

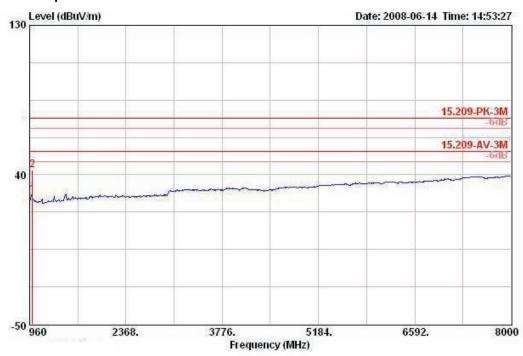
Radiated Emissions with terminated antenna port (960MHz~8GHz)

| Temperature | 26 ℃ | Humidity | 58% |
|---------------|-------------|----------------|-------------------|
| Test Engineer | Sam Chen | Configurations | ALL BAND / Ant. 2 |

The distance: 3m

Horizontal

Terminated antenna port:



| | Freq | Level | Over Limit | Limit Line | | | Preamp Factor | | Remark | Table Pos | Ant Pos | Pol/Phase |
|---|---------|--------|---------------|---------------|-------|-------|------------------|------|---------|--------------|------------|------------|
| | MKz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | - | deg | cm | |
| 1 | 998.360 | 27.87 | -26.13 | 54.00 | 38.58 | 23.64 | 36.17 | 1.83 | AVERAGE | 198 | 100 | HORIZONTAL |
| 2 | 999.160 | 42.71 | -31.29 | 74.00 | 53.41 | 23.64 | 36.17 | 1.83 | PEAK | 198 | 100 | HORIZONTAL |

 Report Format Version: 01
 Page No.
 : 48 of 80

 FCC ID: TX2RTU7105WVGA
 Issued Date
 : Jun. 30, 2008

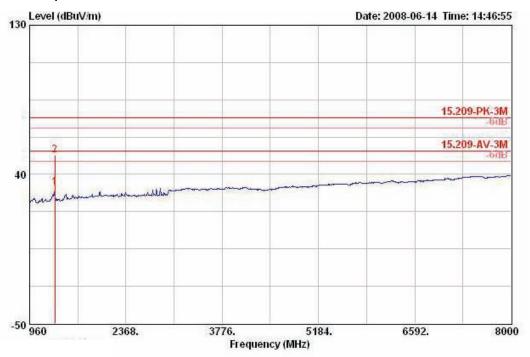




The distance: 3m

Vertical

Terminated antenna port:



| | | | Over | Limit | Read | Antenna | Preamp | Cable | | Table | Ant | |
|-----|----------|--------|--------|--------|-------|---------|--------|-------|---------|-------|-----|-----------|
| | Freq | Level | Limit | Line | Level | Factor | Factor | Loss | Remark | Pos | Pos | Pol/Phase |
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | 7 | deg | cm | 3 |
| 1 @ | 1331.220 | 32.23 | -21.77 | 54.00 | 40.48 | 24.84 | 35.28 | 2.18 | AVERAGE | 234 | 100 | VERTICAL |
| 2 @ | 1332.060 | 51.33 | -22.67 | 74.00 | 59.59 | 24.84 | 35.28 | 2.18 | PEAK | 234 | 100 | VERTICAL |

 Report Format Version: 01
 Page No.
 : 49 of 80

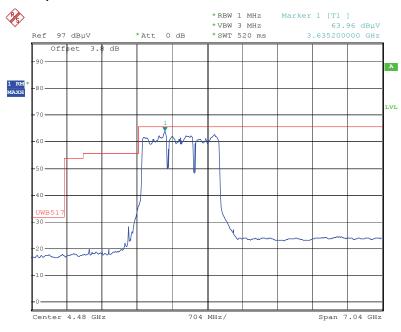
 FCC ID: TX2RTU7105WVGA
 Issued Date
 : Jun. 30, 2008



Conducted Antenna Port Emissions (960MHz~8GHz)

| Temperature | 26 ℃ | Humidity | 58% |
|---------------|-------------|----------------|-------------------|
| Test Engineer | Sam Chen | Configurations | ALL BAND / Ant. 2 |

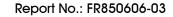
Conducted antenna port:



Date: 14.JUN.2008 09:51:11

Note: Conducted antenna port measurements made with 1 MHz RBW/3MHz VBW (RMS detector) at 50 ohm impedance. 1 msec averaging time were used for these frequencies per bin point measurements.

Report Format Version: 01 Page No. : 50 of 80 FCC ID: TX2RTU7105WVGA Issued Date : Jun. 30, 2008

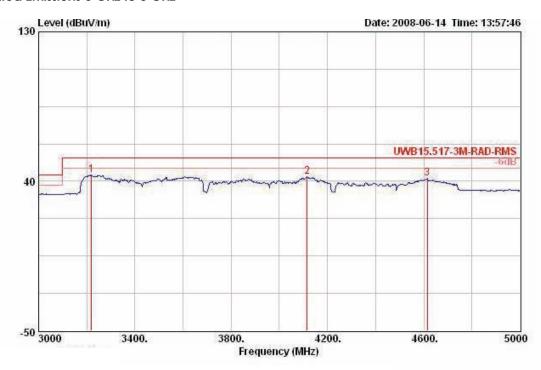




The distance: 3m

Horizontal

UWB Radiated Emissions 3 GHz to 5 GHz



| | Freq | Level | Over Limit | 74.00 | | | Preamp Factor | | Remark | Table Pos | Ant Pos Pol/P | hase |
|-----|----------|--------|---------------|--------|-------|-------|------------------|------|--------|--------------|------------------|-------|
| | Mz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | - | deg | cm. | |
| 1 @ | 3220.000 | 43.76 | -10.14 | 53.90 | 45.63 | 29.74 | 34.96 | 3.35 | Peak | 23 | 110 HORIZ | ONTAL |
| 2 @ | 4116.000 | 42.66 | -11.24 | 53.90 | 42.85 | 31.67 | 35.28 | 3.42 | Peak | 102 | 100 HORIZ | DNTAL |
| 3 @ | 4614.000 | 41.59 | -12.31 | 53.90 | 41.17 | 32.09 | 35.67 | 4.00 | Peak | 156 | 100 HORIZ | DNTAL |
| | | | | | | | | | | | | |

Note: Measurements made with 1 MHz RBW/3MHz VBW (RMS detector) at 3m distance. 1 msec averaging time were used for these frequencies per bin point measurements.

Report Format Version: 01 Page No. : 51 of 80 FCC ID: TX2RTU7105WVGA Issued Date : Jun. 30, 2008

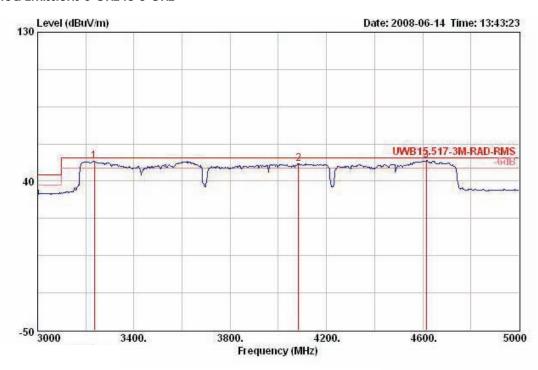




The distance: 3m

Vertical

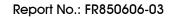
UWB Radiated Emissions 3 GHz to 5 GHz



| | Freq | Level | | Limit Line | | | Preamp Factor | | Remark | Table Pos | Ant Pos | Pol/Phase |
|-----|----------|--------|-------|---------------|-------|-------|------------------|------|--------|--------------|------------|-----------|
| | MKz | dBuV/m | dB | dBuV/m | dBuV | dB/m | дв | дв | 1 | deg | cm | |
| 1 @ | 3236.000 | 52.03 | -1.87 | 53.90 | 53.84 | 29.78 | 34.96 | 3.37 | Peak | 79 | 100 | VERTICAL |
| 2 @ | 4084.000 | 50.61 | -3.29 | 53.90 | 50.80 | 31.65 | 35.23 | 3.40 | Peak | 102 | 100 | VERTICAL |
| 3 @ | 4614.000 | 52.59 | -1.31 | 53.90 | 52.17 | 32.09 | 35.67 | 4.00 | Peak | 269 | 100 | VERTICAL |

Note: Measurements made with 1 MHz RBW/3MHz VBW (RMS detector) at 3m distance. 1 msec averaging time were used for these frequencies per bin point measurements.

Report Format Version: 01 Page No. : 52 of 80 FCC ID: TX2RTU7105WVGA Issued Date : Jun. 30, 2008

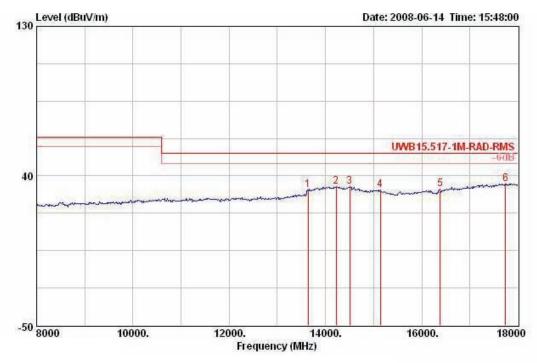




The distance: 1m

Horizontal

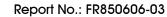
UWB Radiated Emissions 8 GHz to 18 GHz



| | Freq | Level | Over Limit | | | | Preamp Factor | | Remark | Table Pos | Ant Pos | Pol/Phase |
|------------|-----------|--------|---------------|--------|-------|-------|------------------|------|--------|--------------|------------|------------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | - дв | dВ | | deg | cm | |
| 1 @ | 13640.000 | 31.44 | -22.00 | 53.44 | 16.44 | 40.50 | 33.22 | 7.72 | Peak | 0 | 100 | HORIZONTAL |
| 2 @ | 14220.000 | 33.42 | -20.02 | 53.44 | 17.67 | 40.82 | 33.24 | 8.17 | Peak | 0 | 100 | HORIZONTAL |
| 3 @ | 14500.000 | 33.34 | -20.10 | 53.44 | 17.92 | 40.54 | 33.39 | 8.27 | Peak | 0 | 100 | HORIZONTAL |
| 4 @ | 15140.000 | 31.59 | -21.85 | 53.44 | 18.72 | 38.82 | 34.22 | 8.26 | Peak | 0 | 100 | HORIZONTAL |
| 5 @ | 16380.000 | 32.20 | -21.24 | 53.44 | 18.97 | 39.12 | 34.88 | 9.00 | Peak | 0 | 100 | HORIZONTAL |
| 6 @ | 17740.000 | 35.08 | -18.36 | 53.44 | 17.48 | 42.39 | 33.84 | 9.05 | Peak | 0 | 100 | HORIZONTAL |

Note: Measurements made with 1 MHz RBW/3MHz VBW (RMS detector) at 1m distance. 1 msec averaging time were used for these frequencies per bin point measurements.

Report Format Version: 01 Page No. : 53 of 80 FCC ID: TX2RTU7105WVGA Issued Date : Jun. 30, 2008

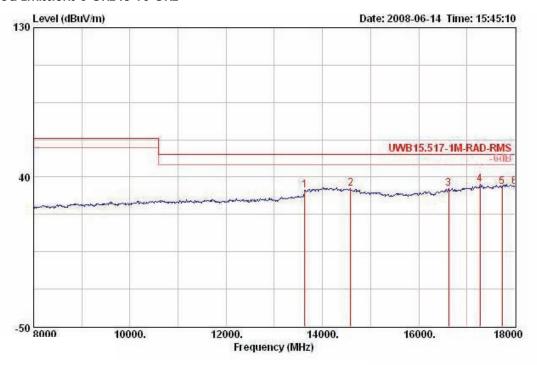




The distance: 1m

Vertical

UWB Radiated Emissions 8 GHz to 18 GHz



| | | | Over | Limit | Read | Antenna | Preamp | Cable | | Table | Ant | |
|-----|-----------|--------|--------|--------|-------|---------|--------|-------|--------|-------|-----|-----------|
| | Freq | Level | Limit | Line | Level | Factor | Factor | Loss | Remark | Pos | Pos | Pol/Phase |
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | дв | dB | 1 | deg | cm | 1 |
| 1 @ | 13630.000 | 32.14 | -21.30 | 53.44 | 17.17 | 40.47 | 33.22 | 7.72 | Peak | 360 | 100 | VERTICAL |
| 2 @ | 14580.000 | 33.09 | -20.35 | 53.44 | 17.95 | 40.35 | 33.49 | 8.28 | Peak | 360 | 100 | VERTICAL |
| 3 @ | 16620.000 | 32.99 | -20.45 | 53.44 | 18.79 | 39.86 | 34.70 | 9.04 | Peak | 360 | 100 | VERTICAL |
| 4 @ | 17270.000 | 35.44 | -18.00 | 53.44 | 18.50 | 41.87 | 33.98 | 9.05 | Peak | 360 | 100 | VERTICAL |
| 5 @ | 17730.000 | 34.23 | -19.22 | 53.44 | 16.65 | 42.37 | 33.85 | 9.05 | Peak | 360 | 100 | VERTICAL |
| 6 @ | 18000.000 | 34.15 | -19.29 | 53.44 | 16.16 | 42.70 | 33.77 | 9.05 | Peak | 360 | 100 | VERTICAL |

Note: Measurements made with 1 MHz RBW/3MHz VBW (RMS detector) at 1m distance. 1 msec averaging time were used for these frequencies per bin point measurements.

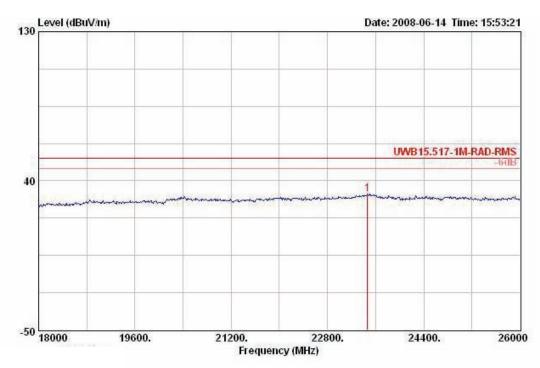
Report Format Version: 01 Page No. : 54 of 80 FCC ID: TX2RTU7105WVGA Issued Date : Jun. 30, 2008



The distance: 1m

Horizontal

UWB Radiated Emissions 18 GHz to 26 GHz



| | Freq | Level | | Limit Line | | | | | Remark | Table Pos | Ant Pos | Pol/Phase |
|-----|-----------|--------|--------|---------------|-------|-------|-------|-------|--------|--------------|------------|------------|
| | Mtz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | дв | | deg | cm | N |
| 1 @ | 23464.000 | 32.07 | -21.37 | 53.44 | 14.12 | 39.60 | 33.76 | 12.12 | Peak | 61 | 100 | HORIZONTAL |

Note: Measurements made with 1 MHz RBW/3MHz VBW (RMS detector) at 1m distance. 1 msec averaging time were used for these frequencies per bin point measurements.

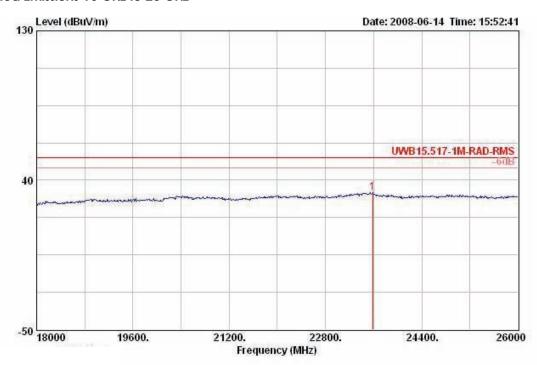
Report Format Version: 01 Page No. : 55 of 80 FCC ID: TX2RTU7105WVGA Issued Date : Jun. 30, 2008



The distance: 1m

Vertical

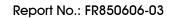
UWB Radiated Emissions 18 GHz to 26 GHz



| | | | 0ver | Limit | Readi | Antenna | Preamp | Cable | | Table | Ant | |
|-----|-----------|--------|--------|--------|-------|---------|--------|-------|--------|-------|-----|------------|
| | Freq | Level | Limit | Line | Level | Factor | Factor | Loss | Remark | Pos | Pos | Pol/Phase |
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | - | deg - | cm | 1 <u> </u> |
| 1 @ | 23584.000 | 32.48 | -20.96 | 53.44 | 14.56 | 39.60 | 33.79 | 12.11 | Peak | 191 | 100 | VERTICAL |

Note: Measurements made with 1 MHz RBW/3MHz VBW (RMS detector) at 1m distance. 1 msec averaging time were used for these frequencies per bin point measurements.

Report Format Version: 01 Page No. : 56 of 80 FCC ID: TX2RTU7105WVGA Issued Date : Jun. 30, 2008

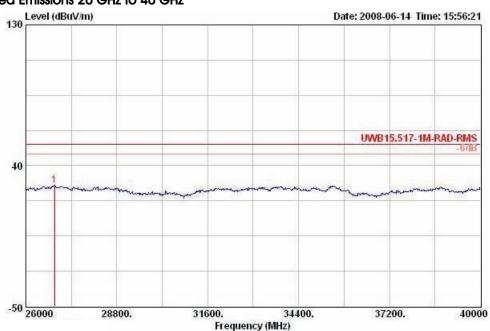




The distance: 1m

Horizontal

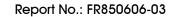
UWB Radiated Emissions 26 GHz to 40 GHz



| | Freq | Level | | Limit Line | | | Preamp Factor | | Remark | Table Pos | Ant Pos | Pol/Phase |
|---|-----------|--------|--------|---------------|-------|-------|------------------|-------|--------|--------------|------------|------------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | 0) | deg | cm | |
| 1 | 26882.000 | 27.34 | -26.10 | 53.44 | 18.62 | 39.54 | 30.82 | 14.56 | Peak | 144 | 100 | HORIZONTAL |

Note: Measurements made with 1 MHz RBW/3MHz VBW (RMS detector) at 1m distance. 1 msec averaging time were used for these frequencies per bin point measurements.

Report Format Version: 01 Page No. : 57 of 80 FCC ID: TX2RTU7105WVGA Issued Date : Jun. 30, 2008

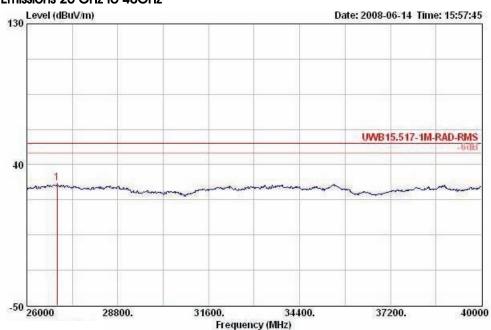




The distance: 1m

Vertical

UWB Radiated Emissions 26 GHz to 40GHz



| | 3 <u>2-</u> 85000 | | | Limit | | | | | | Table | Ant | |
|-----|-------------------|--------|--------|--------|-------|--------|--------|-------|--------|-------|-----|-----------|
| | Freq | Level | Limit | Line | Level | Factor | Factor | Loss | Remark | Pos | Pos | Pol/Phase |
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | - | deg | cm | |
| 1 0 | 26938.000 | 28.45 | -24.99 | 53.44 | 19.64 | 39.55 | 30.73 | 16.16 | Peak | 83 | 100 | VERTICAL |

Note: Measurements made with 1 MHz RBW/3MHz VBW (RMS detector) at 1m distance. 1 msec averaging time were used for these frequencies per bin point measurements.

Report Format Version: 01 Page No. : 58 of 80 FCC ID: TX2RTU7105WVGA Issued Date : Jun. 30, 2008

4.5. Radiated Emissions in GPS Bands Measurement

4.5.1. Limit

In addition to the radiated emission limits specified in the table in paragraph 4.5.1 of this report, UWB transmitters operating under the provisions of this section shall not exceed the following average limits when measured using a resolution bandwidth of no less than 1 kHz.

| Freq. (MHz) | EIRP (dBm) | E- Field (dB μ V/m) at 3m | E- Field (dB μ V/m) at 1 m | E- Field (dB μ V/m) at 0.5m |
|-------------|------------|------------------------------|-------------------------------|--------------------------------|
| 1164-1240 | -85.3 | 9.9 | 19.44 | 25.46 |
| 1559-1610 | -85.3 | 9.9 | 19.44 | 25.46 |

Note 1: This may be converted to a peak field strength level at 3 meters using E(dBuV/m) = P(dBm EIRP) + 95.2 dB.

Note 2: Above 960MHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade form 3m to 1m. Distance extrapolation factor = 20 log (specific distance [3m] / test distance [1m]) (dB); Limit line = specific limits (dBuV) + distance extrapolation factor [9.54 dB]. form 3m to 0.5m. Distance extrapolation factor = 20 log (specific distance [3m] / test distance [0.5m]) (dB); Limit line = specific limits (dBuV) + distance extrapolation factor [15.56 dB].

4.5.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer and receiver.

| Spectrum Parameter | Setting |
|--------------------|---|
| Attenuation | 0 dB |
| RB / VB | 10 kHz / 10kHz for RMS for Average, 1 msec averaging time |
| KD/VD | were used for these measurement frequencies |

4.5.3. Test Procedures

- Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8
 meter above ground. The phase center of the receiving antenna mounted on the top of a
 height-variable antenna tower was placed 1 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Measurements frequencies were maximized using a spectrum analyzer with RMS detector capabilities. A spectrum analyzer was used for the final measurements utilizing an RMS detector at

Report Format Version: 01 Page No. : 59 of 80 FCC ID: TX2RTU7105WVGA Issued Date : Jun. 30, 2008



the frequencies with the largest amplitudes. The prescribed RBW of 10 kHz and VBW of 10 kHz, and a 1 msec averaging time were used for these measurements.

6. Per 47 CFR, Part 15, Subpart F, §15.521(c) (§15.209) all digital emissions from the transmitter not intended to be radiated from the antenna port meet the 15.209 subpart C limits.

4.5.4. Test Setup Layout

This test setup layout is the same as that shown in section 4.4.4.

4.5.5. Test Deviation

There is no deviation with the original standard.

4.5.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

Report Format Version: 01 Page No. : 60 of 80 FCC ID: TX2RTU7105WVGA Issued Date : Jun. 30, 2008

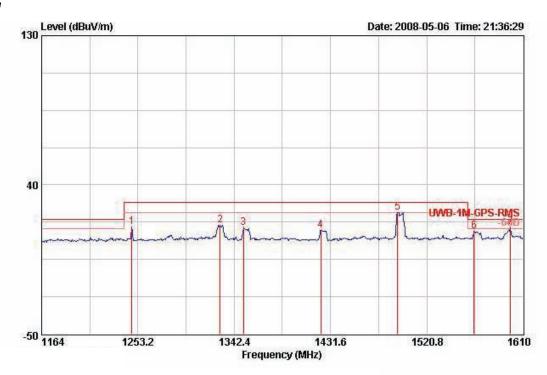


4.5.7. Results for Radiated Emissions in GPS Bands

| Temperature | 26 ℃ | Humidity | 58% |
|---------------|-------------|----------------|-------------------|
| Test Engineer | Sam Chen | Configurations | ALL BAND / Ant. 1 |

The distance: 1m

Horizontal



| | _ | | Over | | | | Preamp | | | Table | Ant | n 1 (n) |
|-----|----------|--------|--------|--------|-------|--------|--------|------|--------|-------|-----|-------------|
| | Freq | Level | Limit | Line | rever | Factor | Factor | Loss | Remark | Pos | Pos | Pol/Phase |
| | Mtz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | FI | deg | cm | |
| 1 @ | 1247.402 | 14.81 | -14.63 | 29.44 | 23.77 | 24.52 | 35.55 | 2.07 | Peak | 360 | 100 | HORI ZONTAL |
| 2 @ | 1329.466 | 15.45 | -13.99 | 29.44 | 23.71 | 24.84 | 35.28 | 2.18 | Peak | 360 | 100 | HORIZONTAL |
| 3 @ | 1350.874 | 14.26 | -15.18 | 29.44 | 22.45 | 24.91 | 35.28 | 2.18 | Peak | 360 | 100 | HORIZONTAL |
| 4 0 | 1422.680 | 12.39 | -17.05 | 29.44 | 19.96 | 25.26 | 35.08 | 2.26 | Peak | 360 | 100 | HORIZONTAL |
| 5 @ | 1493.594 | 23.33 | -6.11 | 29.44 | 30.35 | 25.55 | 34.89 | 2.32 | Peak | 360 | 100 | HORIZONTAL |
| 6 e | 1564.508 | 12.10 | -7.34 | 19.44 | 18.68 | 25.90 | 34.80 | 2.31 | Peak | 360 | 100 | HORIZONTAL |
| 7 @ | 1598.404 | 14.70 | -4.74 | 19.44 | 21.13 | 26.10 | 34.84 | 2.31 | Peak | 360 | 100 | HORIZONTAL |

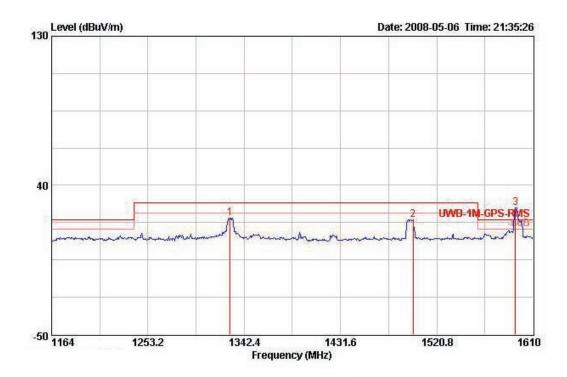
 Report Format Version: 01
 Page No.
 : 61 of 80

 FCC ID: TX2RTU7105WVGA
 Issued Date
 : Jun. 30, 2008



The distance: 1m

Vertical



| | Freq | Level | Over Limit | Limit Line | | | Preamp Factor | | | Table Pos | Ant Pos | Pol/Phase |
|-----|----------|--------|---------------|---------------|-------|-------|------------------|------|------|--------------|------------|------------|
| | Mtz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | дв | 1 | deg | cm | <u>1</u> 8 |
| 1 @ | 1329.466 | 20.36 | -9.08 | 29.44 | 28.61 | 24.84 | 35.28 | 2.18 | Peak | 0 | 100 | VERTICAL |
| 2 @ | 1498.946 | 19.44 | -10.00 | 29.44 | 26.46 | 25.55 | 34.89 | 2.32 | Peak | 0 | 100 | VERTICAL |
| 3 @ | 1593.498 | 26.31 | | | 32.73 | 26.10 | 34.84 | 2.31 | Peak | 0 | 100 | VERTICAL |

Note: Measurements made with 10KHz RBW/10KHz VBW (RMS detector) at 1m distance. 1 msec averaging time were used for these frequencies per bin point measurements. Emissions (Mark 3) from digital circuitry used to enable the operation of the UWB transmitter shall comply with the limits in 47 CFR, Part 15, Subpart C, §15.209.



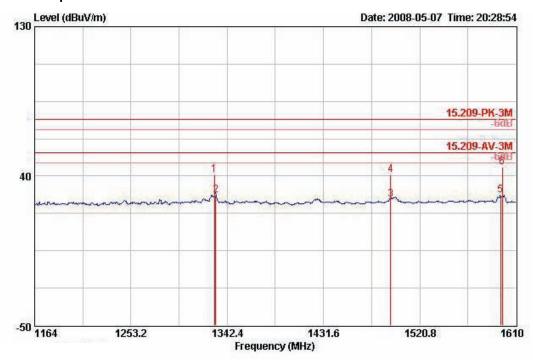
Radiated Emissions in GPS Bands with terminated antenna port

| Temperature | 26 ℃ | Humidity | 58% |
|---------------|-------------|----------------|-------------------|
| Test Engineer | Sam Chen | Configurations | All Band / Ant. 1 |

The distance: 3m

Horizontal

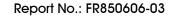
Terminated antenna port:



| | | | Over | Limit | Read | Antenna | Preamp | Cable | | Table | Ant | |
|-----|----------|--------|--------|--------|-------|---------|--------|-------|---------|-------|-----|------------|
| | Freq | Level | Limit | Line | Level | Factor | Factor | Loss | Remark | Pos | Pos | Pol/Phase |
| | MKz | dBuV/m | dB | dBuV/m | dBuV | dB/m | дв | ав | 12 | deg | cm | <u> </u> |
| 1 | 1330.576 | 40.68 | -33.32 | 74.00 | 48.93 | 24.84 | 35.28 | 2.18 | PEAK | 91 | 100 | HORIZONTAL |
| 2 @ | 1331.776 | 28.57 | -25.43 | 54.00 | 36.82 | 24.84 | 35.28 | 2.18 | AVERAGE | 91 | 100 | HORIZONTAL |
| 3 | 1493.720 | 25.68 | -28.32 | 54.00 | 32.70 | 25.55 | 34.89 | 2.32 | AVERAGE | 335 | 100 | HORIZONTAL |
| 4 | 1493.880 | 40.64 | -33.36 | 74.00 | 47.66 | 25.55 | 34.89 | 2.32 | PEAK | 335 | 100 | HORIZONTAL |
| 5 @ | 1595.728 | 28.29 | -25.71 | 54.00 | 34.71 | 26.10 | 34.84 | 2.31 | AVERAGE | 243 | 100 | HORIZONTAL |
| 6 | 1597.320 | 45.24 | -28.76 | 74.00 | 51.67 | 26.10 | 34.84 | 2.31 | PEAK | 243 | 100 | HORIZONTAL |

Note: Digital circuitry used to enable the operation of the UWB transmitter shall comply with the limits in 47 CFR, Part 15, Subpart C, §15.209.

Report Format Version: 01 Page No. : 63 of 80 FCC ID: TX2RTU7105WVGA Issued Date : Jun. 30, 2008

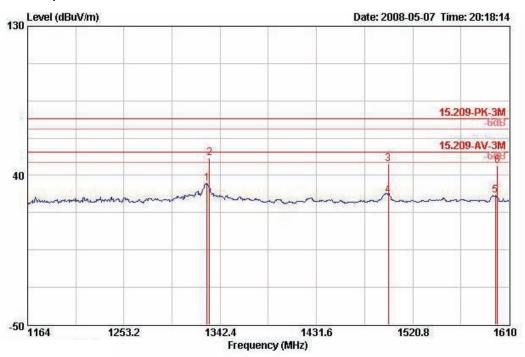




The distance: 3m

Vertical

Terminated antenna port:



| | | | Over | | | | PARTY TO SERVICE STATE | | | Table | Ant | |
|-----|----------|--------|--------|--------|-------|--------|------------------------|------|---------|-------|-----|------------|
| | Freq | Level | Limit | Line | Level | Factor | Factor | Loss | Remark | Pos | Pos | Pol/Phase |
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | FI | deg | cm | - <u>1</u> |
| 1 @ | 1330.112 | 34.97 | -19.03 | 54.00 | 43.22 | 24.84 | 35.28 | 2.18 | AVERAGE | 350 | 100 | VERTICAL |
| 2 @ | 1332.572 | 50.44 | -23.56 | 74.00 | 58.69 | 24.84 | 35.28 | 2.18 | PEAK | 350 | 100 | VERTICAL |
| 3 @ | 1498.052 | 46.98 | -27.02 | 74.00 | 54.00 | 25.55 | 34.89 | 2.32 | PEAK | 197 | 115 | VERTICAL |
| 4 @ | 1498.292 | 28.16 | -25.84 | 54.00 | 35.18 | 25.55 | 34.89 | 2.32 | AVERAGE | 197 | 115 | VERTICAL |
| 5 @ | 1597.320 | 27.95 | -26.05 | 54.00 | 34.38 | 26.10 | 34.84 | 2.31 | AVERAGE | 333 | 115 | VERTICAL |
| 6 | 1599.120 | 45.71 | -28.29 | 74.00 | 52.14 | 26.10 | 34.84 | 2.31 | PEAK | 333 | 115 | VERTICAL |

Note: Digital circuitry used to enable the operation of the UWB transmitter shall comply with the limits in 47 CFR, Part 15, Subpart C, §15.209.

 Report Format Version: 01
 Page No.
 : 64 of 80

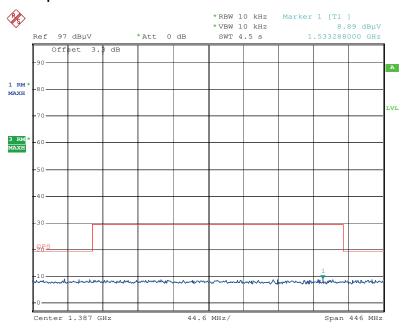
 FCC ID: TX2RTU7105WVGA
 Issued Date
 : Jun. 30, 2008



Conducted Antenna Port Emissions

| Temperature | 26 ℃ | Humidity | 58% |
|---------------|-------------|----------------|-------------------|
| Test Engineer | Sam Chen | Configurations | All Band / Ant. 1 |

Conducted antenna port:



Date: 6.MAY.2008 15:28:36

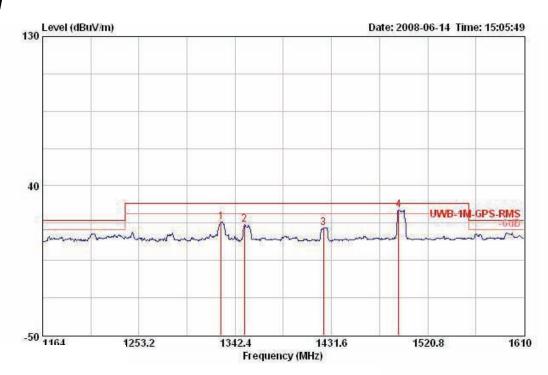
Note: Conducted antenna port measurements made with 10 kHz RBW at 1m distance, 1 msec averaging time were used for these frequencies per bin point measurements.



| Temperature | 26 ℃ | Humidity | 58% |
|---------------|-------------|----------------|------------------|
| Test Engineer | Sam Chen | Configurations | All Band / Ant 2 |

The distance: 1m

Horizontal



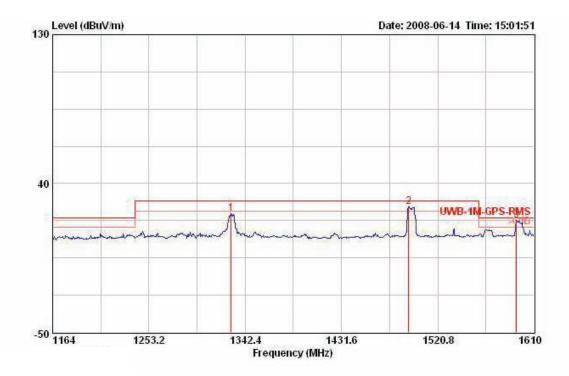
| | Fı | req | Level | Over Limit | 3784 | | | Preamp Factor | | Remark | Table Pos | Ant Pos | Pol/Phase |
|-----|--------|-----|--------|---------------|--------|-------|-------|------------------|------|--------|--------------|------------|------------|
| | - 2 | Otz | dBuV/m | ав | dBuV/m | dBuV | dB/m | - dB | ав | | deg | cm | 3 |
| 10 | 1329.4 | 166 | 18.10 | -11.34 | 29.44 | 26.36 | 24.84 | 35.28 | 2.18 | Peak | 0 | 100 | HORIZONTAL |
| 2 @ | 1350.8 | 874 | 16.84 | -12.60 | 29.44 | 25.03 | 24.91 | 35.28 | 2.18 | Peak | 0 | 100 | HORIZONTAL |
| 3 @ | 1424.0 | 018 | 14.79 | -14.65 | 29.44 | 22.35 | 25.26 | 35.08 | 2.26 | Peak | 0 | 100 | HORIZONTAL |
| 4 @ | 1493. | 594 | 25.46 | -3.98 | 29.44 | 32.48 | 25.55 | 34.89 | 2.32 | Peak | 0 | 100 | HORIZONTAL |

Note: Measurements made with 10kHz RBW/10KHz VBW (RMS detector) at 1m distance. 1 msec averaging time were used for these frequencies per bin point measurements.



The distance: 1m

Vertical



| | Freq | Level | Over Limit | Limit Line | | | Preamp Factor | | | Table Pos | Ant Pos | Pol/Phase |
|-----|----------|--------|---------------|---------------|-------|-------|------------------|------|------|--------------|------------|-----------|
| | Mtz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | deg - | cm | 3 |
| 1 @ | 1329.466 | 21.82 | -7.62 | 29.44 | 30.07 | 24.84 | 35.28 | 2.18 | Peak | 0 | 100 | VERTICAL |
| 2 @ | 1493.594 | 26.12 | -3.32 | 29.44 | 33.15 | 25.55 | 34.89 | 2.32 | Peak | 0 | 100 | VERTICAL |
| 3 @ | 1593.498 | 17.60 | -1.84 | 19.44 | 24.02 | 26.10 | 34.84 | 2.31 | Peak | 0 | 100 | VERTICAL |

Note: Measurements made with 10kHz RBW/10KHz VBW (RMS detector) at 1m distance. 1 msec averaging time were used for these frequencies per bin point measurements.



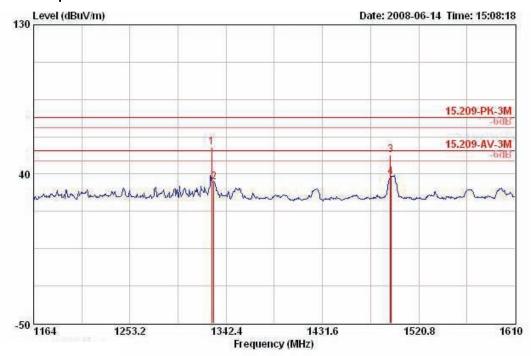
Radiated Emissions in GPS Bands with terminated antenna port

| Temperature | 26 ℃ | Humidity | 58% |
|---------------|-------------|----------------|-------------------|
| Test Engineer | Sam Chen | Configurations | All Band / Ant. 2 |

The distance: 3m

Horizontal

Terminated antenna port:



| | | | 0ver | Limit | Read | Antenna | Preamp | Cable | | Table | Ant | |
|-----|----------|--------|--------|--------|-------|---------|--------|-------|---------|-------|-----|------------|
| | Freq | Level | Limit | Line | Level | Factor | Factor | Loss | Remark | Pos | Pos | Pol/Phase |
| | MKz | dBuV/m | dB | dBuV/m | dBuV | dB/m | ав | ав | | deg | cm | |
| 1 | 1329.048 | 56.02 | -17.98 | 74.00 | 64.28 | 24.84 | 35.28 | 2.18 | PEAK | 146 | 100 | HORIZONTAL |
| 2 | 1330.808 | 35.07 | -18.93 | 54.00 | 43.33 | 24.84 | 35.28 | 2.18 | AVERAGE | 146 | 100 | HORIZONTAL |
| 3 | 1494.372 | 51.63 | -22.37 | 74.00 | 58.70 | 25.50 | 34.89 | 2.32 | PERK | 162 | 100 | HORIZONTAL |
| 4 @ | 1494.892 | 38.07 | -15.93 | 54.00 | 45.14 | 25.50 | 34.89 | 2.32 | AVERAGE | 162 | 100 | HORIZONTAL |

Note: Digital circuitry used to enable the operation of the UWB transmitter shall comply with the limits in 47 CFR, Part 15, Subpart C, §15.209.

 Report Format Version: 01
 Page No.
 : 68 of 80

 FCC ID: TX2RTU7105WVGA
 Issued Date
 : Jun. 30, 2008

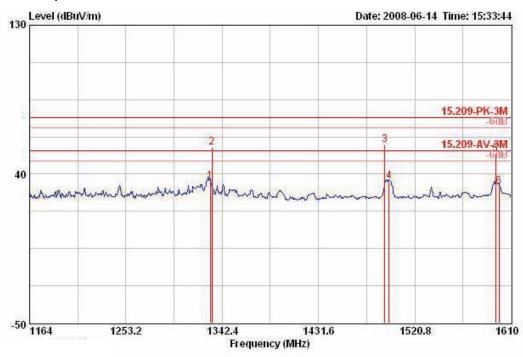




The distance: 3m

Vertical

Terminated antenna port:



| | | | Over | Limit | Read | Antenna | Preamp | Cable | | Table | Ant | |
|---|----------|--------|--------|--------|-------|---------|--------|-------|---------|-------|-----|-----------|
| | Freq | Level | Limit | Line | Level | Factor | Factor | Loss | Remark | Pos | Pos | Pol/Phase |
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | n | deg | cm | 20 |
| 1 | 1331.156 | 35.39 | -18.61 | 54.00 | 43.64 | 24.84 | 35.28 | 2.18 | AVERAGE | 169 | 100 | VERTICAL |
| 2 | 1333.036 | 55.99 | -18.01 | 74.00 | 64.17 | 24.91 | 35.28 | 2.18 | PEAK | 169 | 100 | VERTICAL |
| 3 | 1492.904 | 57.78 | -16.22 | 74.00 | 64.85 | 25.50 | 34.89 | 2.32 | PEAK | 110 | 108 | VERTICAL |
| 4 | 1496.904 | 35.83 | -18.17 | 54.00 | 42.90 | 25.50 | 34.89 | 2.32 | AVERAGE | 110 | 108 | VERTICAL |
| 5 | 1595.708 | 51.95 | -22.05 | 74.00 | 58.37 | 26.10 | 34.84 | 2.31 | PEAK | 240 | 118 | VERTICAL |
| 6 | 1598.628 | 32.56 | -21.44 | 54.00 | 38.98 | 26.10 | 34.84 | 2.31 | AVERAGE | 240 | 118 | VERTICAL |

Note: Digital circuitry used to enable the operation of the UWB transmitter shall comply with the limits in 47 CFR, Part 15, Subpart C, §15.209.

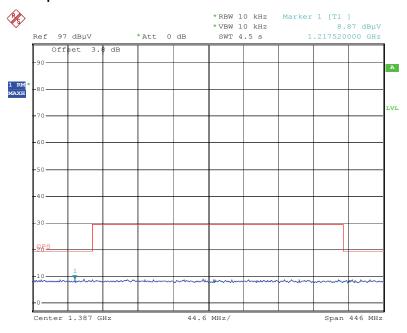
Report Format Version: 01 Page No. : 69 of 80 FCC ID: TX2RTU7105WVGA Issued Date : Jun. 30, 2008



Conducted Antenna Port Emissions

| Temperature | 26 ℃ | Humidity | 58% | |
|---------------|-------------|----------------|-------------------|--|
| Test Engineer | Sam Chen | Configurations | All Band / Ant. 2 | |

Conducted antenna port:



Date: 14.JUN.2008 09:52:31

Note: Conducted antenna port measurements made with 10 kHz RBW/ 1kHz VBW at 1m distance, 1 msec averaging time were used for these frequencies per bin point measurements.

4.6. Peak Emissions within a 50 MHz Bandwidth Measurement

4.6.1. Limit

There is a limit on the peak level of the emissions contained within a 50 MHz bandwidth centered on the frequency at which the highest radiated emission occurs, fM. That limit is 0 dBm EIRP. It is acceptable to employ a different resolution bandwidth, and a correspondingly different peak emission limit, EIRP limit has to be adjusted by the resolution bandwidth ratio of $20\log(RBW/50)$ dB, where RBW is the resolution bandwidth used for the measurement expressed in MHz. In addition, This may be converted to a peak field strength level at 3 meters using E(dBuV/m) = P(dBm EIRP) + 95.2 dB. And Peak emission shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade form 3m to 1m. Distance extrapolation factor = 20 log (specific distance [3m] / test distance [1m]) (dB); Limit line = specific limits (dBuV) + distance extrapolation factor [9.54 dB]

| Peak EIRP limit dBm | Peak EIRP limit dBm | E- Field (dB μ V/m) at 3m | E- Field (dB μ V/m) at 1 m |
|---------------------|---------------------|-------------------------------|--------------------------------|
| (RB / VB : 50MHz) | (RB / VB: 10MHz) | (RB / VB: 10MHz) | (RB / VB: 10MHz) |
| 0 | -13.97 | 81.23 | 90.77 |

4.6.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

| Spectrum Parameter | Setting |
|--------------------|------------------------|
| Attenuation | Auto |
| Sweep Time | Auto |
| RB / VB | 10MHz / 10MHz for Peak |

4.6.3. Test Procedures

- The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the
 receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far
 away from the turntable.
- 2. The horn receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 3. For maximum peak emission amplitude, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading and was used to determine the frequency at which the highest radiated emission occurs, fM.
- 4. The individual UWB bandwidths were measured for each BAND_ID (*nb*) of the UWB spectrum. Both horizontal and vertical polarizations were taken into account to determine the full UWB BW on the maximized (in azimuth and elevation) signals.
- 5. A spectrum analyzer was used for the final measurement utilizing a peak detector at the frequency with the largest amplitude. The prescribed resolution bandwidth of 50 MHz was not supported by the spectrum analyzer. However, when a peak measurement is required, The resolution bandwidth for

Report Format Version: 01 Page No. : 71 of 80 FCC ID: TX2RTU7105WVGA Issued Date : Jun. 30, 2008



this measurement was set to 10 MHz, and the measurement was centered on the frequency at which the highest radiated emission occurred, fM. The video bandwidth was 10 MHz.

4.6.4. Test Setup Layout

This test setup layout is the same as that shown in section 4.3.4.

4.6.5. Test Deviation

There is no deviation with the original standard.

4.6.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

 Report Format Version: 01
 Page No.
 : 72 of 80

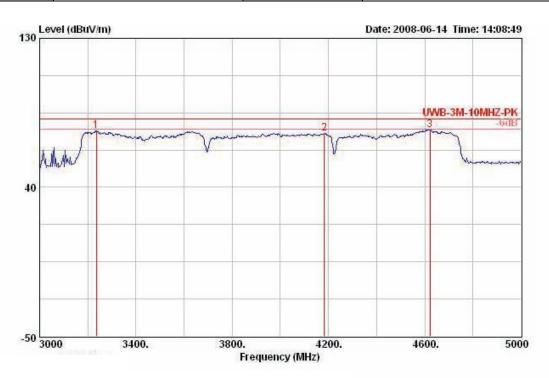
 FCC ID: TX2RTU7105WVGA
 Issued Date
 : Jun. 30, 2008



4.6.7. Test Result of Peak Emissions within a 50 MHz Bandwidth

| Temperature | 26 ℃ | Humidity | 28% | |
|---------------|-------------|----------------|-------------------|--|
| Test Engineer | Sam Chen | Configurations | All Band / Ant. 1 | |

Vertical

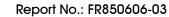


| | | | Over | Limit | Read | Antenna | Preamp | Cable | | Table | Ant | |
|-----|----------|--------|-------|--------|-------|---------|--------|-------|--------|-------|-----|-----------|
| | Freq | Level | Limit | Line | Level | Factor | Factor | Loss | Remark | Pos | Pos | Pol/Phase |
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | - дв | дв | - | deg | cm | - |
| 10 | 3236.000 | 74.15 | -7.08 | 81.23 | 75.95 | 29.78 | 34.96 | 3.37 | Peak | 80 | 100 | VERTICAL |
| 2 @ | 4182.000 | 72.66 | -8.57 | 81.23 | 72.91 | 31.71 | 35.43 | 3.47 | Peak | 256 | 100 | VERTICAL |
| 3 @ | 4622.000 | 74.68 | -6.55 | 81.23 | 74.23 | 32.12 | 35.67 | 4.00 | Peak | 270 | 100 | VERTICAL |

Note: Test distance: 3m, both vertical and horizontal polarization has been investigated, and vertical is the worse case.

 Report Format Version: 01
 Page No.
 : 73 of 80

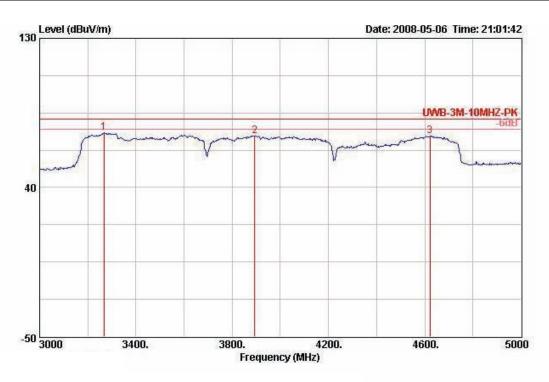
 FCC ID: TX2RTU7105WVGA
 Issued Date
 : Jun. 30, 2008





| Temperature | 26 ℃ | Humidity | 28% |
|---------------|-------------|----------------|-------------------|
| Test Engineer | Sam Chen | Configurations | All Band / Ant. 2 |

Vertical



| | Freq | Level | Over Limit | | | | Preamp Factor | | Remark | Table Pos | Ant Pos 1 | Pol/Phase |
|-----|----------|--------|---------------|--------|-------|-------|------------------|------|--------|--------------|--------------|-----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | ₫В | dB | - | deg | cm. | |
| 1 @ | 3268.000 | 72.88 | -8.35 | 81.23 | 74.62 | 29.82 | 34.94 | 3.39 | Peak | 255 | 103 | VERTICAL |
| 2 @ | 3894.000 | 71.06 | -10.17 | 81.23 | 71.40 | 31.35 | 35.04 | 3.35 | Peak | 255 | 103 1 | VERTICAL |
| 3 @ | 4622.000 | 71.11 | -10.12 | 81.23 | 70.66 | 32.12 | 35.67 | 4.00 | Peak | 255 | 103 | VERTICAL |
| | | | | | | | | | | | | |

Note: Test distance: 3m, both vertical and horizontal polarization has been investigated, and vertical is the worse case.



4.7. Labeling and Instruction Manual Requirements

UWB systems operating under the provisions of this section shall bear the following or similar statement in a conspicuous location on the device or in the instruction manual supplied with the device.

"This equipment may only be operated indoors. Operation outdoors is in violation of 47 U.S.C. 301 and could subject the operator to serious legal penalties."

In addition to the above requirements, a UWB device subject to certification shall be labeled as followed in a conspicuous location on the device:

"This device complied with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation."

- (1) Where a device is constructed in two or more sections connected by wires and marketed together, the statement specified directly above this section is required to be affixed only to the main control unit.
- (2) When the device is so small or for such use that it is not practicable to place the statement specified under paragraph (a) of this section on it, the information required by this paragraph shall be placed in a prominent location in the instruction manual or pamphlet supplied to the user or, alternatively, shall be placed on the container in which the device is marketed. However, the FCC identifier or the unique identifier, as appropriate, must be displayed on the device.

The users' manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Report Format Version: 01 Page No. : 75 of 80 FCC ID: TX2RTU7105WVGA Issued Date : Jun. 30, 2008



4.8. Antenna Requirements

4.8.1. Limit

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

4.8.2. Antenna Connector Construction

Please refer to section 3.1 in this test report, antenna connector complied with the requirements.

 Report Format Version: 01
 Page No. : 76 of 80

 FCC ID: TX2RTU7105WVGA
 Issued Date : Jun. 30, 2008



5. LIST OF MEASURING EQUIPMENTS

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Remark |
|-----------------------------|----------------|---------------|-------------|----------------------|---------------------|--------------------------|
| EMC Receiver | R&S | ESCS 30 | 100174 | 9kHz – 2.75GHz | Mar. 03, 2008 | Conduction (CO04-HY) |
| LISN | MessTec | NNB-2/16Z | 99079 | 9kHz – 30MHz | Mar. 31, 2008 | Conduction (CO04-HY) |
| LISN (Support Unit) | EMCO | 3810/2NM | 9703-1839 | 9kHz – 30MHz | Mar. 22, 2008 | Conduction (CO04-HY) |
| RF Cable-CON | UTIFLEX | 3102-26886-4 | CB049 | 9kHz – 30MHz | Apr. 20, 2008 | Conduction (CO04-HY) |
| ISN | SCHAFFNER | ISN T400 | 21653 | 9kHz –30MHz | Mar. 27, 2008 | Conduction (CO04-HY) |
| EMI Filter | LINDGREN | LRE-2030 | 2651 | < 450 Hz | N/A | Conduction (CO04-HY) |
| 3m Semi Anechoic Chamber | SIDT FRANKONIA | SAC-3M | 03CH03-HY | 30 MHz - 1 GHz 3m | Jun. 14, 2007 | Radiation (03CH03-HY) |
| 3m Semi Anechoic Chamber | SIDT FRANKONIA | SAC-3M | 03CH03-HY | 30 MHz - 1 GHz 3m | Jun. 13, 2008 | Radiation (03CH03-HY) |
| Amplifier | SCHAFFNER | COA9231A | 18667 | 9 kHz - 2 GHz | Jan. 14, 2008 | Radiation (03CH03-HY) |
| Amplifier | Agilent | 8449B | 3008A02120 | 1 GHz - 26.5 GHz | Jun. 07, 2007 | Radiation (03CH03-HY) |
| Amplifier | Agilent | 8449B | 3008A02120 | 1 GHz - 26.5 GHz | Jun. 06, 2008 | Radiation (03CH03-HY) |
| Amplifier | MITEQ | AMF-6F-260400 | 9121372 | 26.5 GHz - 40 GHz | Jan. 22, 2007* | Radiation (03CH03-HY) |
| Spectrum Analyzer | R&S | FSP40 | 100305 | 9 kHz - 40 GHz | Sep. 27, 2007 | Radiation (03CH03-HY) |
| Loop Antenna | R&S | HFH2-Z2 | 860004/001 | 9 kHz - 30 MHz | May 23, 2006* | Radiation (03CH03-HY) |
| Bilog Antenna | SCHAFFNER | CBL 6112D | 22237 | 30 MHz – 1 GHz | Jul. 21, 2007 | Radiation (03CH03-HY) |
| Horn Antenna | EMCO | 3115 | 6741 | 1GHz ~ 18GHz | Mar. 04, 2008 | Radiation (03CH03-HY) |
| Horn Antenna | SCHWARZBECK | BBHA9170 | BBHA9170154 | 15 GHz - 40 GHz | Jan.18, 2008 | Radiation (03CH03-HY) |
| RF Cable-R03m | Jye Bao | RG142 | CB021 | 30 MHz - 1 GHz | Dec. 03, 2007 | Radiation (03CH03-HY) |
| RF Cable-HIGH | SUHNER | SUCOFLEX 106 | 03CH03-HY | 1 GHz - 40 GHz | Dec. 03, 2007 | Radiation (03CH03-HY) |
| Turn Table | HD | DS 420 | 420/650/00 | 0 – 360 degree | N/A | Radiation (03CH03-HY) |
| Antenna Mast | HD | MA 240 | 240/560/00 | 1 m - 4 m | N/A | Radiation (03CH03-HY) |
| Spectrum Analyzer | R&S | FSP30 | 100023 | 9kHz ~ 30GHz | Jan. 10, 2008 | Conducted (TH01-HY) |
| Power Meter | R&S | NRVS | 100444 | DC ~ 40GHz | Jun. 27, 2007 | Conducted (TH01-HY) |
| Power Sensor | R&S | NRV-Z51 | 100458 | DC ~ 30GHz | Jun. 27, 2007 | Conducted (TH01-HY) |
| Power Sensor | R&S | NRV-Z32 | 100057 | 30MHz ~ 6GHz | Jun. 27, 2007 | Conducted (TH01-HY) |
| AC Power Source | HPC | HPA-500W | HPA-9100024 | AC 0 ~ 300V | May 04, 2007* | Conducted (TH01-HY) |

Report Format Version: 01 FCC ID: TX2RTU7105WVGA

Page No. : 77 of 80 Issued Date : Jun. 30, 2008



| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Remark |
|----------------------------|--------------|-----------|------------|-----------------|---------------------|------------------------|
| DC Power Source | G.W. | GPC-6030D | C671845 | DC 1V ~ 60V | Mar. 13, 2008 | Conducted (TH01-HY) |
| Temp. and Humidity Chamber | KSON | THS-C3L | 612 | N/A | Oct. 01, 2007 | Conducted (TH01-HY) |
| RF CABLE-1m | Jye Bao | RG142 | CB034-1m | 20MHz ~ 7GHz | Dec. 01, 2007 | Conducted (TH01-HY) |
| RF CABLE-2m | Jye Bao | RG142 | CB035-2m | 20MHz ~ 1GHz | Dec. 01, 2007 | Conducted (TH01-HY) |
| Vector Signal Generator | R&S | SMU200A | 102098 | 100kHz ~ 6GHz | Nov. 14, 2007 | Conducted (TH01-HY) |
| Signal Generator | R&S | SMR40 | 100116 | 10MHz ~ 40GHz | Mar. 10, 2008 | Conducted (TH01-HY) |

Note: Calibration Interval of instruments listed above is one year.

Note: Calibration Interval of instruments listed above is two year.

 Report Format Version: 01
 Page No.
 : 78 of 80

 FCC ID: TX2RTU7105WVGA
 Issued Date
 : Jun. 30, 2008



6. TEST LOCATION

| add Tel | : | 6FI., No. 106, Sec. 1, Shintai 5th Rd., Shijr City, Taipei, Taiwan 221, R.O.C. |
|------------|---|---|
| TEL | | |
| | : | 886-2-2696-2468 |
| FAX | : | 886-2-2696-2255 |
| ADD | : | No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. |
| TEL | : | 886-3-327-3456 |
| FAX | : | 886-3-318-0055 |
| ADD | : | No. 30-2, Dingfu Tsuen, Linkou Shiang, Taipei, Taiwan 244, R.O.C |
| TEL | : | 886-2-2601-1640 |
| FAX | : | 886-2-2601-1695 |
| ADD | : | No. 3, Lane 238, Kangle St., Neihu Chiu, Taipei, Taiwan 114, R.O.C. |
| TEL | : | 886-2-2631-4739 |
| FAX | : | 886-2-2631-9740 |
| ADD | : | 7FI., No. 758, Jungjeng Rd., Junghe City, Taipei, Taiwan 235, R.O.C. |
| TEL | : | 886-2-8227-2020 |
| FAX | : | 886-2-8227-2626 |
| ADD | : | 4FI., No. 339, Hsin Hu 2 nd Rd., Taipei 114, Taiwan, R.O.C. |
| TEL | : | 886-2-2794-8886 |
| FAX | : | 886-2-2794-9777 |
| ADD | : | No.8, Lane 728, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. |
| TEL | : | 886-3-656-9065 |
| FAX | : | 886-3-656-9085 |
| | TEL FAX ADD TEL | TEL : FAX : ADD : TEL : |

 Report Format Version: 01
 Page No. : 79 of 80

 FCC ID: TX2RTU7105WVGA
 Issued Date : Jun. 30, 2008



7. TAF CERTIFICATE OF ACCREDITATION



Certificate No.: L1190-070110

財團法人全國認證基金會 Taiwan Accreditation Foundation

Certificate of Accreditation

This is to certify that

Sporton International Inc.

EMC & Wireless Communications Laboratory

No.52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

is accredited in respect of laboratory

Accreditation Criteria : ISO/IEC 17025:2005

Accreditation Number : 1190

Originally Accredited : December 15, 2003

Effective Period : January 10, 2007 to January 09, 2010

Accredited Scope : Testing Field, see described in the Appendix

Accreditation Program for Designated Testing Laboratory

Specific Accreditation

Program

for Commodities Inspection

Accreditation Program for Telecommunication Equipment

Testing Laboratory

Jay-San Chen

President, Taiwan Accreditation Foundation

Date: January 10, 2007

P1, total 9 pages

The Appendix forms an integral part of this Certificate, which shall be invalid when used without the Appendix.

Report Format Version: 01 Page No. : 80 of 80 FCC ID: TX2RTU7105WVGA Issued Date : Jun. 30, 2008