



# FCC RF Test Report

**APPLICANT** : LC Future Center Limited Taiwan Branch  
**EQUIPMENT** : Notebook  
**BRAND NAME** : Lenovo  
**MODEL NAME** : TP00086A  
**FCC ID** : 2AJN7-TP00086A  
**STANDARD** : FCC Part 15 Subpart C §15.247  
**CLASSIFICATION** : (DTS) Digital Transmission System

This is a partial report which is included the conducted emission and radiated emission test items. The product was received on Nov. 03, 2016 and testing was completed on Dec. 03, 2016. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager



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## REVISION HISTORY



## SUMMARY OF TEST RESULT

| Report Section | FCC Rule  | Description  | Limit                 | Result | Remark                              |
|----------------|-----------|--|-----------------------|--------|-------------------------------------|
| 3.1            | 15.247(d) | Radiated Band Edges and Radiated Spurious Emission | 15.209(a) & 15.247(d) | Pass   | Under limit 0.14 dB at 2483.600 MHz |
| 3.2            | 15.207    | AC Conducted Emission                              | 15.207(a)             | Pass   | Under limit 17.45 dB at 4.860 MHz   |



## 1 General Description

### 1.1 Applicant

**LC Future Center Limited Taiwan Branch**

7F., No.780, Bei'an Rd., Zhongshan Dist., Taipei City 104, Taiwan (R.O.C.)

### 1.2 Manufacturer

**LC Future Center Limited Taiwan Branch**

7F., No.780, Bei'an Rd., Zhongshan Dist., Taipei City 104, Taiwan (R.O.C.)

### 1.3 Product Feature of Equipment Under Test

| Product Feature                        |  |
|--|--|
| <b>Equipment</b>                       | Notebook   |
| <b>Brand Name</b>                      | Lenovo   |
| <b>Model Name</b>                      | TP00086A   |
| <b>FCC ID</b>                          | 2AJN7-TP00086A   |
| <b>Integrated WLAN Module</b>          | Brand Name: Intel<br>Model Name: 8265NGW   |
| <b>Sample 1</b>                        | EUT with Antenna 1   |
| <b>Sample 2</b>                        | EUT with Antenna 2   |
| <b>EUT supports Radios application</b> | WCDMA/HSPA/LTE<br>WLAN 11a/b/g/n HT20/HT40<br>WLAN 11ac VHT20/VHT40/VHT80<br>Bluetooth BR/EDR/LE |
| <b>EUT Stage</b>                       | Production Unit  |

**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

### 1.4 Product Specification of Equipment Under Test

| Standards-related Product Specification |  |        |
|---|--|--------|
| <b>Tx/Rx Channel Frequency Range</b>    | 2412 MHz ~ 2472 MHz  |        |
| <b>Type of Modulation</b>               | 802.11b : DSSS (DBPSK / DQPSK / CCK)<br>802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)<br>802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM) |        |
| <b>Antenna Function for Transmitter</b> | Ant. 1   | Ant. 2 |
|   | 802.11 b/g/n   | V      |
|   | 802.11 n MIMO  | V      |

**Note:** MIMO Ant. 1+2 is a calculated result from sum of the power MIMO Ant. 1 and MIMO Ant. 2.



## 1.5 Modification of EUT

No modifications are made to the EUT during all test items.

## 1.6 Testing Location

Sportun Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1022 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

|                           |   |           |
|---------------------------|---|-----------|
| <b>Test Site</b>          | SPORTON INTERNATIONAL INC.  |           |
| <b>Test Site Location</b> | No. 52, Hwa Ya 1 <sup>st</sup> Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.<br>TEL: +886-3-327-3456<br>FAX: +886-3-328-4978 |           |
| <b>Test Site No.</b>      | <b>Sportun Site No.</b>   |           |
|                           | CO04-HY   | 03CH07-HY |

**Note:** The test site complies with ANSI C63.4 2014 requirement.

## 1.7 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart C §15.247
- FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r05
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- FCC KDB 644545 D03 Guidance for IEEE 802.11ac New Rules v01
- ANSI C63.10-2013

**Remark:** All test items were verified and recorded according to the standards and without any deviation during the test.



## 2 Test Configuration of Equipment Under Test

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conducted emission (150 kHz to 30 MHz) and radiated emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

### 2.1 Carrier Frequency and Channel

| Frequency Band  | Channel | Freq.<br>(MHz) | Channel | Freq.<br>(MHz) |
|-----------------|---------|----------------|---------|----------------|
| 2400-2483.5 MHz | 1       | 2412           | 8       | 2447           |
|                 | 2       | 2417           | 9       | 2452           |
|                 | 3       | 2422           | 10      | 2457           |
|                 | 4       | 2427           | 11      | 2462           |
|                 | 5       | 2432           | 12      | 2467           |
|                 | 6       | 2437           | 13      | 2472           |
|                 | 7       | 2442           | -       | -              |



## 2.2 Test Mode

Final test mode of conducted test items and radiated spurious emissions are considering the modulation and worse data rates as below table.

### Single Antenna

| Modulation   | Data Rate |
|--------------|-----------|
| 802.11b      | 1 Mbps    |
| 802.11g      | 6 Mbps    |
| 802.11n HT20 | MCS0      |
| 802.11n HT40 | MCS0      |

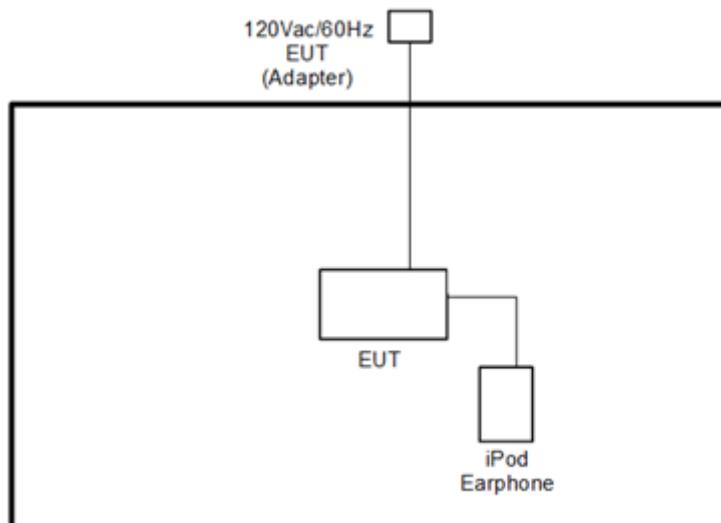
### MIMO Antenna

| Modulation   | Data Rate |
|--------------|-----------|
| 802.11n HT20 | MCS0      |
| 802.11n HT40 | MCS0      |

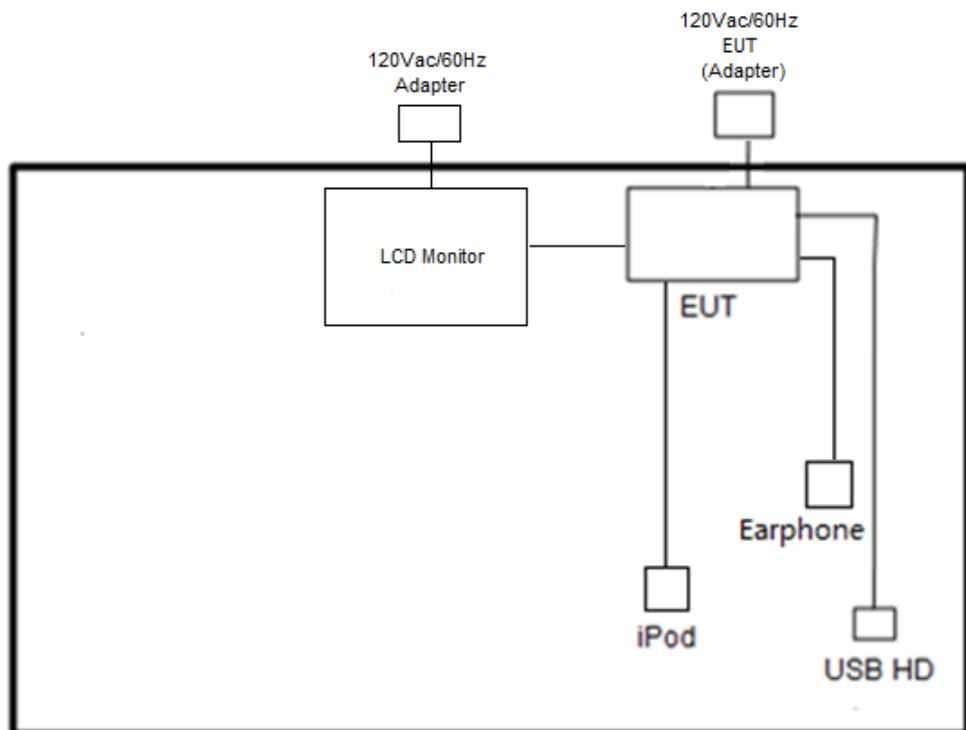
| Test Cases  |  |
|---|--|
| AC<br>Conducted<br>Emission   | Mode 1: Bluetooth Link + TF + TC<br>Mode 2: WLAN (2.4GHz) Link + TF + TC |
| <b>Remark:</b><br><ol style="list-style-type: none"><li>1. The worst case of conducted emission is mode 1; only the test data of it was reported.</li><li>2. All the radiated test cases were performance with Antenna 2.</li><li>3. TF stands for Test Function, and consists of MPEG4 and Camera.</li><li>4. TC stands for Test Configuration, and consists of Earphone, USB (HD and iPod), Adapter, SD Card, and DP Cable.</li></ol> |  |

## 2.3 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode>





## 2.4 Support Unit used in test configuration and system

| Item | Equipment     | Trade Name | Model Name      | FCC ID       | Data Cable        | Power Cord        |
|------|---------------|------------|-----------------|--------------|-------------------|-------------------|
| 1.   | LCD Monitor   | DELL       | U2410           | FCC DoC      | Shielded, 1.6 m   | Unshielded, 1.8 m |
| 2.   | iPod          | Apple      | A1285           | DoC          | Shielded, 1.0m    | N/A               |
| 3.   | Earphone      | lenovo     | TS300-01MS21-8S | FCC DoC      | Unshielded,1.2m   | N/A               |
| 4.   | iPod Earphone | Apple      | N/A             | Verification | Unshielded, 1.0 m | N/A               |
| 5.   | HD USB        | lenovo     | F310S           | FCC DoC      | Shielded, 0.5m    | N/A               |
| 6.   | SD Card       | SanDisk    | MicroSD HC      | FCC DoC      | N/A               | N/A               |

## 2.5 EUT Operation Test Setup

For WLAN function, programmed RF utility, "DRTU" installed in the notebook make the EUT provide functions like channel selection and power level for continuous transmitting and receiving signals.



### 3 Test Result

#### 3.1 Radiated Band Edges and Spurious Emission Measurement

##### 3.1.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the FCC section 15.209 limits as below.

| Frequency<br>(MHz) | Field Strength<br>(microvolts/meter) | Measurement Distance<br>(meters) |
|--------------------|--------------------------------------|----------------------------------|
| 0.009 – 0.490      | 2400/F(kHz)                          | 300                              |
| 0.490 – 1.705      | 24000/F(kHz)                         | 30                               |
| 1.705 – 30.0       | 30                                   | 30                               |
| 30 – 88            | 100                                  | 3                                |
| 88 – 216           | 150                                  | 3                                |
| 216 - 960          | 200                                  | 3                                |
| Above 960          | 500                                  | 3                                |

##### 3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.



### 3.1.3 Test Procedures

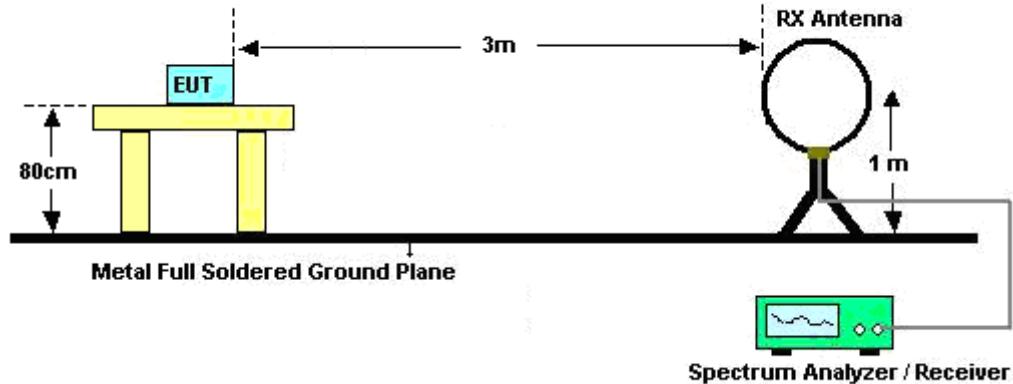
1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r05.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
7. Use the following spectrum analyzer settings:
  - (1) Span shall wide enough to fully capture the emission being measured;
  - (2) Set RBW=100 kHz for  $f < 1$  GHz; VBW  $\geq$  RBW; Sweep = auto; Detector function = peak; Trace = max hold;
  - (3) Set RBW = 1 MHz, VBW= 3MHz for  $f \geq 1$  GHz for peak measurement.

For average measurement:

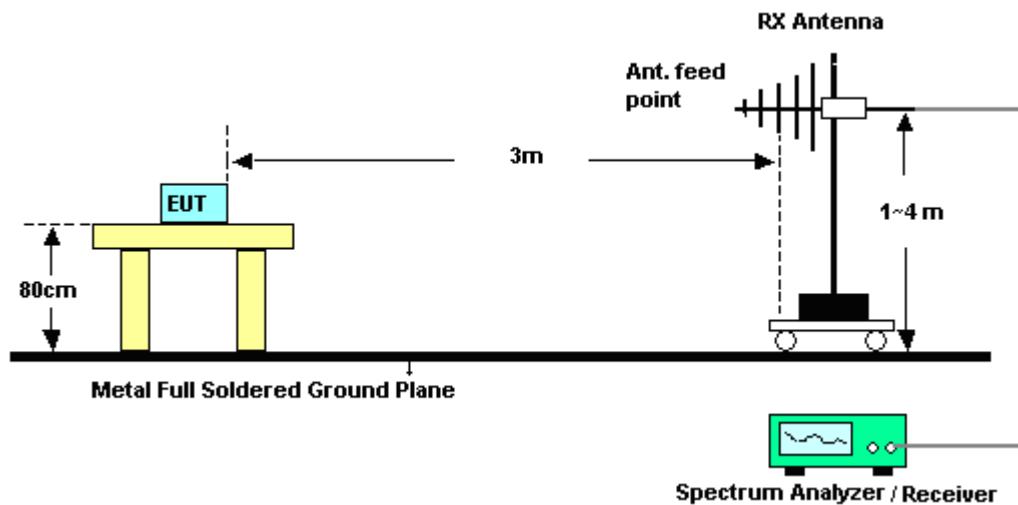
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- $VBW \geq 1/T$ , when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

### 3.1.4 Test Setup

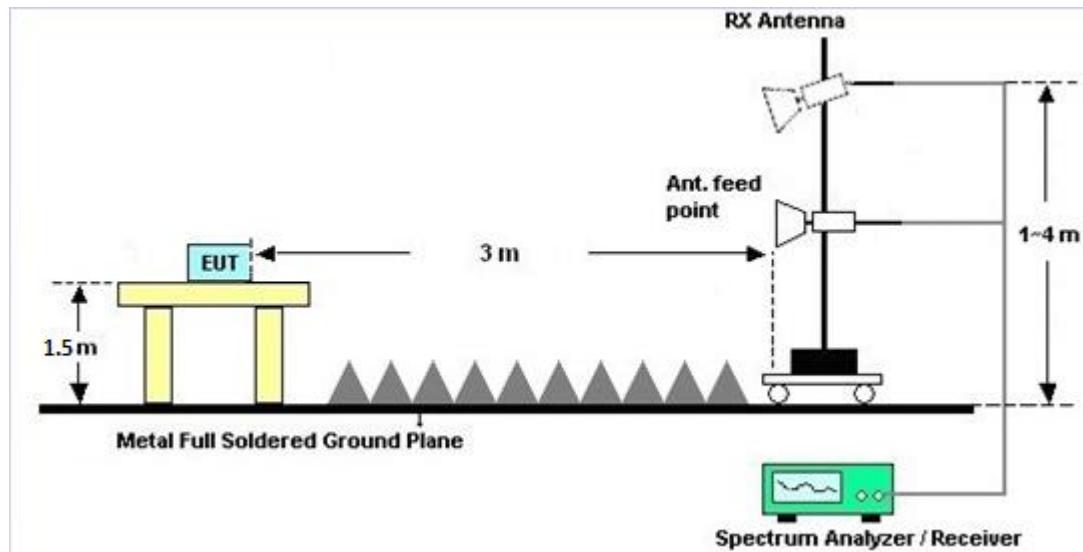
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



### 3.1.5 Test Results of Radiated Spurious Emissions (9kHz ~ 30MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

### 3.1.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix A and B.

### 3.1.7 Duty Cycle

Please refer to Appendix C.

### 3.1.8 Test Result of Radiated Spurious Emission (30MHz ~ 10<sup>th</sup> Harmonic)

Please refer to Appendix A and B.



## 3.2 AC Conducted Emission Measurement

### 3.2.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

| Frequency of Emission<br>(MHz) | Conducted Limit (dB $\mu$ V) |           |
|--------------------------------|------------------------------|-----------|
|                                | Quasi-Peak                   | Average   |
| 0.15-0.5                       | 66 to 56*                    | 56 to 46* |
| 0.5-5                          | 56                           | 46        |
| 5-30                           | 60                           | 50        |

\*Decreases with the logarithm of the frequency.

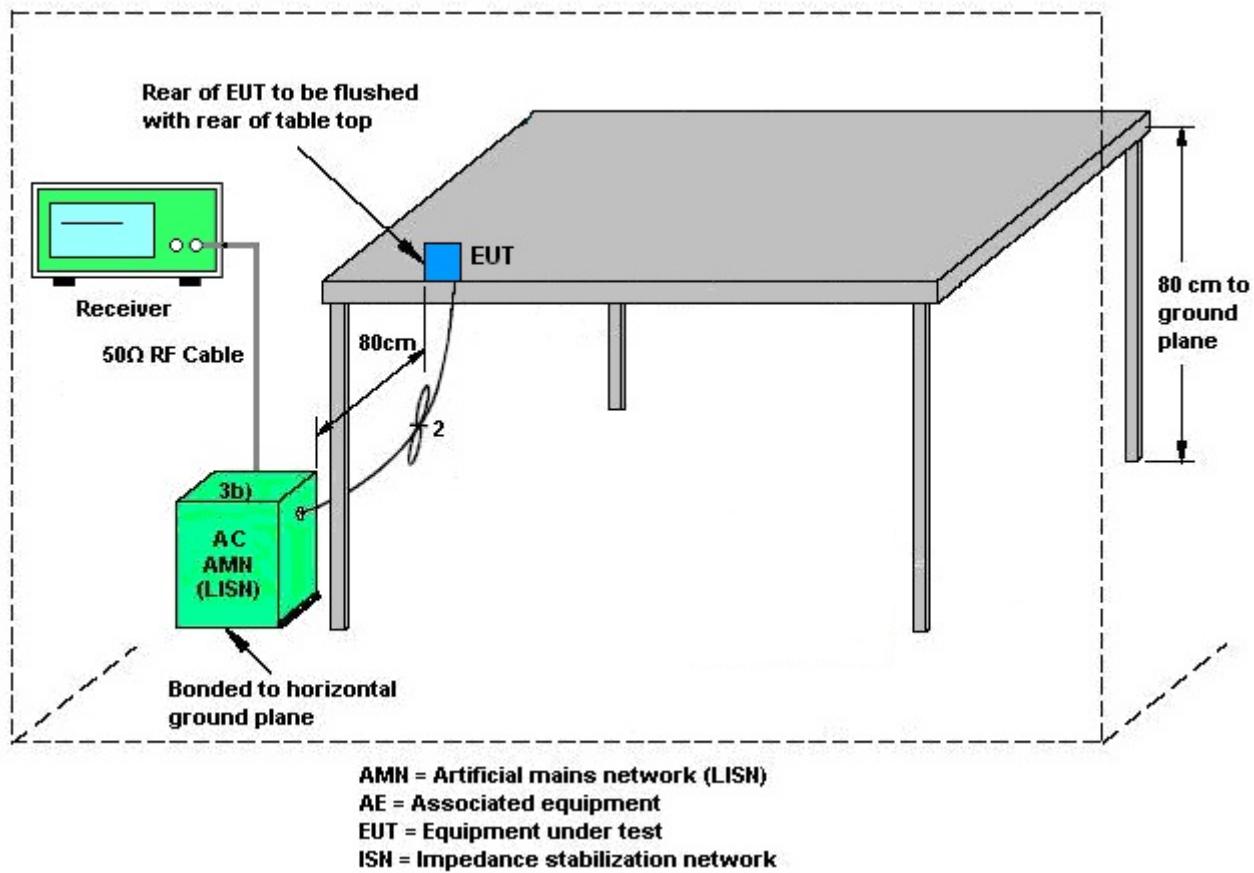
### 3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

### 3.2.3 Test Procedures

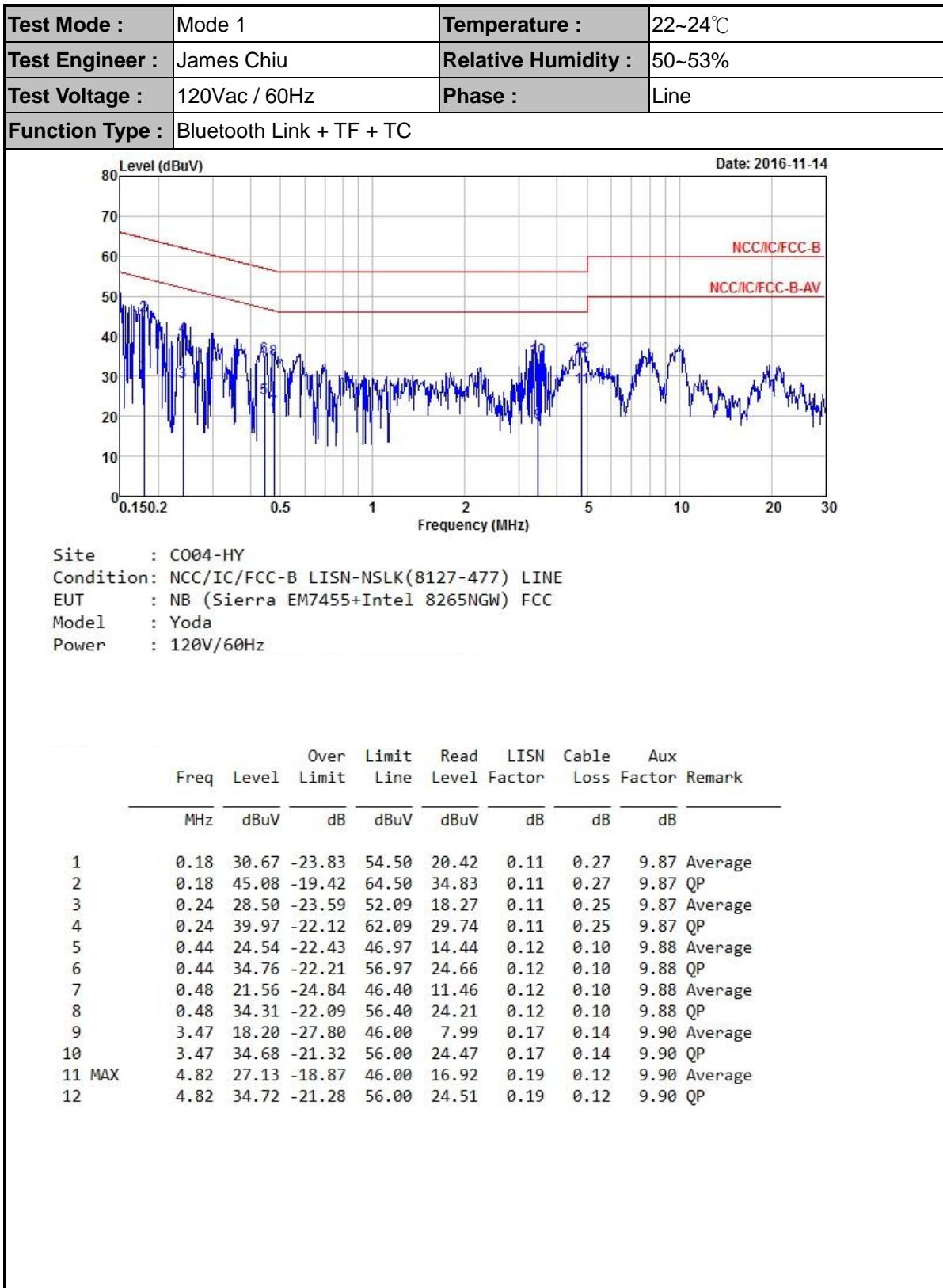
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF bandwidth = 9kHz) with Maximum Hold Mode.

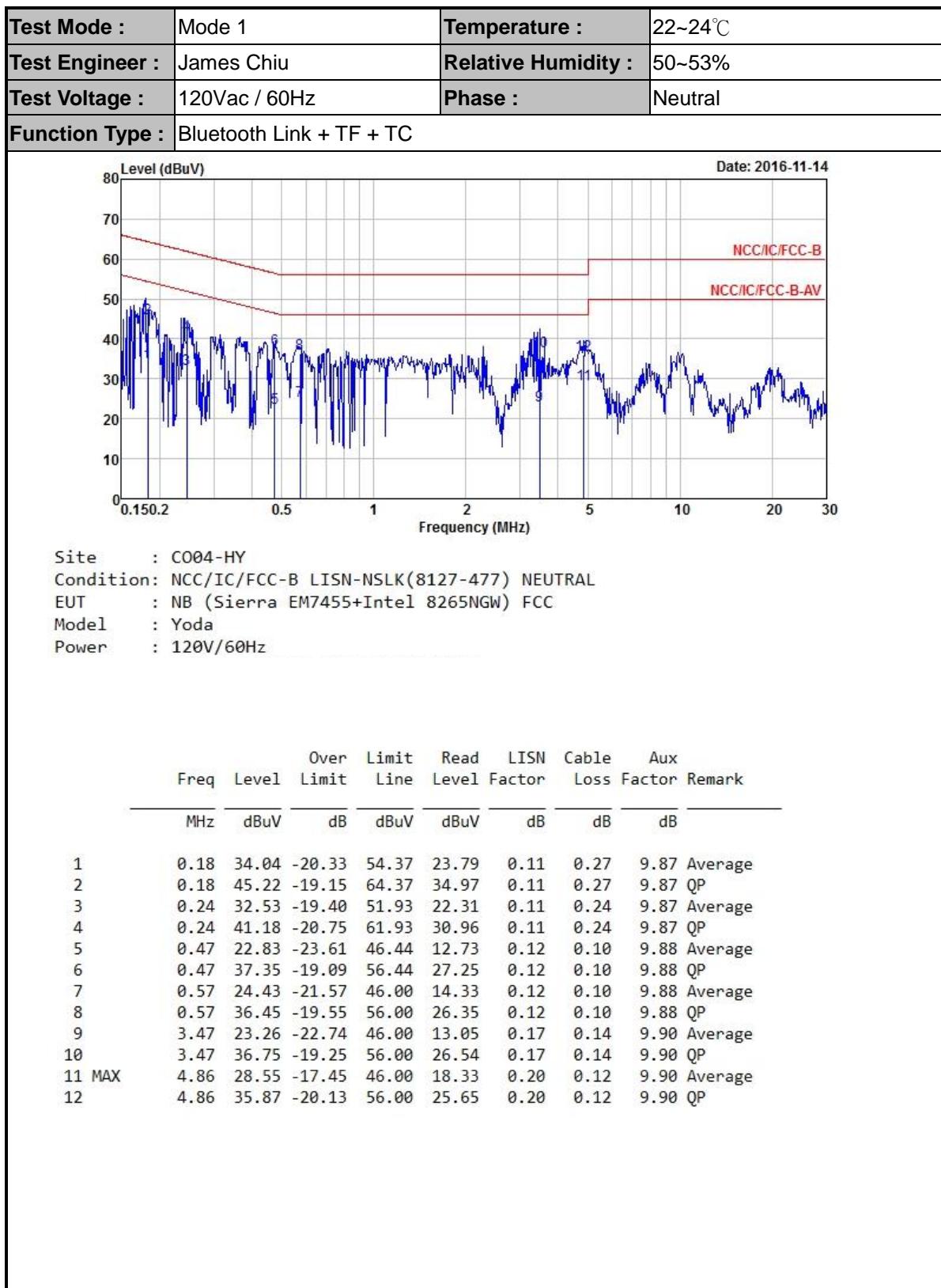
### 3.2.4 Test Setup





### 3.2.5 Test Result of AC Conducted Emission







## 4 List of Measuring Equipment

| Instrument                | Manufacturer    | Model No.                       | Serial No.   | Characteristics | Calibration Date | Test Date                        | Due Date      | Remark                |
|---------------------------|-----------------|---------------------------------|--------------|-----------------|------------------|----------------------------------|---------------|-----------------------|
| AC Power Source           | ChainTek        | APC-1000W                       | N/A          | N/A             | N/A              | Nov. 14, 2016                    | N/A           | Conduction (CO04-HY)  |
| EMI Test Receiver         | Rohde & Schwarz | ESCI 7                          | 100724       | 9kHz~7GHz       | Aug. 30, 2016    | Nov. 14, 2016                    | Aug. 29, 2017 | Conduction (CO04-HY)  |
| LISN                      | Rohde & Schwarz | ENV216                          | 100080       | 9kHz~30MHz      | Dec. 02, 2015    | Nov. 14, 2016                    | Dec. 01, 2016 | Conduction (CO04-HY)  |
| LISN                      | Rohde & Schwarz | ENV216                          | 100081       | 9kHz~30MHz      | Dec. 14, 2015    | Nov. 14, 2016                    | Dec. 13, 2016 | Conduction (CO04-HY)  |
| Bilog Antenna             | TESEQ           | CBL<br>6111D&00800<br>N1D01N-06 | 35419&03     | 30MHz to 1GHz   | Jan. 13, 2016    | Nov. 25, 2016 ~<br>Dec. 03, 2016 | Jan. 12, 2017 | Radiation (03CH07-HY) |
| Double Ridge Horn Antenna | ESCO            | 3117                            | 00075962     | 1GHz ~ 18GHz    | Aug. 19, 2016    | Nov. 25, 2016 ~<br>Dec. 03, 2016 | Aug. 18, 2017 | Radiation (03CH07-HY) |
| EMI Test Receiver         | Keysight        | N9038A (MXE)                    | MY54130 085  | 20Hz ~ 8.4GHz   | Oct. 26, 2016    | Nov. 25, 2016 ~<br>Dec. 03, 2016 | Oct. 25, 2017 | Radiation (03CH07-HY) |
| Loop Antenna              | Rohde & Schwarz | HFH2-Z2                         | 100315       | 9 kHz~30 MHz    | Sep. 02, 2015    | Nov. 25, 2016 ~<br>Dec. 03, 2016 | Sep. 01, 2017 | Radiation (03CH07-HY) |
| Preamplifier              | MITEQ           | AMF-7D-0010<br>1800-30-10P      | 1590075      | 1GHz ~ 18GHz    | Apr. 15, 2016    | Nov. 25, 2016 ~<br>Dec. 03, 2016 | Apr. 14, 2017 | Radiation (03CH07-HY) |
| Preamplifier              | COM-POWER       | PA-103A                         | 161241       | 10MHz-1GHz      | Mar. 18, 2016    | Nov. 25, 2016 ~<br>Dec. 03, 2016 | Mar. 17, 2017 | Radiation (03CH07-HY) |
| Preamplifier              | Agilent         | 8449B                           | 3008A023 62  | 1GHz~ 26.5GHz   | Oct. 12, 2016    | Nov. 25, 2016 ~<br>Dec. 03, 2016 | Oct. 11, 2017 | Radiation (03CH07-HY) |
| Spectrum Analyzer         | Agilent         | N9010A                          | MY534701 18  | 10Hz~44GHz      | Feb. 27, 2016    | Nov. 25, 2016 ~<br>Dec. 03, 2016 | Feb. 26, 2017 | Radiation (03CH07-HY) |
| Antenna Mast              | Max-Full        | MFA520BS                        | N/A          | 1m~4m           | N/A              | Nov. 25, 2016 ~<br>Dec. 03, 2016 | N/A           | Radiation (03CH07-HY) |
| Turn Table                | ChainTek        | Chaintek 3000                   | N/A          | 0~360 Degree    | N/A              | Nov. 25, 2016 ~<br>Dec. 03, 2016 | N/A           | Radiation (03CH07-HY) |
| Preamplifier              | MITEQ           | JS44-180040 00-33-8P            | 1840917      | 18GHz ~ 40GHz   | Jun. 14, 2016    | Nov. 25, 2016 ~<br>Dec. 03, 2016 | Jun. 13, 2017 | Radiation (03CH07-HY) |
| SHF-EHF Horn Antenna      | SCHWARZBECK     | BBHA 9170                       | BBHA917 0584 | 18GHz- 40GHz    | Nov. 08, 2016    | Nov. 25, 2016 ~<br>Dec. 03, 2016 | Nov. 07, 2017 | Radiation (03CH07-HY) |



## 5 Uncertainty of Evaluation

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

|   |      |
|---|------|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2U_{c(y)}$ ) | 2.20 |
|---|------|

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

|   |     |
|---|-----|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2U_{c(y)}$ ) | 5.7 |
|---|-----|

### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

|   |     |
|---|-----|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2U_{c(y)}$ ) | 5.5 |
|---|-----|

### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

|   |     |
|---|-----|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2U_{c(y)}$ ) | 5.2 |
|---|-----|



## Appendix A. Radiated Spurious Emission

|                 |                                       |                     |  |         |
|-----------------|---------------------------------------|---------------------|--|---------|
| Test Engineer : | Jesse Wang, James Chiu and Daniel Lee | Temperature :       |  | 21~23°C |
|                 |                                       | Relative Humidity : |  | 47~51%  |

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

| WIFI                        | Note | Frequency | Level            | Over   | Limit            | Read           | Antenna  | Cable  | Preamp | Ant    | Table   | Peak  | Pol.  |
|-----------------------------|------|-----------|------------------|--------|------------------|----------------|----------|--------|--------|--------|---------|-------|-------|
| Ant.                        |      | ( MHz )   | ( dB $\mu$ V/m ) | ( dB ) | ( dB $\mu$ V/m ) | ( dB $\mu$ V ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11b<br>CH 01<br>2412MHz | 1    | 2389.485  | 55.64            | -18.36 | 74               | 51.11          | 32.19    | 7.31   | 34.97  | 318    | 134     | P     | H     |
|                             |      | 2385.39   | 45.55            | -8.45  | 54               | 41.07          | 32.14    | 7.31   | 34.97  | 318    | 134     | A     | H     |
|                             | *    | 2412      | 103.93           | -      | -                | 99.36          | 32.24    | 7.31   | 34.98  | 318    | 134     | P     | H     |
|                             | *    | 2412      | 100.86           | -      | -                | 96.29          | 32.24    | 7.31   | 34.98  | 318    | 134     | A     | H     |
|                             |      |           |                  |        |                  |                |          |        |        |        |         |       | H     |
|                             |      |           |                  |        |                  |                |          |        |        |        |         |       | H     |
|                             |      | 2386.65   | 55.06            | -18.94 | 74               | 50.53          | 32.19    | 7.31   | 34.97  | 309    | 170     | P     | V     |
|                             |      | 2385.075  | 46.19            | -7.81  | 54               | 41.71          | 32.14    | 7.31   | 34.97  | 309    | 170     | A     | V     |
|                             | *    | 2412      | 109.54           | -      | -                | 104.97         | 32.24    | 7.31   | 34.98  | 309    | 170     | P     | V     |
|                             | *    | 2412      | 105.03           | -      | -                | 100.46         | 32.24    | 7.31   | 34.98  | 309    | 170     | A     | V     |
| 802.11b<br>CH 06<br>2437MHz |      |           |                  |        |                  |                |          |        |        |        |         |       | V     |
|                             |      | 2367.4    | 55               | -19    | 74               | 50.64          | 32.09    | 7.24   | 34.97  | 313    | 134     | P     | H     |
|                             |      | 2388.82   | 44.4             | -9.6   | 54               | 39.87          | 32.19    | 7.31   | 34.97  | 313    | 134     | A     | H     |
|                             | *    | 2437      | 104.34           | -      | -                | 99.63          | 32.34    | 7.36   | 34.99  | 313    | 134     | P     | H     |
|                             | *    | 2437      | 101.16           | -      | -                | 96.45          | 32.34    | 7.36   | 34.99  | 313    | 134     | A     | H     |
|                             |      | 2490.41   | 55.5             | -18.5  | 74               | 50.6           | 32.5     | 7.4    | 35     | 313    | 134     | P     | H     |
|                             |      | 2487.68   | 44.46            | -9.54  | 54               | 39.56          | 32.5     | 7.4    | 35     | 313    | 134     | A     | H     |
|                             |      | 2379.3    | 54.64            | -19.36 | 74               | 50.23          | 32.14    | 7.24   | 34.97  | 316    | 181     | P     | V     |
|                             |      | 2388.68   | 45.56            | -8.44  | 54               | 41.03          | 32.19    | 7.31   | 34.97  | 316    | 181     | A     | V     |
|                             | *    | 2437      | 109.14           | -      | -                | 104.43         | 32.34    | 7.36   | 34.99  | 316    | 181     | P     | V     |
|                             | *    | 2437      | 104.49           | -      | -                | 99.78          | 32.34    | 7.36   | 34.99  | 316    | 181     | A     | V     |
|                             |      | 2499.16   | 55.27            | -18.73 | 74               | 50.38          | 32.5     | 7.4    | 35.01  | 316    | 181     | P     | V     |
|                             |      | 2491.25   | 46.71            | -7.29  | 54               | 41.81          | 32.5     | 7.4    | 35     | 316    | 181     | A     | V     |



|                             |   |         |        |        |    |        |      |     |       |     |     |   |   |
|-----------------------------|---|---------|--------|--------|----|--------|------|-----|-------|-----|-----|---|---|
| 802.11b<br>CH 11<br>2462MHz | *   | 2462    | 103.37 | -      | -  | 98.56  | 32.4 | 7.4 | 34.99 | 299 | 131 | P | H |
|                             | *   | 2462    | 100.33 | -      | -  | 95.52  | 32.4 | 7.4 | 34.99 | 299 | 131 | A | H |
|                             |   | 2488.68 | 55.52  | -18.48 | 74 | 50.62  | 32.5 | 7.4 | 35    | 299 | 131 | P | H |
|                             |   | 2496.08 | 45.64  | -8.36  | 54 | 40.75  | 32.5 | 7.4 | 35.01 | 299 | 131 | A | H |
|                             |   |         |        |        |    |        |      |     |       |     |     |   | H |
|                             |   |         |        |        |    |        |      |     |       |     |     |   | H |
|                             | *   | 2462    | 109.18 | -      | -  | 104.37 | 32.4 | 7.4 | 34.99 | 265 | 194 | P | V |
|                             | *   | 2462    | 105.31 | -      | -  | 100.5  | 32.4 | 7.4 | 34.99 | 265 | 194 | A | V |
|                             |   | 2498.52 | 56.74  | -17.26 | 74 | 51.85  | 32.5 | 7.4 | 35.01 | 265 | 194 | P | V |
|                             |   | 2499.4  | 47.27  | -6.73  | 54 | 42.38  | 32.5 | 7.4 | 35.01 | 265 | 194 | A | V |
|                             |   |         |        |        |    |        |      |     |       |     |     |   | V |
|                             |   |         |        |        |    |        |      |     |       |     |     |   | V |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |      |     |       |     |     |   |   |



|                             |   |         |        |        |    |        |       |     |       |     |     |   |   |
|-----------------------------|---|---------|--------|--------|----|--------|-------|-----|-------|-----|-----|---|---|
| 802.11b<br>CH 12<br>2467MHz | *   | 2467    | 101.59 | -      | -  | 96.79  | 32.4  | 7.4 | 35    | 300 | 133 | P | H |
|                             | *   | 2467    | 98.44  | -      | -  | 93.64  | 32.4  | 7.4 | 35    | 300 | 133 | A | H |
|                             |   | 2497.24 | 56.1   | -17.9  | 74 | 51.21  | 32.5  | 7.4 | 35.01 | 300 | 133 | P | H |
|                             |   | 2491.2  | 46.9   | -7.1   | 54 | 42     | 32.5  | 7.4 | 35    | 300 | 133 | A | H |
|                             |   |         |        |        |    |        |       |     |       |     |     |   | H |
|                             |   |         |        |        |    |        |       |     |       |     |     |   | H |
|                             | *   | 2467    | 107.08 | -      | -  | 102.28 | 32.4  | 7.4 | 35    | 268 | 183 | P | V |
|                             | *   | 2467    | 103.97 | -      | -  | 99.17  | 32.4  | 7.4 | 35    | 268 | 183 | A | V |
|                             |   | 2485.2  | 57.86  | -16.14 | 74 | 53.01  | 32.45 | 7.4 | 35    | 268 | 183 | P | V |
|                             |   | 2483.52 | 53.24  | -0.76  | 54 | 48.39  | 32.45 | 7.4 | 35    | 268 | 183 | A | V |
|                             |   |         |        |        |    |        |       |     |       |     |     |   | V |
|                             |   |         |        |        |    |        |       |     |       |     |     |   | V |
| 802.11b<br>CH 13<br>2472MHz | *   | 2472    | 96.52  | -      | -  | 91.67  | 32.45 | 7.4 | 35    | 300 | 133 | P | H |
|                             | *   | 2472    | 93.23  | -      | -  | 88.38  | 32.45 | 7.4 | 35    | 300 | 133 | A | H |
|                             |   | 2484.64 | 56.59  | -17.41 | 74 | 51.74  | 32.45 | 7.4 | 35    | 300 | 133 | P | H |
|                             |   | 2486.92 | 48.61  | -5.39  | 54 | 43.76  | 32.45 | 7.4 | 35    | 300 | 133 | A | H |
|                             |   |         |        |        |    |        |       |     |       |     |     |   | H |
|                             |   |         |        |        |    |        |       |     |       |     |     |   | H |
|                             | *   | 2472    | 101.88 | -      | -  | 97.03  | 32.45 | 7.4 | 35    | 268 | 183 | P | V |
|                             | *   | 2472    | 98.66  | -      | -  | 93.81  | 32.45 | 7.4 | 35    | 268 | 183 | A | V |
|                             |   | 2484.8  | 59.86  | -14.14 | 74 | 55.01  | 32.45 | 7.4 | 35    | 268 | 183 | P | V |
|                             |   | 2484.68 | 53.46  | -0.54  | 54 | 48.61  | 32.45 | 7.4 | 35    | 268 | 183 | A | V |
|                             |   |         |        |        |    |        |       |     |       |     |     |   | V |
|                             |   |         |        |        |    |        |       |     |       |     |     |   | V |
| Remark                      | 3. No other spurious found.<br>4. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |     |       |     |     |   |   |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11b (Harmonic @ 3m)

| WIFI<br>Ant.<br>1           | Note   | Frequency<br>( MHz )  | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-----------------------------|--------|---|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11b<br>CH 01<br>2412MHz |        | 4824  | 39.09                     | -34.91                  | 74                                | 52.81                           | 33.64                         | 11.68                   | 59.04                      | 100                  | 0                       | P                     | H             |
|                             |        |   |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|                             |        |   |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|                             |        |   |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|                             |        | 4824  | 39.96                     | -34.04                  | 74                                | 53.68                           | 33.64                         | 11.68                   | 59.04                      | 100                  | 0                       | P                     | V             |
|                             |        |   |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
|                             |        |   |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
|                             |        |   |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
| 802.11b<br>CH 06<br>2437MHz |        | 4872  | 38.96                     | -35.04                  | 74                                | 52.83                           | 33.54                         | 11.53                   | 58.94                      | 100                  | 0                       | P                     | H             |
|                             |        | 7308  | 38.97                     | -35.03                  | 74                                | 48.4                            | 34.69                         | 13.81                   | 57.93                      | 100                  | 0                       | P                     | H             |
|                             |        |   |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|                             |        | 4872  | 38.81                     | -35.19                  | 74                                | 52.68                           | 33.54                         | 11.53                   | 58.94                      | 100                  | 0                       | P                     | V             |
|                             |        | 7308  | 38.28                     | -35.72                  | 74                                | 47.71                           | 34.69                         | 13.81                   | 57.93                      | 100                  | 0                       | P                     | V             |
|                             |        |   |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
|                             |        |   |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
|                             |        |   |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
| 802.11b<br>CH 11<br>2462MHz |        | 4926  | 38.87                     | -35.13                  | 74                                | 52.9                            | 33.44                         | 11.37                   | 58.84                      | 100                  | 0                       | P                     | H             |
|                             |        | 7386  | 38.36                     | -35.64                  | 74                                | 48                              | 34.47                         | 13.95                   | 58.06                      | 100                  | 0                       | P                     | H             |
|                             |        |   |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|                             |        | 4926  | 40.92                     | -33.08                  | 74                                | 54.95                           | 33.44                         | 11.37                   | 58.84                      | 100                  | 0                       | P                     | V             |
|                             |        | 7386  | 40.17                     | -33.83                  | 74                                | 49.81                           | 34.47                         | 13.95                   | 58.06                      | 100                  | 0                       | P                     | V             |
|                             |        |   |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
|                             |        |   |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
|                             | Remark | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       |               |



|                             |   |      |       |        |    |       |       |       |       |     |   |   |   |
|-----------------------------|---|------|-------|--------|----|-------|-------|-------|-------|-----|---|---|---|
| 802.11b<br>CH 12<br>2467MHz |   | 4934 | 39.49 | -34.51 | 74 | 53.52 | 33.44 | 11.37 | 58.84 | 100 | 0 | P | H |
|                             |   | 7401 | 38.43 | -35.57 | 74 | 48.14 | 34.42 | 13.95 | 58.08 | 100 | 0 | P | H |
|                             |   |      |       |        |    |       |       |       |       |     |   |   | H |
|                             |   |      |       |        |    |       |       |       |       |     |   |   | H |
|                             |   | 4934 | 42.3  | -31.7  | 74 | 56.33 | 33.44 | 11.37 | 58.84 | 100 | 0 | P | V |
|                             |   | 7401 | 38.53 | -35.47 | 74 | 48.24 | 34.42 | 13.95 | 58.08 | 100 | 0 | P | V |
|                             |   |      |       |        |    |       |       |       |       |     |   |   | V |
|                             |   |      |       |        |    |       |       |       |       |     |   |   | V |
|                             |   |      |       |        |    |       |       |       |       |     |   |   |   |
| 802.11b<br>CH 13<br>2472MHz |   | 4944 | 38.99 | -35.01 | 74 | 53.17 | 33.4  | 11.22 | 58.8  | 100 | 0 | P | H |
|                             |   | 7416 | 39.11 | -34.89 | 74 | 48.82 | 34.42 | 13.95 | 58.08 | 100 | 0 | P | H |
|                             |   |      |       |        |    |       |       |       |       |     |   |   | H |
|                             |   |      |       |        |    |       |       |       |       |     |   |   | H |
|                             |   | 4944 | 39.12 | -34.88 | 74 | 53.3  | 33.4  | 11.22 | 58.8  | 100 | 0 | P | V |
|                             |   | 7416 | 38.3  | -35.7  | 74 | 48.01 | 34.42 | 13.95 | 58.08 | 100 | 0 | P | V |
|                             |   |      |       |        |    |       |       |       |       |     |   |   | V |
|                             |   |      |       |        |    |       |       |       |       |     |   |   | V |
|                             |   |      |       |        |    |       |       |       |       |     |   |   |   |
| Remark                      | 3. No other spurious found.<br>4. All results are PASS against Peak and Average limit line. |      |       |        |    |       |       |       |       |     |   |   |   |



## 2.4GHz 2400~2483.5MHz

WIFI 802.11g (Band Edge @ 3m)

| WIFI<br>Ant.<br>1           | Note | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-----------------------------|------|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11g<br>CH 01<br>2412MHz |      | 2388.645             | 61.22                     | -12.78                  | 74                                | 56.69                           | 32.19                         | 7.31                    | 34.97                      | 317                  | 133                     | P                     | H             |
|                             |      | 2389.8               | 51.44                     | -2.56                   | 54                                | 46.92                           | 32.19                         | 7.31                    | 34.98                      | 317                  | 133                     | A                     | H             |
|                             | *    | 2412                 | 107.23                    | -                       | -                                 | 102.66                          | 32.24                         | 7.31                    | 34.98                      | 317                  | 133                     | P                     | H             |
|                             | *    | 2412                 | 99.31                     | -                       | -                                 | 94.74                           | 32.24                         | 7.31                    | 34.98                      | 317                  | 133                     | A                     | H             |
|                             |      |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|                             |      |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|                             |      | 2389.695             | 66.4                      | -7.6                    | 74                                | 61.87                           | 32.19                         | 7.31                    | 34.97                      | 310                  | 170                     | P                     | V             |
|                             |      | 2390                 | 53.19                     | -0.81                   | 54                                | 48.67                           | 32.19                         | 7.31                    | 34.98                      | 310                  | 170                     | A                     | V             |
|                             | *    | 2412                 | 111.24                    | -                       | -                                 | 106.67                          | 32.24                         | 7.31                    | 34.98                      | 310                  | 170                     | P                     | V             |
|                             | *    | 2412                 | 103.55                    | -                       | -                                 | 98.98                           | 32.24                         | 7.31                    | 34.98                      | 310                  | 170                     | A                     | V             |
|                             |      |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
|                             |      |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
| 802.11g<br>CH 06<br>2437MHz |      | 2388.54              | 56.17                     | -17.83                  | 74                                | 51.64                           | 32.19                         | 7.31                    | 34.97                      | 278                  | 133                     | P                     | H             |
|                             |      | 2389.52              | 45.47                     | -8.53                   | 54                                | 40.94                           | 32.19                         | 7.31                    | 34.97                      | 278                  | 133                     | A                     | H             |
|                             | *    | 2437                 | 108.04                    | -                       | -                                 | 103.33                          | 32.34                         | 7.36                    | 34.99                      | 278                  | 133                     | P                     | H             |
|                             | *    | 2437                 | 100.35                    | -                       | -                                 | 95.64                           | 32.34                         | 7.36                    | 34.99                      | 278                  | 133                     | A                     | H             |
|                             |      | 2489.85              | 55.15                     | -18.85                  | 74                                | 50.25                           | 32.5                          | 7.4                     | 35                         | 278                  | 133                     | P                     | H             |
|                             |      | 2483.9               | 45.75                     | -8.25                   | 54                                | 40.9                            | 32.45                         | 7.4                     | 35                         | 278                  | 133                     | A                     | H             |
|                             |      | 2347.8               | 55.29                     | -18.71                  | 74                                | 50.99                           | 32.03                         | 7.24                    | 34.97                      | 300                  | 175                     | P                     | V             |
|                             |      | 2389.94              | 45.78                     | -8.22                   | 54                                | 41.26                           | 32.19                         | 7.31                    | 34.98                      | 300                  | 175                     | A                     | V             |
|                             | *    | 2437                 | 110.15                    | -                       | -                                 | 105.44                          | 32.34                         | 7.36                    | 34.99                      | 300                  | 175                     | P                     | V             |
|                             | *    | 2437                 | 102.66                    | -                       | -                                 | 97.95                           | 32.34                         | 7.36                    | 34.99                      | 300                  | 175                     | A                     | V             |
|                             |      | 2486.28              | 56.82                     | -17.18                  | 74                                | 51.97                           | 32.45                         | 7.4                     | 35                         | 300                  | 175                     | P                     | V             |
|                             |      | 2484.32              | 47.79                     | -6.21                   | 54                                | 42.94                           | 32.45                         | 7.4                     | 35                         | 300                  | 175                     | A                     | V             |



|                             |   |         |        |        |    |        |       |     |       |     |     |   |   |
|-----------------------------|---|---------|--------|--------|----|--------|-------|-----|-------|-----|-----|---|---|
| 802.11g<br>CH 11<br>2462MHz | *   | 2462    | 105.72 | -      | -  | 100.91 | 32.4  | 7.4 | 34.99 | 306 | 129 | P | H |
|                             | *   | 2462    | 97.89  | -      | -  | 93.08  | 32.4  | 7.4 | 34.99 | 306 | 129 | A | H |
|                             |   | 2484.12 | 59.23  | -14.77 | 74 | 54.38  | 32.45 | 7.4 | 35    | 306 | 129 | P | H |
|                             |   | 2483.76 | 47.54  | -6.46  | 54 | 42.69  | 32.45 | 7.4 | 35    | 306 | 129 | A | H |
|                             |   |         |        |        |    |        |       |     |       |     |     |   | H |
|                             |   |         |        |        |    |        |       |     |       |     |     |   | H |
|                             | *   | 2462    | 110.63 | -      | -  | 105.82 | 32.4  | 7.4 | 34.99 | 266 | 193 | P | V |
|                             | *   | 2462    | 103.08 | -      | -  | 98.27  | 32.4  | 7.4 | 34.99 | 266 | 193 | A | V |
|                             |   | 2483.8  | 65.97  | -8.03  | 74 | 61.12  | 32.45 | 7.4 | 35    | 266 | 193 | P | V |
|                             |   | 2483.6  | 52.98  | -1.02  | 54 | 48.13  | 32.45 | 7.4 | 35    | 266 | 193 | A | V |
|                             |   |         |        |        |    |        |       |     |       |     |     |   | V |
|                             |   |         |        |        |    |        |       |     |       |     |     |   | V |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |     |       |     |     |   |   |



|                             |   |         |        |        |    |        |       |     |    |     |     |   |   |
|-----------------------------|---|---------|--------|--------|----|--------|-------|-----|----|-----|-----|---|---|
| 802.11g<br>CH 12<br>2467MHz | *   | 2467    | 100.62 | -      | -  | 95.82  | 32.4  | 7.4 | 35 | 300 | 133 | P | H |
|                             | *   | 2467    | 92.83  | -      | -  | 88.03  | 32.4  | 7.4 | 35 | 300 | 133 | A | H |
|                             |   | 2483.6  | 60.27  | -13.73 | 74 | 55.42  | 32.45 | 7.4 | 35 | 300 | 133 | P | H |
|                             |   | 2483.52 | 47.88  | -6.12  | 54 | 43.03  | 32.45 | 7.4 | 35 | 300 | 133 | A | H |
|                             |   |         |        |        |    |        |       |     |    |     |     |   | H |
|                             |   |         |        |        |    |        |       |     |    |     |     |   | H |
|                             | *   | 2467    | 106.16 | -      | -  | 101.36 | 32.4  | 7.4 | 35 | 268 | 183 | P | V |
|                             | *   | 2467    | 98.25  | -      | -  | 93.45  | 32.4  | 7.4 | 35 | 268 | 183 | A | V |
|                             |   | 2483.72 | 66.22  | -7.78  | 74 | 61.37  | 32.45 | 7.4 | 35 | 268 | 183 | P | V |
|                             |   | 2483.52 | 52.43  | -1.57  | 54 | 47.58  | 32.45 | 7.4 | 35 | 268 | 183 | A | V |
|                             |   |         |        |        |    |        |       |     |    |     |     |   | V |
|                             |   |         |        |        |    |        |       |     |    |     |     |   | V |
| 802.11g<br>CH 13<br>2472MHz | *   | 2472    | 86.04  | -      | -  | 81.19  | 32.45 | 7.4 | 35 | 300 | 133 | P | H |
|                             | *   | 2472    | 78.18  | -      | -  | 73.33  | 32.45 | 7.4 | 35 | 300 | 133 | A | H |
|                             |   | 2484    | 59.74  | -14.26 | 74 | 54.89  | 32.45 | 7.4 | 35 | 300 | 133 | P | H |
|                             |   | 2483.6  | 48.88  | -5.12  | 54 | 44.03  | 32.45 | 7.4 | 35 | 300 | 133 | A | H |
|                             |   |         |        |        |    |        |       |     |    |     |     |   | H |
|                             |   |         |        |        |    |        |       |     |    |     |     |   | H |
|                             | *   | 2472    | 91.33  | -      | -  | 86.48  | 32.45 | 7.4 | 35 | 268 | 183 | P | V |
|                             | *   | 2472    | 83.62  | -      | -  | 78.77  | 32.45 | 7.4 | 35 | 268 | 183 | A | V |
|                             |   | 2483.64 | 64.85  | -9.15  | 74 | 60     | 32.45 | 7.4 | 35 | 268 | 183 | P | V |
|                             |   | 2483.52 | 53.59  | -0.41  | 54 | 48.74  | 32.45 | 7.4 | 35 | 268 | 183 | A | V |
|                             |   |         |        |        |    |        |       |     |    |     |     |   | V |
|                             |   |         |        |        |    |        |       |     |    |     |     |   | V |
| Remark                      | 3. No other spurious found.<br>4. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |     |    |     |     |   |   |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11g (Harmonic @ 3m)

| WIFI<br>Ant.<br>1           | Note   | Frequency<br>( MHz )  | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-----------------------------|--------|---|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11g<br>CH 01<br>2412MHz |        | 4824  | 39.01                     | -34.99                  | 74                                | 52.73                           | 33.64                         | 11.68                   | 59.04                      | 100                  | 0                       | P                     | H             |
|                             |        |   |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|                             |        |   |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|                             |        |   |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|                             |        | 4824  | 39.29                     | -34.71                  | 74                                | 53.01                           | 33.64                         | 11.68                   | 59.04                      | 100                  | 0                       | P                     | V             |
|                             |        |   |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
|                             |        |   |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
|                             |        |   |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
| 802.11g<br>CH 06<br>2437MHz |        | 4872  | 38.23                     | -35.77                  | 74                                | 52.1                            | 33.54                         | 11.53                   | 58.94                      | 100                  | 0                       | P                     | H             |
|                             |        | 7308  | 39.03                     | -34.97                  | 74                                | 48.46                           | 34.69                         | 13.81                   | 57.93                      | 100                  | 0                       | P                     | H             |
|                             |        |   |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|                             |        | 4872  | 37.72                     | -36.28                  | 74                                | 51.59                           | 33.54                         | 11.53                   | 58.94                      | 100                  | 0                       | P                     | V             |
|                             |        | 7308  | 38.45                     | -35.55                  | 74                                | 47.88                           | 34.69                         | 13.81                   | 57.93                      | 100                  | 0                       | P                     | V             |
|                             |        |   |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
|                             |        |   |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
|                             |        |   |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
| 802.11g<br>CH 11<br>2462MHz |        | 4926  | 39.39                     | -34.61                  | 74                                | 53.42                           | 33.44                         | 11.37                   | 58.84                      | 100                  | 0                       | P                     | H             |
|                             |        | 7386  | 38.68                     | -35.32                  | 74                                | 48.32                           | 34.47                         | 13.95                   | 58.06                      | 100                  | 0                       | P                     | H             |
|                             |        |   |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|                             |        | 4926  | 39.62                     | -34.38                  | 74                                | 53.65                           | 33.44                         | 11.37                   | 58.84                      | 100                  | 0                       | P                     | V             |
|                             |        | 7386  | 39.33                     | -34.67                  | 74                                | 48.97                           | 34.47                         | 13.95                   | 58.06                      | 100                  | 0                       | P                     | V             |
|                             |        |   |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
|                             |        |   |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
|                             | Remark | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       |               |



|                             |   |      |       |        |    |       |       |       |       |     |   |   |   |
|-----------------------------|---|------|-------|--------|----|-------|-------|-------|-------|-----|---|---|---|
| 802.11g<br>CH 12<br>2467MHz |   | 4934 | 38.44 | -35.56 | 74 | 52.47 | 33.44 | 11.37 | 58.84 | 100 | 0 | P | H |
|                             |   | 7401 | 40.22 | -33.78 | 74 | 49.93 | 34.42 | 13.95 | 58.08 | 100 | 0 | P | H |
|                             |   |      |       |        |    |       |       |       |       |     |   |   | H |
|                             |   |      |       |        |    |       |       |       |       |     |   |   | H |
|                             |   | 4934 | 38.82 | -35.18 | 74 | 52.85 | 33.44 | 11.37 | 58.84 | 100 | 0 | P | V |
|                             |   | 7401 | 39.06 | -34.94 | 74 | 48.77 | 34.42 | 13.95 | 58.08 | 100 | 0 | P | V |
|                             |   |      |       |        |    |       |       |       |       |     |   |   | V |
|                             |   |      |       |        |    |       |       |       |       |     |   |   | V |
|                             |   |      |       |        |    |       |       |       |       |     |   |   |   |
| 802.11g<br>CH 13<br>2472MHz |   | 4944 | 38.35 | -35.65 | 74 | 52.53 | 33.4  | 11.22 | 58.8  | 100 | 0 | P | H |
|                             |   | 7416 | 38.98 | -35.02 | 74 | 48.69 | 34.42 | 13.95 | 58.08 | 100 | 0 | P | H |
|                             |   |      |       |        |    |       |       |       |       |     |   |   | H |
|                             |   |      |       |        |    |       |       |       |       |     |   |   | H |
|                             |   | 4944 | 38.47 | -35.53 | 74 | 52.65 | 33.4  | 11.22 | 58.8  | 100 | 0 | P | V |
|                             |   | 7416 | 39.74 | -34.26 | 74 | 49.45 | 34.42 | 13.95 | 58.08 | 100 | 0 | P | V |
|                             |   |      |       |        |    |       |       |       |       |     |   |   | V |
|                             |   |      |       |        |    |       |       |       |       |     |   |   | V |
|                             |   |      |       |        |    |       |       |       |       |     |   |   |   |
| Remark                      | 3. No other spurious found.<br>4. All results are PASS against Peak and Average limit line. |      |       |        |    |       |       |       |       |     |   |   |   |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11n HT20 (Band Edge @ 3m)

| WIFI<br>Ant.<br>1                               | Note | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|---|------|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br><br>HT20<br><br>CH 01<br><br>2412MHz |      | 2389.38              | 62.47                     | -11.53                  | 74                                | 57.94                           | 32.19                         | 7.31                    | 34.97                      | 283                  | 134                     | P                     | H             |
|   |      | 2389.905             | 49.1                      | -4.9                    | 54                                | 44.58                           | 32.19                         | 7.31                    | 34.98                      | 283                  | 134                     | A                     | H             |
|   | *    | 2412                 | 106.96                    | -                       | -                                 | 102.39                          | 32.24                         | 7.31                    | 34.98                      | 283                  | 134                     | P                     | H             |
|   | *    | 2412                 | 98.97                     | -                       | -                                 | 94.4                            | 32.24                         | 7.31                    | 34.98                      | 283                  | 134                     | A                     | H             |
|   |      |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|   |      |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|   |      |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       |               |
|   |      | 2389.485             | 63.4                      | -10.6                   | 74                                | 58.87                           | 32.19                         | 7.31                    | 34.97                      | 308                  | 174                     | P                     | V             |
|   |      | 2389.8               | 52.33                     | -1.67                   | 54                                | 47.81                           | 32.19                         | 7.31                    | 34.98                      | 308                  | 174                     | A                     | V             |
|   | *    | 2412                 | 110.83                    | -                       | -                                 | 106.26                          | 32.24                         | 7.31                    | 34.98                      | 308                  | 174                     | P                     | V             |
|   | *    | 2412                 | 103.11                    | -                       | -                                 | 98.54                           | 32.24                         | 7.31                    | 34.98                      | 308                  | 174                     | A                     | V             |
|   |      |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
|   |      |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
| 802.11n<br><br>HT20<br><br>CH 06<br><br>2437MHz |      | 2386.16              | 55.25                     | -18.75                  | 74                                | 50.72                           | 32.19                         | 7.31                    | 34.97                      | 312                  | 133                     | P                     | H             |
|   |      | 2389.94              | 45.82                     | -8.18                   | 54                                | 41.3                            | 32.19                         | 7.31                    | 34.98                      | 312                  | 133                     | A                     | H             |
|   | *    | 2437                 | 107.64                    | -                       | -                                 | 102.93                          | 32.34                         | 7.36                    | 34.99                      | 312                  | 133                     | P                     | H             |
|   | *    | 2437                 | 99.77                     | -                       | -                                 | 95.06                           | 32.34                         | 7.36                    | 34.99                      | 312                  | 133                     | A                     | H             |
|   |      | 2490.2               | 55.46                     | -18.54                  | 74                                | 50.56                           | 32.5                          | 7.4                     | 35                         | 312                  | 133                     | P                     | H             |
|   |      | 2486.42              | 45.65                     | -8.35                   | 54                                | 40.8                            | 32.45                         | 7.4                     | 35                         | 312                  | 133                     | A                     | H             |
|   |      | 2383.36              | 57.24                     | -16.76                  | 74                                | 52.76                           | 32.14                         | 7.31                    | 34.97                      | 311                  | 175                     | P                     | V             |
|   |      | 2389.8               | 46.47                     | -7.53                   | 54                                | 41.95                           | 32.19                         | 7.31                    | 34.98                      | 311                  | 175                     | A                     | V             |
|   | *    | 2437                 | 110.99                    | -                       | -                                 | 106.28                          | 32.34                         | 7.36                    | 34.99                      | 311                  | 175                     | P                     | V             |
|   | *    | 2437                 | 103.09                    | -                       | -                                 | 98.38                           | 32.34                         | 7.36                    | 34.99                      | 311                  | 175                     | A                     | V             |
|   |      | 2484.81              | 57.87                     | -16.13                  | 74                                | 53.02                           | 32.45                         | 7.4                     | 35                         | 311                  | 175                     | P                     | V             |
|   |      | 2486.84              | 46.85                     | -7.15                   | 54                                | 42                              | 32.45                         | 7.4                     | 35                         | 311                  | 175                     | A                     | V             |



|                                     |   |         |        |        |    |        |       |     |       |     |     |   |   |
|-------------------------------------|---|---------|--------|--------|----|--------|-------|-----|-------|-----|-----|---|---|
| 802.11n<br>HT20<br>CH 11<br>2462MHz | *   | 2462    | 104.98 | -      | -  | 100.17 | 32.4  | 7.4 | 34.99 | 306 | 130 | P | H |
|                                     | *   | 2462    | 97.47  | -      | -  | 92.66  | 32.4  | 7.4 | 34.99 | 306 | 130 | A | H |
|                                     |   | 2483.52 | 57.75  | -16.25 | 74 | 52.9   | 32.45 | 7.4 | 35    | 306 | 130 | P | H |
|                                     |   | 2483.56 | 48.03  | -5.97  | 54 | 43.18  | 32.45 | 7.4 | 35    | 306 | 130 | A | H |
|                                     |   |         |        |        |    |        |       |     |       |     |     |   | H |
|                                     |   |         |        |        |    |        |       |     |       |     |     |   | H |
|                                     | *   | 2462    | 110.24 | -      | -  | 105.43 | 32.4  | 7.4 | 34.99 | 265 | 195 | P | V |
|                                     | *   | 2462    | 102.59 | -      | -  | 97.78  | 32.4  | 7.4 | 34.99 | 265 | 195 | A | V |
|                                     |   | 2483.52 | 65.68  | -8.32  | 74 | 60.83  | 32.45 | 7.4 | 35    | 265 | 195 | P | V |
|                                     |   | 2483.52 | 53.3   | -0.7   | 54 | 48.45  | 32.45 | 7.4 | 35    | 265 | 195 | A | V |
|                                     |   |         |        |        |    |        |       |     |       |     |     |   | V |
|                                     |   |         |        |        |    |        |       |     |       |     |     |   | V |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |     |       |     |     |   |   |



|                                     |   |         |        |        |    |        |       |     |    |     |     |   |   |
|-------------------------------------|---|---------|--------|--------|----|--------|-------|-----|----|-----|-----|---|---|
| 802.11n<br>HT20<br>CH 12<br>2467MHz | * | 2467    | 100.63 | -      | -  | 95.83  | 32.4  | 7.4 | 35 | 299 | 134 | P | H |
|                                     | * | 2467    | 92.52  | -      | -  | 87.72  | 32.4  | 7.4 | 35 | 299 | 134 | A | H |
|                                     |   | 2484.08 | 60.36  | -13.64 | 74 | 55.51  | 32.45 | 7.4 | 35 | 299 | 134 | P | H |
|                                     |   | 2483.56 | 48.43  | -5.57  | 54 | 43.58  | 32.45 | 7.4 | 35 | 299 | 134 | A | H |
|                                     |   |         |        |        |    |        |       |     |    |     |     |   | H |
|                                     |   |         |        |        |    |        |       |     |    |     |     |   | H |
|                                     |   |         |        |        |    |        |       |     |    |     |     |   | V |
|                                     | * | 2467    | 105.98 | -      | -  | 101.18 | 32.4  | 7.4 | 35 | 268 | 183 | P | V |
|                                     | * | 2467    | 98     | -      | -  | 93.2   | 32.4  | 7.4 | 35 | 268 | 183 | A | V |
|                                     |   | 2483.64 | 66.94  | -7.06  | 74 | 62.09  | 32.45 | 7.4 | 35 | 268 | 183 | P | V |
| 802.11n<br>HT20<br>CH 13<br>2472MHz |   | 2483.52 | 52.01  | -1.99  | 54 | 47.16  | 32.45 | 7.4 | 35 | 268 | 183 | A | V |
|                                     |   |         |        |        |    |        |       |     |    |     |     |   | V |
|                                     |   |         |        |        |    |        |       |     |    |     |     |   | V |
|                                     | * | 2472    | 85.88  | -      | -  | 81.03  | 32.45 | 7.4 | 35 | 300 | 133 | P | H |
|                                     | * | 2472    | 77.99  | -      | -  | 73.14  | 32.45 | 7.4 | 35 | 300 | 133 | A | H |
|                                     |   | 2483.68 | 60.94  | -13.06 | 74 | 56.09  | 32.45 | 7.4 | 35 | 300 | 133 | P | H |
|                                     |   | 2483.52 | 49.16  | -4.84  | 54 | 44.31  | 32.45 | 7.4 | 35 | 300 | 133 | A | H |
|                                     |   |         |        |        |    |        |       |     |    |     |     |   | H |
|                                     |   |         |        |        |    |        |       |     |    |     |     |   | H |
|                                     | * | 2472    | 91.33  | -      | -  | 86.48  | 32.45 | 7.4 | 35 | 267 | 181 | P | V |
| Remark                              | * | 2472    | 83.56  | -      | -  | 78.71  | 32.45 | 7.4 | 35 | 267 | 181 | A | V |
|                                     |   | 2483.96 | 65.51  | -8.49  | 74 | 60.66  | 32.45 | 7.4 | 35 | 267 | 181 | P | V |
|                                     |   | 2483.56 | 53.52  | -0.48  | 54 | 48.67  | 32.45 | 7.4 | 35 | 267 | 181 | A | V |
|                                     |   |         |        |        |    |        |       |     |    |     |     |   | V |
|                                     |   |         |        |        |    |        |       |     |    |     |     |   | V |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI<br>Ant.<br>1                   | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT20<br>CH 01<br>2412MHz |   | 4824                 | 39.8                      | -34.2                   | 74                                | 53.52                           | 33.64                         | 11.68                   | 59.04                      | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|                                     |   | 4824                 | 42.09                     | -31.91                  | 74                                | 55.81                           | 33.64                         | 11.68                   | 59.04                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 06<br>2437MHz |   | 4872                 | 38                        | -36                     | 74                                | 51.87                           | 33.54                         | 11.53                   | 58.94                      | 100                  | 0                       | P                     | H             |
|                                     |   | 7308                 | 38.98                     | -35.02                  | 74                                | 48.41                           | 34.69                         | 13.81                   | 57.93                      | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|                                     |   | 4872                 | 39.12                     | -34.88                  | 74                                | 52.99                           | 33.54                         | 11.53                   | 58.94                      | 100                  | 0                       | P                     | V             |
|                                     |   | 7308                 | 39.45                     | -34.55                  | 74                                | 48.88                           | 34.69                         | 13.81                   | 57.93                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 11<br>2462MHz |   | 4926                 | 39.69                     | -34.31                  | 74                                | 53.72                           | 33.44                         | 11.37                   | 58.84                      | 100                  | 0                       | P                     | H             |
|                                     |   | 7386                 | 38.6                      | -35.4                   | 74                                | 48.24                           | 34.47                         | 13.95                   | 58.06                      | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|                                     |   | 4926                 | 38.41                     | -35.59                  | 74                                | 52.44                           | 33.44                         | 11.37                   | 58.84                      | 100                  | 0                       | P                     | V             |
|                                     |   | 7386                 | 38.32                     | -35.68                  | 74                                | 47.96                           | 34.47                         | 13.95                   | 58.06                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       |               |



|         |   |      |       |        |    |       |       |       |       |     |   |   |   |
|---------|---|------|-------|--------|----|-------|-------|-------|-------|-----|---|---|---|
|         |   | 4934 | 39.69 | -34.31 | 74 | 53.72 | 33.44 | 11.37 | 58.84 | 100 | 0 | P | H |
|         |   | 7401 | 38.58 | -35.42 | 74 | 48.29 | 34.42 | 13.95 | 58.08 | 100 | 0 | P | H |
| 802.11n |   |      |       |        |    |       |       |       |       |     |   |   | H |
| HT20    |   |      |       |        |    |       |       |       |       |     |   |   | H |
| CH 12   |   | 4934 | 38.68 | -35.32 | 74 | 52.71 | 33.44 | 11.37 | 58.84 | 100 | 0 | P | V |
| 2467MHz |   | 7401 | 39.16 | -34.84 | 74 | 48.87 | 34.42 | 13.95 | 58.08 | 100 | 0 | P | V |
|         |   |      |       |        |    |       |       |       |       |     |   |   | V |
|         |   |      |       |        |    |       |       |       |       |     |   |   | V |
|         |   | 4944 | 39.72 | -34.28 | 74 | 53.9  | 33.4  | 11.22 | 58.8  | 100 | 0 | P | H |
|         |   | 7416 | 38.56 | -35.44 | 74 | 48.27 | 34.42 | 13.95 | 58.08 | 100 | 0 | P | H |
| 802.11n |   |      |       |        |    |       |       |       |       |     |   |   | H |
| HT20    |   |      |       |        |    |       |       |       |       |     |   |   | H |
| CH 13   |   | 4944 | 38.78 | -35.22 | 74 | 52.96 | 33.4  | 11.22 | 58.8  | 100 | 0 | P | V |
| 2472MHz |   | 7416 | 38.35 | -35.65 | 74 | 48.06 | 34.42 | 13.95 | 58.08 | 100 | 0 | P | V |
|         |   |      |       |        |    |       |       |       |       |     |   |   | V |
|         |   |      |       |        |    |       |       |       |       |     |   |   | V |
| Remark  | 3. No other spurious found.<br>4. All results are PASS against Peak and Average limit line. |      |       |        |    |       |       |       |       |     |   |   |   |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI<br>Ant.<br>1                               | Note | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|---|------|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br><br>HT40<br><br>CH 03<br><br>2422MHz |      | 2386.44              | 57.32                     | -16.68                  | 74                                | 52.79                           | 32.19                         | 7.31                    | 34.97                      | 312                  | 132                     | P                     | H             |
|   |      | 2385.32              | 51.65                     | -2.35                   | 54                                | 47.17                           | 32.14                         | 7.31                    | 34.97                      | 312                  | 132                     | A                     | H             |
|   | *    | 2422                 | 104.85                    | -                       | -                                 | 100.19                          | 32.29                         | 7.36                    | 34.99                      | 312                  | 132                     | P                     | H             |
|   | *    | 2422                 | 97.04                     | -                       | -                                 | 92.38                           | 32.29                         | 7.36                    | 34.99                      | 312                  | 132                     | A                     | H             |
|   |      | 2491.04              | 55.46                     | -18.54                  | 74                                | 50.56                           | 32.5                          | 7.4                     | 35                         | 312                  | 132                     | P                     | H             |
|   |      | 2484.81              | 46.2                      | -7.8                    | 54                                | 41.35                           | 32.45                         | 7.4                     | 35                         | 312                  | 132                     | A                     | H             |
|   |      | 2385.18              | 61.46                     | -12.54                  | 74                                | 56.98                           | 32.14                         | 7.31                    | 34.97                      | 311                  | 174                     | P                     | V             |
|   |      | 2388.26              | 52.77                     | -1.23                   | 54                                | 48.24                           | 32.19                         | 7.31                    | 34.97                      | 311                  | 174                     | A                     | V             |
|   | *    | 2422                 | 108.96                    | -                       | -                                 | 104.3                           | 32.29                         | 7.36                    | 34.99                      | 311                  | 174                     | P                     | V             |
|   | *    | 2422                 | 100.59                    | -                       | -                                 | 95.93                           | 32.29                         | 7.36                    | 34.99                      | 311                  | 174                     | A                     | V             |
| 802.11n<br><br>HT40<br><br>CH 06<br><br>2437MHz |      | 2493.14              | 56.59                     | -17.41                  | 74                                | 51.7                            | 32.5                          | 7.4                     | 35.01                      | 311                  | 174                     | P                     | V             |
|   |      | 2484.18              | 47.21                     | -6.79                   | 54                                | 42.36                           | 32.45                         | 7.4                     | 35                         | 311                  | 174                     | A                     | V             |
|   |      | 2385.46              | 55.32                     | -18.68                  | 74                                | 50.84                           | 32.14                         | 7.31                    | 34.97                      | 311                  | 132                     | P                     | H             |
|   |      | 2389.66              | 47.13                     | -6.87                   | 54                                | 42.6                            | 32.19                         | 7.31                    | 34.97                      | 311                  | 132                     | A                     | H             |
|   | *    | 2437                 | 104.99                    | -                       | -                                 | 100.28                          | 32.34                         | 7.36                    | 34.99                      | 311                  | 132                     | P                     | H             |
|   | *    | 2437                 | 96.96                     | -                       | -                                 | 92.25                           | 32.34                         | 7.36                    | 34.99                      | 311                  | 132                     | A                     | H             |
|   |      | 2483.83              | 60.93                     | -13.07                  | 74                                | 56.08                           | 32.45                         | 7.4                     | 35                         | 311                  | 132                     | P                     | H             |
|   |      | 2483.69              | 49.23                     | -4.77                   | 54                                | 44.38                           | 32.45                         | 7.4                     | 35                         | 311                  | 132                     | A                     | H             |
|   |      | 2388.26              | 57.57                     | -16.43                  | 74                                | 53.04                           | 32.19                         | 7.31                    | 34.97                      | 313                  | 173                     | P                     | V             |
|   |      | 2388.26              | 49.05                     | -4.95                   | 54                                | 44.52                           | 32.19                         | 7.31                    | 34.97                      | 313                  | 173                     | A                     | V             |
|   | *    | 2437                 | 107.9                     | -                       | -                                 | 103.19                          | 32.34                         | 7.36                    | 34.99                      | 313                  | 173                     | P                     | V             |
|   | *    | 2437                 | 100.33                    | -                       | -                                 | 95.62                           | 32.34                         | 7.36                    | 34.99                      | 313                  | 173                     | A                     | V             |
|   |      | 2483.52              | 63.62                     | -10.38                  | 74                                | 58.77                           | 32.45                         | 7.4                     | 35                         | 313                  | 173                     | P                     | V             |
|   |      | 2483.9               | 53.65                     | -0.35                   | 54                                | 48.8                            | 32.45                         | 7.4                     | 35                         | 313                  | 173                     | A                     | V             |



|                |   |        |        |    |        |       |      |       |     |     |   |   |
|----------------|---|--------|--------|----|--------|-------|------|-------|-----|-----|---|---|
|                | 2361.94   | 54.31  | -19.69 | 74 | 49.95  | 32.09 | 7.24 | 34.97 | 346 | 133 | P | H |
|                | 2383.64   | 45.6   | -8.4   | 54 | 41.12  | 32.14 | 7.31 | 34.97 | 346 | 133 | A | H |
| *              | 2452  | 101.49 | -      | -  | 96.78  | 32.34 | 7.36 | 34.99 | 346 | 133 | P | H |
| *              | 2452  | 93.36  | -      | -  | 88.65  | 32.34 | 7.36 | 34.99 | 346 | 133 | A | H |
| <b>802.11n</b> | 2492.3  | 55.6   | -18.4  | 74 | 50.71  | 32.5  | 7.4  | 35.01 | 346 | 133 | P | H |
| <b>HT40</b>    | 2485.37   | 46.04  | -7.96  | 54 | 41.19  | 32.45 | 7.4  | 35    | 346 | 133 | A | H |
| <b>CH 09</b>   | 2347.38   | 55.99  | -18.01 | 74 | 51.69  | 32.03 | 7.24 | 34.97 | 338 | 176 | P | V |
| <b>2452MHz</b> | 2388.4  | 46.08  | -7.92  | 54 | 41.55  | 32.19 | 7.31 | 34.97 | 338 | 176 | A | V |
| *              | 2452  | 106.63 | -      | -  | 101.92 | 32.34 | 7.36 | 34.99 | 338 | 176 | P | V |
| *              | 2452  | 97.92  | -      | -  | 93.21  | 32.34 | 7.36 | 34.99 | 338 | 176 | A | V |
|                | 2483.9  | 57.93  | -16.07 | 74 | 53.08  | 32.45 | 7.4  | 35    | 338 | 176 | P | V |
|                | 2484.04   | 48.86  | -5.14  | 54 | 44.01  | 32.45 | 7.4  | 35    | 338 | 176 | A | V |
| <b>Remark</b>  | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |        |        |    |        |       |      |       |     |     |   |   |



|         |       |   |        |        |    |       |       |      |       |     |     |   |   |
|---------|-------|---|--------|--------|----|-------|-------|------|-------|-----|-----|---|---|
| 2457MHz |       | 2389.38   | 54.63  | -19.37 | 74 | 50.1  | 32.19 | 7.31 | 34.97 | 300 | 133 | P | H |
|         |       | 2382.66   | 44.94  | -9.06  | 54 | 40.46 | 32.14 | 7.31 | 34.97 | 300 | 133 | A | H |
|         | *     | 2457  | 98.64  | -      | -  | 93.87 | 32.4  | 7.36 | 34.99 | 300 | 133 | P | H |
|         | *     | 2457  | 90.67  | -      | -  | 85.9  | 32.4  | 7.36 | 34.99 | 300 | 133 | A | H |
|         |       | 2484.18   | 57.53  | -16.47 | 74 | 52.68 | 32.45 | 7.4  | 35    | 300 | 133 | P | H |
|         | HT40  | 2483.52   | 49.33  | -4.67  | 54 | 44.48 | 32.45 | 7.4  | 35    | 300 | 133 | A | H |
|         | CH 10 | 2354.94   | 56.1   | -17.9  | 74 | 51.74 | 32.09 | 7.24 | 34.97 | 267 | 185 | P | V |
|         |       | 2385.32   | 45.13  | -8.87  | 54 | 40.65 | 32.14 | 7.31 | 34.97 | 267 | 185 | A | V |
|         | *     | 2457  | 104.56 | -      | -  | 99.79 | 32.4  | 7.36 | 34.99 | 267 | 185 | P | V |
|         | *     | 2457  | 96.47  | -      | -  | 91.7  | 32.4  | 7.36 | 34.99 | 267 | 185 | A | V |
| 2462MHz |       | 2483.52   | 62.99  | -11.01 | 74 | 58.14 | 32.45 | 7.4  | 35    | 267 | 185 | P | V |
|         |       | 2483.52   | 53.56  | -0.44  | 54 | 48.71 | 32.45 | 7.4  | 35    | 267 | 185 | A | V |
|         |       | 2363.2  | 54.58  | -19.42 | 74 | 50.22 | 32.09 | 7.24 | 34.97 | 300 | 133 | P | H |
|         |       | 2375.52   | 44.81  | -9.19  | 54 | 40.4  | 32.14 | 7.24 | 34.97 | 300 | 133 | A | H |
|         | *     | 2462  | 82.29  | -      | -  | 77.48 | 32.4  | 7.4  | 34.99 | 300 | 133 | P | H |
|         | *     | 2462  | 73.99  | -      | -  | 69.18 | 32.4  | 7.4  | 34.99 | 300 | 133 | A | H |
|         |       | 2483.76   | 58.07  | -15.93 | 74 | 53.22 | 32.45 | 7.4  | 35    | 300 | 133 | P | H |
|         | HT40  | 2483.52   | 48.86  | -5.14  | 54 | 44.01 | 32.45 | 7.4  | 35    | 300 | 133 | A | H |
|         | CH 11 | 2387.14   | 55.31  | -18.69 | 74 | 50.78 | 32.19 | 7.31 | 34.97 | 269 | 183 | P | V |
|         |       | 2383.5  | 44.97  | -9.03  | 54 | 40.49 | 32.14 | 7.31 | 34.97 | 269 | 183 | A | V |
| Remark  | 3.    | No other spurious found.                                  |        |        |    |       |       |      |       |     |     |   |   |
|         | 4.    | All results are PASS against Peak and Average limit line. |        |        |    |       |       |      |       |     |     |   |   |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI<br>Ant.<br>1                   | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT40<br>CH 03<br>2422MHz |   | 4842                 | 39.35                     | -34.65                  | 74                                | 53.07                           | 33.61                         | 11.68                   | 59.01                      | 100                  | 0                       | P                     | H             |
|                                     |   | 7266                 | 40.17                     | -33.83                  | 74                                | 49.53                           | 34.78                         | 13.75                   | 57.89                      | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|                                     |   | 4842                 | 39.18                     | -34.82                  | 74                                | 52.9                            | 33.61                         | 11.68                   | 59.01                      | 100                  | 0                       | P                     | V             |
|                                     |   | 7266                 | 39.71                     | -34.29                  | 74                                | 49.07                           | 34.78                         | 13.75                   | 57.89                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
| 802.11n<br>HT40<br>CH 06<br>2437MHz |   | 4872                 | 38.26                     | -35.74                  | 74                                | 52.13                           | 33.54                         | 11.53                   | 58.94                      | 100                  | 0                       | P                     | H             |
|                                     |   | 7308                 | 39.38                     | -34.62                  | 74                                | 48.81                           | 34.69                         | 13.81                   | 57.93                      | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|                                     |   | 4872                 | 38.65                     | -35.35                  | 74                                | 52.52                           | 33.54                         | 11.53                   | 58.94                      | 100                  | 0                       | P                     | V             |
|                                     |   | 7308                 | 38.95                     | -35.05                  | 74                                | 48.38                           | 34.69                         | 13.81                   | 57.93                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
| 802.11n<br>HT40<br>CH 09<br>2452MHz |   | 4902                 | 37.97                     | -36.03                  | 74                                | 52                              | 33.47                         | 11.37                   | 58.87                      | 100                  | 0                       | P                     | H             |
|                                     |   | 7356                 | 38.83                     | -35.17                  | 74                                | 48.4                            | 34.56                         | 13.88                   | 58.01                      | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|                                     |   | 4902                 | 38.33                     | -35.67                  | 74                                | 52.36                           | 33.47                         | 11.37                   | 58.87                      | 100                  | 0                       | P                     | V             |
|                                     |   | 7356                 | 39.2                      | -34.8                   | 74                                | 48.77                           | 34.56                         | 13.88                   | 58.01                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       |               |



|         |   |      |       |        |    |       |       |       |       |     |   |   |   |
|---------|---|------|-------|--------|----|-------|-------|-------|-------|-----|---|---|---|
|         |   | 4914 | 38.62 | -35.38 | 74 | 52.65 | 33.47 | 11.37 | 58.87 | 100 | 0 | P | H |
|         |   | 7371 | 38.42 | -35.58 | 74 | 48.06 | 34.51 | 13.88 | 58.03 | 100 | 0 | P | H |
| 802.11n |   |      |       |        |    |       |       |       |       |     |   |   | H |
| HT40    |   |      |       |        |    |       |       |       |       |     |   |   | H |
| CH 10   |   | 4914 | 38.41 | -35.59 | 74 | 52.44 | 33.47 | 11.37 | 58.87 | 100 | 0 | P | V |
| 2457MHz |   | 7371 | 38.57 | -35.43 | 74 | 48.21 | 34.51 | 13.88 | 58.03 | 100 | 0 | P | V |
|         |   |      |       |        |    |       |       |       |       |     |   |   | V |
|         |   |      |       |        |    |       |       |       |       |     |   |   | V |
|         |   | 4924 | 38.14 | -35.86 | 74 | 52.17 | 33.44 | 11.37 | 58.84 | 100 | 0 | P | H |
|         |   | 7386 | 39.6  | -34.4  | 74 | 49.24 | 34.47 | 13.95 | 58.06 | 100 | 0 | P | H |
| 802.11n |   |      |       |        |    |       |       |       |       |     |   |   | H |
| HT40    |   |      |       |        |    |       |       |       |       |     |   |   | H |
| CH 11   |   | 4924 | 39.05 | -34.95 | 74 | 53.08 | 33.44 | 11.37 | 58.84 | 100 | 0 | P | V |
| 2462MHz |   | 7386 | 39.33 | -34.67 | 74 | 48.97 | 34.47 | 13.95 | 58.06 | 100 | 0 | P | V |
|         |   |      |       |        |    |       |       |       |       |     |   |   | V |
|         |   |      |       |        |    |       |       |       |       |     |   |   | V |
| Remark  | 3. No other spurious found.<br>4. All results are PASS against Peak and Average limit line. |      |       |        |    |       |       |       |       |     |   |   |   |



2.4GHz 2400~2483.5MHz

## Emission below 1GHz

## 2.4GHz WIFI 802.11n HT40 (LF)

| WIFI<br>Ant.                    | Note   | Frequency | Level            | Over<br>Limit | Limit<br>Line    | Read<br>Level | Antenna<br>Factor | Cable<br>Loss | Preamp<br>Factor | Ant<br>Pos | Table<br>Pos | Peak<br>Avg. | Pol.  |
|---------------------------------|--|-----------|------------------|---------------|------------------|---------------|-------------------|---------------|------------------|------------|--------------|--------------|-------|
| 1                               |  | ( MHz )   | ( dB $\mu$ V/m ) | ( dB )        | ( dB $\mu$ V/m ) | (dB $\mu$ V)  | ( dB/m )          | ( dB )        | ( dB )           | ( cm )     | ( deg )      | (P/A)        | (H/V) |
| 2.4GHz<br>802.11n<br>HT40<br>LF |  | 59.43     | 31.92            | -8.08         | 40               | 50.12         | 12.31             | 1.07          | 31.58            | 100        | 0            | P            | H     |
|                                 |  | 168.24    | 30.69            | -12.81        | 43.5             | 44.3          | 16.1              | 1.78          | 31.49            | -          | -            | P            | H     |
|                                 |  | 277.86    | 30.43            | -15.57        | 46               | 40.11         | 19.32             | 2.32          | 31.32            | -          | -            | P            | H     |
|                                 |  | 344.1     | 31.87            | -14.13        | 46               | 39.56         | 21.04             | 2.5           | 31.23            | -          | -            | P            | H     |
|                                 |  | 883.8     | 32.15            | -13.85        | 46               | 29.63         | 28.9              | 4.17          | 30.55            | -          | -            | P            | H     |
|                                 |  | 930       | 33.5             | -12.5         | 46               | 30.18         | 29.73             | 4.12          | 30.53            | -          | -            | P            | H     |
|                                 |  |           |                  |               |                  |               |                   |               |                  |            |              |              | H     |
|                                 |  |           |                  |               |                  |               |                   |               |                  |            |              |              | H     |
|                                 |  |           |                  |               |                  |               |                   |               |                  |            |              |              | H     |
|                                 |  |           |                  |               |                  |               |                   |               |                  |            |              |              | H     |
|                                 |  |           |                  |               |                  |               |                   |               |                  |            |              |              | H     |
|                                 |  |           |                  |               |                  |               |                   |               |                  |            |              |              | H     |
|                                 |  |           |                  |               |                  |               |                   |               |                  |            |              |              | H     |
|                                 |  |           |                  |               |                  |               |                   |               |                  |            |              |              | V     |
| Remark                          | 1. No other spurious found.<br>2. All results are PASS against limit line. |           |                  |               |                  |               |                   |               |                  |            |              |              |       |

**Note symbol**

|     |  |
|-----|--|
| *   | <b>Fundamental Frequency</b> which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency. |
| !   | Test result is <b>over limit</b> line.   |
| P/A | <b>Peak or Average</b>   |
| H/V | <b>Horizontal or Vertical</b>  |



A calculation example for radiated spurious emission is shown as below:

| WIFI    | Note | Frequency | Level            | Over   | Limit            | Read           | Antenna  | Cable  | Preamp | Ant    | Table   | Peak    | Pol.    |
|---------|------|-----------|------------------|--------|------------------|----------------|----------|--------|--------|--------|---------|---------|---------|
| Ant.    |      |           |                  | Limit  | Line             | Level          | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1       |      | ( MHz )   | ( dB $\mu$ V/m ) | ( dB ) | ( dB $\mu$ V/m ) | ( dB $\mu$ V ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11b |      | 2390      | 55.45            | -18.55 | 74               | 54.51          | 32.22    | 4.58   | 35.86  | 103    | 308     | P       | H       |
| CH 01   |      |           |                  |        |                  |                |          |        |        |        |         |         |         |
| 2412MHz |      | 2390      | 43.54            | -10.46 | 54               | 42.6           | 32.22    | 4.58   | 35.86  | 103    | 308     | A       | H       |

1. Level(dB $\mu$ V/m) =

$$= \text{Antenna Factor(dB/m)} + \text{Cable Loss(dB)} + \text{Read Level(dB $\mu$ V)} - \text{Preamp Factor(dB)}$$

2. Over Limit(dB) = Level(dB $\mu$ V/m) – Limit Line(dB $\mu$ V/m)

#### For Peak Limit @ 2390MHz:

1. Level(dB $\mu$ V/m)

$$= \text{Antenna Factor(dB/m)} + \text{Cable Loss(dB)} + \text{Read Level(dB $\mu$ V)} - \text{Preamp Factor(dB)}$$

$$= 32.22(\text{dB/m}) + 4.58(\text{dB}) + 54.51(\text{dB $\mu$ V}) - 35.86 (\text{dB})$$

$$= 55.45 (\text{dB $\mu$ V/m})$$

2. Over Limit(dB)

$$= \text{Level(dB $\mu$ V/m)} - \text{Limit Line(dB $\mu$ V/m)}$$

$$= 55.45(\text{dB $\mu$ V/m}) - 74(\text{dB $\mu$ V/m})$$

$$= -18.55(\text{dB})$$

#### For Average Limit @ 2390MHz:

1. Level(dB $\mu$ V/m)

$$= \text{Antenna Factor(dB/m)} + \text{Cable Loss(dB)} + \text{Read Level(dB $\mu$ V)} - \text{Preamp Factor(dB)}$$

$$= 32.22(\text{dB/m}) + 4.58(\text{dB}) + 42.6(\text{dB $\mu$ V}) - 35.86 (\text{dB})$$

$$= 43.54 (\text{dB $\mu$ V/m})$$

2. Over Limit(dB)

$$= \text{Level(dB $\mu$ V/m)} - \text{Limit Line(dB $\mu$ V/m)}$$

$$= 43.54(\text{dB $\mu$ V/m}) - 54(\text{dB $\mu$ V/m})$$

$$= -10.46(\text{dB})$$

Both peak and average measured complies with the limit line, so test result is “PASS”.



2.4GHz 2400~2483.5MHz

## WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI    | Note   | Frequency   | Level            | Over   | Limit            | Read           | Antenna  | Cable  | Preamp | Ant    | Table   | Peak    | Pol.    |
|---------|--------|---|------------------|--------|------------------|----------------|----------|--------|--------|--------|---------|---------|---------|
| Ant.    |        |   |                  | Limit  | Line             | Level          | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 2       |        | ( MHz )   | ( dB $\mu$ V/m ) | ( dB ) | ( dB $\mu$ V/m ) | ( dB $\mu$ V ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11n |        | 2384.76   | 55.45            | -18.55 | 74               | 50.97          | 32.14    | 7.31   | 34.97  | 359    | 109     | P       | H       |
|         |        | 2385.6  | 47.18            | -6.82  | 54               | 42.65          | 32.19    | 7.31   | 34.97  | 359    | 109     | A       | H       |
|         | *      | 2437  | 104.31           | -      | -                | 99.65          | 32.29    | 7.36   | 34.99  | 359    | 109     | P       | H       |
|         | *      | 2437  | 96.19            | -      | -                | 91.53          | 32.29    | 7.36   | 34.99  | 359    | 109     | A       | H       |
|         |        | 2499.02   | 54.81            | -19.19 | 74               | 49.92          | 32.5     | 7.4    | 35.01  | 359    | 109     | P       | H       |
| HT40    |        | 2498.88   | 45.88            | -8.12  | 54               | 40.99          | 32.5     | 7.4    | 35.01  | 359    | 109     | A       | H       |
|         |        | 2389.24   | 60.53            | -13.47 | 74               | 56             | 32.19    | 7.31   | 34.97  | 283    | 171     | P       | V       |
|         |        | 2388.4  | 52.64            | -1.36  | 54               | 48.11          | 32.19    | 7.31   | 34.97  | 283    | 171     | P       | V       |
|         | *      | 2437  | 108.54           | -      | -                | 103.83         | 32.34    | 7.36   | 34.99  | 283    | 171     | P       | V       |
|         | *      | 2437  | 100.56           | -      | -                | 95.85          | 32.34    | 7.36   | 34.99  | 283    | 171     | A       | V       |
| CH 06   |        | 2485.37   | 62.39            | -11.61 | 74               | 57.54          | 32.45    | 7.4    | 35     | 283    | 171     | P       | V       |
|         |        | 2483.52   | 52.37            | -1.63  | 54               | 47.52          | 32.45    | 7.4    | 35     | 283    | 171     | A       | V       |
|         |        |   |                  |        |                  |                |          |        |        |        |         |         |         |
|         |        |   |                  |        |                  |                |          |        |        |        |         |         |         |
|         |        |   |                  |        |                  |                |          |        |        |        |         |         |         |
| 2437MHz | Remark | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                  |        |                  |                |          |        |        |        |         |         |         |



2.4GHz 2400~2483.5MHz

## WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI<br>Ant.<br>2                   | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT40<br>CH 06<br>2437MHz |   | 4874                 | 37.65                     | -36.35                  | 74                                | 51.52                           | 33.54                         | 11.53                   | 58.94                      | 100                  | 0                       | P                     | H             |
|                                     |   | 7311                 | 40.82                     | -33.18                  | 74                                | 50.25                           | 34.69                         | 13.81                   | 57.93                      | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|                                     |   | 4874                 | 38.52                     | -35.48                  | 74                                | 52.39                           | 33.54                         | 11.53                   | 58.94                      | 100                  | 0                       | P                     | V             |
|                                     |   | 7311                 | 40.38                     | -33.62                  | 74                                | 49.81                           | 34.69                         | 13.81                   | 57.93                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       |               |



2.4GHz 2400~2483.5MHz

## Emission below 1GHz

## **2.4GHz WIFI 802.11n HT40 (LF)**

**Note symbol**

|     |  |
|-----|--|
| *   | <b>Fundamental Frequency</b> which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency. |
| !   | Test result is <b>over limit</b> line.   |
| P/A | <b>Peak or Average</b>   |
| H/V | <b>Horizontal or Vertical</b>  |



A calculation example for radiated spurious emission is shown as below:

| WIFI                        | Note | Frequency | Level            | Over   | Limit            | Read           | Antenna  | Cable  | Preamp | Ant    | Table   | Peak    | Pol.    |
|-----------------------------|------|-----------|------------------|--------|------------------|----------------|----------|--------|--------|--------|---------|---------|---------|
| Ant.                        |      |           |                  | Limit  | Line             | Level          | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 2                           |      | ( MHz )   | ( dB $\mu$ V/m ) | ( dB ) | ( dB $\mu$ V/m ) | ( dB $\mu$ V ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11b<br>CH 01<br>2412MHz |      | 2390      | 55.45            | -18.55 | 74               | 54.51          | 32.22    | 4.58   | 35.86  | 103    | 308     | P       | H       |
|                             |      | 2390      | 43.54            | -10.46 | 54               | 42.6           | 32.22    | 4.58   | 35.86  | 103    | 308     | A       | H       |

1. Level(dB $\mu$ V/m) =

$$= \text{Antenna Factor(dB/m)} + \text{Cable Loss(dB)} + \text{Read Level(dB $\mu$ V)} - \text{Preamp Factor(dB)}$$

2. Over Limit(dB) = Level(dB $\mu$ V/m) – Limit Line(dB $\mu$ V/m)

#### For Peak Limit @ 2390MHz:

1. Level(dB $\mu$ V/m)

$$= \text{Antenna Factor(dB/m)} + \text{Cable Loss(dB)} + \text{Read Level(dB $\mu$ V)} - \text{Preamp Factor(dB)}$$

$$= 32.22(\text{dB/m}) + 4.58(\text{dB}) + 54.51(\text{dB $\mu$ V}) - 35.86 (\text{dB})$$

$$= 55.45 (\text{dB $\mu$ V/m})$$

2. Over Limit(dB)

$$= \text{Level(dB $\mu$ V/m)} - \text{Limit Line(dB $\mu$ V/m)}$$

$$= 55.45(\text{dB $\mu$ V/m}) - 74(\text{dB $\mu$ V/m})$$

$$= -18.55(\text{dB})$$

#### For Average Limit @ 2390MHz:

1. Level(dB $\mu$ V/m)

$$= \text{Antenna Factor(dB/m)} + \text{Cable Loss(dB)} + \text{Read Level(dB $\mu$ V)} - \text{Preamp Factor(dB)}$$

$$= 32.22(\text{dB/m}) + 4.58(\text{dB}) + 42.6(\text{dB $\mu$ V}) - 35.86 (\text{dB})$$

$$= 43.54 (\text{dB $\mu$ V/m})$$

2. Over Limit(dB)

$$= \text{Level(dB $\mu$ V/m)} - \text{Limit Line(dB $\mu$ V/m)}$$

$$= 43.54(\text{dB $\mu$ V/m}) - 54(\text{dB $\mu$ V/m})$$

$$= -10.46(\text{dB})$$

Both peak and average measured complies with the limit line, so test result is “PASS”.



2.4GHz 2400~2483.5MHz

## WIFI 802.11n HT20 (Band Edge @ 3m)

| WIFI                                | Note | Frequency | Level            | Over   | Limit            | Read           | Antenna  | Cable  | Preamp | Ant    | Table   | Peak    | Pol.    |
|-------------------------------------|------|-----------|------------------|--------|------------------|----------------|----------|--------|--------|--------|---------|---------|---------|
| Ant.                                |      |           |                  | Limit  | Line             | Level          | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1+2                                 |      | ( MHz )   | ( dB $\mu$ V/m ) | ( dB ) | ( dB $\mu$ V/m ) | ( dB $\mu$ V ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11n<br>HT20<br>CH 01<br>2412MHz |      | 2383.815  | 55.24            | -18.76 | 74               | 50.76          | 32.14    | 7.31   | 34.97  | 365    | 132     | P       | H       |
|                                     |      | 2387.49   | 48.2             | -5.8   | 54               | 43.67          | 32.19    | 7.31   | 34.97  | 365    | 132     | A       | H       |
|                                     | *    | 2412      | 108.37           | -      | -                | 103.8          | 32.24    | 7.31   | 34.98  | 365    | 132     | P       | H       |
|                                     | *    | 2412      | 98.18            | -      | -                | 93.61          | 32.24    | 7.31   | 34.98  | 365    | 132     | A       | H       |
|                                     |      |           |                  |        |                  |                |          |        |        |        |         |         | H       |
|                                     |      |           |                  |        |                  |                |          |        |        |        |         |         | H       |
|                                     |      | 2389.695  | 63.45            | -10.55 | 74               | 58.92          | 32.19    | 7.31   | 34.97  | 310    | 182     | P       | V       |
|                                     |      | 2390      | 52.53            | -1.47  | 54               | 48.01          | 32.19    | 7.31   | 34.98  | 310    | 182     | A       | V       |
|                                     | *    | 2412      | 113.29           | -      | -                | 108.72         | 32.24    | 7.31   | 34.98  | 310    | 182     | P       | V       |
|                                     | *    | 2412      | 106.1            | -      | -                | 101.54         | 32.24    | 7.31   | 34.99  | 310    | 182     | A       | V       |
|                                     |      |           |                  |        |                  |                |          |        |        |        |         |         | V       |
|                                     |      |           |                  |        |                  |                |          |        |        |        |         |         | V       |
| 802.11n<br>HT20<br>CH 06<br>2437MHz |      | 2387.14   | 54.41            | -19.59 | 74               | 49.88          | 32.19    | 7.31   | 34.97  | 317    | 130     | P       | H       |
|                                     |      | 2386.3    | 45.43            | -8.57  | 54               | 40.9           | 32.19    | 7.31   | 34.97  | 317    | 130     | A       | H       |
|                                     | *    | 2437      | 107.81           | -      | -                | 103.1          | 32.34    | 7.36   | 34.99  | 317    | 130     | P       | H       |
|                                     | *    | 2437      | 96.52            | -      | -                | 91.81          | 32.34    | 7.36   | 34.99  | 317    | 130     | A       | H       |
|                                     |      | 2499.93   | 55.39            | -18.61 | 74               | 50.5           | 32.5     | 7.4    | 35.01  | 317    | 130     | P       | H       |
|                                     |      | 2489.22   | 45.71            | -8.29  | 54               | 40.81          | 32.5     | 7.4    | 35     | 317    | 130     | A       | H       |
|                                     |      | 2386.16   | 55.67            | -18.33 | 74               | 51.14          | 32.19    | 7.31   | 34.97  | 271    | 191     | P       | V       |
|                                     |      | 2384.9    | 46.22            | -7.78  | 54               | 41.74          | 32.14    | 7.31   | 34.97  | 271    | 191     | A       | V       |
|                                     | *    | 2437      | 114.51           | -      | -                | 109.8          | 32.34    | 7.36   | 34.99  | 271    | 191     | P       | V       |
|                                     | *    | 2437      | 106.24           | -      | -                | 101.53         | 32.34    | 7.36   | 34.99  | 271    | 191     | A       | V       |
|                                     |      | 2484.6    | 56.8             | -17.2  | 74               | 51.95          | 32.45    | 7.4    | 35     | 271    | 191     | P       | V       |
|                                     |      | 2485.79   | 47.75            | -6.25  | 54               | 42.9           | 32.45    | 7.4    | 35     | 271    | 191     | A       | V       |



|                                     |  |         |        |        |    |        |       |     |       |     |     |   |   |
|-------------------------------------|--|---------|--------|--------|----|--------|-------|-----|-------|-----|-----|---|---|
| 802.11n<br>HT20<br>CH 11<br>2462MHz | *  | 2462    | 106.44 | -      | -  | 101.63 | 32.4  | 7.4 | 34.99 | 344 | 120 | P | H |
|                                     | *  | 2462    | 95.43  | -      | -  | 90.62  | 32.4  | 7.4 | 34.99 | 344 | 120 | A | H |
|                                     |  | 2485.32 | 58.42  | -15.58 | 74 | 53.57  | 32.45 | 7.4 | 35    | 344 | 120 | P | H |
|                                     |  | 2483.84 | 48.24  | -5.76  | 54 | 43.39  | 32.45 | 7.4 | 35    | 344 | 120 | A | H |
|                                     |  |         |        |        |    |        |       |     |       |     |     |   | H |
|                                     |  |         |        |        |    |        |       |     |       |     |     |   | H |
|                                     | *  | 2462    | 113.66 | -      | -  | 108.85 | 32.4  | 7.4 | 34.99 | 266 | 192 | P | V |
|                                     | *  | 2462    | 105.92 | -      | -  | 101.11 | 32.4  | 7.4 | 34.99 | 266 | 192 | A | V |
|                                     |  | 2483.8  | 65.65  | -8.35  | 74 | 60.8   | 32.45 | 7.4 | 35    | 266 | 192 | P | V |
|                                     |  | 2483.64 | 53.41  | -0.59  | 54 | 48.56  | 32.45 | 7.4 | 35    | 266 | 192 | A | V |
|                                     |  |         |        |        |    |        |       |     |       |     |     |   | V |
|                                     |  |         |        |        |    |        |       |     |       |     |     |   | V |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against limit line. |         |        |        |    |        |       |     |       |     |     |   |   |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI<br>Ant.<br>1+2                             | Note   | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|---|--|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br><br>HT20<br><br>CH 01<br><br>2412MHz |  | 4824                 | 39.05                     | -34.95                  | 74                                | 52.77                           | 33.64                         | 11.68                   | 59.04                      | 100                  | 0                       | P                     | H             |
|   |  |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|   |  |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|   |  |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|   |  | 4824                 | 39.45                     | -34.55                  | 74                                | 53.17                           | 33.64                         | 11.68                   | 59.04                      | 100                  | 0                       | P                     | V             |
|   |  |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
|   |  |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
|   |  |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
| 802.11n<br><br>HT20<br><br>CH 06<br><br>2437MHz |  | 4874                 | 38.5                      | -35.5                   | 74                                | 52.37                           | 33.54                         | 11.53                   | 58.94                      | 100                  | 0                       | P                     | H             |
|   |  | 7311                 | 41.37                     | -32.63                  | 74                                | 50.8                            | 34.69                         | 13.81                   | 57.93                      | 100                  | 0                       | P                     | H             |
|   |  |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|   |  |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|   |  | 4874                 | 39.19                     | -34.81                  | 74                                | 53.06                           | 33.54                         | 11.53                   | 58.94                      | 100                  | 0                       | P                     | V             |
|   |  | 7311                 | 42.48                     | -31.52                  | 74                                | 51.91                           | 34.69                         | 13.81                   | 57.93                      | 100                  | 0                       | P                     | V             |
|   |  |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
|   |  |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
| 802.11n<br><br>HT20<br><br>CH 11<br><br>2462MHz |  | 4924                 | 38.55                     | -35.45                  | 74                                | 52.58                           | 33.44                         | 11.37                   | 58.84                      | 100                  | 0                       | P                     | H             |
|   |  | 7386                 | 40.37                     | -33.63                  | 74                                | 50.01                           | 34.47                         | 13.95                   | 58.06                      | 100                  | 0                       | P                     | H             |
|   |  |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|   |  |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|   |  | 4924                 | 39.5                      | -34.5                   | 74                                | 53.53                           | 33.44                         | 11.37                   | 58.84                      |                      |                         | P                     | V             |
|   |  | 7386                 | 43.04                     | -30.96                  | 74                                | 52.68                           | 34.47                         | 13.95                   | 58.06                      |                      |                         | P                     | V             |
|   |  |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
|   |  |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
| Remark  | 1. No other spurious found.<br>2. All results are PASS against limit line. |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       |               |



2.4GHz 2400~2483.5MHz

## WIFI 802.11n HT20 (Band Edge @ 3m)

| WIFI                                | Note   | Frequency | Level            | Over   | Limit            | Read           | Antenna  | Cable  | Preamp | Ant    | Table   | Peak    | Pol.    |
|-------------------------------------|--|-----------|------------------|--------|------------------|----------------|----------|--------|--------|--------|---------|---------|---------|
| Ant.                                |  |           |                  | Limit  | Line             | Level          | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1+2                                 |  | ( MHz )   | ( dB $\mu$ V/m ) | ( dB ) | ( dB $\mu$ V/m ) | ( dB $\mu$ V ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11n<br>HT20<br>CH 12<br>2467MHz | *  | 2467      | 98.95            | -      | -                | 94.15          | 32.4     | 7.4    | 35     | 346    | 120     | P       | H       |
|                                     | *  | 2467      | 89.69            | -      | -                | 84.89          | 32.4     | 7.4    | 35     | 346    | 120     | A       | H       |
|                                     |  | 2483.56   | 56.89            | -17.11 | 74               | 52.04          | 32.45    | 7.4    | 35     | 346    | 120     | P       | H       |
|                                     |  | 2483.6    | 46.94            | -7.06  | 54               | 42.09          | 32.45    | 7.4    | 35     | 346    | 120     | A       | H       |
|                                     |  |           |                  |        |                  |                |          |        |        |        |         |         | H       |
|                                     |  |           |                  |        |                  |                |          |        |        |        |         |         | H       |
|                                     | *  | 2467      | 106.04           | -      | -                | 101.24         | 32.4     | 7.4    | 35     | 269    | 191     | P       | V       |
|                                     | *  | 2467      | 98.35            | -      | -                | 93.55          | 32.4     | 7.4    | 35     | 269    | 191     | A       | V       |
|                                     |  | 2483.56   | 66.29            | -7.71  | 74               | 61.44          | 32.45    | 7.4    | 35     | 269    | 191     | P       | V       |
|                                     |  | 2483.72   | 52.98            | -1.02  | 54               | 48.13          | 32.45    | 7.4    | 35     | 269    | 191     | A       | V       |
|                                     |  |           |                  |        |                  |                |          |        |        |        |         |         | V       |
|                                     |  |           |                  |        |                  |                |          |        |        |        |         |         | V       |
| 802.11n<br>HT20<br>CH 13<br>2472MHz | *  | 2472      | 85.12            | -      | -                | 80.27          | 32.45    | 7.4    | 35     | 346    | 120     | P       | H       |
|                                     | *  | 2472      | 74.9             | -      | -                | 70.05          | 32.45    | 7.4    | 35     | 346    | 120     | A       | H       |
|                                     |  | 2484.04   | 59.25            | -14.75 | 74               | 54.4           | 32.45    | 7.4    | 35     | 346    | 120     | P       | H       |
|                                     |  | 2483.56   | 47.52            | -6.48  | 54               | 42.67          | 32.45    | 7.4    | 35     | 346    | 120     | A       | H       |
|                                     |  |           |                  |        |                  |                |          |        |        |        |         |         | H       |
|                                     |  |           |                  |        |                  |                |          |        |        |        |         |         | H       |
|                                     | *  | 2472      | 90.86            | -      | -                | 86.01          | 32.45    | 7.4    | 35     | 268    | 192     | P       | V       |
|                                     | *  | 2472      | 83.42            | -      | -                | 78.57          | 32.45    | 7.4    | 35     | 268    | 192     | A       | V       |
|                                     |  | 2483.52   | 65.62            | -8.38  | 74               | 60.77          | 32.45    | 7.4    | 35     | 268    | 192     | P       | V       |
|                                     |  | 2483.6    | 53.86            | -0.14  | 54               | 49.01          | 32.45    | 7.4    | 35     | 268    | 192     | A       | V       |
|                                     |  |           |                  |        |                  |                |          |        |        |        |         |         | V       |
|                                     |  |           |                  |        |                  |                |          |        |        |        |         |         | V       |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against limit line. |           |                  |        |                  |                |          |        |        |        |         |         |         |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI<br>Ant.<br>1+2                 | Note   | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|--|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT20<br>CH 12<br>2467MHz |  | 4934                 | 38.56                     | -35.44                  | 74                                | 52.59                           | 33.44                         | 11.37                   | 58.84                      | 100                  | 0                       | P                     | H             |
|                                     |  | 7401                 | 39.65                     | -34.35                  | 74                                | 49.36                           | 34.42                         | 13.95                   | 58.08                      | 100                  | 0                       | P                     | H             |
|                                     |  |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|                                     |  |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|                                     |  |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
|                                     |  | 4934                 | 38.84                     | -35.16                  | 74                                | 52.87                           | 33.44                         | 11.37                   | 58.84                      | 100                  | 0                       | P                     | V             |
|                                     |  | 7401                 | 38.66                     | -35.34                  | 74                                | 48.37                           | 34.42                         | 13.95                   | 58.08                      | 100                  | 0                       | P                     | V             |
|                                     |  |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 13<br>2472MHz |  | 4944                 | 38.68                     | -35.32                  | 74                                | 52.86                           | 33.4                          | 11.22                   | 58.8                       | 100                  | 0                       | P                     | H             |
|                                     |  | 7416                 | 39.03                     | -34.97                  | 74                                | 48.74                           | 34.42                         | 13.95                   | 58.08                      | 100                  | 0                       | P                     | H             |
|                                     |  |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|                                     |  |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|                                     |  | 4944                 | 39.33                     | -34.67                  | 74                                | 53.51                           | 33.4                          | 11.22                   | 58.8                       | 100                  | 0                       | P                     | V             |
|                                     |  | 7416                 | 39.45                     | -34.55                  | 74                                | 49.16                           | 34.42                         | 13.95                   | 58.08                      | 100                  | 0                       | P                     | V             |
|                                     |  |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
|                                     |  |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against limit line. |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       |               |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI<br>Ant.<br>1+2                             | Note | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|---|------|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br><br>HT40<br><br>CH 03<br><br>2422MHz |      | 2386.16              | 56.97                     | -17.03                  | 74                                | 52.44                           | 32.19                         | 7.31                    | 34.97                      | 361                  | 132                     | P                     | H             |
|   |      | 2387                 | 48.47                     | -5.53                   | 54                                | 43.94                           | 32.19                         | 7.31                    | 34.97                      | 361                  | 132                     | A                     | H             |
|   | *    | 2422                 | 103.08                    | -                       | -                                 | 98.42                           | 32.29                         | 7.36                    | 34.99                      | 361                  | 132                     | P                     | H             |
|   | *    | 2422                 | 92.55                     | -                       | -                                 | 87.89                           | 32.29                         | 7.36                    | 34.99                      | 361                  | 132                     | A                     | H             |
|   |      | 2487.54              | 55.79                     | -18.21                  | 74                                | 50.89                           | 32.5                          | 7.4                     | 35                         | 361                  | 132                     | P                     | H             |
|   |      | 2491.81              | 46.01                     | -7.99                   | 54                                | 41.12                           | 32.5                          | 7.4                     | 35.01                      | 361                  | 132                     | A                     | H             |
|   |      | 2383.22              | 63.24                     | -10.76                  | 74                                | 58.76                           | 32.14                         | 7.31                    | 34.97                      | 276                  | 182                     | P                     | V             |
|   |      | 2389.52              | 53.35                     | -0.65                   | 54                                | 48.82                           | 32.19                         | 7.31                    | 34.97                      | 276                  | 182                     | A                     | V             |
|   | *    | 2422                 | 108.1                     | -                       | -                                 | 103.44                          | 32.29                         | 7.36                    | 34.99                      | 276                  | 182                     | P                     | V             |
|   | *    | 2422                 | 99.96                     | -                       | -                                 | 95.3                            | 32.29                         | 7.36                    | 34.99                      | 276                  | 182                     | A                     | V             |
| 802.11n<br><br>HT40<br><br>CH 06<br><br>2437MHz |      | 2492.02              | 56.77                     | -17.23                  | 74                                | 51.88                           | 32.5                          | 7.4                     | 35.01                      | 276                  | 182                     | P                     | V             |
|   |      | 2491.04              | 47.29                     | -6.71                   | 54                                | 42.39                           | 32.5                          | 7.4                     | 35                         | 276                  | 182                     | A                     | V             |
|   |      | 2388.68              | 55.19                     | -18.81                  | 74                                | 50.66                           | 32.19                         | 7.31                    | 34.97                      | 352                  | 134                     | P                     | H             |
|   |      | 2389.94              | 45.79                     | -8.21                   | 54                                | 41.27                           | 32.19                         | 7.31                    | 34.98                      | 352                  | 134                     | A                     | H             |
|   | *    | 2437                 | 104.62                    | -                       | -                                 | 99.91                           | 32.34                         | 7.36                    | 34.99                      | 352                  | 134                     | P                     | H             |
|   | *    | 2437                 | 94.57                     | -                       | -                                 | 89.86                           | 32.34                         | 7.36                    | 34.99                      | 352                  | 134                     | A                     | H             |
|   |      | 2488.38              | 55.44                     | -18.56                  | 74                                | 50.54                           | 32.5                          | 7.4                     | 35                         | 352                  | 134                     | P                     | H             |
|   |      | 2483.76              | 46.73                     | -7.27                   | 54                                | 41.88                           | 32.45                         | 7.4                     | 35                         | 352                  | 134                     | A                     | H             |
|   |      | 2389.1               | 59.47                     | -14.53                  | 74                                | 54.94                           | 32.19                         | 7.31                    | 34.97                      | 273                  | 193                     | P                     | V             |
|   |      | 2389.94              | 50.11                     | -3.89                   | 54                                | 45.59                           | 32.19                         | 7.31                    | 34.98                      | 273                  | 193                     | A                     | V             |
|   | *    | 2437                 | 111.27                    | -                       | -                                 | 106.56                          | 32.34                         | 7.36                    | 34.99                      | 273                  | 193                     | P                     | V             |
|   | *    | 2437                 | 103.17                    | -                       | -                                 | 98.46                           | 32.34                         | 7.36                    | 34.99                      | 273                  | 193                     | A                     | V             |
|   |      | 2485.16              | 64.46                     | -9.54                   | 74                                | 59.61                           | 32.45                         | 7.4                     | 35                         | 273                  | 193                     | P                     | V             |
|   |      | 2483.97              | 53.3                      | -0.7                    | 54                                | 48.45                           | 32.45                         | 7.4                     | 35                         | 273                  | 193                     | A                     | V             |



|         |  |         |        |        |    |        |       |      |       |     |     |   |   |
|---------|--|---------|--------|--------|----|--------|-------|------|-------|-----|-----|---|---|
|         |  | 2327.64 | 54.61  | -19.39 | 74 | 50.41  | 31.98 | 7.18 | 34.96 | 344 | 119 | P | H |
|         |  | 2388.12 | 45.63  | -8.37  | 54 | 41.1   | 32.19 | 7.31 | 34.97 | 344 | 119 | A | H |
|         | *  | 2452    | 104.05 | -      | -  | 99.34  | 32.34 | 7.36 | 34.99 | 344 | 119 | P | H |
|         | *  | 2452    | 96.17  | -      | -  | 91.46  | 32.34 | 7.36 | 34.99 | 344 | 119 | A | H |
| 802.11n |  | 2484.46 | 58.56  | -15.44 | 74 | 53.71  | 32.45 | 7.4  | 35    | 344 | 119 | P | H |
| HT40    |  | 2484.53 | 49.78  | -4.22  | 54 | 44.93  | 32.45 | 7.4  | 35    | 344 | 119 | A | H |
| CH 09   |  | 2338.84 | 54.68  | -19.32 | 74 | 50.44  | 32.03 | 7.18 | 34.97 | 312 | 165 | P | V |
| 2452MHz |  | 2388.12 | 46.73  | -7.27  | 54 | 42.2   | 32.19 | 7.31 | 34.97 | 312 | 165 | A | V |
|         | *  | 2452    | 107.23 | -      | -  | 102.52 | 32.34 | 7.36 | 34.99 | 312 | 165 | P | V |
|         | *  | 2452    | 98.88  | -      | -  | 94.17  | 32.34 | 7.36 | 34.99 | 312 | 165 | A | V |
|         |  | 2484.11 | 60.7   | -13.3  | 74 | 55.85  | 32.45 | 7.4  | 35    | 312 | 165 | P | V |
|         |  | 2483.52 | 52.91  | -1.09  | 54 | 48.06  | 32.45 | 7.4  | 35    | 312 | 165 | A | V |
| Remark  | 1. No other spurious found.<br>2. All results are PASS against limit line. |         |        |        |    |        |       |      |       |     |     |   |   |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI<br>Ant.<br>1+2                 | Note   | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|--|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT40<br>CH 03<br>2422MHz |  | 4844                 | 40.27                     | -33.73                  | 74                                | 53.99                           | 33.61                         | 11.68                   | 59.01                      | 100                  | 0                       | P                     | H             |
|                                     |  | 7266                 | 39.78                     | -34.22                  | 74                                | 49.14                           | 34.78                         | 13.75                   | 57.89                      | 100                  | 0                       | P                     | H             |
|                                     |  |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|                                     |  |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|                                     |  | 4844                 | 39.09                     | -34.91                  | 74                                | 52.81                           | 33.61                         | 11.68                   | 59.01                      | 100                  | 0                       | P                     | V             |
|                                     |  | 7266                 | 40.03                     | -33.97                  | 74                                | 49.39                           | 34.78                         | 13.75                   | 57.89                      | 100                  | 0                       | P                     | V             |
|                                     |  |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
|                                     |  |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
| 802.11n<br>HT40<br>CH 06<br>2437MHz |  | 4874                 | 37.84                     | -36.16                  | 74                                | 51.71                           | 33.54                         | 11.53                   | 58.94                      | 100                  | 0                       | P                     | H             |
|                                     |  | 7311                 | 39.63                     | -34.37                  | 74                                | 49.06                           | 34.69                         | 13.81                   | 57.93                      | 100                  | 0                       | P                     | H             |
|                                     |  |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|                                     |  |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|                                     |  | 4874                 | 38.97                     | -35.03                  | 74                                | 52.84                           | 33.54                         | 11.53                   | 58.94                      | 100                  | 0                       | P                     | V             |
|                                     |  | 7311                 | 40.07                     | -33.93                  | 74                                | 49.5                            | 34.69                         | 13.81                   | 57.93                      | 100                  | 0                       | P                     | V             |
|                                     |  |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
|                                     |  |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
| 802.11n<br>HT40<br>CH 09<br>2452MHz |  | 4904                 | 38.37                     | -35.63                  | 74                                | 52.4                            | 33.47                         | 11.37                   | 58.87                      | 100                  | 0                       | P                     | H             |
|                                     |  | 7356                 | 38.54                     | -35.46                  | 74                                | 48.11                           | 34.56                         | 13.88                   | 58.01                      | 100                  | 0                       | P                     | H             |
|                                     |  |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|                                     |  |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|                                     |  | 4904                 | 38.46                     | -35.54                  | 74                                | 52.49                           | 33.47                         | 11.37                   | 58.87                      | 100                  | 0                       | P                     | V             |
|                                     |  | 7356                 | 39.1                      | -34.9                   | 74                                | 48.67                           | 34.56                         | 13.88                   | 58.01                      | 100                  | 0                       | P                     | V             |
|                                     |  |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
|                                     |  |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against limit line. |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       |               |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI<br>Ant.<br>1+2                 | Note | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m )                | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|------|----------------------|--|-------------------------|-----------------------------------|---------------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT40<br>CH 10<br>2457MHz |      | 2331.84              | 54.76                                    | -19.24                  | 74                                | 50.56                           | 31.98                         | 7.18                    | 34.96                      | 380                  | 110                     | P                     | H             |
|                                     |      | 2385.88              | 45.57                                    | -8.43                   | 54                                | 41.04                           | 32.19                         | 7.31                    | 34.97                      | 380                  | 110                     | A                     | H             |
|                                     | *    | 2457                 | 97.34                                    | -                       | -                                 | 92.57                           | 32.4                          | 7.36                    | 34.99                      | 380                  | 110                     | P                     | H             |
|                                     | *    | 2457                 | 88.07                                    | -                       | -                                 | 83.3                            | 32.4                          | 7.36                    | 34.99                      | 380                  | 110                     | A                     | H             |
|                                     |      | 2483.52              | 58.15                                    | -15.85                  | 74                                | 53.3                            | 32.45                         | 7.4                     | 35                         | 380                  | 110                     | P                     | H             |
|                                     |      | 2483.55              | 48.36                                    | -5.64                   | 54                                | 43.51                           | 32.45                         | 7.4                     | 35                         | 380                  | 110                     | A                     | H             |
|                                     |      | 2324.42              | 54.85                                    | -19.15                  | 74                                | 50.65                           | 31.98                         | 7.18                    | 34.96                      | 266                  | 192                     | P                     | V             |
|                                     |      | 2377.9               | 45.95                                    | -8.05                   | 54                                | 41.54                           | 32.14                         | 7.24                    | 34.97                      | 266                  | 192                     | A                     | V             |
|                                     | *    | 2457                 | 104.81                                   | -                       | -                                 | 100.04                          | 32.4                          | 7.36                    | 34.99                      | 266                  | 192                     | P                     | V             |
|                                     | *    | 2457                 | 96.67                                    | -                       | -                                 | 91.9                            | 32.4                          | 7.36                    | 34.99                      | 266                  | 192                     | A                     | V             |
| 802.11n<br>HT40<br>CH 11<br>2462MHz |      | 2483.55              | 61.52                                    | -12.48                  | 74                                | 56.67                           | 32.45                         | 7.4                     | 35                         | 266                  | 192                     | P                     | V             |
|                                     |      | 2483.52              | 52.67                                    | -1.33                   | 54                                | 47.82                           | 32.45                         | 7.4                     | 35                         | 266                  | 192                     | A                     | V             |
|                                     |      | 2375.38              | 54.54                                    | -19.46                  | 74                                | 50.13                           | 32.14                         | 7.24                    | 34.97                      | 380                  | 123                     | P                     | H             |
|                                     |      | 2386.86              | 45.41                                    | -8.59                   | 54                                | 40.88                           | 32.19                         | 7.31                    | 34.97                      | 380                  | 123                     | A                     | H             |
|                                     | *    | 2462                 | 81.42                                    | -                       | -                                 | 76.61                           | 32.4                          | 7.4                     | 34.99                      | 380                  | 123                     | P                     | H             |
|                                     | *    | 2462                 | 71.63                                    | -                       | -                                 | 66.82                           | 32.4                          | 7.4                     | 34.99                      | 380                  | 123                     | A                     | H             |
|                                     |      | 2484.32              | 55.77                                    | -18.23                  | 74                                | 50.92                           | 32.45                         | 7.4                     | 35                         | 380                  | 123                     | P                     | H             |
|                                     |      | 2483.52              | 46.31                                    | -7.69                   | 54                                | 41.46                           | 32.45                         | 7.4                     | 35                         | 380                  | 123                     | A                     | H             |
|                                     |      | 2341.22              | 54.22                                    | -19.78                  | 74                                | 49.92                           | 32.03                         | 7.24                    | 34.97                      | 266                  | 191                     | P                     | V             |
|                                     |      | 2364.46              | 45.15                                    | -8.85                   | 54                                | 40.79                           | 32.09                         | 7.24                    | 34.97                      | 266                  | 191                     | A                     | V             |
| Remark                              | *    | 2462                 | 88.29                                    | -                       | -                                 | 83.48                           | 32.4                          | 7.4                     | 34.99                      | 266                  | 191                     | P                     | V             |
|                                     | *    | 2462                 | 80.2                                     | -                       | -                                 | 75.39                           | 32.4                          | 7.4                     | 34.99                      | 266                  | 191                     | A                     | V             |
|                                     |      | 2483.52              | 62.81                                    | -11.19                  | 74                                | 57.96                           | 32.45                         | 7.4                     | 35                         | 266                  | 191                     | P                     | V             |
|                                     |      | 2483.55              | 53.56                                    | -0.44                   | 54                                | 48.71                           | 32.45                         | 7.4                     | 35                         | 266                  | 191                     | A                     | V             |
|                                     |      | 1.                   | No other spurious found.                 |                         |                                   |                                 |                               |                         |                            |                      |                         |                       |               |
|                                     |      | 2.                   | All results are PASS against limit line. |                         |                                   |                                 |                               |                         |                            |                      |                         |                       |               |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI<br>Ant.<br>1+2                 | Note   | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|--|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT40<br>CH 10<br>2457MHz |  | 4914                 | 38.91                     | -35.09                  | 74                                | 52.94                           | 33.47                         | 11.37                   | 58.87                      | 100                  | 0                       | P                     | H             |
|                                     |  | 7371                 | 38.41                     | -35.59                  | 74                                | 48.05                           | 34.51                         | 13.88                   | 58.03                      | 100                  | 0                       | P                     | H             |
|                                     |  |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|                                     |  |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|                                     |  | 4914                 | 38.11                     | -35.89                  | 74                                | 52.14                           | 33.47                         | 11.37                   | 58.87                      | 100                  | 0                       | P                     | V             |
|                                     |  | 7371                 | 39.66                     | -34.34                  | 74                                | 49.3                            | 34.51                         | 13.88                   | 58.03                      | 100                  | 0                       | P                     | V             |
|                                     |  |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
|                                     |  |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
| 802.11n<br>HT40<br>CH 11<br>2462MHz |  | 4926                 | 37.57                     | -36.43                  | 74                                | 51.6                            | 33.44                         | 11.37                   | 58.84                      | 100                  | 0                       | P                     | H             |
|                                     |  | 7386                 | 38.19                     | -35.81                  | 74                                | 47.83                           | 34.47                         | 13.95                   | 58.06                      | 100                  | 0                       | P                     | H             |
|                                     |  |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|                                     |  |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | H             |
|                                     |  | 4926                 | 38.76                     | -35.24                  | 74                                | 52.79                           | 33.44                         | 11.37                   | 58.84                      | 100                  | 0                       | P                     | V             |
|                                     |  | 7386                 | 39.24                     | -34.76                  | 74                                | 48.88                           | 34.47                         | 13.95                   | 58.06                      | 100                  | 0                       | P                     | V             |
|                                     |  |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
|                                     |  |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against limit line. |                      |                           |                         |                                   |                                 |                               |                         |                            |                      |                         |                       |               |



## Emission below 1GHz

## 2.4GHz WIFI 802.11n HT20 (LF)

| WIFI                            | Note   | Frequency | Level            | Over   | Limit            | Read         | Antenna  | Cable  | Preamp | Ant    | Table   | Peak  | Pol.  |
|---------------------------------|--|-----------|------------------|--------|------------------|--------------|----------|--------|--------|--------|---------|-------|-------|
| Ant.                            |  |           |                  | Limit  | Line             | Level        | Factor   | Loss   | Factor | Pos    | Pos     | Avg.  |       |
| 1+2                             |  | ( MHz )   | ( dB $\mu$ V/m ) | ( dB ) | ( dB $\mu$ V/m ) | (dB $\mu$ V) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 2.4GHz<br>802.11n<br>HT20<br>LF |  | 61.32     | 30.71            | -9.29  | 40               | 48.94        | 12.07    | 1.28   | 31.58  | 100    | 0       | P     | H     |
|                                 |  | 211.98    | 26.73            | -16.77 | 43.5             | 40           | 16.32    | 1.87   | 31.46  | -      | -       | P     | H     |
|                                 |  | 263.01    | 27.4             | -18.6  | 46               | 36.61        | 19.82    | 2.32   | 31.35  | -      | -       | P     | H     |
|                                 |  | 331.5     | 32.1             | -13.9  | 46               | 40.24        | 20.69    | 2.41   | 31.24  | -      | -       | P     | H     |
|                                 |  | 825       | 31.81            | -14.19 | 46               | 30.08        | 28.21    | 4.1    | 30.58  | -      | -       | P     | H     |
|                                 |  | 953.8     | 34.05            | -11.95 | 46               | 30.3         | 30.21    | 4.07   | 30.53  | -      | -       | P     | H     |
|                                 |  |           |                  |        |                  |              |          |        |        |        |         |       | H     |
|                                 |  |           |                  |        |                  |              |          |        |        |        |         |       | H     |
|                                 |  |           |                  |        |                  |              |          |        |        |        |         |       | H     |
|                                 |  |           |                  |        |                  |              |          |        |        |        |         |       | H     |
|                                 |  |           |                  |        |                  |              |          |        |        |        |         |       | H     |
|                                 |  |           |                  |        |                  |              |          |        |        |        |         |       | H     |
|                                 |  |           |                  |        |                  |              |          |        |        |        |         |       | H     |
|                                 |  |           |                  |        |                  |              |          |        |        |        |         |       | H     |
| Remark                          | 1. No other spurious found.<br>2. All results are PASS against limit line. |           |                  |        |                  |              |          |        |        |        |         |       |       |

**Note symbol**

|     |  |
|-----|--|
| *   | <b>Fundamental Frequency</b> which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency. |
| !   | Test result is <b>over limit</b> line.   |
| P/A | <b>Peak or Average</b>   |
| H/V | <b>Horizontal or Vertical</b>  |



A calculation example for radiated spurious emission is shown as below:

| WIFI                        | Note | Frequency | Level            | Over   | Limit            | Read           | Antenna  | Cable  | Preamp | Ant    | Table   | Peak    | Pol.    |
|-----------------------------|------|-----------|------------------|--------|------------------|----------------|----------|--------|--------|--------|---------|---------|---------|
| Ant.                        |      |           |                  | Limit  | Line             | Level          | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1+2                         |      | ( MHz )   | ( dB $\mu$ V/m ) | ( dB ) | ( dB $\mu$ V/m ) | ( dB $\mu$ V ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11b<br>CH 01<br>2412MHz |      | 2390      | 55.45            | -18.55 | 74               | 54.51          | 32.22    | 4.58   | 35.86  | 103    | 308     | P       | H       |
|                             |      | 2390      | 43.54            | -10.46 | 54               | 42.6           | 32.22    | 4.58   | 35.86  | 103    | 308     | A       | H       |

1. Level(dB $\mu$ V/m) =

$$= \text{Antenna Factor(dB/m)} + \text{Cable Loss(dB)} + \text{Read Level(dB $\mu$ V)} - \text{Preamp Factor(dB)}$$

2. Over Limit(dB) = Level(dB $\mu$ V/m) – Limit Line(dB $\mu$ V/m)

#### For Peak Limit @ 2390MHz:

1. Level(dB $\mu$ V/m)

$$= \text{Antenna Factor(dB/m)} + \text{Cable Loss(dB)} + \text{Read Level(dB $\mu$ V)} - \text{Preamp Factor(dB)}$$

$$= 32.22(\text{dB/m}) + 4.58(\text{dB}) + 54.51(\text{dB $\mu$ V}) - 35.86 (\text{dB})$$

$$= 55.45 (\text{dB $\mu$ V/m})$$

2. Over Limit(dB)

$$= \text{Level(dB $\mu$ V/m)} - \text{Limit Line(dB $\mu$ V/m)}$$

$$= 55.45(\text{dB $\mu$ V/m}) - 74(\text{dB $\mu$ V/m})$$

$$= -18.55(\text{dB})$$

#### For Average Limit @ 2390MHz:

1. Level(dB $\mu$ V/m)

$$= \text{Antenna Factor(dB/m)} + \text{Cable Loss(dB)} + \text{Read Level(dB $\mu$ V)} - \text{Preamp Factor(dB)}$$

$$= 32.22(\text{dB/m}) + 4.58(\text{dB}) + 42.6(\text{dB $\mu$ V}) - 35.86 (\text{dB})$$

$$= 43.54 (\text{dB $\mu$ V/m})$$

2. Over Limit(dB)

$$= \text{Level(dB $\mu$ V/m)} - \text{Limit Line(dB $\mu$ V/m)}$$

$$= 43.54(\text{dB $\mu$ V/m}) - 54(\text{dB $\mu$ V/m})$$

$$= -10.46(\text{dB})$$

Both peak and average measured complies with the limit line, so test result is “PASS”.



## Appendix B. Radiated Spurious Emission Plots

|                 |                                       |                     |         |
|-----------------|---------------------------------------|---------------------|---------|
| Test Engineer : | Jesse Wang, James Chiu and Daniel Lee | Temperature :       | 21~23°C |
|                 |                                       | Relative Humidity : | 47~51%  |

### Note symbol

|    |                       |
|----|-----------------------|
| -L | Low channel location  |
| -R | High channel location |

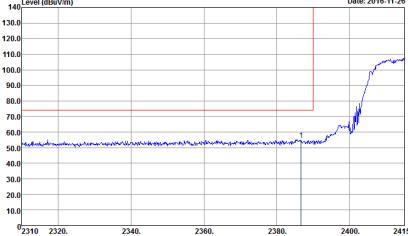
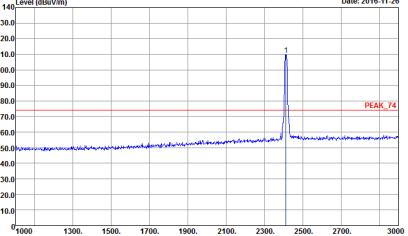
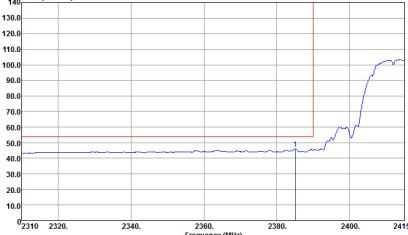
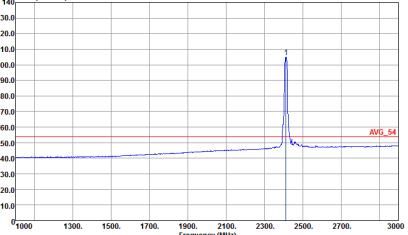


## 2.4GHz 2400~2483.5MHz

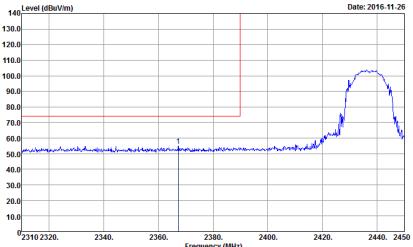
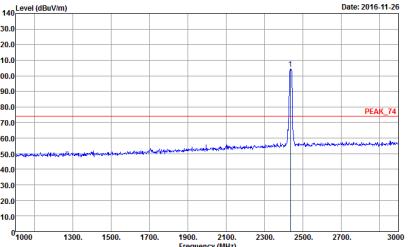
## WIFI 802.11b (Band Edge @ 3m)

| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |   |
|------|--|---|
| ANT  | 802.11b CH01 2412MHz   |   |
| 1    | Horizontal   | Fundamental   |
| Peak | <br>Site: 03CH07-HY<br>Condition: PEAK BE_74 3m HF-ANT_130829 HORIZONTAL<br>Detector: RBW-1000.000KHz VBW-3000.000KHz SWT-Auto<br>Project: 6N0822<br>Mode: 7 | <br>Site: 03CH07-HY<br>Condition: PEAK_74 3m HF-ANT_130829 HORIZONTAL<br>Detector: Peak<br>Project: 6N0822<br>Mode: 7 |
| Avg. | <br>Site: 03CH07-HY<br>Condition: AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br>Detector: RBW-1000.000KHz VBW-0.010KHz SWT-Auto<br>Project: 6N0822<br>Mode: 7     | <br>Site: 03CH07-HY<br>Condition: AVG_54 3m HF-ANT_130829 HORIZONTAL<br>Detector: Peak<br>Project: 6N0822<br>Mode: 7  |

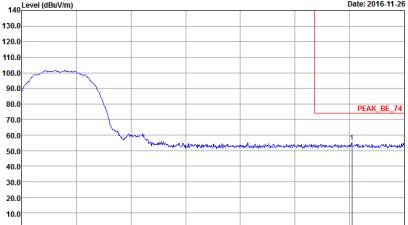
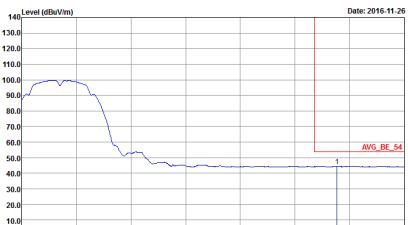


|      |  |  |
|------|--|--|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |  |
| ANT  | 802.11b CH01 2412MHz   |  |
| 1    | Vertical   | Fundamental  |
| Peak | <br>Site Condition : 03CH07-HY<br>Site Condition : PEAK_BE_74_3m_HF-ANT_130829 VERTICAL<br>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 6N0822<br>Mode : 7 | <br>Site Condition : PEAK_74_3m_HF-ANT_130829 VERTICAL<br>Site Condition : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 6N0822<br>Mode : 7 |
| Avg. | <br>Site Condition : 03CH07-HY<br>Site Condition : AVG_BE_54_3m_HF-ANT_130829 VERTICAL<br>Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br>Detector : Peak<br>Project : 6N0822<br>Mode : 7   | <br>Site Condition : AVG_54_3m_HF-ANT_130829 VERTICAL<br>Site Condition : RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br>Detector : Peak<br>Project : 6N0822<br>Mode : 7   |

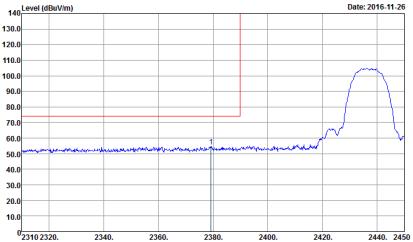
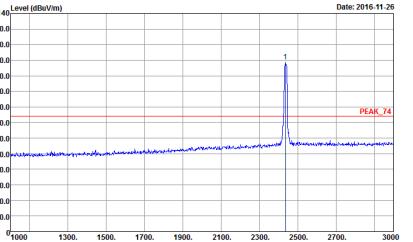
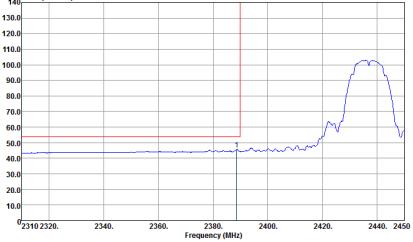
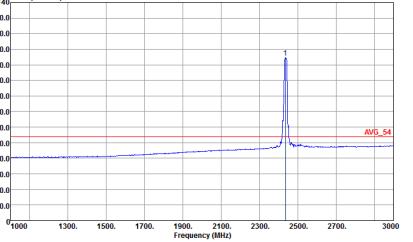


|      |  |  |
|------|--|--|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |  |
| ANT  | 802.11b CH06 2437MHz - L   |  |
| 1    | Horizontal   | Fundamental  |
| Peak |  <p>Site: 03CH07-HY<br/>Condition: PEAK_BE_74.3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 8</p> |  <p>Site: 03CH07-HY<br/>Condition: PEAK_74.3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 8</p> |
| Avg. |  <p>Site: 03CH07-HY<br/>Condition: AVG_BE_54.3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 8</p>   |  <p>Site: 03CH07-HY<br/>Condition: AVG_54.3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 8</p>   |

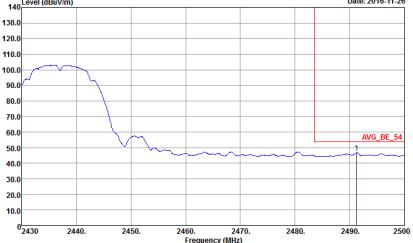


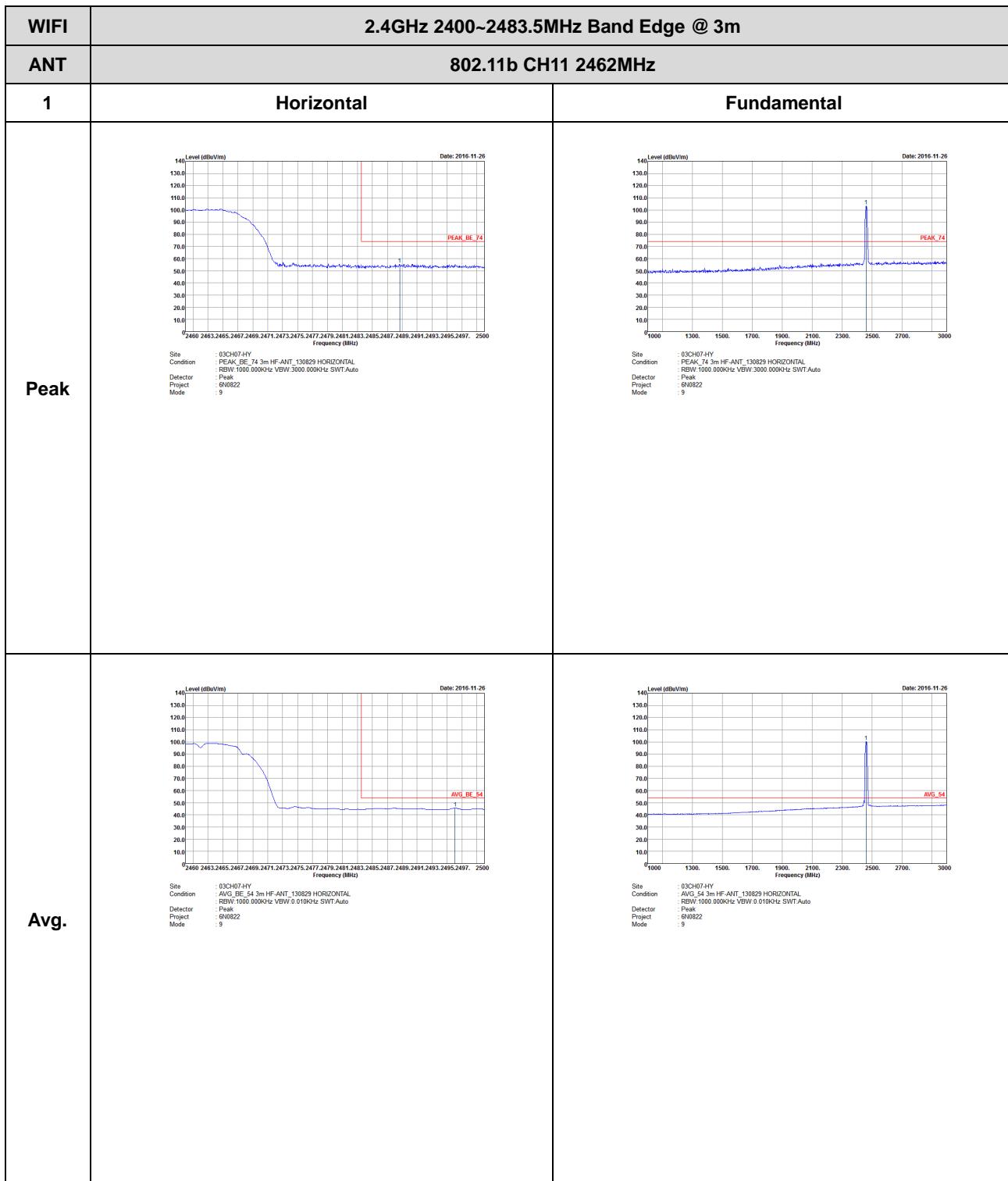
|      |   |             |
|------|---|-------------|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m  |             |
| ANT  | 802.11b CH06 2437MHz - R  |             |
| 1    | Horizontal  | Fundamental |
| Peak |  <p>Level (dBuV/m)</p> <p>Date: 2016-11-26</p> <p>PEAK_BE_74</p> <p>Site: 03CH07-HY<br/>Condition: PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW: 3000.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 8</p> | Left blank  |
| Avg. |  <p>Level (dBuV/m)</p> <p>Date: 2016-11-26</p> <p>AVG_BE_54</p> <p>Site: 03CH07-HY<br/>Condition: AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW: 0.010KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 8</p>    | Left blank  |



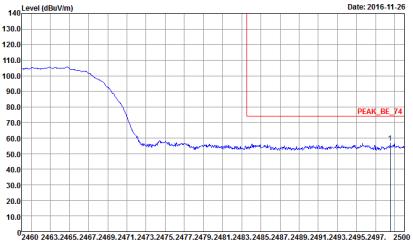
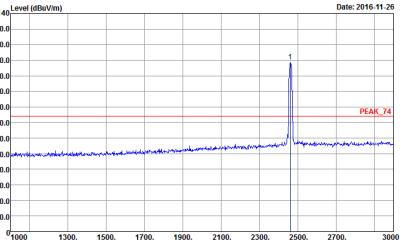
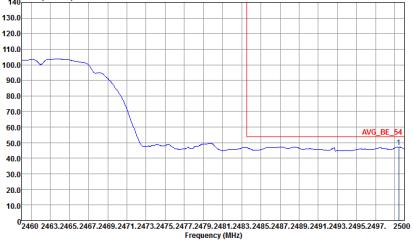
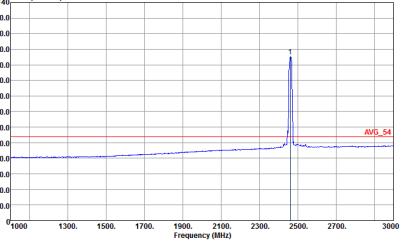
|      |   |  |
|------|---|--|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m  |  |
| ANT  | 802.11b CH06 2437MHz - L  |  |
| 1    | Vertical  | Fundamental  |
| Peak |  <p>Site Condition : 03CH07-HY<br/>Site Condition : PEAK_BE_74_3m_HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 8</p> |  <p>Site Condition : PEAK_74_3m_HF-ANT_130829 VERTICAL<br/>Site Condition : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 8</p> |
| Avg. |  <p>Site Condition : 03CH07-HY<br/>Site Condition : AVG_BE_54_3m_HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 8</p>   |  <p>Site Condition : AVG_54_3m_HF-ANT_130829 VERTICAL<br/>Site Condition : RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 8</p>   |

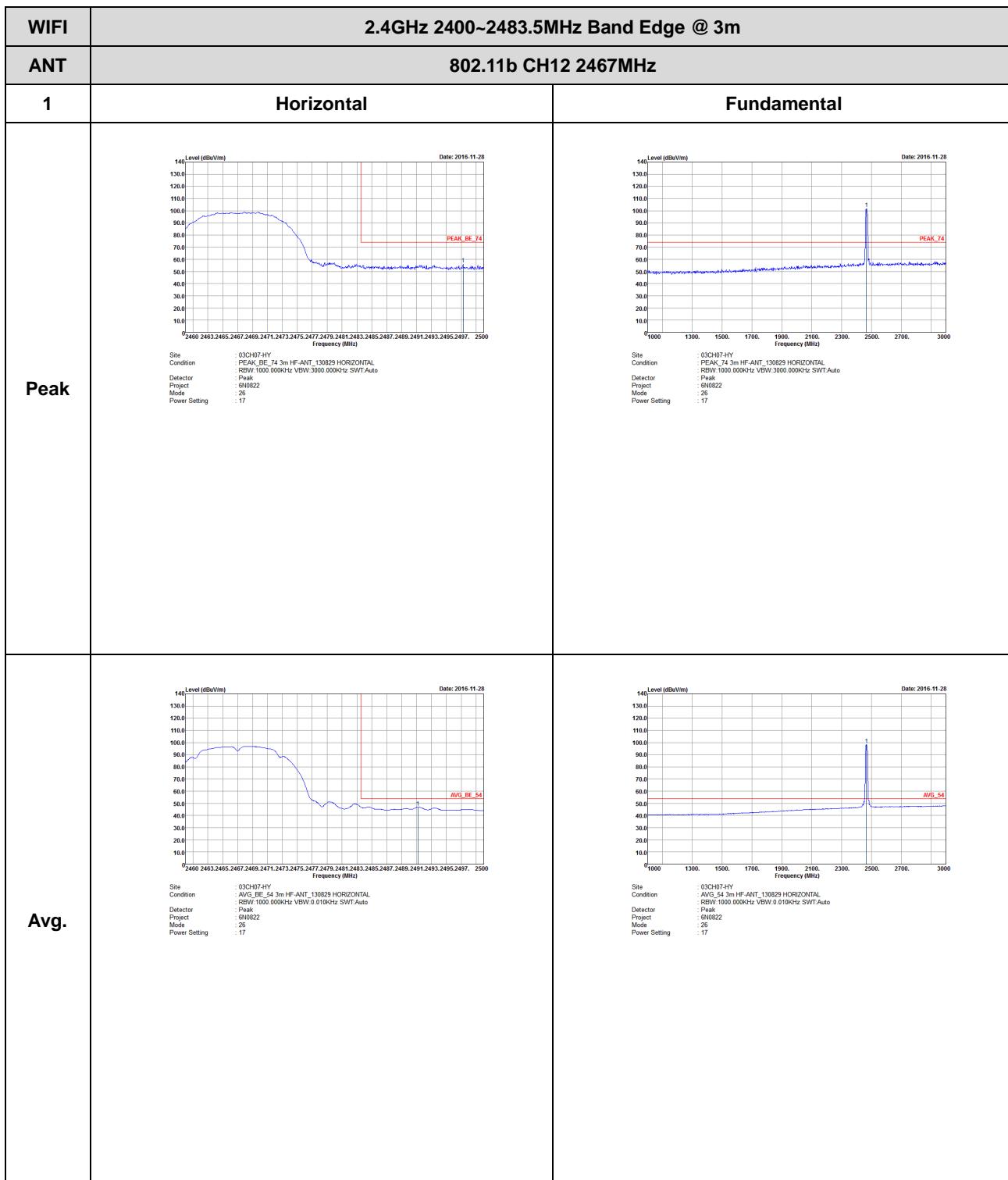


|      |   |             |
|------|---|-------------|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m  |             |
| ANT  | 802.11b CH06 2437MHz - R  |             |
| 1    | Vertical  | Fundamental |
| Peak |  <p>Site Condition: 03CH07-HY PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 8</p>  | Left blank  |
| Avg. |  <p>Site Condition: 03CH07-HY AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 8</p> | Left blank  |

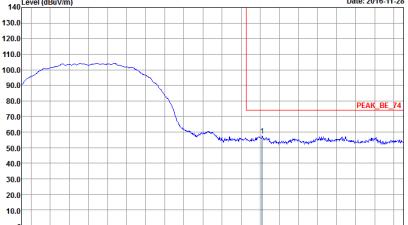
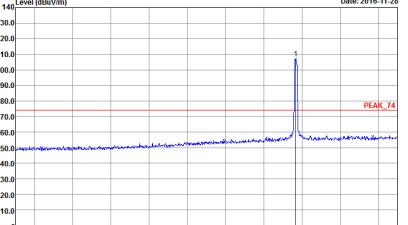
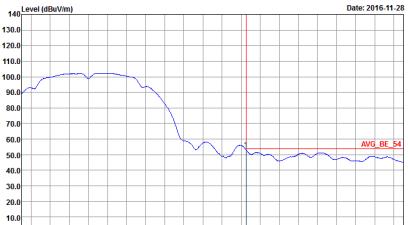
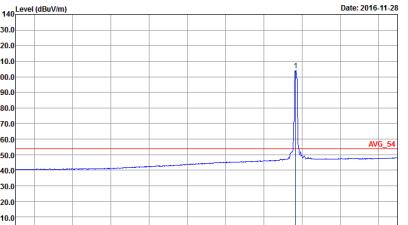


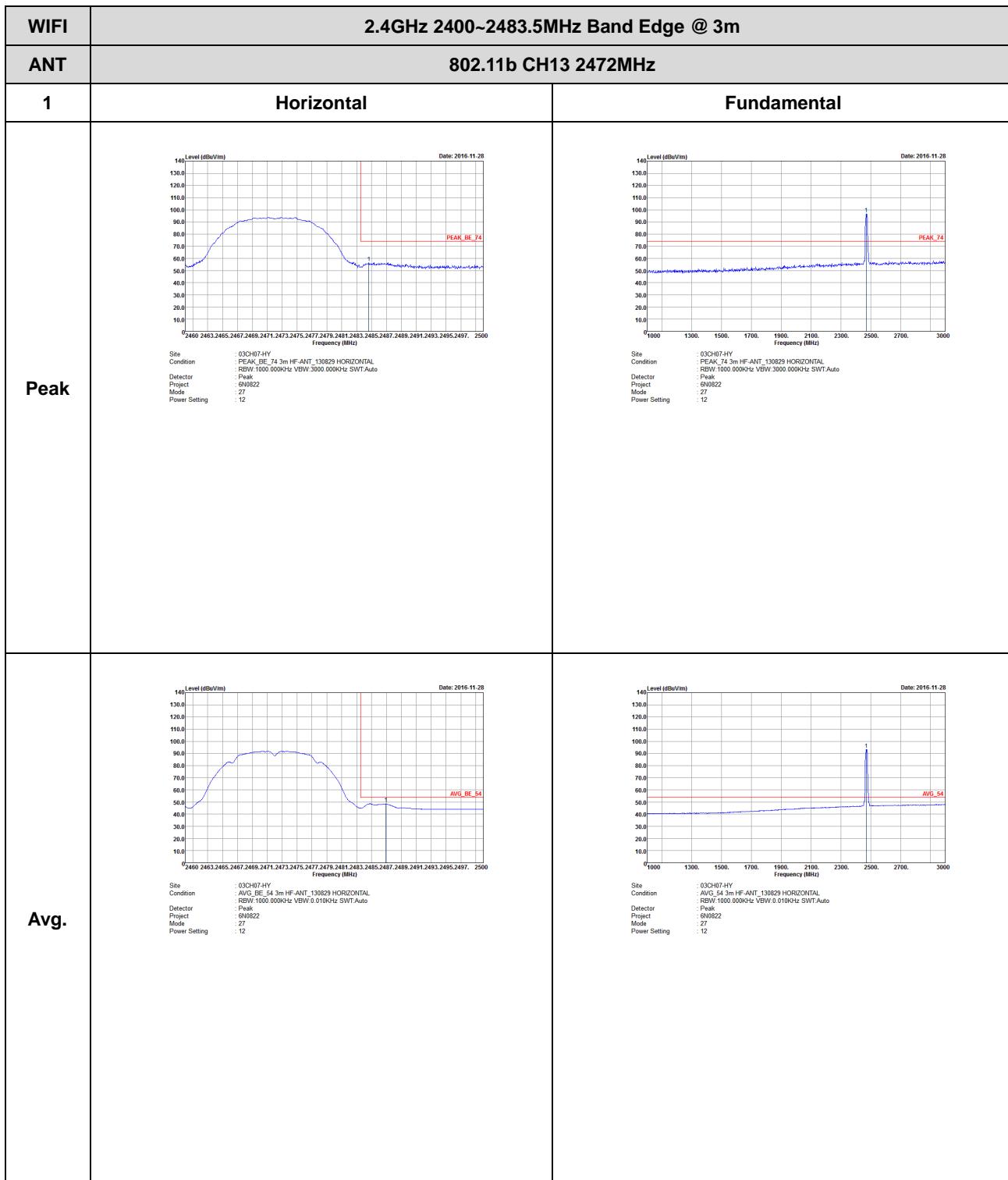


|      |  |   |
|------|--|---|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |   |
| ANT  | 802.11b CH11 2462MHz   |   |
| 1    | Vertical   | Fundamental   |
| Peak |  <p>Level (dBuV/m)</p> <p>Date: 2016-11-26</p> <p>2460 2463.2465.2467.2469.2471.2473.2475.2477.2479.2481.2483.2485.2487.2489.2491.2493.2495.2497. 2500</p> <p>Frequency (MHz)</p> <p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 9</p> |  <p>Level (dBuV/m)</p> <p>Date: 2016-11-26</p> <p>1000 1300. 1500. 1700. 1900. 2100. 2300. 2500. 2700. 3000</p> <p>Frequency (MHz)</p> <p>Site : PEAK_74 3m HF-ANT_130829 VERTICAL<br/>Condition : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 9</p> |
| Avg. |  <p>Level (dBuV/m)</p> <p>Date: 2016-11-26</p> <p>2460 2463.2465.2467.2469.2471.2473.2475.2477.2479.2481.2483.2485.2487.2489.2491.2493.2495.2497. 2500</p> <p>Frequency (MHz)</p> <p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 9</p>   |  <p>Level (dBuV/m)</p> <p>Date: 2016-11-26</p> <p>1000 1300. 1500. 1700. 1900. 2100. 2300. 2500. 2700. 3000</p> <p>Frequency (MHz)</p> <p>Site : AVG_54 3m HF-ANT_130829 VERTICAL<br/>Condition : RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 9</p>   |

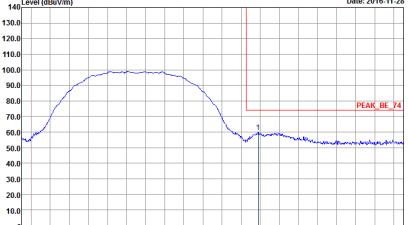
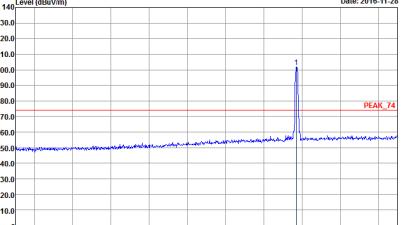
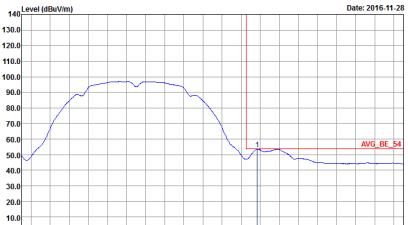
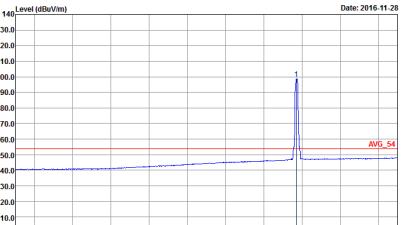




|      |  |  |
|------|--|--|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |  |
| ANT  | 802.11b CH12 2467MHz   |  |
| 1    | Vertical   | Fundamental  |
| Peak | <br>Site: 03CH074Y<br>Condition: PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br>RBW: 1000.000KHz VBW: 3000.000KHz SWT:Auto<br>Detector: Peak<br>Project: 6N0822<br>Mode: 26<br>Power Setting: 17 | <br>Site: 03CH074Y<br>Condition: PEAK_74 3m HF-ANT_130829 VERTICAL<br>RBW: 1000.000KHz VBW: 3000.000KHz SWT:Auto<br>Detector: Peak<br>Project: 6N0822<br>Mode: 26<br>Power Setting: 17 |
| Avg. | <br>Site: 03CH074Y<br>Condition: AVG_BE_54 3m HF-ANT_130829 VERTICAL<br>RBW: 1000.000KHz VBW: 0.010KHz SWT:Auto<br>Detector: Peak<br>Project: 6N0822<br>Mode: 26<br>Power Setting: 17   | <br>Site: 03CH074Y<br>Condition: AVG_54 3m HF-ANT_130829 VERTICAL<br>RBW: 1000.000KHz VBW: 0.010KHz SWT:Auto<br>Detector: Peak<br>Project: 6N0822<br>Mode: 26<br>Power Setting: 17   |





|      |  |             |
|------|--|-------------|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |             |
| ANT  | 802.11b CH13 2472MHz   |             |
| 1    | Vertical   | Fundamental |
| Peak | <br>Site: 03CH074Y<br>Condition: PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br>RBW: 1000.000KHz VBW: 3000.000KHz SWT:Auto<br>Detector: Peak<br>Project: 6N0822<br>Mode: 27<br>Power Setting: 12<br><br><br>Site: 03CH074Y<br>Condition: PEAK_74 3m HF-ANT_130829 VERTICAL<br>RBW: 1000.000KHz VBW: 3000.000KHz SWT:Auto<br>Detector: Peak<br>Project: 6N0822<br>Mode: 27<br>Power Setting: 12 |             |
| Avg. | <br>Site: 03CH074Y<br>Condition: AVG_BE_54 3m HF-ANT_130829 VERTICAL<br>RBW: 1000.000KHz VBW: 0.010KHz SWT:Auto<br>Detector: Peak<br>Project: 6N0822<br>Mode: 27<br>Power Setting: 12<br><br><br>Site: 03CH074Y<br>Condition: AVG_54 3m HF-ANT_130829 VERTICAL<br>RBW: 1000.000KHz VBW: 0.010KHz SWT:Auto<br>Detector: Peak<br>Project: 6N0822<br>Mode: 27<br>Power Setting: 12     |             |

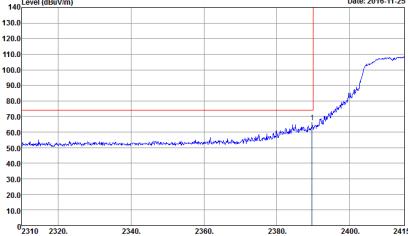
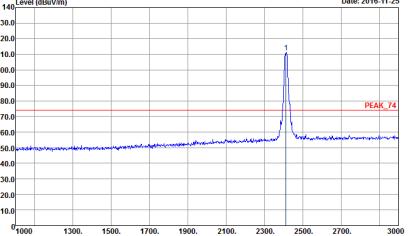
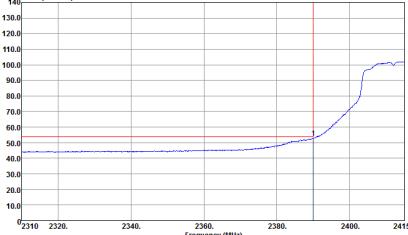
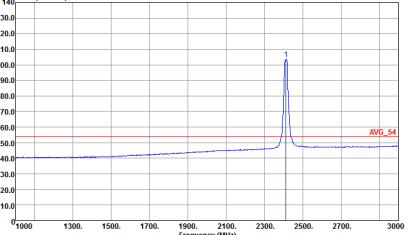


## 2.4GHz 2400~2483.5MHz

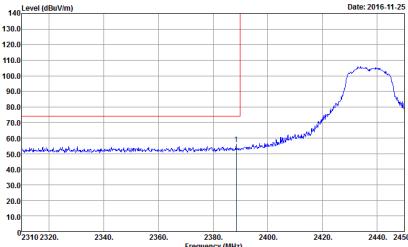
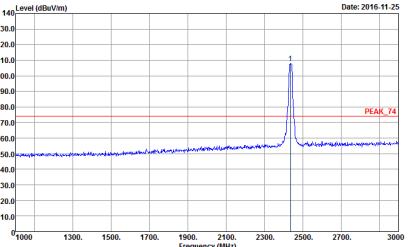
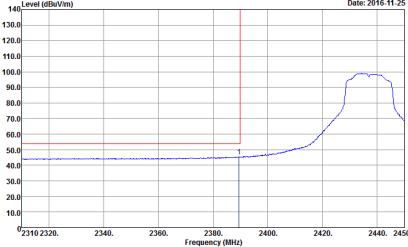
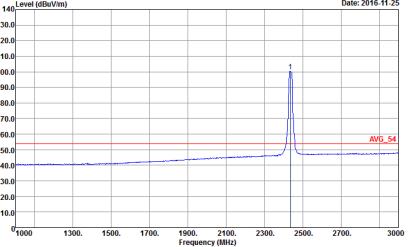
## WIFI 802.11g (Band Edge @ 3m)

| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m  |  |
|------|---|--|
| ANT  | 802.11g CH01 2412MHz  |  |
| 1    | Horizontal  | Fundamental  |
| Peak | <p>Site: 03CH07-HY<br/>Condition: PEAK_BE_74_3m_HF-ANT_130829_HORIZONTAL<br/>RBW: 1000.000kHz VBW: 3000.000kHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 10<br/>: 17.25</p> | <p>Site: 03CH07-HY<br/>Condition: PEAK_74_3m_HF-ANT_130829_HORIZONTAL<br/>RBW: 1000.000kHz VBW: 3000.000kHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 10<br/>: 17.25</p> |
| Avg. | <p>Site: 03CH07-HY<br/>Condition: AVG_BE_54_3m_HF-ANT_130829_HORIZONTAL<br/>RBW: 1000.000kHz VBW: 1.000kHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 10<br/>: 17.25</p>     | <p>Site: 03CH07-HY<br/>Condition: AVG_54_3m_HF-ANT_130829_HORIZONTAL<br/>RBW: 1000.000kHz VBW: 1.000kHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 10<br/>: 17.25</p>     |



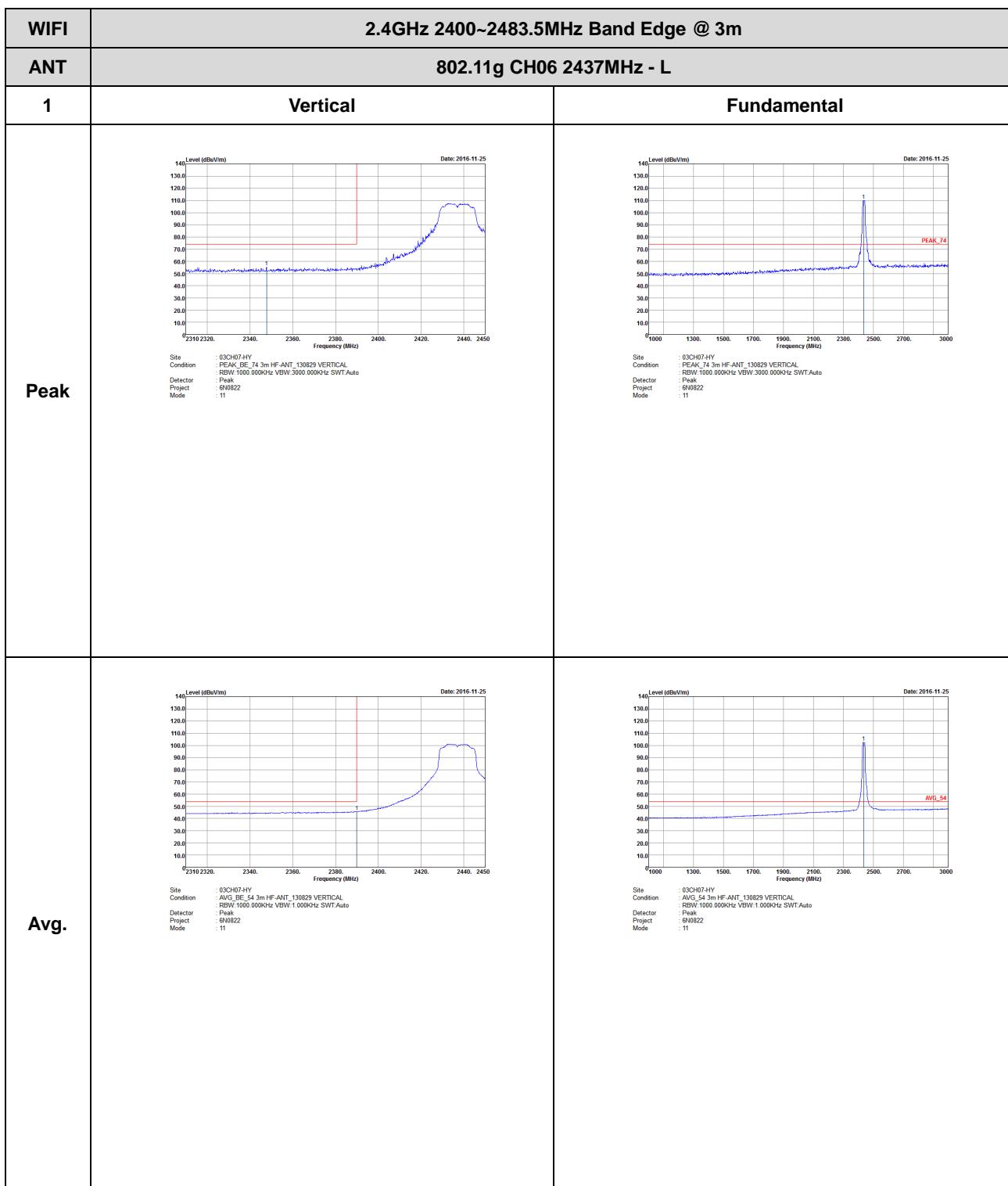
|      |  |  |
|------|--|--|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |  |
| ANT  | 802.11g CH01 2412MHz   |  |
| 1    | Vertical   | Fundamental  |
| Peak | <br>Site : 03CH07-HY<br>Condition : PEAK_BE_74_3m_HF-ANT_130829 VERTICAL<br>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 6N0822<br>Mode : 10<br>: 17.25 | <br>Site : 03CH07-HY<br>Condition : PEAK_74_3m_HF-ANT_130829 VERTICAL<br>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 6N0822<br>Mode : 10<br>: 17.25 |
| Avg. | <br>Site : 03CH07-HY<br>Condition : AVG_BE_54_3m_HF-ANT_130829 VERTICAL<br>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br>Detector : Peak<br>Project : 6N0822<br>Mode : 10<br>: 17.25   | <br>Site : 03CH07-HY<br>Condition : AVG_54_3m_HF-ANT_130829 VERTICAL<br>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br>Detector : Peak<br>Project : 6N0822<br>Mode : 10<br>: 17.25   |



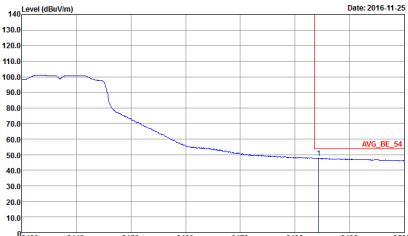
|      |   |   |
|------|---|---|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m  |   |
| ANT  | 802.11g CH06 2437MHz - L  |   |
| 1    | Horizontal  | Fundamental   |
| Peak |  <p>Site: 03CH07-HY<br/>Condition: PEAK_BE_74.3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 11</p> |  <p>Site: 03CH07-HY<br/>Condition: PEAK_74 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 11</p> |
| Avg. |  <p>Site: 03CH07-HY<br/>Condition: AVG_BE_54.3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 11</p>   |  <p>Site: 03CH07-HY<br/>Condition: AVG_54 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 11</p>   |



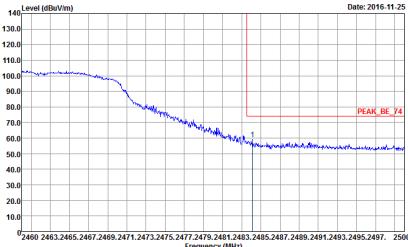
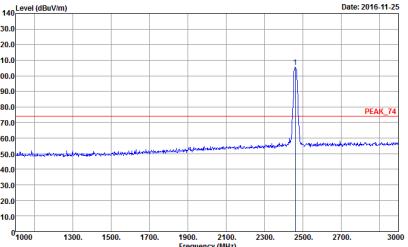
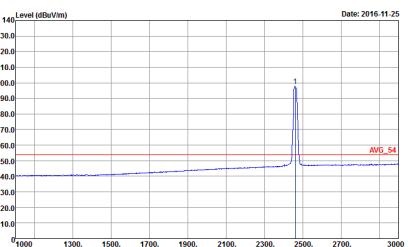
|      |   |             |
|------|---|-------------|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m  |             |
| ANT  | 802.11g CH06 2437MHz - R  |             |
| 1    | Horizontal  | Fundamental |
| Peak | <p>Site: 03CH07-HY<br/>Condition: PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>RBW: 1000.000KHz VSWR: 3.000.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 11</p> | Left blank  |
| Avg. | <p>Site: 03CH07-HY<br/>Condition: AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>RBW: 1000.000KHz VSWR: 1.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 11</p>      | Left blank  |

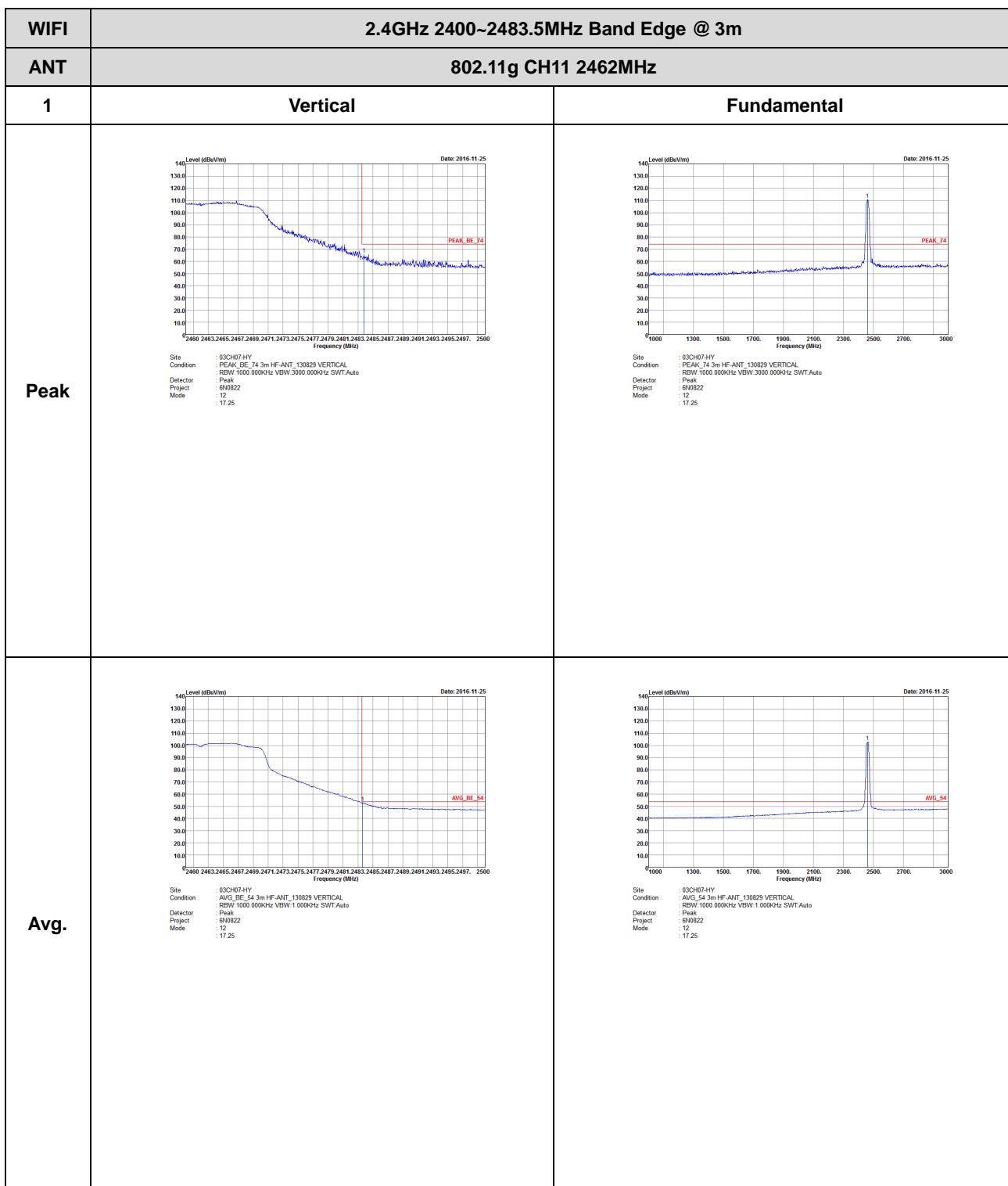


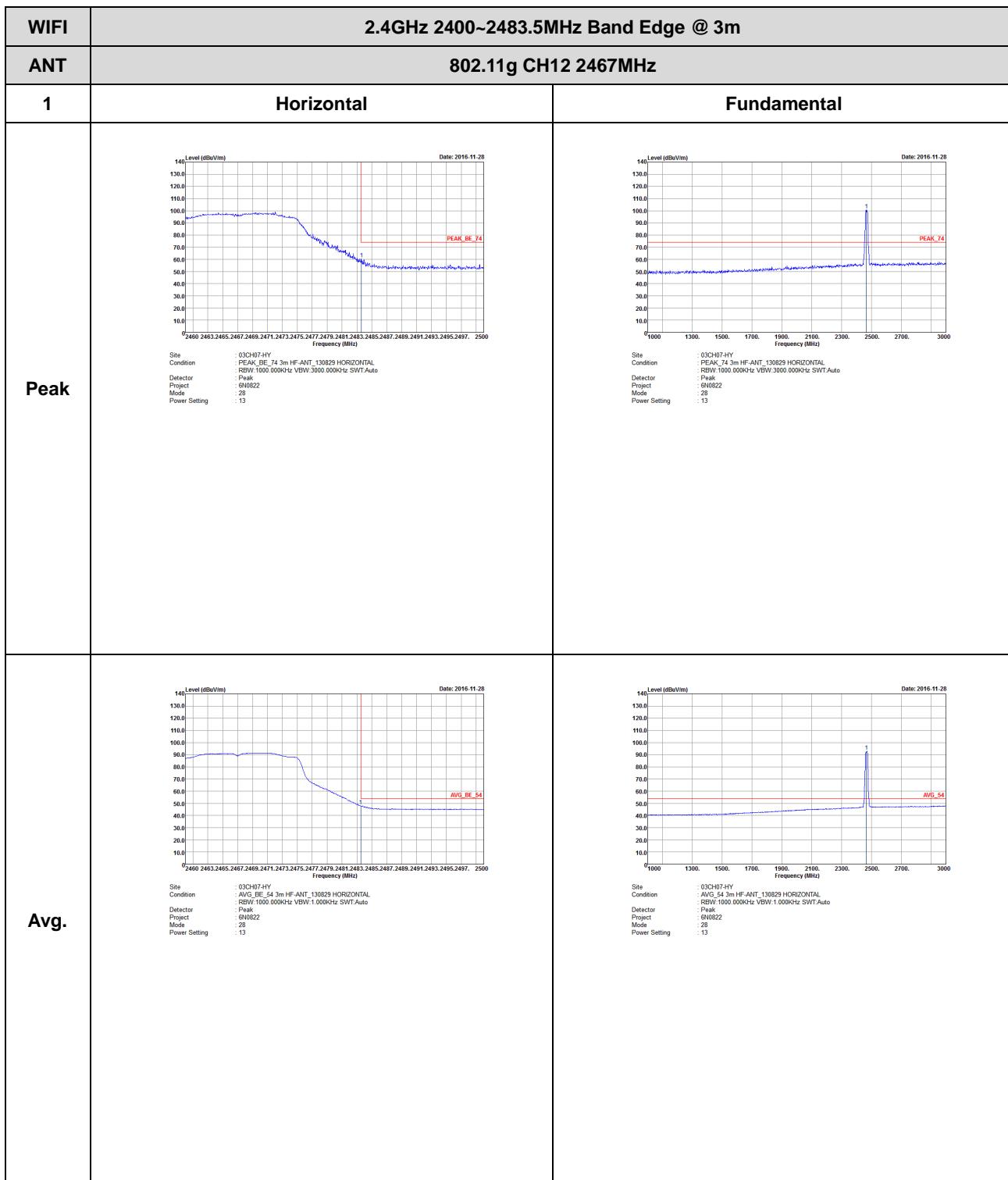


|      |  |             |
|------|--|-------------|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |             |
| ANT  | 802.11g CH06 2437MHz - R   |             |
| 1    | Vertical   | Fundamental |
| Peak |  <p>Site Condition : 03CH07-HY<br/>PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>RBW-1000.000KHz VBW-3000.000KHz SWT-Auto<br/>Detector Peak<br/>Project 6N0822<br/>Mode : 11</p> | Left Blank  |
| Avg. |  <p>Site Condition : 03CH07-HY<br/>AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>RBW-1000.000KHz VBW-1.000KHz SWT-Auto<br/>Detector Peak<br/>Project 6N0822<br/>Mode : 11</p>   | Left Blank  |

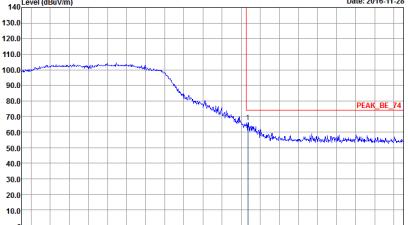
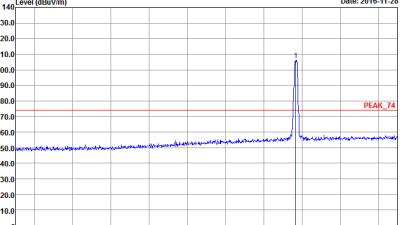
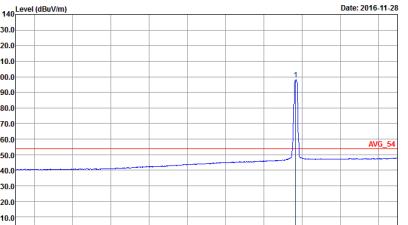


|      |  |  |
|------|--|--|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |  |
| ANT  | 802.11g CH11 2462MHz   |  |
| 1    | Horizontal   | Fundamental  |
| Peak |  <p>Site: 03CH07-HY<br/>Condition: PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 12<br/>Date: 2016-11-25</p> |  <p>Site: 03CH07-HY<br/>Condition: PEAK_74 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 12<br/>Date: 2016-11-25</p> |
| Avg. |  <p>Site: 03CH07-HY<br/>Condition: AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 12<br/>Date: 2016-11-25</p>   |  <p>Site: 03CH07-HY<br/>Condition: AVG_54 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 12<br/>Date: 2016-11-25</p>   |

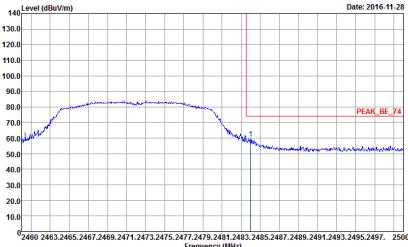
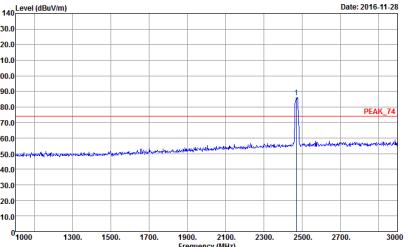
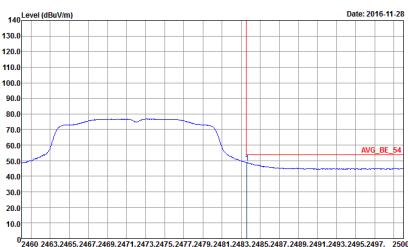




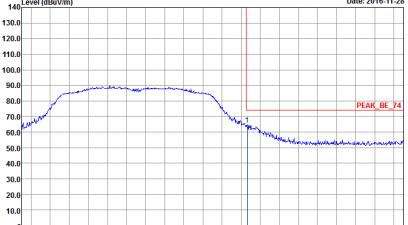
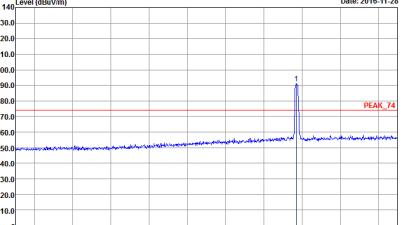
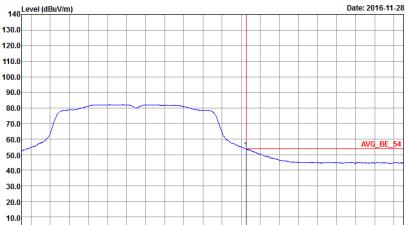
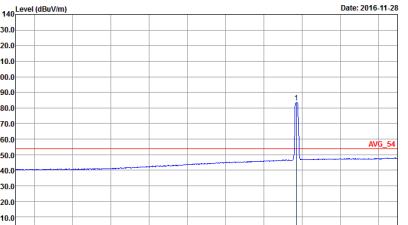


|      |  |  |
|------|--|--|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |  |
| ANT  | 802.11g CH12 2467MHz   |  |
| 1    | Vertical   | Fundamental  |
| Peak | <br>Site: 03CH074Y<br>Condition: PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br>RBW: 1000.000KHz VBW: 3000.000KHz SWT:Auto<br>Detector: Peak<br>Project: 6N0822<br>Mode: 28<br>Power Setting: 13 | <br>Site: 03CH074Y<br>Condition: PEAK_74 3m HF-ANT_130829 VERTICAL<br>RBW: 1000.000KHz VBW: 3000.000KHz SWT:Auto<br>Detector: Peak<br>Project: 6N0822<br>Mode: 28<br>Power Setting: 13 |
| Avg. | <br>Site: 03CH074Y<br>Condition: AVG_BE_54 3m HF-ANT_130829 VERTICAL<br>RBW: 1000.000KHz VBW: 1.000KHz SWT:Auto<br>Detector: Peak<br>Project: 6N0822<br>Mode: 28<br>Power Setting: 13   | <br>Site: 03CH074Y<br>Condition: AVG_54 3m HF-ANT_130829 VERTICAL<br>RBW: 1000.000KHz VBW: 1.000KHz SWT:Auto<br>Detector: Peak<br>Project: 6N0822<br>Mode: 28<br>Power Setting: 13   |



|      |   |   |
|------|---|---|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m  |   |
| ANT  | 802.11g CH13 2472MHz  |   |
| 1    | Horizontal  | Fundamental   |
| Peak | <br>Site: 03CH07.HY<br>Condition: PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br>RBW: 1000.000kHz VBW: 3000.000kHz SWT:Auto<br>Detector: Peak<br>Project: 6N0822<br>Mode: 28<br>Power Setting: -2 | <br>Site: 03CH07.HY<br>Condition: PEAK_74 3m HF-ANT_130829 HORIZONTAL<br>RBW: 1000.000kHz VBW: 3000.000kHz SWT:Auto<br>Detector: Peak<br>Project: 6N0822<br>Mode: 28<br>Power Setting: -2 |
| Avg. | <br>Site: 03CH07.HY<br>Condition: AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br>RBW: 1000.000kHz VBW: 1.000kHz SWT:Auto<br>Detector: Peak<br>Project: 6N0822<br>Mode: 28<br>Power Setting: -2   | <br>Site: 03CH07.HY<br>Condition: AVG_54 3m HF-ANT_130829 HORIZONTAL<br>RBW: 1000.000kHz VBW: 1.000kHz SWT:Auto<br>Detector: Peak<br>Project: 6N0822<br>Mode: 28<br>Power Setting: -2   |



|      |  |  |
|------|--|--|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |  |
| ANT  | 802.11g CH13 2472MHz   |  |
| 1    | Vertical   | Fundamental  |
| Peak |  <p>Site: 03CH074Y<br/>Condition: PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000KHz VBW: 3000.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 28<br/>Power Setting: -2</p> |  <p>Site: 03CH074Y<br/>Condition: PEAK_74 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000KHz VBW: 3000.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 28<br/>Power Setting: -2</p> |
| Avg. |  <p>Site: 03CH074Y<br/>Condition: AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000KHz VBW: 1.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 28<br/>Power Setting: -2</p>   |  <p>Site: 03CH074Y<br/>Condition: AVG_54 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000KHz VBW: 1.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 28<br/>Power Setting: -2</p>   |

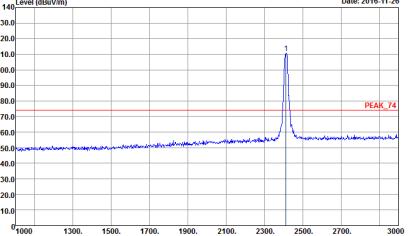
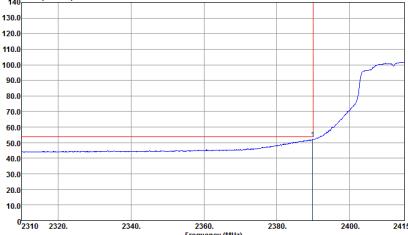
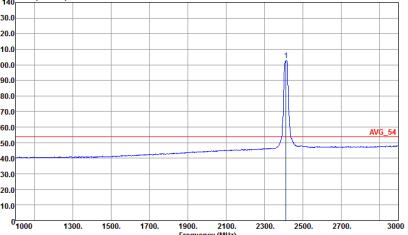


2.4GHz 2400~2483.5MHz

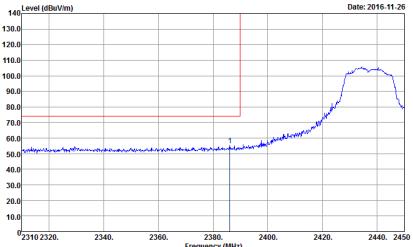
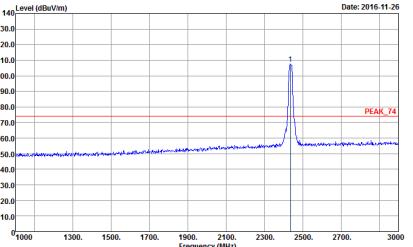
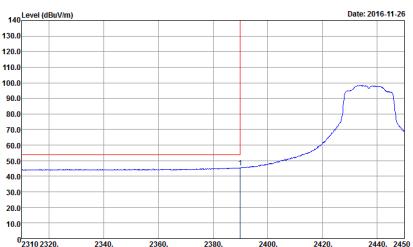
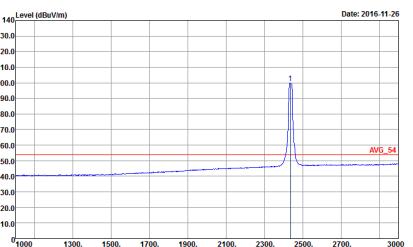
WIFI 802.11n HT20 (Band Edge @ 3m)

|             |   |   |
|-------------|---|---|
| <b>WIFI</b> | <b>2.4GHz 2400~2483.5MHz Band Edge @ 3m</b>   |   |
| <b>ANT</b>  | <b>802.11n HT20 CH01 2412MHz</b>  |   |
| <b>1</b>    | <b>Horizontal</b>   | <b>Fundamental</b>  |
| <b>Peak</b> | <br>Site: 03CH07-HY<br>Condition: AVG_BE_74_3m_HF-ANT_130829_HORIZONTAL<br>RBW: 1000.000kHz VBW: 3000.000kHz SWT:Auto<br>Detector: Peak<br>Project: 6N0822<br>Mode: 13 : 17 | <br>Site: 03CH07-HY<br>Condition: PEAK_74_3m_HF-ANT_130829_HORIZONTAL<br>RBW: 1000.000kHz VBW: 3000.000kHz SWT:Auto<br>Detector: Peak<br>Project: 6N0822<br>Mode: 13 : 17 |
| <b>Avg.</b> | <br>Site: 03CH07-HY<br>Condition: AVG_BE_54_3m_HF-ANT_130829_HORIZONTAL<br>RBW: 1000.000kHz VBW: 1.000kHz SWT:Auto<br>Detector: Peak<br>Project: 6N0822<br>Mode: 13 : 17    | <br>Site: 03CH07-HY<br>Condition: AVG_54_3m_HF-ANT_130829_HORIZONTAL<br>RBW: 1000.000kHz VBW: 1.000kHz SWT:Auto<br>Detector: Peak<br>Project: 6N0822<br>Mode: 13 : 17     |

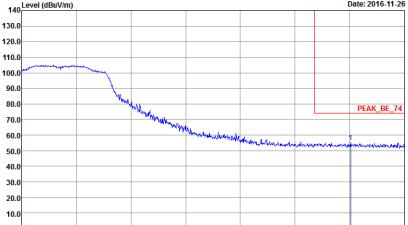
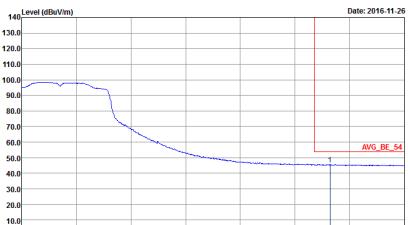


|      |   |   |
|------|---|---|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m  |   |
| ANT  | 802.11n HT20 CH01 2412MHz   |   |
| 1    | Vertical  | Fundamental   |
| Peak |  <p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74_3m_HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWF:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 13<br/>: 17</p> |  <p>Site : 03CH07-HY<br/>Condition : PEAK_74_3m_HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWF:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 13<br/>: 17</p> |
| Avg. |  <p>Site : 03CH07-HY<br/>Condition : AVG_BE_54_3m_HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:1.000KHz SWF:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 13<br/>: 17</p>   |  <p>Site : 03CH07-HY<br/>Condition : AVG_54_3m_HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:1.000KHz SWF:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 13<br/>: 17</p>   |

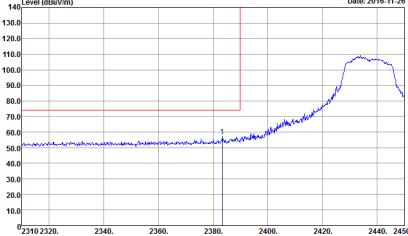
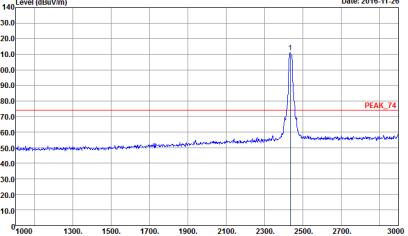
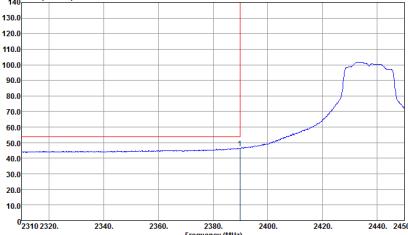
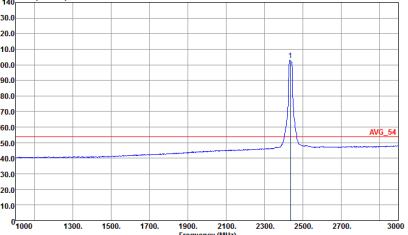


|      |   |   |
|------|---|---|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m  |   |
| ANT  | 802.11n HT20 CH06 2437MHz - L   |   |
| 1    | Horizontal  | Fundamental   |
| Peak |  <p>Site: 03CH07-HY<br/>Condition: PEAK_BE_74_3m_HF-ANT_130829_HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 14</p> |  <p>Site: 03CH07-HY<br/>Condition: PEAK_74_3m_HF-ANT_130829_HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 14</p> |
| Avg. |  <p>Site: 03CH07-HY<br/>Condition: AVG_BE_54_3m_HF-ANT_130829_HORIZONTAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 14</p>   |  <p>Site: 03CH07-HY<br/>Condition: AVG_54_3m_HF-ANT_130829_HORIZONTAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 14</p>   |



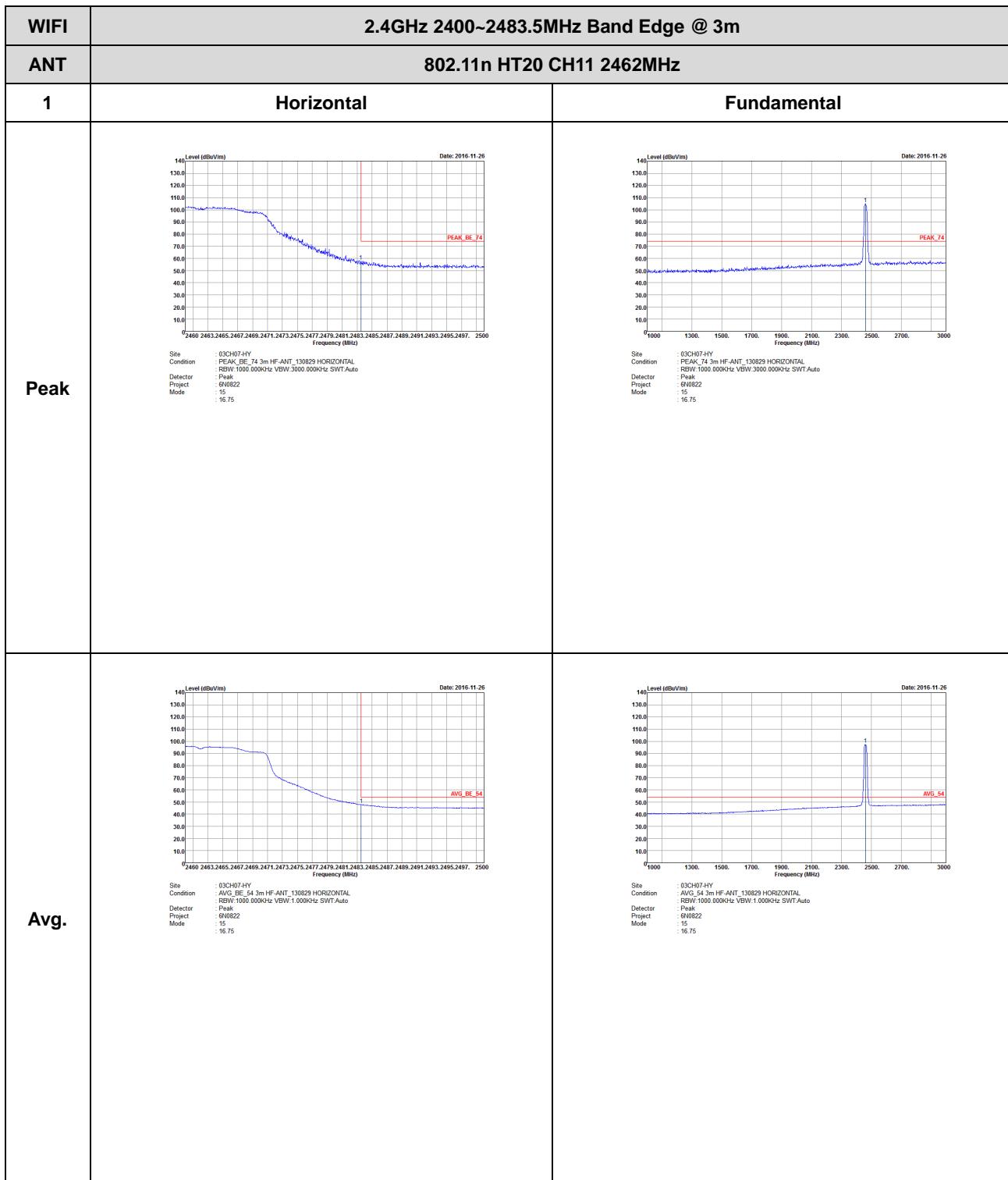
|      |   |             |
|------|---|-------------|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m  |             |
| ANT  | 802.11n HT20 CH06 2437MHz - R   |             |
| 1    | Horizontal  | Fundamental |
| Peak |  <p>Site: 03CH07-HY<br/>Condition: PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>RBW: 1000.000KHz VSW: 3000.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 14</p> | Left blank  |
| Avg. |  <p>Site: 03CH07-HY<br/>Condition: AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>RBW: 1000.000KHz VSW: 1.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 14</p>   | Left blank  |



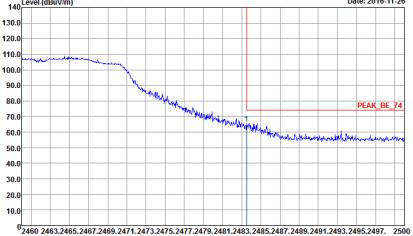
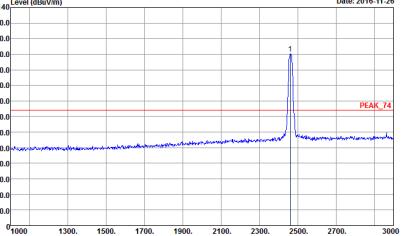
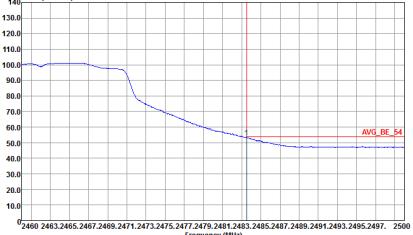
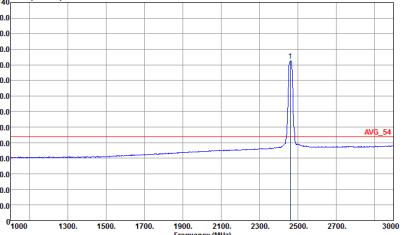
|      |  |  |
|------|--|--|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |  |
| ANT  | 802.11n HT20 CH06 2437MHz - L  |  |
| 1    | Vertical   | Fundamental  |
| Peak |  <p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74_3m_HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWF:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 14</p> |  <p>Site : PEAK_74_3m_HF-ANT_130829 VERTICAL<br/>Condition : RBW:1000.000KHz VBW:3000.000KHz SWF:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 14</p> |
| Avg. |  <p>Site : 03CH07-HY<br/>Condition : AVG_BE_54_3m_HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:1.000KHz SWF:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 14</p>   |  <p>Site : AVG_54_3m_HF-ANT_130829 VERTICAL<br/>Condition : RBW:1000.000KHz VBW:1.000KHz SWF:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 14</p>   |

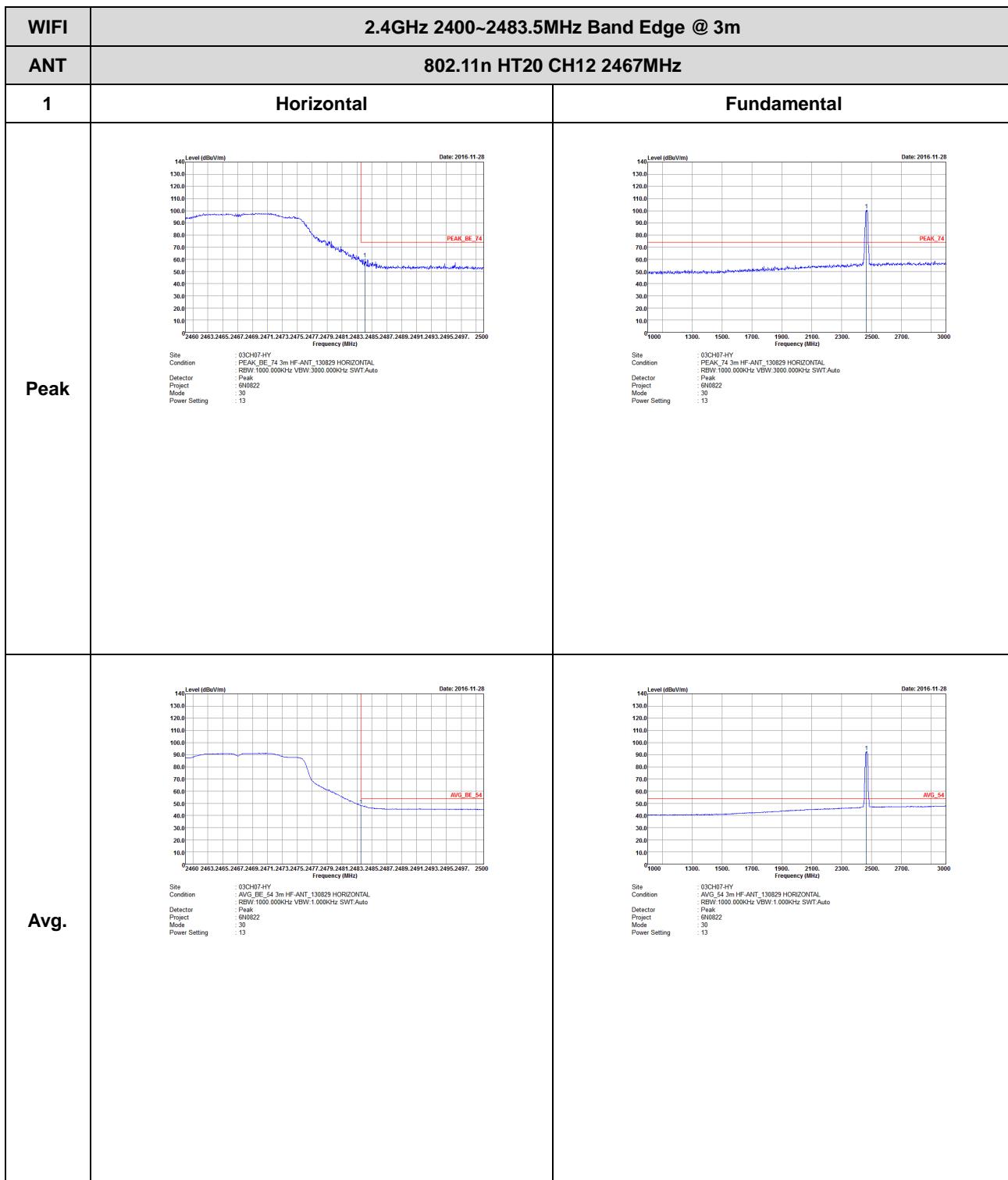


|      |   |             |
|------|---|-------------|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m  |             |
| ANT  | 802.11n HT20 CH06 2437MHz - R   |             |
| 1    | Vertical  | Fundamental |
| Peak | <p>Site: 03CH07-HY<br/>Condition: PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWF:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 14</p> | Left Blank  |
| Avg. | <p>Site: 03CH07-HY<br/>Condition: AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:1.000KHz SWF:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 14</p>     | Left Blank  |

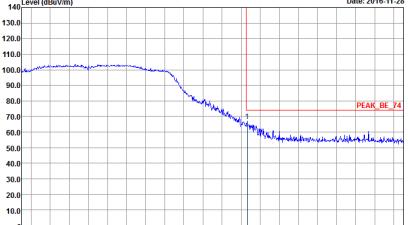
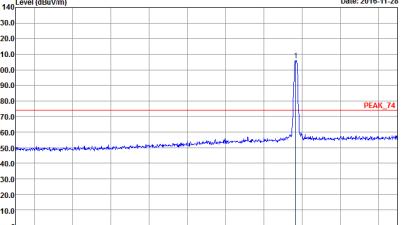
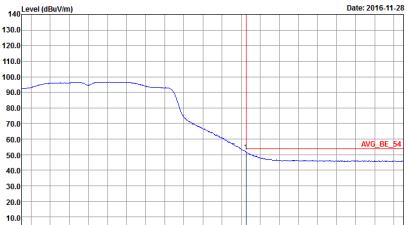
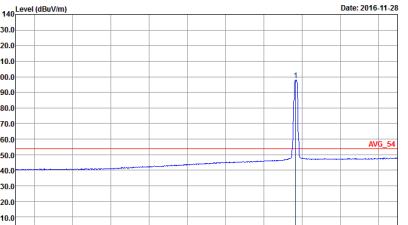




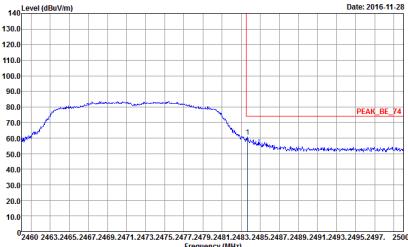
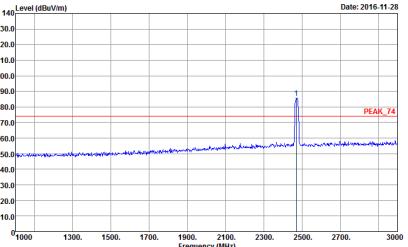
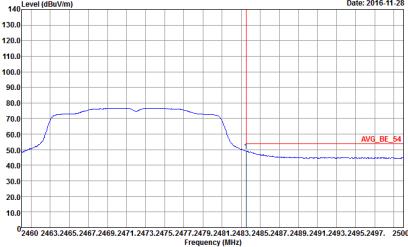
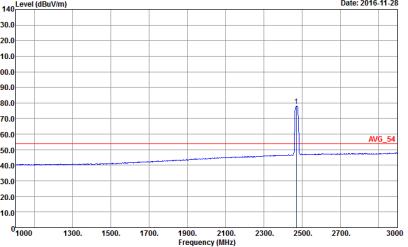
|      |   |   |
|------|---|---|
| WIFI | 2.4GHz 2400~2483.5MHz Fundamental @ 3m  |   |
| ANT  | 802.11n HT20 CH11 2462MHz   |   |
| 1    | Vertical  | Fundamental   |
| Peak | <br>Site Condition : 03CH07-HY<br>Detector Project : PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br>Mode : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Project : 6N0822<br>Mode : 15<br>Detector : Peak<br>Site : 16.75 | <br>Site Condition : 03CH07-HY<br>Detector Project : PEAK_74 3m HF-ANT_130829 VERTICAL<br>Mode : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Project : 6N0822<br>Mode : 15<br>Detector : Peak<br>Site : 16.75 |
| Avg. | <br>Site Condition : 03CH07-HY<br>Detector Project : AVG_BE_54 3m HF-ANT_130829 VERTICAL<br>Mode : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br>Project : 6N0822<br>Mode : 15<br>Detector : Peak<br>Site : 16.75   | <br>Site Condition : 03CH07-HY<br>Detector Project : AVG_54 3m HF-ANT_130829 VERTICAL<br>Mode : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br>Project : 6N0822<br>Mode : 15<br>Detector : Peak<br>Site : 16.75   |



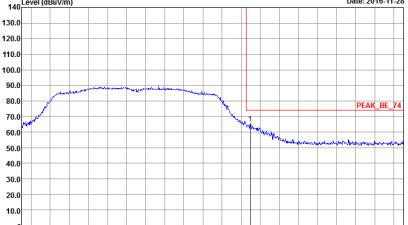
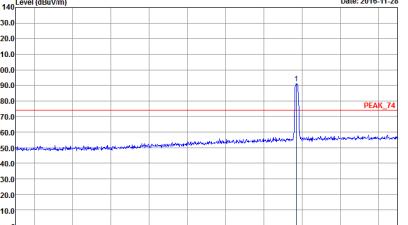
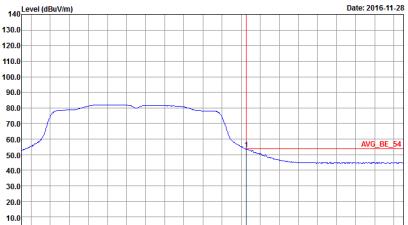
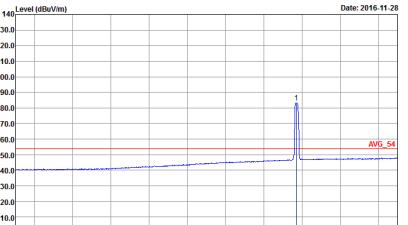


|      |  |  |
|------|--|--|
| WIFI | 2.4GHz 2400~2483.5MHz Fundamental @ 3m   |  |
| ANT  | 802.11n HT20 CH12 2467MHz  |  |
| 1    | Vertical   | Fundamental  |
| Peak |  <p>Site: 03CH074Y<br/>Condition: PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000KHz VBW: 3000.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 30<br/>Power Setting: 13</p> |  <p>Site: 03CH074Y<br/>Condition: PEAK_74 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000KHz VBW: 3000.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 30<br/>Power Setting: 13</p> |
| Avg. |  <p>Site: 03CH074Y<br/>Condition: AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000KHz VBW: 1.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 30<br/>Power Setting: 13</p>   |  <p>Site: 03CH074Y<br/>Condition: AVG_54 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000KHz VBW: 1.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 30<br/>Power Setting: 13</p>   |



|      |  |  |
|------|--|--|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |  |
| ANT  | 802.11n HT20 CH13 2472MHz  |  |
| 1    | Horizontal   | Fundamental  |
| Peak |  <p>Site: 03CH07.HY<br/>Condition: PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 31<br/>Power Setting: -2.25</p>  |  <p>Site: 03CH07.HY<br/>Condition: PEAK_74 3m HF-ANT_130829 HORIZONTAL<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 31<br/>Power Setting: -2.25</p>  |
| Avg. |  <p>Site: 03CH07.HY<br/>Condition: AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 31<br/>Power Setting: -2.25</p> |  <p>Site: 03CH07.HY<br/>Condition: AVG_54 3m HF-ANT_130829 HORIZONTAL<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 31<br/>Power Setting: -2.25</p> |

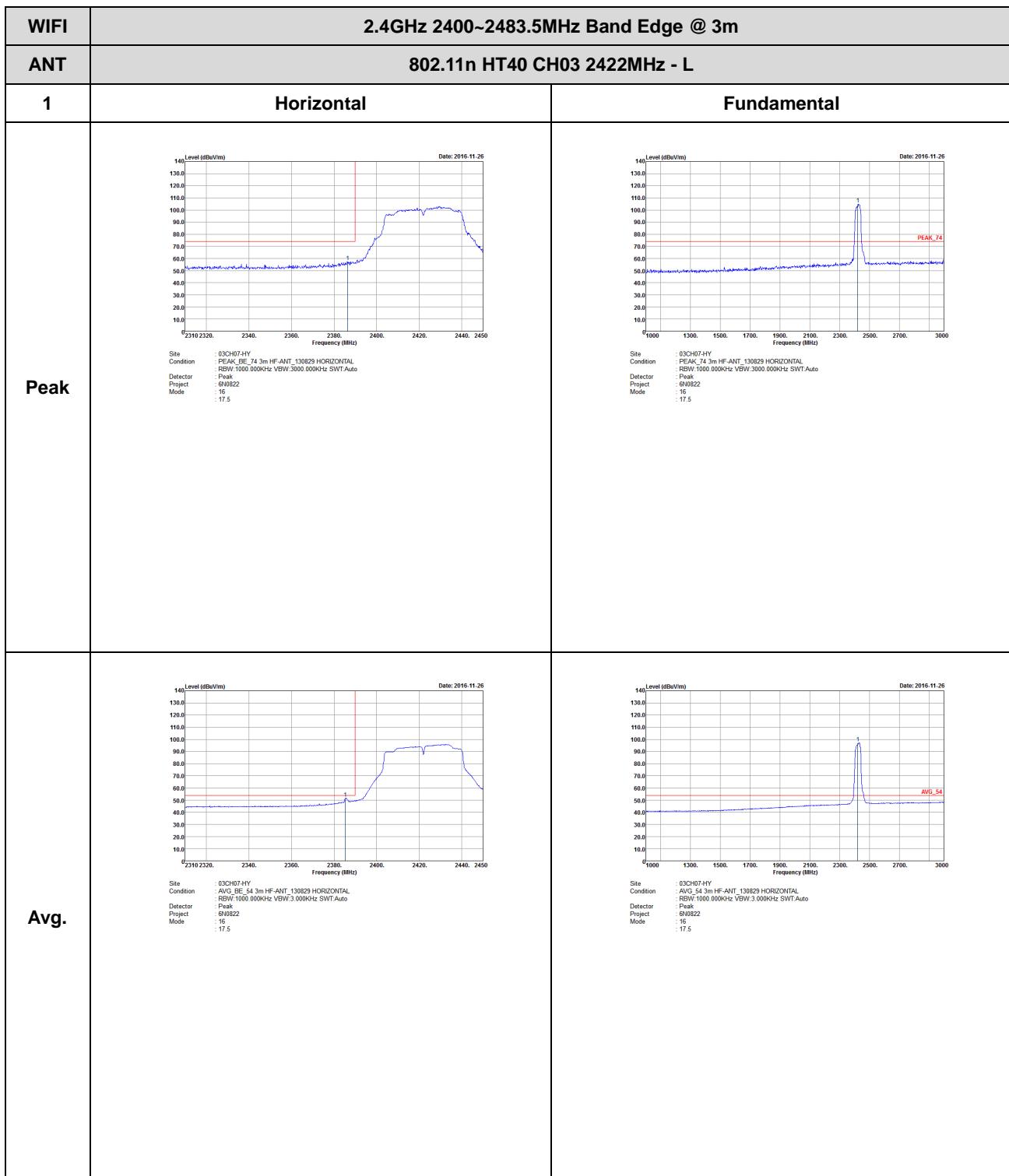


|      |   |   |
|------|---|---|
| WIFI | 2.4GHz 2400~2483.5MHz Fundamental @ 3m  |   |
| ANT  | 802.11n HT20 CH14 2472MHz   |   |
| 1    | Vertical  | Fundamental   |
| Peak | <br>Site: 03CH074Y<br>Condition: PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br>Detector: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector: Peak<br>Project: 6N0822<br>Mode: 31<br>Power Setting: -2.25 | <br>Site: 03CH074Y<br>Condition: PEAK_74 3m HF-ANT_130829 VERTICAL<br>Detector: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector: Peak<br>Project: 6N0822<br>Mode: 31<br>Power Setting: -2.25 |
| Avg. | <br>Site: 03CH074Y<br>Condition: AVG_BE_54 3m HF-ANT_130829 VERTICAL<br>Detector: RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br>Detector: Peak<br>Project: 6N0822<br>Mode: 31<br>Power Setting: -2.25   | <br>Site: 03CH074Y<br>Condition: AVG_54 3m HF-ANT_130829 VERTICAL<br>Detector: RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br>Detector: Peak<br>Project: 6N0822<br>Mode: 31<br>Power Setting: -2.25   |

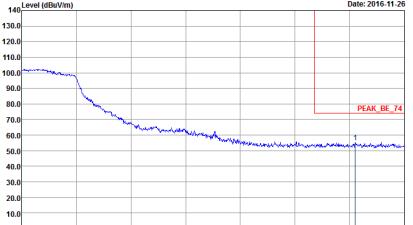
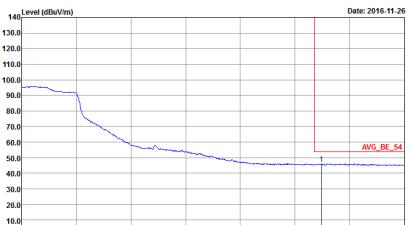


2.4GHz 2400~2483.5MHz

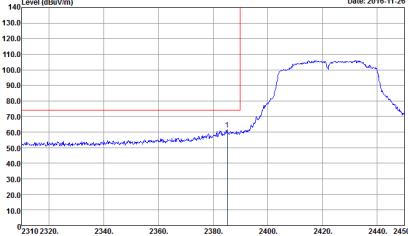
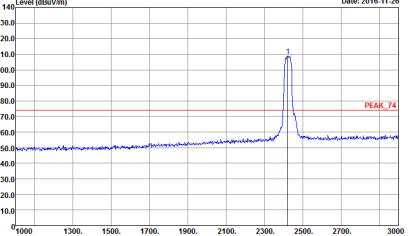
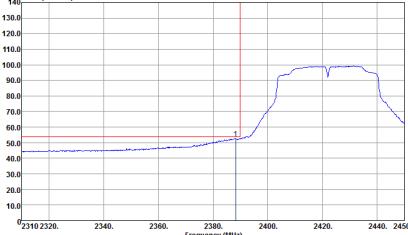
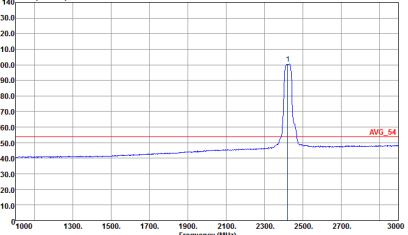
WIFI 802.11n HT40 (Band Edge @ 3m)



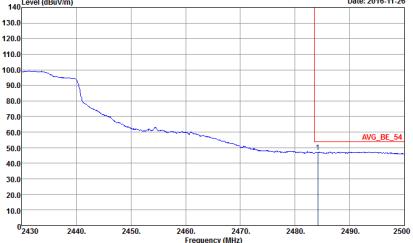


|      |   |             |
|------|---|-------------|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m  |             |
| ANT  | 802.11n HT40 CH03 2422MHz - R   |             |
| 1    | Horizontal  | Fundamental |
| Peak |  <p>Level (dBuV/m)</p> <p>Date: 2016-11-26</p> <p>PEAK_BE_74</p> <p>Site: 03CH07-HY<br/>Condition: PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 16 : 17.5</p> | Left Blank  |
| Avg. |  <p>Level (dBuV/m)</p> <p>Date: 2016-11-26</p> <p>AVG_BE_54</p> <p>Site: 03CH07-HY<br/>Condition: AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 16 : 17.5</p> | Left Blank  |

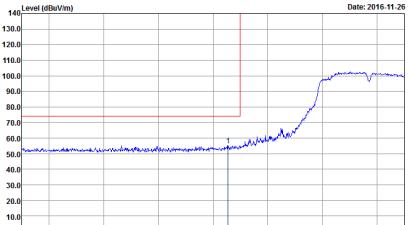
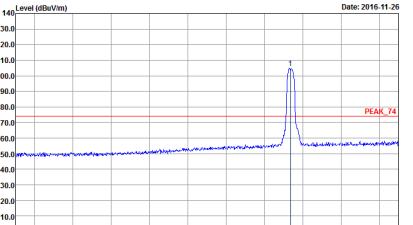
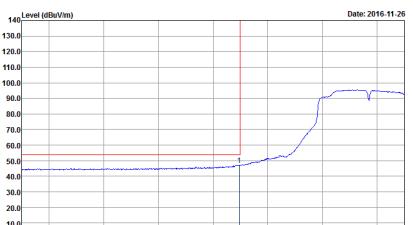
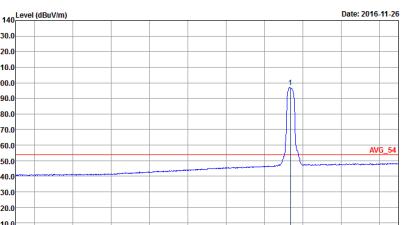


|      |   |   |
|------|---|---|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m  |   |
| ANT  | 802.11n HT40 CH03 2422MHz - L   |   |
| 1    | Vertical  | Fundamental   |
| Peak |  <p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74_3m_HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 16<br/>: 17.5</p> |  <p>Site : 03CH07-HY<br/>Condition : PEAK_74_3m_HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 16<br/>: 17.5</p> |
| Avg. |  <p>Site : 03CH07-HY<br/>Condition : AVG_BE_54_3m_HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 16<br/>: 17.5</p>   |  <p>Site : 03CH07-HY<br/>Condition : AVG_54_3m_HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 16<br/>: 17.5</p>   |



|      |  |             |
|------|--|-------------|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |             |
| ANT  | 802.11n HT40 CH03 2422MHz - R  |             |
| 1    | Vertical   | Fundamental |
| Peak |  <p>Site Condition: 03CH07-HY PEAK_BE_74 3m HF-ANT_130822 VERTICAL<br/>Detector: RBW-1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project: 6N0822<br/>Mode: 16 17.5</p> | Left blank  |
| Avg. |  <p>Site Condition: 03CH07-HY AVG_BE_54 3m HF-ANT_130822 VERTICAL<br/>Detector: RBW-1000.000KHz VBW:3.000KHz SWT:Auto<br/>Project: 6N0822<br/>Mode: 16 17.5</p>   | Left blank  |

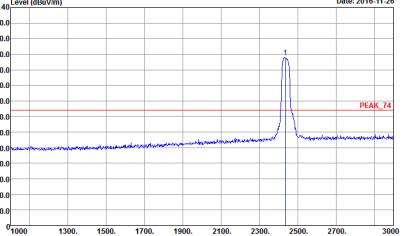
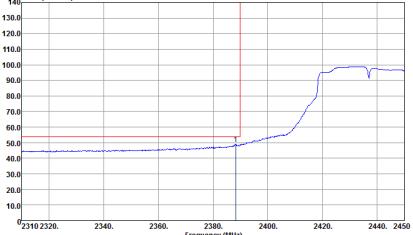
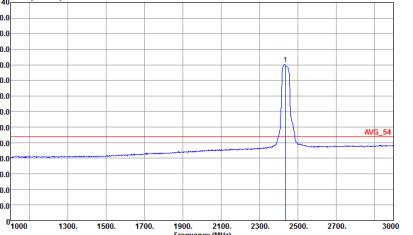


|      |  |  |
|------|--|--|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |  |
| ANT  | 802.11n HT40 CH06 2437MHz - L  |  |
| 1    | Horizontal   | Fundamental  |
| Peak |  <p>Site: 03CH07-HY<br/>Condition: PEAK_BE_74.3m_HF-ANT_130829_HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 17<br/>18</p> |  <p>Site: 03CH07-HY<br/>Condition: PEAK_74.3m_HF-ANT_130829_HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 17<br/>18</p> |
| Avg. |  <p>Site: 03CH07-HY<br/>Condition: AVG_BE_54.3m_HF-ANT_130829_HORIZONTAL<br/>RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 17<br/>18</p>   |  <p>Site: 03CH07-HY<br/>Condition: AVG_54.3m_HF-ANT_130829_HORIZONTAL<br/>RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 17<br/>18</p>   |



|      |  |             |
|------|--|-------------|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |             |
| ANT  | 802.11n HT40 CH06 2437MHz - R  |             |
| 1    | Horizontal   | Fundamental |
| Peak |  <p>Site: 03CH07-HY<br/>Condition: PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>RBW: 1000.000KHz VBW: 3.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 17<br/>18</p>  | Left blank  |
| Avg. |  <p>Site: 03CH07-HY<br/>Condition: AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>RBW: 1000.000KHz VBW: 3.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 17<br/>18</p> | Left blank  |

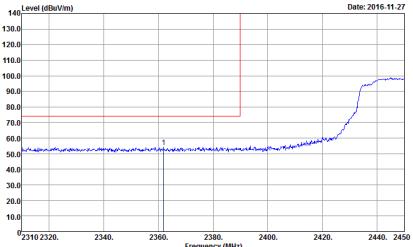
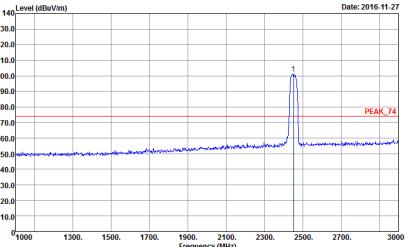
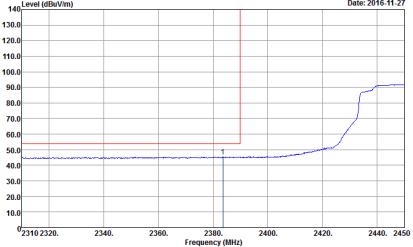
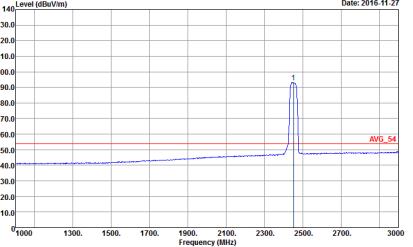


|      |   |   |
|------|---|---|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m  |   |
| ANT  | 802.11n HT40 CH06 2437MHz - L   |   |
| 1    | Vertical  | Fundamental   |
| Peak |  <p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74_3m_HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWF:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 17<br/>18</p> |  <p>Site : 03CH07-HY<br/>Condition : PEAK_74_3m_HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWF:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 17<br/>18</p> |
| Avg. |  <p>Site : 03CH07-HY<br/>Condition : AVG_BE_54_3m_HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3.000KHz SWF:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 17<br/>18</p>   |  <p>Site : 03CH07-HY<br/>Condition : AVG_54_3m_HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3.000KHz SWF:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 17<br/>18</p>   |



|      |   |             |
|------|---|-------------|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m  |             |
| ANT  | 802.11n HT40 CH06 2437MHz - R   |             |
| 1    | Horizontal  | Fundamental |
| Peak | <p>Site: 03CH07-HY<br/>Condition: PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>Detector: RBW-1000.000KHz VBW-3000.000KHz SWT-Auto<br/>Project: 6N0822<br/>Mode: 17<br/>18</p> | Left blank  |
| Avg. | <p>Site: 03CH07-HY<br/>Condition: AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>Detector: RBW-1000.000KHz VBW-3.000KHz SWT-Auto<br/>Project: 6N0822<br/>Mode: 17<br/>18</p>     | Left blank  |

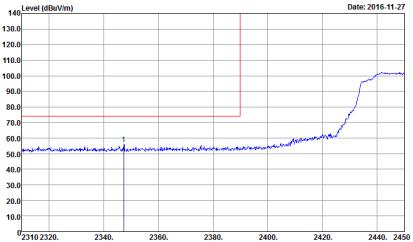
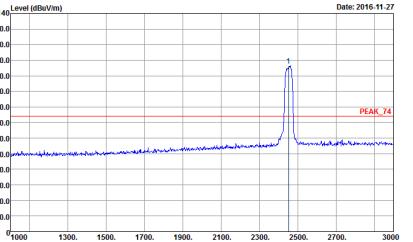
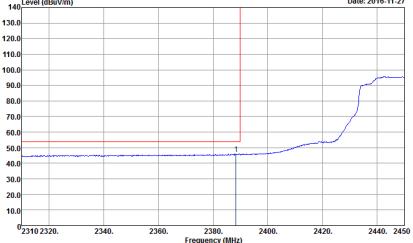
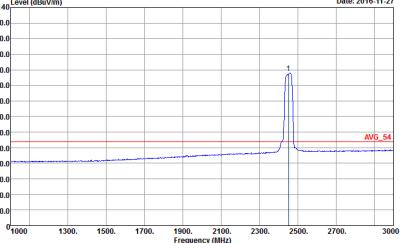


|      |   |   |
|------|---|---|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m  |   |
| ANT  | 802.11n HT40 CH09 2452MHz - L   |   |
| 1    | Horizontal  | Fundamental   |
| Peak |  <p>Site: 03CH07-HY<br/>Condition: PEAK_BE_74.3m_HF-ANT_130829_HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 18<br/>: 15.75</p> |  <p>Site: 03CH07-HY<br/>Condition: PEAK_74.3m_HF-ANT_130829_HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 18<br/>: 15.75</p> |
| Avg. |  <p>Site: 03CH07-HY<br/>Condition: AVG_BE_54.3m_HF-ANT_130829_HORIZONTAL<br/>RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 18<br/>: 15.75</p>   |  <p>Site: 03CH07-HY<br/>Condition: AVG_54.3m_HF-ANT_130829_HORIZONTAL<br/>RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 18<br/>: 15.75</p>   |



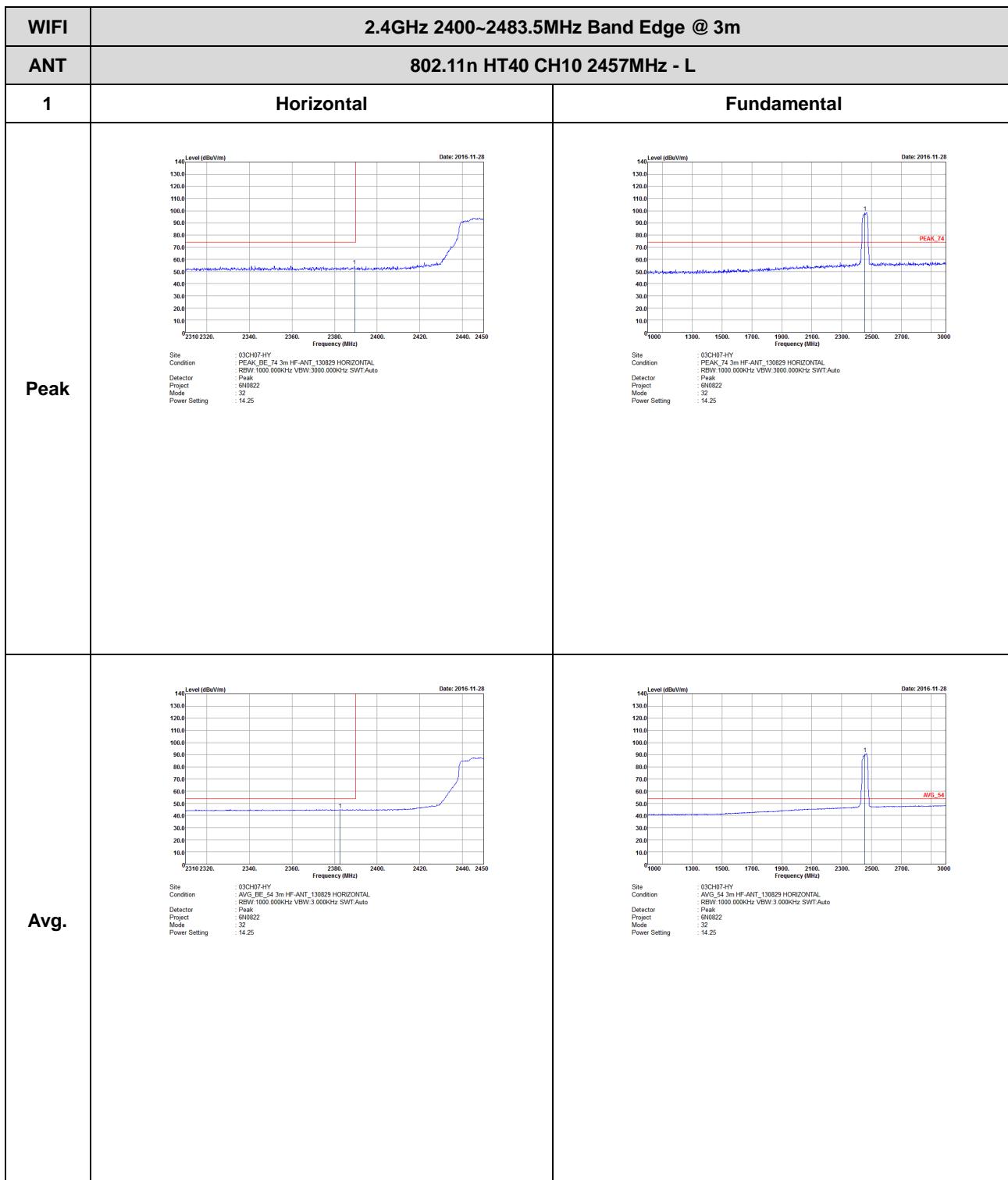
|      |  |             |
|------|--|-------------|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |             |
| ANT  | 802.11n HT40 CH09 2452MHz - R  |             |
| 1    | Horizontal   | Fundamental |
| Peak | <p>Site: 03CH07-HY<br/>Condition: PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 18<br/>15.75</p> | Left blank  |
| Avg. | <p>Site: 03CH07-HY<br/>Condition: AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 18<br/>15.75</p>  | Left blank  |



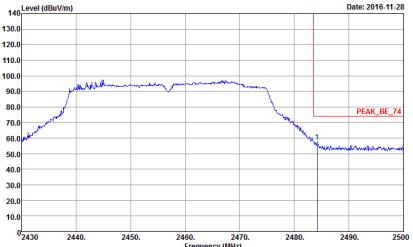
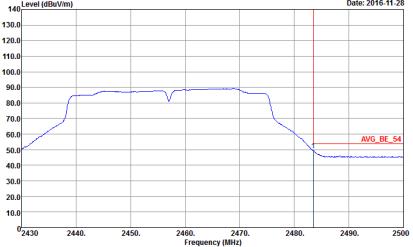
|      |  |  |
|------|--|--|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |  |
| ANT  | 802.11n HT40 CH09 2452MHz - L  |  |
| 1    | Vertical   | Fundamental  |
| Peak | <br>Site : 03CH07-HY<br>Condition : PEAK_BE_74_3m_HF-ANT_130829 VERTICAL<br>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 6N0822<br>Mode : 18<br>: 15.75 | <br>Site : 03CH07-HY<br>Condition : PEAK_74_3m_HF-ANT_130829 VERTICAL<br>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 6N0822<br>Mode : 18<br>: 15.75 |
| Avg. | <br>Site : 03CH07-HY<br>Condition : AVG_BE_54_3m_HF-ANT_130829 VERTICAL<br>RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br>Detector : Peak<br>Project : 6N0822<br>Mode : 18<br>: 15.75   | <br>Site : 03CH07-HY<br>Condition : AVG_54_3m_HF-ANT_130829 VERTICAL<br>RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br>Detector : Peak<br>Project : 6N0822<br>Mode : 18<br>: 15.75   |



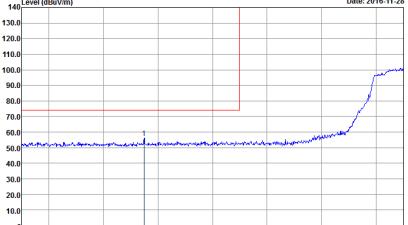
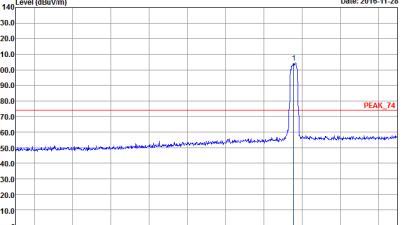
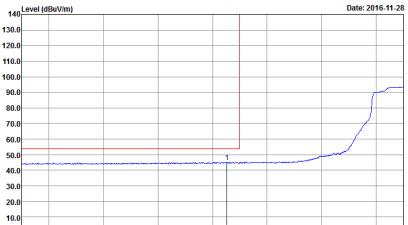
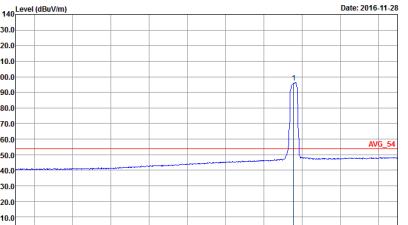
|      |  |             |
|------|--|-------------|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |             |
| ANT  | 802.11n HT40 CH09 2452MHz - R  |             |
| 1    | Vertical   | Fundamental |
| Peak | <p>Site: 03CH07-HY<br/>Condition: PEAK_BE_74, 3m HF-ANT, 130829 VERTICAL<br/>RBW:1000.000KHz VBW:3.000KHz SWF:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 18<br/>15.75</p> | Left blank  |
| Avg. | <p>Site: 03CH07-HY<br/>Condition: AVG_BE_54, 3m HF-ANT, 130829 VERTICAL<br/>RBW:1000.000KHz VBW:3.000KHz SWF:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 18<br/>15.75</p>  | Left blank  |





|      |   |             |
|------|---|-------------|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m  |             |
| ANT  | 802.11n HT40 CH10 2457MHz - R   |             |
| 1    | Horizontal  | Fundamental |
| Peak |  <p>Site: 03CH07.HY<br/>Condition: PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>Detector: RBW 1000.000KHz VBW:3.000KHz SWT:Auto<br/>Project: Peak<br/>Power Setting: 6N0822<br/>Mode: 32<br/>Power Setting: 14.25</p>  | Left blank  |
| Avg. |  <p>Site: 03CH07.HY<br/>Condition: AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>Detector: RBW 1000.000KHz VBW:3.000KHz SWT:Auto<br/>Project: Peak<br/>Power Setting: 6N0822<br/>Mode: 32<br/>Power Setting: 14.25</p> | Left blank  |

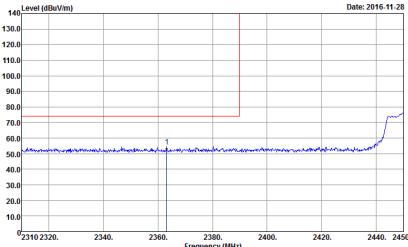
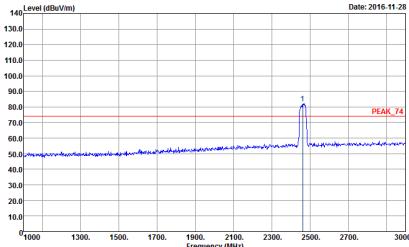
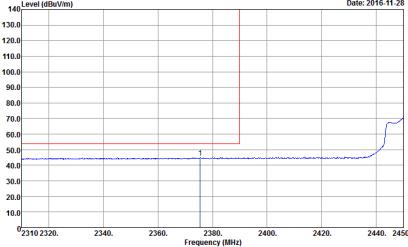
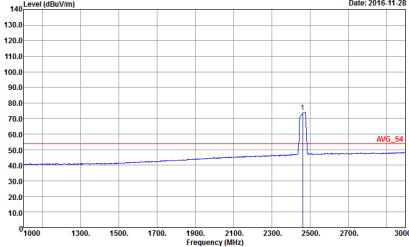


|      |  |  |
|------|--|--|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |  |
| ANT  | 802.11n HT40 CH10 2457MHz - L  |  |
| 1    | Vertical   | Fundamental  |
| Peak | <br>Site: 03CH07-HY<br>Condition: PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br>Detector: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector: Peak<br>Project: 6N0822<br>Mode: 32<br>Power Setting: 14.25 | <br>Site: 03CH07-HY<br>Condition: PEAK_74 3m HF-ANT_130829 VERTICAL<br>Detector: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector: Peak<br>Project: 6N0822<br>Mode: 32<br>Power Setting: 14.25 |
| Avg. | <br>Site: 03CH07-HY<br>Condition: AVG_BE_54 3m HF-ANT_130829 VERTICAL<br>Detector: RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br>Detector: Peak<br>Project: 6N0822<br>Mode: 32<br>Power Setting: 14.25   | <br>Site: 03CH07-HY<br>Condition: AVG_54 3m HF-ANT_130829 VERTICAL<br>Detector: RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br>Detector: Peak<br>Project: 6N0822<br>Mode: 32<br>Power Setting: 14.25   |



|      |  |             |
|------|--|-------------|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |             |
| ANT  | 802.11n HT40 CH10 2457MHz - R  |             |
| 1    | Vertical   | Fundamental |
| Peak | <p>Site: 03CH074HY<br/>Condition: PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000KHz VBW: 3000.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 32<br/>Power Setting: 14.25</p> | Left blank  |
| Avg. | <p>Site: 03CH074HY<br/>Condition: AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000KHz VBW: 3.000KHz SWT:Auto<br/>Detector: Pw<br/>Project: 6N0822<br/>Mode: 32<br/>Power Setting: 14.25</p>       | Left blank  |

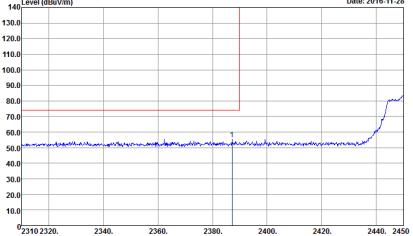
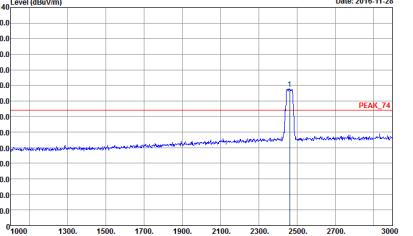
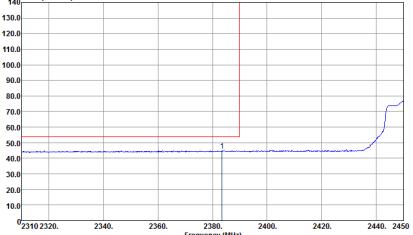
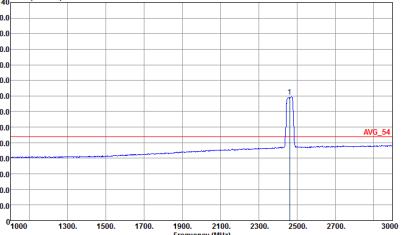


|      |  |  |
|------|--|--|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |  |
| ANT  | 802.11n HT40 CH11 2462MHz - L  |  |
| 1    | Horizontal   | Fundamental  |
| Peak |  <p>Site: 03CH07-HY<br/>Condition: PEAK_BE_74_3m_HF-ANT_130829_HORIZONTAL<br/>RBW: 1000.000KHz VBW: 3000.000KHz SW: Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 33<br/>Power Setting: -3.75</p> |  <p>Site: 03CH07-HY<br/>Condition: PEAK_74_3m_HF-ANT_130829_HORIZONTAL<br/>RBW: 1000.000KHz VBW: 3000.000KHz SW: Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 33<br/>Power Setting: -3.75</p> |
| Avg. |  <p>Site: 03CH07-HY<br/>Condition: AVG_BE_54_3m_HF-ANT_130829_HORIZONTAL<br/>RBW: 1000.000KHz VBW: 3.000KHz SW: Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 33<br/>Power Setting: -3.75</p>   |  <p>Site: 03CH07-HY<br/>Condition: AVG_54_3m_HF-ANT_130829_HORIZONTAL<br/>RBW: 1000.000KHz VBW: 3.000KHz SW: Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 33<br/>Power Setting: -3.75</p>   |



|      |   |             |
|------|---|-------------|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m  |             |
| ANT  | 802.11n HT40 CH11 2462MHz - R   |             |
| 1    | Horizontal  | Fundamental |
| Peak | <p>Site: 03CH07-HY<br/>Condition: PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>RBW: 1000.000KHz VBW: 3.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 33<br/>Power Setting: -3.75</p> | Left blank  |
| Avg. | <p>Site: 03CH07-HY<br/>Condition: AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>RBW: 1000.000KHz VBW: 3.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 33<br/>Power Setting: -3.75</p>  | Left blank  |



|      |  |  |
|------|--|--|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |  |
| ANT  | 802.11n HT40 CH11 2462MHz - L  |  |
| 1    | Vertical   | Fundamental  |
| Peak | <br>Site: 03CH07-HY<br>Condition: PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br>RBW: 1000.000KHz VBW: 3000.000KHz SWT:Auto<br>Detector: Peak<br>Project: 6N0822<br>Mode: 33<br>Power Setting: -3.75 | <br>Site: 03CH07-HY<br>Condition: PEAK_74 3m HF-ANT_130829 VERTICAL<br>RBW: 1000.000KHz VBW: 3000.000KHz SWT:Auto<br>Detector: Peak<br>Project: 6N0822<br>Mode: 33<br>Power Setting: -3.75 |
| Avg. | <br>Site: 03CH07-HY<br>Condition: AVG_BE_54 3m HF-ANT_130829 VERTICAL<br>RBW: 1000.000KHz VBW: 3.000KHz SWT:Auto<br>Detector: Peak<br>Project: 6N0822<br>Mode: 33<br>Power Setting: -3.75   | <br>Site: 03CH07-HY<br>Condition: AVG_54 3m HF-ANT_130829 VERTICAL<br>RBW: 1000.000KHz VBW: 3.000KHz SWT:Auto<br>Detector: Peak<br>Project: 6N0822<br>Mode: 33<br>Power Setting: -3.75   |

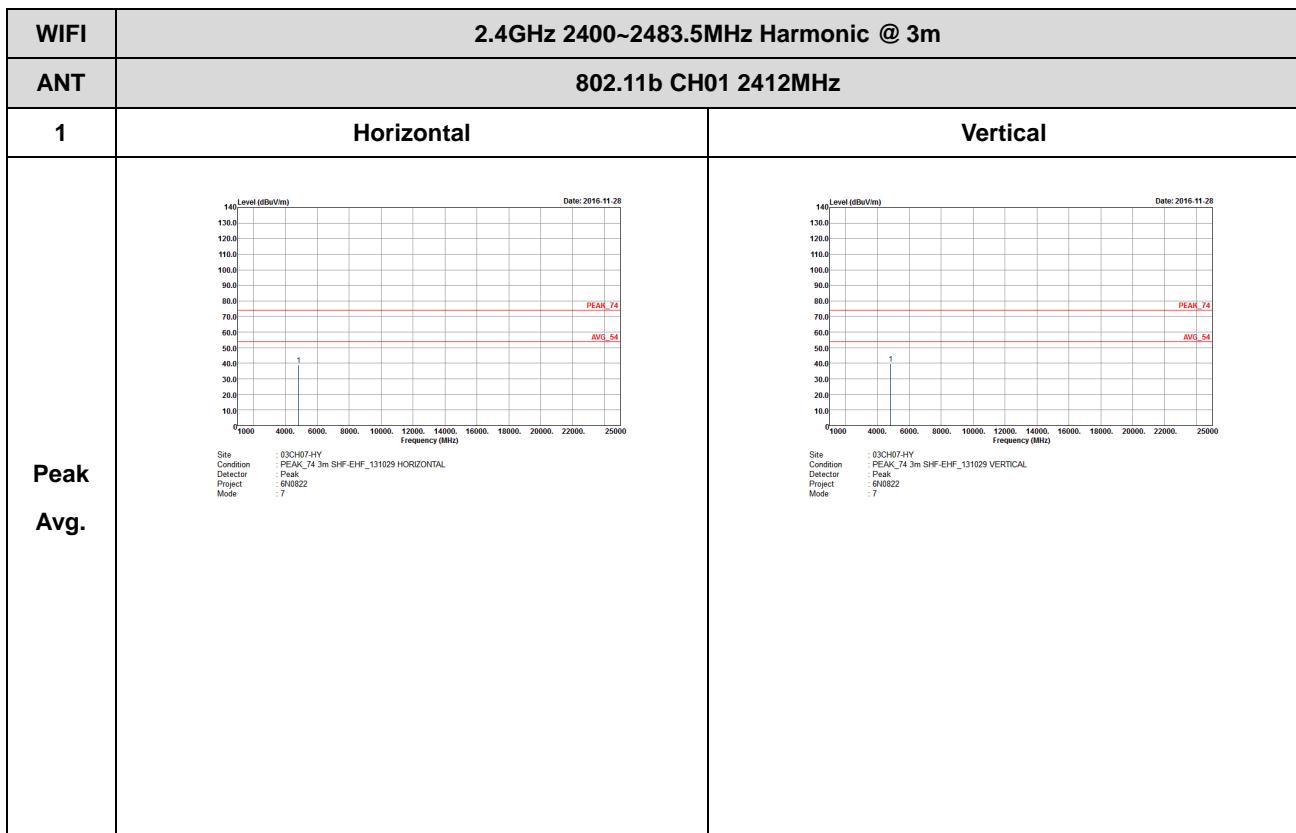


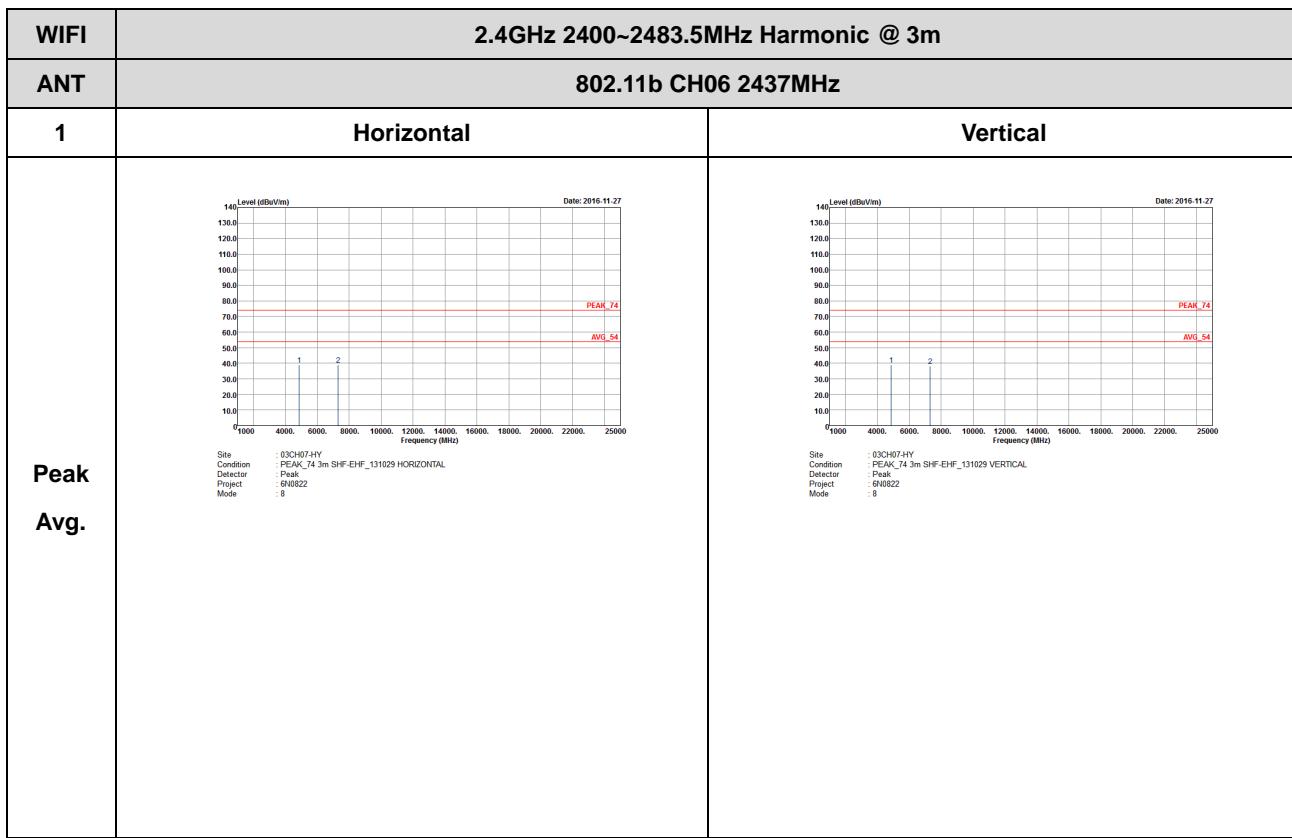
|      |  |             |
|------|--|-------------|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |             |
| ANT  | 802.11n HT40 CH11 2462MHz - R  |             |
| 1    | Vertical   | Fundamental |
| Peak | <p>Site: 03CH074HY<br/>Condition: PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>Detector: RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Project: 6N0822<br/>Mode: 33<br/>Power Setting: -3.75</p> | Left blank  |
| Avg. | <p>Site: 03CH074HY<br/>Condition: AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>Detector: RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Project: 6N0822<br/>Mode: 33<br/>Power Setting: -3.75</p>  | Left blank  |

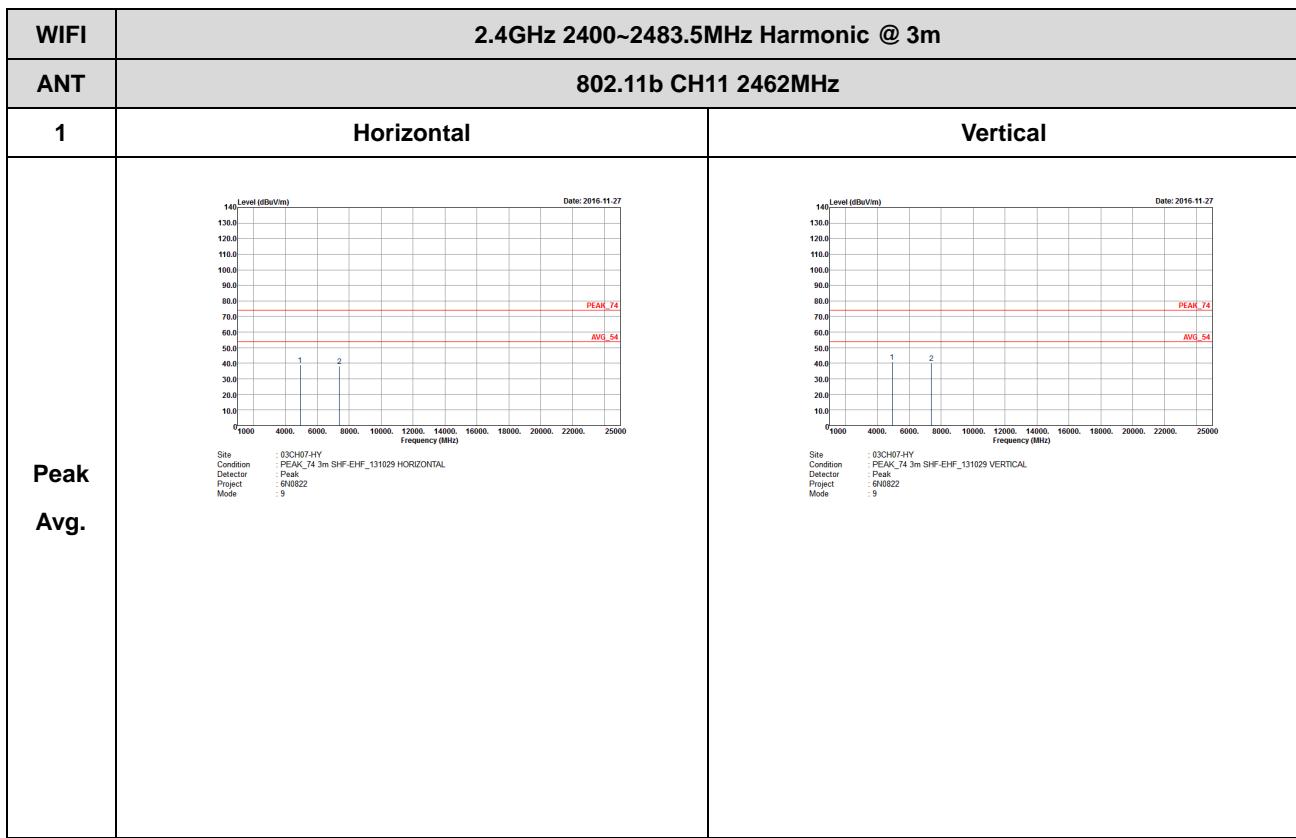


2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

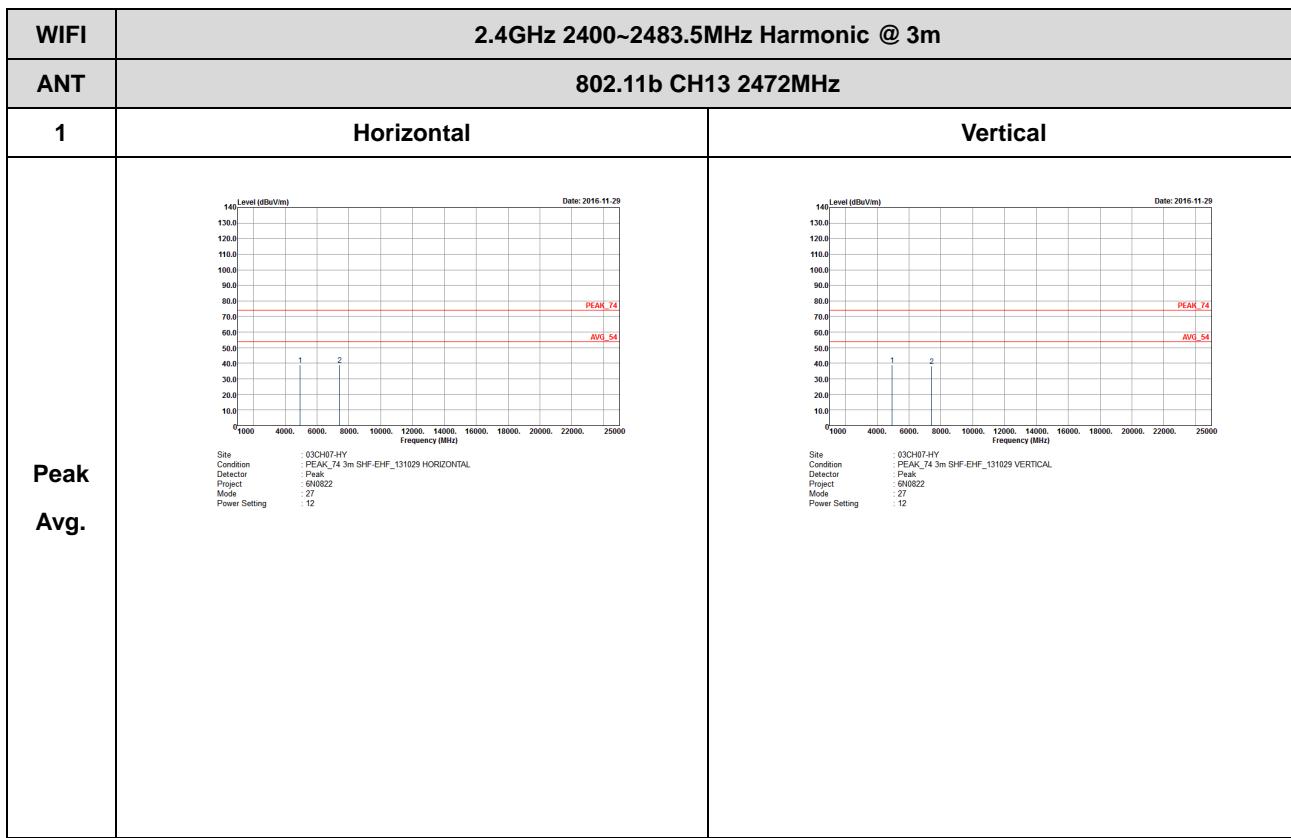








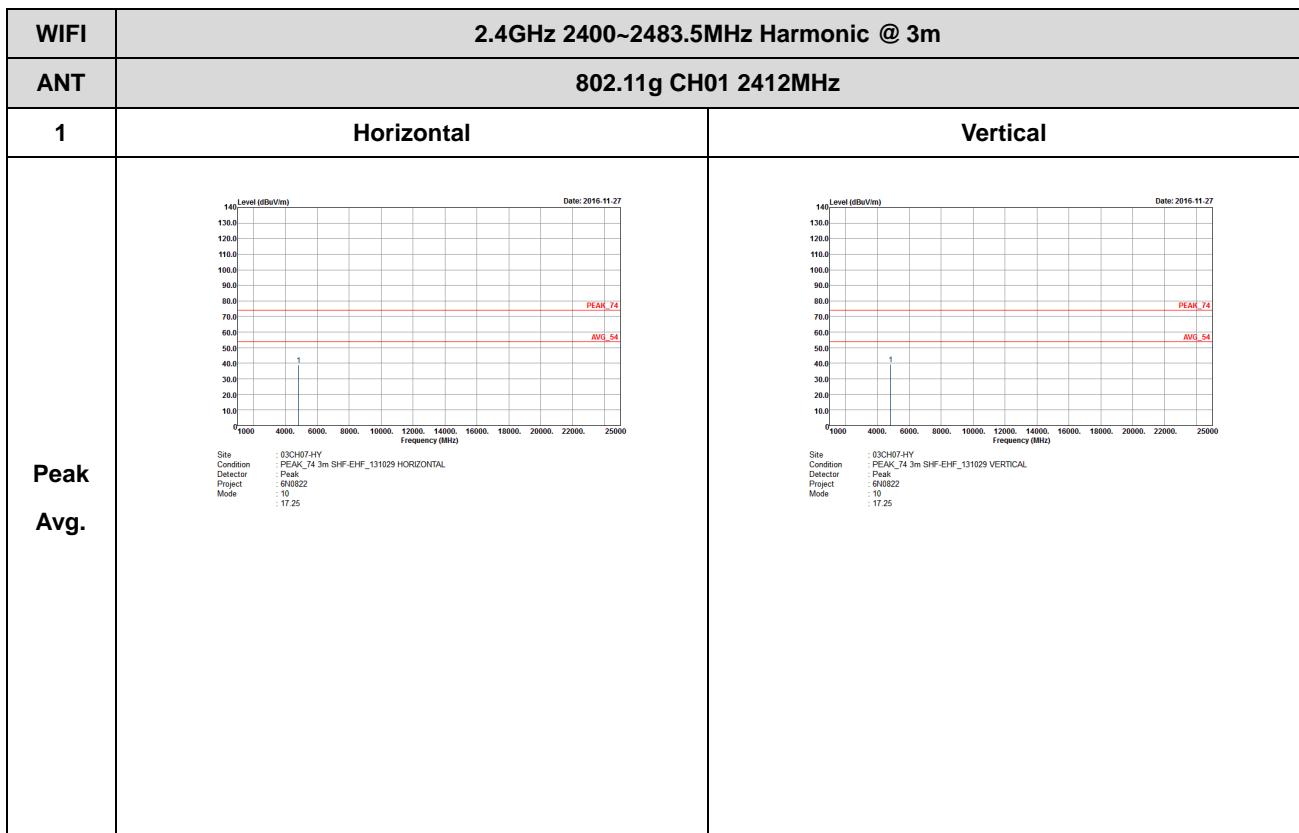
|              |   |   |
|--------------|---|---|
| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m   |   |
| ANT          | 802.11b CH12 2467MHz  |   |
| 1            | Horizontal  | Vertical  |
| Peak<br>Avg. | <br>Site: 030407-HY<br>Condition: PEAK_74 3m SHF-EHF_131029 HORIZONTAL.<br>Detector: Peak<br>Project: 6N0822<br>Mode: 26<br>Power Setting: 17 | <br>Site: 030407-HY<br>Condition: PEAK_74 3m SHF-EHF_131029 VERTICAL.<br>Detector: Peak<br>Project: 6N0822<br>Mode: 26<br>Power Setting: 17 |

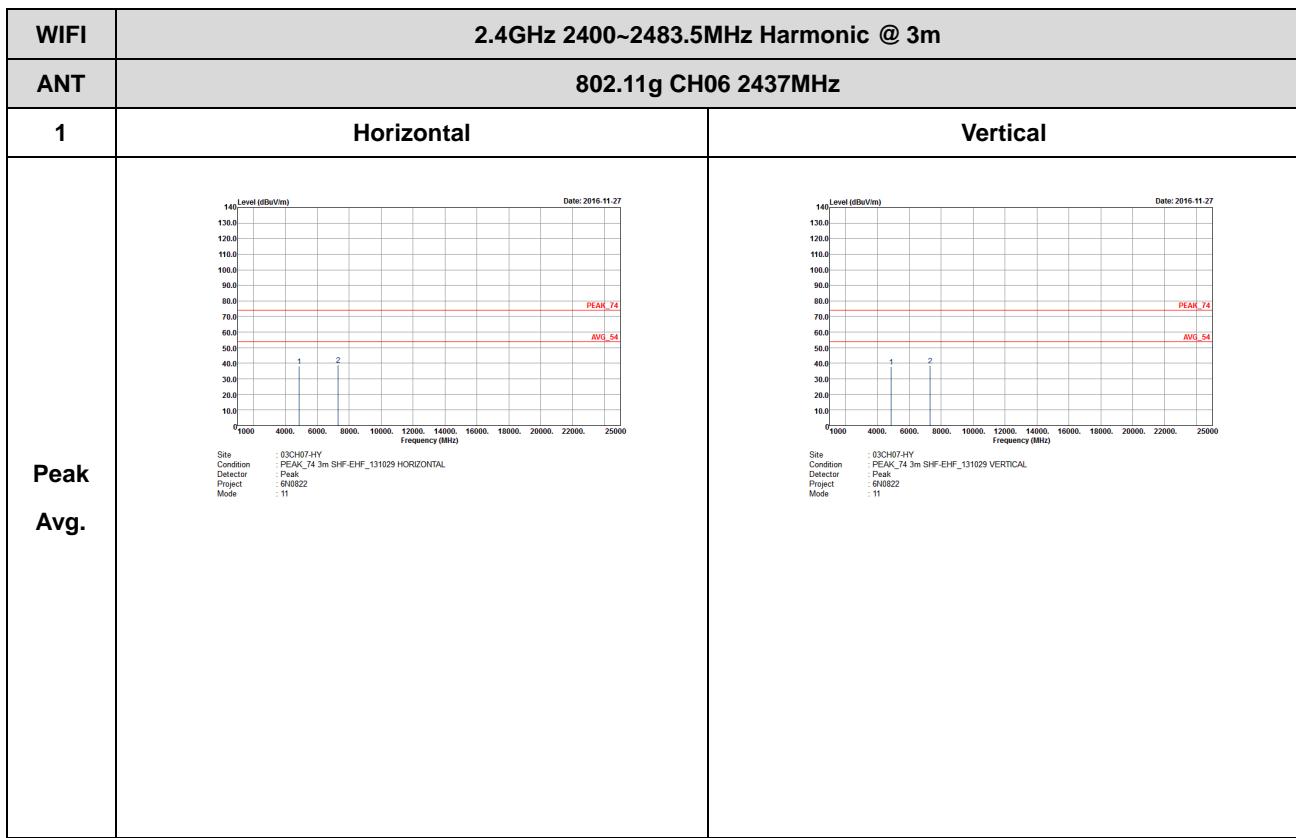


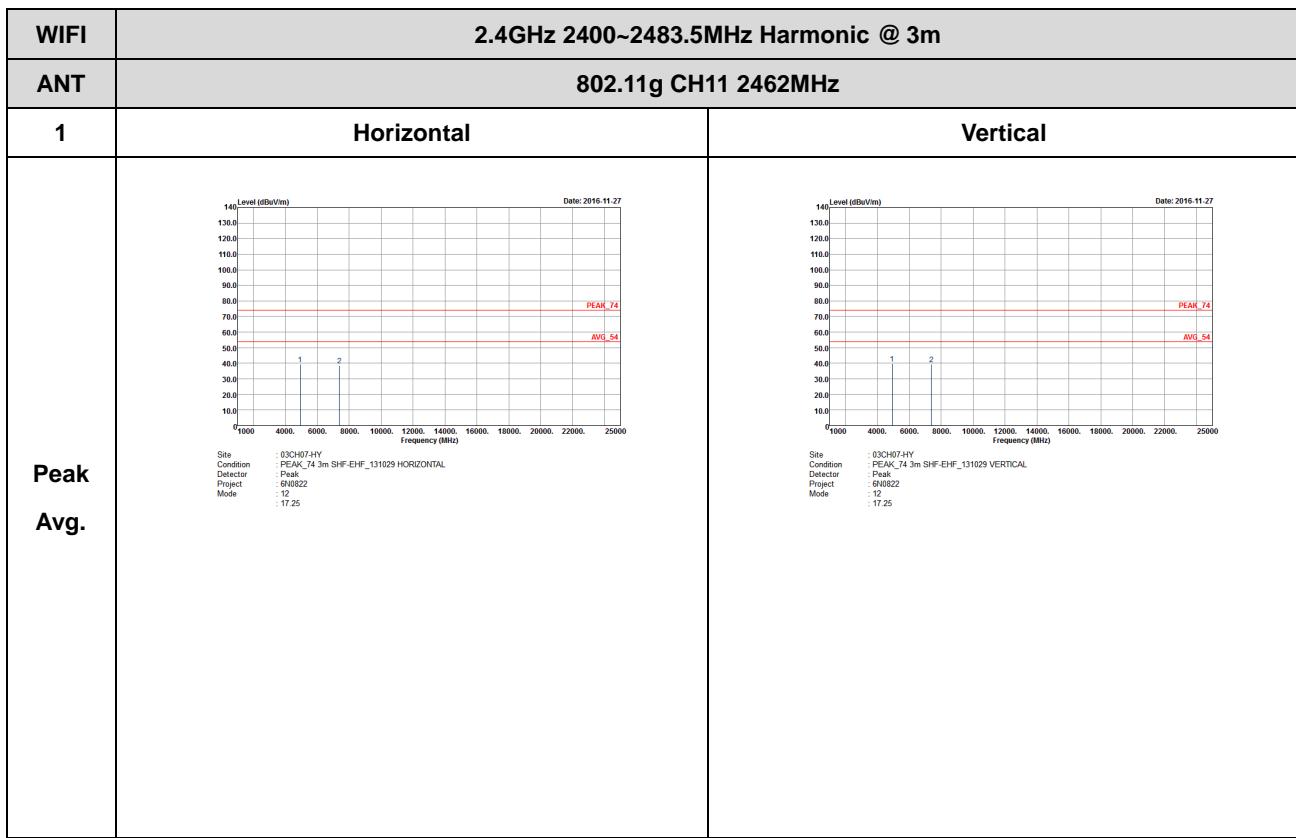


2.4GHz 2400~2483.5MHz

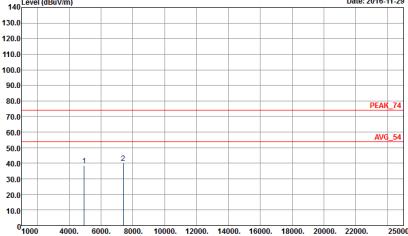
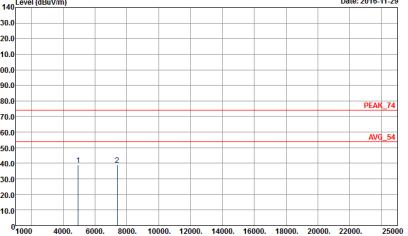
WIFI 802.11g (Harmonic @ 3m)

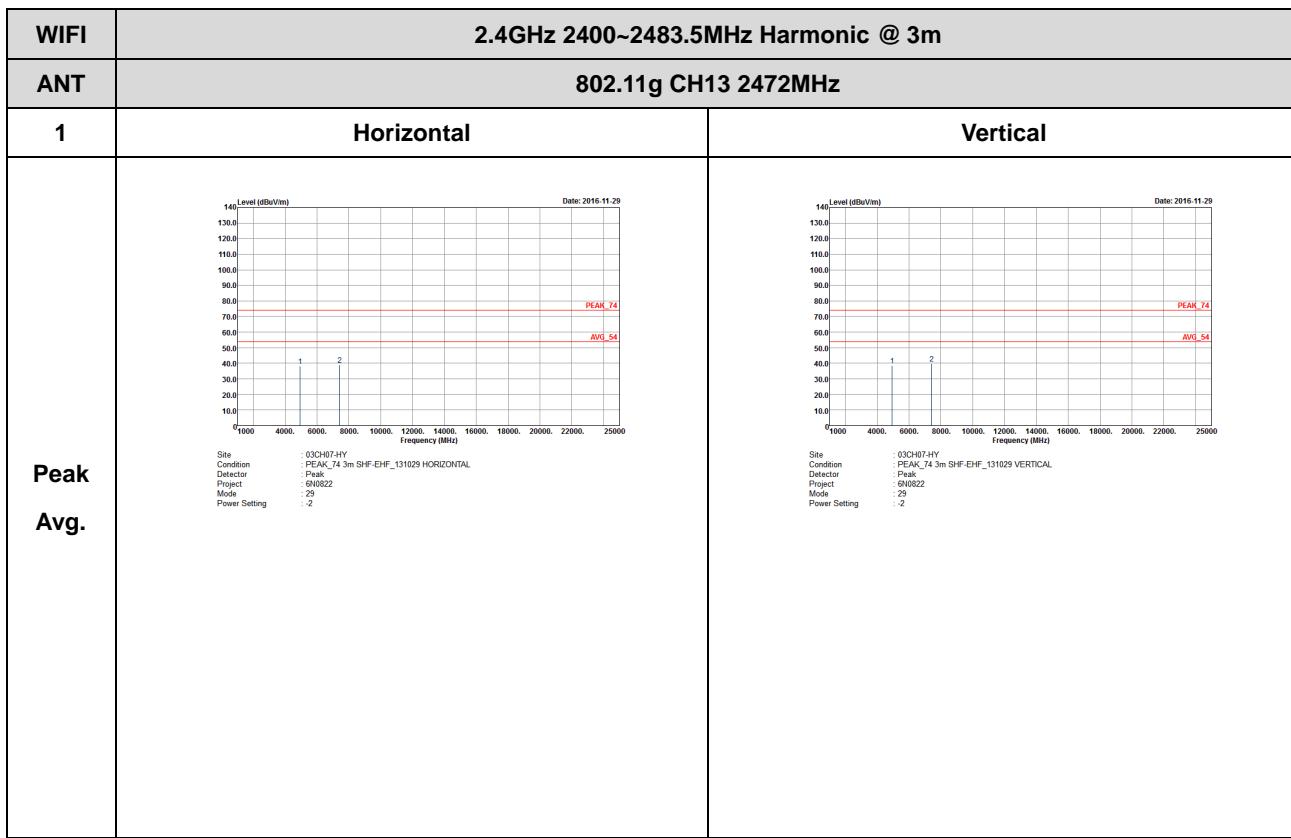








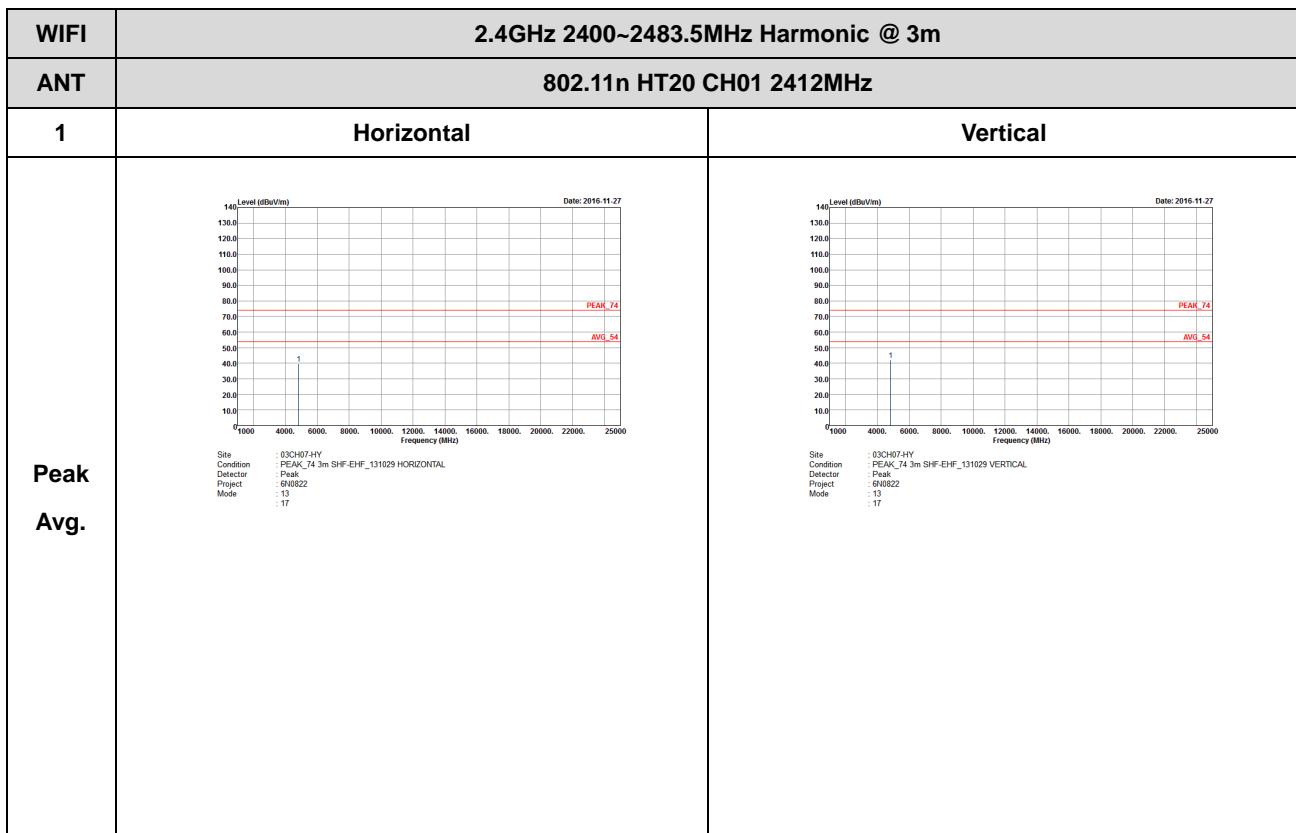
|              |   |  |
|--------------|---|--|
| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m   |  |
| ANT          | 802.11g CH12 2467MHz  |  |
| 1            | Horizontal  | Vertical   |
| Peak<br>Avg. |  <p>Site: 030407-HY<br/>Condition: PEAK_74 3m SHF-EHF_131029 HORIZONTAL.<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 28<br/>Power Setting: 13</p> |  <p>Site: 030407-HY<br/>Condition: PEAK_74 3m SHF-EHF_131029 VERTICAL.<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 28<br/>Power Setting: 13</p> |

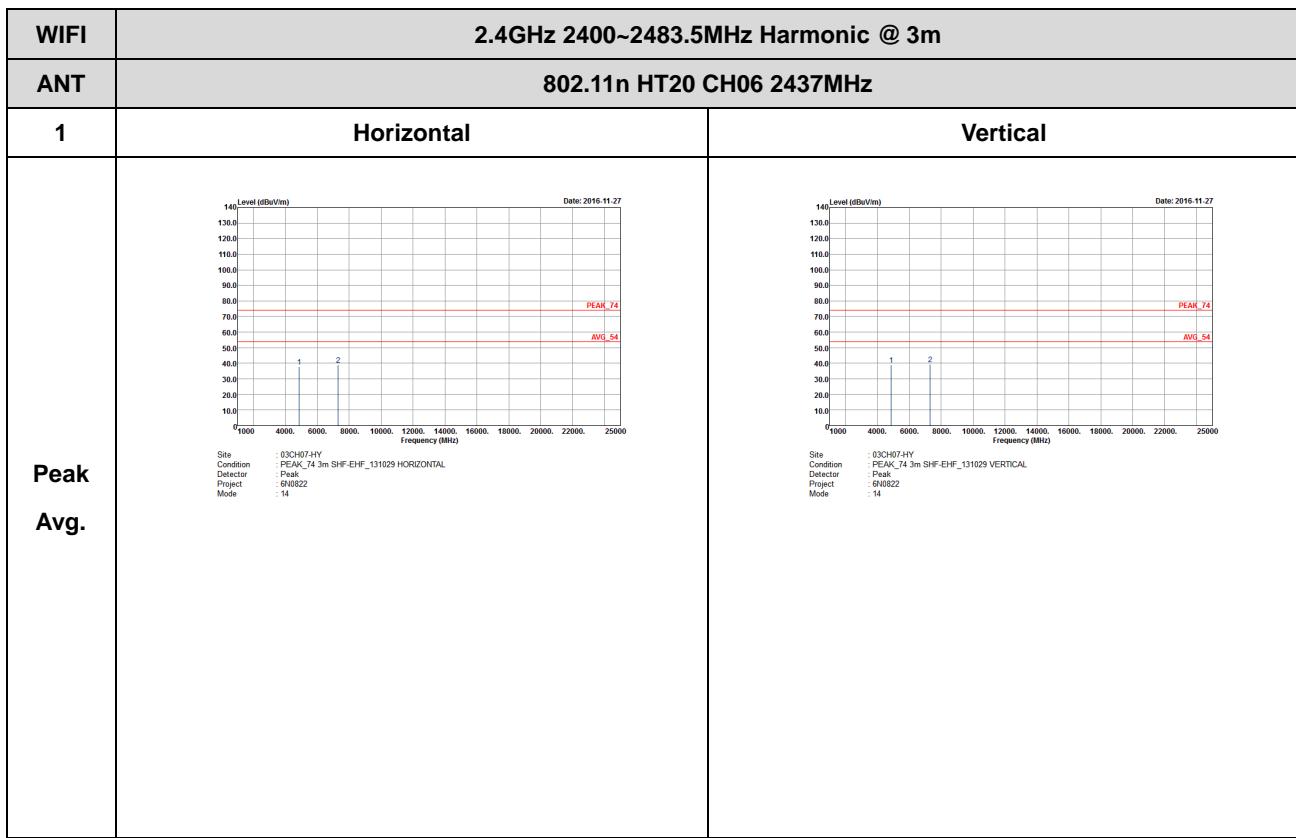


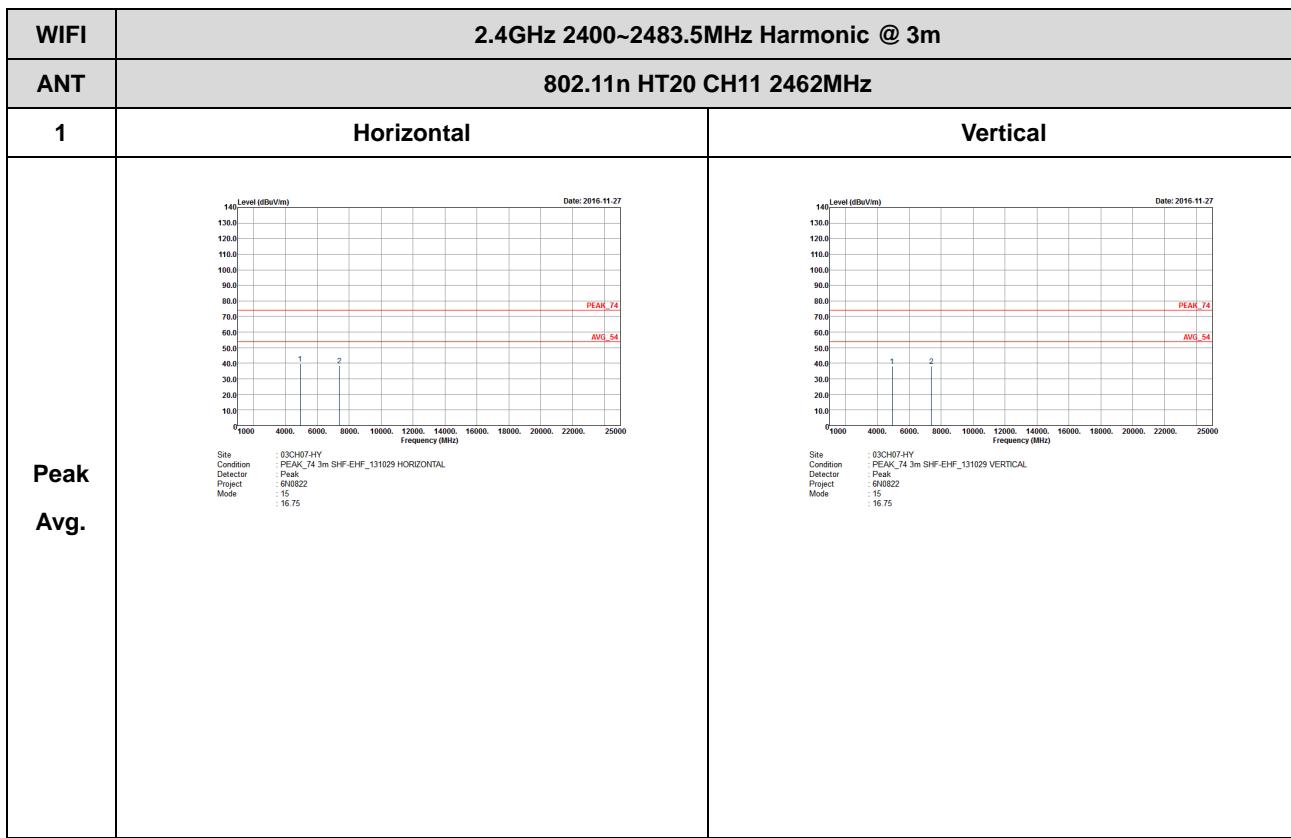


2.4GHz 2400~2483.5MHz

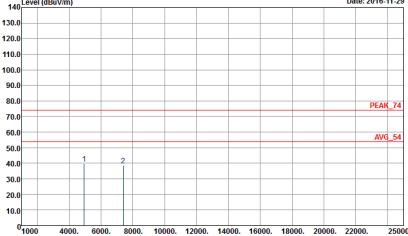
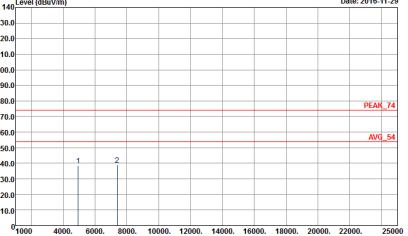
WIFI 802.11n HT20 (Harmonic @ 3m)

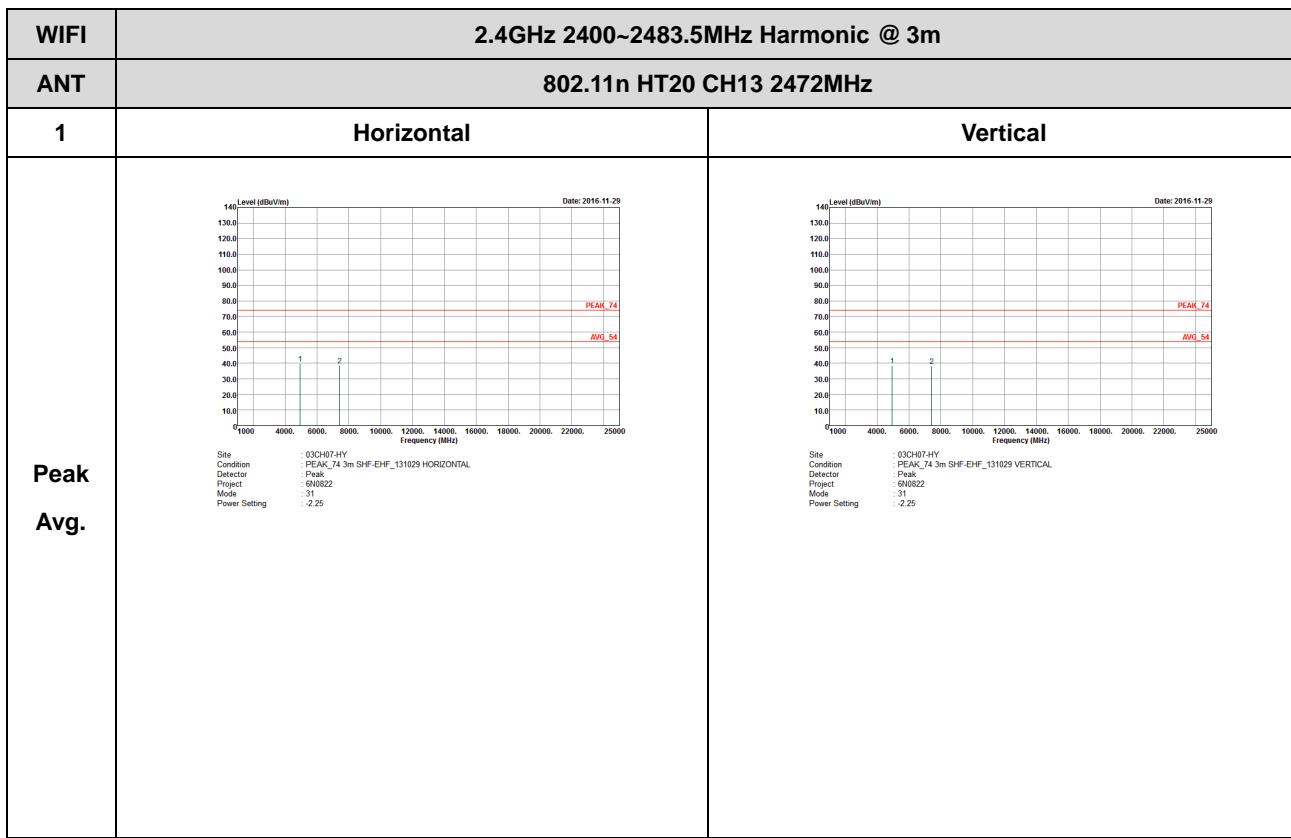








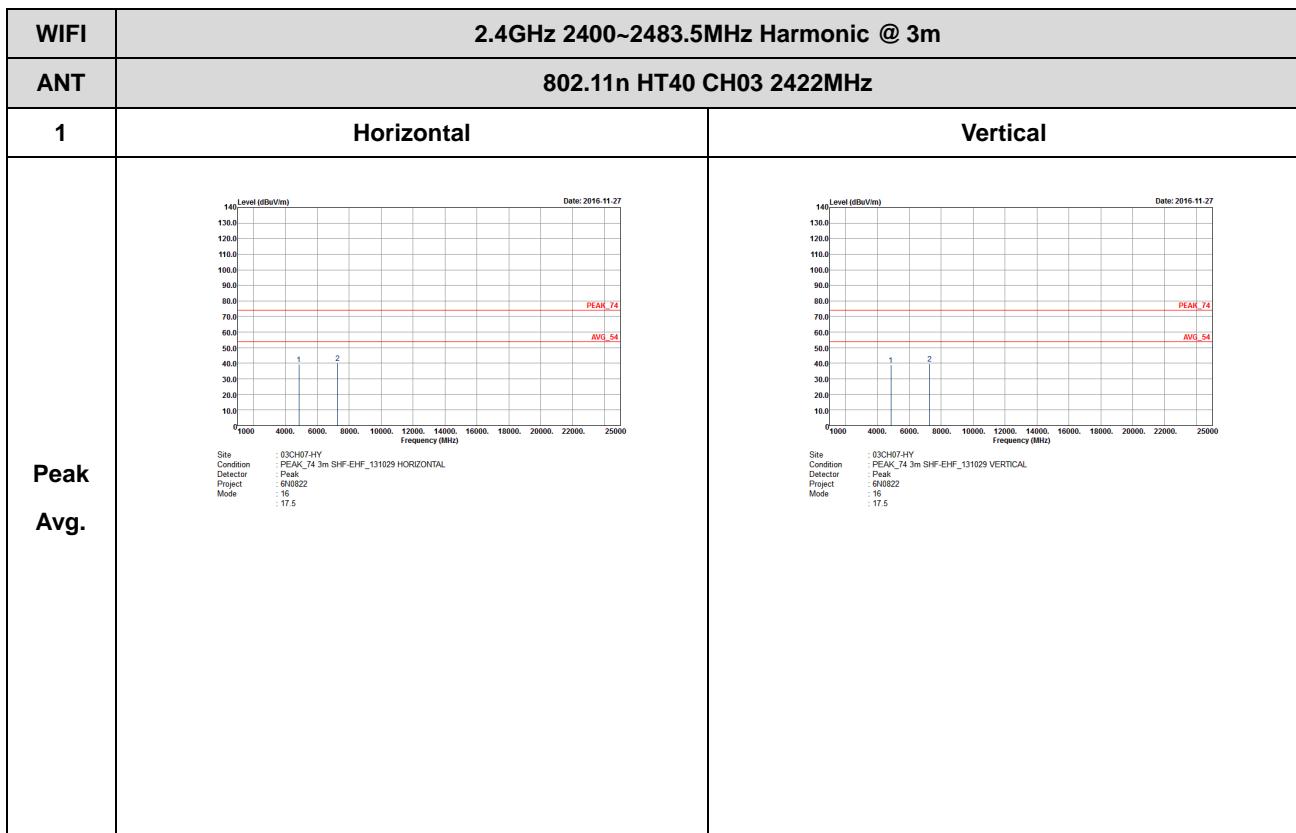
|              |   |  |
|--------------|---|--|
| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m   |  |
| ANT          | 802.11n HT20 CH12 2467MHz   |  |
| 1            | Horizontal  | Vertical   |
| Peak<br>Avg. | <br><small>Site: 030407-HY<br/>Condition: PEAK_74 3m SHF-EHF_131029 HORIZONTAL.<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 30<br/>Power Setting: -13</small> | <br><small>Site: 030407-HY<br/>Condition: PEAK_74 3m SHF-EHF_131029 VERTICAL.<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 30<br/>Power Setting: -13</small> |

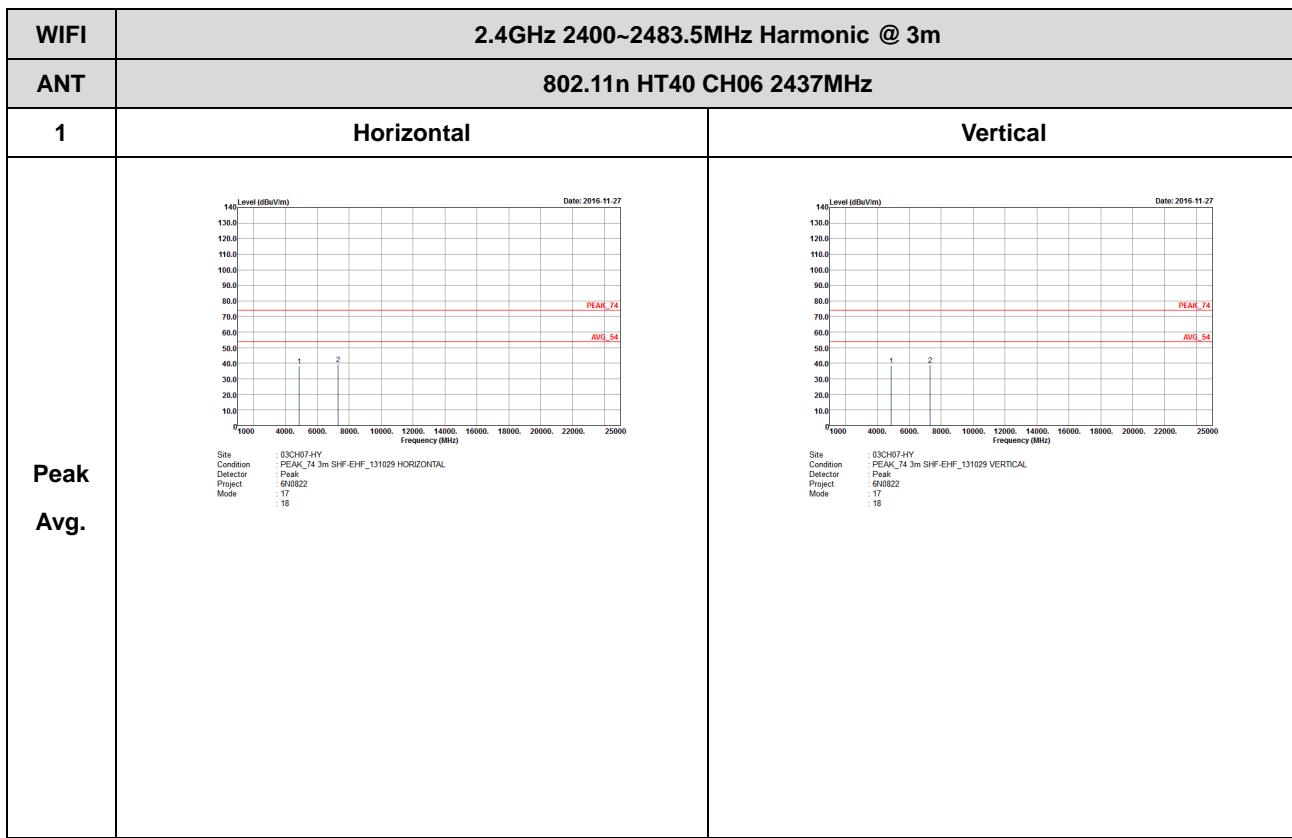


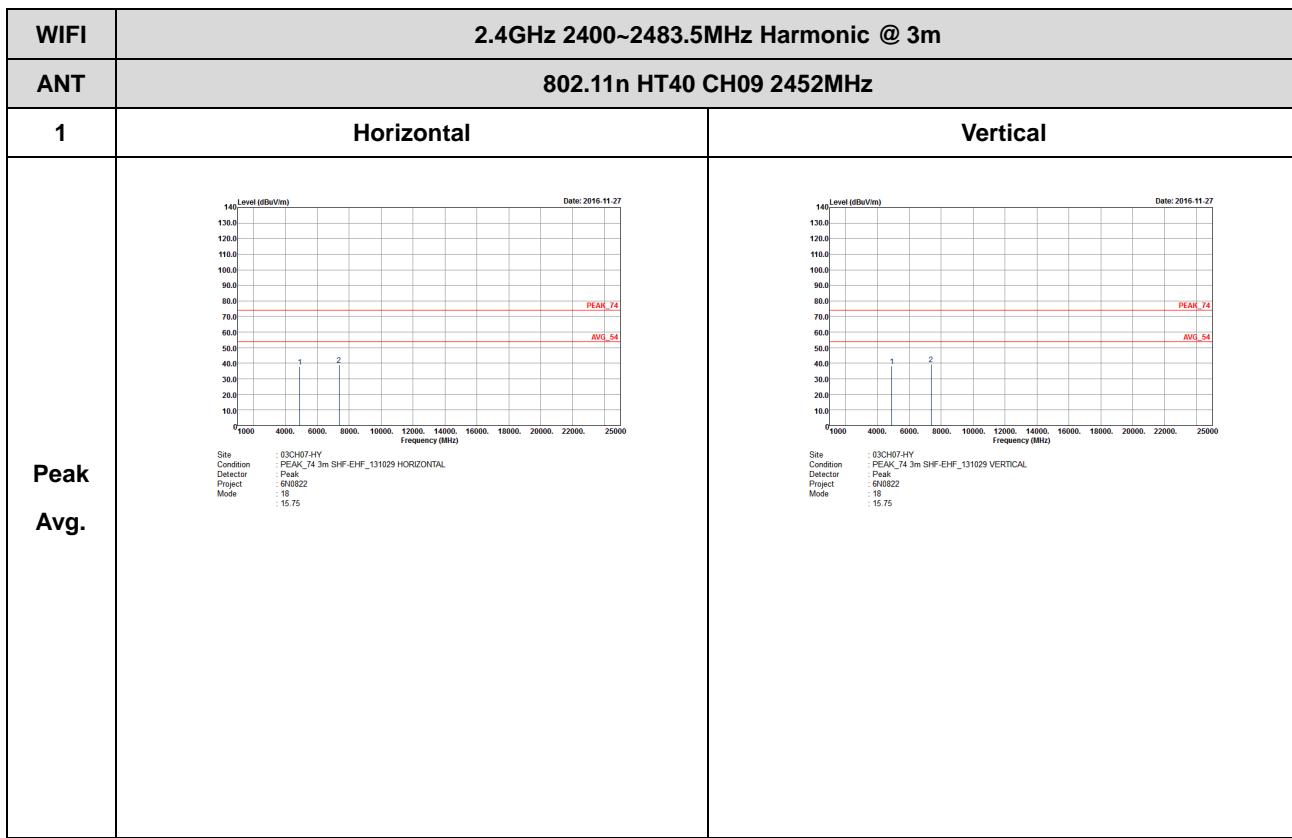


2.4GHz 2400~2483.5MHz

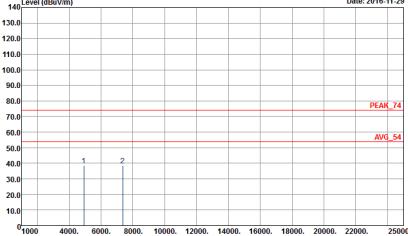
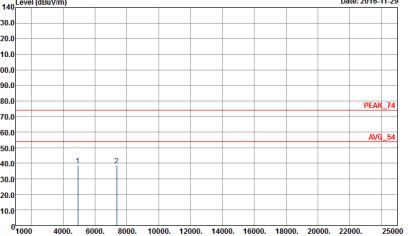
WIFI 802.11n HT40 (Harmonic @ 3m)

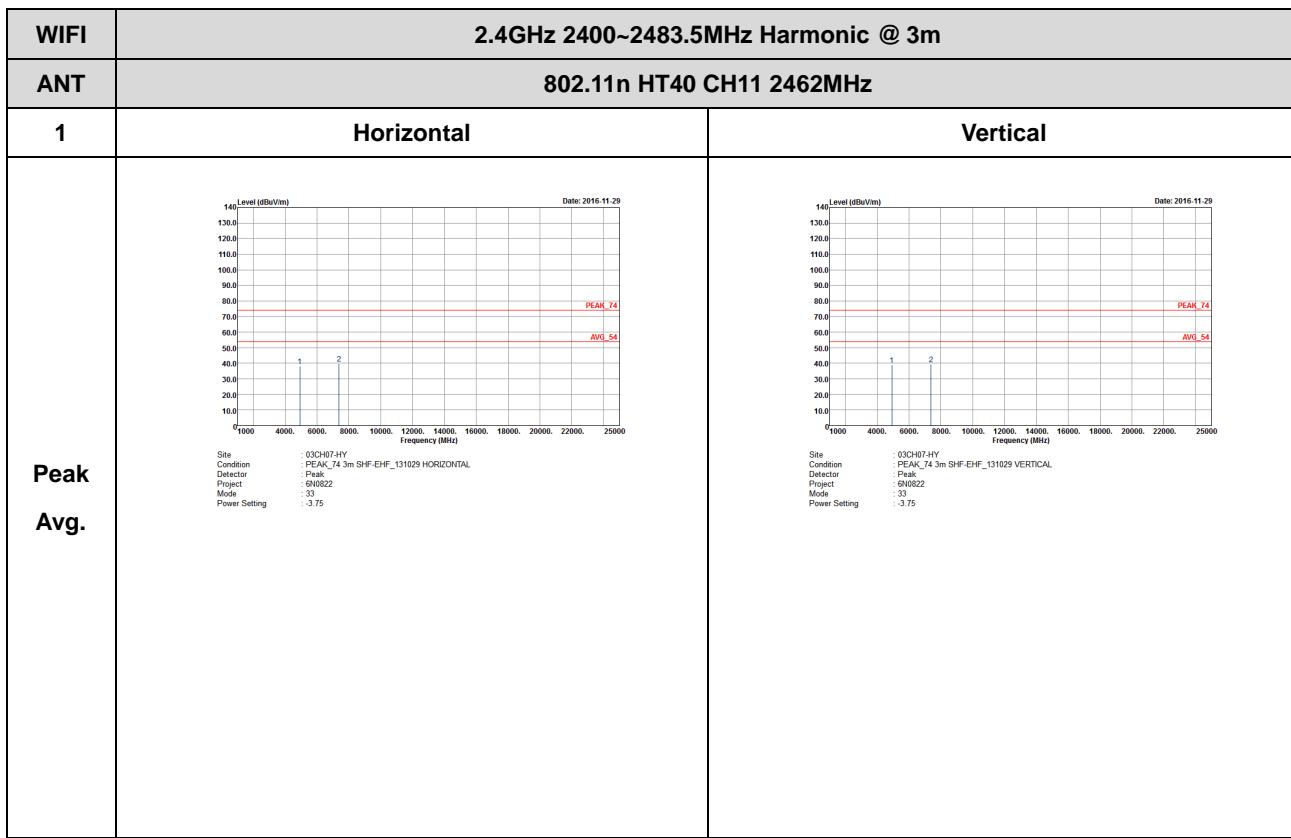








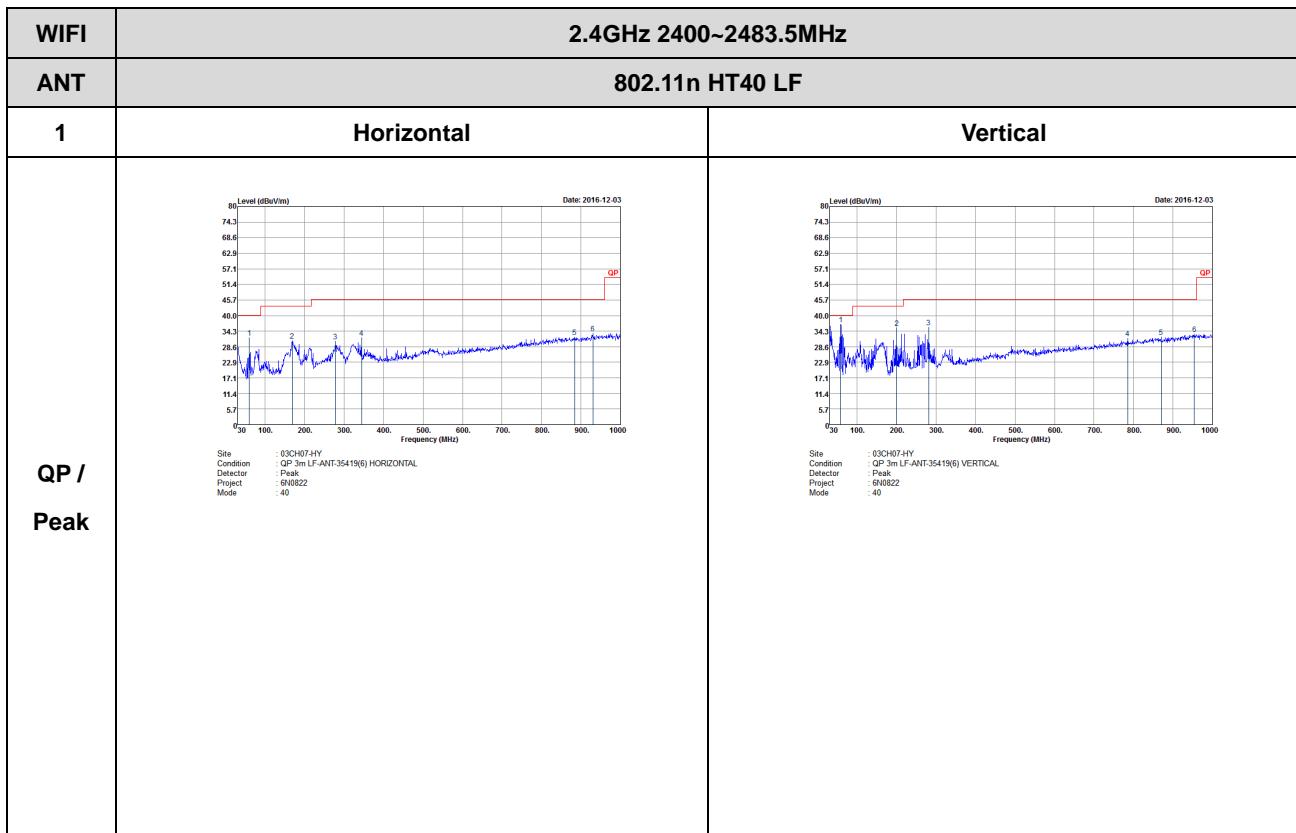
|              |   |  |
|--------------|---|--|
| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m   |  |
| ANT          | 802.11n HT40 CH10 2457MHz   |  |
| 1            | Horizontal  | Vertical   |
| Peak<br>Avg. | <br>Site: 030407-HY<br>Condition: PEAK_74 3m SHF-EHF_131029 HORIZONTAL.<br>Detector: Peak<br>Project: 6N0822<br>Mode: 32<br>Power Setting: 14.25 | <br>Site: 030407-HY<br>Condition: PEAK_74 3m SHF-EHF_131029 VERTICAL.<br>Detector: Peak<br>Project: 6N0822<br>Mode: 32<br>Power Setting: 14.25 |





## Emission below 1GHz

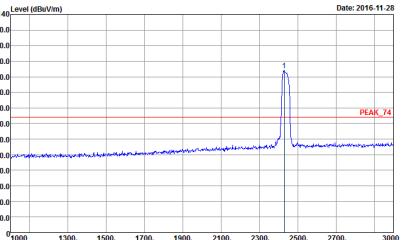
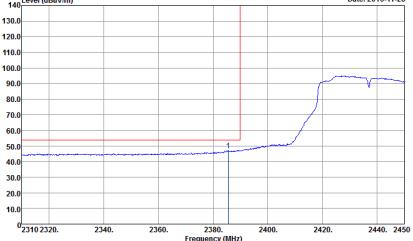
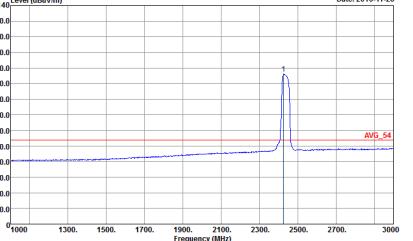
## 2.4GHz WIFI 802.11n HT40 (LF)





## 2.4GHz 2400~2483.5MHz

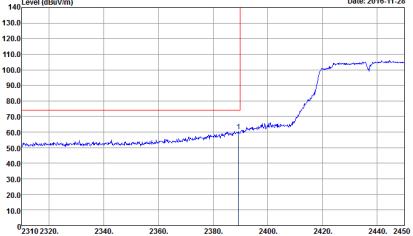
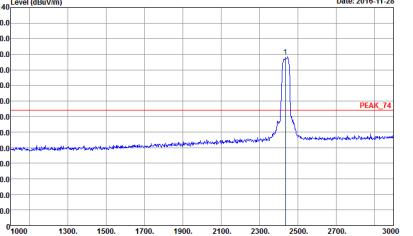
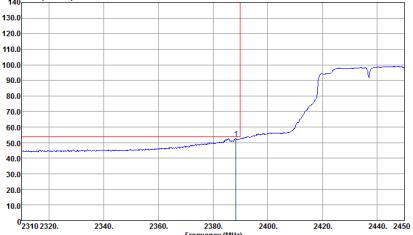
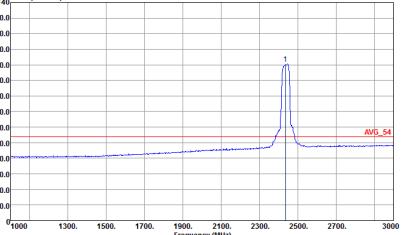
## WIFI 802.11n HT40 (Band Edge @ 3m)

|             |  |  |
|-------------|--|--|
| <b>WIFI</b> | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |  |
| <b>ANT</b>  | 802.11n HT40 CH06 2437MHz - L  |  |
| 2           | <b>Horizontal</b>  | <b>Fundamental</b>   |
| Peak        |  <p>Site Condition : 03CH07-HY<br/>PEAK_BE_74_3m_HF-ANT_130829_HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 19<br/>Power Setting : 16.75</p> |  <p>Site Condition : 03CH07-HY<br/>PEAK_74_3m_HF-ANT_130829_HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 19<br/>Power Setting : 16.75</p> |
| Avg.        |  <p>Site Condition : 03CH07-HY<br/>AVG_BE_54_3m_HF-ANT_130829_HORIZONTAL<br/>RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 19<br/>Power Setting : 16.75</p>   |  <p>Site Condition : 03CH07-HY<br/>AVG_54_3m_HF-ANT_130829_HORIZONTAL<br/>RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 19<br/>Power Setting : 16.75</p>   |



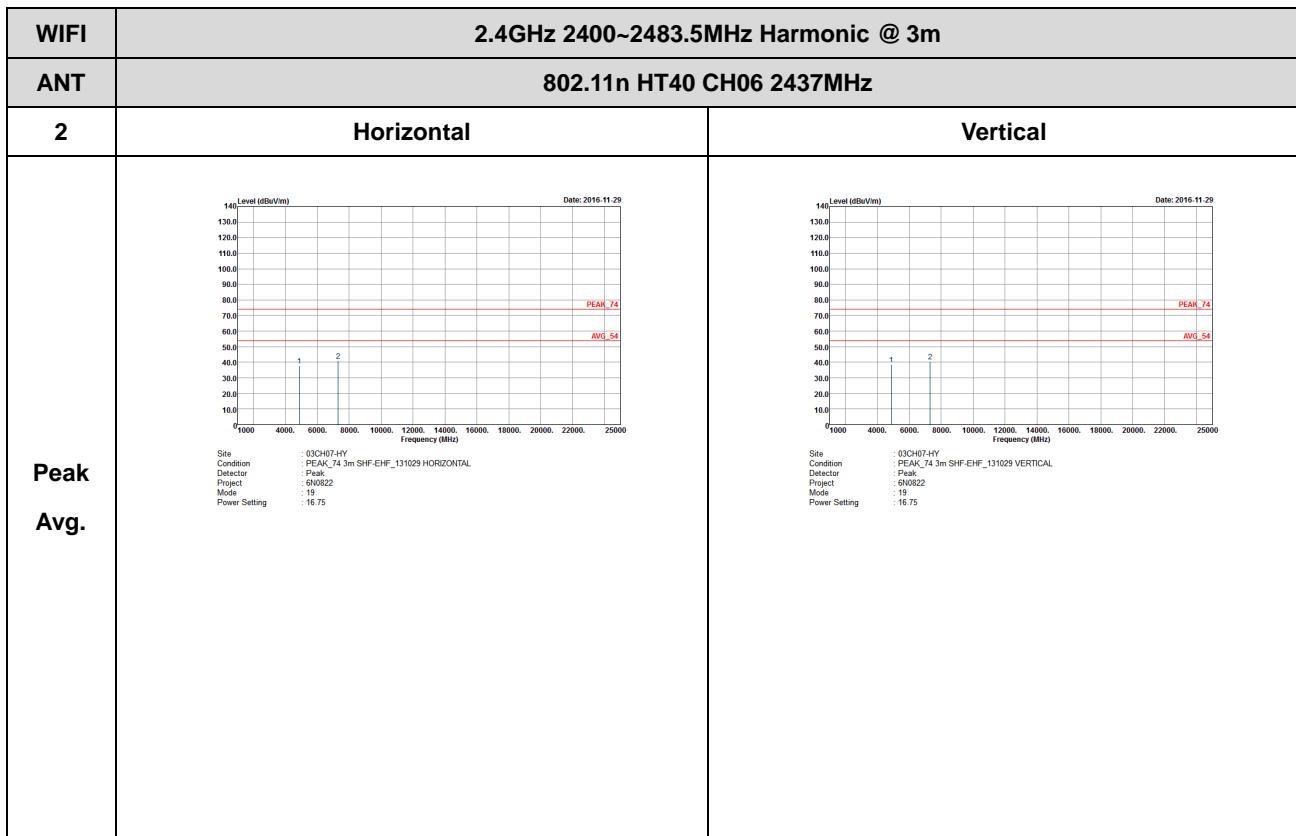
|      |  |             |
|------|--|-------------|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |             |
| ANT  | 802.11n HT40 CH06 2437MHz - R  |             |
| 2    | Horizontal   | Fundamental |
| Peak | <p>Site: 03CH07-HY<br/>Condition: PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VSWR:3.000kHz SWR:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 19<br/>Power Setting: 16.75</p> | Left blank  |
| Avg. | <p>Site: 03CH07-HY<br/>Condition: AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VSWR:3.000kHz SWR:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 19<br/>Power Setting: 16.75</p>  | Left blank  |



|      |  |   |
|------|--|---|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |   |
| ANT  | 802.11n HT40 CH06 2437MHz - L  |   |
| 2    | Vertical   | Fundamental   |
| Peak | <br>Site: 03CH074HY<br>Condition: PEAK_BE_54 3m HF-ANT_130829 VERTICAL<br>RBW: 1000.000KHz VBW: 3.000KHz SWF:Auto<br>Detector: Peak<br>Project: 6N0822<br>Mode: 19<br>Power Setting: 16.75  | <br>Site: 03CH074HY<br>Condition: PEAK_74 3m HF-ANT_130829 VERTICAL<br>RBW: 1000.000KHz VBW: 3.000.000KHz SWF:Auto<br>Detector: Peak<br>Project: 6N0822<br>Mode: 19<br>Power Setting: 16.75 |
| Avg. | <br>Site: 03CH074HY<br>Condition: AVG_BE_54 3m HF-ANT_130829 VERTICAL<br>RBW: 1000.000KHz VBW: 3.000KHz SWF:Auto<br>Detector: Peak<br>Project: 6N0822<br>Mode: 19<br>Power Setting: 16.75 | <br>Site: 03CH074HY<br>Condition: AVG_54 3m HF-ANT_130829 VERTICAL<br>RBW: 1000.000KHz VBW: 3.000KHz SWF:Auto<br>Detector: Peak<br>Project: 6N0822<br>Mode: 19<br>Power Setting: 16.75    |



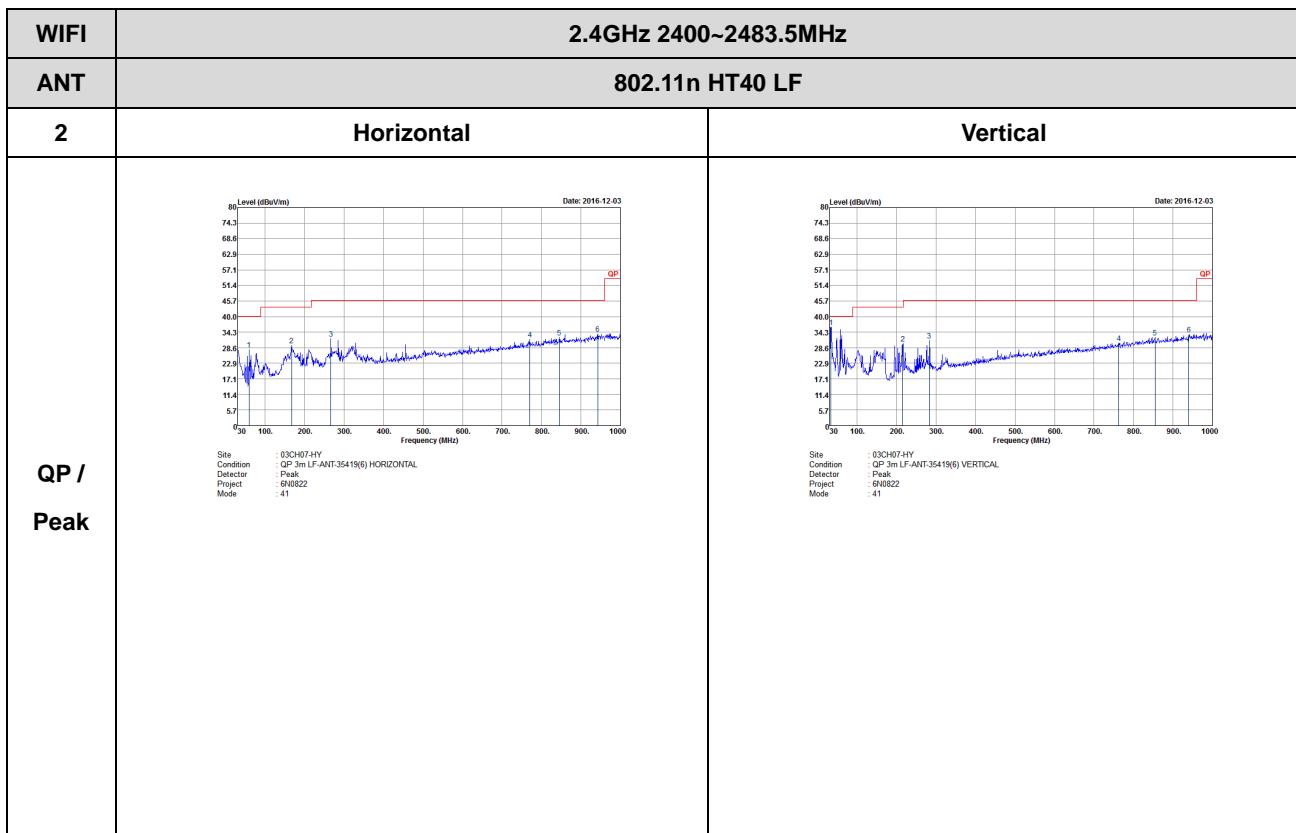
|      |  |             |
|------|--|-------------|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |             |
| ANT  | 802.11n HT40 CH06 2437MHz - R  |             |
| 2    | Horizontal   | Fundamental |
| Peak | <p>Site: 03CH074HY<br/>Condition: PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000KHz VSWR: 3.000GHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 19<br/>Power Setting: 16.75</p> | Left blank  |
| Avg. | <p>Site: 03CH074HY<br/>Condition: AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000KHz VSWR: 3.000GHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 19<br/>Power Setting: 16.75</p>  | Left blank  |





## Emission below 1GHz

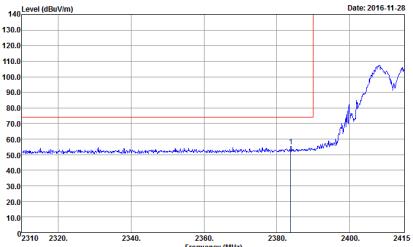
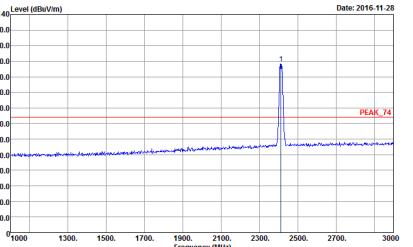
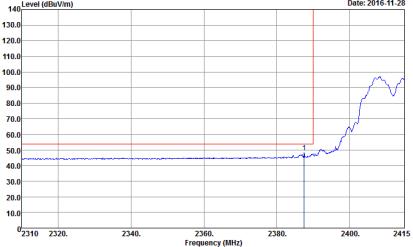
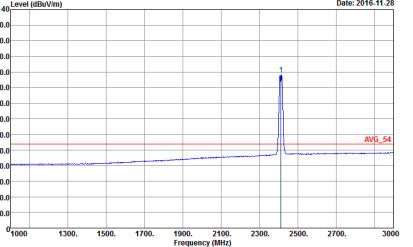
## 2.4GHz WIFI 802.11n HT40 (LF)



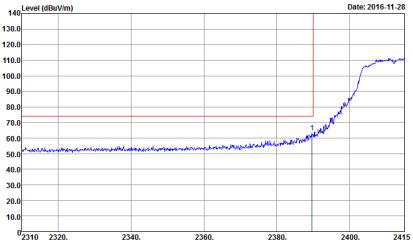
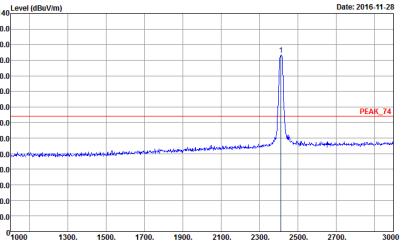
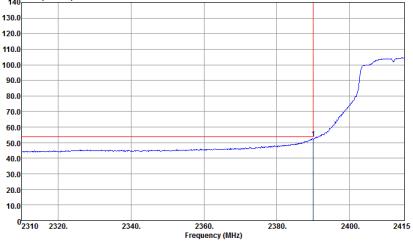
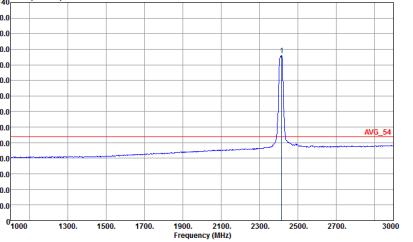


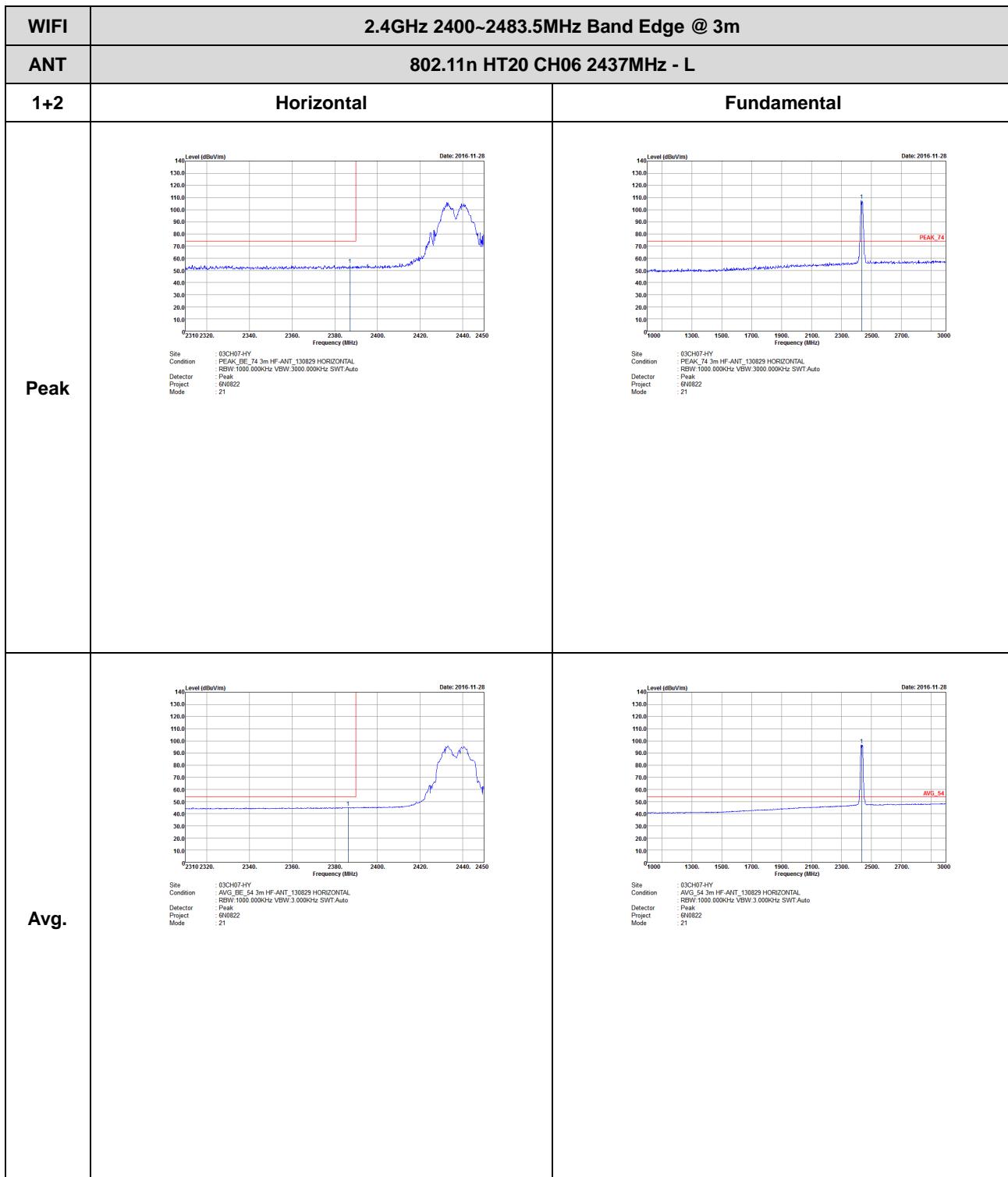
## 2.4GHz 2400~2483.5MHz

## WIFI 802.11n HT20 (Band Edge @ 3m)

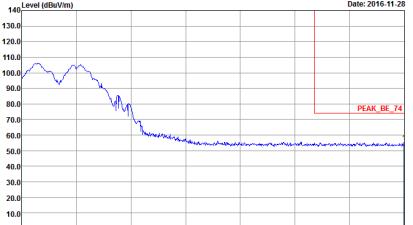
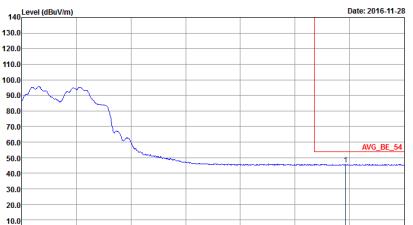
|      |  |  |
|------|--|--|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |  |
| ANT  | 802.11n HT20 CH01 2412MHz  |  |
| 1+2  | Horizontal   | Fundamental  |
| Peak | <br>Site: 03CH07-HY<br>Condition: PEAK_BE_74_3m_HF-ANT_130829_HORIZONTAL<br>RBW: 1000.000kHz VBW: 3000.000kHz SWT:Auto<br>Detector: Peak<br>Project: 6N0822<br>Mode: 20 | <br>Site: 03CH07-HY<br>Condition: PEAK_74_3m_HF-ANT_130829_HORIZONTAL<br>RBW: 1000.000kHz VBW: 3000.000kHz SWT:Auto<br>Detector: Peak<br>Project: 6N0822<br>Mode: 20 |
| Avg. | <br>Site: 03CH07-HY<br>Condition: AVG_BE_54_3m_HF-ANT_130829_HORIZONTAL<br>RBW: 1000.000kHz VBW: 3.000kHz SWT:Auto<br>Detector: Peak<br>Project: 6N0822<br>Mode: 20   | <br>Site: 03CH07-HY<br>Condition: AVG_54_3m_HF-ANT_130829_HORIZONTAL<br>RBW: 1000.000kHz VBW: 3.000kHz SWT:Auto<br>Detector: Peak<br>Project: 6N0822<br>Mode: 20   |



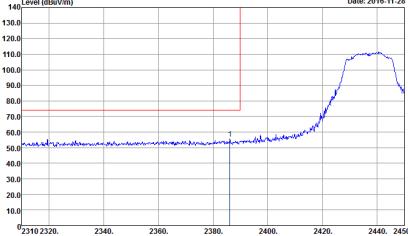
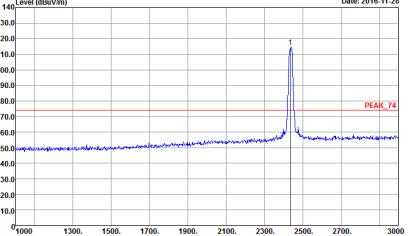
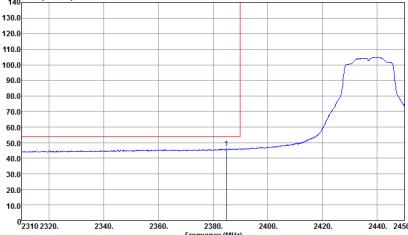
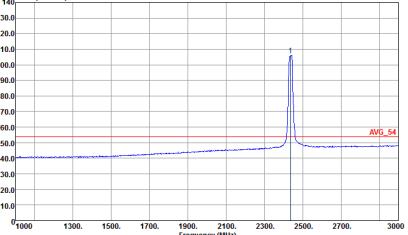
|      |   |   |
|------|---|---|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m  |   |
| ANT  | 802.11n HT20 CH01 2412MHz   |   |
| 1+2  | Vertical  | Fundamental   |
| Peak | <br>Site: 03CH07-HY<br>Condition: PEAK_BE_74_3m_HF-ANT_130829 VERTICAL<br>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector: Peak<br>Project: 6N0822<br>Mode: :20 | <br>Site: 03CH07-HY<br>Condition: PEAK_74_3m_HF-ANT_130829 VERTICAL<br>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector: Peak<br>Project: 6N0822<br>Mode: :20 |
| Avg. | <br>Site: 03CH07-HY<br>Condition: AVG_BE_54_3m_HF-ANT_130829 VERTICAL<br>RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br>Detector: Peak<br>Project: 6N0822<br>Mode: :20   | <br>Site: 03CH07-HY<br>Condition: AVG_54_3m_HF-ANT_130829 VERTICAL<br>RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br>Detector: Peak<br>Project: 6N0822<br>Mode: :20   |



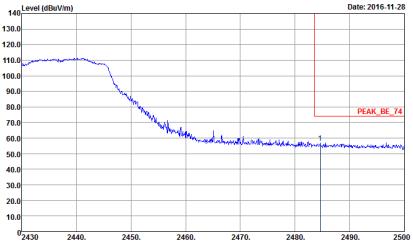
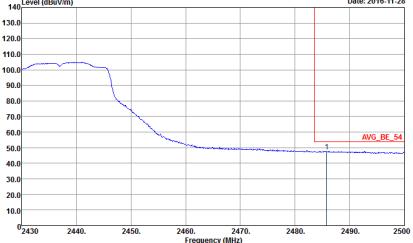


|      |  |             |
|------|--|-------------|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |             |
| ANT  | 802.11n HT20 CH06 2437MHz - R  |             |
| 1+2  | Horizontal   | Fundamental |
| Peak |  <p>Level (dBuV/m)</p> <p>Date: 2016-11-28</p> <p>PEAK_BE_74</p> <p>Site: 03CH07-HY<br/>Condition: PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 21</p> | Left blank  |
| Avg. |  <p>Level (dBuV/m)</p> <p>Date: 2016-11-28</p> <p>AVG_BE_54</p> <p>Site: 03CH07-HY<br/>Condition: AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 21</p> | Left blank  |

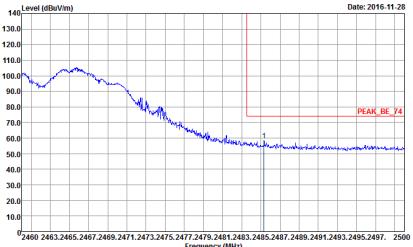
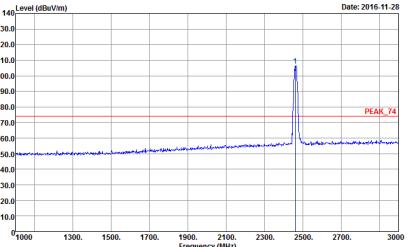
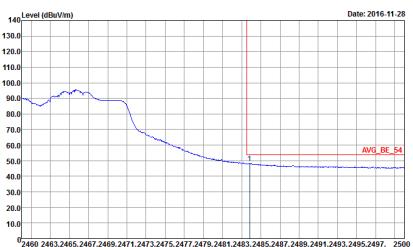
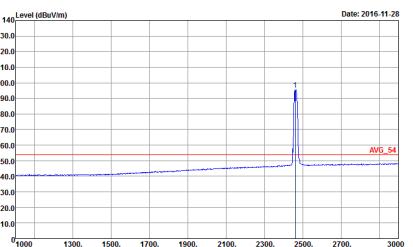


|      |  |  |
|------|--|--|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |  |
| ANT  | 802.11n HT20 CH06 2437MHz - L  |  |
| 1+2  | Vertical   | Fundamental  |
| Peak |  <p>Site Condition : 03CH07-HY<br/>PEAK_BE_74_3m_HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWF:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 21</p> |  <p>Site Condition : PEAK_74_3m_HF-ANT_130829 VERTICAL<br/>PEAK : 74_3m_HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWF:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 21</p> |
| Avg. |  <p>Site Condition : 03CH07-HY<br/>AVG_BE_54_3m_HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3.000KHz SWF:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 21</p>   |  <p>Site Condition : AVG_54_3m_HF-ANT_130829 VERTICAL<br/>AVG : 54_3m_HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3.000KHz SWF:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 21</p>    |

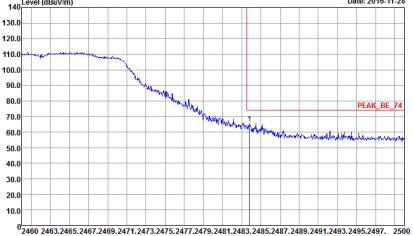
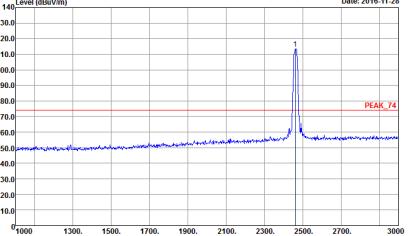
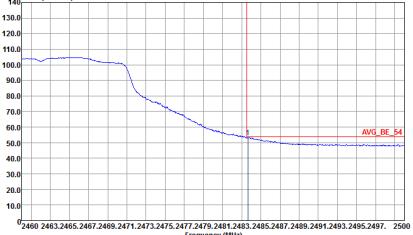
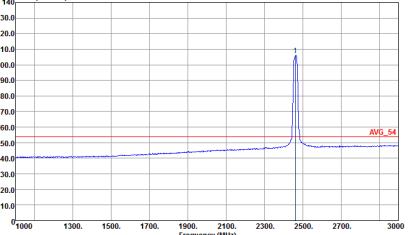


|      |  |             |
|------|--|-------------|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |             |
| ANT  | 802.11n HT20 CH06 2437MHz - R  |             |
| 1+2  | Vertical   | Fundamental |
| Peak |  <p>Site Condition : 03CH07-HY<br/>PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>RBW-1000.000KHz VBW-3000.000KHz SWT-Auto<br/>Detector Peak<br/>Project 6N0822<br/>Mode : 21</p> | Left Blank  |
| Avg. |  <p>Site Condition : 03CH07-HY<br/>AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>RBW-1000.000KHz VBW-3.000KHz SWT-Auto<br/>Detector Peak<br/>Project 6N0822<br/>Mode : 21</p>   | Left Blank  |



|      |   |   |
|------|---|---|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m  |   |
| ANT  | 802.11n HT20 CH11 2462MHz   |   |
| 1+2  | Horizontal  | Fundamental   |
| Peak |  <p>Site: 03CH07-HY<br/>Condition: PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 22<br/>: 14.75</p> |  <p>Site: 03CH07-HY<br/>Condition: PEAK_74 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 22<br/>: 14.75</p> |
| Avg. |  <p>Site: 03CH07-HY<br/>Condition: AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 22<br/>: 14.75</p>   |  <p>Site: 03CH07-HY<br/>Condition: AVG_54 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 22<br/>: 14.75</p>   |

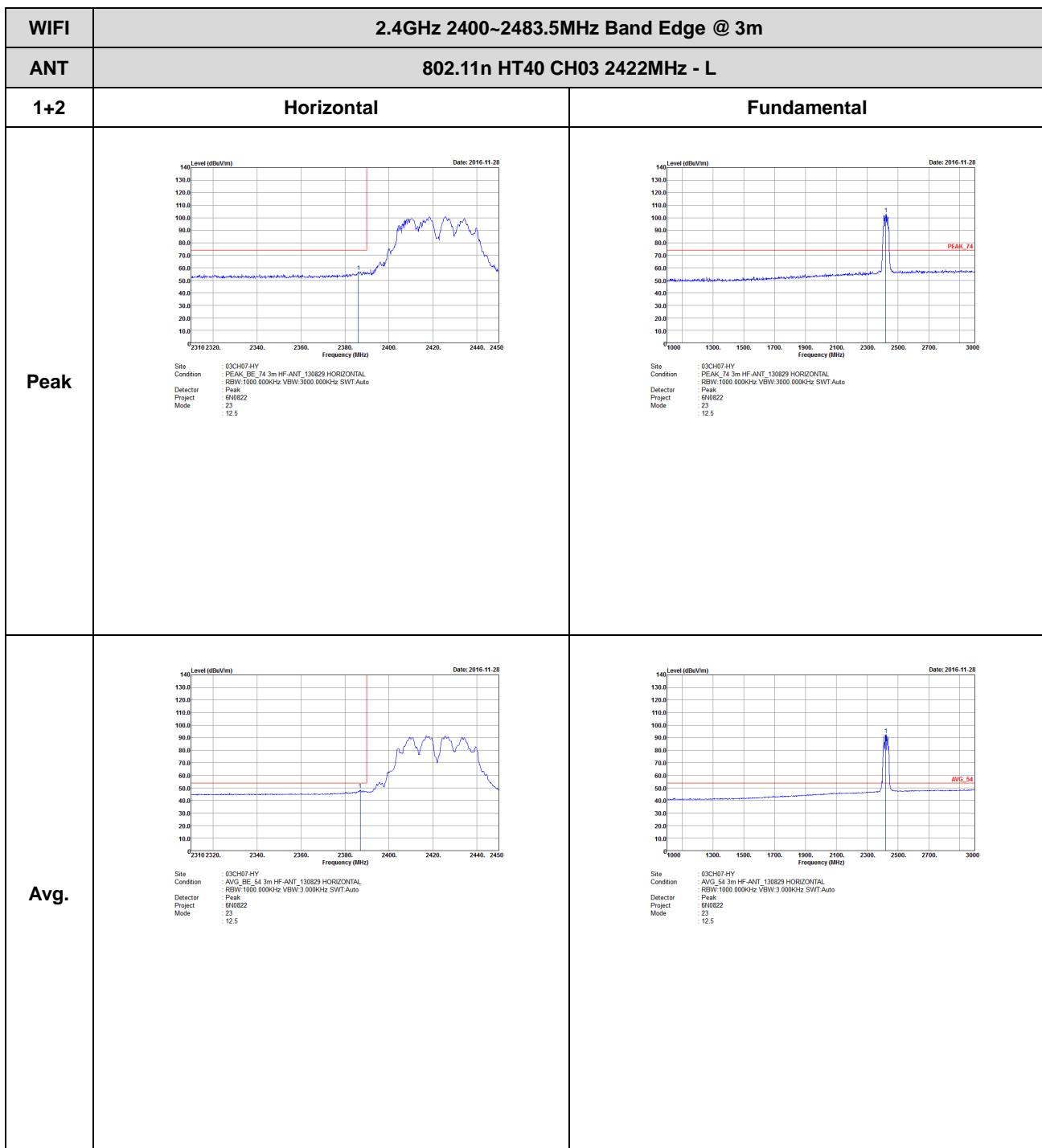


|      |  |  |
|------|--|--|
| WIFI | 2.4GHz 2400~2483.5MHz Fundamental @ 3m   |  |
| ANT  | 802.11n HT20 CH11 2462MHz  |  |
| 1+2  | Vertical   | Fundamental  |
| Peak | <br>Site : 03CH07-HY<br>Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br>RBW:1000.000KHz VBW:3000.000KHz SWF:Auto<br>Detector : Peak<br>Project : 6N0822<br>Mode : 22<br>: 14.75 | <br>Site : 03CH07-HY<br>Condition : PEAK_74 3m HF-ANT_130829 VERTICAL<br>RBW:1000.000KHz VBW:3000.000KHz SWF:Auto<br>Detector : Peak<br>Project : 6N0822<br>Mode : 22<br>: 14.75 |
| Avg. | <br>Site : 03CH07-HY<br>Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL<br>RBW:1000.000KHz VBW:3.000KHz SWF:Auto<br>Detector : Peak<br>Project : 6N0822<br>Mode : 22<br>: 14.75   | <br>Site : 03CH07-HY<br>Condition : AVG_54 3m HF-ANT_130829 VERTICAL<br>RBW:1000.000KHz VBW:3.000KHz SWF:Auto<br>Detector : Peak<br>Project : 6N0822<br>Mode : 22<br>: 14.75   |

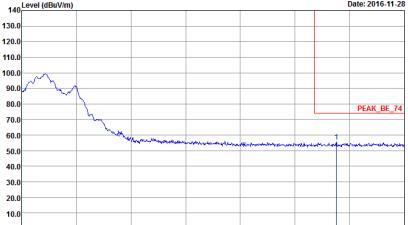
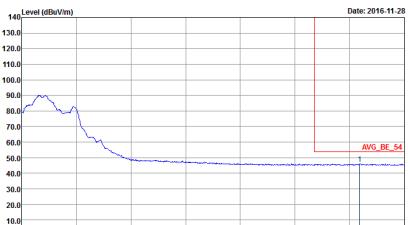


## 2.4GHz 2400~2483.5MHz

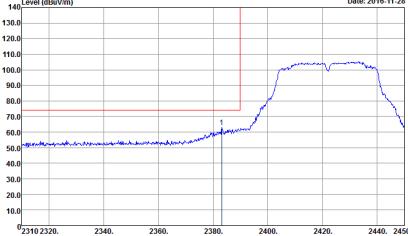
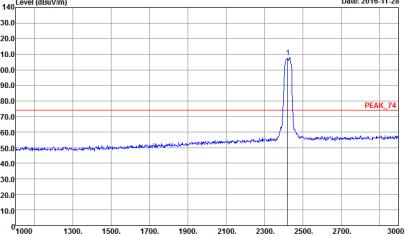
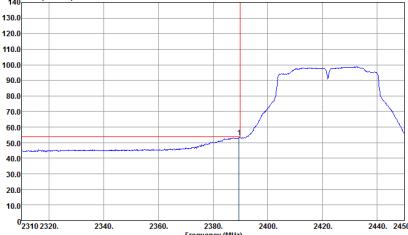
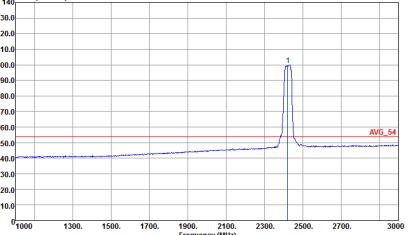
## WIFI 802.11n HT40 (Band Edge @ 3m)



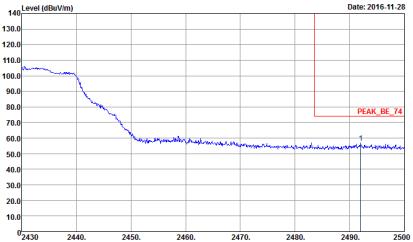
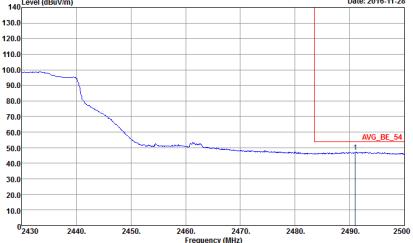


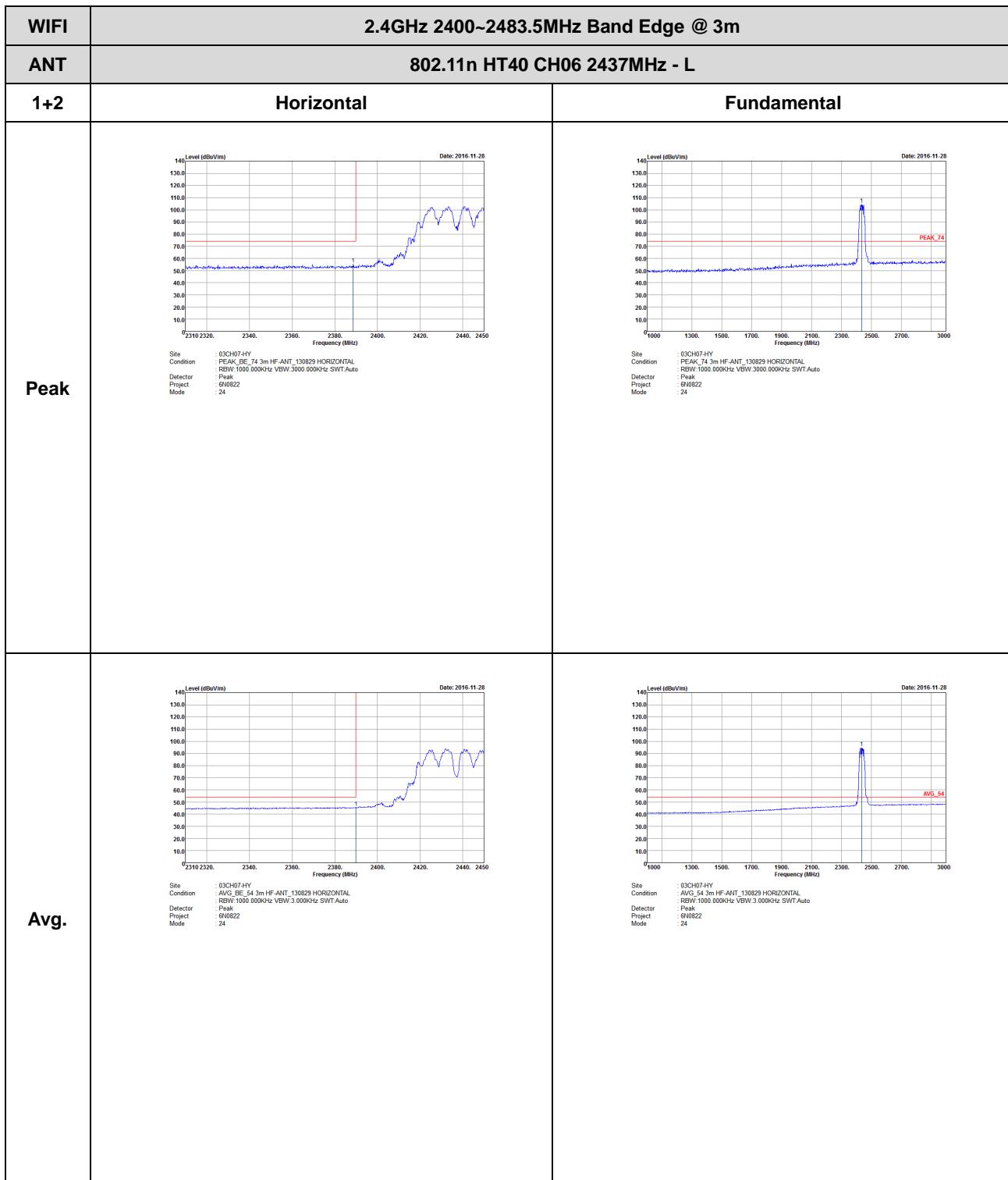
|      |   |             |
|------|---|-------------|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m  |             |
| ANT  | 802.11n HT40 CH03 2422MHz - R   |             |
| 1+2  | Horizontal  | Fundamental |
| Peak |  <p>Level (dBuV/m)</p> <p>Date: 2016-11-28</p> <p>PEAK_BE_74</p> <p>Site: 03CH07-HY<br/>Condition: PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 23<br/>: 12.5</p> | Left Blank  |
| Avg. |  <p>Level (dBuV/m)</p> <p>Date: 2016-11-28</p> <p>Avg_BE_54</p> <p>Site: 03CH07-HY<br/>Condition: AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 23<br/>: 12.5</p> | Left Blank  |



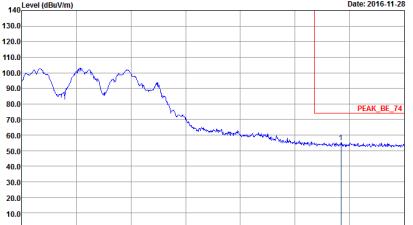
|      |   |   |
|------|---|---|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m  |   |
| ANT  | 802.11n HT40 CH03 2422MHz - L   |   |
| 1+2  | Vertical  | Fundamental   |
| Peak | <br>Site : 03CH07-HY<br>Condition : PEAK_BE_74_3m_HF-ANT_130829 VERTICAL<br>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Project : 6N0822<br>Mode : 23<br>: 12.5 | <br>Site : 03CH07-HY<br>Condition : PEAK_74_3m_HF-ANT_130829 VERTICAL<br>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Project : Peak<br>Mode : 23<br>: 12.5 |
| Avg. | <br>Site : 03CH07-HY<br>Condition : AVG_BE_54_3m_HF-ANT_130829 VERTICAL<br>Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br>Project : 6N0822<br>Mode : 23<br>: 12.5   | <br>Site : 03CH07-HY<br>Condition : AVG_54_3m_HF-ANT_130829 VERTICAL<br>Detector : Peak<br>Project : 6N0822<br>Mode : 23<br>: 12.5                                  |



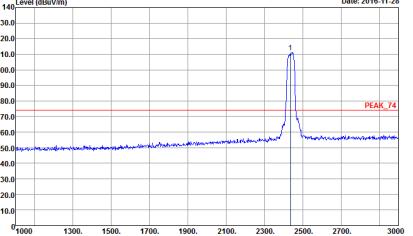
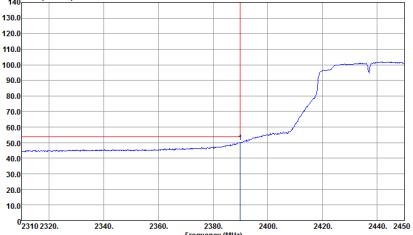
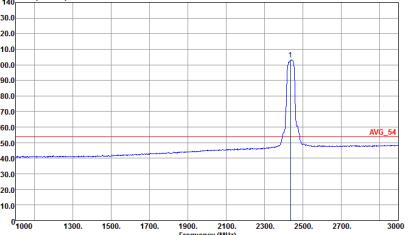
|      |  |             |
|------|--|-------------|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |             |
| ANT  | 802.11n HT40 CH03 2422MHz - R  |             |
| 1+2  | Vertical   | Fundamental |
| Peak |  <p>Site: 03CH07-HY<br/>Condition: PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWF:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 23<br/>12.5</p> | Left blank  |
| Avg. |  <p>Site: 03CH07-HY<br/>Condition: AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3.000KHz SWF:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 23<br/>12.5</p>   | Left blank  |





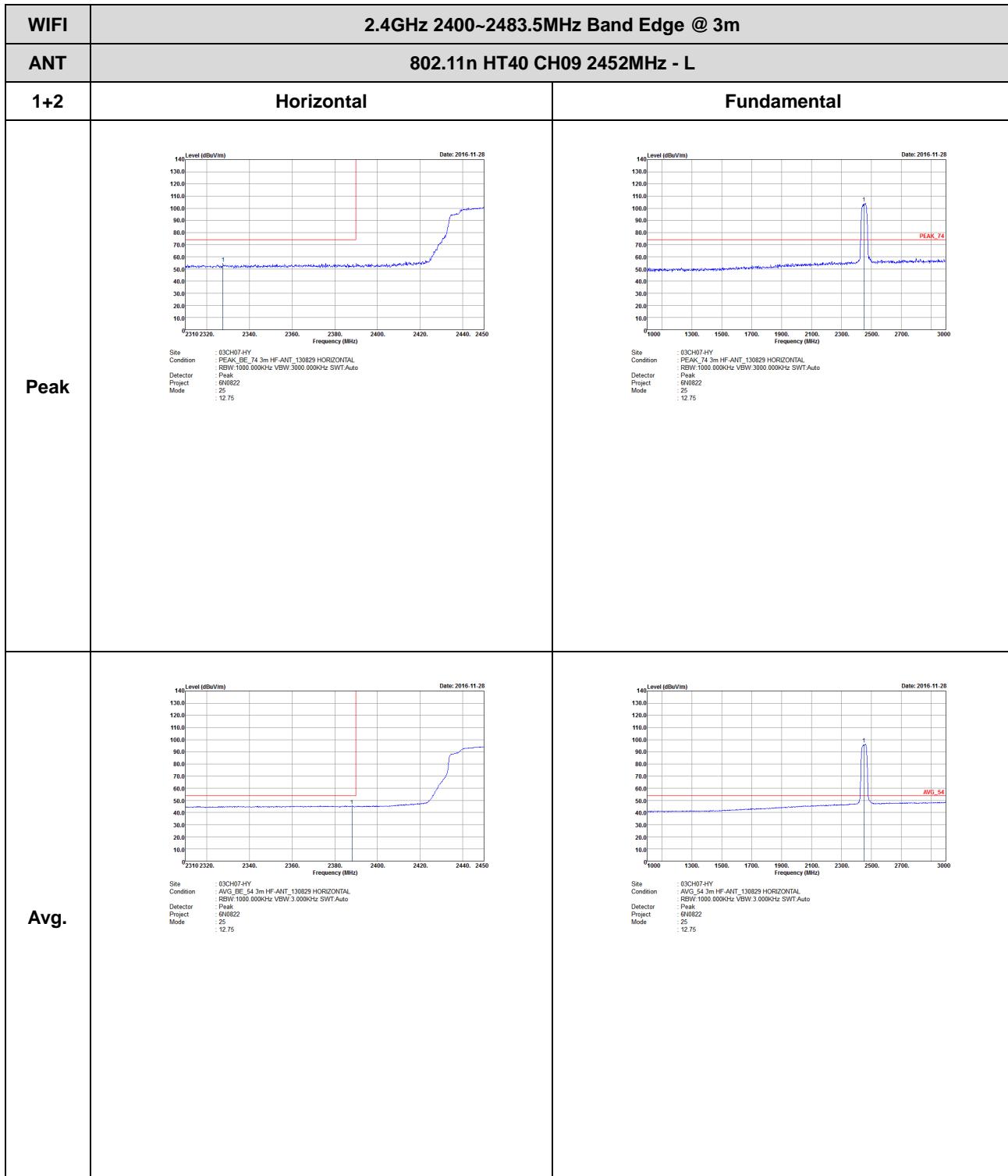
|      |   |             |
|------|---|-------------|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m  |             |
| ANT  | 802.11n HT40 CH06 2437MHz - R   |             |
| 1+2  | Horizontal  | Fundamental |
| Peak |  <p>Site: 03CH07-HY<br/>Condition: PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>RBW: 1000.000KHz VBW: 3.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 24</p>  | Left blank  |
| Avg. |  <p>Site: 03CH07-HY<br/>Condition: AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>RBW: 1000.000KHz VBW: 3.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 24</p> | Left blank  |



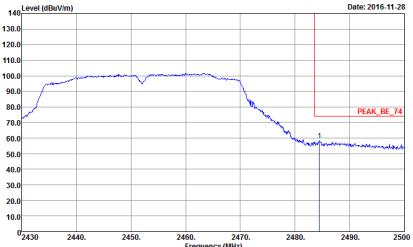
|      |  |   |
|------|--|---|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |   |
| ANT  | 802.11n HT40 CH06 2437MHz - L  |   |
| 1+2  | Vertical   | Fundamental   |
| Peak | <br>Site Condition : 03CH07-HY<br>Site Condition : PEAK_BE_74_3m_HF-ANT_130829 VERTICAL<br>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Project : 6N0822<br>Mode : 24 | <br>Site Condition : PEAK_74_3m_HF-ANT_130829 VERTICAL<br>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Project : Peak<br>Mode : 6N0822<br>Mode : 24 |
| Avg. | <br>Site Condition : 03CH07-HY<br>Site Condition : AVG_BE_54_3m_HF-ANT_130829 VERTICAL<br>Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br>Project : 6N0822<br>Mode : 24   | <br>Site Condition : AVG_54_3m_HF-ANT_130829 VERTICAL<br>Detector : Peak<br>Project : 6N0822<br>Mode : 24   |



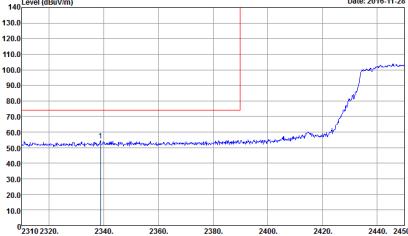
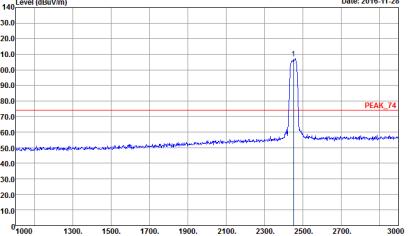
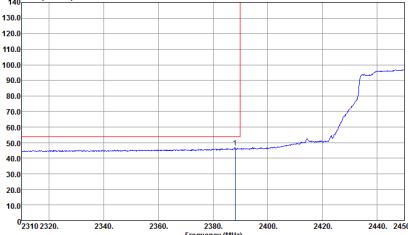
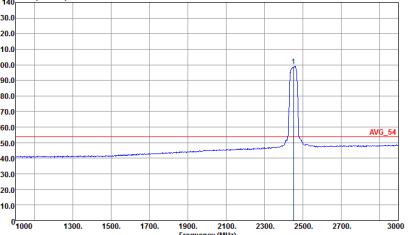
|      |  |             |
|------|--|-------------|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |             |
| ANT  | 802.11n HT40 CH06 2437MHz - R  |             |
| 1+2  | Horizontal   | Fundamental |
| Peak | <p>Site: 03CH07-HY<br/>Condition: PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3.000KHz SWF:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 24</p> | Left blank  |
| Avg. | <p>Site: 03CH07-HY<br/>Condition: AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3.000KHz SWF:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 24</p>  | Left blank  |





|      |  |             |
|------|--|-------------|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |             |
| ANT  | 802.11n HT40 CH09 2452MHz - R  |             |
| 1+2  | Horizontal   | Fundamental |
| Peak |  <p>Level (dBuV/m)</p> <p>Date: 2016-11-28</p> <p>Site: 03CH07-HY<br/>Condition: PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 25<br/>-12.75</p>  | Left blank  |
| Avg. |  <p>Level (dBuV/m)</p> <p>Date: 2016-11-28</p> <p>Site: 03CH07-HY<br/>Condition: AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 25<br/>-12.75</p> | Left blank  |



|      |   |   |
|------|---|---|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m  |   |
| ANT  | 802.11n HT40 CH09 2452MHz - L   |   |
| 1+2  | Vertical  | Fundamental   |
| Peak | <br>Site Condition : 03CH07-HY<br>Site Condition : PEAK_BE_74_3m_HF-ANT_130829 VERTICAL<br>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 6N0822<br>Mode : 25<br>.: 12.75 | <br>Site Condition : 03CH07-HY<br>Site Condition : PEAK_74_3m_HF-ANT_130829 VERTICAL<br>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 6N0822<br>Mode : 25<br>.: 12.75 |
| Avg. | <br>Site Condition : 03CH07-HY<br>Site Condition : AVG_BE_54_3m_HF-ANT_130829 VERTICAL<br>Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br>Detector : Peak<br>Project : 6N0822<br>Mode : 25<br>.: 12.75   | <br>Site Condition : 03CH07-HY<br>Site Condition : AVG_54_3m_HF-ANT_130829 VERTICAL<br>Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br>Detector : Peak<br>Project : 6N0822<br>Mode : 25<br>.: 12.75   |

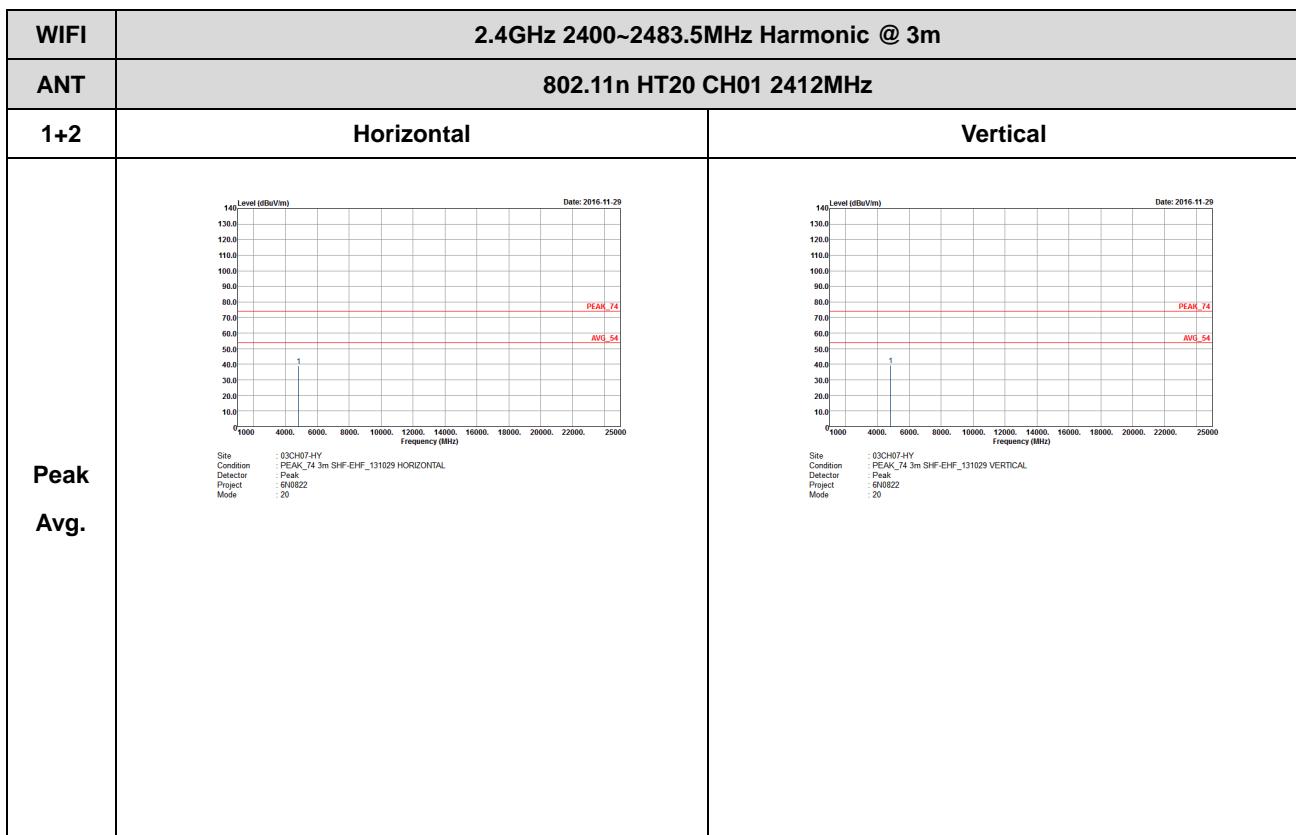


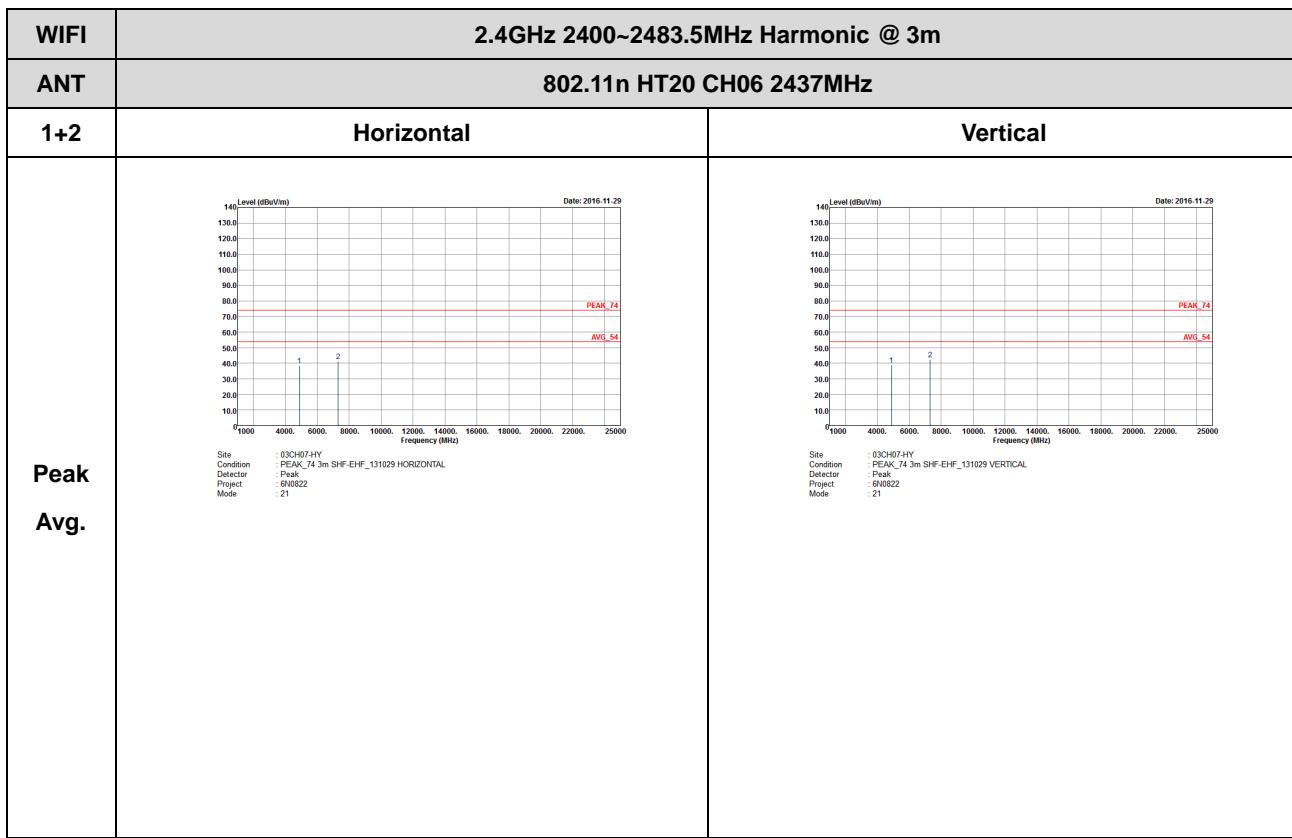
|      |  |             |
|------|--|-------------|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |             |
| ANT  | 802.11n HT40 CH09 2452MHz - R  |             |
| 1+2  | Vertical   | Fundamental |
| Peak | <p>Site Condition: 03CH07-HY<br/>PEAK_BE_74_3m_HF-ANT_130822 VERTICAL<br/>RBW-1000.000KHz VBW-3000.000KHz SWT-Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 25<br/>12.75</p> | Left blank  |
| Avg. | <p>Site Condition: 03CH07-HY<br/>AVG_BE_54_3m_HF-ANT_130822 VERTICAL<br/>RBW-1000.000KHz VBW-3.000KHz SWT-Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 25<br/>12.75</p>     | Left blank  |

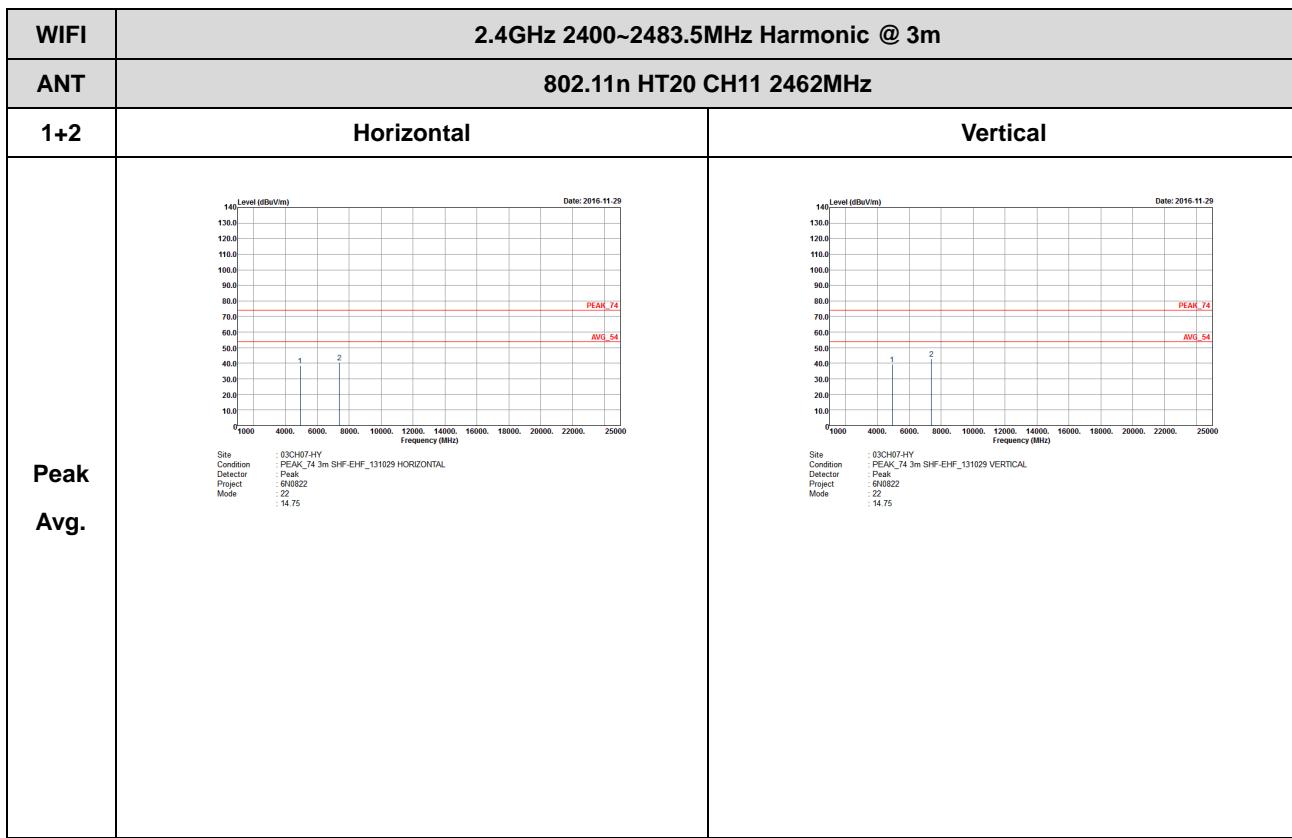


2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic @ 3m)



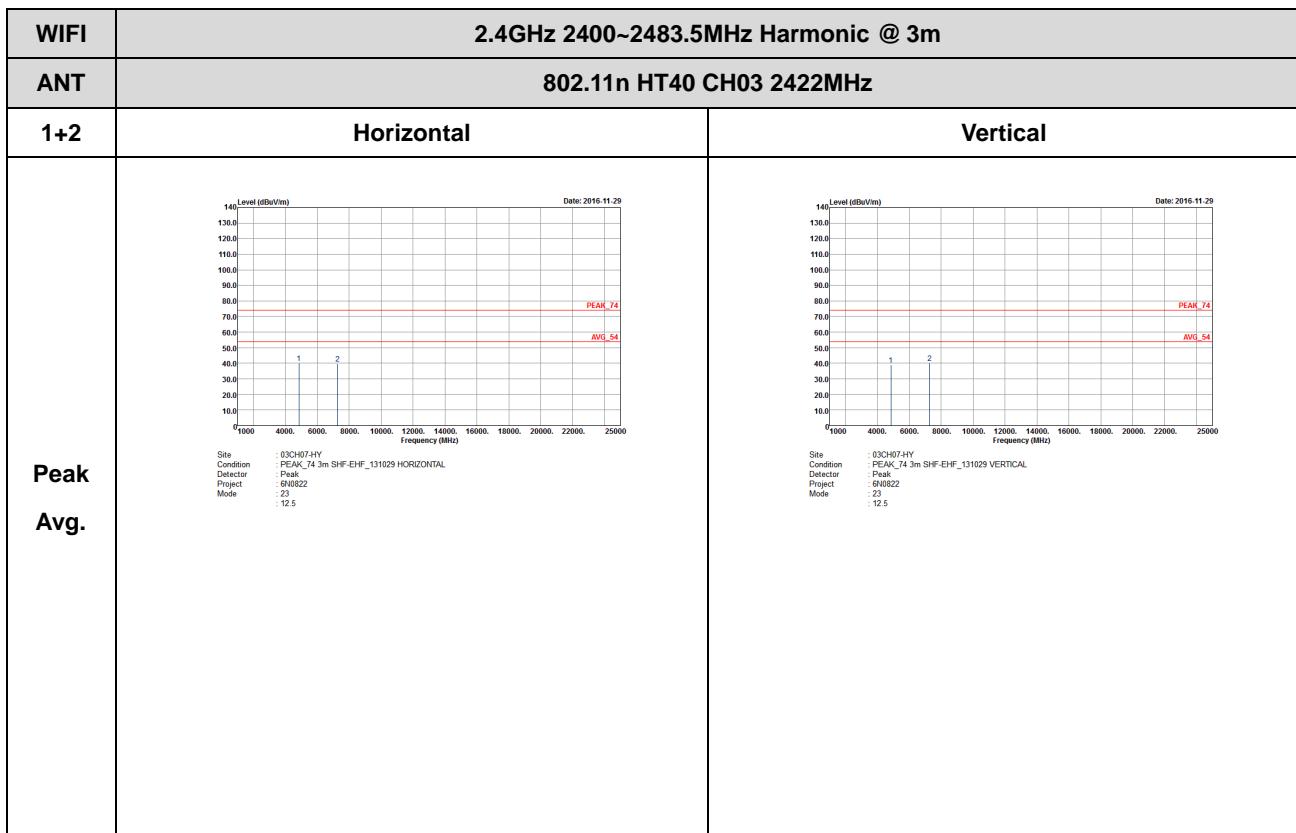


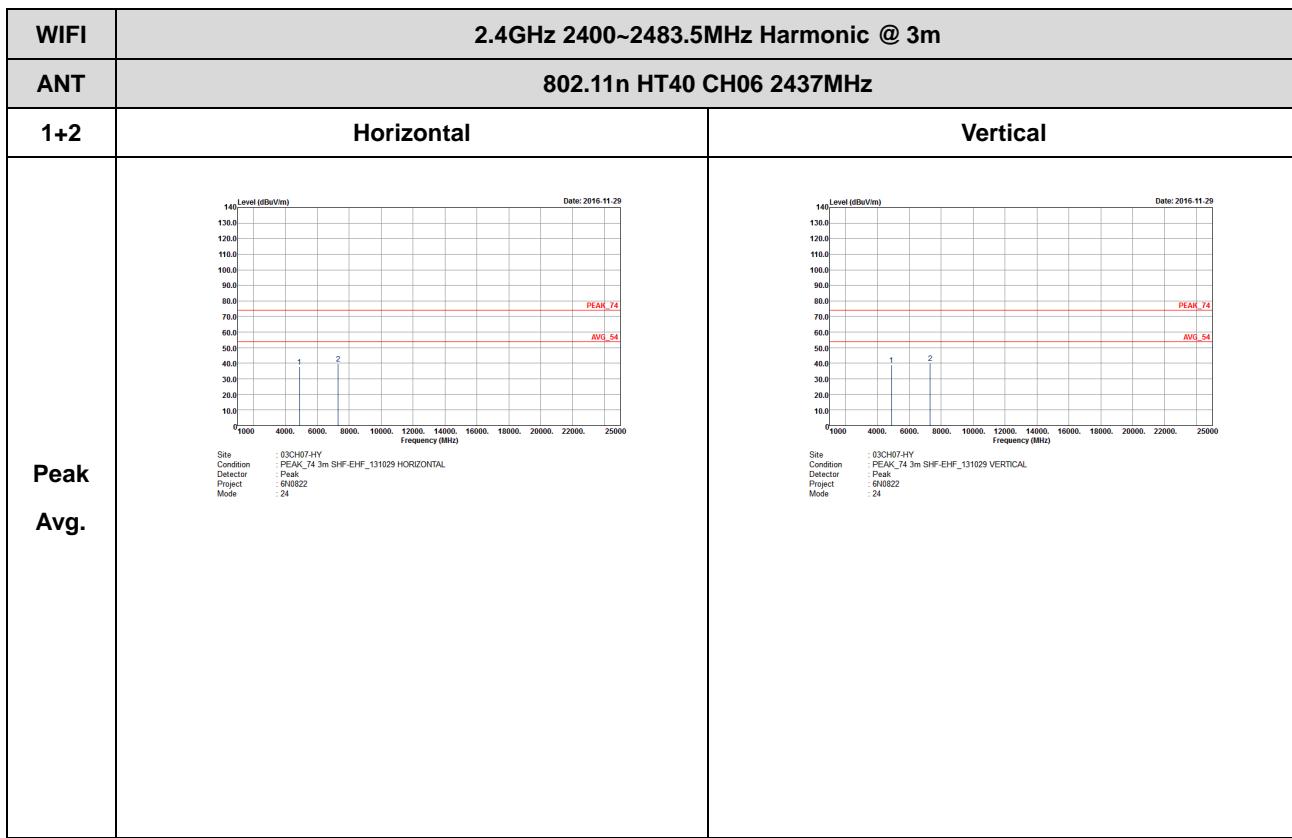


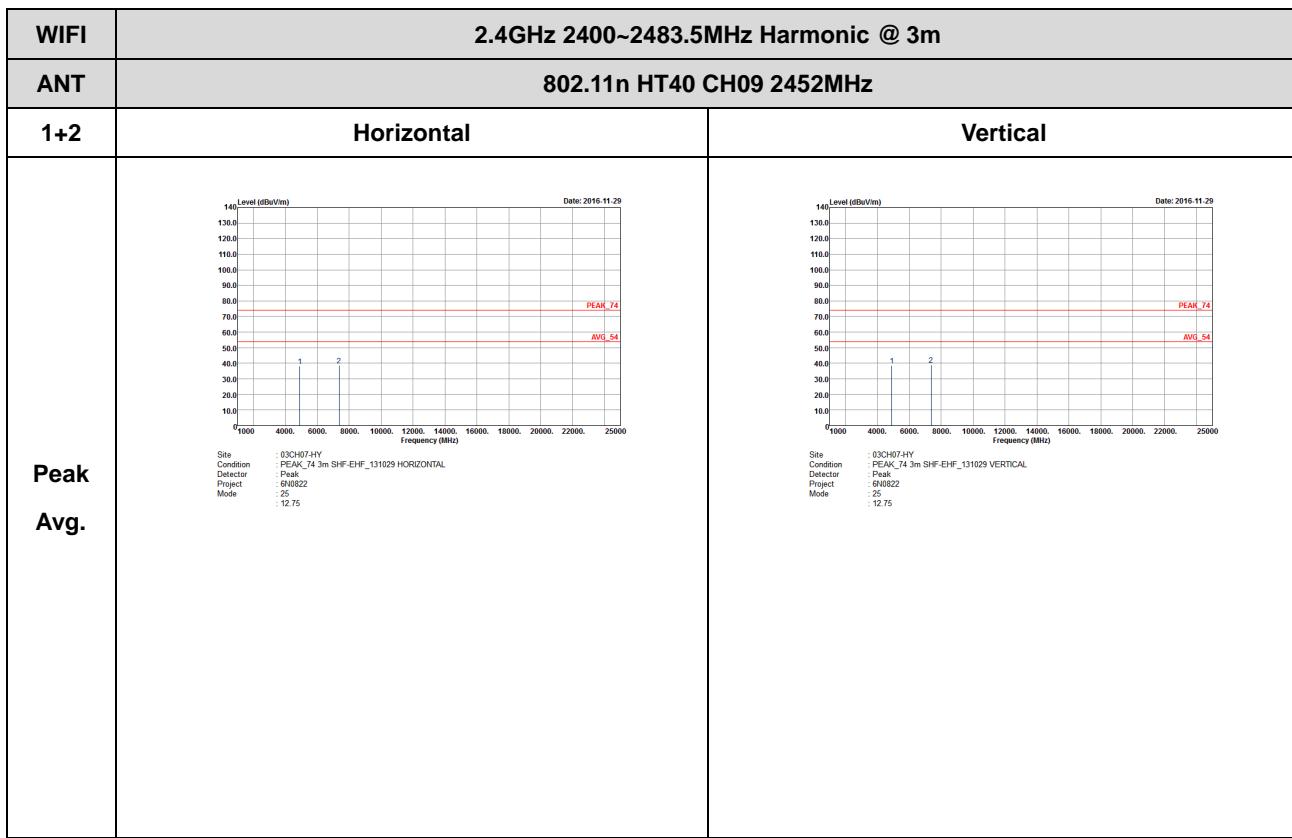


2.4GHz 2400~2483.5MHz

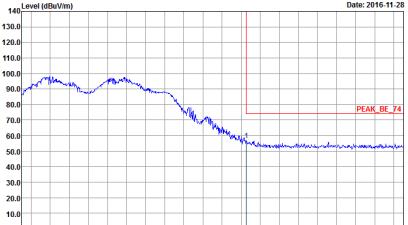
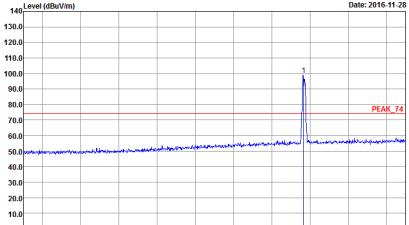
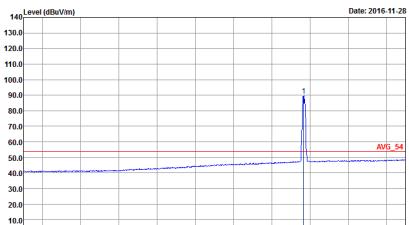
WIFI 802.11n HT40 (Harmonic @ 3m)



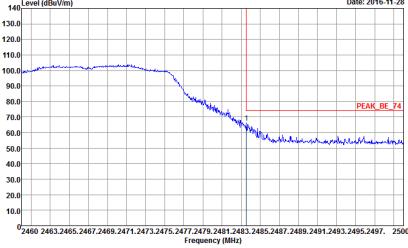
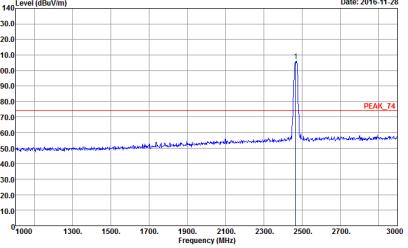
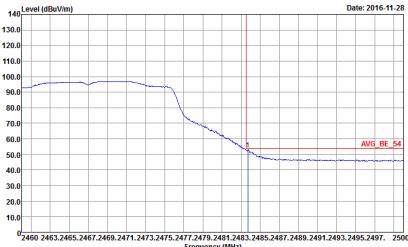
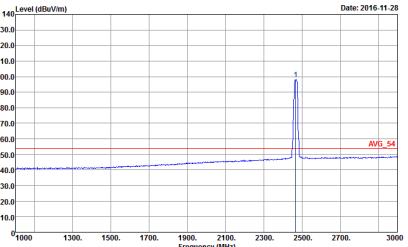




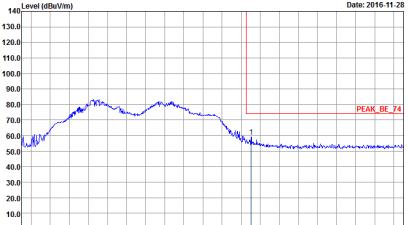
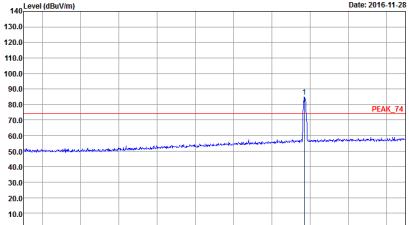
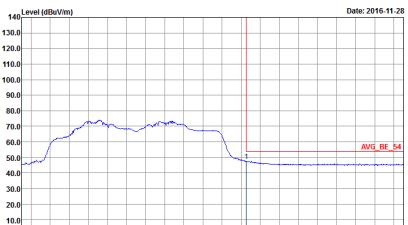
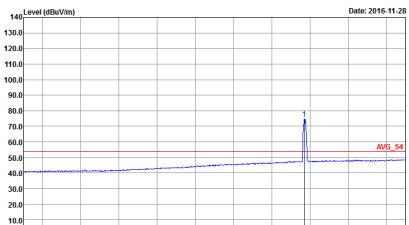


|      |   |   |
|------|---|---|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m  |   |
| ANT  | 802.11n HT20 CH12 2467MHz   |   |
| 1+2  | Horizontal  | Fundamental   |
| Peak |  <p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 34 : 7.25</p> |  <p>Site : 03CH07-HY<br/>Condition : PEAK_74 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 34 : 7.25</p> |
| Avg. |  <p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 34 : 7.25</p>   |  <p>Site : 03CH07-HY<br/>Condition : AVG_54 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 34 : 7.25</p>   |

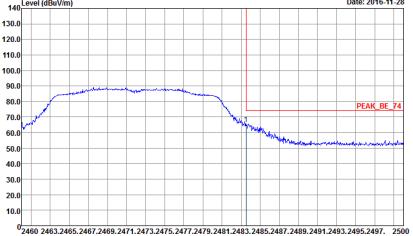
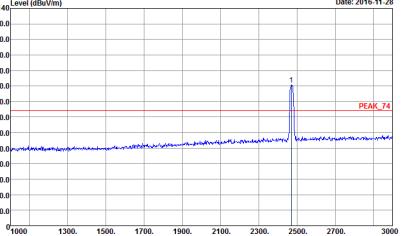
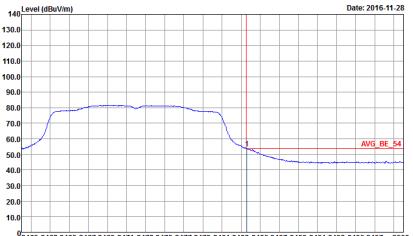
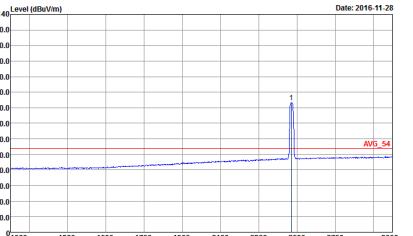


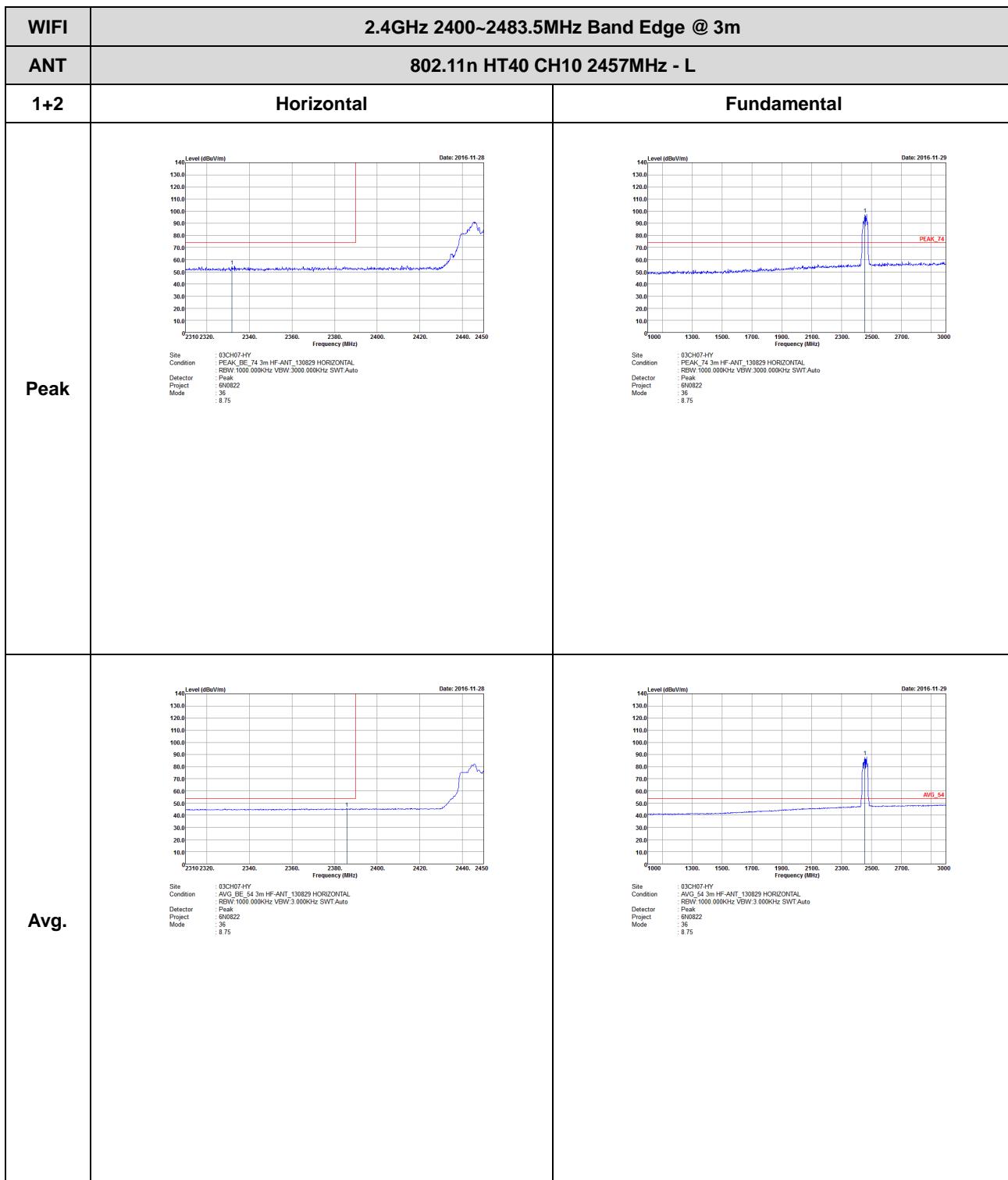
|      |   |   |
|------|---|---|
| WIFI | 2.4GHz 2400~2483.5MHz Fundamental @ 3m  |   |
| ANT  | 802.11n HT20 CH12 2467MHz   |   |
| 1+2  | Vertical  | Fundamental   |
| Peak | <br>Site : 03CH07-HY<br>Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 6N0822<br>Mode : 34<br>: 7.25 | <br>Site : 03CH07-HY<br>Condition : PEAK_74 3m HF-ANT_130829 VERTICAL<br>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 6N0822<br>Mode : 34<br>: 7.25 |
| Avg. | <br>Site : 03CH07-HY<br>Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL<br>RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br>Detector : Peak<br>Project : 6N0822<br>Mode : 34<br>: 7.25   | <br>Site : 03CH07-HY<br>Condition : AVG_54 3m HF-ANT_130829 VERTICAL<br>RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br>Detector : Peak<br>Project : 6N0822<br>Mode : 34<br>: 7.25   |



|      |   |   |
|------|---|---|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m  |   |
| ANT  | 802.11n HT20 CH13 2472MHz   |   |
| 1+2  | Horizontal  | Fundamental   |
| Peak |  <p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 35<br/>:-10</p> |  <p>Site : 03CH07-HY<br/>Condition : PEAK_74 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 35<br/>:-10</p> |
| Avg. |  <p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 35<br/>:-10</p>   |  <p>Site : 03CH07-HY<br/>Condition : AVG_54 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 35<br/>:-10</p>   |



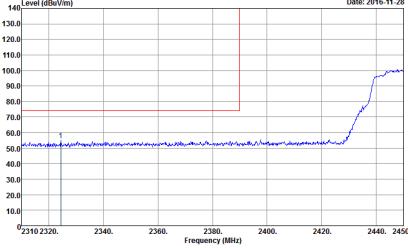
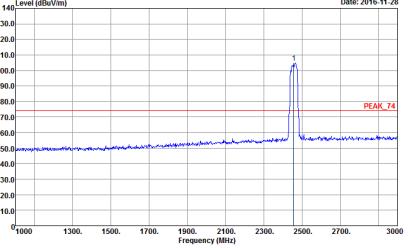
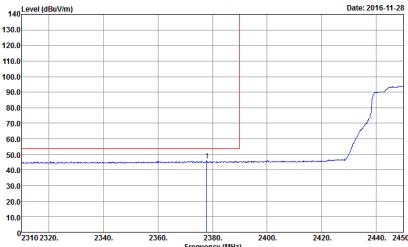
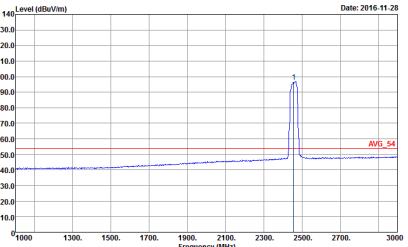
|      |   |   |
|------|---|---|
| WIFI | 2.4GHz 2400~2483.5MHz Fundamental @ 3m  |   |
| ANT  | 802.11n HT20 CH13 2472MHz   |   |
| 1+2  | Vertical  | Fundamental   |
| Peak | <br>Site : 03CH07-HY<br>Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br>RBW:1000.000KHz VBW:3000.000KHz SWF:Auto<br>Detector : Peak<br>Project : 6N0822<br>Mode : 35<br>:-10 | <br>Site : 03CH07-HY<br>Condition : PEAK_74 3m HF-ANT_130829 VERTICAL<br>RBW:1000.000KHz VBW:3000.000KHz SWF:Auto<br>Detector : Peak<br>Project : 6N0822<br>Mode : 35<br>:-10 |
| Avg. | <br>Site : 03CH07-HY<br>Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL<br>RBW:1000.000KHz VBW:3.000KHz SWF:Auto<br>Detector : Peak<br>Project : 6N0822<br>Mode : 35<br>:-10   | <br>Site : 03CH07-HY<br>Condition : AVG_54 3m HF-ANT_130829 VERTICAL<br>RBW:1000.000KHz VBW:3.000KHz SWF:Auto<br>Detector : Peak<br>Project : 6N0822<br>Mode : 35<br>:-10   |





|      |   |             |
|------|---|-------------|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m  |             |
| ANT  | 802.11n HT40 CH10 2457MHz - R   |             |
| 1+2  | Horizontal  | Fundamental |
| Peak | <p>Site: 03CH07-HY<br/>Condition: PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VSWR:3.000kW3.000kHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 36 : 8.75</p> | Left blank  |
| Avg. | <p>Site: 03CH07-HY<br/>Condition: AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VSWR:3.000kW3.000kHz SWT:Auto<br/>Detector: Peak<br/>Project: 6N0822<br/>Mode: 36 : 8.75</p>  | Left blank  |

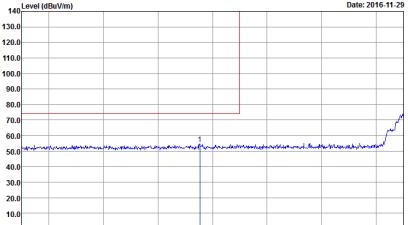
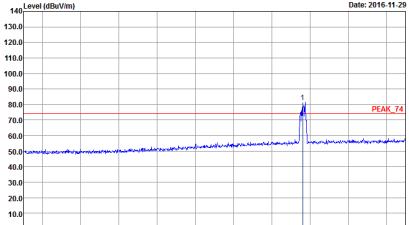
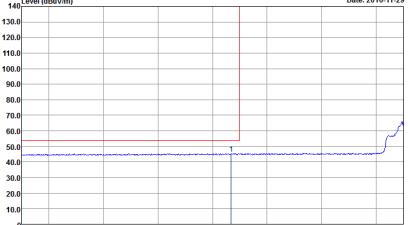
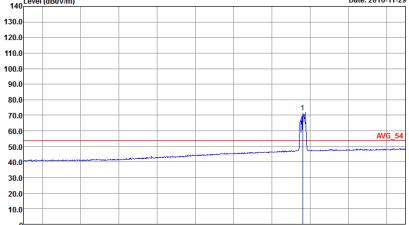


|      |   |   |
|------|---|---|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m  |   |
| ANT  | 802.11n HT40 CH10 2457MHz - L   |   |
| 1+2  | Vertical  | Fundamental   |
| Peak | <br>Site : 03CH07-HY<br>Condition : PEAK_BE_74.3m_HF-ANT_130829 VERTICAL<br>Detector : RBW-1000.000KHz VBW-3000.000KHz SWT-Auto<br>Project : 6N0822<br>Mode : 36<br>: 8.75 | <br>Site : 03CH07-HY<br>Condition : PEAK_74.3m_HF-ANT_130829 VERTICAL<br>Detector : RBW-1000.000KHz VBW-3000.000KHz SWT-Auto<br>Project : Peak<br>Mode : 36<br>: 8.75           |
| Avg. | <br>Site : 03CH07-HY<br>Condition : AVG_BE_54.3m_HF-ANT_130829 VERTICAL<br>Detector : RBW-1000.000KHz VBW-3.000KHz SWT-Auto<br>Project : 6N0822<br>Mode : 36<br>: 8.75   | <br>Site : 03CH07-HY<br>Condition : AVG_54.3m_HF-ANT_130829 VERTICAL<br>Detector : RBW-1000.000KHz VBW-3.000KHz SWT-Auto<br>Project : Peak<br>Mode : 6N0822<br>: 36<br>: 8.75 |



|      |  |             |
|------|--|-------------|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |             |
| ANT  | 802.11n HT40 CH10 2457MHz - R  |             |
| 1+2  | Vertical   | Fundamental |
| Peak | <p>Site Condition: 03CH07-HY PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>Detector: RBW-1000.000KHz VSWR-3.000KHz SWT-Auto<br/>Project: 080822<br/>Mode: 36<br/>: 8.75</p> | Left blank  |
| Avg. | <p>Site Condition: 03CH07-HY AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>Detector: RBW-1000.000KHz VSWR-3.000KHz SWT-Auto<br/>Project: 080822<br/>Mode: 36<br/>: 8.75</p>  | Left blank  |

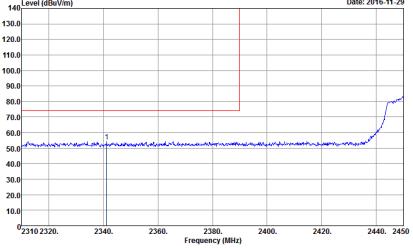
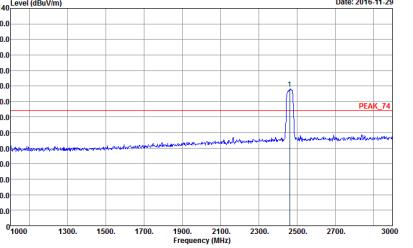
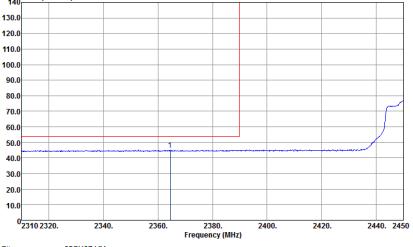
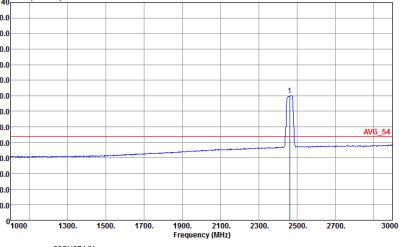


|      |   |   |
|------|---|---|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m  |   |
| ANT  | 802.11n HT40 CH11 2462MHz - L   |   |
| 1+2  | Horizontal  | Fundamental   |
| Peak |  <p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74_3m_HF-ANT_130829_HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 37<br/>:-9.25</p> |  <p>Site : 03CH07-HY<br/>Condition : PEAK_74_3m_HF-ANT_130829_HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 37<br/>:-9.25</p> |
| Avg. |  <p>Site : 03CH07-HY<br/>Condition : AVG_BE_54_3m_HF-ANT_130829_HORIZONTAL<br/>RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 37<br/>:-9.25</p>   |  <p>Site : 03CH07-HY<br/>Condition : AVG_54_3m_HF-ANT_130829_HORIZONTAL<br/>RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 37<br/>:-9.25</p>   |

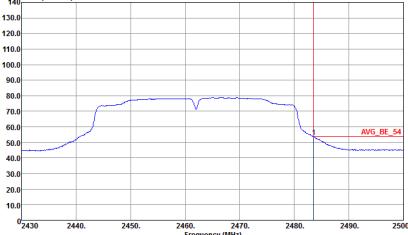


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |             |
|------|--|-------------|
| ANT  | 802.11n HT40 CH11 2462MHz - R  |             |
| 1+2  | Horizontal   | Fundamental |
| Peak |  <p>Site : 03CH07.HY<br/> Condition : PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/> Detector : RBW:1000.000kHz VBW:3000.000kHz SWF:Auto<br/> Peak<br/> Project : EN922<br/> Mode : 3T : -3.25</p> | Left blank  |
| Avg. |  <p>Site : 03CH07.HY<br/> Condition : AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/> RBW:1000.000kHz VBW:3.000kHz SWF:Auto<br/> Peak<br/> Project : EN922<br/> Mode : 3T : -3.25</p>              | Left blank  |



|      |   |   |
|------|---|---|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m  |   |
| ANT  | 802.11n HT40 CH11 2462MHz - L   |   |
| 1+2  | Vertical  | Fundamental   |
| Peak |  <p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74.3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 37<br/>:-9.25</p> |  <p>Site : 03CH07-HY<br/>Condition : PEAK_74.3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 37<br/>:-9.25</p> |
| Avg. |  <p>Site : 03CH07-HY<br/>Condition : AVG_BE_54.3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 37<br/>:-9.25</p>   |  <p>Site : 03CH07-HY<br/>Condition : AVG_54.3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 37<br/>:-9.25</p>   |



|      |  |             |
|------|--|-------------|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |             |
| ANT  | 802.11n HT40 CH11 2462MHz - R  |             |
| 1+2  | Vertical   | Fundamental |
| Peak |  <p>Site Condition : 03CH07-HY<br/>PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VSW:3.0000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 37<br/>:-9.25</p>  | Left blank  |
| Avg. |  <p>Site Condition : 03CH07-HY<br/>AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VSW:3.0000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 6N0822<br/>Mode : 37<br/>:-9.25</p> | Left blank  |