



中国认可  
国际互认  
检测  
TESTING  
CNAS L5313



**DEKRA**

# Test Report

## FCC Part15 Subpart C

Product Name : Wireless Adapter  
Model No. : WRJDG01FM  
FCC ID : 2AG53WRJDG01FM

Applicant : BEIJING FIMI TECHNOLOGY LIMITED  
Address : No.348,Floor3,1#Complex Building,Yongtaiyuan  
Jia,Qinghe,Haidian District,Beijing,China

Date of Receipt : Feb. 13, 2017  
Test Date : Feb. 13, 2017~ Feb. 23, 2017  
Issued Date : Mar. 03, 2017  
Report No. : 1722043R-RF-US-P06V01  
Report Version : V1.2

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by CNAS, TAF or any agency of the government.

The test report shall not be reproduced without the written approval of DEKRA Testing and Certification (Suzhou) Co., Ltd.

# Test Report Certification

Issued Date : Mar. 03, 2017  
Report No. : 1722043R-RF-US-P06V01



Product Name : Wireless Adapter  
 Applicant : BEIJING FIMI TECHNOLOGY LIMITED  
 Address : No.348,Floor3,1#Complex Building,Yongtaiyuan  
 Jia,Qinghe,Haidian District,Beijing,China  
 Manufacturer : BEIJING FIMI TECHNOLOGY LIMITED  
 Address : No.348,Floor3,1#Complex Building,Yongtaiyuan  
 Jia,Qinghe,Haidian District,Beijing,China  
 Model No. : WRJDG01FM  
 FCC ID : 2AG53WRJDG01FM  
 EUT Voltage : DC 5V  
 Applicable Standard : FCC CFR Title 47 Part 15 Subpart C: 2015  
 ANSI C63.4:2014;  
 ANSI C63.10:2013;  
 KDB 558074 D01v03r05  
 Test Result : Complied  
 Performed Location : DEKRA Testing and Certification (Suzhou) Co., Ltd.  
 No.99 Hongye Rd., Suzhou Industrial Park, Suzhou, 215006,  
 Jiangsu, China  
 TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098  
 FCC Registration Number: 800392

Documented By : Kathy Feng  
 ( Adm. Specialist: Kathy Feng)

Reviewed By : Jack Zhang  
 (Senior Engineer: Jack Zhang )

Approved By : Harry Zhao  
 (Engineering Manager: Harry Zhao )

## TABLE OF CONTENTS

Description	Page
1. General Information.....	6
1.1. EUT Description .....	6
1.2. Working Frequency of Each Channel: .....	6
1.3. Antenna information .....	7
1.4. Mode of Operation.....	7
1.5. Tested System Details .....	7
1.6. Configuration of Tested System.....	8
1.7. EUT Exercise Software.....	9
2. Technical Test.....	10
2.1. Summary of Test Result.....	10
2.2. Test Frequency configuration:.....	11
2.3. Power setting Parameter .....	11
2.4. Power vs Data Rate.....	12
2.5. Test Environment.....	13
2.6. Measurement Uncertainty.....	13
3. AC Power Line Conducted Emission.....	14
3.1. Test Equipment.....	14
3.2. Test Setup.....	14
3.3. Limit.....	15
3.4. Test Procedure .....	15
3.5. Test Result.....	16
4. Emissions in restricted frequency bands .....	17
4.1. Test Equipment.....	17
4.2. Test Setup.....	18
4.3. Limit.....	19
4.4. Test Procedure .....	21
4.5. EUT test Axis definition.....	22
4.6. Test Result.....	23
5. Emissions in non-restricted frequency bands .....	29
5.1. Test Equipment.....	29
5.2. Test Setup.....	30
5.3. Limit.....	31
5.4. Test Procedure .....	32
5.5. EUT test Axis definition.....	33
5.6. Test Result.....	34
6. Radiated Emission Band Edge .....	35
6.1. Test Equipment.....	35

- 6.2. Test Setup..... 36
- 6.3. Limit..... 36
- 6.4. Test Procedure ..... 37
- 6.5. EUT test definition ..... 38
- 6.6. Duty Cycle ..... 39
- 6.7. Test Result..... 40
- 7. Occupied Bandwidth..... 96
- 7.1. Test Equipment..... 96
- 7.2. Test Setup..... 96
- 7.3. Limit..... 97
- 7.4. Test Procedure ..... 97
- 7.5. EUT test definition ..... 98
- 7.6. Test Result..... 99
- 8. Fundamental emission output power ..... 100
- 8.1. Test Equipment..... 100
- 8.2. Test Setup..... 100
- 8.3. Limit..... 101
- 8.4. Test Procedure ..... 102
- 8.5. EUT test definition ..... 103
- 8.6. Test Result..... 104
- 9. Power Spectral Density ..... 106
- 9.1. Test Equipment..... 106
- 9.2. Test Setup..... 106
- 9.3. Limit..... 106
- 9.4. Test Procedure ..... 107
- 9.5. EUT test definition ..... 108
- 9.6. Test Result..... 109
- 10. Antenna Requirement..... 110
- 10.1. Limit..... 110
- 10.2. Antenna Connector Construction..... 110

### History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
1722043R-RF-US-P06V01	V1.0	Initial Issued Report	Feb. 28, 2017
1722043R-RF-US-P06V01	V1.1	<ol style="list-style-type: none"> <li>1. Change the data detector on page 24.</li> <li>2. Modified the Ant 0 to Ant 1.</li> <li>3. Add the data about band edge &amp; power &amp; power setting for adjacent channel.</li> </ol>	Mar. 02, 2017
1722043R-RF-US-P06V01	V1.2	<ol style="list-style-type: none"> <li>1. Correct the data and diagram on page 88.</li> <li>2. Modified some typo on page 104</li> </ol>	Mar. 03, 2017

## 1. General Information

### 1.1. EUT Description

Product Name	Wireless Adapter
Model No.	WRJDG01FM
EUT Voltage	DC 5V
Frequency Range	For 2.4GHz Band 802.11b/g/n(20MHz): 2412~2462MHz 802.11n(40MHz): 2422~2452MHz
Channel Number	For 2.4GHz Band 802.11b/g/n(20MHz): 11 802.11n(40MHz): 7
Type of Modulation	802.11b: DSSS 802.11g: OFDM
Data Rate	802.11g: 6/9/12/18/24/36/48/54 Mbps 802.11b: 1/2/5.5/11 Mbps 802.11n: up to 150 Mbps
Channel Control	Auto

### 1.2. Working Frequency of Each Channel:

802.11b/g/n(20MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
01	2412 MHz	02	2417 MHz	03	2422 MHz	04	2427 MHz
05	2432 MHz	06	2437 MHz	07	2442 MHz	08	2447 MHz
09	2452 MHz	10	2457 MHz	11	2462 MHz	N/A	N/A
802.11n(40MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
03	2422 MHz	04	2427 MHz	05	2432 MHz	06	2437 MHz
07	2442 MHz	08	2447 MHz	09	2452 MHz	N/A	N/A

### 1.3. Antenna information

Model No.	N/A					
Antenna manufacturer	N/A					
Antenna Delivery	<input checked="" type="checkbox"/>	1*TX+1*RX	<input type="checkbox"/>	2*TX+2*RX	<input type="checkbox"/>	3*TX+3*RX
Antenna technology	<input checked="" type="checkbox"/>	SISO				
	<input type="checkbox"/>	MIMO	<input type="checkbox"/>	Basic		
			<input type="checkbox"/>	CDD		
			<input type="checkbox"/>	Beam-forming		
Antenna Type	<input type="checkbox"/>	External	<input type="checkbox"/>	Dipole		
	<input checked="" type="checkbox"/>	Internal	<input type="checkbox"/>	PIFA		
			<input type="checkbox"/>	PCB		
			<input checked="" type="checkbox"/>	Chip Antenna		
			<input type="checkbox"/>	Metal plate type F antenna		
Antenna Gain	0.5dBi					

### 1.4. Mode of Operation

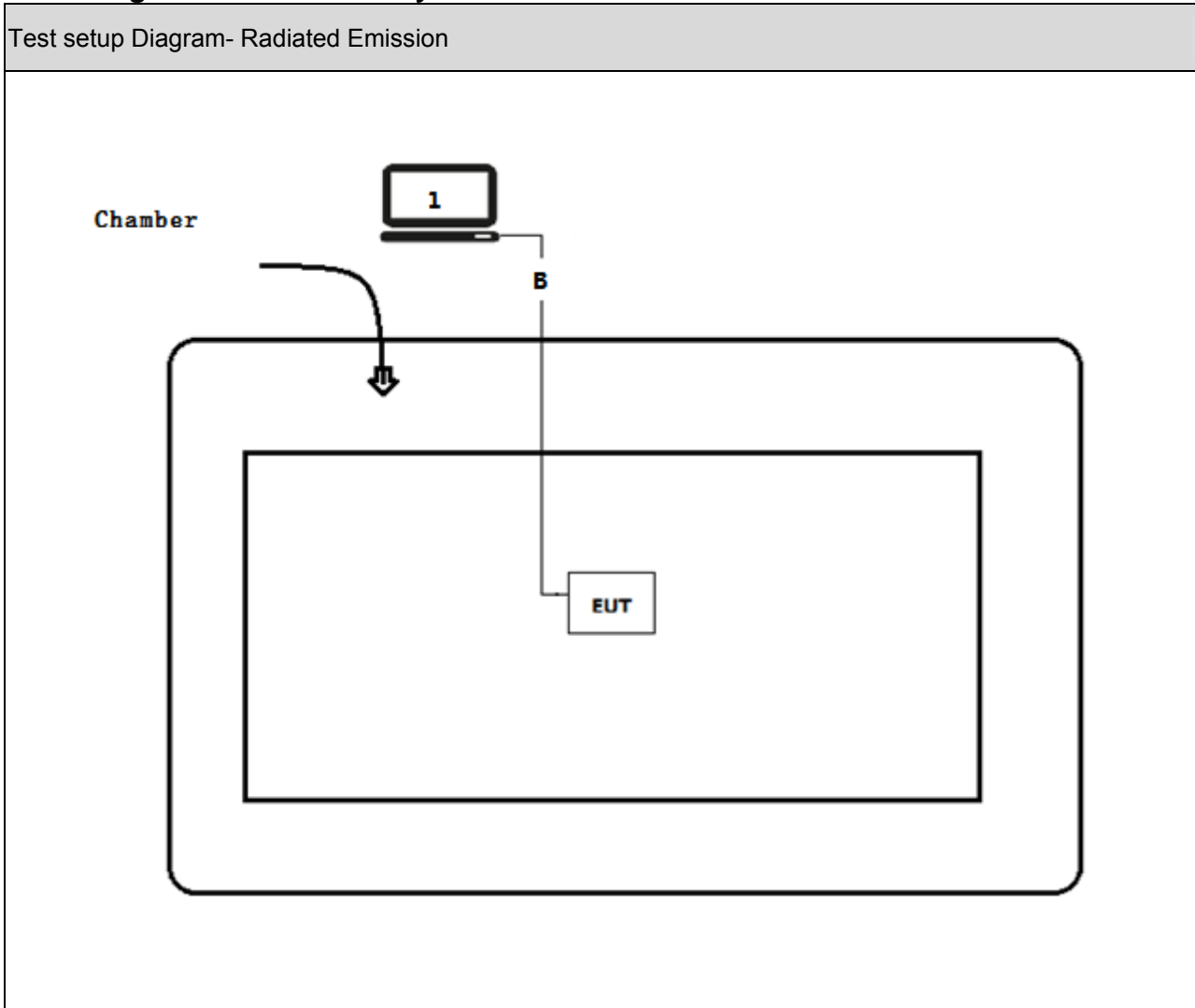
Test Mode
Mode 1: Transmit by 802.11b
Mode 2: Transmit by 802.11g
Mode 3: Transmit by 802.11n(20MHz)
Mode 4: Transmit by 802.11n(40MHz)

### 1.5. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product	Manufacturer	Model No.	Serial No.	Power Cord
1   Notebook	Lenovo	Think pad x220	SUA0600195	Non-shielded

### 1.6. Configuration of Tested System



Signal Cable Type		Signal cable Description
B	USB Cable	Shielded, 15m



### 1.7. EUT Exercise Software

1	Setup the EUT and Client as shown on above.
2	Turn on the power of equipment.
3	Configure the client and connect the EUT.
4	Run the software 【Art 2】 , and set the test mode and channel, then test.

## 2. Technical Test

### 2.1. Summary of Test Result

Performed Test Item	Normative References	Worst case mode	Limit	Result
AC Power Line Conducted Emission	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.207	N/A	FCC 15.207	N/A
Emissions in restricted frequency bands	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.209	802.11b	FCC 15.209	PASS
Emissions in non-restricted frequency bands	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.247(d)	802.11b	20dBc	PASS
Radiated Emission Band Edge	FCC CFR Title 47 Part 15 Subpart C: 2015 15.247(d)	802.11g	FCC 15.209	PASS
Occupied Bandwidth	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.247(a)(2)	802.11b	500kHz	PASS
Fundamental emission output power	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.247(b)(3)	802.11n(20MHz)	30dBm	PASS
Power Spectral Density	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.247(e)	802.11b	8dBm/3kHz	PASS
Antenna Requirement	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.203	N/A	FCC 15.203	PASS

**2.2. Test Frequency configuration:**

Modulation Mode	Channel	Frequency	Channel	Frequency	Channel	Frequency
802.11b	01	2412 MHz	06	2437 MHz	11	2462MHz
802.11g	01	2412 MHz	02	2417 MHz	06	2437 MHz
	10	2452 MHz	11	2462 MHz	N/A	N/A
802.11n(20MHz)	01	2412 MHz	02	2417 MHz	06	2437 MHz
	10	2452 MHz	11	2462 MHz	N/A	N/A
802.11n(40MHz)	03	2422 MHz	04	2427 MHz	06	2437 MHz
	08	2447 MHz	09	2452MHz	N/A	N/A

**2.3. Power setting Parameter**

Test Software	ART 2	
Modulation Mode	Test Frequency	Ant 1
802.11b	2412	12.5
	2437	11.5
	2462	12
802.11g	2412	14.5
	2417	18.5
	2437	21
	2457	18.5
	2462	13.5
802.11n(20MHz)	2412	13
	2417	18
	2437	21
	2457	18
	2462	10.5
802.11n(40MHz)	2422	10
	2427	15
	2437	15.5
	2447	15
	2452	11

Note: The EUT only has one chain.

## 2.4. Power vs Data Rate

MCS Index for 802.11n	Spatial Streams	Data Rate (Mbps)						
		802.11b	802.11g	802.11a	20MHz Bandwidth		40MHz Bandwidth	
					800ns GI	400ns GI	800ns GI	400ns GI
0	1	1	6	6	6.5	7.2	13.5	15.0
1	1	2	9	9	13.0	14.4	27.0	30.0
2	1	5.5	12	12	19.5	21.7	40.5	45.0
3	1	11	18	18	26.0	28.9	54.0	60.0
4	1	---	24	24	39.0	43.3	81.0	90.0
5	1	---	36	36	52.0	57.8	108.0	120.0
6	1	---	48	48	58.5	65.0	121.5	135.0
7	1	---	54	54	65.0	72.2	135.0	150.0
8	2	---	---	---	13.0	14.4	27.0	30.0
9	2	---	---	---	26.0	28.9	54.0	60.0
10	2	---	---	---	39.0	43.3	81.0	90.0
11	2	---	---	---	52.0	57.8	108.0	120.0
12	2	---	---	---	78.0	86.7	162.0	180.0
13	2	---	---	---	104.0	115.6	216.0	240.0
14	2	---	---	---	117.0	130.0	243.0	270.0
15	2	---	---	---	130.0	144.0	270.0	300.0

Note 1 : The blue form is the maximum power data rate

Note 2 : The EUT only has one spatial Streams

## 2.5. Test Environment

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	21
Humidity (%RH)	25-75	50
Barometric pressure (mbar)	860-1060	950-1000

## 2.6. Measurement Uncertainty

Test Items	Uncertainty
AC Power Line Conducted Emission	$\pm 2.02\text{dB}$
Radiated Emission	Below 1GHz $\pm 3.8\text{ dB}$
	Above 1GHz $\pm 3.9\text{ dB}$
RF Antenna Port Conducted Emission	$\pm 1.27\text{dB}$
Radiated Emission Band Edge	$\pm 3.9\text{dB}$
Occupied Bandwidth	$\pm 1\text{kHz}$
Power Spectral Density	$\pm 1.27\text{dB}$

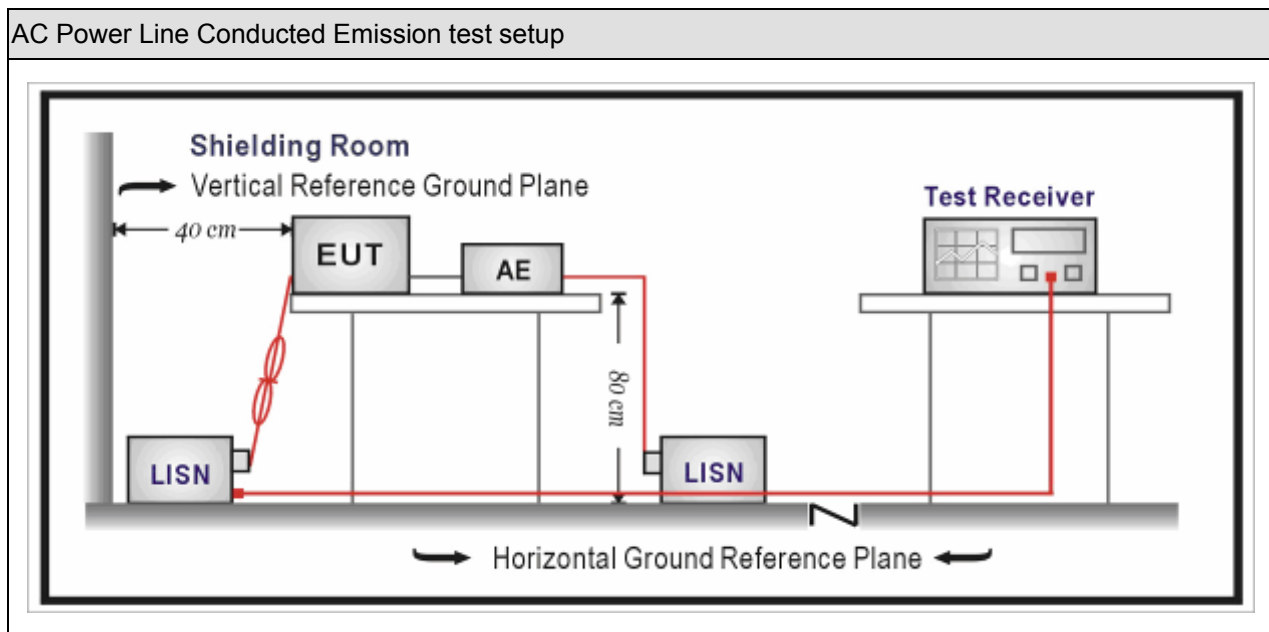
### 3. AC Power Line Conducted Emission

#### 3.1. Test Equipment

AC Power Line Conducted Emission / TR-1					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100726	2016.03.05	2017.03.04
Two-Line V-Network	R&S	ENV216	100043	2016.06.16	2017.07.15
Two-Line V-Network	R&S	ENV216	100044	2016.09.16	2017.09.15
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	N/A	N/A
50ohm Termination	SHX	TF2	07081401	2016.09.16	2017.09.15
Temperature/Humidity Meter	zhichen	ZC1-2	TR1-TH	2017.01.04	2018.01.03

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

#### 3.2. Test Setup



### 3.3. Limit

Frequency of Emission (MHz)	Conducted Limit	
	Quasi-peak (dB $\mu$ V)	Average (dB $\mu$ V)
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

Note 1: The lower limit shall apply at the transition frequencies.  
 Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

### 3.4. Test Procedure

Test Method			
	References Rule	Chapter	Item
<input checked="" type="checkbox"/>	ANSI C63.10-2013	6.2	Standard test method for ac power-line conducted emissions from unlicensed wireless devices
<input checked="" type="checkbox"/>	ANSI C63.4-2014	7	AC power-line conducted emission measurements

### **3.5. Test Result**

The dongle only designs to be used with the wireless controller which is powered by battery, so the conducted emission is optional.



## 4. Emissions in restricted frequency bands

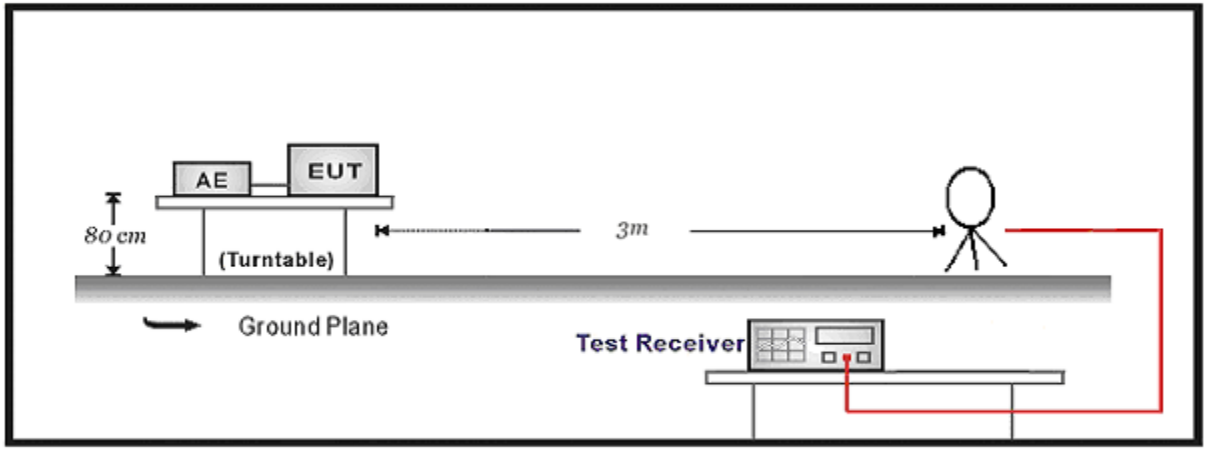
### 4.1. Test Equipment

Radiated Emission(Below 1GHz) / AC-2					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100573	2016.03.29	2017.03.28
Loop Antenna	R&S	HFH2-Z2	833799/003	2016.11.16	2017.11.15
Bilog Chainenna	Teseq GmbH	CBL6112D	27611	2016.10.16	2017.10.15
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2016.03.02	2017.03.01
Temperature/Humidity Meter	Zhichen	ZC1-2	AC2-TH	2017.01.03	2018.01.02
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

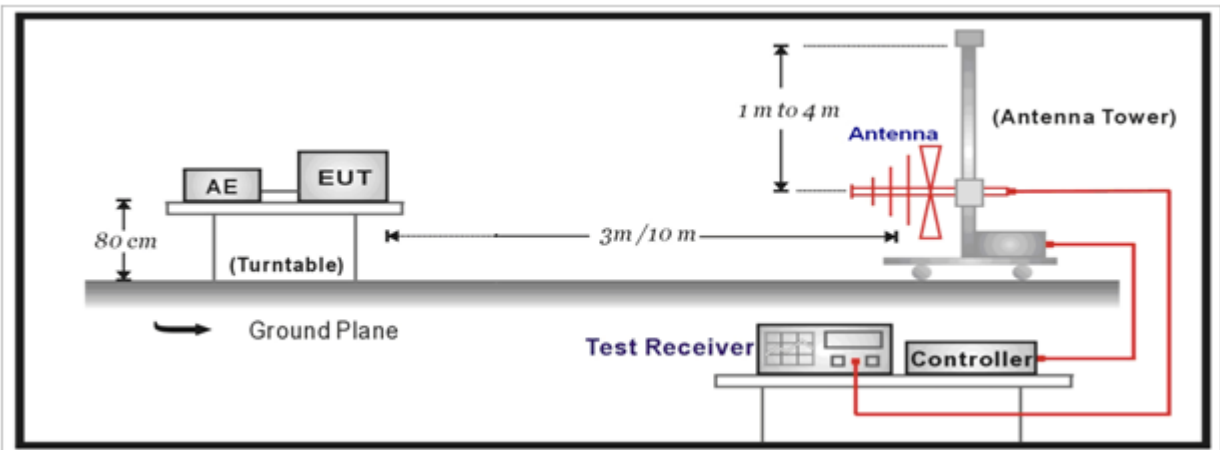
Radiated Emission(Above 1GHz) / AC-5					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2017.01.04	2018.01.03
Preamplifier	Miteq	NSP1800-25	1364185	2016.05.06	2017.05.05
Preamplifier	QuieTek	AP-040G	CHM-0906001	2016.05.06	2017.05.05
DRG Horn	ETS-Lindgren	3117	00123988	2017.01.22	2018.01.21
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2016.11.25	2017.11.24
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C1	2016.03.02	2017.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2016.03.02	2017.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	AC5-C3	2016.03.02	2017.03.01
EMI Receiver	Agilent	N9038A	MY51210196	2016.06.10	2017.06.09
Temperature/Humidity Meter	Zhichen	ZC1-2	AC5-TH	2017.01.04	2018.01.03
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

### 4.2. Test Setup

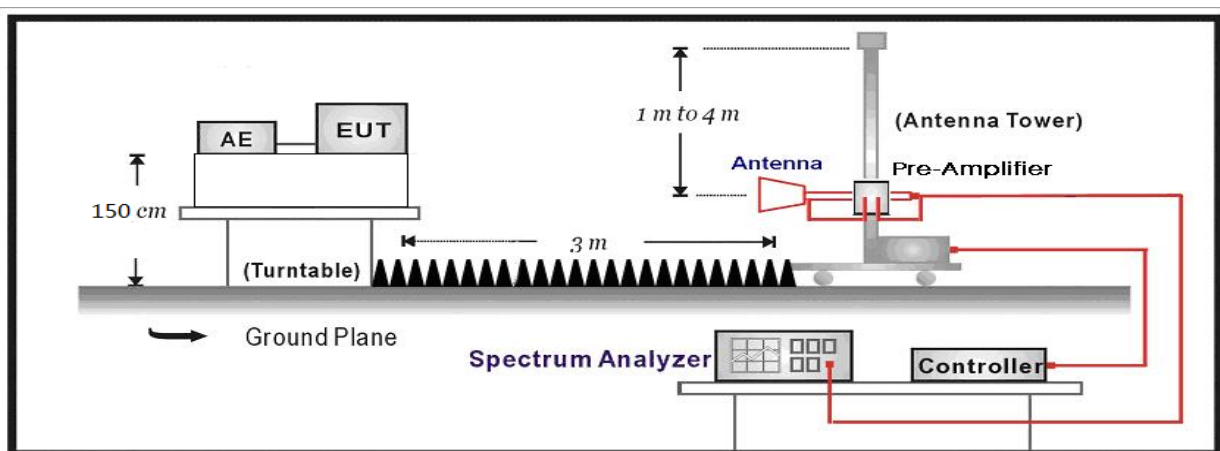
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:



**4.3. Limit**

Restricted Bands of operation			
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 – 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15
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
8.81425 – 8.81475	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	
13.36 – 13.41			

Restricted Band Emissions Limit			
Frequency (MHz)	Field strength ( $\mu$ V/m)	Field strength (dB $\mu$ V/m)	Measurement distance (m)
0.009 - 0.49	2400/F(kHz)	48.5 – 13.8	300 <sub>(Note 1)</sub>
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30 <sub>(Note 1)</sub>
1.705 - 30	30	29.5	30 <sub>(Note 1)</sub>
30 - 88	100	40	3 <sub>(Note 2)</sub>
88 - 216	150	43.5	3 <sub>(Note 2)</sub>
216 - 960	200	46	3 <sub>(Note 2)</sub>
Above 960	500	54	3 <sub>(Note 2)</sub>

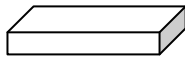
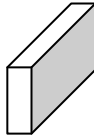
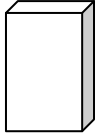


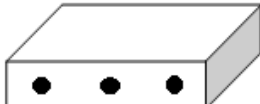
Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

**4.4. Test Procedure**

Test Method			
	References Rule	Chapter	Description
<input type="checkbox"/>	ANSI C63.10	11.11	Emissions in non-restricted frequency bands
	<input type="checkbox"/> ANSI C63.10	11.11.2	Reference level measurement
	<input type="checkbox"/> ANSI C63.10	11.11.3	Emission level measurement
<input checked="" type="checkbox"/>	ANSI C63.10	11.12	Emissions in restricted frequency bands
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.1	Radiated emission measurements
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.2.7	Radiated spurious emission test
	<input checked="" type="checkbox"/> ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
	<input checked="" type="checkbox"/> ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
	<input checked="" type="checkbox"/> ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz
<input type="checkbox"/>	ANSI C63.10	11.12.2	Antenna-port conducted measurements
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.2.3	Quasi-peak measurement procedure
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.2.4	Peak power measurement procedure
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.2.5	Average power measurement procedures
	<input type="checkbox"/> ANSI C63.10	11.12.2.5.1	Trace averaging with continuous EUT transmission at full power
	<input type="checkbox"/> ANSI C63.10	11.12.2.5.2	Trace averaging across ON and OFF times of the EUT transmissions followed by duty cycle correction
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.2.5.3	Reduced VBW averaging across ON and OFF times of the EUT transmissions with max hold

**4.5. EUT test Axis definition**

Item	Emissions in non-restricted frequency bands			
Device Category	<input checked="" type="checkbox"/>	Portable use		
	<input type="checkbox"/>	Mobile position use		
Test mode	Mode 1, Mode 2, Mode 3, Mode 4			
Test method	<input checked="" type="checkbox"/>	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis <input checked="" type="checkbox"/>	Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>
	<input type="checkbox"/>	Conducted		
	<input type="checkbox"/>	Chain 1		
				
	<input type="checkbox"/>	Chain 1	Chain 2	
				
		Worst Chain <input type="checkbox"/>	Worst Chain <input type="checkbox"/>	
	<input type="checkbox"/>	Chain 1	Chain 2	Chain 3
				
	Worst Chain <input type="checkbox"/>	Worst Chain <input type="checkbox"/>	Worst Chain <input type="checkbox"/>	

**4.6. Test Result**

Product Name	: Wireless Adapter	Power	: AC 120V/60Hz
Test Mode	: Mode 1	Test Site	: AC-5

Chain	CH	Antenna	Frequency (MHz)	Reading Level (dB μ V/m)	Factor (dB)	Measure Level (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Detector
Ant 1	1	H	4824.015	61.569	-7.731	53.838	54.0	-0.162	AV
		H	4825.000	62.598	-7.732	54.866	74.0	-19.134	PK
		H	7236.000	49.090	-4.473	44.617	54(note3)	-9.383	PK
		H	9648.000	44.996	-0.989	44.006	54(note3)	-9.994	PK
		V	4824.045	60.826	-7.731	53.095	54	-0.905	AV
		V	4825.000	62.185	-7.732	54.453	74	-19.547	PK
		V	7236.000	49.221	-4.473	44.748	54(note3)	-9.252	PK
		V	9648.000	44.386	-0.989	43.396	54(note3)	-10.604	PK
	6	H	4874.060	61.314	-7.541	53.772	54	-0.228	AV
		H	4876.000	62.239	-7.514	54.725	74	-19.275	PK
		H	7311.000	47.904	-4.348	43.556	54(note3)	-10.444	PK
		H	9748.000	44.929	-1.548	43.380	54(note3)	-10.620	PK
		V	4876.000	59.740	-7.514	52.226	54(note3)	-1.774	PK
		V	7311.000	46.944	-4.348	42.596	54(note3)	-11.404	PK
		V	9748.000	44.941	-1.548	43.392	54(note3)	-10.608	PK
	11	H	4923.150	61.350	-7.676	53.674	54	-0.326	AV
		H	4927.000	62.155	-7.754	54.401	74	-19.599	PK
		H	7386.000	48.413	-3.897	44.516	54(note3)	-9.484	PK
		H	9848.0	26.6	15.3	41.9	54(note3)	-10.329	PK
		V	4927.000	59.445	-7.754	51.691	54(note3)	-2.309	PK
		V	7386.000	47.947	-3.897	44.050	54(note3)	-9.950	PK
		V	9848.000	44.158	-1.196	42.962	54(note3)	-11.038	PK

Note: 1. Measure Level = Reading Level + Factor.

Note: 2. The test frequency range, 9kHz~30MHz, 18GHz~25GHz, both of the worst case are at least 20dB below the limits, therefore no data appear in the report.

Note: 3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

Note: 4. The RBW set up , see Clause 6.6..

Product Name	: Wireless Adapter	Power	: AC 120V/60Hz
Test Site	: Mode 2	Test Site	: AC-5

Chain	CH	Antenna	Frequency (MHz)	Reading Level (dB μ V/m)	Factor (dB)	Measure Level (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Detector
Ant 1	1	H	4823.460	51.973	-7.731	44.242	54	-9.758	AV
		H	4825.000	62.197	-7.732	54.465	74	-19.535	PK
		H	7239.000	52.706	-4.452	48.254	54(note3)	-5.746	PK
		H	9653.000	46.883	-0.683	46.200	54(note3)	-7.800	PK
		V	4825.000	59.156	-7.732	51.424	54(note3)	-2.576	PK
		V	7236.000	50.280	-4.473	45.807	54(note3)	-8.193	PK
		V	9648.000	46.013	-0.989	45.023	54(note3)	-8.977	PK
	6	H	4874.060	60.807	-7.541	53.265	54	-0.735	AV
		H	4876.000	68.473	-7.514	60.959	74	-13.041	PK
		H	7313.820	50.542	-4.342	46.199	54	-7.801	AV
		H	7315.500	63.855	-4.343	59.512	74	-14.488	PK
		H	9748.000	48.607	-1.548	47.058	54(note3)	-6.942	PK
		V	4875.718	56.810	-7.518	49.292	54	-4.708	AV
		V	4876.000	65.745	-7.514	58.231	74	-15.769	PK
		V	7313.109	48.450	-4.343	44.107	54	-9.893	AV
		V	7324.000	60.497	-4.342	56.155	74	-17.845	PK
		V	9748.000	49.193	-1.548	47.644	54(note3)	-6.356	PK
	11	H	4924.000	59.634	-7.694	51.941	54(note3)	-2.059	PK
		H	7386.000	50.823	-3.897	46.926	54(note3)	-7.074	PK
		H	9848.000	44.473	-1.196	43.277	54(note3)	-10.723	PK
		V	4924.000	59.634	-7.694	51.941	54(note3)	-2.059	PK
		V	7386.000	50.823	-3.897	46.926	54(note3)	-7.074	PK
		V	9848.000	44.473	-1.196	43.277	54(note3)	-10.723	PK

Note: 1. Measure Level = Reading Level + Factor.

Note: 2. The test frequency range, 9kHz~30MHz, 18GHz~25GHz, both of the worst case are at least 20dB below the limits, therefore no data appear in the report.

Note: 3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

Note: 4. The RBW set up , see Clause 6.6..



Product Name	: Wireless Adapter	Power	: AC 120V/60Hz
Test Site	: Mode 3	Test Site	: AC-5

Chain	CH	Antenna	Frequency (MHz)	Reading Level (dB μ V/m)	Factor (dB)	Measure Level (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Detector
Ant 1	1	H	4816.500	60.328	-7.723	52.604	54(note3)	-1.396	PK
		H	7236.000	49.789	-4.473	45.316	54(note3)	-8.684	PK
		H	9648.000	45.021	-0.989	44.031	54(note3)	-9.969	PK
		V	4824.000	57.605	-7.731	49.874	54(note3)	-4.126	PK
		V	7236.000	49.127	-4.473	44.654	54(note3)	-9.346	PK
		V	9648.000	45.081	-0.989	44.091	54(note3)	-9.909	PK
	6	H	4873.400	60.000	-7.551	52.449	54	-1.551	AV
		H	4876.000	68.717	-7.514	61.203	74	-12.797	PK
		H	7307.000	62.181	-4.359	57.822	74	-16.178	PK
		H	7309.107	50.350	-4.353	45.997	54	-8.003	AV
		H	9748.000	48.700	-1.548	47.151	54(note3)	-6.849	PK
		V	4874.607	53.900	-7.534	46.366	54	-7.634	AV
		V	4876.000	63.353	-7.514	55.839	74	-18.161	PK
		V	7312.541	48.061	-4.343	43.718	54	-10.282	AV
		V	7315.500	60.175	-4.343	55.832	74	-18.168	PK
		V	9748.000	48.573	-1.548	47.024	54(note3)	-6.976	PK
	11	H	4924.000	55.317	-7.694	47.624	54(note3)	-6.376	PK
		H	7386.000	48.303	-3.897	44.406	54(note3)	-9.594	PK
		H	9848.000	44.400	-1.196	43.204	54(note3)	-10.796	PK
		V	4924.000	51.699	-7.694	44.006	54(note3)	-9.994	PK
		V	7386.000	47.485	-3.897	43.588	54(note3)	-10.412	PK
		V	9848.000	43.901	-1.196	42.705	54(note3)	-11.295	PK

Note: 1. Measure Level = Reading Level + Factor.

Note: 2. The test frequency range, 9kHz~30MHz, 18GHz~25GHz, both of the worst case are at least 20dB below the limits, therefore no data appear in the report.

Note: 3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

Note: 4. The RBW set up , see Clause 6.6..

Product Name	:	Wireless Adapter	Power	:	AC 120V/60Hz
Test Site	:	Mode 4	Test Site	:	AC-5

Chain	CH	Antenna	Frequency (MHz)	Reading Level (dB μ V/m)	Factor (dB)	Measure Level (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Detector
Ant 1	3	H	4844.000	54.627	-7.726	46.901	54(note3)	-7.099	PK
		H	7266.000	47.797	-4.218	43.579	54(note3)	-10.421	PK
		H	9688.000	44.332	-0.645	43.687	54(note3)	-10.313	PK
		V	4844.000	50.806	-7.726	43.080	54(note3)	-10.920	PK
		V	7266.000	47.910	-4.218	43.692	54(note3)	-10.308	PK
		V	9688.000	44.151	-0.645	43.506	54(note3)	-10.494	PK
	6	H	4867.500	60.040	-7.635	52.404	54(note3)	-1.596	PK
		H	7311.000	49.348	-4.348	45.000	54(note3)	-9.000	PK
		H	9748.000	45.397	-1.548	43.848	54(note3)	-10.152	PK
		V	4876.000	58.438	-7.514	50.924	54(note3)	-3.076	PK
		V	7311.000	47.139	-4.348	42.791	54(note3)	-11.209	PK
		V	9748.000	44.681	-1.548	43.132	54(note3)	-10.868	PK
	9	H	4904.000	51.697	-7.547	44.149	54(note3)	-9.851	PK
		H	7356.000	47.005	-4.309	42.696	54(note3)	-11.304	PK
		H	9808.000	44.269	-0.994	43.276	54(note3)	-10.724	PK
		V	4904.000	51.205	-7.547	43.657	54(note3)	-10.343	PK
		V	7356.000	46.985	-4.309	42.676	54(note3)	-11.324	PK
		V	9808.000	44.228	-0.994	43.235	54(note3)	-10.765	PK

Note: 1. Measure Level = Reading Level + Factor.

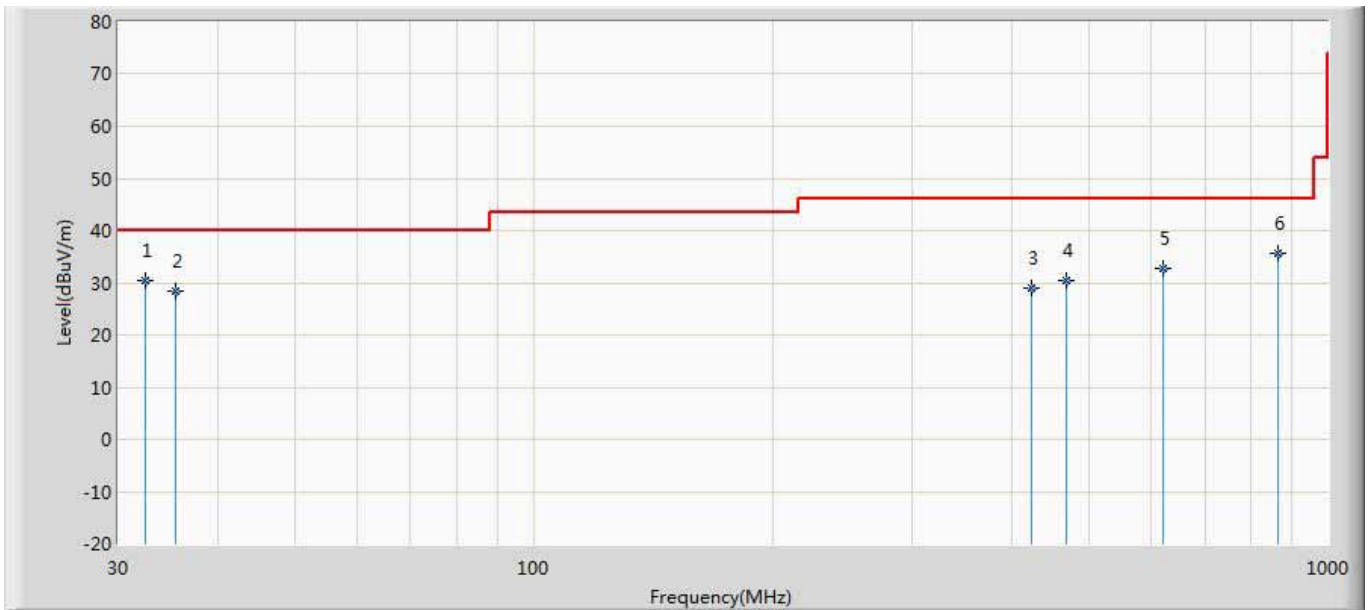
Note: 2. The test frequency range, 9kHz~30MHz, 18GHz~25GHz, both of the worst case are at least 20dB below the limits, therefore no data appear in the report.

Note: 3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

Note: 4. The RBW set up , see Clause 6.6..

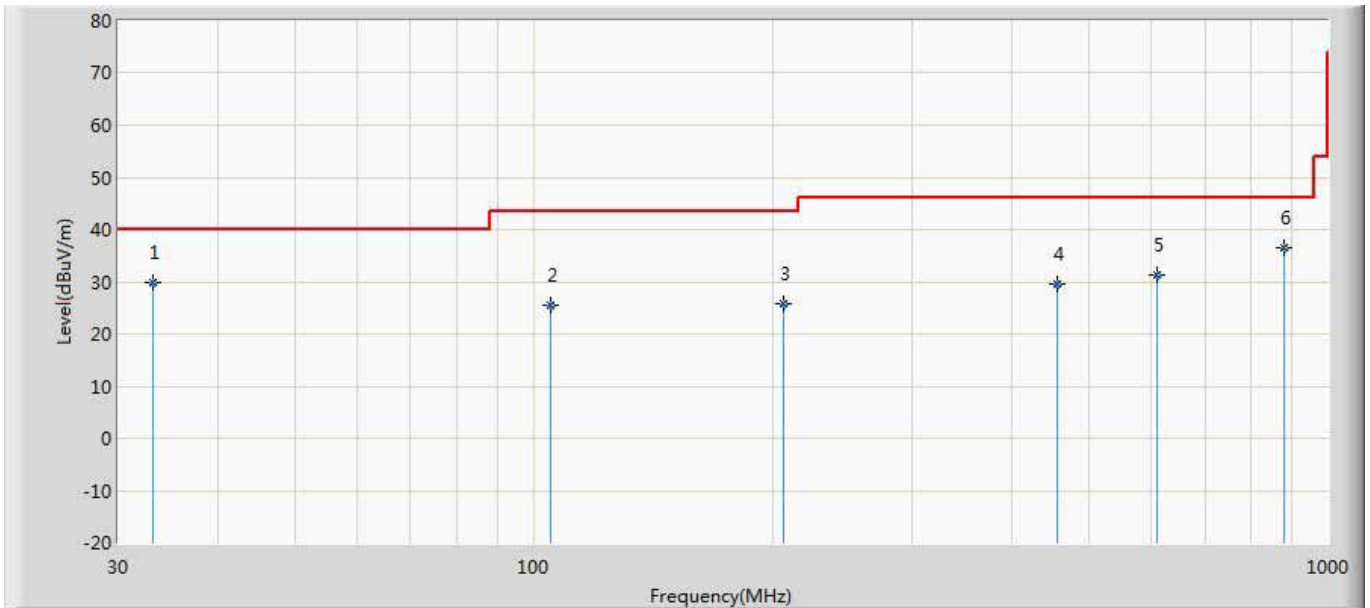
**The worst case of Radiated Emission below 1GHz:**

Engineer: Star	
Site: AC2	Time: 2017/02/27 - 17:34
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: AC2_3M(30-1000M)	Polarity: Horizontal
EUT: Wireless Adapter	Power: AC 120V/60Hz
Note: Mode 1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	32.425	30.578	3.200	-9.422	40.000	27.378	QP
2		35.456	28.534	1.700	-11.466	40.000	26.834	QP
3		423.092	28.851	1.600	-17.149	46.000	27.251	QP
4		468.198	30.327	3.600	-15.673	46.000	26.727	QP
5		620.972	32.635	1.800	-13.365	46.000	30.835	QP
6		863.958	35.683	2.800	-10.317	46.000	32.883	QP

Engineer: Star	
Site: AC2	Time: 2017/02/27 - 17:34
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: AC2_3M(30-1000M)	Polarity: Vertical
EUT: Wireless Adapter	Power: AC 120V/60Hz
Note: Mode 1	



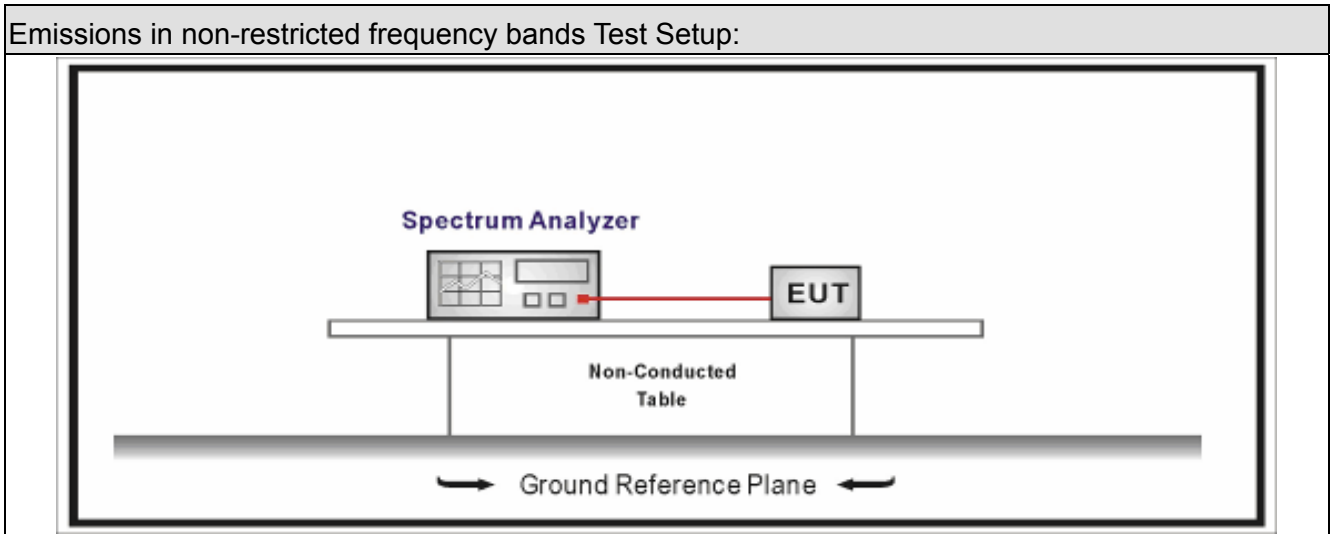
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		33.153	29.958	6.600	-10.042	40.000	23.359	QP
2		105.054	25.545	3.200	-17.955	43.500	22.344	QP
3		206.055	25.854	2.300	-17.646	43.500	23.554	QP
4		455.830	29.688	3.600	-16.312	46.000	26.088	QP
5		609.696	31.378	3.100	-14.622	46.000	28.277	QP
6	*	881.660	36.440	2.800	-9.560	46.000	33.640	QP

**5. Emissions in non-restricted frequency bands**

**5.1. Test Equipment**

Emissions in non-restricted frequency bands / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2017.01.04	2018.01.03
Spectrum Analyzer	Agilent	N9010A	MY48030494	2016.03.11	2017.03.10
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2016.04.10	2017.04.09
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

## 5.2. Test Setup



### 5.3. Limit

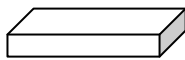
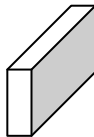
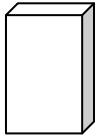
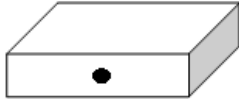


Un-Restricted Band Emissions Limit	
RF Output power (Detection methods)	Limit(dB)
RF Output power(Average detector)	30c(Note1)
RF Output power(PK detector)	20c(Note2)
<p>Note 1: If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 30 dBc).</p> <p>Note 2: If the maximum peak conducted output power procedure was used, then the peak output power 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 (i.e., 20 dBc).</p>	

### 5.4. Test Procedure

Test Method			
	References Rule	Chapter	Description
<input checked="" type="checkbox"/>	ANSI C63.10	11.11	Emissions in non-restricted frequency bands
	<input checked="" type="checkbox"/> ANSI C63.10	11.11.2	Reference level measurement
	<input checked="" type="checkbox"/> ANSI C63.10	11.11.3	Emission level measurement
<input type="checkbox"/>	ANSI C63.10	11.12	Emissions in restricted frequency bands
	<input type="checkbox"/> ANSI C63.10	11.12.1	Radiated emission measurements
	<input type="checkbox"/> ANSI C63.10	11.12.2.7	Radiated spurious emission test
<input type="checkbox"/>	ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
<input type="checkbox"/>	ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
<input type="checkbox"/>	ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz
	<input type="checkbox"/> ANSI C63.10	11.12.2	Antenna-port conducted measurements
	<input type="checkbox"/> ANSI C63.10	11.12.2.3	Quasi-peak measurement procedure
	<input type="checkbox"/> ANSI C63.10	11.12.2.4	Peak power measurement procedure
	<input type="checkbox"/> ANSI C63.10	11.12.2.5	Average power measurement procedures
	<input type="checkbox"/> ANSI C63.10	11.12.2.5.1	Trace averaging with continuous EUT transmission at full power
	<input type="checkbox"/> ANSI C63.10	11.12.2.5.2	Trace averaging across ON and OFF times of the EUT transmissions followed by duty cycle correction
	<input type="checkbox"/> ANSI C63.10	11.12.2.5.3	Reduced VBW averaging across ON and OFF times of the EUT transmissions with max hold



**5.5. EUT test Axis definition**

Item	Emissions in non-restricted frequency bands			
Device Category	<input checked="" type="checkbox"/>	Portable use		
	<input type="checkbox"/>	Mobile position use		
Test mode	Mode 1, Mode 2, Mode 3, Mode 4			
Test method	<input type="checkbox"/>	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>
	<input checked="" type="checkbox"/>	Conducted		
	<input checked="" type="checkbox"/>	Chain 1		
				
	<input type="checkbox"/>	Chain 1	Chain 2	
				
		Worst Chain <input type="checkbox"/>	Worst Chain <input type="checkbox"/>	
<input type="checkbox"/>	Chain 1	Chain 2	Chain 3	
				
	Worst Chain <input type="checkbox"/>	Worst Chain <input type="checkbox"/>	Worst Chain <input type="checkbox"/>	

### 5.6. Test Result

Product Name	: Wireless Adapter	Test Power	: AC 120V/60Hz
Test Site	: TR8		

Mode	Channel	Test Frequency (MHz)	In-Band PSD[a] (dBm/100kHz)	Frequency (MHz)	Out-Band PSD[b] (dBm/100kHz)	[a]-[b] (dB)	Limit (dB)	Result
1	01	2412	3.204	2338.70	-34.045	37.249	>20	Pass
1	11	2462	0.937	2509.90	-55.74	56.677	>20	Pass
2	01	2412	3.435	2399.20	-23.976	27.411	>20	Pass
2	11	2462	2.616	2546.30	-53.526	56.142	>20	Pass
3	01	2412	2.008	2399.13	-26.414	28.422	>20	Pass
3	11	2462	-0.038	2547.90	-55.49	55.452	>20	Pass
4	03	2422	-4.053	2398.27	-31.391	27.338	>20	Pass
4	09	2452	-3.086	2500.00	-50.249	47.163	>20	Pass

Note: The worst case of Emissions in non-restricted frequency bands as below:

Mode 4 CH03(2422MHz)

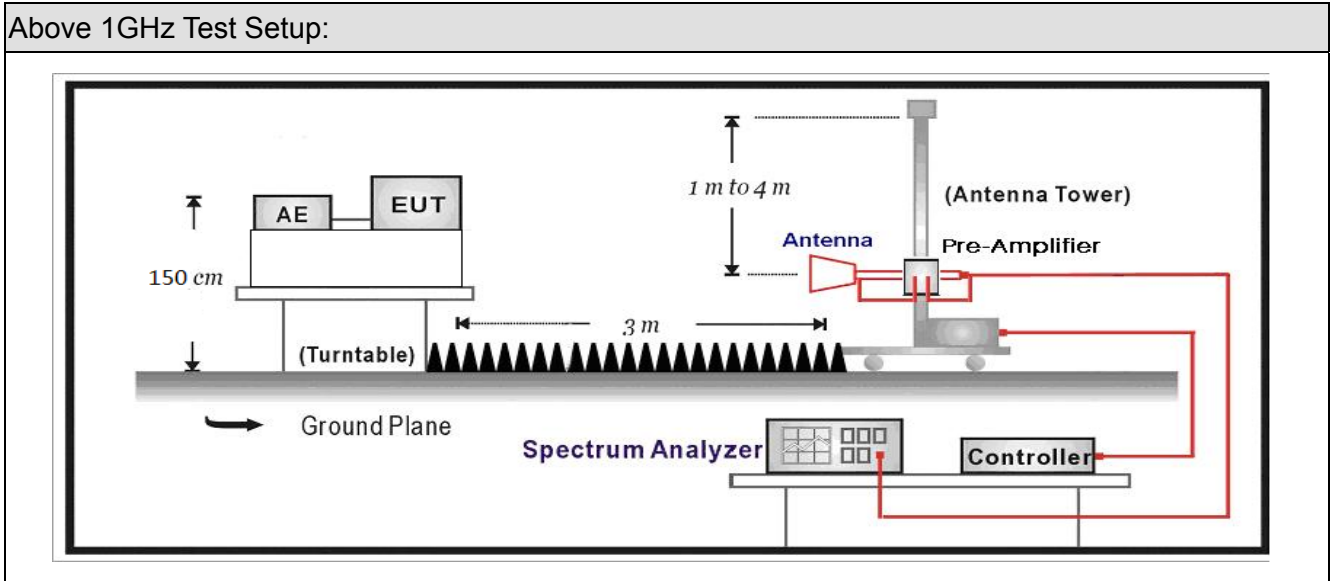


## 6. Radiated Emission Band Edge

### 6.1. Test Equipment

Radiated Emission(Above 1GHz) / AC-5					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2017.01.04	2018.01.03
Preamplifier	Miteq	NSP1800-25	1364185	2016.05.06	2017.05.05
Preamplifier	QuieTek	AP-040G	CHM-0906001	2016.05.06	2017.05.05
DRG Horn	ETS-Lindgren	3117	00123988	2017.01.22	2018.01.21
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2016.11.25	2017.11.24
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C1	2016.03.02	2017.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2016.03.02	2017.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	AC5-C3	2016.03.02	2017.03.01
EMI Receiver	Agilent	N9038A	MY51210196	2016.06.10	2017.06.09
Temperature/Humidity Meter	Zhichen	ZC1-2	AC5-TH	2017.01.04	2018.01.03
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

### 6.2. Test Setup



### 6.3. Limit

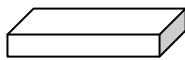
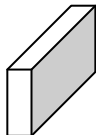
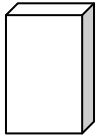
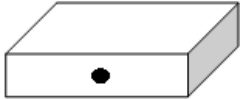


Band edge Limit				
Frequency bands (MHz)	Detector	Limit (dB $\mu$ V/m)	RBW (MHz)	Distance (m)
2310-2390	PK	74	1	3
2483.5-2500	AV	54	1	3

Note: The field strength of emissions appearing within these frequency bands shall not exceed the limits.

### 6.4. Test Procedure

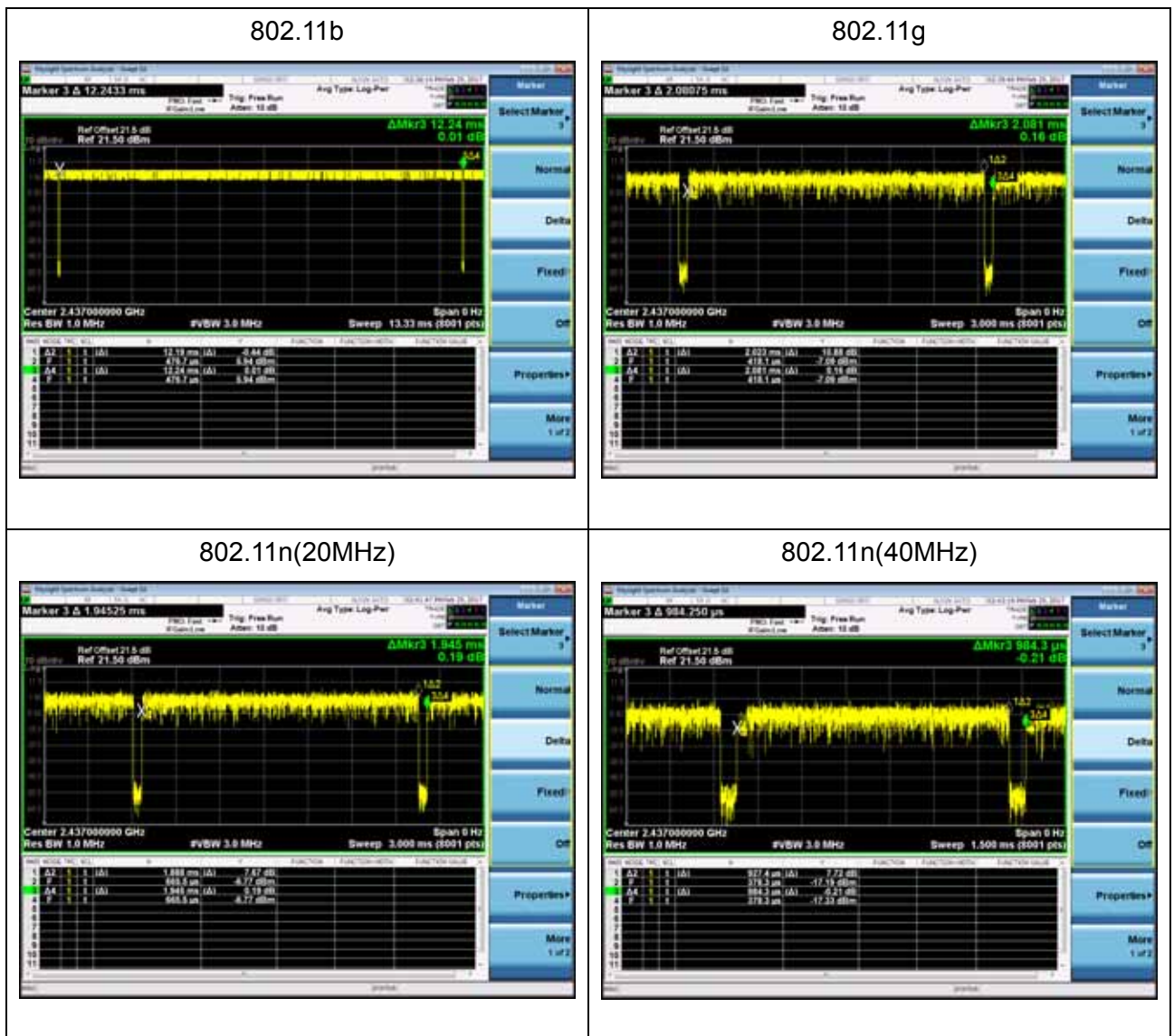
Test Method			
	References Rule	Chapter	Description
<input checked="" type="checkbox"/>	ANSI C63.10	6.10	Band-edge testing
	<input checked="" type="checkbox"/> ANSI C63.10	6.10.5	Restricted-band band-edge measurements
	<input type="checkbox"/> ANSI C63.10	6.10.6	Marker-delta method
<input checked="" type="checkbox"/>	ANSI C63.10	11.12	Emissions in restricted frequency bands
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.1	Radiated emission measurements
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.2.7	Radiated spurious emission test
<input type="checkbox"/>	ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
<input type="checkbox"/>	ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
<input checked="" type="checkbox"/>	ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz
	<input type="checkbox"/> ANSI C63.10	11.12.2	Antenna-port conducted measurements
	<input type="checkbox"/> ANSI C63.10	11.12.2.3	Quasi-peak measurement procedure
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.2.4	Peak power measurement procedure
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.2.5	Average power measurement procedures
	<input type="checkbox"/> ANSI C63.10	11.12.2.5.1	Trace averaging with continuous EUT transmission at full power
	<input type="checkbox"/> ANSI C63.10	11.12.2.5.2	Trace averaging across ON and OFF times of the EUT transmissions followed by duty cycle correction
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.2.5.3	Reduced VBW averaging across ON and OFF times of the EUT transmissions with max hold

**6.5. EUT test definition**

Item	Emissions in non-restricted frequency bands			
Device Category	<input checked="" type="checkbox"/>	Portable use		
	<input type="checkbox"/>	Mobile position use		
Test mode	Mode 1, Mode 2, Mode 3, Mode 4			
Test method	<input checked="" type="checkbox"/>	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis <input checked="" type="checkbox"/>	Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>
	<input type="checkbox"/>	Conducted		
	<input type="checkbox"/>	Chain 1		
				
	<input type="checkbox"/>	Chain 1	Chain 2	
				
		Worst Chain <input type="checkbox"/>	Worst Chain <input type="checkbox"/>	
	<input type="checkbox"/>	Chain 1	Chain 2	Chain 3
				
	Worst Chain <input type="checkbox"/>	Worst Chain <input type="checkbox"/>	Worst Chain <input type="checkbox"/>	

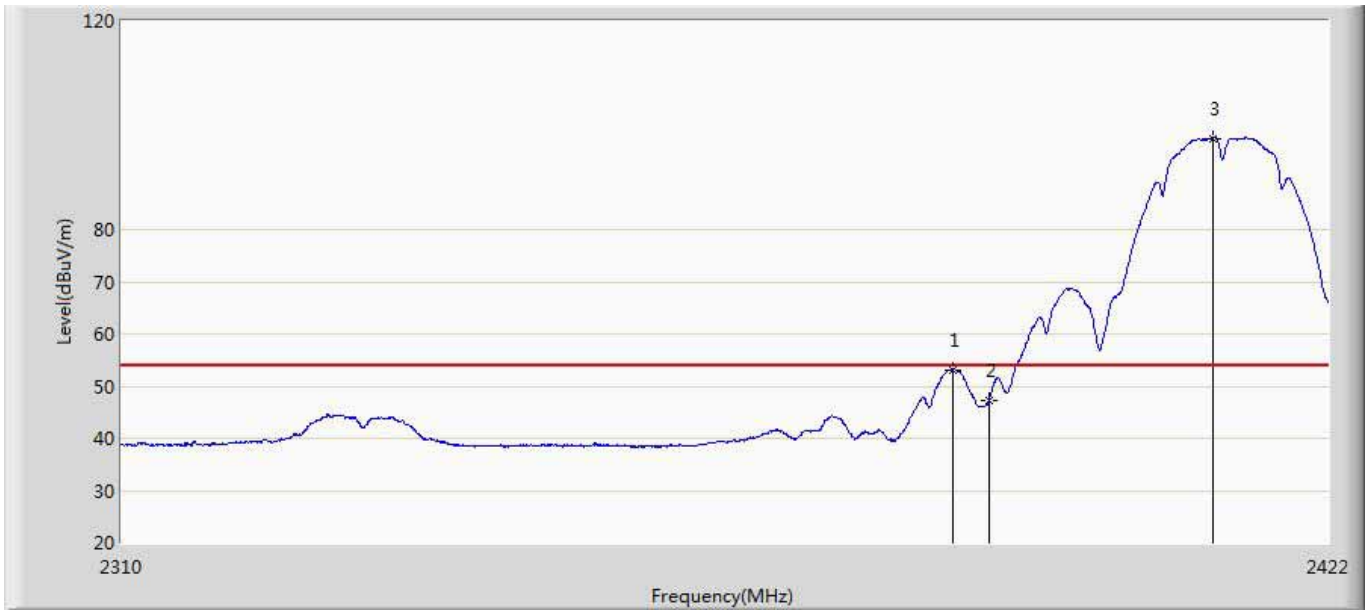
## 6.6. Duty Cycle

Test Mode	Tx On (ms)	Tx Off (ms)	VBW	Tx On + Tx Off (ms)	Duty Cycle
802.11b	12.19	0.050	125Hz	12.24	99.59%
802.11g	2.023	0.058	510Hz	2.08	97.21%
802.11n(20MHz)	1.888	0.057	550Hz	1.94	97.07%
802.11n(40MHz)	0.927	0.056	1.2kHz	0.98	94.22%



### 6.7. Test Result

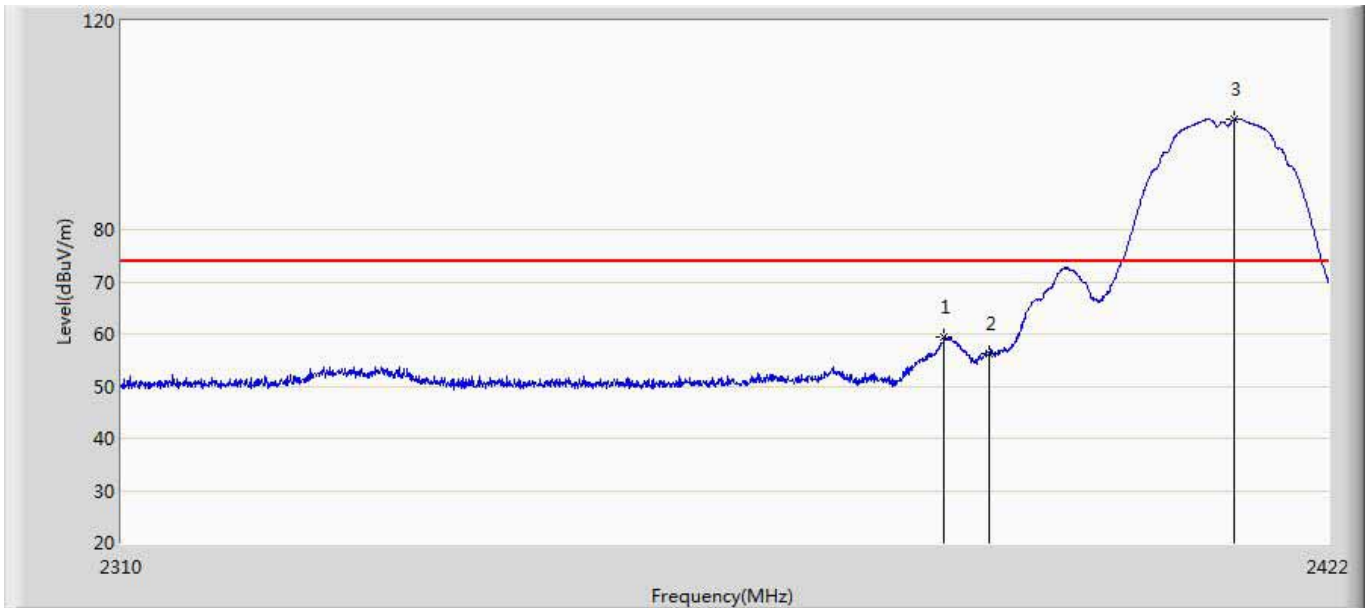
Engineer: Scott	
Site: AC5	Time: 2017/02/23 - 20:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 1:Transmit at 2412MHz by 802.11b	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2386.608	53.112	17.438	-0.888	54.000	35.674	AV
2		2390.000	47.238	11.556	-6.762	54.000	35.682	AV
3	*	2411.080	97.522	61.784	43.522	54.000	35.737	AV

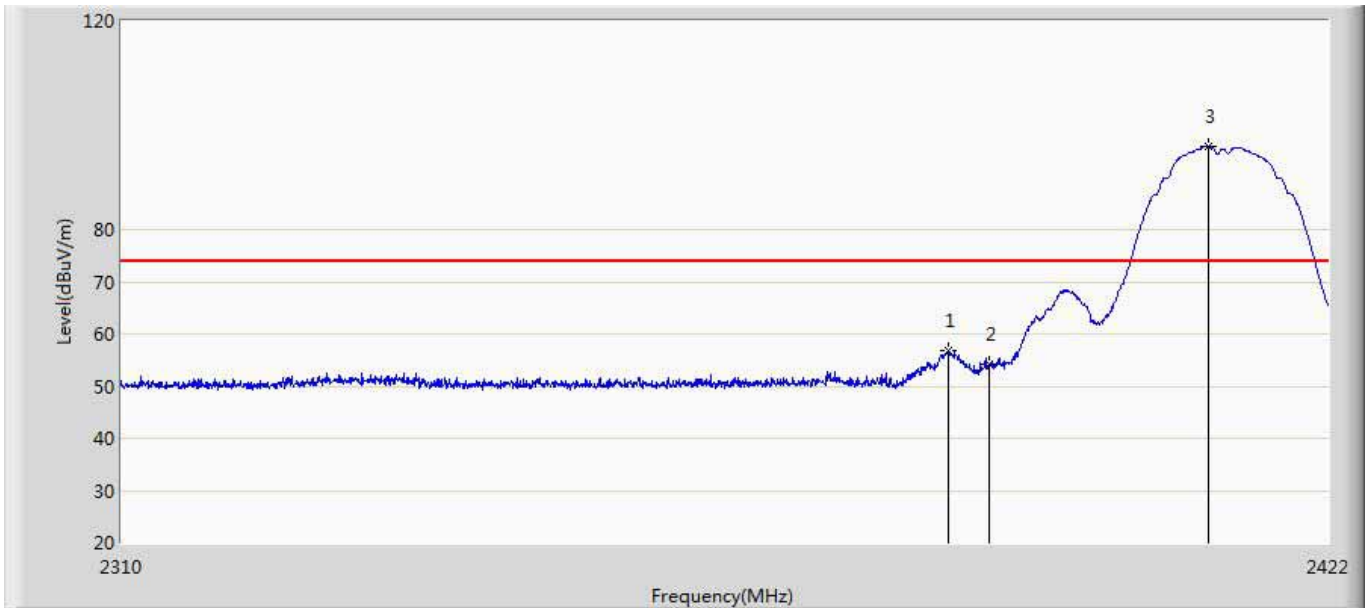


Engineer: Scott	
Site: AC5	Time: 2017/02/23 - 20:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 1: Transmit at 2412MHz by 802.11b	



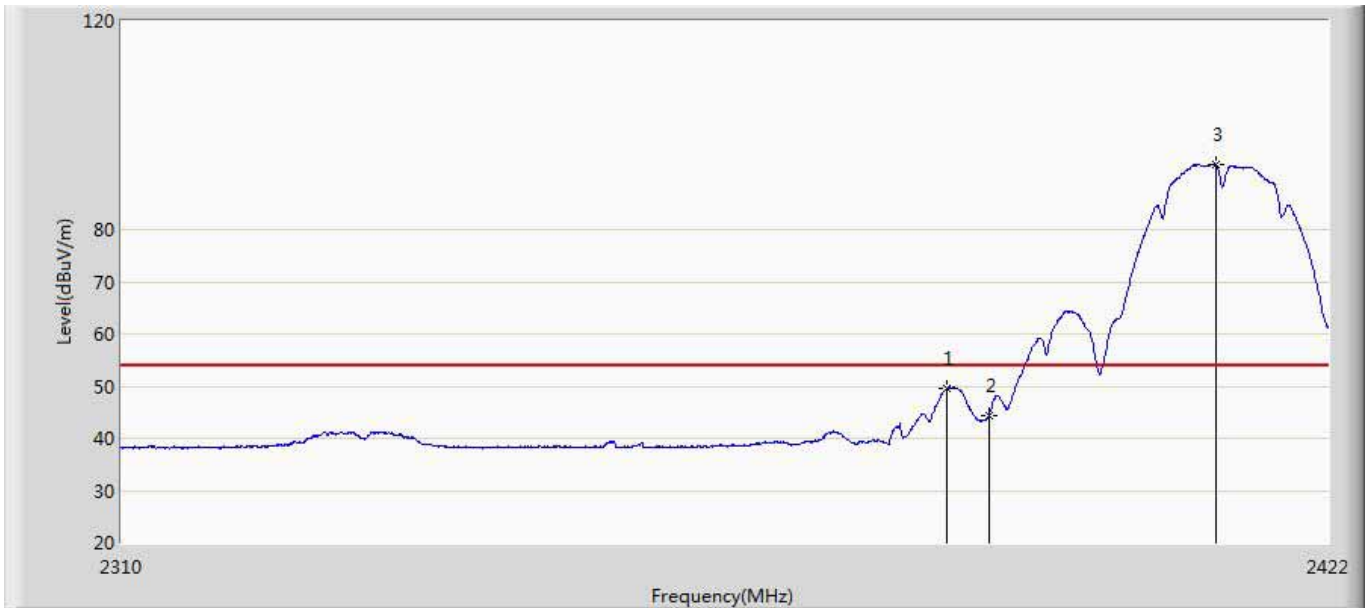
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2385.768	59.557	23.885	-14.443	74.000	35.673	PK
2		2390.000	56.321	20.639	-17.679	74.000	35.682	PK
3	*	2413.152	101.118	65.372	27.118	74.000	35.747	PK

Engineer: Scott	
Site: AC5	Time: 2017/02/23 - 20:30
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 1:Transmit at 2412MHz by 802.11b	



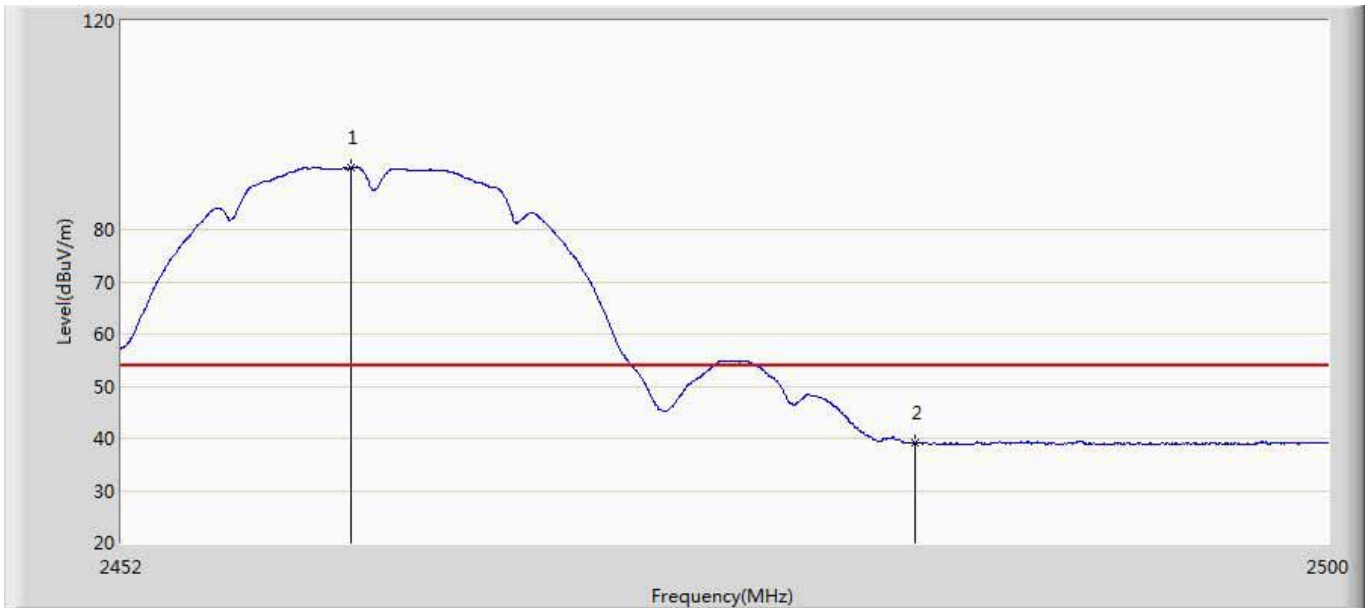
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2386.160	56.894	21.221	-17.106	74.000	35.673	PK
2		2390.000	54.094	18.412	-19.906	74.000	35.682	PK
3	*	2410.632	95.951	60.215	21.951	74.000	35.737	PK

Engineer: Scott	
Site: AC5	Time: 2017/02/23 - 20:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 1:Transmit at 2412MHz by 802.11b	



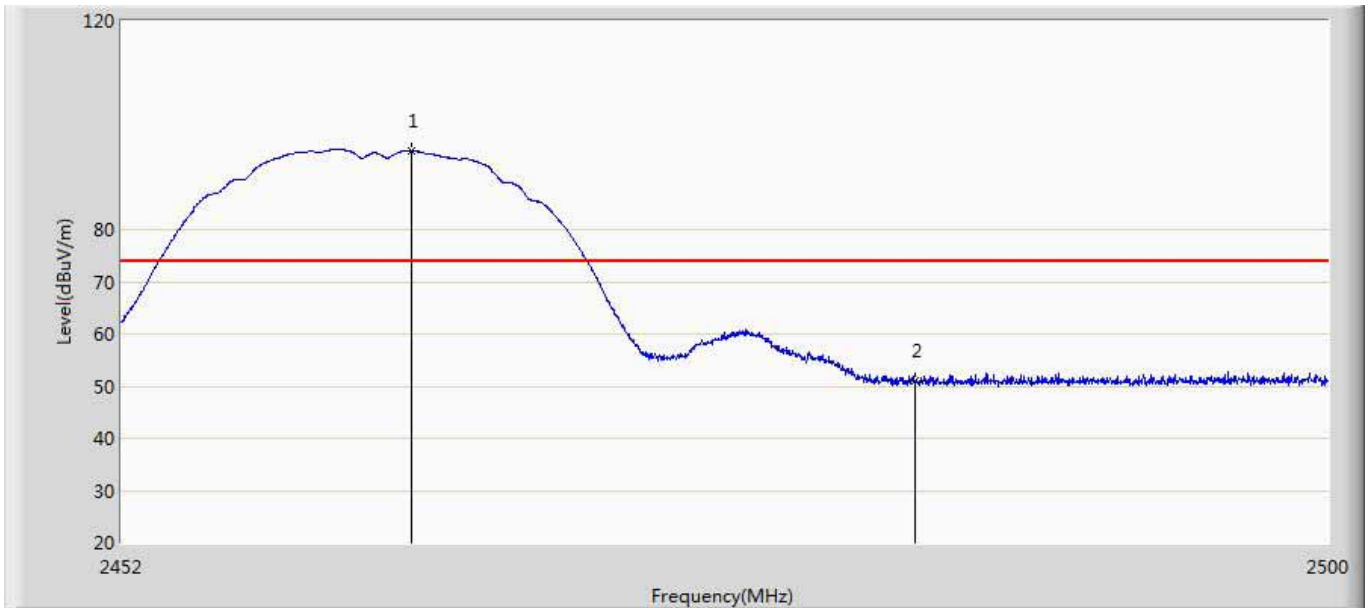
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2386.104	49.665	13.992	-4.335	54.000	35.673	AV
2		2390.000	44.368	8.686	-9.632	54.000	35.682	AV
3	*	2411.360	92.539	56.800	38.539	54.000	35.738	AV

Engineer: Scott	
Site: AC5	Time: 2017/02/23 - 22:06
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 1: Transmit at 2462MHz by 802.11b	



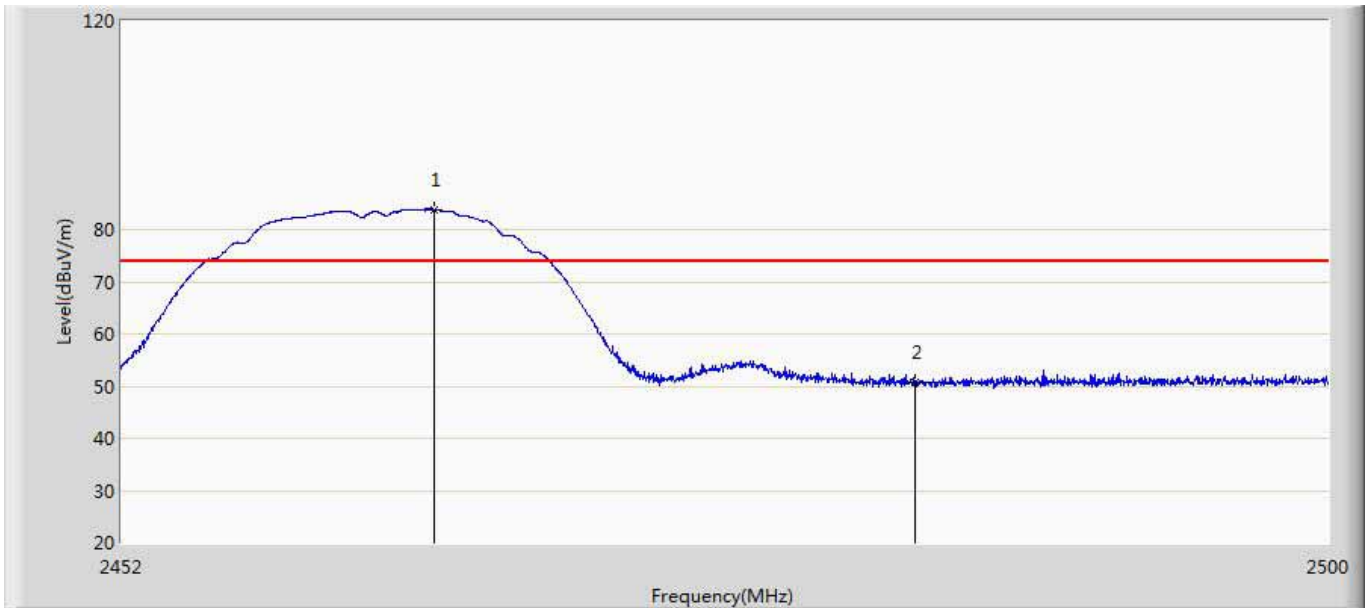
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2461.072	91.895	56.021	37.895	54.000	35.874	AV
2		2483.500	39.038	3.146	-14.962	54.000	35.891	AV

Engineer: Scott	
Site: AC5	Time: 2017/02/23 - 22:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 1:Transmit at 2462MHz by 802.11b	



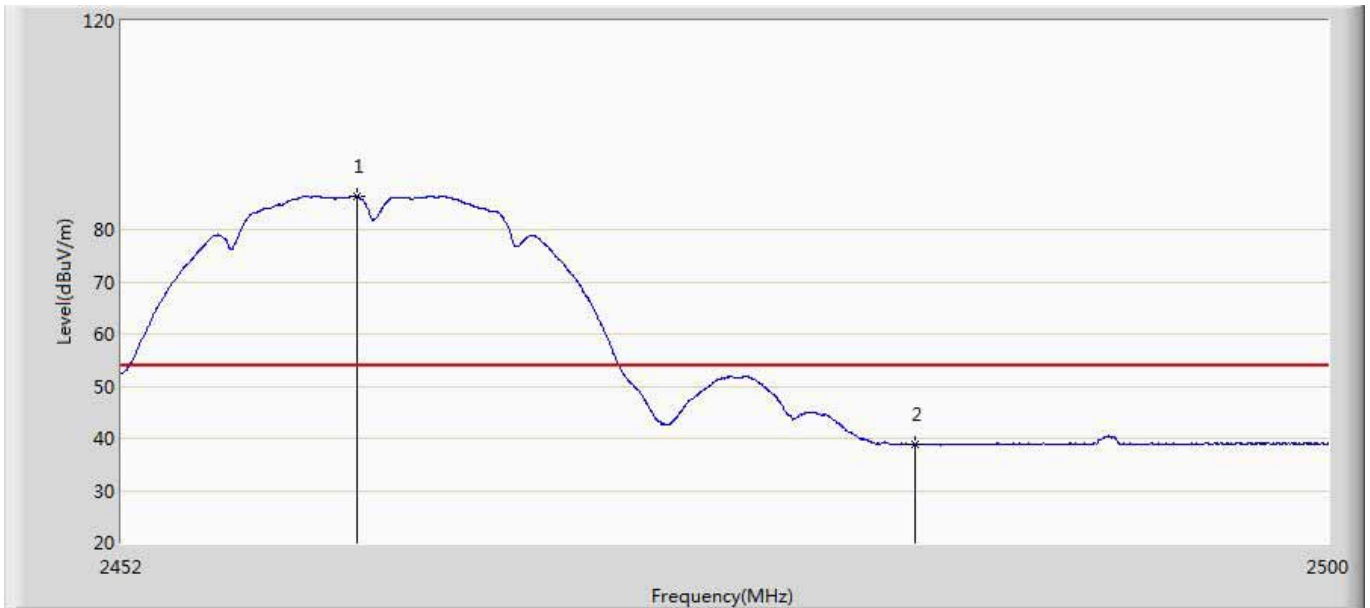
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2463.448	95.000	59.123	21.000	74.000	35.877	PK
2		2483.500	50.944	15.052	-23.056	74.000	35.891	PK

Engineer: Scott	
Site: AC5	Time: 2017/02/23 - 22:10
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 1:Transmit at 2462MHz by 802.11b	



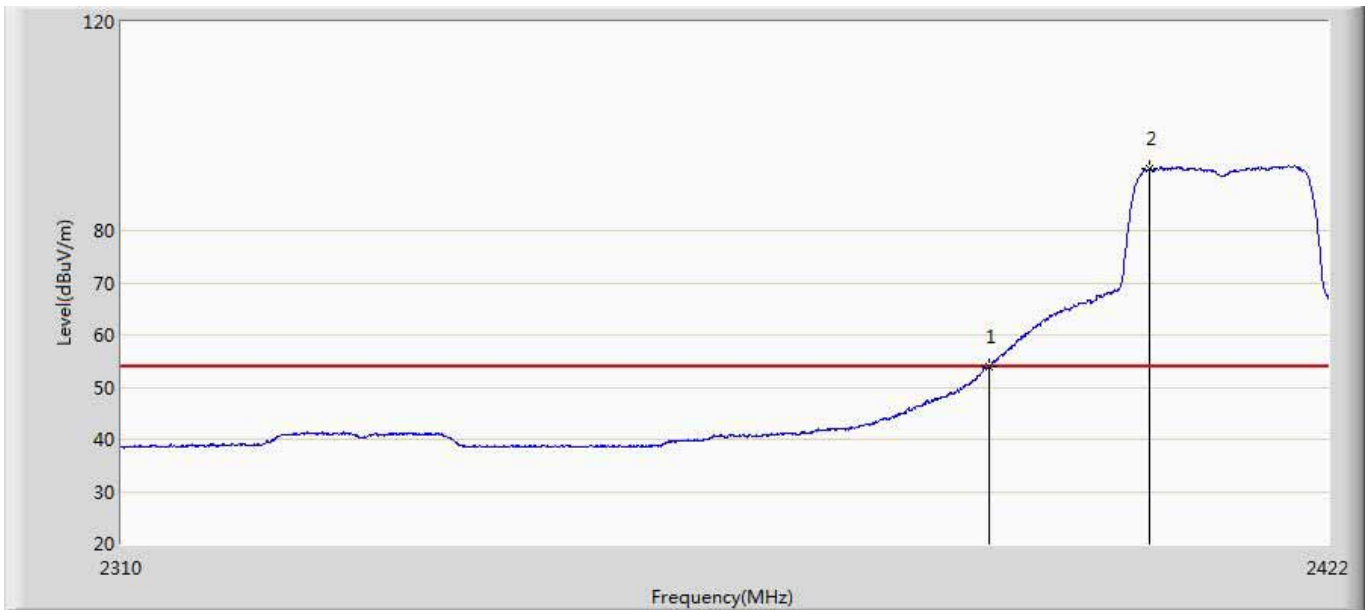
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2464.360	83.864	47.988	9.864	74.000	35.876	PK
2		2483.500	50.752	14.860	-23.248	74.000	35.891	PK

Engineer: Scott	
Site: AC5	Time: 2017/02/23 - 22:12
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 1: Transmit at 2462MHz by 802.11b	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2461.288	86.372	50.497	32.372	54.000	35.875	AV
2		2483.500	38.789	2.897	-15.211	54.000	35.891	AV

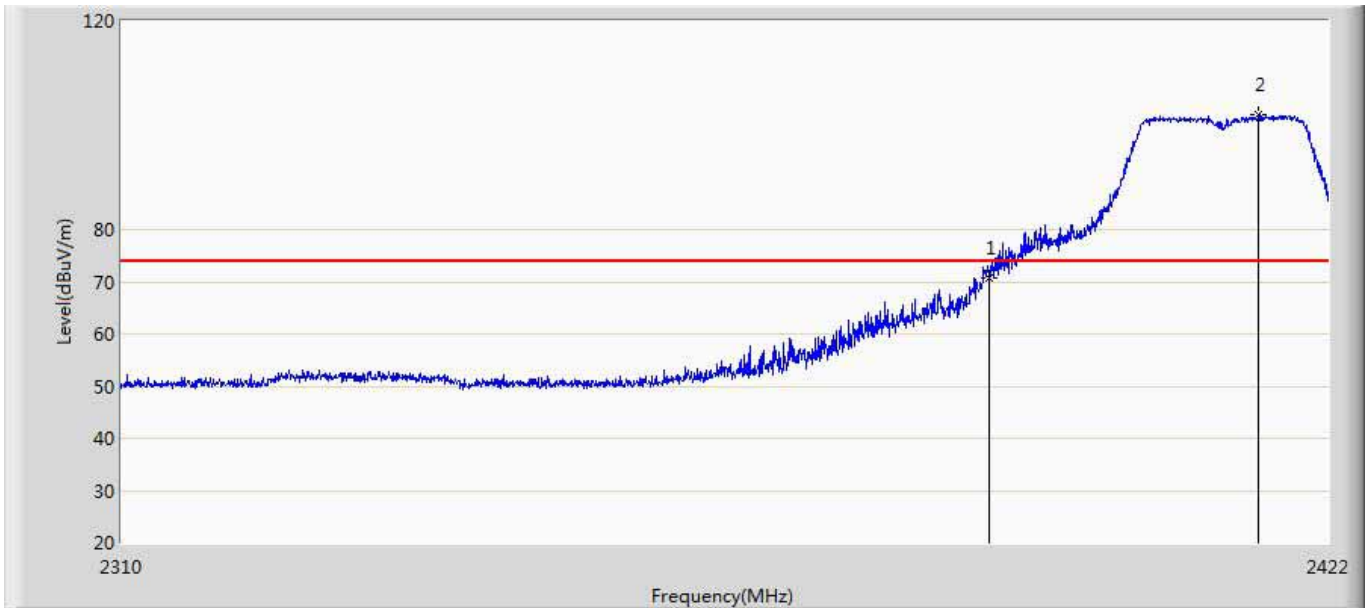
Engineer: Scott	
Site: AC5	Time: 2017/02/23 - 21:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 2:Transmit at 2412MHz by 802.11g	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.943	18.261	-0.057	54.000	35.682	AV
2	*	2405.144	91.902	56.181	37.902	54.000	35.721	AV

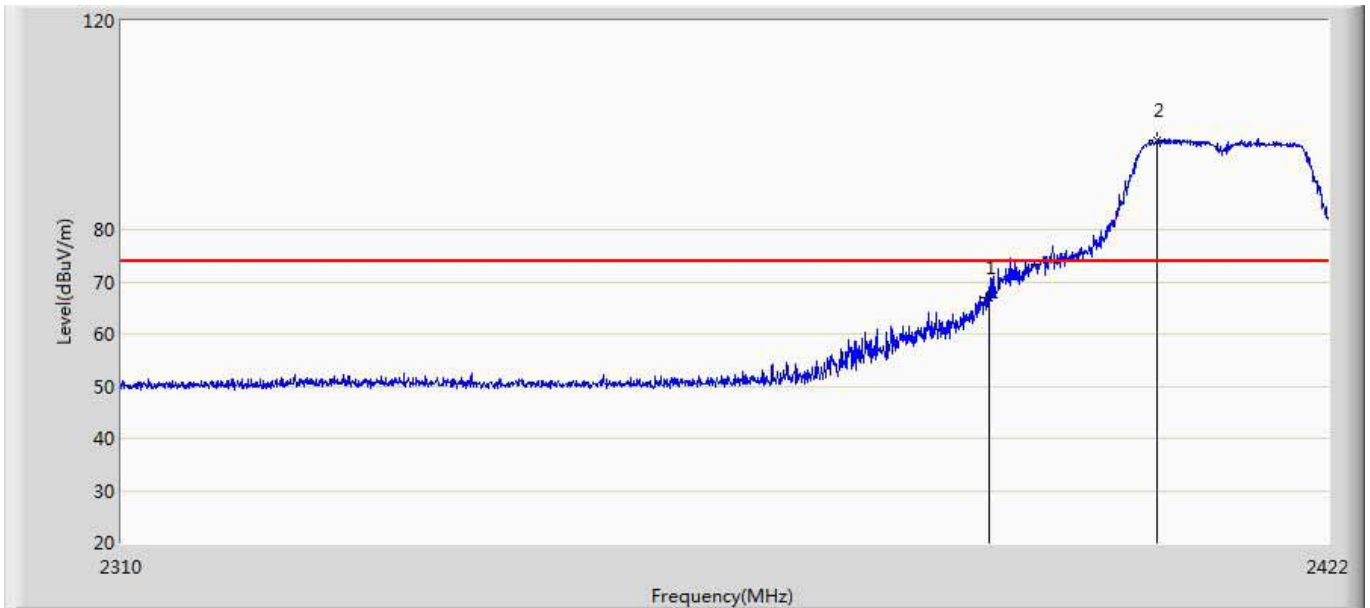


Engineer: Scott	
Site: AC5	Time: 2017/02/23 - 21:42
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 2:Transmit at 2412MHz by 802.11g	



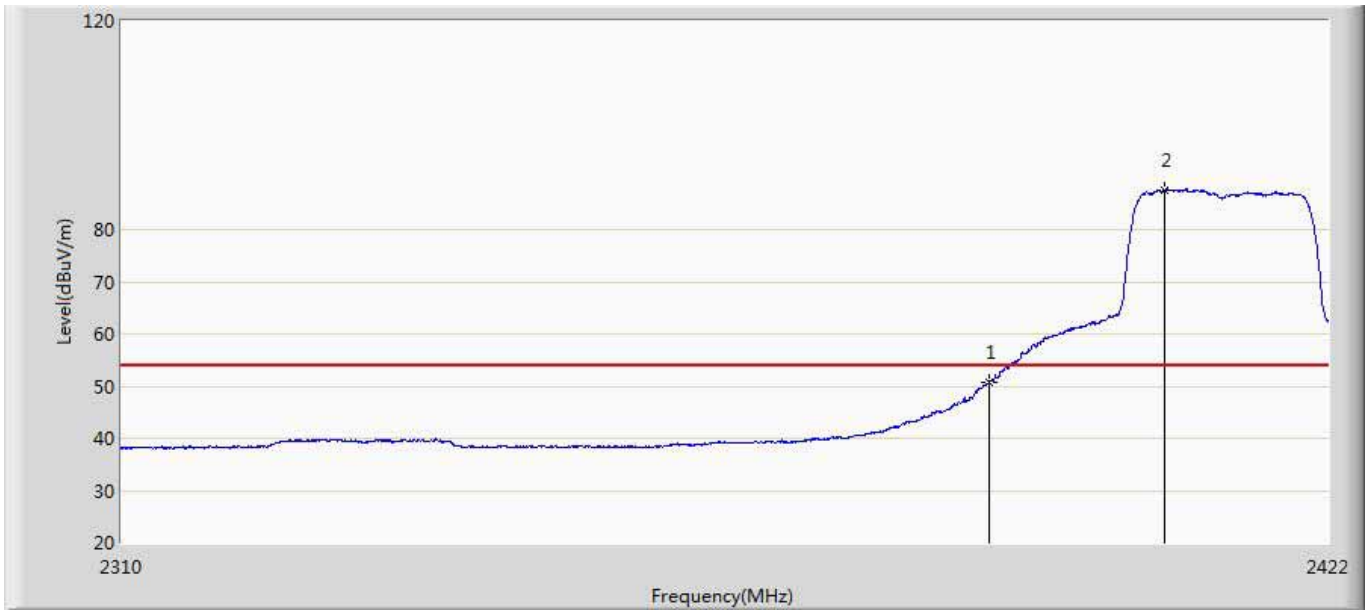
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	70.782	35.100	-3.218	74.000	35.682	PK
2	*	2415.448	102.159	66.403	28.159	74.000	35.755	PK

Engineer: Scott	
Site: AC5	Time: 2017/02/23 - 21:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 2:Transmit at 2412MHz by 802.11g	



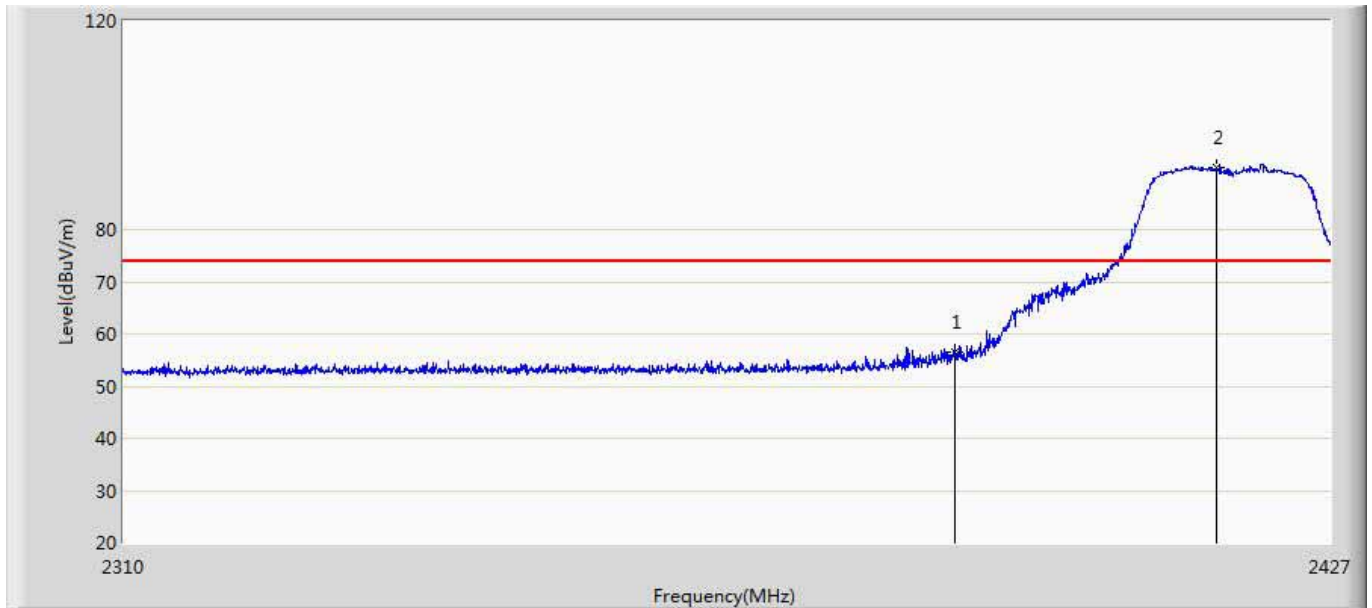
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	67.040	31.358	-6.960	74.000	35.682	PK
2	*	2405.816	97.229	61.506	23.229	74.000	35.723	PK

Engineer: Scott	
Site: AC5	Time: 2017/02/23 - 21:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 2:Transmit at 2412MHz by 802.11g	



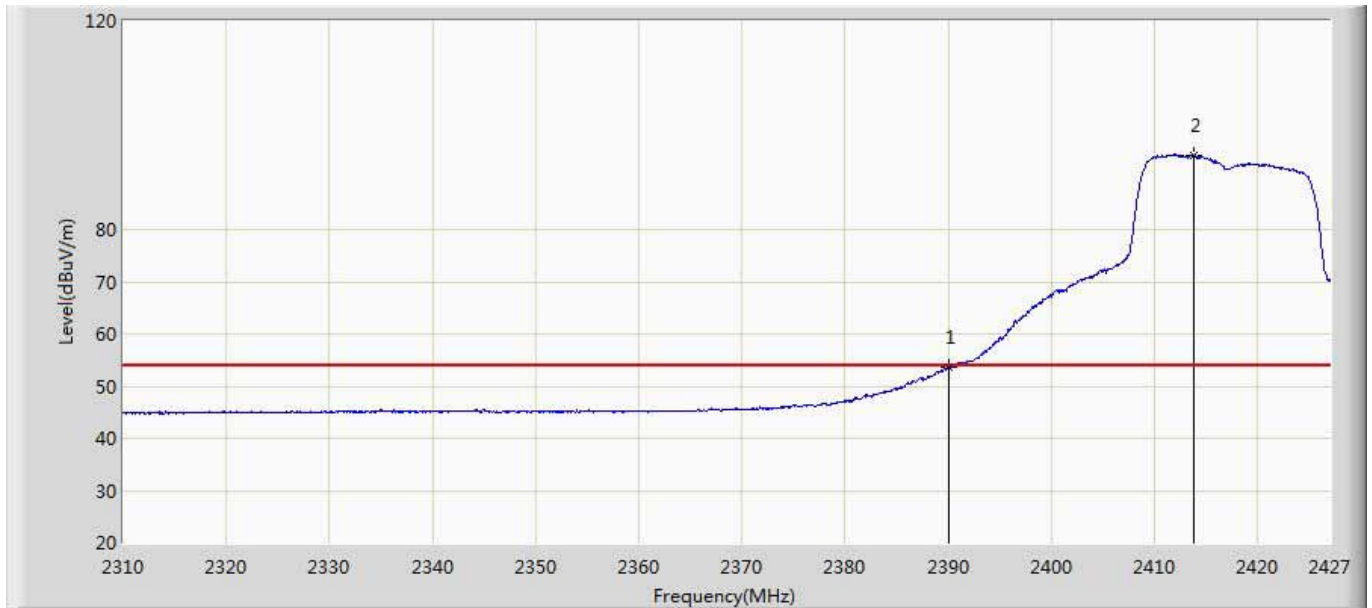
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	50.743	15.061	-3.257	54.000	35.682	AV
2	*	2406.600	87.577	51.852	33.577	54.000	35.725	AV

Engineer: Scott	
Site: AC5	Time: 2017/03/01 - 21:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 2:Transmit at 2417MHz by 802.11g	



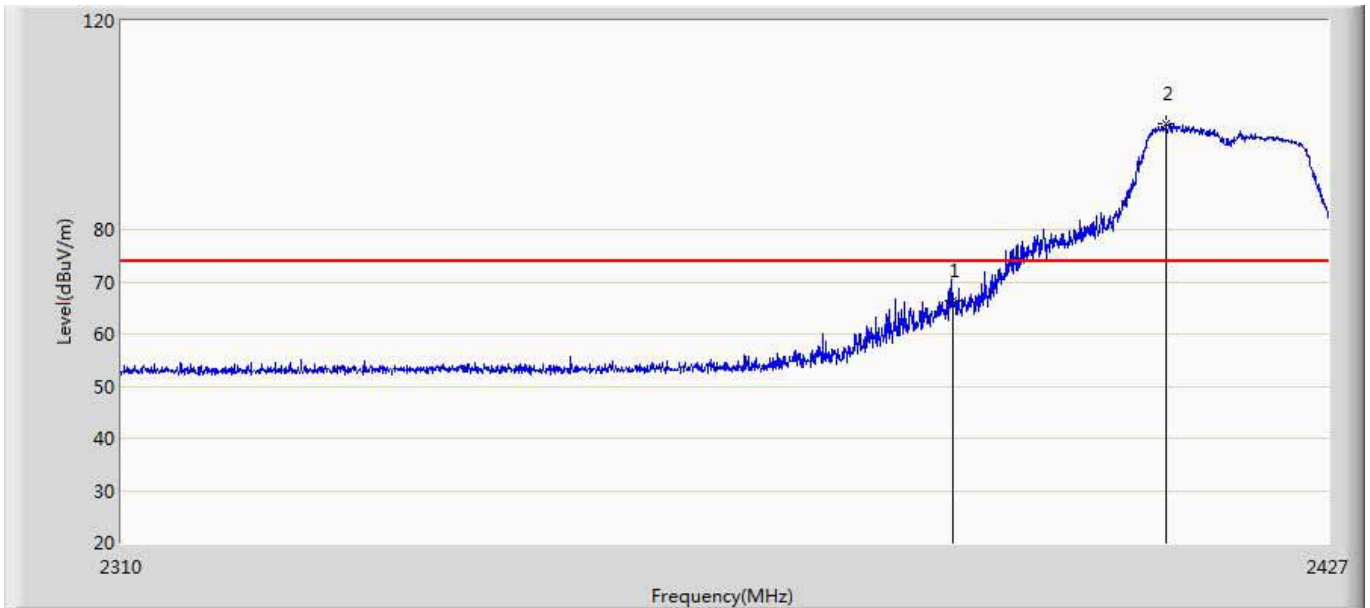
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	56.512	20.830	-17.488	74.000	35.682	PK
2	*	2415.768	91.926	56.169	17.926	74.000	35.757	PK

Engineer: Scott	
Site: AC5	Time: 2017/03/01 - 22:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 2:Transmit at 2417MHz by 802.11g	



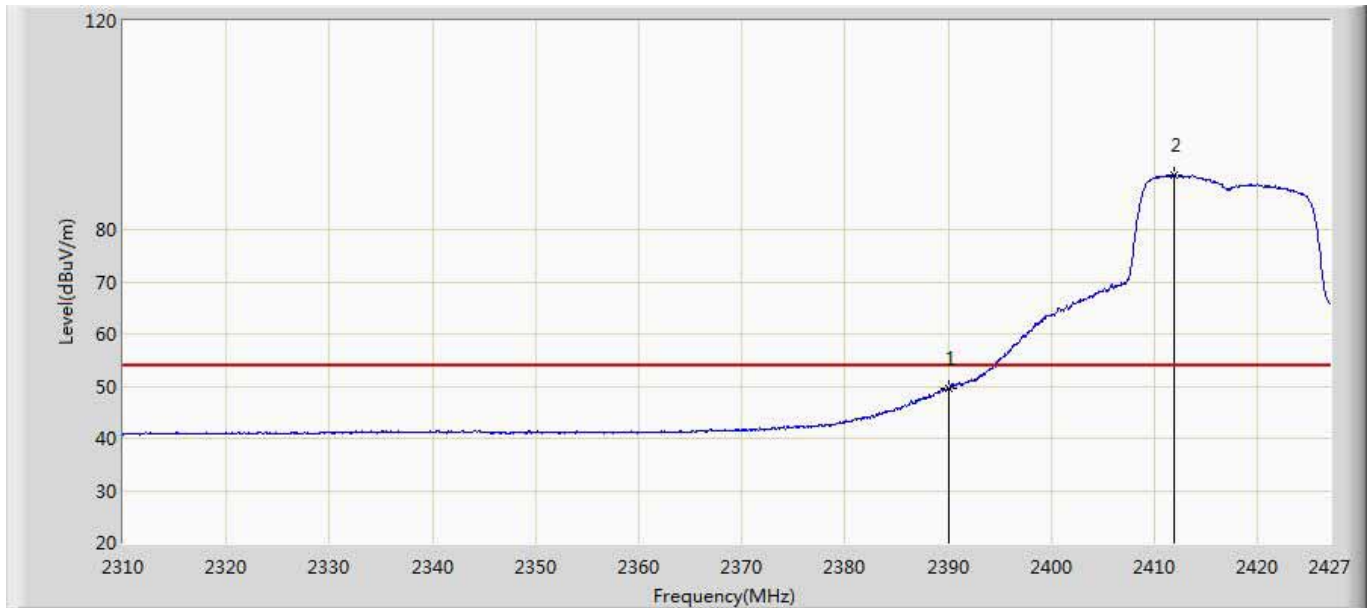
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.505	17.823	-0.495	54.000	35.682	AV
2	*	2413.779	94.247	58.498	40.247	54.000	35.748	AV

Engineer: Scott	
Site: AC5	Time: 2017/03/01 - 22:30
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 2:Transmit at 2417MHz by 802.11g	



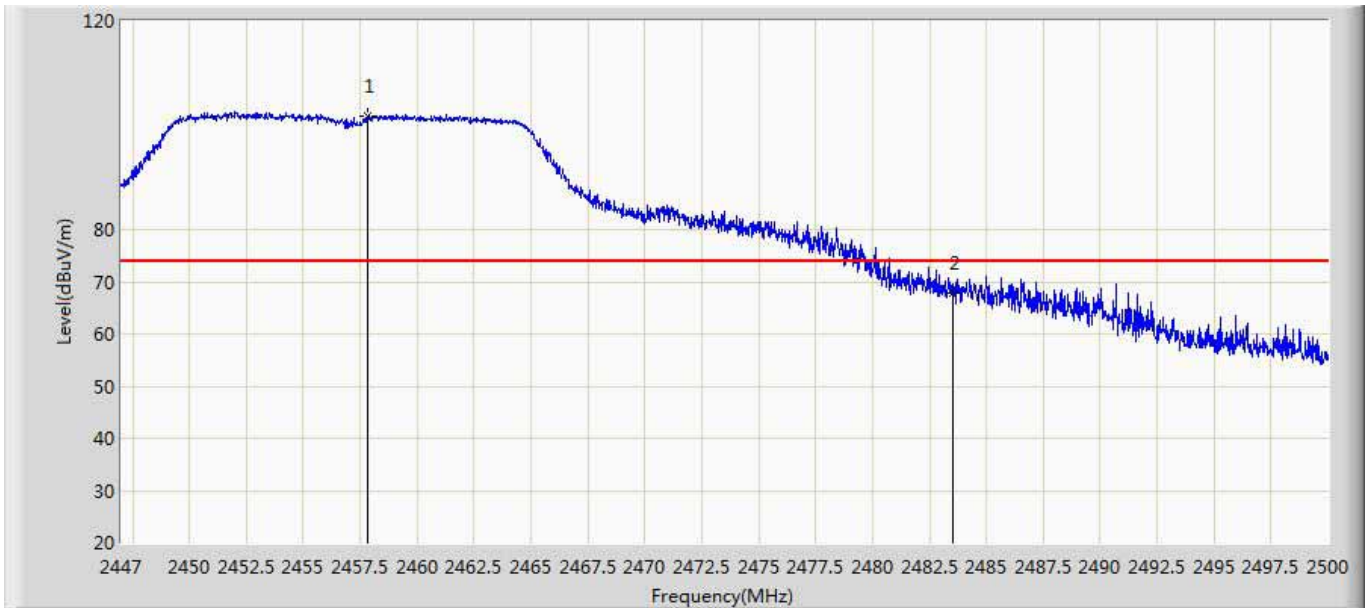
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	66.339	30.657	-7.661	74.000	35.682	PK
2	*	2410.971	100.168	64.431	26.168	74.000	35.737	PK

Engineer: Scott	
Site: AC5	Time: 2017/03/01 - 22:31
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 2:Transmit at 2417MHz by 802.11g	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	49.629	13.947	-4.371	54.000	35.682	AV
2	*	2411.907	90.471	54.730	36.471	54.000	35.741	AV

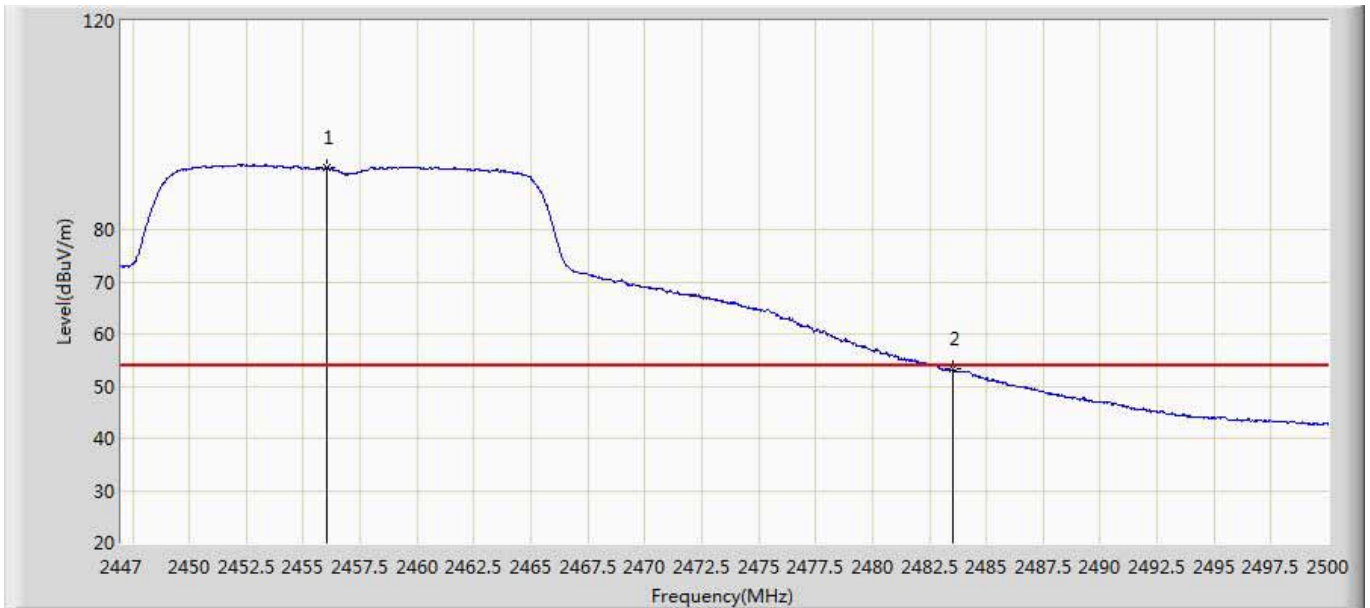
Engineer: Scott	
Site: AC5	Time: 2017/03/01 - 22:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 2:Transmit at 2457MHz by 802.11g	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2457.812	101.805	65.945	27.805	74.000	35.860	PK
2		2483.500	67.900	32.008	-6.100	74.000	35.891	PK

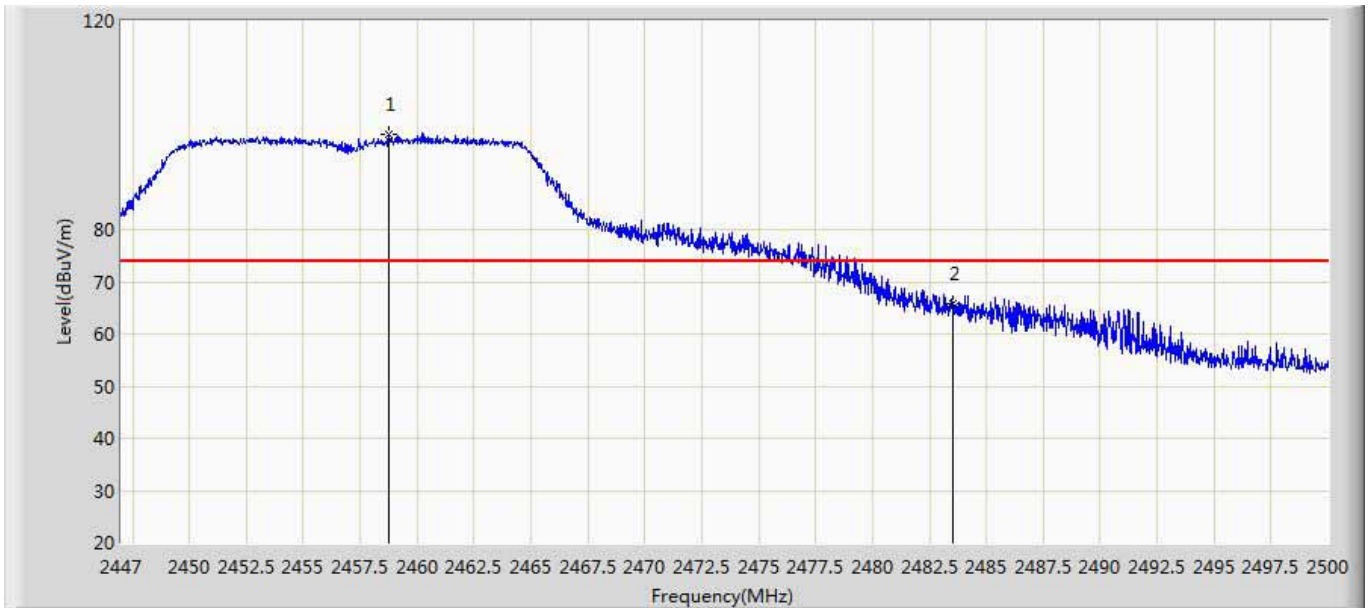


Engineer: Scott	
Site: AC5	Time: 2017/03/01 - 22:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 2:Transmit at 2457MHz by 802.11g	



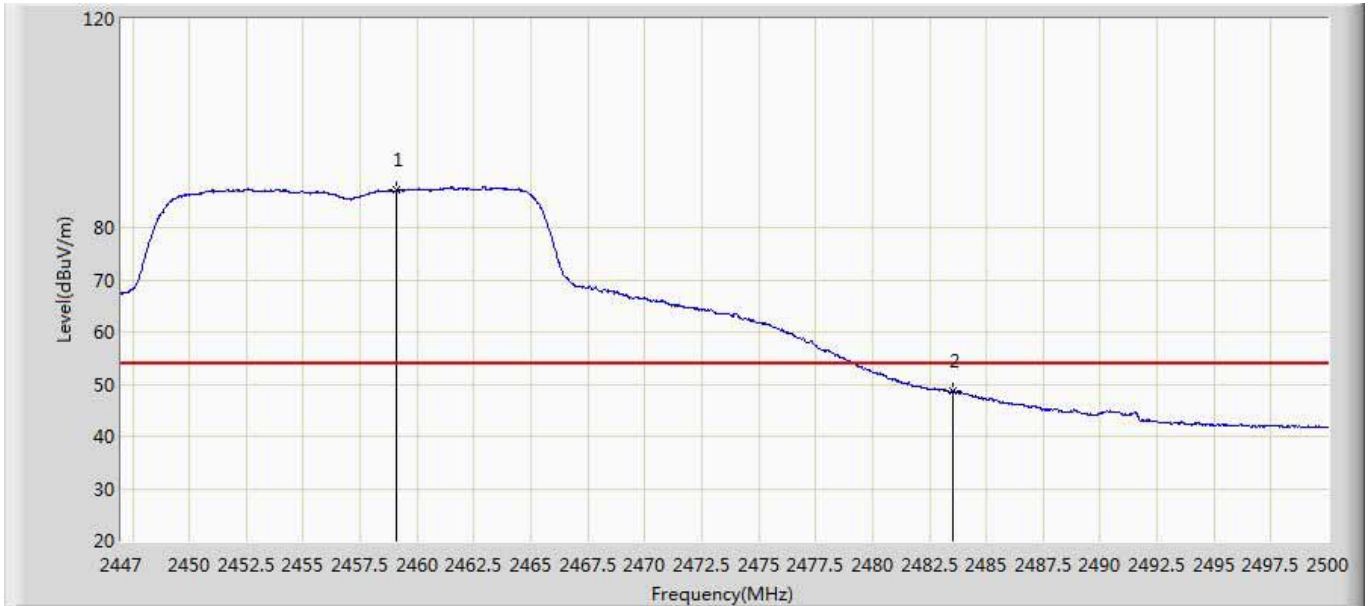
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2456.010	91.911	56.059	37.911	54.000	35.852	AV
2		2483.500	53.218	17.326	-0.782	54.000	35.891	AV

Engineer: Scott	
Site: AC5	Time: 2017/03/01 - 22:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 2:Transmit at 2457MHz by 802.11g	



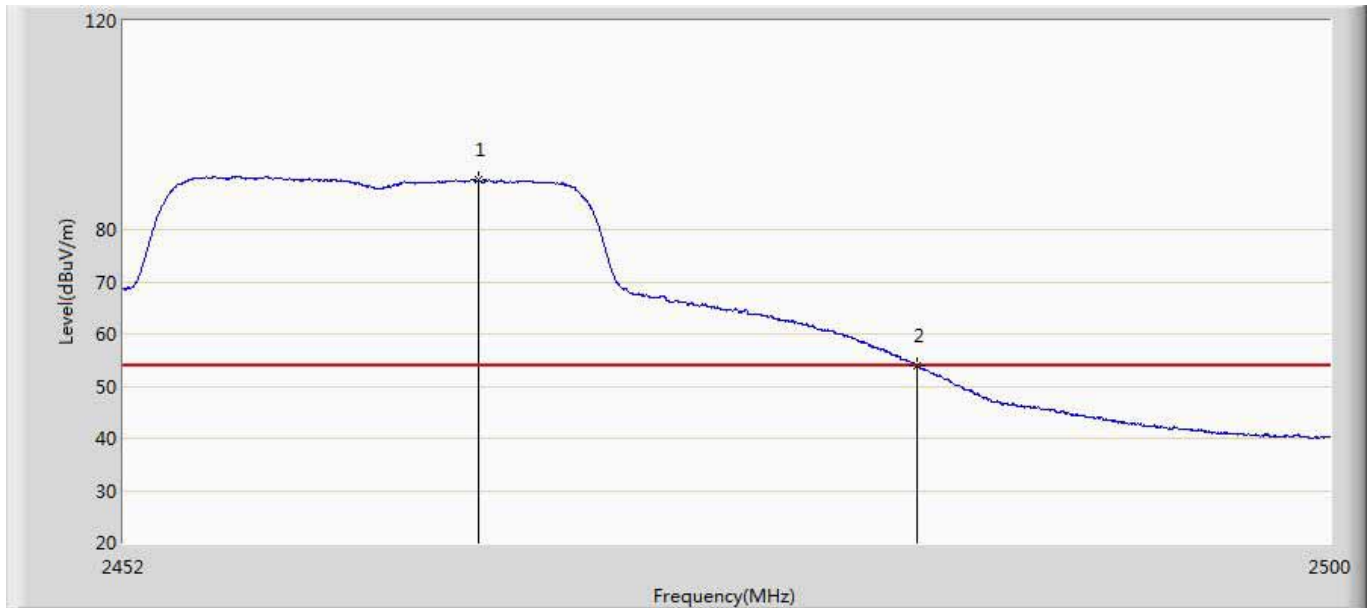
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2458.740	98.241	62.377	24.241	74.000	35.864	PK
2		2483.500	65.912	30.020	-8.088	74.000	35.891	PK

Engineer: Scott	
Site: AC5	Time: 2017/03/01 - 22:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 2:Transmit at 2457MHz by 802.11g	



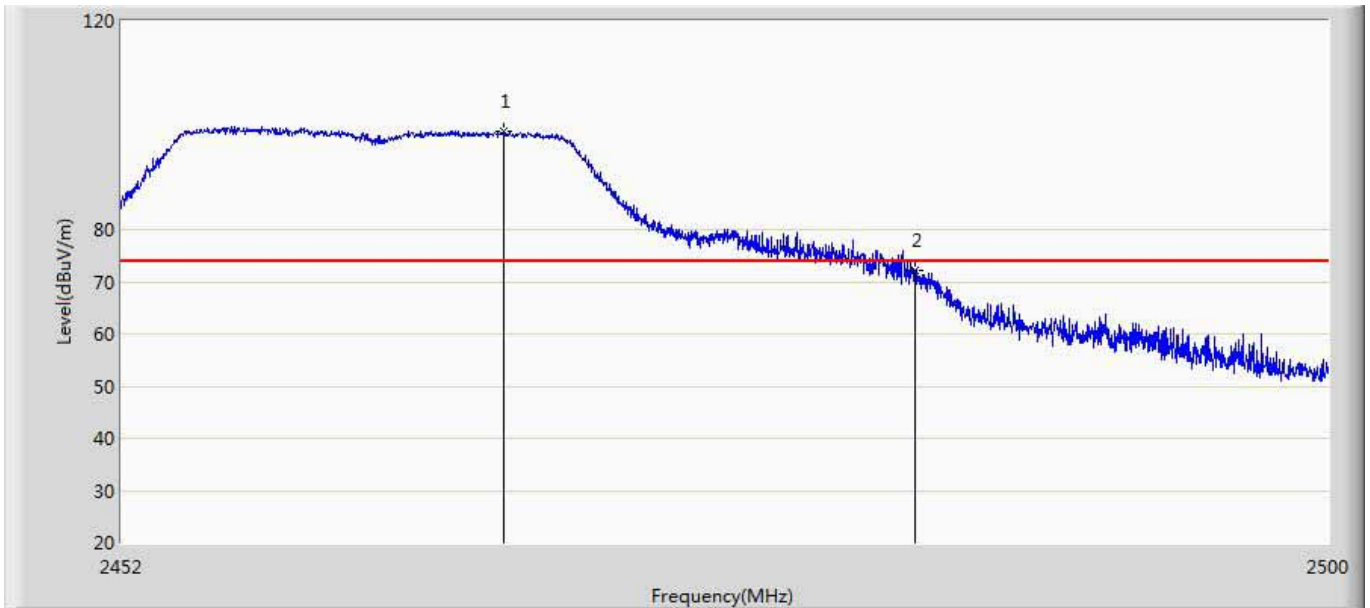
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2459.111	87.286	51.420	33.286	54.000	35.866	AV
2		2483.500	48.553	12.661	-5.447	54.000	35.891	AV

Engineer: Scott	
Site: AC5	Time: 2017/02/23 - 21:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 2:Transmit at 2462MHz by 802.11g	



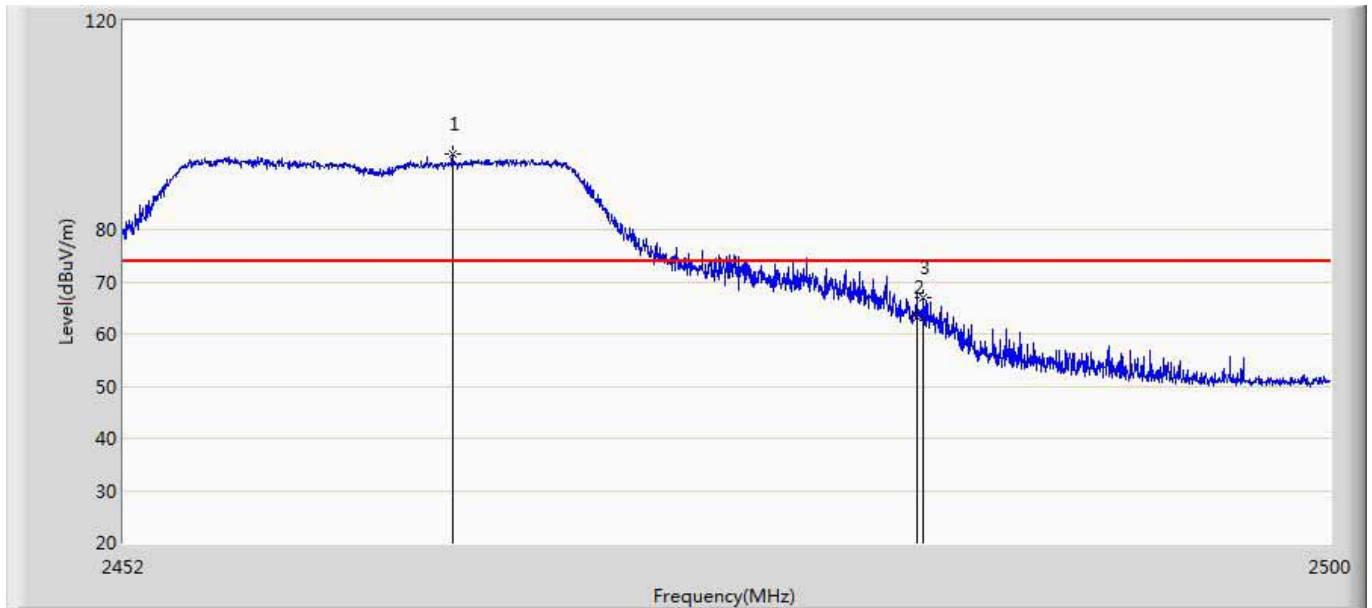
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2466.064	89.431	53.557	35.431	54.000	35.874	AV
2		2483.500	53.773	17.881	-0.227	54.000	35.891	AV

Engineer: Scott	
Site: AC5	Time: 2017/02/23 - 21:50
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 2:Transmit at 2462MHz by 802.11g	



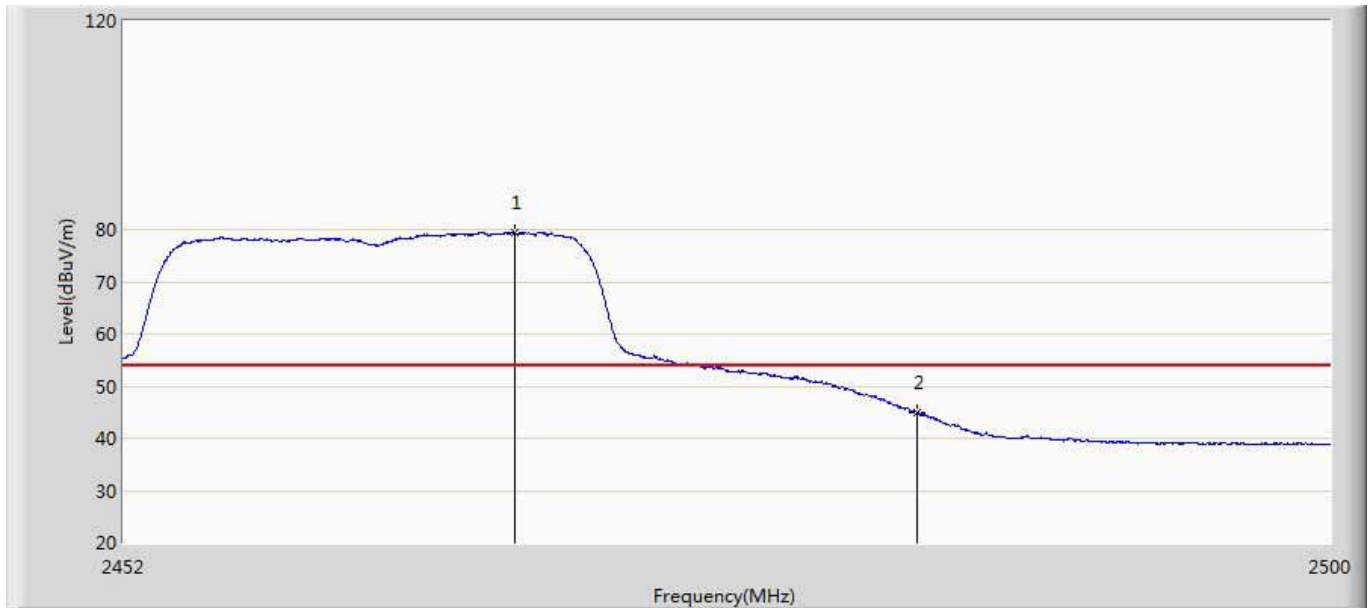
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2467.096	98.896	63.023	24.896	74.000	35.872	PK
2		2483.500	72.240	36.348	-1.760	74.000	35.891	PK

Engineer: Scott	
Site: AC5	Time: 2017/02/23 - 22:03
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 2:Transmit at 2462MHz by 802.11g	



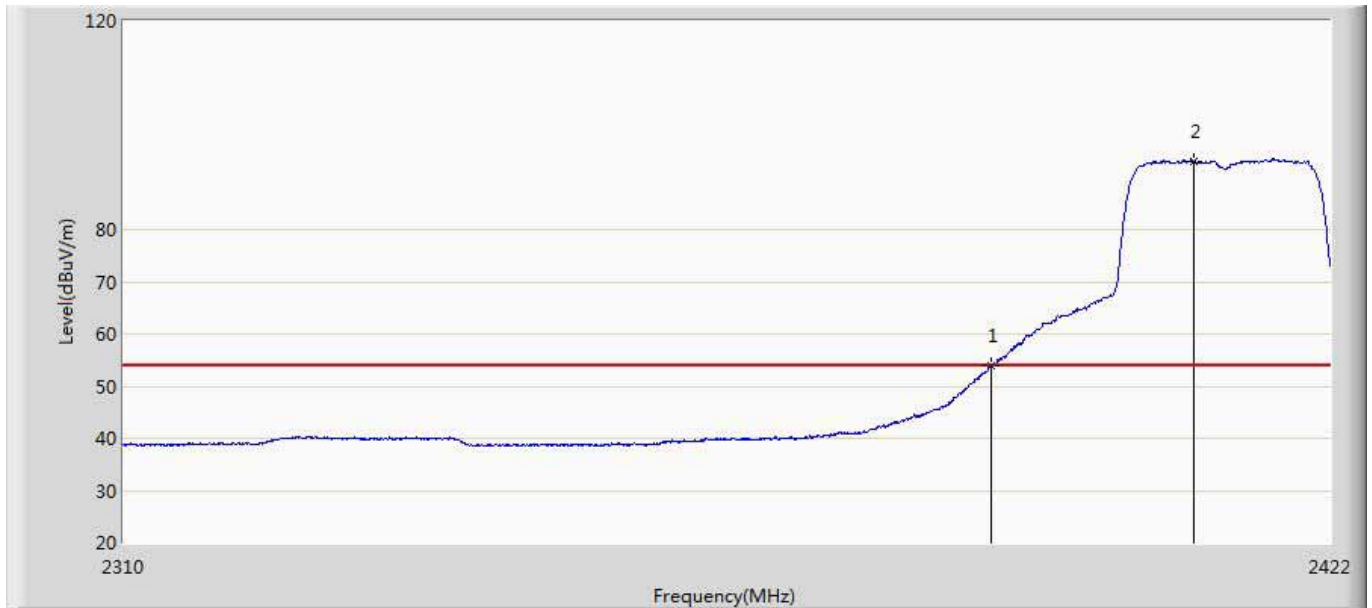
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2465.008	94.403	58.528	20.403	74.000	35.875	PK
2		2483.500	63.270	27.378	-10.730	74.000	35.891	PK
3		2483.728	67.034	31.141	-6.966	74.000	35.894	PK

Engineer: Scott	
Site: AC5	Time: 2017/02/23 - 22:04
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 2:Transmit at 2462MHz by 802.11g	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2467.480	79.474	43.602	25.474	54.000	35.872	AV
2		2483.500	44.877	8.985	-9.123	54.000	35.891	AV

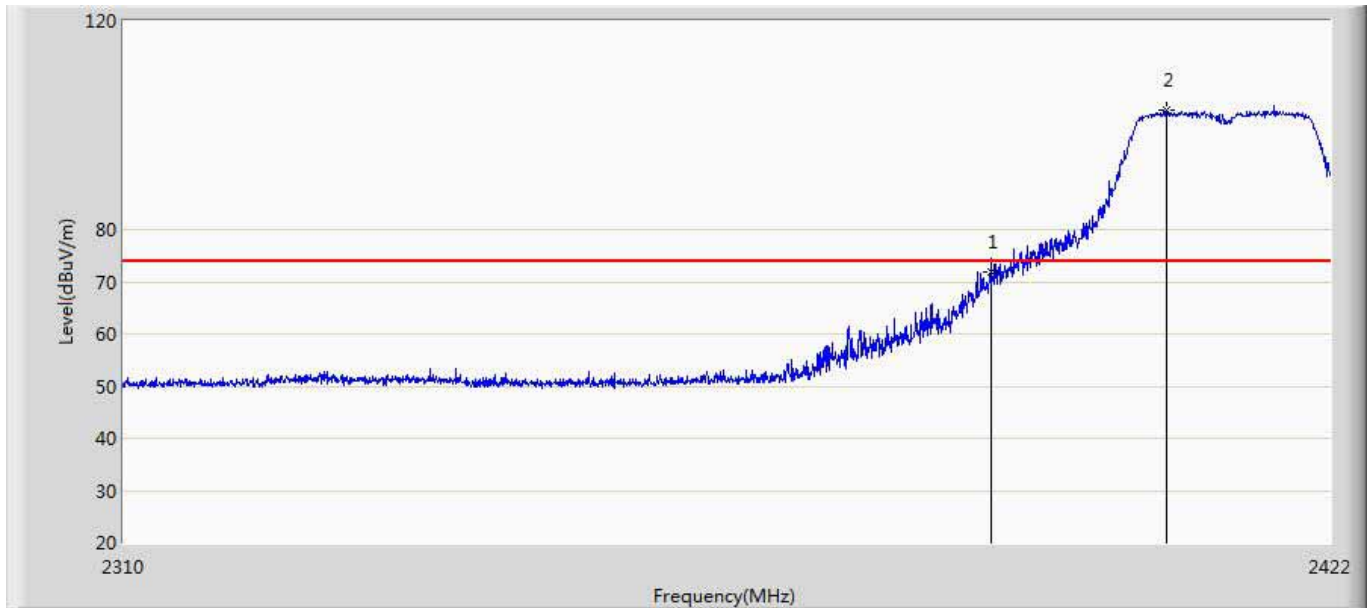
Engineer: Scott	
Site: AC5	Time: 2017/02/24 - 13:12
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 3:Transmit at 2412MHz by 802.11n20	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.880	18.198	-0.120	54.000	35.682	AV
2	*	2409.064	93.144	57.412	39.144	54.000	35.732	AV

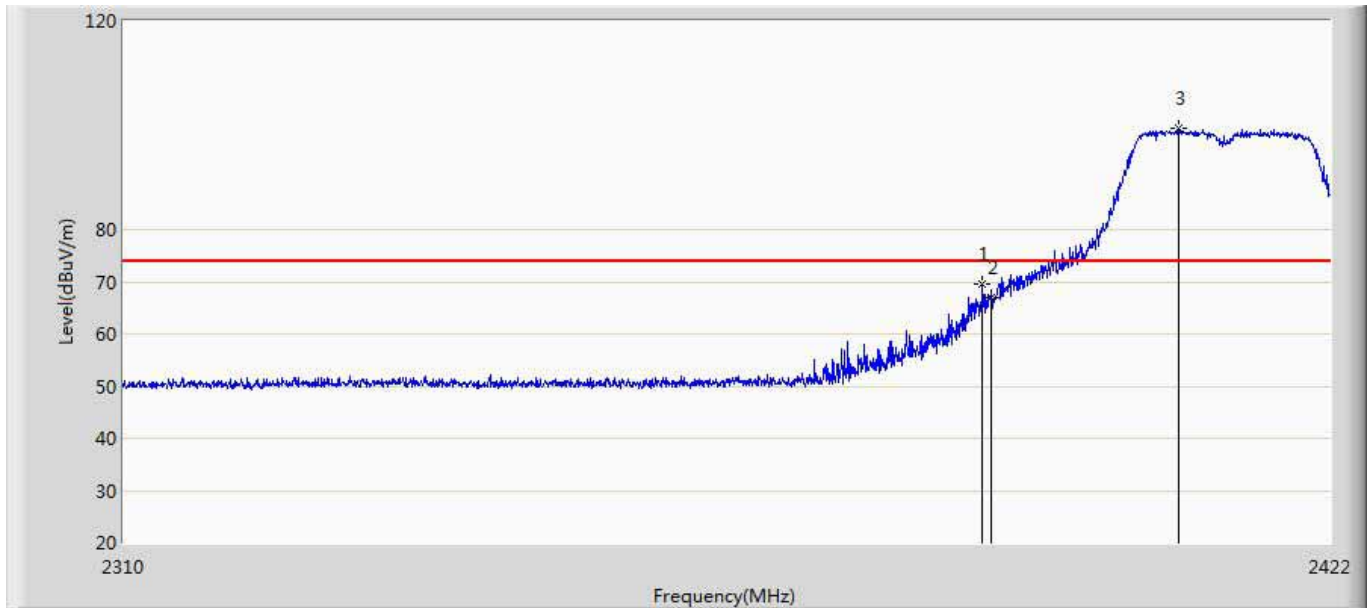


Engineer: Scott	
Site: AC5	Time: 2017/02/24 - 13:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 3:Transmit at 2412MHz by 802.11n20	



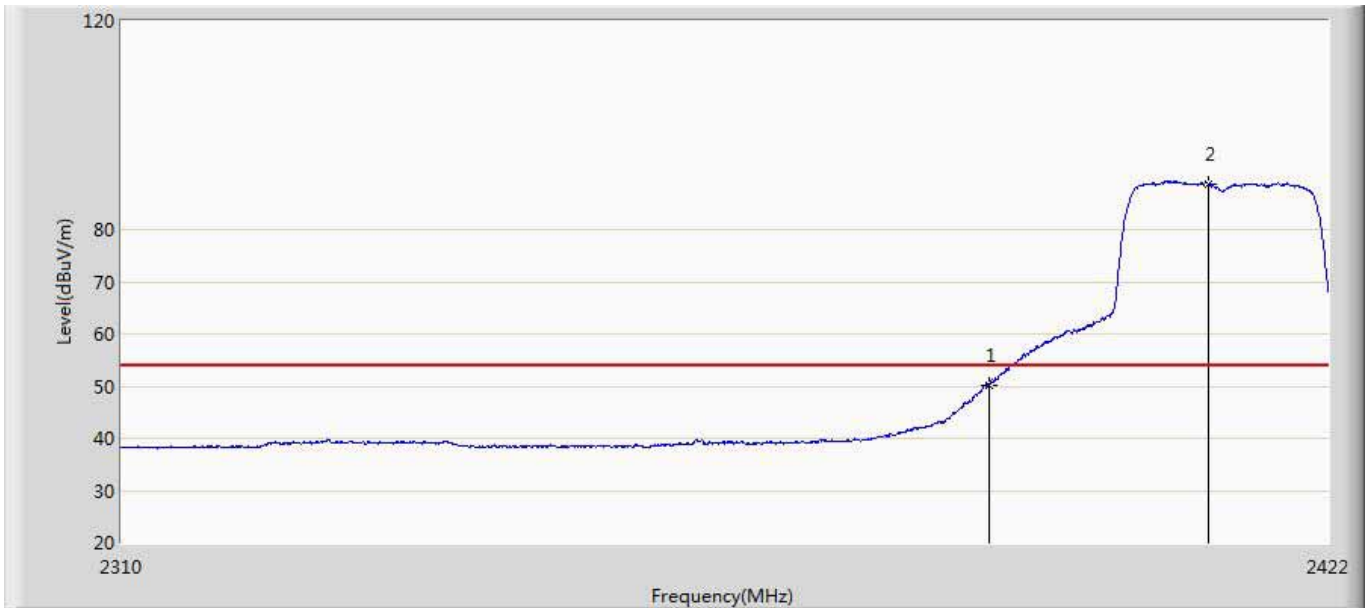
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	71.917	36.235	-2.083	74.000	35.682	PK
2	*	2406.544	102.823	67.098	28.823	74.000	35.725	PK

Engineer: Scott	
Site: AC5	Time: 2017/02/24 - 13:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 3:Transmit at 2412MHz by 802.11n20	



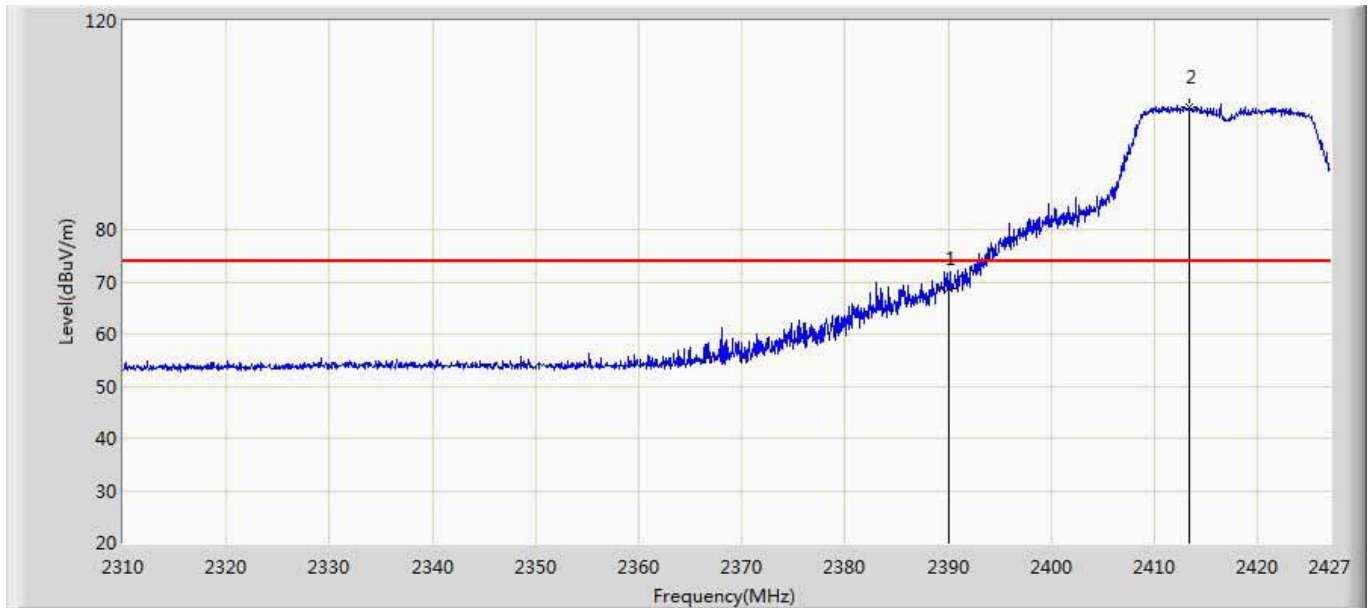
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2389.184	69.481	33.801	-4.519	74.000	35.680	PK
2		2390.000	66.942	31.260	-7.058	74.000	35.682	PK
3	*	2407.720	99.537	63.809	25.537	74.000	35.728	PK

Engineer: Scott	
Site: AC5	Time: 2017/02/24 - 13:42
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 3:Transmit at 2412MHz by 802.11n20	



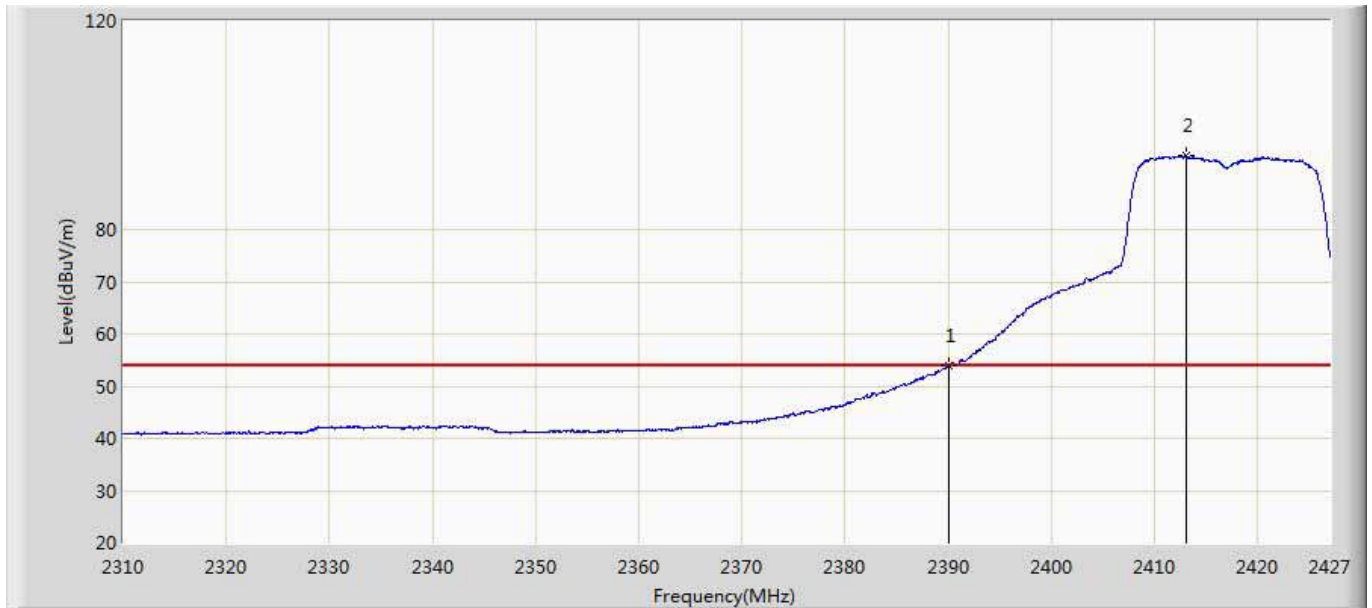
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	50.276	14.594	-3.724	54.000	35.682	AV
2	*	2410.632	88.789	53.053	34.789	54.000	35.737	AV

Engineer: Scott	
Site: AC5	Time: 2017/03/01 - 22:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 3:Transmit at 2417MHz by 802.11n20	



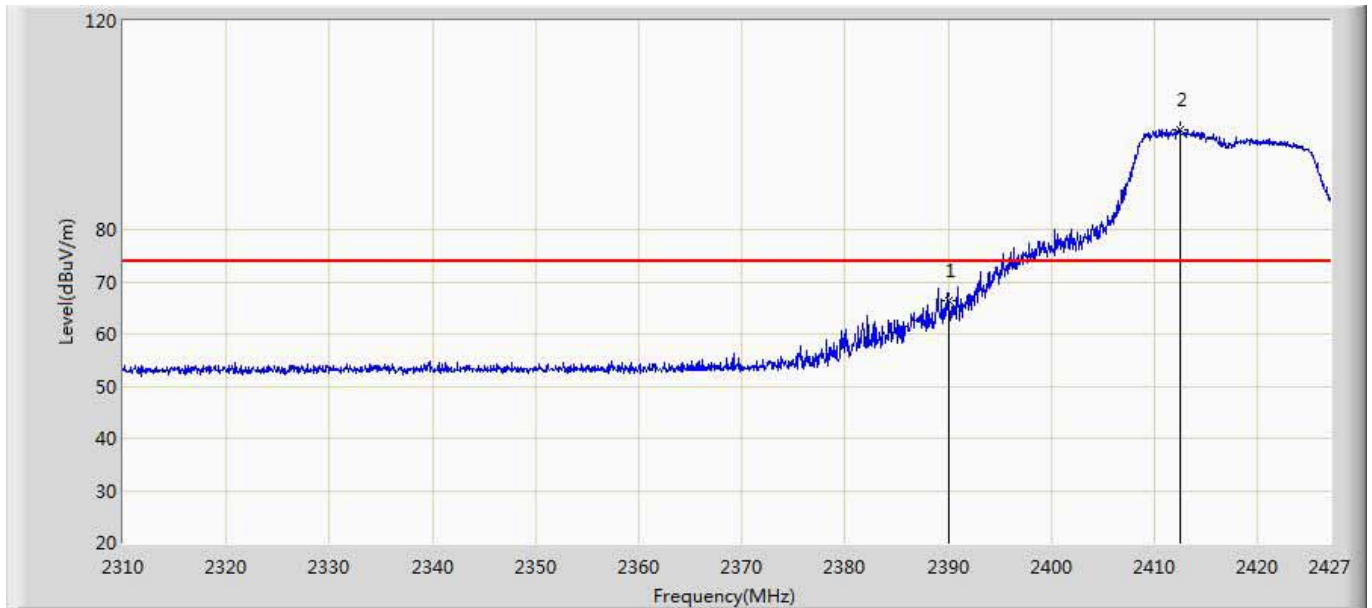
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	68.586	32.904	-5.414	74.000	35.682	PK
2	*	2413.428	103.441	67.694	29.441	74.000	35.747	PK

Engineer: Scott	
Site: AC5	Time: 2017/03/01 - 22:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 3:Transmit at 2417MHz by 802.11n20	



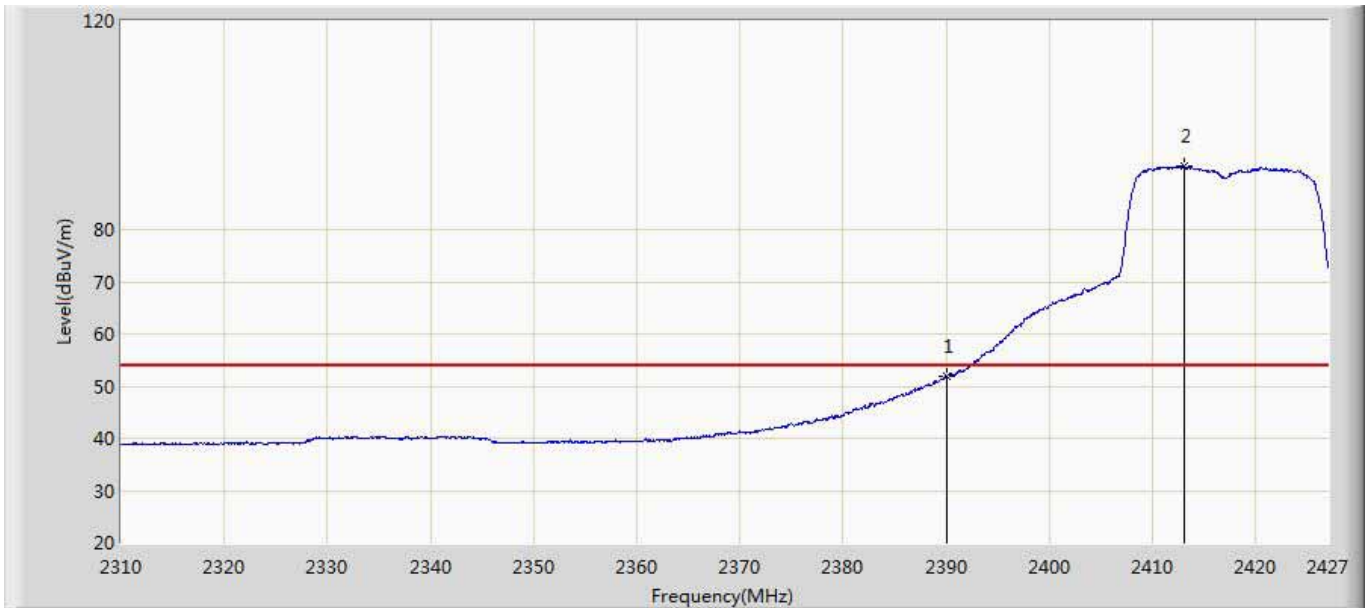
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.844	18.162	-0.156	54.000	35.682	AV
2	*	2413.019	94.116	58.370	40.116	54.000	35.745	AV

Engineer: Scott	
Site: AC5	Time: 2017/03/01 - 22:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 3:Transmit at 2417MHz by 802.11n20	



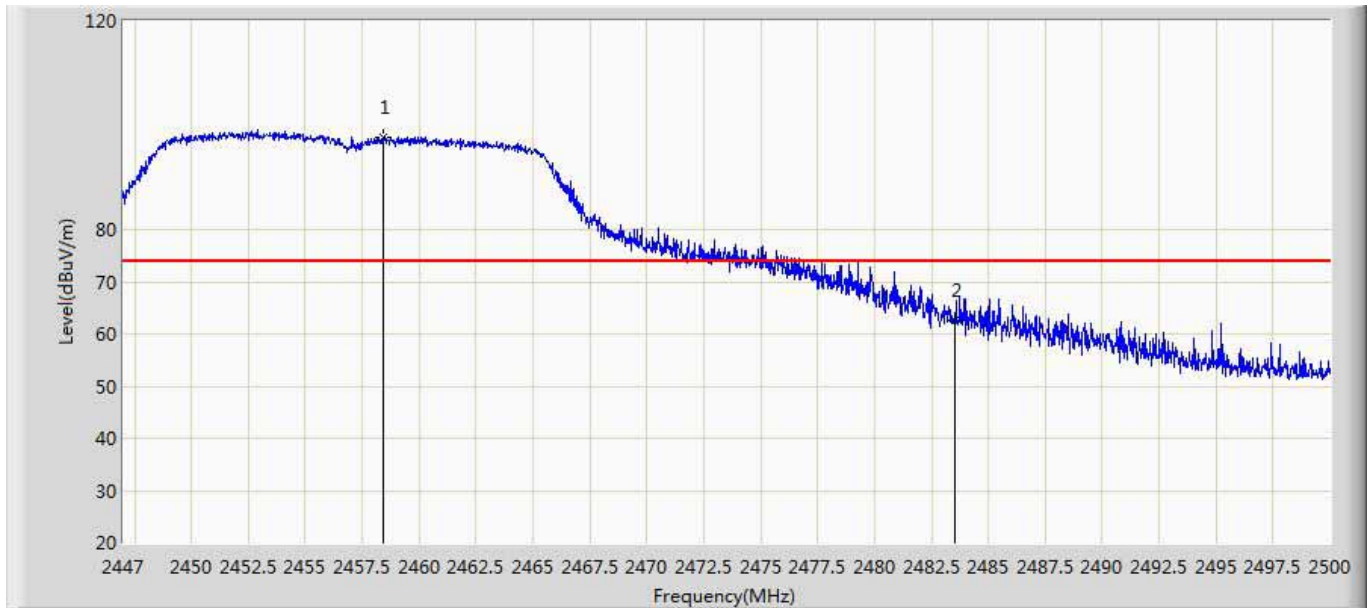
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	66.261	30.579	-7.739	74.000	35.682	PK
2	*	2412.434	99.118	63.375	25.118	74.000	35.743	PK

Engineer: Scott	
Site: AC5	Time: 2017/03/01 - 23:04
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 3:Transmit at 2417MHz by 802.11n20	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	51.844	16.162	-2.156	54.000	35.682	AV
2	*	2413.019	92.112	56.367	38.112	54.000	35.745	AV

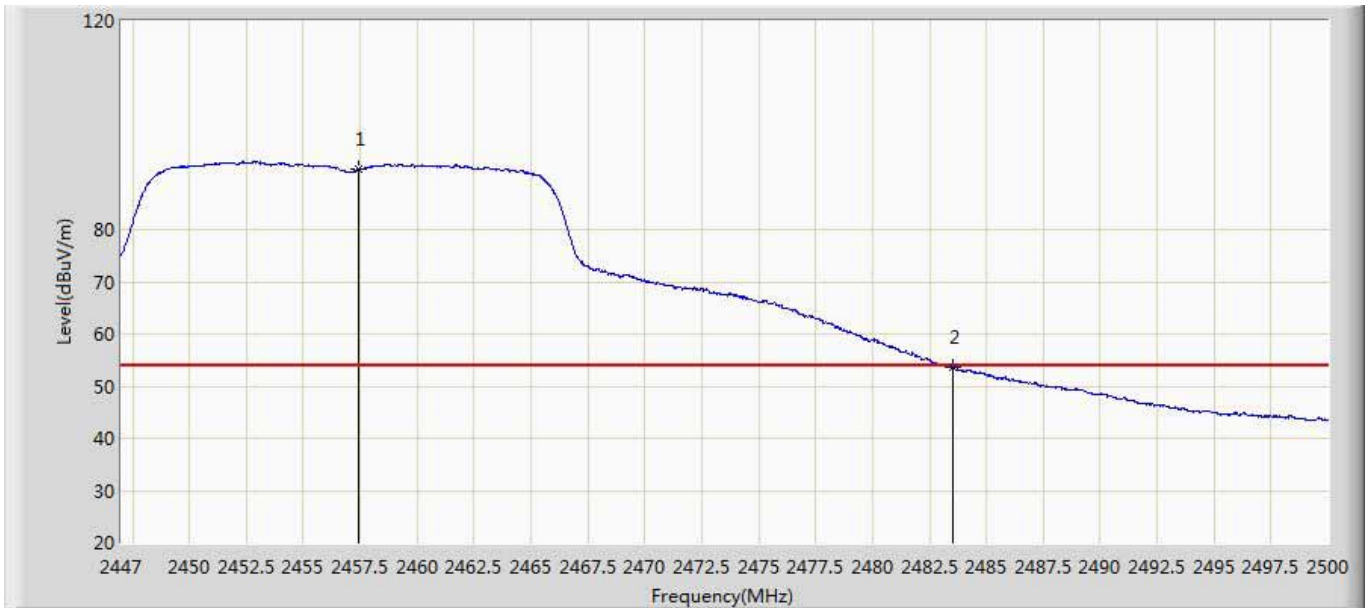
Engineer: Scott	
Site: AC5	Time: 2017/03/01 - 23:05
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 3:Transmit at 2457MHz by 802.11n20	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2458.395	97.690	61.827	23.690	74.000	35.863	PK
2		2483.500	62.566	26.674	-11.434	74.000	35.891	PK

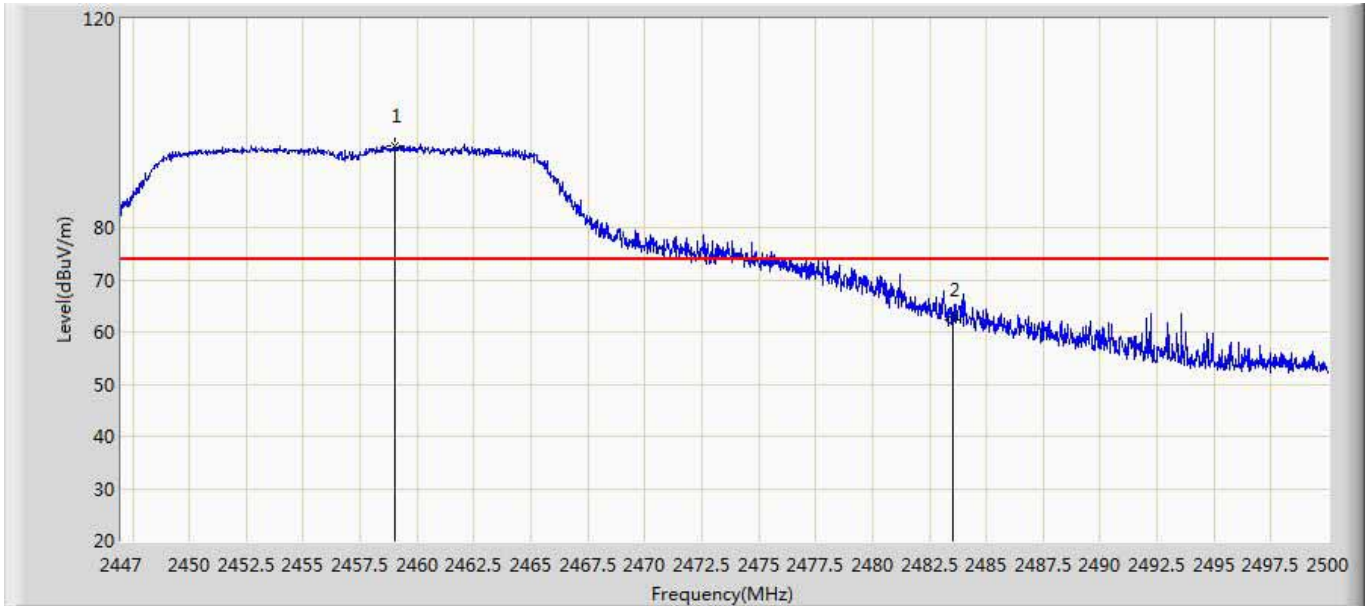


Engineer: Scott	
Site: AC5	Time: 2017/03/01 - 23:06
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 3:Transmit at 2457MHz by 802.11n20	



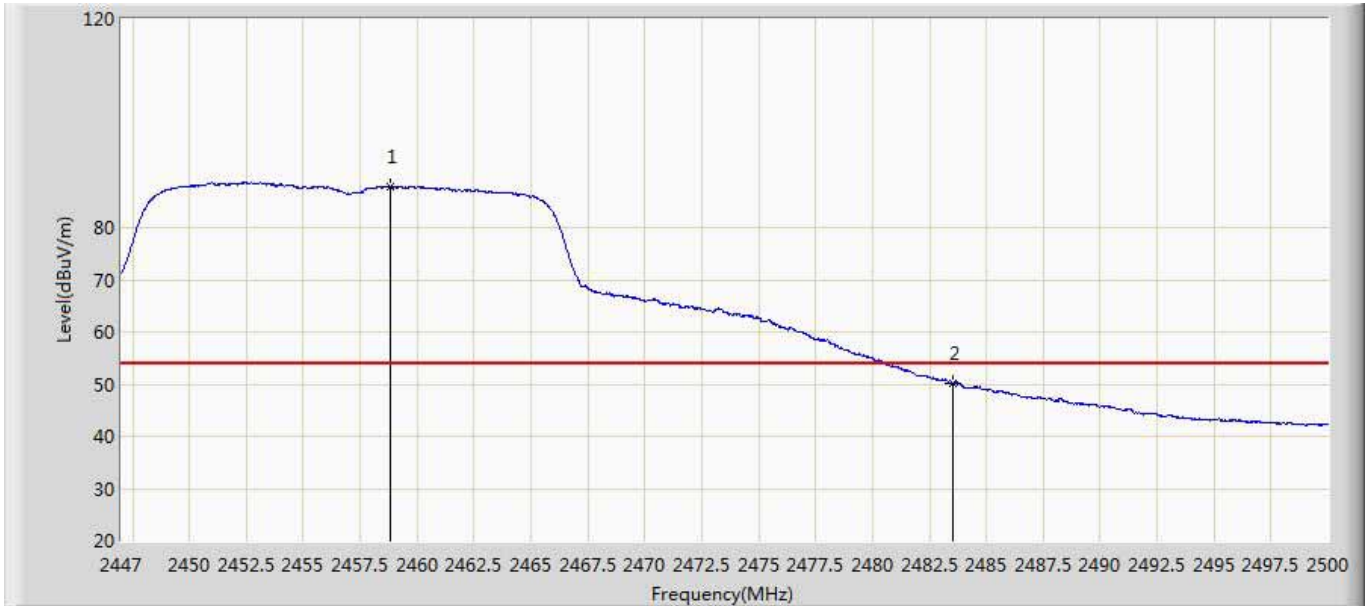
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2457.441	91.591	55.733	37.591	54.000	35.859	AV
2		2483.500	53.610	17.718	-0.390	54.000	35.891	AV

Engineer: Scott	
Site: AC5	Time: 2017/03/01 - 23:06
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 3:Transmit at 2457MHz by 802.11n20	



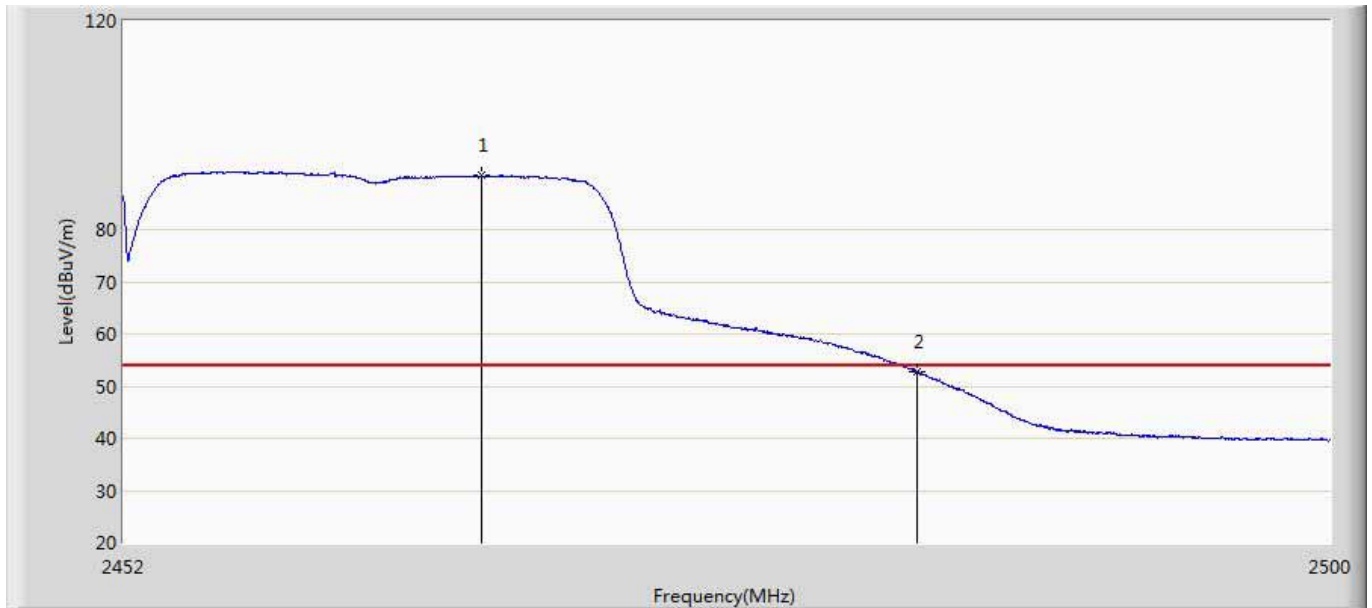
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2459.031	95.675	59.810	21.675	74.000	35.866	PK
2		2483.500	62.177	26.285	-11.823	74.000	35.891	PK

Engineer: Scott	
Site: AC5	Time: 2017/03/01 - 23:07
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 3:Transmit at 2457MHz by 802.11n20	



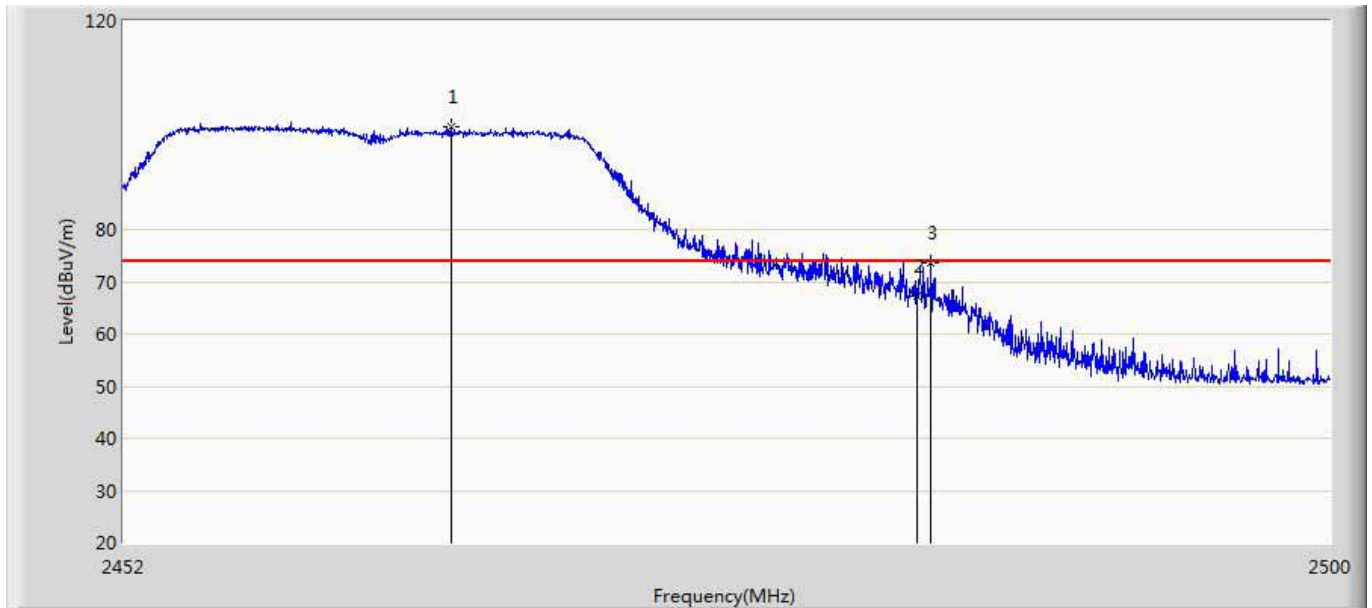
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2458.792	87.862	51.998	33.862	54.000	35.864	AV
2		2483.500	50.061	14.169	-3.939	54.000	35.891	AV

Engineer: Scott	
Site: AC5	Time: 2017/02/24 - 13:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 3:Transmit at 2462MHz by 802.11n20	



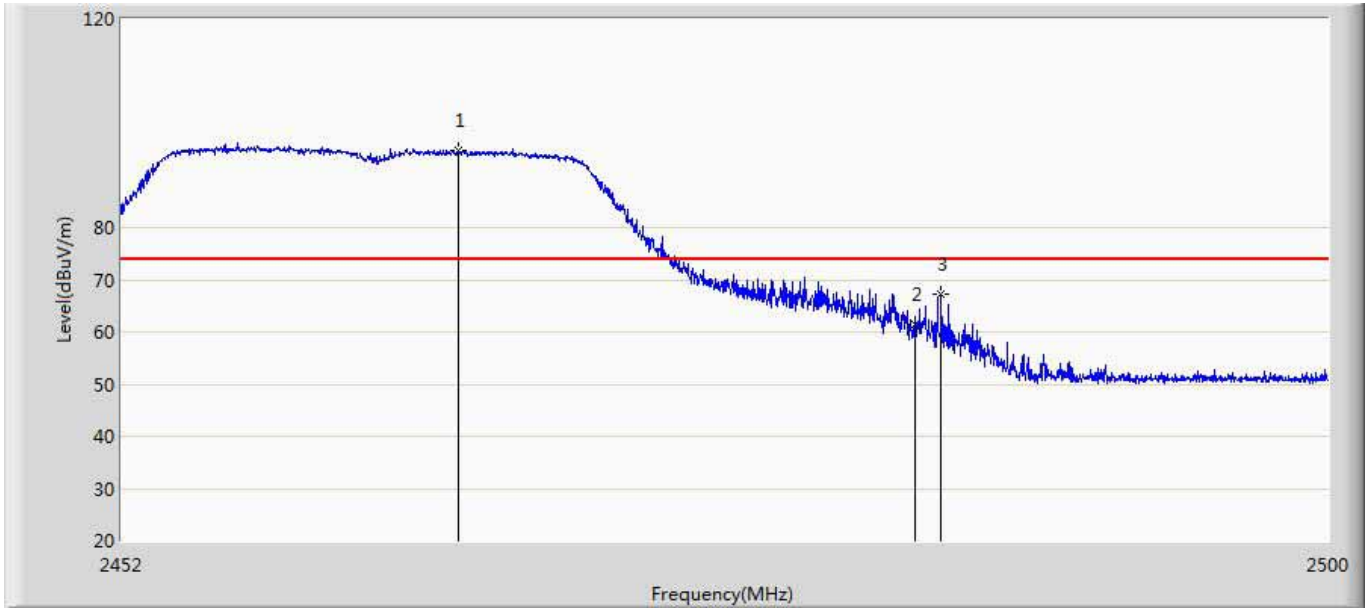
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2466.184	90.356	54.482	36.356	54.000	35.873	AV
2		2483.500	52.812	16.920	-1.188	54.000	35.891	AV

Engineer: Scott	
Site: AC5	Time: 2017/02/24 - 13:52
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 3:Transmit at 2462MHz by 802.11n20	



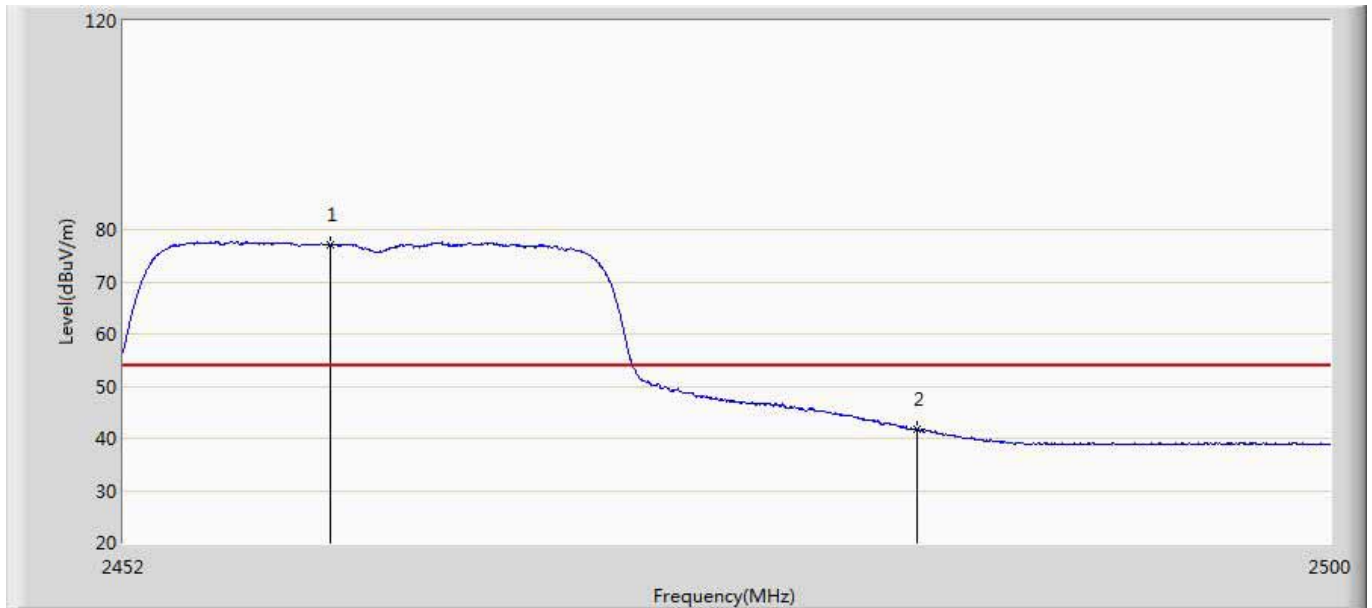
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2464.936	99.598	63.723	25.598	74.000	35.875	PK
2		2483.500	67.112	31.220	-6.888	74.000	35.891	PK
3		2484.040	73.547	37.651	-0.453	74.000	35.896	PK

Engineer: Scott	
Site: AC5	Time: 2017/02/24 - 13:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 3:Transmit at 2462MHz by 802.11n20	



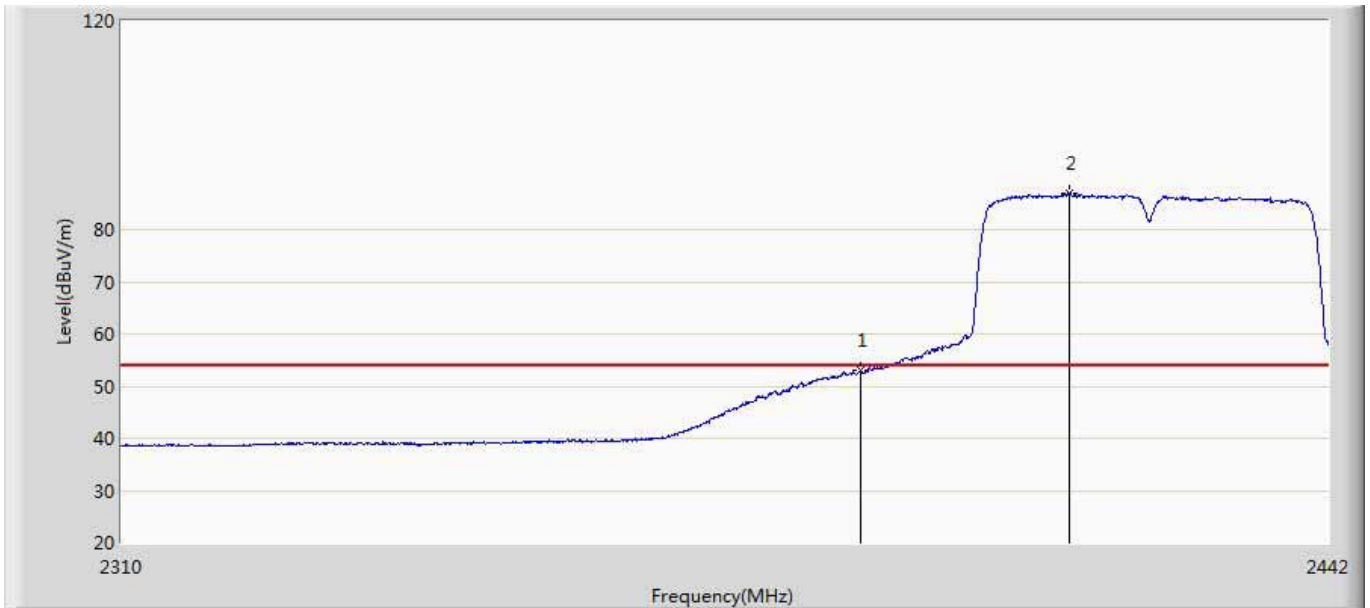
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2465.320	94.737	58.862	20.737	74.000	35.874	PK
2		2483.500	61.582	25.690	-12.418	74.000	35.891	PK
3		2484.520	67.206	31.307	-6.794	74.000	35.899	PK

Engineer: Scott	
Site: AC5	Time: 2017/02/24 - 13:57
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 3:Transmit at 2462MHz by 802.11n20	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2460.160	77.211	41.341	23.211	54.000	35.870	AV
2		2483.500	41.740	5.848	-12.260	54.000	35.891	AV

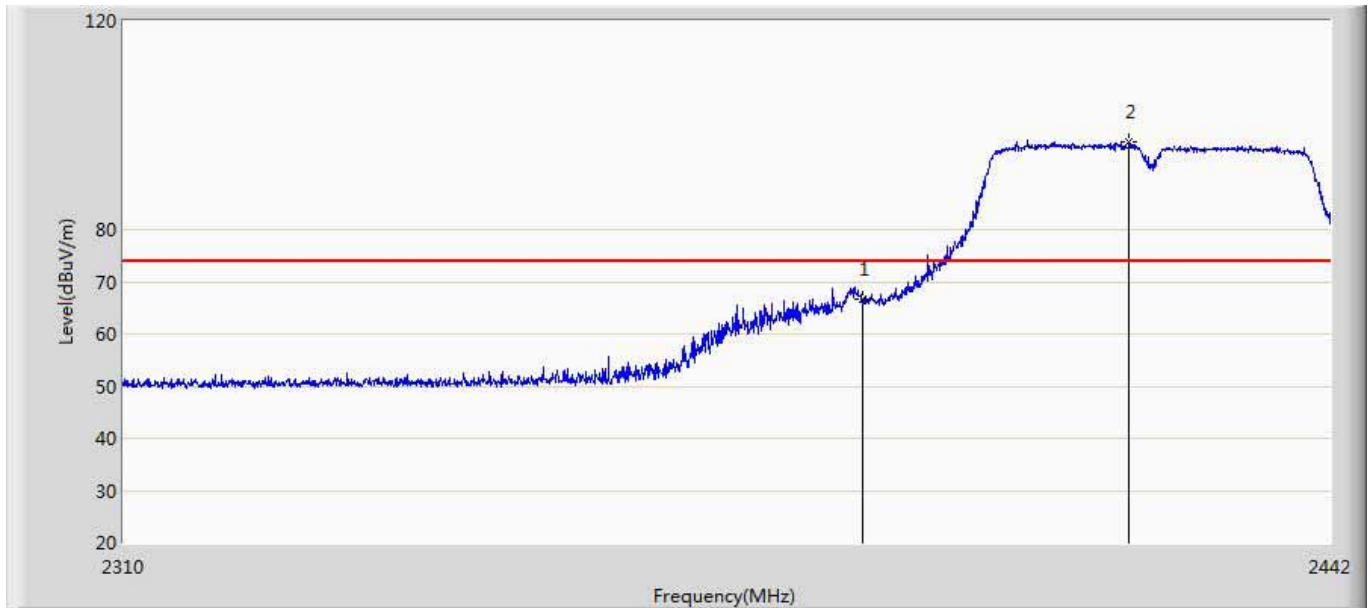
Engineer: Scott	
Site: AC5	Time: 2017/02/24 - 13:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 4:Transmit at 2422MHz by 802.11n40	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	52.922	17.240	-1.078	54.000	35.682	AV
2	*	2413.092	86.928	51.182	32.928	54.000	35.746	AV

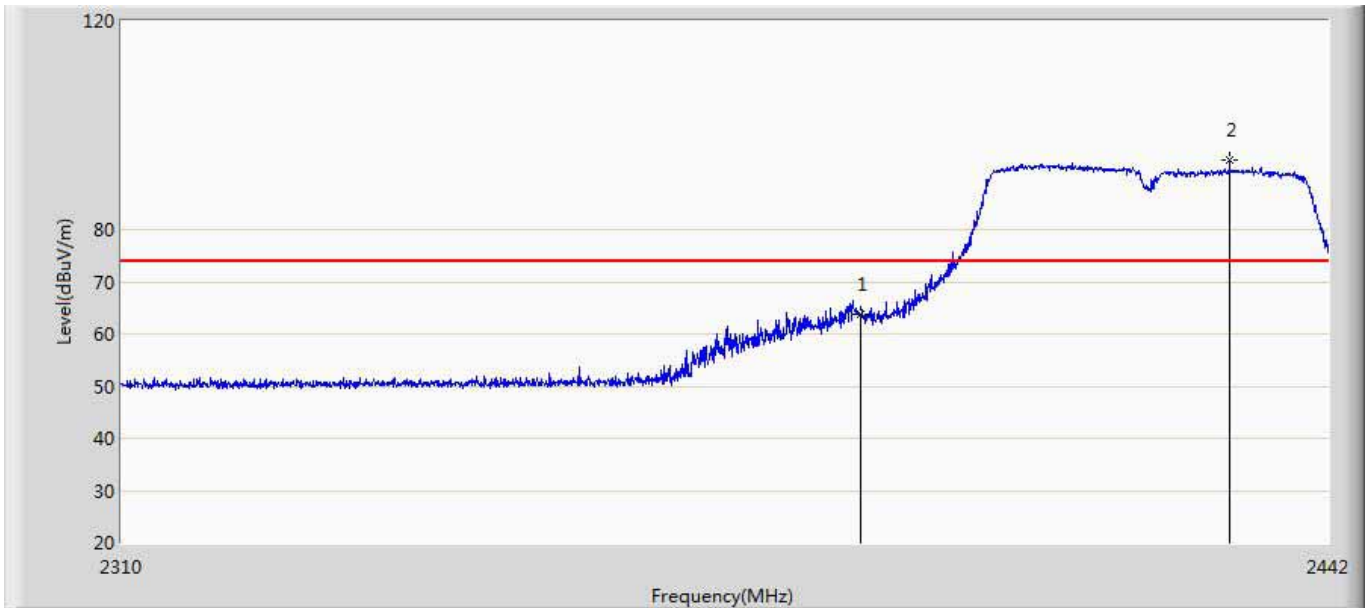


Engineer: Scott	
Site: AC5	Time: 2017/02/24 - 14:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 4:Transmit at 2422MHz by 802.11n40	



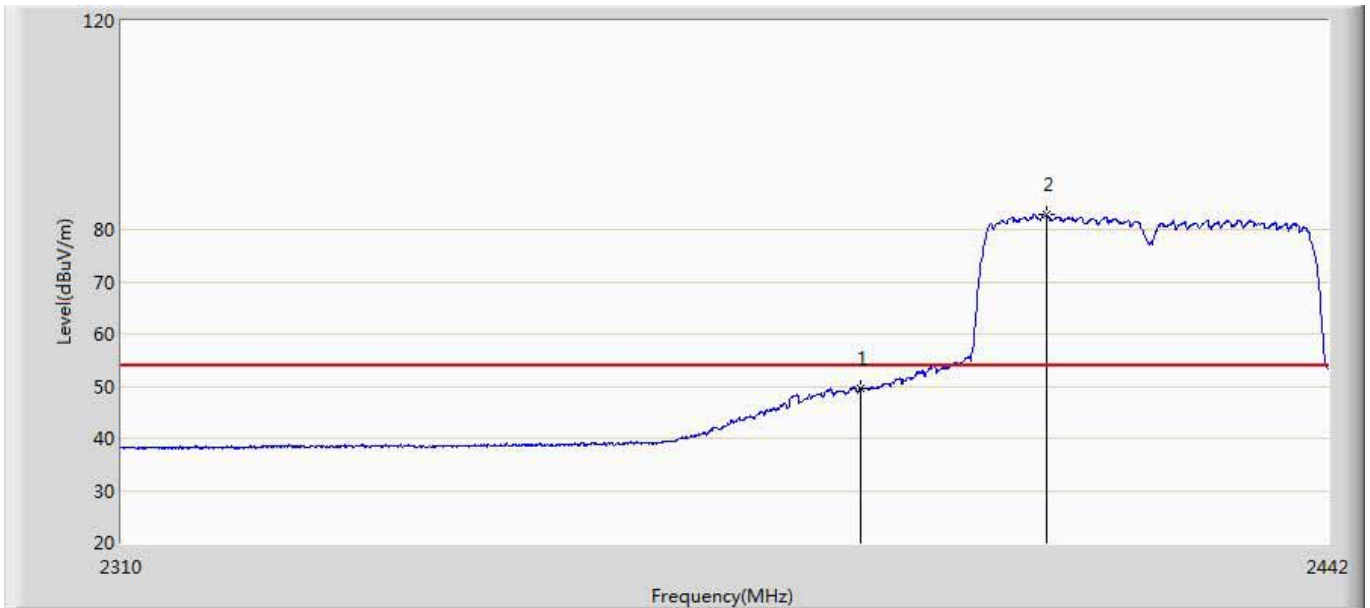
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	66.558	30.876	-7.442	74.000	35.682	PK
2	*	2419.560	96.904	61.131	22.904	74.000	35.774	PK

Engineer: Scott	
Site: AC5	Time: 2017/02/24 - 14:10
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 4:Transmit at 2422MHz by 802.11n40	



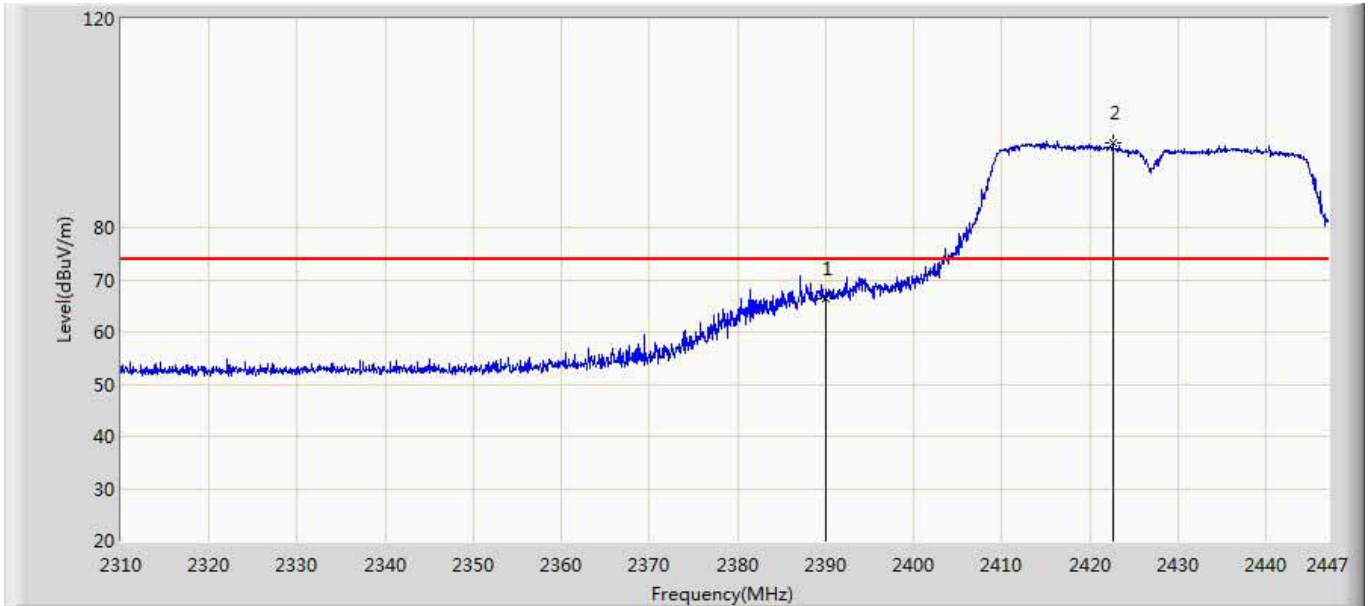
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	63.816	28.134	-10.184	74.000	35.682	PK
2	*	2430.978	93.198	57.390	19.198	74.000	35.808	PK

Engineer: Scott	
Site: AC5	Time: 2017/02/24 - 14:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 4:Transmit at 2422MHz by 802.11n40	



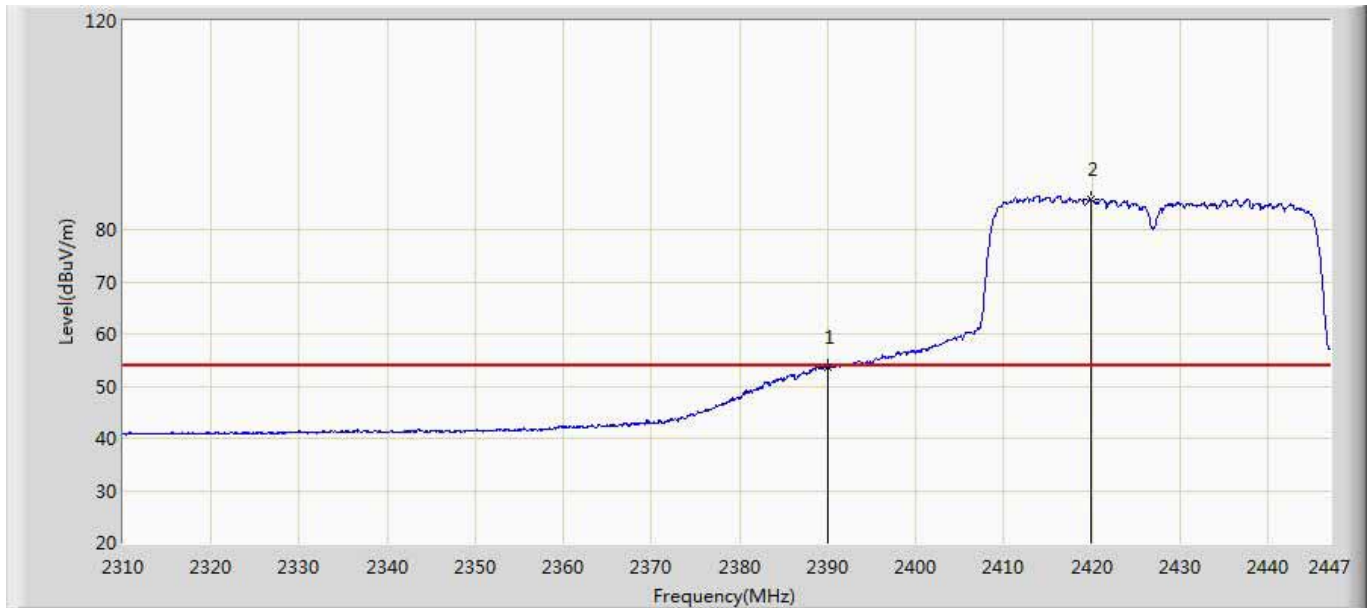
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	49.473	13.791	-4.527	54.000	35.682	AV
2	*	2410.584	82.990	47.254	28.990	54.000	35.737	AV

Engineer: Scott	
Site: AC5	Time: 2017/03/01 - 23:12
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 4:Transmit at 2427MHz by 802.11n40	



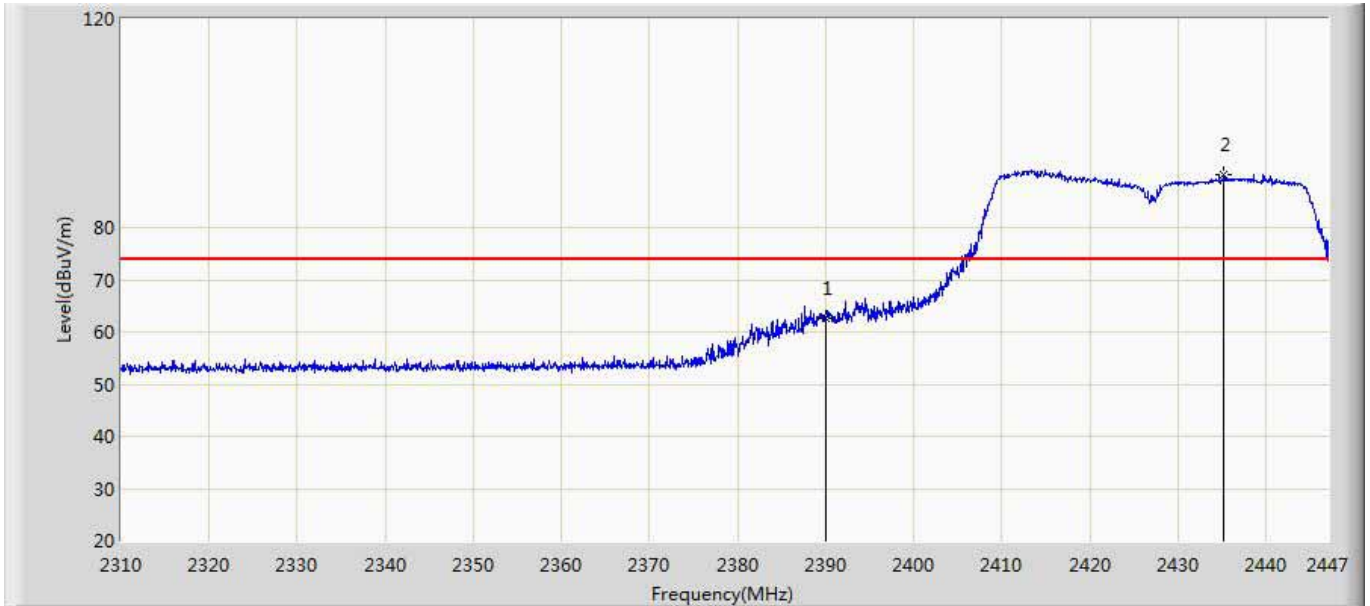
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	66.491	30.809	-7.509	74.000	35.682	PK
2	*	2422.545	96.122	60.336	22.122	74.000	35.785	PK

Engineer: Scott	
Site: AC5	Time: 2017/03/01 - 23:13
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 4:Transmit at 2427MHz by 802.11n40	



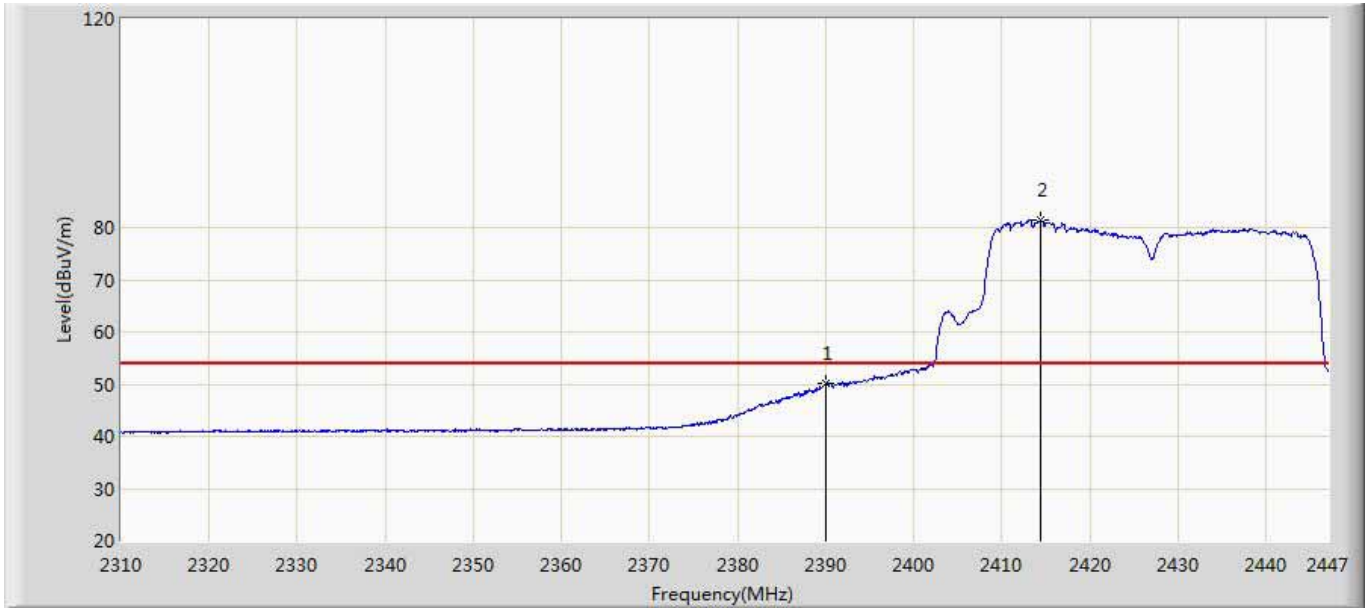
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.629	17.947	-0.371	54.000	35.682	AV
2	*	2419.942	85.686	49.911	31.686	54.000	35.775	AV

Engineer: Scott	
Site: AC5	Time: 2017/03/01 - 23:13
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 4:Transmit at 2427MHz by 802.11n40	



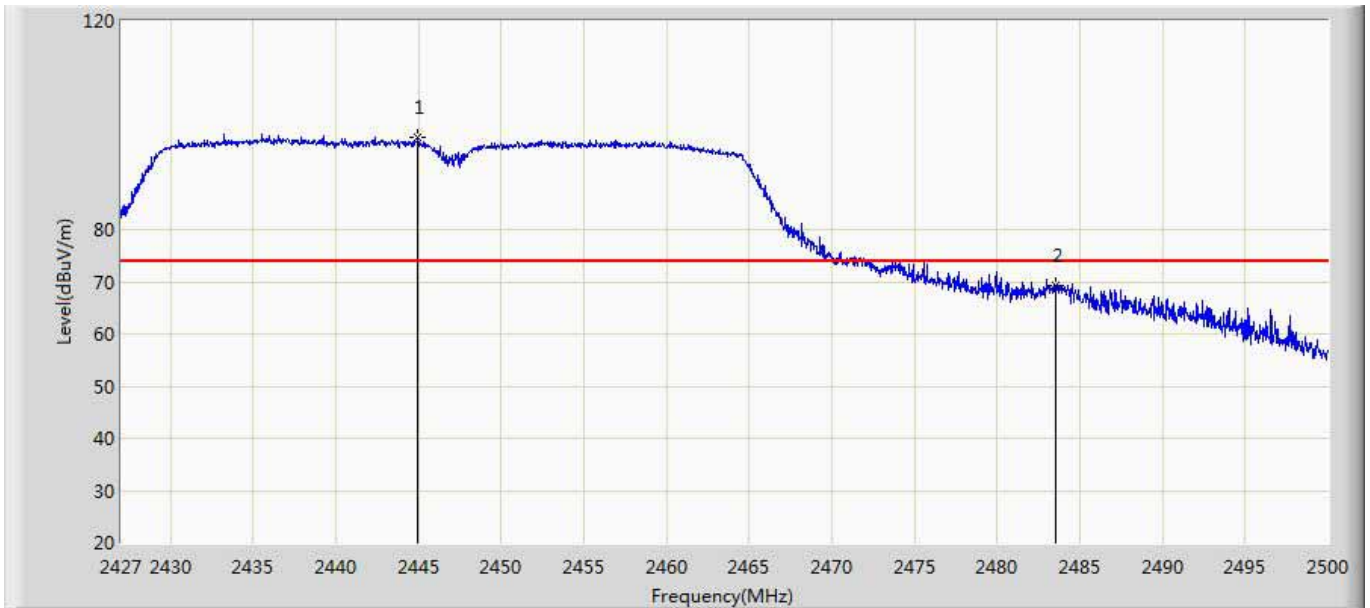
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	62.703	27.021	-11.297	74.000	35.682	PK
2	*	2435.218	90.107	54.300	16.107	74.000	35.806	PK

Engineer: Scott	
Site: AC5	Time: 2017/03/01 - 23:15
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 4:Transmit at 2427MHz by 802.11n40	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	50.038	14.356	-3.962	54.000	35.682	AV
2	*	2414.325	81.348	45.597	27.348	54.000	35.751	AV

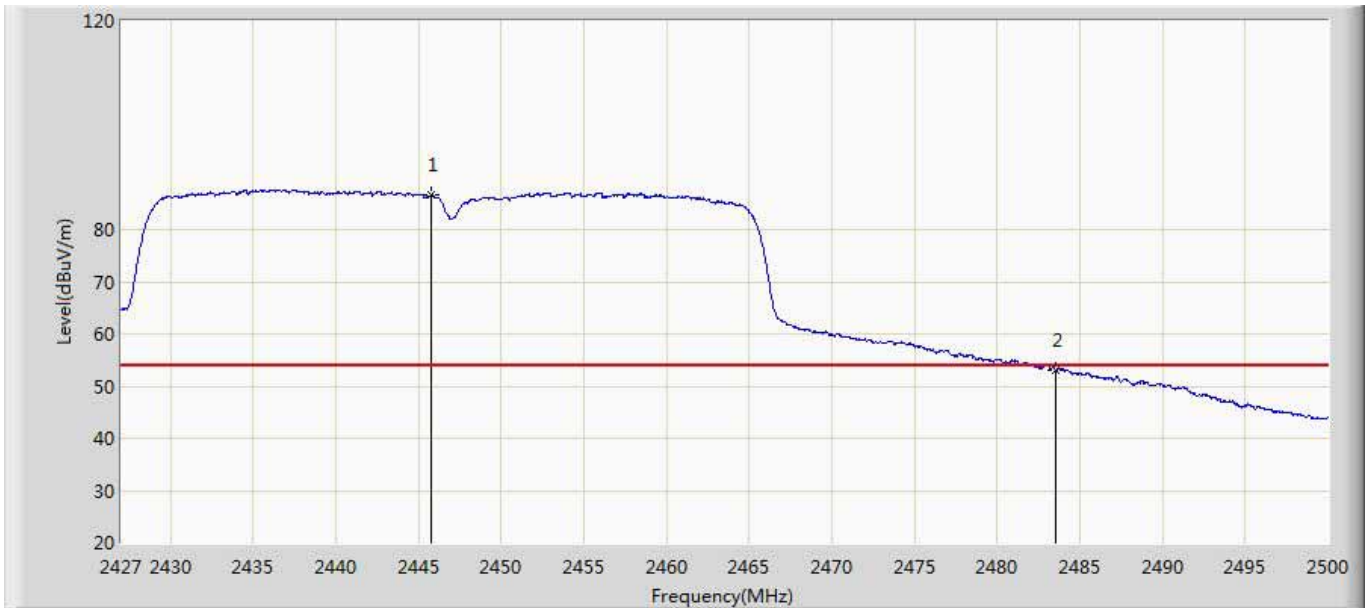
Engineer: Scott	
Site: AC5	Time: 2017/03/01 - 23:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 4:Transmit at 2447MHz by 802.11n40	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2444.958	97.818	62.014	23.818	74.000	35.804	PK
2		2483.500	69.215	33.323	-4.785	74.000	35.891	PK

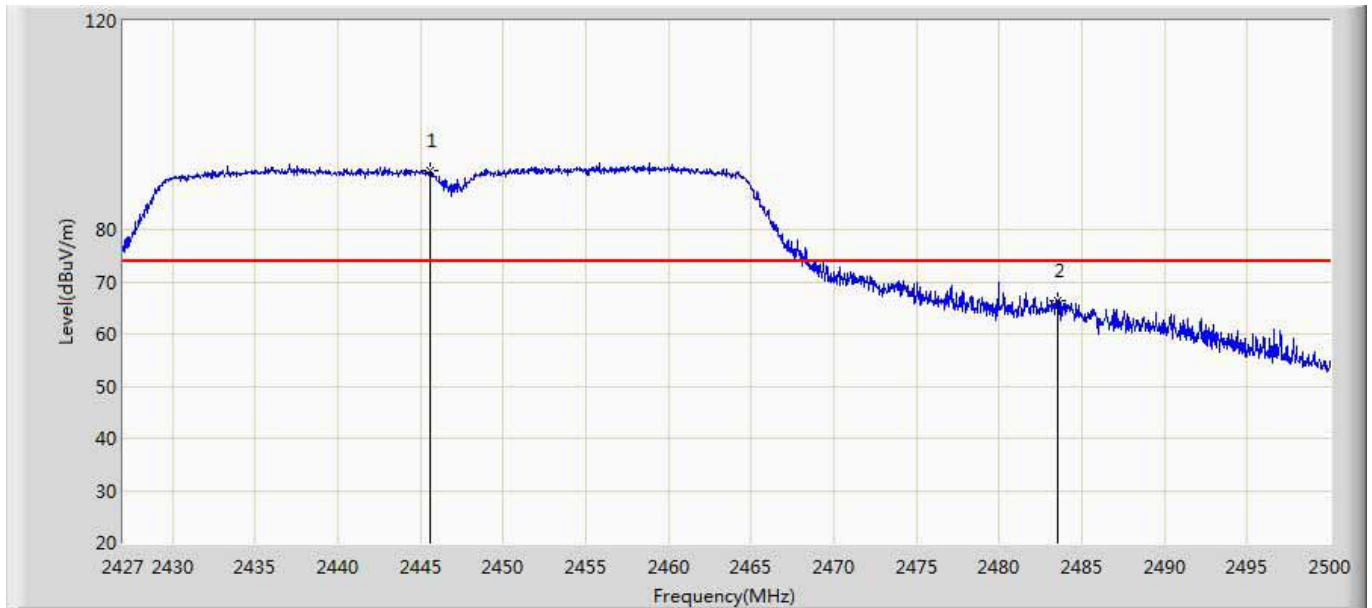


Engineer: Scott	
Site: AC5	Time: 2017/03/01 - 23:22
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 4:Transmit at 2447MHz by 802.11n40	



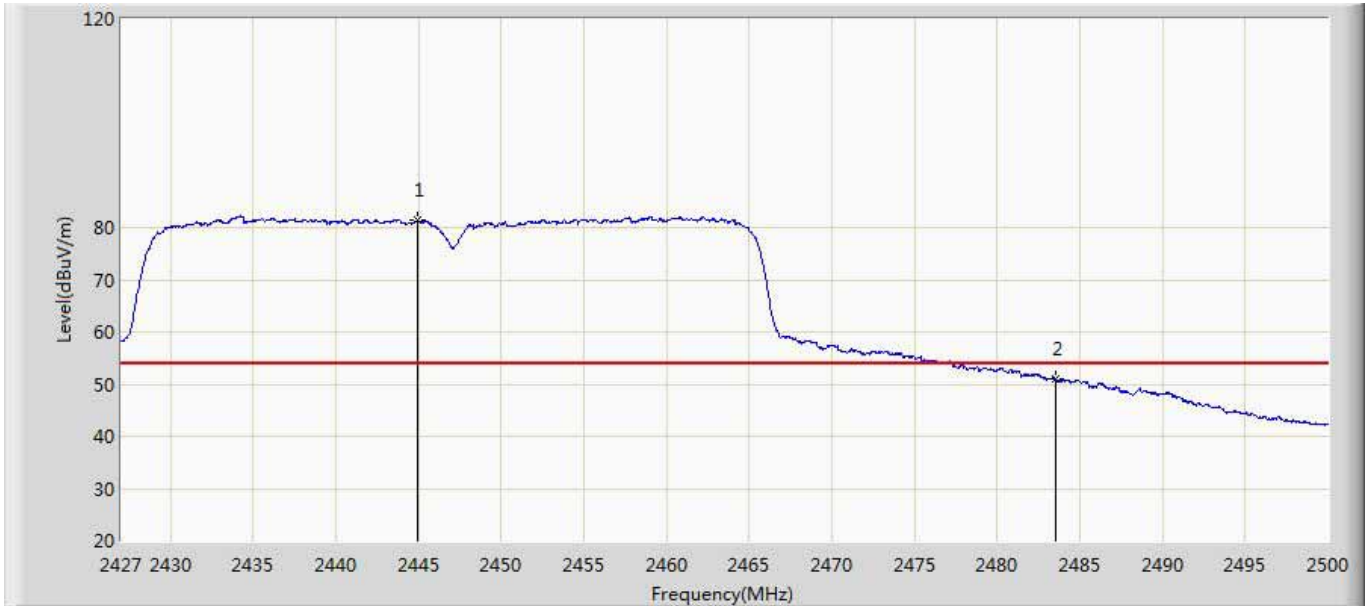
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2445.798	86.625	50.818	32.625	54.000	35.807	AV
2		2483.500	53.112	17.220	-0.888	54.000	35.891	AV

Engineer: Scott	
Site: AC5	Time: 2017/03/01 - 23:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 4:Transmit at 2447MHz by 802.11n40	



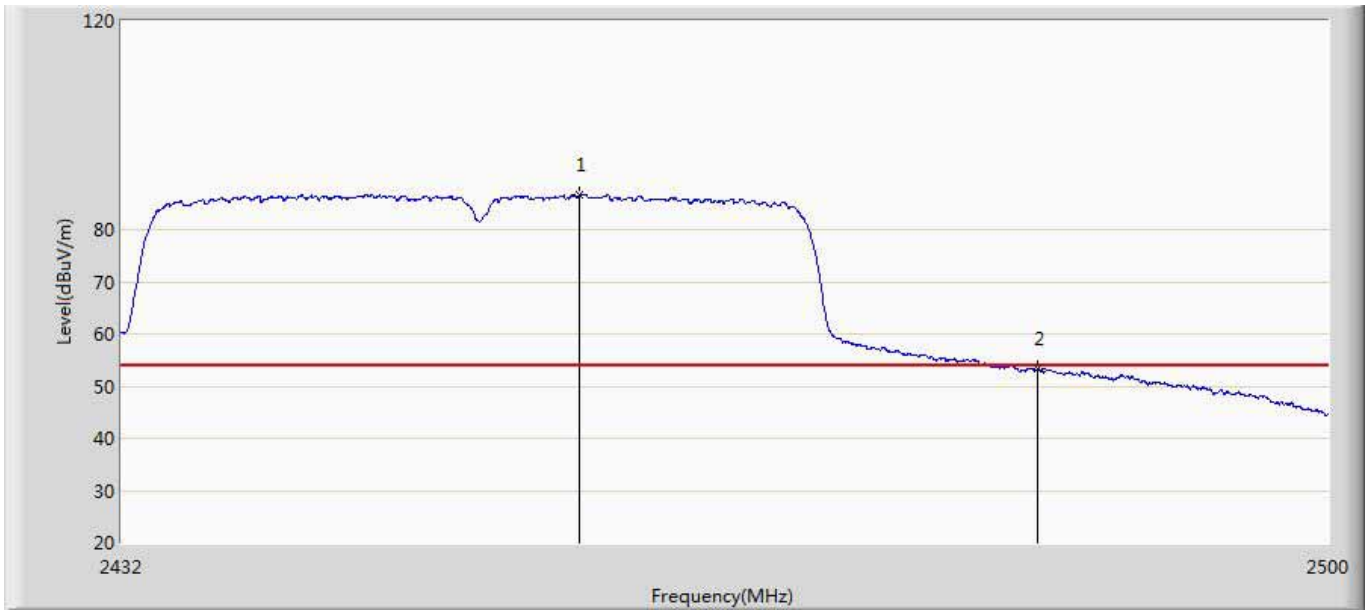
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2445.579	91.379	55.573	17.379	74.000	35.807	PK
2		2483.500	66.385	30.493	-7.615	74.000	35.891	PK

Engineer: Scott	
Site: AC5	Time: 2017/03/01 - 23:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 4:Transmit at 2447MHz by 802.11n40	



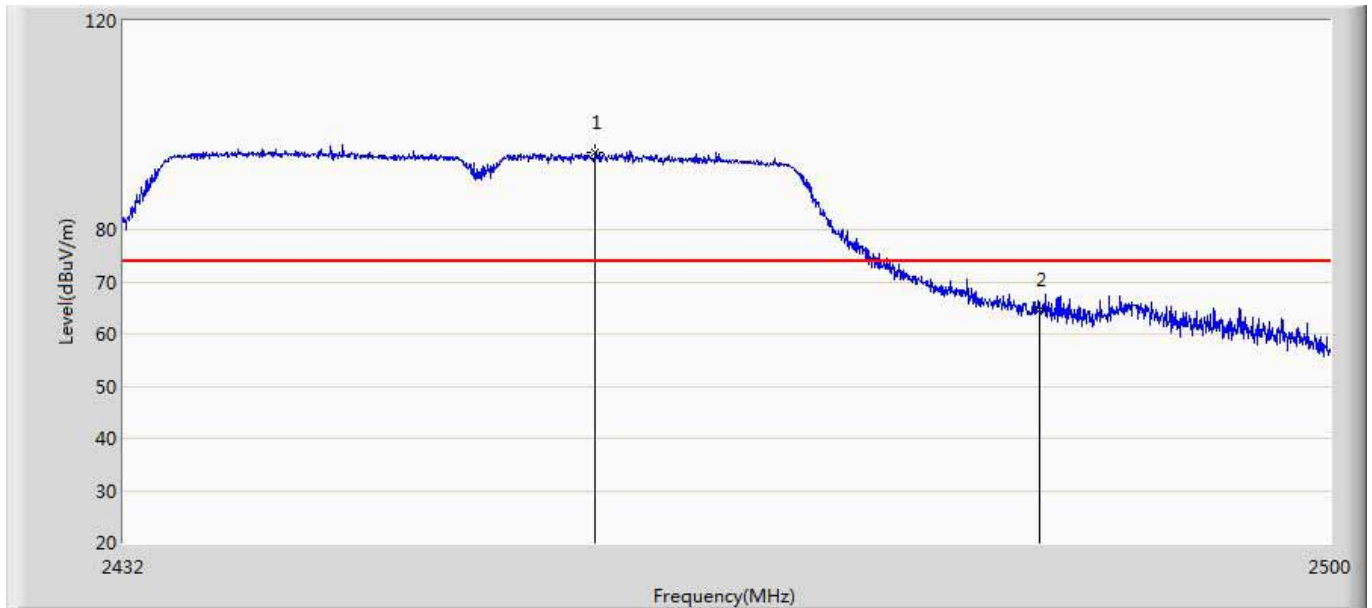
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2444.885	81.388	45.584	27.388	54.000	35.804	AV
2		2483.500	50.938	15.046	-3.062	54.000	35.891	AV

Engineer: Scott	
Site: AC5	Time: 2017/02/24 - 14:13
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 4:Transmit at 2452MHz by 802.11n40	



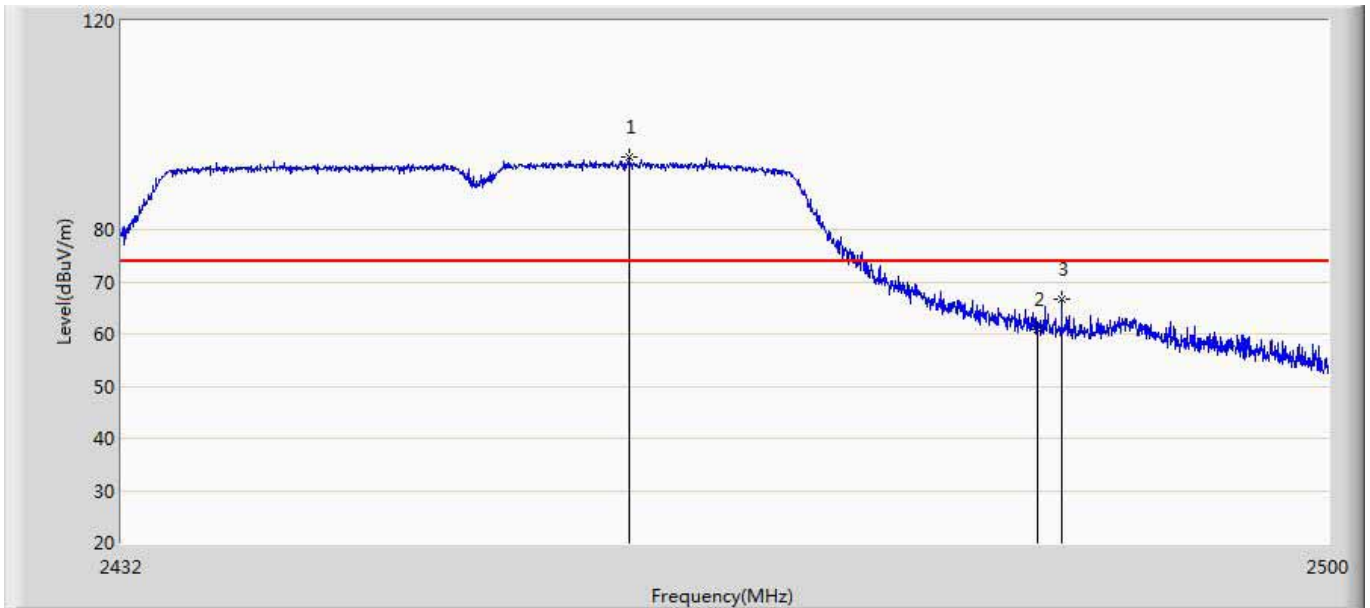
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2457.636	86.631	50.772	32.631	54.000	35.859	AV
2		2483.500	53.322	17.430	-0.678	54.000	35.891	AV

Engineer: Scott	
Site: AC5	Time: 2017/02/24 - 14:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 4: Transmit at 2452MHz by 802.11n40	



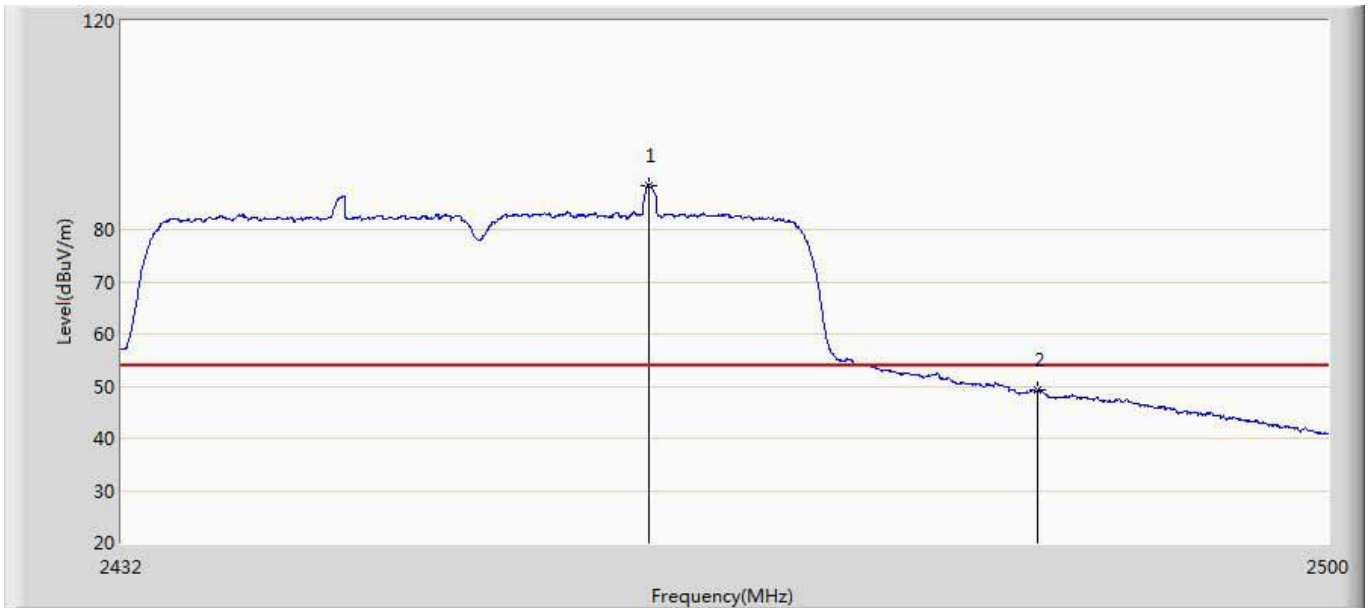
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2458.384	94.729	58.867	20.729	74.000	35.863	PK
2		2483.500	64.525	28.633	-9.475	74.000	35.891	PK

Engineer: Scott	
Site: AC5	Time: 2017/02/24 - 14:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 4:Transmit at 2452MHz by 802.11n40	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2460.424	93.873	58.002	19.873	74.000	35.871	PK
2		2483.500	60.881	24.989	-13.119	74.000	35.891	PK
3		2484.836	66.563	30.662	-7.437	74.000	35.901	PK

Engineer: Scott	
Site: AC5	Time: 2017/02/24 - 14:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Adapter	Power: DC 5V
Note: Mode 4:Transmit at 2452MHz by 802.11n40	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2461.478	88.501	52.625	34.501	54.000	35.876	AV
2		2483.500	49.221	13.329	-4.779	54.000	35.891	AV

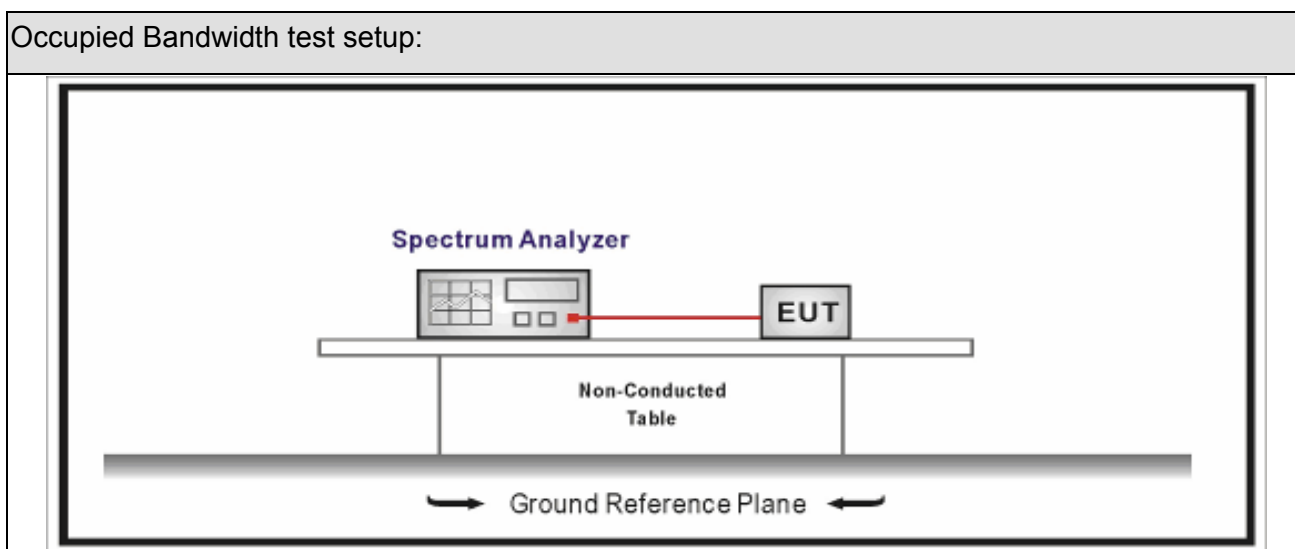
## 7. Occupied Bandwidth

### 7.1. Test Equipment

Occupied Bandwidth / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2017.01.04	2018.01.03
Spectrum Analyzer	Agilent	N9010A	MY48030494	2016.03.11	2017.03.10
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2016.04.10	2017.04.09

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

### 7.2. Test Setup





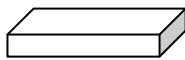
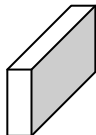
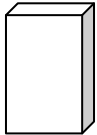
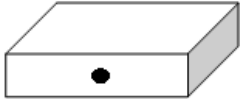


### 7.3. Limit

Occupied Bandwidth
Systems using digital modulation techniques operate in the 2400-2483.5 MHz. The minimum 6 dB bandwidth shall be at least 500 kHz

### 7.4. Test Procedure

Test Method			
	Reference Rule	Chapter	Description
<input checked="" type="checkbox"/>	ANSI C63.10	11.8	DTS bandwidth
	<input type="checkbox"/> ANSI C63.10	11.8.1	Option 1
	<input checked="" type="checkbox"/> ANSI C63.10	11.8.2	Option 2

**7.5. EUT test definition**

Item	Occupied Bandwidth			
Device Category	<input checked="" type="checkbox"/>	Portable use		
	<input type="checkbox"/>	Mobile position use		
Test mode	Mode 1, Mode 2, Mode 3, Mode 4			
Test method	<input type="checkbox"/>	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>
	<input checked="" type="checkbox"/>	Conducted		
	<input checked="" type="checkbox"/>	Chain 1		
				
	<input type="checkbox"/>	Chain 1	Chain 2	
				
		Worst Chain <input type="checkbox"/>	Worst Chain <input type="checkbox"/>	
<input type="checkbox"/>	Chain 1	Chain 2	Chain 3	
				
	Worst Chain <input type="checkbox"/>	Worst Chain <input type="checkbox"/>	Worst Chain <input type="checkbox"/>	

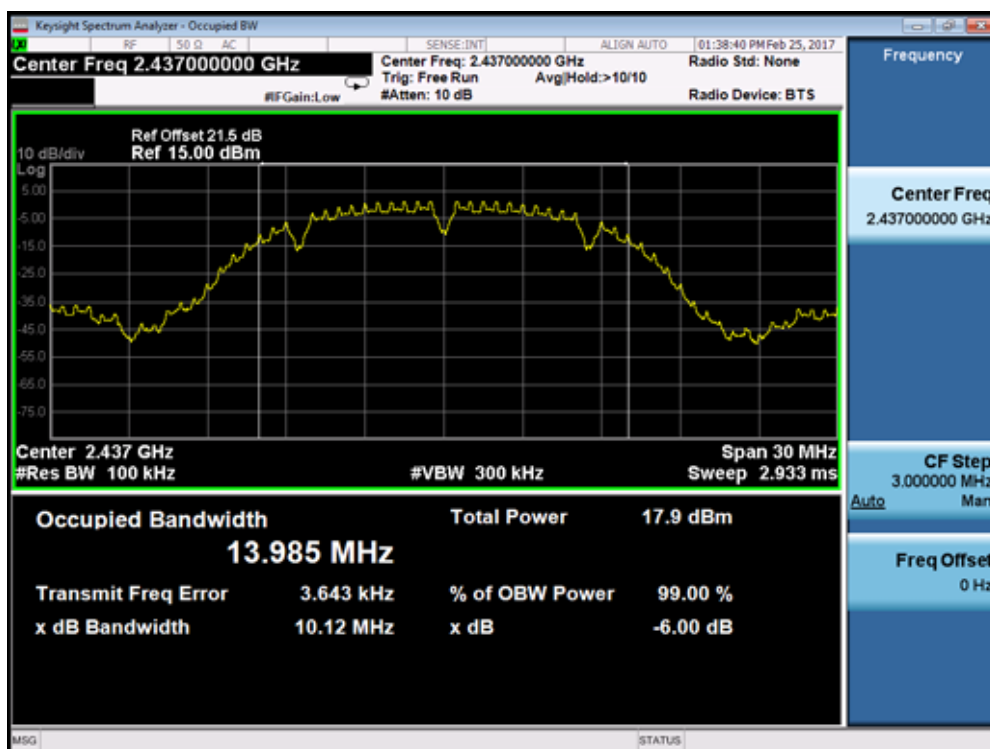
### 7.6. Test Result

Product Name	: Wireless Adapter	Test Power	: AC 120V/60Hz
Test Site	: TR-8		

Mode	CH.	Test Freq. (MHz)	99% Occupied Bandwidth (MHz)	6dB Occupied Bandwidth (MHz)	Limit (kHz)	Result
			Ant 1	Ant 1		
1	01	2412	14.002	10.12	>500	Pass
1	06	2437	13.985	10.12	>500	Pass
1	11	2462	13.989	10.12	>500	Pass
2	01	2412	16.595	16.38	>500	Pass
2	06	2437	19.584	16.34	>500	Pass
2	11	2462	16.546	16.39	>500	Pass
3	01	2412	17.717	17.57	>500	Pass
3	06	2437	20.304	17.31	>500	Pass
3	11	2462	17.700	17.58	>500	Pass
4	03	2422	36.152	35.85	>500	Pass
4	06	2437	36.290	36.37	>500	Pass
4	09	2452	36.183	35.86	>500	Pass

Note : The worst case of Occupied Bandwidth as below:

**Mode 1 CH06 (2437MHz)**



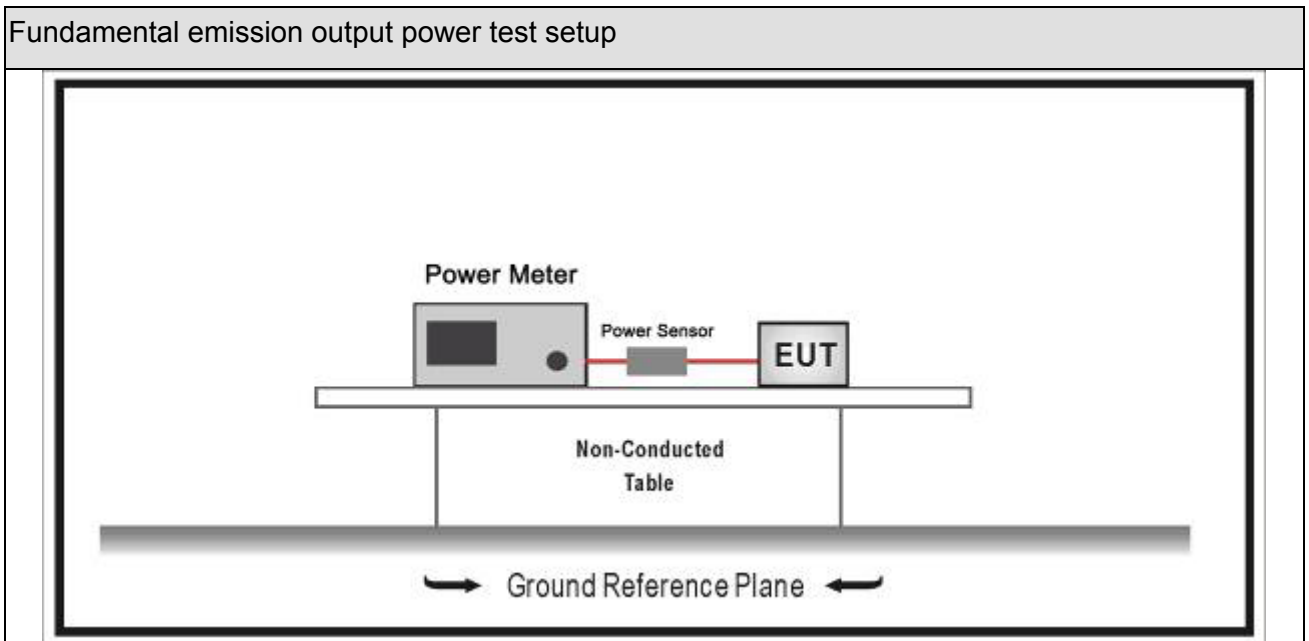
## 8. Fundamental emission output power

### 8.1. Test Equipment

Fundamental emission output power/ TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2017.01.04	2018.01.03
Spectrum Analyzer	Agilent	N9010A	MY48030494	2016.03.11	2017.03.10
Wideband Peak Power Meter	Anritsu	ML2495A	0905006	2016.11.11	2017.11.10
Power Sensor	Anritsu	MA2411B	0846014	2016.11.11	2017.11.10
Temperature/Humidity Meter	zhicheng	ZC1-2	TR8-TH	2016.04.10	2017.04.09

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

### 8.2. Test Setup



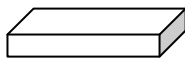
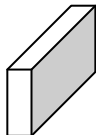
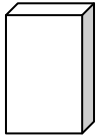
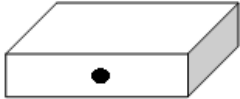


### 8.3. Limit

Fundamental emission output power Limit		
<input checked="" type="checkbox"/>	$G_{TX} < 6\text{dBi}$	$P_{out} \leq 30\text{dBm}$
<input type="checkbox"/>	$G_{TX} > 6\text{dBi}$	
<input type="checkbox"/>	Non-Fix point-point	$P_{out} \leq 30 - (G_{TX} - 6)$
<input type="checkbox"/>	Fix point-point	$P_{out} \leq 30 - [(G_{TX} - 6)]/3$
<input type="checkbox"/>	Point-to-multipoint	$P_{out} \leq 30 - (G_{TX} - 6)$
<input type="checkbox"/>	Overlap Beams	$P_{out} \leq 30 - [(G_{TX} - 6)]/3$
<input type="checkbox"/>	Aggregate power transmitted simultaneously on all beams	$P_{out} \leq 30 - [(G_{TX} - 6)]/3$
<input type="checkbox"/>	single directional beam	$P_{out} \leq 30 - [(G_{TX} - 6)]/3 + 8\text{dB}$
<p>Note 1 : <math>G_{TX}</math> directional gain of transmitting antennas.</p> <p>Note 2 : <math>P_{out}</math> is maximum peak conducted output power .</p>		

### 8.4. Test Procedure

Fundamental emission output power Test Method					
	References Rule		Chapter	Description	
<input checked="" type="checkbox"/>	ANSI C63.10		11.9	Fundamental emission output power	
	<input checked="" type="checkbox"/>	ANSI C63.10		11.9.1	Maximum peak conducted output power
	<input type="checkbox"/>	ANSI C63.10	11.9.1.1	RBW ≥ DTS bandwidth	
	<input type="checkbox"/>	ANSI C63.10	11.9.1.2	Integrated band power method	
	<input checked="" type="checkbox"/>	ANSI C63.10	11.9.1.3	PKPM1 Peak power meter method	
	<input type="checkbox"/>	ANSI C63.10		11.9.2	Maximum conducted (average) output power
	<input type="checkbox"/>	ANSI C63.10		11.9.2.2	Measurement using a spectrum analyzer (SA)
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2.2	Method AVGSA-1(Duty cycle 98%)	
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2.3	Method AVGSA-1A(Duty cycle 98%)	
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2.4	Method AVGSA-2(Duty cycle 98%)	
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2.5	Method AVGSA-2A(Duty cycle 98%)	
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2.4	Method AVGSA-3	
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2.5	Method AVGSA-3A	
	<input type="checkbox"/>	ANSI C63.10		11.9.2.3	Measurement using a power meter (PM)
	<input type="checkbox"/>	ANSI C63.10	11.9.2.3.1	Method AVGPM	
<input type="checkbox"/>	ANSI C63.10	11.9.2.3.2	Method AVGPM-G		

**8.5. EUT test definition**

Item	Fundamental emission output power			
Device Category	<input checked="" type="checkbox"/>	Portable use		
	<input type="checkbox"/>	Mobile position use		
Test mode	Mode 1, Mode 2, Mode 3, Mode 4			
Test method	<input type="checkbox"/>	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>
	<input checked="" type="checkbox"/>	Conducted		
	<input checked="" type="checkbox"/>	Chain 1		
				
	<input type="checkbox"/>	Chain 1	Chain 2	
				
		Worst Chain <input type="checkbox"/>	Worst Chain <input type="checkbox"/>	
<input type="checkbox"/>	Chain 1	Chain 2	Chain 3	
				
	Worst Chain <input type="checkbox"/>	Worst Chain <input type="checkbox"/>	Worst Chain <input type="checkbox"/>	

## 8.6. Test Result

Product Name	:	Wireless Adapter	Test Power	:	AC 120V/60Hz
Test Site	:	TR8			

Mode	Channel	Test Frequency (MHz)	Measurement Power Output (dBm)	Limit (dBm)	Result
1	01	2412	15.08	30	Pass
1	06	2437	13.93	30	Pass
1	11	2462	14.68	30	Pass
2	01	2412	22.45	30	Pass
2	02	2417	22.51	30	Pass
2	06	2437	23.62	30	Pass
2	10	2457	21.76	30	Pass
2	11	2462	21.29	30	Pass
3	01	2412	21.87	30	Pass
3	02	2417	22.23	30	Pass
3	06	2437	23.58	30	Pass
3	10	2457	21.57	30	Pass
3	11	2462	19.72	30	Pass
4	03	2422	19.03	30	Pass
4	04	2427	21.25	30	Pass
4	06	2437	22.41	30	Pass



4	08	2447	21.02	30	Pass
4	09	2452	19.61	30	Pass

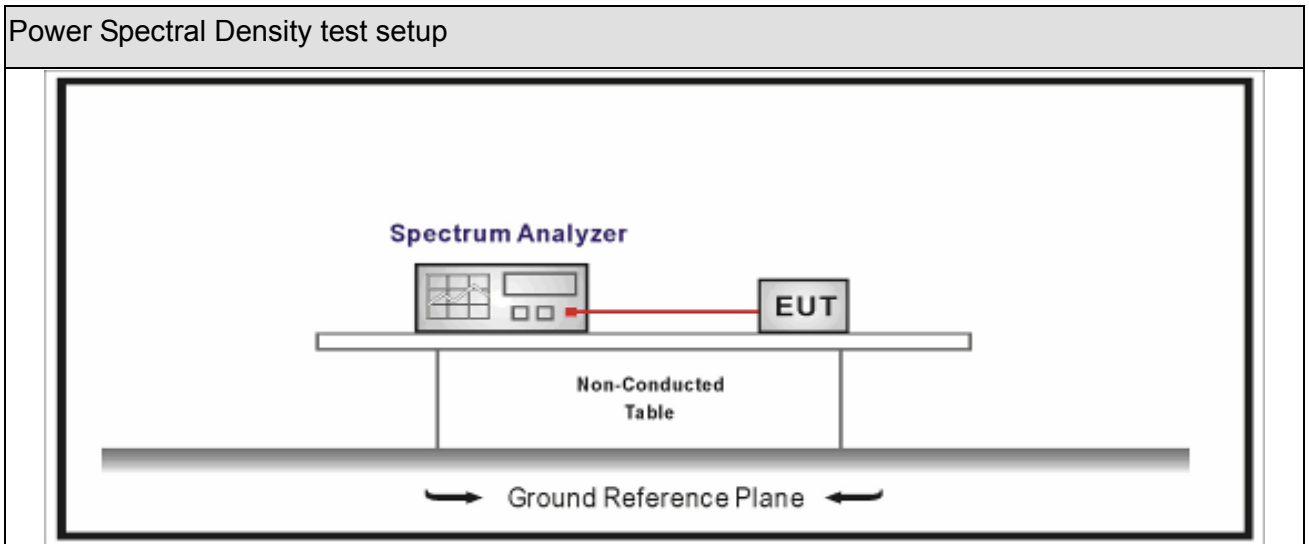
## 9. Power Spectral Density

### 9.1. Test Equipment

Power Spectral Density / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2017.01.04	2018.01.03
Spectrum Analyzer	Agilent	N9010A	MY48030494	2016.03.11	2017.03.10
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2016.04.10	2017.04.09

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

### 9.2. Test Setup



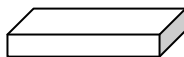
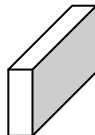
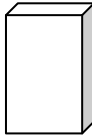



### 9.3. Limit

Power Spectral Density Limit
Power Spectral Density 8dBm/3kHz

### 9.4. Test Procedure

Power Spectral Density Test Method			
	References Rule	Chapter	Description
<input checked="" type="checkbox"/>	ANSI C63.10	11.10	Maximum power spectral density level in the fundamental emission
<input checked="" type="checkbox"/>	ANSI C63.10	11.10.2	Method PKPSD (peak PSD)
<input type="checkbox"/>	ANSI C63.10	11.10.3	Method AVGPSD-1(Duty cycle 98%)
<input type="checkbox"/>	ANSI C63.10	11.10.4	Method AVGPSD-1A(Duty cycle 98%)
<input type="checkbox"/>	ANSI C63.10	11.10.5	Method AVGPSD-2(Duty cycle < 98%)
<input type="checkbox"/>	ANSI C63.10	11.10.6	Method AVGPSD-2A(Duty cycle < 98%)
<input type="checkbox"/>	ANSI C63.10	11.10.7	Method AVGPSD-3
<input type="checkbox"/>	ANSI C63.10	11.10.8	Method AVGPSD-3A

**9.5. EUT test definition**

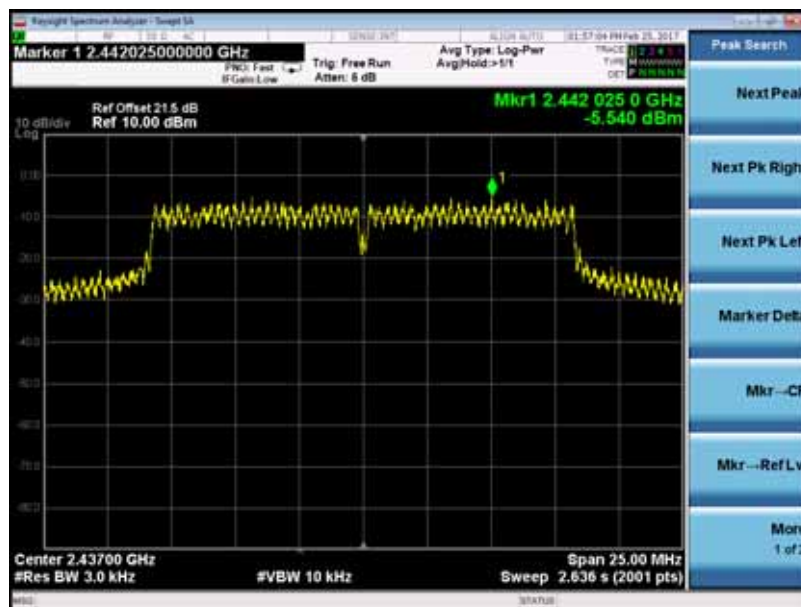
Item	Power Spectral Density Test Method			
Device Category	<input checked="" type="checkbox"/>	Portable use		
	<input type="checkbox"/>	Mobile position use		
Test mode	Mode 1, Mode 2, Mode 3, Mode 4			
Test method	<input type="checkbox"/>	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>
	<input checked="" type="checkbox"/>	Conducted		
	<input checked="" type="checkbox"/>	Chain 1		
				
	<input type="checkbox"/>	Chain 1	Chain 2	
				
		Worst Chain <input type="checkbox"/>	Worst Chain <input type="checkbox"/>	
	<input type="checkbox"/>	Chain 1	Chain 2	Chain 3
				
	Worst Chain <input type="checkbox"/>	Worst Chain <input type="checkbox"/>	Worst Chain <input type="checkbox"/>	

### 9.6. Test Result

Product Name	:	Wireless Adapter	Test Power	:	AC 120V/60Hz
Test Site	:	TR8			

Mode	Channel	Test Frequency (MHz)	Measurement PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
1	01	2412	-10.680	8	Pass
1	06	2437	-12.413	8	Pass
1	11	2462	-11.474	8	Pass
2	01	2412	-11.053	8	Pass
2	06	2437	-5.540	8	Pass
2	11	2462	-11.101	8	Pass
3	01	2412	-11.920	8	Pass
3	06	2437	-5.609	8	Pass
3	11	2462	-14.891	8	Pass
4	03	2422	-18.407	8	Pass
4	06	2437	-13.914	8	Pass
4	09	2452	-18.763	8	Pass

Mode 2 CH06(2437MHz)



## 10. Antenna Requirement

### 10.1. Limit

Antenna Requirement Limit
<p>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. 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 provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.</p>

### 10.2. Antenna Connector Construction

Antenna Connector Construction	
<input checked="" type="checkbox"/>	The use of a permanently attached antenna
<input type="checkbox"/>	The antenna use of a unique coupling to the intentional radiator
<input type="checkbox"/>	The use of a nonstandard antenna jack or electrical connector
Please refer to the attached document "Internal Photograph" to show the antenna connector.	

\_\_\_\_\_ The End \_\_\_\_\_