# FCC PARTIAL TEST REPORT

**for**

## 47 CFR Part 22H, 24E

| | | |
|---|---|---|
| **Equipment** | : | **Notebook Computer** |
| **Trade Name** | : | **Acer** |
| **Model No.** | : | **LC1, TravelMate 6492 series** |
| **FCC ID** | : | **HLZLC13G** |
| **Tx Frequency Range** | : | **GSM850 : 824.2~848.8 MHz**<br>**PCS1900 : 1850.2~1909.8 MHz**<br>**WCDMA Band V : 826.4~846.6 MHz**<br>**WCDMA Band II : 1852.4~1907.6 MHz** |
| **Emission Designator** | : | **GSM : 300KGXW**<br>**EDGE : 300KG7W**<br>**WCDMA : 4M22F9W** |
| **Applicant** | : | **Acer Inc.**<br>8F, 88, Sec.1, Hsin Tai Wu Rd. Hsichih Taipei Hsien 221 Taiwan, R.O.C. |

- The test result refers exclusively to the test presented test model / sample.
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- **Certificate or Test Report must not be used by the applicant to claim the product in this test report endorsement by NVLAP or any agency of U.S. government.**
- The data shown in this test report were carried out on Aug. 23, 2007 at **Sporton International Inc. LAB.**
- Report No.: FG780813, Report Version: Rev. 01.

Jones Tsai
Manager

***SPORTON International Inc.***
6F, No.106, Sec. 1, Hsin Tai Wu Rd., Hsi Chih, Taipei Hsien, Taiwan, R.O.C.

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# History of this test report

Report Issue Date: Sep. 04, 2007

| Report No. | Description |
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# 1. General Information

## 1.1. Applicant

**Acer Inc.**

8F, 88, Sec.1, Hsin Tai Wu Rd. Hsichih Taipei Hsien 221 Taiwan, R.O.C.

## 1.2 Manufacturer

**Inventec Corporation**

Inventec Building, 66 Hou-Kang street Shih-Lin District, Taipei 111, Taiwan

## 1.3 Basic Description of Equipment under Test

| | | |
|---|---|---|
| **Equipment** | | Notebook Computer |
| **Trade Name** | | Acer |
| **Model No.** | | LC1, TravelMate 6492 series |
| **FCC ID** | | HLZLC13G |
| **AC Adapter** | **Brand Name** | LITEON |
| | **Model Name** | PA-1650-02 |
| | **Power Rating** | I/P: 100-240V, 50-60Hz, 1.6A ; O/P: 19V, 3.42A |
| | **AC Power Cord Type** | 1.6 meter shielded cable with ferrite core |
| **Battery** | **Brand Name** | Sony |
| | **Model Name** | BTP-B2J1 |
| | **Rating** | 10.8V, 4000mAh |
| | **Type** | Li-ion |

Remark: Above EUT's information was declared by manufacturer. Please refer to the specifications of manufacturer or User's Manual for more detailed features description.

## 1.4 Feature of Equipment under Test

| | |
|---|---|
| **DUT Type :** | Notebook Computer |
| **Trade Name :** | Acer |
| **Model Name :** | LC1, TravelMate 6492 series |
| **FCC ID :** | HLZLC13G |
| **Tx Frequency :** | GSM850 : 824 ~ 849 MHz<br>PCS1900 : 1850 ~1910 MHz<br>WCDMA Band V : 824 ~ 849 MHz<br>WCDMA Band II : 1850 ~ 1910 MHz |
| **Rx Frequency :** | GSM850 : 869 ~ 894 MHz<br>PCS1900 : 1930 ~ 1990 MHz<br>WCDMA Band V : 869 ~ 894 MHz<br>WCDMA Band II : 1930 ~ 1990 MHz |
| **Antenna Type** | Retractable Antenna |
| **HW Version** | 3.0 |
| **SW Version** | 3.0 |
| **FW Version** | 1.8.0 |
| **Digital Modulation Emission :** | GSM / GPRS : GMSK<br>EDGE : 8PSK<br>WCDMA / HSDPA : QPSK |
| **Type of Emission :** | GSM : 300KGXW<br>EDGE : 300KG7W<br>WCDMA : 4M22F9W |

## 1.5 Report Date

EUT Received : Aug. 08, 2007

Report Date : Sep. 04, 2007

# 2 Test Configuration of Equipment under Test

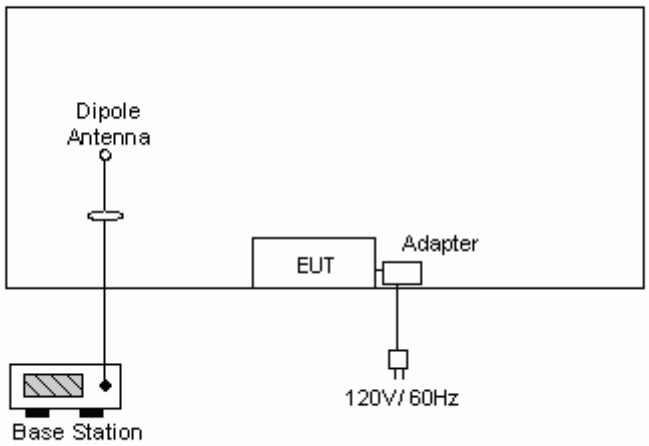
## 2.1 Test Manner

a. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range.
b. During all testings, EUT is in link mode with base station emulator at maximum power level.
c. Frequency range investigated: radiated emission 30 MHz to 9000 MHz for GSM850 and WCDMA Band V; 30MHz to 19000 MHz for PCS1900 and WCDMA Band II.

## 2.2 Test Mode

| Application | GSM850 | PCS1900 | WCDMA Band V | WCDMA Band II |
|---|---|---|---|---|
| Radiated Emission | ☒ Mode 1: GPRS Link | ☒ Mode 3: GPRS Link | ☒ Mode 5: WCDMA Link | ☒ Mode 7: WCDMA Link |
| | ☒ Mode 2: EDGE Link | ☒ Mode 4: EDGE Link | ☒ Mode 6: HSDPA Link | ☒ Mode 8: HSDPA Link |

## 2.3 Connection Diagram of Test System




## 2.4 Ancillary Equipment List

| Item | Equipment | Trade Name | Model No. | FCC ID | Serial No. |
|---|---|---|---|---|---|
| 1. | Base Station | R&S | CMU200 | N/A | 106656 |

# 3. General Information of Test Site

Test Site Location : No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park,
Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.
TEL : 886-3-327-3456
FAX : 886-3-318-0055
Test Site No : 03CH06-HY

The chamber meets the characteristics of ANSI C63.4-2003. This site is on file with the FCC.

## 3.1 Test Voltage

AC 120V / 60Hz

## 3.2 Test Compliance

47 CFR Part 22H, 24E, Part 2

## 3.3 Frequency Range

a. Radiation: from 30MHz to 9000 MHz for GSM850 and WCDMA Band V.
b. Radiation: from 30 MHz to 19000 MHz for PCS1900 and WCDMA Band II.

## 3.4 Test Distance

The test distance of radiated emission from antenna to EUT is 3 m.

# 4. Test Data and Test Result

## 4.1 List of Measurements and Examinations

| FCC Rule | DESCRIPTION OF TEST | Result | Section |
|---|---|---|---|
| §2.1053 | Field Strength of Spurious Radiation | Passed | 4.6 |

## 4.2 Field Strength of Spurious Radiation

Equivalent isotropic radiated Power Measurements by substitution method according to ANSI/TIA/EIA-603-C.

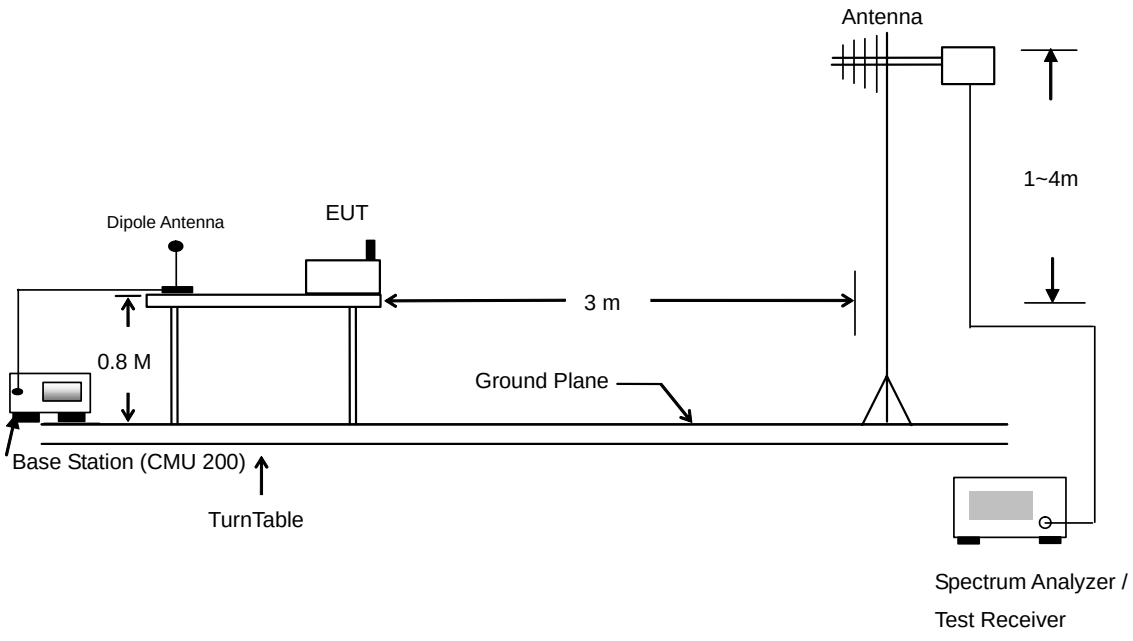
4.2.1 Measurement Instruments

As described in chapter 5 of this test report.

4.2.2 Test Procedure

1. The EUT was placed on a rotatable wooden table with 0.8 meter about ground.
2. The EUT was set 3 meters from the receiving antenna which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to reach the maximum spurious emission for both horizontal and vertical polarizations.
5. Taking the record of maximum spurious emission.
6. A Horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the recored of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. Emission level (dBm) = output power + substitution Gain.

4.2.3 Test Setup Layout



4.2.4 Test Result

- Test Mode : Mode 1

| GSM850 (GPRS) Radiated Spurious ERP | | | | | | | |
|---|---|---|---|---|---|---|---|
| H Polarization | | | | V Polarization | | | |
| Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) |
| | | | | | | | |
| 32.430 | -61.400 | -13 | -48.40 | 110.730 | -55.200 | -13 | -42.20 |
| 55.380 | -61.830 | -13 | -48.83 | 141.780 | -55.520 | -13 | -42.52 |
| 240.330 | -58.060 | -13 | -45.06 | 241.140 | -52.510 | -13 | -39.51 |
| 995.800 | -51.410 | -13 | -38.41 | 994.400 | -50.040 | -13 | -37.04 |
| 1328.000 | -50.700 | -13 | -37.70 | 1328.000 | -45.040 | -13 | -32.04 |
| 1674.000 | -49.350 | -13 | -36.35 | 1674.000 | -53.220 | -13 | -40.22 |
| 1988.000 | -58.770 | -13 | -45.77 | 1994.000 | -53.630 | -13 | -40.63 |
| 2508.000 | -48.800 | -13 | -35.80 | 2508.000 | -48.000 | -13 | -35.00 |

- Test Mode : Mode 2

| GSM850 (EDGE) Radiated Spurious ERP | | | | | | | |
|---|---|---|---|---|---|---|---|
| H Polarization | | | | V Polarization | | | |
| Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) |
| | | | | | | | |
| 30.000 | -65.490 | -13 | -52.49 | 55.380 | -54.230 | -13 | -41.23 |
| 241.140 | -57.710 | -13 | -44.71 | 94.530 | -52.830 | -13 | -39.83 |
| 265.980 | -62.180 | -13 | -49.18 | 241.140 | -51.880 | -13 | -38.88 |
| 997.900 | -56.350 | -13 | -43.35 | 997.900 | -54.580 | -13 | -41.58 |
| 1328.000 | -51.160 | -13 | -38.16 | 1328.000 | -45.480 | -13 | -32.48 |
| 1674.000 | -52.980 | -13 | -39.98 | 1674.000 | -54.090 | -13 | -41.09 |
| 2508.000 | -48.740 | -13 | -35.74 | 1994.000 | -53.640 | -13 | -40.64 |
| | | | | 2508.000 | -50.830 | -13 | -37.83 |

- Test Mode : Mode 3

| PCS1900 (GPRS) Radiated Spurious EIRP | | | | | | | |
|---|---|---|---|---|---|---|---|
| H Polarization | | | | V Polarization | | | |
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| | | | | | | | |
| 91.290 | -62.900 | -13 | -49.90 | 85.890 | -51.780 | -13 | -38.78 |
| 207.390 | -66.090 | -13 | -53.09 | 102.090 | -55.480 | -13 | -42.48 |
| 240.330 | -55.800 | -13 | -42.80 | 241.140 | -51.330 | -13 | -38.33 |
| 430.900 | -62.520 | -13 | -49.52 | 665.400 | -53.430 | -13 | -40.43 |
| 665.400 | -59.750 | -13 | -46.75 | 938.400 | -55.610 | -13 | -42.61 |
| 1000.000 | -53.440 | -13 | -40.44 | 995.800 | -51.530 | -13 | -38.53 |
| 1000.000 | -45.000 | -13 | -32.00 | 1328.000 | -42.050 | -13 | -29.05 |
| 1328.000 | -48.140 | -13 | -35.14 | 5638.000 | -48.730 | -13 | -35.73 |

- Test Mode : Mode 4

| PCS1900 (EDGE) Radiated Spurious EIRP | | | | | | | |
|---|---|---|---|---|---|---|---|
| H Polarization | | | | V Polarization | | | |
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| | | | | | | | |
| 30.000 | -62.780 | -13 | -49.78 | 78.330 | -56.650 | -13 | -43.65 |
| 240.330 | -56.040 | -13 | -43.04 | 101.280 | -54.950 | -13 | -41.95 |
| 274.890 | -65.490 | -13 | -52.49 | 241.680 | -51.420 | -13 | -38.42 |
| 390.300 | -60.220 | -13 | -47.22 | 665.400 | -52.960 | -13 | -39.96 |
| 665.400 | -59.750 | -13 | -46.75 | 931.400 | -54.060 | -13 | -41.06 |
| 995.800 | -53.030 | -13 | -40.03 | 997.900 | -51.350 | -13 | -38.35 |
| 1000.000 | -44.290 | -13 | -31.29 | 1328.000 | -41.250 | -13 | -28.25 |
| 5638.000 | -45.780 | -13 | -32.78 | 5638.000 | -49.930 | -13 | -36.93 |

- Test Mode : Mode 5

| WCDMA Band V Radiated Spurious ERP | | | | | | | |
|---|---|---|---|---|---|---|---|
| H Polarization | | | | V Polarization | | | |
| Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) |
| | | | | | | | |
| 36.480 | -61.960 | -13 | -48.96 | 98.580 | -58.210 | -13 | -45.21 |
| 241.140 | -58.310 | -13 | -45.31 | 143.130 | -56.500 | -13 | -43.50 |
| 265.440 | -63.370 | -13 | -50.37 | 241.140 | -52.120 | -13 | -39.12 |
| 997.900 | -56.250 | -13 | -43.25 | 1000.000 | -53.530 | -13 | -40.53 |
| 1328.000 | -50.670 | -13 | -37.67 | 1328.000 | -45.180 | -13 | -32.18 |
| 1664.000 | -56.480 | -13 | -43.48 | 1658.000 | -56.620 | -13 | -43.62 |
| 1988.000 | -59.270 | -13 | -46.27 | 1988.000 | -54.920 | -13 | -41.92 |
| 2394.000 | -59.840 | -13 | -46.84 | 2388.000 | -55.530 | -13 | -42.53 |

- Test Mode : Mode 6

| WCDMA Band V (HSDPA) Radiated Spurious ERP | | | | | | | |
|---|---|---|---|---|---|---|---|
| H Polarization | | | | V Polarization | | | |
| Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) |
| | | | | | | | |
| 54.030 | -62.900 | -13 | -49.90 | 92.640 | -50.720 | -13 | -37.72 |
| 241.140 | -58.530 | -13 | -45.53 | 142.590 | -51.830 | -13 | -38.83 |
| 265.440 | -64.260 | -13 | -51.26 | 241.140 | -52.330 | -13 | -39.33 |
| 997.900 | -56.120 | -13 | -43.12 | 995.800 | -53.590 | -13 | -40.59 |
| 1324.000 | -50.730 | -13 | -37.73 | 1324.000 | -45.590 | -13 | -32.59 |
| 1658.000 | -57.450 | -13 | -44.45 | 1658.000 | -54.480 | -13 | -41.48 |
| 1994.000 | -60.000 | -13 | -47.00 | 1994.000 | -54.570 | -13 | -41.57 |
| 2394.000 | -58.070 | -13 | -45.07 | 2388.000 | -54.090 | -13 | -41.09 |

- Test Mode : Mode 7

| WCDMA Band II Radiated Spurious EIRP | | | | | | | |
|---|---|---|---|---|---|---|---|
| H Polarization | | | | V Polarization | | | |
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| | | | | | | | |
| 30.000 | -63.880 | -13 | -50.88 | 103.980 | -56.540 | -13 | -43.54 |
| 206.040 | -65.330 | -13 | -52.33 | 142.590 | -58.930 | -13 | -45.93 |
| 241.140 | -56.130 | -13 | -43.13 | 241.140 | -51.080 | -13 | -38.08 |
| 397.300 | -61.580 | -13 | -48.58 | 397.300 | -57.460 | -13 | -44.46 |
| 665.400 | -59.840 | -13 | -46.84 | 665.400 | -53.720 | -13 | -40.72 |
| 997.900 | -53.030 | -13 | -40.03 | 995.800 | -52.140 | -13 | -39.14 |
| 1000.000 | -46.220 | -13 | -33.22 | 1328.000 | -41.580 | -13 | -28.58 |
| 1328.000 | -48.290 | -13 | -35.29 | 3758.000 | -47.380 | -13 | -34.38 |
| 3764.000 | -37.160 | -13 | -24.16 | | | | |

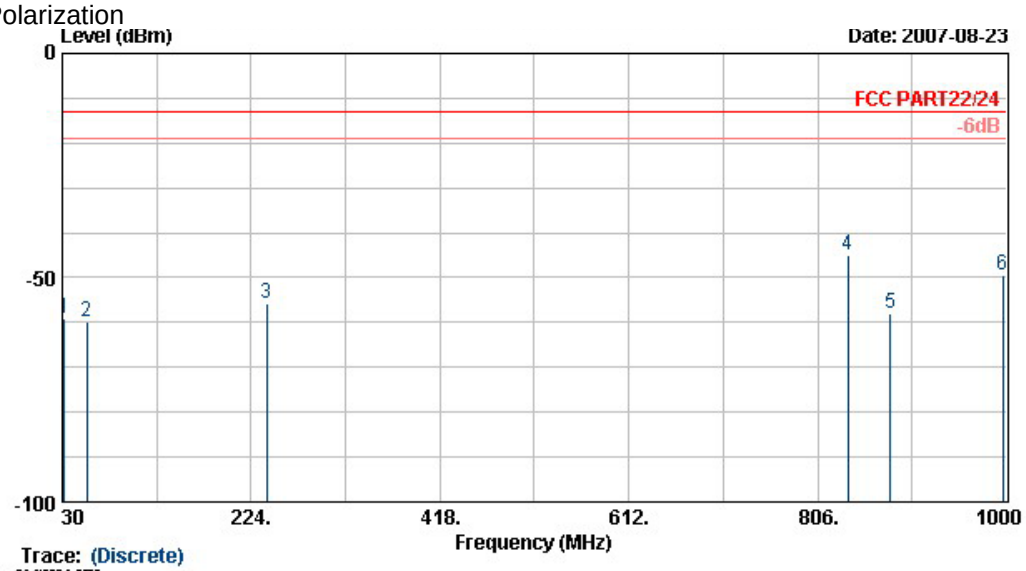
- Test Mode : Mode 8

| WCDMA Band II (HSDPA) Radiated Spurious EIRP | | | | | | | |
|---|---|---|---|---|---|---|---|
| H Polarization | | | | V Polarization | | | |
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| | | | | | | | |
| 30.000 | -57.970 | -13 | -44.97 | 144.480 | -57.770 | -13 | -44.77 |
| 216.030 | -61.680 | -13 | -48.68 | 192.540 | -57.530 | -13 | -44.53 |
| 241.140 | -56.590 | -13 | -43.59 | 241.140 | -51.430 | -13 | -38.43 |
| 327.300 | -63.050 | -13 | -50.05 | 663.300 | -54.280 | -13 | -41.28 |
| 665.400 | -61.320 | -13 | -48.32 | 831.300 | -56.730 | -13 | -43.73 |
| 997.900 | -54.170 | -13 | -41.17 | 997.900 | -51.920 | -13 | -38.92 |
| 1328.000 | -47.750 | -13 | -34.75 | 1328.000 | -41.480 | -13 | -28.48 |
| 3758.000 | -40.660 | -13 | -27.66 | 3758.000 | -41.570 | -13 | -28.57 |
| 5638.000 | -51.080 | -13 | -38.08 | | | | |

4.2.5 Test Data

4.2.5.1 Mode 1

Horizontal Polarization



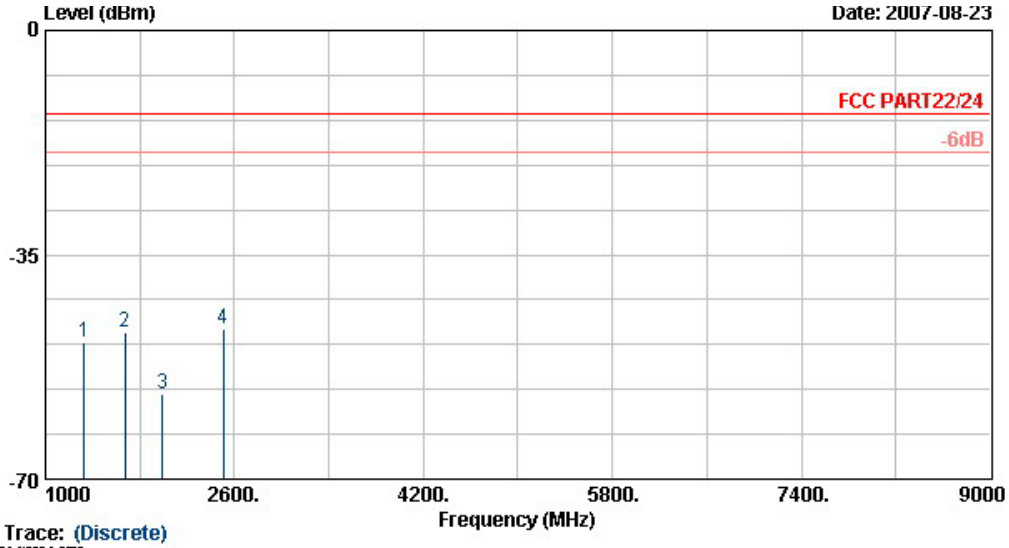

Trace: (Discrete)

Site : 03CH06-HY
Condition : LF-SPURIOUS HORIZONTAL
EUT : Notebook
Power : 120Vac 60Hz
Model : FG780813
Mode : GPRS Link + Adaptor

| | Freq | Level | Over Limit | Limit Line | Read Level | Factor | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBm | dB | dBm | dBm | dB | | |
| 1 | 32.4 | -59.25 | -46.25 | -13.00 | -57.79 | -1.47 | Peak | HORIZONTAL |
| 2 | 55.4 | -59.68 | -46.68 | -13.00 | -47.27 | -12.41 | Peak | HORIZONTAL |
| 3 | 240.3 | -55.91 | -42.91 | -13.00 | -43.92 | -11.99 | Peak | HORIZONTAL |
| 4 | 836.9 | -44.80 | | | -43.47 | -1.33 | Peak | HORIZONTAL |
| 5 | 880.3 | -58.02 | | | -57.11 | -0.91 | Peak | HORIZONTAL |
| 6 | 995.8 | -49.26 | -36.26 | -13.00 | -49.46 | 0.20 | Peak | HORIZONTAL |

Remark:

1. #4: MS Signal
2. #5: BS Signal

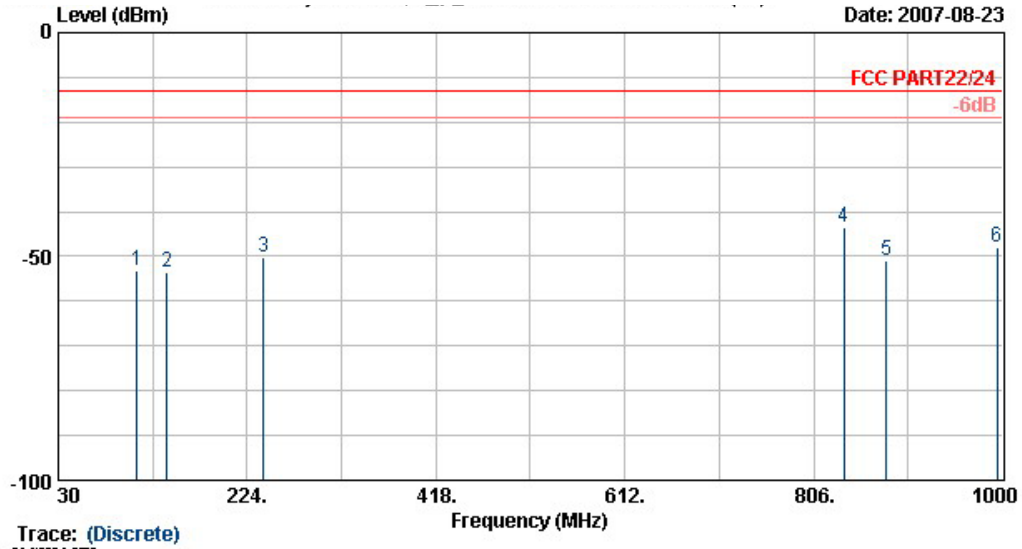



Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : Notebook
Power : 120Vac 60Hz
Model : FG780813
Mode : GPRS Link + Adaptor

| | Freq | Level | Over Limit | Limit Line | Read Level | Factor | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBm | dB | dBm | dBm | dB | | |
| 1 | 1328.0 | -48.55 | -35.55 | -13.00 | -49.51 | 0.96 | Peak | HORIZONTAL |
| 2 | 1674.0 | -47.20 | -34.20 | -13.00 | -47.42 | 0.22 | Peak | HORIZONTAL |
| 3 | 1988.0 | -56.62 | -43.62 | -13.00 | -55.34 | -1.28 | Peak | HORIZONTAL |
| 4 | 2508.0 | -46.65 | -33.65 | -13.00 | -47.85 | 1.20 | Peak | HORIZONTAL |

Vertical Polarization

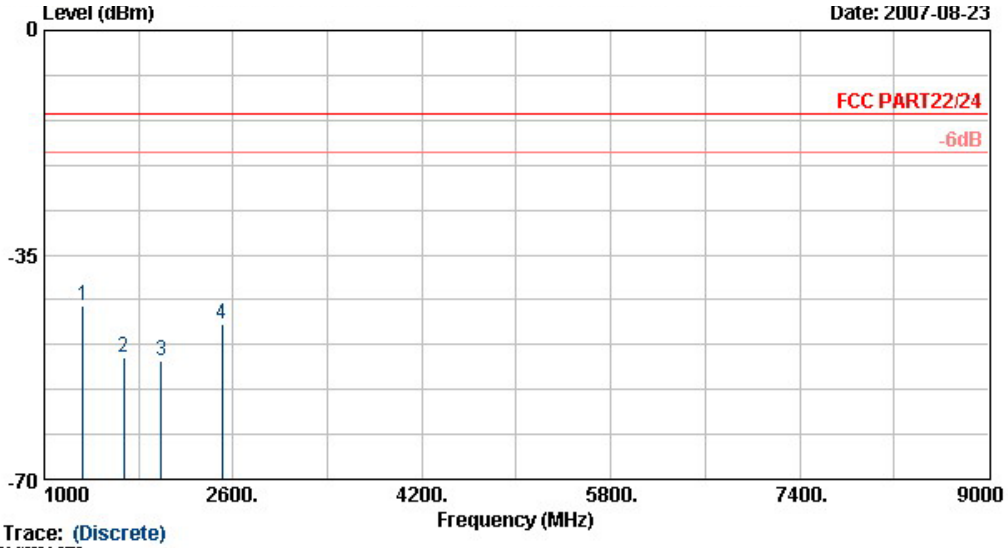



Site : 03CH06-HY
Condition : LF-SPURIOUS VERTICAL
EUT : Notebook
Power : 120Vac 60Hz
Model : FG780813
Mode : GPRS Link + Adaptor

| | Freq | Level | Over Limit | Limit Line | Read Level | Factor | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBm | dB | dBm | dBm | dB | | |
| 1 | 110.7 | -53.05 | -40.05 | -13.00 | -45.27 | -7.79 | Peak | VERTICAL |
| 2 | 141.8 | -53.37 | -40.37 | -13.00 | -45.30 | -8.07 | Peak | VERTICAL |
| 3 | 241.1 | -50.36 | -37.36 | -13.00 | -42.66 | -7.70 | Peak | VERTICAL |
| 4 | 836.9 | -43.48 | | | -44.85 | 1.36 | Peak | VERTICAL |
| 5 | 880.3 | -50.92 | | | -52.63 | 1.71 | Peak | VERTICAL |
| 6 | 994.4 | -47.89 | -34.89 | -13.00 | -50.50 | 2.61 | Peak | VERTICAL |

Remark:

1. #4: MS Signal
2. #5: BS Signal




Trace: (Discrete)

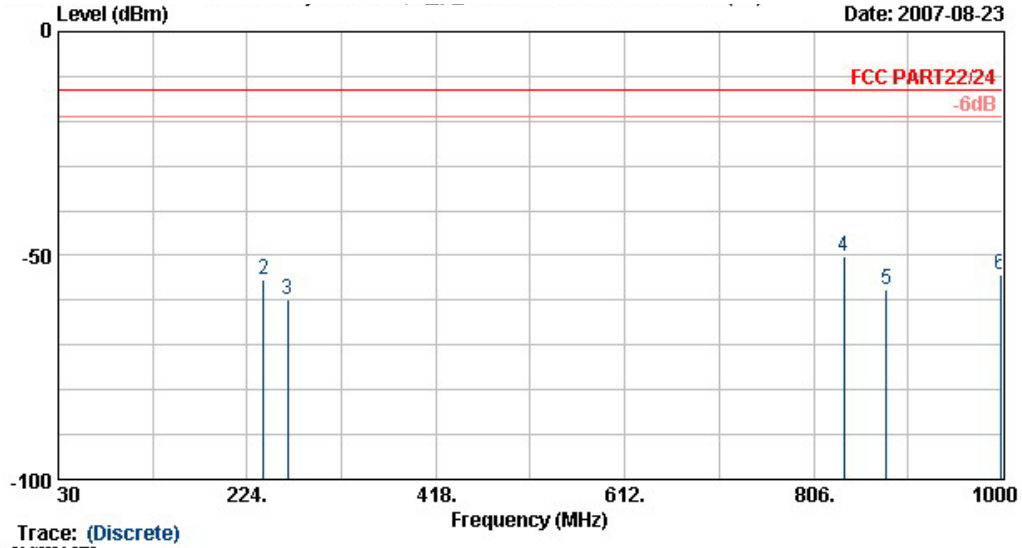
Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : Notebook
Power : 120Vac 60Hz
Model : FG780813
Mode : GPRS Link + Adaptor

| | Freq | Level | Over Limit | Limit Line | Read Level | Factor | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBm | dB | dBm | dBm | dB | | |
| 1 @ | 1328.0 | -42.89 | -29.89 | -13.00 | -42.09 | -0.80 | Peak | VERTICAL |
| 2 | 1674.0 | -51.07 | -38.07 | -13.00 | -50.59 | -0.48 | Peak | VERTICAL |
| 3 | 1994.0 | -51.48 | -38.48 | -13.00 | -50.79 | -0.69 | Peak | VERTICAL |
| 4 | 2508.0 | -45.85 | -32.85 | -13.00 | -48.12 | 2.27 | Peak | VERTICAL |

Remark：There is no more obvious emission except the listings above.

4.2.5.2 Mode 2

Horizontal Polarization



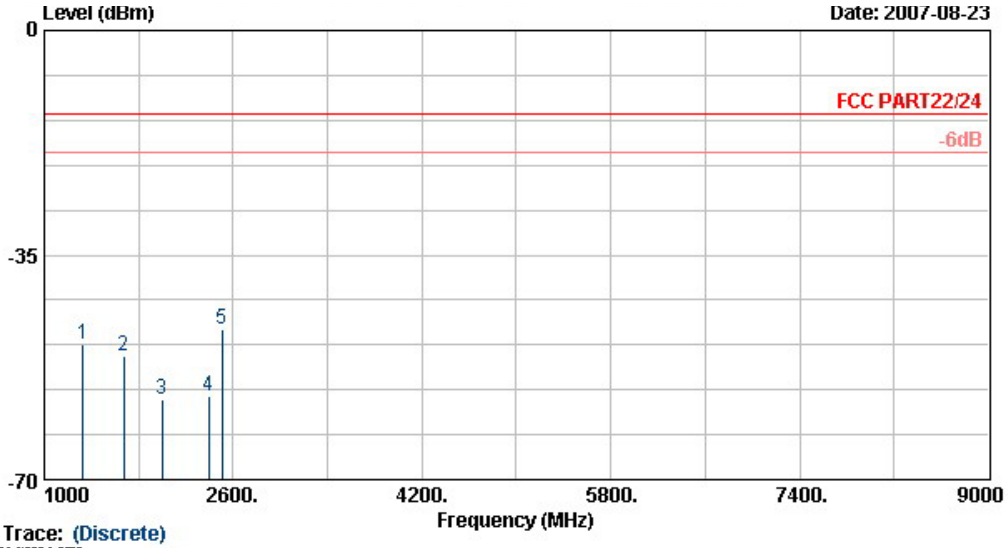

Trace: (Discrete)

Site : 03CH06-HY
Condition : LF-SPURIOUS HORIZONTAL
EUT : Notebook
Power : 120Vac 60Hz
Model : FG780813
Mode : EDGE Link + Adaptor

| | Freq | Level | Over Limit | Limit Line | Read Level | Factor | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBm | dB | dBm | dBm | dB | | |
| 1 | 30.0 | -63.34 | -50.34 | -13.00 | -63.70 | 0.36 | Peak | HORIZONTAL |
| 2 | 241.1 | -55.56 | -42.56 | -13.00 | -43.60 | -11.95 | Peak | HORIZONTAL |
| 3 | 266.0 | -60.03 | -47.03 | -13.00 | -48.92 | -11.12 | Peak | HORIZONTAL |
| 4 | 836.9 | -50.00 | | | -48.67 | -1.33 | Peak | HORIZONTAL |
| 5 | 880.3 | -57.65 | | | -56.74 | -0.91 | Peak | HORIZONTAL |
| 6 | 997.9 | -54.20 | -41.20 | -13.00 | -54.42 | 0.22 | Peak | HORIZONTAL |

Remark:

1. #4: MS Signal
2. #5: BS Signal

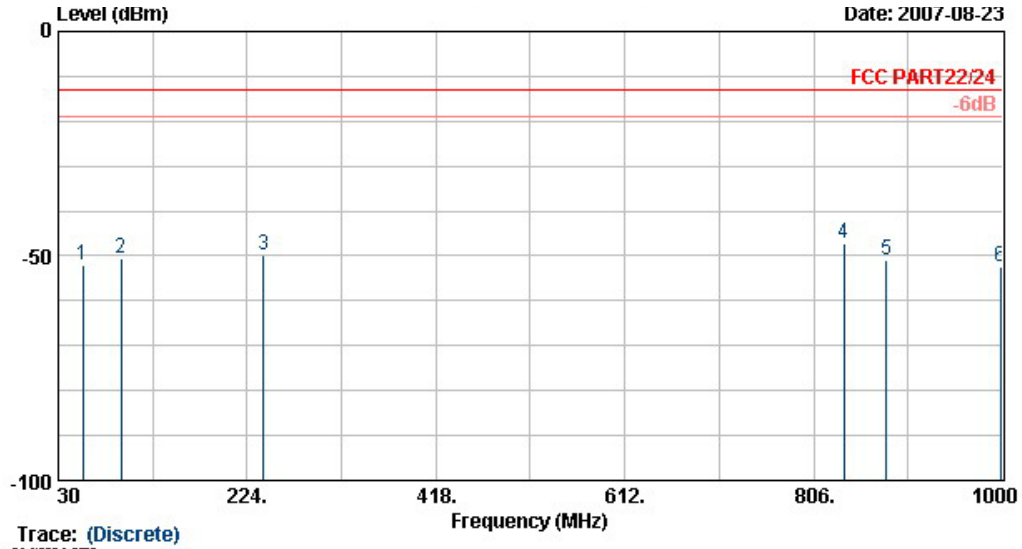



Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : Notebook
Power : 120Vac 60Hz
Model : FG780813
Mode : EDGE Link + Adaptor

| | Freq | Level | Over Limit | Limit Line | Read Level | Factor | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBm | dB | dBm | dBm | dB | | |
| 1 | 1328.0 | -49.01 | -36.01 | -13.00 | -49.97 | 0.96 | Peak | HORIZONTAL |
| 2 | 1674.0 | -50.83 | -37.83 | -13.00 | -51.06 | 0.22 | Peak | HORIZONTAL |
| 3 | 1998.0 | -57.58 | -44.58 | -13.00 | -56.30 | -1.28 | Peak | HORIZONTAL |
| 4 | 2394.0 | -57.10 | -44.10 | -13.00 | -57.98 | 0.89 | Peak | HORIZONTAL |
| 5 | 2508.0 | -46.59 | -33.59 | -13.00 | -47.79 | 1.20 | Peak | HORIZONTAL |

Vertical Polarization

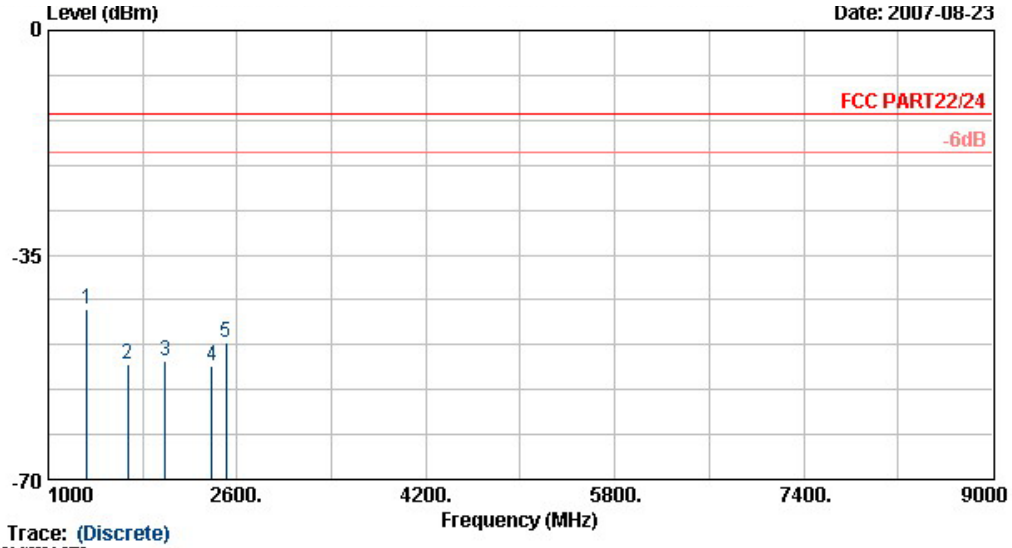



Site : 03CH06-HY
Condition : LF-SPURIOUS VERTICAL
EUT : Notebook
Power : 120Vac 60Hz
Model : FG780813
Mode : EDGE Link + Adaptor

| | Freq | Level | Over Limit | Limit Line | Read Level | Factor | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBm | dB | dBm | dBm | dB | | |
| 1 | 55.4 | -52.08 | -39.08 | -13.00 | -37.96 | -14.12 | Peak | VERTICAL |
| 2 | 94.5 | -50.68 | -37.68 | -13.00 | -42.30 | -8.39 | Peak | VERTICAL |
| 3 | 241.1 | -49.73 | -36.73 | -13.00 | -42.03 | -7.70 | Peak | VERTICAL |
| 4 | 836.9 | -47.12 | | | -48.49 | 1.36 | Peak | VERTICAL |
| 5 | 880.3 | -50.81 | | | -52.52 | 1.71 | Peak | VERTICAL |
| 6 | 997.9 | -52.43 | -39.43 | -13.00 | -55.07 | 2.64 | Peak | VERTICAL |

Remark:

1. #4: MS Signal
2. #5: BS Signal




Trace: (Discrete)

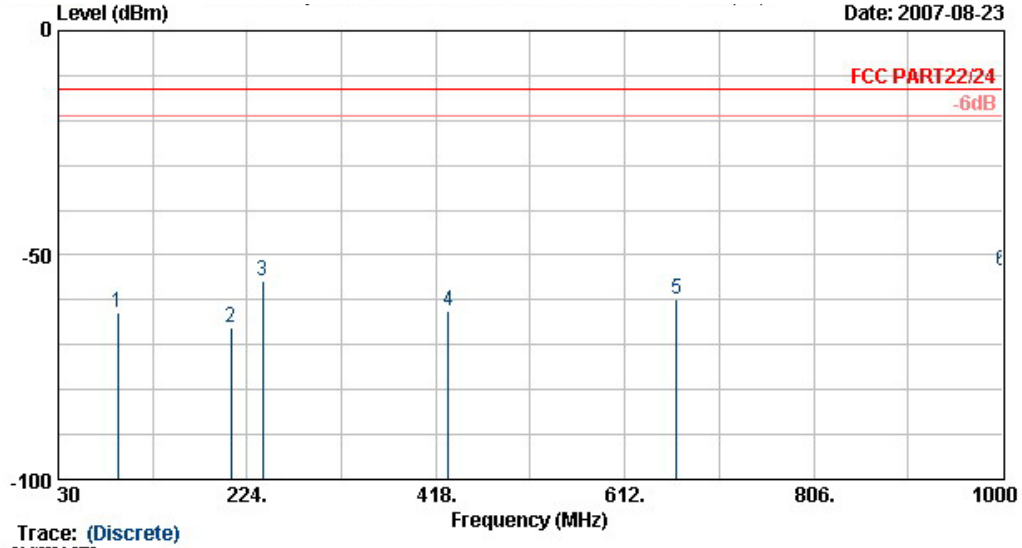
Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : Notebook
Power : 120Vac 60Hz
Model : FG780813
Mode : EDGE Link + Adaptor

| | Freq | Level | Over Limit | Limit Line | Read Level | Factor | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBm | dB | dBm | dBm | dB | | |
| 1 @ | 1328.0 | -43.33 | -30.33 | -13.00 | -42.53 | -0.80 | Peak | VERTICAL |
| 2 | 1674.0 | -51.94 | -38.94 | -13.00 | -51.46 | -0.48 | Peak | VERTICAL |
| 3 | 1994.0 | -51.49 | -38.49 | -13.00 | -50.80 | -0.69 | Peak | VERTICAL |
| 4 | 2388.0 | -52.42 | -39.42 | -13.00 | -54.23 | 1.81 | Peak | VERTICAL |
| 5 | 2508.0 | -48.68 | -35.68 | -13.00 | -50.95 | 2.27 | Peak | VERTICAL |

Remark：There is no more obvious emission except the listings above.

4.2.5.3 Mode 3

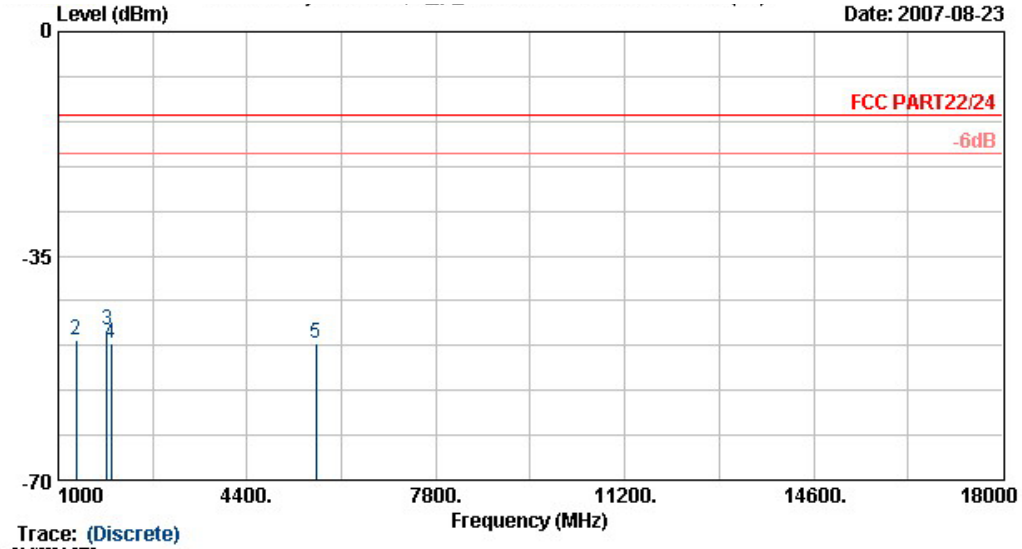
Horizontal Polarization




Trace: (Discrete)

Site : 03CH06-HY
Condition : LF-SPURIOUS HORIZONTAL
EUT : Notebook
Power : 120Vac/60Hz
Model : FG 780813
Mode : GPRS Link + Adaptor

| | Freq | Level | Over Limit | Limit Line | Read Level | Factor | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBm | dB | dBm | dBm | dB | | |
| 1 | 91.3 | -62.90 | -49.90 | -13.00 | -50.63 | -12.27 | Peak | HORIZONTAL |
| 2 | 207.4 | -66.09 | -53.09 | -13.00 | -52.97 | -13.12 | Peak | HORIZONTAL |
| 3 | 240.3 | -55.80 | -42.80 | -13.00 | -43.82 | -11.99 | Peak | HORIZONTAL |
| 4 | 430.9 | -62.52 | -49.52 | -13.00 | -56.45 | -6.07 | Peak | HORIZONTAL |
| 5 | 665.4 | -59.75 | -46.75 | -13.00 | -56.68 | -3.07 | Peak | HORIZONTAL |
| 6 | 1000.0 | -53.44 | -40.44 | -13.00 | -53.68 | 0.24 | Peak | HORIZONTAL |




Trace: (Discrete)

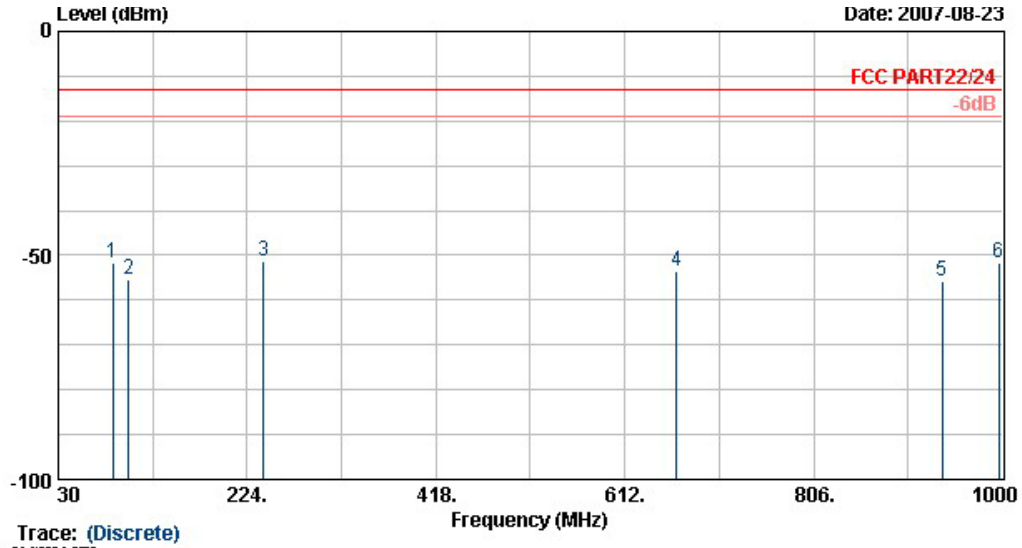
Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : Notebook
Power : 120Vac/60Hz
Model : FG 780813
Mode : GPRS Link + Adaptor

| | Freq | Level | Over Limit | Limit Line | Read Level | Factor | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBm | dB | dBm | dBm | dB | | |
| 1 | 1000.0 | -45.00 | -32.00 | -13.00 | -46.81 | 1.80 | Peak | HORIZONTAL |
| 2 | 1328.0 | -48.14 | -35.14 | -13.00 | -49.09 | 0.96 | Peak | HORIZONTAL |
| 3 | 1878.0 | -46.67 | | | -46.16 | -0.51 | Peak | HORIZONTAL |
| 4 | 1958.0 | -48.63 | | | -47.52 | -1.11 | Peak | HORIZONTAL |
| 5 | 5638.0 | -48.75 | -35.75 | -13.00 | -58.72 | 9.97 | Peak | HORIZONTAL |

Remark:

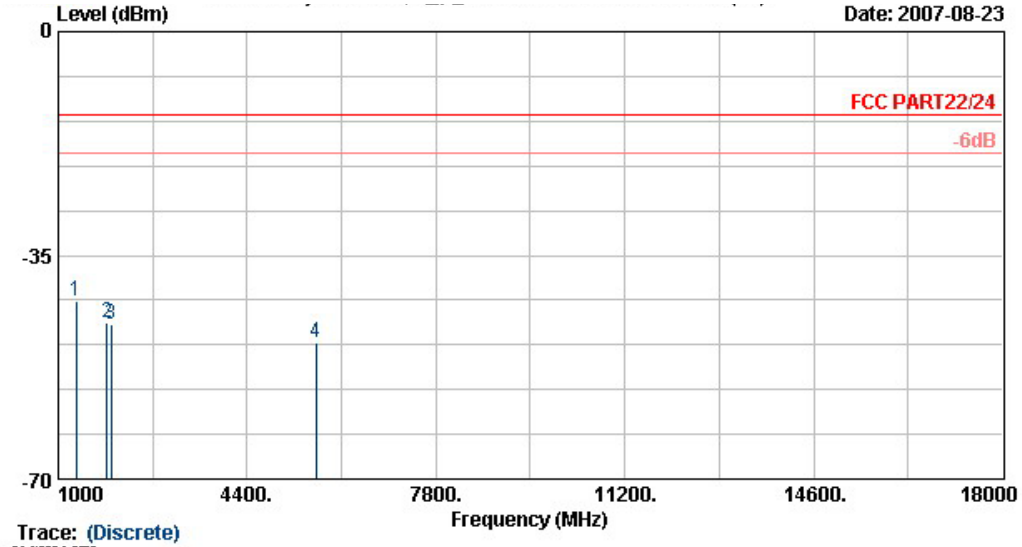
1. #3: MS Signal
2. #4: BS Signal

Vertical Polarization




Site : 03CH06-HY
Condition : LF-SPURIOUS VERTICAL
EUT : Notebook
Power : 120Vac/60Hz
Model : FG 780813
Mode : GPRS Link + Adaptor

| | Freq | Level | Over Limit | Limit Line | Read Level | Factor | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBm | dB | dBm | dBm | dB | | |
| 1 | 85.9 | -51.78 | -38.78 | -13.00 | -42.13 | -9.65 | Peak | VERTICAL |
| 2 | 102.1 | -55.48 | -42.48 | -13.00 | -47.77 | -7.71 | Peak | VERTICAL |
| 3 | 241.1 | -51.33 | -38.33 | -13.00 | -43.62 | -7.70 | Peak | VERTICAL |
| 4 | 665.4 | -53.43 | -40.43 | -13.00 | -52.47 | -0.95 | Peak | VERTICAL |
| 5 | 938.4 | -55.61 | -42.61 | -13.00 | -57.77 | 2.17 | Peak | VERTICAL |
| 6 | 995.8 | -51.53 | -38.53 | -13.00 | -54.16 | 2.63 | Peak | VERTICAL |




Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : Notebook
Power : 120Vac/60Hz
Model : FG 780813
Mode : GPRS Link + Adaptor

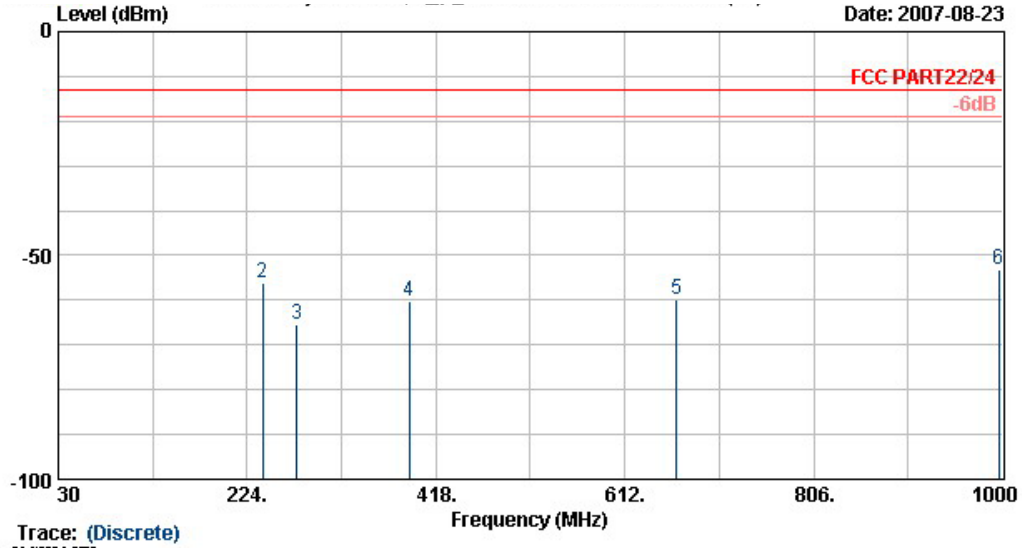
| | Freq | Level | Over Limit | Limit Line | Read Level | Factor | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBm | dB | dBm | dBm | dB | | |
| 1 @ | 1328.0 | -42.05 | -29.05 | -13.00 | -41.25 | -0.80 | Peak | VERTICAL |
| 2 | 1878.0 | -45.60 | | | -45.20 | -0.40 | Peak | VERTICAL |
| 3 | 1958.0 | -45.93 | | | -45.33 | -0.60 | Peak | VERTICAL |
| 4 | 5638.0 | -48.73 | -35.73 | -13.00 | -57.38 | 8.65 | Peak | VERTICAL |

Remark:

1. #2: MS Signal
2. #3: BS Signal
3. There is no more obvious emission except the listings above.

4.2.5.4 Mode 4

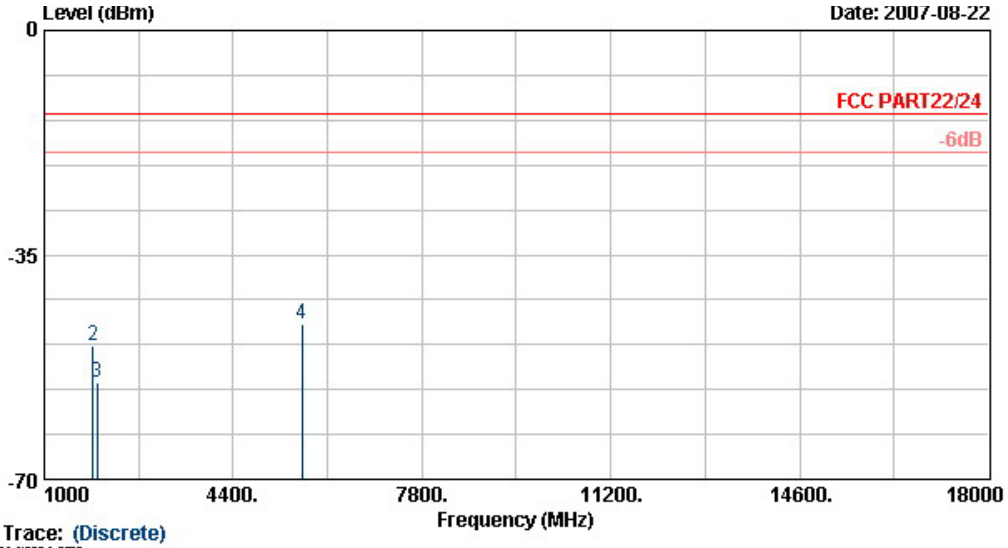
Horizontal Polarization




Trace: (Discrete)

Site : 03CH06-HY
Condition : LF-SPURIOUS HORIZONTAL
EUT : Notebook
Power : 120Vac/60Hz
Model : PG 780813
Mode : EDGE Link + Adaptor

| | Freq | Level | Over Limit | Limit Line | Read Level | Factor | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBm | dB | dBm | dBm | dB | | |
| 1 | 30.0 | -62.78 | -49.78 | -13.00 | -63.14 | 0.36 | Peak | HORIZONTAL |
| 2 | 240.3 | -56.04 | -43.04 | -13.00 | -44.06 | -11.99 | Peak | HORIZONTAL |
| 3 | 274.9 | -65.49 | -52.49 | -13.00 | -54.68 | -10.81 | Peak | HORIZONTAL |
| 4 | 390.3 | -60.22 | -47.22 | -13.00 | -53.39 | -6.83 | Peak | HORIZONTAL |
| 5 | 665.4 | -59.75 | -46.75 | -13.00 | -56.68 | -3.07 | Peak | HORIZONTAL |
| 6 | 995.8 | -53.03 | -40.03 | -13.00 | -53.23 | 0.20 | Peak | HORIZONTAL |




Trace: (Discrete)

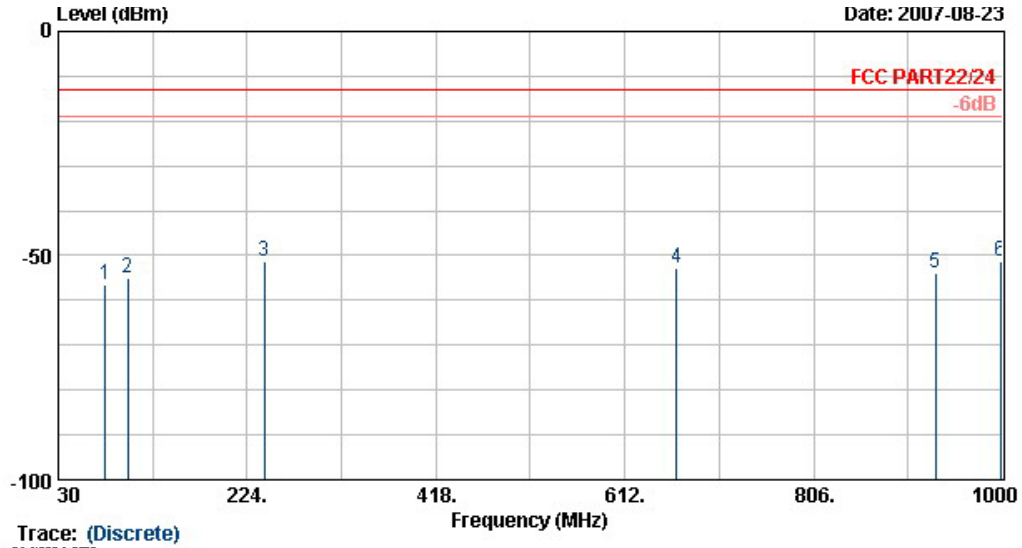
Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : Notebook
Power : 120Vac/60Hz
Model : FG 780813
Mode : EDGE Link + Adaptor

| | Freq | Level | Over Limit | Limit Line | Read Level | Factor | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBm | dB | dBm | dBm | dB | | |
| 1 | 1000.0 | -44.29 | -31.29 | -13.00 | -46.09 | 1.80 | Peak | HORIZONTAL |
| 2 | 1884.0 | -49.23 | | | -48.55 | -0.68 | Peak | HORIZONTAL |
| 3 | 1958.0 | -54.93 | | | -53.82 | -1.11 | Peak | HORIZONTAL |
| 4 | 5638.0 | -45.78 | -32.78 | -13.00 | -55.75 | 9.97 | Peak | HORIZONTAL |

Remark:

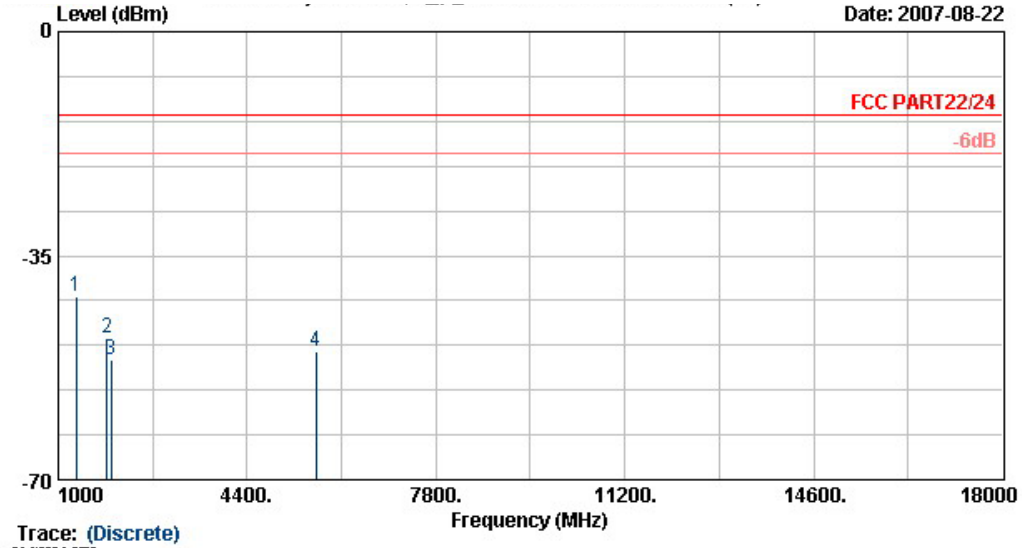
1. #2: MS Signal
2. #3: BS Signal

Vertical Polarization




Site : 03CH06-HY
Condition : LF-SPURIOUS VERTICAL
EUT : Notebook
Power : 120Vac/60Hz
Model : FG 780813
Mode : EDGE Link + Adaptor

| | Freq | Level | Over Limit | Limit Line | Read Level | Factor | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBm | dB | dBm | dBm | dB | | |
| 1 | 78.3 | -56.65 | -43.65 | -13.00 | -45.88 | -10.77 | Peak | VERTICAL |
| 2 | 101.3 | -54.95 | -41.95 | -13.00 | -47.25 | -7.70 | Peak | VERTICAL |
| 3 | 241.7 | -51.42 | -38.42 | -13.00 | -43.72 | -7.70 | Peak | VERTICAL |
| 4 | 665.4 | -52.96 | -39.96 | -13.00 | -52.01 | -0.95 | Peak | VERTICAL |
| 5 | 931.4 | -54.06 | -41.06 | -13.00 | -56.17 | 2.11 | Peak | VERTICAL |
| 6 | 997.9 | -51.35 | -38.35 | -13.00 | -53.99 | 2.64 | Peak | VERTICAL |




Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : Notebook
Power : 120Vac/60Hz
Model : FG 780813
Mode : EDGE Link + Adaptor

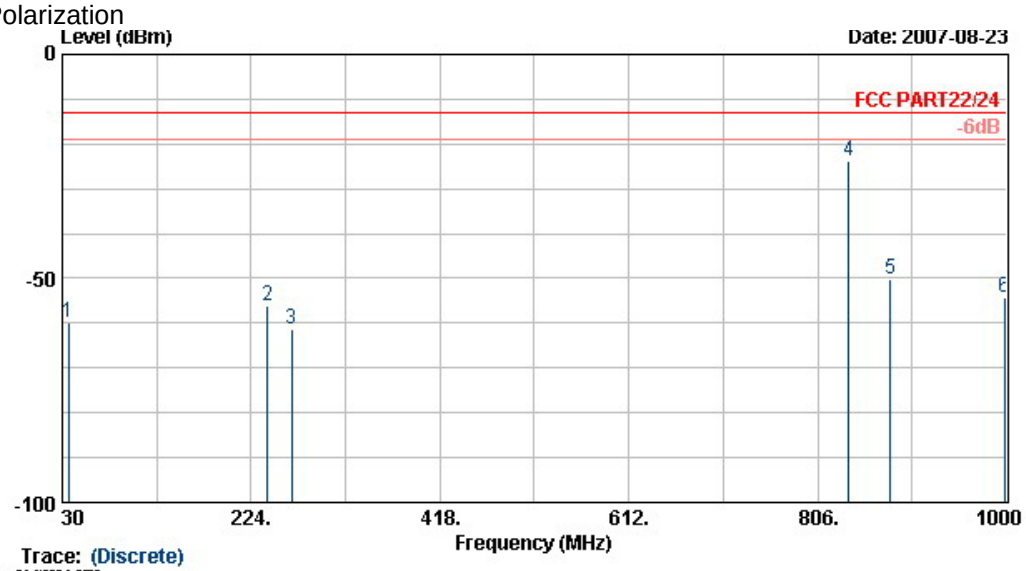
| | Freq | Level | Over Limit | Limit Line | Read Level | Factor | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBm | dB | dBm | dBm | dB | | |
| 1 @ | 1328.0 | -41.25 | -28.25 | -13.00 | -40.45 | -0.80 | Peak | VERTICAL |
| 2 | 1884.0 | -47.92 | | | -47.42 | -0.50 | Peak | VERTICAL |
| 3 | 1958.0 | -51.27 | | | -50.68 | -0.60 | Peak | VERTICAL |
| 4 | 5638.0 | -49.93 | -36.93 | -13.00 | -58.58 | 8.65 | Peak | VERTICAL |

Remark:

1. #2: MS Signal
2. #3: BS Signal
3. There is no more obvious emission except the listings above.

4.2.5.5 Mode 5

Horizontal Polarization

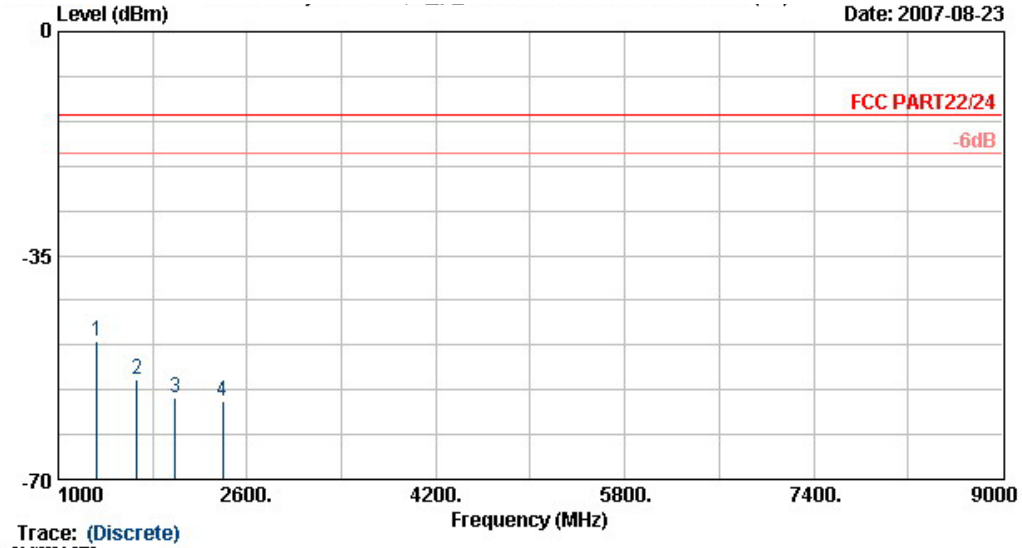



Site : 03CH06-HY
Condition : LF-SPURIOUS HORIZONTAL
EUT : Notebook
Power : 120Vac 60Hz
Model : FG780813
Mode : WCDMA Link + Adaptor

| | Freq | Level | Over Limit | Limit Line | Read Level | Factor | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBm | dB | dBm | dBm | dB | | |
| 1 | 36.5 | -59.81 | -46.81 | -13.00 | -55.91 | -3.90 | Peak | HORIZONTAL |
| 2 | 241.1 | -56.16 | -43.16 | -13.00 | -44.20 | -11.95 | Peak | HORIZONTAL |
| 3 | 265.4 | -61.22 | -48.22 | -13.00 | -50.10 | -11.12 | Peak | HORIZONTAL |
| 4 @ | 838.3 | -23.93 | | | -22.60 | -1.32 | Peak | HORIZONTAL |
| 5 | 880.3 | -50.35 | | | -49.44 | -0.91 | Peak | HORIZONTAL |
| 6 | 997.9 | -54.10 | -41.10 | -13.00 | -54.32 | 0.22 | Peak | HORIZONTAL |

Remark:

1. #4: MS Signal
2. #5: BS Signal

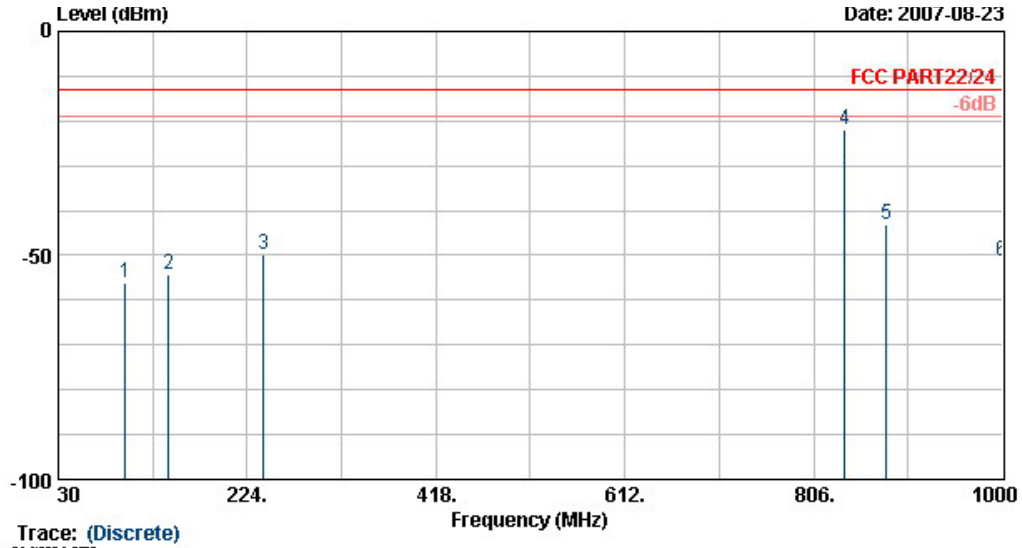



Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : Notebook
Power : 120Vac 60Hz
Model : FG780813
Mode : WCDMA Link + Adaptor

| | Freq | Level | Over Limit | Limit Line | Read Level | Factor | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBm | dB | dBm | dBm | dB | | |
| 1 | 1328.0 | -48.52 | -35.52 | -13.00 | -49.48 | 0.96 | Peak | HORIZONTAL |
| 2 | 1664.0 | -54.33 | -41.33 | -13.00 | -54.56 | 0.22 | Peak | HORIZONTAL |
| 3 | 1988.0 | -57.12 | -44.12 | -13.00 | -55.85 | -1.28 | Peak | HORIZONTAL |
| 4 | 2394.0 | -57.69 | -44.69 | -13.00 | -58.58 | 0.89 | Peak | HORIZONTAL |

Vertical Polarization

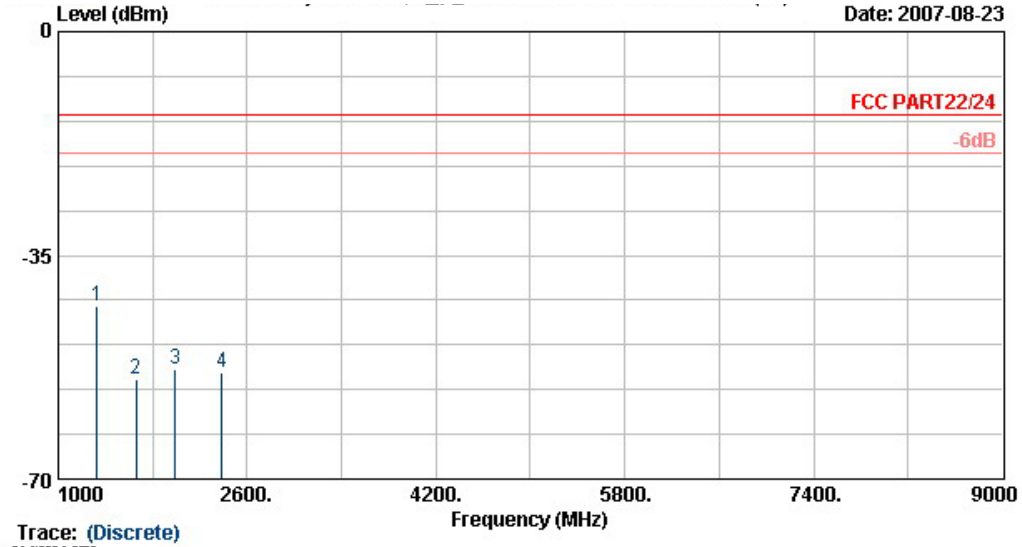



Site : 03CH06-HY
Condition : LF-SPURIOUS VERTICAL
EUT : Notebook
Power : 120Vac 60Hz
Model : FG780813
Mode : WCDMA Link + Adaptor

| | | Freq | Level | Over Limit | Limit Line | Read Level | Factor | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBm | dB | dBm | dBm | dB | | |
| 1 | | 98.6 | -56.06 | -43.06 | -13.00 | -48.23 | -7.83 | Peak | VERTICAL |
| 2 | | 143.1 | -54.35 | -41.35 | -13.00 | -46.27 | -8.08 | Peak | VERTICAL |
| 3 | | 241.1 | -49.97 | -36.97 | -13.00 | -42.27 | -7.70 | Peak | VERTICAL |
| 4 | @ | 838.3 | -22.09 | | | -23.46 | 1.37 | Peak | VERTICAL |
| 5 | | 880.3 | -43.15 | | | -44.86 | 1.71 | Peak | VERTICAL |
| 6 | | 1000.0 | -51.38 | -38.38 | -13.00 | -54.04 | 2.66 | Peak | VERTICAL |

Remark:

1. #4: MS Signal
2. #5: BS Signal




Trace: (Discrete)

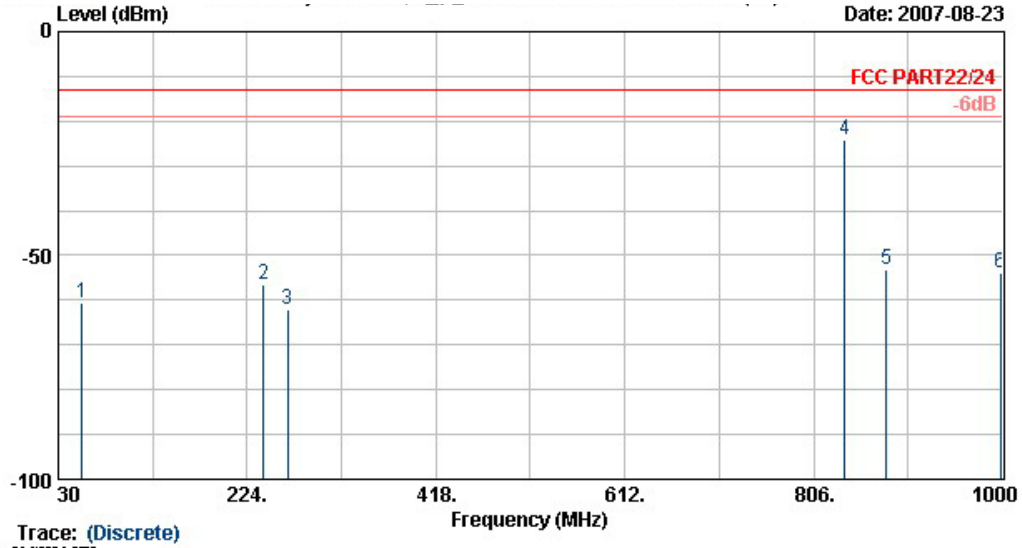
Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : Notebook
Power : 120Vac 60Hz
Model : FG780813
Mode : WCDMA Link + Adaptor

| | Freq | Level | Over Limit | Limit Line | Read Level | Factor | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBm | dB | dBm | dBm | dB | | |
| 1 @ | 1328.0 | -43.03 | -30.03 | -13.00 | -42.23 | -0.80 | Peak | VERTICAL |
| 2 | 1658.0 | -54.47 | -41.47 | -13.00 | -53.99 | -0.48 | Peak | VERTICAL |
| 3 | 1988.0 | -52.77 | -39.77 | -13.00 | -52.08 | -0.69 | Peak | VERTICAL |
| 4 | 2388.0 | -53.38 | -40.38 | -13.00 | -55.20 | 1.81 | Peak | VERTICAL |

Remark：There is no more obvious emission except the listings above.

4.2.5.6 Mode 6

Horizontal Polarization



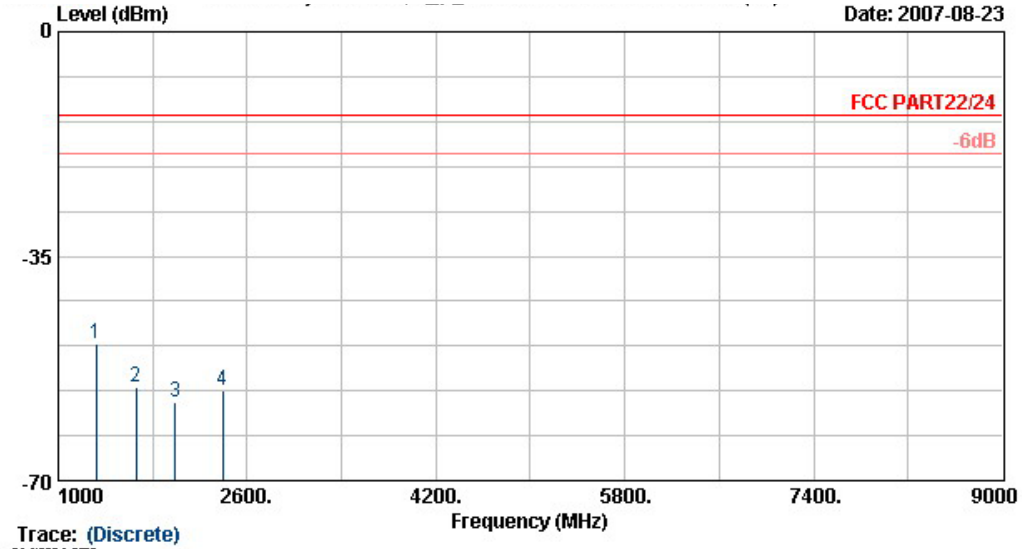

Trace: (Discrete)

Site : 03CH06-HY
Condition : LF-SPURIOUS HORIZONTAL
EUT : Notebook
Power : 120Vac 60Hz
Model : FG780813
Mode : HSDPA Link + Adaptor

| | | Freq | Level | Over Limit | Limit Line | Read Level | Factor | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBm | dB | dBm | dBm | dB | | |
| 1 | | 54.0 | -60.75 | -47.75 | -13.00 | -48.33 | -12.42 | Peak | HORIZONTAL |
| 2 | | 241.1 | -56.38 | -43.38 | -13.00 | -44.43 | -11.95 | Peak | HORIZONTAL |
| 3 | | 265.4 | -62.11 | -49.11 | -13.00 | -50.99 | -11.12 | Peak | HORIZONTAL |
| 4 | @ | 838.3 | -24.29 | | | -22.96 | -1.32 | Peak | HORIZONTAL |
| 5 | | 880.3 | -53.33 | | | -52.42 | -0.91 | Peak | HORIZONTAL |
| 6 | | 997.9 | -53.97 | -40.97 | -13.00 | -54.19 | 0.22 | Peak | HORIZONTAL |

Remark:

1. #4: MS Signal
2. #5: BS Signal

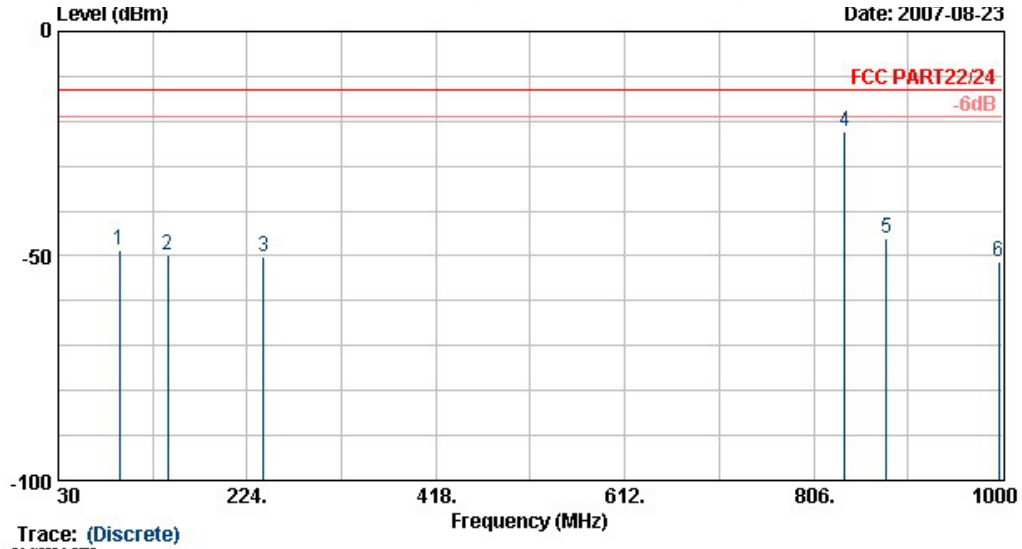



Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : Notebook
Power : 120Vac 60Hz
Model : FG780813
Mode : HSDPA Link + Adaptor

| | Freq | Level | Over Limit | Limit Line | Read Level | Factor | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBm | dB | dBm | dBm | dB | | |
| 1 | 1324.0 | -48.58 | -35.58 | -13.00 | -49.54 | 0.96 | Peak | HORIZONTAL |
| 2 | 1658.0 | -55.30 | -42.30 | -13.00 | -55.52 | 0.22 | Peak | HORIZONTAL |
| 3 | 1994.0 | -57.85 | -44.85 | -13.00 | -56.57 | -1.28 | Peak | HORIZONTAL |
| 4 | 2394.0 | -55.92 | -42.92 | -13.00 | -56.81 | 0.89 | Peak | HORIZONTAL |

Vertical Polarization

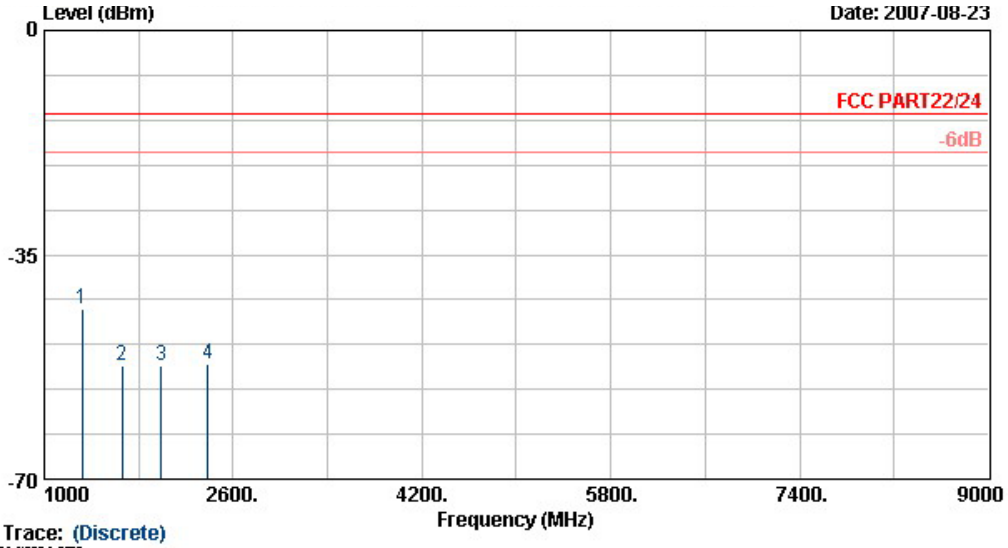



Site : 03CH06-HY
Condition : LF-SPURIOUS VERTICAL
EUT : Notebook
Power : 120Vac 60Hz
Model : FG780813
Mode : HSDPA Link + Adaptor

| | | Freq | Level | Over Limit | Limit Line | Read Level | Factor | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBm | dB | dBm | dBm | dB | | |
| 1 | | 92.6 | -48.57 | -35.57 | -13.00 | -39.90 | -8.67 | Peak | VERTICAL |
| 2 | | 142.6 | -49.68 | -36.68 | -13.00 | -41.60 | -8.07 | Peak | VERTICAL |
| 3 | | 241.1 | -50.18 | -37.18 | -13.00 | -42.48 | -7.70 | Peak | VERTICAL |
| 4 | @ | 838.3 | -22.47 | | | -23.84 | 1.37 | Peak | VERTICAL |
| 5 | | 880.3 | -46.07 | | | -47.78 | 1.71 | Peak | VERTICAL |
| 6 | | 995.8 | -51.44 | -38.44 | -13.00 | -54.07 | 2.63 | Peak | VERTICAL |

Remark:

1. #4: MS Signal
2. #5: BS Signal




Trace: (Discrete)

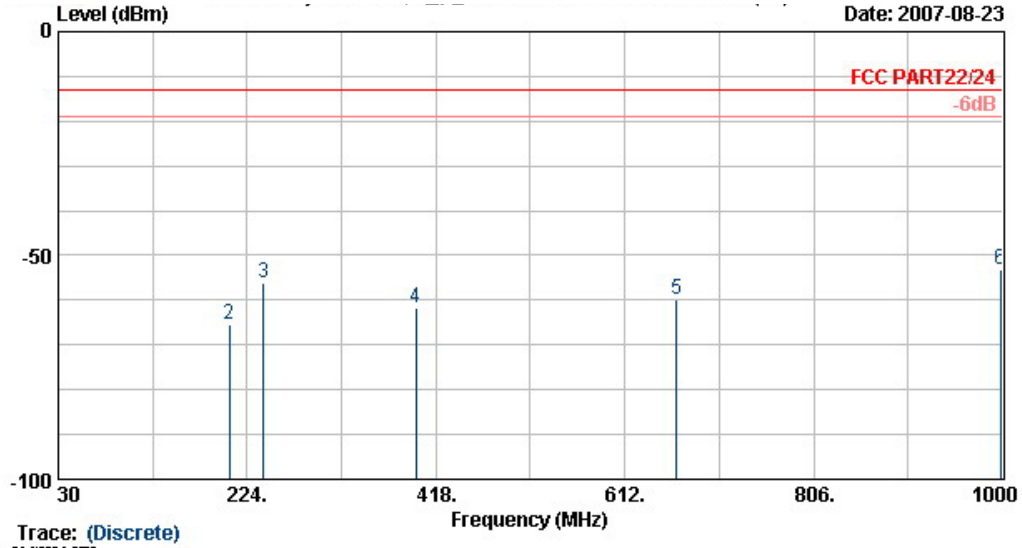
Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : Notebook
Power : 120Vac 60Hz
Model : FG780813
Mode : HSDPA Link + Adaptor

| | Freq | Level | Over Limit | Limit Line | Read Level | Factor | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBm | dB | dBm | dBm | dB | | |
| 1 @ | 1324.0 | -43.44 | -30.44 | -13.00 | -42.64 | -0.80 | Peak | VERTICAL |
| 2 | 1658.0 | -52.33 | -39.33 | -13.00 | -51.85 | -0.48 | Peak | VERTICAL |
| 3 | 1994.0 | -52.42 | -39.42 | -13.00 | -51.73 | -0.69 | Peak | VERTICAL |
| 4 | 2388.0 | -51.94 | -38.94 | -13.00 | -53.75 | 1.81 | Peak | VERTICAL |

Remark：There is no more obvious emission except the listings above.

4.2.5.7 Mode 7

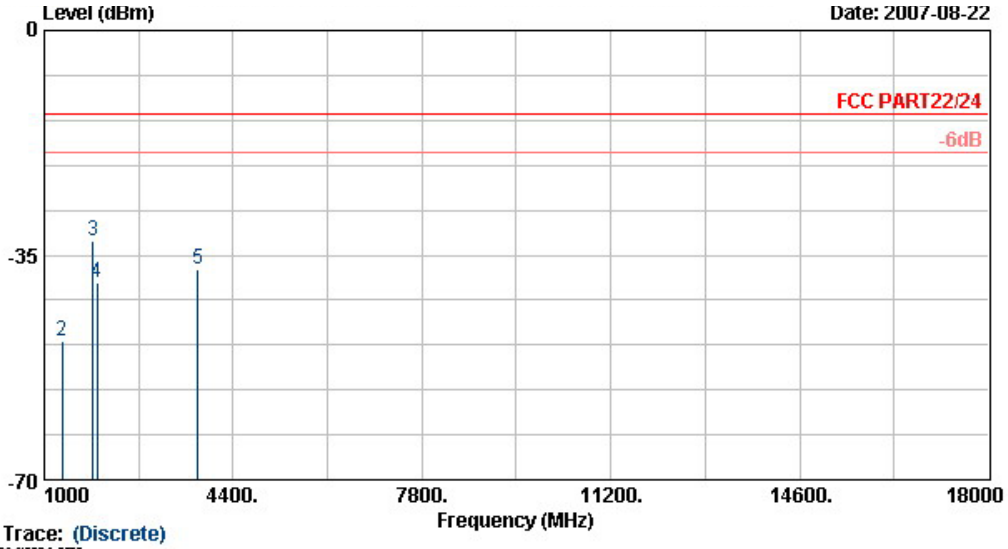
Horizontal Polarization




Trace: (Discrete)

Site : 03CH06-HY
Condition : LF-SPURIOUS HORIZONTAL
EUT : Notebook
Power : 120Vac/60Hz
Model : FG 780813
Mode : WCDMA BAND II Link + Adaptor

| | Freq | Level | Over Limit | Limit Line | Read Level | Factor | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBm | dB | dBm | dBm | dB | | |
| 1 | 30.0 | -63.88 | -50.88 | -13.00 | -64.24 | 0.36 | Peak | HORIZONTAL |
| 2 | 206.0 | -65.33 | -52.33 | -13.00 | -52.14 | -13.19 | Peak | HORIZONTAL |
| 3 | 241.1 | -56.13 | -43.13 | -13.00 | -44.18 | -11.95 | Peak | HORIZONTAL |
| 4 | 397.3 | -61.58 | -48.58 | -13.00 | -55.01 | -6.57 | Peak | HORIZONTAL |
| 5 | 665.4 | -59.84 | -46.84 | -13.00 | -56.77 | -3.07 | Peak | HORIZONTAL |
| 6 | 997.9 | -53.03 | -40.03 | -13.00 | -53.25 | 0.22 | Peak | HORIZONTAL |




Trace: (Discrete)

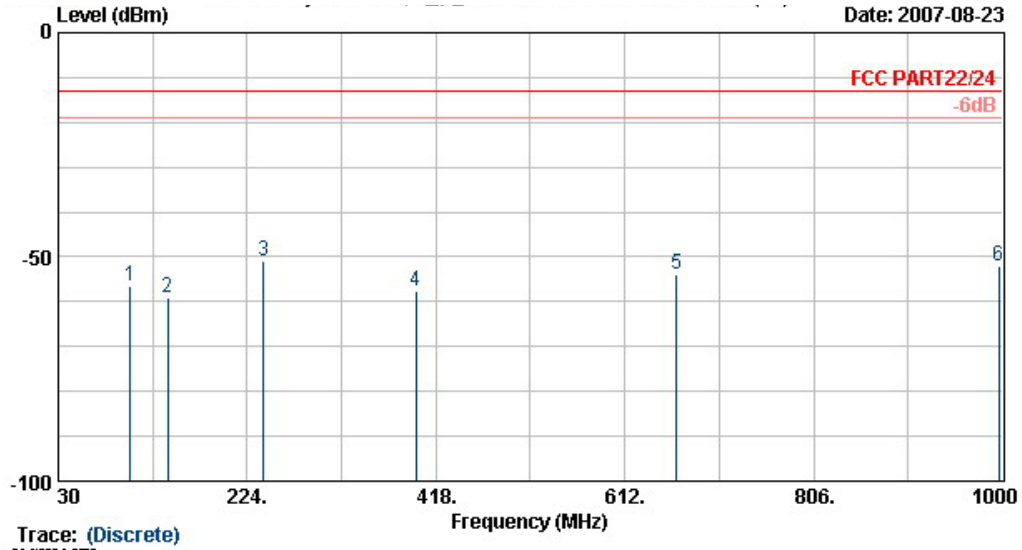
Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : Notebook
Power : 120Vac/60Hz
Model : FG 780813
Mode : WCDMA BAND II Link + Adaptor

| | Freq | Level | Over Limit | Limit Line | Read Level | Factor | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBm | dB | dBm | dBm | dB | | |
| 1 | 1000.0 | -46.22 | -33.22 | -13.00 | -48.02 | 1.80 | Peak | HORIZONTAL |
| 2 | 1328.0 | -48.29 | -35.29 | -13.00 | -49.25 | 0.96 | Peak | HORIZONTAL |
| 3 @ | 1878.0 | -32.87 | | | -32.36 | -0.51 | Peak | HORIZONTAL |
| 4 | 1958.0 | -39.17 | | | -38.06 | -1.11 | Peak | HORIZONTAL |
| 5 | 3764.0 | -37.16 | -24.16 | -13.00 | -45.09 | 7.92 | Peak | HORIZONTAL |

Remark:

1. #3: MS Signal
2. #4: BS Signal

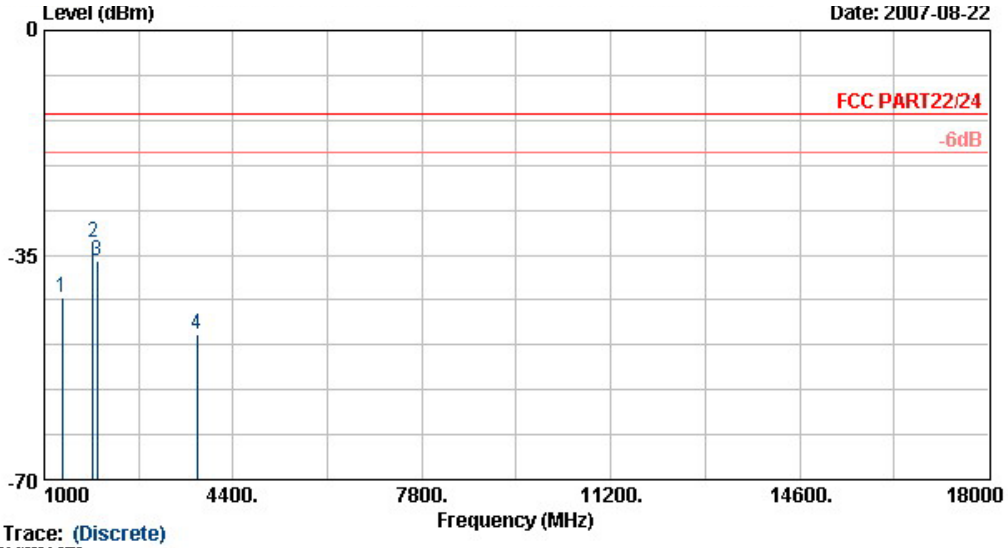
Vertical Polarization




Trace: (Discrete)

Site : 03CH06-HY
Condition : LF-SPURIOUS VERTICAL
EUT : Notebook
Power : 120Vac/60Hz
Model : FG 780813
Mode : WCDMA BAND II Link + Adaptor

| | Freq | Level | Over Limit | Limit Line | Read Level | Factor | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBm | dB | dBm | dBm | dB | | |
| 1 | 104.0 | -56.54 | -43.54 | -13.00 | -48.81 | -7.72 | Peak | VERTICAL |
| 2 | 142.6 | -58.93 | -45.93 | -13.00 | -50.85 | -8.07 | Peak | VERTICAL |
| 3 | 241.1 | -51.08 | -38.08 | -13.00 | -43.38 | -7.70 | Peak | VERTICAL |
| 4 | 397.3 | -57.46 | -44.46 | -13.00 | -53.09 | -4.37 | Peak | VERTICAL |
| 5 | 665.4 | -53.72 | -40.72 | -13.00 | -52.77 | -0.95 | Peak | VERTICAL |
| 6 | 995.8 | -52.14 | -39.14 | -13.00 | -54.77 | 2.63 | Peak | VERTICAL |




Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : Notebook
Power : 120Vac/60Hz
Model : FG 780813
Mode : WCDMA BAND II Link + Adaptor

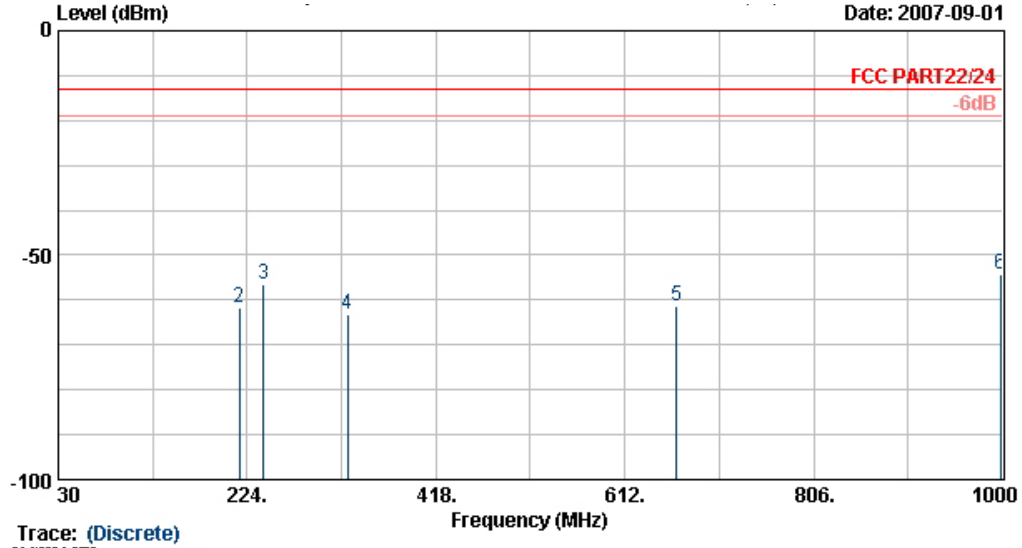
| | Freq | Level | Over Limit | Limit Line | Read Level | Factor | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBm | dB | dBm | dBm | dB | | |
| 1 | 1328.0 | -41.58 | -28.58 | -13.00 | -40.78 | -0.80 | Peak | VERTICAL |
| 2 @ | 1878.0 | -32.97 | | | -32.57 | -0.40 | Peak | VERTICAL |
| 3 | 1958.0 | -35.87 | | | -35.28 | -0.60 | Peak | VERTICAL |
| 4 | 3758.0 | -47.38 | -34.38 | -13.00 | -54.02 | 6.64 | Peak | VERTICAL |

Remark:

1. #2: MS Signal
2. #3: BS Signal
3. There is no more obvious emission except the listings above.

4.2.5.8 Mode 8

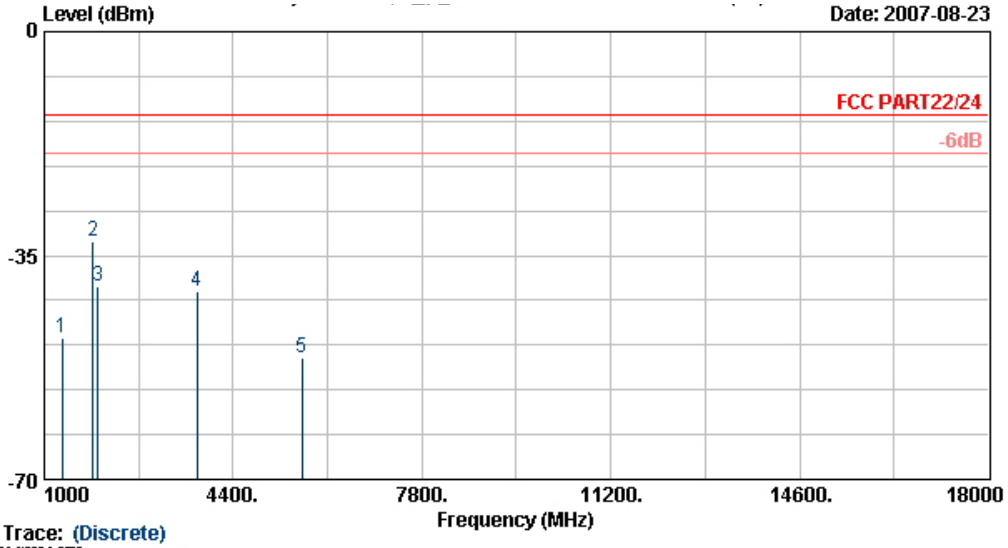
Horizontal Polarization




Trace: (Discrete)

Site : 03CH06-HY
Condition : LF-SPURIOUS HORIZONTAL
EUT : Notebook
Power : 120Vac 60Hz
Model : FG780813
Mode : HSDPA Link + Adaptor

| | Freq | Level | Over Limit | Limit Line | Read Level | Factor | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBm | dB | dBm | dBm | dB | | |
| 1 | 30.0 | -57.97 | -44.97 | -13.00 | -58.33 | 0.36 | Peak | HORIZONTAL |
| 2 | 216.0 | -61.68 | -48.68 | -13.00 | -48.86 | -12.82 | Peak | HORIZONTAL |
| 3 | 241.1 | -56.59 | -43.59 | -13.00 | -44.64 | -11.95 | Peak | HORIZONTAL |
| 4 | 327.3 | -63.05 | -50.05 | -13.00 | -54.04 | -9.01 | Peak | HORIZONTAL |
| 5 | 665.4 | -61.32 | -48.32 | -13.00 | -58.25 | -3.07 | Peak | HORIZONTAL |
| 6 | 997.9 | -54.17 | -41.17 | -13.00 | -54.40 | 0.22 | Peak | HORIZONTAL |




Trace: (Discrete)

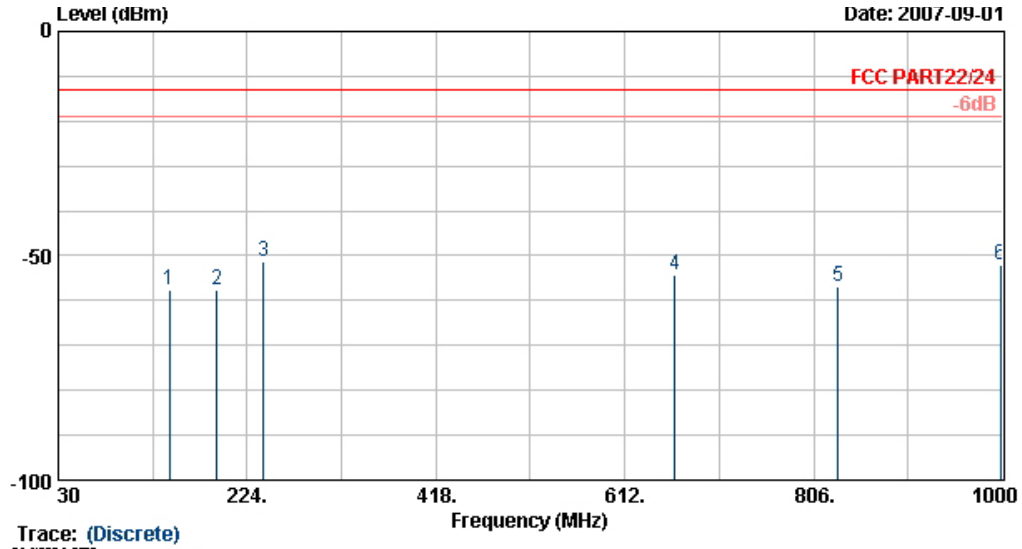
Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : Notebook
Power : 120Vac 60Hz
Model : FG780813
Mode : HSDPA Link + Adaptor

| | Freq | Level | Over Limit | Limit Line | Read Level | Factor | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBm | dB | dBm | dBm | dB | | |
| 1 | 1328.0 | -47.75 | -34.75 | -13.00 | -48.71 | 0.96 | Peak | HORIZONTAL |
| 2 | 1878.0 | -32.68 | | | -32.17 | -0.51 | Peak | HORIZONTAL |
| 3 | 1962.0 | -39.72 | | | -38.61 | -1.11 | Peak | HORIZONTAL |
| 4 | 3758.0 | -40.66 | -27.66 | -13.00 | -48.58 | 7.92 | Peak | HORIZONTAL |
| 5 | 5638.0 | -51.08 | -38.08 | -13.00 | -61.05 | 9.97 | Peak | HORIZONTAL |

Remark:

1. #2: MS Signal
2. #3: BS Signal

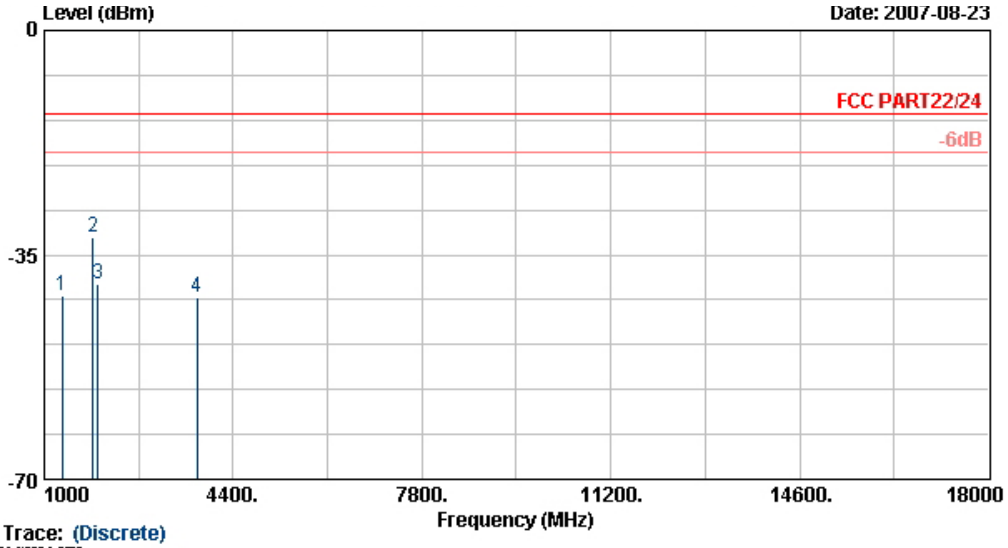
Vertical Polarization




Trace: (Discrete)

Site : 03CH06-HY
Condition : LF-SPURIOUS VERTICAL
EUT : Notebook
Power : 120Vac 60Hz
Model : FG780813
Mode : HSDPA Link + Adaptor

| | Freq | Level | Over Limit | Limit Line | Read Level | Factor | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBm | dB | dBm | dBm | dB | | |
| 1 | 144.5 | -57.77 | -44.77 | -13.00 | -49.68 | -8.09 | Peak | VERTICAL |
| 2 | 192.5 | -57.53 | -44.53 | -13.00 | -49.00 | -8.53 | Peak | VERTICAL |
| 3 | 241.1 | -51.43 | -38.43 | -13.00 | -43.73 | -7.70 | Peak | VERTICAL |
| 4 | 663.3 | -54.28 | -41.28 | -13.00 | -53.30 | -0.98 | Peak | VERTICAL |
| 5 | 831.3 | -56.73 | -43.73 | -13.00 | -58.04 | 1.32 | Peak | VERTICAL |
| 6 | 997.9 | -51.92 | -38.92 | -13.00 | -54.57 | 2.64 | Peak | VERTICAL |




Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : Notebook
Power : 120Vac 60Hz
Model : FG780813
Mode : HSDPA Link + Adaptor

| | Freq | Level | Over Limit | Limit Line | Read Level | Factor | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBm | dB | dBm | dBm | dB | | |
| 1 | 1328.0 | -41.48 | -28.48 | -13.00 | -40.68 | -0.80 | Peak | VERTICAL |
| 2 @ | 1878.0 | -32.16 | | | -31.75 | -0.40 | Peak | VERTICAL |
| 3 | 1962.0 | -39.43 | | | -38.84 | -0.60 | Peak | VERTICAL |
| 4 | 3758.0 | -41.57 | -28.57 | -13.00 | -48.21 | 6.64 | Peak | VERTICAL |

Remark:

1. #2: MS Signal
2. #3: BS Signal
3. There is no more obvious emission except the listings above.

# 5. List of Measurement Equipments

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Due Date | Remark |
|---|---|---|---|---|---|---|---|
| Spectrum analyzer | Agilent | E4408B | MY44211030 | 9KHz-26.5GHz | Oct. 05, 2006 | Oct. 04, 2007 | Radiation (03CH06-HY) |
| EMI Test Receiver | R&S | ESCS30 | 100356 | 9KHz-2.75GHz | Jul. 26, 200 | Jul. 25, 2008 | Radiation (03CH06-HY) |
| Bilog Antenna | SCHAFFNER | CBL6112B | 2885 | 30MHz -2GHz | Nov. 20, 2006 | Nov. 19, 2007 | Radiation (03CH06-HY) |
| Double Ridge Horn Antenna | Com-Power | AH118 | 071025 | 1G~18G | Jun. 04, 2007 | Jun. 03, 2008 | Radiation (03CH06-HY) |
| SHF-EHF Horn | SCHWARZBECK | BBHA 9170 | 9170-249 | 14G - 40G | Nov. 20, 2006 | Nov. 19, 2008 | Radiation (03CH06-HY) |
| Pre Amplifier | Agilent | 8449B | 3008A01917 | 1G - 26.5G | Nov. 15, 2006 | Nov. 14, 2007 | Radiation (03CH06-HY) |
| Pre Amplifier | Mini Circuits | ZKL-2 | D092004-1 | 10~2500MHz | Nov. 15, 2006 | Nov. 14, 2007 | Radiation (03CH06-HY) |
| Base Station Simulator | R & S | CMU200 | 106656 | WCDMA | Nov. 20, 2006 | Nov. 19, 2007 | Radiation (03CH06-HY) |

# 6. Uncertainty Evaluation

**Uncertainty of Radiated Emission Measurement (30MHz ~ 1000MHz)**

| Contribution | Uncertainty of $x_i$ | | $u(x_i)$ |
|---|---|---|---|
| | dB | Probability Distribution | |
| Receiver reading | 0.41 | Normal(k=2) | 0.21 |
| Antenna factor calibration | 0.83 | Normal(k=2) | 0.42 |
| Cable loss calibration | 0.25 | Normal(k=2) | 0.13 |
| Pre Amplifier Gain calibration | 0.27 | Normal(k=2) | 0.14 |
| RCV/SPA specification | 2.50 | Rectangular | 0.72 |
| Antenna Factor Interpolation for Frequency | 1.00 | Rectangular | 0.29 |
| Site imperfection | 1.43 | Rectangular | 0.83 |
| Mismatch | +0.39/-0.41 | U-shaped | 0.28 |
| **Combined standard uncertainty Uc(y)** | **1.27** | | |
| **Measuring uncertainty for a level of confidence of 95% U=2Uc(y)** | **2.54** | | |

**Uncertainty of Radiated Emission Measurement (1GHz ~ 40GHz)**

| Contribution | Uncertainty of $x_i$ | | $u(x_i)$ | $Ci$ | $Ci*u(x_i)$ |
|---|---|---|---|---|---|
| | dB | Probability Distribution | | | |
| Receiver reading | ±0.10 | Normal(k=1) | 0.10 | 1 | 0.10 |
| Antenna factor calibration | ±1.70 | Normal(k=2) | 0.85 | 1 | 0.85 |
| Cable loss calibration | ±0.50 | Normal(k=2) | 0.25 | 1 | 0.25 |
| Receiver Correction | ±2.00 | Rectangular | 1.15 | 1 | 1.15 |
| Antenna Factor Directional | ±1.50 | Rectangular | 0.87 | 1 | 0.87 |
| Site imperfection | ±2.80 | Triangular | 1.14 | 1 | 1.14 |
| Mismatch<br>Receiver VSWR Γ1= 0.197<br>Antenna VSWR Γ2= 0.194<br>Uncertainty=20log(1-Γ1*Γ2*Γ3) | +0.34/-0.35 | U-shaped | 0.244 | 1 | 0.244 |
| **Combined standard uncertainty Uc(y)** | **2.36** | | | | |
| **Measuring uncertainty for a level of confidence of 95% U=2Uc(y)** | **4.72** | | | | |

END OF TEST REPORT