

APPENDIX A: TEST DATA
Liquid Level Photo

MSL 2450MHz D=152mm



Test Laboratory: Advance Data Technology

N800C-11b-Ch01-Mode1

DUT: RangeMax Next Wireless 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; $\sigma = 1.87$ mho/m; $\epsilon_r = 51.4$; $\rho = 1000$ kg/m³ ; Liquid level : 152 mm

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

Antenna type : Printed Antenna ; Air temp. : 20.9 degrees ; Liquid temp. : 20.0 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) = 0.404 mW/g

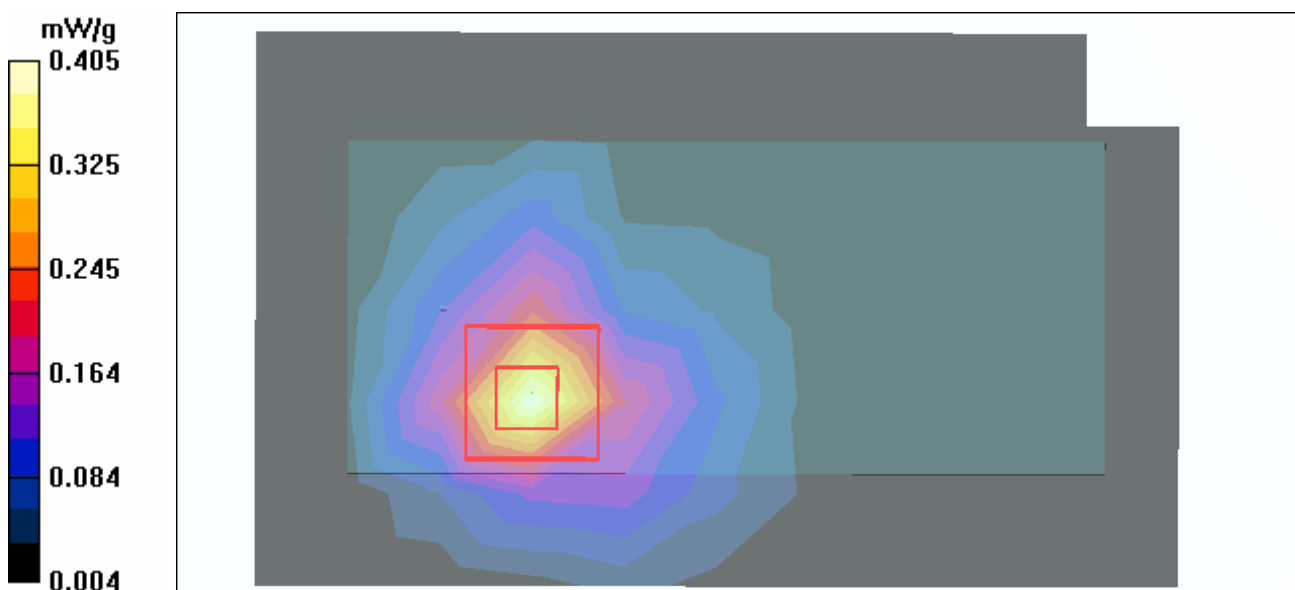
Low Channel 1/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.06 V/m

Peak SAR (extrapolated) = 0.852 W/kg

SAR(1 g) = 0.364 mW/g; SAR(10 g) = 0.168 mW/g

Maximum value of SAR (measured) = 0.405 mW/g



Test Laboratory: Advance Data Technology

N800C-11b-Ch06-Mode1

DUT: RangeMax Next Wireless 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; $\sigma = 1.9$ mho/m; $\epsilon_r = 51.3$; $\rho = 1000$ kg/m³ ; Liquid level : 152 mm

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

Antenna type : Printed Antenna ; Air temp. : 20.9 degrees ; Liquid temp. : 20.0 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) = 0.407 mW/g

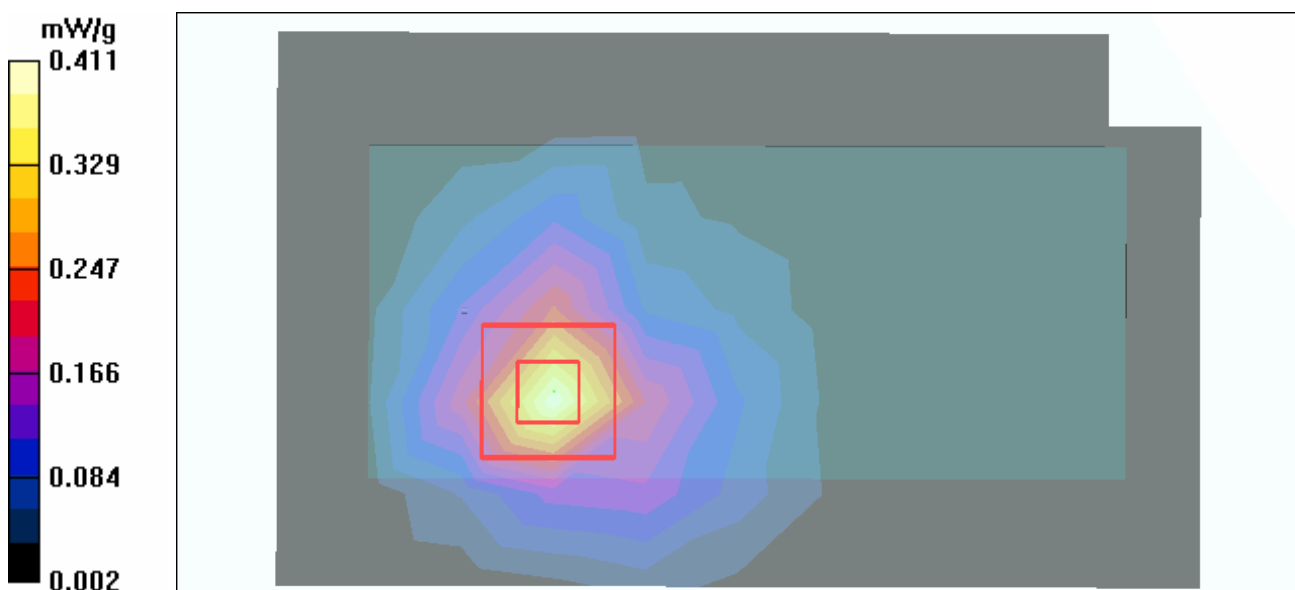
Mid Channel 6/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.37 V/m

Peak SAR (extrapolated) = 0.880 W/kg

SAR(1 g) = 0.371 mW/g; SAR(10 g) = 0.172 mW/g

Maximum value of SAR (measured) = 0.411 mW/g



Test Laboratory: Advance Data Technology

N800C-11b-Ch11-Mode1

DUT: RangeMax Next Wireless 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; $\sigma = 1.93$ mho/m; $\epsilon_r = 51.2$; $\rho = 1000$ kg/m³ ; Liquid level : 152 mm

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

Antenna type : Printed Antenna ; Air temp. : 20.9 degrees ; Liquid temp. : 20.0 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) = 0.412 mW/g

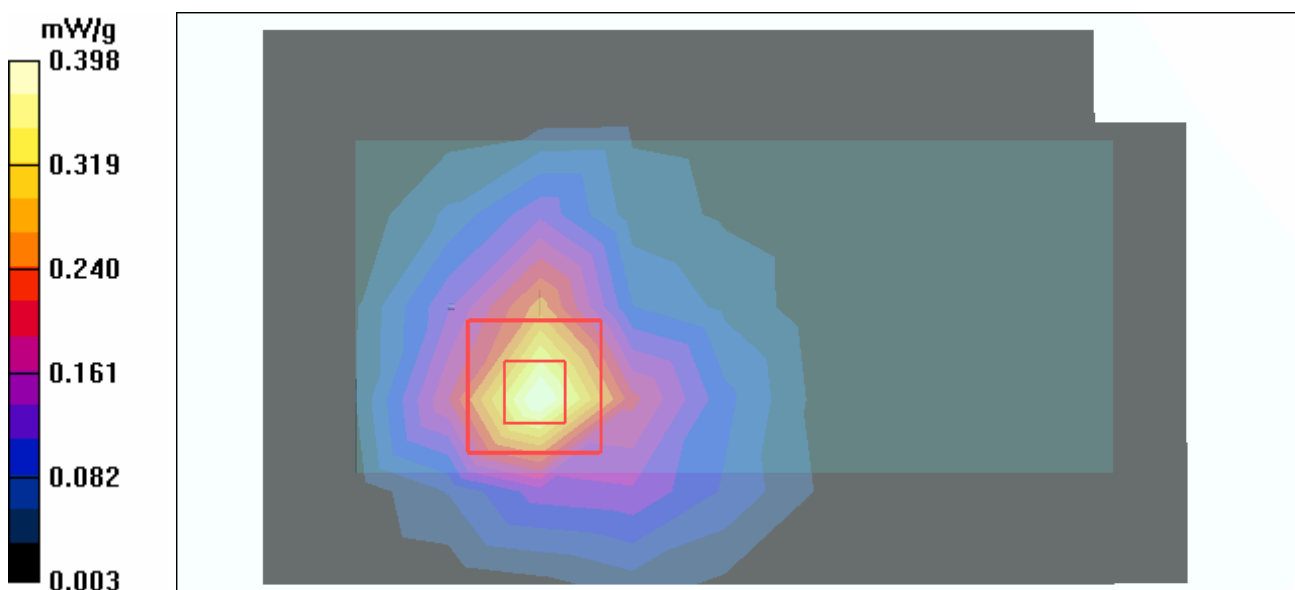
High Channel 11/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.92 V/m

Peak SAR (extrapolated) = 0.884 W/kg

SAR(1 g) = 0.371 mW/g; SAR(10 g) = 0.174 mW/g

Maximum value of SAR (measured) = 0.398 mW/g



Test Laboratory: Advance Data Technology

N800C-11g-Ch06-Mode2

DUT: RangeMax Next Wireless 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; $\sigma = 1.9$ mho/m; $\epsilon_r = 51.3$; $\rho = 1000$

kg/m³ ; Liquid level : 152 mm

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

Antenna type : Printed Antenna ; Air temp. : 20.9 degrees ; Liquid temp. : 20.0 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) = 0.305 mW/g

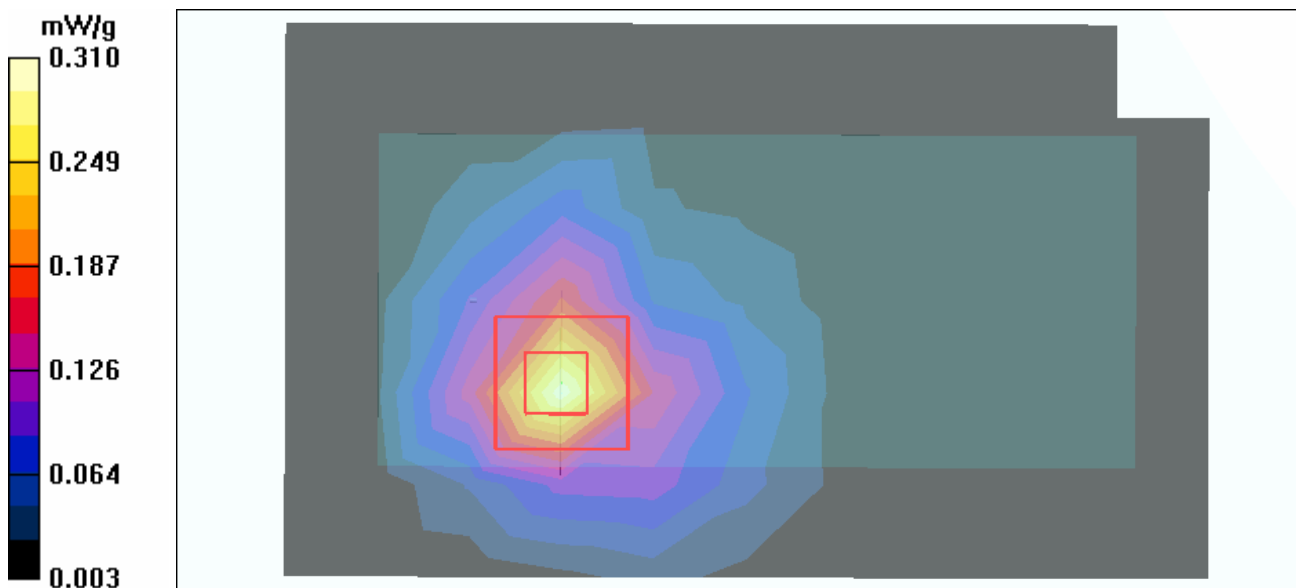
Mid Channel 6/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.14 V/m

Peak SAR (extrapolated) = 0.658 W/kg

SAR(1 g) = 0.279 mW/g; SAR(10 g) = 0.129 mW/g

Maximum value of SAR (measured) = 0.310 mW/g



Test Laboratory: Advance Data Technology

N800C-Ch01-20MHz-EWC-Single Tx(MCS0)-Mode3

DUT: RangeMax Next Wireless 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; $\sigma = 1.87$ mho/m; $\epsilon_r = 51.4$; $\rho = 1000$ kg/m³ ; Liquid level : 152 mm

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

Antenna type : Printed Antenna ; Air temp. : 20.9 degrees ; Liquid temp. : 20.0 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) = 0.264 mW/g

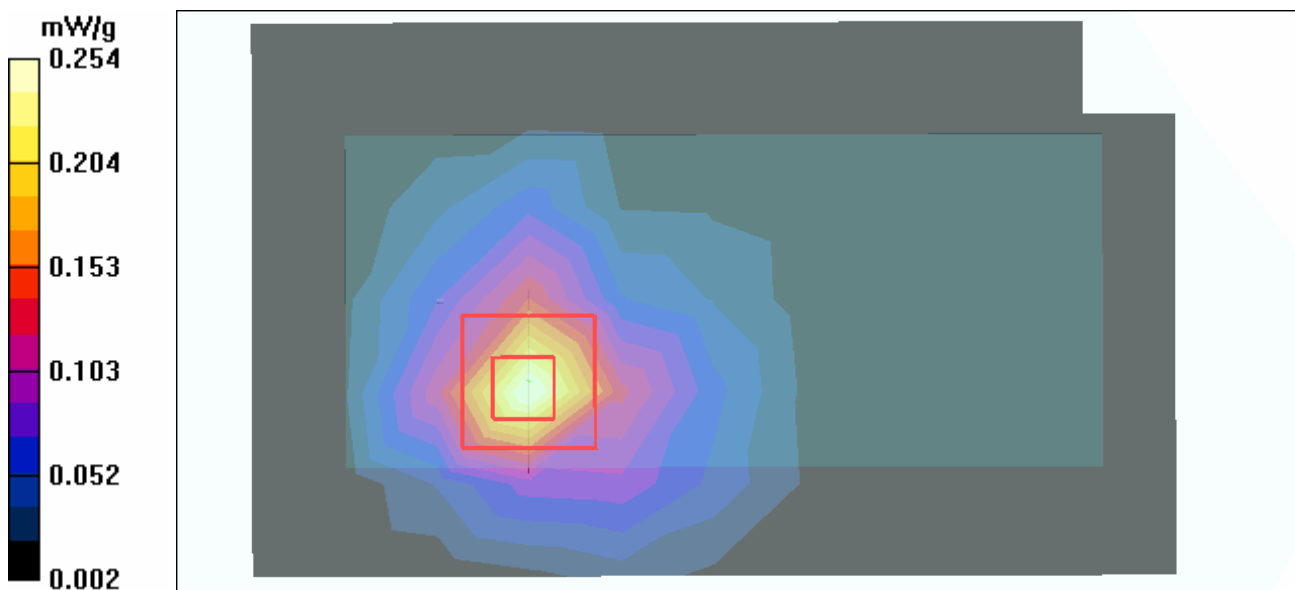
Low Channel 1/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.49 V/m

Peak SAR (extrapolated) = 0.521 W/kg

SAR(1 g) = 0.230 mW/g; SAR(10 g) = 0.108 mW/g

Maximum value of SAR (measured) = 0.254 mW/g



Test Laboratory: Advance Data Technology

N800C-Ch06-20MHz-EWC-Single Tx(MCS0)-Mode3

DUT: RangeMax Next Wireless 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: $f = 2437 \text{ MHz}$; $\sigma = 1.9 \text{ mho/m}$; $\epsilon_r = 51.3$; $\rho = 1000 \text{ kg/m}^3$; Liquid level : 152 mm

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

Antenna type : Printed Antenna ; Air temp. : 20.9 degrees ; Liquid temp. : 20.0 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: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.363 mW/g

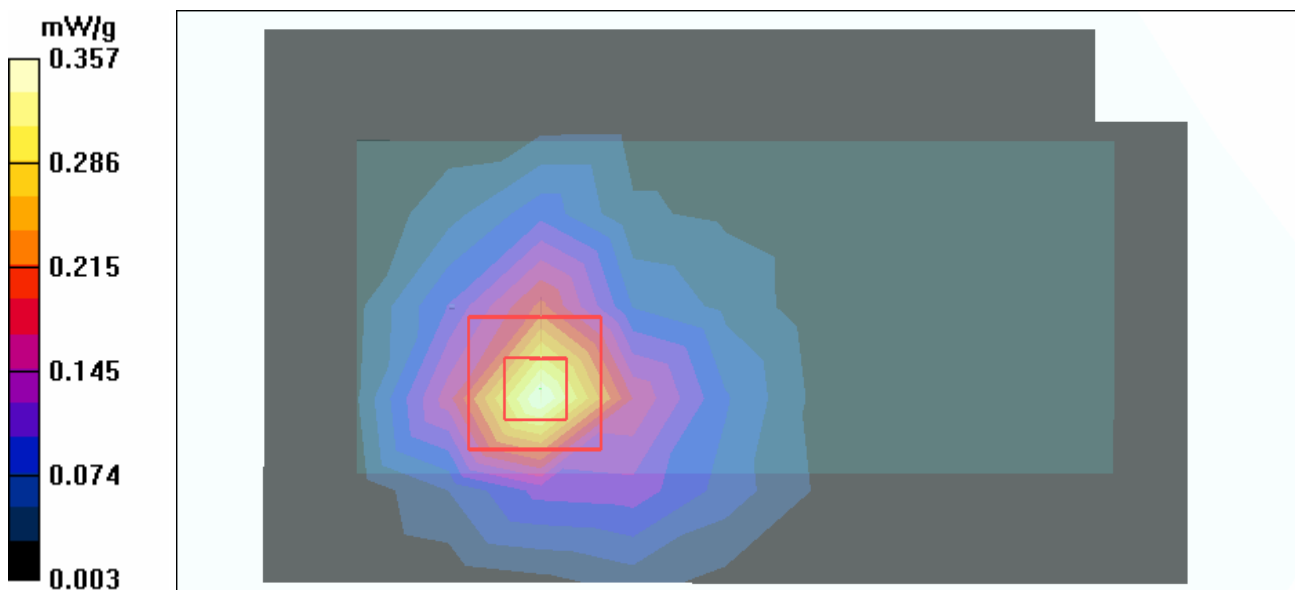
Mid Channel 6/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.73 V/m

Peak SAR (extrapolated) = 0.782 W/kg

SAR(1 g) = 0.324 mW/g; SAR(10 g) = 0.150 mW/g

Maximum value of SAR (measured) = 0.357 mW/g



Test Laboratory: Advance Data Technology

N800C-Ch11-20MHz-EWC-Single Tx(MCS0)-Mode3

DUT: RangeMax Next Wireless 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: $f = 2462 \text{ MHz}$; $\sigma = 1.93 \text{ mho/m}$; $\epsilon_r = 51.2$; $\rho = 1000 \text{ kg/m}^3$; Liquid level : 152 mm

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

Antenna type : Printed Antenna ; Air temp. : 20.9 degrees ; Liquid temp. : 20.0 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: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.310 mW/g

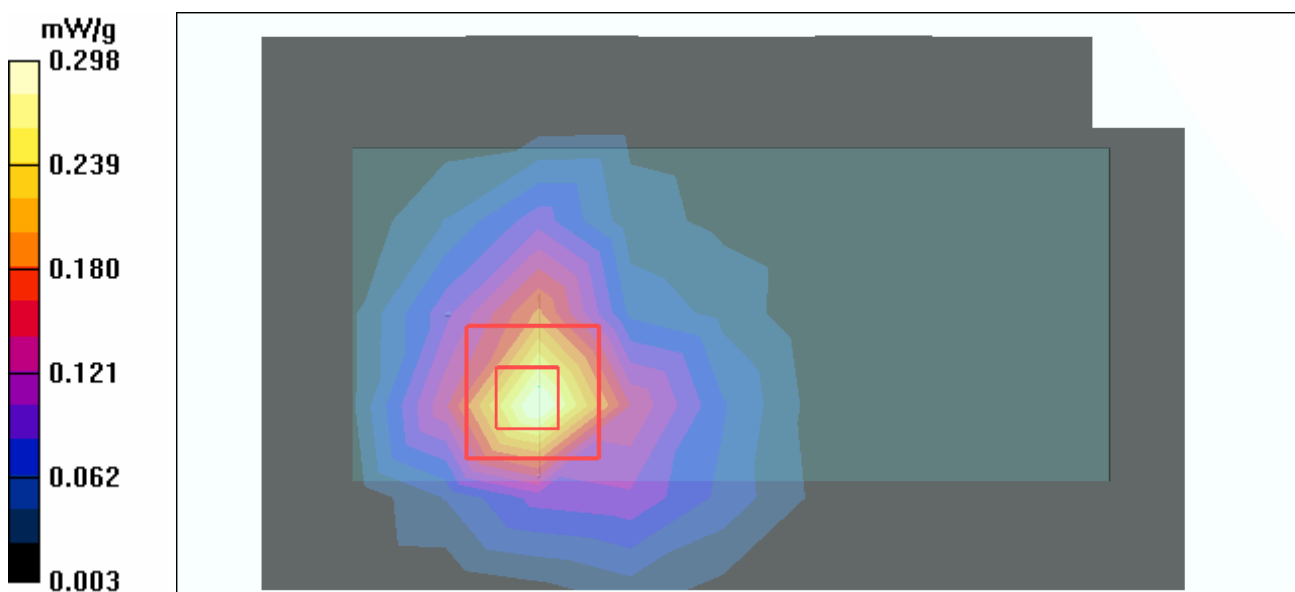
High Channel 11/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.59 V/m

Peak SAR (extrapolated) = 0.669 W/kg

SAR(1 g) = 0.276 mW/g; SAR(10 g) = 0.128 mW/g

Maximum value of SAR (measured) = 0.298 mW/g



Test Laboratory: Advance Data Technology

N800C-Ch01-20MHz-EWC-Dual Tx(MCS8)-Mode4

DUT: RangeMax Next Wireless 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: $f = 2412 \text{ MHz}$; $\sigma = 1.87 \text{ mho/m}$; $\epsilon_r = 51.4$; $\rho = 1000 \text{ kg/m}^3$; Liquid level : 152 mm

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

Antenna type : Printed Antenna ; Air temp. : 20.9 degrees ; Liquid temp. : 20.0 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: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.433 mW/g

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

Reference Value = 12.4 V/m

Peak SAR (extrapolated) = 0.851 W/kg

SAR(1 g) = 0.388 mW/g; SAR(10 g) = 0.198 mW/g

Maximum value of SAR (measured) = 0.417 mW/g

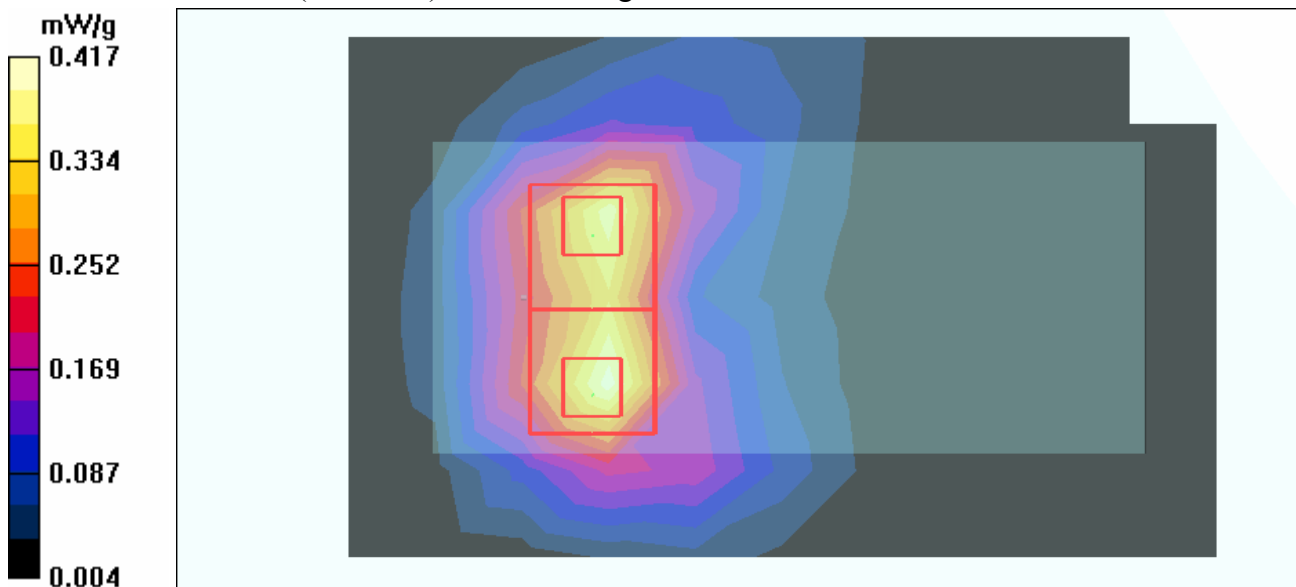
Low Channel 1/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.4 V/m

Peak SAR (extrapolated) = 0.798 W/kg

SAR(1 g) = 0.323 mW/g; SAR(10 g) = 0.165 mW/g

Maximum value of SAR (measured) = 0.361 mW/g



Test Laboratory: Advance Data Technology

N800C-Ch06-20MHz-EWC-Dual Tx(MCS8)-Mode4

DUT: RangeMax Next Wireless 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; $\sigma = 1.9$ mho/m; $\epsilon_r = 51.3$; $\rho = 1000$ kg/m³ ; Liquid level : 152 mm

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

Antenna type : Printed Antenna ; Air temp. : 20.9 degrees ; Liquid temp. : 20.0 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) = 0.484 mW/g

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

Reference Value = 12.5 V/m

Peak SAR (extrapolated) = 1.00 W/kg

SAR(1 g) = 0.449 mW/g; SAR(10 g) = 0.224 mW/g

Maximum value of SAR (measured) = 0.488 mW/g

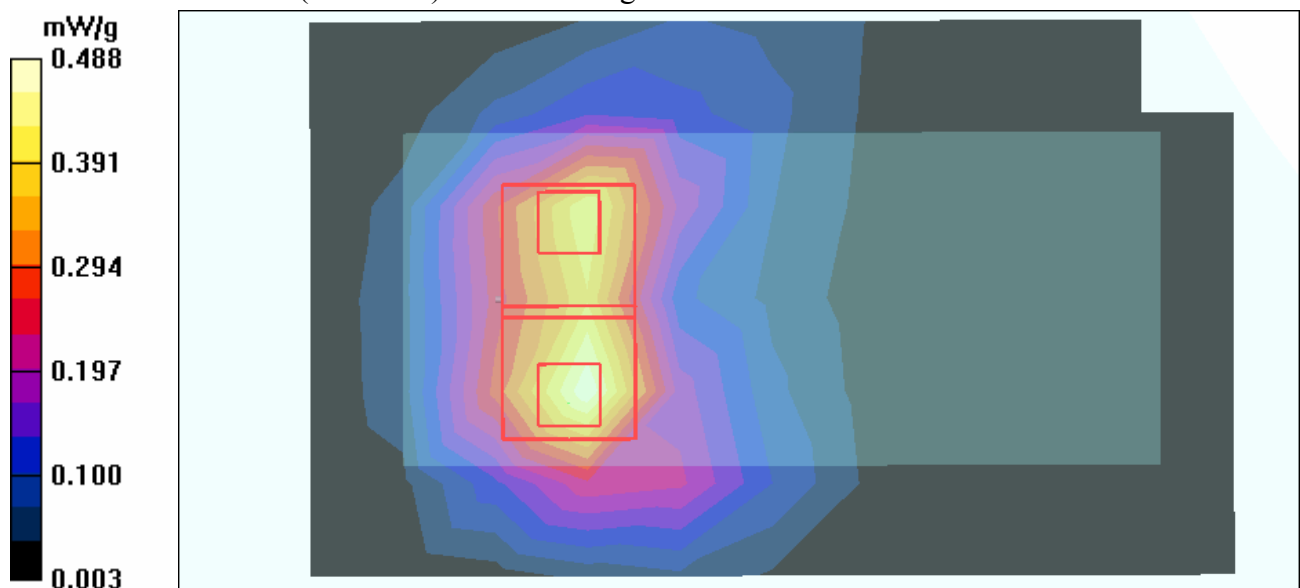
Mid Channel 6/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.5 V/m

Peak SAR (extrapolated) = 0.82 W/kg

SAR(1 g) = 0.405 mW/g; SAR(10 g) = 0.203 mW/g

Maximum value of SAR (measured) = 0.454 mW/g



Test Laboratory: Advance Data Technology

N800C-Ch11-20MHz-EWC-Dual Tx(MCS8)-Mode4

DUT: RangeMax Next Wireless 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: $f = 2462 \text{ MHz}$; $\sigma = 1.93 \text{ mho/m}$; $\epsilon_r = 51.2$; $\rho = 1000 \text{ kg/m}^3$; Liquid level : 152 mm

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

Antenna type : Printed Antenna ; Air temp. : 20.9 degrees ; Liquid temp. : 20.0 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: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.613 mW/g

High Channel 11/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.0 V/m

Peak SAR (extrapolated) = 1.30 W/kg

SAR(1 g) = 0.571 mW/g; SAR(10 g) = 0.282 mW/g

Maximum value of SAR (measured) = 0.619 mW/g

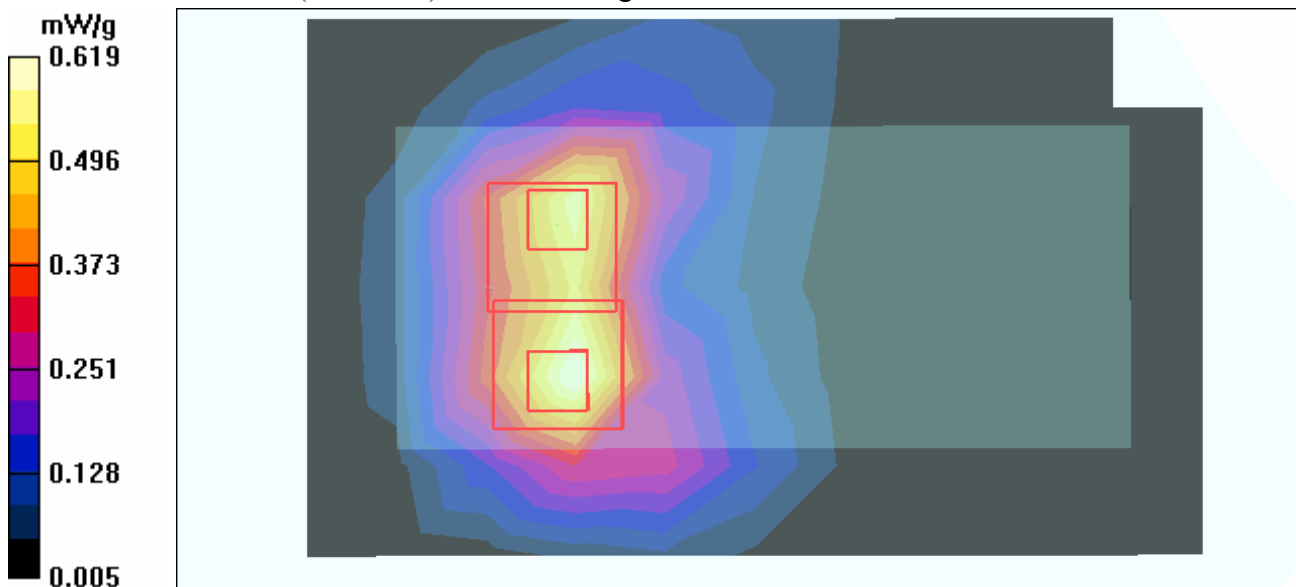
High Channel 11/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

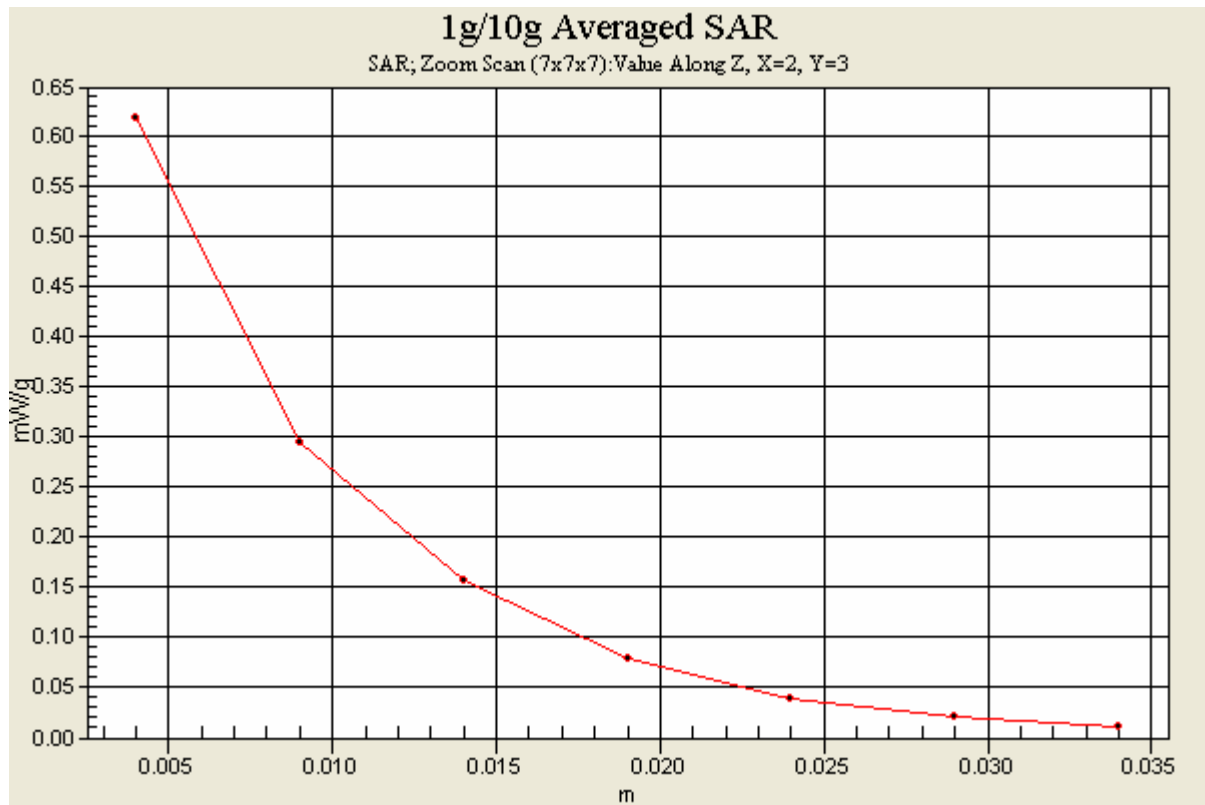
Reference Value = 14.0 V/m

Peak SAR (extrapolated) = 1.14 W/kg

SAR(1 g) = 0.536 mW/g; SAR(10 g) = 0.278 mW/g

Maximum value of SAR (measured) = 0.518 mW/g





Test Laboratory: Advance Data Technology

N800C-Ch01&Ch05-40MHz-EWC-Single Tx(MCS0)-Mode5

DUT: RangeMax Next Wireless 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; $\sigma = 1.88$ mho/m; $\epsilon_r = 51.3$; $\rho = 1000$ kg/m³ ; Liquid level : 152 mm

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

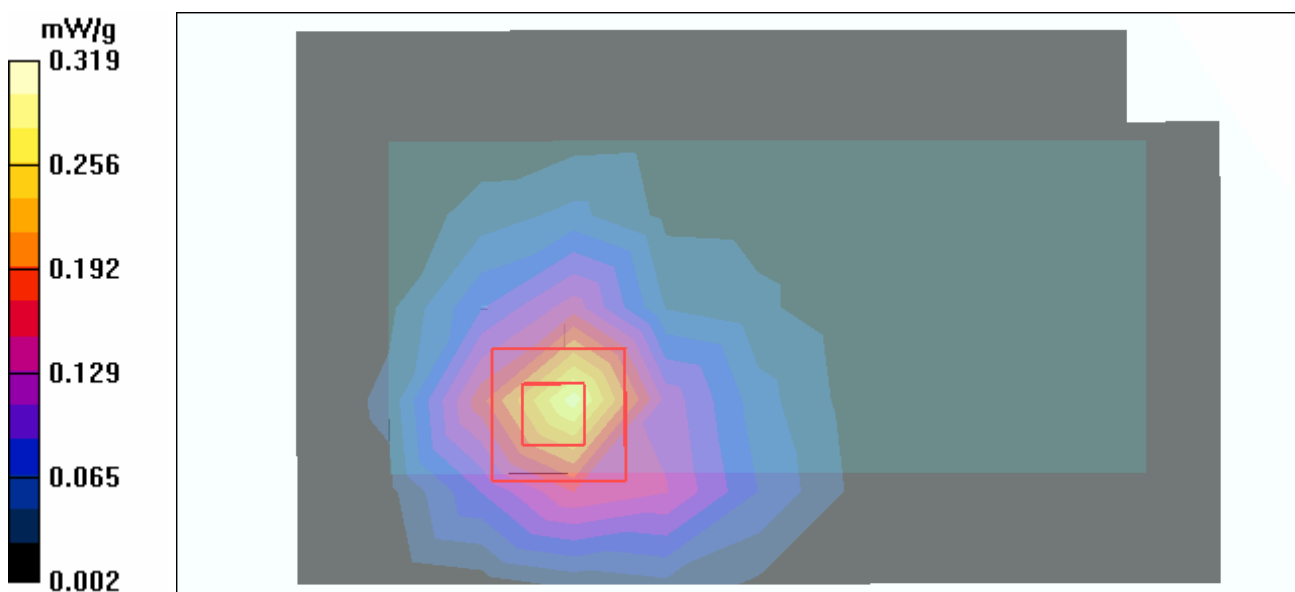
Antenna type : Printed Antenna ; Air temp. : 20.9 degrees ; Liquid temp. : 20.0 degrees

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) = 0.289 mW/g

Low Channel 1 & Channel 5/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 dx=5mm, dy=5mm, dz=5mm
 Reference Value = 6.95 V/m
 Peak SAR (extrapolated) = 0.708 W/kg
SAR(1 g) = 0.295 mW/g; SAR(10 g) = 0.135 mW/g
 Maximum value of SAR (measured) = 0.319 mW/g



Test Laboratory: Advance Data Technology

N800C-Ch04&Ch08-40MHz-EWC-Single Tx(MCS0)-Mode5

DUT: RangeMax Next Wireless 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; $\sigma = 1.9$ mho/m; $\epsilon_r = 51.3$; $\rho = 1000$

kg/m³ ; Liquid level : 152 mm

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

Antenna type : Printed Antenna ; Air temp. : 20.9 degrees ; Liquid temp. : 20.0 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) = 0.379 mW/g

Mid Channel 4 & Channel 8/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

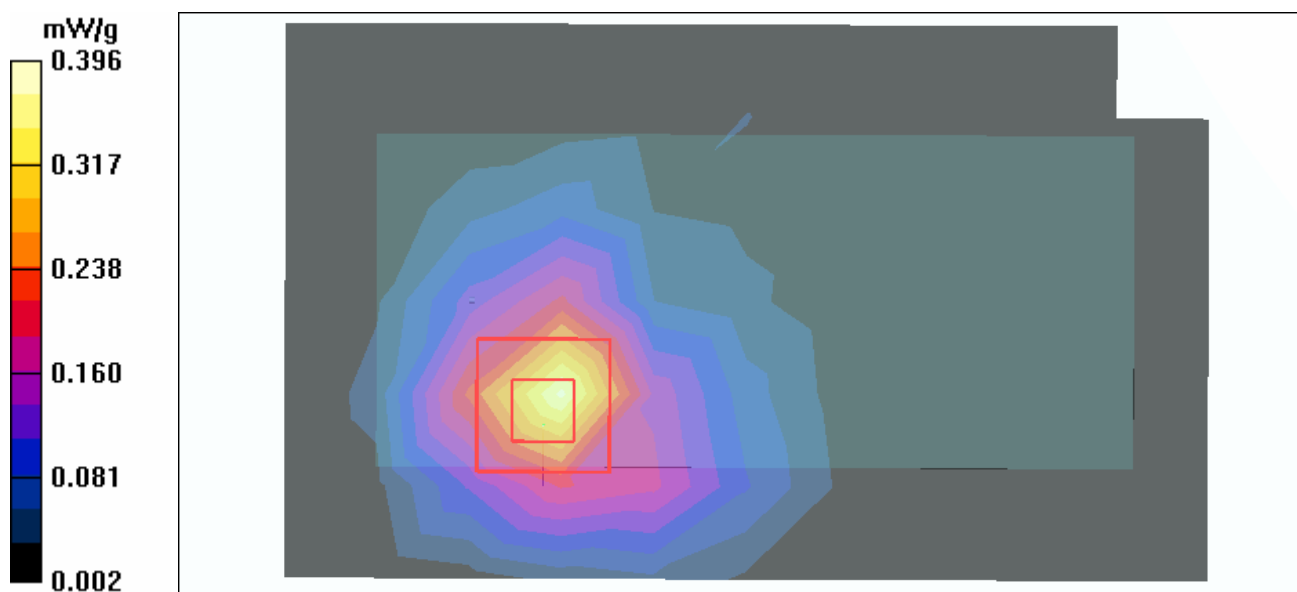
dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.60 V/m

Peak SAR (extrapolated) = 0.874 W/kg

SAR(1 g) = 0.365 mW/g; SAR(10 g) = 0.167 mW/g

Maximum value of SAR (measured) = 0.396 mW/g



Test Laboratory: Advance Data Technology

N800C-Ch07&Ch11-40MHz-EWC-Single Tx(MCS0)-Mode5

DUT: RangeMax Next Wireless 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: $f = 2452 \text{ MHz}$; $\sigma = 1.92 \text{ mho/m}$; $\epsilon_r = 51.2$; $\rho = 1000 \text{ kg/m}^3$; Liquid level : 152 mm

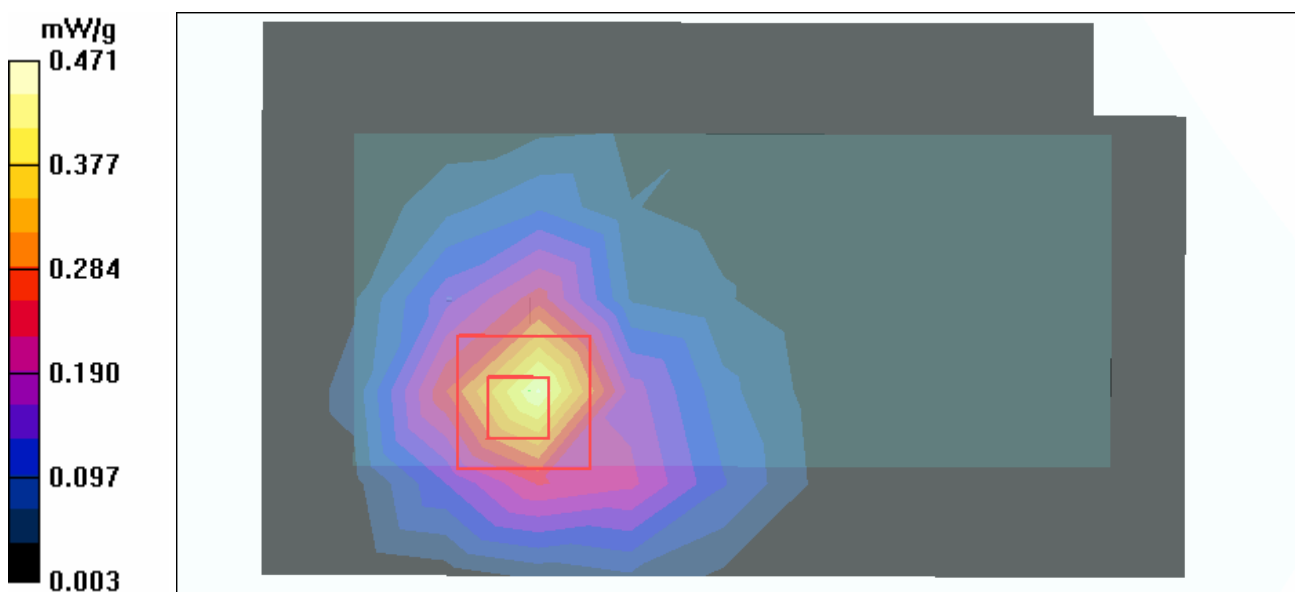
Phantom section: Flat Section ; Separation distance : 10 mm (The bottom side of the EUT to the Phantom)
 Antenna type : Printed Antenna ; Air temp. : 20.9 degrees ; Liquid temp. : 20.0 degrees

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: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 0.445 mW/g

High Channel 7 & Channel 11/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 9.33 V/m
 Peak SAR (extrapolated) = 1.09 W/kg
SAR(1 g) = 0.448 mW/g; SAR(10 g) = 0.205 mW/g
 Maximum value of SAR (measured) = 0.471 mW/g



Test Laboratory: Advance Data Technology

N800C-Ch01&Ch05-40MHz-EWC-Dual Tx(MCS8)-Mode6

DUT: RangeMax Next Wireless 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; $\sigma = 1.88$ mho/m; $\epsilon_r = 51.3$; $\rho = 1000$ kg/m³ ; Liquid level : 152 mm

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

Antenna type : Printed Antenna ; Air temp. : 20.9 degrees ; Liquid temp. : 20.0 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) = 0.482 mW/g

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

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

Reference Value = 12.7 V/m

Peak SAR (extrapolated) = 0.900 W/kg

SAR(1 g) = 0.413 mW/g; SAR(10 g) = 0.212 mW/g

Maximum value of SAR (measured) = 0.443 mW/g

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

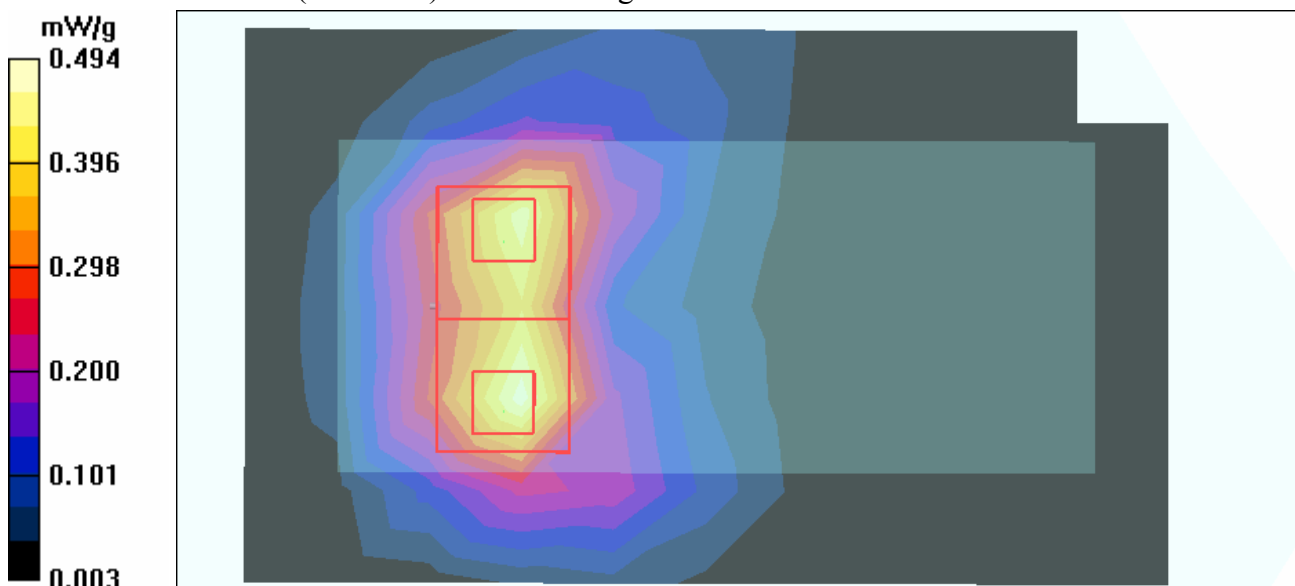
dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.7 V/m

Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.450 mW/g; SAR(10 g) = 0.219 mW/g

Maximum value of SAR (measured) = 0.494 mW/g



Test Laboratory: Advance Data Technology

N800C-Ch04&Ch08-40MHz-EWC-Dual Tx(MCS8)-Mode6

DUT: RangeMax Next Wireless 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; $\sigma = 1.9$ mho/m; $\epsilon_r = 51.3$; $\rho = 1000$ kg/m³ ; Liquid level : 152 mm

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

Antenna type : Printed Antenna ; Air temp. : 20.9 degrees ; Liquid temp. : 20.0 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) = 0.570 mW/g

Mid Channel 4 & Channel 8/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

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

Reference Value = 13.4 V/m

Peak SAR (extrapolated) = 1.19 W/kg

SAR(1 g) = 0.515 mW/g; SAR(10 g) = 0.251 mW/g

Maximum value of SAR (measured) = 0.562 mW/g

Mid Channel 4 & Channel 8/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid:

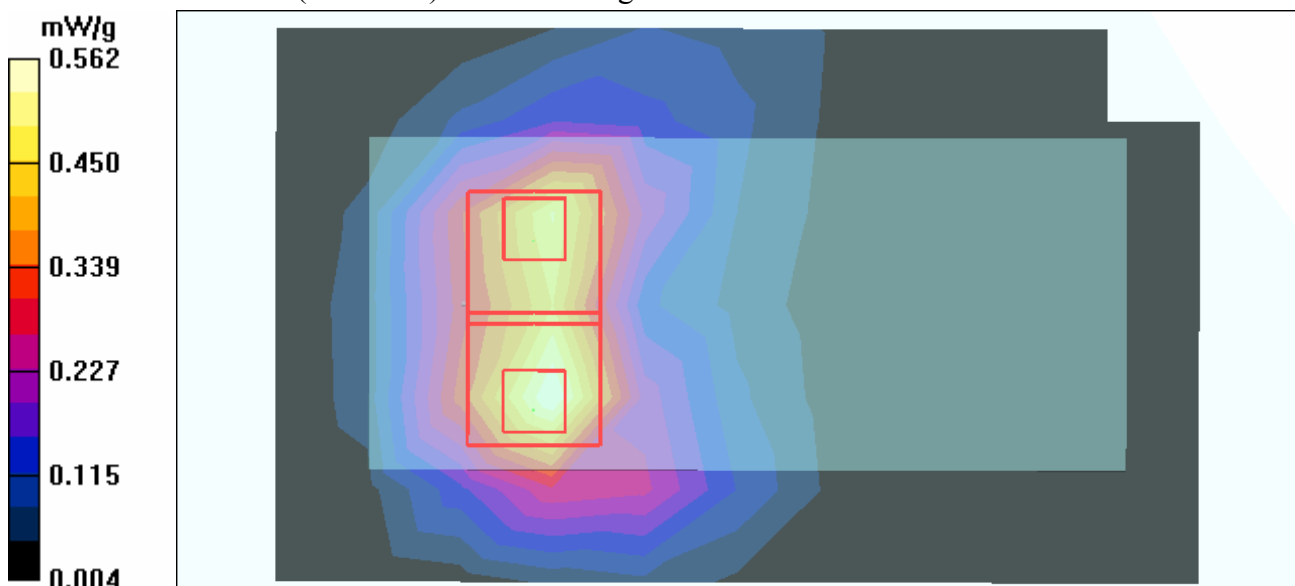
dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.4 V/m

Peak SAR (extrapolated) = 0.946 W/kg

SAR(1 g) = 0.438 mW/g; SAR(10 g) = 0.227 mW/g

Maximum value of SAR (measured) = 0.476 mW/g



Test Laboratory: Advance Data Technology

N800C-Ch07&Ch11-40MHz-EWC-Dual Tx(MCS8)-Mode6

DUT: RangeMax Next Wireless 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: $f = 2452 \text{ MHz}$; $\sigma = 1.92 \text{ mho/m}$; $\epsilon_r = 51.2$; $\rho = 1000 \text{ kg/m}^3$; Liquid level : 152 mm

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

Antenna type : Printed Antenna ; Air temp. : 20.9 degrees ; Liquid temp. : 20.0 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: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.579 mW/g

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

$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 13.6 V/m

Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.540 mW/g; SAR(10 g) = 0.263 mW/g

Maximum value of SAR (measured) = 0.590 mW/g

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

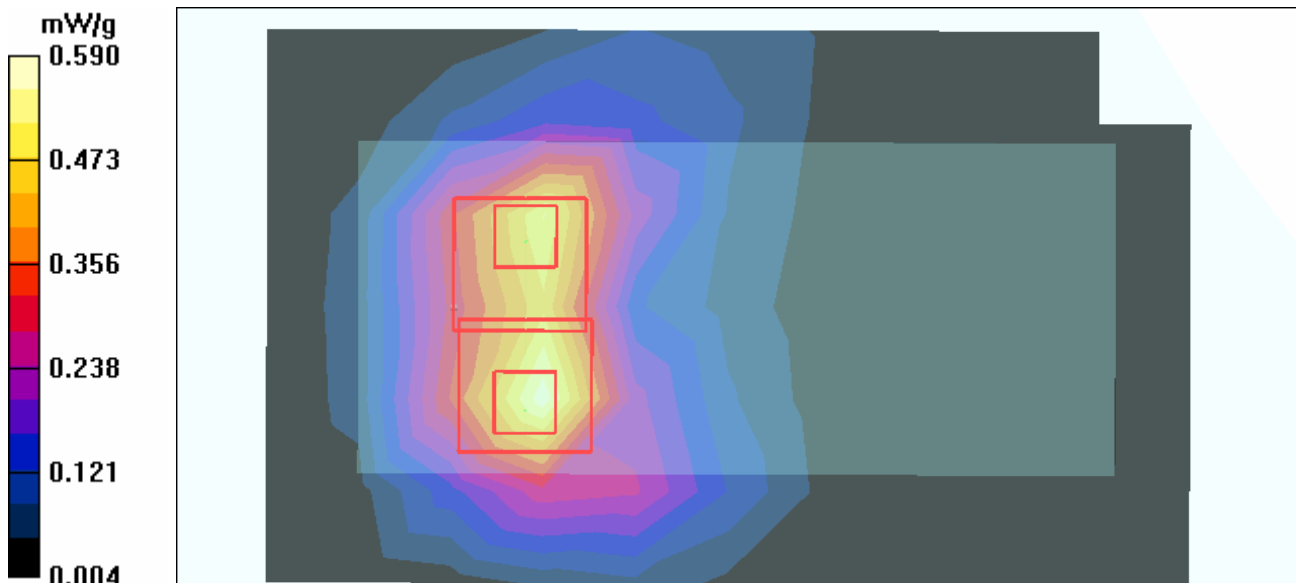
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 13.6 V/m

Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.519 mW/g; SAR(10 g) = 0.269 mW/g

Maximum value of SAR (measured) = 0.565 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; $\sigma = 1.92$ mho/m; $\epsilon_r = 51.2$; $\rho = 1000$ kg/m³ ; Liquid level : 152 mm
 Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of the dipole to the Phantom) Air temp. : 20.9 degrees ; Liquid temp. : 20.0 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) = 14.1 mW/g

d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 91.1 V/m; Power Drift = -0.042 dB

Peak SAR (extrapolated) = 27.7 W/kg

SAR(1 g) = 12.6 mW/g; SAR(10 g) = 5.81 mW/g

Maximum value of SAR (measured) = 14.2 mW/g

