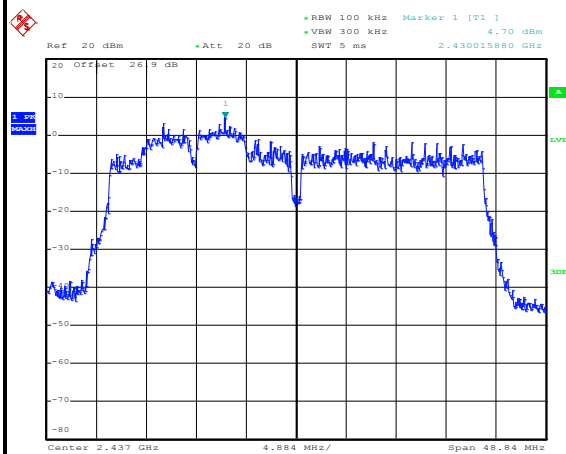
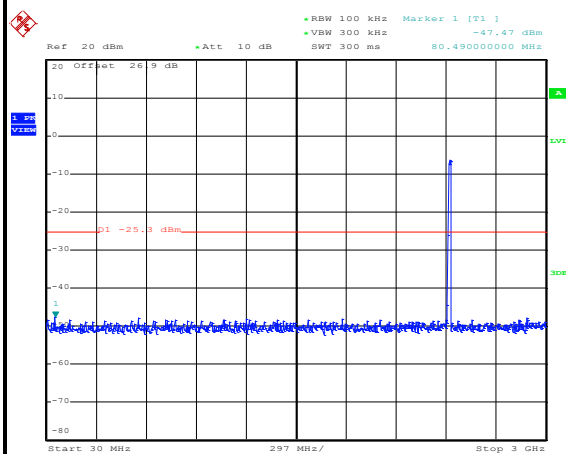




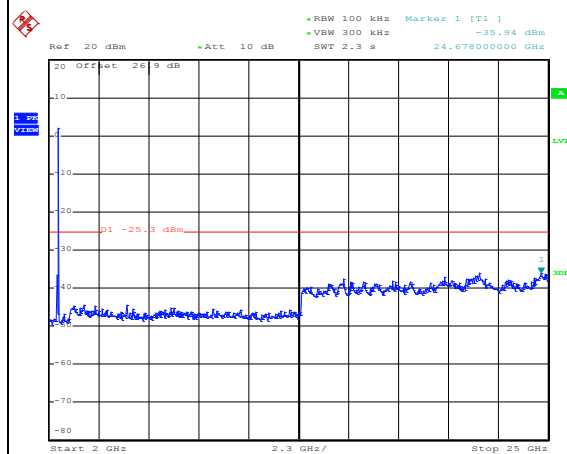
|                |                |                     |                         |
|----------------|----------------|---------------------|-------------------------|
| Number of TX : | 2              | Ant. :              | 1                       |
| Test Mode :    | 802.11ac VHT40 | Temperature :       | 21~25°C                 |
| Test Band :    | 2.4GHz Mid     | Relative Humidity : | 51~54%                  |
| Test Channel : | 06             | Test Engineer :     | Tommy Lee and Luffy Lin |

**WLAN 802.11ac VHT40 Channel 06****100kHz PSD reference Level**

Date: 7.JUL.2016 17:19:40

**Spurious Emission 30MHz~3GHz**

Date: 7.JUL.2016 17:20:59

**Spurious Emission 2GHz~25GHz**

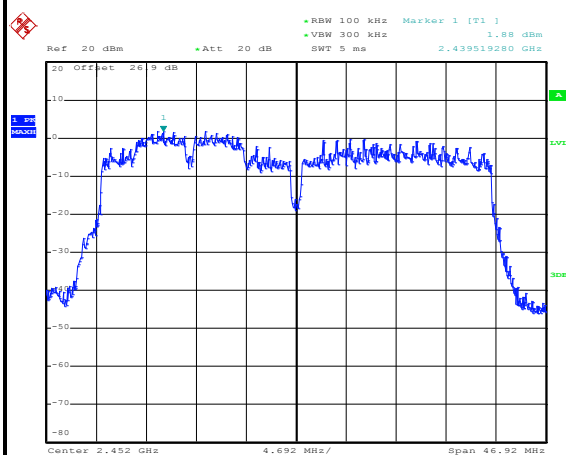
Date: 7.JUL.2016 19:23:14



|                |                |                     |                         |
|----------------|----------------|---------------------|-------------------------|
| Number of TX : | 2              | Ant. :              | 1                       |
| Test Mode :    | 802.11ac VHT40 | Temperature :       | 21~25°C                 |
| Test Band :    | 2.4GHz High    | Relative Humidity : | 51~54%                  |
| Test Channel : | 09             | Test Engineer :     | Tommy Lee and Luffy Lin |

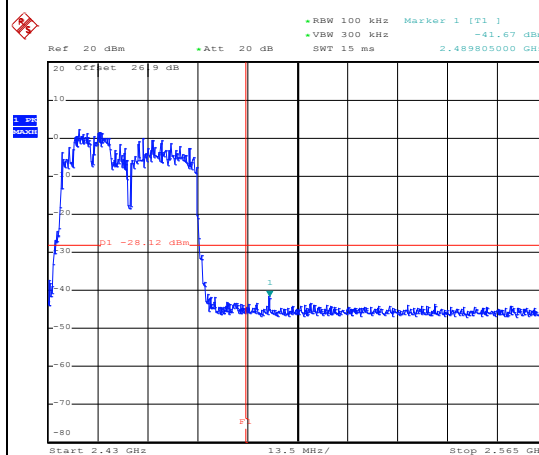
## WLAN 802.11ac VHT40 Channel 09

## 100kHz PSD reference Level



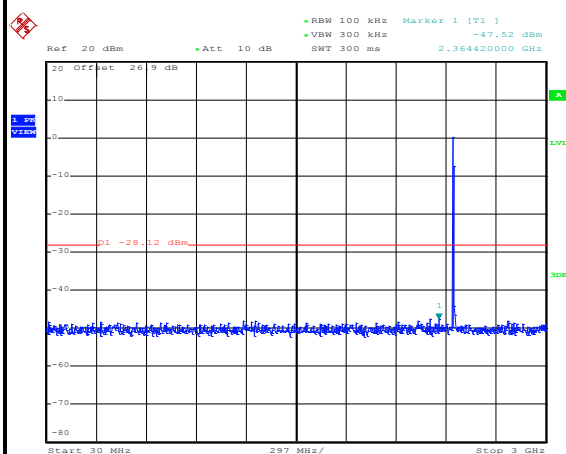
Date: 7.JUL.2016 17:55:08

## High Channel Plot



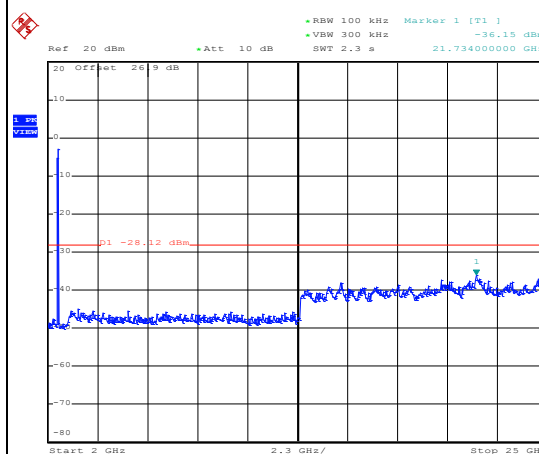
Date: 7.JUL.2016 17:56:12

## Spurious Emission 30MHz~3GHz



Date: 7.JUL.2016 18:30:19

## Spurious Emission 2GHz~25GHz



Date: 7.JUL.2016 19:08:29

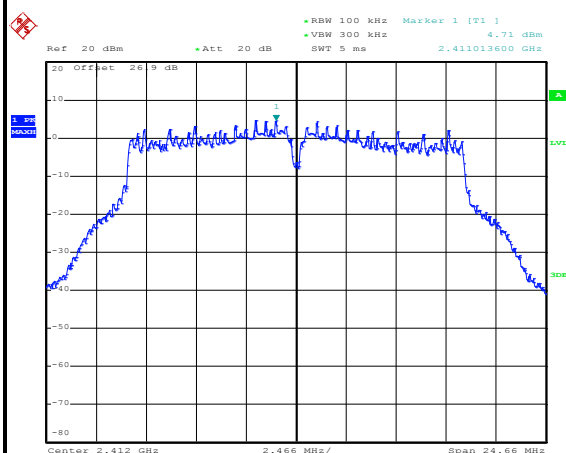


Number of TX = 2, Ant. 2 (Measured)

|                |            |                     |                         |
|----------------|------------|---------------------|-------------------------|
| Number of TX : | 2          | Ant. :              | 2                       |
| Test Mode :    | 802.11g    | Temperature :       | 21~25°C                 |
| Test Band :    | 2.4GHz Low | Relative Humidity : | 51~54%                  |
| Test Channel : | 01         | Test Engineer :     | Tommy Lee and Luffy Lin |

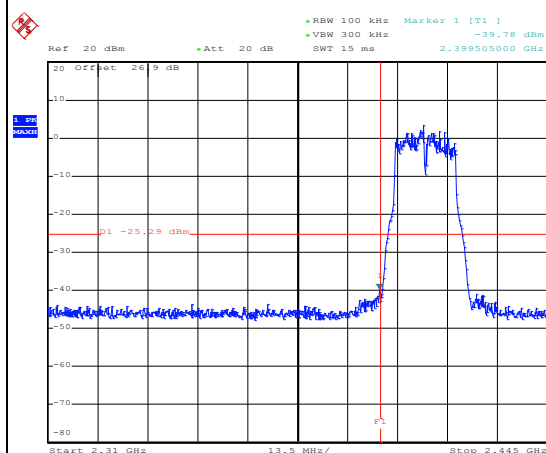
## WLAN 802.11g Channel 01

## 100kHz PSD reference Level



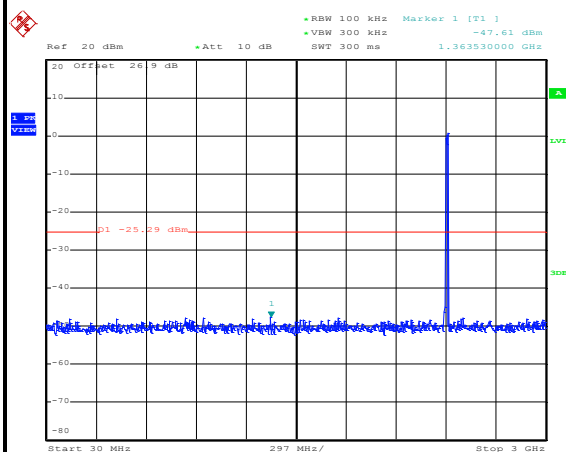
Date: 7.JUL.2016 00:28:46

## Low Channel Plot



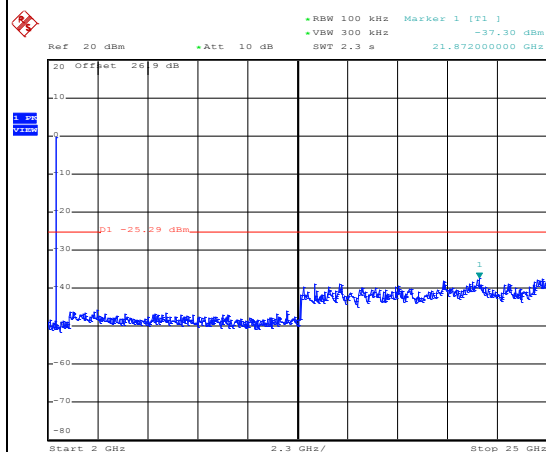
Date: 7.JUL.2016 00:29:16

## Spurious Emission 30MHz~3GHz



Date: 7.JUL.2016 01:10:14

## Spurious Emission 2GHz~25GHz



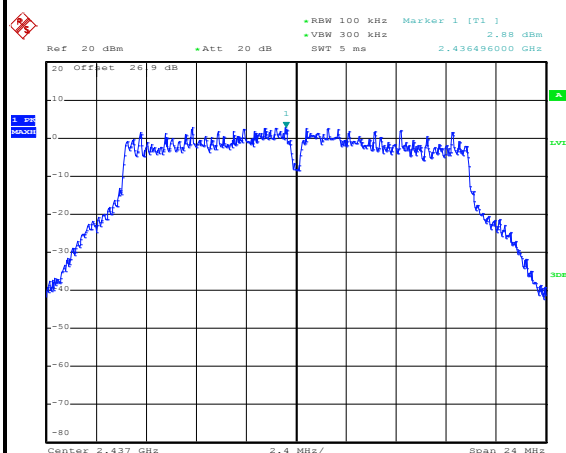
Date: 7.JUL.2016 01:10:23



|                |            |                     |                         |
|----------------|------------|---------------------|-------------------------|
| Number of TX : | 2          | Ant. :              | 2                       |
| Test Mode :    | 802.11g    | Temperature :       | 21~25°C                 |
| Test Band :    | 2.4GHz Mid | Relative Humidity : | 51~54%                  |
| Test Channel : | 06         | Test Engineer :     | Tommy Lee and Luffy Lin |

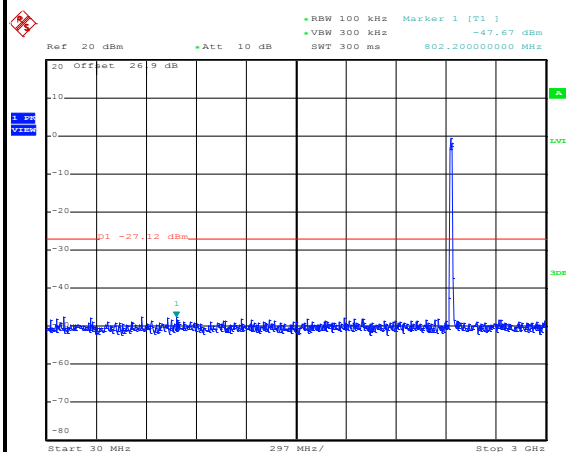
## WLAN 802.11g Channel 06

## 100kHz PSD reference Level



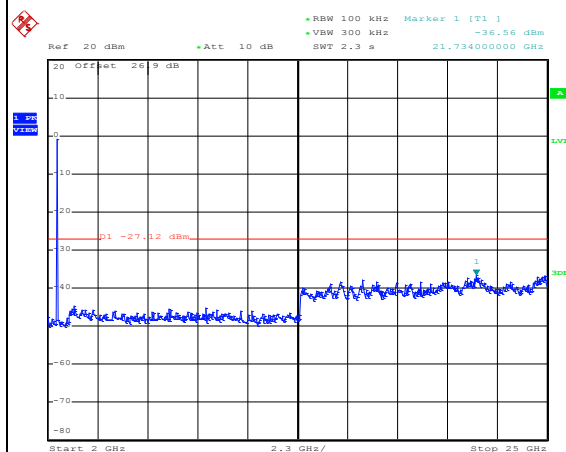
Date: 7.JUL.2016 01:01:03

## Spurious Emission 30MHz~3GHz



Date: 7.JUL.2016 01:03:01

## Spurious Emission 2GHz~25GHz



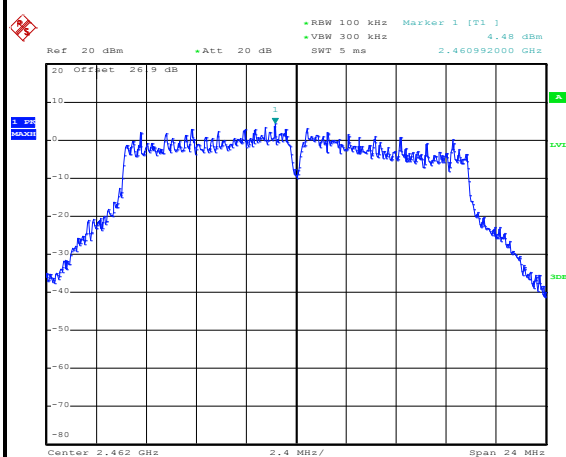
Date: 7.JUL.2016 01:06:54



|                |             |                     |                         |
|----------------|-------------|---------------------|-------------------------|
| Number of TX : | 2           | Ant. :              | 2                       |
| Test Mode :    | 802.11g     | Temperature :       | 21~25°C                 |
| Test Band :    | 2.4GHz High | Relative Humidity : | 51~54%                  |
| Test Channel : | 11          | Test Engineer :     | Tommy Lee and Luffy Lin |

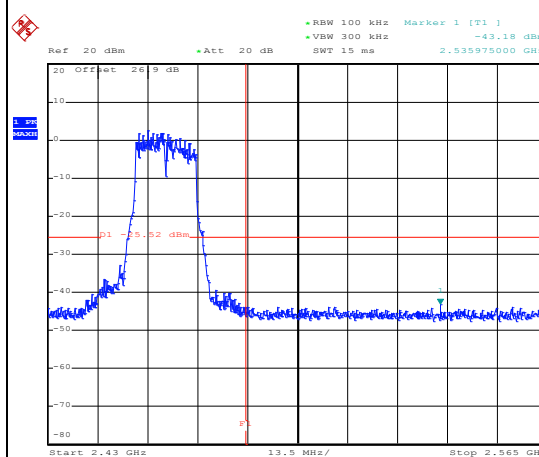
## WLAN 802.11g Channel 11

## 100kHz PSD reference Level



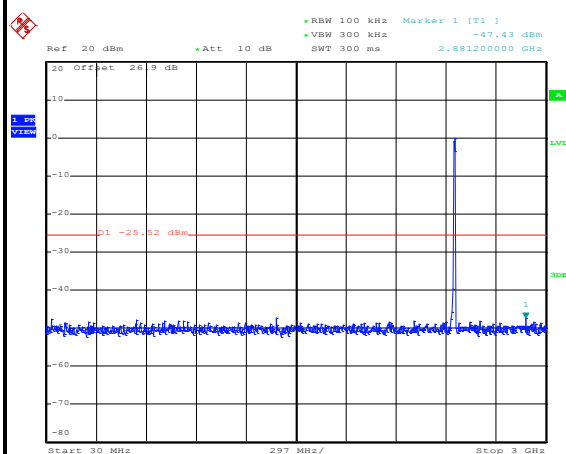
Date: 7.JUL.2016 01:39:23

## High Channel Plot



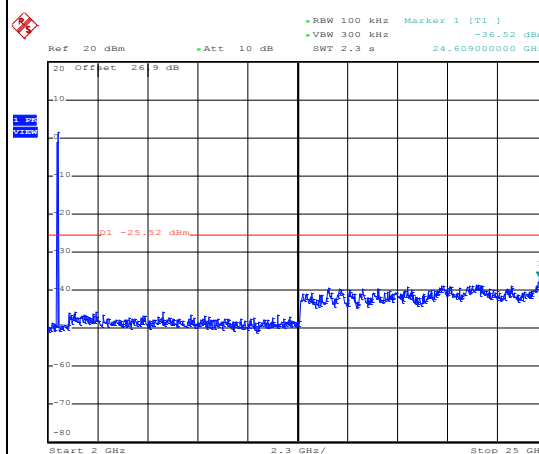
Date: 7.JUL.2016 01:40:01

## Spurious Emission 30MHz~3GHz



Date: 7.JUL.2016 01:41:34

## Spurious Emission 2GHz~25GHz



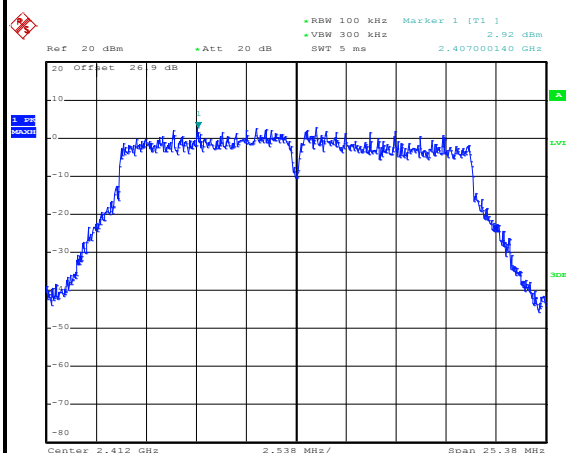
Date: 7.JUL.2016 01:41:43



|                |              |                     |                         |
|----------------|--------------|---------------------|-------------------------|
| Number of TX : | 2            | Ant. :              | 2                       |
| Test Mode :    | 802.11n HT20 | Temperature :       | 21~25°C                 |
| Test Band :    | 2.4GHz Low   | Relative Humidity : | 51~54%                  |
| Test Channel : | 01           | Test Engineer :     | Tommy Lee and Luffy Lin |

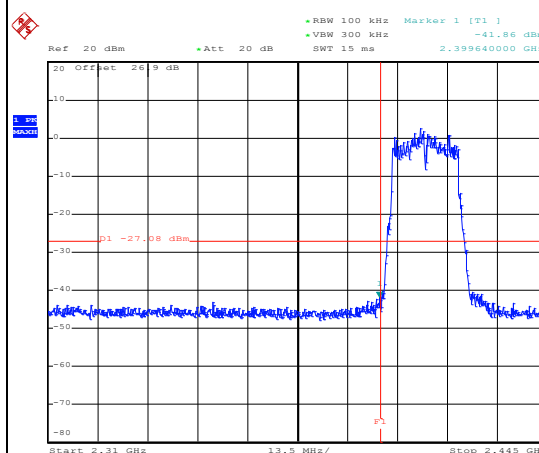
## WLAN 802.11n HT20 Channel 01

## 100kHz PSD reference Level



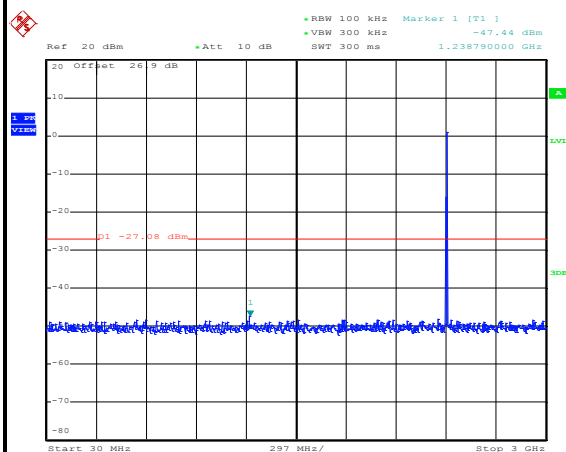
Date: 7.JUL.2016 02:17:40

## Low Channel Plot



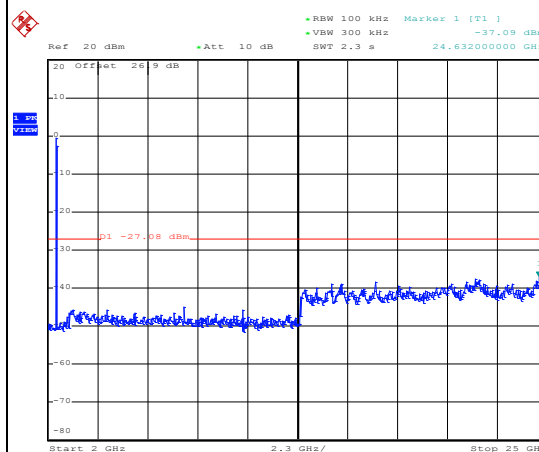
Date: 7.JUL.2016 02:18:05

## Spurious Emission 30MHz~3GHz



Date: 7.JUL.2016 02:18:22

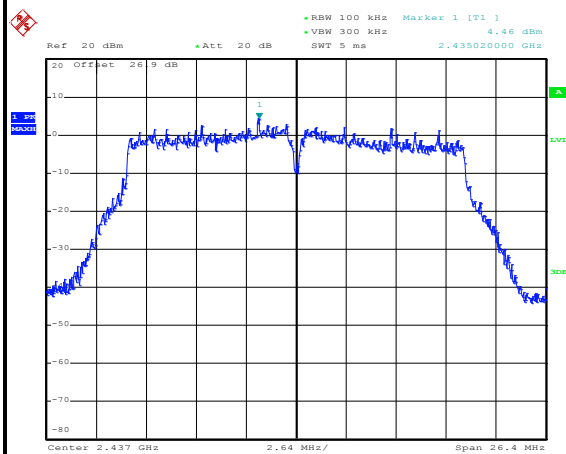
## Spurious Emission 2GHz~25GHz



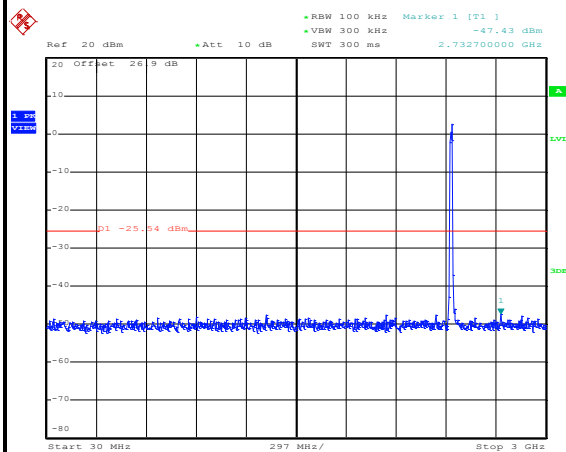
Date: 7.JUL.2016 02:18:31



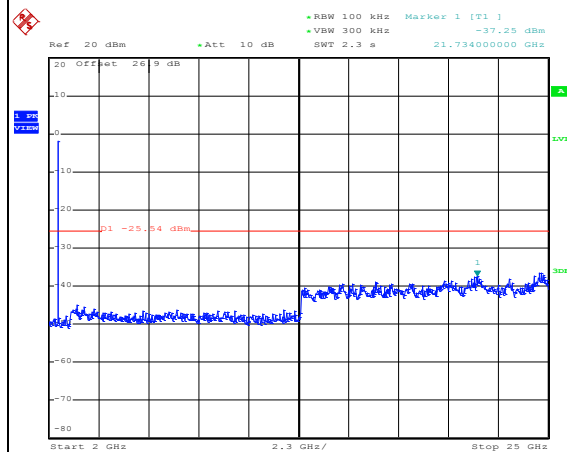
|                |              |                     |                         |
|----------------|--------------|---------------------|-------------------------|
| Number of TX : | 2            | Ant. :              | 2                       |
| Test Mode :    | 802.11n HT20 | Temperature :       | 21~25°C                 |
| Test Band :    | 2.4GHz Mid   | Relative Humidity : | 51~54%                  |
| Test Channel : | 06           | Test Engineer :     | Tommy Lee and Luffy Lin |

**WLAN 802.11n HT20 Channel 06****100kHz PSD reference Level**

Date: 7.JUL.2016 02:44:01

**Spurious Emission 30MHz~3GHz**

Date: 7.JUL.2016 02:46:45

**Spurious Emission 2GHz~25GHz**

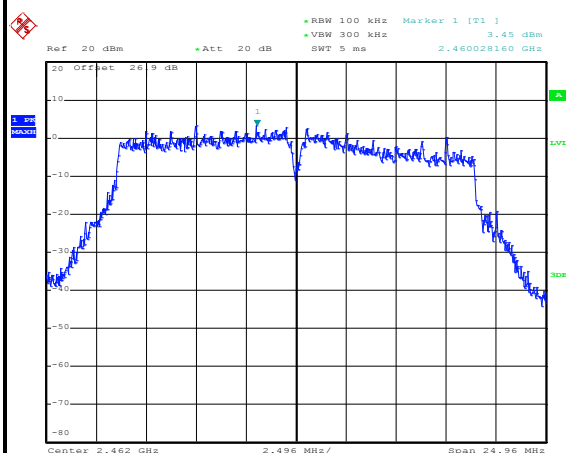
Date: 7.JUL.2016 02:49:18



|                |              |                     |                         |
|----------------|--------------|---------------------|-------------------------|
| Number of TX : | 2            | Ant. :              | 2                       |
| Test Mode :    | 802.11n HT20 | Temperature :       | 21~25°C                 |
| Test Band :    | 2.4GHz High  | Relative Humidity : | 51~54%                  |
| Test Channel : | 11           | Test Engineer :     | Tommy Lee and Luffy Lin |

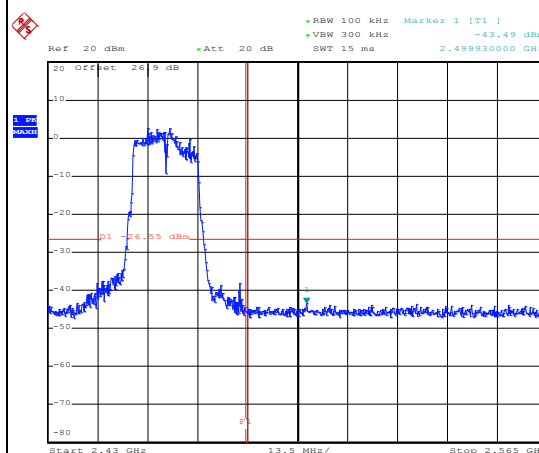
## WLAN 802.11n HT20 Channel 11

## 100kHz PSD reference Level



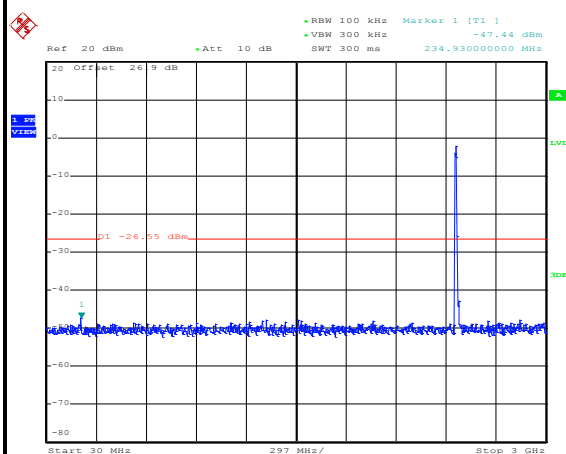
Date: 7.JUL.2016 03:12:00

## High Channel Plot



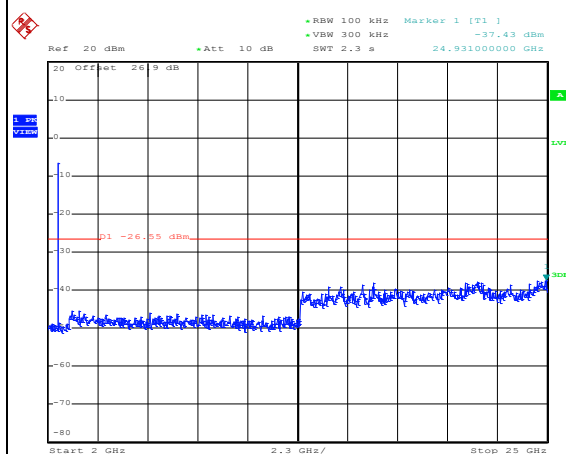
Date: 7.JUL.2016 03:12:45

## Spurious Emission 30MHz~3GHz



Date: 7.JUL.2016 03:13:12

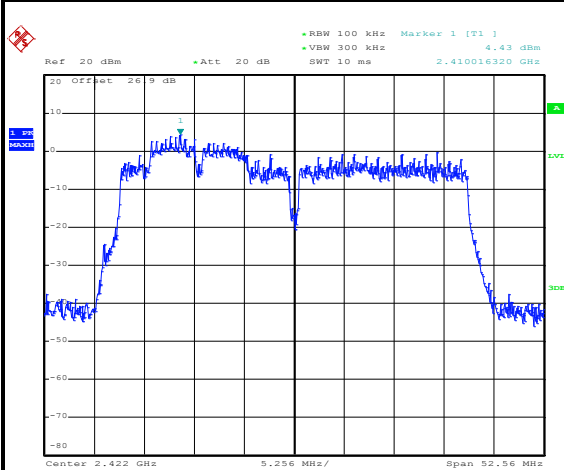
## Spurious Emission 2GHz~25GHz



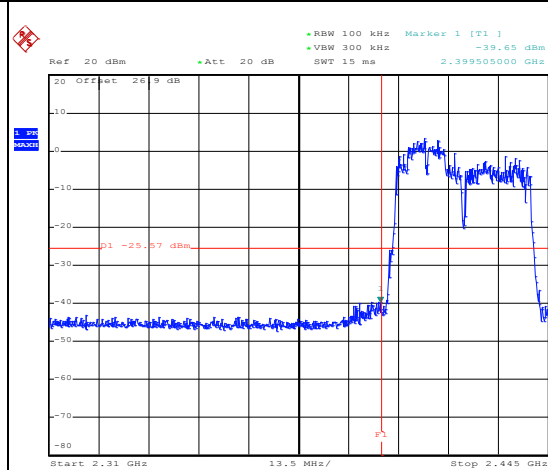
Date: 7.JUL.2016 03:13:45



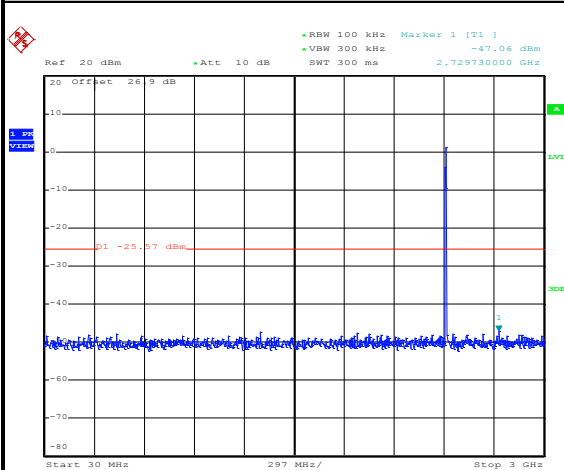
|                |              |                     |                         |
|----------------|--------------|---------------------|-------------------------|
| Number of TX : | 2            | Ant. :              | 2                       |
| Test Mode :    | 802.11n HT40 | Temperature :       | 21~25°C                 |
| Test Band :    | 2.4GHz Low   | Relative Humidity : | 51~54%                  |
| Test Channel : | 03           | Test Engineer :     | Tommy Lee and Luffy Lin |

**WLAN 802.11n HT40 Channel 03****100kHz PSD reference Level**

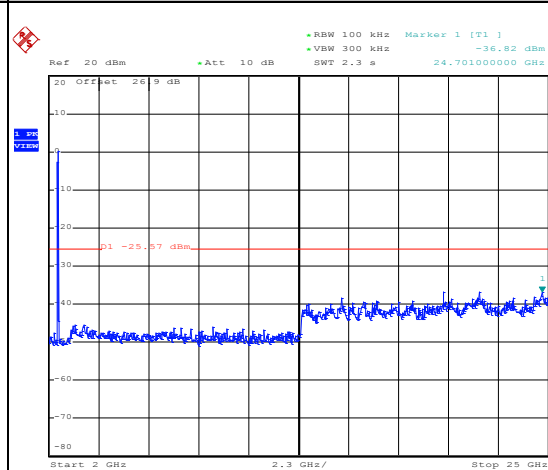
Date: 7.JUL.2016 03:52:44

**Low Channel Plot**

Date: 7.JUL.2016 03:53:58

**Spurious Emission 30MHz~3GHz**

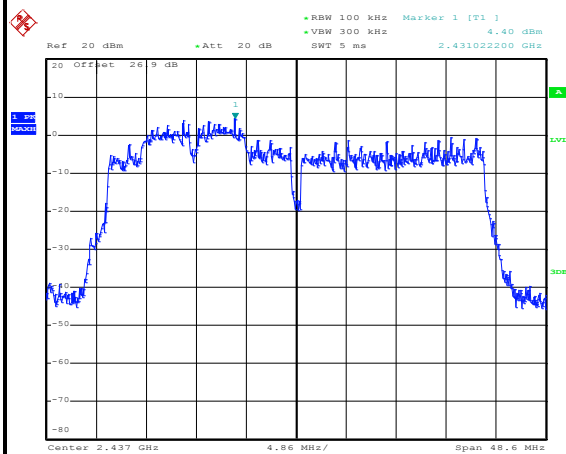
Date: 7.JUL.2016 03:54:43

**Spurious Emission 2GHz~25GHz**

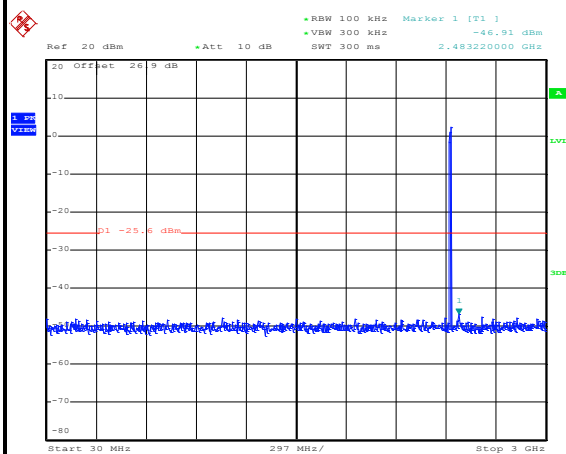
Date: 7.JUL.2016 03:56:25



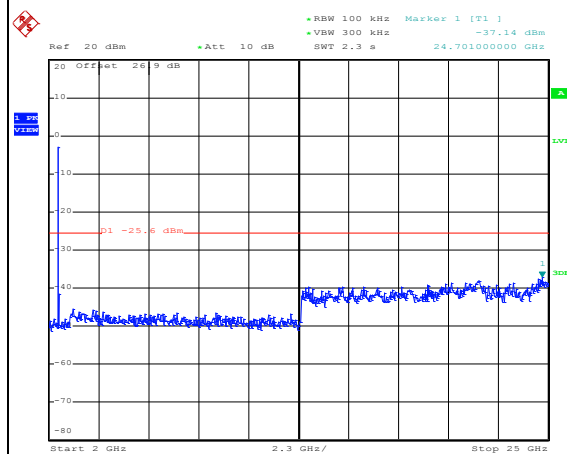
|                |              |                     |                         |
|----------------|--------------|---------------------|-------------------------|
| Number of TX : | 2            | Ant. :              | 2                       |
| Test Mode :    | 802.11n HT40 | Temperature :       | 21~25°C                 |
| Test Band :    | 2.4GHz Mid   | Relative Humidity : | 51~54%                  |
| Test Channel : | 06           | Test Engineer :     | Tommy Lee and Luffy Lin |

**WLAN 802.11n HT40 Channel 06****100kHz PSD reference Level**

Date: 7.JUL.2016 04:40:59

**Spurious Emission 30MHz~3GHz**

Date: 7.JUL.2016 04:42:22

**Spurious Emission 2GHz~25GHz**

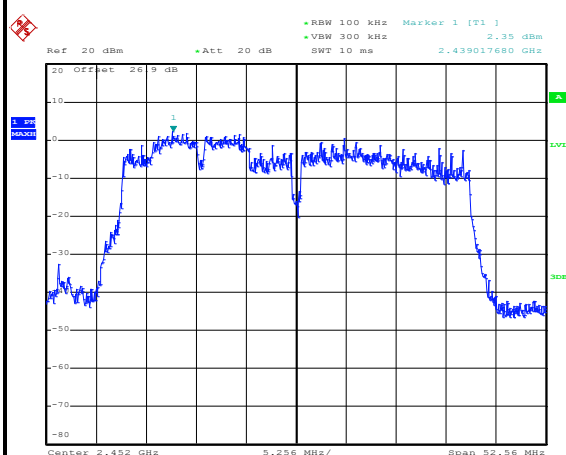
Date: 7.JUL.2016 04:42:31



|                |              |                     |                         |
|----------------|--------------|---------------------|-------------------------|
| Number of TX : | 2            | Ant. :              | 2                       |
| Test Mode :    | 802.11n HT40 | Temperature :       | 21~25°C                 |
| Test Band :    | 2.4GHz High  | Relative Humidity : | 51~54%                  |
| Test Channel : | 09           | Test Engineer :     | Tommy Lee and Luffy Lin |

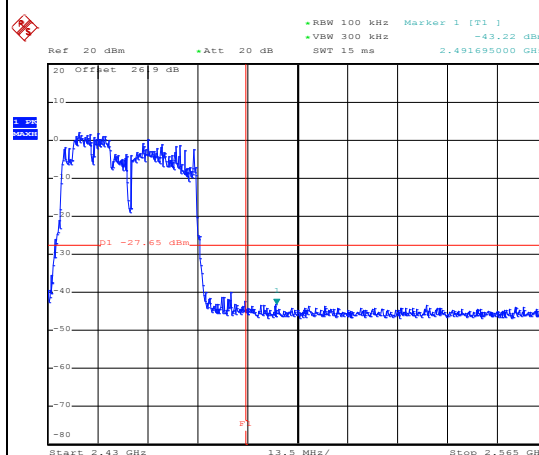
## WLAN 802.11n HT40 Channel 09

## 100kHz PSD reference Level



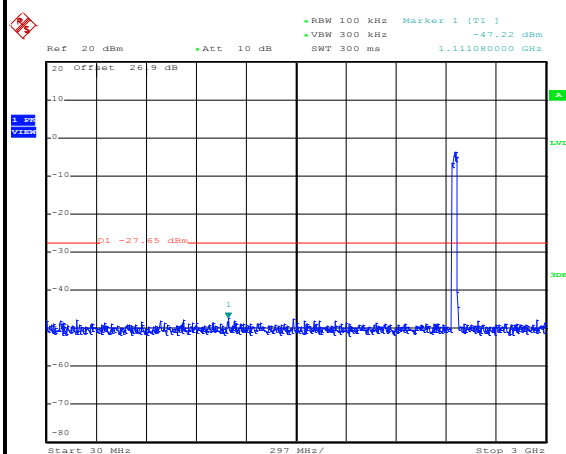
Date: 7.JUL.2016 05:18:40

## High Channel Plot



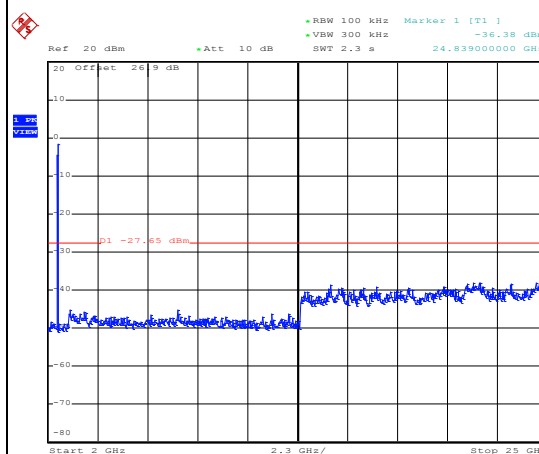
Date: 7.JUL.2016 05:20:38

## Spurious Emission 30MHz~3GHz



Date: 7.JUL.2016 05:26:06

## Spurious Emission 2GHz~25GHz



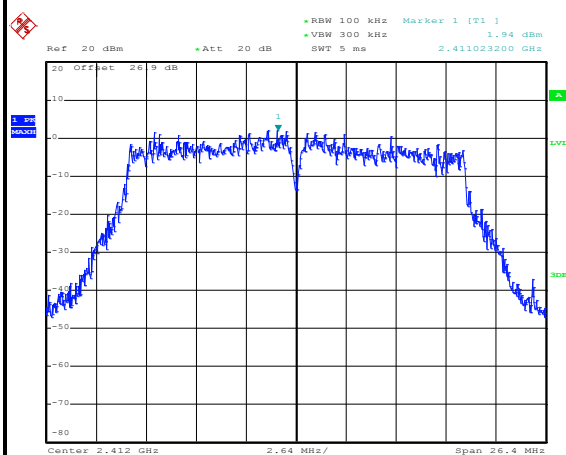
Date: 7.JUL.2016 05:23:56



|                |                |                     |                         |
|----------------|----------------|---------------------|-------------------------|
| Number of TX : | 2              | Ant. :              | 2                       |
| Test Mode :    | 802.11ac VHT20 | Temperature :       | 21~25°C                 |
| Test Band :    | 2.4GHz Low     | Relative Humidity : | 51~54%                  |
| Test Channel : | 01             | Test Engineer :     | Tommy Lee and Luffy Lin |

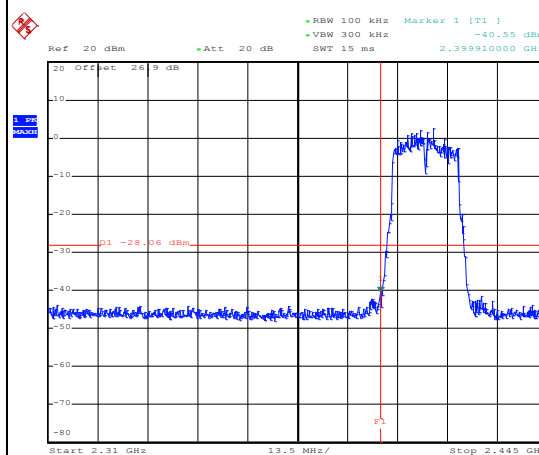
## WLAN 802.11ac VHT20 Channel 01

## 100kHz PSD reference Level



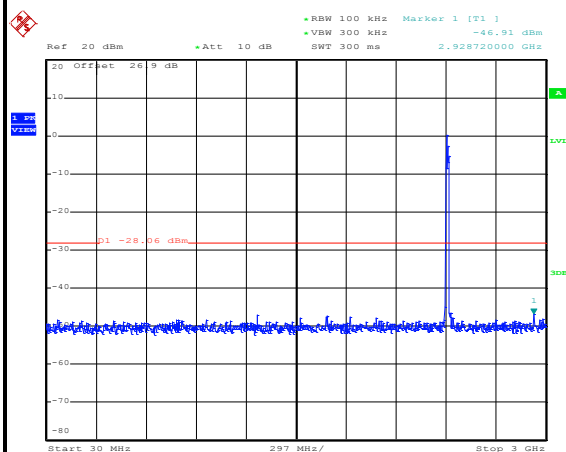
Date: 7.JUL.2016 14:47:42

## Low Channel Plot



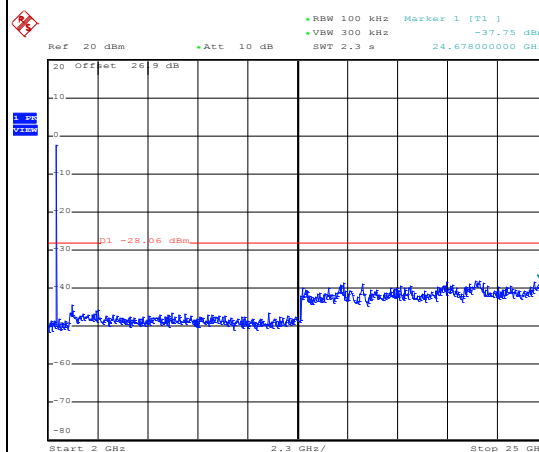
Date: 7.JUL.2016 14:48:29

## Spurious Emission 30MHz~3GHz



Date: 7.JUL.2016 14:49:12

## Spurious Emission 2GHz~25GHz



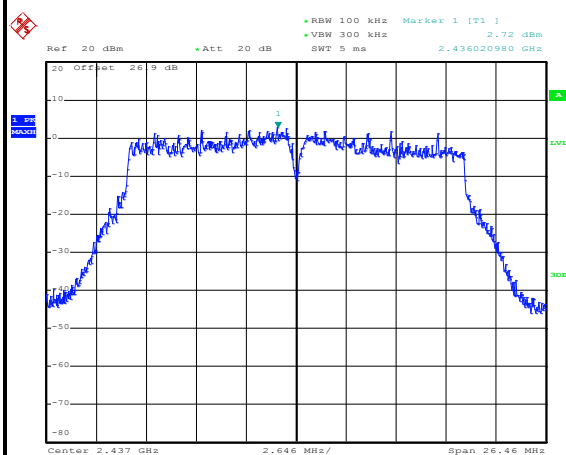
Date: 7.JUL.2016 14:49:21



|                |                |                     |                         |
|----------------|----------------|---------------------|-------------------------|
| Number of TX : | 2              | Ant. :              | 2                       |
| Test Mode :    | 802.11ac VHT20 | Temperature :       | 21~25°C                 |
| Test Band :    | 2.4GHz Mid     | Relative Humidity : | 51~54%                  |
| Test Channel : | 06             | Test Engineer :     | Tommy Lee and Luffy Lin |

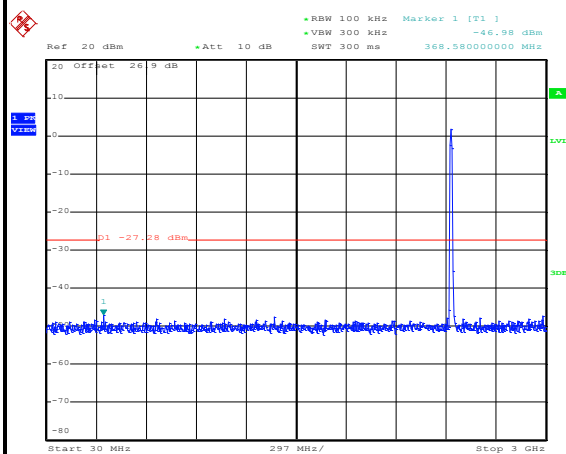
## WLAN 802.11ac VHT20 Channel 06

## 100kHz PSD reference Level



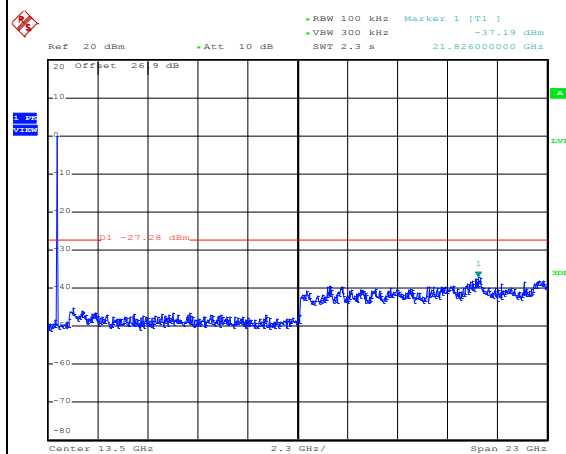
Date: 7.JUL.2016 14:14:30

## Spurious Emission 30MHz~3GHz



Date: 7.JUL.2016 14:18:55

## Spurious Emission 2GHz~25GHz



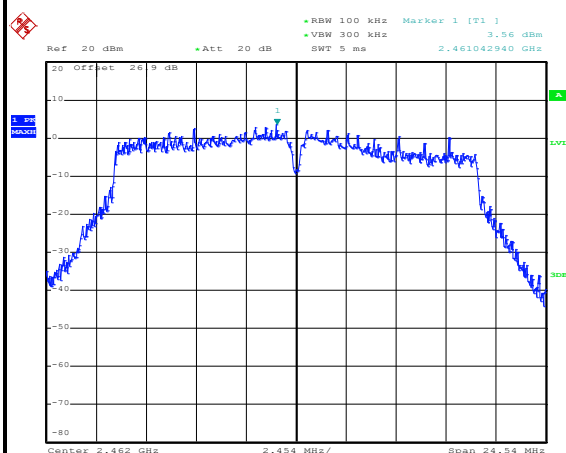
Date: 7.JUL.2016 19:56:29



|                |                |                     |                         |
|----------------|----------------|---------------------|-------------------------|
| Number of TX : | 2              | Ant. :              | 2                       |
| Test Mode :    | 802.11ac VHT20 | Temperature :       | 21~25°C                 |
| Test Band :    | 2.4GHz High    | Relative Humidity : | 51~54%                  |
| Test Channel : | 11             | Test Engineer :     | Tommy Lee and Luffy Lin |

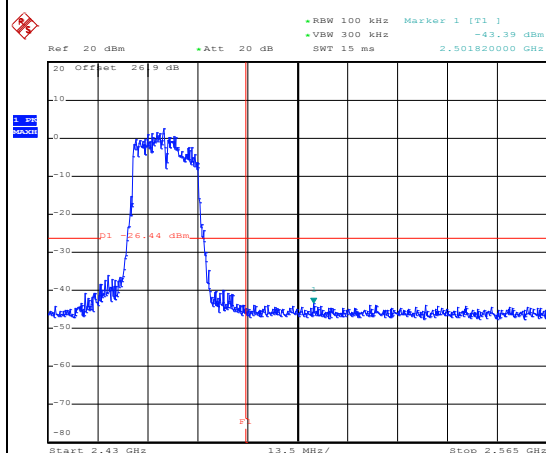
## WLAN 802.11ac VHT20 Channel 11

## 100kHz PSD reference Level



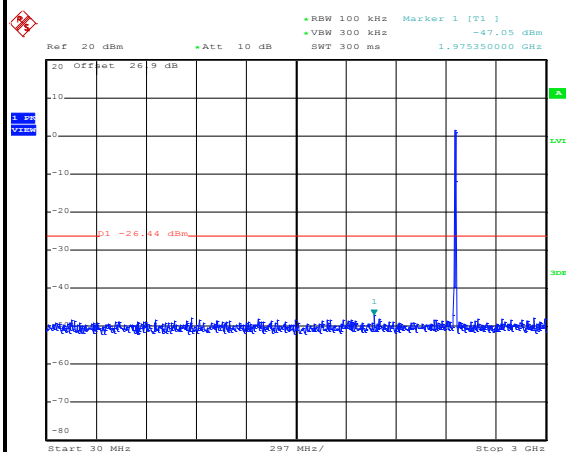
Date: 7.JUL.2016 15:57:36

## High Channel Plot



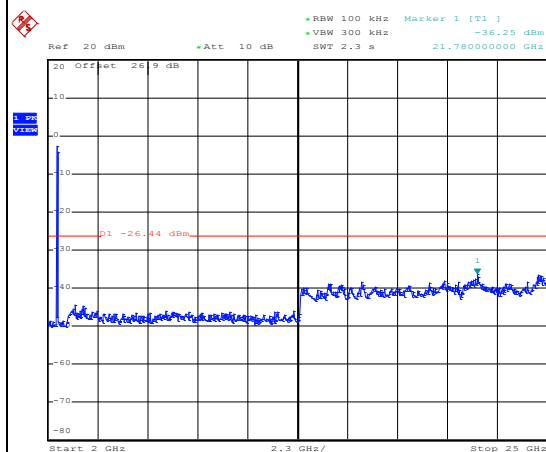
Date: 7.JUL.2016 15:58:50

## Spurious Emission 30MHz~3GHz



Date: 7.JUL.2016 15:59:11

## Spurious Emission 2GHz~25GHz



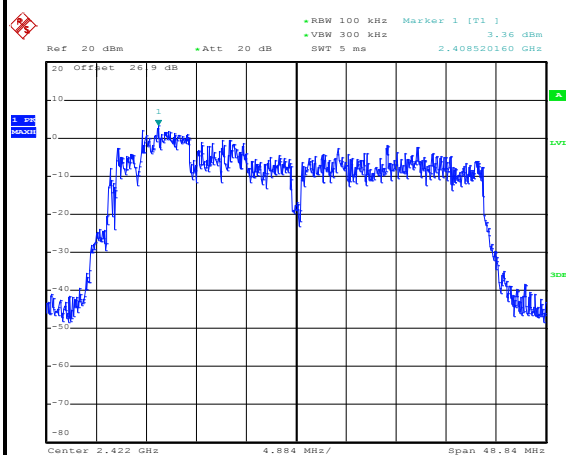
Date: 7.JUL.2016 20:02:32



|                |                |                     |                         |
|----------------|----------------|---------------------|-------------------------|
| Number of TX : | 2              | Ant. :              | 2                       |
| Test Mode :    | 802.11ac VHT40 | Temperature :       | 21~25°C                 |
| Test Band :    | 2.4GHz Low     | Relative Humidity : | 51~54%                  |
| Test Channel : | 03             | Test Engineer :     | Tommy Lee and Luffy Lin |

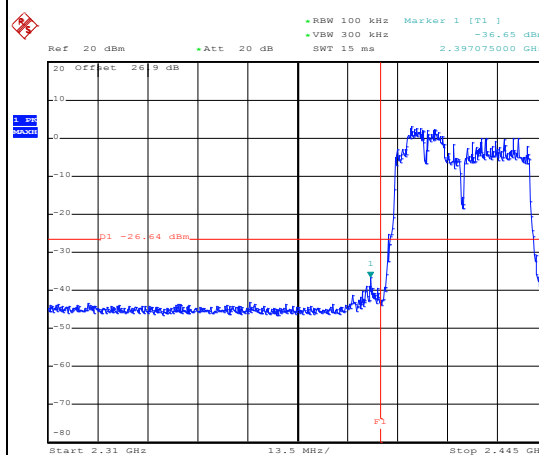
## WLAN 802.11ac VHT40 Channel 03

## 100kHz PSD reference Level



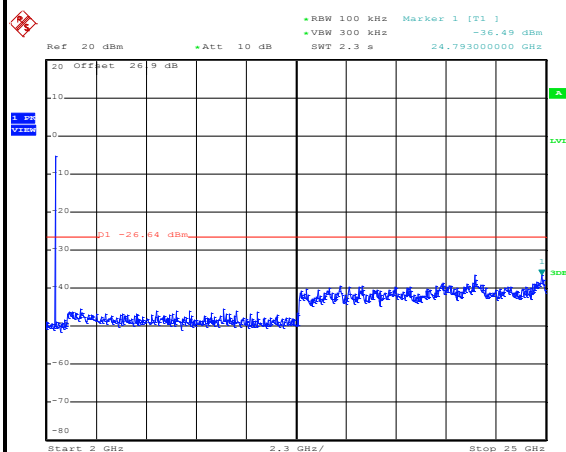
Date: 7.JUL.2016 17:08:45

## Low Channel Plot



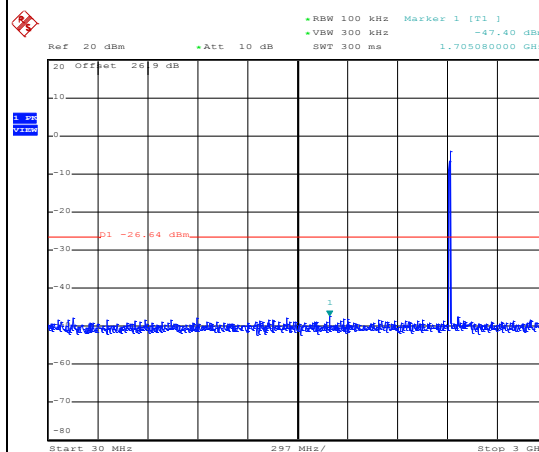
Date: 7.JUL.2016 17:10:06

## Spurious Emission 30MHz~3GHz



Date: 7.JUL.2016 17:10:58

## Spurious Emission 2GHz~25GHz



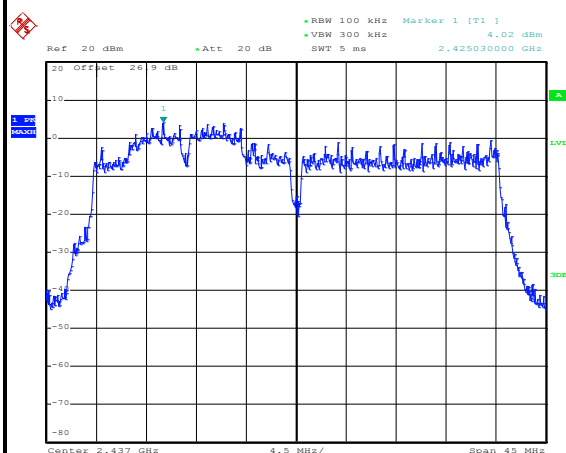
Date: 7.JUL.2016 17:10:49



|                |                |                     |                         |
|----------------|----------------|---------------------|-------------------------|
| Number of TX : | 2              | Ant. :              | 2                       |
| Test Mode :    | 802.11ac VHT40 | Temperature :       | 21~25°C                 |
| Test Band :    | 2.4GHz Mid     | Relative Humidity : | 51~54%                  |
| Test Channel : | 06             | Test Engineer :     | Tommy Lee and Luffy Lin |

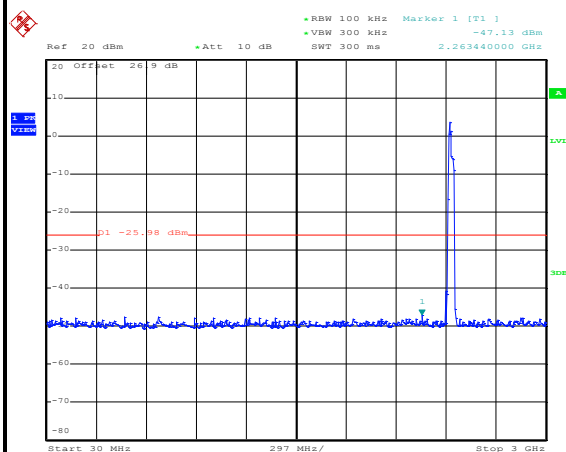
## WLAN 802.11ac VHT40 Channel 06

## 100kHz PSD reference Level



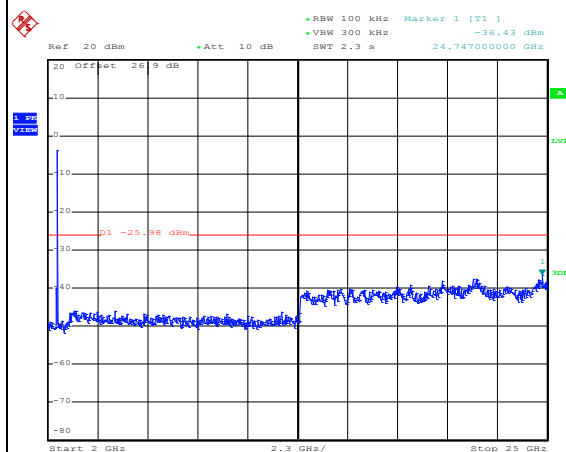
Date: 7.JUL.2016 17:36:51

## Spurious Emission 30MHz~3GHz



Date: 7.JUL.2016 19:19:21

## Spurious Emission 2GHz~25GHz



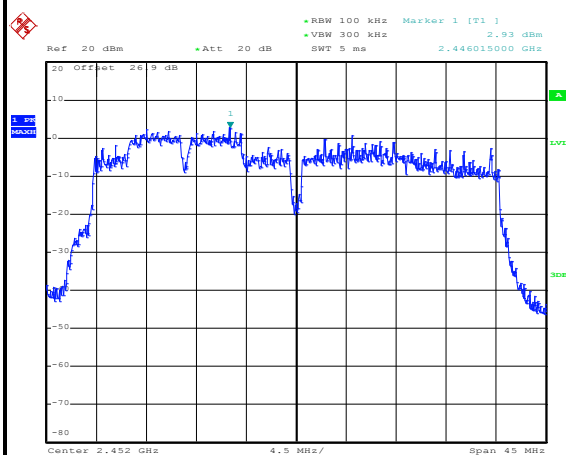
Date: 7.JUL.2016 19:16:29



|                |                |                     |                         |
|----------------|----------------|---------------------|-------------------------|
| Number of TX : | 2              | Ant. :              | 2                       |
| Test Mode :    | 802.11ac VHT40 | Temperature :       | 21~25°C                 |
| Test Band :    | 2.4GHz High    | Relative Humidity : | 51~54%                  |
| Test Channel : | 09             | Test Engineer :     | Tommy Lee and Luffy Lin |

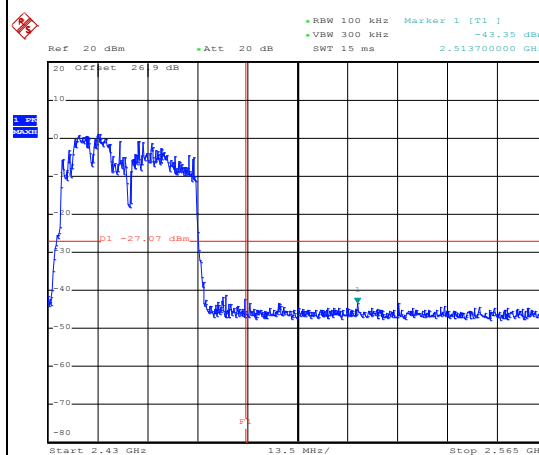
## WLAN 802.11ac VHT40 Channel 09

## 100kHz PSD reference Level



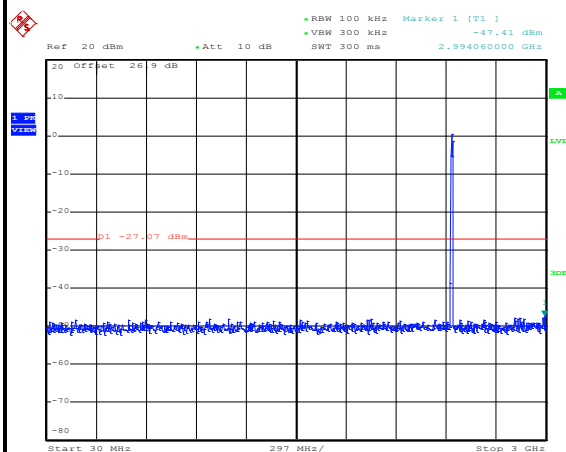
Date: 7.JUL.2016 18:15:04

## High Channel Plot



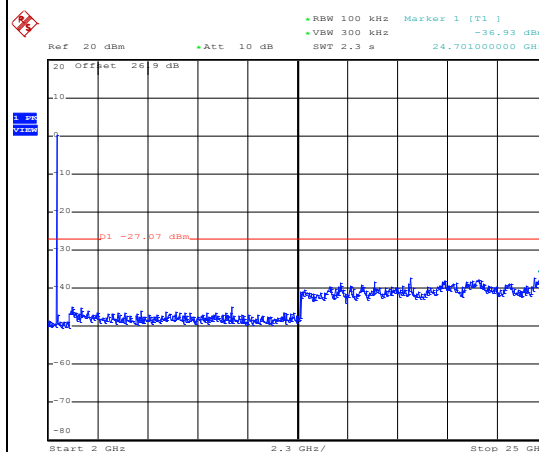
Date: 7.JUL.2016 18:15:24

## Spurious Emission 30MHz~3GHz



Date: 7.JUL.2016 18:19:46

## Spurious Emission 2GHz~25GHz



Date: 7.JUL.2016 19:12:44



### 3.5 Radiated Band Edges and Spurious Emission Measurement

#### 3.5.1 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                                |

#### 3.5.2 Measuring Instruments

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

### 3.5.3 Test Procedure

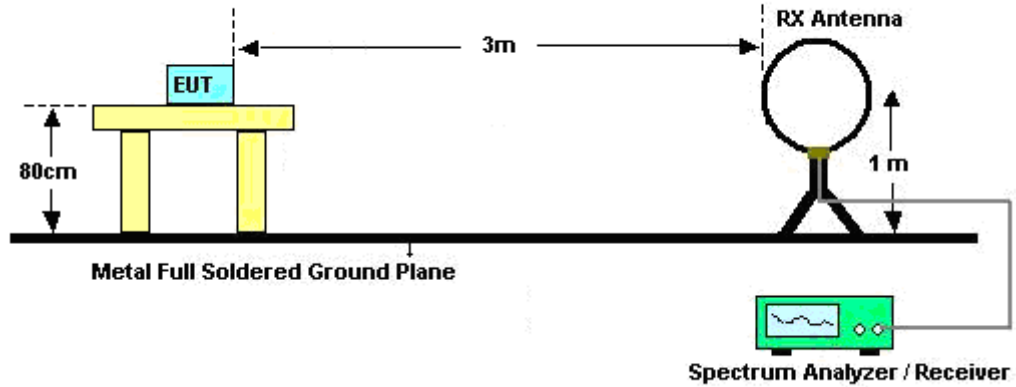
1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r05.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the 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:

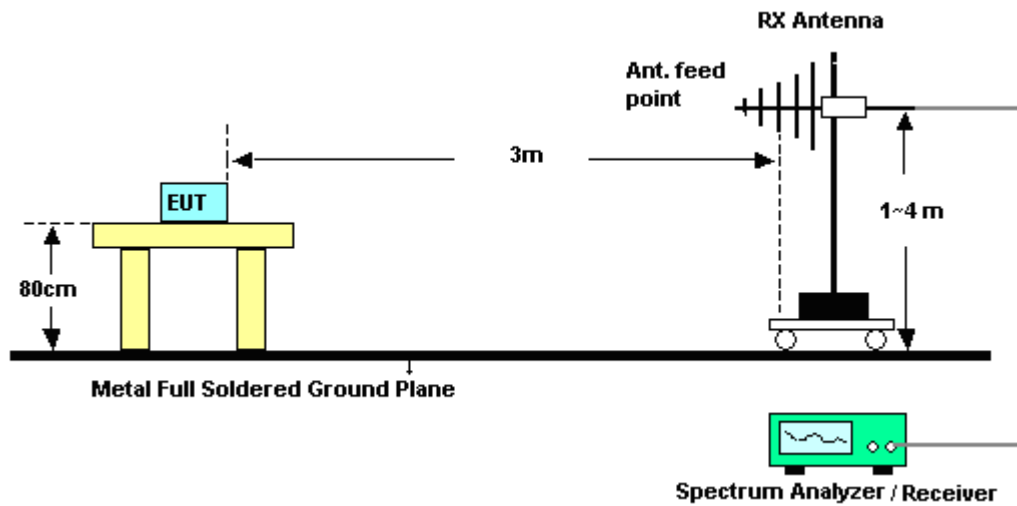
    - VBW = 10 Hz, when duty cycle is no less than 98 percent.
    - VBW  $\geq 1/T$ , when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

### 3.5.4 Test Setup

For radiated emissions below 30MHz

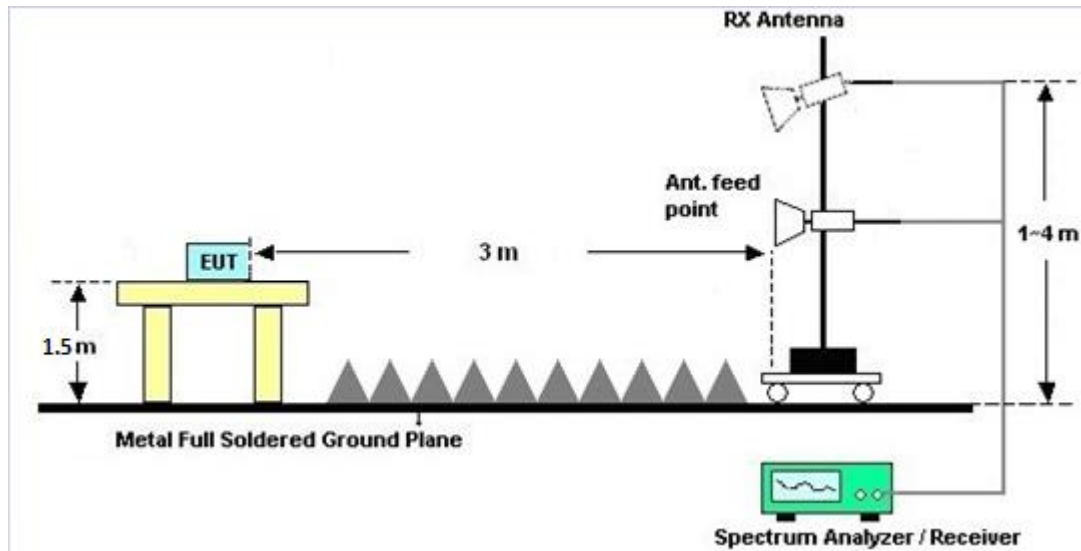


For radiated emissions from 30MHz to 1GHz

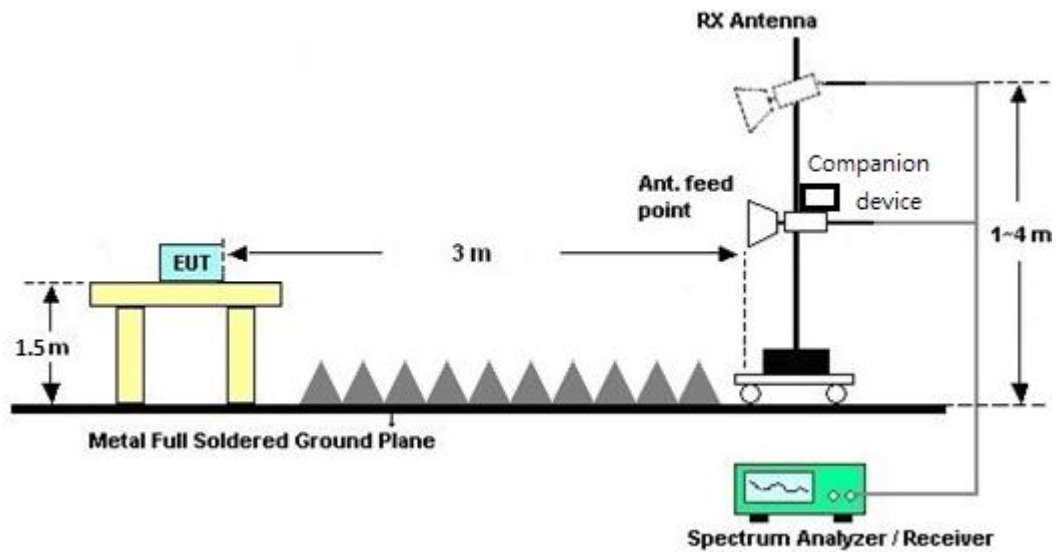


For radiated emissions above 1GHz

Non-TXBF mode



TXBF mode





### **3.5.5 Test Results of Radiated 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.

### **3.5.6 Test Result of Radiated Spurious at Band Edges**

Please refer to Appendix B and C of this test report.

### **3.5.7 Duty Cycle**

Please refer to Appendix D.

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

Please refer to Appendix B and C of this test report.

## 3.6 AC Conducted Emission Measurement

### 3.6.1 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.

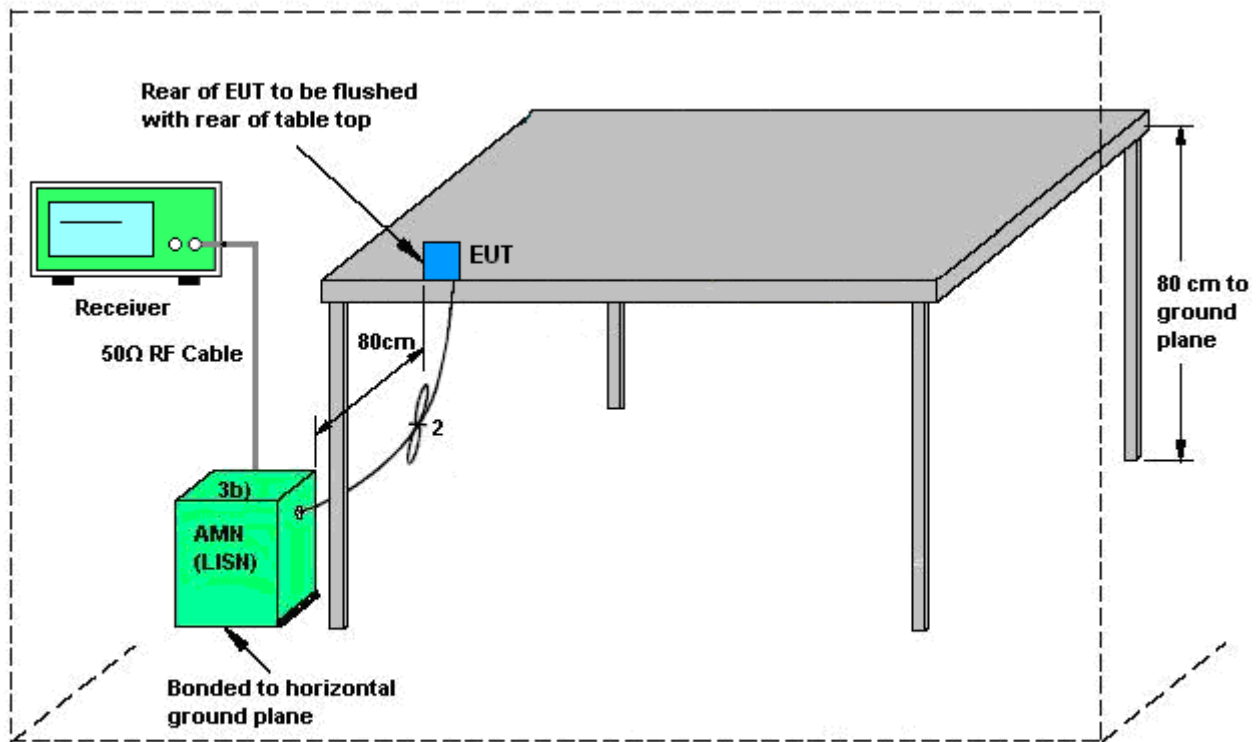
### 3.6.2 Measuring Instruments

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

### 3.6.3 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.

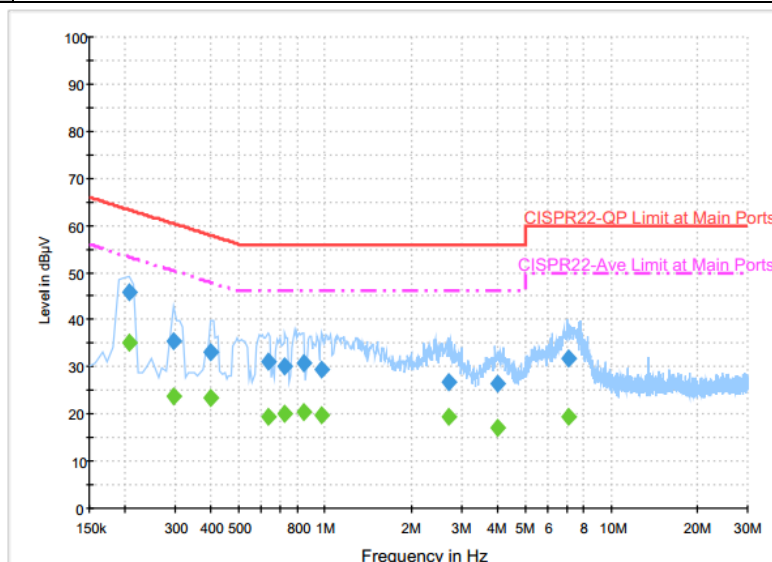
### 3.6.4 Test Setup



AMN = Artificial mains network (LISN)  
 AE = Associated equipment  
 EUT = Equipment under test  
 ISN = Impedance stabilization network

### 3.6.5 Test Result of AC Conducted Emission

|                        |                                                                                                 |                            |         |
|------------------------|-------------------------------------------------------------------------------------------------|----------------------------|---------|
| <b>Test Mode :</b>     | Mode 1                                                                                          | <b>Temperature :</b>       | 25~26°C |
| <b>Test Engineer :</b> | Arthur Hsieh                                                                                    | <b>Relative Humidity :</b> | 54~55%  |
| <b>Test Voltage :</b>  | 120Vac / 60Hz                                                                                   | <b>Phase :</b>             | Line    |
| <b>Function Type :</b> | Bluetooth Link + WLAN (2.4GHz) Link + Battery + Earphone + USB Cable<br>(Charging from Adapter) |                            |         |



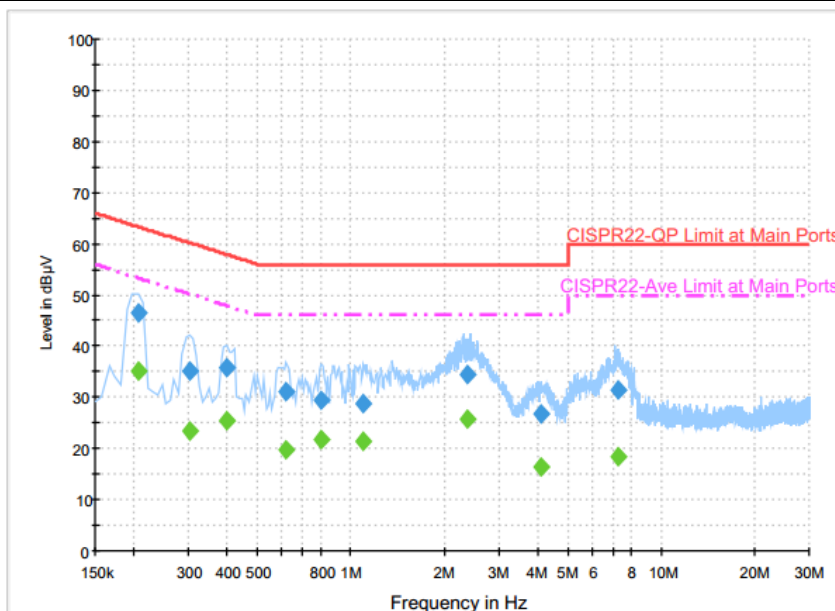
#### Final Result : Quasi-Peak

| Frequency (MHz) | Quasi-Peak (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|-------------------|--------|------|------------|-------------|--------------|
| 0.206000        | 45.8              | Off    | L1   | 19.6       | 17.6        | 63.4         |
| 0.294000        | 35.5              | Off    | L1   | 19.6       | 24.9        | 60.4         |
| 0.398000        | 33.1              | Off    | L1   | 19.6       | 24.8        | 57.9         |
| 0.630000        | 31.2              | Off    | L1   | 19.6       | 24.8        | 56.0         |
| 0.726000        | 30.0              | Off    | L1   | 19.6       | 26.0        | 56.0         |
| 0.846000        | 30.9              | Off    | L1   | 19.6       | 25.1        | 56.0         |
| 0.974000        | 29.3              | Off    | L1   | 19.7       | 26.7        | 56.0         |
| 2.702000        | 26.8              | Off    | L1   | 19.7       | 29.2        | 56.0         |
| 4.022000        | 26.5              | Off    | L1   | 19.8       | 29.5        | 56.0         |
| 7.102000        | 31.9              | Off    | L1   | 19.9       | 28.1        | 60.0         |

#### Final Result : Average

| Frequency (MHz) | Average (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.206000        | 35.1           | Off    | L1   | 19.6       | 18.3        | 53.4         |
| 0.294000        | 23.9           | Off    | L1   | 19.6       | 26.5        | 50.4         |
| 0.398000        | 23.4           | Off    | L1   | 19.6       | 24.5        | 47.9         |
| 0.630000        | 19.5           | Off    | L1   | 19.6       | 26.5        | 46.0         |
| 0.726000        | 20.2           | Off    | L1   | 19.6       | 25.8        | 46.0         |
| 0.846000        | 20.3           | Off    | L1   | 19.6       | 25.7        | 46.0         |
| 0.974000        | 19.8           | Off    | L1   | 19.7       | 26.2        | 46.0         |
| 2.702000        | 19.2           | Off    | L1   | 19.7       | 26.8        | 46.0         |
| 4.022000        | 16.9           | Off    | L1   | 19.8       | 29.1        | 46.0         |
| 7.102000        | 19.5           | Off    | L1   | 19.9       | 30.5        | 50.0         |

|                        |                                                                                                 |                            |         |
|------------------------|-------------------------------------------------------------------------------------------------|----------------------------|---------|
| <b>Test Mode :</b>     | Mode 1                                                                                          | <b>Temperature :</b>       | 25~26°C |
| <b>Test Engineer :</b> | Arthur Hsieh                                                                                    | <b>Relative Humidity :</b> | 54~55%  |
| <b>Test Voltage :</b>  | 120Vac / 60Hz                                                                                   | <b>Phase :</b>             | Neutral |
| <b>Function Type :</b> | Bluetooth Link + WLAN (2.4GHz) Link + Battery + Earphone + USB Cable<br>(Charging from Adapter) |                            |         |


**Final Result : Quasi-Peak**

| Frequency (MHz) | Quasi-Peak (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|-------------------|--------|------|------------|-------------|--------------|
| 0.206000        | 46.6              | Off    | N    | 19.6       | 16.8        | 63.4         |
| 0.302000        | 35.2              | Off    | N    | 19.6       | 25.0        | 60.2         |
| 0.398000        | 35.8              | Off    | N    | 19.6       | 22.1        | 57.9         |
| 0.622000        | 31.1              | Off    | N    | 19.6       | 24.9        | 56.0         |
| 0.806000        | 29.4              | Off    | N    | 19.6       | 26.6        | 56.0         |
| 1.102000        | 28.9              | Off    | N    | 19.6       | 27.1        | 56.0         |
| 2.374000        | 34.6              | Off    | N    | 19.6       | 21.4        | 56.0         |
| 4.126000        | 26.7              | Off    | N    | 19.8       | 29.3        | 56.0         |
| 7.302000        | 31.4              | Off    | N    | 19.9       | 28.6        | 60.0         |

**Final Result : Average**

| Frequency (MHz) | Average (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.206000        | 35.2           | Off    | N    | 19.6       | 18.2        | 53.4         |
| 0.302000        | 23.5           | Off    | N    | 19.6       | 26.7        | 50.2         |
| 0.398000        | 25.4           | Off    | N    | 19.6       | 22.5        | 47.9         |
| 0.622000        | 19.7           | Off    | N    | 19.6       | 26.3        | 46.0         |
| 0.806000        | 21.6           | Off    | N    | 19.6       | 24.4        | 46.0         |
| 1.102000        | 21.3           | Off    | N    | 19.6       | 24.7        | 46.0         |
| 2.374000        | 25.6           | Off    | N    | 19.6       | 20.4        | 46.0         |
| 4.126000        | 16.4           | Off    | N    | 19.8       | 29.6        | 46.0         |
| 7.302000        | 18.5           | Off    | N    | 19.9       | 31.5        | 50.0         |



## 3.7 Antenna Requirements

### 3.7.1 Standard Applicable

If directional gain of transmitting Antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the Antenna exceeds 6 dBi. The use of a permanently attached Antenna or of an Antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the FCC rule.

### 3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

### 3.7.3 Antenna Gain

#### Non-TXBF Modes

FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain "DG" is calculated as following table.

|         |        |        | DG    | DG    | Power     | PSD       |
|---------|--------|--------|-------|-------|-----------|-----------|
|         |        |        | for   | for   | Limit     | Limit     |
|         | Ant. 1 | Ant. 2 | Power | PSD   | Reduction | Reduction |
|         | (dBi)  | (dBi)  | (dBi) | (dBi) | (dB)      | (dB)      |
| 2.4 GHz | 1.90   | 1.10   | 1.90  | 4.52  | 0.00      | 0.00      |

$Power\ Limit\ Reduction = DG(Power) - 6dBi, (min = 0)$

$PSD\ Limit\ Reduction = DG(PSD) - 6dBi, (min = 0)$

**TXBF Modes**

FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

For beamforming transmissions, directional gain is calculated as

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

$N_{SS}$  = the number of independent spatial streams of data;

$N_{ANT}$  = the total number of antennas

$g_{j,k} = 10^{G_k / 20}$  if the  $k$ th antenna is being fed by spatial stream  $j$ , or zero if it is not;  
 $G_k$  is the gain in dBi of the  $k$ th antenna.

The EUT supports beamforming.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain "DG" is calculated as following table.

|         |        |        | DG    | DG    | Power     | PSD       |
|---------|--------|--------|-------|-------|-----------|-----------|
|         |        |        | for   | for   | Limit     | Limit     |
|         | Ant. 1 | Ant. 2 | Power | PSD   | Reduction | Reduction |
|         | (dBi)  | (dBi)  | (dBi) | (dBi) | (dB)      | (dB)      |
| 2.4 GHz | 1.90   | 1.10   | 4.52  | 4.52  | 0.00      | 0.00      |

Power Limit Reduction = DG(Power) – 6dBi, ( min = 0 )

PSD Limit Reduction = DG(PSD) – 6dBi, ( min = 0 )



## 4 List of Measuring Equipment

| Instrument                | Manufacturer    | Model No.               | Serial No.     | Characteristics | Calibration Date | Test Date                     | Due Date      | Remark                |
|---------------------------|-----------------|-------------------------|----------------|-----------------|------------------|-------------------------------|---------------|-----------------------|
| Power Meter               | Anritsu         | ML2495A                 | 1132003        | 300MHz~40GHz    | Aug. 12, 2015    | Jun. 17, 2016 ~ Jul. 19, 2016 | Aug. 11, 2016 | Conducted (TH05-HY)   |
| Power Sensor              | Anritsu         | MA2411B                 | 1126017        | 300MHz~40GHz    | Aug. 12, 2015    | Jun. 17, 2016 ~ Jul. 19, 2016 | Aug. 11, 2016 | Conducted (TH05-HY)   |
| Power Sensor              | DARE            | RadiPower               | 15I00041S NO09 | 10MHz~6GHz      | May. 03, 2016    | Jun. 17, 2016 ~ Jul. 19, 2016 | May. 02, 2017 | Conducted (TH05-HY)   |
| Power Sensor              | DARE            | RadiPower               | 15I00041S NO10 | 10MHz~6GHz      | May. 03, 2016    | Jun. 17, 2016 ~ Jul. 19, 2016 | May. 02, 2017 | Conducted (TH05-HY)   |
| Spectrum Analyzer         | Rohde & Schwarz | FSP40                   | 100057         | 9kHz-40GHz      | Nov. 23, 2015    | Jun. 17, 2016 ~ Jul. 19, 2016 | Nov. 22, 2016 | Conducted (TH05-HY)   |
| Spectrum Analyzer         | Rohde & Schwarz | FSV40                   | 101397         | 10kHz-40GHz     | Sep. 11, 2015    | Jun. 17, 2016 ~ Jul. 19, 2016 | Sep. 10, 2016 | Conducted (TH05-HY)   |
| Bilog Antenna             | TESEQ           | CBL 6111D               | 35419          | 30MHz to 1GHz   | Jan. 13, 2016    | Jun. 22, 2016 ~ Jul. 16, 2016 | Jan. 12, 2017 | Radiation (03CH07-HY) |
| Double Ridge Horn Antenna | ESCO            | 3117                    | 00075962       | 1GHz ~ 18GHz    | Aug. 21, 2015    | Jun. 22, 2016 ~ Jul. 16, 2016 | Aug. 20, 2016 | Radiation (03CH07-HY) |
| EMI Test Receiver         | Keysight        | N9038A(MXE)             | MY541300 85    | 20Hz ~ 8.4GHz   | Nov. 04, 2015    | Jun. 22, 2016 ~ Jul. 16, 2016 | Nov. 03, 2016 | Radiation (03CH07-HY) |
| Loop Antenna              | Rohde & Schwarz | HFH2-Z2                 | 100315         | 9 kHz~30 MHz    | Sep. 02, 2015    | Jun. 22, 2016 ~ Jul. 16, 2016 | Sep. 01, 2016 | Radiation (03CH07-HY) |
| Preamplifier              | MITEQ           | AMF-7D-00101 800-30-10P | 1590075        | 1GHz ~ 18GHz    | Apr. 15, 2016    | Jun. 22, 2016 ~ Jul. 16, 2016 | Apr. 14, 2017 | Radiation (03CH07-HY) |
| Preamplifier              | COM-POWER       | PA-103A                 | 161241         | 10MHz-1GHz      | Mar. 18, 2016    | Jun. 22, 2016 ~ Jul. 16, 2016 | Mar. 17, 2017 | Radiation (03CH07-HY) |
| Preamplifier              | Agilent         | 8449B                   | 3008A023 62    | 1GHz~ 26.5GHz   | Oct. 19, 2015    | Jun. 22, 2016 ~ Jul. 16, 2016 | Oct. 18, 2016 | Radiation (03CH07-HY) |
| Spectrum Analyzer         | Agilent         | N9010A                  | MY534701 18    | 10Hz~44GHz      | Feb. 27, 2016    | Jun. 22, 2016 ~ Jul. 16, 2016 | Feb. 26, 2017 | Radiation (03CH07-HY) |
| Antenna Mast              | Max-Full        | MFA520BS                | N/A            | 1m~4m           | N/A              | Jun. 22, 2016 ~ Jul. 16, 2016 | N/A           | Radiation (03CH07-HY) |
| Turn Table                | ChainTek        | Chaintek 3000           | N/A            | 0~360 Degree    | N/A              | Jun. 22, 2016 ~ Jul. 16, 2016 | N/A           | Radiation (03CH07-HY) |
| Preamplifier              | MITEQ           | TTA0204                 | 1872107        | 2GHz~40GHz      | Feb. 15, 2015    | Jun. 22, 2016 ~ Jul. 16, 2016 | Feb. 14, 2017 | Radiation (03CH07-HY) |
| SHF-EHF Horn Antenna      | SCHWARZBECK     | BBHA 9170               | BBHA9170 584   | 18GHz- 40GHz    | Nov. 02, 2015    | Jun. 22, 2016 ~ Jul. 16, 2016 | Nov. 01, 2016 | Radiation (03CH07-HY) |
| AC Power Source           | ChainTek        | APC-1000W               | N/A            | N/A             | N/A              | Jun. 13, 2016                 | N/A           | Conduction (CO05-HY)  |
| EMI Test Receiver         | Rohde & Schwarz | ESCI 7                  | 100724         | 9kHz~7GHz       | Aug. 26, 2015    | Jun. 13, 2016                 | Aug. 25, 2016 | Conduction (CO05-HY)  |
| LISN                      | Rohde & Schwarz | ENV216                  | 100080         | 9kHz~30MHz      | Dec. 02, 2015    | Jun. 13, 2016                 | Dec. 01, 2016 | Conduction (CO05-HY)  |



## 5 Uncertainty of Evaluation

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

|                                                                         |      |
|-------------------------------------------------------------------------|------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 2.26 |
|-------------------------------------------------------------------------|------|

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

|                                                                         |      |
|-------------------------------------------------------------------------|------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 4.50 |
|-------------------------------------------------------------------------|------|



## **Appendix A. Conducted Test Results**

**< Non-TXBF Modes>**

Report Number : FR650305C

|                |                       |                    |       |    |
|----------------|-----------------------|--------------------|-------|----|
| Test Engineer: | Kenny Chen            | Temperature:       | 21~25 | °C |
| Test Date:     | 2016/06/17~2016/07/19 | Relative Humidity: | 51~54 | %  |

**TEST RESULTS DATA**  
**6dB and 99% Occupied Bandwidth**

| 2.4GHz Band |           |     |     |             |                       |       |              |       |                    |           |
|-------------|-----------|-----|-----|-------------|-----------------------|-------|--------------|-------|--------------------|-----------|
| Mod.        | Data Rate | NTx | CH. | Freq. (MHz) | 99% Occupied BW (MHz) |       | 6dB BW (MHz) |       | 6dB BW Limit (MHz) | Pass/Fail |
|             |           |     |     |             | Ant 1                 | Ant 2 | Ant 1        | Ant 2 |                    |           |
| 11b         | 1Mbps     | 1   | 1   | 2412        |                       | 11.75 |              | 9.04  | 0.50               | Pass      |
| 11b         | 1Mbps     | 1   | 6   | 2437        |                       | 11.80 |              | 9.04  | 0.50               | Pass      |
| 11b         | 1Mbps     | 1   | 11  | 2462        |                       | 11.75 |              | 8.56  | 0.50               | Pass      |
| 11g         | 6Mbps     | 1   | 1   | 2412        |                       | 18.30 |              | 16.32 | 0.50               | Pass      |
| 11g         | 6Mbps     | 1   | 6   | 2437        |                       | 18.35 |              | 16.32 | 0.50               | Pass      |
| 11g         | 6Mbps     | 1   | 11  | 2462        |                       | 18.25 |              | 16.28 | 0.50               | Pass      |
| HT20        | MCS0      | 1   | 1   | 2412        |                       | 18.95 |              | 17.60 | 0.50               | Pass      |
| HT20        | MCS0      | 1   | 6   | 2437        |                       | 19.00 |              | 17.56 | 0.50               | Pass      |
| HT20        | MCS0      | 1   | 11  | 2462        |                       | 18.90 |              | 16.92 | 0.50               | Pass      |
| HT40        | MCS0      | 1   | 3   | 2422        |                       | 36.70 |              | 36.32 | 0.50               | Pass      |
| HT40        | MCS0      | 1   | 6   | 2437        |                       | 36.70 |              | 36.32 | 0.50               | Pass      |
| HT40        | MCS0      | 1   | 9   | 2452        |                       | 36.50 |              | 35.36 | 0.50               | Pass      |
| VHT20       | MCS0      | 1   | 1   | 2412        |                       | 18.85 |              | 17.56 | 0.50               | Pass      |
| VHT20       | MCS0      | 1   | 6   | 2437        |                       | 19.25 |              | 17.56 | 0.50               | Pass      |
| VHT20       | MCS0      | 1   | 11  | 2462        |                       | 19.00 |              | 17.20 | 0.50               | Pass      |
| VHT40       | MCS0      | 1   | 3   | 2422        |                       | 36.60 |              | 36.32 | 0.50               | Pass      |
| VHT40       | MCS0      | 1   | 6   | 2437        |                       | 37.00 |              | 36.32 | 0.50               | Pass      |
| VHT40       | MCS0      | 1   | 9   | 2452        |                       | 36.50 |              | 35.36 | 0.50               | Pass      |
| 11b         | 1Mbps     | 2   | 1   | 2412        | 11.65                 | 11.75 | 8.58         | 9.06  | 0.50               | Pass      |
| 11b         | 1Mbps     | 2   | 6   | 2437        | 11.70                 | 11.80 | 8.56         | 9.04  | 0.50               | Pass      |
| 11b         | 1Mbps     | 2   | 11  | 2462        | 11.60                 | 11.70 | 8.52         | 8.52  | 0.50               | Pass      |
| 11g         | 6Mbps     | 2   | 1   | 2412        | 18.45                 | 18.25 | 16.32        | 16.36 | 0.50               | Pass      |
| 11g         | 6Mbps     | 2   | 6   | 2437        | 18.35                 | 18.05 | 16.32        | 16.36 | 0.50               | Pass      |
| 11g         | 6Mbps     | 2   | 11  | 2462        | 18.45                 | 17.95 | 16.28        | 15.72 | 0.50               | Pass      |
| HT20        | MCS0      | 2   | 1   | 2412        | 19.05                 | 18.95 | 17.56        | 17.60 | 0.50               | Pass      |
| HT20        | MCS0      | 2   | 6   | 2437        | 19.10                 | 19.10 | 17.60        | 17.60 | 0.50               | Pass      |
| HT20        | MCS0      | 2   | 11  | 2462        | 18.90                 | 18.70 | 17.28        | 17.56 | 0.50               | Pass      |
| HT40        | MCS0      | 2   | 3   | 2422        | 36.70                 | 36.70 | 36.32        | 36.32 | 0.50               | Pass      |
| HT40        | MCS0      | 2   | 6   | 2437        | 36.90                 | 36.90 | 36.32        | 36.00 | 0.50               | Pass      |
| HT40        | MCS0      | 2   | 9   | 2452        | 36.50                 | 36.50 | 35.60        | 35.92 | 0.50               | Pass      |
| VHT20       | MCS0      | 2   | 1   | 2412        | 18.85                 | 18.85 | 17.56        | 17.60 | 0.50               | Pass      |
| VHT20       | MCS0      | 2   | 6   | 2437        | 19.15                 | 19.05 | 17.60        | 17.62 | 0.50               | Pass      |
| VHT20       | MCS0      | 2   | 11  | 2462        | 18.80                 | 18.75 | 17.52        | 17.56 | 0.50               | Pass      |
| VHT40       | MCS0      | 2   | 3   | 2422        | 36.70                 | 36.70 | 36.08        | 36.32 | 0.50               | Pass      |
| VHT40       | MCS0      | 2   | 6   | 2437        | 36.90                 | 36.90 | 36.32        | 36.32 | 0.50               | Pass      |
| VHT40       | MCS0      | 2   | 9   | 2452        | 36.60                 | 36.40 | 35.68        | 36.00 | 0.50               | Pass      |

**TEST RESULTS DATA**  
**Peak Output Power**

| 2.4GHz Band |           |     |     |             |                            |       |       |          |       |                  |       |
|-------------|-----------|-----|-----|-------------|----------------------------|-------|-------|----------|-------|------------------|-------|
| Mod.        | Data Rate | NTX | CH. | Freq. (MHz) | Peak Conducted Power (dBm) |       |       | DG (dBi) |       | EIRP Power (dBm) |       |
|             |           |     |     |             | Ant 1                      | Ant 2 | SUM   | Ant 1    | Ant 2 | Ant 1            | Ant 2 |
| 11b         | 1Mbps     | 1   | 1   | 2412        | 16.48                      | 18.65 |       | 1.90     | 1.10  | 18.38            | 19.75 |
| 11b         | 1Mbps     | 1   | 6   | 2437        | 16.72                      | 18.82 |       | 1.90     | 1.10  | 18.62            | 19.92 |
| 11b         | 1Mbps     | 1   | 11  | 2462        | 16.38                      | 18.78 |       | 1.90     | 1.10  | 18.28            | 19.88 |
| 11g         | 6Mbps     | 1   | 1   | 2412        | 20.45                      | 21.89 |       | 1.90     | 1.10  | 22.35            | 22.99 |
| 11g         | 6Mbps     | 1   | 6   | 2437        | 20.49                      | 21.92 |       | 1.90     | 1.10  | 22.39            | 23.02 |
| 11g         | 6Mbps     | 1   | 11  | 2462        | 20.42                      | 21.78 |       | 1.90     | 1.10  | 22.32            | 22.88 |
| HT20        | MCS0      | 1   | 1   | 2412        | 20.78                      | 21.92 |       | 1.90     | 1.10  | 22.68            | 23.02 |
| HT20        | MCS0      | 1   | 6   | 2437        | 20.88                      | 22.05 |       | 1.90     | 1.10  | 22.78            | 23.15 |
| HT20        | MCS0      | 1   | 11  | 2462        | 20.83                      | 21.90 |       | 1.90     | 1.10  | 22.73            | 23.00 |
| HT40        | MCS0      | 1   | 3   | 2422        | 20.37                      | 22.16 |       | 1.90     | 1.10  | 22.27            | 23.26 |
| HT40        | MCS0      | 1   | 6   | 2437        | 20.66                      | 22.29 |       | 1.90     | 1.10  | 22.56            | 23.39 |
| HT40        | MCS0      | 1   | 9   | 2452        | 20.61                      | 21.14 |       | 1.90     | 1.10  | 22.51            | 22.24 |
| VHT20       | MCS0      | 1   | 1   | 2412        | 20.98                      | 22.16 |       | 1.90     | 1.10  | 22.88            | 23.26 |
| VHT20       | MCS0      | 1   | 6   | 2437        | 21.03                      | 22.19 |       | 1.90     | 1.10  | 22.93            | 23.29 |
| VHT20       | MCS0      | 1   | 11  | 2462        | 21.00                      | 22.10 |       | 1.90     | 1.10  | 22.90            | 23.20 |
| VHT40       | MCS0      | 1   | 3   | 2422        | 20.96                      | 22.43 |       | 1.90     | 1.10  | 22.86            | 23.53 |
| VHT40       | MCS0      | 1   | 6   | 2437        | 21.03                      | 22.56 |       | 1.90     | 1.10  | 22.93            | 23.66 |
| VHT40       | MCS0      | 1   | 9   | 2452        | 21.59                      | 21.29 |       | 1.90     | 1.10  | 23.49            | 22.39 |
| 11b         | 1Mbps     | 2   | 1   | 2412        | 16.65                      | 16.90 | 19.79 | 1.90     |       | 21.69            |       |
| 11b         | 1Mbps     | 2   | 6   | 2437        | 16.81                      | 16.78 | 19.81 | 1.90     |       | 21.71            |       |
| 11b         | 1Mbps     | 2   | 11  | 2462        | 16.82                      | 16.72 | 19.78 | 1.90     |       | 21.68            |       |
| 11g         | 6Mbps     | 2   | 1   | 2412        | 20.40                      | 20.51 | 23.47 | 1.90     |       | 25.37            |       |
| 11g         | 6Mbps     | 2   | 6   | 2437        | 20.32                      | 20.61 | 23.48 | 1.90     |       | 25.38            |       |
| 11g         | 6Mbps     | 2   | 11  | 2462        | 20.62                      | 20.26 | 23.45 | 1.90     |       | 25.35            |       |
| HT20        | MCS0      | 2   | 1   | 2412        | 20.87                      | 20.83 | 23.86 | 1.90     |       | 25.76            |       |
| HT20        | MCS0      | 2   | 6   | 2437        | 20.92                      | 20.91 | 23.93 | 1.90     |       | 25.83            |       |
| HT20        | MCS0      | 2   | 11  | 2462        | 21.15                      | 20.50 | 23.85 | 1.90     |       | 25.75            |       |
| HT40        | MCS0      | 2   | 3   | 2422        | 20.81                      | 20.90 | 23.87 | 1.90     |       | 25.77            |       |
| HT40        | MCS0      | 2   | 6   | 2437        | 20.91                      | 20.89 | 23.91 | 1.90     |       | 25.81            |       |
| HT40        | MCS0      | 2   | 9   | 2452        | 21.03                      | 20.67 | 23.86 | 1.90     |       | 25.76            |       |
| VHT20       | MCS0      | 2   | 1   | 2412        | 21.03                      | 20.81 | 23.93 | 1.90     |       | 25.83            |       |
| VHT20       | MCS0      | 2   | 6   | 2437        | 20.92                      | 21.02 | 23.98 | 1.90     |       | 25.88            |       |
| VHT20       | MCS0      | 2   | 11  | 2462        | 21.00                      | 20.76 | 23.89 | 1.90     |       | 25.79            |       |
| VHT40       | MCS0      | 2   | 3   | 2422        | 20.99                      | 20.76 | 23.89 | 1.90     |       | 25.79            |       |
| VHT40       | MCS0      | 2   | 6   | 2437        | 21.03                      | 20.88 | 23.97 | 1.90     |       | 25.87            |       |
| VHT40       | MCS0      | 2   | 9   | 2452        | 21.00                      | 21.07 | 24.05 | 1.90     |       | 25.95            |       |

Note: Measured power (dBm) has offset with cable loss.

**TEST RESULTS DATA**  
**Average Output Power**

| 2.4GHz Band |           |                 |     |             |                  |       |                               |       |       |                             |       |          |       |                  |       |                        |       |            |
|-------------|-----------|-----------------|-----|-------------|------------------|-------|-------------------------------|-------|-------|-----------------------------|-------|----------|-------|------------------|-------|------------------------|-------|------------|
| Mod.        | Data Rate | N <sub>Tx</sub> | CH. | Freq. (MHz) | Duty Factor (dB) |       | Average Conducted Power (dBm) |       |       | Conducted Power Limit (dBm) |       | DG (dBi) |       | EIRP Power (dBm) |       | EIRP Power Limit (dBm) |       | Pass /Fail |
|             |           |                 |     |             | Ant 1            | Ant 2 | Ant 1                         | Ant 2 | SUM   | Ant 1                       | Ant 2 | Ant 1    | Ant 2 | Ant 1            | Ant 2 | Ant 1                  | Ant 2 |            |
| 11b         | 1Mbps     | 1               | 1   | 2412        | 0.06             | 0.06  | 13.11                         | 15.39 |       | 30.00                       | 30.00 | 1.90     | 1.10  | 15.01            | 16.49 | 36.00                  | 36.00 | Pass       |
| 11b         | 1Mbps     | 1               | 6   | 2437        | 0.06             | 0.06  | 13.24                         | 15.41 |       | 30.00                       | 30.00 | 1.90     | 1.10  | 15.14            | 16.51 | 36.00                  | 36.00 | Pass       |
| 11b         | 1Mbps     | 1               | 11  | 2462        | 0.06             | 0.06  | 13.05                         | 15.25 |       | 30.00                       | 30.00 | 1.90     | 1.10  | 14.95            | 16.35 | 36.00                  | 36.00 | Pass       |
| 11g         | 6Mbps     | 1               | 1   | 2412        | 0.35             | 0.35  | 13.39                         | 15.30 |       | 30.00                       | 30.00 | 1.90     | 1.10  | 15.29            | 16.40 | 36.00                  | 36.00 | Pass       |
| 11g         | 6Mbps     | 1               | 6   | 2437        | 0.35             | 0.35  | 13.41                         | 15.34 |       | 30.00                       | 30.00 | 1.90     | 1.10  | 15.31            | 16.44 | 36.00                  | 36.00 | Pass       |
| 11g         | 6Mbps     | 1               | 11  | 2462        | 0.35             | 0.35  | 13.33                         | 15.23 |       | 30.00                       | 30.00 | 1.90     | 1.10  | 15.23            | 16.33 | 36.00                  | 36.00 | Pass       |
| HT20        | MCS0      | 1               | 1   | 2412        | 0.31             | 0.31  | 13.26                         | 15.23 |       | 30.00                       | 30.00 | 1.90     | 1.10  | 15.16            | 16.33 | 36.00                  | 36.00 | Pass       |
| HT20        | MCS0      | 1               | 6   | 2437        | 0.31             | 0.31  | 13.32                         | 15.32 |       | 30.00                       | 30.00 | 1.90     | 1.10  | 15.22            | 16.42 | 36.00                  | 36.00 | Pass       |
| HT20        | MCS0      | 1               | 11  | 2462        | 0.31             | 0.31  | 13.28                         | 15.19 |       | 30.00                       | 30.00 | 1.90     | 1.10  | 15.18            | 16.29 | 36.00                  | 36.00 | Pass       |
| HT40        | MCS0      | 1               | 3   | 2422        | 0.67             | 0.67  | 13.18                         | 15.20 |       | 30.00                       | 30.00 | 1.90     | 1.10  | 15.08            | 16.30 | 36.00                  | 36.00 | Pass       |
| HT40        | MCS0      | 1               | 6   | 2437        | 0.67             | 0.67  | 13.32                         | 15.29 |       | 30.00                       | 30.00 | 1.90     | 1.10  | 15.22            | 16.39 | 36.00                  | 36.00 | Pass       |
| HT40        | MCS0      | 1               | 9   | 2452        | 0.67             | 0.67  | 13.22                         | 14.21 |       | 30.00                       | 30.00 | 1.90     | 1.10  | 15.12            | 15.31 | 36.00                  | 36.00 | Pass       |
| VHT20       | MCS0      | 1               | 1   | 2412        | 0.37             | 0.31  | 13.40                         | 15.38 |       | 30.00                       | 30.00 | 1.90     | 1.10  | 15.30            | 16.48 | 36.00                  | 36.00 | Pass       |
| VHT20       | MCS0      | 1               | 6   | 2437        | 0.37             | 0.31  | 13.46                         | 15.42 |       | 30.00                       | 30.00 | 1.90     | 1.10  | 15.36            | 16.52 | 36.00                  | 36.00 | Pass       |
| VHT20       | MCS0      | 1               | 11  | 2462        | 0.37             | 0.31  | 13.43                         | 15.30 |       | 30.00                       | 30.00 | 1.90     | 1.10  | 15.33            | 16.40 | 36.00                  | 36.00 | Pass       |
| VHT40       | MCS0      | 1               | 3   | 2422        | 0.66             | 0.67  | 13.25                         | 15.33 |       | 30.00                       | 30.00 | 1.90     | 1.10  | 15.15            | 16.43 | 36.00                  | 36.00 | Pass       |
| VHT40       | MCS0      | 1               | 6   | 2437        | 0.66             | 0.67  | 13.38                         | 15.43 |       | 30.00                       | 30.00 | 1.90     | 1.10  | 15.28            | 16.53 | 36.00                  | 36.00 | Pass       |
| VHT40       | MCS0      | 1               | 9   | 2452        | 0.66             | 0.67  | 13.23                         | 14.26 |       | 30.00                       | 30.00 | 1.90     | 1.10  | 15.13            | 15.36 | 36.00                  | 36.00 | Pass       |
| 11b         | 1Mbps     | 2               | 1   | 2412        | 0.06             | 0.06  | 13.28                         | 13.49 | 16.40 | 30.00                       |       | 1.90     |       | 18.30            |       | 36.00                  |       | Pass       |
| 11b         | 1Mbps     | 2               | 6   | 2437        | 0.06             | 0.06  | 13.46                         | 13.35 | 16.42 | 30.00                       |       | 1.90     |       | 18.32            |       | 36.00                  |       | Pass       |
| 11b         | 1Mbps     | 2               | 11  | 2462        | 0.06             | 0.06  | 13.44                         | 13.29 | 16.38 | 30.00                       |       | 1.90     |       | 18.28            |       | 36.00                  |       | Pass       |
| 11g         | 6Mbps     | 2               | 1   | 2412        | 0.35             | 0.35  | 13.42                         | 13.39 | 16.42 | 30.00                       |       | 1.90     |       | 18.32            |       | 36.00                  |       | Pass       |
| 11g         | 6Mbps     | 2               | 6   | 2437        | 0.35             | 0.35  | 13.28                         | 13.61 | 16.46 | 30.00                       |       | 1.90     |       | 18.36            |       | 36.00                  |       | Pass       |
| 11g         | 6Mbps     | 2               | 11  | 2462        | 0.35             | 0.35  | 13.60                         | 13.16 | 16.40 | 30.00                       |       | 1.90     |       | 18.30            |       | 36.00                  |       | Pass       |
| HT20        | MCS0      | 2               | 1   | 2412        | 0.31             | 0.31  | 13.32                         | 13.41 | 16.38 | 30.00                       |       | 1.90     |       | 18.28            |       | 36.00                  |       | Pass       |
| HT20        | MCS0      | 2               | 6   | 2437        | 0.31             | 0.31  | 13.29                         | 13.49 | 16.40 | 30.00                       |       | 1.90     |       | 18.30            |       | 36.00                  |       | Pass       |
| HT20        | MCS0      | 2               | 11  | 2462        | 0.31             | 0.31  | 13.40                         | 13.12 | 16.28 | 30.00                       |       | 1.90     |       | 18.18            |       | 36.00                  |       | Pass       |
| HT40        | MCS0      | 2               | 3   | 2422        | 0.67             | 0.67  | 13.20                         | 13.26 | 16.24 | 30.00                       |       | 1.90     |       | 18.14            |       | 36.00                  |       | Pass       |
| HT40        | MCS0      | 2               | 6   | 2437        | 0.67             | 0.67  | 13.27                         | 13.32 | 16.30 | 30.00                       |       | 1.90     |       | 18.20            |       | 36.00                  |       | Pass       |
| HT40        | MCS0      | 2               | 9   | 2452        | 0.67             | 0.67  | 13.10                         | 13.21 | 16.17 | 30.00                       |       | 1.90     |       | 18.07            |       | 36.00                  |       | Pass       |
| VHT20       | MCS0      | 2               | 1   | 2412        | 0.31             | 0.31  | 13.38                         | 13.46 | 16.43 | 30.00                       |       | 1.90     |       | 18.33            |       | 36.00                  |       | Pass       |
| VHT20       | MCS0      | 2               | 6   | 2437        | 0.31             | 0.31  | 13.37                         | 13.50 | 16.45 | 30.00                       |       | 1.90     |       | 18.35            |       | 36.00                  |       | Pass       |
| VHT20       | MCS0      | 2               | 11  | 2462        | 0.31             | 0.31  | 13.32                         | 13.24 | 16.29 | 30.00                       |       | 1.90     |       | 18.19            |       | 36.00                  |       | Pass       |
| VHT40       | MCS0      | 2               | 3   | 2422        | 0.66             | 0.67  | 13.30                         | 13.42 | 16.37 | 30.00                       |       | 1.90     |       | 18.27            |       | 36.00                  |       | Pass       |
| VHT40       | MCS0      | 2               | 6   | 2437        | 0.66             | 0.67  | 13.32                         | 13.45 | 16.40 | 30.00                       |       | 1.90     |       | 18.30            |       | 36.00                  |       | Pass       |
| VHT40       | MCS0      | 2               | 9   | 2452        | 0.66             | 0.67  | 13.14                         | 13.36 | 16.26 | 30.00                       |       | 1.90     |       | 18.16            |       | 36.00                  |       | Pass       |

Note: Measured power (dBm) has offset with cable loss.

**TEST RESULTS DATA**  
**Average Power Spectral Density**

| 2.4GHz Band |           |     |     |             |                  |      |                        |        |              |                                         |        |              |          |       |                              |       |           |
|-------------|-----------|-----|-----|-------------|------------------|------|------------------------|--------|--------------|-----------------------------------------|--------|--------------|----------|-------|------------------------------|-------|-----------|
| Mod.        | Data Rate | NTx | CH. | Freq. (MHz) | Duty Factor (dB) |      | Average PSD (dBm/3kHz) |        |              | Average PSD (dBm/3kHz With Duty Factor) |        |              | DG (dBi) |       | Average PSD Limit (dBm/3kHz) |       | Pass/Fail |
|             |           |     |     |             |                  |      | Ant 1                  | Ant 2  | Worse + 3.01 | Ant 1                                   | Ant 2  | Worse + 3.01 | Ant 1    | Ant 2 | Ant 1                        | Ant 2 |           |
| 11b         | 1Mbps     | 1   | 1   | 2412        | 0.06             | 0.06 |                        | -11.12 | -            |                                         | -11.06 | -            | 1.90     | 1.10  | 8.00                         | 8.00  | Pass      |
| 11b         | 1Mbps     | 1   | 6   | 2437        | 0.06             | 0.06 |                        | -11.04 | -            |                                         | -10.98 | -            | 1.90     | 1.10  | 8.00                         | 8.00  | Pass      |
| 11b         | 1Mbps     | 1   | 11  | 2462        | 0.06             | 0.06 |                        | -11.11 | -            |                                         | -11.05 | -            | 1.90     | 1.10  | 8.00                         | 8.00  | Pass      |
| 11g         | 6Mbps     | 1   | 1   | 2412        | 0.35             | 0.35 |                        | -12.11 | -            |                                         | -11.76 | -            | 1.90     | 1.10  | 8.00                         | 8.00  | Pass      |
| 11g         | 6Mbps     | 1   | 6   | 2437        | 0.35             | 0.35 |                        | -12.28 | -            |                                         | -11.93 | -            | 1.90     | 1.10  | 8.00                         | 8.00  | Pass      |
| 11g         | 6Mbps     | 1   | 11  | 2462        | 0.35             | 0.35 |                        | -11.91 | -            |                                         | -11.56 | -            | 1.90     | 1.10  | 8.00                         | 8.00  | Pass      |
| HT20        | MCS0      | 1   | 1   | 2412        | 0.31             | 0.31 |                        | -13.90 | -            |                                         | -13.59 | -            | 1.90     | 1.10  | 8.00                         | 8.00  | Pass      |
| HT20        | MCS0      | 1   | 6   | 2437        | 0.31             | 0.31 |                        | -13.95 | -            |                                         | -13.64 | -            | 1.90     | 1.10  | 8.00                         | 8.00  | Pass      |
| HT20        | MCS0      | 1   | 11  | 2462        | 0.31             | 0.31 |                        | -12.82 | -            |                                         | -12.51 | -            | 1.90     | 1.10  | 8.00                         | 8.00  | Pass      |
| HT40        | MCS0      | 1   | 3   | 2422        | 0.67             | 0.67 |                        | -17.31 | -            |                                         | -16.64 | -            | 1.90     | 1.10  | 8.00                         | 8.00  | Pass      |
| HT40        | MCS0      | 1   | 6   | 2437        | 0.67             | 0.67 |                        | -17.06 | -            |                                         | -16.39 | -            | 1.90     | 1.10  | 8.00                         | 8.00  | Pass      |
| HT40        | MCS0      | 1   | 9   | 2452        | 0.67             | 0.67 |                        | -14.10 | -            |                                         | -13.43 | -            | 1.90     | 1.10  | 8.00                         | 8.00  | Pass      |
| VHT20       | MCS0      | 1   | 1   | 2412        | 0.37             | 0.31 |                        | -12.75 | -            |                                         | -12.44 | -            | 1.90     | 1.10  | 8.00                         | 8.00  | Pass      |
| VHT20       | MCS0      | 1   | 6   | 2437        | 0.37             | 0.31 |                        | -13.73 | -            |                                         | -13.42 | -            | 1.90     | 1.10  | 8.00                         | 8.00  | Pass      |
| VHT20       | MCS0      | 1   | 11  | 2462        | 0.37             | 0.31 |                        | -13.59 | -            |                                         | -13.28 | -            | 1.90     | 1.10  | 8.00                         | 8.00  | Pass      |
| VHT40       | MCS0      | 1   | 3   | 2422        | 0.66             | 0.67 |                        | -15.99 | -            |                                         | -15.32 | -            | 1.90     | 1.10  | 8.00                         | 8.00  | Pass      |
| VHT40       | MCS0      | 1   | 6   | 2437        | 0.66             | 0.67 |                        | -16.03 | -            |                                         | -15.36 | -            | 1.90     | 1.10  | 8.00                         | 8.00  | Pass      |
| VHT40       | MCS0      | 1   | 9   | 2452        | 0.66             | 0.67 |                        | -13.86 | -            |                                         | -13.19 | -            | 1.90     | 1.10  | 8.00                         | 8.00  | Pass      |
| 11b         | 1Mbps     | 2   | 1   | 2412        | 0.06             | 0.06 | -12.60                 | -12.53 | -            | -12.54                                  | -12.47 | -9.46        | 4.52     |       | 8.00                         |       | Pass      |
| 11b         | 1Mbps     | 2   | 6   | 2437        | 0.06             | 0.06 | -12.37                 | -12.86 | -            | -12.31                                  | -12.80 | -9.30        | 4.52     |       | 8.00                         |       | Pass      |
| 11b         | 1Mbps     | 2   | 11  | 2462        | 0.06             | 0.06 | -12.61                 | -12.81 | -            | -12.55                                  | -12.75 | -9.54        | 4.52     |       | 8.00                         |       | Pass      |
| 11g         | 6Mbps     | 2   | 1   | 2412        | 0.35             | 0.35 | -13.46                 | -14.01 | -            | -13.11                                  | -13.66 | -10.10       | 4.52     |       | 8.00                         |       | Pass      |
| 11g         | 6Mbps     | 2   | 6   | 2437        | 0.35             | 0.35 | -14.37                 | -14.10 | -            | -14.02                                  | -13.75 | -10.74       | 4.52     |       | 8.00                         |       | Pass      |
| 11g         | 6Mbps     | 2   | 11  | 2462        | 0.35             | 0.35 | -13.41                 | -13.38 | -            | -13.06                                  | -13.03 | -10.02       | 4.52     |       | 8.00                         |       | Pass      |
| HT20        | MCS0      | 2   | 1   | 2412        | 0.31             | 0.31 | -15.07                 | -15.82 | -            | -14.76                                  | -15.51 | -11.75       | 4.52     |       | 8.00                         |       | Pass      |
| HT20        | MCS0      | 2   | 6   | 2437        | 0.31             | 0.31 | -15.95                 | -15.85 | -            | -15.64                                  | -15.54 | -12.53       | 4.52     |       | 8.00                         |       | Pass      |
| HT20        | MCS0      | 2   | 11  | 2462        | 0.31             | 0.31 | -15.47                 | -15.51 | -            | -15.16                                  | -15.20 | -12.15       | 4.52     |       | 8.00                         |       | Pass      |
| HT40        | MCS0      | 2   | 3   | 2422        | 0.67             | 0.67 | -18.39                 | -18.19 | -            | -17.72                                  | -17.52 | -14.51       | 4.52     |       | 8.00                         |       | Pass      |
| HT40        | MCS0      | 2   | 6   | 2437        | 0.67             | 0.67 | -17.58                 | -17.70 | -            | -16.91                                  | -17.03 | -13.90       | 4.52     |       | 8.00                         |       | Pass      |
| HT40        | MCS0      | 2   | 9   | 2452        | 0.67             | 0.67 | -17.29                 | -16.53 | -            | -16.62                                  | -15.86 | -12.85       | 4.52     |       | 8.00                         |       | Pass      |
| VHT20       | MCS0      | 2   | 1   | 2412        | 0.31             | 0.31 | -15.86                 | -15.54 | -            | -15.55                                  | -15.23 | -12.22       | 4.52     |       | 8.00                         |       | Pass      |
| VHT20       | MCS0      | 2   | 6   | 2437        | 0.31             | 0.31 | -15.71                 | -15.30 | -            | -15.40                                  | -14.99 | -11.98       | 4.52     |       | 8.00                         |       | Pass      |
| VHT20       | MCS0      | 2   | 11  | 2462        | 0.31             | 0.31 | -15.74                 | -14.84 | -            | -15.43                                  | -14.53 | -11.52       | 4.52     |       | 8.00                         |       | Pass      |
| VHT40       | MCS0      | 2   | 3   | 2422        | 0.66             | 0.67 | -18.34                 | -17.46 | -            | -17.68                                  | -16.79 | -13.78       | 4.52     |       | 8.00                         |       | Pass      |
| VHT40       | MCS0      | 2   | 6   | 2437        | 0.66             | 0.67 | -18.21                 | -17.88 | -            | -17.55                                  | -17.21 | -14.20       | 4.52     |       | 8.00                         |       | Pass      |
| VHT40       | MCS0      | 2   | 9   | 2452        | 0.66             | 0.67 | -18.10                 | -17.20 | -            | -17.44                                  | -16.53 | -13.52       | 4.52     |       | 8.00                         |       | Pass      |

Measured power density (dBm) has offset with cable loss.



<TXBF Modes>

Report Number : FR660115C

|                |                       |                    |       |    |
|----------------|-----------------------|--------------------|-------|----|
| Test Engineer: | Tommy Lee / Luffy Lin | Temperature:       | 21~25 | °C |
| Test Date:     | 2016/07/06~2016/07/07 | Relative Humidity: | 51~54 | %  |

**TEST RESULTS DATA**  
**6dB and 99% Occupied Bandwidth**

| 2.4GHz Band |           |     |     |             |                       |       |              |       |                    |           |
|-------------|-----------|-----|-----|-------------|-----------------------|-------|--------------|-------|--------------------|-----------|
| Mod.        | Data Rate | NTx | CH. | Freq. (MHz) | 99% Occupied BW (MHz) |       | 6dB BW (MHz) |       | 6dB BW Limit (MHz) | Pass/Fail |
|             |           |     |     |             | Ant 1                 | Ant 2 | Ant 1        | Ant 2 |                    |           |
| 11g         | 6Mbps     | 2   | 1   | 2412        | 17.75                 | 17.75 | 16.40        | 16.44 | 0.50               | Pass      |
| 11g         | 6Mbps     | 2   | 6   | 2437        | 17.55                 | 17.85 | 15.40        | 16.00 | 0.50               | Pass      |
| 11g         | 6Mbps     | 2   | 11  | 2462        | 17.55                 | 17.70 | 15.72        | 16.00 | 0.50               | Pass      |
| HT20        | MCS0      | 2   | 1   | 2412        | 18.65                 | 18.65 | 17.24        | 16.92 | 0.50               | Pass      |
| HT20        | MCS0      | 2   | 6   | 2437        | 18.45                 | 18.65 | 16.88        | 17.60 | 0.50               | Pass      |
| HT20        | MCS0      | 2   | 11  | 2462        | 18.30                 | 18.25 | 16.00        | 16.64 | 0.50               | Pass      |
| HT40        | MCS0      | 2   | 3   | 2422        | 36.40                 | 36.30 | 33.76        | 35.04 | 0.50               | Pass      |
| HT40        | MCS0      | 2   | 6   | 2437        | 36.50                 | 36.30 | 33.76        | 32.40 | 0.50               | Pass      |
| HT40        | MCS0      | 2   | 9   | 2452        | 36.30                 | 36.20 | 35.00        | 35.04 | 0.50               | Pass      |
| VHT20       | MCS0      | 2   | 1   | 2412        | 18.35                 | 18.80 | 17.52        | 17.60 | 0.50               | Pass      |
| VHT20       | MCS0      | 2   | 6   | 2437        | 18.65                 | 18.50 | 17.64        | 17.64 | 0.50               | Pass      |
| VHT20       | MCS0      | 2   | 11  | 2462        | 18.20                 | 18.50 | 15.08        | 16.36 | 0.50               | Pass      |
| VHT40       | MCS0      | 2   | 3   | 2422        | 36.50                 | 36.60 | 32.56        | 35.00 | 0.50               | Pass      |
| VHT40       | MCS0      | 2   | 6   | 2437        | 36.60                 | 36.40 | 32.56        | 30.00 | 0.50               | Pass      |
| VHT40       | MCS0      | 2   | 9   | 2452        | 36.30                 | 36.20 | 31.28        | 30.00 | 0.50               | Pass      |

**TEST RESULTS DATA**  
**Average Output Power**

| 2.4GHz Band |           |     |     |             |                               |       |       |                             |       |          |       |                  |       |                        |       |            |
|-------------|-----------|-----|-----|-------------|-------------------------------|-------|-------|-----------------------------|-------|----------|-------|------------------|-------|------------------------|-------|------------|
| Mod.        | Data Rate | Ntx | CH. | Freq. (MHz) | Average Conducted Power (dBm) |       |       | Conducted Power Limit (dBm) |       | DG (dBi) |       | EIRP Power (dBm) |       | EIRP Power Limit (dBm) |       | Pass /Fail |
|             |           |     |     |             | Ant 1                         | Ant 2 | SUM   | Ant 1                       | Ant 2 | Ant 1    | Ant 2 | Ant 1            | Ant 2 | Ant 1                  | Ant 2 |            |
| 11g         | 6Mbps     | 2   | 1   | 2412        | 13.70                         | 13.20 | 16.47 | 30.00                       |       | 4.52     |       | 20.99            |       | 36.00                  |       | Pass       |
| 11g         | 6Mbps     | 2   | 6   | 2437        | 13.50                         | 13.30 | 16.41 | 30.00                       |       | 4.52     |       | 20.93            |       | 36.00                  |       | Pass       |
| 11g         | 6Mbps     | 2   | 11  | 2462        | 13.70                         | 13.10 | 16.42 | 30.00                       |       | 4.52     |       | 20.94            |       | 36.00                  |       | Pass       |
| HT20        | MCS0      | 2   | 1   | 2412        | 13.50                         | 13.20 | 16.36 | 30.00                       |       | 4.52     |       | 20.88            |       | 36.00                  |       | Pass       |
| HT20        | MCS0      | 2   | 6   | 2437        | 13.50                         | 13.10 | 16.31 | 30.00                       |       | 4.52     |       | 20.83            |       | 36.00                  |       | Pass       |
| HT20        | MCS0      | 2   | 11  | 2462        | 13.40                         | 13.10 | 16.26 | 30.00                       |       | 4.52     |       | 20.78            |       | 36.00                  |       | Pass       |
| HT40        | MCS0      | 2   | 3   | 2422        | 13.60                         | 13.20 | 16.41 | 30.00                       |       | 4.52     |       | 20.93            |       | 36.00                  |       | Pass       |
| HT40        | MCS0      | 2   | 6   | 2437        | 13.30                         | 13.40 | 16.36 | 30.00                       |       | 4.52     |       | 20.88            |       | 36.00                  |       | Pass       |
| HT40        | MCS0      | 2   | 9   | 2452        | 13.30                         | 13.40 | 16.36 | 30.00                       |       | 4.52     |       | 20.88            |       | 36.00                  |       | Pass       |
| VHT20       | MCS0      | 2   | 1   | 2412        | 13.40                         | 13.40 | 16.41 | 30.00                       |       | 4.52     |       | 20.93            |       | 36.00                  |       | Pass       |
| VHT20       | MCS0      | 2   | 6   | 2437        | 13.40                         | 13.30 | 16.36 | 30.00                       |       | 4.52     |       | 20.88            |       | 36.00                  |       | Pass       |
| VHT20       | MCS0      | 2   | 11  | 2462        | 13.40                         | 13.20 | 16.31 | 30.00                       |       | 4.52     |       | 20.83            |       | 36.00                  |       | Pass       |
| VHT40       | MCS0      | 2   | 3   | 2422        | 13.50                         | 13.40 | 16.46 | 30.00                       |       | 4.52     |       | 20.98            |       | 36.00                  |       | Pass       |
| VHT40       | MCS0      | 2   | 6   | 2437        | 13.30                         | 13.50 | 16.41 | 30.00                       |       | 4.52     |       | 20.93            |       | 36.00                  |       | Pass       |
| VHT40       | MCS0      | 2   | 9   | 2452        | 13.50                         | 13.30 | 16.41 | 30.00                       |       | 4.52     |       | 20.93            |       | 36.00                  |       | Pass       |

Note: Measured power (dBm) has offset with cable loss.

**TEST RESULTS DATA**  
**Average Power Spectral Density**

| 2.4GHz Band |           |     |     |             |                        |       |              |          |       |                              |       |           |
|-------------|-----------|-----|-----|-------------|------------------------|-------|--------------|----------|-------|------------------------------|-------|-----------|
| Mod.        | Data Rate | NTx | CH. | Freq. (MHz) | Average PSD (dBm/3kHz) |       |              | DG (dBi) |       | Average PSD Limit (dBm/3kHz) |       | Pass/Fail |
|             |           |     |     |             | Ant 1                  | Ant 2 | Worse + 3.01 | Ant 1    | Ant 2 | Ant 1                        | Ant 2 |           |
| 11g         | 6Mbps     | 2   | 1   | 2412        | -4.44                  | -7.06 | -1.43        | 4.52     |       | 8.00                         |       | Pass      |
| 11g         | 6Mbps     | 2   | 6   | 2437        | -0.44                  | -4.61 | 2.57         | 4.52     |       | 8.00                         |       | Pass      |
| 11g         | 6Mbps     | 2   | 11  | 2462        | -5.26                  | -4.56 | -1.55        | 4.52     |       | 8.00                         |       | Pass      |
| HT20        | MCS0      | 2   | 1   | 2412        | -5.11                  | -2.73 | 0.28         | 4.52     |       | 8.00                         |       | Pass      |
| HT20        | MCS0      | 2   | 6   | 2437        | -5.72                  | -4.43 | -1.42        | 4.52     |       | 8.00                         |       | Pass      |
| HT20        | MCS0      | 2   | 11  | 2462        | -5.01                  | -5.09 | -2.00        | 4.52     |       | 8.00                         |       | Pass      |
| HT40        | MCS0      | 2   | 3   | 2422        | -5.30                  | -4.97 | -1.96        | 4.52     |       | 8.00                         |       | Pass      |
| HT40        | MCS0      | 2   | 6   | 2437        | -4.17                  | -3.48 | -0.47        | 4.52     |       | 8.00                         |       | Pass      |
| HT40        | MCS0      | 2   | 9   | 2452        | -3.85                  | -4.29 | -0.84        | 4.52     |       | 8.00                         |       | Pass      |
| VHT20       | MCS0      | 2   | 1   | 2412        | -6.63                  | -6.97 | -3.62        | 4.52     |       | 8.00                         |       | Pass      |
| VHT20       | MCS0      | 2   | 6   | 2437        | -6.14                  | -4.95 | -1.94        | 4.52     |       | 8.00                         |       | Pass      |
| VHT20       | MCS0      | 2   | 11  | 2462        | -3.94                  | -5.06 | -0.93        | 4.52     |       | 8.00                         |       | Pass      |
| VHT40       | MCS0      | 2   | 3   | 2422        | -4.10                  | 1.22  | 4.23         | 4.52     |       | 8.00                         |       | Pass      |
| VHT40       | MCS0      | 2   | 6   | 2437        | -6.18                  | -3.57 | -0.56        | 4.52     |       | 8.00                         |       | Pass      |
| VHT40       | MCS0      | 2   | 9   | 2452        | 2.55                   | -4.44 | 5.56         | 4.52     |       | 8.00                         |       | Pass      |

Measured power density (dBm) has offset with cable loss.



## Appendix B. Radiated Spurious Emission

|                 |                                               |                     |         |
|-----------------|-----------------------------------------------|---------------------|---------|
| Test Engineer : | Luke Chang/Jesse Wang/Derreck Chen/James Chiu | Temperature :       | 21~24°C |
|                 |                                               | Relative Humidity : | 50~54%  |

### 2.4GHz 2400~2483.5MHz

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

| WIFI Ant.                   | Note | Frequency | Level      | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol.    |
|-----------------------------|------|-----------|------------|------------|------------|------------|----------------|------------|---------------|---------|-----------|-----------|---------|
| 2                           |      | ( MHz )   | ( dBμV/m ) | ( dB )     | ( dBμV/m ) | ( dBμV )   | ( dB/m )       | ( dB )     | ( dB )        | ( cm )  | ( deg )   | ( P/A )   | ( H/V ) |
| 802.11b<br>CH 01<br>2412MHz |      | 2344.86   | 54.61      | -19.39     | 74         | 49.98      | 31.8           | 7.24       | 34.41         | 160     | 186       | P         | H       |
|                             |      | 2390      | 44.67      | -9.33      | 54         | 39.76      | 31.93          | 7.31       | 34.33         | 160     | 186       | A         | H       |
|                             | *    | 2412      | 103.01     | -          | -          | 98.02      | 31.98          | 7.31       | 34.3          | 160     | 186       | P         | H       |
|                             | *    | 2412      | 99.86      | -          | -          | 94.87      | 31.98          | 7.31       | 34.3          | 160     | 186       | A         | H       |
|                             |      |           |            |            |            |            |                |            |               |         |           |           | H       |
|                             |      |           |            |            |            |            |                |            |               |         |           |           | H       |
|                             |      | 2382.35   | 55.06      | -18.94     | 74         | 50.21      | 31.89          | 7.31       | 34.35         | 345     | 246       | P         | V       |
|                             |      | 2390      | 44.79      | -9.21      | 54         | 39.88      | 31.93          | 7.31       | 34.33         | 345     | 246       | A         | V       |
|                             | *    | 2412      | 105.1      | -          | -          | 100.11     | 31.98          | 7.31       | 34.3          | 345     | 246       | P         | V       |
|                             | *    | 2412      | 101.92     | -          | -          | 96.93      | 31.98          | 7.31       | 34.3          | 345     | 246       | A         | V       |
|                             |      |           |            |            |            |            |                |            |               |         |           |           | V       |
|                             |      |           |            |            |            |            |                |            |               |         |           |           | V       |
| 802.11b<br>CH 06<br>2437MHz |      | 2387.42   | 55.38      | -18.62     | 74         | 50.48      | 31.93          | 7.31       | 34.34         | 200     | 186       | P         | H       |
|                             |      | 2389.66   | 44.35      | -9.65      | 54         | 39.44      | 31.93          | 7.31       | 34.33         | 200     | 186       | A         | H       |
|                             | *    | 2437      | 101.66     | -          | -          | 96.48      | 32.07          | 7.36       | 34.25         | 200     | 186       | P         | H       |
|                             | *    | 2437      | 98.52      | -          | -          | 93.34      | 32.07          | 7.36       | 34.25         | 200     | 186       | A         | H       |
|                             |      | 2490.13   | 57.56      | -16.44     | 74         | 52.13      | 32.2           | 7.4        | 34.17         | 200     | 186       | P         | H       |
|                             |      | 2487.47   | 44.85      | -9.15      | 54         | 39.46      | 32.16          | 7.4        | 34.17         | 200     | 186       | A         | H       |
|                             |      | 2332.4    | 55.45      | -18.55     | 74         | 50.95      | 31.75          | 7.18       | 34.43         | 342     | 239       | P         | V       |
|                             |      | 2389.52   | 44.31      | -9.69      | 54         | 39.4       | 31.93          | 7.31       | 34.33         | 342     | 239       | A         | V       |
|                             | *    | 2437      | 104.72     | -          | -          | 99.54      | 32.07          | 7.36       | 34.25         | 342     | 239       | P         | V       |
|                             | *    | 2437      | 101.68     | -          | -          | 96.5       | 32.07          | 7.36       | 34.25         | 342     | 239       | A         | V       |
|                             |      | 2491.74   | 55.35      | -18.65     | 74         | 49.91      | 32.2           | 7.4        | 34.16         | 342     | 239       | P         | V       |
|                             |      | 2488.31   | 44.88      | -9.12      | 54         | 39.45      | 32.2           | 7.4        | 34.17         | 342     | 239       | A         | V       |



|                                                  |                                                                                             |         |        |        |    |       |       |     |       |     |     |   |   |
|--------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|-----|-------|-----|-----|---|---|
| <b>802.11b</b><br><b>CH 11</b><br><b>2462MHz</b> | *                                                                                           | 2462    | 101.31 | -      | -  | 96.01 | 32.11 | 7.4 | 34.21 | 134 | 185 | P | H |
|                                                  | *                                                                                           | 2462    | 98.16  | -      | -  | 92.86 | 32.11 | 7.4 | 34.21 | 134 | 185 | A | H |
|                                                  |                                                                                             | 2489.92 | 55.53  | -18.47 | 74 | 50.1  | 32.2  | 7.4 | 34.17 | 134 | 185 | P | H |
|                                                  |                                                                                             | 2483.52 | 45.49  | -8.51  | 54 | 40.11 | 32.16 | 7.4 | 34.18 | 134 | 185 | A | H |
|                                                  |                                                                                             |         |        |        |    |       |       |     |       |     |     |   | H |
|                                                  |                                                                                             |         |        |        |    |       |       |     |       |     |     |   | H |
|                                                  | *                                                                                           | 2462    | 104.36 | -      | -  | 99.06 | 32.11 | 7.4 | 34.21 | 167 | 294 | P | V |
|                                                  | *                                                                                           | 2462    | 101.25 | -      | -  | 95.95 | 32.11 | 7.4 | 34.21 | 167 | 294 | A | V |
|                                                  |                                                                                             | 2486.44 | 55.84  | -18.16 | 74 | 50.45 | 32.16 | 7.4 | 34.17 | 167 | 294 | P | V |
|                                                  |                                                                                             | 2483.52 | 46.64  | -7.36  | 54 | 41.26 | 32.16 | 7.4 | 34.18 | 167 | 294 | A | V |
|                                                  |                                                                                             |         |        |        |    |       |       |     |       |     |     |   | V |
|                                                  |                                                                                             |         |        |        |    |       |       |     |       |     |     |   | V |
| <b>Remark</b>                                    | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |       |       |     |       |     |     |   |   |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11b (Harmonic @ 3m)

| WIFI<br>Ant.<br>2           | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | 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                 | 43.12               | -30.88                  | 74                          | 56.28                     | 34.2                          | 11.68                   | 59.04                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 4824                 | 47.5                | -26.5                   | 74                          | 60.66                     | 34.2                          | 11.68                   | 59.04                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11b<br>CH 06<br>2437MHz |                                                                                             | 4874                 | 39.35               | -34.65                  | 74                          | 52.53                     | 34.23                         | 11.53                   | 58.94                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 7311                 | 40.65               | -33.35                  | 74                          | 49.17                     | 35.6                          | 13.81                   | 57.93                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 4874                 | 42.47               | -31.53                  | 74                          | 55.65                     | 34.23                         | 11.53                   | 58.94                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 7311                 | 42.3                | -31.7                   | 74                          | 50.82                     | 35.6                          | 13.81                   | 57.93                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11b<br>CH 11<br>2462MHz |                                                                                             | 4924                 | 41.1                | -32.9                   | 74                          | 54.31                     | 34.26                         | 11.37                   | 58.84                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 7386                 | 39.84               | -34.16                  | 74                          | 48.35                     | 35.6                          | 13.95                   | 58.06                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 4924                 | 41.41               | -32.59                  | 74                          | 54.62                     | 34.26                         | 11.37                   | 58.84                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 7386                 | 42.32               | -31.68                  | 74                          | 50.83                     | 35.6                          | 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. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



**2.4GHz 2400~2483.5MHz**  
**WIFI 802.11g (Band Edge @ 3m)**

| WIFI<br>Ant.<br>2                    | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | 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 ) |
|--------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| <b>802.11g<br/>CH 01<br/>2412MHz</b> |      | 2388.33              | 56.07               | -17.93                  | 74                          | 51.17                     | 31.93                         | 7.31                    | 34.34                      | 158                  | 186                     | P                       | H               |
|                                      |      | 2390                 | 46.52               | -7.48                   | 54                          | 41.61                     | 31.93                         | 7.31                    | 34.33                      | 158                  | 186                     | A                       | H               |
|                                      | *    | 2412                 | 105.36              | -                       | -                           | 100.37                    | 31.98                         | 7.31                    | 34.3                       | 158                  | 186                     | P                       | H               |
|                                      | *    | 2412                 | 97.35               | -                       | -                           | 92.36                     | 31.98                         | 7.31                    | 34.3                       | 158                  | 186                     | A                       | H               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |      | 2389.59              | 55.26               | -18.74                  | 74                          | 50.35                     | 31.93                         | 7.31                    | 34.33                      | 236                  | 218                     | P                       | V               |
|                                      |      | 2390                 | 46.55               | -7.45                   | 54                          | 41.64                     | 31.93                         | 7.31                    | 34.33                      | 236                  | 218                     | A                       | V               |
|                                      | *    | 2412                 | 107.33              | -                       | -                           | 102.34                    | 31.98                         | 7.31                    | 34.3                       | 236                  | 218                     | P                       | V               |
|                                      | *    | 2412                 | 98.35               | -                       | -                           | 93.36                     | 31.98                         | 7.31                    | 34.3                       | 236                  | 218                     | A                       | V               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| <b>802.11g<br/>CH 06<br/>2437MHz</b> |      | 2381.96              | 54.65               | -19.35                  | 74                          | 49.8                      | 31.89                         | 7.31                    | 34.35                      | 107                  | 185                     | P                       | H               |
|                                      |      | 2389.94              | 45.2                | -8.8                    | 54                          | 40.29                     | 31.93                         | 7.31                    | 34.33                      | 107                  | 185                     | A                       | H               |
|                                      | *    | 2437                 | 103.96              | -                       | -                           | 98.78                     | 32.07                         | 7.36                    | 34.25                      | 107                  | 185                     | P                       | H               |
|                                      | *    | 2437                 | 96.23               | -                       | -                           | 91.05                     | 32.07                         | 7.36                    | 34.25                      | 107                  | 185                     | A                       | H               |
|                                      |      | 2490.34              | 55.56               | -18.44                  | 74                          | 50.13                     | 32.2                          | 7.4                     | 34.17                      | 107                  | 185                     | P                       | H               |
|                                      |      | 2486.07              | 45.88               | -8.12                   | 54                          | 40.49                     | 32.16                         | 7.4                     | 34.17                      | 107                  | 185                     | A                       | H               |
|                                      |      | 2365.16              | 54.42               | -19.58                  | 74                          | 49.71                     | 31.84                         | 7.24                    | 34.37                      | 100                  | 233                     | P                       | V               |
|                                      |      | 2389.8               | 45.37               | -8.63                   | 54                          | 40.46                     | 31.93                         | 7.31                    | 34.33                      | 100                  | 233                     | A                       | V               |
|                                      | *    | 2437                 | 107.24              | -                       | -                           | 102.06                    | 32.07                         | 7.36                    | 34.25                      | 100                  | 233                     | P                       | V               |
|                                      | *    | 2437                 | 98.58               | -                       | -                           | 93.4                      | 32.07                         | 7.36                    | 34.25                      | 100                  | 233                     | A                       | V               |
|                                      |      | 2483.83              | 55.91               | -18.09                  | 74                          | 50.53                     | 32.16                         | 7.4                     | 34.18                      | 100                  | 233                     | P                       | V               |
|                                      |      | 2486.14              | 46.18               | -7.82                   | 54                          | 40.79                     | 32.16                         | 7.4                     | 34.17                      | 100                  | 233                     | A                       | V               |



|                                                  |                                                                                             |         |        |        |    |        |       |     |       |     |     |   |   |
|--------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|--------|-------|-----|-------|-----|-----|---|---|
| <b>802.11g</b><br><b>CH 11</b><br><b>2462MHz</b> | *                                                                                           | 2462    | 102.69 | -      | -  | 97.39  | 32.11 | 7.4 | 34.21 | 133 | 186 | P | H |
|                                                  | *                                                                                           | 2462    | 95.03  | -      | -  | 89.73  | 32.11 | 7.4 | 34.21 | 133 | 186 | A | H |
|                                                  |                                                                                             | 2484    | 56.5   | -17.5  | 74 | 51.12  | 32.16 | 7.4 | 34.18 | 133 | 186 | P | H |
|                                                  |                                                                                             | 2483.52 | 46.76  | -7.24  | 54 | 41.38  | 32.16 | 7.4 | 34.18 | 133 | 186 | A | H |
|                                                  |                                                                                             |         |        |        |    |        |       |     |       |     |     |   | H |
|                                                  |                                                                                             |         |        |        |    |        |       |     |       |     |     |   | H |
|                                                  | *                                                                                           | 2462    | 106.95 | -      | -  | 101.65 | 32.11 | 7.4 | 34.21 | 102 | 225 | P | V |
|                                                  | *                                                                                           | 2462    | 98.17  | -      | -  | 92.87  | 32.11 | 7.4 | 34.21 | 102 | 225 | A | V |
|                                                  |                                                                                             | 2483.52 | 56.99  | -17.01 | 74 | 51.61  | 32.16 | 7.4 | 34.18 | 102 | 225 | P | V |
|                                                  |                                                                                             | 2483.52 | 47.59  | -6.41  | 54 | 42.21  | 32.16 | 7.4 | 34.18 | 102 | 225 | A | V |
|                                                  |                                                                                             |         |        |        |    |        |       |     |       |     |     |   | V |
|                                                  |                                                                                             |         |        |        |    |        |       |     |       |     |     |   | V |
| <b>Remark</b>                                    | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |     |       |     |     |   |   |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11g (Harmonic @ 3m)

| WIFI<br>Ant.<br>2           | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | 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                 | 40.91               | -33.09                  | 74                          | 54.07                     | 34.2                          | 11.68                   | 59.04                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 4824                 | 43.75               | -30.25                  | 74                          | 56.91                     | 34.2                          | 11.68                   | 59.04                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11g<br>CH 06<br>2437MHz |                                                                                             | 4874                 | 40.32               | -33.68                  | 74                          | 53.5                      | 34.23                         | 11.53                   | 58.94                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 7311                 | 40.9                | -33.1                   | 74                          | 49.42                     | 35.6                          | 13.81                   | 57.93                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 4874                 | 41.8                | -32.2                   | 74                          | 54.98                     | 34.23                         | 11.53                   | 58.94                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 7311                 | 41.26               | -32.74                  | 74                          | 49.78                     | 35.6                          | 13.81                   | 57.93                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11g<br>CH 11<br>2462MHz |                                                                                             | 4924                 | 40.99               | -33.01                  | 74                          | 54.2                      | 34.26                         | 11.37                   | 58.84                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 7386                 | 41.11               | -32.89                  | 74                          | 49.62                     | 35.6                          | 13.95                   | 58.06                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 4924                 | 42.7                | -31.3                   | 74                          | 55.91                     | 34.26                         | 11.37                   | 58.84                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 7386                 | 40.24               | -33.76                  | 74                          | 48.75                     | 35.6                          | 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. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



**2.4GHz 2400~2483.5MHz**  
**WIFI 802.11ac VHT20 (Band Edge @ 3m)**

| WIFI<br>Ant.<br>2                     | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | 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 ) |
|---------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT20<br>CH 01<br>2412MHz |      | 2390                 | 56.11               | -17.89                  | 74                          | 51.2                      | 31.93                         | 7.31                    | 34.33                      | 101                  | 182                     | P                       | H               |
|                                       |      | 2390                 | 46.59               | -7.41                   | 54                          | 41.68                     | 31.93                         | 7.31                    | 34.33                      | 101                  | 182                     | A                       | H               |
|                                       | *    | 2412                 | 103.67              | -                       | -                           | 98.68                     | 31.98                         | 7.31                    | 34.3                       | 101                  | 182                     | P                       | H               |
|                                       | *    | 2412                 | 96.21               | -                       | -                           | 91.22                     | 31.98                         | 7.31                    | 34.3                       | 101                  | 182                     | A                       | H               |
|                                       |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |      | 2390                 | 55.72               | -18.28                  | 74                          | 50.81                     | 31.93                         | 7.31                    | 34.33                      | 108                  | 310                     | P                       | V               |
|                                       |      | 2390                 | 47.47               | -6.53                   | 54                          | 42.56                     | 31.93                         | 7.31                    | 34.33                      | 108                  | 310                     | A                       | V               |
|                                       | *    | 2412                 | 106.79              | -                       | -                           | 101.8                     | 31.98                         | 7.31                    | 34.3                       | 108                  | 310                     | P                       | V               |
|                                       | *    | 2412                 | 98.97               | -                       | -                           | 93.98                     | 31.98                         | 7.31                    | 34.3                       | 108                  | 310                     | A                       | V               |
|                                       |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                       |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT20<br>CH 06<br>2437MHz |      | 2355.5               | 55.59               | -18.41                  | 74                          | 50.9                      | 31.84                         | 7.24                    | 34.39                      | 108                  | 186                     | P                       | H               |
|                                       |      | 2389.24              | 45.28               | -8.72                   | 54                          | 40.37                     | 31.93                         | 7.31                    | 34.33                      | 108                  | 186                     | A                       | H               |
|                                       | *    | 2437                 | 104.76              | -                       | -                           | 99.58                     | 32.07                         | 7.36                    | 34.25                      | 108                  | 186                     | P                       | H               |
|                                       | *    | 2437                 | 96.57               | -                       | -                           | 91.39                     | 32.07                         | 7.36                    | 34.25                      | 108                  | 186                     | A                       | H               |
|                                       |      | 2498.18              | 55.75               | -18.25                  | 74                          | 50.3                      | 32.2                          | 7.4                     | 34.15                      | 108                  | 186                     | P                       | H               |
|                                       |      | 2486.77              | 46.07               | -7.93                   | 54                          | 40.68                     | 32.16                         | 7.4                     | 34.17                      | 108                  | 186                     | A                       | H               |
|                                       |      | 2347.8               | 54.93               | -19.07                  | 74                          | 50.29                     | 31.8                          | 7.24                    | 34.4                       | 343                  | 238                     | P                       | V               |
|                                       |      | 2389.66              | 45.25               | -8.75                   | 54                          | 40.34                     | 31.93                         | 7.31                    | 34.33                      | 343                  | 238                     | A                       | V               |
|                                       | *    | 2437                 | 107.75              | -                       | -                           | 102.57                    | 32.07                         | 7.36                    | 34.25                      | 343                  | 238                     | P                       | V               |
|                                       | *    | 2437                 | 99.81               | -                       | -                           | 94.63                     | 32.07                         | 7.36                    | 34.25                      | 343                  | 238                     | A                       | V               |
|                                       |      | 2485.58              | 56.15               | -17.85                  | 74                          | 50.76                     | 32.16                         | 7.4                     | 34.17                      | 343                  | 238                     | P                       | V               |
|                                       |      | 2485.37              | 46.08               | -7.92                   | 54                          | 40.69                     | 32.16                         | 7.4                     | 34.17                      | 343                  | 238                     | A                       | V               |



|                                                                   |                                                                                             |         |        |        |    |        |       |     |       |     |     |   |   |
|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|--------|-------|-----|-------|-----|-----|---|---|
| <b>802.11ac</b><br><b>VHT20</b><br><b>CH 11</b><br><b>2462MHz</b> | *                                                                                           | 2462    | 104.32 | -      | -  | 99.02  | 32.11 | 7.4 | 34.21 | 178 | 187 | P | H |
|                                                                   | *                                                                                           | 2462    | 96.35  | -      | -  | 91.05  | 32.11 | 7.4 | 34.21 | 178 | 187 | A | H |
|                                                                   |                                                                                             | 2483.84 | 62.06  | -11.94 | 74 | 56.68  | 32.16 | 7.4 | 34.18 | 178 | 187 | P | H |
|                                                                   |                                                                                             | 2483.56 | 50.04  | -3.96  | 54 | 44.66  | 32.16 | 7.4 | 34.18 | 178 | 187 | A | H |
|                                                                   |                                                                                             |         |        |        |    |        |       |     |       |     |     |   | H |
|                                                                   |                                                                                             |         |        |        |    |        |       |     |       |     |     |   | H |
|                                                                   | *                                                                                           | 2462    | 107.36 | -      | -  | 102.06 | 32.11 | 7.4 | 34.21 | 101 | 226 | P | V |
|                                                                   | *                                                                                           | 2462    | 99.32  | -      | -  | 94.02  | 32.11 | 7.4 | 34.21 | 101 | 226 | A | V |
|                                                                   |                                                                                             | 2484.08 | 62.83  | -11.17 | 74 | 57.45  | 32.16 | 7.4 | 34.18 | 101 | 226 | P | V |
|                                                                   |                                                                                             | 2483.72 | 51.5   | -2.5   | 54 | 46.12  | 32.16 | 7.4 | 34.18 | 101 | 226 | A | V |
|                                                                   |                                                                                             |         |        |        |    |        |       |     |       |     |     |   | V |
|                                                                   |                                                                                             |         |        |        |    |        |       |     |       |     |     |   | V |
| <b>Remark</b>                                                     | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |     |       |     |     |   |   |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11ac VHT20 (Harmonic @ 3m)

| WIFI<br>Ant.<br>2                     | Note                                                         | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | 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 ) |
|---------------------------------------|--------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT20<br>CH 01<br>2412MHz |                                                              | 4824                 | 41.87               | -32.13                  | 74                          | 55.03                     | 34.2                          | 11.68                   | 59.04                      | 100                  | 0                       | P                       | H               |
|                                       |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                              | 4824                 | 44.54               | -29.46                  | 74                          | 57.7                      | 34.2                          | 11.68                   | 59.04                      | 100                  | 0                       | P                       | V               |
|                                       |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                       |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT20<br>CH 06<br>2437MHz |                                                              | 4874                 | 41.29               | -32.71                  | 74                          | 54.47                     | 34.23                         | 11.53                   | 58.94                      | 100                  | 0                       | P                       | H               |
|                                       |                                                              | 7311                 | 40.87               | -33.13                  | 74                          | 49.39                     | 35.6                          | 13.81                   | 57.93                      | 100                  | 0                       | P                       | H               |
|                                       |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                              | 4874                 | 40.91               | -33.09                  | 74                          | 54.09                     | 34.23                         | 11.53                   | 58.94                      | 100                  | 0                       | P                       | V               |
|                                       |                                                              | 7311                 | 41.95               | -32.05                  | 74                          | 50.47                     | 35.6                          | 13.81                   | 57.93                      | 100                  | 0                       | P                       | V               |
|                                       |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT20<br>CH 11<br>2462MHz |                                                              | 4924                 | 40.82               | -33.18                  | 74                          | 54.03                     | 34.26                         | 11.37                   | 58.84                      | 100                  | 0                       | P                       | H               |
|                                       |                                                              | 7386                 | 40.31               | -33.69                  | 74                          | 48.82                     | 35.6                          | 13.95                   | 58.06                      | 100                  | 0                       | P                       | H               |
|                                       |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                              | 4924                 | 42                  | -32                     | 74                          | 55.21                     | 34.26                         | 11.37                   | 58.84                      | 100                  | 0                       | P                       | V               |
|                                       |                                                              | 7386                 | 39.87               | -34.13                  | 74                          | 48.38                     | 35.6                          | 13.95                   | 58.06                      | 100                  | 0                       | P                       | V               |
|                                       |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                                | 1. No other spurious found.                                  |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |
|                                       | 2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



**2.4GHz 2400~2483.5MHz**  
**WIFI 802.11ac VHT40 (Band Edge @ 3m)**

| WIFI<br>Ant.<br>2                               | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | 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 ) |
|-------------------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| <b>802.11ac<br/>VHT40<br/>CH 03<br/>2422MHz</b> |      | 2389.8               | 56.89               | -17.11                  | 74                          | 51.98                     | 31.93                         | 7.31                    | 34.33                      | 125                  | 184                     | P                       | H               |
|                                                 |      | 2389.94              | 48.12               | -5.88                   | 54                          | 43.21                     | 31.93                         | 7.31                    | 34.33                      | 125                  | 184                     | A                       | H               |
|                                                 | *    | 2422                 | 100.92              | -                       | -                           | 95.82                     | 32.02                         | 7.36                    | 34.28                      | 125                  | 184                     | P                       | H               |
|                                                 | *    | 2422                 | 92.71               | -                       | -                           | 87.61                     | 32.02                         | 7.36                    | 34.28                      | 125                  | 184                     | A                       | H               |
|                                                 |      | 2492.93              | 55.34               | -18.66                  | 74                          | 49.9                      | 32.2                          | 7.4                     | 34.16                      | 125                  | 184                     | P                       | H               |
|                                                 |      | 2483.69              | 46.49               | -7.51                   | 54                          | 41.11                     | 32.16                         | 7.4                     | 34.18                      | 125                  | 184                     | A                       | H               |
|                                                 |      | 2389.94              | 58.01               | -15.99                  | 74                          | 53.1                      | 31.93                         | 7.31                    | 34.33                      | 104                  | 310                     | P                       | V               |
|                                                 |      | 2389.8               | 49.43               | -4.57                   | 54                          | 44.52                     | 31.93                         | 7.31                    | 34.33                      | 104                  | 310                     | A                       | V               |
|                                                 | *    | 2422                 | 103.32              | -                       | -                           | 98.22                     | 32.02                         | 7.36                    | 34.28                      | 104                  | 310                     | P                       | V               |
|                                                 | *    | 2422                 | 95.02               | -                       | -                           | 89.92                     | 32.02                         | 7.36                    | 34.28                      | 104                  | 310                     | A                       | V               |
|                                                 |      | 2483.55              | 55.94               | -18.06                  | 74                          | 50.56                     | 32.16                         | 7.4                     | 34.18                      | 104                  | 310                     | P                       | V               |
|                                                 |      | 2487.26              | 46.56               | -7.44                   | 54                          | 41.17                     | 32.16                         | 7.4                     | 34.17                      | 104                  | 310                     | A                       | V               |
| <b>802.11ac<br/>VHT40<br/>CH 06<br/>2437MHz</b> |      | 2389.94              | 56.13               | -17.87                  | 74                          | 51.22                     | 31.93                         | 7.31                    | 34.33                      | 153                  | 185                     | P                       | H               |
|                                                 |      | 2389.94              | 47.44               | -6.56                   | 54                          | 42.53                     | 31.93                         | 7.31                    | 34.33                      | 153                  | 185                     | A                       | H               |
|                                                 | *    | 2437                 | 101.15              | -                       | -                           | 95.97                     | 32.07                         | 7.36                    | 34.25                      | 153                  | 185                     | P                       | H               |
|                                                 | *    | 2437                 | 93.41               | -                       | -                           | 88.23                     | 32.07                         | 7.36                    | 34.25                      | 153                  | 185                     | A                       | H               |
|                                                 |      | 2483.55              | 59.41               | -14.59                  | 74                          | 54.03                     | 32.16                         | 7.4                     | 34.18                      | 153                  | 185                     | P                       | H               |
|                                                 |      | 2483.9               | 50.38               | -3.62                   | 54                          | 45                        | 32.16                         | 7.4                     | 34.18                      | 153                  | 185                     | A                       | H               |
|                                                 |      | 2388.96              | 57.78               | -16.22                  | 74                          | 52.87                     | 31.93                         | 7.31                    | 34.33                      | 102                  | 226                     | P                       | V               |
|                                                 |      | 2389.94              | 49.05               | -4.95                   | 54                          | 44.14                     | 31.93                         | 7.31                    | 34.33                      | 102                  | 226                     | A                       | V               |
|                                                 | *    | 2437                 | 104.06              | -                       | -                           | 98.88                     | 32.07                         | 7.36                    | 34.25                      | 102                  | 226                     | P                       | V               |
|                                                 | *    | 2437                 | 96.37               | -                       | -                           | 91.19                     | 32.07                         | 7.36                    | 34.25                      | 102                  | 226                     | A                       | V               |
|                                                 |      | 2484.95              | 61.18               | -12.82                  | 74                          | 55.79                     | 32.16                         | 7.4                     | 34.17                      | 102                  | 226                     | P                       | V               |
|                                                 |      | 2484.04              | 51.57               | -2.43                   | 54                          | 46.19                     | 32.16                         | 7.4                     | 34.18                      | 102                  | 226                     | A                       | V               |



|                                                                   |                                                                                             |         |        |        |    |       |       |      |       |     |     |   |   |
|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|------|-------|-----|-----|---|---|
| <b>802.11ac</b><br><b>VHT40</b><br><b>CH 09</b><br><b>2452MHz</b> |                                                                                             | 2355.36 | 55.23  | -18.77 | 74 | 50.54 | 31.84 | 7.24 | 34.39 | 112 | 184 | P | H |
|                                                                   |                                                                                             | 2389.94 | 45.67  | -8.33  | 54 | 40.76 | 31.93 | 7.31 | 34.33 | 112 | 184 | A | H |
|                                                                   | *                                                                                           | 2452    | 100.02 | -      | -  | 94.82 | 32.07 | 7.36 | 34.23 | 112 | 184 | P | H |
|                                                                   | *                                                                                           | 2452    | 92.21  | -      | -  | 87.01 | 32.07 | 7.36 | 34.23 | 112 | 184 | A | H |
|                                                                   |                                                                                             | 2483.83 | 62.14  | -11.86 | 74 | 56.76 | 32.16 | 7.4  | 34.18 | 112 | 184 | P | H |
|                                                                   |                                                                                             | 2484.6  | 51.82  | -2.18  | 54 | 46.44 | 32.16 | 7.4  | 34.18 | 112 | 184 | A | H |
|                                                                   |                                                                                             | 2324.28 | 55.01  | -18.99 | 74 | 50.52 | 31.75 | 7.18 | 34.44 | 102 | 226 | P | V |
|                                                                   |                                                                                             | 2389.52 | 45.76  | -8.24  | 54 | 40.85 | 31.93 | 7.31 | 34.33 | 102 | 226 | A | V |
|                                                                   | *                                                                                           | 2452    | 103.5  | -      | -  | 98.3  | 32.07 | 7.36 | 34.23 | 102 | 226 | P | V |
|                                                                   | *                                                                                           | 2452    | 96     | -      | -  | 90.8  | 32.07 | 7.36 | 34.23 | 102 | 226 | A | V |
|                                                                   |                                                                                             | 2483.52 | 61.88  | -12.12 | 74 | 56.5  | 32.16 | 7.4  | 34.18 | 102 | 226 | P | V |
|                                                                   |                                                                                             | 2483.52 | 52.73  | -1.27  | 54 | 47.35 | 32.16 | 7.4  | 34.18 | 102 | 226 | A | V |
| <b>Remark</b>                                                     | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |       |       |      |       |     |     |   |   |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11ac VHT40 (Harmonic @ 3m)

| WIFI<br>Ant.<br>2                     | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | 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 ) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT40<br>CH 03<br>2422MHz |                                                                                             | 4844                 | 40.05               | -33.95                  | 74                          | 53.17                     | 34.21                         | 11.68                   | 59.01                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             | 7266                 | 41.56               | -32.44                  | 74                          | 50.1                      | 35.6                          | 13.75                   | 57.89                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 4844                 | 41.84               | -32.16                  | 74                          | 54.96                     | 34.21                         | 11.68                   | 59.01                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             | 7266                 | 41.14               | -32.86                  | 74                          | 49.68                     | 35.6                          | 13.75                   | 57.89                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT40<br>CH 06<br>2437MHz |                                                                                             | 4874                 | 39.67               | -34.33                  | 74                          | 52.85                     | 34.23                         | 11.53                   | 58.94                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             | 7311                 | 41.73               | -32.27                  | 74                          | 50.25                     | 35.6                          | 13.81                   | 57.93                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 4874                 | 40.62               | -33.38                  | 74                          | 53.8                      | 34.23                         | 11.53                   | 58.94                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             | 7311                 | 41.01               | -32.99                  | 74                          | 49.53                     | 35.6                          | 13.81                   | 57.93                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT40<br>CH 09<br>2452MHz |                                                                                             | 4909                 | 41.02               | -32.98                  | 74                          | 54.27                     | 34.25                         | 11.37                   | 58.87                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             | 7356                 | 41.05               | -32.95                  | 74                          | 49.58                     | 35.6                          | 13.88                   | 58.01                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 4904                 | 40.65               | -33.35                  | 74                          | 53.9                      | 34.25                         | 11.37                   | 58.87                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             | 7356                 | 40.79               | -33.21                  | 74                          | 49.32                     | 35.6                          | 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. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



## Emission below 1GHz

## 2.4GHz WIFI 802.11b (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.    |         |
| 2                       |                                                                            | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 2.4GHz<br>802.11b<br>LF |                                                                            | 30        | 28.47      | -11.53 | 40         | 32.75    | 26       | 1.07   | 31.35  | 100    | 0       | P       | H       |
|                         |                                                                            | 124.23    | 20.31      | -23.19 | 43.5       | 32.21    | 18.06    | 1.55   | 31.51  |        |         | P       | H       |
|                         |                                                                            | 242.22    | 33.24      | -12.76 | 46         | 44.29    | 18.27    | 2.07   | 31.39  |        |         | P       | H       |
|                         |                                                                            | 452.6     | 26.27      | -19.73 | 46         | 31.31    | 23.16    | 2.89   | 31.09  |        |         | P       | H       |
|                         |                                                                            | 694.8     | 30.15      | -15.85 | 46         | 30.88    | 26.34    | 3.65   | 30.72  |        |         | P       | H       |
|                         |                                                                            | 898.5     | 34.05      | -11.95 | 46         | 31.43    | 28.99    | 4.17   | 30.54  |        |         | P       | H       |
|                         |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|                         |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|                         |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|                         |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|                         |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|                         |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|                         |                                                                            | 30.81     | 28.04      | -11.96 | 40         | 32.87    | 25.46    | 1.07   | 31.36  |        |         | P       | V       |
|                         |                                                                            | 235.74    | 25.87      | -20.13 | 46         | 37.53    | 17.68    | 2.07   | 31.41  |        |         | P       | V       |
|                         |                                                                            | 245.19    | 25.23      | -20.77 | 46         | 35.99    | 18.55    | 2.07   | 31.38  |        |         | P       | V       |
|                         |                                                                            | 430.9     | 26.93      | -19.07 | 46         | 32.33    | 22.83    | 2.89   | 31.12  |        |         | P       | V       |
|                         |                                                                            | 659.8     | 29.9       | -16.1  | 46         | 31.09    | 26       | 3.57   | 30.76  |        |         | P       | V       |
|                         |                                                                            | 951       | 34.47      | -11.53 | 46         | 30.73    | 30.2     | 4.07   | 30.53  | 100    | 0       | P       | V       |
|                         |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|                         |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|                         |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|                         |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|                         |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|                         |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|                         |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|                         |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
| Remark                  | 1. No other spurious found.<br>2. All results are PASS against limit line. |           |            |        |            |          |          |        |        |        |         |         |         |

## Emission below 1GHz

## 2.4GHz WIFI 802.11g (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.  |       |
| 2                       |                                                                            | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 2.4GHz<br>802.11g<br>LF |                                                                            | 87.51     | 28.98      | -11.02 | 40         | 44.5   | 14.74    | 1.28   | 31.54  | 100    | 0       | P     | H     |
|                         |                                                                            | 193.08    | 23.86      | -19.64 | 43.5       | 37.82  | 15.65    | 1.87   | 31.48  |        |         | P     | H     |
|                         |                                                                            | 242.49    | 33.09      | -12.91 | 46         | 44.14  | 18.27    | 2.07   | 31.39  |        |         | P     | H     |
|                         |                                                                            | 301.4     | 26.54      | -19.46 | 46         | 35.55  | 19.85    | 2.41   | 31.27  |        |         | P     | H     |
|                         |                                                                            | 694.8     | 29.41      | -16.59 | 46         | 30.14  | 26.34    | 3.65   | 30.72  |        |         | P     | H     |
|                         |                                                                            | 958       | 34.11      | -11.89 | 46         | 30.35  | 30.22    | 4.07   | 30.53  |        |         | P     | H     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                                                            | 34.32     | 28.55      | -11.45 | 40         | 35.05  | 23.84    | 1.07   | 31.41  | 100    | 0       | P     | V     |
|                         |                                                                            | 100.74    | 19.75      | -23.75 | 43.5       | 33.23  | 16.49    | 1.55   | 31.52  |        |         | P     | V     |
|                         |                                                                            | 236.55    | 26.12      | -19.88 | 46         | 37.69  | 17.76    | 2.07   | 31.4   |        |         | P     | V     |
|                         |                                                                            | 456.8     | 26.57      | -19.43 | 46         | 31.52  | 23.25    | 2.89   | 31.09  |        |         | P     | V     |
|                         |                                                                            | 723.5     | 30.33      | -15.67 | 46         | 30.5   | 26.78    | 3.74   | 30.69  |        |         | P     | V     |
|                         |                                                                            | 902.7     | 33.86      | -12.14 | 46         | 31.21  | 29.07    | 4.12   | 30.54  |        |         | P     | V     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | V     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | V     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | V     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | V     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | V     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
| Remark                  | 1. No other spurious found.<br>2. All results are PASS against limit line. |           |            |        |            |        |          |        |        |        |         |       |       |



## Emission below 1GHz

## 2.4GHz WIFI 802.11ac VHT20 (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.    |         |
| 2                                 |                                                                            | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 2.4GHz<br>802.11ac<br>VHT20<br>LF |                                                                            | 72.93     | 25.42      | -14.58 | 40         | 42.67    | 13.03    | 1.28   | 31.56  |        |         | P       | H       |
|                                   |                                                                            | 106.14    | 34.16      | -9.34  | 43.5       | 47.19    | 16.94    | 1.55   | 31.52  |        |         | P       | H       |
|                                   |                                                                            | 240.06    | 37.43      | -8.57  | 46         | 48.67    | 18.09    | 2.07   | 31.4   |        |         | P       | H       |
|                                   |                                                                            | 300       | 30.55      | -15.45 | 46         | 39.7     | 19.8     | 2.32   | 31.27  |        |         | P       | H       |
|                                   |                                                                            | 659.8     | 39.53      | -6.47  | 46         | 40.72    | 26       | 3.57   | 30.76  | 100    | 0       | P       | H       |
|                                   |                                                                            | 899.9     | 36.46      | -9.54  | 46         | 33.83    | 29       | 4.17   | 30.54  |        |         | P       | H       |
|                                   |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                   |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                   |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                   |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                   |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                   |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                   |                                                                            | 34.32     | 34.79      | -5.21  | 40         | 41.29    | 23.84    | 1.07   | 31.41  | 100    | 0       | P       | V       |
|                                   |                                                                            | 101.01    | 33.33      | -10.17 | 43.5       | 46.81    | 16.49    | 1.55   | 31.52  |        |         | P       | V       |
|                                   |                                                                            | 240.06    | 29.11      | -16.89 | 46         | 40.35    | 18.09    | 2.07   | 31.4   |        |         | P       | V       |
|                                   |                                                                            | 540.1     | 30.25      | -15.75 | 46         | 33.43    | 24.52    | 3.24   | 30.94  |        |         | P       | V       |
|                                   |                                                                            | 659.8     | 36.58      | -9.42  | 46         | 37.77    | 26       | 3.57   | 30.76  |        |         | P       | V       |
|                                   |                                                                            | 780.2     | 35.73      | -10.27 | 46         | 34.95    | 27.5     | 3.9    | 30.62  |        |         | P       | V       |
|                                   |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                   |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                   |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                   |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                   |                                                                            |           |            |        |            |          |          |        |        |        |         |         | 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 HT40 (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.  |       |
| 2                                   |                                                                            | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 2.4GHz<br>802.11n<br><br>HT40<br>LF |                                                                            | 89.4      | 32.07      | -11.43 | 43.5       | 47.35  | 14.98    | 1.28   | 31.54  |        |         | P     | H     |
|                                     |                                                                            | 114.51    | 29.16      | -14.34 | 43.5       | 41.55  | 17.57    | 1.55   | 31.51  |        |         | P     | H     |
|                                     |                                                                            | 240.06    | 37.52      | -8.48  | 46         | 48.76  | 18.09    | 2.07   | 31.4   |        |         | P     | H     |
|                                     |                                                                            | 300       | 29.39      | -16.61 | 46         | 38.54  | 19.8     | 2.32   | 31.27  |        |         | P     | H     |
|                                     |                                                                            | 659.8     | 37.71      | -8.29  | 46         | 38.9   | 26       | 3.57   | 30.76  |        |         | P     | H     |
|                                     |                                                                            | 780.2     | 38.57      | -7.43  | 46         | 37.79  | 27.5     | 3.9    | 30.62  | 100    | 0       | P     | H     |
|                                     |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                     |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                     |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                     |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                     |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                     |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                     |                                                                            | 35.13     | 35.52      | -4.48  | 40         | 42.56  | 23.3     | 1.07   | 31.41  | 100    | 0       | P     | V     |
|                                     |                                                                            | 102.9     | 32.56      | -10.94 | 43.5       | 45.86  | 16.67    | 1.55   | 31.52  |        |         | P     | V     |
|                                     |                                                                            | 240.06    | 28.73      | -17.27 | 46         | 39.97  | 18.09    | 2.07   | 31.4   |        |         | P     | V     |
|                                     |                                                                            | 483.4     | 27.37      | -18.63 | 46         | 31.56  | 23.82    | 3.04   | 31.05  |        |         | P     | V     |
|                                     |                                                                            | 659.8     | 35.74      | -10.26 | 46         | 36.93  | 26       | 3.57   | 30.76  |        |         | P     | V     |
|                                     |                                                                            | 969.2     | 34.67      | -19.33 | 54         | 30.89  | 30.24    | 4.07   | 30.53  |        |         | P     | V     |
|                                     |                                                                            |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                     |                                                                            |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                     |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                     |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                     |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                     |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                     |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against limit line. |           |            |        |            |        |          |        |        |        |         |       |       |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11b (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 )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11b<br>CH 01<br>2412MHz |      | 2387.6    | 54.94      | -19.06 | 74         | 50.04    | 31.93    | 7.31   | 34.34  | 273    | 152     | P     | H     |
|                             |      | 2390      | 44.88      | -9.12  | 54         | 39.97    | 31.93    | 7.31   | 34.33  | 273    | 152     | A     | H     |
|                             | *    | 2412      | 106.64     | -      | -          | 101.65   | 31.98    | 7.31   | 34.3   | 273    | 152     | P     | H     |
|                             | *    | 2412      | 103.6      | -      | -          | 98.61    | 31.98    | 7.31   | 34.3   | 273    | 152     | A     | H     |
|                             |      |           |            |        |            |          |          |        |        |        |         |       | H     |
|                             |      |           |            |        |            |          |          |        |        |        |         |       | H     |
|                             |      | 2343.92   | 54.9       | -19.1  | 74         | 50.27    | 31.8     | 7.24   | 34.41  | 102    | 296     | P     | V     |
|                             |      | 2390      | 44.77      | -9.23  | 54         | 39.86    | 31.93    | 7.31   | 34.33  | 102    | 296     | A     | V     |
|                             | *    | 2412      | 108.43     | -      | -          | 103.44   | 31.98    | 7.31   | 34.3   | 102    | 296     | P     | V     |
|                             | *    | 2412      | 105.31     | -      | -          | 100.32   | 31.98    | 7.31   | 34.3   | 102    | 296     | P     | V     |
|                             |      |           |            |        |            |          |          |        |        |        |         |       | V     |
|                             |      |           |            |        |            |          |          |        |        |        |         |       | V     |
| 802.11b<br>CH 06<br>2437MHz |      | 2389.66   | 55.13      | -18.87 | 74         | 50.22    | 31.93    | 7.31   | 34.33  | 296    | 154     | P     | H     |
|                             |      | 2389.38   | 44.35      | -9.65  | 54         | 39.44    | 31.93    | 7.31   | 34.33  | 296    | 154     | A     | H     |
|                             | *    | 2437      | 106.19     | -      | -          | 101.01   | 32.07    | 7.36   | 34.25  | 296    | 154     | P     | H     |
|                             | *    | 2437      | 103.2      | -      | -          | 98.02    | 32.07    | 7.36   | 34.25  | 296    | 154     | A     | H     |
|                             |      | 2489.64   | 55.53      | -18.47 | 74         | 50.1     | 32.2     | 7.4    | 34.17  | 296    | 154     | P     | H     |
|                             |      | 2489.64   | 44.93      | -9.07  | 54         | 39.5     | 32.2     | 7.4    | 34.17  | 296    | 154     | A     | H     |
|                             |      | 2366.14   | 55.31      | -18.69 | 74         | 50.6     | 31.84    | 7.24   | 34.37  | 100    | 243     | P     | V     |
|                             |      | 2389.94   | 44.4       | -9.6   | 54         | 39.49    | 31.93    | 7.31   | 34.33  | 100    | 243     | A     | V     |
|                             | *    | 2437      | 108.04     | -      | -          | 102.86   | 32.07    | 7.36   | 34.25  | 100    | 243     | P     | V     |
|                             | *    | 2437      | 105.01     | -      | -          | 99.83    | 32.07    | 7.36   | 34.25  | 100    | 243     | A     | V     |
|                             |      | 2484.39   | 55.13      | -18.87 | 74         | 49.75    | 32.16    | 7.4    | 34.18  | 100    | 243     | P     | V     |
|                             |      | 2489.57   | 45.1       | -8.9   | 54         | 39.67    | 32.2     | 7.4    | 34.17  | 100    | 243     | A     | V     |



|                                      |                                                                                             |         |        |        |    |        |       |     |       |     |     |   |   |
|--------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|--------|-------|-----|-------|-----|-----|---|---|
| <b>802.11b<br/>CH 11<br/>2462MHz</b> | *                                                                                           | 2462    | 105.98 | -      | -  | 100.68 | 32.11 | 7.4 | 34.21 | 266 | 155 | P | H |
|                                      | *                                                                                           | 2462    | 102.98 | -      | -  | 97.68  | 32.11 | 7.4 | 34.21 | 266 | 155 | A | H |
|                                      |                                                                                             | 2494.28 | 55.79  | -18.21 | 74 | 50.35  | 32.2  | 7.4 | 34.16 | 266 | 155 | P | H |
|                                      |                                                                                             | 2483.52 | 45.33  | -8.67  | 54 | 39.95  | 32.16 | 7.4 | 34.18 | 266 | 155 | A | H |
|                                      |                                                                                             |         |        |        |    |        |       |     |       |     |     |   | H |
|                                      |                                                                                             |         |        |        |    |        |       |     |       |     |     |   | H |
|                                      | *                                                                                           | 2462    | 108.89 | -      | -  | 103.59 | 32.11 | 7.4 | 34.21 | 100 | 233 | P | V |
|                                      | *                                                                                           | 2462    | 105.84 | -      | -  | 100.54 | 32.11 | 7.4 | 34.21 | 100 | 233 | A | V |
|                                      |                                                                                             | 2486.68 | 56.95  | -17.05 | 74 | 51.56  | 32.16 | 7.4 | 34.17 | 100 | 233 | P | V |
|                                      |                                                                                             | 2483.52 | 45.54  | -8.46  | 54 | 40.16  | 32.16 | 7.4 | 34.18 | 100 | 233 | A | V |
|                                      |                                                                                             |         |        |        |    |        |       |     |       |     |     |   | V |
|                                      |                                                                                             |         |        |        |    |        |       |     |       |     |     |   | V |
| <b>Remark</b>                        | 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+2         | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | 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                 | 48.91               | -25.09                  | 74                          | 62.07                     | 34.2                          | 11.68                   | 59.04                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 4824                 | 49.37               | -24.63                  | 74                          | 62.53                     | 34.2                          | 11.68                   | 59.04                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11b<br>CH 06<br>2437MHz |                                                                                             | 4872                 | 44.12               | -29.88                  | 74                          | 57.3                      | 34.23                         | 11.53                   | 58.94                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 7308                 | 41.99               | -32.01                  | 74                          | 50.51                     | 35.6                          | 13.81                   | 57.93                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 4872                 | 43                  | -31                     | 74                          | 56.18                     | 34.23                         | 11.53                   | 58.94                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 7308                 | 40.66               | -33.34                  | 74                          | 49.18                     | 35.6                          | 13.81                   | 57.93                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11b<br>CH 11<br>2462MHz |                                                                                             | 4926                 | 45.74               | -28.26                  | 74                          | 58.95                     | 34.26                         | 11.37                   | 58.84                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 7386                 | 41.56               | -32.44                  | 74                          | 50.07                     | 35.6                          | 13.95                   | 58.06                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 4926                 | 45.88               | -28.12                  | 74                          | 59.09                     | 34.26                         | 11.37                   | 58.84                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 7386                 | 41.34               | -32.66                  | 74                          | 49.85                     | 35.6                          | 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**  
**WIFI 802.11g (Band Edge @ 3m)**

| WIFI<br>Ant.<br>1+2                  | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | 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 ) |
|--------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| <b>802.11g<br/>CH 01<br/>2412MHz</b> |      | 2390                 | 57.76               | -16.24                  | 74                          | 52.85                     | 31.93                         | 7.31                    | 34.33                      | 200                  | 156                     | P                       | H               |
|                                      |      | 2390                 | 49.57               | -4.43                   | 54                          | 44.66                     | 31.93                         | 7.31                    | 34.33                      | 200                  | 156                     | A                       | H               |
|                                      | *    | 2412                 | 108.34              | -                       | -                           | 103.35                    | 31.98                         | 7.31                    | 34.3                       | 200                  | 156                     | P                       | H               |
|                                      | *    | 2412                 | 100.67              | -                       | -                           | 95.68                     | 31.98                         | 7.31                    | 34.3                       | 200                  | 156                     | A                       | H               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |      | 2390                 | 59.01               | -14.99                  | 74                          | 54.1                      | 31.93                         | 7.31                    | 34.33                      | 100                  | 227                     | P                       | V               |
|                                      |      | 2390                 | 50.7                | -3.3                    | 54                          | 45.79                     | 31.93                         | 7.31                    | 34.33                      | 100                  | 227                     | A                       | V               |
|                                      | *    | 2412                 | 108.7               | -                       | -                           | 103.71                    | 31.98                         | 7.31                    | 34.3                       | 100                  | 227                     | P                       | V               |
|                                      | *    | 2412                 | 101.61              | -                       | -                           | 96.62                     | 31.98                         | 7.31                    | 34.3                       | 100                  | 227                     | A                       | V               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| <b>802.11g<br/>CH 06<br/>2437MHz</b> |      | 2355.36              | 55.53               | -18.47                  | 74                          | 50.84                     | 31.84                         | 7.24                    | 34.39                      | 203                  | 184                     | P                       | H               |
|                                      |      | 2389.38              | 45.37               | -8.63                   | 54                          | 40.46                     | 31.93                         | 7.31                    | 34.33                      | 203                  | 184                     | A                       | H               |
|                                      | *    | 2437                 | 108.82              | -                       | -                           | 103.64                    | 32.07                         | 7.36                    | 34.25                      | 203                  | 184                     | P                       | H               |
|                                      | *    | 2437                 | 101.04              | -                       | -                           | 95.86                     | 32.07                         | 7.36                    | 34.25                      | 203                  | 184                     | A                       | H               |
|                                      |      | 2484.32              | 55.83               | -18.17                  | 74                          | 50.45                     | 32.16                         | 7.4                     | 34.18                      | 203                  | 184                     | P                       | H               |
|                                      |      | 2487.05              | 46.19               | -7.81                   | 54                          | 40.8                      | 32.16                         | 7.4                     | 34.17                      | 203                  | 184                     | A                       | H               |
|                                      |      | 2327.08              | 54.79               | -19.21                  | 74                          | 50.3                      | 31.75                         | 7.18                    | 34.44                      | 100                  | 237                     | P                       | V               |
|                                      |      | 2389.94              | 45.5                | -8.5                    | 54                          | 40.59                     | 31.93                         | 7.31                    | 34.33                      | 100                  | 237                     | A                       | V               |
|                                      | *    | 2437                 | 109.93              | -                       | -                           | 104.75                    | 32.07                         | 7.36                    | 34.25                      | 100                  | 237                     | P                       | V               |
|                                      | *    | 2437                 | 102.55              | -                       | -                           | 97.37                     | 32.07                         | 7.36                    | 34.25                      | 100                  | 237                     | A                       | V               |
|                                      |      | 2486.98              | 56.43               | -17.57                  | 74                          | 51.04                     | 32.16                         | 7.4                     | 34.17                      | 100                  | 237                     | P                       | V               |
|                                      |      | 2488.87              | 46.1                | -7.9                    | 54                          | 40.67                     | 32.2                          | 7.4                     | 34.17                      | 100                  | 237                     | A                       | V               |



|                                      |                                                                                             |         |        |        |    |        |       |     |       |     |     |   |   |
|--------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|--------|-------|-----|-------|-----|-----|---|---|
| <b>802.11g<br/>CH 11<br/>2462MHz</b> | *                                                                                           | 2462    | 109.23 | -      | -  | 103.93 | 32.11 | 7.4 | 34.21 | 198 | 183 | P | H |
|                                      | *                                                                                           | 2462    | 102    | -      | -  | 96.7   | 32.11 | 7.4 | 34.21 | 198 | 183 | A | H |
|                                      |                                                                                             | 2487.72 | 59.91  | -14.09 | 74 | 54.48  | 32.2  | 7.4 | 34.17 | 198 | 183 | P | H |
|                                      |                                                                                             | 2484.6  | 49.24  | -4.76  | 54 | 43.86  | 32.16 | 7.4 | 34.18 | 198 | 183 | A | H |
|                                      |                                                                                             |         |        |        |    |        |       |     |       |     |     |   | H |
|                                      |                                                                                             |         |        |        |    |        |       |     |       |     |     |   | H |
|                                      | *                                                                                           | 2462    | 110.83 | -      | -  | 105.53 | 32.11 | 7.4 | 34.21 | 102 | 232 | P | V |
|                                      | *                                                                                           | 2462    | 102.98 | -      | -  | 97.68  | 32.11 | 7.4 | 34.21 | 102 | 232 | A | V |
|                                      |                                                                                             | 2488.16 | 58.15  | -15.85 | 74 | 52.72  | 32.2  | 7.4 | 34.17 | 102 | 232 | P | V |
|                                      |                                                                                             | 2483.6  | 48.11  | -5.89  | 54 | 42.73  | 32.16 | 7.4 | 34.18 | 102 | 232 | A | V |
|                                      |                                                                                             |         |        |        |    |        |       |     |       |     |     |   | V |
|                                      |                                                                                             |         |        |        |    |        |       |     |       |     |     |   | V |
| <b>Remark</b>                        | 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+2         | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | 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                 | 45.08               | -28.92                  | 74                          | 58.24                     | 34.2                          | 11.68                   | 59.04                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 4824                 | 44.86               | -29.14                  | 74                          | 58.02                     | 34.2                          | 11.68                   | 59.04                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11g<br>CH 06<br>2437MHz |                                                                                             | 4872                 | 40.32               | -33.68                  | 74                          | 53.5                      | 34.23                         | 11.53                   | 58.94                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 7308                 | 40.72               | -33.28                  | 74                          | 49.24                     | 35.6                          | 13.81                   | 57.93                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 4872                 | 40.72               | -33.28                  | 74                          | 53.9                      | 34.23                         | 11.53                   | 58.94                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 7308                 | 41.3                | -32.7                   | 74                          | 49.82                     | 35.6                          | 13.81                   | 57.93                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11g<br>CH 11<br>2462MHz |                                                                                             | 4926                 | 41.57               | -32.43                  | 74                          | 54.78                     | 34.26                         | 11.37                   | 58.84                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 7386                 | 40.4                | -33.6                   | 74                          | 48.91                     | 35.6                          | 13.95                   | 58.06                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 4926                 | 42.57               | -31.43                  | 74                          | 55.78                     | 34.26                         | 11.37                   | 58.84                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 7386                 | 41.37               | -32.63                  | 74                          | 49.88                     | 35.6                          | 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**  
**WIFI 802.11ac VHT20 (Band Edge @ 3m)**

| WIFI<br>Ant.<br>1+2                   | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | 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 ) |
|---------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT20<br>CH 01<br>2412MHz |      | 2390                 | 57.62               | -16.38                  | 74                          | 52.71                     | 31.93                         | 7.31                    | 34.33                      | 214                  | 240                     | P                       | H               |
|                                       |      | 2389.91              | 47.87               | -6.13                   | 54                          | 42.96                     | 31.93                         | 7.31                    | 34.33                      | 214                  | 240                     | A                       | H               |
|                                       | *    | 2412                 | 107.6               | -                       | -                           | 102.61                    | 31.98                         | 7.31                    | 34.3                       | 214                  | 240                     | P                       | H               |
|                                       | *    | 2412                 | 99.88               | -                       | -                           | 94.89                     | 31.98                         | 7.31                    | 34.3                       | 214                  | 240                     | A                       | H               |
|                                       |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |      | 2389.91              | 57.43               | -16.57                  | 74                          | 52.52                     | 31.93                         | 7.31                    | 34.33                      | 101                  | 349                     | P                       | V               |
|                                       |      | 2390                 | 48.17               | -5.83                   | 54                          | 43.26                     | 31.93                         | 7.31                    | 34.33                      | 101                  | 349                     | A                       | V               |
|                                       | *    | 2412                 | 106.58              | -                       | -                           | 101.59                    | 31.98                         | 7.31                    | 34.3                       | 101                  | 349                     | P                       | V               |
|                                       | *    | 2412                 | 97.55               | -                       | -                           | 92.56                     | 31.98                         | 7.31                    | 34.3                       | 101                  | 349                     | A                       | V               |
|                                       |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                       |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT20<br>CH 06<br>2437MHz |      | 2386.16              | 55.32               | -18.68                  | 74                          | 50.42                     | 31.93                         | 7.31                    | 34.34                      | 209                  | 238                     | P                       | H               |
|                                       |      | 2389.66              | 45.33               | -8.67                   | 54                          | 40.42                     | 31.93                         | 7.31                    | 34.33                      | 209                  | 238                     | A                       | H               |
|                                       | *    | 2437                 | 107.66              | -                       | -                           | 102.48                    | 32.07                         | 7.36                    | 34.25                      | 209                  | 238                     | P                       | H               |
|                                       | *    | 2437                 | 99.6                | -                       | -                           | 94.42                     | 32.07                         | 7.36                    | 34.25                      | 209                  | 238                     | A                       | H               |
|                                       |      | 2489.22              | 55.93               | -18.07                  | 74                          | 50.5                      | 32.2                          | 7.4                     | 34.17                      | 209                  | 238                     | P                       | H               |
|                                       |      | 2486.63              | 46.16               | -7.84                   | 54                          | 40.77                     | 32.16                         | 7.4                     | 34.17                      | 209                  | 238                     | A                       | H               |
|                                       |      | 2332.96              | 55.19               | -18.81                  | 74                          | 50.69                     | 31.75                         | 7.18                    | 34.43                      | 102                  | 244                     | P                       | V               |
|                                       |      | 2379.16              | 45.19               | -8.81                   | 54                          | 40.41                     | 31.89                         | 7.24                    | 34.35                      | 102                  | 244                     | A                       | V               |
|                                       | *    | 2437                 | 107.25              | -                       | -                           | 102.07                    | 32.07                         | 7.36                    | 34.25                      | 102                  | 244                     | P                       | V               |
|                                       | *    | 2437                 | 98.18               | -                       | -                           | 93                        | 32.07                         | 7.36                    | 34.25                      | 102                  | 244                     | A                       | V               |
|                                       |      | 2492.23              | 56.01               | -17.99                  | 74                          | 50.57                     | 32.2                          | 7.4                     | 34.16                      | 102                  | 244                     | P                       | V               |
|                                       |      | 2490.97              | 46.96               | -7.04                   | 54                          | 41.52                     | 32.2                          | 7.4                     | 34.16                      | 102                  | 244                     | A                       | V               |



|                                                                   |                                                                                             |         |        |        |    |        |       |     |       |     |     |   |   |
|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|--------|-------|-----|-------|-----|-----|---|---|
| <b>802.11ac</b><br><b>VHT20</b><br><b>CH 11</b><br><b>2462MHz</b> | *                                                                                           | 2462    | 107.65 | -      | -  | 102.35 | 32.11 | 7.4 | 34.21 | 200 | 182 | P | H |
|                                                                   | *                                                                                           | 2462    | 98     | -      | -  | 92.7   | 32.11 | 7.4 | 34.21 | 200 | 182 | A | H |
|                                                                   |                                                                                             | 2486.84 | 57.15  | -16.85 | 74 | 51.76  | 32.16 | 7.4 | 34.17 | 200 | 182 | P | H |
|                                                                   |                                                                                             | 2487.6  | 47.13  | -6.87  | 54 | 41.7   | 32.2  | 7.4 | 34.17 | 200 | 182 | A | H |
|                                                                   |                                                                                             |         |        |        |    |        |       |     |       |     |     |   | H |
|                                                                   |                                                                                             |         |        |        |    |        |       |     |       |     |     |   | H |
|                                                                   | *                                                                                           | 2462    | 108.33 | -      | -  | 103.03 | 32.11 | 7.4 | 34.21 | 312 | 237 | P | V |
|                                                                   | *                                                                                           | 2462    | 99.69  | -      | -  | 94.39  | 32.11 | 7.4 | 34.21 | 312 | 237 | A | V |
|                                                                   |                                                                                             | 2487.44 | 57.3   | -16.7  | 74 | 51.91  | 32.16 | 7.4 | 34.17 | 312 | 237 | P | V |
|                                                                   |                                                                                             | 2484.24 | 47.56  | -6.44  | 54 | 42.18  | 32.16 | 7.4 | 34.18 | 312 | 237 | A | V |
|                                                                   |                                                                                             |         |        |        |    |        |       |     |       |     |     |   | V |
|                                                                   |                                                                                             |         |        |        |    |        |       |     |       |     |     |   | V |
| <b>Remark</b>                                                     | 3. No other spurious found.<br>4. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |     |       |     |     |   |   |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11ac VHT20 (Harmonic @ 3m)

| WIFI<br>Ant.<br>1+2                   | Note | Frequency<br>( MHz )                                      | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | 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 ) |
|---------------------------------------|------|-----------------------------------------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT20<br>CH 01<br>2412MHz |      | 4824                                                      | 46.26               | -27.74                  | 74                          | 59.42                     | 34.2                          | 11.68                   | 59.04                      | 100                  | 0                       | P                       | H               |
|                                       |      |                                                           |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |      |                                                           |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |      |                                                           |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |      | 4824                                                      | 46.56               | -27.44                  | 74                          | 59.72                     | 34.2                          | 11.68                   | 59.04                      | 100                  | 0                       | P                       | V               |
|                                       |      |                                                           |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                       |      |                                                           |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT20<br>CH 06<br>2437MHz |      | 4872                                                      | 40.4                | -33.6                   | 74                          | 53.58                     | 34.23                         | 11.53                   | 58.94                      | 100                  | 0                       | P                       | H               |
|                                       |      | 7308                                                      | 41.81               | -32.19                  | 74                          | 50.33                     | 35.6                          | 13.81                   | 57.93                      | 100                  | 0                       | P                       | H               |
|                                       |      |                                                           |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |      |                                                           |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |      | 4872                                                      | 40.3                | -33.7                   | 74                          | 53.48                     | 34.23                         | 11.53                   | 58.94                      | 100                  | 0                       | P                       | V               |
|                                       |      | 7308                                                      | 41.18               | -32.82                  | 74                          | 49.7                      | 35.6                          | 13.81                   | 57.93                      | 100                  | 0                       | P                       | V               |
|                                       |      |                                                           |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT20<br>CH 11<br>2462MHz |      | 4926                                                      | 41.63               | -32.37                  | 74                          | 54.84                     | 34.26                         | 11.37                   | 58.84                      | 100                  | 0                       | P                       | H               |
|                                       |      | 7386                                                      | 40.56               | -33.44                  | 74                          | 49.07                     | 35.6                          | 13.95                   | 58.06                      | 100                  | 0                       | P                       | H               |
|                                       |      |                                                           |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |      |                                                           |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |      | 4926                                                      | 43.81               | -30.19                  | 74                          | 57.02                     | 34.26                         | 11.37                   | 58.84                      | 100                  | 0                       | P                       | V               |
|                                       |      | 7386                                                      | 40.26               | -33.74                  | 74                          | 48.77                     | 35.6                          | 13.95                   | 58.06                      | 100                  | 0                       | P                       | V               |
|                                       |      |                                                           |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                                | 3.   | No other spurious found.                                  |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |
|                                       | 4.   | All results are PASS against Peak and Average limit line. |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11ac VHT40 (Band Edge @ 3m)

| WIFI<br>Ant.<br>1+2                   | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | 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 ) |
|---------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT40<br>CH 03<br>2422MHz |      | 2389.38              | 60.32               | -13.68                  | 74                          | 55.41                     | 31.93                         | 7.31                    | 34.33                      | 215                  | 71                      | P                       | H               |
|                                       |      | 2389.94              | 51.78               | -2.22                   | 54                          | 46.87                     | 31.93                         | 7.31                    | 34.33                      | 215                  | 71                      | A                       | H               |
|                                       | *    | 2422                 | 102.64              | -                       | -                           | 97.54                     | 32.02                         | 7.36                    | 34.28                      | 215                  | 71                      | P                       | H               |
|                                       | *    | 2422                 | 94.8                | -                       | -                           | 89.7                      | 32.02                         | 7.36                    | 34.28                      | 215                  | 71                      | A                       | H               |
|                                       |      | 2491.6               | 55.46               | -18.54                  | 74                          | 50.02                     | 32.2                          | 7.4                     | 34.16                      | 215                  | 71                      | P                       | H               |
|                                       |      | 2488.94              | 46.52               | -7.48                   | 54                          | 41.09                     | 32.2                          | 7.4                     | 34.17                      | 215                  | 71                      | A                       | H               |
|                                       |      | 2389.94              | 61.12               | -12.88                  | 74                          | 56.21                     | 31.93                         | 7.31                    | 34.33                      | 217                  | 296                     | P                       | V               |
|                                       |      | 2389.94              | 52.92               | -1.08                   | 54                          | 48.01                     | 31.93                         | 7.31                    | 34.33                      | 217                  | 296                     | P                       | V               |
|                                       | *    | 2422                 | 107.68              | -                       | -                           | 102.58                    | 32.02                         | 7.36                    | 34.28                      | 217                  | 296                     | P                       | V               |
|                                       | *    | 2422                 | 97.28               | -                       | -                           | 92.18                     | 32.02                         | 7.36                    | 34.28                      | 217                  | 296                     | A                       | V               |
|                                       |      | 2488.8               | 56.51               | -17.49                  | 74                          | 51.08                     | 32.2                          | 7.4                     | 34.17                      | 217                  | 296                     | P                       | V               |
|                                       |      | 2483.55              | 47.53               | -6.47                   | 54                          | 42.15                     | 32.16                         | 7.4                     | 34.18                      | 217                  | 296                     | A                       | V               |
| 802.11ac<br>VHT40<br>CH 06<br>2437MHz |      | 2389.94              | 55.87               | -18.13                  | 74                          | 50.96                     | 31.93                         | 7.31                    | 34.33                      | 224                  | 239                     | P                       | H               |
|                                       |      | 2389.8               | 48.01               | -5.99                   | 54                          | 43.1                      | 31.93                         | 7.31                    | 34.33                      | 224                  | 239                     | A                       | H               |
|                                       | *    | 2437                 | 105.03              | -                       | -                           | 99.85                     | 32.07                         | 7.36                    | 34.25                      | 224                  | 239                     | P                       | H               |
|                                       | *    | 2437                 | 97.29               | -                       | -                           | 92.11                     | 32.07                         | 7.36                    | 34.25                      | 224                  | 239                     | A                       | H               |
|                                       |      | 2483.76              | 56.83               | -17.17                  | 74                          | 51.45                     | 32.16                         | 7.4                     | 34.18                      | 224                  | 239                     | P                       | H               |
|                                       |      | 2484.25              | 47.71               | -6.29                   | 54                          | 42.33                     | 32.16                         | 7.4                     | 34.18                      | 224                  | 239                     | A                       | H               |
|                                       |      | 2389.94              | 56.28               | -17.72                  | 74                          | 51.37                     | 31.93                         | 7.31                    | 34.33                      | 221                  | 270                     | P                       | V               |
|                                       |      | 2389.94              | 48.08               | -5.92                   | 54                          | 43.17                     | 31.93                         | 7.31                    | 34.33                      | 221                  | 270                     | A                       | V               |
|                                       | *    | 2437                 | 107.59              | -                       | -                           | 102.41                    | 32.07                         | 7.36                    | 34.25                      | 221                  | 270                     | P                       | V               |
|                                       | *    | 2437                 | 97.13               | -                       | -                           | 91.95                     | 32.07                         | 7.36                    | 34.25                      | 221                  | 270                     | A                       | V               |
|                                       |      | 2486.91              | 56.2                | -17.8                   | 74                          | 50.81                     | 32.16                         | 7.4                     | 34.17                      | 221                  | 270                     | P                       | V               |
|                                       |      | 2484.88              | 46.8                | -7.2                    | 54                          | 41.42                     | 32.16                         | 7.4                     | 34.18                      | 221                  | 270                     | A                       | V               |



|                                                                               |                                                                                             |         |        |        |    |        |       |      |       |     |     |   |   |
|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|--------|-------|------|-------|-----|-----|---|---|
| <b>802.11ac</b><br><br><b>VHT40</b><br><br><b>CH 09</b><br><br><b>2452MHz</b> |                                                                                             | 2358.44 | 55.05  | -18.95 | 74 | 50.35  | 31.84 | 7.24 | 34.38 | 212 | 240 | P | H |
|                                                                               |                                                                                             | 2389.8  | 45.73  | -8.27  | 54 | 40.82  | 31.93 | 7.31 | 34.33 | 212 | 240 | A | H |
|                                                                               | *                                                                                           | 2452    | 104.71 | -      | -  | 99.51  | 32.07 | 7.36 | 34.23 | 212 | 240 | P | H |
|                                                                               | *                                                                                           | 2452    | 96.81  | -      | -  | 91.61  | 32.07 | 7.36 | 34.23 | 212 | 240 | A | H |
|                                                                               |                                                                                             | 2483.83 | 57.41  | -16.59 | 74 | 52.03  | 32.16 | 7.4  | 34.18 | 212 | 240 | P | H |
|                                                                               |                                                                                             | 2486.84 | 48.42  | -5.58  | 54 | 43.03  | 32.16 | 7.4  | 34.17 | 212 | 240 | A | H |
|                                                                               |                                                                                             | 2342.76 | 54.97  | -19.03 | 74 | 50.34  | 31.8  | 7.24 | 34.41 | 313 | 237 | P | V |
|                                                                               |                                                                                             | 2389.24 | 45.9   | -8.1   | 54 | 40.99  | 31.93 | 7.31 | 34.33 | 313 | 237 | A | V |
|                                                                               | *                                                                                           | 2452    | 105.82 | -      | -  | 100.62 | 32.07 | 7.36 | 34.23 | 313 | 237 | P | V |
|                                                                               | *                                                                                           | 2452    | 96.64  | -      | -  | 91.44  | 32.07 | 7.36 | 34.23 | 313 | 237 | A | V |
|                                                                               |                                                                                             | 2483.83 | 56.97  | -17.03 | 74 | 51.59  | 32.16 | 7.4  | 34.18 | 313 | 237 | P | V |
|                                                                               |                                                                                             | 2483.69 | 48.09  | -5.91  | 54 | 42.71  | 32.16 | 7.4  | 34.18 | 313 | 237 | A | V |
| <b>Remark</b>                                                                 | 3. No other spurious found.<br>4. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |      |       |     |     |   |   |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11ac VHT40 (Harmonic @ 3m)

| WIFI<br>Ant.<br>1+2                   | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | 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 ) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT40<br>CH 03<br>2422MHz |                                                                                             | 4842                 | 41.98               | -32.02                  | 74                          | 55.1                      | 34.21                         | 11.68                   | 59.01                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             | 7266                 | 40.65               | -33.35                  | 74                          | 49.19                     | 35.6                          | 13.75                   | 57.89                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 4842                 | 42.52               | -31.48                  | 74                          | 55.64                     | 34.21                         | 11.68                   | 59.01                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             | 7266                 | 41.47               | -32.53                  | 74                          | 50.01                     | 35.6                          | 13.75                   | 57.89                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT40<br>CH 06<br>2437MHz |                                                                                             | 4872                 | 40.45               | -33.55                  | 74                          | 53.63                     | 34.23                         | 11.53                   | 58.94                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             | 7308                 | 40.53               | -33.47                  | 74                          | 49.05                     | 35.6                          | 13.81                   | 57.93                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 4872                 | 39.58               | -34.42                  | 74                          | 52.76                     | 34.23                         | 11.53                   | 58.94                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             | 7308                 | 40.63               | -33.37                  | 74                          | 49.15                     | 35.6                          | 13.81                   | 57.93                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT40<br>CH 09<br>2452MHz |                                                                                             | 4902                 | 40.52               | -33.48                  | 74                          | 53.77                     | 34.25                         | 11.37                   | 58.87                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             | 7356                 | 40.65               | -33.35                  | 74                          | 49.18                     | 35.6                          | 13.88                   | 58.01                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 4902                 | 40.31               | -33.69                  | 74                          | 53.56                     | 34.25                         | 11.37                   | 58.87                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             | 7356                 | 41.79               | -32.21                  | 74                          | 50.32                     | 35.6                          | 13.88                   | 58.01                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                                | 3. No other spurious found.<br>4. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |

## Emission below 1GHz

## 2.4GHz WIFI 802.11b (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 )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 2.4GHz<br>802.11b<br>LF |                                             | 31.62     | 27.81      | -12.19 | 40         | 33.2   | 24.92    | 1.07   | 31.38  |        |         | P     | H     |
|                         |                                             | 102.09    | 31.98      | -11.52 | 43.5       | 45.37  | 16.58    | 1.55   | 31.52  |        |         | P     | H     |
|                         |                                             | 239.52    | 32.8       | -13.2  | 46         | 44.13  | 18       | 2.07   | 31.4   |        |         | P     | H     |
|                         |                                             | 302.1     | 26.41      | -19.59 | 46         | 35.39  | 19.88    | 2.41   | 31.27  |        |         | P     | H     |
|                         |                                             | 659.8     | 36.26      | -9.74  | 46         | 37.45  | 26       | 3.57   | 30.76  |        |         | P     | H     |
|                         |                                             | 780.2     | 37.12      | -8.88  | 46         | 36.34  | 27.5     | 3.9    | 30.62  | 100    | 0       | P     | H     |
|                         |                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                             | 32.97     | 33.47      | -6.53  | 40         | 39.41  | 24.38    | 1.07   | 31.39  | 100    | 0       | P     | V     |
|                         |                                             | 102.9     | 30.47      | -13.03 | 43.5       | 43.77  | 16.67    | 1.55   | 31.52  |        |         | P     | V     |
|                         |                                             | 236.55    | 27.89      | -18.11 | 46         | 39.46  | 17.76    | 2.07   | 31.4   |        |         | P     | V     |
|                         |                                             | 540.1     | 30.18      | -15.82 | 46         | 33.36  | 24.52    | 3.24   | 30.94  |        |         | P     | V     |
|                         |                                             | 659.8     | 34.12      | -11.88 | 46         | 35.31  | 26       | 3.57   | 30.76  |        |         | P     | V     |
|                         |                                             | 962.9     | 34.14      | -19.86 | 54         | 30.37  | 30.23    | 4.07   | 30.53  |        |         | P     | V     |
|                         |                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
|                         |                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
|                         |                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
|                         |                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
|                         |                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
|                         |                                             |           |            |        |            |        |          |        |        |        |         | V     |       |
|                         |                                             |           |            |        |            |        |          |        |        |        |         | V     |       |
| Remark                  | 3. No other spurious found.                 |           |            |        |            |        |          |        |        |        |         |       |       |
|                         | 4. All results are PASS against limit line. |           |            |        |            |        |          |        |        |        |         |       |       |

## Emission below 1GHz

## 2.4GHz WIFI 802.11g (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 )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 2.4GHz<br>802.11g<br>LF |                                             | 30        | 28.41      | -11.59 | 40         | 32.69  | 26       | 1.07   | 31.35  |        |         | P     | H     |
|                         |                                             | 88.59     | 30.86      | -12.64 | 43.5       | 46.26  | 14.86    | 1.28   | 31.54  |        |         | P     | H     |
|                         |                                             | 236.55    | 36.58      | -9.42  | 46         | 48.15  | 17.76    | 2.07   | 31.4   |        |         | P     | H     |
|                         |                                             | 659.8     | 37.43      | -8.57  | 46         | 38.62  | 26       | 3.57   | 30.76  |        |         | P     | H     |
|                         |                                             | 780.2     | 39.15      | -6.85  | 46         | 38.37  | 27.5     | 3.9    | 30.62  | 100    | 0       | P     | H     |
|                         |                                             | 946.8     | 34.2       | -11.8  | 46         | 30.53  | 30.13    | 4.07   | 30.53  |        |         | P     | H     |
|                         |                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                             | 34.86     | 30.19      | -9.81  | 40         | 37.23  | 23.3     | 1.07   | 31.41  | 100    | 0       | P     | V     |
|                         |                                             | 101.55    | 24.51      | -18.99 | 43.5       | 37.9   | 16.58    | 1.55   | 31.52  |        |         | P     | V     |
|                         |                                             | 236.55    | 26.2       | -19.8  | 46         | 37.77  | 17.76    | 2.07   | 31.4   |        |         | P     | V     |
|                         |                                             | 540.1     | 29.83      | -16.17 | 46         | 33.01  | 24.52    | 3.24   | 30.94  |        |         | P     | V     |
|                         |                                             | 659.8     | 33.08      | -12.92 | 46         | 34.27  | 26       | 3.57   | 30.76  |        |         | P     | V     |
|                         |                                             | 848.1     | 33.97      | -12.03 | 46         | 31.78  | 28.66    | 4.1    | 30.57  |        |         | P     | V     |
|                         |                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
|                         |                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
|                         |                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
|                         |                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
|                         |                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
|                         |                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
| Remark                  | 3. No other spurious found.                 |           |            |        |            |        |          |        |        |        |         |       |       |
|                         | 4. All results are PASS against limit line. |           |            |        |            |        |          |        |        |        |         |       |       |



## Emission below 1GHz

## 2.4GHz WIFI 802.11ac VHT20 (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 )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 2.4GHz<br>802.11ac<br>VHT20<br>LF |                                                                            | 30.27     | 28.15      | -11.85 | 40         | 32.43    | 26       | 1.07   | 31.35  |        |         | P       | H       |
|                                   |                                                                            | 101.82    | 28.79      | -14.71 | 43.5       | 42.18    | 16.58    | 1.55   | 31.52  |        |         | P       | H       |
|                                   |                                                                            | 236.55    | 35.65      | -10.35 | 46         | 47.22    | 17.76    | 2.07   | 31.4   |        |         | P       | H       |
|                                   |                                                                            | 454       | 27.86      | -18.14 | 46         | 32.88    | 23.18    | 2.89   | 31.09  |        |         | P       | H       |
|                                   |                                                                            | 780.2     | 35.32      | -10.68 | 46         | 34.54    | 27.5     | 3.9    | 30.62  | 100    | 0       | P       | H       |
|                                   |                                                                            | 924.4     | 33.35      | -12.65 | 46         | 30.18    | 29.59    | 4.12   | 30.54  |        |         | P       | H       |
|                                   |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                   |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                   |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                   |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                   |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                   |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                   |                                                                            | 34.86     | 35.67      | -4.33  | 40         | 42.71    | 23.3     | 1.07   | 31.41  | 100    | 0       | P       | V       |
|                                   |                                                                            | 102.36    | 31.74      | -11.76 | 43.5       | 45.04    | 16.67    | 1.55   | 31.52  |        |         | P       | V       |
|                                   |                                                                            | 240.6     | 26.12      | -19.88 | 46         | 37.35    | 18.09    | 2.07   | 31.39  |        |         | P       | V       |
|                                   |                                                                            | 419       | 25.32      | -20.68 | 46         | 31.12    | 22.67    | 2.67   | 31.14  |        |         | P       | V       |
|                                   |                                                                            | 659.8     | 34.56      | -11.44 | 46         | 35.75    | 26       | 3.57   | 30.76  |        |         | P       | V       |
|                                   |                                                                            | 780.2     | 33.96      | -12.04 | 46         | 33.18    | 27.5     | 3.9    | 30.62  |        |         | P       | V       |
|                                   |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                   |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                   |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                   |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                   |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                   |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                   |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                   |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
| Remark                            | 1. No other spurious found.<br>2. All results are PASS against limit line. |           |            |        |            |          |          |        |        |        |         |         |         |

## Emission below 1GHz

## 2.4GHz WIFI 802.11ac VHT40 (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 )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 2.4GHz<br>802.11ac<br><br>VHT40<br>LF |                                                                            | 30.27     | 27.78      | -12.22 | 40         | 32.06  | 26       | 1.07   | 31.35  |        |         | P     | H     |
|                                       |                                                                            | 89.94     | 28.65      | -14.85 | 43.5       | 43.81  | 15.1     | 1.28   | 31.54  |        |         | P     | H     |
|                                       |                                                                            | 236.55    | 37.49      | -8.51  | 46         | 49.06  | 17.76    | 2.07   | 31.4   |        |         | P     | H     |
|                                       |                                                                            | 300       | 26.88      | -19.12 | 46         | 36.03  | 19.8     | 2.32   | 31.27  |        |         | P     | H     |
|                                       |                                                                            | 540.1     | 31.13      | -14.87 | 46         | 34.31  | 24.52    | 3.24   | 30.94  |        |         | P     | H     |
|                                       |                                                                            | 659.8     | 37.88      | -8.12  | 46         | 39.07  | 26       | 3.57   | 30.76  | 100    | 0       | P     | H     |
|                                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                       |                                                                            | 35.13     | 33.01      | -6.99  | 40         | 40.05  | 23.3     | 1.07   | 31.41  | 100    | 0       | P     | V     |
|                                       |                                                                            | 101.55    | 28.48      | -15.02 | 43.5       | 41.87  | 16.58    | 1.55   | 31.52  |        |         | P     | V     |
|                                       |                                                                            | 236.55    | 28.8       | -17.2  | 46         | 40.37  | 17.76    | 2.07   | 31.4   |        |         | P     | V     |
|                                       |                                                                            | 540.1     | 30.18      | -15.82 | 46         | 33.36  | 24.52    | 3.24   | 30.94  |        |         | P     | V     |
|                                       |                                                                            | 659.8     | 34.44      | -11.56 | 46         | 35.63  | 26       | 3.57   | 30.76  |        |         | P     | V     |
|                                       |                                                                            | 780.2     | 33.24      | -12.76 | 46         | 32.46  | 27.5     | 3.9    | 30.62  |        |         | P     | V     |
|                                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                       |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                       |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                       |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                       |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                       |                                                                            |           |            |        |            |        |          |        |        |        |         | 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</b> or <b>Average</b>                                                                                                                            |
| H/V | <b>Horizontal</b> or <b>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 )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( 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(dBμV/m) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

**For Peak Limit @ 2390MHz:**

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

**For Average Limit @ 2390MHz:**

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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



**2.4GHz 2400~2483.5MHz**  
**WIFI 802.11g (Band Edge @ 3m)**

| WIFI<br>Ant.<br>1+2                  | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | 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 ) |
|--------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| <b>802.11g<br/>CH 01<br/>2412MHz</b> |      | 2390                 | 59.13               | -14.87                  | 74                          | 54.22                     | 31.93                         | 7.31                    | 34.33                      | 100                  | 269                     | P                       | H               |
|                                      |      | 2390                 | 47.55               | -6.45                   | 54                          | 42.64                     | 31.93                         | 7.31                    | 34.33                      | 100                  | 269                     | A                       | H               |
|                                      | *    | 2412                 | 110.27              | -                       | -                           | 105.28                    | 31.98                         | 7.31                    | 34.3                       | 100                  | 269                     | P                       | H               |
|                                      | *    | 2412                 | 102.76              | -                       | -                           | 97.77                     | 31.98                         | 7.31                    | 34.3                       | 100                  | 269                     | A                       | H               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |      | 2389.7               | 55.44               | -18.56                  | 74                          | 50.53                     | 31.93                         | 7.31                    | 34.33                      | 300                  | 194                     | P                       | V               |
|                                      |      | 2390                 | 46.84               | -7.16                   | 54                          | 41.93                     | 31.93                         | 7.31                    | 34.33                      | 300                  | 194                     | A                       | V               |
|                                      | *    | 2412                 | 107.94              | -                       | -                           | 102.95                    | 31.98                         | 7.31                    | 34.3                       | 300                  | 194                     | P                       | V               |
|                                      | *    | 2412                 | 101.78              | -                       | -                           | 96.79                     | 31.98                         | 7.31                    | 34.3                       | 300                  | 194                     | A                       | V               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| <b>802.11g<br/>CH 06<br/>2437MHz</b> |      | 2327.08              | 55.41               | -18.59                  | 74                          | 50.92                     | 31.75                         | 7.18                    | 34.44                      | 100                  | 266                     | P                       | H               |
|                                      |      | 2389.94              | 45.36               | -8.64                   | 54                          | 40.45                     | 31.93                         | 7.31                    | 34.33                      | 100                  | 266                     | A                       | H               |
|                                      | *    | 2437                 | 109.28              | -                       | -                           | 104.1                     | 32.07                         | 7.36                    | 34.25                      | 100                  | 266                     | P                       | H               |
|                                      | *    | 2437                 | 102.25              | -                       | -                           | 97.07                     | 32.07                         | 7.36                    | 34.25                      | 100                  | 266                     | A                       | H               |
|                                      |      | 2490.9               | 55.91               | -18.09                  | 74                          | 50.48                     | 32.2                          | 7.4                     | 34.17                      | 100                  | 266                     | P                       | H               |
|                                      |      | 2487.68              | 46.13               | -7.87                   | 54                          | 40.7                      | 32.2                          | 7.4                     | 34.17                      | 100                  | 266                     | A                       | H               |
|                                      |      | 2365.58              | 54.87               | -19.13                  | 74                          | 50.16                     | 31.84                         | 7.24                    | 34.37                      | 300                  | 190                     | P                       | V               |
|                                      |      | 2387.7               | 45.19               | -8.81                   | 54                          | 40.29                     | 31.93                         | 7.31                    | 34.34                      | 300                  | 190                     | A                       | V               |
|                                      | *    | 2437                 | 107.14              | -                       | -                           | 101.96                    | 32.07                         | 7.36                    | 34.25                      | 300                  | 190                     | P                       | V               |
|                                      | *    | 2437                 | 100.83              | -                       | -                           | 95.65                     | 32.07                         | 7.36                    | 34.25                      | 300                  | 190                     | A                       | V               |
|                                      |      | 2485.02              | 55.52               | -18.48                  | 74                          | 50.13                     | 32.16                         | 7.4                     | 34.17                      | 300                  | 190                     | P                       | V               |
|                                      |      | 2489.57              | 45.95               | -8.05                   | 54                          | 40.52                     | 32.2                          | 7.4                     | 34.17                      | 300                  | 190                     | A                       | V               |



|                                      |                                                                                             |         |        |        |    |        |       |     |       |     |     |   |   |
|--------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|--------|-------|-----|-------|-----|-----|---|---|
| <b>802.11g<br/>CH 11<br/>2462MHz</b> | *                                                                                           | 2462    | 110.71 | -      | -  | 105.41 | 32.11 | 7.4 | 34.21 | 100 | 101 | P | H |
|                                      | *                                                                                           | 2462    | 103.22 | -      | -  | 97.92  | 32.11 | 7.4 | 34.21 | 100 | 101 | P | H |
|                                      |                                                                                             | 2487.2  | 56.19  | -17.81 | 74 | 50.8   | 32.16 | 7.4 | 34.17 | 100 | 101 | P | H |
|                                      |                                                                                             | 2483.92 | 46.74  | -7.26  | 54 | 41.36  | 32.16 | 7.4 | 34.18 | 100 | 101 | A | H |
|                                      |                                                                                             |         |        |        |    |        |       |     |       |     |     |   | H |
|                                      |                                                                                             |         |        |        |    |        |       |     |       |     |     |   | H |
|                                      | *                                                                                           | 2462    | 107.49 | -      | -  | 102.19 | 32.11 | 7.4 | 34.21 | 316 | 105 | P | V |
|                                      | *                                                                                           | 2462    | 99.89  | -      | -  | 94.59  | 32.11 | 7.4 | 34.21 | 316 | 105 | A | V |
|                                      |                                                                                             | 2486.32 | 56.41  | -17.59 | 74 | 51.02  | 32.16 | 7.4 | 34.17 | 316 | 105 | P | V |
|                                      |                                                                                             | 2483.72 | 46.69  | -7.31  | 54 | 41.31  | 32.16 | 7.4 | 34.18 | 316 | 105 | A | V |
|                                      |                                                                                             |         |        |        |    |        |       |     |       |     |     |   | V |
|                                      |                                                                                             |         |        |        |    |        |       |     |       |     |     |   | V |
| <b>Remark</b>                        | 1. No other spurious found.<br>2. 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+2         | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | 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                 | 46.99               | -27.01                  | 74                          | 60.15                     | 34.2                          | 11.68                   | 59.04                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 4824                 | 44.92               | -29.08                  | 74                          | 58.08                     | 34.2                          | 11.68                   | 59.04                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11g<br>CH 06<br>2437MHz |                                                                                             | 4874                 | 41.67               | -32.33                  | 74                          | 54.85                     | 34.23                         | 11.53                   | 58.94                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 7311                 | 39.8                | -34.2                   | 74                          | 48.32                     | 35.6                          | 13.81                   | 57.93                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 4874                 | 40.24               | -33.76                  | 74                          | 53.42                     | 34.23                         | 11.53                   | 58.94                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 7311                 | 45.55               | -28.45                  | 74                          | 54.07                     | 35.6                          | 13.81                   | 57.93                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11g<br>CH 11<br>2462MHz |                                                                                             | 4924                 | 45.55               | -28.45                  | 74                          | 58.76                     | 34.26                         | 11.37                   | 58.84                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 7386                 | 39.09               | -34.91                  | 74                          | 47.6                      | 35.6                          | 13.95                   | 58.06                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 4924                 | 44.06               | -29.94                  | 74                          | 57.27                     | 34.26                         | 11.37                   | 58.84                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 7386                 | 39.62               | -34.38                  | 74                          | 48.13                     | 35.6                          | 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. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



**2.4GHz 2400~2483.5MHz**  
**WIFI 802.11ac VHT20 (Band Edge @ 3m)**

| WIFI<br>Ant.<br>1+2                   | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | 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 ) |
|---------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT20<br>CH 01<br>2412MHz |      | 2381.51              | 55.92               | -18.08                  | 74                          | 51.07                     | 31.89                         | 7.31                    | 34.35                      | 100                  | 257                     | P                       | H               |
|                                       |      | 2390                 | 47.15               | -6.85                   | 54                          | 42.24                     | 31.93                         | 7.31                    | 34.33                      | 100                  | 257                     | A                       | H               |
|                                       | *    | 2412                 | 109.31              | -                       | -                           | 104.32                    | 31.98                         | 7.31                    | 34.3                       | 100                  | 257                     | P                       | H               |
|                                       | *    | 2412                 | 103.54              | -                       | -                           | 98.55                     | 31.98                         | 7.31                    | 34.3                       | 100                  | 257                     | A                       | H               |
|                                       |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |      | 2376.78              | 55.82               | -18.18                  | 74                          | 51.04                     | 31.89                         | 7.24                    | 34.35                      | 300                  | 197                     | P                       | V               |
|                                       |      | 2390                 | 45.65               | -8.35                   | 54                          | 40.74                     | 31.93                         | 7.31                    | 34.33                      | 300                  | 197                     | A                       | V               |
|                                       | *    | 2412                 | 105.81              | -                       | -                           | 100.82                    | 31.98                         | 7.31                    | 34.3                       | 300                  | 197                     | P                       | V               |
|                                       | *    | 2412                 | 102.09              | -                       | -                           | 97.1                      | 31.98                         | 7.31                    | 34.3                       | 300                  | 197                     | A                       | V               |
|                                       |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                       |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT20<br>CH 06<br>2437MHz |      | 2348.78              | 55.19               | -18.81                  | 74                          | 50.55                     | 31.8                          | 7.24                    | 34.4                       | 100                  | 278                     | P                       | H               |
|                                       |      | 2387.42              | 45.54               | -8.46                   | 54                          | 40.64                     | 31.93                         | 7.31                    | 34.34                      | 100                  | 278                     | A                       | H               |
|                                       | *    | 2437                 | 108.18              | -                       | -                           | 103                       | 32.07                         | 7.36                    | 34.25                      | 100                  | 278                     | P                       | H               |
|                                       | *    | 2438                 | 103.46              | -                       | -                           | 98.28                     | 32.07                         | 7.36                    | 34.25                      | 100                  | 278                     | P                       | H               |
|                                       |      | 2495.87              | 56.86               | -17.14                  | 74                          | 51.42                     | 32.2                          | 7.4                     | 34.16                      | 100                  | 278                     | P                       | H               |
|                                       |      | 2488.52              | 46.86               | -7.14                   | 54                          | 41.43                     | 32.2                          | 7.4                     | 34.17                      | 100                  | 278                     | A                       | H               |
|                                       |      | 2389.38              | 56.32               | -17.68                  | 74                          | 51.41                     | 31.93                         | 7.31                    | 34.33                      | 300                  | 184                     | P                       | V               |
|                                       |      | 2387.56              | 45.94               | -8.06                   | 54                          | 41.04                     | 31.93                         | 7.31                    | 34.34                      | 300                  | 184                     | A                       | V               |
|                                       | *    | 2437                 | 104.71              | -                       | -                           | 99.53                     | 32.07                         | 7.36                    | 34.25                      | 300                  | 184                     | P                       | V               |
|                                       | *    | 2437                 | 100.58              | -                       | -                           | 95.4                      | 32.07                         | 7.36                    | 34.25                      | 300                  | 184                     | A                       | V               |
|                                       |      | 2492.65              | 56.29               | -17.71                  | 74                          | 50.85                     | 32.2                          | 7.4                     | 34.16                      | 300                  | 184                     | P                       | V               |
|                                       |      | 2489.22              | 46.51               | -7.49                   | 54                          | 41.08                     | 32.2                          | 7.4                     | 34.17                      | 300                  | 184                     | A                       | V               |



|                                                                   |                                                                                             |         |        |        |    |        |       |     |       |     |     |   |   |
|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|--------|-------|-----|-------|-----|-----|---|---|
| <b>802.11ac</b><br><b>VHT20</b><br><b>CH 11</b><br><b>2462MHz</b> | *                                                                                           | 2462    | 108.12 | -      | -  | 102.82 | 32.11 | 7.4 | 34.21 | 379 | 280 | P | H |
|                                                                   | *                                                                                           | 2462    | 103.82 | -      | -  | 98.52  | 32.11 | 7.4 | 34.21 | 379 | 280 | A | H |
|                                                                   |                                                                                             | 2484.4  | 56.83  | -17.17 | 74 | 51.45  | 32.16 | 7.4 | 34.18 | 379 | 280 | P | H |
|                                                                   |                                                                                             | 2483.52 | 47.22  | -6.78  | 54 | 41.84  | 32.16 | 7.4 | 34.18 | 379 | 280 | A | H |
|                                                                   |                                                                                             |         |        |        |    |        |       |     |       |     |     |   | H |
|                                                                   |                                                                                             |         |        |        |    |        |       |     |       |     |     |   | H |
|                                                                   | *                                                                                           | 2462    | 103.94 | -      | -  | 98.64  | 32.11 | 7.4 | 34.21 | 372 | 190 | P | V |
|                                                                   | *                                                                                           | 2462    | 99.25  | -      | -  | 93.95  | 32.11 | 7.4 | 34.21 | 372 | 190 | P | V |
|                                                                   |                                                                                             | 2497.24 | 56.69  | -17.31 | 74 | 51.24  | 32.2  | 7.4 | 34.15 | 372 | 190 | P | V |
|                                                                   |                                                                                             | 2496.48 | 46.55  | -7.45  | 54 | 41.11  | 32.2  | 7.4 | 34.16 | 372 | 190 | A | V |
|                                                                   |                                                                                             |         |        |        |    |        |       |     |       |     |     |   | V |
|                                                                   |                                                                                             |         |        |        |    |        |       |     |       |     |     |   | V |
| <b>Remark</b>                                                     | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |     |       |     |     |   |   |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11ac VHT20 (Harmonic @ 3m)

| WIFI<br>Ant.<br>1+2                   | Note                                                         | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | 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 ) |
|---------------------------------------|--------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT20<br>CH 01<br>2412MHz |                                                              | 4824                 | 45.51               | -28.49                  | 74                          | 58.67                     | 34.2                          | 11.68                   | 59.04                      | 100                  | 0                       | P                       | H               |
|                                       |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                              | 4824                 | 45.13               | -28.87                  | 74                          | 58.29                     | 34.2                          | 11.68                   | 59.04                      | 100                  | 0                       | P                       | V               |
|                                       |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                       |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT20<br>CH 06<br>2437MHz |                                                              | 4874                 | 41.66               | -32.34                  | 74                          | 54.84                     | 34.23                         | 11.53                   | 58.94                      | 100                  | 0                       | P                       | H               |
|                                       |                                                              | 7311                 | 39.33               | -34.67                  | 74                          | 47.85                     | 35.6                          | 13.81                   | 57.93                      | 100                  | 0                       | P                       | H               |
|                                       |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                              | 4874                 | 40.11               | -33.89                  | 74                          | 53.29                     | 34.23                         | 11.53                   | 58.94                      | 100                  | 0                       | P                       | V               |
|                                       |                                                              | 7311                 | 40.91               | -33.09                  | 74                          | 49.43                     | 35.6                          | 13.81                   | 57.93                      | 100                  | 0                       | P                       | V               |
|                                       |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT20<br>CH 11<br>2462MHz |                                                              | 4924                 | 42.53               | -31.47                  | 74                          | 55.74                     | 34.26                         | 11.37                   | 58.84                      | 100                  | 0                       | P                       | H               |
|                                       |                                                              | 7386                 | 39.35               | -34.65                  | 74                          | 47.86                     | 35.6                          | 13.95                   | 58.06                      | 100                  | 0                       | P                       | H               |
|                                       |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                              | 4924                 | 45.25               | -28.75                  | 74                          | 58.46                     | 34.26                         | 11.37                   | 58.84                      | 100                  | 0                       | P                       | V               |
|                                       |                                                              | 7386                 | 39.71               | -34.29                  | 74                          | 48.22                     | 35.6                          | 13.95                   | 58.06                      | 100                  | 0                       | P                       | V               |
|                                       |                                                              |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                                | 1. No other spurious found.                                  |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |
|                                       | 2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11ac VHT40 (Band Edge @ 3m)

| WIFI<br>Ant.<br>1+2                   | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | 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 ) |
|---------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT40<br>CH 03<br>2422MHz |      | 2389.66              | 55.91               | -18.09                  | 74                          | 51                        | 31.93                         | 7.31                    | 34.33                      | 301                  | 292                     | P                       | H               |
|                                       |      | 2389.94              | 48.79               | -5.21                   | 54                          | 43.88                     | 31.93                         | 7.31                    | 34.33                      | 301                  | 292                     | A                       | H               |
|                                       | *    | 2422                 | 109.11              | -                       | -                           | 104.01                    | 32.02                         | 7.36                    | 34.28                      | 301                  | 292                     | P                       | H               |
|                                       | *    | 2422                 | 105.23              | -                       | -                           | 100.13                    | 32.02                         | 7.36                    | 34.28                      | 301                  | 292                     | A                       | H               |
|                                       |      | 2490.41              | 56.62               | -17.38                  | 74                          | 51.19                     | 32.2                          | 7.4                     | 34.17                      | 301                  | 292                     | P                       | H               |
|                                       |      | 2489.57              | 47.59               | -6.41                   | 54                          | 42.16                     | 32.2                          | 7.4                     | 34.17                      | 301                  | 292                     | A                       | H               |
|                                       |      | 2324.14              | 56.06               | -17.94                  | 74                          | 51.57                     | 31.75                         | 7.18                    | 34.44                      | 380                  | 194                     | P                       | V               |
|                                       |      | 2389.24              | 47.86               | -6.14                   | 54                          | 42.95                     | 31.93                         | 7.31                    | 34.33                      | 380                  | 194                     | A                       | V               |
|                                       | *    | 2422                 | 102.21              | -                       | -                           | 97.11                     | 32.02                         | 7.36                    | 34.28                      | 380                  | 194                     | P                       | V               |
|                                       | *    | 2422                 | 98.72               | -                       | -                           | 93.62                     | 32.02                         | 7.36                    | 34.28                      | 380                  | 194                     | A                       | V               |
|                                       |      | 2490.27              | 56.58               | -17.42                  | 74                          | 51.15                     | 32.2                          | 7.4                     | 34.17                      | 380                  | 194                     | P                       | V               |
|                                       |      | 2484.81              | 47.26               | -6.74                   | 54                          | 41.88                     | 32.16                         | 7.4                     | 34.18                      | 380                  | 194                     | A                       | V               |
| 802.11ac<br>VHT40<br>CH 06<br>2437MHz |      | 2367.12              | 55.31               | -18.69                  | 74                          | 50.6                      | 31.84                         | 7.24                    | 34.37                      | 300                  | 280                     | P                       | H               |
|                                       |      | 2382.38              | 46.57               | -7.43                   | 54                          | 41.72                     | 31.89                         | 7.31                    | 34.35                      | 300                  | 280                     | A                       | H               |
|                                       | *    | 2424                 | 108.52              | -                       | -                           | 103.42                    | 32.02                         | 7.36                    | 34.28                      | 300                  | 280                     | P                       | H               |
|                                       | *    | 2430                 | 104.43              | -                       | -                           | 99.32                     | 32.02                         | 7.36                    | 34.27                      | 300                  | 280                     | P                       | H               |
|                                       |      | 2485.79              | 56.66               | -17.34                  | 74                          | 51.27                     | 32.16                         | 7.4                     | 34.17                      | 300                  | 280                     | P                       | H               |
|                                       |      | 2485.51              | 49.62               | -4.38                   | 54                          | 44.23                     | 32.16                         | 7.4                     | 34.17                      | 300                  | 280                     | A                       | H               |
|                                       |      | 2356.06              | 55.84               | -18.16                  | 74                          | 51.15                     | 31.84                         | 7.24                    | 34.39                      | 302                  | 191                     | P                       | V               |
|                                       |      | 2386.72              | 46.99               | -7.01                   | 54                          | 42.09                     | 31.93                         | 7.31                    | 34.34                      | 302                  | 191                     | A                       | V               |
|                                       | *    | 2437                 | 103.9               | -                       | -                           | 98.72                     | 32.07                         | 7.36                    | 34.25                      | 302                  | 191                     | P                       | V               |
|                                       | *    | 2437                 | 100.19              | -                       | -                           | 95.01                     | 32.07                         | 7.36                    | 34.25                      | 302                  | 191                     | A                       | V               |
|                                       |      | 2496.15              | 56.99               | -17.01                  | 74                          | 51.55                     | 32.2                          | 7.4                     | 34.16                      | 302                  | 191                     | P                       | V               |
|                                       |      | 2484.46              | 47.87               | -6.13                   | 54                          | 42.49                     | 32.16                         | 7.4                     | 34.18                      | 302                  | 191                     | A                       | V               |



|                                                                   |                                                                                             |         |        |        |    |        |       |      |       |     |     |   |   |
|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|--------|-------|------|-------|-----|-----|---|---|
| <b>802.11ac</b><br><b>VHT40</b><br><b>CH 09</b><br><b>2452MHz</b> |                                                                                             | 2373.7  | 55.71  | -18.29 | 74 | 50.94  | 31.89 | 7.24 | 34.36 | 330 | 290 | P | H |
|                                                                   |                                                                                             | 2387.84 | 46.64  | -7.36  | 54 | 41.74  | 31.93 | 7.31 | 34.34 | 330 | 290 | A | H |
|                                                                   | *                                                                                           | 2452    | 107.99 | -      | -  | 102.79 | 32.07 | 7.36 | 34.23 | 330 | 290 | P | H |
|                                                                   | *                                                                                           | 2452    | 104.25 | -      | -  | 99.05  | 32.07 | 7.36 | 34.23 | 330 | 290 | P | H |
|                                                                   |                                                                                             | 2484.18 | 61.78  | -12.22 | 74 | 56.4   | 32.16 | 7.4  | 34.18 | 330 | 290 | P | H |
|                                                                   |                                                                                             | 2483.62 | 52.35  | -1.65  | 54 | 46.97  | 32.16 | 7.4  | 34.18 | 330 | 290 | A | H |
|                                                                   |                                                                                             | 2342.48 | 55.86  | -18.14 | 74 | 51.23  | 31.8  | 7.24 | 34.41 | 380 | 103 | P | V |
|                                                                   |                                                                                             | 2388.12 | 46.6   | -7.4   | 54 | 41.7   | 31.93 | 7.31 | 34.34 | 380 | 103 | A | V |
|                                                                   | *                                                                                           | 2452    | 104.49 | -      | -  | 99.29  | 32.07 | 7.36 | 34.23 | 380 | 103 | P | V |
|                                                                   | *                                                                                           | 2452    | 101.54 | -      | -  | 96.34  | 32.07 | 7.36 | 34.23 | 380 | 103 | A | V |
|                                                                   |                                                                                             | 2488.94 | 64.48  | -9.52  | 74 | 59.05  | 32.2  | 7.4  | 34.17 | 380 | 103 | P | V |
|                                                                   |                                                                                             | 2483.83 | 52.24  | -1.76  | 54 | 46.86  | 32.16 | 7.4  | 34.18 | 380 | 103 | P | V |
| <b>Remark</b>                                                     | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |      |       |     |     |   |   |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11ac VHT40 (Harmonic @ 3m)

| WIFI<br>Ant.<br>1+2                   | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | 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 ) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT40<br>CH 03<br>2422MHz |                                                                                             | 4844                 | 48.5                | -25.5                   | 74                          | 61.62                     | 34.21                         | 11.68                   | 59.01                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             | 7266                 | 39.77               | -34.23                  | 74                          | 48.31                     | 35.6                          | 13.75                   | 57.89                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 4844                 | 47.93               | -26.07                  | 74                          | 61.05                     | 34.21                         | 11.68                   | 59.01                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             | 7266                 | 39.49               | -34.51                  | 74                          | 48.03                     | 35.6                          | 13.75                   | 57.89                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT40<br>CH 06<br>2437MHz |                                                                                             | 4874                 | 44.31               | -29.69                  | 74                          | 57.49                     | 34.23                         | 11.53                   | 58.94                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             | 7311                 | 39.99               | -34.01                  | 74                          | 48.51                     | 35.6                          | 13.81                   | 57.93                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 4874                 | 45.23               | -28.77                  | 74                          | 58.41                     | 34.23                         | 11.53                   | 58.94                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             | 7311                 | 41.37               | -32.63                  | 74                          | 49.89                     | 35.6                          | 13.81                   | 57.93                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT40<br>CH 09<br>2452MHz |                                                                                             | 4904                 | 40.41               | -33.59                  | 74                          | 53.66                     | 34.25                         | 11.37                   | 58.87                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             | 7356                 | 38.43               | -35.57                  | 74                          | 46.96                     | 35.6                          | 13.88                   | 58.01                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 4904                 | 39.91               | -34.09                  | 74                          | 53.16                     | 34.25                         | 11.37                   | 58.87                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             | 7356                 | 38.7                | -35.3                   | 74                          | 47.23                     | 35.6                          | 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. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |

## Emission below 1GHz

## 2.4GHz WIFI 802.11g (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 )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 2.4GHz<br>802.11g<br>LF |                                                                            | 30.81     | 27.75      | -12.25 | 40         | 32.58  | 25.46    | 1.07   | 31.36  |        |         | P     | H     |
|                         |                                                                            | 104.79    | 33.12      | -10.38 | 43.5       | 46.24  | 16.85    | 1.55   | 31.52  | 100    | 0       | P     | H     |
|                         |                                                                            | 242.22    | 32.88      | -13.12 | 46         | 43.93  | 18.27    | 2.07   | 31.39  |        |         | P     | H     |
|                         |                                                                            | 423.2     | 26.36      | -19.64 | 46         | 31.89  | 22.72    | 2.89   | 31.14  |        |         | P     | H     |
|                         |                                                                            | 659.8     | 32.06      | -13.94 | 46         | 33.25  | 26       | 3.57   | 30.76  |        |         | P     | H     |
|                         |                                                                            | 780.2     | 34.05      | -11.95 | 46         | 33.27  | 27.5     | 3.9    | 30.62  |        |         | P     | H     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                                                            | 35.13     | 36.29      | -3.71  | 40         | 43.33  | 23.3     | 1.07   | 31.41  | 100    | 0       | P     | V     |
|                         |                                                                            | 99.93     | 29.88      | -13.62 | 43.5       | 43.72  | 16.4     | 1.28   | 31.52  |        |         | P     | V     |
|                         |                                                                            | 244.11    | 26.4       | -19.6  | 46         | 37.27  | 18.45    | 2.07   | 31.39  |        |         | P     | V     |
|                         |                                                                            | 520.5     | 27.72      | -18.28 | 46         | 31.2   | 24.36    | 3.14   | 30.98  |        |         | P     | V     |
|                         |                                                                            | 765.5     | 30.71      | -15.29 | 46         | 30.18  | 27.35    | 3.82   | 30.64  |        |         | P     | V     |
|                         |                                                                            | 908.3     | 34.7       | -11.3  | 46         | 31.93  | 29.19    | 4.12   | 30.54  |        |         | P     | V     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | V     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | V     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | V     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | V     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         |       | V     |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
|                         |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
| Remark                  | 1. No other spurious found.<br>2. All results are PASS against limit line. |           |            |        |            |        |          |        |        |        |         |       |       |

## Emission below 1GHz

## WIFI 802.11ac VHT20 (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 )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 2.4GHz<br>802.11ac<br><br>VHT20<br>LF |                                                                            | 30        | 28.1       | -11.9  | 40         | 32.38  | 26       | 1.07   | 31.35  |        |         | P     | H     |
|                                       |                                                                            | 104.79    | 31.12      | -12.38 | 43.5       | 44.24  | 16.85    | 1.55   | 31.52  |        |         | P     | H     |
|                                       |                                                                            | 240.06    | 36.87      | -9.13  | 46         | 48.11  | 18.09    | 2.07   | 31.4   | 100    | 0       | P     | H     |
|                                       |                                                                            | 302.8     | 27.9       | -18.1  | 46         | 36.88  | 19.88    | 2.41   | 31.27  |        |         | P     | H     |
|                                       |                                                                            | 540.1     | 29.68      | -16.32 | 46         | 32.86  | 24.52    | 3.24   | 30.94  |        |         | P     | H     |
|                                       |                                                                            | 780.2     | 33.65      | -12.35 | 46         | 32.87  | 27.5     | 3.9    | 30.62  |        |         | P     | H     |
|                                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                       |                                                                            | 34.59     | 29.55      | -10.45 | 40         | 36.59  | 23.3     | 1.07   | 31.41  | 100    | 0       | P     | V     |
|                                       |                                                                            | 63.21     | 23.79      | -16.21 | 40         | 41.88  | 12.21    | 1.28   | 31.58  |        |         | P     | V     |
|                                       |                                                                            | 240.06    | 26.54      | -19.46 | 46         | 37.78  | 18.09    | 2.07   | 31.4   |        |         | P     | V     |
|                                       |                                                                            | 452.6     | 25.81      | -20.19 | 46         | 30.85  | 23.16    | 2.89   | 31.09  |        |         | P     | V     |
|                                       |                                                                            | 540.1     | 29.72      | -16.28 | 46         | 32.9   | 24.52    | 3.24   | 30.94  |        |         | P     | V     |
|                                       |                                                                            | 919.5     | 33.85      | -12.15 | 46         | 30.8   | 29.47    | 4.12   | 30.54  |        |         | P     | V     |
|                                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                       |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                       |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                       |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                       |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                       |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against limit line. |           |            |        |            |        |          |        |        |        |         |       |       |



## Emission below 1GHz

## WIFI 802.11ac VHT40 (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 )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 2.4GHz<br>802.11ac<br>VHT40<br>LF |                                                                            | 30        | 27.89      | -12.11 | 40         | 32.17    | 26       | 1.07   | 31.35  |        |         | P       | H       |
|                                   |                                                                            | 101.82    | 33.39      | -10.11 | 43.5       | 46.78    | 16.58    | 1.55   | 31.52  | 100    | 0       | P       | H       |
|                                   |                                                                            | 239.52    | 33.24      | -12.76 | 46         | 44.57    | 18       | 2.07   | 31.4   |        |         | P       | H       |
|                                   |                                                                            | 302.1     | 26.9       | -19.1  | 46         | 35.88    | 19.88    | 2.41   | 31.27  |        |         | P       | H       |
|                                   |                                                                            | 659.8     | 35.23      | -10.77 | 46         | 36.42    | 26       | 3.57   | 30.76  |        |         | P       | H       |
|                                   |                                                                            | 780.2     | 34.92      | -11.08 | 46         | 34.14    | 27.5     | 3.9    | 30.62  |        |         | P       | H       |
|                                   |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                   |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                   |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                   |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                   |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                   |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                   |                                                                            | 34.86     | 29.21      | -10.79 | 40         | 36.25    | 23.3     | 1.07   | 31.41  | 100    | 0       | P       | V       |
|                                   |                                                                            | 99.93     | 23.95      | -19.55 | 43.5       | 37.79    | 16.4     | 1.28   | 31.52  |        |         | P       | V       |
|                                   |                                                                            | 240.06    | 27.06      | -18.94 | 46         | 38.3     | 18.09    | 2.07   | 31.4   |        |         | P       | V       |
|                                   |                                                                            | 465.9     | 26.16      | -19.84 | 46         | 30.75    | 23.44    | 3.04   | 31.07  |        |         | P       | V       |
|                                   |                                                                            | 659.8     | 30.47      | -15.53 | 46         | 31.66    | 26       | 3.57   | 30.76  |        |         | P       | V       |
|                                   |                                                                            | 932.8     | 34.26      | -11.74 | 46         | 30.87    | 29.8     | 4.12   | 30.53  |        |         | P       | V       |
|                                   |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                   |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                   |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                   |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                   |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                   |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                   |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                   |                                                                            |           |            |        |            |          |          |        |        |        |         |         | 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</b> or <b>Average</b>                                                                                                                            |
| H/V | <b>Horizontal</b> or <b>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 )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( 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(dBμV/m) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

**For Peak Limit @ 2390MHz:**

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

**For Average Limit @ 2390MHz:**

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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



## **Appendix C. Radiated Spurious Emission Plots**

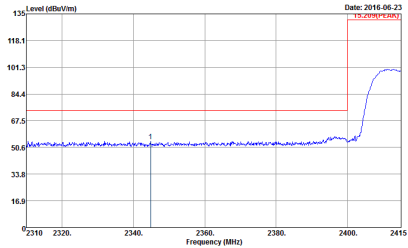
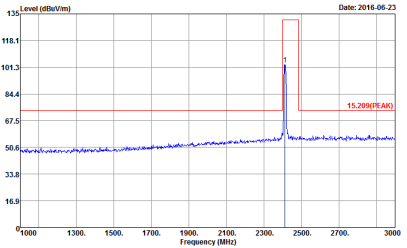
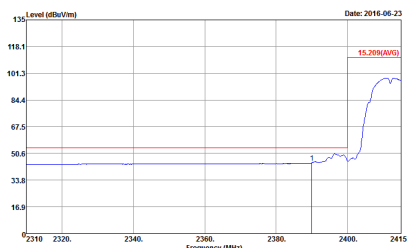
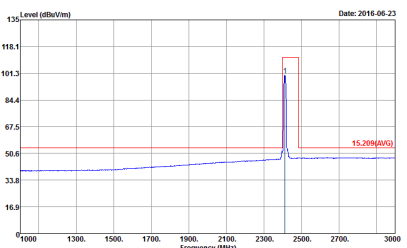
### **Note symbol**

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

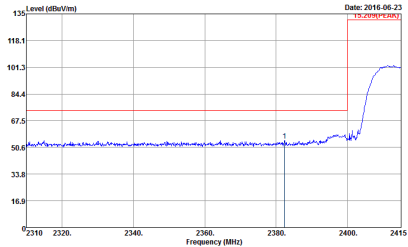
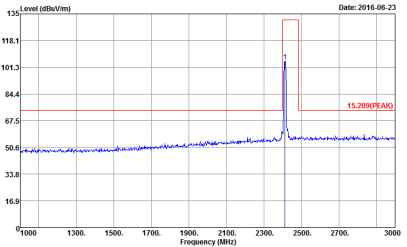
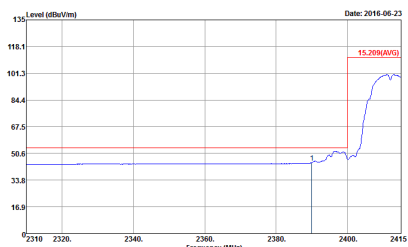
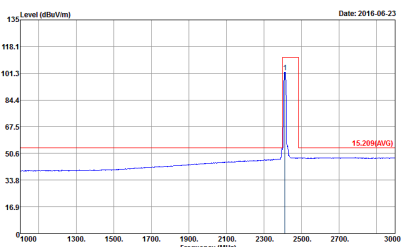


## 2.4GHz 2400~2483.5MHz

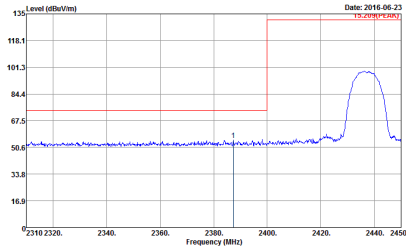
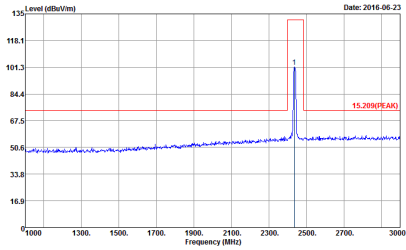
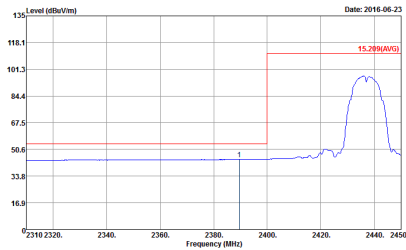
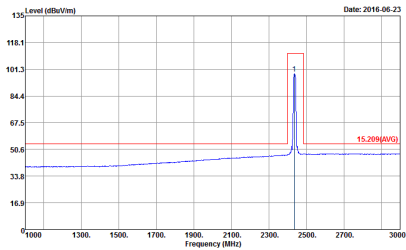
## WIFI 802.11b (Band Edge @ 3m)

| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                       |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11b CH01 2412MHz                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                       |
| 2    | Horizontal                                                                                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                                                                                           |
| Peak |  <p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 HORIZONTAL<br/>Detector : REW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Project : Peak<br/>Mode : 660115<br/>Date: 2016-06-23</p> |  <p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 HORIZONTAL<br/>Detector : REW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Project : Peak<br/>Mode : 660115<br/>Date: 2016-06-23</p> |
| Avg. |  <p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 HORIZONTAL<br/>Detector : REW:1000.000kHz VBW:0.010kHz SWT:Auto<br/>Project : Peak<br/>Mode : 660115<br/>Date: 2016-06-23</p>   |  <p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 HORIZONTAL<br/>Detector : REW:1000.000kHz VBW:0.010kHz SWT:Auto<br/>Project : Peak<br/>Mode : 660115<br/>Date: 2016-06-23</p>   |

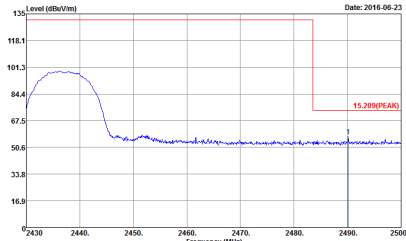
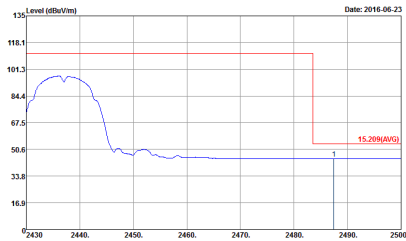


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                 |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11b CH01 2412MHz                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                 |
| 2    | Vertical                                                                                                                                                                                                                                                                       | Fundamental                                                                                                                                                                                                                                                                     |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 VERTICAL<br/>REW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 37</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 VERTICAL<br/>REW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 37</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 VERTICAL<br/>REW:1000.000kHz VBW:0.010kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 37</p></div>   | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 VERTICAL<br/>REW:1000.000kHz VBW:0.010kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 37</p></div>   |



| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                         |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11b CH06 2437MHz - L                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                         |
| 2    | Horizontal                                                                                                                                                                                                                                                             | Fundamental                                                                                                                                                                                                                                                             |
| Peak |  <p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 HORIZONTAL<br/>REW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 38</p> |  <p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 HORIZONTAL<br/>REW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 38</p> |
| Avg. |  <p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 HORIZONTAL<br/>REW:1000.000kHz VBW:0.010kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 38</p>   |  <p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 HORIZONTAL<br/>REW:1000.000kHz VBW:0.010kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 38</p>   |

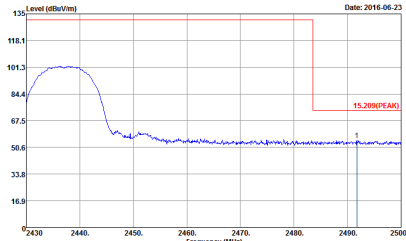
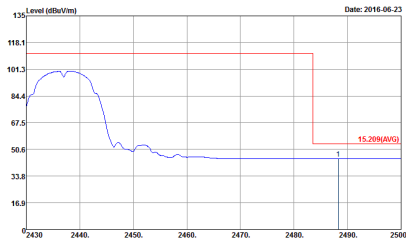


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                               |  |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| ANT  | 802.11b CH06 2437MHz - R                                                                                                                                                                                                                                                           |  |
| 2    | Horizontal                                                                                                                                                                                                                                                                         |  |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : 15.209/PEAK 3m HF-ANT_130829 HORIZONTAL<br/>RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 38</p></div> |  |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : 15.209/AVG 3m HF-ANT_130829 HORIZONTAL<br/>RBW: 1000.000kHz VBW: 0.010kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 38</p></div>   |  |

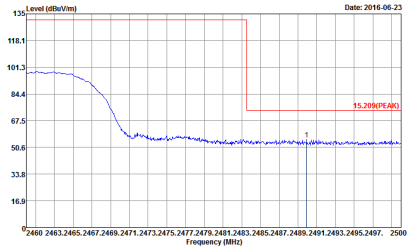
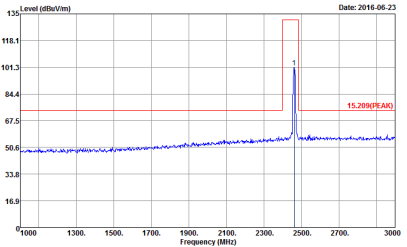
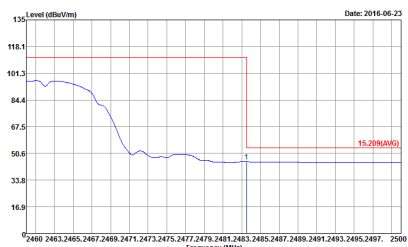
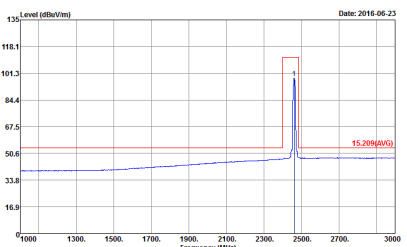


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11b CH06 2437MHz - L                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 2    | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Fundamental                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Peak | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The plot shows a peak at 2437 MHz with a level of 15.209 (PEAK). The x-axis ranges from 2310 to 2450 MHz, and the y-axis ranges from 16.9 to 135 dBuV/m. A red box highlights the peak area.</p> <p>Site : 03CH07-HY<br/>Condition : 15.209(PEAK) 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Project : Peak<br/>Mode : 660115<br/>Date: 2016-06-23</p> | <p>Level (dBuV/m) vs Frequency (MHz) plot for Fundamental polarization. The plot shows a peak at 2437 MHz with a level of 15.209 (PEAK). The x-axis ranges from 1000 to 3000 MHz, and the y-axis ranges from 16.9 to 135 dBuV/m. A red box highlights the peak area.</p> <p>Site : 03CH07-HY<br/>Condition : 15.209(PEAK) 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Project : Peak<br/>Mode : 660115<br/>Date: 2016-06-23</p> |
| Avg. | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The plot shows a peak at 2437 MHz with a level of 15.209 (AVG). The x-axis ranges from 2310 to 2450 MHz, and the y-axis ranges from 16.9 to 135 dBuV/m. A red box highlights the peak area.</p> <p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000kHz VBW:0.010kHz SWT:Auto<br/>Project : Peak<br/>Mode : 660115<br/>Date: 2016-06-23</p>      | <p>Level (dBuV/m) vs Frequency (MHz) plot for Fundamental polarization. The plot shows a peak at 2437 MHz with a level of 15.209 (AVG). The x-axis ranges from 1000 to 3000 MHz, and the y-axis ranges from 16.9 to 135 dBuV/m. A red box highlights the peak area.</p> <p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000kHz VBW:0.010kHz SWT:Auto<br/>Project : Peak<br/>Mode : 660115<br/>Date: 2016-06-23</p>      |

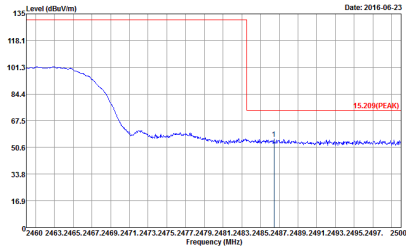
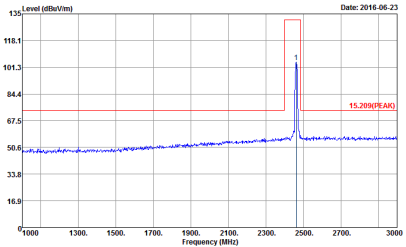
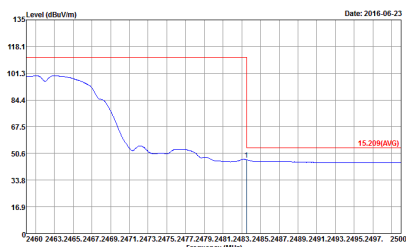
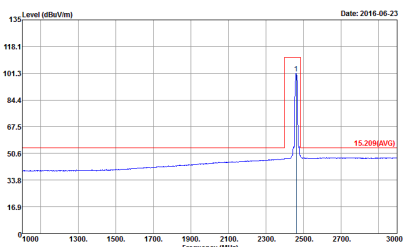


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                   |  |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| ANT  | 802.11b CH06 2437MHz - R                                                                                                                                                                                                                                               |  |
| 2    | Vertical                                                                                                                                                                                                                                                               |  |
| Peak |  <p>Site : 03CH07-HY<br/>Condition : 15.209/PEAK 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 38</p> |  |
| Avg. |  <p>Site : 03CH07-HY<br/>Condition : 15.209/AVG 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000kHz VBW: 0.010kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 38</p>   |  |



| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                   |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11b CH11 2462MHz                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                   |
| 2    | Horizontal                                                                                                                                                                                                                                                                       | Fundamental                                                                                                                                                                                                                                                                       |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 HORIZONTAL<br/>REW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 39</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 HORIZONTAL<br/>REW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 39</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 HORIZONTAL<br/>REW:1000.000kHz VBW:0.010kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 39</p></div>   | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 HORIZONTAL<br/>REW:1000.000kHz VBW:0.010kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 39</p></div>   |



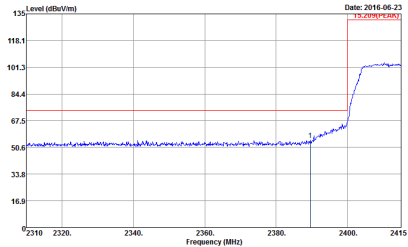
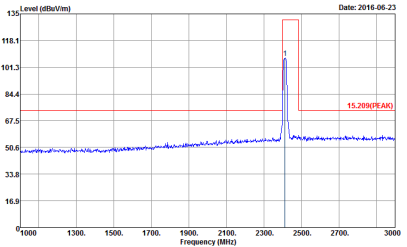
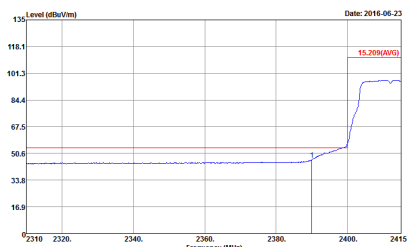
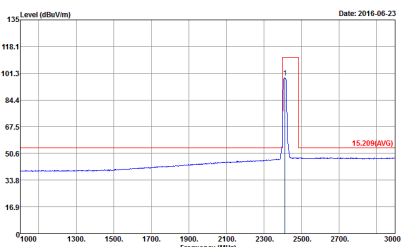
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                        |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11b CH11 2462MHz                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                        |
| 2    | Vertical                                                                                                                                                                                                                                                              | Fundamental                                                                                                                                                                                                                                                            |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Project : 660115<br/>Mode : 39</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Project : 660115<br/>Mode : 39</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000kHz VBW:0.010kHz SWT:Auto<br/>Project : 660115<br/>Mode : 39</p></div>   | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000kHz VBW:0.010kHz SWT:Auto<br/>Project : 660115<br/>Mode : 39</p></div>   |



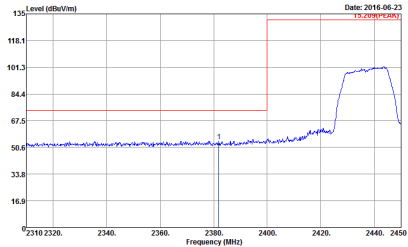
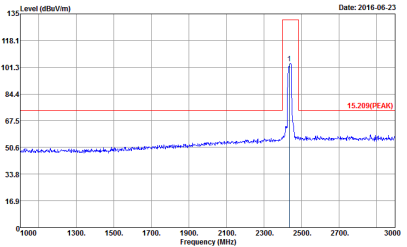
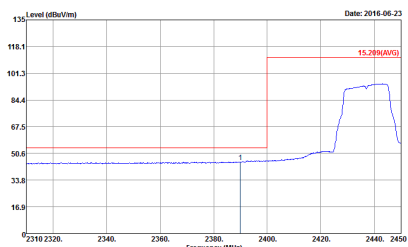
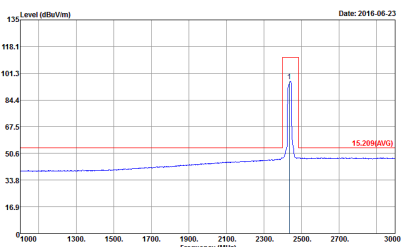
2.4GHz 2400~2483.5MHz  
WIFI 802.11g (Band Edge @ 3m)

| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                               |                                                                                                                                                                                                    |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11g CH01 2412MHz                                                                                                                                                                               |                                                                                                                                                                                                    |
| 2    | Horizontal                                                                                                                                                                                         | Fundamental                                                                                                                                                                                        |
| Peak | <p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 HORIZONTAL<br/>Detector : REW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Project : Peak<br/>Mode : 660115<br/>Date: 2016-06-23</p> | <p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 HORIZONTAL<br/>Detector : REW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Project : Peak<br/>Mode : 660115<br/>Date: 2016-06-23</p> |
| Avg. | <p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 HORIZONTAL<br/>Detector : REW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Project : Peak<br/>Mode : 660115<br/>Date: 2016-06-23</p>     | <p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 HORIZONTAL<br/>Detector : REW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Project : Peak<br/>Mode : 660115<br/>Date: 2016-06-23</p>     |

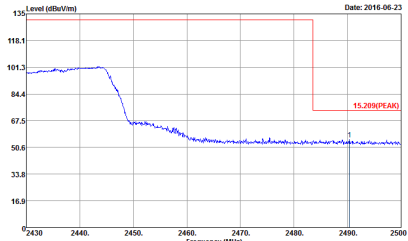
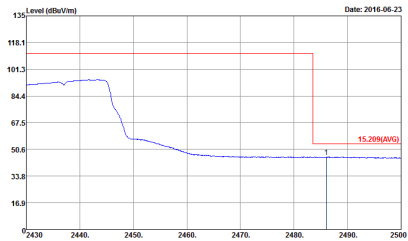


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                         |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11g CH01 2412MHz                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                         |
| 2    | Vertical                                                                                                                                                                                                                                                                                                                                                               | Fundamental                                                                                                                                                                                                                                                                                                                                                             |
| Peak | <div><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Date: 2016-06-23</p><p>15.209(Peak)</p><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 VERTICAL<br/>REW: 1000.000kHz VBW: 3000.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 40</p></div> | <div><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Date: 2016-06-23</p><p>15.209(Peak)</p><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 VERTICAL<br/>REW: 1000.000kHz VBW: 3000.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 40</p></div> |
| Avg. | <div><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Date: 2016-06-23</p><p>15.209(AVG)</p><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 VERTICAL<br/>REW: 1000.000kHz VBW: 1.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 40</p></div>    | <div><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Date: 2016-06-23</p><p>15.209(AVG)</p><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 VERTICAL<br/>REW: 1000.000kHz VBW: 1.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 40</p></div>    |

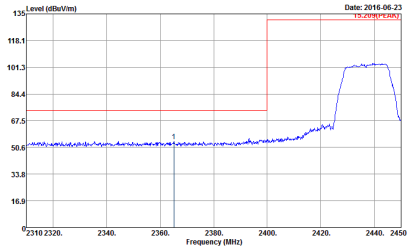
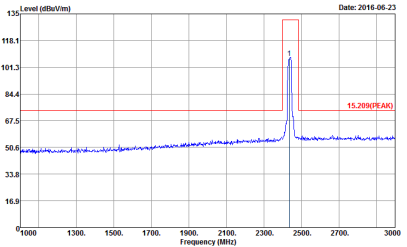
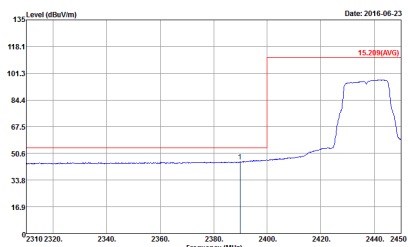
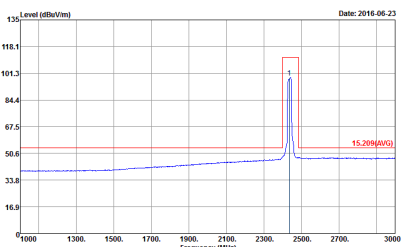


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                         |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11g CH06 2437MHz - L                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                         |
| 2    | Horizontal                                                                                                                                                                                                                                                             | Fundamental                                                                                                                                                                                                                                                             |
| Peak |  <p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 HORIZONTAL<br/>REW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 41</p> |  <p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 HORIZONTAL<br/>REW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 41</p> |
| Avg. |  <p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 HORIZONTAL<br/>REW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 41</p>   |  <p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 HORIZONTAL<br/>REW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 41</p>   |

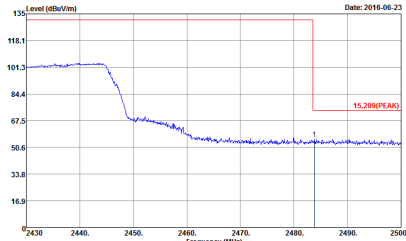
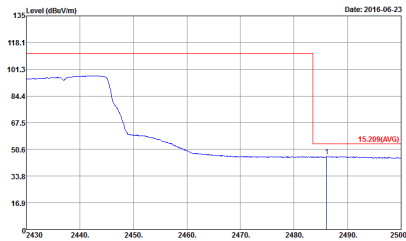


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                               |  |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| ANT  | 802.11g CH06 2437MHz - R                                                                                                                                                                                                                                                           |  |
| 2    | Horizontal                                                                                                                                                                                                                                                                         |  |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : 15.209/PEAK 3m HF-ANT_130829 HORIZONTAL<br/>RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 41</p></div> |  |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : 15.209/AVG 3m HF-ANT_130829 HORIZONTAL<br/>RBW: 1000.000kHz VBW: 1.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 41</p></div>   |  |

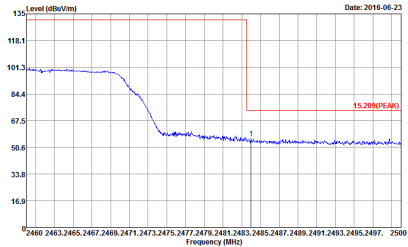
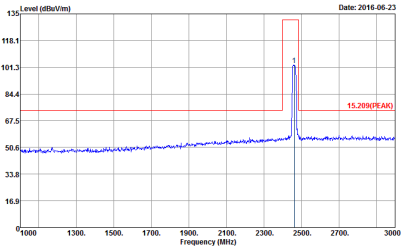
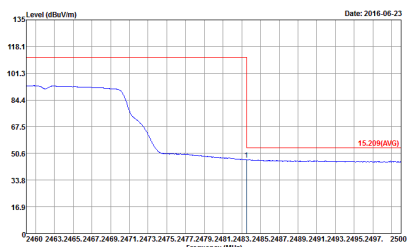
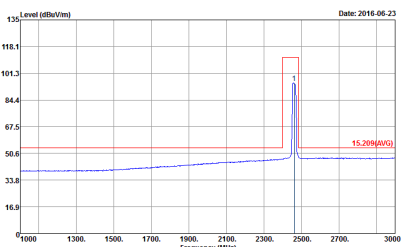


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                            |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11g CH06 2437MHz - L                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                            |
| 2    | Vertical                                                                                                                                                                                                                                                                                  | Fundamental                                                                                                                                                                                                                                                                                |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 VERTICAL<br/>Detector : REW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 41</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 VERTICAL<br/>Detector : REW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 41</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 VERTICAL<br/>Detector : REW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 41</p></div>   | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 VERTICAL<br/>Detector : REW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 41</p></div>   |

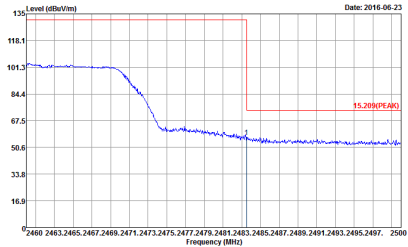
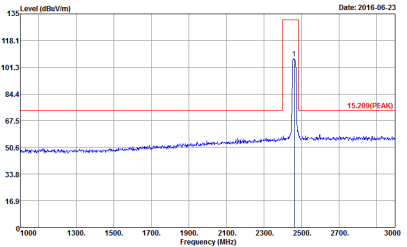
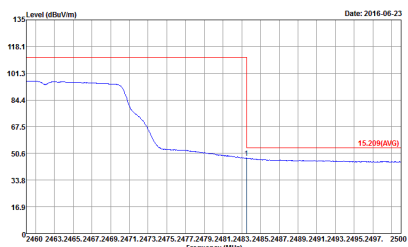
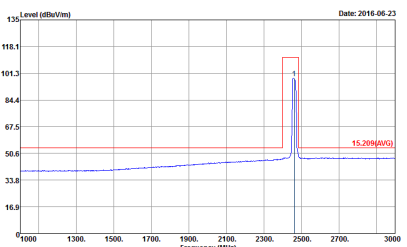


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                             |  |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| ANT  | 802.11g CH06 2437MHz - R                                                                                                                                                                                                                                                         |  |
| 2    | Vertical                                                                                                                                                                                                                                                                         |  |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : 15.209/PEAK 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 41</p></div> |  |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : 15.209/AVG 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000kHz VBW: 1.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 41</p></div>   |  |



| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                    |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11g CH11 2462MHz                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                    |
| 2    | Horizontal                                                                                                                                                                                                                                                                        | Fundamental                                                                                                                                                                                                                                                                        |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 HORIZONTAL<br/>REBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 42</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 HORIZONTAL<br/>REBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 42</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 HORIZONTAL<br/>REBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 42</p></div>   | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 HORIZONTAL<br/>REBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 42</p></div>   |



| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11g CH11 2462MHz                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                |
| 2    | Vertical                                                                                                                                                                                                                                                                                      | Fundamental                                                                                                                                                                                                                                                                                    |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 VERTICAL<br/>Detector : REW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Mode : Peak<br/>Project : 660115<br/>Date : 2016-06-23</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 VERTICAL<br/>Detector : REW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Mode : Peak<br/>Project : 660115<br/>Date : 2016-06-23</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 VERTICAL<br/>Detector : REW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Mode : Avg.<br/>Project : 660115<br/>Date : 2016-06-23</p></div>   | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 VERTICAL<br/>Detector : REW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Mode : Avg.<br/>Project : 660115<br/>Date : 2016-06-23</p></div>   |



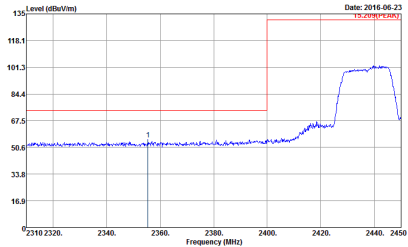
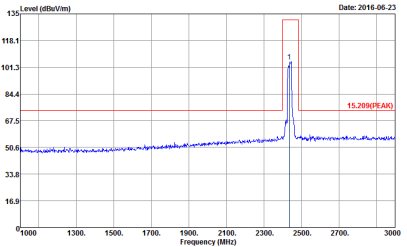
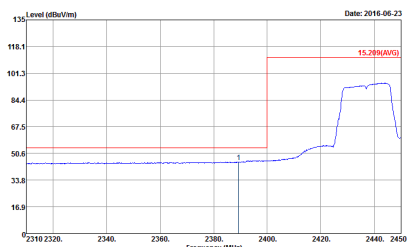
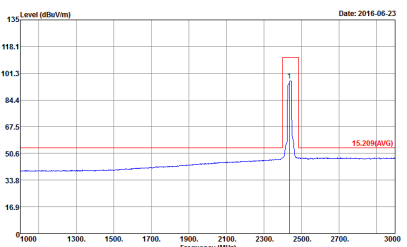
2.4GHz 2400~2483.5MHz  
WIFI 802.11ac VHT20 (Band Edge @ 3m)

| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                |                                                                                                                                                                                                     |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH01 2412MHz                                                                                                                                                                         |                                                                                                                                                                                                     |
| 2    | Horizontal                                                                                                                                                                                          | Fundamental                                                                                                                                                                                         |
| Peak | <p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 HORIZONTAL<br/>Detector : RBW:1000.000kHz VBW:3000.000kHz SVWT:Auto<br/>Project : Peak<br/>Mode : 660115<br/>Date: 2016-06-23</p> | <p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 HORIZONTAL<br/>Detector : RBW:1000.000kHz VBW:3000.000kHz SVWT:Auto<br/>Project : Peak<br/>Mode : 660115<br/>Date: 2016-06-23</p> |
| Avg. | <p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 HORIZONTAL<br/>Detector : RBW:1000.000kHz VBW:1.000kHz SVWT:Auto<br/>Project : Peak<br/>Mode : 660115<br/>Date: 2016-06-23</p>     | <p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 HORIZONTAL<br/>Detector : RBW:1000.000kHz VBW:1.000kHz SVWT:Auto<br/>Project : Peak<br/>Mode : 660115<br/>Date: 2016-06-23</p>     |

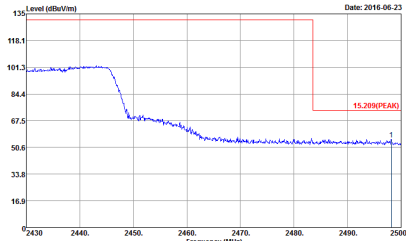
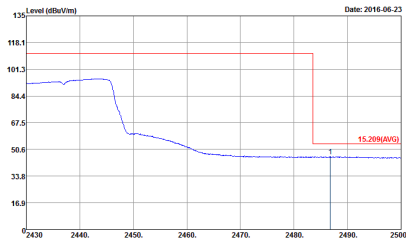


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                         |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH01 2412MHz                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                         |
| 2    | Vertical                                                                                                                                                                                                                                                                                                                                                                             | Fundamental                                                                                                                                                                                                                                                                                                                                                                             |
| Peak | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The plot shows a sharp peak at 2412 MHz. The peak level is 15.209(PEAK) dBuV/m. The plot is dated 2016-06-23.</p> <p>Site : 03CH07-HY<br/>Condition : 15.209(PEAK) 3m HF-ANT_130829 VERTICAL<br/>Detector : REW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 43</p> | <p>Level (dBuV/m) vs Frequency (MHz) plot for Fundamental polarization. The plot shows a sharp peak at 2412 MHz. The peak level is 15.209(PEAK) dBuV/m. The plot is dated 2016-06-23.</p> <p>Site : 03CH07-HY<br/>Condition : 15.209(PEAK) 3m HF-ANT_130829 VERTICAL<br/>Detector : REW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 43</p> |
| Avg. | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The plot shows a sharp peak at 2412 MHz. The peak level is 15.209(AVG) dBuV/m. The plot is dated 2016-06-23.</p> <p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 VERTICAL<br/>Detector : REW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 43</p>      | <p>Level (dBuV/m) vs Frequency (MHz) plot for Fundamental polarization. The plot shows a sharp peak at 2412 MHz. The peak level is 15.209(AVG) dBuV/m. The plot is dated 2016-06-23.</p> <p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 VERTICAL<br/>Detector : REW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 43</p>      |

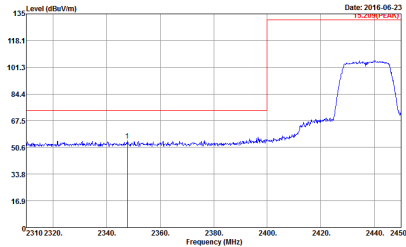
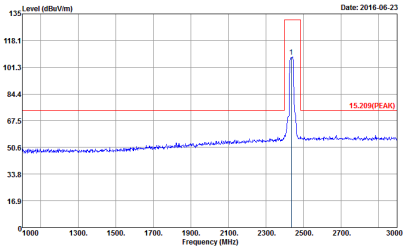
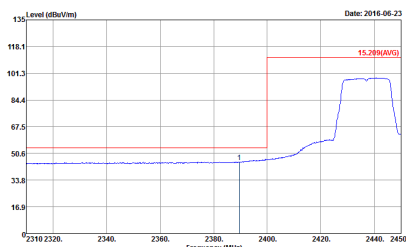
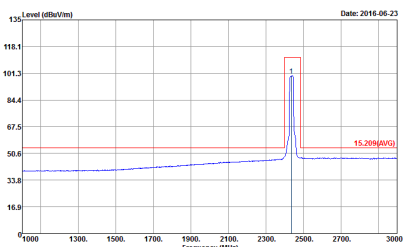


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                         |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH06 2437MHz - L                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                         |
| 2    | Horizontal                                                                                                                                                                                                                                                             | Fundamental                                                                                                                                                                                                                                                             |
| Peak |  <p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 HORIZONTAL<br/>REW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 44</p> |  <p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 HORIZONTAL<br/>REW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 44</p> |
| Avg. |  <p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 HORIZONTAL<br/>REW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 44</p>   |  <p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 HORIZONTAL<br/>REW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 44</p>   |

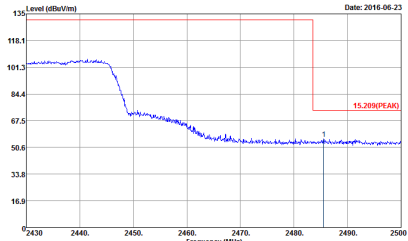
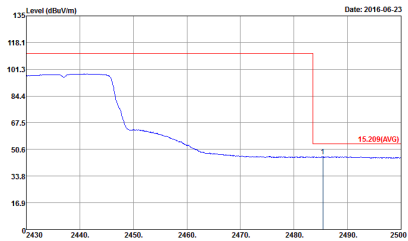


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                               |  |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| ANT  | 802.11ac VH20 CH06 2437MHz - R                                                                                                                                                                                                                                                     |  |
| 2    | Horizontal                                                                                                                                                                                                                                                                         |  |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 HORIZONTAL<br/>REBW:1000.000kHz VBW:3000.000kHz SVWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 44</p></div> |  |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 HORIZONTAL<br/>REBW:1000.000kHz VBW:1.000kHz SVWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 44</p></div>   |  |

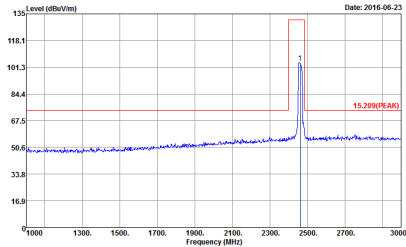
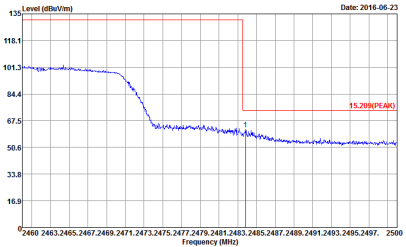
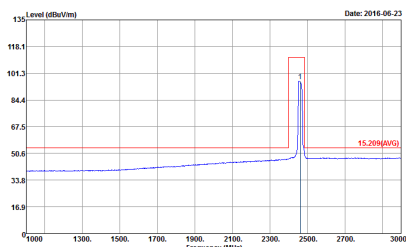
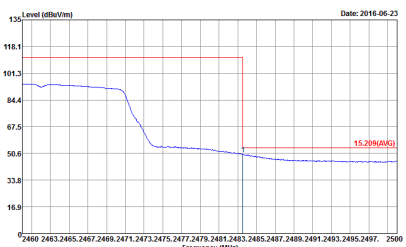


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                 |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VH20 CH06 2437MHz - L                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                 |
| 2    | Vertical                                                                                                                                                                                                                                                                       | Fundamental                                                                                                                                                                                                                                                                     |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Peak<br/>Project : 660115<br/>Mode : 44</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Peak<br/>Project : 660115<br/>Mode : 44</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Peak<br/>Project : 660115<br/>Mode : 44</p></div>   | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Peak<br/>Project : 660115<br/>Mode : 44</p></div>   |

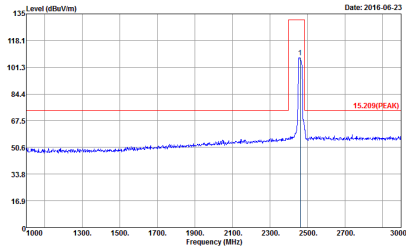
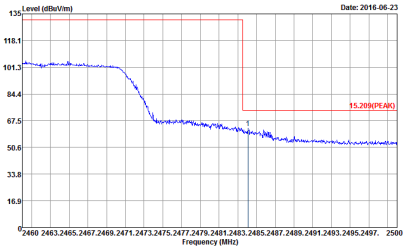
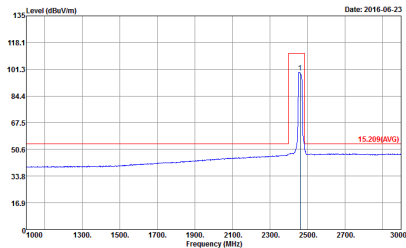
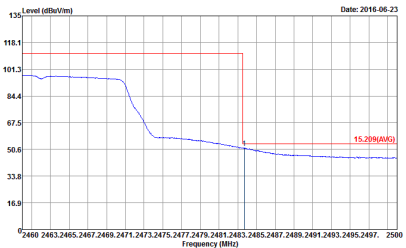


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                             |  |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| ANT  | 802.11ac VH20 CH06 2437MHz - R                                                                                                                                                                                                                                                   |  |
| 2    | Vertical                                                                                                                                                                                                                                                                         |  |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : 15.209/PEAK 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 44</p></div> |  |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : 15.209/AVG 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000kHz VBW: 1.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 44</p></div>   |  |



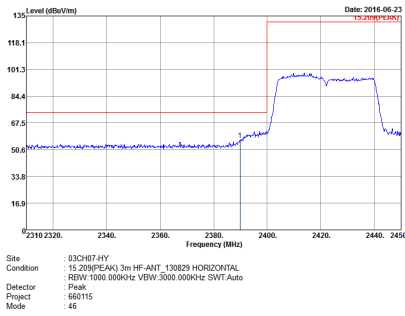
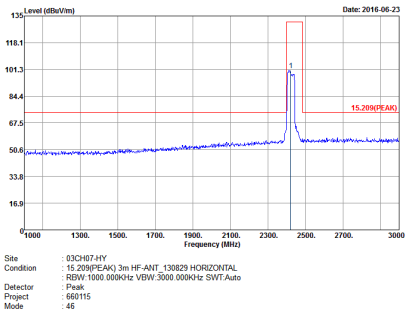
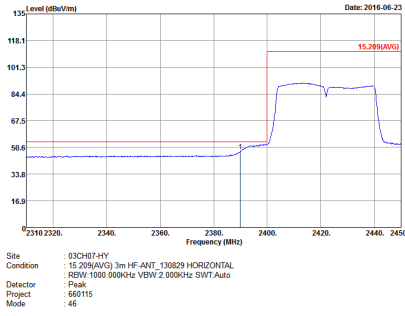
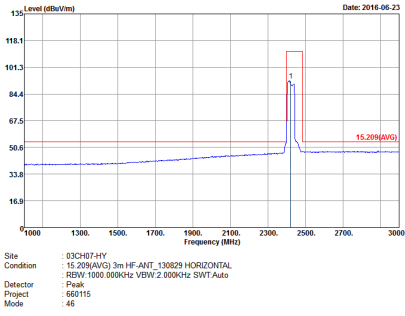
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                   |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VH20 CH11 2462MHz                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                   |
| 2    | Horizontal                                                                                                                                                                                                                                                                       | Fundamental                                                                                                                                                                                                                                                                       |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 HORIZONTAL<br/>REW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 45</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 HORIZONTAL<br/>REW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 45</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 HORIZONTAL<br/>REW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 45</p></div>   | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 HORIZONTAL<br/>REW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 45</p></div>   |



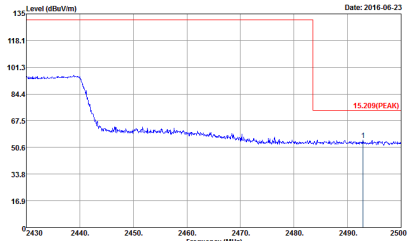
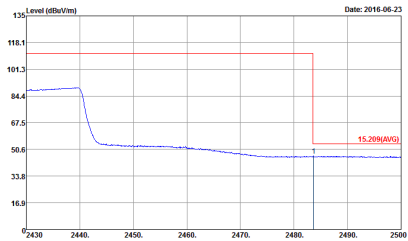
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                               |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VH20 CH11 2462MHz                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                               |
| 2    | Vertical                                                                                                                                                                                                                                                                                     | Fundamental                                                                                                                                                                                                                                                                                   |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 VERTICAL<br/>Detector : REW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Project : Peak<br/>Mode : 660115<br/>Date: 2016-06-23</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 VERTICAL<br/>Detector : REW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Project : Peak<br/>Mode : 660115<br/>Date: 2016-06-23</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 VERTICAL<br/>Detector : REW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Project : Peak<br/>Mode : 660115<br/>Date: 2016-06-23</p></div>   | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 VERTICAL<br/>Detector : REW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Project : Peak<br/>Mode : 660115<br/>Date: 2016-06-23</p></div>   |

2.4GHz 2400~2483.5MHz

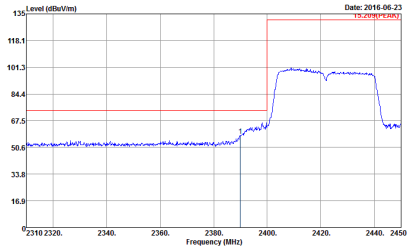
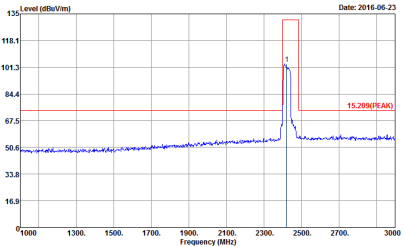
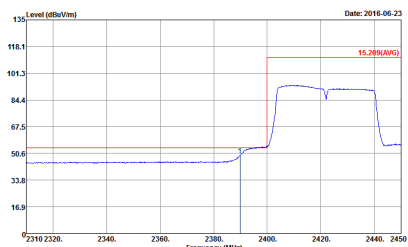
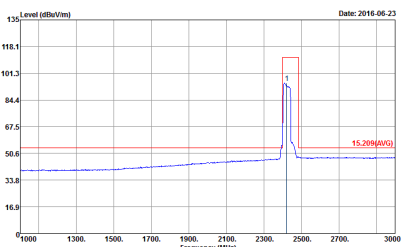
WIFI 802.11ac VHT40 (Band Edge @ 3m)

| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                        |                                                                                                                                                                                                                              |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VH40 CH03 2422MHz - L                                                                                                                                                                                              |                                                                                                                                                                                                                              |
| 2    | Horizontal                                                                                                                                                                                                                  | Fundamental                                                                                                                                                                                                                  |
| Peak |  <p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT, 130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 46</p>  |  <p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT, 130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 46</p>  |
| Avg. |  <p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT, 130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 46</p> |  <p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT, 130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 46</p> |

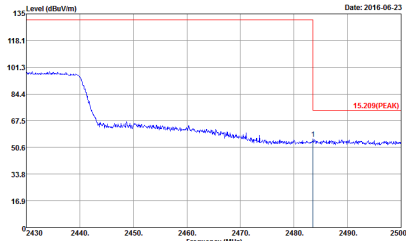
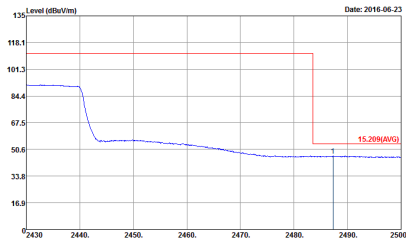


|      |                                                                                                                                                                                                                                                                          |  |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                     |  |
| ANT  | 802.11ac VH40 CH03 2422MHz - R                                                                                                                                                                                                                                           |  |
| 2    | Horizontal                                                                                                                                                                                                                                                               |  |
| Peak |  <p>Site : 03CH07-HY<br/>Condition : 15.209/PEAK 3m HF-ANT_130829 HORIZONTAL<br/>REW: 1000.000kHz VBW: 3000.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 46</p> |  |
| Avg. |  <p>Site : 03CH07-HY<br/>Condition : 15.209/AVG 3m HF-ANT_130829 HORIZONTAL<br/>REW: 1000.000kHz VBW: 2.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 46</p>   |  |

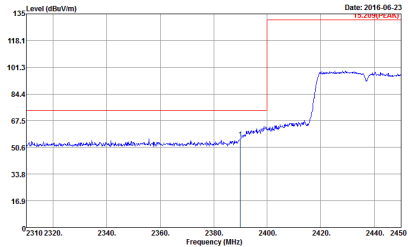
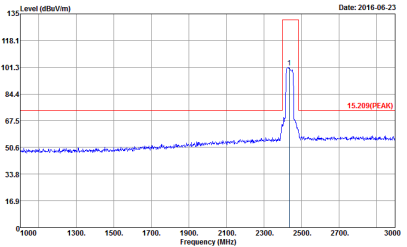
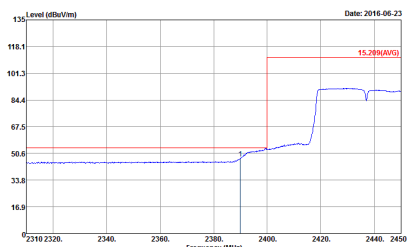
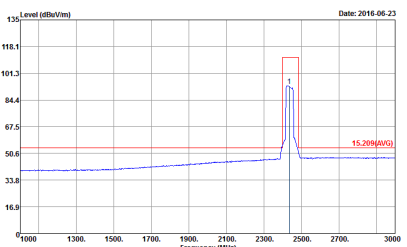


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                            |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VH40 CH03 2422MHz - L                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                            |
| 2    | Vertical                                                                                                                                                                                                                                                  | Fundamental                                                                                                                                                                                                                                                |
| Peak |  <p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Project : Peak<br/>Mode : 46</p> |  <p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Project : Peak<br/>Mode : 46</p> |
| Avg. |  <p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000kHz VBW:2.000kHz SWT:Auto<br/>Project : Peak<br/>Mode : 46</p>   |  <p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000kHz VBW:2.000kHz SWT:Auto<br/>Project : Peak<br/>Mode : 46</p>   |

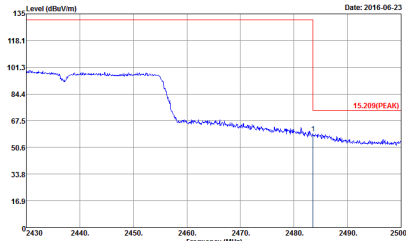
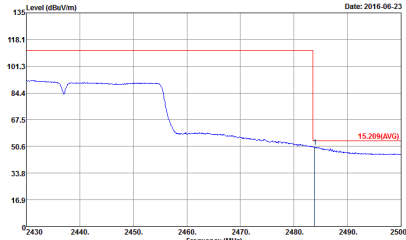


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                             |  |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| ANT  | 802.11ac VH40 CH03 2422MHz - R                                                                                                                                                                                                                                                   |  |
| 2    | Vertical                                                                                                                                                                                                                                                                         |  |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : 15.209/PEAK 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 46</p></div> |  |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : 15.209/AVG 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000kHz VBW: 2.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 46</p></div>   |  |

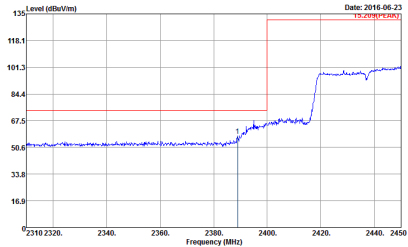
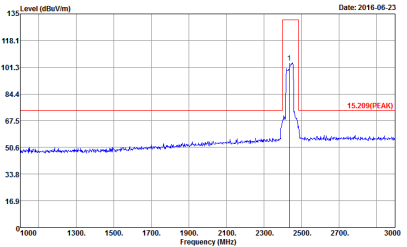
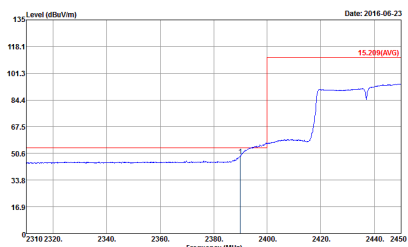
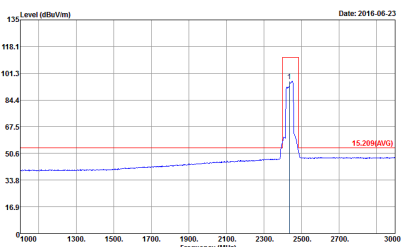


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                      |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VH40 CH06 2437MHz - L                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                      |
| 2    | Horizontal                                                                                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                                                                                          |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 HORIZONTAL<br/>REW: 1000.000kHz VBW: 3000.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 47</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 HORIZONTAL<br/>REW: 1000.000kHz VBW: 3000.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 47</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 HORIZONTAL<br/>REW: 1000.000kHz VBW: 2.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 47</p></div>   | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 HORIZONTAL<br/>REW: 1000.000kHz VBW: 2.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 47</p></div>   |

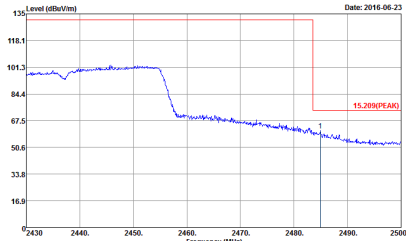
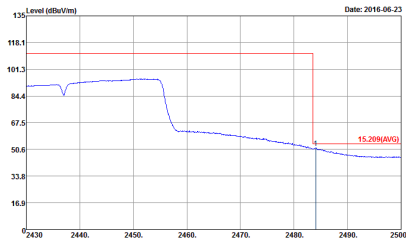


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                               |  |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| ANT  | 802.11ac VH40 CH06 2437MHz - R                                                                                                                                                                                                                                                     |  |
| 2    | Horizontal                                                                                                                                                                                                                                                                         |  |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : 15.209/PEAK 3m HF-ANT_130829 HORIZONTAL<br/>REW: 1000.000kHz VBW: 3000.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 47</p></div> |  |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : 15.209/AVG 3m HF-ANT_130829 HORIZONTAL<br/>REW: 1000.000kHz VBW: 2.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 47</p></div>   |  |

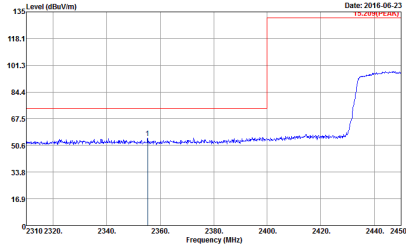
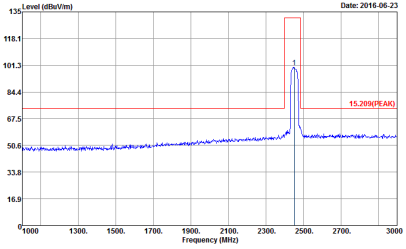
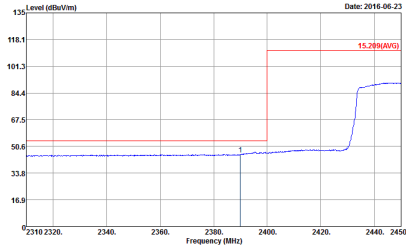
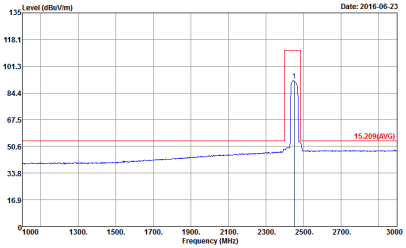


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                 |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VH40 CH06 2437MHz - L                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                 |
| 2    | Vertical                                                                                                                                                                                                                                                                       | Fundamental                                                                                                                                                                                                                                                                     |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Peak<br/>Project : 660115<br/>Mode : 47</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Peak<br/>Project : 660115<br/>Mode : 47</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000kHz VBW:2.000kHz SWT:Auto<br/>Peak<br/>Project : 660115<br/>Mode : 47</p></div>   | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000kHz VBW:2.000kHz SWT:Auto<br/>Peak<br/>Project : 660115<br/>Mode : 47</p></div>   |

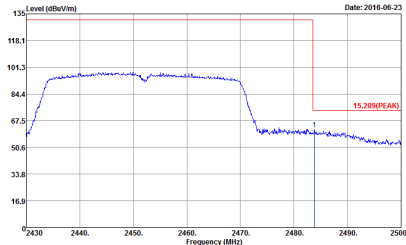
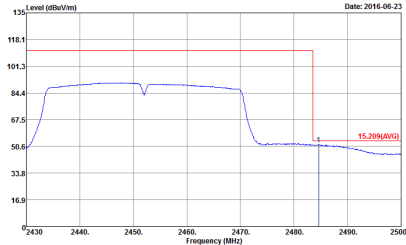


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                              |  |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| ANT  | 802.11ac VH40 CH06 2437MHz - R                                                                                                                                                                                                                                                    |  |
| 2    | Vertical                                                                                                                                                                                                                                                                          |  |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 VERTICAL<br/>REW: 1000.000kHz VBW: 3000.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 47</p></div> |  |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 VERTICAL<br/>REW: 1000.000kHz VBW: 2.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 47</p></div>   |  |

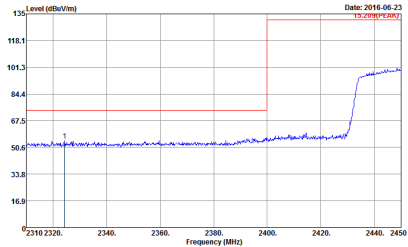
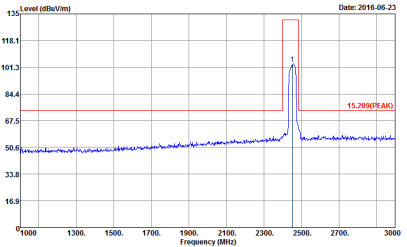
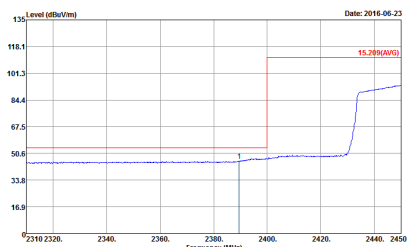
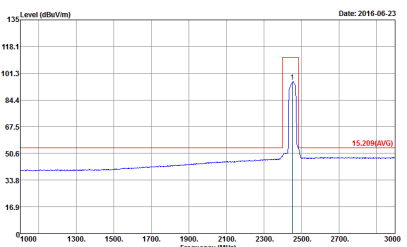


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                               |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VH40 CH09 2452MHz - L                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                               |
| 2    | Horizontal                                                                                                                                                                                                                                                                                   | Fundamental                                                                                                                                                                                                                                                                                   |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(PK) 3m HF-ANT_130829 HORIZONTAL<br/>Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Project : 660115<br/>Mode : 48<br/>Power Setting : 58</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(PK) 3m HF-ANT_130829 HORIZONTAL<br/>Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Project : 660115<br/>Mode : 48<br/>Power Setting : 58</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 HORIZONTAL<br/>Detector : RBW:1000.000kHz VBW:2.000kHz SWT:Auto<br/>Project : 660115<br/>Mode : 48<br/>Power Setting : 58</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 HORIZONTAL<br/>Detector : RBW:1000.000kHz VBW:2.000kHz SWT:Auto<br/>Project : 660115<br/>Mode : 48<br/>Power Setting : 58</p></div> |

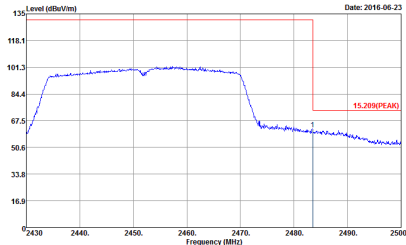
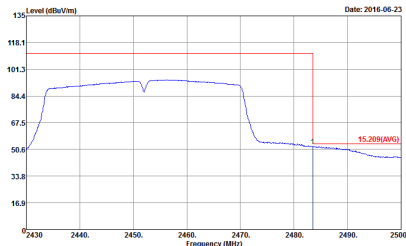


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                                                     |  |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| ANT  | 802.11ac VH40 CH09 2452MHz - R                                                                                                                                                                                                                                                                           |  |
| 2    | Horizontal                                                                                                                                                                                                                                                                                               |  |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 HORIZONTAL<br/>REBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 48<br/>Power Setting : 58</p></div> |  |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 HORIZONTAL<br/>REBW:1000.000kHz VBW:2.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 48<br/>Power Setting : 58</p></div>   |  |



| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VH40 CH09 2452MHz - L                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                |
| 2    | Vertical                                                                                                                                                                                                                                                                                                                                                                                      | Fundamental                                                                                                                                                                                                                                                                                                                                                                                    |
| Peak | <div><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Date: 2016-06-23</p><p>15.209(Peak)</p><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 48<br/>Power Setting : 58</p></div> | <div><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Date: 2016-06-23</p><p>15.209(Peak)</p><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 48<br/>Power Setting : 58</p></div> |
| Avg. | <div><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Date: 2016-06-23</p><p>15.209(AVG)</p><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000kHz VBW: 2.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 48<br/>Power Setting : 58</p></div>    | <div><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Date: 2016-06-23</p><p>15.209(AVG)</p><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000kHz VBW: 2.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 48<br/>Power Setting : 58</p></div>    |



| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                                                     |  |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| ANT  | 802.11ac VH40 CH09 2452MHz - R                                                                                                                                                                                                                                                                           |  |
| 2    | Vertical                                                                                                                                                                                                                                                                                                 |  |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 48<br/>Power Setting : 58</p></div> |  |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000kHz VBW: 2.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 48<br/>Power Setting : 58</p></div>   |  |



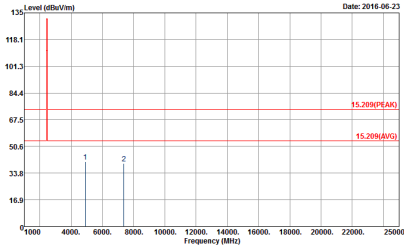
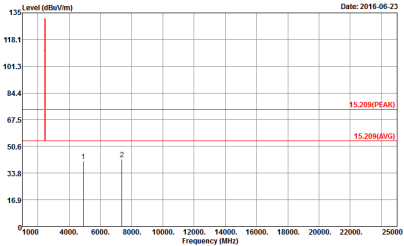
2.4GHz 2400~2483.5MHz  
WIFI 802.11b (Harmonic @ 3m)

| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                      |                                                                                                                                        |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11b CH01 2412MHz                                                                                                                     |                                                                                                                                        |
| 2            | Horizontal                                                                                                                               | Vertical                                                                                                                               |
| Peak<br>Avg. | <p>Site : 03CH07.HY<br/>Condition : 15.209(Peak) 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 37</p> | <p>Site : 03CH07.HY<br/>Condition : 15.209(Peak) 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 37</p> |



| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                 |                                                                                                                                                   |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11b CH06 2437MHz                                                                                                                                |                                                                                                                                                   |
| 2            | Horizontal                                                                                                                                          | Vertical                                                                                                                                          |
| Peak<br>Avg. | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(PEAK) 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 38</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(PEAK) 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 38</p></div> |



| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                                                                                                  |                                                                                                                                                                                                                                     |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11b CH11 2462MHz                                                                                                                                                                                                                 |                                                                                                                                                                                                                                     |
| 2            | Horizontal                                                                                                                                                                                                                           | Vertical                                                                                                                                                                                                                            |
| Peak<br>Avg. | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 39</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 39</p></div> |



2.4GHz 2400~2483.5MHz  
WIFI 802.11g (Harmonic @ 3m)

| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                      |                                                                                                                                        |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11g CH01 2412MHz                                                                                                                     |                                                                                                                                        |
| 2            | Horizontal                                                                                                                               | Vertical                                                                                                                               |
| Peak<br>Avg. | <p>Site : 03CH07.HY<br/>Condition : 15.209(Peak) 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 40</p> | <p>Site : 03CH07.HY<br/>Condition : 15.209(Peak) 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 40</p> |



| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                 |                                                                                                                                                   |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11g CH06 2437MHz                                                                                                                                |                                                                                                                                                   |
| 2            | Horizontal                                                                                                                                          | Vertical                                                                                                                                          |
| Peak<br>Avg. | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 41</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 41</p></div> |



| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                      |                                                                                                                                        |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11g CH11 2462MHz                                                                                                                     |                                                                                                                                        |
| 2            | Horizontal                                                                                                                               | Vertical                                                                                                                               |
| Peak<br>Avg. | <p>Site : 03CH07-HY<br/>Condition : 15.209(PEAK) 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 42</p> | <p>Site : 03CH07-HY<br/>Condition : 15.209(PEAK) 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 42</p> |

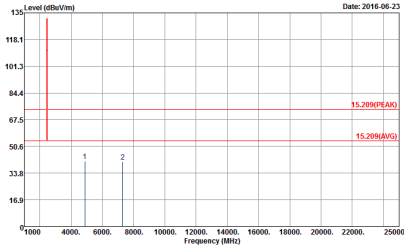
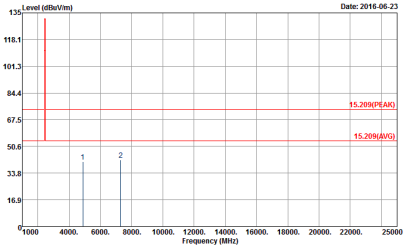


2.4GHz 2400~2483.5MHz

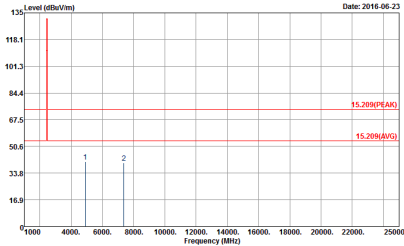
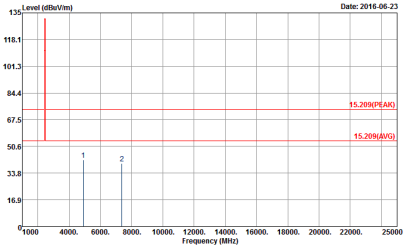
WIFI 802.11ac VHT20 (Harmonic @ 3m)

| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                      |                                                                                                                                        |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT20 CH01 2412MHz                                                                                                              |                                                                                                                                        |
| 2            | Horizontal                                                                                                                               | Vertical                                                                                                                               |
| Peak<br>Avg. | <p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 43</p> | <p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 43</p> |



| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                                                                                                  |                                                                                                                                                                                                                                     |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT20 CH06 2437MHz                                                                                                                                                                                                          |                                                                                                                                                                                                                                     |
| 2            | Horizontal                                                                                                                                                                                                                           | Vertical                                                                                                                                                                                                                            |
| Peak<br>Avg. | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 44</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 44</p></div> |



| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                                                                                                  |                                                                                                                                                                                                                                     |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT20 CH11 2462MHz                                                                                                                                                                                                          |                                                                                                                                                                                                                                     |
| 2            | Horizontal                                                                                                                                                                                                                           | Vertical                                                                                                                                                                                                                            |
| Peak<br>Avg. | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 45</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 45</p></div> |



2.4GHz 2400~2483.5MHz

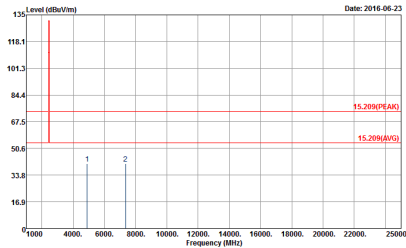
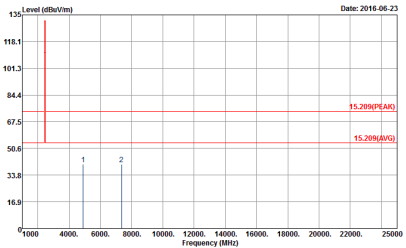
WIFI 802.11ac VHT40 (Harmonic @ 3m)

| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                      |                                                                                                                                        |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT40 CH03 2422MHz                                                                                                              |                                                                                                                                        |
| 2            | Horizontal                                                                                                                               | Vertical                                                                                                                               |
| Peak<br>Avg. | <p>Site : 03CH07.HY<br/>Condition : 15.209(Peak) 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 46</p> | <p>Site : 03CH07.HY<br/>Condition : 15.209(Peak) 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 46</p> |



| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                 |                                                                                                                                                   |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT40 CH06 2437MHz                                                                                                                         |                                                                                                                                                   |
| 2            | Horizontal                                                                                                                                          | Vertical                                                                                                                                          |
| Peak<br>Avg. | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 47</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 47</p></div> |



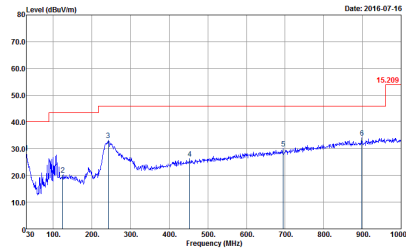
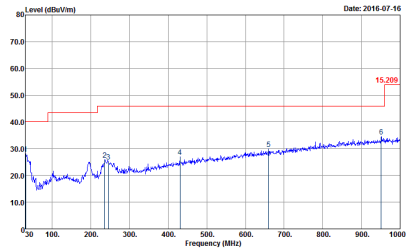
| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                            |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT40 CH09 2452MHz                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                            |
| 2            | Horizontal                                                                                                                                                                                                                                                  | Vertical                                                                                                                                                                                                                                                   |
| Peak<br>Avg. | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 48<br/>Power Setting : 58</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 48<br/>Power Setting : 58</p></div> |



2.4GHz 2400~2483.5MHz

Emission below 1GHz

2.4GHz WIFI 802.11b (LF)

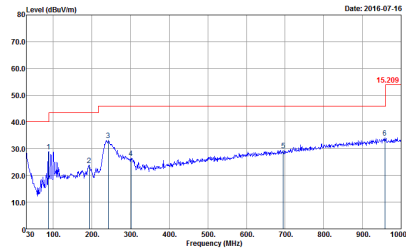
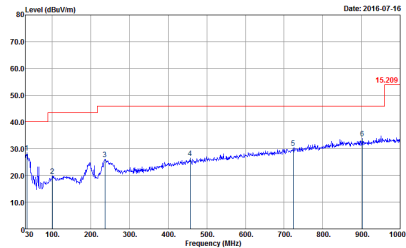
| WIFI         | 2.4GHz 2400~2483.5MHz                                                                                                                                                                                                 |                                                                                                                                                                                                                      |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11b LF                                                                                                                                                                                                            |                                                                                                                                                                                                                      |
| 2            | Horizontal                                                                                                                                                                                                            | Vertical                                                                                                                                                                                                             |
| QP /<br>Peak |  <p>Site : 03CH07.HY<br/>Condition : 15.209 3m LF-ANT-35419(S) HORIZONTAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 49</p> |  <p>Site : 03CH07.HY<br/>Condition : 15.209 3m LF-ANT-35419(S) VERTICAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 49</p> |
|              |                                                                                                                                                                                                                       |                                                                                                                                                                                                                      |



2.4GHz 2400~2483.5MHz

Emission below 1GHz

2.4GHz WIFI 802.11g (LF)

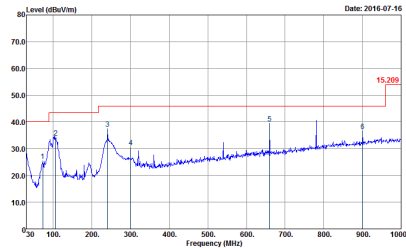
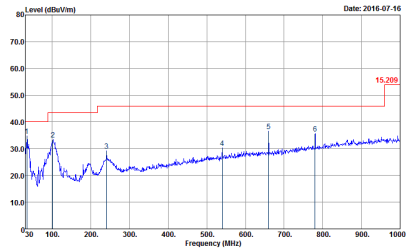
| WIFI         | 2.4GHz 2400~2483.5MHz                                                                                                                                                                                                 |                                                                                                                                                                                                                      |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11g LF                                                                                                                                                                                                            |                                                                                                                                                                                                                      |
| 2            | Horizontal                                                                                                                                                                                                            | Vertical                                                                                                                                                                                                             |
| QP /<br>Peak |  <p>Site : 03CH07.HY<br/>Condition : 15.209 3m LF-ANT-35419(S) HORIZONTAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 50</p> |  <p>Site : 03CH07.HY<br/>Condition : 15.209 3m LF-ANT-35419(S) VERTICAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 50</p> |
|              |                                                                                                                                                                                                                       |                                                                                                                                                                                                                      |



2.4GHz 2400~2483.5MHz

Emission below 1GHz

2.4GHz WIFI 802.11ac VHT20 (LF)

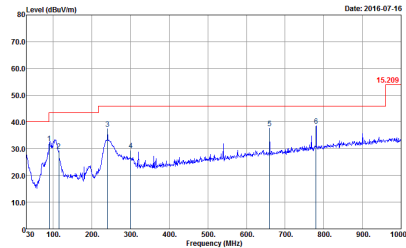
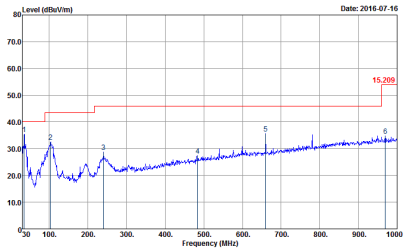
| WIFI         | 2.4GHz 2400~2483.5MHz                                                                                                                                                                                                 |                                                                                                                                                                                                                      |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT20 LF                                                                                                                                                                                                     |                                                                                                                                                                                                                      |
| 2            | Horizontal                                                                                                                                                                                                            | Vertical                                                                                                                                                                                                             |
| QP /<br>Peak |  <p>Site : 03CH07.HY<br/>Condition : 15.209 3m LF-ANT-35419(S) HORIZONTAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 51</p> |  <p>Site : 03CH07.HY<br/>Condition : 15.209 3m LF-ANT-35419(S) VERTICAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 51</p> |
|              |                                                                                                                                                                                                                       |                                                                                                                                                                                                                      |



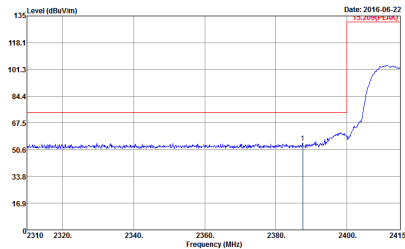
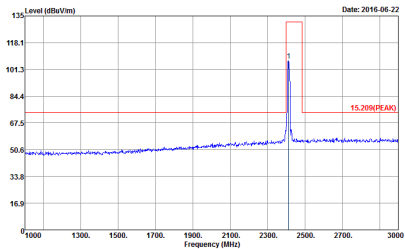
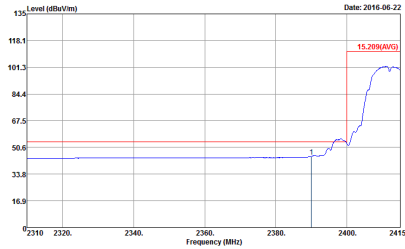
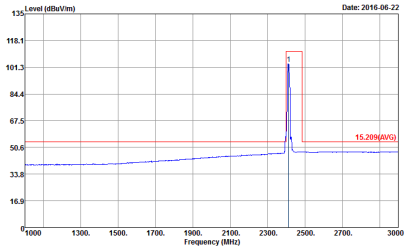
2.4GHz 2400~2483.5MHz

Emission below 1GHz

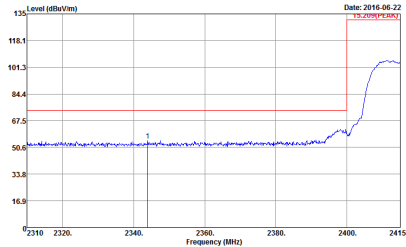
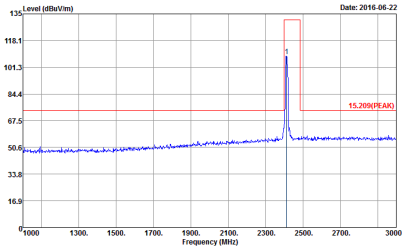
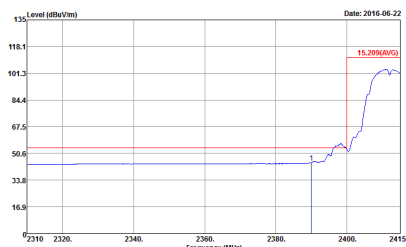
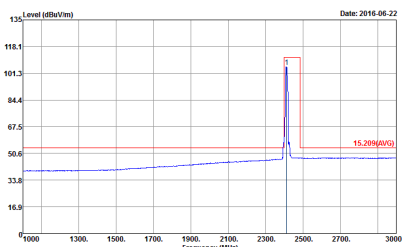
2.4GHz WIFI 802.11ac VHT40 (LF)

| WIFI         | 2.4GHz 2400~2483.5MHz                                                                                                                                                                                                 |                                                                                                                                                                                                                      |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT40 LF                                                                                                                                                                                                     |                                                                                                                                                                                                                      |
| 2            | Horizontal                                                                                                                                                                                                            | Vertical                                                                                                                                                                                                             |
| QP /<br>Peak |  <p>Site : 01CH07.HY<br/>Condition : 15.209 3m LF-ANT-35419(S) HORIZONTAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 52</p> |  <p>Site : 01CH07.HY<br/>Condition : 15.209 3m LF-ANT-35419(S) VERTICAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 52</p> |
|              |                                                                                                                                                                                                                       |                                                                                                                                                                                                                      |

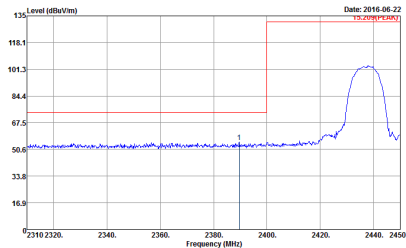
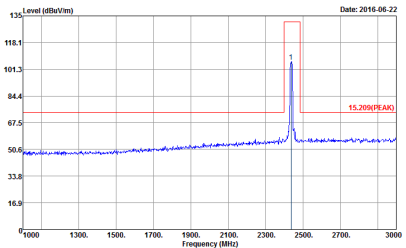
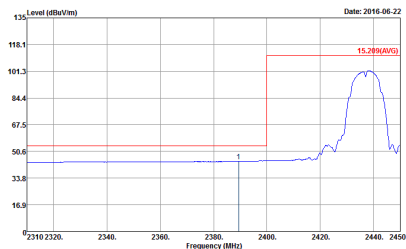
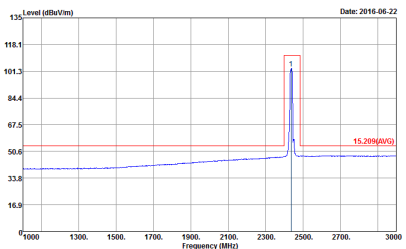
**2.4GHz 2400~2483.5MHz**
**WIFI 802.11b (Band Edge @ 3m)**

| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                      |                                                                                                                                                                                                                            |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11b CH01 2412MHz                                                                                                                                                                                                      |                                                                                                                                                                                                                            |
| 1+2  | Horizontal                                                                                                                                                                                                                | Fundamental                                                                                                                                                                                                                |
| Peak |  <p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 9</p>  |  <p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 9</p>  |
| Avg. |  <p>Site : 03CH07-HY<br/>Condition : 15.209(Avg) 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 9</p> |  <p>Site : 03CH07-HY<br/>Condition : 15.209(Avg) 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 9</p> |



| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                 |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11b CH01 2412MHz                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                 |
| 1+2  | Vertical                                                                                                                                                                                                                                                                       | Fundamental                                                                                                                                                                                                                                                                     |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(PK) 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 9</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(PK) 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 9</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000kHz VBW: 0.010kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 9</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000kHz VBW: 1.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 9</p></div> |

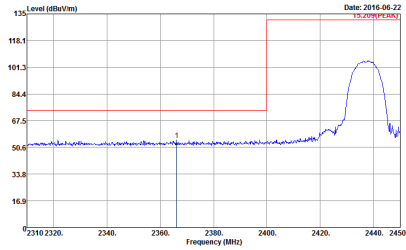
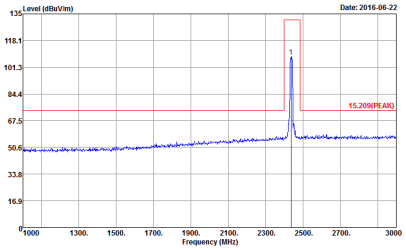
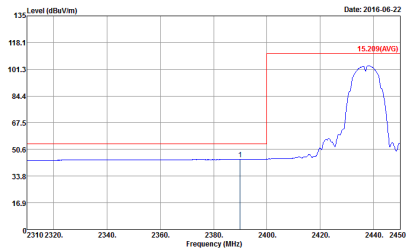
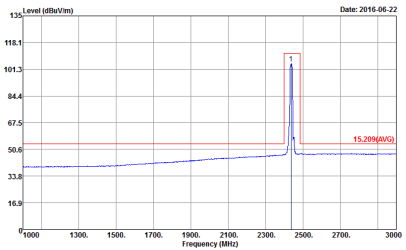


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                      |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11b CH06 2437MHz - L                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                      |
| 1+2  | Horizontal                                                                                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                                                                                          |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(PEAK) 3m HF-ANT_130829 HORIZONTAL<br/>RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 10</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(PEAK) 3m HF-ANT_130829 HORIZONTAL<br/>RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 10</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : 15.289(AVG) 3m HF-ANT_130829 HORIZONTAL<br/>RBW: 1000.000kHz VBW: 0.010kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 10</p></div>   | <div><p>Site : 03CH07-HY<br/>Condition : 15.289(AVG) 3m HF-ANT_130829 HORIZONTAL<br/>RBW: 1000.000kHz VBW: 0.010kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 10</p></div>   |

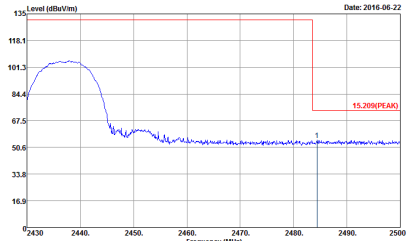
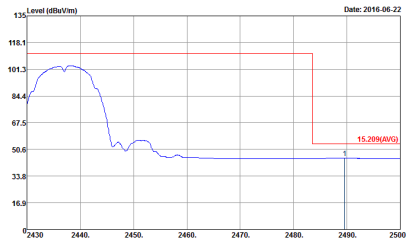


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                               |  |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| ANT  | 802.11b CH06 2437MHz - R                                                                                                                                                                           |  |
| 1+2  | Horizontal                                                                                                                                                                                         |  |
| Peak | <p>Site : 03CH074HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 HORIZONTAL<br/>Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Project : Peak<br/>Mode : 660115<br/>Date: 2016-06-22</p> |  |
| Avg. | <p>Site : 03CH074HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 HORIZONTAL<br/>Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Project : Peak<br/>Mode : 660115<br/>Date: 2016-06-22</p>  |  |

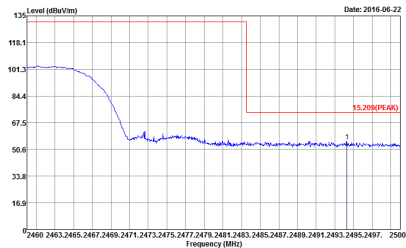
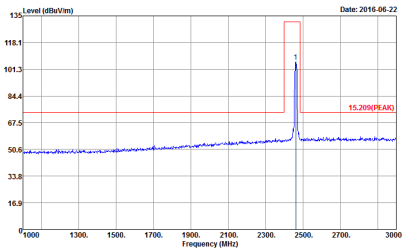
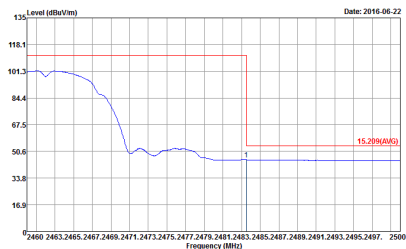
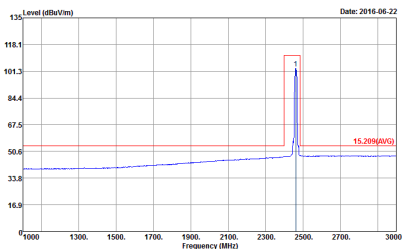


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                 |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11b CH06 2437MHz - L                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                 |
| 1+2  | Vertical                                                                                                                                                                                                                                                                       | Fundamental                                                                                                                                                                                                                                                                     |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 10</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 10</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:0.010kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 10</p></div>   | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:0.010kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 10</p></div>   |

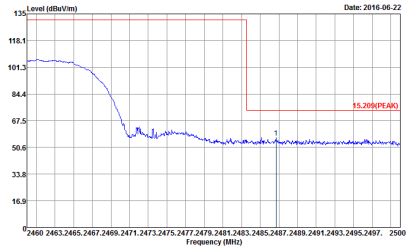
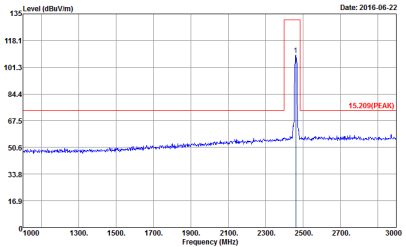
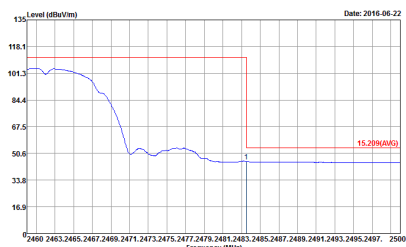
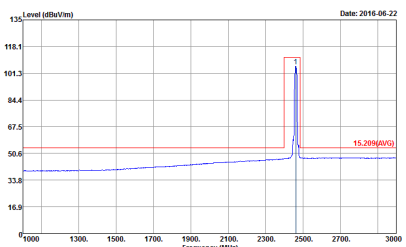


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                              |  |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| ANT  | 802.11b CH06 2437MHz - R                                                                                                                                                                                                                                                          |  |
| 1+2  | Vertical                                                                                                                                                                                                                                                                          |  |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : 15.209/PEAK) 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000KHz VBW: 3000.000KHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 10</p></div> |  |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : 15.209/AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000KHz VBW: 0.010KHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 10</p></div>   |  |

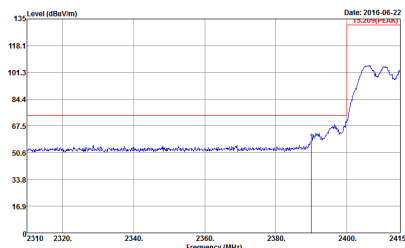
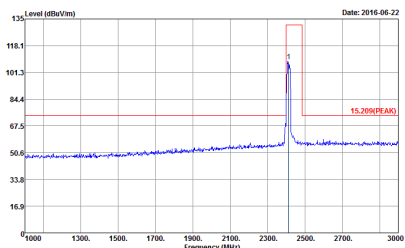
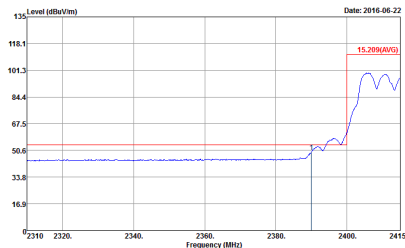
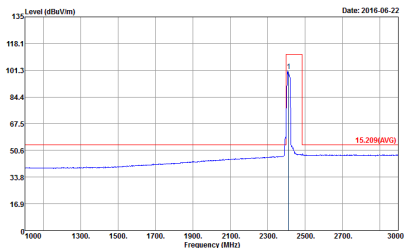


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                      |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11b CH11 2462MHz                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                      |
| 1+2  | Horizontal                                                                                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                                                                                          |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 HORIZONTAL<br/>RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 11</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 HORIZONTAL<br/>RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 11</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Avg) 3m HF-ANT_130829 HORIZONTAL<br/>RBW: 1000.000kHz VBW: 0.010kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 11</p></div>   | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Avg) 3m HF-ANT_130829 HORIZONTAL<br/>RBW: 1000.000kHz VBW: 0.010kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 11</p></div>   |

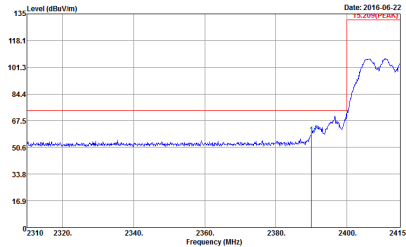
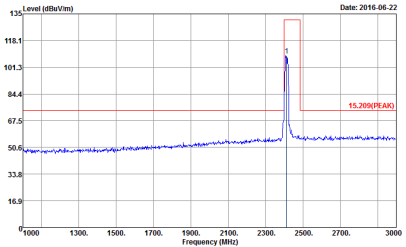
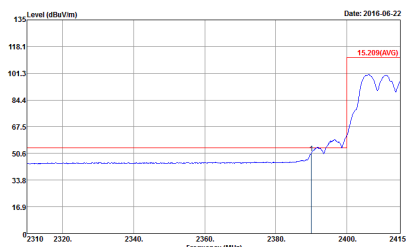
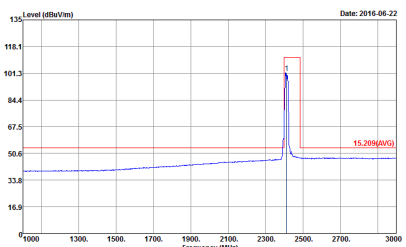


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                 |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11b CH11 2462MHz                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                 |
| 1+2  | Vertical                                                                                                                                                                                                                                                                       | Fundamental                                                                                                                                                                                                                                                                     |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Peak<br/>Project : 660115<br/>Mode : 11</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Peak<br/>Project : 660115<br/>Mode : 11</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000kHz VBW:0.010kHz SWT:Auto<br/>Peak<br/>Project : 660115<br/>Mode : 11</p></div>   | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000kHz VBW:0.010kHz SWT:Auto<br/>Peak<br/>Project : 660115<br/>Mode : 11</p></div>   |

**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+2  | Horizontal                                                                                                                                                                                                                                                                      | Fundamental                                                                                                                                                                                                                                                                      |
| Peak |  <p>Site : 03CH074HY<br/> Condition : 15.209(Peak) 3m HF-ANT, 130829 HORIZONTAL<br/> RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto<br/> Detector : Peak<br/> Project : 660115<br/> Mode : 12</p> |  <p>Site : 03CH074HY<br/> Condition : 15.209(Peak) 3m HF-ANT, 130829 HORIZONTAL<br/> RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto<br/> Detector : Peak<br/> Project : 660115<br/> Mode : 12</p> |
| Avg. |  <p>Site : 03CH074HY<br/> Condition : 15.209(AVG) 3m HF-ANT, 130829 HORIZONTAL<br/> RBW: 1000.000kHz VBW: 1.000kHz SWT: Auto<br/> Detector : Peak<br/> Project : 660115<br/> Mode : 12</p>   |  <p>Site : 03CH074HY<br/> Condition : 15.209(AVG) 3m HF-ANT, 130829 HORIZONTAL<br/> RBW: 1000.000kHz VBW: 1.000kHz SWT: Auto<br/> Detector : Peak<br/> Project : 660115<br/> Mode : 12</p>   |

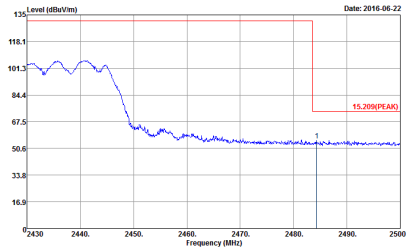
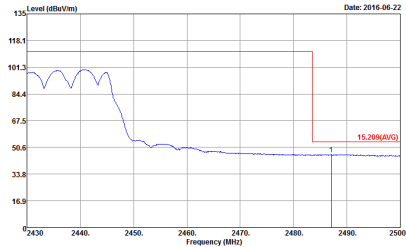


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                    |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11g CH01 2412MHz                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                    |
| 1+2  | Vertical                                                                                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                                                                                        |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 12</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 12</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000kHz VBW: 1.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 12</p></div>   | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000kHz VBW: 1.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 12</p></div>   |

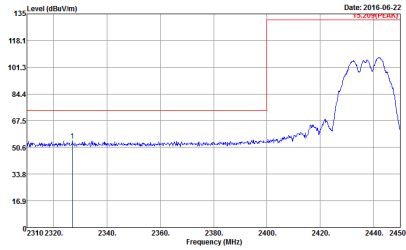
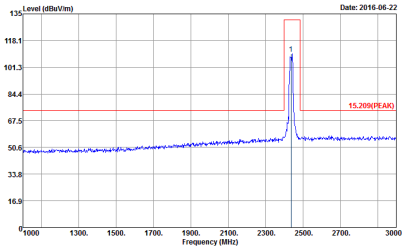
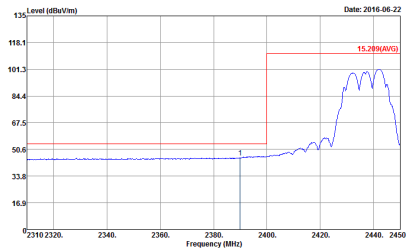
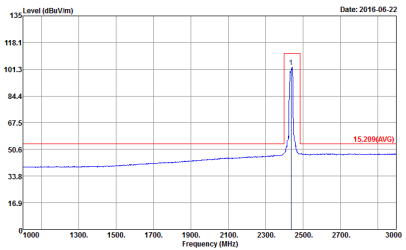


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                 |                                                                                                                                                                                      |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11g CH06 2437MHz - L                                                                                                                                                             |                                                                                                                                                                                      |
| 1+2  | Horizontal                                                                                                                                                                           | Fundamental                                                                                                                                                                          |
| Peak | <p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 13</p> | <p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 13</p> |
| Avg. | <p>Site : 03CH07-HY<br/>Condition : 15.289(AVG) 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 13</p>     | <p>Site : 03CH07-HY<br/>Condition : 15.289(AVG) 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 13</p>     |

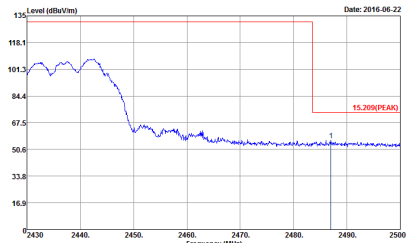
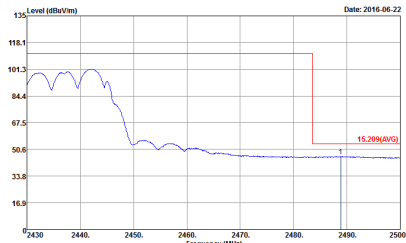


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                |  |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| ANT  | 802.11g CH06 2437MHz - R                                                                                                                                                                                                            |  |
| 1+2  | Horizontal                                                                                                                                                                                                                          |  |
| Peak | <div><p>Site : 03CH074HY<br/>Condition : 15.209/PEAK 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 13</p></div>  |  |
| Avg. | <div><p>Site : 03CH074HY<br/>Condition : 15.209/AVG 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 13</p></div> |  |

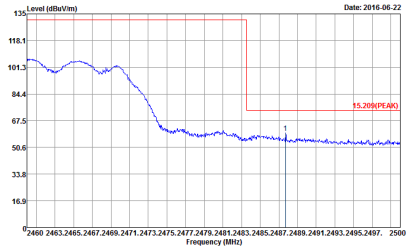
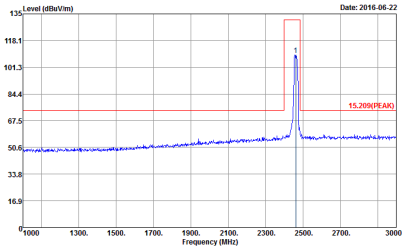
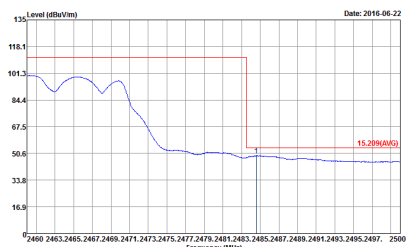
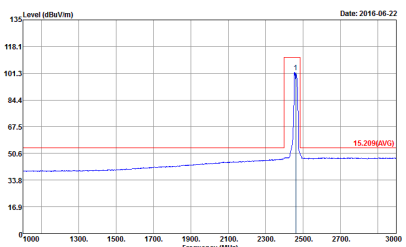


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                 |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11g CH06 2437MHz - L                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                 |
| 1+2  | Vertical                                                                                                                                                                                                                                                                       | Fundamental                                                                                                                                                                                                                                                                     |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 13</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 13</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 13</p></div>   | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 13</p></div>   |

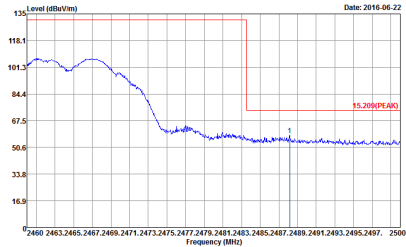
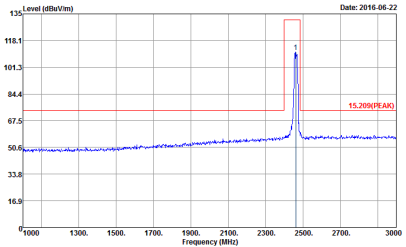
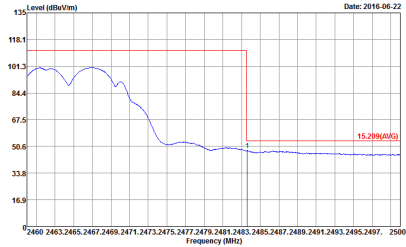
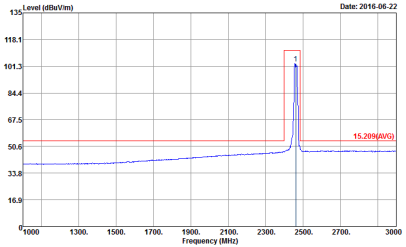


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                               |  |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| ANT  | 802.11g CH06 2437MHz - R                                                                                                                                                                                                                                           |  |
| 1+2  | Vertical                                                                                                                                                                                                                                                           |  |
| Peak |  <p>Site : 03CH07-HY<br/>Condition : 15.209(PK) 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 13</p> |  |
| Avg. |  <p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 13</p> |  |



| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                   |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11g CH11 2462MHz                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                   |
| 1+2  | Horizontal                                                                                                                                                                                                                                                                       | Fundamental                                                                                                                                                                                                                                                                       |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 14</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 14</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Avg) 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 14</p></div>   | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Avg) 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 14</p></div>   |



| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                          |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11g CH11 2462MHz                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                          |
| 1+2  | Vertical                                                                                                                                                                                                                                                                | Fundamental                                                                                                                                                                                                                                                              |
| Peak |  <p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 14</p> |  <p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 14</p> |
| Avg. |  <p>Site : 03CH07-HY<br/>Condition : 15.209(Avg) 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000kHz VBW: 1.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 14</p>   |  <p>Site : 03CH07-HY<br/>Condition : 15.209(Avg) 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000kHz VBW: 1.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 14</p>   |

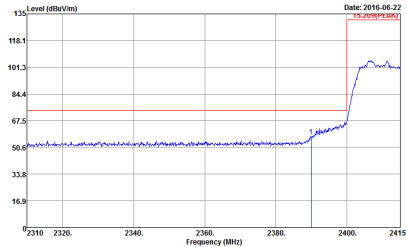
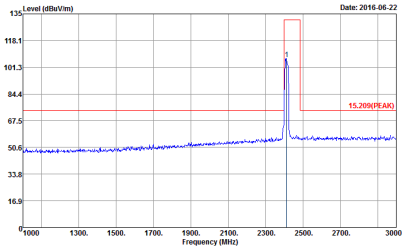
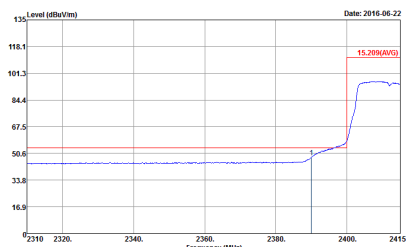
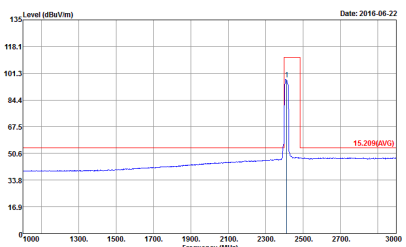


## 2.4GHz 2400~2483.5MHz

## WIFI 802.11ac VHT20 (Band Edge @ 3m)

| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                    |                                                                                                                                         |
|------|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH01 2412MHz                                                                                                             |                                                                                                                                         |
| 1+2  | Horizontal                                                                                                                              | Fundamental                                                                                                                             |
| Peak | <p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 15</p> | <p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 15</p> |
| Avg. | <p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 15</p>  | <p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 15</p>  |



| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                               |                                                                                                                                                                                                                                     |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH01 2412MHz                                                                                                                                                                                                        |                                                                                                                                                                                                                                     |
| 1+2  | Vertical                                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                                         |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 15</p></div>  | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 15</p></div>  |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 15</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 15</p></div> |

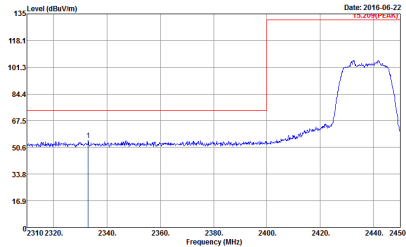
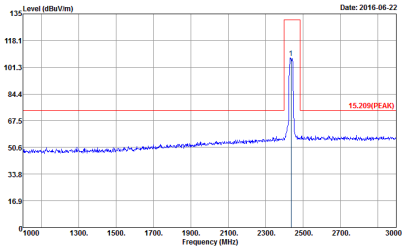
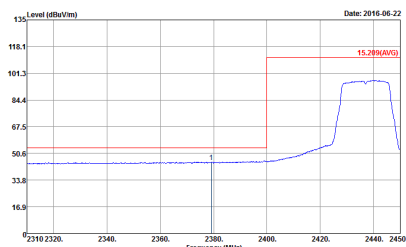
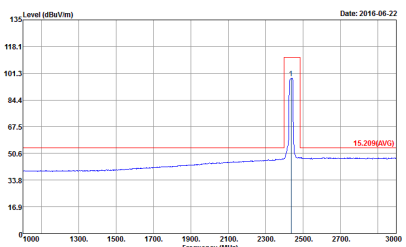


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                    |                                                                                                                                                                                         |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH06 2437MHz - L                                                                                                                                                         |                                                                                                                                                                                         |
| 1+2  | Horizontal                                                                                                                                                                              | Fundamental                                                                                                                                                                             |
| Peak | <p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 HORIZONTAL<br/>RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 16</p> | <p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 HORIZONTAL<br/>RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 16</p> |
| Avg. | <p>Site : 03CH07-HY<br/>Condition : 15.289(AVG) 3m HF-ANT_130829 HORIZONTAL<br/>RBW: 1000.000kHz VBW: 1.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 16</p>     | <p>Site : 03CH07-HY<br/>Condition : 15.289(AVG) 3m HF-ANT_130829 HORIZONTAL<br/>RBW: 1000.000kHz VBW: 1.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 16</p>     |

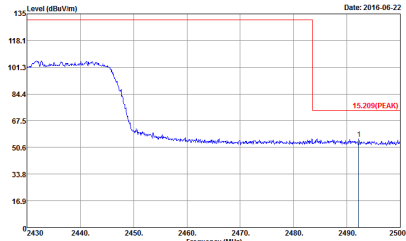
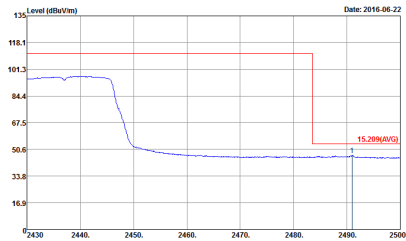


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                               |  |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------|--|
| ANT  | 802.11ac VH20 CH06 2437MHz - R                                                                                                                     |  |
| 1+2  | Horizontal                                                                                                                                         |  |
| Peak | <div><p>Site : 03CH074HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 16</p></div> |  |
| Avg. | <div><p>Site : 03CH074HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 16</p></div>  |  |

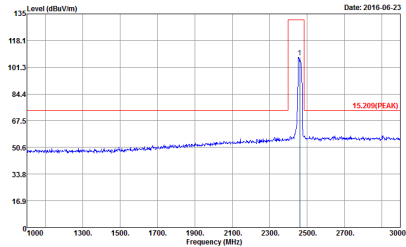
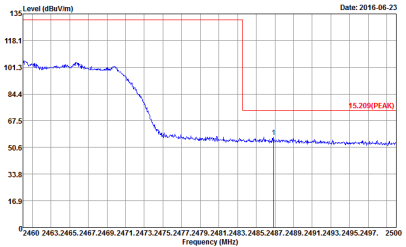
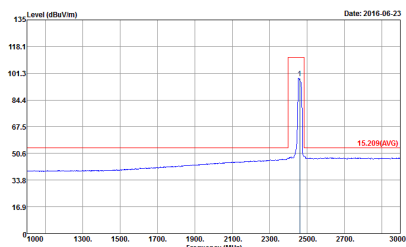
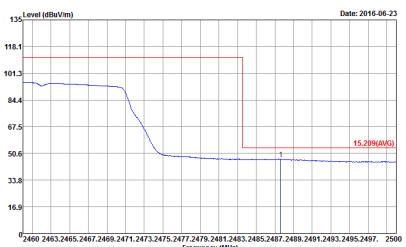


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                        |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VH20 CH06 2437MHz - L                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                        |
| 1+2  | Vertical                                                                                                                                                                                                                                                              | Fundamental                                                                                                                                                                                                                                                            |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Project : 660115<br/>Mode : 16</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Project : 660115<br/>Mode : 16</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : 15.289(AVG) 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Project : 660115<br/>Mode : 16</p></div>   | <div><p>Site : 03CH07-HY<br/>Condition : 15.289(AVG) 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Project : 660115<br/>Mode : 16</p></div>   |

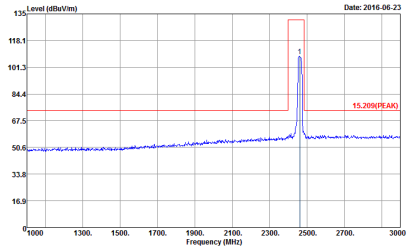
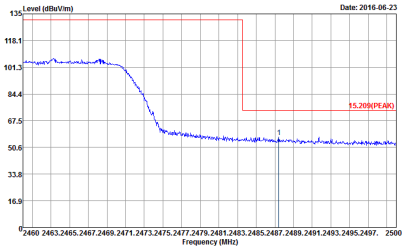
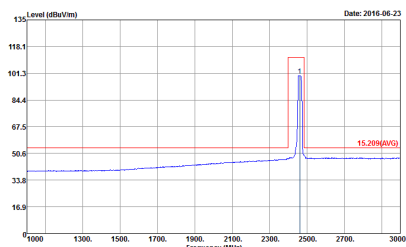
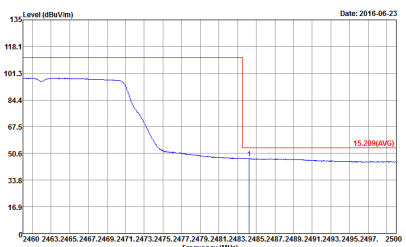


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                    |  |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| ANT  | 802.11ac VH20 CH06 2437MHz - R                                                                                                                                                                                                                                          |  |
| 1+2  | Vertical                                                                                                                                                                                                                                                                |  |
| Peak |  <p>Site : 03CH074HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 16</p> |  |
| Avg. |  <p>Site : 03CH074HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000kHz VBW: 1.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 660115<br/>Mode : 16</p>   |  |



| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                          |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VH20 CH11 2462MHz                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                          |
| 1+2  | Horizontal                                                                                                                                                                                                                                                              | Fundamental                                                                                                                                                                                                                                                              |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 HORIZONTAL<br/>Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Project : 660115<br/>Mode : 17</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 HORIZONTAL<br/>Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Project : 660115<br/>Mode : 17</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 HORIZONTAL<br/>Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Project : 660115<br/>Mode : 17</p></div>   | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 HORIZONTAL<br/>Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Project : 660115<br/>Mode : 17</p></div>   |



| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                 |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VH20 CH11 2462MHz                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                 |
| 1+2  | Vertical                                                                                                                                                                                                                                                                                       | Fundamental                                                                                                                                                                                                                                                                                     |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Peak : 115.209(Peak)<br/>Project : 660115<br/>Mode : 17</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(Peak) 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Peak : 115.209(Peak)<br/>Project : 660115<br/>Mode : 17</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Peak : 115.209(AVG)<br/>Project : 660115<br/>Mode : 17</p></div>    | <div><p>Site : 03CH07-HY<br/>Condition : 15.209(AVG) 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Peak : 115.209(AVG)<br/>Project : 660115<br/>Mode : 17</p></div>    |