

FCC TEST REPORT

for

47 CFR Part 15 Subpart C

Equipment

: Tablet PC

Trade Name

: VAC

Model No.

: V310

FCC ID

: Q8XV310TM

Filing Type

: Certification

Applicant

: Global Brands Manufacutre Ltd.

22F, No. 456, Sec. 4, Hsin Yi Rd., Taipei, Taiwan

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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

Original Report Issue Date: Oct. 26, 2004

- No additional attachment.
- Additional attachment were issued as following record:

FCC TEST REPORT

Report No. :F483149

Certificate No. : F483149

**CERTIFICATE OF COMPLIANCE
for****47 CFR Part 15 Subpart C**

Equipment : Tablet PC
Trade Name : VAC
Model No. : V310
FCC ID : Q8XV310TM
Filing Type : Certification
Applicant : Global Brands Manufacutre Ltd.
22F, No. 456, Sec. 4, Hsin Yi Rd., Taipei, Taiwan

I HEREBY CERTIFY THAT :

The measurements shown in this test report were made in accordance with the procedures given in **ANSI C63.4 - 2003** and the equipment under test was **passed** all test items required in FCC Part 15 subpart C, relative to the equipment under test. Testing was carried out on Oct. 13, 2004 at **SPORTON International Inc.** LAB.



Daniel Lee

Manager

SPORTON International Inc.

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

SPORTON International Inc.

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FCC ID : Q8XV310TM

Page No. : 1 of 67

Issued Date : Oct. 26, 2004

1. General Description of Equipment under Test

1.1. Applicant

Global Brands Manufacutre Ltd.
22F, No. 456, Sec. 4, Hsin Yi Rd., Taipei, Taiwan

1.2 Manufacturer

ECS Manufacturing (ShenZhen) Co., Ltd.
20, Free Trade Zone, Shatioujiao, Shen Zhen City, Guang Dong Province , China

1.3 Basic Description of Equipment under Test

| | |
|-------------------|--|
| Equipment | : Tablet PC |
| Trade Name | : VAC |
| Model No. | : V310 |
| FCC ID | : Q8XV310TM |
| Power Supply Type | : Switching |
| AC Power Cord | : AC 110V, Non-Shielded, 1.7meter, 2 pin |
| DC Power Cable | : DC 19V, 1.8 meter, 2 pin |

1.4 Feature of Equipment under Test

| Product Feature & Specification | | | | |
|---|---|---|--------------|---|
| 1. Host/Radio Interface | Tablet PC | | | |
| 2. Modulation Type/Data Rate | IEEE 802.11b: DBPSK(1Mbps), DQPSK(2Mbps), CCK(5.5/11Mbps) | | | |
| 3. Freq.Range/Carrier Freqs. | 2400 MHz ~ 2483.5 MHz | | | |
| 4. Number of Channels | USA/Canada: 11 | V | European: 13 | |
| | Japan: 13, 14 | | Other: | |
| 5. Carrier Frequency of each channel | 2400 MHz~2483.5MHz | | | |
| 6. Channel Spacing | 5 MHz | | | |
| 7. Maximum Output Power to Antenna (Normal condition) | IEEE 802.11b: 16.5 dBm | | | |
| 8. Type of Antenna Connector | IPEX | | | |
| 9. Antenna Type | PIFA | | | |
| 10. Antenna Gain | -0.17 dBi | | | |
| 11. Function Type | Transmitter | | Transceiver | V |

2 Test Configuration of Equipment under Test

2.1 Test Manner

- a. The EUT has been associated with peripherals pursuant to ANSI C63.4-2003 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.
- b. The complete test system included EUT for EMI test.
- c. The EUT can operate on eleven channels from 2412MHz to 2462MHz. (as listed in section 1.4).
- d. The following test modes were tested for conduction test:

Mode 1: Link mode

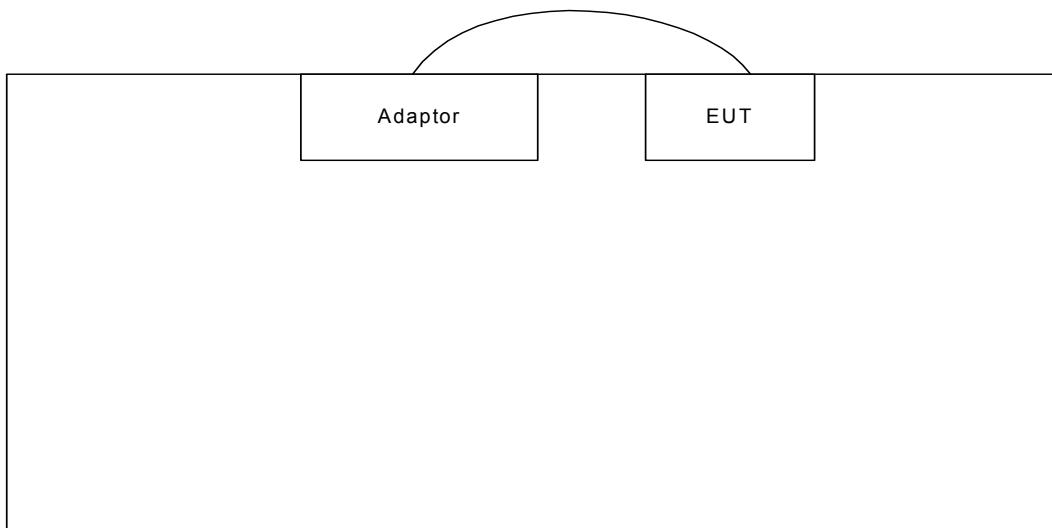
The following test modes were tested for radiation test:

Mode 1: TX CH01 2412MHz

Mode 2: TX CH06 2437MHz

Mode 3: TX CH11 2462MHz

- e. Frequency range investigated: conduction 150 kHz to 30 MHz, radiation 30 MHz to 25000MHz.

2.2 Connection Diagram of Test System

3 Operation of Equipment under Test

During the test, the following programs on WIN XP were executed :
Execute "Prism.exe" to implement continuous transmitting.

4 General Information of Test

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 : CO01-HY, 03CH06-HY

4.1 Test Voltage

110V/ 60Hz

4.2 Standard for Methods of Measurement

ANSI C63.4-2003

4.3 Test in Compliance with

47 CFR Part 15 Subpart C

4.4 Frequency Range Investigated

- a. Conduction: from 150 kHz to 30 MHz
- b. Radiation: from 30 MHz to 25000 MHz

4.5 Test Distance

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

5 Report of Measurements and Examinations

5.1 List of Measurements and Examinations

| FCC Rule | Description of Test | Result |
|------------------------|--|--------|
| 15.207 | Conducted Emission | Pass |
| 15.247(a)(2) | 6dB Bandwidth | Pass |
| 15.247(b) | Maximum Peak Output Power | Pass |
| 15.209(a) | Radiated Emission | Pass |
| 15.247 (c) | 100kHz Bandwidth of Frequency Band Edges | Pass |
| 15.247(d) | Power Spectral Density | Pass |
| 15.203 15.247(b)(4) | Antenna Requirement | Pass |

5.2 6dB Bandwidth

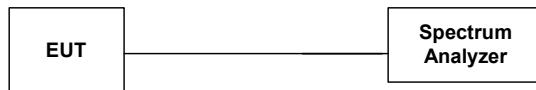
5.2.1 Measuring Instruments :

As described in chapter 9 of this test report.

5.2.2 Test Procedure :

1. The transmitter output was connected to the spectrum analyzer directly.
2. Set RBW of spectrum analyzer to 100kHz and VBW to 100kHz.
3. The 6 dB bandwidth is defined as the frequency range where the power is higher than the peak power minus 6dB.

5.2.3 Test Setup Layout :



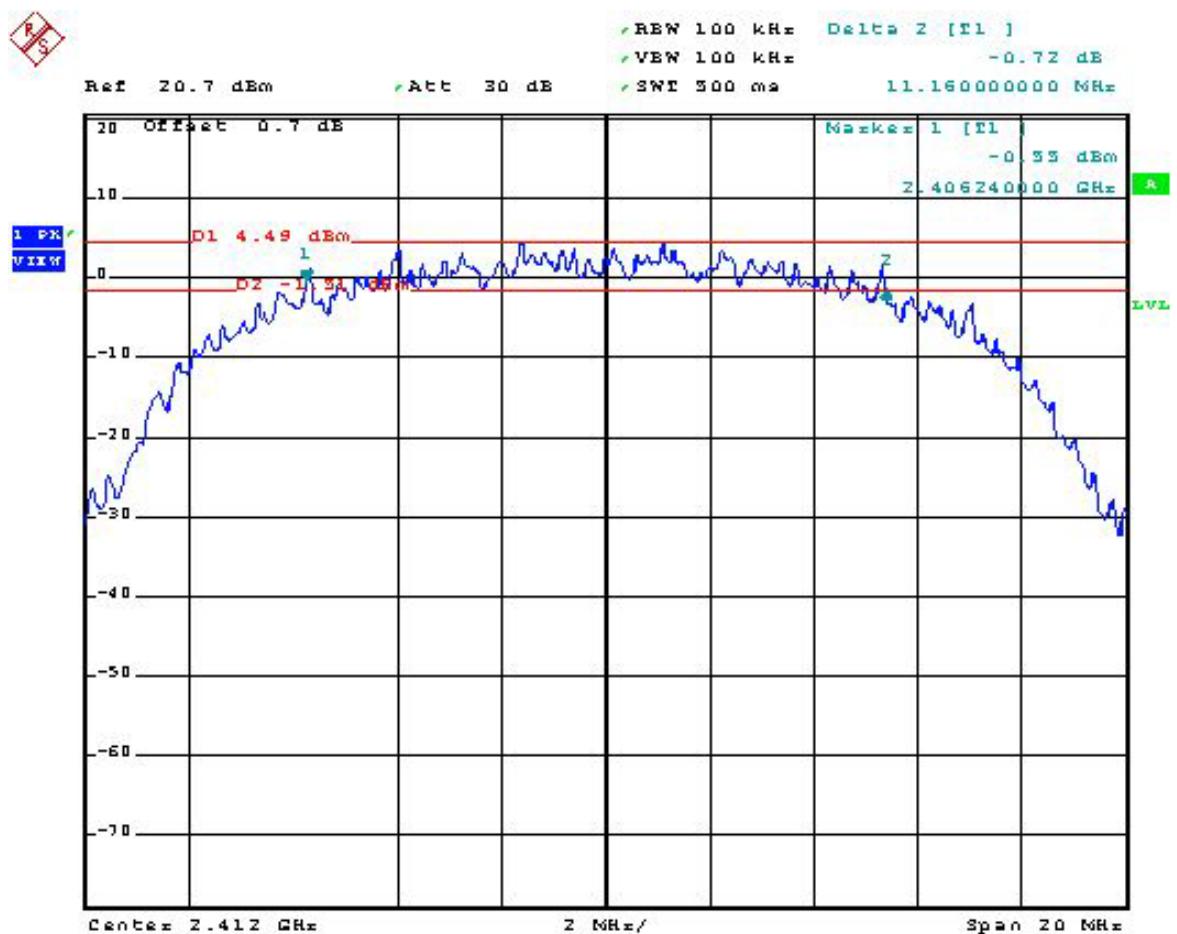
5.2.4 Test Result :

- Mode 1~3 : 802.11b
- Temperature : 24°C
- Relative Humidity : 47%

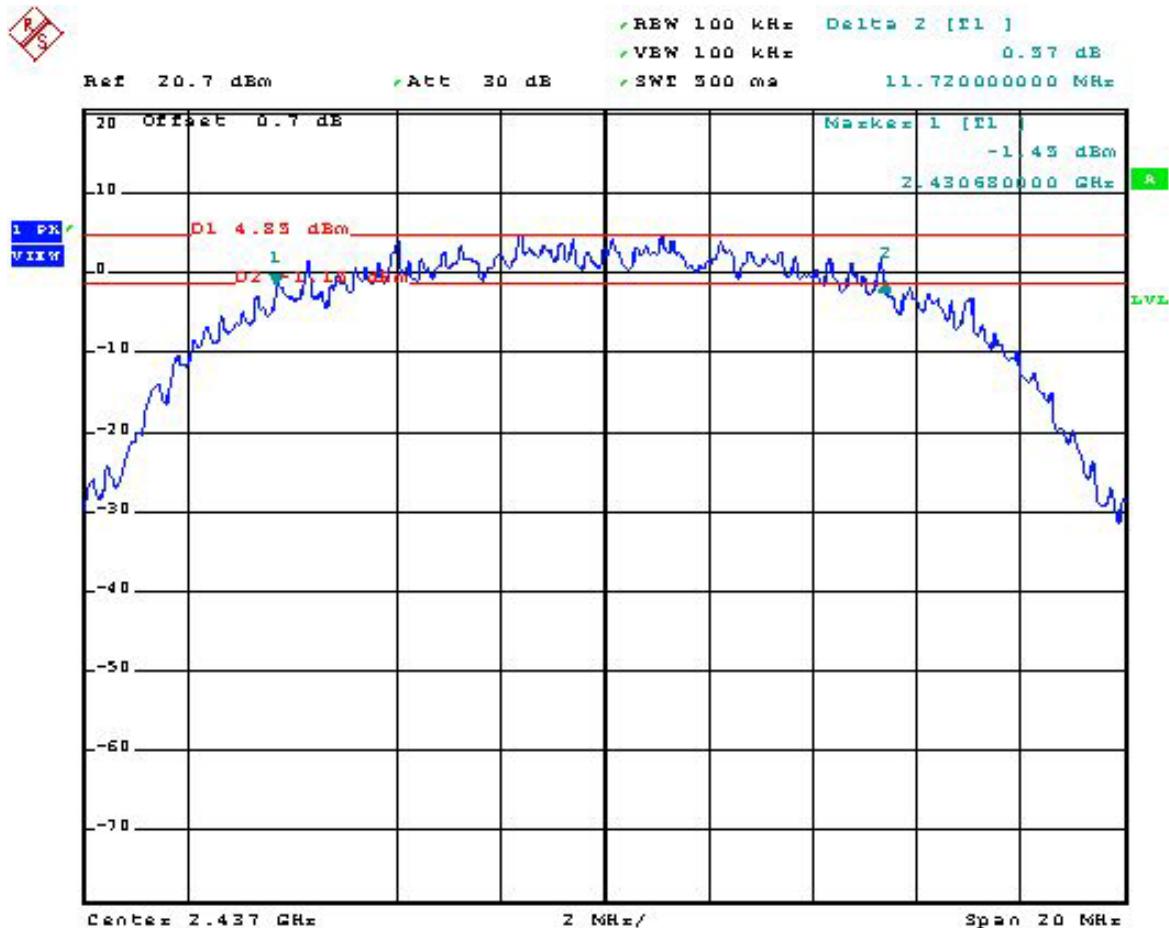
| Channel | Frequency (MHz) | 6dB Emission bandwidth (MHz) | Limits (MHz) | Plot Ref. No. |
|---------|----------------------|-----------------------------------|-------------------|------------------|
| 01 | 2412 | 11.16 | 0.5 | Mode 1 |
| 06 | 2437 | 11.72 | 0.5 | Mode 2 |
| 11 | 2462 | 11.16 | 0.5 | Mode 3 |

5.2.6 6dB Bandwidth

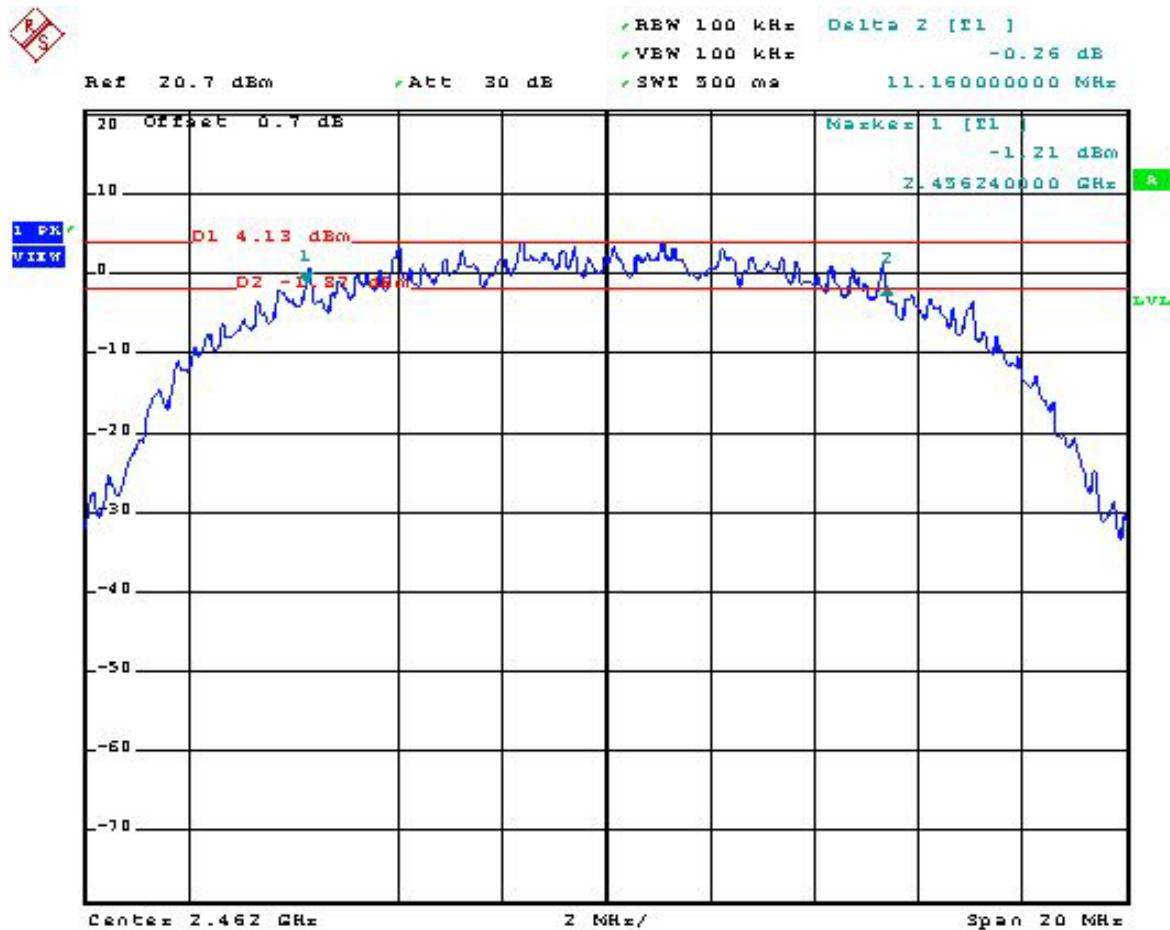
Mode 1 : 802.11b Tx CH01 (2412MHz)



Mode 2 : 802.11b Tx CH06 (2437MHz)



Mode 3 : 802.11b Tx CH11(2462MHz)



5.3 Power Spectral Density

5.3.1 Measuring Instruments :

As described in chapter 9 of this test report.

5.3.2 Test Procedure :

1. The transmitter output was connected to spectrum analyzer directly.
2. The spectrum analyzer's resolution bandwidth was set at 3kHz RBW and 30kHz VBW as that of the fundamental frequency. Set the sweep time=span/3kHz.
3. The power spectral density was measured and recorded.
4. The sweep time is allowed to be longer than span/3kHz for a full response of the mixer in the spectrum analyzer.

5.3.3 Test Setup Layout :



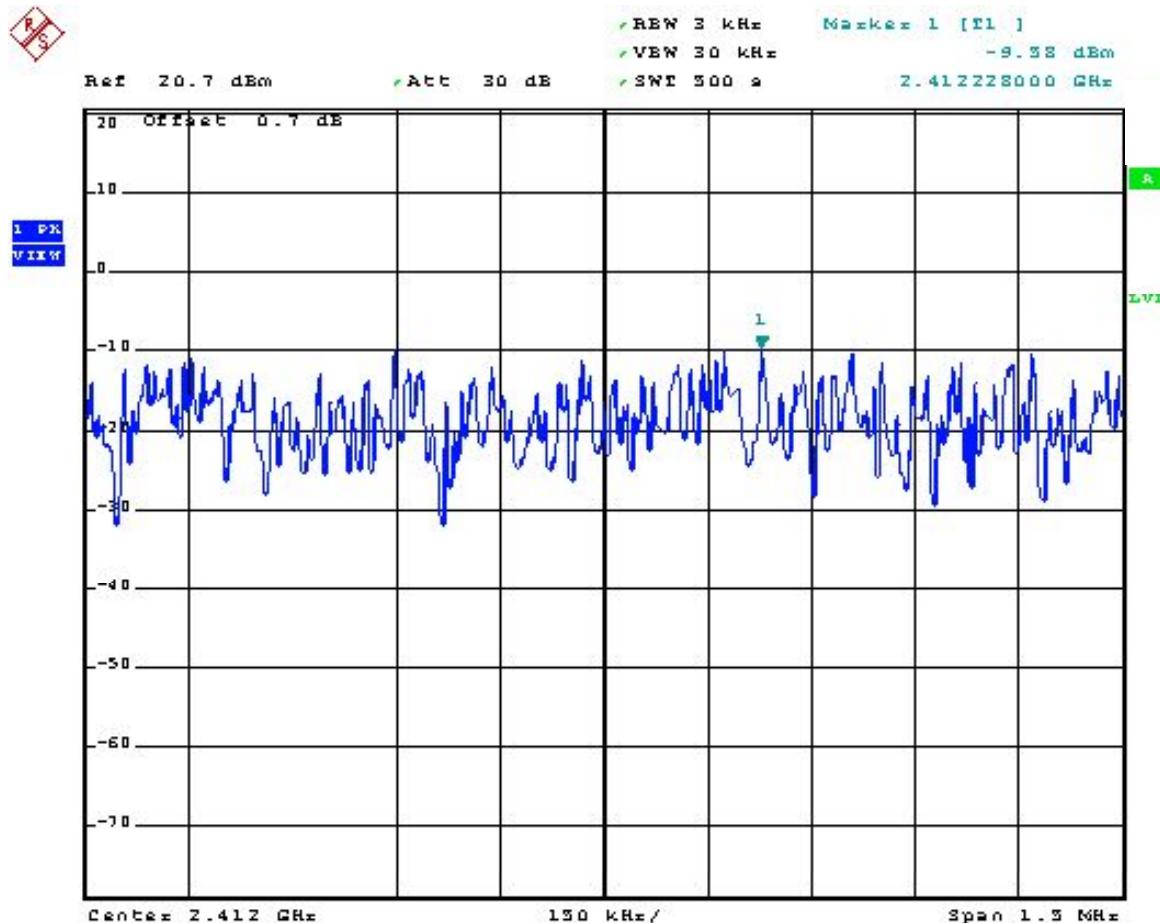
5.3.4 Test Result :

- Mode 1~3: 802.11b
- Temperature : 24°C,
- Relative Humidity : 47%

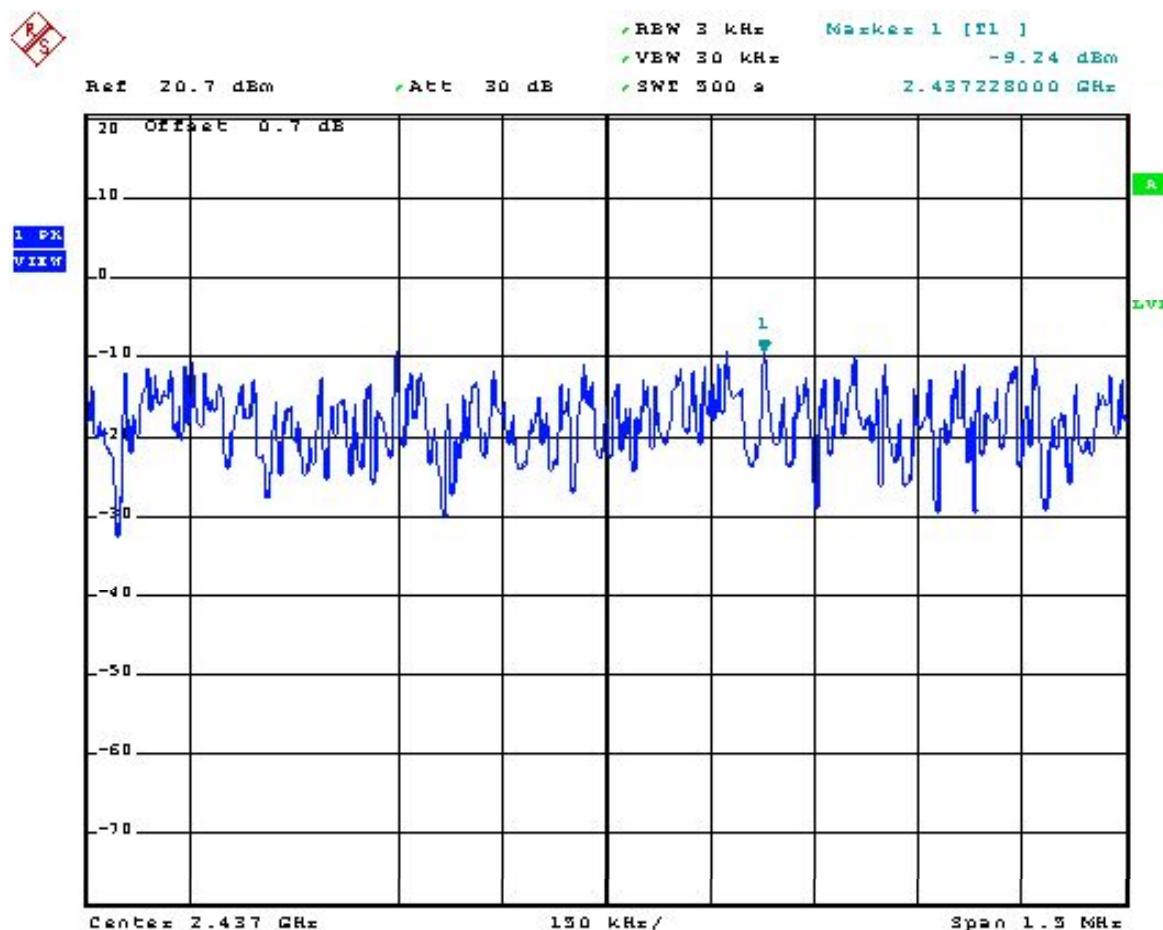
| Channel | Frequency (MHz) | Power Spectral Density (dBm) | Limits (dBm) | Plot | Ref. No. |
|---------|--------------------|---------------------------------|------------------|------|----------|
| 01 | 2412 | -9.58 | 8 | | Mode 1 |
| 06 | 2437 | -9.24 | 8 | | Mode 2 |
| 11 | 2462 | -10.05 | 8 | | Mode 3 |

5.3.5 Power Spectral Density

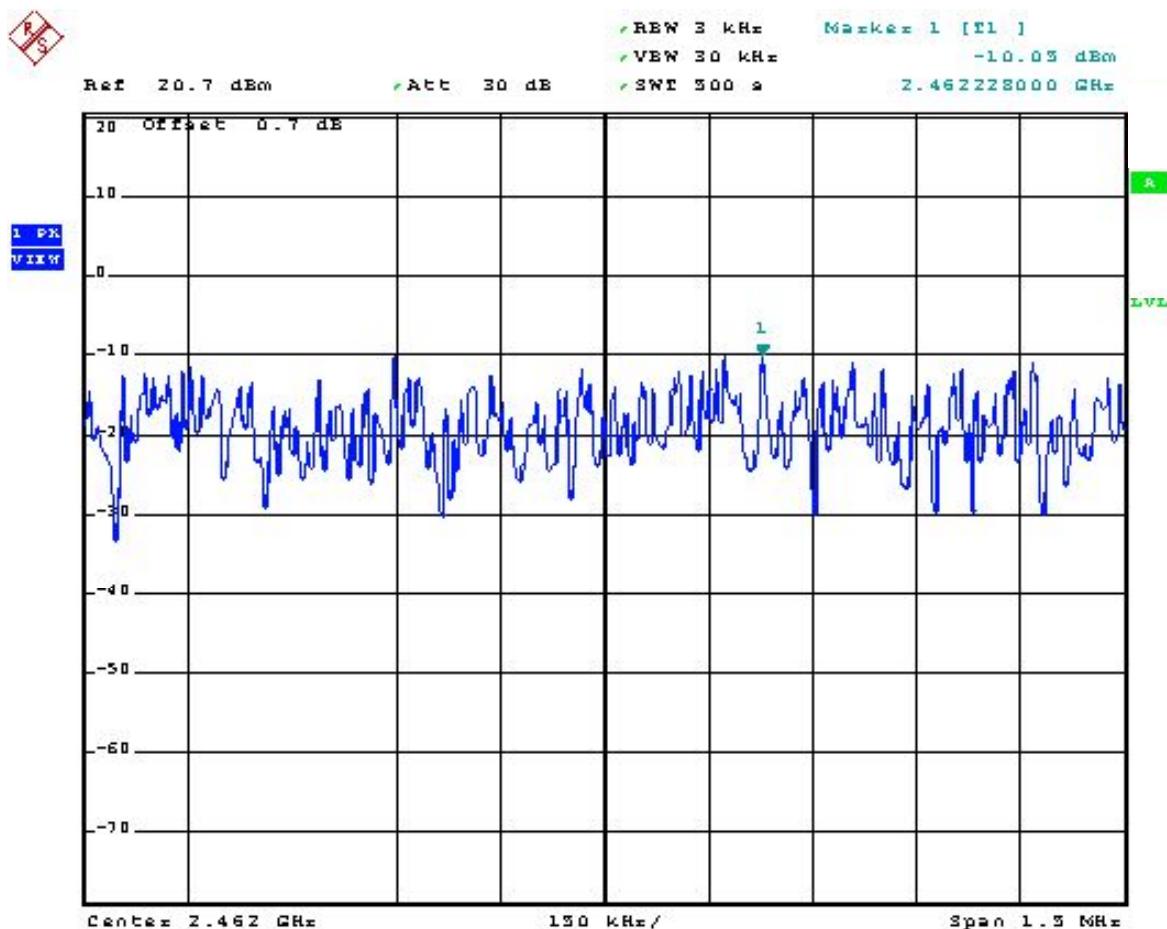
Mode 1 : 802.11b Tx CH01(2412MHz)



Mode 2 : 802.11b Tx CH06 (2437MHz)



Mode 3 : 802.11b Tx CH11 (2462MHz)



5.4 Band Edges Measurement

5.4.1 Measuring Instruments :

As described in chapter 9 of this test report.

5.4.2 Test Procedure :

1. The transmitter output was connected to the spectrum analyzer via a low loss cable.
2. Set both RBW and VBW of spectrum analyzer to 100kHz with suitable frequency span including 100 kHz bandwidth from band edge.
3. The band edges was measured and recorded.

5.4.3 Test Result :

- Mode 1 and 3 : 802.11b
- Temperature : 24°C,
- Relative Humidity : 47%
- Test Result in lower band (Channel 1) : PASS
- Test Result in higher band (Channel 11) : PASS

5.4.4 Note on Band Edge Emission

CH01 (Horizontal)

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Preamp Factor (dB) | Cable Loss (dB) | Detect Mode |
|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|----------------------------|-------------------------|----------------|
| 2390.00 | 51.38 | -22.62 | 74.00 | 55.51 | 28.40 | 35.85 | 3.32 | Peak |
| 2390.00 | 39.80 | -14.20 | 54.00 | 43.93 | 28.40 | 35.85 | 3.32 | Average |

CH01 (Vertical)

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Preamp Factor (dB) | Cable Loss (dB) | Detect Mode |
|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|----------------------------|-------------------------|----------------|
| 2390.00 | 51.08 | -22.92 | 74.00 | 55.21 | 28.40 | 35.85 | 3.32 | Peak |
| 2390.00 | 39.52 | -14.48 | 54.00 | 43.65 | 28.40 | 35.85 | 3.32 | Average |

CH11 (Horizontal)

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Preamp Factor (dB) | Cable Loss (dB) | Detect Mode |
|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|----------------------------|-------------------------|----------------|
| 2328.00 | 52.08 | -21.92 | 74.00 | 56.11 | 28.33 | 35.63 | 3.27 | Peak |
| 2328.00 | 40.37 | -13.63 | 54.00 | 44.40 | 28.33 | 35.63 | 3.27 | Average |

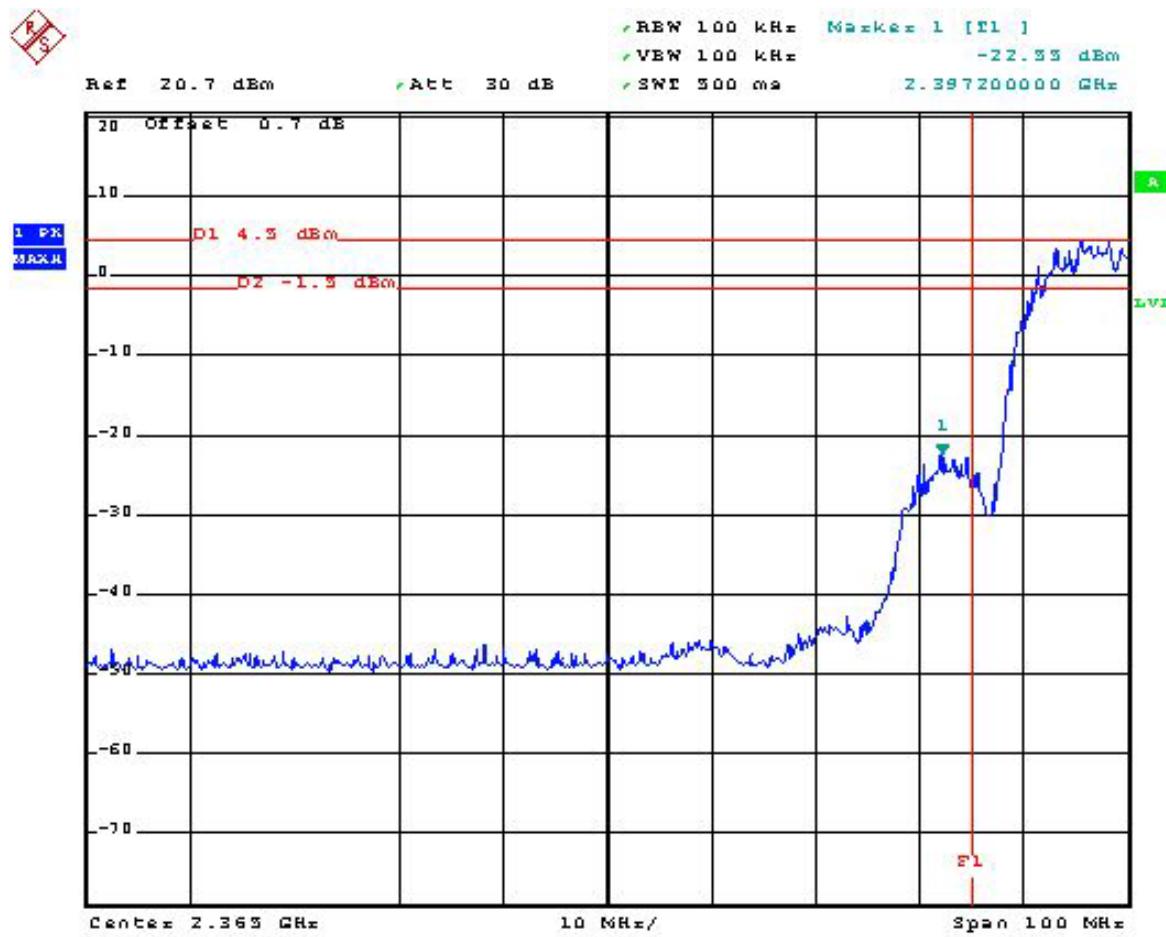
CH11 (Vertical)

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Preamp Factor (dB) | Cable Loss (dB) | Detect Mode |
|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|----------------------------|-------------------------|----------------|
| 2388.00 | 52.62 | -21.38 | 74.00 | 56.74 | 28.40 | 35.82 | 3.31 | Peak |
| 2388.00 | 40.46 | -13.54 | 54.00 | 44.58 | 28.40 | 35.82 | 3.31 | Average |

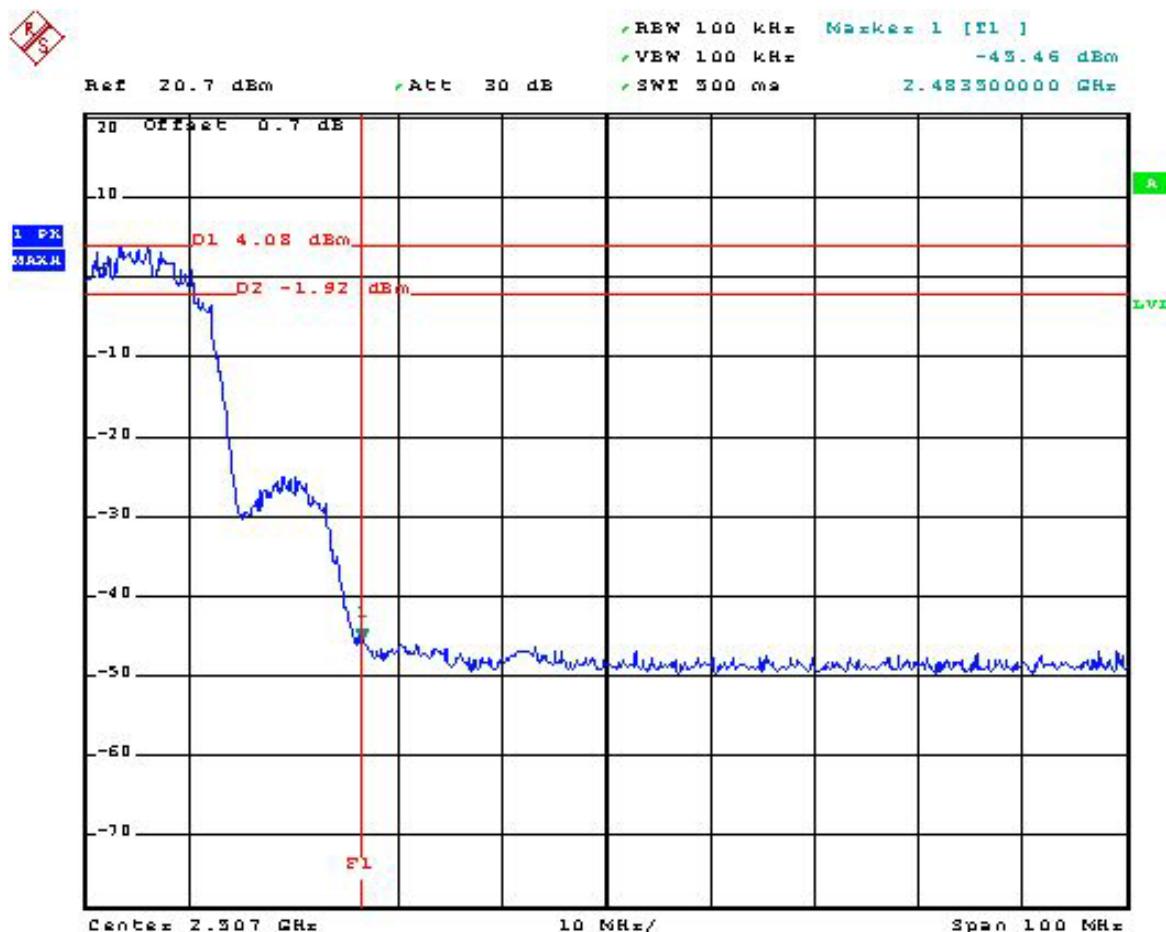
* Remark: The data above can refer to radiated emission in section 6.

5.4.7 20dB Band Edge

Mode1 : 802.11b Tx CH01 (2412MHz)



Mode 3 : 802.11b Tx CH11 (2462MHz)



5.5 Peak Output Power

5.5.1 Measuring Instruments :

As described in chapter 9 of this test report.

5.5.2 Test Procedure :

The antenna port (RF output) of the EUT was connected to the input (RF input) of a power meter. The power is equal to the reading level on power meter plus cable loss at the EUT antenna terminal.

5.5.3 Test Setup Layout :



5.5.4 Test Result :

- Mode 1~3 : 802.11b
- Temperature : 24°C
- Relative Humidity : 47 %

| Channel | Frequency | Measured Output Power | Limits |
|---------|-----------|-----------------------|-------------|
| | (MHz) | (dBm) | (Watt/dBm) |
| 01 | 2412 | 16.5 | 1W/30 dBm |
| 06 | 2437 | 16.3 | 1W/30 dBm |
| 11 | 2462 | 16.1 | 1W/30 dBm |

6. Test of Conducted Emission

Conducted emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 kHz and return leads of the EUT according to the methods defined in ANSI C63.4-2003 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

6.1. Major Measuring Instruments

| | |
|-----------------|---------------|
| ● Test Receiver | (R&S ESCS 30) |
| Attenuation | 10 dB |
| Start Frequency | 0.15 MHz |
| Stop Frequency | 30 MHz |
| IF Bandwidth | 9 kHz |

6.2. Test Procedures

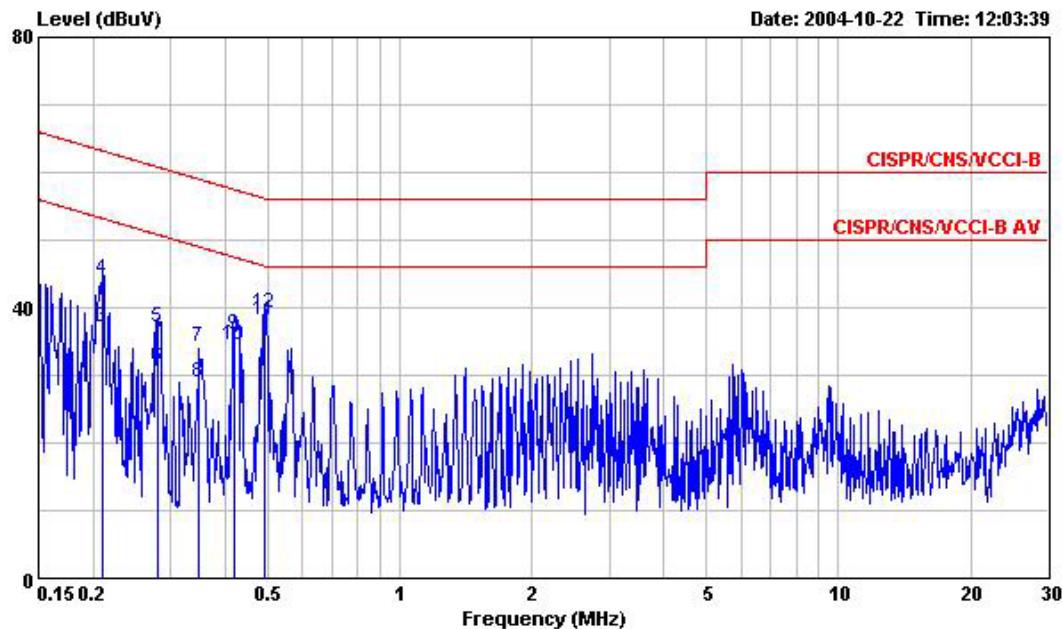
- a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- b. Connect EUT to the power port of the line impedance stabilization network (LISN).
- c. All the support units are connect to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 150 kHz to 30 MHz was searched.
- h. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

6.3. Test Result of Conducted Emission

6.3.1 Frequency Range of Test : 150kHz to 30 MHz

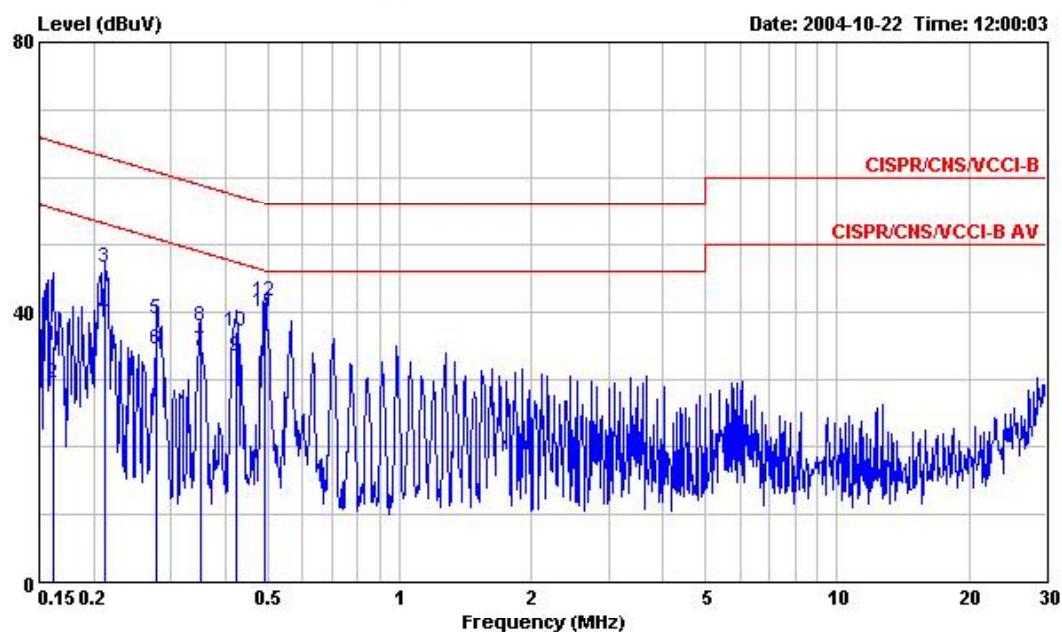
- Test Mode : Mode 1
- Temperature :27°C
- Relative Humidity : 57 %

■ The test that passed at minimum margin was marked by the frame in the following table.



Site : CO04-HY
 Condition : CISPR/CNS/VCCI-B 2004/004 LINE
 EUT : Tablet PC
 POWER: AC 120V/ 60Hz
 MODEL : Tablet PC
 MEMO : Link mode

| Freq | Level | Over | Limit | Read | LISN | Cable | |
|--------------|-------|--------|-------|-------|--------|-------|---------|
| | | Limit | Line | Level | Factor | Loss | Remark |
| MHz | dBuV | dB | dBuV | dBuV | dB | dB | |
| 1 0.1500000 | 20.57 | -35.43 | 56.00 | 20.46 | 0.10 | 0.01 | Average |
| 2 0.1500000 | 37.61 | -28.39 | 66.00 | 37.50 | 0.10 | 0.01 | QP |
| 3 0.2105510 | 37.15 | -16.03 | 53.18 | 37.04 | 0.10 | 0.01 | Average |
| 4 0.2105510 | 44.17 | -19.01 | 63.18 | 44.06 | 0.10 | 0.01 | QP |
| 5 0.2817820 | 37.03 | -23.73 | 60.76 | 36.92 | 0.10 | 0.01 | QP |
| 6 0.2817820 | 31.34 | -19.42 | 50.76 | 31.23 | 0.10 | 0.01 | Average |
| 7 0.3483010 | 34.25 | -24.75 | 59.00 | 34.13 | 0.10 | 0.02 | QP |
| 8 0.3483010 | 28.91 | -20.09 | 49.00 | 28.79 | 0.10 | 0.02 | Average |
| 9 0.4192670 | 36.04 | -21.42 | 57.46 | 35.92 | 0.10 | 0.02 | QP |
| 10 0.4192670 | 34.56 | -12.90 | 47.46 | 34.44 | 0.10 | 0.02 | Average |
| 11 0.4914980 | 38.15 | -7.99 | 46.14 | 38.03 | 0.10 | 0.02 | Average |
| 12 0.4914980 | 39.16 | -16.98 | 56.14 | 39.04 | 0.10 | 0.02 | QP |



Site : CO04-HY

Condition : CISPR/CNS/VCCI-B 2004/004 NEUTRAL

EUT : Tablet PC

POWER: AC 120V / 60Hz

MODEL : Tablet PC

MEMO : Link mode

| Freq | Level | Over | Limit | Read | LISN | Cable |
|--------------|-------|--------|-------|-------|--------|--------------|
| | | Line | dBuV | Level | Factor | Loss |
| MHz | dBuV | dB | dBuV | dBuV | dB | dB |
| 1 0.1615500 | 35.02 | -30.36 | 65.38 | 34.91 | 0.10 | 0.01 QP |
| 2 0.1615500 | 29.39 | -25.99 | 55.38 | 29.28 | 0.10 | 0.01 Average |
| 3 0.2116700 | 46.46 | -16.68 | 63.14 | 46.35 | 0.10 | 0.01 QP |
| 4 0.2116700 | 39.51 | -13.63 | 53.14 | 39.40 | 0.10 | 0.01 Average |
| 5 0.2788120 | 38.84 | -22.01 | 60.85 | 38.73 | 0.10 | 0.01 QP |
| 6 0.2788120 | 34.56 | -16.29 | 50.85 | 34.45 | 0.10 | 0.01 Average |
| 7 0.3501520 | 34.31 | -14.65 | 48.96 | 34.19 | 0.10 | 0.02 Average |
| 8 0.3501520 | 37.93 | -21.03 | 58.96 | 37.81 | 0.10 | 0.02 QP |
| 9 0.4237340 | 33.48 | -13.89 | 47.37 | 33.36 | 0.10 | 0.02 Average |
| 10 0.4237340 | 37.01 | -20.36 | 57.37 | 36.89 | 0.10 | 0.02 QP |
| 11 0.4914980 | 39.87 | -6.27 | 46.14 | 39.75 | 0.10 | 0.02 Average |
| 12 0.4914980 | 41.47 | -14.67 | 56.14 | 41.35 | 0.10 | 0.02 QP |

Test Engineer : Andy

Andy

7. Test of Radiated Emission

Radiated emissions from 30 MHz to 25 GHz were measured according to the methods defined in ANSI C63.4-2003. The EUT was placed, 0.8 meter above the ground plane, as shown in section 5.6.3. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions

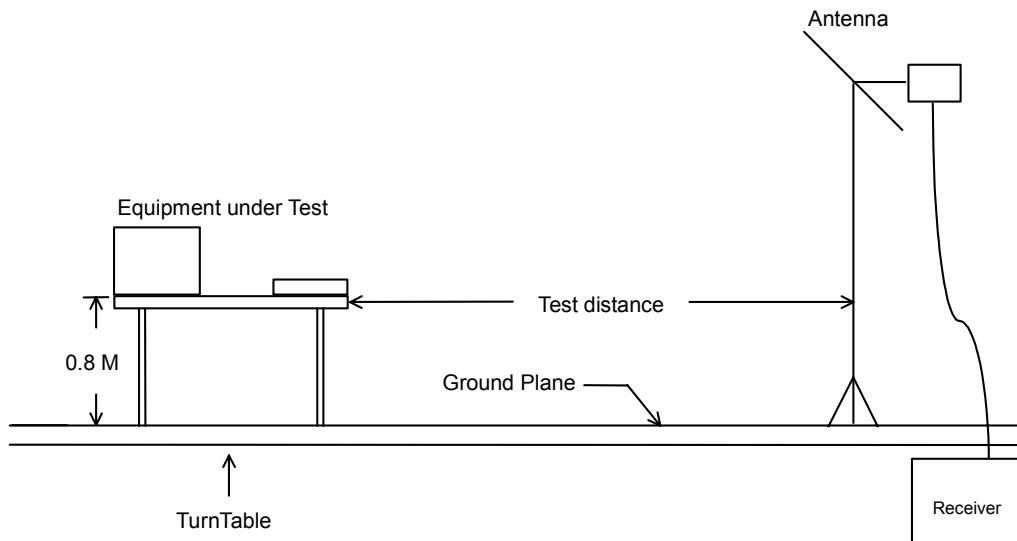
7.1. Major Measuring Instruments

- Amplifier (MITEQ AFS44)
 - RF Gain 40 dB
 - Signal Input 100 MHz to 26.5 GHz
- Amplifier (PA-103)
 - RF Gain 30 dB
 - Signal Input 100 MHz to 1 GHz
- Spectrum analyzer (R&S FSP40)
 - Attenuation 10 dB
 - Start Frequency 1 GHz
 - Stop Frequency 25 GHz
 - Resolution Bandwidth 1 MHz
 - Video Bandwidth 1 MHz
 - Signal Input 9 kHz to 40 GHz
- Spectrum analyzer (R&S FSP40)
 - Attenuation 10 dB
 - Start Frequency 30MHz
 - Stop Frequency 1 GHz
 - Resolution Bandwidth 120 kHz
 - Video Bandwidth 300 kHz
 - Signal Input 9 kHz to 40 GHz

7.2. Test Procedures

1. The EUT was placed on a rotatable table top 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
7. For testing below 1GHz, If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the quasi-peak method and reported.
8. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

7.3. Typical Test Setup Layout of Radiated Emission

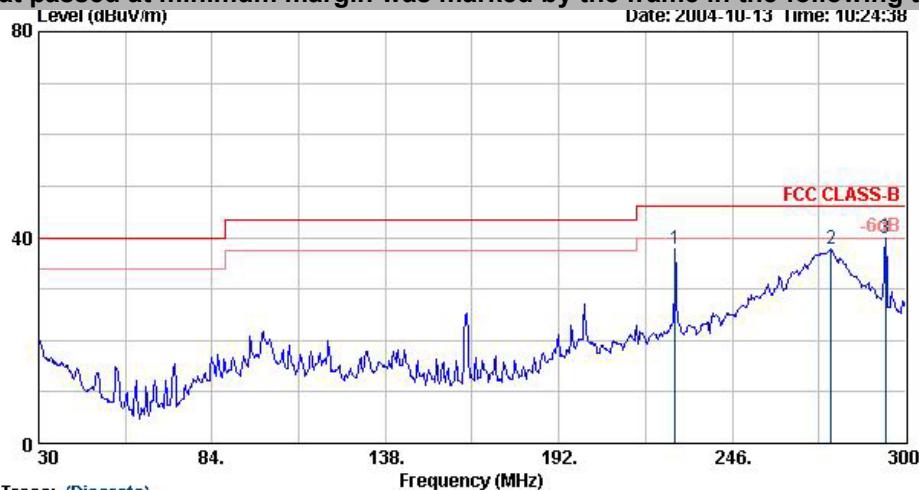


7.4. Test Result of Radiated Emission

7.4.1 Test Mode: Mode 1 (802.11b TX CH01)

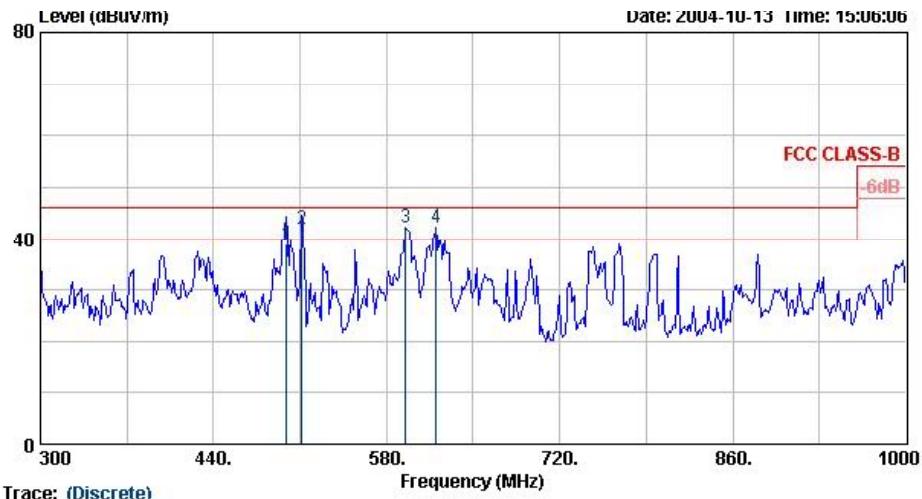
- Test Distance : 3 m
- Temperature : 27 °C
- Relative Humidity : 57 %
- Emission level (dB_{UV}/m) = 20 log Emission level (uV/m)
- Corrected Reading : Probe Factor + Cable Loss + Read Level - Preamp Factor = Level

■ The test that passed at minimum margin was marked by the frame in the following table.



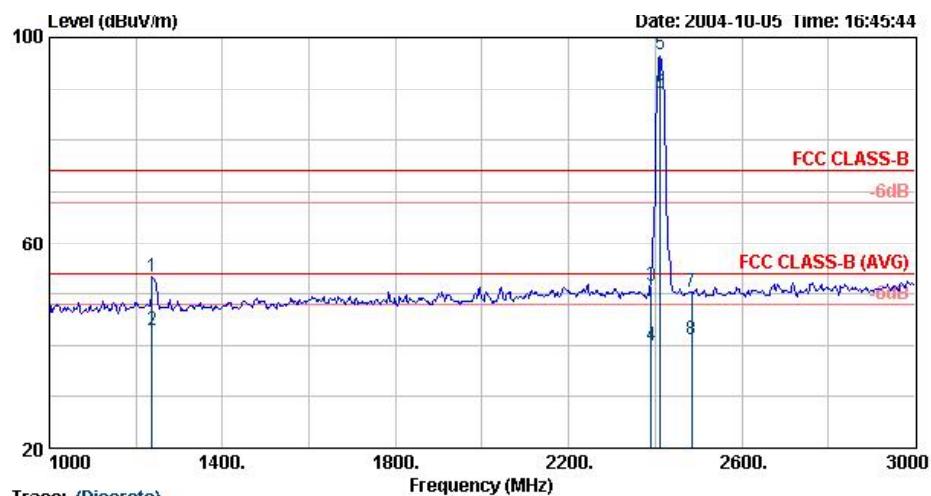
Site : 03CH06-HY
 Condition : FCC CLASS-B 3m BI LOG 2004 0629 HORIZONTAL
 EUT : Table PC
 Power : 120Vac/60Hz
 Model : Tablet PC
 Memo : TX CH01 2412MHz

| Freq | Level | Over Limit | | Read | Antenna | Preamp | Cable | Remark | Ant | Table | |
|------|--------|------------|---------------------|-------|---------------------|------------------|-------|--------|------|-------|-----|
| | | MHz | dB _{UV} /m | | | | | | | | |
| | | | | dB | dB _{UV} /m | dB _{UV} | dB/m | dB | cm | deg | |
| 1 @ | 228.18 | 37.74 | -8.26 | 46.00 | 58.28 | 9.38 | 31.80 | 1.87 | Peak | --- | --- |
| 2 @ | 276.78 | 37.77 | -8.23 | 46.00 | 55.12 | 12.50 | 31.97 | 2.12 | Peak | --- | --- |
| 3 @ | 293.79 | 39.74 | -6.26 | 46.00 | 56.60 | 12.86 | 31.94 | 2.22 | Peak | --- | --- |



Site : 03CH06-HY
 Condition : FCC CLASS-B 3m BI LOG 2004 0629 HORIZONTAL
 EUT : Table PC
 Power : 120Vac/60Hz
 Model : Tablet PC
 Memo : TX CH01 2412MHz

| | Freq | Level | Over | Limit | Read | Antenna | Preamp | Cable | Remark | Ant | Table |
|-----|--------|-------|-------|-------|-------|---------|--------|-------|--------|-----|-------|
| | | | MHz | dB | Line | Level | Factor | dB/m | | Pos | Pos |
| 1 @ | 498.80 | 38.87 | -7.13 | 46.00 | 50.12 | 17.30 | 31.41 | 2.87 | QP | --- | --- |
| 2 @ | 511.40 | 42.07 | -3.93 | 46.00 | 53.45 | 17.11 | 31.49 | 2.99 | QP | 100 | 331 |
| 3 @ | 595.40 | 42.12 | -3.88 | 46.00 | 51.41 | 18.70 | 31.25 | 3.27 | Peak | --- | --- |
| 4 @ | 619.90 | 42.21 | -3.79 | 46.00 | 51.80 | 18.76 | 31.53 | 3.18 | Peak | --- | --- |



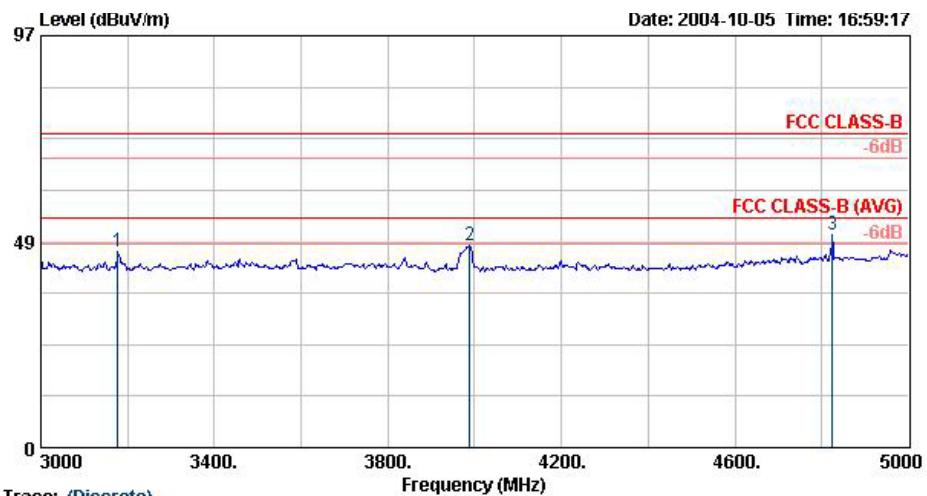
Site : 03CH06-HY
 Condition : FCC CLASS-B 3m HF-HORN AH-118 HORIZONTAL
 EUT : Table PC
 Power : 120Vac/60Hz
 Model : Tablet PC
 Memo : TX CH01 2412MHz

| | Freq | Level | Over Limit | Limit Line | Read | Antenna | Preamp | Cable | Remark | Ant | Table |
|-----|---------|-------|------------|------------|--------|---------|--------|-------|---------|-----|-------|
| | | | | | | | | | | Pos | Pos |
| | | | | | | | | | | cm | deg |
| 1 @ | 1238.00 | 53.16 | -20.84 | 74.00 | 59.29 | 24.72 | 33.19 | 2.33 | Peak | --- | --- |
| 2 @ | 1238.00 | 43.02 | -10.98 | 54.00 | 49.15 | 24.72 | 33.19 | 2.33 | Average | --- | --- |
| 3 @ | 2390.00 | 51.38 | -22.62 | 74.00 | 55.51 | 28.40 | 35.85 | 3.32 | Peak | --- | --- |
| 4 @ | 2390.00 | 39.80 | -14.20 | 54.00 | 43.93 | 28.40 | 35.85 | 3.32 | Average | --- | --- |
| 5 @ | 2412.00 | 96.59 | | | 100.70 | 28.41 | 35.85 | 3.32 | Peak | 141 | 262 |
| 6 @ | 2412.00 | 89.29 | | | 93.40 | 28.41 | 35.85 | 3.32 | Average | --- | --- |
| 7 @ | 2483.50 | 50.35 | -23.65 | 74.00 | 54.43 | 28.48 | 35.94 | 3.38 | Peak | --- | --- |
| 8 @ | 2483.50 | 41.04 | -12.96 | 54.00 | 45.12 | 28.48 | 35.94 | 3.38 | Average | --- | --- |

Remark: #5 and 6 Fundamental Signal

FCC TEST REPORT

Report No. :F483149

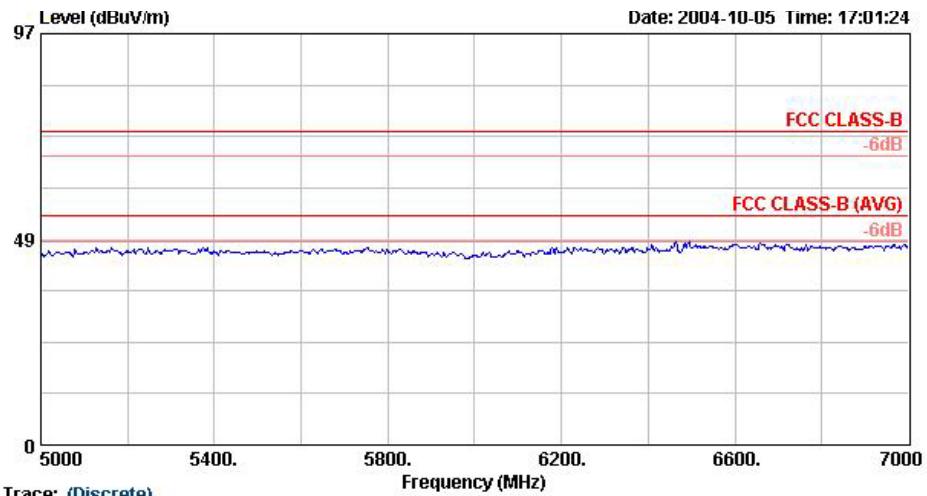


Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-HORN AH-118 HORIZONTAL
EUT : Table PC
Power : 120Vac/60Hz
Model : Tablet PC
Memo : TX CH01 2412MHz

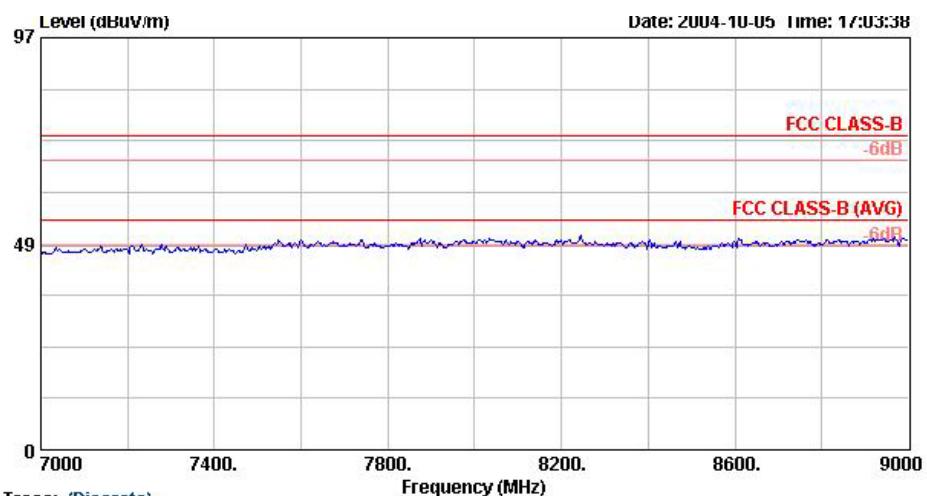
| | Freq MHz | Level dBuV/m | Over Limit dB | Limit Line dBuV/m | Read Level dBuV | Antenna Factor | Preamp Factor | Cable Loss dB | Remark | Ant Pos | Table Pos |
|-----|-------------|-----------------|---------------------|-------------------------|-----------------------|-------------------|------------------|---------------------|--------|------------|--------------|
| 1 @ | 3178.00 | 46.30 | -27.70 | 74.00 | 49.30 | 30.00 | 36.67 | 3.67 | Peak | --- | --- |
| 2 @ | 3988.00 | 47.78 | -26.22 | 74.00 | 50.40 | 30.50 | 37.41 | 4.29 | Peak | --- | --- |
| 3 @ | 4824.00 | 49.95 | -24.05 | 74.00 | 48.59 | 32.36 | 35.78 | 4.77 | Peak | --- | --- |

FCC TEST REPORT

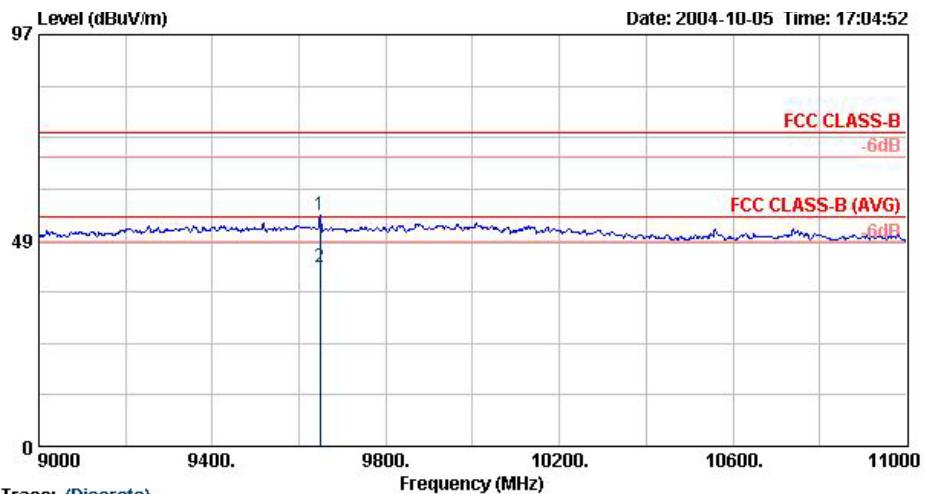
Report No. :F483149



Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-HORN AH-118 HORIZONTAL
EUT : Table PC
Power : 120Vac/60Hz
Model : Tablet PC
Memo : TX CH01 2412MHz



Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-HORN AH-118 HORIZONTAL
EUT : Table PC
Power : 120Vac/60Hz
Model : Tablet PC
Memo : TX CH01 2412MHz

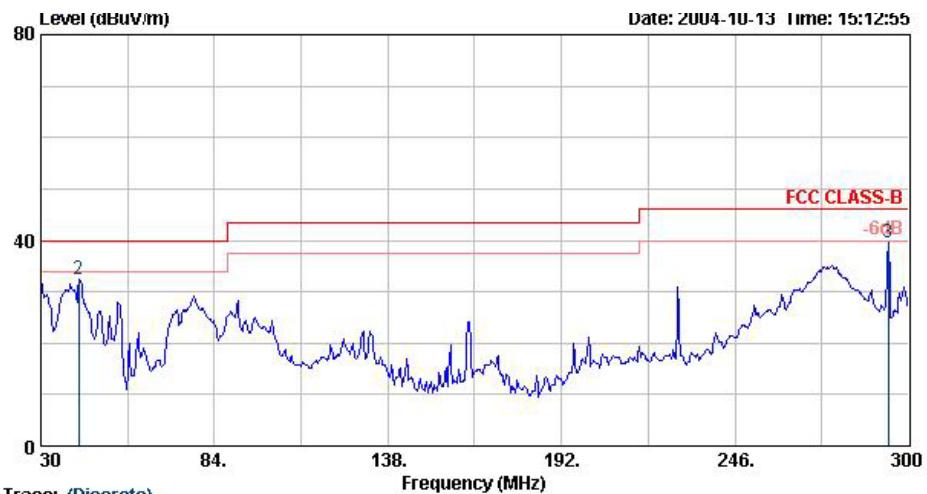


Site : 03CH06-HY
 Condition : FCC CLASS-B 3m HF-HORN AH-118 HORIZONTAL
 EUT : Table PC
 Power : 120Vac/60Hz
 Model : Tablet PC
 Memo : TX CH01 2412MHz

| | Freq | Level | Over Limit | Line | Read | Antenna | Preamp | Cable | Table |
|-----|---------|--------|------------|--------|-------|---------|--------|-------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | Loss | Pos |
| 1 @ | 9648.00 | 54.59 | -19.41 | 74.00 | 46.01 | 38.16 | 37.50 | 7.92 | Peak |
| 2 @ | 9648.00 | 42.20 | -11.80 | 54.00 | 33.63 | 38.16 | 37.50 | 7.92 | Average |

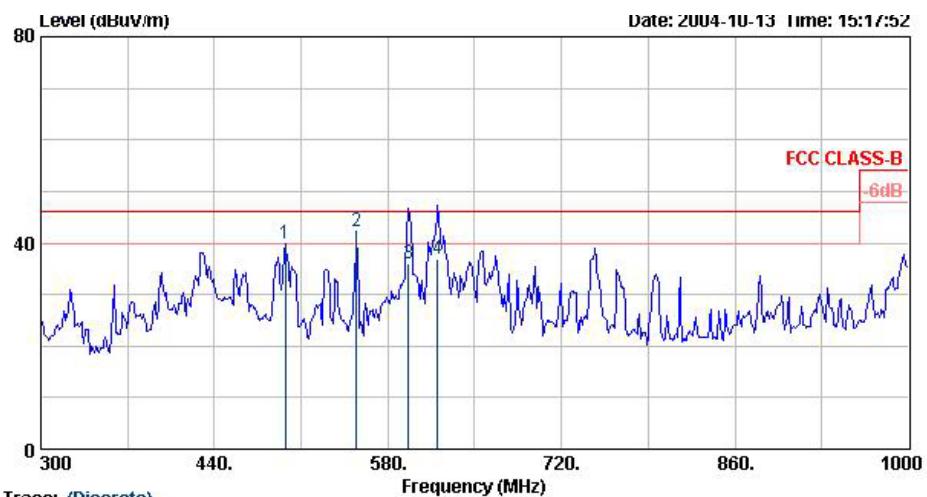
FCC TEST REPORT

Report No. :F483149



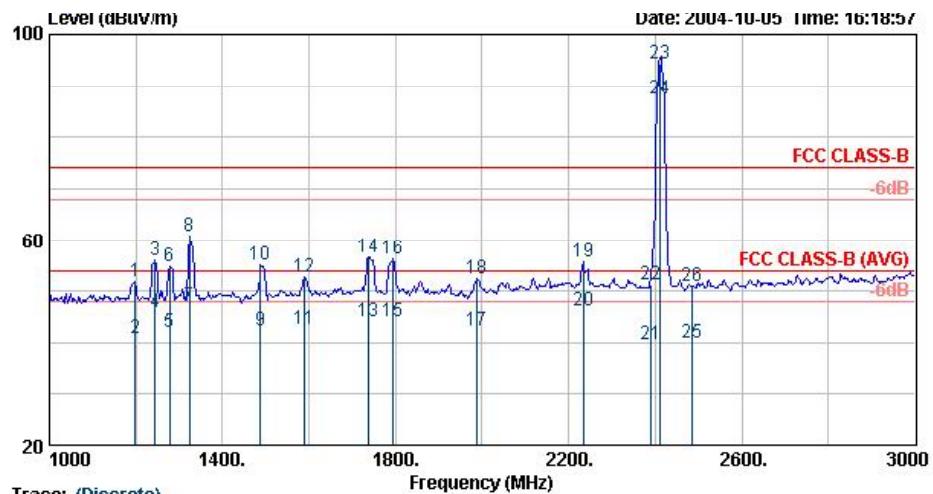
Site : 03CH06-HY
Condition : FCC CLASS-B 3m BI LOG 2004 0629 VERTICAL
EUT : Table PC
Power : 120Vac/60Hz
Model : Tablet PC
Memo : TX CH01 2412MHz

| | Freq MHz | Level dBuV/m | Over Limit dB | Limit Line dBuV/m | Read Level dBuV | Antenna Factor | Preamp Factor | Cable Loss dB | Remark | Ant Pos | Table Pos |
|-----|-------------|-----------------|---------------------|-------------------------|-----------------------|-------------------|------------------|---------------------|--------|------------|--------------|
| | | | | | | | | | | cm | deg |
| 1 @ | 30.00 | 32.40 | -7.60 | 40.00 | 45.66 | 17.90 | 32.12 | 0.96 | Peak | --- | --- |
| 2 @ | 41.88 | 32.34 | -7.66 | 40.00 | 51.99 | 11.49 | 32.22 | 1.08 | Peak | --- | --- |
| 3 @ | 293.79 | 39.58 | -6.42 | 46.00 | 56.44 | 12.86 | 31.94 | 2.22 | Peak | --- | --- |



Site : 03CH06-HY
 Condition : FCC CLASS-B 3m BI LOG 2004 0629 VERTICAL
 EUT : Table PC
 Power : 120Vac/60Hz
 Model : Tablet PC
 Memo : TX CH01 2412MHz

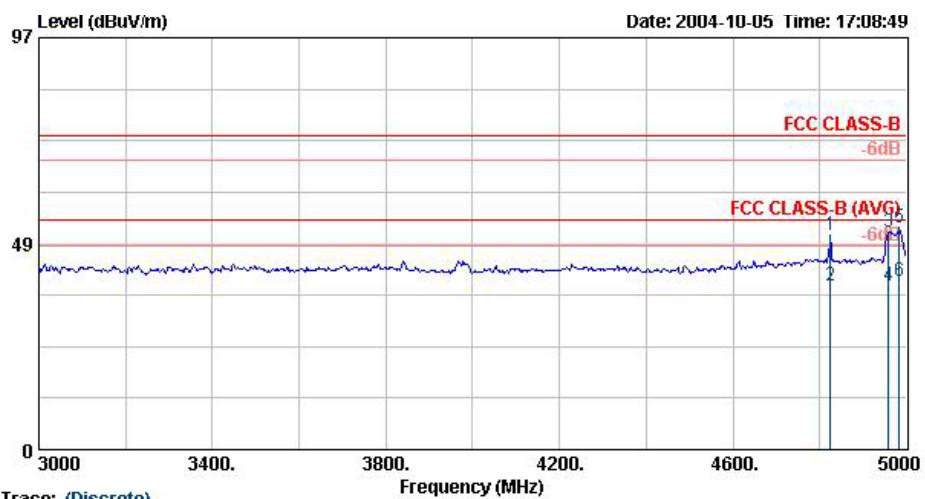
| | Freq | Level | Over | Limit | Read | Antenna | Preamp | Cable | Remark | Ant | Table |
|-----|--------|--------|--------|--------|-------|---------|--------|-------|--------|-----|-------|
| | | | Line | Limit | Level | Factor | Factor | Loss | | Pos | Pos |
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | cm | deg |
| 1 @ | 497.40 | 39.75 | -6.25 | 46.00 | 51.03 | 17.30 | 31.43 | 2.85 | Peak | --- | --- |
| 2 @ | 554.80 | 42.16 | -3.84 | 46.00 | 51.73 | 18.69 | 31.48 | 3.22 | Peak | --- | --- |
| 3 @ | 596.80 | 35.87 | -10.13 | 46.00 | 45.12 | 18.70 | 31.26 | 3.31 | QP | --- | --- |
| 4 @ | 619.90 | 36.95 | -9.05 | 46.00 | 46.54 | 18.76 | 31.53 | 3.18 | QP | --- | --- |



Site : 03CH06-HY
 Condition : FCC CLASS-B 3m HF-HORN AH-118 VERTICAL
 EUT : Table PC
 Power : 120Vac/60Hz
 Model : Tablet PC
 Memo : TX CH01 2412MHz

| Freq | Level | Over Limit | Limit Line | Read | | Ant | Table | | |
|------|---------|------------|------------|---------|--------|-------|-------|------|---------|
| | | | | Antenna | Preamp | | | Pos | Pos |
| MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg |
| 1 @ | 1198.00 | 51.72 | -22.28 | 74.00 | 57.90 | 24.62 | 33.11 | 2.30 | Peak |
| 2 @ | 1198.00 | 40.94 | -13.06 | 54.00 | 47.12 | 24.62 | 33.11 | 2.30 | Average |
| 3 @ | 1244.00 | 56.13 | -17.87 | 74.00 | 62.32 | 24.72 | 33.27 | 2.36 | Peak |
| 4 @ | 1244.00 | 45.96 | -8.04 | 54.00 | 52.15 | 24.72 | 33.27 | 2.36 | Average |
| 5 @ | 1278.00 | 41.98 | -12.02 | 54.00 | 48.12 | 24.83 | 33.35 | 2.38 | Average |
| 6 @ | 1278.00 | 54.76 | -19.24 | 74.00 | 60.90 | 24.83 | 33.35 | 2.38 | Peak |
| 7 @ | 1324.00 | 46.95 | -7.05 | 54.00 | 53.04 | 24.98 | 33.52 | 2.44 | Average |
| 8 @ | 1324.00 | 60.67 | -13.33 | 74.00 | 66.76 | 24.98 | 33.52 | 2.44 | Peak |
| 9 @ | 1488.00 | 42.30 | -11.70 | 54.00 | 48.15 | 25.50 | 33.95 | 2.60 | Average |
| 10 @ | 1488.00 | 55.01 | -18.99 | 74.00 | 60.86 | 25.50 | 33.95 | 2.60 | Peak |
| 11 @ | 1588.00 | 42.65 | -11.35 | 54.00 | 48.12 | 26.00 | 34.16 | 2.69 | Average |
| 12 @ | 1588.00 | 52.72 | -21.28 | 74.00 | 58.19 | 26.00 | 34.16 | 2.69 | Peak |
| 13 @ | 1738.00 | 43.98 | -10.02 | 54.00 | 49.23 | 26.67 | 34.74 | 2.82 | Average |
| 14 @ | 1738.00 | 56.71 | -17.29 | 74.00 | 61.95 | 26.67 | 34.74 | 2.82 | Peak |
| 15 @ | 1794.00 | 44.07 | -9.93 | 54.00 | 49.15 | 27.00 | 34.95 | 2.87 | Average |
| 16 @ | 1794.00 | 56.31 | -17.69 | 74.00 | 61.39 | 27.00 | 34.95 | 2.87 | Peak |
| 17 @ | 1988.00 | 42.26 | -11.74 | 54.00 | 47.62 | 27.92 | 36.32 | 3.04 | Average |
| 18 @ | 1988.00 | 52.46 | -21.54 | 74.00 | 57.82 | 27.92 | 36.32 | 3.04 | Peak |
| 19 @ | 2234.00 | 55.54 | -18.46 | 74.00 | 59.35 | 28.24 | 35.25 | 3.20 | Peak |
| 20 @ | 2234.00 | 46.32 | -7.68 | 54.00 | 50.12 | 28.24 | 35.25 | 3.20 | Average |
| 21 @ | 2390.00 | 39.52 | -14.48 | 54.00 | 43.65 | 28.40 | 35.85 | 3.32 | Average |
| 22 @ | 2390.00 | 51.08 | -22.92 | 74.00 | 55.21 | 28.40 | 35.85 | 3.32 | Peak |
| 23 @ | 2412.00 | 94.48 | | | 98.59 | 28.41 | 35.85 | 3.32 | Peak |
| 24 @ | 2412.00 | 87.41 | | | 91.52 | 28.41 | 35.85 | 3.32 | Average |
| 25 @ | 2483.50 | 40.07 | -13.93 | 54.00 | 44.15 | 28.48 | 35.94 | 3.38 | Average |
| 26 @ | 2483.50 | 51.00 | -23.00 | 74.00 | 55.08 | 28.48 | 35.94 | 3.38 | Peak |

Remark: #23 and 24 Fundamental Signal

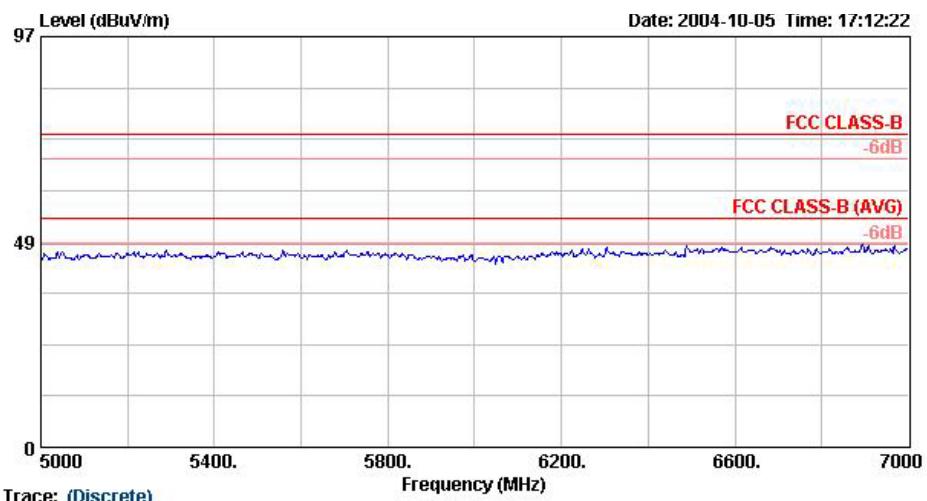


Site : 03CH06-HY
 Condition : FCC CLASS-B 3m HF-HORN AH-118 VERTICAL
 EUT : Table PC
 Power : 120Vac/60Hz
 Model : Tablet PC
 Memo : TX CH01 2412MHz

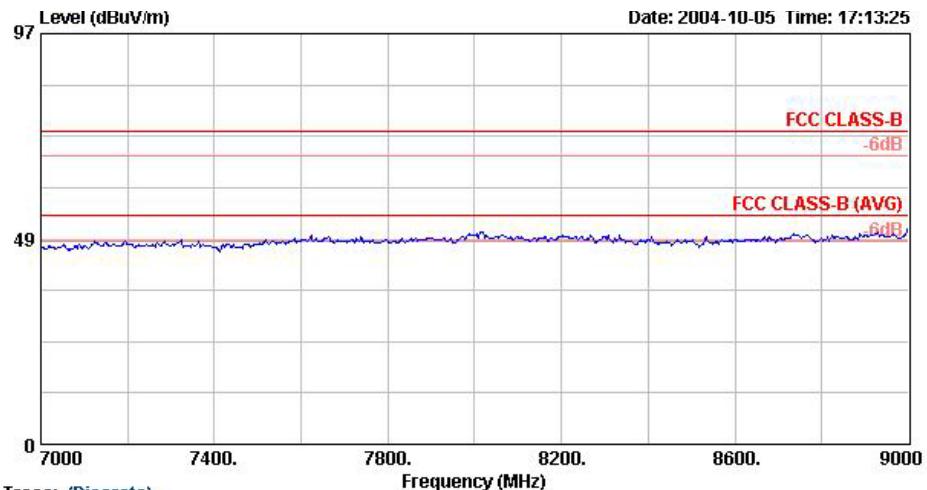
| | Freq | Level | Over | Limit | Read | Antenna | Preamp | Cable | Remark | Ant | Table |
|-----|---------|--------|--------|--------|-------|---------|--------|-------|---------|-----|-------|
| | | | Line | Limit | Level | Factor | Factor | Loss | | Pos | Pos |
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | cm | deg |
| 1 @ | 4824.00 | 50.57 | -23.43 | 74.00 | 49.22 | 32.36 | 35.78 | 4.77 | Peak | --- | --- |
| 2 @ | 4824.00 | 38.50 | -15.50 | 54.00 | 37.15 | 32.36 | 35.78 | 4.77 | Average | --- | --- |
| 3 @ | 4958.00 | 51.34 | -22.66 | 74.00 | 50.08 | 33.27 | 36.88 | 4.87 | Peak | --- | --- |
| 4 @ | 4958.00 | 38.71 | -15.29 | 54.00 | 37.45 | 33.27 | 36.88 | 4.87 | Average | --- | --- |
| 5 @ | 4984.00 | 52.11 | -21.89 | 74.00 | 50.94 | 33.39 | 37.10 | 4.89 | Peak | --- | --- |
| 6 @ | 4984.00 | 39.51 | -14.49 | 54.00 | 38.34 | 33.39 | 37.10 | 4.89 | Average | --- | --- |

FCC TEST REPORT

Report No. :F483149



Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-HORN AH-118 VERTICAL
EUT : Table PC
Power : 120Vac/60Hz
Model : Tablet PC
Memo : TX CH01 2412MHz



Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-HORN AH-118 VERTICAL
EUT : Table PC
Power : 120Vac/60Hz
Model : Tablet PC
Memo : TX CH01 2412MHz