

## 2.5 Test of Radiated Emission

### 2.5.1 Test Instruments

#### Below 1GHz & Above 1GHz

| Description                          | Manufacturer         | Model No.                | Serial No.   | Last Calibration Date | Next Calibration Date |
|--------------------------------------|----------------------|--------------------------|--------------|-----------------------|-----------------------|
| Site NSA                             | Chamost              | 966II Chamber            | N/A          | Dec. 30, 2012         | Dec. 29, 2013         |
| Site VSWR                            | Chamost              | 966II Chamber            | N/A          | Dec. 30, 2012         | Dec. 29, 2013         |
| EMI Test Receiver                    | ROHDE&SCHWARZ        | ESCI 7                   | 100760       | May 25, 2012          | May 24, 2013          |
| Spectrum Analyzer                    | ROHDE&SCHWARZ        | FSP 40                   | 100034       | May 24, 2012          | May 23, 2013          |
| RF-Amplifier<br>(0.1-1300MHz)        | HP                   | 8447D                    | 1937A02774   | Nov. 26, 2012         | Nov. 25, 2013         |
| RF-Amplifier<br>(1-26.5GHz)          | HP                   | 8449B                    | 3008A00578   | Nov. 26, 2012         | Nov. 25, 2013         |
| RF-Amplifier<br>(26-40GHz)           | EM Electronics Corp. | EM26400                  | N/A          | Jan. 29, 2013         | Jan. 28, 2014         |
| Coaxial Cables<br>(For 9kHz~3GHz)    | HUBER SUHNER         | SUCCOFLEX 104PEA         | N/A          | Nov. 26, 2012         | Nov. 25, 2013         |
| Coaxial Cables<br>(For 9kHz~26.5GHz) | HUBER SUHNER         | SUCCOFLEX 104PEA         | N/A          | Nov. 26, 2012         | Nov. 25, 2013         |
| Re Cables (966II)<br>(For 1~40GHz)   | HUBER SUHNER         | SUCCOFLEX 102            | 22962/2      | Nov. 26, 2012         | Nov. 25, 2013         |
| Re Cables (966II)<br>(For 1~40GHz)   | HUBER SUHNER         | SUCCOFLEX 102            | 23051/2      | Nov. 26, 2012         | Nov. 25, 2013         |
| Antenna Master                       | MF.                  | N/A                      | N/A          | N/A                   | N/A                   |
| Turn Table                           | MF.                  | N/A                      | N/A          | N/A                   | N/A                   |
| Controller                           | MF.                  | 3000                     | MF780208153  | N/A                   | N/A                   |
| Broadband Antenna                    | SCHWAZBECK           | VULB9168                 | VULB9168-298 | Nov. 01, 2012         | Oct. 31, 2013         |
| Horn Antenna<br>(For 1~18G)          | ETS-Lindgren         | 3117                     | 00135200     | Oct. 05, 2012         | Oct. 04, 2013         |
| Horn Antenna<br>(For 18~40G)         | SCHWAZBECK           | BBHA 9170                | BBHA9170184  | Jan. 28, 2013         | Jan. 27, 2014         |
| Software                             | Farad                | EZ-EMC-VER<br>2A1.1(USB) | N/A          | N/A                   | N/A                   |

### 2.5.2 Test Site

SGS Taiwan LTD. Electronics & Communication Laboratory  
NO.134,Wu Kung Road, New Taipei Industrial Park,Wuku District, New Taipei City,  
Taiwan 24803

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### 2.5.3 Operating Environment

Temperature : 26 degree C                      Humidity : 60 %RH  
Atmospheric Pressure : 996 mBar

### 2.5.4 Uncertainty of Radiated Emission

The SGS  $U_{lab}$  is 3.70dB.(For 30-1000MHz)

The SGS  $U_{lab}$  is 5.34dB.(For 1-18GHz)

The SGS  $U_{lab}$  is 5.63dB.(For 18-40GHz)

This  $U_{lab}$  uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$ .

### 2.5.5 Measurement level and Factor calculate method

Correct Factor = Antenna Factor + Cable loss- Amplifier Gain

Measurement Level = Reading Level + Correct Factor

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### 2.5.6 Measurement Data Below 1GHz

|                |                    |           |               |
|----------------|--------------------|-----------|---------------|
| Operation Mode | Config 1 Data Link | Test Date | May 23, 2013  |
| Tested By      | Eddy Cheng         | Pol       | Ver. and Hor. |

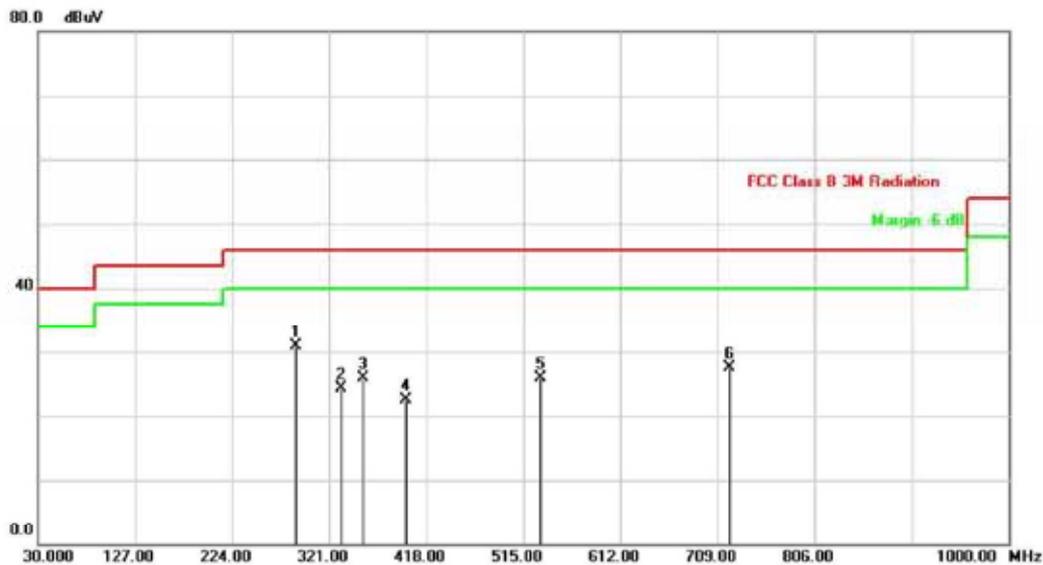


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 216.0000     | 36.73                    | -14.98                  | 21.75                    | 43.50         | -21.75     | QP       |         |
| 2   | *   | 333.0800     | 36.02                    | -10.75                  | 25.27                    | 46.00         | -20.73     | QP       |         |
| 3   |     | 384.0100     | 30.22                    | -9.32                   | 20.90                    | 46.00         | -25.10     | QP       |         |
| 4   |     | 516.9800     | 28.50                    | -6.29                   | 22.21                    | 46.00         | -23.79     | QP       |         |
| 5   |     | 549.2100     | 30.52                    | -5.83                   | 24.69                    | 46.00         | -21.31     | QP       |         |
| 6   |     | 615.7200     | 28.13                    | -4.30                   | 23.83                    | 46.00         | -22.17     | QP       |         |

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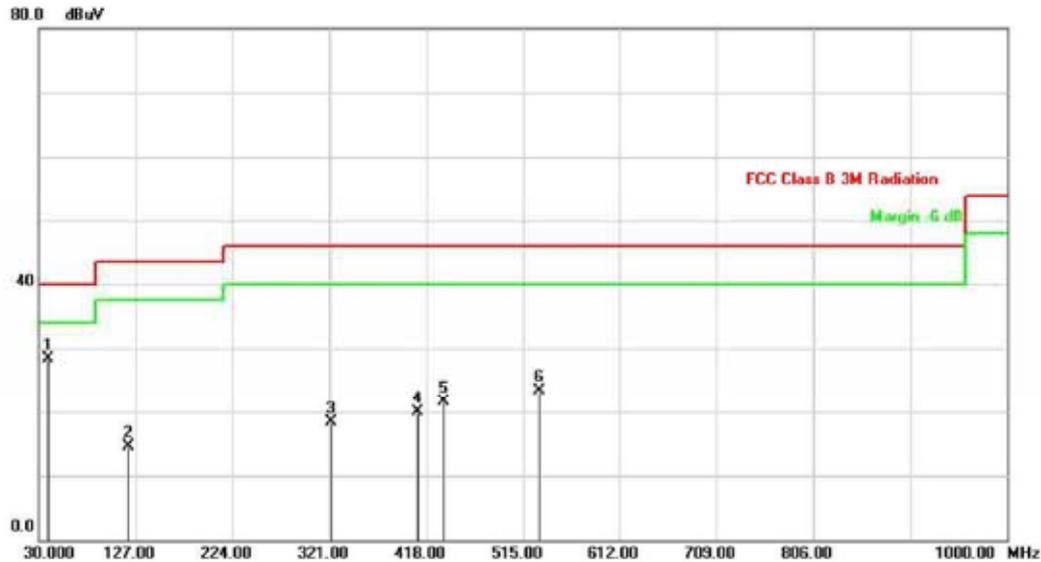
| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   | *   | 288.2200     | 42.81                    | -11.90                  | 30.91                    | 46.00         | -15.09     | QP       |         |
| 2   |     | 333.0800     | 35.12                    | -10.75                  | 24.37                    | 46.00         | -21.63     | QP       |         |
| 3   |     | 355.3900     | 36.16                    | -10.20                  | 25.96                    | 46.00         | -20.04     | QP       |         |
| 4   |     | 398.3000     | 31.35                    | -8.87                   | 22.48                    | 46.00         | -23.52     | QP       |         |
| 5   |     | 532.1800     | 31.90                    | -6.07                   | 25.83                    | 46.00         | -20.17     | QP       |         |
| 6   |     | 720.8000     | 30.03                    | -2.45                   | 27.58                    | 46.00         | -18.42     | QP       |         |

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|                |                         |           |               |
|----------------|-------------------------|-----------|---------------|
| Operation Mode | Config 2 Recording Mode | Test Date | May 23, 2013  |
| Tested By      | Eddy Cheng              | Pol       | Ver. and Hor. |

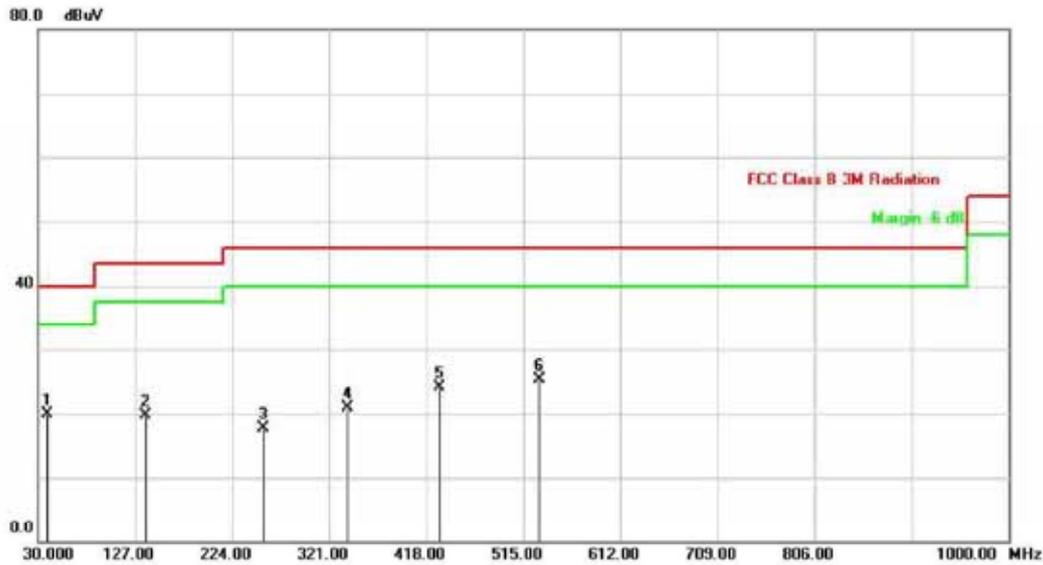


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   | *   | 39.5400      | 41.30                    | -12.93                  | 28.37                    | 40.00         | -11.63     | QP       |         |
| 2   |     | 119.9500     | 29.26                    | -14.68                  | 14.58                    | 43.50         | -28.92     | QP       |         |
| 3   |     | 323.1400     | 29.26                    | -10.98                  | 18.28                    | 46.00         | -27.72     | QP       |         |
| 4   |     | 409.7500     | 28.47                    | -8.56                   | 19.91                    | 46.00         | -26.09     | QP       |         |
| 5   |     | 435.3000     | 29.39                    | -7.83                   | 21.56                    | 46.00         | -24.44     | QP       |         |
| 6   |     | 531.3300     | 29.46                    | -6.08                   | 23.38                    | 46.00         | -22.62     | QP       |         |

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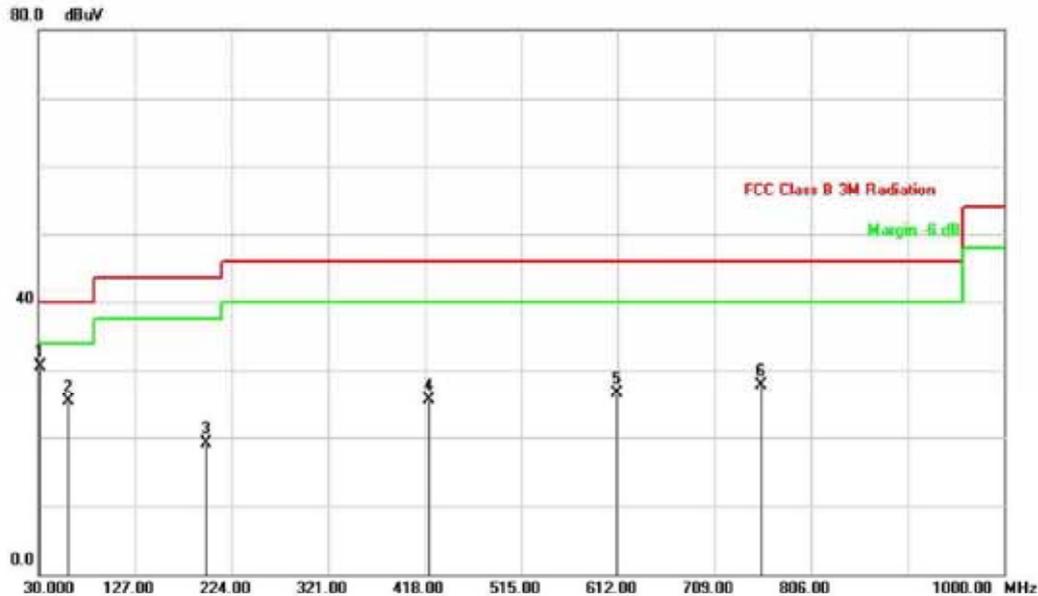
| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   | *   | 39.9800      | 32.74                    | -12.87                  | 19.87                    | 40.00         | -20.13     | QP       |         |
| 2   |     | 137.7900     | 32.92                    | -13.15                  | 19.77                    | 43.50         | -23.73     | QP       |         |
| 3   |     | 255.8500     | 30.90                    | -13.28                  | 17.62                    | 46.00         | -28.38     | QP       |         |
| 4   |     | 339.3500     | 31.42                    | -10.61                  | 20.81                    | 46.00         | -25.19     | QP       |         |
| 5   |     | 432.0600     | 32.02                    | -7.92                   | 24.10                    | 46.00         | -21.90     | QP       |         |
| 6   |     | 531.2500     | 31.49                    | -6.09                   | 25.40                    | 46.00         | -20.60     | QP       |         |

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|                |                              |           |               |
|----------------|------------------------------|-----------|---------------|
| Operation Mode | Config 2 Play Recording Mode | Test Date | Apr. 24, 2013 |
| Tested By      | Eddy Cheng                   | Pol       | Ver. and Hor. |

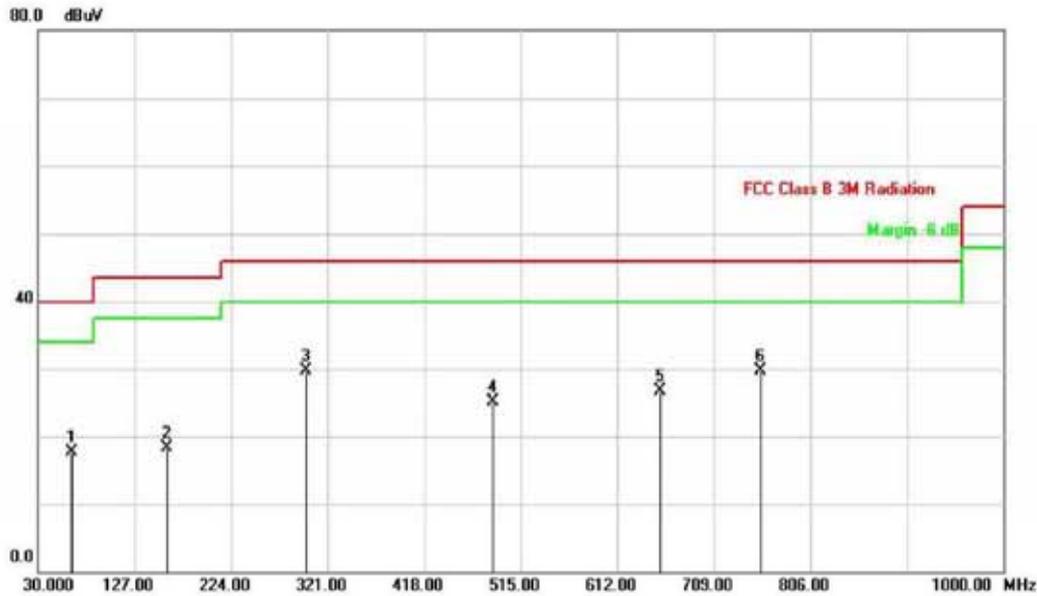


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   | *   | 31.7000      | 44.16                    | -13.56                  | 30.60                    | 40.00         | -9.40      | QP       |         |
| 2   |     | 60.5400      | 38.79                    | -13.58                  | 25.21                    | 40.00         | -14.79     | QP       |         |
| 3   |     | 199.2800     | 34.52                    | -15.41                  | 19.11                    | 43.50         | -24.39     | QP       |         |
| 4   |     | 422.6200     | 34.22                    | -8.75                   | 25.47                    | 46.00         | -20.53     | QP       |         |
| 5   |     | 611.9600     | 31.21                    | -4.70                   | 26.51                    | 46.00         | -19.49     | QP       |         |
| 6   |     | 756.3000     | 30.15                    | -2.49                   | 27.66                    | 46.00         | -18.34     | QP       |         |

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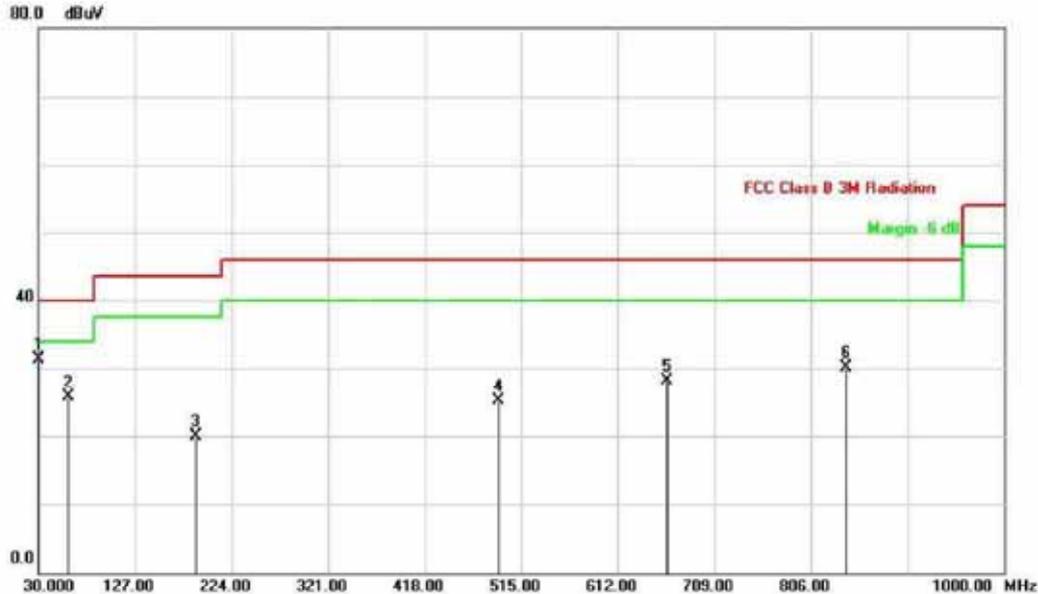
| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 63.7200      | 31.74                    | -14.07                  | 17.67                    | 40.00         | -22.33     | QP       |         |
| 2   |     | 160.3800     | 30.99                    | -12.76                  | 18.23                    | 43.50         | -25.27     | QP       |         |
| 3   |     | 299.1600     | 41.53                    | -11.78                  | 29.75                    | 46.00         | -16.25     | QP       |         |
| 4   |     | 486.9400     | 32.36                    | -7.27                   | 25.09                    | 46.00         | -20.91     | QP       |         |
| 5   |     | 655.8800     | 30.76                    | -3.99                   | 26.77                    | 46.00         | -19.23     | QP       |         |
| 6   | *   | 756.4000     | 32.29                    | -2.49                   | 29.80                    | 46.00         | -16.20     | QP       |         |

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|                |                   |           |               |
|----------------|-------------------|-----------|---------------|
| Operation Mode | Config 2 MP3 Mode | Test Date | Apr. 24, 2013 |
| Tested By      | Eddy Cheng        | Pol       | Ver. and Hor. |

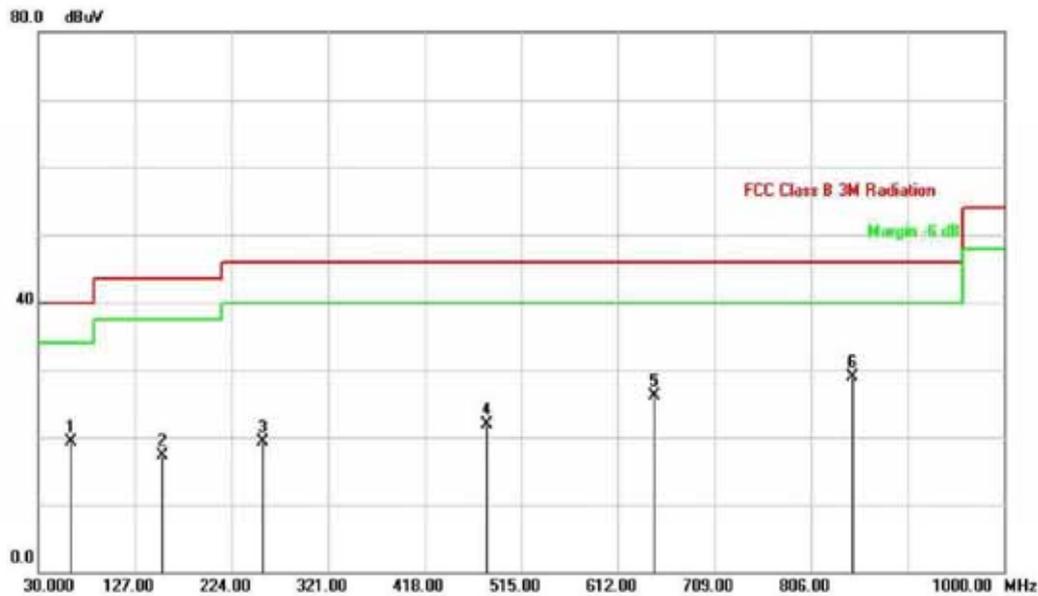


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   | *   | 31.1000      | 44.89                    | -13.59                  | 31.30                    | 40.00         | -8.70      | QP       |         |
| 2   |     | 60.2400      | 39.26                    | -13.52                  | 25.74                    | 40.00         | -14.26     | QP       |         |
| 3   |     | 188.3400     | 35.11                    | -15.18                  | 19.93                    | 43.50         | -23.57     | QP       |         |
| 4   |     | 492.5600     | 32.23                    | -7.17                   | 25.06                    | 46.00         | -20.94     | QP       |         |
| 5   |     | 661.7000     | 31.94                    | -3.90                   | 28.04                    | 46.00         | -17.96     | QP       |         |
| 6   |     | 841.6200     | 31.88                    | -1.75                   | 30.13                    | 46.00         | -15.87     | QP       |         |

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| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 62.5400      | 33.24                    | -13.89                  | 19.35                    | 40.00         | -20.65     | QP       |         |
| 2   |     | 155.3600     | 30.23                    | -12.83                  | 17.40                    | 43.50         | -26.10     | QP       |         |
| 3   |     | 255.3800     | 32.91                    | -13.55                  | 19.36                    | 46.00         | -26.64     | QP       |         |
| 4   |     | 481.1200     | 29.29                    | -7.38                   | 21.91                    | 46.00         | -24.09     | QP       |         |
| 5   |     | 648.5600     | 30.24                    | -4.08                   | 26.16                    | 46.00         | -19.84     | QP       |         |
| 6   | *   | 847.4400     | 30.66                    | -1.74                   | 28.92                    | 46.00         | -17.08     | QP       |         |

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**Above 1GHz – 1~18GHz**

|                |                         |           |               |
|----------------|-------------------------|-----------|---------------|
| Operation Mode | Config 1 Data Link Mode | Test Date | May 13, 2013  |
| Tested By      | Eddy Cheng              | Pol       | Ver. and Hor. |

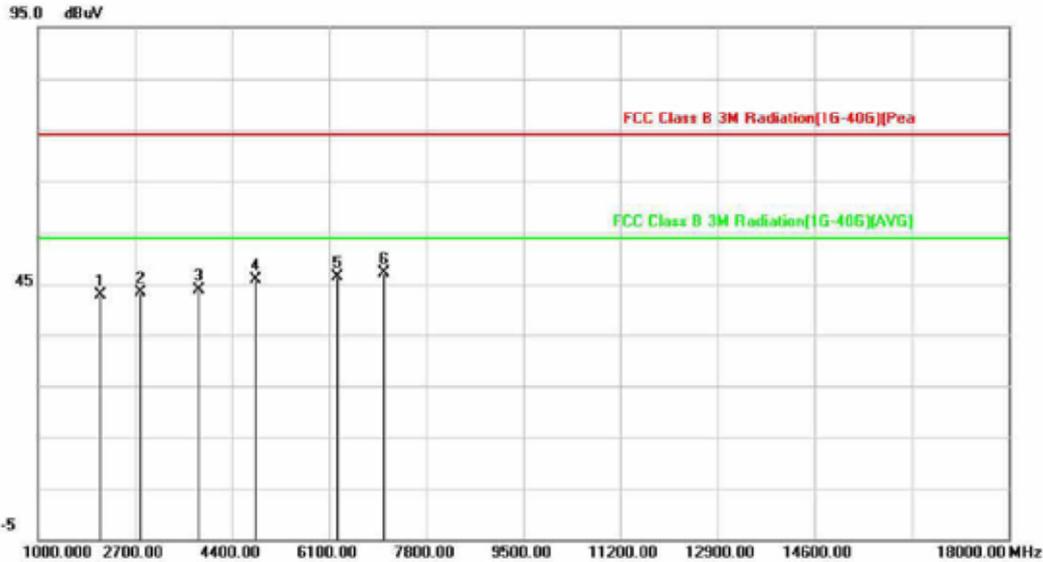


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 1204.000     | 46.20                    | -6.65                   | 39.55                    | 74.00         | -34.45     | peak     |         |
| 2   |     | 2156.000     | 43.65                    | -0.30                   | 43.35                    | 74.00         | -30.65     | peak     |         |
| 3   |     | 3006.000     | 43.01                    | 1.79                    | 44.80                    | 74.00         | -29.20     | peak     |         |
| 4   |     | 3788.000     | 40.79                    | 3.49                    | 44.28                    | 74.00         | -29.72     | peak     |         |
| 5   |     | 4604.000     | 39.68                    | 5.81                    | 45.49                    | 74.00         | -28.51     | peak     |         |
| 6   | *   | 5794.000     | 38.72                    | 7.21                    | 45.93                    | 74.00         | -28.07     | peak     |         |

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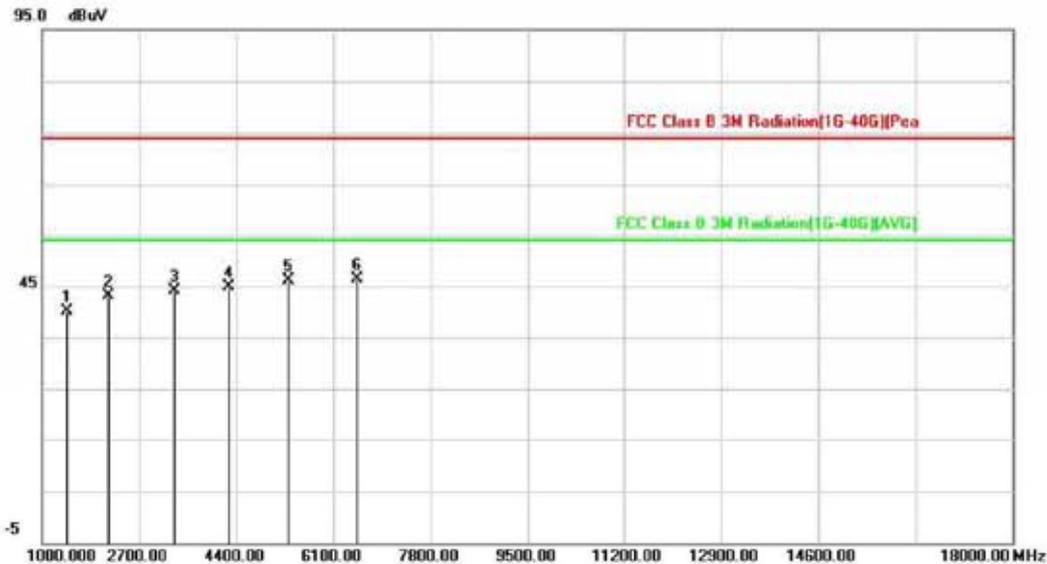
| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 2088.000     | 43.32                    | -0.44                   | 42.88                    | 74.00         | -31.12     | peak     |         |
| 2   |     | 2802.000     | 42.25                    | 1.23                    | 43.48                    | 74.00         | -30.52     | peak     |         |
| 3   |     | 3822.000     | 40.35                    | 3.63                    | 43.98                    | 74.00         | -30.02     | peak     |         |
| 4   |     | 4808.000     | 38.86                    | 7.05                    | 45.91                    | 74.00         | -28.09     | peak     |         |
| 5   |     | 6236.000     | 38.36                    | 8.09                    | 46.45                    | 74.00         | -27.55     | peak     |         |
| 6   | *   | 7052.000     | 38.27                    | 8.81                    | 47.08                    | 74.00         | -26.92     | peak     |         |

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|                |                         |           |               |
|----------------|-------------------------|-----------|---------------|
| Operation Mode | Config 2 Recording Mode | Test Date | May 13, 2013  |
| Tested By      | Eddy Cheng              | Pol       | Ver. and Hor. |



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measurement<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|---------------------|---------------|------------|----------|---------|
| 1   |     | 1442.000     | 45.55                    | -5.52                   | 40.03               | 74.00         | -33.97     | peak     |         |
| 2   |     | 2156.000     | 43.41                    | -0.30                   | 43.11               | 74.00         | -30.89     | peak     |         |
| 3   |     | 3312.000     | 41.96                    | 2.20                    | 44.16               | 74.00         | -29.84     | peak     |         |
| 4   |     | 4264.000     | 40.26                    | 4.74                    | 45.00               | 74.00         | -29.00     | peak     |         |
| 5   |     | 5318.000     | 38.83                    | 7.34                    | 46.17               | 74.00         | -27.83     | peak     |         |
| 6   | *   | 6508.000     | 37.53                    | 8.76                    | 46.29               | 74.00         | -27.71     | peak     |         |

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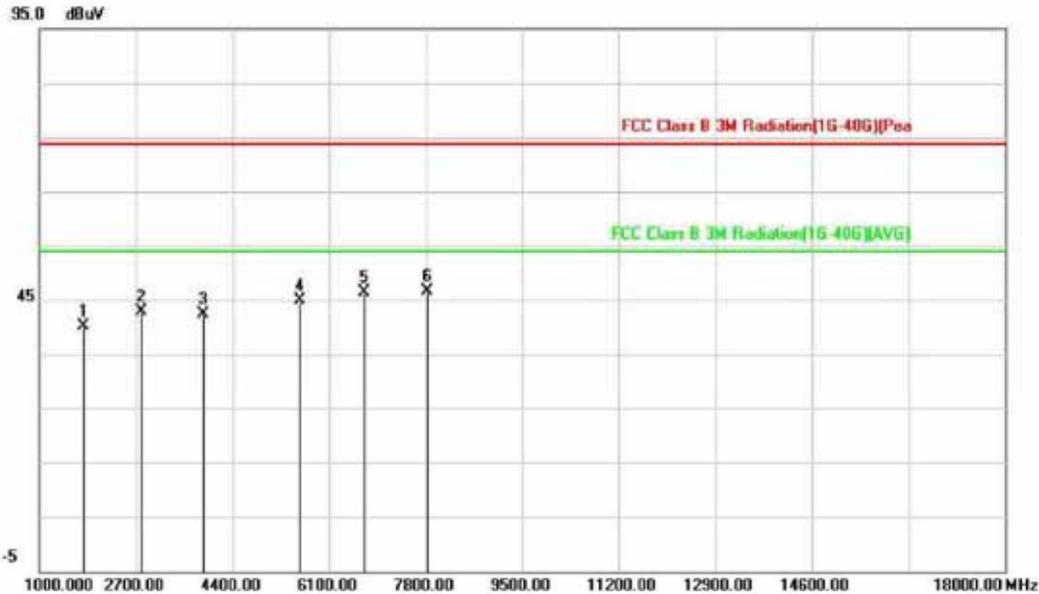
| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 1544.000     | 44.87                    | -4.84                   | 40.03                    | 74.00         | -33.97     | peak     |         |
| 2   |     | 1918.000     | 42.91                    | -1.36                   | 41.55                    | 74.00         | -32.45     | peak     |         |
| 3   |     | 2972.000     | 42.32                    | 1.71                    | 44.03                    | 74.00         | -29.97     | peak     |         |
| 4   |     | 4196.000     | 39.91                    | 4.63                    | 44.54                    | 74.00         | -29.46     | peak     |         |
| 5   |     | 5760.000     | 38.82                    | 7.17                    | 45.99                    | 74.00         | -28.01     | peak     |         |
| 6   | *   | 6780.000     | 38.61                    | 8.77                    | 47.38                    | 74.00         | -26.62     | peak     |         |

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|                |                              |           |               |
|----------------|------------------------------|-----------|---------------|
| Operation Mode | Config 2 Play Recording Mode | Test Date | Apr. 25, 2013 |
| Tested By      | Eddy Cheng                   | Pol       | Ver. and Hor. |

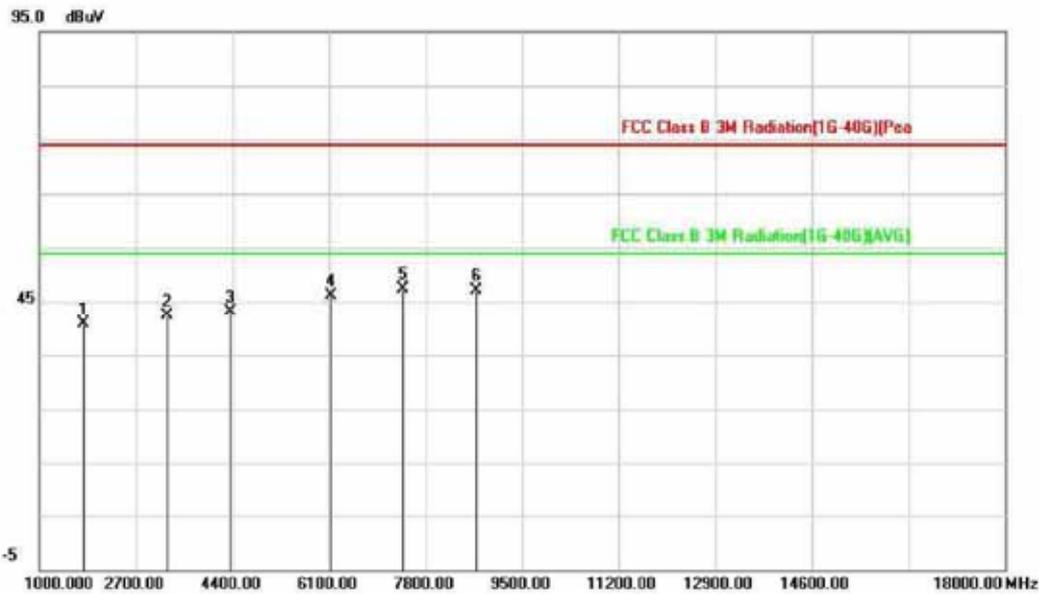


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 1782.000     | 42.70                    | -2.64                   | 40.06                    | 74.00         | -33.94     | peak     |         |
| 2   |     | 2802.000     | 41.60                    | 1.23                    | 42.83                    | 74.00         | -31.17     | peak     |         |
| 3   |     | 3890.000     | 38.56                    | 3.87                    | 42.43                    | 74.00         | -31.57     | peak     |         |
| 4   |     | 5590.000     | 38.01                    | 6.95                    | 44.96                    | 74.00         | -29.04     | peak     |         |
| 5   |     | 6712.000     | 37.60                    | 8.76                    | 46.36                    | 74.00         | -27.64     | peak     |         |
| 6   | *   | 7834.000     | 37.36                    | 9.34                    | 46.70                    | 74.00         | -27.30     | peak     |         |

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| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 1782.000     | 43.64                    | -2.64                   | 41.00                    | 74.00         | -33.00     | peak     |         |
| 2   |     | 3244.000     | 40.27                    | 2.11                    | 42.38                    | 74.00         | -31.62     | peak     |         |
| 3   |     | 4366.000     | 38.22                    | 4.94                    | 43.16                    | 74.00         | -30.84     | peak     |         |
| 4   |     | 6134.000     | 38.33                    | 7.84                    | 46.17                    | 74.00         | -27.83     | peak     |         |
| 5   | *   | 7392.000     | 38.35                    | 9.05                    | 47.40                    | 74.00         | -26.60     | peak     |         |
| 6   |     | 8684.000     | 36.76                    | 10.47                   | 47.23                    | 74.00         | -26.77     | peak     |         |

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|                |                   |           |               |
|----------------|-------------------|-----------|---------------|
| Operation Mode | Config 2 MP3 Mode | Test Date | Apr. 25, 2013 |
| Tested By      | Eddy Cheng        | Pol       | Ver. and Hor. |

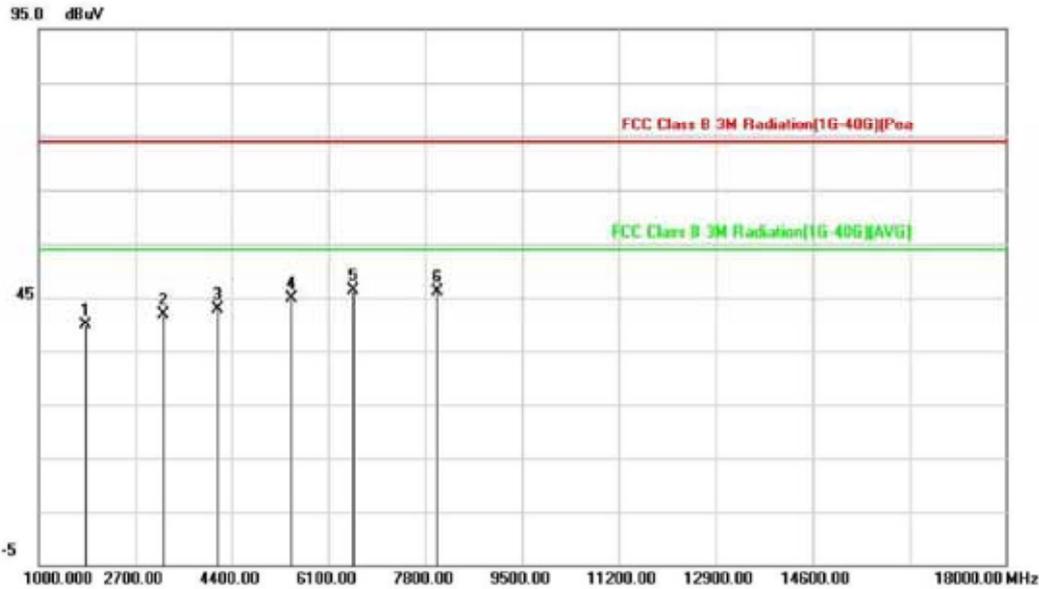


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measurement dBuV | Limit dBuV | Over dB | Detector | Comment |
|-----|-----|-----------|--------------------|-------------------|------------------|------------|---------|----------|---------|
| 1   |     | 1340.000  | 45.67              | -6.01             | 39.66            | 74.00      | -34.34  | peak     |         |
| 2   |     | 3176.000  | 40.23              | 2.03              | 42.26            | 74.00      | -31.74  | peak     |         |
| 3   |     | 4196.000  | 38.28              | 4.63              | 42.91            | 74.00      | -31.09  | peak     |         |
| 4   |     | 6202.000  | 38.34              | 8.00              | 46.34            | 74.00      | -27.66  | peak     |         |
| 5   | *   | 7732.000  | 38.04              | 9.28              | 47.32            | 74.00      | -26.68  | peak     |         |
| 6   |     | 8990.000  | 35.19              | 11.20             | 46.39            | 74.00      | -27.61  | peak     |         |

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| No. Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measurement dBuV | Limit dBuV | Over dB | Detector | Comment |
|---------|-----------|--------------------|-------------------|------------------|------------|---------|----------|---------|
| 1       | 1816.000  | 42.21              | -2.32             | 39.89            | 74.00      | -34.11  | peak     |         |
| 2       | 3210.000  | 39.91              | 2.06              | 41.97            | 74.00      | -32.03  | peak     |         |
| 3       | 4162.000  | 38.39              | 4.56              | 42.95            | 74.00      | -31.05  | peak     |         |
| 4       | 5454.000  | 37.80              | 6.96              | 44.76            | 74.00      | -29.24  | peak     |         |
| 5 *     | 6542.000  | 37.68              | 8.76              | 46.44            | 74.00      | -27.56  | peak     |         |
| 6       | 8004.000  | 36.73              | 9.44              | 46.17            | 74.00      | -27.83  | peak     |         |

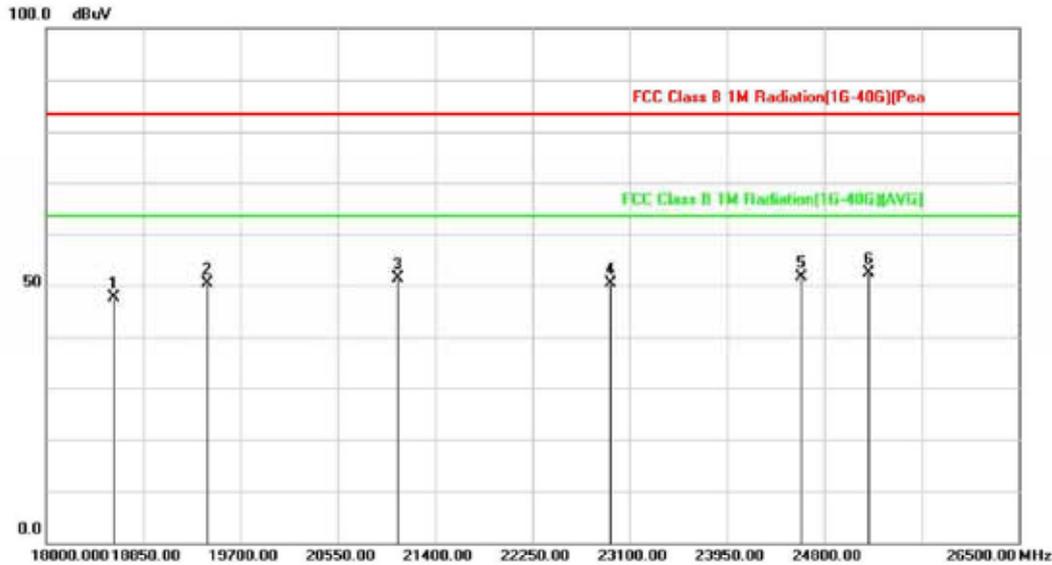
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18~26.5GHz

|                |                    |           |               |
|----------------|--------------------|-----------|---------------|
| Operation Mode | Config 1 Data Link | Test Date | May 13, 2013  |
| Tested By      | Eddy Cheng         | Pol       | Ver. and Hor. |

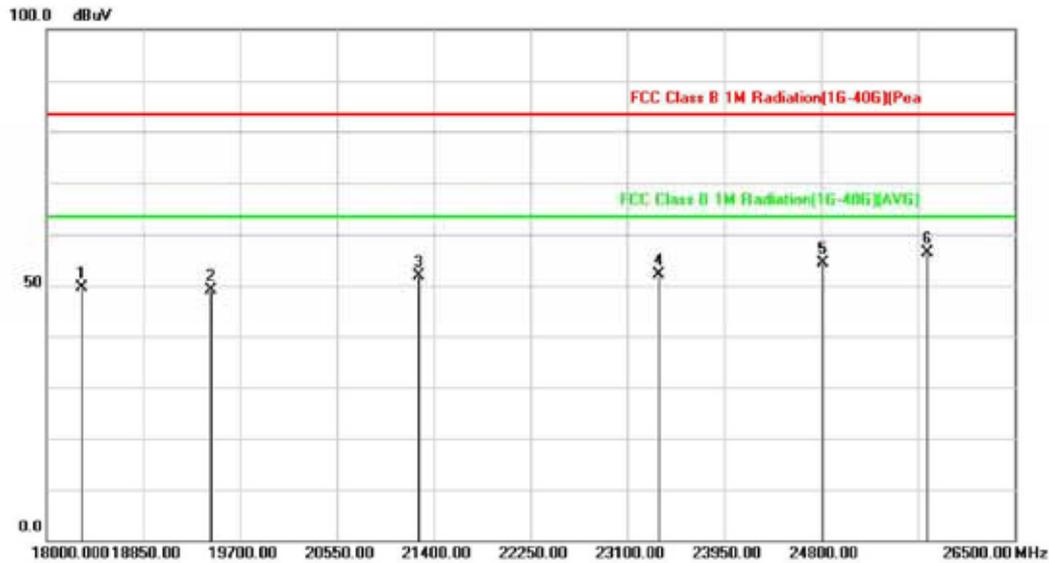


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 18595.00     | 59.95                    | -12.31                  | 47.64                    | 83.50         | -35.86     | peak     |         |
| 2   |     | 19411.00     | 61.80                    | -11.33                  | 50.47                    | 83.50         | -33.03     | peak     |         |
| 3   |     | 21077.00     | 63.05                    | -11.68                  | 51.37                    | 83.50         | -32.13     | peak     |         |
| 4   |     | 22930.00     | 61.32                    | -10.87                  | 50.45                    | 83.50         | -33.05     | peak     |         |
| 5   |     | 24596.00     | 61.40                    | -9.84                   | 51.56                    | 83.50         | -31.94     | peak     |         |
| 6   | *   | 25191.00     | 61.00                    | -8.71                   | 52.29                    | 83.50         | -31.21     | peak     |         |

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| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 18306.00     | 62.46                    | -12.74                  | 49.72                    | 83.50         | -33.78     | peak     |         |
| 2   |     | 19445.00     | 60.46                    | -11.30                  | 49.16                    | 83.50         | -34.34     | peak     |         |
| 3   |     | 21264.00     | 63.47                    | -11.57                  | 51.90                    | 83.50         | -31.60     | peak     |         |
| 4   |     | 23372.00     | 62.65                    | -10.52                  | 52.13                    | 83.50         | -31.37     | peak     |         |
| 5   |     | 24817.00     | 64.01                    | -9.67                   | 54.34                    | 83.50         | -29.16     | peak     |         |
| 6   | *   | 25735.00     | 64.34                    | -8.03                   | 56.31                    | 83.50         | -27.19     | peak     |         |

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|                |                         |           |               |
|----------------|-------------------------|-----------|---------------|
| Operation Mode | Config 2 Recording Mode | Test Date | May 13, 2013  |
| Tested By      | Eddy Cheng              | Pol       | Ver. and Hor. |

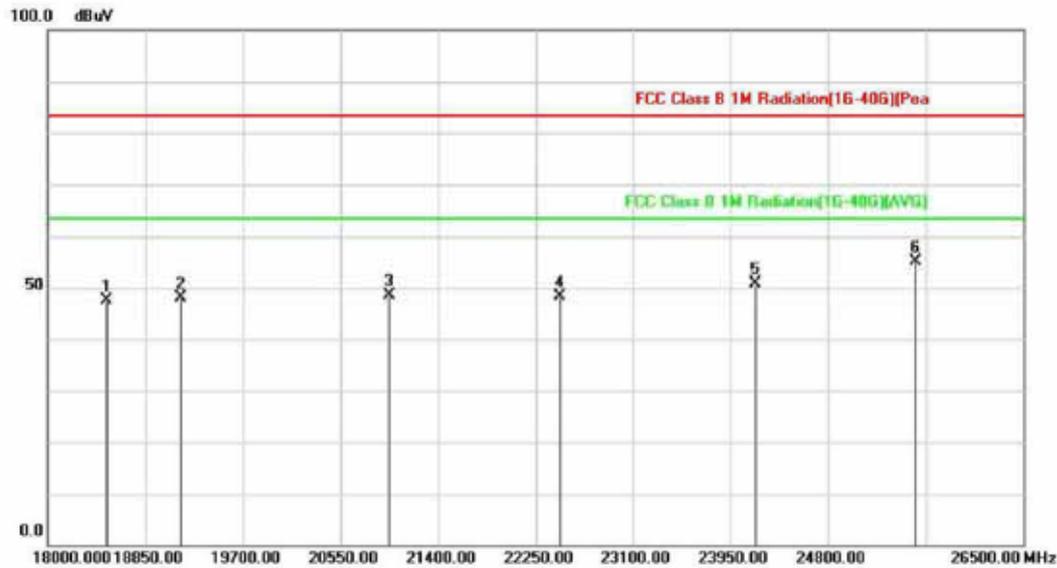


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 18493.00     | 61.82                    | -12.45                  | 49.37                    | 83.50         | -34.13     | peak     |         |
| 2   |     | 19462.00     | 61.83                    | -11.28                  | 50.55                    | 83.50         | -32.95     | peak     |         |
| 3   |     | 20533.00     | 60.68                    | -12.10                  | 48.58                    | 83.50         | -34.92     | peak     |         |
| 4   |     | 22437.00     | 63.07                    | -11.32                  | 51.75                    | 83.50         | -31.75     | peak     |         |
| 5   |     | 23797.00     | 63.94                    | -10.89                  | 53.05                    | 83.50         | -30.45     | peak     |         |
| 6   | *   | 25616.00     | 62.29                    | -7.70                   | 54.59                    | 83.50         | -28.91     | peak     |         |

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| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 18510.00     | 60.17                    | -12.43                  | 47.74                    | 83.50         | -35.76     | peak     |         |
| 2   |     | 19156.00     | 59.85                    | -11.61                  | 48.24                    | 83.50         | -35.26     | peak     |         |
| 3   |     | 20975.00     | 60.38                    | -11.74                  | 48.64                    | 83.50         | -34.86     | peak     |         |
| 4   |     | 22454.00     | 59.67                    | -11.32                  | 48.35                    | 83.50         | -35.15     | peak     |         |
| 5   |     | 24171.00     | 61.59                    | -10.76                  | 50.83                    | 83.50         | -32.67     | peak     |         |
| 6   | *   | 25565.00     | 62.67                    | -7.56                   | 55.11                    | 83.50         | -28.39     | peak     |         |

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|                |                              |           |               |
|----------------|------------------------------|-----------|---------------|
| Operation Mode | Config 2 Play Recording Mode | Test Date | Apr. 25, 2013 |
| Tested By      | Eddy Cheng                   | Pol       | Ver. and Hor. |



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 20295.00     | 64.05                    | -12.49                  | 51.56                    | 83.50         | -31.94     | peak     |         |
| 2   |     | 21876.00     | 63.10                    | -11.28                  | 51.82                    | 83.50         | -31.68     | peak     |         |
| 3   |     | 22743.00     | 62.61                    | -11.07                  | 51.54                    | 83.50         | -31.96     | peak     |         |
| 4   |     | 23831.00     | 64.22                    | -10.94                  | 53.28                    | 83.50         | -30.22     | peak     |         |
| 5   |     | 24834.00     | 62.53                    | -9.65                   | 52.88                    | 83.50         | -30.62     | peak     |         |
| 6   | *   | 26330.00     | 63.31                    | -9.28                   | 54.03                    | 83.50         | -29.47     | peak     |         |

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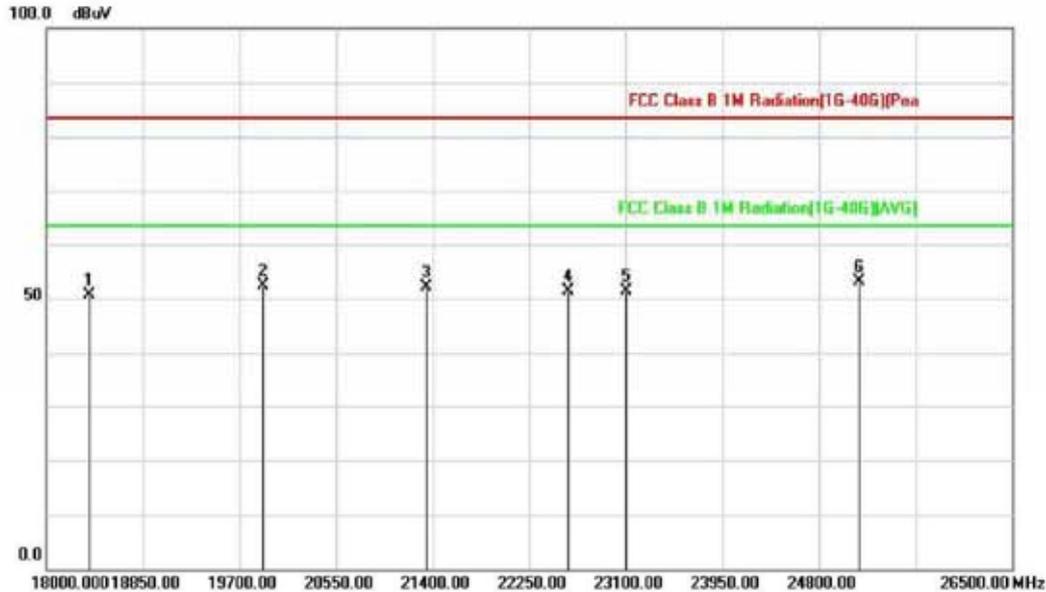
| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 18119.00     | 64.10                    | -13.01                  | 51.09                    | 83.50         | -32.41     | peak     |         |
| 2   |     | 19309.00     | 60.93                    | -11.44                  | 49.49                    | 83.50         | -34.01     | peak     |         |
| 3   |     | 21264.00     | 62.97                    | -11.57                  | 51.40                    | 83.50         | -32.10     | peak     |         |
| 4   |     | 22675.00     | 62.16                    | -11.14                  | 51.02                    | 83.50         | -32.48     | peak     |         |
| 5   |     | 24613.00     | 64.38                    | -9.83                   | 54.55                    | 83.50         | -28.95     | peak     |         |
| 6   | *   | 25599.00     | 64.31                    | -7.66                   | 56.65                    | 83.50         | -26.85     | peak     |         |

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|                |                   |           |               |
|----------------|-------------------|-----------|---------------|
| Operation Mode | Config 2 MP3 Mode | Test Date | Apr. 25, 2013 |
| Tested By      | Eddy Cheng        | Pol       | Ver. and Hor. |

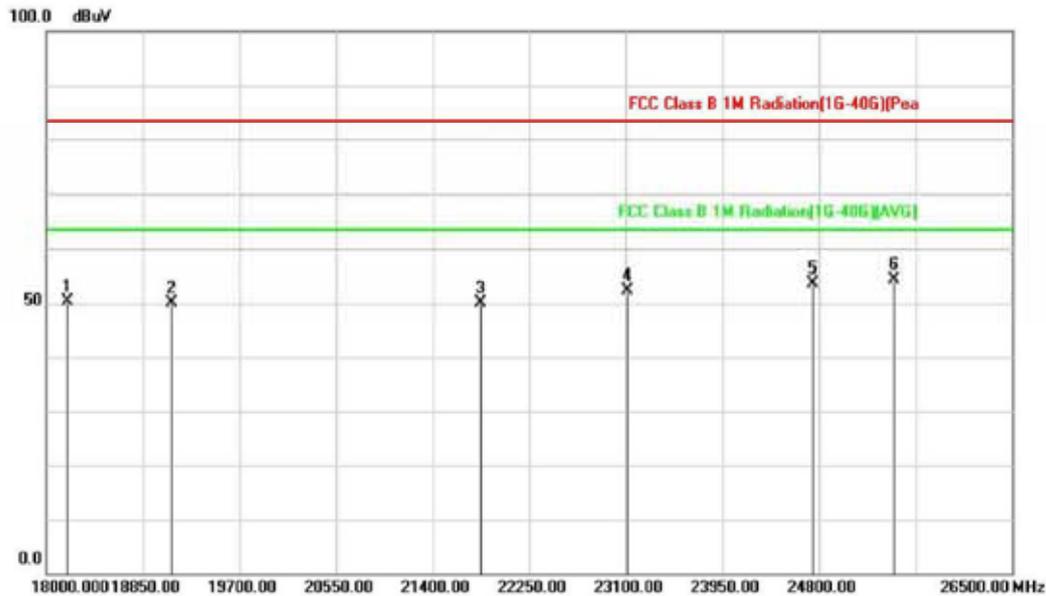


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 18374.00     | 63.21                    | -12.63                  | 50.58                    | 83.50         | -32.92     | peak     |         |
| 2   |     | 19904.00     | 65.16                    | -12.67                  | 52.49                    | 83.50         | -31.01     | peak     |         |
| 3   |     | 21349.00     | 63.57                    | -11.52                  | 52.05                    | 83.50         | -31.45     | peak     |         |
| 4   |     | 22590.00     | 62.54                    | -11.23                  | 51.31                    | 83.50         | -32.19     | peak     |         |
| 5   |     | 23100.00     | 62.21                    | -10.73                  | 51.48                    | 83.50         | -32.02     | peak     |         |
| 6   | *   | 25157.00     | 62.01                    | -8.85                   | 53.16                    | 83.50         | -30.34     | peak     |         |

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| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 18187.00     | 63.38                    | -12.91                  | 50.47                    | 83.50         | -33.03     | peak     |         |
| 2   |     | 19105.00     | 61.89                    | -11.67                  | 50.22                    | 83.50         | -33.28     | peak     |         |
| 3   |     | 21825.00     | 61.37                    | -11.30                  | 50.07                    | 83.50         | -33.43     | peak     |         |
| 4   |     | 23117.00     | 63.06                    | -10.71                  | 52.35                    | 83.50         | -31.15     | peak     |         |
| 5   |     | 24749.00     | 63.29                    | -9.72                   | 53.57                    | 83.50         | -29.93     | peak     |         |
| 6   | *   | 25463.00     | 61.90                    | -7.55                   | 54.35                    | 83.50         | -29.15     | peak     |         |

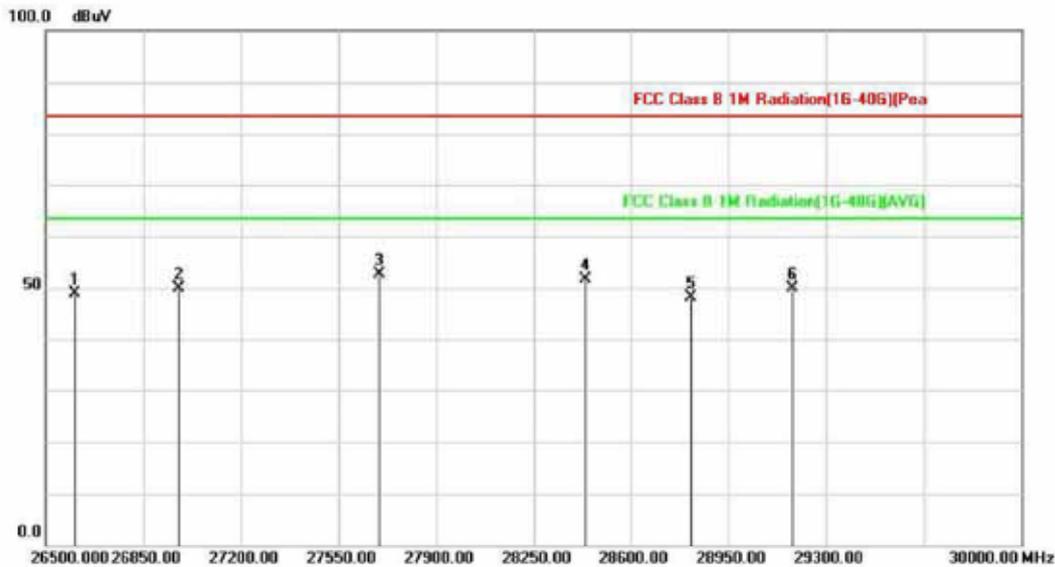
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**26.5~30GHz**

|                |                         |           |               |
|----------------|-------------------------|-----------|---------------|
| Operation Mode | Config 1 Data Link Mode | Test Date | May 13, 2013  |
| Tested By      | Eddy Cheng              | Pol       | Ver. and Hor. |

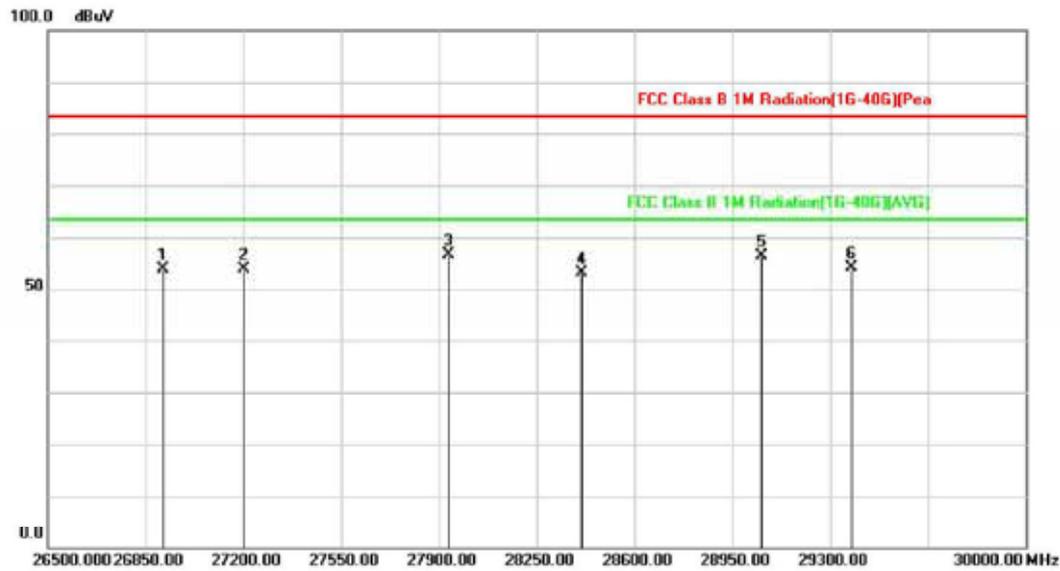


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 26605.00     | 58.56                    | -9.68                   | 48.88                    | 83.50         | -34.62     | peak     |         |
| 2   |     | 26976.00     | 59.94                    | -10.10                  | 49.84                    | 83.50         | -33.66     | peak     |         |
| 3   | *   | 27697.00     | 63.68                    | -11.03                  | 52.65                    | 83.50         | -30.85     | peak     |         |
| 4   |     | 28439.00     | 61.99                    | -10.44                  | 51.55                    | 83.50         | -31.95     | peak     |         |
| 5   |     | 28817.00     | 59.68                    | -11.53                  | 48.15                    | 83.50         | -35.35     | peak     |         |
| 6   |     | 29181.00     | 62.08                    | -12.25                  | 49.83                    | 83.50         | -33.67     | peak     |         |

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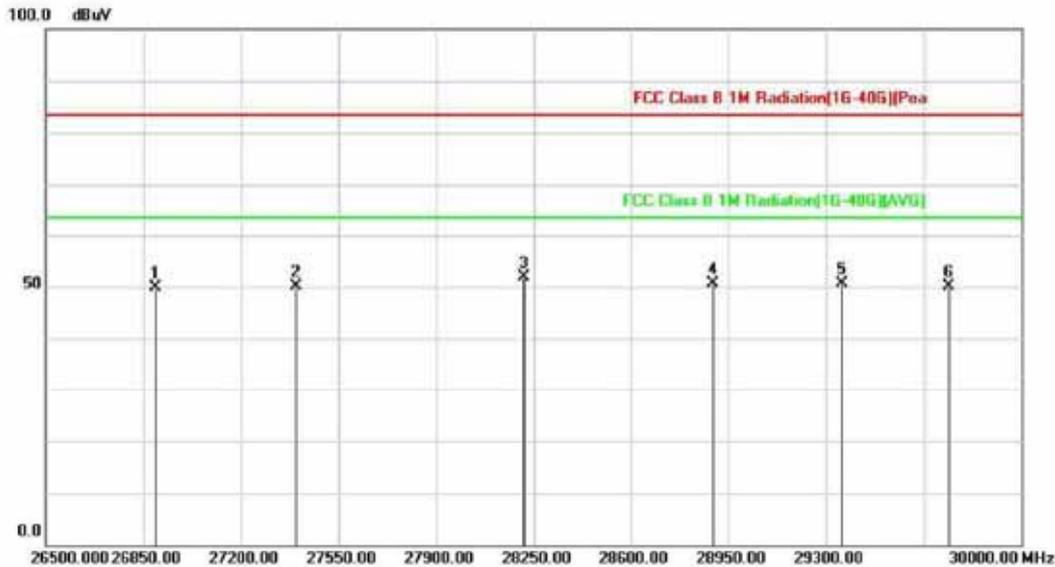
| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 26913.00     | 63.87                    | -10.03                  | 53.84                    | 83.50         | -29.66     | peak     |         |
| 2   |     | 27200.00     | 64.33                    | -10.42                  | 53.91                    | 83.50         | -29.59     | peak     |         |
| 3   | *   | 27935.00     | 67.82                    | -11.24                  | 56.58                    | 83.50         | -26.92     | peak     |         |
| 4   |     | 28411.00     | 63.56                    | -10.49                  | 53.07                    | 83.50         | -30.43     | peak     |         |
| 5   |     | 29055.00     | 68.51                    | -12.25                  | 56.26                    | 83.50         | -27.24     | peak     |         |
| 6   |     | 29377.00     | 66.46                    | -12.26                  | 54.20                    | 83.50         | -29.30     | peak     |         |

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|                |                         |           |               |
|----------------|-------------------------|-----------|---------------|
| Operation Mode | Config 2 Recording Mode | Test Date | May 13, 2013  |
| Tested By      | Eddy Cheng              | Pol       | Ver. and Hor. |

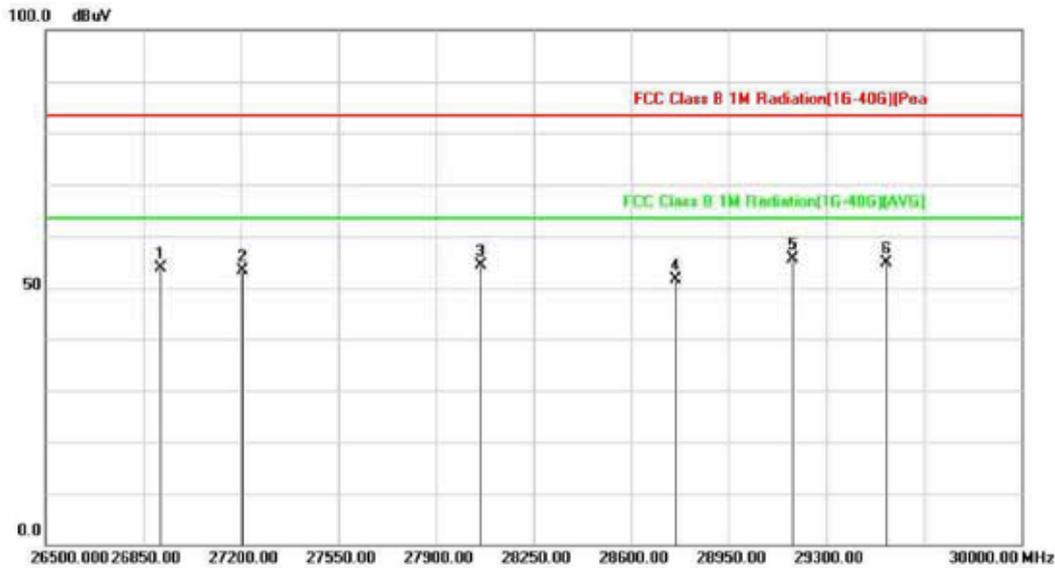


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 26892.00     | 59.99                    | -10.01                  | 49.98                    | 83.50         | -33.52     | peak     |         |
| 2   |     | 27396.00     | 60.93                    | -10.71                  | 50.22                    | 83.50         | -33.28     | peak     |         |
| 3   | *   | 28215.00     | 62.69                    | -10.87                  | 51.82                    | 83.50         | -31.68     | peak     |         |
| 4   |     | 28894.00     | 62.43                    | -11.83                  | 50.60                    | 83.50         | -32.90     | peak     |         |
| 5   |     | 29356.00     | 62.96                    | -12.26                  | 50.70                    | 83.50         | -32.80     | peak     |         |
| 6   |     | 29741.00     | 62.47                    | -12.27                  | 50.20                    | 83.50         | -33.30     | peak     |         |

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| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 26913.00     | 63.87                    | -10.03                  | 53.84                    | 83.50         | -29.66     | peak     |         |
| 2   |     | 27207.00     | 63.75                    | -10.43                  | 53.32                    | 83.50         | -30.18     | peak     |         |
| 3   |     | 28061.00     | 65.44                    | -11.17                  | 54.27                    | 83.50         | -29.23     | peak     |         |
| 4   |     | 28761.00     | 62.83                    | -11.32                  | 51.51                    | 83.50         | -31.99     | peak     |         |
| 5   | *   | 29181.00     | 67.78                    | -12.25                  | 55.53                    | 83.50         | -27.97     | peak     |         |
| 6   |     | 29517.00     | 67.19                    | -12.27                  | 54.92                    | 83.50         | -28.58     | peak     |         |

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|                |                              |           |               |
|----------------|------------------------------|-----------|---------------|
| Operation Mode | Config 2 Play Recording Mode | Test Date | Apr. 25, 2013 |
| Tested By      | Eddy Cheng                   | Pol       | Ver. and Hor. |

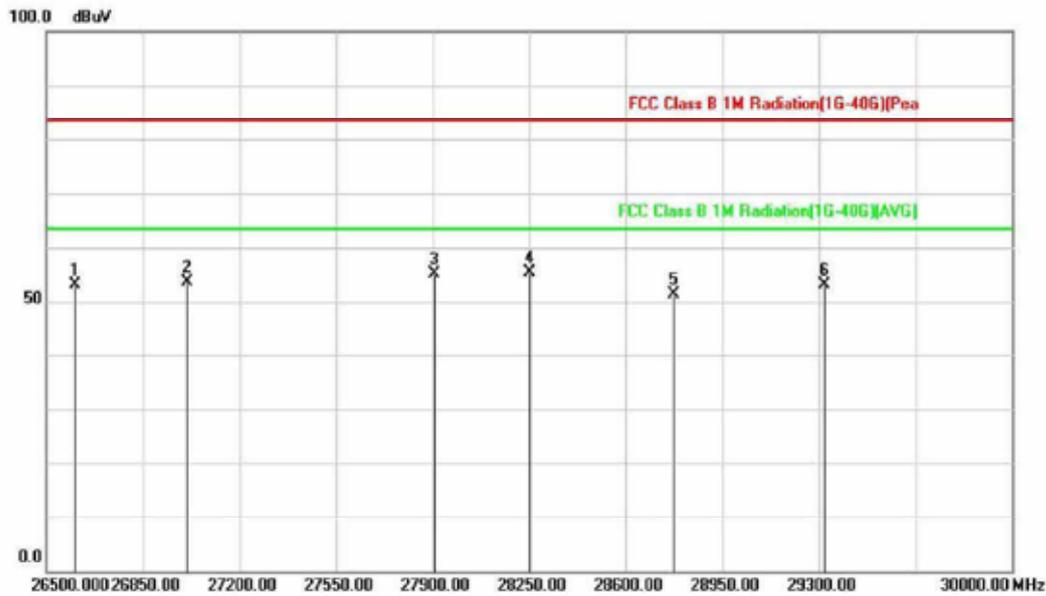


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 26647.00     | 57.22                    | -9.73                   | 47.49                    | 83.50         | -36.01     | peak     |         |
| 2   |     | 27004.00     | 60.58                    | -10.14                  | 50.44                    | 83.50         | -33.06     | peak     |         |
| 3   | *   | 27781.00     | 63.40                    | -11.10                  | 52.30                    | 83.50         | -31.20     | peak     |         |
| 4   |     | 28222.00     | 61.24                    | -10.85                  | 50.39                    | 83.50         | -33.11     | peak     |         |
| 5   |     | 28768.00     | 59.57                    | -11.35                  | 48.22                    | 83.50         | -35.28     | peak     |         |
| 6   |     | 29055.00     | 64.12                    | -12.25                  | 51.87                    | 83.50         | -31.63     | peak     |         |

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| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 26605.00     | 62.74                    | -9.68                   | 53.06                    | 83.50         | -30.44     | peak     |         |
| 2   |     | 27011.00     | 63.86                    | -10.14                  | 53.72                    | 83.50         | -29.78     | peak     |         |
| 3   |     | 27907.00     | 66.46                    | -11.21                  | 55.25                    | 83.50         | -28.25     | peak     |         |
| 4   | *   | 28250.00     | 66.09                    | -10.81                  | 55.28                    | 83.50         | -28.22     | peak     |         |
| 5   |     | 28775.00     | 62.65                    | -11.37                  | 51.28                    | 83.50         | -32.22     | peak     |         |
| 6   |     | 29321.00     | 65.40                    | -12.26                  | 53.14                    | 83.50         | -30.36     | peak     |         |

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|                |                   |           |               |
|----------------|-------------------|-----------|---------------|
| Operation Mode | Config 2 MP3 Mode | Test Date | Apr. 25, 2013 |
| Tested By      | Eddy Cheng        | Pol       | Ver. and Hor. |



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 26815.00     | 58.45                    | -9.92                   | 48.53                    | 83.50         | -34.97     | peak     |         |
| 2   |     | 27088.00     | 62.08                    | -10.26                  | 51.82                    | 83.50         | -31.68     | peak     |         |
| 3   | *   | 27725.00     | 63.60                    | -11.05                  | 52.55                    | 83.50         | -30.95     | peak     |         |
| 4   |     | 28075.00     | 60.17                    | -11.14                  | 49.03                    | 83.50         | -34.47     | peak     |         |
| 5   |     | 28593.00     | 60.36                    | -10.68                  | 49.68                    | 83.50         | -33.82     | peak     |         |
| 6   |     | 29041.00     | 63.81                    | -12.25                  | 51.56                    | 83.50         | -31.94     | peak     |         |

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| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 26647.00     | 63.35                    | -9.73                   | 53.62                    | 83.50         | -29.88     | peak     |         |
| 2   |     | 27165.00     | 64.63                    | -10.37                  | 54.26                    | 83.50         | -29.24     | peak     |         |
| 3   |     | 27655.00     | 66.00                    | -11.00                  | 55.00                    | 83.50         | -28.50     | peak     |         |
| 4   |     | 28243.00     | 66.33                    | -10.82                  | 55.51                    | 83.50         | -27.99     | peak     |         |
| 5   |     | 28593.00     | 61.78                    | -10.68                  | 51.10                    | 83.50         | -32.40     | peak     |         |
| 6   | *   | 29202.00     | 68.36                    | -12.25                  | 56.11                    | 83.50         | -27.39     | peak     |         |

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