

16. Test System Verification Results

Date: 2022-04-04

Test Laboratory: KCTL Inc.

File Name: [750 MHz Verification Input Power 250 mW 2022-04-04.da52:0](#)**DUT: Dipole 750 MHz D750V3, Type: D750V3, Serial: D750V3 - SN:1183**Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 750$ MHz; $\sigma = 0.904$ S/m; $\epsilon_r = 43.098$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3928; ConvF(9.51, 9.51, 9.51) @ 750 MHz; ; Calibrated: 2022-03-03
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1586; Calibrated: 2021-04-27
- Phantom: ELI v5.0 sn1178; Type: QDOVA002AA; Serial: TP:1178
- Measurement SW: DASY52, Version 52.10 (4);

Configuration/750 MHz Verification Input Power 250 mW 2022-04-04/Area Scan (7x13x1):

Measurement grid: dx=15mm, dy=15mm

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

Configuration/750 MHz Verification Input Power 250 mW 2022-04-04/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 58.63 V/m; Power Drift = -0.09 dB

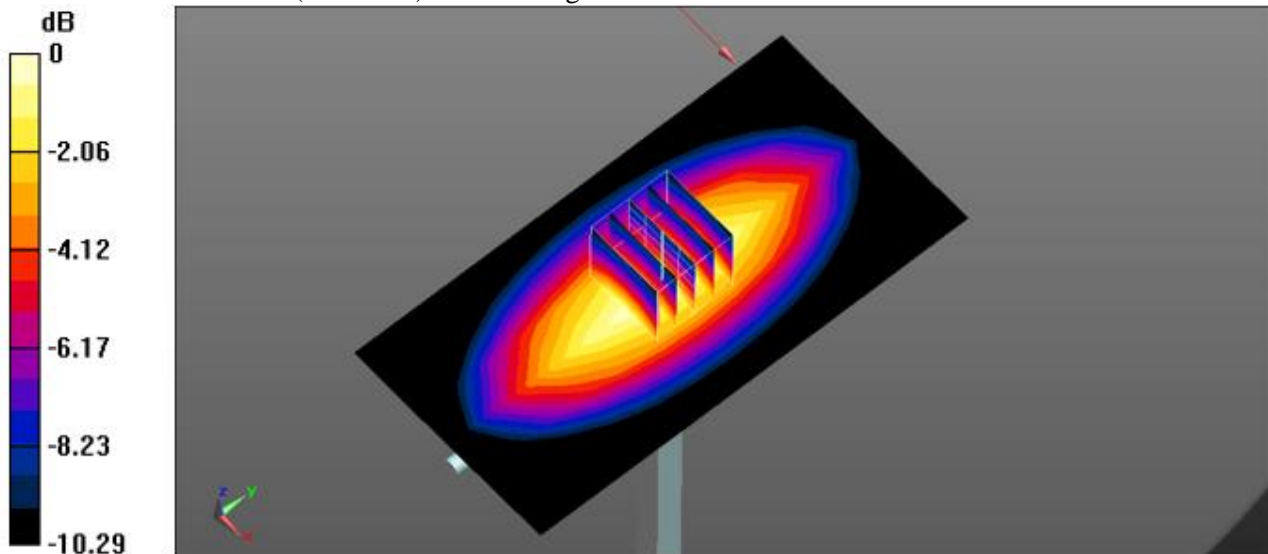
Peak SAR (extrapolated) = 3.11 W/kg

SAR(1 g) = 2.07 W/kg; SAR(10 g) = 1.37 W/kg

Smallest distance from peaks to all points 3 dB below = 17.9 mm

Ratio of SAR at M2 to SAR at M1 = 66.4%

Maximum value of SAR (measured) = 2.75 W/kg



0 dB = 2.75 W/kg = 4.39 dBW/kg

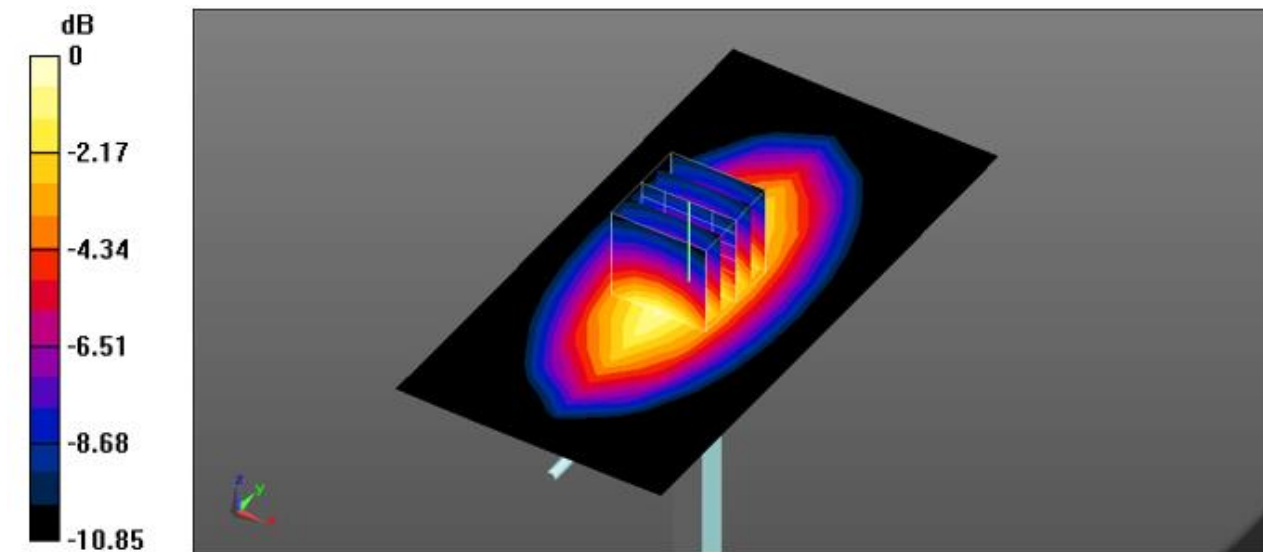
Date: 2022-03-30

Test Laboratory: KCTL Inc.

File Name: [850 MHz Verification Input Power 250 mW 2022-03-30.da52:0](#)**DUT: Dipole 850 MHz D850V2, Type: D850V2, Serial: D850V2 - SN:1006**Communication System: UID 0, CW (0); Frequency: 850 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 850$ MHz; $\sigma = 0.912$ S/m; $\epsilon_r = 40.599$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3928; ConvF(9.19, 9.19, 9.19) @ 850 MHz; ; Calibrated: 2022-03-03
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1586; Calibrated: 2021-04-27
- Phantom: ELI v5.0 sn1178; Type: QDOVA002AA; Serial: TP:1178
- Measurement SW: DASY52, Version 52.10 (4);

Configuration/850 MHz Verification Input Power 250 mW 2022-03-30/Area Scan (7x13x1):Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 3.37 W/kg**Configuration/850 MHz Verification Input Power 250 mW 2022-03-30/Zoom Scan (5x5x7)/Cube 0:**Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 63.75 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 3.90 W/kg
SAR(1 g) = 2.54 W/kg; SAR(10 g) = 1.66 W/kg
Smallest distance from peaks to all points 3 dB below = 16 mm
Ratio of SAR at M2 to SAR at M1 = 65.1%
Maximum value of SAR (measured) = 3.43 W/kg

0 dB = 3.43 W/kg = 5.35 dBW/kg

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Report No.:
KR22-SPF0015-B
Page (151) of (337)



Date: 2022-04-02

Test Laboratory: KCTL Inc.

File Name: [850 MHz Verification Input Power 250 mW 2022-04-02.da52:0](#)

DUT: Dipole 850 MHz D850V2, Type: D850V2, Serial: D850V2 - SN:1006

Communication System: UID 0, CW (0); Frequency: 850 MHz; Duty Cycle: 1:1
Medium parameters used (extrapolated): $f = 850$ MHz; $\sigma = 0.914$ S/m; $\epsilon_r = 41.416$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3928; ConvF(9.19, 9.19, 9.19) @ 850 MHz; ; Calibrated: 2022-03-03
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1586; Calibrated: 2021-04-27
- Phantom: ELI v5.0 sn1178; Type: QDOVA002AA; Serial: TP:1178
- Measurement SW: DASY52, Version 52.10 (4);

Configuration/850 MHz Verification Input Power 250 mW 2022-04-02/Area Scan (7x13x1):

Measurement grid: dx=15mm, dy=15mm

Info: [Extrapolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 3.26 W/kg

Configuration/850 MHz Verification Input Power 250 mW 2022-04-02/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 62.58 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.72 W/kg

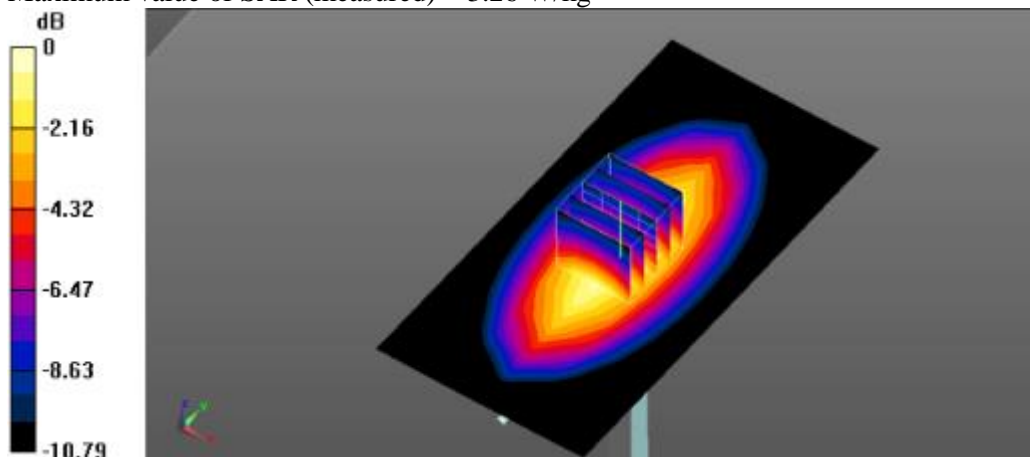
SAR(1 g) = 2.43 W/kg; SAR(10 g) = 1.59 W/kg

Smallest distance from peaks to all points 3 dB below = 16.1 mm

Ratio of SAR at M2 to SAR at M1 = 65.4%

Info: [Extrapolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 3.26 W/kg



0 dB = 3.26 W/kg = 5.13 dBW/kg

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KCTL-TIA002-004/5

KP22-01442

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Report No.:
KR22-SPF0015-B
Page (152) of (337)



Date: 2022-04-06

Test Laboratory: KCTL Inc.

File Name: [850 MHz Verification Input Power 250 mW 2022-04-06.da52:0](#)

DUT: Dipole 850 MHz D850V2, Type: D850V2, Serial: D850V2 - SN:1006

Communication System: UID 0, CW (0); Frequency: 850 MHz; Duty Cycle: 1:1
Medium parameters used (extrapolated): $f = 850$ MHz; $\sigma = 0.912$ S/m; $\epsilon_r = 41.403$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3928; ConvF(9.19, 9.19, 9.19) @ 850 MHz; ; Calibrated: 2022-03-03
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1586; Calibrated: 2021-04-27
- Phantom: ELI v5.0 sn1178; Type: QDOVA002AA; Serial: TP:1178
- Measurement SW: DASY52, Version 52.10 (4);

Configuration/850 MHz Verification Input Power 250 mW 2022-04-06/Area Scan (7x13x1):

Measurement grid: dx=15mm, dy=15mm

[Info: Extrapolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 3.28 W/kg

Configuration/850 MHz Verification Input Power 250 mW 2022-04-06/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 61.95 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.70 W/kg

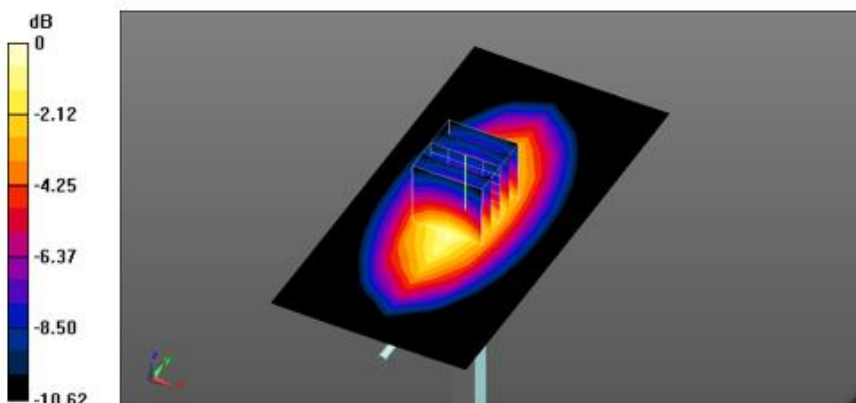
SAR(1 g) = 2.41 W/kg; SAR(10 g) = 1.58 W/kg

Smallest distance from peaks to all points 3 dB below = 16 mm

Ratio of SAR at M2 to SAR at M1 = 65.1%

[Info: Extrapolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 3.25 W/kg



0 dB = 3.25 W/kg = 5.12 dBW/kg

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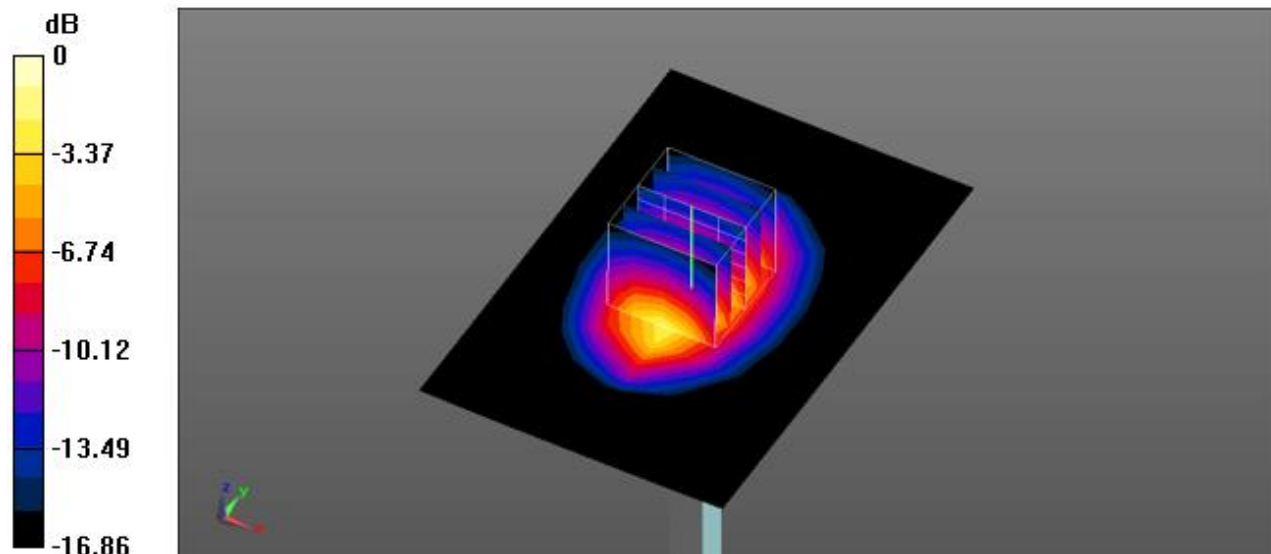
Date: 2022-03-31

Test Laboratory: KCTL Inc.

File Name: [1750 MHz Verification Input Power 250 mW 2022-03-31.da52:0](#)**DUT: Dipole 1750 MHz D1750V2, Type: D1750V2, Serial: D1750V2 - SN:1072**Communication System: UID 0, CW (0); Frequency: 1750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1750$ MHz; $\sigma = 1.396$ S/m; $\epsilon_r = 39.208$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3928; ConvF(8.01, 8.01, 8.01) @ 1750 MHz; ; Calibrated: 2022-03-03
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1586; Calibrated: 2021-04-27
- Phantom: ELI v5.0 sn1178; Type: QDOVA002AA; Serial: TP:1178
- Measurement SW: DASY52, Version 52.10 (4);

Configuration/1750 MHz Verification Input Power 250 mW 2022-03-31/Area Scan (7x10x1):Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 13.2 W/kg**Configuration/1750 MHz Verification Input Power 250 mW 2022-03-31/Zoom Scan (5x5x7)/Cube 0:**Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 105.2 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 17.7 W/kg
SAR(1 g) = 9.62 W/kg; SAR(10 g) = 5.12 W/kg
Smallest distance from peaks to all points 3 dB below = 11.2 mm
Ratio of SAR at M2 to SAR at M1 = 54.5%
Maximum value of SAR (measured) = 14.9 W/kg

0 dB = 14.9 W/kg = 11.73 dBW/kg

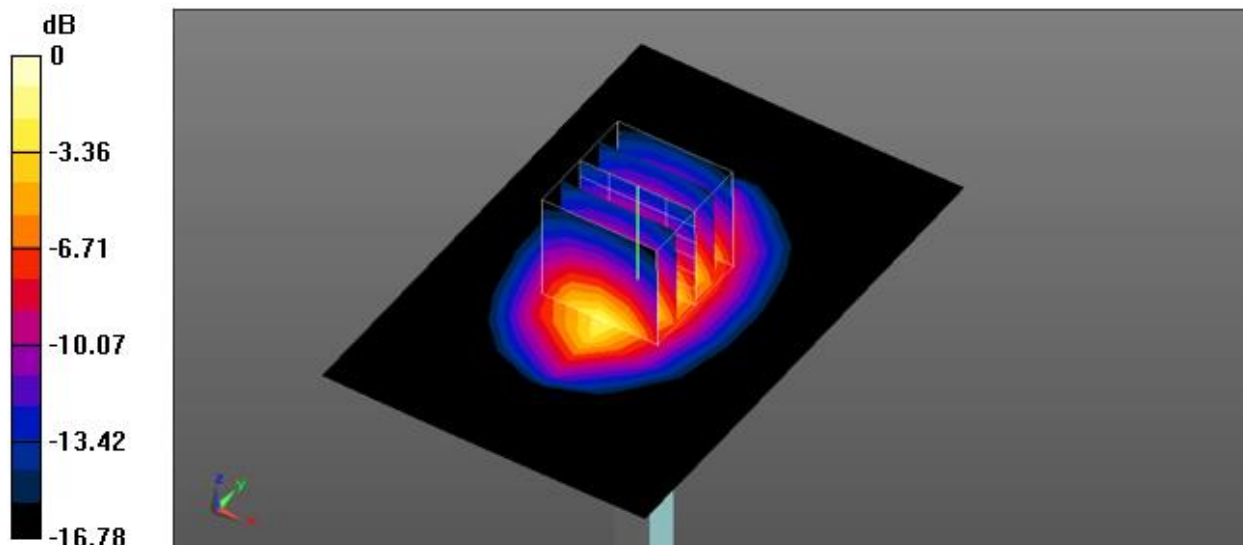
Date: 2022-04-01

Test Laboratory: KCTL Inc.

File Name: [1750 MHz Verification Input Power 250 mW 2022-04-01.da52:0](#)**DUT: Dipole 1750 MHz D1750V2, Type: D1750V2, Serial: D1750V2 - SN:1072**Communication System: UID 0, CW (0); Frequency: 1750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1750$ MHz; $\sigma = 1.381$ S/m; $\epsilon_r = 39.204$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3928; ConvF(8.01, 8.01, 8.01) @ 1750 MHz; ; Calibrated: 2022-03-03
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1586; Calibrated: 2021-04-27
- Phantom: ELI v5.0 sn1178; Type: QDOVA002AA; Serial: TP:1178
- Measurement SW: DASY52, Version 52.10 (4);

Configuration/1750 MHz Verification Input Power 250 mW 2022-04-01/Area Scan (7x10x1):Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 12.7 W/kg**Configuration/1750 MHz Verification Input Power 250 mW 2022-04-01/Zoom Scan (5x5x7)/Cube 0:**Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 103.4 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 16.4 W/kg
SAR(1 g) = 9.02 W/kg; SAR(10 g) = 4.82 W/kg
Smallest distance from peaks to all points 3 dB below = 11.2 mm
Ratio of SAR at M2 to SAR at M1 = 54.9%
Maximum value of SAR (measured) = 13.9 W/kg

0 dB = 13.9 W/kg = 11.43 dBW/kg

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Report No.:
KR22-SPF0015-B
Page (155) of (337)



Date: 2022-04-05

Test Laboratory: KCTL Inc.

File Name: [1750 MHz Verification Input Power 250 mW 2022-04-05.da52:0](#)

DUT: Dipole 1750 MHz D1750V2, Type: D1750V2, Serial: D1750V2 - SN:1072

Communication System: UID 0, CW (0); Frequency: 1750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1750$ MHz; $\sigma = 1.364$ S/m; $\epsilon_r = 40.537$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

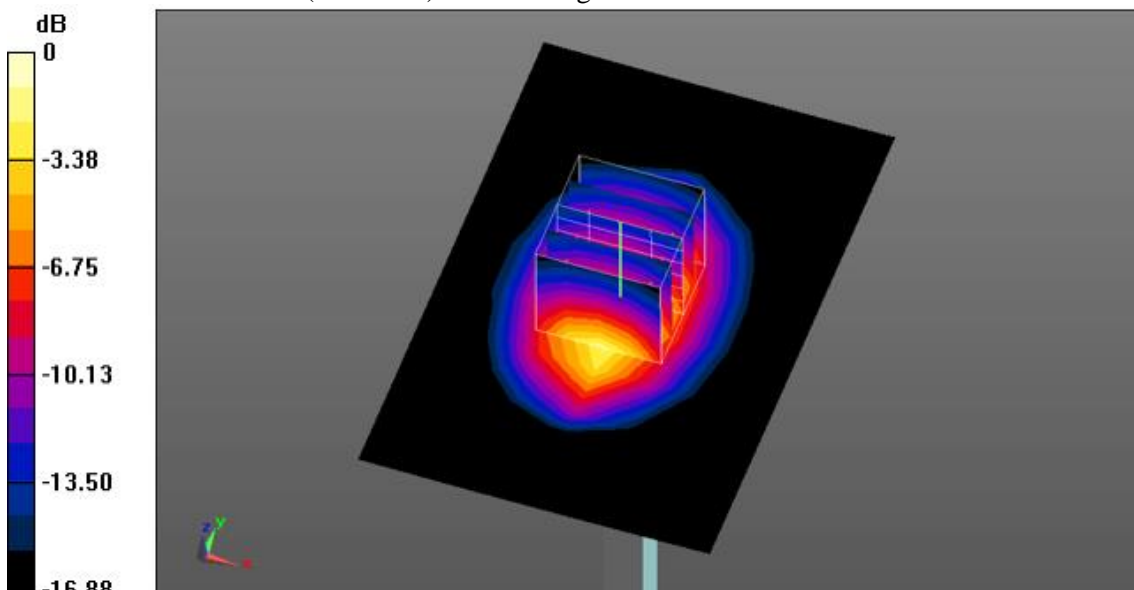
- Probe: EX3DV4 - SN3928; ConvF(8.01, 8.01, 8.01) @ 1750 MHz; ; Calibrated: 2022-03-03
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1586; Calibrated: 2021-04-27
- Phantom: ELI v5.0 sn1178; Type: QDOVA002AA; Serial: TP:1178
- Measurement SW: DASY52, Version 52.10 (4);

Configuration/1750 MHz Verification Input Power 250 mW 2022-04-05/Area Scan (7x10x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 13.1 W/kg

Configuration/1750 MHz Verification Input Power 250 mW 2022-04-05/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 105.3 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 17.2 W/kg
SAR(1 g) = 9.42 W/kg; SAR(10 g) = 5.02 W/kg
Smallest distance from peaks to all points 3 dB below = 10.7 mm
Ratio of SAR at M2 to SAR at M1 = 54.6%
Maximum value of SAR (measured) = 14.5 W/kg



0 dB = 14.5 W/kg = 11.61 dBW/kg

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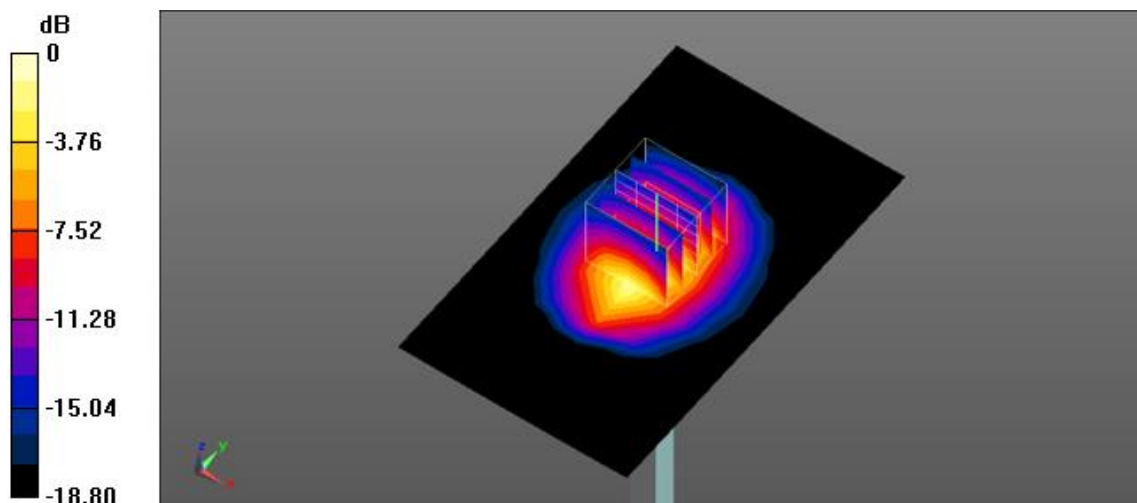
Date: 2022-03-28

Test Laboratory: KCTL Inc.

File Name: [1900 MHz Verification Input Power 250 mW 2022-03-28.da52:0](#)**DUT: Dipole 1900 MHz D1900V2, Type: D1900V2, Serial: D1900V2 - SN:5d160**Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.394$ S/m; $\epsilon_r = 38.681$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3928; ConvF(7.72, 7.72, 7.72) @ 1900 MHz; ; Calibrated: 2022-03-03
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1586; Calibrated: 2021-04-27
- Phantom: ELI v5.0 sn1178; Type: QDOVA002AA; Serial: TP:1178
- Measurement SW: DASY52, Version 52.10 (4);

Configuration/1900 MHz Verification Input Power 250 mW 2022-03-28/Area Scan (7x11x1):Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 15.8 W/kg**Configuration/1900 MHz Verification Input Power 250 mW 2022-03-28/Zoom Scan (5x5x7)/Cube 0:**Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 109.8 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 19.5 W/kg
SAR(1 g) = 10.1 W/kg; SAR(10 g) = 5.22 W/kg
Smallest distance from peaks to all points 3 dB below = 9.6 mm
Ratio of SAR at M2 to SAR at M1 = 52.2%
Maximum value of SAR (measured) = 15.6 W/kg

0 dB = 15.6 W/kg = 11.93 dBW/kg

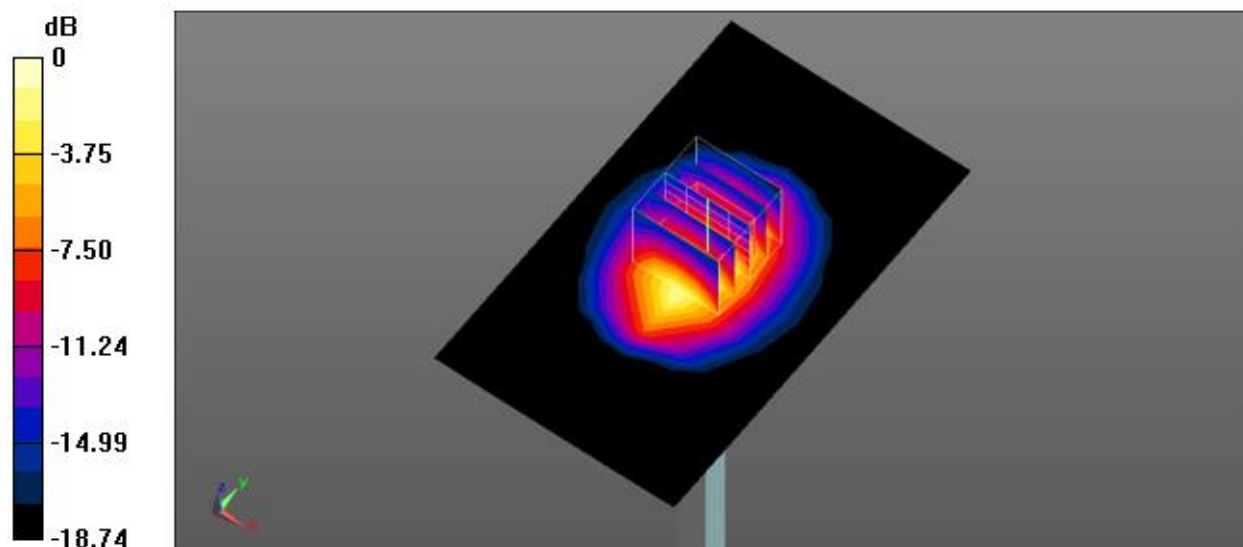
Date: 2022-03-29

Test Laboratory: KCTL Inc.

File Name: [1900 MHz Verification Input Power 250 mW 2022-03-29.da52:0](#)**DUT: Dipole 1900 MHz D1900V2, Type: D1900V2, Serial: D1900V2 - SN:5d160**Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.394$ S/m; $\epsilon_r = 38.68$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3928; ConvF(7.72, 7.72, 7.72) @ 1900 MHz; ; Calibrated: 2022-03-03
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1586; Calibrated: 2021-04-27
- Phantom: ELI v5.0 sn1178; Type: QDOVA002AA; Serial: TP:1178
- Measurement SW: DASY52, Version 52.10 (4);

Configuration/1900 MHz Verification Input Power 250 mW 2022-03-29/Area Scan (7x11x1):Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 15.4 W/kg**Configuration/1900 MHz Verification Input Power 250 mW 2022-03-29/Zoom Scan (5x5x7)/Cube 0:**Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 108.5 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 18.8 W/kg
SAR(1 g) = 9.7 W/kg; SAR(10 g) = 5.03 W/kg
Smallest distance from peaks to all points 3 dB below = 9.6 mm
Ratio of SAR at M2 to SAR at M1 = 51.8%
Maximum value of SAR (measured) = 15.1 W/kg

0 dB = 15.1 W/kg = 11.79 dBW/kg

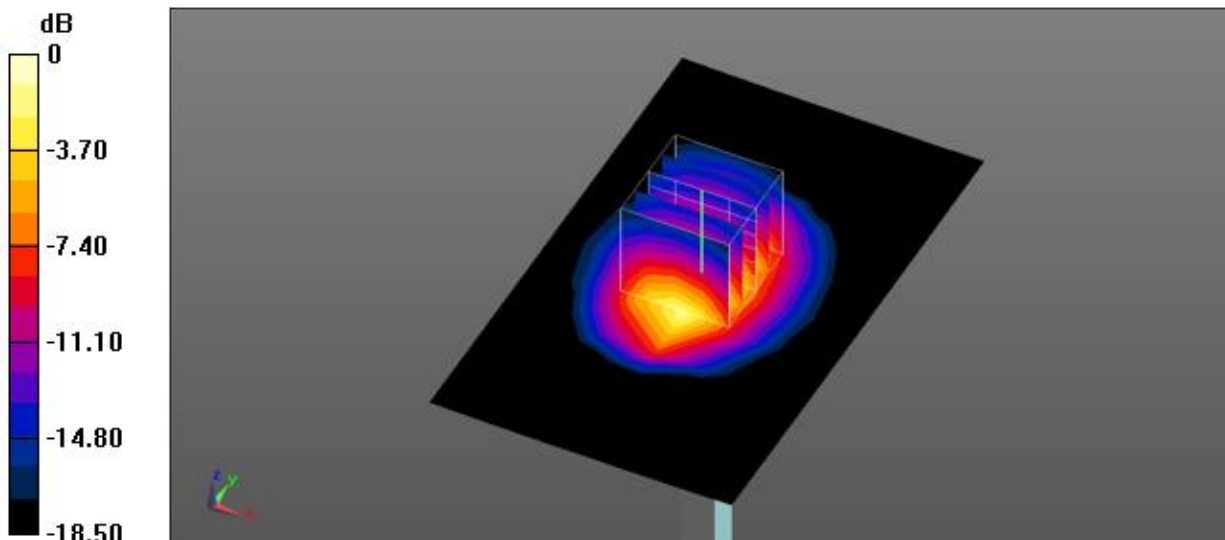
Date: 2022-04-02

Test Laboratory: KCTL Inc.

File Name: [1900 MHz Verification Input Power 250 mW 2022-04-02.da52:0](#)**DUT: Dipole 1900 MHz D1900V2, Type: D1900V2, Serial: D1900V2 - SN:5d160**Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.395$ S/m; $\epsilon_r = 39.199$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3928; ConvF(7.72, 7.72, 7.72) @ 1900 MHz; ; Calibrated: 2022-03-03
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1586; Calibrated: 2021-04-27
- Phantom: ELI v5.0 sn1178; Type: QDOVA002AA; Serial: TP:1178
- Measurement SW: DASY52, Version 52.10 (4);

Configuration/1900 MHz Verification Input Power 250 mW 2022-04-02/Area Scan (7x11x1):Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 14.7 W/kg**Configuration/1900 MHz Verification Input Power 250 mW 2022-04-02/Zoom Scan (5x5x7)/Cube 0:**Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 106.3 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 18.7 W/kg
SAR(1 g) = 9.82 W/kg; SAR(10 g) = 5.08 W/kg
Smallest distance from peaks to all points 3 dB below = 9.6 mm
Ratio of SAR at M2 to SAR at M1 = 52.6%
Maximum value of SAR (measured) = 15.4 W/kg

0 dB = 15.4 W/kg = 11.88 dBW/kg

Date: 2022-03-29

Test Laboratory: KCTL Inc.

File Name: [2450 MHz Verification Input Power 100 mW 2022-03-29.da5:0](#)

DUT: Dipole 2450 MHz D2450V2, Type: D2450V2, Serial: D2450V2 - SN:895

Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 2450$ MHz; $\sigma = 1.839$ S/m; $\epsilon_r = 38.178$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3865; ConvF(7.82, 7.82, 7.82) @ 2450 MHz; Calibrated: 2022-01-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn666; Calibrated: 2022-01-26
- Phantom: ELI V5.0 -3; Type: QD OVA 002 AA; Serial: 1173
- Measurement SW: DASY52, Version 52.10 (4);

Configuration/2450 MHz Verification Input Power 100 mW 2022-03-29/Area Scan (10x11x1):

Measurement grid: dx=12mm, dy=12mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 7.30 W/kg

Configuration/2450 MHz Verification Input Power 100 mW 2022-03-29/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 74.46 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 12.1 W/kg

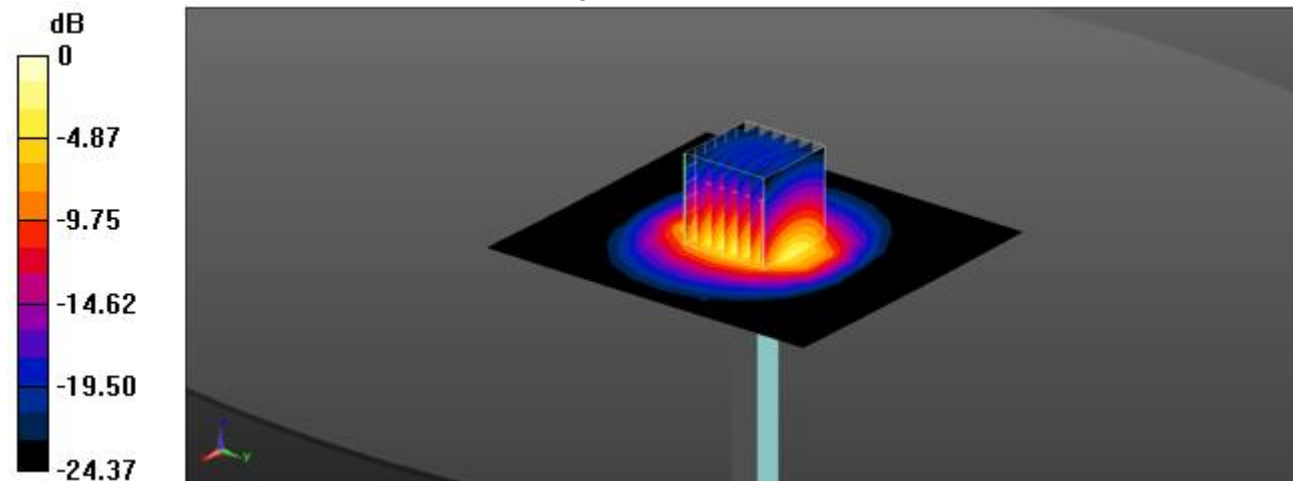
SAR(1 g) = 5.41 W/kg; SAR(10 g) = 2.42 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 43.7%

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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



0 dB = 9.50 W/kg = 9.78 dBW/kg

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Date: 2022-04-04

Test Laboratory: KCTL Inc.

File Name: [2450 MHz Verification Input Power 100 mW 2022-04-04.da5:0](#)**DUT: Dipole 2450 MHz D2450V2, Type: D2450V2, Serial: D2450V2 - SN:895**Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2450$ MHz; $\sigma = 1.754$ S/m; $\epsilon_r = 38.534$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3865; ConvF(7.82, 7.82, 7.82) @ 2450 MHz; Calibrated: 2022-01-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn666; Calibrated: 2022-01-26
- Phantom: ELI V5.0 -3; Type: QD OVA 002 AA; Serial: 1173
- Measurement SW: DASY52, Version 52.10 (4);

Configuration/2450 MHz Verification Input Power 100 mW 2022-04-04/Area Scan (10x11x1):

Measurement grid: dx=12mm, dy=12mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 6.90 W/kg

Configuration/2450 MHz Verification Input Power 100 mW 2022-04-04/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 72.80 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 11.4 W/kg

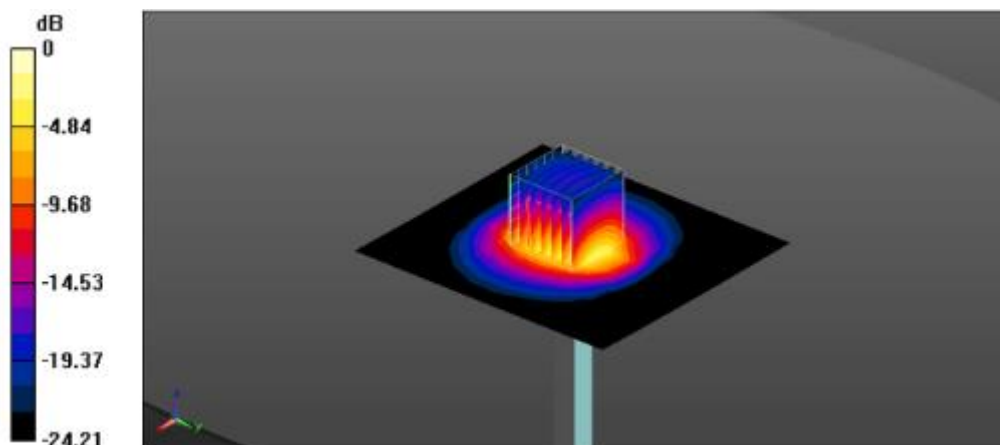
SAR(1 g) = 5.19 W/kg; SAR(10 g) = 2.35 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 44.8%

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 9.00 W/kg



0 dB = 9.00 W/kg = 9.54 dBW/kg

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Date: 2022-04-11

Test Laboratory: KCTL Inc.

File Name: [2450 MHz Verification Input Power 100 mW 2022-04-11.da5:0](#)**DUT: Dipole 2450 MHz D2450V2, Type: D2450V2, Serial: D2450V2 - SN:895**Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2450$ MHz; $\sigma = 1.804$ S/m; $\epsilon_r = 38.847$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3865; ConvF(7.82, 7.82, 7.82) @ 2450 MHz; Calibrated: 2022-01-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn666; Calibrated: 2022-01-26
- Phantom: ELI V5.0 -3; Type: QD OVA 002 AA; Serial: 1173
- Measurement SW: DASY52, Version 52.10 (4);

Configuration/2450 MHz Verification Input Power 100 mW 2022-04-11/Area Scan (10x11x1):

Measurement grid: dx=12mm, dy=12mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 7.26 W/kg

Configuration/2450 MHz Verification Input Power 100 mW 2022-04-11/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 72.78 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 11.4 W/kg

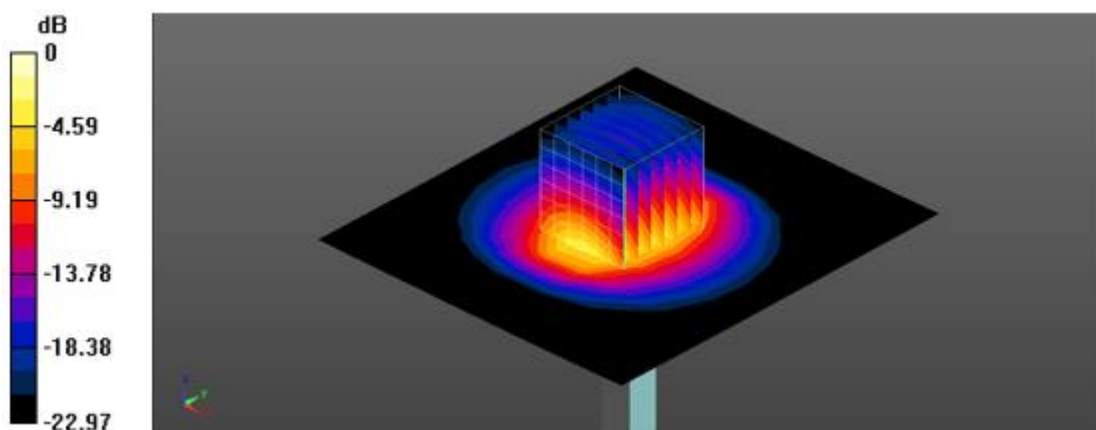
SAR(1 g) = 5.3 W/kg; SAR(10 g) = 2.43 W/kg

Smallest distance from peaks to all points 3 dB below = 9.5 mm

Ratio of SAR at M2 to SAR at M1 = 46.3%

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 9.07 W/kg



0 dB = 9.07 W/kg = 9.58 dBW/kg

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Report No.:
KR22-SPF0015-B
Page (162) of (337)



Date: 2022-03-25

Test Laboratory: KCTL Inc.

File Name: [2600 MHz Verification Input Power 100 mW 2022-03-25.da5:0](#)

DUT: Dipole 2600 MHz D2600V2, Type: D2600V2, Serial: D2600V2 - SN:1050

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2600$ MHz; $\sigma = 1.963$ S/m; $\epsilon_r = 37.938$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

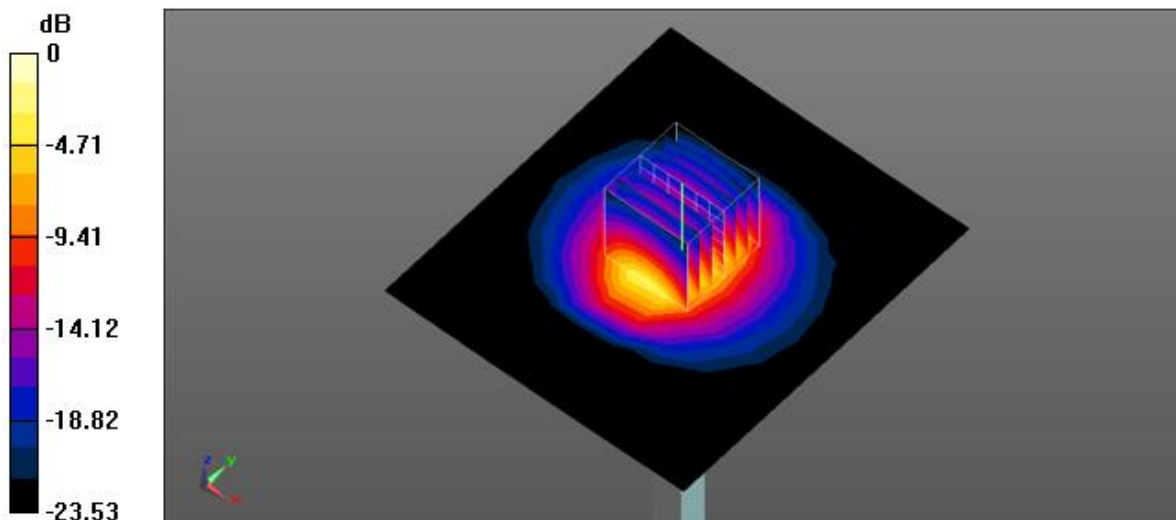
- Probe: EX3DV4 - SN3928; ConvF(7.17, 7.17, 7.17) @ 2600 MHz; ; Calibrated: 2022-03-03
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1586; Calibrated: 2021-04-27
- Phantom: ELI v5.0 sn1178; Type: QDOVA002AA; Serial: TP:1178
- Measurement SW: DASY52, Version 52.10 (4);

Configuration/2600 MHz Verification Input Power 100 mW 2022-03-25/Area Scan (10x11x1):

Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 7.83 W/kg

Configuration/2600 MHz Verification Input Power 100 mW 2022-03-25/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 72.51 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 12.5 W/kg
SAR(1 g) = 5.68 W/kg; SAR(10 g) = 2.53 W/kg
Smallest distance from peaks to all points 3 dB below = 9 mm
Ratio of SAR at M2 to SAR at M1 = 45.6%
Maximum value of SAR (measured) = 9.77 W/kg



0 dB = 9.77 W/kg = 9.90 dBW/kg

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Report No.:
KR22-SPF0015-B
Page (163) of (337)



Date: 4/5/2022

Test Laboratory: KCTL Inc.

File Name: [2600 MHz Verification Input Power 100 mW 2022-04-05.da5:0](#)

DUT: Dipole 2600 MHz D2600V2, Type: D2600V2, Serial: D2600V2 - SN:1050

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2600$ MHz; $\sigma = 1.9$ S/m; $\epsilon_r = 39.458$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

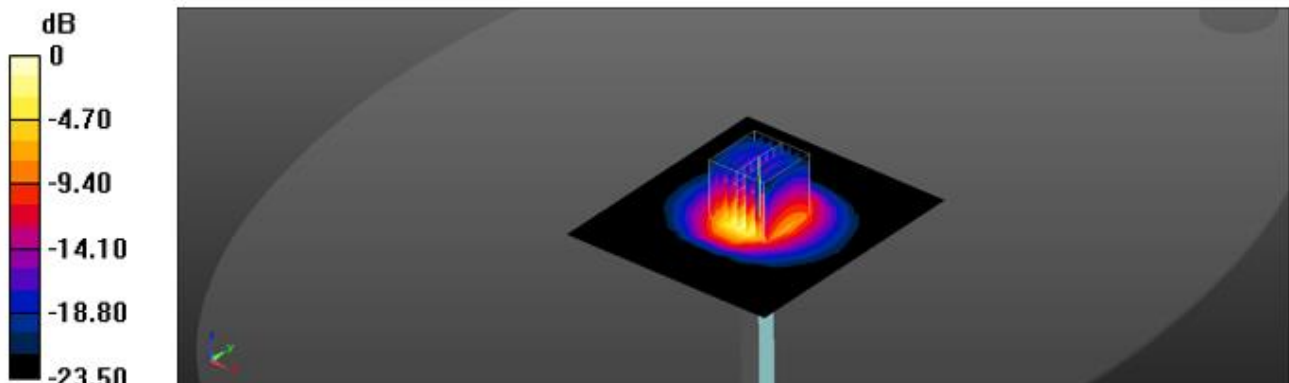
- Probe: EX3DV4 - SN7540; ConvF(7.26, 7.26, 7.26) @ 2600 MHz; ; Calibrated: 4/29/2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1587; Calibrated: 7/26/2021
- Phantom: ELI V8.0_Right; Type: QD OVA 004 Ax; Serial: 2098
- Measurement SW: DASY52, Version 52.10 (4);

Configuration/2600 MHz Verification Input Power 100 mW 2022-04-05/Area Scan (10x11x1):

Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 7.59 W/kg

Configuration/2600 MHz Verification Input Power 100 mW 2022-04-05/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 73.23 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 11.8 W/kg
SAR(1 g) = 5.46 W/kg; SAR(10 g) = 2.45 W/kg
Smallest distance from peaks to all points 3 dB below = 9 mm
Ratio of SAR at M2 to SAR at M1 = 46.4%
Maximum value of SAR (measured) = 9.39 W/kg



0 dB = 9.39 W/kg = 9.73 dBW/kg

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Report No.:
KR22-SPF0015-B
Page (164) of (337)



Date: 2022-03-31

Test Laboratory: KCTL Inc.

File Name: [5250 MHz Verification Input Power 100 mW 2022-03-31.da5:0](#)

DUT: Dipole D5GHzV2, Type: D5GHzV2, Serial: D5GHzV2 - SN:1134

Communication System: UID 0, CW (0); Frequency: 5250 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 5250$ MHz; $\sigma = 4.822$ S/m; $\epsilon_r = 36.636$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3865; ConvF(5.57, 5.57, 5.57) @ 5250 MHz; Calibrated: 2022-01-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn666; Calibrated: 2022-01-26
- Phantom: ELI V5.0 -2; Type: QD OVA 002 BB; Serial: 1220
- Measurement SW: DASY52, Version 52.10 (4);

Configuration/5250 MHz Verification Input Power 100 mW 2022-03-31/Area Scan (10x13x1):

Measurement grid: dx=10mm, dy=10mm

Info: [Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 15.0 W/kg

Configuration/5250 MHz Verification Input Power 100 mW 2022-03-31/Zoom Scan (8x8x7)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 66.99 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 34.0 W/kg

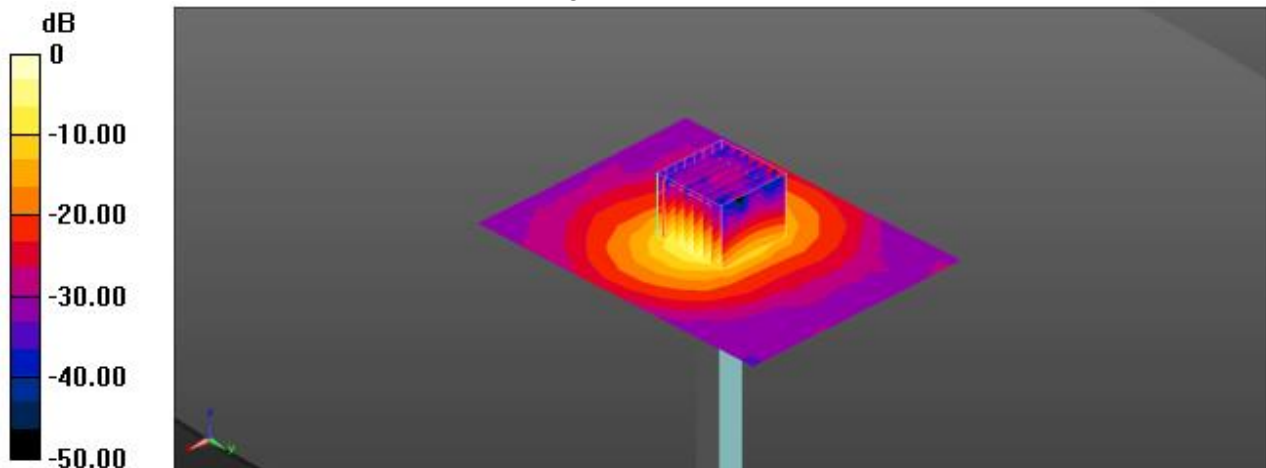
SAR(1 g) = 8.32 W/kg; SAR(10 g) = 2.4 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 64.3%

Info: [Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 21.0 W/kg



0 dB = 21.0 W/kg = 13.22 dBW/kg

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Report No.:
KR22-SPF0015-B
Page (165) of (337)



Date: 2022-04-01

Test Laboratory: KCTL Inc.

File Name: [5600 MHz Verification Input Power 100 mW 2022-04-01.da5:0](#)

DUT: Dipole D5GHzV2, Type: D5GHzV2, Serial: D5GHzV2 - SN:1134

Communication System: UID 0, CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5600$ MHz; $\sigma = 5.192$ S/m; $\epsilon_r = 34.707$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

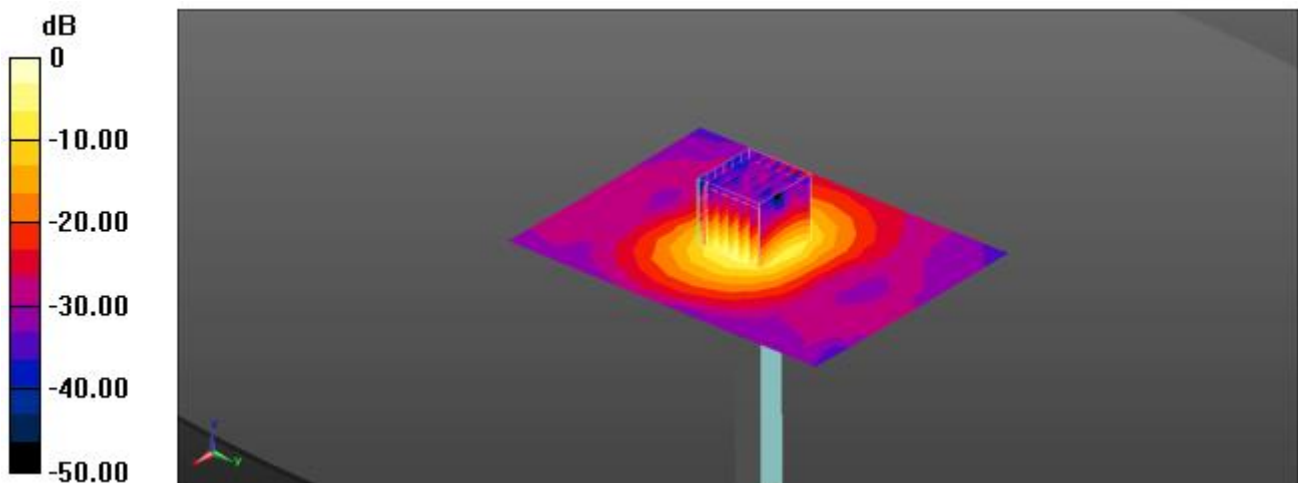
- Probe: EX3DV4 - SN3865; ConvF(5.03, 5.03, 5.03) @ 5600 MHz; Calibrated: 2022-01-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn666; Calibrated: 2022-01-26
- Phantom: ELI V5.0 -2; Type: QD OVA 002 BB; Serial: 1220
- Measurement SW: DASY52, Version 52.10 (4);

Configuration/5600 MHz Verification Input Power 100 mW 2022-04-01/Area Scan (10x13x1):

Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 17.5 W/kg

Configuration/5600 MHz Verification Input Power 100 mW 2022-04-01/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 66.44 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 38.0 W/kg
SAR(1 g) = 8.29 W/kg; SAR(10 g) = 2.41 W/kg
Smallest distance from peaks to all points 3 dB below = 7.6 mm
Ratio of SAR at M2 to SAR at M1 = 60.5%
Maximum value of SAR (measured) = 21.9 W/kg



0 dB = 21.9 W/kg = 13.40 dBW/kg

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Report No.:
KR22-SPF0015-B
Page (166) of (337)



Date: 2022-04-02

Test Laboratory: KCTL Inc.

File Name: [5800 MHz Verification Input Power 100 mW 2022-04-02.da5:0](#)

DUT: Dipole D5GHzV2, Type: D5GHzV2, Serial: D5GHzV2 - SN:1134

Communication System: UID 0, CW (0); Frequency: 5800 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5800$ MHz; $\sigma = 5.164$ S/m; $\epsilon_r = 35.978$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

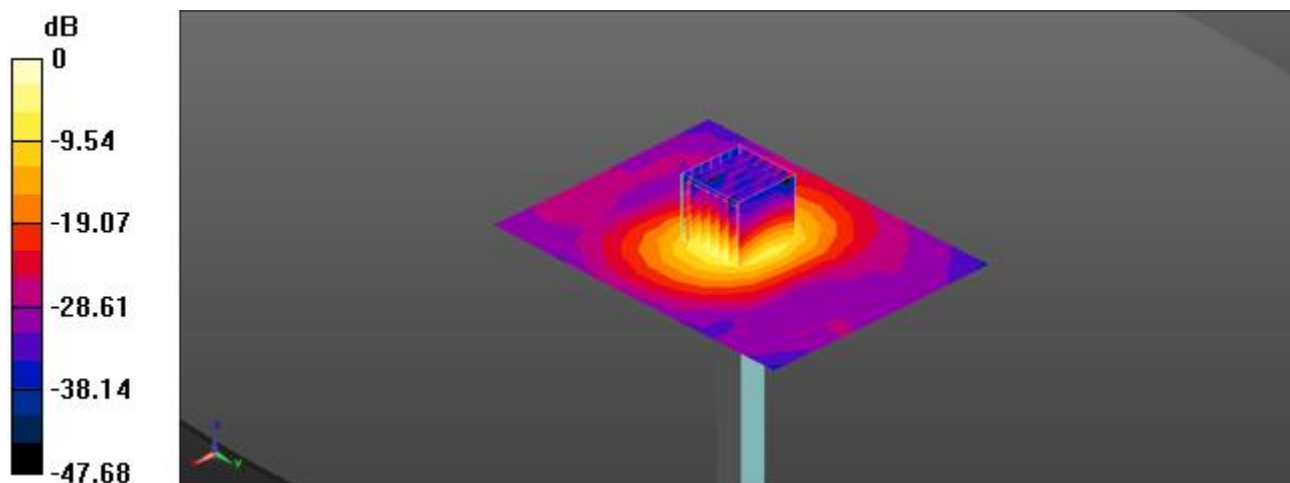
- Probe: EX3DV4 - SN3865; ConvF(5.03, 5.03, 5.03) @ 5800 MHz; Calibrated: 2022-01-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn666; Calibrated: 2022-01-26
- Phantom: ELI V5.0 -2; Type: QD OVA 002 BB; Serial: 1220
- Measurement SW: DASY52, Version 52.10 (4);

Configuration/5800 MHz Verification Input Power 100 mW 2022-04-02/Area Scan (10x13x1):

Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 16.5 W/kg

Configuration/5800 MHz Verification Input Power 100 mW 2022-04-02/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 64.45 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 36.0 W/kg
SAR(1 g) = 7.88 W/kg; SAR(10 g) = 2.28 W/kg
Smallest distance from peaks to all points 3 dB below = 7.6 mm
Ratio of SAR at M2 to SAR at M1 = 60.7%
Maximum value of SAR (measured) = 20.8 W/kg



0 dB = 20.8 W/kg = 13.18 dBW/kg

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Report No.:
KR22-SPF0015-B
Page (167) of (337)



Date: 2022-04-08

Test Laboratory: KCTL Inc.

File Name: [5800 MHz Verification Input Power 100 mW 2022-04-08.da5:0](#)

DUT: Dipole D5GHzV2, Type: D5GHzV2, Serial: D5GHzV2 - SN:1134

Communication System: UID 0, CW (0); Frequency: 5800 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5800$ MHz; $\sigma = 5.087$ S/m; $\epsilon_r = 35.642$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

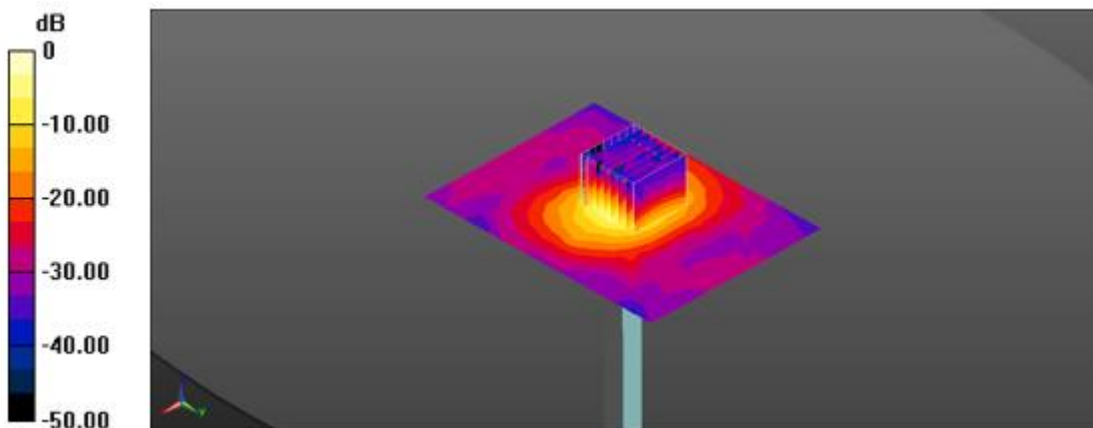
- Probe: EX3DV4 - SN3865; ConvF(5.03, 5.03, 5.03) @ 5800 MHz; Calibrated: 2022-01-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn666; Calibrated: 2022-01-26
- Phantom: ELI V5.0 -2; Type: QD OVA 002 BB; Serial: 1220
- Measurement SW: DASY52, Version 52.10 (4);

Configuration/5800 MHz Verification Input Power 100 mW 2022-04-08/Area Scan (10x13x1):

Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 18.6 W/kg

Configuration/5800 MHz Verification Input Power 100 mW 2022-04-08/Zoom Scan (8x8x7)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 60.73 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 37.6 W/kg
SAR(1 g) = 8.12 W/kg; SAR(10 g) = 2.33 W/kg
Smallest distance from peaks to all points 3 dB below = 7.6 mm
Ratio of SAR at M2 to SAR at M1 = 60.6%
Maximum value of SAR (measured) = 21.5 W/kg



0 dB = 21.5 W/kg = 13.32 dBW/kg

17. Test Results

1)

Date: 2022-04-06

Test Laboratory: KCTL Inc.

File Name: [1.GSM850_Body.da53:3](#)**DUT: SM-P619, Type: Tablet, Serial: R32T2001G1Z**Communication System: UID 0, GSM850_2TX (0); Frequency: 824.2 MHz; Duty Cycle: 1:4.14954
Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.892$ S/m; $\epsilon_r = 41.623$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3928; ConvF(9.19, 9.19, 9.19) @ 824.2 MHz; ; Calibrated: 2022-03-03
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1586; Calibrated: 2021-04-27
- Phantom: ELI v5.0 sn1178; Type: QDOVA002AA; Serial: TP:1178
- Measurement SW: DASY52, Version 52.10 (4);

Configuration 1/GSM850_GPRS 2Tx_CH128_Rear_14 mm/Area Scan (11x8x1): Measurement grid:
dx=15mm, dy=15mm

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

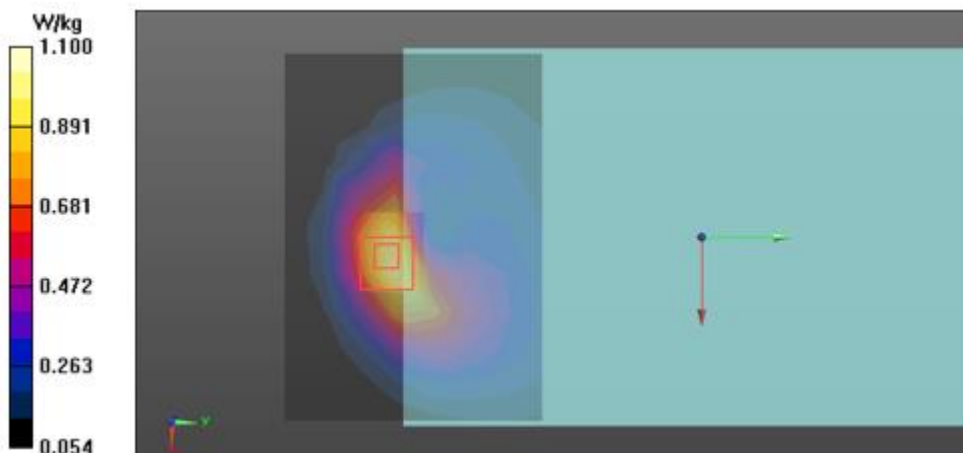
Configuration 1/GSM850_GPRS 2Tx_CH128_Rear_14 mm/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.60 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.28 W/kg

SAR(1 g) = 0.796 W/kg; SAR(10 g) = 0.503 W/kg

Maximum value of SAR (measured) = 1.10 W/kg



2)

Date: 2022-03-29

Test Laboratory: KCTL Inc.
File Name: [1.GSM1900 Body.da53:0](#)

DUT: SM-P619, Type: Tablet, Serial: R32T2001G1Z

Communication System: UID 0, GSM 1900_2Tx (0); Frequency: 1909.8 MHz; Duty Cycle: 1:4.14954
 Medium parameters used (extrapolated): $f = 1909.8$ MHz; $\sigma = 1.401$ S/m; $\epsilon_r = 38.625$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3928; ConvF(7.72, 7.72, 7.72) @ 1909.8 MHz; ; Calibrated: 2022-03-03
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1586; Calibrated: 2021-04-27
- Phantom: ELI v5.0 sn1178; Type: QDOVA002AA; Serial: TP:1178
- Measurement SW: DASY52, Version 52.10 (4);

Configuration/GSM1900_GPRS 2Tx_CH810_Rear_14 mm/Area Scan (11x7x1): Measurement grid: dx=15mm, dy=15mm

[Info: Extrapolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.917 W/kg

Configuration/GSM1900_GPRS 2Tx_CH810_Rear_14 mm/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

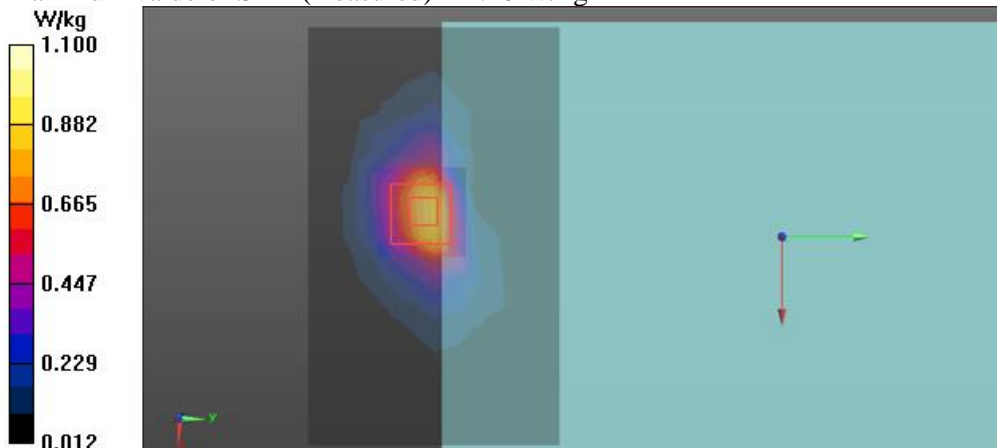
Reference Value = 17.17 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 1.35 W/kg

SAR(1 g) = 0.717 W/kg; SAR(10 g) = 0.370 W/kg

[Info: Extrapolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.10 W/kg



3)

Date: 2022-03-28

Test Laboratory: KCTL Inc.

File Name: [1.WCDMA FDD II Body.da53:0](#)

DUT: SM-P619, Type: Tablet, Serial: R32T2001G1Z

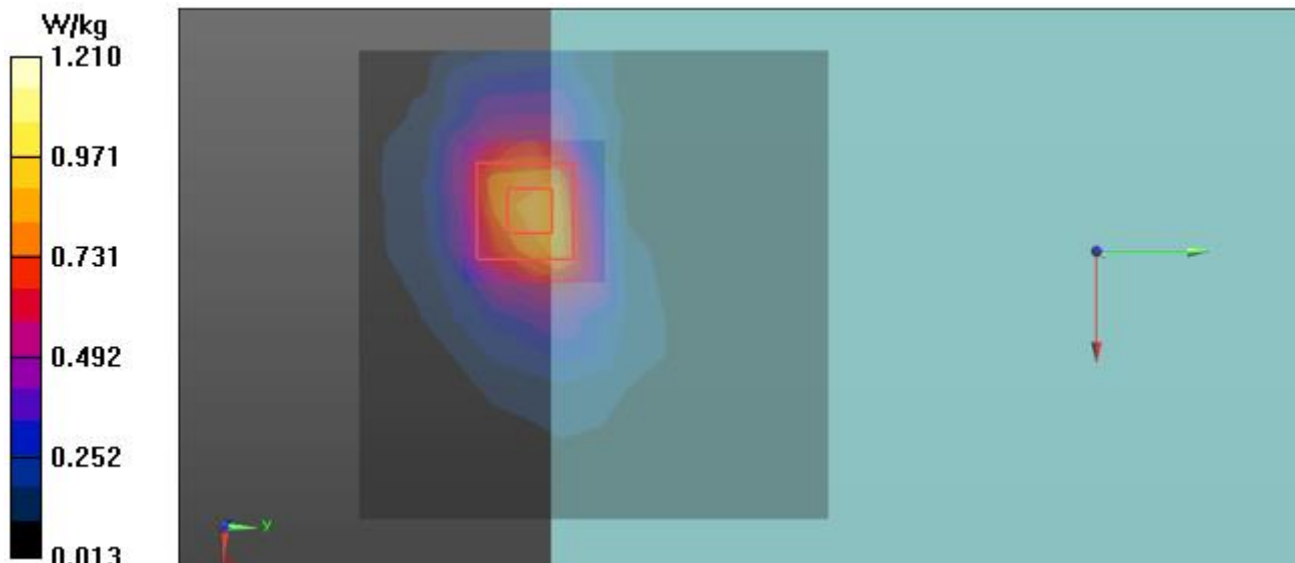
Communication System: UID 0, W-CDMA 1900 (Band 2) (0); Frequency: 1907.6 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 1907.6 \text{ MHz}$; $\sigma = 1.401 \text{ S/m}$; $\epsilon_r = 38.637$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3928; ConvF(7.72, 7.72, 7.72) @ 1907.6 MHz; ; Calibrated: 2022-03-03
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1586; Calibrated: 2021-04-27
- Phantom: ELI v5.0 sn1178; Type: QDOVA002AA; Serial: TP:1178
- Measurement SW: DASY52, Version 52.10 (4);

Configuration/WCDMA FDD II_CH9538_Rear_14 mm/Area Scan (8x8x1): Measurement grid:
 $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 0.857 W/kg

Configuration/WCDMA FDD II_CH9538_Rear_14 mm/Zoom Scan (5x5x7)/Cube 0: Measurement grid:
 $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 30.41 V/m; Power Drift = 0.04 dB
 Peak SAR (extrapolated) = 1.47 W/kg
SAR(1 g) = 0.790 W/kg; SAR(10 g) = 0.416 W/kg
 Maximum value of SAR (measured) = 1.21 W/kg



4)

Date: 2022-04-01

Test Laboratory: KCTL Inc.

File Name: [1.WCDMA FDD IV Body.da53:0](#)

DUT: SM-P619, Type: Tablet, Serial: R32T2001G7L

Communication System: UID 0, W-CDMA 1700 (Band4) (0); Frequency: 1752.6 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 1752.6$ MHz; $\sigma = 1.383$ S/m; $\epsilon_r = 39.18$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

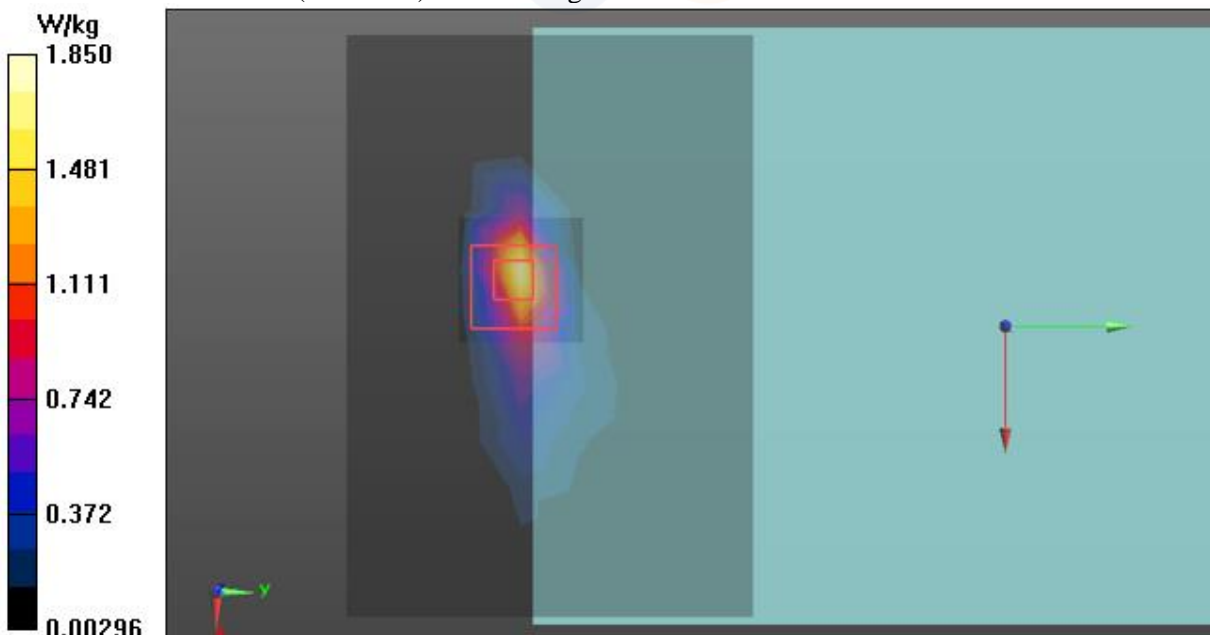
- Probe: EX3DV4 - SN3928; ConvF(8.01, 8.01, 8.01) @ 1752.6 MHz; ; Calibrated: 2022-03-03
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1586; Calibrated: 2021-04-27
- Phantom: ELI v5.0 sn1178; Type: QDOVA002AA; Serial: TP:1178
- Measurement SW: DASY52, Version 52.10 (4);

Configuration/WCDMA FDD IV_CH1513_Rear_0 mm Grip Sensor On/Area Scan (11x8x1):

Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 1.81 W/kg

Configuration/WCDMA FDD IV_CH1513_Rear_0 mm Grip Sensor On/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 31.83 V/m; Power Drift = 0.18 dB
 Peak SAR (extrapolated) = 2.22 W/kg
SAR(1 g) = 0.851 W/kg; SAR(10 g) = 0.348 W/kg
 Maximum value of SAR (measured) = 1.85 W/kg



5)

Date: 2022-04-02

Test Laboratory: KCTL Inc.

File Name: [1.WCDMA FDD V Body.da53:1](#)

DUT: SM-P619, Type: Tablet, Serial: R32T2001G1Z

Communication System: UID 0, W-CDMA 850 (Band 5) (0); Frequency: 836.6 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.901 \text{ S/m}$; $\epsilon_r = 41.562$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3928; ConvF(9.19, 9.19, 9.19) @ 836.6 MHz; ; Calibrated: 2022-03-03
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1586; Calibrated: 2021-04-27
- Phantom: ELI v5.0 sn1178; Type: QDOVA002AA; Serial: TP:1178
- Measurement SW: DASY52, Version 52.10 (4);

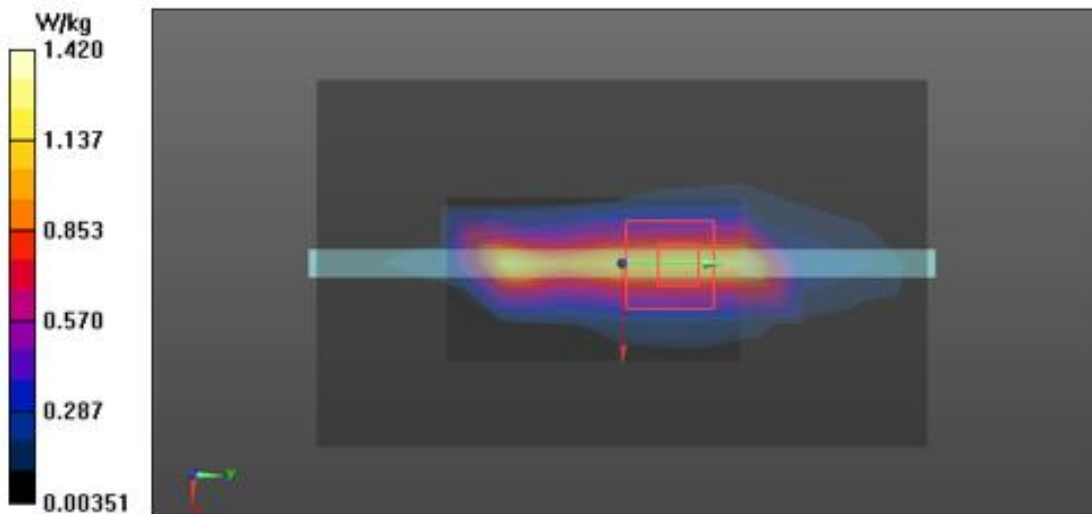
Configuration 3/WCDMA FDD V_CH4183_Top_0 mm Grip Sensor on/Area Scan (7x11x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 1.22 W/kg

Configuration 3/WCDMA FDD V_CH4183_Top_0 mm Grip Sensor on/Zoom Scan (6x10x7)/Cube 0:

Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 10.80 V/m; Power Drift = -0.15 dB
 Peak SAR (extrapolated) = 2.32 W/kg
SAR(1 g) = 0.646 W/kg; SAR(10 g) = 0.328 W/kg

Maximum value of SAR (measured) = 1.42 W/kg



6)

Date: 2022-03-28

Test Laboratory: KCTL Inc.

File Name: [1.LTE Band 2 QPSK 20 MHz Body.da53:0](#)

DUT: SM-P619, Type: Tablet, Serial: R32T2001G1Z

Communication System: UID 0, LTE Band 2 (0); Frequency: 1880 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.384$ S/m; $\epsilon_r = 38.762$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3928; ConvF(7.72, 7.72, 7.72) @ 1880 MHz; ; Calibrated: 2022-03-03
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1586; Calibrated: 2021-04-27
- Phantom: ELI v5.0 sn1178; Type: QDOVA002AA; Serial: TP:1178
- Measurement SW: DASY52, Version 52.10 (4);

Configuration/LTE Band 2_QPSK_20 MHz_1RB_0offset_CH18900_Rear_14 mm/Area Scan (11x8x1):

Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 0.854 W/kg

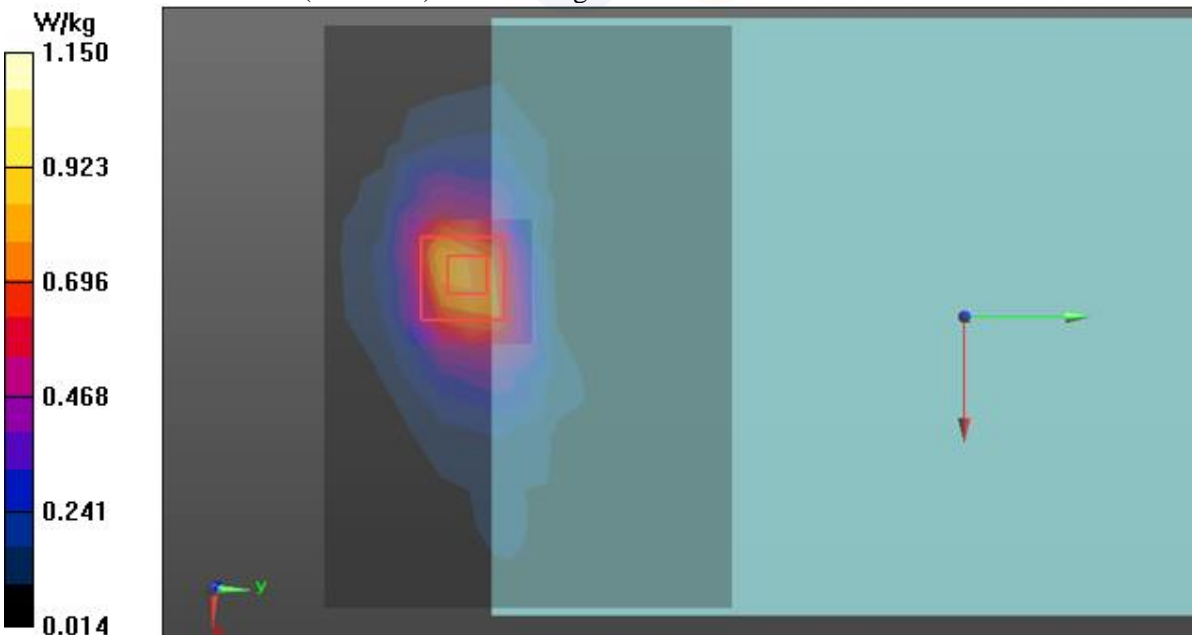
Configuration/LTE Band 2_QPSK_20 MHz_1RB_0offset_CH18900_Rear_14 mm/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 29.88 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.41 W/kg

SAR(1 g) = 0.757 W/kg; SAR(10 g) = 0.400 W/kg

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



7)

Date: 2022-03-30

Test Laboratory: KCTL Inc.

File Name: [1.LTE Band 5 QPSK 10 MHz Body.da53:0](#)

DUT: SM-P619, Type: Tablet, Serial: R32T2001G7L

Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.899$ S/m; $\epsilon_r = 40.793$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3928; ConvF(9.19, 9.19, 9.19) @ 836.5 MHz; ; Calibrated: 2022-03-03
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1586; Calibrated: 2021-04-27
- Phantom: ELI v5.0 sn1178; Type: QDOVA002AA; Serial: TP:1178
- Measurement SW: DASY52, Version 52.10 (4);

Configuration/LTE Band 5_QPSK_10 MHz_1RB_0offset_CH20525_Rear_14 mm/Area Scan (8x8x1):
 Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.533 W/kg

Configuration/LTE Band 5_QPSK_10 MHz_1RB_0offset_CH20525_Rear_14 mm/Zoom Scan (6x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

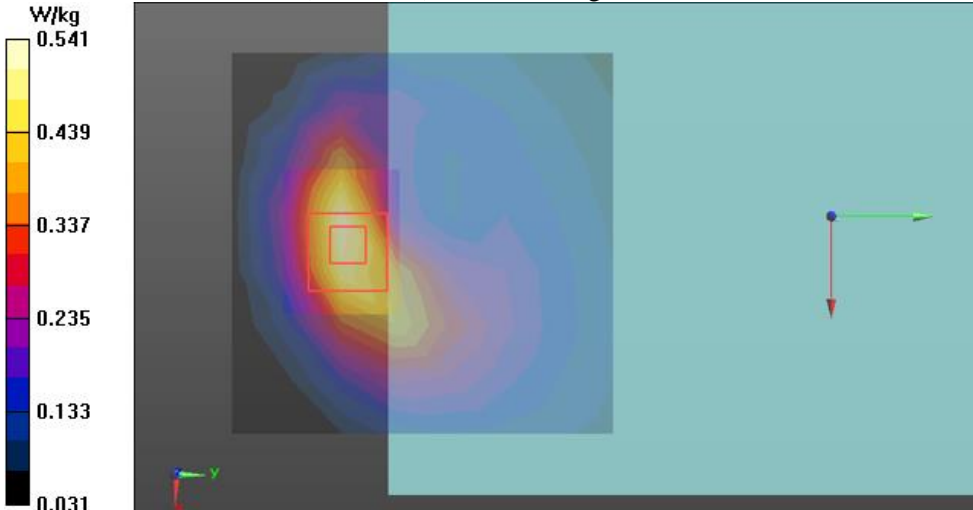
Reference Value = 15.81 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.645 W/kg

SAR(1 g) = 0.406 W/kg; SAR(10 g) = 0.258 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.541 W/kg



8)

Date: 2022-04-04

Test Laboratory: KCTL Inc.

File Name: [2.LTE Band 12 QPSK 10 MHz Body Grip.da53:1](#)

DUT: SM-P619, Type: Tablet, Serial: R32T2001G7L

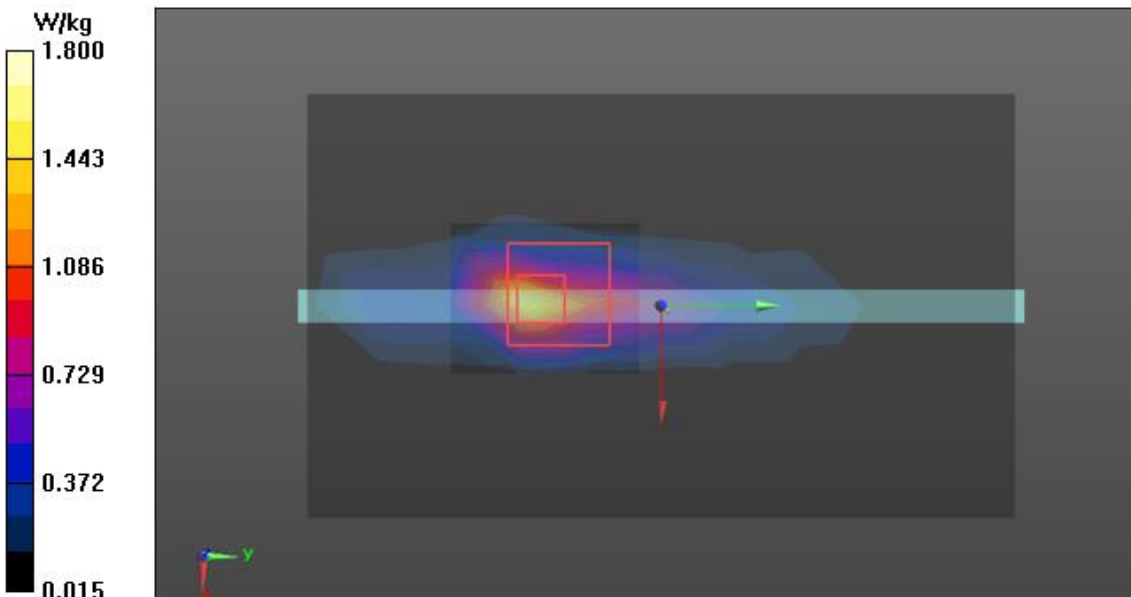
Communication System: UID 0, LTE Band 12 (0); Frequency: 707.5 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 707.5 \text{ MHz}$; $\sigma = 0.869 \text{ S/m}$; $\epsilon_r = 43.723$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3928; ConvF(9.51, 9.51, 9.51) @ 707.5 MHz; ; Calibrated: 2022-03-03
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1586; Calibrated: 2021-04-27
- Phantom: ELI v5.0 sn1178; Type: QDOVA002AA; Serial: TP:1178
- Measurement SW: DASY52, Version 52.10 (4);

Configuration 3/LTE Band 12_QPSK_10 MHz_25RB_0offset_CH23095_Top_0 mm Grip Sensor on/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 1.63 W/kg

Configuration 3/LTE Band 12_QPSK_10 MHz_25RB_0offset_CH23095_Top_0 mm Grip Sensor on/Zoom Scan (5x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 31.65 V/m; Power Drift = 0.10 dB
 Peak SAR (extrapolated) = 2.77 W/kg
SAR(1 g) = 0.650 W/kg; SAR(10 g) = 0.264 W/kg
 Maximum value of SAR (measured) = 1.80 W/kg



9)

Date: 4/5/2022

Test Laboratory: KCTL Inc.

File Name: [1.LTE Band 41 QPSK 20 MHz Body.da53:0](#)

DUT: SM-P619, Type: Tablet, Serial: R32T2001G1Z

Communication System: UID 0, LTE Band 41 (0); Frequency: 2680 MHz; Duty Cycle: 1:1.58016
 Medium parameters used: $f = 2680$ MHz; $\sigma = 1.983$ S/m; $\epsilon_r = 39.147$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

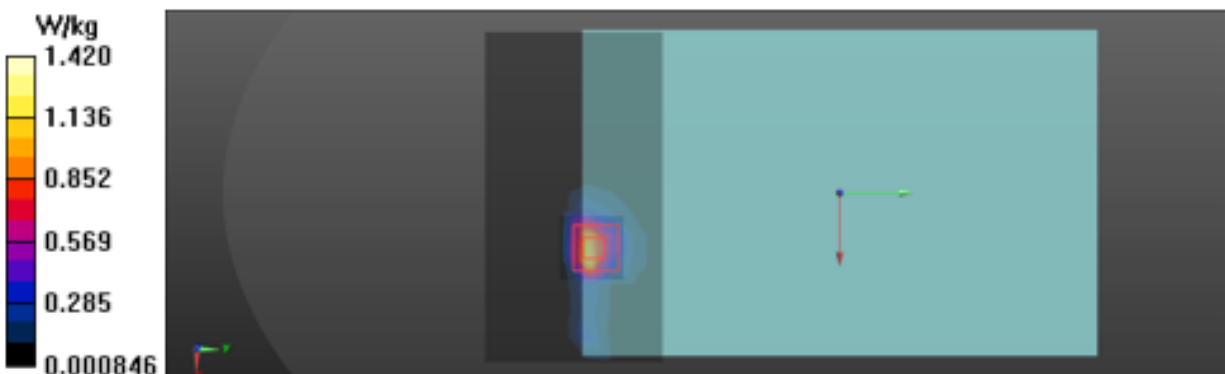
DASY5 Configuration:

- Probe: EX3DV4 - SN7540; ConvF(7.26, 7.26, 7.26) @ 2680 MHz; ; Calibrated: 4/29/2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1587; Calibrated: 7/26/2021
- Phantom: ELI V8.0_Right; Type: QD OVA 004 Ax; Serial: 2098
- Measurement SW: DASY52, Version 52.10 (4);

Configuration/LTE Band 41_QPSK_20 MHz_50RB_24offset_CH41490_Rear_0 mm Grip Sensor on/Area Scan (14x8x1): Measurement grid: dx=12mm, dy=12mm
 Maximum value of SAR (measured) = 1.14 W/kg

Configuration/LTE Band 41_QPSK_20 MHz_50RB_24offset_CH41490_Rear_0 mm Grip Sensor on/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 23.92 V/m; Power Drift = 0.04 dB
 Peak SAR (extrapolated) = 2.13 W/kg
SAR(1 g) = 0.685 W/kg; SAR(10 g) = 0.249 W/kg

Maximum value of SAR (measured) = 1.42 W/kg



10)

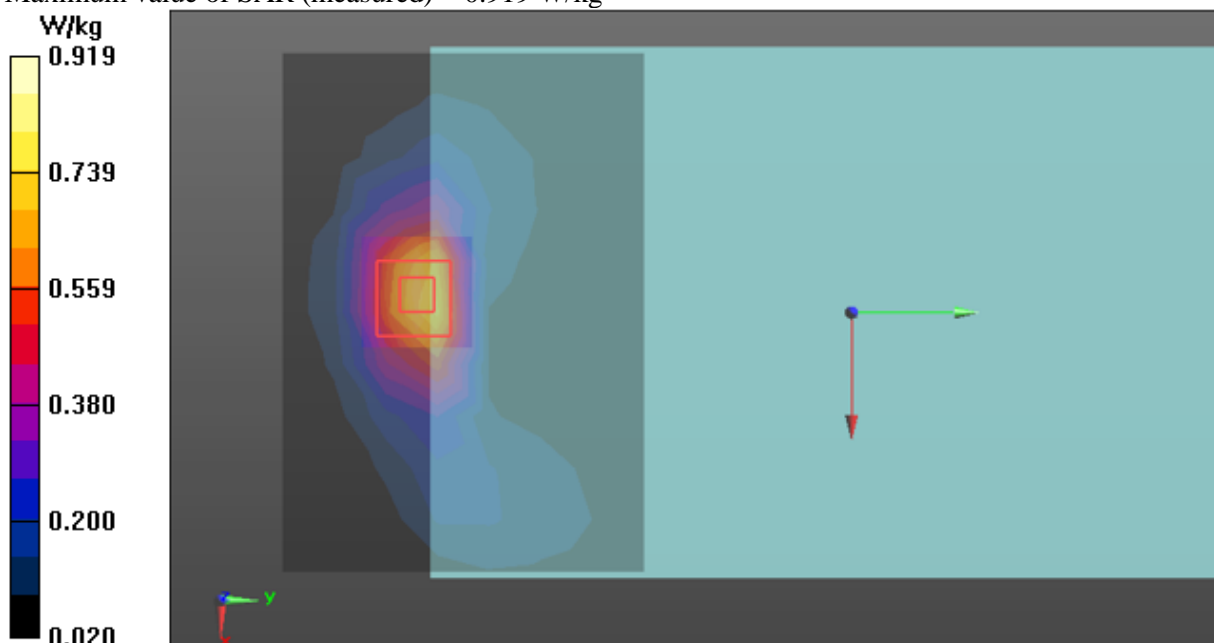
Date: 2022-03-31

Test Laboratory: KCTL Inc.

File Name: [1.LTE Band 66 QPSK 20 MHz Body.da53:0](#)**DUT: SM-P619, Type: Tablet, Serial: R32T2001G1Z**Communication System: UID 0, LTE Band 66 (0); Frequency: 1720 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1720$ MHz; $\sigma = 1.366$ S/m; $\epsilon_r = 39.341$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3928; ConvF(8.01, 8.01, 8.01) @ 1720 MHz; ; Calibrated: 2022-03-03
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1586; Calibrated: 2021-04-27
- Phantom: ELI v5.0 sn1178; Type: QDOVA002AA; Serial: TP:1178
- Measurement SW: DASY52, Version 52.10 (4);

Configuration/LTE Band 66_QPSK_20 MHz_1RB_99offset_CH132072_Rear_14 mm/Area Scan (11x8x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.760 W/kg**Configuration/LTE Band 66_QPSK_20 MHz_1RB_99offset_CH132072_Rear_14 mm/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.031 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 1.08 W/kg
SAR(1 g) = 0.633 W/kg; SAR(10 g) = 0.354 W/kg
Maximum value of SAR (measured) = 0.919 W/kg

11)

Date: 2022-04-11

Test Laboratory: KCTL Inc.

File Name: [1. 2.4 GHz 802.11 WIFI1.da53:0](#)

DUT: SM-P619, Type: Tablet, Serial: R32T3000QCZ

Communication System: UID 0, 2.4GWLAN (0); Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.76$ S/m; $\epsilon_r = 38.98$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3865;ConvF(7.82, 7.82, 7.82) @ 2412 MHz; Calibrated: 2022-01-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn666; Calibrated: 2022-01-26
- Phantom: ELI V5.0 -3; Type: QD OVA 002 AA; Serial: 1173
- Measurement SW: DASY52, Version 52.10 (4);

Configuration/802.11 b_WIFI1_CH1_Rear_0 mm Sensor On/Area Scan (11x11x1): Measurement grid:

$dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.585 W/kg

Configuration/802.11 b_WIFI1_CH1_Rear_0 mm Sensor On/Zoom Scan (7x8x7)/Cube 0: Measurement

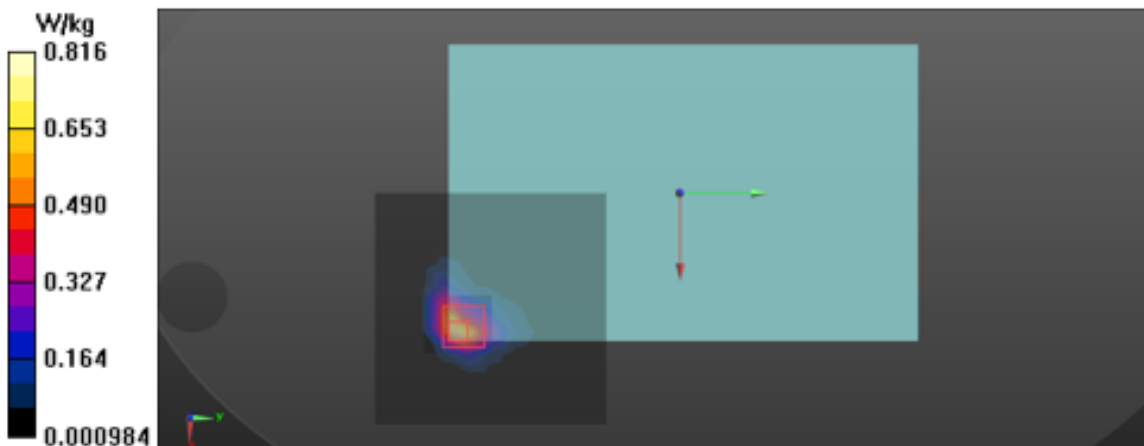
grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 19.58 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.390 W/kg; SAR(10 g) = 0.170 W/kg

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



12)

Date: 2022-04-11

Test Laboratory: KCTL Inc.

File Name: [2. 2.4 GHz 802.11 WIFI2.da53:1](#)

DUT: SM-P619, Type: Tablet, Serial: R32T3000QCZ

Communication System: UID 0, 2.4GWLAN (0); Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.816$ S/m; $\epsilon_r = 38.807$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3865;ConvF(7.82, 7.82, 7.82) @ 2462 MHz; Calibrated: 2022-01-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn666; Calibrated: 2022-01-26
- Phantom: ELI V5.0 -3; Type: QD OVA 002 AA; Serial: 1173
- Measurement SW: DASY52, Version 52.10 (4);

Configuration 2/802.11 b_WIFI2_CH11_Left_0 mm Sensor On/Area Scan (8x12x1): Measurement grid:

$dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.155 W/kg

Configuration 2/802.11 b_WIFI2_CH11_Left_0 mm Sensor On/Zoom Scan (7x8x7)/Cube 0:

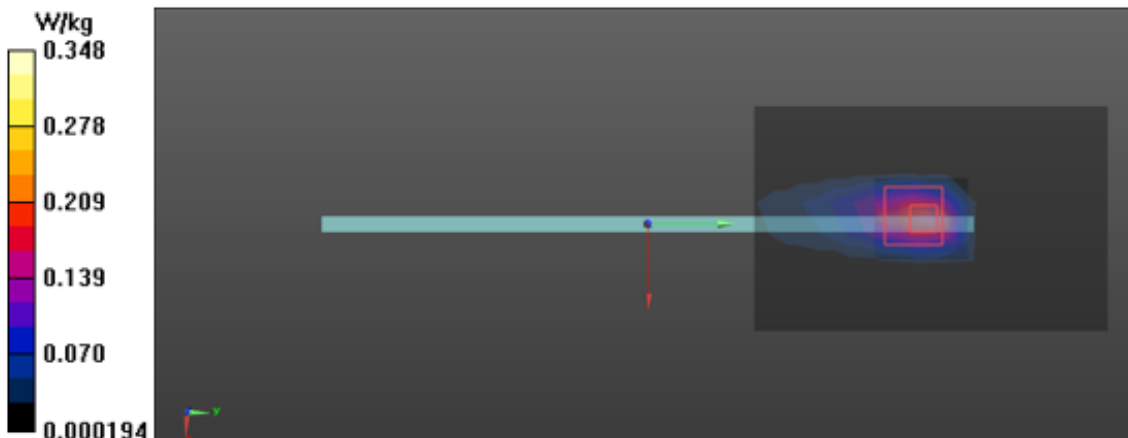
Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 11.40 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.505 W/kg

SAR(1 g) = 0.164 W/kg; SAR(10 g) = 0.063 W/kg

Maximum value of SAR (measured) = 0.348 W/kg



13)

Date: 2022-03-31

Test Laboratory: KCTL Inc.

File Name: [1. 5.3 GHz 802.11 WLAN1.da53:1](#)

DUT: SM-P619, Type: Tablet, Serial: R32T2001G2M

Communication System: UID 0, 5GWLAN (0); Frequency: 5270 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 5270$ MHz; $\sigma = 4.849$ S/m; $\epsilon_r = 36.604$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

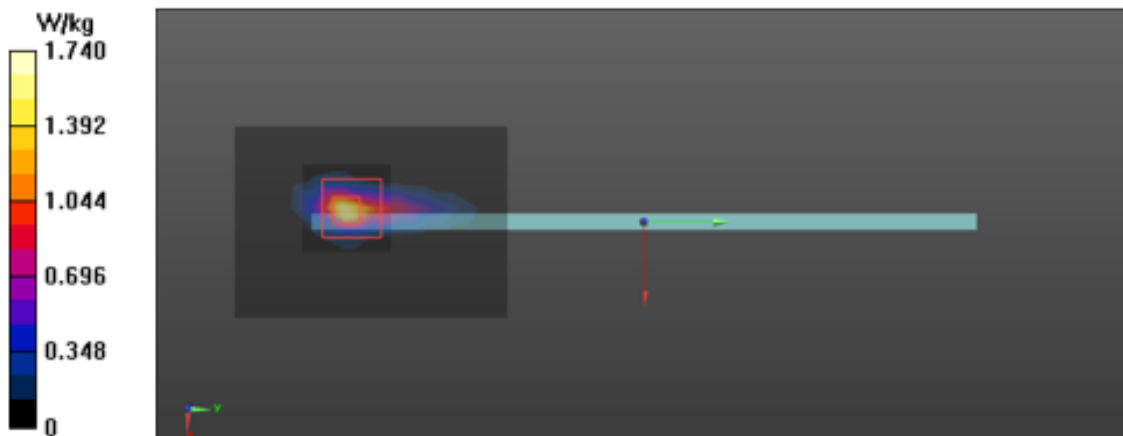
- Probe: EX3DV4 - SN3865;ConvF(5.57, 5.57, 5.57) @ 5270 MHz; Calibrated: 2022-01-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn666; Calibrated: 2022-01-26
- Phantom: ELI V5.0 -2; Type: QD OVA 002 BB; Serial: 1220
- Measurement SW: DASY52, Version 52.10 (4);

Configuration 2/802.11 n_HT40_WLAN1_CH54_Right_0 mm Sensor On/Area Scan (8x11x1):

Measurement grid: dx=10mm, dy=10mm
 Maximum value of SAR (measured) = 1.70 W/kg

Configuration 2/802.11 n_HT40_WLAN1_CH54_Right_0 mm Sensor On/Zoom Scan (9x9x7)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
 Reference Value = 12.23 V/m; Power Drift = -0.03 dB
 Peak SAR (extrapolated) = 3.44 W/kg
SAR(1 g) = 0.643 W/kg; SAR(10 g) = 0.165 W/kg
 Maximum value of SAR (measured) = 1.74 W/kg



14)

Date: 2022-03-31

Test Laboratory: KCTL Inc.

File Name: [2. 5.3 GHz 802.11 WLAN2.da53:1](#)**DUT: SM-P619, Type: Tablet, Serial: R32T2001G2M**Communication System: UID 0, 5GWLAN (0); Frequency: 5270 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5270$ MHz; $\sigma = 4.849$ S/m; $\epsilon_r = 36.604$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3865; ConvF(5.57, 5.57, 5.57) @ 5270 MHz; Calibrated: 2022-01-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn666; Calibrated: 2022-01-26
- Phantom: ELI V5.0 -2; Type: QD OVA 002 BB; Serial: 1220
- Measurement SW: DASY52, Version 52.10 (4);

Configuration 2/802.11 n_HT40_WLAN2_CH54_Left_0 mm Sensor On/Area Scan (9x14x1):

Measurement grid: dx=10mm, dy=10mm

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

Configuration 2/802.11 n_HT40_WLAN2_CH54_Left_0 mm Sensor On/Zoom Scan (9x9x7)/Cube 0:

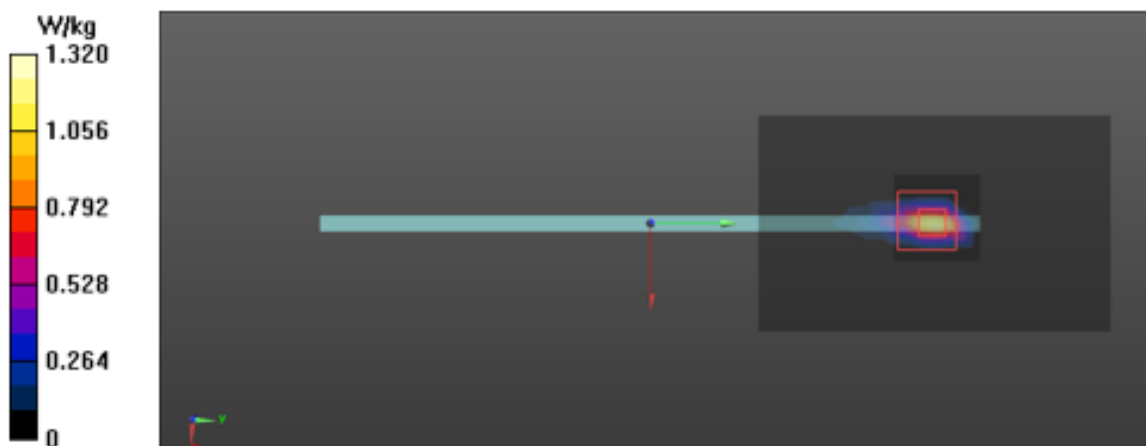
Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 16.55 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 3.26 W/kg

SAR(1 g) = 0.445 W/kg; SAR(10 g) = 0.099 W/kg

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



15)

Date: 2022-04-01

Test Laboratory: KCTL Inc.

File Name: [1. 5.6 GHz 802.11 WLAN1.da53:1](#)

DUT: SM-P619, Type: Tablet, Serial: R32T2001G2M

Communication System: UID 0, 5GWLAN (0); Frequency: 5610 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 5610$ MHz; $\sigma = 5.206$ S/m; $\epsilon_r = 34.69$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3865; ConvF(5.03, 5.03, 5.03) @ 5610 MHz; Calibrated: 2022-01-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn666; Calibrated: 2022-01-26
- Phantom: ELI V5.0 -2; Type: QD OVA 002 BB; Serial: 1220
- Measurement SW: DASY52, Version 52.10 (4);

Configuration 2/802.11 ac_VHT80_WLAN1_CH122_Right_0 mm Sensor On/Area Scan (9x14x1):

Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

Configuration 2/802.11 ac_VHT80_WLAN1_CH122_Right_0 mm Sensor On/Zoom Scan (9x9x7)/Cube

0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

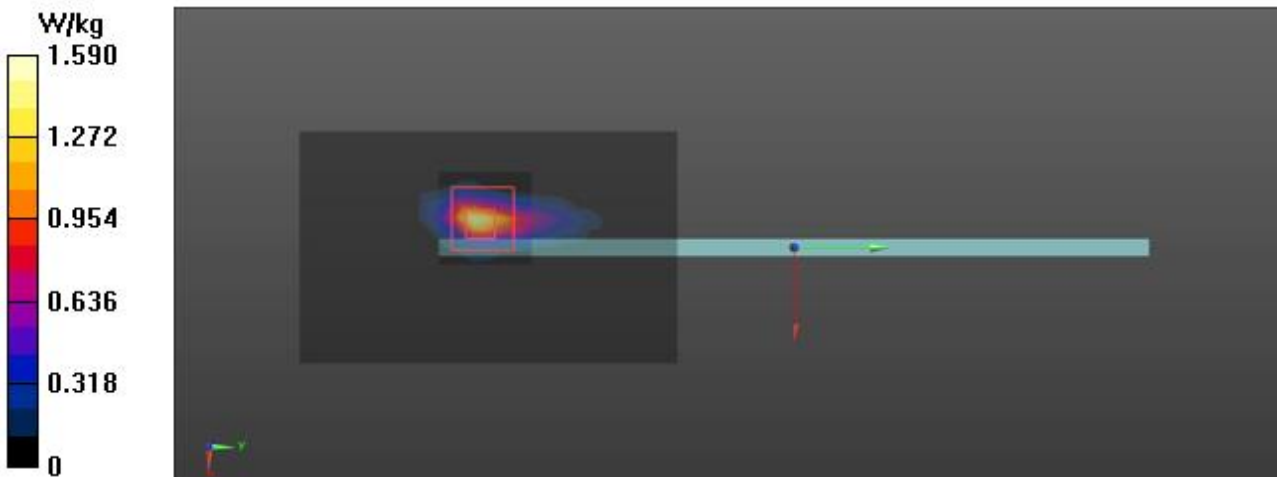
Reference Value = 15.97 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 3.88 W/kg

SAR(1 g) = 0.604 W/kg; SAR(10 g) = 0.149 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.59 W/kg



16)

Date: 2022-04-01

Test Laboratory: KCTL Inc.

File Name: [2. 5.6 GHz 802.11 WLAN2.da53:1](#)

DUT: SM-P619, Type: Tablet, Serial: R32T2001G2M

Communication System: UID 0, 5GWLAN (0); Frequency: 5610 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 5610$ MHz; $\sigma = 5.206$ S/m; $\epsilon_r = 34.69$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3865; ConvF(5.03, 5.03, 5.03) @ 5610 MHz; Calibrated: 2022-01-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn666; Calibrated: 2022-01-26
- Phantom: ELI V5.0 -2; Type: QD OVA 002 BB; Serial: 1220
- Measurement SW: DASY52, Version 52.10 (4);

Configuration 2/802.11 ac_VHT80_WLAN2_CH122_Left_0 mm Sensor On/Area Scan (9x11x1):

Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.13 W/kg

Configuration 2/802.11 ac_VHT80_WLAN2_CH122_Left_0 mm Sensor On/Zoom Scan (9x9x7)/Cube

0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

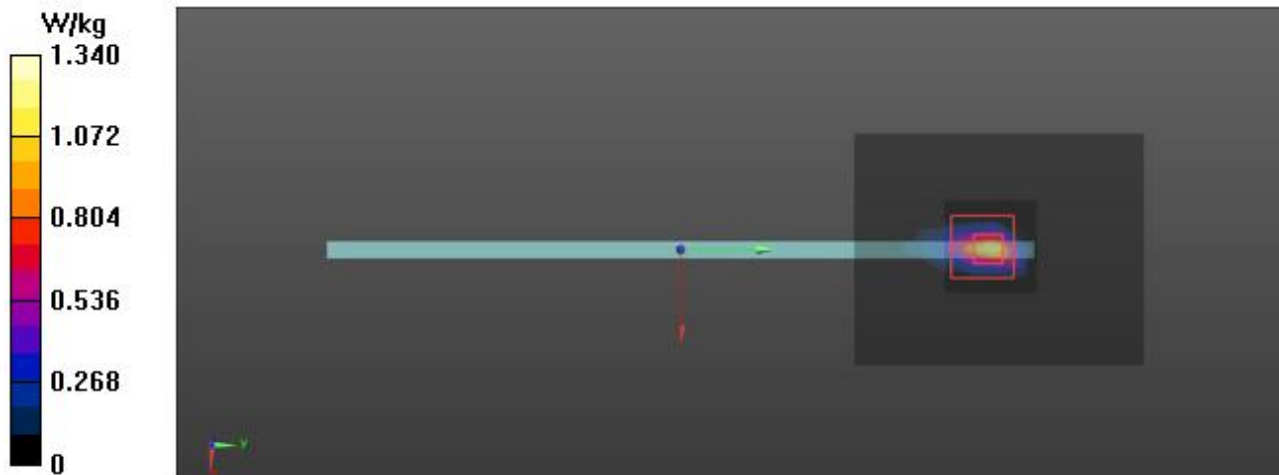
Reference Value = 16.91 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 3.21 W/kg

SAR(1 g) = 0.388 W/kg; SAR(10 g) = 0.081 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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



17)

Date: 2022-04-02

Test Laboratory: KCTL Inc.

File Name: [1. 5.8 GHz 802.11 WLAN1.da53:1](#)

DUT: SM-P619, Type: Tablet, Serial: R32T2001G2M

Communication System: UID 0, 5GWLAN (0); Frequency: 5775 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5775$ MHz; $\sigma = 5.141$ S/m; $\epsilon_r = 36.025$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3865;ConvF(5.03, 5.03, 5.03) @ 5775 MHz; Calibrated: 2022-01-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn666; Calibrated: 2022-01-26
- Phantom: ELI V5.0 -2; Type: QD OVA 002 BB; Serial: 1220
- Measurement SW: DASY52, Version 52.10 (4);

Configuration 2/802.11 ac_VHT80_WLAN1_CH155_Right_0 mm Sensor On/Area Scan (9x14x1):

Measurement grid: dx=10mm, dy=10mm

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

Configuration 2/802.11 ac_VHT80_WLAN1_CH155_Right_0 mm Sensor On/Zoom Scan (9x9x7)/Cube

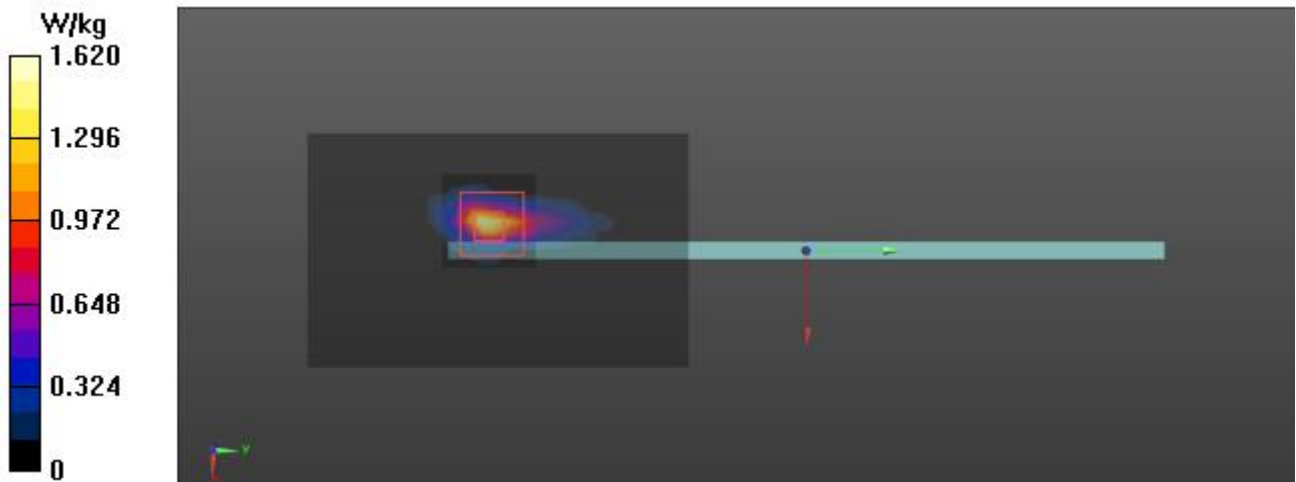
0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 14.91 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 4.01 W/kg

SAR(1 g) = 0.593 W/kg; SAR(10 g) = 0.143 W/kg

Maximum value of SAR (measured) = 1.62 W/kg



18)

Date: 2022-04-02

Test Laboratory: KCTL Inc.

File Name: [2. 5.8 GHz 802.11 WLAN2.da53:1](#)

DUT: SM-P619, Type: Tablet, Serial: R32T2001G2M

Communication System: UID 0, 5GWLAN (0); Frequency: 5775 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5775$ MHz; $\sigma = 5.141$ S/m; $\epsilon_r = 36.025$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3865;ConvF(5.03, 5.03, 5.03) @ 5775 MHz; Calibrated: 2022-01-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn666; Calibrated: 2022-01-26
- Phantom: ELI V5.0 -2; Type: QD OVA 002 BB; Serial: 1220
- Measurement SW: DASY52, Version 52.10 (4);

Configuration 2/802.11 ac_VHT80_WLAN2_CH155_Left_0 mm Sensor On/Area Scan (9x11x1):

Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.55 W/kg

Configuration 2/802.11 ac_VHT80_WLAN2_CH155_Left_0 mm Sensor On/Zoom Scan (7x7x7)/Cube

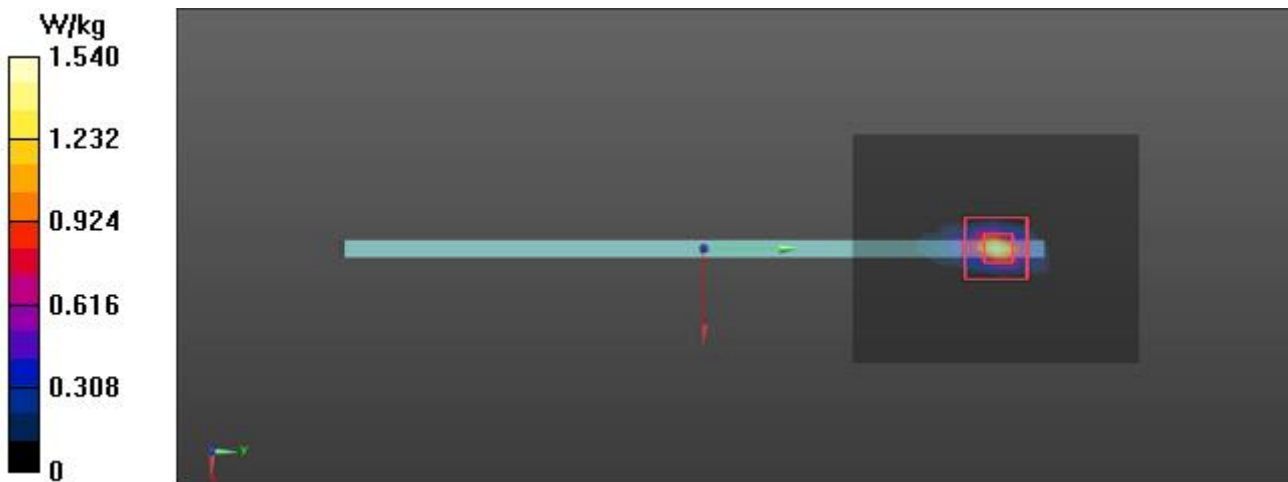
0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 15.18 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 3.50 W/kg

SAR(1 g) = 0.427 W/kg; SAR(10 g) = 0.093 W/kg

Maximum value of SAR (measured) = 1.54 W/kg



19)

Date: 2022-03-29

Test Laboratory: KCTL Inc.

File Name: [7. Bluetooth BDR_DH5_WIFI1_Body.da53:1](#)

DUT: SM-P619, Type: Tablet, Serial: R32T2001G2M

Communication System: UID 0, Bluetooth (0); Frequency: 2480 MHz; Duty Cycle: 1:1.30167
 Medium parameters used: $f = 2480$ MHz; $\sigma = 1.876$ S/m; $\epsilon_r = 38.071$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

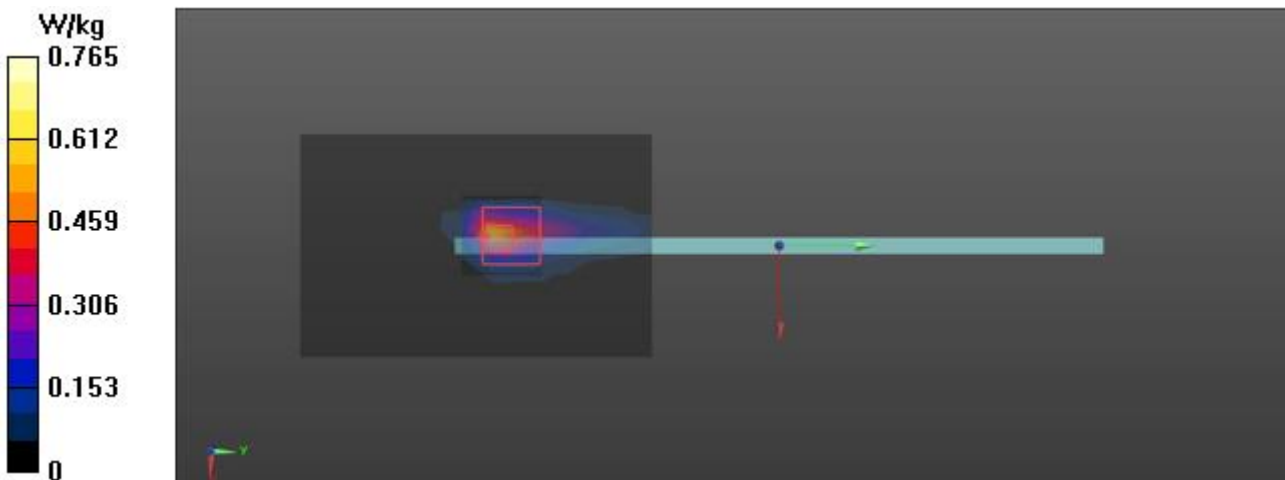
- Probe: EX3DV4 - SN3865; ConvF(7.82, 7.82, 7.82) @ 2480 MHz; Calibrated: 2022-01-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn666; Calibrated: 2022-01-26
- Phantom: ELI V5.0 -3; Type: QD OVA 002 AA; Serial: 1173
- Measurement SW: DASY52, Version 52.10 (4);

Configuration 2/Bluetooth_BDR_DH5_CH78_Right_0 mm Sensor Off/Area Scan (8x12x1):

Measurement grid: dx=12mm, dy=12mm
 Maximum value of SAR (measured) = 0.578 W/kg

Configuration 2/Bluetooth_BDR_DH5_CH78_Right_0 mm Sensor Off/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 4.467 V/m; Power Drift = -0.14 dB
 Peak SAR (extrapolated) = 1.21 W/kg
SAR(1 g) = 0.318 W/kg; SAR(10 g) = 0.115 W/kg
 Maximum value of SAR (measured) = 0.765 W/kg



Appendixes List

Appendix A	A.1 Probe Calibration certificate (EX3DV4_3865) A.2 Probe Calibration certificate (EX3DV4_3928) A.3 Probe Calibration certificate (EX3DV4_7540) A.4 Dipole Calibration certificate (D750V3_1183) A.5 Dipole Calibration certificate (D850V2_1006) A.6 Dipole Calibration certificate (D1750V2_1072) A.7 Dipole Calibration certificate (D1900V2_5d160) A.8 Dipole Calibration certificate (D2450V2_895) A.9 Dipole Calibration certificate (D2600V2_1050) A.10 Dipole Calibration certificate (D5GHzV2_1134) A.11 Justification for Extended SAR Dipole Calibrations
Appendix B	SAR Tissue Specification
Appendix C	Dynamic Antenna Tuner Testing
Appendix D	Downlink LTE CA RF Conducted Power
Appendix E	Power Reduction Verification
Appendix F	#Antenna Location & Distance
Appendix G	EUT Photo
Appendix H	Test Setup Photo