0 x 100.0 x 170.0	SN: 1025	Laptop

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5GAir	FRONT 10	Validation band	CW	10000.0 10000	1.0

Hardware Setup

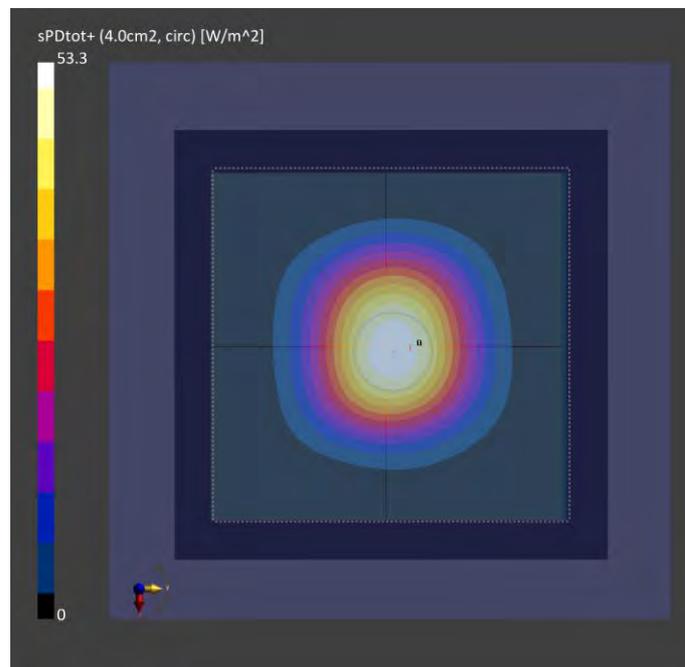
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave	--Air--	EUmmWV4 - SN9438_F1-55GHz, 2021-07-26	DAE4 Sn1590, 2021-09-20

Scan Setup

	5G Scan
Grid Extents [mm]	120.0 x 120.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	10

Measurement Results

	5G Scan
Date	2022-04-08
Avg. Area [cm ²]	4.00
pStotavg[W/m ²]	53.3
pSnavg [W/m ²]	53.2
E _{peak} [V/m]	148
Power Drift [dB]	0.03



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: 2022/03/29

P01 WCDMA II_RMC12.2K_Rear Face_0mm_Ch9262_Ant 0_Power Reduction_w

DUT: BFLF-WTW-P22030374

Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1852.4 MHz; Duty Cycle: 1:1.95
Medium: H16T20N1_0329 Medium parameters used (interpolated): $f = 1852.4$ MHz; $\sigma = 1.417$ S/m; $\epsilon_r = 38.449$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3820; ConvF(7.35, 7.35, 7.35) @ 1852.4 MHz; Calibrated: 2021/07/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2022/02/23
- Phantom: ELI Phantom_1206; Type: QDOVA001BB;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (71x281x1): 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 = 29.53 V/m; Power Drift = 0.06 dB

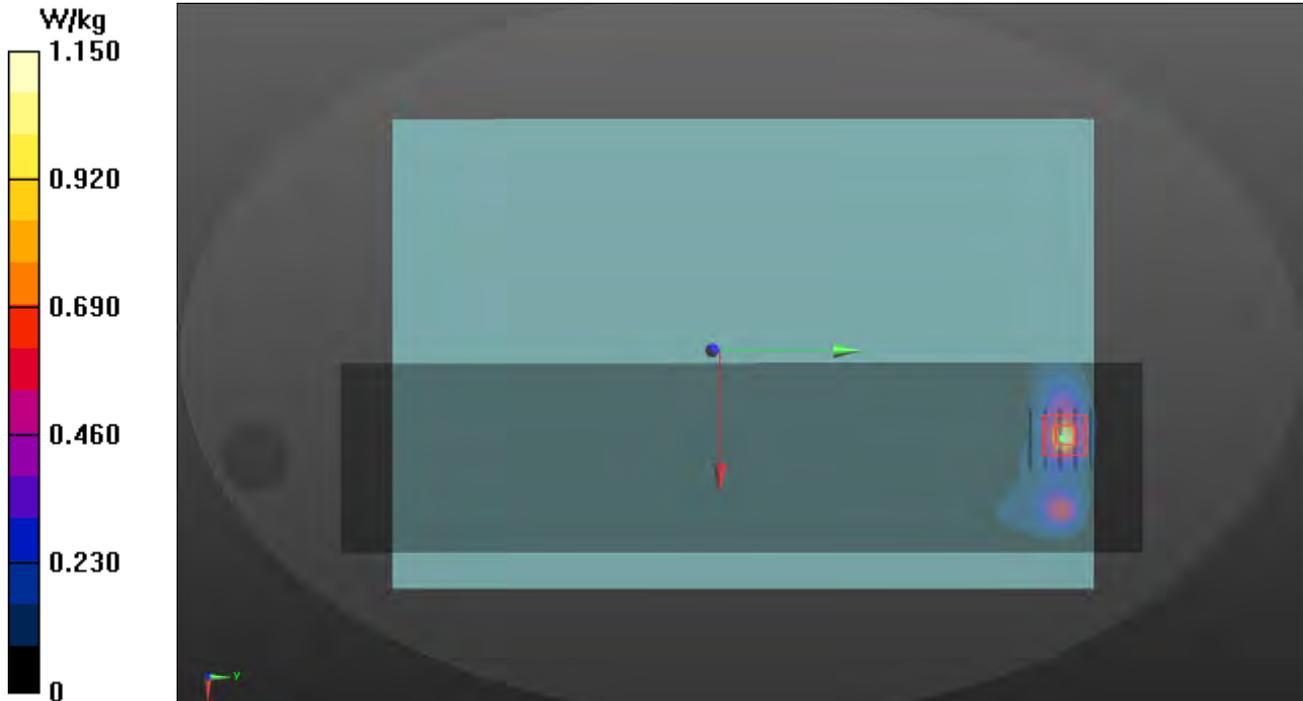
Peak SAR (extrapolated) = 1.58 W/kg

SAR(1 g) = 0.625 W/kg; SAR(10 g) = 0.270 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 9.2 mm

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

Maximum value of SAR (measured) = 1.23 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/26

P02 WCDMA IV_RMC12.2K_Bottom for Laptop_0mm_Ch1413_Ant 0_Power Reduction_w

DUT: BFLF-WTW-P22030374

Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz; Duty Cycle: 1:1.95
Medium: H16T20N1_0326 Medium parameters used: $f = 1733$ MHz; $\sigma = 1.36$ S/m; $\epsilon_r = 38.869$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(8.54, 8.54, 8.54) @ 1732.6 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (71x301x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.760 W/kg

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

Reference Value = 22.46 V/m; Power Drift = 0.03 dB

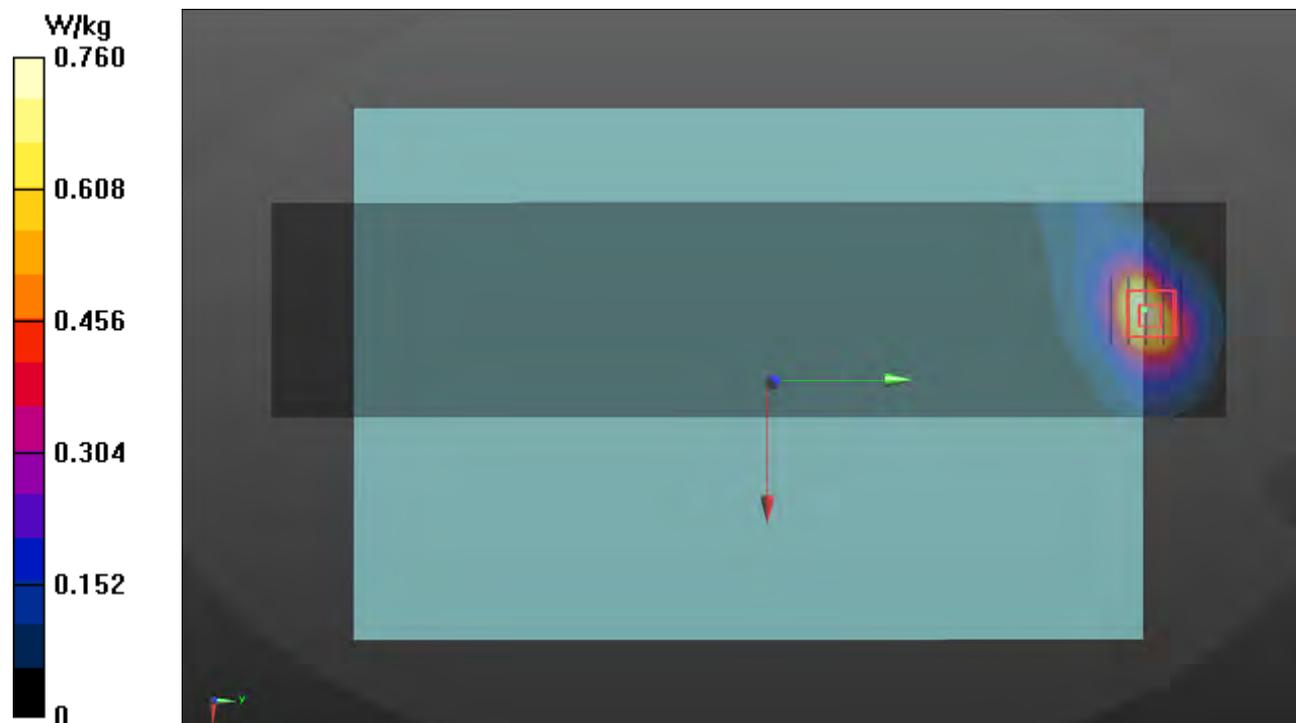
Peak SAR (extrapolated) = 1.15 W/kg

SAR(1 g) = 0.609 W/kg; SAR(10 g) = 0.325 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 10.2 mm

Ratio of SAR at M2 to SAR at M1 = 54.8%

Maximum value of SAR (measured) = 0.911 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/26

P03 WCDMA V_RMC12.2K_Bottom for Laptop_0mm_Ch4182_Ant 0_Power Reduction_w

DUT: BFLF-WTW-P22030374

Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.4 MHz; Duty Cycle: 1:1.95
Medium: H07T10N1_0326 Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.931$ S/m; $\epsilon_r = 40.562$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(9.92, 9.92, 9.92) @ 836.4 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (71x301x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.09 W/kg

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

Reference Value = 33.84 V/m; Power Drift = -0.04 dB

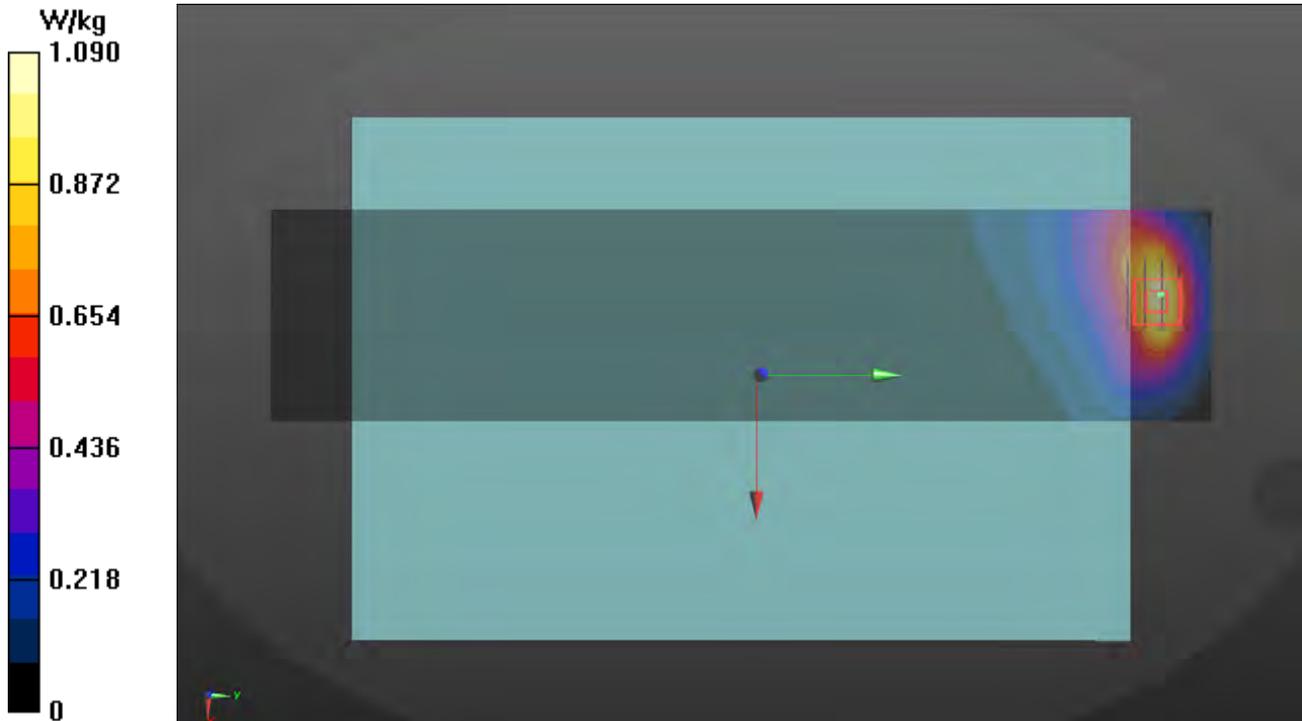
Peak SAR (extrapolated) = 1.31 W/kg

SAR(1 g) = 0.672 W/kg; SAR(10 g) = 0.433 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 = 60.9%

Maximum value of SAR (measured) = 1.11 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/29

P04 LTE 2_QPSK20M_Rear Face_0mm_Ch18700_1RB_OS0_Ant 0_Power Reduction_w

DUT: BFLF-WTW-P22030374

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

Medium: H16T20N1_0329 Medium parameters used: $f = 1860$ MHz; $\sigma = 1.423$ S/m; $\epsilon_r = 38.42$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3820; ConvF(7.35, 7.35, 7.35) @ 1860 MHz; Calibrated: 2021/07/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2022/02/23
- Phantom: ELI Phantom_1206; Type: QDOVA001BB;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (71x281x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.25 W/kg

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

Reference Value = 30.82 V/m; Power Drift = 0.04 dB

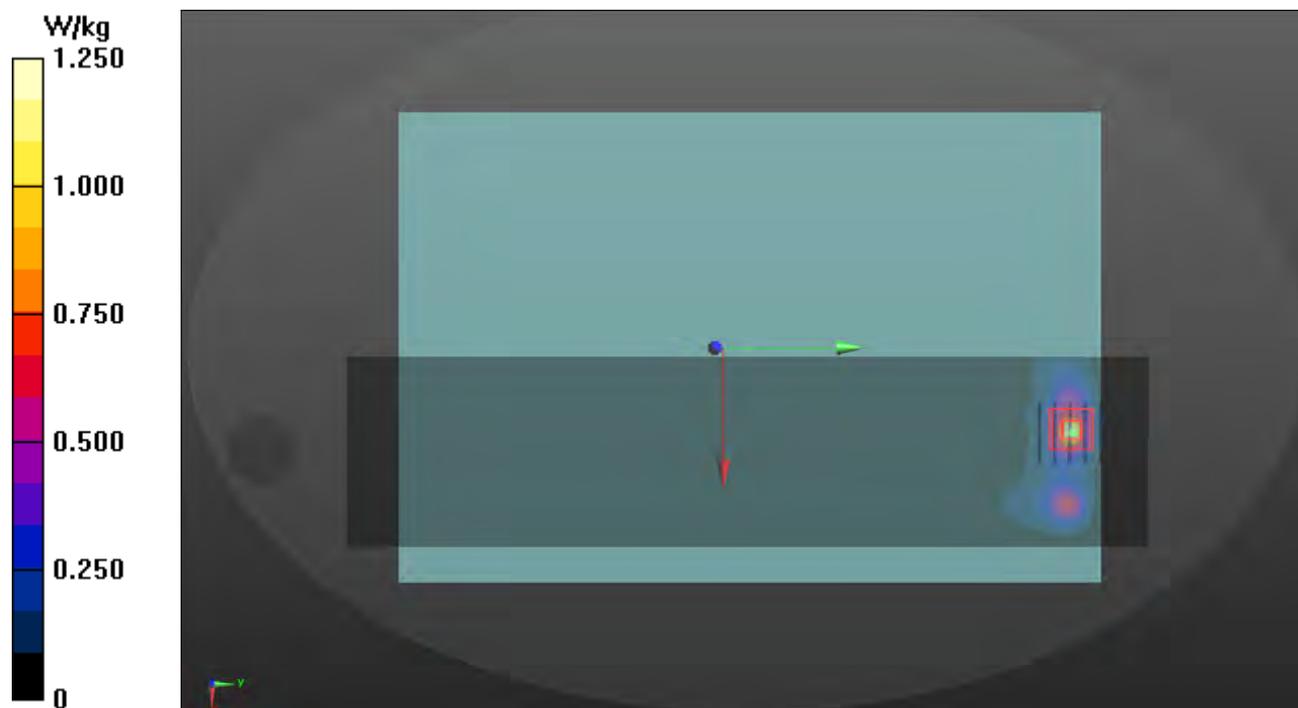
Peak SAR (extrapolated) = 1.58 W/kg

SAR(1 g) = 0.671 W/kg; SAR(10 g) = 0.298 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 = 53.8%

Maximum value of SAR (measured) = 1.24 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/26

P05 LTE 4_QPSK20M_Bottom for Laptop_0mm_Ch20050_1RB_OS0_Ant 0_Power Reduction_w

DUT: BFLF-WTW-P22030374

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

Medium: H16T20N1_0326 Medium parameters used: $f = 1720$ MHz; $\sigma = 1.354$ S/m; $\epsilon_r = 38.888$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(8.54, 8.54, 8.54) @ 1720 MHz; Calibrated: 2021/08/26

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

- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20

- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;

- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (71x301x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.720 W/kg

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

Reference Value = 22.26 V/m; Power Drift = -0.06 dB

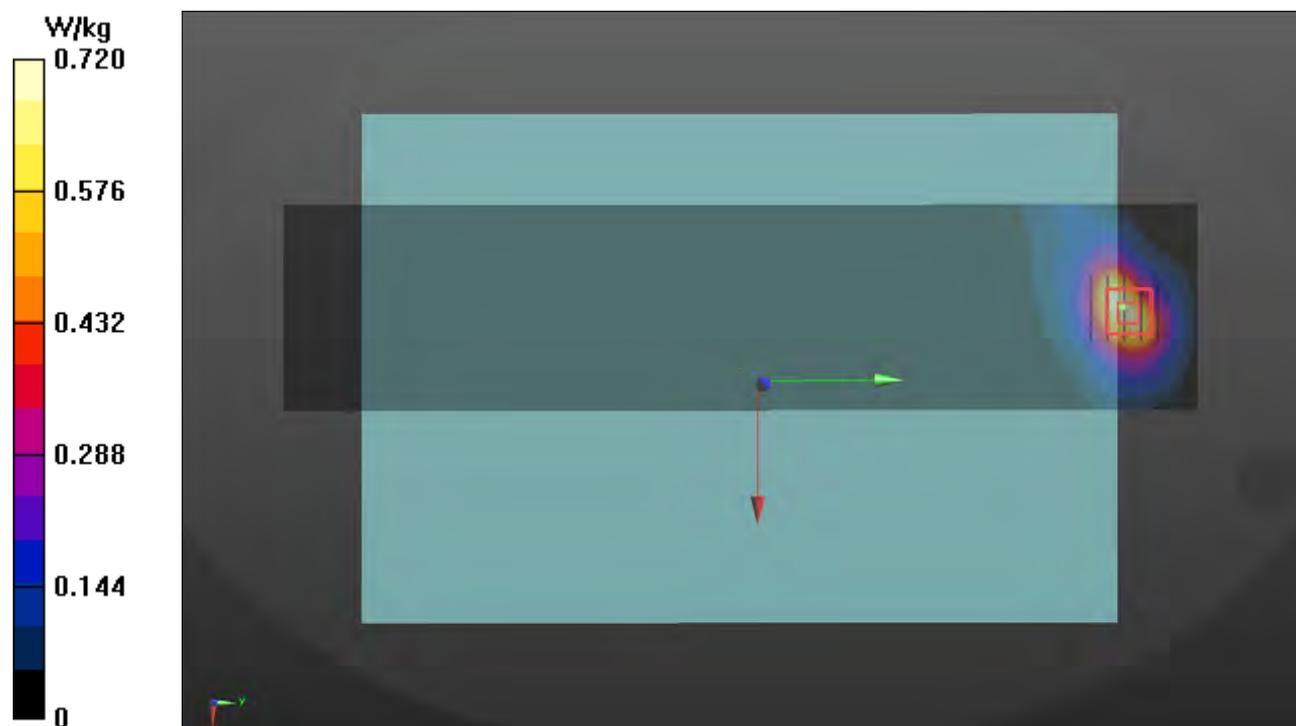
Peak SAR (extrapolated) = 1.16 W/kg

SAR(1 g) = 0.612 W/kg; SAR(10 g) = 0.326 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 10.2 mm

Ratio of SAR at M2 to SAR at M1 = 54.3%

Maximum value of SAR (measured) = 0.930 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/30

P06 LTE 5_QPSK10M_Rear Face_0mm_Ch20450_1RB_OS0_Ant 0_Power Reduction_w

DUT: BFLF-WTW-P22030374

Communication System: UID 10175 - CAG, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 829 MHz; Duty Cycle: 1:3.74
Medium: H07T10N1_0330 Medium parameters used: $f = 829$ MHz; $\sigma = 0.87$ S/m; $\epsilon_r = 43.075$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3820; ConvF(9.09, 9.09, 9.09) @ 829 MHz; Calibrated: 2021/07/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2022/02/23
- Phantom: ELI Phantom_1206; Type: QDOVA001BB;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (71x281x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.945 W/kg

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

Reference Value = 33.93 V/m; Power Drift = -0.05 dB

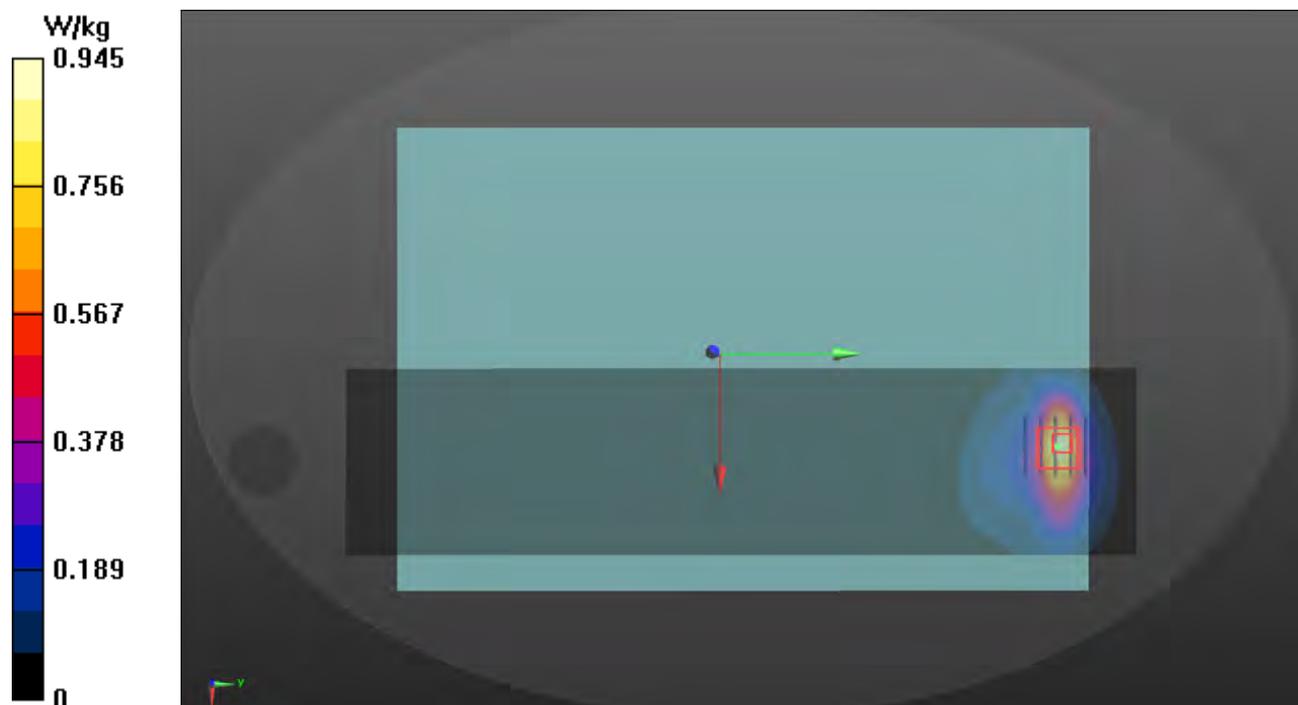
Peak SAR (extrapolated) = 1.26 W/kg

SAR(1 g) = 0.581 W/kg; SAR(10 g) = 0.306 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 9.7 mm

Ratio of SAR at M2 to SAR at M1 = 58.3%

Maximum value of SAR (measured) = 0.888 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/29

P07 LTE 7_QPSK20M_Rear Face_0mm_Ch21350_1RB_OS0_Ant 0_Power Reduction_w

DUT: BFLF-WTW-P22030374

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

Medium: H19T27N1_0329 Medium parameters used: $f = 2560$ MHz; $\sigma = 1.866$ S/m; $\epsilon_r = 38.457$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3820; ConvF(6.7, 6.7, 6.7) @ 2560 MHz; Calibrated: 2021/07/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2022/02/23
- Phantom: ELI Phantom_1206; Type: QDOVA001BB;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (91x351x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 1.12 W/kg

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

Reference Value = 25.83 V/m; Power Drift = 0.09 dB

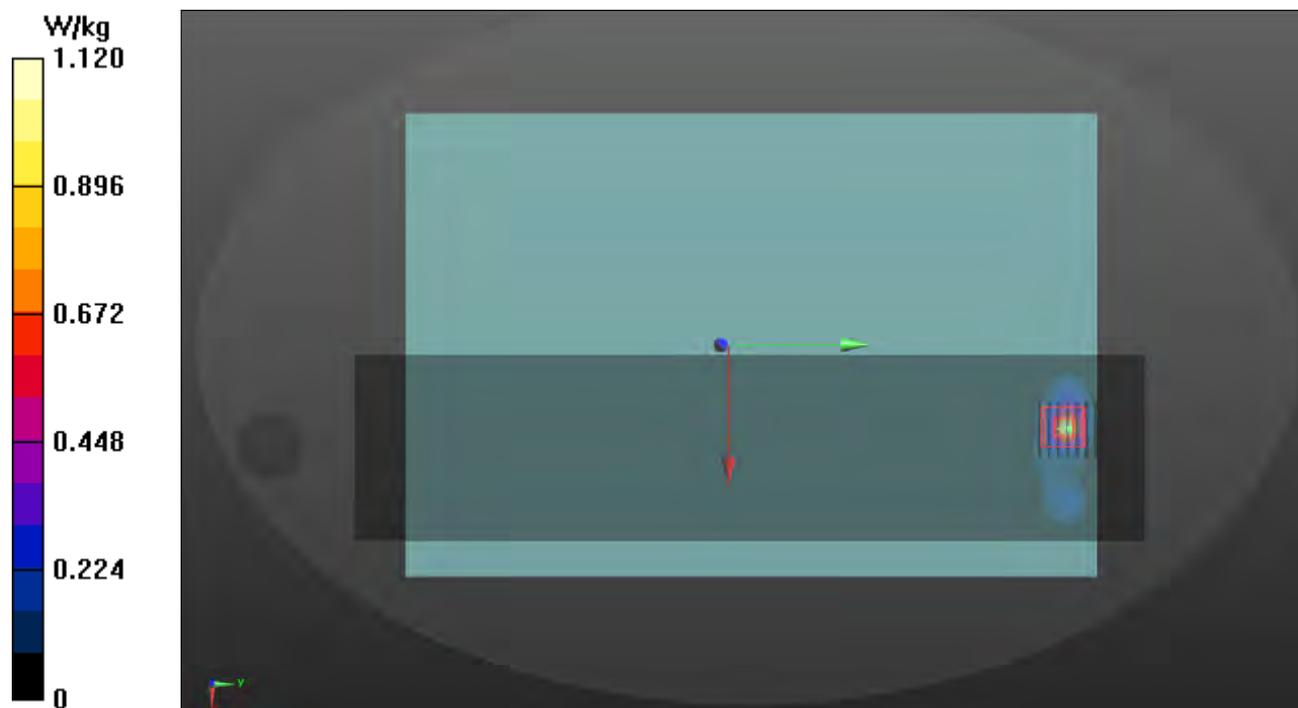
Peak SAR (extrapolated) = 1.80 W/kg

SAR(1 g) = 0.644 W/kg; SAR(10 g) = 0.229 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 5.6 mm

Ratio of SAR at M2 to SAR at M1 = 50.6%

Maximum value of SAR (measured) = 1.19 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/28

P08 LTE 12_QPSK10M_Rear Face_0mm_Ch23095_1RB_OS0_Ant 0_Power Reduction_w

DUT: BFLF-WTW-P22030374

Communication System: UID 10175 - CAG, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 707.5 MHz; Duty Cycle: 1:3.74

Medium: H06T09N1_0328 Medium parameters used: $f = 707.5$ MHz; $\sigma = 0.907$ S/m; $\epsilon_r = 42.416$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(10.38, 10.38, 10.38) @ 707.5 MHz; Calibrated: 2021/08/26

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

- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20

- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;

- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (81x301x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.297 W/kg

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

Reference Value = 18.82 V/m; Power Drift = -0.18 dB

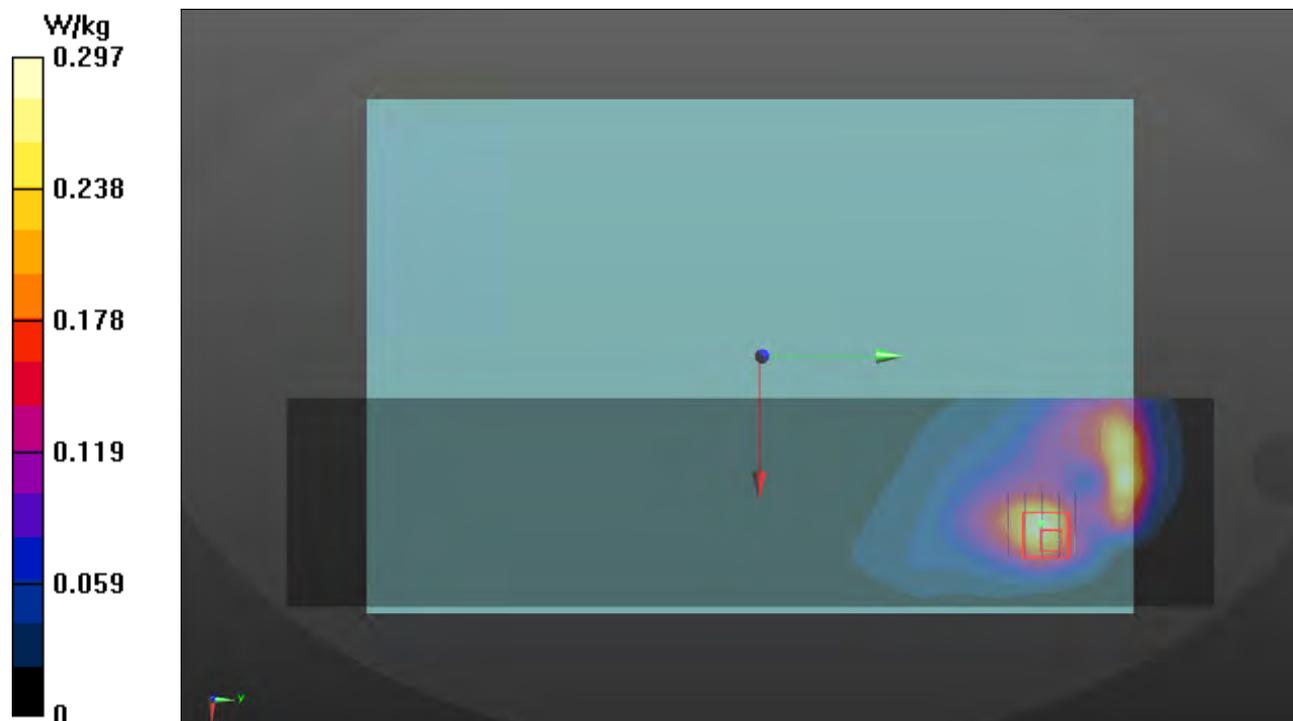
Peak SAR (extrapolated) = 0.654 W/kg

SAR(1 g) = 0.289 W/kg; SAR(10 g) = 0.149 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 = 45.5%

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



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/28

P09 LTE 13_QPSK10M_Bottom for Laptop_0mm_Ch23230_1RB_OS0_Ant 0_Power Reduction_w

DUT: BFLF-WTW-P22030374

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

Medium: H06T09N1_0328 Medium parameters used: $f = 782$ MHz; $\sigma = 0.933$ S/m; $\epsilon_r = 42.225$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(10.38, 10.38, 10.38) @ 782 MHz; Calibrated: 2021/08/26

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

- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20

- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;

- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (101x301x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.878 W/kg

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

Reference Value = 29.72 V/m; Power Drift = -0.02 dB

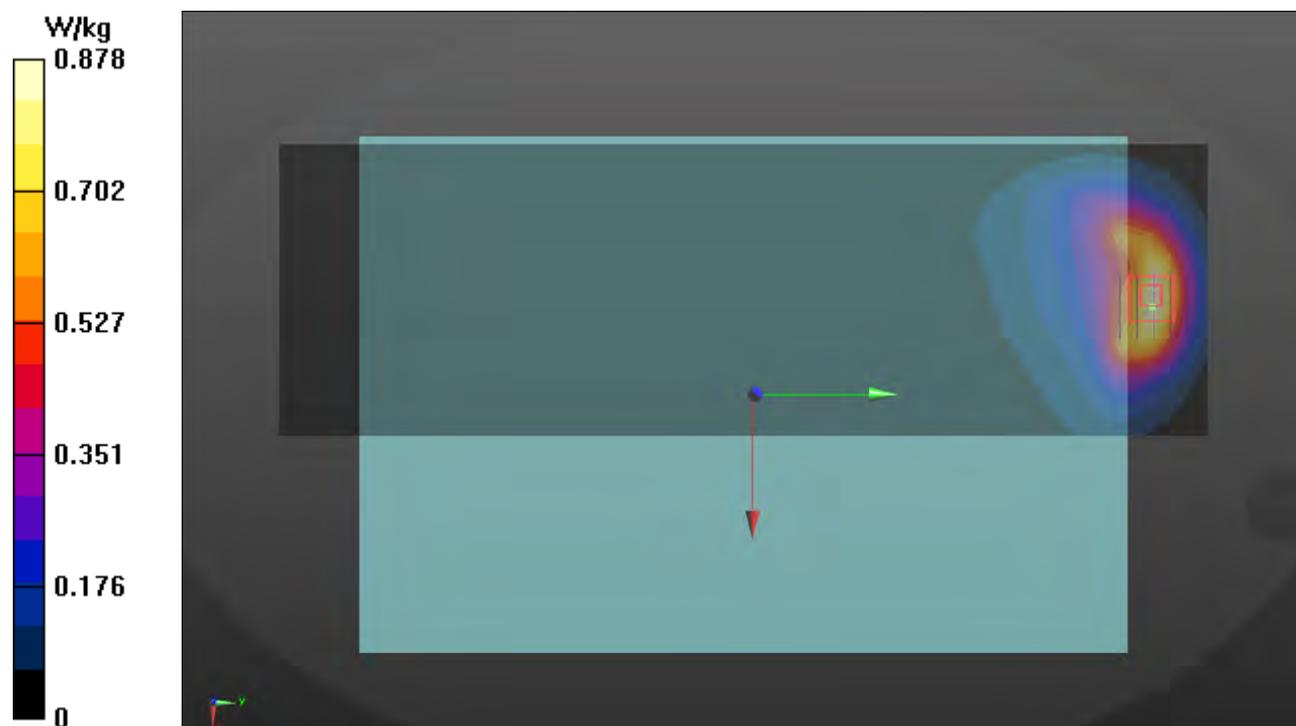
Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.679 W/kg; SAR(10 g) = 0.418 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 12.8 mm

Ratio of SAR at M2 to SAR at M1 = 59.2%

Maximum value of SAR (measured) = 1.04 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/28

P10 LTE 14_QPSK10M_Bottom for Laptop_0mm_Ch23330_1RB_OS0_Ant 0_Power Reduction_w

DUT: BFLF-WTW-P22030374

Communication System: UID 10175 - CAG, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 793 MHz; Duty Cycle: 1:3.74

Medium: H06T09N1_0328 Medium parameters used: $f = 793$ MHz; $\sigma = 0.937$ S/m; $\epsilon_r = 42.178$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(10.38, 10.38, 10.38) @ 793 MHz; Calibrated: 2021/08/26

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

- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20

- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;

- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (101x301x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.816 W/kg

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

Reference Value = 28.29 V/m; Power Drift = -0.01 dB

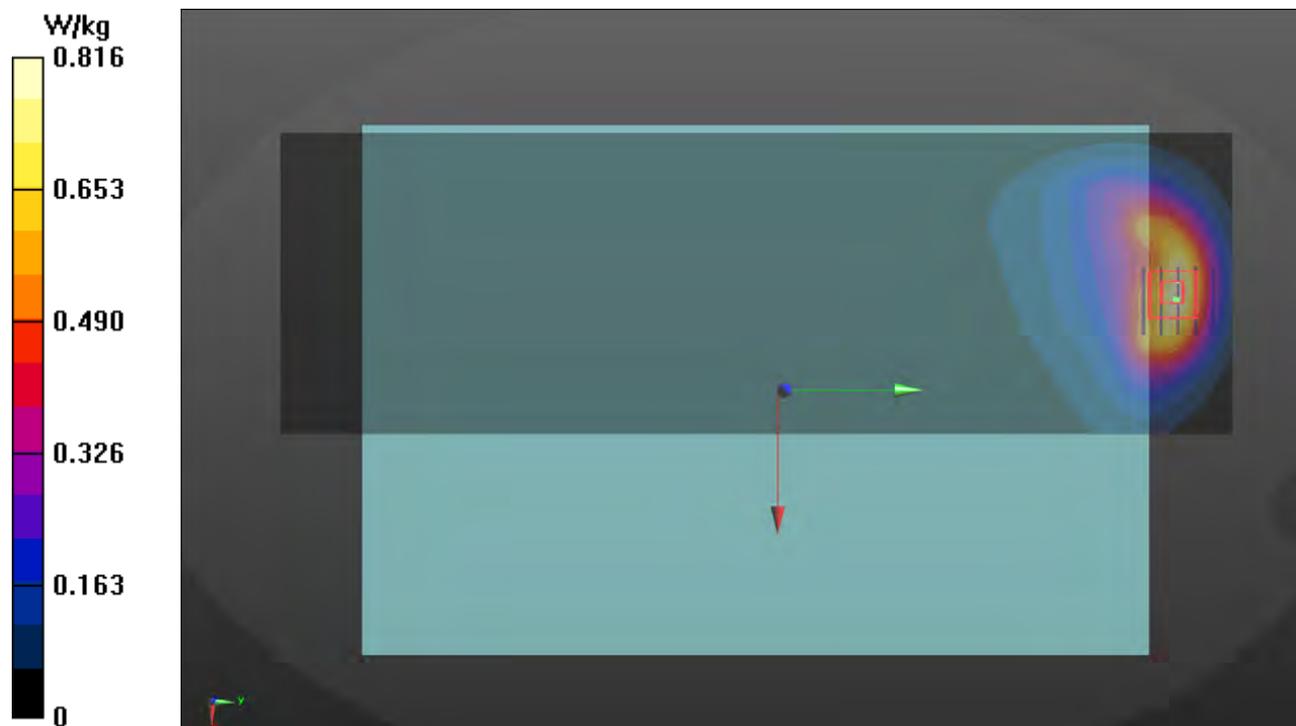
Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.645 W/kg; SAR(10 g) = 0.399 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 13.7 mm

Ratio of SAR at M2 to SAR at M1 = 59.7%

Maximum value of SAR (measured) = 0.951 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/31

P11 LTE 17_QPSK10M_Rear Face_0mm_Ch23800_1RB_OS0_Ant 0_Power Reduction_w

DUT: BFLF-WTW-P22030374

Communication System: UID 10175 - CAG, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 711 MHz; Duty Cycle: 1:3.74

Medium: H06T09N1_0331 Medium parameters used: $f = 711$ MHz; $\sigma = 0.881$ S/m; $\epsilon_r = 40.76$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3820; ConvF(9.62, 9.62, 9.62) @ 711 MHz; Calibrated: 2021/07/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2022/02/23
- Phantom: ELI Phantom_1206; Type: QDOVA001BB;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (71x281x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.869 W/kg

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

Reference Value = 32.61 V/m; Power Drift = -0.02 dB

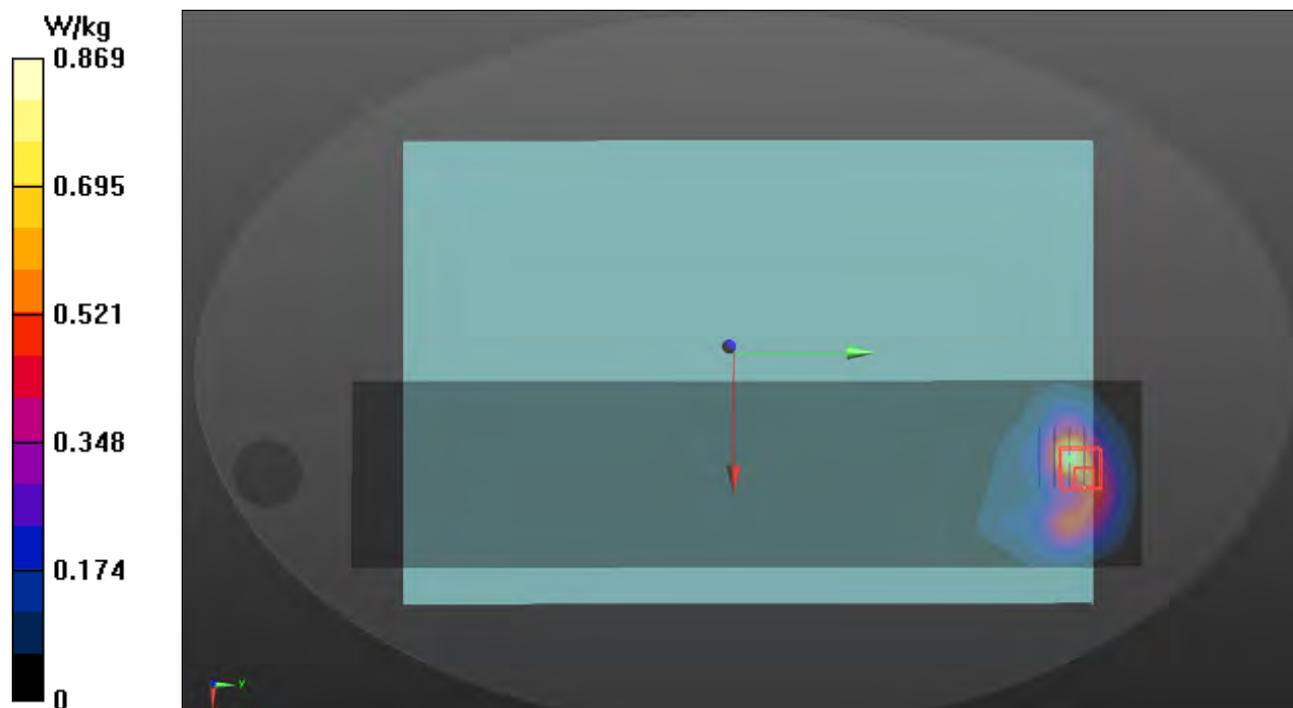
Peak SAR (extrapolated) = 1.53 W/kg

SAR(1 g) = 0.658 W/kg; SAR(10 g) = 0.335 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 9.2 mm

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

Maximum value of SAR (measured) = 1.14 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/04/01

P12 LTE 25_QPSK20M_Rear Face_0mm_Ch26365_1RB_OS0_Ant 0_Power Reduction_w

DUT: BFLF-WTW-P22030374

Communication System: UID 10169 - CAE, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 1882.5 MHz; Duty Cycle: 1:3.74

Medium: H16T20N1_0401 Medium parameters used (interpolated): $f = 1882.5$ MHz; $\sigma = 1.453$ S/m; $\epsilon_r = 38.846$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3820; ConvF(7.35, 7.35, 7.35) @ 1882.5 MHz; Calibrated: 2021/07/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2022/02/23
- Phantom: ELI Phantom_1206; Type: QDOVA001BB;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (71x281x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

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

Reference Value = 31.56 V/m; Power Drift = -0.12 dB

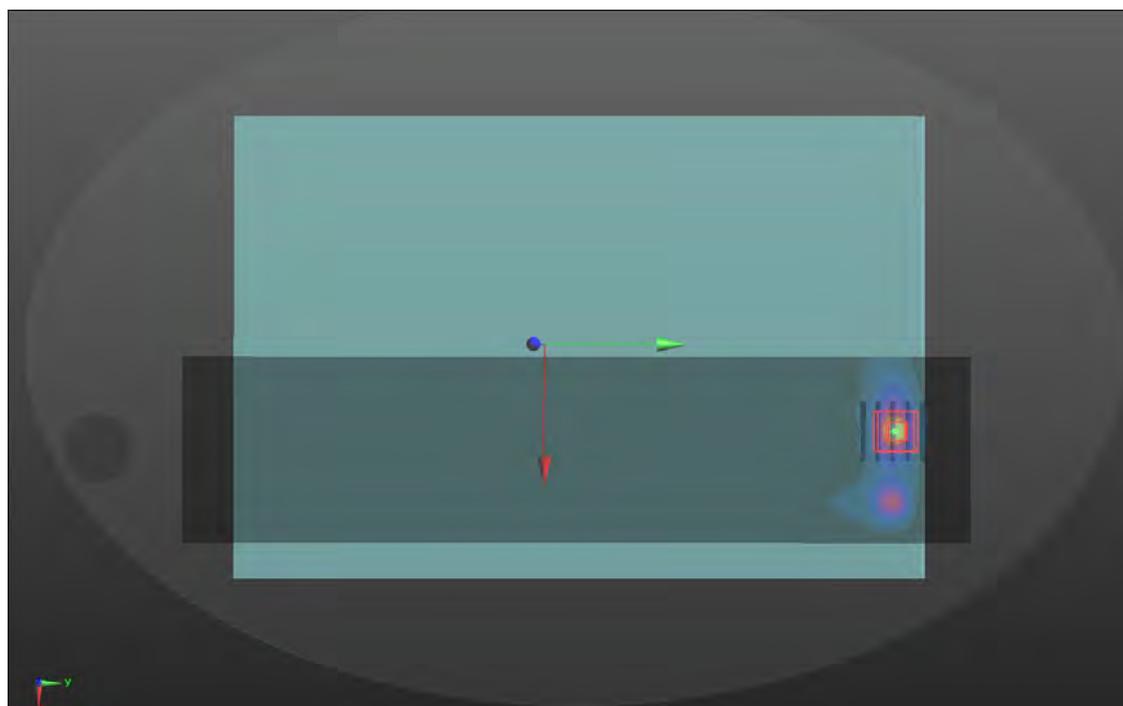
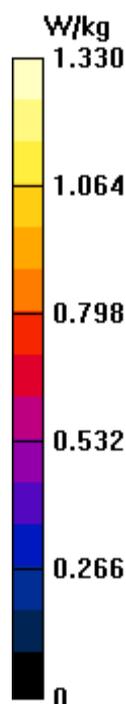
Peak SAR (extrapolated) = 1.71 W/kg

SAR(1 g) = 0.669 W/kg; SAR(10 g) = 0.291 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 9.8 mm

Ratio of SAR at M2 to SAR at M1 = 51.1%

Maximum value of SAR (measured) = 1.34 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/26

P13 LTE 26_QPSK15M_Bottom for Laptop_0mm_Ch26965_1RB_OS0_Ant 0_Power Reduction_w

DUT: BFLF-WTW-P22030374

Communication System: UID 10181 - CAE, LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK); Frequency: 841.5 MHz; Duty Cycle: 1:3.74

Medium: H07T10N1_0326 Medium parameters used (interpolated): $f = 841.5$ MHz; $\sigma = 0.933$ S/m; $\epsilon_r = 40.552$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(9.92, 9.92, 9.92) @ 841.5 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (71x301x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.955 W/kg

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

Reference Value = 29.92 V/m; Power Drift = -0.02 dB

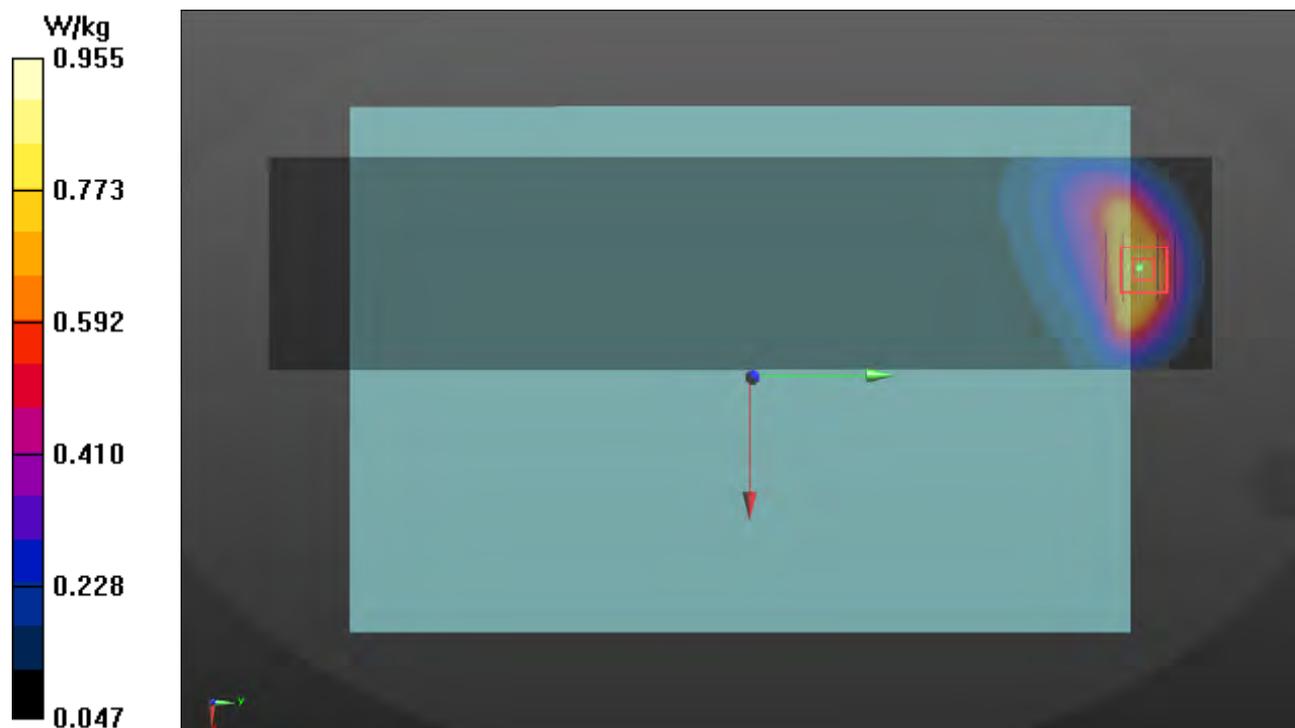
Peak SAR (extrapolated) = 1.12 W/kg

SAR(1 g) = 0.664 W/kg; SAR(10 g) = 0.411 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 14.4 mm

Ratio of SAR at M2 to SAR at M1 = 60.5%

Maximum value of SAR (measured) = 0.809 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/29

P14 LTE 30_QPSK10M_Rear Face_0mm_Ch27710_1RB_OS0_Ant 0_Power Reduction_w

DUT: BFLF-WTW-P22030374

Communication System: UID 10175 - CAG, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 2310 MHz; Duty Cycle: 1:3.74

Medium: H19T27N1_0329 Medium parameters used: $f = 2310$ MHz; $\sigma = 1.726$ S/m; $\epsilon_r = 38.428$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(7.68, 7.68, 7.68) @ 2310 MHz; Calibrated: 2021/08/26

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

- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20

- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;

- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (91x371x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.663 W/kg

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

Reference Value = 19.78 V/m; Power Drift = -0.11 dB

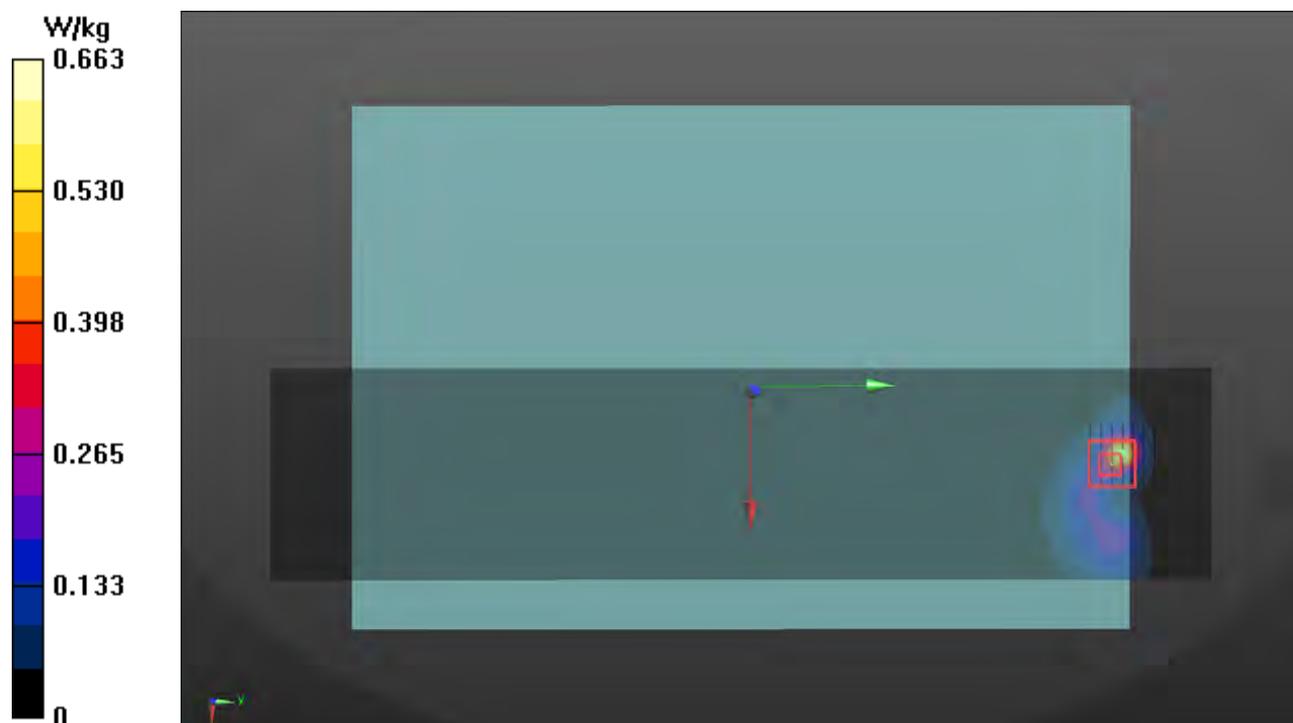
Peak SAR (extrapolated) = 2.01 W/kg

SAR(1 g) = 0.683 W/kg; SAR(10 g) = 0.250 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 5.4 mm

Ratio of SAR at M2 to SAR at M1 = 37.6%

Maximum value of SAR (measured) = 1.50 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/04/01

P15 LTE 38_QPSK20M_Rear Face_0mm_Ch38150_1RB_OS0_Ant 0_Power Reduction_w

DUT: BFLF-WTW-P22030374

Communication System: UID 10172 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 2610 MHz; Duty Cycle: 1:8.33

Medium: H19T27N1_0401 Medium parameters used: $f = 2610$ MHz; $\sigma = 1.908$ S/m; $\epsilon_r = 38.485$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3820; ConvF(6.7, 6.7, 6.7) @ 2610 MHz; Calibrated: 2021/07/28

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

- Electronics: DAE4 Sn1431; Calibrated: 2022/02/23

- Phantom: ELI Phantom_1206; Type: QDOVA001BB;

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

Area Scan (91x351x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 1.46 W/kg

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

Reference Value = 29.23 V/m; Power Drift = -0.03 dB

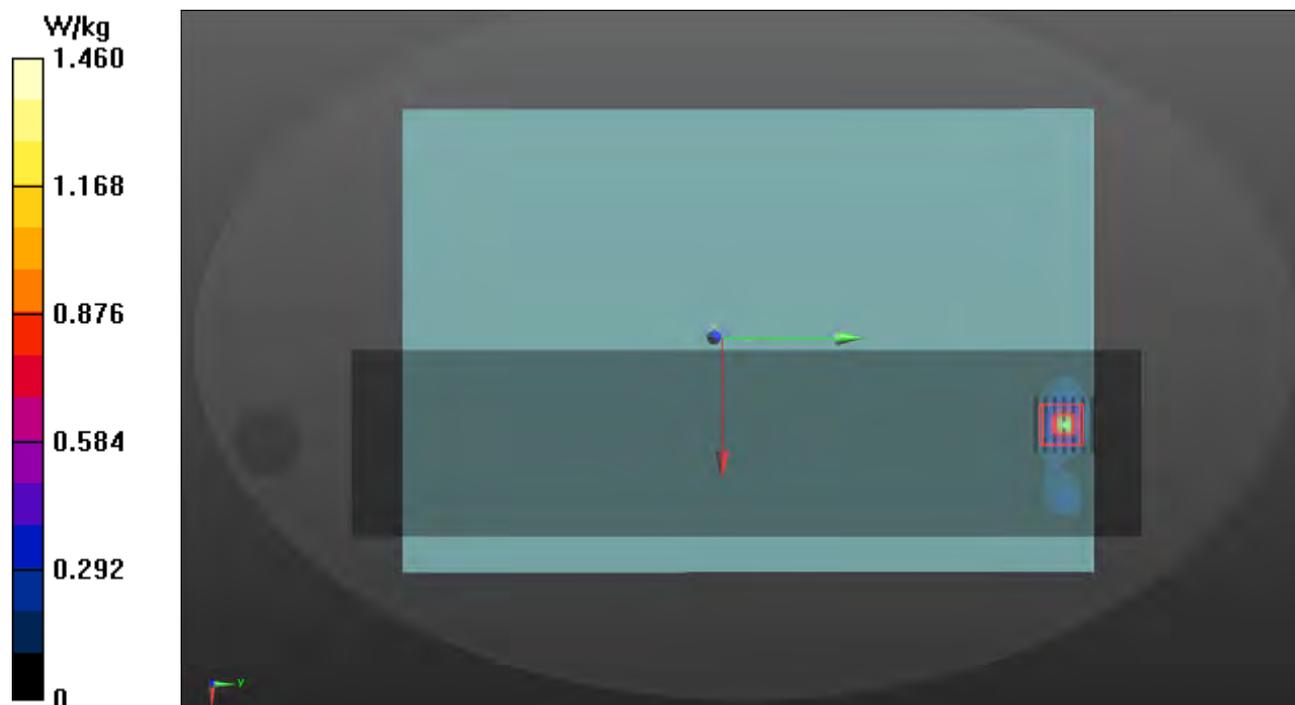
Peak SAR (extrapolated) = 1.61 W/kg

SAR(1 g) = 0.580 W/kg; SAR(10 g) = 0.207 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 9.4 mm

Ratio of SAR at M2 to SAR at M1 = 58.5%

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



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/29

P16 LTE 40_QPSK20M_Rear Face_0mm_Ch39550_1RB_OS0_Ant 0_Power Reduction_w

DUT: BFLF-WTW-P22030374

Communication System: UID 10172 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 2390 MHz; Duty Cycle: 1:8.33

Medium: H19T27N1_0329 Medium parameters used: $f = 2390$ MHz; $\sigma = 1.808$ S/m; $\epsilon_r = 38.173$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(7.68, 7.68, 7.68) @ 2390 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (91x371x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.602 W/kg

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

Reference Value = 18.30 V/m; Power Drift = -0.09 dB

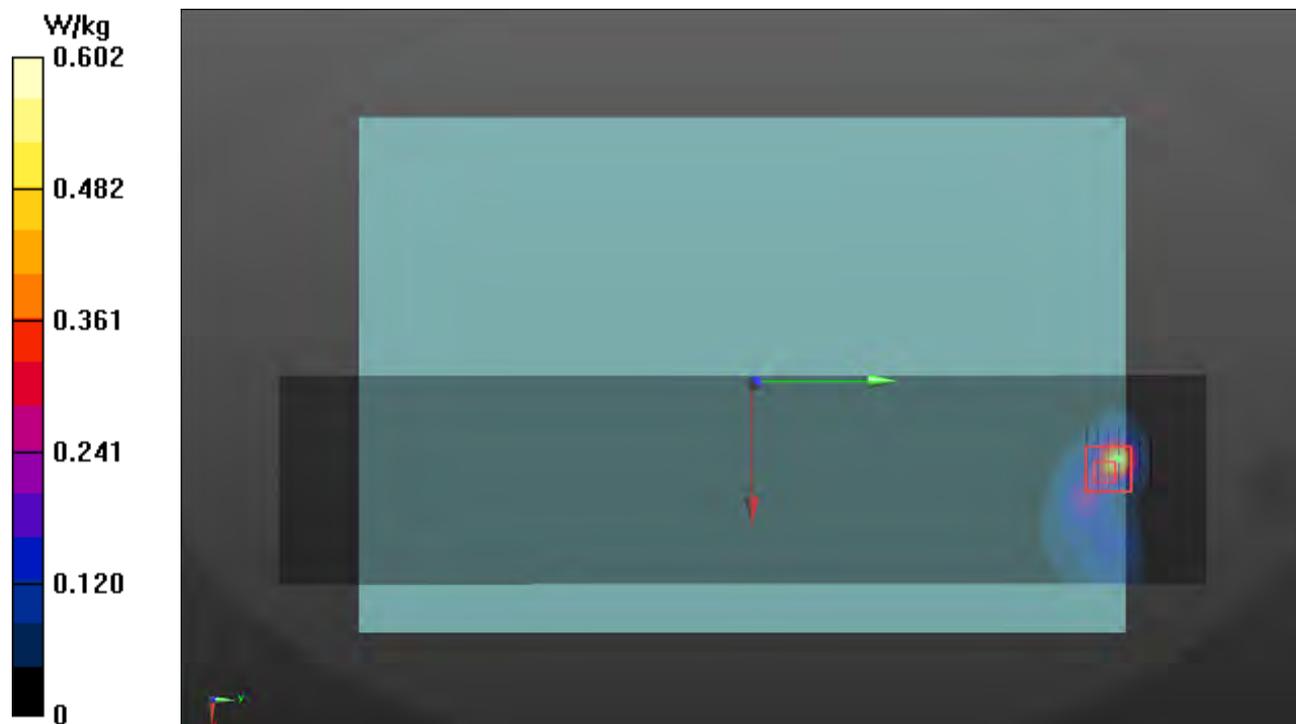
Peak SAR (extrapolated) = 1.87 W/kg

SAR(1 g) = 0.645 W/kg; SAR(10 g) = 0.233 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 5.4 mm

Ratio of SAR at M2 to SAR at M1 = 37.5%

Maximum value of SAR (measured) = 1.39 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/22

P17 LTE 41_QPSK20M_Rear Face_0mm_Ch40620_1RB_OS0_Ant 2_Power Reduction_w

DUT: BFLF-WTW-P22030374

Communication System: UID 10172 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 2593 MHz; Duty Cycle: 1:8.33

Medium: H19T27N1_0322 Medium parameters used (interpolated): $f = 2593$ MHz; $\sigma = 2.022$ S/m; $\epsilon_r = 37.473$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(7.3, 7.3, 7.3) @ 2593 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (91x371x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.220 W/kg

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

Reference Value = 10.25 V/m; Power Drift = -0.08 dB

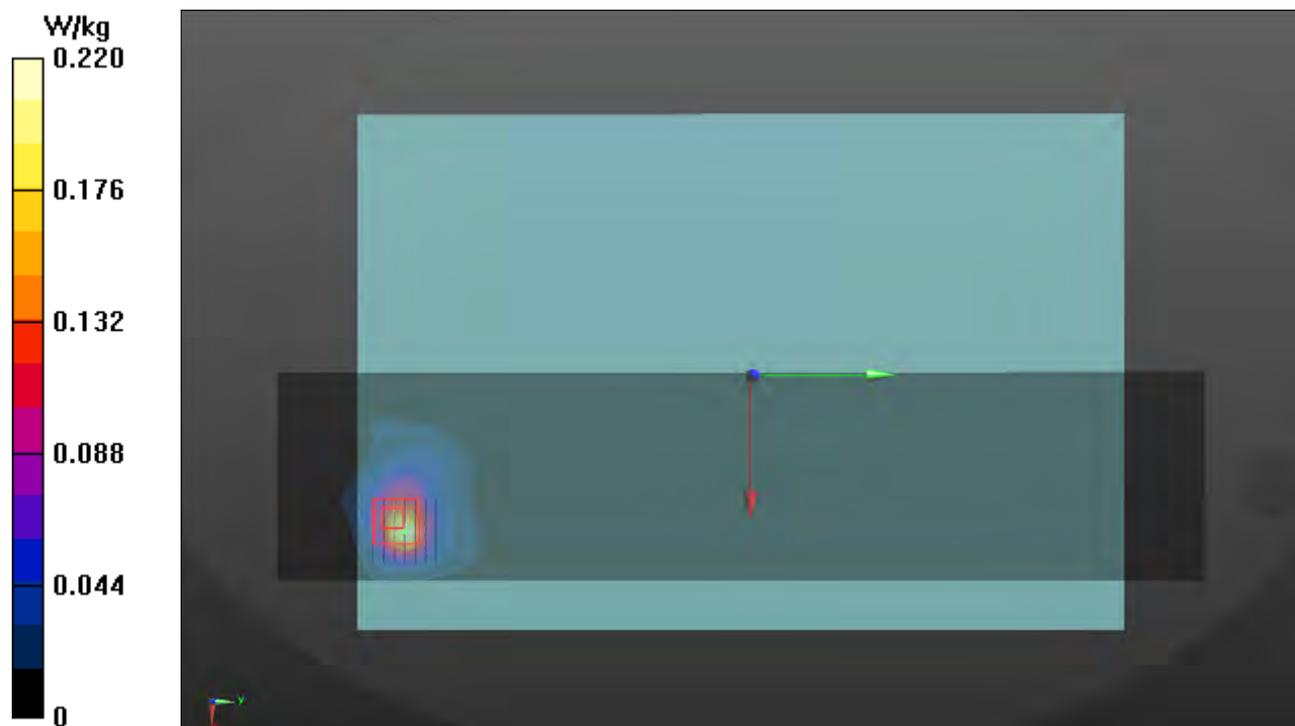
Peak SAR (extrapolated) = 0.447 W/kg

SAR(1 g) = 0.318 W/kg; SAR(10 g) = 0.070 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 6.3 mm

Ratio of SAR at M2 to SAR at M1 = 37.9%

Maximum value of SAR (measured) = 0.324 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/27

P20 LTE 48_QPSK20M_Rear Face_0mm_Ch55340_1RB_OS0_Ant 2_Power Reduction_w

DUT: BFLF-WTW-P22030374

Communication System: UID 10172 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 3560 MHz; Duty Cycle: 1:8.33

Medium: H33T42N1_0327 Medium parameters used: $f = 3560$ MHz; $\sigma = 2.974$ S/m; $\epsilon_r = 37.192$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3820; ConvF(6.66, 6.66, 6.66) @ 3560 MHz; Calibrated: 2021/07/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2022/02/23
- Phantom: ELI Phantom_1206; Type: QDOVA001BB;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (91x371x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.785 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2.5mm

Reference Value = 16.60 V/m; Power Drift = 0.01 dB

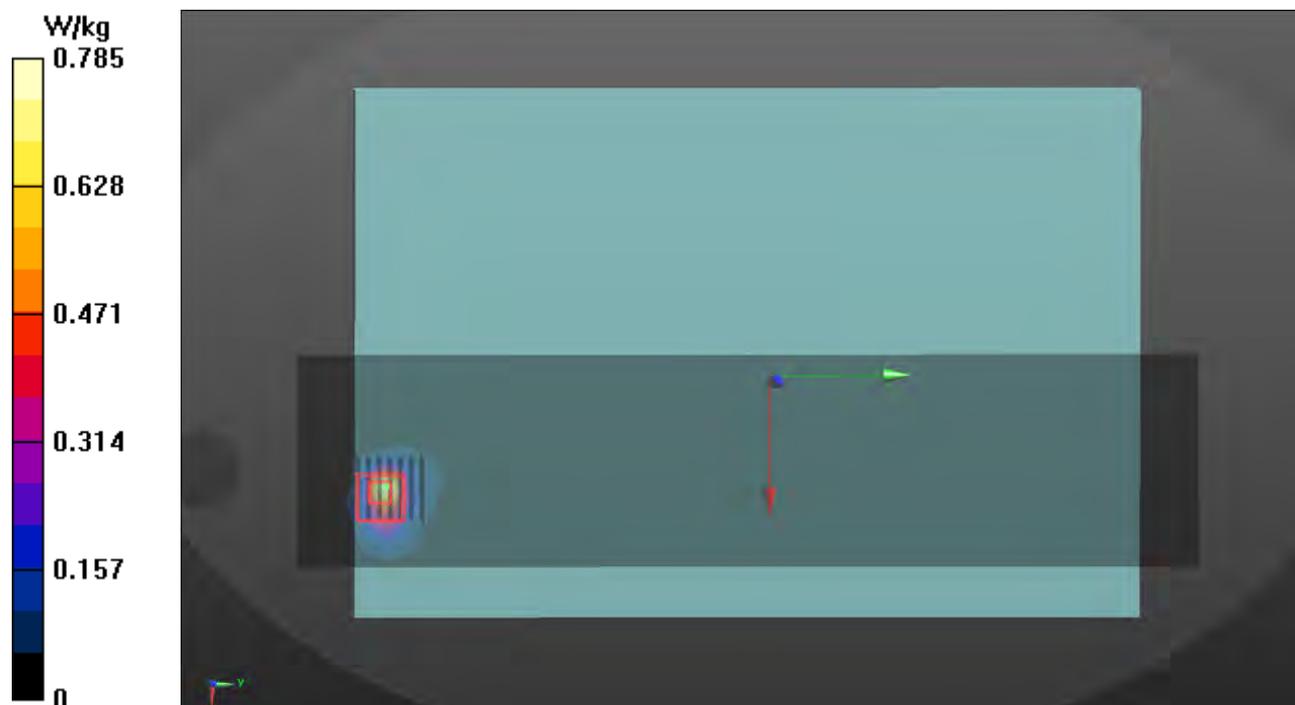
Peak SAR (extrapolated) = 1.57 W/kg

SAR(1 g) = 0.454 W/kg; SAR(10 g) = 0.138 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 5.4 mm

Ratio of SAR at M2 to SAR at M1 = 58.1%

Maximum value of SAR (measured) = 0.897 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/26

P21 LTE 66_QPSK20M_Rear Facer_0mm_Ch132572_1RB_OS0_Ant 0_Power Reduction_w

DUT: BFLF-WTW-P22030374

Communication System: UID 10169 - CAE, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 1770 MHz; Duty Cycle: 1:3.74

Medium: H16T20N1_0326 Medium parameters used: $f = 1770$ MHz; $\sigma = 1.378$ S/m; $\epsilon_r = 38.798$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(8.54, 8.54, 8.54) @ 1770 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (71x301x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

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

Reference Value = 29.02 V/m; Power Drift = -0.09 dB

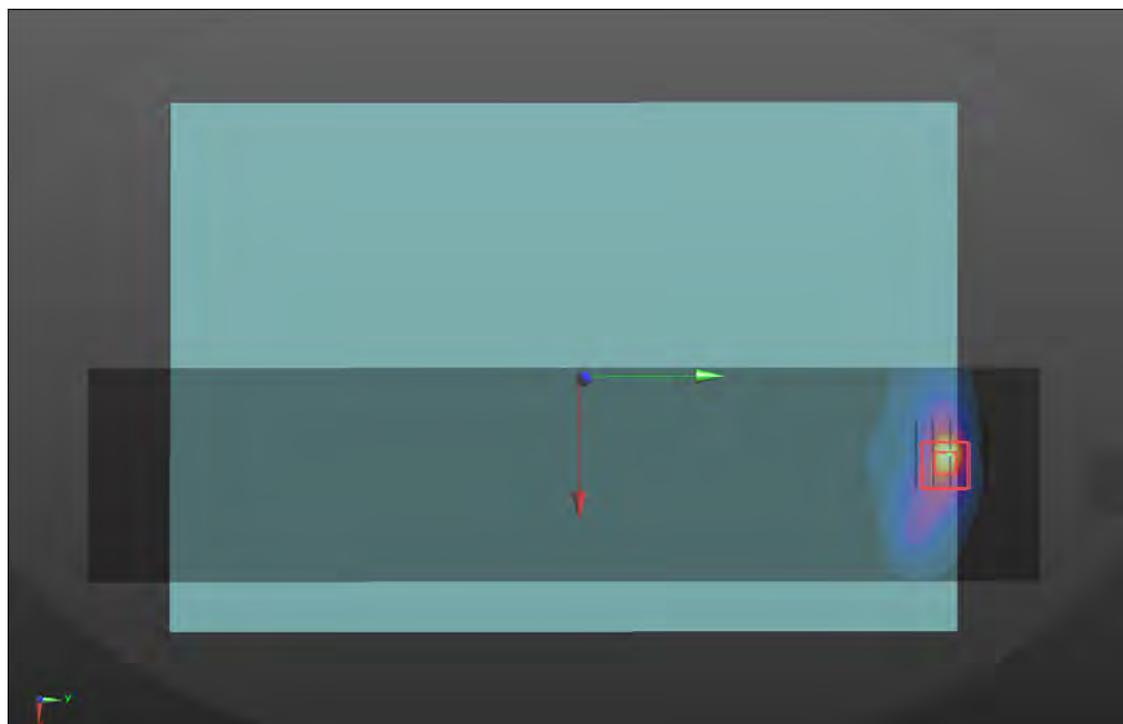
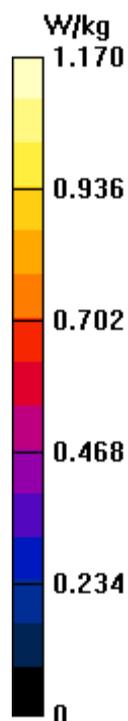
Peak SAR (extrapolated) = 1.60 W/kg

SAR(1 g) = 0.686 W/kg; SAR(10 g) = 0.331 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 = 45%

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



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/04/01

P22 LTE 71_QPSK20M_Bottom for Laptop_0mm_Ch133222_1RB_OS0_Ant 0_Power Reduction_w

DUT: BFLF-WTW-P22030374

Communication System: UID 10169 - CAE, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 673 MHz; Duty Cycle: 1:3.74

Medium: H06T09N1_0401 Medium parameters used: $f = 673$ MHz; $\sigma = 0.873$ S/m; $\epsilon_r = 44.115$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(10.38, 10.38, 10.38) @ 673 MHz; Calibrated: 2021/08/26

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

- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20

- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;

- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (101x301x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.472 W/kg

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

Reference Value = 23.68 V/m; Power Drift = -0.01 dB

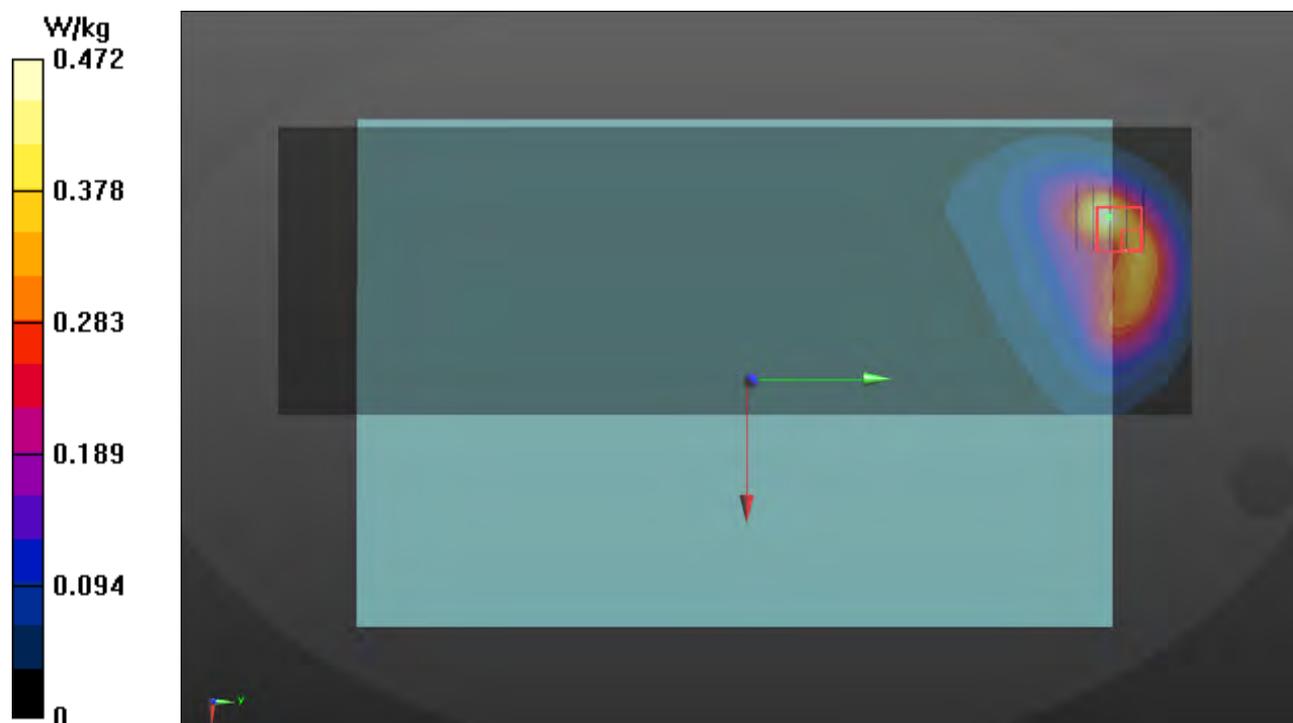
Peak SAR (extrapolated) = 0.544 W/kg

SAR(1 g) = 0.302 W/kg; SAR(10 g) = 0.179 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 20.8 mm

Ratio of SAR at M2 to SAR at M1 = 55.4%

Maximum value of SAR (measured) = 0.441 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/26

P23 5GNR-n2_DFT-S QPSK20M_Rear Face_0mm_Ch376000_1RB_OS1_Ant 0_Power Reduction_w

DUT: BFLF-WTW-P22030374

Communication System: UID 10931 - AAC, 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz); Frequency: 1880 MHz; Duty Cycle: 1:3.56

Medium: H16T20N1_0326 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.446$ S/m; $\epsilon_r = 38.571$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(8.17, 8.17, 8.17) @ 1880 MHz; Calibrated: 2021/08/26

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

- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20

- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;

- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (71x401x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.823 W/kg

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

Reference Value = 22.92 V/m; Power Drift = -0.02 dB

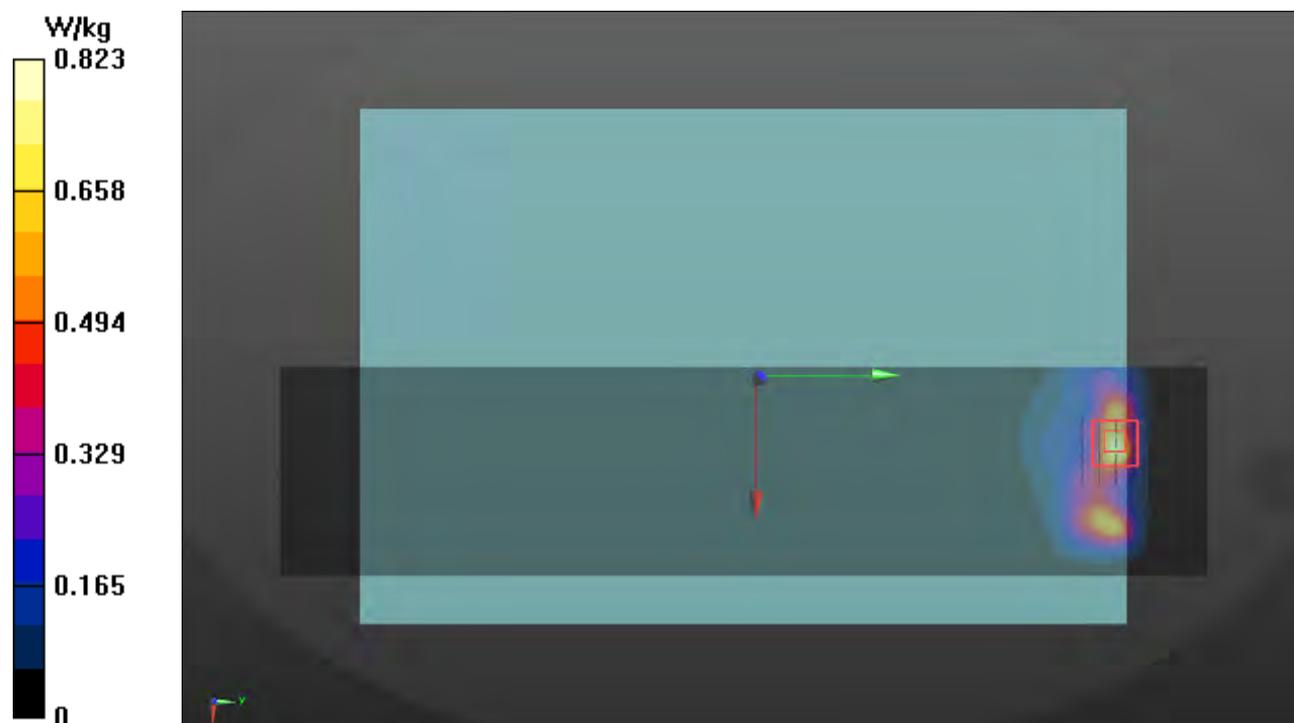
Peak SAR (extrapolated) = 1.32 W/kg

SAR(1 g) = 0.571 W/kg; SAR(10 g) = 0.266 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 8.4 mm

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

Maximum value of SAR (measured) = 1.00 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/26

P24 5GNR-n5_DFT-S QPSK20M_Rear Face_0mm_Ch167300_1RB_OS1_Ant 0_Power Reduction_w

DUT: BFLF-WTW-P22030374

Communication System: UID 10931 - AAC, 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz); Frequency: 836.5 MHz; Duty Cycle: 1:3.56

Medium: H07T10N1_0326 Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.932$ S/m; $\epsilon_r = 40.562$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(9.92, 9.92, 9.92) @ 836.5 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (71x301x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.03 W/kg

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

Reference Value = 34.72 V/m; Power Drift = -0.07 dB

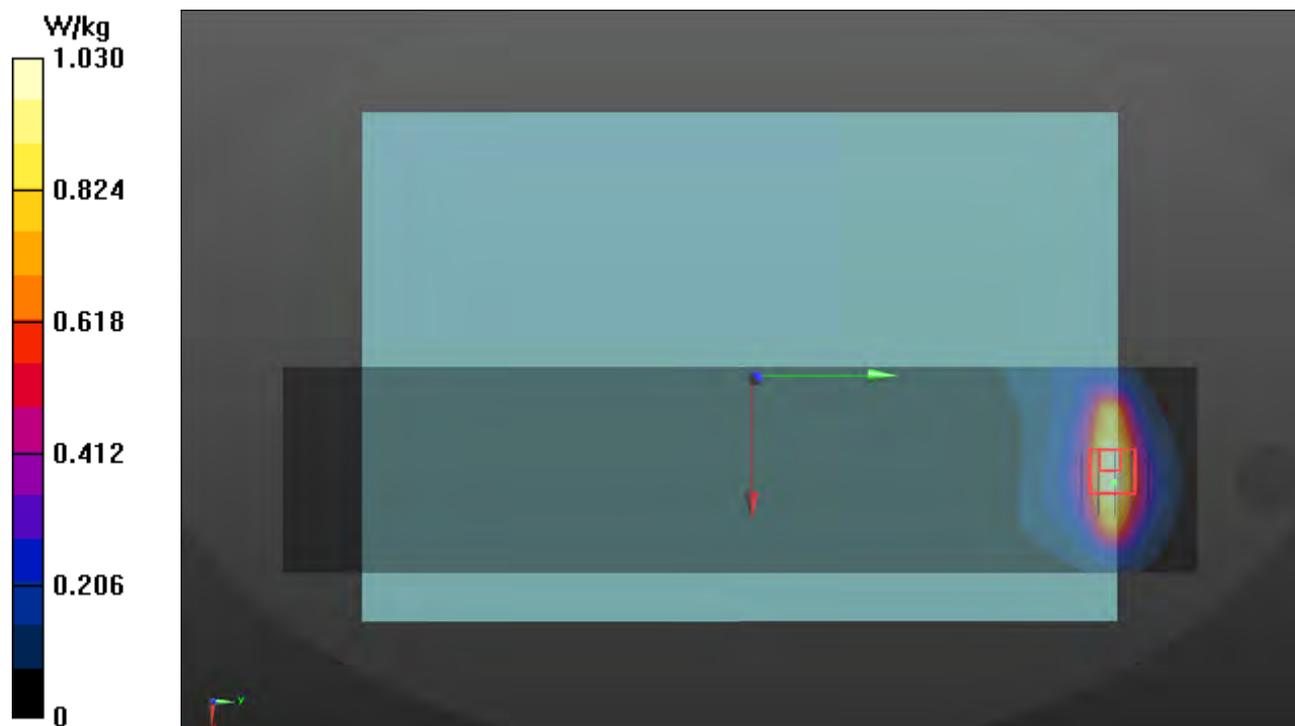
Peak SAR (extrapolated) = 1.49 W/kg

SAR(1 g) = 0.624 W/kg; SAR(10 g) = 0.356 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 = 41.1%

Maximum value of SAR (measured) = 1.01 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/28

P25 5GNR-n7_DFT-S QPSK20M_Rear Face_0mm_Ch507000_1RB_OS1_Ant 0_Power Reduction_w

DUT: BFLF-WTW-P22030374

Communication System: UID 10931 - AAB, 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz); Frequency: 2535 MHz; Duty Cycle: 1:3.56

Medium: H19T27N1_0328 Medium parameters used (interpolated): $f = 2535$ MHz; $\sigma = 1.954$ S/m; $\epsilon_r = 37.831$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(7.3, 7.3, 7.3) @ 2535 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (91x371x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
 Maximum value of SAR (interpolated) = 0.362 W/kg

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

Reference Value = 11.92 V/m; Power Drift = -0.02 dB

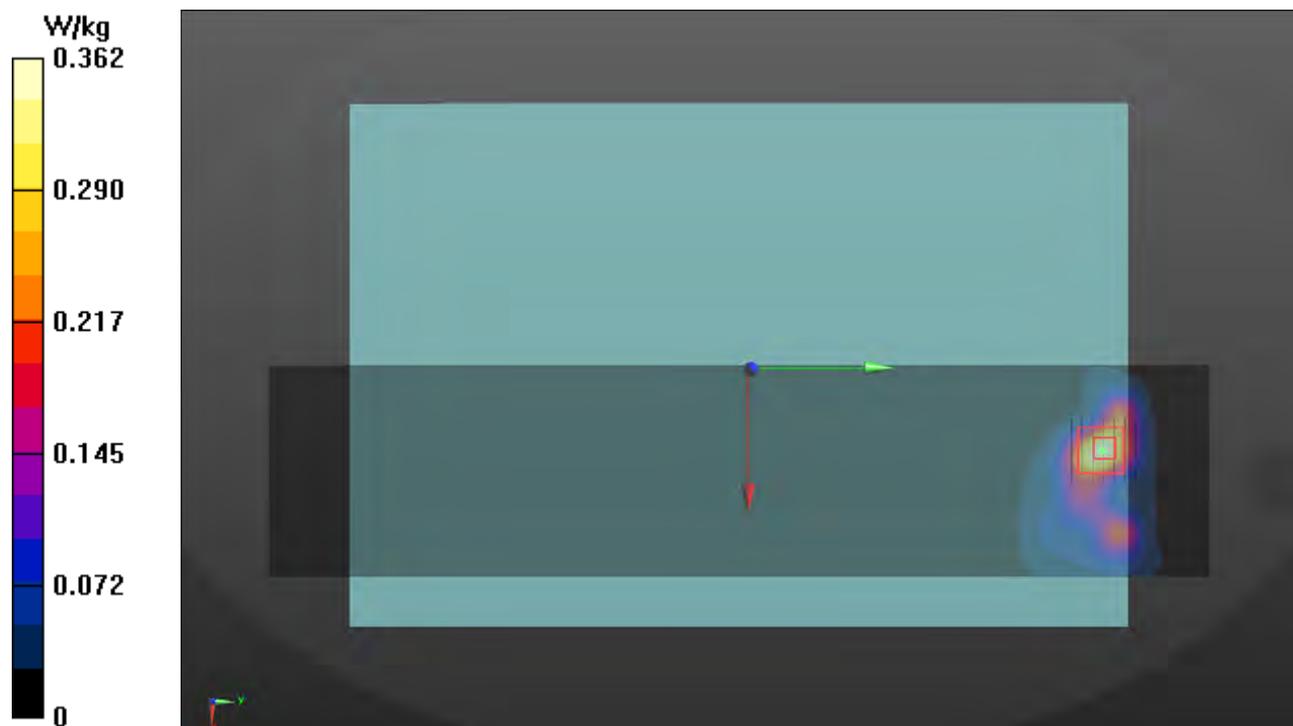
Peak SAR (extrapolated) = 1.88 W/kg

SAR(1 g) = 0.639 W/kg; SAR(10 g) = 0.237 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 = 39.1%

Maximum value of SAR (measured) = 1.30 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/30

P26 5GNR-n25_DFT-S QPSK20M_Bottom for Laptop_0mm_Ch372000_1RB_OS1_Ant 0_Power Reduction_w

DUT: BFLF-WTW-P22030374

Communication System: UID 10931 - AAC, 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz); Frequency: 1860 MHz; Duty Cycle: 1:3.56

Medium: H16T20N1_0330 Medium parameters used: $f = 1860$ MHz; $\sigma = 1.438$ S/m; $\epsilon_r = 39.388$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(8.17, 8.17, 8.17) @ 1860 MHz; Calibrated: 2021/08/26

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

- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20

- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;

- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (101x301x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.06 W/kg

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

Reference Value = 27.72 V/m; Power Drift = -0.03 dB

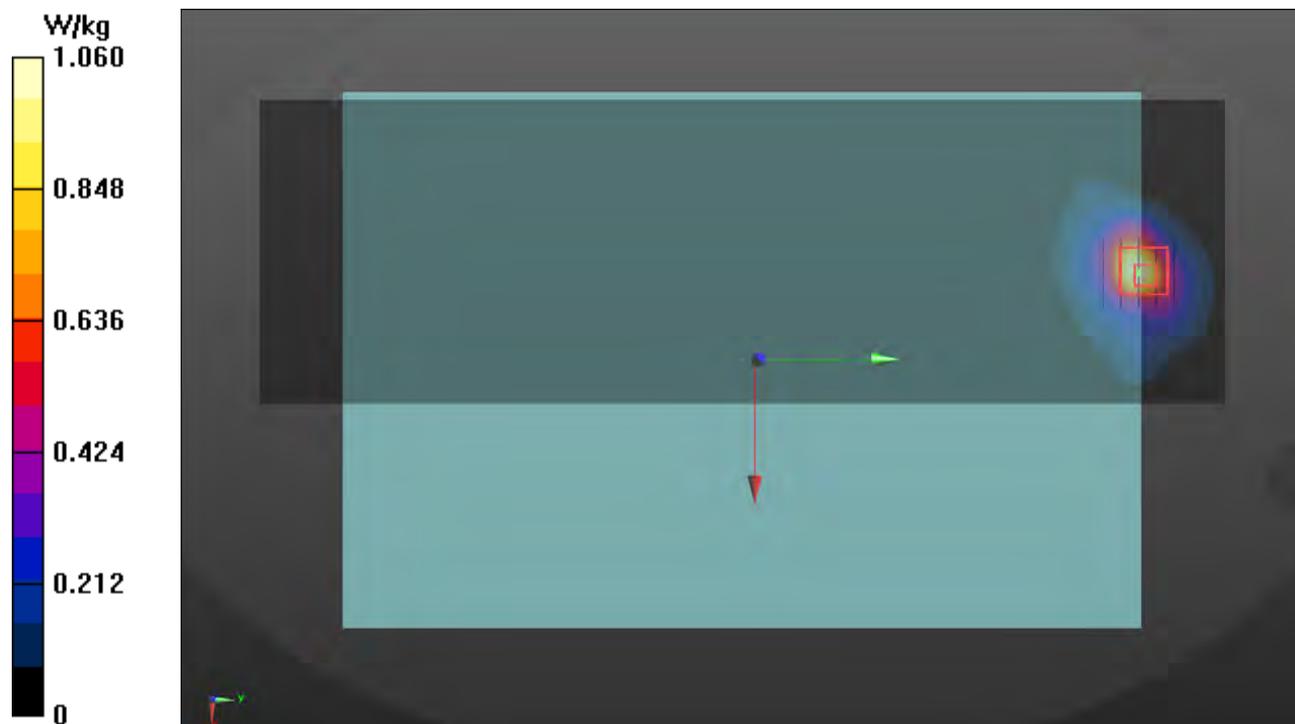
Peak SAR (extrapolated) = 1.34 W/kg

SAR(1 g) = 0.682 W/kg; SAR(10 g) = 0.360 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 9.3 mm

Ratio of SAR at M2 to SAR at M1 = 51.6%

Maximum value of SAR (measured) = 1.05 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/29

P27 5GNR-n30_DFT-S QPSK10M_Rear Face_0mm_Ch462000_1RB_OS1_Ant 0_Power Reduction_w

DUT: BFLF-WTW-P22030374

Communication System: UID 10929 - AAC, 5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz); Frequency: 2310 MHz; Duty Cycle: 1:3.56

Medium: H19T27N1_0329 Medium parameters used: $f = 2310$ MHz; $\sigma = 1.726$ S/m; $\epsilon_r = 38.428$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(7.68, 7.68, 7.68) @ 2310 MHz; Calibrated: 2021/08/26

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

- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20

- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;

- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (91x371x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.592 W/kg

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

Reference Value = 18.66 V/m; Power Drift = -0.09 dB

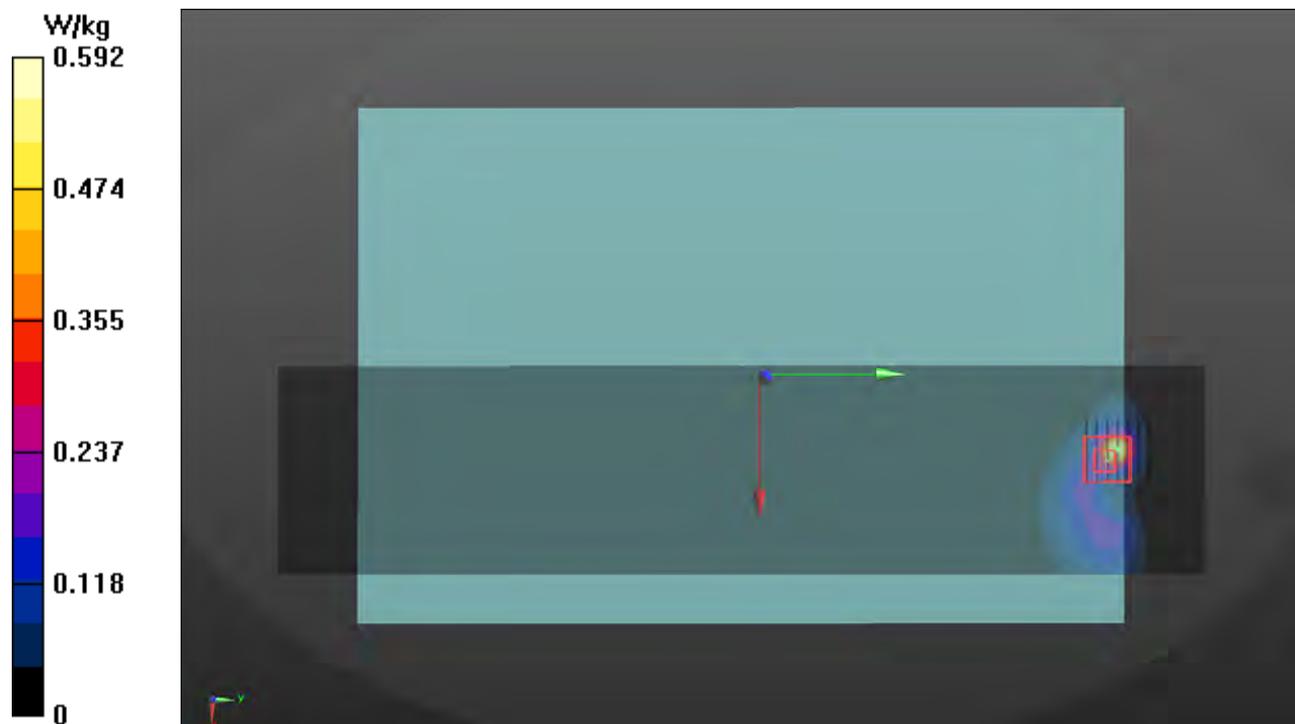
Peak SAR (extrapolated) = 1.77 W/kg

SAR(1 g) = 0.614 W/kg; SAR(10 g) = 0.222 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 5.4 mm

Ratio of SAR at M2 to SAR at M1 = 37.7%

Maximum value of SAR (measured) = 1.32 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/30

P28 5GNR-n38_DFT-S QPSK20M_Rear Face_0mm_Ch519000_1RB_OS1_Ant 0_Power Reduction_w

DUT: BFLF-WTW-P22030374

Communication System: UID 10900 - AAB, 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz); Frequency: 2595 MHz; Duty Cycle: 1:3.7

Medium: H19T27N0_0330 Medium parameters used (interpolated): $f = 2595$ MHz; $\sigma = 2.043$ S/m; $\epsilon_r = 38.005$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(7.3, 7.3, 7.3) @ 2595 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (91x371x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 2.20 W/kg

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

Reference Value = 32.35 V/m; Power Drift = -0.12 dB

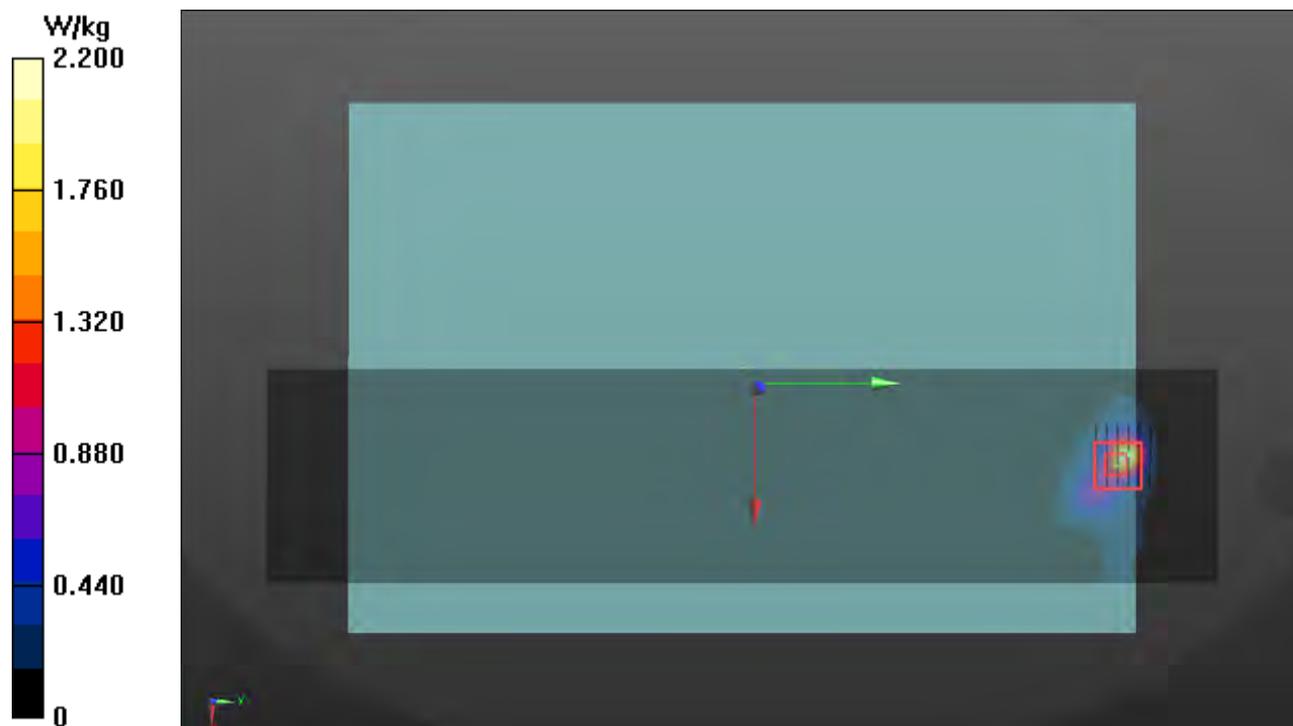
Peak SAR (extrapolated) = 1.74 W/kg

SAR(1 g) = 0.575 W/kg; SAR(10 g) = 0.206 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 = 36.6%

Maximum value of SAR (measured) = 1.26 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/30

P29 5GNR-n40_DFT-S QPSK80M_Rear Face_0mm_Ch472000_1RB_OS1_Ant 0_Power Reduction_w

DUT: BFLF-WTW-P22030374

Communication System: UID 10906 - AAB, 5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz); Frequency: 2360 MHz; Duty Cycle: 1:3.7

Medium: H19T27N0_0330 Medium parameters used: $f = 2360$ MHz; $\sigma = 1.786$ S/m; $\epsilon_r = 38.851$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(7.68, 7.68, 7.68) @ 2360 MHz; Calibrated: 2021/08/26

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

- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20

- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;

- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (91x371x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

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

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

Reference Value = 17.00 V/m; Power Drift = 0.01 dB

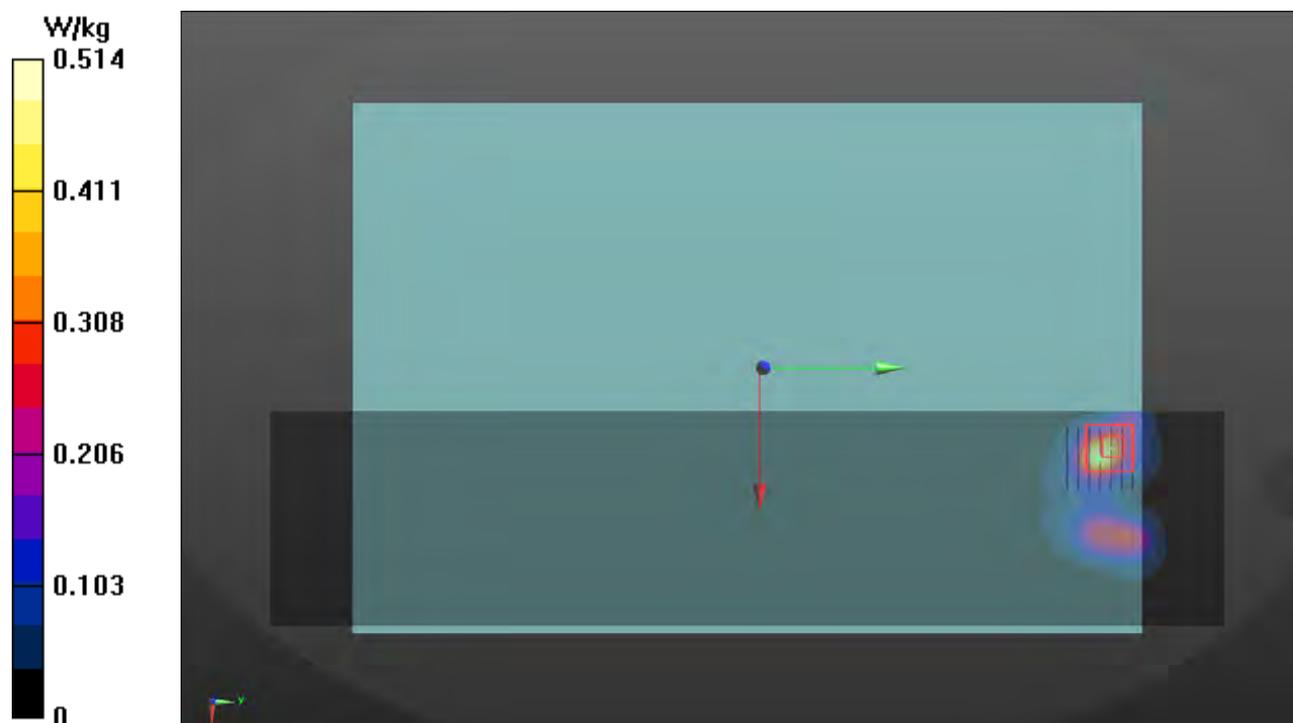
Peak SAR (extrapolated) = 1.89 W/kg

SAR(1 g) = 0.659 W/kg; SAR(10 g) = 0.238 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 5.4 mm

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

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



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/04/02

P30 5GNR-n41_DFT-S QPSK100M_Rear Face_0mm_Ch509202_1RB_OS1_Ant 2_Power Reduction_w

DUT: BFLF-WTW-P22030374

Communication System: UID 10866 - AAD, 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz); Frequency: 2546.01 MHz; Duty Cycle: 1:3.7

Medium: H19T27N0_0402 Medium parameters used (interpolated): $f = 2546.01$ MHz; $\sigma = 1.992$ S/m; $\epsilon_r = 38.225$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(7.3, 7.3, 7.3) @ 2546.01 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (101x371x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.573 W/kg

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

Reference Value = 16.74 V/m; Power Drift = 0.02 dB

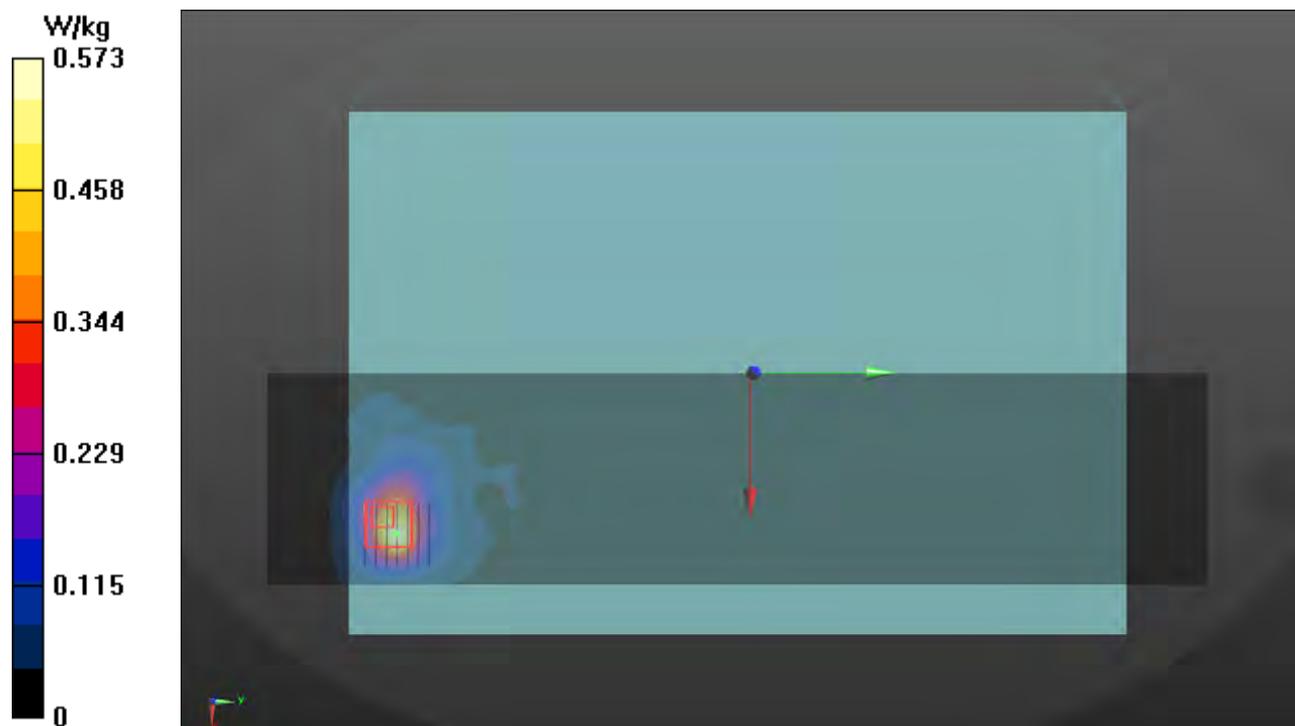
Peak SAR (extrapolated) = 1.89 W/kg

SAR(1 g) = 0.687 W/kg; SAR(10 g) = 0.279 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 = 38.4%

Maximum value of SAR (measured) = 1.35 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/22

P32 5GNR-n66_DFT-S QPSK40M_Rear Face_0mm_Ch349000_1RB_OS1_Ant 0_Power Reduction_w

DUT: BFLF-WTW-P22030374

Communication System: UID 10934 - AAC, 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz); Frequency: 1745 MHz; Duty Cycle: 1:3.56

Medium: H16T20N2_0322 Medium parameters used: $f = 1745$ MHz; $\sigma = 1.372$ S/m; $\epsilon_r = 41.491$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(8.54, 8.54, 8.54) @ 1745 MHz; Calibrated: 2021/08/26

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

- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20

- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;

- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (81x301x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.696 W/kg

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

Reference Value = 19.31 V/m; Power Drift = -0.07 dB

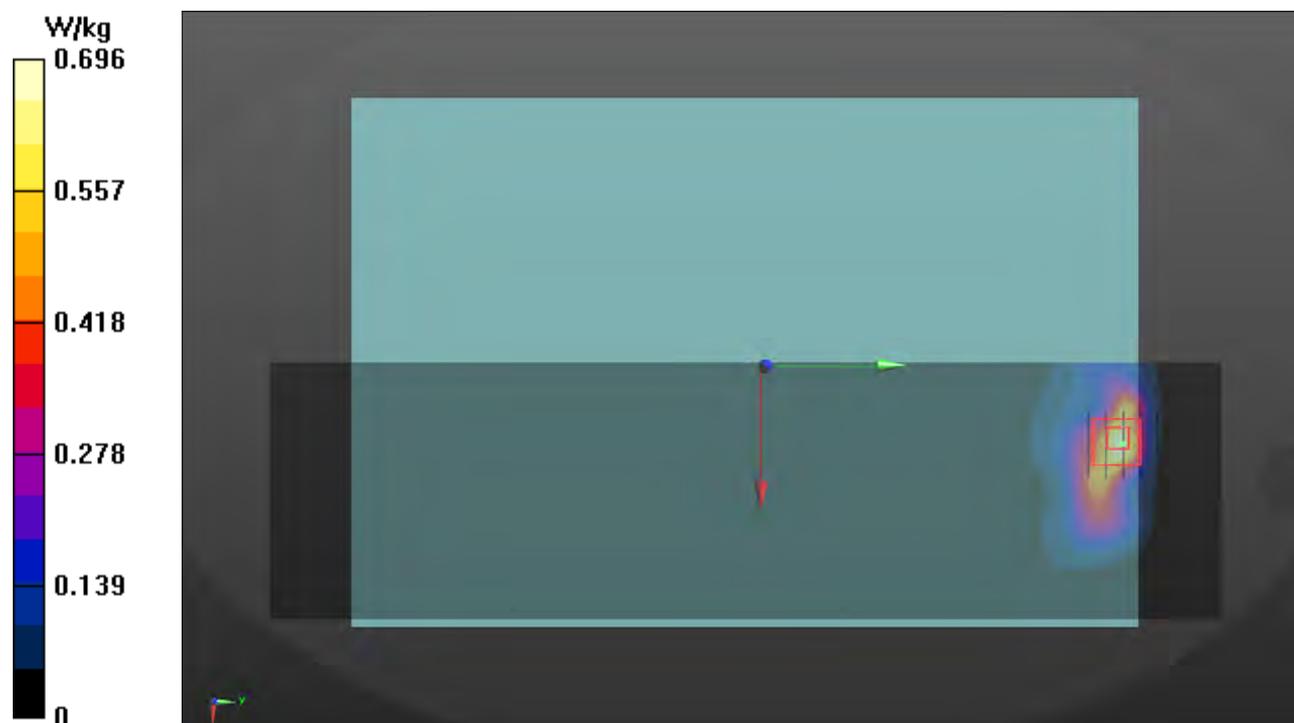
Peak SAR (extrapolated) = 1.38 W/kg

SAR(1 g) = 0.624 W/kg; SAR(10 g) = 0.294 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 = 44.6%

Maximum value of SAR (measured) = 1.03 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/04/01

P33 5GNR-n71_DFT-S QPSK20M_Rear Face_0mm_Ch136100_1RB_OS1_Ant 0_Power Reduction_w

DUT: BFLF-WTW-P22030374

Communication System: UID 10931 - AAC, 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz); Frequency: 680.5 MHz; Duty Cycle: 1:3.56

Medium: H06T09N1_0401 Medium parameters used (interpolated): $f = 680.5$ MHz; $\sigma = 0.875$ S/m; $\epsilon_r = 44.051$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(10.38, 10.38, 10.38) @ 680.5 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (81x301x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.752 W/kg

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

Reference Value = 29.14 V/m; Power Drift = -0.09 dB

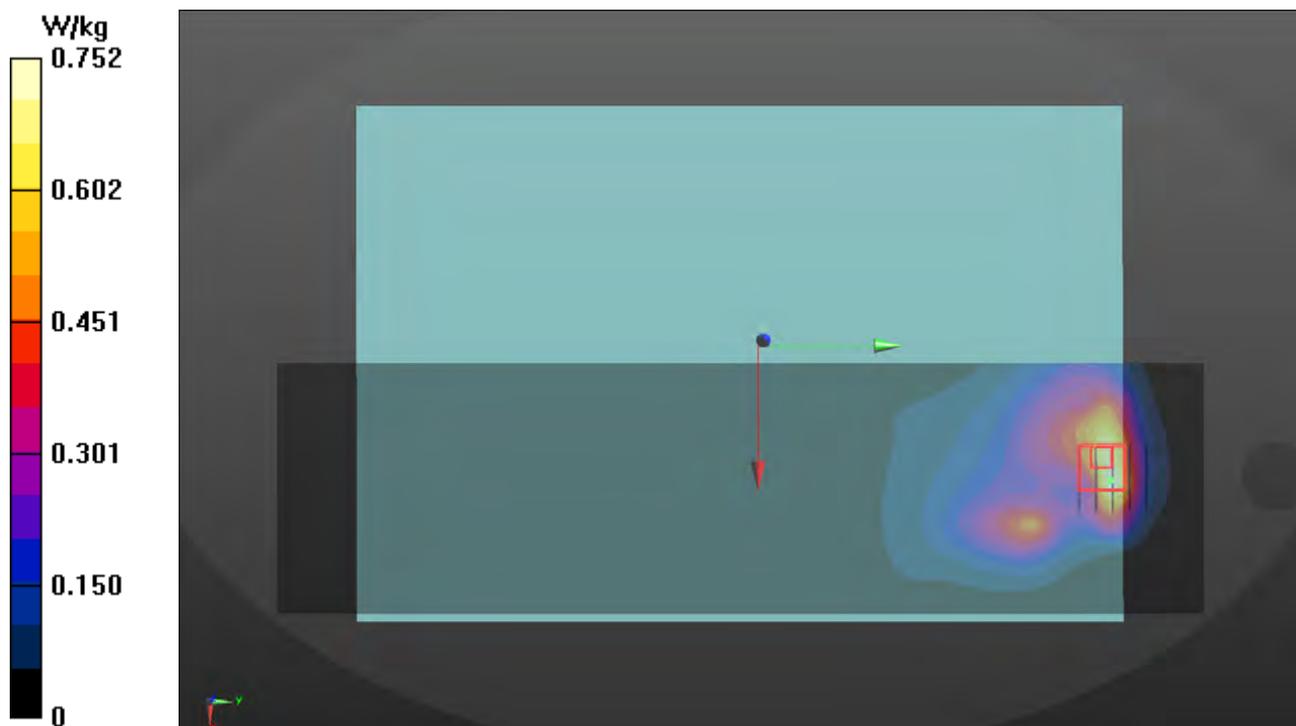
Peak SAR (extrapolated) = 1.36 W/kg

SAR(1 g) = 0.594 W/kg; SAR(10 g) = 0.296 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 50.4%

Maximum value of SAR (measured) = 0.928 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/04/02

P34 5GNR-n77_DFT-S QPSK100M_Rear Face_0mm_Ch659000_1RB_OS1_Ant 2_Power Reduction_w

DUT: BFLF-WTW-P22030374

Communication System: UID 10866 - AAD, 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz); Frequency: 3885 MHz; Duty Cycle: 1:3.7

Medium: H33T42N1_0402 Medium parameters used (interpolated): $f = 3885$ MHz; $\sigma = 3.2$ S/m; $\epsilon_r = 36.37$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(6.6, 6.6, 6.6) @ 3885 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (91x371x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.393 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2.5mm

Reference Value = 10.64 V/m; Power Drift = 0.01 dB

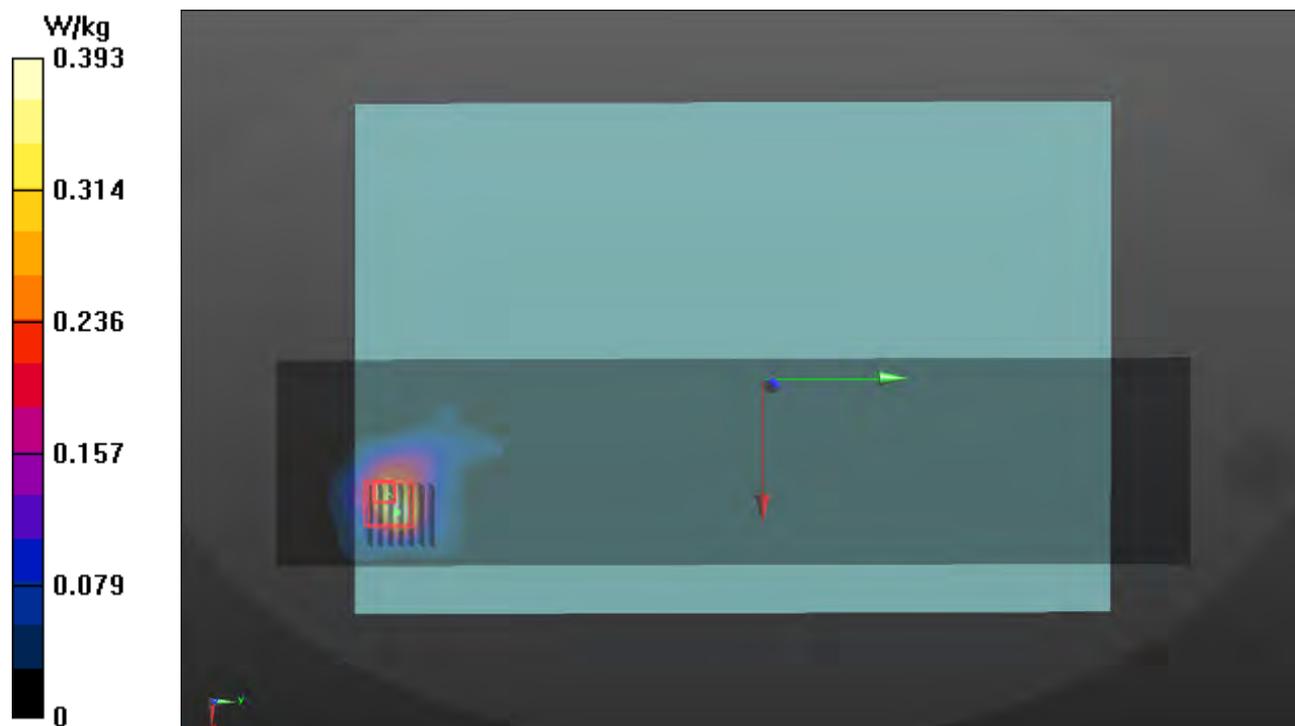
Peak SAR (extrapolated) = 2.35 W/kg

SAR(1 g) = 0.662 W/kg; SAR(10 g) = 0.177 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 5.4 mm

Ratio of SAR at M2 to SAR at M1 = 54.8%

Maximum value of SAR (measured) = 1.58 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/04/02

P35 5GNR-n78_DFT-S QPSK100M_Bottom for Laptop_0mm_Ch650000_1RB_OS1_Ant 2_Power Reduction_w

DUT: BFLF-WTW-P22030374

Communication System: UID 10866 - AAD, 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz); Frequency: 3750 MHz; Duty Cycle: 1:3.7

Medium: H33T42N1_0402 Medium parameters used: $f = 3750$ MHz; $\sigma = 3.141$ S/m; $\epsilon_r = 36.36$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(6.7, 6.7, 6.7) @ 3750 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (91x371x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.29 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2.5mm

Reference Value = 19.29 V/m; Power Drift = -0.05 dB

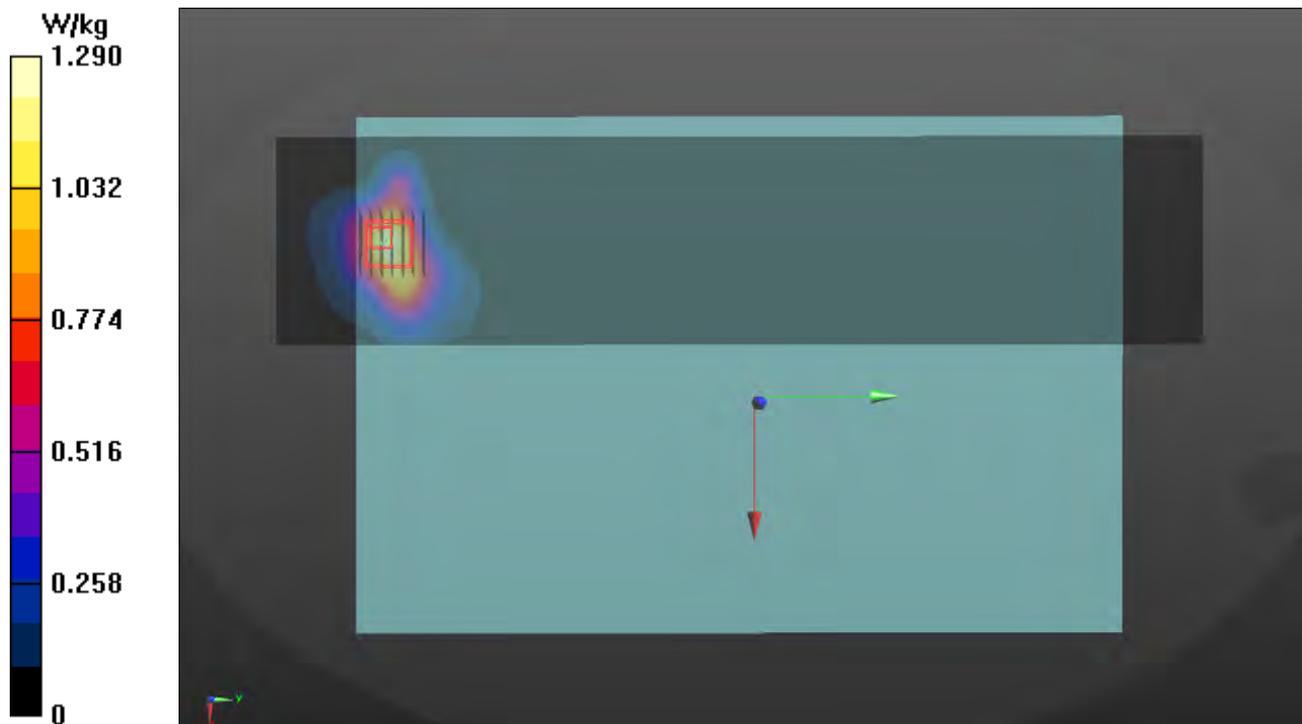
Peak SAR (extrapolated) = 1.78 W/kg

SAR(1 g) = 0.674 W/kg; SAR(10 g) = 0.316 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 10 mm

Ratio of SAR at M2 to SAR at M1 = 57.5%

Maximum value of SAR (measured) = 1.25 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/23

P36 WLAN2.4G_802.11n HT20_Top Side_0mm_Ch6_Ant 0+1

DUT: BFLF-WTW-P22030374

Communication System: UID 10591 - AAC, IEEE 802.11n (HT Mixed, 20MHz, MCS0); Frequency: 2437 MHz; Duty Cycle: 1:1.01

Medium: H19T27N1_0323 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.743$ S/m; $\epsilon_r = 38.591$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(7.49, 7.49, 7.49) @ 2437 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (71x341x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.34 W/kg

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

Reference Value = 1.295 V/m; Power Drift = -0.11 dB

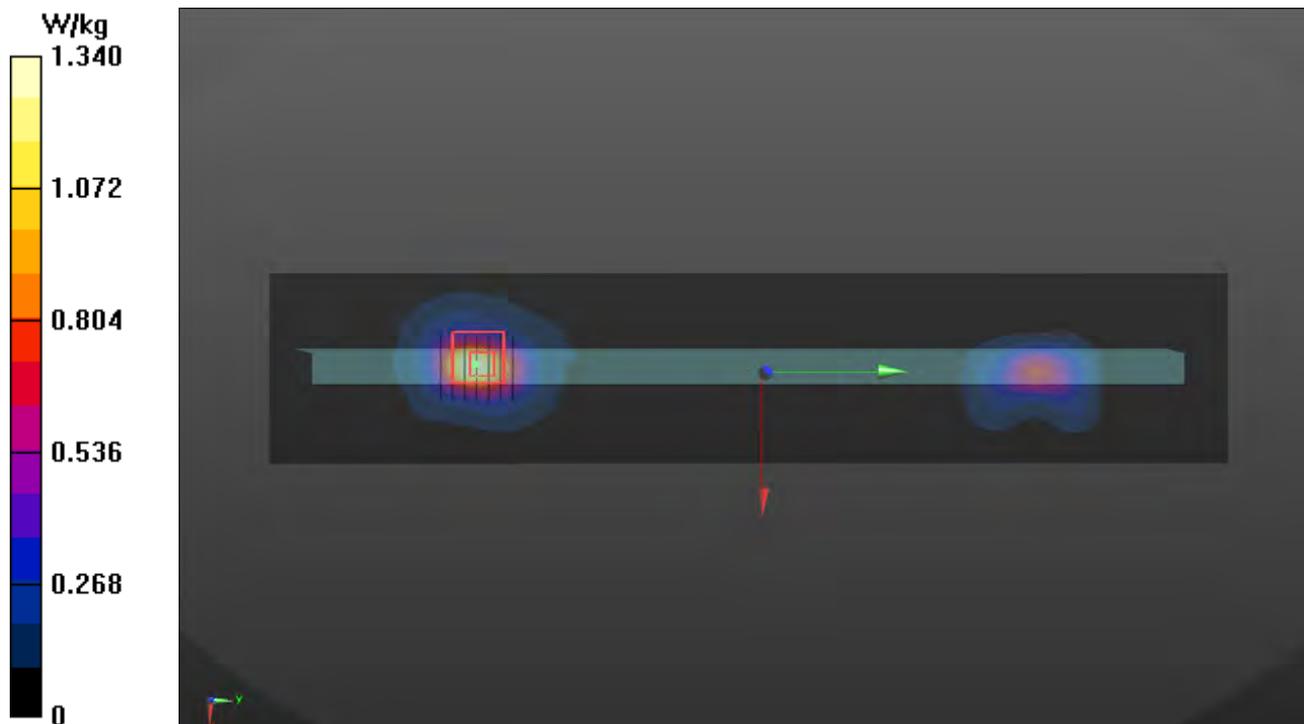
Peak SAR (extrapolated) = 2.71 W/kg

SAR(1 g) = 0.785 W/kg; SAR(10 g) = 0.346 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 5.4 mm

Ratio of SAR at M2 to SAR at M1 = 41.4%

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



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/21

P37 WLAN5.3G_802.11n HT40_Top Side_0mm_Ch54_Ant 0+1

DUT: BFLF-WTW-P22030374

Communication System: UID 10599 - AAC, IEEE 802.11n (HT Mixed, 40MHz, MCS0); Frequency: 5270 MHz; Duty Cycle: 1:1.01

Medium: H34T60N1_0321 Medium parameters used: $f = 5270$ MHz; $\sigma = 4.706$ S/m; $\epsilon_r = 35.937$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(5.1, 5.1, 5.1) @ 5270 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (81x401x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.22 W/kg

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

Reference Value = 15.06 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 3.29 W/kg

SAR(1 g) = 0.749 W/kg; SAR(10 g) = 0.241 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 = 63.9%

Maximum value of SAR (measured) = 1.91 W/kg

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

Reference Value = 15.06 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 2.31 W/kg

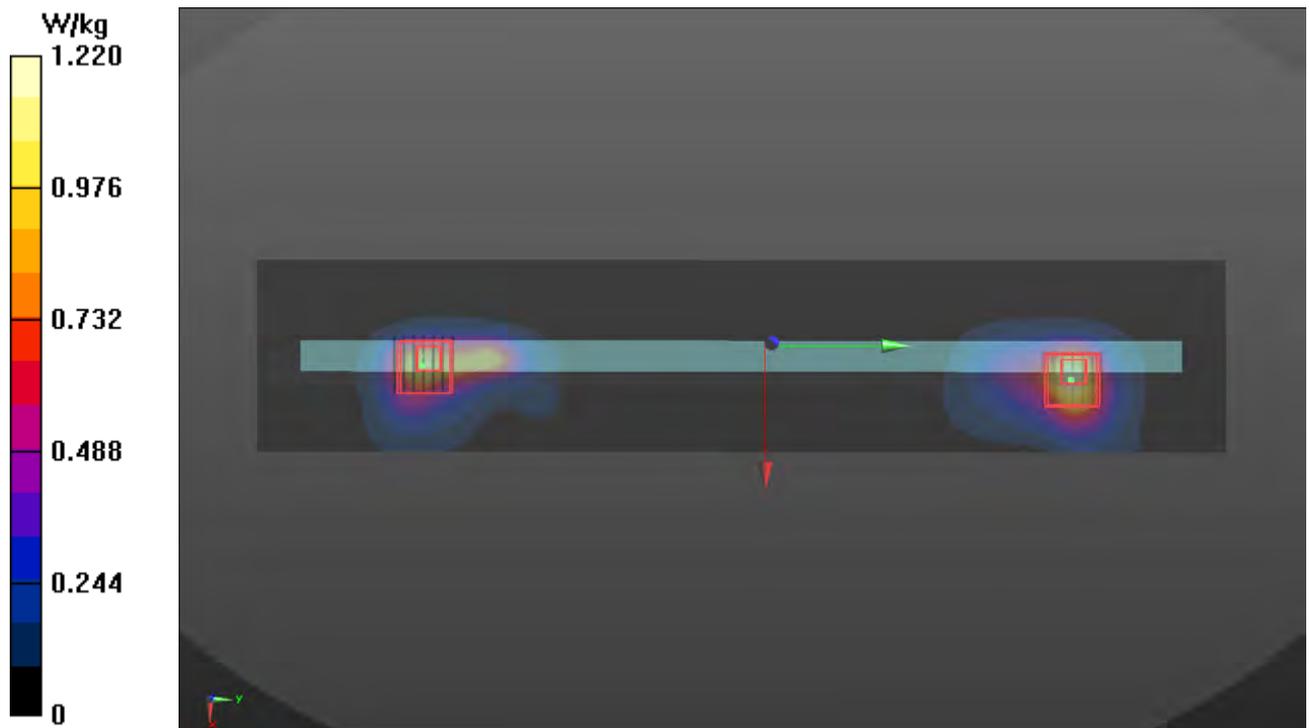
SAR(1 g) = 0.539 W/kg; SAR(10 g) = 0.186 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 64.5%

Maximum value of SAR (measured) = 1.25 W/kg

Plots of Measurement



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/21

P38 WLAN5.6G_802.11ac VHT80_Top Side_0mm_Ch138_Ant 1

DUT: BFLF-WTW-P22030374

Communication System: UID 10544 - AAC, IEEE 802.11ac WiFi (80MHz, MCS0); Frequency: 5690 MHz; Duty Cycle: 1:1.01

Medium: H34T60N1_0321 Medium parameters used: $f = 5690$ MHz; $\sigma = 5.164$ S/m; $\epsilon_r = 35.498$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(4.8, 4.8, 4.8) @ 5690 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (41x201x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 1.67 W/kg

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

Reference Value = 0.8020 V/m; Power Drift = 0.08 dB

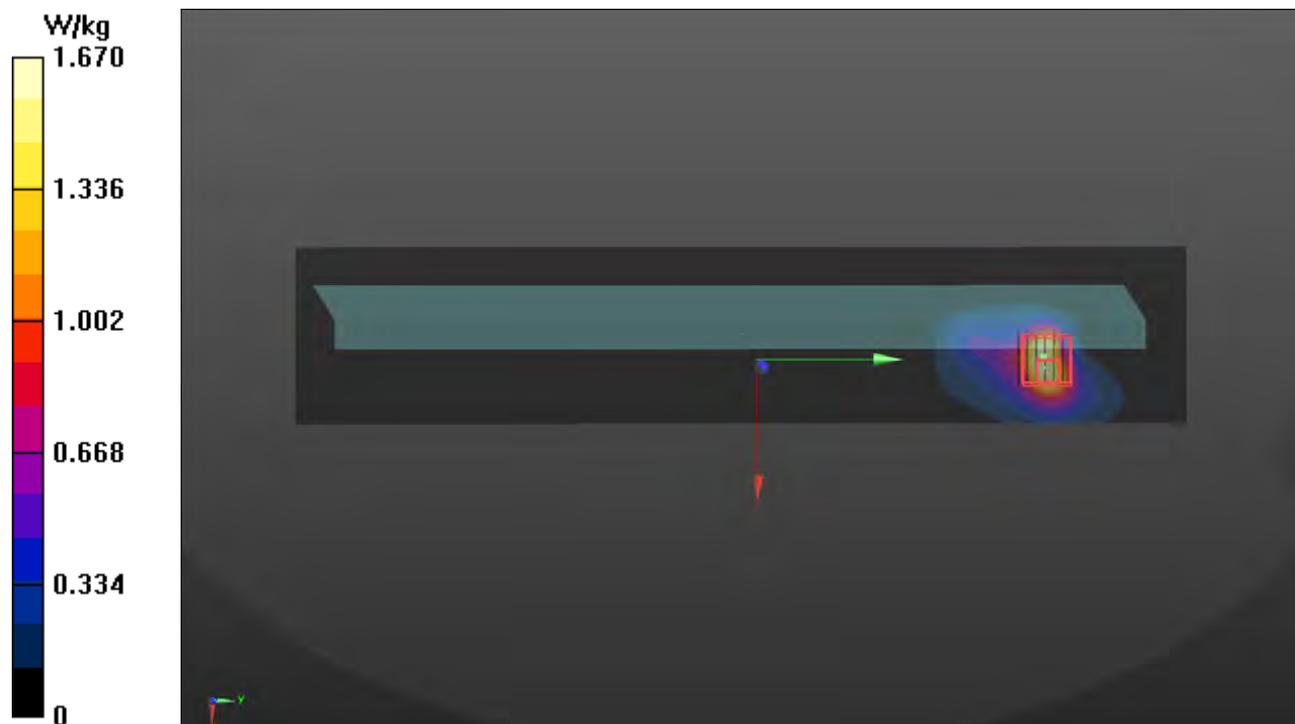
Peak SAR (extrapolated) = 3.81 W/kg

SAR(1 g) = 0.775 W/kg; SAR(10 g) = 0.245 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 5.4 mm

Ratio of SAR at M2 to SAR at M1 = 60.3%

Maximum value of SAR (measured) = 2.10 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/23

P39 WLAN5.8G_802.11ac VHT80_Top Side_0mm_Ch155_Ant 1

DUT: BFLF-WTW-P22030374

Communication System: UID 10544 - AAC, IEEE 802.11ac WiFi (80MHz, MCS0); Frequency: 5775 MHz; Duty Cycle: 1:1.01

Medium: H34T60N1_0323 Medium parameters used: $f = 5775$ MHz; $\sigma = 5.227$ S/m; $\epsilon_r = 35.434$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(4.8, 4.8, 4.8) @ 5775 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (81x401x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 2.16 W/kg

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

Reference Value = 0.8530 V/m; Power Drift = -0.09 dB

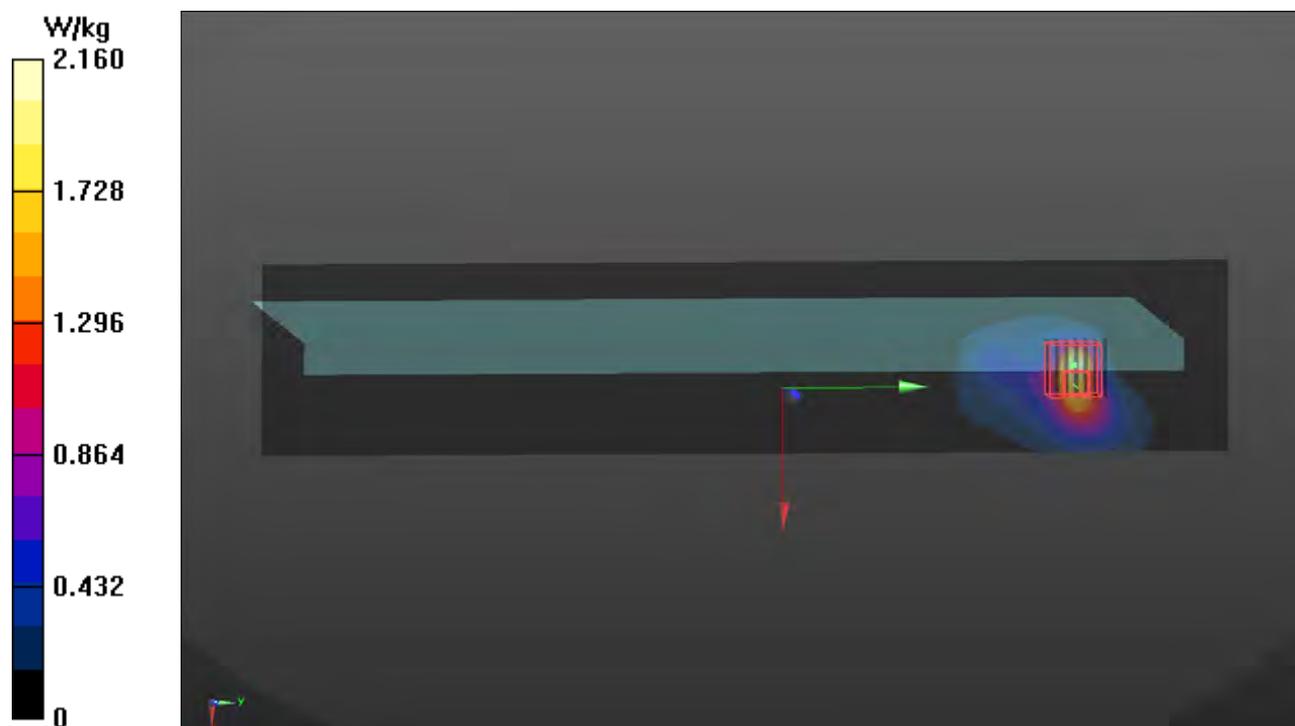
Peak SAR (extrapolated) = 4.29 W/kg

SAR(1 g) = 0.777 W/kg; SAR(10 g) = 0.287 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 4.7 mm

Ratio of SAR at M2 to SAR at M1 = 60%

Maximum value of SAR (measured) = 2.26 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/03/23

P40 BT_BDR_Top Side_0mm_Ch78_Ant 1

DUT: BFLF-WTW-P22030374

Communication System: UID 10032 - CAA, IEEE 802.15.1 Bluetooth (GFSK, DH5); Frequency: 2480 MHz; Duty Cycle: 1:1.3

Medium: H19T27N1_0323 Medium parameters used: $f = 2480$ MHz; $\sigma = 1.792$ S/m; $\epsilon_r = 38.456$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(7.49, 7.49, 7.49) @ 2480 MHz; Calibrated: 2021/08/26

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

- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20

- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;

- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (71x341x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.143 W/kg

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

Reference Value = 0.7230 V/m; Power Drift = -0.09 dB

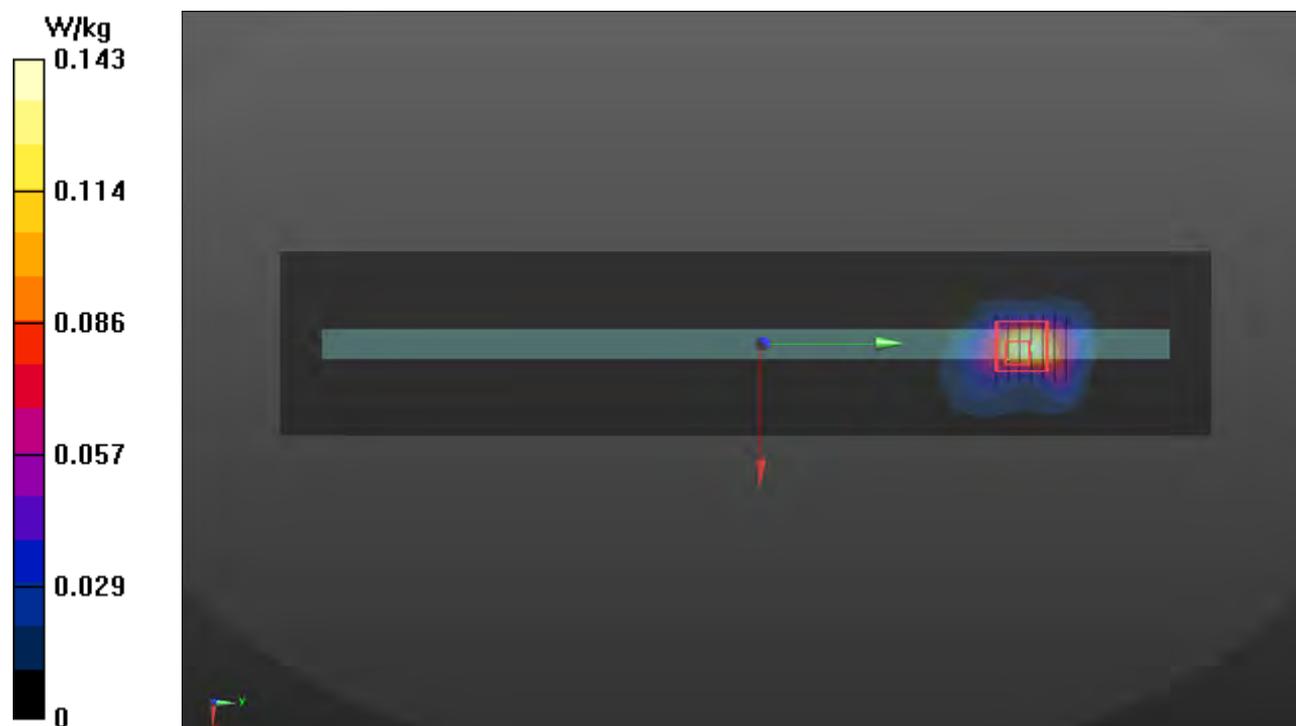
Peak SAR (extrapolated) = 0.368 W/kg

SAR(1 g) = 0.099 W/kg; SAR(10 g) = 0.040 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 43.7%

Maximum value of SAR (measured) = 0.225 W/kg



Plots of Measurement

Measurement Report for Device, P41 SAR-UNII-5_802.11ax HE160_Top Side_0mm_Ch15_Ant 0 Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
BFLF-WTW-P22030374	364.0 x 274.0 x 13.0		Tablet

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Side, 0.00	U-NII-5	WLAN, 10755-AAC	6025.0, 15	5.6	5.57	34.5

Hardware Setup

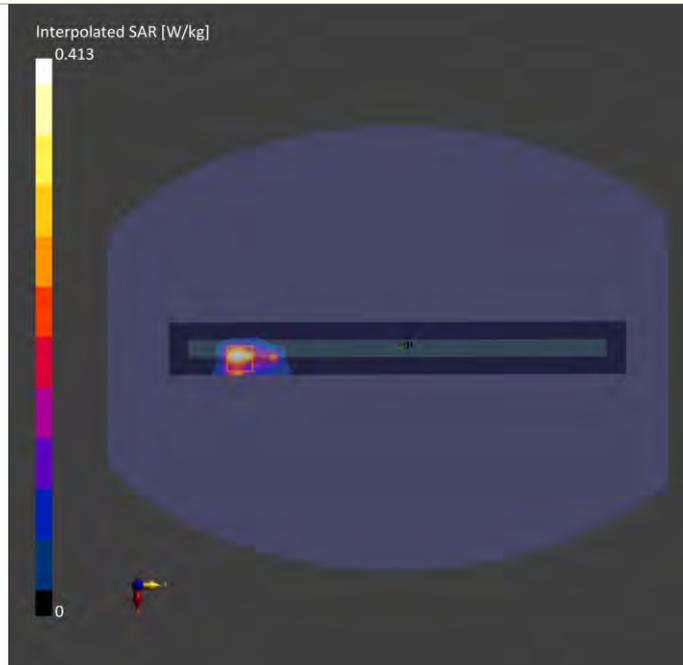
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2105	H50T72N1 , 2022-Apr-07	EX3DV4 - SN7554, 2021-08-26	DAE4 Sn1589, 2021-08-20

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	45.0 x 390.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	7.5 x 7.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-04-07	2022-04-07
psSAR1g [W/kg]	0.300	0.321
psSAR10g [W/kg]	0.101	0.109
psPDab (1.0cm2, sq) [W/m2]		3.21
psPDab (4.0cm2, sq) [W/m2]		2.43
Power Drift [dB]	-0.08	0.03
M2/M1 [%]		61.4
Dist 3dB Peak [mm]		4.3



Plots of Measurement

Measurement Report

P41 Power Density-UNII-5_802.11ax HE160_Top Side_0mm_Ch15_Ant 0

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
BFLF-WTW-P22030374	364.0 x 274.0 x 13.0		Tablet

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G Air	Top Side, 2.00	U-NII-5	WLAN, 10755-AAC	6025.0, 15	1.0

Hardware Setup

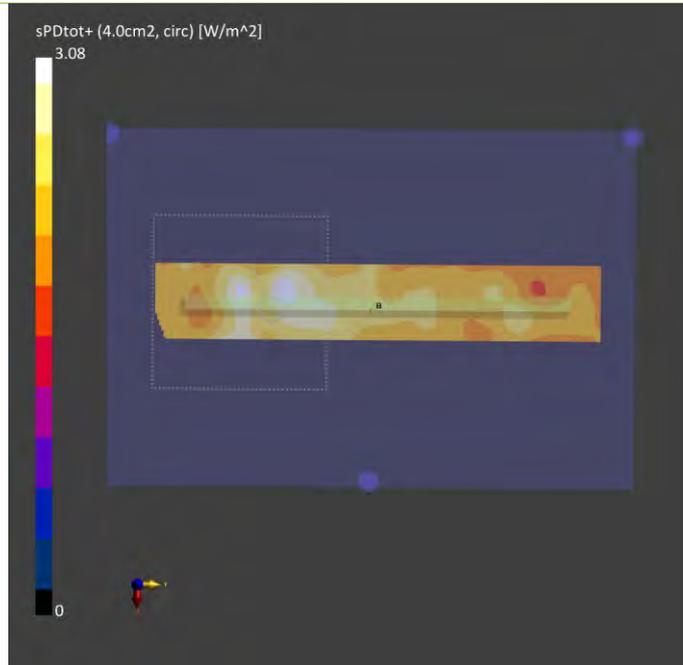
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave-	--Air--	EUmmWV4 - SN9438_F1-55GHz, 2021-07-26	DAE4 Sn1590, 2021-09-20

Scan Setup

	5G Scan	
Grid Extents [mm]	120.0 x	120.0
Grid Steps [lambda]	0.25 x	0.25
Sensor Surface [mm]		2.0

Measurement Results

	5G Scan
Date	2022-04-08
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.04
psPDtot+ [W/m ²]	3.08
psPDmod+ [W/m ²]	3.37
E _{max} [V/m]	65.8
Power Drift [dB]	-0.15



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 $\pm 2\text{ }^{\circ}\text{C}$.
2. For Section 4.4, The SAR measurement system was validated according to procedures in KDB 865664 D01. The validation status in tabulated summary is as below.
3. For Section 4.5, Comparing to the reference SAR value provided by SPEAG in dipole calibration certificate, the deviation of system check results is within its specification of 10 %. The result indicates the system check can meet the variation criterion and the plots please refer to Annex A of this report.

Tissue Verification									Validation for CW			Validation for Modulation			System Validation					Note				
Plot No.	Frequency (MHz)	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (εr)	Targeted Conductivity (σ)	Targeted Permittivity (εr)	Deviation Conductivity (σ)	Deviation Permittivity (εr)	Sensitivity Range	Probe Linearity	Probe Isotropy	Modulation Type	Duty Factor	PAR	Date	Frequency (MHz)	Targeted 1g SAR (W/kg)	Measured 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)	Dipole S/N	Probe S/N	DAE S/N	Output Power (dB)
S01	1900	23.2	1.457	38.276	1.4	40	4.07	-4.31	Pass	Pass	Pass	N/A	N/A	N/A	Mar. 29, 2022	1900	40.40	2.11	42.10	4.21	5d036	3820	1431	17
S02	1750	23.4	1.368	38.841	1.37	40.1	-0.15	-3.14	Pass	Pass	Pass	N/A	N/A	N/A	Mar. 26, 2022	1750	35.80	1.75	34.92	-2.47	1055	7554	1589	17
S03	835	23.4	0.931	40.566	0.9	41.5	3.44	-2.25	Pass	Pass	Pass	N/A	N/A	N/A	Mar. 26, 2022	835	9.58	0.478	9.54	-0.45	4d121	7554	1589	17
S04	1900	23.2	1.457	38.276	1.4	40	4.07	-4.31	Pass	Pass	Pass	N/A	N/A	N/A	Mar. 29, 2022	1900	40.40	2.11	42.10	4.21	5d036	3820	1431	17
S05	1750	23.4	1.368	38.841	1.37	40.1	-0.15	-3.14	Pass	Pass	Pass	N/A	N/A	N/A	Mar. 26, 2022	1750	35.80	1.75	34.92	-2.47	1055	7554	1589	17
S06	835	23.3	0.872	45.053	0.9	41.5	-3.11	8.56	Pass	Pass	Pass	N/A	N/A	N/A	Mar. 30, 2022	835	9.58	0.494	9.86	2.89	4d121	3820	1431	17
S07	2600	23.2	1.901	38.467	1.96	39	-3.01	-1.37	Pass	Pass	Pass	N/A	N/A	N/A	Mar. 29, 2022	2600	57.60	2.83	56.47	-1.97	1020	3820	1431	17
S08	750	23.2	0.921	42.312	0.9	42	2.33	0.74	Pass	Pass	Pass	N/A	N/A	N/A	Mar. 28, 2022	750	8.56	0.453	9.04	5.59	1013	7554	1589	17
S09	750	23.2	0.921	42.312	0.9	42	2.33	0.74	Pass	Pass	Pass	N/A	N/A	N/A	Mar. 28, 2022	750	8.56	0.453	9.04	5.59	1013	7554	1589	17
S10	750	23.2	0.921	42.312	0.9	42	2.33	0.74	Pass	Pass	Pass	N/A	N/A	N/A	Mar. 28, 2022	750	8.56	0.453	9.04	5.59	1013	7554	1589	17
S11	750	23.4	0.894	40.645	0.9	42	-0.67	-3.23	Pass	Pass	Pass	N/A	N/A	N/A	Mar. 31, 2022	750	8.56	0.464	9.26	8.15	1013	3820	1431	17
S12	1900	23.1	1.463	38.847	1.4	40	4.50	-2.88	Pass	Pass	Pass	N/A	N/A	N/A	Apr. 01, 2022	1900	40.40	2.09	41.70	3.22	5d036	3820	1431	17
S13	835	23.4	0.931	40.566	0.9	41.5	3.44	-2.25	Pass	Pass	Pass	N/A	N/A	N/A	Mar. 26, 2022	835	9.58	0.478	9.54	-0.45	4d121	7554	1589	17
S14	2300	23.4	1.716	38.469	1.67	39.5	2.75	-2.61	Pass	Pass	Pass	N/A	N/A	N/A	Mar. 29, 2022	2300	49.20	2.46	49.08	-0.24	1004	7554	1589	17
S15	2600	23.1	1.9	38.472	1.96	39	-3.06	-1.35	Pass	Pass	Pass	N/A	N/A	N/A	Apr. 01, 2022	2600	57.60	2.68	53.47	-7.16	1020	3820	1431	17
S16	2300	23.4	1.716	38.469	1.67	39.5	2.75	-2.61	Pass	Pass	Pass	N/A	N/A	N/A	Mar. 29, 2022	2300	49.20	2.46	49.08	-0.24	1004	7554	1589	17
S17	2600	23.3	2.03	37.454	1.96	39	3.57	-3.96	Pass	Pass	Pass	N/A	N/A	N/A	Mar. 22, 2022	2600	57.60	2.73	54.47	-5.43	1020	7554	1589	17
S20a	3500	23.1	2.922	37.452	2.91	37.9	0.41	-1.18	Pass	Pass	Pass	N/A	N/A	N/A	Mar. 27, 2022	3500	65.60	3.45	68.84	4.93	1007	3820	1431	17
S20b	3700	23.1	3.133	36.831	3.12	37.7	0.42	-2.31	Pass	Pass	Pass	N/A	N/A	N/A	Mar. 27, 2022	3700	66.70	3.43	68.44	2.60	1017	3820	1431	17
S21	1750	23.4	1.368	38.841	1.37	40.1	-0.15	-3.14	Pass	Pass	Pass	N/A	N/A	N/A	Mar. 26, 2022	1750	35.80	1.75	34.92	-2.47	1055	7554	1589	17
S22	750	23.2	0.895	43.887	0.9	42	-0.56	4.49	Pass	Pass	Pass	N/A	N/A	N/A	Apr. 01, 2022	750	8.56	0.453	9.04	5.59	1013	7554	1589	17
S23	1900	23.4	1.459	38.57	1.4	40	4.21	-3.58	Pass	Pass	Pass	N/A	N/A	N/A	Mar. 26, 2022	1900	40.40	2.03	40.50	0.26	5d036	7554	1589	17
S24	835	23.4	0.931	40.566	0.9	41.5	3.44	-2.25	Pass	Pass	Pass	N/A	N/A	N/A	Mar. 26, 2022	835	9.58	0.478	9.54	-0.45	4d121	7554	1589	17
S25	2600	23.2	2.029	37.61	1.96	39	3.52	-3.56	Pass	Pass	Pass	N/A	N/A	N/A	Mar. 28, 2022	2600	57.60	3.04	60.66	5.31	1020	7554	1589	17
S26	1900	23.5	1.462	39.355	1.4	40	4.43	-1.61	Pass	Pass	Pass	N/A	N/A	N/A	Mar. 30, 2022	1900	40.40	2.04	40.70	0.75	5d036	7554	1589	17
S27	2300	23.4	1.716	38.469	1.67	39.5	2.75	-2.61	Pass	Pass	Pass	N/A	N/A	N/A	Mar. 29, 2022	2300	49.20	2.46	49.08	-0.24	1004	7554	1589	17
S28	2600	23.5	2.049	37.987	1.96	39	4.54	-2.60	Pass	Pass	Pass	N/A	N/A	N/A	Mar. 30, 2022	2600	57.60	2.76	55.07	-4.39	1020	7554	1589	17
S29	2300	23.5	1.714	39.064	1.67	39.5	2.63	-1.10	Pass	Pass	Pass	N/A	N/A	N/A	Mar. 30, 2022	2300	49.20	2.46	49.08	-0.24	1004	7554	1589	17
S30	2600	23.2	2.048	37.972	1.96	39	4.49	-2.64	Pass	Pass	Pass	N/A	N/A	N/A	Apr. 02, 2022	2600	57.60	2.75	54.87	-4.74	1020	7554	1589	17
S32	1750	23.3	1.374	41.484	1.37	40.1	0.29	3.45	Pass	Pass	Pass	N/A	N/A	N/A	Mar. 22, 2022	1750	35.80	1.78	35.52	-0.79	1055	7554	1589	17
S33	750	23.2	0.895	43.887	0.9	42	-0.56	4.49	Pass	Pass	Pass	N/A	N/A	N/A	Apr. 01, 2022	750	8.56	0.453	9.04	5.59	1013	7554	1589	17
S34a	3700	23.2	3.108	36.356	3.12	37.7	-0.38	-3.56	Pass	Pass	Pass	N/A	N/A	N/A	Apr. 02, 2022	3700	66.70	3.46	69.04	3.50	1017	7554	1589	17
S34b	3900	23.2	3.204	36.371	3.32	37.5	-3.49	-3.01	Pass	Pass	Pass	N/A	N/A	N/A	Apr. 02, 2022	3900	70.90	3.73	74.42	4.97	1020	7554	1589	17
S35	3700	23.2	3.108	36.356	3.12	37.7	-0.38	-3.56	Pass	Pass	Pass	N/A	N/A	N/A	Apr. 02, 2022	3700	66.70	3.46	69.04	3.50	1017	7554	1589	17
S36	2450	23.3	1.757	38.55	1.8	39.2	-2.39	-1.66	Pass	Pass	Pass	OFDM	N/A	Pass	Mar. 23, 2022	2450	52.60	2.58	51.48	-2.13	737	7554	1589	17
S37	5250	23.2	4.704	36.205	4.71	35.9	-0.13	0.85	Pass	Pass	Pass	OFDM	N/A	Pass	Mar. 21, 2022	5250	80.60	3.85	76.82	-4.69	1019	7554	1589	17
S38	5600	23.2	4.997	35.803	5.07	35.5	-1.44	0.85	Pass	Pass	Pass	OFDM	N/A	Pass	Mar. 21, 2022	5600	82.40	4.07	81.21	-1.45	1019	7554	1589	17
S39	5750	23.3	5.255	35.49	5.22	35.4	0.67	0.25	Pass	Pass	Pass	OFDM	N/A	Pass	Mar. 23, 2022	5750	79.40	3.62	72.23	-9.03	1019	7554	1589	17
S40	2450	23.3	1.757	38.55	1.8	39.2	-2.39	-1.66	Pass	Pass	Pass	OFDM	N/A	Pass	Mar. 23, 2022	2450	52.60	2.58	51.48	-2.13	737	7554	1589	17
S41S	6500	23.4	6.17	33.8	6.07	34.5	1.65	-2.03	Pass	Pass	Pass	OFDM	N/A	Pass	Apr. 07, 2022	6500	289.00	29.1	291.00	0.69	1008	7554	1589	20

Plot No.	Test Date	Frequency [GHz]	mmWave Probe S/N	Verification Source S/N	Averaging Area [cm ²]	Distance [mm]	Target Power Density [W/m ²]	Measured Power Density [W/m ²]	Deviation [%]
S41P	Apr. 08, 2022	10	9438	1025	4	10.0	51.3	53.3	3.90%

Annex D. Maximum Target Conducted Power

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

WCDMA Max. Tune-up Power (Full)		
Mode	RMC 12.2K	HSDPA DC-HSDPA HSUPA
	Maximum Target Power	Maximum Target Power
WCDMA Band II	24.5	24.5
WCDMA Band IV	24.5	24.5
WCDMA Band V	24.5	24.5

LTE Max. Tune-up Power (Full)				
Mode	QPSK	16QAM	64QAM	256QAM
	Maximum Target Power	Maximum Target Power	Maximum Target Power	Maximum Target Power
LTE 2	24.0	23.0	22.0	19.0
LTE 4	24.0	23.0	22.0	19.0
LTE 5	24.0	23.0	22.0	19.0
LTE 7	24.0	23.0	22.0	19.0
LTE 12	24.0	23.0	22.0	19.0
LTE 13	24.0	23.0	22.0	19.0
LTE 14	24.0	23.0	22.0	19.0
LTE 17	24.0	23.0	22.0	19.0
LTE 25	24.0	23.0	22.0	19.0
LTE 26	24.0	23.0	22.0	19.0
LTE 30	24.0	23.0	22.0	19.0
LTE 38	24.0	23.0	22.0	19.0
LTE 40	24.0	23.0	22.0	19.0
LTE 41(PC2)	27.0	26.0	25.0	22.0
LTE 41(PC3)	24.0	23.0	22.0	19.0
LTE 48	22.0	21.0	20.0	17.0
LTE 66	24.0	23.0	22.0	19.0
LTE 71	24.0	23.0	22.0	19.0

5G NR Max. Tune-up Power (Full)					
DFT-S Mode	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM
	Maximum Target Power				
NR 2	24.0	24.0	23.0	21.5	19.5
NR 5	24.0	24.0	23.0	21.5	19.5
NR 7	24.0	24.0	23.0	21.5	19.5
NR 25	24.0	24.0	23.0	21.5	19.5
NR 30	24.0	24.0	23.0	21.5	19.5
NR 38	24.0	24.0	23.0	21.5	19.5
NR 40	24.0	24.0	23.0	21.5	19.5
NR 41(PC2)	27.0	27.0	26.0	24.5	22.5
NR 41(PC3)	24.0	24.0	23.0	21.5	19.5
NR 66	24.0	24.0	23.0	21.5	19.5
NR 71	24.0	24.0	23.0	21.5	19.5
NR 77(PC2)	27.0	27.0	26.0	24.5	22.5
NR 77(PC3)	24.0	24.0	23.0	21.5	19.5
NR 78(PC2)	27.0	27.0	26.0	24.5	22.5
NR 78(PC3)	24.0	24.0	23.0	21.5	19.5

5G NR Max. Tune-up Power (Full)				
CP Mode	QPSK	16QAM	64QAM	256QAM
	Maximum Target Power	Maximum Target Power	Maximum Target Power	Maximum Target Power
NR 2	22.5	22.0	20.5	17.5
NR 5	22.5	22.0	20.5	17.5
NR 7	22.5	22.0	20.5	17.5
NR 25	22.5	22.0	20.5	17.5
NR 30	22.5	22.0	20.5	17.5
NR 38	22.5	22.0	20.5	17.5
NR 40	22.5	22.0	20.5	17.5
NR 41(PC2)	25.5	25.0	23.5	20.5
NR 41(PC3)	22.5	22.0	20.5	17.5
NR 66	22.5	22.0	20.5	17.5
NR 71	22.5	22.0	20.5	17.5
NR 77(PC2)	25.5	25.0	23.5	20.5
NR 77(PC3)	22.5	22.0	20.5	17.5
NR 78(PC2)	25.5	25.0	23.5	20.5
NR 78(PC3)	22.5	22.0	20.5	17.5

WCDMA Max. Tune-up Power (Laptop Mode Reduction)		
Mode	RMC 12.2K	HSDPA DC-HSDPA HSUPA
	Maximum Target Power	Maximum Target Power
WCDMA Band II	17.0	17.0
WCDMA Band IV	17.0	17.0
WCDMA Band V	20.5	20.5

LTE Max. Tune-up Power (Laptop Mode Reduction)				
Mode	QPSK	16QAM	64QAM	256QAM
	Maximum Target Power	Maximum Target Power	Maximum Target Power	Maximum Target Power
LTE 2	16.0	15.0	14.0	11.0
LTE 4	16.5	15.5	14.5	11.5
LTE 5	19.5	18.5	17.5	14.5
LTE 7	17.5	16.5	15.5	12.5
LTE 12	20.5	19.5	18.5	15.5
LTE 13	20.0	19.0	18.0	15.0
LTE 14	20.0	19.0	18.0	15.0
LTE 17	20.5	19.5	18.5	15.5
LTE 25	17.0	16.0	15.0	12.0
LTE 26	20.0	19.0	18.0	15.0
LTE 30	17.0	16.0	15.0	12.0
LTE 38	20.5	19.5	18.5	15.5
LTE 40	20.0	19.0	18.0	15.0
LTE 41	17.5	16.5	15.5	12.5
LTE 48	18.0	17.0	16.0	13.0
LTE 66	16.5	15.5	14.5	11.5
LTE 71	19.5	18.5	17.5	14.5

5G NR Max. Tune-up Power (Laptop Mode Reduction)					
DFT-S Mode	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM
	Maximum Target Power				
NR 2	16.0	16.0	15.0	13.5	11.5
NR 5	19.5	19.5	18.5	17.0	15.0
NR 7	17.5	17.5	16.5	15.0	13.0
NR 25	17.5	17.5	16.5	15.0	13.0
NR 30	16.5	16.5	15.5	14.0	12.0
NR 38	17.5	17.5	16.5	15.0	13.0
NR 40	17.5	17.5	16.5	15.0	13.0
NR 41	17.0	17.0	16.0	14.5	12.5
NR 66	15.0	15.0	14.0	12.5	10.5
NR 71	23.0	23.0	22.0	20.5	18.5
NR 77	18.5	18.5	17.5	16.0	14.0
NR 78	19.0	19.0	18.0	16.5	14.5

5G NR Max. Tune-up Power (Laptop Mode Reduction)				
CP Mode	QPSK	16QAM	64QAM	256QAM
	Maximum Target Power	Maximum Target Power	Maximum Target Power	Maximum Target Power
NR 2	14.5	14.0	12.5	9.5
NR 5	18.0	17.5	16.0	13.0
NR 7	16.0	15.5	14.0	11.0
NR 25	16.0	15.5	14.0	11.0
NR 30	15.0	14.5	13.0	10.0
NR 38	16.0	15.5	14.0	11.0
NR 40	16.0	15.5	14.0	11.0
NR 41	15.5	15.0	13.5	10.5
NR 66	13.5	13.0	11.5	8.5
NR 71	21.5	21.0	19.5	16.5
NR 77	17.0	16.5	15.0	12.0
NR 78	17.5	17.0	15.5	12.5

WCDMA Max. Tune-up Power (Tablet Mode Reduction)		
Mode	RMC 12.2K	HSDPA DC-HSDPA HSUPA
	Maximum Target Power	Maximum Target Power
WCDMA Band II	14.0	14.0
WCDMA Band IV	14.0	14.0
WCDMA Band V	18.5	18.5

LTE Max. Tune-up Power (Tablet Mode Reduction)				
Mode	QPSK	16QAM	64QAM	256QAM
	Maximum Target Power	Maximum Target Power	Maximum Target Power	Maximum Target Power
LTE 2	14.0	13.0	12.0	9.0
LTE 4	14.5	13.5	12.5	9.5
LTE 5	18.5	17.5	16.5	13.5
LTE 7	11.5	10.5	9.5	6.5
LTE 12	16.5	15.5	14.5	11.5
LTE 13	17.0	16.0	15.0	12.0
LTE 14	17.5	16.5	15.5	12.5
LTE 17	17.0	16.0	15.0	12.0
LTE 25	14.0	13.0	12.0	9.0
LTE 26	18.0	17.0	16.0	13.0
LTE 30	13.0	12.0	11.0	8.0
LTE 38	14.0	13.0	12.0	9.0
LTE 40	15.0	14.0	13.0	10.0
LTE 41	11.0	10.0	9.0	6.0
LTE 48	12.0	11.0	10.0	7.0
LTE 66	15.0	14.0	13.0	10.0
LTE 71	16.5	15.5	14.5	11.5

5G NR Max. Tune-up Power (Tablet Mode Reduction)					
DFT-S Mode	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM
	Maximum Target Power				
NR 2	15.5	15.5	14.5	13.0	11.0
NR 5	19.5	19.5	18.5	17.0	15.0
NR 7	12.5	12.5	11.5	10.0	8.0
NR 25	15.5	15.5	14.5	13.0	11.0
NR 30	13.0	13.0	12.0	10.5	8.5
NR 38	11.5	11.5	10.5	9.0	7.0
NR 40	12.5	12.5	11.5	10.0	8.0
NR 41	12.0	12.0	11.0	9.5	7.5
NR 66	15.0	15.0	14.0	12.5	10.5
NR 71	20.0	20.0	19.0	17.5	15.5
NR 77	10.5	10.5	9.5	8.0	6.0
NR 78	10.5	10.5	9.5	8.0	6.0

5G NR Max. Tune-up Power (Tablet Mode Reduction)				
CP Mode	QPSK	16QAM	64QAM	256QAM
	Maximum Target Power	Maximum Target Power	Maximum Target Power	Maximum Target Power
NR 2	14.0	13.5	12.0	9.0
NR 5	18.0	17.5	16.0	13.0
NR 7	11.0	10.5	9.0	6.0
NR 25	14.0	13.5	12.0	9.0
NR 30	11.5	11.0	9.5	6.5
NR 38	10.0	9.5	8.0	5.0
NR 40	11.0	10.5	9.0	6.0
NR 41	10.5	10.0	8.5	5.5
NR 66	13.5	13.0	11.5	8.5
NR 71	18.5	18.0	16.5	13.5
NR 77	9.0	8.5	7.0	4.0
NR 78	9.0	8.5	7.0	4.0

WLAN Tune-up Power (Laptop Mode)

WLAN 2.4GHz

Mode	Channel	Frequency	SISO Ant 0 Max Tune up	SISO Ant 1 Max Tune up	MIMO Ant 0 Tune up	MIMO Ant 1 Tune up	MIMO Ant 0+1 Max Tune up
802.11b	1	2412	20.00	20.00			
	6	2437	20.00	20.00			
	11	2462	20.00	20.00			
	12	2467	18.75	19.25			
	13	2472	15.75	16.75			
802.11g	1	2412	19.50	19.25			
	6	2437	20.00	20.00			
	11	2462	18.00	18.25			
	12	2467	15.00	14.75			
	13	2472	11.75	12.00			
802.11n HT20	1	2412	19.50	19.25	16.50	16.50	19.50
	6	2437	20.00	20.00	20.00	20.00	23.00
	11	2462	18.00	18.25	16.50	16.50	19.50
	12	2467	15.00	14.75	11.25	11.25	14.25
	13	2472	11.75	12.00	8.50	8.50	11.50
802.11n HT40	3	2422	15.50	15.75	15.25	15.25	18.25
	6	2437	17.50	17.75	16.00	16.00	19.00
	9	2452	15.50	17.00	15.50	15.50	18.50
	10	2457	12.25	12.50	11.25	11.25	14.25
	11	2462	9.75	10.75	8.25	8.25	11.25
802.11ax HE20	1	2412	19.50	19.25	14.50	14.50	17.50
	6	2437	20.00	20.00	17.875	17.875	20.875
	11	2462	18.00	18.25	14.50	14.50	17.50
	12	2467	15.00	14.75	11.25	11.25	14.25
	13	2472	11.75	12.00	8.50	8.50	11.50
802.11ax HE40	3	2422	15.50	15.75	13.50	13.50	16.50
	6	2437	17.50	17.75	13.75	13.75	16.75
	9	2452	15.50	17.00	12.75	12.75	15.75
	10	2457	12.25	12.50	11.25	11.25	14.25
	11	2462	9.75	10.75	8.25	8.25	11.25

WLAN Tune-up Power (Laptop Mode)**Bluetooth**

Mode	Channel	Frequency		Ant 1 Max Tune-up	
BR / EDR	0	2402		10.5	
	39	2441		10.5	
	78	2480		10.5	
LE	0	2402		7.0	
	19	2440		7.0	
	39	2480		7.0	

WLAN Tune-up Power (Laptop Mode)

WLAN 5.2GHz

Mode	Channel	Frequency	SISO Ant 0 Max Tune up	SISO Ant 1 Max Tune up	MIMO Ant 0 Tune up	MIMO Ant 1 Tune up	MIMO Ant 0+1 Max Tune up
802.11a	36	5180	19.50	19.50			
	40	5200	20.00	20.00			
	44	5220	20.00	20.00			
	48	5240	19.875	20.00			
802.11n HT20	36	5180	19.50	19.50	18.00	18.00	21.00
	40	5200	20.00	20.00	18.50	18.50	21.50
	44	5220	20.00	20.00	18.50	18.50	21.50
	48	5240	19.50	20.00	18.50	18.50	21.50
802.11n HT40	38	5190	17.75	18.75	15.50	15.50	18.50
	46	5230	20.00	20.00	20.00	20.00	23.00
802.11ac VHT80	42	5210	18.50	18.25	15.00	15.00	18.00
802.11ax HE20	36	5180	19.50	19.50	15.50	15.50	18.50
	40	5200	20.00	20.00	18.375	18.375	21.375
	44	5220	20.00	20.00	18.375	18.375	21.375
	48	5240	19.75	20.00	18.375	18.375	21.375
802.11ax HE40	38	5190	17.75	18.75	14.50	14.50	17.50
	46	5230	20.00	20.00	18.875	18.875	21.875
802.11ax HE80	42	5210	18.50	18.25	14.50	14.50	17.50

WLAN Tune-up Power (Laptop Mode)

WLAN 5.3GHz

Mode	Channel	Frequency	SISO Ant 0 Max Tune up	SISO Ant 1 Max Tune up	MIMO Ant 0 Tune up	MIMO Ant 1 Tune up	MIMO Ant 0+1 Max Tune up
802.11a	52	5260	19.875	20.00			
	56	5280	20.00	20.00			
	60	5300	20.00	20.00			
	64	5320	20.00	20.00			
802.11n HT20	52	5260	19.75	20.00	18.00	18.00	21.00
	56	5280	20.00	20.00	18.00	18.00	21.00
	60	5300	20.00	20.00	18.00	18.00	21.00
	64	5320	20.00	20.00	18.00	18.00	21.00
802.11n HT40	54	5270	19.875	20.00	20.00	20.00	23.00
	62	5310	17.50	17.50	16.50	16.50	19.50
802.11ac VHT80	58	5290	17.50	17.50	14.25	14.25	17.25
802.11ac VHT160	50	5250	14.50	14.00	12.50	12.50	15.50
802.11ax HE20	52	5260	19.875	20.00	18.25	18.25	21.25
	56	5280	20.00	20.00	18.00	18.00	21.00
	60	5300	20.00	20.00	18.375	18.375	21.375
	64	5320	20.00	20.00	15.75	15.75	18.75
802.11ax HE40	54	5270	19.75	20.00	18.75	18.75	21.75
	62	5310	17.50	17.50	14.25	14.25	17.25
802.11ax HE80	58	5290	17.50	17.50	14.25	14.25	17.25
802.11ax HE160	50	5250	14.50	14.00	12.50	12.50	15.50

WLAN Tune-up Power (Laptop Mode)

WLAN 5.6GHz

Mode	Channel	Frequency	SISO Ant 0 Max Tune up	SISO Ant 1 Max Tune up	MIMO Ant 0 Tune up	MIMO Ant 1 Tune up	MIMO Ant 0+1 Max Tune up
802.11a	100	5500	20.00	20.00			
	116	5580	20.00	20.00			
	120	5600	20.00	20.00			
	124	5620	20.00	20.00			
	132	5660	20.00	20.00			
	140	5700	20.00	20.00			
	144	5720	20.00	20.00			
802.11n HT20	100	5500	20.00	20.00	18.50	18.50	21.50
	116	5580	20.00	20.00	18.50	18.50	21.50
	120	5600	20.00	20.00	18.50	18.50	21.50
	124	5620	20.00	20.00	18.50	18.50	21.50
	132	5660	20.00	20.00	18.50	18.50	21.50
	140	5700	20.00	20.00	18.50	18.50	21.50
	144	5720	20.00	20.00	17.00	17.00	20.00
802.11n HT40	102	5510	19.75	20.00	18.00	18.00	21.00
	110	5550	20.00	20.00	18.00	18.00	21.00
	118	5590	20.00	20.00	18.00	18.00	21.00
	126	5630	20.00	20.00	18.00	18.00	21.00
	134	5670	20.00	20.00	19.50	19.50	22.50
	142	5710	20.00	20.00	17.00	17.00	20.00
802.11ac VHT80	106	5530	18.50	18.75	14.75	14.75	17.75
	122	5610	20.00	20.00	18.00	18.00	21.00
	138	5690	20.00	20.00	17.50	17.50	20.50
802.11ac VHT160	114	5570	15.50	15.50	14.00	14.00	17.00
802.11ax HE20	100	5500	20.00	20.00	18.50	18.50	21.50
	116	5580	20.00	20.00	18.50	18.50	21.50
	120	5600	20.00	20.00	18.50	18.50	21.50
	124	5620	20.00	20.00	18.50	18.50	21.50
	132	5660	20.00	20.00	18.50	18.50	21.50
	140	5700	20.00	20.00	18.50	18.50	21.50
	144	5720	20.00	20.00	17.00	17.00	20.00
802.11ax HE40	102	5510	19.75	20.00	18.00	18.00	21.00
	110	5550	20.00	20.00	18.00	18.00	21.00
	118	5590	20.00	20.00	18.00	18.00	21.00
	126	5630	20.00	20.00	18.00	18.00	21.00
	134	5670	20.00	20.00	19.50	19.50	22.50
	142	5710	20.00	20.00	17.00	17.00	20.00
802.11ax HE80	106	5530	18.50	18.75	14.75	14.75	17.75
	122	5610	20.00	20.00	18.00	18.00	21.00
	138	5690	20.00	20.00	17.50	17.50	20.50
802.11ax HE160	114	5570	15.50	15.50	14.00	14.00	17.00

WLAN Tune-up Power (Laptop Mode)

WLAN 5.8GHz

Mode	Channel	Frequency	SISO Ant 0 Max Tune up	SISO Ant 1 Max Tune up	MIMO Ant 0 Tune up	MIMO Ant 1 Tune up	MIMO Ant 0+1 Max Tune up
802.11a	149	5745	20.00	20.00			
	153	5765	20.00	20.00			
	157	5785	20.00	20.00			
	161	5805	20.00	20.00			
	165	5825	20.00	20.00			
802.11n HT20	149	5745	20.00	20.00	20.00	20.00	23.00
	153	5765	20.00	20.00	20.00	20.00	23.00
	157	5785	20.00	20.00	20.00	20.00	23.00
	161	5805	20.00	20.00	20.00	20.00	23.00
	165	5825	20.00	20.00	20.00	20.00	23.00
802.11n HT40	151	5755	20.00	20.00	20.00	20.00	23.00
	159	5795	20.00	20.00	20.00	20.00	23.00
802.11ac VHT80	155	5775	20.00	20.00	15.75	15.75	18.75
802.11ax HE20	149	5745	20.00	20.00	18.125	18.125	21.125
	153	5765	20.00	20.00	18.125	18.125	21.125
	157	5785	20.00	20.00	18.125	18.125	21.125
	161	5805	20.00	20.00	18.125	18.125	21.125
	165	5825	20.00	20.00	18.25	18.25	21.25
802.11ax HE40	151	5755	20.00	20.00	18.625	18.625	21.625
	159	5795	20.00	20.00	18.625	18.625	21.625
802.11ax HE80	155	5775	20.00	20.00	15.75	15.75	18.75

WLAN Tune-up Power (Laptop Mode)

UNII-5

Mode	Channel	Frequency	SISO Ant 0 Max Tune up	SISO Ant 1 Max Tune up	MIMO Ant 0 Tune up	MIMO Ant 1 Tune up	MIMO Ant 0+1 Max Tune up
802.11ax HE20	1	5955	5.00	5.00	2.00	2.00	5.00
	5	5975	5.00	5.00	2.00	2.00	5.00
	9	5995	5.00	5.00	2.00	2.00	5.00
	13	6015	5.00	5.00	2.00	2.00	5.00
	17	6035	5.00	5.00	2.00	2.00	5.00
	21	6055	5.00	5.00	2.00	2.00	5.00
	25	6075	5.00	5.00	2.00	2.00	5.00
	29	6095	5.00	5.00	2.00	2.00	5.00
	33	6115	5.00	5.00	2.00	2.00	5.00
	37	6135	5.00	5.00	2.00	2.00	5.00
	41	6155	5.00	5.00	2.00	2.00	5.00
	45	6175	5.00	5.00	2.00	2.00	5.00
	49	6195	5.00	5.00	2.00	2.00	5.00
	53	6215	5.00	5.00	2.00	2.00	5.00
	57	6235	5.00	5.00	2.00	2.00	5.00
	61	6255	5.00	5.00	2.00	2.00	5.00
	65	6275	5.00	5.00	2.00	2.00	5.00
	69	6295	5.00	5.00	2.00	2.00	5.00
	73	6315	5.00	5.00	2.00	2.00	5.00
	77	6335	5.00	5.00	2.00	2.00	5.00
81	6355	5.00	5.00	2.00	2.00	5.00	
85	6375	5.00	5.00	2.00	2.00	5.00	
89	6395	5.00	5.00	2.00	2.00	5.00	
93	6415	5.00	5.00	2.00	2.00	5.00	
802.11ax HE40	3	5965	8.25	8.25	5.25	5.25	8.25
	11	6005	8.25	8.25	5.25	5.25	8.25
	19	6045	8.25	8.25	5.25	5.25	8.25
	27	6085	8.25	8.25	5.25	5.25	8.25
	35	6125	8.25	8.25	5.25	5.25	8.25
	43	6165	8.25	8.25	5.25	5.25	8.25
	51	6205	8.25	8.25	5.25	5.25	8.25
	59	6245	8.25	8.25	5.25	5.25	8.25
	67	6285	8.25	8.25	5.25	5.25	8.25
	75	6325	8.25	8.25	5.25	5.25	8.25
	83	6365	8.25	8.25	5.25	5.25	8.25
91	6405	8.25	8.25	5.25	5.25	8.25	
802.11ax HE80	7	5985	10.75	10.75	7.75	7.75	10.75
	23	6065	10.75	10.75	7.75	7.75	10.75
	39	6145	10.75	10.75	7.75	7.75	10.75
	55	6225	10.75	10.75	7.75	7.75	10.75
	71	6305	10.75	10.75	7.75	7.75	10.75
	87	6385	10.75	10.75	7.75	7.75	10.75
802.11ax HE160	15	6025	13.00	13.00	10.50	10.50	13.50
	47	6185	13.00	13.00	10.50	10.50	13.50
	79	6345	13.00	13.00	10.50	10.50	13.50

WLAN Tune-up Power (Laptop Mode)**UNII-6**

Mode	Channel	Frequency	SISO Ant 0 Max Tune up	SISO Ant 1 Max Tune up	MIMO Ant 0 Tune up	MIMO Ant 1 Tune up	MIMO Ant 0+1 Max Tune up
802.11ax HE20	97	6435	5.00	5.00	2.00	2.00	5.00
	101	6455	5.00	5.00	2.00	2.00	5.00
	105	6475	5.00	5.00	2.00	2.00	5.00
	109	6495	5.00	5.00	2.00	2.00	5.00
	113	6515	5.00	5.00	2.00	2.00	5.00
	117	6535	4.25	4.25	1.25	1.25	4.25
802.11ax HE40	99	6445	8.25	8.25	5.25	5.25	8.25
	107	6485	8.25	8.25	5.25	5.25	8.25
	115	6525	8.25	8.25	5.25	5.25	8.25
802.11ax HE80	103	6465	10.75	10.75	7.75	7.75	10.75
	119	6545	10.75	10.75	7.75	7.75	10.75
802.11ax HE160	111	6505	13.00	13.00	10.50	10.50	13.50

WLAN Tune-up Power (Laptop Mode)

UNII-7

Mode	Channel	Frequency	SISO Ant 0 Max Tune up	SISO Ant 1 Max Tune up	MIMO Ant 0 Tune up	MIMO Ant 1 Tune up	MIMO Ant 0+1 Max Tune up
802.11ax HE20	121	6555	4.25	4.25	1.25	1.25	4.25
	125	6575	4.25	4.25	1.25	1.25	4.25
	129	6595	4.25	4.25	1.25	1.25	4.25
	133	6615	4.25	4.25	1.25	1.25	4.25
	137	6635	4.25	4.25	1.25	1.25	4.25
	141	6655	4.25	4.25	1.25	1.25	4.25
	145	6675	4.25	4.25	1.25	1.25	4.25
	149	6695	4.25	4.25	1.25	1.25	4.25
	153	6715	4.25	4.25	1.25	1.25	4.25
	157	6735	4.25	4.25	1.25	1.25	4.25
	161	6755	4.25	4.25	1.25	1.25	4.25
	165	6775	4.25	4.25	1.25	1.25	4.25
	169	6795	4.25	4.25	1.25	1.25	4.25
	173	6815	4.25	4.25	1.25	1.25	4.25
	177	6835	4.25	4.25	1.25	1.25	4.25
181	6855	4.25	4.25	1.25	1.25	4.25	
185	6875	4.25	4.25	1.25	1.25	4.25	
802.11ax HE40	123	6565	7.50	7.50	4.50	4.50	7.50
	131	6605	7.50	7.50	4.50	4.50	7.50
	139	6645	7.50	7.50	4.50	4.50	7.50
	147	6685	7.50	7.50	4.50	4.50	7.50
	155	6725	7.50	7.50	4.50	4.50	7.50
	163	6765	7.50	7.50	4.50	4.50	7.50
	171	6805	7.50	7.50	4.50	4.50	7.50
	179	6845	7.50	7.50	4.50	4.50	7.50
187	6885	7.50	7.50	4.50	4.50	7.50	
802.11ax HE80	135	6625	10.00	10.00	7.00	7.00	10.00
	151	6705	10.00	10.00	7.00	7.00	10.00
	167	6785	10.00	10.00	7.00	7.00	10.00
	183	6865	10.00	10.00	7.00	7.00	10.00
802.11ax HE160	143	6665	12.75	12.75	9.75	9.75	12.75
	175	6825	12.75	12.75	9.75	9.75	12.75

WLAN Tune-up Power (Laptop Mode)

UNII-8

Mode	Channel	Frequency	SISO Ant 0 Max Tune up	SISO Ant 1 Max Tune up	MIMO Ant 0 Tune up	MIMO Ant 1 Tune up	MIMO Ant 0+1 Max Tune up
802.11ax HE20	189	6895	4.25	4.25	1.25	1.25	4.25
	193	6915	4.25	4.25	1.25	1.25	4.25
	197	6935	4.25	4.25	1.25	1.25	4.25
	201	6955	4.25	4.25	1.25	1.25	4.25
	205	6975	4.25	4.25	1.25	1.25	4.25
	209	6995	4.25	4.25	1.25	1.25	4.25
	213	7015	4.25	4.25	1.25	1.25	4.25
	217	7035	4.25	4.25	1.25	1.25	4.25
	221	7055	4.25	4.25	1.25	1.25	4.25
	225	7075	4.25	4.25	1.25	1.25	4.25
	229	7095	4.25	4.25	1.25	1.25	4.25
	233	7115	-1.00	-1.00	-4.00	-4.00	-1.00
802.11ax HE40	195	6925	7.50	7.50	4.50	4.50	7.50
	203	6965	7.50	7.50	4.50	4.50	7.50
	211	7005	7.50	7.50	4.50	4.50	7.50
	219	7045	7.50	7.50	4.50	4.50	7.50
	227	7085	7.50	7.50	4.50	4.50	7.50
802.11ax HE80	199	6945	10.00	10.00	7.00	7.00	10.00
	215	7025	10.00	10.00	7.00	7.00	10.00
802.11ax HE160	207	6985	12.75	12.75	9.75	9.75	12.75

WLAN Tune-up Power (Tablet Mode)

WLAN 2.4GHz

Mode	Channel	Frequency	SISO Ant 0 Max Tune up	SISO Ant 1 Max Tune up	MIMO Ant 0 Tune up	MIMO Ant 1 Tune up	MIMO Ant 0+1 Max Tune up
802.11b	1	2412	17.00	20.00			
	6	2437	17.00	20.00			
	11	2462	17.00	20.00			
	12	2467	17.00	19.25			
	13	2472	15.75	16.75			
802.11g	1	2412	17.00	19.25			
	6	2437	17.00	20.00			
	11	2462	17.00	18.25			
	12	2467	15.00	14.75			
	13	2472	11.75	12.00			
802.11n HT20	1	2412	17.00	19.25	16.50	16.50	19.50
	6	2437	17.00	20.00	17.00	17.00	20.00
	11	2462	17.00	18.25	16.50	16.50	19.50
	12	2467	15.00	14.75	11.25	11.25	14.25
	13	2472	11.75	12.00	8.50	8.50	11.50
802.11n HT40	3	2422	15.50	15.75	15.25	15.25	18.25
	6	2437	17.00	17.75	16.00	16.00	19.00
	9	2452	15.50	17.00	15.50	15.50	18.50
	10	2457	12.25	12.50	11.25	11.25	14.25
	11	2462	9.75	10.75	8.25	8.25	11.25
802.11ax HE20	1	2412	17.00	19.25	14.50	14.50	17.50
	6	2437	17.00	20.00	17.00	17.00	20.00
	11	2462	17.00	18.25	14.50	14.50	17.50
	12	2467	15.00	14.75	11.25	11.25	14.25
	13	2472	11.75	12.00	8.50	8.50	11.50
802.11ax HE40	3	2422	15.50	15.75	13.50	13.50	16.50
	6	2437	17.00	17.75	13.75	13.75	16.75
	9	2452	15.50	17.00	12.75	12.75	15.75
	10	2457	12.25	12.50	11.25	11.25	14.25
	11	2462	9.75	10.75	8.25	8.25	11.25

WLAN Tune-up Power (Tablet Mode)

Bluetooth

Mode	Channel	Frequency	Ant 1 Max Tune-up
BR / EDR	0	2402	10.5
	39	2441	10.5
	78	2480	10.5
LE	0	2402	7
	19	2440	7
	39	2480	7

WLAN Tune-up Power (Tablet Mode)

WLAN 5.2GHz

Mode	Channel	Frequency	SISO Ant 0 Max Tune up	SISO Ant 1 Max Tune up	MIMO Ant 0 Tune up	MIMO Ant 1 Tune up	MIMO Ant 0+1 Max Tune up
802.11a	36	5180	15.50	16.50			
	40	5200	15.50	16.50			
	44	5220	15.50	16.50			
	48	5240	15.50	16.50			
802.11n HT20	36	5180	15.50	16.50	14.50	14.50	17.50
	40	5200	15.50	16.50	14.50	14.50	17.50
	44	5220	15.50	16.50	14.50	14.50	17.50
	48	5240	15.50	16.50	14.50	14.50	17.50
802.11n HT40	38	5190	15.50	16.50	14.50	14.50	17.50
	46	5230	15.50	16.50	14.50	14.50	17.50
802.11ac VHT80	42	5210	15.50	16.00	14.25	14.25	17.25
802.11ax HE20	36	5180	15.50	16.50	14.50	14.50	17.50
	40	5200	15.50	16.50	14.50	14.50	17.50
	44	5220	15.50	16.50	14.50	14.50	17.50
	48	5240	15.50	16.50	14.50	14.50	17.50
802.11ax HE40	38	5190	15.50	16.50	14.50	14.50	17.50
	46	5230	15.50	16.50	14.25	14.25	17.25
802.11ax HE80	42	5210	15.50	16.00	14.25	14.25	17.25

WLAN Tune-up Power (Tablet Mode)

WLAN 5.3GHz

Mode	Channel	Frequency	SISO Ant 0 Max Tune up	SISO Ant 1 Max Tune up	MIMO Ant 0 Tune up	MIMO Ant 1 Tune up	MIMO Ant 0+1 Max Tune up
802.11a	52	5260	15.50	16.50			
	56	5280	15.50	16.50			
	60	5300	15.50	16.50			
	64	5320	15.50	16.50			
802.11n HT20	52	5260	15.50	16.50	14.50	14.50	17.50
	56	5280	15.50	16.50	14.50	14.50	17.50
	60	5300	15.50	16.50	14.50	14.50	17.50
	64	5320	15.50	16.50	14.50	14.50	17.50
802.11n HT40	54	5270	15.50	16.50	14.50	14.50	17.50
	62	5310	15.50	16.50	14.50	14.50	17.50
802.11ac VHT80	58	5290	15.50	16.00	14.25	14.25	17.25
802.11ac VHT160	50	5250	14.50	14.00	12.50	12.50	15.50
802.11ax HE20	52	5260	15.50	16.50	14.50	14.50	17.50
	56	5280	15.50	16.50	14.50	14.50	17.50
	60	5300	15.50	16.50	14.50	14.50	17.50
	64	5320	15.50	16.50	14.50	14.50	17.50
802.11ax HE40	54	5270	15.50	16.50	14.50	14.50	17.50
	62	5310	15.50	16.50	14.25	14.25	17.25
802.11ax HE80	58	5290	15.50	16.00	14.25	14.25	17.25
802.11ax HE160	50	5250	14.50	14.00	12.50	12.50	15.50

WLAN Tune-up Power (Tablet Mode)

WLAN 5.6GHz

Mode	Channel	Frequency	SISO Ant 0 Max Tune up	SISO Ant 1 Max Tune up	MIMO Ant 0 Tune up	MIMO Ant 1 Tune up	MIMO Ant 0+1 Max Tune up
802.11a	100	5500	14.50	17.00			
	116	5580	14.50	17.00			
	120	5600	14.50	17.00			
	124	5620	14.50	17.00			
	132	5660	14.50	17.00			
	140	5700	14.50	17.00			
	144	5720	14.50	17.00			
802.11n HT20	100	5500	14.50	17.00	14.50	17.00	18.75
	116	5580	14.50	17.00	14.50	17.00	18.75
	120	5600	14.50	17.00	14.50	17.00	18.75
	124	5620	14.50	17.00	14.50	17.00	18.75
	132	5660	14.50	17.00	14.50	17.00	18.75
	140	5700	14.50	17.00	14.50	17.00	18.75
	144	5720	14.50	17.00	14.50	17.00	18.75
802.11n HT40	102	5510	14.50	17.00	14.50	17.00	18.75
	110	5550	14.50	17.00	14.50	17.00	18.75
	118	5590	14.50	17.00	14.50	17.00	18.75
	126	5630	14.50	17.00	14.50	17.00	18.75
	134	5670	14.50	17.00	14.50	17.00	18.75
	142	5710	14.50	17.00	14.50	17.00	18.75
802.11ac VHT80	106	5530	14.50	17.00	14.50	14.75	17.625
	122	5610	14.50	17.00	14.50	17.00	18.75
	138	5690	14.50	17.00	14.50	17.00	18.75
802.11ac VHT160	114	5570	14.50	15.50	14.00	14.00	17.00
802.11ax HE20	100	5500	14.50	17.00	14.50	16.75	18.625
	116	5580	14.50	17.00	14.50	17.00	18.75
	120	5600	14.50	17.00	14.50	17.00	18.75
	124	5620	14.50	17.00	14.50	17.00	18.75
	132	5660	14.50	17.00	14.50	17.00	18.75
	140	5700	14.50	17.00	14.50	16.75	18.625
	144	5720	14.50	17.00	14.50	17.00	18.75
802.11ax HE40	102	5510	14.50	17.00	14.50	15.25	17.875
	110	5550	14.50	17.00	14.50	17.00	18.75
	118	5590	14.50	17.00	14.50	17.00	18.75
	126	5630	14.50	17.00	14.50	17.00	18.75
	134	5670	14.50	17.00	14.50	17.00	18.75
	142	5710	14.50	17.00	14.50	17.00	18.75
802.11ax HE80	106	5530	14.50	17.00	14.50	14.75	17.625
	122	5610	14.50	17.00	14.50	17.00	18.75
	138	5690	14.50	17.00	14.50	17.00	18.75
802.11ax HE160	114	5570	14.50	15.50	14.00	14.00	17.00

WLAN Tune-up Power (Tablet Mode)

WLAN 5.8GHz

Mode	Channel	Frequency	SISO Ant 0 Max Tune up	SISO Ant 1 Max Tune up	MIMO Ant 0 Tune up	MIMO Ant 1 Tune up	MIMO Ant 0+1 Max Tune up
802.11a	149	5745	15.50	17.50			
	153	5765	15.50	17.50			
	157	5785	15.50	17.50			
	161	5805	15.50	17.50			
	165	5825	15.50	17.50			
802.11n HT20	149	5745	15.50	17.50	15.50	17.50	19.50
	153	5765	15.50	17.50	15.50	17.50	19.50
	157	5785	15.50	17.50	15.50	17.50	19.50
	161	5805	15.50	17.50	15.50	17.50	19.50
	165	5825	15.50	17.50	15.50	17.50	19.50
802.11n HT40	151	5755	15.50	17.50	15.50	17.50	19.50
	159	5795	15.50	17.50	15.50	17.50	19.50
802.11ac VHT80	155	5775	15.50	17.50	15.50	15.75	18.625
802.11ax HE20	149	5745	15.50	17.50	15.50	17.50	19.50
	153	5765	15.50	17.50	15.50	17.50	19.50
	157	5785	15.50	17.50	15.50	17.50	19.50
	161	5805	15.50	17.50	15.50	17.50	19.50
	165	5825	15.50	17.50	15.50	17.50	19.50
802.11ax HE40	151	5755	15.50	17.50	15.50	17.50	19.50
	159	5795	15.50	17.50	15.50	17.50	19.50
802.11ax HE80	155	5775	15.50	17.50	15.50	15.75	18.625

WLAN Tune-up Power (Tablet Mode)

UNII-5

Mode	Channel	Frequency	SISO Ant 0 Max Tune up	SISO Ant 1 Max Tune up	MIMO Ant 0 Tune up	MIMO Ant 1 Tune up	MIMO Ant 0+1 Max Tune up
802.11ax HE20	1	5955	5.00	5.00	2.00	2.00	5.00
	5	5975	5.00	5.00	2.00	2.00	5.00
	9	5995	5.00	5.00	2.00	2.00	5.00
	13	6015	5.00	5.00	2.00	2.00	5.00
	17	6035	5.00	5.00	2.00	2.00	5.00
	21	6055	5.00	5.00	2.00	2.00	5.00
	25	6075	5.00	5.00	2.00	2.00	5.00
	29	6095	5.00	5.00	2.00	2.00	5.00
	33	6115	5.00	5.00	2.00	2.00	5.00
	37	6135	5.00	5.00	2.00	2.00	5.00
	41	6155	5.00	5.00	2.00	2.00	5.00
	45	6175	5.00	5.00	2.00	2.00	5.00
	49	6195	5.00	5.00	2.00	2.00	5.00
	53	6215	5.00	5.00	2.00	2.00	5.00
	57	6235	5.00	5.00	2.00	2.00	5.00
	61	6255	5.00	5.00	2.00	2.00	5.00
	65	6275	5.00	5.00	2.00	2.00	5.00
	69	6295	5.00	5.00	2.00	2.00	5.00
	73	6315	5.00	5.00	2.00	2.00	5.00
	77	6335	5.00	5.00	2.00	2.00	5.00
81	6355	5.00	5.00	2.00	2.00	5.00	
85	6375	5.00	5.00	2.00	2.00	5.00	
89	6395	5.00	5.00	2.00	2.00	5.00	
93	6415	5.00	5.00	2.00	2.00	5.00	
802.11ax HE40	3	5965	8.25	8.25	5.25	5.25	8.25
	11	6005	8.25	8.25	5.25	5.25	8.25
	19	6045	8.25	8.25	5.25	5.25	8.25
	27	6085	8.25	8.25	5.25	5.25	8.25
	35	6125	8.25	8.25	5.25	5.25	8.25
	43	6165	8.25	8.25	5.25	5.25	8.25
	51	6205	8.25	8.25	5.25	5.25	8.25
	59	6245	8.25	8.25	5.25	5.25	8.25
	67	6285	8.25	8.25	5.25	5.25	8.25
	75	6325	8.25	8.25	5.25	5.25	8.25
	83	6365	8.25	8.25	5.25	5.25	8.25
91	6405	8.25	8.25	5.25	5.25	8.25	
802.11ax HE80	7	5985	10.75	10.75	7.75	7.75	10.75
	23	6065	10.75	10.75	7.75	7.75	10.75
	39	6145	10.75	10.75	7.75	7.75	10.75
	55	6225	10.75	10.75	7.75	7.75	10.75
	71	6305	10.75	10.75	7.75	7.75	10.75
	87	6385	10.75	10.75	7.75	7.75	10.75
802.11ax HE160	15	6025	13.00	13.00	10.50	10.50	13.50
	47	6185	13.00	13.00	10.50	10.50	13.50
	79	6345	13.00	13.00	10.50	10.50	13.50

WLAN Tune-up Power (Tablet Mode)

UNII-6

Mode	Channel	Frequency	SISO Ant 0 Max Tune up	SISO Ant 1 Max Tune up	MIMO Ant 0 Tune up	MIMO Ant 1 Tune up	MIMO Ant 0+1 Max Tune up
802.11ax HE20	97	6435	5.00	5.00	2.00	2.00	5.00
	101	6455	5.00	5.00	2.00	2.00	5.00
	105	6475	5.00	5.00	2.00	2.00	5.00
	109	6495	5.00	5.00	2.00	2.00	5.00
	113	6515	5.00	5.00	2.00	2.00	5.00
	117	6535	4.25	4.25	1.25	1.25	4.25
802.11ax HE40	99	6445	8.25	8.25	5.25	5.25	8.25
	107	6485	8.25	8.25	5.25	5.25	8.25
	115	6525	8.25	8.25	5.25	5.25	8.25
802.11ax HE80	103	6465	10.75	10.75	7.75	7.75	10.75
	119	6545	10.75	10.75	7.75	7.75	10.75
802.11ax HE160	111	6505	13.00	13.00	10.50	10.50	13.50

WLAN Tune-up Power (Tablet Mode)

UNII-7

Mode	Channel	Frequency	SISO Ant 0 Max Tune up	SISO Ant 1 Max Tune up	MIMO Ant 0 Tune up	MIMO Ant 1 Tune up	MIMO Ant 0+1 Max Tune up
802.11ax HE20	121	6555	4.25	4.25	1.25	1.25	4.25
	125	6575	4.25	4.25	1.25	1.25	4.25
	129	6595	4.25	4.25	1.25	1.25	4.25
	133	6615	4.25	4.25	1.25	1.25	4.25
	137	6635	4.25	4.25	1.25	1.25	4.25
	141	6655	4.25	4.25	1.25	1.25	4.25
	145	6675	4.25	4.25	1.25	1.25	4.25
	149	6695	4.25	4.25	1.25	1.25	4.25
	153	6715	4.25	4.25	1.25	1.25	4.25
	157	6735	4.25	4.25	1.25	1.25	4.25
	161	6755	4.25	4.25	1.25	1.25	4.25
	165	6775	4.25	4.25	1.25	1.25	4.25
	169	6795	4.25	4.25	1.25	1.25	4.25
	173	6815	4.25	4.25	1.25	1.25	4.25
	177	6835	4.25	4.25	1.25	1.25	4.25
181	6855	4.25	4.25	1.25	1.25	4.25	
185	6875	4.25	4.25	1.25	1.25	4.25	
802.11ax HE40	123	6565	7.50	7.50	4.50	4.50	7.50
	131	6605	7.50	7.50	4.50	4.50	7.50
	139	6645	7.50	7.50	4.50	4.50	7.50
	147	6685	7.50	7.50	4.50	4.50	7.50
	155	6725	7.50	7.50	4.50	4.50	7.50
	163	6765	7.50	7.50	4.50	4.50	7.50
	171	6805	7.50	7.50	4.50	4.50	7.50
	179	6845	7.50	7.50	4.50	4.50	7.50
187	6885	7.50	7.50	4.50	4.50	7.50	
802.11ax HE80	135	6625	10.00	10.00	7.00	7.00	10.00
	151	6705	10.00	10.00	7.00	7.00	10.00
	167	6785	10.00	10.00	7.00	7.00	10.00
	183	6865	10.00	10.00	7.00	7.00	10.00
802.11ax HE160	143	6665	12.75	12.75	9.75	9.75	12.75
	175	6825	12.75	12.75	9.75	9.75	12.75

WLAN Tune-up Power (Tablet Mode)

UNII-8

Mode	Channel	Frequency	SISO Ant 0 Max Tune up	SISO Ant 1 Max Tune up	MIMO Ant 0 Tune up	MIMO Ant 1 Tune up	MIMO Ant 0+1 Max Tune up
802.11ax HE20	189	6895	4.25	4.25	1.25	1.25	4.25
	193	6915	4.25	4.25	1.25	1.25	4.25
	197	6935	4.25	4.25	1.25	1.25	4.25
	201	6955	4.25	4.25	1.25	1.25	4.25
	205	6975	4.25	4.25	1.25	1.25	4.25
	209	6995	4.25	4.25	1.25	1.25	4.25
	213	7015	4.25	4.25	1.25	1.25	4.25
	217	7035	4.25	4.25	1.25	1.25	4.25
	221	7055	4.25	4.25	1.25	1.25	4.25
	225	7075	4.25	4.25	1.25	1.25	4.25
	229	7095	4.25	4.25	1.25	1.25	4.25
	233	7115	-1.00	-1.00	-4.00	-4.00	-1.00
802.11ax HE40	195	6925	7.50	7.50	4.50	4.50	7.50
	203	6965	7.50	7.50	4.50	4.50	7.50
	211	7005	7.50	7.50	4.50	4.50	7.50
	219	7045	7.50	7.50	4.50	4.50	7.50
	227	7085	7.50	7.50	4.50	4.50	7.50
802.11ax HE80	199	6945	10.00	10.00	7.00	7.00	10.00
	215	7025	10.00	10.00	7.00	7.00	10.00
802.11ax HE160	207	6985	12.75	12.75	9.75	9.75	12.75