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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>February 02– March 18, 2010</b>                                   | Test Report No<br><b>RTS-2337-1003-18</b> | FCC ID:<br><b>L6ARCY70UW</b> | IC ID<br><b>2503A-RCY70UW</b> |

## APPENDIX A: SAR DISTRIBUTION COMPARISON FOR ACCURACY VERIFICATION

|                                                                                  |                                                                                       |                                           |                              |                               |
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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>February 02– March 18, 2010</b>                                   | Test Report No<br><b>RTS-2337-1003-18</b> | FCC ID:<br><b>L6ARCY70UW</b> | IC ID<br><b>2503A-RCY70UW</b> |

Date/Time: 04/02/2010 6:44:33 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[DipoleValidation\\_835MHz\\_Amb\\_Tem\\_22.6\\_Liq\\_Tem\\_21.2\\_C\\_02\\_04\\_10.da4](#)

**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:446**

**Program Name: System Performance Check at 835 MHz**

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.868 \text{ mho/m}$ ;  $\epsilon_r = 40.4$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(6.08, 6.08, 6.08); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0:** Measurement

grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $111.9 \text{ V/m}$ ; Power Drift =  $-0.014 \text{ dB}$

Peak SAR (extrapolated) =  $13.8 \text{ W/kg}$

**SAR(1 g) =  $9.42 \text{ mW/g}$ ; SAR(10 g) =  $6.19 \text{ mW/g}$**

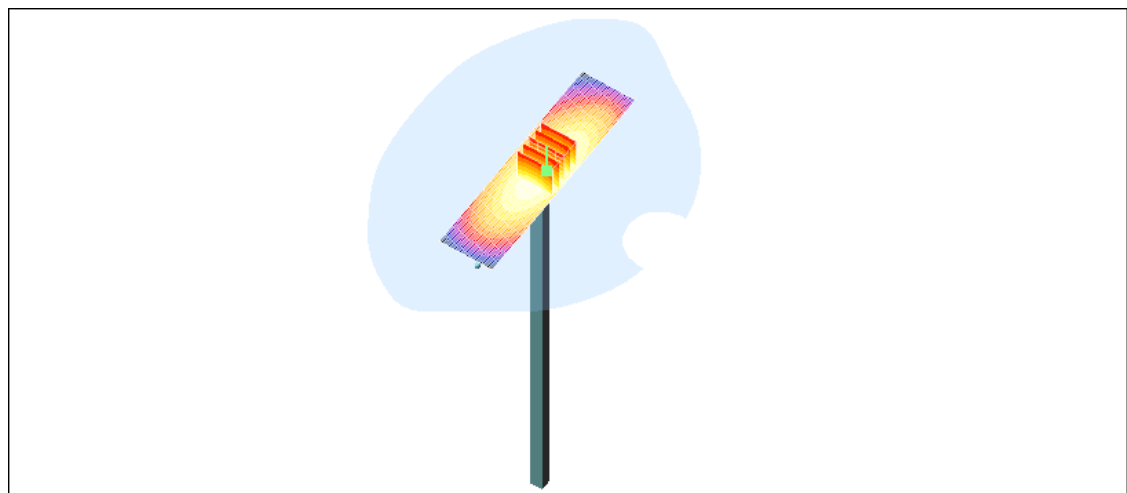
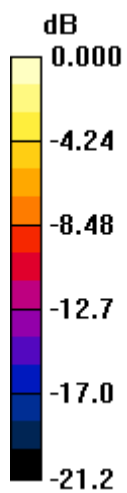
Maximum value of SAR (measured) =  $10.2 \text{ mW/g}$

**d=15mm, Pin=1000mW/Area Scan (31x121x1):** Measurement grid:  $dx=15\text{mm}$ ,

$dy=15\text{mm}$

Maximum value of SAR (interpolated) =  $10.2 \text{ mW/g}$

|                                                                                  |                                                                                       |                                           |                              |                               |
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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>February 02– March 18, 2010</b>                                   | Test Report No<br><b>RTS-2337-1003-18</b> | FCC ID:<br><b>L6ARCY70UW</b> | IC ID<br><b>2503A-RCY70UW</b> |



0 dB = 10.2mW/g

|                                                                                  |                                                                                       |                                           |                              |                               |
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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>February 02– March 18, 2010</b>                                   | Test Report No<br><b>RTS-2337-1003-18</b> | FCC ID:<br><b>L6ARCY70UW</b> | IC ID<br><b>2503A-RCY70UW</b> |

Date/Time: 08/02/2010 6:15:47 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[DipoleValidation\\_835MHz\\_Amb\\_Tem\\_22.2\\_Liq\\_Tem\\_21.3\\_C\\_02\\_08\\_10.da4](#)

**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:446**

**Program Name: System Performance Check at 835 MHz**

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.867 \text{ mho/m}$ ;  $\epsilon_r = 39.5$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(6.08, 6.08, 6.08); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0:** Measurement

grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $112.9 \text{ V/m}$ ; Power Drift =  $0.020 \text{ dB}$

Peak SAR (extrapolated) =  $13.9 \text{ W/kg}$

**SAR(1 g) =  $9.57 \text{ mW/g}$ ; SAR(10 g) =  $6.3 \text{ mW/g}$**

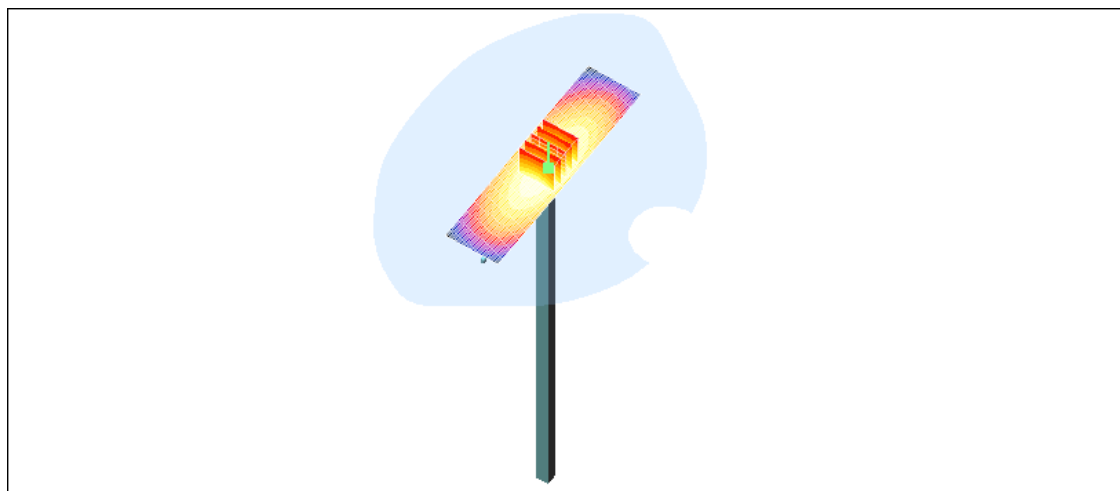
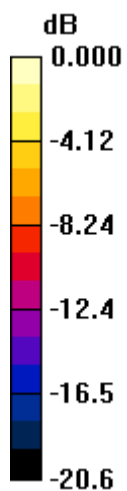
Maximum value of SAR (measured) =  $10.3 \text{ mW/g}$

**d=15mm, Pin=1000mW/Area Scan (31x121x1):** Measurement grid:  $dx=15\text{mm}$ ,

$dy=15\text{mm}$

Maximum value of SAR (interpolated) =  $10.3 \text{ mW/g}$

|                                                                                  |                                                                                       |                                           |                              |                               |
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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>February 02– March 18, 2010</b>                                   | Test Report No<br><b>RTS-2337-1003-18</b> | FCC ID:<br><b>L6ARCY70UW</b> | IC ID<br><b>2503A-RCY70UW</b> |



0 dB = 10.3mW/g

|                                                                                  |                                                                                       |                                                     |                                           |                              |
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|                                                                                  | Author Data<br><b>Andrew Becker</b>                                                   | Dates of Test<br><b>February 02– March 18, 2010</b> | Test Report No<br><b>RTS-2337-1003-18</b> | FCC ID:<br><b>L6ARCY70UW</b> |
|                                                                                  |                                                                                       | IC ID<br><b>2503A-RCY70UW</b>                       |                                           |                              |

Date/Time: 11/02/2010 7:03:04 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[DipoleValidation\\_1900MHz\\_Amb\\_Tem\\_23.0\\_Liq\\_Tem\\_21.6\\_C\\_02\\_11\\_10.da4](#)

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:545**

**Program Name: System Performance Check at 1900 MHz**

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1900 \text{ MHz}$ ;  $\sigma = 1.44 \text{ mho/m}$ ;  $\epsilon_r = 40.8$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(5.17, 5.17, 5.17); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**d=10mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0:** Measurement

grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $179.5 \text{ V/m}$ ; Power Drift =  $0.049 \text{ dB}$

Peak SAR (extrapolated) =  $67.8 \text{ W/kg}$

**SAR(1 g) =  $38.4 \text{ mW/g}$ ; SAR(10 g) =  $20.1 \text{ mW/g}$**

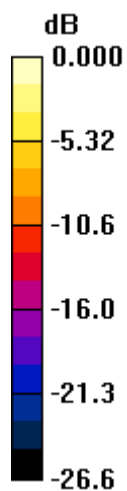
Maximum value of SAR (measured) =  $43.1 \text{ mW/g}$

**d=10mm, Pin=1000mW/Area Scan (31x61x1):** Measurement grid:  $dx=15\text{mm}$ ,

$dy=15\text{mm}$

Maximum value of SAR (interpolated) =  $44.8 \text{ mW/g}$

|                                                                                  |                                                                                       |                                           |                              |                               |
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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>February 02– March 18, 2010</b>                                   | Test Report No<br><b>RTS-2337-1003-18</b> | FCC ID:<br><b>L6ARCY70UW</b> | IC ID<br><b>2503A-RCY70UW</b> |



0 dB = 44.8mW/g

|                                                                                  |                                                                                       |                                           |                              |                               |
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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>February 02– March 18, 2010</b>                                   | Test Report No<br><b>RTS-2337-1003-18</b> | FCC ID:<br><b>L6ARCY70UW</b> | IC ID<br><b>2503A-RCY70UW</b> |

Date/Time: 3/16/2010 7:11:04 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[DipoleValidation 1900MHz Amb Tem 22.6 Liq Tem 21.2 C 03 16 10.da4](#)

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:545**

**Program Name: System Performance Check at 1900 MHz**

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1900 \text{ MHz}$ ;  $\sigma = 1.43 \text{ mho/m}$ ;  $\epsilon_r = 40.2$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(5.17, 5.17, 5.17); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**d=10mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0:** Measurement

grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $176.1 \text{ V/m}$ ; Power Drift =  $0.026 \text{ dB}$

Peak SAR (extrapolated) =  $64.9 \text{ W/kg}$

**SAR(1 g) =  $36.9 \text{ mW/g}$ ; SAR(10 g) =  $19.2 \text{ mW/g}$**

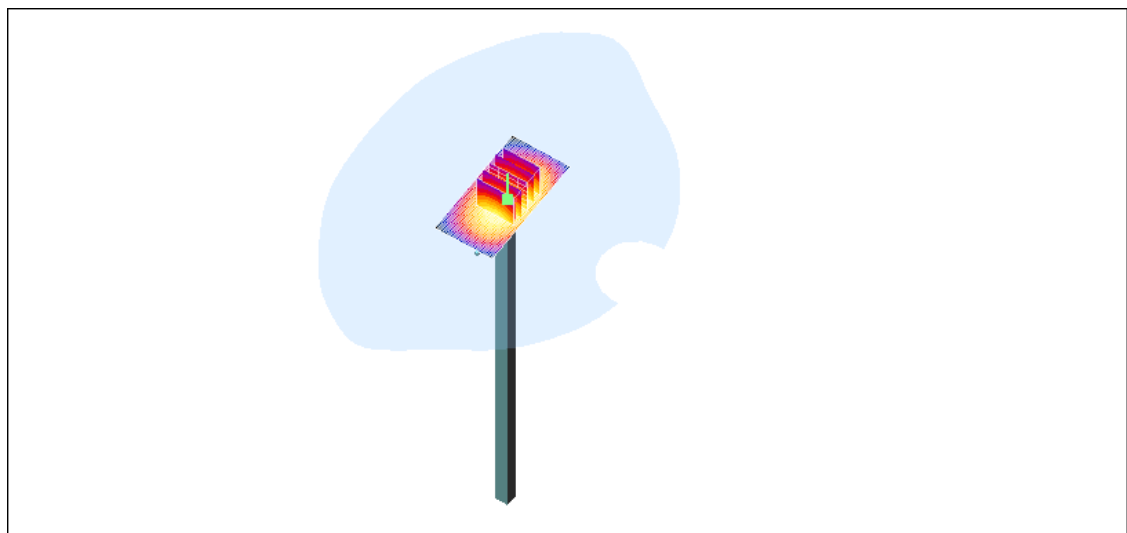
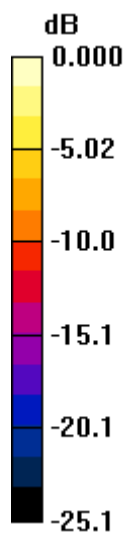
Maximum value of SAR (measured) =  $41.6 \text{ mW/g}$

**d=10mm, Pin=1000mW/Area Scan (31x61x1):** Measurement grid:  $dx=15\text{mm}$ ,

$dy=15\text{mm}$

Maximum value of SAR (interpolated) =  $42.2 \text{ mW/g}$

|                                                                                  |                                                                                       |                                           |                              |                               |
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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>February 02– March 18, 2010</b>                                   | Test Report No<br><b>RTS-2337-1003-18</b> | FCC ID:<br><b>L6ARCY70UW</b> | IC ID<br><b>2503A-RCY70UW</b> |



0 dB = 42.2mW/g

|                                                                                  |                                                                                       |                                           |                              |                               |
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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>February 02– March 18, 2010</b>                                   | Test Report No<br><b>RTS-2337-1003-18</b> | FCC ID:<br><b>L6ARCY70UW</b> | IC ID<br><b>2503A-RCY70UW</b> |

Date/Time: 2/2/2010 7:18:47 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[DipoleValidation\\_2450MHz\\_Amb\\_Tem\\_23.3\\_Liq\\_Tem\\_21.6\\_C\\_02\\_02\\_10.da4](#)

**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:747**

**Program Name: System Performance Check at 1900 MHz**

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2450 \text{ MHz}$ ;  $\sigma = 1.88 \text{ mho/m}$ ;  $\epsilon_r = 39.1$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.5, 4.5, 4.5); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/3/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**d=10mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0:** Measurement

grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $188.1 \text{ V/m}$ ; Power Drift =  $-0.011 \text{ dB}$

Peak SAR (extrapolated) =  $134.6 \text{ W/kg}$

**SAR(1 g) =  $57.8 \text{ mW/g}$ ; SAR(10 g) =  $26.2 \text{ mW/g}$**

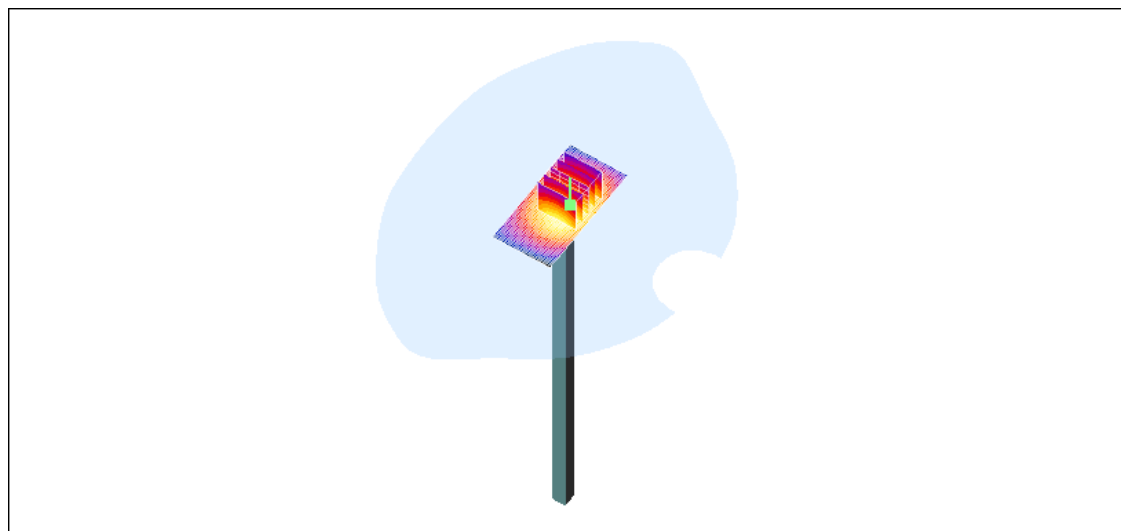
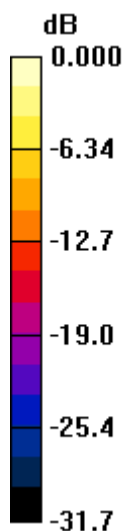
Maximum value of SAR (measured) =  $63.7 \text{ mW/g}$

**d=10mm, Pin=1000mW/Area Scan (31x61x1):** Measurement grid:  $dx=15\text{mm}$ ,

$dy=15\text{mm}$

Maximum value of SAR (interpolated) =  $68.4 \text{ mW/g}$

|                                                                                  |                                                                                       |                                           |                              |                               |
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0 dB = 68.4mW/g

|                                                                                  |                                                                                       |                                           |                              |                               |
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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>February 02– March 18, 2010</b>                                   | Test Report No<br><b>RTS-2337-1003-18</b> | FCC ID:<br><b>L6ARCY70UW</b> | IC ID<br><b>2503A-RCY70UW</b> |

Date/Time: 3/11/2010 3:45:15 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [DipoleValidation\\_2450MHz\\_Amb\\_Tem\\_23.0\\_Liq\\_Tem\\_22.5C.da4](#)

**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:747**

**Program Name: System Performance Check at 2450 MHz**

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2450 \text{ MHz}$ ;  $\sigma = 1.88 \text{ mho/m}$ ;  $\epsilon_r = 37.6$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.5, 4.5, 4.5); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**d=10mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 188.3 V/m; Power Drift = -0.022 dB

Peak SAR (extrapolated) = 126.3 W/kg

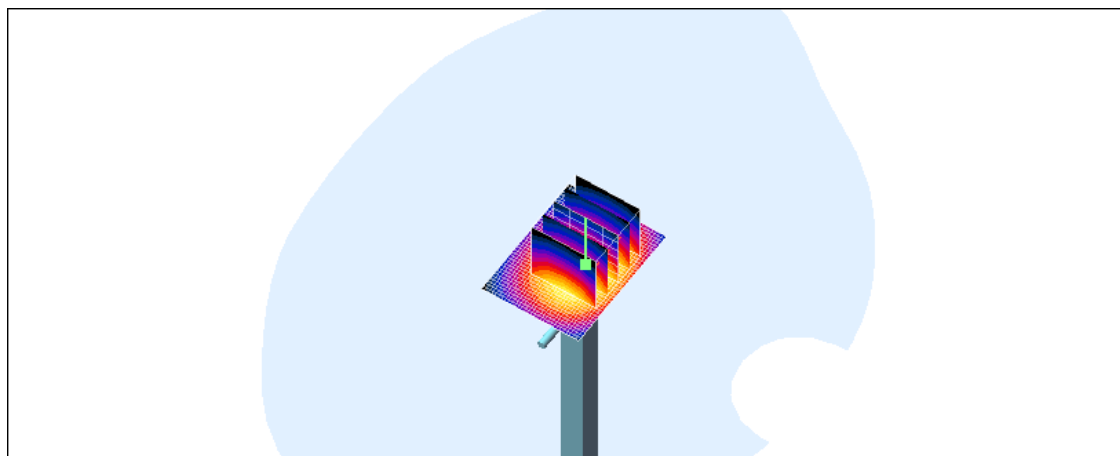
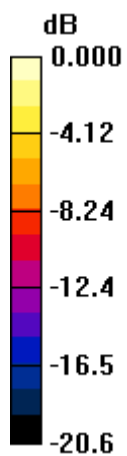
**SAR(1 g) = 55.9 mW/g; SAR(10 g) = 25.7 mW/g**

Maximum value of SAR (measured) = 62.0 mW/g

**d=10mm, Pin=1000mW/Area Scan (31x41x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 63.7 mW/g

|                                                                                  |                                                                                       |                                           |                              |                               |
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| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>February 02– March 18, 2010</b>                                   | Test Report No<br><b>RTS-2337-1003-18</b> | FCC ID:<br><b>L6ARCY70UW</b> | IC ID<br><b>2503A-RCY70UW</b> |



0 dB = 63.7mW/g