



# FCC Test Report

for

## 47 CFR Part 15 Subpart C

Equipment : Notebook PC

Trade Name : MTC; GETAC

Model No. : B300

FCC ID : MAU303

Filing Type : Certification

Applicant : MiTAC Technology Corp.

9<sup>th</sup>. FL., No.75, Ming Sheng E. Rd., Sec.3, Taipei, Taiwan

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- The data shown in this test report were carried out on Nov. 17, 2007 at **Sporton International Inc. LAB.**
- Report No.: FR852118B, Report Version: Rev. 01.

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***SPORTON International Inc.***

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***SPORTON International Inc.***

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Report Version: Rev. 01



## Table of Contents

|                                                            |            |
|------------------------------------------------------------|------------|
| History of this test report .....                          | ii         |
| <b>1. General Description of Equipment under Test.....</b> | <b>1</b>   |
| 1.1 Applicant.....                                         | 1          |
| 1.2 Manufacturer .....                                     | 1          |
| 1.3 Basic Description of Equipment under Test.....         | 1          |
| 1.4 Feature of Equipment under Test.....                   | 2          |
| <b>2. Test Configuration of Equipment under Test .....</b> | <b>4</b>   |
| 2.1 Test Manner .....                                      | 4          |
| 2.2 Test Mode .....                                        | 5          |
| 2.3 Ancillary Equipment List .....                         | 5          |
| 2.4 Connection Diagram of Test System .....                | 6          |
| <b>3. RF Utility .....</b>                                 | <b>7</b>   |
| <b>4. General Information of Test .....</b>                | <b>8</b>   |
| 4.1 Test Voltage .....                                     | 8          |
| 4.2 Standard for Methods of Measurement .....              | 8          |
| 4.3 Test Compliance.....                                   | 8          |
| 4.4 Frequency Range.....                                   | 8          |
| 4.5 Test Distance.....                                     | 8          |
| <b>5. Test Data and Test Result .....</b>                  | <b>9</b>   |
| 5.1 List of Measurements and Examinations.....             | 9          |
| 5.2 6dB Bandwidth Measurement .....                        | 10         |
| 5.3 Power Spectral Density Measurement .....               | 29         |
| 5.4 Band Edges Measurement.....                            | 49         |
| 5.5 Peak Output Power Measurement.....                     | 68         |
| 5.6 Conducted Emission.....                                | 71         |
| 5.7 Radiated Emission Measurement.....                     | 74         |
| 5.8 Antenna Requirements.....                              | 148        |
| <b>6. List of Measuring Equipments.....</b>                | <b>149</b> |
| <b>7. Uncertainty Evaluation .....</b>                     | <b>150</b> |
| <b>Appendix A. Photographs of EUT</b>                      |            |
| <b>Appendix B. Setup Photographs</b>                       |            |



## History of this test report

Report Issue Date: May 28, 2008

| Report No. | Description |
|------------|-------------|
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## 1. General Description of Equipment under Test

### 1.1 Applicant

**MiTAC Technology Corp.**

9<sup>th</sup>. FL., No.75, Ming Sheng E. Rd., Sec.3, Taipei, Taiwan

### 1.2 Manufacturer

**GeTAC Technology(Kunshan) LTD.**

No.269, 2nd Road, Export Processing Zone, Changjiang South Road, Kunshan, Jiangsu, P.R.C.

### 1.3 Basic Description of Equipment under Test

|                   |                           |                                                     |
|-------------------|---------------------------|-----------------------------------------------------|
| <b>Equipment</b>  |                           | Notebook PC                                         |
| <b>Trade Name</b> |                           | MTC; GETAC                                          |
| <b>Model Name</b> |                           | B300                                                |
| <b>AC Adapter</b> | <b>Brand Name</b>         | Delta                                               |
|                   | <b>Model Name</b>         | ADP-90SB BB                                         |
|                   | <b>Power Rating</b>       | I/P : 100-240Vac, 1.5A, 50-60Hz; O/P : 19Vdc, 4.74A |
|                   | <b>AC Power Cord Type</b> | 1.73meter shielded with ferrite core                |
| <b>Battery</b>    | <b>Brand Name</b>         | SAYNO                                               |
|                   | <b>Model Name</b>         | BP3S3P2550(P)                                       |
|                   | <b>Rating</b>             | 10.8Vdc, 7.65Ah                                     |
|                   | <b>Type</b>               | 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**

| Product Feature & Specification                         |                                                                                                                                                                                       |  |               |
|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------|
| DUT Type :                                              | Notebook PC                                                                                                                                                                           |  |               |
| Trade Name :                                            | MTC; GETAC                                                                                                                                                                            |  |               |
| Model Name :                                            | B300                                                                                                                                                                                  |  |               |
| FCC ID :                                                | MAU303                                                                                                                                                                                |  |               |
| Freq. Range/Carrier Freqs. :                            | 802.11a/n : 5725MHz ~ 5850MHz (Band III)<br>802.11b/g/n : 2400MHz ~ 2483.5MHz                                                                                                         |  |               |
| Maximum Output Power to Antenna :<br>(Normal condition) | 802.11a : 21.09 dBm (Band III)<br>802.11b : 14.66 dBm<br>802.11g : 21.66 dBm<br>802.11n (g) : 23.94 dBm<br>802.11n (a) : 24.83 dBm (Band III, BW 20M)<br>21.89 dBm (Band III, BW 40M) |  |               |
| Antenna Type :                                          | WLAN : PIFA Antenna                                                                                                                                                                   |  |               |
| Antenna Gain :                                          | WLAN : 1.55 dBi                                                                                                                                                                       |  |               |
| HW Version :                                            | R01                                                                                                                                                                                   |  |               |
| Type of Modulation :                                    | WLAN : DSSS / OFDM                                                                                                                                                                    |  |               |
| Function Type :                                         | Transmitter                                                                                                                                                                           |  | Transceiver V |
| DUT Stage :                                             | Identical Prototype                                                                                                                                                                   |  |               |



| Specification of Notebook |                                                                |                                                               |
|---------------------------|----------------------------------------------------------------|---------------------------------------------------------------|
| Model                     | Mode 1 (E100)                                                  | Mode 3 (E100N)                                                |
| LCD                       | L5S30348P01, 13.1" XGA, ESPON                                  | Sanyo Panel + Sunlight readable<br>L5S30348P01, 13.3", EPSON, |
| CPU                       | L7300                                                          | L7500                                                         |
| ODD                       | SUPER MULIT DVD R9 DEVICE;UJ850UPK-AG,CS F/W:1.6,W/O BEZEL,KME |                                                               |
| HDD                       | MHY2080BH,2.5",80GB,5400RPM,SATA,FUJI<br>TSU                   | MHY2120BH,2.5",120GB,5400RPM,SATA,FU<br>JITSU                 |
| Memory                    | 1GB,HYS64T128021EDL-3S-B2,QIMONDA                              | HYMP512S64CP8-Y5,DDR2 667 1G,HYNIX<br>(x 2)                   |
| Battery                   | BP3S3P2550(P)<br>LI-ION,10.8V/7.65AH,BQ20z90,PAN,9CELLS,3S3P   |                                                               |
| ADP                       | Delta ADP-90SB BB                                              | Delta ADP-90SB BB                                             |
| MDC                       | RD02-D330,AZALIA,BILLIONTON                                    |                                                               |
| WLAN                      | Intel wireless 4965 802.11a/g/n (MOW1)                         | Intel wireless 4965 802.11a/g/n (MOW2)                        |
| Bluetooth                 | Billionton GUBTCR42M                                           |                                                               |
| GPS                       | ET313,GPS ENGINE BOARD,GLOBALSAT,GPI                           |                                                               |
| 3G                        | SIERRA MC8785V                                                 |                                                               |

## 2. Test Configuration of Equipment under Test

### 2.1 Test Manner

- 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.
- Power table for each modes are as below:

#### 802.11b

| Channel | Frequency (MHz) | Data Rate (Mbps) |              |       |       |
|---------|-----------------|------------------|--------------|-------|-------|
|         |                 | 1                | 2            | 5.5   | 11    |
| CH 01   | 2412 MHz        | 14.30            | 14.06        | 14.21 | 14.25 |
| CH 06   | 2437 MHz        | 14.10            | 14.33        | 14.52 | 14.44 |
| CH 11   | 2462 MHz        | 14.18            | <b>14.66</b> | 14.35 | 14.05 |

#### 802.11g

| Channel | Frequency (MHz) | Data Rate (Mbps) |       |       |       |       |       |       |       |
|---------|-----------------|------------------|-------|-------|-------|-------|-------|-------|-------|
|         |                 | 6                | 9     | 12    | 18    | 24    | 36    | 48    | 54    |
| CH 01   | 2412 MHz        | 20.50            | 20.72 | 21.32 | 20.89 | 21.15 | 21.06 | 20.70 | 20.10 |
| CH 06   | 2437 MHz        | 20.67            | 20.49 | 20.58 | 20.52 | 20.78 | 20.24 | 20.84 | 20.85 |
| CH 11   | 2462 MHz        | <b>21.66</b>     | 21.09 | 21.34 | 21.12 | 21.25 | 21.00 | 20.74 | 20.71 |

#### 802.11a

| Channel | Frequency (MHz) | Data Rate (Mbps) |              |       |       |       |       |       |       |
|---------|-----------------|------------------|--------------|-------|-------|-------|-------|-------|-------|
|         |                 | 6                | 9            | 12    | 18    | 24    | 36    | 48    | 54    |
| CH 149  | 5745 MHz        | 20.57            | <b>21.09</b> | 20.85 | 21.03 | 20.82 | 20.73 | 20.68 | 18.59 |
| CH 157  | 5785 MHz        | 20.61            | 20.35        | 20.17 | 19.93 | 19.91 | 20.42 | 20.07 | 18.37 |
| CH 165  | 5825 MHz        | 20.54            | 20.35        | 20.79 | 20.78 | 20.97 | 20.23 | 20.03 | 18.44 |

#### 802.11n(g) (BW 20M)

| Channel | Frequency (MHz) | Data Rate (Mbps) |       |       |       |       |       |       |       |
|---------|-----------------|------------------|-------|-------|-------|-------|-------|-------|-------|
|         |                 | 6                | 9     | 12    | 18    | 24    | 36    | 48    | 54    |
| CH 01   | 2412 MHz        | 22.31            | 22.99 | 22.57 | 22.80 | 22.60 | 22.67 | 22.96 | 22.95 |
| CH 06   | 2437 MHz        | 22.42            | 22.76 | 22.88 | 23.02 | 23.00 | 22.82 | 23.06 | 22.86 |
| CH 11   | 2462 MHz        | <b>23.99</b>     | 23.60 | 23.32 | 23.24 | 23.80 | 23.24 | 23.94 | 23.66 |

#### 802.11n(a) (BW 20M)

| Channel | Frequency (MHz) | Data Rate (Mbps) |       |       |       |       |              |       |
|---------|-----------------|------------------|-------|-------|-------|-------|--------------|-------|
|         |                 | 6                | 9     | 12    | 18    | 24    | 36           | 48    |
| CH 149  | 5745 MHz        | 24.18            | 24.05 | 24.51 | 24.40 | 24.76 | <b>24.83</b> | 24.55 |
| CH 157  | 5785 MHz        | 23.98            | 24.14 | 24.26 | 24.37 | 24.55 | 24.48        | 24.63 |
| CH 165  | 5825 MHz        | 23.89            | 23.85 | 23.85 | 24.18 | 24.07 | 23.89        | 23.89 |



802.11n(a) (BW 40M)

| Channel | Frequency (MHz) | Data Rate (Mbps) |       |       |       |       |       |       |              |
|---------|-----------------|------------------|-------|-------|-------|-------|-------|-------|--------------|
|         |                 | 6                | 9     | 12    | 18    | 24    | 36    | 48    | 54           |
| CH 151  | 5755 MHz        | 21.76            | 21.86 | 21.79 | 21.86 | 21.85 | 21.74 | 21.82 | <b>21.89</b> |
| CH 159  | 5795 MHz        | 21.87            | 21.71 | 21.57 | 21.46 | 21.74 | 21.76 | 21.75 | 21.68        |

- c. The highest RF output power's test modes were chosen for testing.

## 2.2 Test Mode

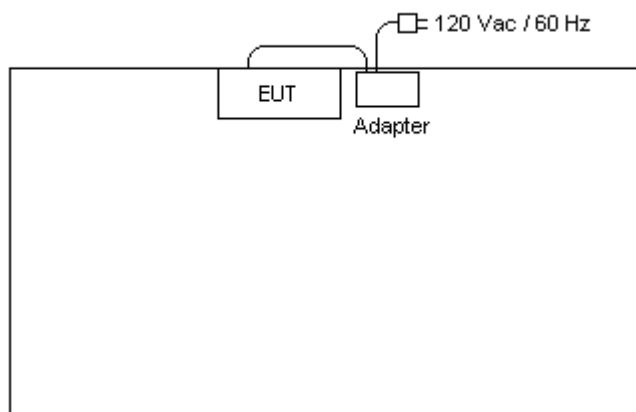
| Application                      | Test Mode                                           |                               |                       |
|----------------------------------|-----------------------------------------------------|-------------------------------|-----------------------|
| Radiated Emission / RF Conducted | <b>802.11b</b>                                      | <b>802.11g</b>                | <b>802.11a</b>        |
|                                  | Mode1:CH01_2412MHz                                  | Mode4:CH01_2412MHz            | Mode 7: CH149_5745MHz |
|                                  | Mode2:CH06_2437MHz                                  | Mode5:CH06_2437MHz            | Mode 8: CH157_5785MHz |
|                                  | Mode3:CH11_2462MHz                                  | Mode6:CH11_2462MHz            | Mode 9: CH165_5825MHz |
|                                  | <b>802.11n(g)</b>                                   | <b>802.11n(a)</b>             |                       |
|                                  | Mode 10: CH01_2412 MHz(BW 20M)                      | Mode13: CH149_5745MHz(BW 20M) |                       |
|                                  | Mode 11: CH06_2437 MHz(BW 20M)                      | Mode14: CH157_5785MHz(BW 20M) |                       |
| Co-location                      | Mode 12: CH11_2462 MHz(BW 20M)                      | Mode15: CH165_5825MHz(BW 20M) |                       |
|                                  |                                                     | Mode16: CH151_5755MHz(BW 40M) |                       |
|                                  |                                                     | Mode17: CH159_5795MHz(BW 40M) |                       |
|                                  | Mode 18 : 802.11n(a) (BW 20M) Tx_Ch165 + BT Tx_Ch78 |                               |                       |
|                                  |                                                     |                               |                       |
| Conducted Emission               | Mode 1: BT Link + WLAN Link + Adapter               |                               |                       |

## 2.3 Ancillary Equipment List

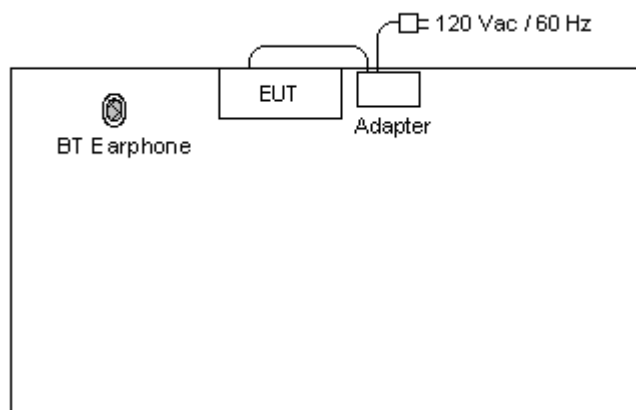
| Item | Equipment          | Trade Name | Model Name | FCC ID    | Data Cable | Power Cord |
|------|--------------------|------------|------------|-----------|------------|------------|
| 1.   | Bluetooth Earphone | Engotech   | ET-BH111   | PQY471087 | N/A        | N/A        |

## 2.4 Connection Diagram of Test System

### <Radiated Emission>



### <Conducted Emission>





### **3. RF Utility**

The programmed RF Utility is installed in EUT to provide channel selection, power level, data rate and the application type. RF Utility can send transmitting signal for all testing.



## **4. General Information of Test**

Test Site Location : No. 52, Hwa Ya 1<sup>st</sup> Rd., Hwa Ya Technology Park,  
Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.  
TEL : 886-3-327-3456  
FAX : 886-3-328-4978  
Test Site No : CO04-HY, 03CH04-HY  
FCC Designation No : TW1022

### **4.1 Test Voltage**

AC 120V / 60Hz

### **4.2 Standard for Methods of Measurement**

ANSI C63.4-2003

### **4.3 Test Compliance**

47 CFR Part 15 Subpart C

### **4.4 Frequency Range**

- 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. Test Data and Test Result

### 5.1 List of Measurements and Examinations

The Emission Mode: Wireless LAN

| FCC Rule               | Description of Test                       | Result |
|------------------------|-------------------------------------------|--------|
| 15.207                 | Conducted Emission                        | Pass   |
| 15.247(a)(2)           | 6dB Bandwidth                             | Pass   |
| 15.247(b)(1)           | Maximum Peak Output Power                 | Pass   |
| 15.209(a)<br>15.247(d) | Radiated Emission                         | Pass   |
| 15.247(d)              | 100 KHz Bandwidth of Frequency Band Edges | Pass   |
| 15.247(e)              | Power Spectral Density                    | Pass   |
| 15.203<br>15.247(b)(4) | Antenna Requirement                       | Pass   |

## 5.2 6dB Bandwidth Measurement

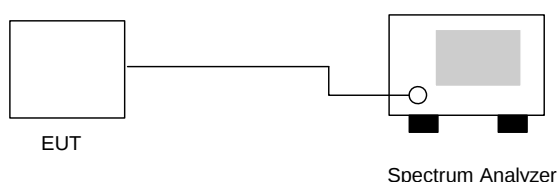
### 5.2.1 Measuring Instruments

As described in chapter 6 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

- Application Type : WLAN 802.11b/g
- Temperature : 25~26°C
- Relative Humidity : 49~51%
- Test Engineer : Ken

#### 802.11b

| Channel | Frequency<br>( MHz ) | 6dB Emission bandwidth<br>( MHz ) | Limits<br>( MHz ) | Plot<br>Ref. No. |
|---------|----------------------|-----------------------------------|-------------------|------------------|
| 01      | 2412                 | 13.08                             | > 0.5MHz          | Mode 1           |
| 06      | 2437                 | 13.04                             | > 0.5MHz          | Mode 2           |
| 11      | 2462                 | 13.08                             | > 0.5MHz          | Mode 3           |

#### 802.11g

| Channel | Frequency<br>( MHz ) | 6dB Emission bandwidth<br>( MHz ) | Limits<br>( MHz ) | Plot<br>Ref. No. |
|---------|----------------------|-----------------------------------|-------------------|------------------|
| 01      | 2412                 | 16.36                             | > 0.5MHz          | Mode 4           |
| 06      | 2437                 | 16.36                             | > 0.5MHz          | Mode 5           |
| 11      | 2462                 | 16.36                             | > 0.5MHz          | Mode 6           |

**802.11a**

| Channel | Frequency<br>( MHz ) | 6dB Emission bandwidth<br>( MHz ) | Limits<br>( MHz ) | Plot<br>Ref. No. |
|---------|----------------------|-----------------------------------|-------------------|------------------|
| 149     | 5745                 | 16.36                             | > 0.5MHz          | Mode 7           |
| 157     | 5785                 | 16.36                             | > 0.5MHz          | Mode 8           |
| 165     | 5825                 | 16.36                             | > 0.5MHz          | Mode 9           |

**802.11n(g) BW 20M**

| Channel | Frequency<br>( MHz ) | 6dB Emission bandwidth<br>( MHz ) | Limits<br>( MHz ) | Plot<br>Ref. No. |
|---------|----------------------|-----------------------------------|-------------------|------------------|
| 01      | 2412                 | 17.56                             | > 0.5MHz          | Mode 10          |
| 06      | 2437                 | 17.60                             | > 0.5MHz          | Mode 11          |
| 11      | 2462                 | 17.52                             | > 0.5MHz          | Mode 12          |

**802.11n(a) BW 20M**

| Channel | Frequency<br>( MHz ) | 6dB Emission bandwidth<br>( MHz ) | Limits<br>( MHz ) | Plot<br>Ref. No. |
|---------|----------------------|-----------------------------------|-------------------|------------------|
| 149     | 5745                 | 17.60                             | > 0.5MHz          | Mode 13          |
| 157     | 5785                 | 17.56                             | > 0.5MHz          | Mode 14          |
| 165     | 5825                 | 17.56                             | > 0.5MHz          | Mode 15          |

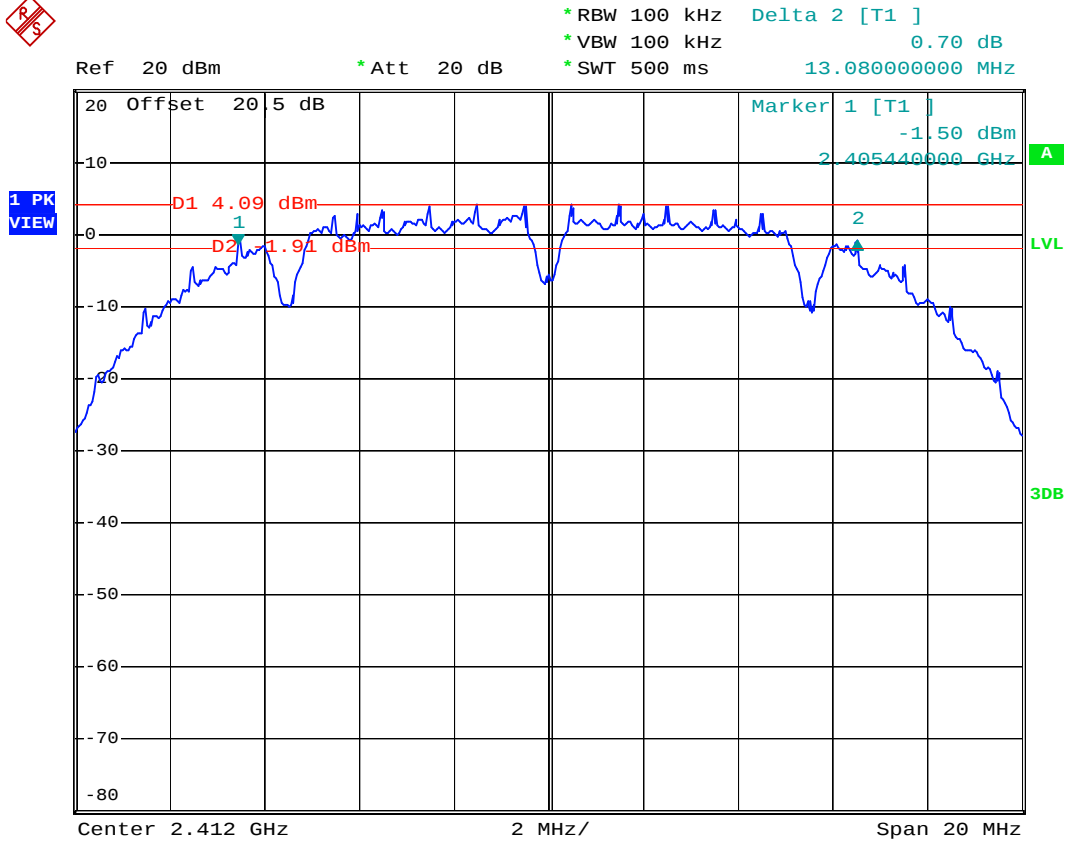
**802.11n(a) BW 40M**

| Channel | Frequency<br>( MHz ) | 6dB Emission bandwidth<br>( MHz ) | Limits<br>( MHz ) | Plot<br>Ref. No. |
|---------|----------------------|-----------------------------------|-------------------|------------------|
| 151     | 5755                 | 34.32                             | > 0.5MHz          | Mode 16          |
| 159     | 5795                 | 34.40                             | > 0.5MHz          | Mode 17          |



## 5.2.5 6dB Bandwidth

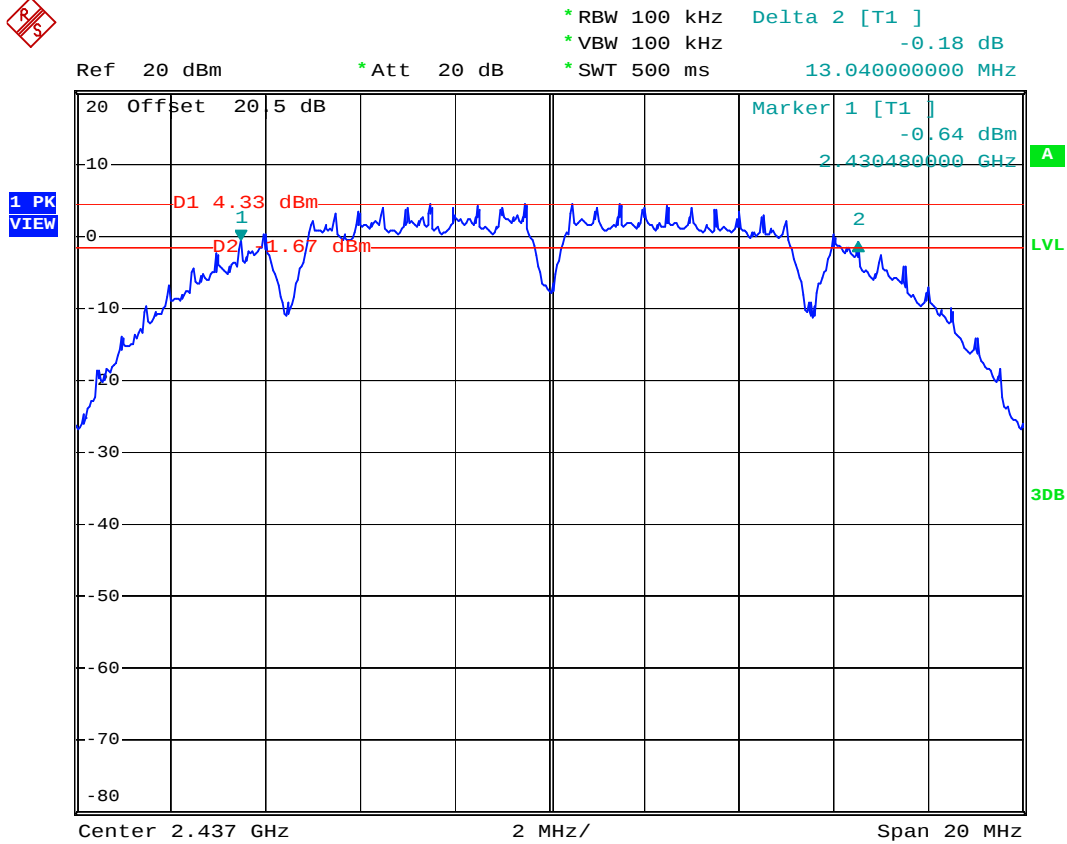
Mode 1



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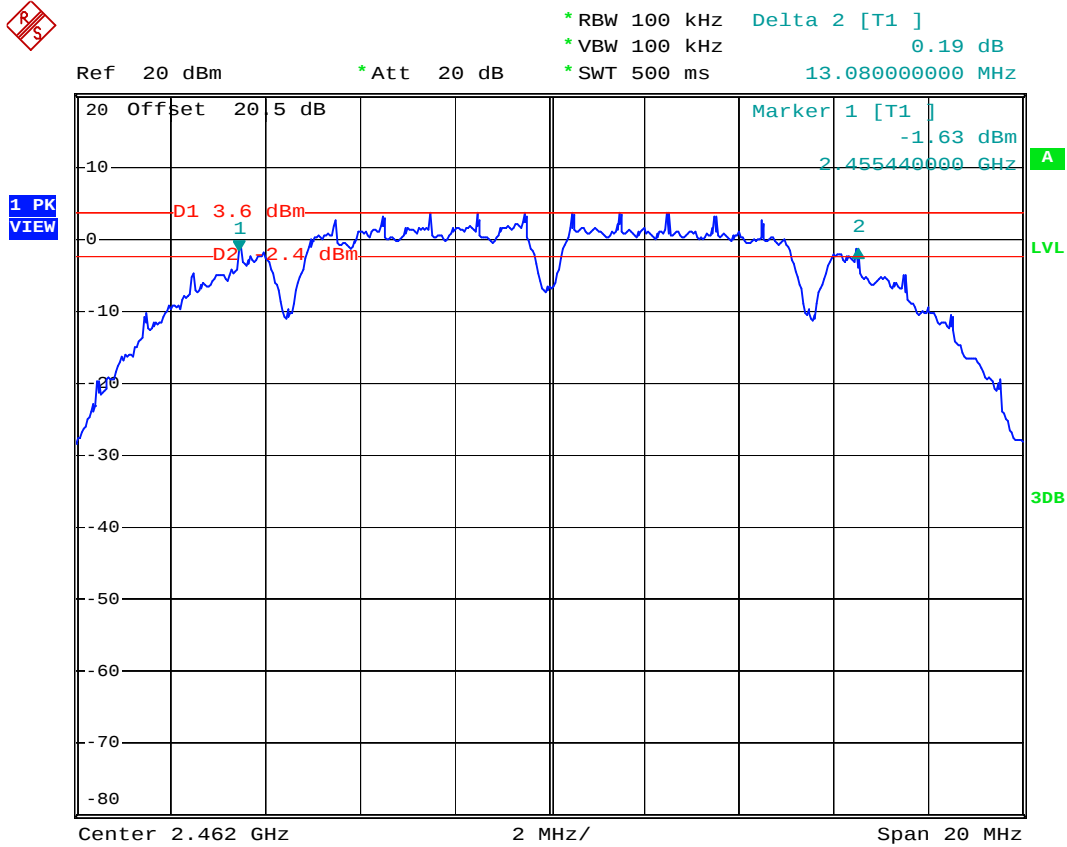
Mode 2



Date: 5.NOV.2007 20:04:00



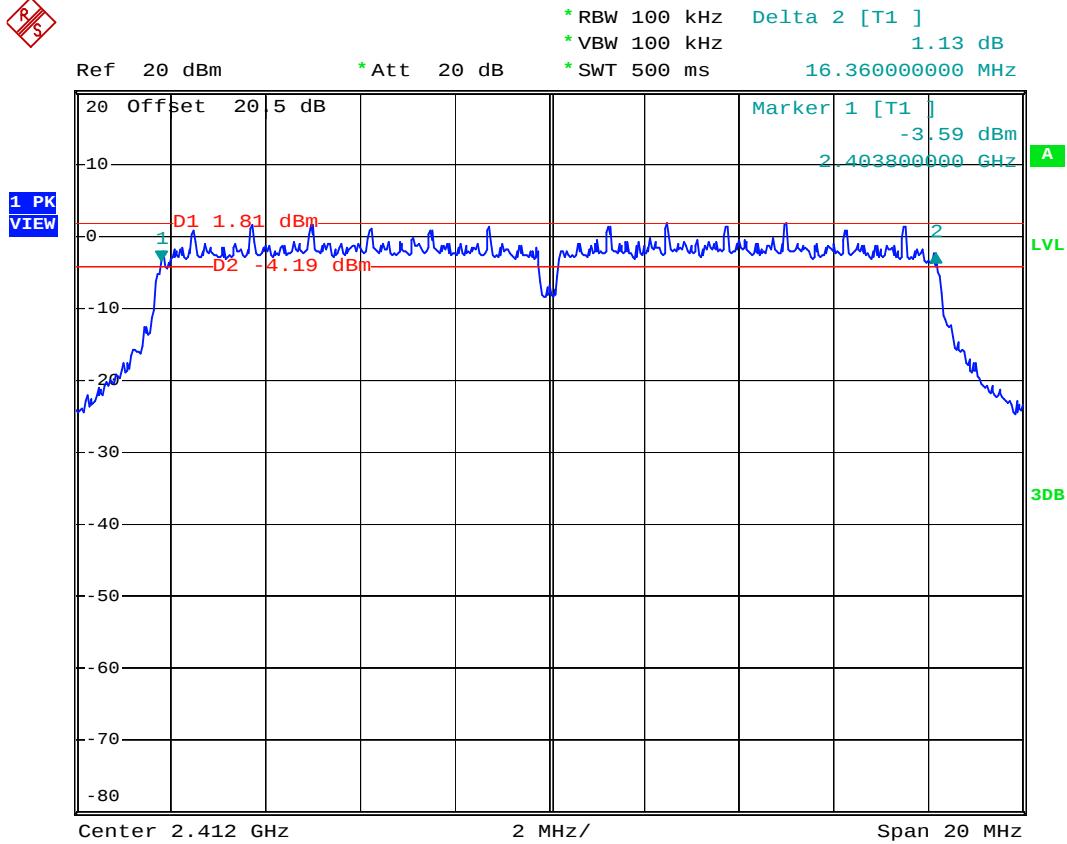
Mode 3



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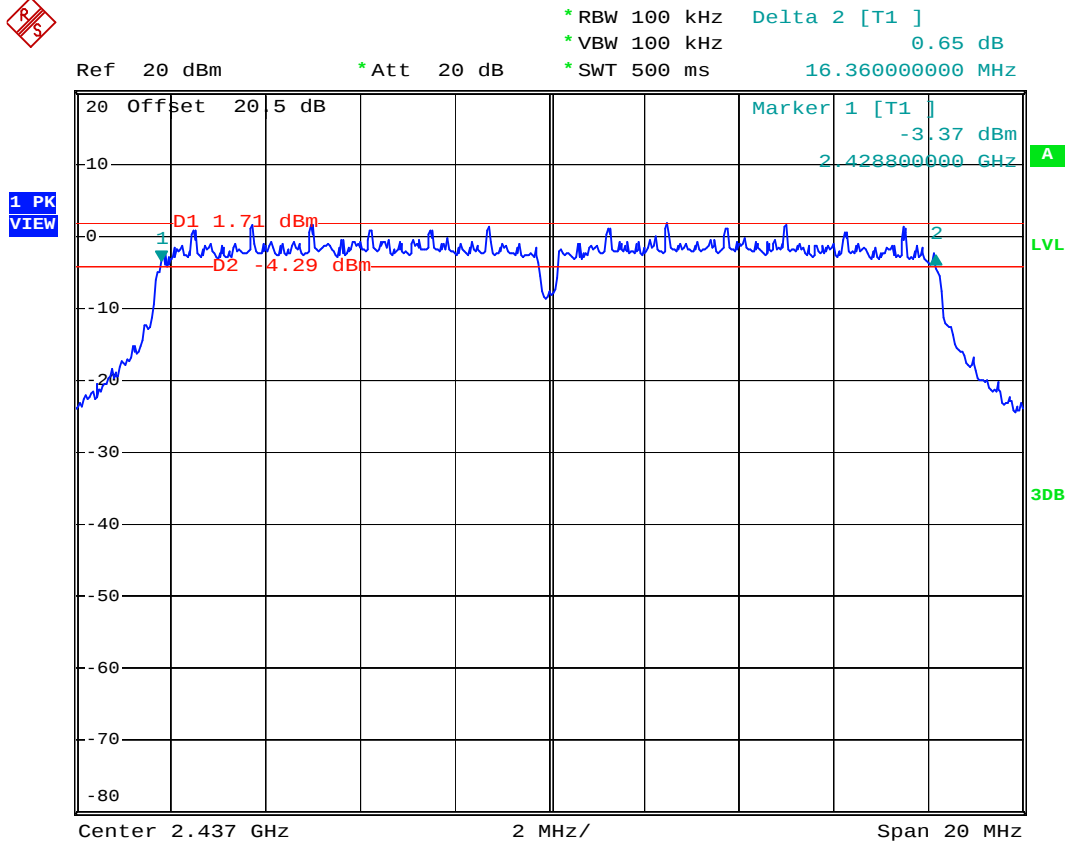
Mode 4



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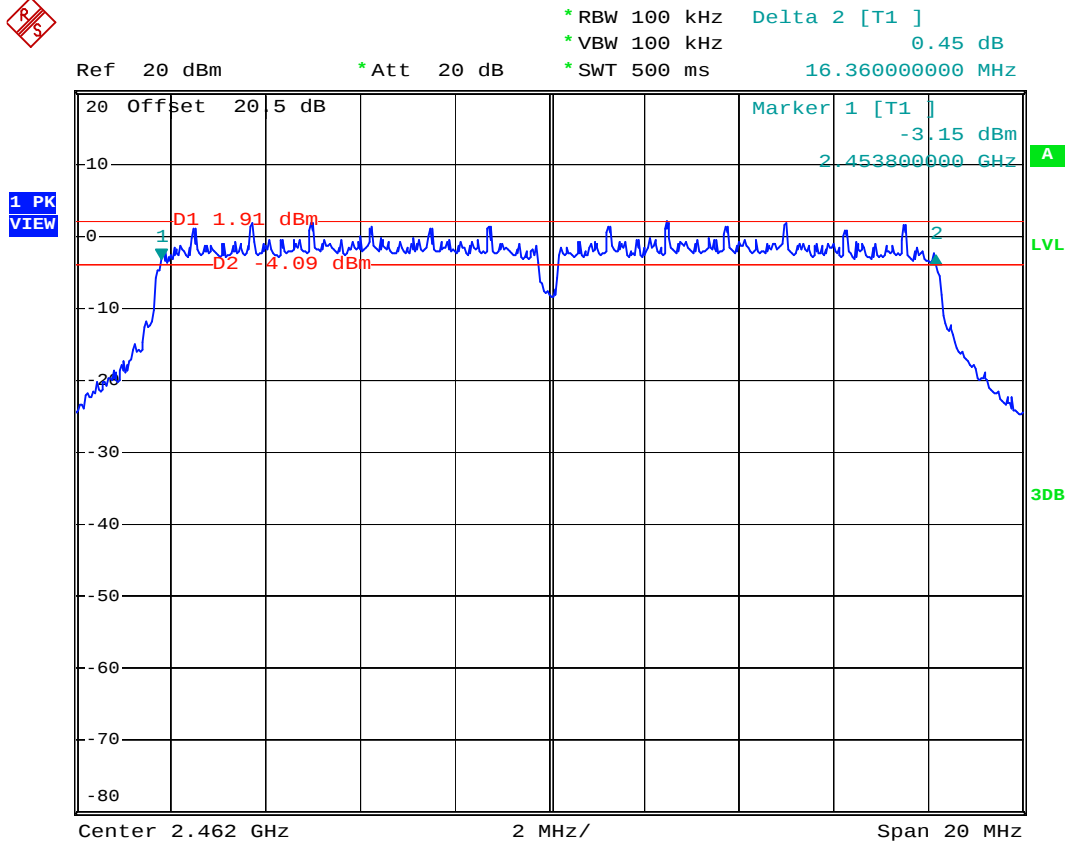
Mode 5



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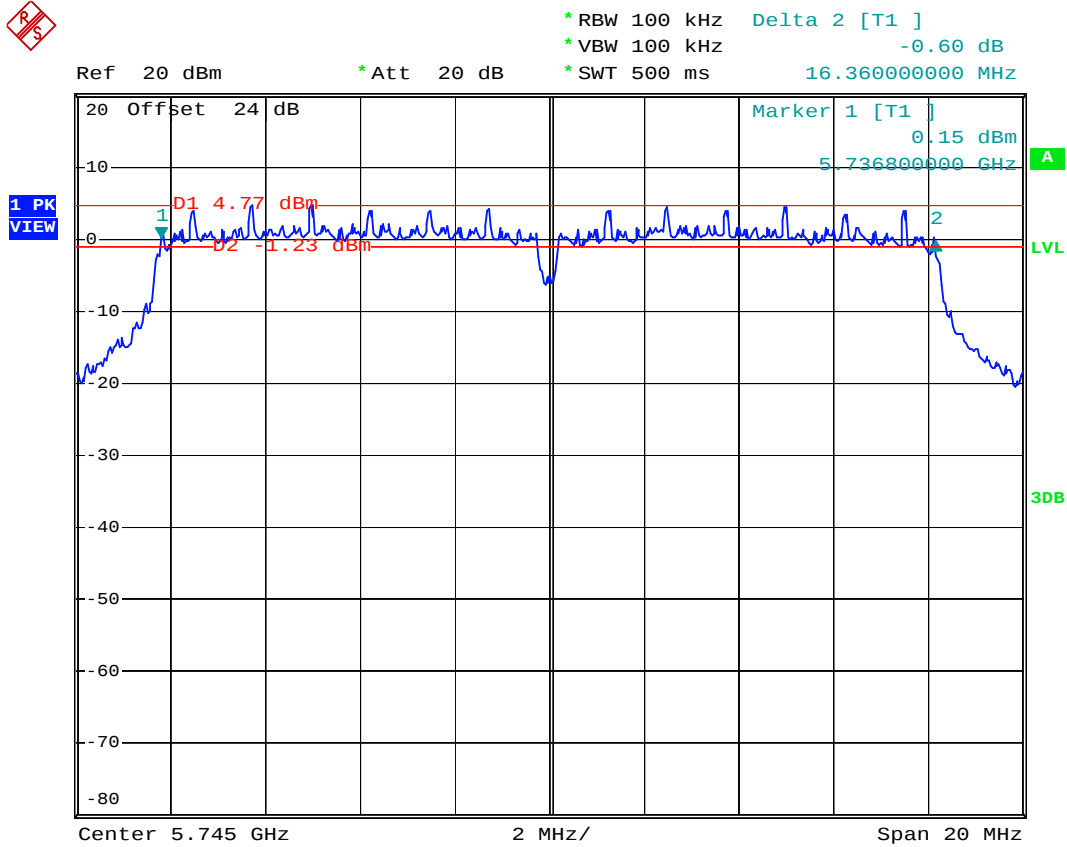
Mode 6



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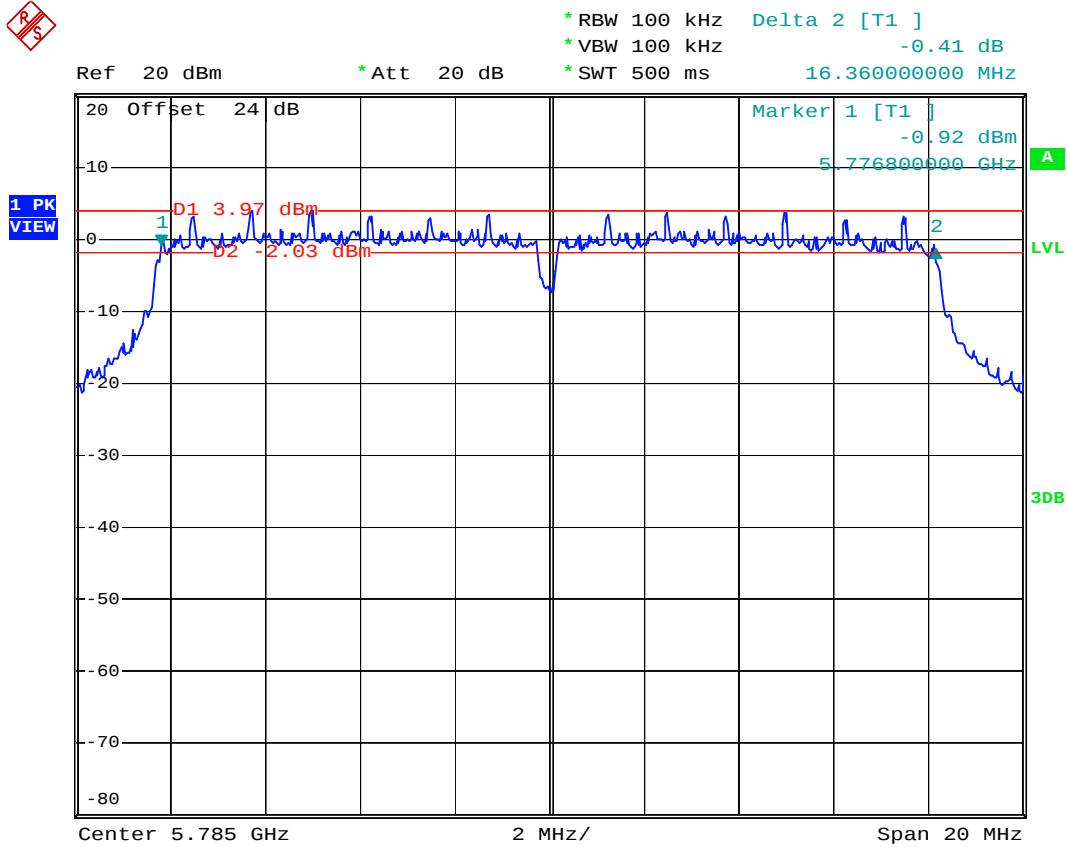
Mode 7



Date: 5.NOV.2007 23:00:27



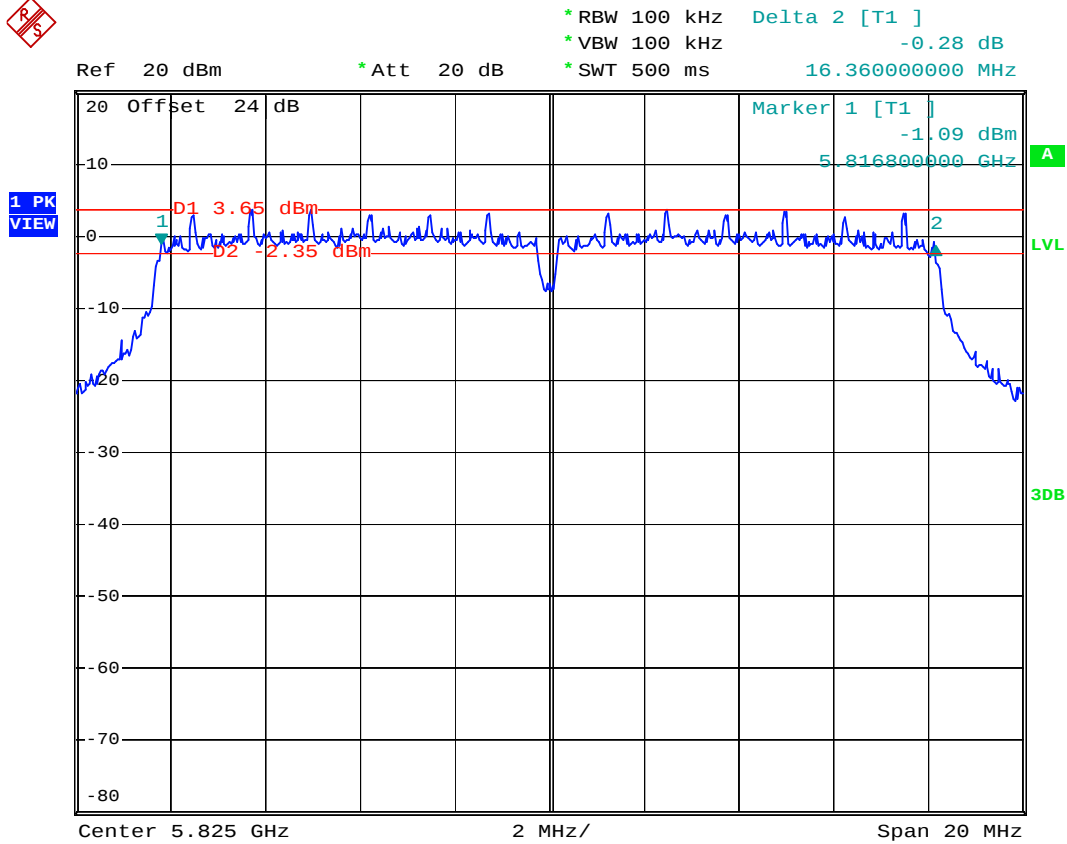
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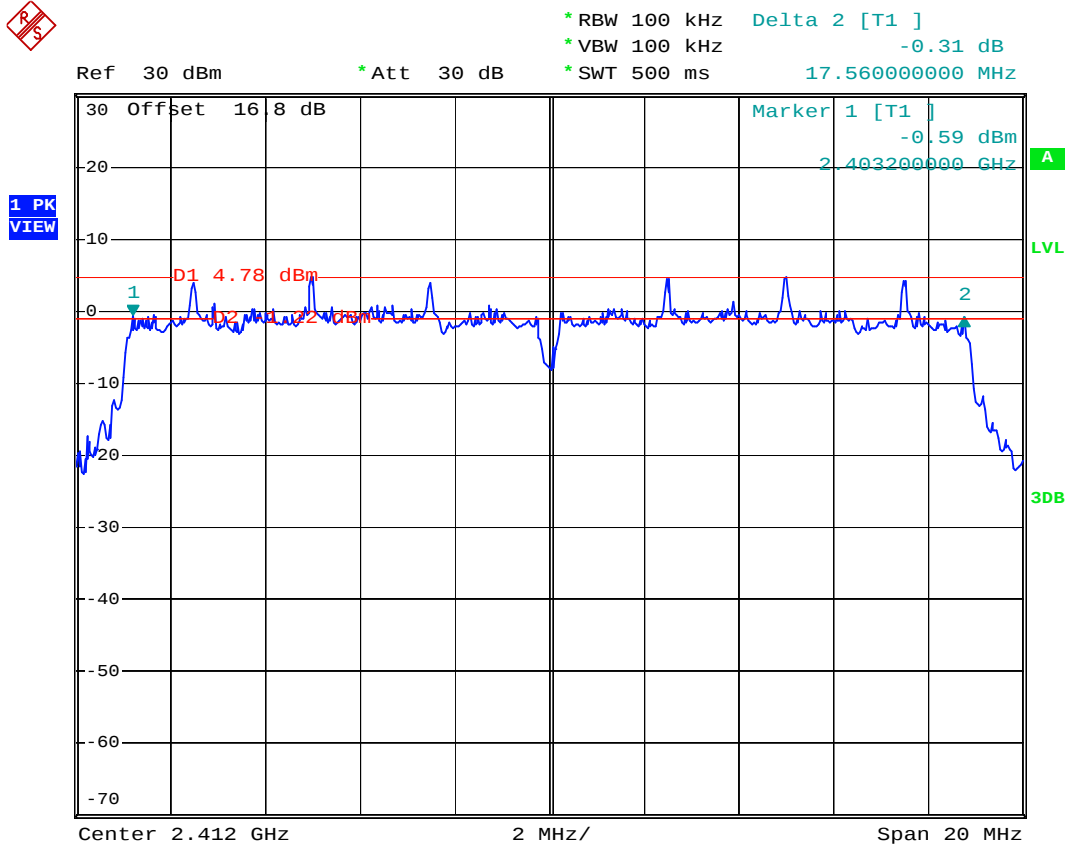
Mode 9



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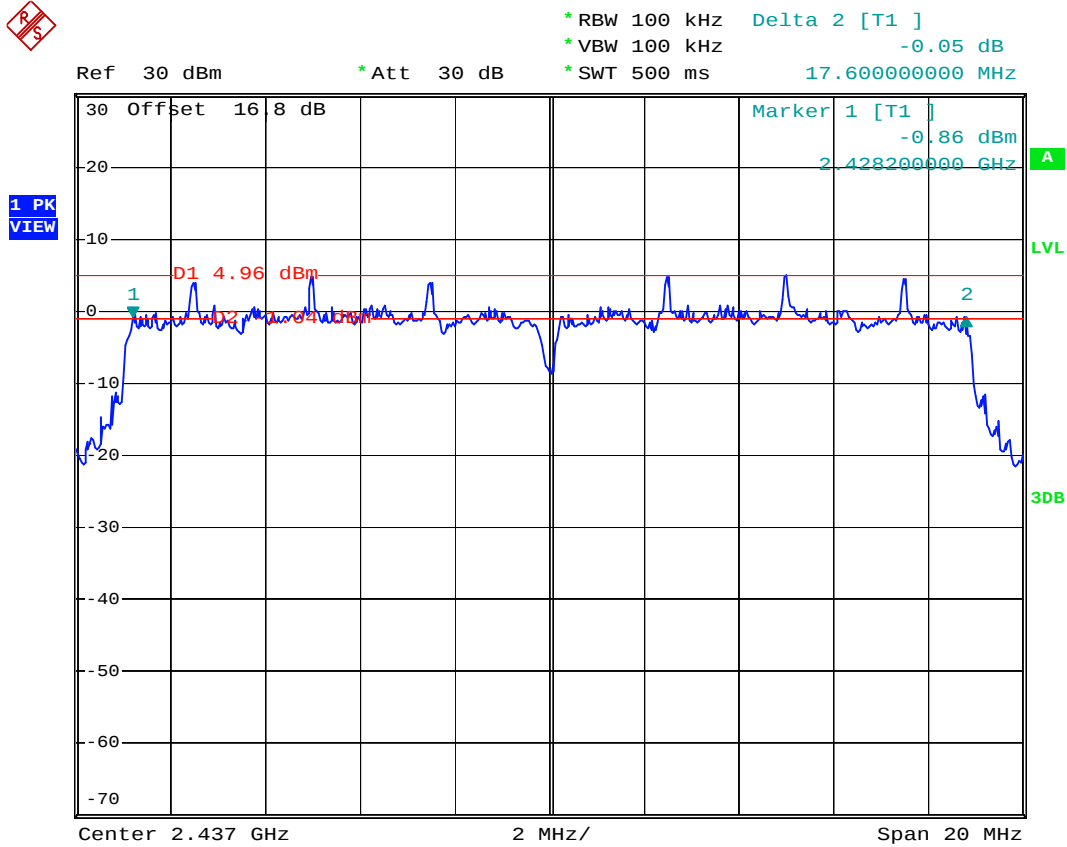
Mode 10



Date: 10.NOV.2007 03:00:18



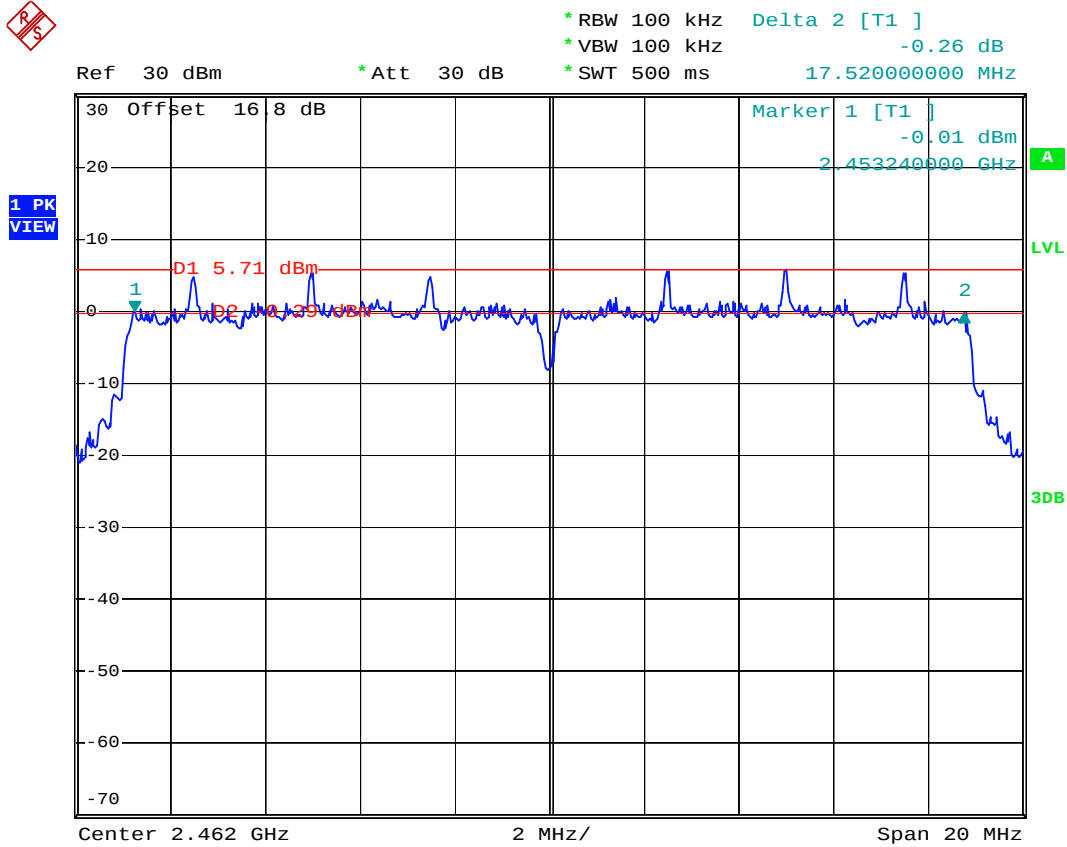
Mode 11



Date: 10.NOV.2007 02:59:14



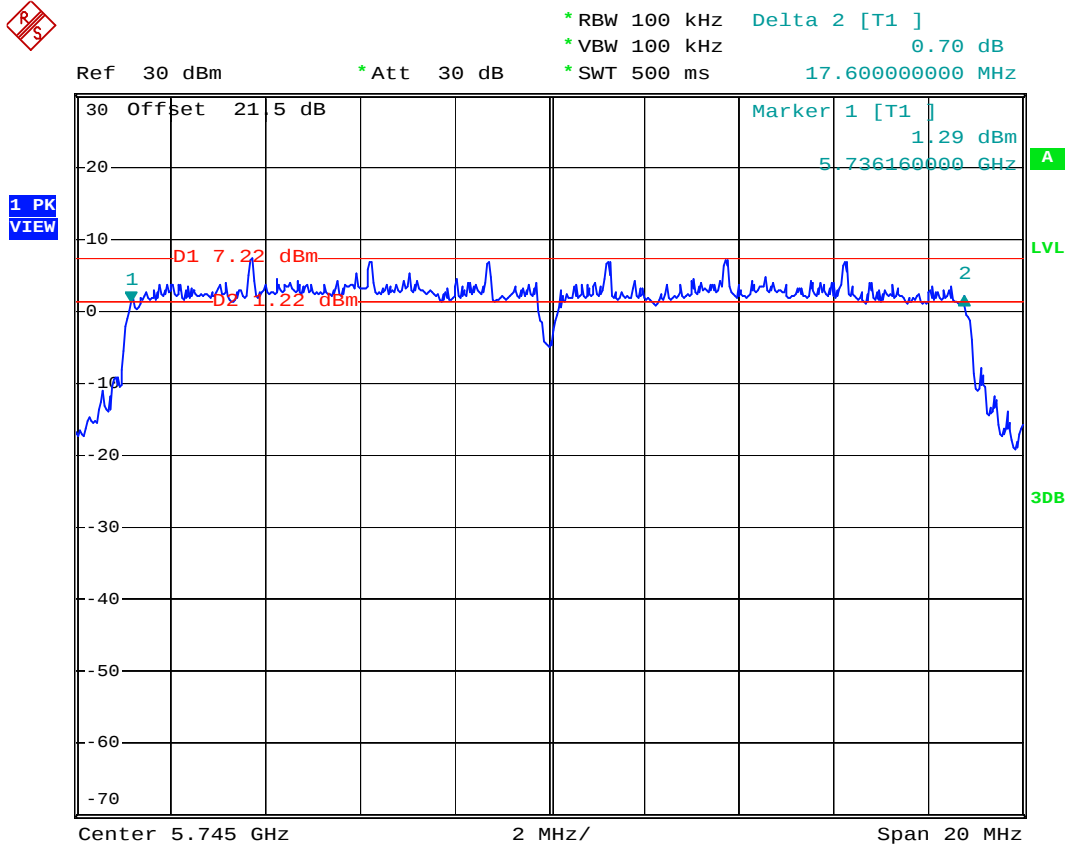
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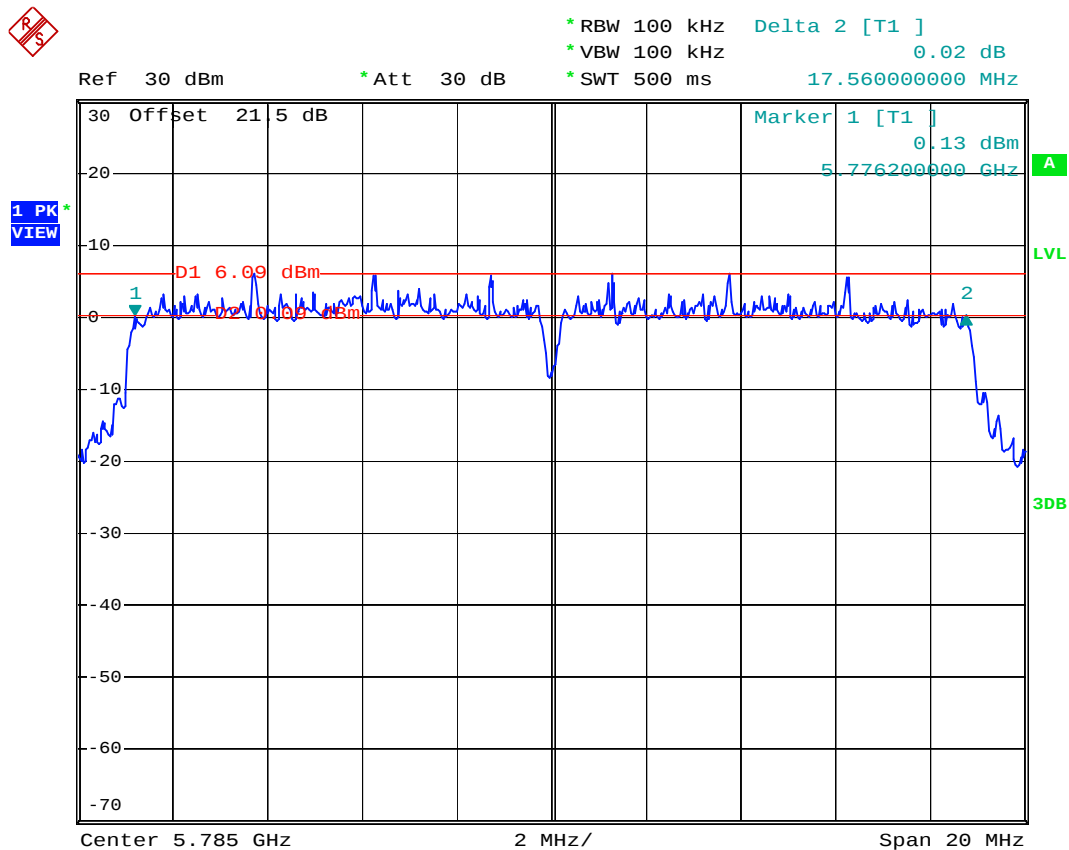


Mode 13



Date: 27.NOV.2007 04:25:47

Mode 14



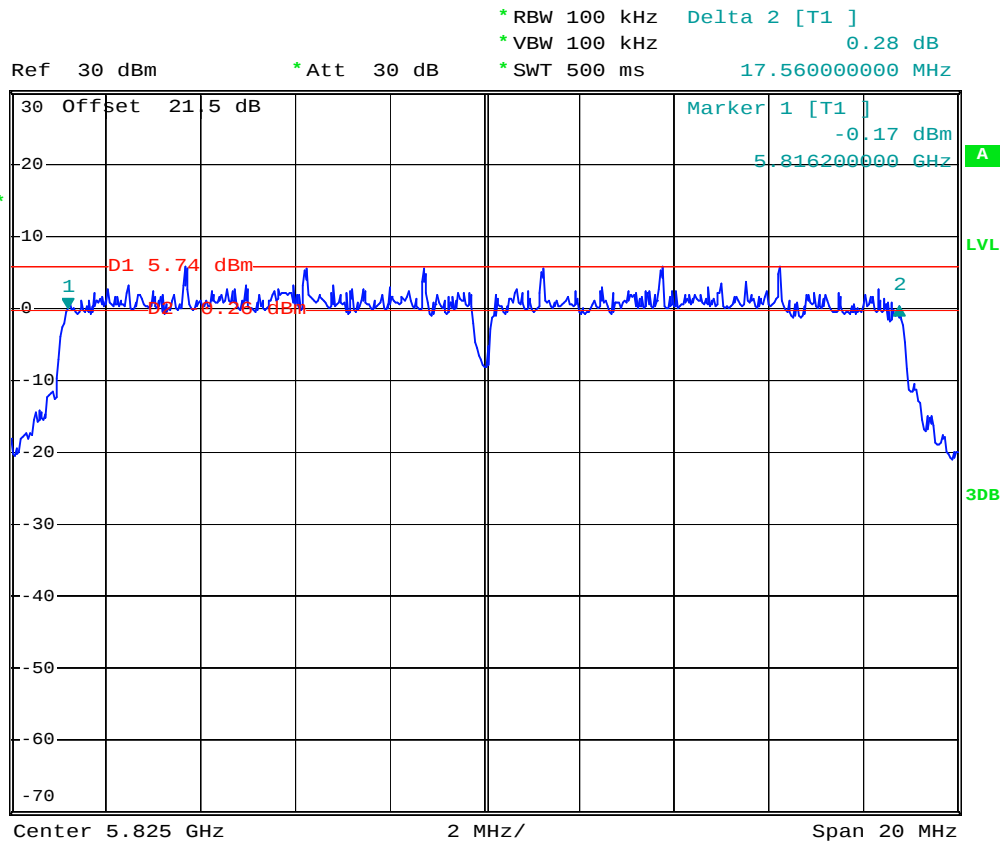
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Mode 15



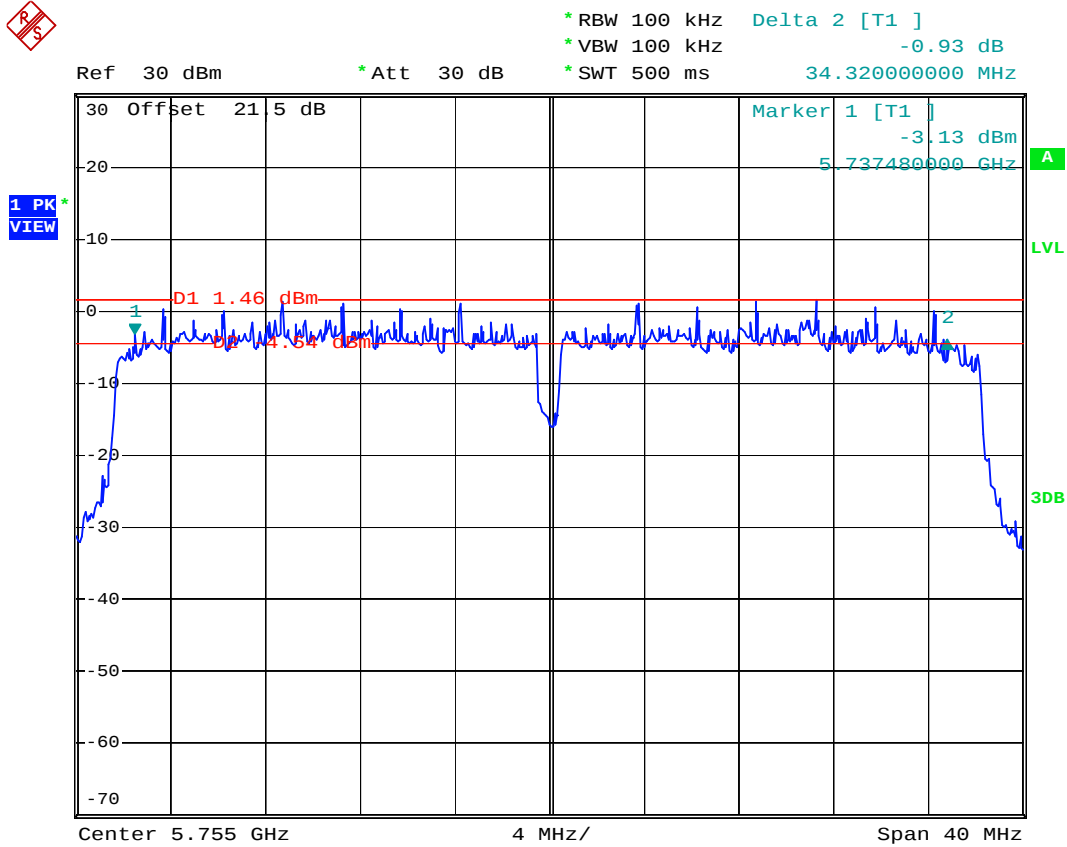
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VIEW



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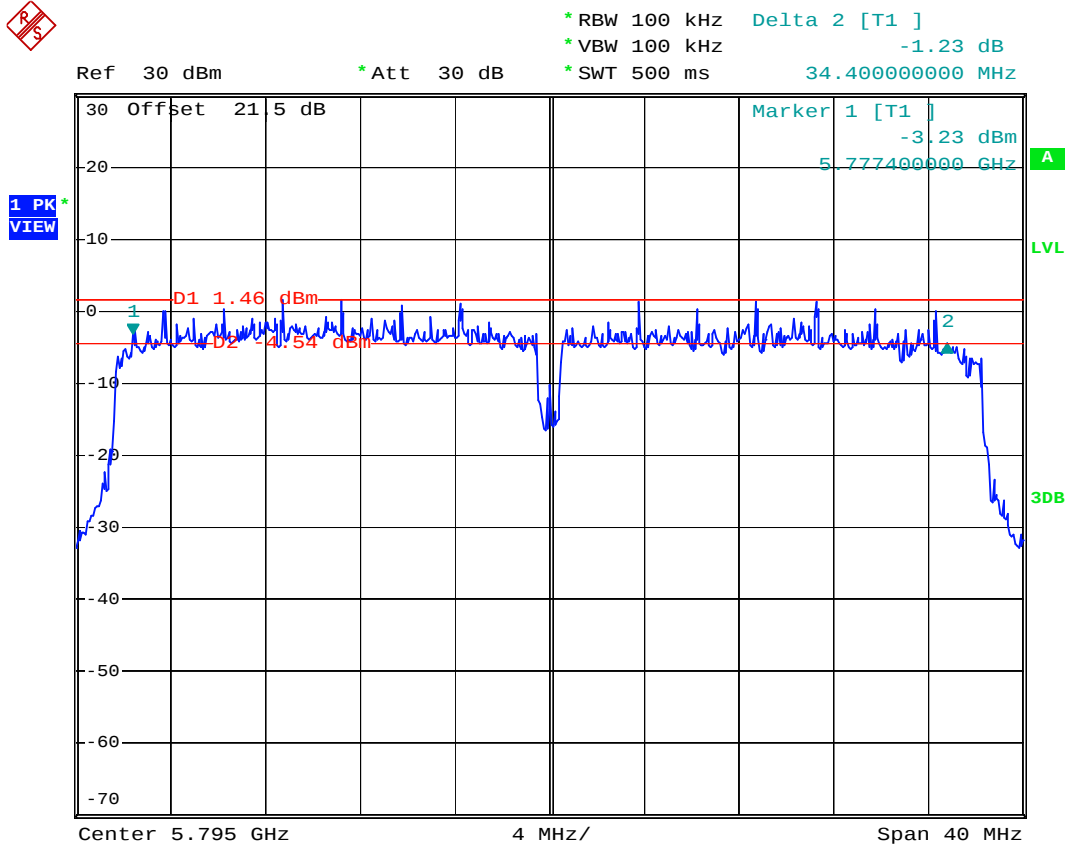
Mode 16



Date: 10.NOV.2007 02:25:31



Mode 17



Date: 10.NOV.2007 02:24:04

### 5.3 Power Spectral Density Measurement

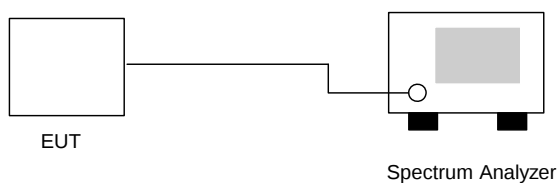
#### 5.3.1 Measuring Instruments

As described in chapter 6 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 :**

- Application Type : 802.11b/g
- Temperature : 25~26°C
- Relative Humidity : 49~51%
- Test Enginner : Ken

**802.11b**

| Channel | Frequency<br>(MHz) | Power Spectral Density<br>(dBm) | Limits<br>(dBm ) | Plot<br>Ref. No. |
|---------|--------------------|---------------------------------|------------------|------------------|
| 01      | 2412               | -10.75                          | 8                | Mode 1           |
| 06      | 2437               | -11.60                          | 8                | Mode 2           |
| 11      | 2462               | -9.20                           | 8                | Mode 3           |

**802.11g**

| Channel | Frequency<br>(MHz) | Power Spectral Density<br>(dBm) | Limits<br>(dBm ) | Plot<br>Ref. No. |
|---------|--------------------|---------------------------------|------------------|------------------|
| 01      | 2412               | -10.70                          | 8                | Mode 4           |
| 06      | 2437               | -11.08                          | 8                | Mode 5           |
| 11      | 2462               | -10.60                          | 8                | Mode 6           |

**802.11a**

| Channel | Frequency<br>(MHz) | Power Spectral Density<br>(dBm) | Limits<br>(dBm ) | Plot<br>Ref. No. |
|---------|--------------------|---------------------------------|------------------|------------------|
| 149     | 5745               | -9.35                           | 8                | Mode 7           |
| 157     | 5785               | -10.23                          | 8                | Mode 8           |
| 165     | 5825               | -10.07                          | 8                | Mode 9           |

**802.11n(g)\_BW 20M**

| Channel | Frequency<br>(MHz) | Power Spectral Density<br>(dBm) | Limits<br>(dBm ) | Plot<br>Ref. No. |
|---------|--------------------|---------------------------------|------------------|------------------|
| 01      | 2412               | -12.26                          | 8                | Mode 10          |
| 06      | 2437               | -12.38                          | 8                | Mode 11          |
| 11      | 2462               | -10.98                          | 8                | Mode 12          |

**802.11n(a)\_BW 20M**

| Channel | Frequency<br>(MHz) | Power Spectral Density<br>(dBm) | Limits<br>(dBm ) | Plot<br>Ref. No. |
|---------|--------------------|---------------------------------|------------------|------------------|
| 149     | 5745               | -8.82                           | 8                | Mode 13          |
| 157     | 5785               | -8.31                           | 8                | Mode 14          |
| 165     | 5825               | -8.80                           | 8                | Mode 15          |

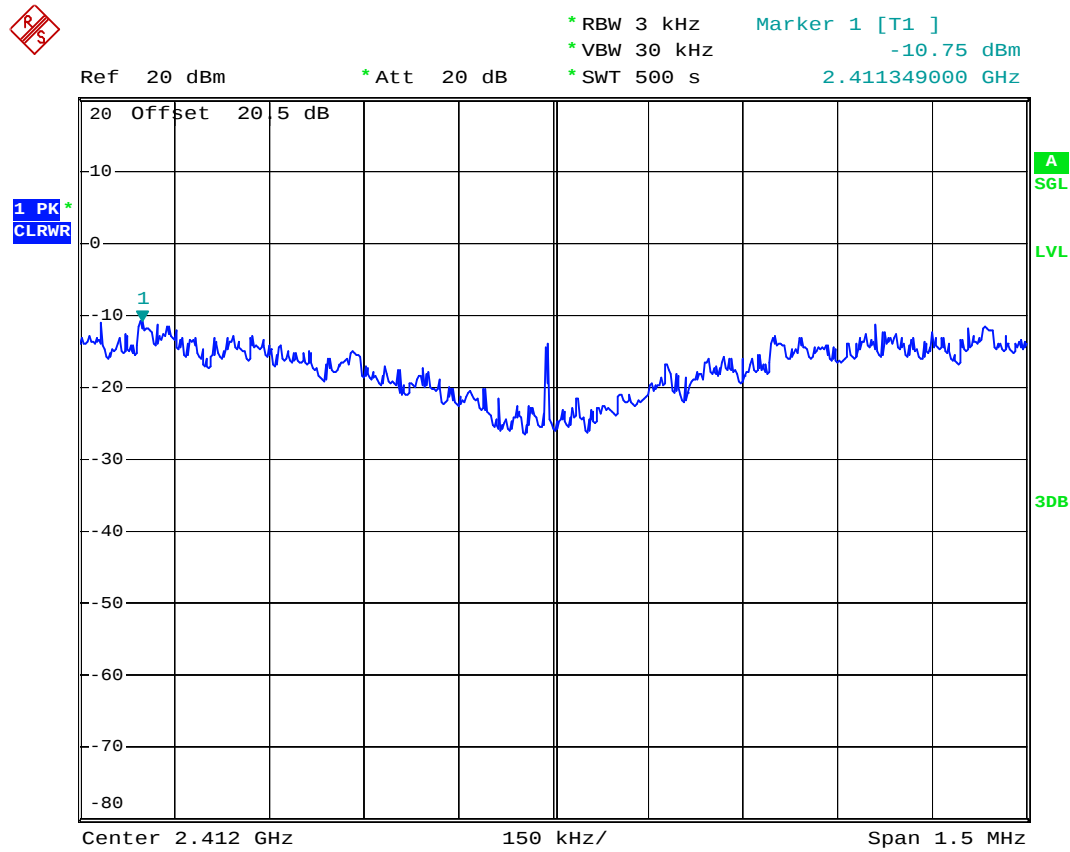
**802.11n(a)\_BW 40M**

| Channel | Frequency<br>(MHz) | Power Spectral Density<br>(dBm) | Limits<br>(dBm ) | Plot<br>Ref. No. |
|---------|--------------------|---------------------------------|------------------|------------------|
| 151     | 5755               | -14.07                          | 8                | Mode 16          |
| 159     | 5795               | -13.44                          | 8                | Mode 17          |



### 5.3.5 Power Spectral Density

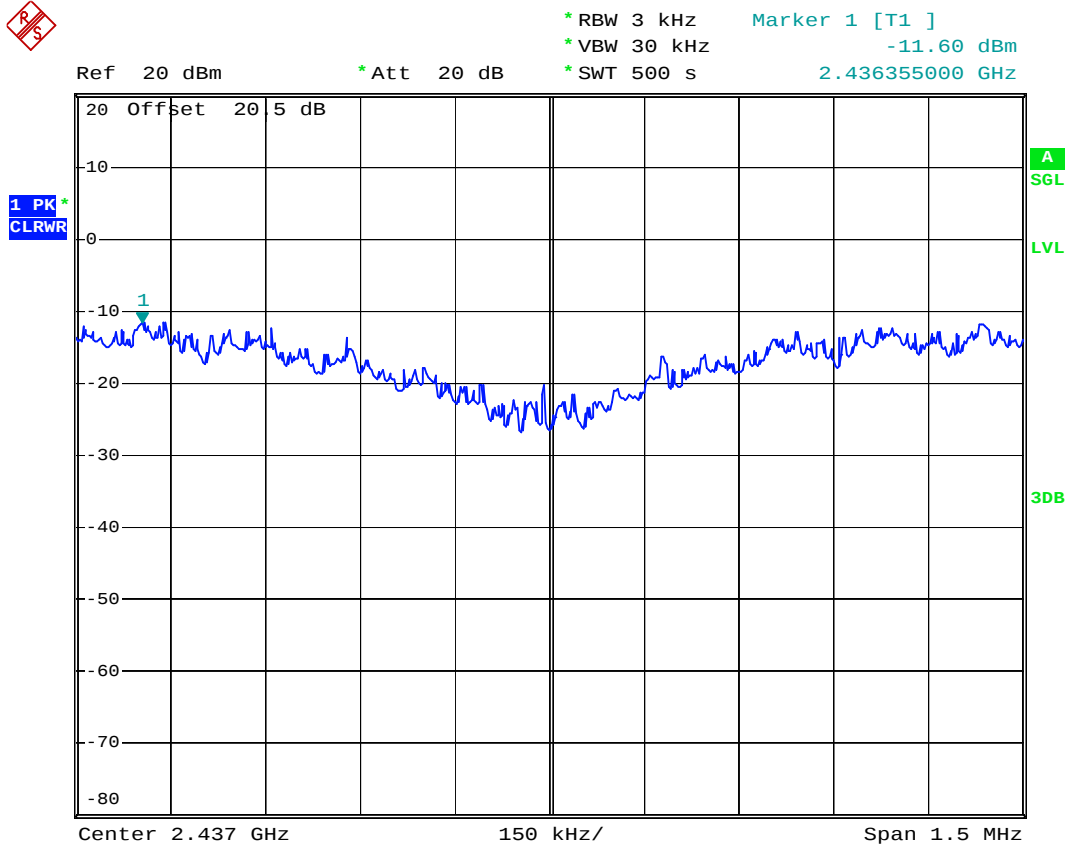
Mode 1



Date: 5.NOV.2007 20:46:31



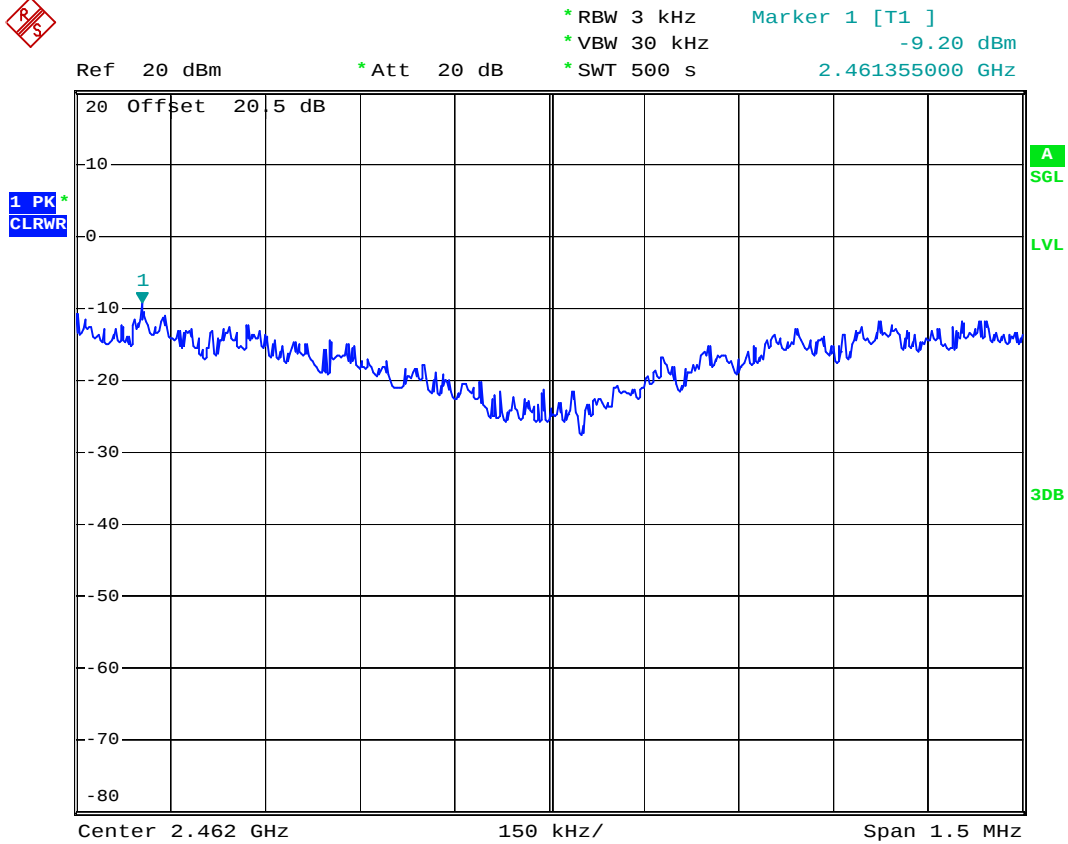
Mode 2



Date: 5.NOV.2007 21:16:16



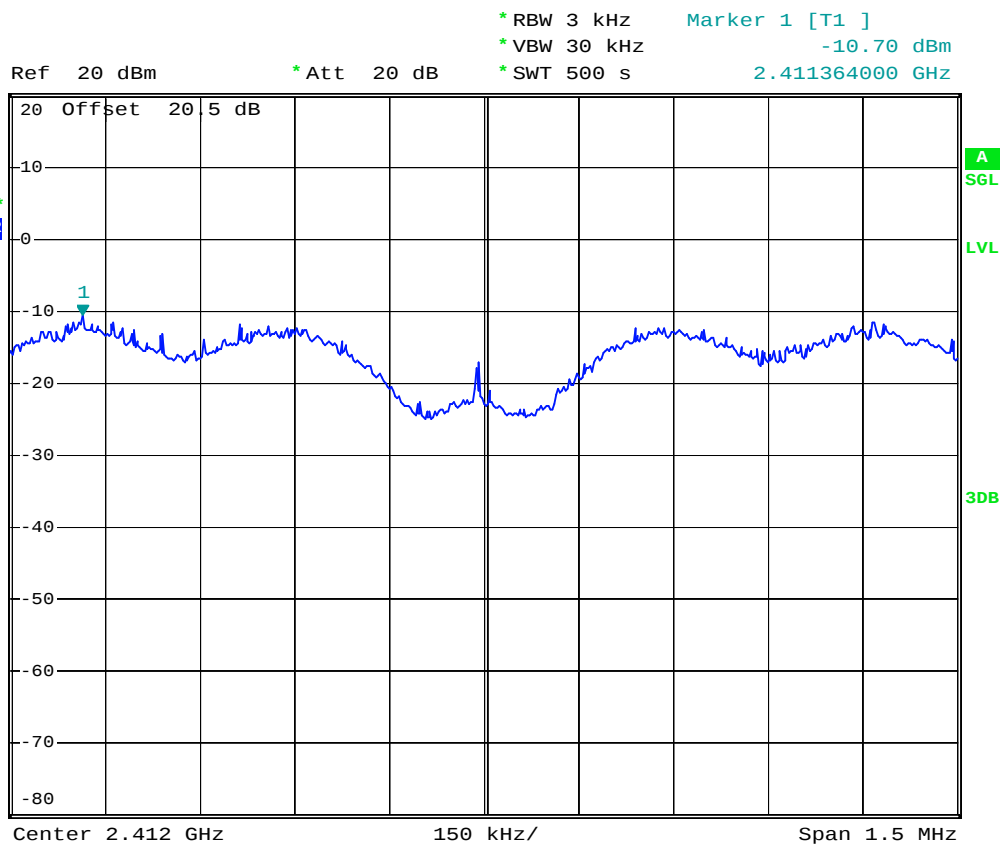
Mode 3



Date: 5.NOV.2007 21:25:59



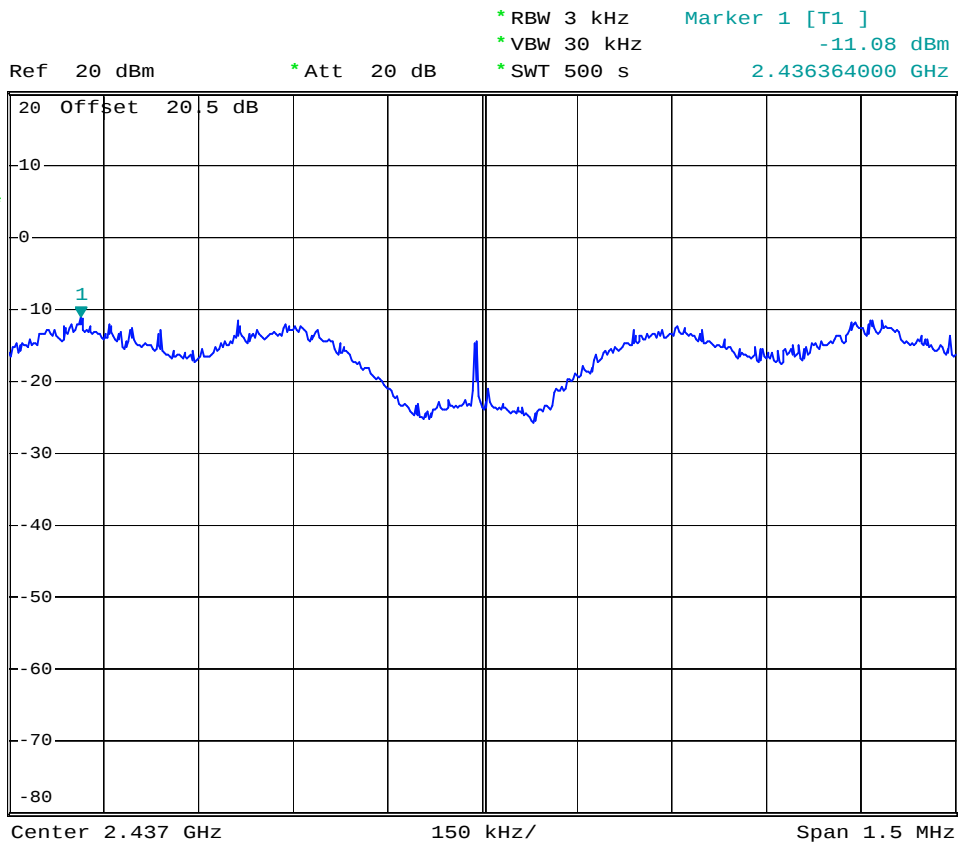
Mode 4



Date: 5.NOV.2007 20:56:13



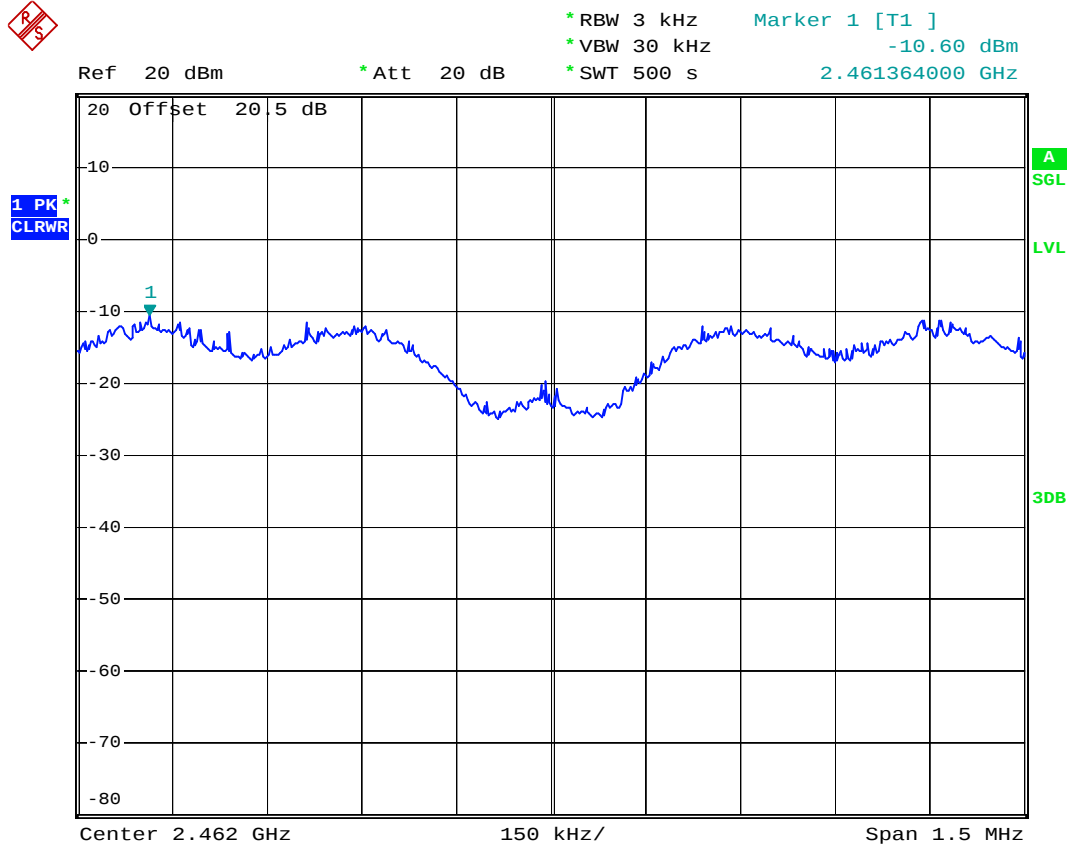
Mode 5



Date: 5.NOV.2007 21:06:40



Mode 6



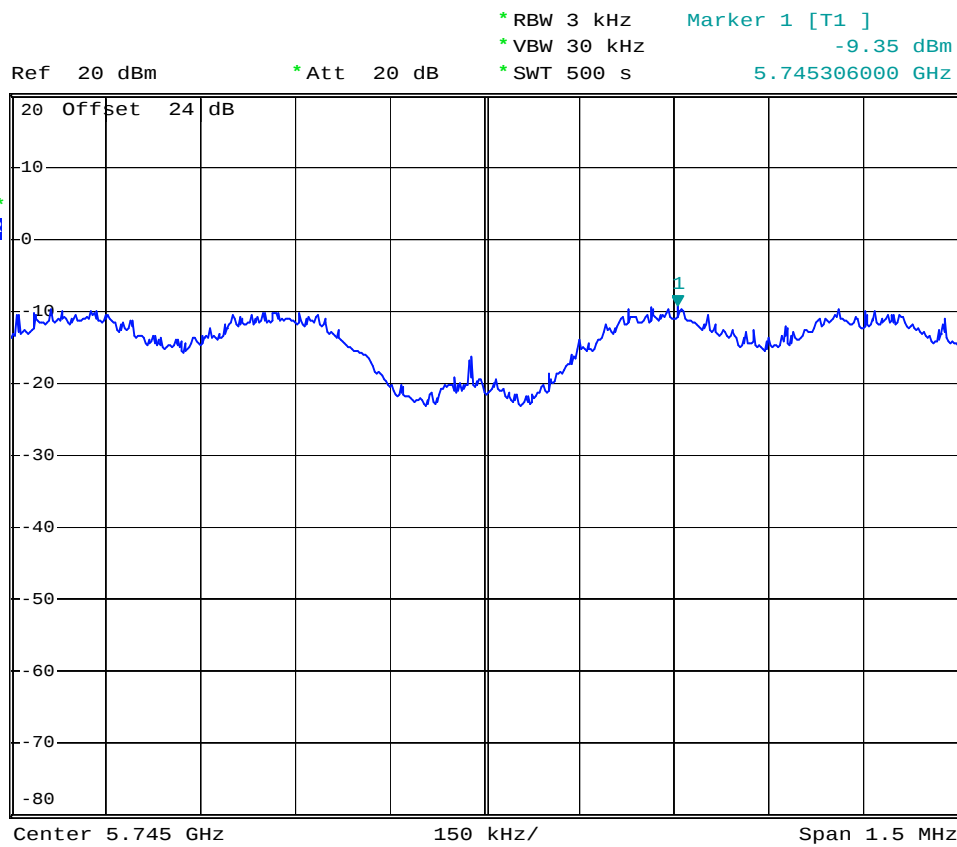
Date: 5.NOV.2007 21:35:56



Mode 7



1 PK\*  
CLRWR



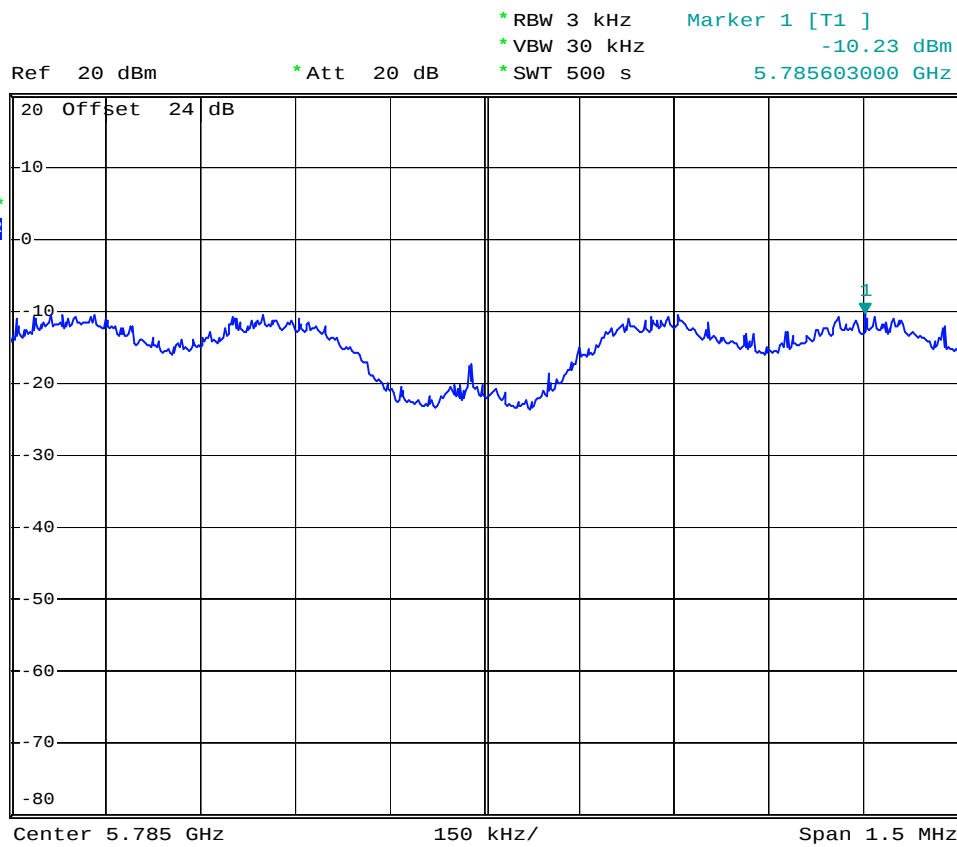
Date: 5.NOV.2007 21:52:32



Mode 8



1 PK\*  
CLRWR



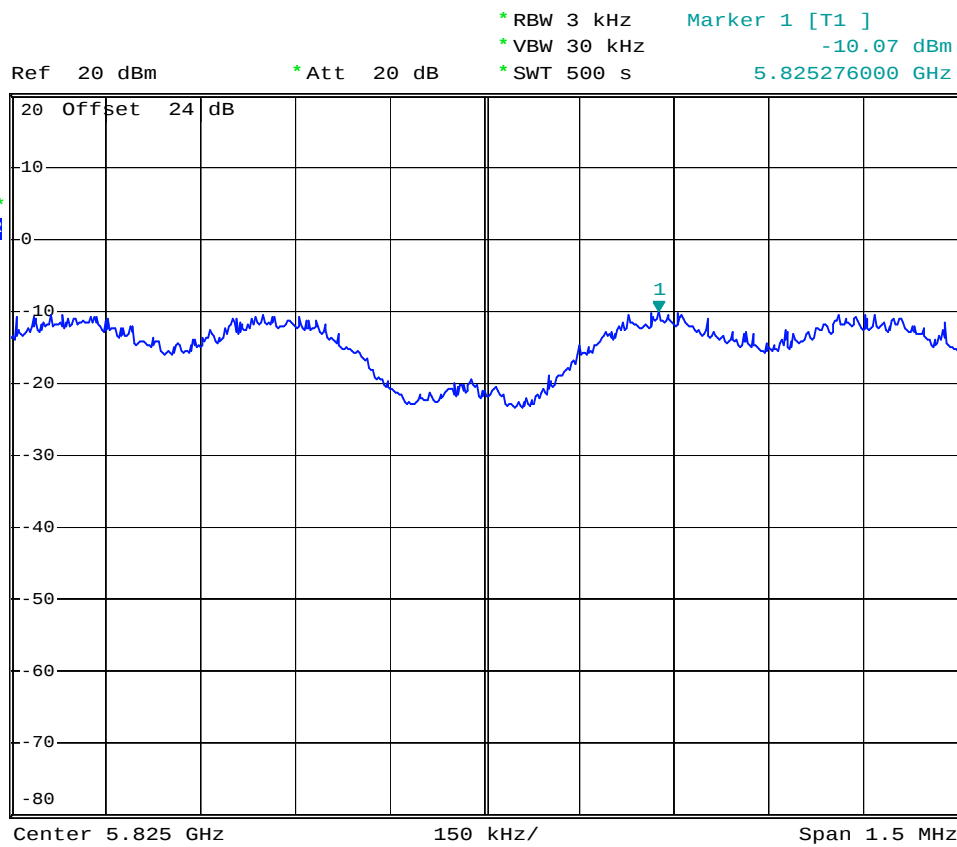
Date: 5.NOV.2007 22:02:18



Mode 9



1 PK\*  
CLRWR



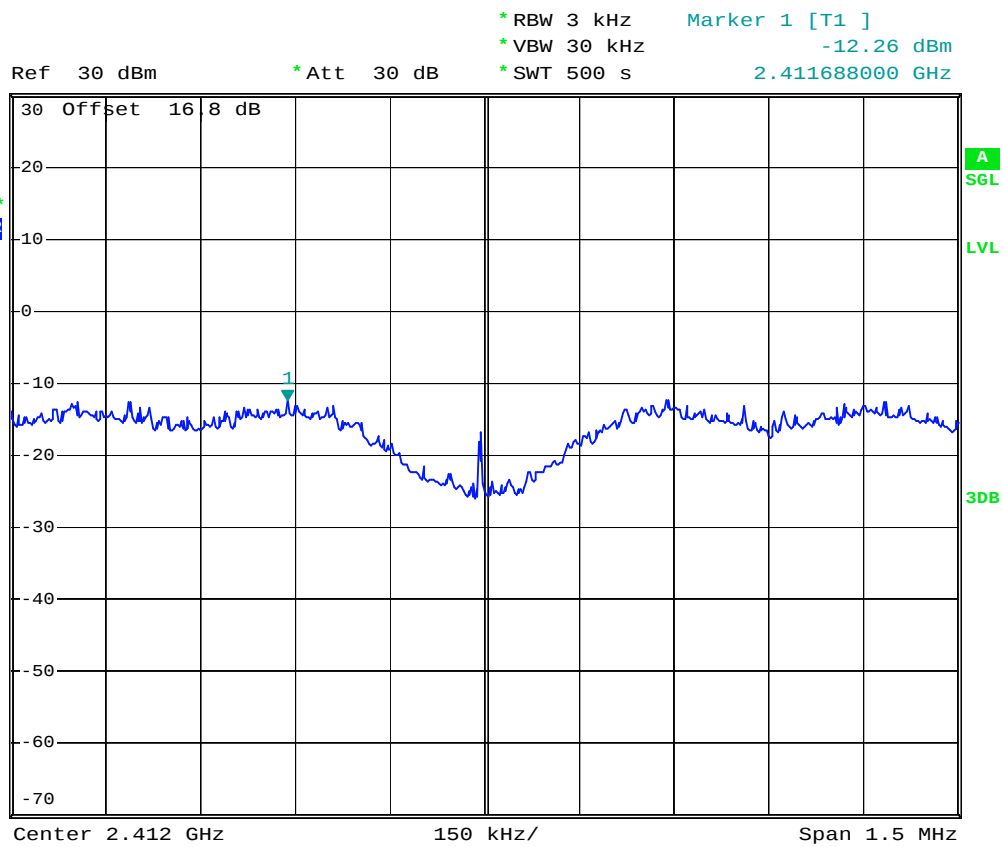
Date: 5.NOV.2007 22:12:51



Mode 10



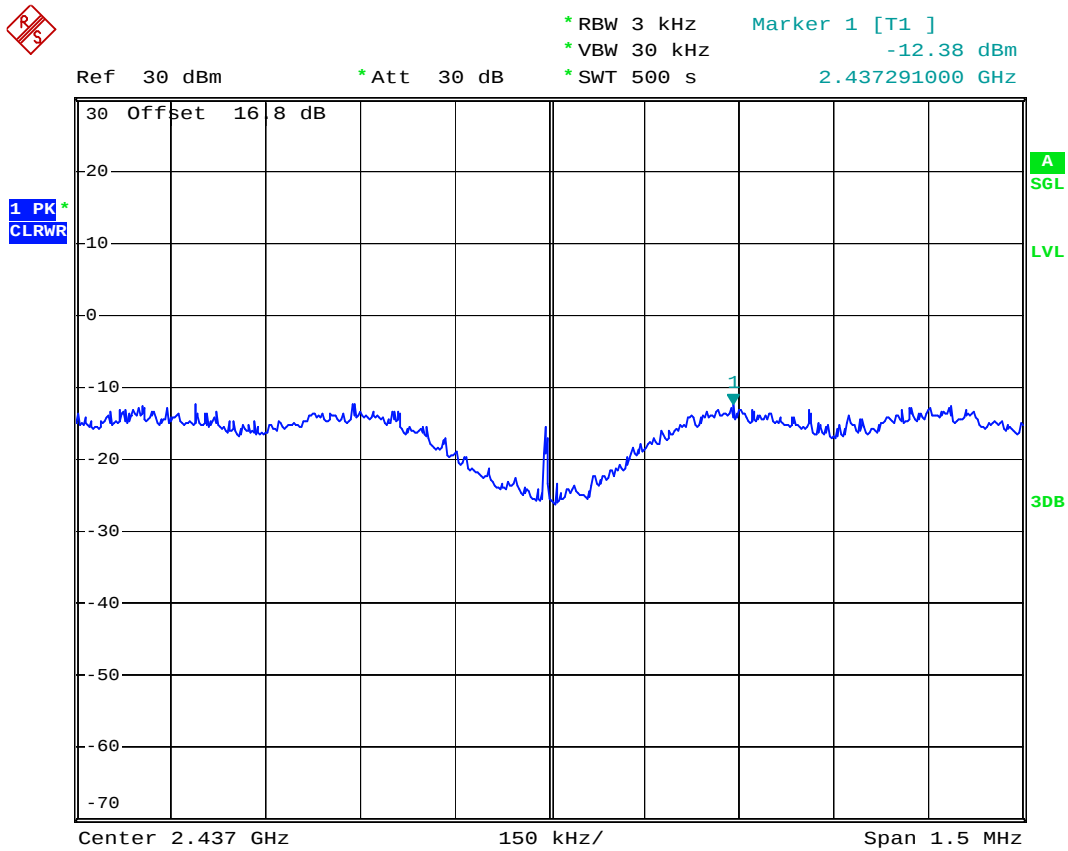
1 PK\*  
CLRWR



Date: 10.NOV.2007 00:03:45



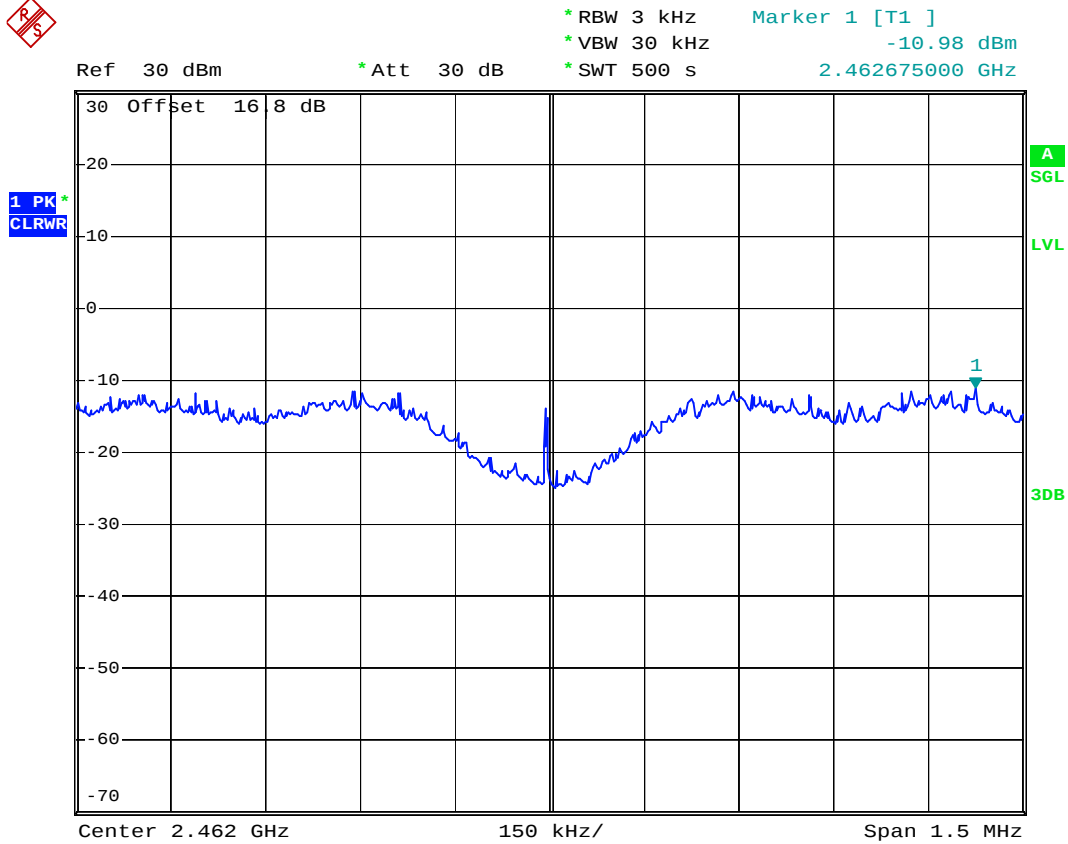
Mode 11



Date: 10.NOV.2007 00:13:22



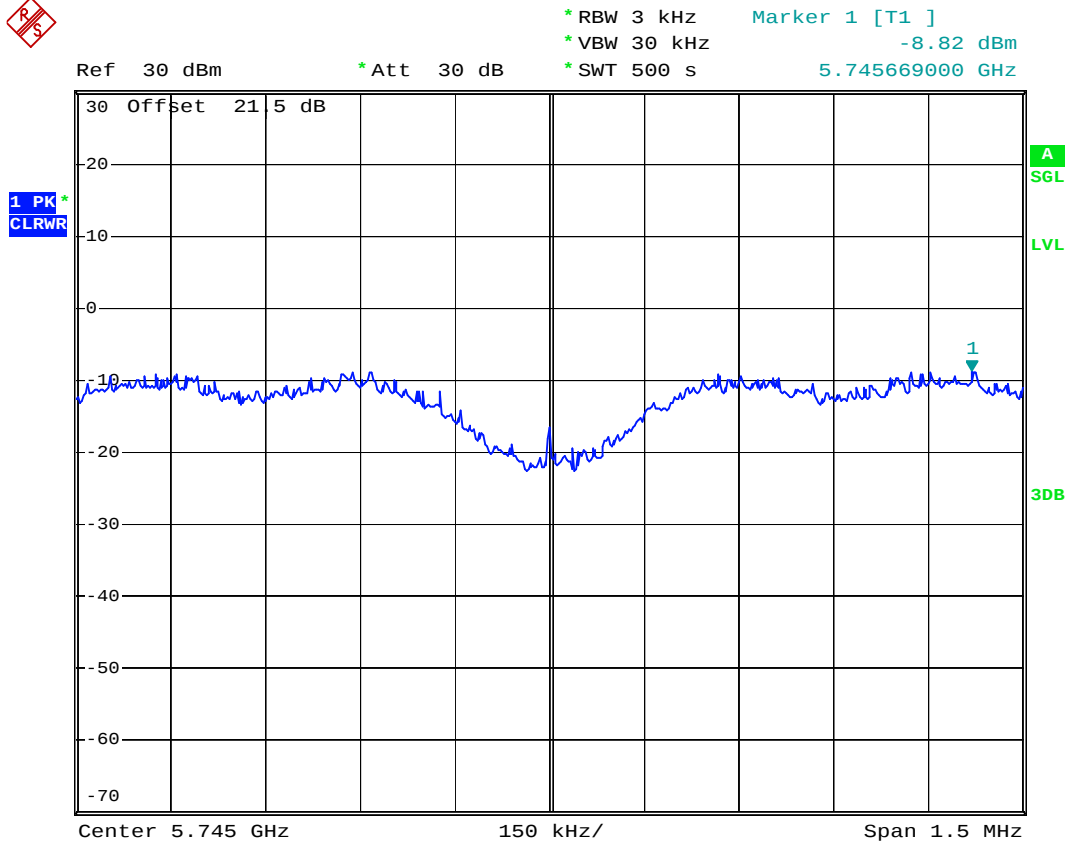
Mode 12



Date: 10.NOV.2007 00:22:34



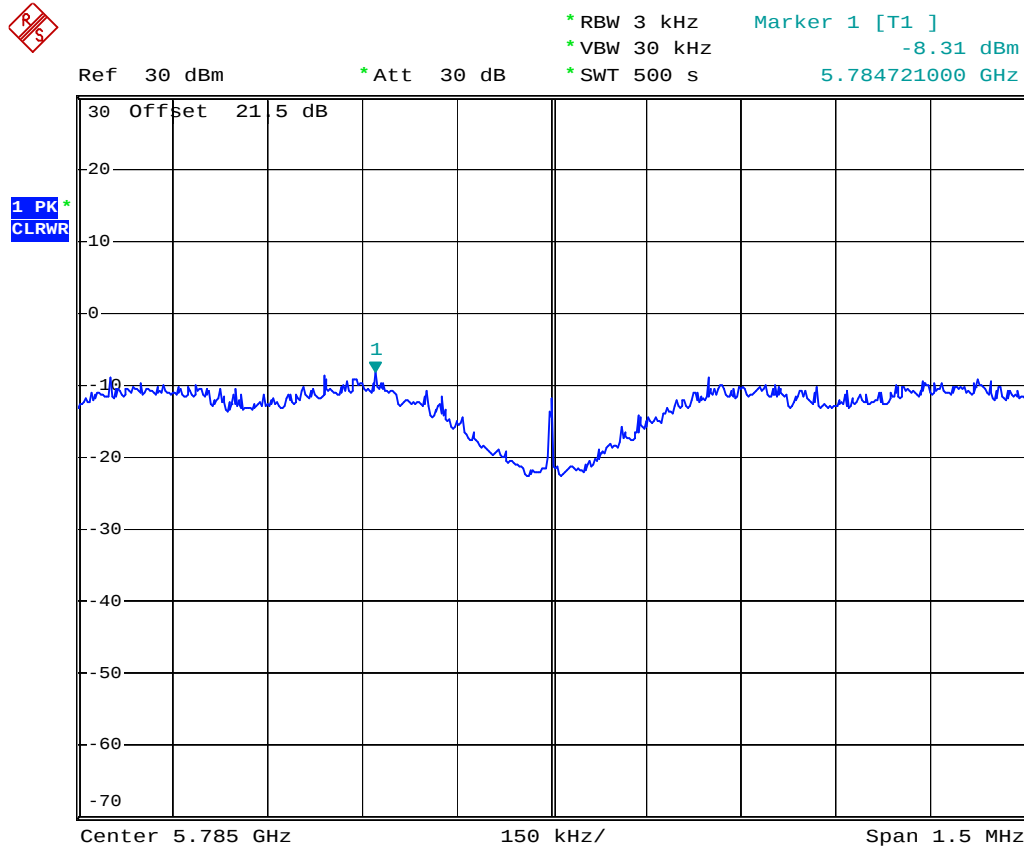
Mode 13



Date: 10.NOV.2007 00:57:56



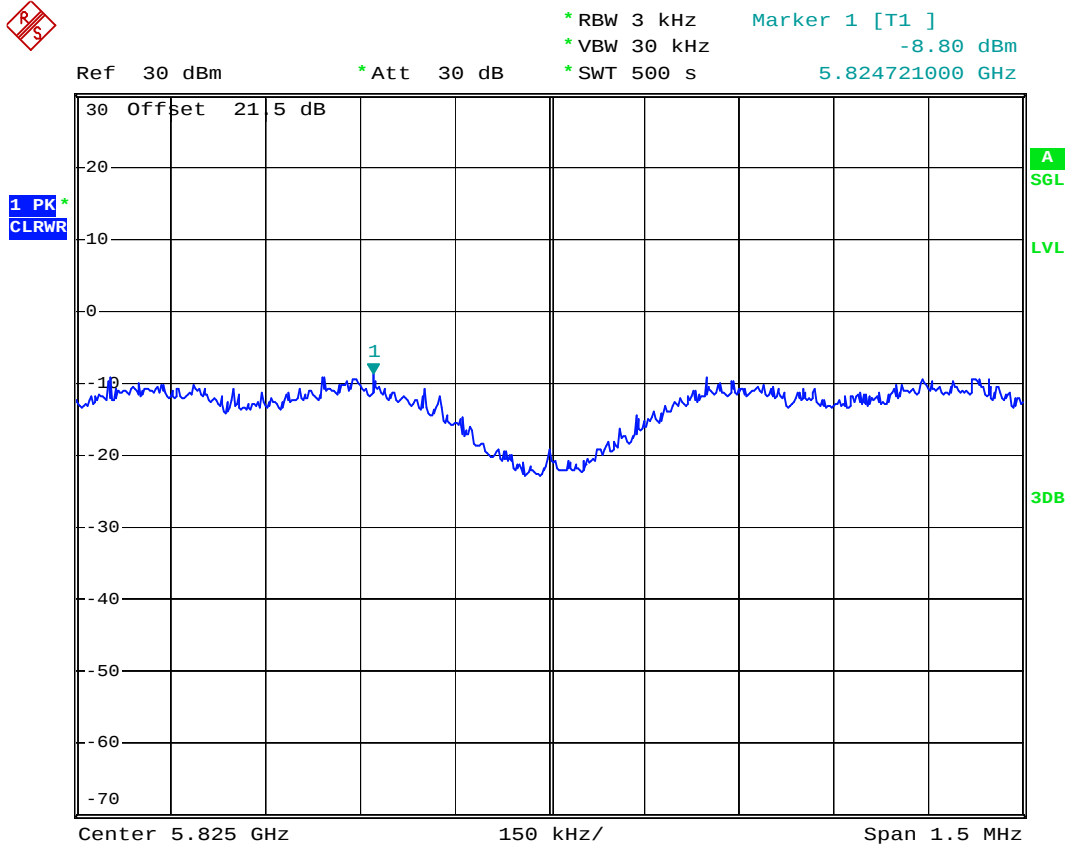
Mode 14



Date: 10.NOV.2007 01:07:16



Mode 15



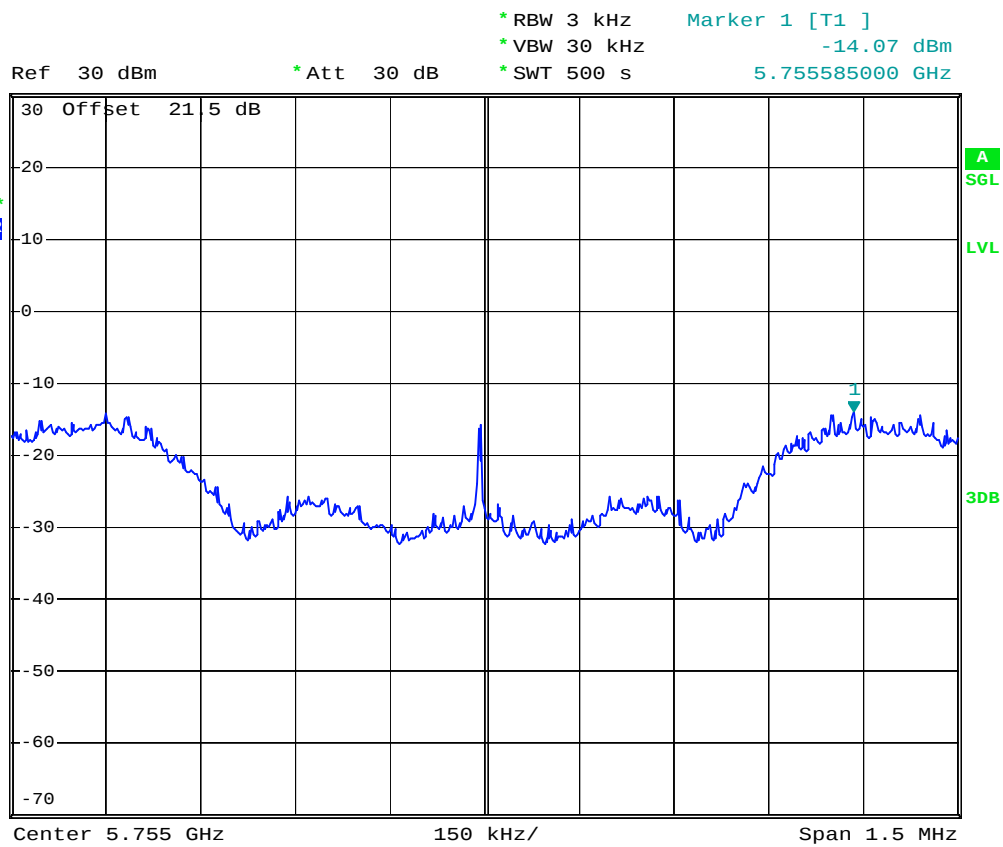
Date: 10.NOV.2007 01:17:37



Mode 16



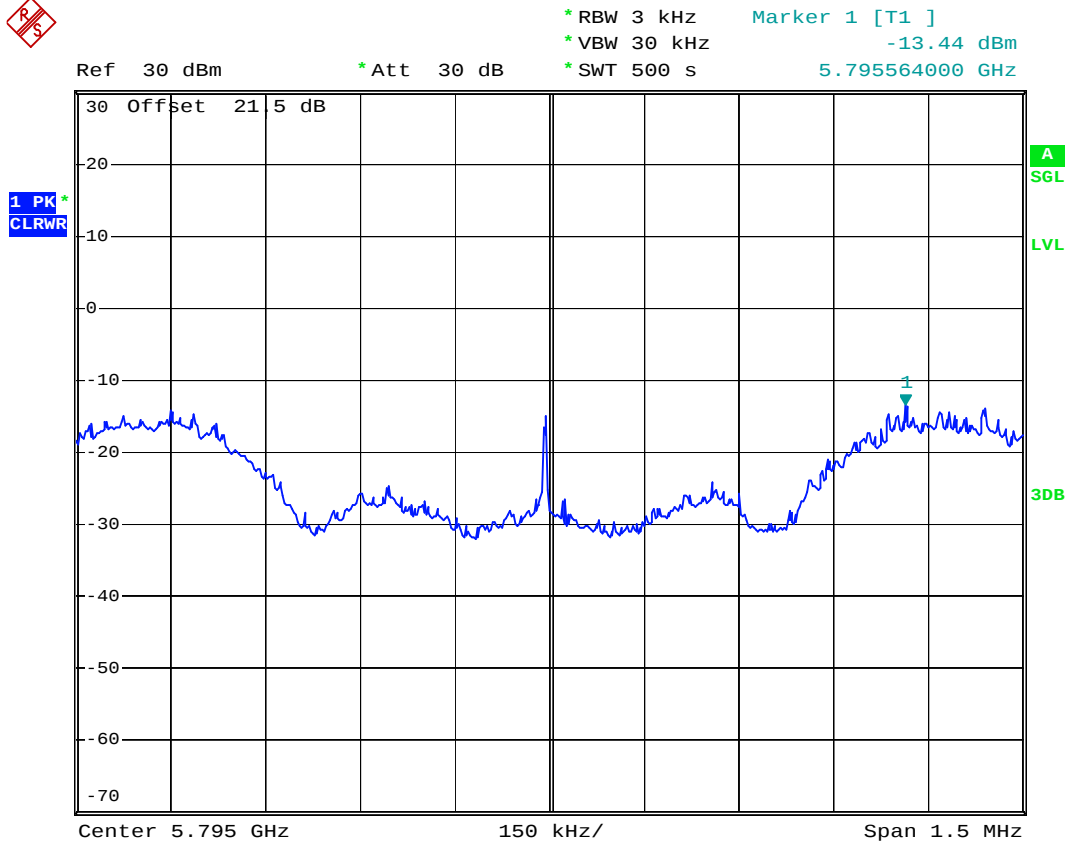
1 PK\*  
CLRWR



Date: 10.NOV.2007 02:04:12



Mode 17



Date: 10.NOV.2007 02:14:01



## 5.4 Band Edges Measurement

### 5.4.1 Measuring Instruments

As described in chapter 6 of this test report.

### 5.4.2 Test Procedure

1. The transmitter output was connected to the spectrum analyzer via a low lose 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

- Application Type : WLAN 802.11b/g
- Temperature : 25~26°C
- Relative Humidity : 49~51%
- Test Engineer : Ken
  
- Test Result in WLAN lower band (802.11b/g) : PASS
- Test Result in WLAN higher band (802.11b/g) : PASS
- Test Result in WLAN lower band (802.11a Band III) : PASS
- Test Result in WLAN higher band (802.11a Band III) : PASS
- Test Result in WLAN lower band (802.11n<g>\_BW 20M) : PASS
- Test Result in WLAN higher band (802.11n<g>\_BW 20M) : PASS
- Test Result in WLAN lower band (802.11n<a>\_BW 20M) : PASS
- Test Result in WLAN higher band (802.11n<a>\_BW 20M) : PASS
- Test Result in WLAN lower band (802.11n<a>\_BW 40M) : PASS
- Test Result in WLAN higher band (802.11n<a>\_BW 40M) : PASS



## 5.4.4 Note on Band Edge Emission :

**➤WLAN 802.11b**

CH01 (Horizontal)

| Frequency<br>( MHz ) | Level<br>( dBuV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBuV/m ) | Read<br>Level<br>( dBuV ) | Antenna<br>Factor<br>( dB ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Remark  |
|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 2390.000             | 51.57               | -22.43                  | 74.00                       | 53.54                     | 28.07                       | 3.74                    | 33.78                      | 100                  | 0                       | Peak    |
| 2390.000             | 38.29               | -15.71                  | 54.00                       | 40.26                     | 28.07                       | 3.74                    | 33.78                      | 100                  | 38                      | Average |

CH01 (Vertical)

| Frequency<br>( MHz ) | Level<br>( dBuV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBuV/m ) | Read<br>Level<br>( dBuV ) | Antenna<br>Factor<br>( dB ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Remark  |
|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 2390.000             | 47.81               | -26.19                  | 74.00                       | 49.78                     | 28.07                       | 3.74                    | 33.78                      | 100                  | 0                       | Peak    |
| 2390.000             | 34.50               | -19.50                  | 54.00                       | 36.47                     | 28.07                       | 3.74                    | 33.78                      | 100                  | 97                      | Average |

CH11 (Horizontal)

| Frequency<br>( MHz ) | Level<br>( dBuV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBuV/m ) | Read<br>Level<br>( dBuV ) | Antenna<br>Factor<br>( dB ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Remark  |
|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 2483.500             | 53.38               | -20.62                  | 74.00                       | 55.08                     | 28.26                       | 3.84                    | 33.80                      | 100                  | 0                       | Peak    |
| 2483.500             | 38.90               | -15.10                  | 54.00                       | 40.60                     | 28.26                       | 3.84                    | 33.80                      | 100                  | 32                      | Average |

CH11 (Vertical)

| Frequency<br>( MHz ) | Level<br>( dBuV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBuV/m ) | Read<br>Level<br>( dBuV ) | Antenna<br>Factor<br>( dB ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Remark  |
|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 2483.500             | 49.44               | -24.56                  | 74.00                       | 51.14                     | 28.26                       | 3.84                    | 33.80                      | 100                  | 0                       | Peak    |
| 2483.500             | 35.75               | -18.25                  | 54.00                       | 37.45                     | 28.26                       | 3.84                    | 33.80                      | 100                  | 105                     | Average |

**➤WLAN 802.11g****CH01 (Horizontal)**

| Frequency<br>( MHz ) | Level<br>( dBuV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBuV/m ) | Read<br>Level<br>( dBuV ) | Antenna<br>Factor<br>( dB ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Remark  |
|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 2390.000             | 59.77               | -14.23                  | 74.00                       | 61.74                     | 28.07                       | 3.74                    | 33.78                      | 100                  | 0                       | Peak    |
| 2390.000             | 35.01               | -18.99                  | 54.00                       | 36.98                     | 28.07                       | 3.74                    | 33.78                      | 100                  | 36                      | Average |

**CH01 (Vertical)**

| Frequency<br>( MHz ) | Level<br>( dBuV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBuV/m ) | Read<br>Level<br>( dBuV ) | Antenna<br>Factor<br>( dB ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Remark  |
|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 2390.000             | 55.52               | -18.48                  | 74.00                       | 57.49                     | 28.07                       | 3.74                    | 33.78                      | 100                  | 0                       | Peak    |
| 2390.000             | 32.51               | -21.49                  | 54.00                       | 34.48                     | 28.07                       | 3.74                    | 33.78                      | 100                  | 96                      | Average |

**CH11 (Horizontal)**

| Frequency<br>( MHz ) | Level<br>( dBuV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBuV/m ) | Read<br>Level<br>( dBuV ) | Antenna<br>Factor<br>( dB ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Remark  |
|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 2483.500             | 62.13               | -11.87                  | 74.00                       | 63.83                     | 28.26                       | 3.84                    | 33.80                      | 100                  | 0                       | Peak    |
| 2483.500             | 35.81               | -18.19                  | 54.00                       | 37.51                     | 28.26                       | 3.84                    | 33.80                      | 142                  | 35                      | Average |

**CH11 (Vertical)**

| Frequency<br>( MHz ) | Level<br>( dBuV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBuV/m ) | Read<br>Level<br>( dBuV ) | Antenna<br>Factor<br>( dB ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Remark  |
|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 2483.500             | 58.88               | -15.12                  | 74.00                       | 60.58                     | 28.26                       | 3.84                    | 33.80                      | 100                  | 0                       | Peak    |
| 2483.500             | 34.55               | -19.45                  | 54.00                       | 36.25                     | 28.26                       | 3.84                    | 33.80                      | 100                  | 107                     | Average |

**➤WLAN 802.11a**

CH0149 (Horizontal)

| Frequency<br>( MHz ) | Level<br>( dBuV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBuV/m ) | Read<br>Level<br>( dBuV ) | Antenna<br>Factor<br>( dB ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Remark  |
|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 5348.000             | 52.43               | -21.57                  | 74.00                       | 46.96                     | 33.62                       | 6.00                    | 34.15                      | 100                  | 0                       | Peak    |
| 5348.000             | 39.31               | -14.69                  | 54.00                       | 33.84                     | 33.62                       | 6.00                    | 34.15                      | 100                  | 340                     | Average |

CH0149 (Vertical)

| Frequency<br>( MHz ) | Level<br>( dBuV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBuV/m ) | Read<br>Level<br>( dBuV ) | Antenna<br>Factor<br>( dB ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Remark  |
|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 5582.000             | 52.68               | -21.32                  | 74.00                       | 46.89                     | 33.85                       | 6.01                    | 34.08                      | 100                  | 0                       | Peak    |
| 5582.000             | 40.17               | -13.83                  | 54.00                       | 34.38                     | 33.85                       | 6.01                    | 34.08                      | 120                  | 177                     | Average |

CH165 (Horizontal)

| Frequency<br>( MHz ) | Level<br>( dBuV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBuV/m ) | Read<br>Level<br>( dBuV ) | Antenna<br>Factor<br>( dB ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Remark  |
|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 6958.000             | 52.68               | -21.32                  | 74.00                       | 43.76                     | 35.10                       | 6.34                    | 32.52                      | 100                  | 0                       | Peak    |
| 6958.000             | 40.50               | -13.50                  | 54.00                       | 31.58                     | 35.10                       | 6.34                    | 32.52                      | 100                  | 9                       | Average |

CH165 (Vertical)

| Frequency<br>( MHz ) | Level<br>( dBuV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBuV/m ) | Read<br>Level<br>( dBuV ) | Antenna<br>Factor<br>( dB ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Remark  |
|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 6982.000             | 53.23               | -20.77                  | 74.00                       | 44.21                     | 35.17                       | 6.35                    | 32.50                      | 100                  | 0                       | Peak    |
| 6982.000             | 40.65               | -13.35                  | 54.00                       | 31.63                     | 35.17                       | 6.35                    | 32.50                      | 127                  | 8                       | Average |



## ➤ WLAN 802.11n(g)\_BW 20M

## CH01 (Horizontal)

| Frequency<br>( MHz ) | Level<br>( dBuV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBuV/m ) | Read<br>Level<br>( dBuV ) | Antenna<br>Factor<br>( dB ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Remark  |
|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 2390.000             | 55.34               | -18.66                  | 74.00                       | 57.31                     | 28.07                       | 3.74                    | 33.78                      | 100                  | 0                       | Peak    |
| 2390.000             | 37.50               | -16.50                  | 54.00                       | 39.47                     | 28.07                       | 3.74                    | 33.78                      | 100                  | 99                      | Average |

## CH01 (Vertical)

| Frequency<br>( MHz ) | Level<br>( dBuV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBuV/m ) | Read<br>Level<br>( dBuV ) | Antenna<br>Factor<br>( dB ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Remark  |
|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 2390.000             | 56.43               | -17.57                  | 74.00                       | 58.40                     | 28.07                       | 3.74                    | 33.78                      | 100                  | 0                       | Peak    |
| 2390.000             | 38.44               | -15.66                  | 54.00                       | 40.41                     | 28.07                       | 3.74                    | 33.78                      | 100                  | 101                     | Average |

## CH11 (Horizontal)

| Frequency<br>( MHz ) | Level<br>( dBuV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBuV/m ) | Read<br>Level<br>( dBuV ) | Antenna<br>Factor<br>( dB ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Remark  |
|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 2483.500             | 60.47               | -13.53                  | 74.00                       | 62.17                     | 28.26                       | 3.84                    | 33.80                      | 100                  | 0                       | Peak    |
| 2483.500             | 41.73               | -12.27                  | 54.00                       | 43.43                     | 28.26                       | 3.84                    | 33.80                      | 103                  | 203                     | Average |

## CH11 (Vertical)

| Frequency<br>( MHz ) | Level<br>( dBuV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBuV/m ) | Read<br>Level<br>( dBuV ) | Antenna<br>Factor<br>( dB ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Remark  |
|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 2483.500             | 63.11               | -10.89                  | 74.00                       | 64.81                     | 28.26                       | 3.84                    | 33.80                      | 100                  | 0                       | Peak    |
| 2483.500             | 42.58               | -11.42                  | 54.00                       | 44.28                     | 28.26                       | 3.84                    | 33.80                      | 100                  | 103                     | Average |



## ➤ WLAN 802.11n(a)\_BW 20M

## CH0149 (Horizontal)

| Frequency<br>( MHz ) | Level<br>( dBuV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBuV/m ) | Read<br>Level<br>( dBuV ) | Antenna<br>Factor<br>( dB ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Remark  |
|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 5670.000             | 55.52               | -18.48                  | 74.00                       | 49.66                     | 33.90                       | 6.02                    | 34.07                      | 100                  | 0                       | Peak    |
| 5670.000             | 42.24               | -11.76                  | 54.00                       | 36.38                     | 33.90                       | 6.02                    | 34.07                      | 100                  | 344                     | Average |

## CH0149 (Vertical)

| Frequency<br>( MHz ) | Level<br>( dBuV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBuV/m ) | Read<br>Level<br>( dBuV ) | Antenna<br>Factor<br>( dB ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Remark  |
|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 5588.000             | 52.15               | -21.85                  | 74.00                       | 46.36                     | 33.85                       | 6.01                    | 34.08                      | 100                  | 0                       | Peak    |
| 5588.000             | 39.84               | -14.16                  | 54.00                       | 34.05                     | 33.85                       | 6.01                    | 34.08                      | 100                  | 324                     | Average |

## CH165 (Horizontal)

| Frequency<br>( MHz ) | Level<br>( dBuV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBuV/m ) | Read<br>Level<br>( dBuV ) | Antenna<br>Factor<br>( dB ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Remark  |
|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 6910.000             | 52.45               | -21.55                  | 74.00                       | 43.66                     | 35.03                       | 6.33                    | 32.56                      | 100                  | 0                       | Peak    |
| 6910.000             | 39.48               | -14.52                  | 54.00                       | 30.69                     | 35.03                       | 6.33                    | 32.56                      | 100                  | 305                     | Average |

## CH165 (Vertical)

| Frequency<br>( MHz ) | Level<br>( dBuV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBuV/m ) | Read<br>Level<br>( dBuV ) | Antenna<br>Factor<br>( dB ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Remark  |
|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 6894.000             | 53.03               | -20.97                  | 74.00                       | 44.29                     | 34.99                       | 6.33                    | 32.58                      | 100                  | 0                       | Peak    |
| 6894.000             | 40.12               | -13.88                  | 54.00                       | 31.38                     | 34.99                       | 6.33                    | 32.58                      | 102                  | 4                       | Average |

**➤ WLAN 802.11n(g)\_BW 40M****CH0151 (Horizontal)**

| Frequency | Level      | Over   | Limit      | Read     | Antenna | Cable  | Preamp | Ant    | Table   | Remark  |
|-----------|------------|--------|------------|----------|---------|--------|--------|--------|---------|---------|
| ( MHz )   | ( dBuV/m ) | Limit  | Line       | Level    | Factor  | Loss   | Factor | Pos    | Pos     |         |
|           |            | ( dB ) | ( dBuV/m ) | ( dBuV ) | ( dB )  | ( dB ) | ( dB ) | ( cm ) | ( deg ) |         |
| 5558.000  | 52.07      | -21.93 | 74.00      | 46.31    | 33.83   | 6.01   | 34.09  | 100    | 0       | Peak    |
| 5558.000  | 38.01      | -15.99 | 54.00      | 32.25    | 33.83   | 6.01   | 34.09  | 100    | 304     | Average |

**CH0151 (Vertical)**

| Frequency | Level      | Over   | Limit      | Read     | Antenna | Cable  | Preamp | Ant    | Table   | Remark  |
|-----------|------------|--------|------------|----------|---------|--------|--------|--------|---------|---------|
| ( MHz )   | ( dBuV/m ) | Limit  | Line       | Level    | Factor  | Loss   | Factor | Pos    | Pos     |         |
|           |            | ( dB ) | ( dBuV/m ) | ( dBuV ) | ( dB )  | ( dB ) | ( dB ) | ( cm ) | ( deg ) |         |
| 5622.000  | 51.99      | -22.10 | 74.00      | 46.18    | 33.87   | 6.02   | 34.08  | 100    | 0       | Peak    |
| 5622.000  | 38.32      | -15.68 | 54.00      | 32.51    | 33.87   | 6.02   | 34.08  | 100    | 327     | Average |

**CH159 (Horizontal)**

| Frequency | Level      | Over   | Limit      | Read     | Antenna | Cable  | Preamp | Ant    | Table   | Remark  |
|-----------|------------|--------|------------|----------|---------|--------|--------|--------|---------|---------|
| ( MHz )   | ( dBuV/m ) | Limit  | Line       | Level    | Factor  | Loss   | Factor | Pos    | Pos     |         |
|           |            | ( dB ) | ( dBuV/m ) | ( dBuV ) | ( dB )  | ( dB ) | ( dB ) | ( cm ) | ( deg ) |         |
| 6964.000  | 53.88      | -20.12 | 74.00      | 44.93    | 35.13   | 6.34   | 32.52  | 100    | 0       | Peak    |
| 6964.000  | 40.59      | -13.41 | 54.00      | 31.64    | 35.13   | 6.34   | 32.52  | 100    | 303     | Average |

**CH159 (Vertical)**

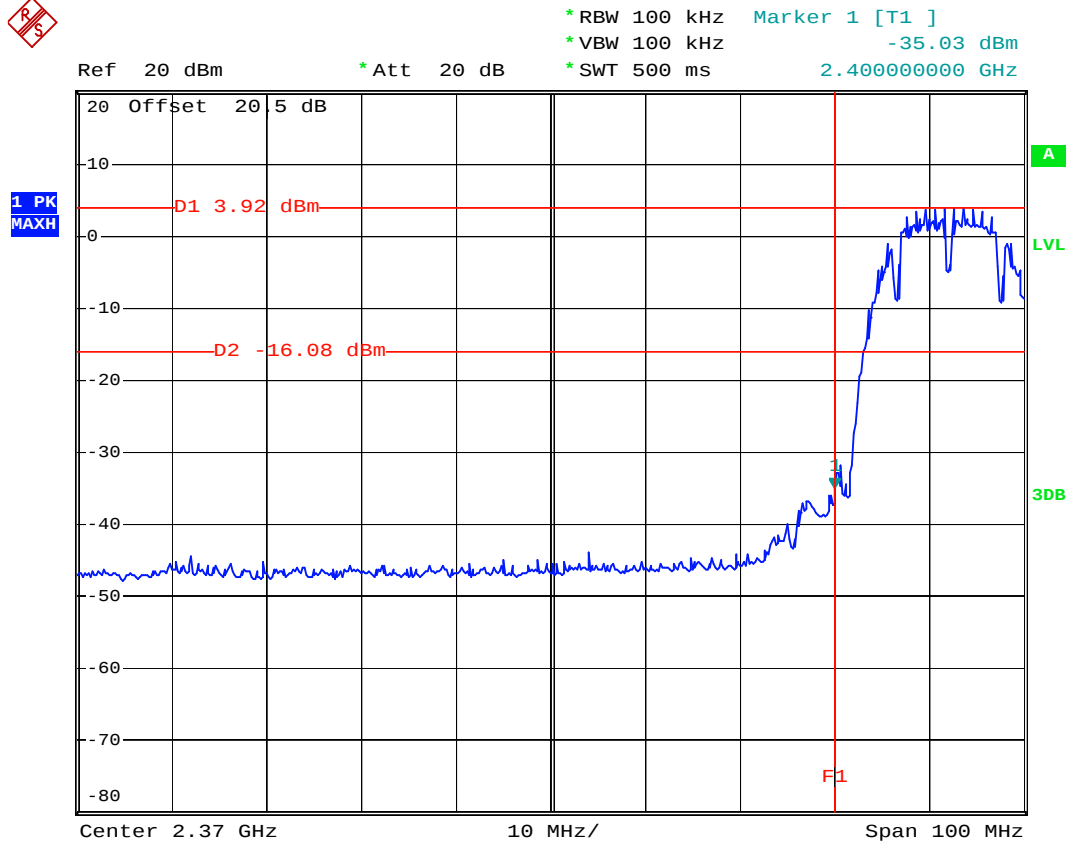
| Frequency | Level      | Over   | Limit      | Read     | Antenna | Cable  | Preamp | Ant    | Table   | Remark  |
|-----------|------------|--------|------------|----------|---------|--------|--------|--------|---------|---------|
| ( MHz )   | ( dBuV/m ) | Limit  | Line       | Level    | Factor  | Loss   | Factor | Pos    | Pos     |         |
|           |            | ( dB ) | ( dBuV/m ) | ( dBuV ) | ( dB )  | ( dB ) | ( dB ) | ( cm ) | ( deg ) |         |
| 6686.000  | 53.32      | -20.68 | 74.00      | 45.27    | 34.54   | 6.26   | 32.75  | 100    | 0       | Peak    |
| 6686.000  | 39.41      | -14.59 | 54.00      | 31.36    | 34.54   | 6.26   | 32.75  | 100    | 327     | Average |



5.4.5 Band Edge

WLAN 802.11b

CH01

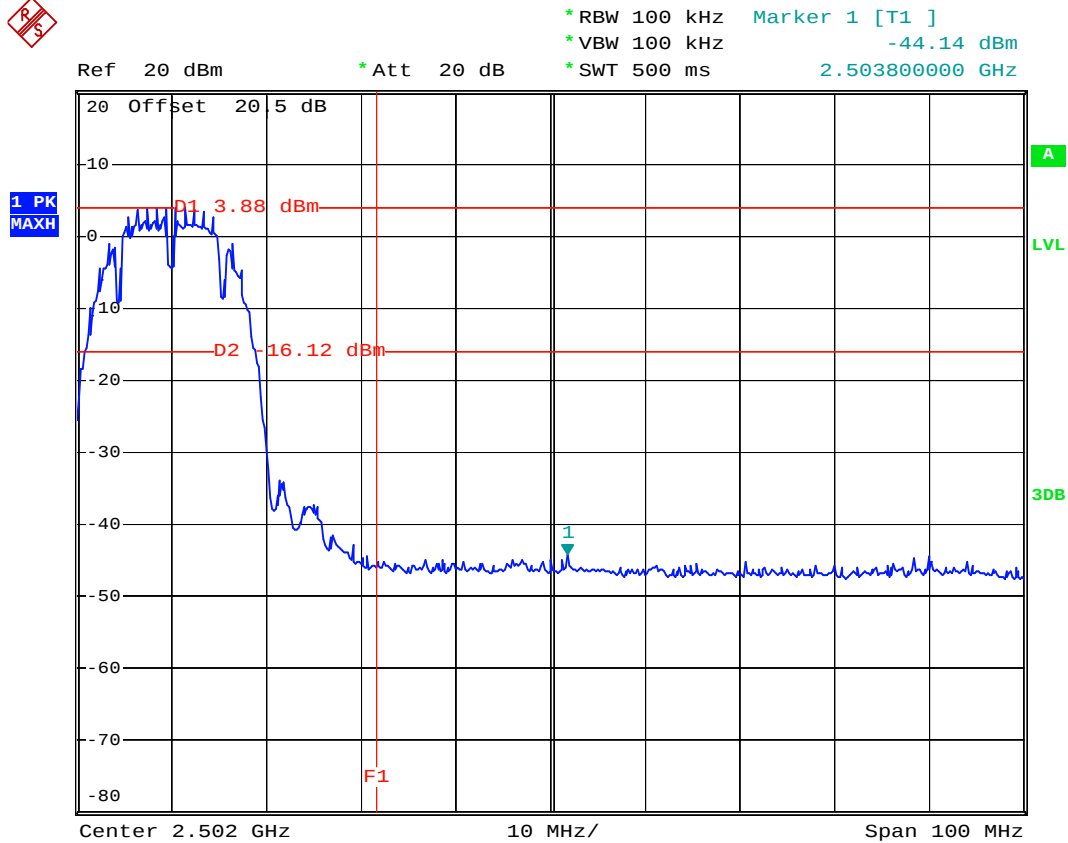


Date: 5.NOV.2007 20:12:07



WLAN 802.11b

CH11

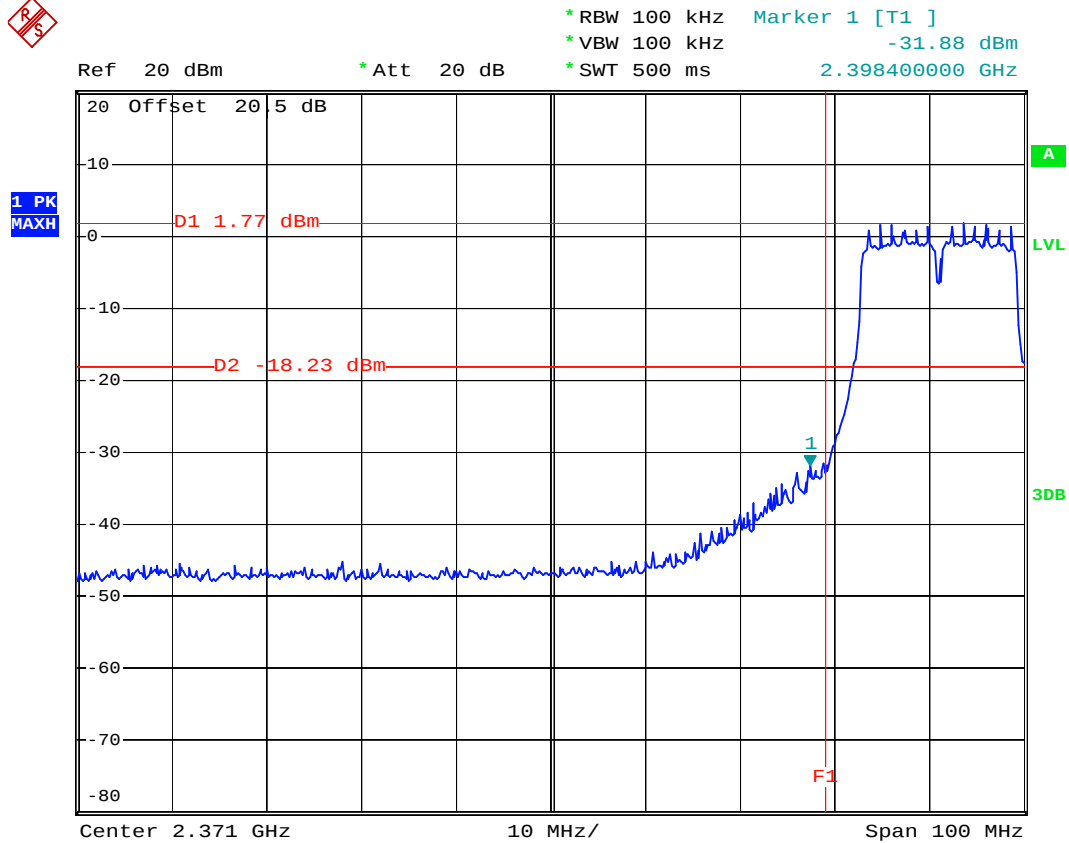


Date: 5.NOV.2007 22:24:56



WLAN 802.11g

CH01



Date: 5.NOV.2007 20:17:42

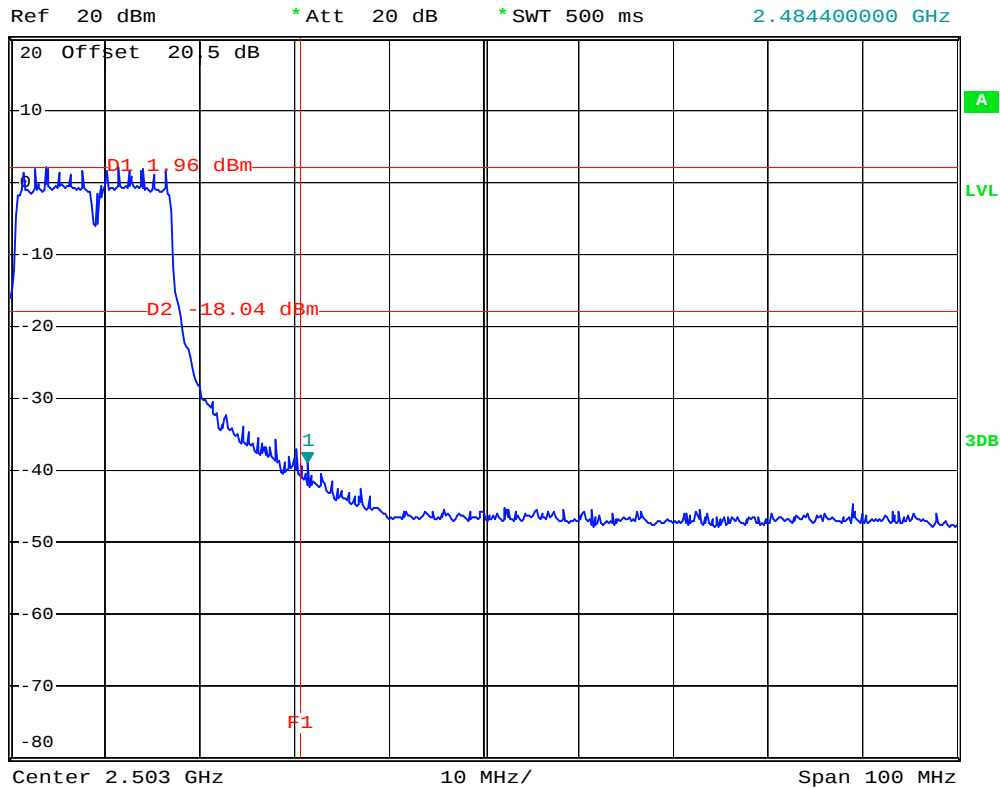


WLAN 802.11g

CH11



\* RBW 100 kHz    Marker 1 [T1 ]  
\* VBW 100 kHz    -39.04 dBm  
\* SWT 500 ms      2.484400000 GHz



Date: 5.NOV.2007 20:19:40



WLAN 802.11a

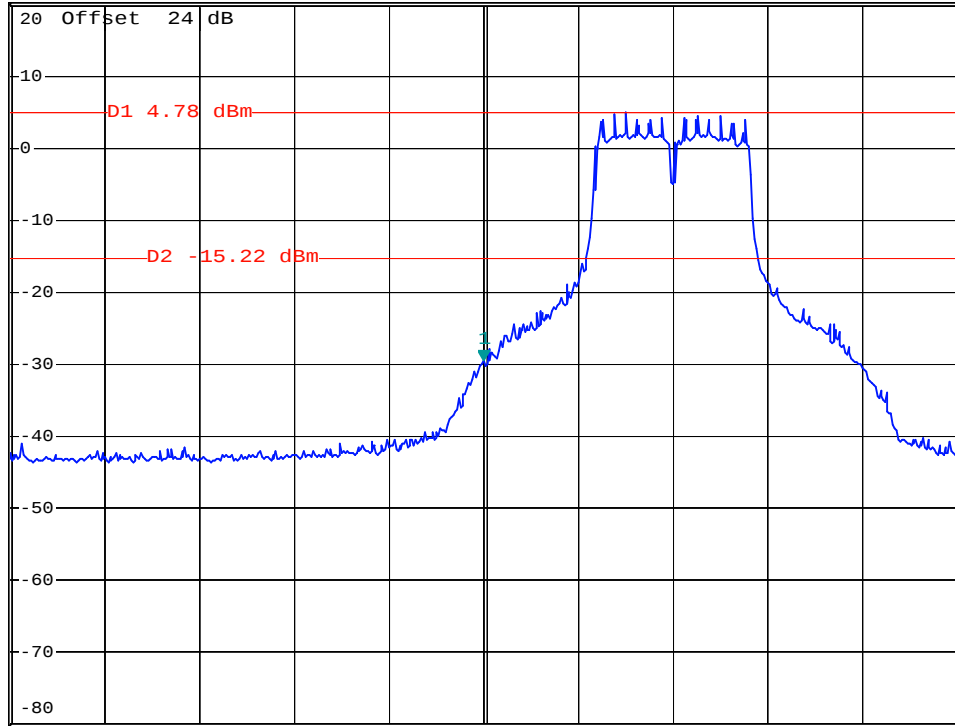
CH0149



\* RBW 100 kHz    Marker 1 [T1 ]  
\* VBW 100 kHz    -29.55 dBm  
\* SWT 500 ms      5.725000000 GHz

Ref 20 dBm

\* Att 20 dB



Center 5.725 GHz

10 MHz/

Span 100 MHz

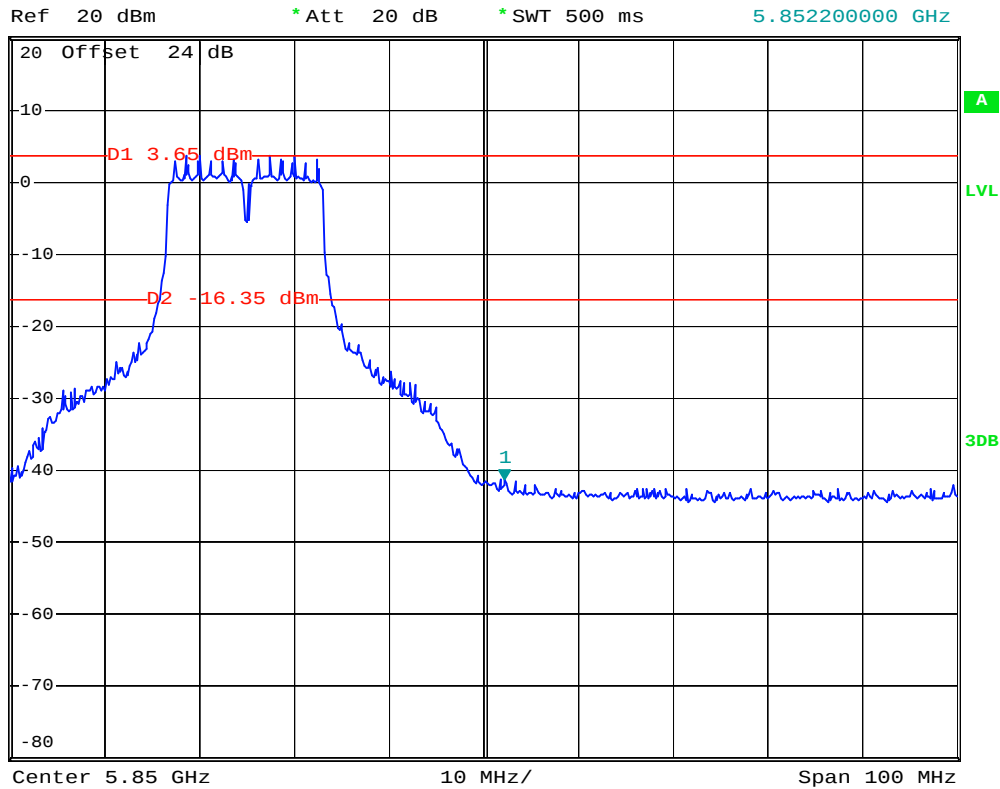
Date: 5.NOV.2007 22:58:53



CH165



\* RBW 100 kHz    Marker 1 [T1 ]  
\* VBW 100 kHz    -41.24 dBm  
\* SWT 500 ms    5.852200000 GHz



Date: 5.NOV.2007 22:55:16



WLAN 802.11n(g)\_BW 20M

CH01

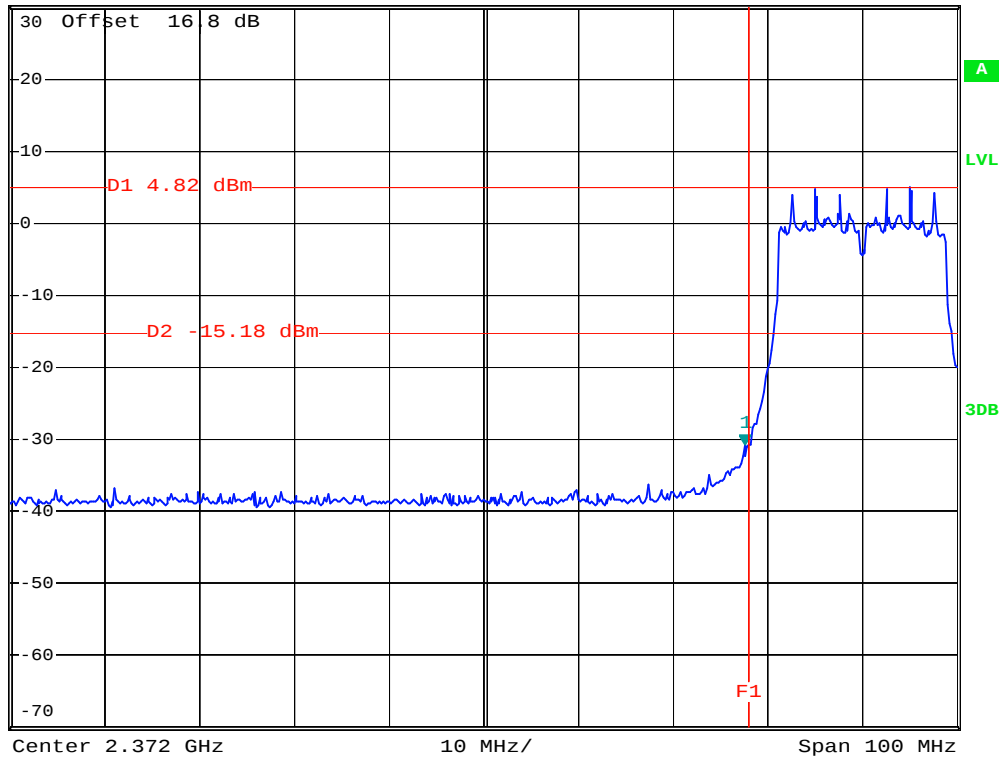


\* RBW 100 kHz    Marker 1 [T1 ]  
\* VBW 100 kHz    -30.82 dBm  
\* SWT 500 ms    2.399600000 GHz

Ref 30 dBm

\* Att 30 dB

1 PK  
MAXH



Date: 10.NOV.2007 00:31:17



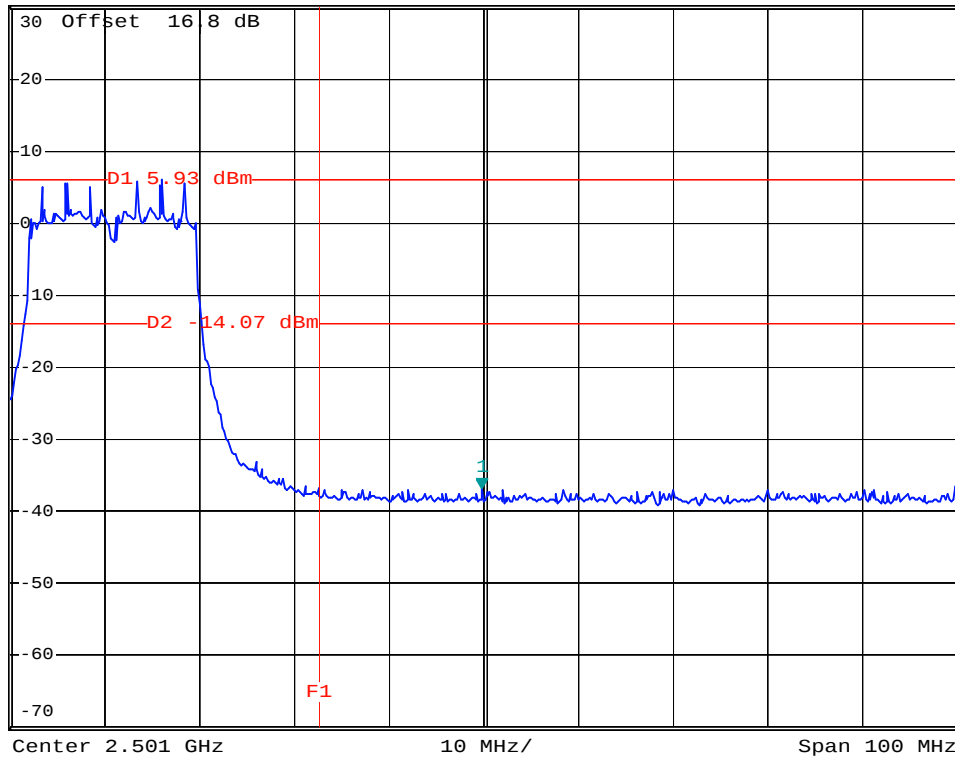
CH11



\* RBW 100 kHz    Marker 1 [T1 ]  
\* VBW 100 kHz    -36.74 dBm  
\* SWT 500 ms    2.500800000 GHz

Ref 30 dBm

\* Att 30 dB



Date: 10.NOV.2007 00:34:38



WLAN 802.11n(a)\_BW 20M

CH149

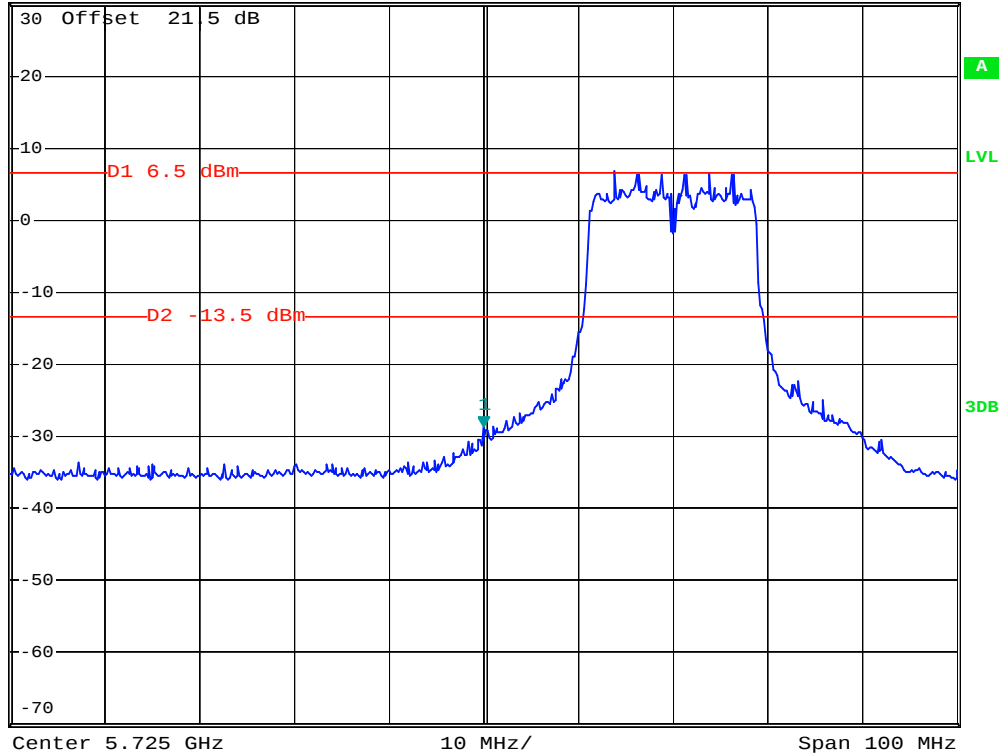


\* RBW 100 kHz    Marker 1 [T1]  
\* VBW 100 kHz    -28.72 dBm  
\* SWT 500 ms    5.725000000 GHz

Ref 30 dBm

\* Att 30 dB

1 PK  
MAXH



Date: 10.NOV.2007 01:31:07



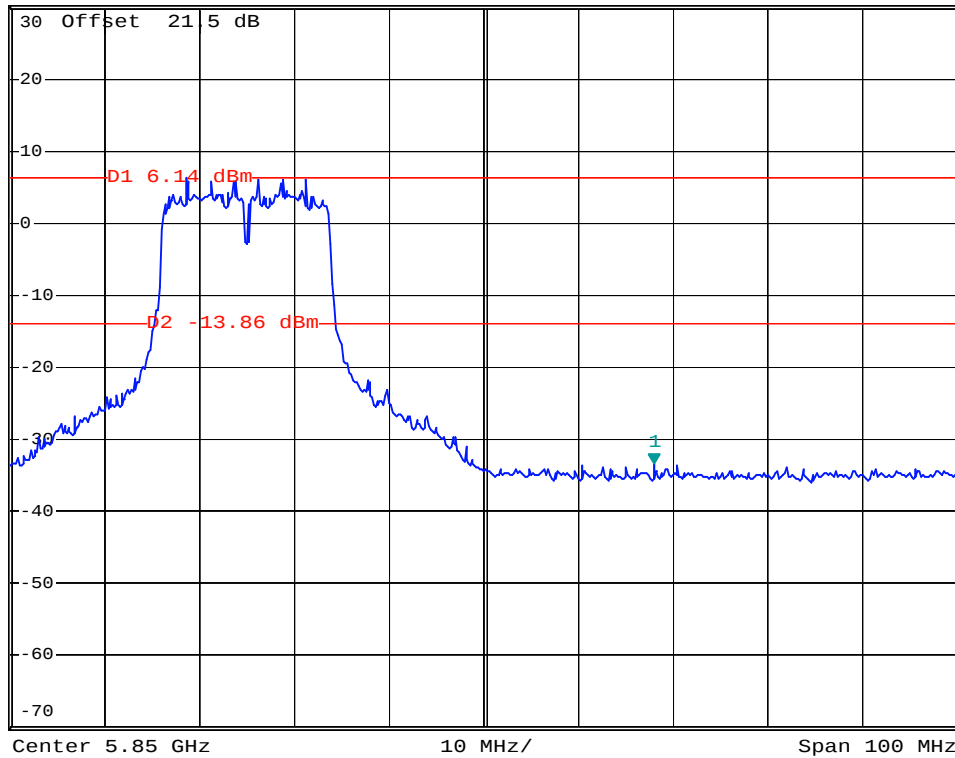
CH165



\* RBW 100 kHz    Marker 1 [T1 ]  
\* VBW 100 kHz    -33.50 dBm  
\* SWT 500 ms    5.868000000 GHz

Ref 30 dBm

\* Att 30 dB



Date: 10.NOV.2007 01:27:40



WLAN 802.11n(a)\_BW 40M

CH151

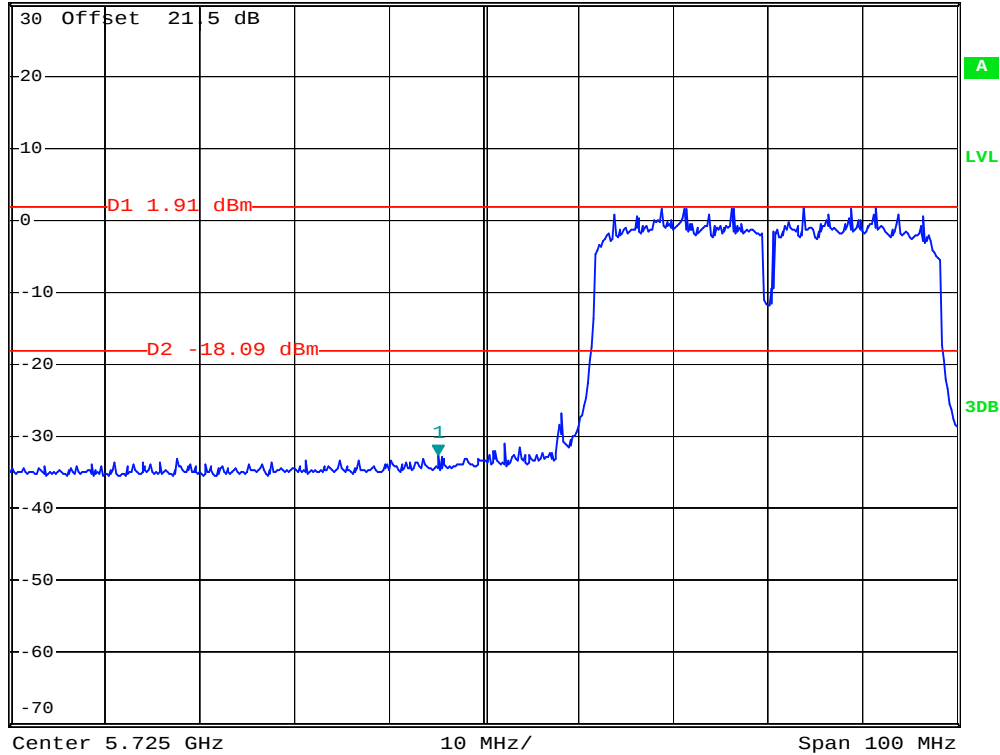


\* RBW 100 kHz    Marker 1 [T1 ]  
\* VBW 100 kHz    -32.73 dBm  
\* SWT 500 ms    5.720200000 GHz

Ref 30 dBm

\* Att 30 dB

1 PK  
MAXH



Date: 10.NOV.2007 02:39:17



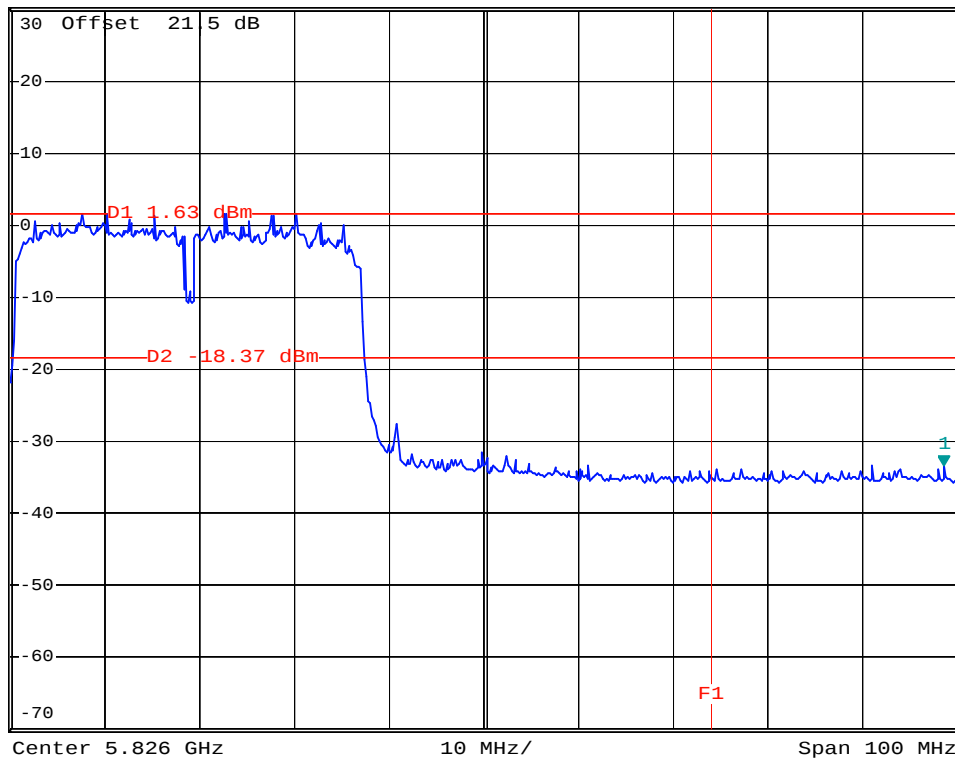
CH159



\* RBW 100 kHz    Marker 1 [T1 ]  
\* VBW 100 kHz    -33.43 dBm  
\* SWT 500 ms    5.874600000 GHz

Ref 30 dBm

\* Att 30 dB



Date: 10.NOV.2007 02:45:14

## 5.5 Peak Output Power Measurement

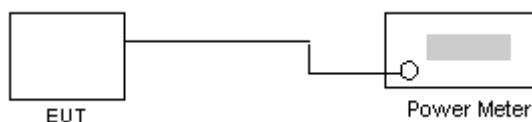
### 5.5.1 Measuring Instruments

As described in chapter 6 of this test report.

### 5.5.2 Test Procedure

The antenna port of the EUT was connected to the 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 :**

- Application Type : WLAN 802.11b/g
- Temperature : 25~26°C
- Relative Humidity : 49~51%
- Test Enginner : Ken

**WLAN 802.11b**

| Channel | Frequency<br>(MHz) | Measured Output Power<br>(dBm) | Limits<br>(Watt / dBm) |
|---------|--------------------|--------------------------------|------------------------|
| 01      | 2412               | 14.06                          | 1W / 30dBm             |
| 06      | 2437               | 14.33                          | 1W / 30dBm             |
| 11      | 2462               | 14.66                          | 1W / 30dBm             |

**WLAN 802.11g**

| Channel | Frequency<br>(MHz) | Measured Output Power<br>(dBm) | Limits<br>(Watt / dBm) |
|---------|--------------------|--------------------------------|------------------------|
| 01      | 2412               | 20.50                          | 1W / 30dBm             |
| 06      | 2437               | 20.67                          | 1W / 30dBm             |
| 11      | 2462               | 21.66                          | 1W / 30dBm             |

**WLAN 802.11a**

| Channel | Frequency<br>(MHz) | Measured Output Power<br>(dBm) | Limits<br>(Watt / dBm) |
|---------|--------------------|--------------------------------|------------------------|
| 149     | 5745               | 21.09                          | 1W / 30dBm             |
| 157     | 5785               | 20.35                          | 1W / 30dBm             |
| 165     | 5825               | 20.35                          | 1W / 30dBm             |

**WLAN 802.11n(g) BW 20M**

| Channel | Frequency<br>(MHz) | Measured Output Power<br>(dBm) | Limits<br>(Watt / dBm) |
|---------|--------------------|--------------------------------|------------------------|
| 01      | 2412               | 22.96                          | 1W / 30dBm             |
| 06      | 2437               | 23.06                          | 1W / 30dBm             |
| 11      | 2462               | 23.94                          | 1W / 30dBm             |

**WLAN 802.11n(a) BW 20M**

| Channel | Frequency<br>(MHz) | Measured Output Power<br>(dBm) | Limits<br>(Watt / dBm) |
|---------|--------------------|--------------------------------|------------------------|
| 149     | 5745               | 24.83                          | 1W / 30dBm             |
| 157     | 5785               | 24.48                          | 1W / 30dBm             |
| 165     | 5825               | 23.89                          | 1W / 30dBm             |

**WLAN 802.11n(a) BW 40M**

| Channel | Frequency<br>(MHz) | Measured Output Power<br>(dBm) | Limits<br>(Watt / dBm) |
|---------|--------------------|--------------------------------|------------------------|
| 151     | 5755               | 21.89                          | 1W / 30dBm             |
| 159     | 5795               | 21.68                          | 1W / 30dBm             |

## 5.6 Conducted Emission

### 5.6.1 Measuring Instruments

As described in chapter 6 of this test Report.

The receiver setting :

|                  |                                                          |
|------------------|----------------------------------------------------------|
| 150 KHz ~ 30 MHz | Detector : Quasi – Peak and Average<br>Bandwidth : 9 KHz |
|------------------|----------------------------------------------------------|

### 5.6.2 Test Procedures

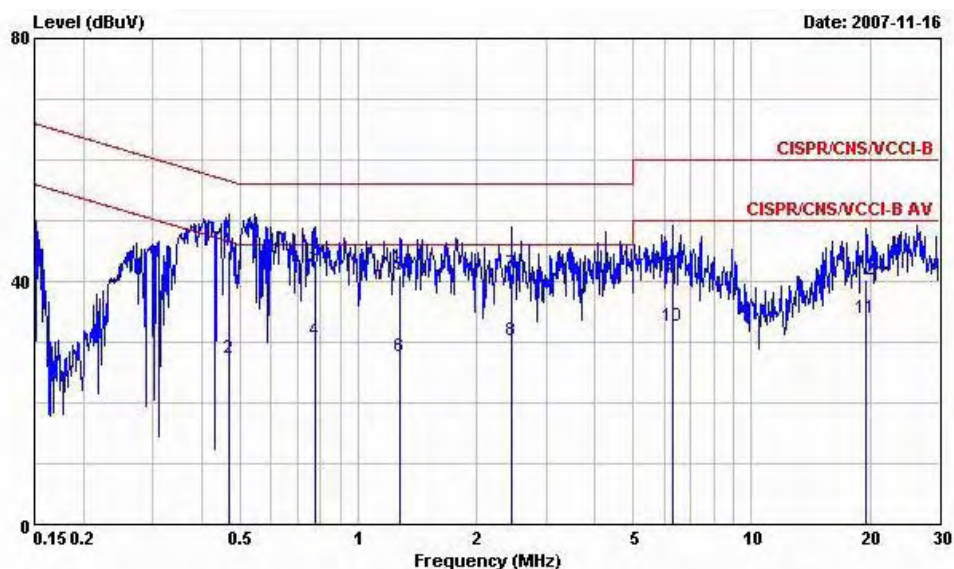
- The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- Connect EUT to the power port of a line impedance stabilization network (LISN).
- All the support units are connected to the other LISN.
- The LISN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



## 5.6.3 Test Data

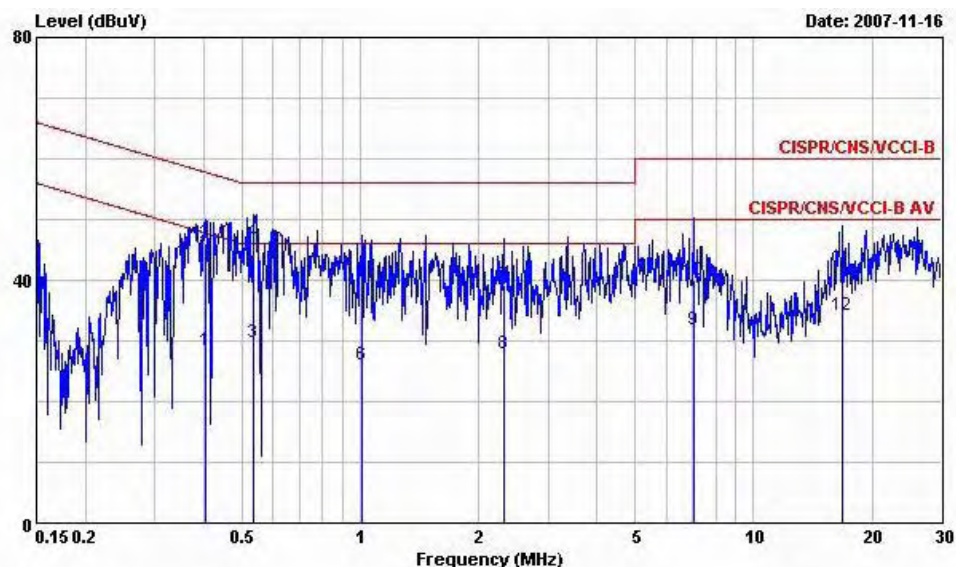
- Temperature : 25~26°C
- Relative Humidity : 49~51%
- Test Enginner : Ken
- Test Mode : Mode 1

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



Site : CO04-HY  
 Condition : CISPR/CNS/VCCI-B LISN 200704 99041 LINE  
 EUT : N/B  
 POWER: 120V/60Hz  
 Model : FR701819  
 Memo : WLAN Link+BT Link+Adaptor

|    | Freq       | Level | Over<br>Limit | Limit<br>Line | Read<br>Level | LISN<br>Factor | Cable<br>Loss | Remark  |
|----|------------|-------|---------------|---------------|---------------|----------------|---------------|---------|
|    | MHz        | dBuV  | dB            | dBuV          | dBuV          | dB             | dB            |         |
| 1  | @0.4686110 | 45.06 | -11.48        | 56.54         | 44.28         | 0.10           | 0.68          | QP      |
| 2  | @0.4686110 | 27.40 | -19.14        | 46.54         | 26.62         | 0.10           | 0.68          | Average |
| 3  | @0.7751940 | 43.30 | -12.70        | 56.00         | 42.68         | 0.10           | 0.52          | QP      |
| 4  | @0.7751940 | 30.23 | -15.77        | 46.00         | 29.61         | 0.10           | 0.52          | Average |
| 5  | @ 1.280    | 41.04 | -14.96        | 56.00         | 40.50         | 0.10           | 0.44          | QP      |
| 6  | @ 1.280    | 27.56 | -18.44        | 46.00         | 27.02         | 0.10           | 0.44          | Average |
| 7  | @ 2.460    | 41.28 | -14.72        | 56.00         | 40.78         | 0.10           | 0.40          | QP      |
| 8  | @ 2.460    | 30.33 | -15.67        | 46.00         | 29.83         | 0.10           | 0.40          | Average |
| 9  | @ 6.290    | 41.15 | -18.85        | 60.00         | 40.73         | 0.15           | 0.27          | QP      |
| 10 | @ 6.290    | 32.76 | -17.24        | 50.00         | 32.34         | 0.15           | 0.27          | Average |
| 11 | @ 19.530   | 33.87 | -16.13        | 50.00         | 33.59         | 0.23           | 0.05          | Average |
| 12 | @ 19.530   | 40.17 | -19.83        | 60.00         | 39.89         | 0.23           | 0.05          | QP      |



Site : CO04-HY  
Condition : CISPR/CNS/VCCI-B LISN 200704 99041 NEUTRAL  
EUT : N/B  
POWER: 120V/60Hz  
Model : FR701819  
Memo : WLAN Link+BT Link+Adaptor

|    | Freq       | Level | Over Limit | Limit Line | Read Level | LISN Factor | Cable Loss | Remark  |
|----|------------|-------|------------|------------|------------|-------------|------------|---------|
|    | MHz        | dBuV  | dB         | dBuV       | dBuV       | dB          | dB         |         |
| 1  | @0.4040020 | 28.40 | -19.37     | 47.77      | 27.57      | 0.10        | 0.73       | Average |
| 2  | @0.4040020 | 46.07 | -11.70     | 57.77      | 45.24      | 0.10        | 0.73       | QP      |
| 3  | @0.5349810 | 29.63 | -16.37     | 46.00      | 28.89      | 0.10        | 0.64       | Average |
| 4  | @0.5349810 | 46.41 | -9.59      | 56.00      | 45.67      | 0.10        | 0.64       | QP      |
| 5  | @1.010     | 40.07 | -15.93     | 56.00      | 39.53      | 0.10        | 0.44       | QP      |
| 6  | @1.010     | 26.15 | -19.85     | 46.00      | 25.61      | 0.10        | 0.44       | Average |
| 7  | @2.310     | 39.29 | -16.71     | 56.00      | 38.76      | 0.12        | 0.41       | QP      |
| 8  | @2.310     | 28.02 | -17.98     | 46.00      | 27.49      | 0.12        | 0.41       | Average |
| 9  | @7.020     | 31.84 | -18.16     | 50.00      | 31.32      | 0.26        | 0.26       | Average |
| 10 | @7.020     | 40.10 | -19.90     | 60.00      | 39.58      | 0.26        | 0.26       | QP      |
| 11 | @16.840    | 41.99 | -18.01     | 60.00      | 41.59      | 0.30        | 0.10       | QP      |
| 12 | @16.840    | 34.32 | -15.68     | 50.00      | 33.92      | 0.30        | 0.10       | Average |

## 5.7 Radiated Emission Measurement

### 5.7.1 Measuring Instruments

As described in chapter 6 of this Report.

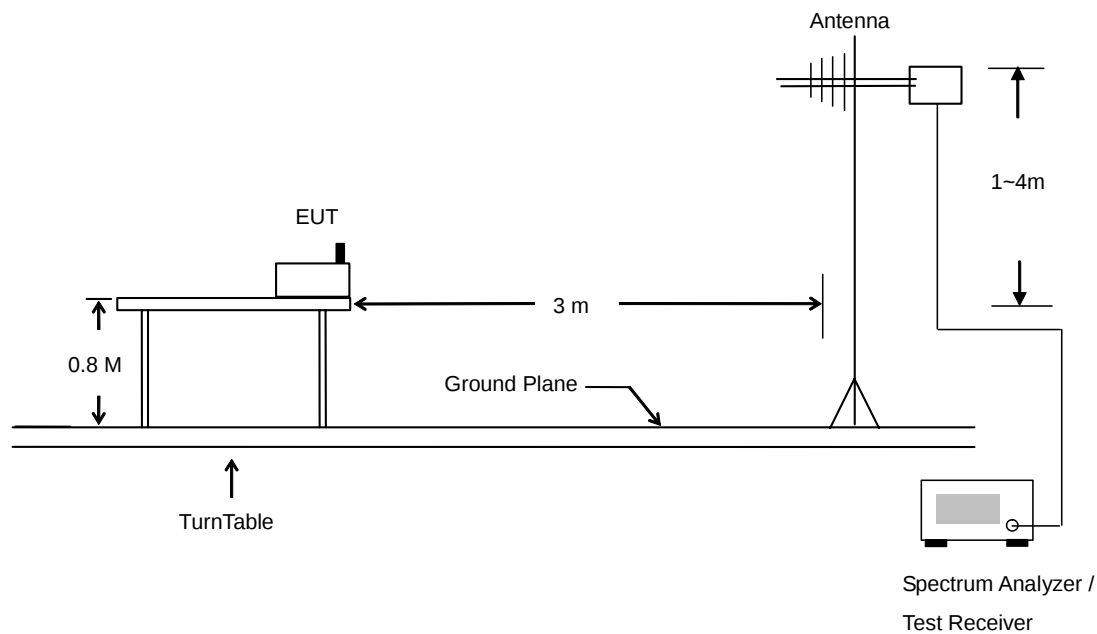
The spectrum analyzer setting :

|               |                                                  |
|---------------|--------------------------------------------------|
| 30 ~ 1000 MHz | Detector : Quasi – Peak<br>Bandwidth : 120 KHz   |
| 1 ~ 25 GHz    | Detector : Peak and Average<br>Bandwidth : 1 MHz |

### 5.7.2 Test Procedures

- The EUT was placed on a rotatable table top 0.8 meter above ground.
- The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- The table was rotated 360 degrees to determine the position of the highest radiation.
- 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.
- 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.
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- 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.
- 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.

### 5.7.3 Typical Test Setup Layout of Radiated Emission



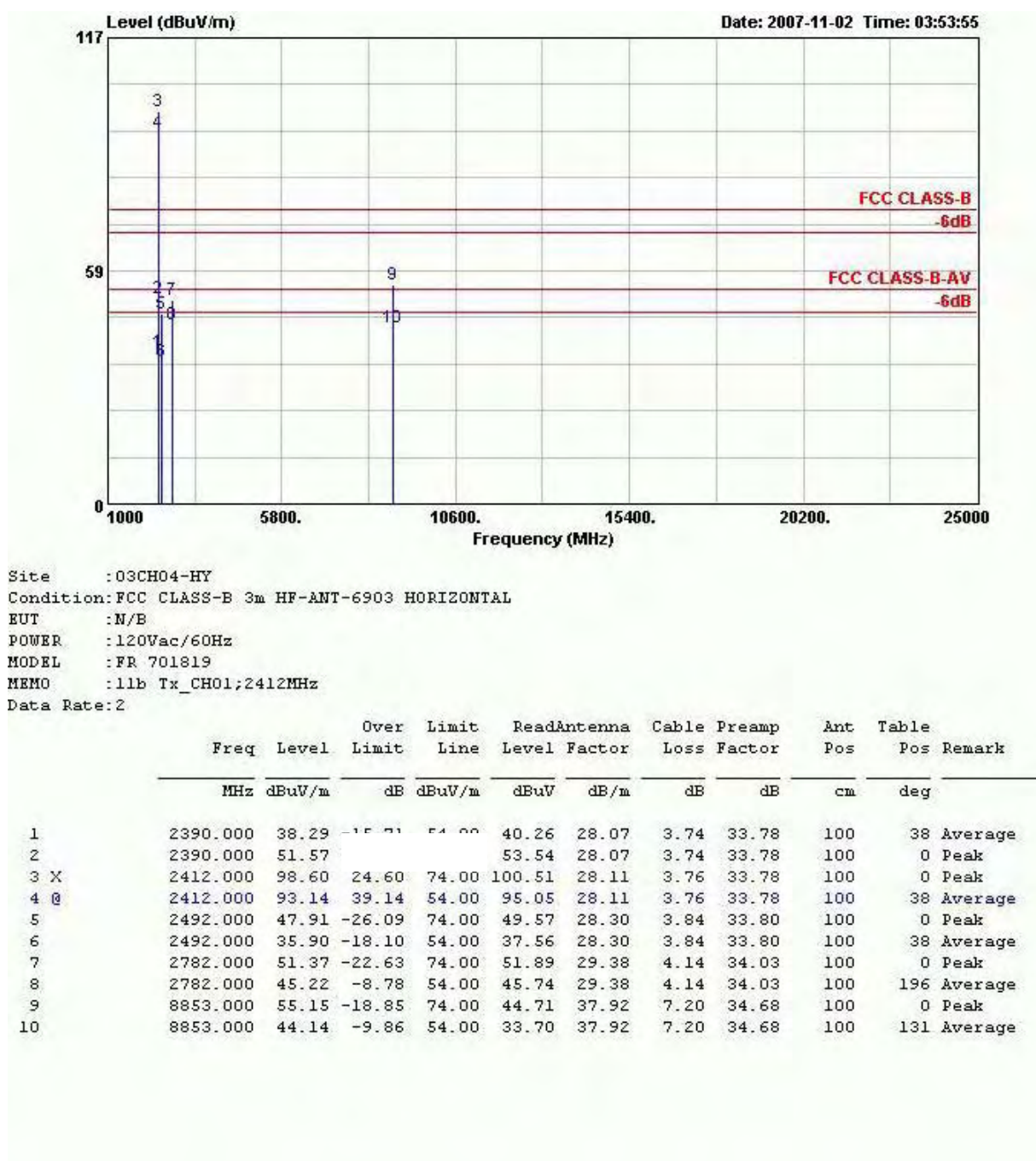


## 5.7.4 Test Data

- Temperature : 25~26°C
- Relating Humidity : 49~51%
- Test Enginner : Derek
- Test Mode : Mode 1
- Polarization : Horizontal

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



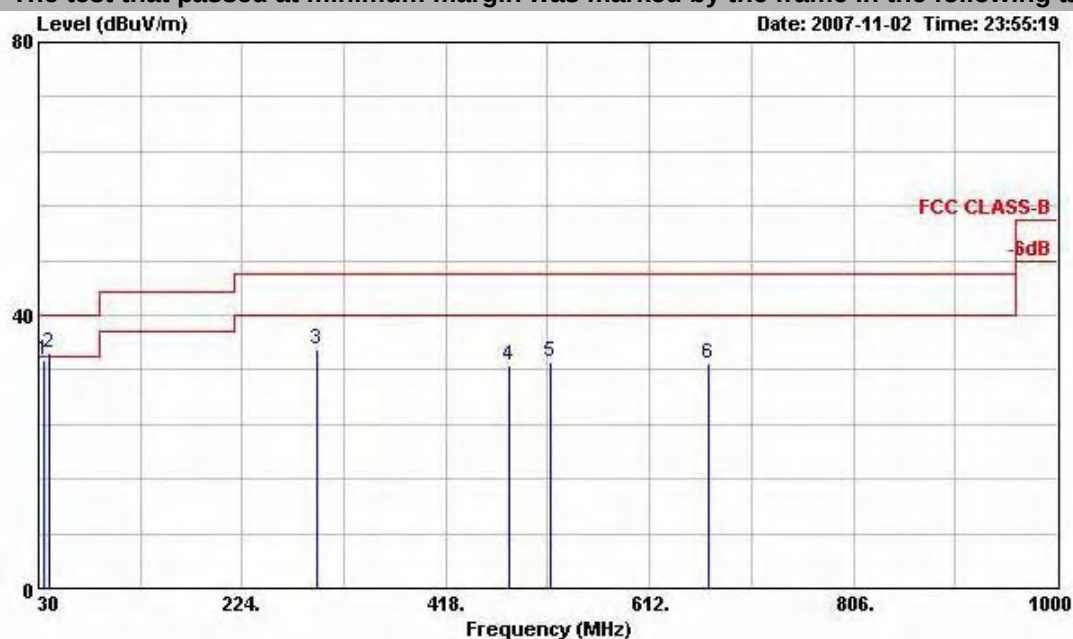


Remark: #3 and #4 Fundamental Signal



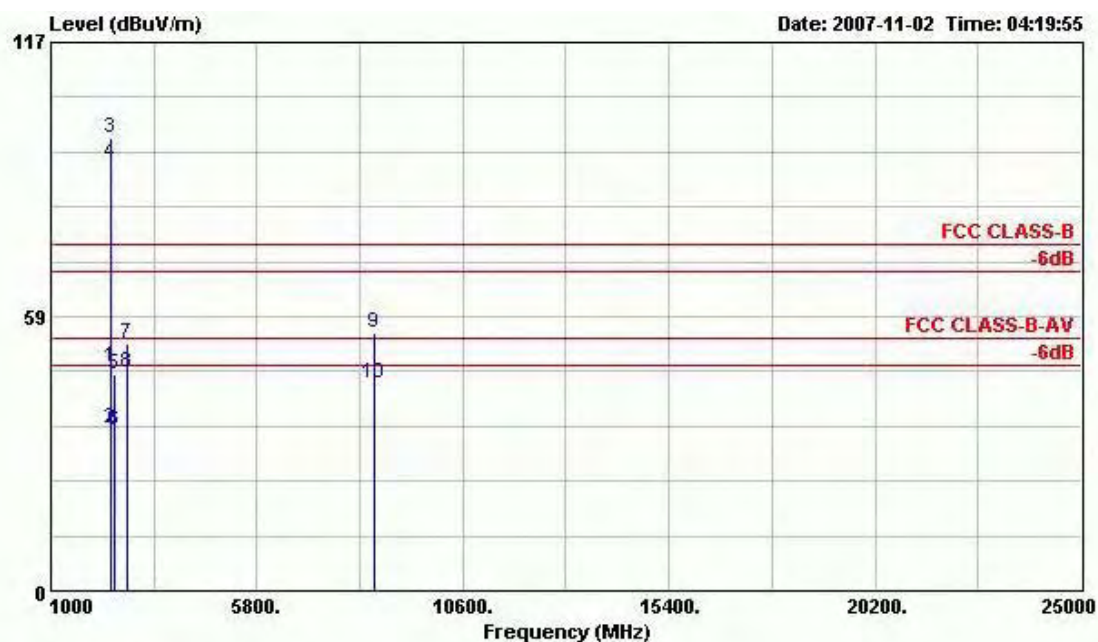
- Polarization : Vertical

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



Site : 03CH04-HY  
Condition: FCC CLASS-B 3m ANT2724 VERTICAL  
EUT : N/B  
POWER : 120Vac/60Hz  
MODEL : FR 701819  
MEMO : 11b Tx\_CH01;2412MHz  
Data Rate: 2

|   | Freq    | Level  | Over   | Limit  | ReadAntenna | Cable  | Preamp | Ant    | Table |            |
|---|---------|--------|--------|--------|-------------|--------|--------|--------|-------|------------|
|   | MHz     | dBuV/m | Limit  | Line   | Level       | Factor | Loss   | Factor | Pos   | Pos Remark |
|   |         |        | dB     | dBuV/m | dBuV        | dB/m   | dB     | dB     | cm    | deg        |
| 1 | 35.130  | 33.37  | -6.63  | 40.00  | 42.82       | 16.29  | 0.91   | 26.65  | ---   | --- Peak   |
| 2 | 39.450  | 34.49  | -5.51  | 40.00  | 48.35       | 11.82  | 0.96   | 26.64  | 100   | 154 Peak   |
| 3 | 295.410 | 34.91  | -11.09 | 46.00  | 46.10       | 12.33  | 2.22   | 25.75  | ---   | --- Peak   |
| 4 | 478.500 | 32.63  | -13.37 | 46.00  | 40.14       | 16.65  | 2.77   | 26.94  | ---   | --- Peak   |
| 5 | 517.700 | 33.06  | -12.94 | 46.00  | 39.82       | 17.43  | 2.88   | 27.07  | ---   | --- Peak   |
| 6 | 668.200 | 32.86  | -13.14 | 46.00  | 36.37       | 20.06  | 3.45   | 27.02  | ---   | --- Peak   |



Site : 03CH04-HY  
Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL  
EUT : N/B  
POWER : 120Vac/60Hz  
MODEL : FR 701819  
MEMO : 11b Tx\_CH01;2412MHz  
Data Rate: 2

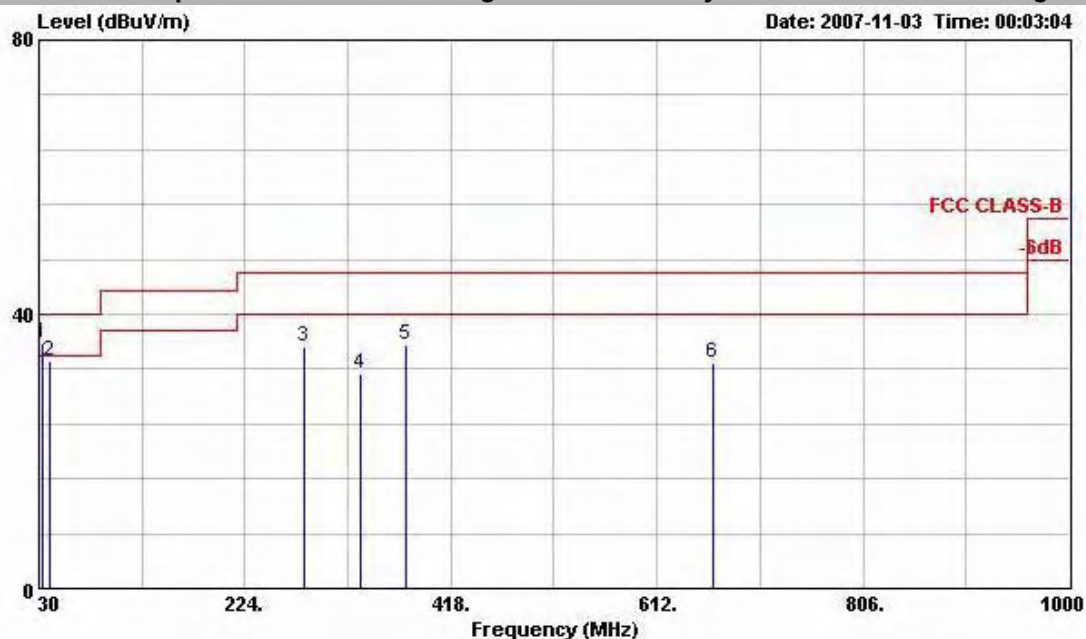
|     | Freq     | Level  | Over   | Limit  | ReadAntenna | Cable  | Preamp | Ant    | Table |             |
|-----|----------|--------|--------|--------|-------------|--------|--------|--------|-------|-------------|
|     | MHz      | dBuV/m | Limit  | Line   | Level       | Factor | Loss   | Factor | Pos   | Pos Remark  |
|     |          |        | dB     | dBuV/m | dBuV        | dB/m   | dB     | dB     | cm    | deg         |
| 1   | 2390.000 | 47.81  |        |        | 49.78       | 28.07  | 3.74   | 33.78  | 100   | 0 Peak      |
| 2   | 2390.000 | 34.50  |        |        | 36.47       | 28.07  | 3.74   | 33.78  | 100   | 97 Average  |
| 3 X | 2412.000 | 96.71  | 22.71  | 74.00  | 98.62       | 28.11  | 3.76   | 33.78  | 100   | 0 Peak      |
| 4 @ | 2412.000 | 91.21  | 37.21  | 54.00  | 93.12       | 28.11  | 3.76   | 33.78  | 100   | 97 Average  |
| 5   | 2492.000 | 46.28  | -27.72 | 74.00  | 47.94       | 28.30  | 3.84   | 33.80  | 100   | 0 Peak      |
| 6   | 2492.000 | 34.19  | -19.81 | 54.00  | 35.85       | 28.30  | 3.84   | 33.80  | 100   | 97 Average  |
| 7   | 2782.000 | 52.61  | -21.39 | 74.00  | 53.13       | 29.38  | 4.14   | 34.03  | 100   | 0 Peak      |
| 8   | 2782.000 | 46.42  | -7.58  | 54.00  | 46.94       | 29.38  | 4.14   | 34.03  | 100   | 179 Average |
| 9   | 8517.000 | 55.13  | -18.87 | 74.00  | 45.01       | 37.52  | 7.02   | 34.42  | 100   | 0 Peak      |
| 10  | 8517.000 | 44.31  | -9.69  | 54.00  | 34.19       | 37.52  | 7.02   | 34.42  | 100   | 198 Average |

Remark: #3 and #4 Fundamental Signal



- Test Mode : Mode 2
- Polarization : Horizontal

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



Site : 03CH04-HY

Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL

EUT : N/B

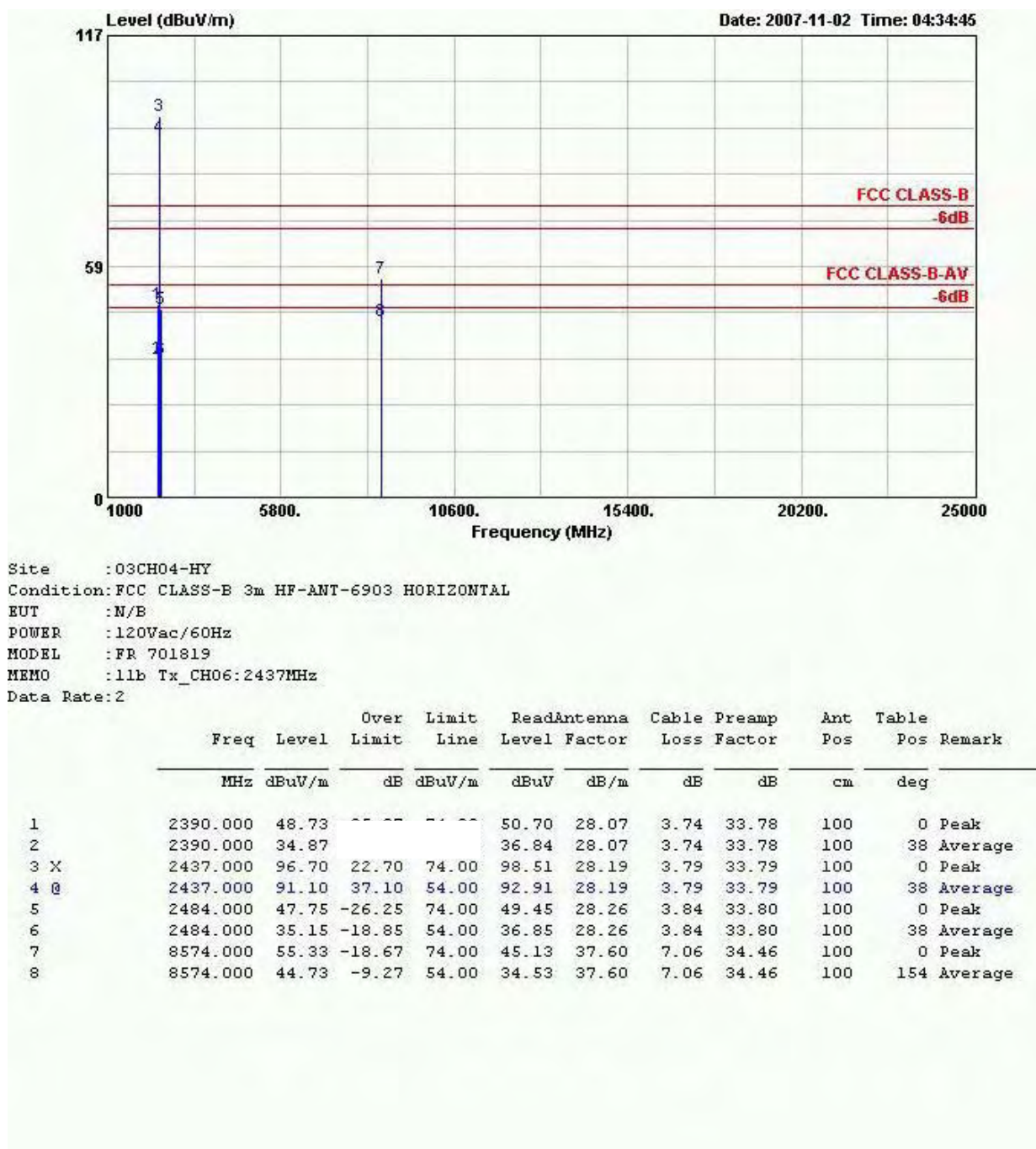
POWER : 120Vac/60Hz

MODEL : FR 701819

MEMO : 11b Tx\_CH06:2437MHz

Data Rate: 2

|     | Freq    | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table |          |
|-----|---------|--------|--------|--------|-------------|-------|--------|-------|-------|----------|
|     | MHz     | dBuV/m | Limit  | Line   | Level       | Loss  | Factor | Pos   | Pos   | Remark   |
|     | MHz     | dBuV/m | dB     | dBuV/m | dBuV        | dB/m  | dB     | dB    | cm    | deg      |
| 1 ! | 33.780  | 35.85  | -4.15  | 40.00  | 45.29       | 16.31 | 0.91   | 26.66 | 100   | 132 Peak |
| 2   | 39.450  | 33.22  | -6.78  | 40.00  | 47.08       | 11.82 | 0.96   | 26.64 | ---   | ---      |
| 3   | 278.940 | 35.19  | -10.81 | 46.00  | 46.41       | 12.42 | 2.16   | 25.80 | ---   | ---      |
| 4   | 332.200 | 31.22  | -14.78 | 46.00  | 41.38       | 13.45 | 2.35   | 25.95 | ---   | ---      |
| 5   | 374.900 | 35.42  | -10.58 | 46.00  | 44.25       | 14.92 | 2.49   | 26.24 | ---   | ---      |
| 6   | 665.400 | 32.79  | -13.21 | 46.00  | 36.31       | 20.06 | 3.45   | 27.02 | ---   | ---      |

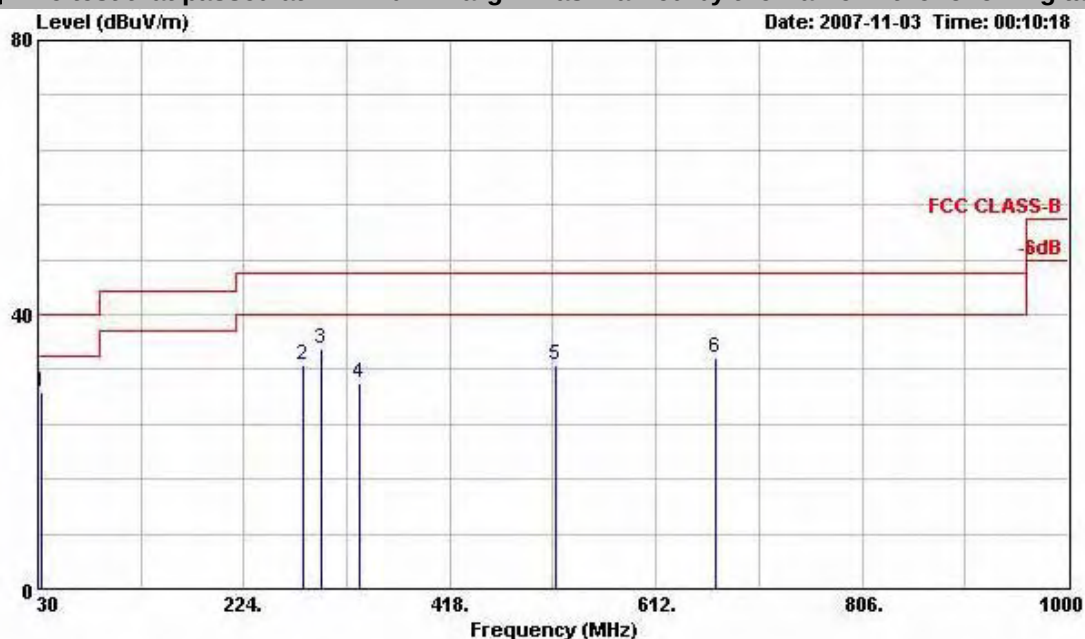


Remark: #3 and #4 Fundamental Signal



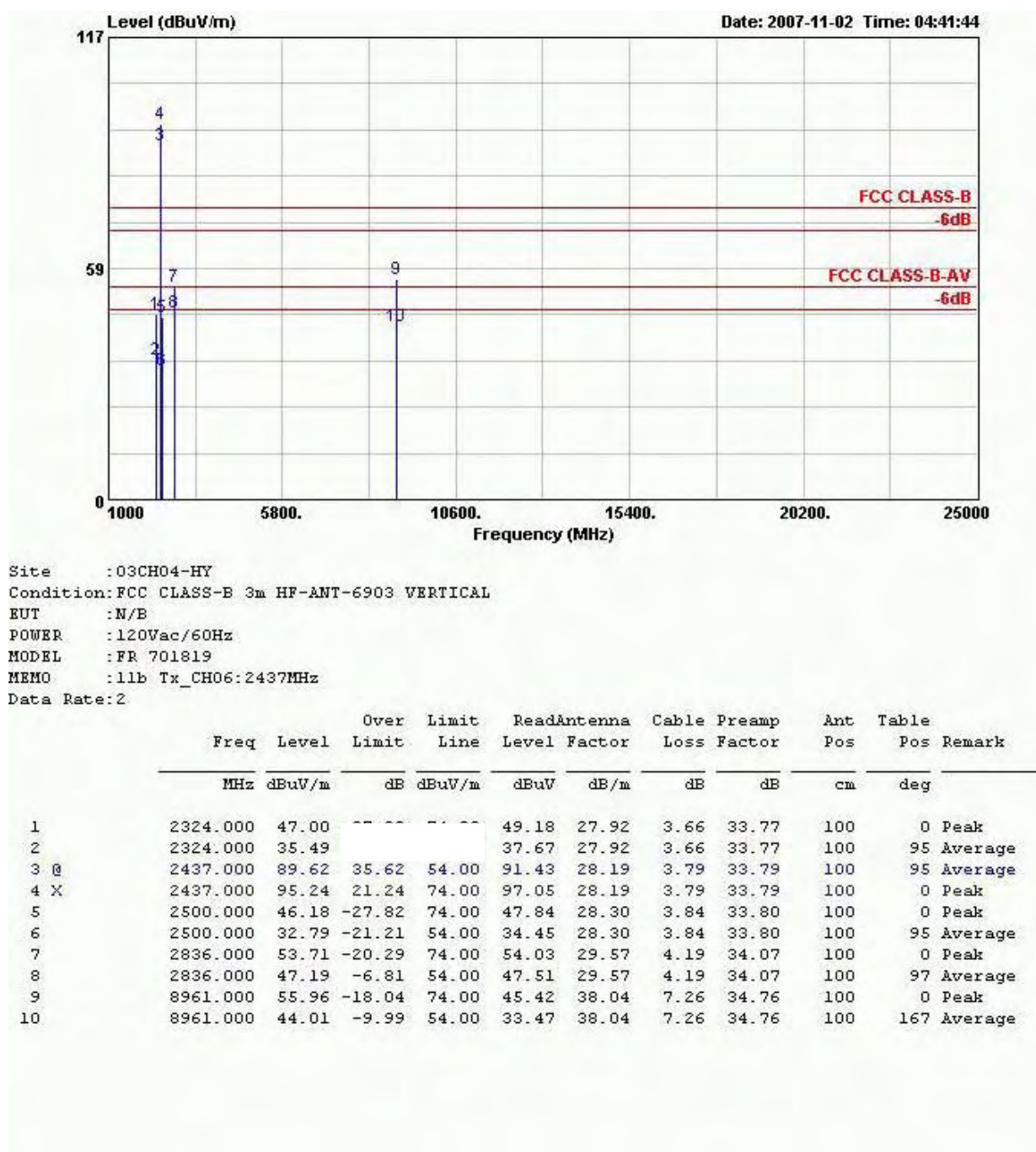
- Polarization : Vertical

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



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL  
 EUT : N/B  
 POWER : 120Vac/60Hz  
 MODEL : FR 701819  
 MEMO : 11b Tx\_CH06:2437MHz  
 Data Rate: 2

|   | Freq    | Level  | Over<br>Limit | Limit<br>Line | ReadAntenna<br>Level Factor | Cable<br>Loss | Preamp<br>Factor | Ant<br>Pos | Table<br>Pos | Remark |      |
|---|---------|--------|---------------|---------------|-----------------------------|---------------|------------------|------------|--------------|--------|------|
|   | MHz     | dBuV/m | dB            | dBuV/m        | dBuV                        | dB/m          | dB               | dB         | cm           | deg    |      |
| 1 | 32.970  | 28.74  | -11.26        | 40.00         | 38.18                       | 16.33         | 0.90             | 26.66      | ---          | ---    | Peak |
| 2 | 280.290 | 32.65  | -13.35        | 46.00         | 43.87                       | 12.41         | 2.17             | 25.80      | ---          | ---    | Peak |
| 3 | 296.220 | 35.08  | -10.92        | 46.00         | 46.26                       | 12.33         | 2.23             | 25.74      | 100          | 214    | Peak |
| 4 | 332.900 | 29.94  | -16.06        | 46.00         | 40.10                       | 13.45         | 2.35             | 25.95      | ---          | ---    | Peak |
| 5 | 517.700 | 32.53  | -13.47        | 46.00         | 39.29                       | 17.43         | 2.88             | 27.07      | ---          | ---    | Peak |
| 6 | 668.200 | 33.75  | -12.25        | 46.00         | 37.26                       | 20.06         | 3.45             | 27.02      | ---          | ---    | Peak |

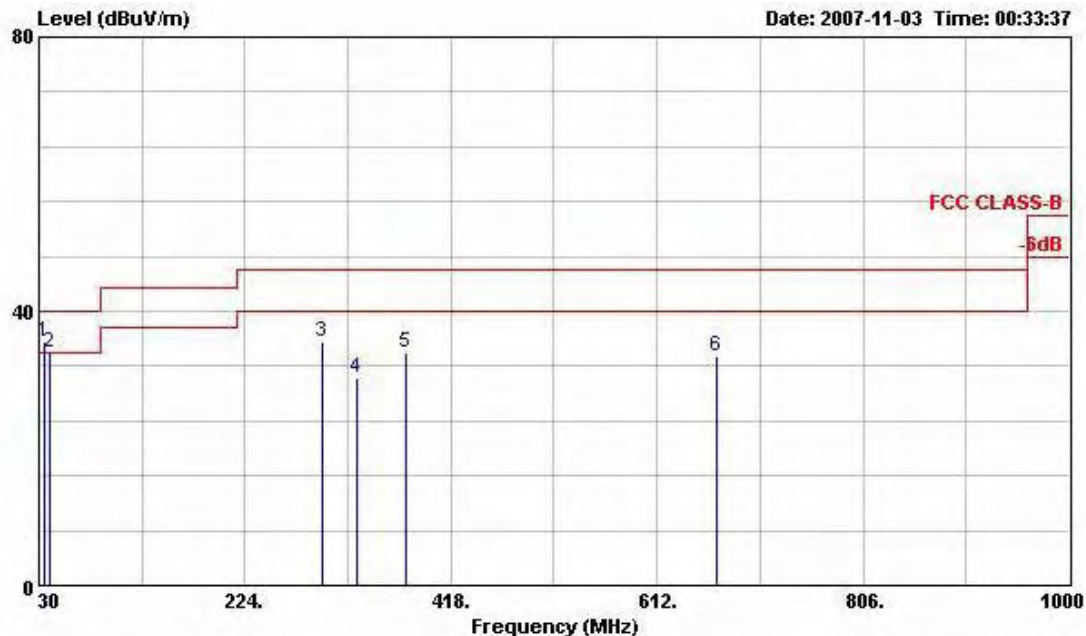


Remark: #3 and #4 Fundamental Signal



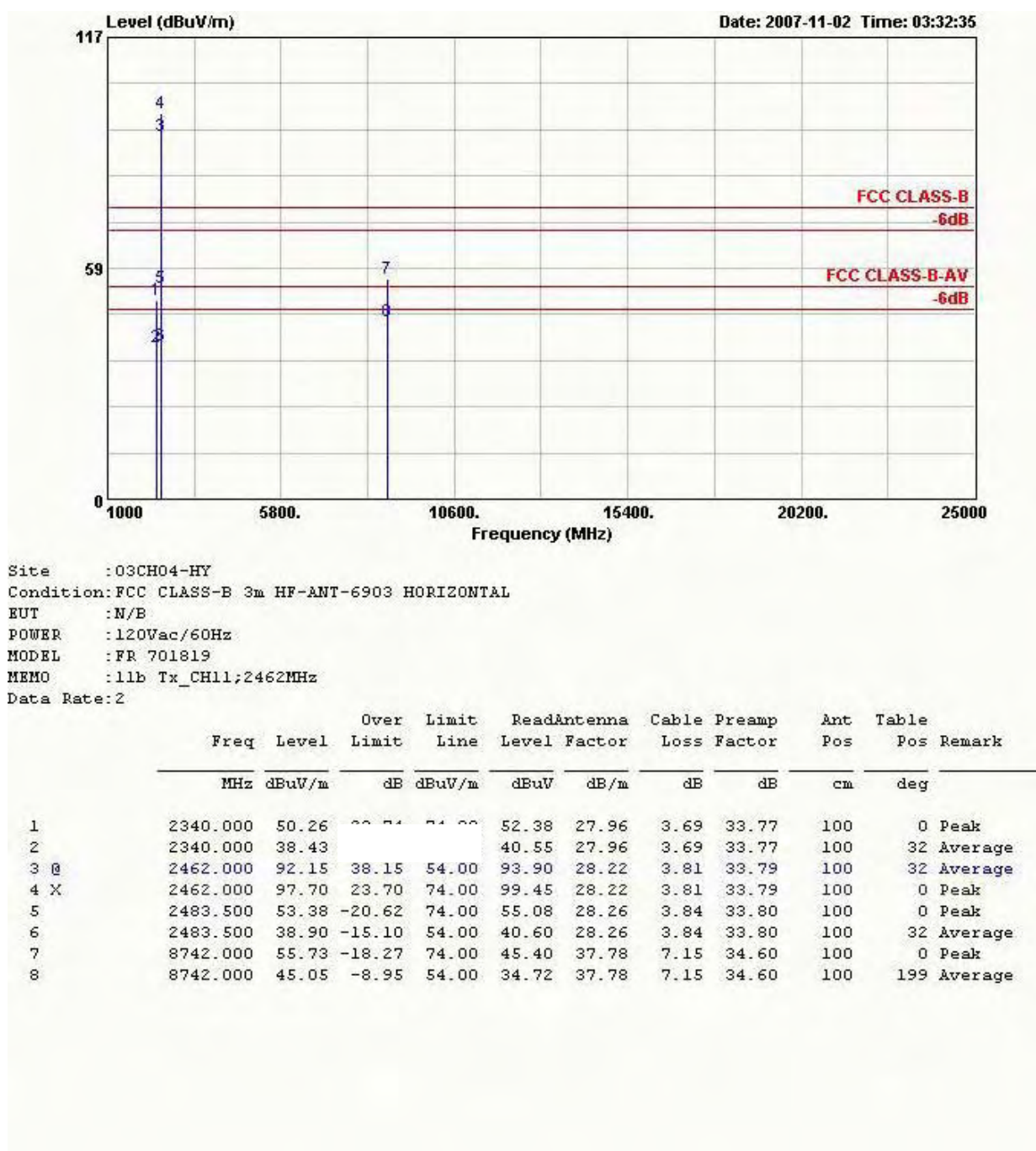
- Test Mode : Mode 3
- Polarization : Horizontal

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



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL  
 EUT : N/B  
 POWER : 120Vac/60Hz  
 MODEL : FR 701819  
 MEMO : 11b Tx\_CH11;2462MHz  
 Data Rate: 2

|     | Freq    | Level  | Over Limit | Limit Line | ReadAntenna Level | Antenna Factor | Cable Loss | Preamplifier | Ant Pos | Table Pos | Remark |
|-----|---------|--------|------------|------------|-------------------|----------------|------------|--------------|---------|-----------|--------|
|     | MHz     | dBuV/m | dB         | dBuV/m     | dBuV              | dB/m           | dB         | dB           | cm      | deg       |        |
| 1 ! | 34.590  | 35.57  | -4.43      | 40.00      | 45.03             | 16.29          | 0.91       | 26.66        | 100     | 167       | Peak   |
| 2   | 39.450  | 33.95  | -6.05      | 40.00      | 47.81             | 11.82          | 0.96       | 26.64        | ---     | ---       | Peak   |
| 3   | 296.220 | 35.42  | -10.58     | 46.00      | 46.60             | 12.33          | 2.23       | 25.74        | ---     | ---       | Peak   |
| 4   | 330.100 | 30.37  | -15.63     | 46.00      | 40.62             | 13.35          | 2.34       | 25.93        | ---     | ---       | Peak   |
| 5   | 374.900 | 34.01  | -11.99     | 46.00      | 42.84             | 14.92          | 2.49       | 26.24        | ---     | ---       | Peak   |
| 6   | 668.200 | 33.34  | -12.66     | 46.00      | 36.85             | 20.06          | 3.45       | 27.02        | ---     | ---       | Peak   |

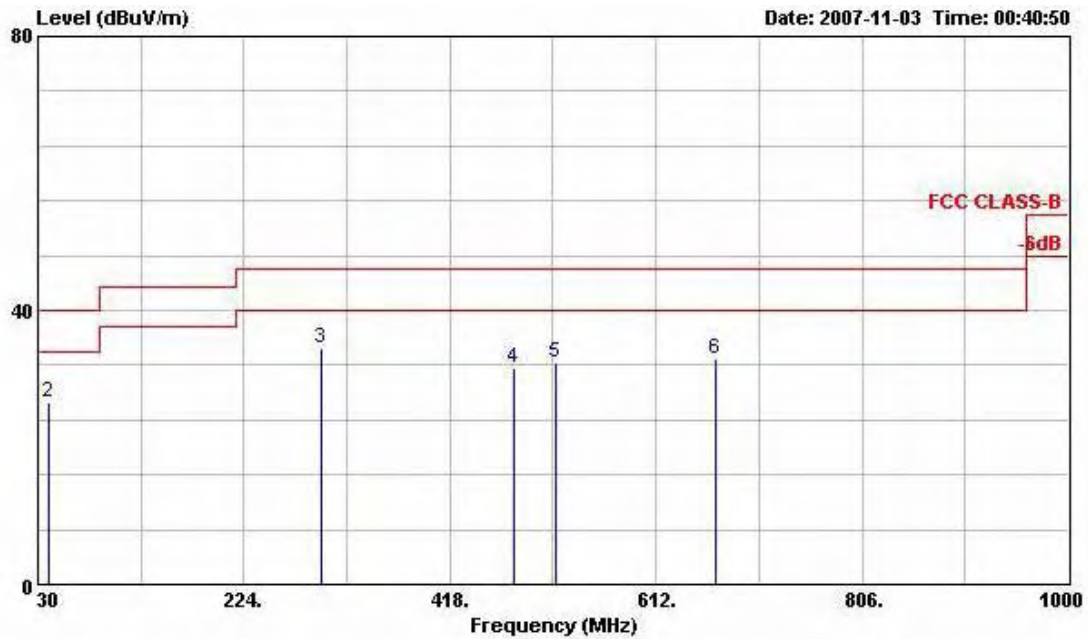


Remark: #3 and #4 Fundamental Signal



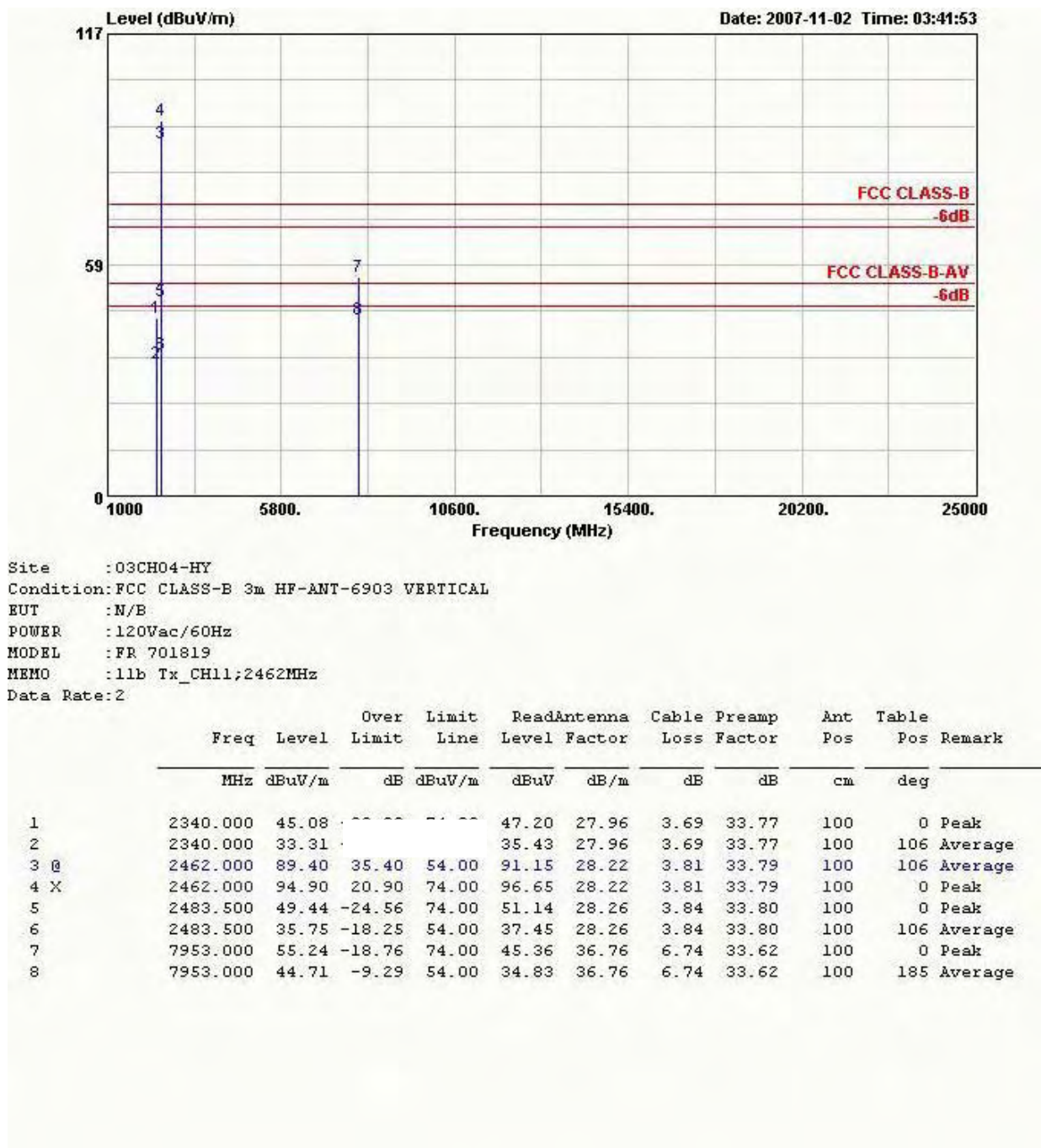
- Polarization : Vertical

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



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL  
 EUT : N/B  
 POWER : 120Vac/60Hz  
 MODEL : FR 701819  
 MEMO : 11b Tx\_CH11;2462MHz  
 Data Rate: 2

|   |         |        | Over   | Limit  | ReadAntenna | Cable  | Preamp | Ant    | Table |     |        |
|---|---------|--------|--------|--------|-------------|--------|--------|--------|-------|-----|--------|
|   | Freq    | Level  | Limit  | Line   | Level       | Factor | Loss   | Factor | Pos   | Pos | Remark |
|   | MHz     | dBuV/m | dB     | dBuV/m | dBuV        | dB/m   | dB     | dB     | cm    | deg |        |
| 1 | 30.540  | 27.44  | -12.56 | 40.00  | 36.88       | 16.36  | 0.87   | 26.67  | ---   | --- | Peak   |
| 2 | 40.260  | 26.58  | -13.42 | 40.00  | 40.78       | 11.46  | 0.97   | 26.64  | ---   | --- | Peak   |
| 3 | 297.300 | 34.48  | -11.52 | 46.00  | 45.66       | 12.32  | 2.23   | 25.74  | 100   | 198 | Peak   |
| 4 | 478.500 | 31.71  | -14.29 | 46.00  | 39.22       | 16.65  | 2.77   | 26.94  | ---   | --- | Peak   |
| 5 | 517.700 | 32.35  | -13.65 | 46.00  | 39.11       | 17.43  | 2.88   | 27.07  | ---   | --- | Peak   |
| 6 | 668.200 | 32.93  | -13.07 | 46.00  | 36.44       | 20.06  | 3.45   | 27.02  | ---   | --- | Peak   |

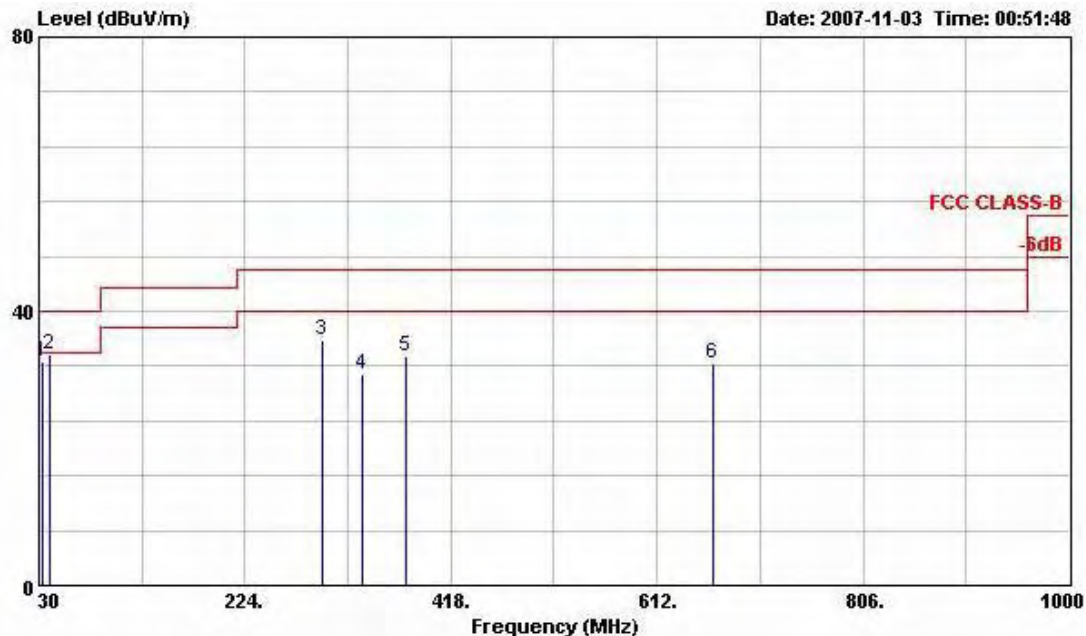


Remark: #3 and #4 Fundamental Signal



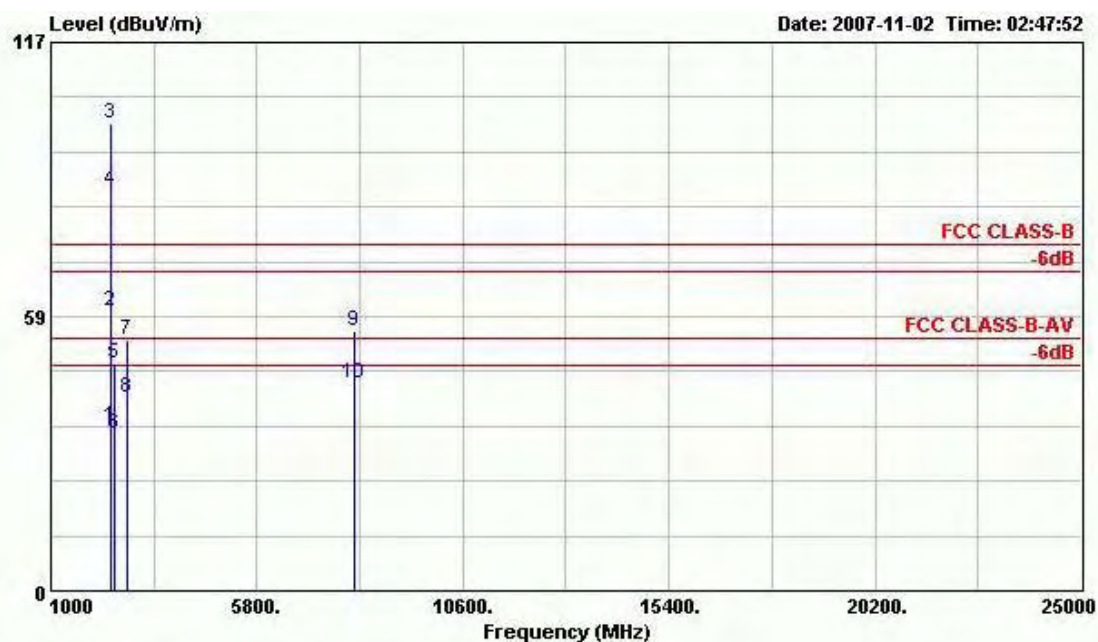
- Test Mode : Mode 4
- Polarization : Horizontal

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



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL  
 EUT : N/B  
 POWER : 120Vac/60Hz  
 MODEL : FR 701819  
 MEMO : 11g Tx\_CH01;2412MHz  
 Data Rate: 6

|   | Freq    | Level  | Over Limit | Limit Line | ReadAntenna Level | Antenna Factor | Cable Loss | Preamplifier | Ant Pos | Table Pos | Remark |
|---|---------|--------|------------|------------|-------------------|----------------|------------|--------------|---------|-----------|--------|
|   | MHz     | dBuV/m | dB         | dBuV/m     | dBuV              | dB/m           | dB         | dB           | cm      | deg       |        |
| 1 | 34.050  | 32.76  | -7.24      | 40.00      | 42.20             | 16.31          | 0.91       | 26.66        | ---     | ---       | Peak   |
| 2 | 39.450  | 33.73  | -6.27      | 40.00      | 47.59             | 11.82          | 0.96       | 26.64        | 100     | 154       | Peak   |
| 3 | 296.220 | 35.83  | -10.17     | 46.00      | 47.01             | 12.33          | 2.23       | 25.74        | ---     | ---       | Peak   |
| 4 | 335.000 | 30.75  | -15.25     | 46.00      | 40.85             | 13.51          | 2.35       | 25.97        | ---     | ---       | Peak   |
| 5 | 374.900 | 33.41  | -12.59     | 46.00      | 42.24             | 14.92          | 2.49       | 26.24        | ---     | ---       | Peak   |
| 6 | 665.400 | 32.40  | -13.60     | 46.00      | 35.92             | 20.06          | 3.45       | 27.02        | ---     | ---       | Peak   |



Site : 03CH04-HY  
Condition: FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL  
EUT : N/B  
POWER : 120Vac/60Hz  
MODEL : FR 701819  
MEMO : 11g Tx\_CH01;2412MHz  
Data Rate: 6

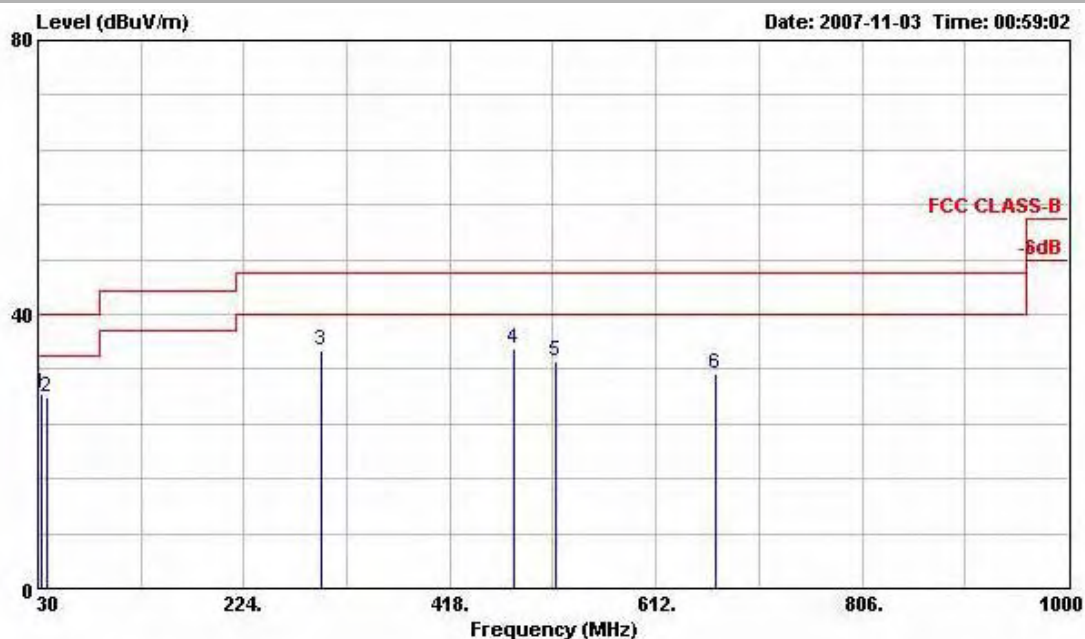
|     | Freq     | Level  | Over   | Limit  | ReadAntenna | Cable  | Preamp | Ant    | Table |             |
|-----|----------|--------|--------|--------|-------------|--------|--------|--------|-------|-------------|
|     | MHz      | dBuV/m | Limit  | Line   | Level       | Factor | Loss   | Factor | Pos   | Pos Remark  |
|     |          |        | dB     | dBuV/m | dBuV        | dB/m   | dB     | dB     | cm    | deg         |
| 1   | 2390.000 | 35.01  |        |        | 36.98       | 28.07  | 3.74   | 33.78  | 100   | 36 Average  |
| 2   | 2390.000 | 59.77  |        |        | 61.74       | 28.07  | 3.74   | 33.78  | 100   | 0 Peak      |
| 3 X | 2412.000 | 99.60  | 25.60  | 74.00  | 101.51      | 28.11  | 3.76   | 33.78  | 100   | 0 Peak      |
| 4 @ | 2412.000 | 85.27  | 31.27  | 54.00  | 87.18       | 28.11  | 3.76   | 33.78  | 100   | 36 Average  |
| 5   | 2484.000 | 48.43  | -25.57 | 74.00  | 50.13       | 28.26  | 3.84   | 33.80  | 100   | 0 Peak      |
| 6   | 2484.000 | 33.37  | -20.63 | 54.00  | 35.07       | 28.26  | 3.84   | 33.80  | 100   | 36 Average  |
| 7   | 2782.000 | 53.57  | -20.43 | 74.00  | 54.09       | 29.38  | 4.14   | 34.03  | 100   | 0 Peak      |
| 8   | 2782.000 | 41.30  | -12.70 | 54.00  | 41.82       | 29.38  | 4.14   | 34.03  | 125   | 190 Average |
| 9   | 8049.000 | 55.56  | -18.44 | 74.00  | 45.54       | 36.87  | 6.78   | 33.64  | 100   | 0 Peak      |
| 10  | 8049.000 | 44.35  | -9.65  | 54.00  | 34.33       | 36.87  | 6.78   | 33.64  | 100   | 137 Average |

Remark: #3 and #4 Fundamental Signal



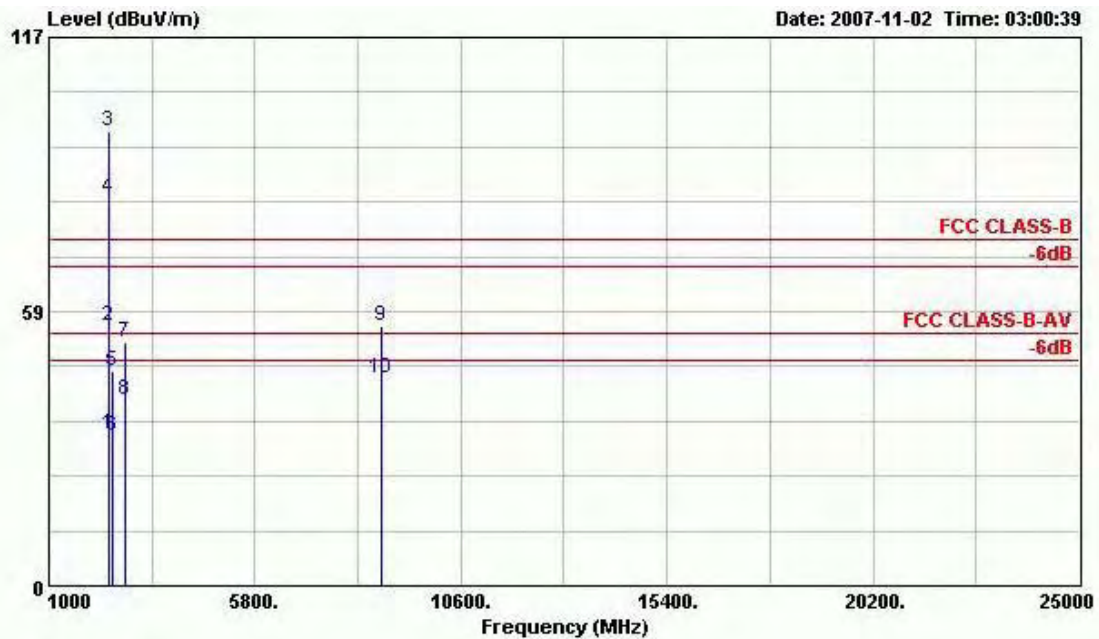
- Polarization : Vertical

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



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL  
 EUT : N/B  
 POWER : 120Vac/60Hz  
 MODEL : FR 701819  
 MEMO : 11g Tx\_CH01;2412MHz  
 Data Rate: 6

|   | Freq    | Level  | Over<br>Limit | Limit<br>Line | ReadAntenna<br>Level Factor | Cable<br>Loss | Preamp<br>Factor | Ant<br>Pos | Table<br>Pos | Remark |      |
|---|---------|--------|---------------|---------------|-----------------------------|---------------|------------------|------------|--------------|--------|------|
|   | MHz     | dBuV/m | dB            | dBuV/m        | dBuV                        | dB/m          | dB               | dB         | cm           | deg    |      |
| 1 | 33.780  | 28.50  | -11.50        | 40.00         | 37.94                       | 16.31         | 0.91             | 26.66      | ---          | ---    | Peak |
| 2 | 39.180  | 27.78  | -12.22        | 40.00         | 40.75                       | 12.71         | 0.96             | 26.64      | ---          | ---    | Peak |
| 3 | 296.490 | 34.73  | -11.27        | 46.00         | 45.92                       | 12.33         | 2.23             | 25.74      | ---          | ---    | Peak |
| 4 | 478.500 | 34.99  | -11.01        | 46.00         | 42.50                       | 16.65         | 2.77             | 26.94      | 100          | 277    | Peak |
| 5 | 517.700 | 33.25  | -12.75        | 46.00         | 40.01                       | 17.43         | 2.88             | 27.07      | ---          | ---    | Peak |
| 6 | 668.200 | 31.40  | -14.60        | 46.00         | 34.91                       | 20.06         | 3.45             | 27.02      | ---          | ---    | Peak |



Site : 03CH04-HY  
Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL  
EUT : N/B  
POWER : 120Vac/60Hz  
MODEL : FR 701819  
MEMO : 11g Tx\_CH01;2412MHz  
Data Rate: 6

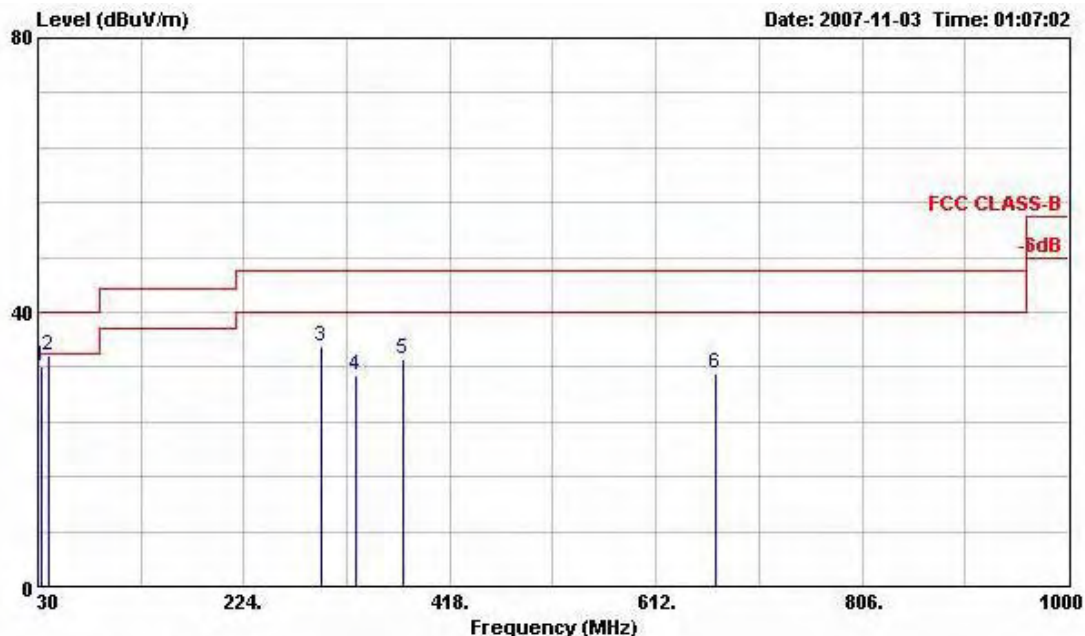
|     | Freq     | Level  | Over   | Limit  | ReadAntenna | Cable  | Preamp | Ant    | Table |             |
|-----|----------|--------|--------|--------|-------------|--------|--------|--------|-------|-------------|
|     | MHz      | dBuV/m | Limit  | Line   | Level       | Factor | Loss   | Factor | Pos   | Pos Remark  |
|     |          |        | dB     | dBuV/m | dBuV        | dB/m   | dB     | dB     | cm    | deg         |
| 1   | 2390.000 | 32.51  |        |        | 34.48       | 28.07  | 3.74   | 33.78  | 100   | 96 Average  |
| 2   | 2390.000 | 55.52  |        |        | 57.49       | 28.07  | 3.74   | 33.78  | 100   | 0 Peak      |
| 3 X | 2412.000 | 97.12  | 23.12  | 74.00  | 99.03       | 28.11  | 3.76   | 33.78  | 100   | 0 Peak      |
| 4 Q | 2412.000 | 82.66  | 28.66  | 54.00  | 84.57       | 28.11  | 3.76   | 33.78  | 100   | 96 Average  |
| 5   | 2492.000 | 45.94  | -28.06 | 74.00  | 47.60       | 28.30  | 3.84   | 33.80  | 100   | 0 Peak      |
| 6   | 2492.000 | 31.94  | -22.06 | 54.00  | 33.60       | 28.30  | 3.84   | 33.80  | 100   | 96 Average  |
| 7   | 2782.000 | 51.99  | -22.01 | 74.00  | 52.51       | 29.38  | 4.14   | 34.03  | 100   | 0 Peak      |
| 8   | 2782.000 | 39.65  | -14.35 | 54.00  | 40.17       | 29.38  | 4.14   | 34.03  | 124   | 193 Average |
| 9   | 8757.000 | 55.35  | -18.65 | 74.00  | 45.00       | 37.80  | 7.15   | 34.60  | 100   | 0 Peak      |
| 10  | 8757.000 | 44.17  | -9.83  | 54.00  | 33.82       | 37.80  | 7.15   | 34.60  | 100   | 112 Average |

Remark: #3 and #4 Fundamental Signal



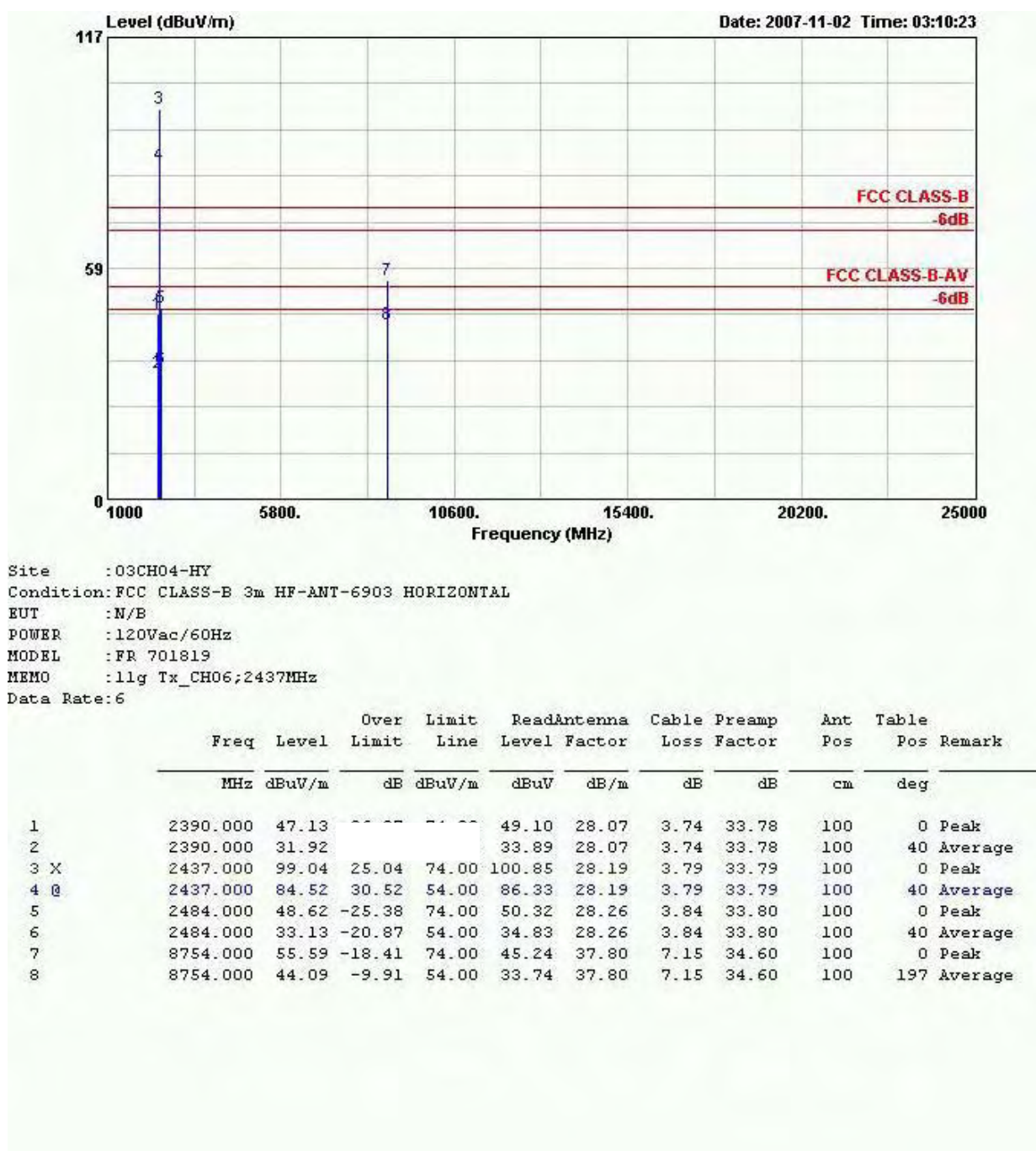
- Test Mode : Mode 5
- Polarization : Horizontal

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



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL  
 EUT : N/B  
 POWER : 120Vac/60Hz  
 MODEL : FR 701819  
 MEMO : 11g Tx\_CH06;2437MHz  
 Data Rate: 6

|   | Freq    | Level  | Over   | Limit  | ReadAntenna | Cable  | Preamp | Ant    | Table |            |
|---|---------|--------|--------|--------|-------------|--------|--------|--------|-------|------------|
|   | MHz     | dBuV/m | Limit  | Line   | Level       | Factor | Loss   | Factor | Pos   | Pos Remark |
|   |         |        | dB     | dBuV/m | dBuV        | dB/m   | dB     | dB     | cm    | deg        |
| 1 | 33.780  | 32.18  | -7.82  | 40.00  | 41.62       | 16.31  | 0.91   | 26.66  | ---   | ---        |
| 2 | 39.450  | 33.78  | -6.22  | 40.00  | 47.64       | 11.82  | 0.96   | 26.64  | 100   | 166 Peak   |
| 3 | 296.220 | 34.90  | -11.10 | 46.00  | 46.08       | 12.33  | 2.23   | 25.74  | ---   | ---        |
| 4 | 330.100 | 30.66  | -15.34 | 46.00  | 40.91       | 13.35  | 2.34   | 25.93  | ---   | ---        |
| 5 | 374.200 | 33.22  | -12.78 | 46.00  | 42.09       | 14.88  | 2.49   | 26.24  | ---   | ---        |
| 6 | 668.200 | 30.97  | -15.03 | 46.00  | 34.48       | 20.06  | 3.45   | 27.02  | ---   | ---        |

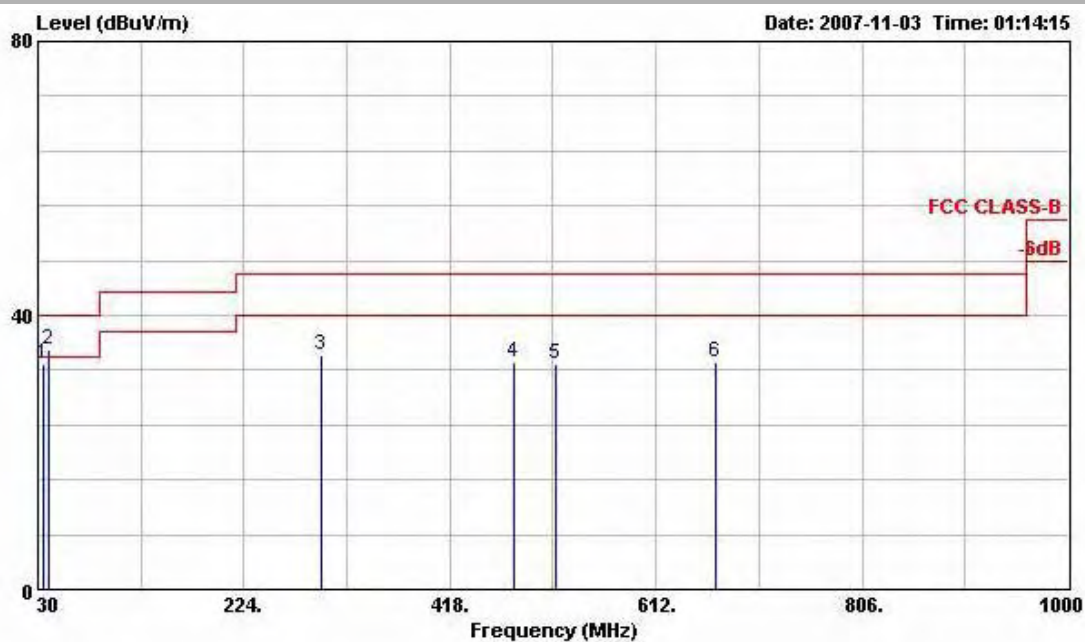


Remark: #3 and #4 Fundamental Signal



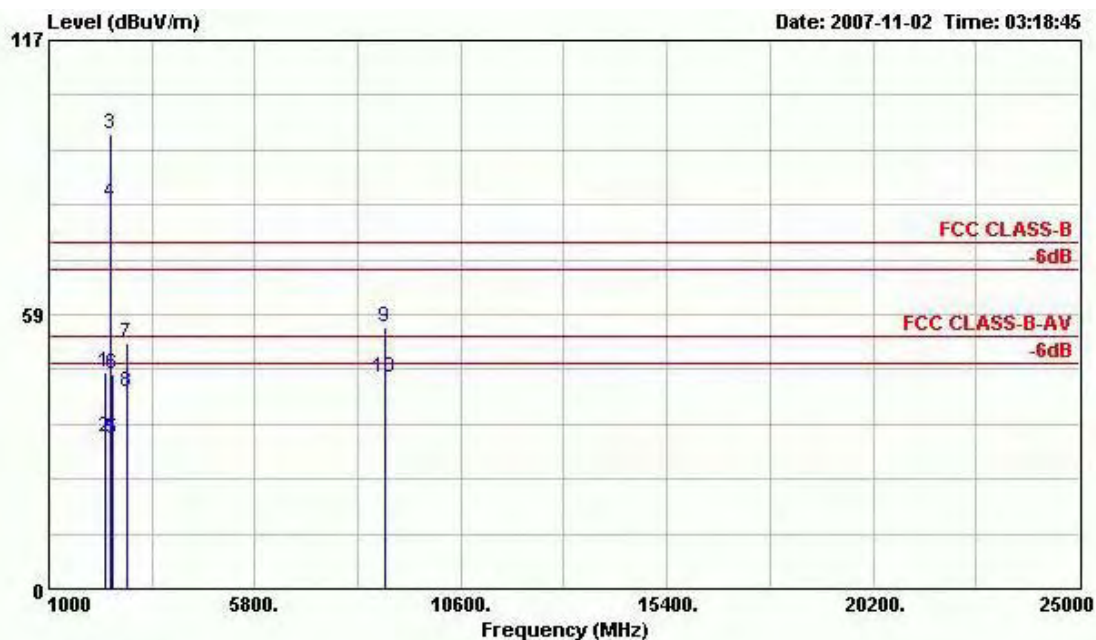
- Polarization : Vertical

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



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL  
 EUT : N/B  
 POWER : 120Vac/60Hz  
 MODEL : FR 701819  
 MEMO : 11g Tx\_CH06;2437MHz  
 Data Rate: 6

|   | Freq    | Level  | Over   | Limit  | ReadAntenna | Cable  | Preamp | Ant    | Table |            |
|---|---------|--------|--------|--------|-------------|--------|--------|--------|-------|------------|
|   | MHz     | dBuV/m | Limit  | Line   | Level       | Factor | Loss   | Factor | Pos   | Pos Remark |
|   |         |        | dB     | dBuV/m | dBuV        | dB/m   | dB     | dB     | cm    | deg        |
| 1 | 35.130  | 32.98  | -7.02  | 40.00  | 42.43       | 16.29  | 0.91   | 26.65  | ---   | ---        |
| 2 | 39.450  | 35.01  | -4.99  | 40.00  | 48.87       | 11.82  | 0.96   | 26.64  | 100   | 187        |
| 3 | 297.570 | 34.28  | -11.72 | 46.00  | 45.46       | 12.32  | 2.23   | 25.74  | ---   | ---        |
| 4 | 478.500 | 33.12  | -12.88 | 46.00  | 40.63       | 16.65  | 2.77   | 26.94  | ---   | ---        |
| 5 | 517.700 | 32.99  | -13.01 | 46.00  | 39.75       | 17.43  | 2.88   | 27.07  | ---   | ---        |
| 6 | 668.200 | 33.21  | -12.79 | 46.00  | 36.72       | 20.06  | 3.45   | 27.02  | ---   | ---        |



Site : 03CH04-HY  
Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL  
EUT : N/B  
POWER : 120Vac/60Hz  
MODEL : FR 701819  
MEMO : 11g Tx\_CH06;2437MHz  
Data Rate: 6

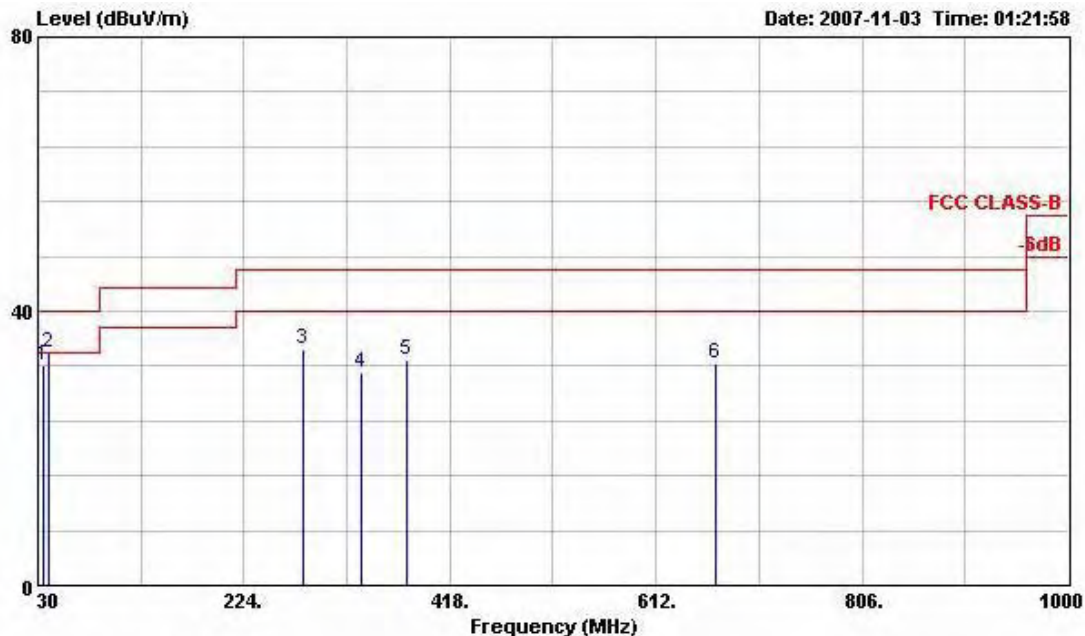
|     | Freq     | Level  | Over   | Limit  | ReadAntenna | Cable  | Preamp | Ant    | Table |             |
|-----|----------|--------|--------|--------|-------------|--------|--------|--------|-------|-------------|
|     | MHz      | dBuV/m | Limit  | Line   | Level       | Factor | Loss   | Factor | Pos   | Pos Remark  |
|     |          |        | dB     | dBuV/m | dBuV        | dB/m   | dB     | dB     | cm    | deg         |
| 1   | 2326.000 | 46.14  |        |        | 48.32       | 27.92  | 3.66   | 33.77  | 100   | 0 Peak      |
| 2   | 2326.000 | 32.20  |        |        | 34.38       | 27.92  | 3.66   | 33.77  | 100   | 99 Average  |
| 3 X | 2437.000 | 96.83  | 22.83  | 74.00  | 98.64       | 28.19  | 3.79   | 33.79  | 100   | 0 Peak      |
| 4 @ | 2437.000 | 82.42  | 28.42  | 54.00  | 84.23       | 28.19  | 3.79   | 33.79  | 100   | 99 Average  |
| 5   | 2486.000 | 31.93  | -22.07 | 54.00  | 33.63       | 28.26  | 3.84   | 33.80  | 100   | 99 Average  |
| 6   | 2486.000 | 45.91  | -28.09 | 74.00  | 47.61       | 28.26  | 3.84   | 33.80  | 100   | 0 Peak      |
| 7   | 2836.000 | 52.16  | -21.84 | 74.00  | 52.48       | 29.57  | 4.19   | 34.07  | 100   | 0 Peak      |
| 8   | 2836.000 | 42.03  | -11.97 | 54.00  | 42.35       | 29.57  | 4.19   | 34.07  | 100   | 96 Average  |
| 9   | 8841.000 | 55.68  | -18.32 | 74.00  | 45.24       | 37.90  | 7.20   | 34.66  | 100   | 0 Peak      |
| 10  | 8841.000 | 45.14  | -8.86  | 54.00  | 34.70       | 37.90  | 7.20   | 34.66  | 100   | 171 Average |

Remark: #3 and #4 Fundamental Signal



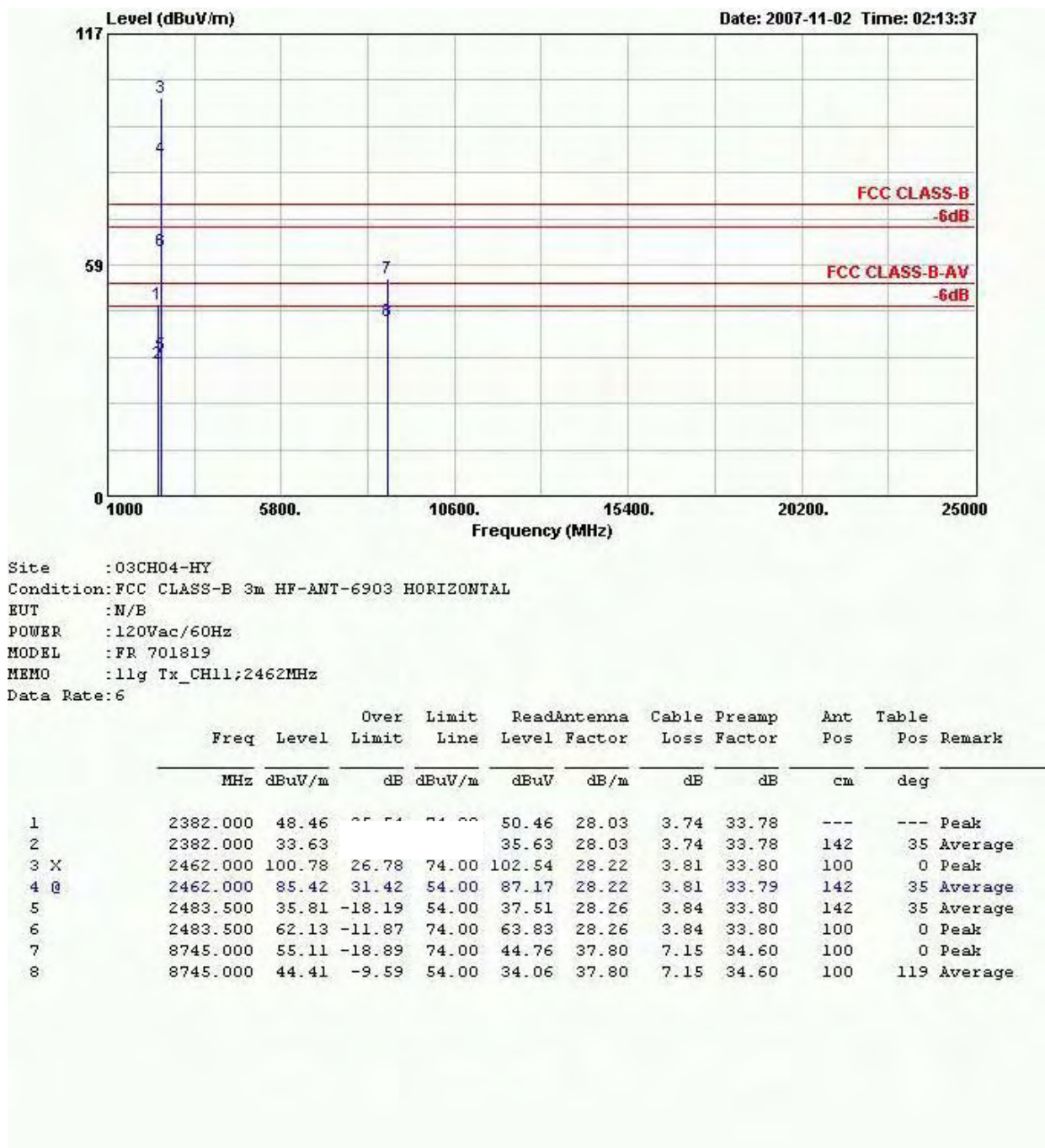
- Test Mode : Mode 6
- Polarization : Horizontal

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



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL  
 EUT : N/B  
 POWER : 120Vac/60Hz  
 MODEL : FR 701819  
 MEMO : 11g Tx\_CH11;2462MHz  
 Data Rate: 6

|   | Freq    | Level  | Over<br>Limit | Limit<br>Line | ReadAntenna<br>Level | Antenna<br>Factor | Cable<br>Loss | Preamp<br>Factor | Ant<br>Pos | Table<br>Pos | Remark |
|---|---------|--------|---------------|---------------|----------------------|-------------------|---------------|------------------|------------|--------------|--------|
|   | MHz     | dBuV/m | dB            | dBuV/m        | dBuV                 | dB/m              | dB            | dB               | cm         | deg          |        |
| 1 | 34.590  | 32.03  | -7.97         | 40.00         | 41.49                | 16.29             | 0.91          | 26.66            | ---        | ---          | Peak   |
| 2 | 39.450  | 34.05  | -5.95         | 40.00         | 47.91                | 11.82             | 0.96          | 26.64            | 100        | 175          | Peak   |
| 3 | 280.020 | 34.54  | -11.46        | 46.00         | 45.76                | 12.41             | 2.17          | 25.80            | ---        | ---          | Peak   |
| 4 | 335.000 | 31.12  | -14.88        | 46.00         | 41.22                | 13.51             | 2.35          | 25.97            | ---        | ---          | Peak   |
| 5 | 377.000 | 32.77  | -13.23        | 46.00         | 41.54                | 14.98             | 2.49          | 26.25            | ---        | ---          | Peak   |
| 6 | 668.200 | 32.39  | -13.61        | 46.00         | 35.90                | 20.06             | 3.45          | 27.02            | ---        | ---          | Peak   |

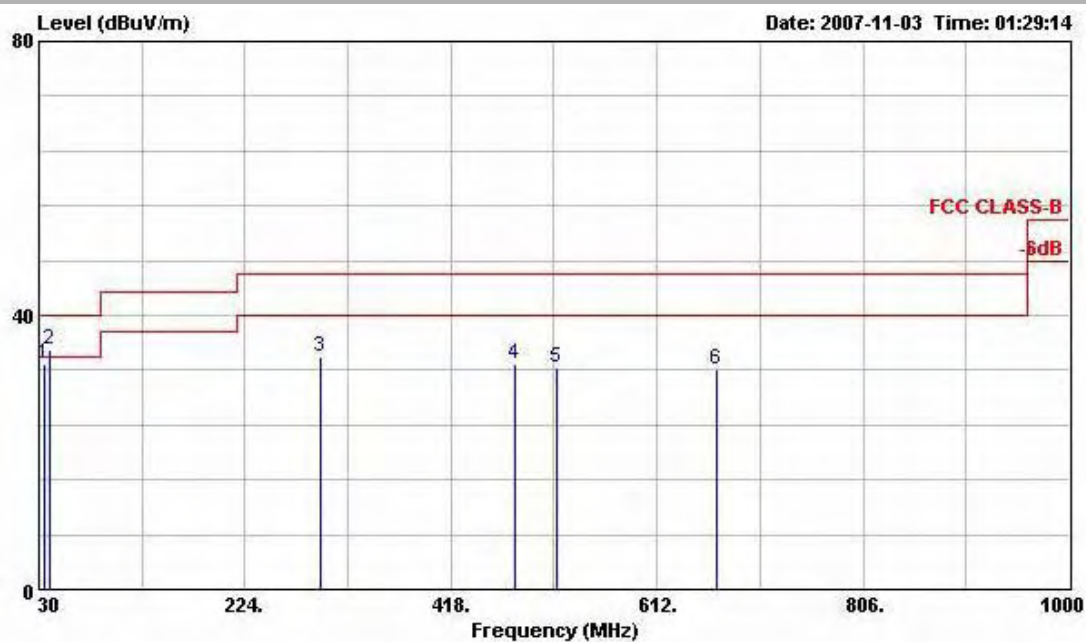


Remark: #3 and #4 Fundamental Signal



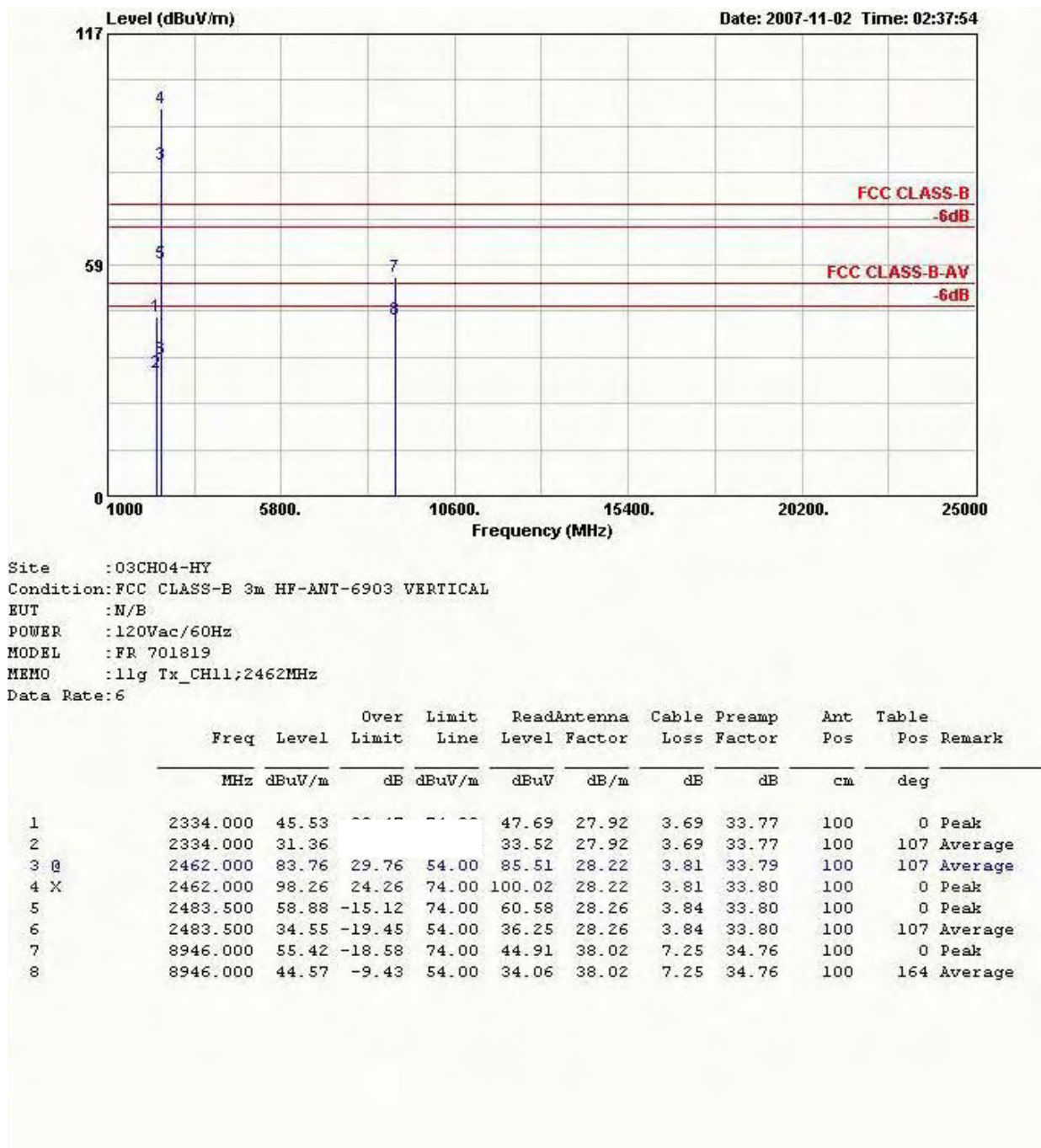
- Polarization : Vertical

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



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL  
 EUT : N/B  
 POWER : 120Vac/60Hz  
 MODEL : FR 701819  
 MEMO : 11g Tx\_CH11;2462MHz  
 Data Rate: 6

|   | Freq    | Level  | Over   | Limit  | ReadAntenna | Cable  | Preamp | Ant    | Table |            |
|---|---------|--------|--------|--------|-------------|--------|--------|--------|-------|------------|
|   | MHz     | dBuV/m | Limit  | Line   | Level       | Factor | Loss   | Factor | Pos   | Pos Remark |
|   |         |        | dB     | dBuV/m | dBuV        | dB/m   | dB     | dB     | cm    | deg        |
| 1 | 35.130  | 32.88  | -7.12  | 40.00  | 42.33       | 16.29  | 0.91   | 26.65  | ---   | ---        |
| 2 | 39.450  | 34.92  | -5.08  | 40.00  | 48.78       | 11.82  | 0.96   | 26.64  | 100   | 191 Peak   |
| 3 | 295.410 | 34.01  | -11.99 | 46.00  | 45.20       | 12.33  | 2.22   | 25.75  | ---   | ---        |
| 4 | 478.500 | 32.79  | -13.21 | 46.00  | 40.30       | 16.65  | 2.77   | 26.94  | ---   | ---        |
| 5 | 517.700 | 32.28  | -13.72 | 46.00  | 39.04       | 17.43  | 2.88   | 27.07  | ---   | ---        |
| 6 | 668.200 | 32.14  | -13.86 | 46.00  | 35.65       | 20.06  | 3.45   | 27.02  | ---   | ---        |

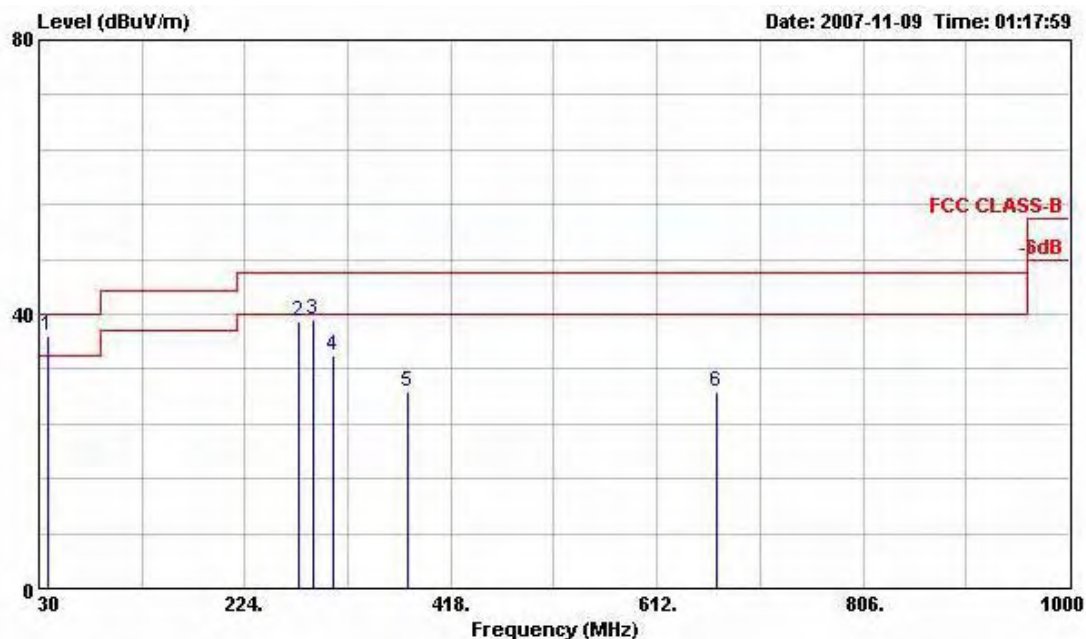


Remark: #3 and #4 Fundamental Signal



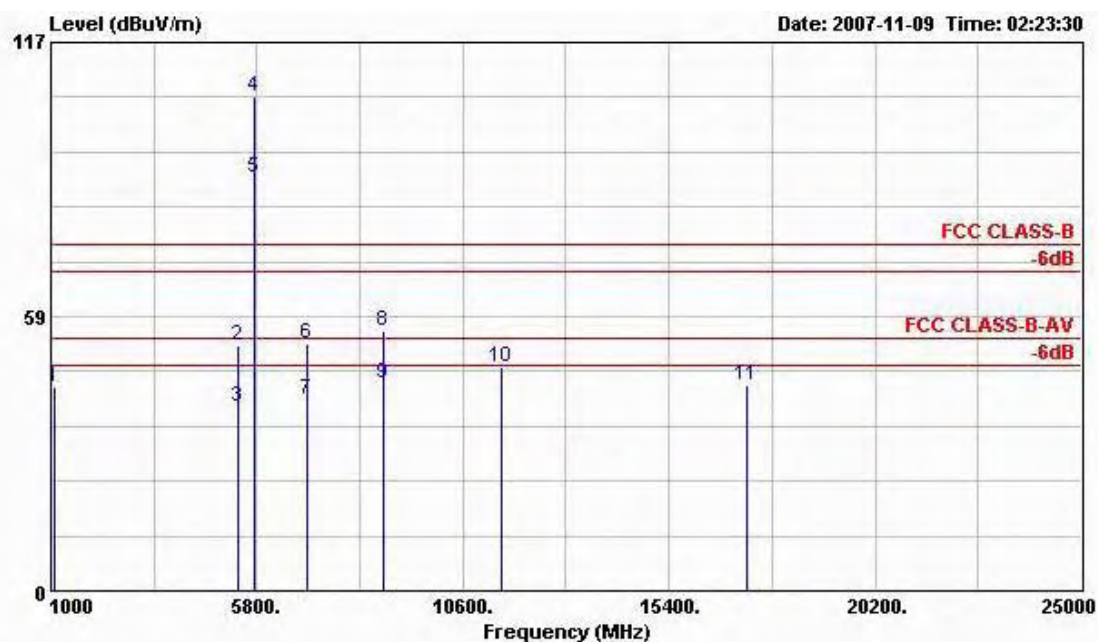
- Test Mode : Mode 7
- Polarization : Horizontal

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



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL  
 EUT : N/B  
 POWER : 120Vac/60Hz  
 MODEL : FR 701819  
 MEMO : 11a Tx\_Ch149;5745MHz  
 Data Rate: 9

|     | Freq    | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table |          |
|-----|---------|--------|--------|--------|-------------|-------|--------|-------|-------|----------|
|     | MHz     | dBuV/m | Limit  | Line   | Level       | Loss  | Factor | Pos   | Pos   | Remark   |
|     | MHz     | dBuV/m | dB     | dBuV/m | dBuV        | dB/m  | dB     | dB    | cm    | deg      |
| 1 ! | 38.370  | 36.78  | -3.22  | 40.00  | 51.39       | 12.71 | 0.95   | 28.27 | 100   | 174 Peak |
| 2   | 274.890 | 38.88  | -7.12  | 46.00  | 51.94       | 12.44 | 2.15   | 27.65 | ---   | ---      |
| 3   | 287.580 | 39.13  | -6.87  | 46.00  | 52.19       | 12.37 | 2.19   | 27.63 | ---   | ---      |
| 4   | 307.700 | 34.02  | -11.98 | 46.00  | 46.83       | 12.58 | 2.27   | 27.66 | ---   | ---      |
| 5   | 377.000 | 28.57  | -17.43 | 46.00  | 39.23       | 14.98 | 2.49   | 28.14 | ---   | ---      |
| 6   | 668.200 | 28.71  | -17.29 | 46.00  | 34.30       | 20.06 | 3.45   | 29.10 | ---   | ---      |



Site : 03CH04-HY  
Condition: FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL  
EUT : N/B  
POWER : 120Vac/60Hz  
MODEL : FR 701819  
MEMO : 11a Tx\_Ch149;5745MHz  
Data Rate: 9

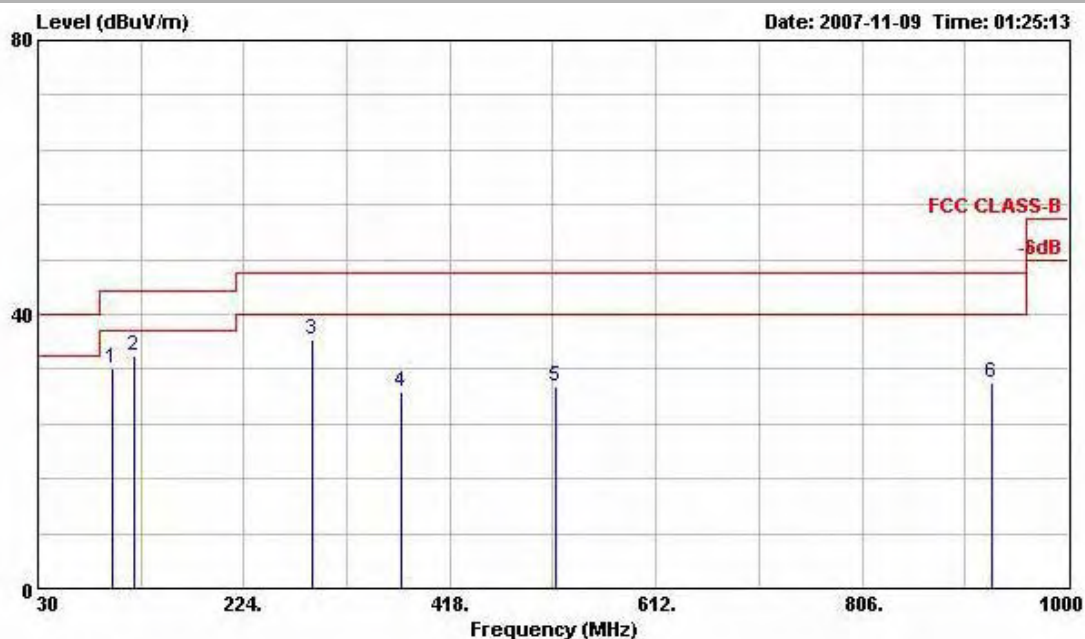
|     | Freq      | Level  | Over   | Limit  | ReadAntenna | Cable  | Preamp | Ant    | Table |             |
|-----|-----------|--------|--------|--------|-------------|--------|--------|--------|-------|-------------|
|     | MHz       | dBuV/m | Limit  | Line   | Level       | Factor | Loss   | Factor | Pos   | Pos Remark  |
|     |           |        | dB     | dBuV/m | dBuV        | dB/m   | dB     | dB     | cm    | deg         |
| 1   | 1100.000  | 43.41  | -30.59 | 74.00  | 51.07       | 24.27  | 2.34   | 34.26  | 100   | 0 Peak      |
| 2   | 5348.000  | 52.43  | -21.57 | 74.00  | 46.96       | 33.62  | 6.00   | 34.15  | 100   | 0 Peak      |
| 3   | 5348.000  | 39.31  |        |        | 33.84       | 33.62  | 6.00   | 34.15  | 100   | 340 Average |
| 4 X | 5745.000  | 105.28 | 31.28  | 74.00  | 99.36       | 33.94  | 6.02   | 34.05  | 100   | 0 Peak      |
| 5 @ | 5745.000  | 88.12  | 34.12  | 54.00  | 82.20       | 33.94  | 6.02   | 34.05  | 100   | 340 Average |
| 6   | 6974.000  | 52.73  | -21.27 | 74.00  | 43.77       | 35.13  | 6.35   | 32.52  | 100   | 0 Peak      |
| 7   | 6974.000  | 40.64  | -13.36 | 54.00  | 31.68       | 35.13  | 6.35   | 32.52  | 100   | 340 Average |
| 8   | 8742.000  | 55.33  | -18.67 | 74.00  | 45.00       | 37.78  | 7.15   | 34.60  | 100   | 0 Peak      |
| 9   | 8742.000  | 44.31  | -9.69  | 54.00  | 33.98       | 37.78  | 7.15   | 34.60  | 100   | 175 Average |
| 10  | 11492.000 | 47.64  | -26.36 | 74.00  | 85.82       | -11.73 | 7.84   | 34.30  | 100   | 0 Peak      |
| 11  | 17232.000 | 43.96  | -30.04 | 74.00  | 79.40       | -11.07 | 9.42   | 33.80  | 100   | 0 Peak      |

Remark: #4 and #5 Fundamental Signal



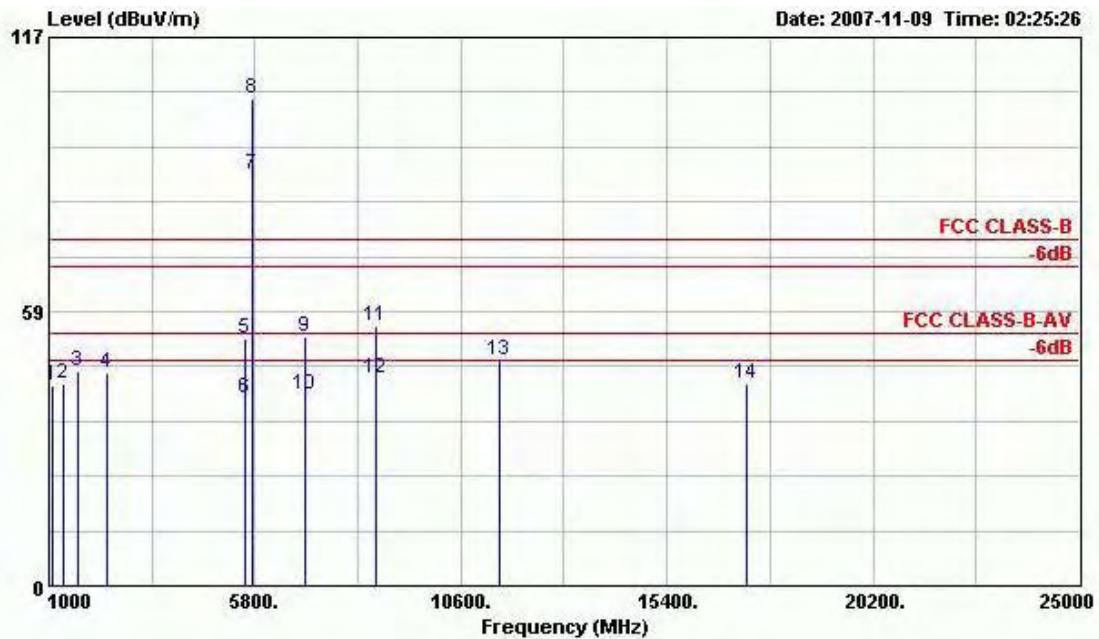
- Polarization : Vertical

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



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL  
 EUT : N/B  
 POWER : 120Vac/60Hz  
 MODEL : FR 701819  
 MEMO : 11a Tx\_Ch149;5745MHz  
 Data Rate: 9

|   | Freq    | Level  | Over<br>Limit | Limit<br>Line | ReadAntenna<br>Level Factor | Cable<br>Loss | Preamp<br>Factor | Ant<br>Pos | Table<br>Pos | Remark |      |
|---|---------|--------|---------------|---------------|-----------------------------|---------------|------------------|------------|--------------|--------|------|
|   | MHz     | dBuV/m | dB            | dBuV/m        | dBuV                        | dB/m          | dB               | dB         | cm           | deg    |      |
| 1 | 99.930  | 32.08  | -11.42        | 43.50         | 50.95                       | 7.95          | 1.38             | 28.20      | ---          | ---    | Peak |
| 2 | 120.180 | 33.86  | -9.64         | 43.50         | 49.77                       | 10.74         | 1.47             | 28.12      | 100          | 155    | Peak |
| 3 | 288.660 | 36.23  | -9.77         | 46.00         | 49.29                       | 12.37         | 2.20             | 27.62      | ---          | ---    | Peak |
| 4 | 372.100 | 28.62  | -17.38        | 46.00         | 39.43                       | 14.81         | 2.48             | 28.11      | ---          | ---    | Peak |
| 5 | 517.700 | 29.45  | -16.55        | 46.00         | 38.16                       | 17.43         | 2.88             | 29.02      | ---          | ---    | Peak |
| 6 | 928.600 | 29.99  | -16.01        | 46.00         | 30.54                       | 24.23         | 3.97             | 28.74      | ---          | ---    | Peak |



Site : 03CH04-HY  
Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL  
EUT : N/B  
POWER : 120Vac/60Hz  
MODEL : FR 701819  
MEMO : 11a Tx\_Ch149;5745MHz  
Data Rate: 9

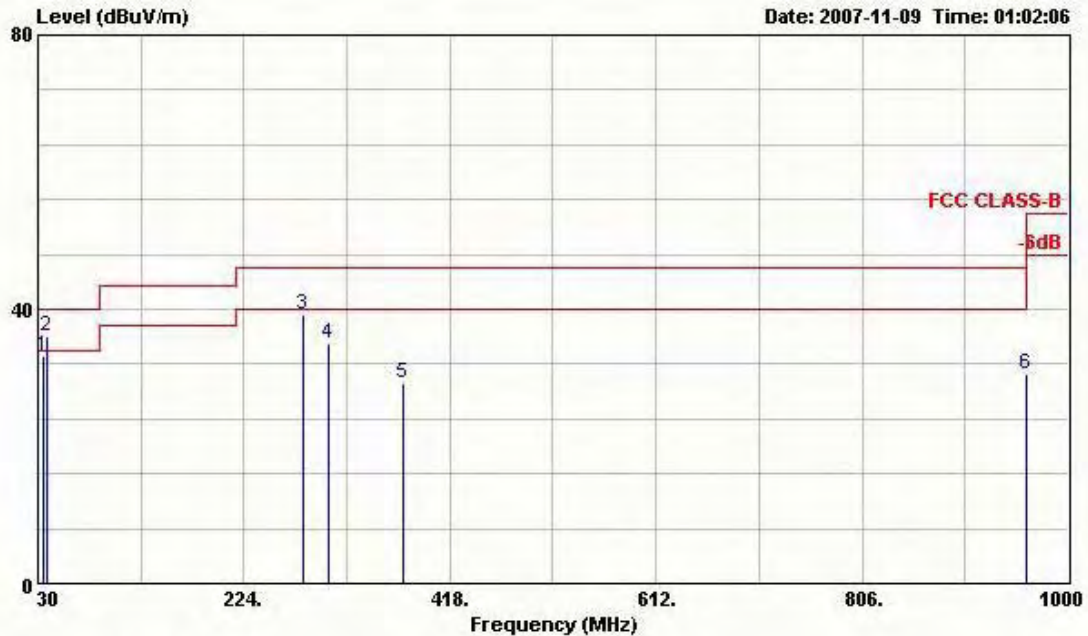
|     | Freq      | Level  | Over Limit | Limit Line | ReadAntenna Level | Cable Factor | Preamp Loss | Ant Pos | Table Pos | Remark      |
|-----|-----------|--------|------------|------------|-------------------|--------------|-------------|---------|-----------|-------------|
|     | MHz       | dBuV/m | dB         | dBuV/m     | dBuV              | dB/m         | dB          | cm      | deg       |             |
| 1   | 1084.000  | 42.85  | -31.15     | 74.00      | 50.59             | 24.22        | 2.34        | 34.30   | 100       | 0 Peak      |
| 2   | 1332.000  | 42.99  | -31.01     | 74.00      | 49.44             | 24.90        | 2.60        | 33.95   | 100       | 0 Peak      |
| 3   | 1662.000  | 45.76  | -28.24     | 74.00      | 50.56             | 25.93        | 2.97        | 33.70   | 100       | 0 Peak      |
| 4   | 2334.000  | 45.55  | -28.45     | 74.00      | 47.71             | 27.92        | 3.69        | 33.77   | 100       | 0 Peak      |
| 5   | 5582.000  | 52.68  | -21.32     | 74.00      | 46.89             | 33.85        | 6.01        | 34.08   | 100       | 0 Peak      |
| 6   | 5582.000  | 40.17  |            |            | 34.38             | 33.85        | 6.01        | 34.08   | 120       | 177 Average |
| 7 Q | 5745.000  | 87.80  | 33.80      | 54.00      | 81.88             | 33.94        | 6.02        | 34.05   | 120       | 177 Average |
| 8 X | 5745.000  | 103.85 | 29.85      | 74.00      | 97.93             | 33.94        | 6.02        | 34.05   | 100       | 0 Peak      |
| 9   | 6974.000  | 52.95  | -21.05     | 74.00      | 43.99             | 35.13        | 6.35        | 32.52   | 100       | 0 Peak      |
| 10  | 6974.000  | 40.63  | -13.37     | 54.00      | 31.67             | 35.13        | 6.35        | 32.52   | 120       | 177 Average |
| 11  | 8622.000  | 55.54  | -18.46     | 74.00      | 45.32             | 37.64        | 7.08        | 34.50   | 100       | 0 Peak      |
| 12  | 8622.000  | 44.36  | -9.64      | 54.00      | 34.14             | 37.64        | 7.08        | 34.50   | 100       | 214 Average |
| 13  | 11493.000 | 47.97  | -26.03     | 74.00      | 86.15             | -11.73       | 7.84        | 34.30   | 100       | 0 Peak      |
| 14  | 17238.000 | 42.93  | -31.07     | 74.00      | 78.40             | -11.11       | 9.44        | 33.80   | 100       | 0 Peak      |

Remark: #7 and #8 Fundamental Signal



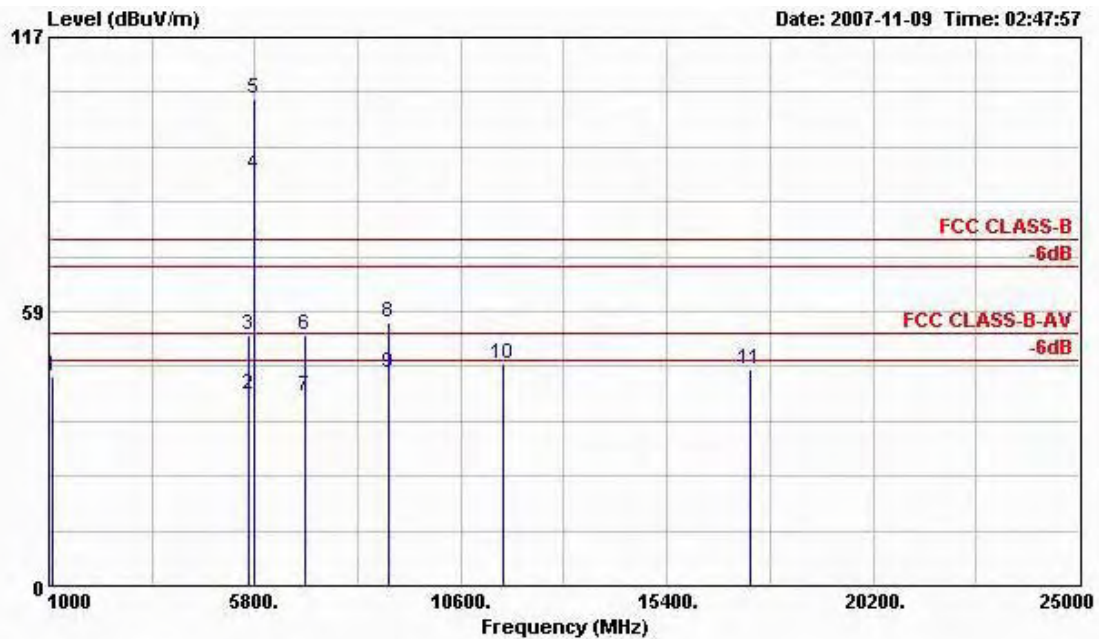
- Test Mode : Mode 8
- Polarization : Horizontal

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



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL  
 EUT : N/B  
 POWER : 120Vac/60Hz  
 MODEL : FR 701819  
 MOME : 11a Tx\_Ch157;5785MHz  
 Data Rate: 9

|   | Freq    | Level  | Over Limit | Limit Line | ReadAntenna Level | Antenna Factor | Cable Loss | Preamplifier | Ant Pos | Table Pos | Remark |
|---|---------|--------|------------|------------|-------------------|----------------|------------|--------------|---------|-----------|--------|
|   | MHz     | dBuV/m | dB         | dBuV/m     | dBuV              | dB/m           | dB         | dB           | cm      | deg       |        |
| 1 | 35.130  | 33.22  | -6.78      | 40.00      | 44.28             | 16.29          | 0.91       | 28.26        | ---     | ---       | Peak   |
| 2 | 38.370  | 35.97  | -4.03      | 40.00      | 50.58             | 12.71          | 0.95       | 28.27        | 100     | 146       | Peak   |
| 3 | 279.210 | 39.29  | -6.71      | 46.00      | 52.35             | 12.42          | 2.16       | 27.64        | ---     | ---       | Peak   |
| 4 | 304.200 | 34.89  | -11.11     | 46.00      | 47.79             | 12.48          | 2.25       | 27.63        | ---     | ---       | Peak   |
| 5 | 374.200 | 29.28  | -16.72     | 46.00      | 40.03             | 14.88          | 2.49       | 28.12        | ---     | ---       | Peak   |
| 6 | 960.100 | 30.47  | -23.53     | 54.00      | 30.13             | 25.04          | 3.99       | 28.68        | ---     | ---       | Peak   |



Site : 03CH04-HY  
Condition: FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL  
EUT : N/B  
POWER : 120Vac/60Hz  
MODEL : FR 701819  
MOME : 11a Tx\_Ch157;5785MHz  
Data Rate: 9

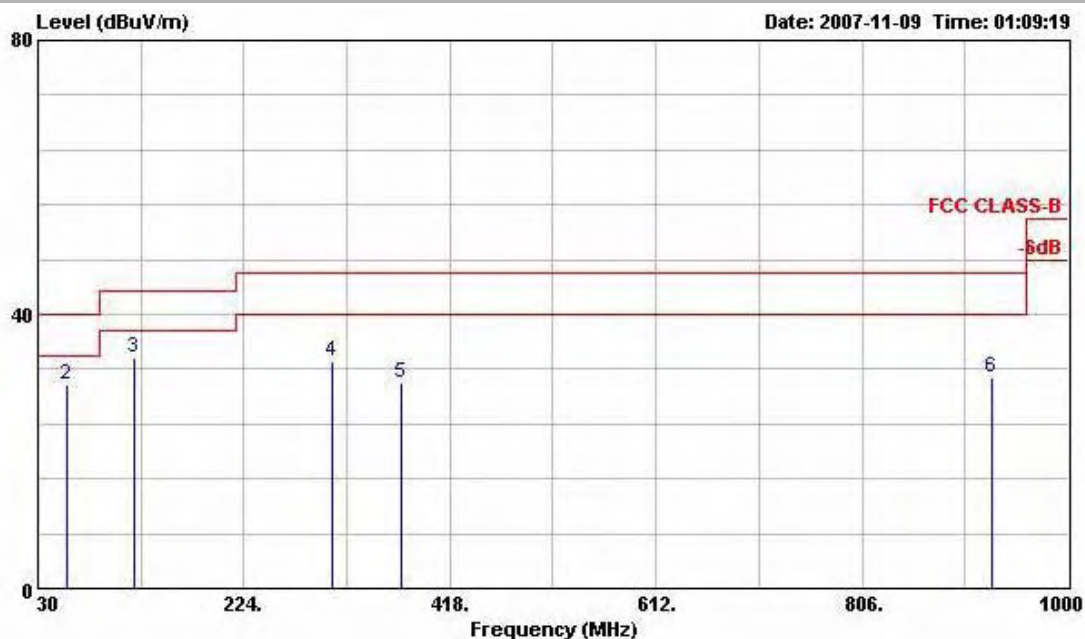
|     | Freq      | Level  | Over   | Limit  | ReadAntenna | Cable  | Preamp | Ant    | Table |             |
|-----|-----------|--------|--------|--------|-------------|--------|--------|--------|-------|-------------|
|     | MHz       | dBuV/m | Limit  | Line   | Level       | Factor | Loss   | Factor | Pos   | Pos Remark  |
|     |           |        | dB     | dBuV/m | dBuV        | dB/m   | dB     | dB     | cm    | deg         |
| 1   | 1094.000  | 44.60  | -29.40 | 74.00  | 52.26       | 24.27  | 2.34   | 34.26  | 100   | 0 Peak      |
| 2   | 5662.000  | 40.60  | -13.40 | 54.00  | 34.76       | 33.89  | 6.02   | 34.07  | 117   | 340 Average |
| 3   | 5662.000  | 53.48  |        |        | 47.64       | 33.89  | 6.02   | 34.07  | 100   | 0 Peak      |
| 4 @ | 5785.000  | 87.74  | 33.74  | 54.00  | 81.79       | 33.97  | 6.02   | 34.04  | 117   | 340 Average |
| 5 X | 5785.000  | 103.97 | 29.97  | 74.00  | 98.02       | 33.97  | 6.02   | 34.04  | 100   | 0 Peak      |
| 6   | 6950.000  | 53.57  | -20.43 | 74.00  | 44.67       | 35.10  | 6.34   | 32.54  | 100   | 0 Peak      |
| 7   | 6950.000  | 40.40  | -13.60 | 54.00  | 31.50       | 35.10  | 6.34   | 32.54  | 117   | 340 Average |
| 8   | 8934.000  | 56.20  | -17.80 | 74.00  | 45.67       | 38.02  | 7.25   | 34.74  | 100   | 0 Peak      |
| 9   | 8934.000  | 45.47  | -8.53  | 54.00  | 34.94       | 38.02  | 7.25   | 34.74  | 100   | 257 Average |
| 10  | 11574.000 | 47.39  | -26.61 | 74.00  | 85.36       | -11.49 | 7.85   | 34.33  | 100   | 0 Peak      |
| 11  | 17358.000 | 46.30  | -27.70 | 74.00  | 82.13       | -11.61 | 9.54   | 33.76  | 100   | 0 Peak      |

Remark: #4 and #5 Fundamental Signal



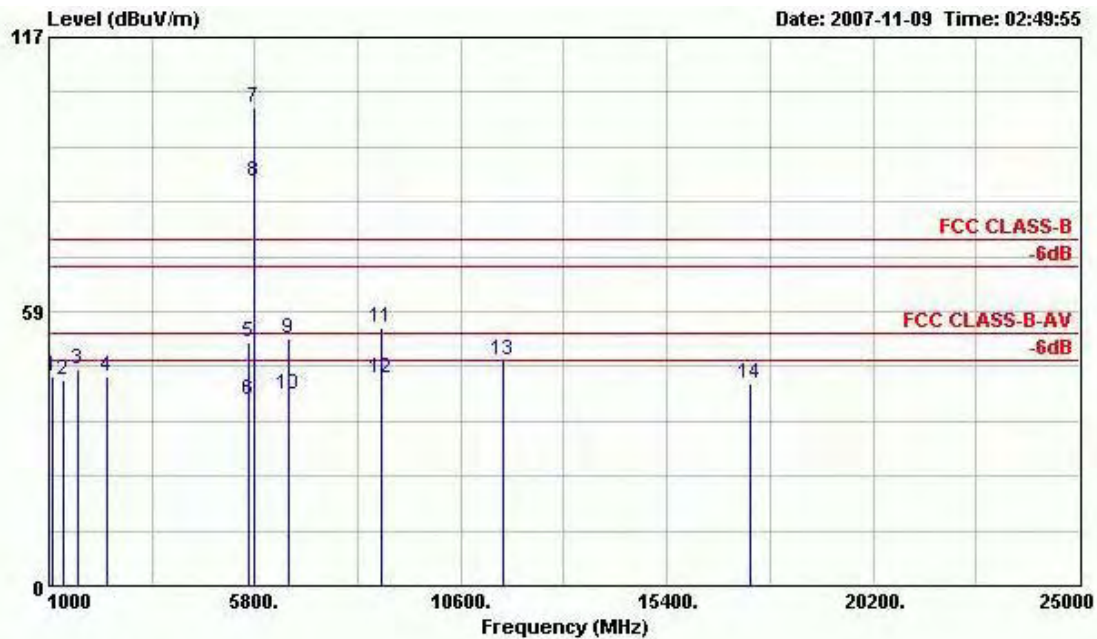
- Polarization : Vertical

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



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL  
 EUT : N/B  
 POWER : 120Vac/60Hz  
 MODEL : FR 701819  
 MOME : 11a Tx\_Ch157;5785MHz  
 Data Rate: 9

|   | Freq    | Level  | Over<br>Limit | Limit<br>Line | ReadAntenna<br>Level | Antenna<br>Factor | Cable<br>Loss | Preamp<br>Factor | Ant<br>Pos | Table<br>Pos | Remark |
|---|---------|--------|---------------|---------------|----------------------|-------------------|---------------|------------------|------------|--------------|--------|
|   | MHz     | dBuV/m | dB            | dBuV/m        | dBuV                 | dB/m              | dB            | dB               | cm         | deg          |        |
| 1 | 30.540  | 29.95  | -10.05        | 40.00         | 40.97                | 16.36             | 0.87          | 28.25            | ---        | ---          | Peak   |
| 2 | 57.540  | 29.79  | -10.21        | 40.00         | 52.50                | 4.49              | 1.09          | 28.28            | ---        | ---          | Peak   |
| 3 | 120.180 | 33.76  | -9.74         | 43.50         | 49.67                | 10.74             | 1.47          | 28.12            | 100        | 168          | Peak   |
| 4 | 307.700 | 33.27  | -12.73        | 46.00         | 46.08                | 12.58             | 2.27          | 27.66            | ---        | ---          | Peak   |
| 5 | 372.100 | 29.87  | -16.13        | 46.00         | 40.68                | 14.81             | 2.48          | 28.11            | ---        | ---          | Peak   |
| 6 | 928.600 | 30.77  | -15.23        | 46.00         | 31.32                | 24.23             | 3.97          | 28.74            | ---        | ---          | Peak   |



Site : 03CH04-HY  
Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL  
EUT : N/B  
POWER : 120Vac/60Hz  
MODEL : FR 701819  
MOME : 11a Tx\_Ch157;5785MHz  
Data Rate: 9

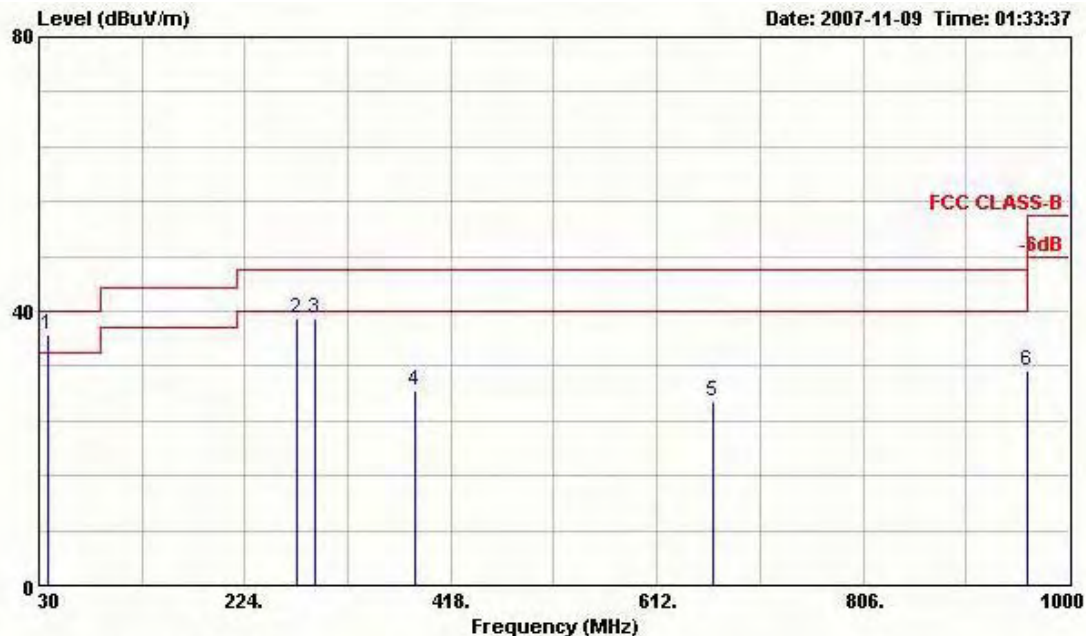
|     | Freq      | Level  | Over   | Limit  | ReadAntenna | Cable  | Preamp | Ant    | Table |             |
|-----|-----------|--------|--------|--------|-------------|--------|--------|--------|-------|-------------|
|     | MHz       | dBuV/m | Limit  | Line   | Level       | Factor | Loss   | Factor | Pos   | Pos Remark  |
|     |           |        | dB     | dBuV/m | dBuV        | dB/m   | dB     | dB     | cm    | deg         |
| 1   | 1084.000  | 44.70  | -29.30 | 74.00  | 52.44       | 24.22  | 2.34   | 34.30  | 100   | 0 Peak      |
| 2   | 1334.000  | 43.97  | -30.03 | 74.00  | 50.42       | 24.90  | 2.60   | 33.95  | 100   | 0 Peak      |
| 3   | 1662.000  | 46.02  | -27.98 | 74.00  | 50.82       | 25.93  | 2.97   | 33.70  | 100   | 0 Peak      |
| 4   | 2334.000  | 44.74  | -29.26 | 74.00  | 46.90       | 27.92  | 3.69   | 33.77  | 100   | 0 Peak      |
| 5   | 5662.000  | 51.95  | -22.05 | 74.00  | 46.11       | 33.89  | 6.02   | 34.07  | 100   | 0 Peak      |
| 6   | 5662.000  | 39.75  |        |        | 33.91       | 33.89  | 6.02   | 34.07  | 146   | 9 Average   |
| 7 X | 5785.000  | 102.10 | 28.10  | 74.00  | 96.15       | 33.97  | 6.02   | 34.04  | 100   | 0 Peak      |
| 8 @ | 5785.000  | 86.39  | 32.39  | 54.00  | 80.44       | 33.97  | 6.02   | 34.04  | 146   | 9 Average   |
| 9   | 6588.000  | 52.90  | -21.10 | 74.00  | 45.14       | 34.37  | 6.23   | 32.84  | 100   | 0 Peak      |
| 10  | 6588.000  | 40.92  | -13.08 | 54.00  | 33.16       | 34.37  | 6.23   | 32.84  | 146   | 9 Average   |
| 11  | 8742.000  | 54.99  | -19.01 | 74.00  | 44.66       | 37.78  | 7.15   | 34.60  | 100   | 0 Peak      |
| 12  | 8742.000  | 44.21  | -9.79  | 54.00  | 33.88       | 37.78  | 7.15   | 34.60  | 100   | 138 Average |
| 13  | 11568.000 | 47.96  | -26.04 | 74.00  | 85.92       | -11.49 | 7.85   | 34.32  | 100   | 0 Peak      |
| 14  | 17358.000 | 42.92  | -31.08 | 74.00  | 78.75       | -11.61 | 9.54   | 33.76  | 100   | 0 Peak      |

Remark: #7 and #8 Fundamental Signal



- Test Mode : Mode 9
- Polarization : Horizontal

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



Site : 03CH04-HY

Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL

EUT : N/B

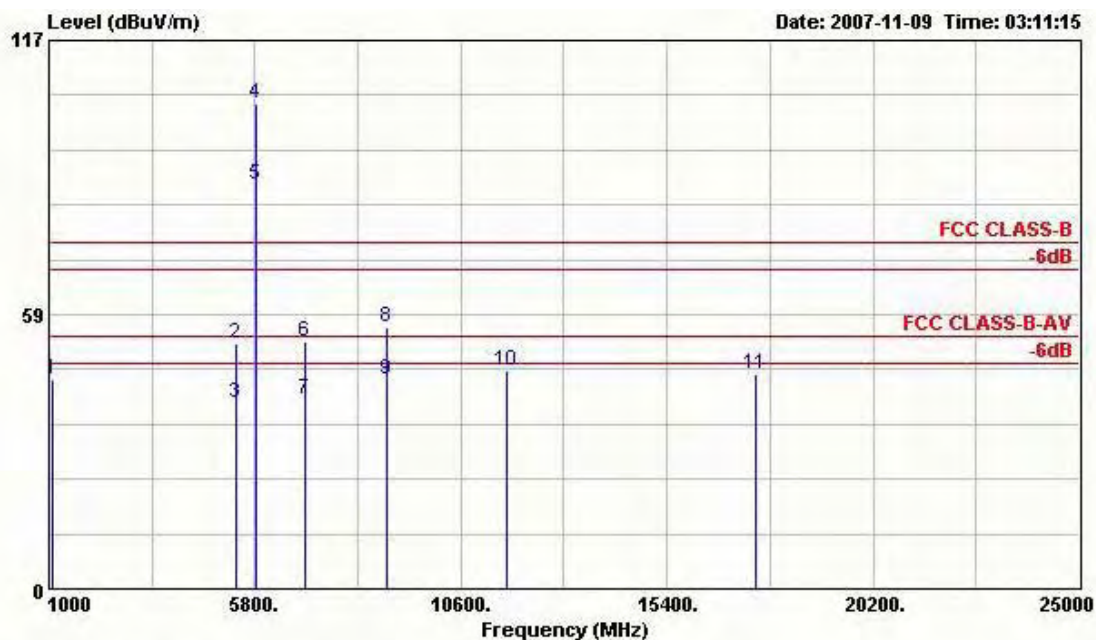
POWER : 120Vac/60Hz

MODEL : FR 701819

MOME : 11a Tx\_Ch165;5825MHz

Data Rate: 9

|     | Freq    | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table |          |
|-----|---------|--------|--------|--------|-------------|-------|--------|-------|-------|----------|
|     | MHz     | dBuV/m | Limit  | Line   | Level       | Loss  | Factor | Pos   | Pos   | Remark   |
|     | MHz     | dBuV/m | dB     | dBuV/m | dBuV        | dB/m  | dB     | dB    | cm    | deg      |
| 1 ! | 38.370  | 36.67  | -3.33  | 40.00  | 51.28       | 12.71 | 0.95   | 28.27 | 100   | 187 Peak |
| 2   | 273.540 | 38.99  | -7.01  | 46.00  | 52.06       | 12.45 | 2.14   | 27.65 | ---   | ---      |
| 3   | 290.010 | 39.01  | -6.99  | 46.00  | 52.06       | 12.36 | 2.21   | 27.62 | ---   | ---      |
| 4   | 383.300 | 28.30  | -17.70 | 46.00  | 38.78       | 15.18 | 2.52   | 28.18 | ---   | ---      |
| 5   | 665.400 | 26.74  | -19.26 | 46.00  | 32.34       | 20.06 | 3.45   | 29.10 | ---   | ---      |
| 6   | 960.100 | 31.31  | -22.69 | 54.00  | 30.97       | 25.04 | 3.99   | 28.68 | ---   | ---      |



Site : 03CH04-HY  
Condition: FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL  
EUT : N/B  
POWER : 120Vac/60Hz  
MODEL : FR 701819  
MOM : 11a Tx\_Ch165;5825MHz  
Data Rate: 9

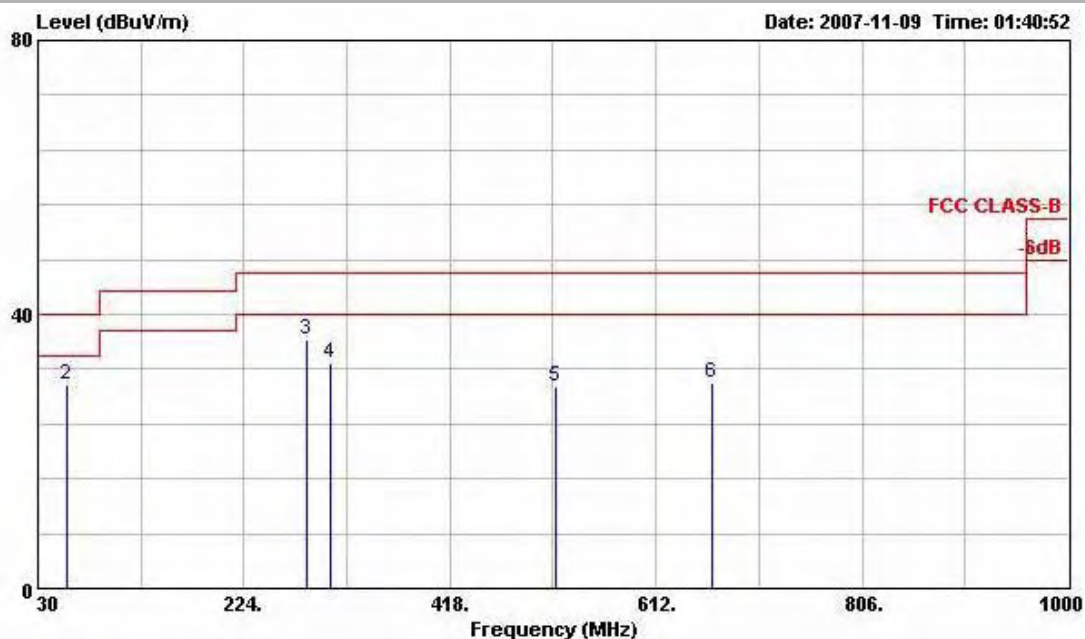
|     | Freq      | Level  | Over   | Limit  | ReadAntenna | Cable  | Preamp | Ant    | Table |             |
|-----|-----------|--------|--------|--------|-------------|--------|--------|--------|-------|-------------|
|     | MHz       | dBuV/m | Limit  | Line   | Level       | Factor | Loss   | Factor | Pos   | Pos Remark  |
|     |           |        | dB     | dBuV/m | dBuV        | dB/m   | dB     | dB     | cm    | deg         |
| 1   | 1100.000  | 44.66  | -29.34 | 74.00  | 52.32       | 24.27  | 2.34   | 34.26  | 100   | 0 Peak      |
| 2   | 5342.000  | 52.20  | -21.80 | 74.00  | 46.76       | 33.60  | 6.00   | 34.16  | 100   | 0 Peak      |
| 3   | 5342.000  | 39.52  |        |        | 34.08       | 33.60  | 6.00   | 34.16  | 100   | 9 Average   |
| 4 X | 5825.000  | 103.65 | 29.65  | 74.00  | 97.67       | 34.00  | 6.02   | 34.04  | 100   | 0 Peak      |
| 5 @ | 5825.000  | 86.34  | 32.34  | 54.00  | 80.36       | 34.00  | 6.02   | 34.04  | 100   | 9 Average   |
| 6   | 6958.000  | 52.68  | -21.32 | 74.00  | 43.76       | 35.10  | 6.34   | 32.52  | 100   | 0 Peak      |
| 7   | 6958.000  | 40.50  | -13.50 | 54.00  | 31.58       | 35.10  | 6.34   | 32.52  | 100   | 9 Average   |
| 8   | 8876.000  | 55.62  | -18.38 | 74.00  | 45.17       | 37.94  | 7.21   | 34.70  | 100   | 0 Peak      |
| 9   | 8876.000  | 44.54  | -9.46  | 54.00  | 34.09       | 37.94  | 7.21   | 34.70  | 100   | 114 Average |
| 10  | 11646.000 | 46.59  | -27.41 | 74.00  | 84.23       | -11.14 | 7.86   | 34.35  | 100   | 0 Peak      |
| 11  | 17478.000 | 45.96  | -28.04 | 74.00  | 82.14       | -12.12 | 9.64   | 33.71  | 100   | 0 Peak      |

Remark: #4 and #5 Fundamental Signal



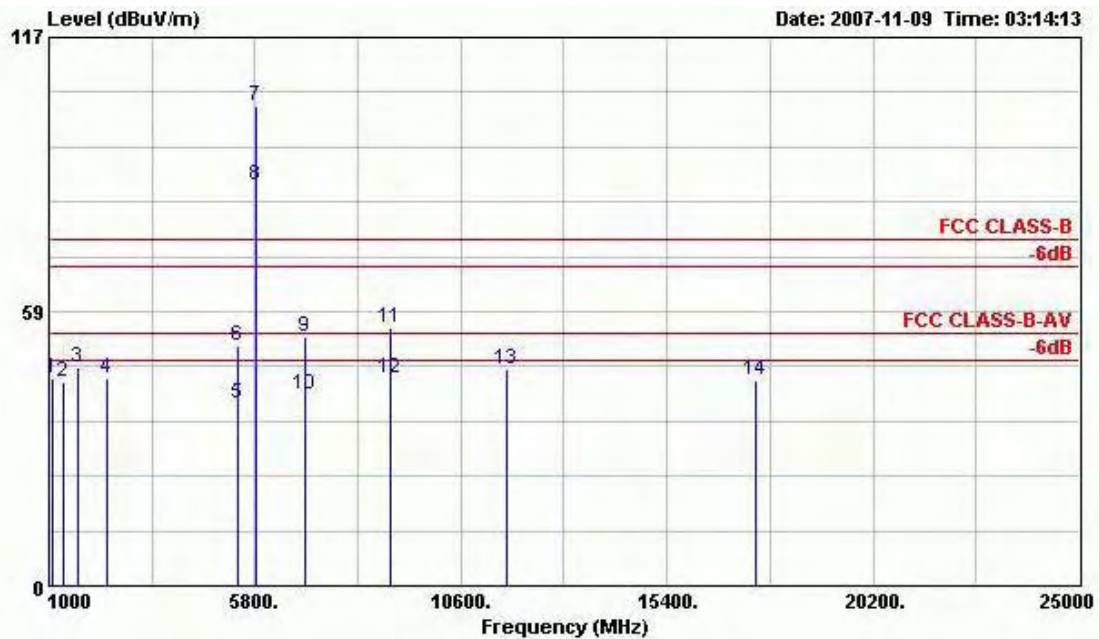
- Polarization : Vertical

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



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL  
 EUT : N/B  
 POWER : 120Vac/60Hz  
 MODEL : FR 701819  
 MOME : 11a Tx\_Ch165;5825MHz  
 Data Rate: 9

|   | Freq    | Level  | Over<br>Limit | Limit<br>Line | ReadAntenna<br>Level Factor | Cable<br>Loss | Preamp<br>Factor | Ant<br>Pos | Table<br>Pos | Remark |      |
|---|---------|--------|---------------|---------------|-----------------------------|---------------|------------------|------------|--------------|--------|------|
|   | MHz     | dBuV/m | dB            | dBuV/m        | dBuV                        | dB/m          | dB               | dB         | cm           | deg    |      |
| 1 | 30.540  | 29.25  | -10.75        | 40.00         | 40.27                       | 16.36         | 0.87             | 28.25      | ---          | ---    | Peak |
| 2 | 57.540  | 29.66  | -10.34        | 40.00         | 52.37                       | 4.49          | 1.09             | 28.28      | ---          | ---    | Peak |
| 3 | 283.260 | 36.27  | -9.73         | 46.00         | 49.33                       | 12.40         | 2.18             | 27.63      | 100          | 117    | Peak |
| 4 | 304.900 | 32.80  | -13.20        | 46.00         | 45.70                       | 12.48         | 2.26             | 27.63      | ---          | ---    | Peak |
| 5 | 517.700 | 29.50  | -16.50        | 46.00         | 38.21                       | 17.43         | 2.88             | 29.02      | ---          | ---    | Peak |
| 6 | 665.400 | 29.98  | -16.02        | 46.00         | 35.58                       | 20.06         | 3.45             | 29.10      | ---          | ---    | Peak |



Site : 03CH04-HY  
Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL  
EUT : N/B  
POWER : 120Vac/60Hz  
MODEL : FR 701819  
MOME : 11a Tx\_Ch165;5825MHz  
Data Rate: 9

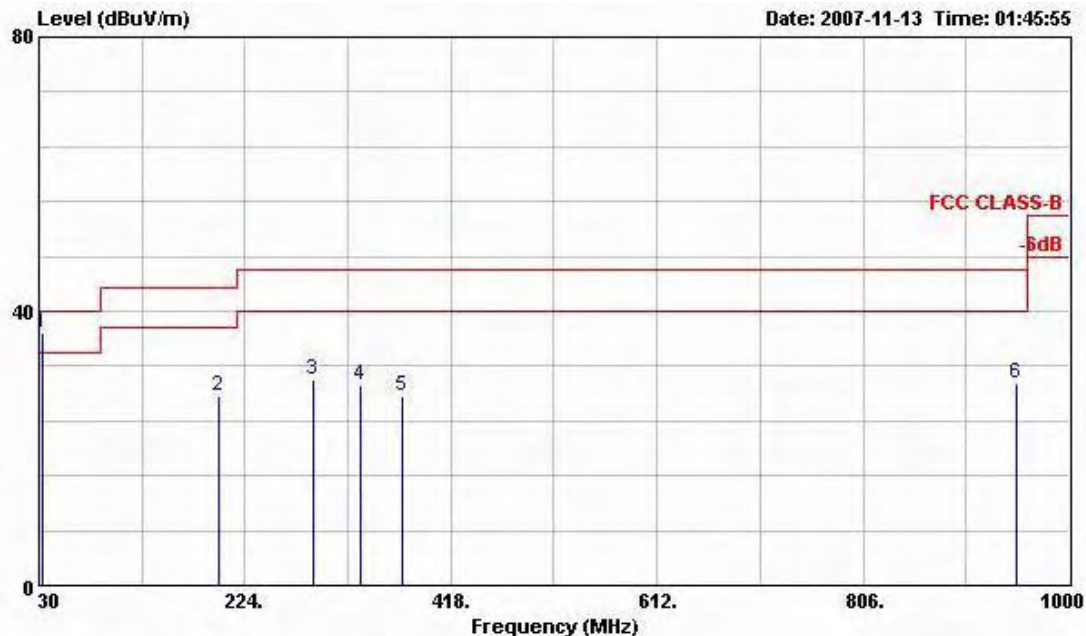
|     | Freq      | Level  | Over   | Limit  | ReadAntenna | Cable  | Preamp | Ant    | Table |             |
|-----|-----------|--------|--------|--------|-------------|--------|--------|--------|-------|-------------|
|     | MHz       | dBuV/m | Limit  | Line   | Level       | Factor | Loss   | Factor | Pos   | Pos Remark  |
|     |           |        | dB     | dBuV/m | dBuV        | dB/m   | dB     | dB     | cm    | deg         |
| 1   | 1094.000  | 44.22  | -29.78 | 74.00  | 51.88       | 24.27  | 2.34   | 34.26  | 100   | 0 Peak      |
| 2   | 1332.000  | 43.37  | -30.63 | 74.00  | 49.82       | 24.90  | 2.60   | 33.95  | 100   | 0 Peak      |
| 3   | 1668.000  | 46.50  | -27.50 | 74.00  | 51.30       | 25.93  | 2.97   | 33.70  | 100   | 0 Peak      |
| 4   | 2334.000  | 44.11  | -29.89 | 74.00  | 46.27       | 27.92  | 3.69   | 33.77  | 100   | 0 Peak      |
| 5   | 5420.000  | 38.79  | -35.21 | 74.00  | 33.21       | 33.70  | 6.01   | 34.13  | 127   | 8 Average   |
| 6   | 5420.000  | 51.04  |        |        | 45.46       | 33.70  | 6.01   | 34.13  | 100   | 0 Peak      |
| 7 X | 5825.000  | 102.54 | 28.54  | 74.00  | 96.56       | 34.00  | 6.02   | 34.04  | 100   | 0 Peak      |
| 8 @ | 5825.000  | 85.36  | 31.36  | 54.00  | 79.38       | 34.00  | 6.02   | 34.04  | 127   | 8 Average   |
| 9   | 6982.000  | 53.23  | -20.77 | 74.00  | 44.21       | 35.17  | 6.35   | 32.50  | 100   | 0 Peak      |
| 10  | 6982.000  | 40.65  | -13.35 | 54.00  | 31.63       | 35.17  | 6.35   | 32.50  | 127   | 8 Average   |
| 11  | 8974.000  | 55.20  | -18.80 | 74.00  | 44.66       | 38.06  | 7.26   | 34.78  | 100   | 0 Peak      |
| 12  | 8974.000  | 44.12  | -9.88  | 54.00  | 33.58       | 38.06  | 7.26   | 34.78  | 100   | 131 Average |
| 13  | 11654.000 | 46.17  | -27.83 | 74.00  | 83.82       | -11.14 | 7.86   | 34.36  | 100   | 0 Peak      |
| 14  | 17478.000 | 44.05  | -29.95 | 74.00  | 80.23       | -12.12 | 9.64   | 33.71  | 100   | 0 Peak      |

Remark: #7 and #8 Fundamental Signal



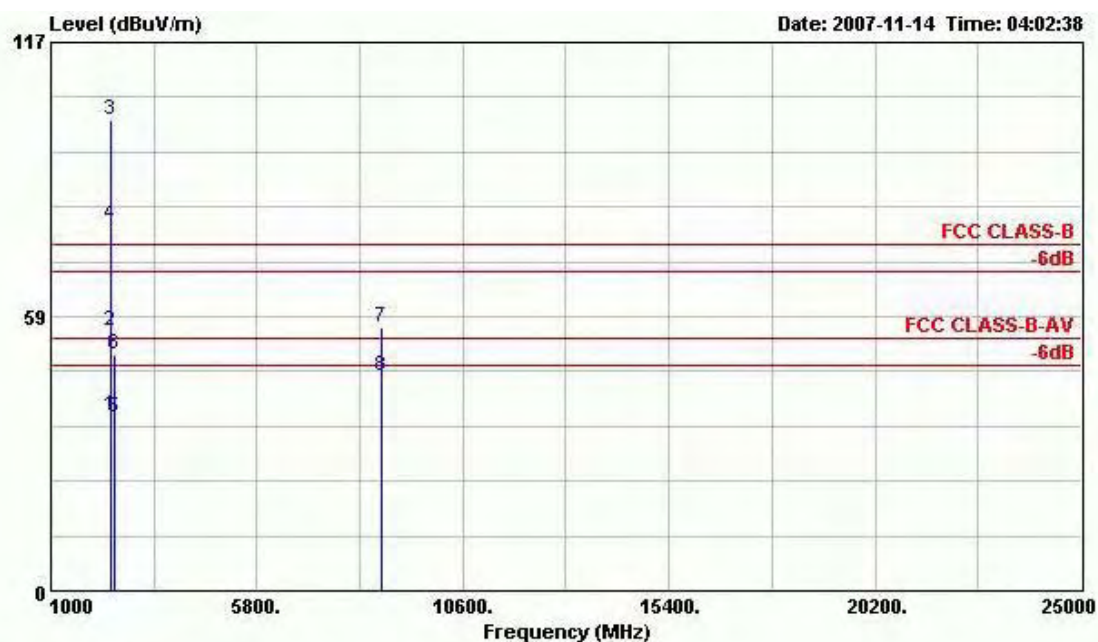
- Test Mode : Mode 10
- Polarization : Horizontal

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



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL  
 EUT : N/B  
 POWER : 120Vac/60Hz  
 MODEL : FR 701819  
 MEMO : 11n(g) TX(20M)\_CH01;2412MHz  
 Data Rate: 48

|     | Freq    | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table |          |
|-----|---------|--------|--------|--------|-------------|-------|--------|-------|-------|----------|
|     | MHz     | dBuV/m | Limit  | Line   | Level       | Loss  | Factor | Pos   | Pos   | Remark   |
|     | MHz     | dBuV/m | dB     | dBuV/m | dBuV        | dB/m  | dB     | dB    | cm    | deg      |
| 1 @ | 32.700  | 36.97  | -3.03  | 40.00  | 48.01       | 16.33 | 0.90   | 28.26 | 100   | 285 Peak |
| 2   | 199.290 | 27.52  | -15.98 | 43.50  | 44.73       | 8.72  | 1.88   | 27.80 | ---   | ---      |
| 3   | 287.850 | 29.88  | -16.12 | 46.00  | 42.94       | 12.37 | 2.19   | 27.62 | ---   | ---      |
| 4   | 332.200 | 29.20  | -16.80 | 46.00  | 41.23       | 13.45 | 2.35   | 27.82 | ---   | ---      |
| 5   | 372.100 | 27.64  | -18.36 | 46.00  | 38.45       | 14.81 | 2.48   | 28.11 | ---   | ---      |
| 6   | 951.000 | 29.50  | -16.50 | 46.00  | 29.42       | 24.79 | 3.98   | 28.70 | ---   | ---      |



Site : 03CH04-HY  
Condition: FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL  
EUT : N/B  
POWER : 120Vac/60Hz  
MODEL : FR 701819  
MEMO : 11n(g) TX(20M)\_CH01;2412MHz  
Data Rate: 48

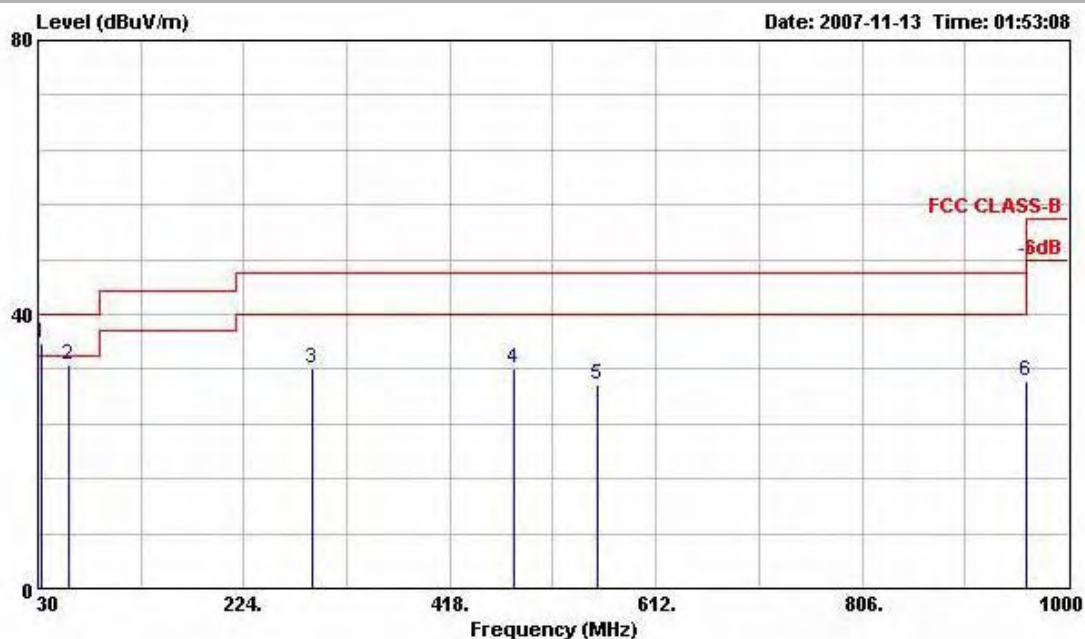
|     | Freq     | Level  | Over   | Limit  | ReadAntenna | Cable  | Preamp | Ant    | Table |             |
|-----|----------|--------|--------|--------|-------------|--------|--------|--------|-------|-------------|
|     | MHz      | dBuV/m | Limit  | Line   | Level       | Factor | Loss   | Factor | Pos   | Pos Remark  |
|     |          |        | dB     | dBuV/m | dBuV        | dB/m   | dB     | dB     | cm    | deg         |
| 1   | 2390.000 | 37.50  |        |        | 39.47       | 28.07  | 3.74   | 33.78  | 100   | 99 Average  |
| 2   | 2390.000 | 55.34  |        |        | 57.31       | 28.07  | 3.74   | 33.78  | 100   | 0 Peak      |
| 3 @ | 2412.000 | 100.37 | 26.37  | 74.00  | 102.28      | 28.11  | 3.76   | 33.78  | 100   | 0 Peak      |
| 4 @ | 2412.000 | 78.22  | 24.22  | 54.00  | 80.13       | 28.11  | 3.76   | 33.78  | 100   | 99 Average  |
| 5   | 2484.000 | 36.79  | -17.21 | 54.00  | 38.49       | 28.26  | 3.84   | 33.80  | 100   | 99 Average  |
| 6   | 2484.000 | 50.47  | -23.53 | 74.00  | 52.17       | 28.26  | 3.84   | 33.80  | 100   | 0 Peak      |
| 7   | 8718.000 | 56.05  | -17.95 | 74.00  | 45.74       | 37.76  | 7.13   | 34.58  | 100   | 0 Peak      |
| 8   | 8718.000 | 45.73  | -8.27  | 54.00  | 35.42       | 37.76  | 7.13   | 34.58  | 100   | 247 Average |

Remark: #3 and #4 Fundamental Signal



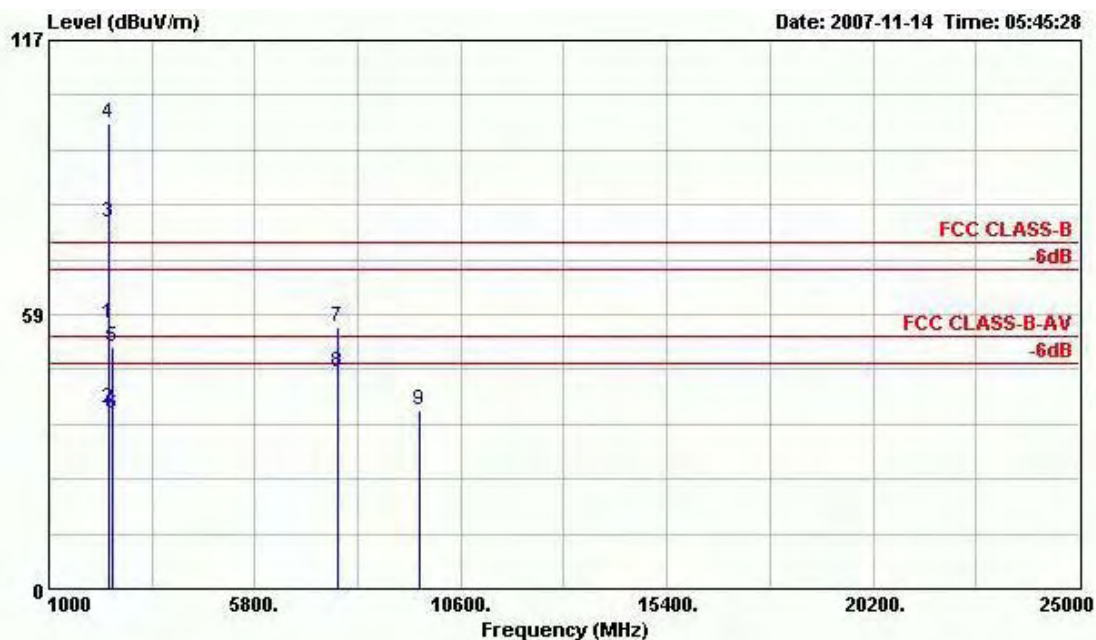
- Polarization : Vertical

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



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL  
 EUT : N/B  
 POWER : 120Vac/60Hz  
 MODEL : FR 701819  
 MEMO : 11n(g) TX(20M)\_CH01;2412MHz  
 Data Rate: 48

|     | Freq    | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table |          |
|-----|---------|--------|--------|--------|-------------|-------|--------|-------|-------|----------|
|     | MHz     | dBuV/m | Limit  | Line   | Level       | Loss  | Factor | Pos   | Pos   | Remark   |
|     |         |        | dB     | dBuV/m | dBuV        | dB/m  | dB     | dB    | cm    | deg      |
| 1 ! | 32.700  | 35.84  | -4.16  | 40.00  | 46.88       | 16.33 | 0.90   | 28.26 | 100   | 185 Peak |
| 2   | 58.620  | 32.69  | -7.31  | 40.00  | 56.11       | 3.76  | 1.10   | 28.28 | ---   | --- Peak |
| 3   | 287.850 | 32.22  | -13.78 | 46.00  | 45.28       | 12.37 | 2.19   | 27.62 | ---   | --- Peak |
| 4   | 478.500 | 32.00  | -14.00 | 46.00  | 41.42       | 16.65 | 2.77   | 28.85 | ---   | --- Peak |
| 5   | 556.900 | 29.74  | -16.26 | 46.00  | 37.19       | 18.59 | 3.02   | 29.06 | ---   | --- Peak |
| 6   | 960.100 | 30.28  | -23.72 | 54.00  | 29.94       | 25.04 | 3.99   | 28.68 | ---   | --- Peak |



Site : 03CH04-HY  
Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL  
EUT : N/B  
POWER : 120Vac/60Hz  
MODEL : FR 701819  
MEMO : 11n(g) TX(20M)\_CH01;2412MHz  
Data Rate: 48

|     | Freq     | Level  | Over   | Limit  | ReadAntenna | Cable  | Preamp | Ant    | Table |             |
|-----|----------|--------|--------|--------|-------------|--------|--------|--------|-------|-------------|
|     | MHz      | dBuV/m | Limit  | Line   | Level       | Factor | Loss   | Factor | Pos   | Pos Remark  |
|     |          |        | dB     | dBuV/m | dBuV        | dB/m   | dB     | dB     | cm    | deg         |
| 1   | 2390.000 | 56.43  | -17.57 | 74.00  | 58.40       | 28.07  | 3.74   | 33.78  | 100   | 0 Peak      |
| 2   | 2390.000 | 38.44  |        |        | 40.41       | 28.07  | 3.74   | 33.78  | 100   | 101 Average |
| 3 @ | 2412.000 | 78.31  | 24.31  | 54.00  | 80.22       | 28.11  | 3.76   | 33.78  | 100   | 101 Average |
| 4 @ | 2412.000 | 99.22  | 25.22  | 74.00  | 101.13      | 28.11  | 3.76   | 33.78  | 100   | 0 Peak      |
| 5   | 2494.000 | 51.55  | -22.45 | 74.00  | 53.21       | 28.30  | 3.84   | 33.80  | 100   | 0 Peak      |
| 6   | 2494.000 | 37.27  | -16.73 | 54.00  | 38.93       | 28.30  | 3.84   | 33.80  | 100   | 101 Average |
| 7   | 7722.000 | 55.78  | -18.22 | 74.00  | 46.27       | 36.57  | 6.65   | 33.71  | 100   | 0 Peak      |
| 8   | 7722.000 | 46.27  | -7.73  | 54.00  | 36.76       | 36.57  | 6.65   | 33.71  | 100   | 351 Average |
| 9   | 9645.000 | 37.96  | -36.04 | 74.00  | 75.45       | -10.09 | 7.60   | 35.00  | 100   | 0 Peak      |

Remark: #3 and #4 Fundamental Signal



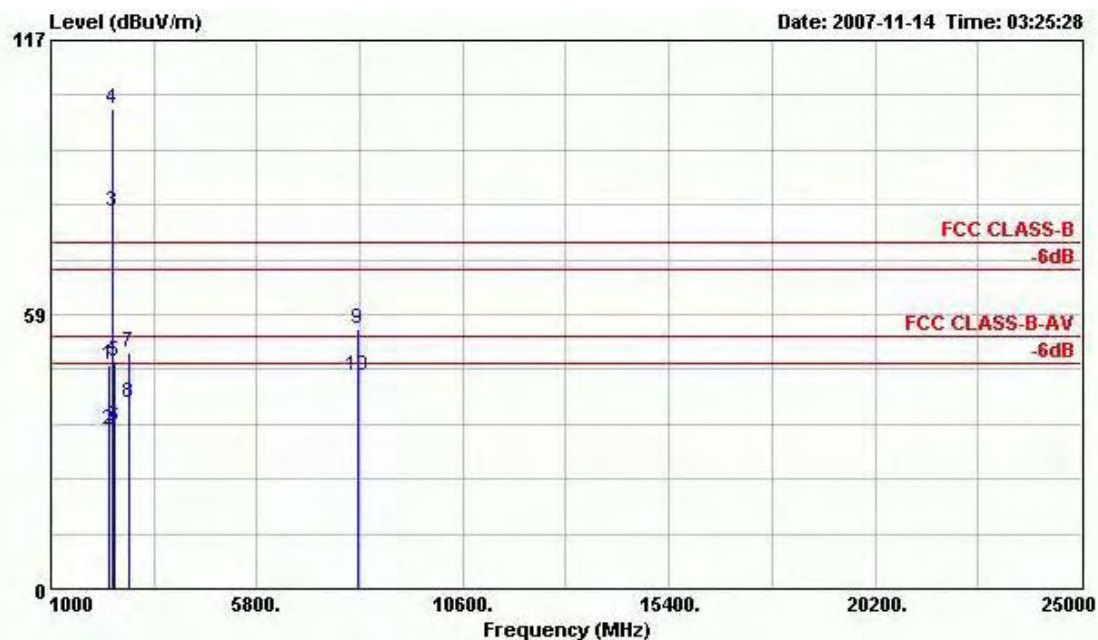
- Test Mode : Mode 11
- Polarization : Horizontal

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



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL  
 EUT : N/B  
 POWER : 120Vac/60Hz  
 MODEL : FR 701819  
 MEMO : 11n(g) TX(20M)\_CH06;2437MHz  
 Data Rate: 48

|     | Freq    | Level  | Over Limit | Limit Line | ReadAntenna Level | Antenna Factor | Cable Loss | Preamplifier | Ant Pos | Table Pos | Remark |
|-----|---------|--------|------------|------------|-------------------|----------------|------------|--------------|---------|-----------|--------|
|     | MHz     | dBuV/m | dB         | dBuV/m     | dBuV              | dB/m           | dB         | dB           | cm      | deg       |        |
| 1 ! | 32.970  | 35.15  | -4.85      | 40.00      | 46.19             | 16.33          | 0.90       | 28.26        | 100     | 174       | Peak   |
| 2   | 192.540 | 27.06  | -16.44     | 43.50      | 44.20             | 8.85           | 1.84       | 27.83        | ---     | ---       | Peak   |
| 3   | 287.850 | 29.89  | -16.11     | 46.00      | 42.95             | 12.37          | 2.19       | 27.62        | ---     | ---       | Peak   |
| 4   | 332.900 | 28.93  | -17.07     | 46.00      | 40.97             | 13.45          | 2.35       | 27.83        | ---     | ---       | Peak   |
| 5   | 923.000 | 29.15  | -16.85     | 46.00      | 29.84             | 24.10          | 3.97       | 28.75        | ---     | ---       | Peak   |
| 6   | 960.100 | 30.47  | -23.53     | 54.00      | 30.13             | 25.04          | 3.99       | 28.68        | ---     | ---       | Peak   |



Site : 03CH04-HY  
Condition: FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL  
EUT : N/B  
POWER : 120Vac/60Hz  
MODEL : FR 701819  
MEMO : 11n(g) TX(20M)\_CH06;2437MHz  
Data Rate: 48

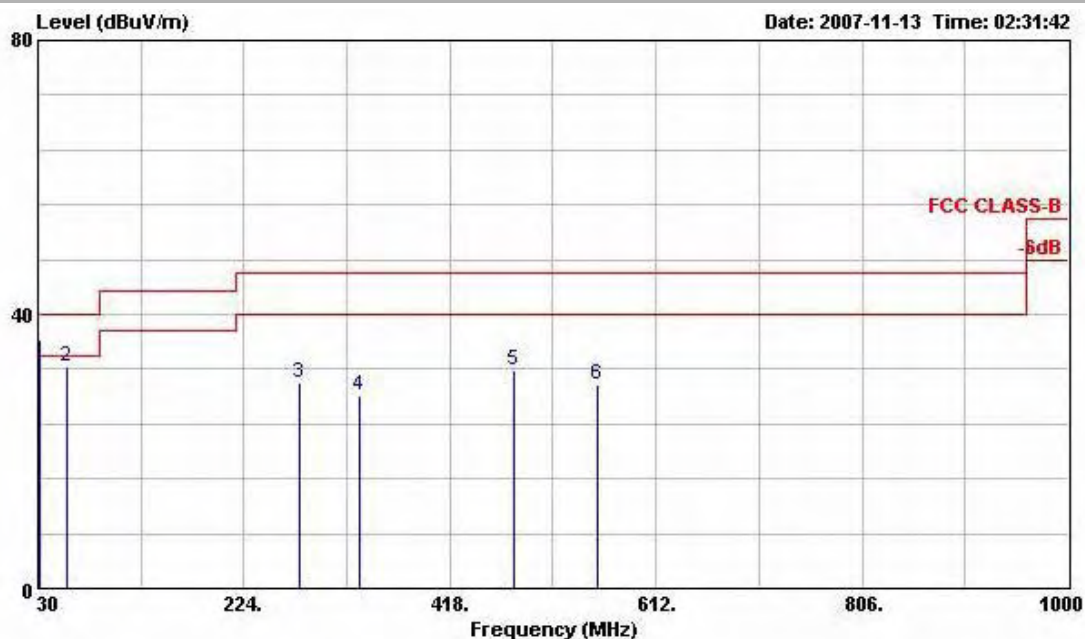
|     | Freq     | Level  | Over   | Limit  | ReadAntenna | Cable  | Preamp | Ant    | Table |             |
|-----|----------|--------|--------|--------|-------------|--------|--------|--------|-------|-------------|
|     | MHz      | dBuV/m | Limit  | Line   | Level       | Factor | Loss   | Factor | Pos   | Remark      |
|     |          |        | dB     | dBuV/m | dBuV        | dB/m   | dB     | dB     | cm    | deg         |
| 1   | 2372.000 | 47.55  | -26.45 | 74.00  | 49.58       | 28.03  | 3.71   | 33.78  | 100   | 0 Peak      |
| 2   | 2372.000 | 33.89  |        |        | 35.92       | 28.03  | 3.71   | 33.78  | 100   | 178 Average |
| 3 X | 2437.000 | 80.43  | 26.43  | 54.00  | 82.24       | 28.19  | 3.79   | 33.79  | 100   | 178 Average |
| 4 @ | 2437.000 | 102.27 | 28.27  | 74.00  | 104.08      | 28.19  | 3.79   | 33.79  | 100   | 0 Peak      |
| 5   | 2484.000 | 48.45  | -25.55 | 74.00  | 50.15       | 28.26  | 3.84   | 33.80  | 100   | 0 Peak      |
| 6   | 2484.000 | 34.80  | -19.20 | 54.00  | 36.50       | 28.26  | 3.84   | 33.80  | 100   | 178 Average |
| 7   | 2836.000 | 50.59  | -23.41 | 74.00  | 50.91       | 29.57  | 4.19   | 34.07  | 100   | 0 Peak      |
| 8   | 2836.000 | 39.80  | -14.20 | 54.00  | 40.12       | 29.57  | 4.19   | 34.07  | 100   | 121 Average |
| 9   | 8142.000 | 55.37  | -18.63 | 74.00  | 45.35       | 36.99  | 6.83   | 33.81  | 100   | 0 Peak      |
| 10  | 8142.000 | 45.35  | -8.65  | 54.00  | 35.33       | 36.99  | 6.83   | 33.81  | 100   | 187 Average |

Remark: #3 and #4 Fundamental Signal



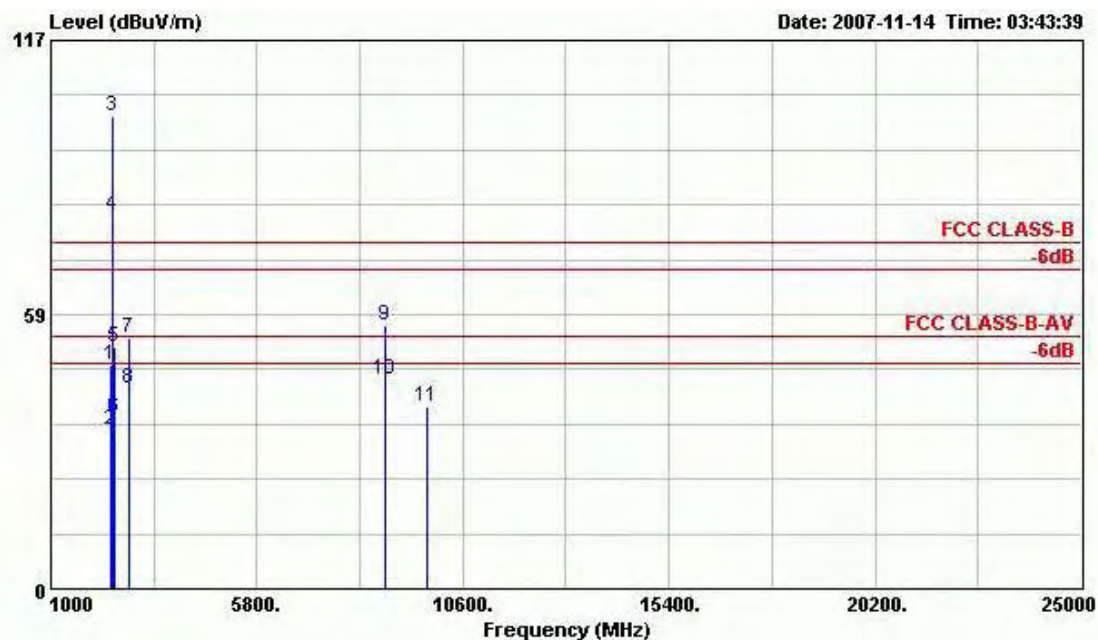
- Polarization : Vertical

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



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL  
 EUT : N/B  
 POWER : 120Vac/60Hz  
 MODEL : FR 701819  
 MEMO : 11n(g) TX(20M)\_CH06;2437MHz  
 Data Rate: 48

|   | Freq    | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table |          |
|---|---------|--------|--------|--------|-------------|-------|--------|-------|-------|----------|
|   | MHz     | dBuV/m | Limit  | Line   | Level       | Loss  | Factor | Pos   | Pos   | Remark   |
|   |         |        | dB     | dBuV/m | dBuV        | dB/m  | dB     | dB    | cm    | deg      |
| 1 | 31.620  | 36.34  | -3.66  | 40.00  | 47.38       | 16.34 | 0.88   | 28.26 | 100   | 239 Peak |
| 2 | 57.810  | 32.42  | -7.58  | 40.00  | 55.49       | 4.12  | 1.09   | 28.28 | ---   | ---      |
| 3 | 275.970 | 30.11  | -15.89 | 46.00  | 43.17       | 12.43 | 2.15   | 27.65 | ---   | ---      |
| 4 | 332.900 | 28.14  | -17.86 | 46.00  | 40.18       | 13.45 | 2.35   | 27.83 | ---   | ---      |
| 5 | 478.500 | 31.85  | -14.15 | 46.00  | 41.27       | 16.65 | 2.77   | 28.85 | ---   | ---      |
| 6 | 556.900 | 29.65  | -16.35 | 46.00  | 37.10       | 18.59 | 3.02   | 29.06 | ---   | ---      |



Site : 03CH04-HY  
Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL  
EUT : N/B  
POWER : 120Vac/60Hz  
MODEL : FR 701819  
MEMO : 11n(g) TX(20M)\_CH06;2437MHz  
Data Rate: 48

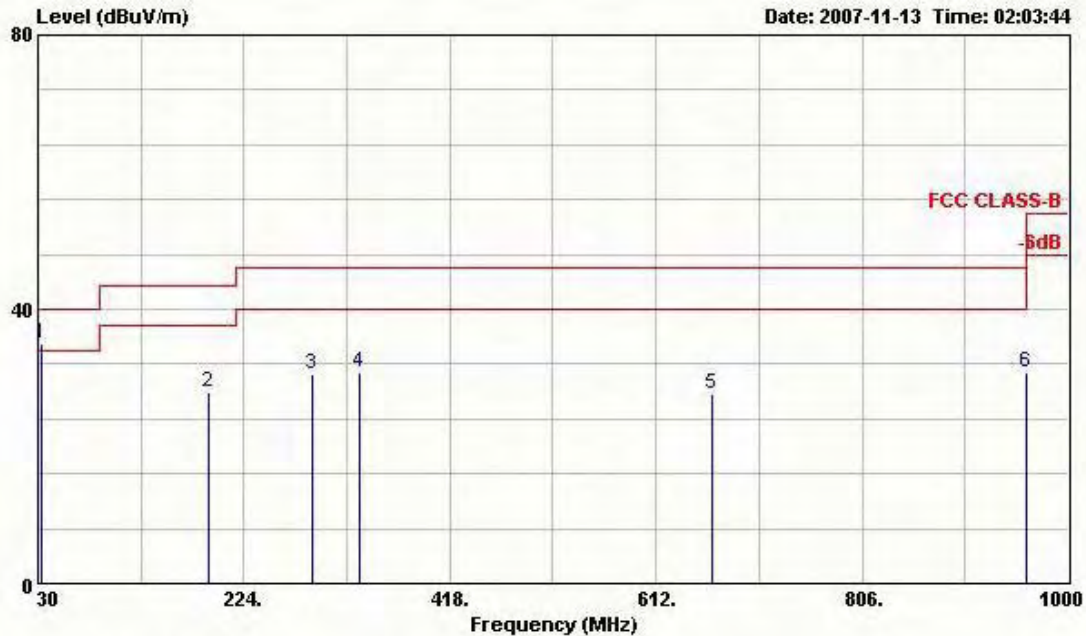
|     | Freq     | Level  | Over   | Limit  | ReadAntenna | Cable  | Preamp | Ant    | Table |             |
|-----|----------|--------|--------|--------|-------------|--------|--------|--------|-------|-------------|
|     | MHz      | dBuV/m | Limit  | Line   | Level       | Factor | Loss   | Factor | Pos   | Remark      |
|     |          |        | dB     | dBuV/m | dBuV        | dB/m   | dB     | dB     | cm    | deg         |
| 1   | 2390.000 | 47.91  | -26.00 | 74.00  | 49.88       | 28.07  | 3.74   | 33.78  | 100   | 0 Peak      |
| 2   | 2390.000 | 33.97  |        |        | 35.94       | 28.07  | 3.74   | 33.78  | 100   | 98 Average  |
| 3 @ | 2437.000 | 101.01 | 27.01  | 74.00  | 102.82      | 28.19  | 3.79   | 33.79  | 100   | 0 Peak      |
| 4 X | 2437.000 | 79.58  | 25.58  | 54.00  | 81.39       | 28.19  | 3.79   | 33.79  | 100   | 98 Average  |
| 5   | 2484.000 | 51.51  | -22.49 | 74.00  | 53.21       | 28.26  | 3.84   | 33.80  | 100   | 0 Peak      |
| 6   | 2484.000 | 36.55  | -17.45 | 54.00  | 38.25       | 28.26  | 3.84   | 33.80  | 100   | 98 Average  |
| 7   | 2836.000 | 53.40  | -20.60 | 74.00  | 53.72       | 29.57  | 4.19   | 34.07  | 100   | 0 Peak      |
| 8   | 2836.000 | 42.75  | -11.25 | 54.00  | 43.07       | 29.57  | 4.19   | 34.07  | 100   | 251 Average |
| 9   | 8805.000 | 56.09  | -17.91 | 74.00  | 45.70       | 37.86  | 7.17   | 34.64  | 100   | 0 Peak      |
| 10  | 8805.000 | 44.54  | -9.46  | 54.00  | 34.15       | 37.86  | 7.17   | 34.64  | 100   | 83 Average  |
| 11  | 9747.000 | 38.86  | -35.14 | 74.00  | 76.06       | -9.85  | 7.65   | 35.00  | 100   | 0 Peak      |

Remark: #3 and #4 Fundamental Signal



- Test Mode : Mode 12
- Polarization : Horizontal

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



Site : 03CH04-HY

Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL

EUT : N/B

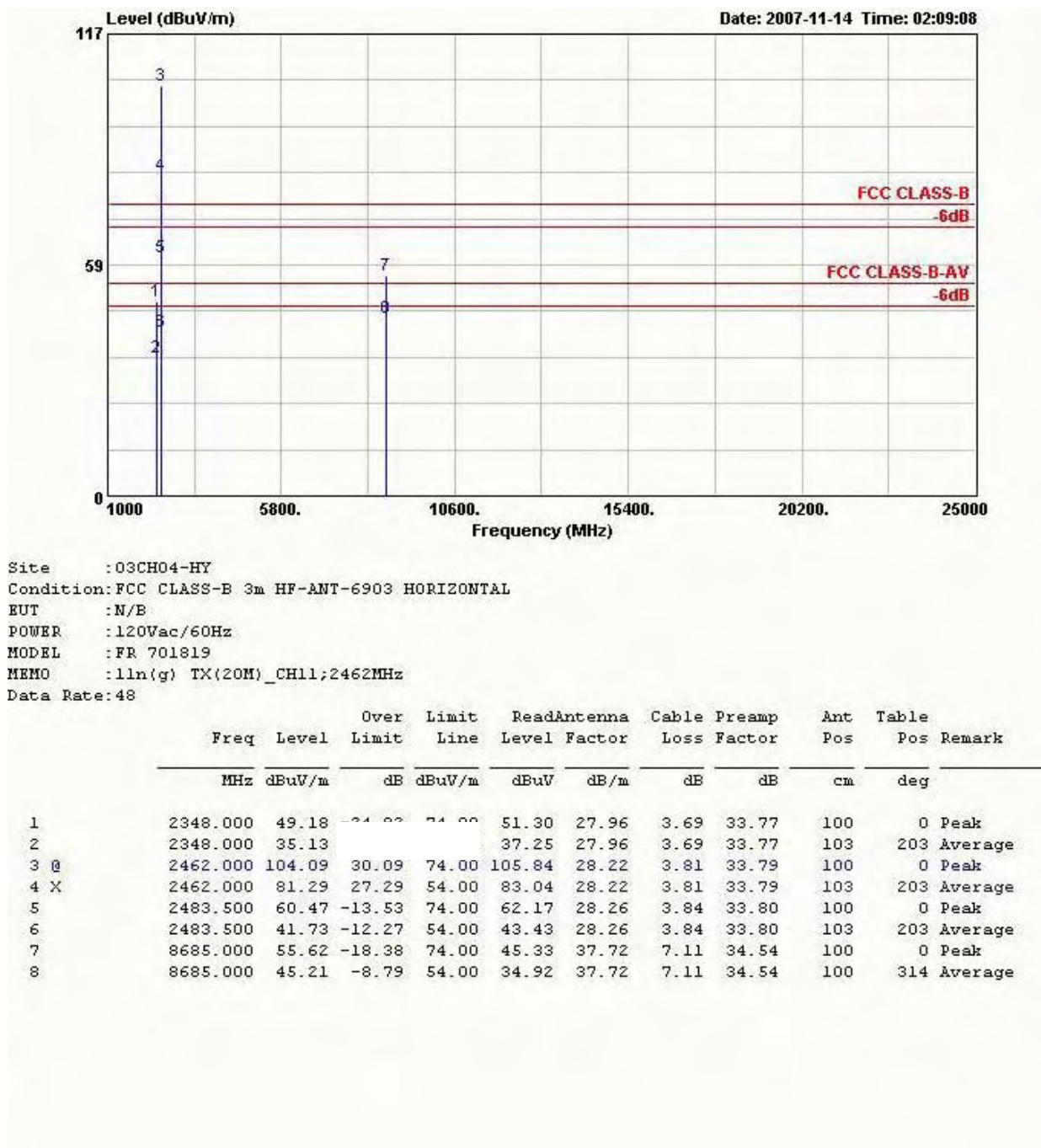
POWER : 120Vac/60Hz

MODEL : FR 701819

MEMO : 11n(g) TX(20M)\_CH11;2462MHz

Data Rate: 48

|     | Freq    | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table |          |
|-----|---------|--------|--------|--------|-------------|-------|--------|-------|-------|----------|
|     | MHz     | dBuV/m | Limit  | Line   | Level       | Loss  | Factor | Pos   | Pos   | Remark   |
|     | MHz     | dBuV/m | dB     | dBuV/m | dBuV        | dB/m  | dB     | dB    | cm    | deg      |
| 1 ! | 32.700  | 34.98  | -5.02  | 40.00  | 46.02       | 16.33 | 0.90   | 28.26 | 100   | 181 Peak |
| 2   | 190.380 | 27.91  | -15.59 | 43.50  | 45.02       | 8.90  | 1.83   | 27.84 | ---   | ---      |
| 3   | 287.850 | 30.53  | -15.47 | 46.00  | 43.59       | 12.37 | 2.19   | 27.62 | ---   | ---      |
| 4   | 332.900 | 30.90  | -15.10 | 46.00  | 42.94       | 13.45 | 2.35   | 27.83 | ---   | ---      |
| 5   | 665.400 | 27.52  | -18.48 | 46.00  | 33.12       | 20.06 | 3.45   | 29.10 | ---   | ---      |
| 6   | 960.100 | 30.92  | -23.08 | 54.00  | 30.58       | 25.04 | 3.99   | 28.68 | ---   | ---      |

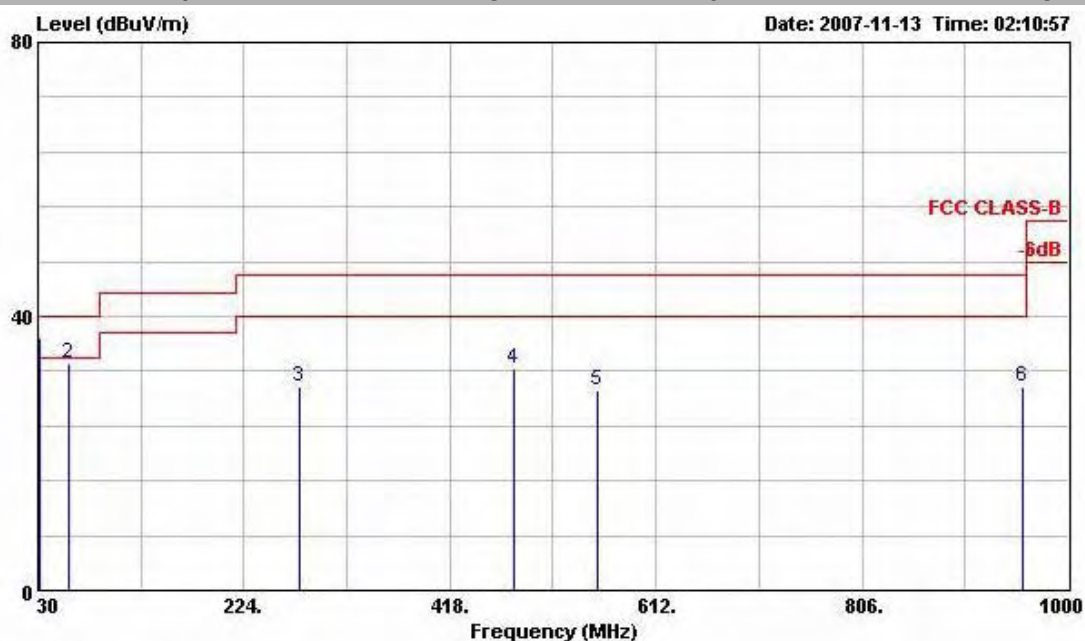


Remark: #3 and #4 Fundamental Signal



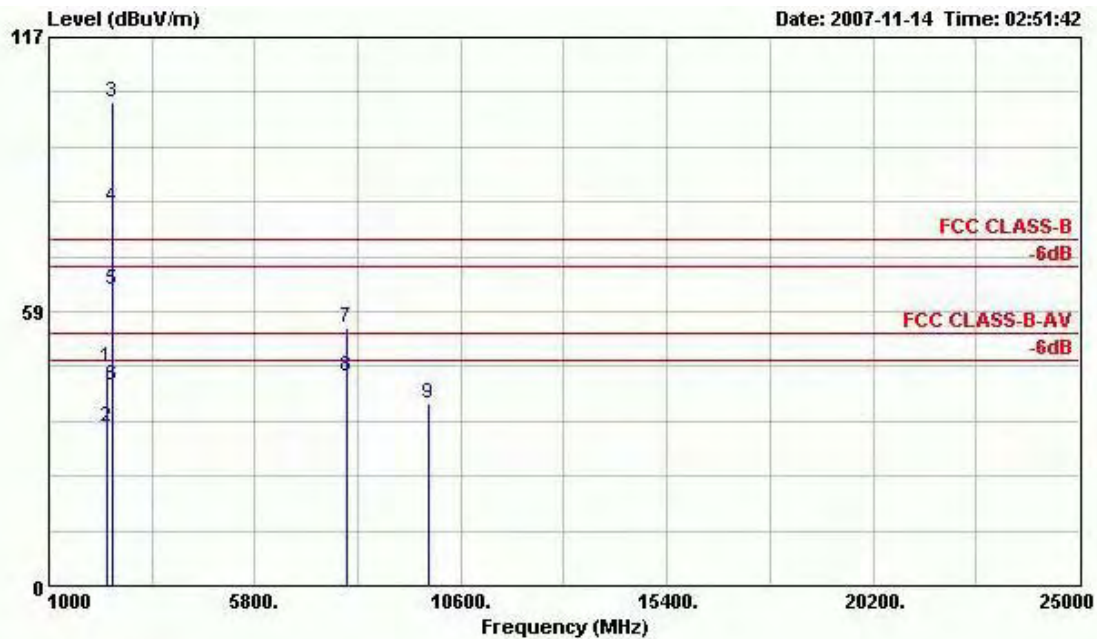
- Polarization : Vertical

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



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL  
 EUT : N/B  
 POWER : 120Vac/60Hz  
 MODEL : FR 701819  
 MEMO : 11n(g) TX(20M)\_CH11;2462MHz  
 Data Rate: 48

|   | Freq    | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table |          |
|---|---------|--------|--------|--------|-------------|-------|--------|-------|-------|----------|
|   | MHz     | dBuV/m | Limit  | Line   | Level       | Loss  | Factor | Pos   | Pos   | Remark   |
|   |         |        | dB     | dBuV/m | dBuV        | dB/m  | dB     | dB    | cm    | deg      |
| 1 | 31.620  | 36.86  | -3.14  | 40.00  | 47.90       | 16.34 | 0.88   | 28.26 | 100   | 152 Peak |
| 2 | 58.890  | 33.17  | -6.83  | 40.00  | 56.59       | 3.76  | 1.10   | 28.28 | ---   | ---      |
| 3 | 275.970 | 29.83  | -16.17 | 46.00  | 42.89       | 12.43 | 2.15   | 27.65 | ---   | ---      |
| 4 | 478.500 | 32.24  | -13.76 | 46.00  | 41.66       | 16.65 | 2.77   | 28.85 | ---   | ---      |
| 5 | 556.900 | 29.23  | -16.77 | 46.00  | 36.68       | 18.59 | 3.02   | 29.06 | ---   | ---      |
| 6 | 956.600 | 29.69  | -16.31 | 46.00  | 29.45       | 24.94 | 3.98   | 28.69 | ---   | ---      |



Site : 03CH04-HY  
Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL  
EUT : N/B  
POWER : 120Vac/60Hz  
MODEL : FR 701819  
MEMO : 11n(g) TX(20M)\_CH11;2462MHz  
Data Rate: 48

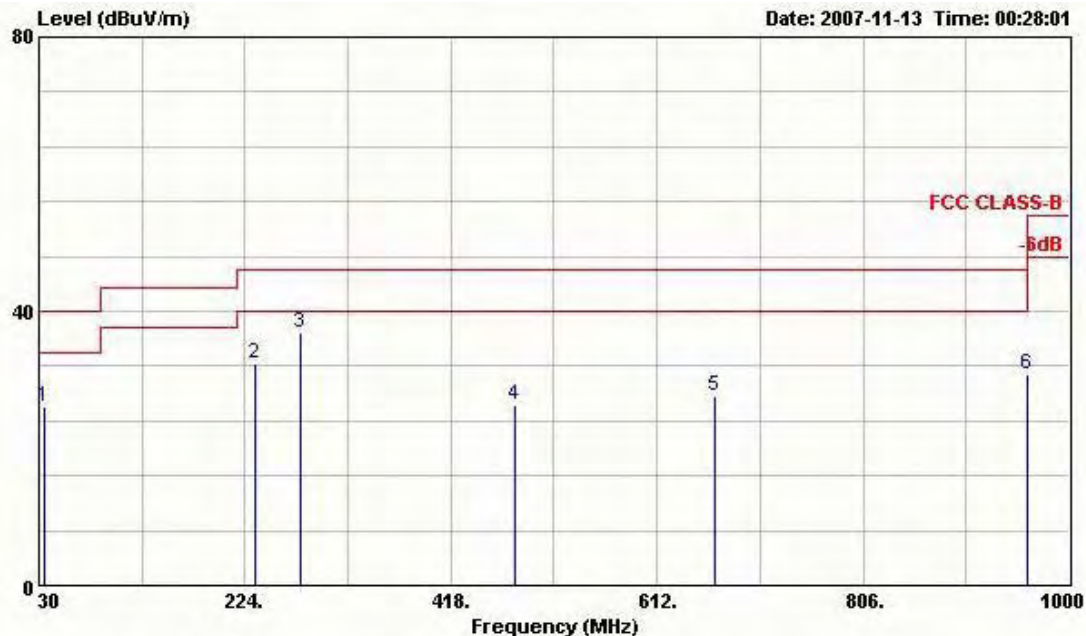
|     | Freq     | Level  | Over   | Limit  | ReadAntenna | Cable  | Preamp | Ant    | Table |             |
|-----|----------|--------|--------|--------|-------------|--------|--------|--------|-------|-------------|
|     | MHz      | dBuV/m | Limit  | Line   | Level       | Factor | Loss   | Factor | Pos   | Remark      |
|     |          |        | dB     | dBuV/m | dBuV        | dB/m   | dB     | dB     | cm    | deg         |
| 1   | 2334.000 | 46.73  | -27.27 | 74.00  | 48.89       | 27.92  | 3.69   | 33.77  | 100   | 0 Peak      |
| 2   | 2334.000 | 33.84  |        |        | 36.00       | 27.92  | 3.69   | 33.77  | 100   | 103 Average |
| 3 @ | 2462.000 | 103.13 | 29.13  | 74.00  | 104.88      | 28.22  | 3.81   | 33.79  | 100   | 0 Peak      |
| 4 X | 2462.000 | 80.74  | 26.74  | 54.00  | 82.49       | 28.22  | 3.81   | 33.79  | 100   | 103 Average |
| 5   | 2483.500 | 63.11  | -10.89 | 74.00  | 64.81       | 28.26  | 3.84   | 33.80  | 100   | 0 Peak      |
| 6   | 2483.500 | 42.58  | -11.42 | 54.00  | 44.28       | 28.26  | 3.84   | 33.80  | 100   | 103 Average |
| 7   | 7929.000 | 55.17  | -18.83 | 74.00  | 45.32       | 36.75  | 6.73   | 33.63  | 100   | 0 Peak      |
| 8   | 7929.000 | 44.76  | -9.24  | 54.00  | 34.91       | 36.75  | 6.73   | 33.63  | 100   | 155 Average |
| 9   | 9849.000 | 38.92  | -35.08 | 74.00  | 75.83       | -9.63  | 7.72   | 35.00  | 100   | 0 Peak      |

Remark: #3 and #4 Fundamental Signal



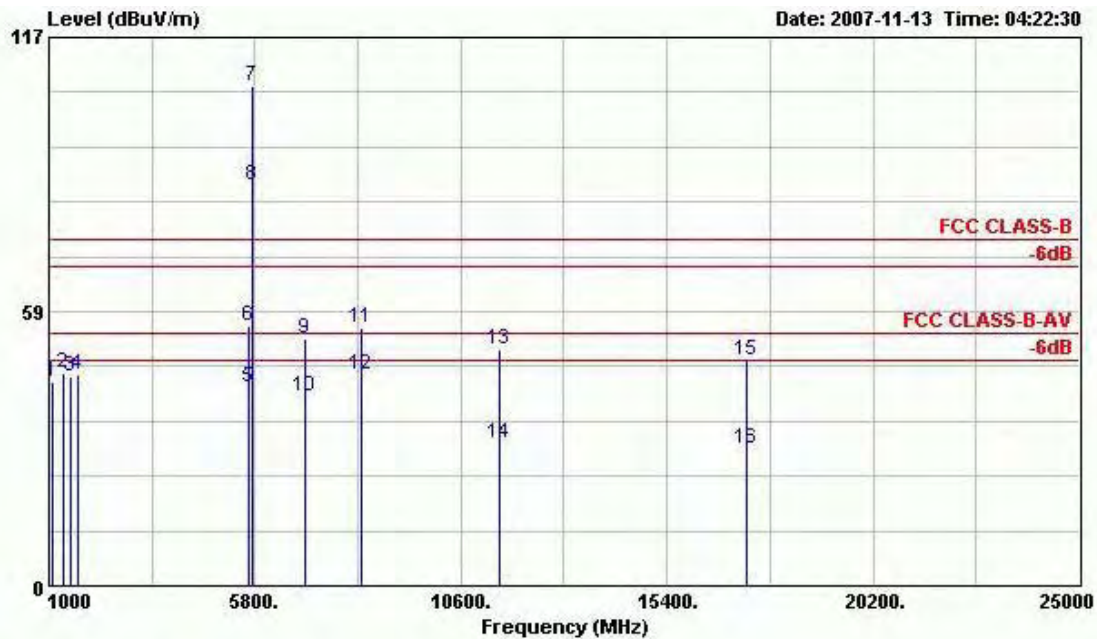
- Test Mode : Mode 13
- Polarization : Horizontal

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



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL  
 EUT : N/B  
 POWER : 120Vac/60Hz  
 MODEL : FR 701819  
 MEMO : 11n(a) Tx(20M)\_Ch149;5745MHz  
 Data Rate: 36

|   | Freq    | Level  | Over<br>Limit | Limit<br>Line | ReadAntenna<br>Level Factor | Cable<br>Loss | Preamp<br>Factor | Ant<br>Pos | Table<br>Pos | Remark |      |
|---|---------|--------|---------------|---------------|-----------------------------|---------------|------------------|------------|--------------|--------|------|
|   | MHz     | dBuV/m | dB            | dBuV/m        | dBuV                        | dB/m          | dB               | dB         | cm           | deg    |      |
| 1 | 35.940  | 26.14  | -13.86        | 40.00         | 38.08                       | 15.40         | 0.93             | 28.27      | ---          | ---    | Peak |
| 2 | 233.850 | 32.33  | -13.67        | 46.00         | 46.75                       | 11.31         | 2.00             | 27.73      | ---          | ---    | Peak |
| 3 | 276.780 | 36.92  | -9.08         | 46.00         | 49.98                       | 12.43         | 2.15             | 27.65      | 100          | 177    | Peak |
| 4 | 478.500 | 26.38  | -19.62        | 46.00         | 35.80                       | 16.65         | 2.77             | 28.85      | ---          | ---    | Peak |
| 5 | 666.100 | 27.61  | -18.39        | 46.00         | 33.20                       | 20.06         | 3.45             | 29.10      | ---          | ---    | Peak |
| 6 | 960.100 | 30.88  | -23.12        | 54.00         | 30.54                       | 25.04         | 3.99             | 28.68      | ---          | ---    | Peak |



Site : 03CH04-HY  
Condition: FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL  
EUT : N/B  
POWER : 120Vac/60Hz  
MODEL : FR 701819  
MEMO : 11ln(a) Tx(20M)\_Ch149;5745MHz  
Data Rate: 36

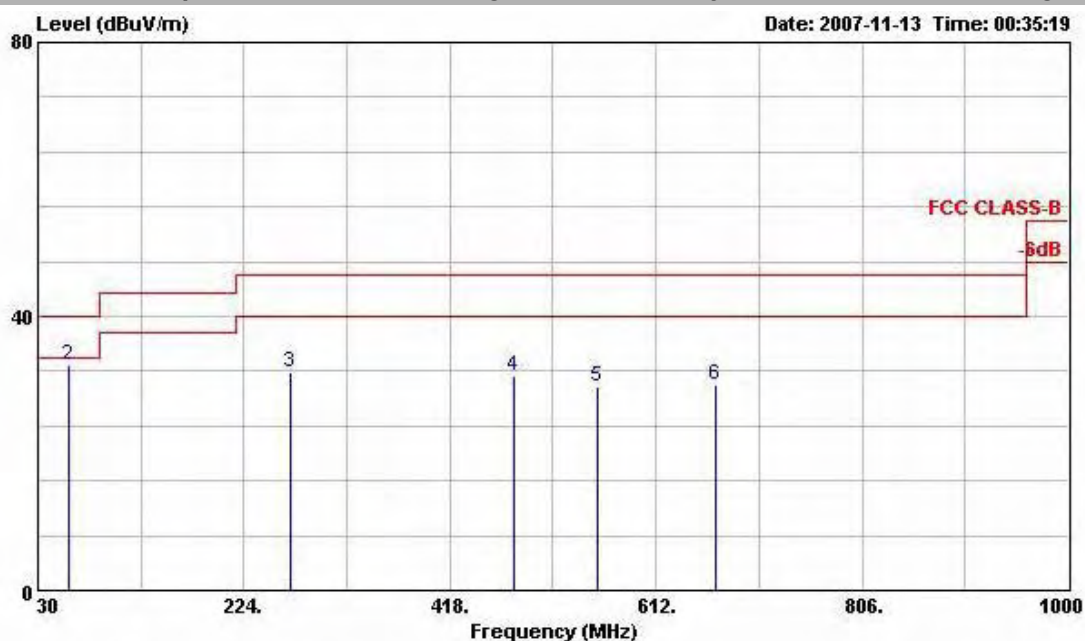
|     | Freq      | Level  | Over Limit | Limit Line | ReadAntenna Level | Cable Factor | Preamp Loss | Ant Pos | Table Pos | Remark      |
|-----|-----------|--------|------------|------------|-------------------|--------------|-------------|---------|-----------|-------------|
|     | MHz       | dBuV/m | dB         | dBuV/m     | dBuV              | dB/m         | dB          | cm      | deg       |             |
| 1   | 1094.000  | 43.56  | -30.44     | 74.00      | 51.22             | 24.27        | 2.34        | 34.26   | 100       | 0 Peak      |
| 2   | 1332.000  | 45.34  | -28.66     | 74.00      | 51.79             | 24.90        | 2.60        | 33.95   | 100       | 0 Peak      |
| 3   | 1500.000  | 44.57  | -29.43     | 74.00      | 50.19             | 25.30        | 2.79        | 33.70   | 100       | 0 Peak      |
| 4   | 1662.000  | 45.17  | -28.83     | 74.00      | 49.97             | 25.93        | 2.97        | 33.70   | 100       | 0 Peak      |
| 5   | 5670.000  | 42.24  | -31.76     | 74.00      | 36.38             | 33.90        | 6.02        | 34.07   | 100       | 344 Average |
| 6   | 5670.000  | 55.52  | -18.48     | 74.00      | 49.66             | 33.90        | 6.02        | 34.07   | 100       | 0 Peak      |
| 7 @ | 5745.000  | 106.59 | 32.59      | 74.00      | 100.67            | 33.94        | 6.02        | 34.05   | 100       | 0 Peak      |
| 8 @ | 5745.000  | 85.39  | 31.39      | 54.00      | 79.47             | 33.94        | 6.02        | 34.05   | 100       | 344 Average |
| 9   | 6950.000  | 52.76  | -21.24     | 74.00      | 43.86             | 35.10        | 6.34        | 32.54   | 100       | 0 Peak      |
| 10  | 6950.000  | 40.47  | -13.53     | 54.00      | 31.57             | 35.10        | 6.34        | 32.54   | 100       | 344 Average |
| 11  | 8292.000  | 55.21  | -18.79     | 74.00      | 45.15             | 37.21        | 6.91        | 34.06   | 100       | 0 Peak      |
| 12  | 8292.000  | 45.15  | -8.85      | 54.00      | 35.09             | 37.21        | 6.91        | 34.06   | 100       | 14 Average  |
| 13  | 11493.000 | 50.32  | -23.68     | 74.00      | 88.50             | -11.73       | 7.84        | 34.30   | 100       | 0 Peak      |
| 14  | 11493.000 | 30.57  | -23.43     | 54.00      | 68.75             | -11.73       | 7.84        | 34.30   | 100       | 187 Average |
| 15  | 17238.000 | 48.21  | -25.79     | 74.00      | 83.68             | -11.11       | 9.44        | 33.80   | 100       | 0 Peak      |
| 16  | 17238.000 | 29.41  | -24.59     | 54.00      | 64.88             | -11.11       | 9.44        | 33.80   | 100       | 57 Average  |

Remark: #7 and #8 Fundamental Signal



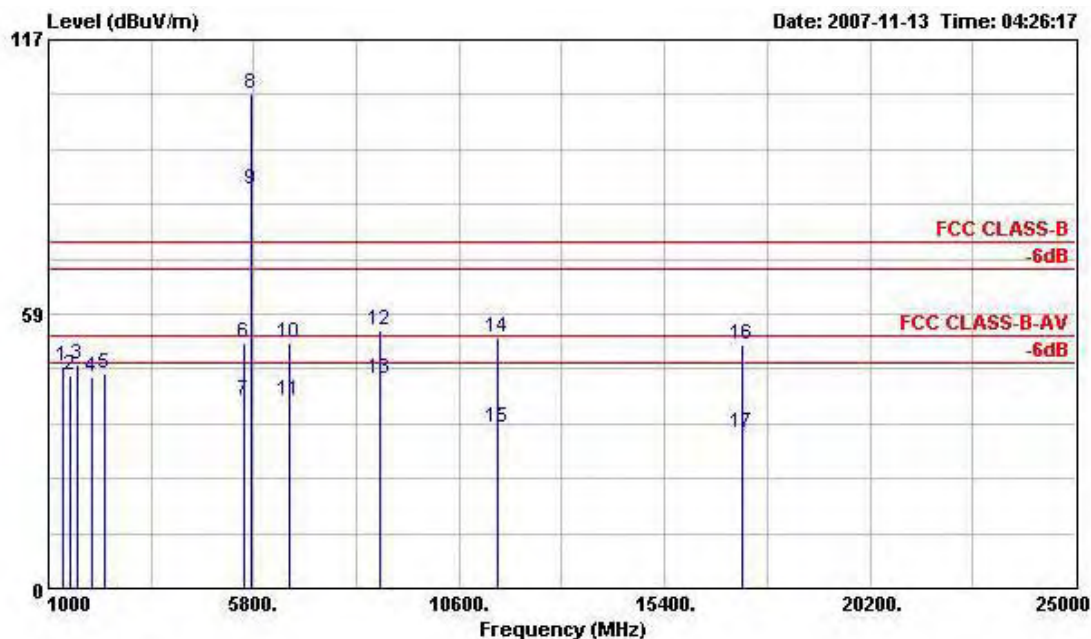
- Polarization : Vertical

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



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL  
 EUT : N/B  
 POWER : 120Vac/60Hz  
 MODEL : FR 701819  
 MEMO : 11n(a) Tx(20M)\_Ch149;5745MHz  
 Data Rate: 36

|   | Freq    | Level  | Over   | Limit  | ReadAntenna | Cable  | Preamp | Ant    | Table |            |
|---|---------|--------|--------|--------|-------------|--------|--------|--------|-------|------------|
|   | MHz     | dBuV/m | Limit  | Line   | Level       | Factor | Loss   | Factor | Pos   | Pos Remark |
|   |         |        | dB     | dBuV/m | dBuV        | dB/m   | dB     | dB     | cm    | deg        |
| 1 | 30.540  | 36.43  | -3.57  | 40.00  | 47.45       | 16.36  | 0.87   | 28.25  | 100   | 114 Peak   |
| 2 | 58.890  | 32.96  | -7.04  | 40.00  | 56.38       | 3.76   | 1.10   | 28.28  | ---   | --- Peak   |
| 3 | 267.330 | 31.87  | -14.13 | 46.00  | 44.94       | 12.48  | 2.12   | 27.67  | ---   | --- Peak   |
| 4 | 478.500 | 31.35  | -14.65 | 46.00  | 40.77       | 16.65  | 2.77   | 28.85  | ---   | --- Peak   |
| 5 | 556.900 | 29.73  | -16.27 | 46.00  | 37.18       | 18.59  | 3.02   | 29.06  | ---   | --- Peak   |
| 6 | 668.200 | 29.90  | -16.10 | 46.00  | 35.49       | 20.06  | 3.45   | 29.10  | ---   | --- Peak   |



Site : 03CH04-HY  
Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL  
EUT : N/B  
POWER : 120Vac/60Hz  
MODEL : FR 701819  
MEMO : 11ln(a) Tx(20M)\_Ch149;5745MHz  
Data Rate:36

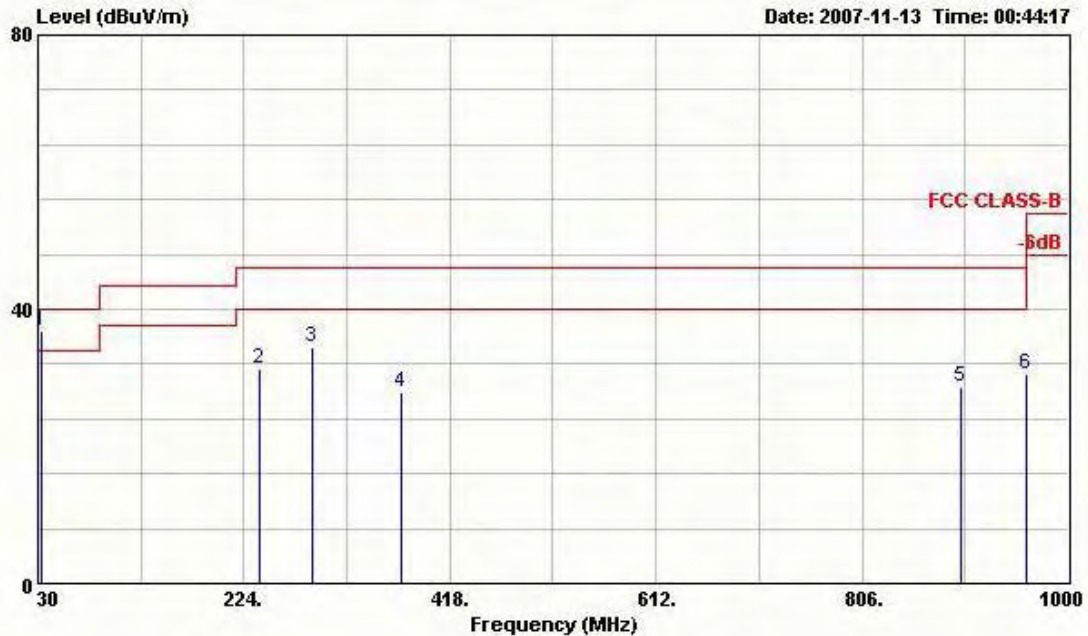
|     | Freq      | Level  | Over   | Limit  | ReadAntenna | Cable  | Preamp | Ant   | Table |             |
|-----|-----------|--------|--------|--------|-------------|--------|--------|-------|-------|-------------|
|     | MHz       | dBuV/m | Limit  | Line   | Level       | Loss   | Factor | Pos   | Pos   | Remark      |
|     | MHz       | dBuV/m | dB     | dBuV/m | dBuV        | dB/m   | dB     | dB    | cm    | deg         |
| 1   | 1332.000  | 47.33  | -26.67 | 74.00  | 53.78       | 24.90  | 2.60   | 33.95 | 100   | 0 Peak      |
| 2   | 1500.000  | 45.38  | -28.62 | 74.00  | 51.00       | 25.30  | 2.79   | 33.70 | 100   | 0 Peak      |
| 3   | 1662.000  | 47.84  | -26.16 | 74.00  | 52.64       | 25.93  | 2.97   | 33.70 | 100   | 0 Peak      |
| 4   | 1996.000  | 45.06  | -28.94 | 74.00  | 48.22       | 27.20  | 3.34   | 33.70 | 100   | 0 Peak      |
| 5   | 2326.000  | 45.85  | -28.15 | 74.00  | 48.03       | 27.92  | 3.66   | 33.77 | 100   | 0 Peak      |
| 6   | 5588.000  | 52.15  | -      | -      | 46.36       | 33.85  | 6.01   | 34.08 | 100   | 0 Peak      |
| 7   | 5588.000  | 39.84  | -      | -      | 34.05       | 33.85  | 6.01   | 34.08 | 100   | 324 Average |
| 8 @ | 5745.000  | 105.38 | 31.38  | 74.00  | 99.46       | 33.94  | 6.02   | 34.05 | 100   | 0 Peak      |
| 9 X | 5745.000  | 84.93  | 30.93  | 54.00  | 79.01       | 33.94  | 6.02   | 34.05 | 100   | 324 Average |
| 10  | 6644.000  | 52.46  | -21.54 | 74.00  | 44.54       | 34.48  | 6.24   | 32.79 | 100   | 0 Peak      |
| 11  | 6644.000  | 40.15  | -13.85 | 54.00  | 32.23       | 34.48  | 6.24   | 32.79 | 100   | 324 Average |
| 12  | 8734.000  | 55.03  | -18.97 | 74.00  | 44.70       | 37.78  | 7.13   | 34.58 | 100   | 0 Peak      |
| 13  | 8734.000  | 44.69  | -9.31  | 54.00  | 34.36       | 37.78  | 7.13   | 34.58 | 100   | 154 Average |
| 14  | 11490.000 | 53.35  | -20.65 | 74.00  | 91.53       | -11.73 | 7.84   | 34.30 | 100   | 0 Peak      |
| 15  | 11490.000 | 34.24  | -19.76 | 54.00  | 72.42       | -11.73 | 7.84   | 34.30 | 100   | 110 Average |
| 16  | 17229.000 | 52.06  | -21.94 | 74.00  | 87.51       | -11.07 | 9.42   | 33.81 | 100   | 0 Peak      |
| 17  | 17229.000 | 33.17  | -20.83 | 54.00  | 68.62       | -11.07 | 9.42   | 33.81 | 100   | 82 Average  |

Remark: #8 and #9 Fundamental Signal



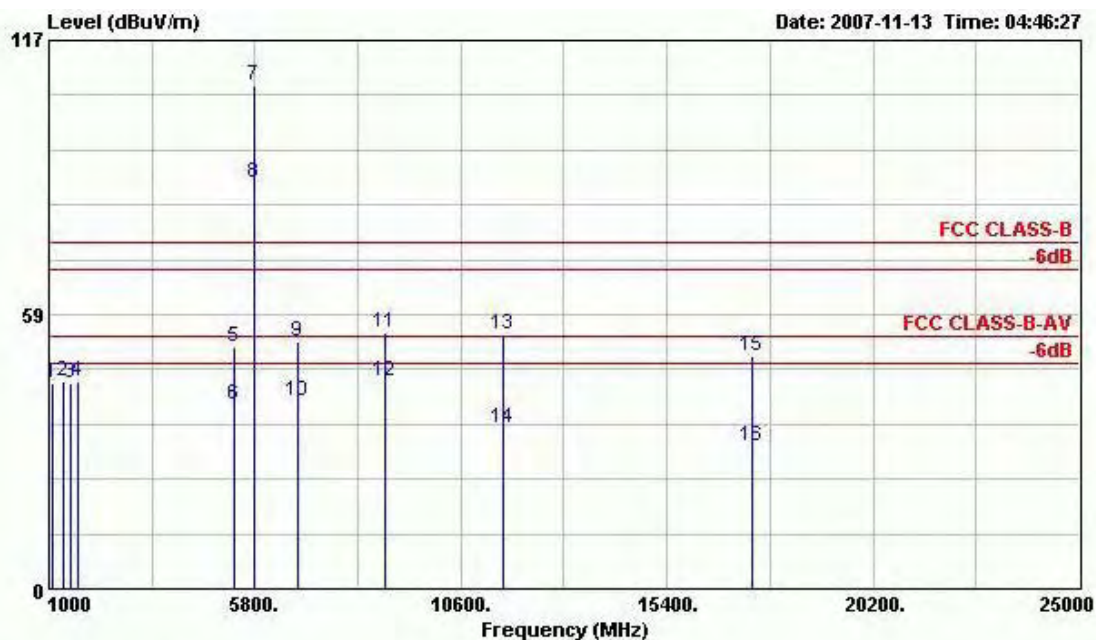
- Test Mode : Mode 14
- Polarization : Horizontal

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



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL  
 EUT : N/B  
 POWER : 120Vac/60Hz  
 MODEL : FR 701819  
 MEMO : 11n(a) Tx(20M)\_Ch157;5785MHz  
 Data Rate: 36

|     | Freq    | Level  | Over Limit | Limit Line | ReadAntenna Level | Antenna Factor | Cable Loss | Preamplifier Factor | Ant Pos | Table Pos | Remark |
|-----|---------|--------|------------|------------|-------------------|----------------|------------|---------------------|---------|-----------|--------|
|     | MHz     | dBuV/m | dB         | dBuV/m     | dBuV              | dB/m           | dB         | dB                  | cm      | deg       |        |
| 1 ! | 32.700  | 36.74  | -3.26      | 40.00      | 47.78             | 16.33          | 0.90       | 28.26               | 100     | 144       | Peak   |
| 2   | 239.250 | 31.35  | -14.65     | 46.00      | 45.30             | 11.76          | 2.01       | 27.72               | ---     | ---       | Peak   |
| 3   | 287.850 | 34.42  | -11.58     | 46.00      | 47.48             | 12.37          | 2.19       | 27.62               | ---     | ---       | Peak   |
| 4   | 372.100 | 27.79  | -18.21     | 46.00      | 38.60             | 14.81          | 2.48       | 28.11               | ---     | ---       | Peak   |
| 5   | 898.500 | 28.56  | -17.44     | 46.00      | 29.97             | 23.44          | 3.95       | 28.80               | ---     | ---       | Peak   |
| 6   | 960.100 | 30.45  | -23.55     | 54.00      | 30.11             | 25.04          | 3.99       | 28.68               | ---     | ---       | Peak   |



Site : 03CH04-HY  
Condition: FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL  
EUT : N/B  
POWER : 120Vac/60Hz  
MODEL : FR 701819  
MEMO : 11n(a) Tx(20M)\_Ch157;5785MHz  
Data Rate:36

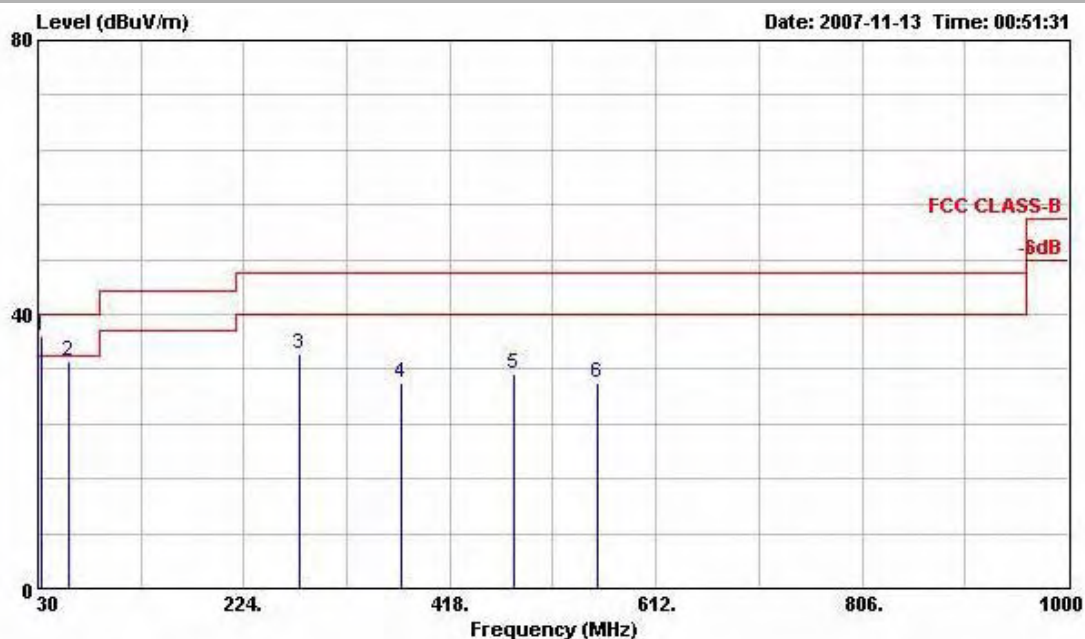
|     | Freq      | Level  | Over   | Limit  | ReadAntenna | Cable  | Preamp | Ant   | Table |             |
|-----|-----------|--------|--------|--------|-------------|--------|--------|-------|-------|-------------|
|     | MHz       | dBuV/m | Limit  | Line   | Level       | Loss   | Factor | Pos   | Pos   | Remark      |
|     |           |        | dB     | dBuV/m | dBuV        | dB/m   | dB     | dB    | cm    | deg         |
| 1   | 1094.000  | 43.69  | -30.31 | 74.00  | 51.35       | 24.27  | 2.34   | 34.26 | 100   | 0 Peak      |
| 2   | 1332.000  | 44.43  | -29.57 | 74.00  | 50.88       | 24.90  | 2.60   | 33.95 | 100   | 0 Peak      |
| 3   | 1500.000  | 43.99  | -30.01 | 74.00  | 49.61       | 25.30  | 2.79   | 33.70 | 100   | 0 Peak      |
| 4   | 1662.000  | 44.26  | -29.74 | 74.00  | 49.06       | 25.93  | 2.97   | 33.70 | 100   | 0 Peak      |
| 5   | 5302.000  | 51.68  | -22.32 | 74.00  | 46.29       | 33.56  | 6.00   | 34.17 | 100   | 0 Peak      |
| 6   | 5302.000  | 39.15  |        |        | 33.76       | 33.56  | 6.00   | 34.17 | 100   | 301 Average |
| 7 @ | 5785.000  | 107.29 | 33.29  | 74.00  | 101.34      | 33.97  | 6.02   | 34.04 | 100   | 0 Peak      |
| 8 @ | 5785.000  | 86.50  | 32.50  | 54.00  | 80.55       | 33.97  | 6.02   | 34.04 | 100   | 301 Average |
| 9   | 6820.000  | 52.79  | -21.21 | 74.00  | 44.32       | 34.82  | 6.30   | 32.65 | 100   | 0 Peak      |
| 10  | 6820.000  | 40.14  | -13.86 | 54.00  | 31.67       | 34.82  | 6.30   | 32.65 | 100   | 301 Average |
| 11  | 8822.000  | 54.83  | -19.17 | 74.00  | 44.43       | 37.88  | 7.18   | 34.66 | 100   | 0 Peak      |
| 12  | 8822.000  | 44.42  | -9.58  | 54.00  | 34.02       | 37.88  | 7.18   | 34.66 | 100   | 321 Average |
| 13  | 11565.000 | 54.44  | -19.56 | 74.00  | 92.45       | -11.54 | 7.85   | 34.32 | 100   | 0 Peak      |
| 14  | 11565.000 | 34.21  | -19.79 | 54.00  | 72.22       | -11.54 | 7.85   | 34.32 | 100   | 264 Average |
| 15  | 17361.000 | 49.54  | -24.46 | 74.00  | 85.36       | -11.61 | 9.54   | 33.75 | 100   | 0 Peak      |
| 16  | 17361.000 | 30.41  | -23.59 | 54.00  | 66.23       | -11.61 | 9.54   | 33.75 | 100   | 48 Average  |

Remark: #7 and #8 Fundamental Signal



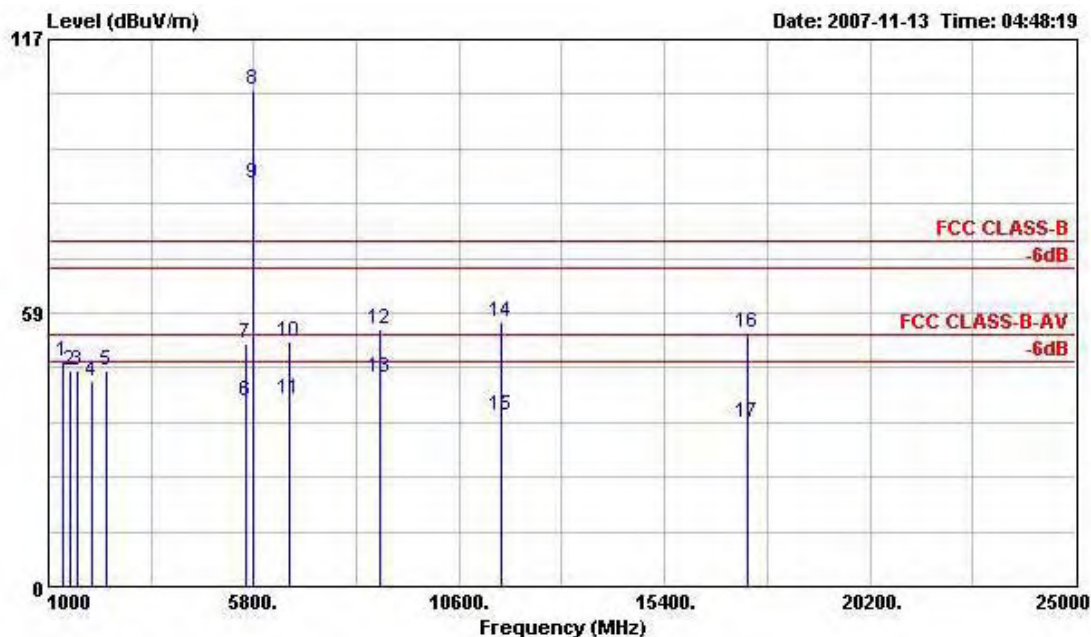
- Polarization : Vertical

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



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL  
 EUT : N/B  
 POWER : 120Vac/60Hz  
 MODEL : FR 701819  
 MEMO : 11n(a) Tx(20M)\_Ch157;5785MHz  
 Data Rate: 36

|   | Freq    | Level  | Over   | Limit  | ReadAntenna | Cable  | Preamp | Ant    | Table |            |
|---|---------|--------|--------|--------|-------------|--------|--------|--------|-------|------------|
|   | MHz     | dBuV/m | Limit  | Line   | Level       | Factor | Loss   | Factor | Pos   | Pos Remark |
|   |         |        | dB     | dBuV/m | dBuV        | dB/m   | dB     | dB     | cm    | deg        |
| 1 | 32.700  | 36.86  | -3.14  | 40.00  | 47.90       | 16.33  | 0.90   | 28.26  | 100   | 47 Peak    |
| 2 | 58.890  | 33.04  | -6.96  | 40.00  | 56.46       | 3.76   | 1.10   | 28.28  | ---   | ---        |
| 3 | 275.970 | 34.19  | -11.81 | 46.00  | 47.25       | 12.43  | 2.15   | 27.65  | ---   | ---        |
| 4 | 372.100 | 29.93  | -16.07 | 46.00  | 40.74       | 14.81  | 2.48   | 28.11  | ---   | ---        |
| 5 | 478.500 | 31.34  | -14.66 | 46.00  | 40.76       | 16.65  | 2.77   | 28.85  | ---   | ---        |
| 6 | 556.900 | 29.89  | -16.11 | 46.00  | 37.34       | 18.59  | 3.02   | 29.06  | ---   | ---        |



Site : 03CH04-HY  
Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL  
EUT : N/B  
POWER : 120Vac/60Hz  
MODEL : FR 701819  
MEMO : 11n(a) Tx(20M)\_Ch157;5785MHz  
Data Rate: 36

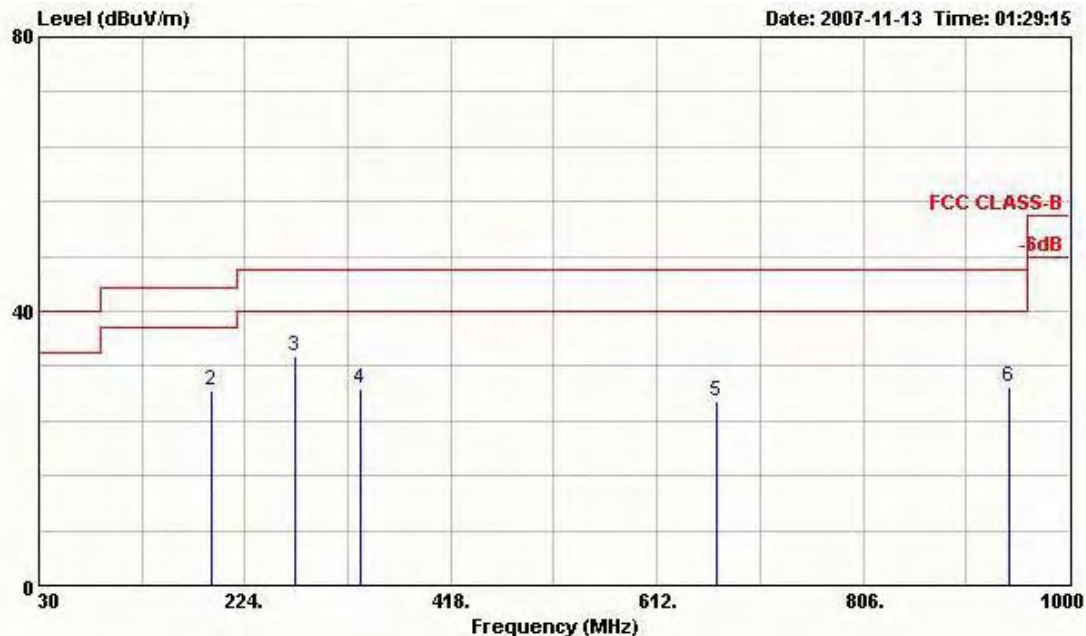
|     | Freq      | Level  | Over   | Limit  | ReadAntenna | Cable  | Preamp | Ant    | Table |             |
|-----|-----------|--------|--------|--------|-------------|--------|--------|--------|-------|-------------|
|     | MHz       | dBuV/m | Limit  | Line   | Level       | Factor | Loss   | Factor | Pos   | Remark      |
|     | MHz       | dBuV/m | dB     | dBuV/m | dBuV        | dB/m   | dB     | dB     | cm    | deg         |
| 1   | 1332.000  | 48.07  | -25.93 | 74.00  | 54.52       | 24.90  | 2.60   | 33.95  | 100   | 0 Peak      |
| 2   | 1500.000  | 46.28  | -27.72 | 74.00  | 51.90       | 25.30  | 2.79   | 33.70  | 100   | 0 Peak      |
| 3   | 1668.000  | 46.34  | -27.66 | 74.00  | 51.14       | 25.93  | 2.97   | 33.70  | 100   | 0 Peak      |
| 4   | 2004.000  | 43.90  | -30.10 | 74.00  | 47.06       | 27.20  | 3.34   | 33.70  | 100   | 0 Peak      |
| 5   | 2340.000  | 46.25  | -27.75 | 74.00  | 48.37       | 27.96  | 3.69   | 33.77  | 100   | 0 Peak      |
| 6   | 5622.000  | 39.51  | -34.49 | 74.00  | 33.70       | 33.87  | 6.02   | 34.08  | 102   | 4 Average   |
| 7   | 5622.000  | 52.00  | -21.99 | 74.00  | 46.19       | 33.87  | 6.02   | 34.08  | 100   | 0 Peak      |
| 8 X | 5785.000  | 106.08 | 32.08  | 74.00  | 100.13      | 33.97  | 6.02   | 34.04  | 100   | 0 Peak      |
| 9 @ | 5785.000  | 86.35  | 32.35  | 54.00  | 80.40       | 33.97  | 6.02   | 34.04  | 102   | 4 Average   |
| 10  | 6628.000  | 52.42  | -21.58 | 74.00  | 44.54       | 34.44  | 6.23   | 32.79  | 100   | 0 Peak      |
| 11  | 6628.000  | 40.05  | -13.95 | 54.00  | 32.17       | 34.44  | 6.23   | 32.79  | 102   | 4 Average   |
| 12  | 8726.000  | 55.13  | -18.87 | 74.00  | 44.82       | 37.76  | 7.13   | 34.58  | 100   | 0 Peak      |
| 13  | 8726.000  | 44.81  | -9.19  | 54.00  | 34.50       | 37.76  | 7.13   | 34.58  | 100   | 102 Average |
| 14  | 11562.000 | 56.54  | -17.46 | 74.00  | 94.55       | -11.54 | 7.85   | 34.32  | 100   | 0 Peak      |
| 15  | 11562.000 | 36.42  | -17.58 | 54.00  | 74.43       | -11.54 | 7.85   | 34.32  | 100   | 314 Average |
| 16  | 17358.000 | 54.27  | -19.73 | 74.00  | 90.10       | -11.61 | 9.54   | 33.76  | 100   | 0 Peak      |
| 17  | 17358.000 | 35.12  | -18.88 | 54.00  | 70.95       | -11.61 | 9.54   | 33.76  | 100   | 241 Average |

Remark: #8 and #9 Fundamental Signal



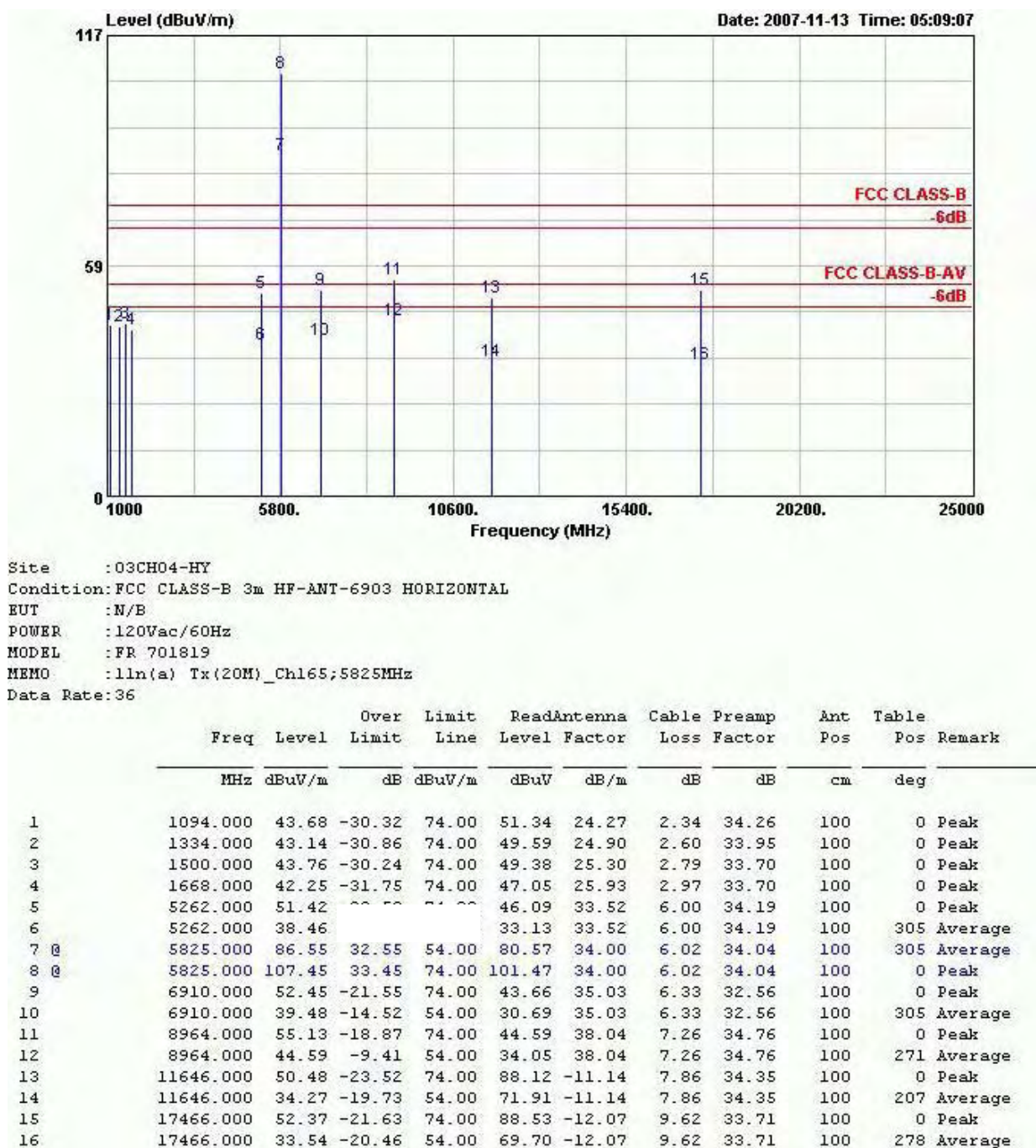
- Test Mode : Mode 15
- Polarization : Horizontal

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



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL  
 EUT : N/B  
 POWER : 120Vac/60Hz  
 MODEL : FR 701819  
 MEMO : 11n(a) Tx(20M)\_Ch165;5825MHz  
 Data Rate: 36

|     | Freq    | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table |          |
|-----|---------|--------|--------|--------|-------------|-------|--------|-------|-------|----------|
|     | MHz     | dBuV/m | Limit  | Line   | Level       | Loss  | Factor | Pos   | Pos   | Remark   |
|     | MHz     | dBuV/m | dB     | dBuV/m | dBuV        | dB/m  | dB     | dB    | cm    | deg      |
| 1 ! | 30.810  | 36.84  | -3.16  | 40.00  | 47.85       | 16.36 | 0.88   | 28.25 | 100   | 187 Peak |
| 2   | 192.540 | 28.40  | -15.10 | 43.50  | 45.54       | 8.85  | 1.84   | 27.83 | ---   | ---      |
| 3   | 270.570 | 33.36  | -12.64 | 46.00  | 46.43       | 12.46 | 2.13   | 27.66 | ---   | ---      |
| 4   | 332.900 | 28.65  | -17.35 | 46.00  | 40.69       | 13.45 | 2.35   | 27.83 | ---   | ---      |
| 5   | 668.200 | 26.90  | -19.10 | 46.00  | 32.49       | 20.06 | 3.45   | 29.10 | ---   | ---      |
| 6   | 943.300 | 28.91  | -17.09 | 46.00  | 29.02       | 24.62 | 3.98   | 28.71 | ---   | ---      |

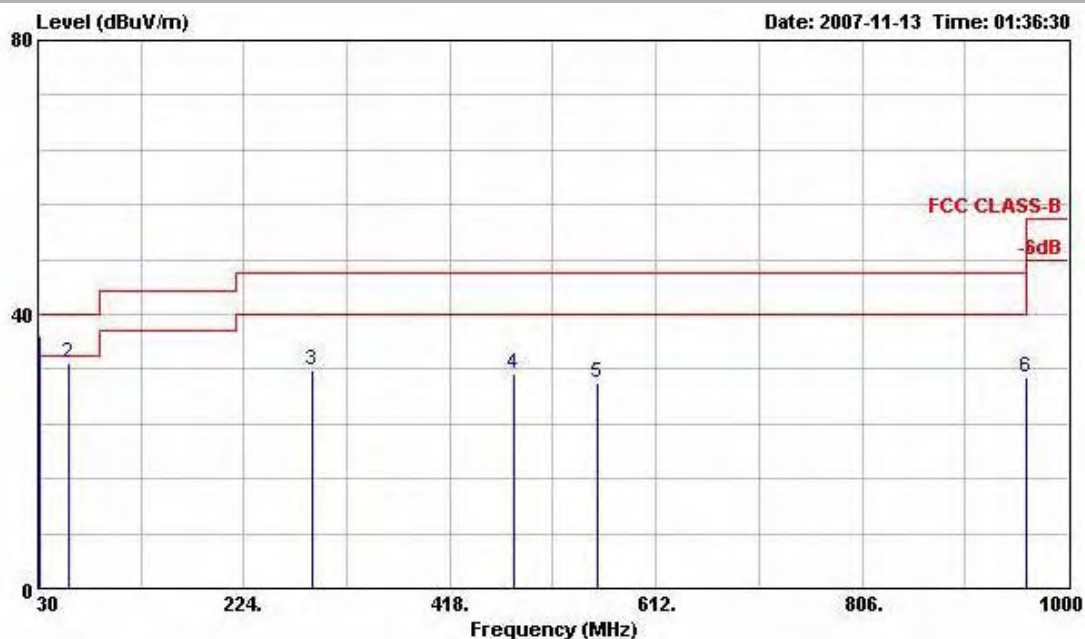


Remark: #7 and #8 Fundamental Signal



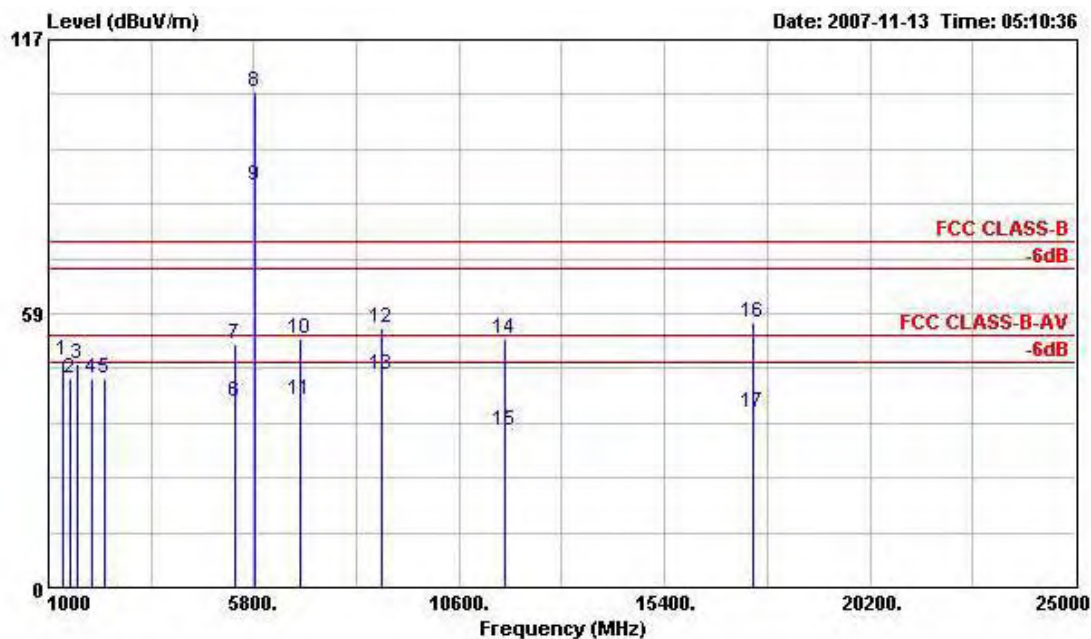
- Polarization : Vertical

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



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL  
 EUT : N/B  
 POWER : 120Vac/60Hz  
 MODEL : FR 701819  
 MEMO : 11n(a) Tx(20M)\_Ch165;5825MHz  
 Data Rate: 36

|     | Freq    | Level  | Over<br>Limit | Limit<br>Line | ReadAntenna<br>Level Factor | Cable<br>Loss | Preamp<br>Factor | Ant<br>Pos | Table<br>Pos | Remark   |      |
|-----|---------|--------|---------------|---------------|-----------------------------|---------------|------------------|------------|--------------|----------|------|
|     | MHz     | dBuV/m | dB            | dBuV/m        | dBuV                        | dB/m          | dB               | dB         | cm           | deg      |      |
| 1 ! | 31.890  | 36.76  | -3.24         | 40.00         | 47.79                       | 16.34         | 0.89             | 28.26      | 100          | 173 Peak |      |
| 2   | 58.890  | 33.01  | -6.99         | 40.00         | 56.43                       | 3.76          | 1.10             | 28.28      | ---          | ---      | Peak |
| 3   | 287.850 | 31.94  | -14.06        | 46.00         | 45.00                       | 12.37         | 2.19             | 27.62      | ---          | ---      | Peak |
| 4   | 478.500 | 31.24  | -14.76        | 46.00         | 40.66                       | 16.65         | 2.77             | 28.85      | ---          | ---      | Peak |
| 5   | 556.900 | 30.07  | -15.93        | 46.00         | 37.52                       | 18.59         | 3.02             | 29.06      | ---          | ---      | Peak |
| 6   | 960.100 | 30.71  | -23.29        | 54.00         | 30.37                       | 25.04         | 3.99             | 28.68      | ---          | ---      | Peak |



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL  
 EUT : N/B  
 POWER : 120Vac/60Hz  
 MODEL : FR 701819  
 MEMO : 11n(a) Tx(20M)\_Ch165;5825MHz  
 Data Rate: 36

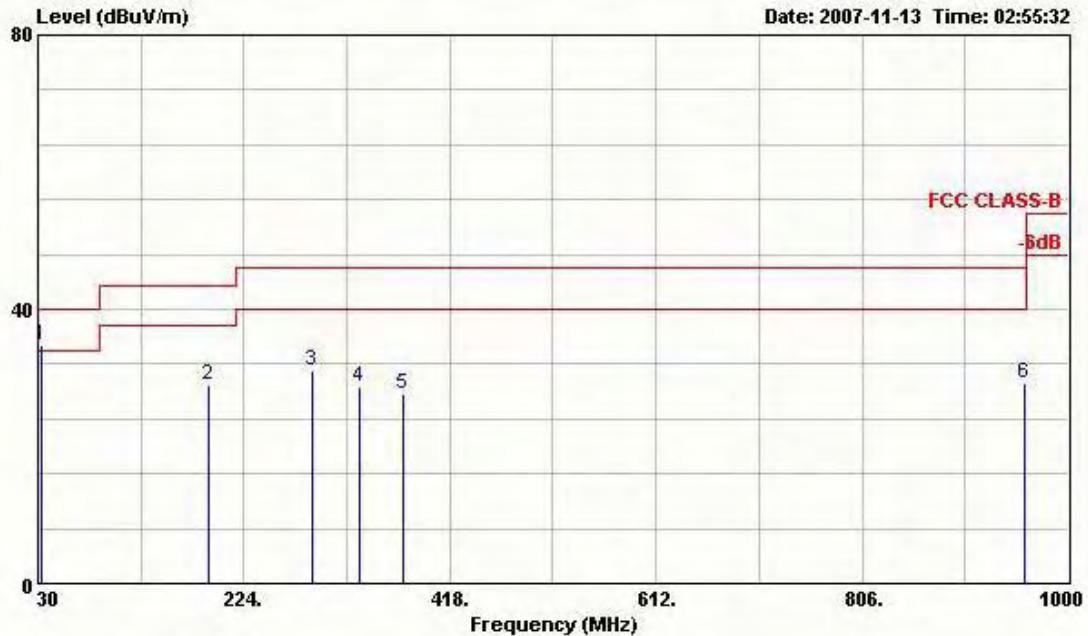
|     | Freq      | Level  | Over   | Limit  | ReadAntenna | Cable  | Preamp | Ant   | Table |             |
|-----|-----------|--------|--------|--------|-------------|--------|--------|-------|-------|-------------|
|     | MHz       | dBuV/m | Limit  | Line   | Level       | Loss   | Factor | Pos   | Pos   | Remark      |
|     |           |        | dB     | dBuV/m | dBuV        | dB/m   | dB     | dB    | cm    | deg         |
| 1   | 1332.000  | 48.51  | -25.49 | 74.00  | 54.96       | 24.90  | 2.60   | 33.95 | 100   | 0 Peak      |
| 2   | 1500.000  | 44.68  | -29.32 | 74.00  | 50.30       | 25.30  | 2.79   | 33.70 | 100   | 0 Peak      |
| 3   | 1662.000  | 47.90  | -26.10 | 74.00  | 52.70       | 25.93  | 2.97   | 33.70 | 100   | 0 Peak      |
| 4   | 2004.000  | 44.58  | -29.42 | 74.00  | 47.74       | 27.20  | 3.34   | 33.70 | 100   | 0 Peak      |
| 5   | 2332.000  | 44.75  | -29.25 | 74.00  | 46.91       | 27.92  | 3.69   | 33.77 | 100   | 0 Peak      |
| 6   | 5350.000  | 39.48  | -34.52 | 74.00  | 34.01       | 33.62  | 6.00   | 34.15 | 102   | 4 Average   |
| 7   | 5350.000  | 52.14  | -21.86 | 74.00  | 46.67       | 33.62  | 6.00   | 34.15 | 100   | 0 Peak      |
| 8 @ | 5825.000  | 105.87 | 31.87  | 74.00  | 99.89       | 34.00  | 6.02   | 34.04 | 100   | 0 Peak      |
| 9 X | 5825.000  | 85.79  | 31.79  | 54.00  | 79.81       | 34.00  | 6.02   | 34.04 | 102   | 4 Average   |
| 10  | 6894.000  | 53.03  | -20.97 | 74.00  | 44.29       | 34.99  | 6.33   | 32.58 | 100   | 0 Peak      |
| 11  | 6894.000  | 40.12  | -13.88 | 54.00  | 31.38       | 34.99  | 6.33   | 32.58 | 102   | 4 Average   |
| 12  | 8774.000  | 55.59  | -18.41 | 74.00  | 45.23       | 37.82  | 7.16   | 34.62 | 100   | 0 Peak      |
| 13  | 8774.000  | 45.23  | -8.77  | 54.00  | 34.87       | 37.82  | 7.16   | 34.62 | 100   | 318 Average |
| 14  | 11658.000 | 53.09  | -20.91 | 74.00  | 90.69       | -11.10 | 7.86   | 34.36 | 100   | 0 Peak      |
| 15  | 11658.000 | 33.54  | -20.46 | 54.00  | 71.14       | -11.10 | 7.86   | 34.36 | 100   | 177 Average |
| 16  | 17478.000 | 56.39  | -17.61 | 74.00  | 92.57       | -12.12 | 9.64   | 33.71 | 100   | 0 Peak      |
| 17  | 17478.000 | 37.14  | -16.86 | 54.00  | 73.32       | -12.12 | 9.64   | 33.71 | 100   | 133 Average |

Remark: #8 and #9 Fundamental Signal



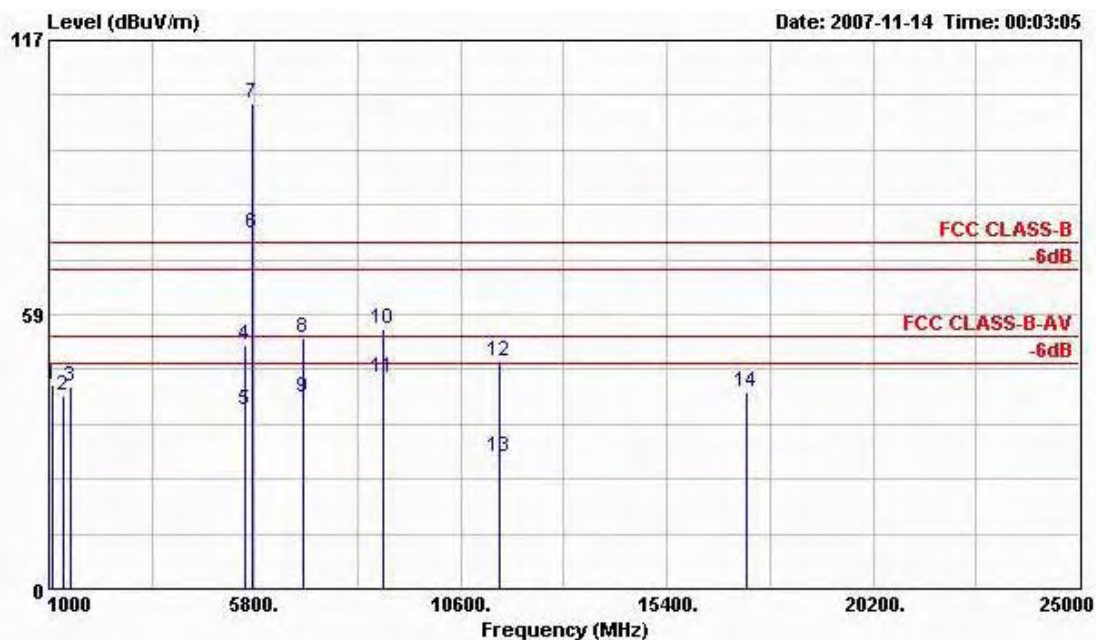
- Test Mode : Mode 16
- Polarization : Horizontal

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



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL  
 EUT : N/B  
 POWER : 120Vac/60Hz  
 MODEL : FR 701819  
 MEMO : 11n(a) Tx(40M)\_Ch151;5755MHz  
 Data Rate: 54

|     | Freq    | Level  | Over Limit | Limit Line | ReadAntenna Level | Antenna Factor | Cable Loss | Preamplifier | Ant Pos | Table Pos | Remark |
|-----|---------|--------|------------|------------|-------------------|----------------|------------|--------------|---------|-----------|--------|
|     | MHz     | dBuV/m | dB         | dBuV/m     | dBuV              | dB/m           | dB         | dB           | cm      | deg       |        |
| 1 ! | 32.970  | 34.73  | -5.27      | 40.00      | 45.77             | 16.33          | 0.90       | 28.26        | 100     | 285       | Peak   |
| 2   | 190.650 | 29.01  | -14.49     | 43.50      | 46.13             | 8.88           | 1.84       | 27.84        | ---     | ---       | Peak   |
| 3   | 287.850 | 31.15  | -14.85     | 46.00      | 44.21             | 12.37          | 2.19       | 27.62        | ---     | ---       | Peak   |
| 4   | 332.200 | 28.58  | -17.42     | 46.00      | 40.61             | 13.45          | 2.35       | 27.82        | ---     | ---       | Peak   |
| 5   | 374.200 | 27.52  | -18.48     | 46.00      | 38.27             | 14.88          | 2.49       | 28.12        | ---     | ---       | Peak   |
| 6   | 959.400 | 29.32  | -16.68     | 46.00      | 29.00             | 25.01          | 3.99       | 28.68        | ---     | ---       | Peak   |



Site : 03CH04-HY  
Condition: FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL  
EUT : N/B  
POWER : 120Vac/60Hz  
MODEL : FR 701819  
MEMO : 11n(a) Tx(40M)\_Ch151;5755MHz  
Data Rate: 54

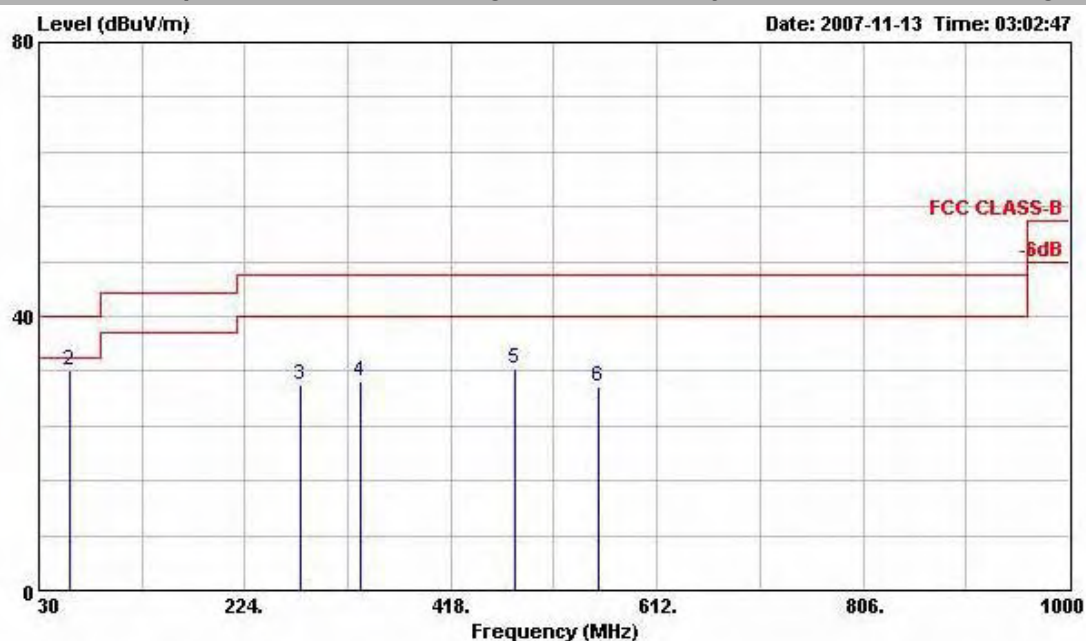
|     | Freq      | Level  | Over   | Limit  | ReadAntenna | Cable  | Preamp | Ant    | Table |             |
|-----|-----------|--------|--------|--------|-------------|--------|--------|--------|-------|-------------|
|     | MHz       | dBuV/m | Limit  | Line   | Level       | Factor | Loss   | Factor | Pos   | Pos Remark  |
|     |           |        | dB     | dBuV/m | dBuV        | dB/m   | dB     | dB     | cm    | deg         |
| 1   | 1100.000  | 43.65  | -30.35 | 74.00  | 51.31       | 24.27  | 2.34   | 34.26  | 100   | 0 Peak      |
| 2   | 1332.000  | 41.05  | -32.95 | 74.00  | 47.50       | 24.90  | 2.60   | 33.95  | 100   | 0 Peak      |
| 3   | 1500.000  | 43.17  | -30.83 | 74.00  | 48.79       | 25.30  | 2.79   | 33.70  | 100   | 0 Peak      |
| 4   | 5558.000  | 52.07  | -21.93 | 74.00  | 46.31       | 33.83  | 6.01   | 34.09  | 100   | 0 Peak      |
| 5   | 5558.000  | 38.01  |        |        | 32.25       | 33.83  | 6.01   | 34.09  | 100   | 304 Average |
| 6 X | 5755.000  | 76.00  | 22.00  | 54.00  | 70.07       | 33.96  | 6.02   | 34.05  | 100   | 304 Average |
| 7 @ | 5755.000  | 103.48 | 29.48  | 74.00  | 97.55       | 33.96  | 6.02   | 34.05  | 100   | 0 Peak      |
| 8   | 6942.000  | 53.37  | -20.63 | 74.00  | 44.47       | 35.10  | 6.34   | 32.54  | 100   | 0 Peak      |
| 9   | 6942.000  | 40.67  | -13.33 | 54.00  | 31.77       | 35.10  | 6.34   | 32.54  | 100   | 304 Average |
| 10  | 8772.000  | 55.45  | -18.55 | 74.00  | 45.09       | 37.82  | 7.16   | 34.62  | 100   | 0 Peak      |
| 11  | 8772.000  | 45.09  | -8.91  | 54.00  | 34.73       | 37.82  | 7.16   | 34.62  | 100   | 165 Average |
| 12  | 11514.000 | 48.43  | -25.57 | 74.00  | 86.64       | -11.76 | 7.85   | 34.30  | 100   | 0 Peak      |
| 13  | 11514.000 | 28.14  | -25.86 | 54.00  | 66.35       | -11.76 | 7.85   | 34.30  | 100   | 314 Average |
| 14  | 17265.000 | 41.93  | -32.07 | 74.00  | 77.45       | -11.19 | 9.46   | 33.79  | 100   | 0 Peak      |

Remark: #6 and #7 Fundamental Signal



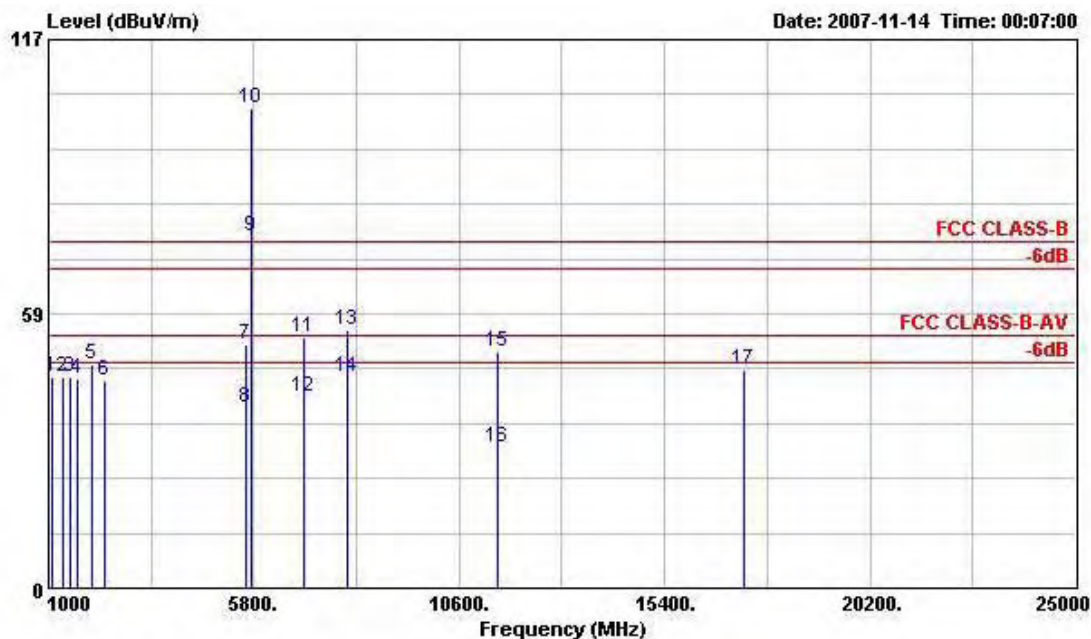
- Polarization : Vertical

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



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL  
 EUT : N/B  
 POWER : 120Vac/60Hz  
 MODEL : FR 701819  
 MEMO : 11n(a) Tx(40M)\_Ch151;5755MHz  
 Data Rate: 54

|   | Freq    | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table |          |
|---|---------|--------|--------|--------|-------------|-------|--------|-------|-------|----------|
|   | MHz     | dBuV/m | Limit  | Line   | Level       | Loss  | Factor | Pos   | Pos   | Remark   |
|   |         |        | dB     | dBuV/m | dBuV        | dB/m  | dB     | dB    | cm    | deg      |
| 1 | 30.810  | 36.43  | -3.57  | 40.00  | 47.44       | 16.36 | 0.88   | 28.25 | 100   | 196 Peak |
| 2 | 58.890  | 32.16  | -7.84  | 40.00  | 55.58       | 3.76  | 1.10   | 28.28 | ---   | ---      |
| 3 | 275.970 | 30.10  | -15.90 | 46.00  | 43.16       | 12.43 | 2.15   | 27.65 | ---   | ---      |
| 4 | 332.200 | 30.49  | -15.51 | 46.00  | 42.52       | 13.45 | 2.35   | 27.82 | ---   | ---      |
| 5 | 478.500 | 32.47  | -13.53 | 46.00  | 41.89       | 16.65 | 2.77   | 28.85 | ---   | ---      |
| 6 | 556.900 | 29.61  | -16.39 | 46.00  | 37.06       | 18.59 | 3.02   | 29.06 | ---   | ---      |



Site : 03CH04-HY  
Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL  
EUT : N/B  
POWER : 120Vac/60Hz  
MODEL : FR 701819  
MEMO : 11n(a) Tx(40M)\_Ch151;5755MHz  
Data Rate: 54

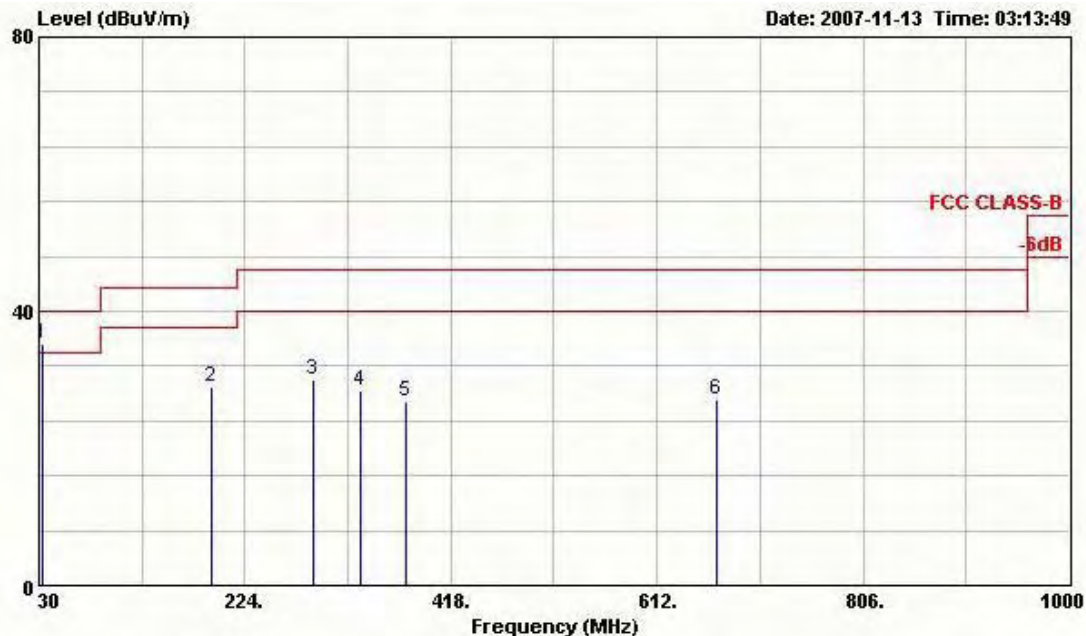
|      | Freq      | Level  | Over   | Limit  | ReadAntenna | Cable  | Preamp | Ant   | Table |             |
|------|-----------|--------|--------|--------|-------------|--------|--------|-------|-------|-------------|
|      | MHz       | dBuV/m | Limit  | Line   | Level       | Loss   | Factor | Pos   | Pos   | Remark      |
|      |           |        | dB     | dBuV/m | dBuV        | dB/m   | dB     | dB    | cm    | deg         |
| 1    | 1100.000  | 44.92  | -29.08 | 74.00  | 52.58       | 24.27  | 2.34   | 34.26 | 100   | 0 Peak      |
| 2    | 1332.000  | 44.97  | -29.03 | 74.00  | 51.42       | 24.90  | 2.60   | 33.95 | 100   | 0 Peak      |
| 3    | 1500.000  | 45.03  | -28.97 | 74.00  | 50.65       | 25.30  | 2.79   | 33.70 | 100   | 0 Peak      |
| 4    | 1668.000  | 44.56  | -29.44 | 74.00  | 49.36       | 25.93  | 2.97   | 33.70 | 100   | 0 Peak      |
| 5    | 1996.000  | 47.56  | -26.44 | 74.00  | 50.72       | 27.20  | 3.34   | 33.70 | 100   | 0 Peak      |
| 6    | 2332.000  | 44.09  | -29.91 | 74.00  | 46.25       | 27.92  | 3.69   | 33.77 | 100   | 0 Peak      |
| 7    | 5622.000  | 51.99  | -22.01 | 74.00  | 46.18       | 33.87  | 6.02   | 34.08 | 100   | 0 Peak      |
| 8    | 5622.000  | 38.32  |        |        | 32.51       | 33.87  | 6.02   | 34.08 | 100   | 327 Average |
| 9 X  | 5755.000  | 75.17  | 21.17  | 54.00  | 69.24       | 33.96  | 6.02   | 34.05 | 100   | 327 Average |
| 10 @ | 5755.000  | 102.23 | 28.23  | 74.00  | 96.30       | 33.96  | 6.02   | 34.05 | 100   | 0 Peak      |
| 11   | 6974.000  | 53.41  | -20.59 | 74.00  | 44.45       | 35.13  | 6.35   | 32.52 | 100   | 0 Peak      |
| 12   | 6974.000  | 40.81  | -13.19 | 54.00  | 31.85       | 35.13  | 6.35   | 32.52 | 100   | 327 Average |
| 13   | 7982.000  | 55.07  | -18.93 | 74.00  | 45.14       | 36.79  | 6.75   | 33.61 | 100   | 0 Peak      |
| 14   | 7982.000  | 45.14  | -8.86  | 54.00  | 35.21       | 36.79  | 6.75   | 33.61 | 100   | 47 Average  |
| 15   | 11514.000 | 50.25  | -23.75 | 74.00  | 88.46       | -11.76 | 7.85   | 34.30 | 100   | 0 Peak      |
| 16   | 11514.000 | 30.02  | -23.98 | 54.00  | 68.23       | -11.76 | 7.85   | 34.30 | 100   | 178 Average |
| 17   | 17262.000 | 46.39  | -27.61 | 74.00  | 81.91       | -11.19 | 9.46   | 33.79 | 100   | 0 Peak      |

Remark: #3 and #4 Fundamental Signal



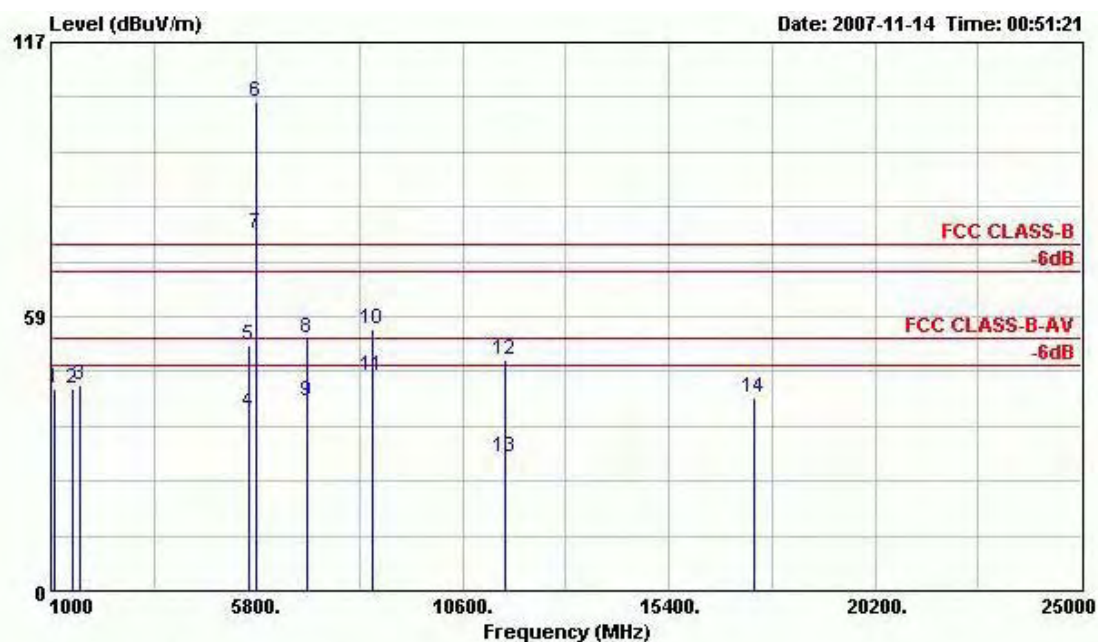
- Test Mode : Mode 17
- Polarization : Horizontal

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



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL  
 EUT : N/B  
 POWER : 120Vac/60Hz  
 MODEL : FR 701819  
 MEMO : 11n(a) Tx(40M)\_Ch159;5795MHz  
 Data Rate: 54

|     | Freq    | Level  | Over<br>Limit | Limit<br>Line | ReadAntenna<br>Level | Antenna<br>Factor | Cable<br>Loss | Preamp<br>Factor | Ant<br>Pos | Table<br>Pos | Remark |
|-----|---------|--------|---------------|---------------|----------------------|-------------------|---------------|------------------|------------|--------------|--------|
|     | MHz     | dBuV/m | dB            | dBuV/m        | dBuV                 | dB/m              | dB            | dB               | cm         | deg          |        |
| 1 ! | 32.970  | 35.15  | -4.85         | 40.00         | 46.19                | 16.33             | 0.90          | 28.26            | 100        | 51           | Peak   |
| 2   | 192.540 | 28.88  | -14.62        | 43.50         | 46.02                | 8.85              | 1.84          | 27.83            | ---        | ---          | Peak   |
| 3   | 287.850 | 30.07  | -15.93        | 46.00         | 43.13                | 12.37             | 2.19          | 27.62            | ---        | ---          | Peak   |
| 4   | 332.200 | 28.34  | -17.66        | 46.00         | 40.37                | 13.45             | 2.35          | 27.82            | ---        | ---          | Peak   |
| 5   | 374.900 | 26.72  | -19.28        | 46.00         | 37.44                | 14.92             | 2.49          | 28.13            | ---        | ---          | Peak   |
| 6   | 668.200 | 27.09  | -18.91        | 46.00         | 32.68                | 20.06             | 3.45          | 29.10            | ---        | ---          | Peak   |



Site : 03CH04-HY  
Condition: FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL  
EUT : N/B  
POWER : 120Vac/60Hz  
MODEL : FR 701819  
MEMO : 11n(a) Tx(40M)\_Ch159;5795MHz  
Data Rate: 54

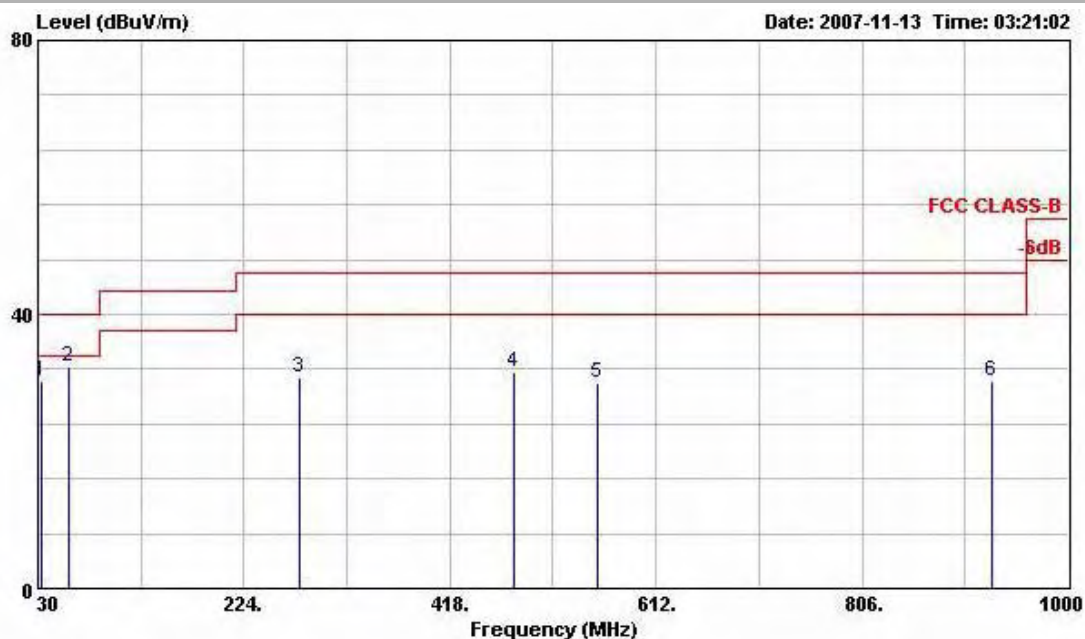
|     | Freq      | Level  | Over Limit | Limit Line | ReadAntenna Level | Cable Factor | Preamp Loss | Ant Pos | Table Pos | Remark      |
|-----|-----------|--------|------------|------------|-------------------|--------------|-------------|---------|-----------|-------------|
|     | MHz       | dBuV/m | dB         | dBuV/m     | dBuV              | dB/m         | dB          | cm      | deg       |             |
| 1   | 1086.000  | 42.93  | -31.07     | 74.00      | 50.67             | 24.22        | 2.34        | 34.30   | 100       | 0 Peak      |
| 2   | 1500.000  | 43.14  | -30.86     | 74.00      | 48.76             | 25.30        | 2.79        | 33.70   | 100       | 0 Peak      |
| 3   | 1668.000  | 44.04  | -29.96     | 74.00      | 48.84             | 25.93        | 2.97        | 33.70   | 100       | 0 Peak      |
| 4   | 5622.000  | 38.15  | -35.85     | 74.00      | 32.34             | 33.87        | 6.02        | 34.08   | 100       | 303 Average |
| 5   | 5622.000  | 52.27  |            |            | 46.46             | 33.87        | 6.02        | 34.08   | 100       | 0 Peak      |
| 6 @ | 5795.000  | 104.43 | 30.43      | 74.00      | 98.47             | 33.98        | 6.02        | 34.04   | 100       | 0 Peak      |
| 7 X | 5795.000  | 76.04  | 22.04      | 54.00      | 70.08             | 33.98        | 6.02        | 34.04   | 100       | 303 Average |
| 8   | 6964.000  | 53.88  | -20.12     | 74.00      | 44.93             | 35.13        | 6.34        | 32.52   | 100       | 0 Peak      |
| 9   | 6964.000  | 40.59  | -33.41     | 54.00      | 31.64             | 35.13        | 6.34        | 32.52   | 100       | 303 Average |
| 10  | 8508.000  | 55.76  | -18.24     | 74.00      | 45.62             | 37.52        | 7.02        | 34.40   | 100       | 0 Peak      |
| 11  | 8508.000  | 45.61  | -28.39     | 54.00      | 35.47             | 37.52        | 7.02        | 34.40   | 100       | 188 Average |
| 12  | 11586.000 | 49.15  | -24.85     | 74.00      | 87.03             | -11.40       | 7.85        | 34.33   | 100       | 0 Peak      |
| 13  | 11586.000 | 28.54  | -45.46     | 54.00      | 66.42             | -11.40       | 7.85        | 34.33   | 100       | 187 Average |
| 14  | 17397.000 | 41.24  | -32.76     | 74.00      | 77.20             | -11.78       | 9.56        | 33.74   | 100       | 0 Peak      |

Remark: #6 and #7 Fundamental Signal



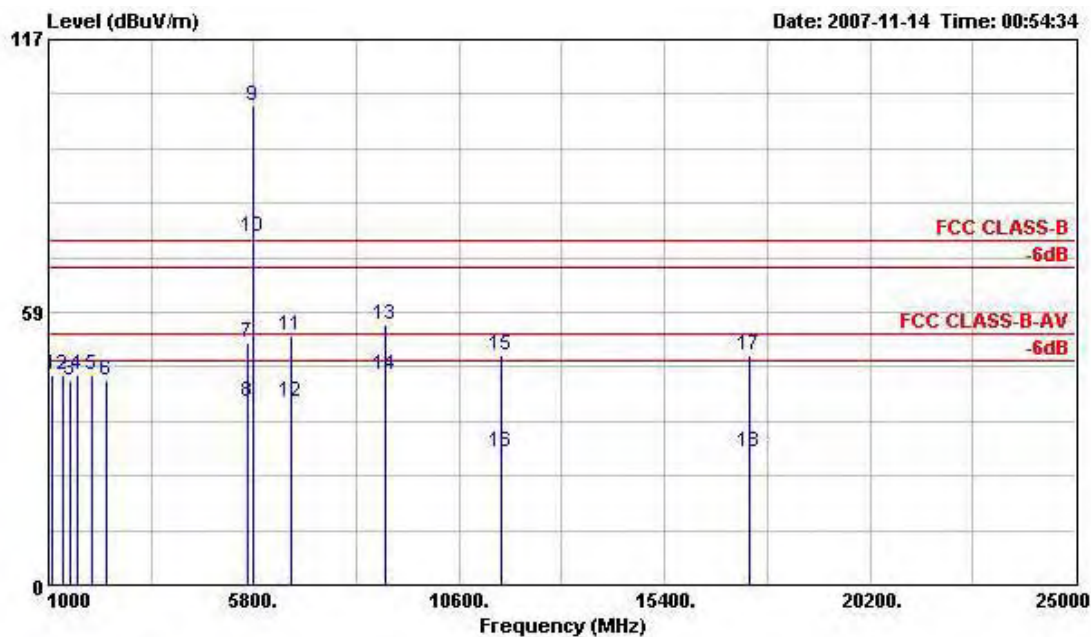
- Polarization : Vertical

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



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL  
 EUT : N/B  
 POWER : 120Vac/60Hz  
 MODEL : FR 701819  
 MEMO : 11n(a) Tx(40M)\_Ch159;5795MHz  
 Data Rate: 54

|   | Freq    | Level  | Over<br>Limit | Limit<br>Line | ReadAntenna<br>Level Factor | Cable<br>Loss | Preamp<br>Factor | Ant<br>Pos | Table<br>Pos | Remark |      |
|---|---------|--------|---------------|---------------|-----------------------------|---------------|------------------|------------|--------------|--------|------|
|   | MHz     | dBuV/m | dB            | dBuV/m        | dBuV                        | dB/m          | dB               | dB         | cm           | deg    |      |
| 1 | 32.700  | 30.22  | -9.78         | 40.00         | 41.26                       | 16.33         | 0.90             | 28.26      | ---          | ---    | Peak |
| 2 | 58.890  | 32.32  | -7.68         | 40.00         | 55.74                       | 3.76          | 1.10             | 28.28      | 100          | 236    | Peak |
| 3 | 275.970 | 30.84  | -15.16        | 46.00         | 43.90                       | 12.43         | 2.15             | 27.65      | ---          | ---    | Peak |
| 4 | 478.500 | 31.49  | -14.51        | 46.00         | 40.91                       | 16.65         | 2.77             | 28.85      | ---          | ---    | Peak |
| 5 | 556.900 | 30.11  | -15.89        | 46.00         | 37.56                       | 18.59         | 3.02             | 29.06      | ---          | ---    | Peak |
| 6 | 928.600 | 30.15  | -15.85        | 46.00         | 30.70                       | 24.23         | 3.97             | 28.74      | ---          | ---    | Peak |



Site : 03CH04-HY  
Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL  
EUT : N/B  
POWER : 120Vac/60Hz  
MODEL : FR 701819  
MEMO : 11n(a) Tx(40M)\_Ch159;5795MHz  
Data Rate: 54

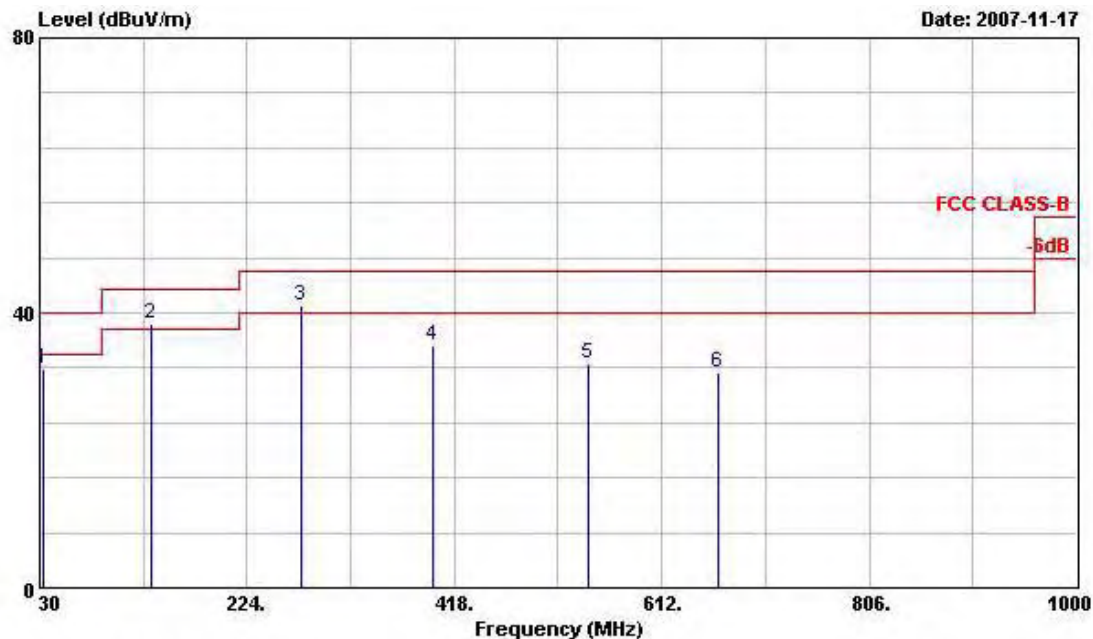
|      | Freq      | Level  | Over   | Limit  | ReadAntenna | Cable  | Preamp | Ant   | Table |             |
|------|-----------|--------|--------|--------|-------------|--------|--------|-------|-------|-------------|
|      | MHz       | dBuV/m | Limit  | Line   | Level       | Loss   | Factor | Pos   | Pos   | Remark      |
|      | MHz       | dBuV/m | dB     | dBuV/m | dBuV        | dB/m   | dB     | dB    | cm    | deg         |
| 1    | 1100.000  | 45.19  | -28.81 | 74.00  | 52.85       | 24.27  | 2.34   | 34.26 | 100   | 0 Peak      |
| 2    | 1326.000  | 45.06  | -28.94 | 74.00  | 51.55       | 24.85  | 2.60   | 33.95 | 100   | 0 Peak      |
| 3    | 1500.000  | 43.90  | -30.10 | 74.00  | 49.52       | 25.30  | 2.79   | 33.70 | 100   | 0 Peak      |
| 4    | 1662.000  | 44.91  | -29.09 | 74.00  | 49.71       | 25.93  | 2.97   | 33.70 | 100   | 0 Peak      |
| 5    | 1998.000  | 45.05  | -28.95 | 74.00  | 48.21       | 27.20  | 3.34   | 33.70 | 100   | 0 Peak      |
| 6    | 2334.000  | 43.85  | -30.15 | 74.00  | 46.01       | 27.92  | 3.69   | 33.77 | 100   | 0 Peak      |
| 7    | 5638.000  | 52.05  | -      | -      | 46.22       | 33.88  | 6.02   | 34.07 | 100   | 0 Peak      |
| 8    | 5638.000  | 39.22  | -      | -      | 33.26       | 33.98  | 6.02   | 34.04 | 100   | 327 Average |
| 9 @  | 5795.000  | 102.57 | 28.57  | 74.00  | 96.61       | 33.98  | 6.02   | 34.04 | 100   | 0 Peak      |
| 10 X | 5795.000  | 74.68  | 20.68  | 54.00  | 68.72       | 33.98  | 6.02   | 34.04 | 100   | 327 Average |
| 11   | 6686.000  | 53.32  | -20.68 | 74.00  | 45.27       | 34.54  | 6.26   | 32.75 | 100   | 0 Peak      |
| 12   | 6686.000  | 39.41  | -14.59 | 54.00  | 31.36       | 34.54  | 6.26   | 32.75 | 100   | 327 Average |
| 13   | 8876.000  | 55.65  | -18.35 | 74.00  | 45.20       | 37.94  | 7.21   | 34.70 | 100   | 0 Peak      |
| 14   | 8876.000  | 45.20  | -8.80  | 54.00  | 34.75       | 37.94  | 7.21   | 34.70 | 100   | 175 Average |
| 15   | 11586.000 | 49.25  | -24.75 | 74.00  | 87.13       | -11.40 | 7.85   | 34.33 | 100   | 0 Peak      |
| 16   | 11586.000 | 28.31  | -25.69 | 54.00  | 66.19       | -11.40 | 7.85   | 34.33 | 100   | 247 Average |
| 17   | 17394.000 | 49.11  | -24.89 | 74.00  | 85.02       | -11.74 | 9.56   | 33.74 | 100   | 0 Peak      |
| 18   | 17394.000 | 28.51  | -25.49 | 54.00  | 64.42       | -11.74 | 9.56   | 33.74 | 100   | 277 Average |

Remark: #3 and #4 Fundamental Signal



- Test Mode : Mode 18
- Polarization : Horizontal

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



Site : 03CH04-HY

Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL

EUT : N/B

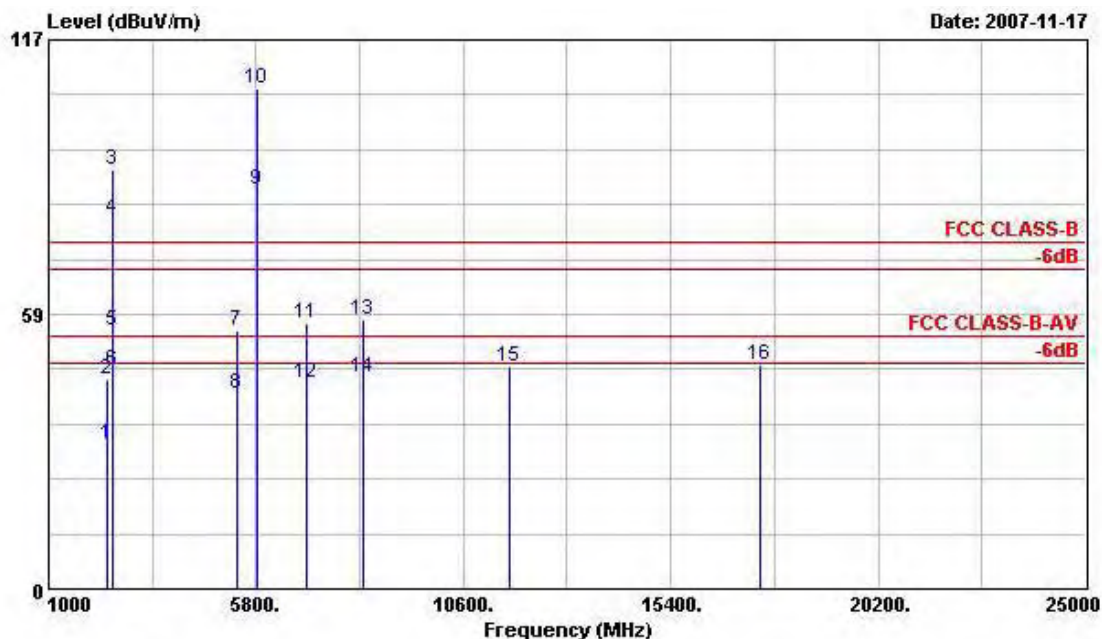
POWER : 120Vac/60Hz

MODEL : FR 701819

MEMO : 11n(a)Tx(20M)\_Ch165+BT Tx\_Ch78 + Adaptor

Data Rate: WLAN:36 BT:DH5

|     | Freq    | Level  | Over Limit | Limit Line | ReadAntenna Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|-----|---------|--------|------------|------------|-------------------|----------------|------------|---------------|---------|-----------|--------|
|     | MHz     | dBuV/m | dB         | dBuV/m     | dBuV              | dB/m           | dB         | dB            | cm      | deg       |        |
| 1   | 32.970  | 31.87  | -8.13      | 40.00      | 42.91             | 16.33          | 0.90       | 28.26         | ---     | ---       | Peak   |
| 2 ! | 134.490 | 38.29  | -5.21      | 43.50      | 53.74             | 11.02          | 1.59       | 28.06         | ---     | ---       | Peak   |
| 3 ! | 273.810 | 40.97  | -5.03      | 46.00      | 54.03             | 12.45          | 2.14       | 27.65         | 100     | 184       | Peak   |
| 4   | 397.300 | 35.29  | -10.71     | 46.00      | 45.32             | 15.68          | 2.57       | 28.28         | ---     | ---       | Peak   |
| 5   | 542.900 | 32.52  | -13.48     | 46.00      | 40.40             | 18.19          | 2.97       | 29.04         | ---     | ---       | Peak   |
| 6   | 665.400 | 31.31  | -14.69     | 46.00      | 36.91             | 20.06          | 3.45       | 29.10         | ---     | ---       | Peak   |



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m HF-ANT-10094 HORIZONTAL  
 EUT : N/B  
 POWER : 120Vac/60Hz  
 MODEL : FR 701819  
 MEMO : 11m(a)Tx(20M)\_Ch165+BT Tx\_Ch78 + Adaptor  
 Data Rate: WLAN:36 BT:DH5

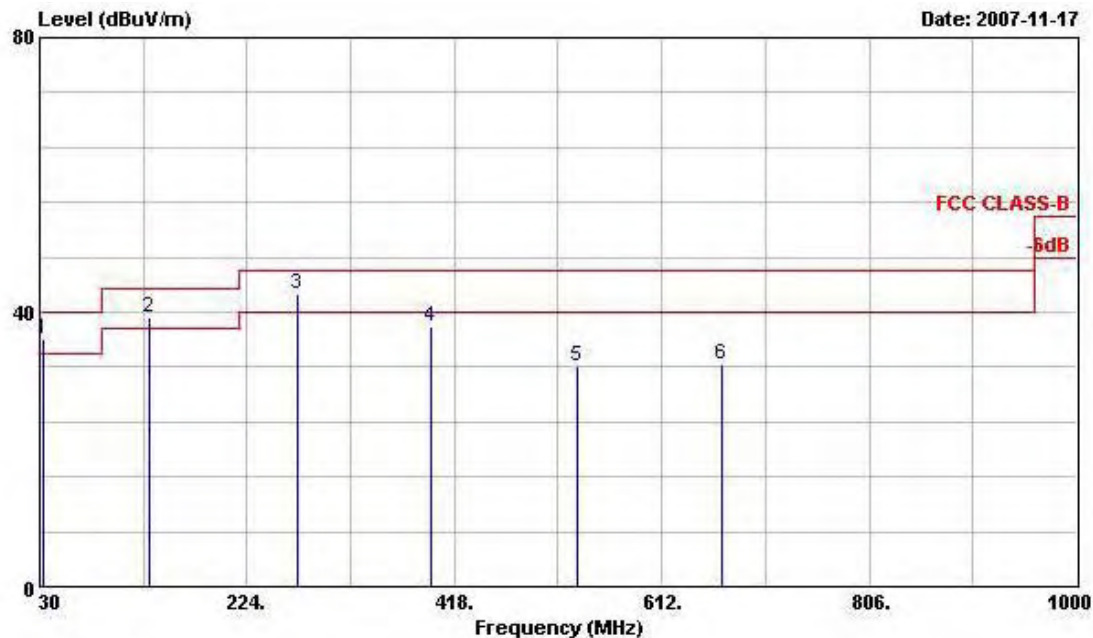
|      | Freq      | Level  | Over   | Limit  | ReadAntenna | Cable  | Preamp | Ant   | Table |             |
|------|-----------|--------|--------|--------|-------------|--------|--------|-------|-------|-------------|
|      | MHz       | dBuV/m | Limit  | Line   | Level       | Loss   | Factor | Pos   | Pos   | Remark      |
|      | MHz       | dBuV/m | dB     | dBuV/m | dBuV        | dB/m   | dB     | dB    | cm    | deg         |
| 1    | 2340.000  | 30.70  | -22.30 | 54.00  | 30.26       | 30.52  | 3.69   | 33.77 | 100   | 97 Average  |
| 2    | 2340.000  | 44.68  |        |        | 44.24       | 30.52  | 3.69   | 33.77 | 100   | 0 Peak      |
| 3 X  | 2480.000  | 89.36  | 15.36  | 74.00  | 88.99       | 30.32  | 3.84   | 33.80 | 100   | 0 Peak      |
| 4 X  | 2480.000  | 79.03  | 25.03  | 54.00  | 78.66       | 30.32  | 3.84   | 33.80 | 100   | 97 Average  |
| 5    | 2483.500  | 55.07  | -18.93 | 74.00  | 54.70       | 30.32  | 3.84   | 33.80 | 100   | 0 Peak      |
| 6    | 2483.500  | 46.53  | -7.47  | 54.00  | 46.16       | 30.32  | 3.84   | 33.80 | 100   | 97 Average  |
| 7    | 5340.000  | 54.92  | 10.92  | 74.00  | 47.58       | 35.50  | 6.00   | 34.16 | 100   | 0 Peak      |
| 8    | 5340.000  | 41.72  |        |        | 34.38       | 35.50  | 6.00   | 34.16 | 100   | 61 Average  |
| 9 X  | 5825.000  | 84.89  | 30.89  | 54.00  | 77.01       | 35.90  | 6.02   | 34.04 | 100   | 61 Average  |
| 10 X | 5825.000  | 106.45 | 32.45  | 74.00  | 98.57       | 35.90  | 6.02   | 34.04 | 100   | 0 Peak      |
| 11   | 6966.000  | 56.56  | -17.44 | 74.00  | 43.71       | 39.02  | 6.35   | 32.52 | 100   | 0 Peak      |
| 12   | 6966.000  | 44.03  | -9.97  | 54.00  | 31.18       | 39.02  | 6.35   | 32.52 | 100   | 61 Average  |
| 13   | 8278.000  | 57.49  | -16.51 | 74.00  | 45.11       | 39.50  | 6.90   | 34.02 | 100   | 0 Peak      |
| 14   | 8278.000  | 45.11  | -8.89  | 54.00  | 32.73       | 39.50  | 6.90   | 34.02 | 100   | 145 Average |
| 15   | 11658.000 | 47.22  | -26.78 | 74.00  | 84.82       | -11.10 | 7.86   | 34.36 | 100   | 0 Peak      |
| 16   | 17481.000 | 47.91  | -26.09 | 74.00  | 84.09       | -12.12 | 9.64   | 33.71 | 100   | 0 Peak      |

Remark: #3, #4, #9 and #10 Fundamental Signal



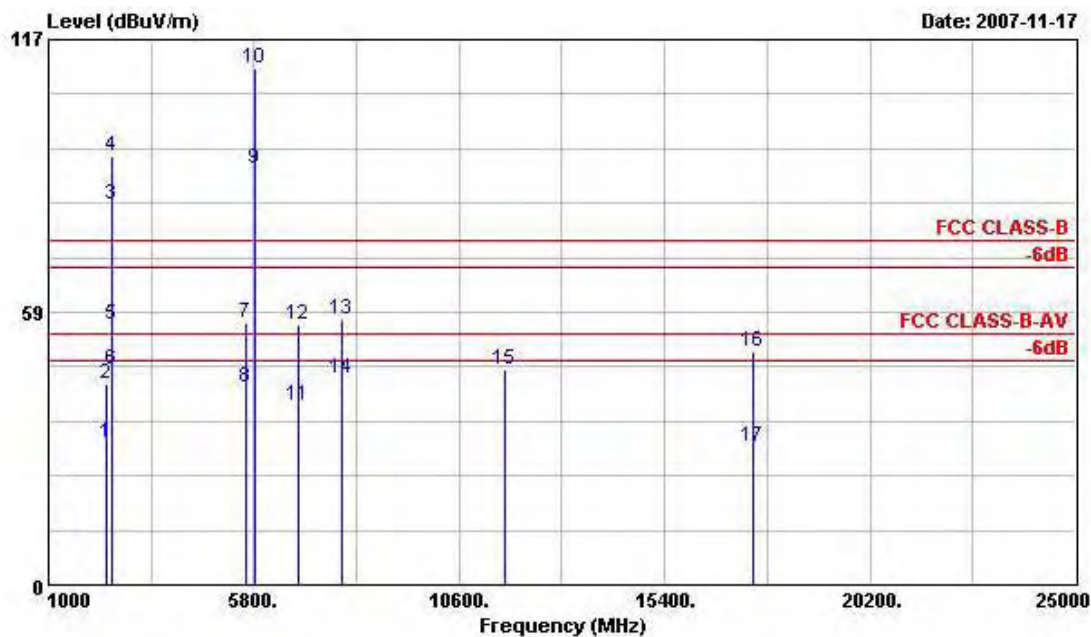
- Polarization : Vertical

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



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL  
 EUT : N/B  
 POWER : 120Vac/60Hz  
 MODEL : FR 701819  
 MEMO : 11n(a)Tx(20M)\_Ch165+BT Tx\_Ch78 + Adaptor  
 Data Rate: WLAN:36 BT:DH5

|     | Freq    | Level  | Over<br>Limit | Limit<br>Line | ReadAntenna<br>Level Factor | Cable<br>Loss | Preamp<br>Factor | Ant<br>Pos | Table<br>Pos | Remark |      |
|-----|---------|--------|---------------|---------------|-----------------------------|---------------|------------------|------------|--------------|--------|------|
|     | MHz     | dBuV/m | dB            | dBuV/m        | dBuV                        | dB/m          | dB               | dB         | cm           | deg    |      |
| 1 ! | 32.970  | 36.01  | -3.99         | 40.00         | 47.05                       | 16.33         | 0.90             | 28.26      | ---          | ---    | Peak |
| 2 ! | 133.140 | 39.15  | -4.35         | 43.50         | 54.44                       | 11.20         | 1.58             | 28.07      | ---          | ---    | Peak |
| 3 ! | 270.570 | 42.60  | -3.40         | 46.00         | 55.67                       | 12.46         | 2.13             | 27.66      | 100          | 214    | Peak |
| 4   | 396.600 | 37.82  | -8.18         | 46.00         | 47.88                       | 15.65         | 2.57             | 28.28      | ---          | ---    | Peak |
| 5   | 533.800 | 32.04  | -13.96        | 46.00         | 40.24                       | 17.90         | 2.94             | 29.03      | ---          | ---    | Peak |
| 6   | 668.200 | 32.39  | -13.61        | 46.00         | 37.98                       | 20.06         | 3.45             | 29.10      | ---          | ---    | Peak |



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m HF-ANT-10094 VERTICAL  
 EUT : N/B  
 POWER : 120Vac/60Hz  
 MODEL : FR 701819  
 MEMO : 11n(a)Tx(20M)\_Ch165+BT Tx\_Ch78 + Adaptor  
 Data Rate: WLAN:36 BT:DH5

|      | Freq      | Level  | Over Limit | Limit Line | ReadAntenna Level | Cable Loss | Preamplifier Factor | Ant Pos | Table Pos | Remark      |
|------|-----------|--------|------------|------------|-------------------|------------|---------------------|---------|-----------|-------------|
|      | MHz       | dBuV/m | dB         | dBuV/m     | dBuV              | dB/m       | dB                  | cm      | deg       |             |
| 1    | 2350.000  | 30.60  |            |            | 30.16             | 30.52      | 3.69                | 33.77   | 100       | 88 Average  |
| 2    | 2350.000  | 42.98  |            |            | 42.54             | 30.52      | 3.69                | 33.77   | 100       | 0 Peak      |
| 3 X  | 2480.000  | 81.55  | 27.55      | 54.00      | 81.18             | 30.32      | 3.84                | 33.80   | 100       | 88 Average  |
| 4 X  | 2480.000  | 92.03  | 18.03      | 74.00      | 91.66             | 30.32      | 3.84                | 33.80   | 100       | 0 Peak      |
| 5    | 2483.500  | 55.77  | -18.23     | 74.00      | 55.40             | 30.32      | 3.84                | 33.80   | 100       | 0 Peak      |
| 6    | 2483.500  | 46.25  | -7.75      | 54.00      | 45.88             | 30.32      | 3.84                | 33.80   | 100       | 88 Average  |
| 7    | 5622.000  | 56.13  |            |            | 48.42             | 35.77      | 6.02                | 34.08   | 100       | 0 Peak      |
| 8    | 5622.000  | 42.17  |            |            | 34.46             | 35.77      | 6.02                | 34.08   | 100       | 13 Average  |
| 9 X  | 5825.000  | 89.30  | 35.30      | 54.00      | 81.42             | 35.90      | 6.02                | 34.04   | 100       | 13 Average  |
| 10 @ | 5825.000  | 110.83 | 36.83      | 74.00      | 102.95            | 35.90      | 6.02                | 34.04   | 100       | 0 Peak      |
| 11   | 6854.000  | 38.39  | -15.61     | 54.00      | 30.51             | 35.90      | 6.02                | 34.04   | 100       | 13 Average  |
| 12   | 6854.000  | 55.85  | -18.15     | 74.00      | 43.75             | 38.39      | 6.31                | 32.61   | 100       | 0 Peak      |
| 13   | 7878.000  | 56.94  | -17.06     | 74.00      | 44.40             | 39.48      | 6.71                | 33.65   | 100       | 0 Peak      |
| 14   | 7878.000  | 44.40  | -9.60      | 54.00      | 31.86             | 39.48      | 6.71                | 33.65   | 100       | 284 Average |
| 15   | 11649.000 | 46.37  | -27.63     | 74.00      | 84.02             | -11.14     | 7.86                | 34.36   | 100       | 0 Peak      |
| 16   | 17469.000 | 49.90  | -24.10     | 74.00      | 86.06             | -12.07     | 9.62                | 33.71   | 100       | 0 Peak      |
| 17   | 17469.000 | 29.62  | -24.38     | 54.00      | 65.78             | -12.07     | 9.62                | 33.71   | 100       | 168 Average |

Remark: #3, #4, #9 and # 10 Fundamental Signal



## **5.8 Antenna Requirements**

### **5.8.1 Standard Applicable**

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no other antenna except assembled by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

### **5.8.2 Antenna Connected Construction**

The antenna used in this product is PIFA antenna for WLAN without connector and it is considered to meet antenna requirement of FCC.

### **5.8.3 Antenna Gain**

The antenna gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

## 6. List of Measuring Equipments

| Instrument               | Manufacturer                | Model No.      | Serial No. | Characteristics           | Calibration Date | Due Date      | Remark                |
|--------------------------|-----------------------------|----------------|------------|---------------------------|------------------|---------------|-----------------------|
| EMC Receiver             | R&S                         | ESCS 30        | 100359     | 9kHz – 2.75GHz            | Mar. 01, 2007    | Feb. 29, 2008 | Conduction (CO04-HY)  |
| LISN                     | MessTec                     | NNB-2/16Z      | 99079      | 9kHz – 30MHz              | Mar. 31, 2007    | Mar. 30, 2008 | Conduction (CO04-HY)  |
| LISN (Support Unit)      | EMCO                        | 3810/2NM       | 9703-1839  | 9kHz – 30MHz              | Mar. 22, 2007    | Mar. 21, 2008 | Conduction (CO04-HY)  |
| RF Cable-CON             | UTIFLEX                     | 3102-26886-4   | CB049      | 9kHz – 30MHz              | Apr. 20, 2007    | Apr. 19, 2008 | Conduction (CO04-HY)  |
| ISN                      | SCHAFFNER                   | ISN T400       | 21653      | 9kHz – 30MHz              | Mar. 09, 2007    | Mar. 08, 2008 | Conduction (CO04-HY)  |
| EMI Filter               | LINDGREN                    | LRE-2030       | 2651       | < 450 Hz                  | N/A              | N/A           | Conduction (CO04-HY)  |
| Isolation Transformer    | Erika Fiedler OHG           | D-65396 Walluf | 58         | 45MHz-2.15GHz             | N/A              | N/A           | Conduction (CO04-HY)  |
| 3m Semi Anechoic Chamber | TDK                         | SAC-3M         | 03CH04-HY  | 30 MHz - 1 GHz<br>3m      | Oct. 29, 2007    | Oct. 28, 2008 | Radiation (03CH04-HY) |
| Amplifier                | HP                          | 87405A         | 3950M00135 | 10MHz - 3 GHz             | Mar. 02, 2007    | Mar. 01, 2008 | Radiation (03CH04-HY) |
| Spectrum Analyzer        | R&S                         | FSP30          | 100792     | 9 kHz – 30GHz             | Dec. 13, 2006    | Dec. 12, 2007 | Radiation (03CH04-HY) |
| Bilog Antenna            | SCHAFFNER                   | CBL6112B       | 2724       | 30 MHz - 1 GHz            | Aug. 13, 2007    | Aug. 12 2008  | Radiation (03CH04-HY) |
| Turn Table               | HD                          | Deis HD 2000   | 420/610    | 0 - 360 degree            | N/A              | N/A           | Radiation (03CH04-HY) |
| Antenna Mast             | Chaintek                    | 3000           | N/A        | 1 m - 4 m                 | N/A              | N/A           | Radiation (03CH04-HY) |
| RF Cable-R03m            | Suhner Switzerland + RFIDEN | RG223/U +RG8/U | CB024      | 30 MHz - 1 GHz            | Sep. 20, 2007    | Sep. 19, 2008 | Radiation (03CH04-HY) |
| Isolation Transformer    | Erika FiedLer OHG           | D-65396 Walluf | N/A        | 45 MHz – 2.15 GHz<br>30dB | N/A              | N/A           | Radiation (03CH04-HY) |

## 7. Uncertainty Evaluation

### Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

| Contribution                                                           | Uncertainty of $x_i$ |                          | $u(x_i)$ |
|------------------------------------------------------------------------|----------------------|--------------------------|----------|
|                                                                        | dB                   | Probability Distribution |          |
| Receiver reading                                                       | 0.10                 | Normal(k=2)              | 0.05     |
| Cable loss                                                             | 0.10                 | Normal(k=2)              | 0.05     |
| AMN insertion loss                                                     | 2.50                 | Rectangular              | 0.63     |
| Receiver Spec                                                          | 1.50                 | Rectangular              | 0.43     |
| Site imperfection                                                      | 1.39                 | Rectangular              | 0.80     |
| Mismatch                                                               | +0.34/-0.35          | U-shape                  | 0.24     |
| <b>Combined standard uncertainty Uc(y)</b>                             | <b>1.13</b>          |                          |          |
| <b>Measuring uncertainty for a level of confidence of 95% U=2Uc(y)</b> | <b>2.26</b>          |                          |          |

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

| Contribution                                                           | Uncertainty of $x_i$ |                          | $u(x_i)$ |
|------------------------------------------------------------------------|----------------------|--------------------------|----------|
|                                                                        | dB                   | Probability Distribution |          |
| Receiver reading                                                       | 0.11                 | Normal(k=2)              | 0.06     |
| Antenna factor calibration                                             | 0.91                 | Normal(k=2)              | 0.46     |
| Cable loss calibration                                                 | 0.12                 | Normal(k=2)              | 0.06     |
| Pre Amplifier Gain calibration                                         | 0.15                 | Normal(k=2)              | 0.08     |
| RCV/SPA specification                                                  | 2.50                 | Rectangular              | 0.72     |
| Antenna Factor Interpolation for Frequency                             | 1.00                 | Rectangular              | 0.29     |
| Site imperfection                                                      | 1.52                 | Rectangular              | 0.88     |
| Mismatch                                                               | +0.45/-0.48          | U-shaped                 | 0.33     |
| <b>Combined standard uncertainty Uc(y)</b>                             | <b>1.30</b>          |                          |          |
| <b>Measuring uncertainty for a level of confidence of 95% U=2Uc(y)</b> | <b>2.60</b>          |                          |          |

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

| Contribution                                                                                                                                   | Uncertainty of $x_i$ |                          | $u(x_i)$ | $C_i$ | $C_i * u(x_i)$ |
|------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------|----------|-------|----------------|
|                                                                                                                                                | 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 $\Gamma_1 = 0.197$<br>Antenna VSWR $\Gamma_2 = 0.194$<br>Uncertainty = $20 \log(1 - \Gamma_1 * \Gamma_2 * \Gamma_3)$ | +0.34/-0.35          | U-shaped                 | 0.244    | 1     | 0.244          |
| <b>Combined standard uncertainty <math>U_c(y)</math></b>                                                                                       | <b>2.36</b>          |                          |          |       |                |
| <b>Measuring uncertainty for a level of confidence of 95% <math>U = 2U_c(y)</math></b>                                                         | <b>4.72</b>          |                          |          |       |                |

The measured result is :  $y \text{ dBuV} \pm U \text{ dB}$

for a level of confidence of approximately 95% , (  $k = 2$  )



## **Appendix A. Photographs of EUT**

Please refer to Sporton report number EP852118 as below.