



# FCC RADIO TEST REPORT

**FCC ID** : O57TB8705F  
**Equipment** : Portable Tablet Computer  
**Brand Name** : Lenovo  
**Model Name** : Lenovo TB-8705F  
**Applicant** : Lenovo(Shanghai) Electronics Technology Co., Ltd.  
Section 304-305, Building No. 4, # 222, Meiyue  
Road, China (Shanghai) Pilot Free Trade Zone  
**Manufacturer** : Lenovo PC HK Limited  
23/F, Lincoln House, Taikoo Place 979 King's Road,  
Quarry Bay, Hong Kong, P.R.CHINA  
**Standard** : FCC Part 15 Subpart C §15.247

The product was received on Aug. 28, 2019 and testing was started from Aug. 28, 2019 and completed on Nov. 05, 2019. We, SPORTON INTERNATIONAL INC., EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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

*Louis Wu*

Approved by: Louis Wu

**SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory**  
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C)



## Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
<b>1 General Description .....</b>	<b>5</b>
1.1 Product Feature of Equipment Under Test.....	5
1.2 Modification of EUT .....	5
1.3 Testing Location .....	5
1.4 Applicable Standards.....	6
<b>2 Test Configuration of Equipment Under Test .....</b>	<b>7</b>
2.1 Carrier Frequency and Channel .....	7
2.2 Test Mode.....	8
2.3 Connection Diagram of Test System.....	9
2.4 Support Unit used in test configuration and system .....	9
2.5 EUT Operation Test Setup .....	10
2.6 Measurement Results Explanation Example.....	10
<b>3 Test Result .....</b>	<b>11</b>
3.1 6dB and 99% Bandwidth Measurement .....	11
3.2 Output Power Measurement.....	13
3.3 Power Spectral Density Measurement .....	14
3.4 Conducted Band Edges and Spurious Emission Measurement .....	16
3.5 Radiated Band Edges and Spurious Emission Measurement .....	29
3.6 AC Conducted Emission Measurement.....	33
3.7 Antenna Requirements .....	35
<b>4 List of Measuring Equipment.....</b>	<b>36</b>
<b>5 Uncertainty of Evaluation .....</b>	<b>37</b>
<b>Appendix A. Conducted Test Results</b>	
<b>Appendix B. AC Conducted Emission Test Result</b>	
<b>Appendix C. Radiated Spurious Emission</b>	
<b>Appendix D. Radiated Spurious Emission Plots</b>	
<b>Appendix E. Duty Cycle Plots</b>	
<b>Appendix F. Setup Photographs</b>	





### Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.247(a)(2)	6dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.247(b)	Power Output Measurement	Pass	-
3.3	15.247(e)	Power Spectral Density	Pass	-
3.4	15.247(d)	Conducted Band Edges	Pass	-
		Conducted Spurious Emission	Pass	-
3.5	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	Pass	Under limit 3.28 dB at 2389.940 MHz
3.6	15.207	AC Conducted Emission	Pass	Under limit 4.97 dB at 26.000 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	Pass	-

**Remark :** The test result of AC conducted emission was performed in this test report, and the other test results reuse test data from Sporton Report No. TR982030C.

<b>Declaration of Conformity:</b>
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
<b>Comments and Explanations:</b>
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

**Reviewed by: Wii Chang**  
**Report Producer: Lucy Wu**



# 1 General Description

## 1.1 Product Feature of Equipment Under Test

Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n, Wi-Fi 5GHz 802.11a/n/ac, FM Receiver, and GNSS.

Product Specification subjective to this standard	
Sample 1	1st sample (refer to sample list)
Sample 2	2nd sample (refer to sample list)
Antenna Type	WLAN: Monopole Antenna Bluetooth: Monopole Antenna GPS / Glonass / BDS: Monopole Antenna FM: Using earphone as antenna

## 1.2 Modification of EUT

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

## 1.3 Testing Location

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory	
Test Site Location	No.52 , Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C) TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	<b>Sporton Site No.</b>	
	TH05-HY	CO05-HY

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

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory	
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C) TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	<b>Sporton Site No.</b>	
	03CH12-HY	

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

FCC designation No.: TW1190 and TW0007



## 1.4 Applicable Standards

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

- ♦ FCC Part 15 Subpart C §15.247
- ♦ FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v05r02
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ ANSI C63.10-2013

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



## 2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.
  
- b. AC power line Conducted Emission was tested under maximum output power.

### 2.1 Carrier Frequency and Channel

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



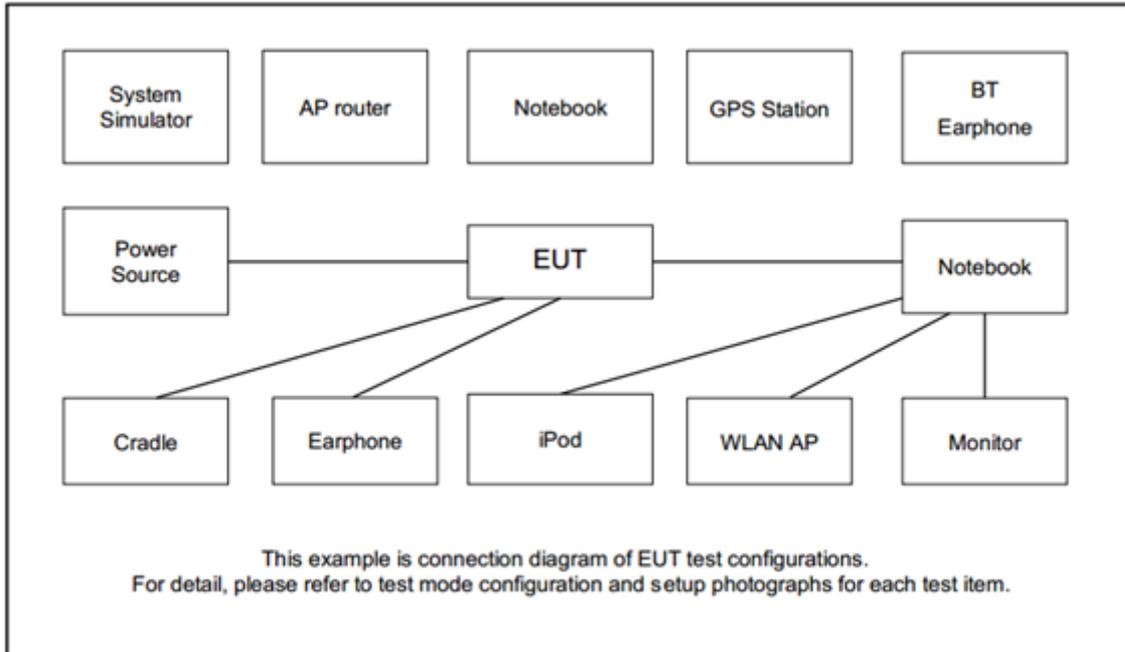
## 2.2 Test Mode

Final test modes are considering the modulation and worse data rates as below table.

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

Test Cases	
<b>AC Conducted Emission</b>	Mode 1 : Bluetooth Link + WLAN (2.4GHz) Link + Video Record (Front Camera) + Earphone + SD Card + USB Cable 1 (Charging from AC Adapter 1) for Sample 1
	Mode 2 : Bluetooth Link + WLAN (5GHz) Link + Video Record (Rear Camera) + Earphone + SD Card + USB Cable 2 (Charging from AC Adapter 2) for Sample 1
	Mode 3 : Bluetooth Link + WLAN (2.4GHz) Link + FM Rx + Earphone + SD Card + USB Cable 1 (Charging from AC Adapter 2) for Sample 1
	Mode 4 : Bluetooth Link + WLAN (5GHz) Link + MPEG4 + Earphone + SD Card + USB Cable 2 (Charging from AC Adapter 1) for Sample 1
	Mode 5 : Bluetooth Idle + WLAN (2.4GHz) Idle + H-Patten + Earphone + SD Card + USB Cable 2 (Data Link with Notebook) (Read) for Sample 1
	Mode 6 : Bluetooth Idle + WLAN (5GHz) Idle + GPS Rx + Earphone + SD Card + USB Cable 2 (Data Link with Notebook) (Write) for Sample 1
	Mode 7 : Bluetooth Link + WLAN (5GHz) Link + MPEG4 + Earphone + SD Card + USB Cable 2 (Charging from AC Adapter 1) for Sample 2
<b>Remark:</b>	
1. The worst case of conducted emission is mode 4; only the test data of it was reported.	
2. For Radiated Test Cases, the tests were performed with USB Cable 1.	

### 2.3 Connection Diagram of Test System



### 2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	GPS Station	Pendulum	GSG-54	N/A	N/A	Unshielded, 1.8 m
3.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
4.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
5.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A
6.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A
7.	Notebook	DELL	Latitude E3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
8.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A



## 2.5 EUT Operation Test Setup

The RF test items, make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

## 2.6 Measurement Results Explanation Example

**For all conducted test items:**

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

*Offset = RF cable loss + attenuator factor.*

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 4.2 + 10 = 14.2 \text{ (dB)} \end{aligned}$$

### 3 Test Result

#### 3.1 6dB and 99% Bandwidth Measurement

##### 3.1.1 Limit of 6dB and 99% Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

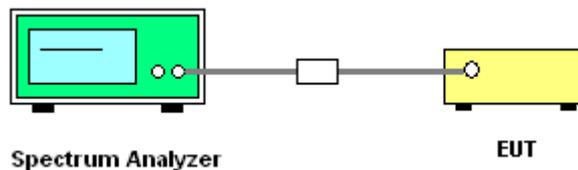
##### 3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

##### 3.1.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.1 (6dB BW).
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW)  $\geq 3 * RBW$ .
6. Measure and record the results in the test report.

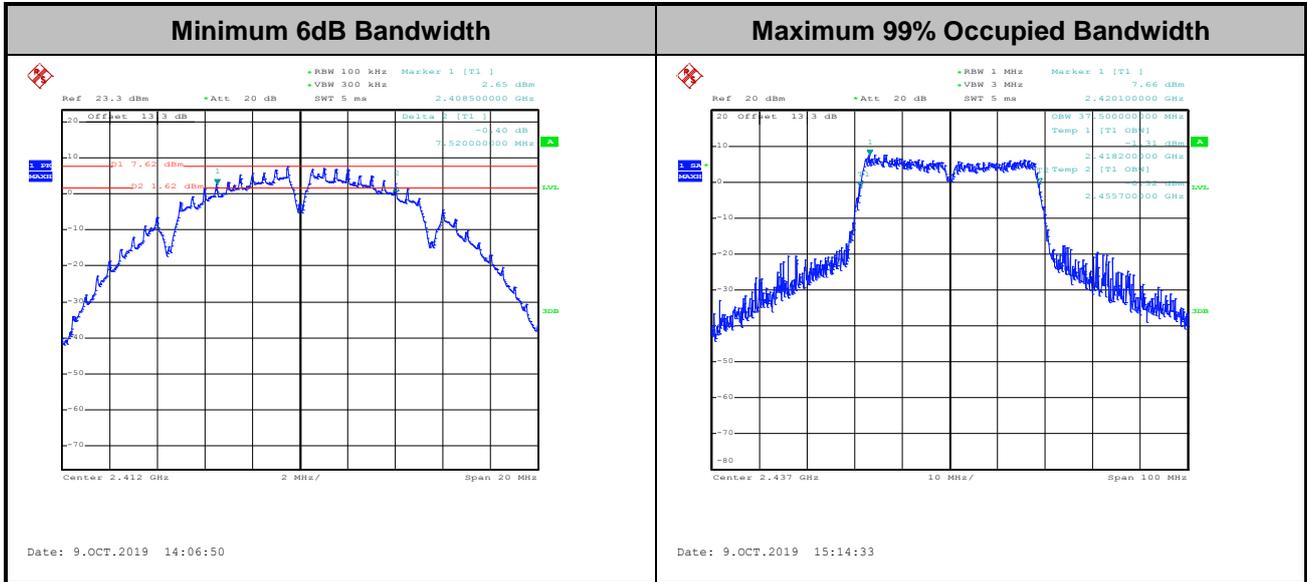
##### 3.1.4 Test Setup





### 3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A.



Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

## 3.2 Output Power Measurement

### 3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna with directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

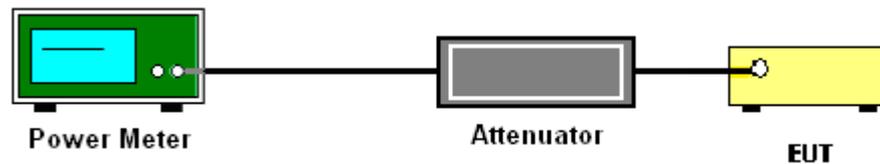
### 3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

### 3.2.3 Test Procedures

1. For Average Power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.

### 3.2.4 Test Setup



### 3.2.5 Test Result of Average Output Power

Please refer to Appendix A.

### 3.3 Power Spectral Density Measurement

#### 3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

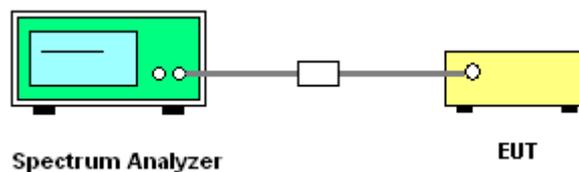
#### 3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

#### 3.3.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.

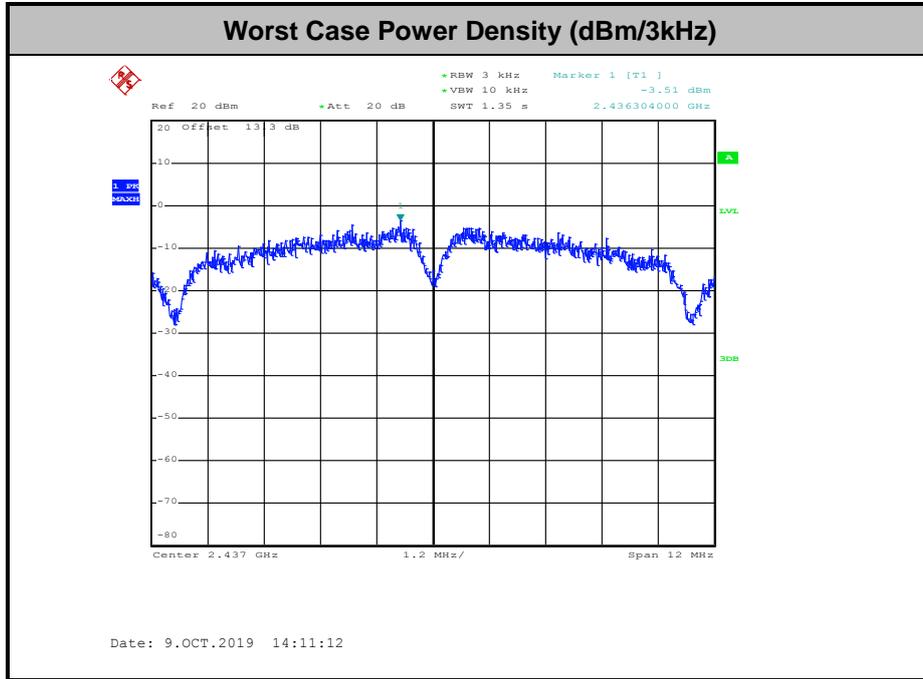
#### 3.3.4 Test Setup





### 3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



## 3.4 Conducted Band Edges and Spurious Emission Measurement

### 3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement.

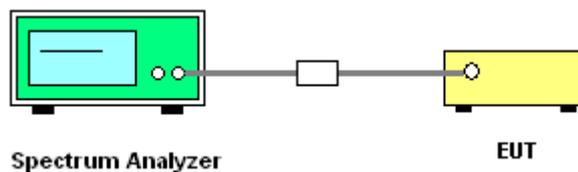
### 3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

### 3.4.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.11.3 Emission level measurement.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

### 3.4.4 Test Setup

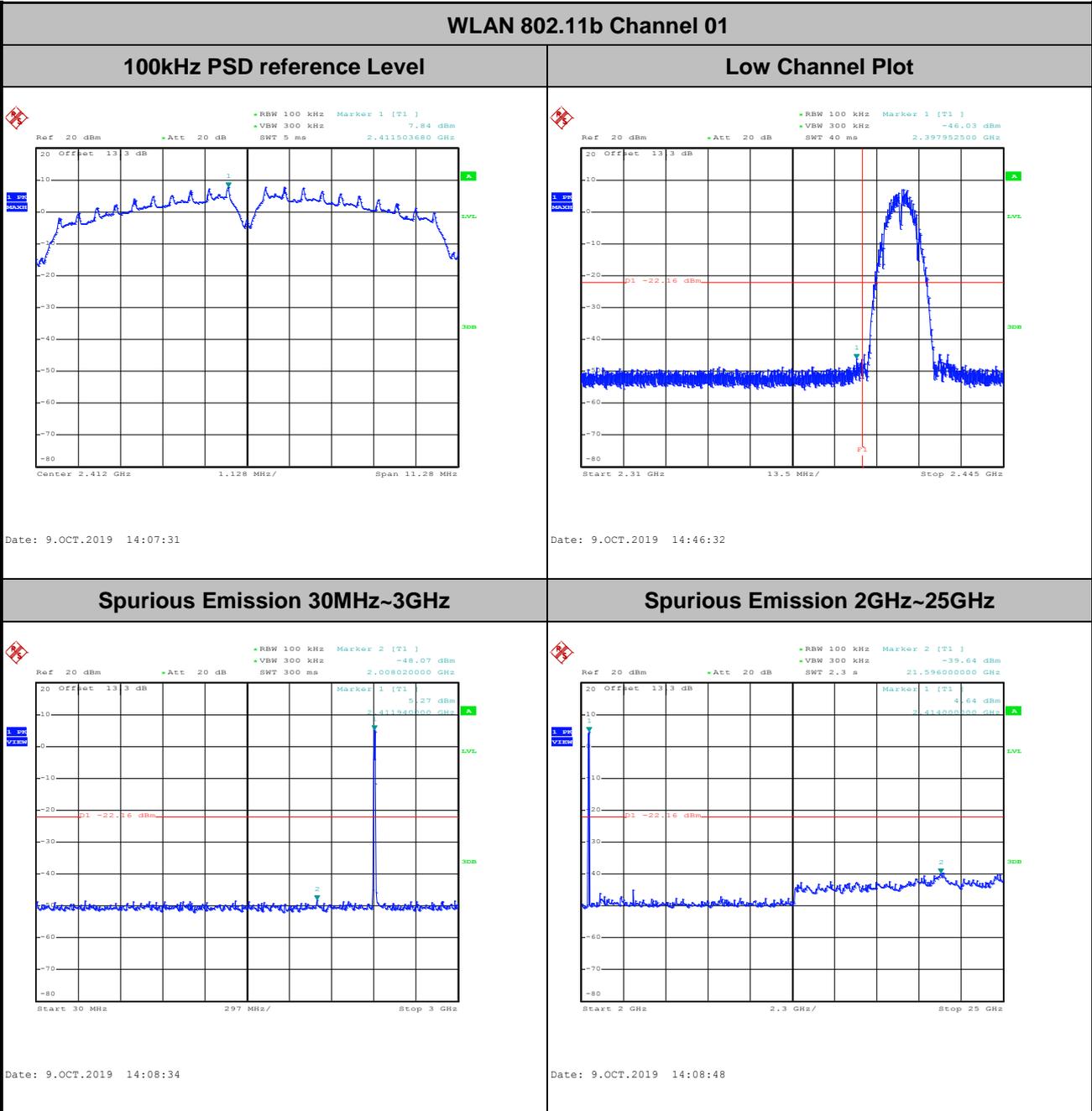




3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Test Engineer : Owen Yang	Temperature :	21~25°C
	Relative Humidity :	51~54%

<802.11b>

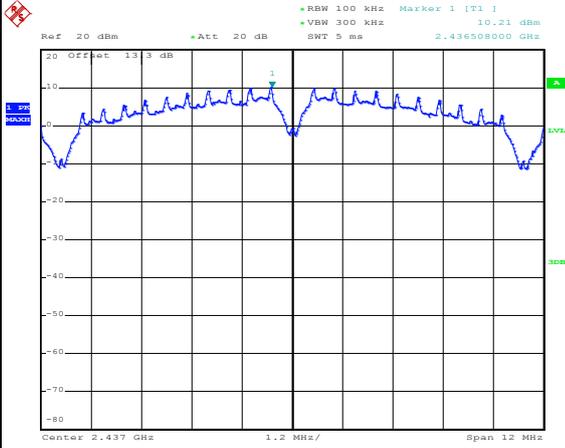




WLAN 802.11b Channel 06

100kHz PSD reference Level

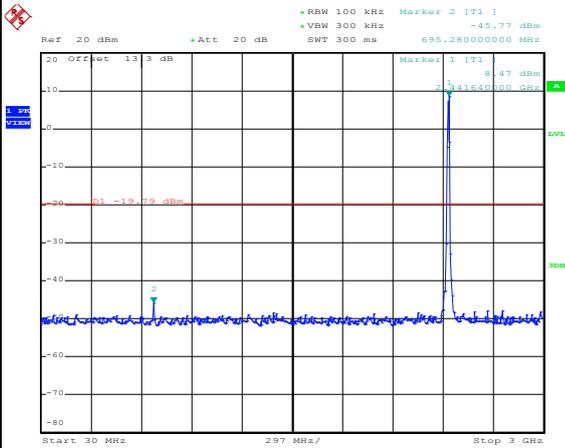
Mid Channel Plot



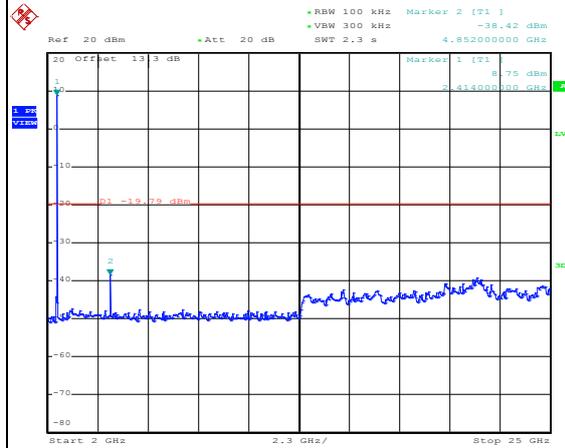
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Spurious Emission 30MHz~3GHz

Spurious Emission 2GHz~25GHz



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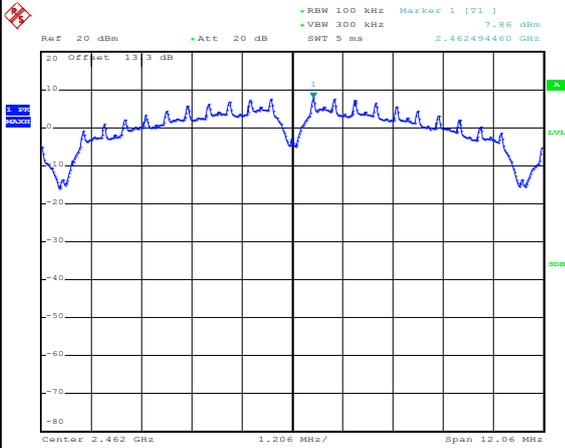


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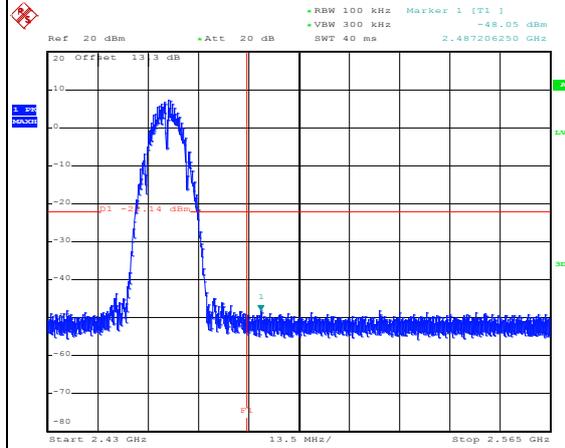
WLAN 802.11b Channel 11

100kHz PSD reference Level



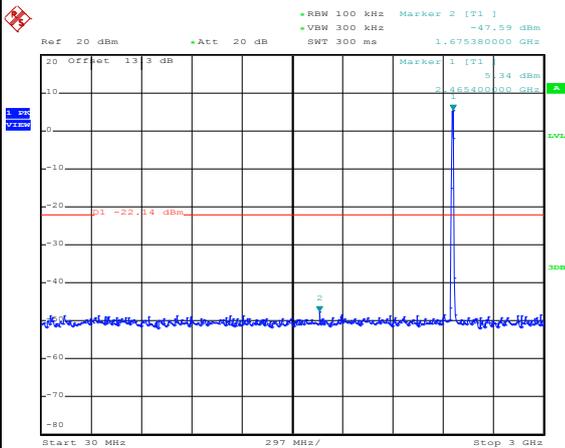
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High Channel Plot



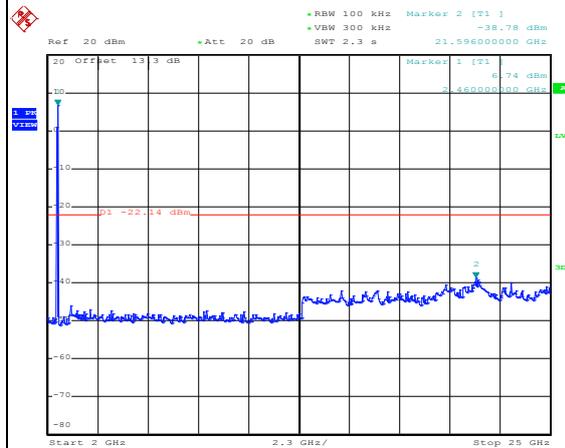
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Spurious Emission 30MHz~3GHz



Date: 9.OCT.2019 14:15:22

Spurious Emission 2GHz~25GHz



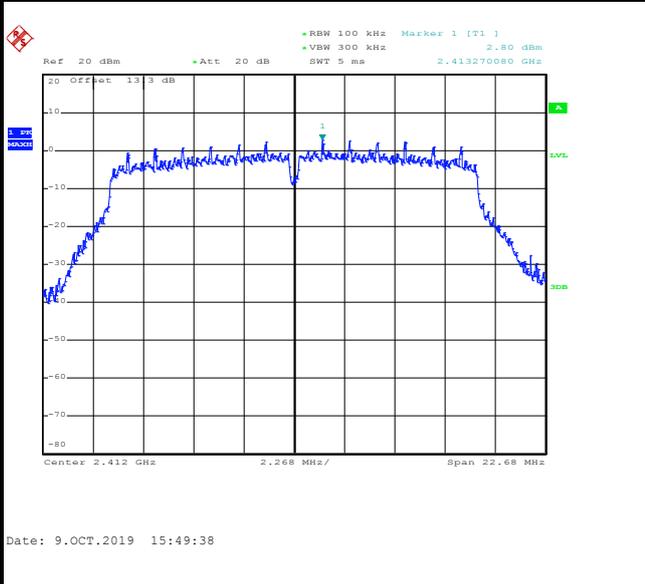
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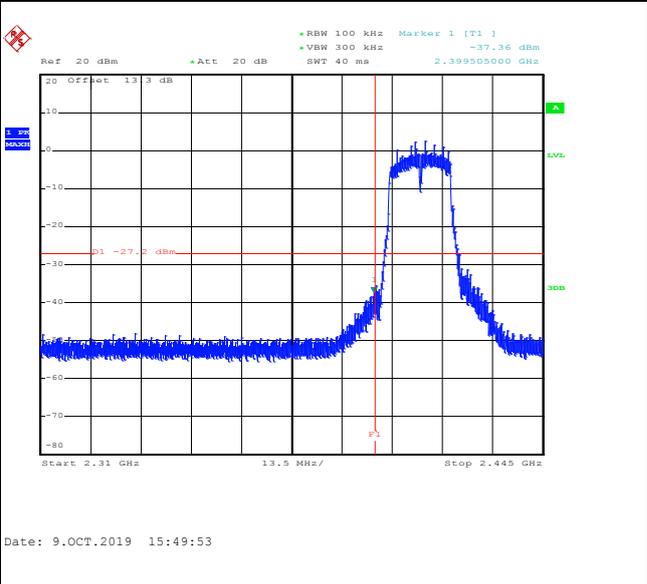
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WLAN 802.11g Channel 01

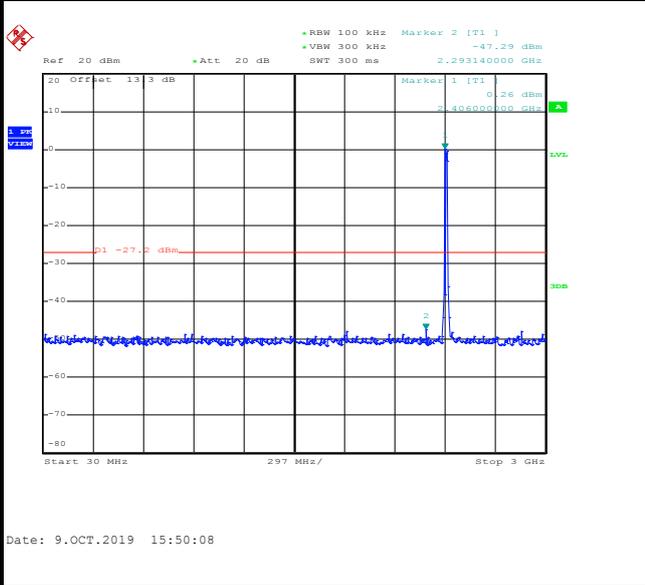
100kHz PSD reference Level



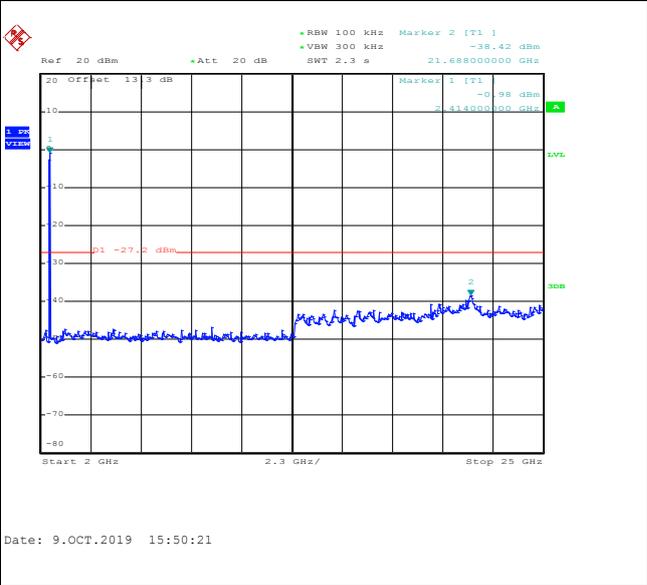
Low Channel Plot



Spurious Emission 30MHz~3GHz



Spurious Emission 2GHz~25GHz

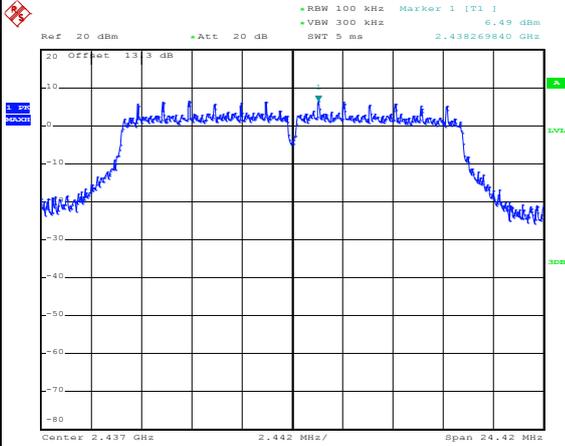




WLAN 802.11g Channel 06

100kHz PSD reference Level

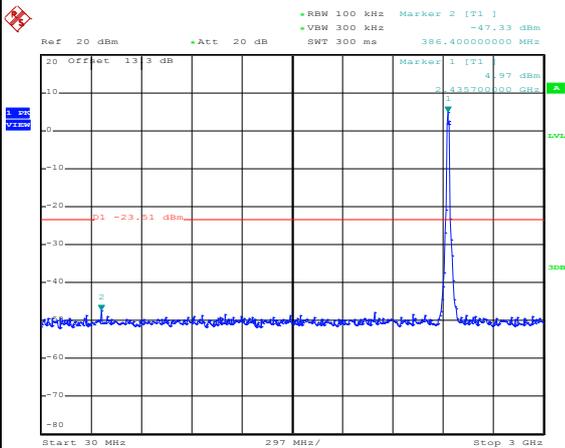
Mid Channel Plot



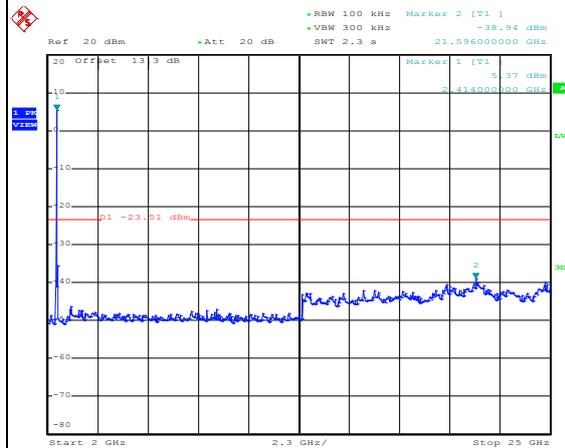
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Spurious Emission 30MHz~3GHz

Spurious Emission 2GHz~25GHz



Date: 9.OCT.2019 18:02:17

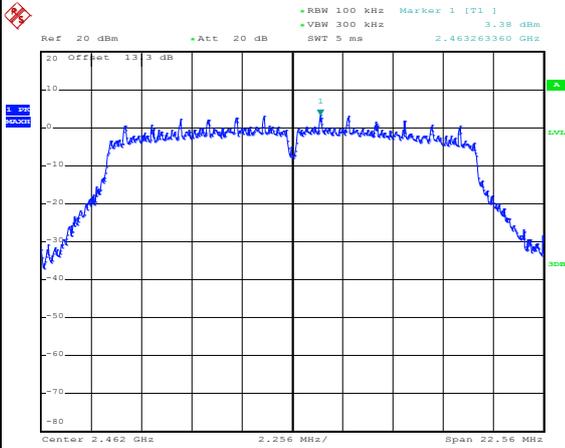


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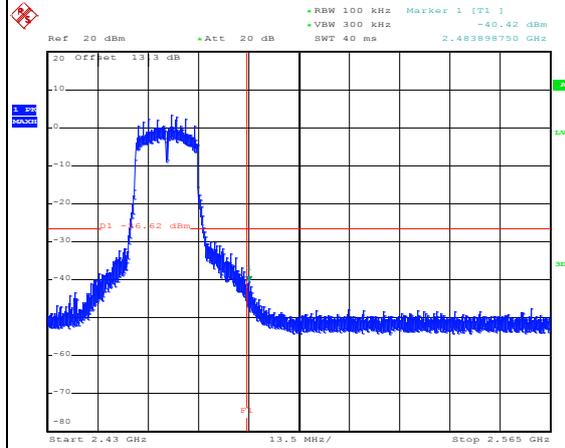
WLAN 802.11g Channel 11

100kHz PSD reference Level



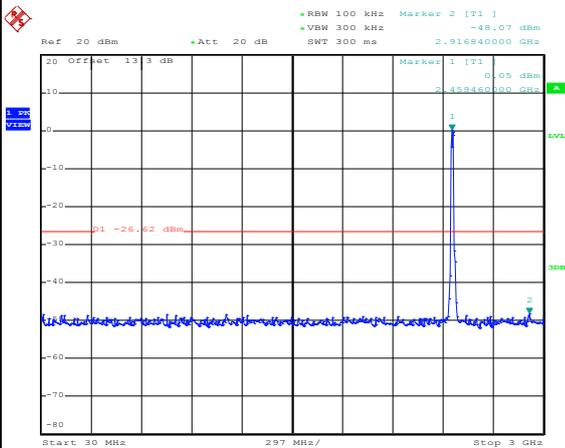
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High Channel Plot



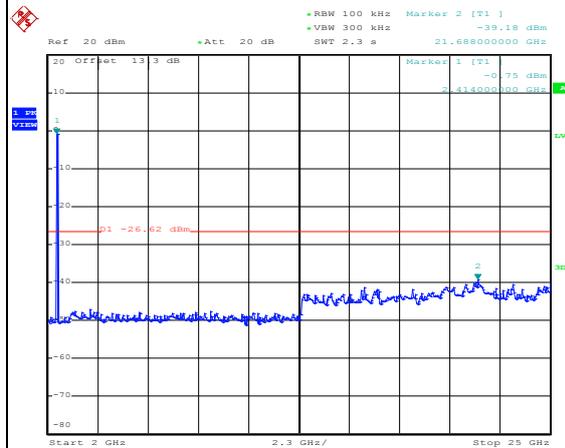
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Spurious Emission 30MHz~3GHz



Date: 9.OCT.2019 18:08:13

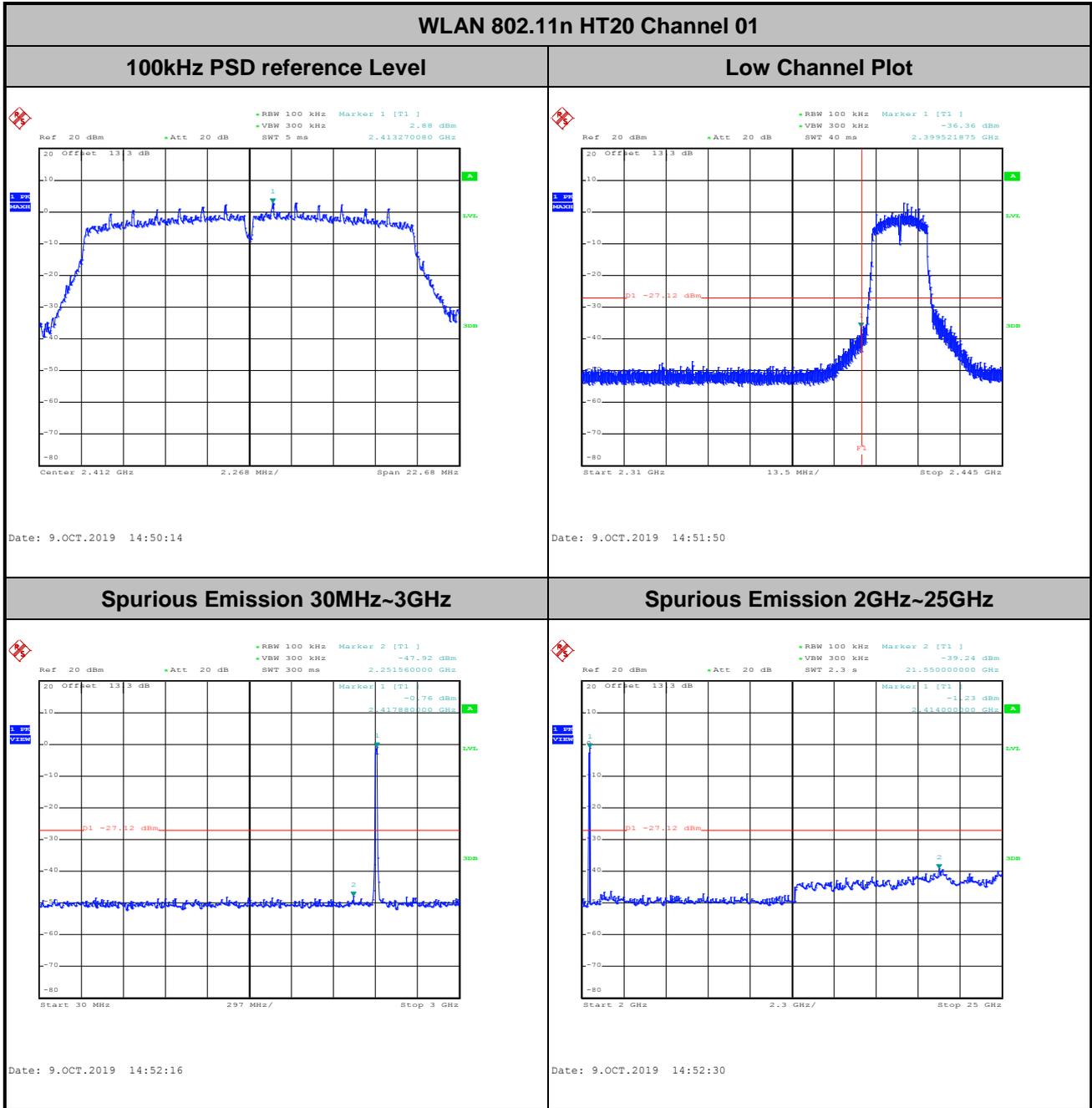
Spurious Emission 2GHz~25GHz

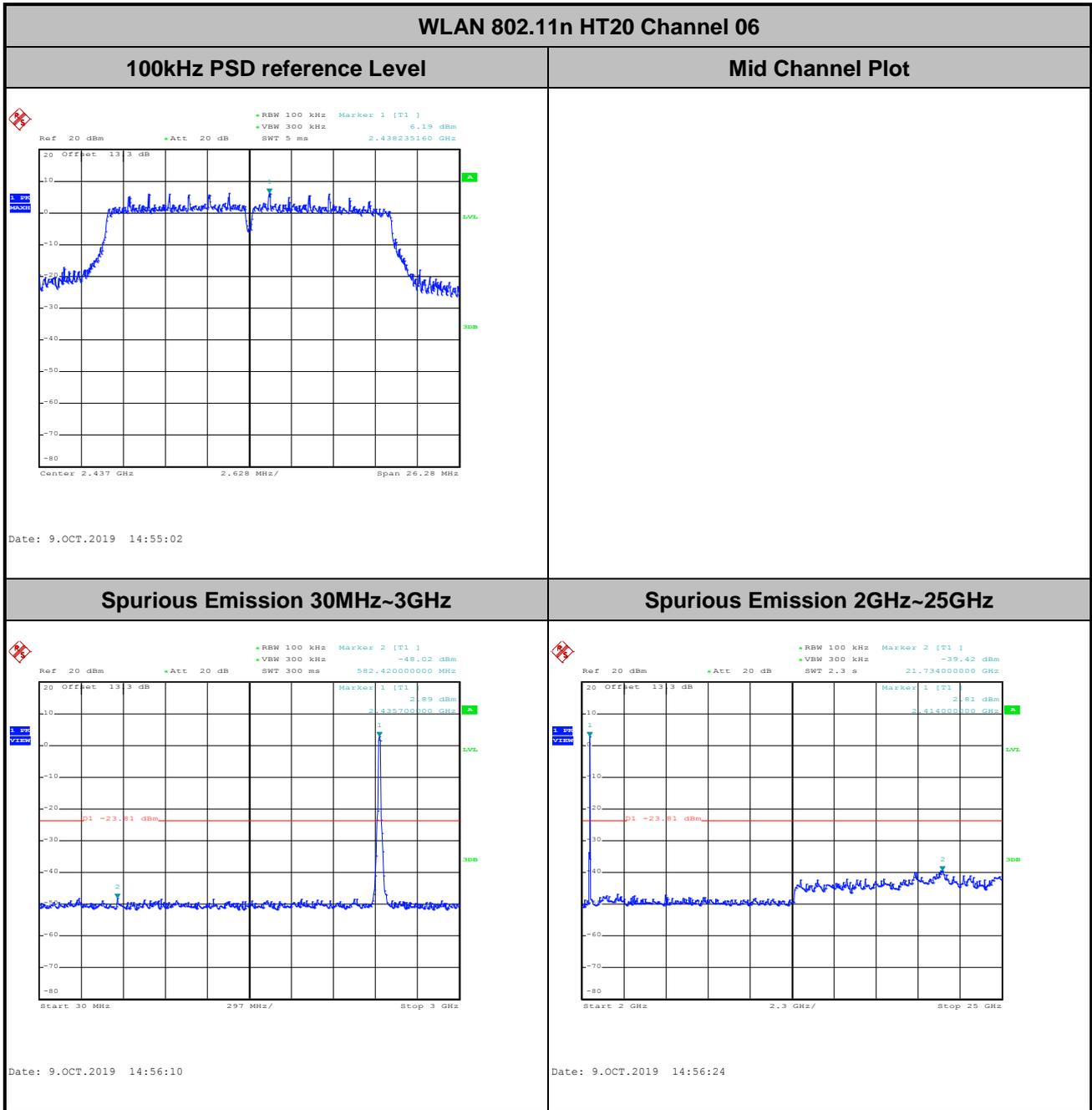


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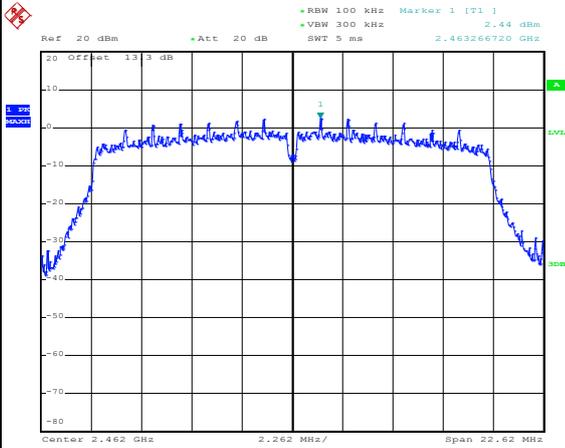






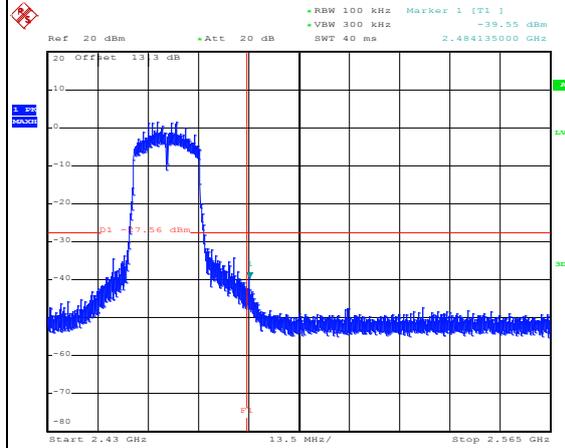
WLAN 802.11n HT20 Channel 11

100kHz PSD reference Level



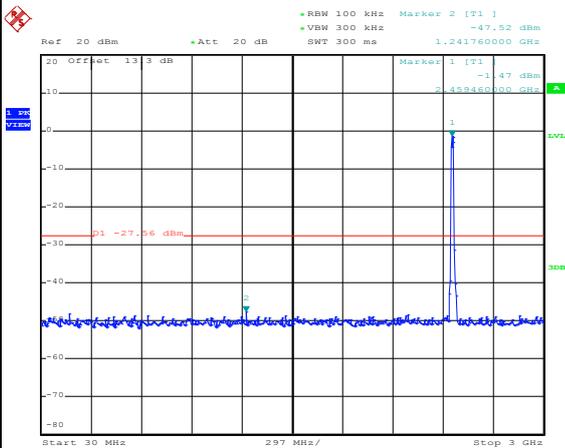
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High Channel Plot



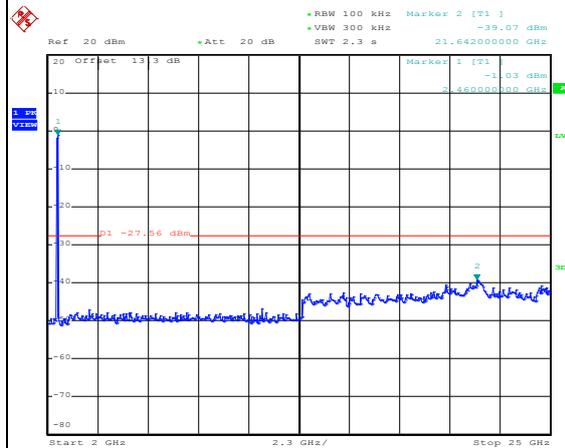
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Spurious Emission 30MHz~3GHz



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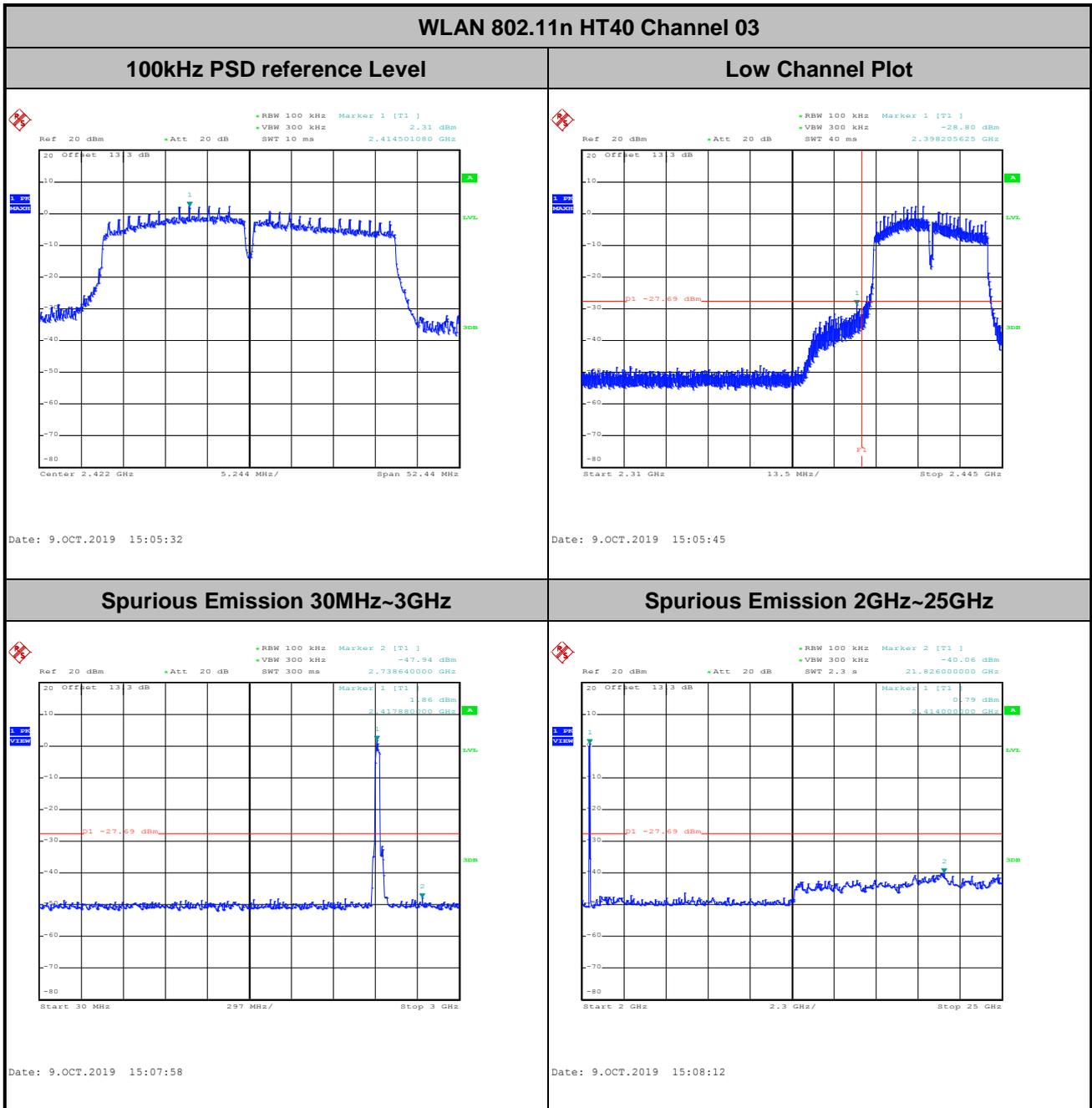
Spurious Emission 2GHz~25GHz



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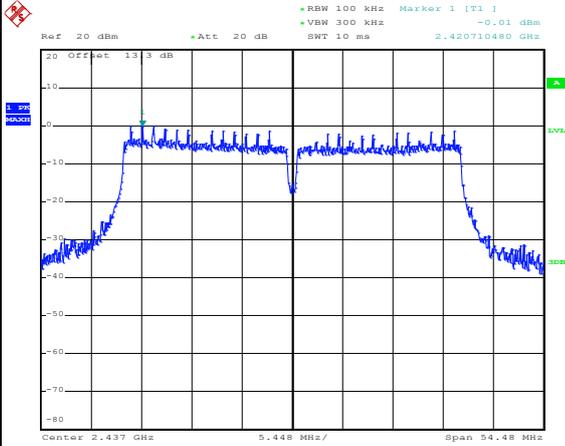




WLAN 802.11n HT40 Channel 06

100kHz PSD reference Level

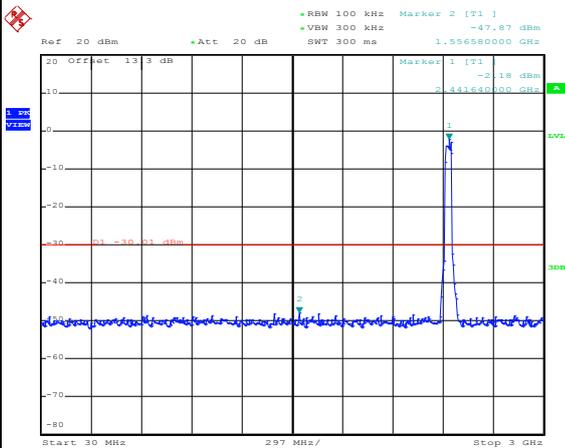
Mid Channel Plot



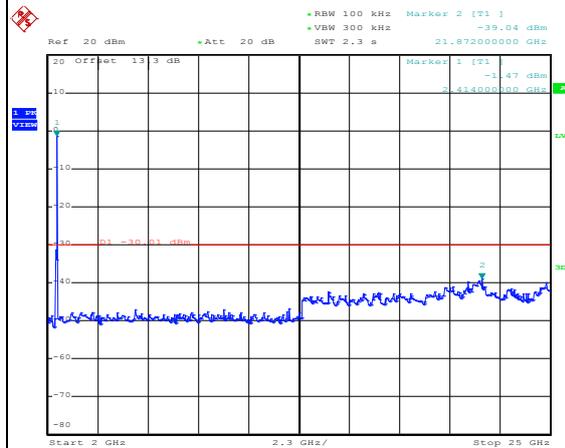
Date: 9.OCT.2019 15:11:13

Spurious Emission 30MHz~3GHz

Spurious Emission 2GHz~25GHz



Date: 9.OCT.2019 15:14:02



Date: 9.OCT.2019 15:14:16





### 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 limits as below.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (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

See list of measuring equipment of this test report.

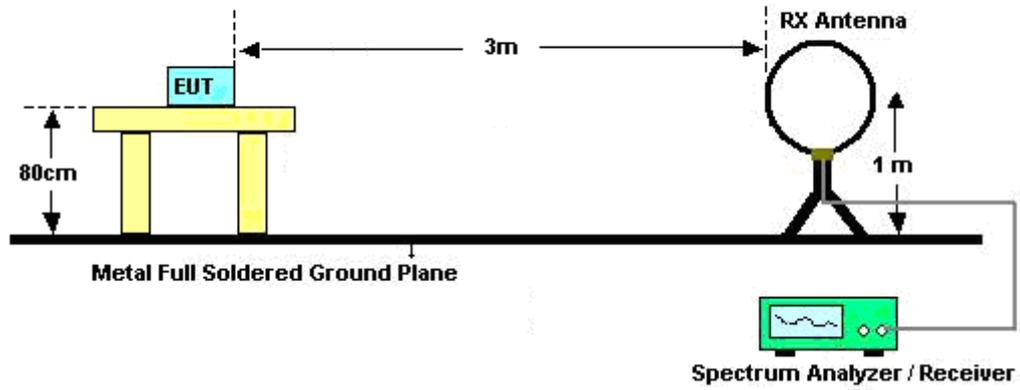


### 3.5.3 Test Procedures

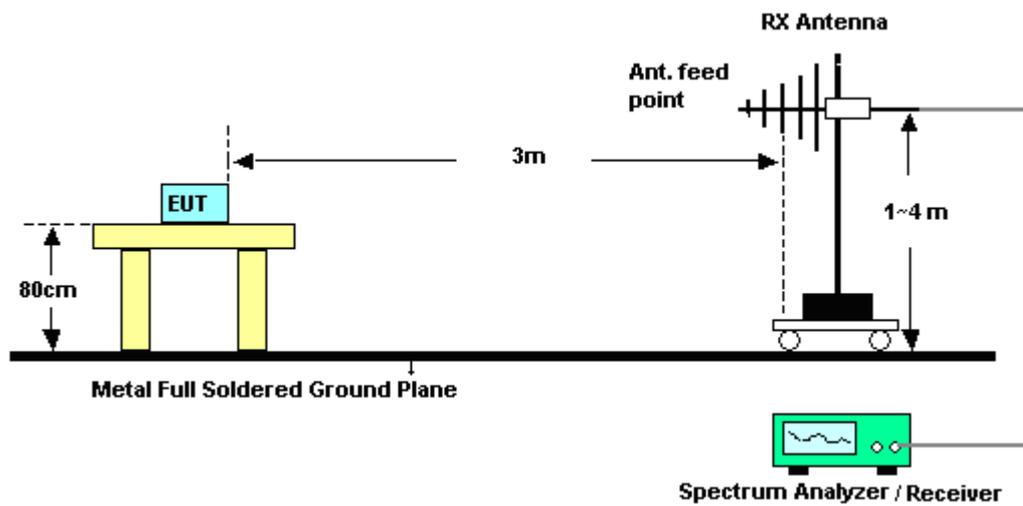
1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the 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 testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
8. 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

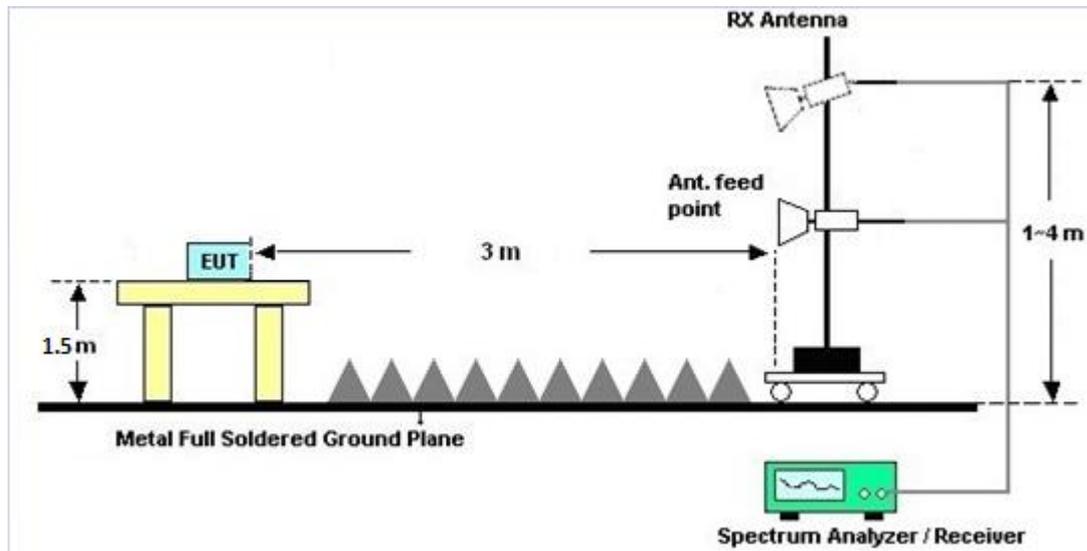
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

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

Please refer to Appendix C and D.

### 3.5.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.



### 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 (MHz)	Conducted Limit (dBµV)	
	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.

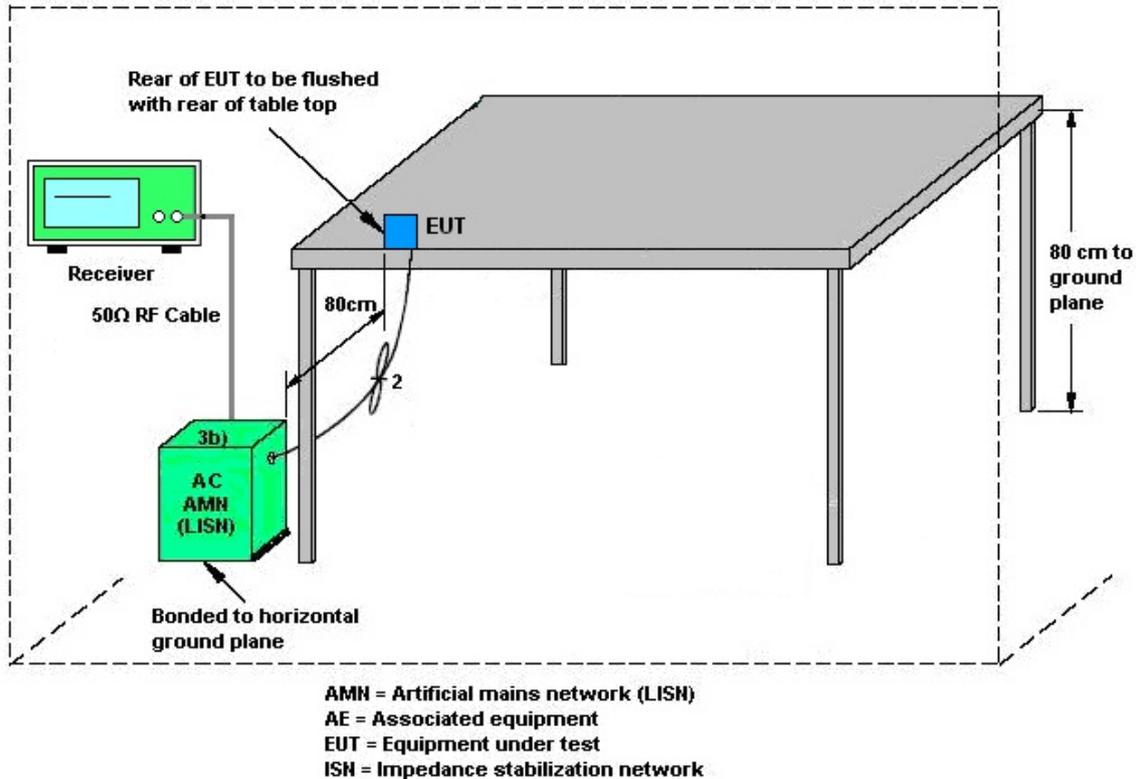
#### 3.6.2 Measuring Instruments

See list of measuring equipment 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



### 3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



## **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. 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 rule.

### **3.7.2 Antenna Anti-Replacement Construction**

An embedded-in antenna design is used.

### **3.7.3 Antenna Gain**

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



## 4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jan. 07, 2019	Sep. 26, 2019~ Oct. 02, 2019	Jan. 06, 2020	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	37059&01	30MHz~1GHz	Oct. 13, 2018	Sep. 26, 2019~ Oct. 02, 2019	Oct. 12, 2019	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-132 8	1GHz ~ 18GHz	Nov. 09, 2018	Sep. 26, 2019~ Oct. 02, 2019	Nov. 08, 2019	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170 584	18GHz ~ 40GHz	Dec. 05, 2018	Sep. 26, 2019~ Oct. 02, 2019	Dec. 04, 2019	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 25, 2019	Sep. 26, 2019~ Oct. 02, 2019	Mar. 24, 2020	Radiation (03CH12-HY)
Preamplifier	Agilent	8449B	3008A023 75	1GHz~26.5GHz	May 27, 2019	Sep. 26, 2019~ Oct. 02, 2019	May 26, 2020	Radiation (03CH12-HY)
Preamplifier	Jet-Power	JPA0118-55-3 03K	171000180 0054002	1GHz~18GHz	Aug. 06, 2019	Sep. 26, 2019~ Oct. 02, 2019	Aug. 05, 2020	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 06, 2018	Sep. 26, 2019~ Oct. 02, 2019	Dec. 05, 2019	Radiation (03CH12-HY)
Spectrum Analyzer	Keysight	N9010A	MY553705 26	10Hz~44GHz	Mar. 19, 2019	Sep. 26, 2019~ Oct. 02, 2019	Mar. 18, 2020	Radiation (03CH12-HY)
Filter	Wainwright	WLKS1200-1 2SS	SN1	1.2 GHz Lowpass	Mar. 22, 2019	Sep. 26, 2019~ Oct. 02, 2019	Mar. 21, 2020	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-270 0-3000-18000 -60ST	SN2	3GHz High Pass	Jul. 15, 2019	Sep. 26, 2019~ Oct. 02, 2019	Jul. 14, 2020	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30M~40GHz	Feb. 26, 2019	Sep. 26, 2019~ Oct. 02, 2019	Feb. 25, 2020	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30M~40GHz	Feb. 26, 2019	Sep. 26, 2019~ Oct. 02, 2019	Feb. 25, 2020	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500- B	N/A	1m~4m	N/A	Sep. 26, 2019~ Oct. 02, 2019	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Sep. 26, 2019~ Oct. 02, 2019	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-00098 9	N/A	N/A	Sep. 26, 2019~ Oct. 02, 2019	N/A	Radiation (03CH12-HY)
Power Sensor	DARE	RPR3006W	13100030S NO32	9kHz~6GHz	Dec. 03, 2018	Aug. 28, 2019~ Oct. 09, 2019	Dec. 02, 2019	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz-40GHz	Nov. 21, 2018	Aug. 28, 2019~ Oct. 09, 2019	Nov. 20, 2019	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC120838 2	N/A	Mar. 27, 2019	Aug. 28, 2019~ Oct. 09, 2019	Mar. 26, 2020	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Nov. 05, 2019	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 12, 2018	Nov. 05, 2019	Nov. 11, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 14, 2018	Nov. 05, 2019	Nov. 13, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 09, 2018	Nov. 05, 2019	Nov. 08, 2019	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Nov. 05, 2019	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Dec. 31, 2018	Nov. 05, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Dec. 31, 2018	Nov. 05, 2019	Dec. 30, 2019	Conduction (CO05-HY)



## 5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	2.2
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### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.1
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### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.2
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### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	4.7
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**Appendix A. Test Result of Conducted Test Items**

Test Engineer:	Owen Yang	Temperature:	21~25	°C
Test Date:	2019/08/28 ~ 2019/10/09	Relative Humidity:	51~54	%
TX Tool		TX Tool Version		

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

2.4GHz Band										
Mod.	Data Rate	N <sub>Tx</sub>	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	12.50	-	7.52	-	0.50	Pass
11b	1Mbps	1	6	2437	13.65	-	8.00	-	0.50	Pass
11b	1Mbps	1	11	2462	12.50	-	8.04	-	0.50	Pass
11g	6Mbps	1	1	2412	16.60	-	15.12	-	0.50	Pass
11g	6Mbps	1	6	2437	17.65	-	16.28	-	0.50	Pass
11g	6Mbps	1	11	2462	16.55	-	15.04	-	0.50	Pass
HT20	MCS0	1	1	2412	17.70	-	15.12	-	0.50	Pass
HT20	MCS0	1	6	2437	18.45	-	17.52	-	0.50	Pass
HT20	MCS0	1	11	2462	17.65	-	15.08	-	0.50	Pass
HT40	MCS0	1	3	2422	36.30	-	34.96	-	0.50	Pass
HT40	MCS0	1	6	2437	37.50	-	36.32	-	0.50	Pass
HT40	MCS0	1	9	2452	36.20	-	35.04	-	0.50	Pass

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

2.4GHz Band																
Mod.	Data Rate	N <sub>Tx</sub>	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	
11b	1Mbps	1	1	2412	15.70	-	-	30.00	-	0.70	-	16.40	-	36.00	-	Pass
11b	1Mbps	1	6	2437	18.50	-		30.00	-	0.70	-	19.20	-	36.00	-	Pass
11b	1Mbps	1	11	2462	15.90	-		30.00	-	0.70	-	16.60	-	36.00	-	Pass
11g	6Mbps	1	1	2412	13.60	-		30.00	-	0.70	-	14.30	-	36.00	-	Pass
11g	6Mbps	1	6	2437	17.90	-		30.00	-	0.70	-	18.60	-	36.00	-	Pass
11g	6Mbps	1	11	2462	14.40	-		30.00	-	0.70	-	15.10	-	36.00	-	Pass
HT20	MCS0	1	1	2412	13.70	-		30.00	-	0.70	-	14.40	-	36.00	-	Pass
HT20	MCS0	1	6	2437	17.80	-		30.00	-	0.70	-	18.50	-	36.00	-	Pass
HT20	MCS0	1	11	2462	13.40	-		30.00	-	0.70	-	14.10	-	36.00	-	Pass
HT40	MCS0	1	3	2422	15.20	-		30.00	-	0.70	-	15.90	-	36.00	-	Pass
HT40	MCS0	1	6	2437	13.70	-		30.00	-	0.70	-	14.40	-	36.00	-	Pass
HT40	MCS0	1	9	2452	12.30	-		30.00	-	0.70	-	13.00	-	36.00	-	Pass

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

**TEST RESULTS DATA**  
**Peak Power Spectral Density**

2.4GHz Band												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant 1	Ant 2	Worse + 3.01	Ant 1	Ant 2	Ant 1	Ant 2	
11b	1Mbps	1	1	2412	-6.32	-	-	0.70	-	8.00	-	Pass
11b	1Mbps	1	6	2437	-3.51	-	-	0.70	-	8.00	-	Pass
11b	1Mbps	1	11	2462	-6.52	-	-	0.70	-	8.00	-	Pass
11g	6Mbps	1	1	2412	-11.04	-	-	0.70	-	8.00	-	Pass
11g	6Mbps	1	6	2437	-6.71	-	-	0.70	-	8.00	-	Pass
11g	6Mbps	1	11	2462	-11.15	-	-	0.70	-	8.00	-	Pass
HT20	MCS0	1	1	2412	-11.46	-	-	0.70	-	8.00	-	Pass
HT20	MCS0	1	6	2437	-8.45	-	-	0.70	-	8.00	-	Pass
HT20	MCS0	1	11	2462	-12.37	-	-	0.70	-	8.00	-	Pass
HT40	MCS0	1	3	2422	-12.23	-	-	0.70	-	8.00	-	Pass
HT40	MCS0	1	6	2437	-15.47	-	-	0.70	-	8.00	-	Pass
HT40	MCS0	1	9	2452	-15.58	-	-	0.70	-	8.00	-	Pass

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



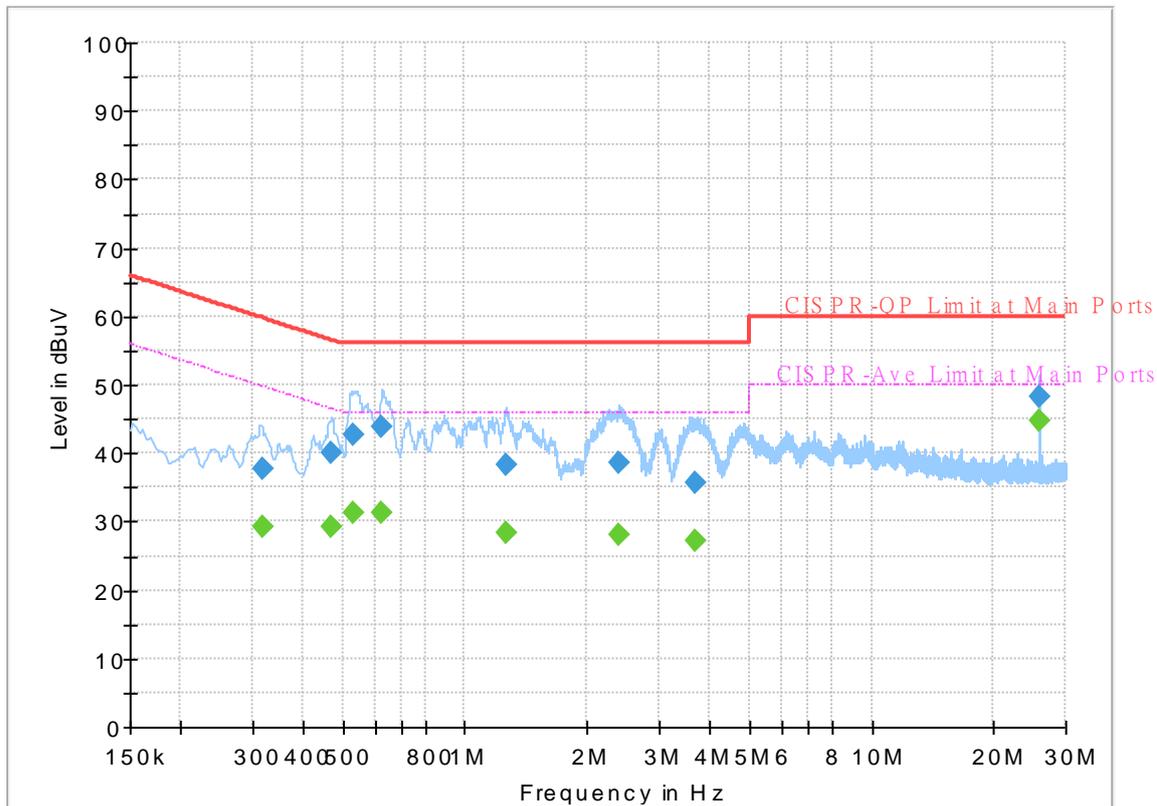
## Appendix B. AC Conducted Emission Test Results

Test Engineer :	Howard Huang and Tom Lee	Temperature :	24.2~25.6°C
		Relative Humidity :	45.6~52.3%

# EUT Information

Report NO : 9O2401  
 Test Mode : Mode 4  
 Test Voltage : 120Vac/60Hz  
 Phase : Line

Full Spectrum



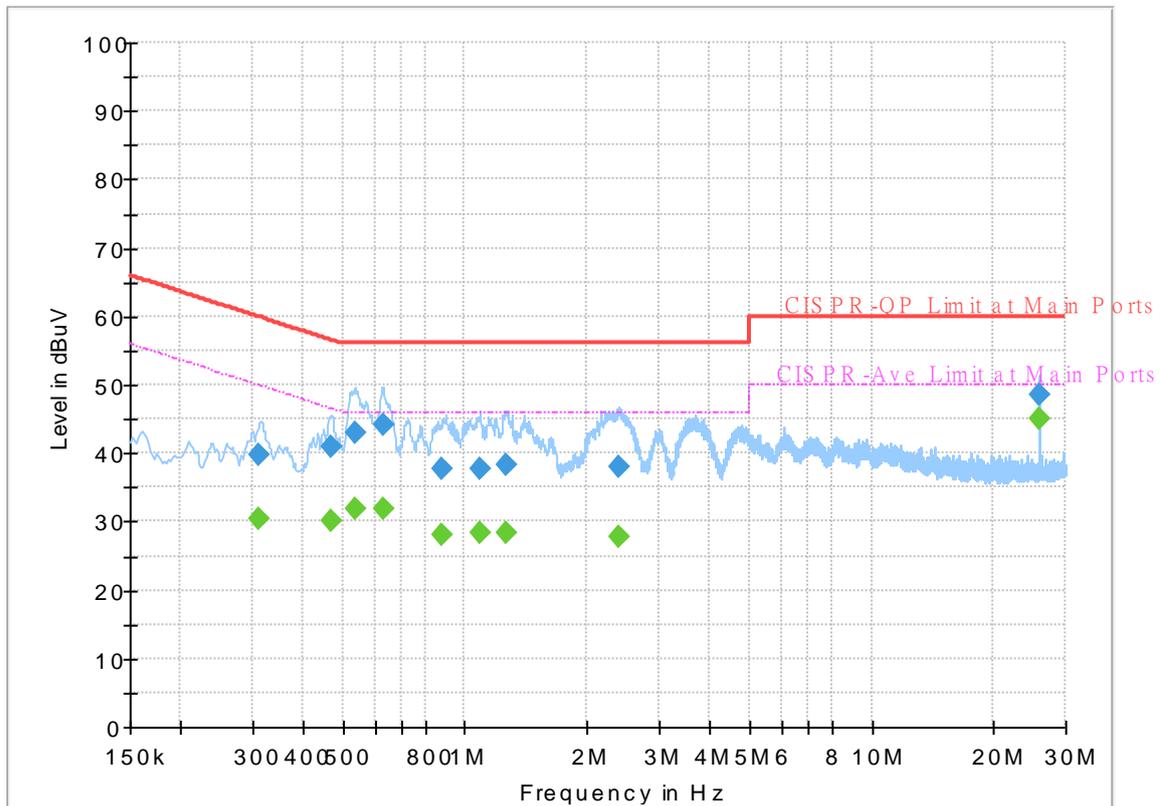
## Final\_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.316500	---	29.32	49.80	20.48	L1	OFF	19.4
0.316500	37.84	---	59.80	21.96	L1	OFF	19.4
0.469500	---	29.22	46.52	17.30	L1	OFF	19.4
0.469500	40.09	---	56.52	16.43	L1	OFF	19.4
0.532500	---	31.29	46.00	14.71	L1	OFF	19.4
0.532500	42.57	---	56.00	13.43	L1	OFF	19.4
0.624750	---	31.24	46.00	14.76	L1	OFF	19.4
0.624750	43.78	---	56.00	12.22	L1	OFF	19.4
1.261500	---	28.29	46.00	17.71	L1	OFF	19.5
1.261500	38.32	---	56.00	17.68	L1	OFF	19.5
2.386500	---	27.96	46.00	18.04	L1	OFF	19.5
2.386500	38.51	---	56.00	17.49	L1	OFF	19.5
3.707250	---	27.26	46.00	18.74	L1	OFF	19.6
3.707250	35.78	---	56.00	20.22	L1	OFF	19.6
26.000250	---	44.75	50.00	5.25	L1	OFF	20.3
26.000250	48.24	---	60.00	11.76	L1	OFF	20.3

## EUT Information

Report NO : 9O2401  
 Test Mode : Mode 4  
 Test Voltage : 120Vac/60Hz  
 Phase : Neutral

Full Spectrum



## Final\_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.312000	---	30.51	49.92	19.41	N	OFF	19.5
0.312000	39.86	---	59.92	20.06	N	OFF	19.5
0.469500	---	30.25	46.52	16.27	N	OFF	19.5
0.469500	40.96	---	56.52	15.56	N	OFF	19.5
0.534750	---	31.91	46.00	14.09	N	OFF	19.5
0.534750	42.88	---	56.00	13.12	N	OFF	19.5
0.627000	---	31.76	46.00	14.24	N	OFF	19.5
0.627000	44.17	---	56.00	11.83	N	OFF	19.5
0.879000	---	27.93	46.00	18.07	N	OFF	19.5
0.879000	37.77	---	56.00	18.23	N	OFF	19.5
1.088250	---	28.27	46.00	17.73	N	OFF	19.5
1.088250	37.58	---	56.00	18.42	N	OFF	19.5
1.257000	---	28.35	46.00	17.65	N	OFF	19.5
1.257000	38.32	---	56.00	17.68	N	OFF	19.5
2.395500	---	27.81	46.00	18.19	N	OFF	19.6
2.395500	38.15	---	56.00	17.85	N	OFF	19.6
26.000250	---	45.03	50.00	4.97	N	OFF	20.5
26.000250	48.46	---	60.00	11.54	N	OFF	20.5



### Appendix C. Radiated Spurious Emission

Test Engineer :	Jack Cheng, Lance Chiang and CR Liao	Temperature :	21.2~26.5°C
		Relative Humidity :	50.3~64.8%

<AC Adapter 1>

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11b CH 01 2412MHz		2384.34	55.6	-18.4	74	44.6	27.53	16.62	33.15	118	150	P	H	
		2387.7	44.82	-9.18	54	33.83	27.52	16.63	33.16	118	150	A	H	
	*	2412	104.83	-	-	93.88	27.48	16.65	33.18	118	150	P	H	
	*	2412	101.88	-	-	90.93	27.48	16.65	33.18	118	150	A	H	
													H	
														H
			2313.36	55.92	-18.08	74	44.63	27.82	16.54	33.07	395	245	P	V
			2387.28	45.21	-8.79	54	34.21	27.53	16.62	33.15	395	245	A	V
	*		2412	106.77	-	-	95.82	27.48	16.65	33.18	395	245	P	V
	*		2412	103.81	-	-	92.86	27.48	16.65	33.18	395	245	A	V
														V
														V
802.11b CH 06 2437MHz		2318.82	55.97	-18.03	74	44.71	27.79	16.54	33.07	143	149	P	H	
		2310.14	44.67	-9.33	54	33.36	27.84	16.53	33.06	143	149	A	H	
	*	2437	107.38	-	-	96.49	27.43	16.67	33.21	143	149	P	H	
	*	2437	104.34	-	-	93.45	27.43	16.67	33.21	143	149	A	H	
			2496.64	55.4	-18.6	74	44.66	27.31	16.72	33.29	143	149	P	H
			2485.93	44.59	-9.41	54	33.82	27.33	16.71	33.27	143	149	A	H
			2358.58	55.6	-18.4	74	44.55	27.58	16.59	33.12	386	244	P	V
			2311.12	44.66	-9.34	54	33.36	27.83	16.53	33.06	386	244	A	V
	*		2437	109.81	-	-	98.92	27.43	16.67	33.21	386	244	P	V
	*		2437	106.76	-	-	95.87	27.43	16.67	33.21	386	244	A	V
			2497.2	55.69	-18.31	74	44.95	27.31	16.72	33.29	386	244	P	V
			2485.86	44.64	-9.36	54	33.87	27.33	16.71	33.27	386	244	A	V



<b>802.11b</b> <b>CH 11</b> <b>2462MHz</b>	*	2462	106.63	-	-	95.8	27.38	16.69	33.24	113	149	P	H
	*	2462	103.68	-	-	92.85	27.38	16.69	33.24	113	149	A	H
		2494.28	56.24	-17.76	74	45.49	27.31	16.72	33.28	113	149	P	H
		2486.8	44.65	-9.35	54	33.88	27.33	16.71	33.27	113	149	A	H
													H
													H
	*	2462	108.04	-	-	97.21	27.38	16.69	33.24	380	244	P	V
	*	2462	105.09	-	-	94.26	27.38	16.69	33.24	380	244	A	V
		2497.88	55.53	-18.47	74	44.8	27.3	16.72	33.29	380	244	P	V
		2487.2	44.78	-9.22	54	34.01	27.33	16.71	33.27	380	244	A	V
													V
													V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11b CH 01 2412MHz		4824	49.72	-24.28	74	66.1	31.1	10.07	57.55	100	0	P	H	
													H	
													H	
													H	
			4824	52.85	-21.15	74	69.23	31.1	10.07	57.55	317	275	P	V
			4824	50.71	-3.29	54	67.09	31.1	10.07	57.55	317	275	A	V
														V
802.11b CH 06 2437MHz		4874	45.53	-28.47	74	61.8	31.1	10.08	57.45	100	0	P	H	
		7311	43.93	-30.07	74	52.12	36.58	12.5	57.27	100	0	P	H	
													H	
													H	
			4874	45.21	-28.79	74	61.48	31.1	10.08	57.45	100	0	P	V
			7311	44.95	-29.05	74	53.14	36.58	12.5	57.27	100	0	P	V
														V
802.11b CH 11 2462MHz		4924	51.87	-22.13	74	67.95	31.2	10.07	57.35	118	97	P	H	
		4924	50.18	-3.82	54	66.26	31.2	10.07	57.35	118	97	A	H	
		7386	43.38	-30.62	74	51.8	36.36	12.58	57.36	100	0	P	H	
													H	
			4924	49.15	-24.85	74	65.23	31.2	10.07	57.35	100	0	P	V
			7386	43.57	-30.43	74	51.99	36.36	12.58	57.36	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 802.11g (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11g CH 01 2412MHz		2389.59	58.36	-15.64	74	47.37	27.52	16.63	33.16	125	336	P	H	
		2390	47.55	-6.45	54	36.56	27.52	16.63	33.16	125	336	A	H	
	*	2412	103.43	-	-	92.48	27.48	16.65	33.18	125	336	P	H	
	*	2412	95.81	-	-	84.86	27.48	16.65	33.18	125	336	A	H	
													H	
														H
			2389.905	64.56	-9.44	74	53.57	27.52	16.63	33.16	395	243	P	V
			2390	50.19	-3.81	54	39.2	27.52	16.63	33.16	395	243	A	V
	*		2412	104.82	-	-	93.87	27.48	16.65	33.18	395	243	P	V
	*		2412	97.2	-	-	86.25	27.48	16.65	33.18	395	243	A	V
														V
														V
802.11g CH 06 2437MHz		2389.1	58.68	-15.32	74	47.69	27.52	16.63	33.16	112	149	P	H	
		2389.52	47.51	-6.49	54	36.52	27.52	16.63	33.16	112	149	A	H	
	*	2437	108.72	-	-	97.83	27.43	16.67	33.21	112	149	P	H	
	*	2437	101.08	-	-	90.19	27.43	16.67	33.21	112	149	A	H	
			2485.16	56.91	-17.09	74	46.14	27.33	16.71	33.27	112	149	P	H
			2485.37	46.07	-7.93	54	35.3	27.33	16.71	33.27	112	149	A	H
			2389.66	59.88	-14.12	74	48.89	27.52	16.63	33.16	386	242	P	V
			2389.94	47.41	-6.59	54	36.42	27.52	16.63	33.16	386	242	A	V
	*		2437	111.05	-	-	100.16	27.43	16.67	33.21	386	242	P	V
	*		2437	103.22	-	-	92.33	27.43	16.67	33.21	386	242	A	V
			2484.46	58.07	-15.93	74	47.3	27.33	16.71	33.27	386	242	P	V
			2484.53	46.1	-7.9	54	35.33	27.33	16.71	33.27	386	242	A	V



<b>802.11g</b>  <b>CH 11</b>  <b>2462MHz</b>	*	2462	105.7	-	-	94.87	27.38	16.69	33.24	112	304	P	H
	*	2462	98.2	-	-	87.37	27.38	16.69	33.24	112	304	A	H
		2483.52	62.83	-11.17	74	52.06	27.33	16.71	33.27	112	304	P	H
		2483.6	49.54	-4.46	54	38.77	27.33	16.71	33.27	112	304	A	H
													H
													H
	*	2462	106.84	-	-	96.01	27.38	16.69	33.24	376	236	P	V
	*	2462	99.17	-	-	88.34	27.38	16.69	33.24	376	236	A	V
		2483.72	66.62	-7.38	74	55.85	27.33	16.71	33.27	376	236	P	V
		2483.52	50.68	-3.32	54	39.91	27.33	16.71	33.27	376	236	A	V
													V
													V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11g CH 01 2412MHz		4824	38.63	-35.37	74	55.01	31.1	10.07	57.55	100	0	P	H	
													H	
													H	
													H	
			4824	42.41	-31.59	74	58.79	31.1	10.07	57.55	100	0	P	V
														V
														V
802.11g CH 06 2437MHz		4874	43.71	-30.29	74	59.98	31.1	10.08	57.45	100	0	P	H	
		7311	43.55	-30.45	74	51.74	36.58	12.5	57.27	100	0	P	H	
													H	
													H	
			4874	42.52	-31.48	74	58.79	31.1	10.08	57.45	100	0	P	V
			7311	43.67	-30.33	74	51.86	36.58	12.5	57.27	100	0	P	V
														V
802.11g CH 11 2462MHz		4924	39.42	-34.58	74	55.5	31.2	10.07	57.35	100	0	P	H	
		7386	43.15	-30.85	74	51.57	36.36	12.58	57.36	100	0	P	H	
													H	
													H	
			4924	42.77	-31.23	74	58.85	31.2	10.07	57.35	100	0	P	V
			7386	43.1	-30.9	74	51.52	36.36	12.58	57.36	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 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11n HT20 CH 01 2412MHz		2390	63.9	-10.1	74	52.91	27.52	16.63	33.16	172	338	P	H	
		2390	49.46	-4.54	54	38.47	27.52	16.63	33.16	172	338	A	H	
	*	2412	102.43	-	-	91.48	27.48	16.65	33.18	172	338	P	H	
	*	2412	94.95	-	-	84	27.48	16.65	33.18	172	338	A	H	
													H	
														H
			2389.905	64.61	-9.39	74	53.62	27.52	16.63	33.16	400	242	P	V
			2390	50.27	-3.73	54	39.28	27.52	16.63	33.16	400	242	A	V
		*	2412	103.95	-	-	93	27.48	16.65	33.18	400	242	P	V
		*	2412	96.35	-	-	85.4	27.48	16.65	33.18	400	242	A	V
													V	
													V	
802.11n HT20 CH 06 2437MHz		2389.38	59.11	-14.89	74	48.12	27.52	16.63	33.16	114	150	P	H	
		2389.8	47.61	-6.39	54	36.62	27.52	16.63	33.16	114	150	A	H	
	*	2437	108.29	-	-	97.4	27.43	16.67	33.21	114	150	P	H	
	*	2437	100.88	-	-	89.99	27.43	16.67	33.21	114	150	A	H	
			2485.37	58.78	-15.22	74	48.01	27.33	16.71	33.27	114	150	P	H
			2485.72	45.91	-8.09	54	35.14	27.33	16.71	33.27	114	150	A	H
			2389.52	60.57	-13.43	74	49.58	27.52	16.63	33.16	386	244	P	V
			2389.8	47.8	-6.2	54	36.81	27.52	16.63	33.16	386	244	A	V
		*	2437	110.98	-	-	100.09	27.43	16.67	33.21	386	244	P	V
		*	2437	102.92	-	-	92.03	27.43	16.67	33.21	386	244	A	V
		2484.11	57.11	-16.89	74	46.34	27.33	16.71	33.27	386	244	P	V	
		2484.11	46.29	-7.71	54	35.52	27.33	16.71	33.27	386	244	A	V	



<b>802.11n</b> <b>HT20</b> <b>CH 11</b> <b>2462MHz</b>	*	2462	103.77	-	-	92.94	27.38	16.69	33.24	143	339	P	H
	*	2462	96.34	-	-	85.51	27.38	16.69	33.24	143	339	A	H
		2483.72	63.5	-10.5	74	52.73	27.33	16.71	33.27	143	339	P	H
		2483.56	48.76	-5.24	54	37.99	27.33	16.71	33.27	143	339	A	H
													H
													H
	*	2462	105.48	-	-	94.65	27.38	16.69	33.24	376	235	P	V
	*	2462	98.16	-	-	87.33	27.38	16.69	33.24	376	235	A	V
		2483.52	66.04	-7.96	74	55.27	27.33	16.71	33.27	376	235	P	V
		2483.6	50.66	-3.34	54	39.89	27.33	16.71	33.27	376	235	A	V
													V
												V	
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11n HT20 CH 01 2412MHz		4824	38.66	-35.34	74	55.04	31.1	10.07	57.55	100	0	P	H	
													H	
													H	
													H	
			4824	40.52	-33.48	74	56.9	31.1	10.07	57.55	100	0	P	V
														V
														V
802.11n HT20 CH 06 2437MHz		4874	43.81	-30.19	74	60.08	31.1	10.08	57.45	100	0	P	H	
													H	
			7311	45.01	-28.99	74	53.2	36.58	12.5	57.27	100	0	P	H
														H
			4874	45.5	-28.5	74	61.77	31.1	10.08	57.45	100	0	P	V
			7311	43.8	-30.2	74	51.99	36.58	12.5	57.27	100	0	P	V
														V
802.11n HT20 CH 11 2462MHz		4924	39.28	-34.72	74	55.36	31.2	10.07	57.35	100	0	P	H	
													H	
			7386	43	-31	74	51.42	36.36	12.58	57.36	100	0	P	H
														H
			4924	38.62	-35.38	74	54.7	31.2	10.07	57.35	100	0	P	V
			7386	43.98	-30.02	74	52.4	36.36	12.58	57.36	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 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11n HT40 CH 03 2422MHz		2389.94	63.79	-10.21	74	52.8	27.52	16.63	33.16	155	307	P	H
		2389.94	50.7	-3.3	54	39.71	27.52	16.63	33.16	155	307	A	H
	*	2422	104.06	-	-	93.14	27.46	16.66	33.2	155	307	P	H
	*	2422	96.27	-	-	85.35	27.46	16.66	33.2	155	307	A	H
		2485.23	59.61	-14.39	74	48.84	27.33	16.71	33.27	155	307	P	H
		2484.04	46.66	-7.34	54	35.89	27.33	16.71	33.27	155	307	A	H
		2389.24	64.58	-9.42	74	53.59	27.52	16.63	33.16	385	245	P	V
		2389.94	50.72	-3.28	54	39.73	27.52	16.63	33.16	385	245	A	V
	*	2422	105.58	-	-	94.66	27.46	16.66	33.2	385	245	P	V
	*	2422	98.13	-	-	87.21	27.46	16.66	33.2	385	245	A	V
		2484.39	60.21	-13.79	74	49.44	27.33	16.71	33.27	385	245	P	V
		2484.11	46.65	-7.35	54	35.88	27.33	16.71	33.27	385	245	A	V
802.11n HT40 CH 06 2437MHz		2389.52	61.03	-12.97	74	50.04	27.52	16.63	33.16	157	302	P	H
		2389.94	50.03	-3.97	54	39.04	27.52	16.63	33.16	157	302	A	H
	*	2437	103.66	-	-	92.77	27.43	16.67	33.21	157	302	P	H
	*	2437	96.2	-	-	85.31	27.43	16.67	33.21	157	302	A	H
		2485.37	56.48	-17.52	74	45.71	27.33	16.71	33.27	157	302	P	H
		2483.9	46.68	-7.32	54	35.91	27.33	16.71	33.27	157	302	A	H
		2389.66	62.75	-11.25	74	51.76	27.52	16.63	33.16	385	249	P	V
		2388.68	48.89	-5.11	54	37.9	27.52	16.63	33.16	385	249	A	V
	*	2437	104.23	-	-	93.34	27.43	16.67	33.21	385	249	P	V
	*	2437	96.76	-	-	85.87	27.43	16.67	33.21	385	249	A	V
		2486	56.32	-17.68	74	45.55	27.33	16.71	33.27	385	249	P	V
		2485.16	46.39	-7.61	54	35.62	27.33	16.71	33.27	385	249	A	V



<b>802.11n</b>  <b>HT40</b>  <b>CH 09</b>  <b>2452MHz</b>		2389.52	55.62	-18.38	74	44.63	27.52	16.63	33.16	154	304	P	H
		2358.3	45.83	-8.17	54	34.78	27.58	16.59	33.12	154	304	A	H
	*	2452	101.67	-	-	90.82	27.4	16.68	33.23	154	304	P	H
	*	2452	94.11	-	-	83.26	27.4	16.68	33.23	154	304	A	H
		2485.79	64.32	-9.68	74	53.55	27.33	16.71	33.27	154	304	P	H
		2486.14	50.43	-3.57	54	39.66	27.33	16.71	33.27	154	304	A	H
		2313.22	55.23	-18.77	74	43.94	27.82	16.54	33.07	385	249	P	V
		2313.08	46.19	-7.81	54	34.9	27.82	16.54	33.07	385	249	A	V
	*	2452	102.18	-	-	91.33	27.4	16.68	33.23	385	249	P	V
	*	2452	94.92	-	-	84.07	27.4	16.68	33.23	385	249	A	V
		2486.21	64.08	-9.92	74	53.31	27.33	16.71	33.27	385	249	P	V
		2486.07	49.36	-4.64	54	38.59	27.33	16.71	33.27	385	249	A	V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11n HT40 CH 03 2422MHz		4844	38.6	-35.4	74	54.94	31.1	10.07	57.51	100	0	P	H
		7266	43.01	-30.99	74	51.18	36.6	12.45	57.22	100	0	P	H
													H
													H
		4844	39.45	-34.55	74	55.79	31.1	10.07	57.51	100	0	P	V
		7266	43.52	-30.48	74	51.69	36.6	12.45	57.22	100	0	P	V
802.11n HT40 CH 06 2437MHz		4874	37.65	-36.35	74	53.92	31.1	10.08	57.45	100	0	P	H
		7311	44.88	-29.12	74	53.07	36.58	12.5	57.27	100	0	P	H
													H
													H
		4874	37.63	-36.37	74	53.9	31.1	10.08	57.45	100	0	P	V
		7311	43.99	-30.01	74	52.18	36.58	12.5	57.27	100	0	P	V
802.11n HT40 CH 09 2452MHz		4904	37.34	-36.66	74	53.54	31.12	10.07	57.39	100	0	P	H
		7356	43.08	-30.92	74	51.38	36.48	12.55	57.33	100	0	P	H
													H
													H
		4904	37.1	-36.9	74	53.3	31.12	10.07	57.39	100	0	P	V
		7356	43.18	-30.82	74	51.48	36.48	12.55	57.33	100	0	P	V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



<AC Adapter 2>

Emission below 1GHz

2.4GHz WIFI 802.11n HT40 (LF)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.	
1		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )	
2.4GHz 802.11n HT40 LF		30.97	23.8	-16.2	40	29.41	23.74	0.85	30.2	-	-	P	H	
		216.24	31.56	-14.44	46	44.69	15.13	2.03	30.29	-	-	P	H	
		223.03	34.71	-11.29	46	47.5	15.45	2.04	30.28	-	-	P	H	
		301.6	34.59	-11.41	46	43.14	19.15	2.44	30.14	-	-	P	H	
		885.54	35.88	-10.12	46	31.5	29.08	4.46	29.16	100	0	P	H	
		969.93	37.04	-16.96	54	30.45	30.79	4.74	28.94	-	-	P	H	
														H
														H
														H
														H
														H
														H
			30	32.15	-7.85	40	37.32	24.17	0.84	30.18	100	0	P	V
			214.3	26.64	-16.86	43.5	39.78	15.12	2.03	30.29	-	-	P	V
			229.82	27.18	-18.82	46	39.28	16.12	2.05	30.27	-	-	P	V
			718.7	34.29	-11.71	46	32.76	27.07	3.94	29.48	-	-	P	V
			875.84	35.2	-10.8	46	30.79	29.15	4.44	29.18	-	-	P	V
			966.05	37.15	-16.85	54	30.57	30.82	4.71	28.95	-	-	P	V
													V	
													V	
													V	
													V	
													V	
													V	
Remark	1. No other spurious found. 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	Path	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		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H
2412MHz													

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) =  
Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

**For Peak Limit @ 2390MHz:**

1. Level(dBμV/m)  
= Antenna Factor(dB/m) + Path 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) + Path 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 D. Radiated Spurious Emission Plots

<b>Test Engineer :</b>	Jack Cheng, Lance Chiang and CR Liao	<b>Temperature :</b>	21.2~26.5°C
		<b>Relative Humidity :</b>	50.3~64.8%

### Note symbol

-L	Low channel location
-R	High channel location



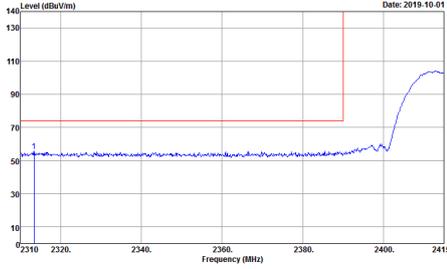
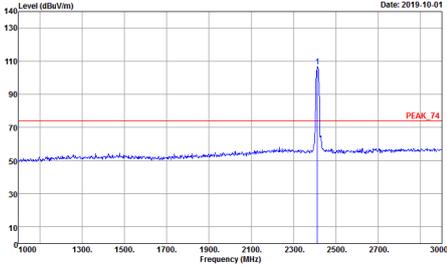
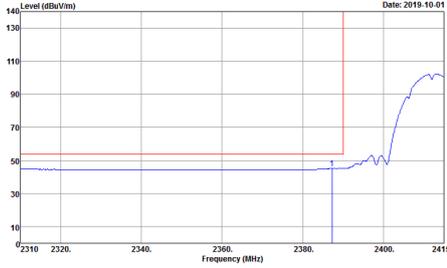
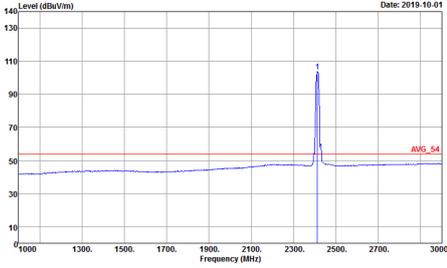
<AC Adapter 1>

2.4GHz 2400~2483.5MHz

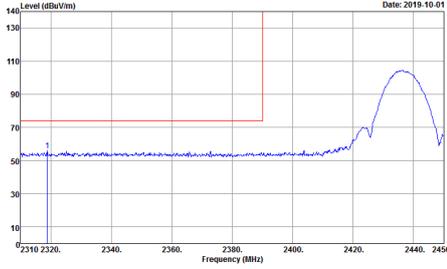
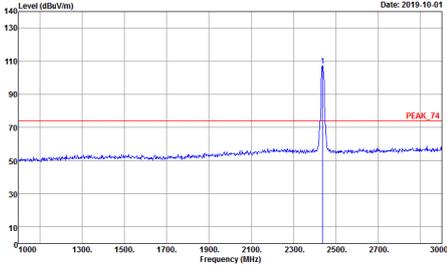
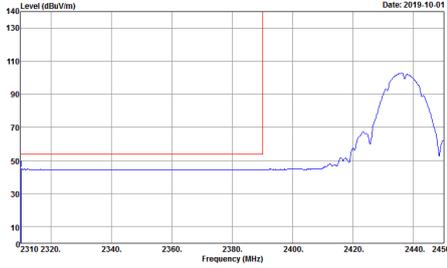
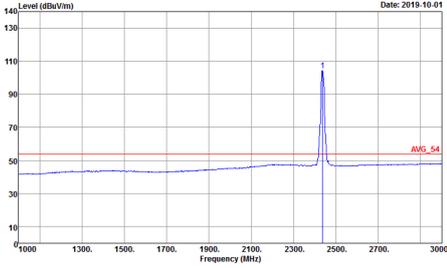
WIFI 802.11b (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH12-HY            Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 18</p>	<p>Site : 03CH12-HY            Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 18</p>
Avg.	<p>Site : 03CH12-HY            Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL            RBW:1000.000KHz VBW:0.010KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 18</p>	<p>Site : 03CH12-HY            Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL            RBW:1000.000KHz VBW:0.010KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 18</p>

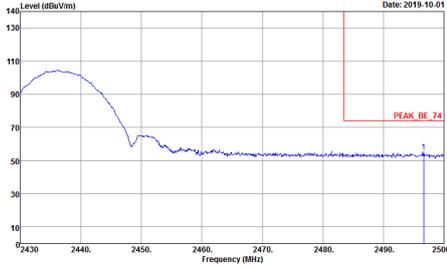
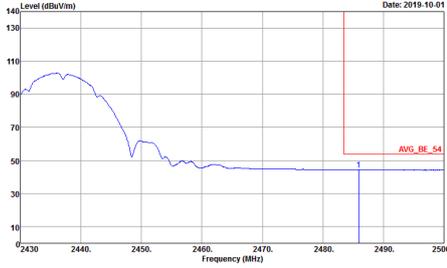


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Date: 2019-10-01</p> <p>Site : 03CH12-HY            Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 18</p>	 <p>Date: 2019-10-01</p> <p>Site : 03CH12-HY            Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 18</p>
<p><b>Avg.</b></p>	 <p>Date: 2019-10-01</p> <p>Site : 03CH12-HY            Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL            : RBW:1000.000KHz VBW:0.010KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 18</p>	 <p>Date: 2019-10-01</p> <p>Site : 03CH12-HY            Condition : AVG_54 3m HORN_9120D_1328 VERTICAL            : RBW:1000.000KHz VBW:0.010KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 18</p>

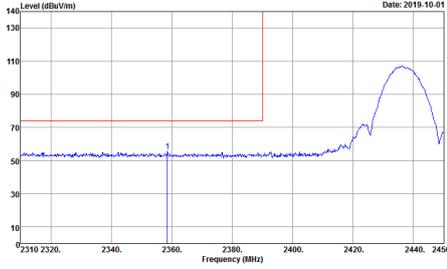
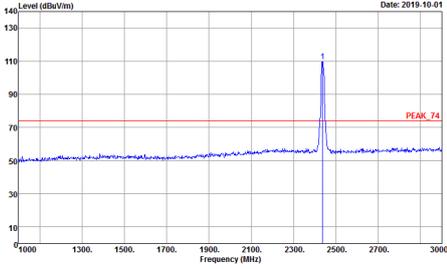
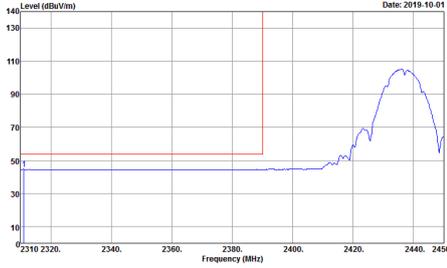
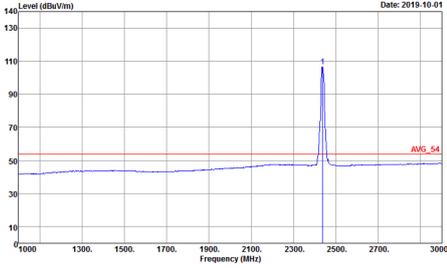


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Date: 2019-10-01</p> <p>Site : 03CH12-HY            Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 21</p>	 <p>Date: 2019-10-01</p> <p>Site : 03CH12-HY            Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 21</p>
Avg.	 <p>Date: 2019-10-01</p> <p>Site : 03CH12-HY            Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL            : RBW:1000.000KHz VBW:0.010KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 21</p>	 <p>Date: 2019-10-01</p> <p>Site : 03CH12-HY            Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL            : RBW:1000.000KHz VBW:0.010KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 21</p>

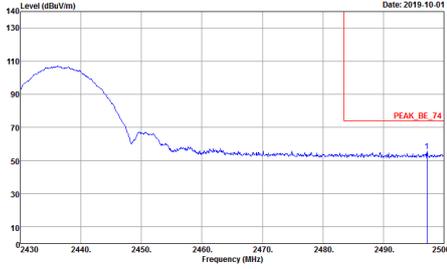
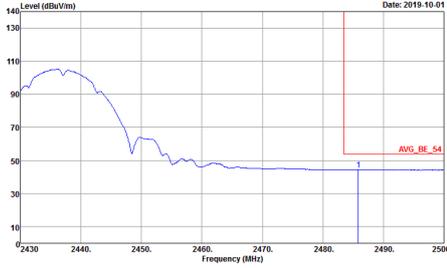


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH12-HY            Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 21</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH12-HY            Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL            RBW:1000.000KHz VBW:0.010KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 21</p>	<p>Left blank</p>

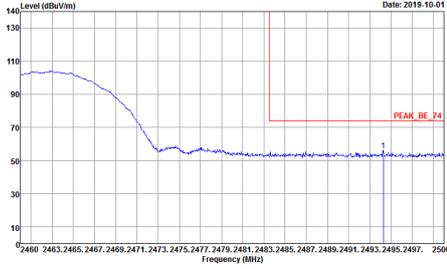
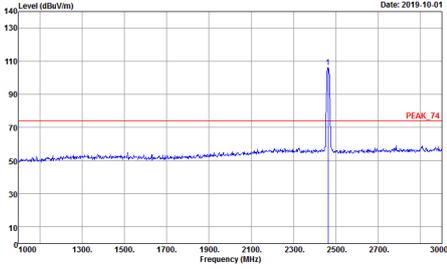
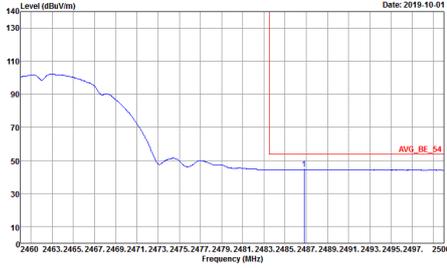
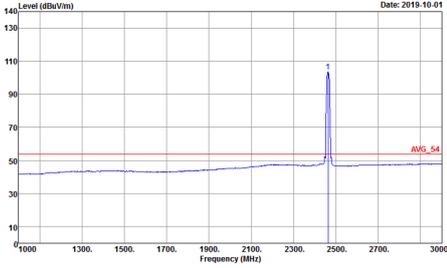


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 <p>Date: 2019-10-01</p> <p>Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 982030 Setting : 21</p>	 <p>Date: 2019-10-01</p> <p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 982030 Setting : 21</p>
Avg.	 <p>Date: 2019-10-01</p> <p>Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 982030 Setting : 21</p>	 <p>Date: 2019-10-01</p> <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 982030 Setting : 21</p>

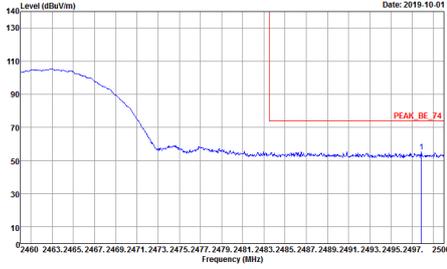
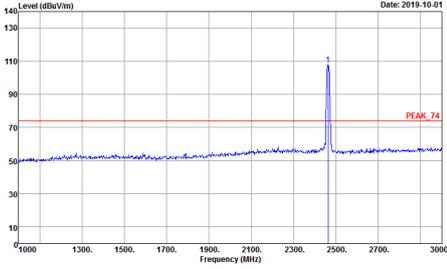
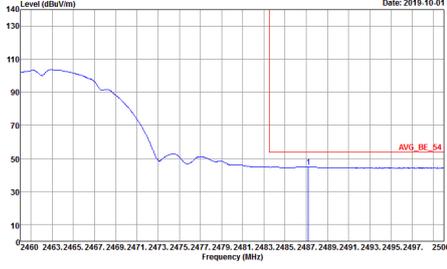
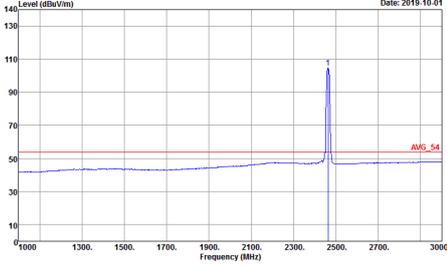


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>           Date: 2019-10-01            Site : 03CH12-HY            Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 21         </p>	<p>Left blank</p>
<p><b>Avg.</b></p>	 <p>           Date: 2019-10-01            Site : 03CH12-HY            Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL            RBW:1000.000KHz VBW:0.010KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 21         </p>	<p>Left blank</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Level (dBuV/m) vs Frequency (MHz) plot showing a peak at 2462 MHz. The y-axis ranges from 10 to 140 dBuV/m, and the x-axis ranges from 2460 to 2500 MHz. A red line indicates the peak level at approximately 75 dBuV/m.</p> <p>Site : 03CH12-HY            Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL            Detector : Peak            Project : 982030            Setting : 18.5</p>	 <p>Level (dBuV/m) vs Frequency (MHz) plot showing a sharp peak at 2462 MHz. The y-axis ranges from 10 to 140 dBuV/m, and the x-axis ranges from 2400 to 3000 MHz. A red line indicates the peak level at approximately 110 dBuV/m.</p> <p>Site : 03CH12-HY            Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL            Detector : Peak            Project : 982030            Setting : 18.5</p>
<p><b>Avg.</b></p>	 <p>Level (dBuV/m) vs Frequency (MHz) plot showing the average level across the band. The y-axis ranges from 10 to 140 dBuV/m, and the x-axis ranges from 2460 to 2500 MHz. A red line indicates the average level at approximately 50 dBuV/m.</p> <p>Site : 03CH12-HY            Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL            Detector : Peak            Project : 982030            Setting : 18.5</p>	 <p>Level (dBuV/m) vs Frequency (MHz) plot showing the average level across the band. The y-axis ranges from 10 to 140 dBuV/m, and the x-axis ranges from 2400 to 3000 MHz. A red line indicates the average level at approximately 50 dBuV/m.</p> <p>Site : 03CH12-HY            Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL            Detector : Peak            Project : 982030            Setting : 18.5</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	<p style="text-align: center;"><b>Vertical</b></p>  <p>Site : 03CH12-HY            Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 18.5</p>	<p style="text-align: center;"><b>Fundamental</b></p>  <p>Site : 03CH12-HY            Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 18.5</p>
Avg.	 <p>Site : 03CH12-HY            Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL            RBW:1000.000KHz VBW:0.010KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 18.5</p>	 <p>Site : 03CH12-HY            Condition : AVG_54 3m HORN_9120D_1328 VERTICAL            RBW:1000.000KHz VBW:0.010KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 18.5</p>

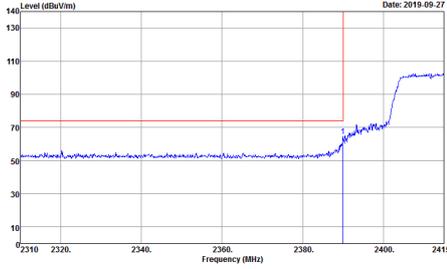
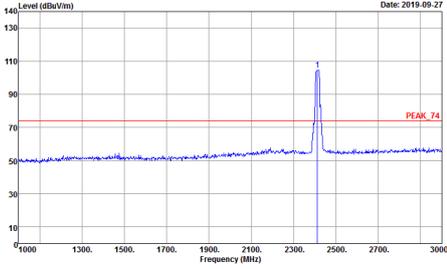
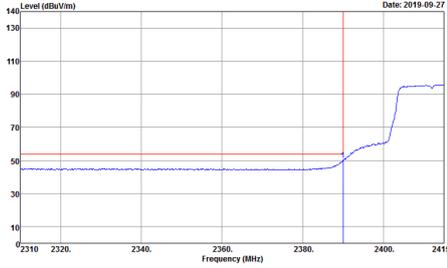
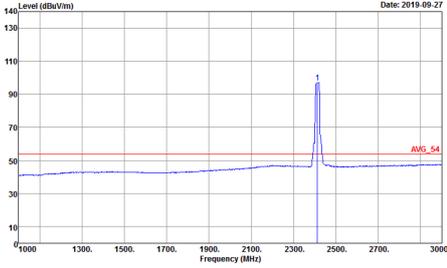


2.4GHz 2400~2483.5MHz

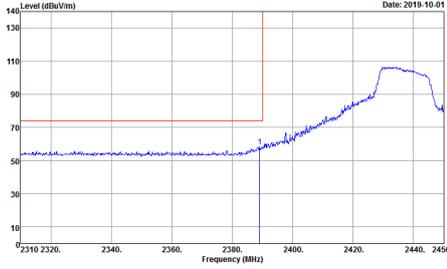
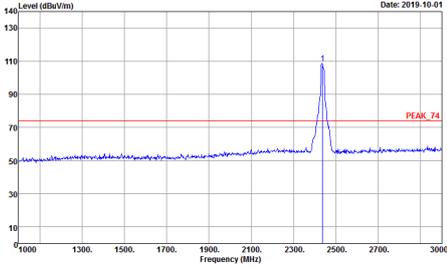
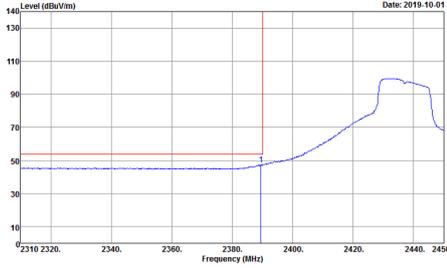
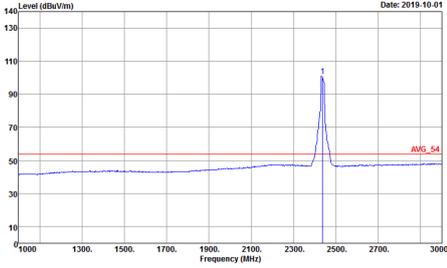
WIFI 802.11g (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Fundamental
Peak	<p>           Site : 03CH12-HY            Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 16         </p>	<p>           Site : 03CH12-HY            Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 16         </p>
Avg.	<p>           Site : 03CH12-HY            Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL            : RBW:1000.000KHz VBW:1.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 16         </p>	<p>           Site : 03CH12-HY            Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL            : RBW:1000.000KHz VBW:1.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 16         </p>

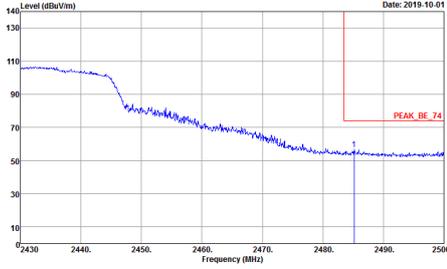
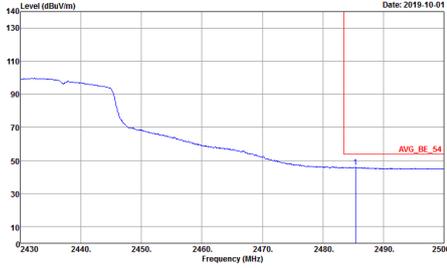


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Vertical	Fundamental
Peak	 <p>Date: 2019-09-27</p> <p>Site : 03CH12-HY  Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL  : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto  Detector : Peak  Project : 982030  Setting : 16</p>	 <p>Date: 2019-09-27</p> <p>Site : 03CH12-HY  Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL  : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto  Detector : Peak  Project : 982030  Setting : 16</p>
Avg.	 <p>Date: 2019-09-27</p> <p>Site : 03CH12-HY  Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL  : RBW:1000.000KHz VBW:1.000KHz SWT:Auto  Detector : Peak  Project : 982030  Setting : 16</p>	 <p>Date: 2019-09-27</p> <p>Site : 03CH12-HY  Condition : AVG_54 3m HORN_9120D_1328 VERTICAL  : RBW:1000.000KHz VBW:1.000KHz SWT:Auto  Detector : Peak  Project : 982030  Setting : 16</p>

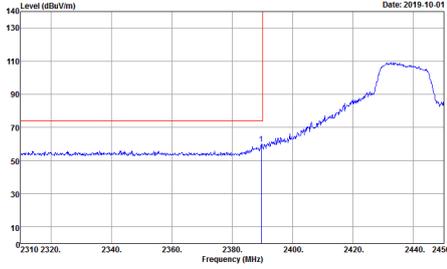
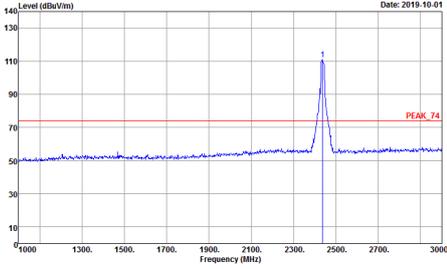
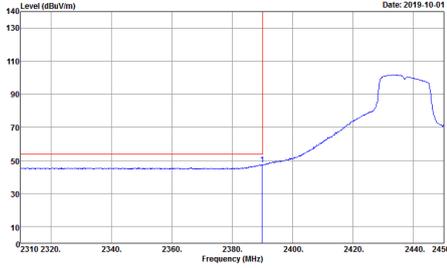
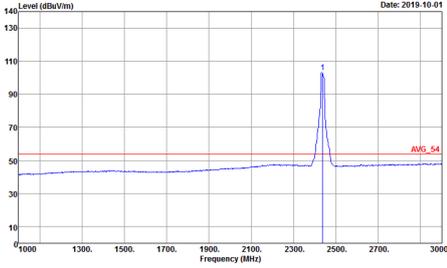


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Level (dBuV/m) vs Frequency (MHz) plot showing a rising signal starting around 2380 MHz. A red vertical line is at 2380 MHz. Date: 2019-10-01</p> <p>Site : 03CH12-HY            Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 20.5</p>	 <p>Level (dBuV/m) vs Frequency (MHz) plot showing a sharp peak at approximately 2437 MHz. A red horizontal line is at 75 dBuV/m labeled PEAK_74. Date: 2019-10-01</p> <p>Site : 03CH12-HY            Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 20.5</p>
Avg.	 <p>Level (dBuV/m) vs Frequency (MHz) plot showing a rising signal starting around 2380 MHz. A red vertical line is at 2380 MHz. Date: 2019-10-01</p> <p>Site : 03CH12-HY            Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL            : RBW:1000.000KHz VBW:1.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 20.5</p>	 <p>Level (dBuV/m) vs Frequency (MHz) plot showing a sharp peak at approximately 2437 MHz. A red horizontal line is at 55 dBuV/m labeled AVG_54. Date: 2019-10-01</p> <p>Site : 03CH12-HY            Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL            : RBW:1000.000KHz VBW:1.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 20.5</p>

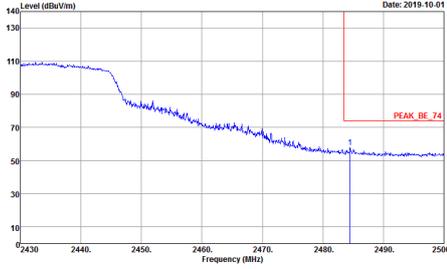
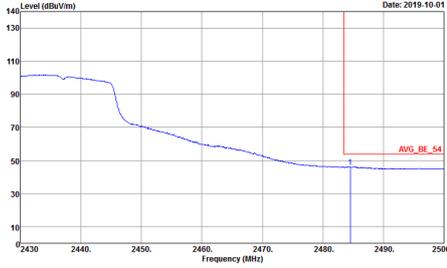


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 982030 Setting : 20.5</p>	Left blank
Avg.	 <p>Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 982030 Setting : 20.5</p>	Left blank

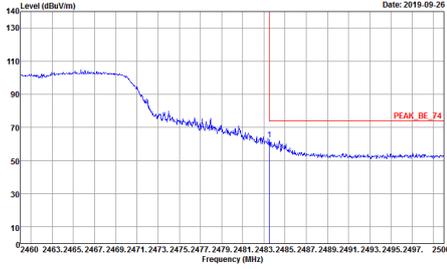
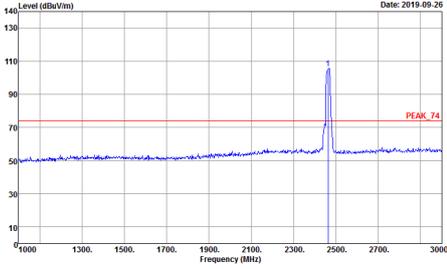
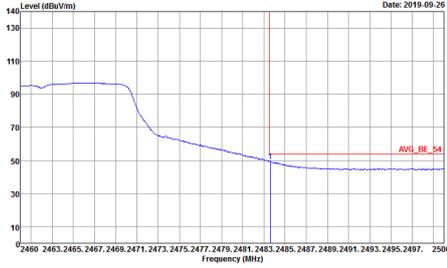
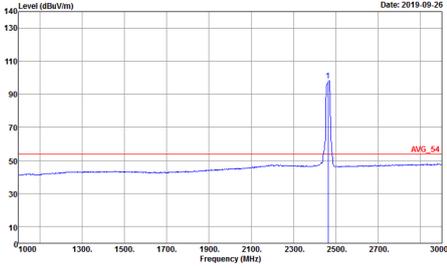


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 <p>Date: 2019-10-01</p> <p>Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> <p>Detector : Peak Project : 982030 Setting : 20.5</p>	 <p>Date: 2019-10-01</p> <p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> <p>Detector : Peak Project : 982030 Setting : 20.5</p>
Avg.	 <p>Date: 2019-10-01</p> <p>Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p> <p>Detector : Peak Project : 982030 Setting : 20.5</p>	 <p>Date: 2019-10-01</p> <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p> <p>Detector : Peak Project : 982030 Setting : 20.5</p>

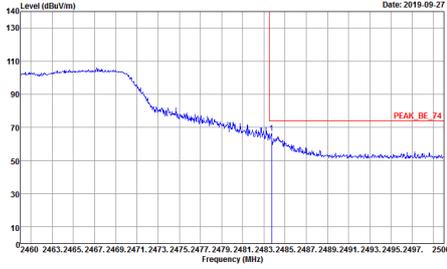
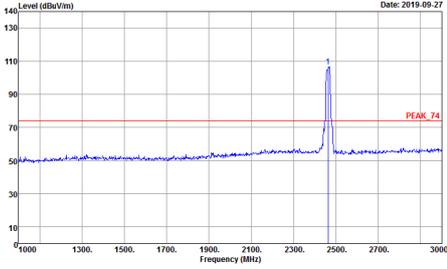
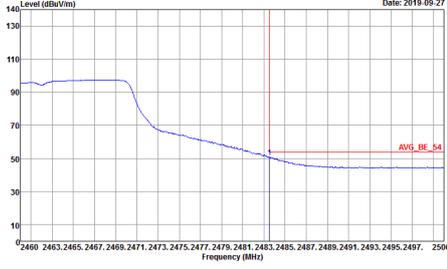
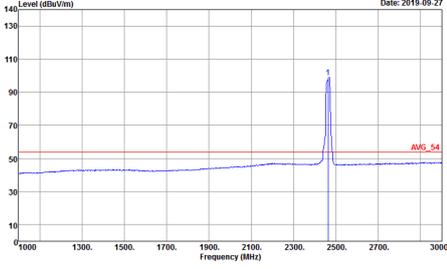


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 982030 Setting : 20.5</p>	Left Blank
Avg.	 <p>Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 982030 Setting : 20.5</p>	Left Blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH12-HY            Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 17</p>	 <p>Site : 03CH12-HY            Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 17</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH12-HY            Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL            : RBW:1000.000KHz VBW:1.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 17</p>	 <p>Site : 03CH12-HY            Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL            : RBW:1000.000KHz VBW:1.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 17</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	<p style="text-align: center;"><b>Vertical</b></p>  <p>Site : 03CH12-HY            Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 17</p>	<p style="text-align: center;"><b>Fundamental</b></p>  <p>Site : 03CH12-HY            Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 17</p>
Peak	 <p>Site : 03CH12-HY            Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL            RBW:1000.000KHz VBW:1.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 17</p>	 <p>Site : 03CH12-HY            Condition : AVG_54 3m HORN_9120D_1328 VERTICAL            RBW:1000.000KHz VBW:1.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 17</p>
Avg.		

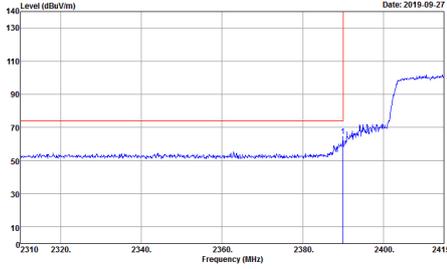
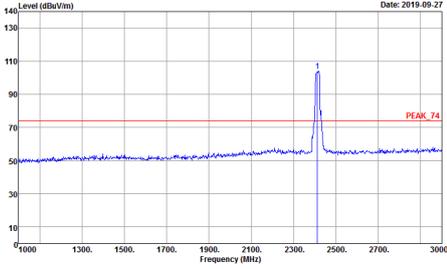
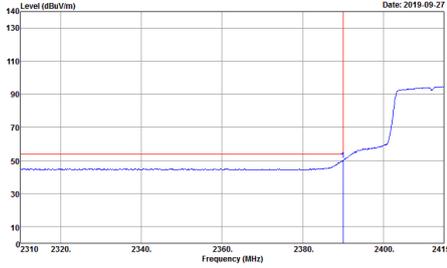
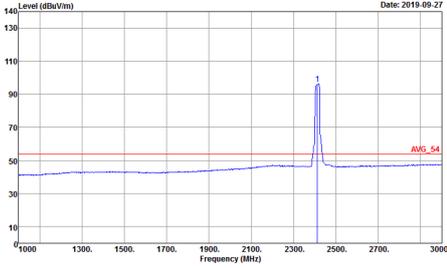


2.4GHz 2400~2483.5MHz

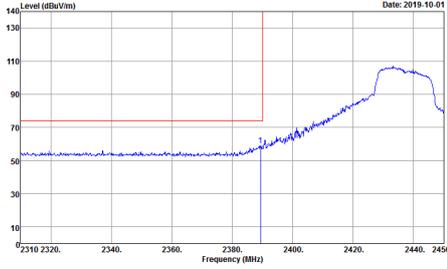
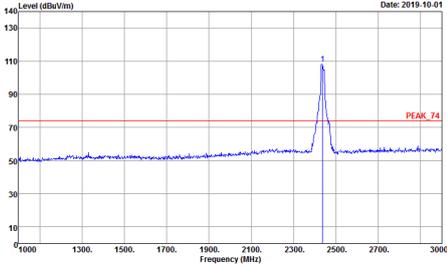
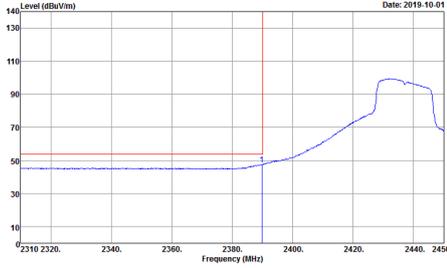
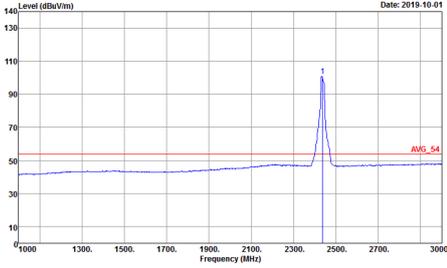
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Horizontal	Fundamental
Peak	<p>Date: 2019-09-27</p> <p>Site : 03CH12-HY            Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 16</p>	<p>Date: 2019-09-27</p> <p>Site : 03CH12-HY            Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 16</p>
Avg.	<p>Date: 2019-09-27</p> <p>Site : 03CH12-HY            Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL            : RBW:1000.000KHz VBW:1.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 16</p>	<p>Date: 2019-09-27</p> <p>Site : 03CH12-HY            Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL            : RBW:1000.000KHz VBW:1.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 16</p>

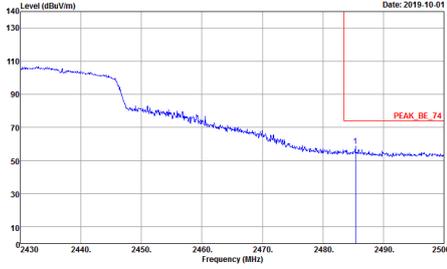
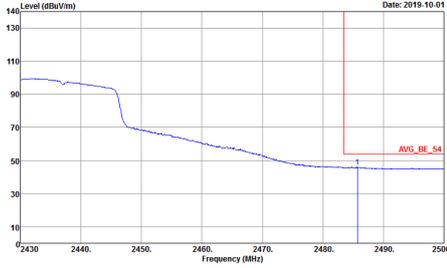


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Date: 2019-09-27</p> <p>Site : 03CH12-HY            Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 16</p>	 <p>Date: 2019-09-27</p> <p>Site : 03CH12-HY            Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 16</p>
<p><b>Avg.</b></p>	 <p>Date: 2019-09-27</p> <p>Site : 03CH12-HY            Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL            RBW:1000.000KHz VBW:1.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 16</p>	 <p>Date: 2019-09-27</p> <p>Site : 03CH12-HY            Condition : AVG_54 3m HORN_9120D_1328 VERTICAL            RBW:1000.000KHz VBW:1.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 16</p>

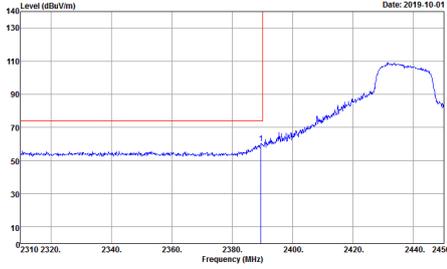
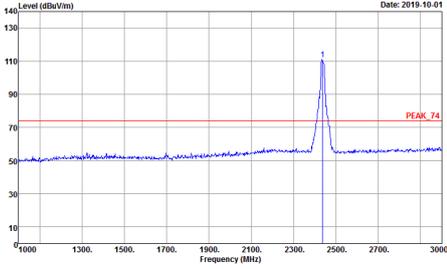
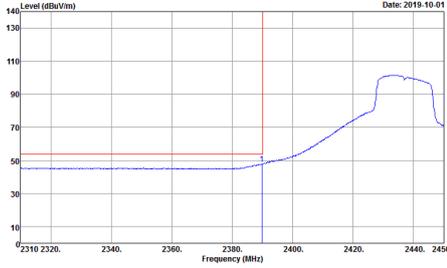
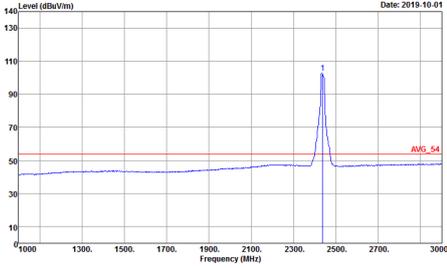


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Date: 2019-10-01</p> <p>Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 982030 Setting : 20.5</p>	 <p>Date: 2019-10-01</p> <p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 982030 Setting : 20.5</p>
Avg.	 <p>Date: 2019-10-01</p> <p>Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 982030 Setting : 20.5</p>	 <p>Date: 2019-10-01</p> <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 982030 Setting : 20.5</p>

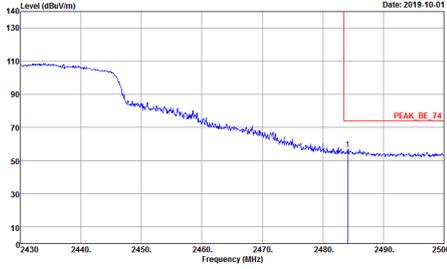
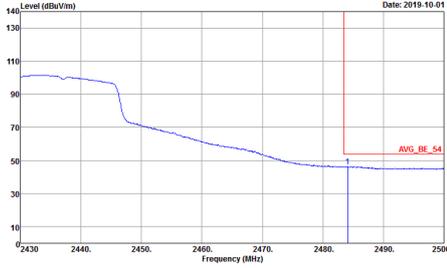


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Date: 2019-10-01</p> <p>Site : 03CH12-HY            Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 20.5</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	 <p>Date: 2019-10-01</p> <p>Site : 03CH12-HY            Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL            RBW:1000.000KHz VBW:1.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 20.5</p>	<p>Left blank</p>

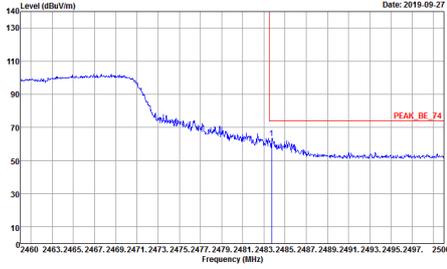
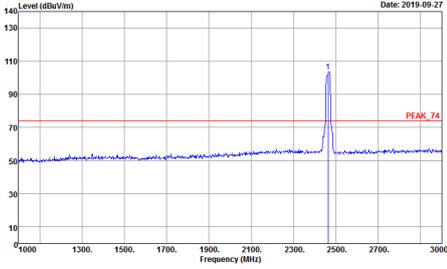
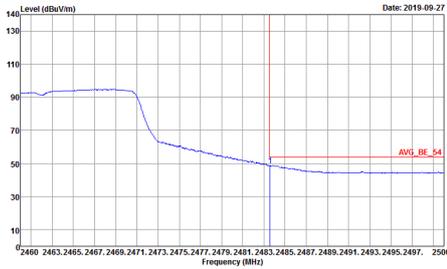
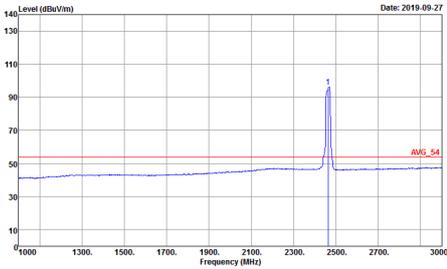


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 <p>Level (dBuV/m) vs Frequency (MHz) plot showing a peak at approximately 2437 MHz. The y-axis ranges from 10 to 140 dBuV/m, and the x-axis ranges from 2310 to 2450 MHz. A red vertical line marks the peak frequency.</p> <p>Date: 2019-10-01</p> <p>Site : 03CH12-HY            Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 20.5</p>	 <p>Level (dBuV/m) vs Frequency (MHz) plot showing a sharp peak at approximately 2437 MHz. The y-axis ranges from 10 to 140 dBuV/m, and the x-axis ranges from 1000 to 3000 MHz. A red horizontal line indicates the peak level, labeled 'PEAK_74'.</p> <p>Date: 2019-10-01</p> <p>Site : 03CH12-HY            Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 20.5</p>
Avg.	 <p>Level (dBuV/m) vs Frequency (MHz) plot showing the average spectrum. The y-axis ranges from 10 to 140 dBuV/m, and the x-axis ranges from 2310 to 2450 MHz. A red vertical line marks the peak frequency.</p> <p>Date: 2019-10-01</p> <p>Site : 03CH12-HY            Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL            : RBW:1000.000KHz VBW:1.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 20.5</p>	 <p>Level (dBuV/m) vs Frequency (MHz) plot showing the average spectrum. The y-axis ranges from 10 to 140 dBuV/m, and the x-axis ranges from 1000 to 3000 MHz. A red horizontal line indicates the average level, labeled 'AVG_54'.</p> <p>Date: 2019-10-01</p> <p>Site : 03CH12-HY            Condition : AVG_54 3m HORN_9120D_1328 VERTICAL            : RBW:1000.000KHz VBW:1.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 20.5</p>

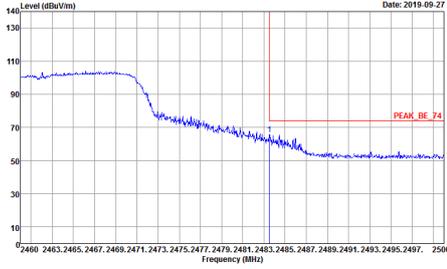
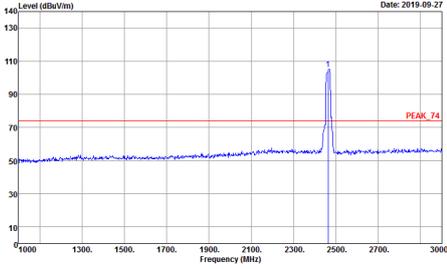
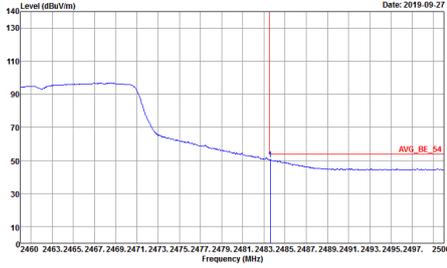
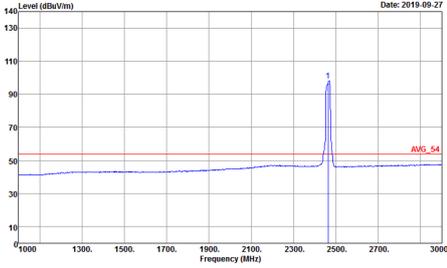


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Date: 2019-10-01</p> <p>Site : 03CH12-HY            Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 20.5</p>	<p>Left Blank</p>
<p><b>Avg.</b></p>	 <p>Date: 2019-10-01</p> <p>Site : 03CH12-HY            Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL            RBW:1000.000KHz VBW:1.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 20.5</p>	<p>Left Blank</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH12-HY            Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 16</p>	 <p>Site : 03CH12-HY            Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 16</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH12-HY            Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL            : RBW:1000.000KHz VBW:1.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 16</p>	 <p>Site : 03CH12-HY            Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL            : RBW:1000.000KHz VBW:1.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 16</p>



WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Level (dBuV/m) vs Frequency (MHz) plot showing a peak at 2462 MHz. The y-axis ranges from 10 to 140 dBuV/m, and the x-axis ranges from 2460 to 2500 MHz. A red horizontal line indicates the peak level at approximately 75 dBuV/m, labeled 'PEAK_BE_74'.</p> <p>Site : 03CH12-HY            Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 16</p>	 <p>Level (dBuV/m) vs Frequency (MHz) plot showing a peak at 2462 MHz. The y-axis ranges from 10 to 140 dBuV/m, and the x-axis ranges from 2400 to 3000 MHz. A red horizontal line indicates the peak level at approximately 75 dBuV/m, labeled 'PEAK_74'.</p> <p>Site : 03CH12-HY            Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 16</p>
<p><b>Avg.</b></p>	 <p>Level (dBuV/m) vs Frequency (MHz) plot showing an average level at 2462 MHz. The y-axis ranges from 10 to 140 dBuV/m, and the x-axis ranges from 2460 to 2500 MHz. A red horizontal line indicates the average level at approximately 55 dBuV/m, labeled 'AVG_BE_54'.</p> <p>Site : 03CH12-HY            Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL            RBW:1000.000KHz VBW:1.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 16</p>	 <p>Level (dBuV/m) vs Frequency (MHz) plot showing an average level at 2462 MHz. The y-axis ranges from 10 to 140 dBuV/m, and the x-axis ranges from 2400 to 3000 MHz. A red horizontal line indicates the average level at approximately 55 dBuV/m, labeled 'AVG_54'.</p> <p>Site : 03CH12-HY            Condition : AVG_54 3m HORN_9120D_1328 VERTICAL            RBW:1000.000KHz VBW:1.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 16</p>

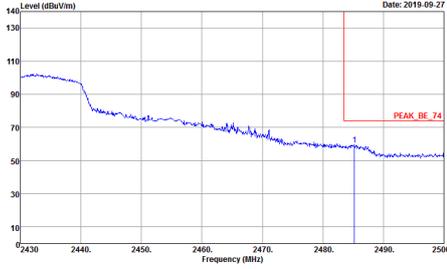
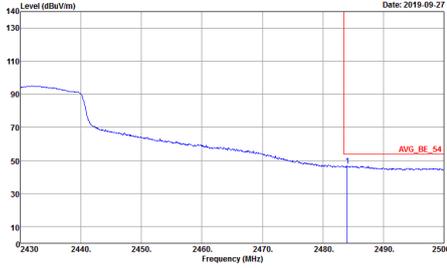


2.4GHz 2400~2483.5MHz

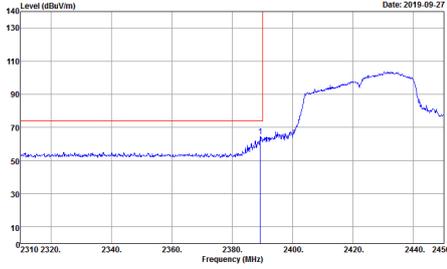
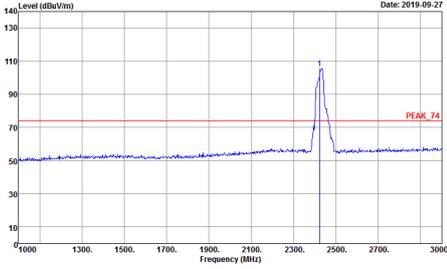
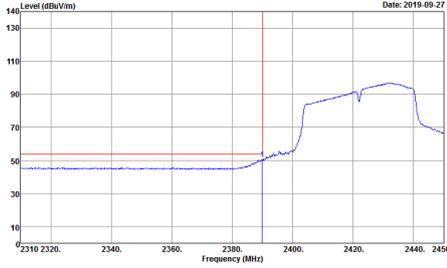
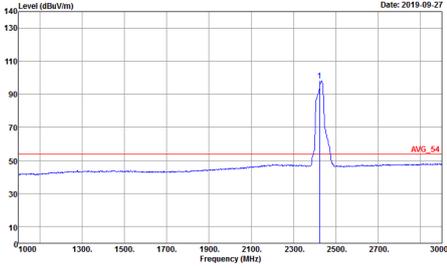
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 982030 Setting : 17.5</p>	<p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 982030 Setting : 17.5</p>
Avg.	<p>Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 982030 Setting : 17.5</p>	<p>Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 982030 Setting : 17.5</p>

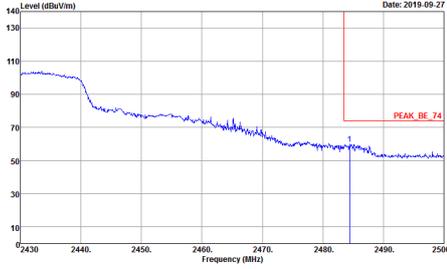
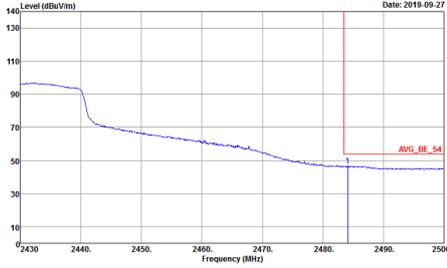


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
1	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Date: 2019-09-27</p> <p>Site : 03CH12-HY            Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 17.5</p>	<p>Left Blank</p>
<p><b>Avg.</b></p>	 <p>Date: 2019-09-27</p> <p>Site : 03CH12-HY            Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL            : RBW:1000.000KHz VBW:3.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 17.5</p>	<p>Left Blank</p>

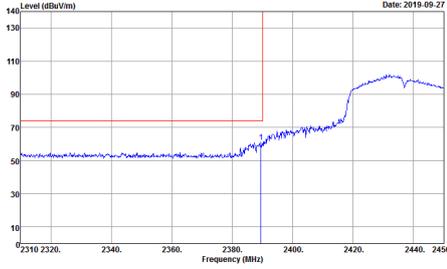
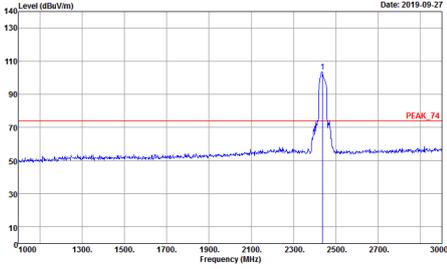
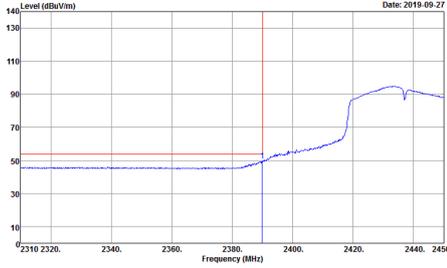
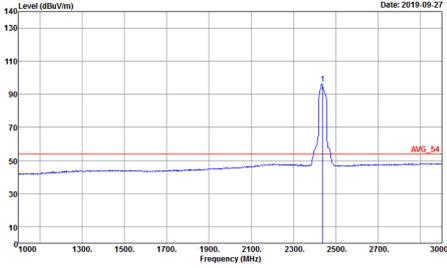


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
1	Vertical	Fundamental
Peak	 <p>Date: 2019-09-27</p> <p>Site : 03CH12-HY            Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 17.5</p>	 <p>Date: 2019-09-27</p> <p>Site : 03CH12-HY            Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 17.5</p>
Avg.	 <p>Date: 2019-09-27</p> <p>Site : 03CH12-HY            Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL            : RBW:1000.000KHz VBW:3.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 17.5</p>	 <p>Date: 2019-09-27</p> <p>Site : 03CH12-HY            Condition : AVG_54 3m HORN_9120D_1328 VERTICAL            : RBW:1000.000KHz VBW:3.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 17.5</p>

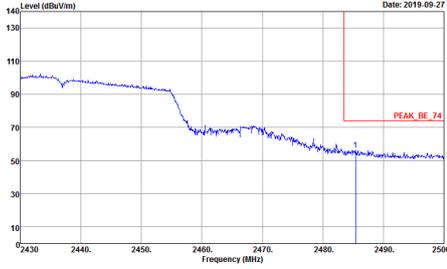
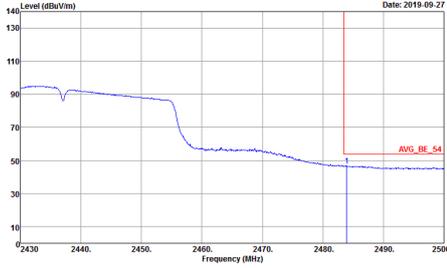


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
1	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Date: 2019-09-27</p> <p>Site : 03CH12-HY            Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 17.5</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	 <p>Date: 2019-09-27</p> <p>Site : 03CH12-HY            Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL            RBW:1000.000KHz VBW:3.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 17.5</p>	<p>Left blank</p>

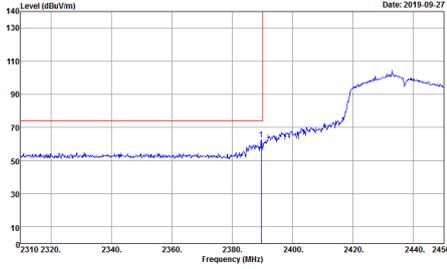
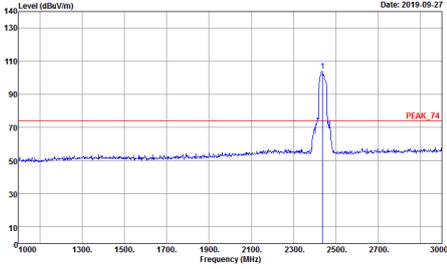
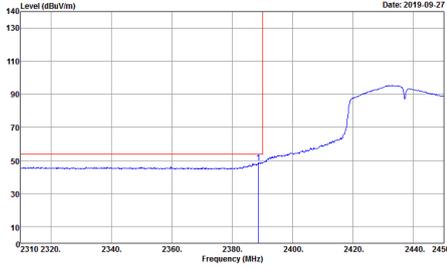
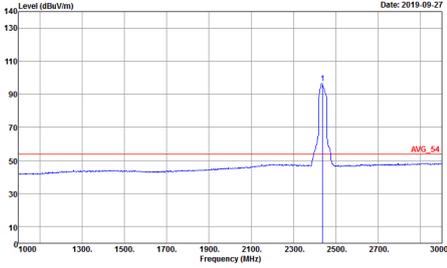


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Date: 2019-09-27</p> <p>Site : 03CH12-HY            Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 16</p>	 <p>Date: 2019-09-27</p> <p>Site : 03CH12-HY            Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 16</p>
Avg.	 <p>Date: 2019-09-27</p> <p>Site : 03CH12-HY            Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL            : RBW:1000.000KHz VBW:3.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 16</p>	 <p>Date: 2019-09-27</p> <p>Site : 03CH12-HY            Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL            : RBW:1000.000KHz VBW:3.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 16</p>

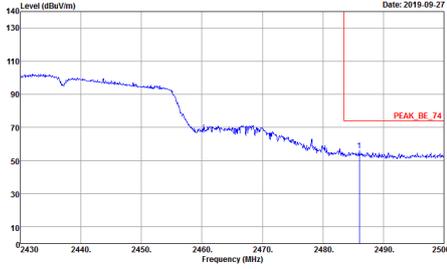
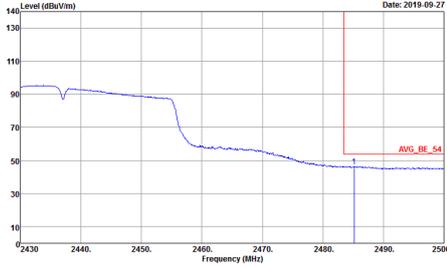


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 <p>Date: 2019-09-27</p> <p>Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 982030 Setting : 16</p>	Left blank
Avg.	 <p>Date: 2019-09-27</p> <p>Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 982030 Setting : 16</p>	Left blank

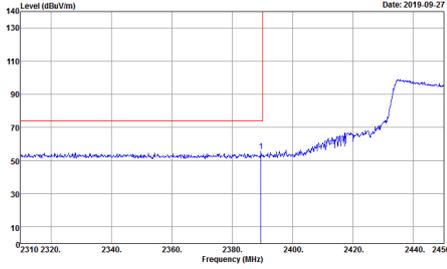
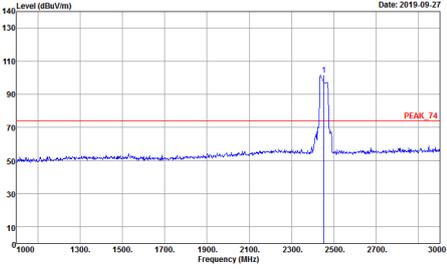
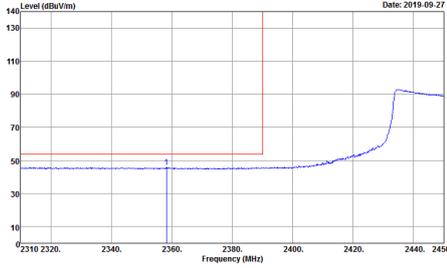
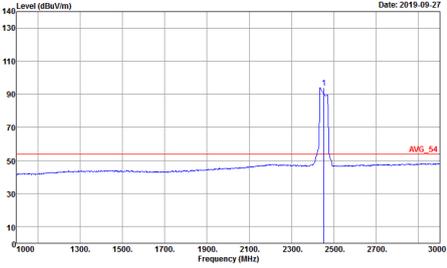


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 <p>           Site : 03CH12-HY            Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 16         </p>	 <p>           Site : 03CH12-HY            Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 16         </p>
Avg.	 <p>           Site : 03CH12-HY            Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL            : RBW:1000.000KHz VBW:3.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 16         </p>	 <p>           Site : 03CH12-HY            Condition : AVG_54 3m HORN_9120D_1328 VERTICAL            : RBW:1000.000KHz VBW:3.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 16         </p>

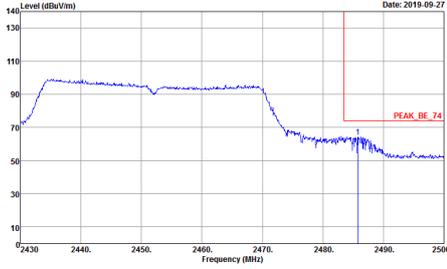
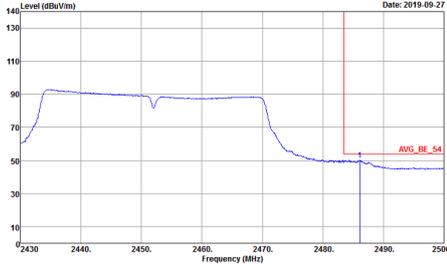


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - R	
1	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Date: 2019-09-27</p> <p>Site : 03CH12-HY            Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 16</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	 <p>Date: 2019-09-27</p> <p>Site : 03CH12-HY            Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL            RBW:1000.000KHz VBW:3.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 16</p>	<p>Left blank</p>

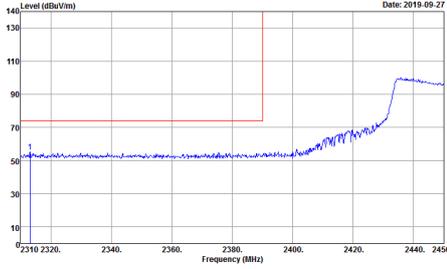
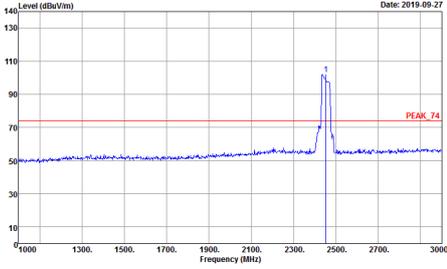
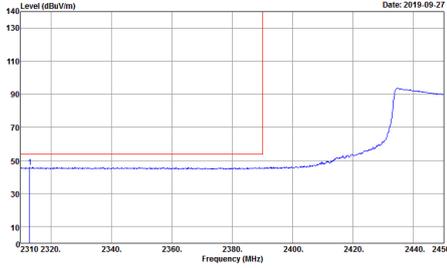
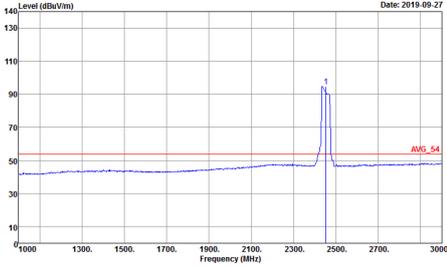


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
1	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Date: 2019-09-27</p> <p>Site : 03CH12-HY            Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 14.5</p>	 <p>Date: 2019-09-27</p> <p>Site : 03CH12-HY            Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 14.5</p>
<p><b>Avg.</b></p>	 <p>Date: 2019-09-27</p> <p>Site : 03CH12-HY            Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL            : RBW:1000.000KHz VBW:3.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 14.5</p>	 <p>Date: 2019-09-27</p> <p>Site : 03CH12-HY            Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL            : RBW:1000.000KHz VBW:3.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 14.5</p>

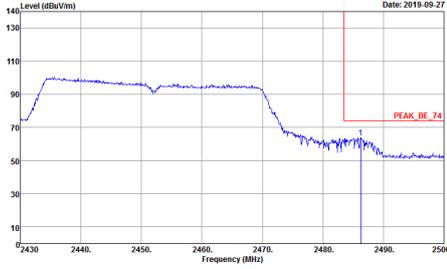
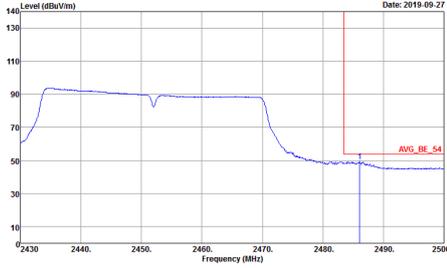


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 982030 Setting : 14.5</p>	Left blank
Avg.	 <p>Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 982030 Setting : 14.5</p>	Left blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
1	Vertical	Fundamental
Peak	 <p>Date: 2019-09-27</p> <p>Site : 03CH12-HY            Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 14.5</p>	 <p>Date: 2019-09-27</p> <p>Site : 03CH12-HY            Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 14.5</p>
Avg.	 <p>Date: 2019-09-27</p> <p>Site : 03CH12-HY            Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL            : RBW:1000.000KHz VBW:3.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 14.5</p>	 <p>Date: 2019-09-27</p> <p>Site : 03CH12-HY            Condition : AVG_54 3m HORN_9120D_1328 VERTICAL            : RBW:1000.000KHz VBW:3.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 14.5</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
1	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Date: 2019-09-27</p> <p>Site : 03CH12-HY            Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 14.5</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	 <p>Date: 2019-09-27</p> <p>Site : 03CH12-HY            Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL            RBW:1000.000KHz VBW:3.000KHz SWT:Auto            Detector : Peak            Project : 982030            Setting : 14.5</p>	<p>Left blank</p>



2.4GHz 2400~2483.5MHz

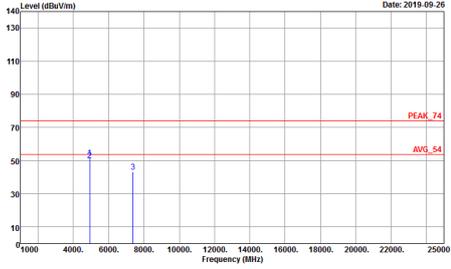
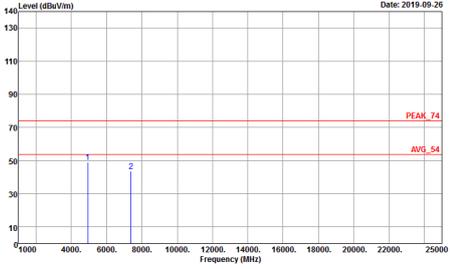
WIFI 802.11b (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.	<p>Date: 2019-09-26</p> <p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 982030 Setting : 18</p>	<p>Date: 2019-09-26</p> <p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 982030 Setting : 18</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
1	Horizontal	Vertical
<b>Peak</b> <b>Avg.</b>	<p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 982030 Setting : 21</p>	<p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 982030 Setting : 21</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Vertical
<p>Peak</p> <p>Avg.</p>	 <p>Site : 03CH12-HY          Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL          Detector : Peak          Project : 982030          Setting : 18.5</p>	 <p>Site : 03CH12-HY          Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL          Detector : Peak          Project : 982030          Setting : 18.5</p>



2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 982030 Setting : 16</p>	<p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 982030 Setting : 16</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
1	Horizontal	Vertical
<b>Peak</b> <b>Avg.</b>	<p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 982030 Setting : 20.5</p>	<p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 982030 Setting : 20.5</p>

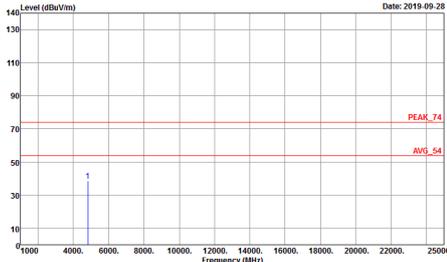
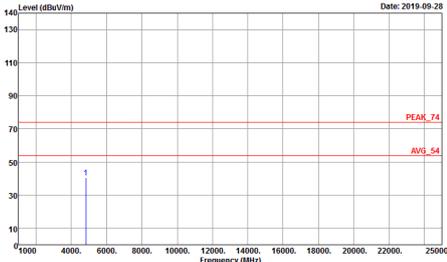


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Vertical
<b>Peak</b> <b>Avg.</b>	<p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 982030 Setting : 17</p>	<p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 982030 Setting : 17</p>



**2.4GHz 2400~2483.5MHz**

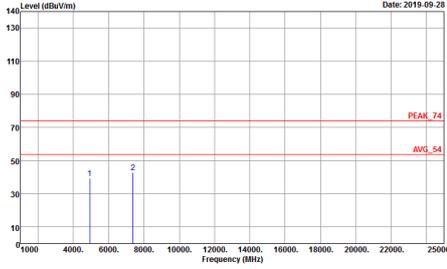
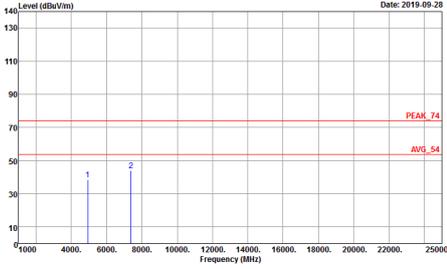
**WIFI 802.11n HT20 (Harmonic @ 3m)**

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Horizontal	Vertical
<p><b>Peak</b></p> <p><b>Avg.</b></p>	 <p>Site : 03CH12-HY            Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL            Detector : Peak            Project : 982030            Setting : 16</p>	 <p>Site : 03CH12-HY            Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL            Detector : Peak            Project : 982030            Setting : 16</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH06 2437MHz	
1	Horizontal	Vertical
<b>Peak</b> <b>Avg.</b>	<p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 982030 Setting : 20.5</p>	<p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 982030 Setting : 20.5</p>

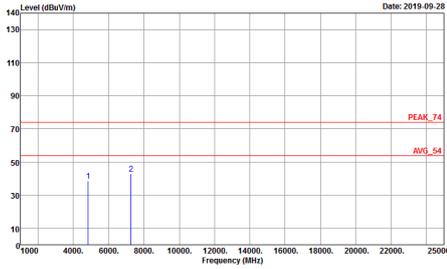
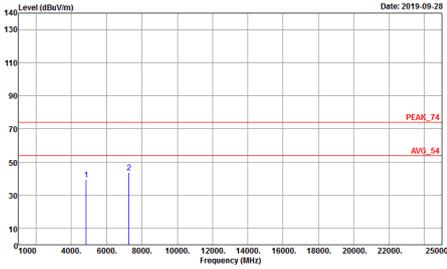


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Vertical
<p>Peak Avg.</p>	 <p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 982030 Setting : 16</p>	 <p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 982030 Setting : 16</p>



2.4GHz 2400~2483.5MHz

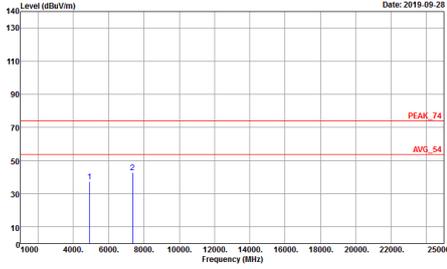
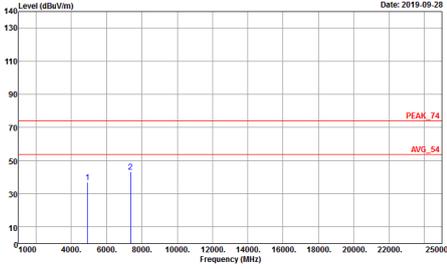
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH03 2422MHz	
1	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 982030 Setting : 17.5</p>	 <p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 982030 Setting : 17.5</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 982030 Setting : 16</p>	<p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 982030 Setting : 16</p>



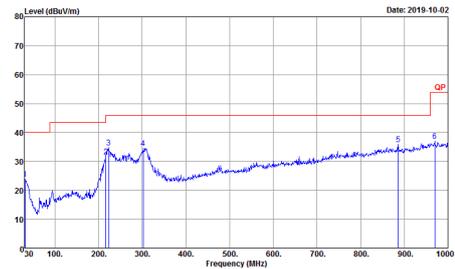
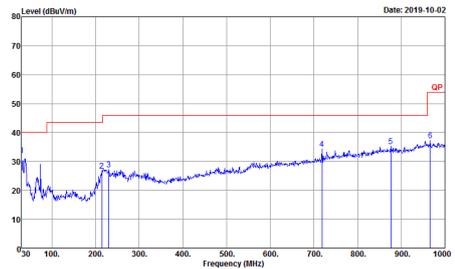
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH09 2452MHz	
1	Horizontal	Vertical
<p><b>Peak</b></p> <p><b>Avg.</b></p>	 <p>Date: 2019-09-28</p> <p>Site : 03CH12-HY          Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL          Detector : Peak          Project : 982030          Setting : 14.5</p>	 <p>Date: 2019-09-28</p> <p>Site : 03CH12-HY          Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL          Detector : Peak          Project : 982030          Setting : 14.5</p>



<AC Adapter 2>

Emission below 1GHz

2.4GHz WIFI 802.11n HT40 (LF)

WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11n HT40 LF	
1	Horizontal	Vertical
<p>QP / Peak</p>	 <p>Site : 03CH12-HY Condition : QP 3m BILOG_6111D_37059 HORIZONTAL Detector : Peak Project : 982030</p>	 <p>Site : 03CH12-HY Condition : QP 3m BILOG_6111D_37059 VERTICAL Detector : Peak Project : 982030</p>

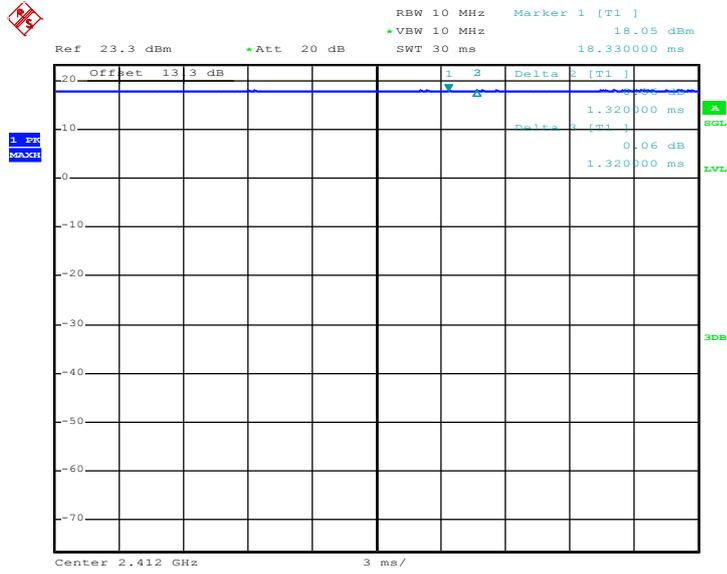


## Appendix E. Duty Cycle Plots

Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
802.11b	100	-	-	10Hz	0.00
802.11g	96.67	1395	0.72	1kHz	0.15
2.4GHz 802.11n HT20	96.37	1310	0.76	1kHz	0.16
2.4GHz 802.11n HT40	93.64	648	1.54	3kHz	0.29

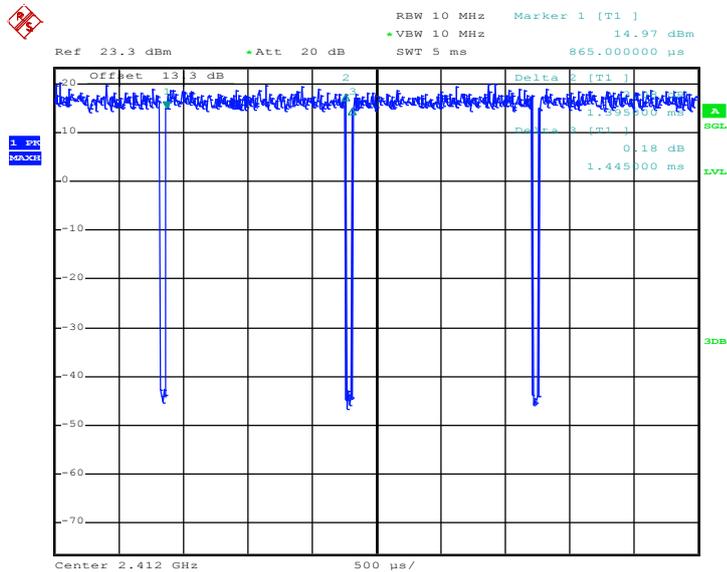


802.11b



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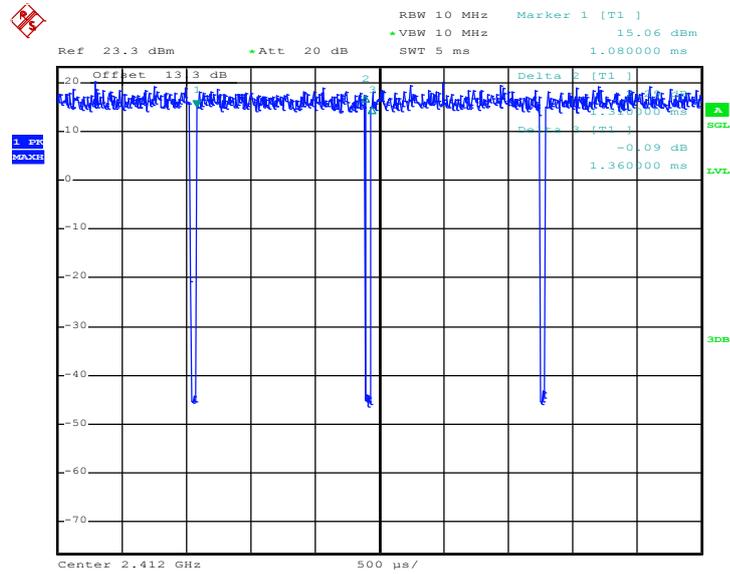
802.11g



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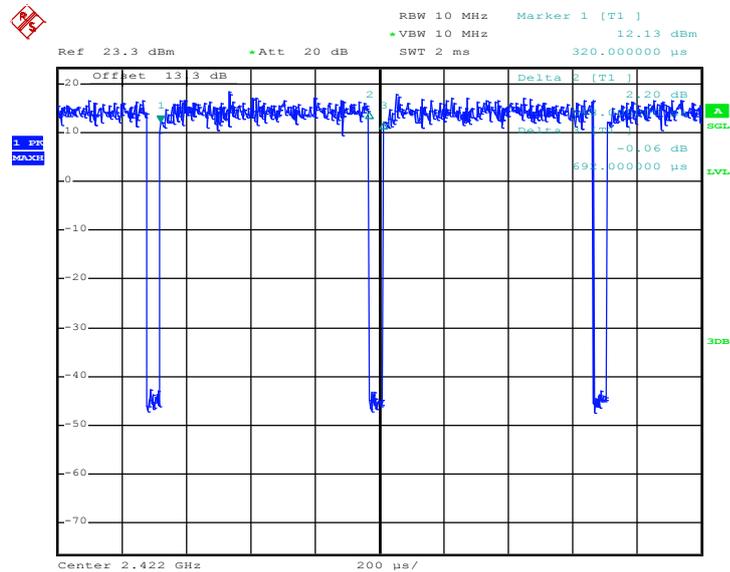


802.11n HT20



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802.11n HT40



Date: 9.OCT.2019 15:45:00