APPENDIX A: TEST DATA
Liquid Level Photo

MSL 2450MHz D=151mm

Test Laboratory: Advance Data Technology

N800C-11b-CH1-Mode 1

DUT: Wireless 802.11n CardBus PC Card ; Type: WN511T ; Test Frequency: 2412 MHz

Communication System: 802.11b ; Frequency: 2412 MHz ; Duty Cycle: 1:1 ; Modulation type: CCK
Medium: MSL2450 Medium parameters used: f = 2412 MHz; σ = 1.96 mho/m; $ε_r$ = 53.7; ρ = 1000 kg/m^3 ; Liquid level : 151 mm
Phantom section: Flat Section ; Separation distance : 10 mm (The bottom side of the EUT to the Phantom)
Antenna type : Printed Antenna ; Air temp. : 22.1 degrees ; Liquid temp. : 21.2 degrees

DASY4 Configuration:
- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2004/12/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510 ; Calibrated: 2005/8/17
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.6 Build 23 ; Postprocessing SW: SEMCAD, V1.8 Build 161

Low Channel 1/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm
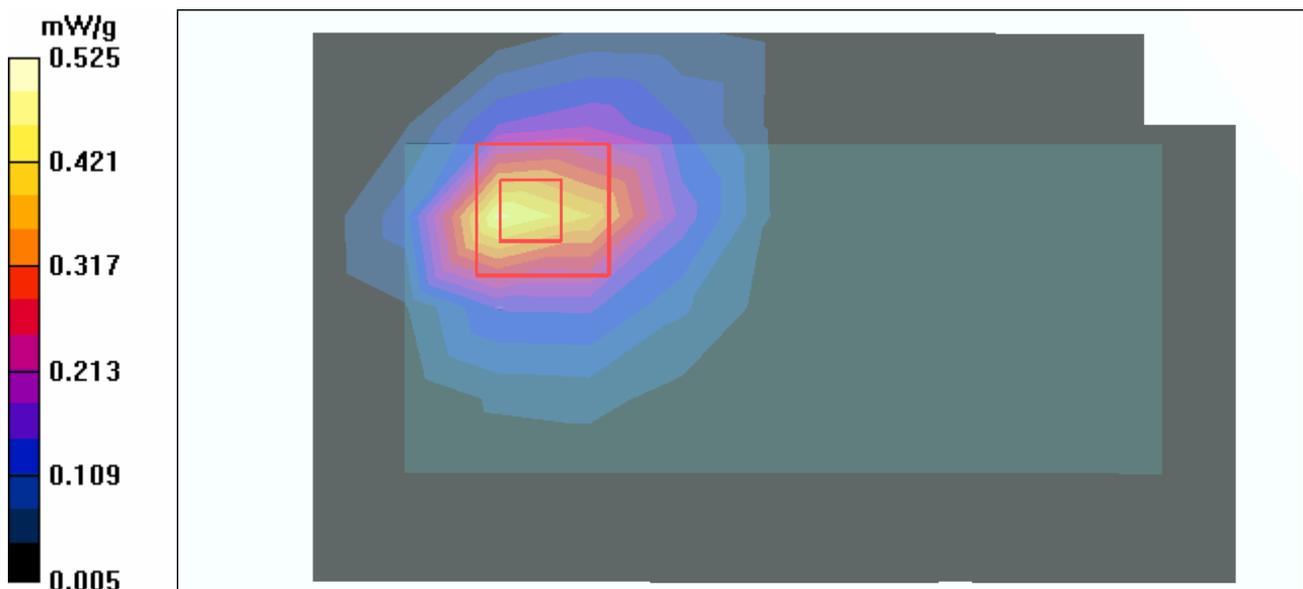Maximum value of SAR (measured) = 0.467 mW/g

Low Channel 1/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.28 V/m
Peak SAR (extrapolated) = 1.07 W/kg
SAR(1 g) = 0.469 mW/g; SAR(10 g) = 0.216 mW/g
Maximum value of SAR (measured) = 0.525 mW/g

Test Laboratory: Advance Data Technology

N800C-11b-CH6-Mode 1

DUT: Wireless 802.11n CardBus PC Card ; Type: WN511T ; Test Frequency: 2437 MHz

Communication System: 802.11b ; Frequency: 2437 MHz ; Duty Cycle: 1:1 ; Modulation type: CCK
Medium: MSL2450 Medium parameters used: f = 2437 MHz; σ = 2 mho/m; ε_r = 53.6; ρ = 1000 kg/m^3 ; Liquid level : 151 mm
Phantom section: Flat Section ; Separation distance : 10 mm (The bottom side of the EUT to the Phantom)
Antenna type : Printed Antenna ; Air temp. : 22.1 degrees ; Liquid temp. : 21.2 degrees

DASY4 Configuration:
- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2004/12/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510 ; Calibrated: 2005/8/17
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.6 Build 23 ; Postprocessing SW: SEMCAD, V1.8 Build 161

Mid Channel 6/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm
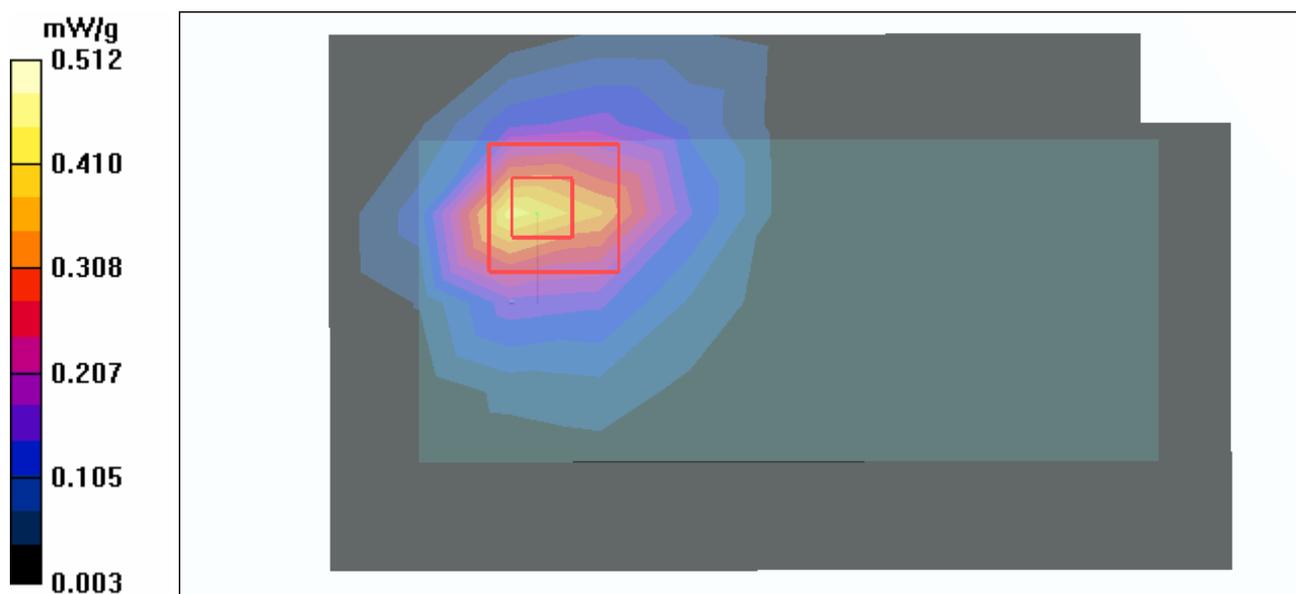Maximum value of SAR (measured) = 0.429 mW/g

Mid Channel 6/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.46 V/m
Peak SAR (extrapolated) = 1.06 W/kg
SAR(1 g) = 0.457 mW/g; SAR(10 g) = 0.208 mW/g
Maximum value of SAR (measured) = 0.512 mW/g

Test Laboratory: Advance Data Technology

N800C-11b-CH11-Mode 1

DUT: Wireless 802.11n CardBus PC Card ; Type: WN511T ; Test Frequency: 2462 MHz

Communication System: 802.11b ; Frequency: 2462 MHz ; Duty Cycle: 1:1 ; Modulation type: CCK
Medium: MSL2450 Medium parameters used: f = 2462 MHz; σ = 2.04 mho/m; ε_r = 53.5; ρ = 1000 kg/m^3 ; Liquid level : 151 mm
Phantom section: Flat Section ; Separation distance : 10 mm (The bottom side of the EUT to the Phantom)
Antenna type : Printed Antenna ; Air temp. : 22.1 degrees ; Liquid temp. : 21.2 degrees

DASY4 Configuration:
- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2004/12/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510 ; Calibrated: 2005/8/17
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.6 Build 23 ; Postprocessing SW: SEMCAD, V1.8 Build 161

High Channel 11/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm
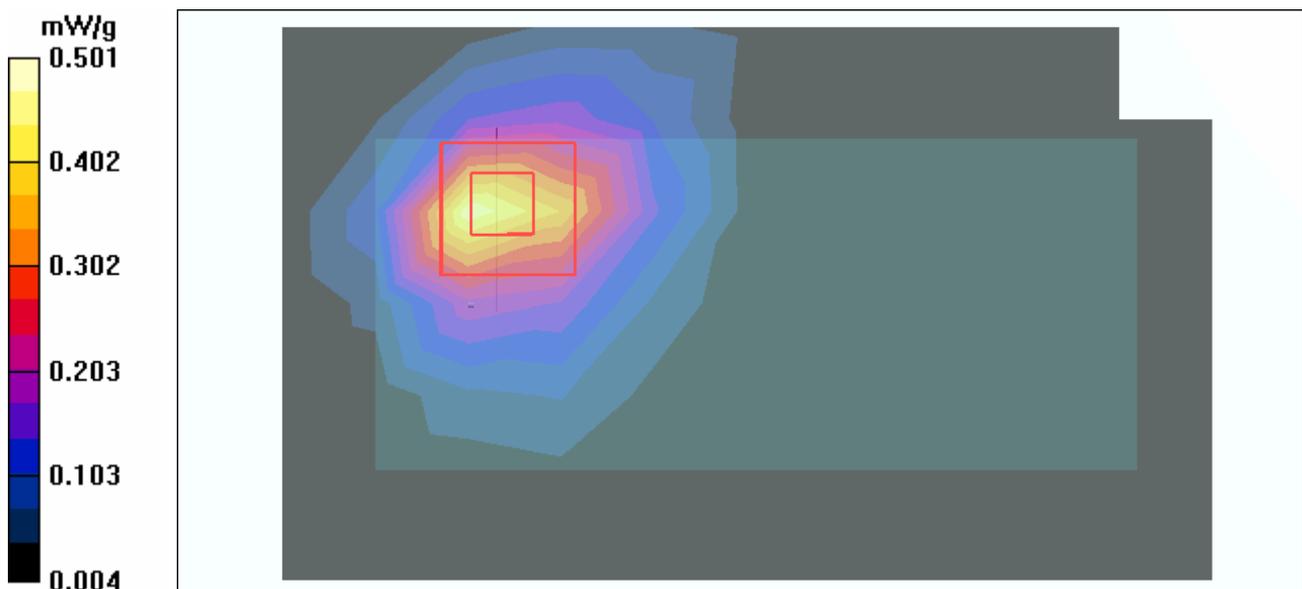Maximum value of SAR (measured) = 0.463 mW/g

High Channel 11/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.5 V/m
Peak SAR (extrapolated) = 1.06 W/kg
SAR(1 g) = 0.458 mW/g; SAR(10 g) = 0.209 mW/g
Maximum value of SAR (measured) = 0.501 mW/g

Test Laboratory: Advance Data Technology

N800C-11g-CH1-Mode 2

DUT: Wireless 802.11n CardBus PC Card ; Type: WN511T ; Test Frequency: 2412 MHz

Communication System: 802.11g ; Frequency: 2412 MHz ; Duty Cycle: 1:1 ; Modulation type: OFDM
Medium: MSL2450 Medium parameters used: f = 2412 MHz; σ = 1.96 mho/m; ε_r = 53.7; ρ = 1000 kg/m^3 ; Liquid level : 151 mm
Phantom section: Flat Section ; Separation distance : 10 mm (The bottom side of the EUT to the Phantom)
Antenna type : Printed Antenna ; Air temp. : 22.1 degrees ; Liquid temp. : 21.2 degrees

DASY4 Configuration:
- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2004/12/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510 ; Calibrated: 2005/8/17
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.6 Build 23 ; Postprocessing SW: SEMCAD, V1.8 Build 161

Low Channel 1/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm
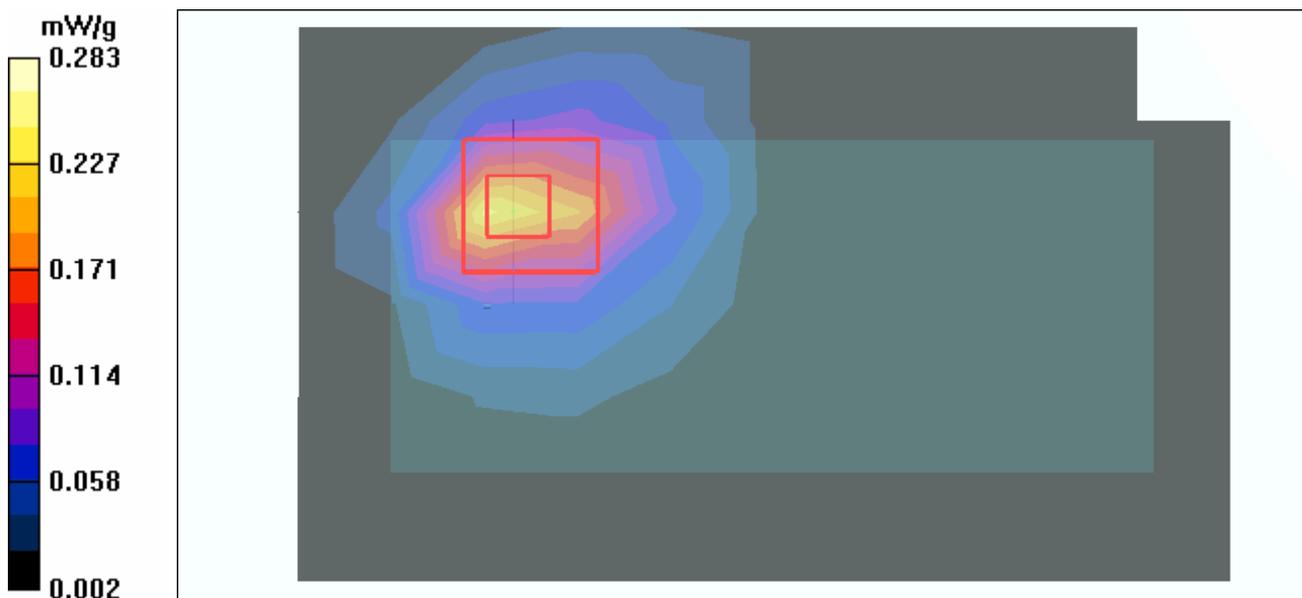Maximum value of SAR (measured) = 0.233 mW/g

Low Channel 1/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.40 V/m
Peak SAR (extrapolated) = 0.576 W/kg
SAR(1 g) = 0.250 mW/g; SAR(10 g) = 0.114 mW/g
Maximum value of SAR (measured) = 0.283 mW/g

Test Laboratory: Advance Data Technology

N800C-11g-CH6-Mode 2

DUT: Wireless 802.11n CardBus PC Card ; Type: WN511T ; Test Frequency: 2437 MHz

Communication System: 802.11g ; Frequency: 2437 MHz ; Duty Cycle: 1:1 ; Modulation type: OFDM
Medium: MSL2450 Medium parameters used: f = 2437 MHz; σ = 2 mho/m; ε_r = 53.6; ρ = 1000
kg/m^3 ; Liquid level : 151 mm
Phantom section: Flat Section ; Separation distance : 10 mm (The bottom side of the EUT to the Phantom)
Antenna type : Printed Antenna ; Air temp. : 22.1 degrees ; Liquid temp. : 21.2 degrees

DASY4 Configuration:
- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2004/12/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510 ; Calibrated: 2005/8/17
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.6 Build 23 ; Postprocessing SW: SEMCAD, V1.8 Build 161

Mid Channel 6/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm
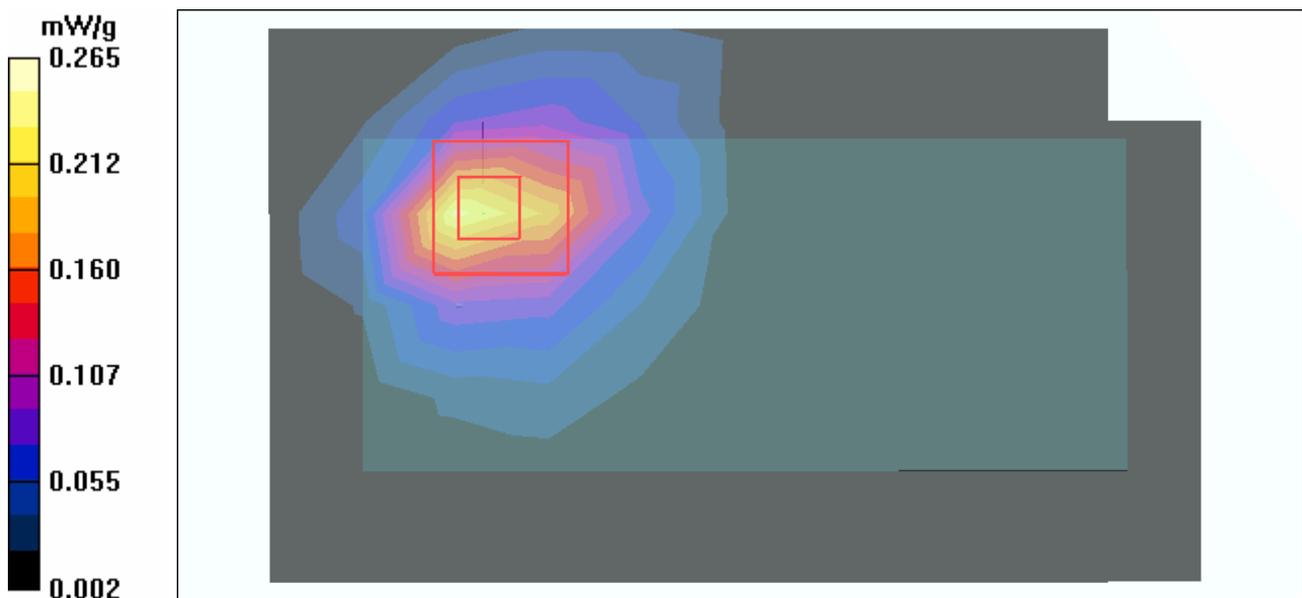Maximum value of SAR (measured) = 0.237 mW/g

Mid Channel 6/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm,
dz=5mm
Reference Value = 7.05 V/m
Peak SAR (extrapolated) = 0.547 W/kg
SAR(1 g) = 0.237 mW/g; SAR(10 g) = 0.108 mW/g
Maximum value of SAR (measured) = 0.265 mW/g

Test Laboratory: Advance Data Technology

N800C-11g-CH11-Mode 2

DUT: Wireless 802.11n CardBus PC Card ; Type: WN511T ; Test Frequency: 2462 MHz

Communication System: 802.11g ; Frequency: 2462 MHz ; Duty Cycle: 1:1 ; Modulation type: OFDM
Medium: MSL2450 Medium parameters used: $f = 2462$ MHz; $\sigma = 2.04$ mho/m; $\varepsilon_r = 53.5$; $\rho = 1000$ kg/m^3 ; Liquid level : 151 mm
Phantom section: Flat Section ; Separation distance : 10 mm (The bottom side of the EUT to the Phantom)
Antenna type : Printed Antenna ; Air temp. : 22.1 degrees ; Liquid temp. : 21.2 degrees

DASY4 Configuration:
- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2004/12/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510 ; Calibrated: 2005/8/17
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.6 Build 23 ; Postprocessing SW: SEMCAD, V1.8 Build 161

High Channel 11/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm
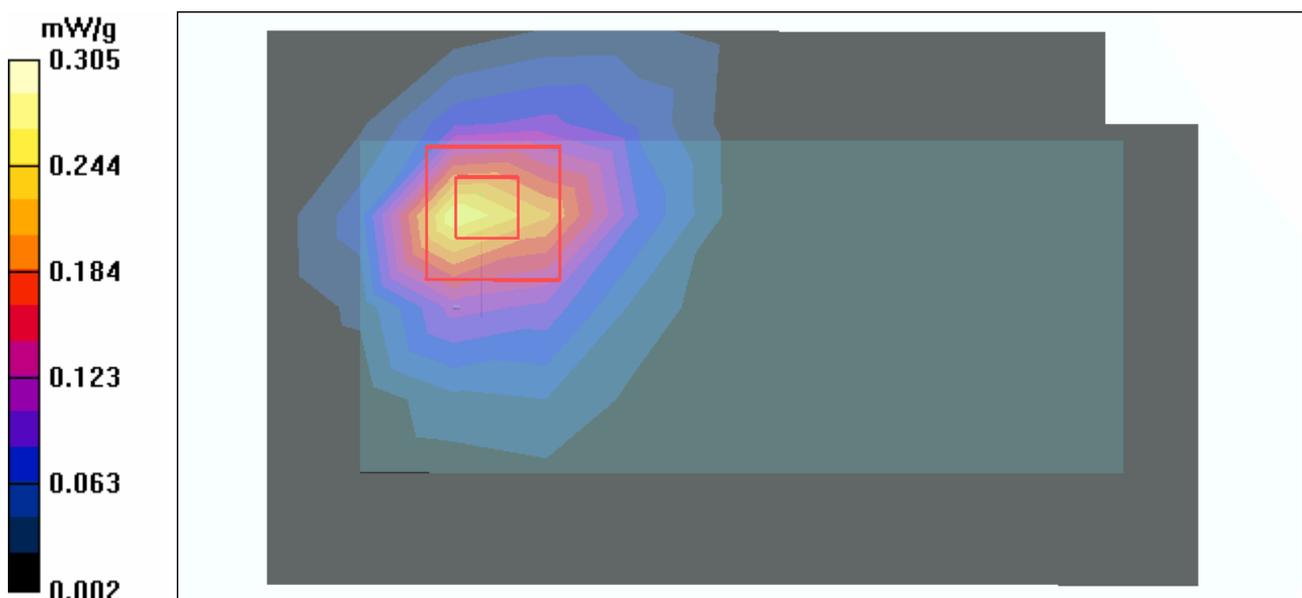Maximum value of SAR (measured) = 0.266 mW/g

High Channel 11/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.81 V/m
Peak SAR (extrapolated) = 0.651 W/kg
SAR(1 g) = 0.276 mW/g; SAR(10 g) = 0.125 mW/g
Maximum value of SAR (measured) = 0.305 mW/g

Test Laboratory: Advance Data Technology

N800C-20MHz-EWC-Single-CH1-Mode 3

DUT: Wireless 802.11n CardBus PC Card ; Type: WN511T ; Test Frequency: 2412 MHz

Communication System: 802.11g ; Frequency: 2412 MHz ; Duty Cycle: 1:1 ; Modulation type: OFDM
Medium: MSL2450 Medium parameters used: f = 2412 MHz; σ = 1.96 mho/m; ε_r = 53.7; ρ = 1000
kg/m^3 ; Liquid level : 151 mm
Phantom section: Flat Section ; Separation distance : 10 mm (The bottom side of the EUT to the Phantom)
Antenna type : Printed Antenna ; Air temp. : 22.1 degrees ; Liquid temp. : 21.2 degrees

DASY4 Configuration:
- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2004/12/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510 ; Calibrated: 2005/8/17
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.6 Build 23 ; Postprocessing SW: SEMCAD, V1.8 Build 161

Low Channel 1/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm
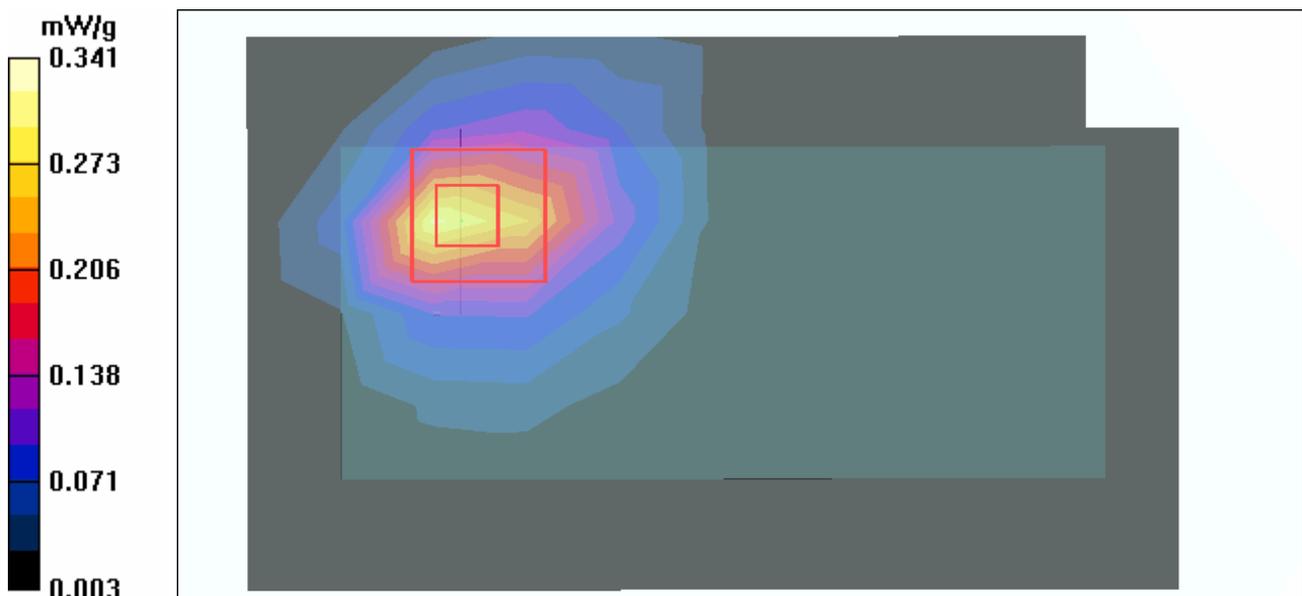Maximum value of SAR (measured) = 0.304 mW/g

Low Channel 1/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm,
dz=5mm
Reference Value = 7.49 V/m
Peak SAR (extrapolated) = 0.734 W/kg
SAR(1 g) = 0.306 mW/g; SAR(10 g) = 0.140 mW/g
Maximum value of SAR (measured) = 0.341 mW/g

Test Laboratory: Advance Data Technology

N800C-20MHz-EWC-Single-CH6-Mode 3

DUT: Wireless 802.11n CardBus PC Card ; Type: WN511T ; Test Frequency: 2437 MHz

Communication System: 802.11g ; Frequency: 2437 MHz ; Duty Cycle: 1:1 ; Modulation type: OFDM
Medium: MSL2450 Medium parameters used: f = 2437 MHz; σ = 2 mho/m; ε_r = 53.6; ρ = 1000 kg/m^3 ; Liquid level : 151 mm
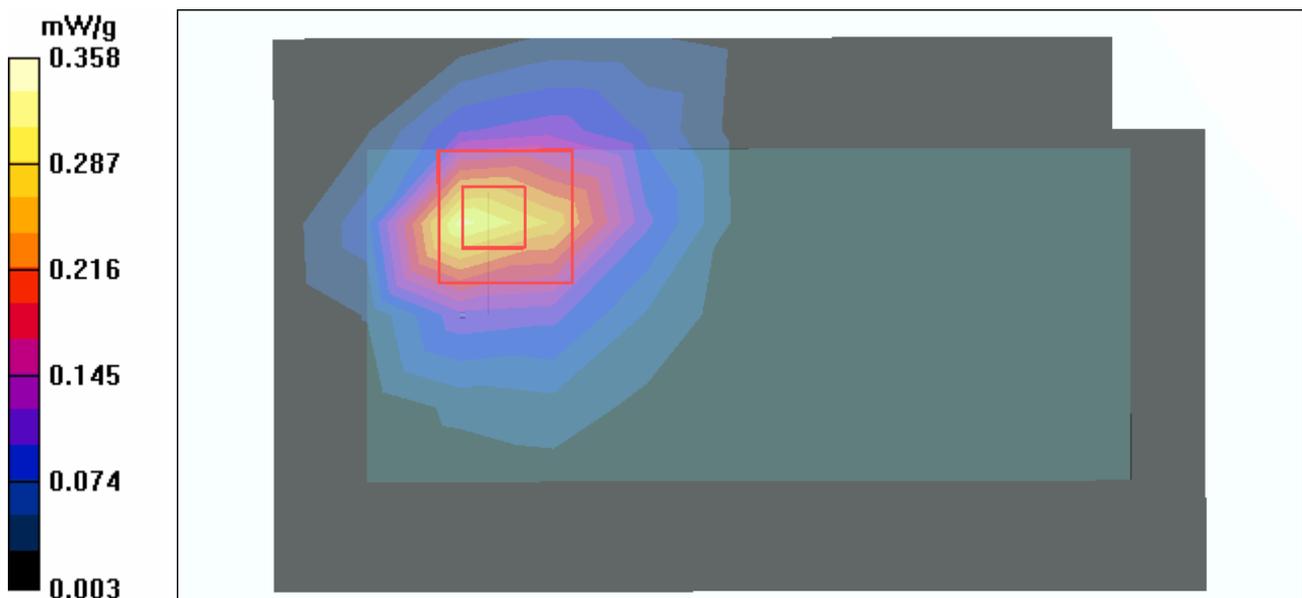Phantom section: Flat Section ; Separation distance : 10 mm (The bottom side of the EUT to the Phantom)
Antenna type : Printed Antenna ; Air temp. : 22.1 degrees ; Liquid temp. : 21.2 degrees

DASY4 Configuration:
- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2004/12/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510 ; Calibrated: 2005/8/17
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.6 Build 23 ; Postprocessing SW: SEMCAD, V1.8 Build 161

Mid Channel 6/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.321 mW/g

Mid Channel 6/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.20 V/m
Peak SAR (extrapolated) = 0.746 W/kg
SAR(1 g) = 0.318 mW/g; SAR(10 g) = 0.145 mW/g
Maximum value of SAR (measured) = 0.358 mW/g

Test Laboratory: Advance Data Technology

N800C-20MHz-EWC-Single-CH11-Mode 3

DUT: Wireless 802.11n CardBus PC Card ; Type: WN511T ; Test Frequency: 2462 MHz

Communication System: 802.11g ; Frequency: 2462 MHz ; Duty Cycle: 1:1 ; Modulation type: OFDM
Medium: MSL2450 Medium parameters used: f = 2462 MHz; σ = 2.04 mho/m; ε_r = 53.5; ρ = 1000 kg/m^3 ; Liquid level : 151 mm
Phantom section: Flat Section ; Separation distance : 10 mm (The bottom side of the EUT to the Phantom)
Antenna type : Printed Antenna ; Air temp. : 22.1 degrees ; Liquid temp. : 21.2 degrees

DASY4 Configuration:
- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2004/12/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510 ; Calibrated: 2005/8/17
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.6 Build 23 ; Postprocessing SW: SEMCAD, V1.8 Build 161

High Channel 11/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.337 mW/g

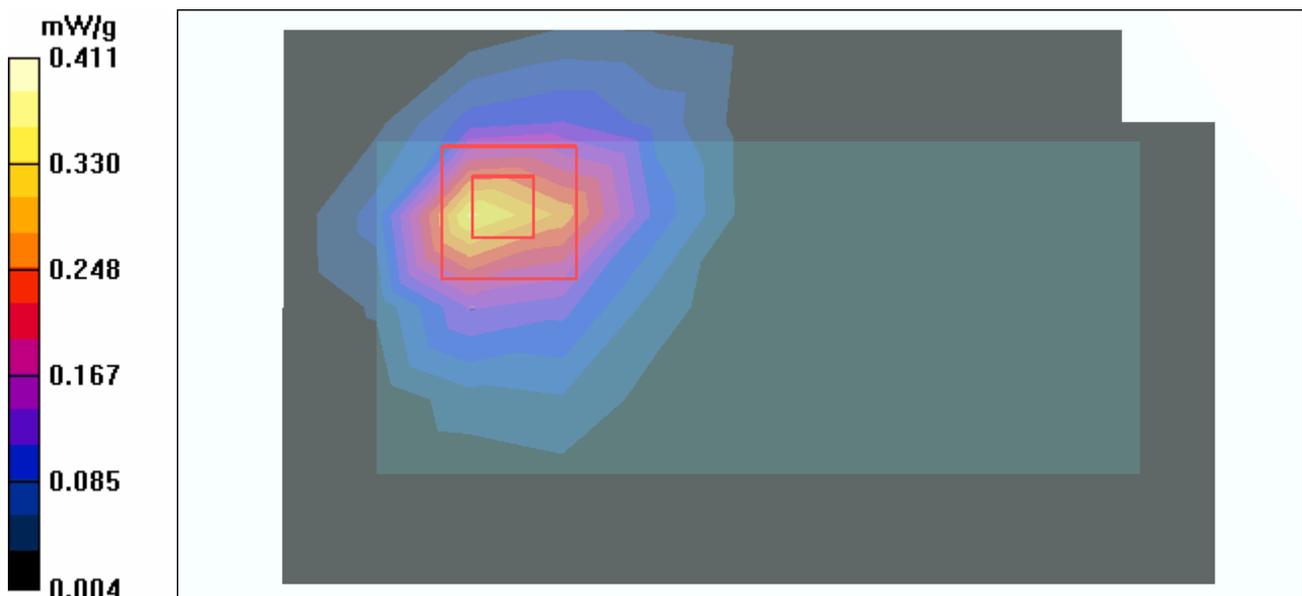**High Channel 11/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.84 V/m
Peak SAR (extrapolated) = 0.876 W/kg
SAR(1 g) = 0.373 mW/g; SAR(10 g) = 0.168 mW/g
Maximum value of SAR (measured) = 0.411 mW/g

Test Laboratory: Advance Data Technology

N800C-20MHz-EWC-Dual-Mode 4

DUT: Wireless 802.11n CardBus PC Card ; Type: WN511T ; Test Frequency: 2412 MHz

Communication System: 802.11g ; Frequency: 2412 MHz ; Duty Cycle: 1:1 ; Modulation type: OFDM

Medium: MSL2450 Medium parameters used: f = 2412 MHz; σ = 1.96 mho/m; ε_r = 53.7; ρ = 1000 kg/m^3 ; Liquid level : 151 mm

Phantom section: Flat Section ; Separation distance : 10 mm (The bottom side of the EUT to the Phantom)

Antenna type : Printed Antenna ; Air temp. : 22.1 degrees ; Liquid temp. : 21.2 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2004/12/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510 ; Calibrated: 2005/8/17
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.6 Build 23 ; Postprocessing SW: SEMCAD, V1.8 Build 161

Low Channel 1/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.379 mW/g

Low Channel 1/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.1 V/m

Peak SAR (extrapolated) = 0.864 W/kg

SAR(1 g) = 0.395 mW/g; SAR(10 g) = 0.197 mW/g

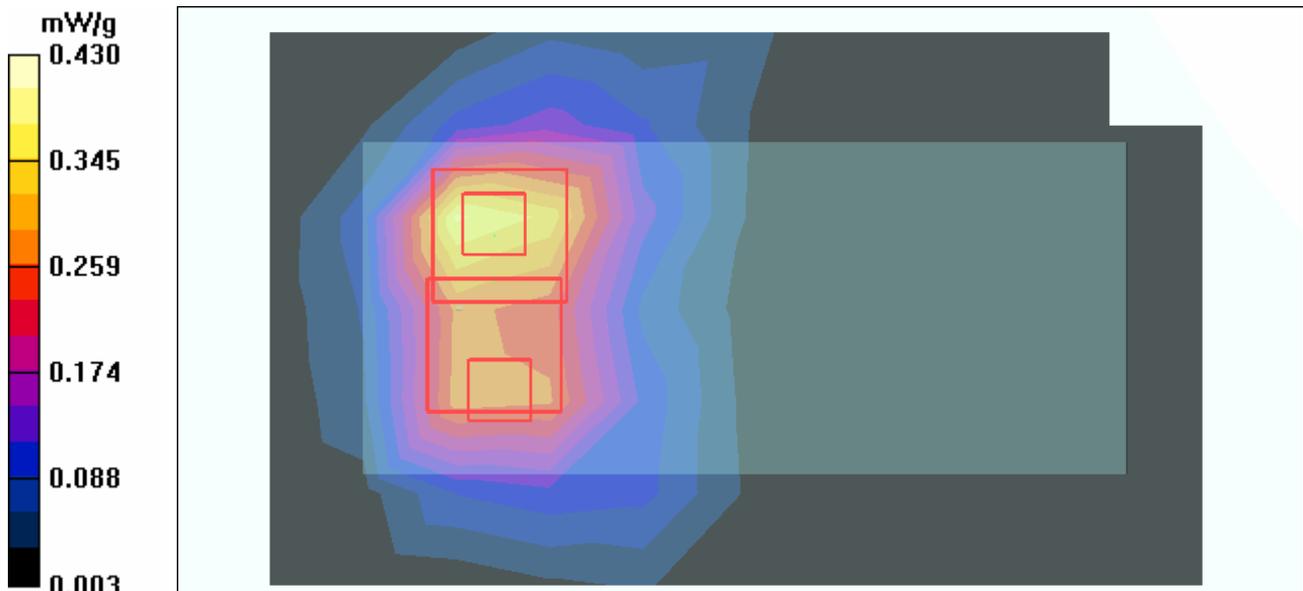Maximum value of SAR (measured) = 0.430 mW/g

Low Channel 1/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.1 V/m

Peak SAR (extrapolated) = 0.665 W/kg

SAR(1 g) = 0.300 mW/g; SAR(10 g) = 0.159 mW/g

Maximum value of SAR (measured) = 0.336 mW/g

Test Laboratory: Advance Data Technology

N800C-20MHz-EWC-Dual-Mode 4

DUT: Wireless 802.11n CardBus PC Card ; Type: WN511T ; Test Frequency: 2437 MHz

Communication System: 802.11g ; Frequency: 2437 MHz ; Duty Cycle: 1:1 ; Modulation type: OFDM

Medium: MSL2450 Medium parameters used: f = 2437 MHz; σ = 2 mho/m; ε_r = 53.6; ρ = 1000 kg/m^3 ; Liquid level : 151 mm

Phantom section: Flat Section ; Separation distance : 10 mm (The bottom side of the EUT to the Phantom)

Antenna type : Printed Antenna ; Air temp. : 22.1 degrees ; Liquid temp. : 21.2 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2004/12/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510 ; Calibrated: 2005/8/17
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.6 Build 23 ; Postprocessing SW: SEMCAD, V1.8 Build 161

Mid Channel 6/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.437 mW/g

Mid Channel 6/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.1 V/m

Peak SAR (extrapolated) = 0.957 W/kg

SAR(1 g) = 0.440 mW/g; SAR(10 g) = 0.221 mW/g

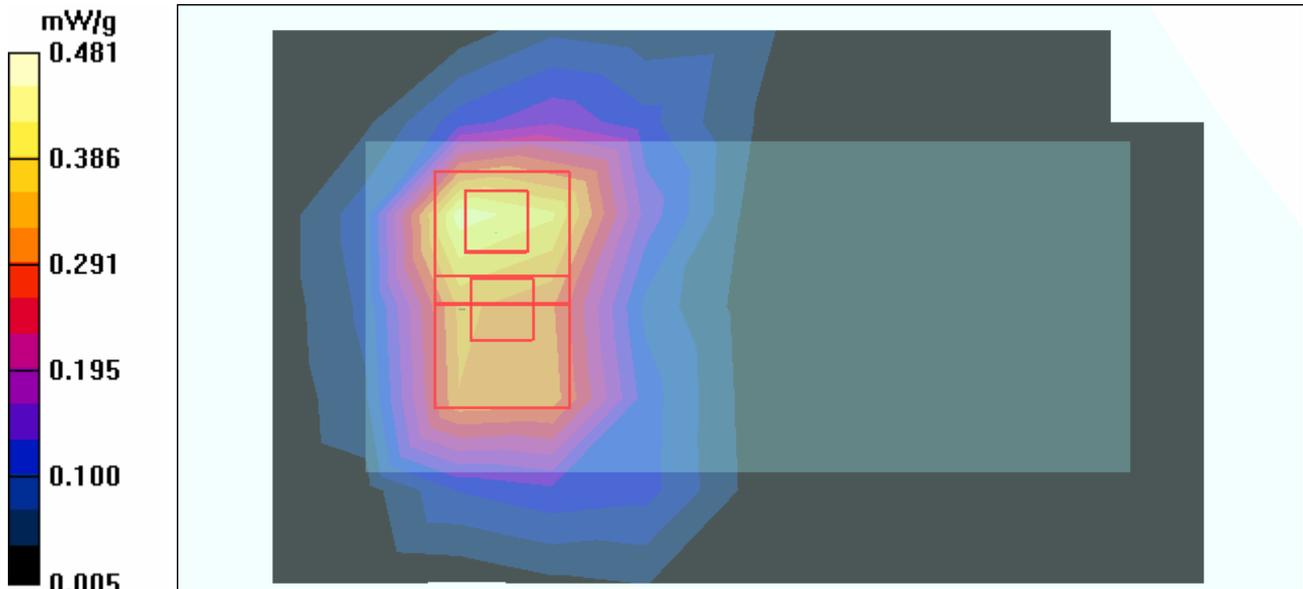Maximum value of SAR (measured) = 0.481 mW/g

Mid Channel 6/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.1 V/m

Peak SAR (extrapolated) = 0.758 W/kg

SAR(1 g) = 0.344 mW/g; SAR(10 g) = 0.184 mW/g

Maximum value of SAR (measured) = 0.393 mW/g

Test Laboratory: Advance Data Technology

N800C-20MHz-EWC-Dual-Mode 4

DUT: Wireless 802.11n CardBus PC Card ; Type: WN511T ; Test Frequency: 2462 MHz

Communication System: 802.11g ; Frequency: 2462 MHz ; Duty Cycle: 1:1 ; Modulation type: OFDM
Medium: MSL2450 Medium parameters used: f = 2462 MHz; σ = 2.04 mho/m; ε_r = 53.5; ρ = 1000 kg/m^3 ; Liquid level : 151 mm
Phantom section: Flat Section ; Separation distance : 10 mm (The bottom side of the EUT to the Phantom)
Antenna type : Printed Antenna ; Air temp. : 22.1 degrees ; Liquid temp. : 21.2 degrees

DASY4 Configuration:
- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2004/12/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510 ; Calibrated: 2005/8/17
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.6 Build 23 ; Postprocessing SW: SEMCAD, V1.8 Build 161

High Channel 11/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm
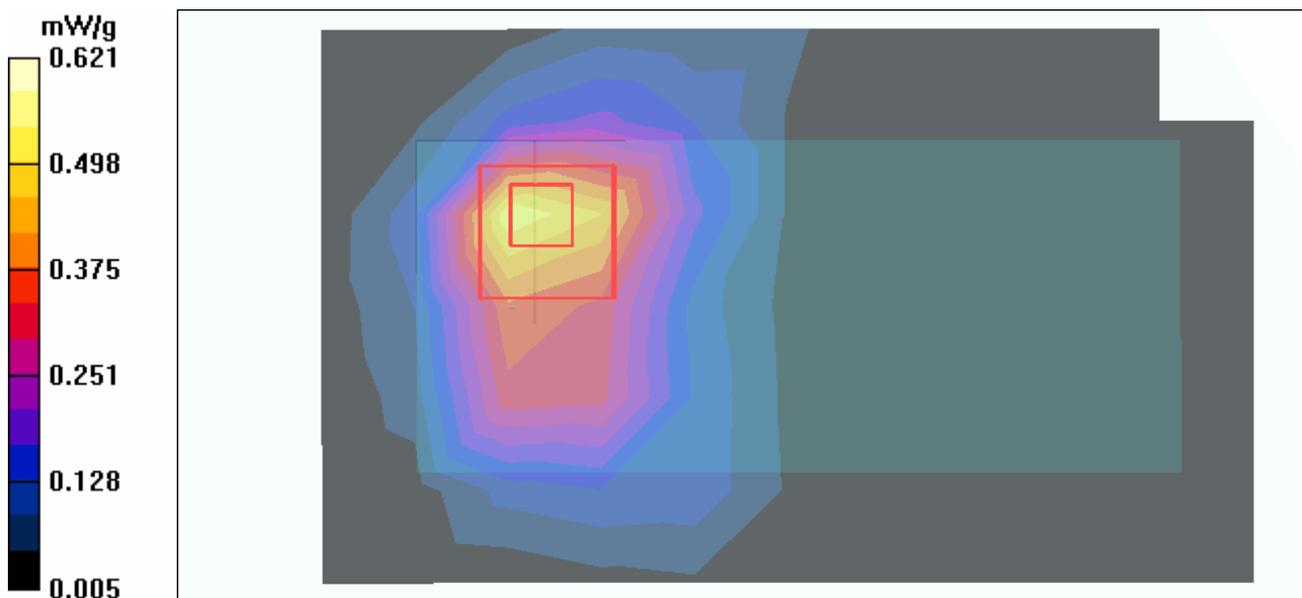Maximum value of SAR (measured) = 0.534 mW/g

High Channel 11/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
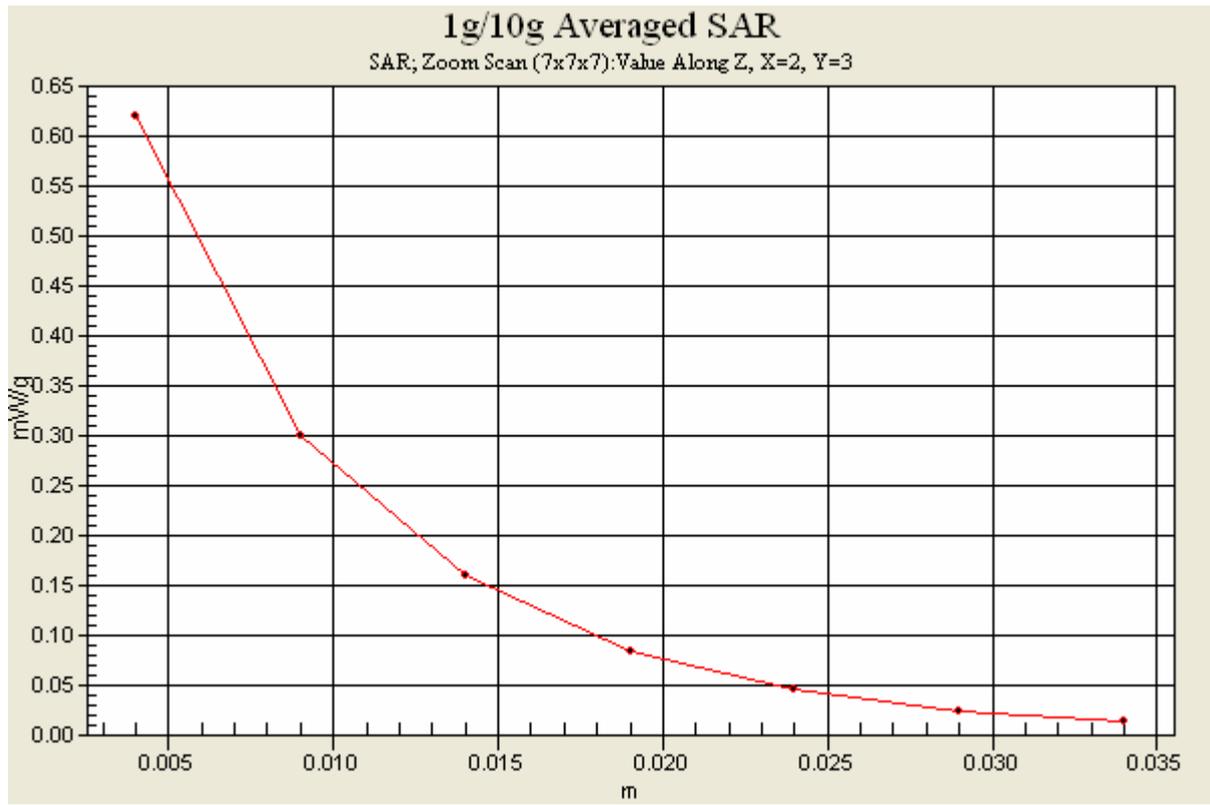Reference Value = 14.6 V/m
Peak SAR (extrapolated) = 1.28 W/kg
SAR(1 g) = 0.566 mW/g; SAR(10 g) = 0.273 mW/g
Maximum value of SAR (measured) = 0.621 mW/g

1g/10g Averaged SAR
SAR; Zoom Scan (7x7x7):Value Along Z, X=2, Y=3

Test Laboratory: Advance Data Technology

N800C-CH1&CH5-40MHz-EWC-Single-Mode 5

DUT: Wireless 802.11n CardBus PC Card ; Type: WN511T ; Test Frequency: 2422 MHz

Communication System: 802.11g ; Frequency: 2422 MHz ; Duty Cycle: 1:1 ; Modulation type: OFDM
Medium: MSL2450 Medium parameters used: f = 2422 MHz; σ = 1.98 mho/m; ε_r = 53.7; ρ = 1000 kg/m^3 ; Liquid level : 151 mm
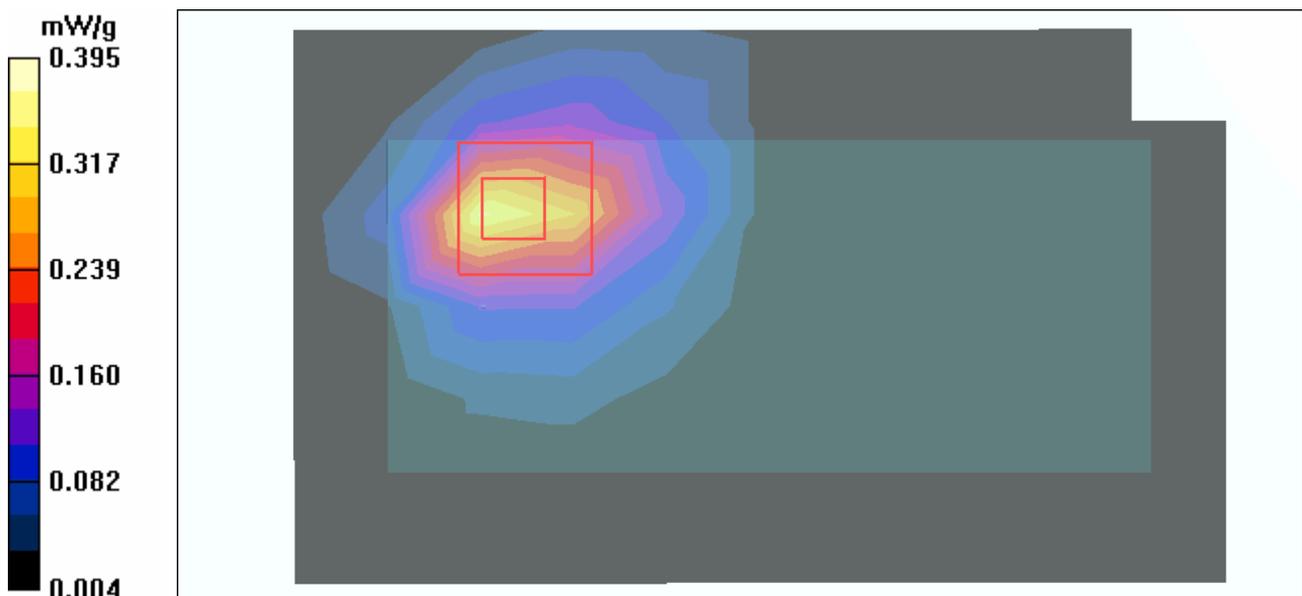Phantom section: Flat Section ; Separation distance : 10 mm (The bottom side of the EUT to the Phantom)
Antenna type : Printed Antenna ; Air temp. : 22.1 degrees ; Liquid temp. : 21.2 degrees

DASY4 Configuration:
- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2004/12/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510 ; Calibrated: 2005/8/17
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.6 Build 23 ; Postprocessing SW: SEMCAD, V1.8 Build 161

Low Channel 1 & Channel 5/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.350 mW/g

Low Channel 1 & Channel 5/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.13 V/m
Peak SAR (extrapolated) = 0.827 W/kg
SAR(1 g) = 0.352 mW/g; SAR(10 g) = 0.161 mW/g
Maximum value of SAR (measured) = 0.395 mW/g

Test Laboratory: Advance Data Technology

N800C-Ch04&Ch08-40MHz-EWC-Single-Mode 5

DUT: Wireless 802.11n CardBus PC Card ; Type: WN511T ; Test Frequency: 2437 MHz

Communication System: 802.11g ; Frequency: 2437 MHz ; Duty Cycle: 1:1 ; Modulation type: OFDM
Medium: MSL2450 Medium parameters used: f = 2437 MHz; σ = 2 mho/m; ε_r = 53.6; ρ = 1000 kg/m^3 ; Liquid level : 151 mm
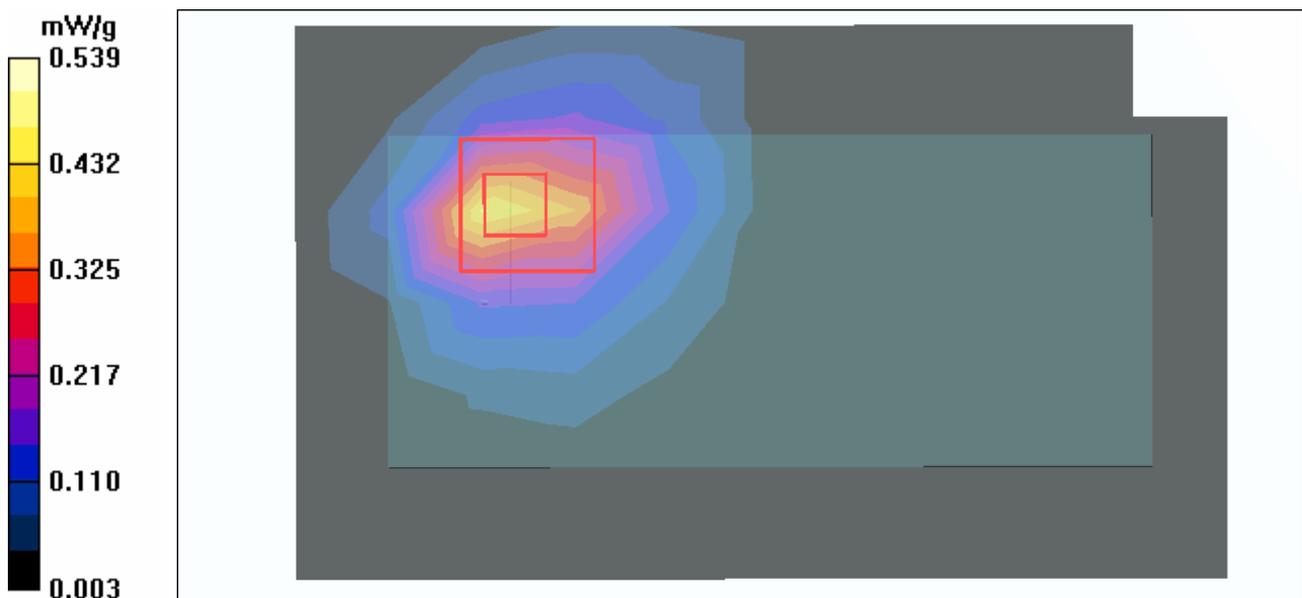Phantom section: Flat Section ; Separation distance : 10 mm (The bottom side of the EUT to the Phantom)
Antenna type : Printed Antenna ; Air temp. : 22.1 degrees ; Liquid temp. : 21.2 degrees

DASY4 Configuration:
- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2004/12/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510 ; Calibrated: 2005/8/17
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.6 Build 23 ; Postprocessing SW: SEMCAD, V1.8 Build 161

Mid Channel 4 & Channel 8/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.439 mW/g

Mid Channel 4 & Channel 8/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.24 V/m
Peak SAR (extrapolated) = 1.11 W/kg
SAR(1 g) = 0.478 mW/g; SAR(10 g) = 0.217 mW/g
Maximum value of SAR (measured) = 0.539 mW/g

Test Laboratory: Advance Data Technology

N800C-Ch07&Ch11-40MHz-EWC-Single-Mode 5

DUT: Wireless 802.11n CardBus PC Card ; Type: WN511T ; Test Frequency: 2452 MHz

Communication System: 802.11g ; Frequency: 2452 MHz ; Duty Cycle: 1:1 ; Modulation type: OFDM
Medium: MSL2450 Medium parameters used: f = 2452 MHz; σ = 2.02 mho/m; ε_r = 53.5; ρ = 1000 kg/m^3 ; Liquid level : 151 mm
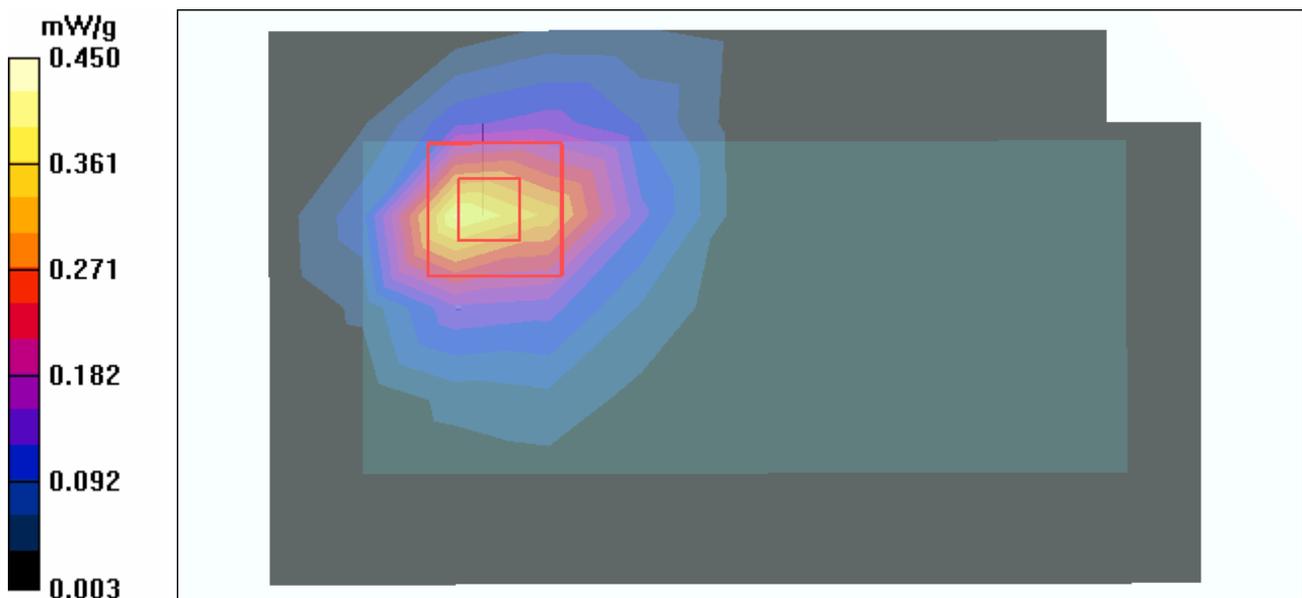Phantom section: Flat Section ; Separation distance : 10 mm (The bottom side of the EUT to the Phantom)
Antenna type : Printed Antenna ; Air temp. : 22.1 degrees ; Liquid temp. : 21.2 degrees

DASY4 Configuration:
- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2004/12/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510 ; Calibrated: 2005/8/17
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.6 Build 23 ; Postprocessing SW: SEMCAD, V1.8 Build 161

High Channel 7 & Channel 11/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.398 mW/g

High Channel 7 & Channel 11/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.20 V/m
Peak SAR (extrapolated) = 0.940 W/kg
SAR(1 g) = 0.400 mW/g; SAR(10 g) = 0.181 mW/g
Maximum value of SAR (measured) = 0.450 mW/g

Test Laboratory: Advance Data Technology

N800C-Ch01&Ch05-40MHz-EWC-Dual-Mode 6
DUT: Wireless 802.11n CardBus PC Card ; Type: WN511T ; Test Frequency: 2422 MHz

Communication System: 802.11g ; Frequency: 2422 MHz ; Duty Cycle: 1:1 ; Modulation type: OFDM

Medium: MSL2450 Medium parameters used: $f = 2422$ MHz; $\sigma = 1.98$ mho/m; $\varepsilon_r = 53.7$; $\rho = 1000$ kg/m^3 ; Liquid level : 151 mm

Phantom section: Flat Section ; Separation distance : 10 mm (The bottom side of the EUT to the Phantom)

Antenna type : Printed Antenna ; Air temp. : 22.1 degrees ; Liquid temp. : 21.2 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2004/12/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510 ; Calibrated: 2005/8/17
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.6 Build 23 ; Postprocessing SW: SEMCAD, V1.8 Build 161

Low Channel 1 & Channel 5/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.401 mW/g

Low Channel 1 & Channel 5/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.3 V/m

Peak SAR (extrapolated) = 0.879 W/kg

SAR(1 g) = 0.407 mW/g; SAR(10 g) = 0.203 mW/g

Maximum value of SAR (measured) = 0.438 mW/g

Low Channel 1 & Channel 5/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid:
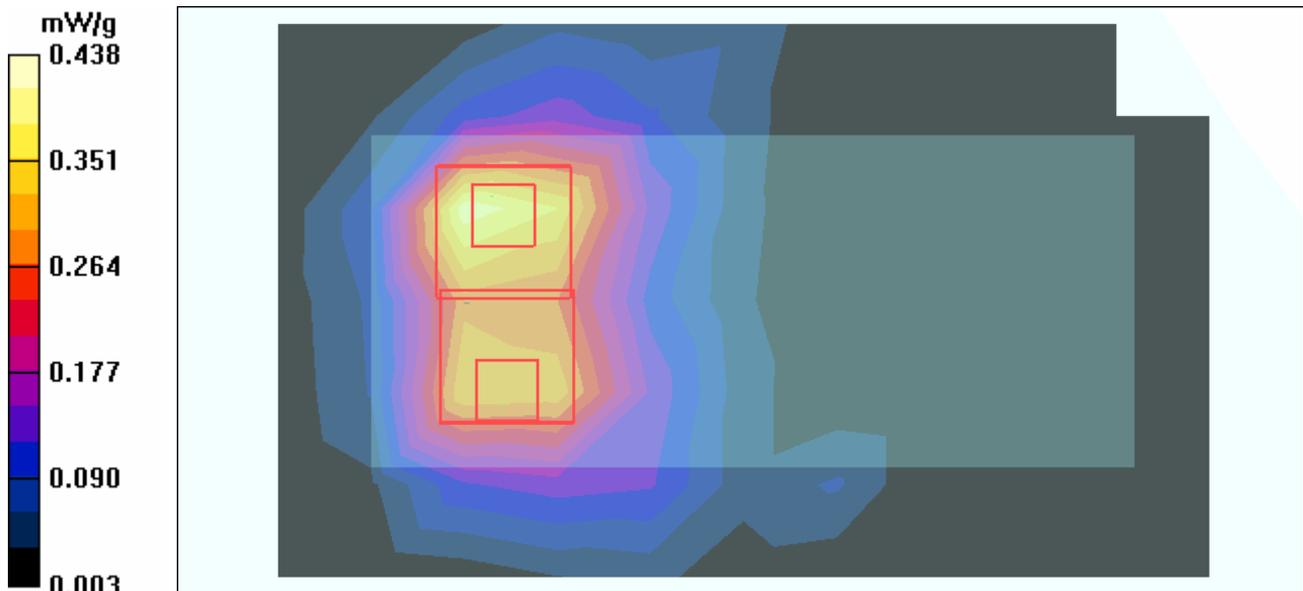
dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.3 V/m

Peak SAR (extrapolated) = 0.772 W/kg

SAR(1 g) = 0.345 mW/g; SAR(10 g) = 0.174 mW/g

Maximum value of SAR (measured) = 0.373 mW/g

Test Laboratory: Advance Data Technology

N800C-Ch04&Ch08-40MHz-EWC-Dual-Mode 6

DUT: Wireless 802.11n CardBus PC Card ; Type: WN511T ; Test Frequency: 2437 MHz

Communication System: 802.11g ; Frequency: 2437 MHz ; Duty Cycle: 1:1 ; Modulation type: OFDM

Medium: MSL2450 Medium parameters used: f = 2437 MHz; σ = 2 mho/m; ε_r = 53.6; ρ = 1000 kg/m^3 ; Liquid level : 151 mm

Phantom section: Flat Section ; Separation distance : 10 mm (The bottom side of the EUT to the Phantom)

Antenna type : Printed Antenna ; Air temp. : 22.1 degrees ; Liquid temp. : 21.2 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2004/12/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510 ; Calibrated: 2005/8/17
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.6 Build 23 ; Postprocessing SW: SEMCAD, V1.8 Build 161

Mid Channel 4 & Channel 8/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.491 mW/g

Mid Channel 4 & Channel 8/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.4 V/m

Peak SAR (extrapolated) = 1.17 W/kg

SAR(1 g) = 0.542 mW/g; SAR(10 g) = 0.270 mW/g

Maximum value of SAR (measured) = 0.589 mW/g

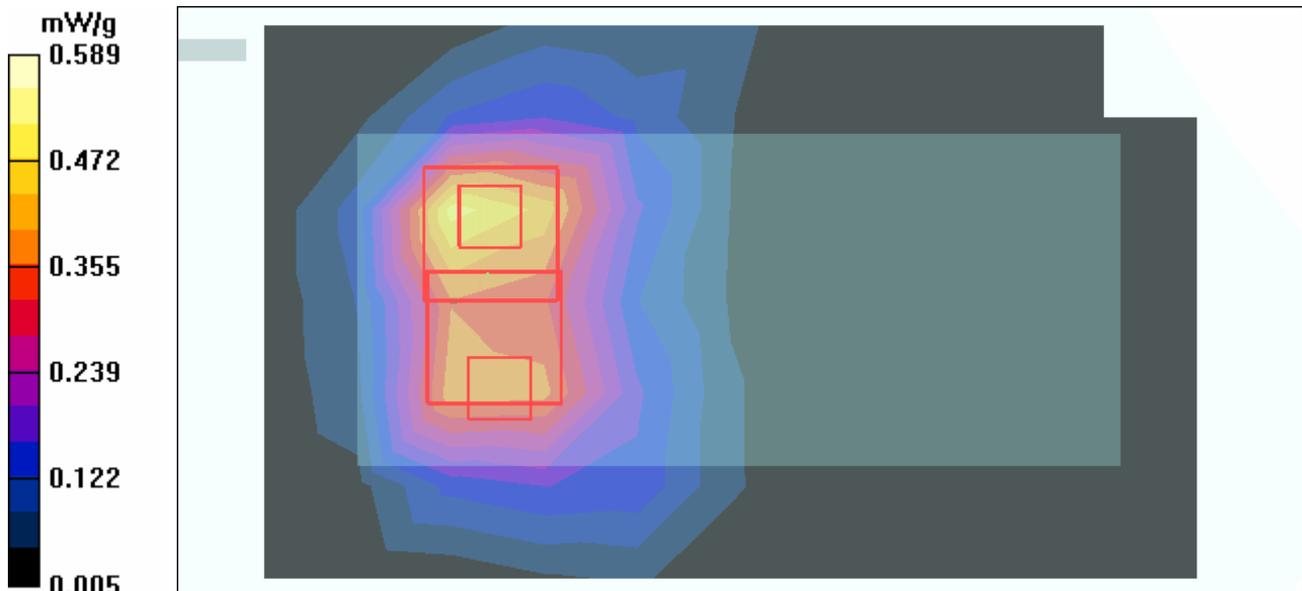**Mid Channel 4 & Channel 8/Zoom Scan (7x7x7) (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.4 V/m

Peak SAR (extrapolated) = 0.934 W/kg

SAR(1 g) = 0.430 mW/g; SAR(10 g) = 0.225 mW/g

Maximum value of SAR (measured) = 0.478 mW/g

Test Laboratory: Advance Data Technology

N800C-Ch07&Ch11-40MHz-EWC-Dual-Mode 6
DUT: Wireless 802.11n CardBus PC Card ; Type: WN511T ; Test Frequency: 2452 MHz

Communication System: 802.11g ; Frequency: 2452 MHz ; Duty Cycle: 1:1 ; Modulation type: OFDM

Medium: MSL2450 Medium parameters used: f = 2452 MHz; σ = 2.02 mho/m; ε_r = 53.5; ρ = 1000 kg/m^3 ; Liquid level : 151 mm

Phantom section: Flat Section ; Separation distance : 10 mm (The bottom side of the EUT to the Phantom)

Antenna type : Printed Antenna ; Air temp. : 22.1 degrees ; Liquid temp. : 21.2 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2004/12/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510 ; Calibrated: 2005/8/17
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.6 Build 23 ; Postprocessing SW: SEMCAD, V1.8 Build 161

High Channel 7 & Channel 11/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.501 mW/g

High Channel 7 & Channel 11/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.4 V/m

Peak SAR (extrapolated) = 1.19 W/kg

SAR(1 g) = 0.553 mW/g; SAR(10 g) = 0.276 mW/g

Maximum value of SAR (measured) = 0.600 mW/g

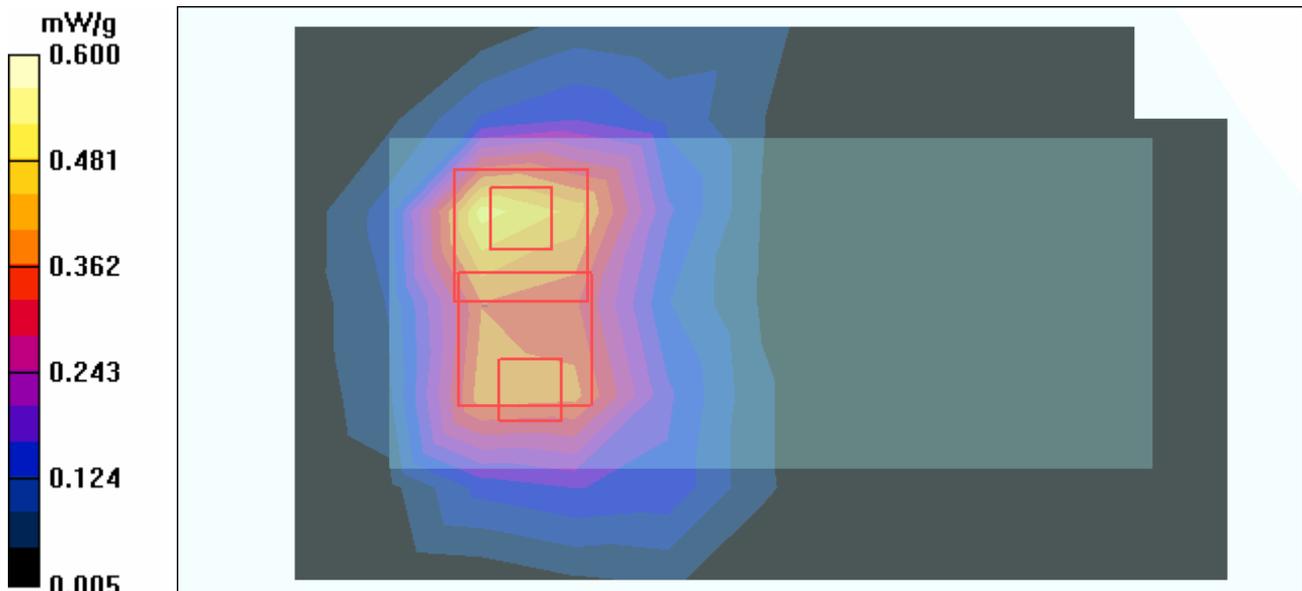**High Channel 7 & Channel 11/Zoom Scan (7x7x7) (7x7x7)/Cube 1:** Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.4 V/m

Peak SAR (extrapolated) = 0.952 W/kg

SAR(1 g) = 0.438 mW/g; SAR(10 g) = 0.230 mW/g

Maximum value of SAR (measured) = 0.487 mW/g

Test Laboratory: Advance Data Technology

System Validation Check-MSL 2450MHz

DUT: Dipole 2450 MHz ; Type: D2450V2 ; Serial: 716 ; 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 = 2.02 mho/m; ε_r = 53.5; 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. : 22.1 degrees ; Liquid temp. : 21.2 degrees

DASY4 Configuration:
- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2004/12/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2005/8/17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 161

d=10mm, Pin=250mW/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 14.3 mW/g

d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 88.9 V/m; Power Drift = -0.030 dB
Peak SAR (extrapolated) = 30.2 W/kg
SAR(1 g) = 13.3 mW/g; SAR(10 g) = 6.03 mW/g
Maximum value of SAR (measured) = 14.7 mW/g