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|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------|------------------------------|
|  | Document<br><b>Appendix A for the BlackBerry® Smartphone Model RCV71UW<br/> SAR Report</b> |                                           | Page<br><b>1(11)</b>         |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>January 21 – March 3, 2010</b>                                         | Test Report No<br><b>RTS-2474-1002-39</b> | FCC ID:<br><b>L6ARCV70UW</b> |

## APPENDIX A: SAR DISTRIBUTION COMPARISON FOR ACCURACY VERIFICATION

|                                                                                  |                                                                                                 |                                           |                              |
|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------|------------------------------|
|  | Document<br><b>Appendix A for the BlackBerry® Smartphone Model RCV71UW</b><br><b>SAR Report</b> |                                           | Page<br><b>2(11)</b>         |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>January 21 – March 3, 2010</b>                                              | Test Report No<br><b>RTS-2474-1002-39</b> | FCC ID:<br><b>L6ARCV70UW</b> |

Date/Time: 1/21/2010 7:58:25 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[DipoleValidation\\_835MHz\\_Amb\\_Tem\\_24.1\\_Liq\\_Tem\\_21.7\\_C\\_01\\_21\\_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:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.874 \text{ mho/m}$ ;  $\epsilon_r = 42.8$ ;  $\rho = 1000 \text{ kg/m}^3$

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: 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=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 =  $110.7 \text{ V/m}$ ; Power Drift =  $-0.010 \text{ dB}$

Peak SAR (extrapolated) =  $13.5 \text{ W/kg}$

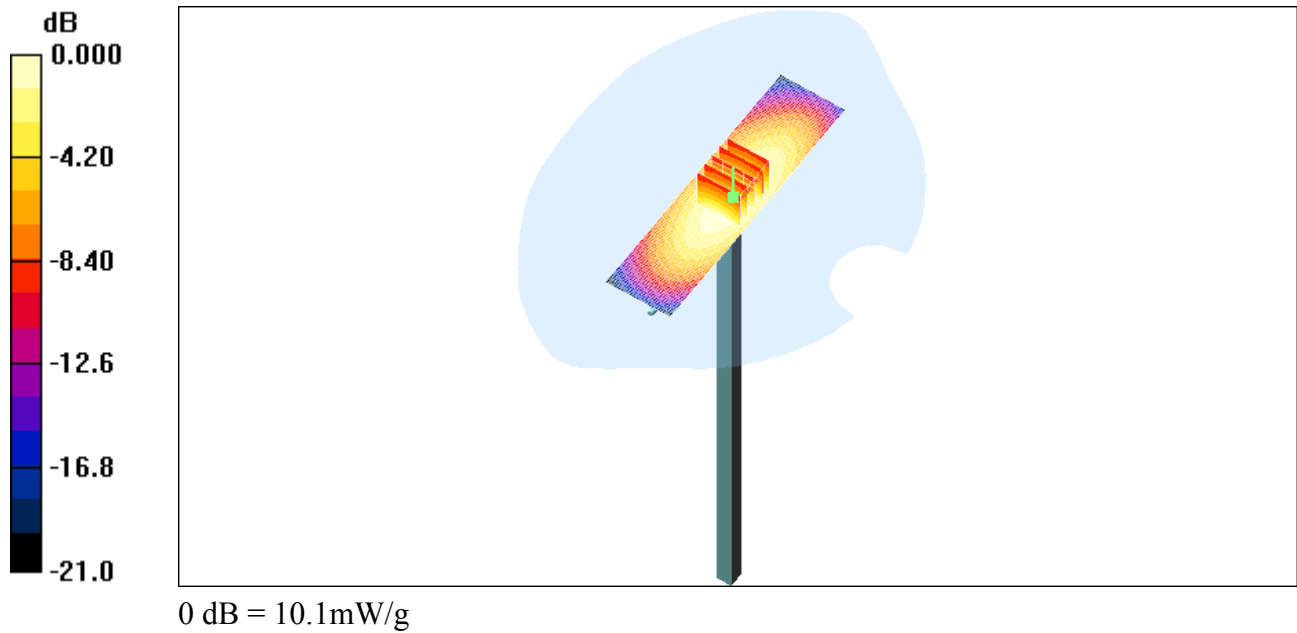
**SAR(1 g) = 9.34 mW/g; SAR(10 g) = 6.16 mW/g**

Maximum value of SAR (measured) =  $10.1 \text{ mW/g}$

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

$dy=15\text{mm}$

Maximum value of SAR (interpolated) =  $10.1 \text{ mW/g}$



|                                                                                  |                                                                                                 |                                           |                              |
|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------|------------------------------|
|  | Document<br><b>Appendix A for the BlackBerry® Smartphone Model RCV71UW</b><br><b>SAR Report</b> |                                           | Page<br><b>4(11)</b>         |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>January 21 – March 3, 2010</b>                                              | Test Report No<br><b>RTS-2474-1002-39</b> | FCC ID:<br><b>L6ARCV70UW</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:  $dx=15\text{mm}$ ,

$dy=15\text{mm}$

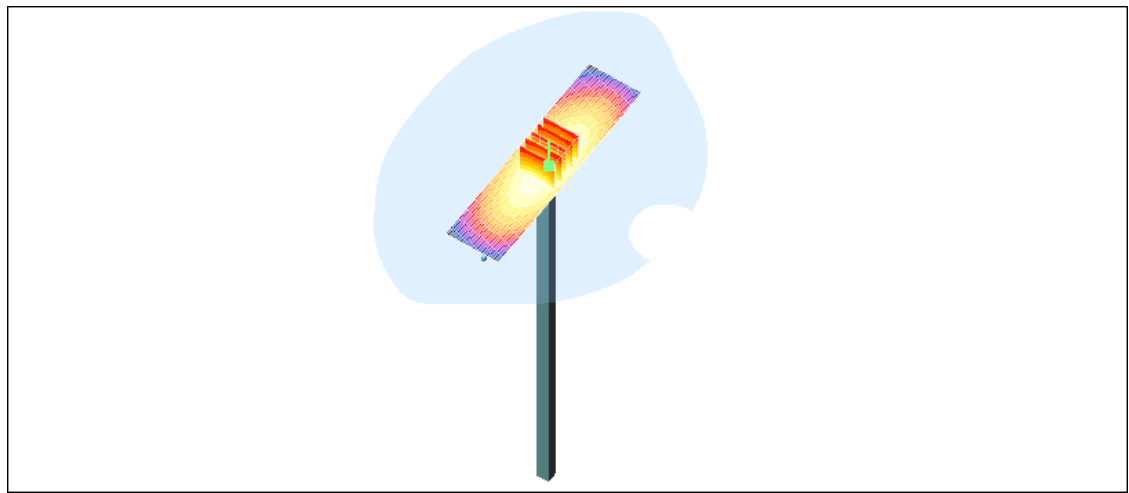
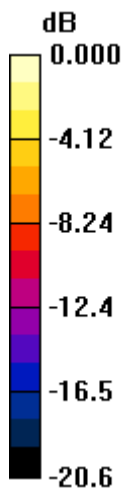
Maximum value of SAR (interpolated) =  $10.3 \text{ mW/g}$

Author Data  
**Andrew Becker**

Dates of Test  
**January 21 – March 3, 2010**

Test Report No  
**RTS-2474-1002-39**

FCC ID:  
**L6ARCV70UW**



0 dB = 10.3mW/g

|                                                                                  |                                                                                       |                                           |                              |
|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------|------------------------------|
|  | Document<br><b>Appendix A for the BlackBerry® Smartphone Model RCV71UW SAR Report</b> |                                           | Page<br><b>6(11)</b>         |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>January 21 – March 3, 2010</b>                                    | Test Report No<br><b>RTS-2474-1002-39</b> | FCC ID:<br><b>L6ARCV70UW</b> |

Date/Time: 16/02/2010 2:25:40 PM

Test Laboratory: RIM TESTING SERVICES

## DipoleValidation\_835MHz\_Amb\_Tem\_22.5\_Liq\_Tem\_20.4C\_02\_16\_10

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

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

Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.874 \text{ mho/m}$ ;  $\epsilon_r = 40.6$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

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 =  $112.8 \text{ V/m}$ ; Power Drift =  $0.047 \text{ dB}$

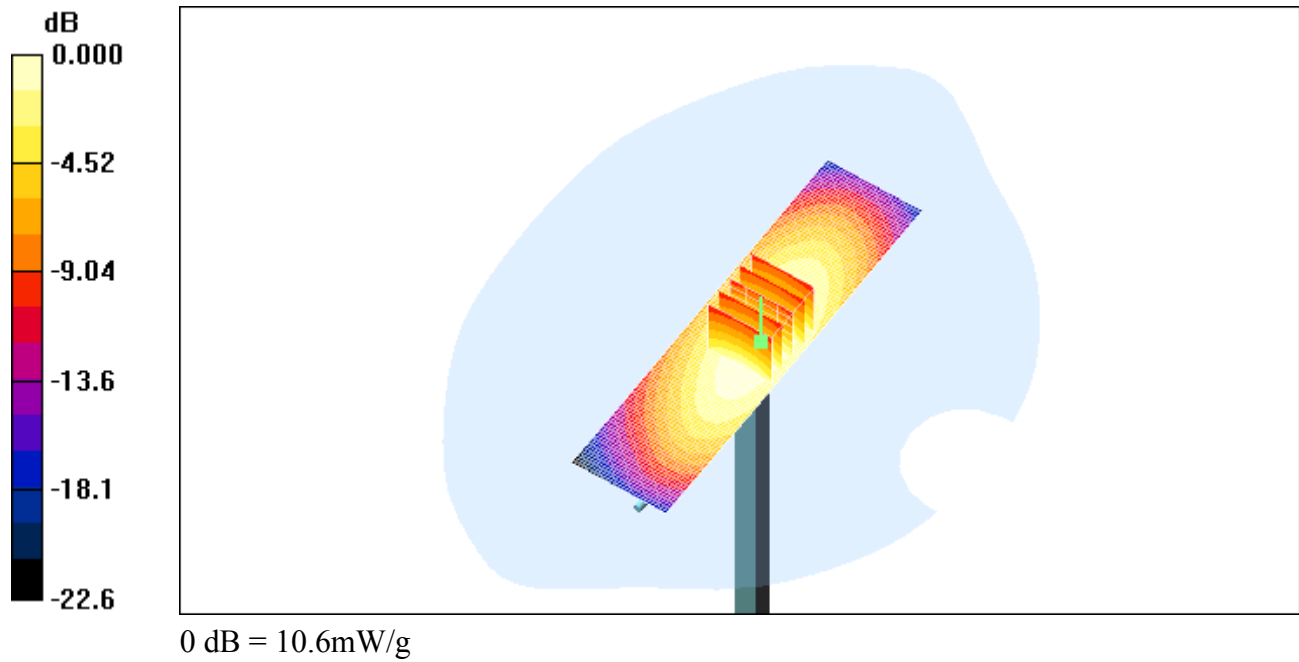
Peak SAR (extrapolated) =  $14.2 \text{ W/kg}$

**SAR(1 g) =  $9.82 \text{ mW/g}$ ; SAR(10 g) =  $6.47 \text{ mW/g}$**

Maximum value of SAR (measured) =  $10.6 \text{ mW/g}$

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

Maximum value of SAR (interpolated) =  $10.6 \text{ mW/g}$



|                                                                                  |                                                                                                 |                                           |                              |
|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------|------------------------------|
|  | Document<br><b>Appendix A for the BlackBerry® Smartphone Model RCV71UW</b><br><b>SAR Report</b> |                                           | Page<br><b>8(11)</b>         |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>January 21 – March 3, 2010</b>                                              | Test Report No<br><b>RTS-2474-1002-39</b> | FCC ID:<br><b>L6ARCV70UW</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) =  $44.8 \text{ mW/g}$

Author Data

**Andrew Becker**

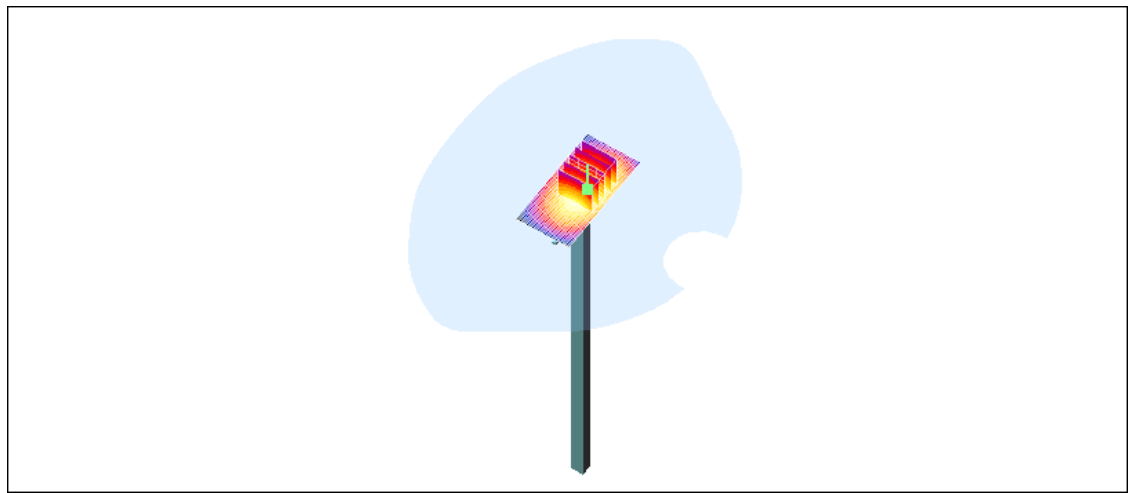
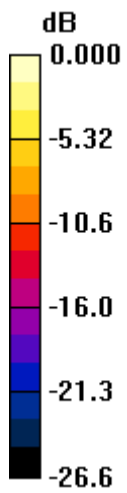
Dates of Test

**January 21 – March 3, 2010**

Test Report No

**RTS-2474-1002-39**

FCC ID:

**L6ARCV70UW**


0 dB = 44.8mW/g

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|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------|------------------------------|
|  | Document<br><b>Appendix A for the BlackBerry® Smartphone Model RCV71UW</b><br><b>SAR Report</b> |                                           | Page<br><b>10(11)</b>        |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>January 21 – March 3, 2010</b>                                              | Test Report No<br><b>RTS-2474-1002-39</b> | FCC ID:<br><b>L6ARCV70UW</b> |

Date/Time: 2/24/2010 1:32:23 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[DipoleValidation 1900MHz Amb Tem 23.4 Liq Tem 21.4 C 02 24 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:  $f = 1900 \text{ MHz}$ ;  $\sigma = 1.44 \text{ mho/m}$ ;  $\epsilon_r = 38.7$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(5.17, 5.17, 5.17); Calibrated: 3/10/2009
- 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 =  $180.2 \text{ V/m}$ ; Power Drift =  $0.051 \text{ dB}$

Peak SAR (extrapolated) =  $65.1 \text{ W/kg}$

**SAR(1 g) =  $38.1 \text{ mW/g}$ ; SAR(10 g) =  $20 \text{ mW/g}$**

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) =  $43.3 \text{ mW/g}$

Author Data

**Andrew Becker**

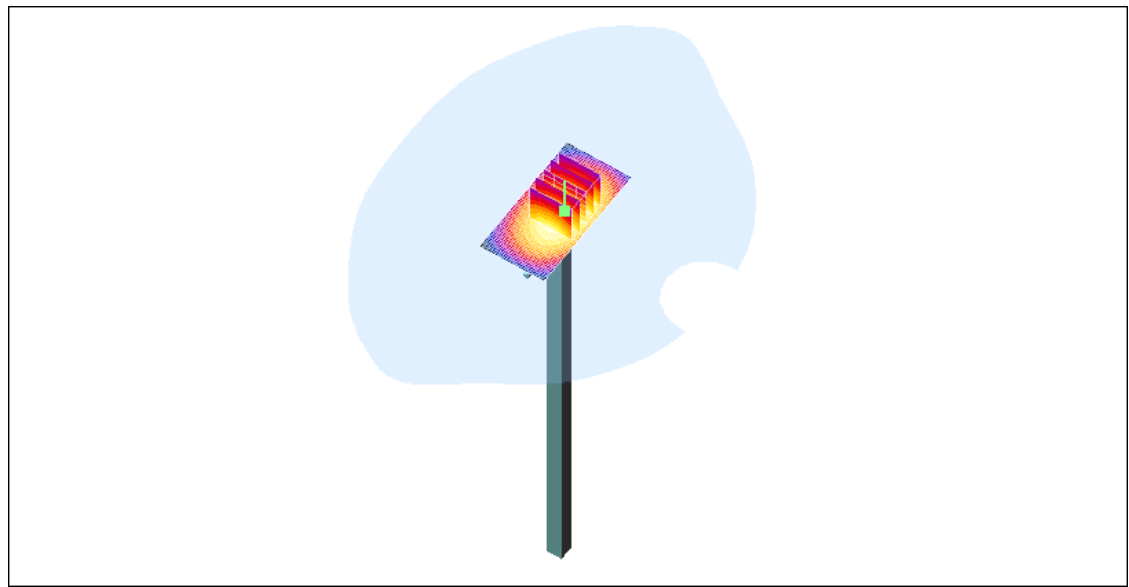
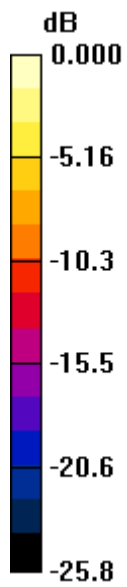
Dates of Test

**January 21 – March 3, 2010**

Test Report No

**RTS-2474-1002-39**

FCC ID:

**L6ARCV70UW**


0 dB = 43.3mW/g