

## FCC TEST REPORT

For

Shenzhen Geniatech Inc., Ltd.

eyetv

Model No.: Netstream Air

Additional Model No.: Netstream Duo, Netstream 4S, Netstream 4A, Netstream 4T,

Netstream A, Eyetv Netstream, eyetv T2, U6

Prepared for : Shenzhen Geniatech Inc., Ltd.  
Address : 18F, GDC Building, No 9th, Gaoxin Middle 3rd Road, Nanshan, Shenzhen, China

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.  
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Date of receipt of test sample : April 21, 2017  
Number of tested samples : 1  
Serial number : Prototype  
Date of Test : April 21, 2017~ May 04, 2017  
Date of Report : May 04, 2017

**FCC TEST REPORT**  
**FCC CFR 47 PART 15 C(15.247): 2016**

**Report Reference No.** ..... : **LCS170421056AE**

Date of Issue ..... : May 04, 2017

**Testing Laboratory Name** ..... : **Shenzhen LCS Compliance Testing Laboratory Ltd.**

Address ..... : 1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue,  
 Bao'an District, Shenzhen, Guangdong, China

Testing Location/ Procedure ..... : Full application of Harmonised standards   
 Partial application of Harmonised standards   
 Other standard testing method

**Applicant's Name** ..... : **Shenzhen Geniatech Inc., Ltd.**

Address ..... : 18F, GDC Building, No 9th, Gaoxin Middle 3rd Road, Nanshan,  
 Shenzhen, China

**Test Specification**

Standard ..... : FCC CFR 47 PART 15 C(15.247): 2016

**Test Report Form No.** ..... : LCSEMC-1.0

TRF Originator ..... : Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF ..... : Dated 2011-03

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**EUT Description.** ..... : **eyetv**

Trade Mark ..... : N/A

Model/ Type reference ..... : Netstream Air

Ratings ..... : DC 5.0V/2A by AC Adapter

Result ..... : **Positive**

**Compiled by:**

*Aking Jin*

Aking Jin/ File administrators

**Supervised by:**

*Glin Lu*

Glin Lu/ Technique principal

**Approved by:**

*Gavin Liang*

Gavin Liang/ Manager

### FCC -- TEST REPORT

<b>Test Report No. :</b> LCS170421056AE	<u>May 04, 2017</u> Date of issue
---	--------------------------------------

EUT.....	: eyetv
Type / Model.....	: Netstream Air
<b>Applicant.....</b>	<b>: Shenzhen Geniatech Inc., Ltd.</b>
Address.....	: 18F, GDC Building, No 9th, Gaoxin Middle 3rd Road, Nanshan, Shenzhen, China
Telephone.....	: /
Fax.....	: /
<b>Manufacturer.....</b>	<b>: Shenzhen Geniatech Inc., Ltd.</b>
Address.....	: 18F, GDC Building, No 9th, Gaoxin Middle 3rd Road, Nanshan, Shenzhen, China
Telephone.....	: /
Fax.....	: /
<b>Factory.....</b>	<b>: Shenzhen Geniatech Inc., Ltd.</b>
Address.....	: 18F, GDC Building, No 9th, Gaoxin Middle 3rd Road, Nanshan, Shenzhen, China
Telephone.....	: /
Fax.....	: /

<b>Test Result</b>	<b>Positive</b>
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

**Revision History**

Revision	Issue Date	Revisions	Revised By
00	May 04, 2017	Initial Issue	Gavin Liang

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## 1. GENERAL INFORMATION

### 1.1. Description of Device (EUT)

EUT	: eyetv
Model Number	: Netstream Air, Netstream Duo, Netstream 4S, Netstream 4A, Netstream 4T, Netstream A, Eyetv Netstream, eyetv T2, U6
Model Declaration	: PCB board, structure and internal of these model(s) are the same, So no additional models were tested
Test Model	: Netstream Air
Power Supply	: DC 5.0V/2A by AC Adapter
Frequency Range	: IEEE 802.11b:2412-2462MHz IEEE 802.11g:2412-2462MHz IEEE 802.11n HT20:2412-2462MHz/5180-5240MHz/5745-5825MHz IEEE 802.11n HT40:2422-2452MHz/5190-5230MHz/5755-5795MHz IEEE 802.11a:5180-5240MHz/5745-5825MHz IEEE 802.11ac:5180-5240MHz/5745-5825MHz IEEE 802.11ac VHT40: 5190-5230MHz/5755-5795MHz IEEE 802.11ac VHT80: 5210MHz/5775MHz
Channel Number	: 11 Channels for WIFI 20MHz Bandwidth(802.11b/g/n-HT20) 7 Channels for WIFI 40MHz Bandwidth(802.11n-HT40) 4 Channels for 5180.00-5240.00MHz(802.11a/ac/n-HT20) 2 Channels for 5190.00-5230.00MHz(802.11ac/n-HT40) 1 Channels for 5210.00MHz(802.11ac-HT80) 5 Channels for 5745.00-5825.00MHz(802.11a/ac/n-HT20) 2 Channels for 5755.00-5795.00MHz(802.11ac/n-HT40) 1 Channels for 5775.00MHz(802.11ac-HT80)
Modulation Technology	: IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM,QPSK,BPSK) IEEE 802.11a: OFDM (64QAM, 16QAM,QPSK,BPSK) IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM,QPSK,BPSK)
Data Rates	: IEEE 802.11b: 1-11Mbps IEEE 802.11g: 6-54Mbps IEEE 802.11n: MCS0-MCS15 IEEE 802.11a: 6-54Mbps IEEE 802.11ac: MCS0-MCS15
Antenna Type And Gain	: PIFA antenna, 2.0dBi (Max.) for 2.4G, 5.2G and 5.8G WLAN

Note: This device support MIMO technology, and only 802.11n/ac support this technology.

### 1.2. Host System Configuration List and Details

Manufacturer	Description	Model	Serial Number	Certificate
TRANSIN	Adapter	TS-A010-050020ADH	--	VoC

### 1.3. External I/O Cable

I/O Port Description	Quantity	Cable
DC Power Port	1	N/A
ATSC Antenna Port	1	N/A

### 1.4. Description of Test Facility

CNAS Registration Number. is L4595.  
 FCC Registration Number. is 899208.  
 Industry Canada Registration Number. is 9642A-1.  
 ESMD Registration Number. is ARCB0108.  
 UL Registration Number. is 100571-492.  
 TUV SUD Registration Number. is SCN1081.  
 TUV RH Registration Number. is UA 50296516-001

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

### 1.5. Statement of the Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

### 1.6. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Radiation Uncertainty	9KHz~30MHz	±3.10dB	(1)
	30MHz~200MHz	±2.96dB	(1)
	200MHz~1000MHz	±3.10dB	(1)
	1GHz~26.5GHz	±3.80dB	(1)
	26.5GHz~40GHz	±3.90dB	(1)
Conduction Uncertainty	150kHz~30MHz	±1.63dB	(1)
Power disturbance	30MHz~300MHz	±1.60dB	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

## 1.7. Description of Test Modes

The EUT has been tested under operating condition.

This test was performed with EUT in X, Y, Z position and the worst case was found when EUT in X position.

Worst-case mode and channel used for 150 kHz-30 MHz power line conducted emissions was the mode and channel with the highest output power, which was determined to be 802.11b mode (Low Channel).

Worst-case mode and channel used for 9kHz-1000 MHz radiated emissions was the mode and channel with the highest output power, that was determined to be 802.11b mode(Low Channel).

Worst-Case data rates were utilized from preliminary testing of the Chipset, worst-case data rates used during the testing are as follows:

802.11b Mode: 1 Mbps, DSSS.

802.11g Mode: 6 Mbps, OFDM.

802.11n Mode HT20: MCS0, OFDM.

802.11n Mode HT40: MCS7, OFDM.

### Channel List & Frequency

#### IEEE 802.11b/g/n HT20

Frequency Band	Channel No.	Frequency(MHz)	Channel No.	Frequency(MHz)
2412~2462MHz	1	2412	7	2442
	2	2417	8	2447
	3	2422	9	2452
	4	2427	10	2457
	5	2432	11	2462
	6	2437	--	--

#### IEEE 802.11n HT40

Frequency Band	Channel No.	Frequency(MHz)	Channel No.	Frequency(MHz)
2422~2452MHz	1	--	7	2442
	2	--	8	2447
	3	2422	9	2452
	4	2427	10	--
	5	2432	11	--
	6	2437	--	--

The Radio software & hardware version is same as the product software & hardware version in page6. The test software is QATool\_Dbg, and test configuration of the software shows as below:

Test mode	Channel No.	Frequency(MHz)	Software setting value	
			Chain 0	Chain 1
802.11b	1	2412	37	37
	6	2437	37	37
	11	2462	37	37
802.11g	1	2412	36	36
	6	2437	36	36
	11	2462	36	36
802.11n20	1	2412	36	36
	6	2437	36	36
	11	2462	36	36
802.11n40	3	2422	36	36
	6	2437	36	36
	9	2452	36	36



## 2. TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

The radiated testing was performed at an antenna-to-EUT distance of 3 meters. All radiated and conducted emissions measurement was performed at Shenzhen LCS Compliance Testing Laboratory Ltd.

### 2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

### 2.2. EUT Exercise

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to FCC's request, Test Procedure KDB558074 D01 DTS Meas. Guidance v03r05 and KDB 662911 are required to be used for this kind of FCC 15.247 digital modulation device.

According to its specifications, the EUT must comply with the requirements of the Section 15.203, 15.205, 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C.

### 2.3. General Test Procedures

#### 2.3.1 Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 6.2.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

#### 2.3.2 Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 6.3 of ANSI C63.10-2013

### 3. SYSTEM TEST CONFIGURATION

#### 3.1. Justification

The system was configured for testing in a continuous transmit condition.

#### 3.2. EUT Exercise Software

The system was configured for testing in a continuous transmits condition and change test channels by software (realtek\_8812AU) provided by application.

#### 3.3. Special Accessories

N/A

#### 3.4. Block Diagram/Schematics

Please refer to the related document

#### 3.5. Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

#### 3.6. Test Setup

Please refer to the test setup photo.

#### 4. SUMMARY OF TEST RESULTS

Applied Standard: FCC Part 15 Subpart C		
FCC Rules	Description of Test	Result
/	Duty Cycle	Compliant
§15.247(b)	Maximum Conducted Output Power	Compliant
§15.247(e)	Power Spectral Density	Compliant
§15.247(a)(2)	6dB Bandwidth	Compliant
§15.247(a)	Occupied Bandwidth	Compliant
§15.209, §15.247(d)	Radiated and Conducted Spurious Emissions	Compliant
§15.205	Emissions at Restricted Band	Compliant
§15.207(a)	Conducted Emissions	Compliant
§15.203	Antenna Requirements	Compliant
§15.247(i)§2.1091	RF Exposure	Compliant

## 5. TEST RESULT

### 5.1. On Time and Duty Cycle

#### 5.1.1. Standard Applicable

None; for reporting purpose only.

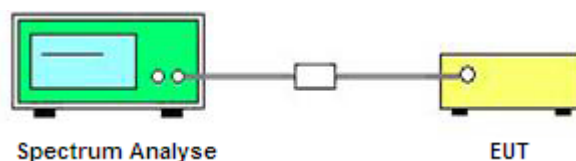
#### 5.1.2. Measuring Instruments and Setting

Please refer to section 6 of equipment's list in this report. The following table is the setting of the spectrum analyse.

#### 5.1.3. Test Procedures

1. Set the centre frequency of the spectrum analyse to the transmitting frequency;
2. Set the span=0MHz, RBW=8MHz, VBW=50MHz, Sweep time=5ms;
3. Detector = peak;
4. Trace mode = Single hold.

#### 5.1.4. Test Setup Layout



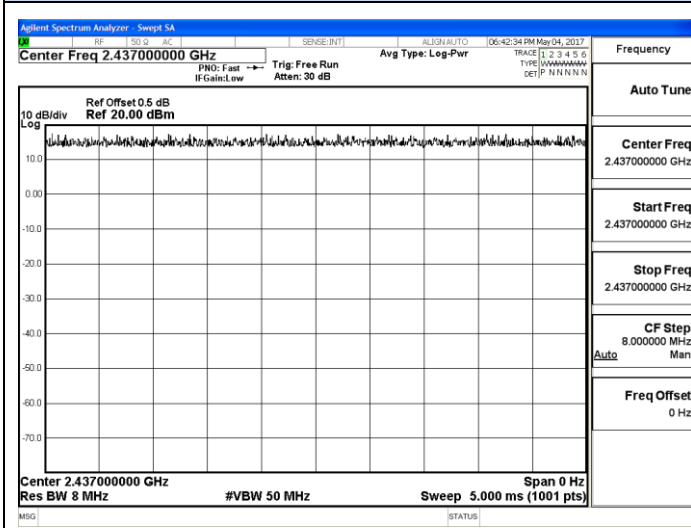
#### 5.1.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

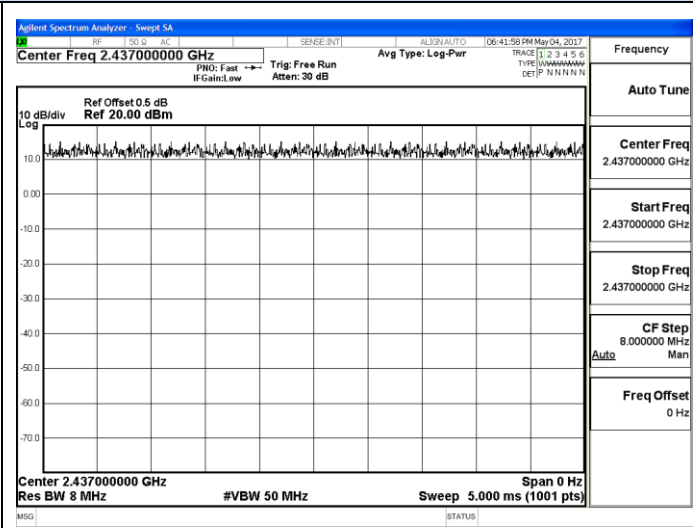
#### 5.1.6. Test result

Mode	On Time B (ms)	Period (ms)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW(KHz)
802.11b	5.0	5.0	1	100	0	0.01
802.11g	5.0	5.0	1	100	0	0.01
802.11n -HT20	5.0	5.0	1	100	0	0.01
802.11n -HT40	5.0	5.0	1	100	0	0.01

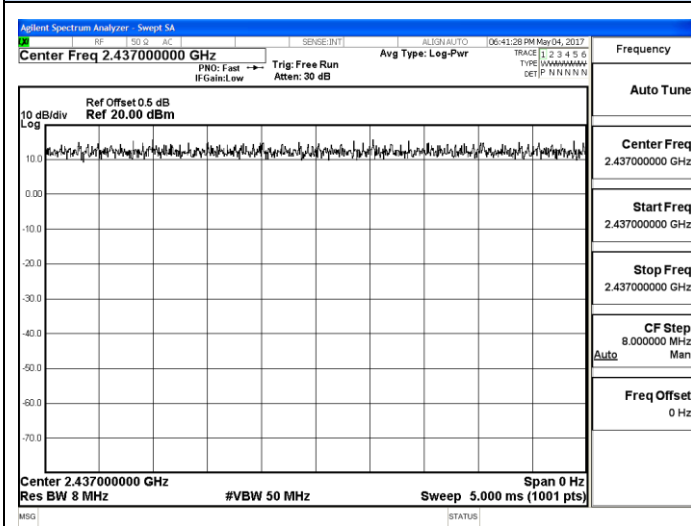
Test plot of On Time and Duty Cycle



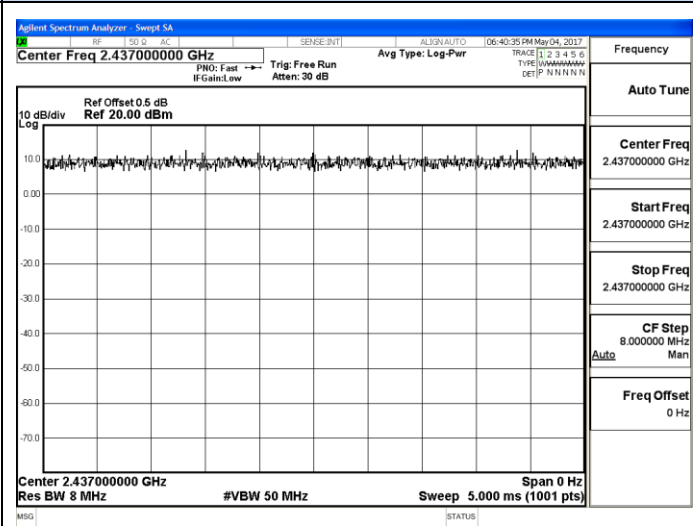
802.11b



802.11g



802.11n-HT20



802.11n-HT40

## 5.2. Maximum Conducted Output Power Measurement

### 5.2.1. Standard Applicable

According to §15.247(b): For systems using digital modulation in the 2400-2483.5 MHz and 5725-5850 MHz band, the limit for maximum peak conducted output power is 30dBm. The limit has to be reduced by the amount in dB that the gain of the antenna exceeds 6dBi. 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.

Systems operating in the 5725-5850 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi without any corresponding reduction in transmitter peak output power.

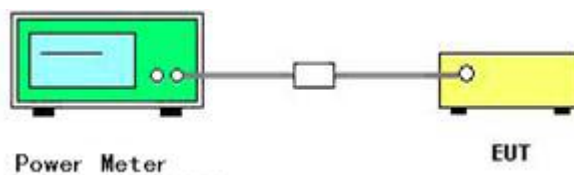
### 5.2.2. Measuring Instruments and Setting

Please refer to section 6 of equipment's list in this report. The following table is the setting of the power meter.

### 5.2.3. Test Procedures

According to KDB558074 D01 DTS Measurement Guidance Section 9.1 Maximum peak conducted output power, 9.1.2 The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

### 5.2.4. Test Setup Layout



### 5.2.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

## 5.2.6. Test Result of Maximum Conducted Output Power

Temperature	25°C	Humidity	60%
Test Engineer	Aking Jin	Configurations	802.11b/g/n

Test Mode	Channel	Frequency (MHz)	Measured Peak Output Power (dBm)		Sum Power (dBm)	Limits (dBm)	Verdict
			Chain0	Chain1			
IEEE 802.11b	1	2412	17.65	17.65	/	≤30	PASS
	6	2437	17.45	17.48	/		
	11	2462	17.59	17.71	/		
IEEE 802.11g	1	2412	16.65	16.36	/	≤30	PASS
	6	2437	16.29	16.35	/		
	11	2462	16.85	16.48	/		
IEEE 802.11n HT20	1	2412	15.32	15.32	18.330	≤30	PASS
	6	2437	15.45	15.45	18.460		
	11	2462	15.25	15.19	18.230		
IEEE 802.11n HT40	3	2422	14.61	14.65	17.640	≤30	PASS
	6	2437	14.51	14.26	17.397		
	9	2452	14.20	14.54	17.384		

## Remark:

1. Measured output power at difference data rate for each mode and recorded worst case for each mode.
2. Test results including cable loss;
3. Worst case data at 1Mbps at IEEE 802.11b; 6Mbps at IEEE 802.11g; 6.5Mbps at IEEE 802.11n HT20; 13.5Mbps at IEEE 802.11n HT40;

## 5.3. Power Spectral Density Measurement

### 5.3.1. Standard Applicable

According to §15.247(e): For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

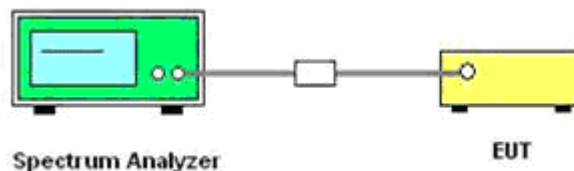
### 5.3.2. Measuring Instruments and Setting

Please refer to section 6 of equipment's list in this report. The following table is the setting of Spectrum Analyzer.

### 5.3.3. Test Procedures

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. The power was monitored at the coupler port with a Spectrum Analyzer. The power level was set to the maximum level.
3. Set the RBW = 100 kHz.
4. Set the VBW  $\geq 3 \times$  RBW
5. Set the span to 1.5 times the DTS channel bandwidth.
6. Detector = peak.
7. Sweep time = auto couple.
8. Trace mode = max hold.
9. Allow trace to fully stabilize.
10. Use the peak marker function to determine the maximum power level.
11. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
12. The resulting peak PSD level shall not be great than 8dBm.

### 5.3.4. Test Setup Layout



### 5.3.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.



## 5.3.6. Test Result of Power Spectral Density

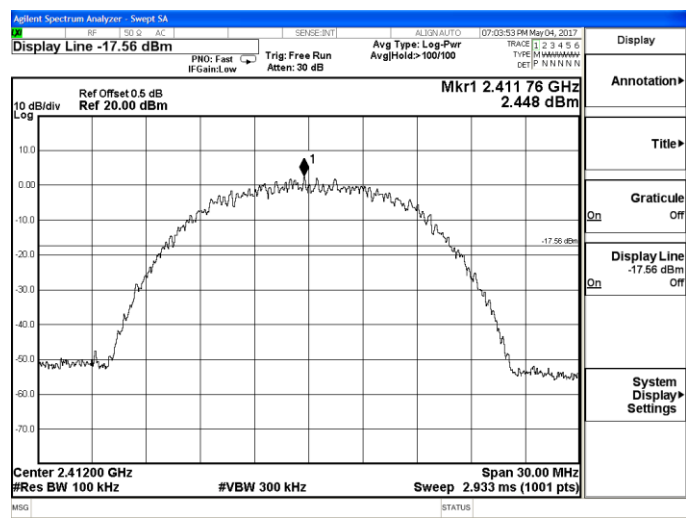
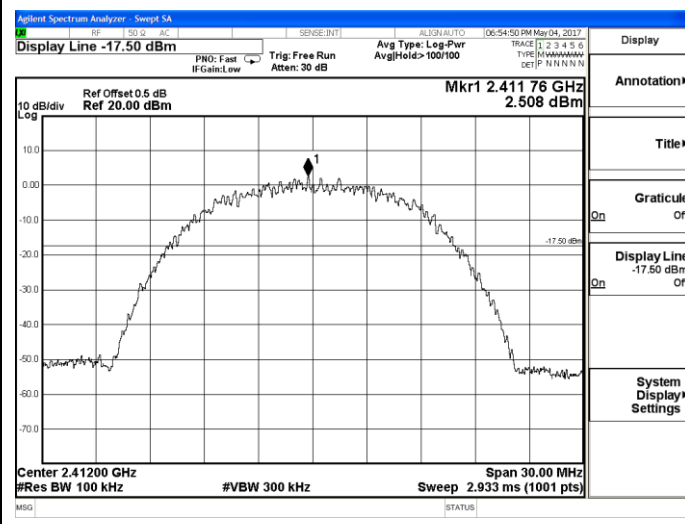
Temperature	25°C	Humidity	60%
Test Engineer	Aking Jin	Configurations	802.11b/g/n

Test Mode	Channel	Frequency (MHz)	Measured Peak Power Spectral Density (dBm/100KHz)		Sum Power (dBm)	Limits (dBm/3KHz)	Verdict
			Chain0	Chain1			
IEEE 802.11b	1	2412	2.508	2.448	/	≤8	PASS
	6	2437	2.771	2.716	/		
	11	2462	2.947	2.809	/		
IEEE 802.11g	1	2412	-3.788	-3.833	/	≤8	PASS
	6	2437	-3.430	-3.827	/		
	11	2462	-3.829	-3.929	/		
IEEE 802.11n HT20	1	2412	-4.659	-4.843	-1.740	≤8	PASS
	6	2437	-4.765	-4.832	-1.788		
	11	2462	-4.592	-4.852	-1.710		
IEEE 802.11n HT40	3	2422	-7.652	-8.140	-4.879	≤8	PASS
	6	2437	-7.384	-8.017	-4.679		
	9	2452	-7.347	-7.867	-4.589		

## Remark:

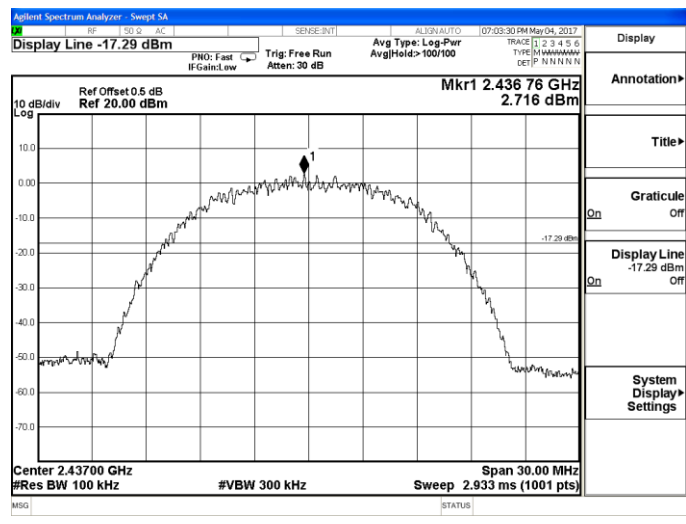
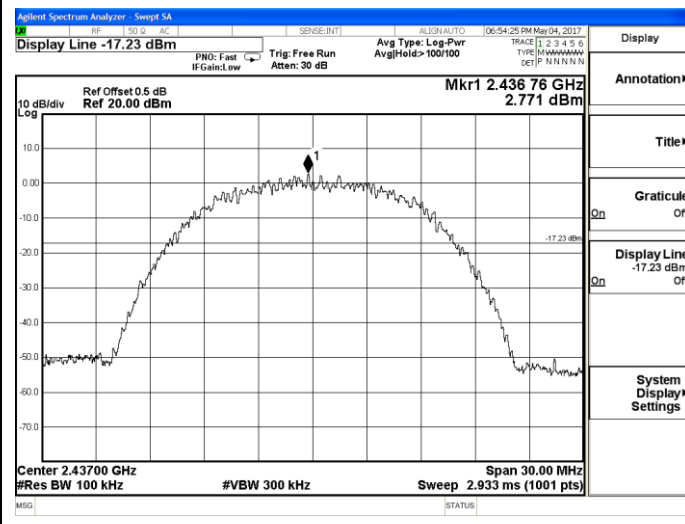
1. Measured output power at difference data rate for each mode and recorded worst case for each mode.
2. Test results including cable loss;
3. Worst case data at 1Mbps at IEEE 802.11b; 6Mbps at IEEE 802.11g; 6.5Mbps at IEEE 802.11n HT20; 13.5Mbps at IEEE 802.11n HT40;
4. please refer to following plots;

Peak Power Spectrum Density
IEEE 802.11b



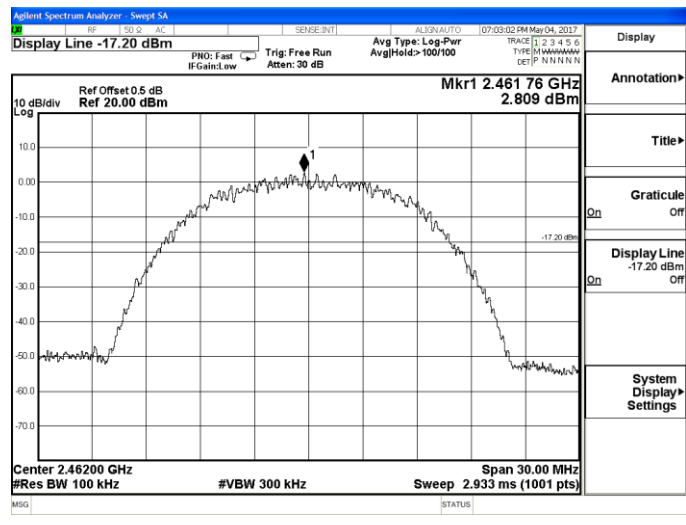
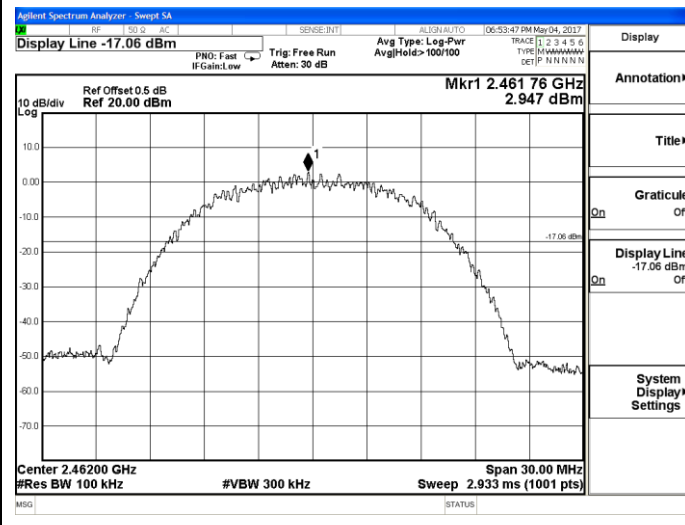
Chain 0-Channel 1 / 2412 MHz

Chain 1-Channel 1 / 2412 MHz



Chain 0-Channel 6 / 2437 MHz

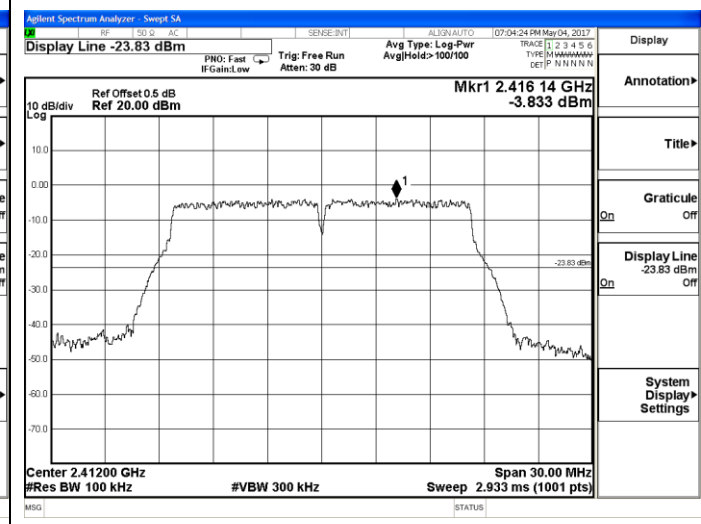
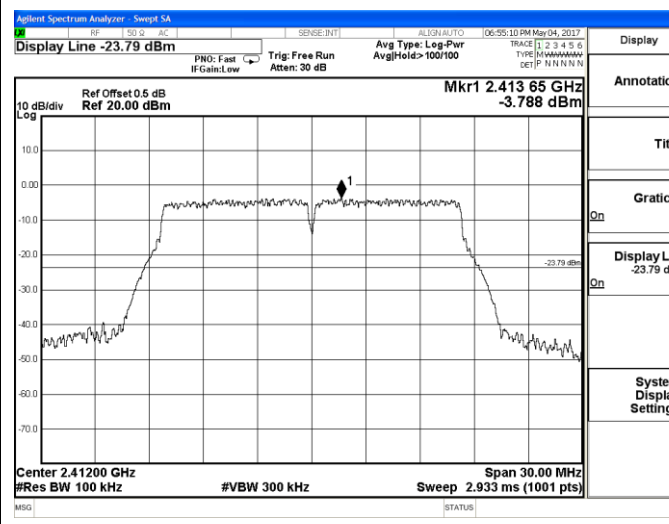
Chain 1-Channel 6 / 2437 MHz



Chain 0-Channel 11 / 2462 MHz

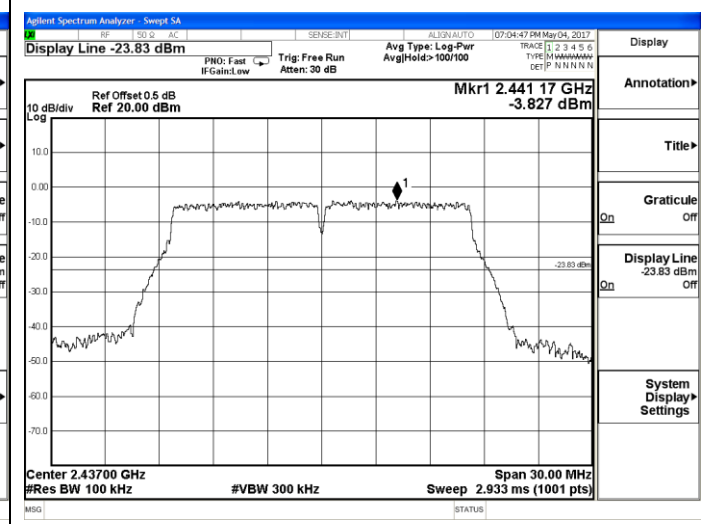
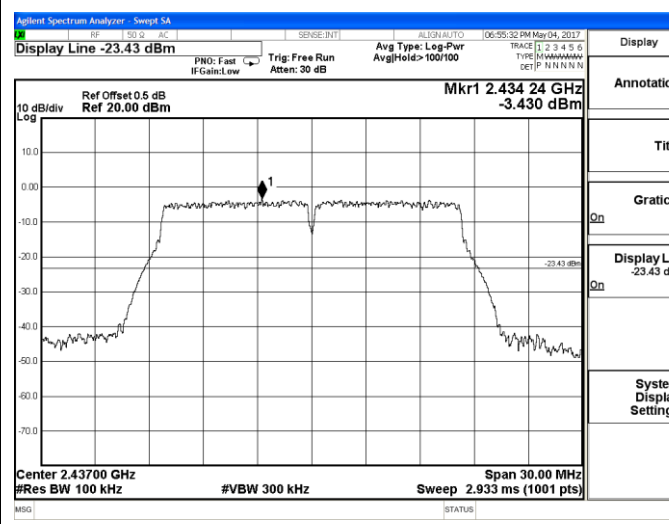
Chain 1-Channel 11 / 2462 MHz

Peak Power Spectrum Density
IEEE 802.11g



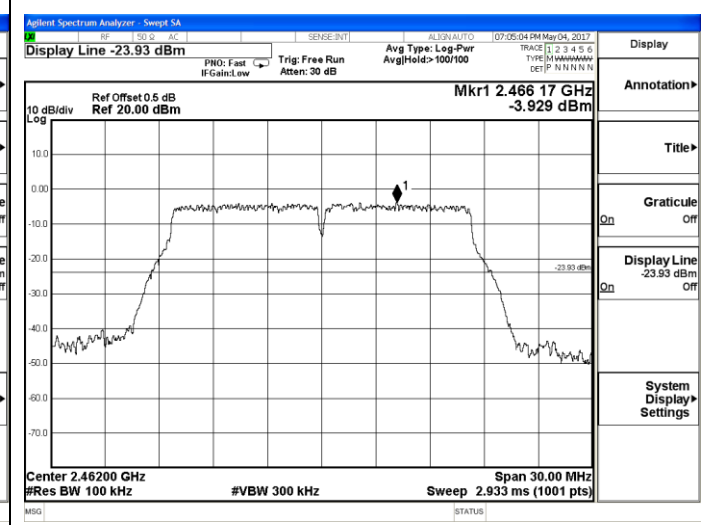
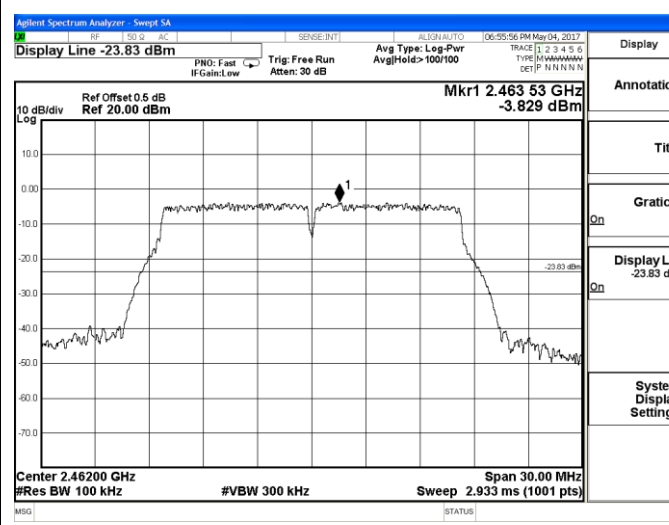
Chain 0-Channel 1 / 2412 MHz

Chain 1-Channel 1 / 2412 MHz



Chain 0-Channel 6 / 2437 MHz

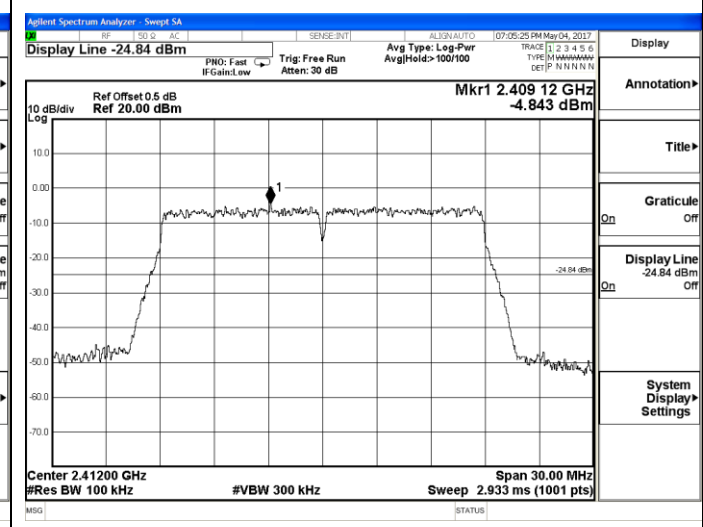
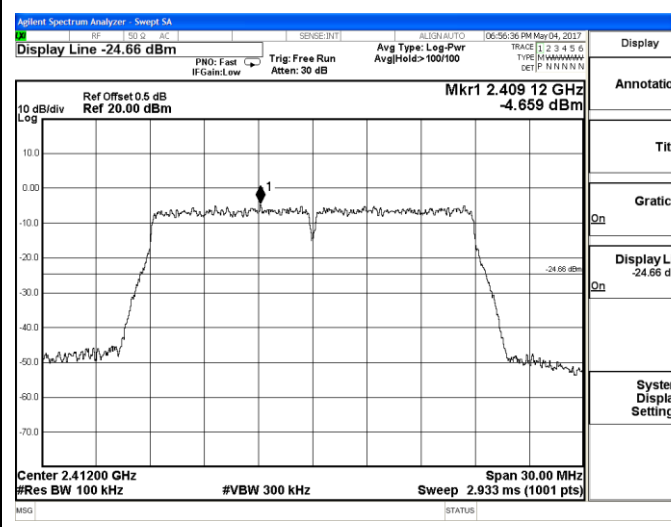
Chain 1-Channel 6 / 2437 MHz



Chain 0-Channel 11 / 2462 MHz

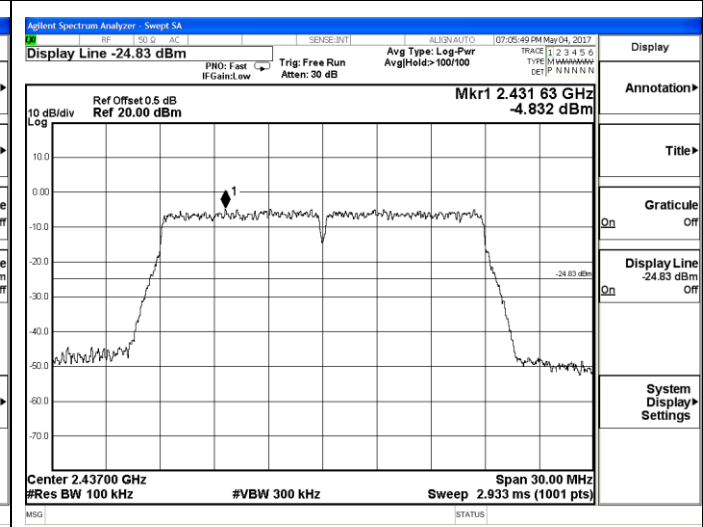
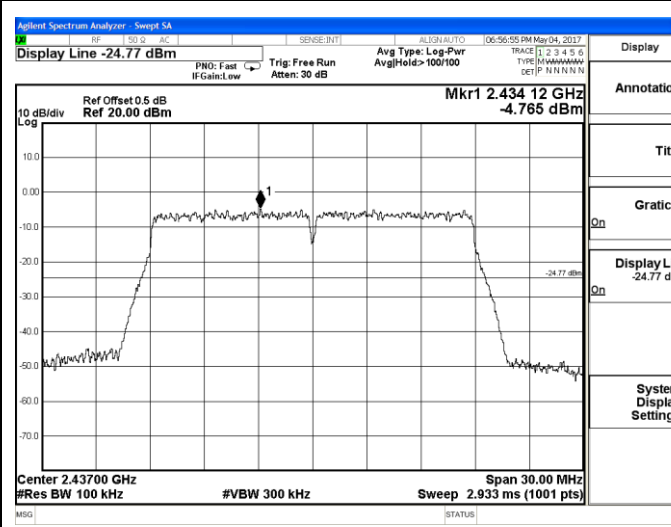
Chain 1-Channel 11 / 2462 MHz

### Peak Power Spectrum Density IEEE 802.11n HT20



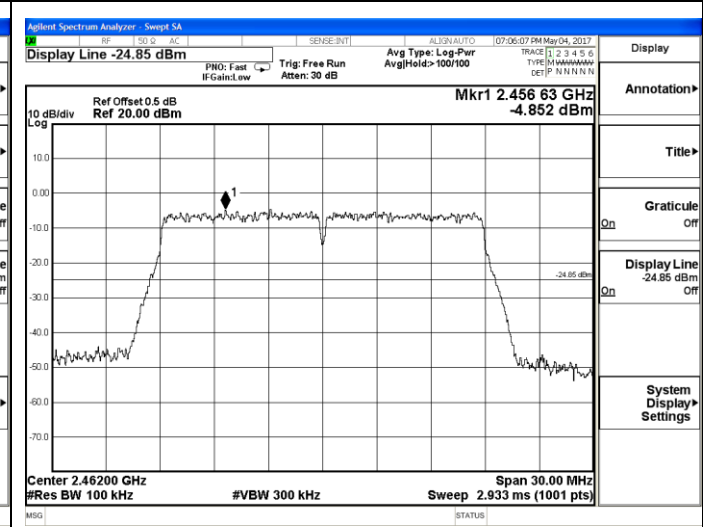
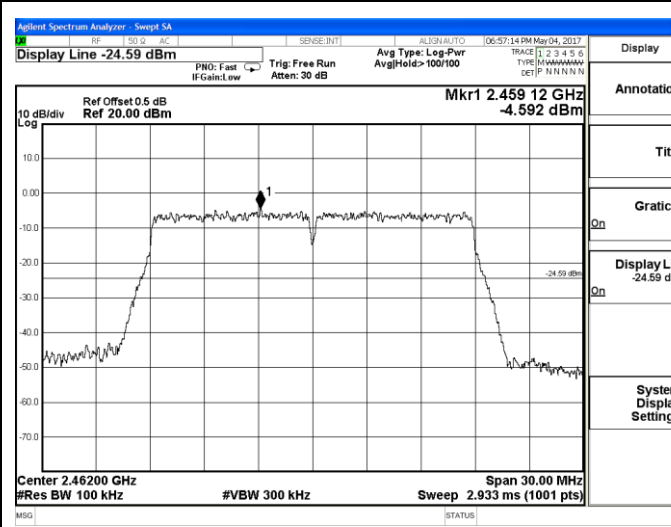
Chain 0-Channel 1 / 2412 MHz

Chain 1-Channel 1 / 2412 MHz



Chain 0-Channel 6 / 2437 MHz

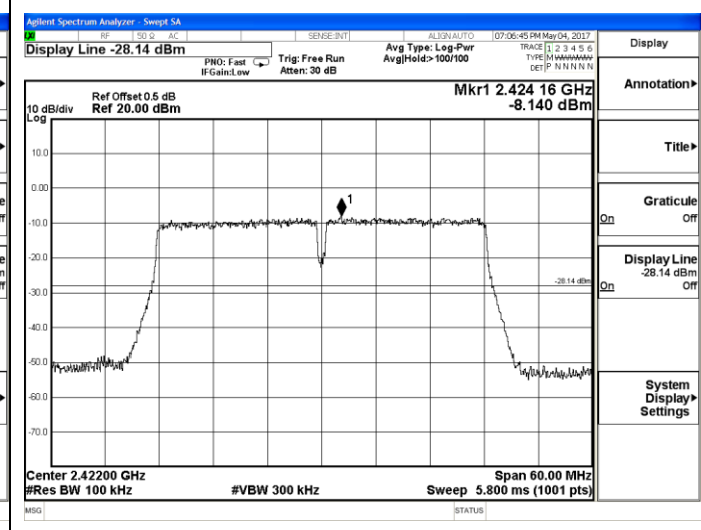
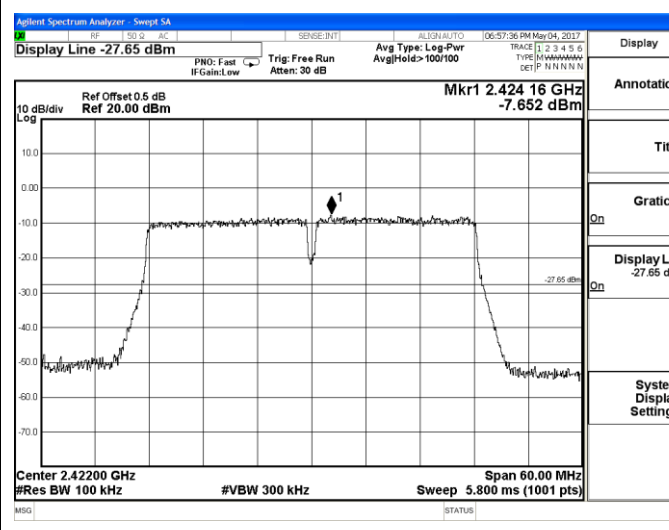
Chain 1-Channel 6 / 2437 MHz



Chain 0-Channel 11 / 2462 MHz

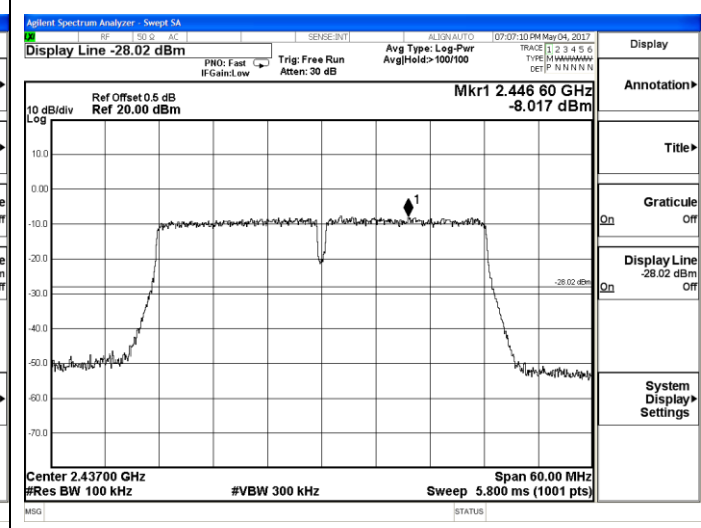
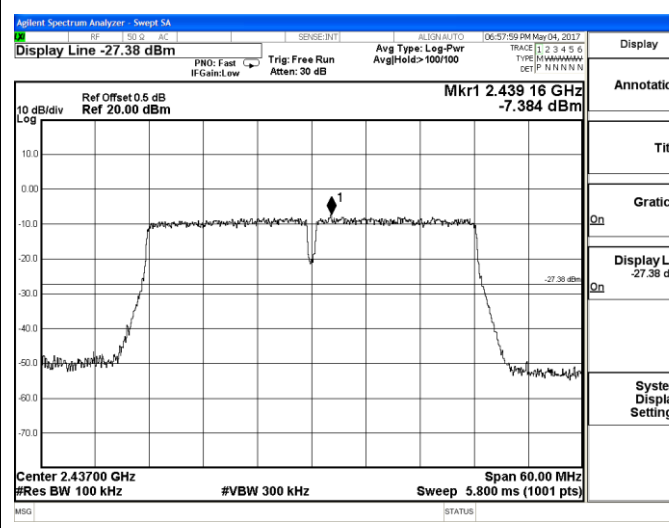
Chain 1-Channel 11 / 2462 MHz

Peak Power Spectrum Density
IEEE 802.11n HT40



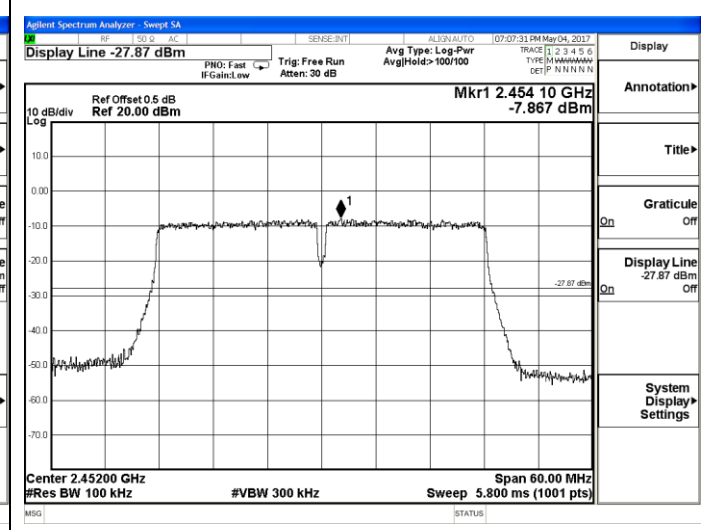
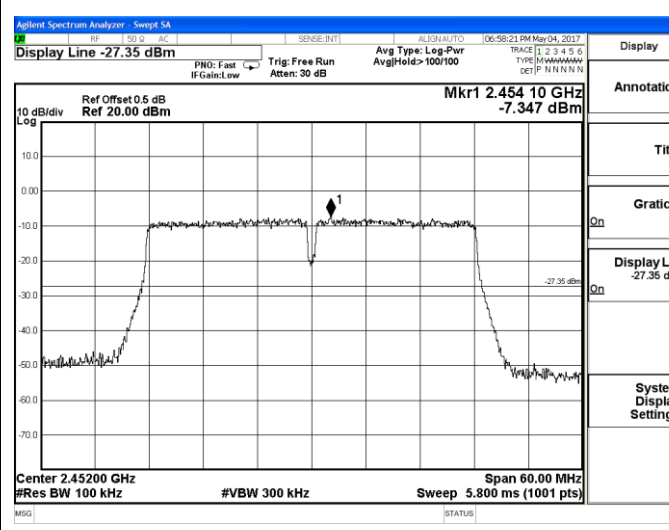
Chain 0-Channel 3 / 2422 MHz

Chain 1-Channel 3 / 2422 MHz



Chain 0-Channel 6 / 2437 MHz

Chain 1-Channel 6 / 2437 MHz



Chain 0-Channel 9 / 2452 MHz

Chain 1-Channel 9 / 2452 MHz

## 5.4. 6 dB Spectrum Bandwidth Measurement

### 5.4.1. Standard Applicable

According to §15.247(a) (2): For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

### 5.4.2. Measuring Instruments and Setting

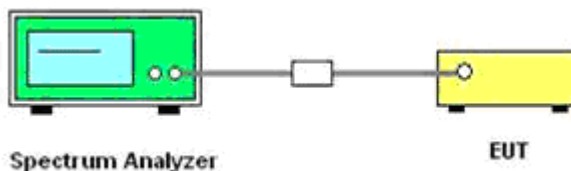
Please refer to section 6 of equipment's list in this report. The following table is the setting of the Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> RBW
Detector	Peak
Trace	Max Hold
Sweep Time	100ms

### 5.4.3. Test Procedures

1. The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
2. The resolution bandwidth and the video bandwidth were set according to KDB558074.
3. Measured the spectrum width with power higher than 6dB below carrier.

### 5.4.4. Test Setup Layout



### 5.4.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

## 5.4.6. Test Result of 6dB Spectrum Bandwidth

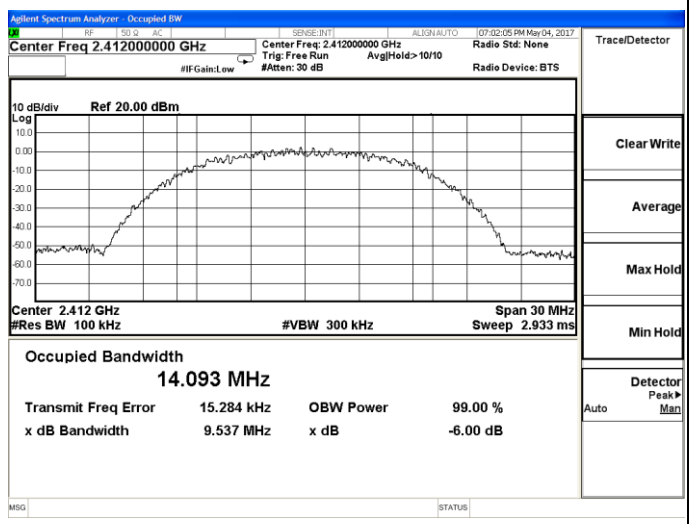
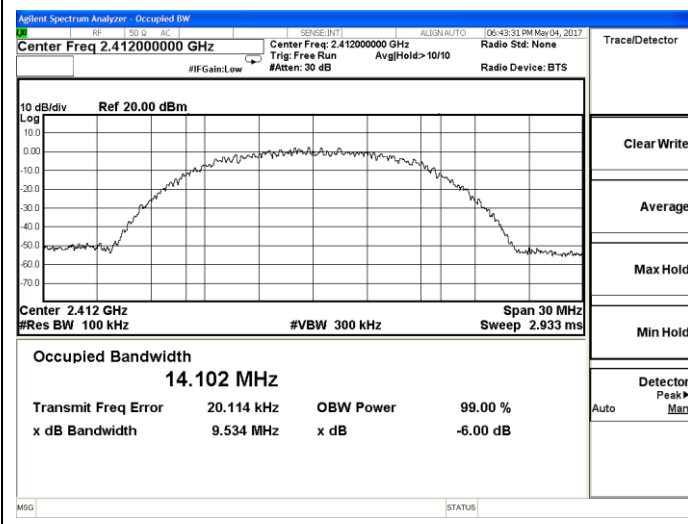
Temperature	25°C	Humidity	60%
Test Engineer	Aking Jin	Configurations	802.11b/g/n

Test Mode	Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Limits (MHz)	Verdict
			Chain 0	Chain 1		
IEEE 802.11b	1	2412	9.534	9.537	≥0.500	PASS
	6	2437	9.534	9.530		
	11	2462	9.538	9.530		
IEEE 802.11g	1	2412	16.60	16.59	≥0.500	PASS
	6	2437	16.61	16.60		
	11	2462	16.61	16.61		
IEEE 802.11n HT20	1	2412	17.84	17.84	≥0.500	PASS
	6	2437	17.84	17.84		
	11	2462	17.82	17.82		
IEEE 802.11n HT40	3	2422	36.46	36.50	≥0.500	PASS
	6	2437	36.50	36.51		
	9	2452	36.48	36.50		

*Remark:*

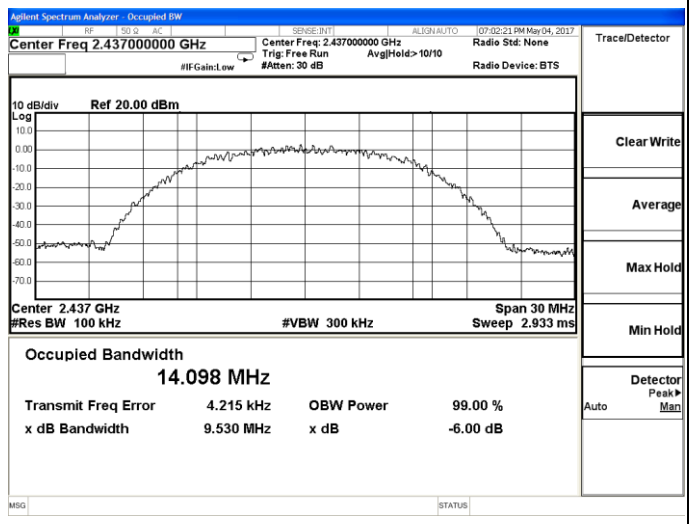
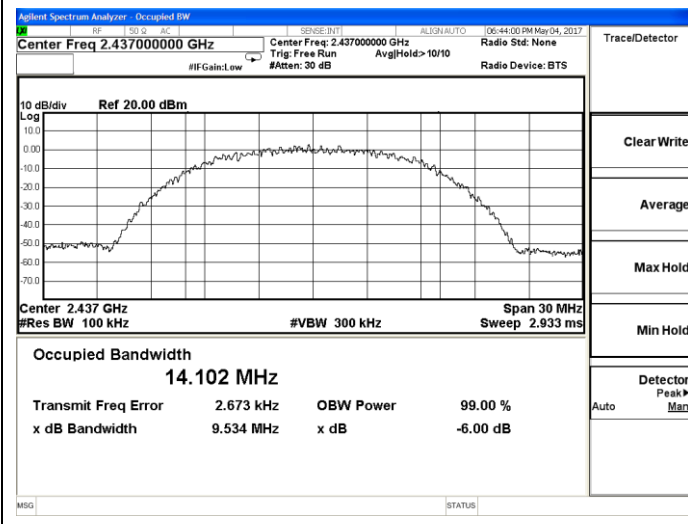
1. Measured output power at difference data rate for each mode and recorded worst case for each mode.
2. Test results including cable loss;
3. Worst case data at 1Mbps at IEEE 802.11b; 6Mbps at IEEE 802.11g; 6.5Mbps at IEEE 802.11n HT20; 13.5Mbps at IEEE 802.11n HT40;
4. please refer to following plots;

6 dB Bandwidth
IEEE 802.11b



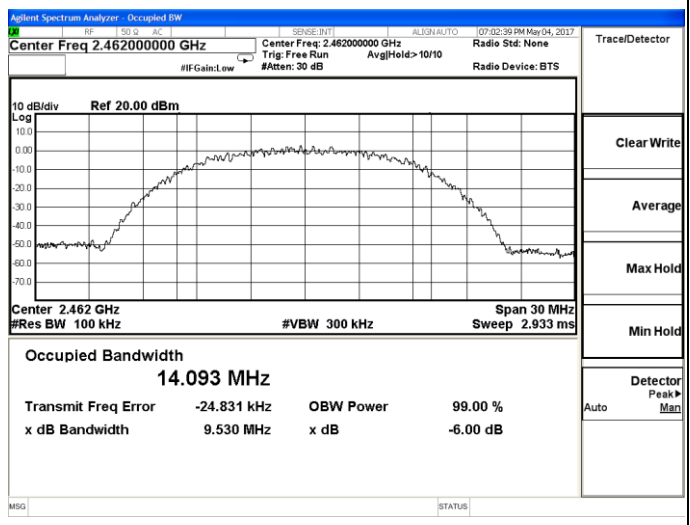
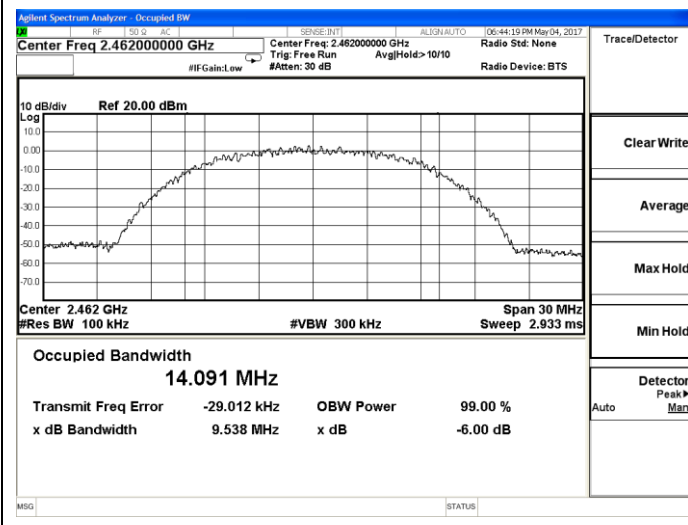
Chain 0-Channel 1 / 2412 MHz

Chain 1-Channel 1 / 2412 MHz



Chain 0-Channel 6 / 2437 MHz

Chain 1-Channel 6 / 2437 MHz

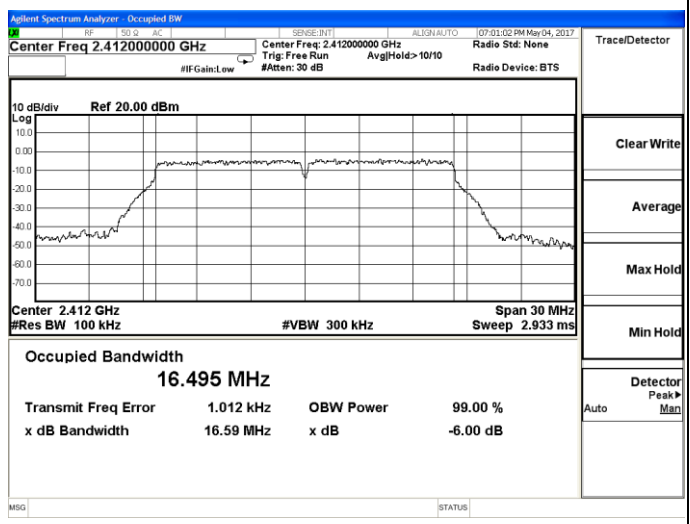
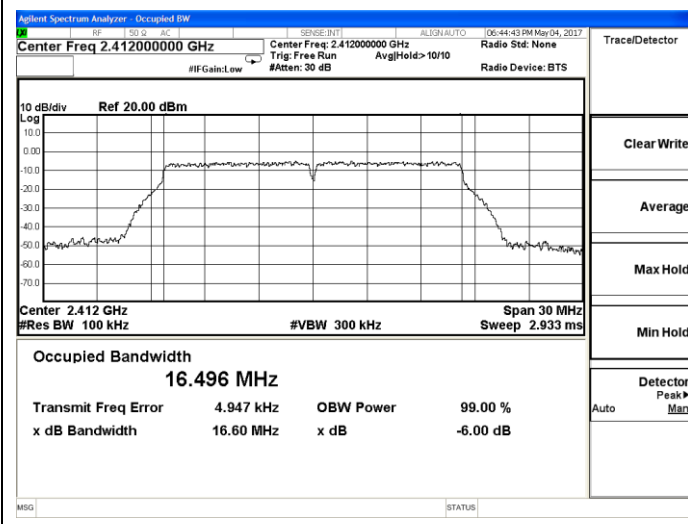


Chain 0-Channel 11 / 2462 MHz

Chain 1-Channel 11 / 2462 MHz

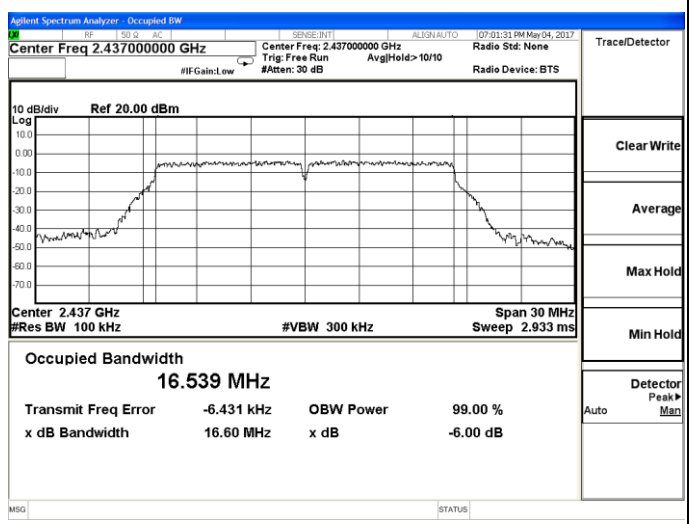
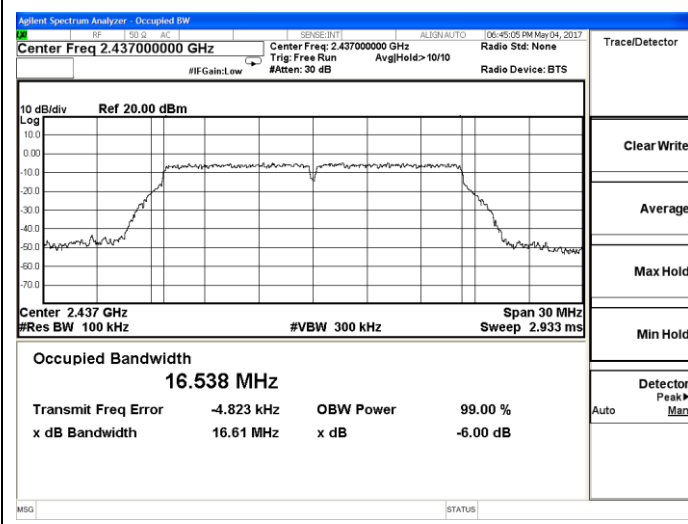


6 dB Bandwidth  
IEEE 802.11g



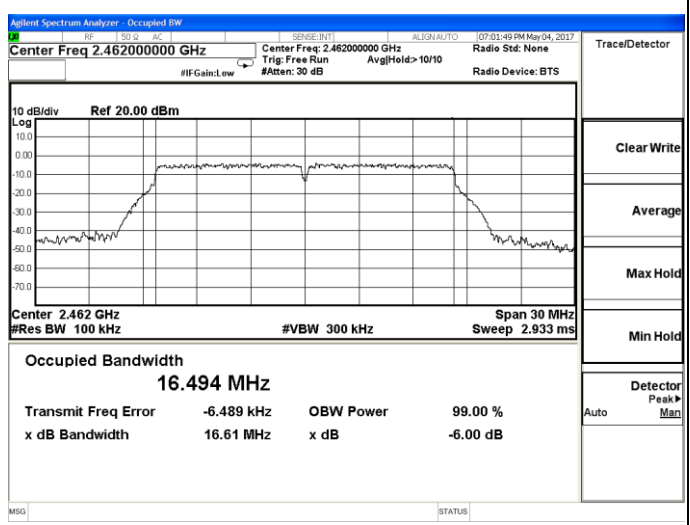
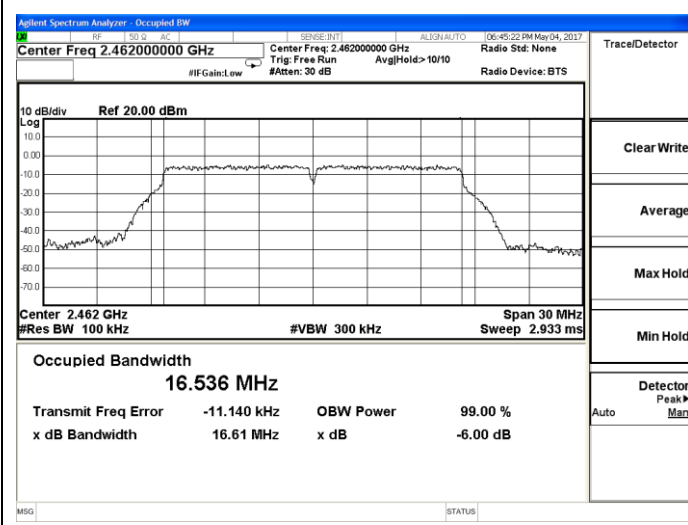
Chain 0-Channel 1 / 2412 MHz

Chain 1-Channel 1 / 2412 MHz



Chain 0-Channel 6 / 2437 MHz

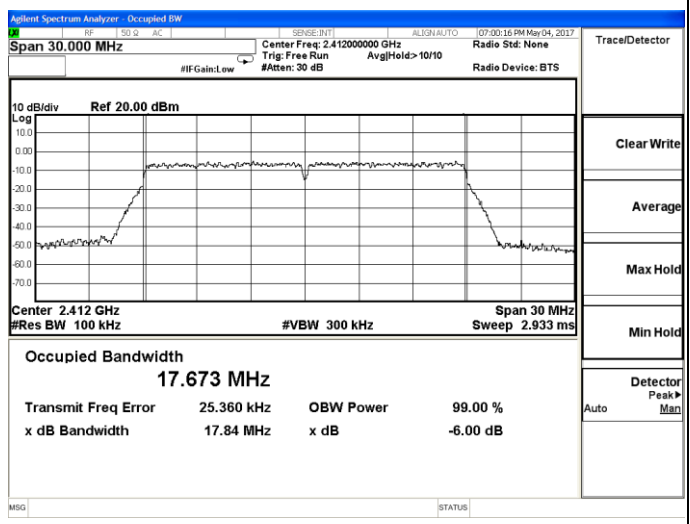
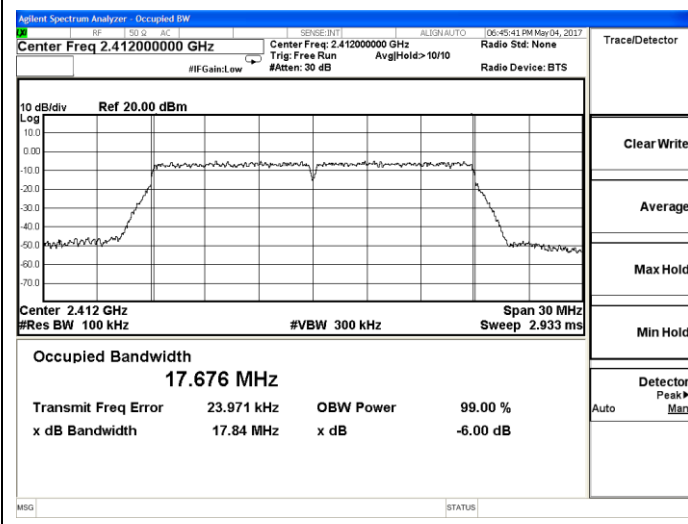
Chain 1-Channel 6 / 2437 MHz



Chain 0-Channel 11 / 2462 MHz

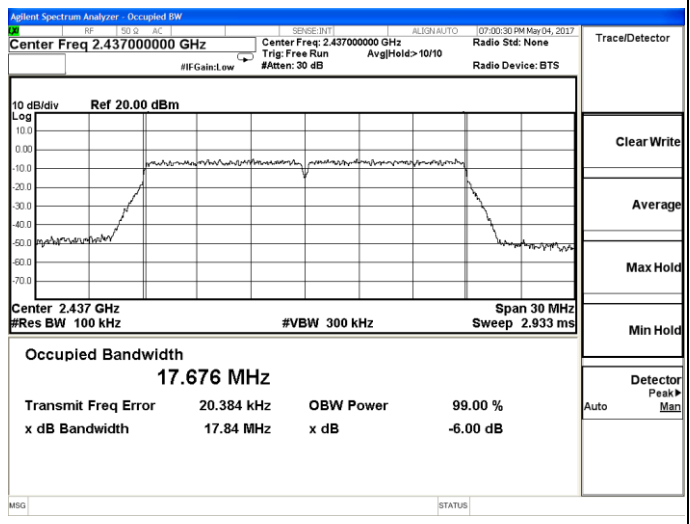
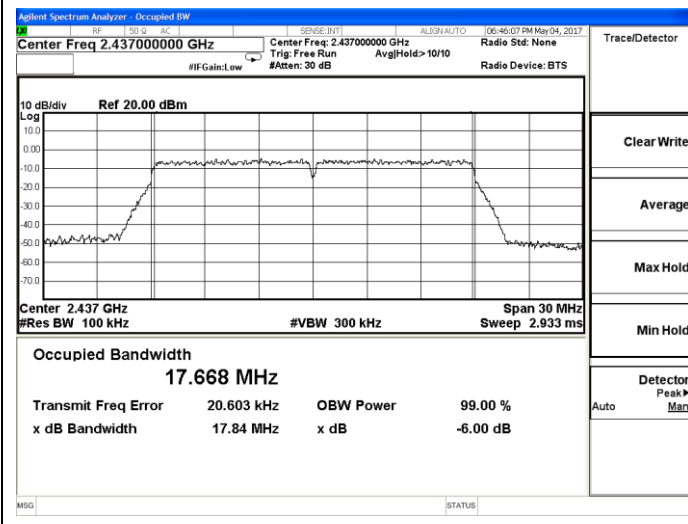
Chain 1-Channel 11 / 2462 MHz

6 dB Bandwidth  
IEEE 802.11n HT20



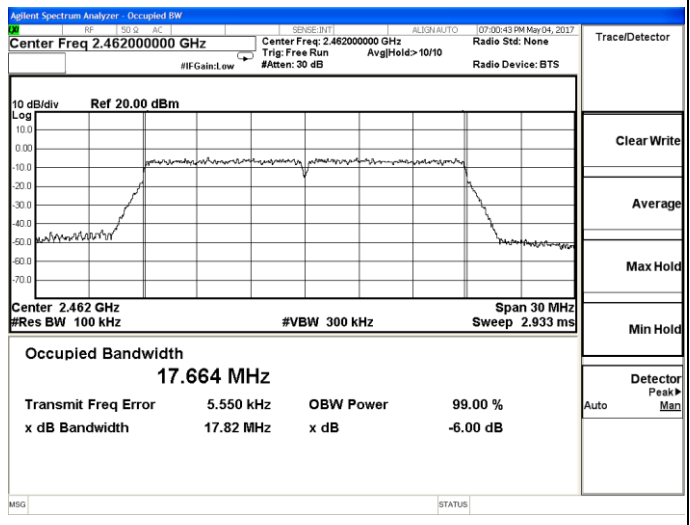
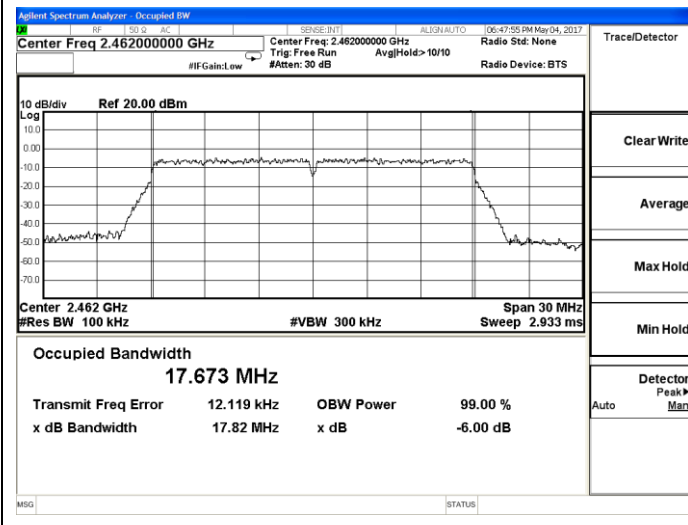
Chain 0-Channel 1 / 2412 MHz

Chain 1-Channel 1 / 2412 MHz



Chain 0-Channel 6 / 2437 MHz

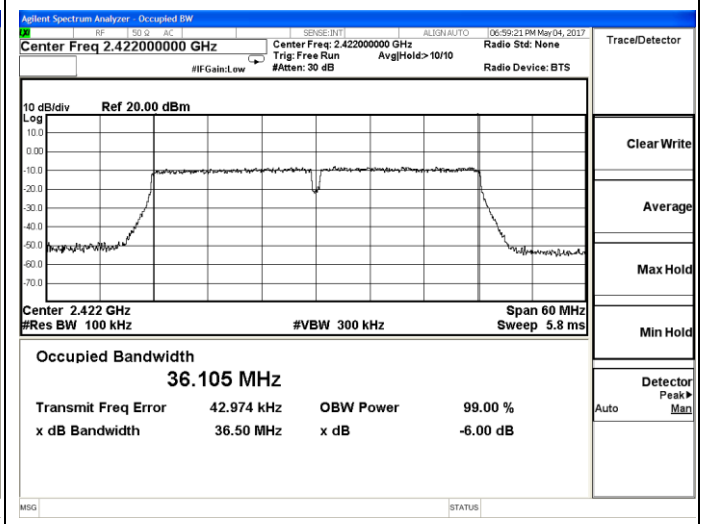
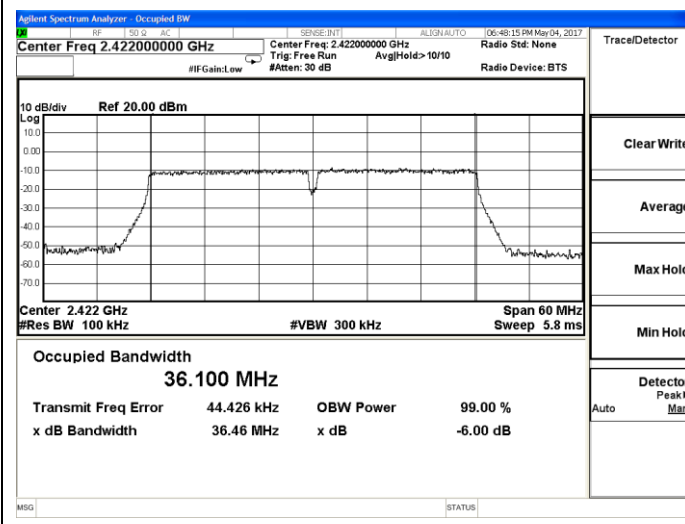
Chain 1-Channel 6 / 2437 MHz



Chain 0-Channel 11 / 2462 MHz

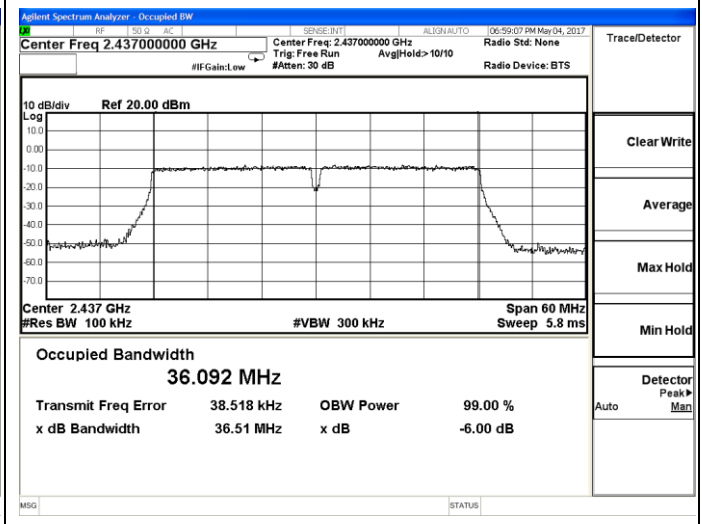
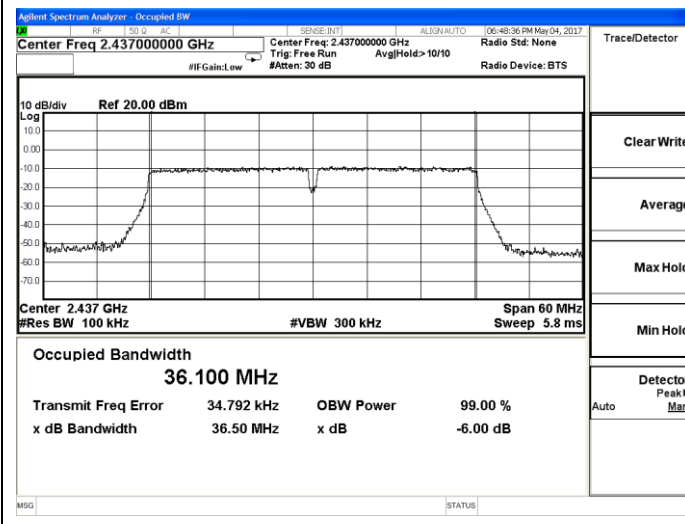
Chain 1-Channel 11 / 2462 MHz

6 dB Bandwidth  
IEEE 802.11n HT40



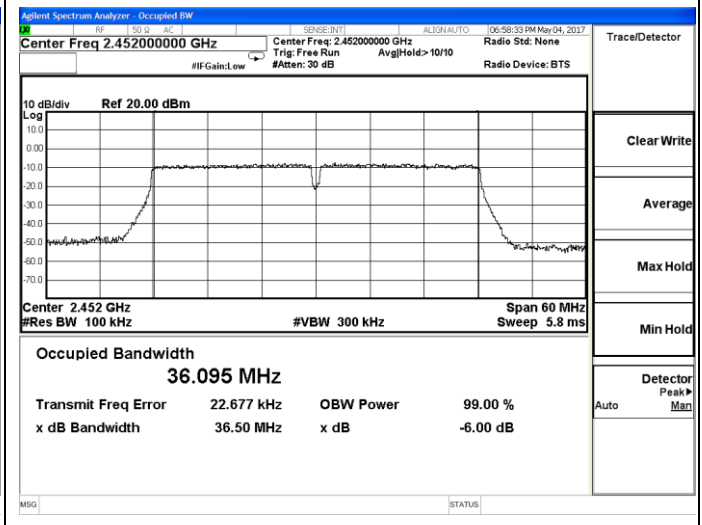
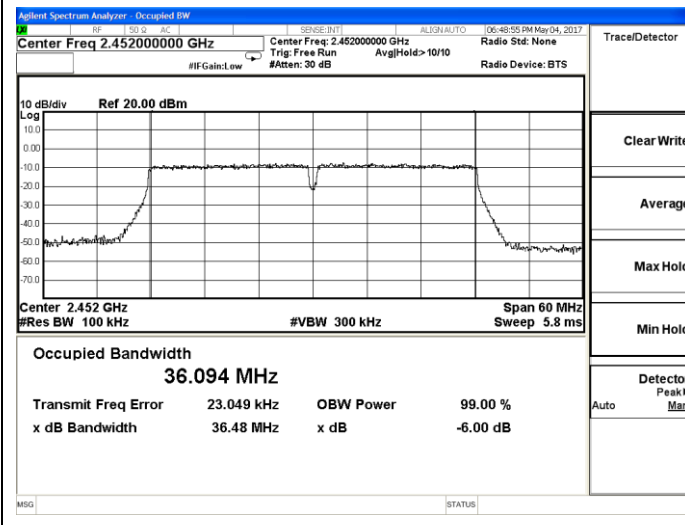
Chain 0-Channel 3 / 2422 MHz

Chain 1-Channel 3 / 2422 MHz



Chain 0-Channel 6 / 2437 MHz

Chain 1-Channel 6 / 2437 MHz



Chain 0-Channel 9 / 2452 MHz

Chain 1-Channel 9 / 2452 MHz

### 5.5. Radiated Emissions Measurement

#### 5.5.1. Standard Applicable

15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
\1\ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(\2\)
13.36-13.41			

\1\ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

\2\ Above 38.6

According to §15.247 (d): 20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (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

### 5.5.2. Measuring Instruments and Setting

Please refer to section 6 of equipments list in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP/AVG
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP/AVG
Start ~ Stop Frequency	30MHz~1000MHz / RB 100kHz for QP

### 5.5.3. Test Procedures

#### 1) Sequence of testing 9 kHz to 30 MHz

##### **Setup:**

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.

--- If the EUT is a floor standing device, it is placed on the ground.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions.

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

##### **Premeasurement:**

--- The turntable rotates from 0° to 315° using 45° steps.

--- The antenna height is 0.8 meter.

--- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

##### **Final measurement:**

--- Identified emissions during the premeasurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).

--- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.

--- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

## 2) Sequence of testing 30 MHz to 1 GHz

### Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

### Premeasurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna is polarized vertical and horizontal.
- The antenna height changes from 1 to 3 meter.
- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

### Final measurement:

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position ( $\pm 45^\circ$ ) and antenna movement between 1 and 4 meter.
- The final measurement will be done with QP detector with an EMI receiver.
- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

### 3) Sequence of testing 1 GHz to 18 GHz

#### Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

#### Premeasurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna is polarized vertical and horizontal.
- The antenna height scan range is 1 meter to 2.5 meter.
- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

#### Final measurement:

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position ( $\pm 45^\circ$ ) and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.
- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.



#### 4) Sequence of testing above 18 GHz

##### Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 1 meter.
- The EUT was set into operation.

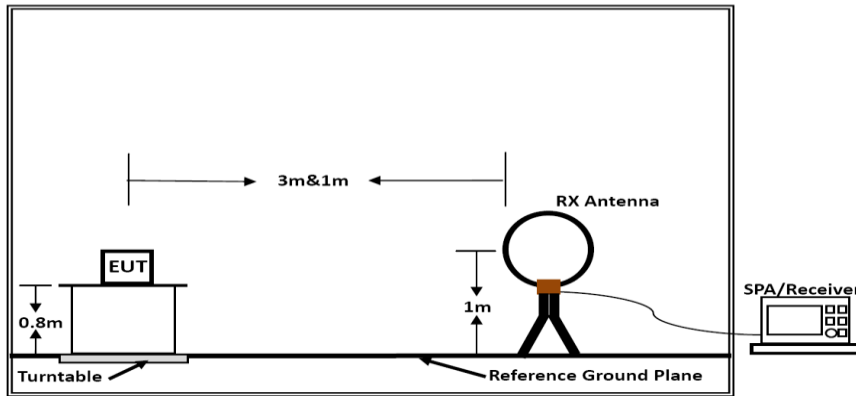
##### Premeasurement:

- The antenna is moved spherical over the EUT in different polarisations of the antenna.

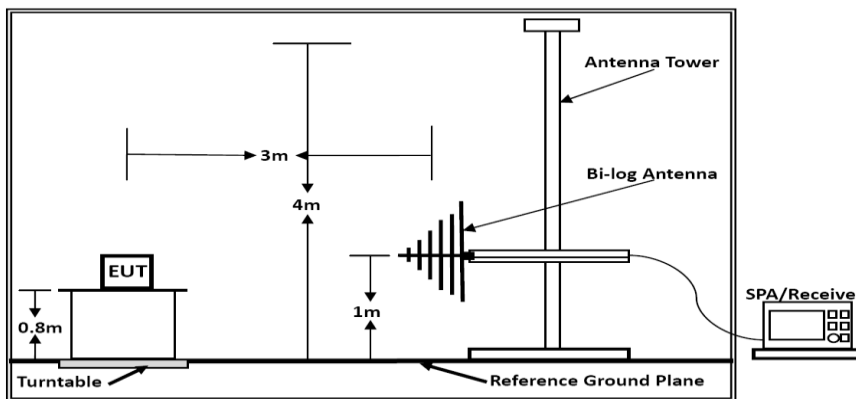
##### Final measurement:

- The final measurement will be performed at the position and antenna orientation for all detected emissions that were found during the premeasurements with Peak and Average detector.
- The final levels, frequency, measuring time, bandwidth, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

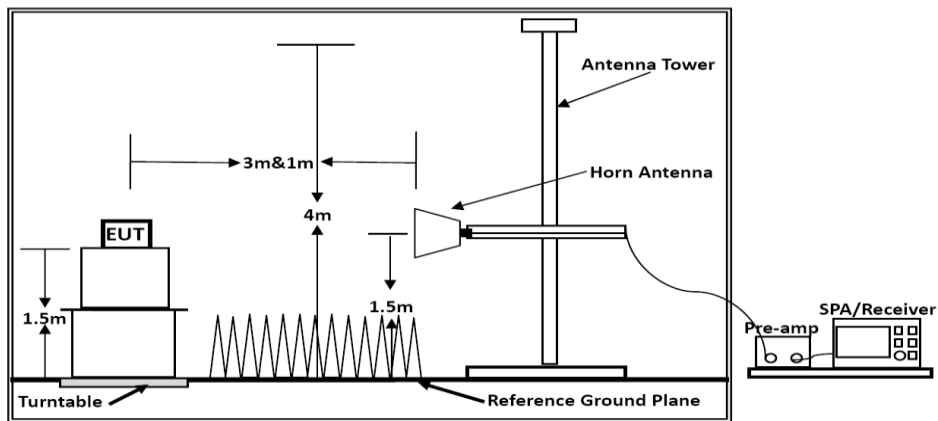
5.5.4. Test Setup Layout



Below 30MHz



Below 1GHz



Above 1GHz

Above 10 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from 3m to 1.5m.

Distance extrapolation factor =  $20 \log (\text{specific distance [3m]} / \text{test distance [1.5m]})$  (dB);  
Limit line = specific limits (dBuV) + distance extrapolation factor [6 dB].

5.5.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.5.6. Results of Radiated Emissions (9 KHz~30MHz)

Temperature	25°C	Humidity	60%
Test Engineer	Aking Jin	Configurations	802.11b/g/n

Freq. (MHz)	Level (dBuV)	Over Limit (dB)	Over Limit (dBuV)	Remark
-	-	-	-	See Note

Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

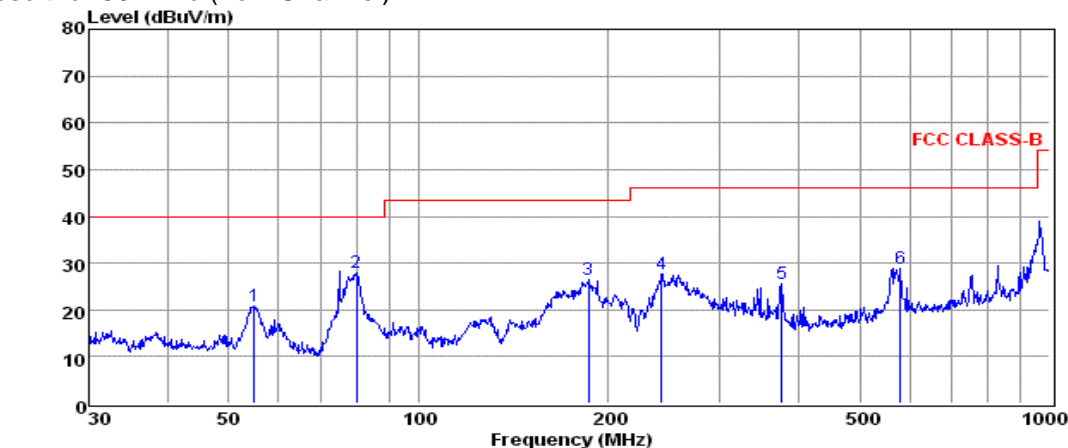
Distance extrapolation factor = 40 log (specific distance / test distance) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

5.5.7. Results of Radiated Emissions (30MHz~1GHz)

Temperature	25°C	Humidity	60%
Test Engineer	Aking Jin	Configurations	802.11b (Low CH)

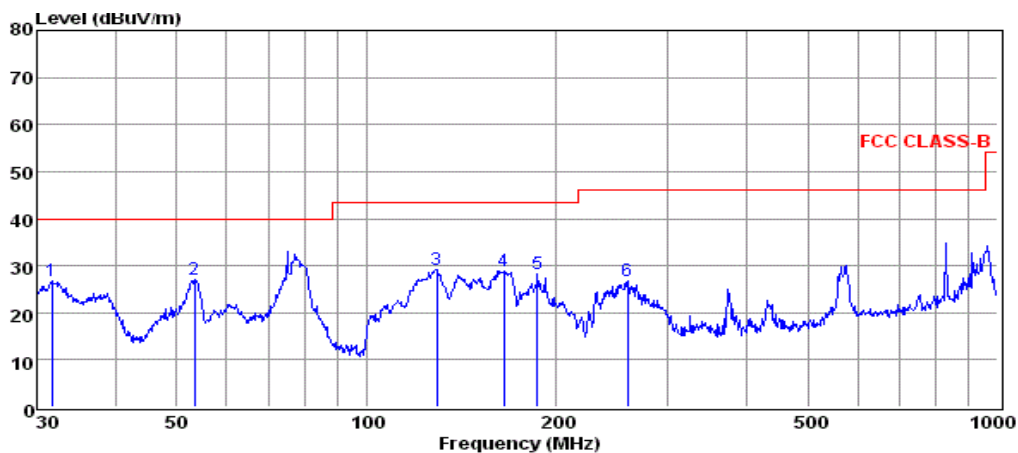
Test result for 802.11b (Low Channel)



pol: HORIZONTAL

	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	54.83	7.44	0.46	13.03	20.93	40.00	-19.07	QP
2	79.80	18.73	0.65	8.51	27.89	40.00	-12.11	QP
3	185.79	15.46	0.70	10.19	26.35	43.50	-17.15	QP
4	242.53	14.75	0.90	12.08	27.73	46.00	-18.27	QP
5	375.94	9.91	1.10	14.56	25.57	46.00	-20.43	QP
6	580.70	9.37	1.44	18.09	28.90	46.00	-17.10	QP

Note: 1. All readings are Quasi-peak values.  
 2. Measured= Reading + Antenna Factor + Cable Loss  
 3. The emission that are 20db below the official limit are not reported



pol:

VERTICAL

	Freq MHz	Reading dBuV	CabLos dB	Antfac dB/m	Measured dBuV/m	Limit dBuV/m	Over dB	Remark
1	31.73	14.05	0.37	12.32	26.74	40.00	-13.26	QP
2	53.32	13.52	0.46	13.10	27.08	40.00	-12.92	QP
3	129.01	19.53	0.67	9.08	29.28	43.50	-14.22	QP
4	164.91	19.14	0.86	8.82	28.82	43.50	-14.68	QP
5	186.44	17.05	0.98	10.25	28.28	43.50	-15.22	QP
6	259.23	13.85	1.01	12.05	26.91	46.00	-19.09	QP

Note: 1. All readings are Quasi-peak values.  
 2. Measured= Reading + Antenna Factor + Cable Loss  
 3. The emission that ate 20db bllow the official limit are not reported

Note:

- 1). Pre-scan all mode and recorded the worst case results in this report (802.11b (Low Channel)). Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 2). Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

5.5.8. Results for Radiated Emissions (Above 1GHz)

Please refer to the following page.

## The result for 802.11b Channel 1 / 2412MHz

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4824.00	60.45	33.06	35.04	3.94	62.41	74	-11.59	Peak	Horizontal
4824.00	43.52	33.06	35.04	3.94	45.48	54	-8.52	Average	Horizontal
4824.00	56.81	33.06	35.04	3.94	58.77	74	-15.23	Peak	Vertical
4824.00	43.14	33.06	35.04	3.94	45.10	54	-8.90	Average	Vertical
7236.00	50.06	34.25	36.11	4.45	52.65	74	-21.35	Peak	Horizontal
7236.00	38.73	34.25	36.11	4.45	41.32	54	-12.68	Average	Horizontal
7236.00	48.56	34.25	36.11	4.45	51.15	74	-22.85	Peak	Vertical
7236.00	38.90	34.25	36.11	4.45	41.49	54	-12.51	Average	Vertical
9648.00	49.58	35.14	37.23	4.62	52.11	74	-21.89	Peak	Horizontal
9648.00	38.67	35.14	37.23	4.62	41.20	54	-12.80	Average	Horizontal
9648.00	51.15	35.14	37.23	4.62	53.68	74	-20.32	Peak	Vertical
9648.00	40.02	35.14	37.23	4.62	42.55	54	-11.45	Average	Vertical
12060.00	48.77	36.11	38.14	5.21	51.95	74	-22.05	Peak	Horizontal
12060.00	37.02	36.11	38.14	5.21	40.20	54	-13.80	Average	Horizontal
12060.00	51.00	36.11	38.14	5.21	54.18	74	-19.82	Peak	Vertical
12060.00	36.98	36.11	38.14	5.21	40.16	54	-13.84	Average	Vertical
14472.00	47.09	37.18	39.21	5.59	50.65	74	-23.35	Peak	Horizontal
14472.00	35.89	37.18	39.21	5.59	39.45	54	-14.55	Average	Horizontal
14472.00	49.35	37.18	39.21	5.59	52.91	74	-21.09	Peak	Vertical
14472.00	35.97	37.18	39.21	5.59	39.53	54	-14.47	Average	Vertical
16884.00	47.20	38.22	40.17	5.91	51.16	74	-22.84	Peak	Horizontal
16884.00	34.20	38.22	40.17	5.91	38.16	54	-15.84	Average	Horizontal
16884.00	48.80	38.22	40.17	5.91	52.76	74	-21.24	Peak	Vertical
16884.00	37.26	38.22	40.17	5.91	41.22	54	-12.78	Average	Vertical

## The result for 802.11b Channel 6 / 2437MHz

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4874.00	59.36	33.16	35.15	3.96	61.33	74	-12.67	Peak	Horizontal
4874.00	45.17	33.16	35.15	3.96	47.14	54	-6.86	Average	Horizontal
4874.00	56.43	33.16	35.15	3.96	58.40	74	-15.60	Peak	Vertical
4874.00	41.52	33.16	35.15	3.96	43.49	54	-10.51	Average	Vertical
7311.00	51.35	34.32	36.19	4.48	53.96	74	-20.04	Peak	Horizontal
7311.00	38.65	34.32	36.19	4.48	41.26	54	-12.74	Average	Horizontal
7311.00	48.22	34.32	36.19	4.48	50.83	74	-23.17	Peak	Vertical
7311.00	37.75	34.32	36.19	4.48	40.36	54	-13.64	Average	Vertical
9748.00	49.27	35.23	37.31	4.65	51.84	74	-22.16	Peak	Horizontal
9748.00	38.36	35.23	37.31	4.65	40.93	54	-13.07	Average	Horizontal
9748.00	49.46	35.23	37.31	4.65	52.03	74	-21.97	Peak	Vertical
9748.00	38.13	35.23	37.31	4.65	40.70	54	-13.30	Average	Vertical
12185.00	50.72	36.19	38.26	5.26	53.91	74	-20.09	Peak	Horizontal
12185.00	35.45	36.19	38.26	5.26	38.64	54	-15.36	Average	Horizontal
12185.00	50.69	36.19	38.26	5.26	53.88	74	-20.12	Peak	Vertical
12185.00	38.86	36.19	38.26	5.26	42.05	54	-11.95	Average	Vertical
14622.00	50.00	37.27	39.29	5.63	53.61	74	-20.39	Peak	Horizontal
14622.00	35.00	37.27	39.29	5.63	38.61	54	-15.39	Average	Horizontal
14622.00	49.49	37.27	39.29	5.63	53.10	74	-20.90	Peak	Vertical
14622.00	35.38	37.27	39.29	5.63	38.99	54	-15.01	Average	Vertical
17059.00	49.09	38.30	40.25	5.95	53.09	74	-20.91	Peak	Horizontal
17059.00	37.78	38.30	40.25	5.95	41.78	54	-12.22	Average	Horizontal
17059.00	50.16	38.30	40.25	5.95	54.16	74	-19.84	Peak	Vertical
17059.00	34.19	38.30	40.25	5.95	38.19	54	-15.81	Average	Vertical

The result for 802.11b Channel 11 / 2462MHz

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4924.00	55.47	33.26	35.14	3.98	57.57	74	-16.43	Peak	Horizontal
4924.00	43.06	33.26	35.14	3.98	45.16	54	-8.84	Average	Horizontal
4924.00	56.22	33.26	35.14	3.98	58.32	74	-15.68	Peak	Vertical
4924.00	41.32	33.26	35.14	3.98	43.42	54	-10.58	Average	Vertical
7386.00	49.15	34.39	36.27	4.52	51.79	74	-22.21	Peak	Horizontal
7386.00	39.15	34.39	36.27	4.52	41.79	54	-12.21	Average	Horizontal
7386.00	47.78	34.39	36.27	4.52	50.42	74	-23.58	Peak	Vertical
7386.00	38.46	34.39	36.27	4.52	41.10	54	-12.90	Average	Vertical
9848.00	50.35	35.31	37.38	4.69	52.97	74	-21.03	Peak	Horizontal
9848.00	35.22	35.31	37.38	4.69	37.84	54	-16.16	Average	Horizontal
9848.00	48.10	35.31	37.38	4.69	50.72	74	-23.28	Peak	Vertical
9848.00	39.99	35.31	37.38	4.69	42.61	54	-11.39	Average	Vertical
12310.00	48.61	36.28	38.33	5.31	51.87	74	-22.13	Peak	Horizontal
12310.00	36.95	36.28	38.33	5.31	40.21	54	-13.79	Average	Horizontal
12310.00	49.33	36.28	38.33	5.31	52.59	74	-21.41	Peak	Vertical
12310.00	37.27	36.28	38.33	5.31	40.53	54	-13.47	Average	Vertical
14772.00	48.10	37.33	39.37	5.68	51.74	74	-22.26	Peak	Horizontal
14772.00	38.23	37.33	39.37	5.68	41.87	54	-12.13	Average	Horizontal
14772.00	49.06	37.33	39.37	5.68	52.70	74	-21.30	Peak	Vertical
14772.00	36.17	37.33	39.37	5.68	39.81	54	-14.19	Average	Vertical
17234.00	49.28	38.38	40.32	5.99	53.33	74	-20.67	Peak	Horizontal
17234.00	38.21	38.38	40.32	5.99	42.26	54	-11.74	Average	Horizontal
17234.00	47.21	38.38	40.32	5.99	51.26	74	-22.74	Peak	Vertical
17234.00	37.39	38.38	40.32	5.99	41.44	54	-12.56	Average	Vertical

The result for 802.11g Channel 1 / 2412MHz

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4824.00	55.33	33.06	35.04	3.94	57.29	74	-16.71	Peak	Horizontal
4824.00	43.78	33.06	35.04	3.94	45.74	54	-8.26	Average	Horizontal
4824.00	56.63	33.06	35.04	3.94	58.59	74	-15.41	Peak	Vertical
4824.00	40.18	33.06	35.04	3.94	42.14	54	-11.86	Average	Vertical
7236.00	50.20	34.25	36.11	4.45	52.79	74	-21.21	Peak	Horizontal
7236.00	37.53	34.25	36.11	4.45	40.12	54	-13.88	Average	Horizontal
7236.00	46.75	34.25	36.11	4.45	49.34	74	-24.66	Peak	Vertical
7236.00	38.51	34.25	36.11	4.45	41.10	54	-12.90	Average	Vertical
9648.00	47.00	35.14	37.23	4.62	49.53	74	-24.47	Peak	Horizontal
9648.00	38.82	35.14	37.23	4.62	41.35	54	-12.65	Average	Horizontal
9648.00	51.70	35.14	37.23	4.62	54.23	74	-19.77	Peak	Vertical
9648.00	36.65	35.14	37.23	4.62	39.18	54	-14.82	Average	Vertical
12060.00	48.47	36.11	38.14	5.21	51.65	74	-22.35	Peak	Horizontal
12060.00	36.95	36.11	38.14	5.21	40.13	54	-13.87	Average	Horizontal
12060.00	50.22	36.11	38.14	5.21	53.40	74	-20.60	Peak	Vertical
12060.00	37.57	36.11	38.14	5.21	40.75	54	-13.25	Average	Vertical
14472.00	45.59	37.18	39.21	5.59	49.15	74	-24.85	Peak	Horizontal
14472.00	35.31	37.18	39.21	5.59	38.87	54	-15.13	Average	Horizontal
14472.00	50.22	37.18	39.21	5.59	53.78	74	-20.22	Peak	Vertical
14472.00	36.19	37.18	39.21	5.59	39.75	54	-14.25	Average	Vertical
16884.00	47.53	38.22	40.17	5.91	51.49	74	-22.51	Peak	Horizontal
16884.00	35.17	38.22	40.17	5.91	39.13	54	-14.87	Average	Horizontal
16884.00	49.52	38.22	40.17	5.91	53.48	74	-20.52	Peak	Vertical
16884.00	36.64	38.22	40.17	5.91	40.60	54	-13.40	Average	Vertical

The result for 802.11g Channel 6 / 2437MHz

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4874.00	57.41	33.16	35.15	3.96	59.38	74	-14.62	Peak	Horizontal
4874.00	44.59	33.16	35.15	3.96	46.56	54	-7.44	Average	Horizontal
4874.00	57.37	33.16	35.15	3.96	59.34	74	-14.66	Peak	Vertical
4874.00	43.60	33.16	35.15	3.96	45.57	54	-8.43	Average	Vertical
7311.00	51.46	34.32	36.19	4.48	54.07	74	-19.93	Peak	Horizontal
7311.00	37.70	34.32	36.19	4.48	40.31	54	-13.69	Average	Horizontal
7311.00	48.52	34.32	36.19	4.48	51.13	74	-22.87	Peak	Vertical
7311.00	37.31	34.32	36.19	4.48	39.92	54	-14.08	Average	Vertical
9748.00	51.43	35.23	37.31	4.65	54.00	74	-20.00	Peak	Horizontal
9748.00	38.73	35.23	37.31	4.65	41.30	54	-12.70	Average	Horizontal
9748.00	51.11	35.23	37.31	4.65	53.68	74	-20.32	Peak	Vertical
9748.00	37.26	35.23	37.31	4.65	39.83	54	-14.17	Average	Vertical
12185.00	50.58	36.19	38.26	5.26	53.77	74	-20.23	Peak	Horizontal
12185.00	36.13	36.19	38.26	5.26	39.32	54	-14.68	Average	Horizontal
12185.00	50.03	36.19	38.26	5.26	53.22	74	-20.78	Peak	Vertical
12185.00	38.04	36.19	38.26	5.26	41.23	54	-12.77	Average	Vertical
14622.00	47.91	37.27	39.29	5.63	51.52	74	-22.48	Peak	Horizontal
14622.00	36.12	37.27	39.29	5.63	39.73	54	-14.27	Average	Horizontal
14622.00	47.51	37.27	39.29	5.63	51.12	74	-22.88	Peak	Vertical
14622.00	37.40	37.27	39.29	5.63	41.01	54	-12.99	Average	Vertical
17059.00	47.34	38.30	40.25	5.95	51.34	74	-22.66	Peak	Horizontal
17059.00	35.41	38.30	40.25	5.95	39.41	54	-14.59	Average	Horizontal
17059.00	50.38	38.30	40.25	5.95	54.38	74	-19.62	Peak	Vertical
17059.00	34.71	38.30	40.25	5.95	38.71	54	-15.29	Average	Vertical

The result for 802.11g Channel 11 / 2462MHz

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4924.00	58.40	33.26	35.14	3.98	60.50	74	-13.50	Peak	Horizontal
4924.00	43.24	33.26	35.14	3.98	45.34	54	-8.66	Average	Horizontal
4924.00	54.09	33.26	35.14	3.98	56.19	74	-17.81	Peak	Vertical
4924.00	37.78	33.26	35.14	3.98	39.88	54	-14.12	Average	Vertical
7386.00	49.81	34.39	36.27	4.52	52.45	74	-21.55	Peak	Horizontal
7386.00	39.10	34.39	36.27	4.52	41.74	54	-12.26	Average	Horizontal
7386.00	46.52	34.39	36.27	4.52	49.16	74	-24.84	Peak	Vertical
7386.00	37.58	34.39	36.27	4.52	40.22	54	-13.78	Average	Vertical
9848.00	52.02	35.31	37.38	4.69	54.64	74	-19.36	Peak	Horizontal
9848.00	35.36	35.31	37.38	4.69	37.98	54	-16.02	Average	Horizontal
9848.00	50.44	35.31	37.38	4.69	53.06	74	-20.94	Peak	Vertical
9848.00	39.49	35.31	37.38	4.69	42.11	54	-11.89	Average	Vertical
12310.00	48.62	36.28	38.33	5.31	51.88	74	-22.12	Peak	Horizontal
12310.00	36.47	36.28	38.33	5.31	39.73	54	-14.27	Average	Horizontal
12310.00	50.07	36.28	38.33	5.31	53.33	74	-20.67	Peak	Vertical
12310.00	40.25	36.28	38.33	5.31	43.51	54	-10.49	Average	Vertical
14772.00	50.47	37.33	39.37	5.68	54.11	74	-19.89	Peak	Horizontal
14772.00	38.59	37.33	39.37	5.68	42.23	54	-11.77	Average	Horizontal
14772.00	49.29	37.33	39.37	5.68	52.93	74	-21.07	Peak	Vertical
14772.00	37.63	37.33	39.37	5.68	41.27	54	-12.73	Average	Vertical
17234.00	49.07	38.38	40.32	5.99	53.12	74	-20.88	Peak	Horizontal
17234.00	34.64	38.38	40.32	5.99	38.69	54	-15.31	Average	Horizontal
17234.00	49.71	38.38	40.32	5.99	53.76	74	-20.24	Peak	Vertical
17234.00	38.78	38.38	40.32	5.99	42.83	54	-11.17	Average	Vertical

The result for 802.11n HT20 Channel 1 / 2412MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4824.00	57.79	33.06	35.04	3.94	59.75	74	-14.25	Peak	Horizontal
4824.00	42.60	33.06	35.04	3.94	44.56	54	-9.44	Average	Horizontal
4824.00	56.16	33.06	35.04	3.94	58.12	74	-15.88	Peak	Vertical
4824.00	41.95	33.06	35.04	3.94	43.91	54	-10.09	Average	Vertical
7236.00	48.15	34.25	36.11	4.45	50.74	74	-23.26	Peak	Horizontal
7236.00	39.00	34.25	36.11	4.45	41.59	54	-12.41	Average	Horizontal
7236.00	49.09	34.25	36.11	4.45	51.68	74	-22.32	Peak	Vertical
7236.00	36.37	34.25	36.11	4.45	38.96	54	-15.04	Average	Vertical
9648.00	48.62	35.14	37.23	4.62	51.15	74	-22.85	Peak	Horizontal
9648.00	37.32	35.14	37.23	4.62	39.85	54	-14.15	Average	Horizontal
9648.00	51.24	35.14	37.23	4.62	53.77	74	-20.23	Peak	Vertical
9648.00	40.26	35.14	37.23	4.62	42.79	54	-11.21	Average	Vertical
12060.00	48.24	36.11	38.14	5.21	51.42	74	-22.58	Peak	Horizontal
12060.00	37.82	36.11	38.14	5.21	41.00	54	-13.00	Average	Horizontal
12060.00	49.22	36.11	38.14	5.21	52.40	74	-21.60	Peak	Vertical
12060.00	37.54	36.11	38.14	5.21	40.72	54	-13.28	Average	Vertical
14472.00	47.36	37.18	39.21	5.59	50.92	74	-23.08	Peak	Horizontal
14472.00	34.10	37.18	39.21	5.59	37.66	54	-16.34	Average	Horizontal
14472.00	49.86	37.18	39.21	5.59	53.42	74	-20.58	Peak	Vertical
14472.00	36.76	37.18	39.21	5.59	40.32	54	-13.68	Average	Vertical
16884.00	47.54	38.22	40.17	5.91	51.50	74	-22.50	Peak	Horizontal
16884.00	35.67	38.22	40.17	5.91	39.63	54	-14.37	Average	Horizontal
16884.00	48.78	38.22	40.17	5.91	52.74	74	-21.26	Peak	Vertical
16884.00	35.90	38.22	40.17	5.91	39.86	54	-14.14	Average	Vertical

The result for 802.11n HT20 Channel 6 / 2437MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4874.00	56.42	33.16	35.15	3.96	58.39	74	-15.61	Peak	Horizontal
4874.00	41.84	33.16	35.15	3.96	43.81	54	-10.19	Average	Horizontal
4874.00	55.89	33.16	35.15	3.96	57.86	74	-16.14	Peak	Vertical
4874.00	39.98	33.16	35.15	3.96	41.95	54	-12.05	Average	Vertical
7311.00	51.43	34.32	36.19	4.48	54.04	74	-19.96	Peak	Horizontal
7311.00	38.39	34.32	36.19	4.48	41.00	54	-13.00	Average	Horizontal
7311.00	50.21	34.32	36.19	4.48	52.82	74	-21.18	Peak	Vertical
7311.00	35.95	34.32	36.19	4.48	38.56	54	-15.44	Average	Vertical
9748.00	49.96	35.23	37.31	4.65	52.53	74	-21.47	Peak	Horizontal
9748.00	38.57	35.23	37.31	4.65	41.14	54	-12.86	Average	Horizontal
9748.00	50.08	35.23	37.31	4.65	52.65	74	-21.35	Peak	Vertical
9748.00	38.72	35.23	37.31	4.65	41.29	54	-12.71	Average	Vertical
12185.00	51.33	36.19	38.26	5.26	54.52	74	-19.48	Peak	Horizontal
12185.00	36.01	36.19	38.26	5.26	39.20	54	-14.80	Average	Horizontal
12185.00	49.78	36.19	38.26	5.26	52.97	74	-21.03	Peak	Vertical
12185.00	38.42	36.19	38.26	5.26	41.61	54	-12.39	Average	Vertical
14622.00	49.92	37.27	39.29	5.63	53.53	74	-20.47	Peak	Horizontal
14622.00	35.52	37.27	39.29	5.63	39.13	54	-14.87	Average	Horizontal
14622.00	47.60	37.27	39.29	5.63	51.21	74	-22.79	Peak	Vertical
14622.00	34.55	37.27	39.29	5.63	38.16	54	-15.84	Average	Vertical
17059.00	50.64	38.30	40.25	5.95	54.64	74	-19.36	Peak	Horizontal
17059.00	38.98	38.30	40.25	5.95	42.98	54	-11.02	Average	Horizontal
17059.00	49.07	38.30	40.25	5.95	53.07	74	-20.93	Peak	Vertical
17059.00	36.40	38.30	40.25	5.95	40.40	54	-13.60	Average	Vertical



The result for 802.11n HT20 Channel 11 / 2462MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4924.00	57.73	33.26	35.14	3.98	59.83	74	-14.17	Peak	Horizontal
4924.00	44.45	33.26	35.14	3.98	46.55	54	-7.45	Average	Horizontal
4924.00	60.03	33.26	35.14	3.98	62.13	74	-11.87	Peak	Vertical
4924.00	40.20	33.26	35.14	3.98	42.30	54	-11.70	Average	Vertical
7386.00	48.72	34.39	36.27	4.52	51.36	74	-22.64	Peak	Horizontal
7386.00	37.84	34.39	36.27	4.52	40.48	54	-13.52	Average	Horizontal
7386.00	49.82	34.39	36.27	4.52	52.46	74	-21.54	Peak	Vertical
7386.00	39.08	34.39	36.27	4.52	41.72	54	-12.28	Average	Vertical
9848.00	50.25	35.31	37.38	4.69	52.87	74	-21.13	Peak	Horizontal
9848.00	36.02	35.31	37.38	4.69	38.64	54	-15.36	Average	Horizontal
9848.00	49.26	35.31	37.38	4.69	51.88	74	-22.12	Peak	Vertical
9848.00	39.40	35.31	37.38	4.69	42.02	54	-11.98	Average	Vertical
12310.00	48.33	36.28	38.33	5.31	51.59	74	-22.41	Peak	Horizontal
12310.00	35.45	36.28	38.33	5.31	38.71	54	-15.29	Average	Horizontal
12310.00	49.02	36.28	38.33	5.31	52.28	74	-21.72	Peak	Vertical
12310.00	39.72	36.28	38.33	5.31	42.98	54	-11.02	Average	Vertical
14772.00	49.58	37.33	39.37	5.68	53.22	74	-20.78	Peak	Horizontal
14772.00	35.72	37.33	39.37	5.68	39.36	54	-14.64	Average	Horizontal
14772.00	50.26	37.33	39.37	5.68	53.90	74	-20.10	Peak	Vertical
14772.00	37.35	37.33	39.37	5.68	40.99	54	-13.01	Average	Vertical
17234.00	48.65	38.38	40.32	5.99	52.70	74	-21.30	Peak	Horizontal
17234.00	35.41	38.38	40.32	5.99	39.46	54	-14.54	Average	Horizontal
17234.00	49.27	38.38	40.32	5.99	53.32	74	-20.68	Peak	Vertical
17234.00	37.08	38.38	40.32	5.99	41.13	54	-12.87	Average	Vertical

The result for 802.11n HT40 Channel 3 / 2422MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4844.00	56.18	33.06	35.04	3.94	58.14	74	-15.86	Peak	Horizontal
4844.00	44.23	33.06	35.04	3.94	46.19	54	-7.81	Average	Horizontal
4844.00	55.48	33.06	35.04	3.94	57.44	74	-16.56	Peak	Vertical
4844.00	41.50	33.06	35.04	3.94	43.46	54	-10.54	Average	Vertical
7266.00	48.06	34.25	36.11	4.45	50.65	74	-23.35	Peak	Horizontal
7266.00	37.33	34.25	36.11	4.45	39.92	54	-14.08	Average	Horizontal
7266.00	48.86	34.25	36.11	4.45	51.45	74	-22.55	Peak	Vertical
7266.00	37.24	34.25	36.11	4.45	39.83	54	-14.17	Average	Vertical
9688.00	48.97	35.14	37.23	4.62	51.50	74	-22.50	Peak	Horizontal
9688.00	38.23	35.14	37.23	4.62	40.76	54	-13.24	Average	Horizontal
9688.00	52.06	35.14	37.23	4.62	54.59	74	-19.41	Peak	Vertical
9688.00	37.63	35.14	37.23	4.62	40.16	54	-13.84	Average	Vertical
12110.00	48.51	36.11	38.14	5.21	51.69	74	-22.31	Peak	Horizontal
12110.00	34.75	36.11	38.14	5.21	37.93	54	-16.07	Average	Horizontal
12110.00	49.67	36.11	38.14	5.21	52.85	74	-21.15	Peak	Vertical
12110.00	39.19	36.11	38.14	5.21	42.37	54	-11.63	Average	Vertical
14532.00	48.72	37.18	39.21	5.59	52.28	74	-21.72	Peak	Horizontal
14532.00	36.14	37.18	39.21	5.59	39.70	54	-14.30	Average	Horizontal
14532.00	48.45	37.18	39.21	5.59	52.01	74	-21.99	Peak	Vertical
14532.00	35.51	37.18	39.21	5.59	39.07	54	-14.93	Average	Vertical
16954.00	47.19	38.22	40.17	5.91	51.15	74	-22.85	Peak	Horizontal
16954.00	35.06	38.22	40.17	5.91	39.02	54	-14.98	Average	Horizontal
16954.00	50.20	38.22	40.17	5.91	54.16	74	-19.84	Peak	Vertical
16954.00	36.85	38.22	40.17	5.91	40.81	54	-13.19	Average	Vertical

The result for 802.11n HT40 Channel 6 / 2437MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4874.00	55.06	33.16	35.15	3.96	57.03	74	-16.97	Peak	Horizontal
4874.00	39.61	33.16	35.15	3.96	41.58	54	-12.42	Average	Horizontal
4874.00	52.11	33.16	35.15	3.96	54.08	74	-19.92	Peak	Vertical
4874.00	41.13	33.16	35.15	3.96	43.10	54	-10.90	Average	Vertical
7311.00	52.17	34.32	36.19	4.48	54.78	74	-19.22	Peak	Horizontal
7311.00	36.86	34.32	36.19	4.48	39.47	54	-14.53	Average	Horizontal
7311.00	47.52	34.32	36.19	4.48	50.13	74	-23.87	Peak	Vertical
7311.00	36.47	34.32	36.19	4.48	39.08	54	-14.92	Average	Vertical
9748.00	50.20	35.23	37.31	4.65	52.77	74	-21.23	Peak	Horizontal
9748.00	36.21	35.23	37.31	4.65	38.78	54	-15.22	Average	Horizontal
9748.00	51.70	35.23	37.31	4.65	54.27	74	-19.73	Peak	Vertical
9748.00	39.15	35.23	37.31	4.65	41.72	54	-12.28	Average	Vertical
12185.00	49.27	36.19	38.26	5.26	52.46	74	-21.54	Peak	Horizontal
12185.00	36.13	36.19	38.26	5.26	39.32	54	-14.68	Average	Horizontal
12185.00	50.88	36.19	38.26	5.26	54.07	74	-19.93	Peak	Vertical
12185.00	40.43	36.19	38.26	5.26	43.62	54	-10.38	Average	Vertical
14622.00	49.06	37.27	39.29	5.63	52.67	74	-21.33	Peak	Horizontal
14622.00	37.47	37.27	39.29	5.63	41.08	54	-12.92	Average	Horizontal
14622.00	50.19	37.27	39.29	5.63	53.80	74	-20.20	Peak	Vertical
14622.00	36.86	37.27	39.29	5.63	40.47	54	-13.53	Average	Vertical
17059.00	49.53	38.30	40.25	5.95	53.53	74	-20.47	Peak	Horizontal
17059.00	39.49	38.30	40.25	5.95	43.49	54	-10.51	Average	Horizontal
17059.00	50.78	38.30	40.25	5.95	54.78	74	-19.22	Peak	Vertical
17059.00	36.51	38.30	40.25	5.95	40.51	54	-13.49	Average	Vertical

The result for 802.11n HT40 Channel 9 / 2452MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4904.00	58.21	33.26	35.14	3.98	60.31	74	-13.69	Peak	Horizontal
4904.00	41.46	33.26	35.14	3.98	43.56	54	-10.44	Average	Horizontal
4904.00	53.32	33.26	35.14	3.98	55.42	74	-18.58	Peak	Vertical
4904.00	40.53	33.26	35.14	3.98	42.63	54	-11.37	Average	Vertical
7356.00	51.00	34.39	36.27	4.52	53.64	74	-20.36	Peak	Horizontal
7356.00	38.66	34.39	36.27	4.52	41.30	54	-12.70	Average	Horizontal
7356.00	47.35	34.39	36.27	4.52	49.99	74	-24.01	Peak	Vertical
7356.00	36.36	34.39	36.27	4.52	39.00	54	-15.00	Average	Vertical
9808.00	50.93	35.31	37.38	4.69	53.55	74	-20.45	Peak	Horizontal
9808.00	35.37	35.31	37.38	4.69	37.99	54	-16.01	Average	Horizontal
9808.00	50.77	35.31	37.38	4.69	53.39	74	-20.61	Peak	Vertical
9808.00	40.69	35.31	37.38	4.69	43.31	54	-10.69	Average	Vertical
12260.00	48.75	36.28	38.33	5.31	52.01	74	-21.99	Peak	Horizontal
12260.00	37.65	36.28	38.33	5.31	40.91	54	-13.09	Average	Horizontal
12260.00	49.46	36.28	38.33	5.31	52.72	74	-21.28	Peak	Vertical
12260.00	39.06	36.28	38.33	5.31	42.32	54	-11.68	Average	Vertical
14712.00	50.86	37.33	39.37	5.68	54.50	74	-19.50	Peak	Horizontal
14712.00	36.04	37.33	39.37	5.68	39.68	54	-14.32	Average	Horizontal
14712.00	47.55	37.33	39.37	5.68	51.19	74	-22.81	Peak	Vertical
14712.00	38.91	37.33	39.37	5.68	42.55	54	-11.45	Average	Vertical
17164.00	49.82	38.38	40.32	5.99	53.87	74	-20.13	Peak	Horizontal
17164.00	37.72	38.38	40.32	5.99	41.77	54	-12.23	Average	Horizontal
17164.00	46.89	38.38	40.32	5.99	50.94	74	-23.06	Peak	Vertical
17164.00	36.65	38.38	40.32	5.99	40.70	54	-13.30	Average	Vertical

**Notes:**

1. Measuring frequencies from 9k~10th harmonic or 26.5GHz (which is less), No emission found between lowest internal used/generated frequency to 30MHz.
2. Radiated emissions measured in frequency range from 9k~10th harmonic or 26.5GHz (which is less) were made with an instrument using Peak detector mode.
3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Worst case data at 1Mbps at IEEE 802.11b; 6Mbps at IEEE 802.11g; 6.5Mbps at IEEE 802.11n HT20; 13.5Mbps at IEEE 802.11n HT40;

## 5.6. Conducted Spurious Emissions and Band Edges Test

### 5.6.1. Standard Applicable

According to §15.247 (d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

### 5.6.2. Measuring Instruments and Setting

Please refer to section 6 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Detector	Peak
Attenuation	Auto
RB / VB (Emission in restricted band)	100KHz/300KHz
RB / VB (Emission in non-restricted band)	100KHz/300KHz

### 5.6.3. Test Procedures

The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz

The spectrum from 9 kHz to 26.5GHz is investigated with the transmitter set to the lowest, middle, and highest channels.

### 5.6.4. Test Setup Layout

This test setup layout is the same as that shown in section 5.4.4.

### 5.6.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

### 5.6.6. Test Results of Conducted Spurious Emissions

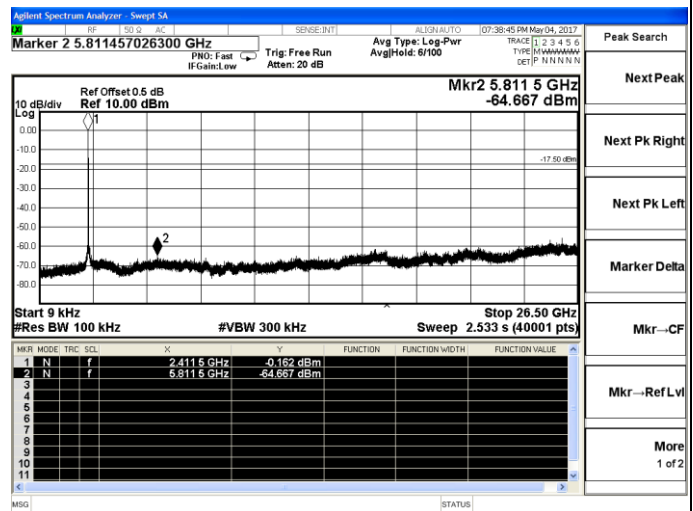
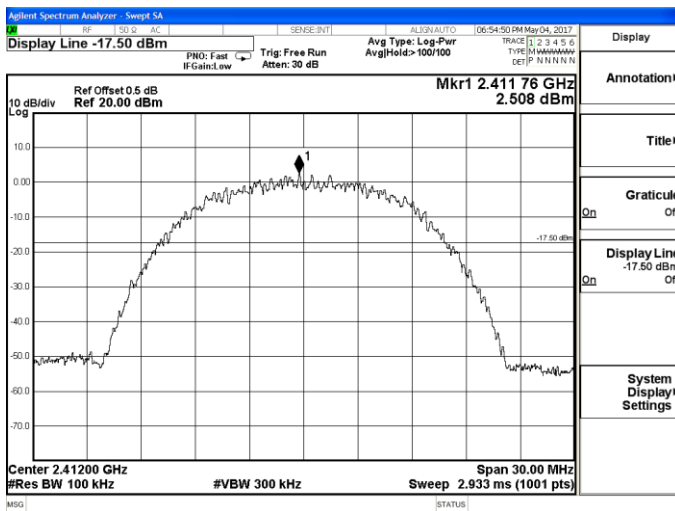
Temperature	25°C	Humidity	60%
Test Engineer	Aking Jin	Configurations	IEEE 802.11b/g/n

Test Mode	Channel	Frequency (MHz)	Reading Frequency (MHz)		Conducted Spurious Emission		Limits (dBc)	Verdict
			Chain 0	Chain 1	Chain 0 (dBm)	Chain 1 (dBm)		
IEEE 802.11b	1	2412	5811.5	4824.3	-64.667	-66.209	<20	PASS
	6	2437	5277.5	5755.1	-65.588	-66.247		
	11	2462	4923.0	5739.2	-65.340	-65.830		
IEEE 802.11g	1	2412	4821.7	4821.7	-65.757	-66.842	<20	PASS
	6	2437	4870.0	4884.0	-65.822	-65.093		
	11	2462	4924.4	5242.4	-65.510	-66.861		
IEEE 802.11n HT20	1	2412	5686.9	4834.9	-65.228	-66.123	<20	PASS
	6	2437	5768.4	5804.2	-65.601	-65.122		
	11	2462	5831.3	5118.5	-65.824	-66.532		
IEEE 802.11n HT40	3	2422	5877.0	5675.6	-66.217	-65.662	<20	PASS
	6	2437	5617.3	5250.3	-65.851	-66.542		
	9	2452	5924.1	6222.9	-65.650	-65.263		

**Remark:**

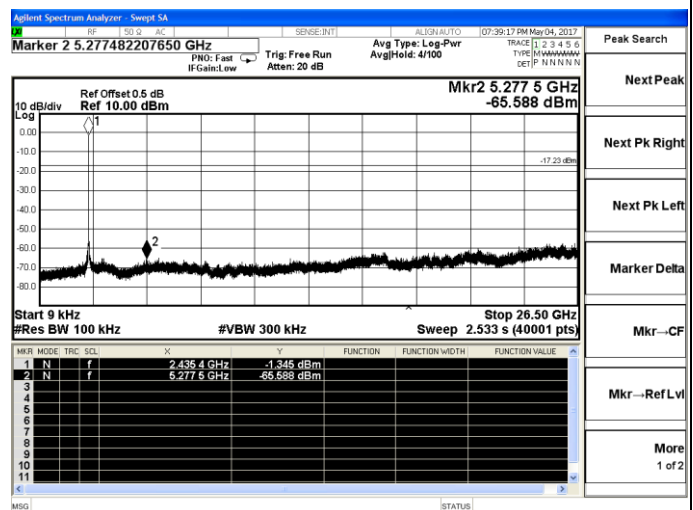
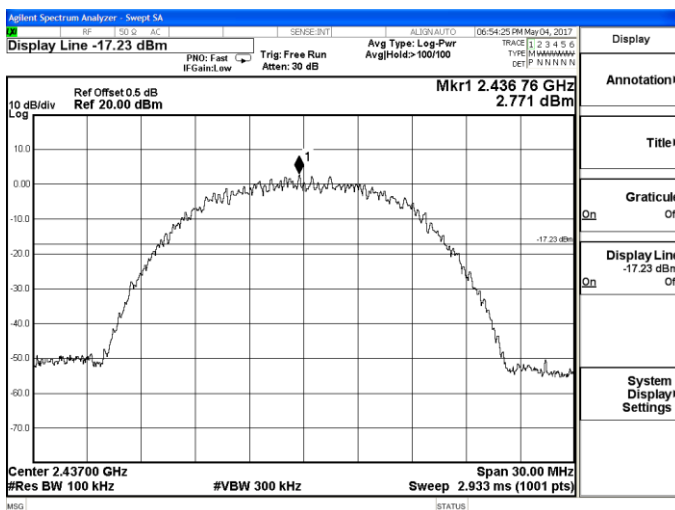
1. Measured output power at difference data rate for each mode and recorded worst case for each mode.
2. Test results including cable loss;
3. Worst case data at 1Mbps at IEEE 802.11b; 6Mbps at IEEE 802.11g; 6.5Mbps at IEEE 802.11n HT20; 13.5Mbps at IEEE 802.11n HT40;
4. “---“means that the fundamental frequency not for 15.209 limits requirement.
5. please refer to following plots;

Test plot of Conducted Spurious Emission



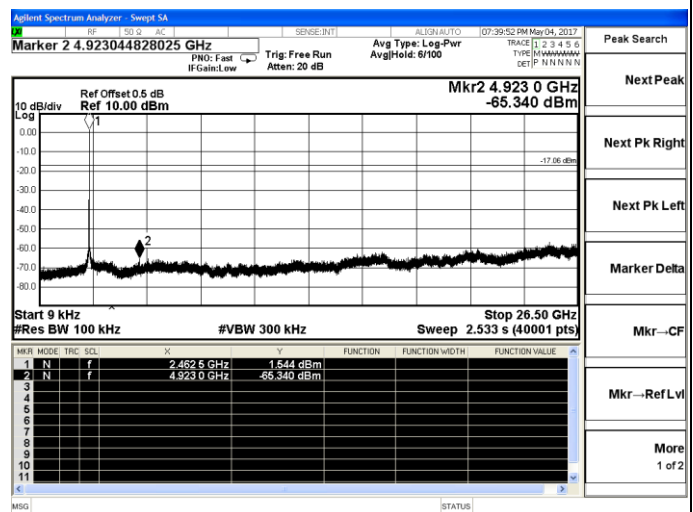
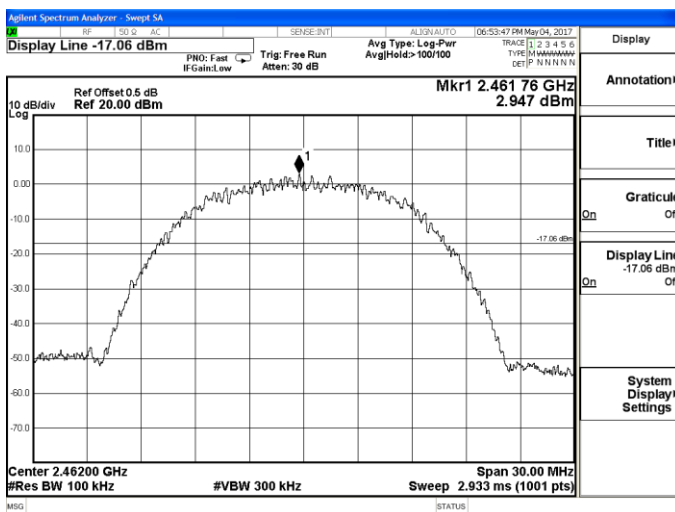
802.11b Chain 0-Low channel Reference

802.11b Chain 0-Low channel



802.11b Chain 0-Middle channel Reference

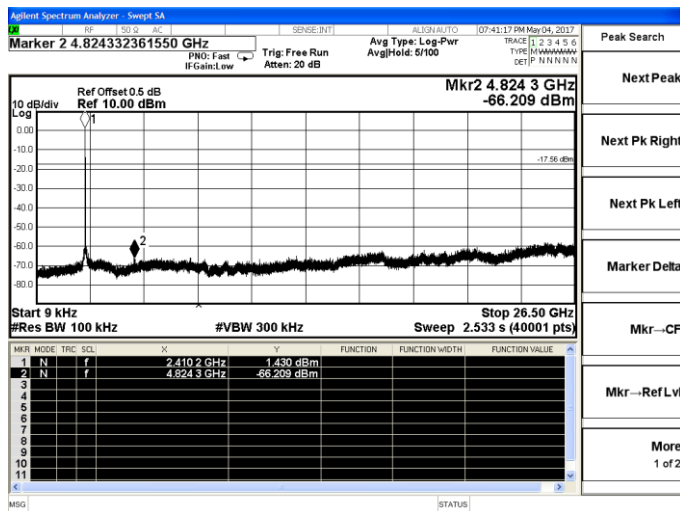
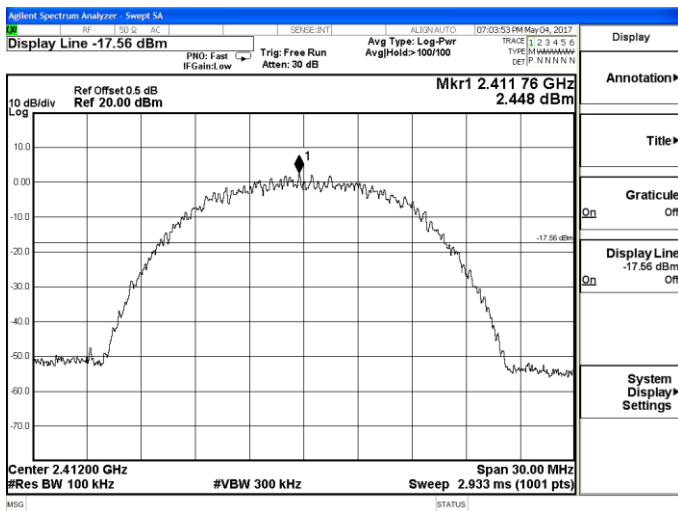
802.11b Chain 0-Middle channel



802.11b Chain 0-High channel Reference

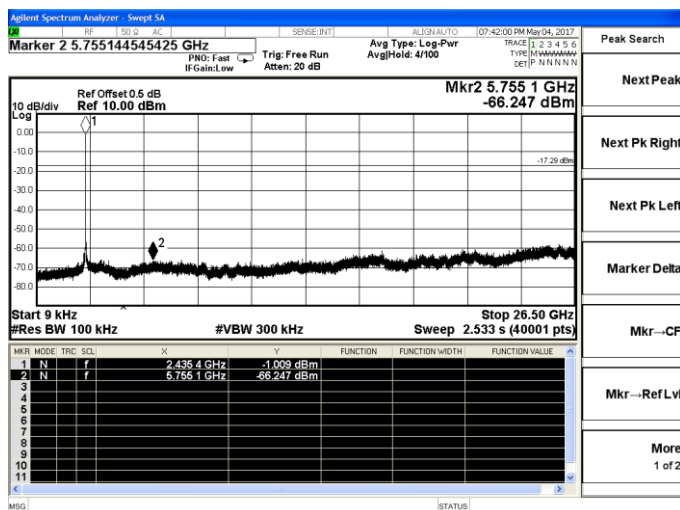
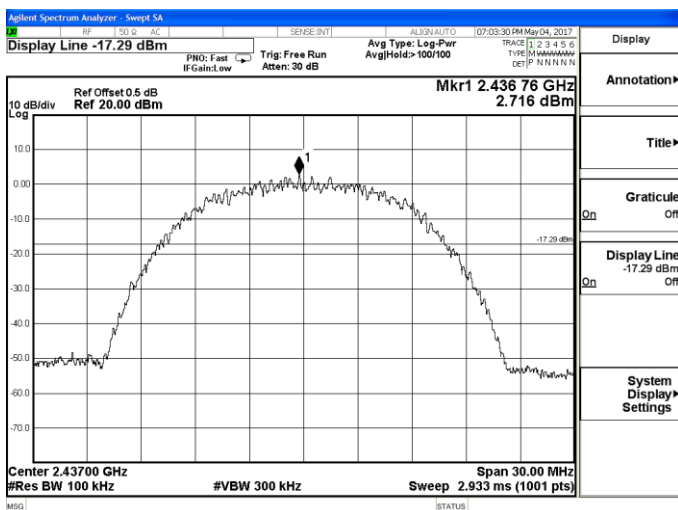
802.11b Chain 0-High channel

Test plot of Conducted Spurious Emission



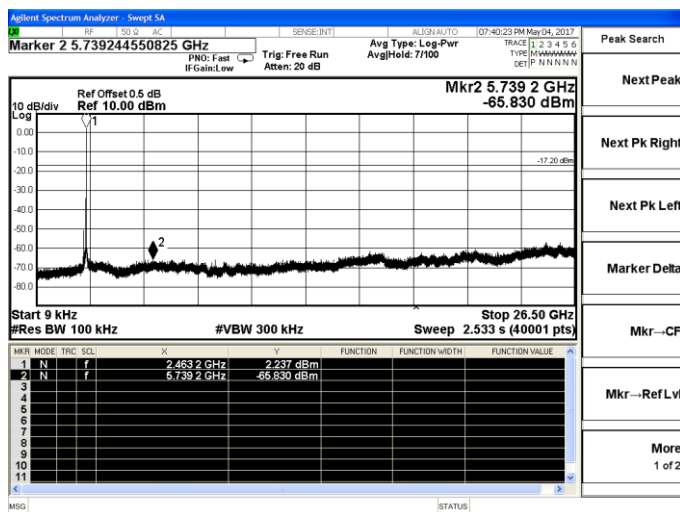
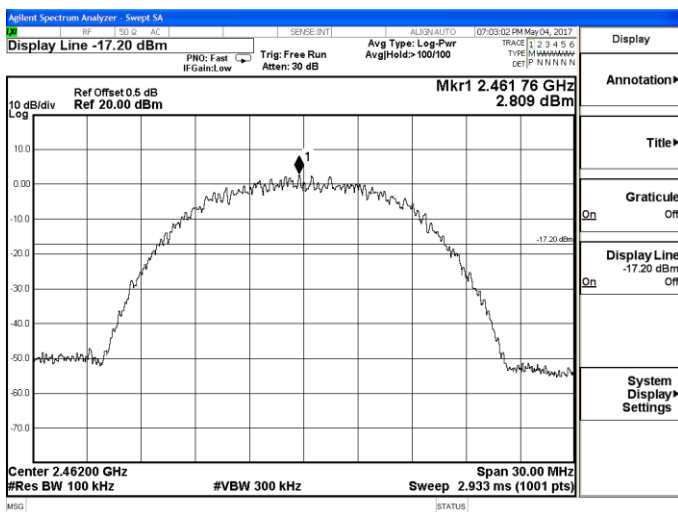
802.11b Chain 1-Low channel Reference

802.11b Chain 1-Low channel



802.11b Chain 1-Middle channel Reference

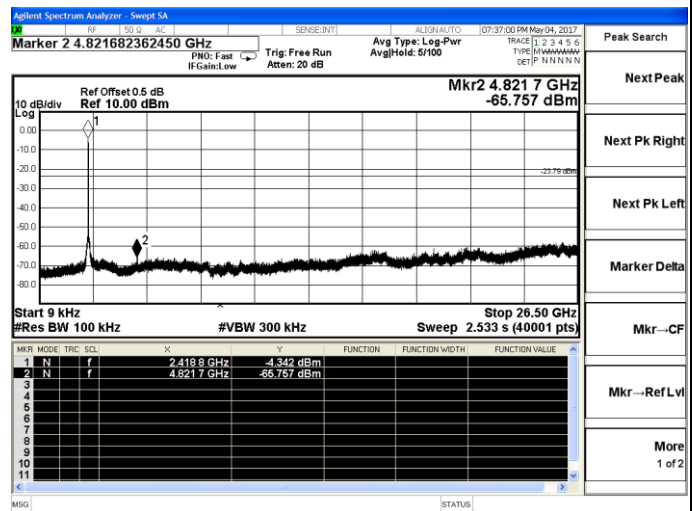
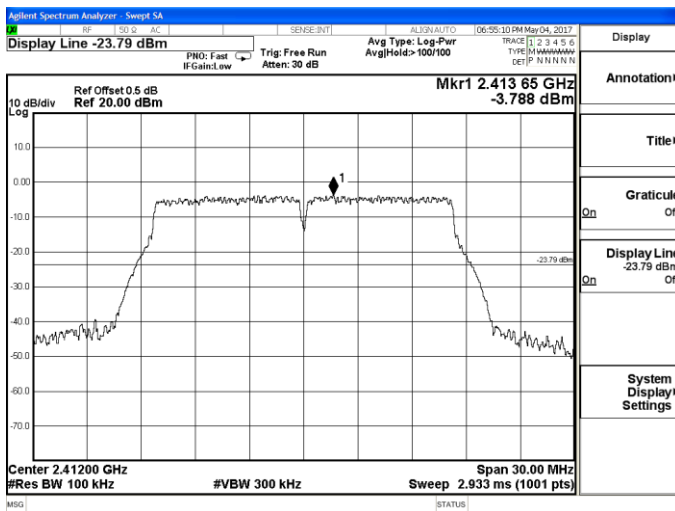
802.11b Chain 1-Middle channel



802.11b Chain 1-High channel Reference

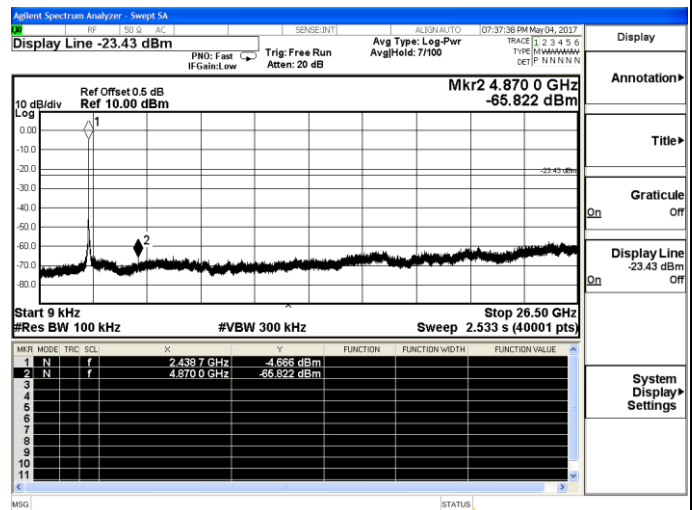
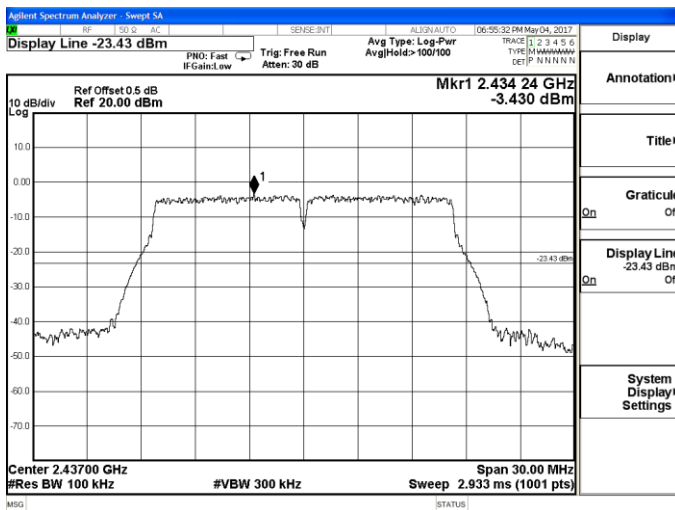
802.11b Chain 1-High channel

Test plot of Conducted Spurious Emission



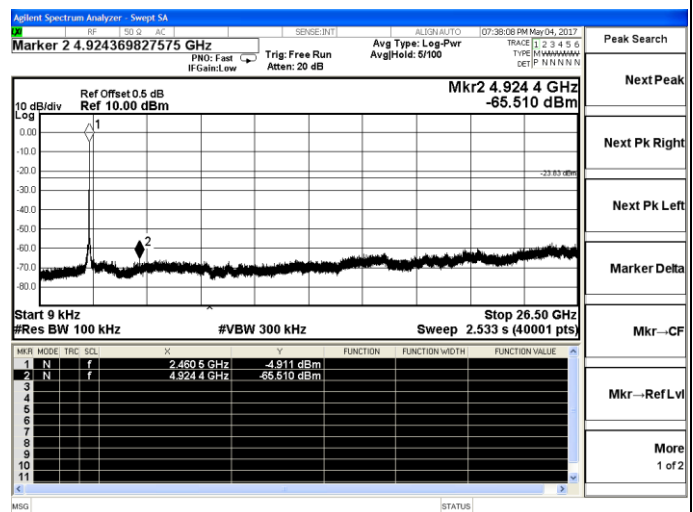
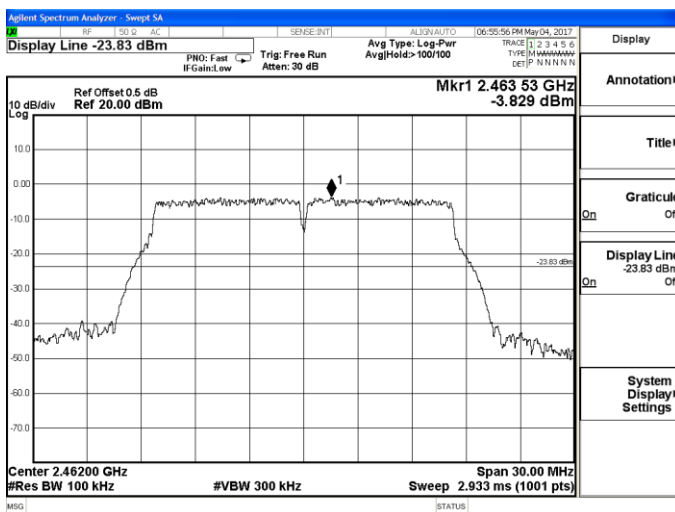
802.11g Chain 0-Low channel Reference

802.11g Chain 0-Low channel



802.11g Chain 0-Middle channel Reference

802.11g Chain 0-Middle channel

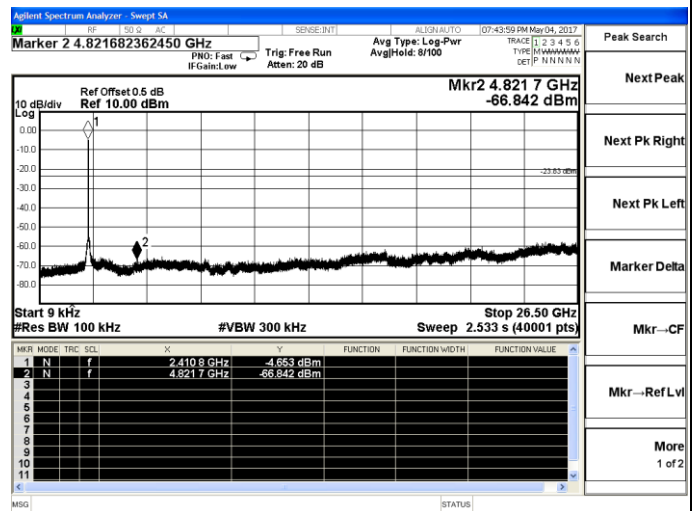
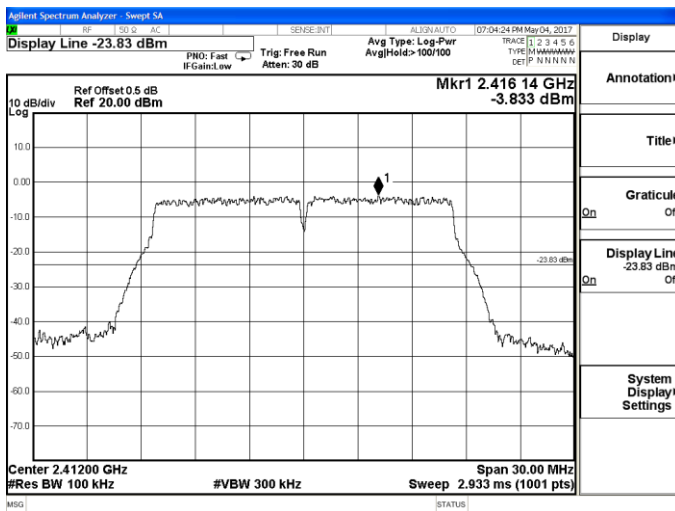


802.11g Chain 0-High channel Reference

802.11g Chain 0-High channel

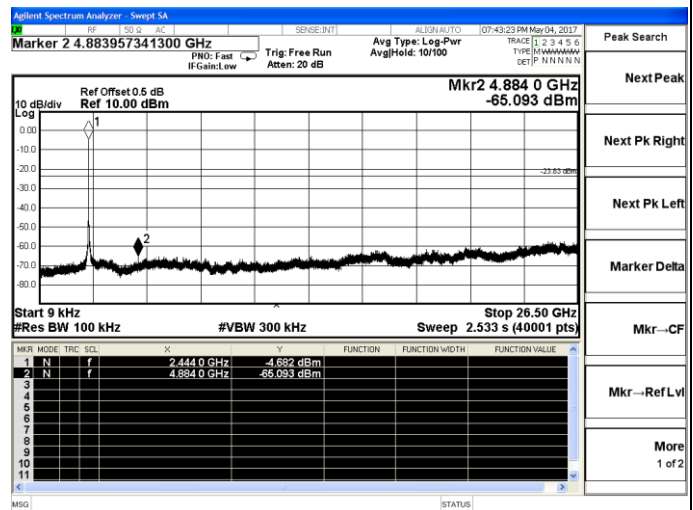
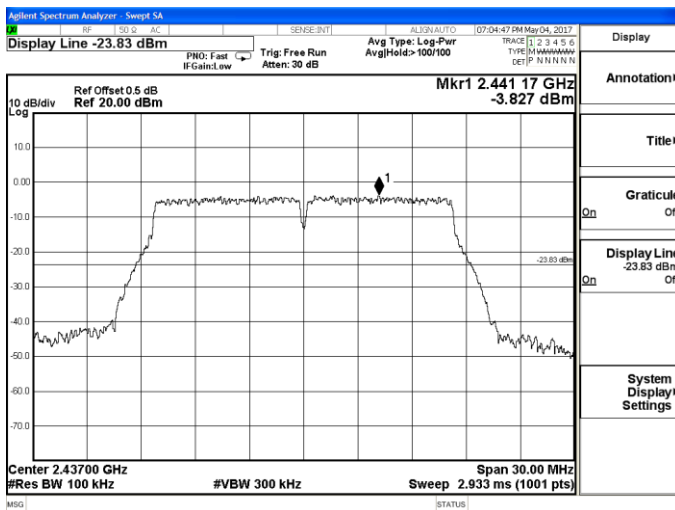


Test plot of Conducted Spurious Emission



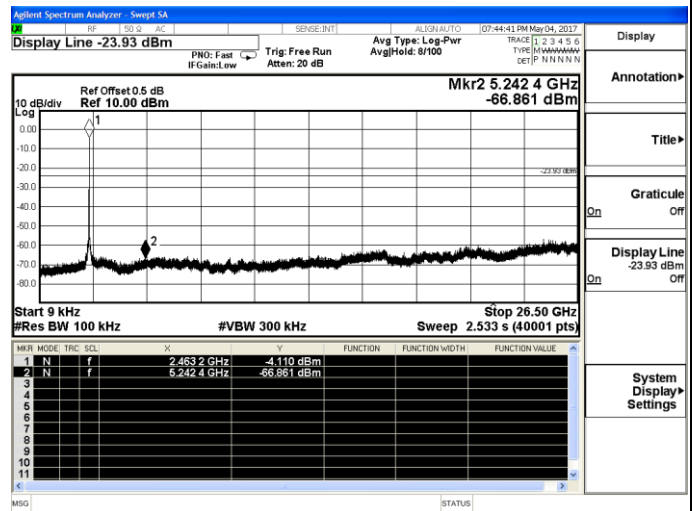
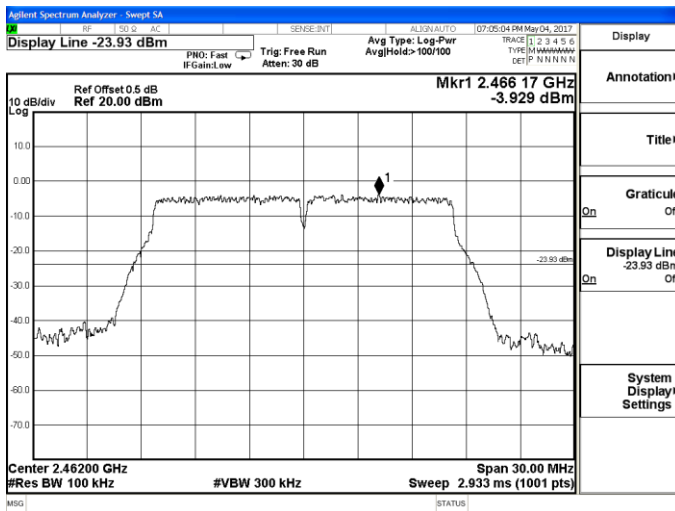
802.11g Chain 1-Low channel Reference

802.11g Chain 1-Low channel



802.11g Chain 1-Middle channel Reference

802.11g Chain 1-Middle channel



802.11g Chain 1-High channel Reference

802.11g Chain 1-High channel