Test Laboratory: Bureau Veritas ADT

# M12- Horizontal Up -10M-QPSK1_2 -Low Channel-Ant2

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 10M ; Frequency: 2501 MHz ; Duty Cycle: 1:3.2; Modulation type: QPSK
Medium: MSL2600 Medium parameters used: f = 2501 MHz; $\sigma$ = 2.08 mho/m; $\varepsilon_r$ = 53.2; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Horizontal Up side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Low Channel/Area Scan (9x20x1):** Measurement grid: dx=5mm, dy=5mm
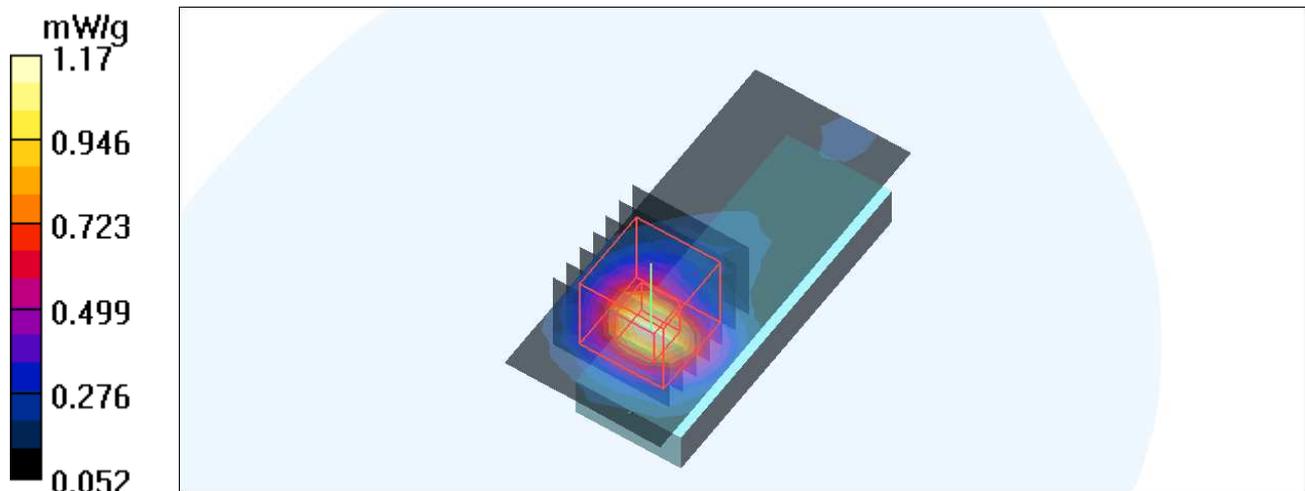Maximum value of SAR (measured) = 1.17 mW/g

**Low Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 11.5 V/m; Power Drift = 0.116 dB
Peak SAR (extrapolated) = 1.66 W/kg
**SAR(1 g) = 0.837 mW/g; SAR(10 g) = 0.408 mW/g**
Maximum value of SAR (measured) = 1.10 mW/g

Test Laboratory: Bureau Veritas ADT

## M12- Horizontal Up -10M-QPSK1_2 -Mid Channel-Ant2

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 10M ; Frequency: 2600 MHz ; Duty Cycle: 1:3.2; Modulation type: QPSK
Medium: MSL2600 Medium parameters used: f = 2600 MHz; $\sigma$ = 2.21 mho/m; $\varepsilon_r$ = 53.1; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Horizontal Up side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mid Channel/Area Scan (9x20x1):** Measurement grid: dx=5mm, dy=5mm
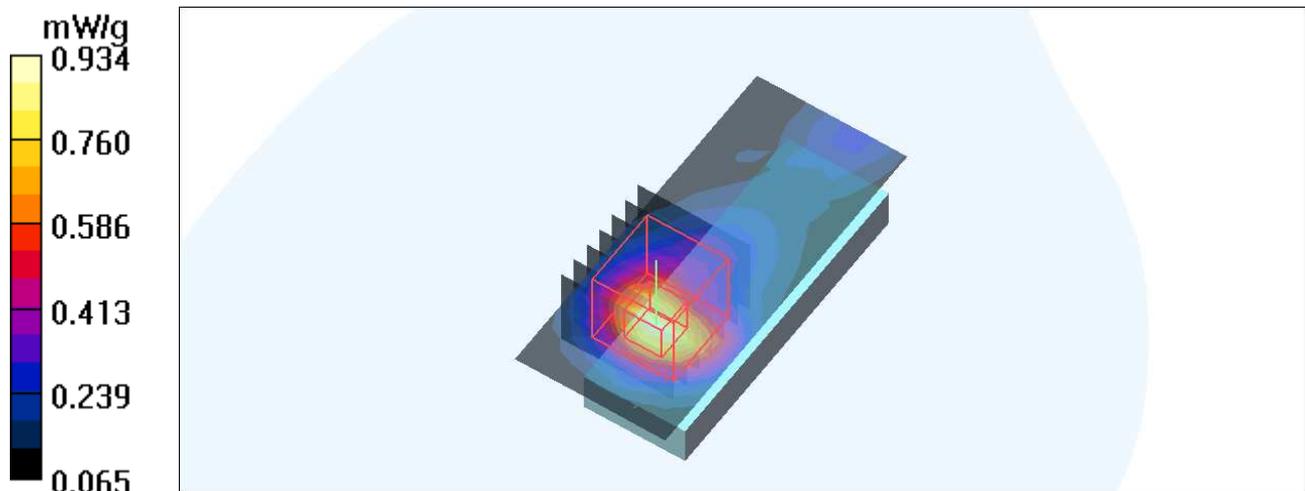Maximum value of SAR (measured) = 0.934 mW/g

**Mid Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 10.5 V/m; Power Drift = -0.105 dB
Peak SAR (extrapolated) = 1.31 W/kg
**SAR(1 g) = 0.675 mW/g; SAR(10 g) = 0.349 mW/g**
Maximum value of SAR (measured) = 0.873 mW/g

Test Laboratory: Bureau Veritas ADT

## M12- Horizontal Up -10M-QPSK1_2 -High Channel-Ant2

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 10M ; Frequency: 2685 MHz ; Duty Cycle: 1:3.2; Modulation type: QPSK
Medium: MSL2600 Medium parameters used: f = 2685 MHz; $\sigma$ = 2.26 mho/m; $\varepsilon_r$ = 52.9; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Horizontal Up side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**High Channel/Area Scan (9x20x1):** Measurement grid: dx=5mm, dy=5mm
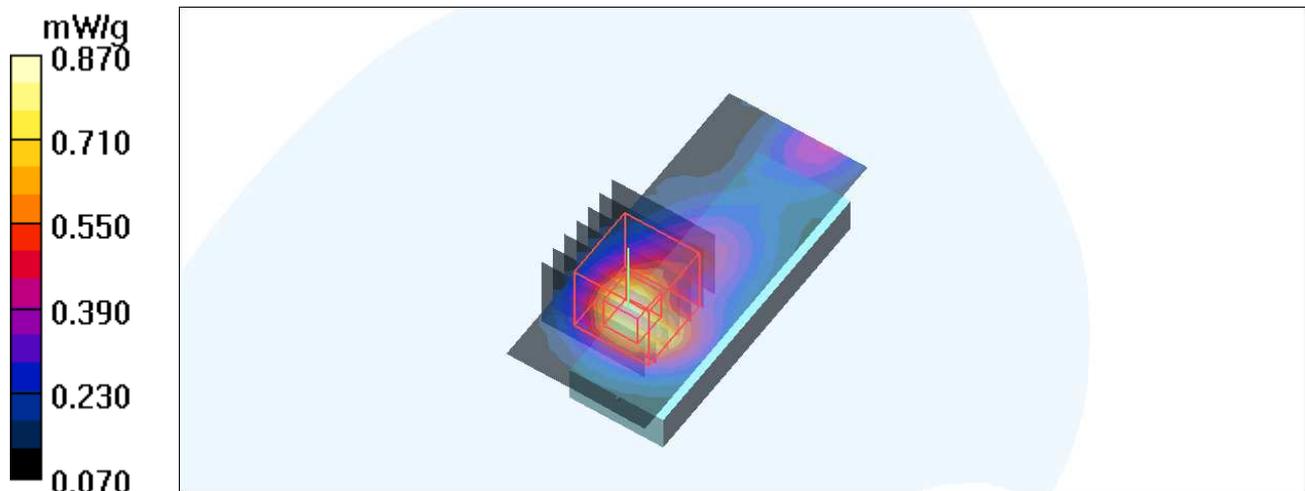Maximum value of SAR (measured) = 0.870 mW/g

**High Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 9.91 V/m; Power Drift = -0.115 dB
Peak SAR (extrapolated) = 1.30 W/kg
**SAR(1 g) = 0.660 mW/g; SAR(10 g) = 0.345 mW/g**
Maximum value of SAR (measured) = 0.841 mW/g

Test Laboratory: Bureau Veritas ADT

# M13-Horizontal Down-5M-64QAM 1/2 -Low Channel-Ant1

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 5M ; Frequency: 2498.5 MHz ; Duty Cycle: 1:3.2; Modulation type: 64QAM
Medium: MSL2450 Medium parameters used: f = 2498.5 MHz; $\sigma$ = 2.06 mho/m; $\varepsilon_r$ = 53.2; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Horizontal-Down side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.2, 8.2, 8.2) ; Calibrated: 2010/3/25
-Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Low Channel/Area Scan (10x20x1):** Measurement grid: dx=5mm, dy=5mm
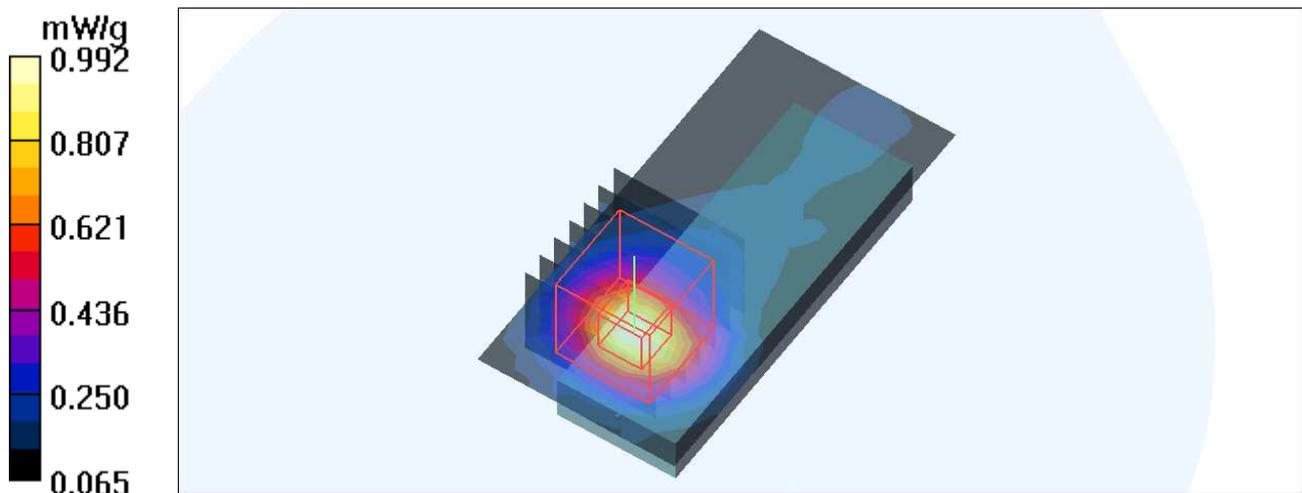Maximum value of SAR (measured) = 0.992 mW/g

**Low Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 15.48 V/m; Power Drift = 0.024 dB
Peak SAR (extrapolated) = 1.42 W/kg
**SAR(1 g) = 0.736 mW/g; SAR(10 g) = 0.375 mW/g**
Maximum value of SAR (measured) = 0.958 mW/g

Test Laboratory: Bureau Veritas ADT

## M13-Horizontal Down-5M-64QAM 1/2 -Mid Channel-Ant1

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**

Communication System: Wimax_2.6GHz 5M ; Frequency: 2600 MHz ; Duty Cycle: 1:3.2; Modulation type: 64QAM

Medium: MSL2600 Medium parameters used: f = 2600 MHz; $\sigma$ = 2.2 mho/m; $\varepsilon_r$ = 53; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section ; Separation distance : 5 mm (The Horizontal Down side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mid Channel/Area Scan (10x20x1):** Measurement grid: dx=5mm, dy=5mm
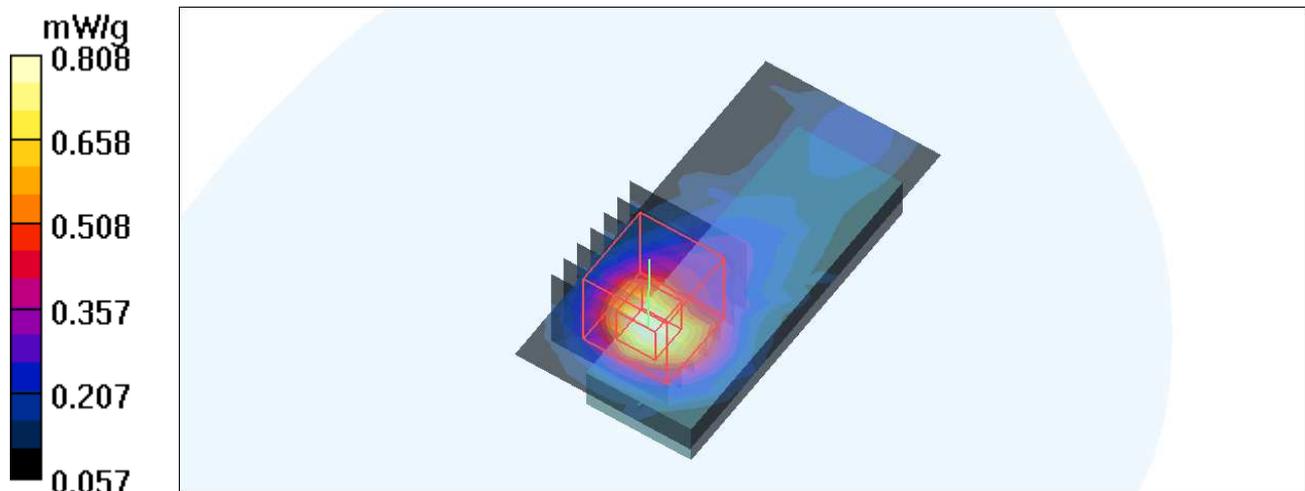Maximum value of SAR (measured) = 0.808 mW/g

**Mid Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 11.5 V/m; Power Drift = 0.076 dB
Peak SAR (extrapolated) = 1.20 W/kg
**SAR(1 g) = 0.612 mW/g; SAR(10 g) = 0.318 mW/g**
Maximum value of SAR (measured) = 0.789 mW/g

Test Laboratory: Bureau Veritas ADT

# M13-Horizontal Down-5M-64QAM 1/2 -High Channel-Ant1

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 5M ; Frequency: 2687.5 MHz ; Duty Cycle: 1:3.2; Modulation type: 64QAM
Medium: MSL2600 Medium parameters used: f = 2687.5 MHz; $\sigma$ = 2.26 mho/m; $\varepsilon_r$ = 52.7; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Horizontal Down side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**High Channel/Area Scan (10x20x1):** Measurement grid: dx=5mm, dy=5mm
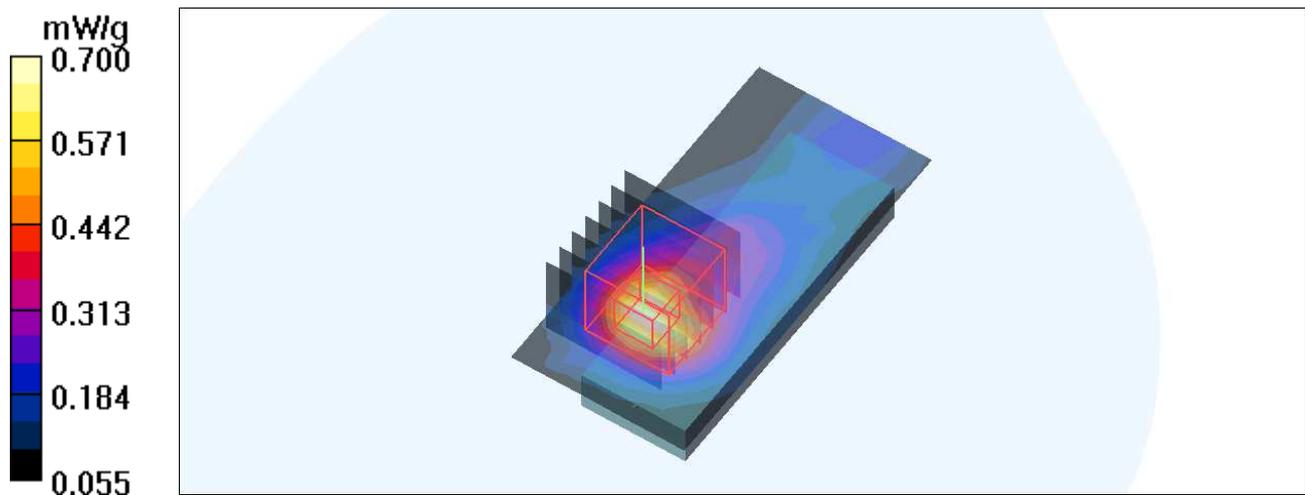Maximum value of SAR (measured) = 0.700 mW/g

**High Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 9.14 V/m; Power Drift = 0.163 dB
Peak SAR (extrapolated) = 1.20 W/kg
**SAR(1 g) = 0.534 mW/g; SAR(10 g) = 0.276 mW/g**
Maximum value of SAR (measured) = 0.665 mW/g

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# M14-Horizontal Down-5M-16QAM 1/2 -Low Channel-Ant1

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 5M ; Frequency: 2498.5 MHz ; Duty Cycle: 1:3.2; Modulation type: 16QAM
Medium: MSL2450 Medium parameters used: f = 2498.5 MHz; $\sigma$ = 2.06 mho/m; $\varepsilon_r$ = 53.2; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Horizontal Down side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.2, 8.2, 8.2) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Low Channel/Area Scan (10x20x1):** Measurement grid: dx=5mm, dy=5mm
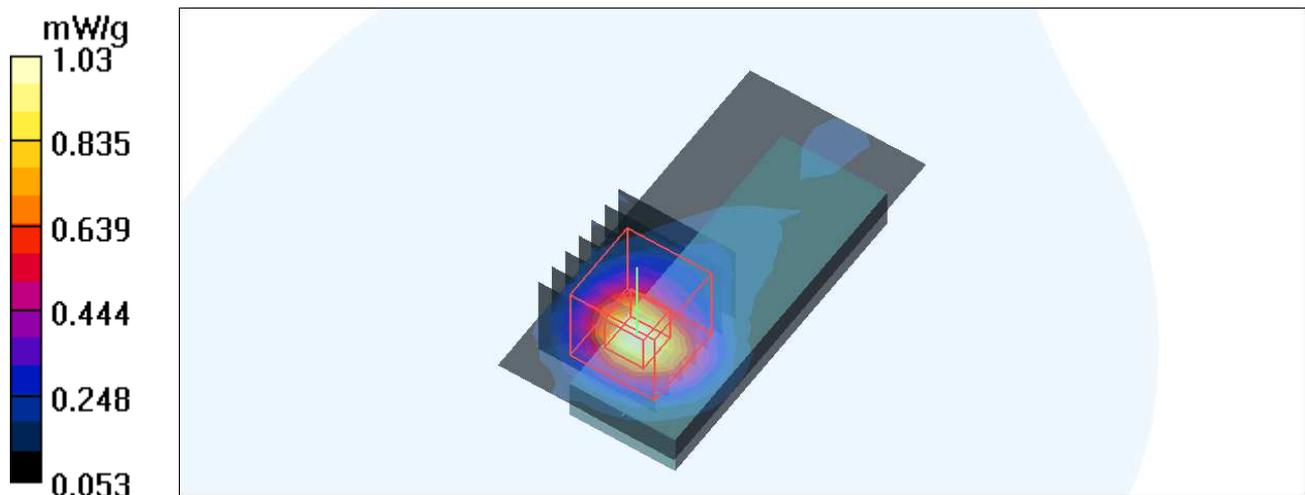Maximum value of SAR (measured) = 1.03 mW/g

**Low Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 12.6 V/m; Power Drift = 0.063 dB
Peak SAR (extrapolated) = 1.53 W/kg
**SAR(1 g) = 0.766 mW/g; SAR(10 g) = 0.373 mW/g**
Maximum value of SAR (measured) = 0.992 mW/g

Test Laboratory: Bureau Veritas ADT

## M14-Horizontal Down-5M-16QAM 1/2 -Mid Channel-Ant1

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**

Communication System: Wimax_2.6GHz 5M ; Frequency: 2600 MHz ; Duty Cycle: 1:3.2; Modulation type: 16QAM

Medium: MSL2600 Medium parameters used: f = 2600 MHz; $\sigma$ = 2.2 mho/m; $\varepsilon_r$ = 53; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section ; Separation distance : 5 mm (The Horizontal Down side of the EUT to the Phantom)

DASY4 Configuration:

- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mid Channel/Area Scan (10x20x1):** Measurement grid: dx=5mm, dy=5mm
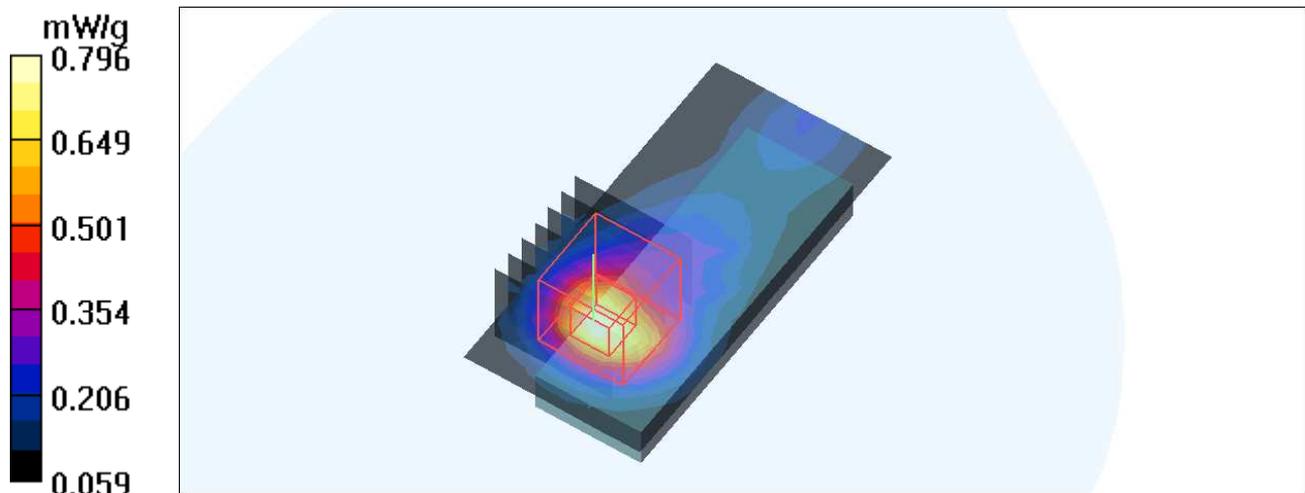
Maximum value of SAR (measured) = 0.796 mW/g

**Mid Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 11.1 V/m; Power Drift = -0.136 dB

Peak SAR (extrapolated) = 1.31 W/kg

**SAR(1 g) = 0.612 mW/g; SAR(10 g) = 0.313 mW/g**

Maximum value of SAR (measured) = 0.759 mW/g

Test Laboratory: Bureau Veritas ADT

# M14-Horizontal Down-5M-16QAM 1/2 -High Channel-Ant1

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 5M ; Frequency: 2687.5 MHz ; Duty Cycle: 1:3.2; Modulation type: 16QAM
Medium: MSL2600 Medium parameters used: f = 2687.5 MHz; σ = 2.26 mho/m; $\varepsilon_r$ = 52.7; ρ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Horizontal Down side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**High Channel/Area Scan (10x20x1):** Measurement grid: dx=5mm, dy=5mm
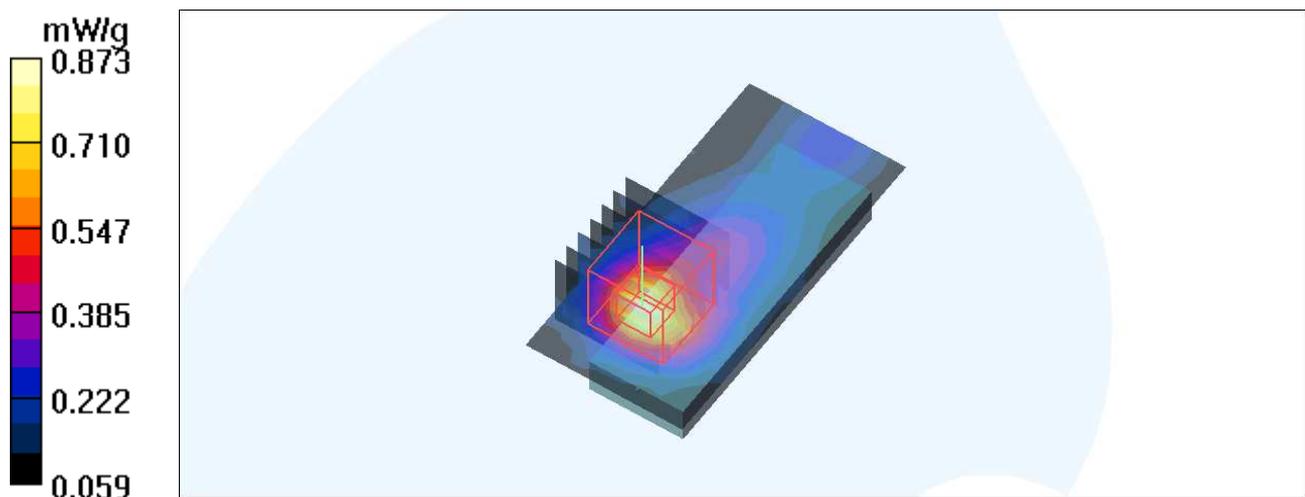Maximum value of SAR (measured) = 0.873 mW/g

**High Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 11.5 V/m; Power Drift = -0.153 dB
Peak SAR (extrapolated) = 1.38 W/kg
**SAR(1 g) = 0.657 mW/g; SAR(10 g) = 0.336 mW/g**
Maximum value of SAR (measured) = 0.885 mW/g

Test Laboratory: Bureau Veritas ADT

# M15-Horizontal Down-5M-QPSK 1/2 -Low Channel-Ant1

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 5M ; Frequency: 2498.5 MHz ; Duty Cycle: 1:3.2; Modulation type: QPSK
Medium: MSL2450 Medium parameters used: f = 2498.5 MHz; $\sigma$ = 2.06 mho/m; $\varepsilon_r$ = 53.2; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Horizontal Down side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.2, 8.2, 8.2) ; Calibrated: 2010/3/25
--Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Low Channel/Area Scan (10x20x1):** Measurement grid: dx=5mm, dy=5mm
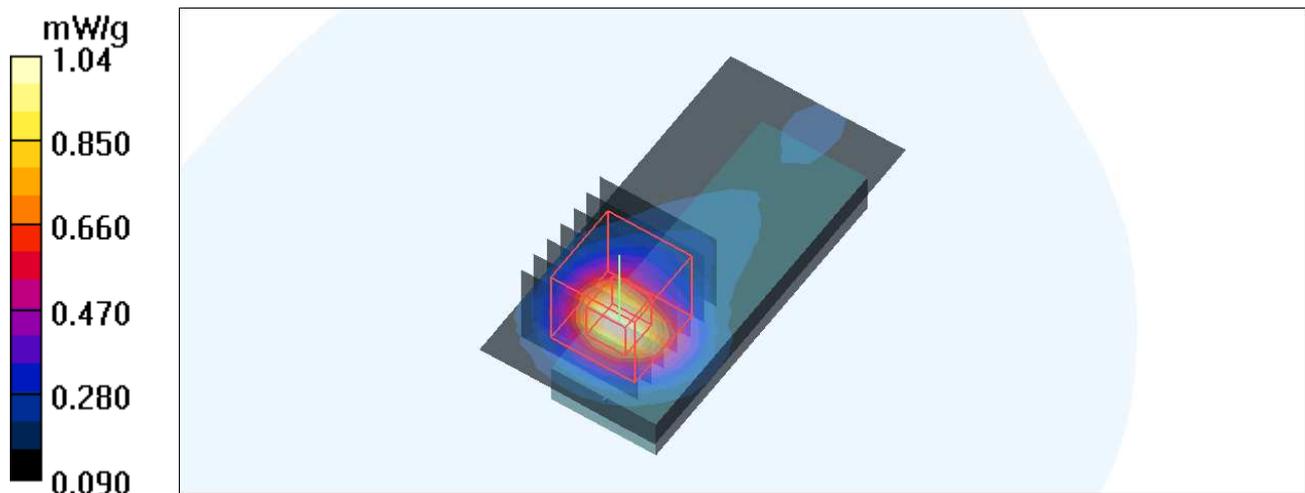Maximum value of SAR (measured) = 1.04 mW/g

**Low Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 13.5 V/m; Power Drift = -0.011 dB
Peak SAR (extrapolated) = 1.54 W/kg
**SAR(1 g) = 0.796 mW/g; SAR(10 g) = 0.409 mW/g**
Maximum value of SAR (measured) = 1.03 mW/g

Test Laboratory: Bureau Veritas ADT

# M15-Horizontal Down-5M-QPSK 1/2 -Mid Channel-Ant1

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 5M ; Frequency: 2600 MHz ; Duty Cycle: 1:3.2; Modulation
type: QPSK
Medium: MSL2600 Medium parameters used: f = 2600 MHz; $\sigma$ = 2.2 mho/m; $\varepsilon_r$ = 53; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Horizontal Down side of the EUT to the
Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mid Channel/Area Scan (10x20x1):** Measurement grid: dx=5mm, dy=5mm
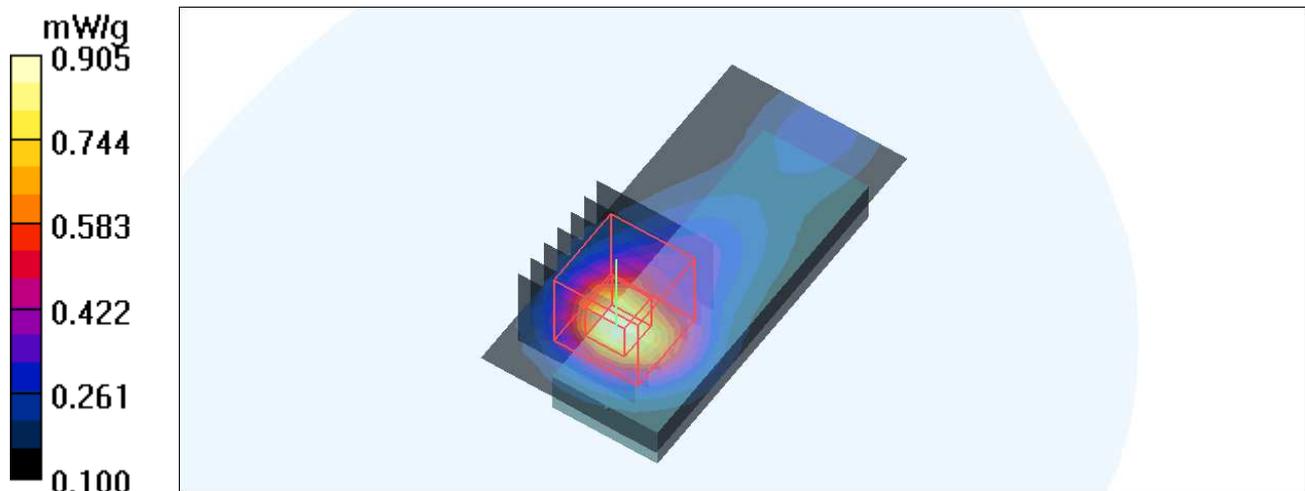Maximum value of SAR (measured) = 0.905 mW/g

**Mid Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 12.1 V/m; Power Drift = -0.135 dB
Peak SAR (extrapolated) = 1.31 W/kg
**SAR(1 g) = 0.688 mW/g; SAR(10 g) = 0.372 mW/g**
Maximum value of SAR (measured) = 0.871 mW/g

Test Laboratory: Bureau Veritas ADT

# M15-Horizontal Down-5M-QPSK 1/2 -High Channel-Ant1

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**

Communication System: Wimax_2.6GHz 5M ; Frequency: 2687.5 MHz ; Duty Cycle: 1:3.2; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: f = 2687.5 MHz; $\sigma$ = 2.26 mho/m; $\varepsilon_r$ = 52.7; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section ; Separation distance : 5 mm (The Horizontal Down side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**High Channel/Area Scan (10x20x1):** Measurement grid: dx=5mm, dy=5mm
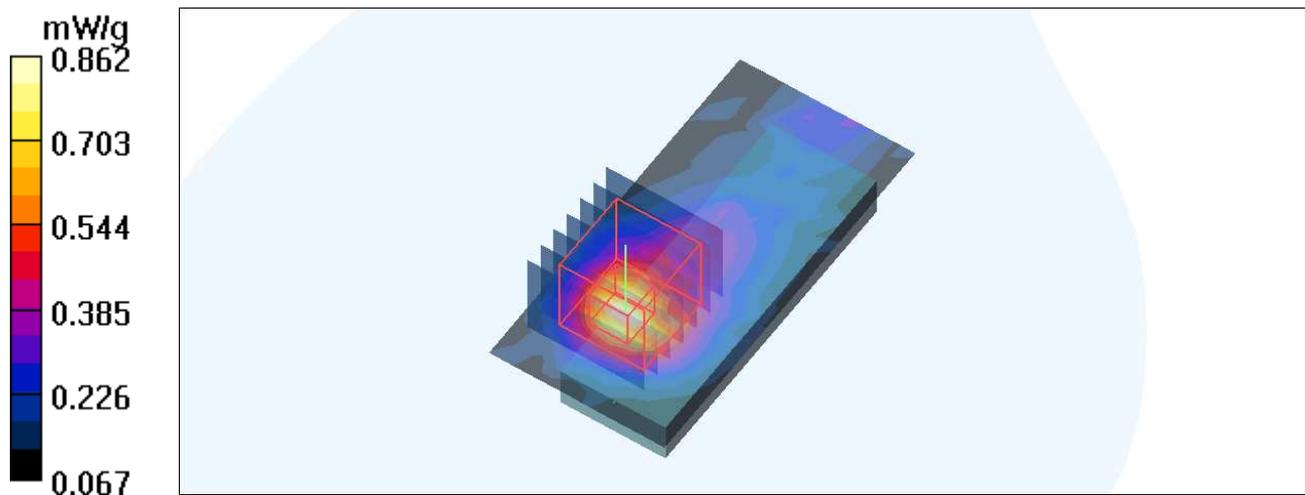Maximum value of SAR (measured) = 0.862 mW/g

**High Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 10.2 V/m; Power Drift = 0.144 dB
Peak SAR (extrapolated) = 1.31 W/kg
**SAR(1 g) = 0.666 mW/g; SAR(10 g) = 0.366 mW/g**
Maximum value of SAR (measured) = 0.840 mW/g

Test Laboratory: Bureau Veritas ADT

# M16-Horizontal-Down -5M-64QAM 1_2-Low Channel -Ant2

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 5M ; Frequency: 2498.5 MHz ; Duty Cycle: 1:3.2; Modulation type: 64QAM
Medium: MSL2450 Medium parameters used: f = 2498.5 MHz; σ = 2.06 mho/m; $\varepsilon_r$ = 53.2; ρ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Horizontal-Down side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.2, 8.2, 8.2) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Low Channel/Area Scan (9x20x1):** Measurement grid: dx=5mm, dy=5mm
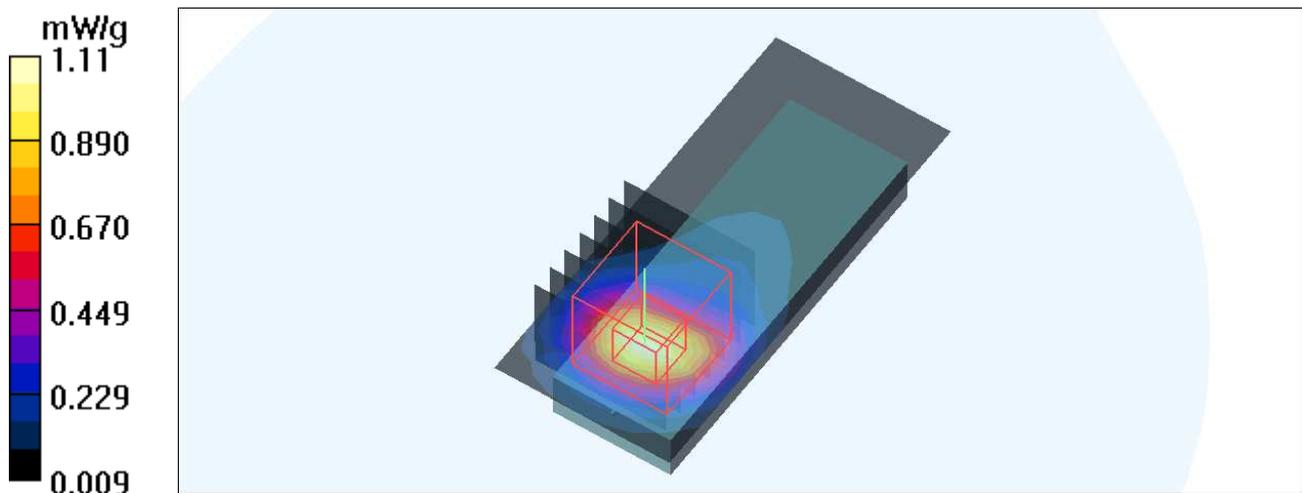Maximum value of SAR (measured) = 1.11 mW/g

**Low Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 14.8 V/m; Power Drift = 0.003 dB
Peak SAR (extrapolated) = 1.63 W/kg
**SAR(1 g) = 0.778 mW/g; SAR(10 g) = 0.347 mW/g**
Maximum value of SAR (measured) = 1.03 mW/g

Test Laboratory: Bureau Veritas ADT

# M16-Horizontal-Down -5M-64QAM 1_2-Mid Channel -Ant2

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 5M ; Frequency: 2600 MHz ; Duty Cycle: 1:3.2; Modulation type: 64QAM
Medium: MSL2600 Medium parameters used: f = 2600 MHz; $\sigma$ = 2.2 mho/m; $\varepsilon_r$ = 53; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Horizontal-Down side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mid Channel/Area Scan (9x20x1):** Measurement grid: dx=5mm, dy=5mm
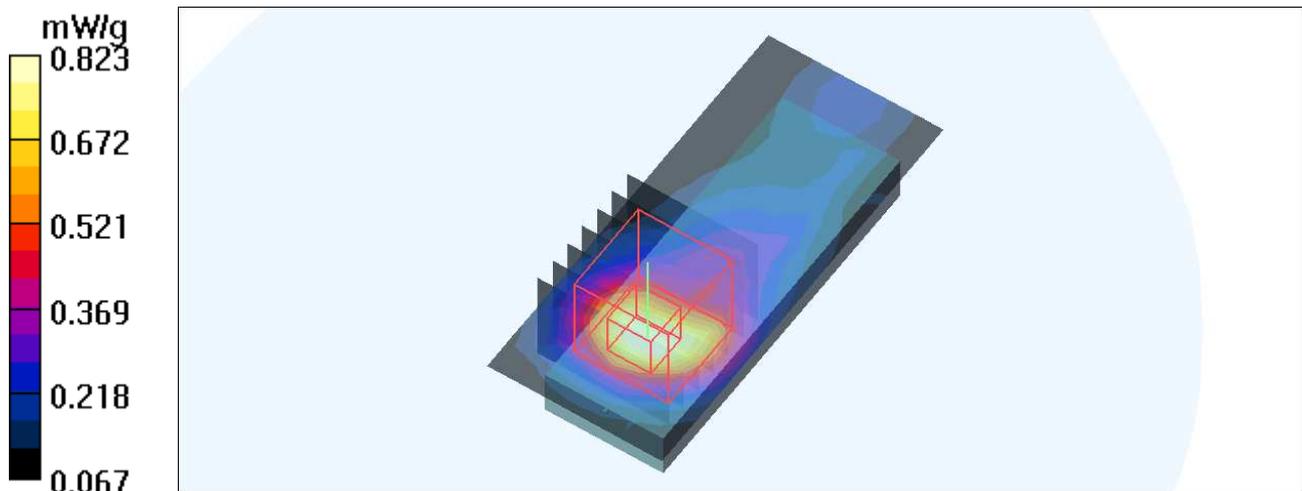Maximum value of SAR (measured) = 0.823 mW/g

**Mid Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 11.4 V/m; Power Drift = 0.193 dB
Peak SAR (extrapolated) = 1.29 W/kg
**SAR(1 g) = 0.636 mW/g; SAR(10 g) = 0.328 mW/g**
Maximum value of SAR (measured) = 0.821 mW/g

Test Laboratory: Bureau Veritas ADT

# M16-Horizontal-Down -5M-64QAM 1_2-High Channel -Ant2

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 5M ; Frequency: 2687.5 MHz ; Duty Cycle: 1:3.2; Modulation type: 64QAM
Medium: MSL2600 Medium parameters used: f = 2687.5 MHz; $\sigma$ = 2.26 mho/m; $\varepsilon_r$ = 52.7; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Horizontal- Down side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**High Channel/Area Scan (9x20x1):** Measurement grid: dx=5mm, dy=5mm
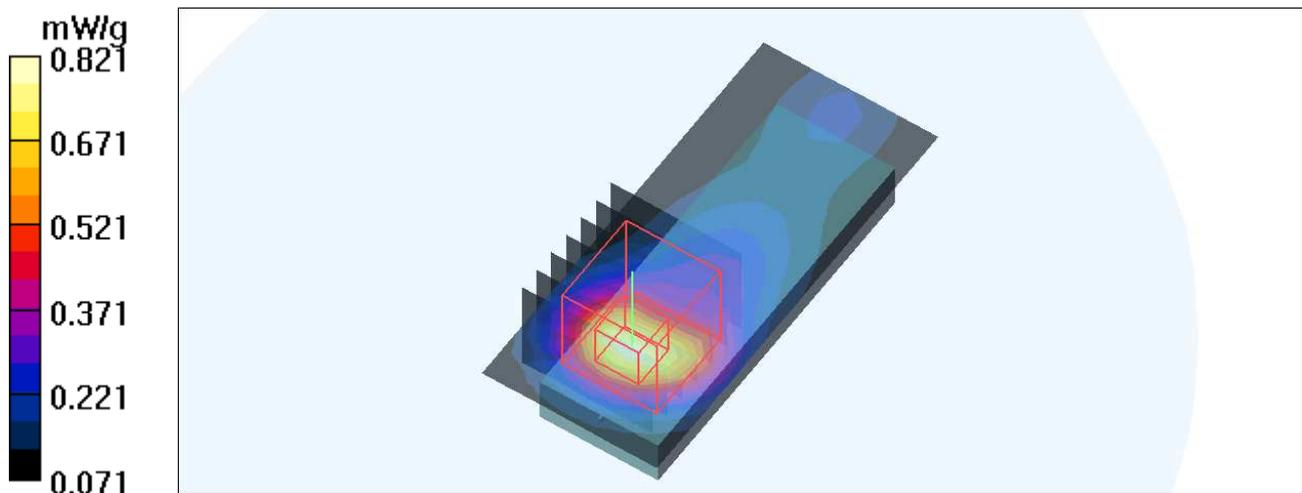Maximum value of SAR (measured) = 0.821 mW/g

**High Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 10.8 V/m; Power Drift = -0.153 dB
Peak SAR (extrapolated) = 1.23 W/kg
**SAR(1 g) = 0.604 mW/g; SAR(10 g) = 0.320 mW/g**
Maximum value of SAR (measured) = 0.771 mW/g

Test Laboratory: Bureau Veritas ADT

# M17-Horizontal-Down -5M-16QAM 1_2-Low Channel -Ant2

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 5M ; Frequency: 2498.5 MHz ; Duty Cycle: 1:3.2; Modulation type: 16QAM
Medium: MSL2450 Medium parameters used: f = 2498.5 MHz; $\sigma$ = 2.06 mho/m; $\varepsilon_r$ = 53.2; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Horizontal-Down side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.2, 8.2, 8.2) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Low Channel/Area Scan (9x20x1):** Measurement grid: dx=5mm, dy=5mm
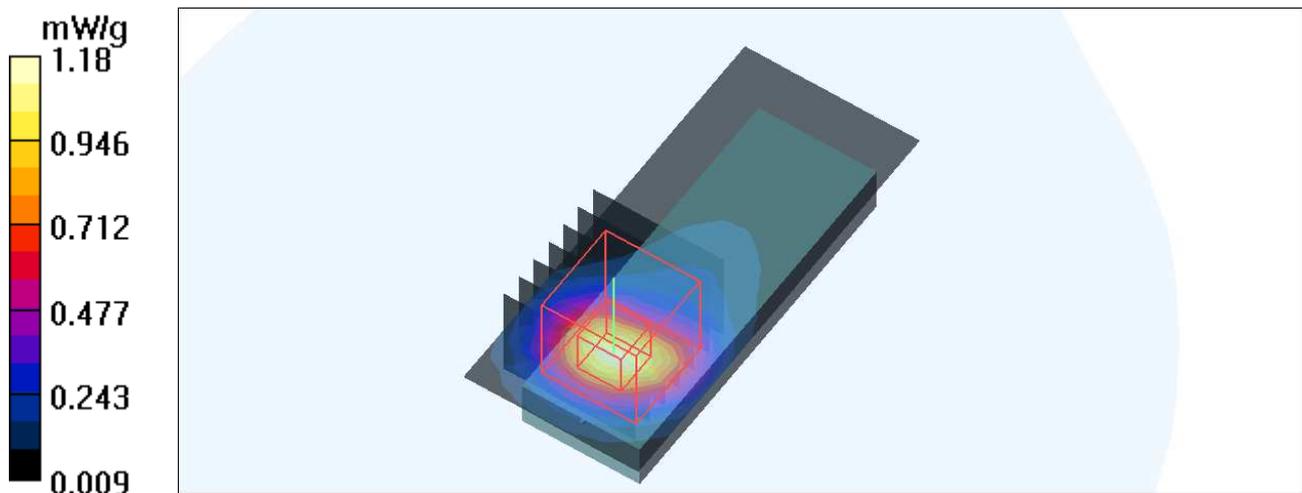Maximum value of SAR (measured) = 1.18 mW/g

**Low Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 15.0 V/m; Power Drift = 0.086 dB
Peak SAR (extrapolated) = 1.72 W/kg
**SAR(1 g) = 0.818 mW/g; SAR(10 g) = 0.364 mW/g**
Maximum value of SAR (measured) = 1.09 mW/g

Test Laboratory: Bureau Veritas ADT

# M17-Horizontal-Down -5M-16QAM 1_2-Mid Channel -Ant2

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 5M ; Frequency: 2600 MHz ; Duty Cycle: 1:3.2; Modulation type: 16QAM
Medium: MSL2600 Medium parameters used: f = 2600 MHz; $\sigma$ = 2.2 mho/m; $\varepsilon_r$ = 53; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Horizontal-Down side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mid Channel/Area Scan (9x20x1):** Measurement grid: dx=5mm, dy=5mm
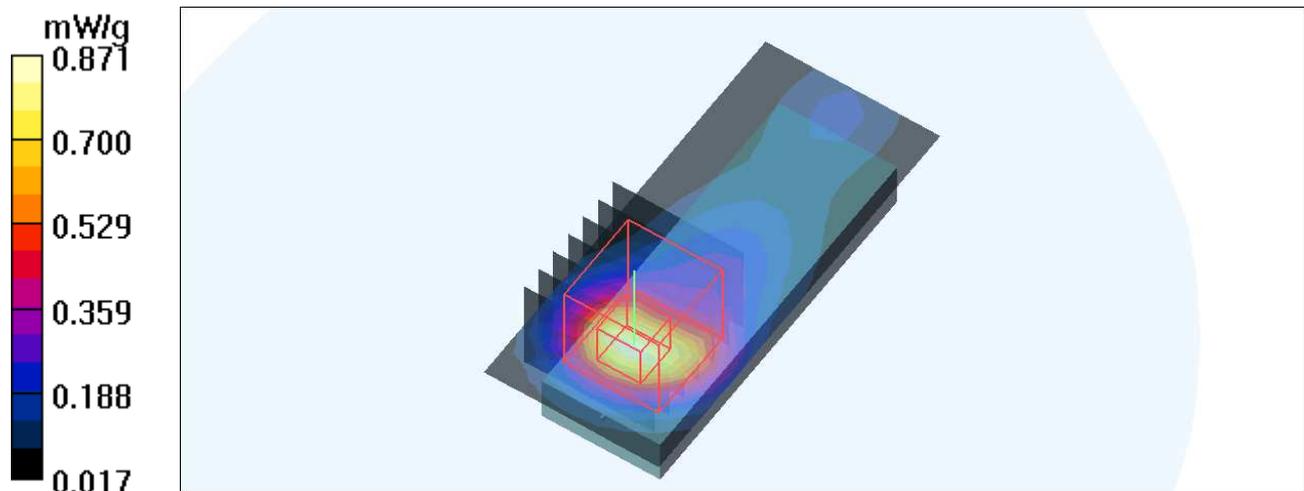Maximum value of SAR (measured) = 0.871 mW/g

**Mid Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 12.7 V/m; Power Drift = -0.154 dB
Peak SAR (extrapolated) = 1.28 W/kg
**SAR(1 g) = 0.612 mW/g; SAR(10 g) = 0.280 mW/g**
Maximum value of SAR (measured) = 0.808 mW/g

Test Laboratory: Bureau Veritas ADT

# M17-Horizontal-Down -5M-16QAM 1_2-High Channel -Ant2

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**

Communication System: Wimax_2.6GHz 5M ; Frequency: 2687.5 MHz ; Duty Cycle: 1:3.2; Modulation type: 16QAM

Medium: MSL2600 Medium parameters used: f = 2687.5 MHz; $\sigma$ = 2.26 mho/m; $\varepsilon_r$ = 52.7; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section ; Separation distance : 5 mm (The Horizontal-Down side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**High Channel/Area Scan (9x20x1):** Measurement grid: dx=5mm, dy=5mm
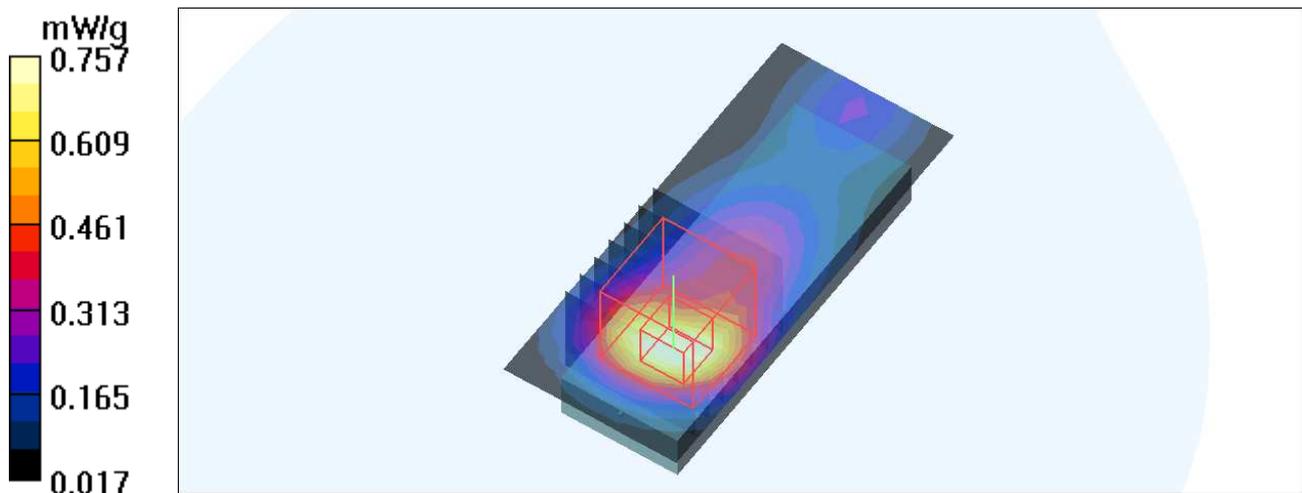Maximum value of SAR (measured) = 0.757 mW/g

**High Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 11.3 V/m; Power Drift = -0.154 dB
Peak SAR (extrapolated) = 1.18 W/kg
**SAR(1 g) = 0.558 mW/g; SAR(10 g) = 0.263 mW/g**
Maximum value of SAR (measured) = 0.728 mW/g

Test Laboratory: Bureau Veritas ADT

# M18-Horizontal-Down -5M-QPSK 1_2-Low Channel -Ant2

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 5M ; Frequency: 2498.5 MHz ; Duty Cycle: 1:3.2; Modulation type: QPSK
Medium: MSL2450 Medium parameters used: f = 2498.5 MHz; σ = 2.06 mho/m; $\varepsilon_r$ = 53.2; ρ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Horizontal-Down side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.2, 8.2, 8.2) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Low Channel/Area Scan (9x20x1):** Measurement grid: dx=5mm, dy=5mm
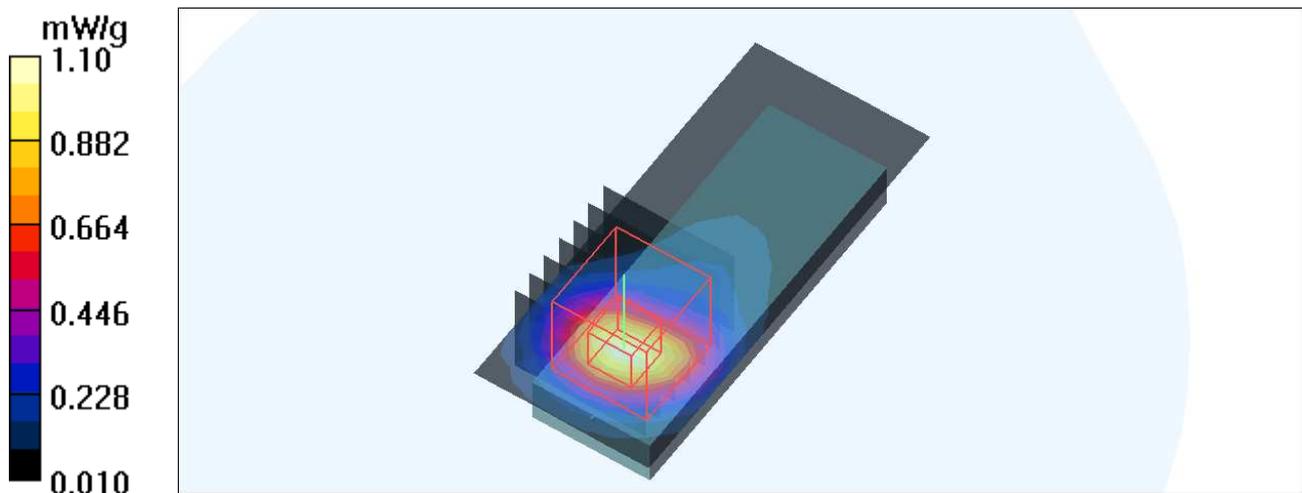Maximum value of SAR (measured) = 1.10 mW/g

**Low Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 14.6 V/m; Power Drift = 0.096 dB
Peak SAR (extrapolated) = 1.64 W/kg
**SAR(1 g) = 0.777 mW/g; SAR(10 g) = 0.346 mW/g**
Maximum value of SAR (measured) = 1.04 mW/g

Test Laboratory: Bureau Veritas ADT

# M18-Horizontal-Down -5M-QPSK 1_2-Mid Channel -Ant2

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 5M ; Frequency: 2600 MHz ; Duty Cycle: 1:3.2; Modulation type: QPSK
Medium: MSL2600 Medium parameters used: f = 2600 MHz; σ = 2.2 mho/m; $\varepsilon_r$ = 53; ρ = 1000 kg/m³
Phantom section: Flat Section ; Separation distance : 5 mm (The Horizontal- Down side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mid Channel/Area Scan (9x20x1):** Measurement grid: dx=5mm, dy=5mm
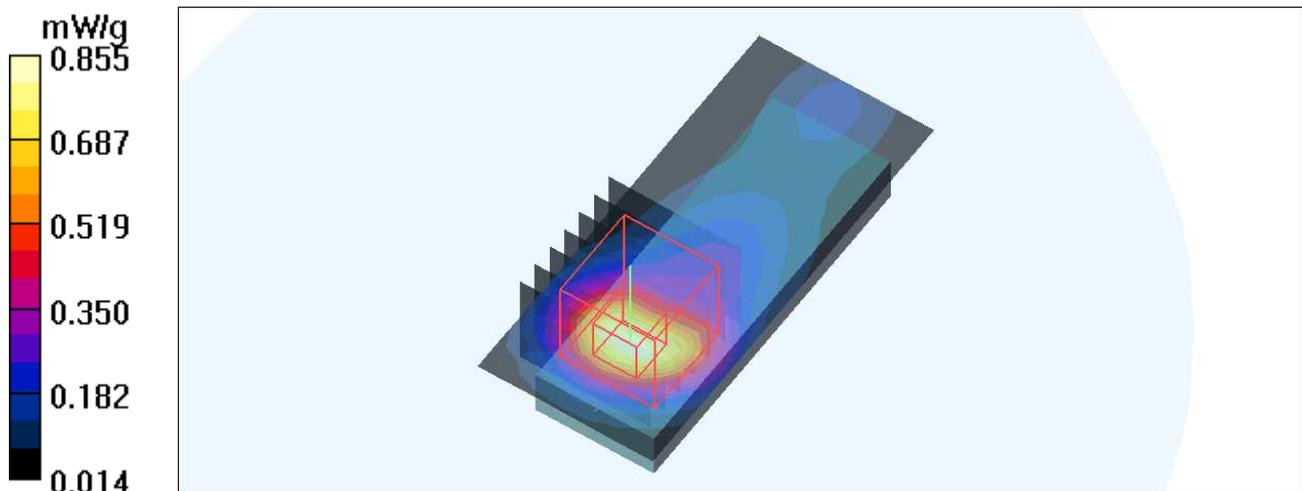Maximum value of SAR (measured) = 0.855 mW/g

**Mid Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 12.6 V/m; Power Drift = -0.190 dB
Peak SAR (extrapolated) = 1.28 W/kg
**SAR(1 g) = 0.610 mW/g; SAR(10 g) = 0.280 mW/g**
Maximum value of SAR (measured) = 0.805 mW/g

Test Laboratory: Bureau Veritas ADT

# M18-Horizontal-Down -5M-QPSK 1_2-High Channel -Ant2

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 5M ; Frequency: 2687.5 MHz ; Duty Cycle: 1:3.2; Modulation type: QPSK
Medium: MSL2600 Medium parameters used: f = 2687.5 MHz; $\sigma$ = 2.26 mho/m; $\varepsilon_r$ = 52.7; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Horizontal-Down side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**High Channel/Area Scan (9x20x1):** Measurement grid: dx=5mm, dy=5mm
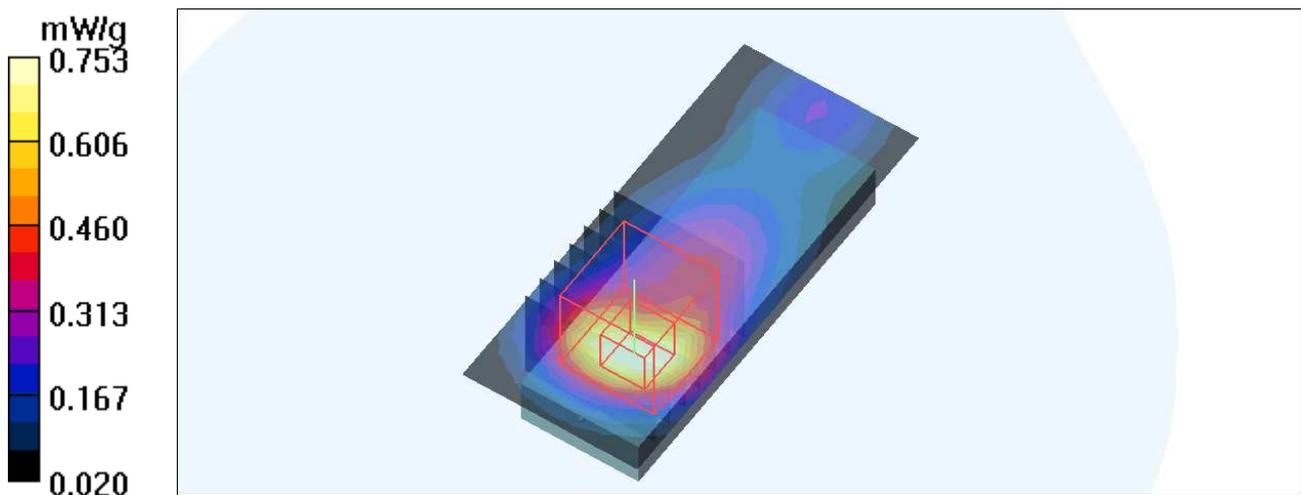Maximum value of SAR (measured) = 0.753 mW/g

**High Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 11.3 V/m; Power Drift = -0.104 dB
Peak SAR (extrapolated) = 1.17 W/kg
**SAR(1 g) = 0.555 mW/g; SAR(10 g) = 0.261 mW/g**
Maximum value of SAR (measured) = 0.722 mW/g

Test Laboratory: Bureau Veritas ADT

# M19-Horizontal-Down -10M-64QAM 1_2-Low Channel –Ant1

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 10M ; Frequency: 2501 MHz ; Duty Cycle: 1:3.2; Modulation type: 64QAM
Medium: MSL2600 Medium parameters used: f = 2501 MHz; $\sigma$ = 2.07 mho/m; $\varepsilon_r$ = 53.1; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Horizontal Down side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Low Channel/Area Scan (10x20x1):** Measurement grid: dx=5mm, dy=5mm
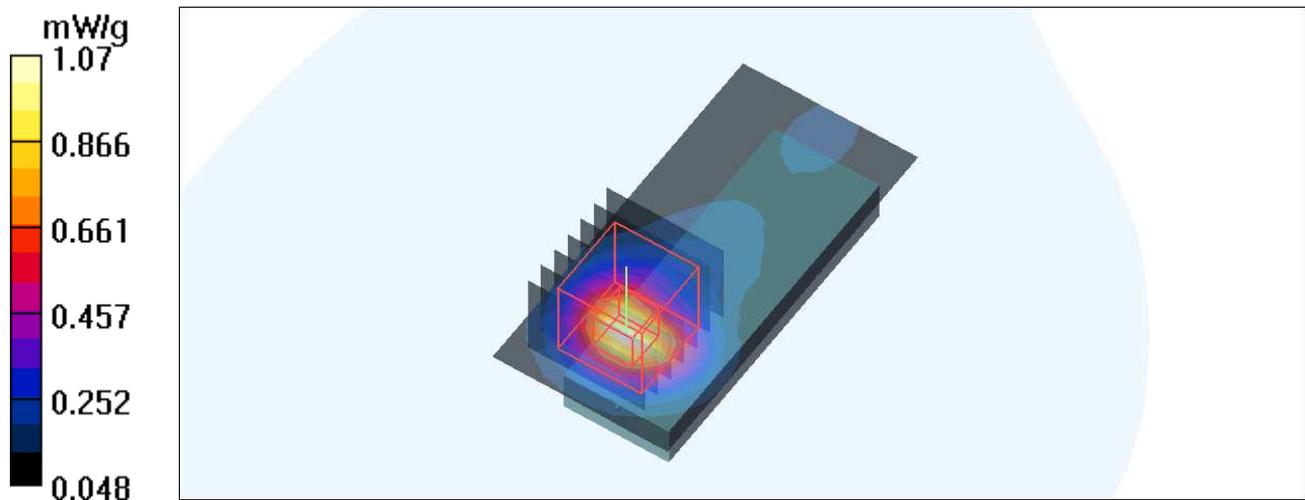Maximum value of SAR (measured) = 1.07 mW/g

**Low Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 14.1 V/m; Power Drift = 0.044 dB
Peak SAR (extrapolated) = 1.55 W/kg
**SAR(1 g) = 0.780 mW/g; SAR(10 g) = 0.375 mW/g**
Maximum value of SAR (measured) = 1.03 mW/g

Test Laboratory: Bureau Veritas ADT

## M19-Horizontal-Down -10M-64QAM 1_2-Mid Channel –Ant1

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 10M ; Frequency: 2600 MHz ; Duty Cycle: 1:3.2; Modulation type: 64QAM
Medium: MSL2600 Medium parameters used: f = 2600 MHz; $\sigma$ = 2.2 mho/m; $\varepsilon_r$ = 53; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Horizontal Down side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mid Channel/Area Scan (10x20x1):** Measurement grid: dx=5mm, dy=5mm
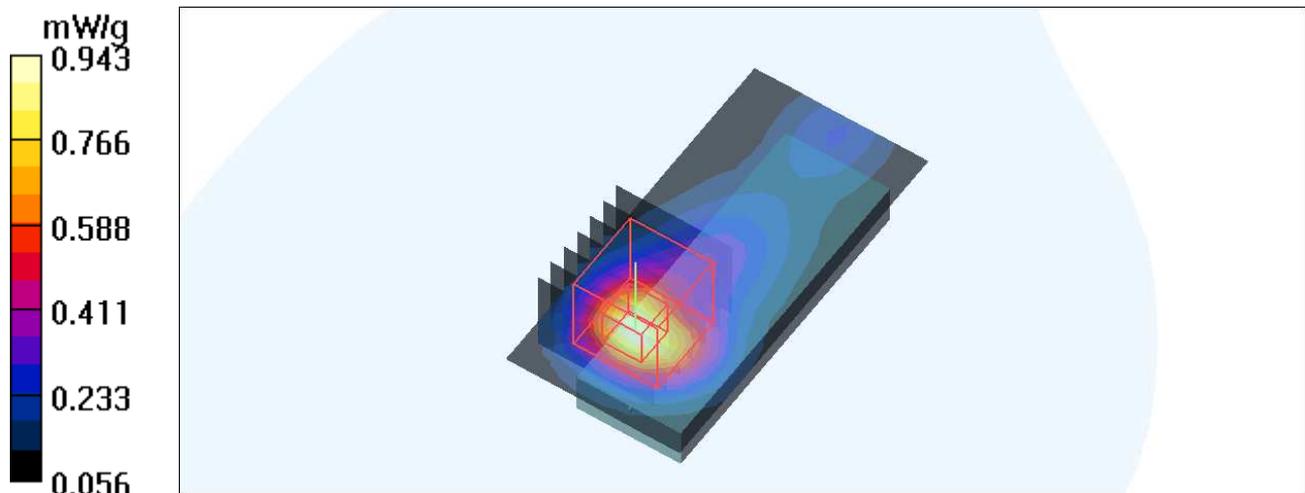Maximum value of SAR (measured) = 0.943 mW/g

**Mid Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 12.9 V/m; Power Drift = -0.120 dB
Peak SAR (extrapolated) = 1.36 W/kg
**SAR(1 g) = 0.695 mW/g; SAR(10 g) = 0.349 mW/g**
Maximum value of SAR (measured) = 0.898 mW/g

Test Laboratory: Bureau Veritas ADT

## M19-Horizontal-Down -10M-64QAM 1_2-High Channel –Ant1

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 10M ; Frequency: 2685 MHz ; Duty Cycle: 1:3.2; Modulation type: 64QAM
Medium: MSL2600 Medium parameters used: f = 2685 MHz; $\sigma$ = 2.25 mho/m; $\varepsilon_r$ = 52.8; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Horizontal Down side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**High Channel/Area Scan (10x20x1):** Measurement grid: dx=5mm, dy=5mm
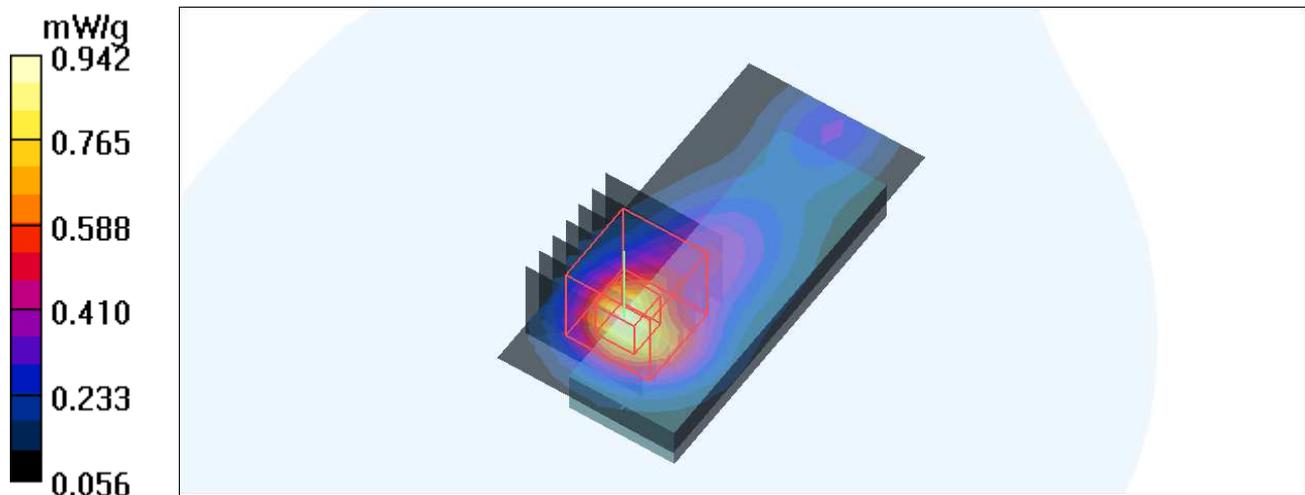Maximum value of SAR (measured) = 0.942 mW/g

**High Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 11.6 V/m; Power Drift = -0.002 dB
Peak SAR (extrapolated) = 1.40 W/kg
**SAR(1 g) = 0.684 mW/g; SAR(10 g) = 0.340 mW/g**
Maximum value of SAR (measured) = 0.897 mW/g

Test Laboratory: Bureau Veritas ADT

# M20-Horizontal-Down -10M-16QAM 1_2-Low Channel –Ant1

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 10M ; Frequency: 2501 MHz ; Duty Cycle: 1:3.2; Modulation type: 16QAM
Medium: MSL2600 Medium parameters used: f = 2501 MHz; $\sigma$ = 2.07 mho/m; $\varepsilon_r$ = 53.1; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Horizontal Down side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Low Channel/Area Scan (10x20x1):** Measurement grid: dx=5mm, dy=5mm
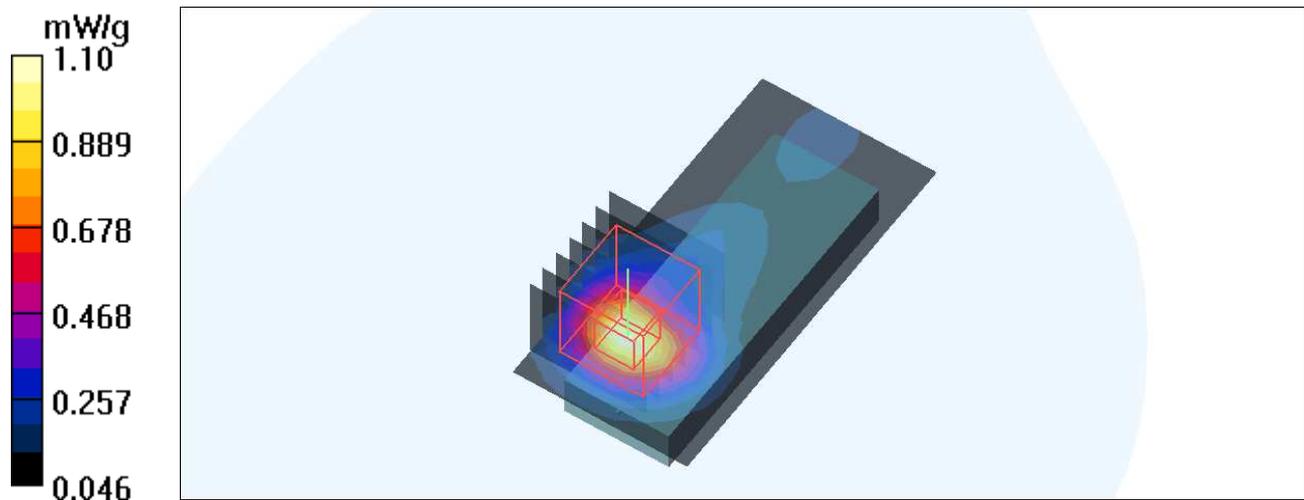Maximum value of SAR (measured) = 1.10 mW/g

**Low Channel 0/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 14.2 V/m; Power Drift = 0.082 dB
Peak SAR (extrapolated) = 1.57 W/kg
**SAR(1 g) = 0.792 mW/g; SAR(10 g) = 0.382 mW/g**
Maximum value of SAR (measured) = 1.04 mW/g

Test Laboratory: Bureau Veritas ADT

# M20-Horizontal-Down -10M-16QAM 1_2-Mid Channel –Ant1

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 10M ; Frequency: 2600 MHz ; Duty Cycle: 1:3.2; Modulation type: 16QAM
Medium: MSL2600 Medium parameters used: f = 2600 MHz; $\sigma$ = 2.2 mho/m; $\varepsilon_r$ = 53; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Horizontal Down side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mid Channel/Area Scan (10x20x1):** Measurement grid: dx=5mm, dy=5mm
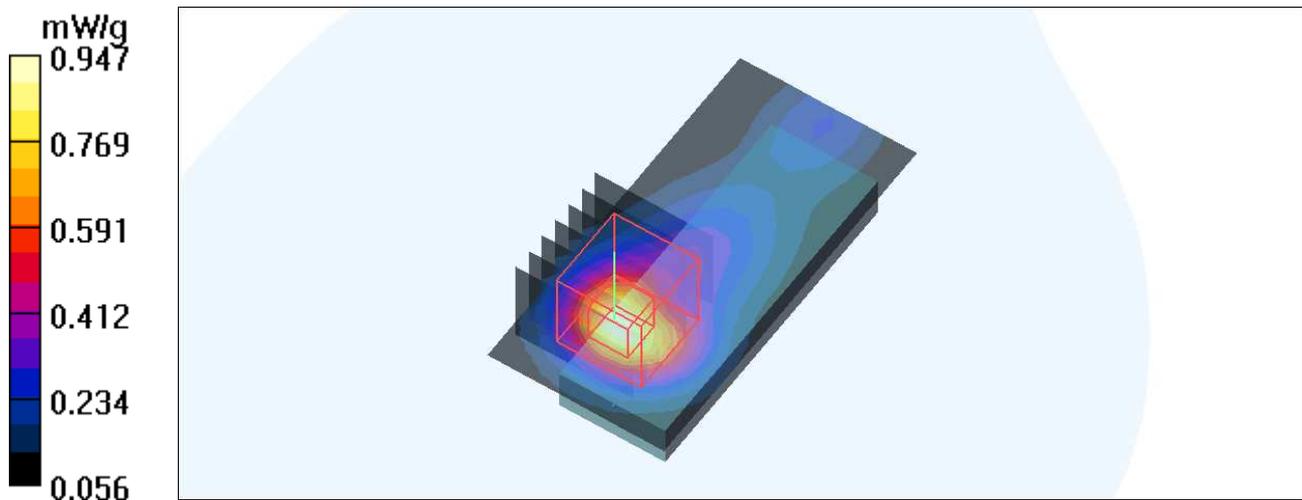Maximum value of SAR (measured) = 0.947 mW/g

**Mid Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 12.5 V/m; Power Drift = 0.027 dB
Peak SAR (extrapolated) = 1.41 W/kg
**SAR(1 g) = 0.707 mW/g; SAR(10 g) = 0.353 mW/g**
Maximum value of SAR (measured) = 0.911 mW/g

Test Laboratory: Bureau Veritas ADT

# M20-Horizontal-Down -10M-16QAM 1_2-High Channel –Ant1

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 10M ; Frequency: 2685 MHz ; Duty Cycle: 1:3.2; Modulation type: 16QAM
Medium: MSL2600 Medium parameters used: f = 2685 MHz; σ = 2.25 mho/m; $\varepsilon_r$ = 52.8; ρ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Horizontal Down side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**High Channel/Area Scan (10x20x1):** Measurement grid: dx=5mm, dy=5mm
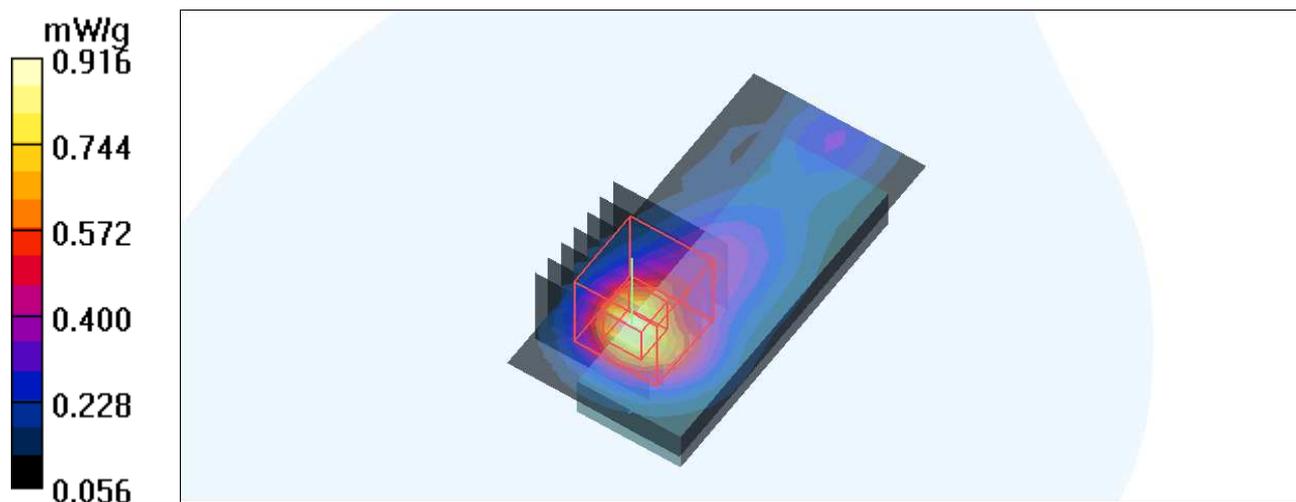Maximum value of SAR (measured) = 0.916 mW/g

**High Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 11.5 V/m; Power Drift = -0.055 dB
Peak SAR (extrapolated) = 1.35 W/kg
**SAR(1 g) = 0.661 mW/g; SAR(10 g) = 0.330 mW/g**
Maximum value of SAR (measured) = 0.865 mW/g

Test Laboratory: Bureau Veritas ADT

# M21-Horizontal-Down -10M-QPSK 1_2-Low Channel –Ant1

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 10M ; Frequency: 2501 MHz ; Duty Cycle: 1:3.2; Modulation type: QPSK
Medium: MSL2600 Medium parameters used: f = 2501 MHz; $\sigma$ = 2.07 mho/m; $\varepsilon_r$ = 53.1; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Horizontal Down side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Low Channel/Area Scan (10x20x1):** Measurement grid: dx=5mm, dy=5mm
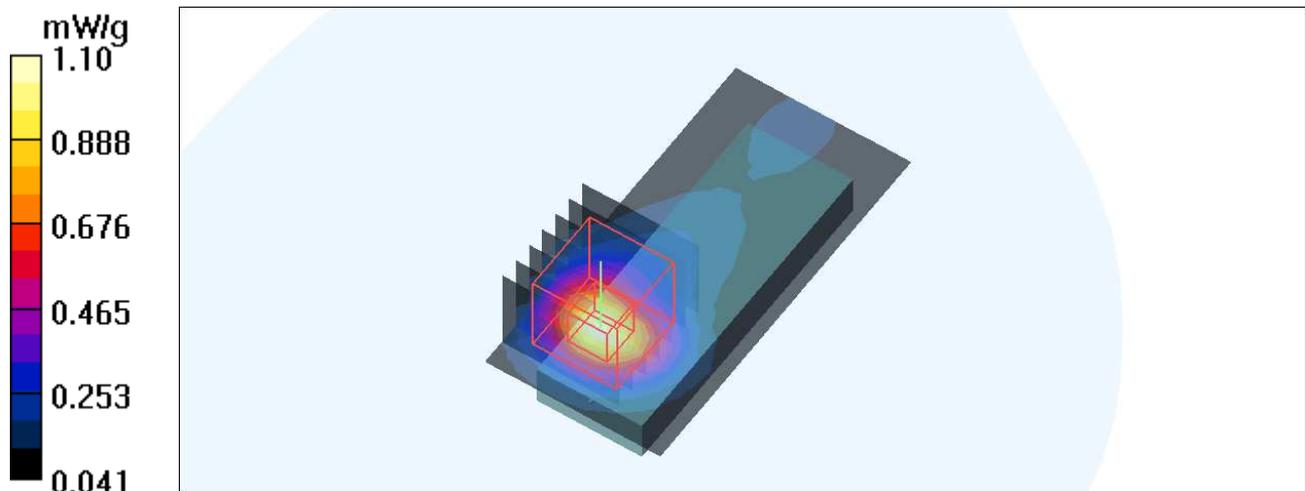Maximum value of SAR (measured) = 1.10 mW/g

**Low Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 14.5 V/m; Power Drift = -0.131 dB
Peak SAR (extrapolated) = 1.57 W/kg
**SAR(1 g) = 0.794 mW/g; SAR(10 g) = 0.382 mW/g**
Maximum value of SAR (measured) = 1.04 mW/g

Test Laboratory: Bureau Veritas ADT

## M21-Horizontal-Down -10M-QPSK 1_2-Mid Channel –Ant1

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 10M ; Frequency: 2600 MHz ; Duty Cycle: 1:3.2; Modulation type: QPSK
Medium: MSL2600 Medium parameters used: f = 2600 MHz; $\sigma$ = 2.2 mho/m; $\varepsilon_r$ = 53; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Horizontal Down side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mid Channel/Area Scan (10x20x1):** Measurement grid: dx=5mm, dy=5mm
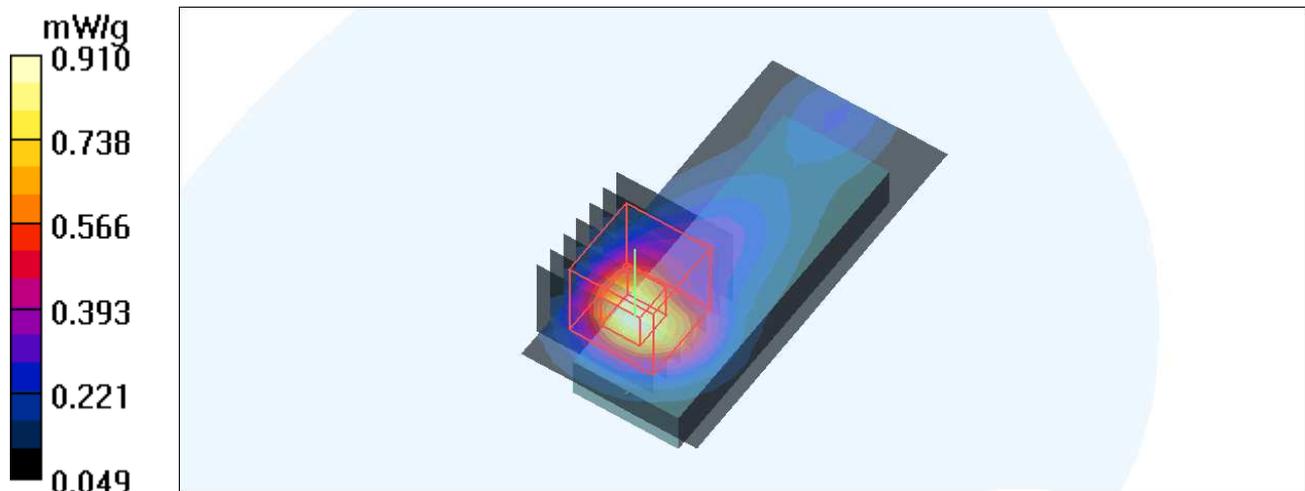Maximum value of SAR (measured) = 0.910 mW/g

**Mid Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 12.6 V/m; Power Drift = -0.106 dB
Peak SAR (extrapolated) = 1.32 W/kg
**SAR(1 g) = 0.671 mW/g; SAR(10 g) = 0.336 mW/g**
Maximum value of SAR (measured) = 0.872 mW/g

Test Laboratory: Bureau Veritas ADT

## M21-Horizontal-Down -10M-QPSK 1_2-High Channel –Ant1

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 10M ; Frequency: 2685 MHz ; Duty Cycle: 1:3.2; Modulation type: QPSK
Medium: MSL2600 Medium parameters used: f = 2685 MHz; $\sigma$ = 2.25 mho/m; $\varepsilon_r$ = 52.8; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Horizontal Down side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**High Channel/Area Scan (10x20x1):** Measurement grid: dx=5mm, dy=5mm
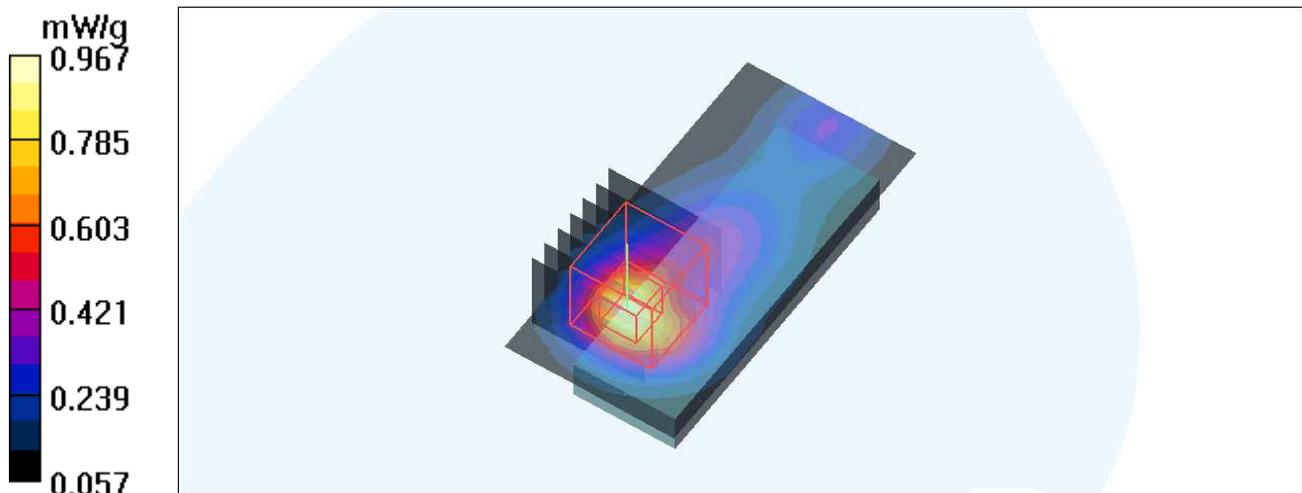Maximum value of SAR (measured) = 0.967 mW/g

**High Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 11.9 V/m; Power Drift = -0.185 dB
Peak SAR (extrapolated) = 1.42 W/kg
**SAR(1 g) = 0.699 mW/g; SAR(10 g) = 0.347 mW/g**
Maximum value of SAR (measured) = 0.913 mW/g

Test Laboratory: Bureau Veritas ADT

# M22-Horizontal-Down -10M-64QAM 1_2-Low Channel –Ant2

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 10M ; Frequency: 2501 MHz ; Duty Cycle: 1:3.2; Modulation type: 64QAM
Medium: MSL2600 Medium parameters used: f = 2501 MHz; $\sigma$ = 2.07 mho/m; $\varepsilon_r$ = 53.1; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Horizontal Down side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Low Channel/Area Scan (10x20x1):** Measurement grid: dx=5mm, dy=5mm
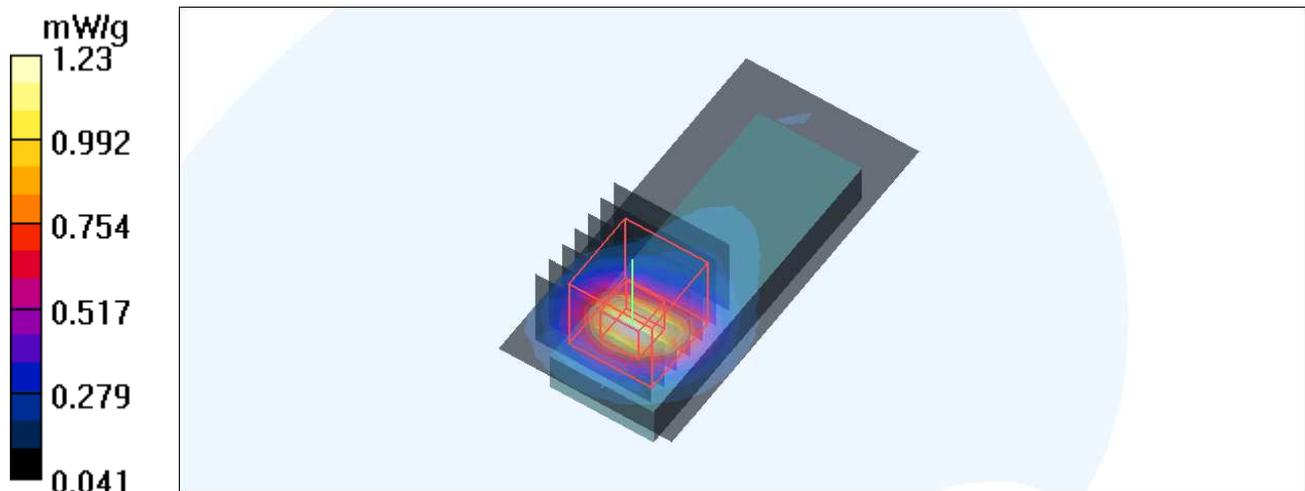Maximum value of SAR (measured) = 1.23 mW/g

**Low Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 15.1 V/m; Power Drift = 0.022 dB
Peak SAR (extrapolated) = 1.80 W/kg
**SAR(1 g) = 0.885 mW/g; SAR(10 g) = 0.418 mW/g**
Maximum value of SAR (measured) = 1.16 mW/g

Test Laboratory: Bureau Veritas ADT

# M22-Horizontal-Down -10M-64QAM 1_2-Mid Channel –Ant2

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**

Communication System: Wimax_2.6GHz 10M ; Frequency: 2600 MHz ; Duty Cycle: 1:3.2; Modulation type: 64QAM

Medium: MSL2600 Medium parameters used: f = 2600 MHz; $\sigma$ = 2.2 mho/m; $\varepsilon_r$ = 53; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section ; Separation distance : 5 mm (The Horizontal Down side of the EUT to the Phantom)

DASY4 Configuration:

- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mid Channel/Area Scan (10x20x1):** Measurement grid: dx=5mm, dy=5mm
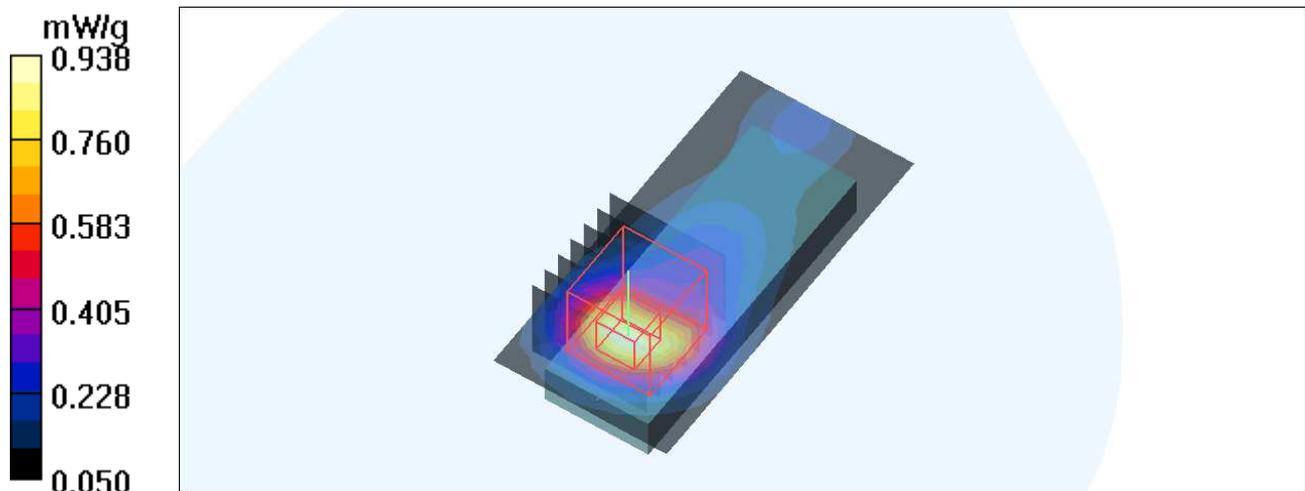
Maximum value of SAR (measured) = 0.938 mW/g

**Mid Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 13.0 V/m; Power Drift = -0.113 dB

Peak SAR (extrapolated) = 1.39 W/kg

**SAR(1 g) = 0.686 mW/g; SAR(10 g) = 0.340 mW/g**

Maximum value of SAR (measured) = 0.889 mW/g

Test Laboratory: Bureau Veritas ADT

# M22-Horizontal-Down -10M-64QAM 1_2-High Channel –Ant2

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 10M ; Frequency: 2685 MHz ; Duty Cycle: 1:3.2; Modulation type: 64QAM
Medium: MSL2600 Medium parameters used: f = 2685 MHz; $\sigma$ = 2.25 mho/m; $\varepsilon_r$ = 52.8; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Horizontal Down side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**High Channel/Area Scan (10x20x1):** Measurement grid: dx=5mm, dy=5mm
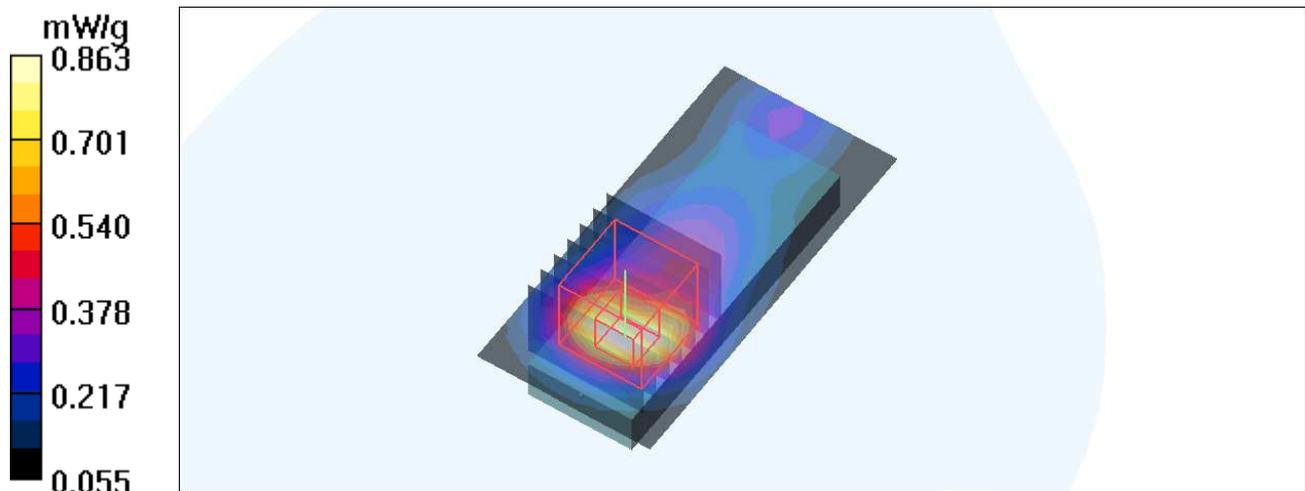Maximum value of SAR (measured) = 0.863 mW/g

**High Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 12.1 V/m; Power Drift = -0.131 dB
Peak SAR (extrapolated) = 1.32 W/kg
**SAR(1 g) = 0.653 mW/g; SAR(10 g) = 0.335 mW/g**
Maximum value of SAR (measured) = 0.835 mW/g

Test Laboratory: Bureau Veritas ADT

## M23-Horizontal-Down -10M-16QAM 1_2-Low Channel –Ant2

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 10M ; Frequency: 2501 MHz ; Duty Cycle: 1:3.2; Modulation type: 16QAM
Medium: MSL2600 Medium parameters used: f = 2501 MHz; $\sigma$ = 2.07 mho/m; $\varepsilon_r$ = 53.1; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Horizontal Down side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Low Channel/Area Scan (10x20x1):** Measurement grid: dx=5mm, dy=5mm
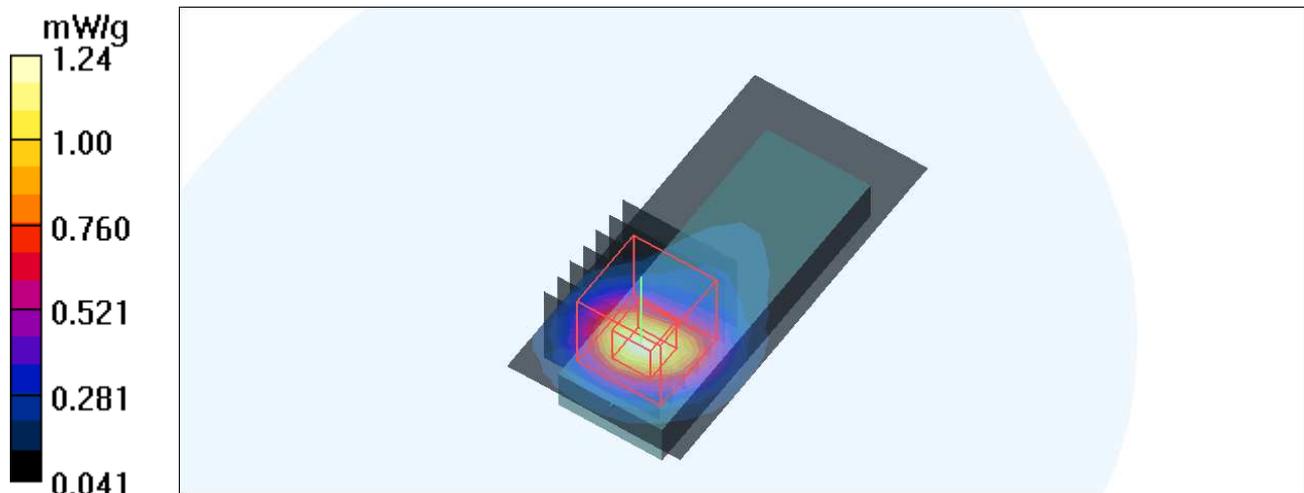Maximum value of SAR (measured) = 1.24 mW/g

**Low Channel/Zoom Scan (7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 15.6 V/m; Power Drift = -0.152 dB
Peak SAR (extrapolated) = 1.81 W/kg
**SAR(1 g) = 0.888 mW/g; SAR(10 g) = 0.420 mW/g**
Maximum value of SAR (measured) = 1.17 mW/g

Test Laboratory: Bureau Veritas ADT

# M23-Horizontal-Down -10M-16QAM 1_2-Mid Channel –Ant2

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 10M ; Frequency: 2600 MHz ; Duty Cycle: 1:3.2; Modulation type: 16QAM
Medium: MSL2600 Medium parameters used: f = 2600 MHz; $\sigma$ = 2.2 mho/m; $\varepsilon_r$ = 53; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Horizontal Down side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mid Channel/Area Scan (10x20x1):** Measurement grid: dx=5mm, dy=5mm
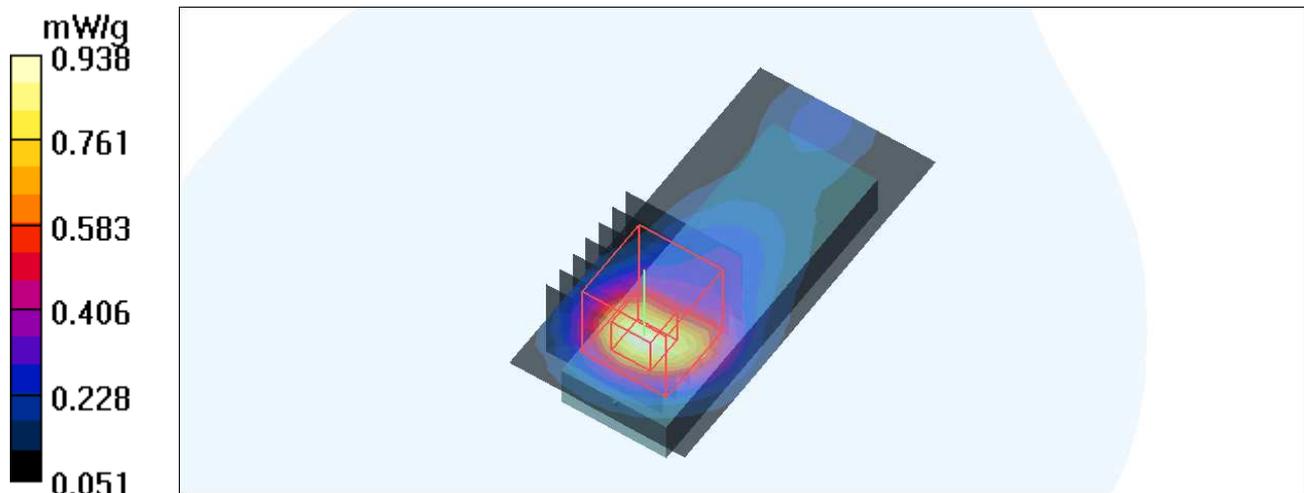Maximum value of SAR (measured) = 0.938 mW/g

**Mid Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 13.1 V/m; Power Drift = -0.191 dB
Peak SAR (extrapolated) = 1.38 W/kg
**SAR(1 g) = 0.682 mW/g; SAR(10 g) = 0.338 mW/g**
Maximum value of SAR (measured) = 0.885 mW/g

Test Laboratory: Bureau Veritas ADT

# M23-Horizontal-Down -10M-16QAM 1_2-High Channel –Ant2

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 10M ; Frequency: 2685 MHz ; Duty Cycle: 1:3.2; Modulation type: 16QAM
Medium: MSL2600 Medium parameters used: f = 2685 MHz; $\sigma$ = 2.25 mho/m; $\varepsilon_r$ = 52.8; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Horizontal Down side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**High Channel/Area Scan (10x20x1):** Measurement grid: dx=5mm, dy=5mm
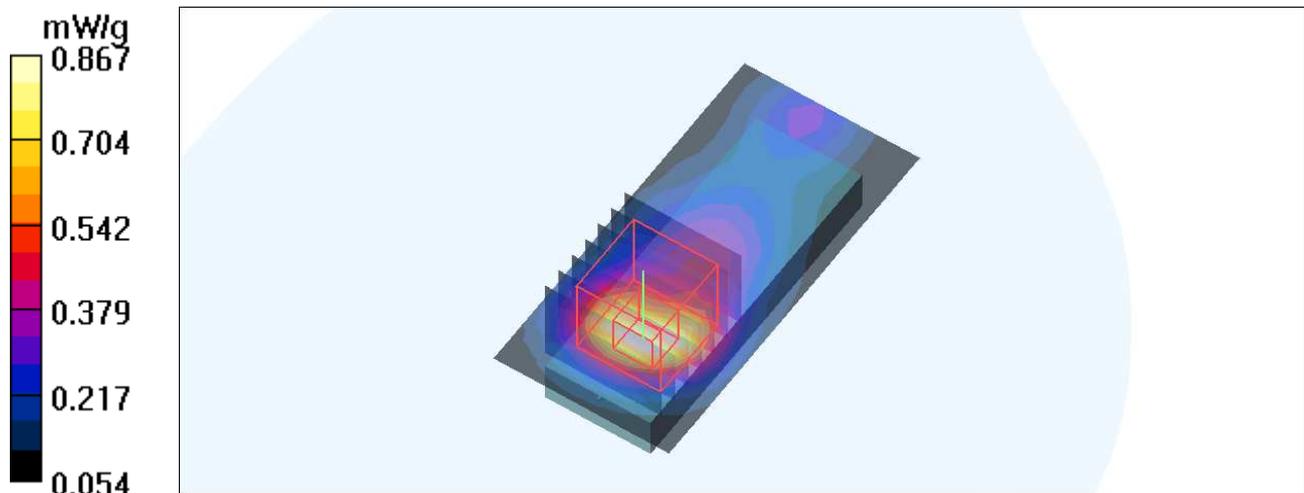Maximum value of SAR (measured) = 0.867 mW/g

**High Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 12.3 V/m; Power Drift = -0.163 dB
Peak SAR (extrapolated) = 1.31 W/kg
**SAR(1 g) = 0.653 mW/g; SAR(10 g) = 0.336 mW/g**
Maximum value of SAR (measured) = 0.830 mW/g

Test Laboratory: Bureau Veritas ADT

## M24-Horizontal-Down -10M-QPSK 1_2-Low Channel –Ant2

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**

Communication System: Wimax_2.6GHz 10M ; Frequency: 2501 MHz ; Duty Cycle: 1:3.2; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: f = 2501 MHz; $\sigma$ = 2.07 mho/m; $\varepsilon_r$ = 53.1; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section ; Separation distance : 5 mm (The Horizontal Down side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Low Channel/Area Scan (10x20x1):** Measurement grid: dx=5mm, dy=5mm
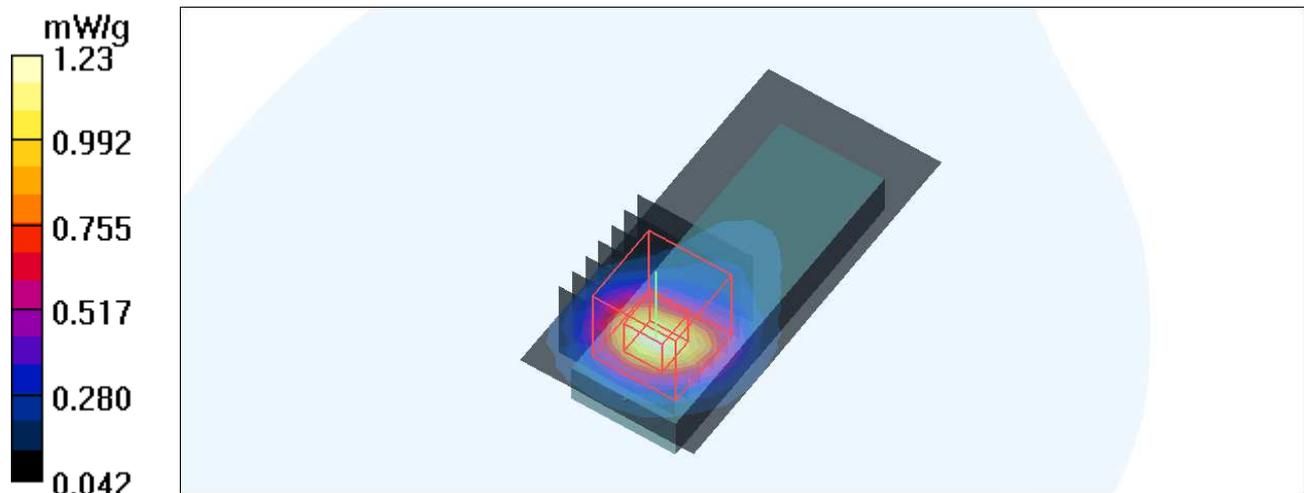
Maximum value of SAR (measured) = 1.23 mW/g

**Low Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 15.4 V/m; Power Drift = -0.041 dB

Peak SAR (extrapolated) = 1.79 W/kg

**SAR(1 g) = 0.884 mW/g; SAR(10 g) = 0.417 mW/g**

Maximum value of SAR (measured) = 1.16 mW/g

Test Laboratory: Bureau Veritas ADT

# M24-Horizontal-Down -10M-QPSK 1_2-Mid Channel –Ant2

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 10M ; Frequency: 2600 MHz ; Duty Cycle: 1:3.2; Modulation type: QPSK
Medium: MSL2600 Medium parameters used: f = 2600 MHz; $\sigma$ = 2.2 mho/m; $\varepsilon_r$ = 53; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Horizontal Down side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mid Channel/Area Scan (10x20x1):** Measurement grid: dx=5mm, dy=5mm
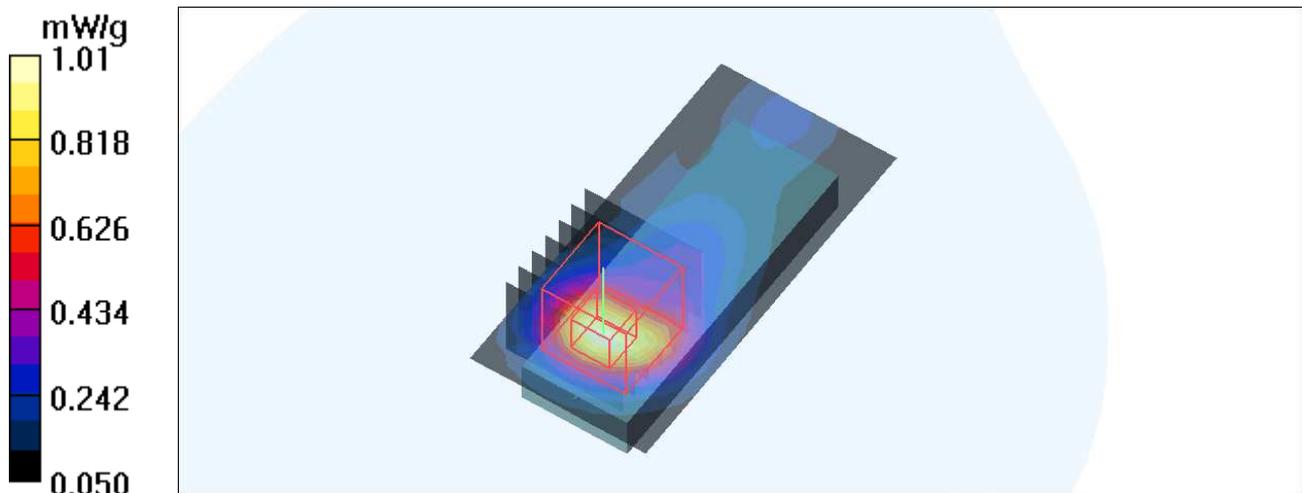Maximum value of SAR (measured) = 1.01 mW/g

**Mid Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 13.4 V/m; Power Drift = -0.020 dB
Peak SAR (extrapolated) = 1.49 W/kg
**SAR(1 g) = 0.730 mW/g; SAR(10 g) = 0.361 mW/g**
Maximum value of SAR (measured) = 0.955 mW/g

Test Laboratory: Bureau Veritas ADT

# M24-Horizontal-Down -10M-QPSK 1_2-High Channel –Ant2

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 10M ; Frequency: 2685 MHz ; Duty Cycle: 1:3.2; Modulation type: QPSK
Medium: MSL2600 Medium parameters used: f = 2685 MHz; $\sigma$ = 2.25 mho/m; $\varepsilon_r$ = 52.8; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Horizontal Down side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**High Channel/Area Scan (10x20x1):** Measurement grid: dx=5mm, dy=5mm
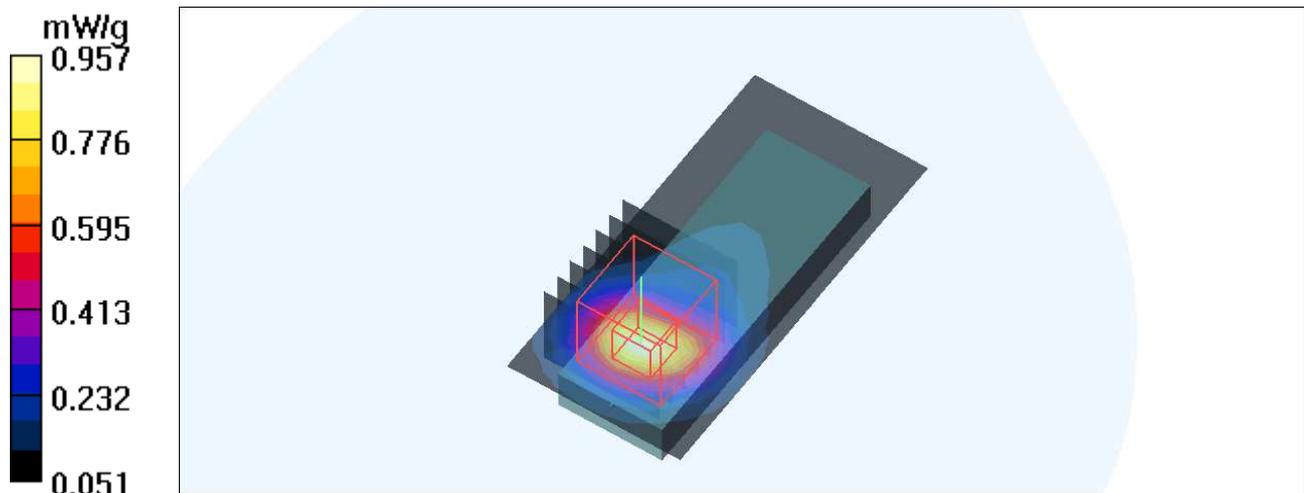Maximum value of SAR (measured) = 0.957 mW/g

**High Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 11.6 V/m; Power Drift = -0.027 dB
Peak SAR (extrapolated) = 1.43 W/kg
**SAR(1 g) = 0.696 mW/g; SAR(10 g) = 0.344 mW/g**
Maximum value of SAR (measured) = 0.910 mW/g

Test Laboratory: Bureau Veritas ADT

# M25- Vertical -Front -5M-64QAM 1_2-Low Channel –Ant1

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 5M ; Frequency: 2498.5 MHz ; Duty Cycle: 1:3.2; Modulation type: 64QAM
Medium: MSL2450 Medium parameters used: f = 2498.5 MHz; $\sigma$ = 2.07 mho/m; $\varepsilon_r$ = 53.5; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Vertical Front   side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.2, 8.2, 8.2) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Low Channel /Area Scan (7x20x1):** Measurement grid: dx=5mm, dy=5mm
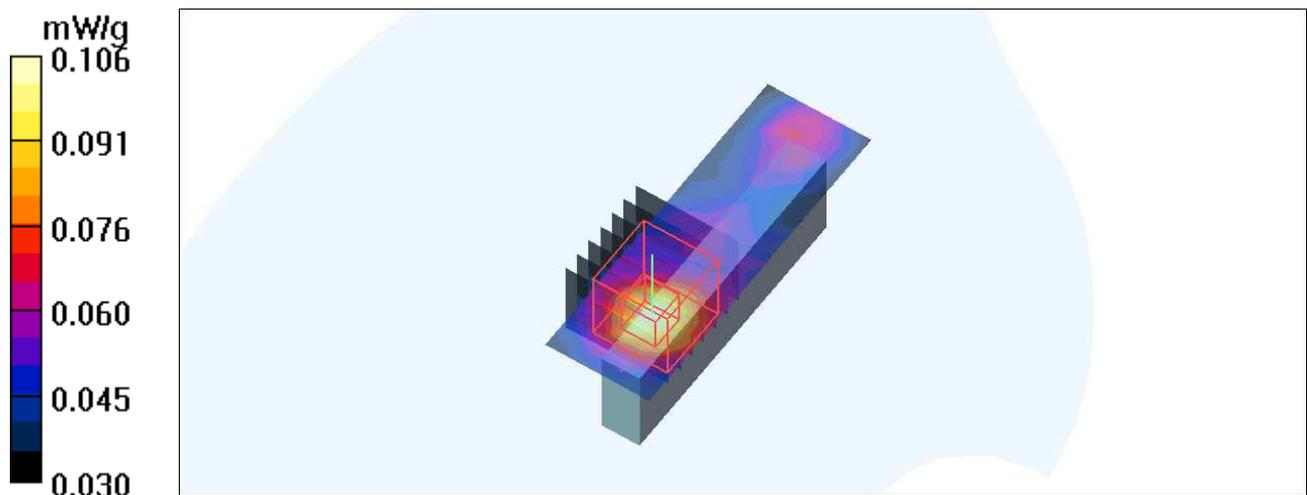Maximum value of SAR (measured) = 0.106 mW/g

**Low Channel /Zoom Scan (7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 6.60 V/m; Power Drift = 0.101 dB
Peak SAR (extrapolated) = 0.172 W/kg
**SAR(1 g) = 0.080 mW/g; SAR(10 g) = 0.052 mW/g**
Maximum value of SAR (measured) = 0.100 mW/g

Test Laboratory: Bureau Veritas ADT

## M26- Vertical -Front -5M-16QAM 1_2-Mid Channel –Ant1

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 5M ; Frequency: 2600 MHz ; Duty Cycle: 1:3.2; Modulation type: 16QAM
Medium: MSL2600 Medium parameters used: f = 2600 MHz; $\sigma$ = 2.22 mho/m; $\varepsilon_r$ = 53.3; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Vertical Front   side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mid Channel/Area Scan (7x20x1):** Measurement grid: dx=5mm, dy=5mm
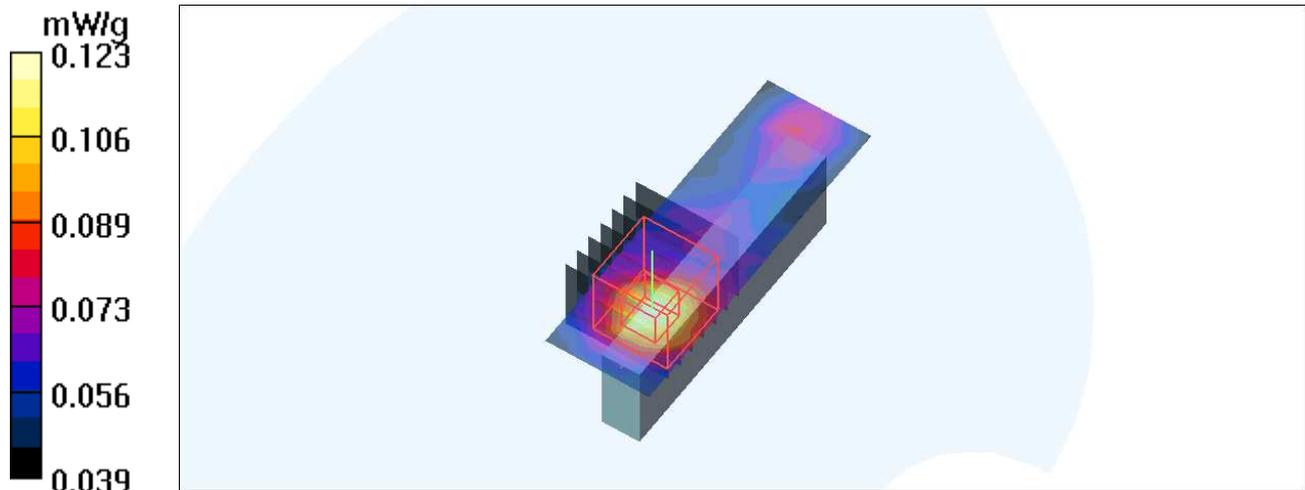Maximum value of SAR (measured) = 0.123 mW/g

**Mid Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 7.10 V/m; Power Drift = -0.189 dB
Peak SAR (extrapolated) = 0.206 W/kg
**SAR(1 g) = 0.104 mW/g; SAR(10 g) = 0.070 mW/g**
Maximum value of SAR (measured) = 0.122 mW/g

Test Laboratory: Bureau Veritas ADT

## M27- Vertical -Front -5M-QPSK 1_2-High Channel –Ant1

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 5M ; Frequency: 2687.5 MHz ; Duty Cycle: 1:3.2; Modulation type: QPSK
Medium: MSL2600 Medium parameters used: f = 2687.5 MHz; σ = 2.27 mho/m; $\varepsilon_r$ = 53; ρ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Vertical Front   side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**High Channel/Area Scan (7x20x1):** Measurement grid: dx=5mm, dy=5mm
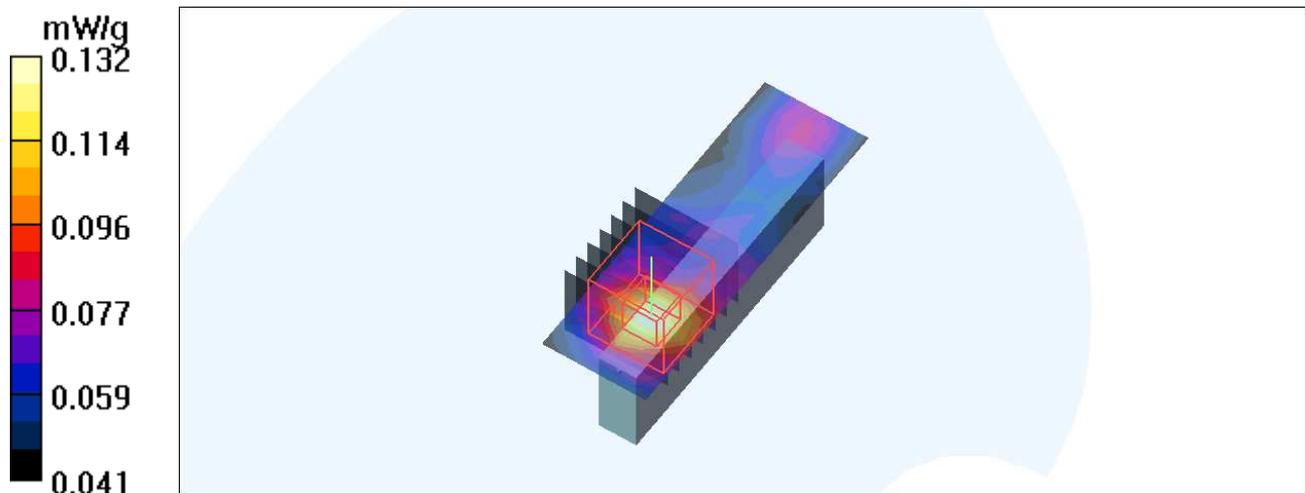Maximum value of SAR (measured) = 0.132 mW/g

**High Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 6.80 V/m; Power Drift = -0.196 dB
Peak SAR (extrapolated) = 0.192 W/kg
**SAR(1 g) = 0.109 mW/g; SAR(10 g) = 0.076 mW/g**
Maximum value of SAR (measured) = 0.129 mW/g

Test Laboratory: Bureau Veritas ADT

## M28- Vertical -Front -5M-64QAM 1_2-High Channel –Ant2

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 5M ; Frequency: 2687.5 MHz ; Duty Cycle: 1:3.2; Modulation type: 64QAM
Medium: MSL2600 Medium parameters used: f = 2687.5 MHz; $\sigma$ = 2.27 mho/m; $\varepsilon_r$ = 53; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Vertical Front   side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**High Channel/Area Scan (7x20x1):** Measurement grid: dx=5mm, dy=5mm
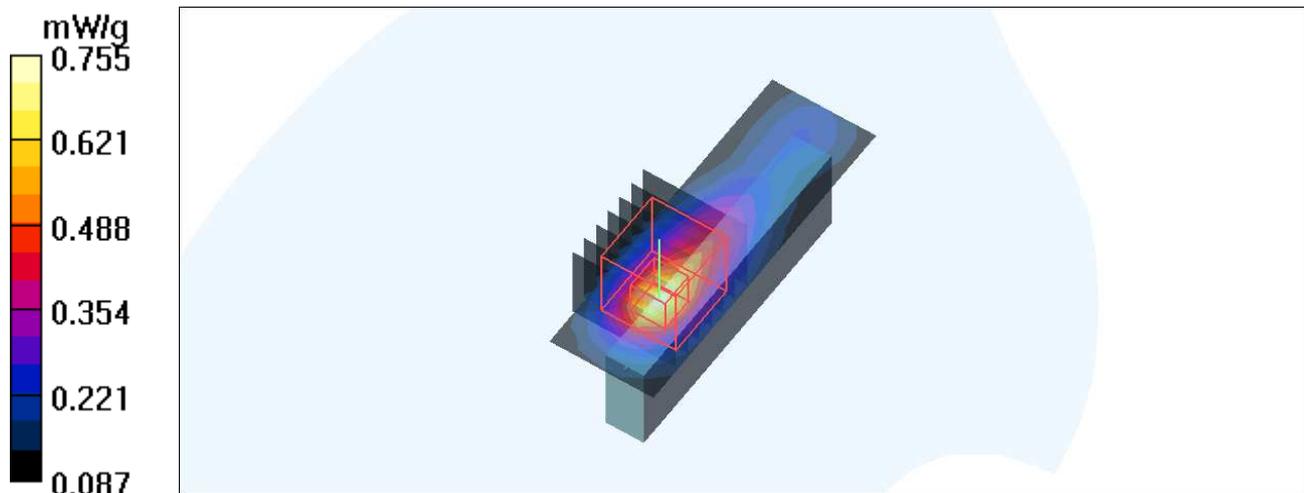Maximum value of SAR (measured) = 0.755 mW/g

**High Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 11.8 V/m; Power Drift = -0.125 dB
Peak SAR (extrapolated) = 1.18 W/kg
**SAR(1 g) = 0.557 mW/g; SAR(10 g) = 0.264 mW/g**
Maximum value of SAR (measured) = 0.748 mW/g

Test Laboratory: Bureau Veritas ADT

## M29- Vertical -Front -5M-16QAM 1_2-Mid Channel –Ant2

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 5M ; Frequency: 2600 MHz ; Duty Cycle: 1:3.2; Modulation type: 16QAM
Medium: MSL2600 Medium parameters used: f = 2600 MHz; $\sigma$ = 2.22 mho/m; $\varepsilon_r$ = 53.3; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Vertical Front   side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mid Channel/Area Scan (7x20x1):** Measurement grid: dx=5mm, dy=5mm
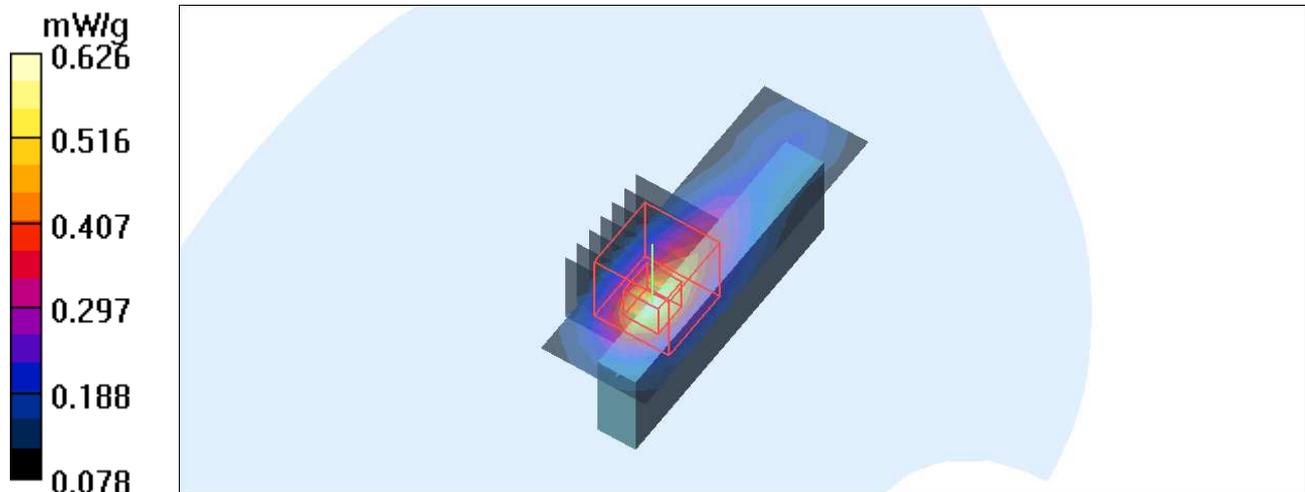Maximum value of SAR (measured) = 0.626 mW/g

**Mid Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 11.1 V/m; Power Drift = -0.105 dB
Peak SAR (extrapolated) = 0.976 W/kg
**SAR(1 g) = 0.469 mW/g; SAR(10 g) = 0.229 mW/g**

Test Laboratory: Bureau Veritas ADT

## M30- Vertical -Front -5M-QPSK 1_2-Low Channel –Ant2

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 5M ; Frequency: 2498.5 MHz ; Duty Cycle: 1:3.2; Modulation type: QPSK
Medium: MSL2450 Medium parameters used: f = 2498.5 MHz; σ = 2.07 mho/m; $\varepsilon_r$ = 53.5; ρ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Vertical Front   side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.2, 8.2, 8.2) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Low Channel/Area Scan (7x20x1):** Measurement grid: dx=5mm, dy=5mm
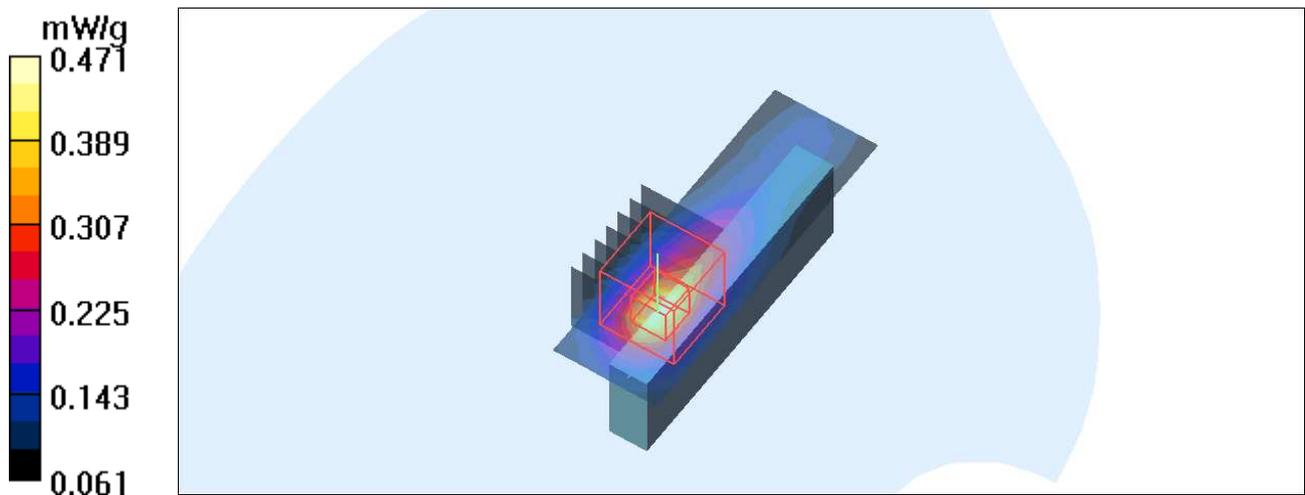Maximum value of SAR (measured) = 0.471 mW/g

**Low Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 10.8 V/m; Power Drift = -0.014 dB
Peak SAR (extrapolated) = 0.722 W/kg
**SAR(1 g) = 0.359 mW/g; SAR(10 g) = 0.180 mW/g**
Maximum value of SAR (measured) = 0.472 mW/g

Test Laboratory: Bureau Veritas ADT

# M31- Vertical -Front -10M-64QAM 1_2-High Channel –Ant1

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 10M ; Frequency: 2685 MHz ; Duty Cycle: 1:3.2; Modulation type: 64QAM
Medium: MSL2600 Medium parameters used: f = 2685 MHz; $\sigma$ = 2.26 mho/m; $\varepsilon_r$ = 53.1; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Vertical Front   side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**High Channel/Area Scan (7x20x1):** Measurement grid: dx=5mm, dy=5mm
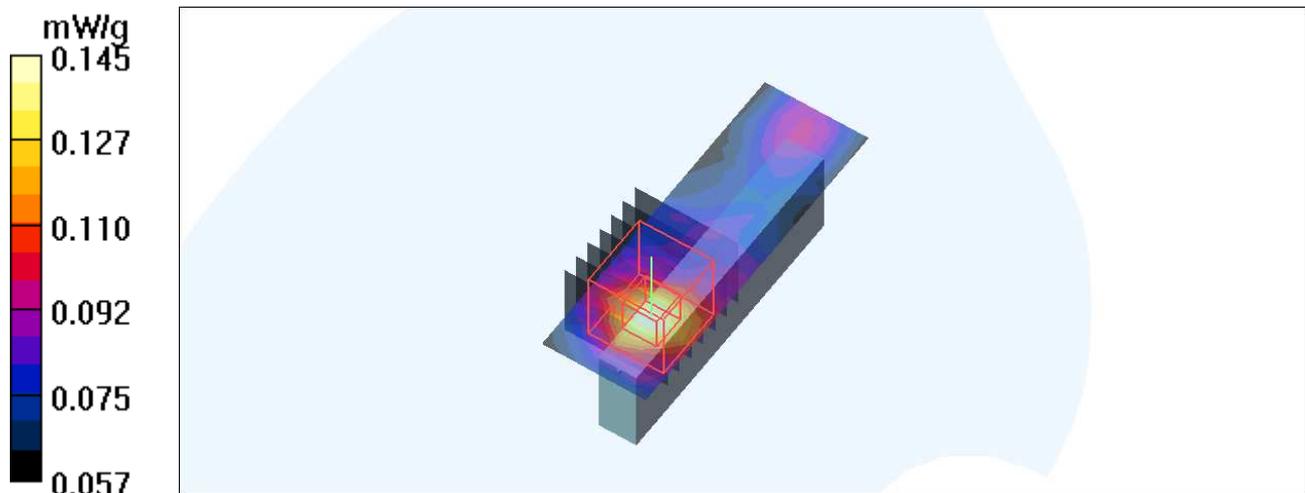Maximum value of SAR (measured) = 0.145 mW/g

**High Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 7.22 V/m; Power Drift = -0.182 dB
Peak SAR (extrapolated) = 0.280 W/kg
**SAR(1 g) = 0.125 mW/g; SAR(10 g) = 0.083 mW/g**
Maximum value of SAR (measured) = 0.150 mW/g

Test Laboratory: Bureau Veritas ADT

## M32- Vertical -Front -10M-16QAM 1_2-Mid Channel –Ant1

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 10M ; Frequency: 2600 MHz ; Duty Cycle: 1:3.2; Modulation type: 16QAM
Medium: MSL2600 Medium parameters used: f = 2600 MHz; $\sigma$ = 2.22 mho/m; $\varepsilon_r$ = 53.3; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Vertical Front   side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

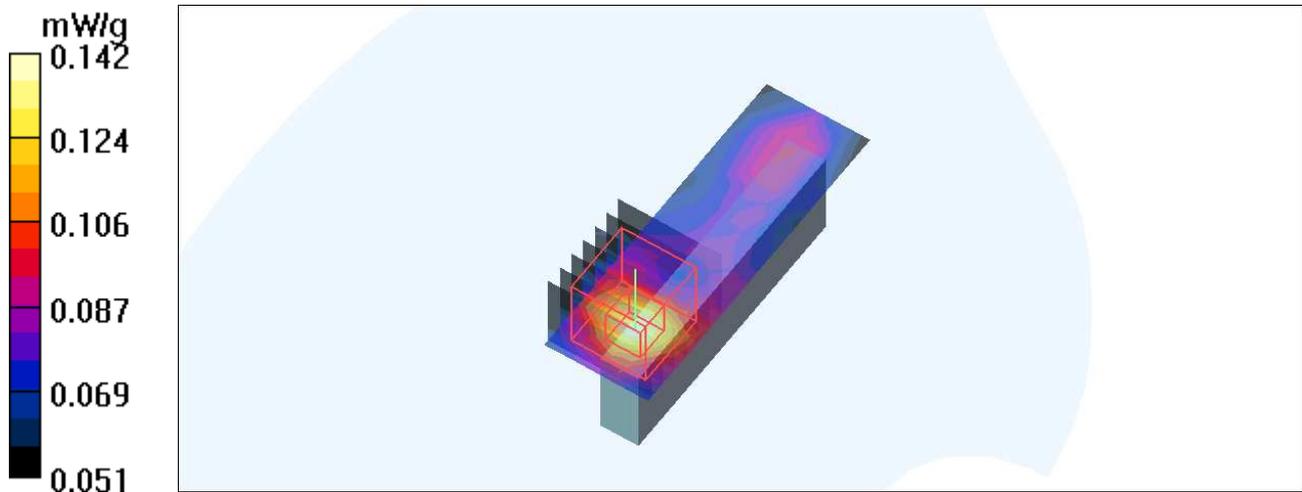**Mid Channel/Area Scan (7x20x1):** Measurement grid: dx=5mm, dy=5mm
Maximum value of SAR (measured) = 0.142 mW/g

**Mid Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 7.54 V/m; Power Drift = -0.112 dB
Peak SAR (extrapolated) = 0.226 W/kg
**SAR(1 g) = 0.118 mW/g; SAR(10 g) = 0.077 mW/g**

Test Laboratory: Bureau Veritas ADT

## M33- Vertical -Front -10M-QPSK 1_2-Mid Channel –Ant1

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 10M ; Frequency: 2600 MHz ; Duty Cycle: 1:3.2; Modulation type: QPSK
Medium: MSL2600 Medium parameters used: f = 2600 MHz; $\sigma$ = 2.22 mho/m; $\varepsilon_r$ = 53.3; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Vertical Front   side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mid Channel/Area Scan (7x20x1):** Measurement grid: dx=5mm, dy=5mm
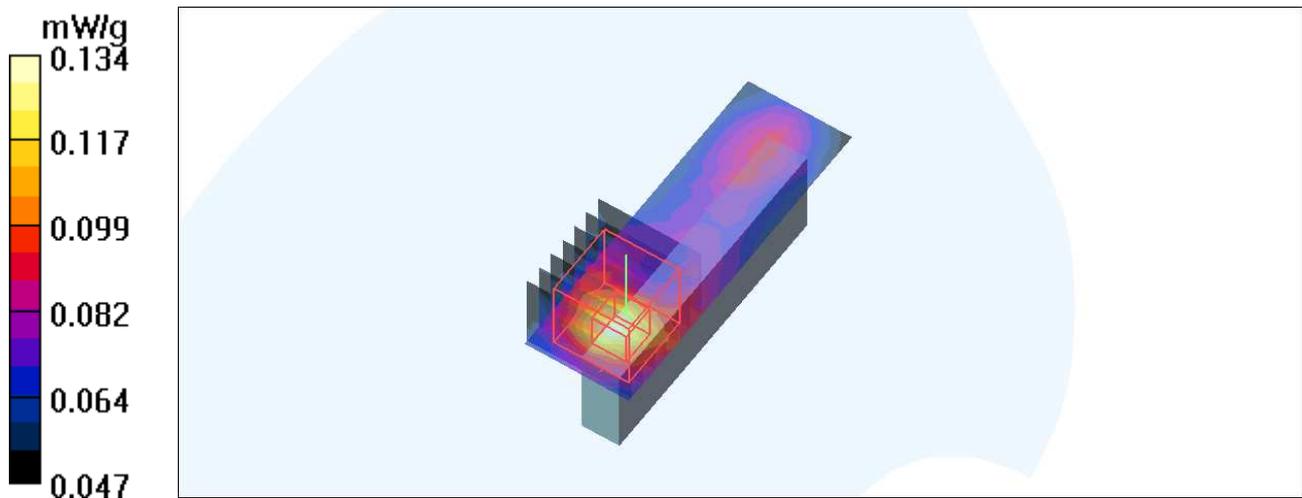Maximum value of SAR (measured) = 0.134 mW/g

**Mid Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 7.27 V/m; Power Drift = -0.106 dB
Peak SAR (extrapolated) = 0.221 W/kg
**SAR(1 g) = 0.110 mW/g; SAR(10 g) = 0.073 mW/g**
Maximum value of SAR (measured) = 0.130 mW/g

Test Laboratory: Bureau Veritas ADT

## M34- Vertical -Front -10M-64QAM 1_2-High Channel –Ant2

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 10M ; Frequency: 2685 MHz ; Duty Cycle: 1:3.2; Modulation type: 64QAM
Medium: MSL2600 Medium parameters used: f = 2685 MHz; σ = 2.26 mho/m; $\varepsilon_r$ = 53.1; ρ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Vertical Front   side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
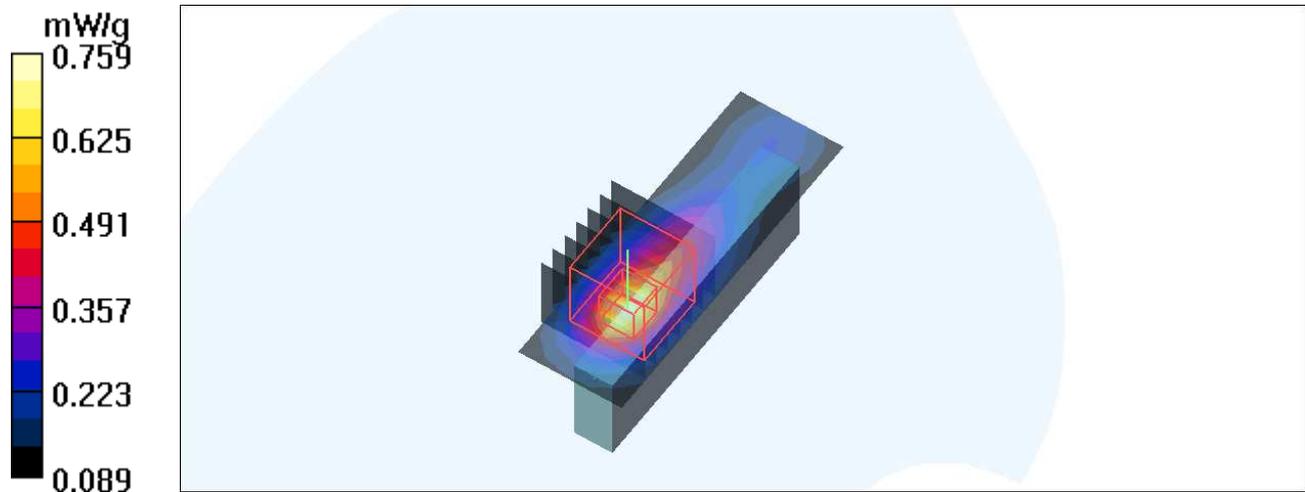- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**High Channel/Area Scan (7x20x1):** Measurement grid: dx=5mm, dy=5mm
Maximum value of SAR (measured) = 0.759 mW/g

**High Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 11.7 V/m; Power Drift = -0.134 dB
Peak SAR (extrapolated) = 1.20 W/kg
**SAR(1 g) = 0.564 mW/g; SAR(10 g) = 0.267 mW/g**

Test Laboratory: Bureau Veritas ADT

## M35- Vertical -Front -10M-16QAM 1_2-Low Channel –Ant2

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 10M ; Frequency: 2501 MHz ; Duty Cycle: 1:3.2; Modulation type: 16QAM
Medium: MSL2600 Medium parameters used: f = 2501 MHz; $\sigma$ = 2.09 mho/m; $\varepsilon_r$ = 53.5; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Vertical Front   side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Low Channel/Area Scan (7x20x1):** Measurement grid: dx=5mm, dy=5mm
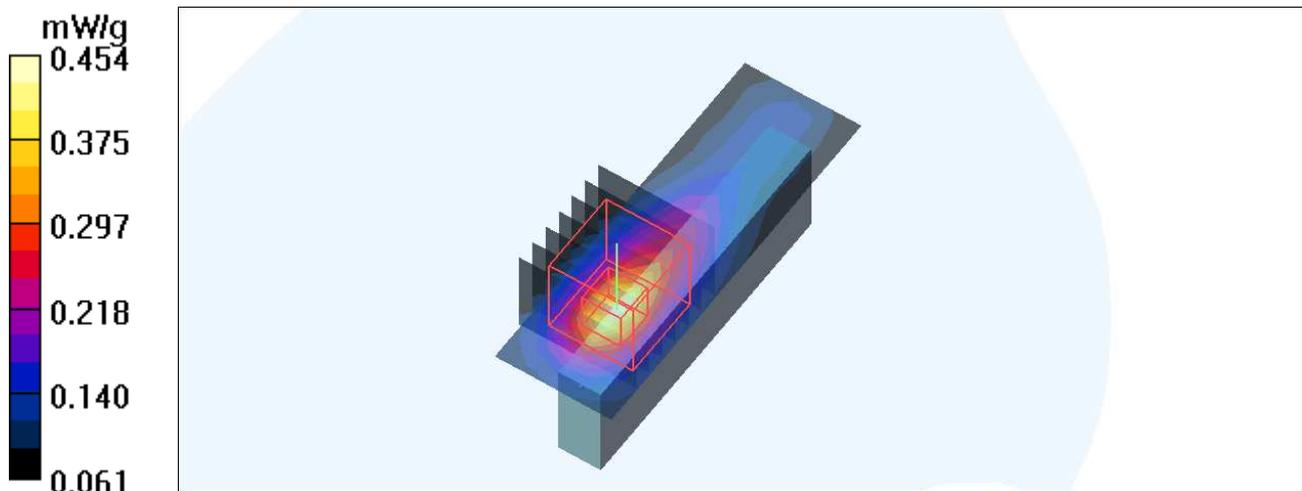Maximum value of SAR (measured) = 0.454 mW/g

**Low Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 10.5 V/m; Power Drift = -0.066 dB
Peak SAR (extrapolated) = 0.690 W/kg
**SAR(1 g) = 0.344 mW/g; SAR(10 g) = 0.173 mW/g**
Maximum value of SAR (measured) = 0.458 mW/g

Test Laboratory: Bureau Veritas ADT

## M36- Vertical -Front -10M-QPSK 1_2-Mid Channel –Ant2

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 10M ; Frequency: 2600 MHz ; Duty Cycle: 1:3.2; Modulation type: QPSK
Medium: MSL2600 Medium parameters used: f = 2600 MHz; $\sigma$ = 2.22 mho/m; $\varepsilon_r$ = 53.3; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Vertical Front   side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mid Channel/Area Scan (7x20x1):** Measurement grid: dx=5mm, dy=5mm
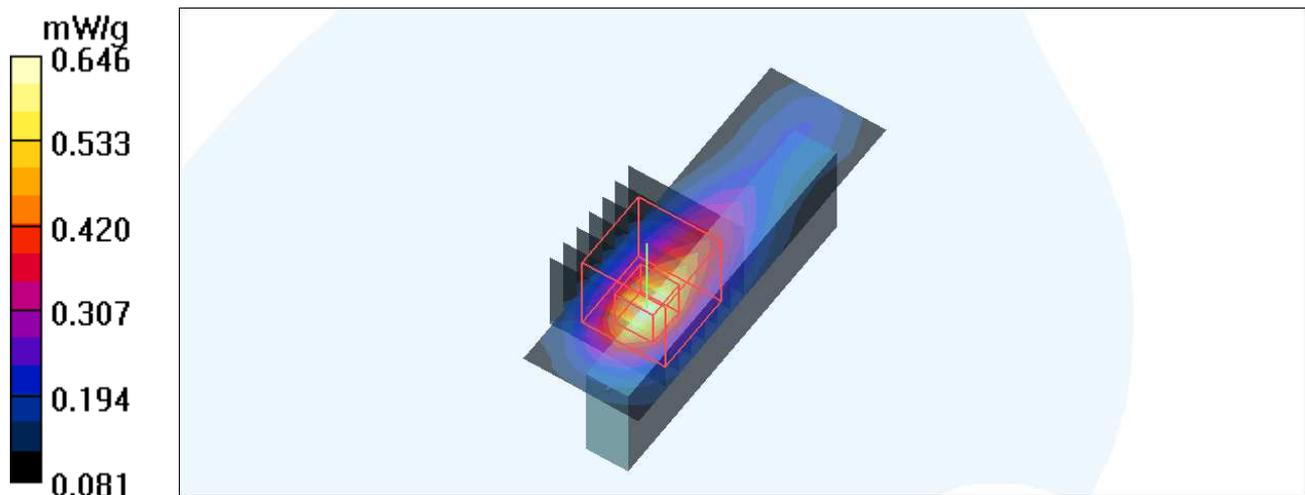Maximum value of SAR (measured) = 0.646 mW/g

**Mid Channel/Zoom Scan (7x7x7) (7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 11.3 V/m; Power Drift = -0.132 dB
Peak SAR (extrapolated) = 1.04 W/kg
**SAR(1 g) = 0.489 mW/g; SAR(10 g) = 0.237 mW/g**
Maximum value of SAR (measured) = 0.659 mW/g

Test Laboratory: Bureau Veritas ADT

## M37- Vertical-Back -5M-64QAM 1_2-Low Channel –Ant1

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 5M ; Frequency: 2498.5 MHz ; Duty Cycle: 1:3.2; Modulation type: 64QAM
Medium: MSL2450 Medium parameters used: f = 2498.5 MHz; σ = 2.06 mho/m; $\varepsilon_r$ = 53.3; ρ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Vertical Back side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.2, 8.2, 8.2) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Low Channel/Area Scan (7x20x1):** Measurement grid: dx=5mm, dy=5mm
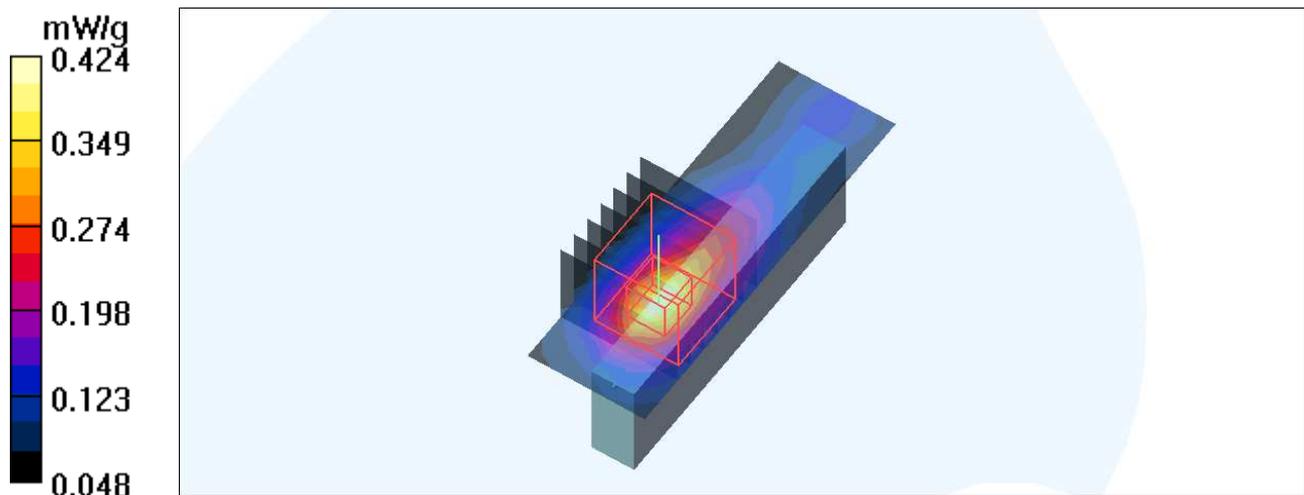Maximum value of SAR (measured) = 0.424 mW/g

**Low Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 9.20 V/m; Power Drift = -0.163 dB
Peak SAR (extrapolated) = 0.632 W/kg
**SAR(1 g) = 0.313 mW/g; SAR(10 g) = 0.157 mW/g**
Maximum value of SAR (measured) = 0.416 mW/g

Test Laboratory: Bureau Veritas ADT

# M38- Vertical-Back -5M-16QAM 1_2-Mid Channel –Ant1

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 5M ; Frequency: 2600 MHz ; Duty Cycle: 1:3.2; Modulation type: 16QAM
Medium: MSL2600 Medium parameters used: f = 2600 MHz; $\sigma$ = 2.21 mho/m; $\varepsilon_r$ = 53.1; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Vertical Back side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mid Channel/Area Scan (7x20x1):** Measurement grid: dx=5mm, dy=5mm
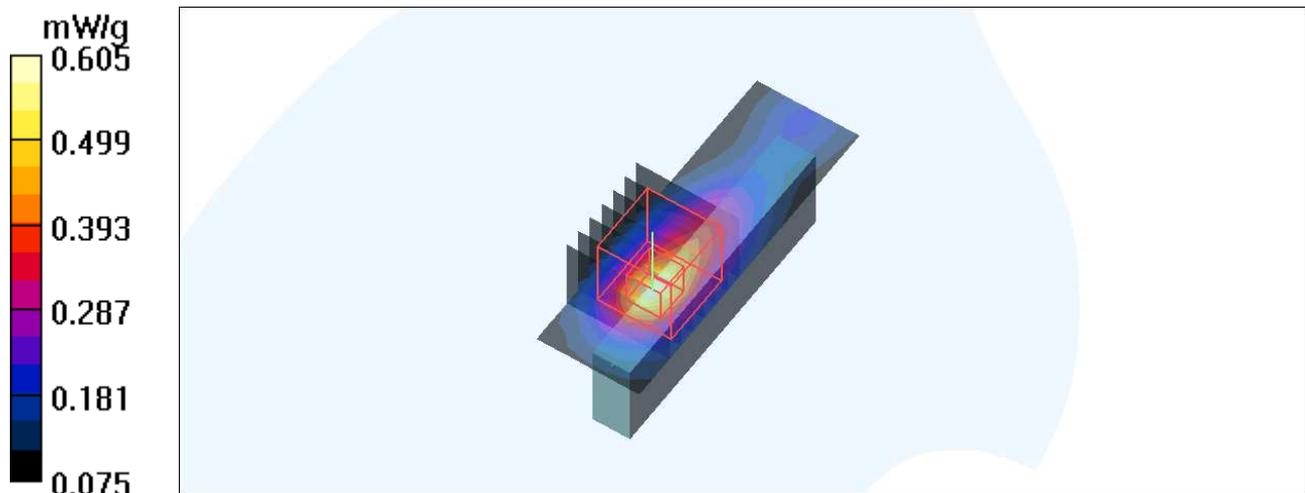Maximum value of SAR (measured) = 0.605 mW/g

**Mid Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 9.90 V/m; Power Drift = -0.186 dB
Peak SAR (extrapolated) = 0.945 W/kg
**SAR(1 g) = 0.460 mW/g; SAR(10 g) = 0.230 mW/g**
Maximum value of SAR (measured) = 0.608 mW/g

Test Laboratory: Bureau Veritas ADT

# M39- Vertical-Back -5M-QPSK 1_2-High Channel –Ant1

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 5M ; Frequency: 2687.5 MHz ; Duty Cycle: 1:3.2; Modulation type: QPSK
Medium: MSL2600 Medium parameters used: f = 2687.5 MHz; $\sigma$ = 2.26 mho/m; $\varepsilon_r$ = 52.8; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Vertical Back side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**High Channel/Area Scan (7x20x1):** Measurement grid: dx=5mm, dy=5mm
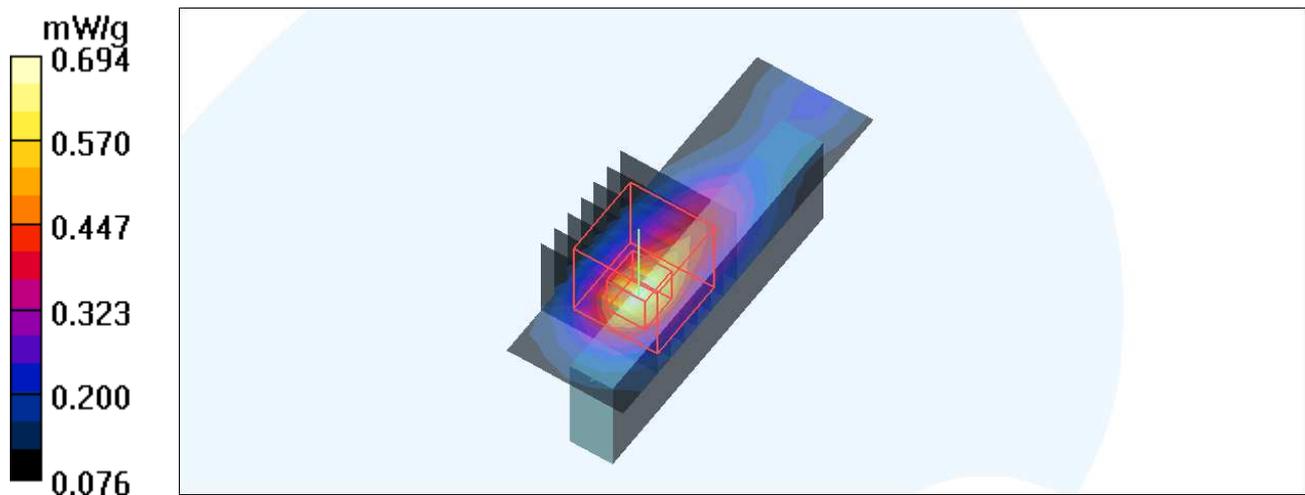Maximum value of SAR (measured) = 0.694 mW/g

**High Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 10.0 V/m; Power Drift = 0.087 dB
Peak SAR (extrapolated) = 1.11 W/kg
**SAR(1 g) = 0.518 mW/g; SAR(10 g) = 0.251 mW/g**
Maximum value of SAR (measured) = 0.699 mW/g

## M40- Vertical-Back -5M-64QAM 1_2-High Channel –Ant2

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 5M ; Frequency: 2687.5 MHz ; Duty Cycle: 1:3.2; Modulation type: 64QAM
Medium: MSL2600 Medium parameters used: f = 2687.5 MHz; $\sigma$ = 2.26 mho/m; $\varepsilon_r$ = 52.8; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Vertical Back   side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**High Channel/Area Scan (7x20x1):** Measurement grid: dx=5mm, dy=5mm
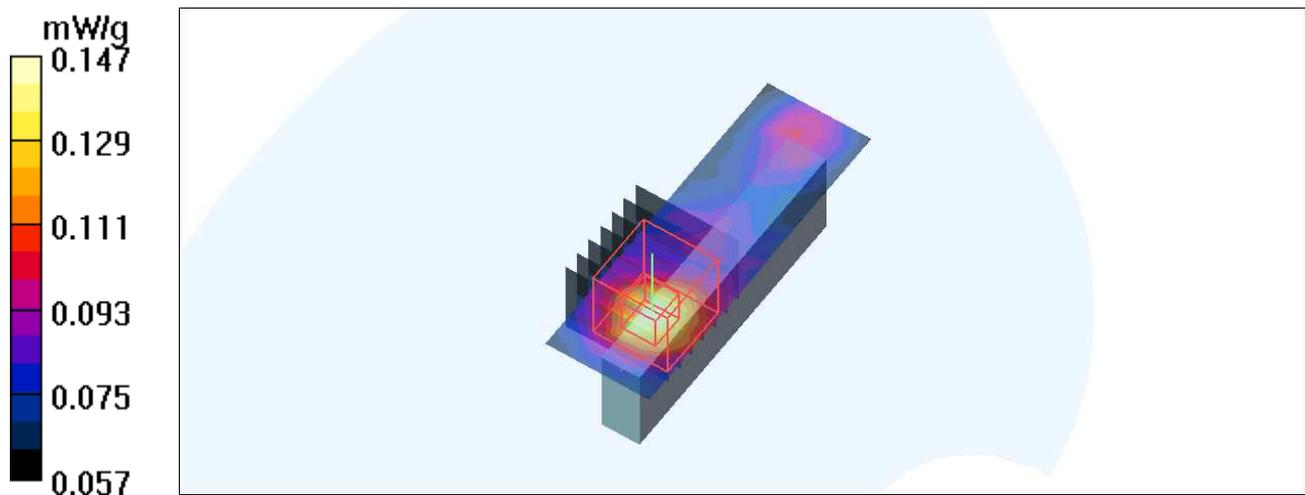Maximum value of SAR (measured) = 0.147 mW/g

**High Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 7.00 V/m; Power Drift = -0.127 dB
Peak SAR (extrapolated) = 0.194 W/kg
**SAR(1 g) = 0.118 mW/g; SAR(10 g) = 0.080 mW/g**
Maximum value of SAR (measured) = 0.143 mW/g

Test Laboratory: Bureau Veritas ADT

# M41- Vertical-Back -5M-16QAM 1_2-Mid Channel –Ant2

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 5M ; Frequency: 2600 MHz ; Duty Cycle: 1:3.2; Modulation type: 16QAM
Medium: MSL2600 Medium parameters used: f = 2600 MHz; σ = 2.21 mho/m; $\varepsilon_r$ = 53.1; ρ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Vertical Back　side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mid Channel/Area Scan (7x20x1):** Measurement grid: dx=5mm, dy=5mm
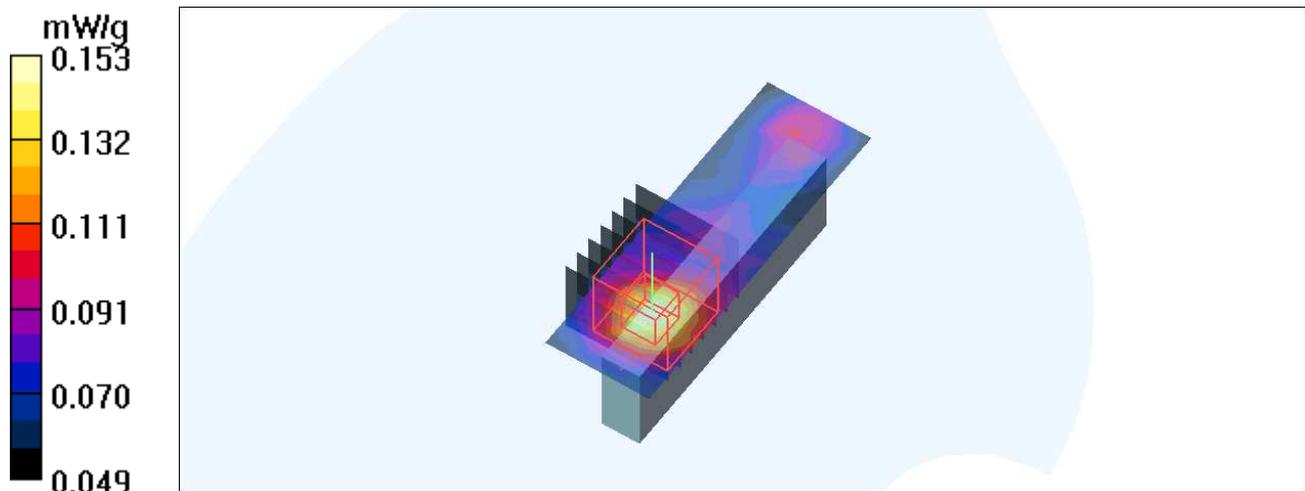Maximum value of SAR (measured) = 0.153 mW/g

**Mid Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 7.25 V/m; Power Drift = -0.165 dB
Peak SAR (extrapolated) = 0.246 W/kg
**SAR(1 g) = 0.126 mW/g; SAR(10 g) = 0.080 mW/g**
Maximum value of SAR (measured) = 0.152 mW/g

Test Laboratory: Bureau Veritas ADT

## M42- Vertical-Back -5M-QPSK 1_2-Low Channel –Ant2

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 5M ; Frequency: 2498.5 MHz ; Duty Cycle: 1:3.2; Modulation type: QPSK
Medium: MSL2450 Medium parameters used: f = 2498.5 MHz; $\sigma$ = 2.06 mho/m; $\varepsilon_r$ = 53.3; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Vertical Back   side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.2, 8.2, 8.2) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Low Channel/Area Scan (7x20x1):** Measurement grid: dx=5mm, dy=5mm
Maximum value of SAR (measured) = 0.149 mW/g

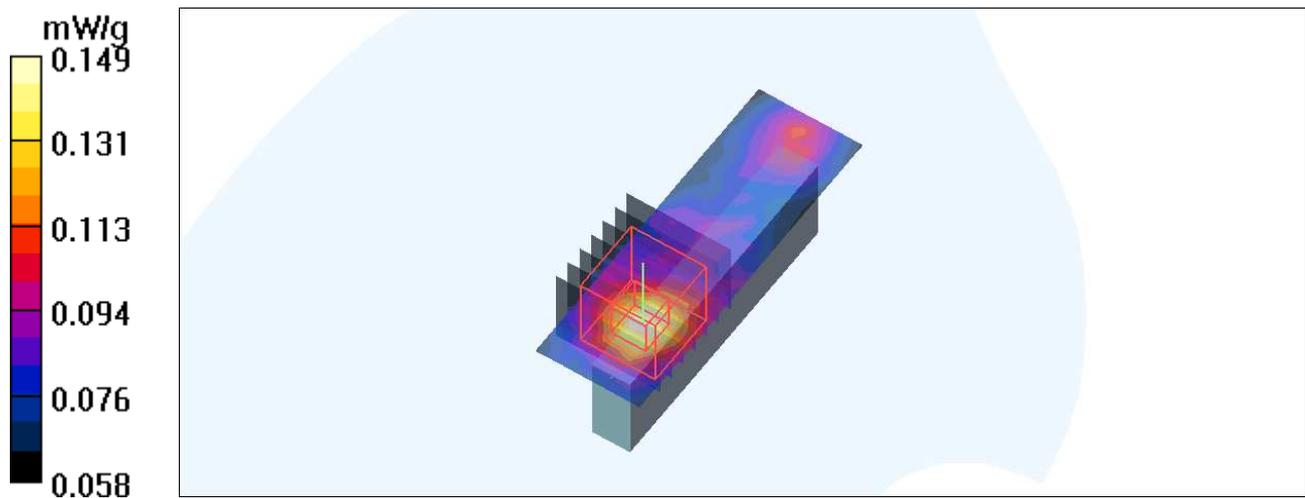**Low Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 6.99 V/m; Power Drift = -0.153 dB
Peak SAR (extrapolated) = 0.251 W/kg
**SAR(1 g) = 0.125 mW/g; SAR(10 g) = 0.083 mW/g**
Maximum value of SAR (measured) = 0.146 mW/g

Test Laboratory: Bureau Veritas ADT

## M43- Vertical-Back -10M-64QAM 1_2-High Channel –Ant1

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 10M ; Frequency: 2685 MHz ; Duty Cycle: 1:3.2; Modulation type: 64QAM
Medium: MSL2600 Medium parameters used: f = 2685 MHz; $\sigma$ = 2.25 mho/m; $\varepsilon_r$ = 52.9; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Vertical Back   side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**High Channel/Area Scan (7x20x1):** Measurement grid: dx=5mm, dy=5mm
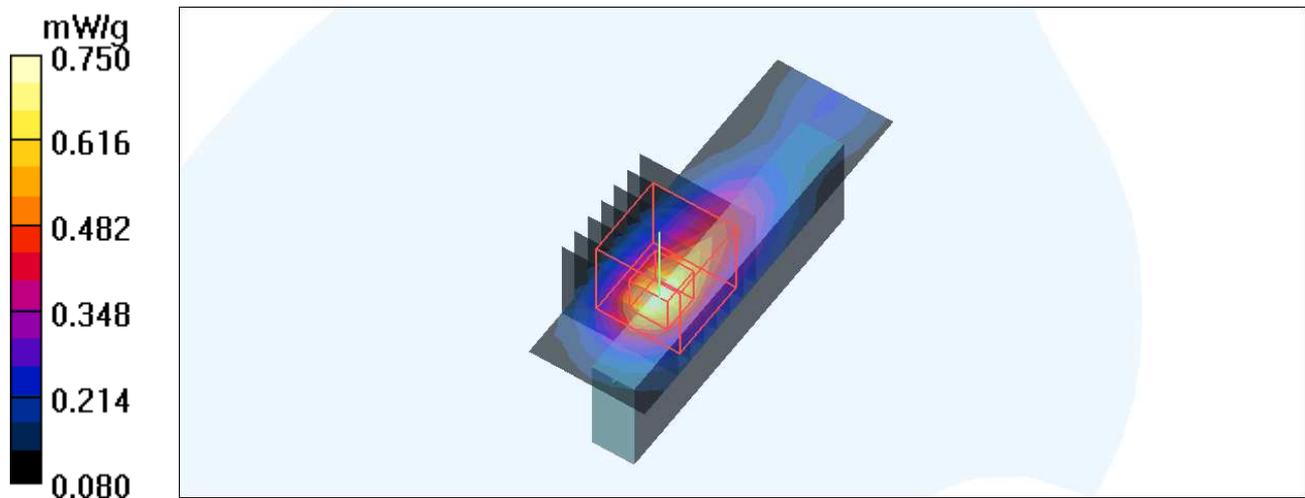Maximum value of SAR (measured) = 0.750 mW/g

**High Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 10.6 V/m; Power Drift = -0.196 dB
Peak SAR (extrapolated) = 1.23 W/kg
**SAR(1 g) = 0.566 mW/g; SAR(10 g) = 0.269 mW/g**
Maximum value of SAR (measured) = 0.763 mW/g

Test Laboratory: Bureau Veritas ADT

# M44- Vertical-Back -10M-16QAM 1_2-Mid Channel –Ant1

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 10M ; Frequency: 2600 MHz ; Duty Cycle: 1:3.2; Modulation type: 16QAM
Medium: MSL2600 Medium parameters used: f = 2600 MHz; $\sigma$ = 2.21 mho/m; $\varepsilon_r$ = 53.1; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Vertical Back   side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mid Channel/Area Scan (7x20x1):** Measurement grid: dx=5mm, dy=5mm
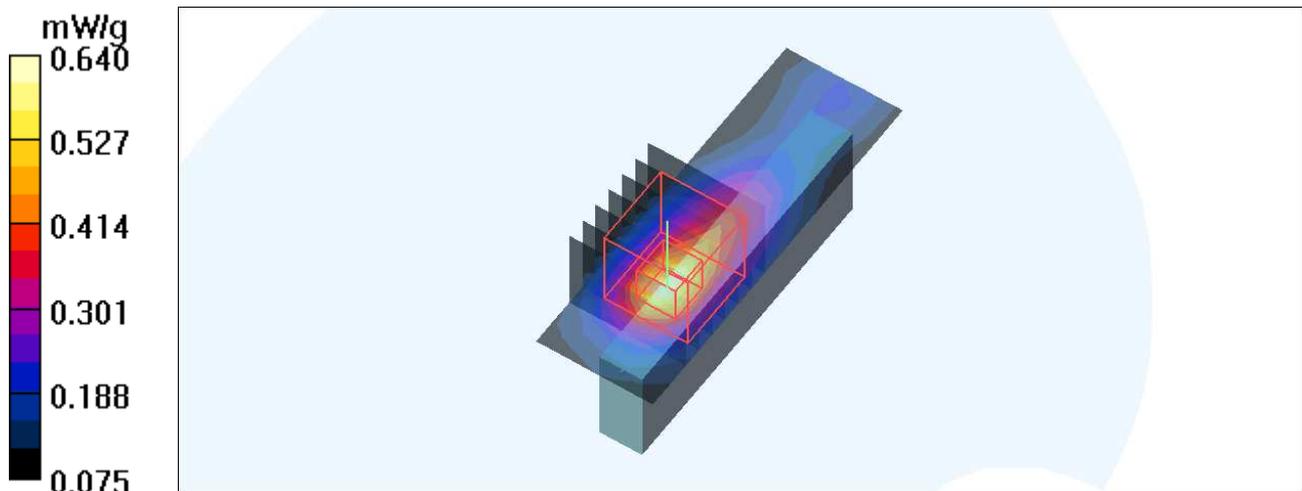Maximum value of SAR (measured) = 0.640 mW/g

**Mid Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 10.1 V/m; Power Drift = -0.130 dB
Peak SAR (extrapolated) = 1.02 W/kg
**SAR(1 g) = 0.483 mW/g; SAR(10 g) = 0.238 mW/g**
Maximum value of SAR (measured) = 0.641 mW/g

Test Laboratory: Bureau Veritas ADT

## M45- Vertical-Back -10M-QPSK 1_2-Mid Channel –Ant1

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 10M ; Frequency: 2600 MHz ; Duty Cycle: 1:3.2; Modulation type: QPSK
Medium: MSL2600 Medium parameters used: f = 2600 MHz; $\sigma$ = 2.21 mho/m; $\varepsilon_r$ = 53.1; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Vertical Back   side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mid Channel/Area Scan (7x20x1):** Measurement grid: dx=5mm, dy=5mm
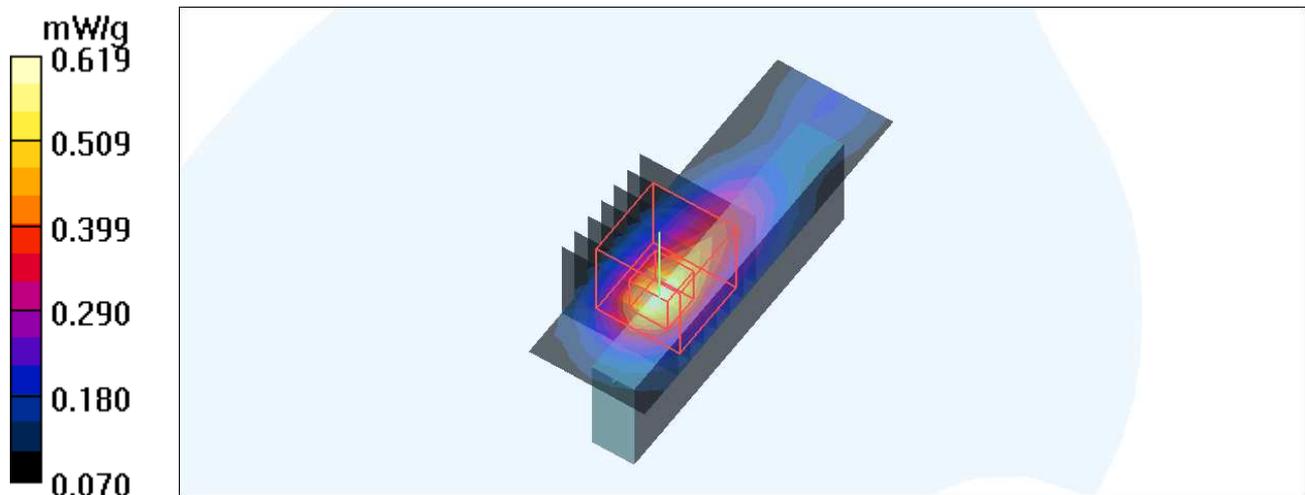Maximum value of SAR (measured) = 0.619 mW/g

**Mid Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 9.82 V/m; Power Drift = -0.106 dB
Peak SAR (extrapolated) = 0.978 W/kg
**SAR(1 g) = 0.465 mW/g; SAR(10 g) = 0.229 mW/g**
Maximum value of SAR (measured) = 0.616 mW/g

Test Laboratory: Bureau Veritas ADT

## M46- Vertical-Back -10M-64QAM 1_2-High Channel –Ant2

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 10M ; Frequency: 2685 MHz ; Duty Cycle: 1:3.2; Modulation type: 64QAM
Medium: MSL2600 Medium parameters used: f = 2685 MHz; $\sigma$ = 2.25 mho/m; $\varepsilon_r$ = 52.9; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Vertical Back   side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**High Channel/Area Scan (7x20x1):** Measurement grid: dx=5mm, dy=5mm
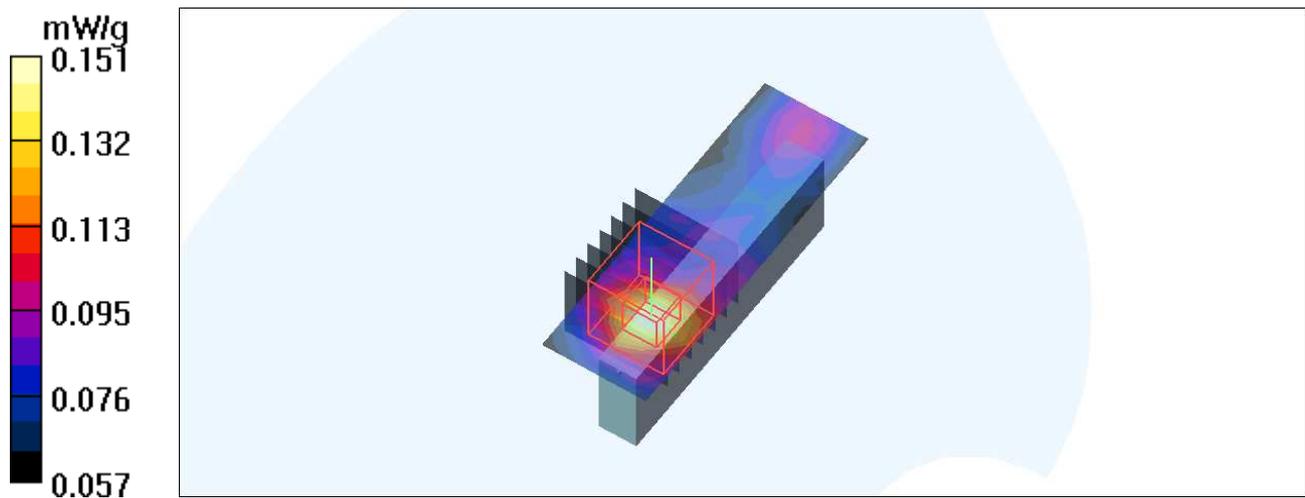Maximum value of SAR (measured) = 0.151 mW/g

**High Channel/Zoom Scan (7x7x7) (7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 7.47 V/m; Power Drift = -0.125 dB
Peak SAR (extrapolated) = 0.227 W/kg
**SAR(1 g) = 0.122 mW/g; SAR(10 g) = 0.080 mW/g**
Maximum value of SAR (measured) = 0.149 mW/g



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Test Laboratory: Bureau Veritas ADT

# M47- Vertical-Back -10M-16QAM 1_2-Low Channel –Ant2

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 10M ; Frequency: 2501 MHz ; Duty Cycle: 1:3.2; Modulation type: 16QAM
Medium: MSL2600 Medium parameters used: f = 2501 MHz; $\sigma$ = 2.08 mho/m; $\varepsilon_r$ = 53.2; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Vertical Back   side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

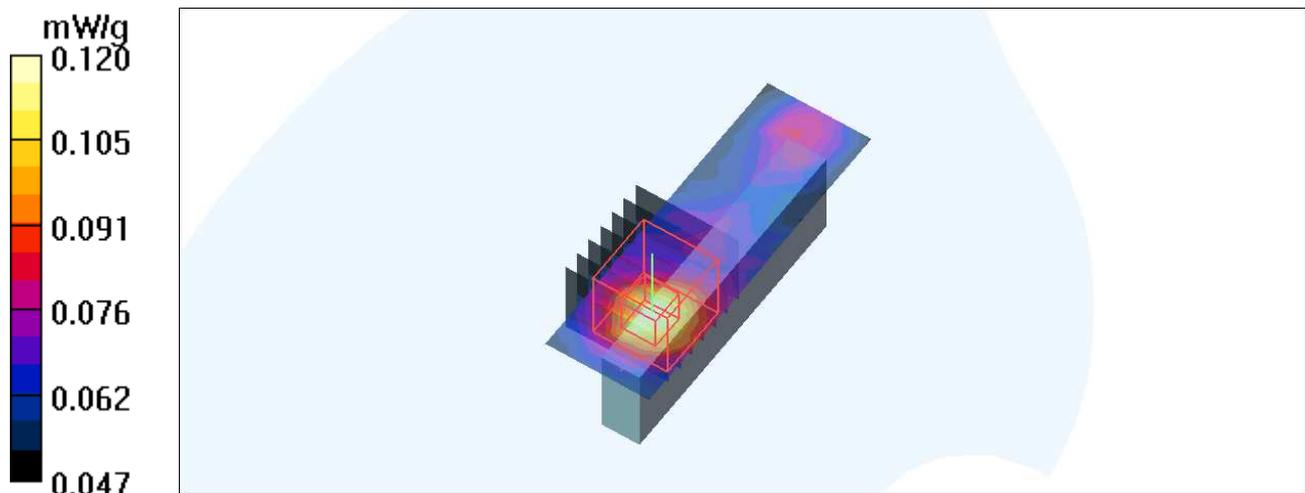**Low Channel/Area Scan (7x20x1):** Measurement grid: dx=5mm, dy=5mm
Maximum value of SAR (measured) = 0.120 mW/g

**Low Channel/Zoom Scan (7x7x7) (7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 7.36 V/m; Power Drift = -0.161 dB
Peak SAR (extrapolated) = 0.188 W/kg
**SAR(1 g) = 0.101 mW/g; SAR(10 g) = 0.069 mW/g**

Test Laboratory: Bureau Veritas ADT

# M48- Vertical-Back -10M-16QAM 1_2-Mid Channel –Ant2

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 10M ; Frequency: 2600 MHz ; Duty Cycle: 1:3.2; Modulation type: QPSK
Medium: MSL2600 Medium parameters used: f = 2600 MHz; $\sigma$ = 2.21 mho/m; $\varepsilon_r$ = 53.1; $\rho$ = 1000 kg/m³
Phantom section: Flat Section ; Separation distance : 5 mm (The Vertical Back   side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mid Channel/Area Scan (7x20x1):** Measurement grid: dx=5mm, dy=5mm
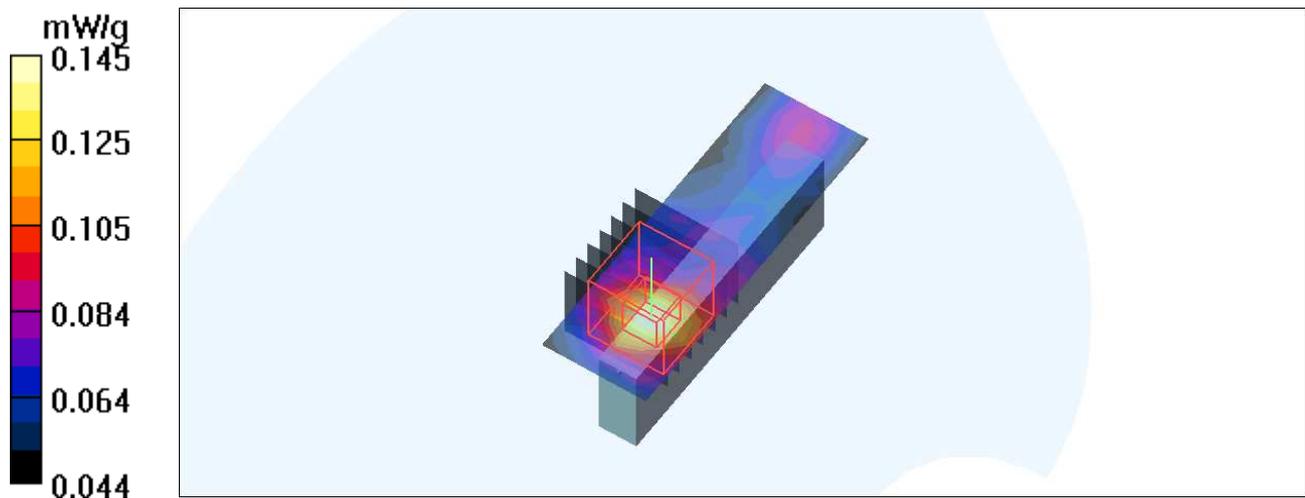Maximum value of SAR (measured) = 0.145 mW/g

**Mid Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 7.40 V/m; Power Drift = -0.103 dB
Peak SAR (extrapolated) = 0.231 W/kg
**SAR(1 g) = 0.122 mW/g; SAR(10 g) = 0.079 mW/g**
Maximum value of SAR (measured) = 0.146 mW/g



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Test Laboratory: Bureau Veritas ADT

# M49-Tip -5M-64QAM 1_2-Low Channel –Ant1

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 5M ; Frequency: 2498.5 MHz ; Duty Cycle: 1:3.2; Modulation type: 64QAM
Medium: MSL2450 Medium parameters used: f = 2498.5 MHz; $\sigma$ = 2.06 mho/m; $\varepsilon_r$ = 53.2; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Tip side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.2, 8.2, 8.2) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Low Channel/Area Scan (11x13x1):** Measurement grid: dx=5mm, dy=5mm
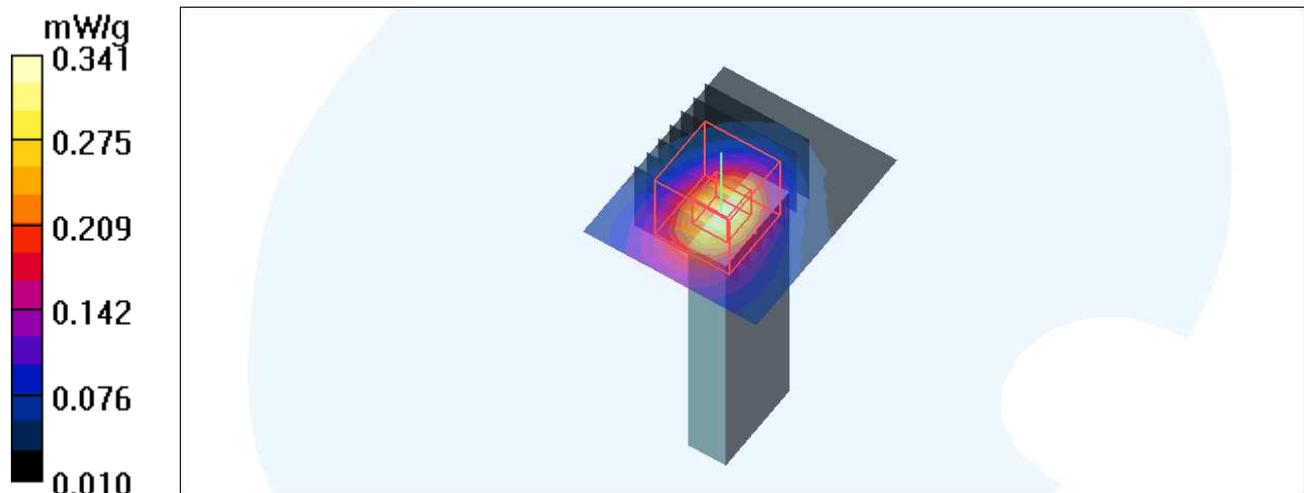Maximum value of SAR (measured) = 0.341 mW/g

**Low Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 10.5 V/m; Power Drift = 0.184 dB
Peak SAR (extrapolated) = 0.509 W/kg
**SAR(1 g) = 0.263 mW/g; SAR(10 g) = 0.130 mW/g**
Maximum value of SAR (measured) = 0.340 mW/g

Test Laboratory: Bureau Veritas ADT

## M50-Tip -5M-16QAM 1_2-Mid Channel –Ant1

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 5M ; Frequency: 2600 MHz ; Duty Cycle: 1:3.2; Modulation type: 16QAM
Medium: MSL2600 Medium parameters used: f = 2600 MHz; $\sigma$ = 2.2 mho/m; $\varepsilon_r$ = 53.1; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Tip side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

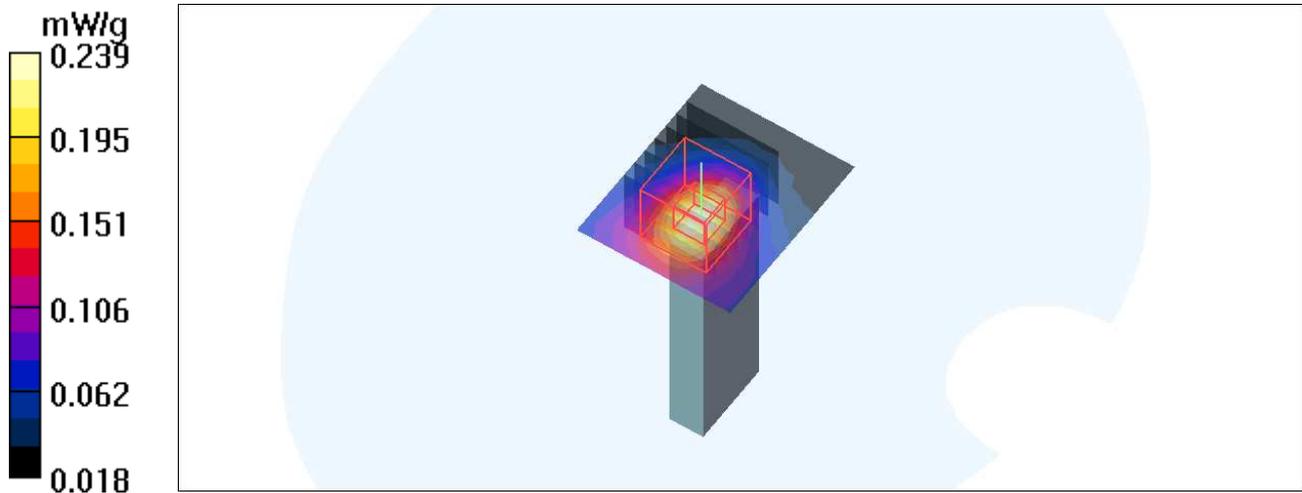**Mid Channel/Area Scan (11x13x1):** Measurement grid: dx=5mm, dy=5mm
Maximum value of SAR (measured) = 0.239 mW/g

**Mid Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 9.09 V/m; Power Drift = -0.173 dB
Peak SAR (extrapolated) = 0.375 W/kg
**SAR(1 g) = 0.191 mW/g; SAR(10 g) = 0.102 mW/g**



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Test Laboratory: Bureau Veritas ADT

## M51-Tip -5M-QPSK 1_2-High Channel –Ant1

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 5M ; Frequency: 2687.5 MHz ; Duty Cycle: 1:3.2; Modulation type: QPSK
Medium: MSL2600 Medium parameters used: f = 2687.5 MHz; $\sigma$ = 2.27 mho/m; $\varepsilon_r$ = 52.5; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Tip side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

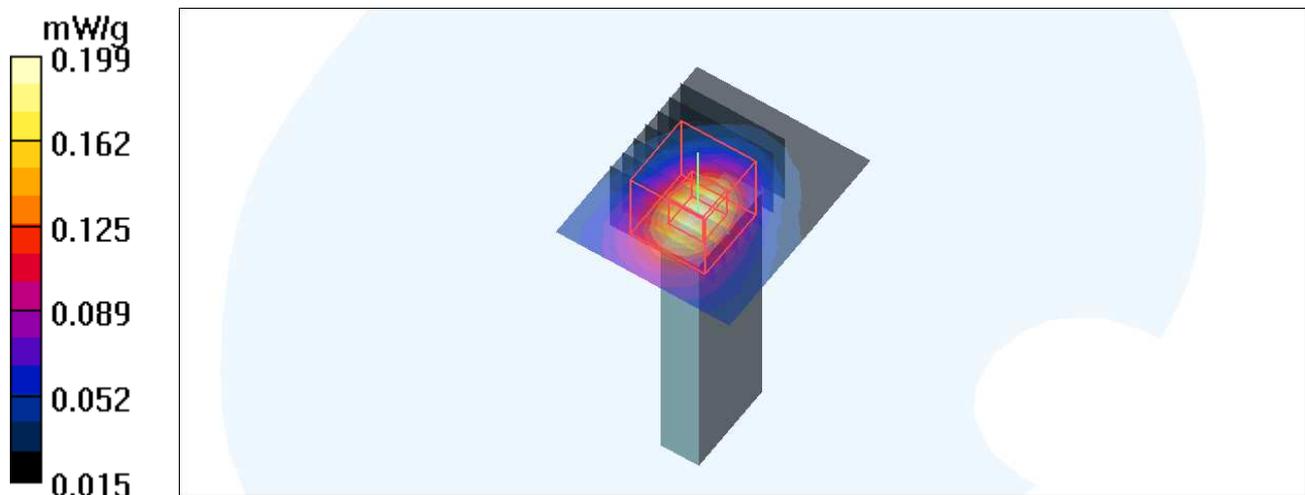**High Channel/Area Scan (11x13x1):** Measurement grid: dx=5mm, dy=5mm
Maximum value of SAR (measured) = 0.199 mW/g

**High Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 7.98 V/m; Power Drift = -0.099 dB
Peak SAR (extrapolated) = 0.293 W/kg
**SAR(1 g) = 0.158 mW/g; SAR(10 g) = 0.087 mW/g**



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Test Laboratory: Bureau Veritas ADT

# M52-Tip -5M-64QAM 1_2-High Channel –Ant2

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 5M ; Frequency: 2687.5 MHz ; Duty Cycle: 1:3.2; Modulation type: 64QAM
Medium: MSL2600 Medium parameters used: f = 2687.5 MHz; σ = 2.27 mho/m; $\varepsilon_r$ = 52.5; ρ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Tip side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**High Channel/Area Scan (11x13x1):** Measurement grid: dx=5mm, dy=5mm
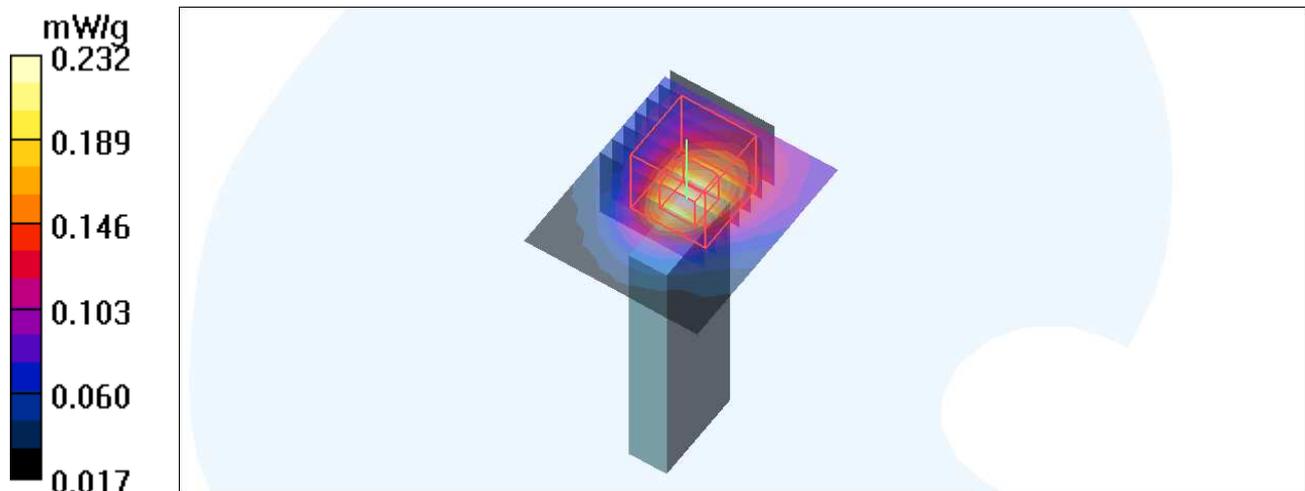Maximum value of SAR (measured) = 0.232 mW/g

**High Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 9.43 V/m; Power Drift = 0.074 dB
Peak SAR (extrapolated) = 0.375 W/kg
**SAR(1 g) = 0.185 mW/g; SAR(10 g) = 0.098 mW/g**
Maximum value of SAR (measured) = 0.239 mW/g

Test Laboratory: Bureau Veritas ADT

## M53-Tip -5M-16QAM 1_2-Mid Channel –Ant2

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 5M ; Frequency: 2600 MHz ; Duty Cycle: 1:3.2; Modulation type: 16QAM
Medium: MSL2600 Medium parameters used: f = 2600 MHz; $\sigma$ = 2.2 mho/m; $\epsilon_r$ = 53.1; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Tip side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mid Channel/Area Scan (11x13x1):** Measurement grid: dx=5mm, dy=5mm
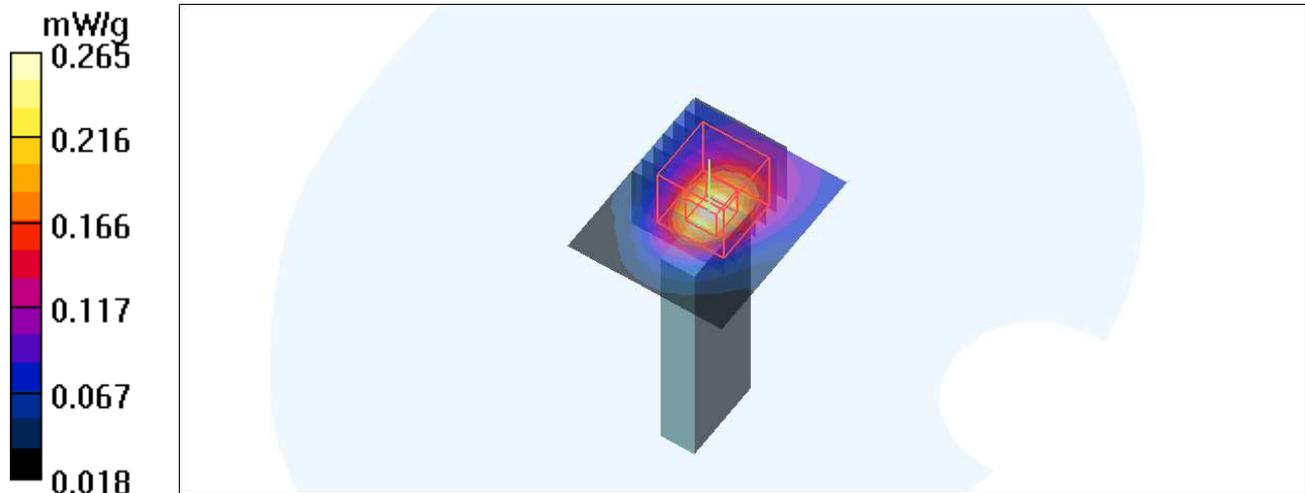Maximum value of SAR (measured) = 0.265 mW/g

**Mid Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 10.3 V/m; Power Drift = -0.106 dB
Peak SAR (extrapolated) = 0.402 W/kg
**SAR(1 g) = 0.207 mW/g; SAR(10 g) = 0.108 mW/g**

Test Laboratory: Bureau Veritas ADT

## M54-Tip -5M-QPSK 1_2-Low Channel –Ant2

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 5M ; Frequency: 2498.5 MHz ; Duty Cycle: 1:3.2; Modulation type: QPSK
Medium: MSL2450 Medium parameters used: f = 2498.5 MHz; $\sigma$ = 2.06 mho/m; $\varepsilon_r$ = 53.2; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Tip side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.2, 8.2, 8.2) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Low Channel/Area Scan (11x13x1):** Measurement grid: dx=5mm, dy=5mm
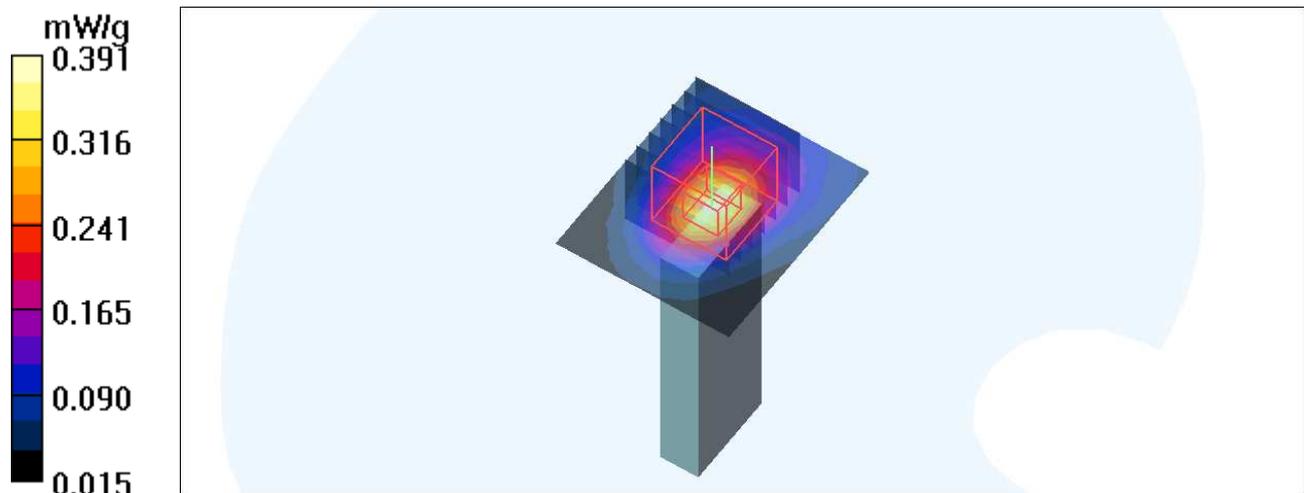Maximum value of SAR (measured) = 0.391 mW/g

**Low Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 12.7 V/m; Power Drift = -0.023 dB
Peak SAR (extrapolated) = 0.591 W/kg
**SAR(1 g) = 0.304 mW/g; SAR(10 g) = 0.153 mW/g**
Maximum value of SAR (measured) = 0.393 mW/g

Test Laboratory: Bureau Veritas ADT

# M55-Tip -10M-64QAM 1_2-High Channel –Ant1

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 10M ; Frequency: 2685 MHz ; Duty Cycle: 1:3.2; Modulation type: 64QAM
Medium: MSL2600 Medium parameters used: f = 2685 MHz; $\sigma$ = 2.24 mho/m; $\varepsilon_r$ = 52.8; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Tip side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**High Channel/Area Scan (11x13x1):** Measurement grid: dx=5mm, dy=5mm
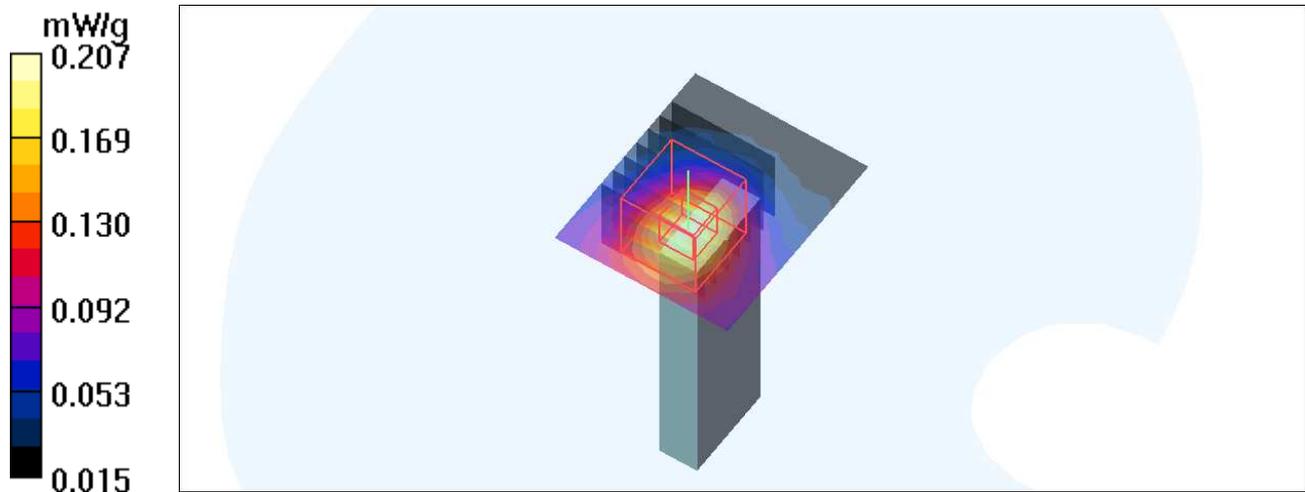Maximum value of SAR (measured) = 0.207 mW/g

**High Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 8.08 V/m; Power Drift = -0.127 dB
Peak SAR (extrapolated) = 0.315 W/kg
**SAR(1 g) = 0.164 mW/g; SAR(10 g) = 0.090 mW/g**
Maximum value of SAR (measured) = 0.208 mW/g

Test Laboratory: Bureau Veritas ADT

# M56-Tip -10M-16QAM 1_2-Mid Channel –Ant1

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 10M ; Frequency: 2600 MHz ; Duty Cycle: 1:3.2; Modulation type: 16QAM
Medium: MSL2600 Medium parameters used: f = 2600 MHz; σ = 2.2 mho/m; $\varepsilon_r$ = 53.1; ρ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Tip side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mid Channel/Area Scan (11x13x1):** Measurement grid: dx=5mm, dy=5mm
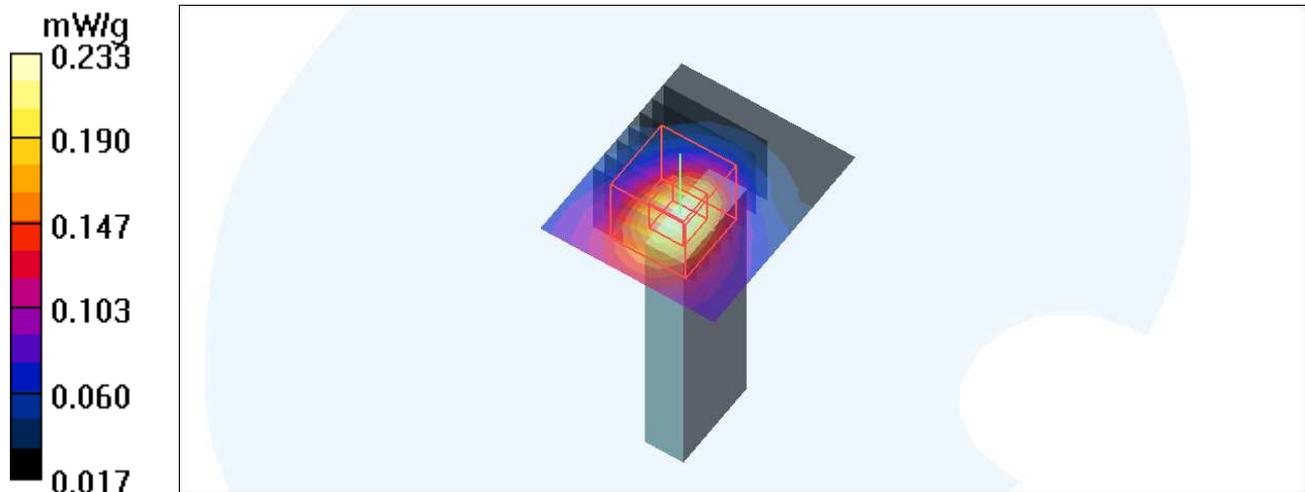Maximum value of SAR (measured) = 0.233 mW/g

**Mid Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 8.94 V/m; Power Drift = -0.101 dB
Peak SAR (extrapolated) = 0.349 W/kg
**SAR(1 g) = 0.187 mW/g; SAR(10 g) = 0.101 mW/g**
Maximum value of SAR (measured) = 0.234 mW/g



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Test Laboratory: Bureau Veritas ADT

# M57-Tip -10M- QPSK 1_2-Mid Channel –Ant1

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 10M ; Frequency: 2600 MHz ; Duty Cycle: 1:3.2; Modulation type: QPSK
Medium: MSL2600 Medium parameters used: f = 2600 MHz; σ = 2.2 mho/m; $ε_r$ = 53.1; ρ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Tip side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mid Channel/Area Scan (11x13x1):** Measurement grid: dx=5mm, dy=5mm
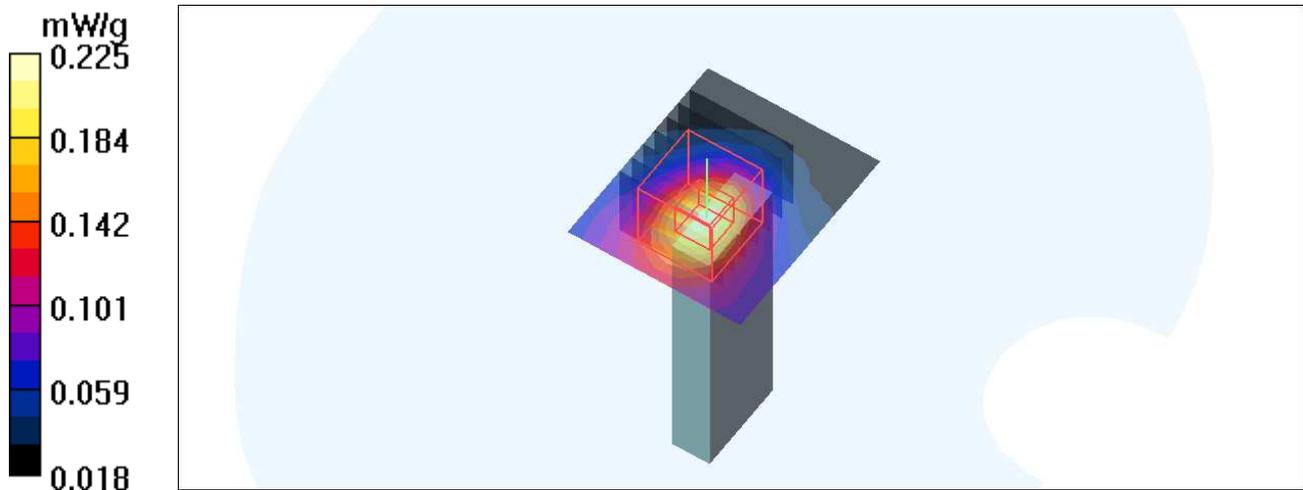Maximum value of SAR (measured) = 0.225 mW/g

**Mid Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 8.67 V/m; Power Drift = -0.115 dB
Peak SAR (extrapolated) = 0.332 W/kg
**SAR(1 g) = 0.176 mW/g; SAR(10 g) = 0.096 mW/g**
Maximum value of SAR (measured) = 0.224 mW/g

Test Laboratory: Bureau Veritas ADT

## M58-Tip -10M-64QAM 1_2-High Channel –Ant2

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 10M ; Frequency: 2685 MHz ; Duty Cycle: 1:3.2; Modulation type: 64QAM
Medium: MSL2600 Medium parameters used: f = 2685 MHz; $\sigma$ = 2.24 mho/m; $\varepsilon_r$ = 52.8; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Tip side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

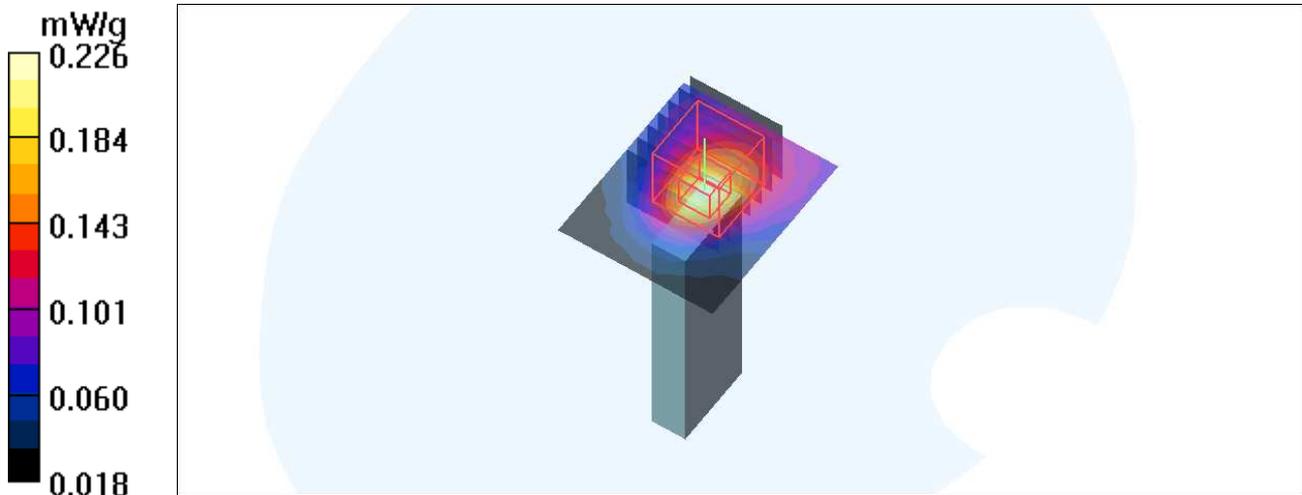**High Channel/Area Scan (11x13x1):** Measurement grid: dx=5mm, dy=5mm
Maximum value of SAR (measured) = 0.226 mW/g

**High Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 9.55 V/m; Power Drift = -0.131 dB
Peak SAR (extrapolated) = 0.350 W/kg
**SAR(1 g) = 0.178 mW/g; SAR(10 g) = 0.096 mW/g**

Test Laboratory: Bureau Veritas ADT

## M59-Tip -10M-16QAM 1_2-Low Channel –Ant2

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 10M ; Frequency: 2501 MHz ; Duty Cycle: 1:3.2; Modulation type: 16QAM
Medium: MSL2600 Medium parameters used: f = 2501 MHz; $\sigma$ = 2.07 mho/m; $\varepsilon_r$ = 53.2; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Tip side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Low Channel/Area Scan (11x13x1):** Measurement grid: dx=5mm, dy=5mm
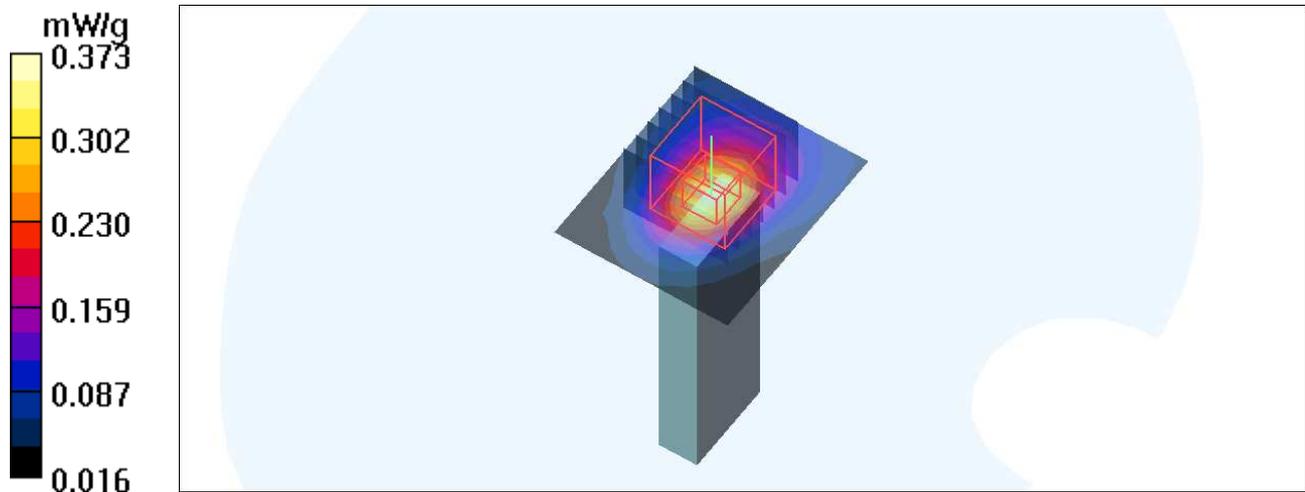Maximum value of SAR (measured) = 0.373 mW/g

**Low Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 12.3 V/m; Power Drift = 0.046 dB
Peak SAR (extrapolated) = 0.541 W/kg
**SAR(1 g) = 0.286 mW/g; SAR(10 g) = 0.146 mW/g**
Maximum value of SAR (measured) = 0.368 mW/g



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Test Laboratory: Bureau Veritas ADT

## M60-Tip -10M-QPSK 1_2-Mid Channel –Ant2

**DUT: Mobile WiMax USB Adapter ; Type: WIXUBB-110**
Communication System: Wimax_2.6GHz 10M ; Frequency: 2600 MHz ; Duty Cycle: 1:3.2; Modulation type: QPSK
Medium: MSL2600 Medium parameters used: f = 2600 MHz; $\sigma$ = 2.2 mho/m; $\varepsilon_r$ = 53.1; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 5 mm (The Tip side of the EUT to the Phantom)

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861 ; Calibrated: 2010/1/22
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80 ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mid Channel/Area Scan (11x13x1):** Measurement grid: dx=5mm, dy=5mm
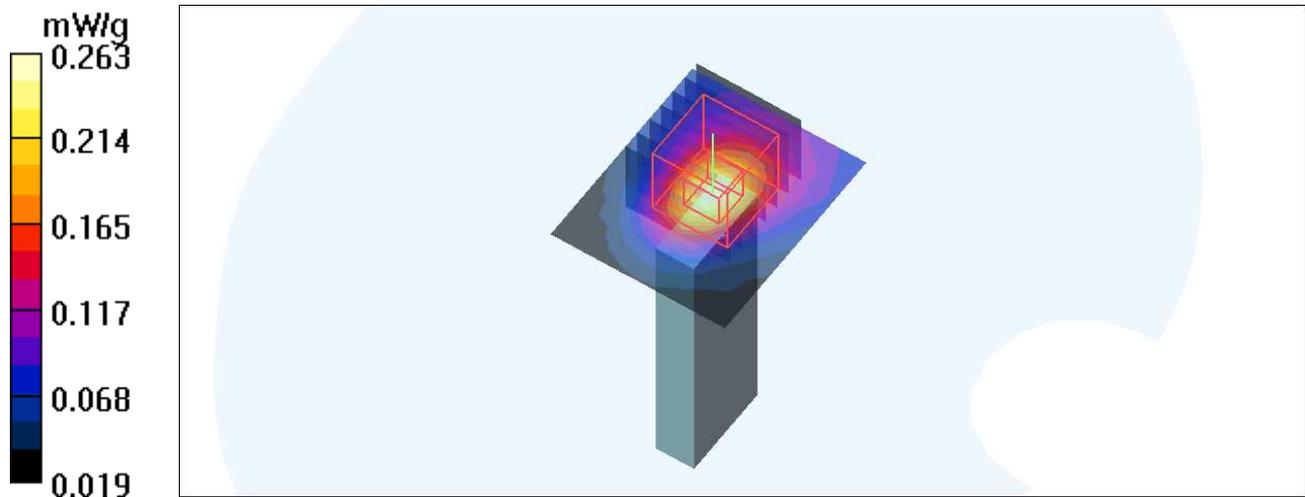Maximum value of SAR (measured) = 0.263 mW/g

**Mid Channel/Zoom Scan(7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 10.4 V/m; Power Drift = -0.097 dB
Peak SAR (extrapolated) = 0.409 W/kg
**SAR(1 g) = 0.209 mW/g; SAR(10 g) = 0.110 mW/g**
Maximum value of SAR (measured) = 0.267 mW/g

Test Laboratory: Bureau Veritas ADT

# System Validation Check-MSL 2450MHz 6-11

**DUT: Dipole 2450 MHz ; Type: D2450V2 ; Serial: 737 ; Test Frequency: 2450 MHz**

Communication System: CW ; Frequency: 2450 MHz; Duty Cycle: 1:1; Modulation type: CW
Medium: MSL2450;Medium parameters used: f = 2450 MHz; σ = 2.04 mho/m; $\varepsilon_r$ = 53.6; ρ = 1000 kg/m$^3$ ; Liquid level : 151 mm
Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of  the dipole to the Phantom)Air temp. : 23 degrees ; Liquid temp. : 22.7 degrees

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.2, 8.2, 8.2) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2010/1/22
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**d=10mm, Pin=250mW/Area Scan (5x7x1):** Measurement grid: dx=15mm, dy=15mm
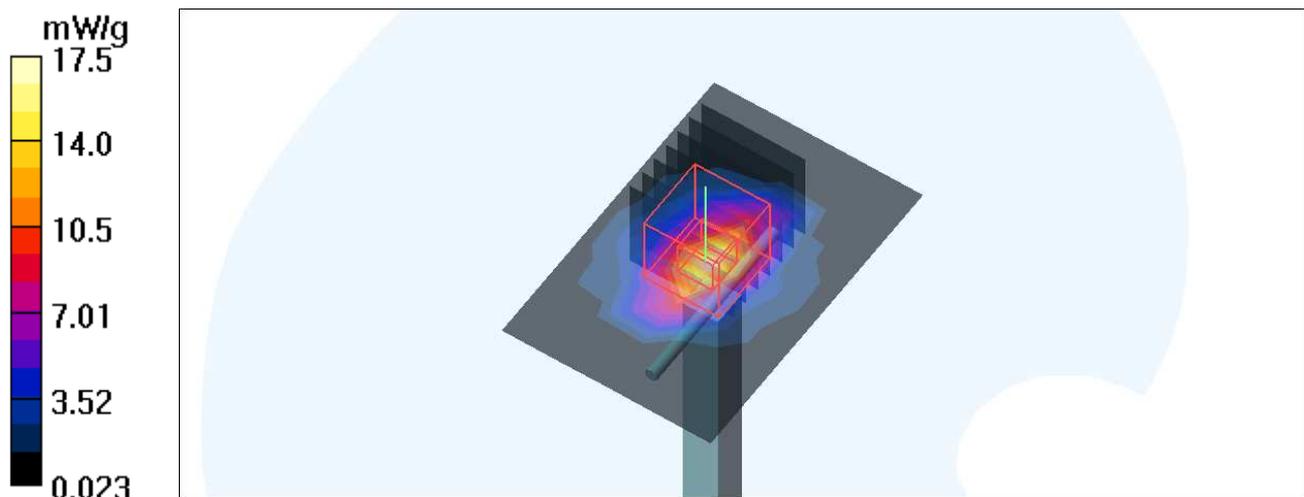Maximum value of SAR (measured) = 17.5 mW/g

**d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 94.6 V/m; Power Drift = -0.017 dB
Peak SAR (extrapolated) = 28.0 W/kg
**SAR(1 g) = 13 mW/g; SAR(10 g) = 5.89 mW/g**
Maximum value of SAR (measured) = 17.3 mW/g

Test Laboratory: Bureau Veritas ADT

## System Validation Check-MSL 2600MHz 6-11

**DUT: Dipole 2600 MHz ; Type: D2600V2 ; Serial: 1020 ; Test Frequency: 2600 MHz**

Communication System: CW ; Frequency: 2600 MHz; Duty Cycle: 1:1; Modulation type: CW
Medium: MSL2600;Medium parameters used: f = 2600 MHz; σ = 2.21 mho/m; $\varepsilon_r$ = 53.1; ρ = 1000 kg/m$^3$ ; Liquid level : 151 mm
Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of  the dipole to the Phantom)Air temp. : 23 degrees ; Liquid temp. : 22.7 degrees

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2010/1/22
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**d=10mm, Pin=250mW/Area Scan (5x7x1):** Measurement grid: dx=15mm, dy=15mm
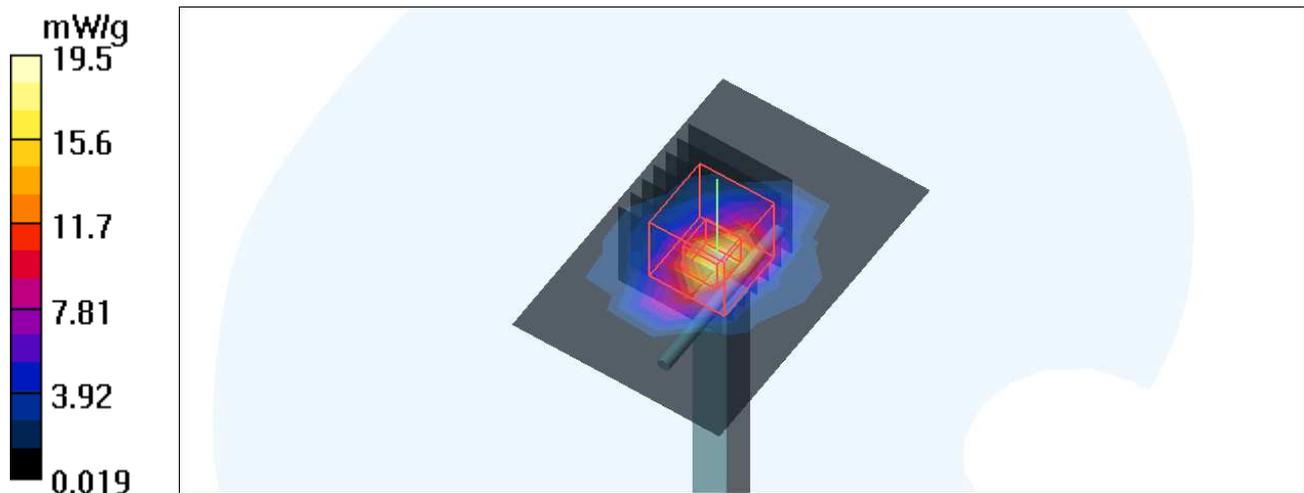Maximum value of SAR (measured) = 19.5 mW/g

**d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 98.2 V/m; Power Drift = 0.023 dB
Peak SAR (extrapolated) = 33.2 W/kg
**SAR(1 g) = 14.3 mW/g; SAR(10 g) = 6.08 mW/g**
Maximum value of SAR (measured) = 19.2 mW/g

Test Laboratory: Bureau Veritas ADT

## System Validation Check-MSL 2450MHz 6-12

**DUT: Dipole 2450 MHz ; Type: D2450V2 ; Serial: 737 ; Test Frequency: 2450 MHz**

Communication System: CW ; Frequency: 2450 MHz; Duty Cycle: 1:1; Modulation type: CW
Medium: MSL2450;Medium parameters used: f = 2450 MHz; σ = 2.03 mho/m; $\varepsilon_r$ = 53.5; ρ = 1000 kg/m$^3$ ; Liquid level : 150 mm
Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of   the dipole to the Phantom)Air temp. : 23.1 degrees ; Liquid temp. : 22.8 degrees


DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.2, 8.2, 8.2) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2010/1/22
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186


**d=10mm, Pin=250mW/Area Scan (5x7x1):** Measurement grid: dx=15mm, dy=15mm
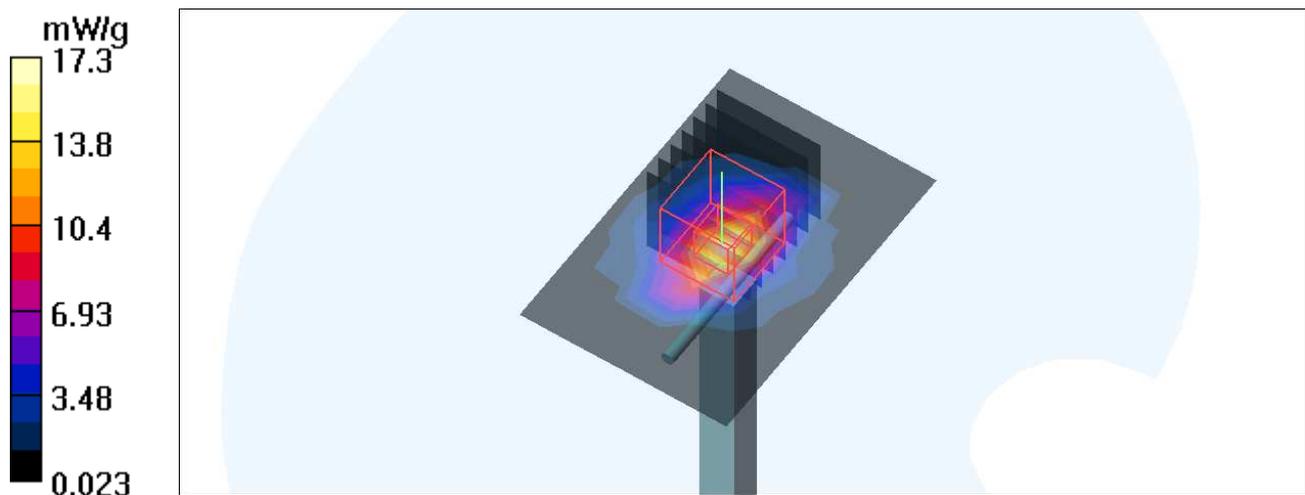Maximum value of SAR (measured) = 17.3 mW/g


**d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 94.6 V/m; Power Drift = -0.015 dB
Peak SAR (extrapolated) = 27.7 W/kg
**SAR(1 g) = 12.9 mW/g; SAR(10 g) = 5.83 mW/g**
Maximum value of SAR (measured) = 17.2 mW/g

Test Laboratory: Bureau Veritas ADT

## System Validation Check-MSL 2600MHz 6-12

**DUT: Dipole 2600 MHz ; Type: D2600V2 ; Serial: 1020 ; Test Frequency: 2600 MHz**

Communication System: CW ; Frequency: 2600 MHz; Duty Cycle: 1:1; Modulation type: CW
Medium: MSL2600;Medium parameters used: f = 2600 MHz; σ = 2.2 mho/m; $\varepsilon_r$ = 53; ρ = 1000 kg/m$^3$ ;
Liquid level : 150 mm
Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of　the dipole to the
Phantom)Air temp. : 23.1 degrees ; Liquid temp. : 22.8 degrees

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2010/1/22
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**d=10mm, Pin=250mW/Area Scan (5x7x1):** Measurement grid: dx=15mm, dy=15mm
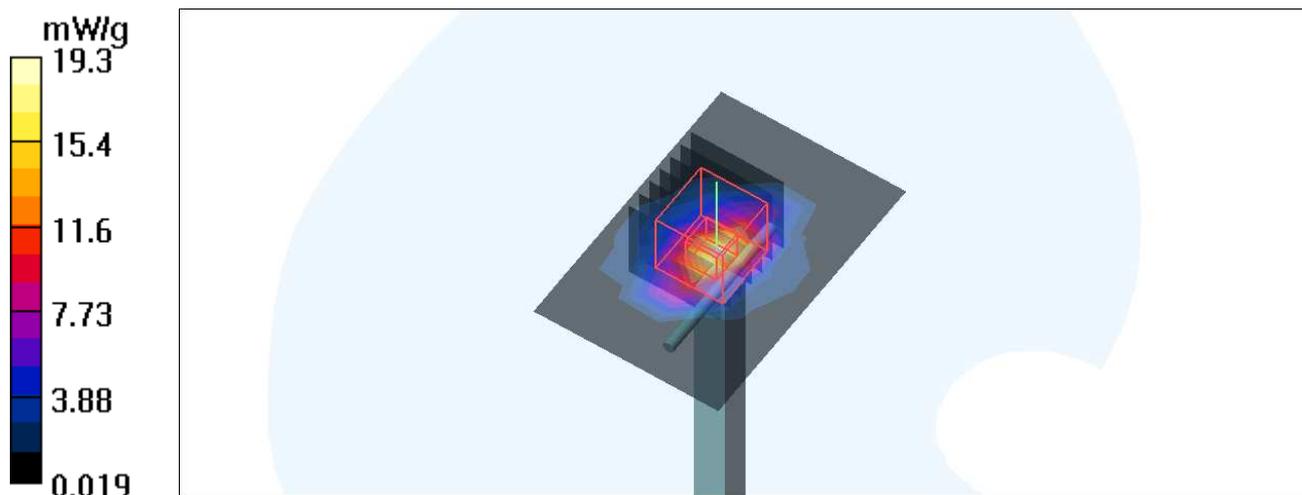Maximum value of SAR (measured) = 19.3 mW/g

**d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm,
dz=5mm
Reference Value = 98.2 V/m; Power Drift = 0.021 dB
Peak SAR (extrapolated) = 32.9 W/kg
**SAR(1 g) = 14.2 mW/g; SAR(10 g) = 6.02 mW/g**
Maximum value of SAR (measured) = 19.0 mW/g



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Test Laboratory: Bureau Veritas ADT

## System Validation Check-MSL 2450MHz 6-13

**DUT: Dipole 2450 MHz ; Type: D2450V2 ; Serial: 737 ; Test Frequency: 2450 MHz**

Communication System: CW ; Frequency: 2450 MHz; Duty Cycle: 1:1; Modulation type: CW
Medium: MSL2450;Medium parameters used: f = 2450 MHz; $\sigma$ = 2.04 mho/m; $\varepsilon_r$ = 53.8; $\rho$ = 1000 kg/m$^3$ ; Liquid level : 151 mm
Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of   the dipole to the Phantom)Air temp. : 23 degrees ; Liquid temp. : 22.7 degrees


DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.2, 8.2, 8.2) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2010/1/22
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186


**d=10mm, Pin=250mW/Area Scan (5x7x1):** Measurement grid: dx=15mm, dy=15mm
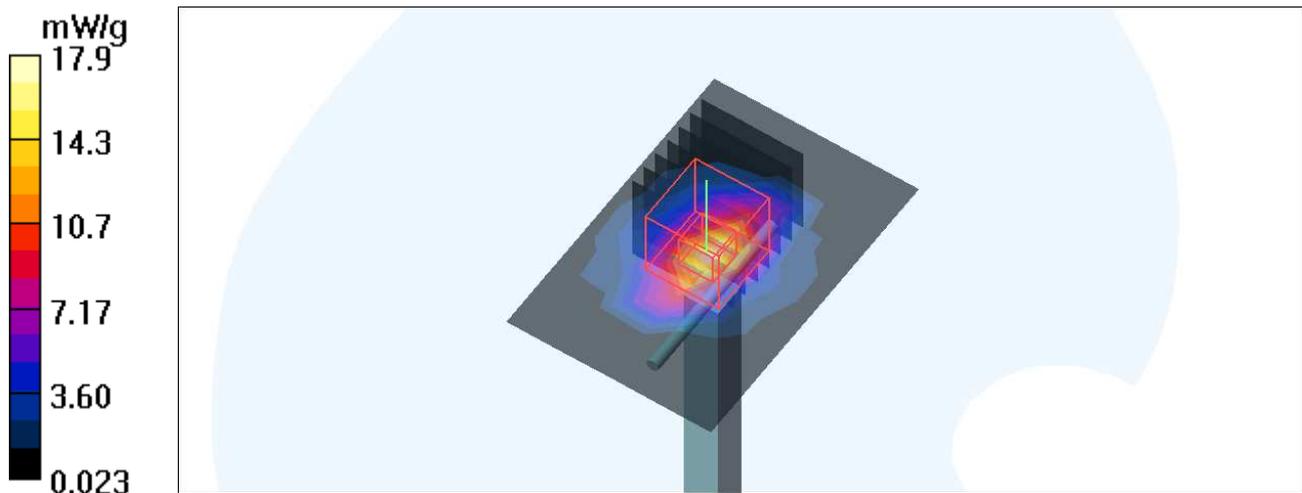Maximum value of SAR (measured) = 17.9 mW/g


**d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 94.6 V/m; Power Drift = -0.012 dB
Peak SAR (extrapolated) = 28.6 W/kg
**SAR(1 g) = 13.3 mW/g; SAR(10 g) = 6.01 mW/g**
Maximum value of SAR (measured) = 17.7 mW/g

Test Laboratory: Bureau Veritas ADT

## System Validation Check-MSL 2600MHz 6-13

**DUT: Dipole 2600 MHz ; Type: D2600V2 ; Serial: 1020 ; Test Frequency: 2600 MHz**

Communication System: CW ; Frequency: 2600 MHz; Duty Cycle: 1:1; Modulation type: CW
Medium: MSL2600;Medium parameters used: f = 2600 MHz; $\sigma$ = 2.22 mho/m; $\varepsilon_r$ = 53.3; $\rho$ = 1000 kg/m$^3$ ; Liquid level : 151 mm
Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of   the dipole to the Phantom)Air temp. : 23 degrees ; Liquid temp. : 22.7 degrees


DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2010/1/22
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186


**d=10mm, Pin=250mW/Area Scan (5x7x1):** Measurement grid: dx=15mm, dy=15mm
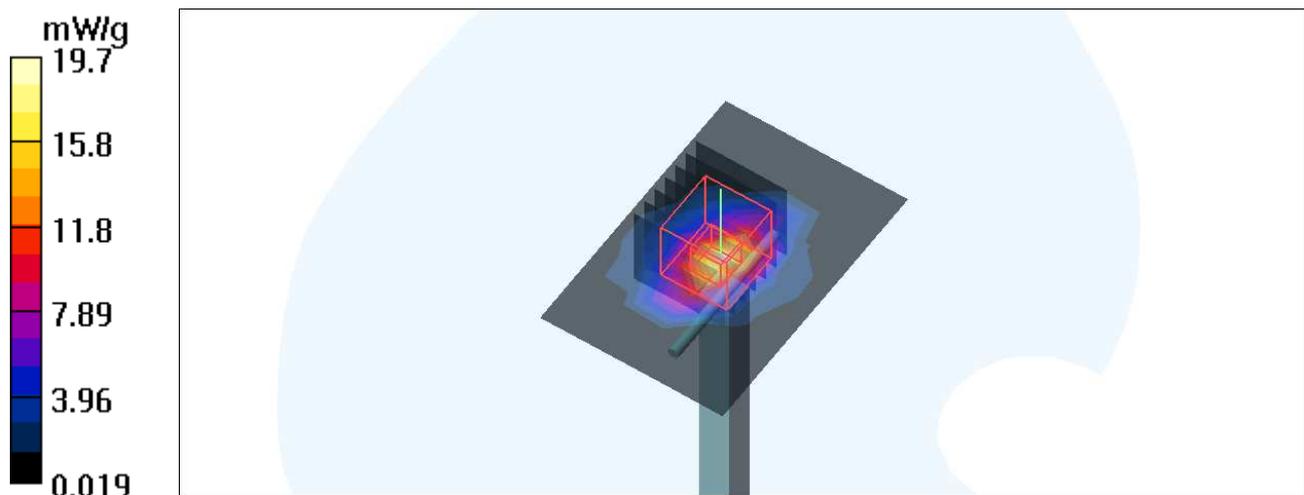Maximum value of SAR (measured) = 19.7 mW/g


**d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 98.2 V/m; Power Drift = 0.026 dB
Peak SAR (extrapolated) = 33.5 W/kg
**SAR(1 g) = 14.4 mW/g; SAR(10 g) = 6.14 mW/g**
Maximum value of SAR (measured) = 19.4 mW/g

Test Laboratory: Bureau Veritas ADT

## System Validation Check-MSL 2450MHz 6-14

**DUT: Dipole 2450 MHz ; Type: D2450V2 ; Serial: 737 ; Test Frequency: 2450 MHz**

Communication System: CW ; Frequency: 2450 MHz; Duty Cycle: 1:1; Modulation type: CW
Medium: MSL2450;Medium parameters used: f = 2450 MHz; σ = 2.04 mho/m; $\varepsilon_r$ = 53.4; ρ = 1000 kg/m$^3$ ; Liquid level : 152 mm
Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of   the dipole to the Phantom)Air temp. : 23.1 degrees ; Liquid temp. : 22.8 degrees

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.2, 8.2, 8.2) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2010/1/22
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**d=10mm, Pin=250mW/Area Scan (5x7x1):** Measurement grid: dx=15mm, dy=15mm
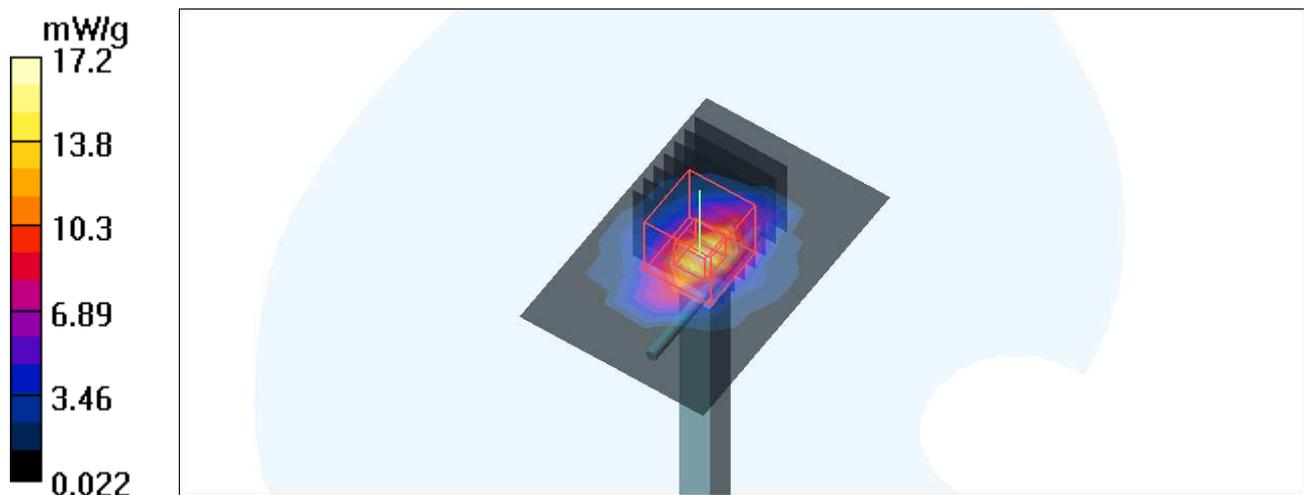Maximum value of SAR (measured) = 17.2 mW/g

**d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 94.6 V/m; Power Drift = -0.028 dB
Peak SAR (extrapolated) = 27.4 W/kg
**SAR(1 g) = 12.8 mW/g; SAR(10 g) = 5.77 mW/g**
Maximum value of SAR (measured) = 17.0 mW/g

Test Laboratory: Bureau Veritas ADT

## System Validation Check-MSL 2600MHz 6-14

**DUT: Dipole 2600 MHz ; Type: D2600V2 ; Serial: 1020 ; Test Frequency: 2600 MHz**

Communication System: CW ; Frequency: 2600 MHz; Duty Cycle: 1:1; Modulation type: CW
Medium: MSL2600;Medium parameters used: f = 2600 MHz; σ = 2.21 mho/m; $\varepsilon_r$ = 53.1; ρ = 1000 kg/m$^3$ ; Liquid level : 152 mm
Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of   the dipole to the Phantom)Air temp. : 23.1 degrees ; Liquid temp. : 22.8 degrees

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2010/1/22
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**d=10mm, Pin=250mW/Area Scan (5x7x1):** Measurement grid: dx=15mm, dy=15mm
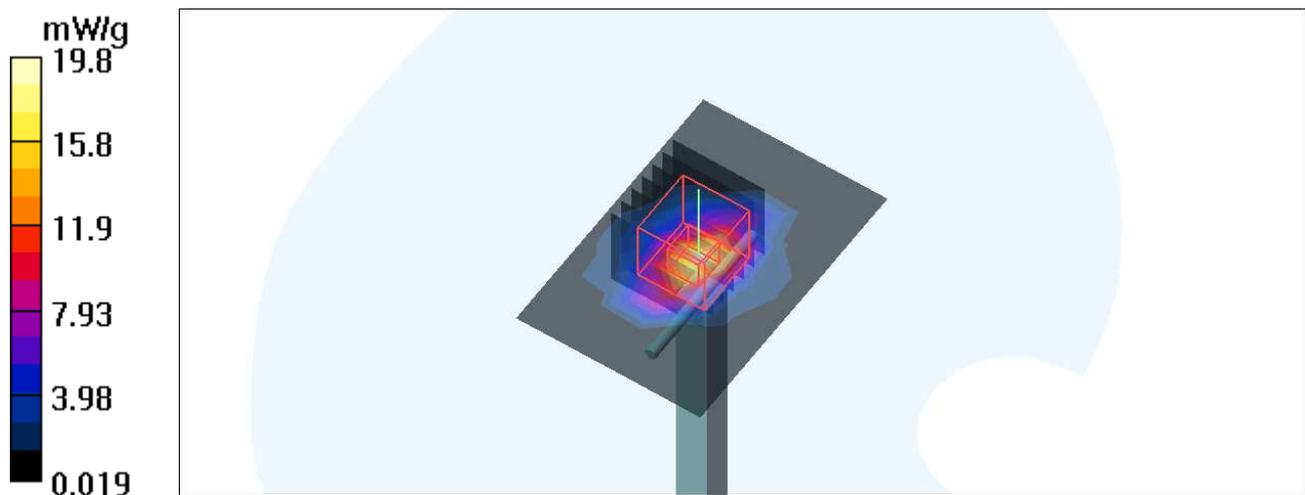Maximum value of SAR (measured) = 19.8 mW/g

**d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 98.2 V/m; Power Drift = 0.016 dB
Peak SAR (extrapolated) = 33.8 W/kg
**SAR(1 g) = 14.5 mW/g; SAR(10 g) = 6.17 mW/g**
Maximum value of SAR (measured) = 19.5 mW/g

Test Laboratory: Bureau Veritas ADT

## System Validation Check-MSL 2450MHz 6-15

**DUT: Dipole 2450 MHz ; Type: D2450V2 ; Serial: 737 ; Test Frequency: 2450 MHz**

Communication System: CW ; Frequency: 2450 MHz; Duty Cycle: 1:1; Modulation type: CW
Medium: MSL2450;Medium parameters used: f = 2450 MHz; $\sigma$ = 2.03 mho/m; $\varepsilon_r$ = 53.5; $\rho$ = 1000 kg/m$^3$ ; Liquid level : 150mm
Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of   the dipole to the Phantom)Air temp. : 23 degrees ; Liquid temp. : 22.7 degrees


DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.2, 8.2, 8.2) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2010/1/22
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186


**d=10mm, Pin=250mW/Area Scan (5x7x1):** Measurement grid: dx=15mm, dy=15mm
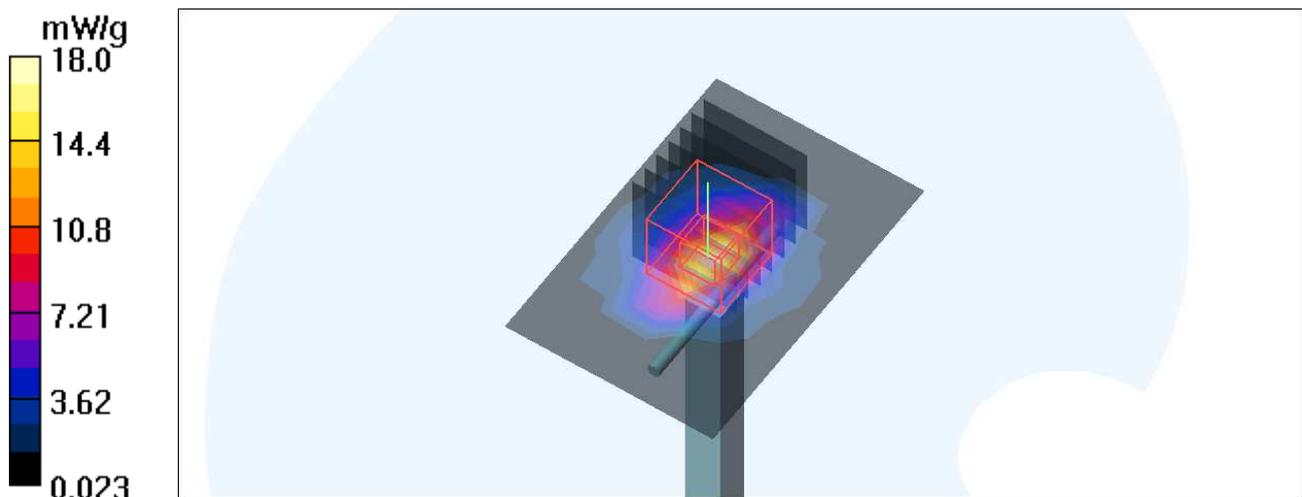Maximum value of SAR (measured) = 18.0 mW/g


**d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 94.6 V/m; Power Drift = -0.014 dB
Peak SAR (extrapolated) = 28.8 W/kg
**SAR(1 g) = 13.4 mW/g; SAR(10 g) = 6.05 mW/g**
Maximum value of SAR (measured) = 17.8 mW/g

Test Laboratory: Bureau Veritas ADT

## System Validation Check-MSL 2600MHz 6-15

**DUT: Dipole 2600 MHz ; Type: D2600V2 ; Serial: 1020 ; Test Frequency: 2600 MHz**

Communication System: CW ; Frequency: 2600 MHz; Duty Cycle: 1:1; Modulation type: CW
Medium: MSL2600;Medium parameters used: f = 2600 MHz; $\sigma$ = 2.2 mho/m; $\varepsilon_r$ = 53.1; $\rho$ = 1000 kg/m$^3$ ;
Liquid level : 150 mm
Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of  the dipole to the
Phantom)Air temp. : 23 degrees ; Liquid temp. : 22.7 degrees

DASY4 Configuration:
- Probe: EX3DV4 - SN3590 ; ConvF(8.04, 8.04, 8.04) ; Calibrated: 2010/3/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2010/1/22
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**d=10mm, Pin=250mW/Area Scan (5x7x1):** Measurement grid: dx=15mm, dy=15mm
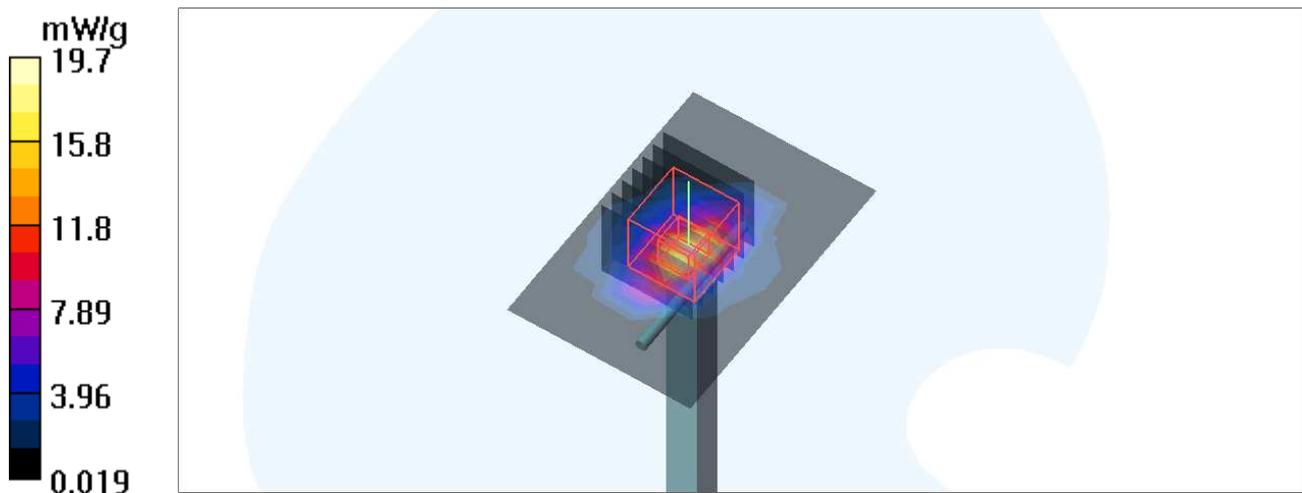Maximum value of SAR (measured) = 19.7 mW/g

**d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm,
dz=5mm
Reference Value = 98.2 V/m; Power Drift = 0.029 dB
Peak SAR (extrapolated) = 33.5 W/kg
**SAR(1 g) = 14.4 mW/g; SAR(10 g) = 6.13 mW/g**
Maximum value of SAR (measured) = 19.4 mW/g

# APPENDIX B: BV ADT SAR MEASUREMENT SYSTEM

# APPENDIX C: PHOTOGRAPHS OF SYSTEM VALIDATION