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检测
TESTING
CNAS L5313



DEKRA

Test Report

FCC Part15 Subpart E

Product Name : AC1200 Wireless Dual Band Router

Model No. : Archer C50

FCC ID : TE7C50V3

Applicant : TP-Link Technologies Co., Ltd.

Address : Building 24 (floors 1,3,4,5) and 28 (floors1-4)
Central Science and Technology Park,Shennan Rd,
Nanshan, Shenzhen,China

Date of Receipt : Apr. 28th, 2017

Test Date : Apr. 28th, 2017~ Jun. 20th , 2017

Issued Date : Jun. 27th, 2017

Report No. : 1752112R-RF-US-P09V02

Report Version : V1.0

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.

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Test Report Certification

Issued Date : Jun. 27th, 2017

Report No. : 1752112R-RF-US-P09V02



Product Name : AC1200 Wireless Dual Band Router
Applicant : TP-Link Technologies Co., Ltd.
Address : Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China
Manufacturer : TP-Link Technologies Co., Ltd.
Address : Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China
Model No. : Archer C50
FCC ID : TE7C50V3
EUT Voltage : DC 9V
Test Voltage : AC 120V/60Hz
Brand Name : TP-Link
Applicable Standard : FCC CFR Title 47 Part 15 Subpart E
ANSI C63.4:2014;
ANSI C63.10:2013;
789033 D02 General UNII Test Procedures New Rules v01r04
KDB 662911 D01 Multiple Transmitter Output v02r01
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 :



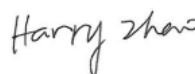
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(Engineering Manager: Harry Zhao)

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History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
1752112R-RF-US-P09V02	V1.0	Initial Issued Report	Jun. 27th, 2017

1. General Information

1.1. EUT Description

Product Name	AC1200 Wireless Dual Band Router					
Brand Name	TP-Link					
Model No.	Archer C50					
EUT Voltage	DC 9V					
Test Voltage	AC 120V/60Hz					
Type of Modulation	OFDM					
Data Rate	802.11a: 6/9/12/18/24/36/48/54Mbps					
	802.11n: up to 300Mbps					
	802.11ac: up to 866.6Mbps					
Channel Control	Auto					
Transmit modes	☒	802.11a	☒	802.11n(20MHz)	☒	802.11n(40MHz)
	☒	802.11ac(20MHz)	☒	802.11ac(40MHz)	☒	802.11ac(80MHz)
Support Bands	☒	5150MHz~5250MHz	☐	Outdoor AP		
			☒	Indoor AP		
			☐	Fixed point-to-point AP		
			☐	Fixed point-to-Multi point AP		
			☐	Mobile and Portable Client		
	☐	5250MHz~5350MHz				
	☐	5470MHz~5725MHz	☐	With TDWR Channels		
			☐	Without TDWR Channels		
	☒	5725MHz~5850MHz				

1.2. Antenna information

Antenna manufacturer	N/A					
Antenna Delivery	☐	1*TX+1*RX	☒	2*TX+2*RX	☐	3*TX+3*RX
Antenna technology	☐	SISO				
	☒	MIMO	☐	Basic		
			☐	Sectorized antenna systems		
			☐	Cross-polarized antennas		
			☐	Unequal antenna gains, with equal transmit powers		
			☐	Spatial Multiplexing		
			☒	CDD		
			☐	Beam-forming		
Antenna Type	☒	External	☒	Dipole		
	☐	Internal	☐	PIFA		
			☐	PCB		
			☐	Ceramic Chip Antenna		
			☐	Metal plate type F antenna		
			☐	Cross-polarize Antenna		
Antenna Gain #0	Band 1:2.74dBi Band 4:4.07dBi					
Antenna Gain #1	Band 1:2.99dBi Band 4:4.44dBi					

1.3. Working Frequency of Each Channel:

802.11a/n/ac(20MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180 MHz	40	5200 MHz	44	5220 MHz	48	5240 MHz
149	5745 MHz	153	5765 MHz	157	5785 MHz	161	5805 MHz
165	5825MHz	N/A	N/A	N/A	N/A	N/A	N/A
802.11n/ac(40MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz	151	5755 MHz	159	5795 MHz
802.11ac(80MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
42	5210 MHz	155	5775 MHz	N/A	N/A	N/A	N/A

1.4. Mode of Operation

DEKRA Testing and Certification (Suzhou) Co., Ltd. has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode
Mode 1: Transmit by 802.11a
Mode 2: Transmit by 802.11n(20MHz)
Mode 3: Transmit by 802.11n(40MHz)
Mode 4: Transmit by 802.11ac(20MHz)
Mode 5: Transmit by 802.11ac(40MHz)
Mode 6: Transmit by 802.11ac(80MHz)

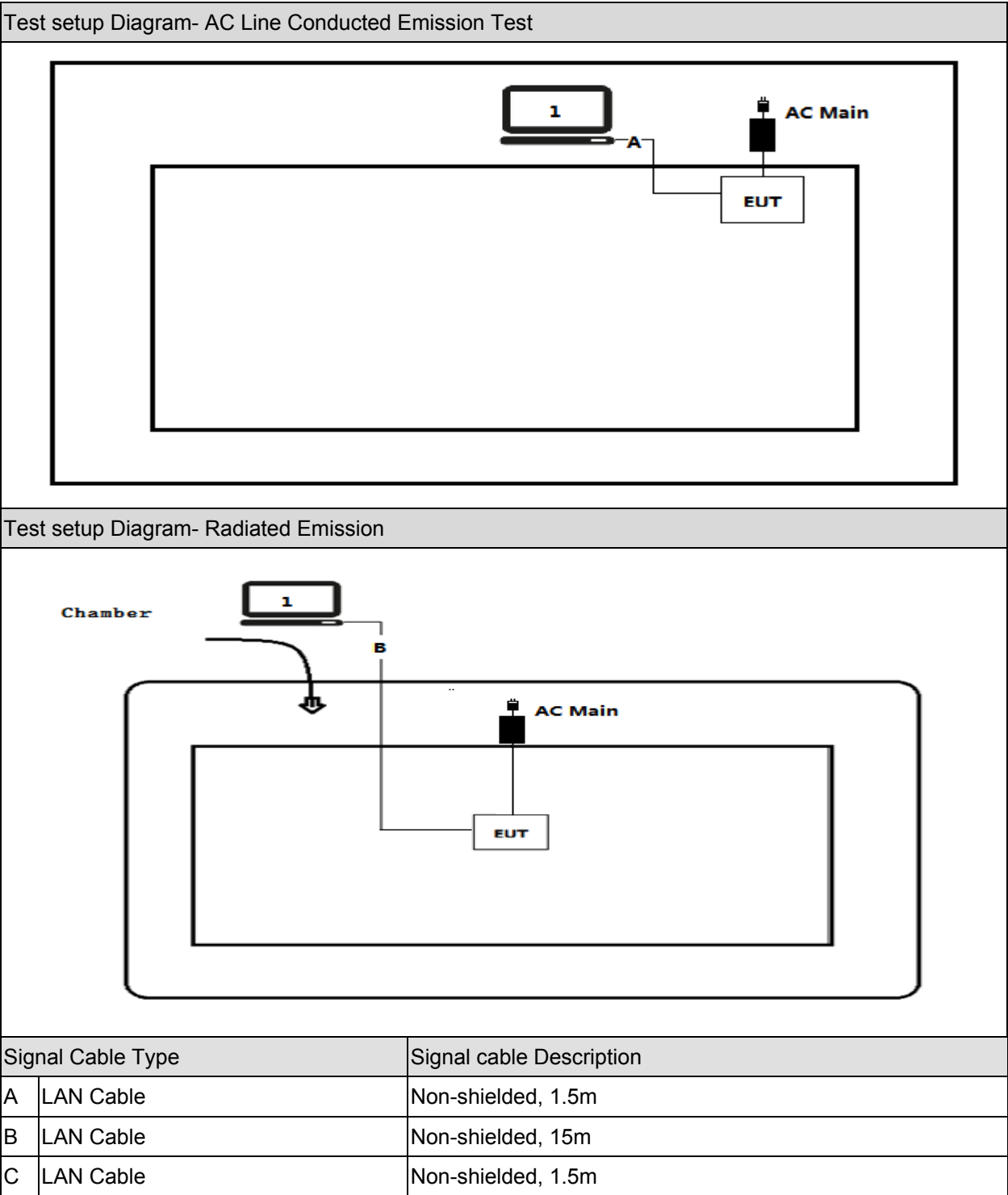
Note 1: Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

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	Think pad	x220	SUA0600195	Non-shielded

1.6. Configuration of Tested System



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	Input RF commands(CMD), and set the test mode and channel, then traffic and test.

2. Technical Test

2.1. Summary of Test Result

- ☒ No deviations from the test standards
☐ Deviations from the test standards as below description:

Performed Test Item	Normative References	Limit	Result
Conducted Emission	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.207	FCC 15.207	PASS
Radiated Emission	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.209	FCC 15.209	PASS
Emission bandwidth and occupied bandwidth	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.407(a)	FCC 15.407(e)	PASS
6dB Emission Bandwidth	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.407(a)	FCC 15.407(e)	PASS
Power Output	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.407(a)	FCC 15.407(a)	PASS
Peak Power Spectral Density	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.407(a)	FCC 15.407(a)	PASS
Radiated Emission Band Edge	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.205, 15.407(b)	FCC 15.407(b)	PASS
Frequency Stability	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.407(g)	Within the band	PASS
Antenna Requirement	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.203	FCC 15.203	PASS

2.2. Test Frequency configuration:

Modulation Mode	Channel	Frequency	Channel	Frequency	Channel	Frequency
802.11a/n(20MHz)/ ac(20MHz)	36	5180MHz	44	5220MHz	48	5240MHz
	149	5745MHz	157	5785MHz	165	5825MHz
802.11n(40MHz)/ ac(40MHz)	38	5190MHz	46	5230MHz	N/A	N/A
	151	5755MHz	159	5795MHz	N/A	N/A
802.11ac(80MHz)	42	5210MHz	155	5775MHz	N/A	N/A

2.3. Power Parameter Value of the test software

Test Mode	Frequency	Power Setting		
		Ant 0	Ant 1	Ant 0+1
802.11a	5180	-	-	1B
	5220	-	-	1A
	5240	-	-	1A
	5745	-	-	28
	5785	-	-	28
	5825	-	-	28
802.11n(20MHz)	5180	-	-	1B
	5220	-	-	1B
	5240	-	-	1E
	5745	-	-	28
	5785	-	-	28
	5825	-	-	28
802.11n(40MHz)	5190	-	-	11
	5230	-	-	1E
	5755	-	-	1F
	5795	-	-	28
802.11ac(20MHz)	5180	-	-	1B
	5220	-	-	1A
	5240	-	-	1E
	5745	-	-	28
	5785	-	-	28
	5825	-	-	28
802.11ac(40MHz)	5190	-	-	11
	5230	-	-	1E
	5755	-	-	1E
	5795	-	-	28
802.11ac(80MHz)	5210	-	-	0C
	5775	-	-	17

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

SpatialStreams(N ote1)	MCSInd ex	Modulationt ype	Codingr ate	Data Rate(Mb/s)							
				20MHz		40MHz		80MHz		160MHz	
				Guard Interval		Guard Interval		Guard Interval		Guard Interval	
				800n s	400n s	800n s	400n s	800n s	400ns	800ns	400n s
1	0	BPSK	1/2	6.5	7.2	13.5	15	29.3	32.5	58.5	65
	1	QPSK	1/2	13	14.4	27	30	58.5	65	117	130
	2	QPSK	3/4	19.5	21.7	40.5	45	87.8	97.5	175.5	195
	3	16-QAM	1/2	26	28.9	54	60	117	130	234	260
	4	16-QAM	3/4	39	43.3	81	90	175.5	195	351	390
	5	64-QAM	2/3	52	57.8	108	120	234	260	468	520
	6	64-QAM	3/4	58.5	65	121.5	135	263.3	292.5	526.5	585
	7	64-QAM	5/6	65	72.2	135	150	292.5	325	585	650
	8	256-QAM	3/4	78	86.7	162	180	351	390	702	780
	9	256-QAM	5/6	N/A	N/A	180	200	390	433.3	780	866.7
2	0	BPSK	1/2	13	14.4	27	30	58.6	65	117	130
	1	QPSK	1/2	26	28.8	54	60	117	130	234	260
	2	QPSK	3/4	39	43.4	81	90	175.6	195	351	390
	3	16-QAM	1/2	52	57.8	108	120	234	260	468	520
	4	16-QAM	3/4	78	86.6	162	180	351	390	702	780
	5	64-QAM	2/3	104	115.6	216	240	468	520	936	1040
	6	64-QAM	3/4	117	130	243	270	526.6	585	1053	1170
	7	64-QAM	5/6	130	144.4	270	300	585	650	1170	1300
	8	256-QAM	3/4	156	173.4	324	360	702	780	1404	1560
	9	256-QAM	5/6	N/A	N/A	360	400	780	866.6	1560	1733. 4
Note 1 : The blue form is the maximum power data rate											

2.5. Duty Cycle

Test Mode	Tx On (ms)	Tx Off (ms)	VBW	Tx On + Tx Off (ms)	Duty Cycle
802.11a	1.428	0.024	710Hz	1.452	98.30%
802.11n(20MHz)	1.340	0.02	820Hz	1.360	98.50%
802.11n(40MHz)	0.660	0.02	2KHz	0.680	97.05%
802.11ac(20MHz)	1.344	0.28	750Hz	1.372	97.95%
802.11ac(40MHz)	0.672	0.016	2KHz	0.688	97.67%
802.11ac(80MHz)	0.332	0.016	3KHz	0.348	95.40%

Note 1: T means the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

Note 2: According to KDB 789033, when test for Radiated Emission Band Edge and Radiated Emission, $VBW \geq 1/T$ will be used.

802.11a



802.11n(20MHz)



802.11n(40MHz)



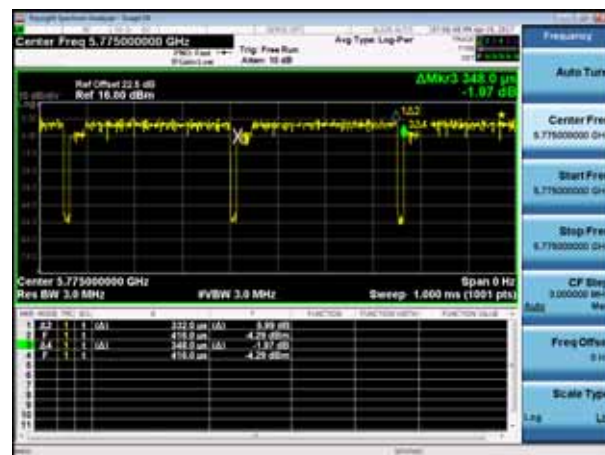
802.11ac(20MHz)



802.11ac(40MHz)



802.11ac(80MHz)



2.6. 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

2.7. 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	$\pm 1.27\text{dB}$
Frequency Stability	$\pm 100\text{ Hz}$

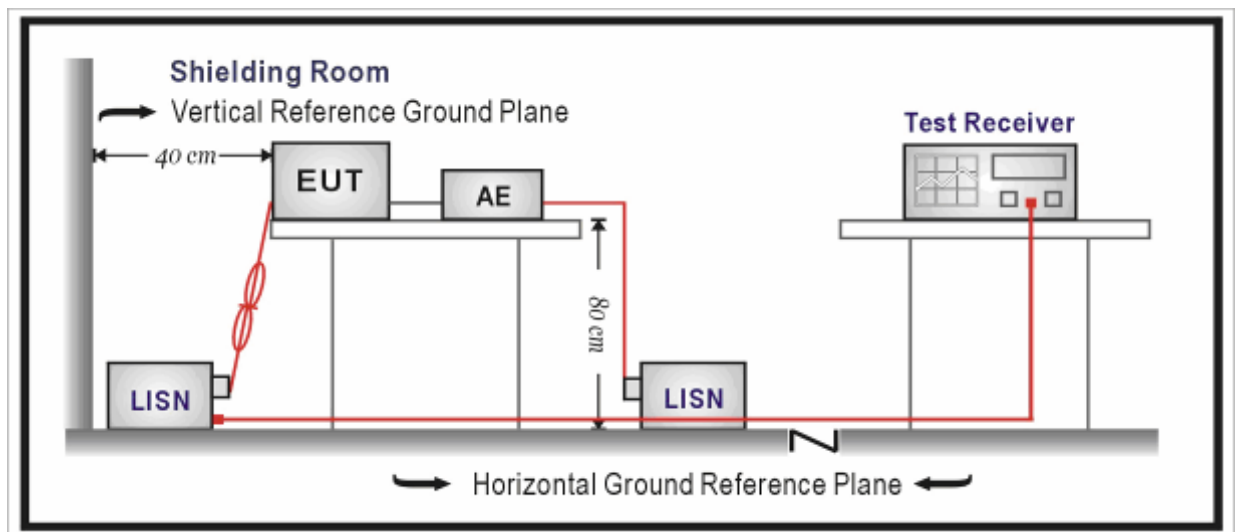
3. Conducted Emission

3.1. Test Equipment

Conducted Emission / TR-1					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100906	2016.03.05	2018.03.04
Two-Line V-Network	R&S	ENV 216	101189	2016.06.16	2017.07.15
Two-Line V-Network	R&S	ENV 216	101044	2016.09.16	2017.09.15
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	N/A	N/A
50ohm Termination	SHX	TF2	07081402	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 (MHz)	QP (dB μ V)	AV (dB μ V)
0.15 - 0.50	66 – 56	56 – 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

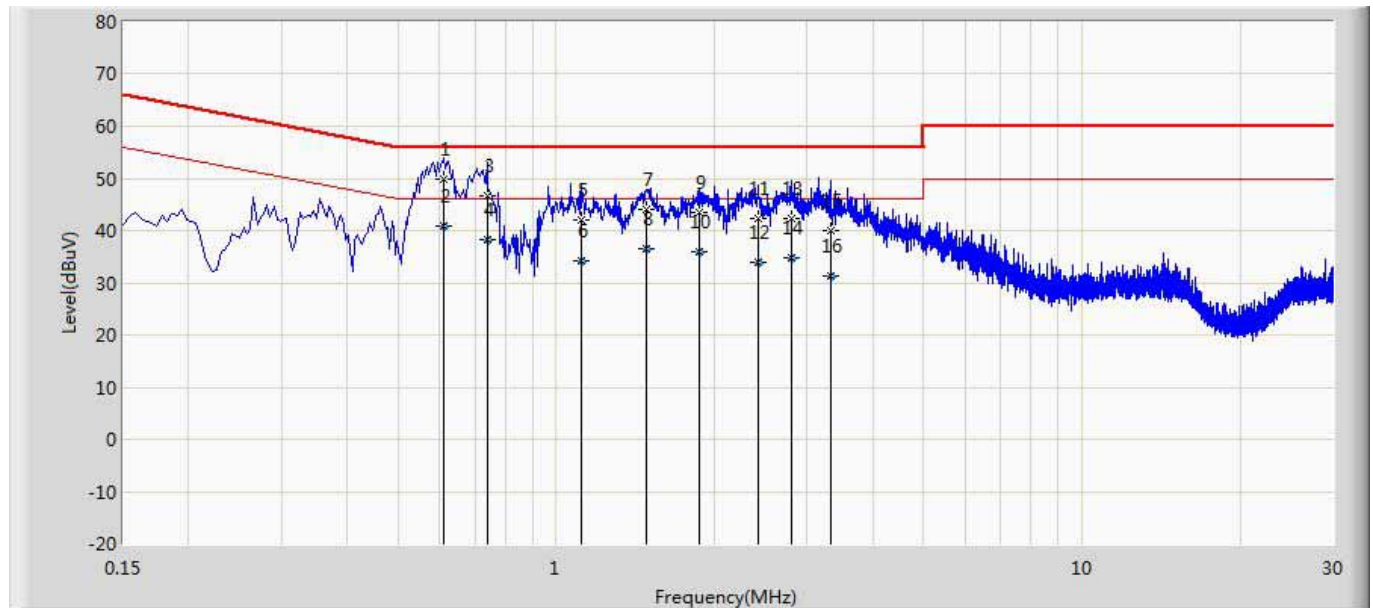
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

3.4. Test Procedure

Test Method			
	References Rule	Chapter	Item
☒	ANSI C63.10-2013	6.2	Standard test method for ac power-line conducted emissions from unlicensed wireless devices
☒	ANSI C63.4-2014	7	AC power-line conducted emission measurements

3.5. Test Result

Site: TR1	Time: 2017/05/09
Limit: FCC_Part15.207_CE_AC Power_ClassB	Margin: 0
Probe: ENV216-L1	Polarity: Line
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5180MHz by 802.11a	

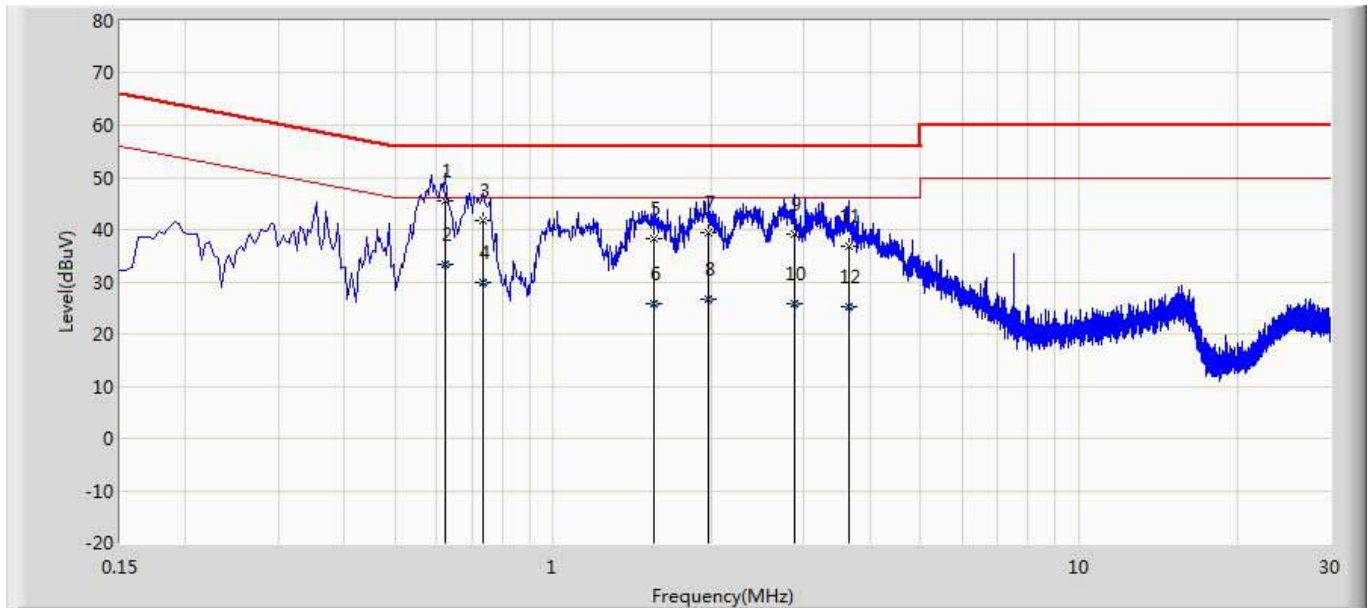


No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1		0.610	49.864	40.174	-6.136	56.000	9.620	0.070	0.000	QP
2	*	0.610	40.999	31.309	-5.001	46.000	9.620	0.070	0.000	AV
3		0.738	46.574	36.884	-9.426	56.000	9.620	0.070	0.000	QP
4		0.738	38.193	28.503	-7.807	46.000	9.620	0.070	0.000	AV
5		1.118	42.007	32.297	-13.993	56.000	9.630	0.080	0.000	QP
6		1.118	34.084	24.374	-11.916	46.000	9.630	0.080	0.000	AV
7		1.486	43.977	34.255	-12.023	56.000	9.632	0.090	0.000	QP
8		1.486	36.450	26.728	-9.550	46.000	9.632	0.090	0.000	AV
9		1.874	43.388	33.648	-12.612	56.000	9.640	0.100	0.000	QP
10		1.874	35.913	26.173	-10.087	46.000	9.640	0.100	0.000	AV
11		2.426	42.365	32.615	-13.635	56.000	9.640	0.110	0.000	QP
12		2.426	33.983	24.233	-12.017	46.000	9.640	0.110	0.000	AV
13		2.794	42.409	32.643	-13.591	56.000	9.650	0.116	0.000	QP
14		2.794	34.728	24.962	-11.272	46.000	9.650	0.116	0.000	AV
15		3.334	39.886	30.106	-16.114	56.000	9.650	0.130	0.000	QP
16		3.334	31.309	21.529	-14.691	46.000	9.650	0.130	0.000	AV

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Site: TR1	Time: 2017/05/09
Limit: FCC_Part15.207_CE_AC Power_ClassB	Margin: 0
Probe: ENV216-N	Polarity: Neutral
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5180MHz by 802.11a	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1	*	0.622	45.488	35.778	-10.512	56.000	9.640	0.070	0.000	QP
2		0.622	33.330	23.620	-12.670	46.000	9.640	0.070	0.000	AV
3		0.734	41.722	32.012	-14.278	56.000	9.640	0.070	0.000	QP
4		0.734	29.894	20.184	-16.106	46.000	9.640	0.070	0.000	AV
5		1.550	38.214	28.484	-17.786	56.000	9.640	0.090	0.000	QP
6		1.550	25.764	16.034	-20.236	46.000	9.640	0.090	0.000	AV
7		1.970	39.511	29.771	-16.489	56.000	9.640	0.100	0.000	QP
8		1.970	26.743	17.003	-19.257	46.000	9.640	0.100	0.000	AV
9		2.882	39.237	29.467	-16.763	56.000	9.650	0.120	0.000	QP
10		2.882	25.660	15.890	-20.340	46.000	9.650	0.120	0.000	AV
11		3.646	36.815	27.025	-19.185	56.000	9.660	0.130	0.000	QP
12		3.646	25.294	15.504	-20.706	46.000	9.660	0.130	0.000	AV

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

4. Radiated Emission

4.1. Test Equipment

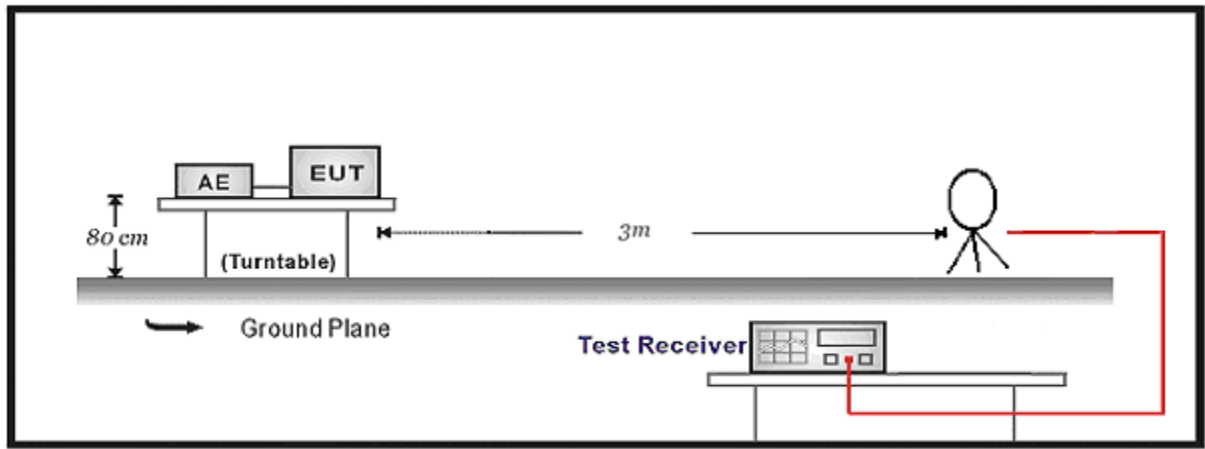
Radiated Emission / AC-2					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100573	2016.03.29	2018.03.28
Loop Antenna	R&S	HFH2-Z2	833799/003	2016.11.16	2017.11.15
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2016.10.16	2017.10.15
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2016.03.02	2018.03.01
Temperature/Humidity Meter	Zhichen	ZC1-2	AC2-TH	2017.01.03	2018.01.02

Radiated Emission / AC-5					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Preamplifier	Miteq	NSP1800-25	1364185	2016.05.06	2018.05.05
Preamplifier	DEKRA Testing and Certification (Suzhou) Co., Ltd.	AP-040G	CHM-0906001	2016.05.06	2018.05.05
DRG Horn	ETS-Lindgren	3117	00123988	2016.01.22	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	2018.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2016.03.02	2018.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	AC5-C3	2016.03.02	2018.03.01
EMI Receiver	Agilent	N9038A	MY51210196	2016.06.10	2018.06.09
Temperature/Humidity Meter	Zhichen	ZC1-2	AC5-TH	2017.01.03	2018.01.02

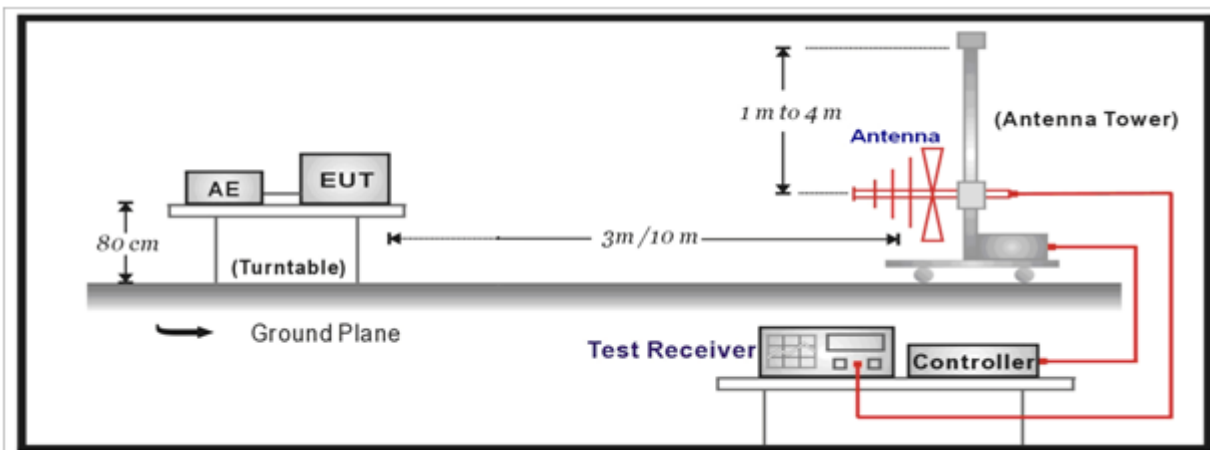
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

4.2. Test Setup

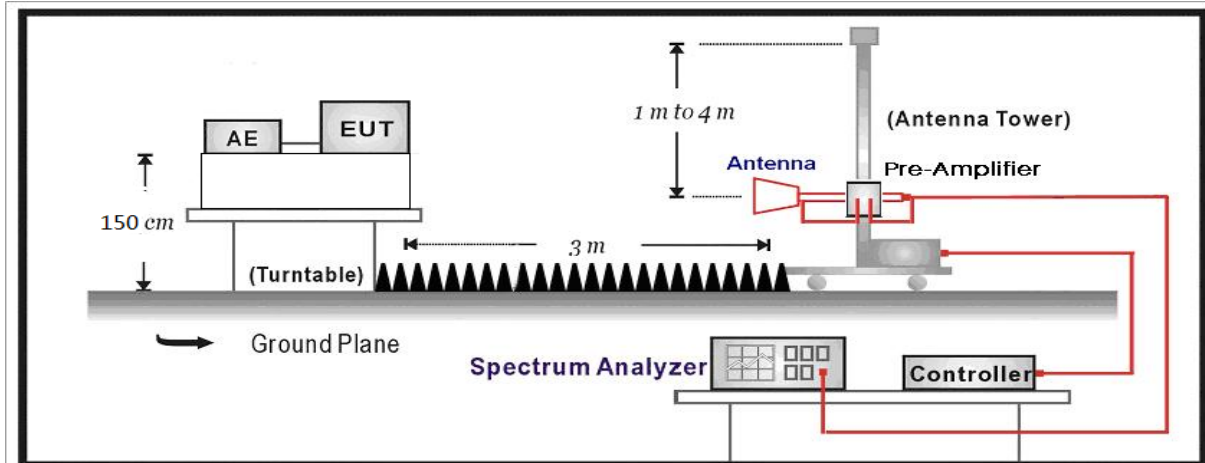
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limit

FCC Part 15 Subpart C Paragraph 15.209 (Restricted Band Emissions Limit)		
Frequency (MHz)	Distance (m)	Level (dB μ V/m)
0.009-0.490	300	2400/F(kHz)
0.490-1.705	30	24000/F(kHz)
1.705-30.0	30	30
30-88	3	100**
88-216	3	150**
216-960	3	200**
Above 960	3	500

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).

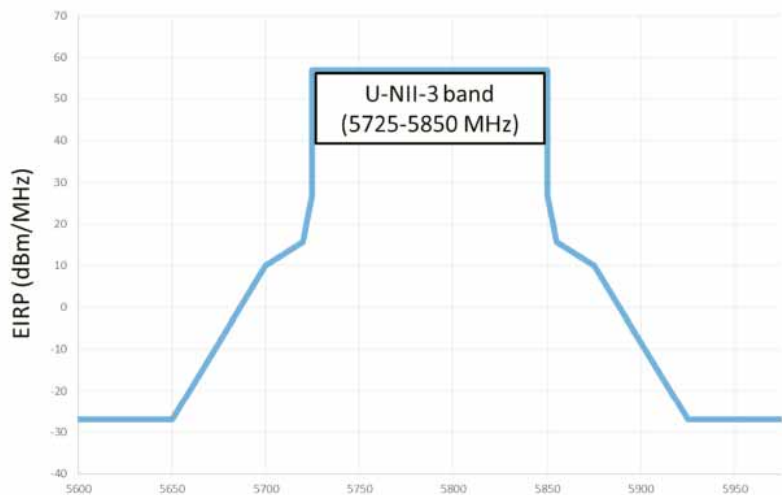
FCC Part 15 Subpart C Paragraph 15.205 (Restricted Band)

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			

FCC Part 15 Subpart C Paragraph 15.407(5)(b) (Unrestricted Band Emissions Limit)

Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m (dB μ V/m)
5150 - 5250	-27	68.3
5250 - 5350	-27	68.3
5470 - 5725	-27	68.3

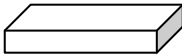
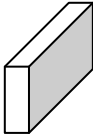
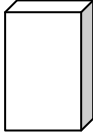
FCC 16-24-A1

Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)
5725 - 5825	 U-NII-3 band (5725-5850 MHz)

4.4. Test Procedure

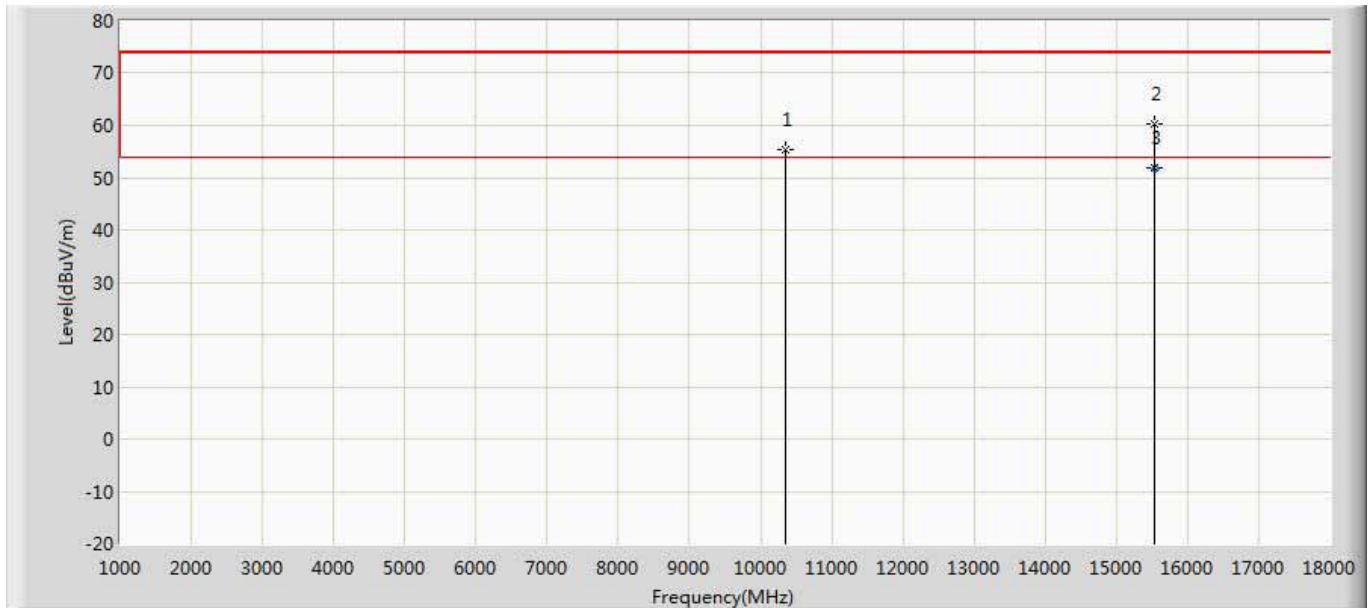
Test Method				
	References Rule		Chapter	Description
☐	ANSI C63.10		12.7.3	Emissions in non-restricted frequency bands
☒	ANSI C63.10		12.7.2	Emissions in restricted frequency bands
	☒	ANSI C63.10	12.7.5	Radiated emission measurements
	☒	ANSI C63.10	12.7.6	Procedure for peak unwanted emissions measurements above 1000 MHz
	☒	ANSI C63.10	12.7.7	Procedures for average unwanted emissions measurements above 1000 MHz
	☐	ANSI C63.10	12.7.7.2	Method AD (average detection)—primary method
	☒	ANSI C63.10	12.7.7.3	Method VB-A (Alternative)
	☒	ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
	☒	ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
	☒	ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz
☐	FCC KDB 789033 D02v01r04		G.2	Unwanted Emissions that fall Outside of the Restricted Bands
☐	FCC KDB 789033 D02v01r04		G.1	Unwanted Emissions in the Restricted Bands
	☐	FCC KDB 789033 D02v01r04	G.4	Procedure for Unwanted Emissions Measurements below 1000 MHz
	☐	FCC KDB 789033 D02v01r03	G.5	Procedure for Unwanted Maximum Emissions Measurements above 1000 MHz
	☐	FCC KDB 789033 D02v01r04	G.6	Procedures for Average Unwanted Emissions Measurements above 1000 MHz
	☐	FCC KDB 789033 D02v01r04	G.6.c	Method AD (Average detection)—primary method
	☐	FCC KDB 789033 D02v01r04	G.6.d	Method VB (Averaging using reduced video bandwidth): Alternative method.

4.5. EUT test Axis definition

Item	Radiated Emission			
Device Category	☐	Outdoor AP		
	☒	Indoor AP		
	☐	Fixed point-to-point AP		
	☐	Outdoor fixed point-to-multipoint AP		
	☐	Client		
Test mode	Mode 1-6			
Test method	☒	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis ☒	Worst Axis ☐	Worst Axis ☐
	☐	Conducted		
	☐	Chain 0		
				
	☐	Chain 0	Chain 1	
				
	☐	Chain 0	Chain 1	Chain 2
				

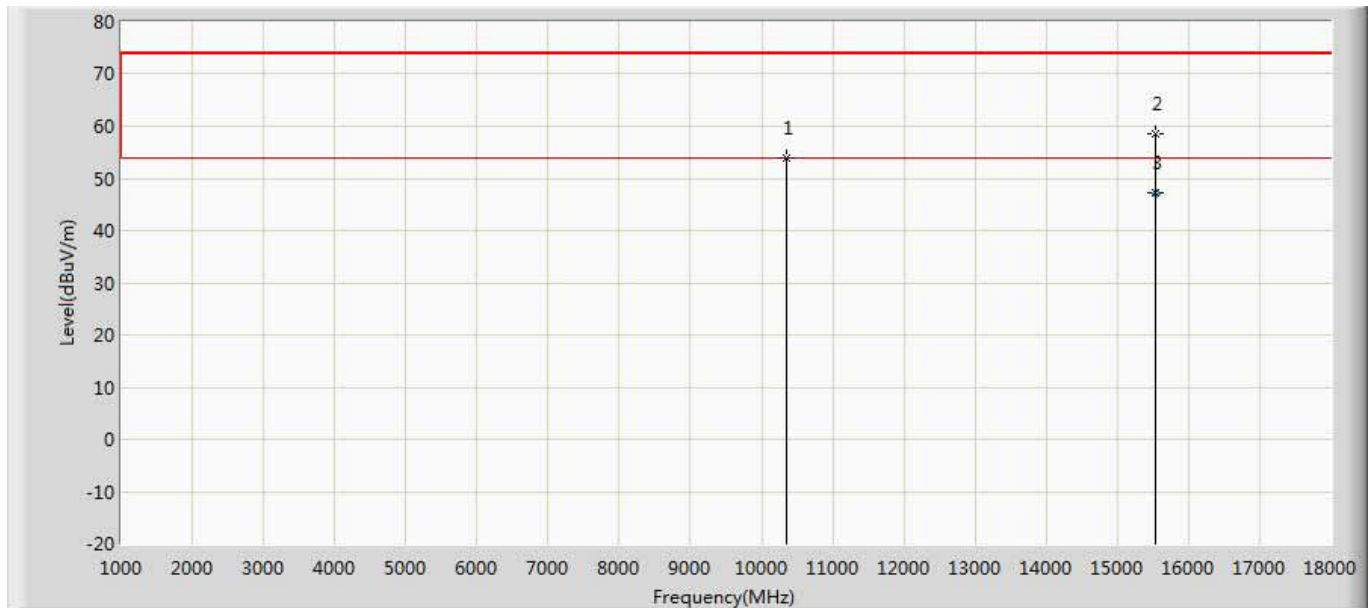
4.6. Test Result

Profile: 1752112R	Page No.: 276
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5180MHZ by 802.11a	



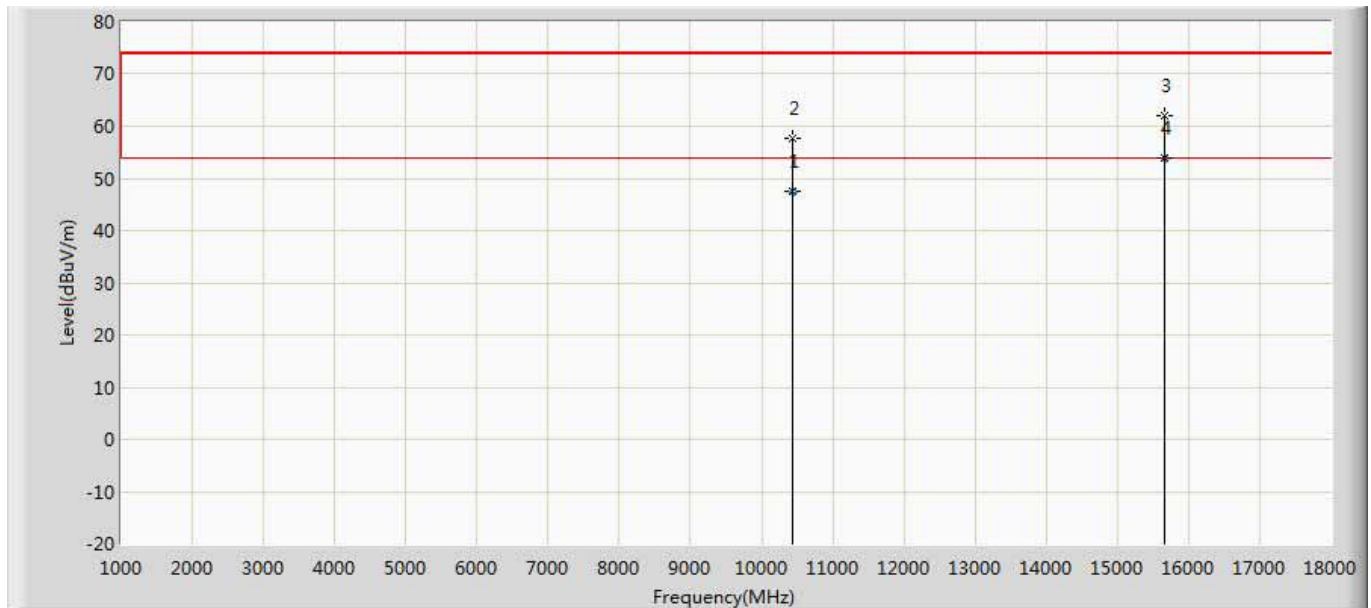
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10358.500	55.444	43.640	-18.556	74.000	11.804	PK
2		15535.000	60.206	42.552	-13.794	74.000	17.654	PK
3	*	15536.400	51.864	34.220	-2.136	54.000	17.645	AV

Profile: 1752112R	Page No.: 298
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5180MHZ by 802.11a	



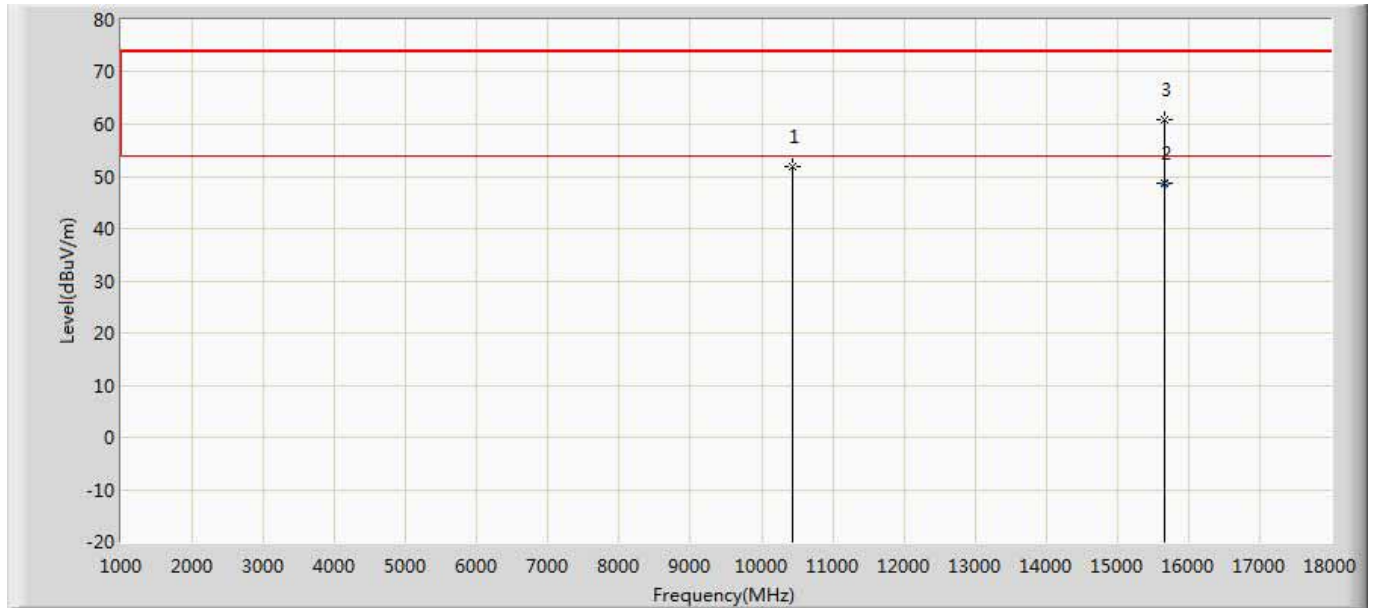
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10358.500	53.849	42.045	-20.151	74.000	11.804	PK
2		15535.000	58.674	41.020	-15.326	74.000	17.654	PK
3	*	15539.750	47.153	29.530	-6.847	54.000	17.623	AV

Profile: 1752112R	Page No.: 273
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:22
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5220MHZ by 802.11a	



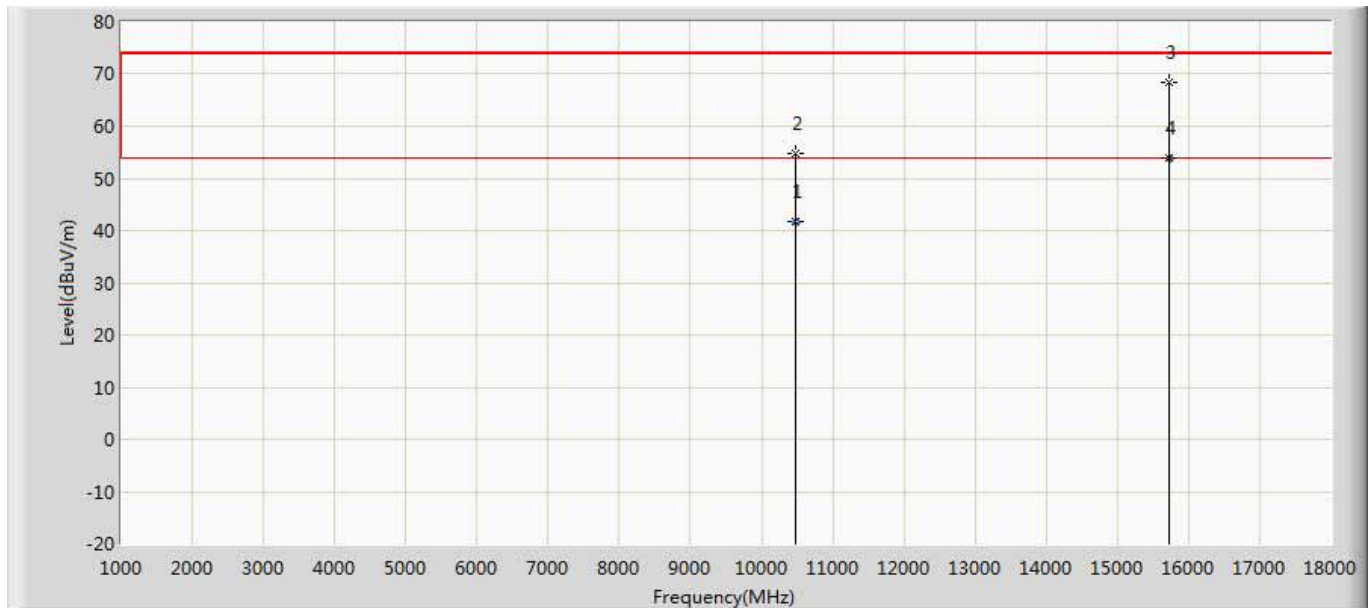
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10440.550	47.518	35.460	-6.482	54.000	12.059	AV
2		10443.500	57.648	45.746	-16.352	74.000	11.903	PK
3		15654.000	62.172	43.915	-11.828	74.000	18.257	PK
4	*	15663.700	53.937	35.860	-0.063	54.000	18.077	AV

Profile: 1752112R	Page No.: 274
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5220MHZ by 802.11a	



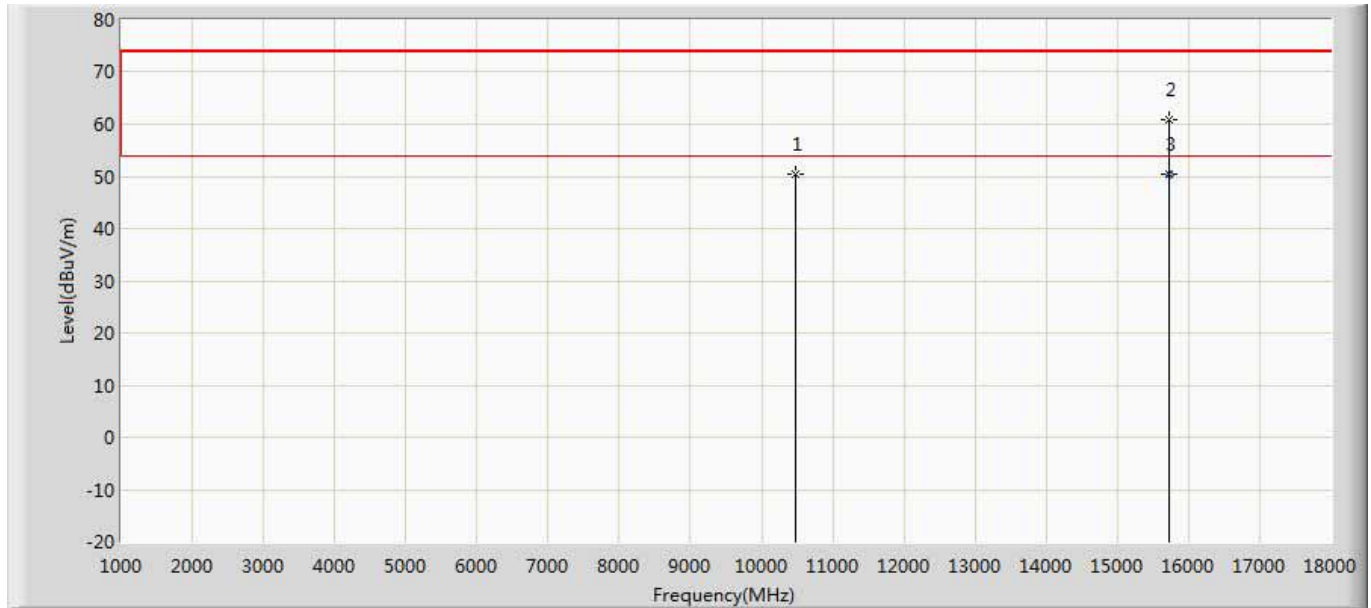
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10435.000	51.745	39.392	-22.255	74.000	12.353	PK
2	*	15661.860	48.551	30.440	-5.449	54.000	18.112	AV
3		15662.500	60.889	42.789	-13.111	74.000	18.100	PK

Profile: 1752112R	Page No.: 275
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5240MHZ by 802.11a	



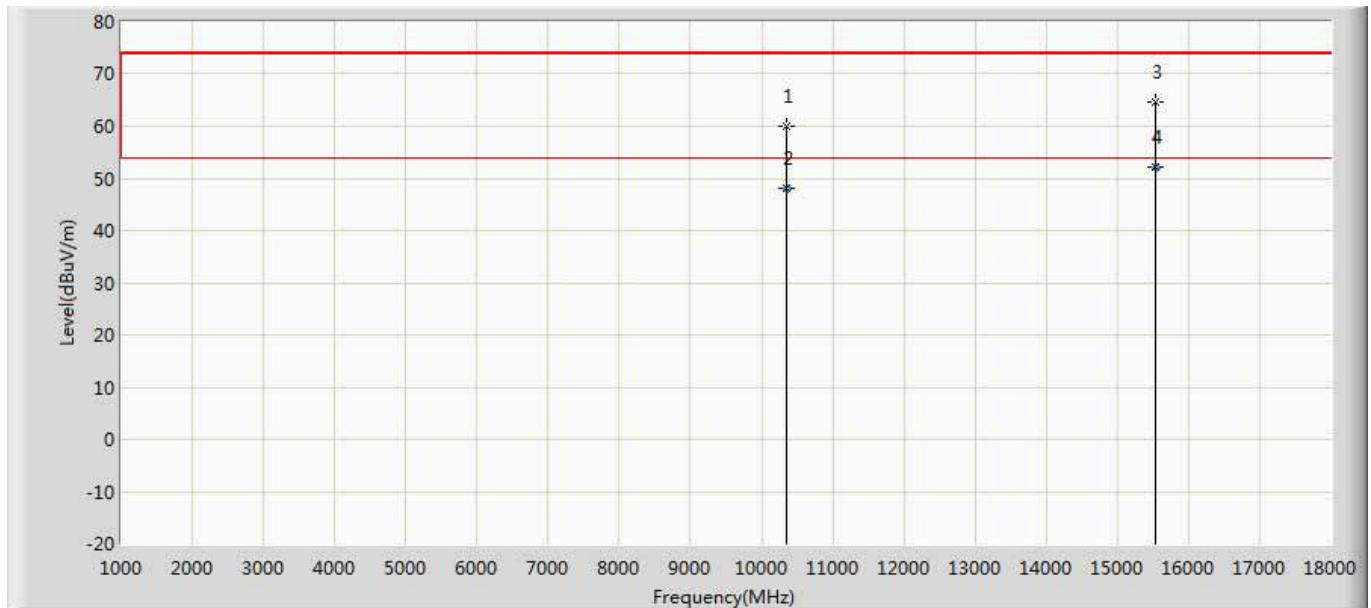
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10477.470	41.795	30.070	-12.205	54.000	11.725	AV
2		10477.500	54.912	43.187	-19.088	74.000	11.724	PK
3		15722.000	68.301	49.952	-5.699	74.000	18.349	PK
4	*	15722.050	53.888	35.540	-0.112	54.000	18.348	AV

Profile: 1752112R	Page No.: 299
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5240MHZ by 802.11a	



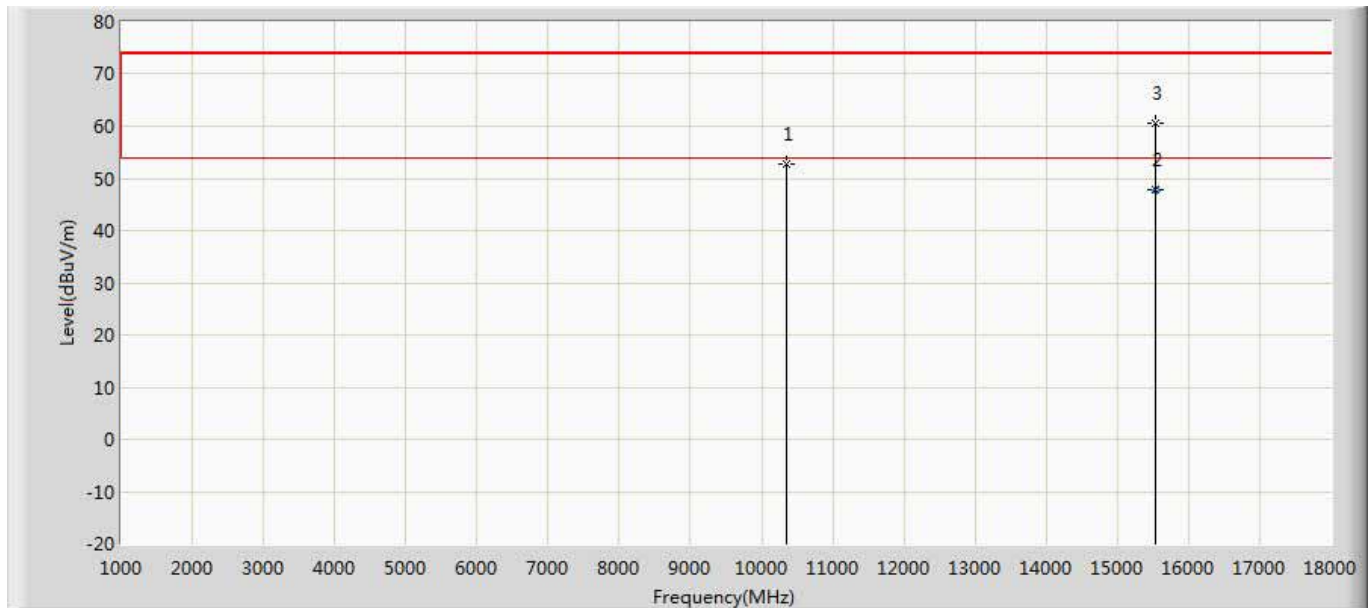
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10486.000	50.453	38.776	-23.547	74.000	11.677	PK
2		15722.000	60.990	42.641	-13.010	74.000	18.349	PK
3	*	15724.310	50.337	32.040	-3.663	54.000	18.297	AV

Profile: 1752112R	Page No.: 300
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5180MHZ by 802.11n20	



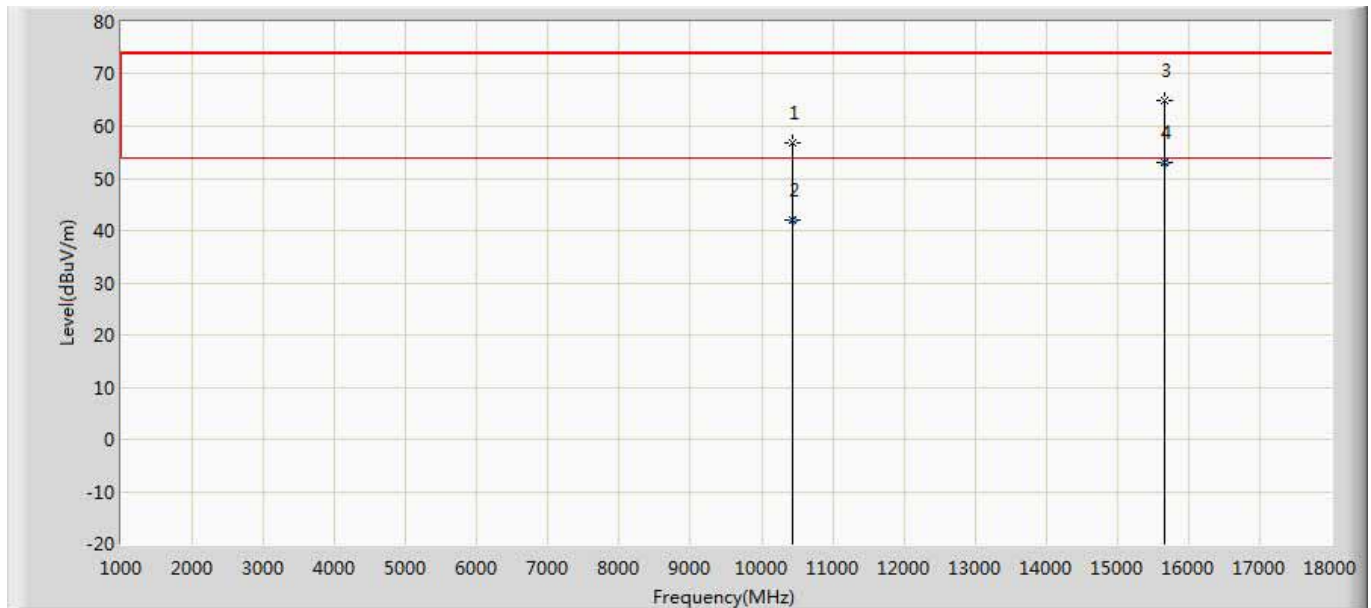
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10358.500	60.138	48.334	-13.862	74.000	11.804	PK
2		10359.550	48.091	36.290	-5.909	54.000	11.802	AV
3		15535.000	64.590	46.936	-9.410	74.000	17.654	PK
4	*	15537.500	52.257	34.620	-1.743	54.000	17.637	AV

Profile: 1752112R	Page No.: 301
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5180MHZ by 802.11n20	



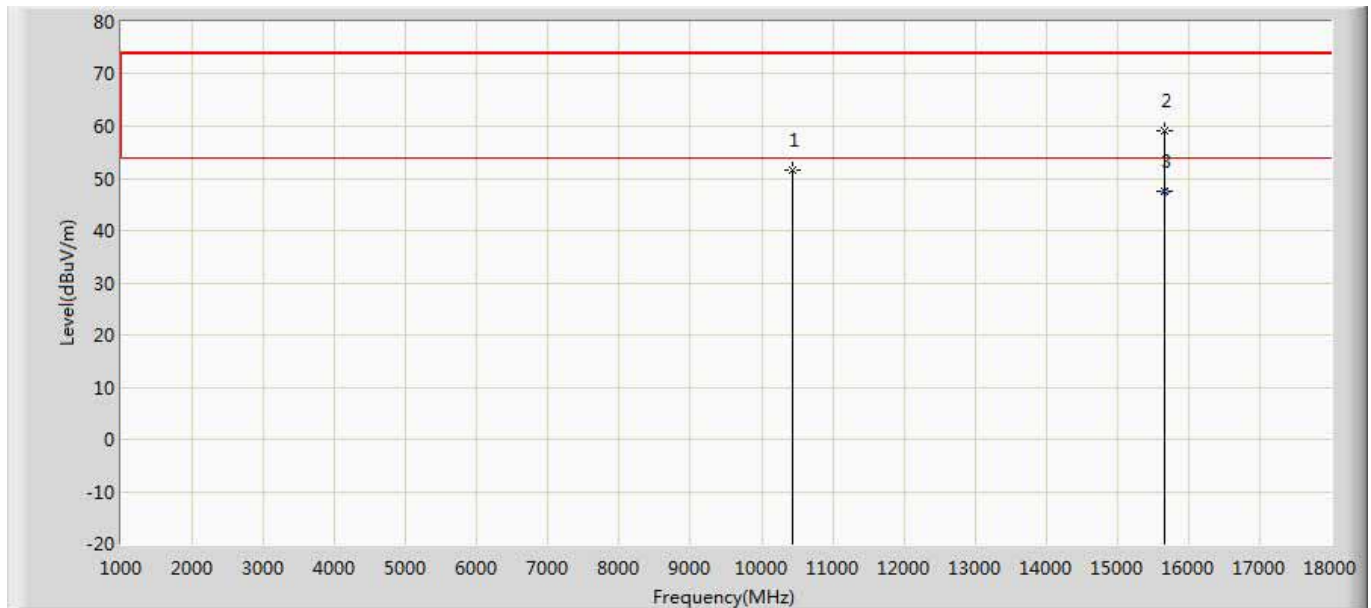
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10358.500	52.674	40.870	-21.326	74.000	11.804	PK
2	*	15534.200	47.833	30.170	-6.167	54.000	17.662	AV
3		15535.000	60.566	42.912	-13.434	74.000	17.654	PK

Profile: 1752112R	Page No.: 277
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5220MHZ by 802.11n20	



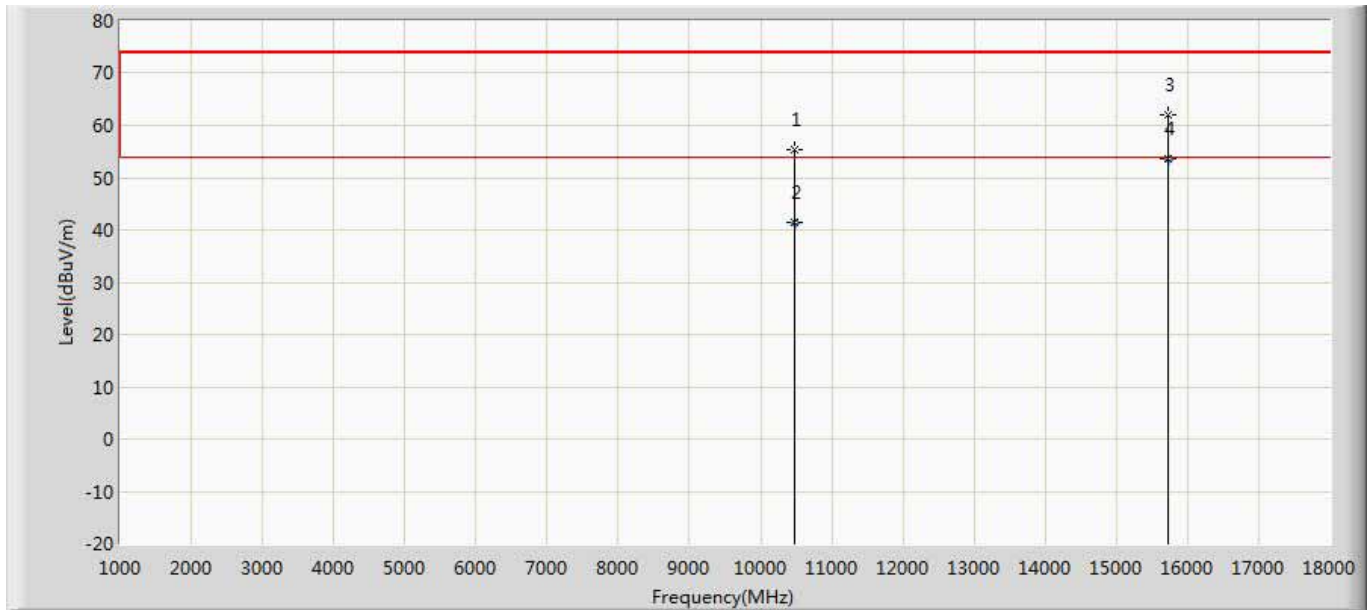
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10443.500	56.899	44.997	-17.101	74.000	11.903	PK
2		10443.500	42.012	30.110	-11.988	54.000	11.903	AV
3		15654.000	65.014	46.757	-8.986	74.000	18.257	PK
4	*	15663.650	53.048	34.970	-0.952	54.000	18.078	AV

Profile: 1752112R	Page No.: 302
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5220MHZ by 802.11n20	



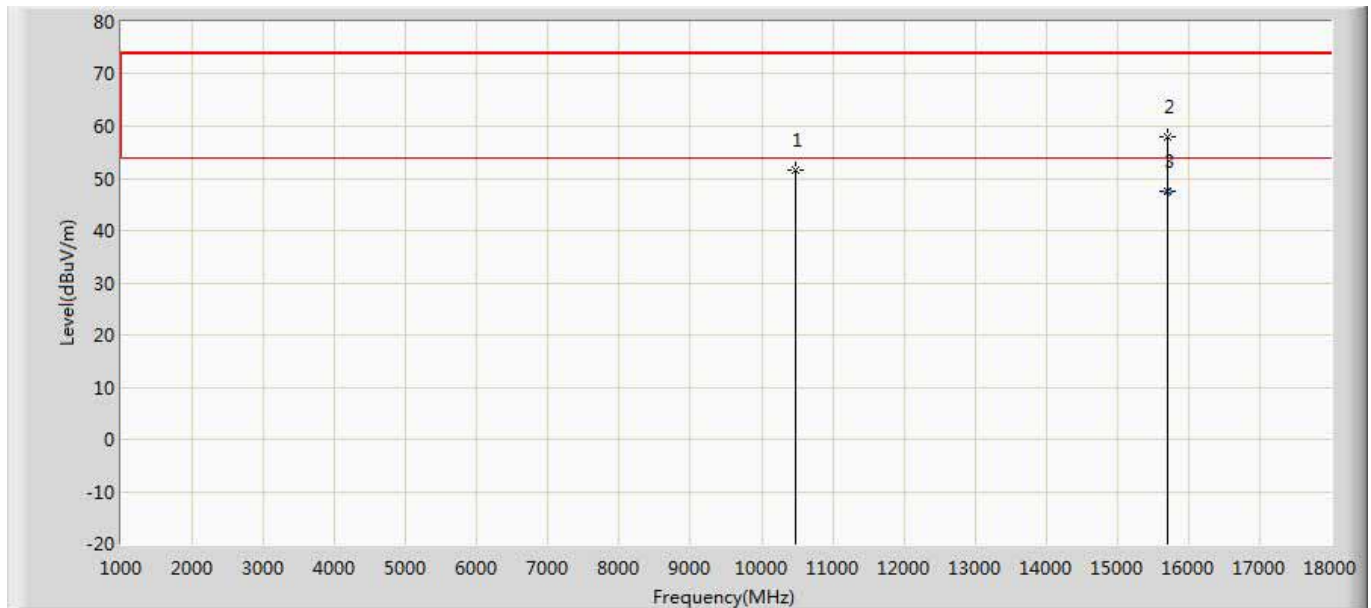
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10443.500	51.584	39.682	-22.416	74.000	11.903	PK
2		15662.500	59.032	40.932	-14.968	74.000	18.100	PK
3	*	15664.550	47.572	29.510	-6.428	54.000	18.061	AV

Profile: 1752112R	Page No.: 329
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5240MHZ by 802.11n20	



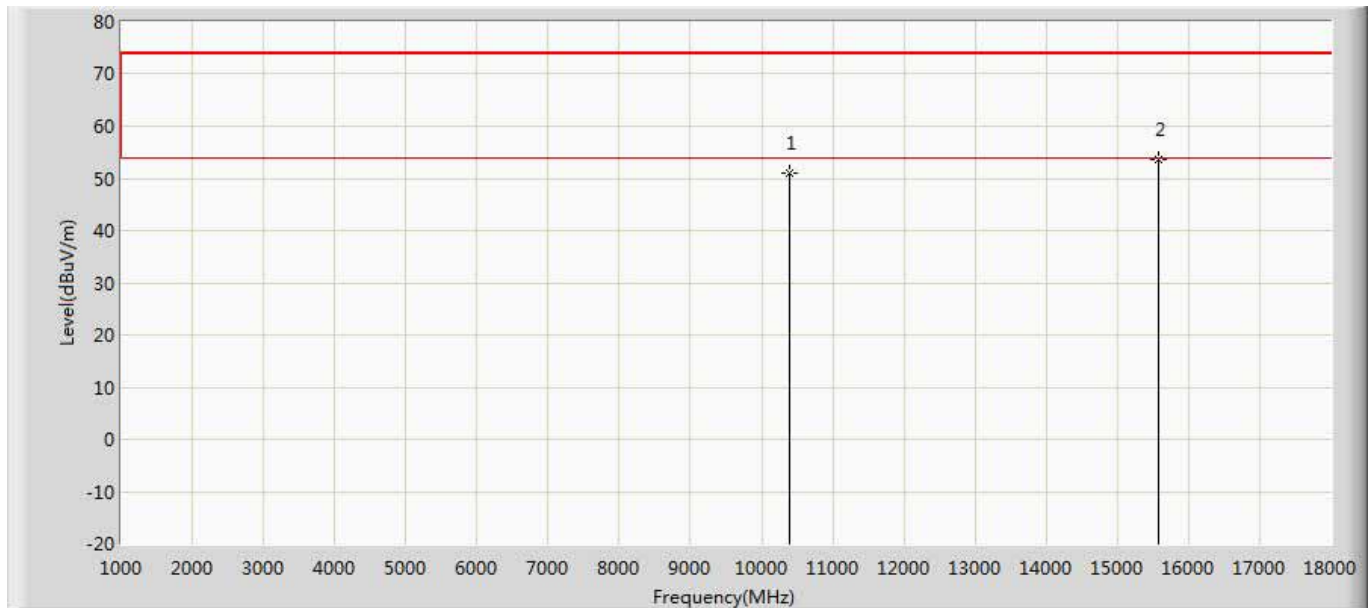
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10486.000	55.356	43.679	-18.644	74.000	11.677	PK
2		10486.400	41.542	29.870	-12.458	54.000	11.672	AV
3		15722.000	61.890	43.541	-12.110	74.000	18.349	PK
4	*	15723.500	53.595	35.280	-0.405	54.000	18.316	AV

Profile: 1752112R	Page No.: 303
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5240MHZ by 802.11n20	



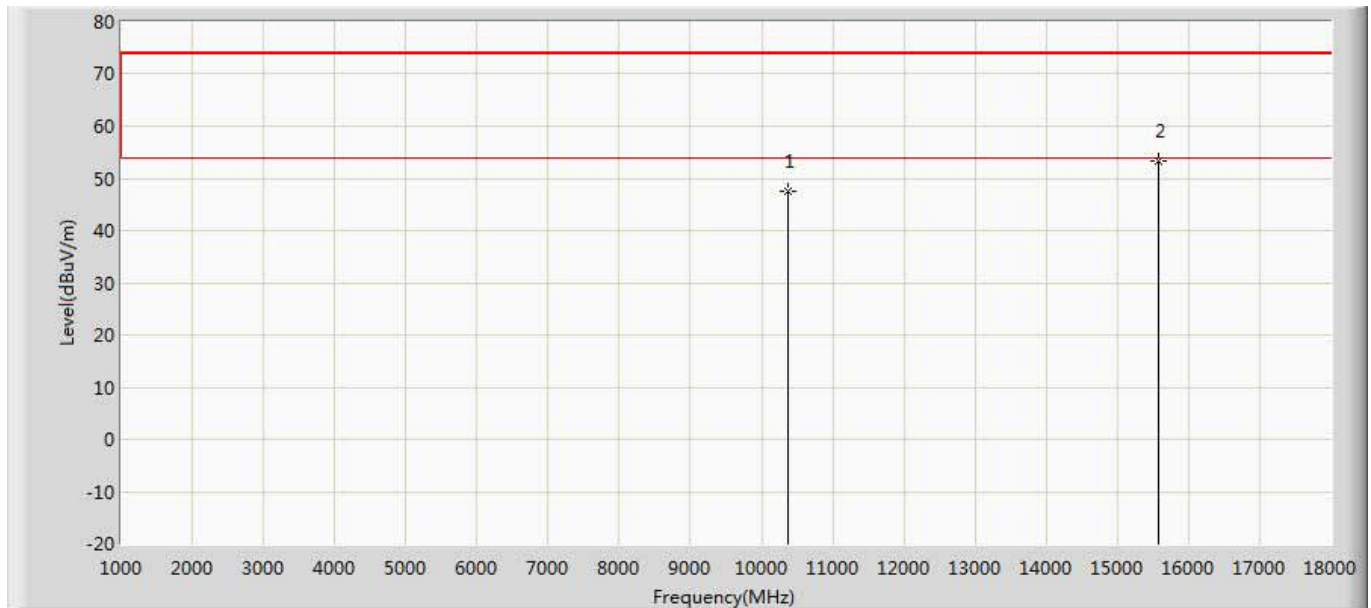
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10486.000	51.718	40.041	-22.282	74.000	11.677	PK
2		15713.500	57.927	39.711	-16.073	74.000	18.217	PK
3	*	15715.240	47.593	29.350	-6.407	54.000	18.243	AV

Profile: 1752112R	Page No.: 308
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5190MHZ by 802.11n40	



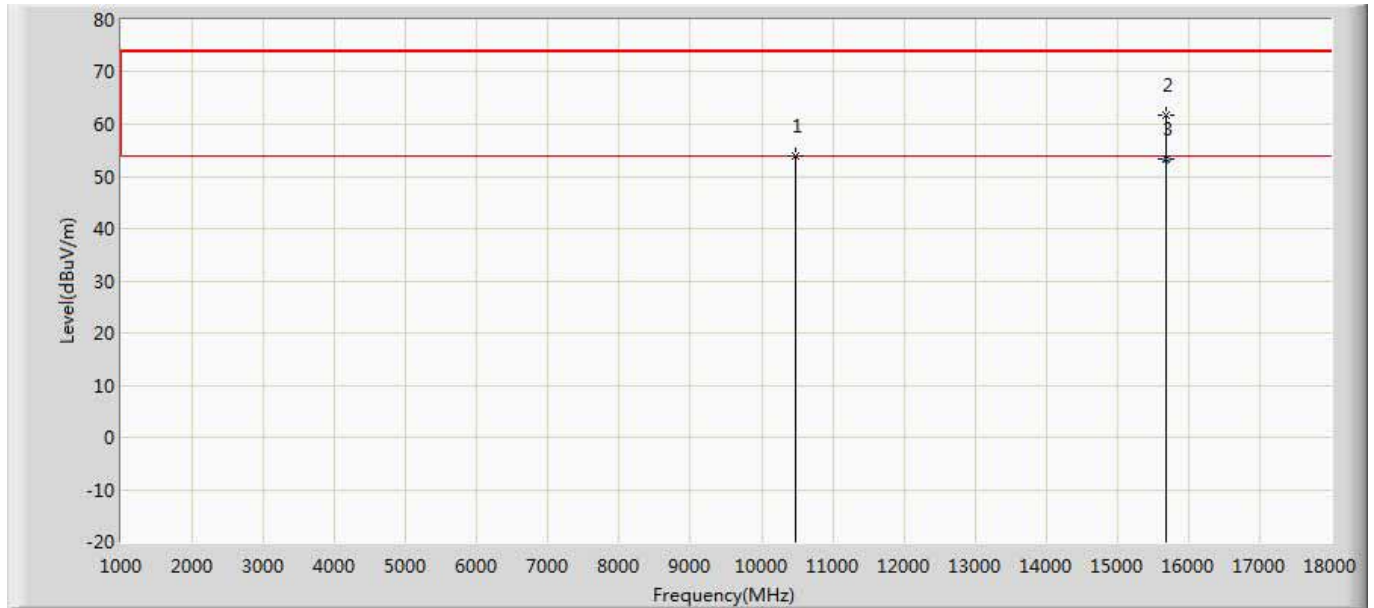
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10384.000	50.974	39.309	-23.026	74.000	11.665	PK
2	*	15570.000	53.630	35.281	-20.370	74.000	18.349	PK

Profile: 1752112R	Page No.: 309
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5190MHZ by 802.11n40	



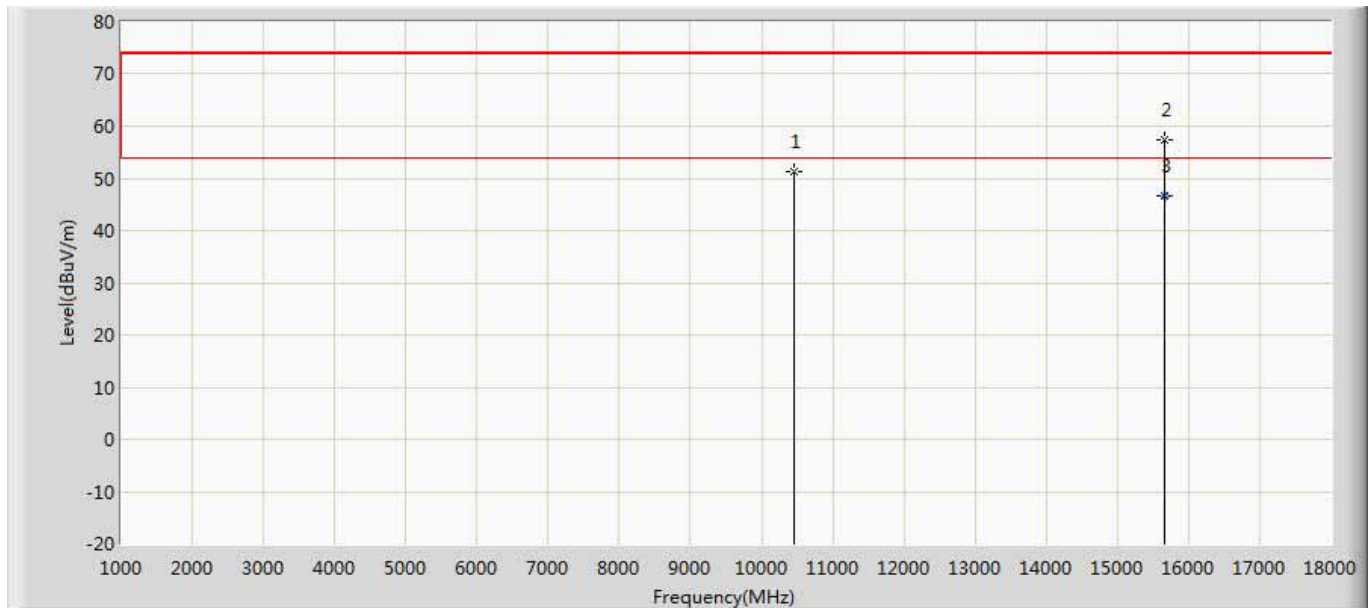
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10380.000	47.448	35.756	-26.552	74.000	11.692	PK
2	*	15570.000	53.301	34.952	-20.699	74.000	18.349	PK

Profile: 1752112R	Page No.: 281
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5230MHZ by 802.11n40	



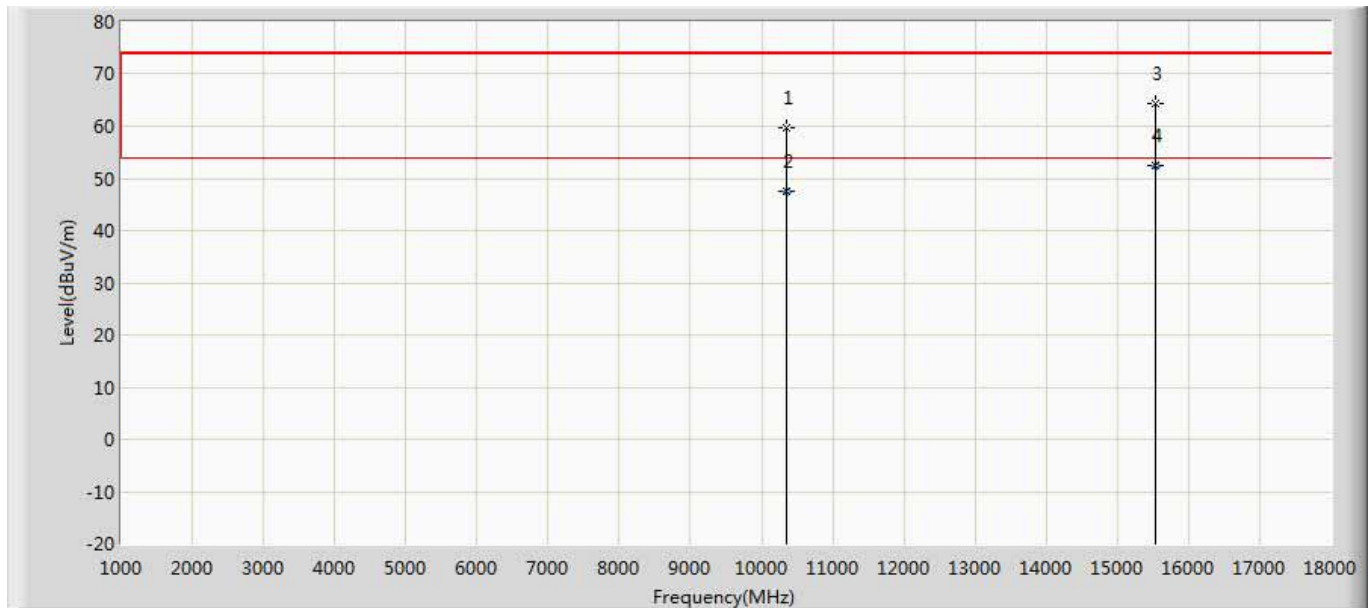
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10469.000	53.854	42.080	-20.146	74.000	11.774	PK
2		15688.000	61.626	43.078	-12.374	74.000	18.548	PK
3	*	15693.800	53.309	34.920	-0.691	54.000	18.389	AV

Profile: 1752112R	Page No.: 312
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5230MHZ by 802.11n40	



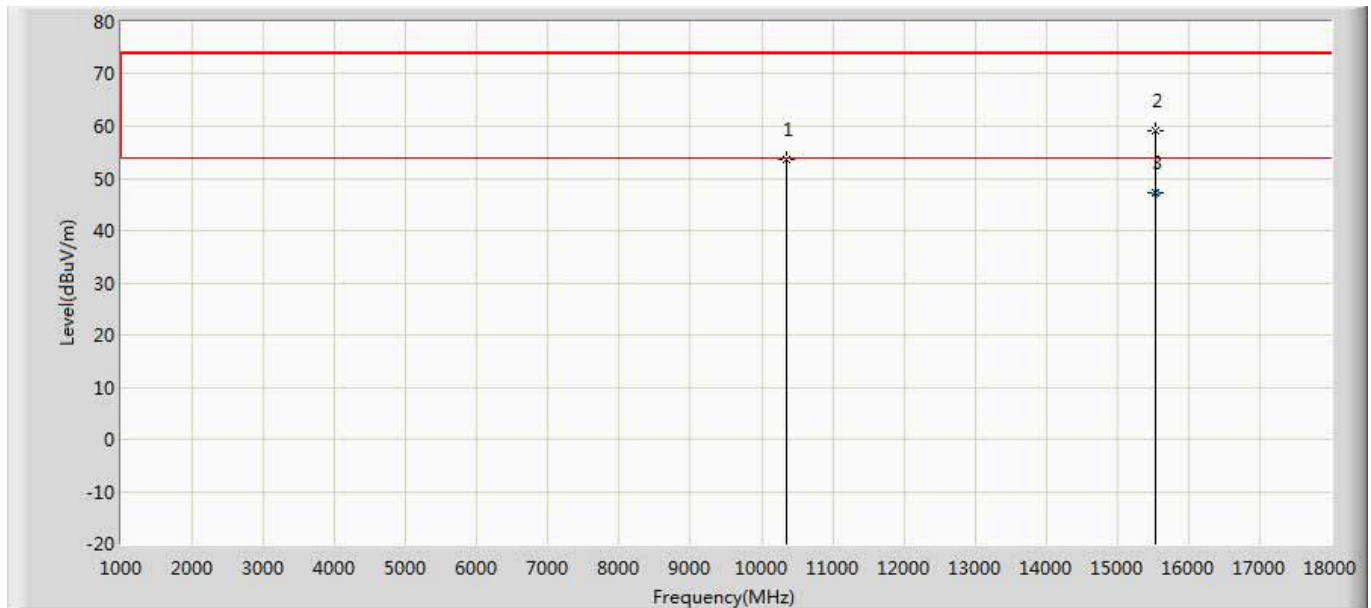
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10460.500	51.421	39.809	-22.579	74.000	11.612	PK
2		15662.500	57.350	39.250	-16.650	74.000	18.100	PK
3	*	15666.700	46.642	28.620	-7.358	54.000	18.022	AV

Profile: 1752112R	Page No.: 304
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5180MHZ by 802.11ac20	



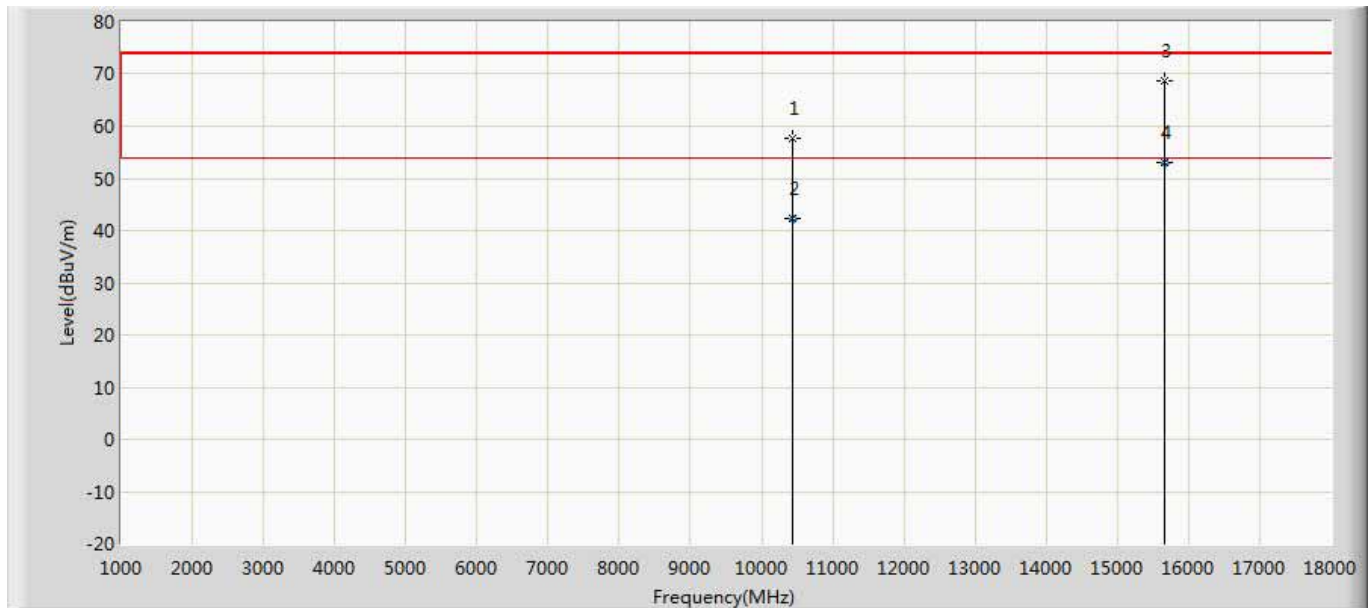
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10358.500	59.576	47.772	-14.424	74.000	11.804	PK
2		10359.600	47.541	35.740	-6.459	54.000	11.801	AV
3		15526.500	64.334	46.582	-9.666	74.000	17.752	PK
4	*	15535.900	52.378	34.730	-1.622	54.000	17.648	AV

Profile: 1752112R	Page No.: 305
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5180MHZ by 802.11ac20	



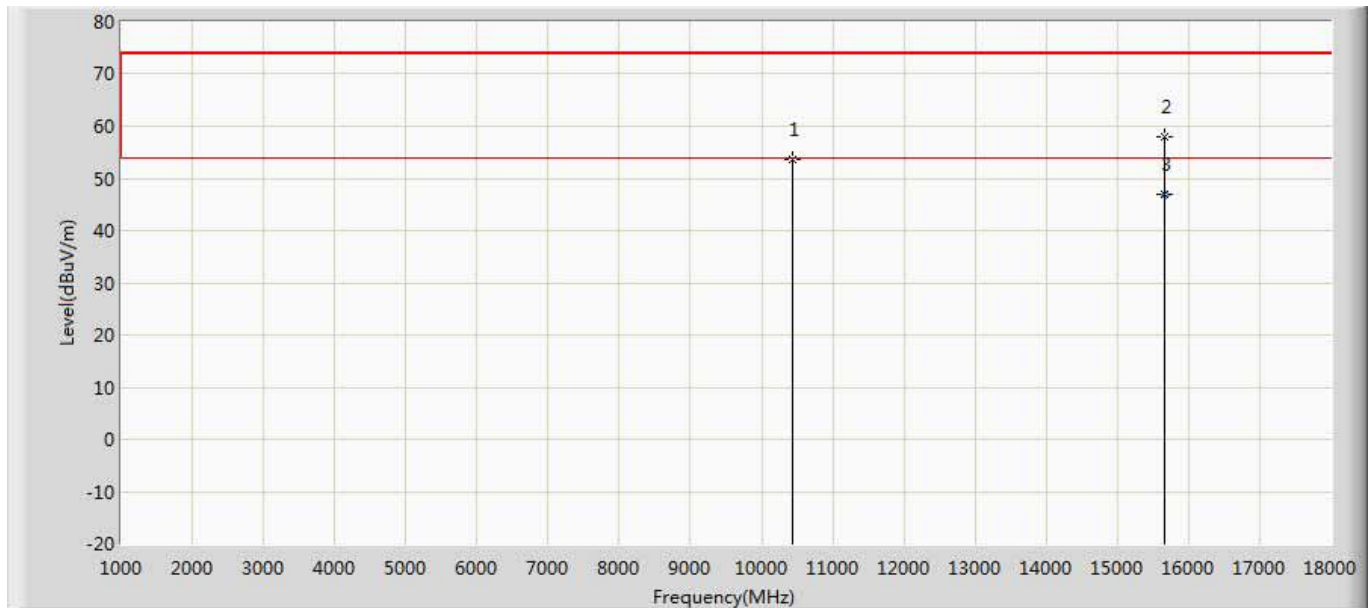
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10358.500	53.687	41.883	-20.313	74.000	11.804	PK
2		15535.000	59.031	41.377	-14.969	74.000	17.654	PK
3	*	15536.130	47.226	29.580	-6.774	54.000	17.646	AV

Profile: 1752112R	Page No.: 279
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5220MHZ by 802.11ac20	



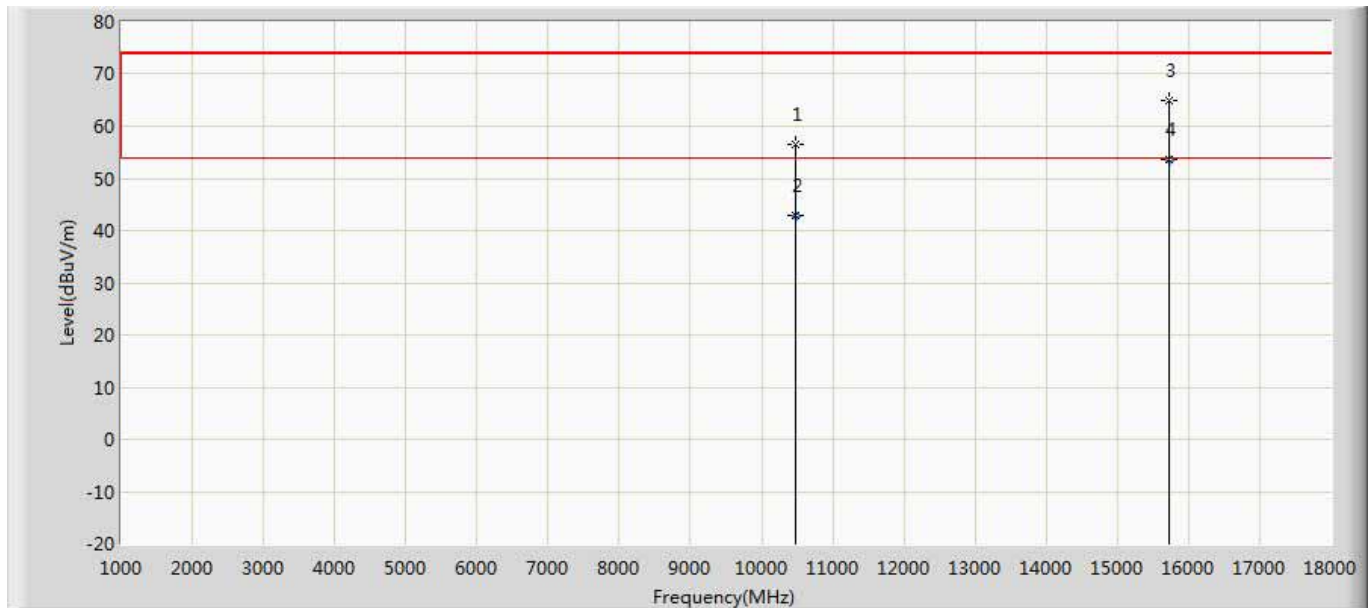
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10435.000	57.659	45.306	-16.341	74.000	12.353	PK
2		10435.320	42.366	30.030	-11.634	54.000	12.336	AV
3		15662.500	68.701	50.601	-5.299	74.000	18.100	PK
4	*	15662.750	53.045	34.950	-0.955	54.000	18.095	AV

Profile: 1752112R	Page No.: 306
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5220MHZ by 802.11ac20	



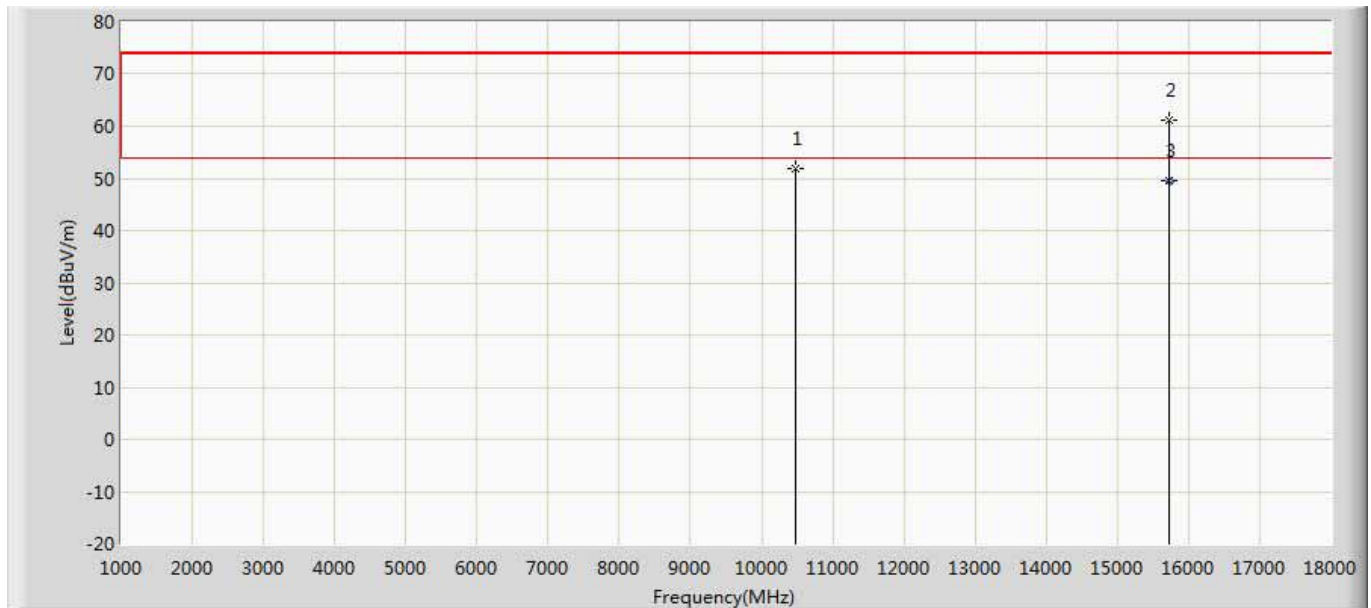
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10435.000	53.562	41.209	-20.438	74.000	12.353	PK
2		15662.500	57.978	39.878	-16.022	74.000	18.100	PK
3	*	15662.700	46.966	28.870	-7.034	54.000	18.096	AV

Profile: 1752112R	Page No.: 280
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5240MHZ by 802.11ac20	



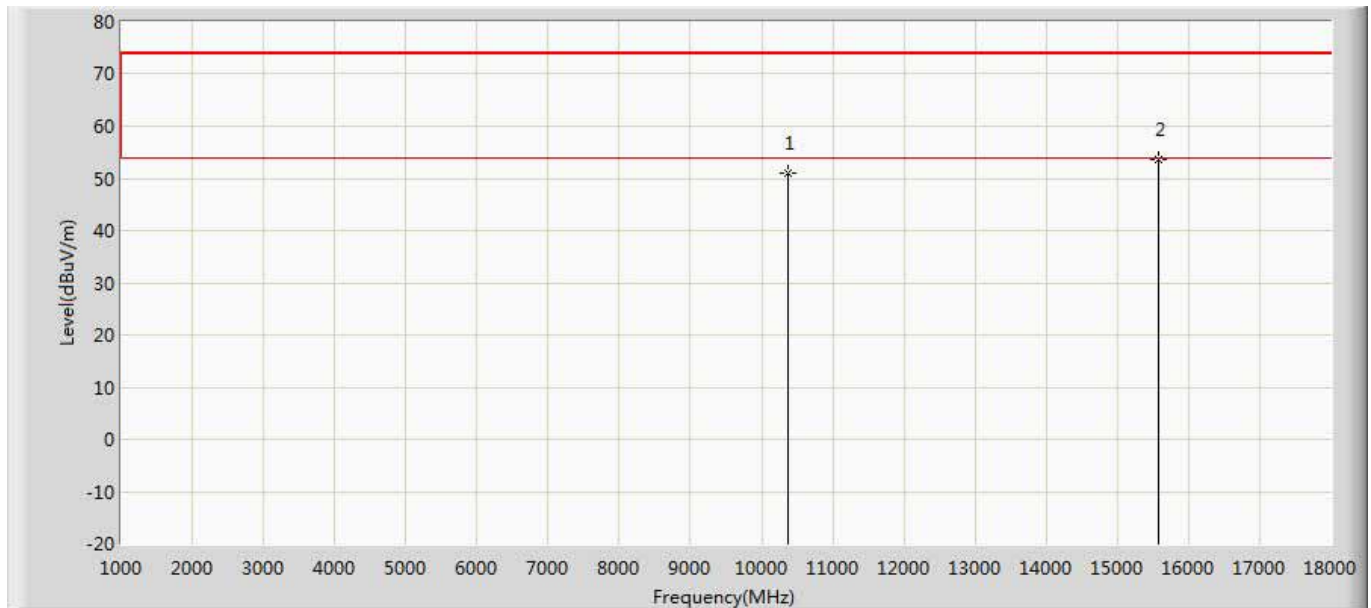
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10469.000	56.513	44.739	-17.487	74.000	11.774	PK
2		10469.570	42.990	31.220	-11.010	54.000	11.771	AV
3		15722.000	64.982	46.633	-9.018	74.000	18.349	PK
4	*	15724.000	53.744	35.440	-0.256	54.000	18.303	AV

Profile: 1752112R	Page No.: 307
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5240MHZ by 802.11ac20	



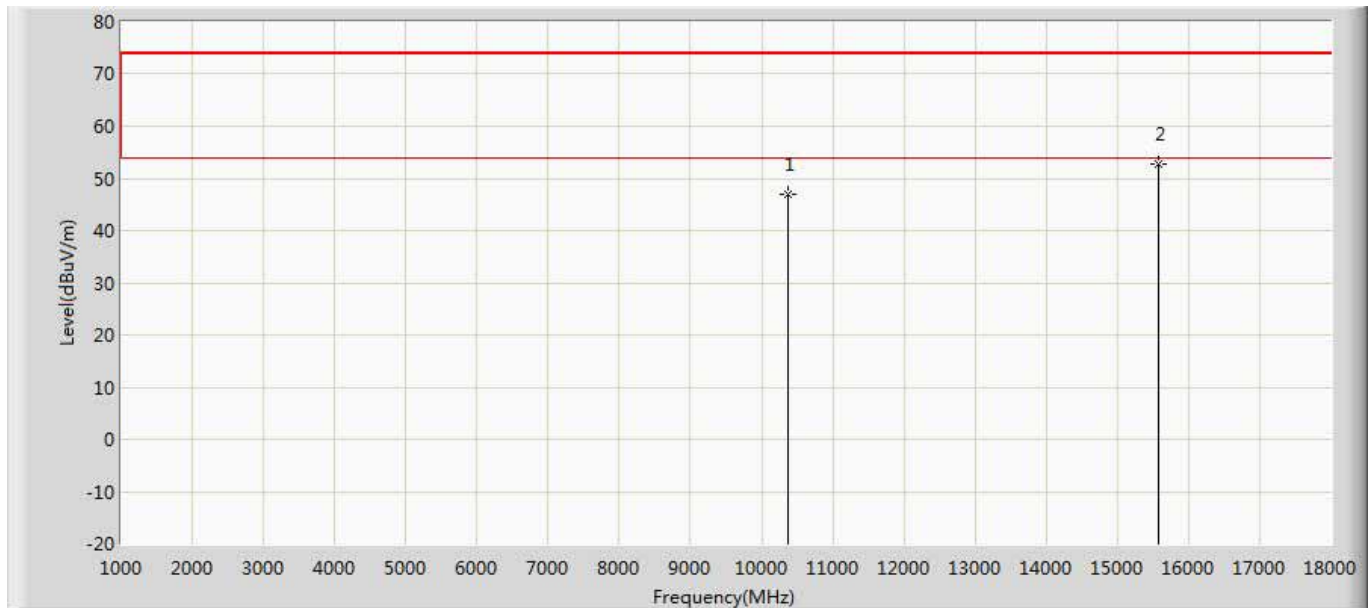
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10469.000	51.775	40.001	-22.225	74.000	11.774	PK
2		15722.000	61.171	42.822	-12.829	74.000	18.349	PK
3	*	15724.330	49.557	31.260	-4.443	54.000	18.296	AV

Profile: 1752112R	Page No.: 310
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5190MHZ by 802.11ac40	



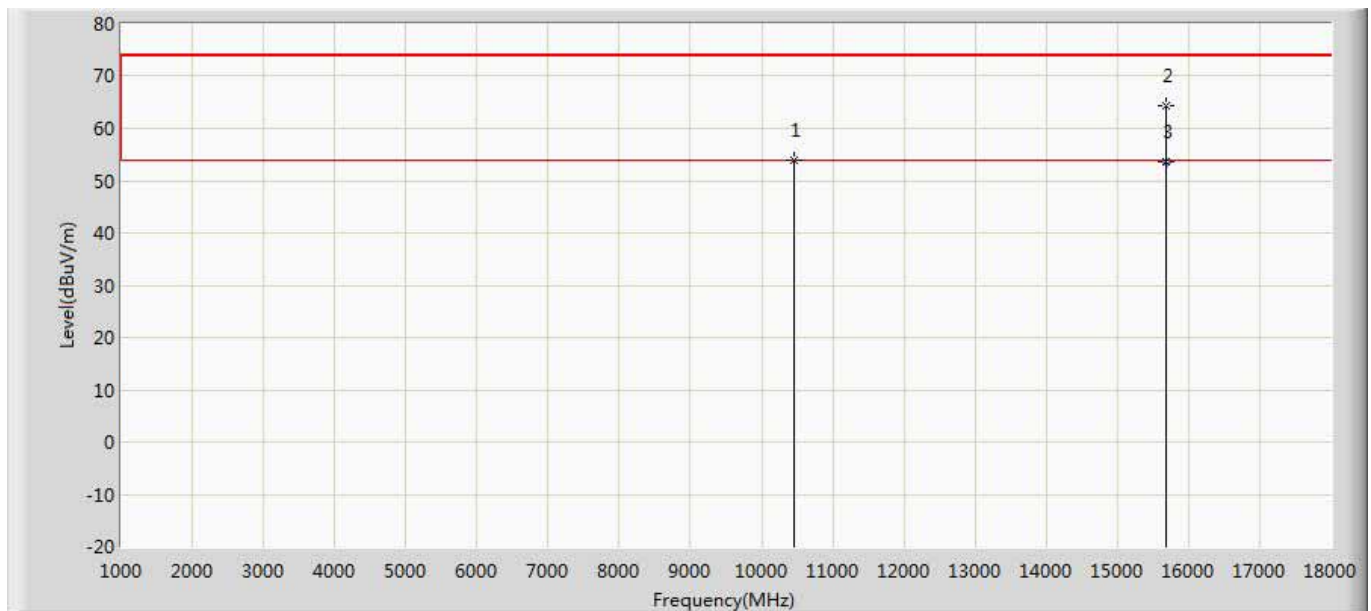
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10375.500	51.100	39.378	-22.900	74.000	11.722	PK
2	*	15570.000	53.650	35.301	-20.350	74.000	18.349	PK

Profile: 1752112R	Page No.: 311
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5190MHZ by 802.11ac40	



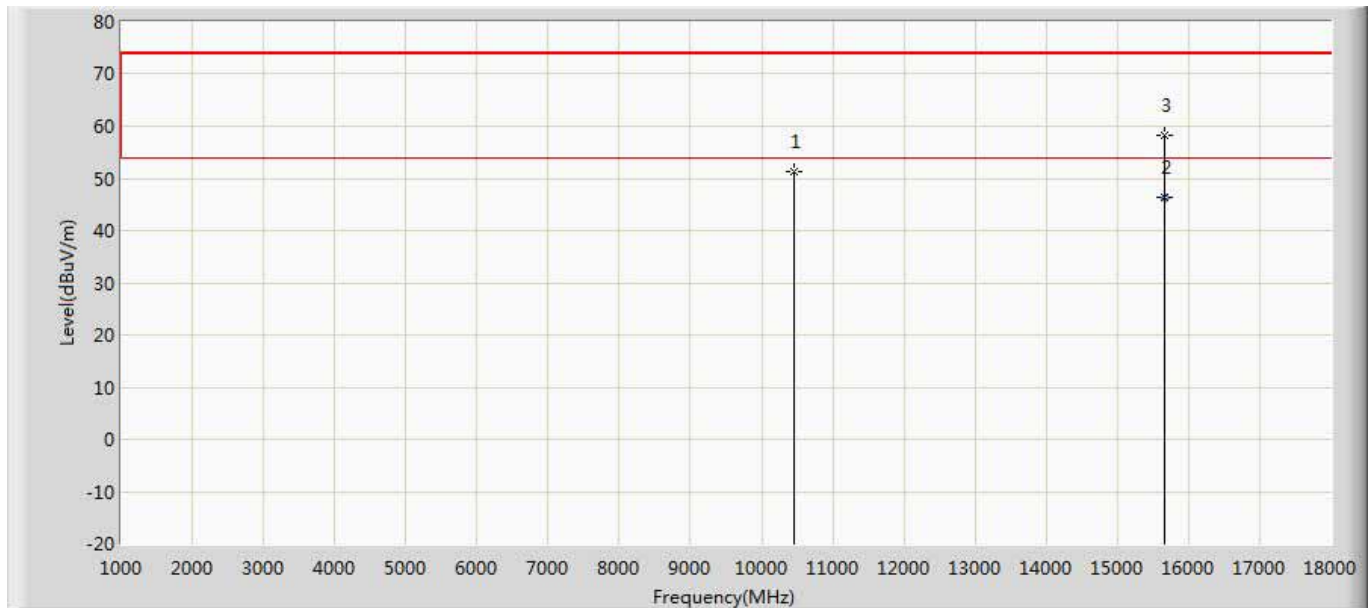
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10380.000	46.985	35.293	-27.015	74.000	11.692	PK
2	*	15570.000	52.676	34.327	-21.324	74.000	18.349	PK

Profile: 1752112R	Page No.: 282
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5230MHZ by 802.11ac40	



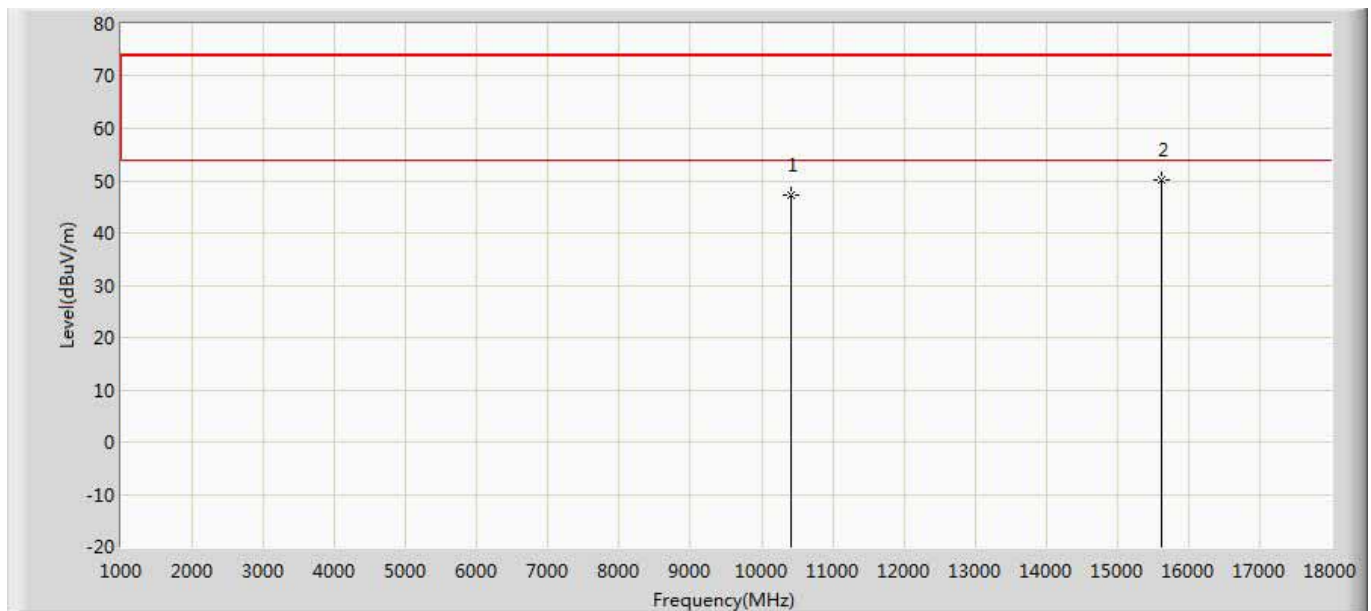
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10460.500	53.894	42.282	-20.106	74.000	11.612	PK
2		15688.000	64.384	45.836	-9.616	74.000	18.548	PK
3	*	15693.950	53.755	35.370	-0.245	54.000	18.385	AV

Profile: 1752112R	Page No.: 313
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5230MHZ by 802.11ac40	



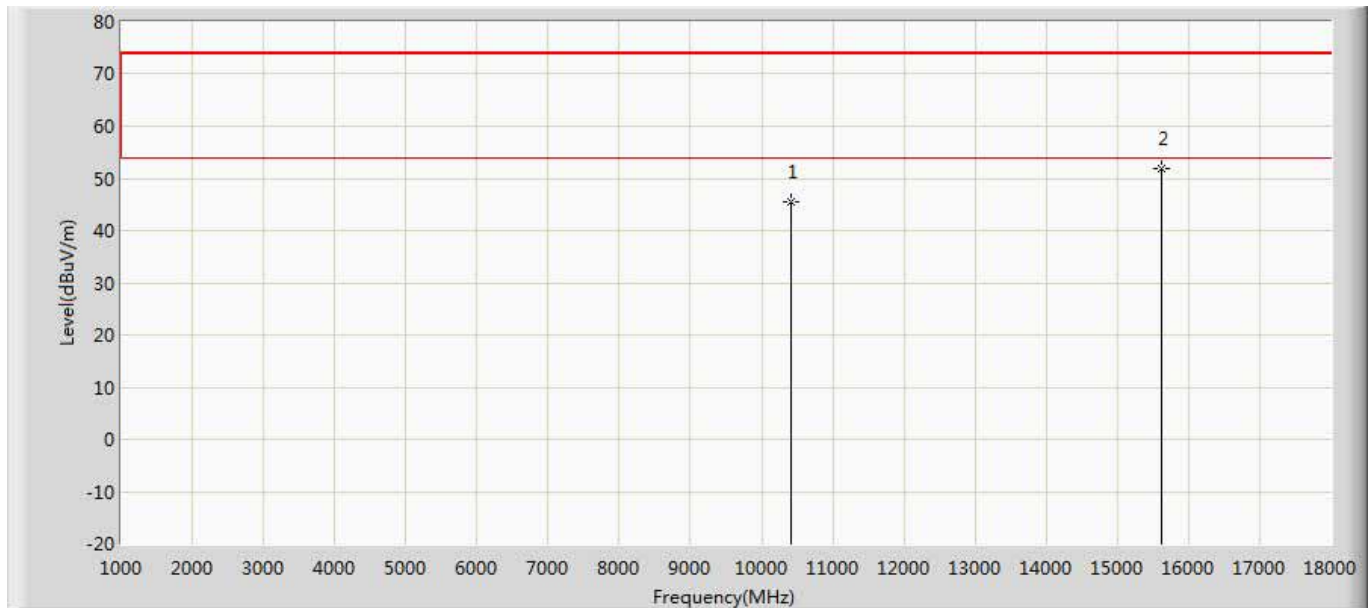
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10460.500	51.266	39.654	-22.734	74.000	11.612	PK
2	*	15670.250	46.297	28.340	-7.703	54.000	17.956	AV
3		15671.000	58.368	40.425	-15.632	74.000	17.943	PK

Profile: 1752112R	Page No.: 327
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 6:Transmit at 5210MHZ by 802.11ac80	



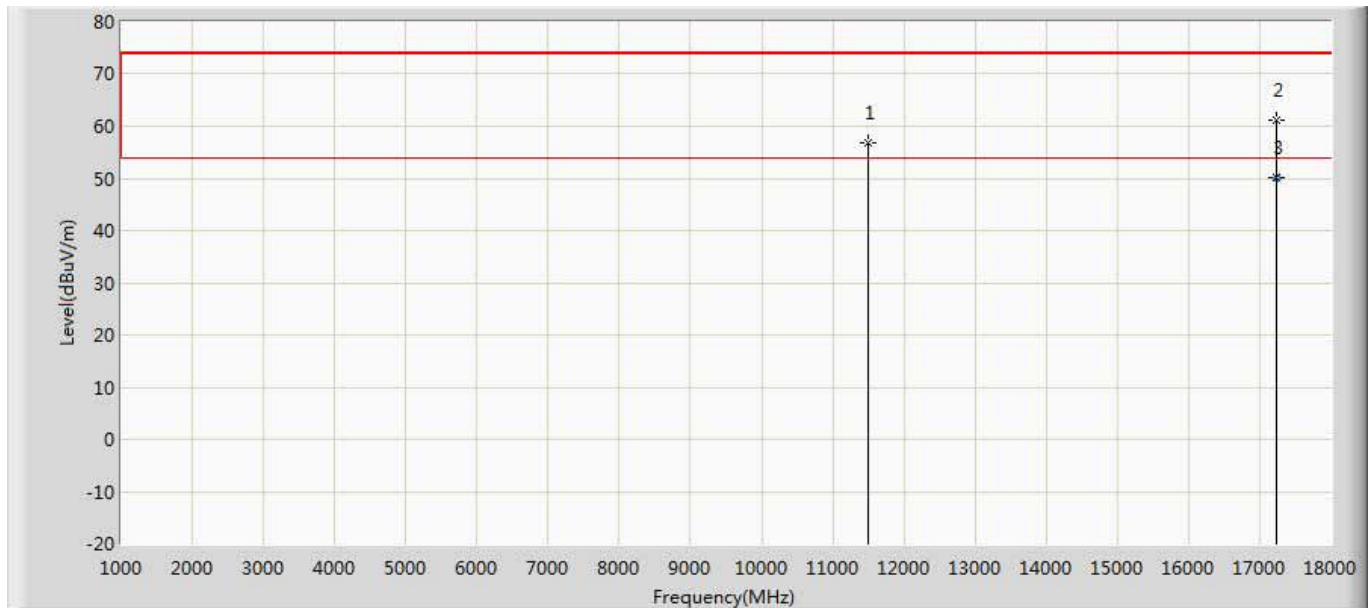
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10420.000	47.147	35.798	-26.853	74.000	11.350	PK
2	*	15630.000	50.259	31.964	-23.741	74.000	18.295	PK

Profile: 1752112R	Page No.: 328
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 6:Transmit at 5210MHZ by 802.11ac80	



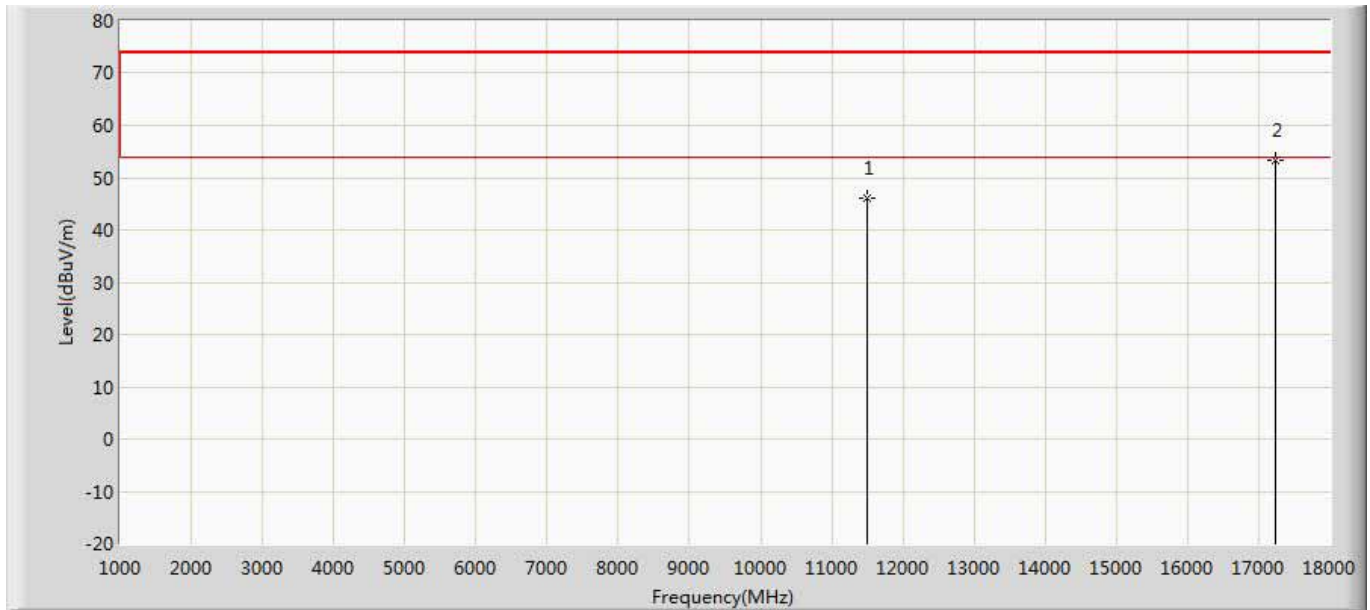
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10420.000	45.428	34.079	-28.572	74.000	11.350	PK
2	*	15630.000	51.813	33.518	-22.187	74.000	18.295	PK

Profile: 1752112R	Page No.: 283
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5745MHZ by 802.11a	



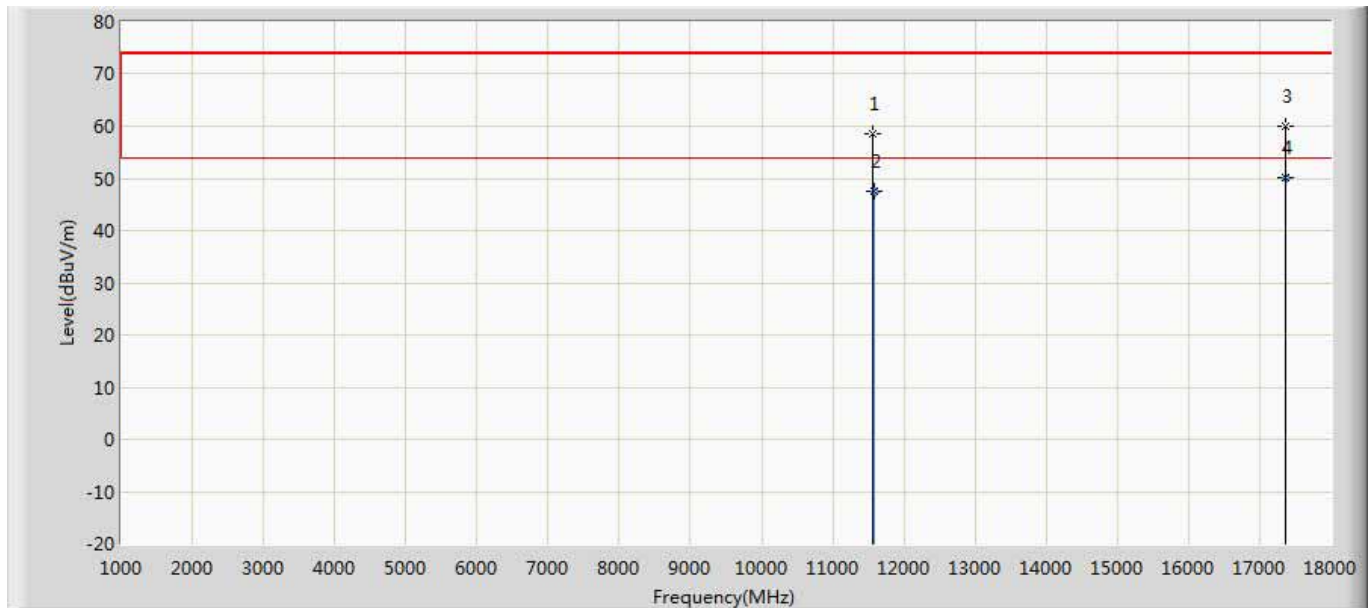
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11489.000	56.871	43.727	-17.129	74.000	13.144	PK
2		17235.000	61.117	41.146	-12.883	74.000	19.971	PK
3	*	17236.750	50.205	30.240	-3.795	54.000	19.965	AV

Profile: 1752112R	Page No.: 314
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5745MHZ by 802.11a	



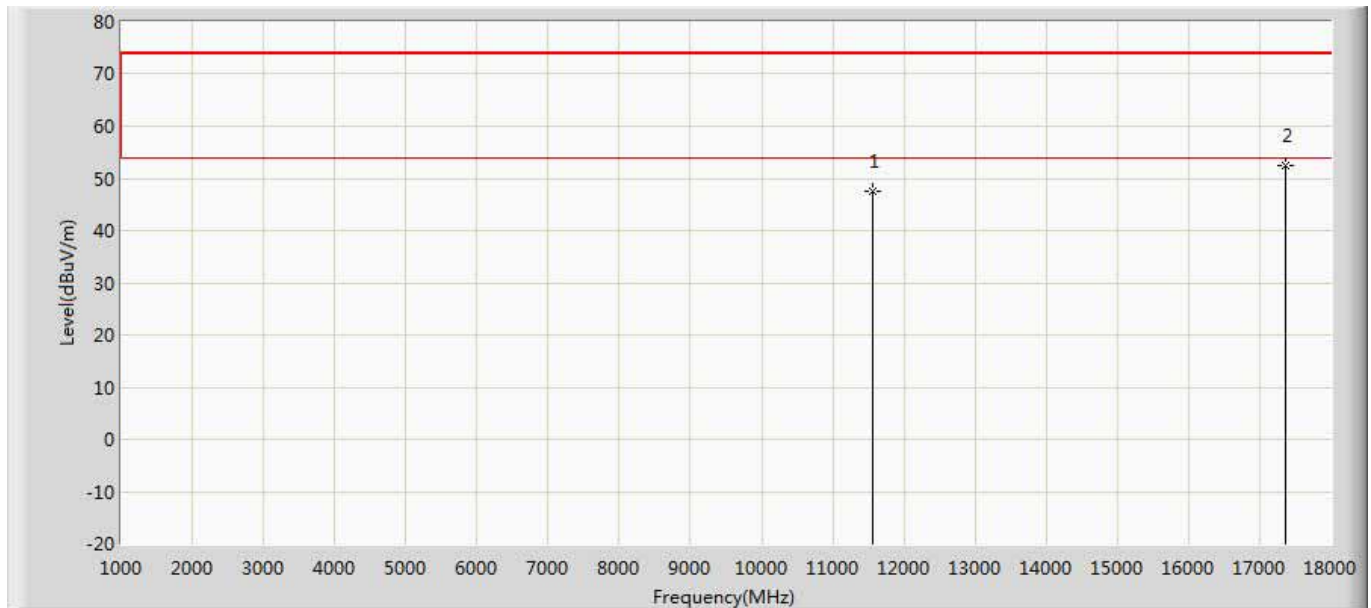
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11490.000	46.135	32.943	-27.865	74.000	13.192	PK
2	*	17235.000	53.358	33.387	-20.642	74.000	19.971	PK

Profile: 1752112R	Page No.: 284
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5785MHZ by 802.11a	



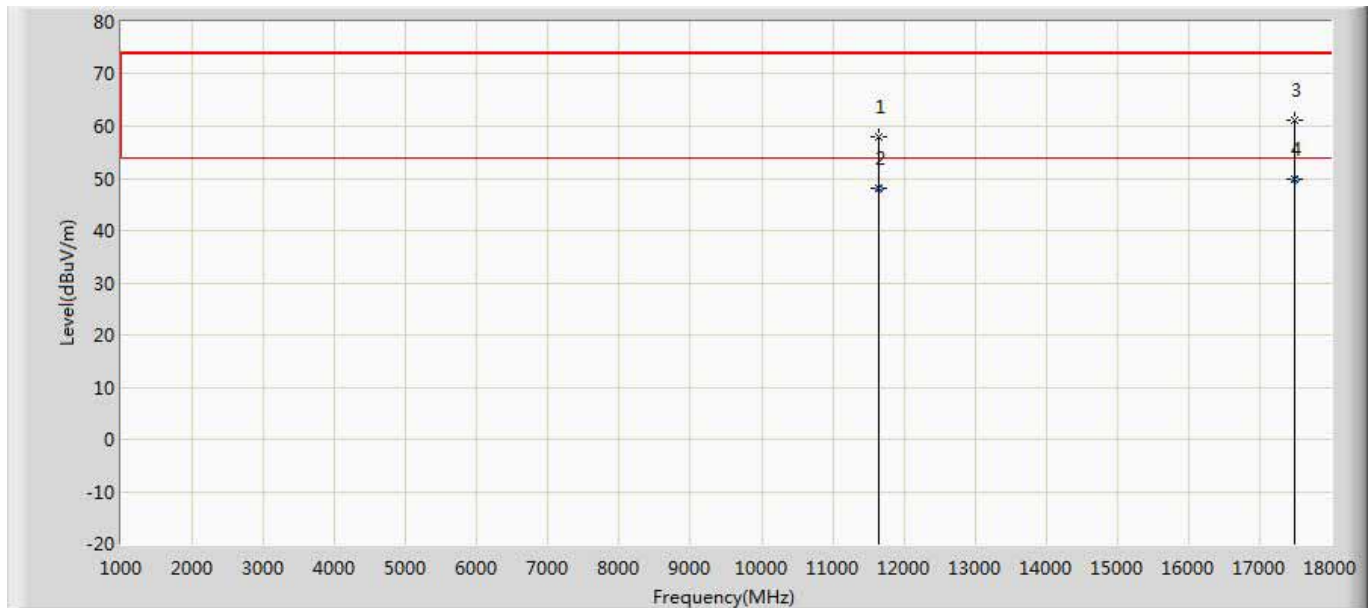
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11565.500	58.614	45.030	-15.386	74.000	13.584	PK
2		11572.200	47.576	34.060	-6.424	54.000	13.516	AV
3		17354.000	59.866	39.930	-14.134	74.000	19.936	PK
4	*	17355.620	50.097	30.210	-3.903	54.000	19.887	AV

Profile: 1752112R	Page No.: 315
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5785MHZ by 802.11a	



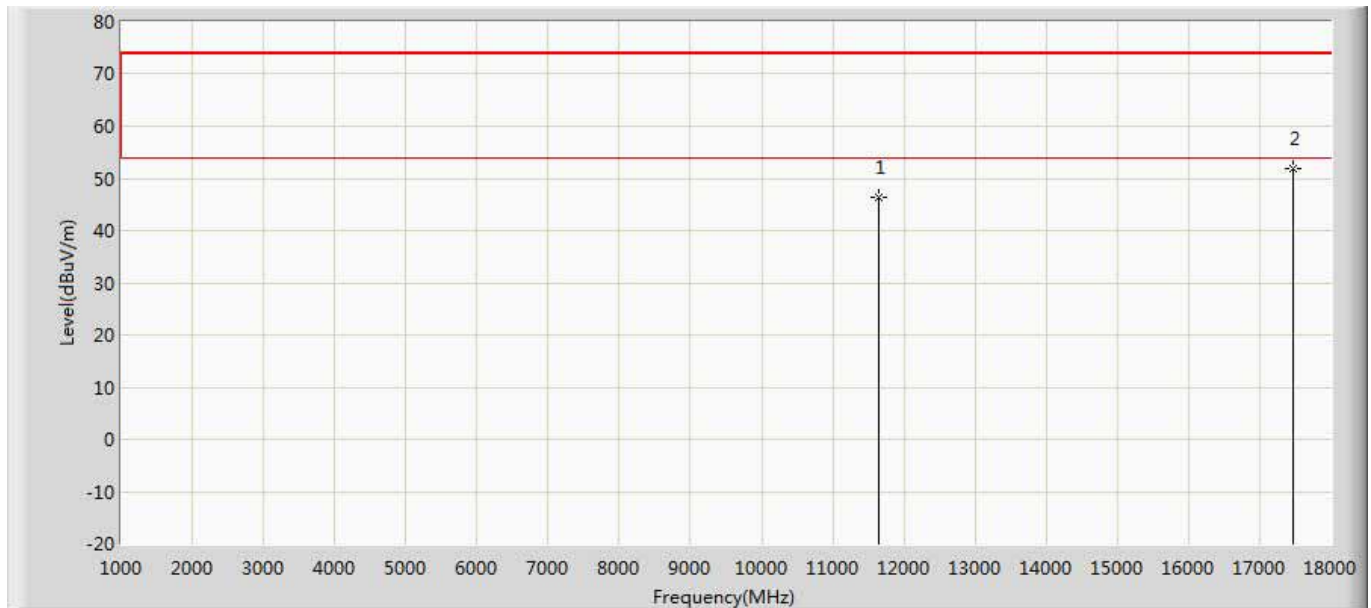
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11570.000	47.437	33.899	-26.563	74.000	13.539	PK
2	*	17355.000	52.470	32.564	-21.530	74.000	19.906	PK

Profile: 1752112R	Page No.: 285
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5825MHZ by 802.11a	



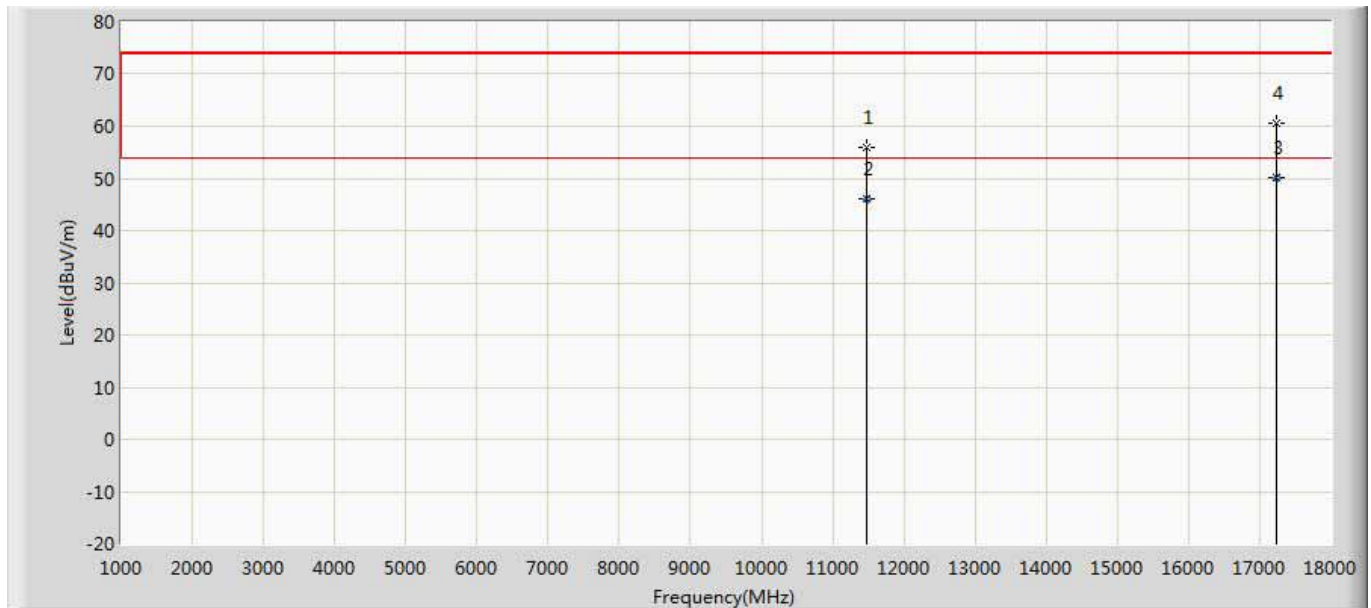
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11642.000	57.864	43.802	-16.136	74.000	14.062	PK
2		11650.550	47.982	34.110	-6.018	54.000	13.873	AV
3		17481.500	61.166	41.107	-12.834	74.000	20.059	PK
4	*	17481.500	49.939	29.880	-4.061	54.000	20.059	AV

Profile: 1752112R	Page No.: 316
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5825MHZ by 802.11a	



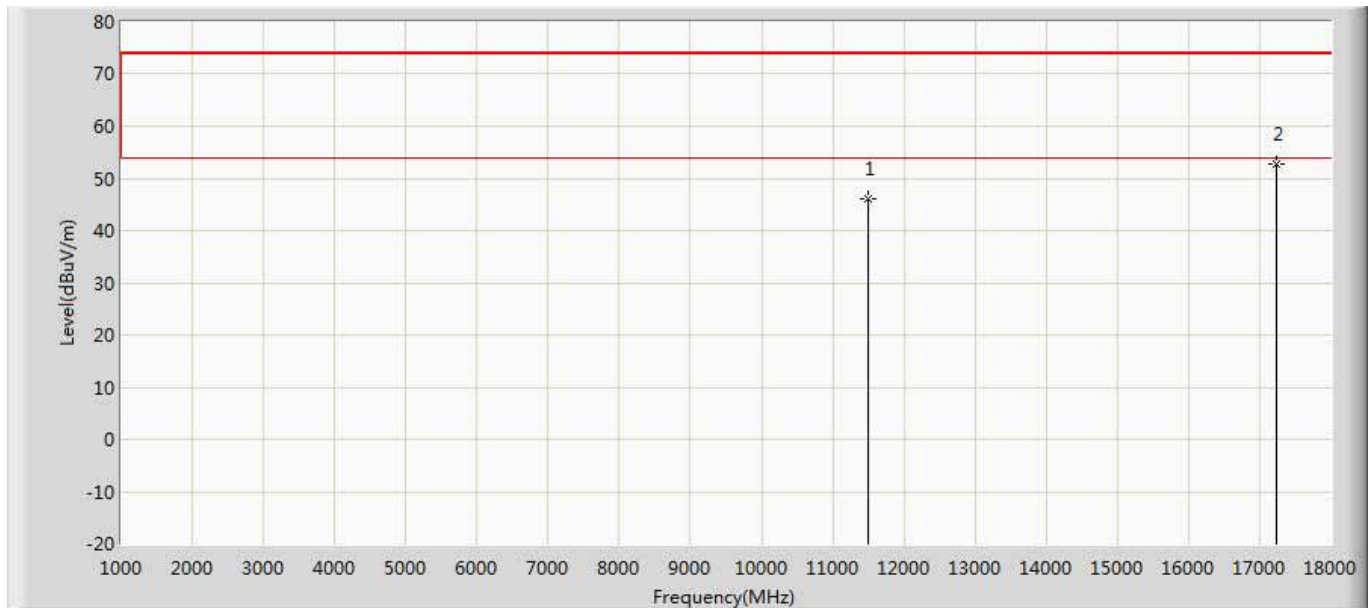
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11650.000	46.480	32.596	-27.520	74.000	13.884	PK
2	*	17475.000	51.910	31.926	-22.090	74.000	19.984	PK

Profile: 1752112R	Page No.: 286
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5745MHZ by 802.11n20	



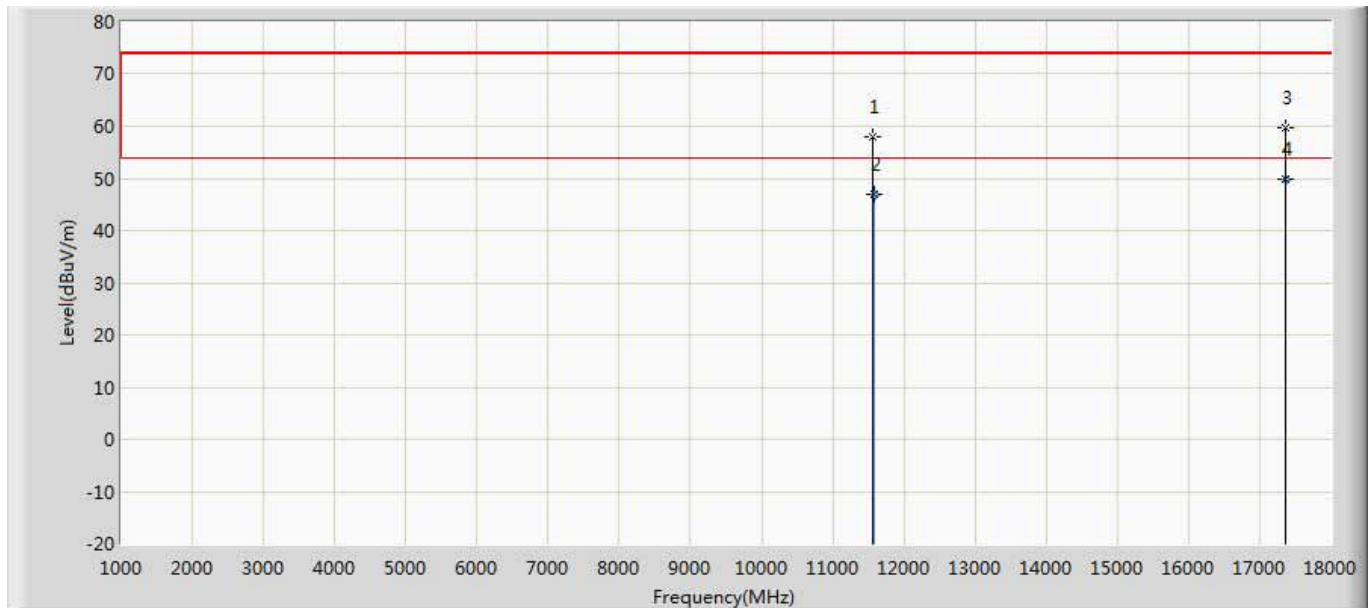
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11480.500	56.083	42.564	-17.917	74.000	13.519	PK
2		11486.200	45.957	32.690	-8.043	54.000	13.267	AV
3	*	17225.870	50.163	30.120	-3.837	54.000	20.043	AV
4		17226.500	60.649	40.611	-13.351	74.000	20.039	PK

Profile: 1752112R	Page No.: 317
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5745MHZ by 802.11n20	



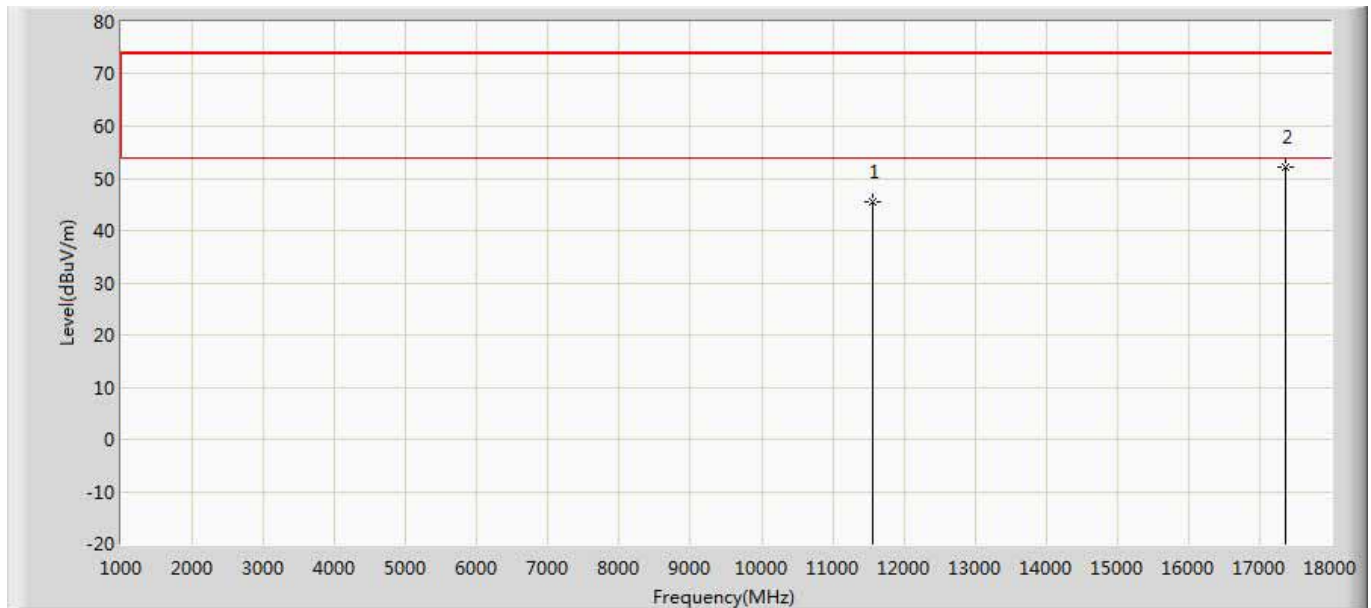
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11490.000	46.171	32.979	-27.829	74.000	13.192	PK
2	*	17235.000	52.895	32.924	-21.105	74.000	19.971	PK

Profile: 1752112R	Page No.: 287
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5785MHZ by 802.11n20	



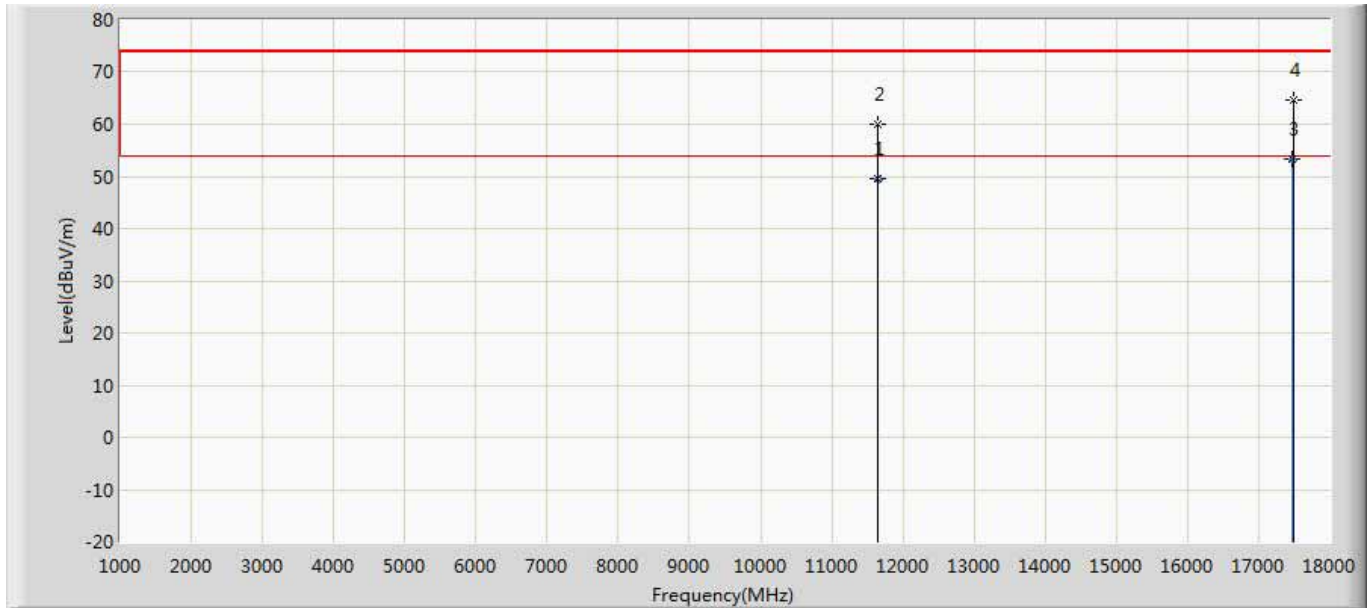
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11565.500	57.961	44.377	-16.039	74.000	13.584	PK
2		11571.950	46.928	33.410	-7.072	54.000	13.519	AV
3		17354.000	59.793	39.857	-14.207	74.000	19.936	PK
4	*	17354.740	49.954	30.040	-4.046	54.000	19.913	AV

Profile: 1752112R	Page No.: 318
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5785MHZ by 802.11n20	



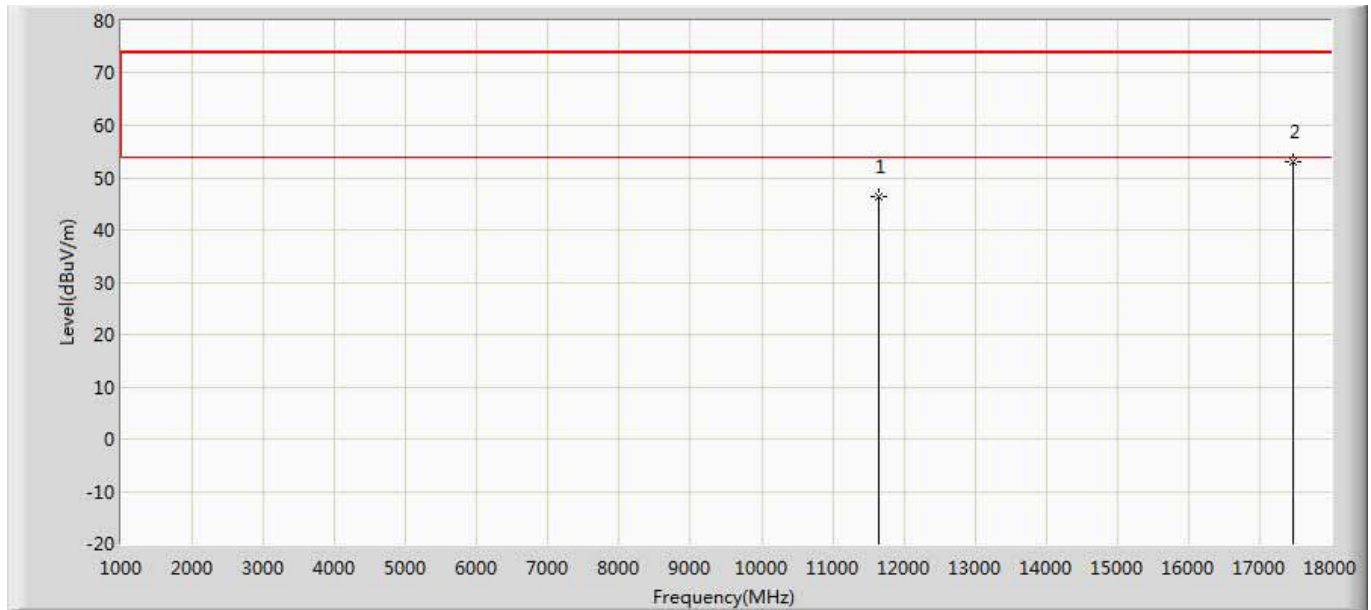
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11570.000	45.396	31.858	-28.604	74.000	13.539	PK
2	*	17355.000	52.107	32.201	-21.893	74.000	19.906	PK

Profile: 1752112R	Page No.: 288
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5825MHZ by 802.11n20	



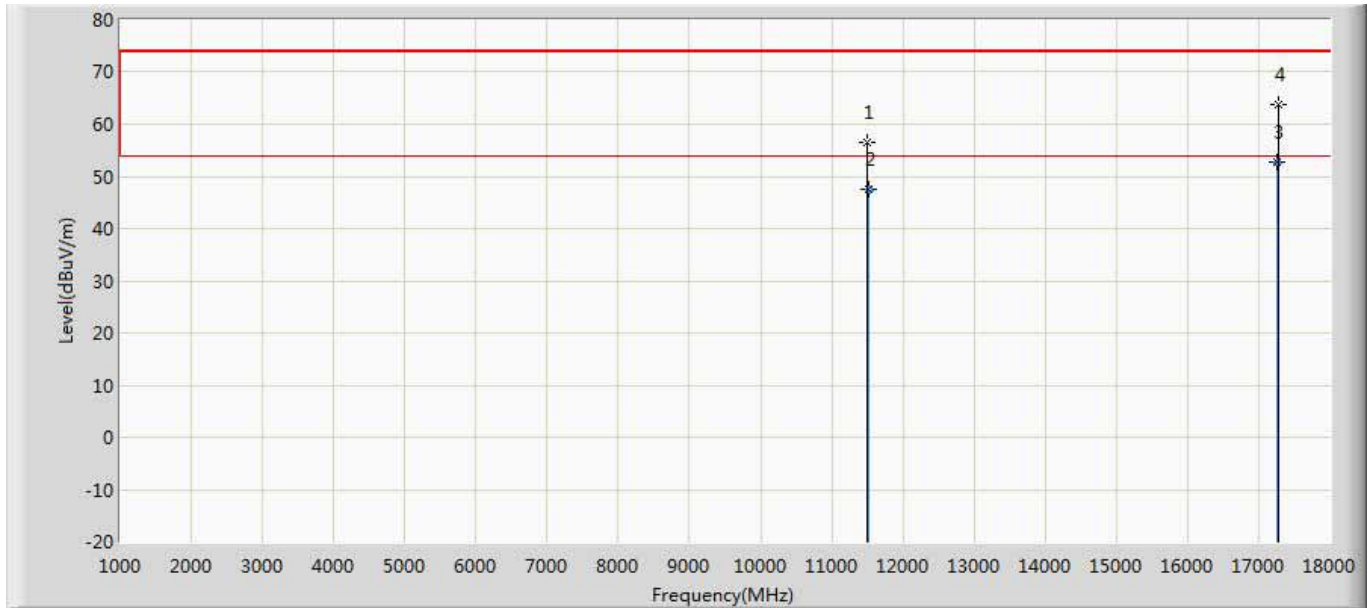
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11648.550	49.636	35.720	-4.364	54.000	13.915	AV
2		11650.500	60.022	46.149	-13.978	74.000	13.873	PK
3	*	17476.600	53.362	33.360	-0.638	54.000	20.002	AV
4		17481.500	64.740	44.681	-9.260	74.000	20.059	PK

Profile: 1752112R	Page No.: 319
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5825MHZ by 802.11n20	



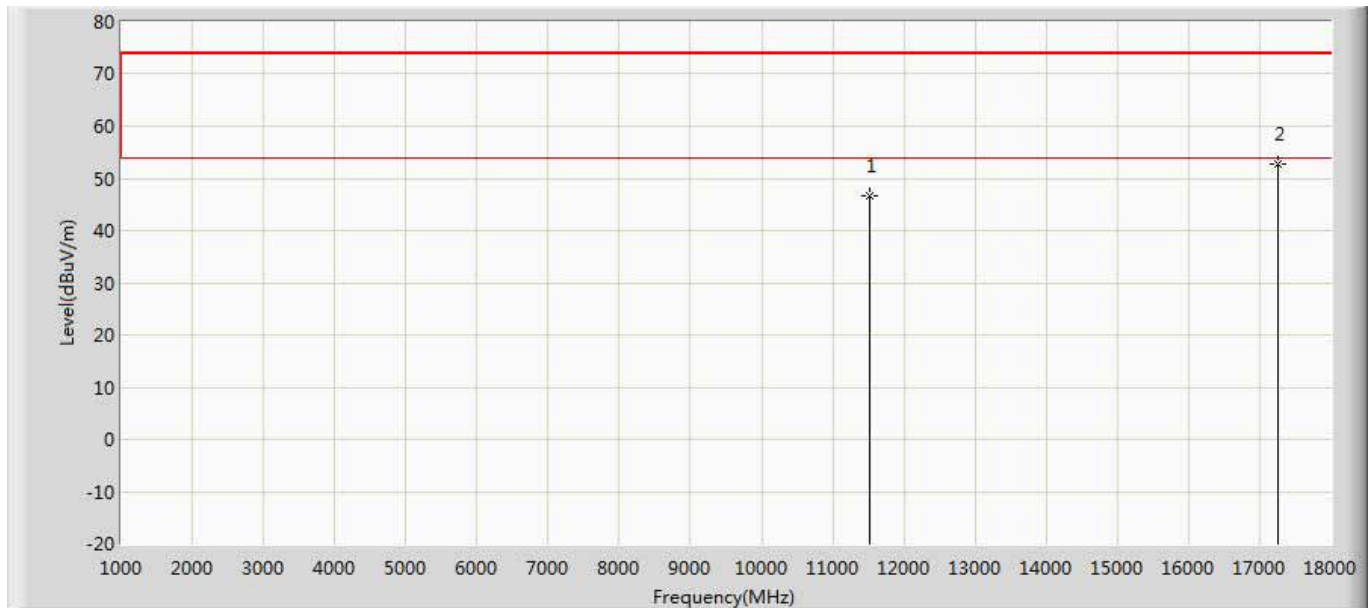
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11650.000	46.325	32.441	-27.675	74.000	13.884	PK
2	*	17475.000	52.963	32.979	-21.037	74.000	19.984	PK

Profile: 1752112R	Page No.: 292
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5755MHZ by 802.11n40	



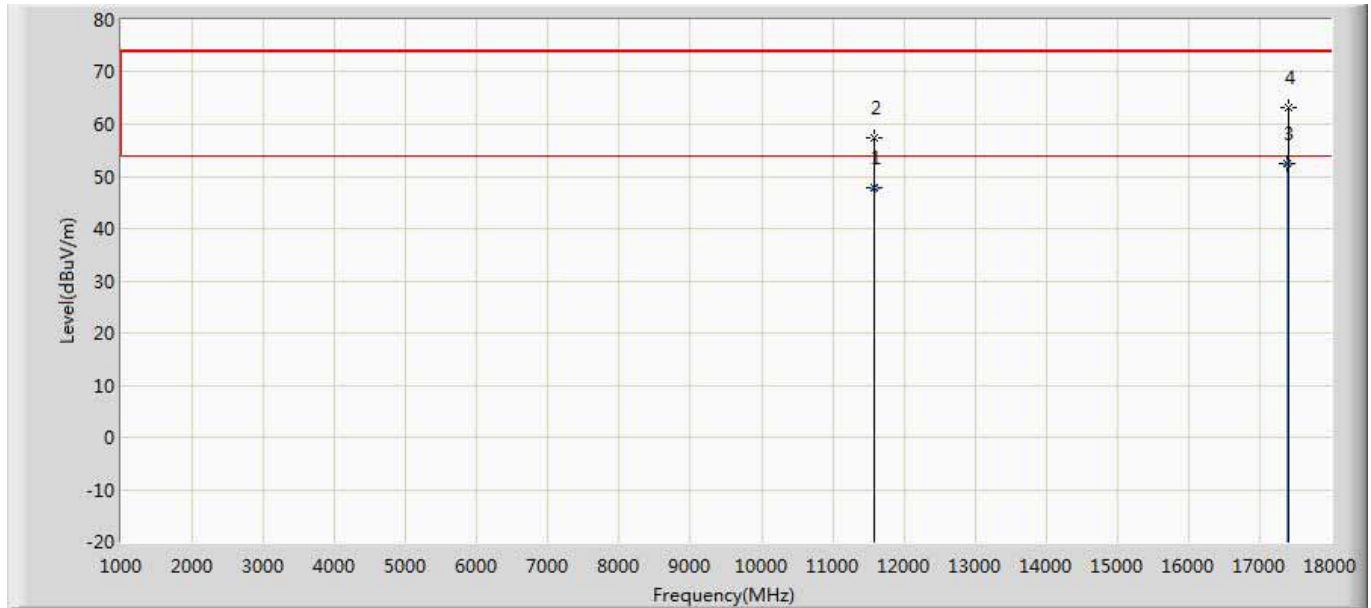
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11506.000	56.624	42.671	-17.376	74.000	13.953	PK
2		11509.330	47.415	33.580	-6.585	54.000	13.835	AV
3	*	17257.650	52.884	32.710	-1.116	54.000	20.174	AV
4		17269.000	63.718	43.014	-10.282	74.000	20.704	PK

Profile: 1752112R	Page No.: 323
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 3 Transmit at 5755MHZ by 802.11n40	



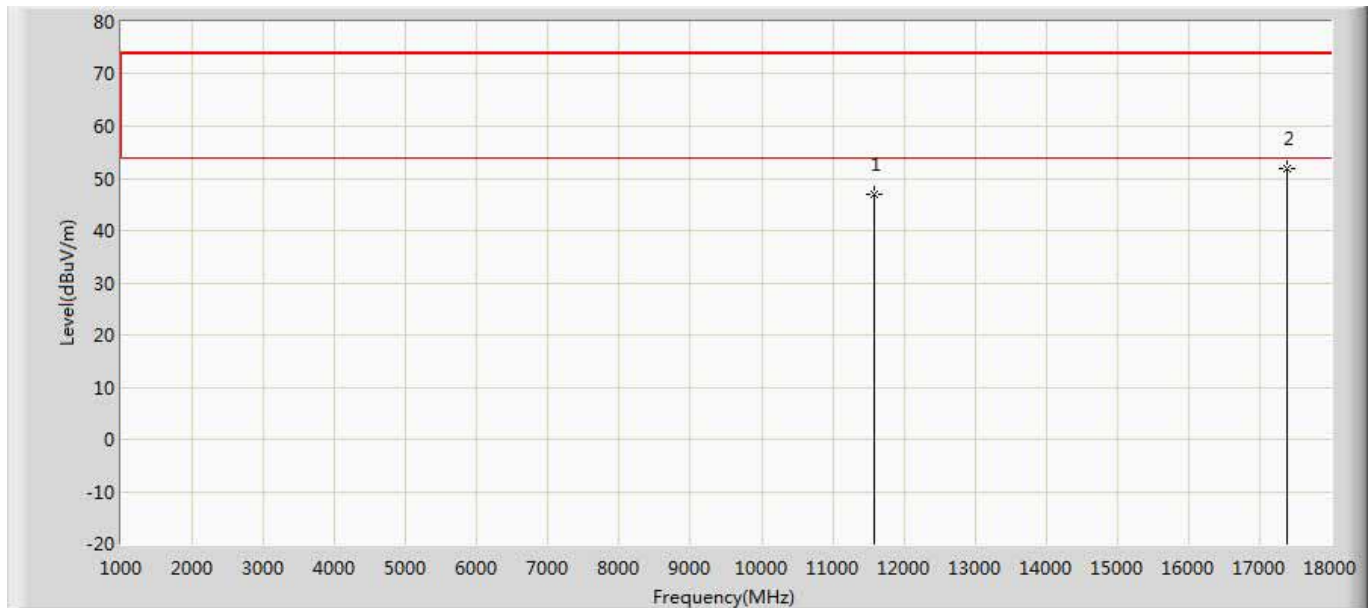
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11510.000	46.756	32.944	-27.244	74.000	13.811	PK
2	*	17265.000	52.614	32.096	-21.386	74.000	20.518	PK

Profile: 1752112R	Page No.: 293
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5795MHZ by 802.11n40	



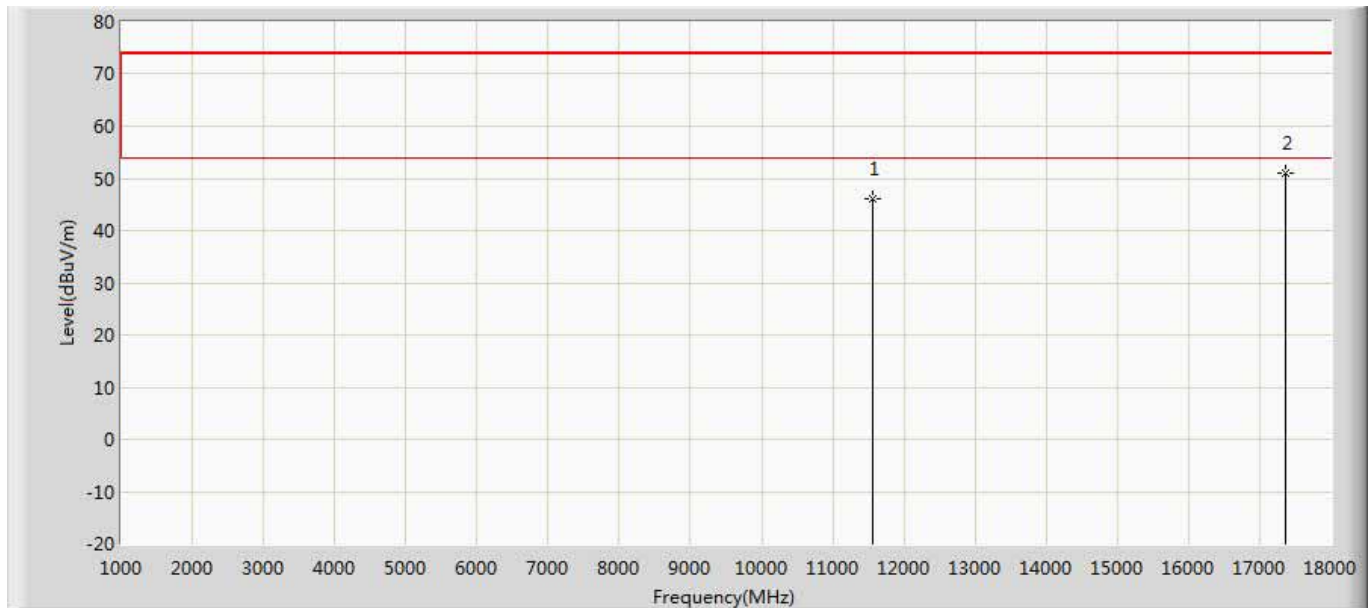
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11589.850	47.758	33.450	-6.242	54.000	14.308	AV
2		11591.000	57.278	42.911	-16.722	74.000	14.367	PK
3	*	17389.400	52.348	32.820	-1.652	54.000	19.529	AV
4		17396.500	63.178	43.488	-10.822	74.000	19.690	PK

Profile: 1752112R	Page No.: 325
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5795MHZ by 802.11n40	



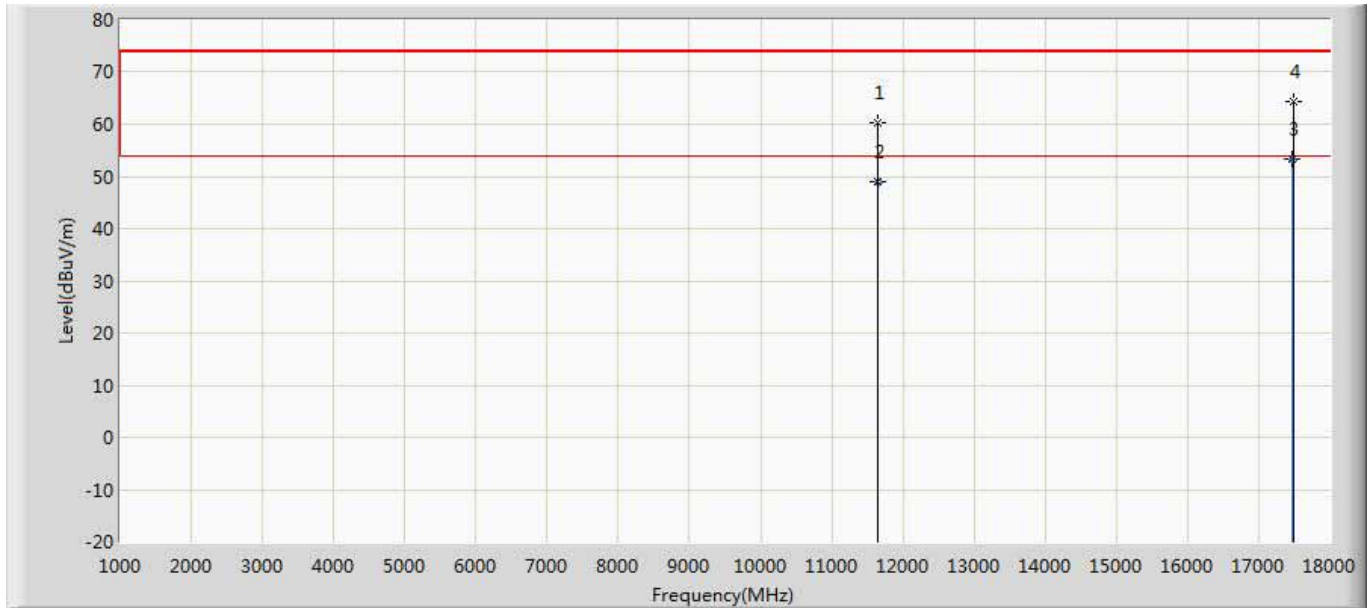
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11590.000	47.064	32.748	-26.936	74.000	14.315	PK
2	*	17385.000	51.987	32.503	-22.013	74.000	19.485	PK

Profile: 1752112R	Page No.: 321
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5785MHZ by 802.11ac20	



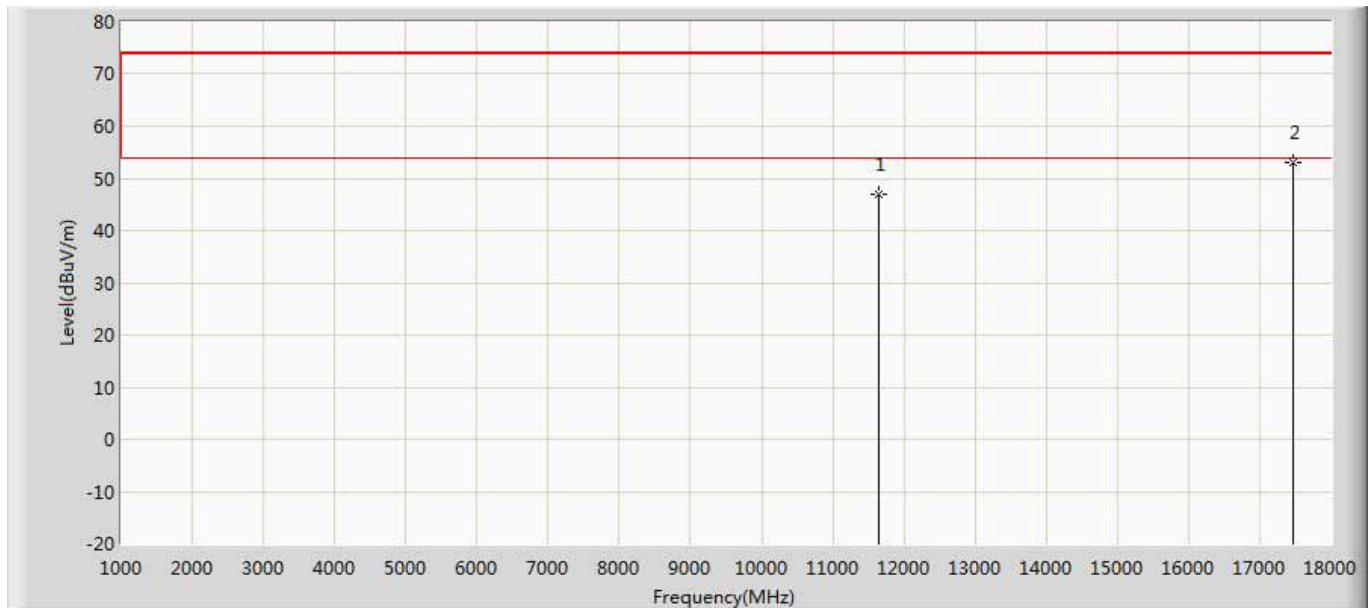
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11570.000	46.152	32.614	-27.848	74.000	13.539	PK
2	*	17355.000	51.146	31.240	-22.854	74.000	19.906	PK

Profile: 1752112R	Page No.: 291
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5825MHZ by 802.11ac20	



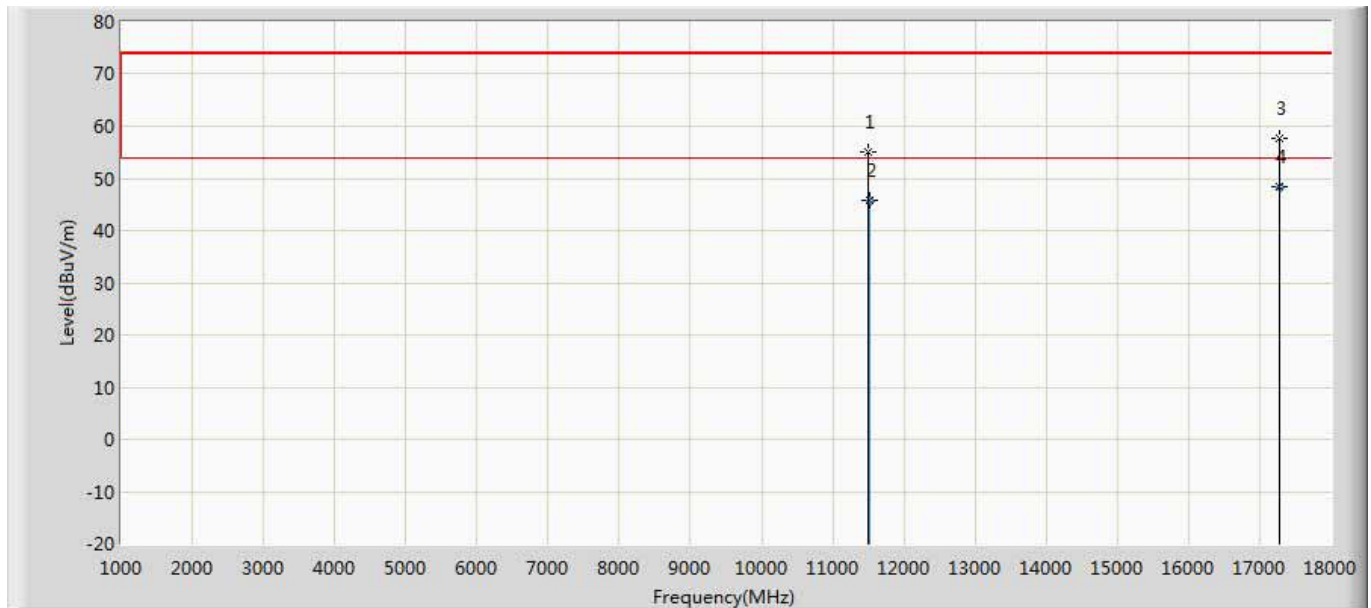
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11642.000	60.375	46.313	-13.625	74.000	14.062	PK
2		11649.450	49.096	35.200	-4.904	54.000	13.896	AV
3	*	17476.000	53.425	33.430	-0.575	54.000	19.995	AV
4		17481.500	64.282	44.223	-9.718	74.000	20.059	PK

Profile: 1752112R	Page No.: 322
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5825MHZ by 802.11ac20	



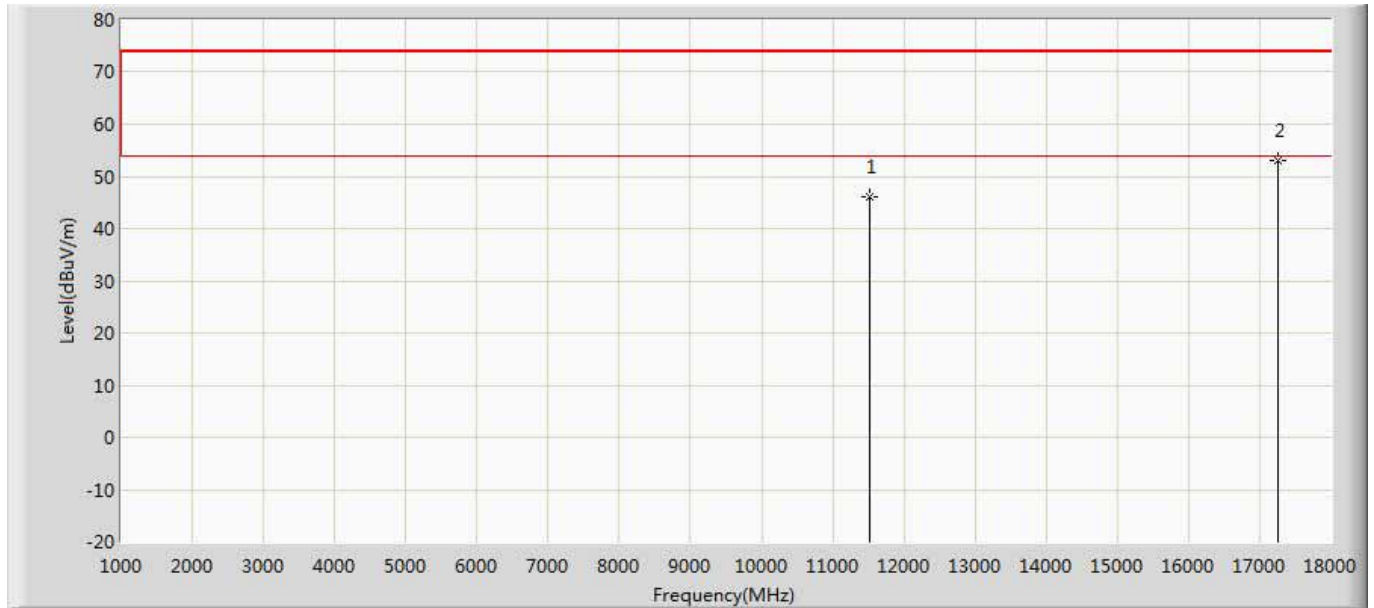
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11650.000	47.072	33.188	-26.928	74.000	13.884	PK
2	*	17475.000	53.151	33.167	-20.849	74.000	19.984	PK

Profile: 1752112R	Page No.: 294
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5755MHZ by 802.11ac40	



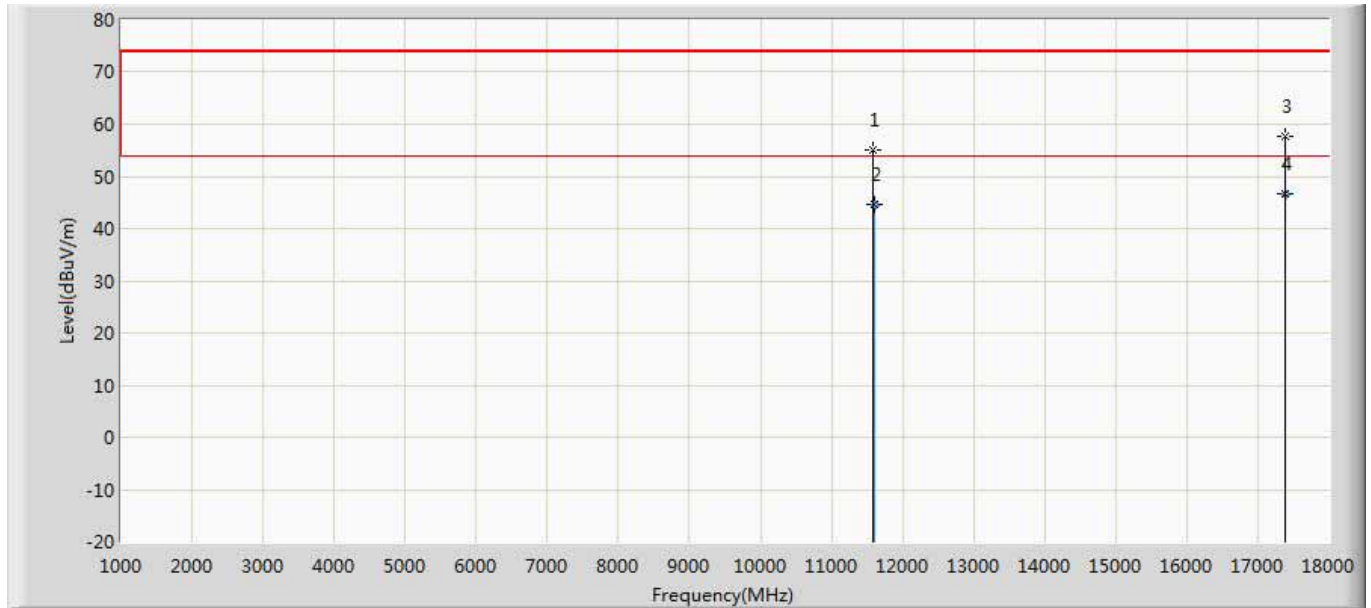
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11506.000	55.089	41.136	-18.911	74.000	13.953	PK
2		11509.800	45.899	32.080	-8.101	54.000	13.819	AV
3		17269.000	57.798	37.094	-16.202	74.000	20.704	PK
4	*	17279.950	48.375	28.170	-5.625	54.000	20.205	AV

Profile: 1752112R	Page No.: 324
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5755MHZ by 802.11ac40	



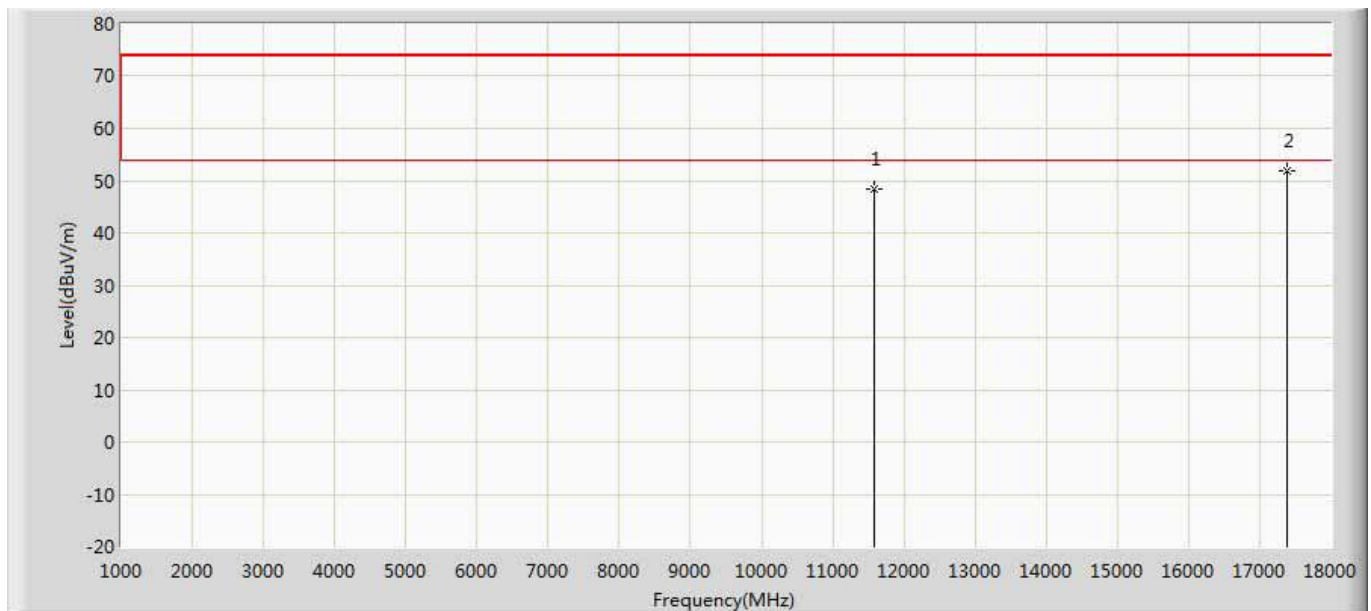
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11510.000	46.161	32.349	-27.839	74.000	13.811	PK
2	*	17265.000	52.951	32.433	-21.049	74.000	20.518	PK

Profile: 1752112R	Page No.: 295
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5795MHZ by 802.11ac40	



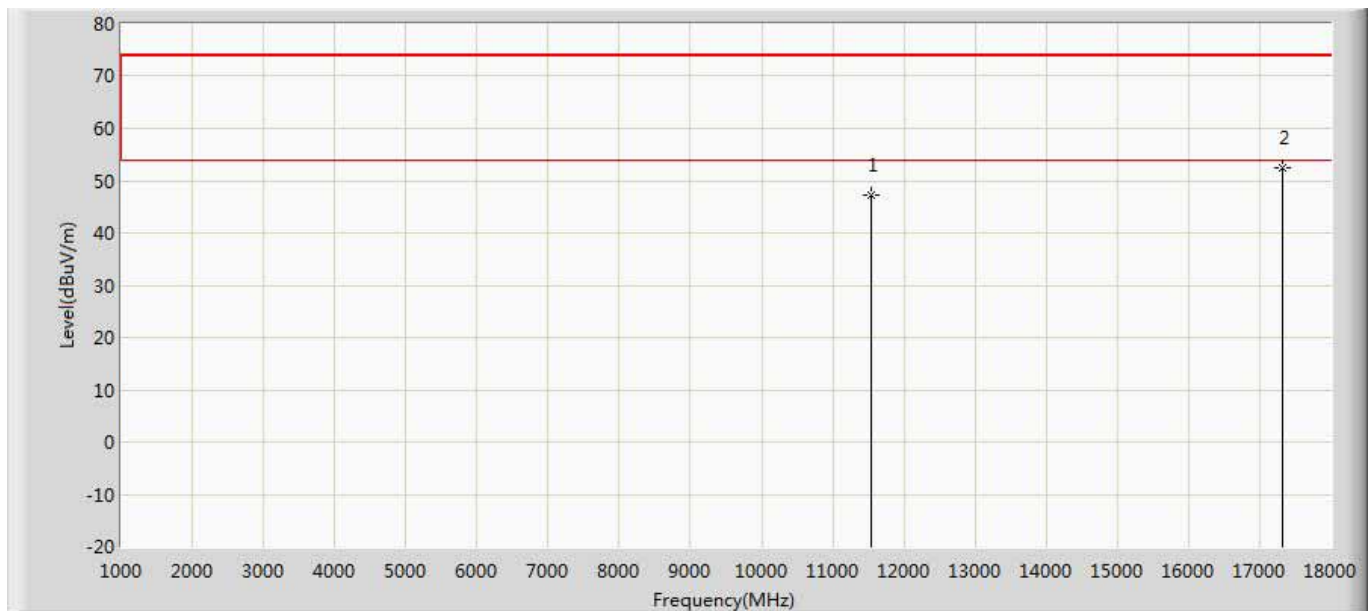
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11591.000	55.118	40.751	-18.882	74.000	14.367	PK
2		11597.200	44.695	30.550	-9.305	54.000	14.145	AV
3		17379.500	57.556	38.095	-16.444	74.000	19.461	PK
4	*	17386.330	46.610	27.120	-7.390	54.000	19.490	AV

Profile: 1752112R	Page No.: 326
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5795MHZ by 802.11ac40	



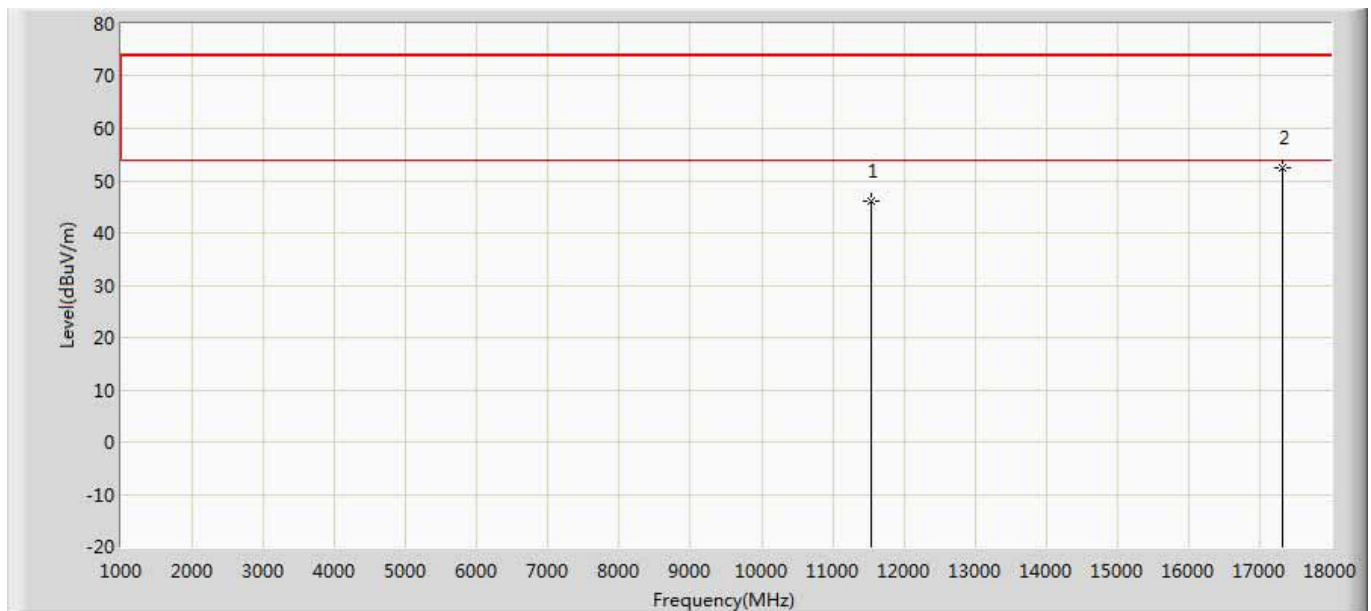
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11590.000	48.493	34.177	-25.507	74.000	14.315	PK
2	*	17385.000	51.966	32.482	-22.034	74.000	19.485	PK

Profile: 1752112R	Page No.: 296
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 6:Transmit at 5775MHZ by 802.11ac80	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11550.000	47.215	33.634	-26.785	74.000	13.581	PK
2	*	17325.000	52.492	32.407	-21.508	74.000	20.085	PK

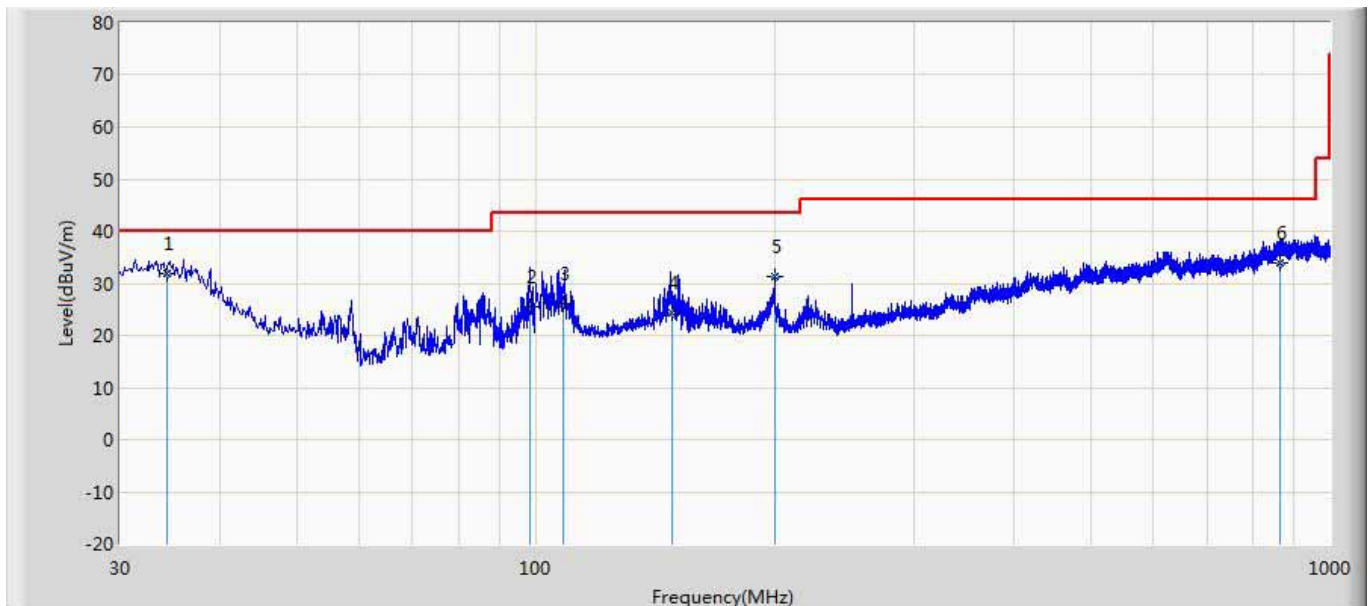
Profile: 1752112R	Page No.: 297
Engineer: Eric	
Site: AC5	Time: 2017/05/17 - 11:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 6:Transmit at 5775MHZ by 802.11ac80	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11550.000	46.069	32.488	-27.931	74.000	13.581	PK
2	*	17325.000	52.509	32.424	-21.491	74.000	20.085	PK

The worst case of Radiated Emission below 1GHz:

Site: AC2	Time: 2017/05/09
Limit: FCC_Part15.209_RE(3m)_ClassB	Margin: 0
Probe: AC2_CBL6112_0726	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1	

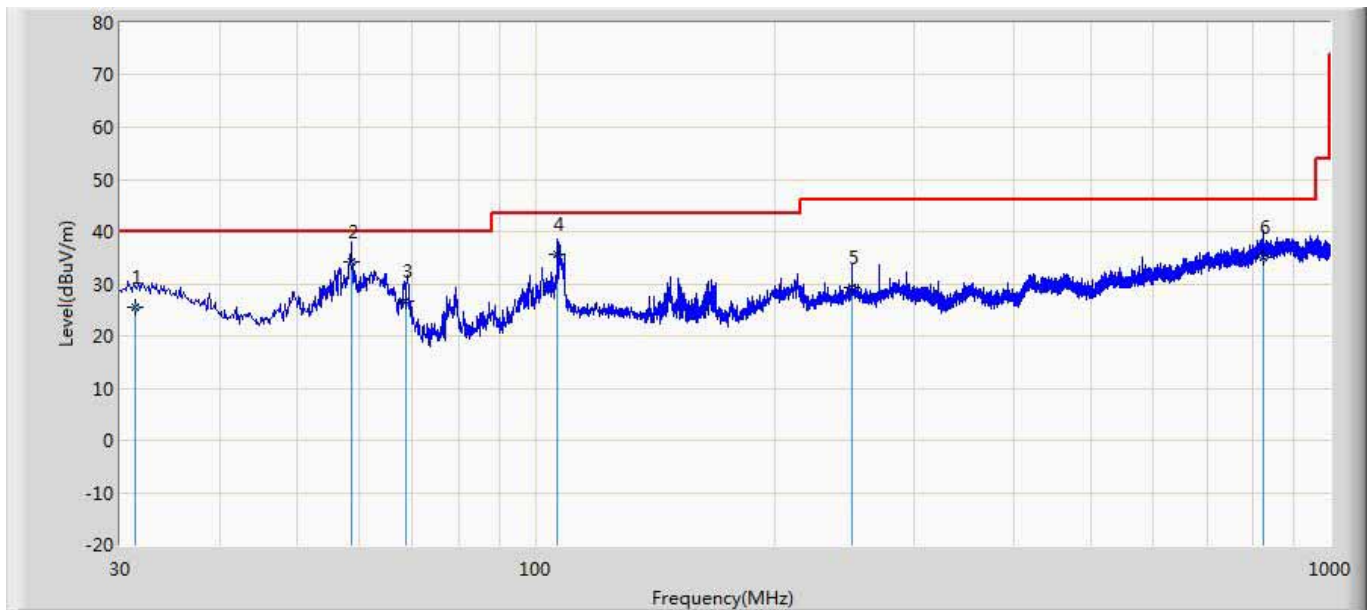


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1	*	34.379	31.926	38.191	-8.074	40.000	16.260	0.635	23.160	200	359	QP
2		98.493	25.447	36.738	-18.053	43.500	10.799	1.076	23.166	200	295	QP
3		108.364	25.943	36.021	-17.557	43.500	11.936	1.128	23.142	200	292	QP
4		148.362	24.363	35.454	-19.137	43.500	10.599	1.320	23.010	200	339	QP
5		200.000	31.355	43.507	-12.145	43.500	9.488	1.540	23.180	200	179	QP
6		866.125	33.993	32.931	-12.007	46.000	20.432	3.240	22.610	200	22	QP

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Site:AC2	Time: 2017/05/09
Limit: FCC_Part15.209_RE(3m)_ClassB	Margin: 0
Probe: AC2_CBL6112_0726	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		31.351	25.372	29.850	-14.628	40.000	18.016	0.614	23.108	100	360	QP
2	*	58.695	34.336	49.818	-5.664	40.000	6.722	0.826	23.030	100	360	QP
3		68.625	26.566	42.419	-13.434	40.000	6.327	0.888	23.068	200	164	QP
4		106.711	35.567	45.826	-7.933	43.500	11.771	1.120	23.150	100	0	QP
5		250.001	29.254	38.278	-16.746	46.000	12.606	1.700	23.330	100	332	QP
6		823.110	35.155	34.216	-10.845	46.000	20.185	3.160	22.406	200	338	QP

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

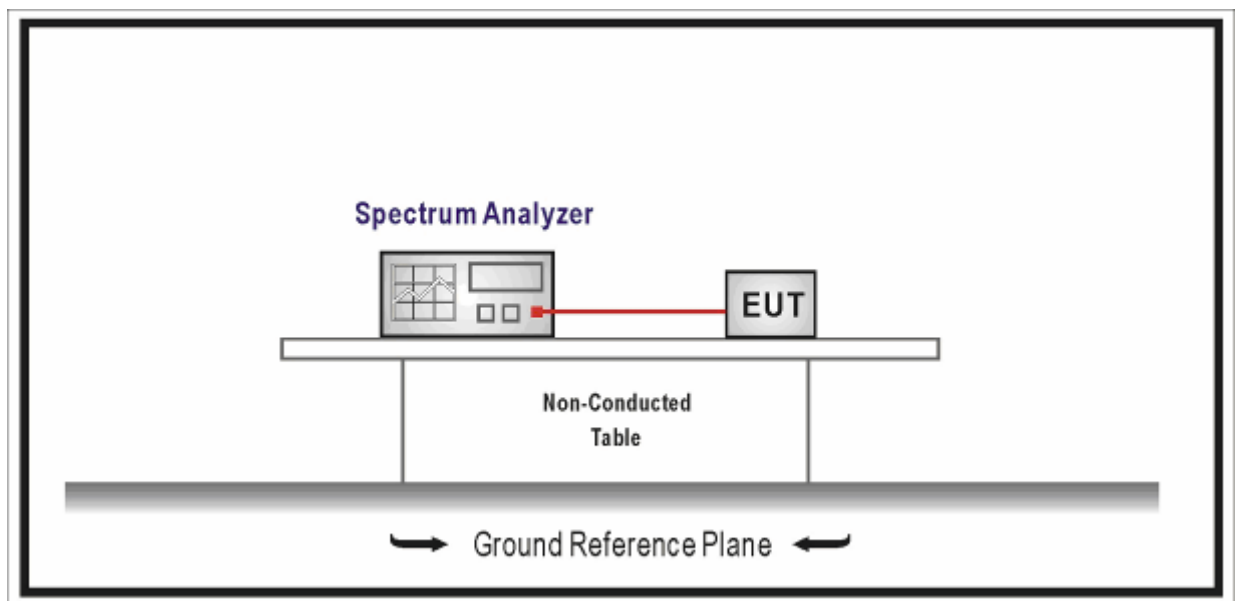
5. Emission bandwidth and occupied bandwidth

5.1. Test Equipment

Emission bandwidth and occupied bandwidth / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2016.02.04	2018.02.04
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2016.04.09	2018.04.09
MXA Signal Analyzer	Keysight	N9020A	MY56060147	2016.04.09	2018.04.09
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2016.04.10	2018.04.10

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

5.2. Test Setup



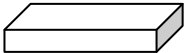
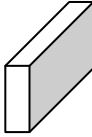
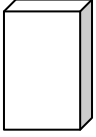
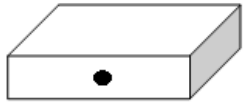
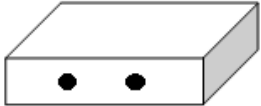
5.3. Limit

N/A

5.4. Test Procedure

Test Method			
	References Rule	Chapter	Description
☐	ANSI C63.10	12.4	Emission bandwidth and occupied bandwidth
	☐ ANSI C63.10	12.4.1	Emission bandwidth (26dB)
	☐ ANSI C63.10	12.4.2	Occupied bandwidth (99%)
☒	FCC KDB 789033 D02v01r04	C	Bandwidth Measurement
	☒ FCC KDB 789033 D02v01r04	C.1	Emission Bandwidth (26dB)
	☐ FCC KDB 789033 D02v01r04	C.2	Minimum Emission Bandwidth for the band 5.725-5.85 GHz (6dB)
☒	FCC KDB 789033 D02v01r04	D	99 Percent Occupied Bandwidth

5.5. EUT test Axis definition

Item	Occupied bandwidth			
Device Category	☐	Outdoor AP		
	☒	Indoor AP		
	☐	Fixed point-to-point AP		
	☐	Outdoor fixed point-to-multipoint AP		
	☐	Client		
Test mode	Mode 1-6			
Test method	☐	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis ☐	Worst Axis ☐	Worst Axis ☐
	☒	Conducted		
	☐	Chain 0		
				
	☒	Chain 0	Chain 1	
				
	☐	Chain 0	Chain 1	Chain 2
				

5.6. Test Result

Product Name	: AC1200 Wireless Dual Band Router	Power	: AC 120V
Model No.	: Archer C50	Test Site	: TR8
Test Mode	: Mode 1~6	Test Date	: 2017.5.14

Mode 1: Transmit by 802.11a					
Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Higher Frequency (MHz)	Result
		Ant0(Worst Data)	Ant0(Worst Data)	Ant0(Worst Data)	
36	5180	29.99	17.987	N/A	Pass
44	5220	29.07	16.948	N/A	Pass
48	5240	29.30	17.178	5248.589	Pass
Mode 2: Transmit by 802.11n(20MHz)					
Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Higher Frequency (MHz)	Result
		Ant0(Worst Data)	Ant0(Worst Data)	Ant0(Worst Data)	
36	5180	29.89	17.987	N/A	Pass
44	5220	30.00	18.082	N/A	Pass
48	5240	29.88	17.900	5248.95	Pass
Mode 3: Transmit by 802.11n(40MHz)					
Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Higher Frequency (MHz)	Result
		Ant0(Worst Data)	Ant0(Worst Data)	Ant0(Worst Data)	
38	5190	44.19	36.177	N/A	Pass
46	5230	46.63	36.085	5248.043	Pass
Mode 4: Transmit by 802.11ac(20MHz)					
Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Higher Frequency (MHz)	Result
		Ant0(Worst Data)	Ant0(Worst Data)	Ant0(Worst Data)	
36	5180	29.74	17.927	N/A	Pass
44	5220	29.75	18.001	N/A	Pass
48	5240	29.95	18.036	5249.018	Pass

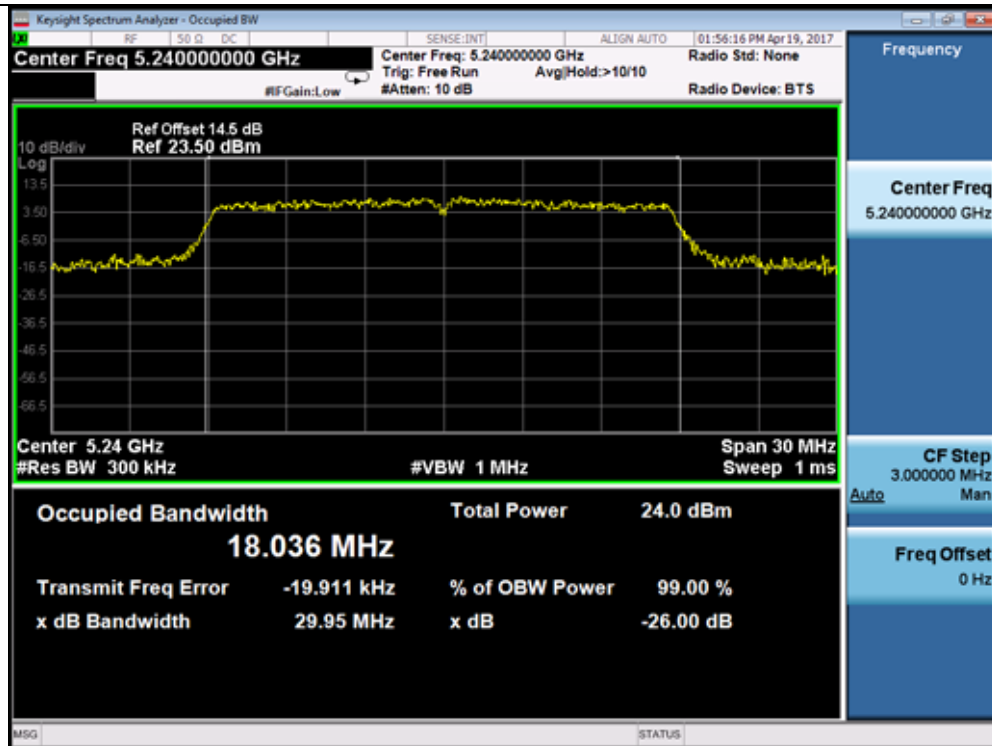
Mode 5: Transmit by 802.11ac(40MHz)

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Higher Frequency (MHz)	Result
		Ant0(Worst Data)	Ant0(Worst Data)	Ant0(Worst Data)	
38	5190	47.35	36.110	N/A	Pass
46	5230	47.43	36.205	5248.103	Pass

Mode 6: Transmit by 802.11ac(80MHz)

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Higher Frequency (MHz)	Result
		Ant0(Worst Data)	Ant0(Worst Data)	Ant0(Worst Data)	
42	5210	81.25	75.078	5247.5375	Pass

The worst case of Occupied Bandwidth as below:

Mode 6: CH42 (5210MHz) Ant 0


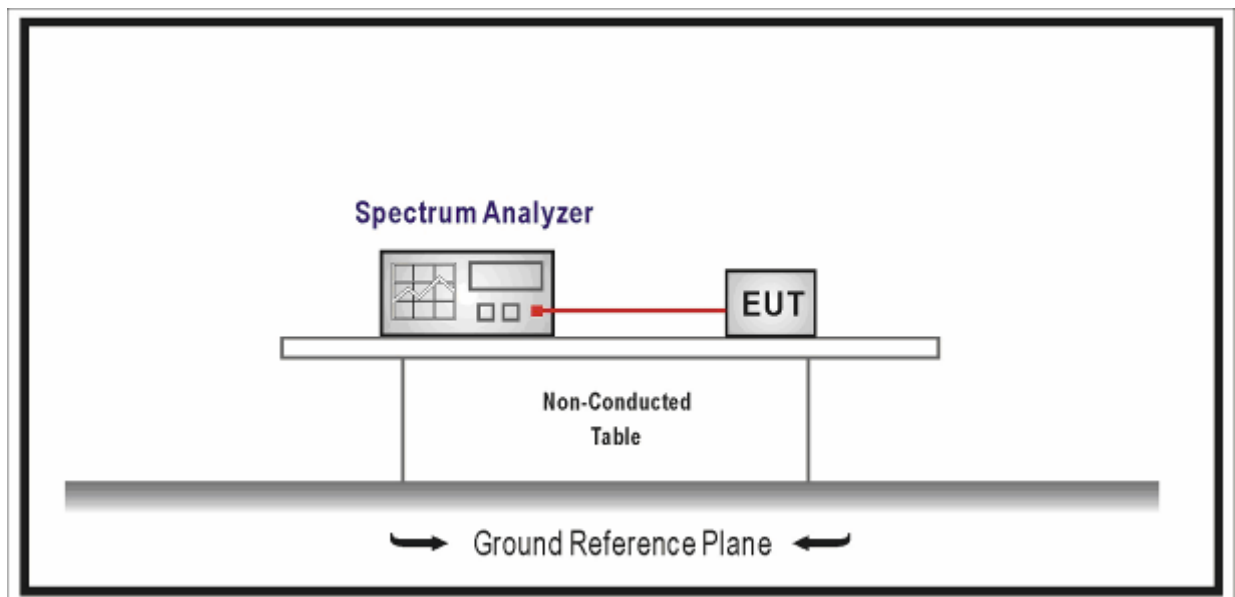
6. 6dB bandwidth

6.1. Test Equipment

6Db bandwidth / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2016.02.04	2018.02.03
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2016.04.09	2018.04.08
MXA Signal Analyzer	Keysight	N9020A	MY56060147	2016.04.09	2018.04.08
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2016.04.10	2018.04.09

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

6.2. Test Setup



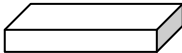
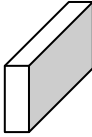
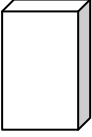
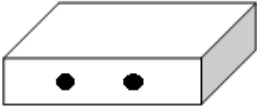
6.3. Limit

>500kHz

6.4. Test Procedure

Test Method			
	References Rule	Chapter	Description
☐	ANSI C63.10	12.4	Emission bandwidth and occupied bandwidth
	☐ ANSI C63.10	12.4.1	Emission bandwidth (26dB)
	☐ ANSI C63.10	12.4.2	Occupied bandwidth (99%)
☒	FCC KDB 789033 D02v01r04	C	Bandwidth Measurement
	☐ FCC KDB 789033 D02v01r04	C.1	Emission Bandwidth (26dB)
	☒ FCC KDB 789033 D02v01r04	C.2	Minimum Emission Bandwidth for the band 5.725-5.85 GHz (6dB)
☐	FCC KDB 789033 D02v01r04	D	99 Percent Occupied Bandwidth

6.5. EUT test Axis definition

Item	6dB bandwidth			
Device Category	☐	Outdoor AP		
	☒	Indoor AP		
	☐	Fixed point-to-point AP		
	☐	Outdoor fixed point-to-multipoint AP		
	☐	Client		
Test mode	Mode 1-6			
Test method	☐	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis ☐	Worst Axis ☐	Worst Axis ☐
	☒	Conducted		
	☐	Chain 0		
				
	☒	Chain 0	Chain 1	
				
	☐	Chain 0	Chain 1	Chain 2
				

6.6. Test Result

Product Name	: AC1200 Wireless Dual Band Router	Power	: PoE 57V
Model No.	: Archer C50	Test Site	: TR8
Test Mode	: Mode 1~6	Test Date	: 2017.05.19

Mode 1: Transmit by 802.11a				
Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant0 (Worst Data)		
149	5745	16.34	>500	Pass
157	5785	15.34		Pass
165	5825	16.33		Pass
Mode 2: Transmit by 802.11n(20MHz)				
Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant0 (Worst Data)		
149	5745	17.56	>500	Pass
157	5785	16.89		Pass
165	5825	17.01		Pass
Mode 3: Transmit by 802.11n(40MHz)				
Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant0 (Worst Data)		
151	5755	35.18	>500	Pass
159	5795	35.11		Pass
Mode 4: Transmit by 802.11ac(20MHz)				
Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant0 (Worst Data)		
149	5745	17.53	>500	Pass
157	5785	16.87		Pass
165	5825	17.33		Pass

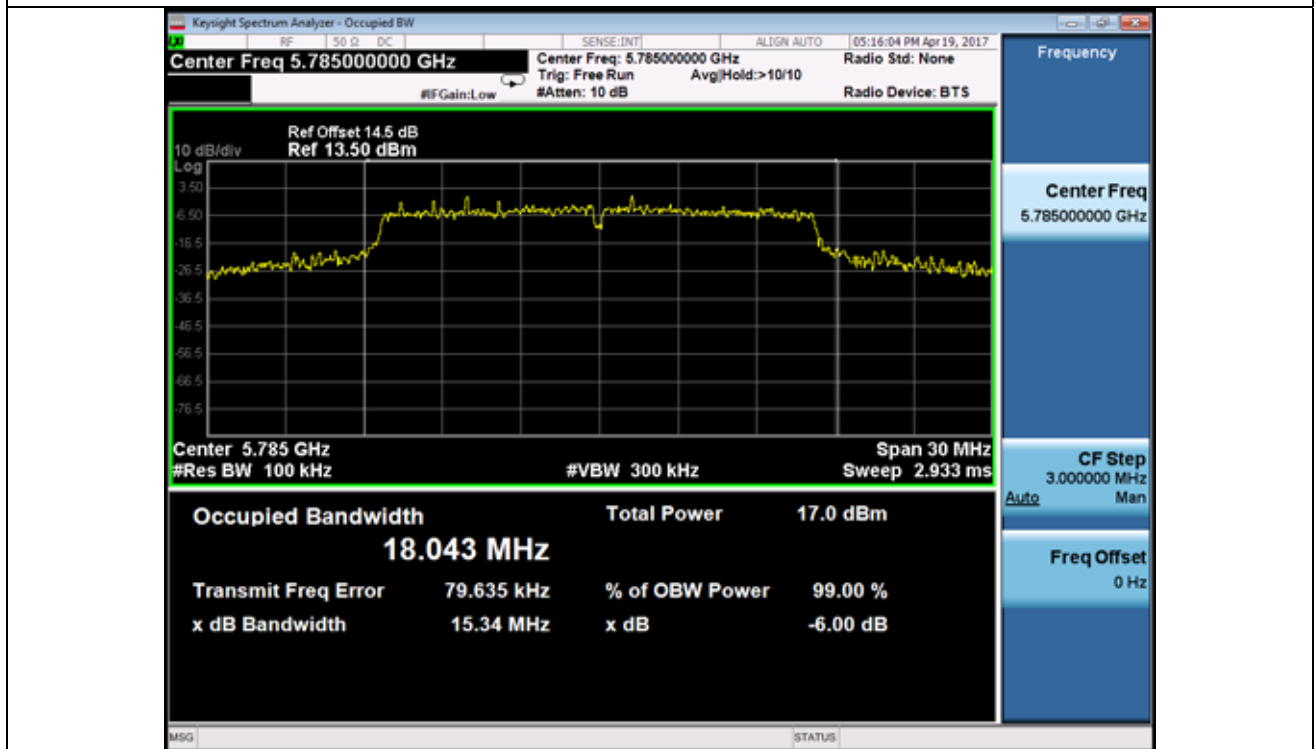
Mode 5: Transmit by 802.11ac(40MHz)

Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant0 (Worst Data)		
151	5755	34.20	>500	Pass
159	5795	34.24		Pass

Mode 6: Transmit by 802.11ac(80MHz)

Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant0 (Worst Data)		
155	5775	74.23	>500	Pass

The worst case of 6dB Bandwidth as below:

Mode 1: CH157 (5785MHz) Ant 0


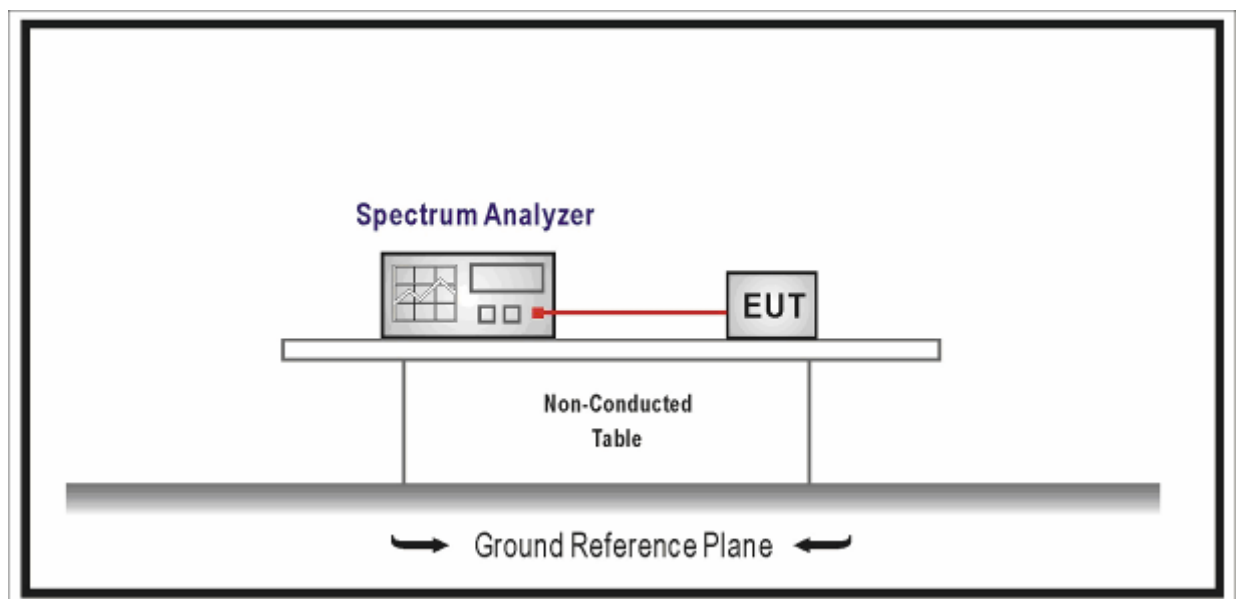
7. Power Output

7.1. Test Equipment

Power Output / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2017.01.03	2018.01.02
Spectrum Analyzer	Agilent	N9010A	MY48030494	2016.02.04	2018.02.03
Wideband Peak Power Meter	Anritsu	ML2495A	0905006	2016.10.14	2017.10.13
Power Sensor	Anritsu	MA2411B	0846014	2016.10.14	2017.10.13
Temperature/Humidity Meter	zhicheng	ZC1-2	TR8-TH	2016.04.10	2018.04.09

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

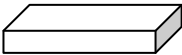
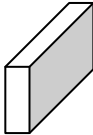
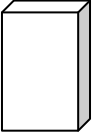
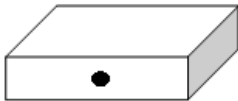
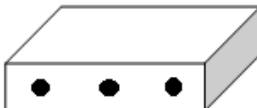
Fundamental emission output power Limit	
☒	For the band 5.15-5.25 GHz
☐	Outdoor access point: the maximum conducted output power shall not exceed 1 W. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq 30 - (G_{TX} - 6)$ and $\leq 125\text{mW}$ at any angle above 30 degrees
☒	Indoor access point: the maximum conducted output power shall not exceed 1 W. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq 30 - (G_{TX} - 6)$
☐	Fixed point-to-point access points: the maximum conducted output power shall not exceed 1 W. If $G_{TX} > 23\text{dBi}$, then $P_{out} \leq 30 - (G_{TX} - 23)$
☐	Mobile and portable client devices: the maximum conducted output power shall not exceed 250mW. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq 24 - (G_{TX} - 6)$
☐	For the band 5.25-5.35 GHz:
☐	the maximum conducted output power shall not exceed 250mW or $11\text{dBm} + 10 \log B$, where B is the 26dB emission bandwidth in MHz. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq (\text{The lesser of } 24 \text{ or } 11\text{dBm} + 10 \log B) - (G_{TX} - 6)$
☐	For the 5.47-5.725 GHz:
☐	the maximum conducted output power shall not exceed 250mW or $11\text{dBm} + 10 \log B$, where B is the 26dB emission bandwidth in MHz. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq (\text{The lesser of } 24 \text{ or } 11\text{dBm} + 10 \log B) - (G_{TX} - 6)$
☒	For the band 5.725-5.85 GHz:
☒	Point-to-multipoint systems (P2M): the maximum conducted output power (P_{out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6 \text{ dBi}$, then $P_{out} = 30 - (G_{TX} - 6)$
☐	Point-to-point systems (P2P): the maximum conducted output power (P_{out}) shall not exceed the lesser of 1 W
Note 1 : G_{TX} directional gain of transmitting antennas.	
Note 2 : P_{out} is maximum peak conducted output power .	

7.4. Test Procedure

Fundamental emission output power Test Method					
	References Rule			Chapter	Description
☒	ANSI C63.10			12.3	Maximum conducted output power
	☒	ANSI C63.10		12.3.2	Maximum conducted output power measurement using a spectrum analyzer (SA) or EMI receiver
		☐	ANSI C63.10	12.3.2.2	Method SA-1
		☐	ANSI C63.10	12.3.2.3	Method SA-1A (alternative)
		☒	ANSI C63.10	12.3.2.4	Method SA-2
		☐	ANSI C63.10	12.3.2.5	Method SA-2A (alternative)
		☐	ANSI C63.10	12.3.2.6	Method SA-3
		☐	ANSI C63.10	12.3.2.7	Method SA-3A (alternative)
	☒	ANSI C63.10		12.3.3	Maximum conducted output power using a power meter
		☐	ANSI C63.10	12.3.3.1	Method PM
		☒	ANSI C63.10	12.3.3.2	Method PM-G
☒	KDB 789033			H	Measurement of emission at elevation angle higher than 30° from horizon
	☒	KDB 789033		1	For fixed infrastructure, not electrically or mechanically steerable beam antenna
		☒	KDB 789033	a)	elevation plane radiation pattern is available:
		☐	KDB 789033	b)	elevation plane radiation pattern is not available
	☐	KDB 789033		2	For All Other Types of Antenna

Directional Gain Calculations for In-Band test method				
	References Rule		Chapter	Description
☐	KDB 662911		F2)a)	Basic methodology with NANT transmit antennas
	☐	KDB 662911	F2)a) (i)	transmit signals are correlated
	☐	KDB 662911	F2)a) (ii)	transmit signals are uncorrelated
☐	KDB 662911		F2)b)	Sectorized antenna systems.
☐	KDB 662911		F2)c)	Cross-polarized antennas
	☒	ANSI C63.10	F2)c) (i)	Cross-polarized antennas with NANT = 2.
	☐	ANSI C63.10	F2)c) (ii)	Multiple antennas
☐	KDB 662911		F2)d)	Sectorized antenna systems.
	☐	KDB 662911	F2)d) (i)	transmit signals are correlated
	☐	KDB 662911	F2)d) (ii)	transmit signals are uncorrelated
☐	KDB 662911		F2)e)	Spatial Multiplexing
	☐	KDB 662911	F2)e) (i)	Antennas have the same gain
	☐	KDB 662911	F2)e) (ii)	Antenna have the different gain with one spatial stream
	☐	KDB 662911	F2)e) (iii)	Antenna have the different gain with more than one spatial stream
☒	KDB 662911		F2)f)	Cyclic Delay Diversity (CDD)
	☒	KDB 662911	F2)f) (i)	Antennas have the same gain
	☐	KDB 662911	F2)f) (ii)	Antenna have the different gain with one spatial stream
	☐	KDB 662911	F2)f) (ii)	Antenna have the different gain with more than one spatial stream

7.5. EUT test Axis definition

Item	Power Output			
Device Category	☐	Outdoor AP		
	☒	Indoor AP		
	☐	Fixed point-to-point AP		
	☐	Outdoor fixed point-to-multipoint AP		
	☐	Client		
Test mode	Mode 1-6			
Test method	☐	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis ☐	Worst Axis ☐	Worst Axis ☐
	☒	Conducted		
	☐	Chain 0		
				
	☒	Chain 0	Chain 1	
				
	☐	Chain 0	Chain 1	Chain 2
				

7.6. Test Result

Product Name	:	AC1200 Wireless Dual Band Router	Power	:	AC 120V
Model No.	:	Archer C50	Test Site	:	TR8
Test Mode	:	Mode 1~6	Test Date	:	2017.05.15

Mode 1: Transmit by 802.11a						
Channel No.	Frequency (MHz)	Measurement Power		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
CH36	5180	17.22	17.56	20.40	30.0	Pass
CH42	5220	17.35	17.64	20.51	30.0	Pass
CH48	5240	17.26	17.61	20.45	30.0	Pass
CH149	5745	20.49	20.87	23.69	30.0	Pass
CH157	5785	20.46	20.84	23.66	30.0	Pass
CH165	5825	20.52	20.78	23.66	30.0	Pass
Mode 2: Transmit by 802.11n(20MHz)						
Channel No.	Frequency (MHz)	Measurement Power		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
CH36	5180	17.34	17.53	20.45	30.0	Pass
CH42	5220	17.59	17.78	20.70	30.0	Pass
CH48	5240	19.02	19.11	22.08	30.0	Pass
CH149	5745	20.63	20.77	23.71	30.0	Pass
CH157	5785	20.67	20.82	23.76	30.0	Pass
CH165	5825	20.54	20.81	23.69	30.0	Pass
Mode 3: Transmit by 802.11n(40MHz)						
Channel No.	Frequency (MHz)	Measurement Power (dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
38	5190	13.23	12.91	16.08	30.0	Pass
46	5230	19.11	18.93	22.03	30.0	Pass
151	5755	18.97	18.45	21.73	30.0	Pass
159	5795	20.64	20.76	23.71	30.0	Pass

Mode 4: Transmit by 802.11ac(20MHz)

Channel No.	Frequency (MHz)	Measurement Power		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
CH36	5180	17.64	17.87	20.77	30.0	Pass
CH42	5220	17.19	17.54	20.38	30.0	Pass
CH48	5240	18.92	19.05	22.00	30.0	Pass
CH149	5745	20.56	20.79	23.69	30.0	Pass
CH157	5785	20.65	20.72	23.70	30.0	Pass
CH165	5825	20.51	20.82	23.68	30.0	Pass

Mode 5: Transmit by 802.11ac(40MHz)

Channel No.	Frequency (MHz)	Measurement Power (dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
38	5190	12.57	12.39	15.49	30.0	Pass
46	5230	19.02	19.16	22.10	30.0	Pass
151	5755	18.93	18.54	21.75	30.0	Pass
159	5795	20.67	20.83	23.76	30.0	Pass

Mode 6: Transmit by 802.11ac(80MHz)

Channel No.	Frequency (MHz)	Measurement Power (dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
CH42	5210	10.02	10.1	13.07	30.0	Pass
CH155	5775	14.68	14.43	17.57	30.0	Pass

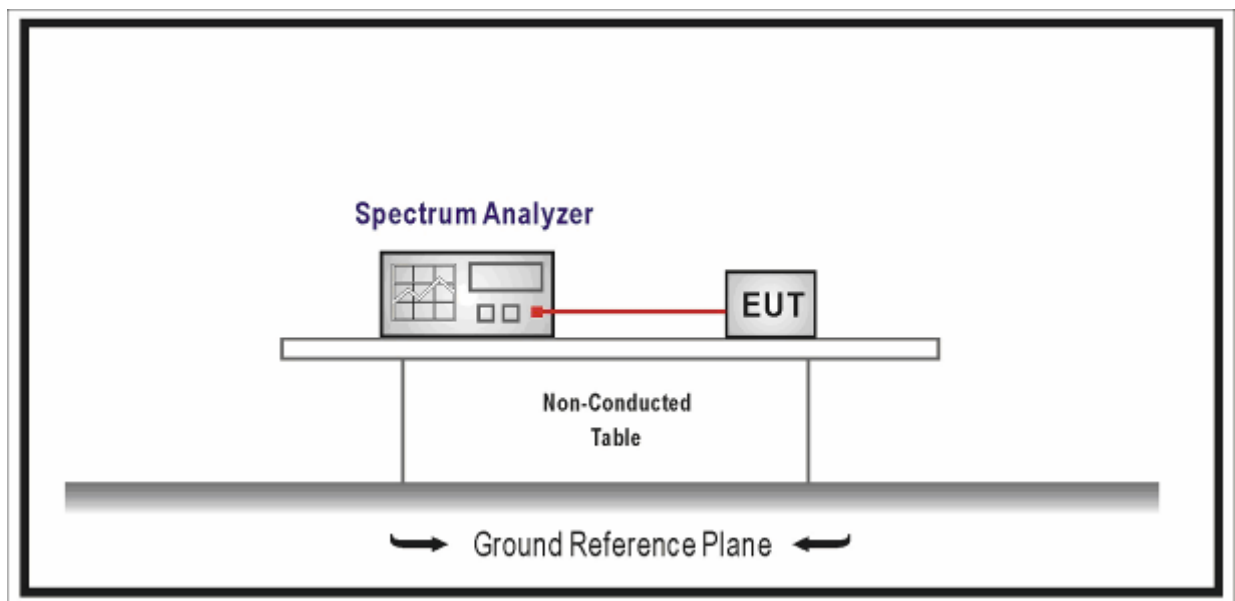
8. Peak Power Spectral Density

8.1. Test Equipment

Peak Power Spectral Density / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2016.02.04	2018.02.03
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2016.04.09	2018.04.08
MXA Signal Analyzer	Keysight	N9020A	MY56060147	2016.04.09	2018.04.08
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2016.04.10	2018.04.09

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

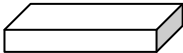
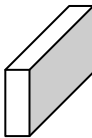
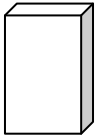
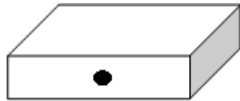
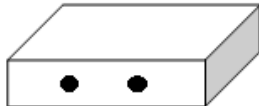
Fundamental emission output power Limit	
☒	For the band 5.15-5.25 GHz
☐	Outdoor access point: the maximum power spectral density shall not exceed 17 dBm/MHz. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq 17 - (G_{TX} - 6)$
☒	Indoor access point: the maximum power spectral density shall not exceed 17 dBm/MHz. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq 17 - (G_{TX} - 6)$
☐	Fixed point-to-point access points: the maximum power spectral density shall not exceed 17 dBm/MHz. If $G_{TX} > 23\text{dBi}$, then $P_{out} \leq 17 - (G_{TX} - 23)$
☐	Mobile and portable client devices: the maximum power spectral density shall not exceed 11 dBm/MHz. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq 11 - (G_{TX} - 6)$
☐	For the 5.25-5.35 GHz:
☐	the maximum power spectral density shall not exceed 11 dBm/MHz. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq 11 - (G_{TX} - 6)$
☐	For the 5.47-5.725 GHz:
☐	the maximum power spectral density shall not exceed 11 dBm/MHz. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq 11 - (G_{TX} - 6)$
☒	For the band 5.725-5.85 GHz:
☒	the maximum power spectral density shall not exceed 30 dBm/500KHz. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq 30 - (G_{TX} - 6)$
Note 1 : G_{TX} directional gain of transmitting antennas.	
Note 2 : P_{out} is maximum peak conducted output power .	

8.4. Test Procedure

Fundamental emission output power Test Method			
	References Rule	Chapter	Description
☒	ANSI C63.10	12.5	Peak power spectral density
☒	FCC KDB 789033 D02v01r03	F	Maximum Power Spectral Density (PSD)

Directional Gain Calculations for In-Band test method				
	References Rule		Chapter	Description
☐	KDB 662911		F2)a)	Basic methodology with NANT transmit antennas
	☐	KDB 662911	F2)a) (i)	transmit signals are correlated
	☐	KDB 662911	F2)a) (ii)	transmit signals are uncorrelated
☐	KDB 662911		F2)b)	Sectorized antenna systems.
☐	KDB 662911		F2)c)	Cross-polarized antennas
	☐	ANSI C63.10	F2)c) (i)	Cross-polarized antennas with NANT = 2.
	☐	ANSI C63.10	F2)c) (ii)	Multiple antennas
☐	KDB 662911		F2)d)	Sectorized antenna systems.
	☐	KDB 662911	F2)d) (i)	transmit signals are correlated
	☐	KDB 662911	F2)d) (ii)	transmit signals are uncorrelated
☐	KDB 662911		F2)e)	Spatial Multiplexing
	☐	KDB 662911	F2)e) (i)	Antennas have the same gain
	☐	KDB 662911	F2)e) (ii)	Antenna have the different gain with one spatial stream
	☐	KDB 662911	F2)e) (iii)	Antenna have the different gain with more than one spatial stream
☒	KDB 662911		F2)f)	Cyclic Delay Diversity (CDD)
	☒	KDB 662911	F2)f) (i)	Antennas have the same gain
	☐	KDB 662911	F2)f) (ii)	Antenna have the different gain with one spatial stream
	☐	KDB 662911	F2)f) (ii)	Antenna have the different gain with more than one spatial stream

8.5. EUT test Axis definition

Item	Peak power spectral density			
Device Category	☐	Outdoor AP		
	☒	Indoor AP		
	☐	Fixed point-to-point AP		
	☐	Outdoor fixed point-to-multipoint AP		
	☐	Client		
Test mode	Mode 1-6			
Test method	☐	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis ☐	Worst Axis ☐	Worst Axis ☐
	☒	Conducted		
	☐	Chain 0		
				
	☒	Chain 0	Chain 1	
				
	☐	Chain 0	Chain 1	Chain 2
				

8.6. Test Result

Product Name	: AC1200 Wireless Dual Band Router	Power	: AC 120V
Model No.	: Archer C50	Test Site	: TR8
Test Mode	: Mode 1~6	Test Date	: 2017.05.16

Mode 1: Transmit by 802.11a						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant1	Ant2			
CH36	5180	8.499	8.115	11.32	17.0	Pass
CH44	5220	7.404	7.182	10.30	17.0	Pass
CH48	5240	7.505	6.971	10.26	17.0	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)		Total PPSD (dBm/500KHz)	Limit (dBm/500KHz)	Result
		Ant1	Ant2			
CH149	5745	6.979	7.103	10.05	28.56	Pass
CH157	5785	6.437	6.934	9.70	28.56	Pass
CH165	5825	6.618	7.017	9.83	28.56	Pass
Mode 2: Transmit by 802.11n(20MHz)						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant1	Ant2			
CH36	5180	8.123	8.089	11.12	17.0	Pass
CH44	5220	7.724	7.291	10.52	17.0	Pass
CH48	5240	8.454	8.822	11.65	17.0	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)		Total PPSD (dBm/500KHz)	Limit (dBm/500KHz)	Result
		Ant1	Ant2			
CH149	5745	6.639	7.030	9.85	28.56	Pass
CH157	5785	6.428	6.551	9.50	28.56	Pass
CH165	5825	6.307	6.390	9.36	28.56	Pass
Mode 3: Transmit by 802.11n(40MHz)						

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Total PPSSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant1	Ant2			
CH38	5190	-0.390	-0.637	2.50	17.0	Pass
CH46	5230	5.515	5.263	8.40	17.0	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)		Total PPSSD (dBm/500KHz)	Limit (dBm/500KHz)	Result
		Ant1	Ant2			
CH151	5755	2.515	2.139	5.34	28.56	Pass
CH159	5795	3.207	3.302	6.27	28.56	Pass

Mode 4: Transmit by 802.11ac(20MHz)

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Total PPSSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant1	Ant2			
CH36	5180	7.784	7.467	10.64	17.0	Pass
CH44	5220	7.853	7.375	10.63	17.0	Pass
CH48	5240	8.869	8.444	11.67	17.0	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)		Total PPSSD (dBm/500KHz)	Limit (dBm/500KHz)	Result
		Ant1	Ant2			
CH149	5745	6.387	6.693	9.55	28.56	Pass
CH157	5785	6.226	6.485	9.37	28.56	Pass
CH165	5825	5.960	6.123	9.05	28.56	Pass

Mode 5: Transmit by 802.11ac(40MHz)

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Total PPSSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant1	Ant2			
CH38	5190	-0.159	-0.522	2.67	17.0	Pass
CH46	5230	5.543	5.519	8.54	17.0	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)		Total PPSSD (dBm/500KHz)	Limit (dBm/500KHz)	Result
		Ant1	Ant2			

		Ant1	Ant2			
CH151	5755	2.066	1.939	5.01	28.56	Pass
CH159	5795	3.142	3.690	6.43	28.56	Pass

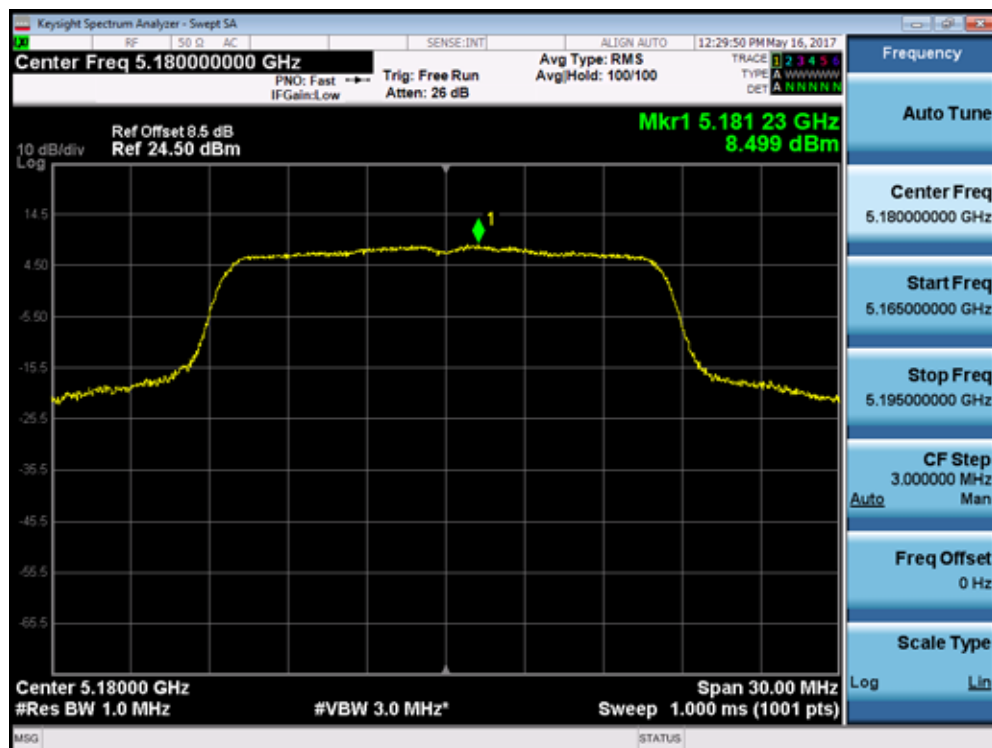
Mode 6: Transmit by 802.11ac(80MHz)

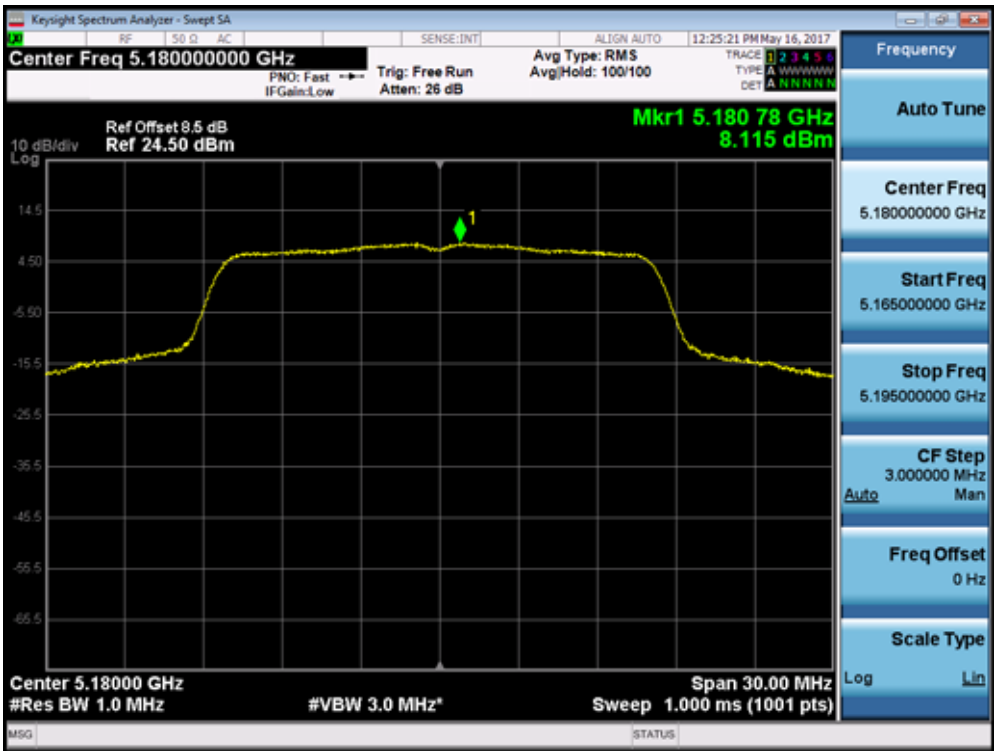
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Total PPSS (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant1	Ant2			
CH42	5210	-5.573	-5.751	-2.65	17.0	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)		Total PPSS (dBm/500KHz)	Limit (dBm/500KHz)	Result
		Ant1	Ant2			
CH155	5775	-3.951	-4.269	-1.10	28.56	Pass

Note: Limit = Power Density Limit – (Antenna Gain – 6dBi)

The worst case of 6dB Bandwidth as below:

Mode 1 CH36 (5180MHz) Ant 1





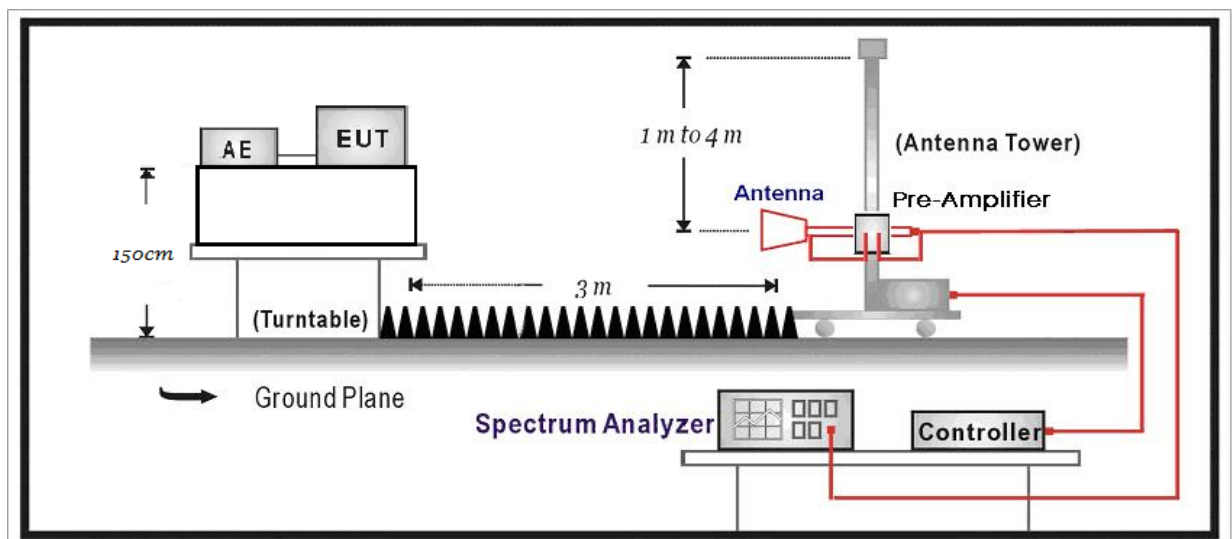
9. Radiated Emission Band Edge

9.1. Test Equipment

Radiated Emission Band Edge / AC-5					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Receiver	Agilent	N9038A	MY51210196	2016.07.16	2017.07.15
Pre-Amplifier	Miteq	NSP1800-25	1364185	2016.05.03	2018.05.02
DRG Horn Antenna	ETS-Lindgren	3117	00167055	2016.07.12	2017.07.11
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2016.12.12	2017.09.17
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C1	2016.02.28	2018.02.27
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2016.02.28	2018.02.27
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.

9.2. Test Setup



9.3. Limit

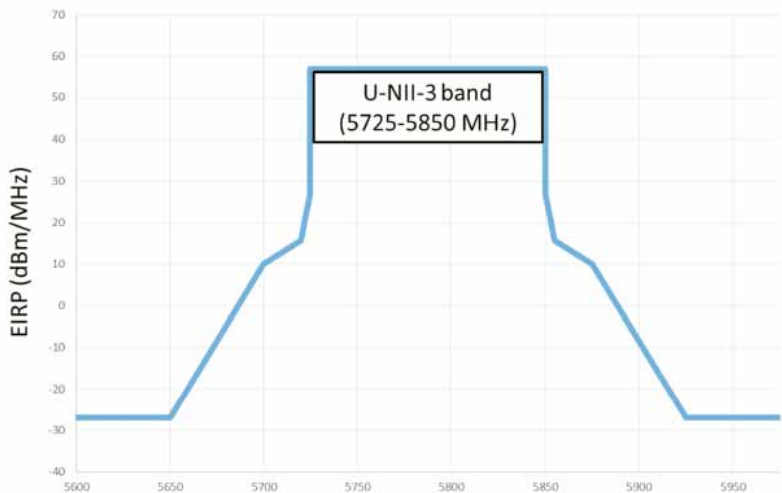
FCC Part 15 Subpart C Paragraph 15.209 (Restricted Band Emissions Limit)		
Frequency (MHz)	Distance (m)	Level (dB μ V/m)
0.009-0.490	300	2400/F(kHz)
0.490-1.705	30	24000/F(kHz)
1.705-30.0	30	30
30-88	3	100**
88-216	3	150**
216-960	3	200**
Above 960	3	500

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).

FCC Part 15 Subpart C Paragraph 15.205 (Restricted Band)

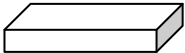
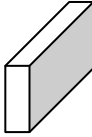
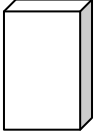
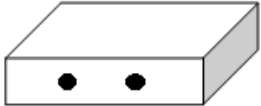
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)
0.090 – 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15
0.495 – 0.505	16.69475 – 16.69525	608 – 614	5.35 – 5.46
2.1735 – 2.1905	16.80425 – 16.80475	960 – 1240	7.25 – 7.75
4.125 – 4.128	25.5 – 25.67	1300 – 1427	8.025 – 8.5
4.17725 – 4.17775	37.5 – 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			

FCC Part 15 Subpart C Paragraph 15.407(5)(b) (Unrestricted Band Emissions Limit)		
Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m (dB μ V/m)
5150 - 5250	-27	68.3
5250 - 5350	-27	68.3
5470 - 5725	-27	68.3
FCC 16-24-A1		
Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)	
5725 - 5825	 U-NII-3 band (5725-5850 MHz)	

9.4. Test Procedure

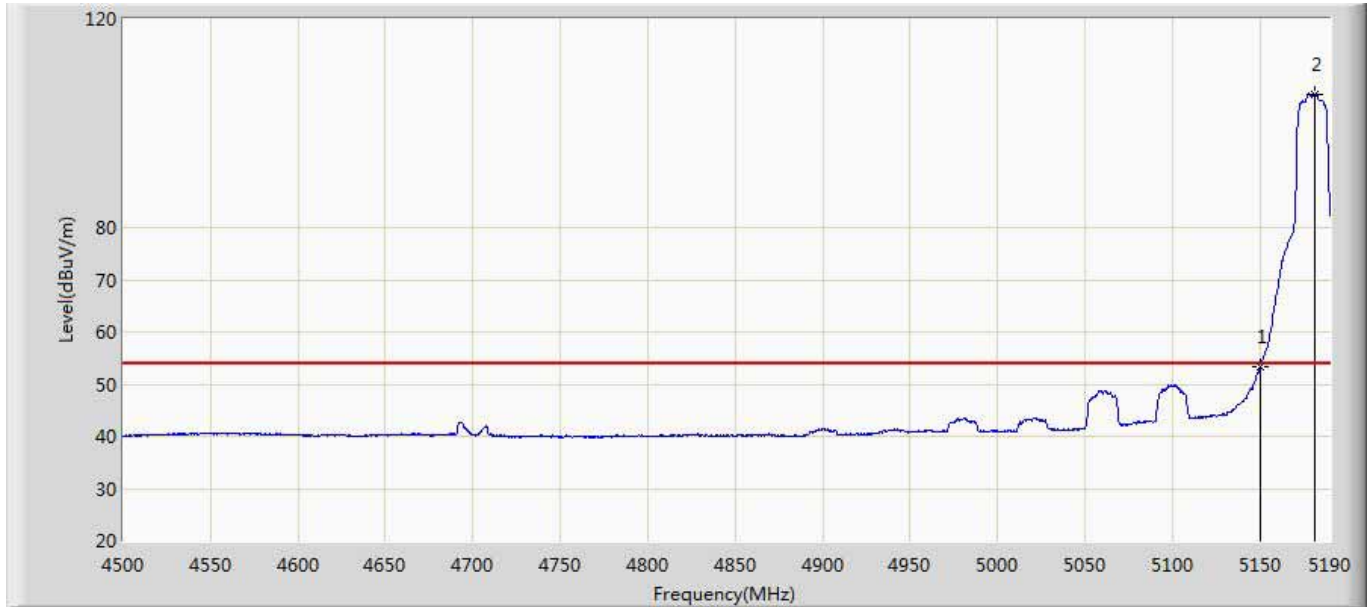
Test Method				
	References Rule		Chapter	Description
☐	ANSI C63.10		12.7.3	Emissions in non-restricted frequency bands
☒	ANSI C63.10		12.7.2	Emissions in restricted frequency bands
	☒	ANSI C63.10	12.7.5	Radiated emission measurements
	☒	ANSI C63.10	12.7.6	Procedure for peak unwanted emissions measurements above 1000 MHz
	☒	ANSI C63.10	12.7.7	Procedures for average unwanted emissions measurements above 1000 MHz
	☐	ANSI C63.10	12.7.7.2	Method AD (average detection)—primary method
	☒	ANSI C63.10	12.7.7.3	Method VB-A (Alternative)
	☒	ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
	☒	ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
	☒	ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz
☐	FCC KDB 789033 D02v01r04		G.2	Unwanted Emissions that fall Outside of the Restricted Bands
☐	FCC KDB 789033 D02v01r04		G.1	Unwanted Emissions in the Restricted Bands
	☐	FCC KDB 789033 D02v01r04	G.4	Procedure for Unwanted Emissions Measurements below 1000 MHz
	☐	FCC KDB 789033 D02v01r04	G.5	Procedure for Unwanted Maximum Emissions Measurements above 1000 MHz
	☐	FCC KDB 789033 D02v01r04	G.6	Procedures for Average Unwanted Emissions Measurements above 1000 MHz
	☐	FCC KDB 789033 D02v01r04	G.6.c	Method AD (Average detection)—primary method
	☐	FCC KDB 789033 D02v01r04	G.6.d	Method VB (Averaging using reduced video bandwidth): Alternative method.

9.5. EUT test Axis definition

Item	Peak power spectral density			
Device Category	☐	Outdoor AP		
	☒	Indoor AP		
	☐	Fixed point-to-point AP		
	☐	Outdoor fixed point-to-multipoint AP		
	☐	Client		
Test mode	Mode 1-6			
Test method	☒	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis ☒	Worst Axis ☐	Worst Axis ☐
	☐	Conducted		
	☐	Chain 0		
				
	☐	Chain 0	Chain 1	
				
	☐	Chain 0	Chain 1	Chain 2
				

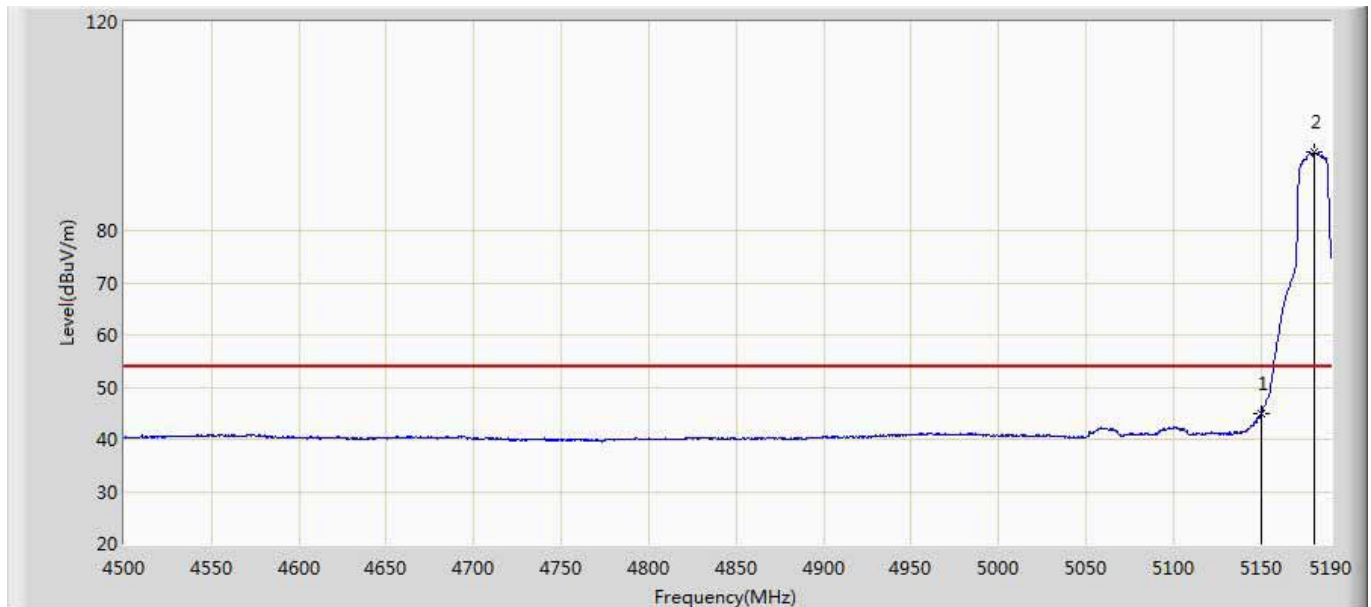
9.6. Test Result

Site: AC5	Time: 2017/05/10 - 08:22
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5180MHZ by 802.11a	



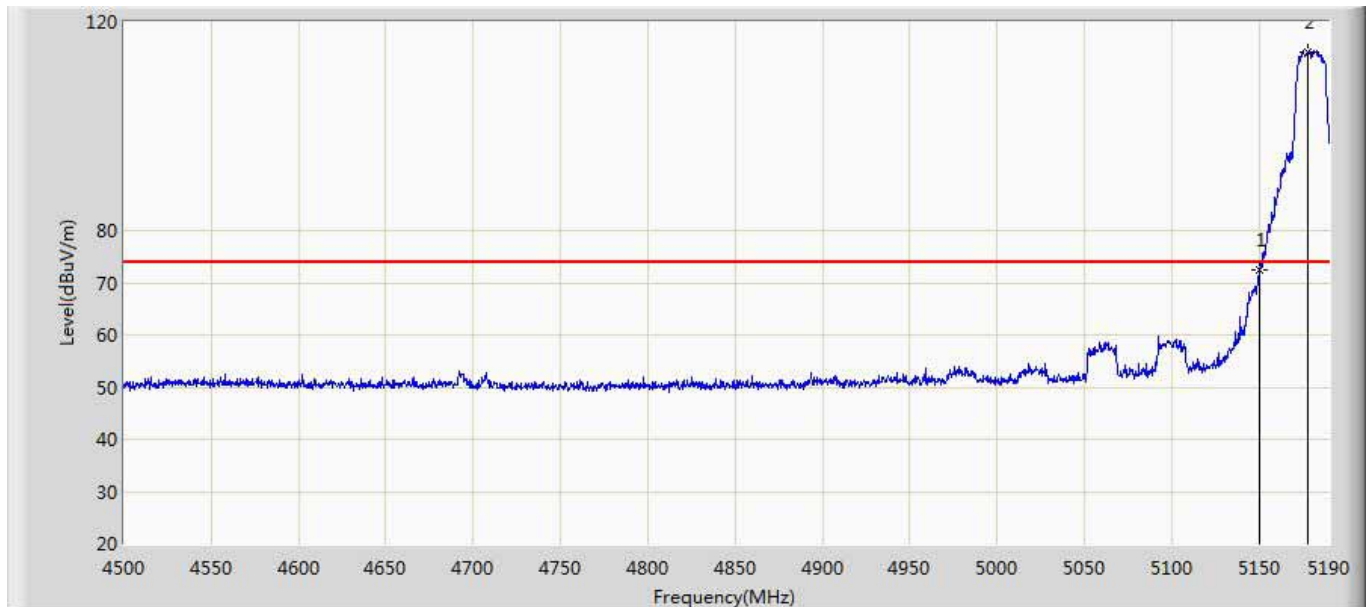
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	53.223	13.689	-0.777	54.000	39.534	AV
2	*	5181.030	105.563	66.002	51.563	54.000	39.561	AV

Site: AC5	Time: 2017/05/17 - 08:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5180MHZ by 802.11a	



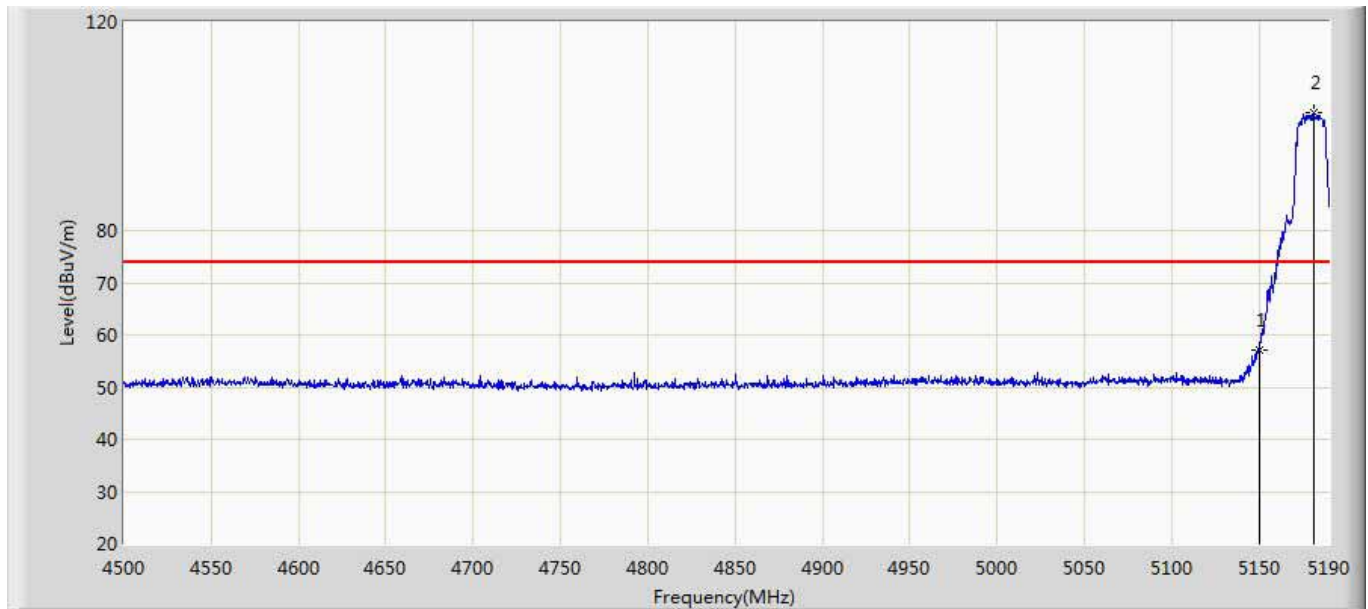
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	45.014	5.480	-8.986	54.000	39.534	AV
2	*	5180.340	95.090	55.523	41.090	54.000	39.566	AV

Site: AC5	Time: 2017/05/17 - 08:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5180MHZ by 802.11a	



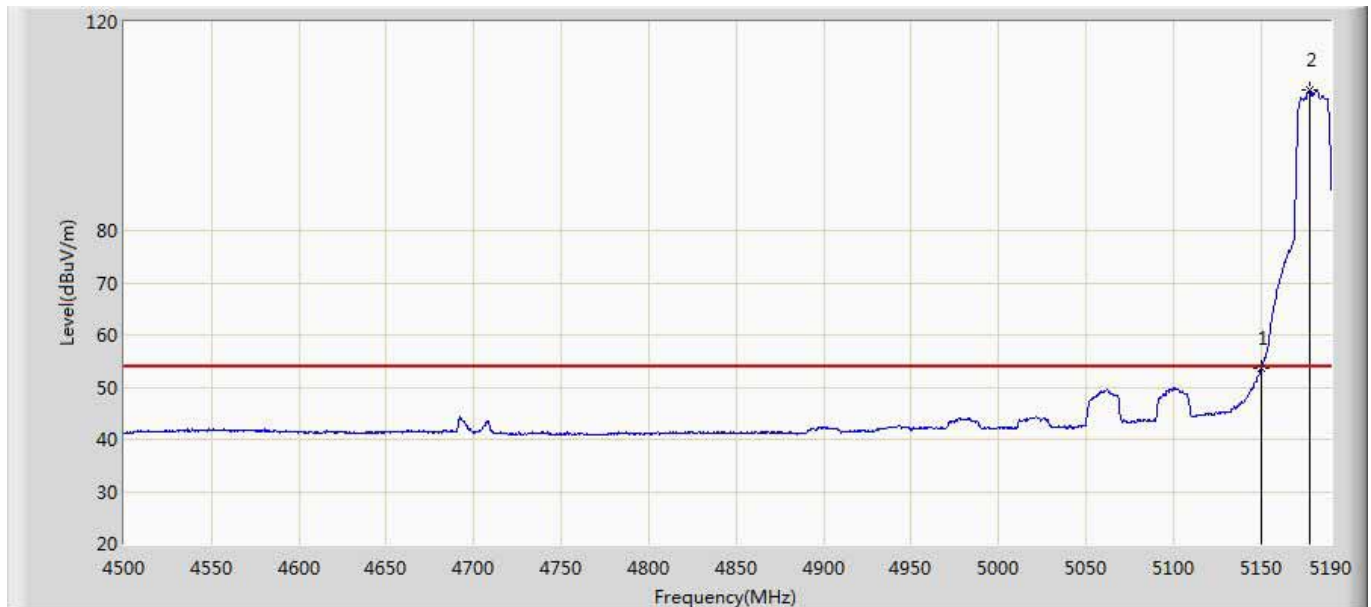
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	72.377	32.843	-1.623	74.000	39.534	PK
2	*	5177.925	114.306	74.721	40.306	74.000	39.585	PK

Site: AC5	Time: 2017/05/17 - 08:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5180MHZ by 802.11a	



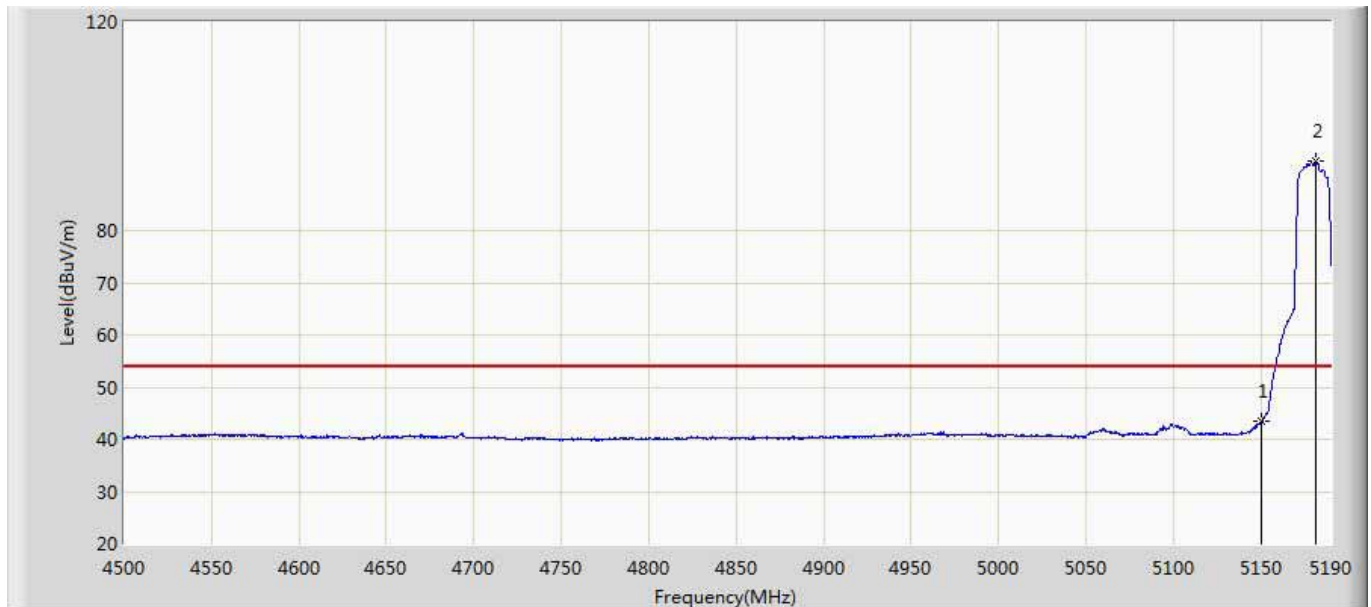
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	57.152	17.618	-16.848	74.000	39.534	PK
2	*	5181.030	102.717	63.156	28.717	74.000	39.561	PK

Site: AC5	Time: 2017/05/11 - 19:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5180MHZ by 802.11n20	



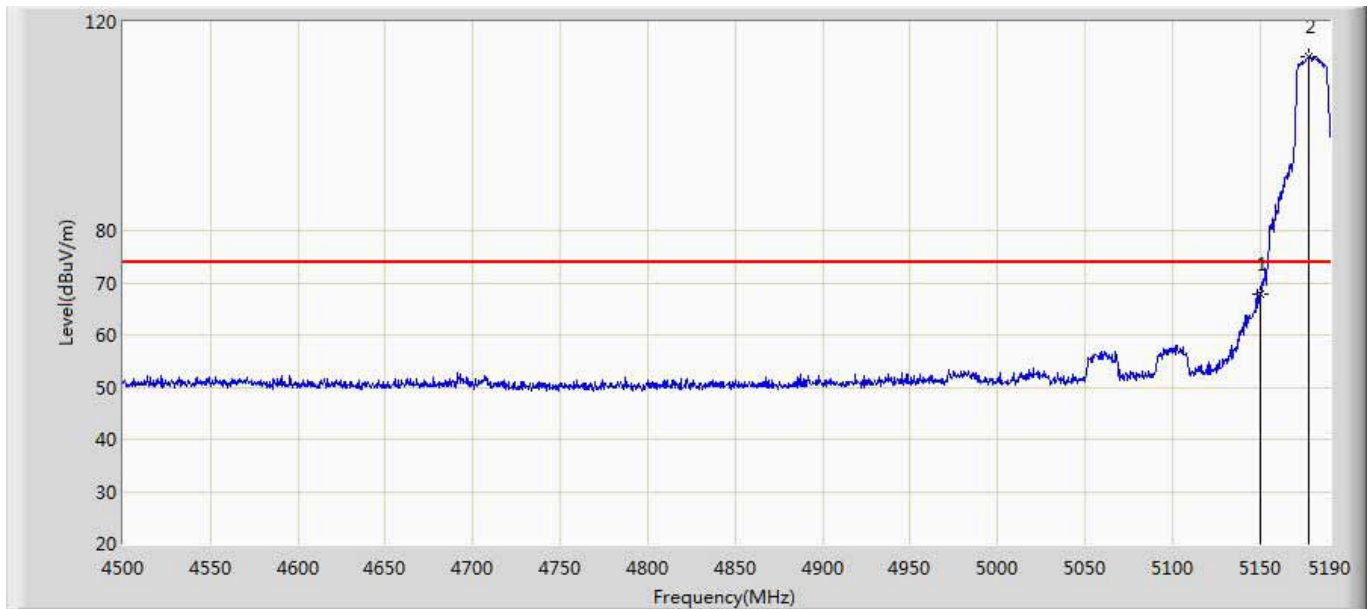
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	53.543	14.009	-0.457	54.000	39.534	AV
2	*	5178.270	106.934	67.352	52.934	54.000	39.582	AV

Site: AC5	Time: 2017/05/11 - 19:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5180MHZ by 802.11n20	



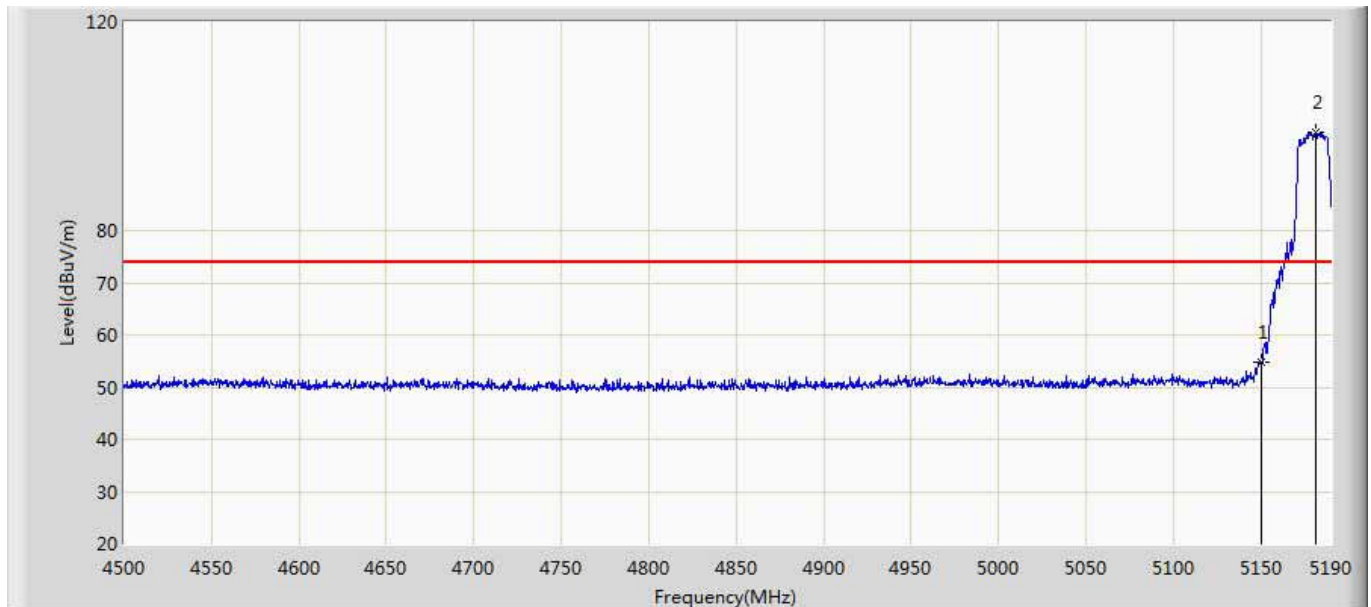
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	43.471	3.937	-10.529	54.000	39.534	AV
2	*	5181.375	93.299	53.740	39.299	54.000	39.558	AV

Site: AC5	Time: 2017/05/11 - 19:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5180MHZ by 802.11n20	



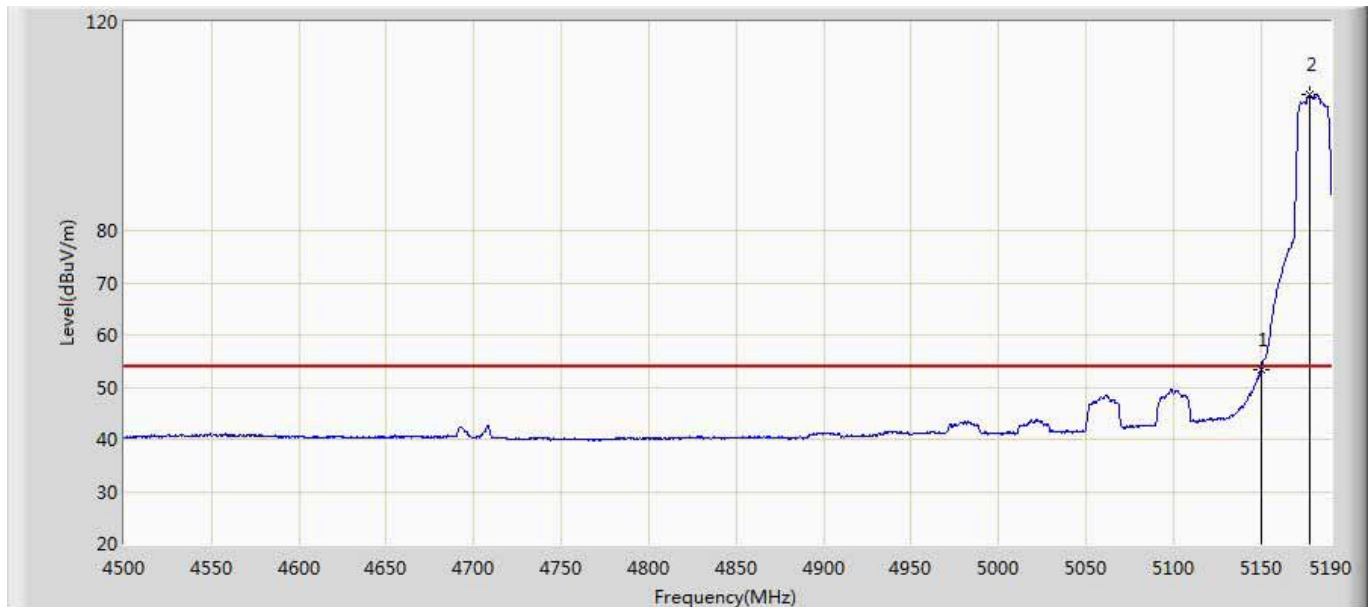
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	67.716	28.182	-6.284	74.000	39.534	PK
2	*	5178.270	113.352	73.769	39.352	74.000	39.582	PK

Site: AC5	Time: 2017/05/11 - 19:10
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5180MHZ by 802.11n20	



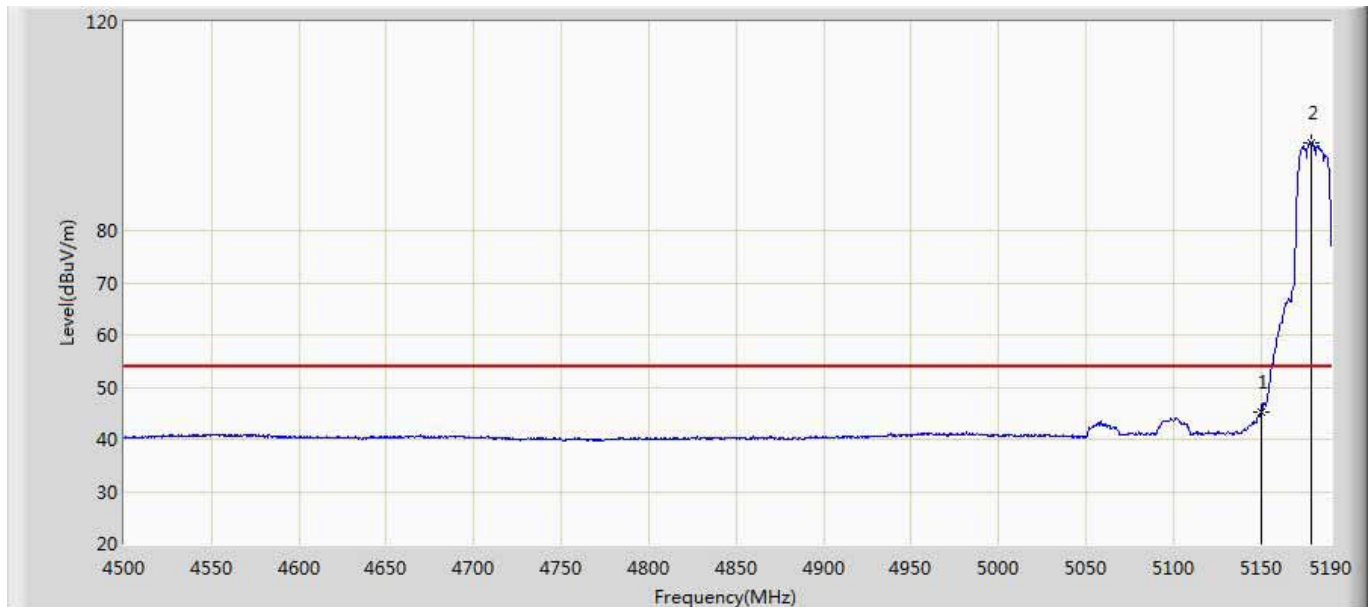
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	54.789	15.255	-19.211	74.000	39.534	PK
2	*	5181.375	98.865	59.306	24.865	74.000	39.558	PK

Site: AC5	Time: 2017/05/11 - 19:13
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5180MHZ by 802.11ac20	



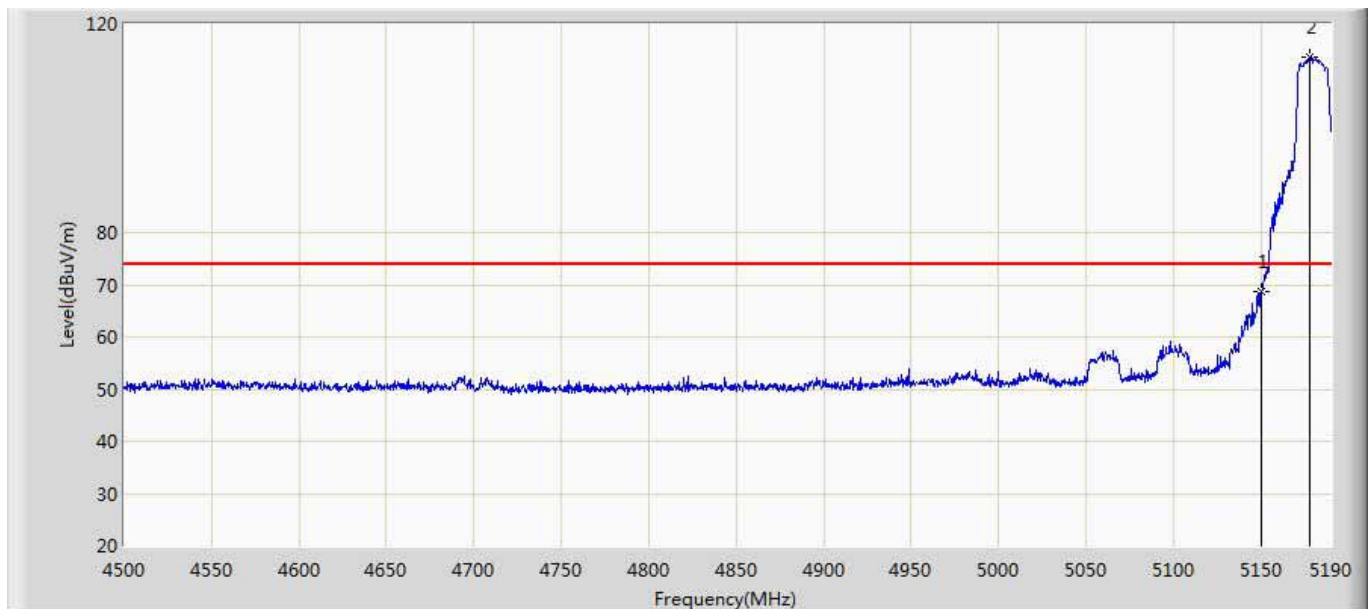
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	53.261	13.727	-0.739	54.000	39.534	AV
2	*	5178.270	106.009	66.426	52.009	54.000	39.582	AV

Site: AC5	Time: 2017/05/11 - 19:15
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5180MHZ by 802.11ac20	



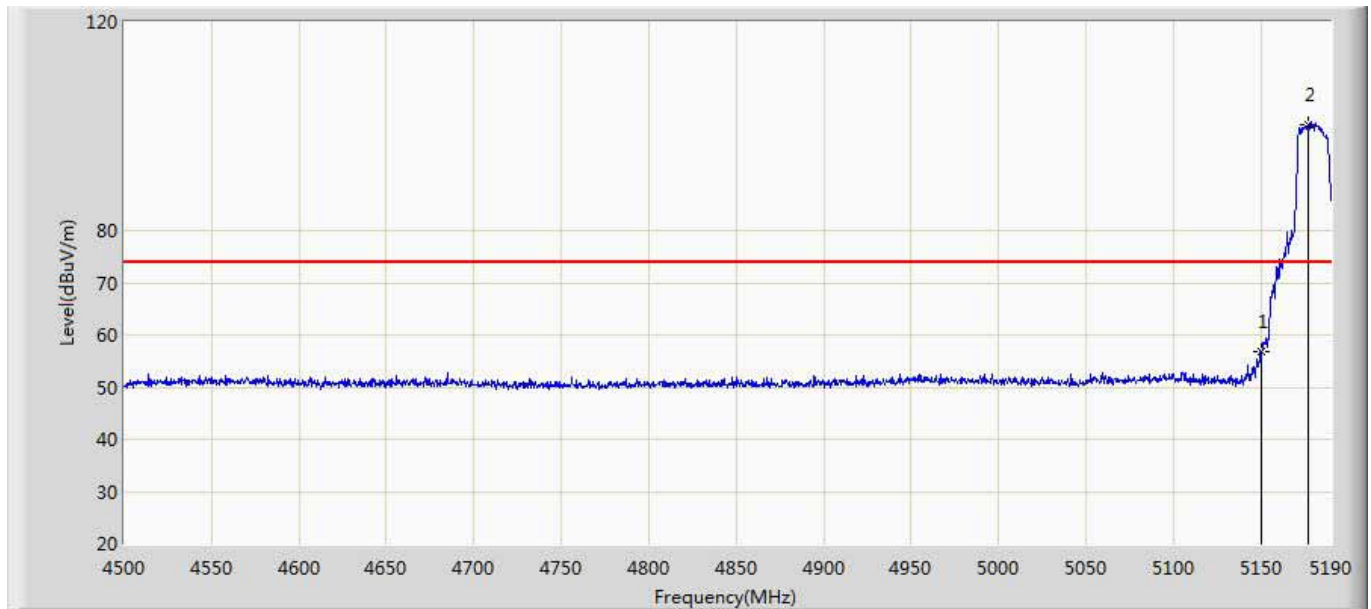
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	45.133	5.599	-8.867	54.000	39.534	AV
2	*	5178.960	96.877	57.300	42.877	54.000	39.577	AV

Site: AC5	Time: 2017/05/11 - 19:20
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5180MHZ by 802.11ac20	



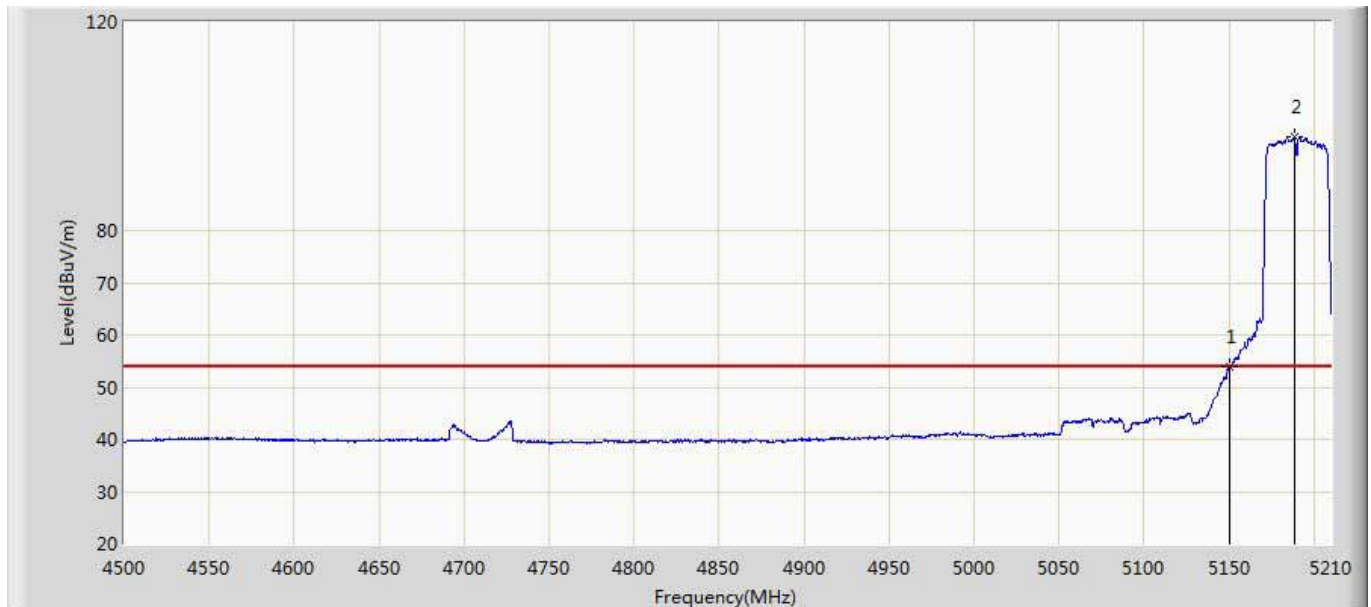
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	68.617	29.083	-5.383	74.000	39.534	PK
2	*	5177.925	113.560	73.975	39.560	74.000	39.585	PK

Site: AC5	Time: 2017/05/11 - 19:17
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5180MHZ by 802.11ac20	



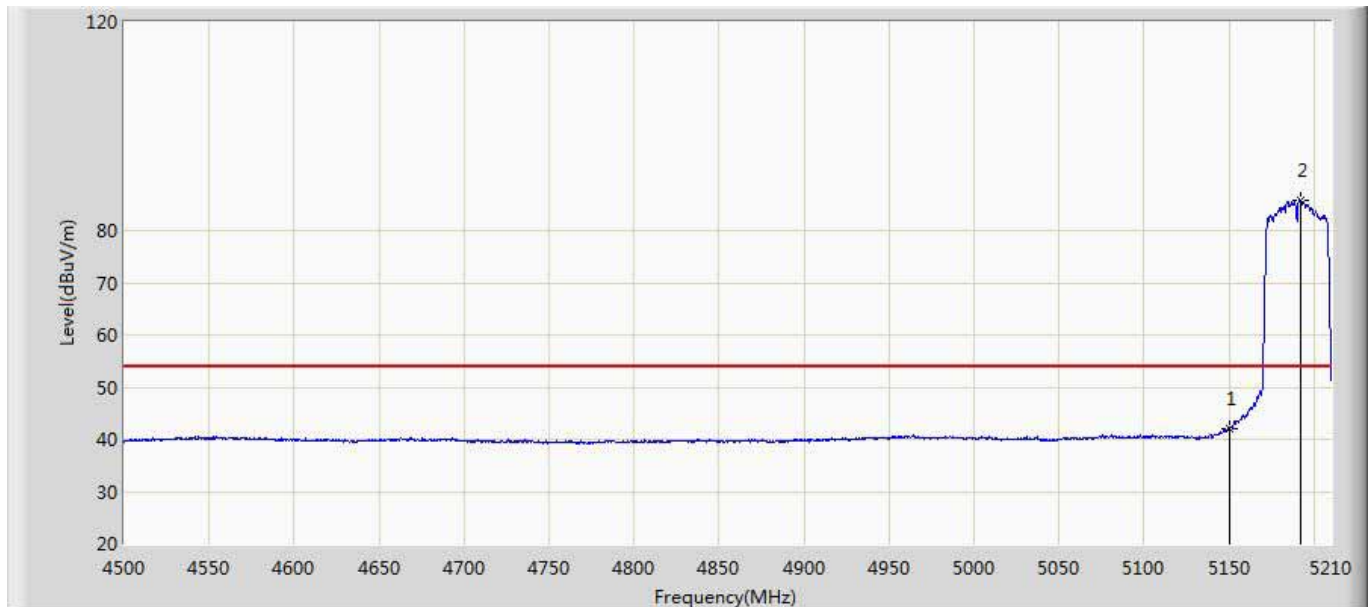
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	56.861	17.327	-17.139	74.000	39.534	PK
2	*	5176.890	100.304	60.711	26.304	74.000	39.594	PK

Site: AC5	Time: 2017/05/10 - 08:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5190MHZ by 802.11n40	



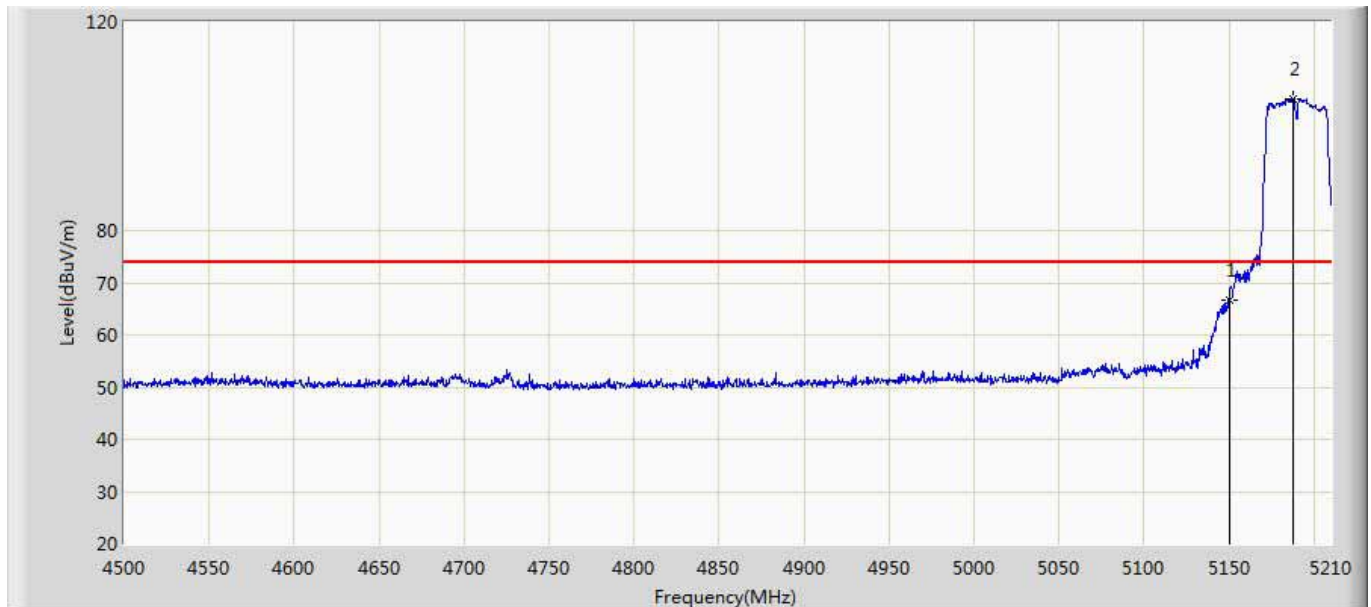
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	53.799	14.265	-0.201	54.000	39.534	AV
2	*	5188.345	97.849	58.238	43.849	54.000	39.611	AV

Site: AC5	Time: 2017/05/11 - 19:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5190MHZ by 802.11n40	



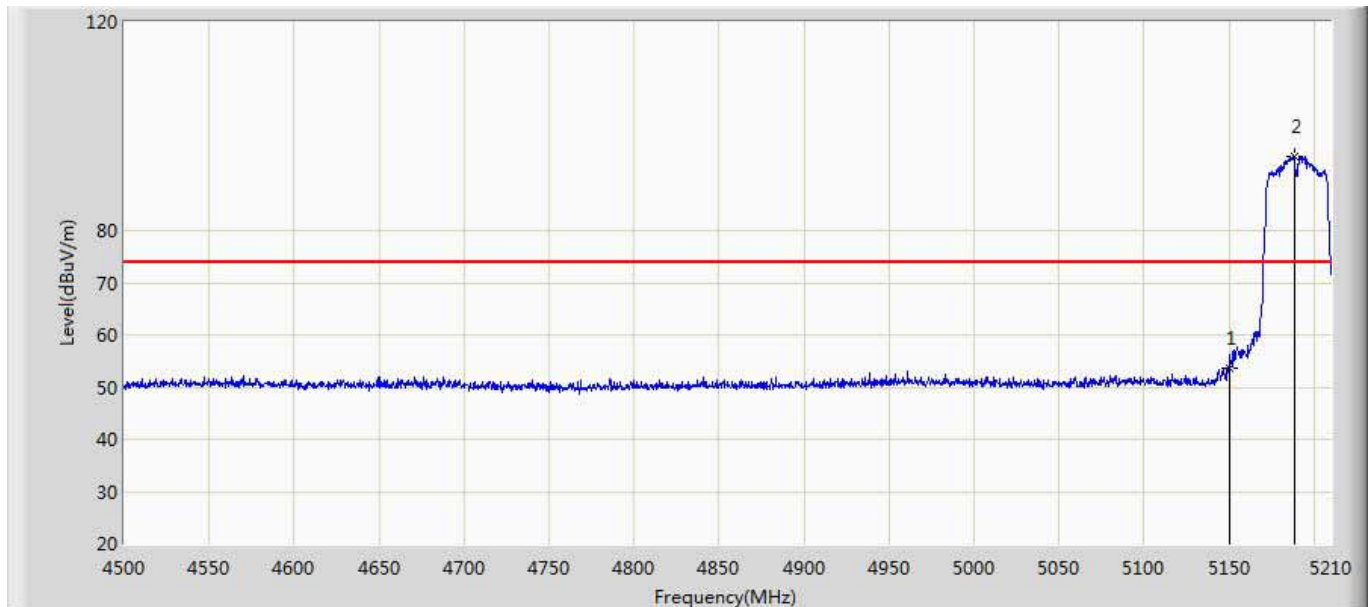
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	41.986	2.452	-12.014	54.000	39.534	AV
2	*	5191.895	85.858	46.214	31.858	54.000	39.644	AV

Site: AC5	Time: 2017/05/11 - 19:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5190MHZ by 802.11n40	



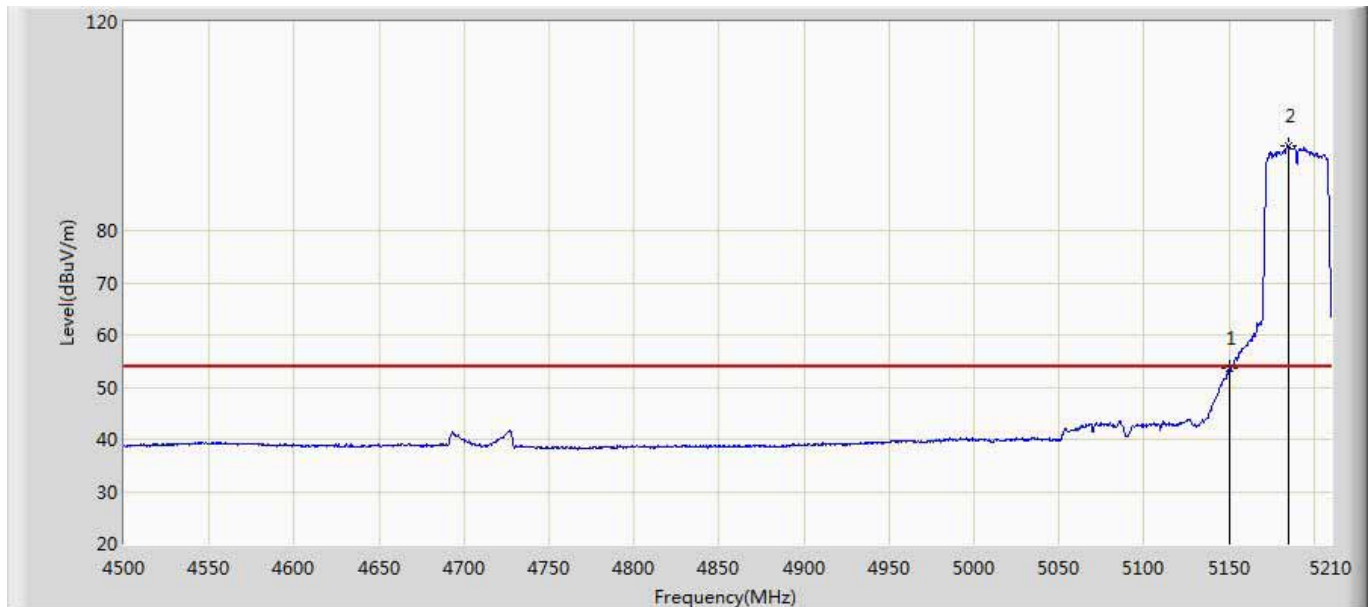
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	66.638	27.104	-7.362	74.000	39.534	PK
2	*	5187.990	105.274	65.666	31.274	74.000	39.608	PK

Site: AC5	Time: 2017/05/11 - 19:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5190MHZ by 802.11n40	



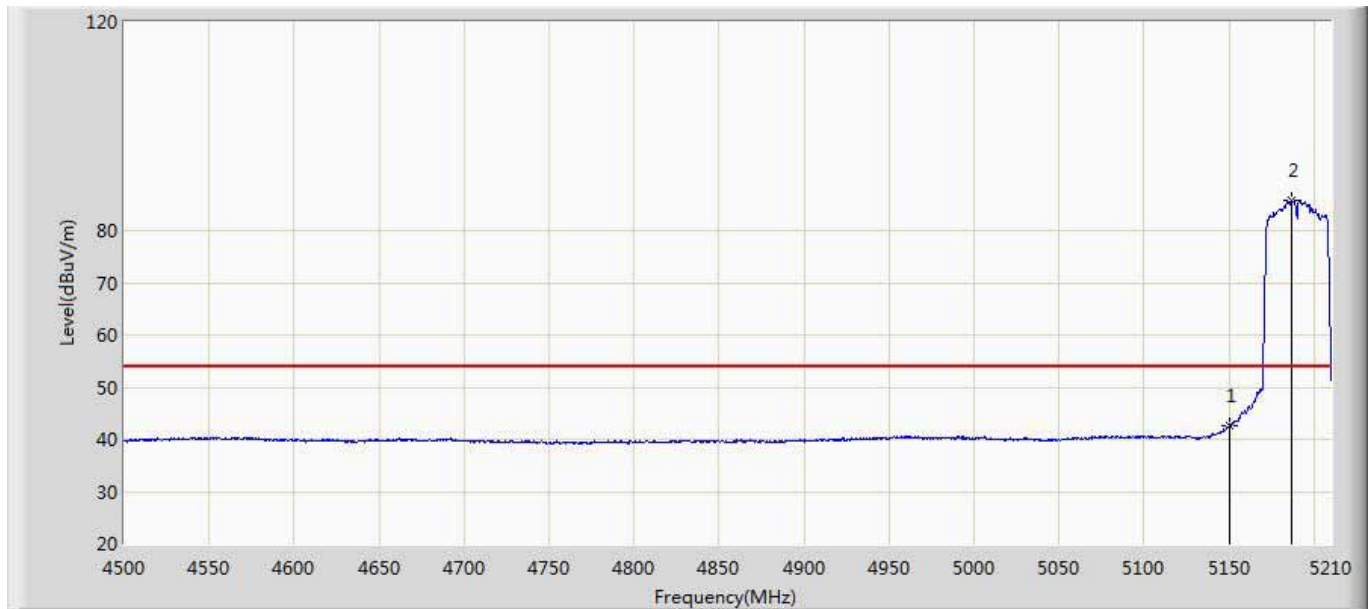
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	53.614	14.080	-20.386	74.000	39.534	PK
2	*	5188.345	94.216	54.605	20.216	74.000	39.611	PK

Site: AC5	Time: 2017/05/11 - 19:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5190MHZ by 802.11ac40	



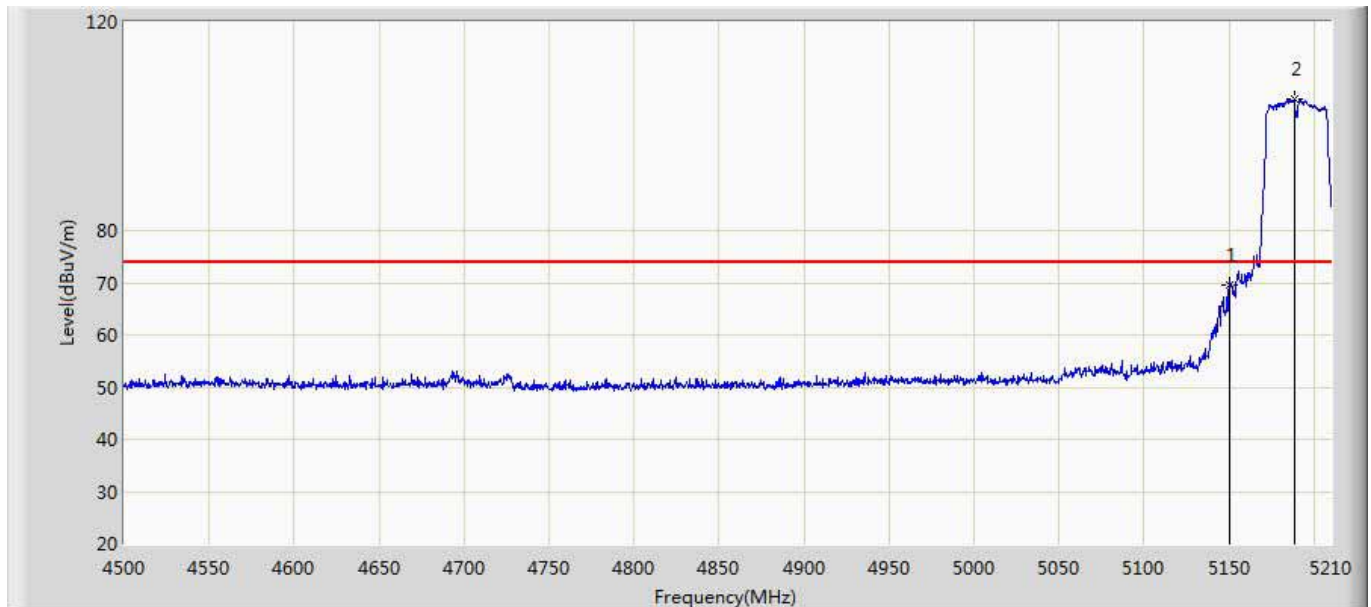
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	53.755	14.221	-0.245	54.000	39.534	AV
2	*	5184.795	96.228	56.649	42.228	54.000	39.579	AV

Site: AC5	Time: 2017/05/11 - 19:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5190MHZ by 802.11ac40	



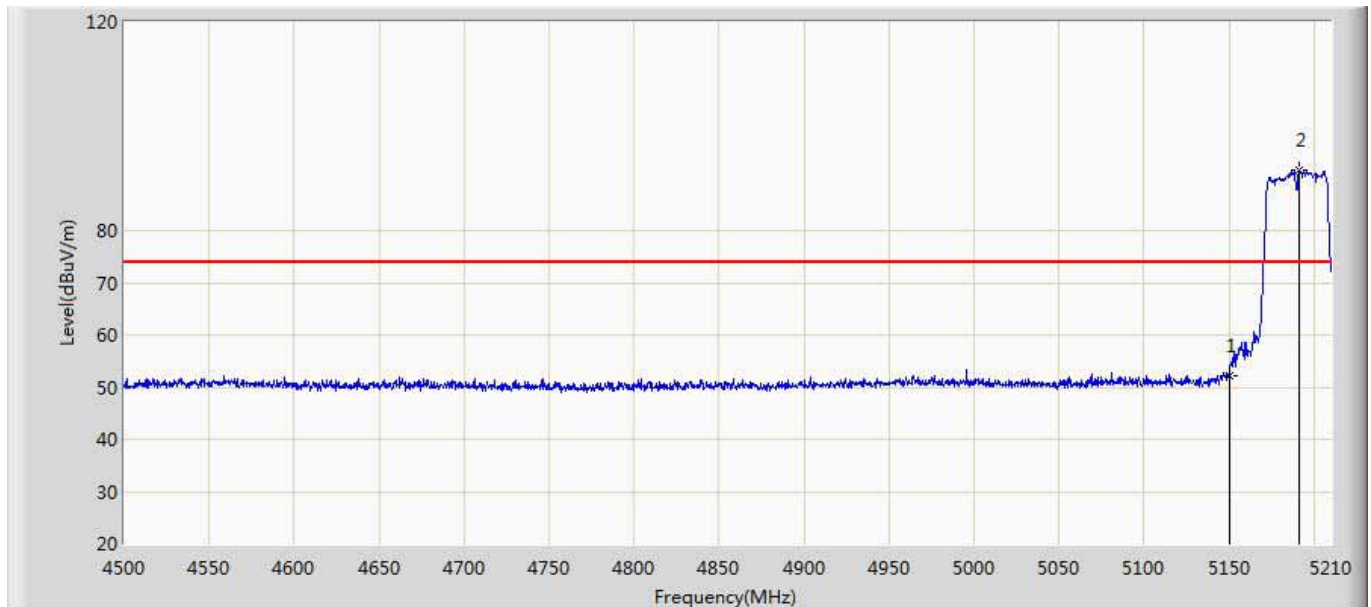
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	42.524	2.990	-11.476	54.000	39.534	AV
2	*	5186.570	85.778	46.183	31.778	54.000	39.596	AV

Site: AC5	Time: 2017/05/11 - 19:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5190MHZ by 802.11ac40	



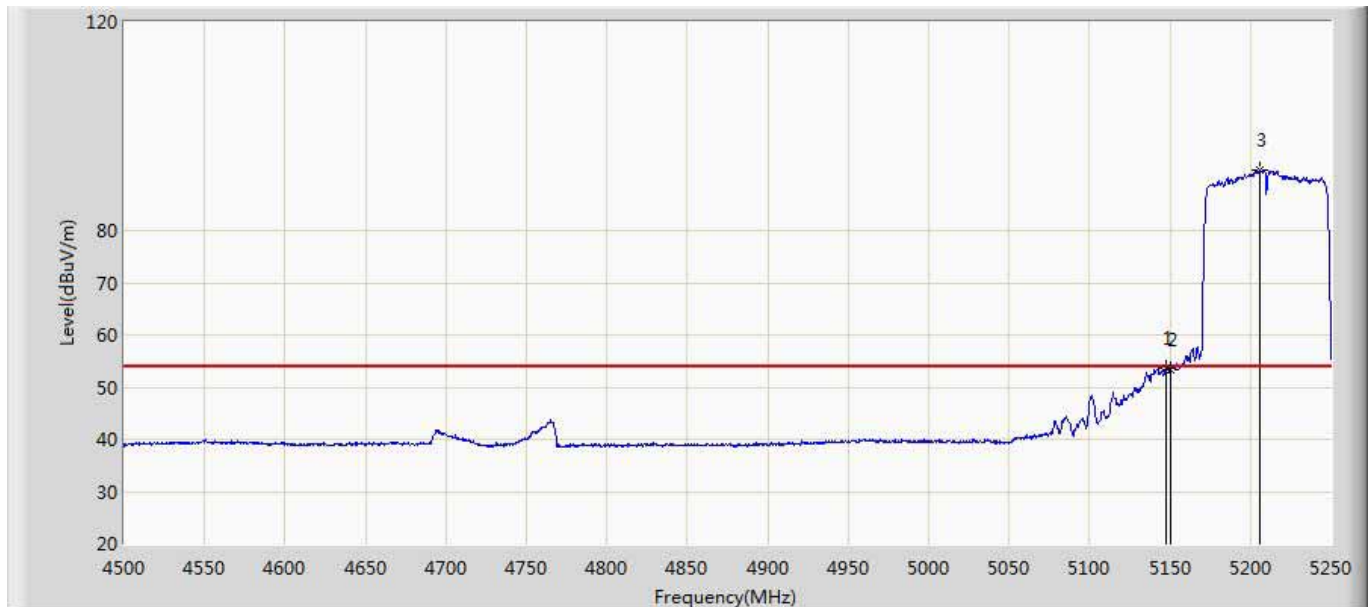
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	69.537	30.003	-4.463	74.000	39.534	PK
2	*	5188.345	105.101	65.490	31.101	74.000	39.611	PK

Site: AC5	Time: 2017/05/11 - 19:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5190MHZ by 802.11ac40	



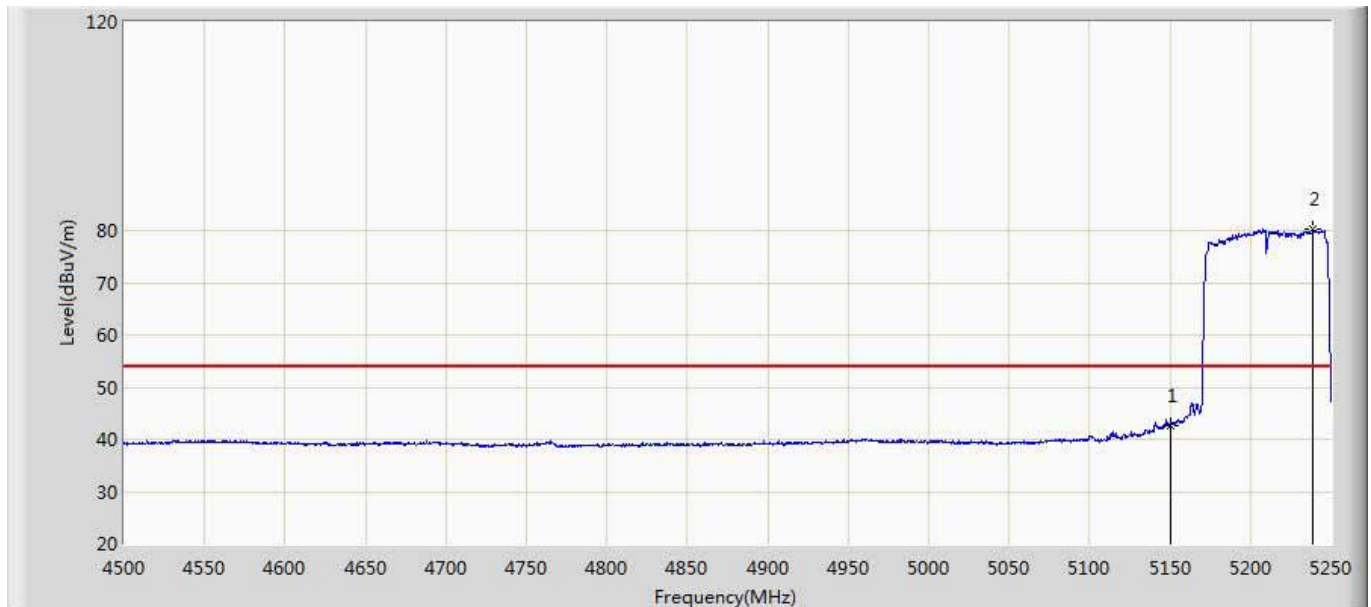
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	52.220	12.686	-21.780	74.000	39.534	PK
2	*	5191.540	91.605	51.964	17.605	74.000	39.641	PK

Site: AC5	Time: 2017/05/10 - 08:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5210MHZ by 802.11ac80	



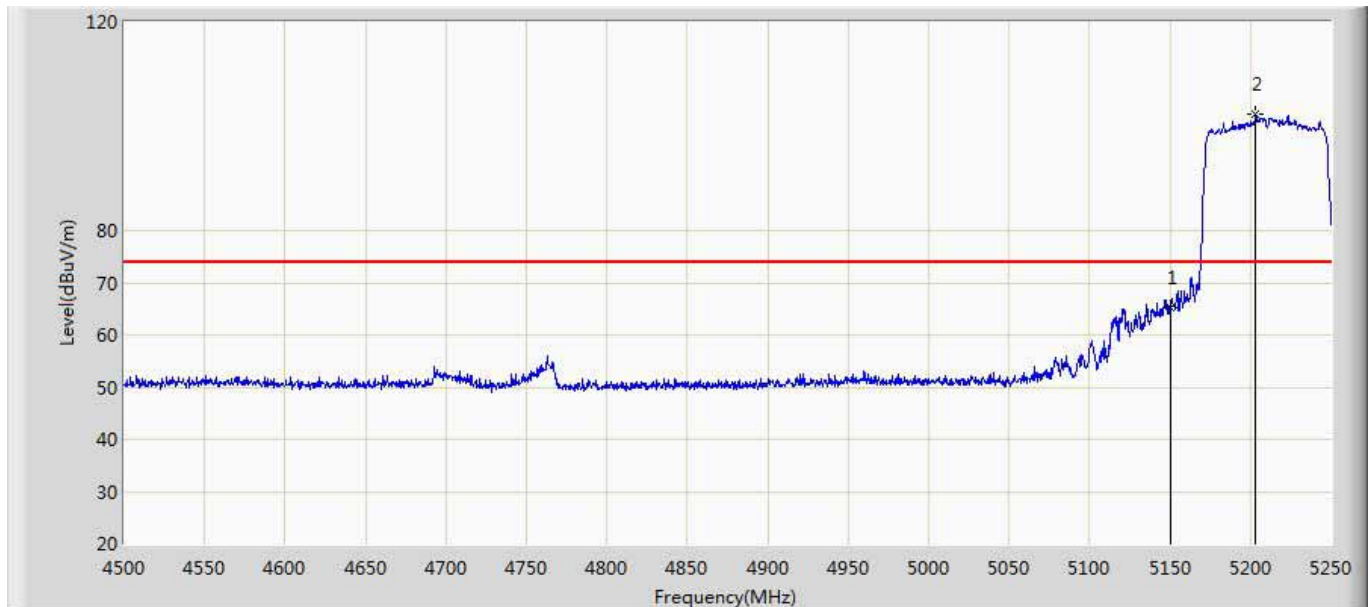
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5148.000	53.545	14.031	-0.455	54.000	39.514	AV
2		5150.000	53.410	13.876	-0.590	54.000	39.534	AV
3	*	5206.125	91.621	51.912	37.621	54.000	39.709	AV

Site: AC5	Time: 2017/05/17 - 08:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5210MHZ by 802.11ac80	



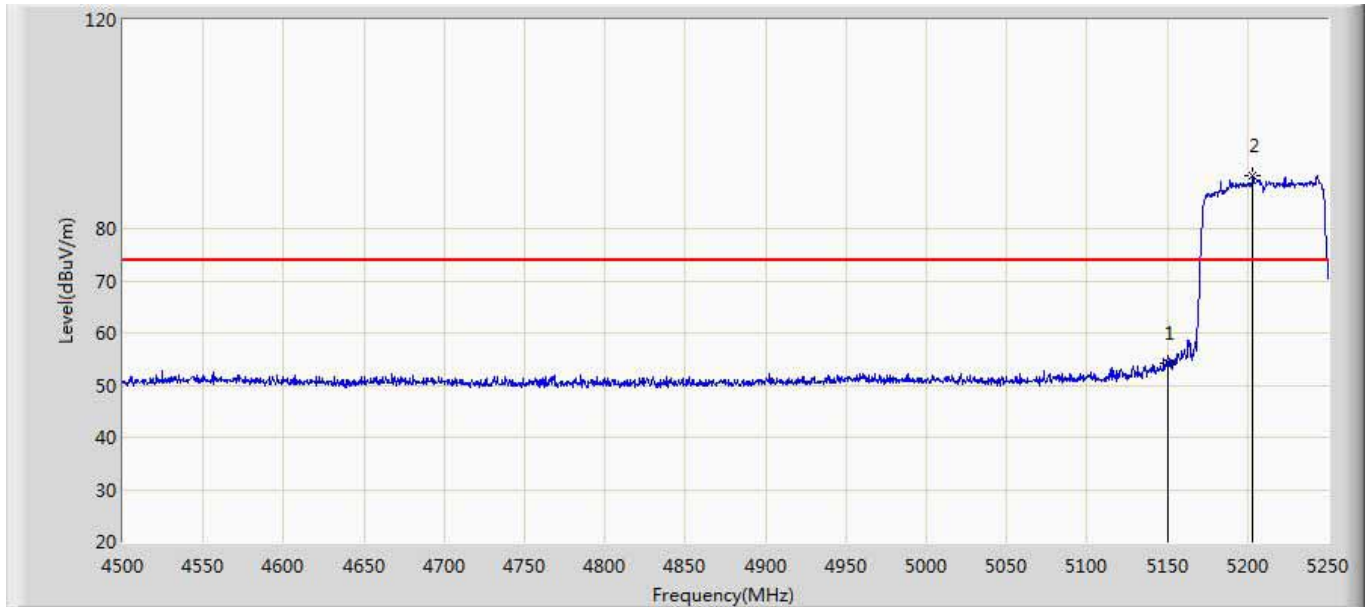
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	42.631	3.097	-11.369	54.000	39.534	AV
2	*	5239.125	80.163	40.451	26.163	54.000	39.712	AV

Site: AC5	Time: 2017/05/17 - 08:54
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5210MHZ by 802.11ac80	



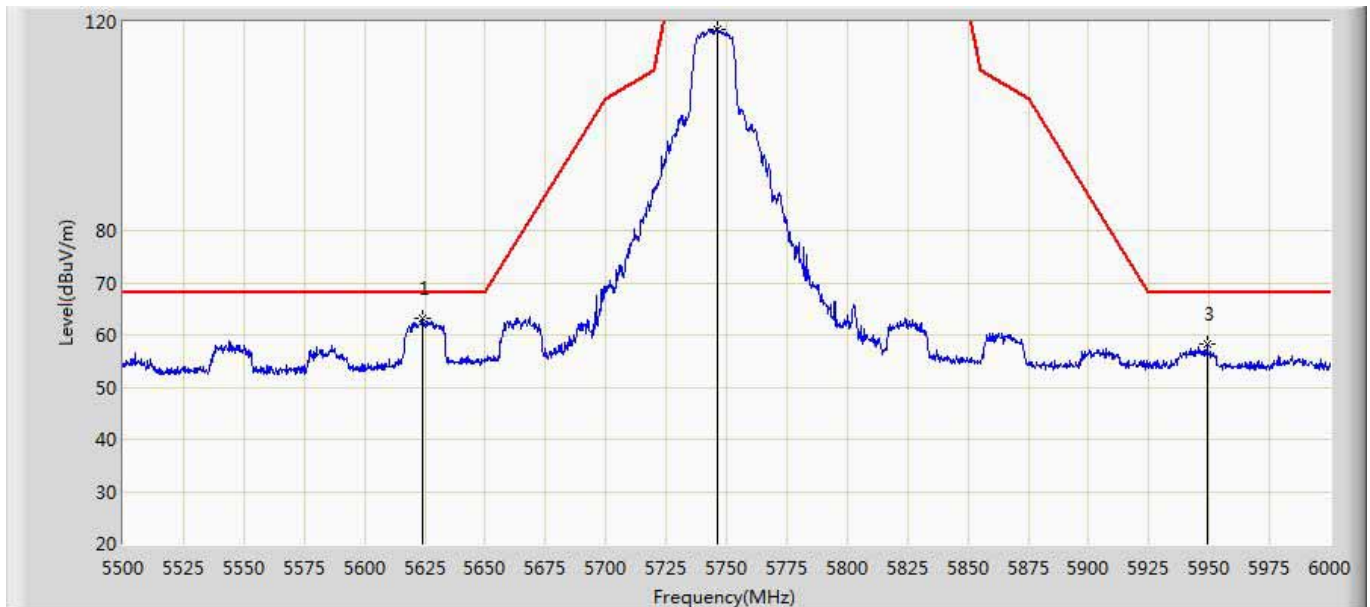
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	65.106	25.572	-8.894	74.000	39.534	PK
2	*	5203.125	102.336	62.627	28.336	74.000	39.709	PK

Site: AC5	Time: 2017/05/17 - 08:52
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5210MHZ by 802.11ac80	



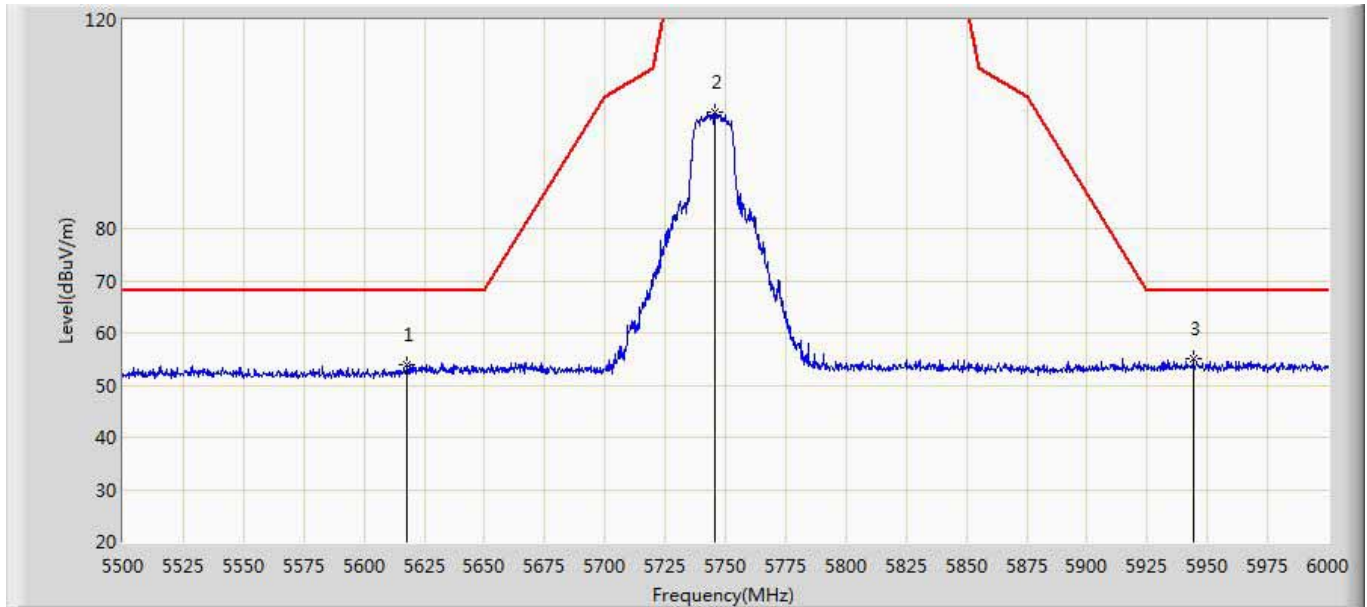
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	54.229	14.695	-19.771	74.000	39.534	PK
2	*	5203.125	90.189	50.480	16.189	74.000	39.709	PK

Site: AC5	Time: 2017/05/17 - 08:57
Limit: FCC-15.407	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5745MHZ by 802.11a	



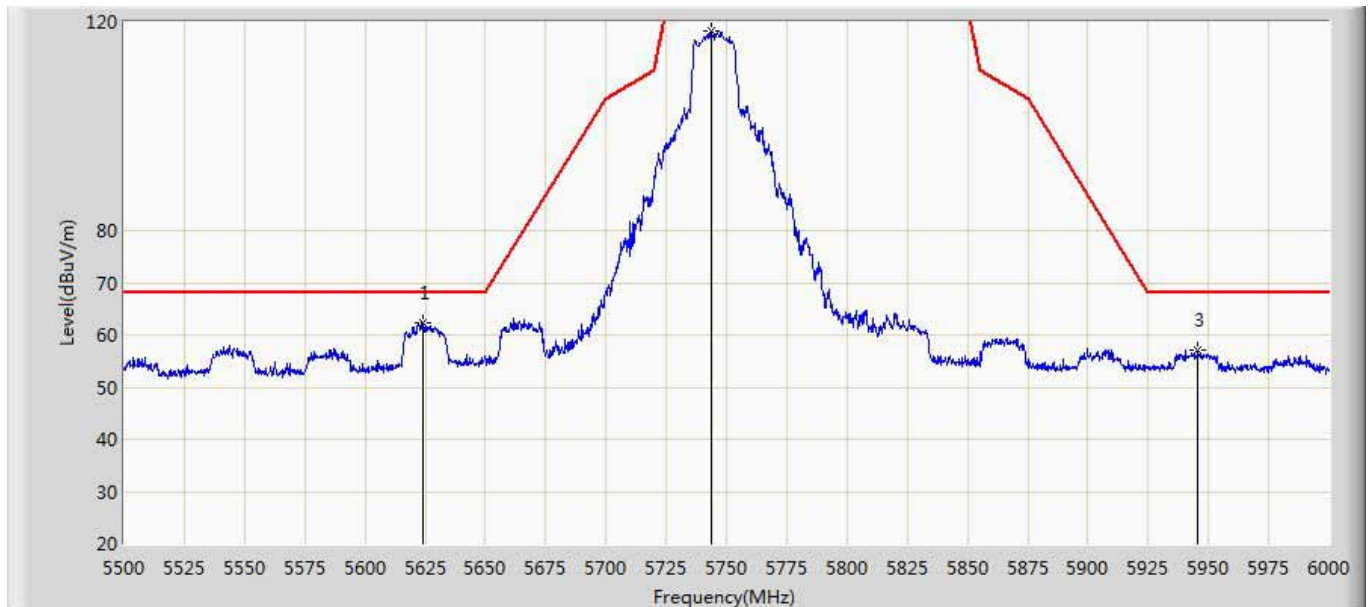
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5623.750	63.066	22.508	-5.134	68.200	40.558	PK
2	*	5746.250	118.636	78.047	-3.564	122.200	40.590	PK
3		5949.000	58.125	17.083	-10.075	68.200	41.042	PK

Site: AC5	Time: 2017/05/17 - 09:02
Limit: FCC-15.407	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5745MHZ by 802.11a	



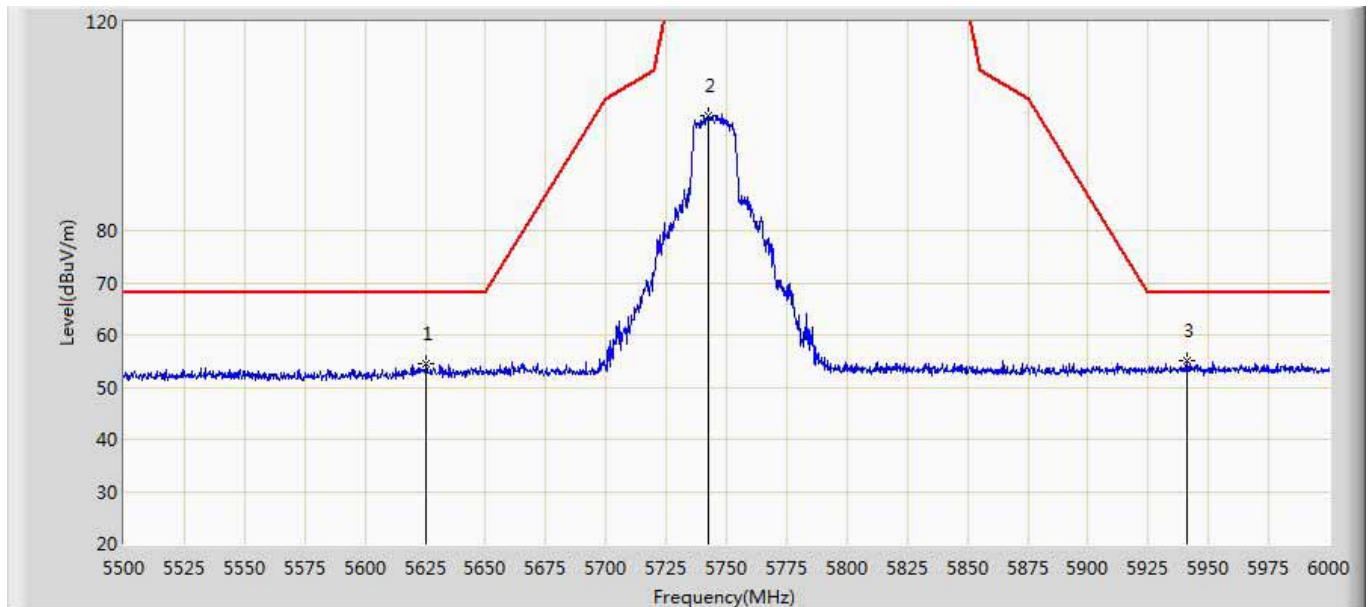
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5617.750	54.036	13.575	-14.164	68.200	40.461	PK
2		5745.750	102.241	61.653	-19.959	122.200	40.588	PK
3	*	5944.250	55.148	14.127	-13.052	68.200	41.021	PK

Site: AC5	Time: 2017/05/17 - 09:04
Limit: FCC-15.407	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5745MHZ by 802.11n20	



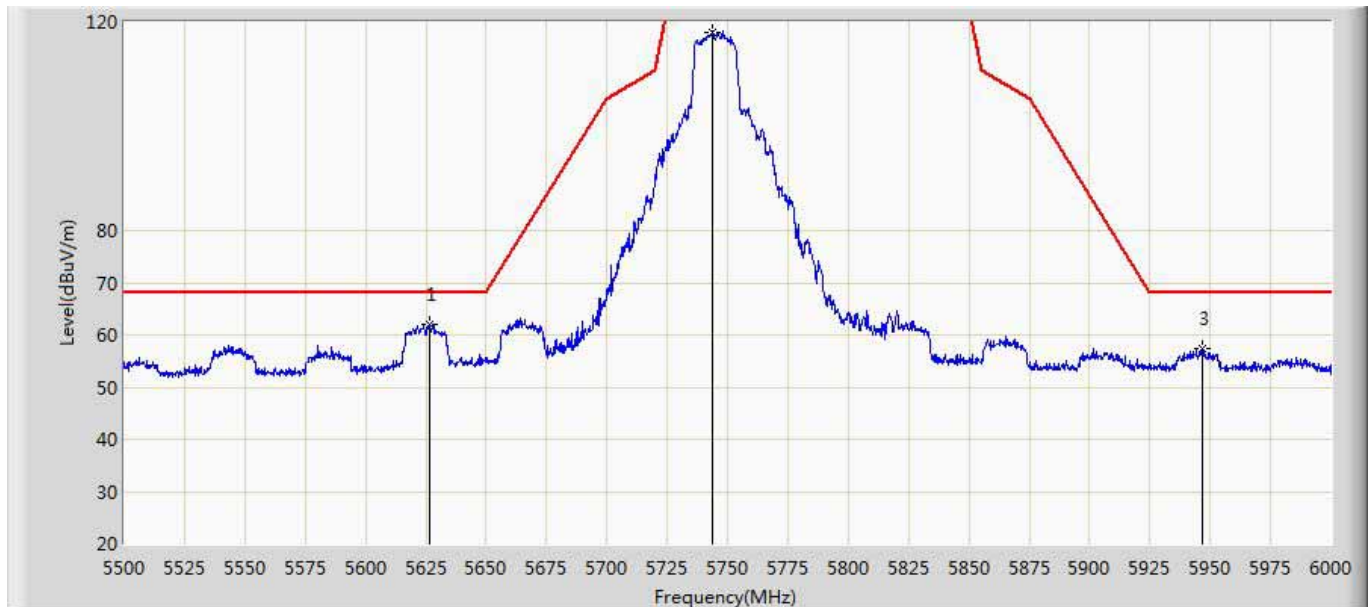
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5624.250	62.276	21.717	-5.924	68.200	40.558	PK
2	*	5743.750	118.299	77.715	-3.901	122.200	40.584	PK
3		5945.500	57.183	16.151	-11.017	68.200	41.033	PK

Site: AC5	Time: 2017/05/17 - 09:05
Limit: FCC-15.407	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5745MHZ by 802.11n20	



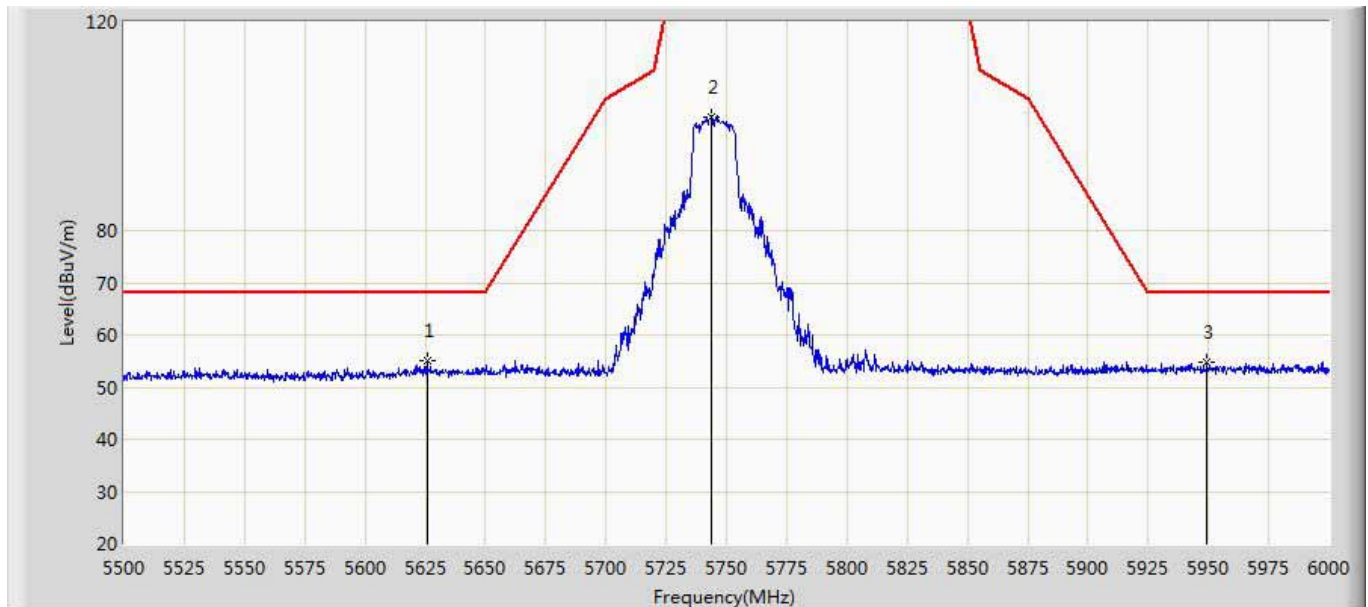
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5625.500	54.396	13.853	-13.804	68.200	40.543	PK
2		5742.500	101.911	61.331	-20.289	122.200	40.579	PK
3	*	5941.250	55.064	14.071	-13.136	68.200	40.993	PK

Site: AC5	Time: 2017/05/17 - 09:07
Limit: FCC-15.407	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5745MHZ by 802.11ac20	



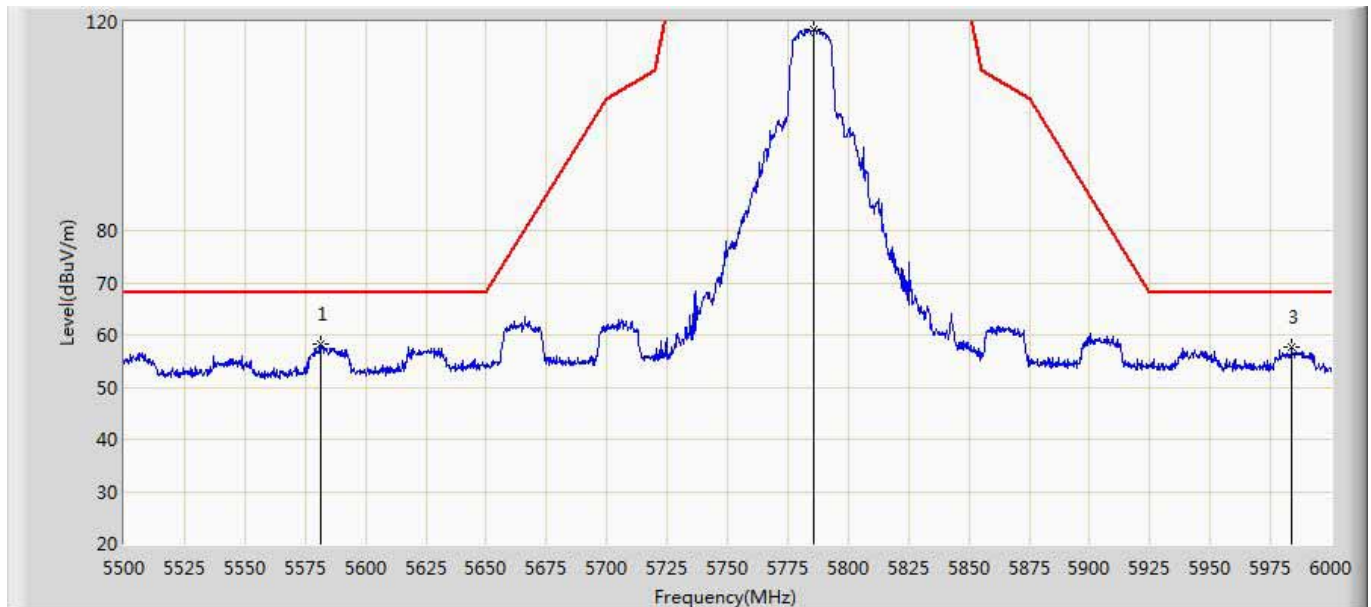
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5626.750	62.120	21.593	-6.080	68.200	40.528	PK
2	*	5743.500	117.993	77.410	-4.207	122.200	40.583	PK
3		5946.500	57.279	16.237	-10.921	68.200	41.041	PK

Site: AC5	Time: 2017/05/17 - 09:10
Limit: FCC-15.407	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5745MHZ by 802.11ac20	



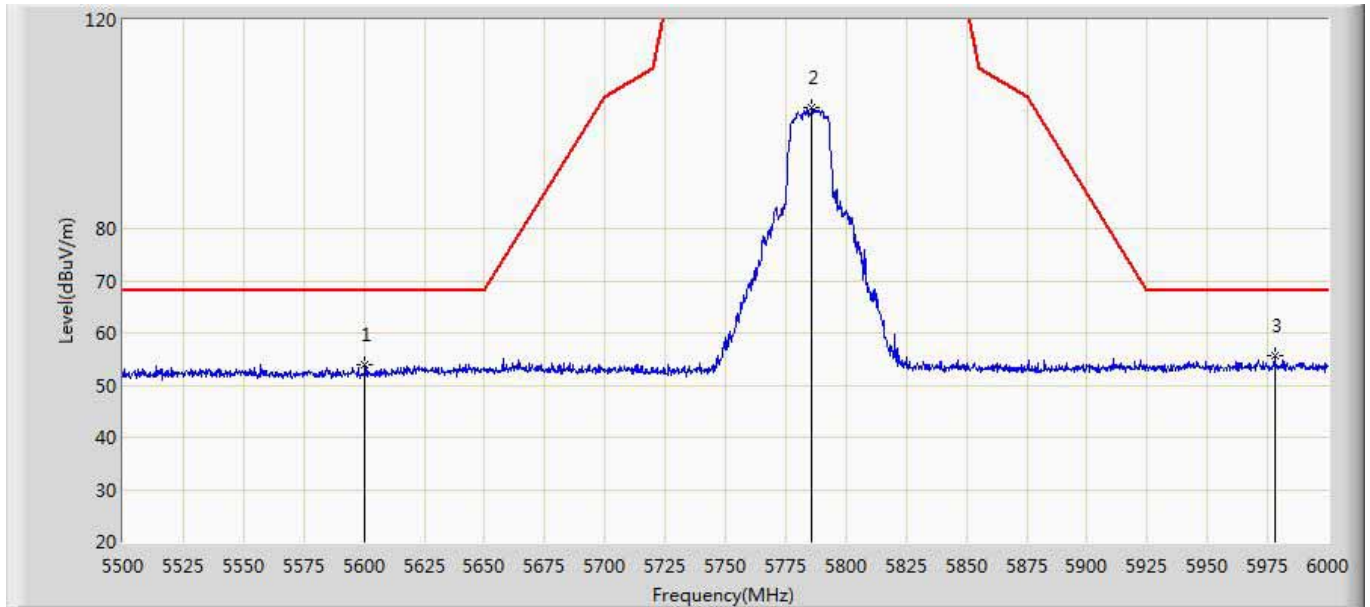
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5625.750	55.194	14.654	-13.006	68.200	40.539	PK
2		5743.750	101.851	61.267	-20.349	122.200	40.584	PK
3		5949.500	54.791	13.750	-13.409	68.200	41.041	PK

Site: AC5	Time: 2017/05/17 - 09:13
Limit: FCC-15.407	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5785MHZ by 802.11a	



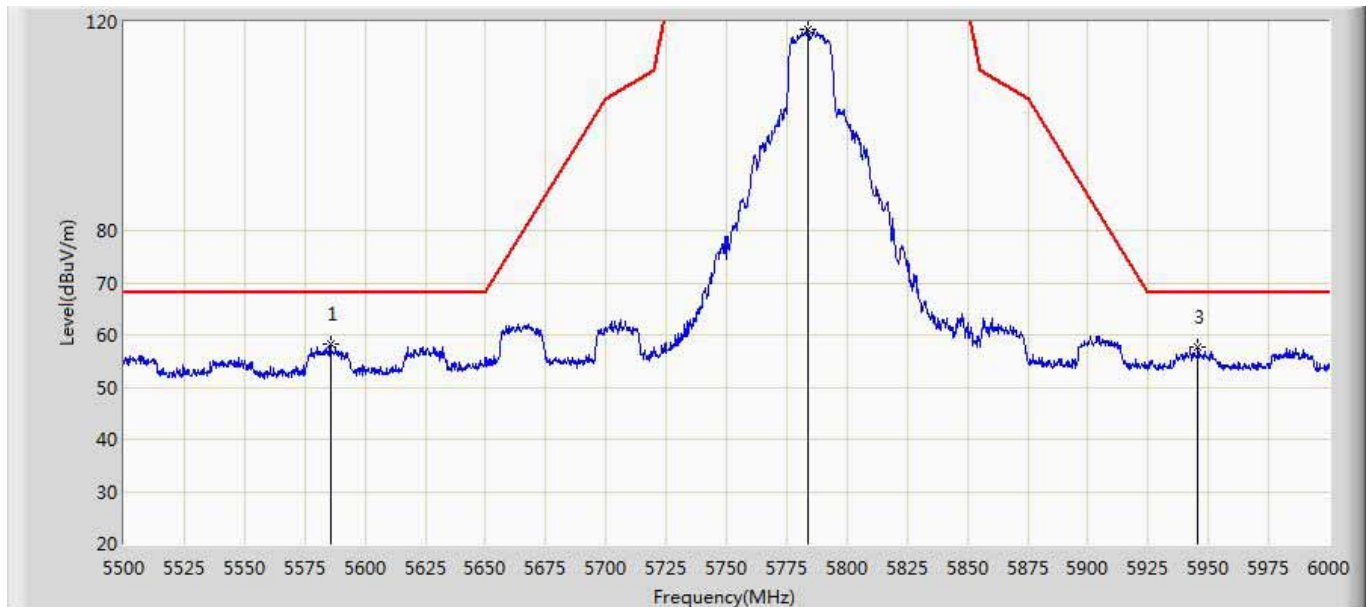
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5581.250	58.217	17.911	-9.983	68.200	40.307	PK
2	*	5785.750	118.589	77.878	-3.611	122.200	40.711	PK
3		5983.750	57.747	16.693	-10.453	68.200	41.054	PK

Site: AC5	Time: 2017/05/17 - 09:16
Limit: FCC-15.407	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5785MHZ by 802.11a	



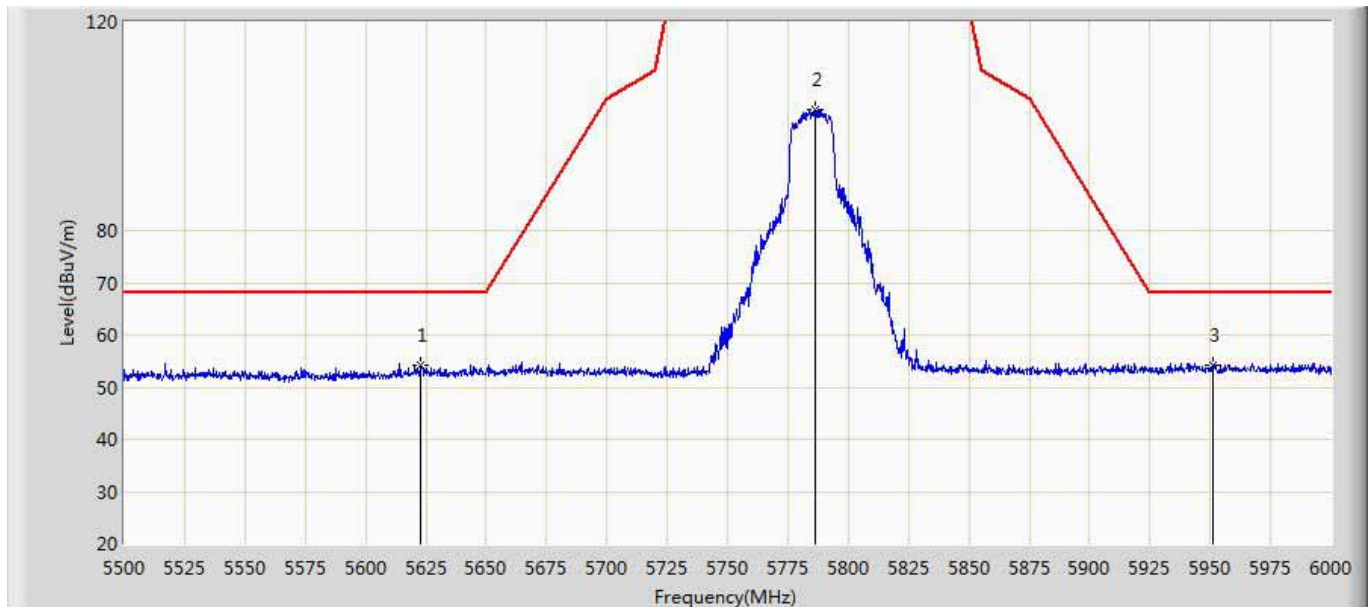
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5600.250	54.013	13.701	-14.187	68.200	40.311	PK
2		5786.000	103.242	62.529	-18.958	122.200	40.713	PK
3	*	5978.000	55.525	14.491	-12.675	68.200	41.034	PK

Site: AC5	Time: 2017/05/17 - 09:18
Limit: FCC-15.407	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5785MHZ by 802.11n20	



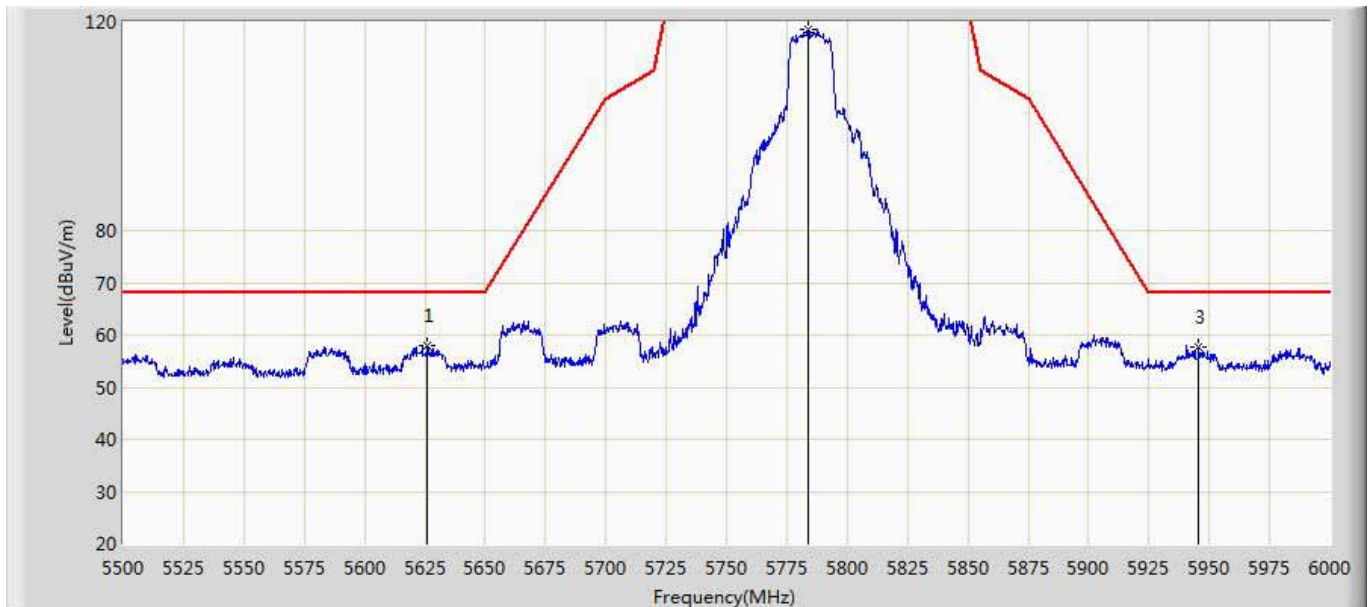
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5585.750	58.213	17.886	-9.987	68.200	40.327	PK
2	*	5784.000	118.652	77.953	-3.548	122.200	40.699	PK
3		5945.750	57.719	16.684	-10.481	68.200	41.035	PK

Site: AC5	Time: 2017/05/17 - 09:21
Limit: FCC-15.407	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5785MHZ by 802.11n20	



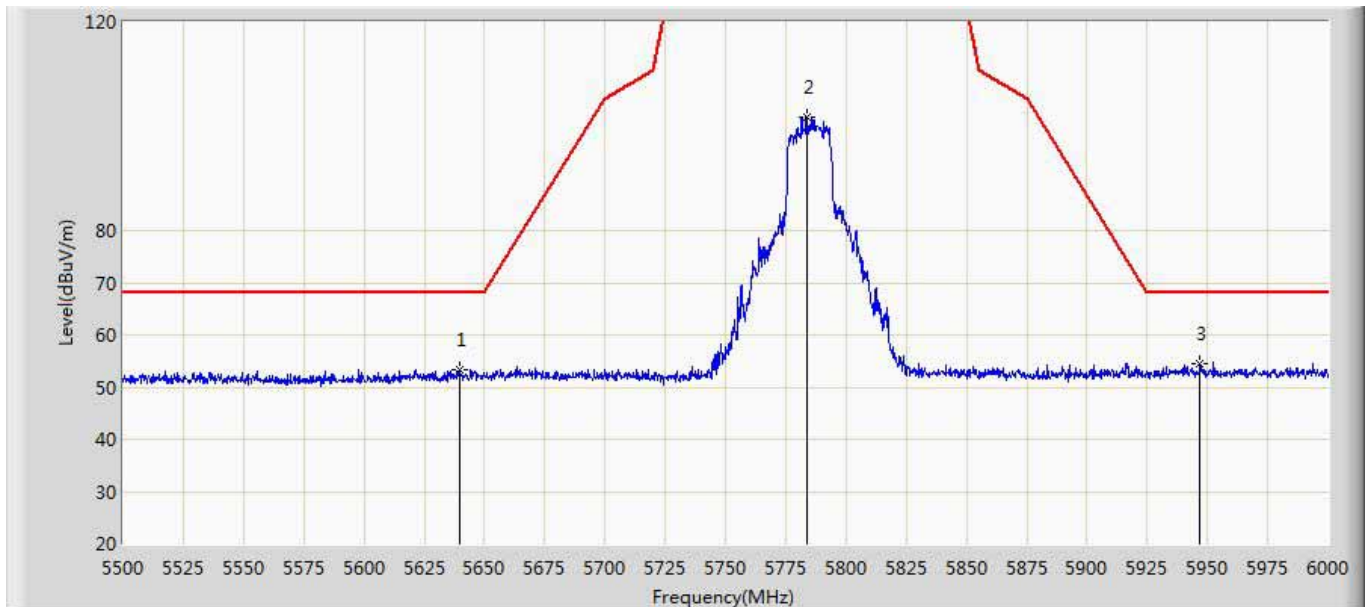
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5623.000	54.344	13.798	-13.856	68.200	40.546	PK
2		5786.250	103.088	62.374	-19.112	122.200	40.714	PK
3		5951.000	54.320	13.283	-13.880	68.200	41.038	PK

Site: AC5	Time: 2017/05/17 - 09:22
Limit: FCC-15.407	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5785MHZ by 802.11ac20	



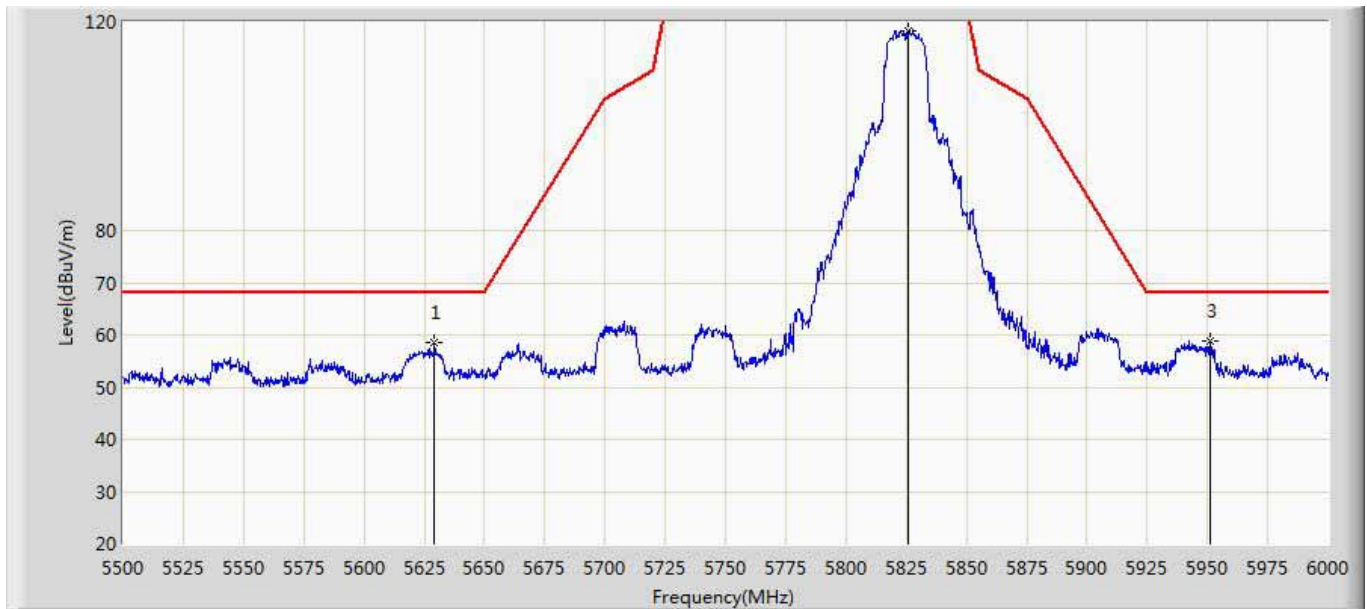
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5626.000	58.042	17.505	-10.158	68.200	40.537	PK
2	*	5784.000	118.562	77.863	-3.638	122.200	40.699	PK
3		5945.750	57.599	16.564	-10.601	68.200	41.035	PK

Site: AC5	Time: 2017/05/17 - 09:24
Limit: FCC-15.407	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5785MHZ by 802.11ac20	



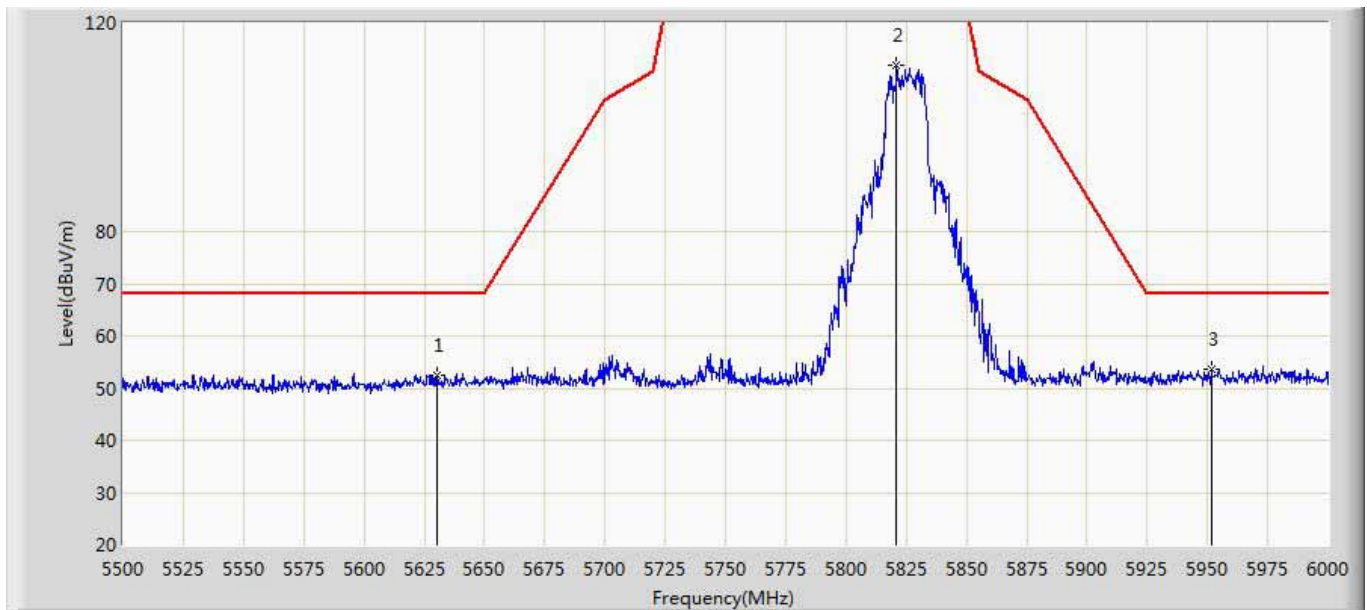
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5639.500	53.450	13.082	-14.750	68.200	40.368	PK
2		5783.750	101.693	60.995	-20.507	122.200	40.698	PK
3	*	5947.000	54.530	13.484	-13.670	68.200	41.046	PK

Site: AC5	Time: 2017/05/17 - 09:26
Limit: FCC-15.407	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5825MHZ by 802.11a	



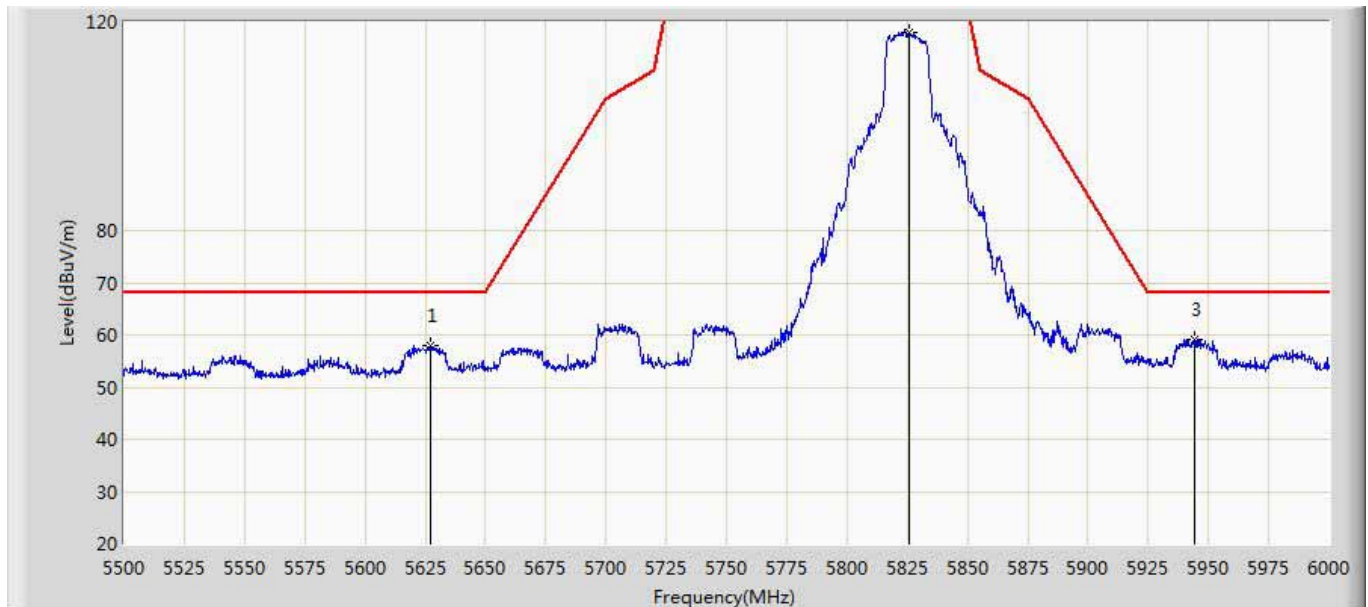
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5629.250	58.695	18.199	-9.505	68.200	40.496	PK
2	*	5826.000	118.380	77.659	-3.820	122.200	40.720	PK
3		5951.000	58.768	17.731	-9.432	68.200	41.038	PK

Site: AC5	Time: 2017/05/17 - 09:30
Limit: FCC-15.407	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5825MHZ by 802.11a	



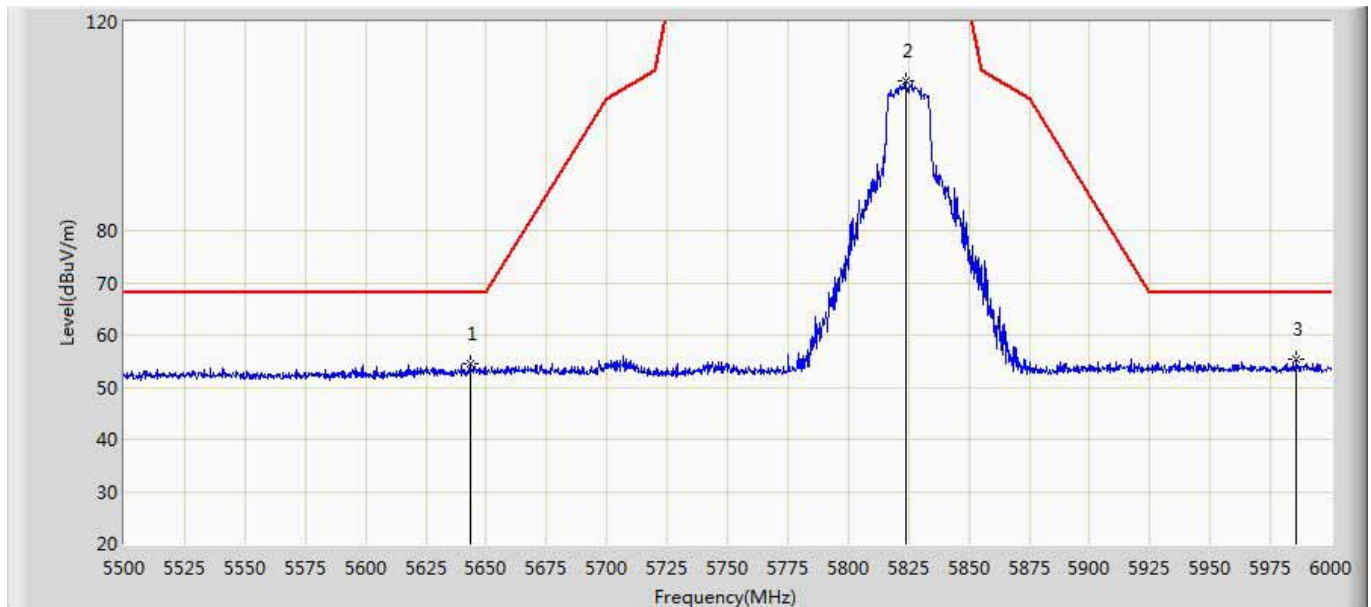
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5630.250	52.469	11.985	-15.731	68.200	40.483	PK
2	*	5821.000	111.883	71.145	-10.317	122.200	40.738	PK
3		5951.750	53.710	12.674	-14.490	68.200	41.036	PK

Site: AC5	Time: 2017/05/17 - 09:32
Limit: FCC-15.407	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5825MHZ by 802.11n20	



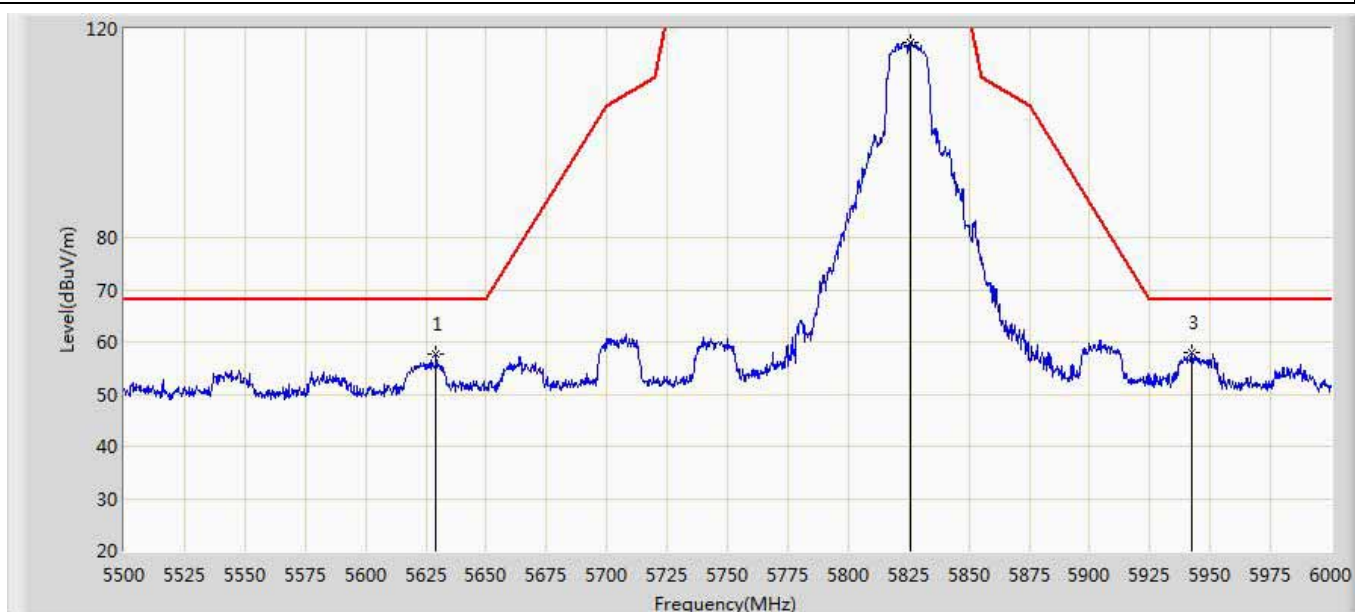
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5627.500	57.904	17.386	-10.296	68.200	40.518	PK
2	*	5826.000	118.036	77.315	-4.164	122.200	40.720	PK
3		5944.000	59.060	18.041	-9.140	68.200	41.019	PK

Site: AC5	Time: 2017/05/17 - 09:35
Limit: FCC-15.407	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5825MHZ by 802.11n20	



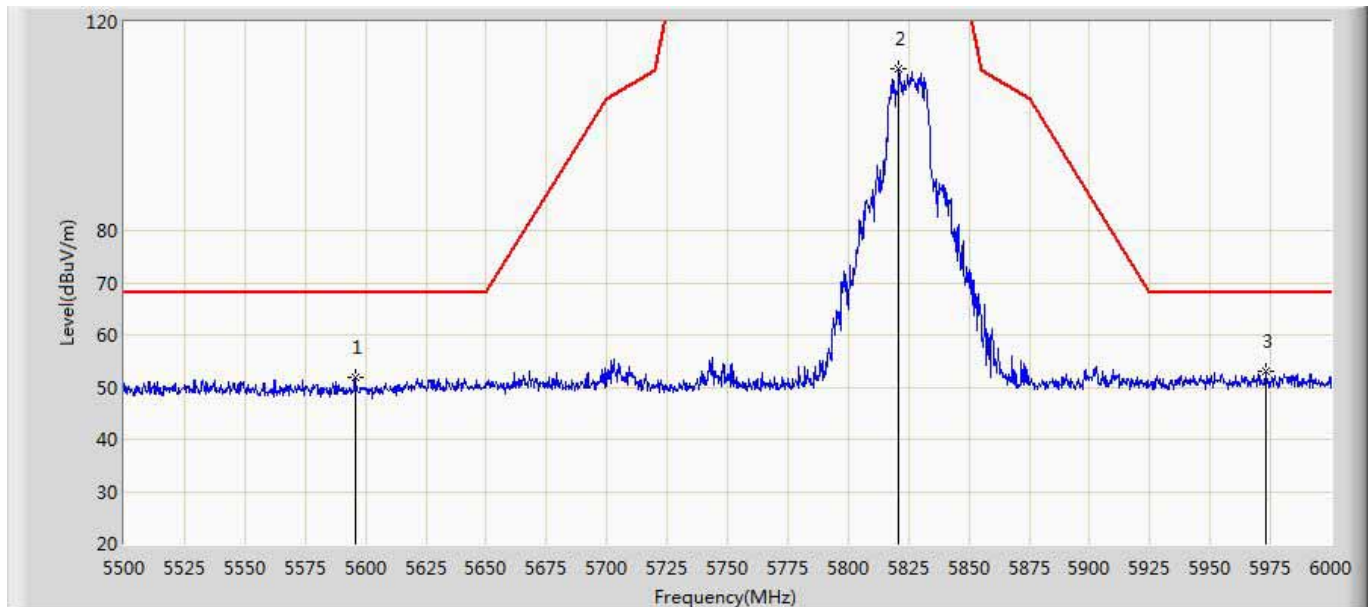
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5643.250	54.477	14.109	-13.723	68.200	40.368	PK
2		5823.750	108.741	68.012	-13.459	122.200	40.729	PK
3	*	5985.750	55.284	14.219	-12.916	68.200	41.065	PK

Site: AC5	Time: 2017/05/18 - 08:57
Limit: FCC-15.407	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5825MHZ by 802.11ac20	



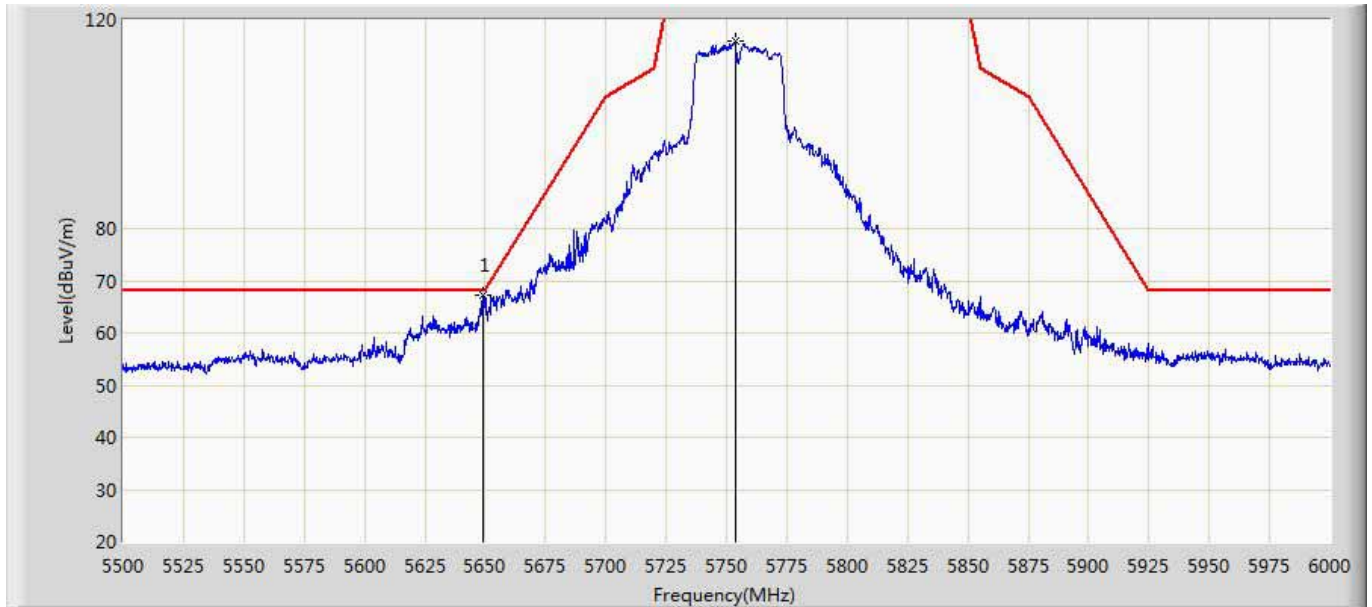
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5629.250	57.695	17.199	-10.505	68.200	40.496	PK
2	*	5826.000	117.379	76.659	-4.821	122.200	40.720	PK
3		5942.250	57.935	16.933	-10.265	68.200	41.002	PK

Site: AC5	Time: 2017/05/18 - 08:57
Limit: FCC-15.407	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5825MHZ by 802.11ac20	



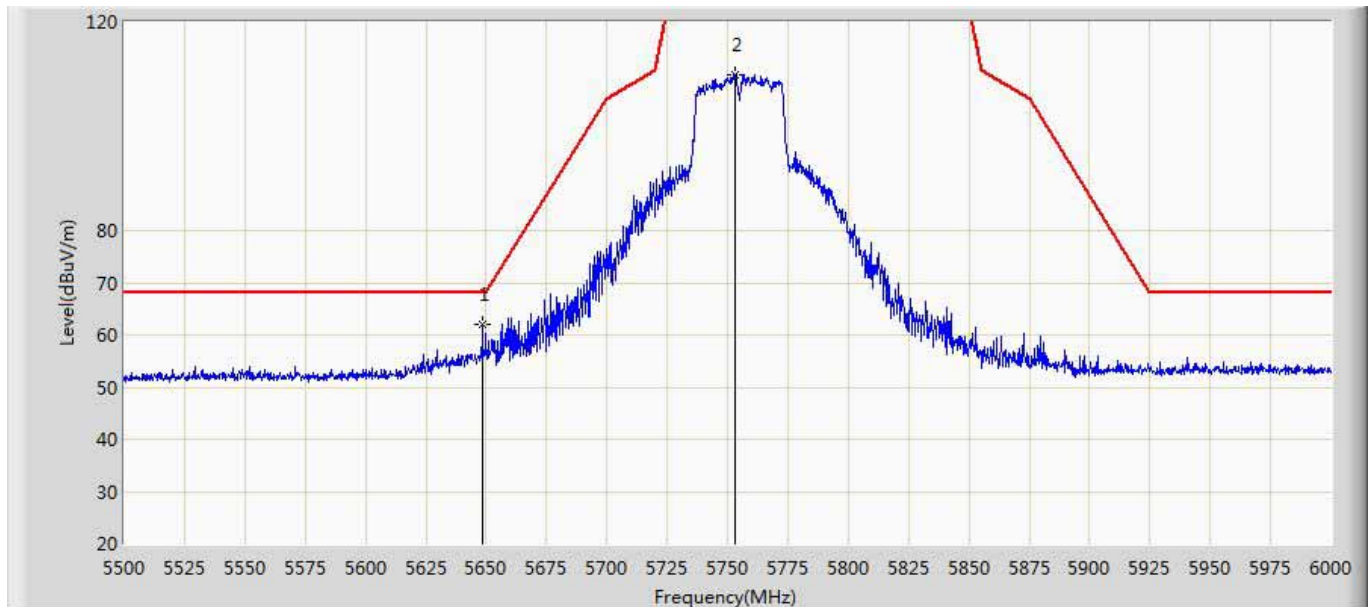
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5595.750	51.866	11.539	-16.334	68.200	40.327	PK
2	*	5821.000	110.883	70.145	-11.317	122.200	40.738	PK
3		5972.750	53.082	12.058	-15.118	68.200	41.024	PK

Site: AC5	Time: 2017/05/11 - 19:48
Limit: FCC-15.407	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5755MHZ by 802.11n40	



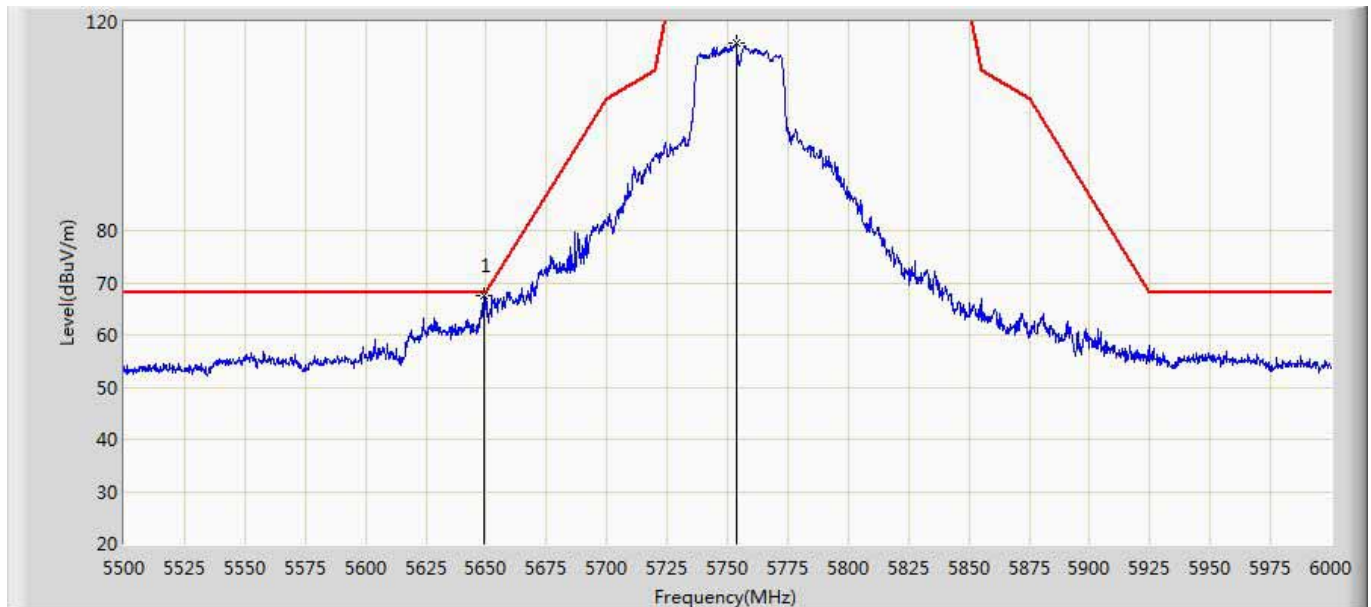
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5649.000	67.280	26.864	-0.920	68.200	40.415	PK
2		5753.500	115.964	75.358	-6.236	122.200	40.606	PK

Site: AC5	Time: 2017/05/11 - 20:05
Limit: FCC-15.407	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5755MHZ by 802.11n40	



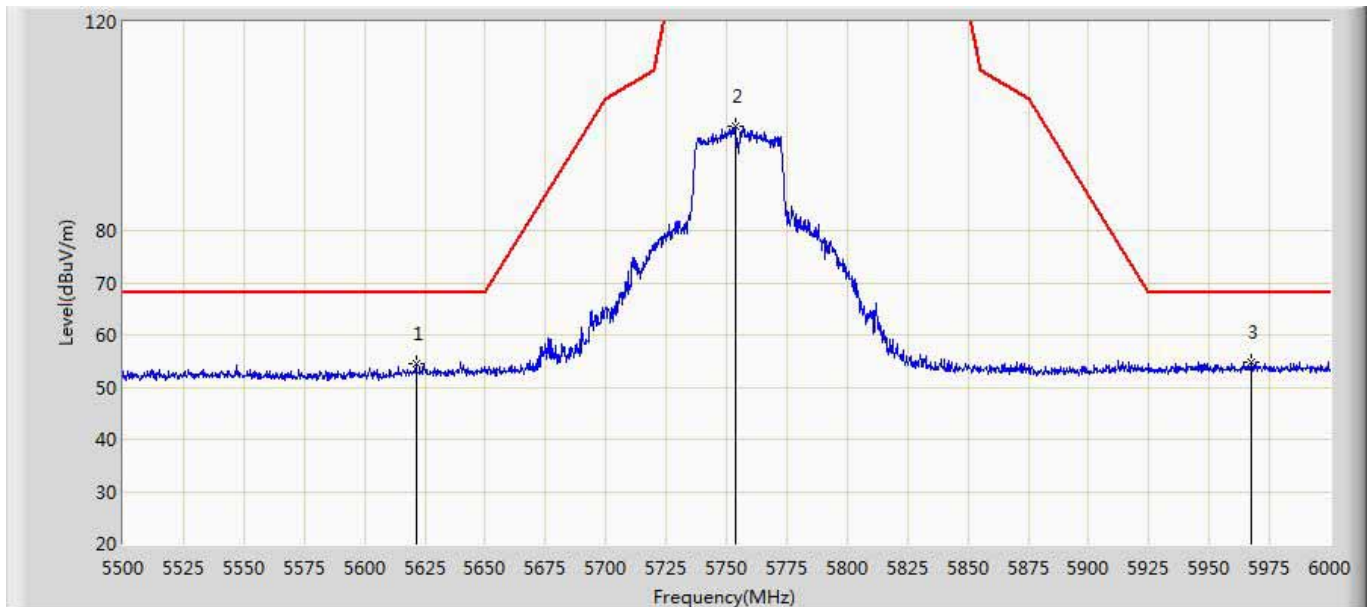
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5648.500	62.029	21.617	-6.171	68.200	40.412	PK
2		5753.250	109.923	69.318	-12.277	122.200	40.605	PK

Site: AC5	Time: 2017/05/15 - 15:01
Limit: FCC-15.407	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5755MHZ by 802.11AC40	



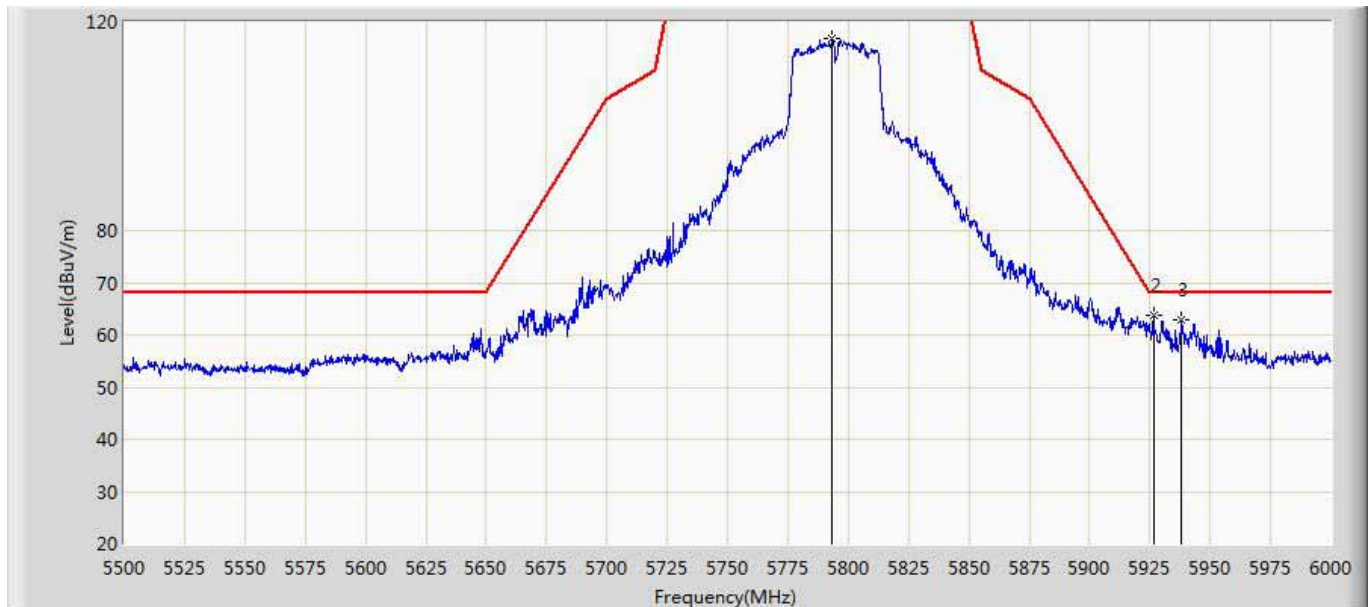
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5649.000	67.446	27.030	-0.754	68.200	40.415	PK
2		5753.500	115.963	75.357	-6.237	122.200	40.606	PK

Site: AC5	Time: 2017/05/17 - 09:42
Limit: FCC-15.407	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5755MHZ by 802.11ac40	



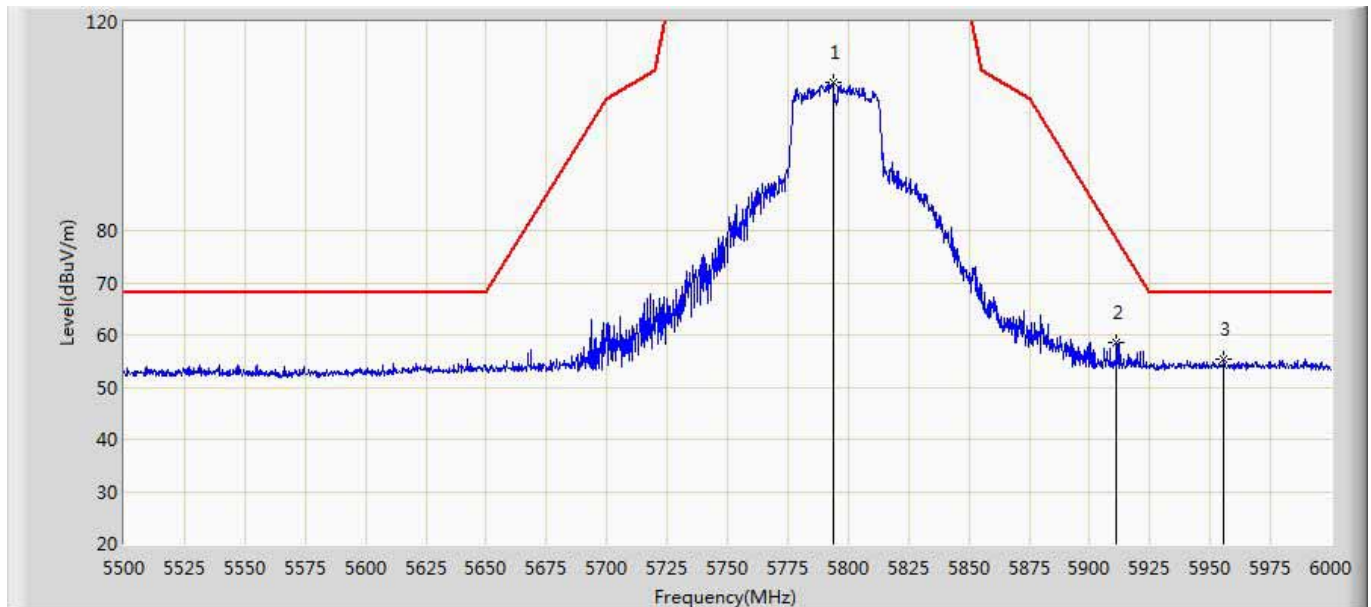
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5621.500	54.476	13.954	-13.724	68.200	40.521	PK
2		5753.500	100.078	59.472	-22.122	122.200	40.606	PK
3	*	5967.500	54.881	13.867	-13.319	68.200	41.015	PK

Site: AC5	Time: 2017/05/11 - 20:07
Limit: FCC-15.407	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5795MHZ by 802.11n40	



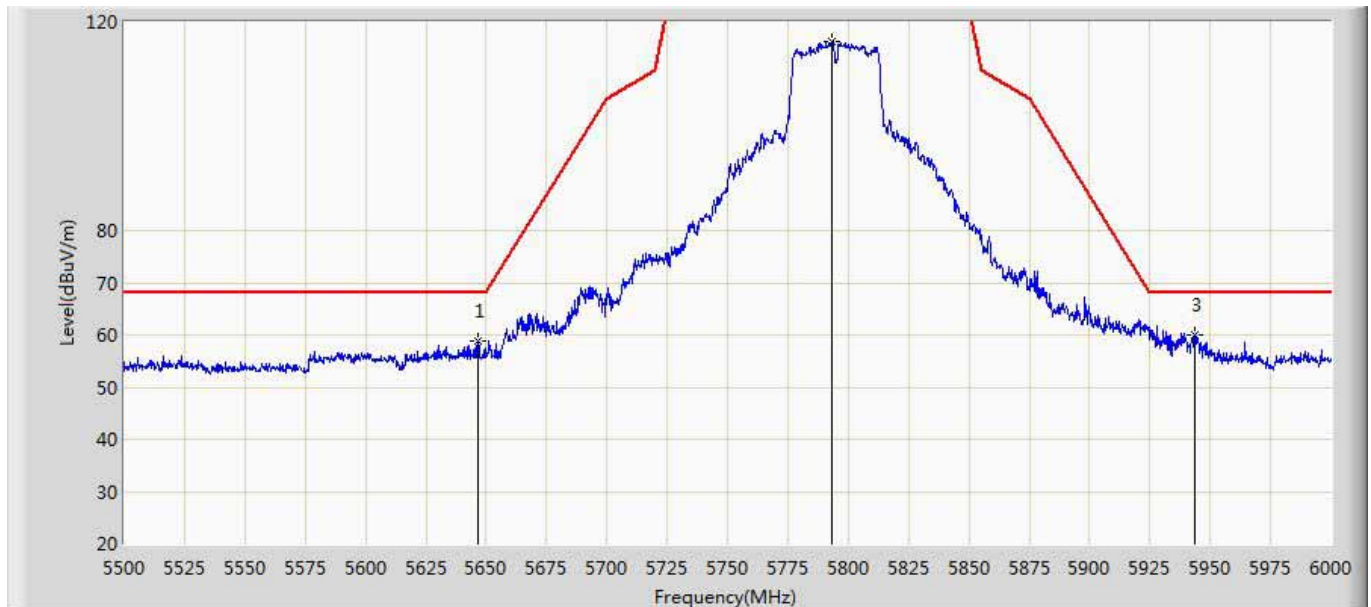
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5793.500	116.855	76.092	-5.345	122.200	40.763	PK
2	*	5926.500	63.772	22.849	-4.428	68.200	40.923	PK
3		5938.250	63.042	22.077	-5.158	68.200	40.966	PK

Site: AC5	Time: 2017/05/11 - 20:12
Limit: FCC-15.407	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5795MHZ by 802.11n40	



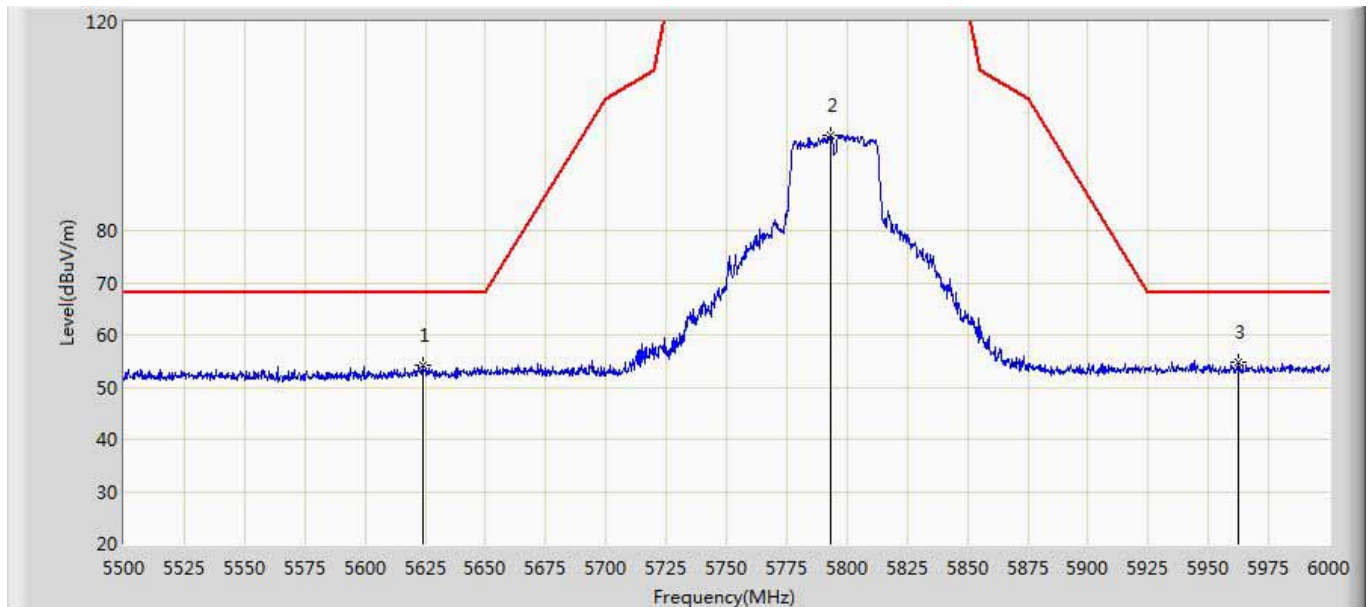
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5793.750	108.446	67.681	-13.754	122.200	40.765	PK
2		5911.250	58.599	17.566	-19.776	78.375	41.034	PK
3	*	5955.750	55.303	14.277	-12.897	68.200	41.026	PK

Site: AC5	Time: 2017/05/17 - 09:44
Limit: FCC-15.407	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5795MHZ by 802.11ac40	



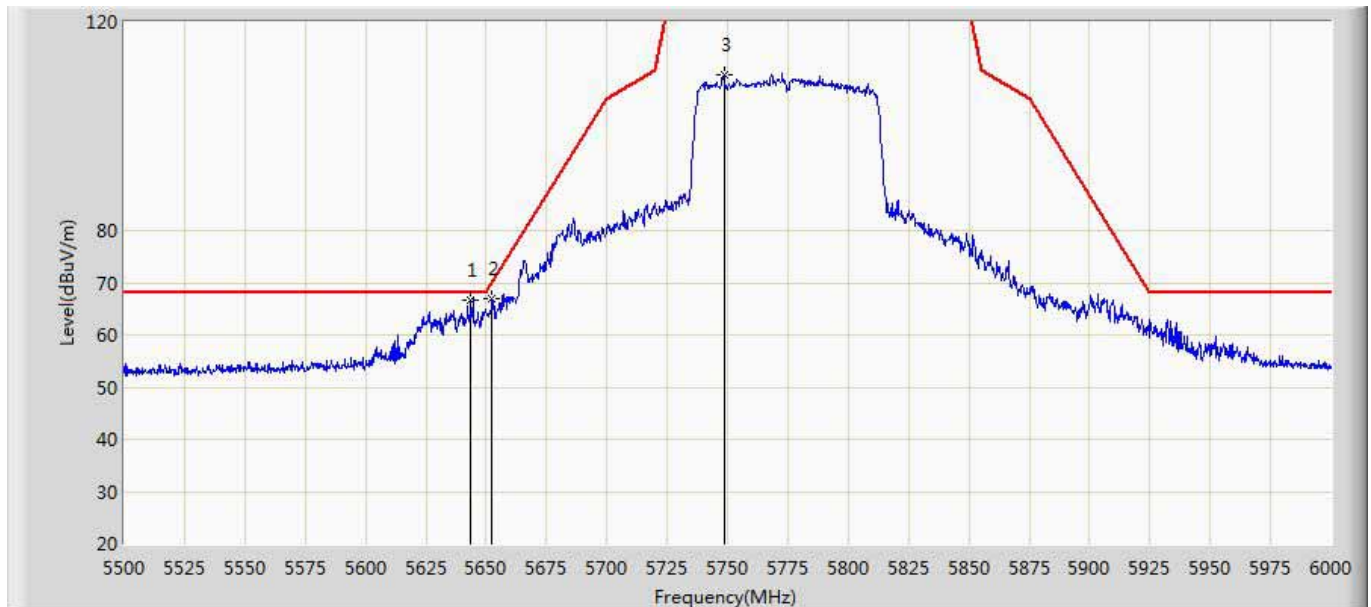
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5646.500	58.829	18.434	-9.371	68.200	40.395	PK
2	*	5793.250	116.151	75.390	-6.049	122.200	40.761	PK
3		5943.750	59.974	18.958	-8.226	68.200	41.016	PK

Site: AC5	Time: 2017/05/17 - 09:47
Limit: FCC-15.407	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5795MHZ by 802.11ac40	



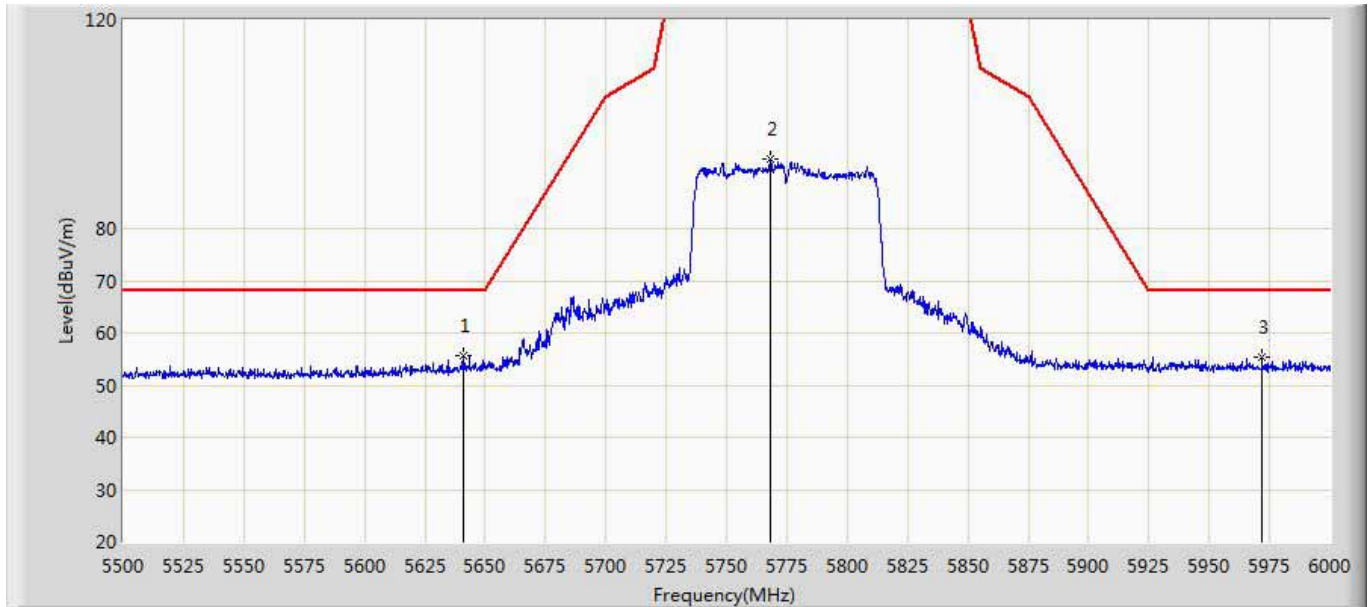
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5623.750	54.263	13.705	-13.937	68.200	40.558	PK
2		5793.250	98.389	57.628	-23.811	122.200	40.761	PK
3	*	5962.250	54.866	13.854	-13.334	68.200	41.012	PK

Site: AC5	Time: 2017/05/10 - 09:21
Limit: FCC-15.407	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5775MHZ by 802.11ac80	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5643.750	66.770	26.398	-1.430	68.200	40.372	PK
2		5652.500	67.084	26.639	-2.966	70.050	40.445	PK
3		5748.500	109.731	69.137	-12.469	122.200	40.595	PK

Site: AC5	Time: 2017/05/17 - 09:49
Limit: FCC-15.407	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5775MHZ by 802.11ac80	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5641.250	55.609	15.258	-12.591	68.200	40.351	PK
2		5768.250	93.226	52.590	-28.974	122.200	40.636	PK
3		5971.750	55.381	14.359	-12.819	68.200	41.022	PK

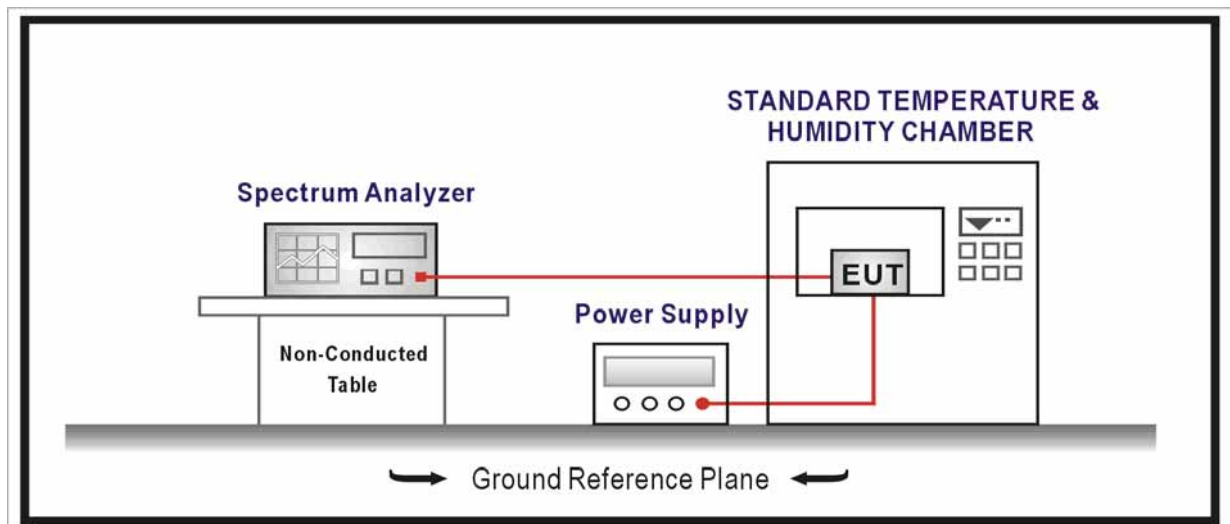
10. Frequency Stability

10.1. Test Equipment

Frequency Stability / TR-7					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2016.02.04	2018.02.04
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2016.04.09	2018.04.09
MXA Signal Analyzer	Keysight	N9020A	MY56060147	2016.04.09	2018.04.09
AC Power Supply	IDRC	CF-500TP	979422	2016.09.16	2017.09.16
DC Power Supply	IDRC	CD-035-020PR	977272	2016.09.16	2017.09.16
Programmable Temperature & Humidity Chamber	Gaoyu	TH-1P-B	WIT-05121302	2017.01.04	2018.01.03
Temperature/Humidity Meter	zhichen	ZC1-2	TR7-TH	2016.04.10	2018.04.10

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

10.2. Test Setup



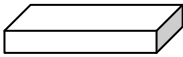
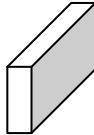
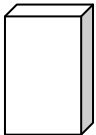
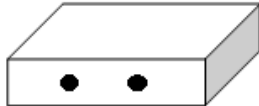
10.3. Limit

Frequency Stability Limit	
UNII Devices	
☒	In-band emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.
IEEE Std. 802.11n-2009	
☒	The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band and ± 25 ppm maximum for the 2.4 GHz band.

10.4. Test Procedure

Frequency Stability Test Method				
	References Rule		Chapter	Description
☒	ANSI C63.10		6.8	Frequency stability tests
	☒	ANSI C63.10	6.8.1	Frequency stability with respect to ambient temperature
	☒	ANSI C63.10	6.8.2	Frequency stability when varying supply voltage

10.5. EUT test Axis definition

Item	Frequency Stability			
Device Category	☐	Outdoor AP		
	☒	Indoor AP		
	☐	Fixed point-to-point AP		
	☐	Outdoor fixed point-to-multipoint AP		
	☐	Client		
Test mode	Mode 1-9			
Test method	☐	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis ☐	Worst Axis ☐	Worst Axis ☐
	☒	Conducted		
	☐	Chain 0		
				
	☒	Chain 0	Chain 1	
				
	☐	Chain 0	Chain 1	Chain 2
				

10.6. Test Result

Product Name	: AC1200 Wireless Dual Band Router	Power	: AC 120V
Model No.	: Archer C50	Test Site	: TR7
Test Mode	: Mode 1~6	Test Date	: 2017.05.20

Frequency Stability under Temperature

Temperature Interval (°C)	Test Frequency (MHz)	Deviation (Hz)	Deviation (ppm)
-30	5180.000	119	0.0229
-20	5180.000	-109	-0.0210
-10	5180.000	-149	-0.0287
0	5180.000	114	0.0220
10	5180.000	-93	-0.0179
20	5180.000	-87	-0.0167
30	5180.000	106	0.0204
40	5180.000	99	0.0191
50	5180.000	-122	-0.0235
-30	5785.000	116	0.0200
-20	5785.000	154	0.0266
-10	5785.000	119	0.0205
0	5785.000	124	0.0214
10	5785.000	-84	-0.0145
20	5785.000	-96	-0.0165
30	5785.000	251	0.0433
40	5785.000	178	0.0307
50	5785.000	160	0.0276

Frequency Stability under Voltage

AC Voltage (V)	Test Frequency (MHz)	Deviation (Hz)	Deviation (ppm)
93.5	5180.000	119	0.0229
110	5180.000	100	0.0193
126.5	5180.000	110	0.0212
93.5	5785.000	113	0.0195
110	5785.000	117	0.0202
126.5	5785.000	-152	-0.0262

11. Antenna Requirement

11.1. Limit

Antenna Requirement Limit	
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.	

11.2. Antenna Connector Construction

Antenna Connector Construction	
☒	The use of a permanently attached antenna
☐	The antenna use of a unique coupling to the intentional radiator
☐	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 _____