FCC Test Report

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. 21st, 2017
Issued Date	:	Jun. 27th, 2017
Report No.	:	1752112R-RF- US-P06V02
Report Version	:	V1.0

Test Report Certification

Issued Date : Jun. 27th, 2017
Report No. : 1752112R-RF-US-P06V02

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 C ANSI C63.4:2014; ANSI C63.10:2013; KDB 558074 D01v04 KDB 662911 D01 Multiple Transmitter Output v02r01 KDB 662911 D02 MIMO with Cross-Polarized Antennas v01
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

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Reviewed By : Jack Zhang

(Senior Engineer: Jack Zhang)

Approved By : Harry Zhao

(Engineering Manager: Harry Zhao)

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History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
1752112R-RF-US-P06V02	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
Frequency Range	For 2.4GHz Band 802.11b/g/n(20MHz): 2412~2462MHz 802.11n(40MHz): 2422~2452MHz
Channel Number	For 2.4GHz Band 802.11b/g/n(20MHz): 11 802.11n(40MHz): 7
Type of Modulation	802.11b: DSSS
	802.11g: OFDM
Data Rate	802.11g: 6/9/12/18/24/36/48/54 Mbps
	802.11b: 1/2/5.5/11 Mbps
	802.11n: up to 300 Mbps
Channel Control	Auto

1.2. Channel List:

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

1.3. Test Channel:

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

1.4. 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	1.8dBi			
Antenna Gain #1	1.8dBi			

1.5. Mode of Operation

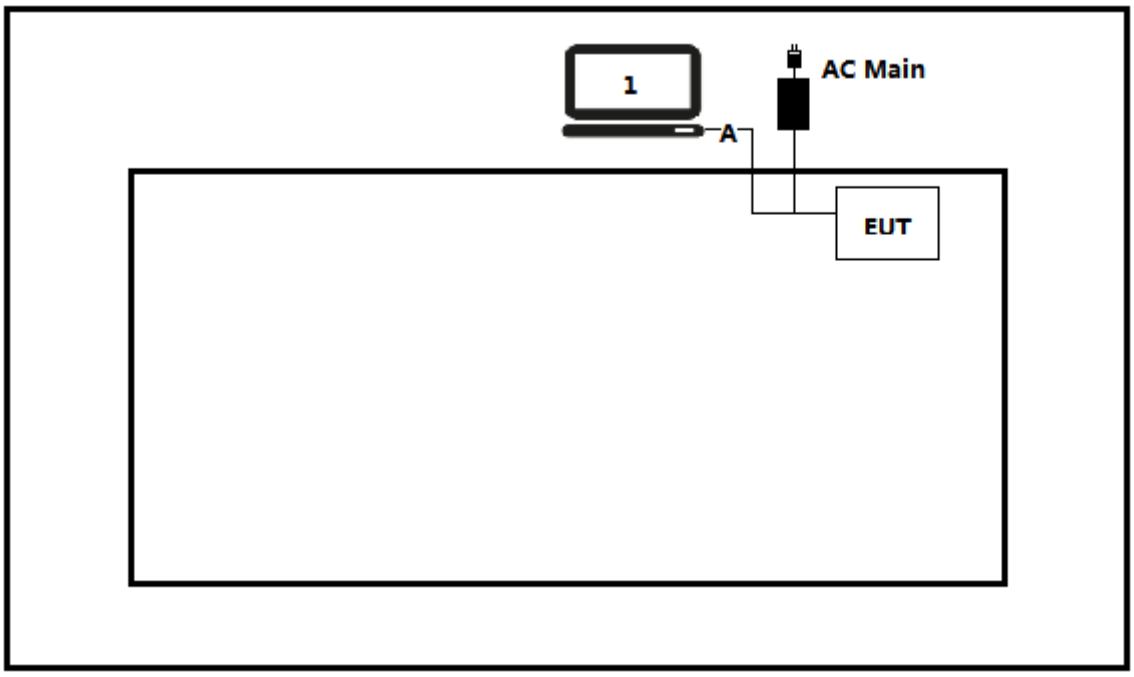
Test Modes List
Mode 1: Transmit by 802.11b
Mode 2: Transmit by 802.11g
Mode 3: Transmit by 802.11n(20MHz)
Mode 4: Transmit by 802.11n(40MHz)

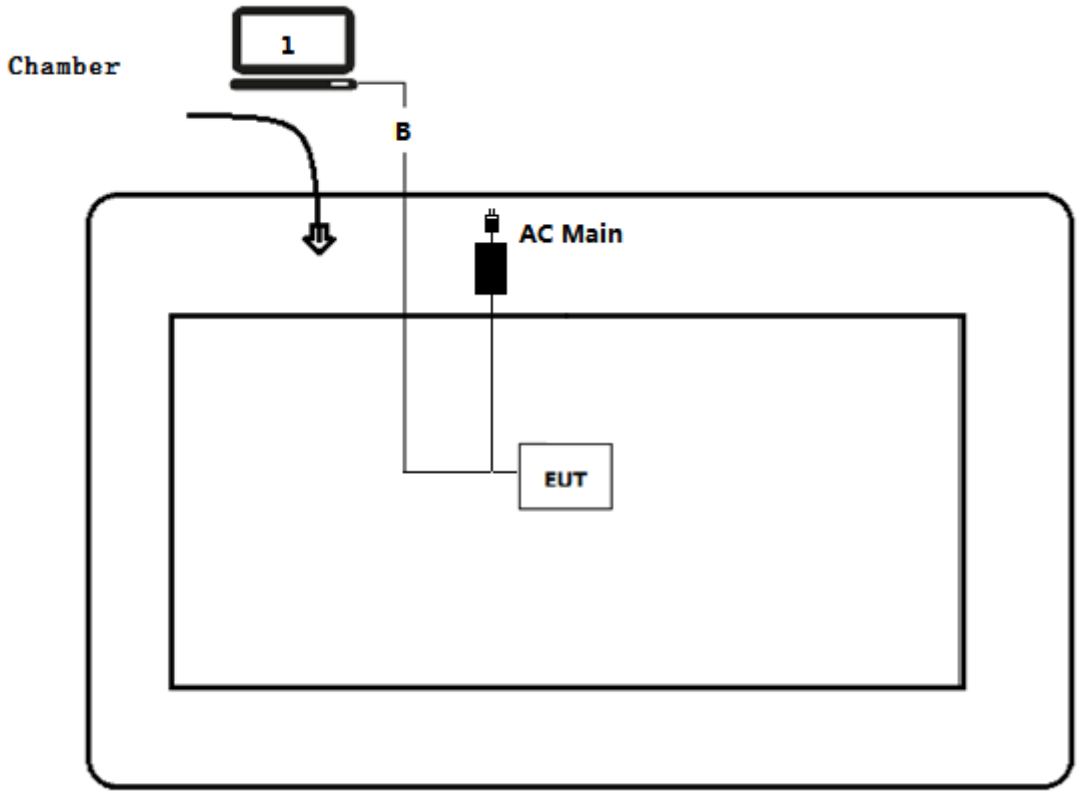
1.6. Tested System Details

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

No.	Product	Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook	Lenovo	Think pad x220	SUA0600195	Non-shielded
A	LAN cable	N/A	N/A	N/A	Non-shielded,1.5m
B	LAN cable	N/A	N/A	N/A	Non-shielded,10m

1.7. Configuration of Tested System

Test setup Diagram- AC Line Conducted Emission Test

Test setup Diagram- Radiated Emission



A	LAN Cable	Non-shielded, 1.5m
B	LAN Cable	Non-shielded, 15m

2. Technical Test

2.1. Summary of Test Result

Performed Test Item	Normative References	Worst case mode	Limit	Result
AC Power Line Conducted Emission	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.207	Mode 1	FCC 15.207	PASS
Emissions in restricted frequency bands	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.209	Mode 1	FCC 15.209	PASS
Emissions in non-restricted frequency bands	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.247(d)	Mode 3	≥30dBc	PASS
Radiated Emission Band Edge	FCC CFR Title 47 Part 15 Subpart C: 2015 15.247(d)	Mode 1	FCC 15.209	PASS
Occupied Bandwidth	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.247(a)(2)	Mode 1	≥500kHz	PASS
Fundamental emission output power	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.247(b)(3)	Mode 1	≤30dBm	PASS
Power Spectral Density	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.247(e)	Mode 1	≤8dBm/3kHz	PASS
Antenna Requirement	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.203	N/A	FCC 15.203	PASS

2.2. Power setting parameter

Modulation Mode	Test Frequency	Ant 0+1
802.11b	2412	33
	2417	34
	2437	38
	2457	32
	2462	31
802.11g	2412	23
	2417	31
	2437	37
	2457	30
	2462	22
802.11n(20MHz)	2412	21
	2417	31
	2437	39
	2457	30
	2462	22
802.11n(40MHz)	2422	16
	2427	19
	2437	26
	2447	20
	2452	17

2.3. Power vs Data Rate

MCS Index for 802.11n	Spatial Streams	Data Rate (Mbps)						
		802.11b	802.11g		20MHz Bandwidth		40MHz Bandwidth	
					800ns GI	400ns GI	800ns GI	400ns GI
0	1	1	6	---	6.5	7.2	13.5	15.0
1	1	2	9	---	13.0	14.4	27.0	30.0
2	1	5.5	12	---	19.5	21.7	40.5	45.0
3	1	11	18	---	26.0	28.9	54.0	60.0
4	1	---	24	---	39.0	43.3	81.0	90.0
5	1	---	36	---	52.0	57.8	108.0	120.0
6	1	---	48	---	58.5	65.0	121.5	135.0
7	1	---	54	---	65.0	72.2	135.0	150.0
8	2	---	---	---	13.0	14.4	27.0	30.0
9	2	---	---	---	26.0	28.8	54.0	60.0
10	2	---	---	---	39.0	43.4	81.0	90.0
11	2	---	---	---	52.0	57.8	108.0	120.0
12	2	---	---	---	78.0	86.6	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	144.4	270.0	300.0

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

2: The EUT has two spatial streams.

2.4. 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

2.5. Measurement Uncertainty

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

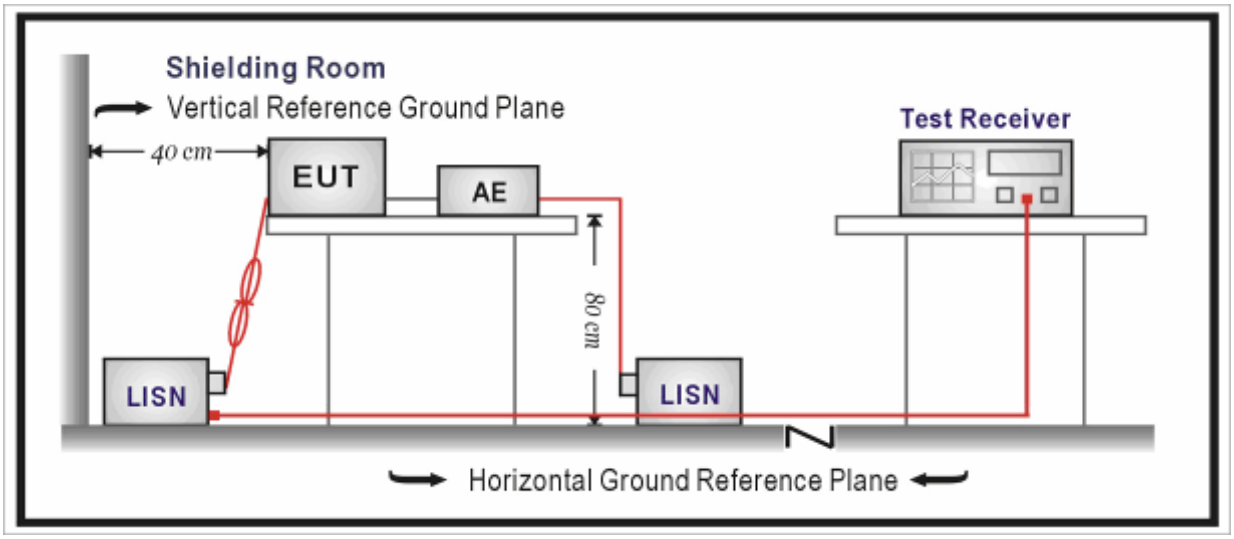
3. AC Power Line Conducted Emission

3.1. Test Equipment

AC Power Line Conducted Emission / TR-1					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100906	2017.03.05	2018.03.04
Two-Line V-Network	R&S	ENV 216	101189	2017.07.16	2018.07.15
Two-Line V-Network	R&S	ENV 216	101044	2017.09.16	2018.09.15
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

AC Power Line Conducted Emission test setup



3.3. Limit

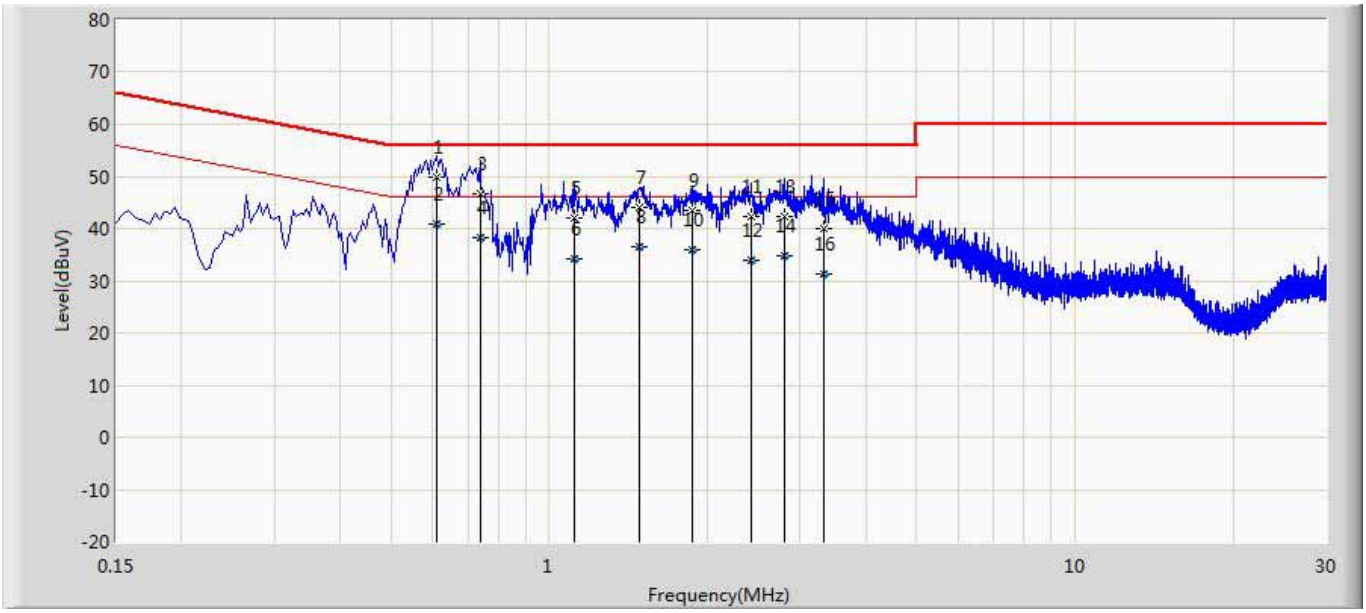
Frequency of Emission (MHz)	Conducted Limit	
	Quasi-peak (dB μ V)	Average(dB μ V)
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50
Note 1: The lower limit shall apply at the transition frequencies. Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.		

3.4. Test Procedure

Test Method			
	References Rule	Chapter	Item
☒	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_Part15.107_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 2412MHz by 802.11b	

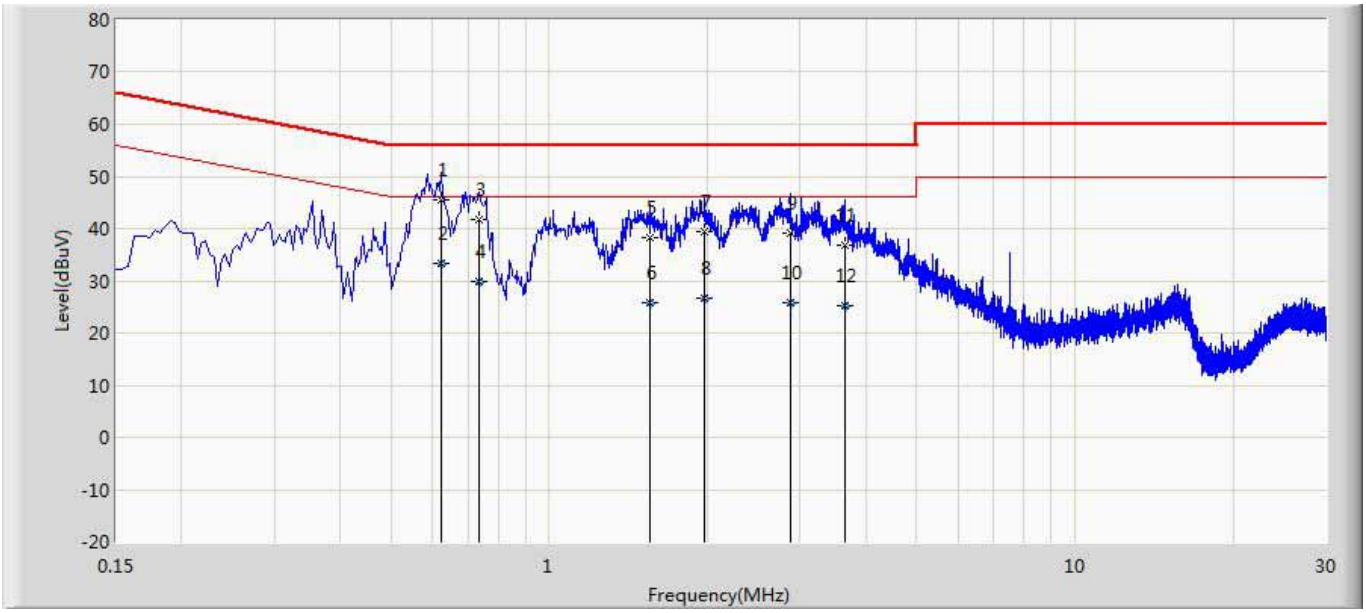


No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1		0.610	49.864	40.174	-6.136	56.000	9.620	0.070	0.000	QP
2	*	0.610	40.999	31.309	-5.001	46.000	9.620	0.070	0.000	AV
3		0.738	46.574	36.884	-9.426	56.000	9.620	0.070	0.000	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_Part15.107_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 2412MHz by 802.11b	



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. Emissions in restricted frequency bands

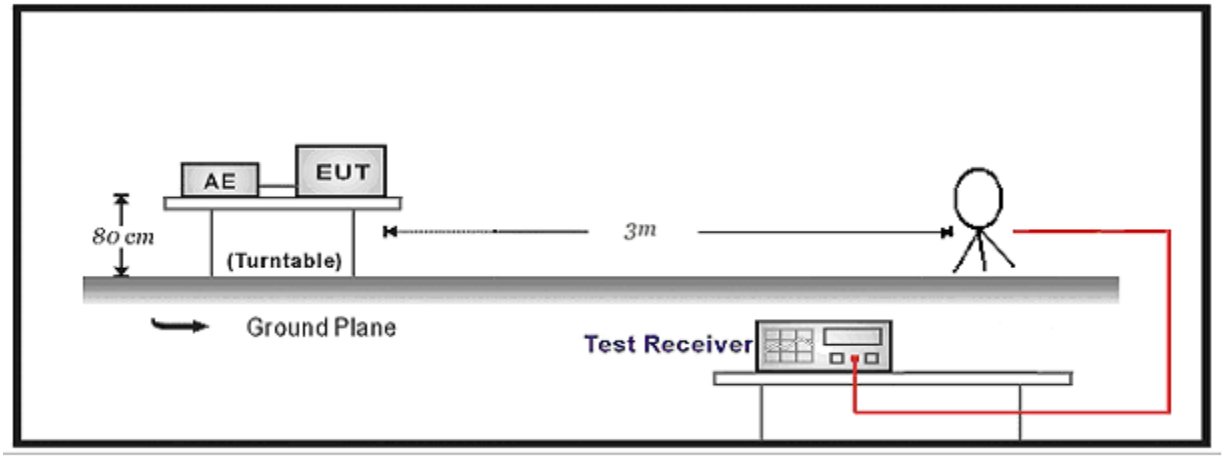
4.1. Test Equipment

Radiated Emission(Below 1GHz) / AC-2					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100573	2017.03.29	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	2017.03.02	2018.03.01
Temperature/Humidity Meter	Zhichen	ZC1-2	AC2-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.					

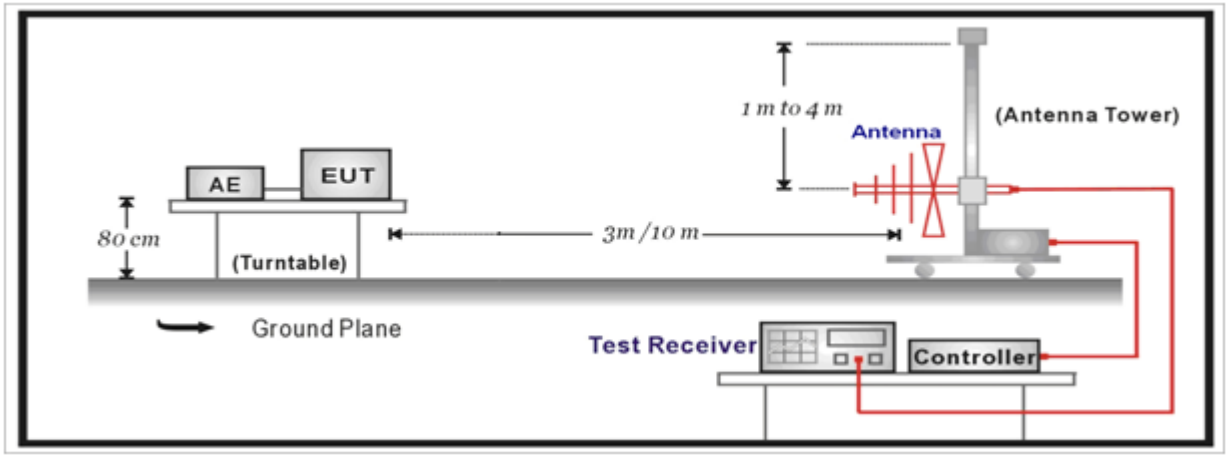
Radiated Emission(Above 1GHz) / AC-5					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2017.01.03	2018.01.02
Preamplifier	Miteq	NSP1800-25	1364185	2017.05.06	2018.05.05
Preamplifier	QTK	AP-040G	CHM-0906001	2017.05.06	2018.05.05
DRG Horn	ETS-Lindgren	3117	00123988	2017.01.22	2018.01.21
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2016.11.25	2017.11.24
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C1	2017.03.02	2018.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2017.03.02	2018.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	AC5-C3	2017.03.02	2018.03.01
EMI Receiver	Agilent	N9038A	MY51210196	2017.06.10	2018.06.09
Temperature/Humidity Meter	Zhichen	ZC1-2	AC5-TH	2017.01.04	2018.01.03
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

4.2. Test Setup

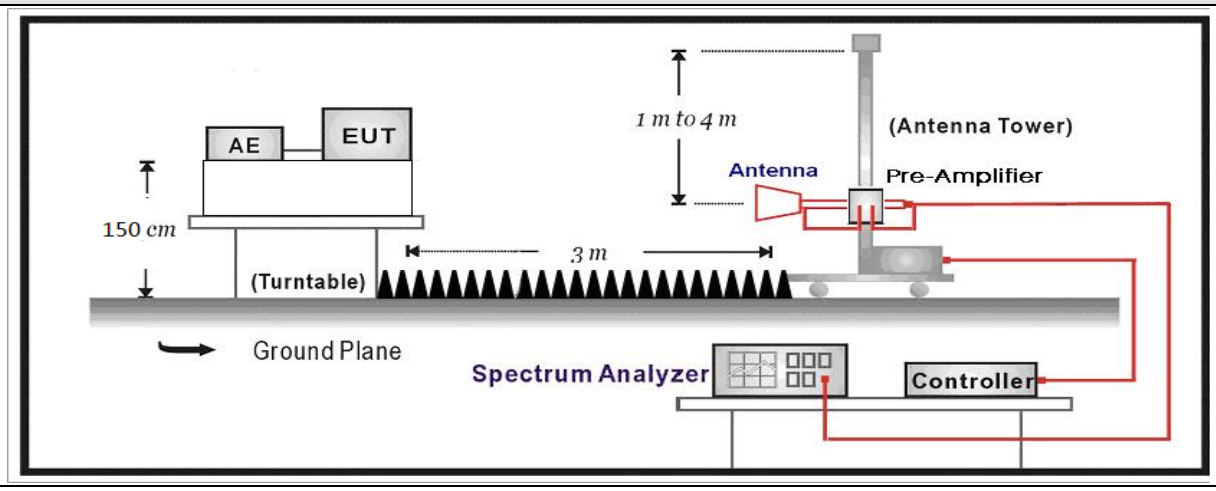
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limit

Restricted Bands of operation			
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 – 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15
0.495 – 0.505	16.69475 –16.69525	608 – 614	5.35 – 5.46
2.1735 – 2.1905	16.80425 – 16.80475	960 – 1240	7.25 – 7.75
4.125 – 4.128	25.5 – 25.67	1300 – 1427	8.025 – 8.5
4.17725 – 4.17775	37.5 – 38.25	1435 – 1626.5	9.0 – 9.2
4.20725 – 4.20775	73 – 74.6	1645.5 – 1646.5	9.3 – 9.5
6.215 – 6.218	74.8 – 75.2	1660 – 1710	10.6 – 12.7
6.26775 – 6.26825	108 – 121.94	1718.8 – 1722.2	13.25 – 13.4
6.31175 – 6.31225	123 – 138	2200 – 2300	14.47 – 14.5
8.291 – 8.294	149.9 – 150.05	2310 – 2390	15.35 – 16.2
8.362 – 8.366	156.52475 – 156.52525	2483.5 – 2500	17.7 – 21.4
8.37625 – 8.38675	156.7 – 156.9	2690 – 2900	22.01 – 23.12
8.81425 – 8.81475	162.0125 – 167.17	3260 – 3267	23.6 – 24.0
12.29 – 12.293	167.72 – 173.2	3332 – 3339	31.2 – 31.8
12.51975–12.52025	240 – 285	3345.8 – 3358	36.43 – 36.5
12.57675–12.57725	322 – 335.4	3600 – 4400	
13.36 – 13.41			

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

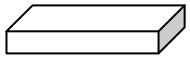
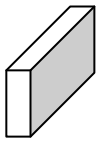
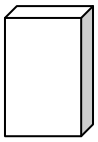
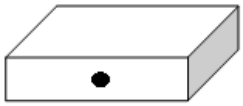
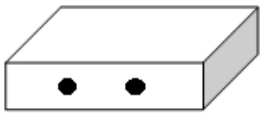
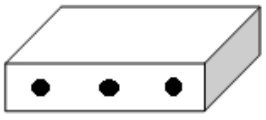
Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed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

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

4.4. Test Procedure

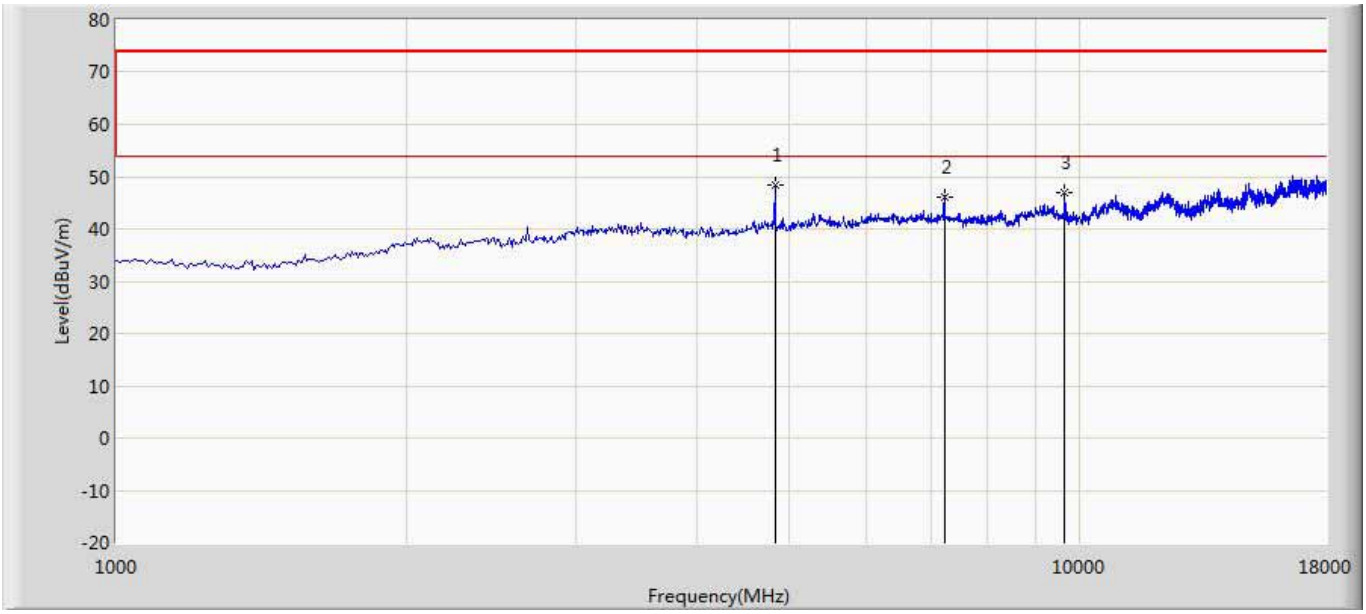
Test Method						
	References Rule				Chapter	Description
☐	ANSI C63.10				11.11	Emissions in non-restricted frequency bands
	☐	ANSI C63.10			11.11.2	Reference level measurement
	☐	ANSI C63.10			11.11.3	Emission level measurement
☒	ANSI C63.10				11.12	Emissions in restricted frequency bands
	☒	ANSI C63.10			11.12.1	Radiated emission measurements
	☒	ANSI C63.10			11.12.2.7	Radiated spurious emission test
		☒	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
		☐	ANSI C63.10		11.12.2.3	Quasi-peak measurement procedure
		☒	ANSI C63.10		11.12.2.4	Peak power measurement procedure
		☒	ANSI C63.10		11.12.2.5	Average power measurement procedures
			☐	ANSI C63.10	11.12.2.5.1	Trace averaging with continuous EUT transmission at full power
			☐	ANSI C63.10	11.12.2.5.2	Trace averaging across ON and OFF times of the EUT transmissions followed by duty cycle correction
			☒	ANSI C63.10	11.12.2.5.3	Reduced VBW averaging across ON and OFF times of the EUT transmissions with max hold

4.5. EUT test Axis definition

<table>
<tr><td>Item</td><td colspan="4">Emissions in restricted frequency bands</td></tr>
<tr><td rowspan="2">Device Category</td><td>☐</td><td colspan="3">Fixed position use</td></tr>
<tr><td>☒</td><td colspan="3">Mobile position use</td></tr>
<tr><td>Test mode</td><td colspan="4">Mode 1~4</td></tr>
<tr><td rowspan="13">Test method</td><td>☒</td><td colspan="3">Radiated</td></tr>
<tr><td rowspan="3"></td><td>X Axis</td><td>Y Axis</td><td>Z Axis</td></tr>
<tr><td>  </td><td>  </td><td>  </td></tr>
<tr><td>Worst Axis ☐</td><td>Worst Axis ☐</td><td>Worst Axis ☒</td></tr>
<tr><td>☐</td><td colspan="3">Conducted</td></tr>
<tr><td>☐</td><td colspan="3">Chain 1</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☒</td><td>Chain 1</td><td colspan="2">Chain 2</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☐</td><td>Chain 1</td><td>Chain 2</td><td>Chain 3</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
</table>

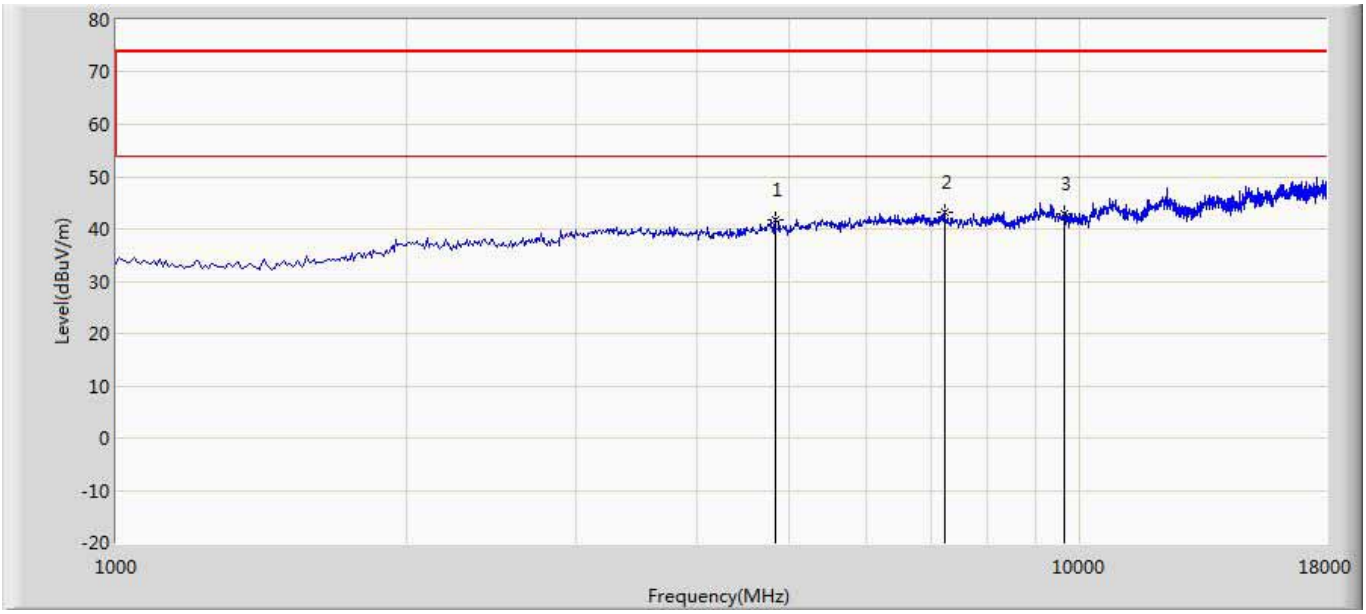
4.6. Test Result

Site: AC5	Time: 2017/02/19 - 14:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2412MHZ by 802.11b	



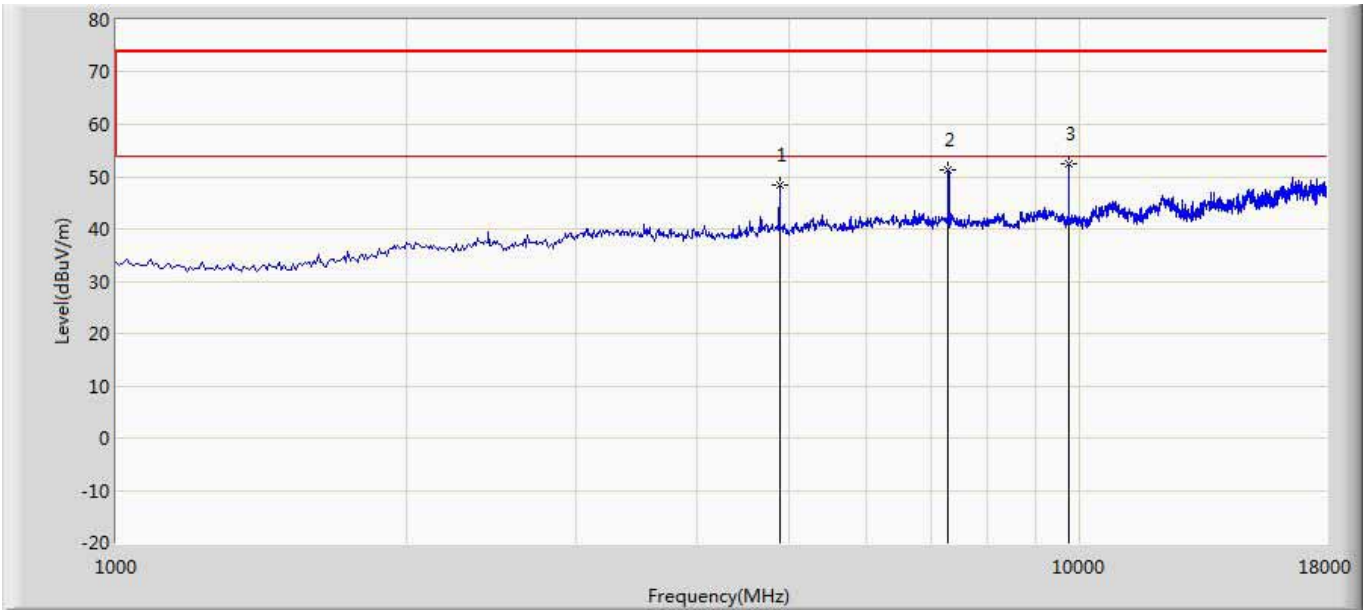
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4825.000	48.300	56.032	-25.700	74.000	-7.732	PK
2		7239.000	46.164	50.616	-27.836	74.000	-4.452	PK
3		9644.500	46.926	48.130	-27.074	74.000	-1.205	PK

Site: AC5	Time: 2017/02/19 - 14:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2412MHZ by 802.11b	



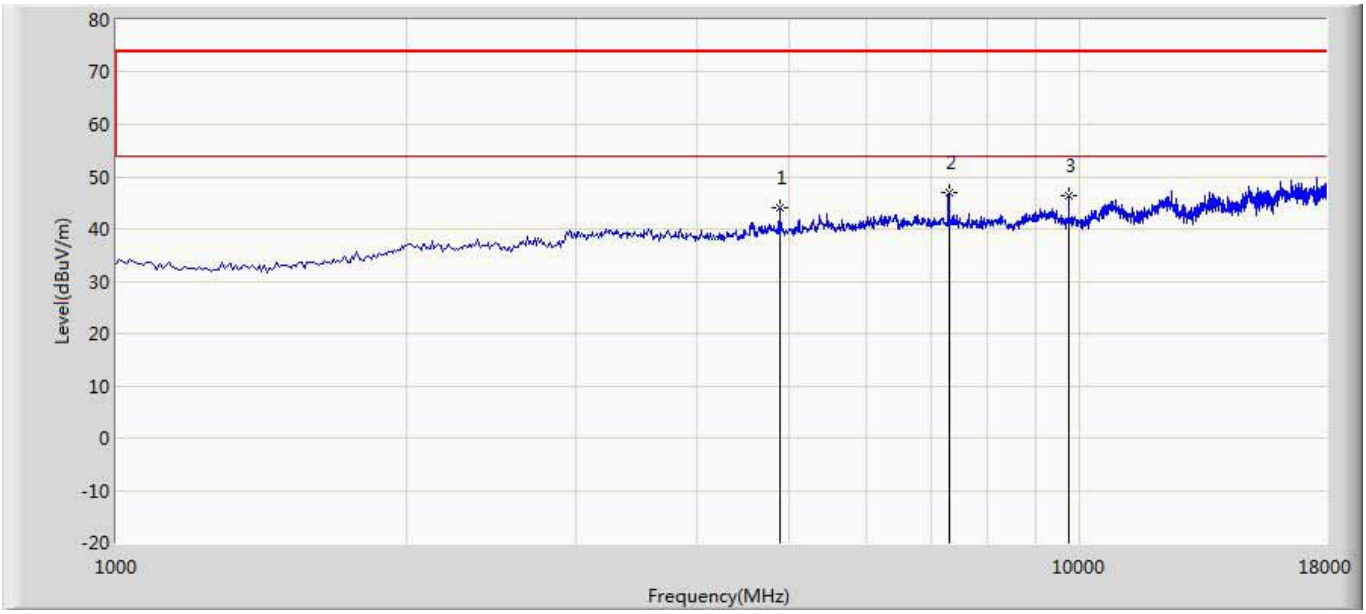
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	41.881	49.612	-32.119	74.000	-7.731	PK
2	*	7236.000	43.127	47.600	-30.873	74.000	-4.473	PK
3		9648.000	42.878	43.868	-31.122	74.000	-0.989	PK

Site: AC5	Time: 2017/02/19 - 14:53
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2437MHZ by 802.11b	



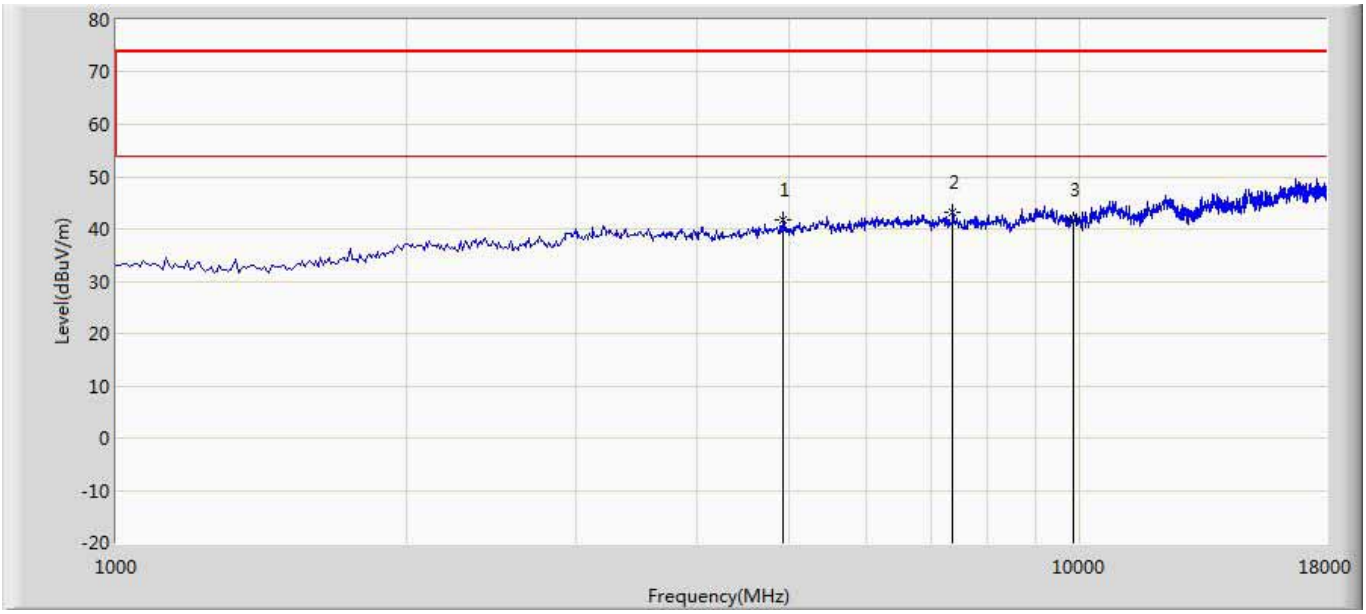
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4876.000	48.517	56.031	-25.483	74.000	-7.514	PK
2		7307.000	51.233	55.592	-22.767	74.000	-4.359	PK
3	*	9746.500	52.558	54.023	-21.442	74.000	-1.465	PK

Site: AC5	Time: 2017/02/19 - 14:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2437MHZ by 802.11b	



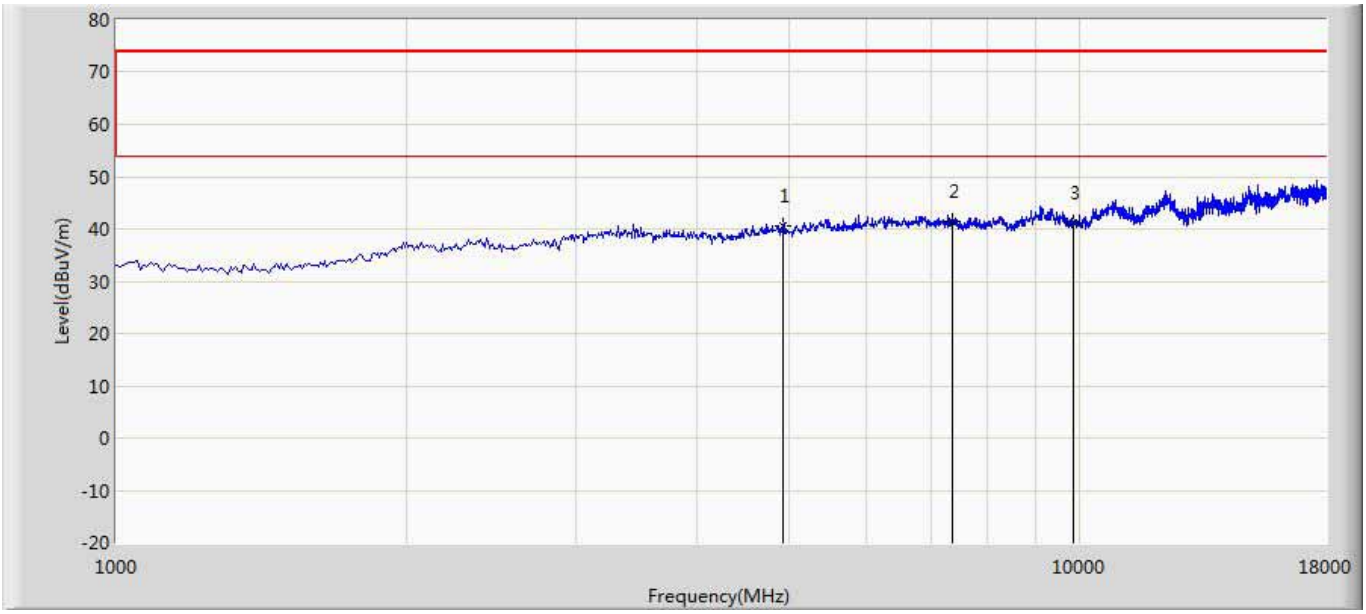
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4876.000	43.927	51.441	-30.073	74.000	-7.514	PK
2	*	7315.500	47.019	51.362	-26.981	74.000	-4.343	PK
3		9746.500	46.399	47.864	-27.601	74.000	-1.465	PK

Site: AC5	Time: 2017/02/19 - 14:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2462MHZ by 802.11b	



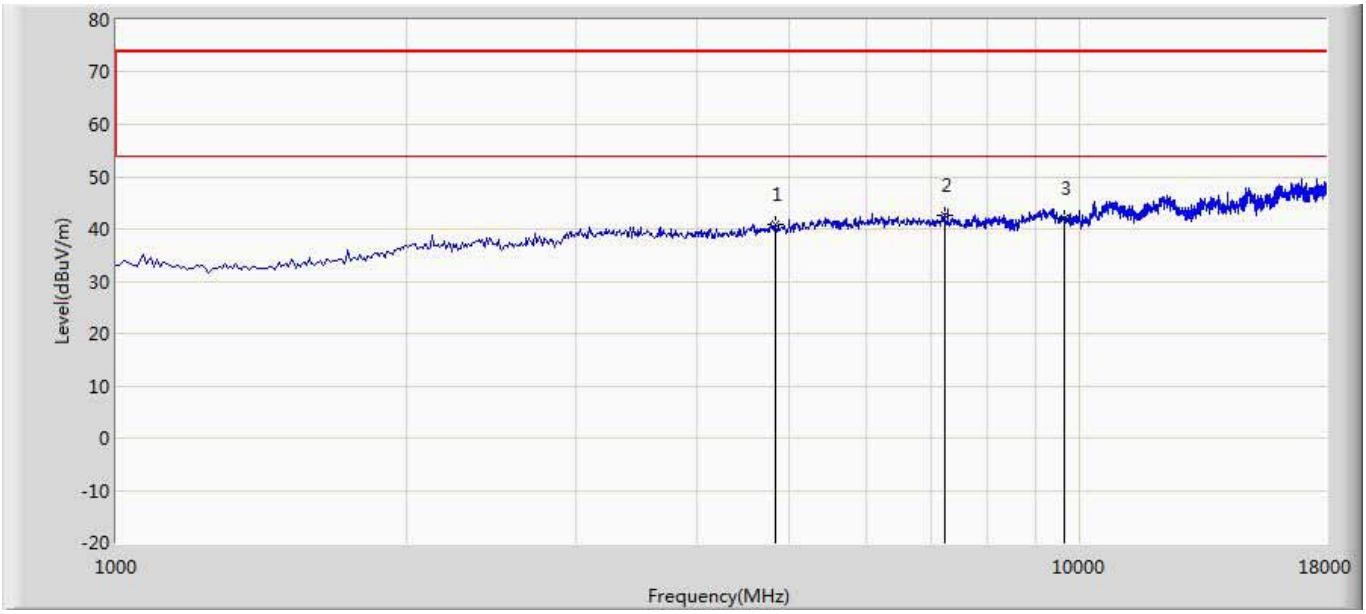
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	41.673	49.366	-32.327	74.000	-7.694	PK
2	*	7386.000	43.325	47.222	-30.675	74.000	-3.897	PK
3		9848.000	41.852	43.048	-32.148	74.000	-1.196	PK

Site: AC5	Time: 2017/02/19 - 15:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2462MHZ by 802.11b	



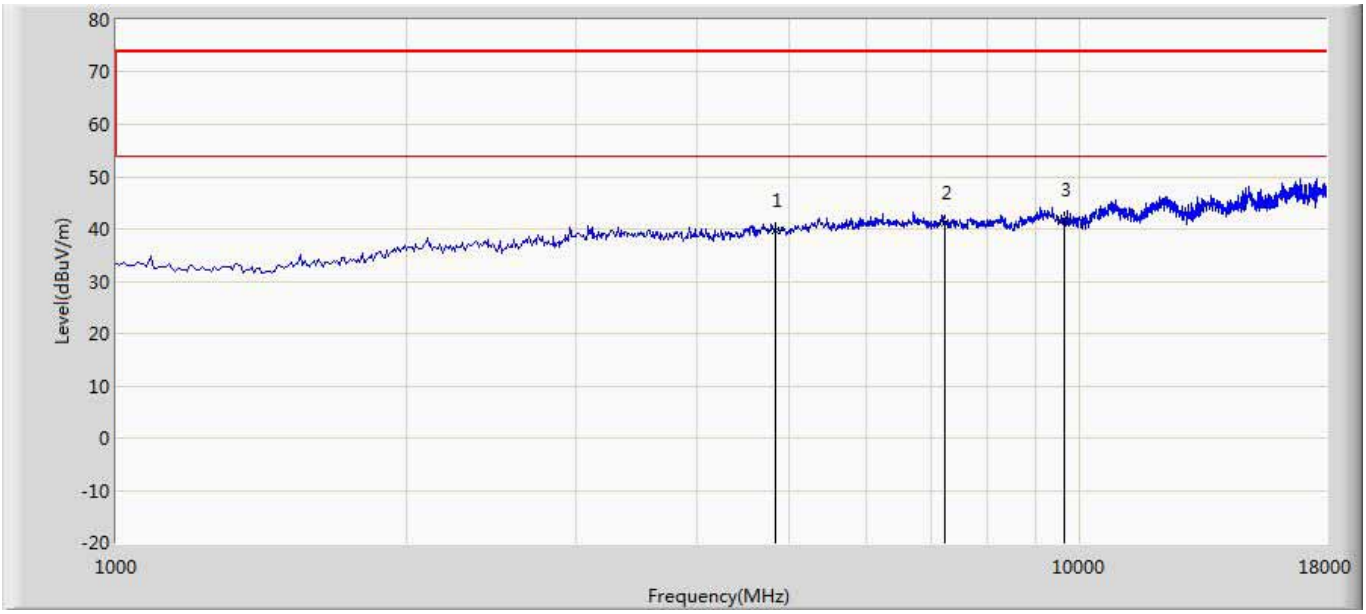
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	40.477	48.170	-33.523	74.000	-7.694	PK
2	*	7386.000	41.559	45.456	-32.441	74.000	-3.897	PK
3		9848.000	41.078	42.274	-32.922	74.000	-1.196	PK

Site: AC5	Time: 2017/02/19 - 15:03
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2412MHZ by 802.11g	



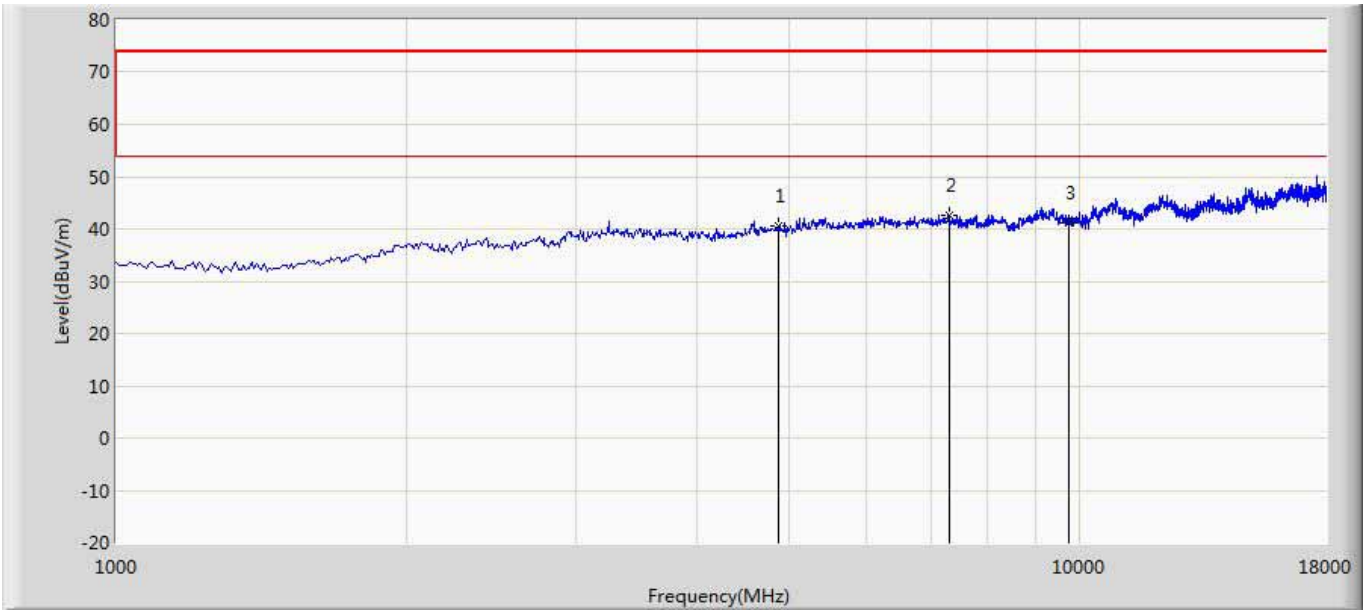
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	40.767	48.498	-33.233	74.000	-7.731	PK
2	*	7236.000	42.723	47.196	-31.277	74.000	-4.473	PK
3		9648.000	42.041	43.031	-31.959	74.000	-0.989	PK

Site: AC5	Time: 2017/02/19 - 15:17
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2412MHZ by 802.11g	



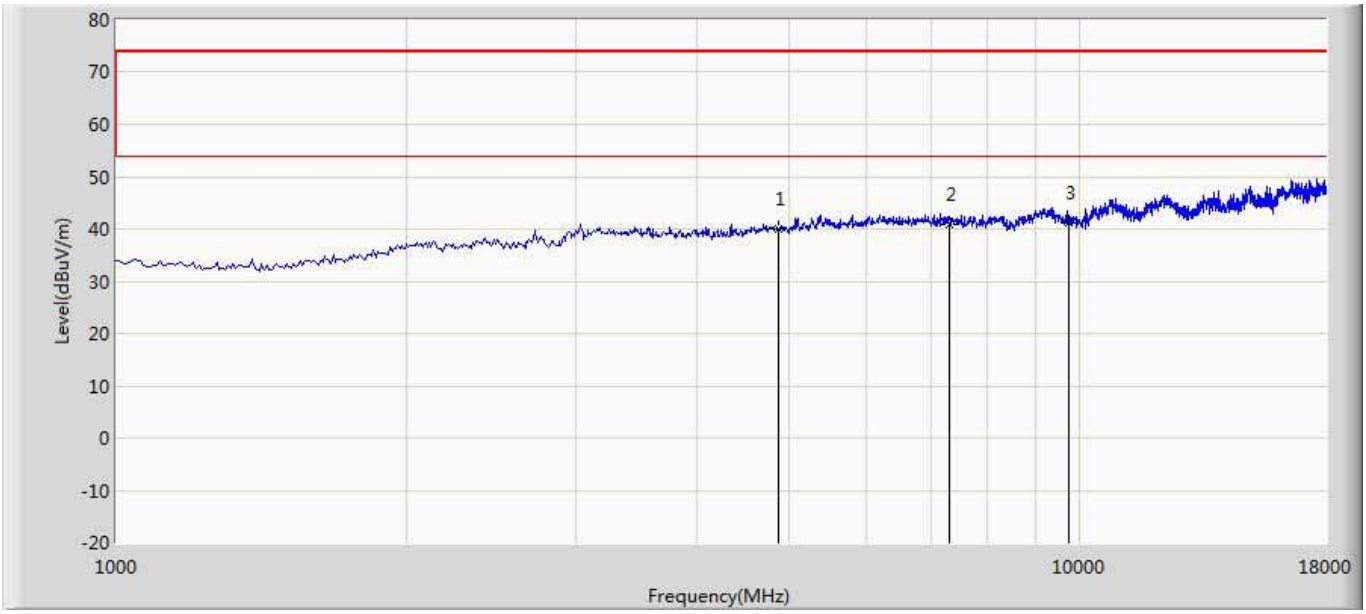
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	39.633	47.364	-34.367	74.000	-7.731	PK
2		7236.000	41.216	45.689	-32.784	74.000	-4.473	PK
3	*	9648.000	41.748	42.738	-32.252	74.000	-0.989	PK

Site: AC5	Time: 2017/02/19 - 15:20
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2437MHZ by 802.11g	



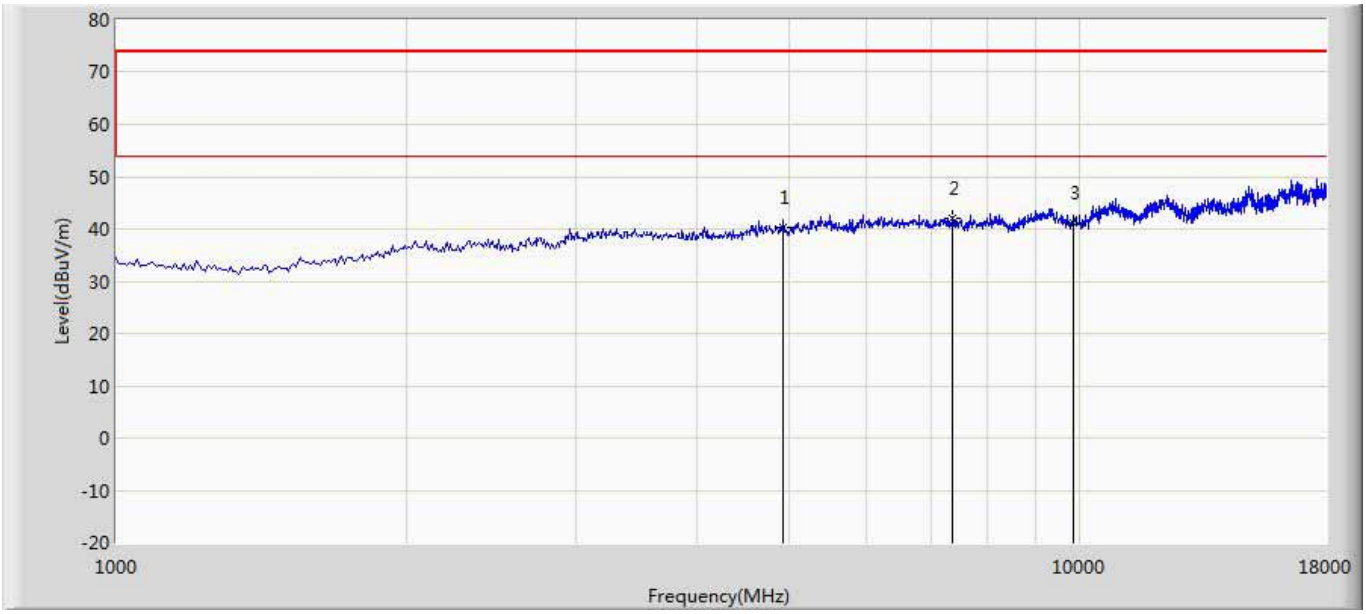
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	40.491	48.034	-33.509	74.000	-7.543	PK
2	*	7311.000	42.752	47.100	-31.248	74.000	-4.348	PK
3		9748.000	41.151	42.700	-32.849	74.000	-1.548	PK

Site: AC5	Time: 2017/02/19 - 15:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2437MHZ by 802.11g	



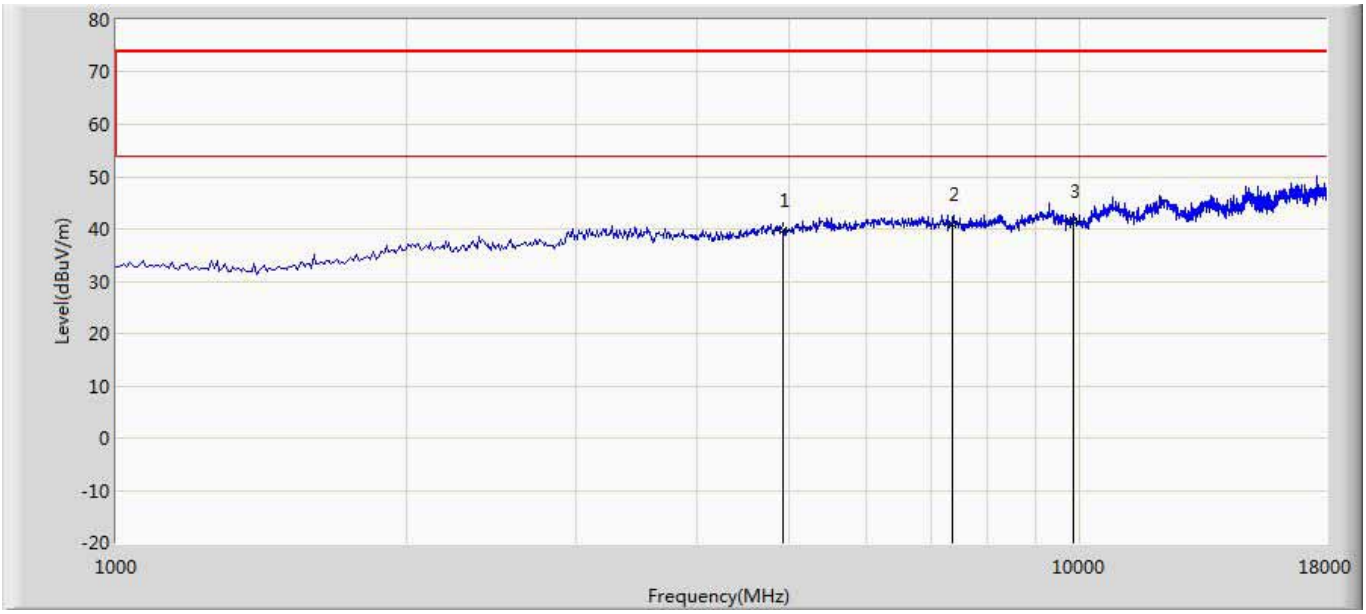
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	39.984	47.527	-34.016	74.000	-7.543	PK
2		7311.000	40.929	45.277	-33.071	74.000	-4.348	PK
3	*	9748.000	41.171	42.720	-32.829	74.000	-1.548	PK

Site: AC5	Time: 2017/02/19 - 15:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2462MHZ by 802.11g	



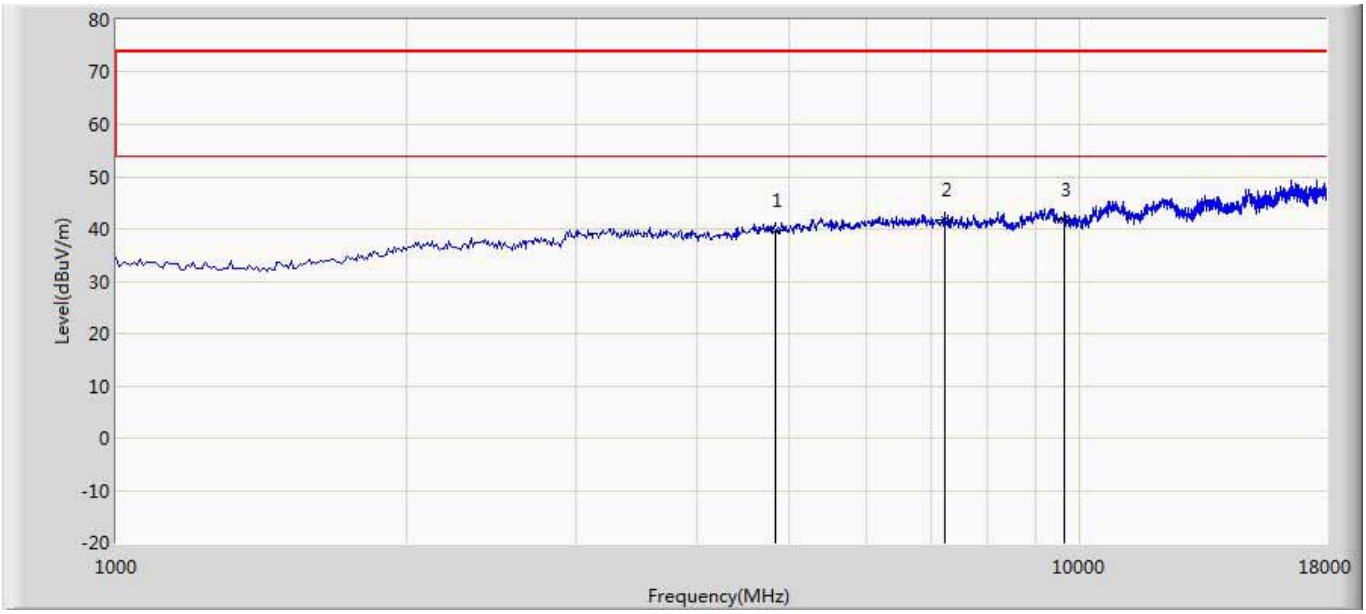
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	40.417	48.110	-33.583	74.000	-7.694	PK
2	*	7386.000	42.005	45.902	-31.995	74.000	-3.897	PK
3		9848.000	41.259	42.455	-32.741	74.000	-1.196	PK

Site: AC5	Time: 2017/02/19 - 15:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2462MHZ by 802.11g	



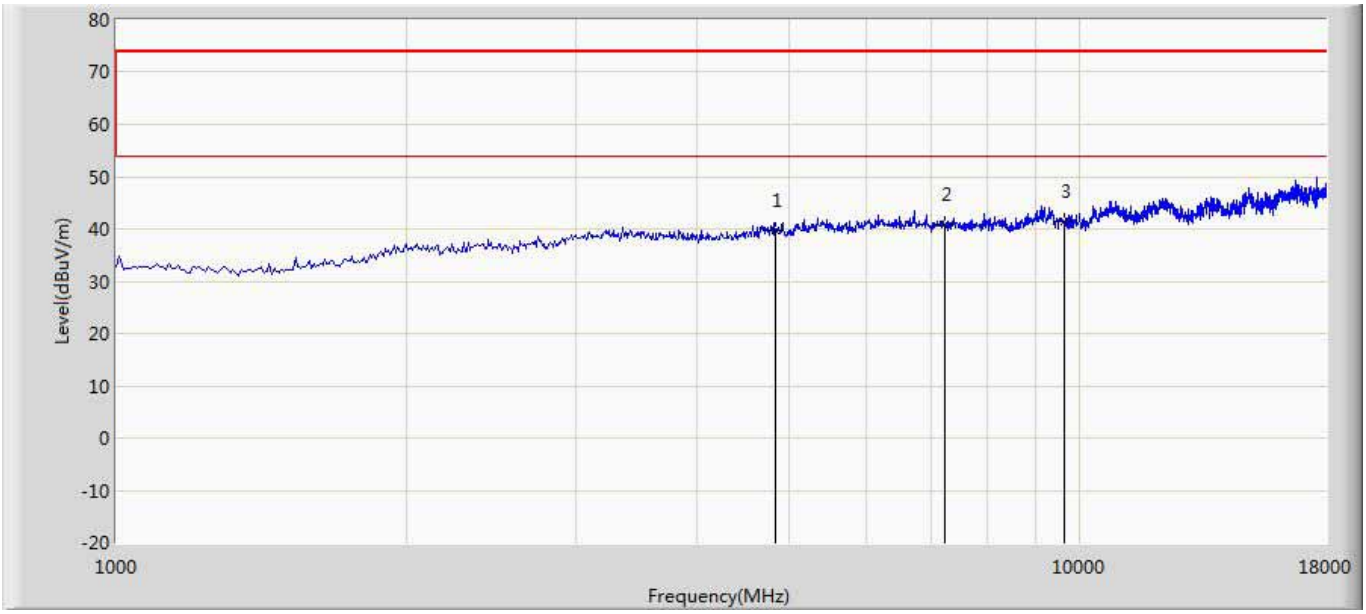
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	39.713	47.406	-34.287	74.000	-7.694	PK
2		7386.000	41.002	44.899	-32.998	74.000	-3.897	PK
3	*	9848.000	41.536	42.732	-32.464	74.000	-1.196	PK

Site: AC5	Time: 2017/02/19 - 15:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2412MHZ by 802.11n20	



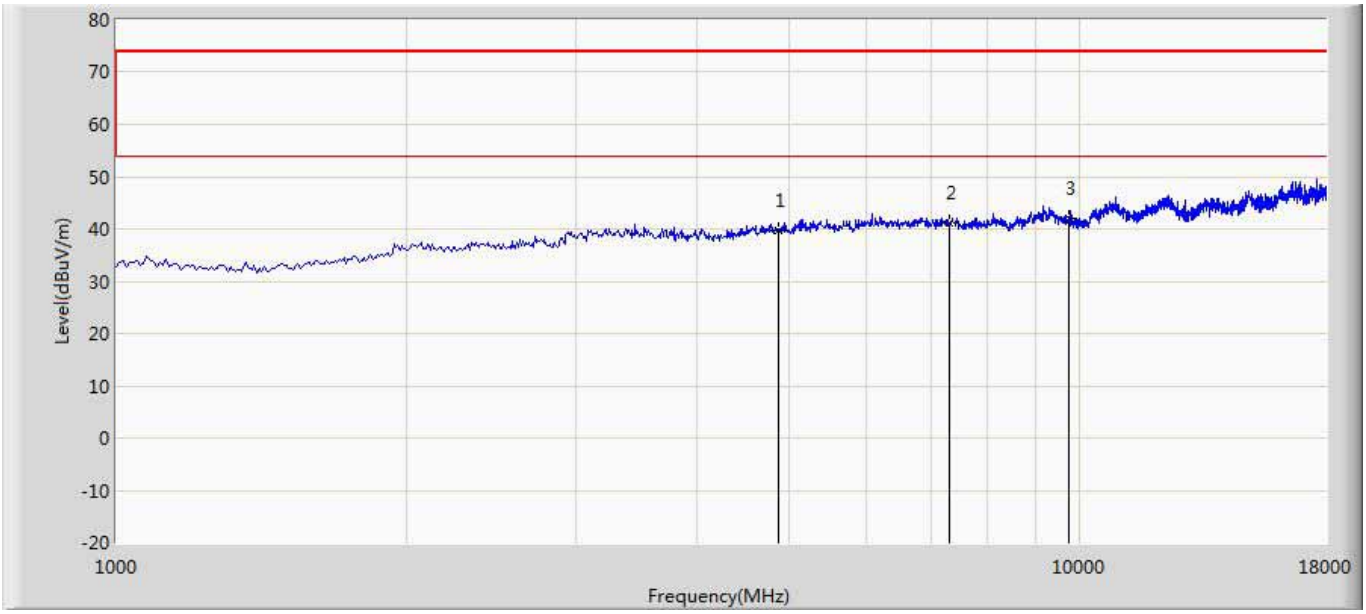
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	39.675	47.406	-34.325	74.000	-7.731	PK
2		7236.000	41.692	46.165	-32.308	74.000	-4.473	PK
3	*	9648.000	41.853	42.843	-32.147	74.000	-0.989	PK

Site: AC5	Time: 2017/02/19 - 15:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2412MHZ by 802.11n20	



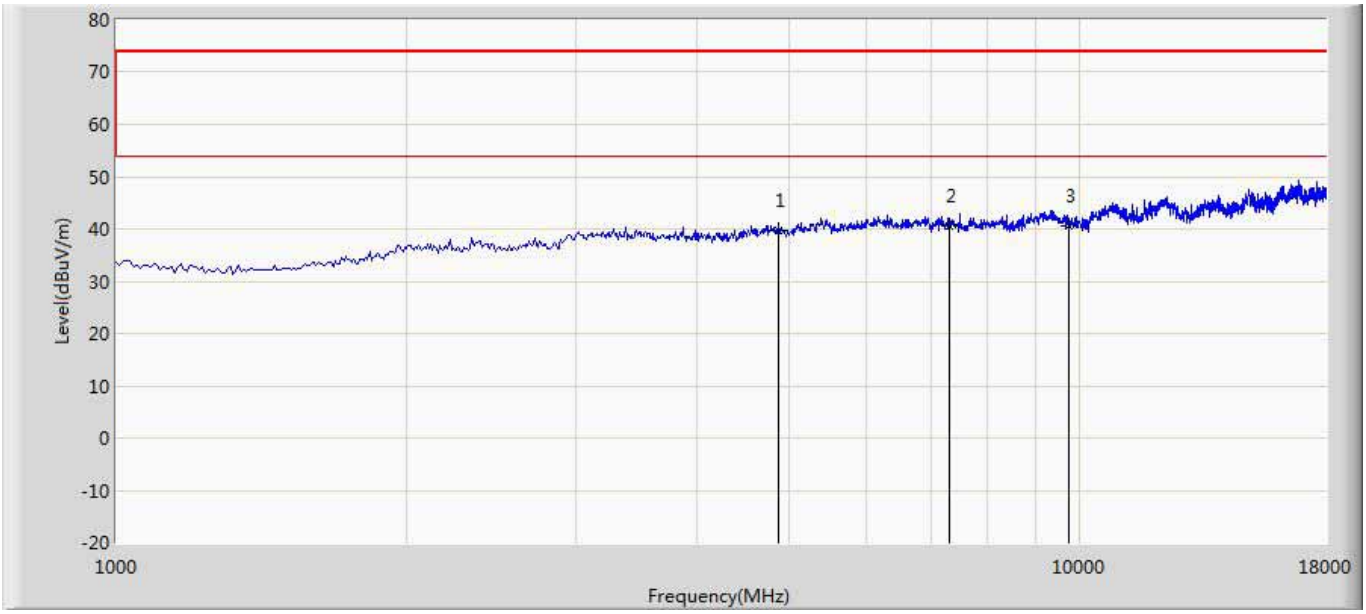
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	39.647	47.378	-34.353	74.000	-7.731	PK
2		7236.000	40.761	45.234	-33.239	74.000	-4.473	PK
3	*	9648.000	41.422	42.412	-32.578	74.000	-0.989	PK

Site: AC5	Time: 2017/02/19 - 15:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2437MHZ by 802.11n20	



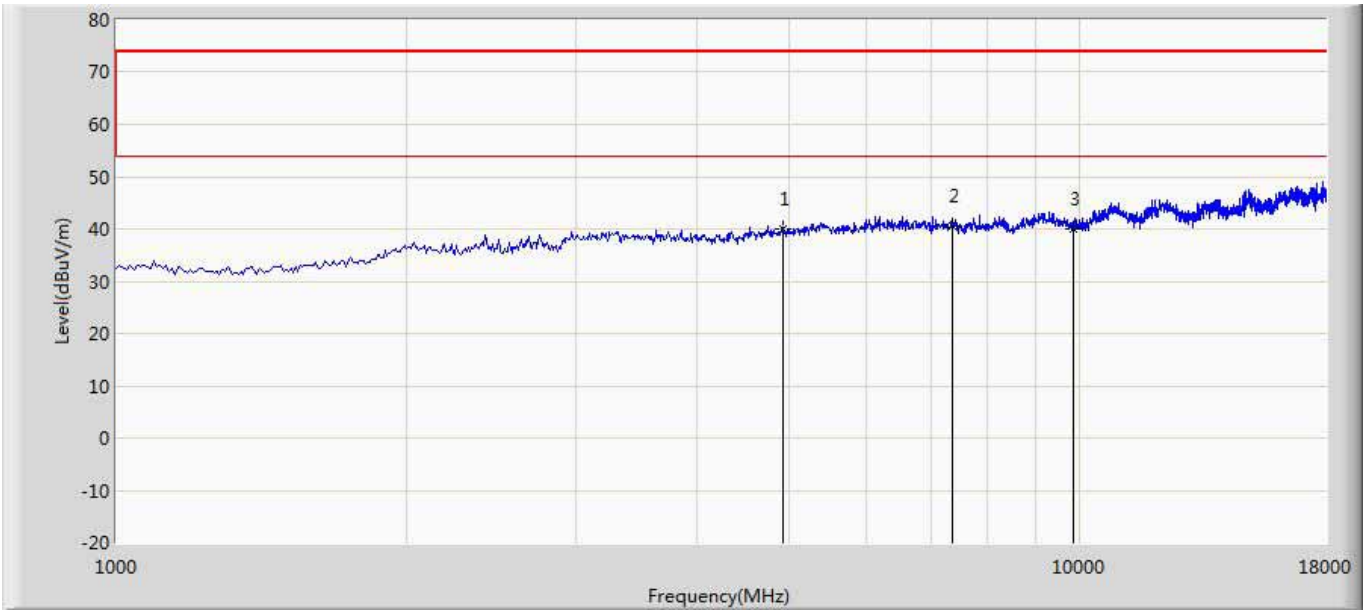
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	39.752	47.295	-34.248	74.000	-7.543	PK
2		7311.000	41.116	45.464	-32.884	74.000	-4.348	PK
3	*	9748.000	41.893	43.442	-32.107	74.000	-1.548	PK

Site: AC5	Time: 2017/02/19 - 15:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2437MHZ by 802.11n20	



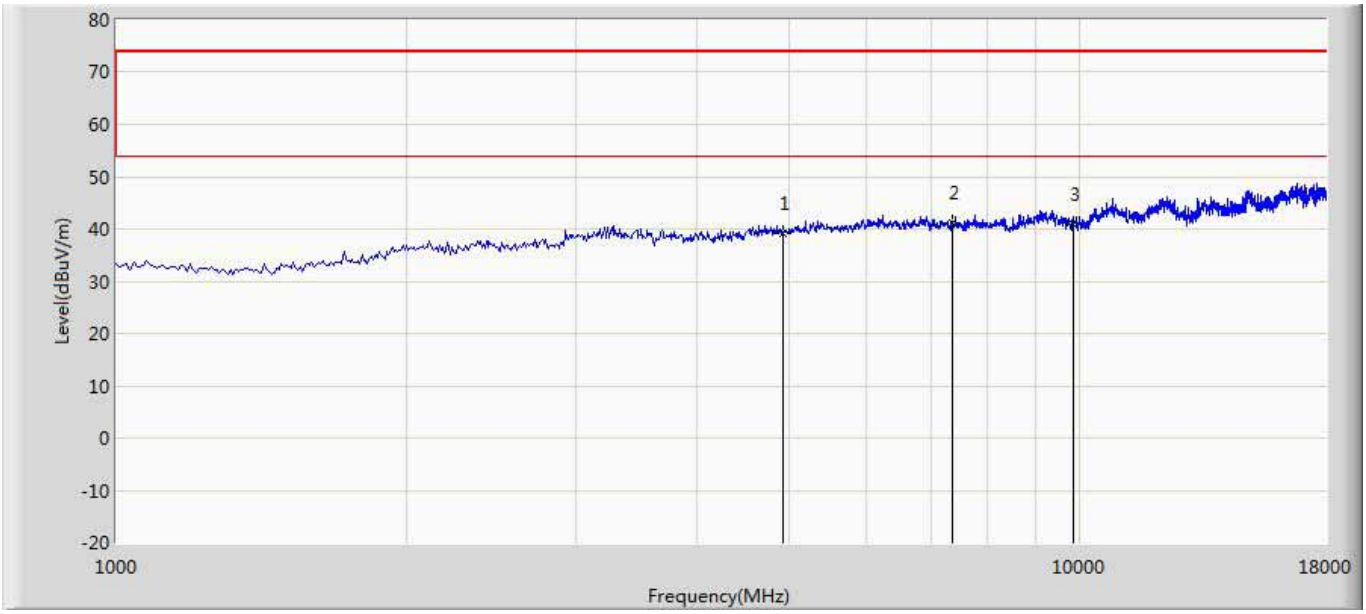
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	39.583	47.126	-34.417	74.000	-7.543	PK
2		7311.000	40.520	44.868	-33.480	74.000	-4.348	PK
3	*	9748.000	40.586	42.135	-33.414	74.000	-1.548	PK

Site: AC5	Time: 2017/02/19 - 15:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2462MHZ by 802.11n20	



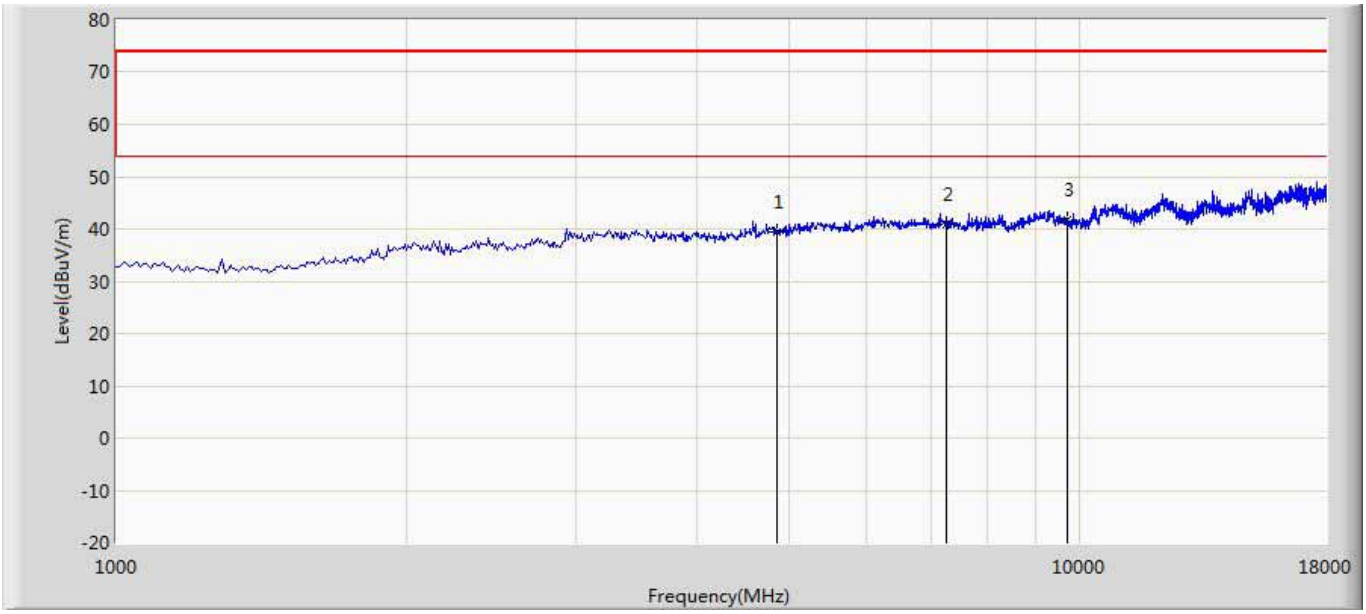
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	40.004	47.697	-33.996	74.000	-7.694	PK
2	*	7386.000	40.701	44.598	-33.299	74.000	-3.897	PK
3		9848.000	40.119	41.315	-33.881	74.000	-1.196	PK

Site: AC5	Time: 2017/02/19 - 15:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2462MHZ by 802.11n20	



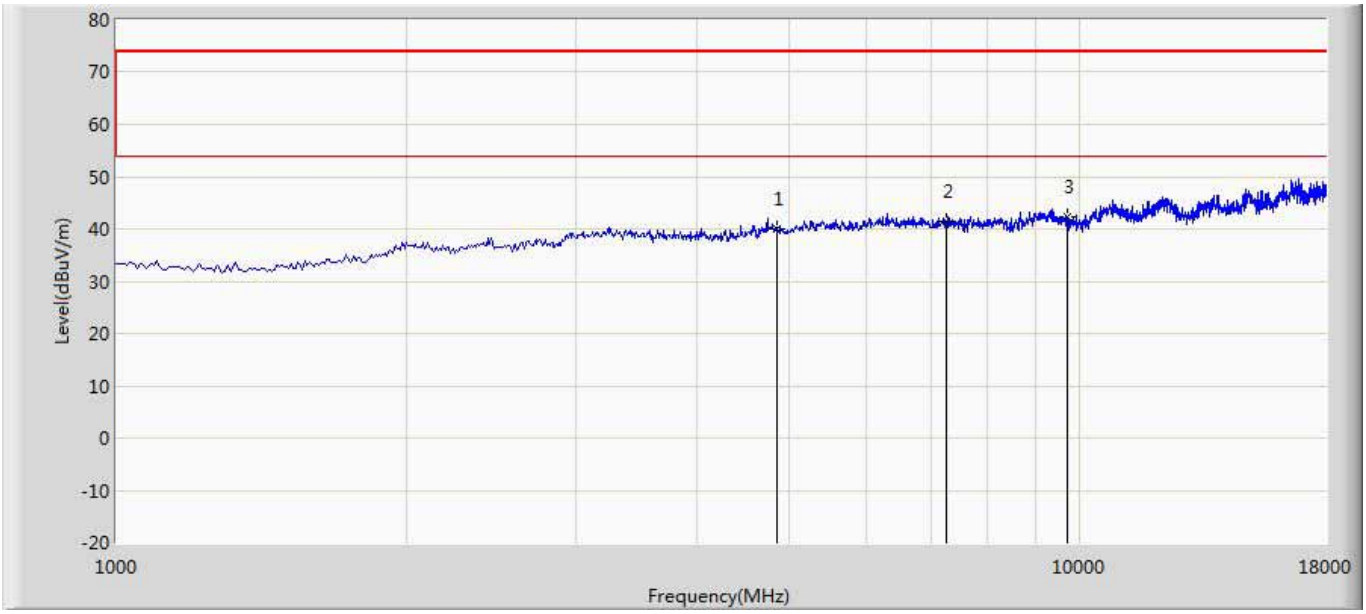
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	39.173	46.866	-34.827	74.000	-7.694	PK
2	*	7386.000	41.272	45.169	-32.728	74.000	-3.897	PK
3		9848.000	40.738	41.934	-33.262	74.000	-1.196	PK

Site: AC5	Time: 2017/02/19 - 15:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2422MHZ by 802.11n40	



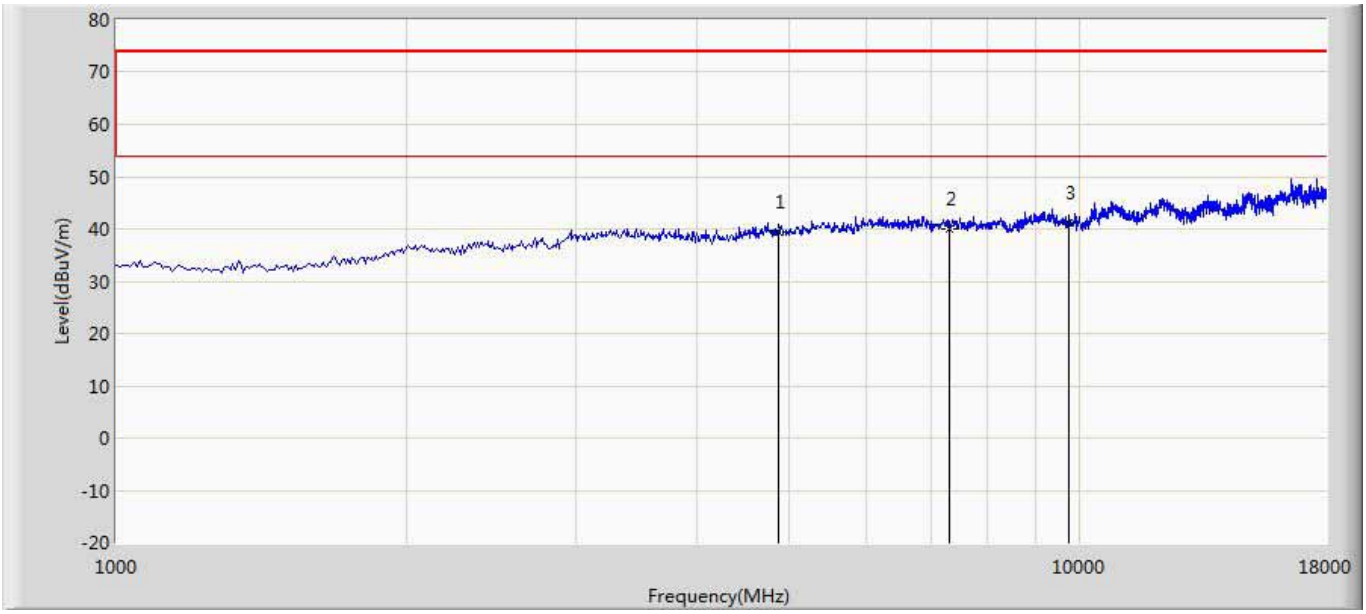
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4844.000	39.558	47.284	-34.442	74.000	-7.726	PK
2		7266.000	40.822	45.040	-33.178	74.000	-4.218	PK
3	*	9688.000	41.884	42.529	-32.116	74.000	-0.645	PK

Site: AC5	Time: 2017/02/19 - 15:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2422MHZ by 802.11n40	



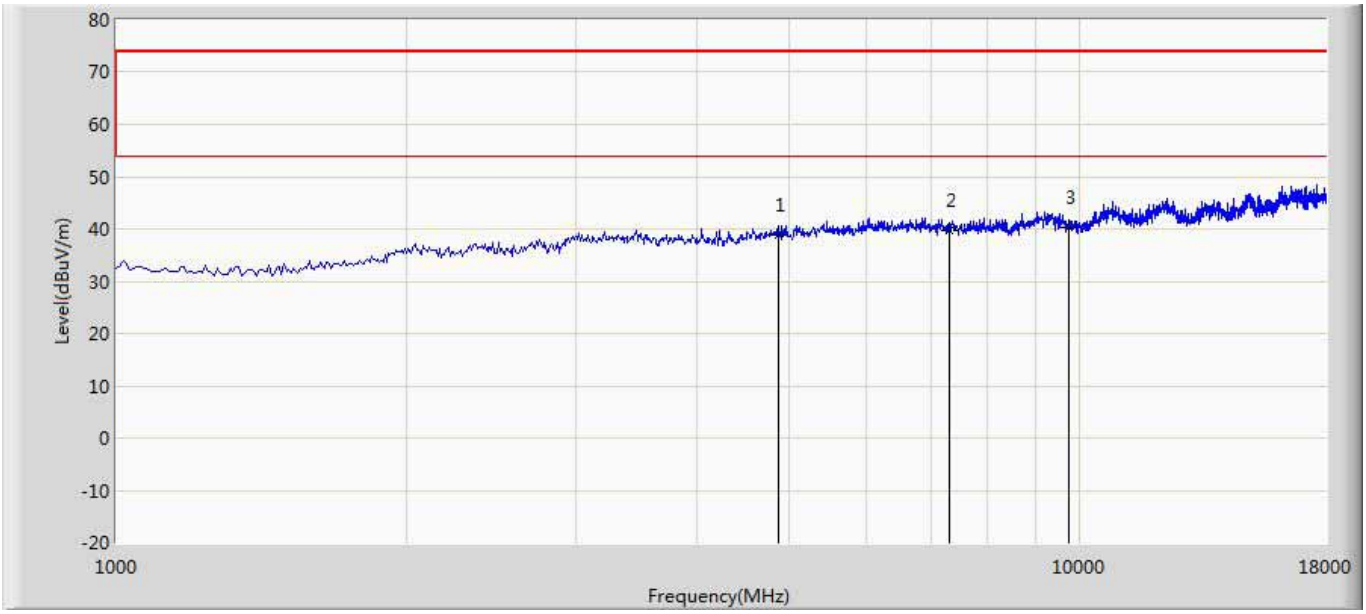
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4844.000	40.041	47.767	-33.959	74.000	-7.726	PK
2		7266.000	41.307	45.525	-32.693	74.000	-4.218	PK
3	*	9688.000	42.215	42.860	-31.785	74.000	-0.645	PK

Site: AC5	Time: 2017/02/19 - 15:52
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2437MHZ by 802.11n40	



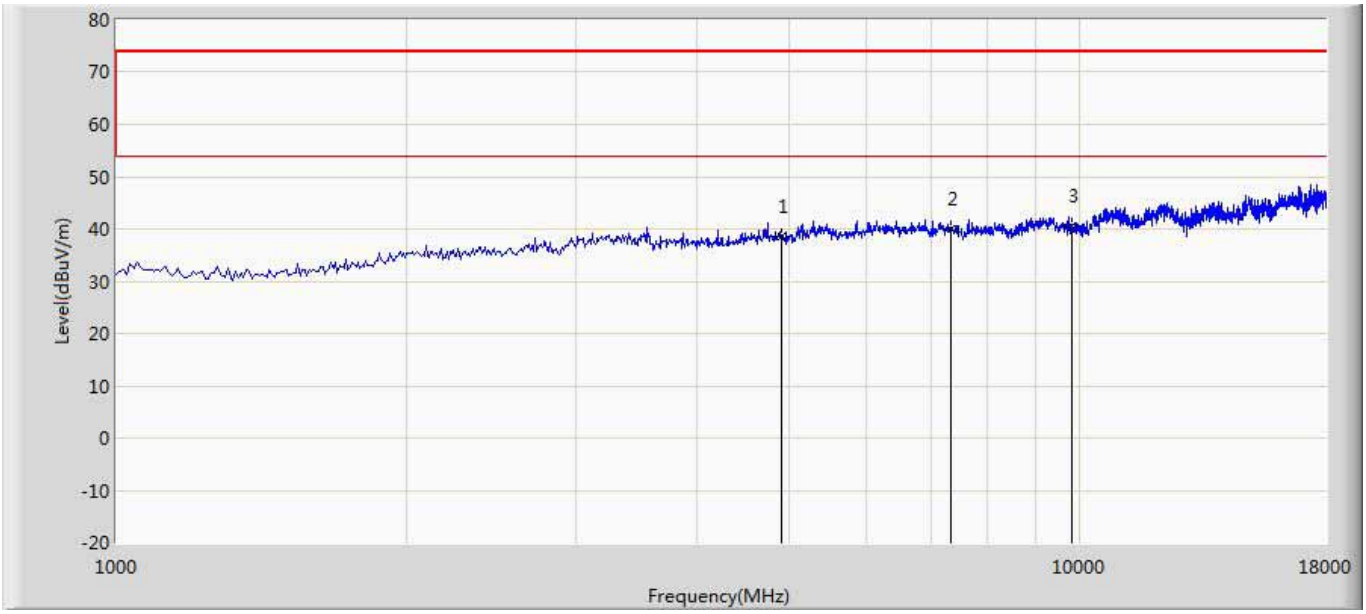
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	39.437	46.980	-34.563	74.000	-7.543	PK
2		7311.000	40.134	44.482	-33.866	74.000	-4.348	PK
3	*	9748.000	41.280	42.829	-32.720	74.000	-1.548	PK

Site: AC5	Time: 2017/02/19 - 15:54
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2437MHZ by 802.11n40	



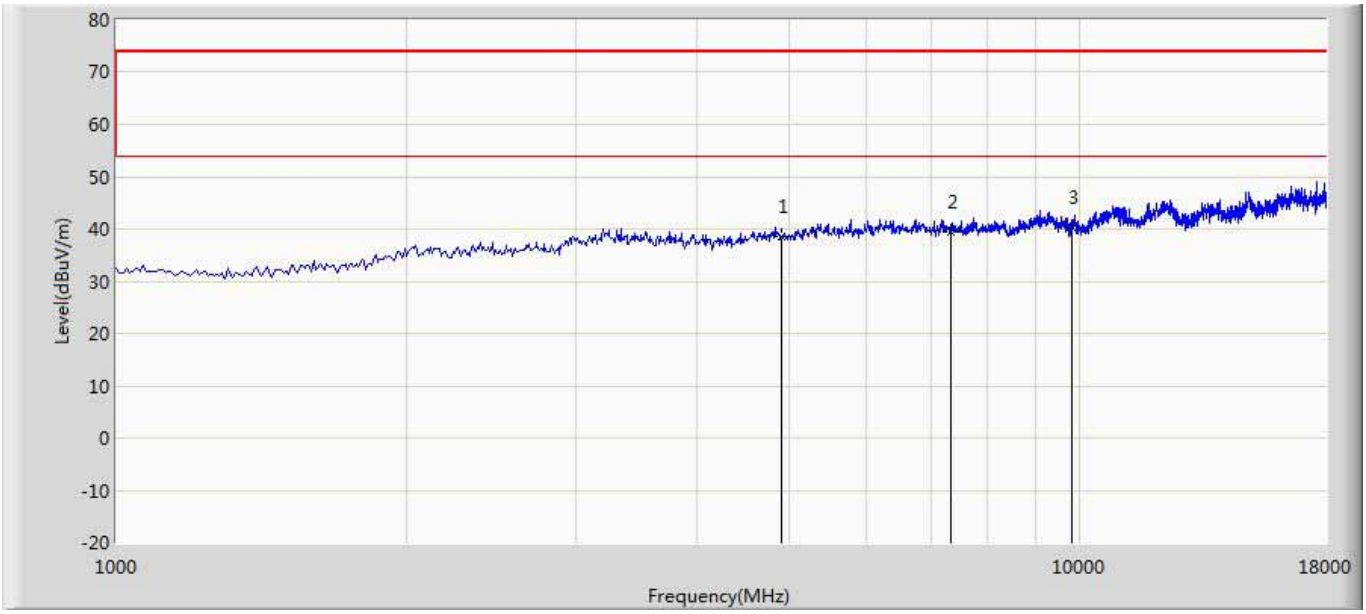
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	38.981	46.524	-35.019	74.000	-7.543	PK
2		7311.000	39.603	43.951	-34.397	74.000	-4.348	PK
3	*	9748.000	40.413	41.962	-33.587	74.000	-1.548	PK

Site: AC5	Time: 2017/02/19 - 15:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2452MHZ by 802.11n40	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4904.000	38.679	46.227	-35.321	74.000	-7.547	PK
2		7356.000	40.066	44.375	-33.934	74.000	-4.309	PK
3	*	9808.000	40.535	41.528	-33.465	74.000	-0.994	PK

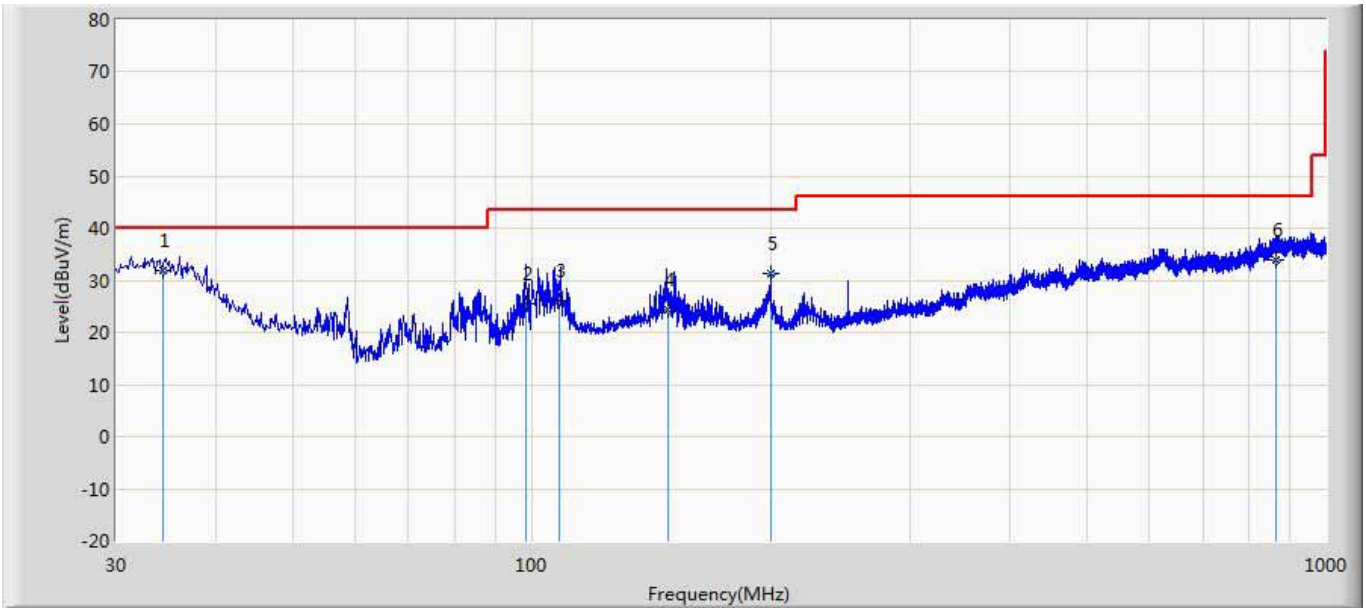
Site: AC5	Time: 2017/02/19 - 15:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2452MHZ by 802.11n40	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4904.000	38.412	45.960	-35.588	74.000	-7.547	PK
2		7356.000	39.556	43.865	-34.444	74.000	-4.309	PK
3	*	9808.000	40.335	41.328	-33.665	74.000	-0.994	PK

The worst case of Radiated Emission below 1GHz:

Site: AC2	Time: 2017/05/09
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: CB7_CBL6112_0726	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1	

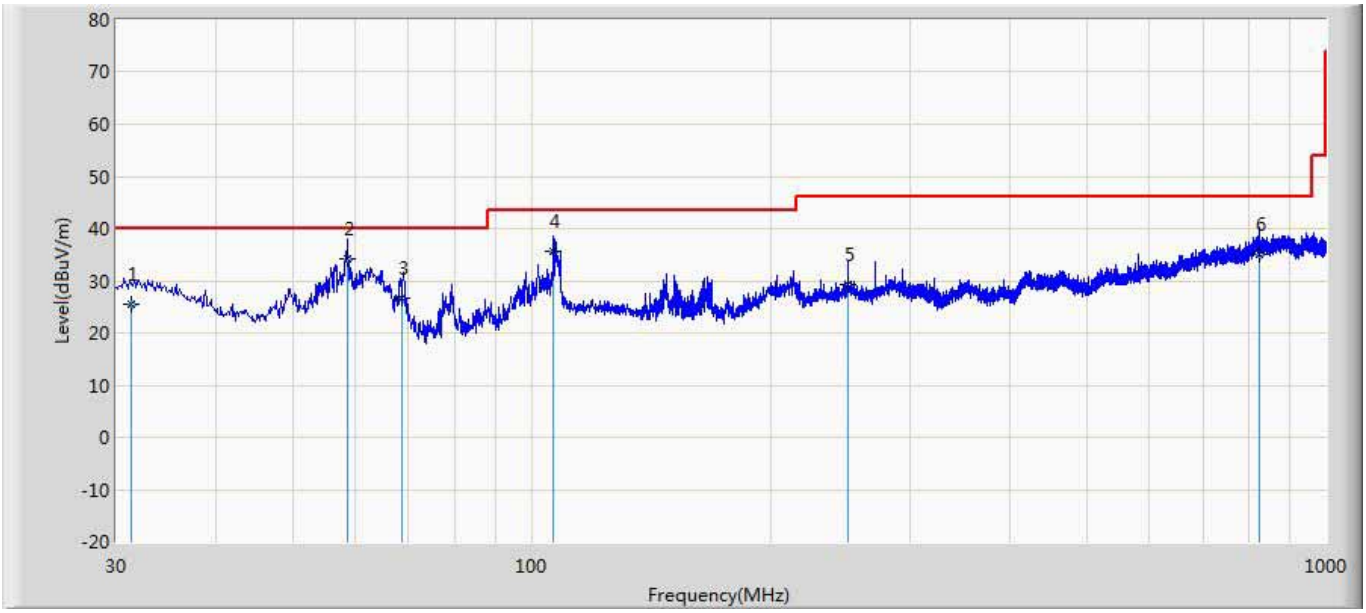


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1	*	34.379	31.926	38.191	-8.074	40.000	16.260	0.635	23.160	200	359	QP
2		98.493	25.447	36.738	-18.053	43.500	10.799	1.076	23.166	200	295	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_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: CB7_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).

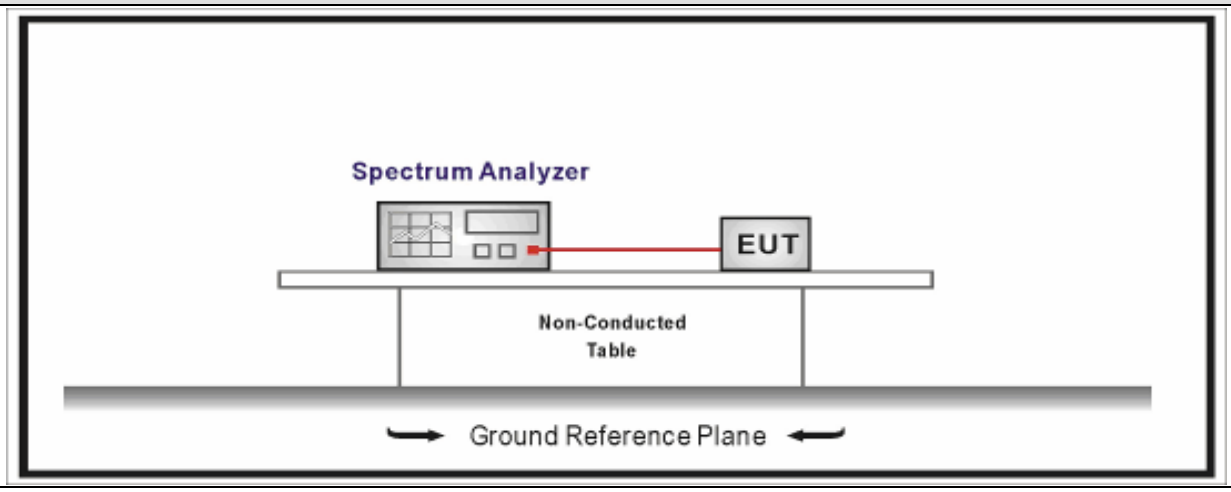
5. Emissions in non-restricted frequency bands

5.1. Test Equipment

Occupied Bandwidth / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2016.02.04	2017.02.03
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2016.04.09	2017.04.08
MXA Signal Anlyzer	Keysight	N9020A	MY56060147	2016.04.09	2017.04.08
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2016.04.10	2017.04.09
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

5.2. Test Setup

Occupied Bandwidth test setup:



5.3. Limit

Un-Restricted Band Emissions Limit	
RF Output power (Detection methods)	Limit(dB)
RF Output power(Average detector)	30c(Note1)
RF Output power(PK detector)	20c(Note2)

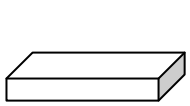
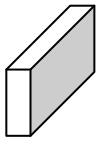
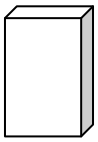
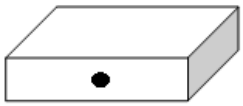
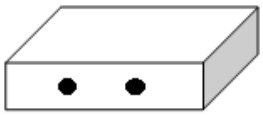
Note 1: If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 30 dBc).

Note 2: If the maximum peak conducted output power procedure was used, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 20 dBc).

5.4. Test Procedure

Test Method					
	References Rule			Chapter	Description
☒	ANSI C63.10			11.11	Emissions in non-restricted frequency bands
	☒	ANSI C63.10		11.11.2	Reference level measurement
	☒	ANSI C63.10		11.11.3	Emission level measurement
☐	ANSI C63.10			11.12	Emissions in restricted frequency bands
	☐	ANSI C63.10		11.12.1	Radiated emission measurements
	☐	ANSI C63.10		11.12.2.7	Radiated spurious emission test
☐	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
	☒	ANSI C63.10		11.12.2	Antenna-port conducted measurements
		☐	ANSI C63.10	11.12.2.3	Quasi-peak measurement procedure
		☒	ANSI C63.10	11.12.2.4	Peak power measurement procedure
		☐	ANSI C63.10	11.12.2.5	Average power measurement procedures
			☐ ANSI C63.10	11.12.2.5.1	Trace averaging with continuous EUT transmission at full power
			☐ ANSI C63.10	11.12.2.5.2	Trace averaging across ON and OFF times of the EUT transmissions followed by duty cycle correction
			☐ ANSI C63.10	11.12.2.5.3	Reduced VBW averaging across ON and OFF times of the EUT transmissions with max hold

5.5. EUT test Axis definition

<table>
<tr><td>Item</td><td colspan="4">Emissions in non-restricted frequency bands</td></tr>
<tr><td rowspan="2">Device Category</td><td>☐</td><td colspan="3">Fixed position use</td></tr>
<tr><td>☒</td><td colspan="3">Mobile position use</td></tr>
<tr><td>Test mode</td><td colspan="4">Mode 1 ~ Mode 4</td></tr>
<tr><td rowspan="13">Test method</td><td>☐</td><td colspan="3">Radiated</td></tr>
<tr><td rowspan="3"></td><td>X Axis</td><td>Y Axis</td><td>Z Axis</td></tr>
<tr><td>  </td><td>  </td><td>  </td></tr>
<tr><td>Worst Axis ☐</td><td>Worst Axis ☐</td><td>Worst Axis ☐</td></tr>
<tr><td>☒</td><td colspan="3">Conducted</td></tr>
<tr><td>☐</td><td colspan="3">Chain 0</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☒</td><td>Chain 0</td><td colspan="2">Chain 1</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☐</td><td>Chain 0</td><td>Chain 1</td><td>Chain 2</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
</table>

5.6. Test Result

Product Name	:	AC1200 Wireless Dual Band Router	Power	:	AC 120V/60Hz
Test Mode	:	Mode1~4	Test Site	:	TR8
Mode No.	:	Archer C50	Test Date	:	2016.12.01

Antenna #0

Mode	Channel	Test Frequency (MHz)	In-Band PSD[a] (dBm/100kHz)	Frequency (MHz)	Out-Band PSD[b] (dBm/100kHz)	[a]-[b] (dB)	Limit (dB)	Result
1	01	2412	10.002	2398.038	-27.902	37.904	>30	Pass
1	11	2462	8.569	2487.978	-46.360	54.929	>30	Pass
2	01	2412	4.341	2398.236	-29.221	33.562	>30	Pass
2	11	2462	4.040	2483.5	-47.175	51.215	>30	Pass
3	01	2412	4.061	2399.487	-29.568	33.629	>30	Pass
3	11	2462	4.437	2483.5	-45.586	50.023	>30	Pass
4	03	2422	-1.287	2400.0	-42.507	41.220	>30	Pass
4	09	2452	-0.463	2483.5	-49.361	48.898	>30	Pass

Note 1: The worst case of Emissions in non-restricted frequency bands as below:

2: As the radiated emission was performed, so conducted emission was only tested for the nearest emission of fundamental frequency.

Mode 2 CH01(2412MHz)

Antenna #1

Mode	Channel	Test Frequency (MHz)	In-Band PSD[a] (dBm/100kHz)	Frequency (MHz)	Out-Band PSD[b] (dBm/100kHz)	[a]-[b] (dB)	Limit (dB)	Result
1	01	2412	9.924	2397.994	-26.540	36.464	>30	Pass
1	11	2462	9.336	2488.921	-47.435	56.771	>30	Pass
2	01	2412	4.467	2398.227	-29.289	33.756	>30	Pass
2	11	2462	4.130	2483.5	-47.919	52.049	>30	Pass
3	01	2412	4.00	2399.496	-29.914	33.914	>30	Pass
3	11	2462	4.453	2483.5	-47.152	51.605	>30	Pass
4	03	2422	-0.767	2400.0	-41.971	41.204	>30	Pass
4	09	2452	-0.517	2483.5	-48.725	48.208	>30	Pass

Note 1: The worst case of Emissions in non-restricted frequency bands as below:

2: As the radiated emission was performed, so conducted emission was only tested for the nearest emission of fundamental frequency.

Mode 3 CH01(2412MHz)

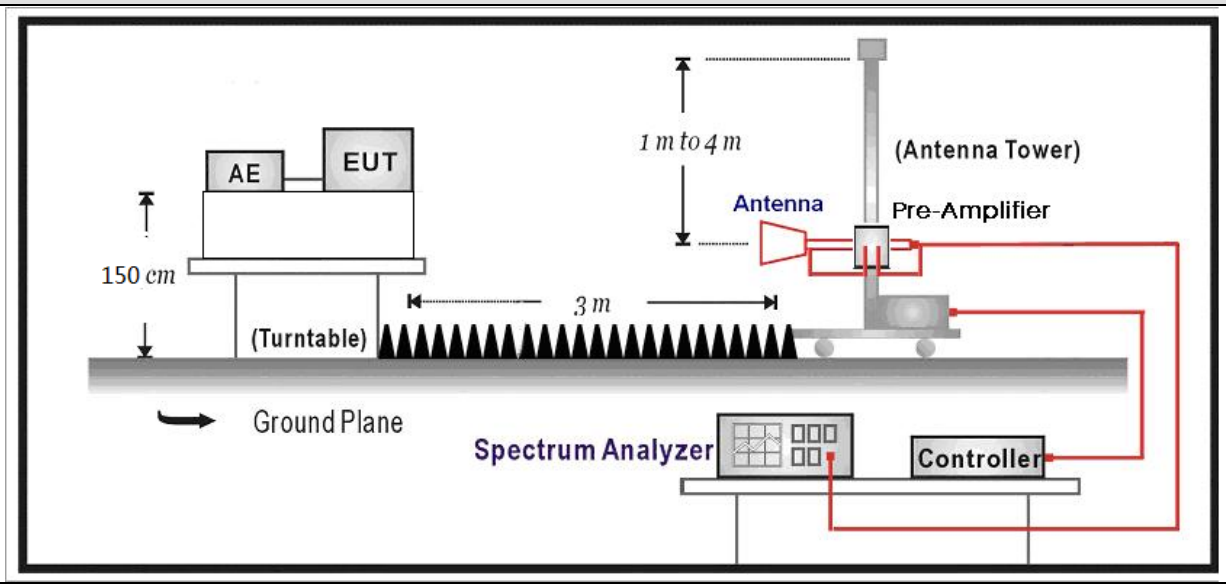
6. Radiated Emission Band Edge

6.1. Test Equipment

Radiated Emission(Above 1GHz) / AC-5					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Receiver	Agilent	N9038A	MY51210196	2016.07.16	2017.07.15
Pre-Amplifier	Miteq	NSP1800-25	1364185	2016.05.03	2017.05.02
DRG Horn Antenna	ETS-Lindgren	3117	00167055	2016.07.12	2017.07.11
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2016.09.18	2017.09.17
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C1	2016.02.28	2017.02.27
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2016.02.28	2017.02.27
Temperature/Humidity Meter	Zhichen	ZC1-2	AC5-TH	2016.01.05	2017.01.04
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

6.2. Test Setup

Above 1GHz Test Setup:



6.3. Limit

Band edge Limit				
Frequency bands (MHz)	Detector	Limit (dB μ V/m)	RBW (MHz)	Distance (m)
2310-2390 2483.5-2500	PK	74	1	3
	AV	54	1	3
Note: The field strength of emissions appearing within these frequency bands shall not exceed the limits.				

6.4. Test Procedure

Test Method						
	References Rule				Chapter	Description
☒	ANSI C63.10				6.10	Band-edge testing
	☒	ANSI C63.10			6.10.5	Restricted-band band-edge measurements
	☐	ANSI C63.10			6.10.6	Marker-delta method
☒	ANSI C63.10				11.12	Emissions in restricted frequency bands
	☒	ANSI C63.10			11.12.1	Radiated emission measurements
	☒	ANSI C63.10			11.12.2.7	Radiated spurious emission test
☐	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
		☐	ANSI C63.10		11.12.2.3	Quasi-peak measurement procedure
		☒	ANSI C63.10		11.12.2.4	Peak power measurement procedure
		☒	ANSI C63.10		11.12.2.5	Average power measurement procedures
			☐	ANSI C63.10	11.12.2.5.1	Trace averaging with continuous EUT transmission at full power
			☐	ANSI C63.10	11.12.2.5.2	Trace averaging across ON and OFF times of the EUT transmissions followed by duty cycle correction
			☒	ANSI C63.10	11.12.2.5.3	Reduced VBW averaging across ON and OFF times of the EUT transmissions with max hold

6.5. EUT test definition

<table>
<tr><td>Item</td><td colspan="4">Emissions in non-restricted frequency bands</td></tr>
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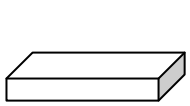
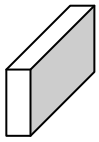
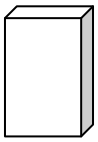
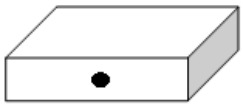
<tr><td>Test mode</td><td colspan="4">Mode 1~4</td></tr>
<tr><td rowspan="13">Test method</td><td>☒</td><td colspan="3">Radiated</td></tr>
<tr><td rowspan="3"></td><td>X Axis</td><td>Y Axis</td><td>Z Axis</td></tr>
<tr><td>  </td><td>  </td><td>  </td></tr>
<tr><td>Worst Axis ☐</td><td>Worst Axis ☐</td><td>Worst Axis ☒</td></tr>
<tr><td>☐</td><td colspan="3">Conducted</td></tr>
<tr><td>☐</td><td colspan="3">Chain 1</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
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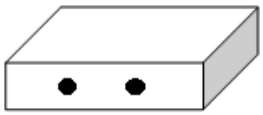
<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☐</td><td>Chain 1</td><td>Chain 2</td><td>Chain 3</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
</table>

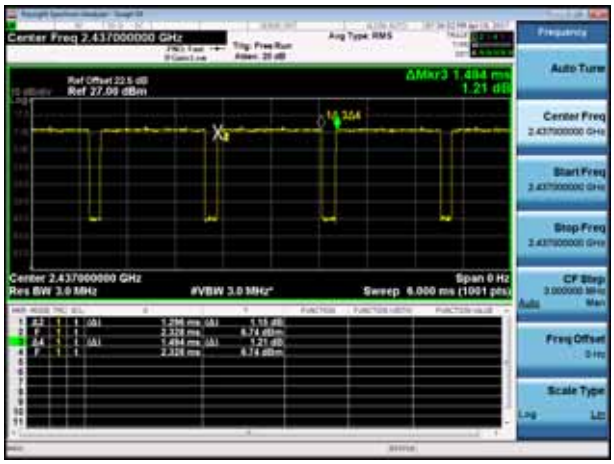
6.6. Duty Cycle

Test Mode	Tx On (ms)	Tx Off (ms)	VBW (kHz)	Tx On + Tx Off (ms)	Duty Cycle (%)
802.11b	8.380	0.160	0.2	8.540	98.13
802.11g	1.386	0.156	1.1	1.542	89.88
802.11n(20MHz)	1.296	0.198	1.1	1.494	86.75
802.11n(40MHz)	0.645	0.102	1.8	0.747	86.35

802.11b

802.11g

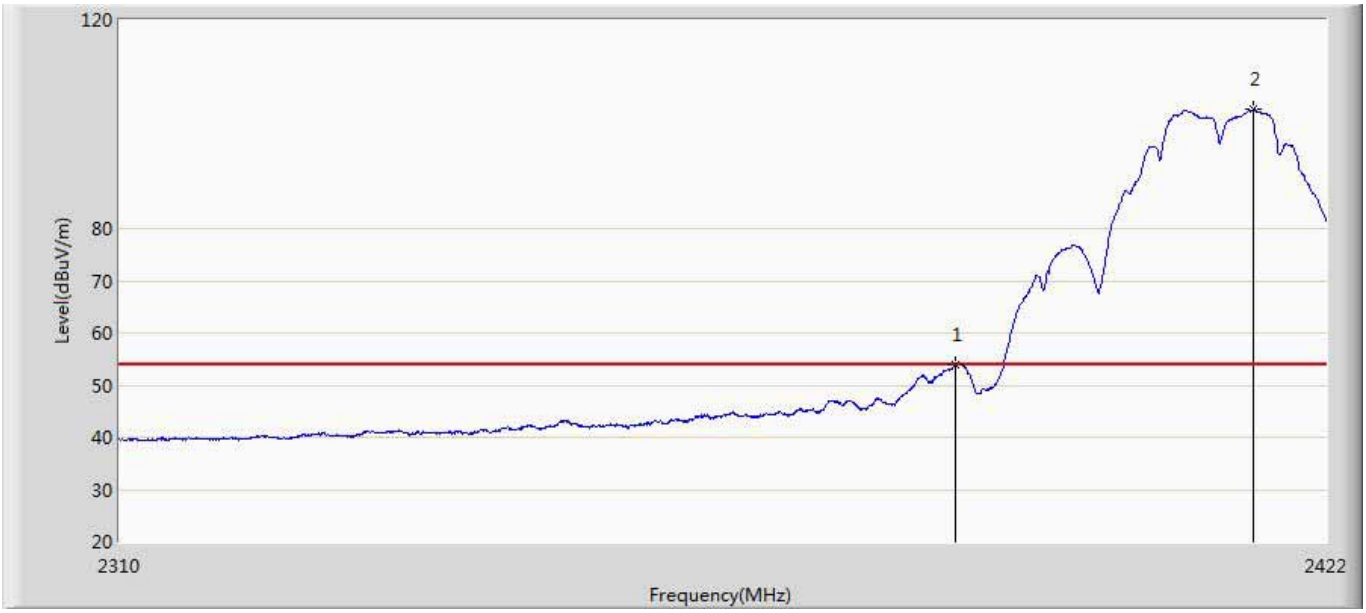
802.11n(20MHz)



802.11n(40MHz)

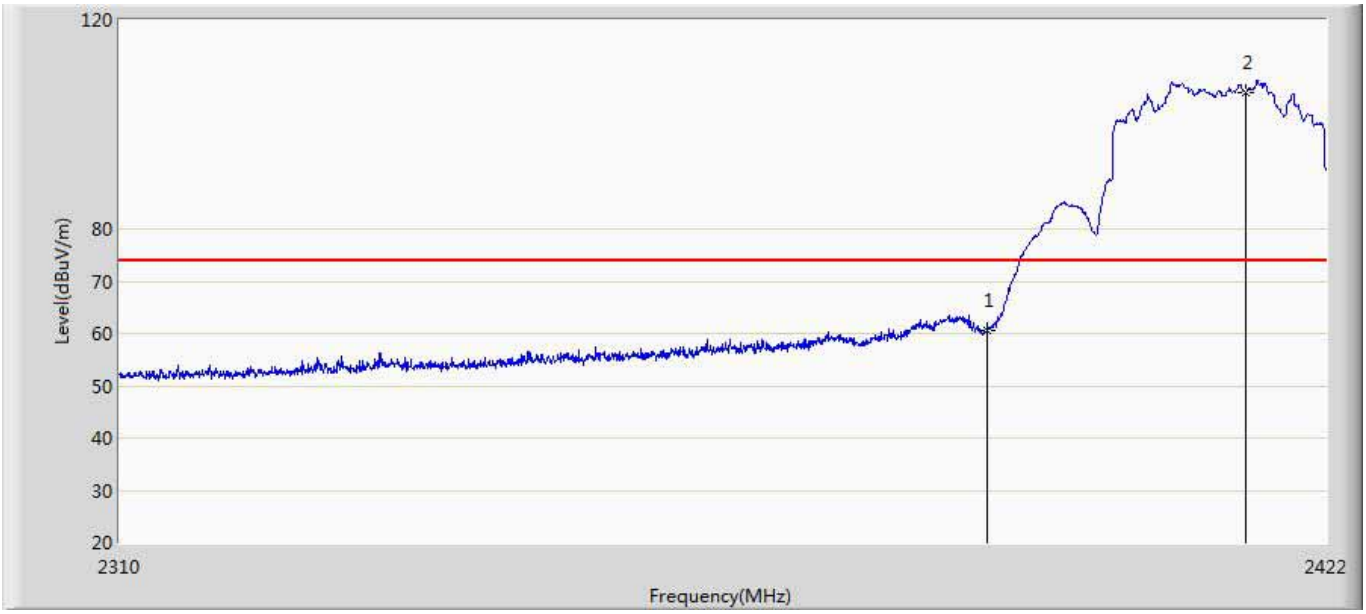
6.7. Test Result

Site: AC5	Time: 2017/02/16 - 18:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2412MHZ by 802.11b	



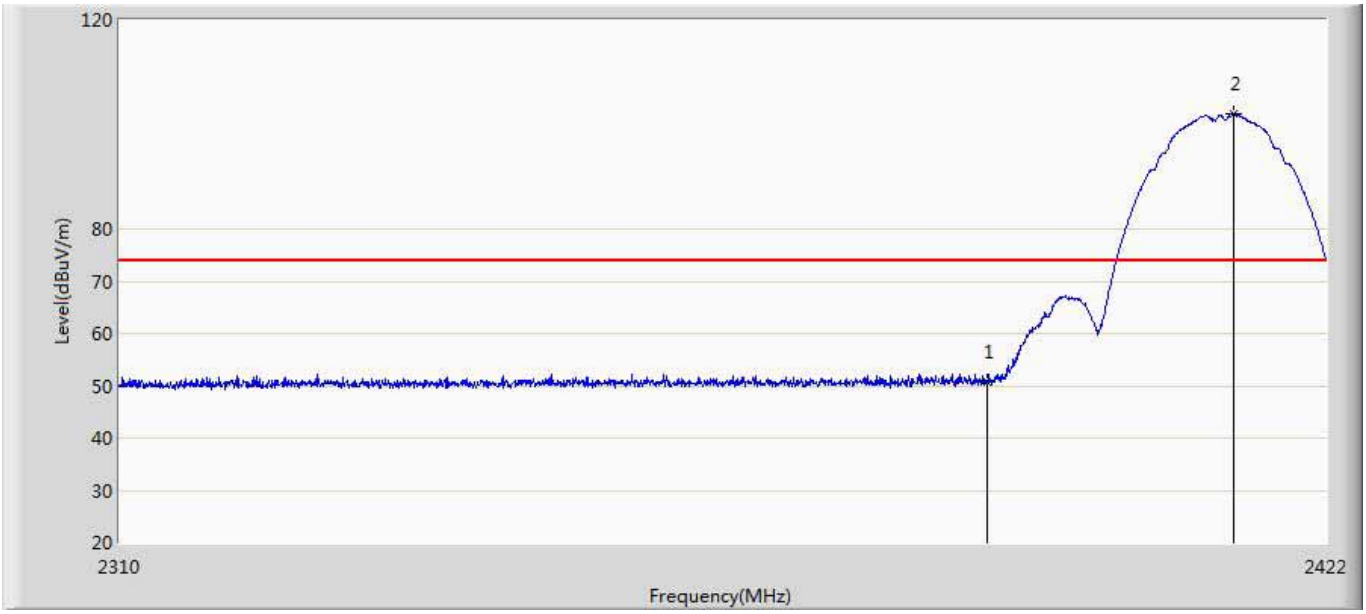
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2387.000	53.800	18.125	-0.200	54.000	35.675	AV
2	*	2415.112	102.764	67.010	48.764	54.000	35.754	AV

Site: AC5	Time: 2017/02/16 - 19:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2412MHZ by 802.11b	



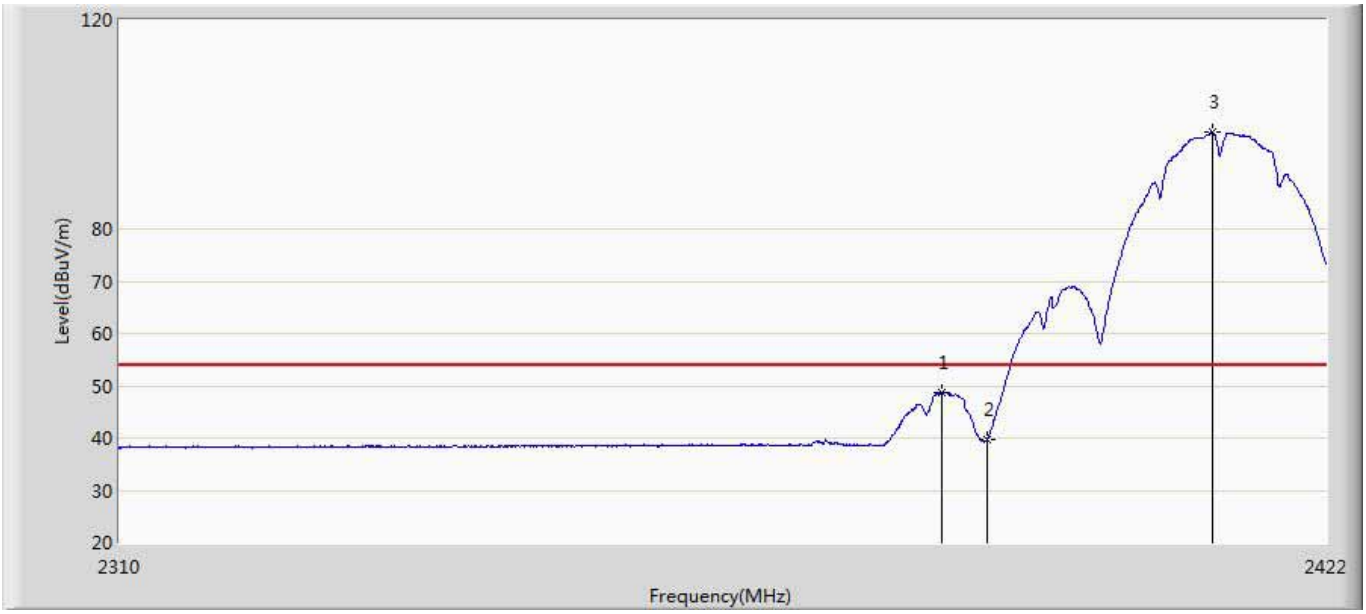
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	60.583	24.901	-13.417	74.000	35.682	PK
2	*	2414.440	106.129	70.377	32.129	74.000	35.751	PK

Site: AC5	Time: 2017/02/16 - 19:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2412MHZ by 802.11b	



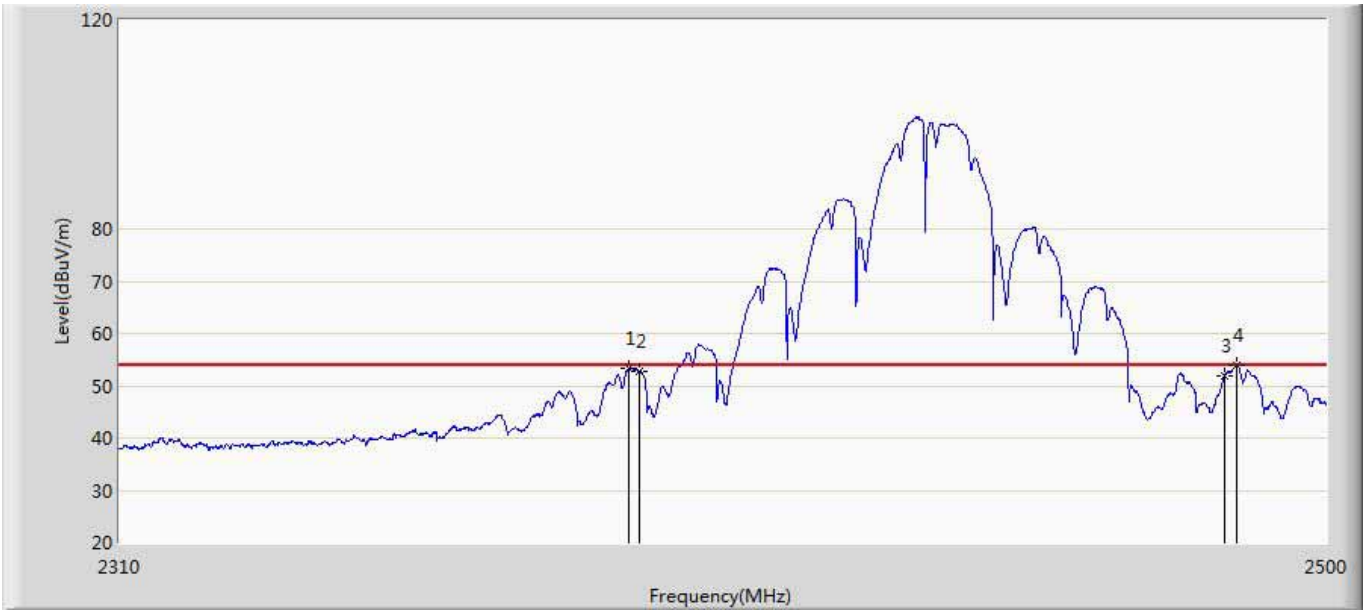
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	50.667	14.985	-23.333	74.000	35.682	PK
2	*	2413.320	102.031	66.284	28.031	74.000	35.747	PK

Site: AC5	Time: 2017/02/16 - 19:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2412MHZ by 802.11b	



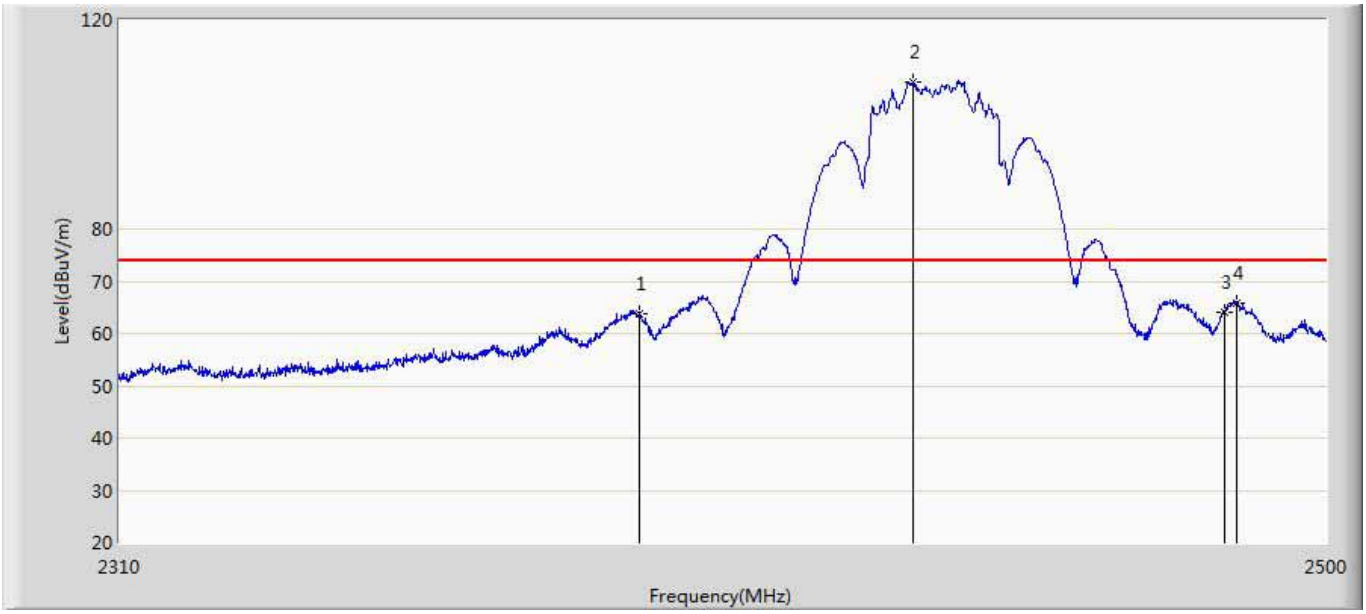
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2385.824	48.739	13.066	-5.261	54.000	35.673	AV
2		2390.000	39.572	3.890	-14.428	54.000	35.682	AV
3	*	2411.192	98.467	62.729	44.467	54.000	35.738	AV

Site: AC5	Time: 2017/02/16 - 19:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2437MHZ by 802.11b	



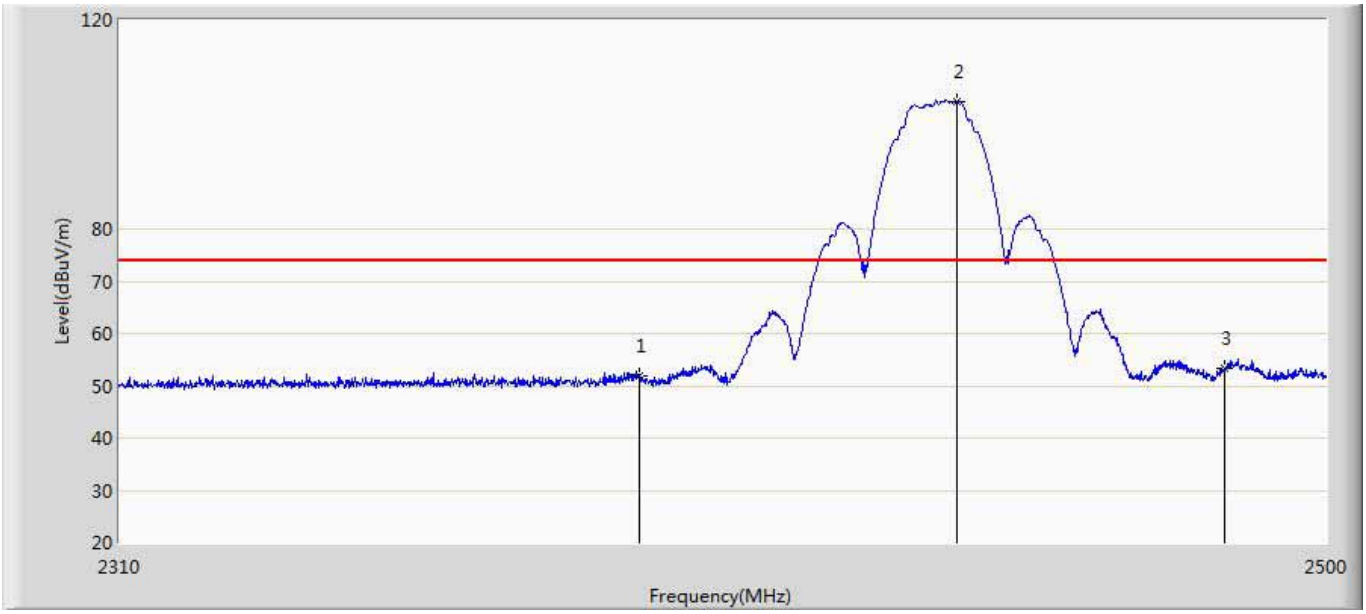
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2388.470	53.399	17.721	-0.601	54.000	35.678	AV
2		2390.000	52.685	17.003	-1.315	54.000	35.682	AV
3		2483.500	51.905	16.013	-2.095	54.000	35.891	AV
4	*	2485.465	53.831	17.925	-0.169	54.000	35.906	AV

Site: AC5	Time: 2017/02/16 - 19:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2437MHZ by 802.11b	



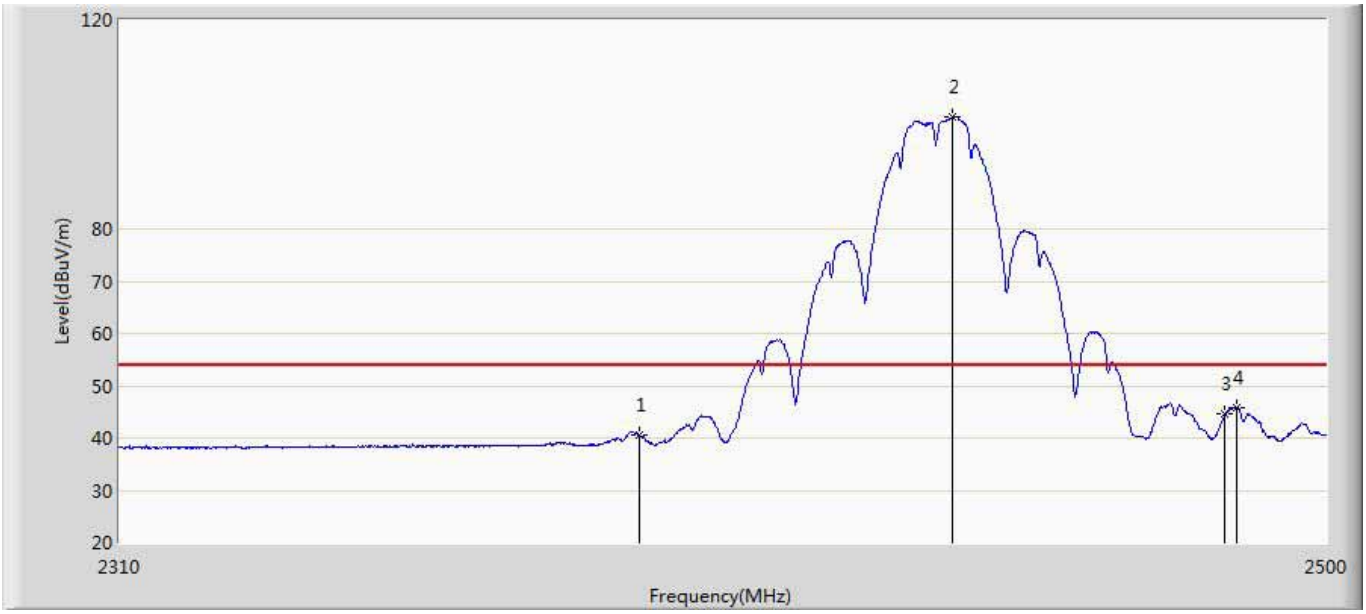
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	63.853	28.171	-10.147	74.000	35.682	PK
2	*	2433.405	108.068	72.261	34.068	74.000	35.807	PK
3		2483.500	64.190	28.298	-9.810	74.000	35.891	PK
4		2485.370	65.853	29.948	-8.147	74.000	35.905	PK

Site: AC5	Time: 2017/02/16 - 19:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2437MHZ by 802.11b	



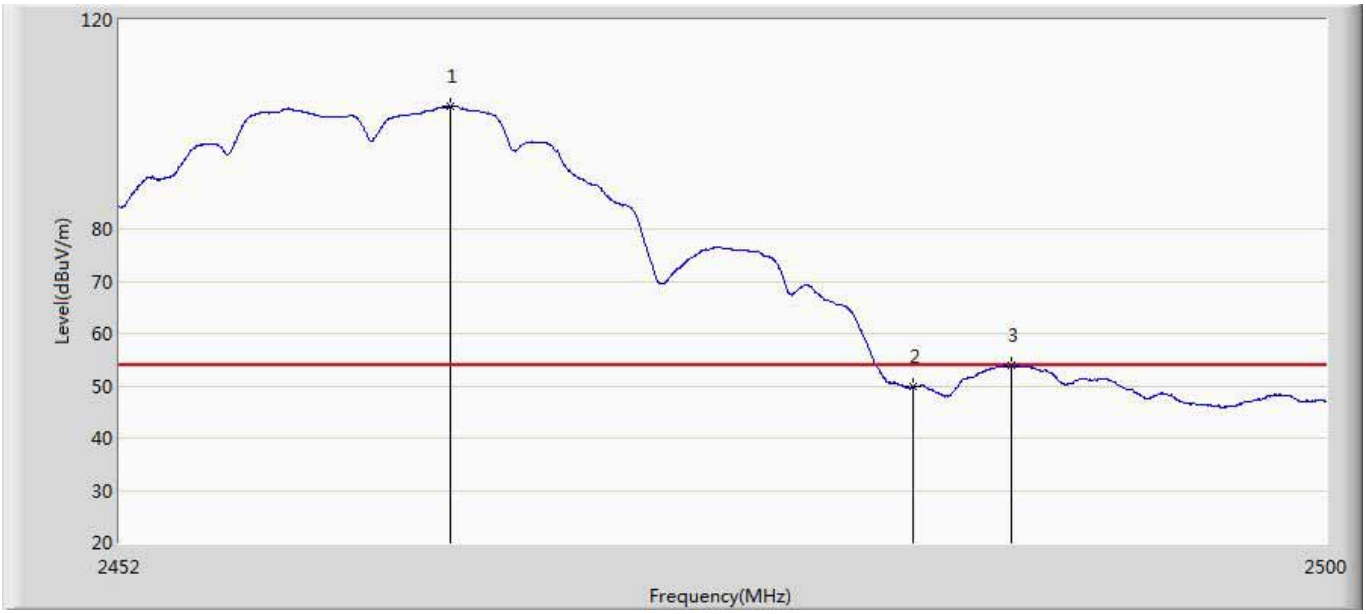
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	52.001	16.319	-21.999	74.000	35.682	PK
2	*	2440.340	104.348	68.543	30.348	74.000	35.806	PK
3		2483.500	53.324	17.432	-20.676	74.000	35.891	PK

Site: AC5	Time: 2017/02/16 - 20:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2437MHZ by 802.11b	



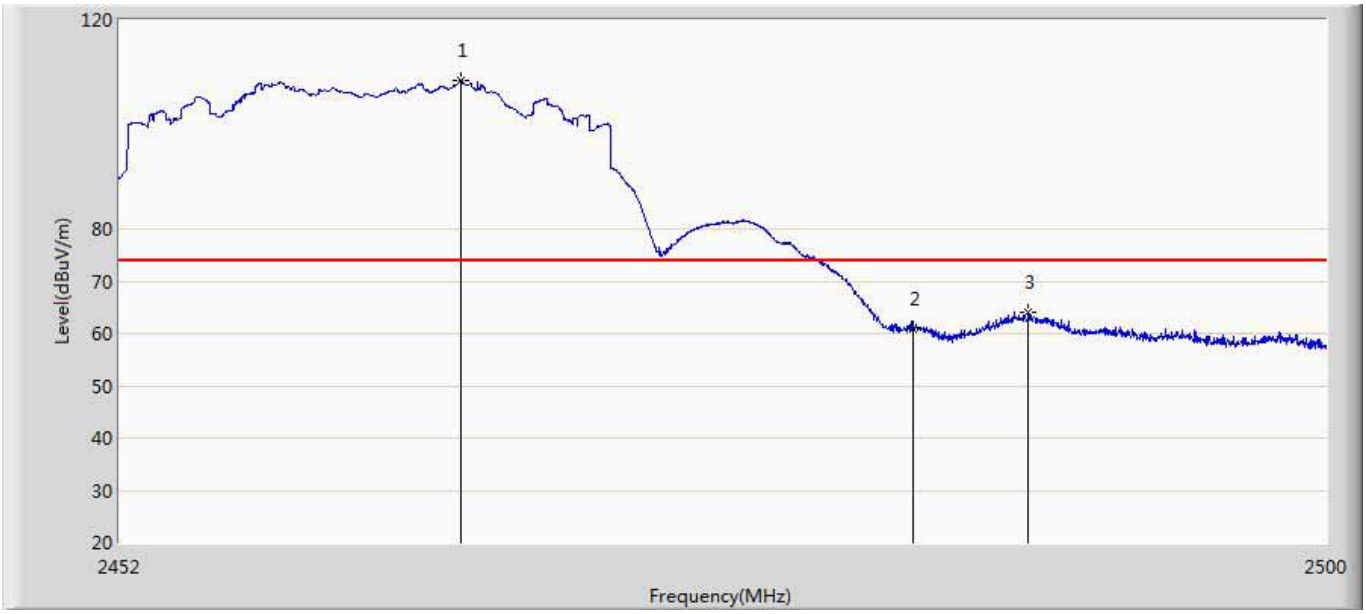
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	40.707	5.025	-13.293	54.000	35.682	AV
2	*	2439.675	101.546	65.741	47.546	54.000	35.806	AV
3		2483.500	44.501	8.609	-9.499	54.000	35.891	AV
4		2485.370	45.937	10.032	-8.063	54.000	35.905	AV

Site: AC5	Time: 2017/02/16 - 20:02
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2462MHZ by 802.11b	



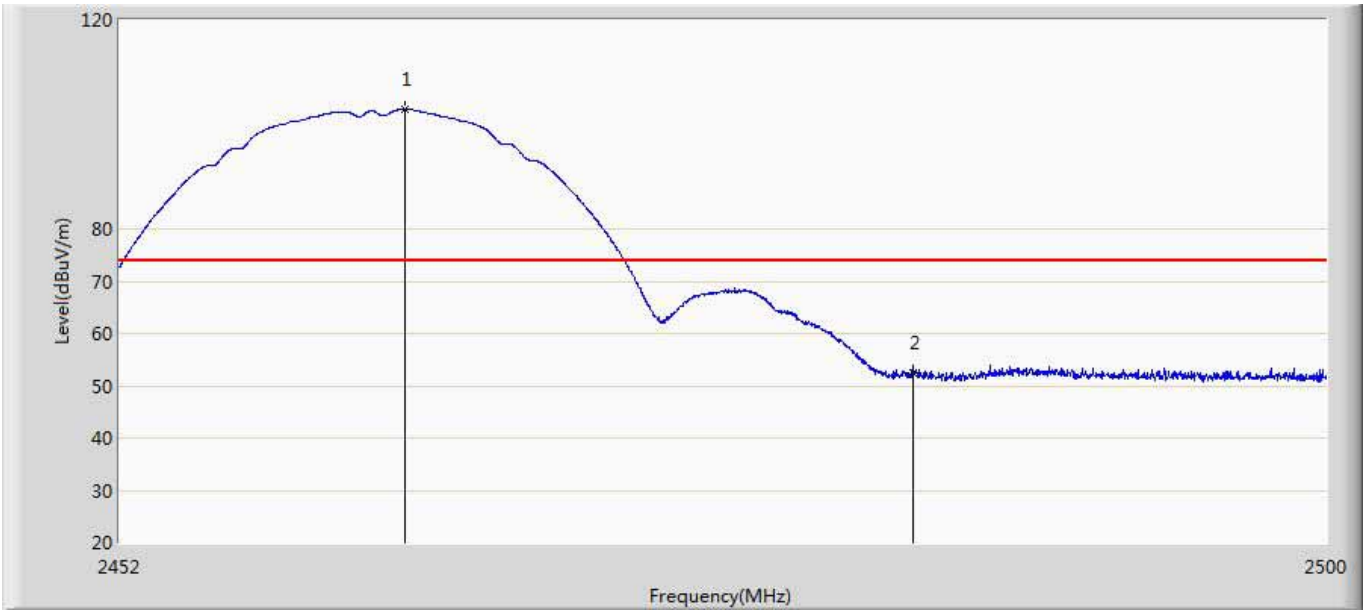
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2465.056	103.436	67.561	49.436	54.000	35.875	AV
2		2483.500	49.863	13.971	-4.137	54.000	35.891	AV
3		2487.424	53.773	17.853	-0.227	54.000	35.920	AV

Site: AC5	Time: 2017/02/16 - 20:13
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2462MHZ by 802.11b	



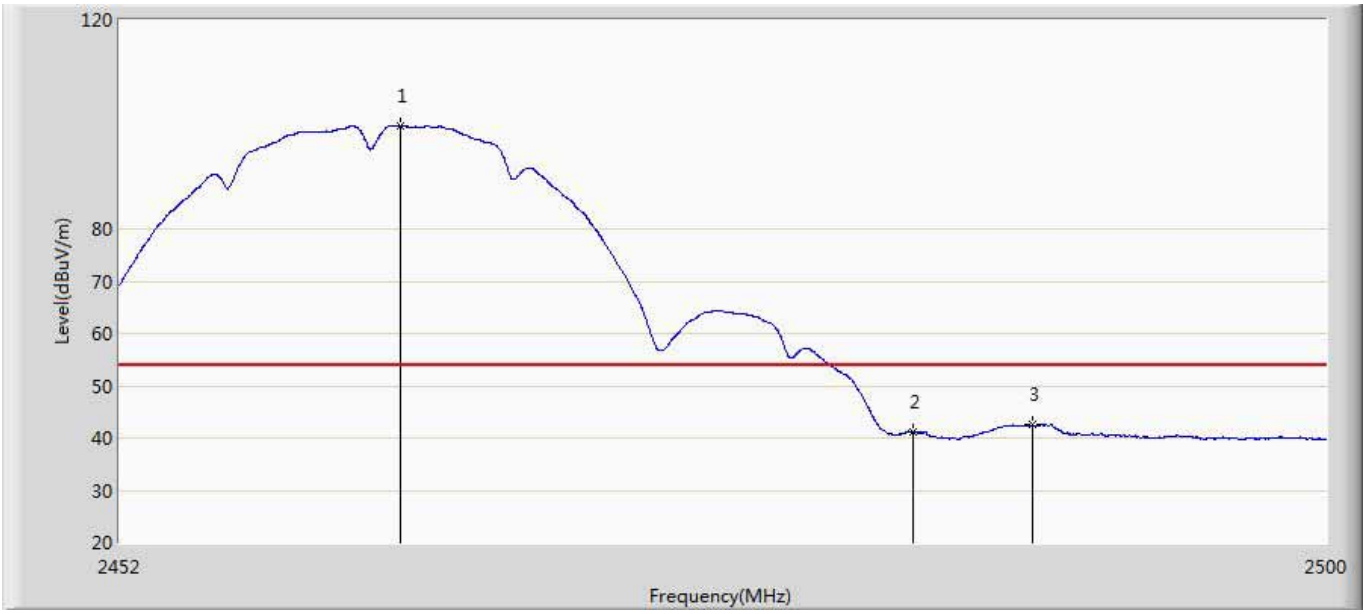
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2465.488	108.372	72.498	34.372	74.000	35.874	PK
2		2483.500	60.883	24.991	-13.117	74.000	35.891	PK
3		2488.072	64.027	28.102	-9.973	74.000	35.925	PK

Site: AC5	Time: 2017/02/16 - 20:16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2462MHZ by 802.11b	



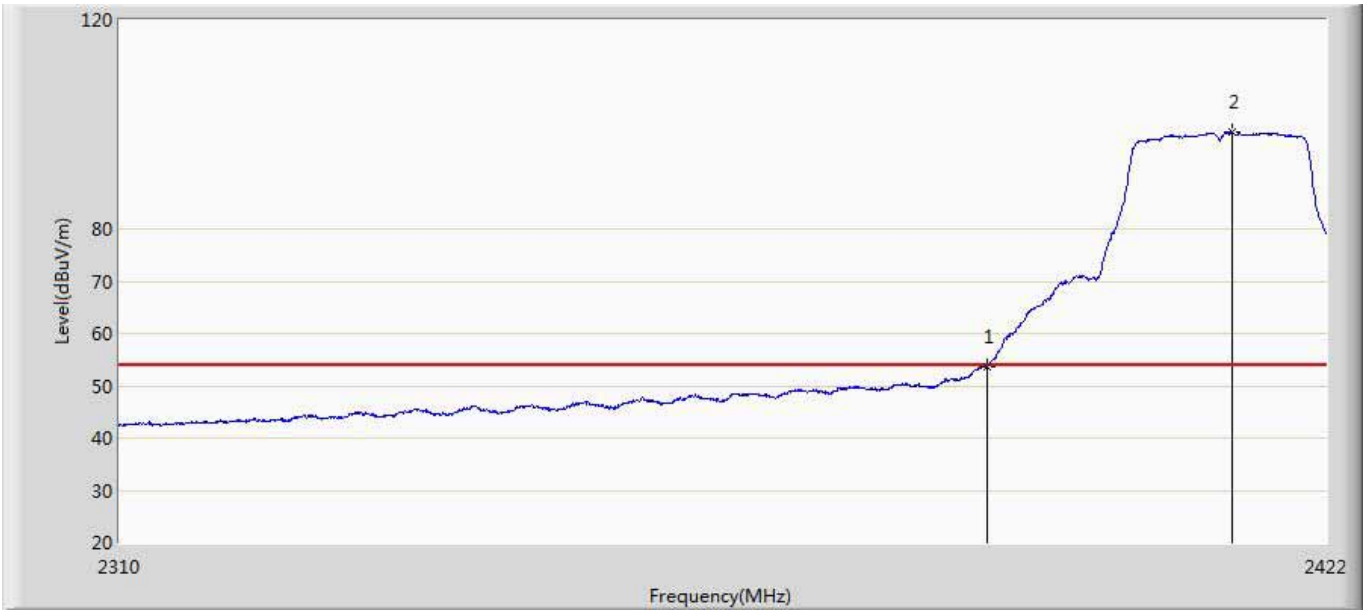
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2463.304	102.834	66.957	28.834	74.000	35.877	PK
2		2483.500	52.362	16.470	-21.638	74.000	35.891	PK

Site: AC5	Time: 2017/02/16 - 20:17
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2462MHZ by 802.11b	



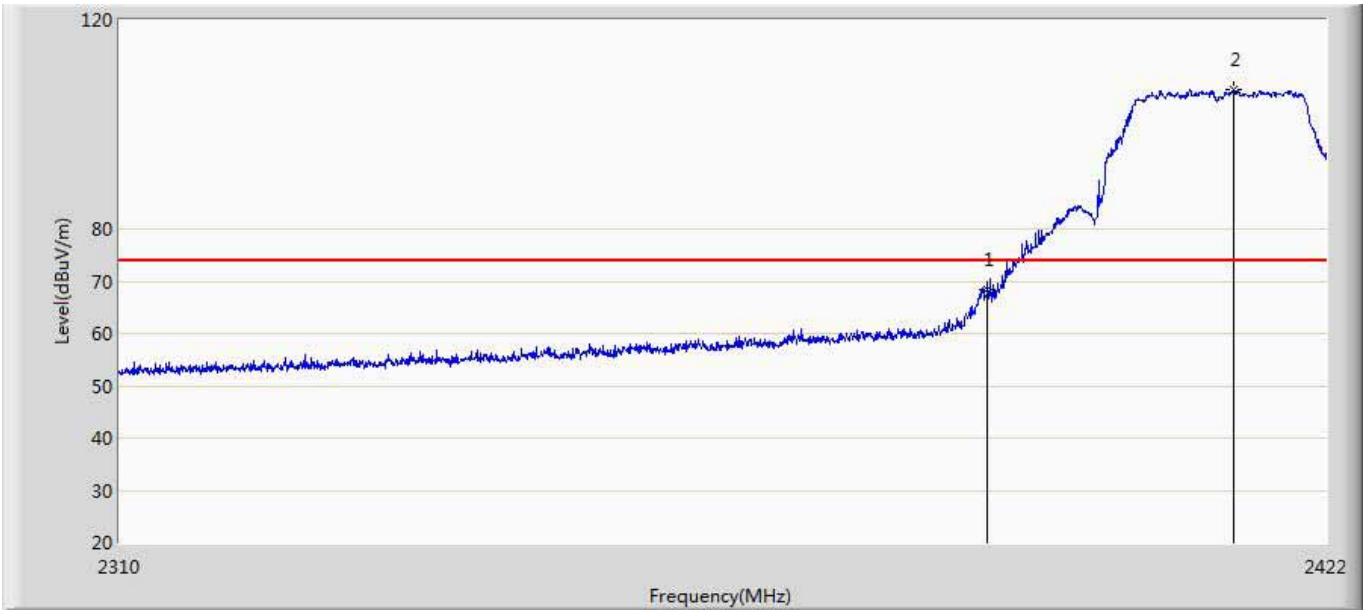
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2463.088	99.710	63.833	45.710	54.000	35.877	AV
2		2483.500	41.047	5.155	-12.953	54.000	35.891	AV
3		2488.240	42.557	6.631	-11.443	54.000	35.926	AV

Site: AC5	Time: 2017/02/19 - 10:16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2412MHZ by 802.11g	



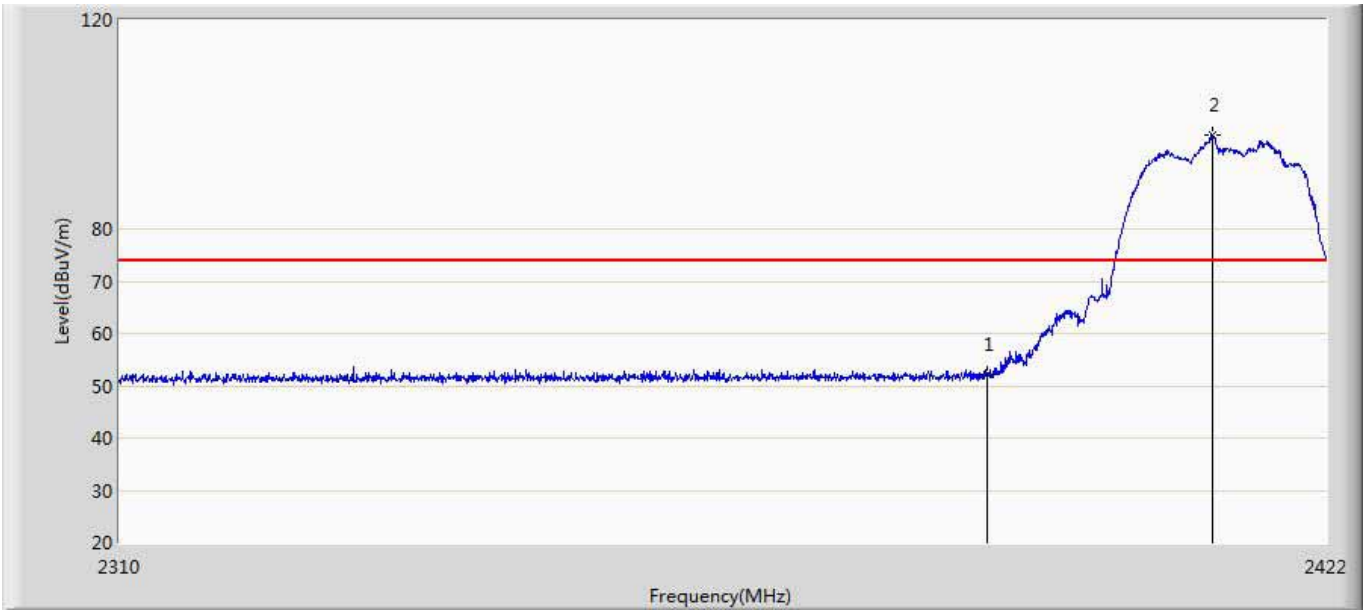
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.694	18.012	-0.306	54.000	35.682	AV
2	*	2413.152	98.458	62.712	44.458	54.000	35.747	AV

Site: AC5	Time: 2017/02/19 - 10:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2412MHZ by 802.11g	



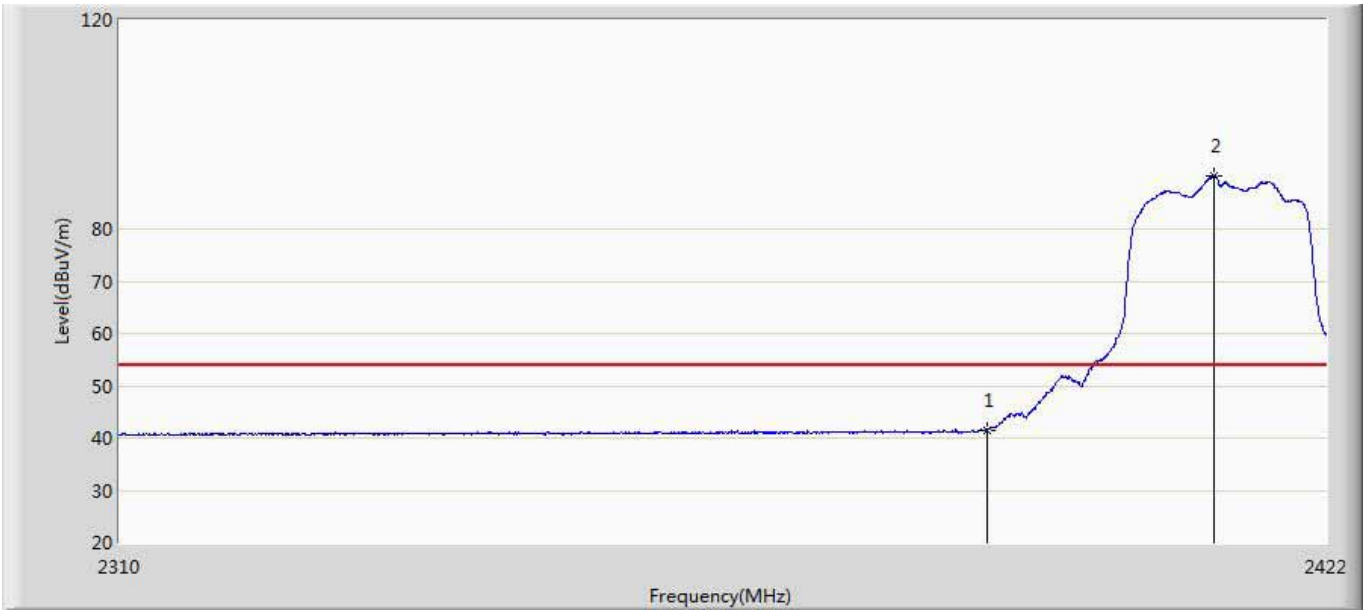
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	68.373	32.691	-5.627	74.000	35.682	PK
2	*	2413.208	106.700	70.954	32.700	74.000	35.747	PK

Site: AC5	Time: 2017/02/19 - 10:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2412MHZ by 802.11g	



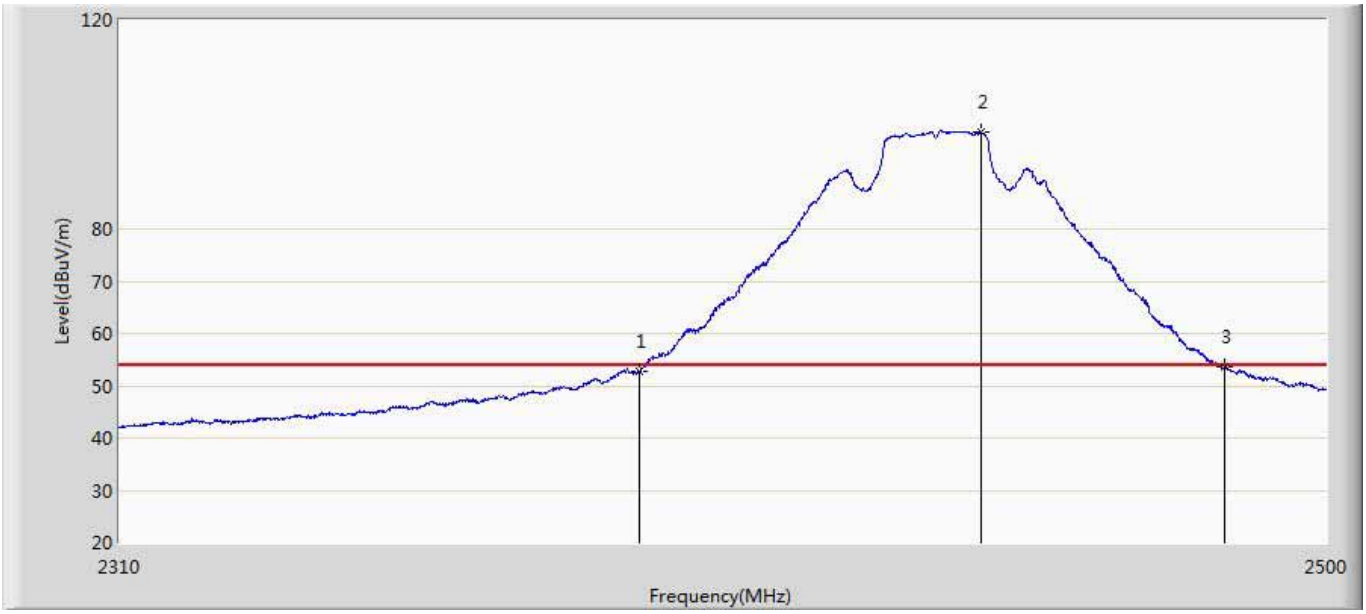
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	52.170	16.488	-21.830	74.000	35.682	PK
2	*	2411.248	98.076	62.338	24.076	74.000	35.738	PK

Site: AC5	Time: 2017/02/19 - 10:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2412MHZ by 802.11g	



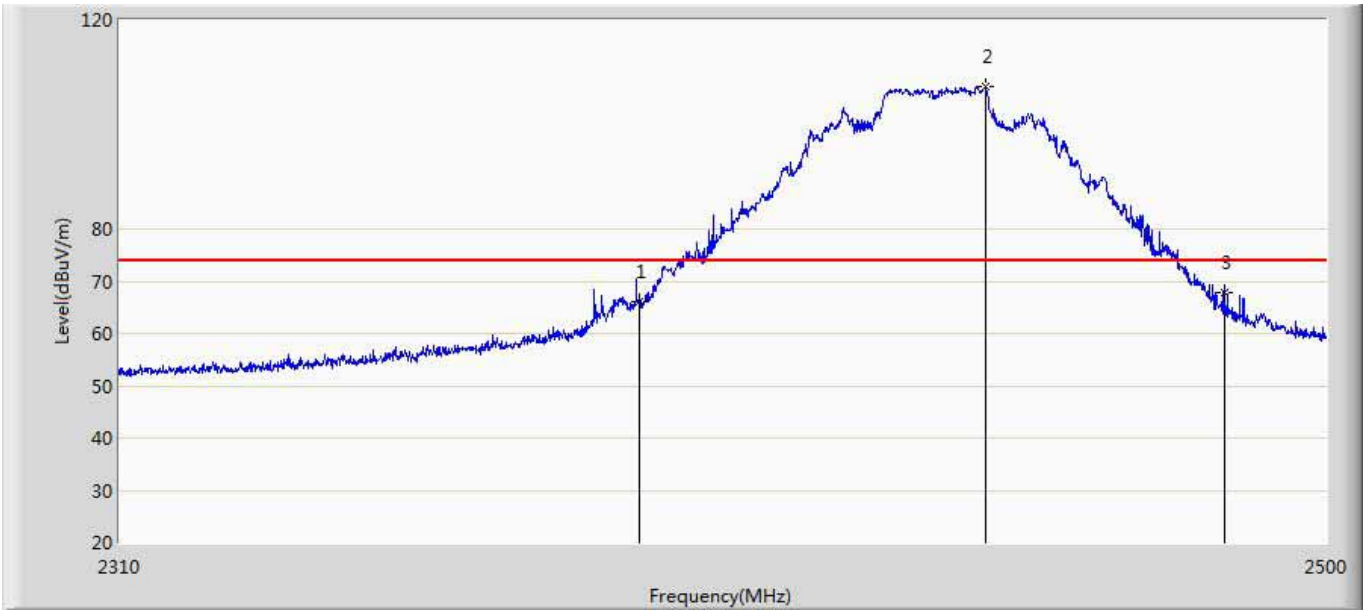
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	41.586	5.904	-12.414	54.000	35.682	AV
2	*	2411.360	90.167	54.428	36.167	54.000	35.738	AV

Site: AC5	Time: 2017/02/19 - 10:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2437MHZ by 802.11g	



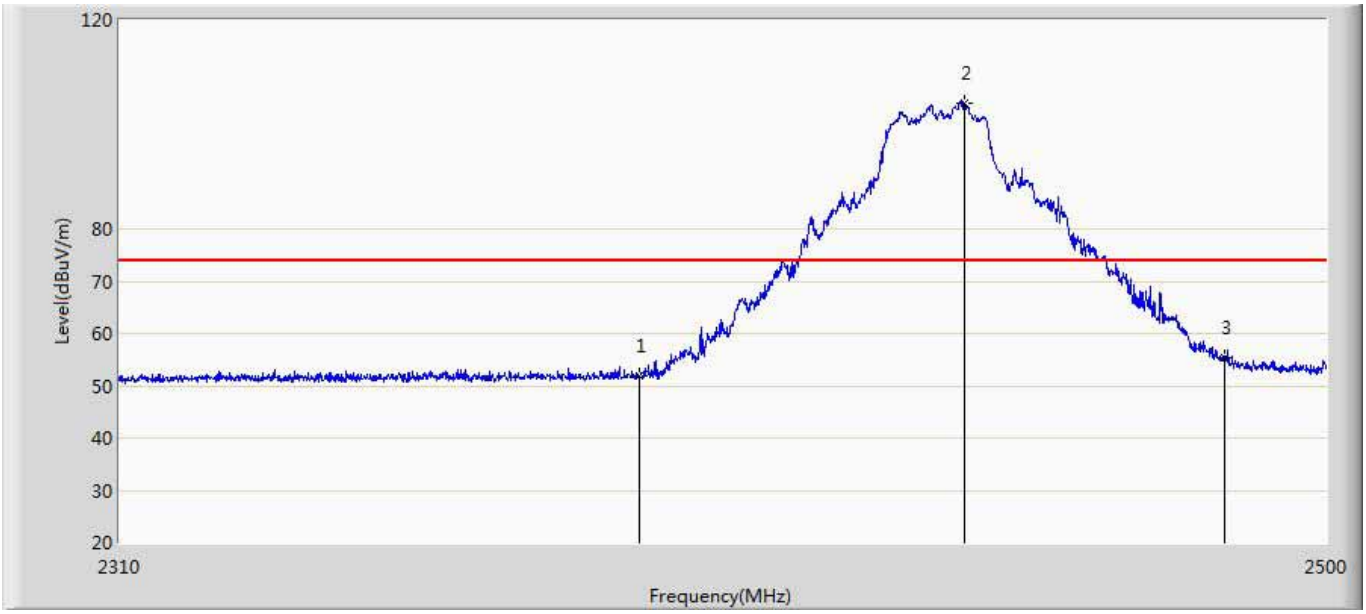
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	52.764	17.082	-1.236	54.000	35.682	AV
2	*	2444.235	98.435	62.631	44.435	54.000	35.804	AV
3		2483.500	53.677	17.785	-0.323	54.000	35.891	AV

Site: AC5	Time: 2017/02/19 - 10:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2437MHZ by 802.11g	



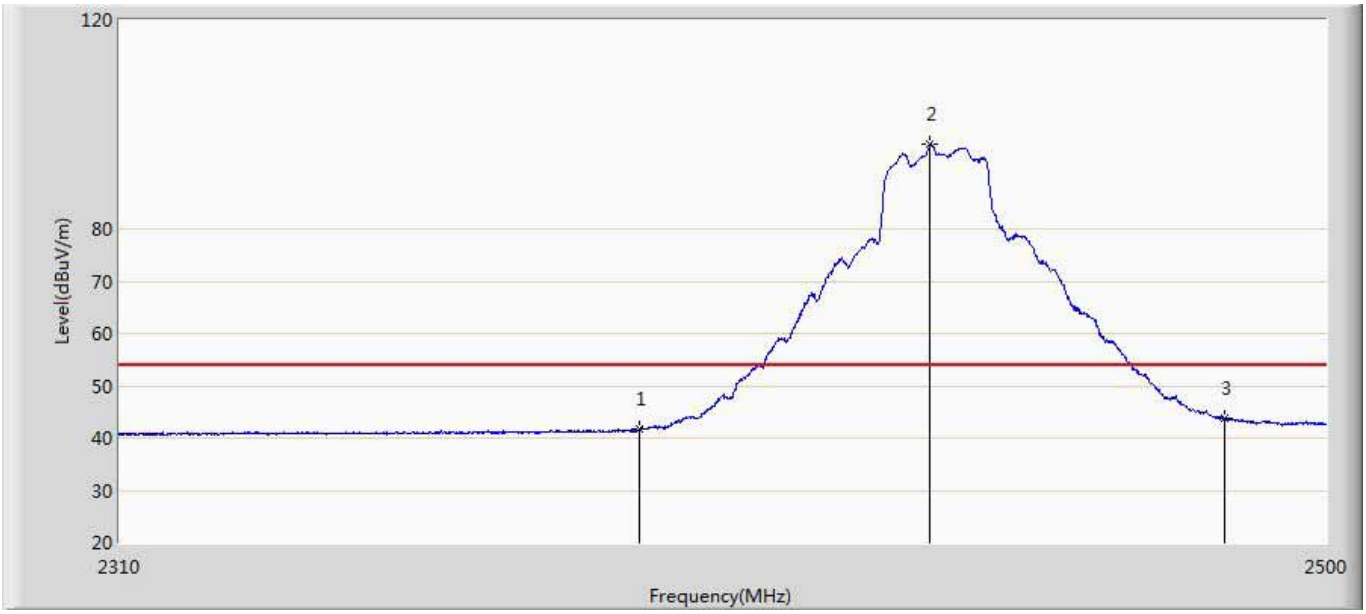
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	66.105	30.423	-7.895	74.000	35.682	PK
2	*	2444.995	107.138	71.334	33.138	74.000	35.804	PK
3		2483.500	67.797	31.905	-6.203	74.000	35.891	PK

Site: AC5	Time: 2017/02/19 - 11:02
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2437MHZ by 802.11g	



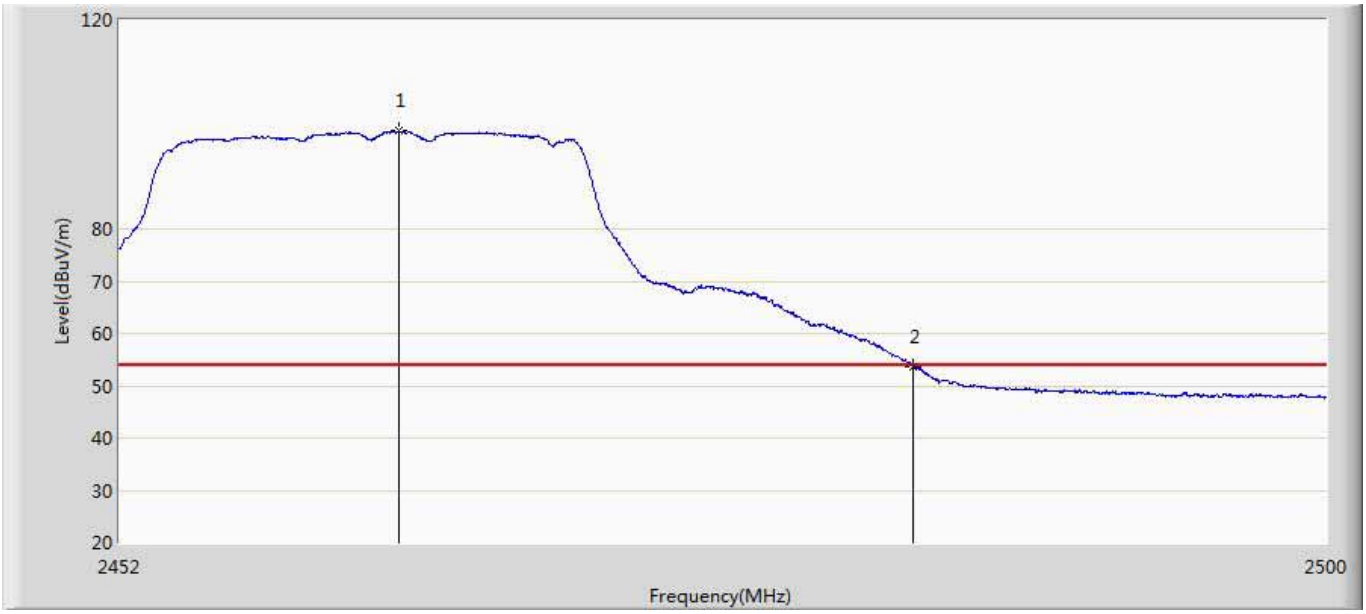
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	51.985	16.303	-22.015	74.000	35.682	PK
2	*	2441.480	104.044	68.239	30.044	74.000	35.805	PK
3		2483.500	55.349	19.457	-18.651	74.000	35.891	PK

Site: AC5	Time: 2017/02/19 - 11:04
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2437MHZ by 802.11g	



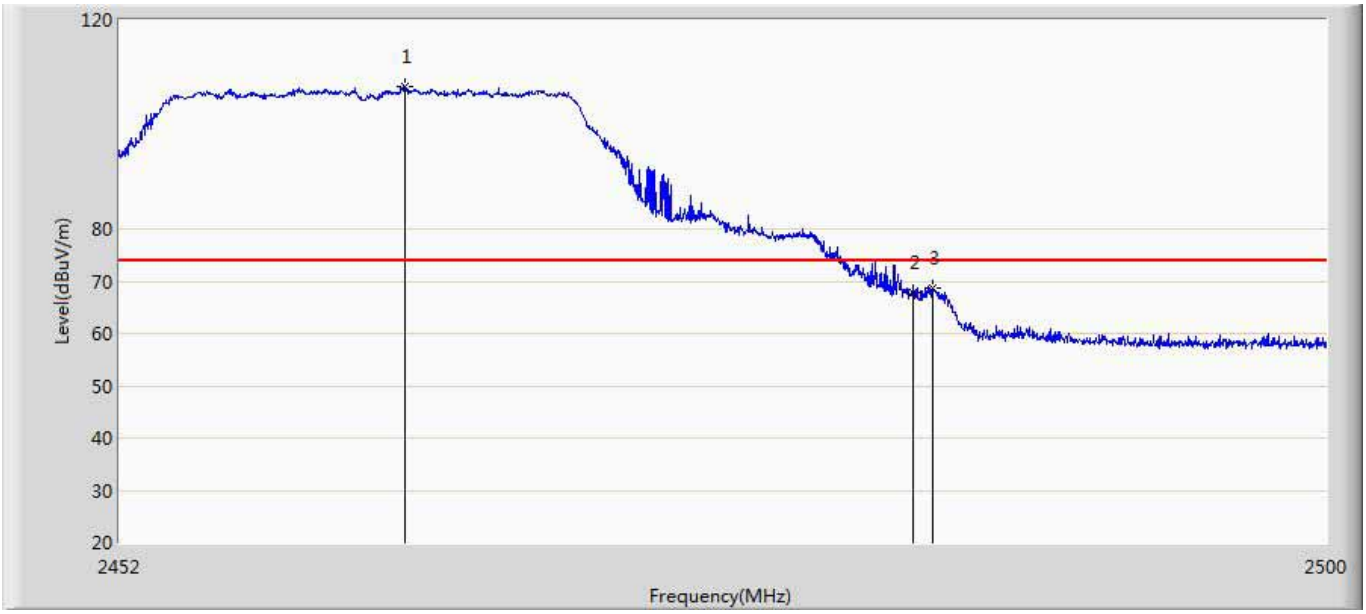
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	41.655	5.973	-12.345	54.000	35.682	AV
2	*	2436.065	96.134	60.328	42.134	54.000	35.806	AV
3		2483.500	43.636	7.744	-10.364	54.000	35.891	AV

Site: AC5	Time: 2017/02/19 - 11:06
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2462MHZ by 802.11g	



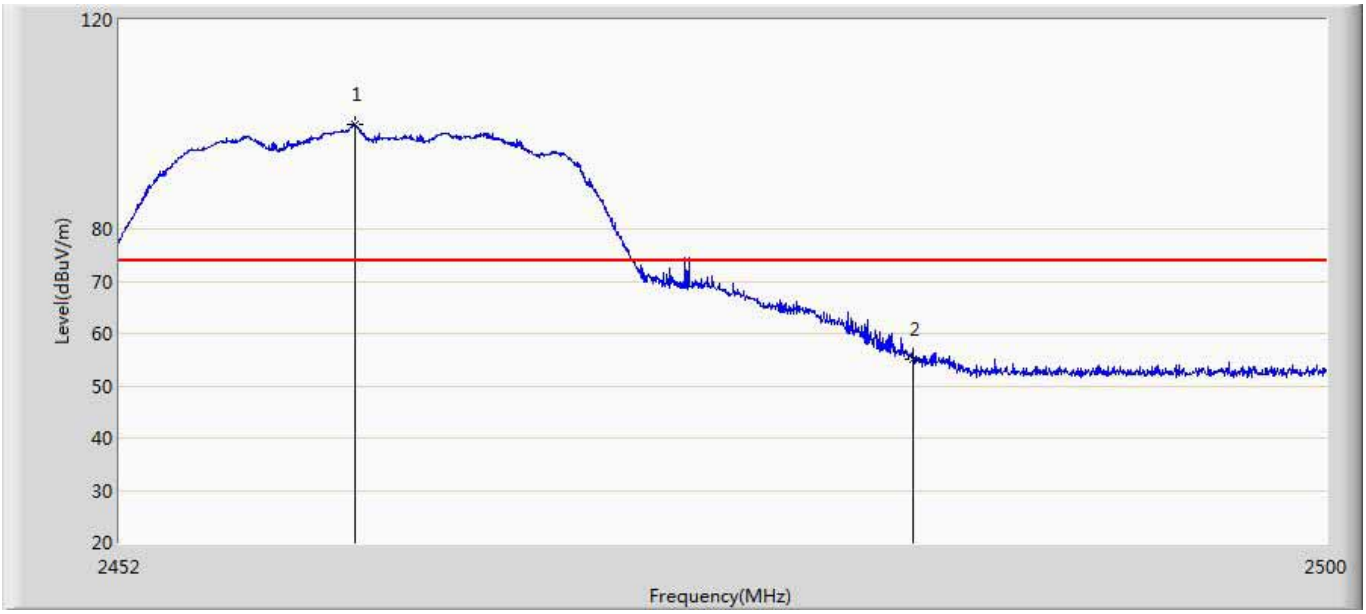
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2463.040	98.729	62.852	44.729	54.000	35.877	AV
2		2483.500	53.735	17.843	-0.265	54.000	35.891	AV

Site: AC5	Time: 2017/02/19 - 11:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2462MHZ by 802.11g	



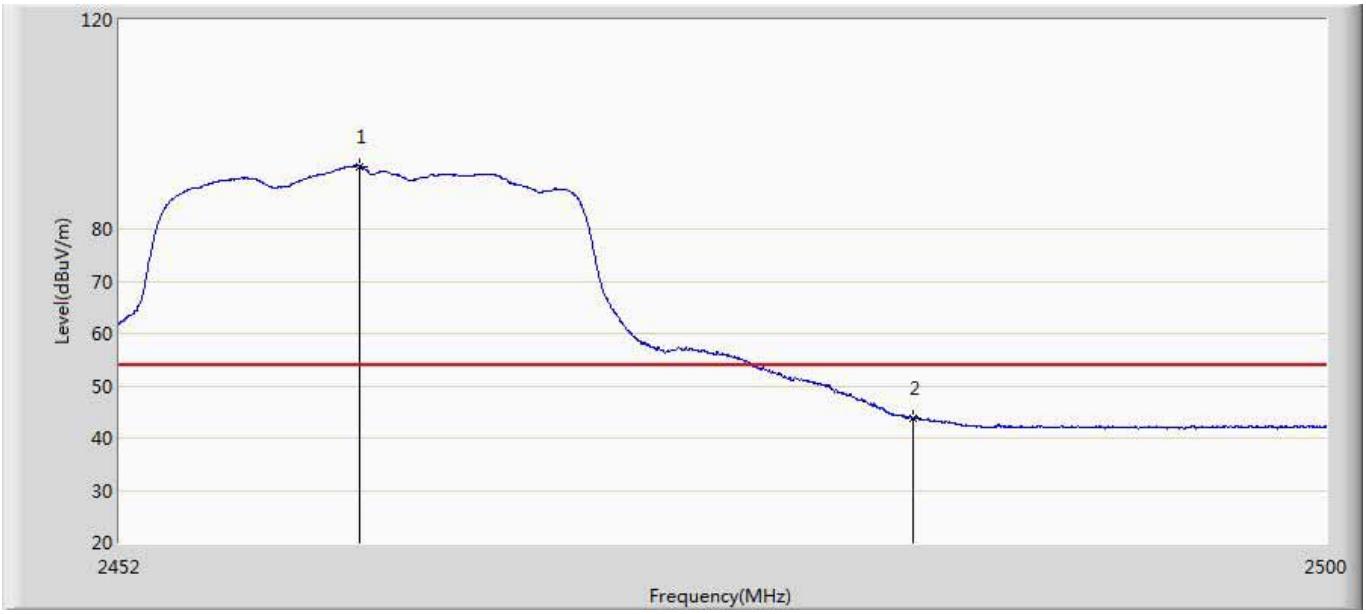
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2463.256	107.146	71.269	33.146	74.000	35.877	PK
2		2483.500	67.738	31.846	-6.262	74.000	35.891	PK
3		2484.280	68.730	32.833	-5.270	74.000	35.897	PK

Site: AC5	Time: 2017/02/19 - 11:33
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2462MHZ by 802.11g	



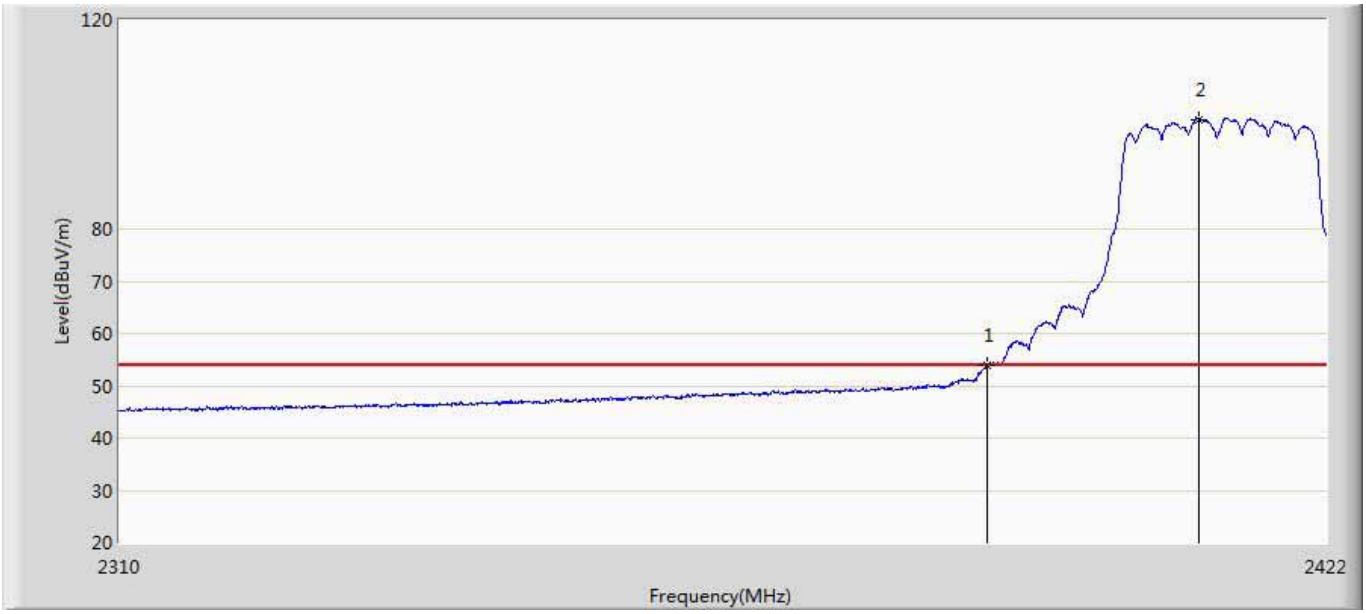
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2461.312	99.875	64.000	25.875	74.000	35.875	PK
2		2483.500	54.941	19.049	-19.059	74.000	35.891	PK

Site: AC5	Time: 2017/02/19 - 11:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2462MHZ by 802.11g	



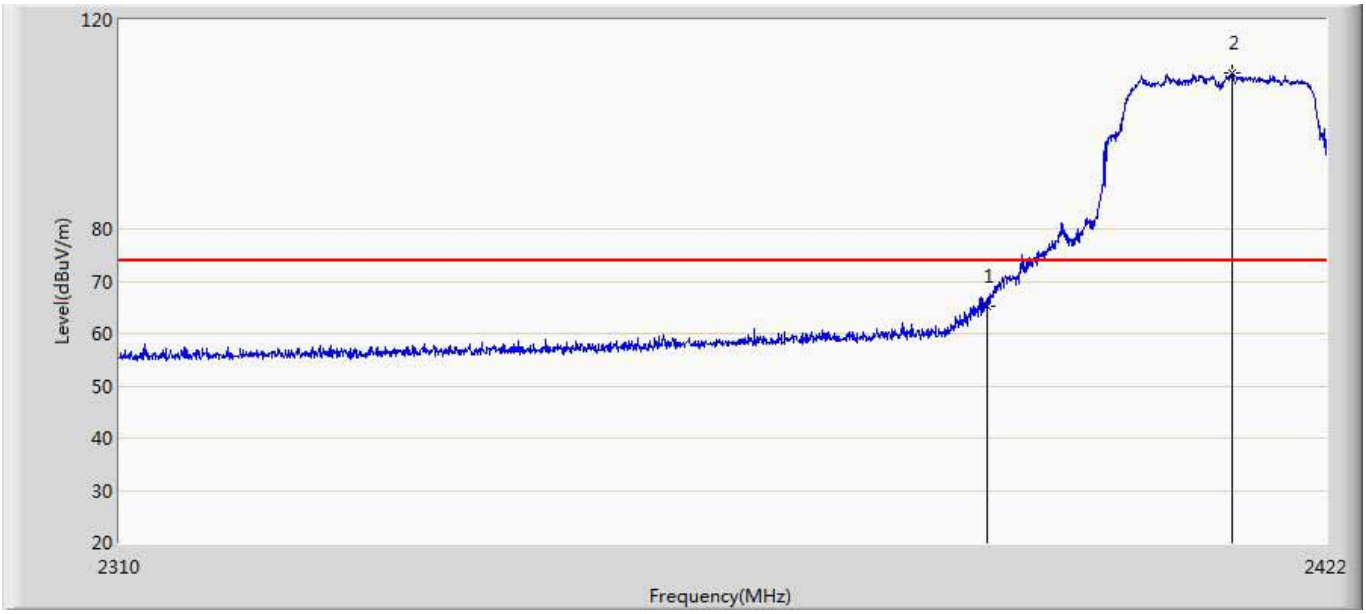
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2461.504	91.993	56.117	37.993	54.000	35.876	AV
2		2483.500	43.753	7.861	-10.247	54.000	35.891	AV

Site: AC5	Time: 2017/02/19 - 12:19
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2412MHZ by 802.11n20	



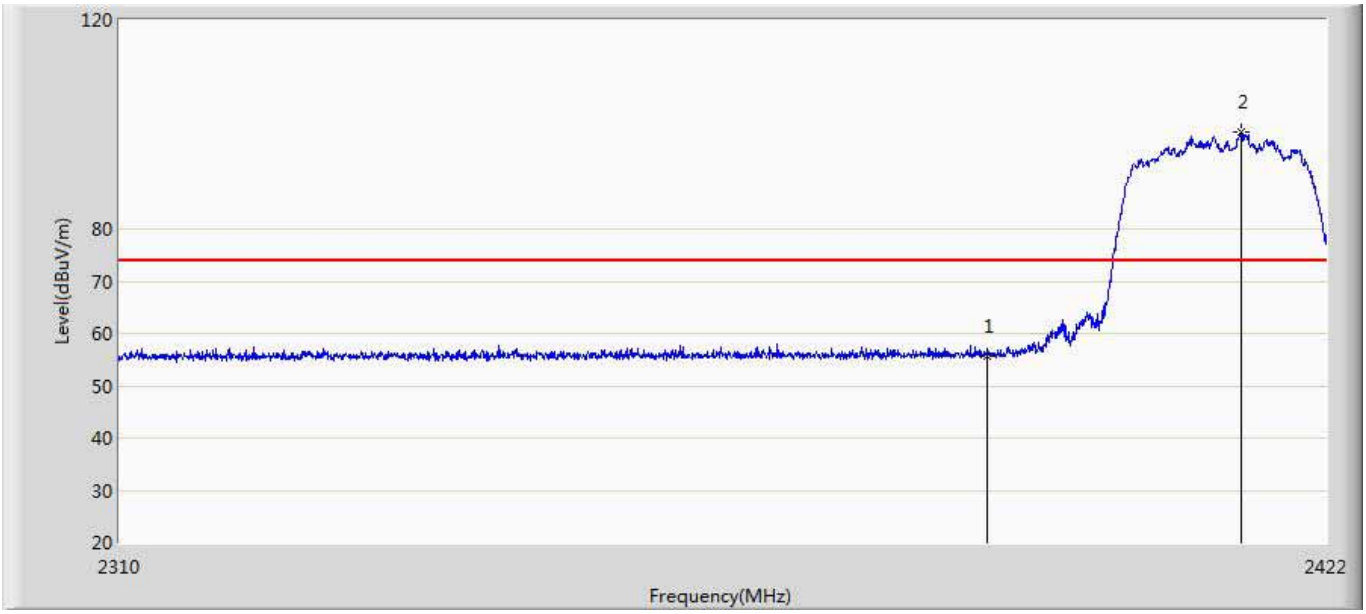
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.855	18.173	-0.145	54.000	35.682	AV
2	*	2409.960	100.954	65.220	46.954	54.000	35.735	AV

Site: AC5	Time: 2017/02/19 - 12:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2412MHZ by 802.11n20	



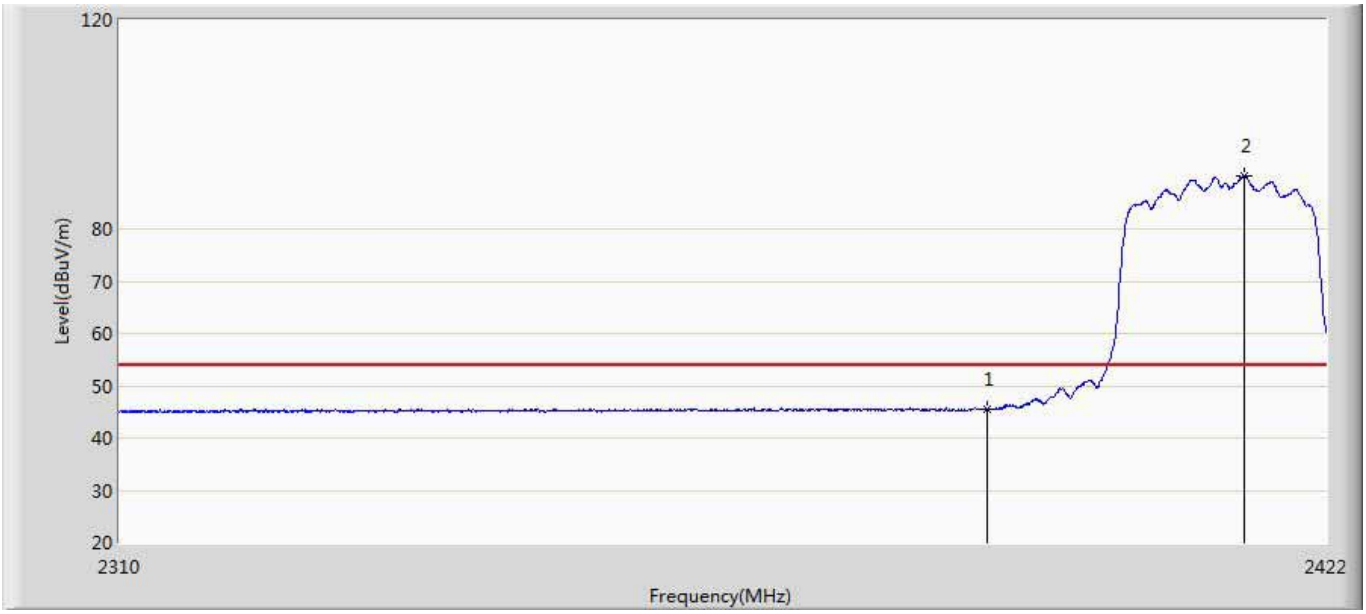
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	65.326	29.644	-8.674	74.000	35.682	PK
2	*	2413.096	109.971	74.225	35.971	74.000	35.746	PK

Site: AC5	Time: 2017/02/19 - 12:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2412MHZ by 802.11n20	



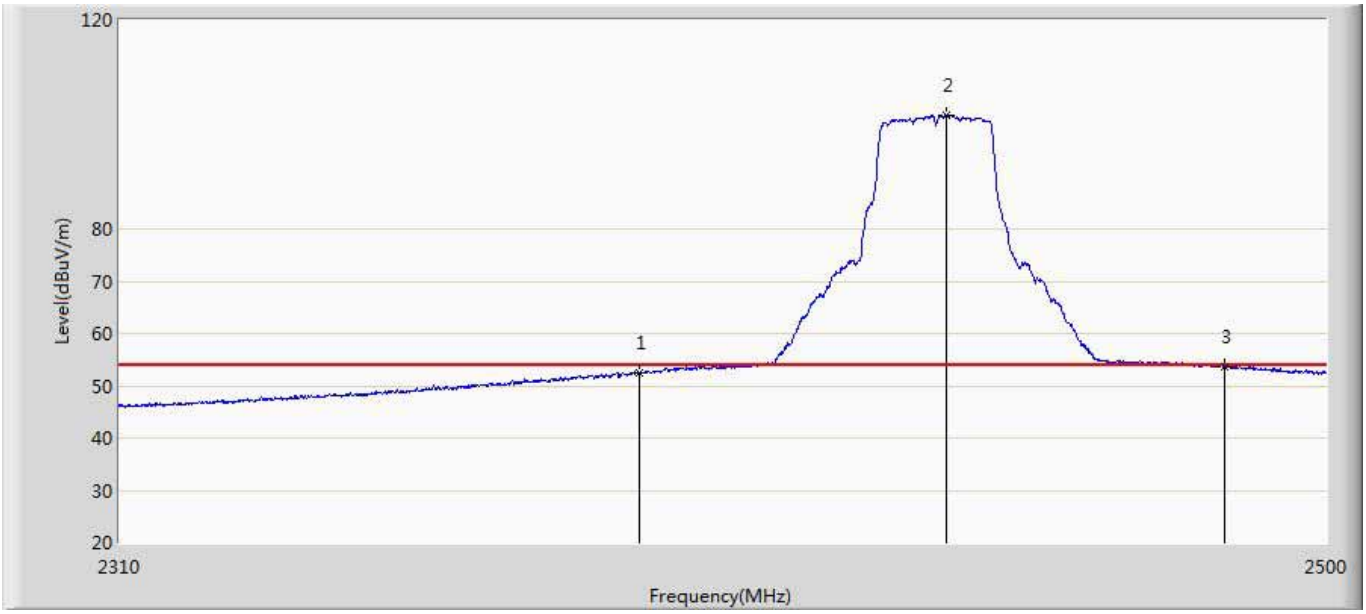
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	55.709	20.027	-18.291	74.000	35.682	PK
2	*	2413.936	98.533	62.783	24.533	74.000	35.750	PK

Site: AC5	Time: 2017/02/19 - 12:30
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2412MHZ by 802.11n20	



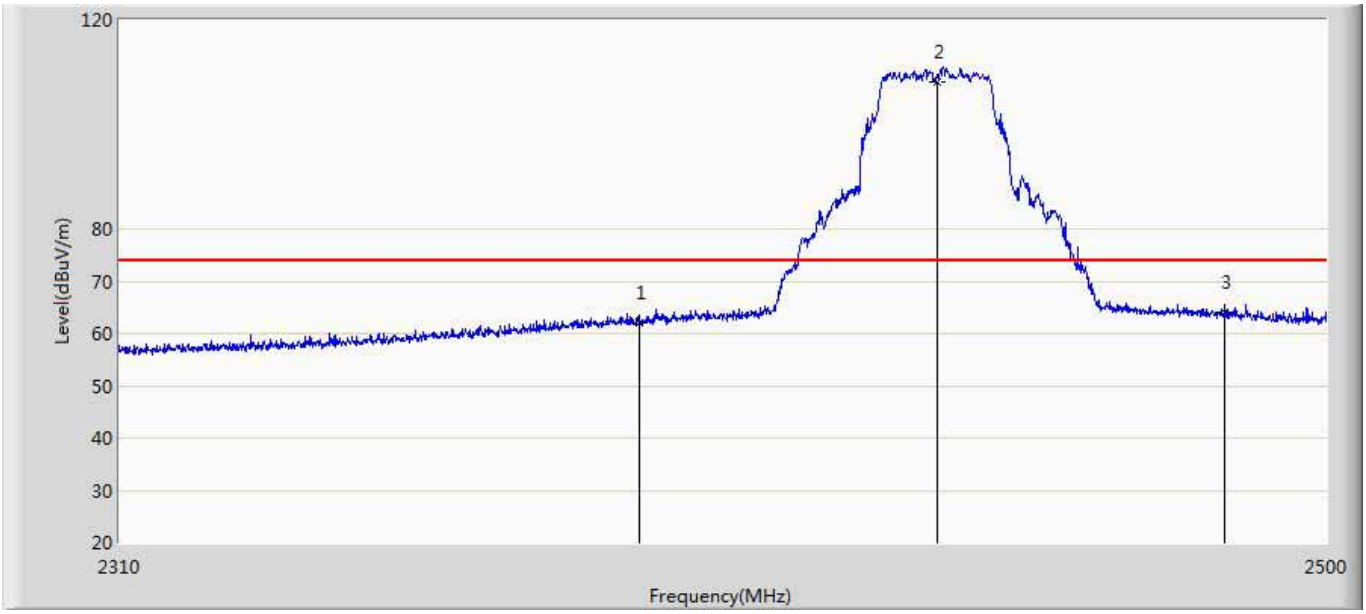
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	45.582	9.900	-8.418	54.000	35.682	AV
2	*	2414.216	90.165	54.414	36.165	54.000	35.751	AV

Site: AC5	Time: 2017/02/19 - 12:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2437MHZ by 802.11n20	



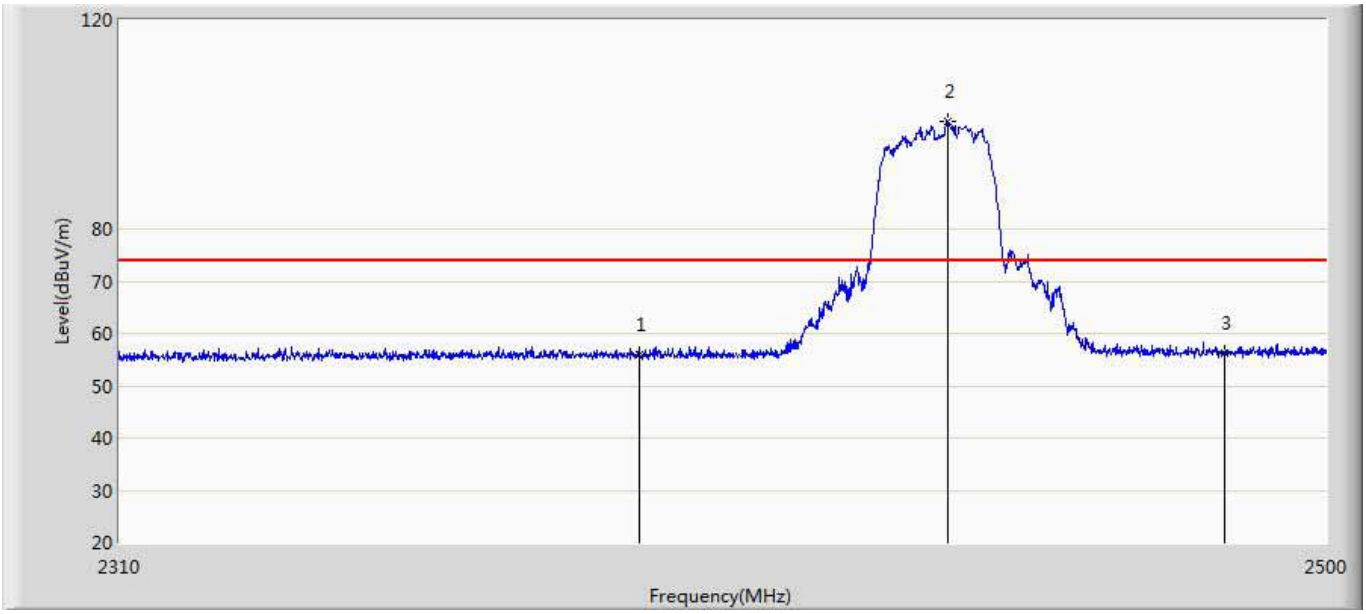
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	52.420	16.738	-1.580	54.000	35.682	AV
2	*	2438.535	101.657	65.851	47.657	54.000	35.805	AV
3		2483.500	53.672	17.780	-0.328	54.000	35.891	AV

Site: AC5	Time: 2017/02/19 - 12:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2437MHZ by 802.11n20	



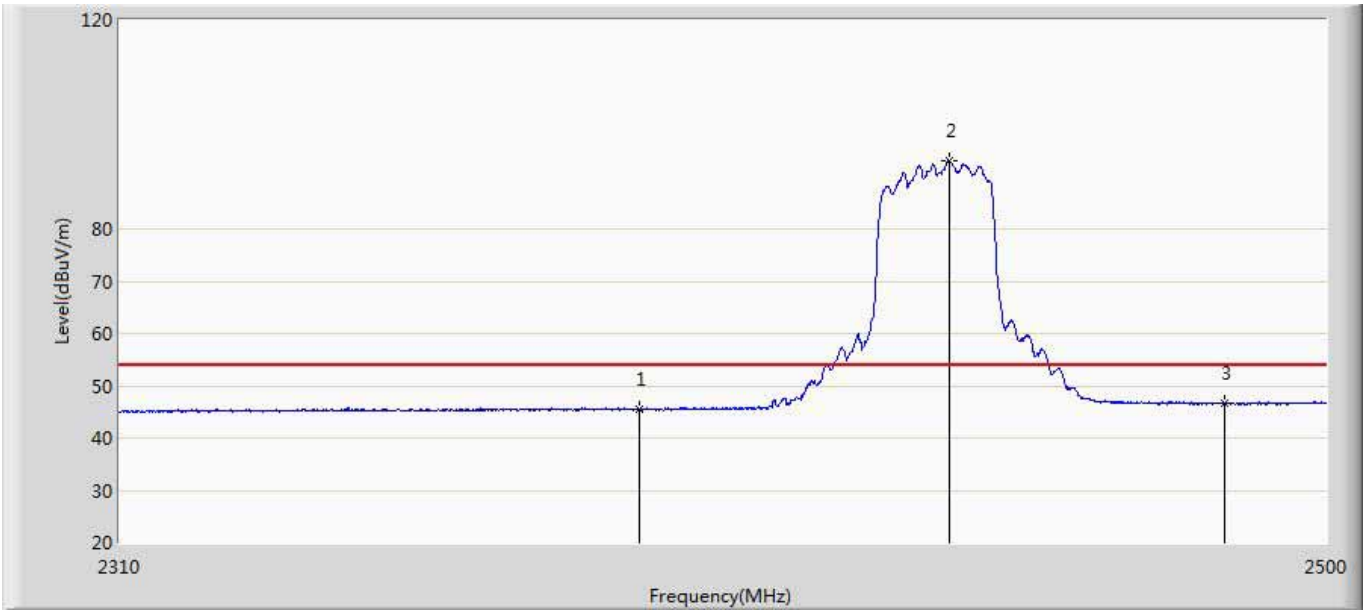
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	62.026	26.344	-11.974	74.000	35.682	PK
2	*	2437.205	108.022	72.216	34.022	74.000	35.806	PK
3		2483.500	63.953	28.061	-10.047	74.000	35.891	PK

Site: AC5	Time: 2017/02/19 - 12:42
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2437MHZ by 802.11n20	



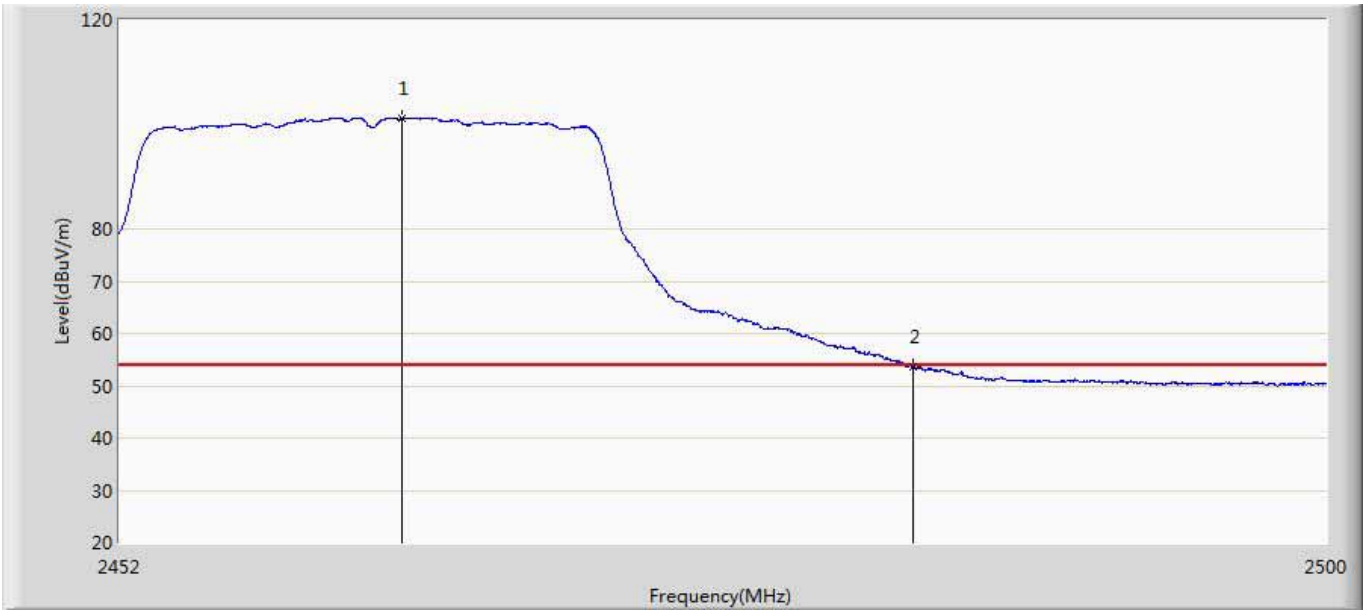
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	56.052	20.370	-17.948	74.000	35.682	PK
2	*	2438.820	100.439	64.633	26.439	74.000	35.806	PK
3		2483.500	56.186	20.294	-17.814	74.000	35.891	PK

Site: AC5	Time: 2017/02/19 - 12:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2437MHZ by 802.11n20	



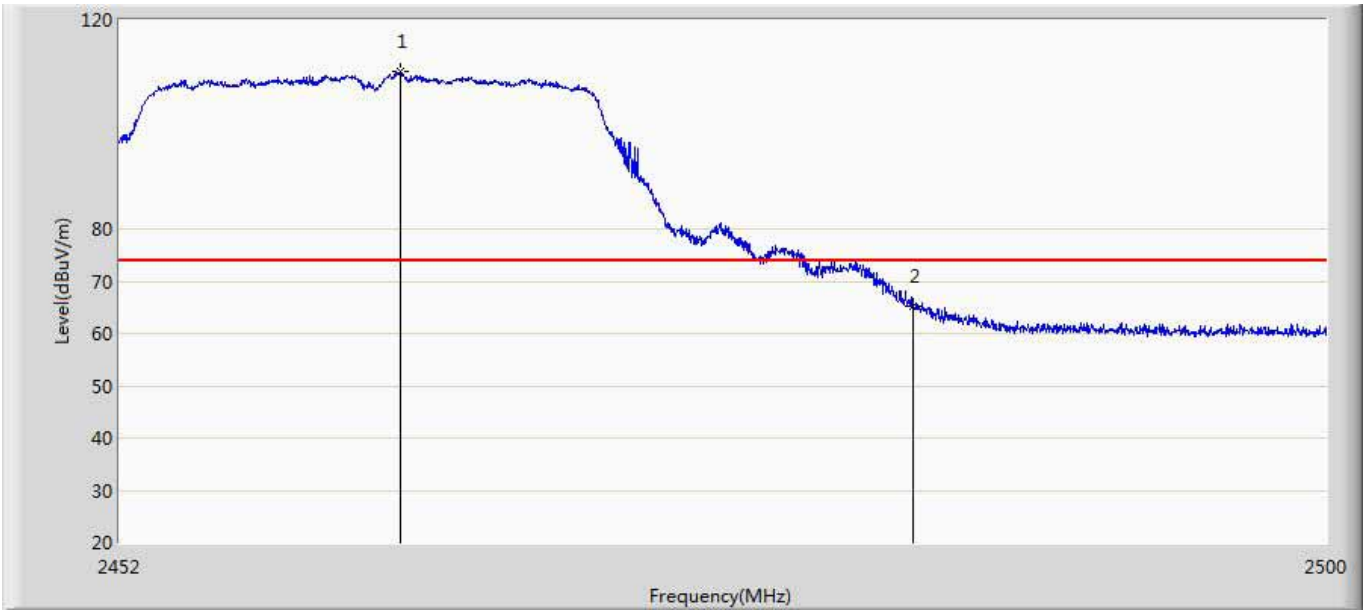
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	45.564	9.882	-8.436	54.000	35.682	AV
2	*	2439.105	92.996	57.190	38.996	54.000	35.805	AV
3		2483.500	46.654	10.762	-7.346	54.000	35.891	AV

Site: AC5	Time: 2017/02/19 - 12:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2462MHZ by 802.11n20	



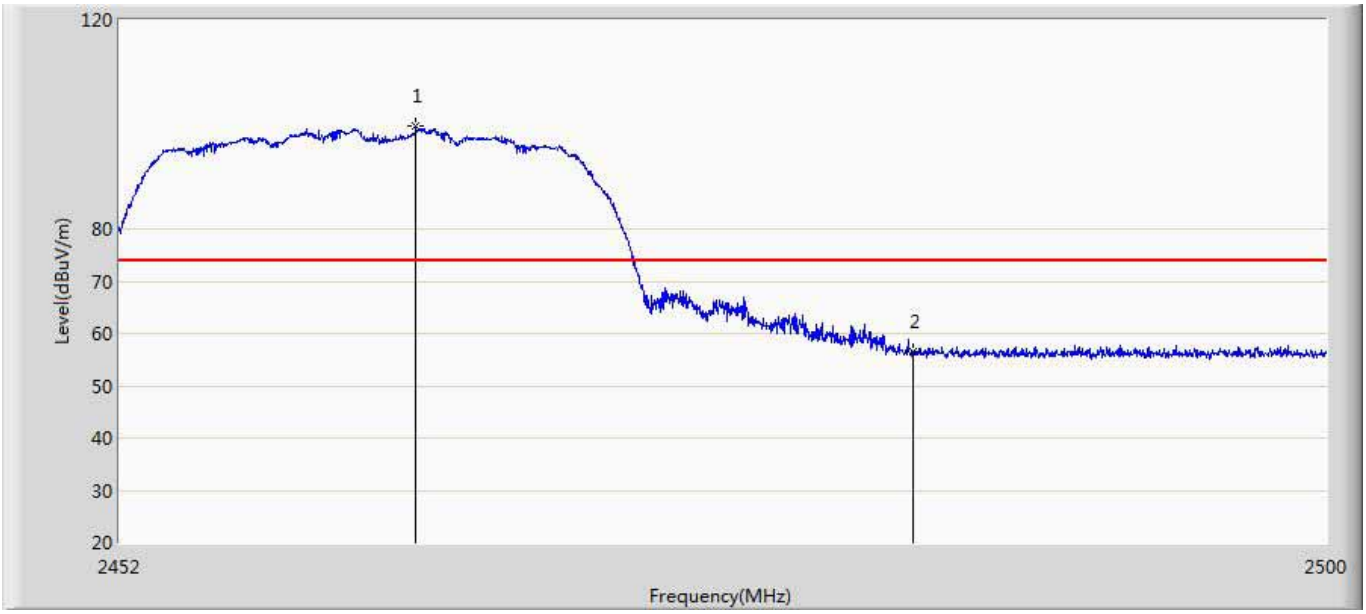
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2463.160	101.222	65.345	47.222	54.000	35.877	AV
2		2483.500	53.630	17.738	-0.370	54.000	35.891	AV

Site: AC5	Time: 2017/02/19 - 12:52
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2462MHZ by 802.11n20	



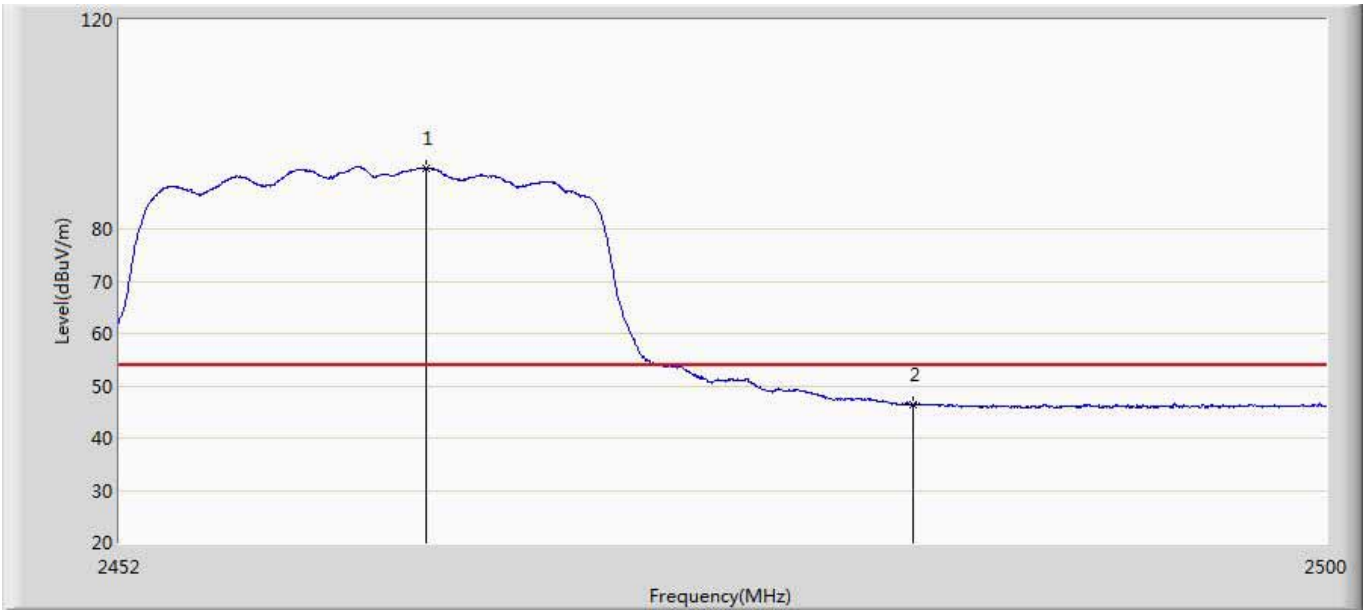
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2463.112	110.038	74.161	36.038	74.000	35.877	PK
2		2483.500	65.168	29.276	-8.832	74.000	35.891	PK

Site: AC5	Time: 2017/02/19 - 12:54
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2462MHZ by 802.11n20	



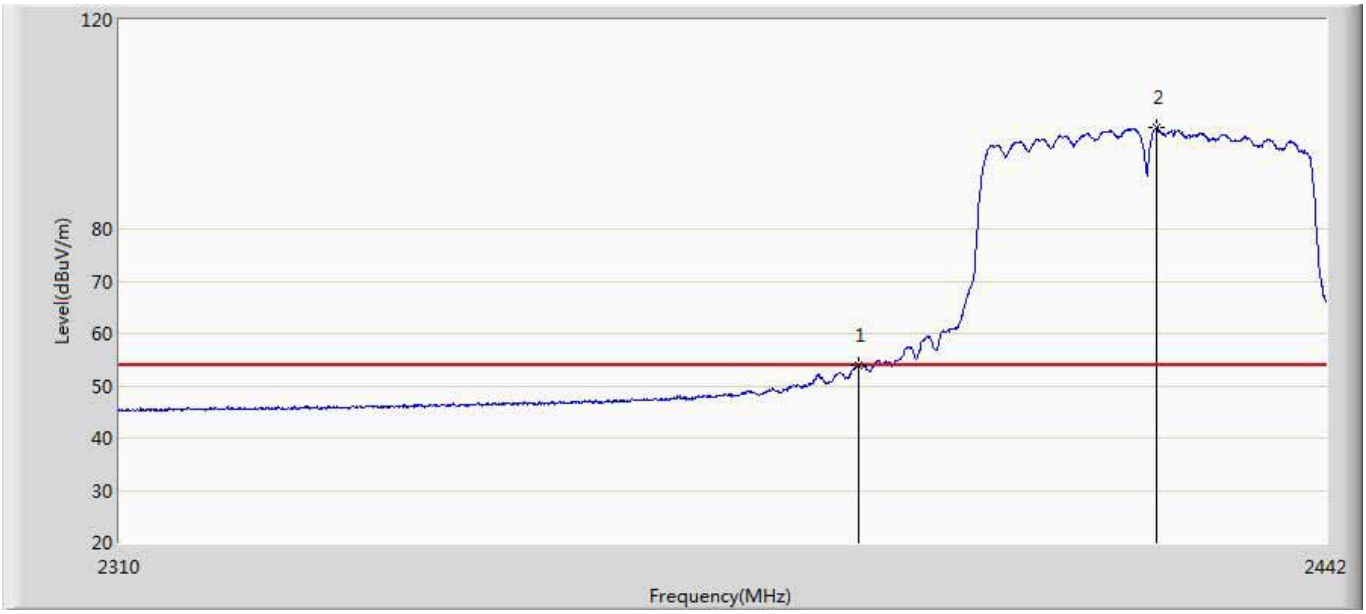
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2463.712	99.791	63.915	25.791	74.000	35.876	PK
2		2483.500	56.460	20.568	-17.540	74.000	35.891	PK

Site: AC5	Time: 2017/02/19 - 12:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2462MHZ by 802.11n20	



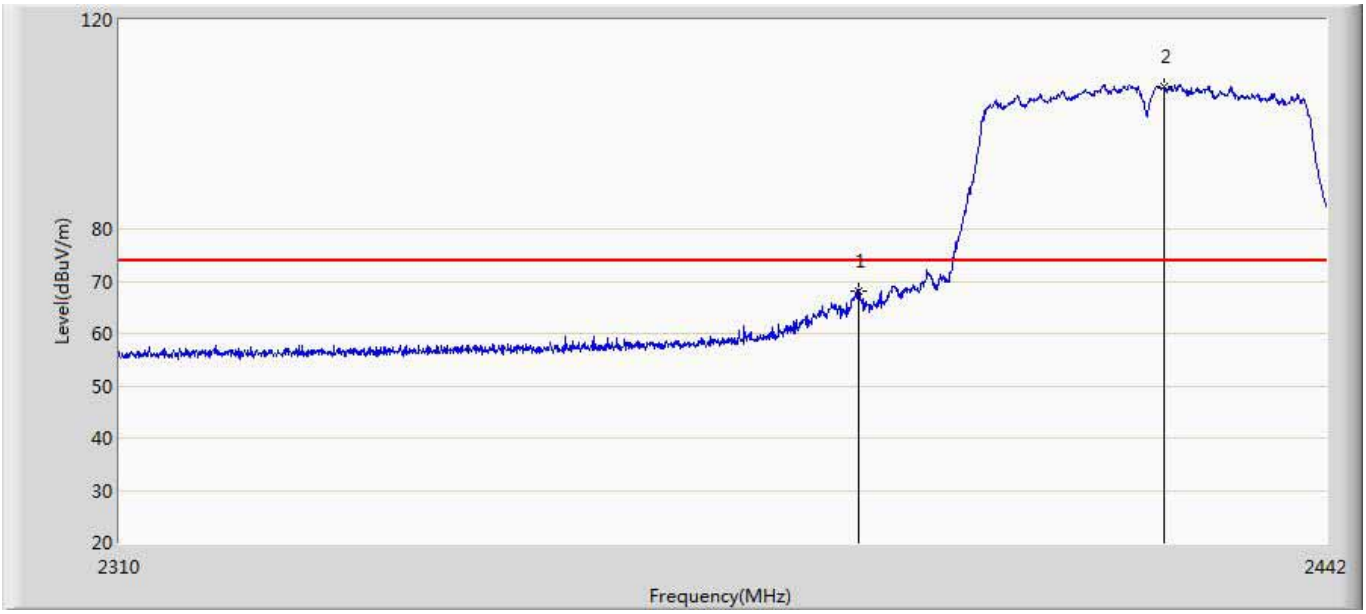
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2464.144	91.589	55.713	37.589	54.000	35.876	AV
2		2483.500	46.363	10.471	-7.637	54.000	35.891	AV

Site: AC5	Time: 2017/02/19 - 12:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2422MHZ by 802.11n40	



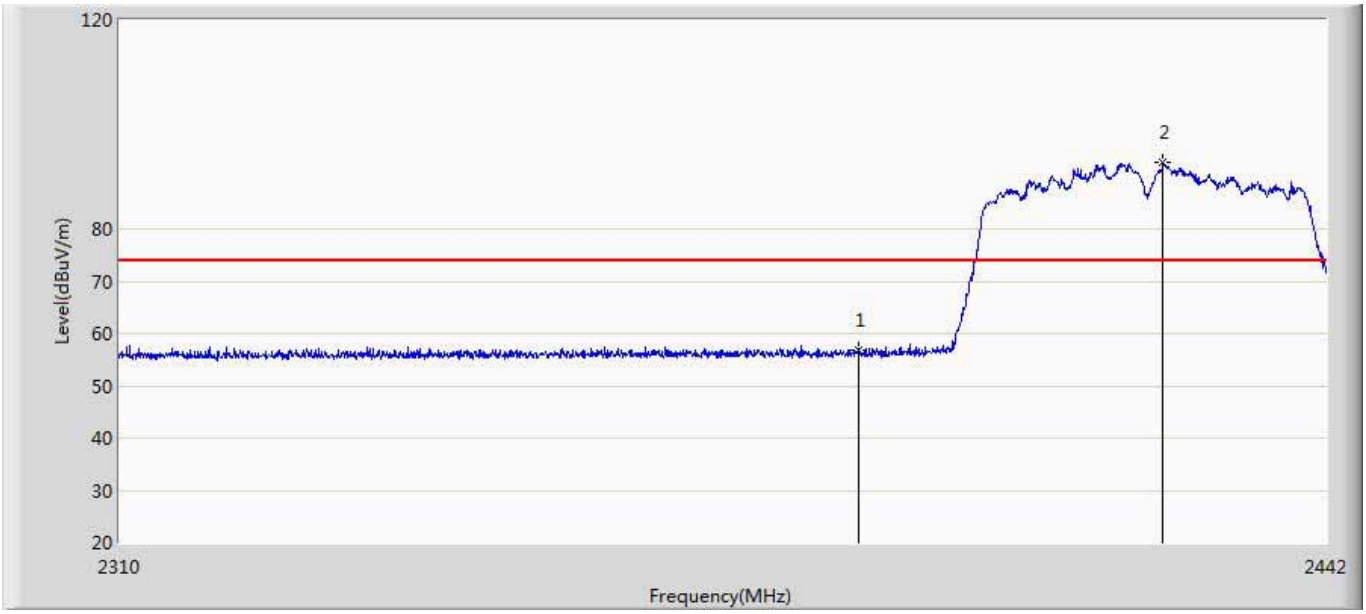
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.801	18.119	-0.199	54.000	35.682	AV
2	*	2423.058	99.392	63.604	45.392	54.000	35.788	AV

Site: AC5	Time: 2017/02/19 - 13:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2422MHZ by 802.11n40	



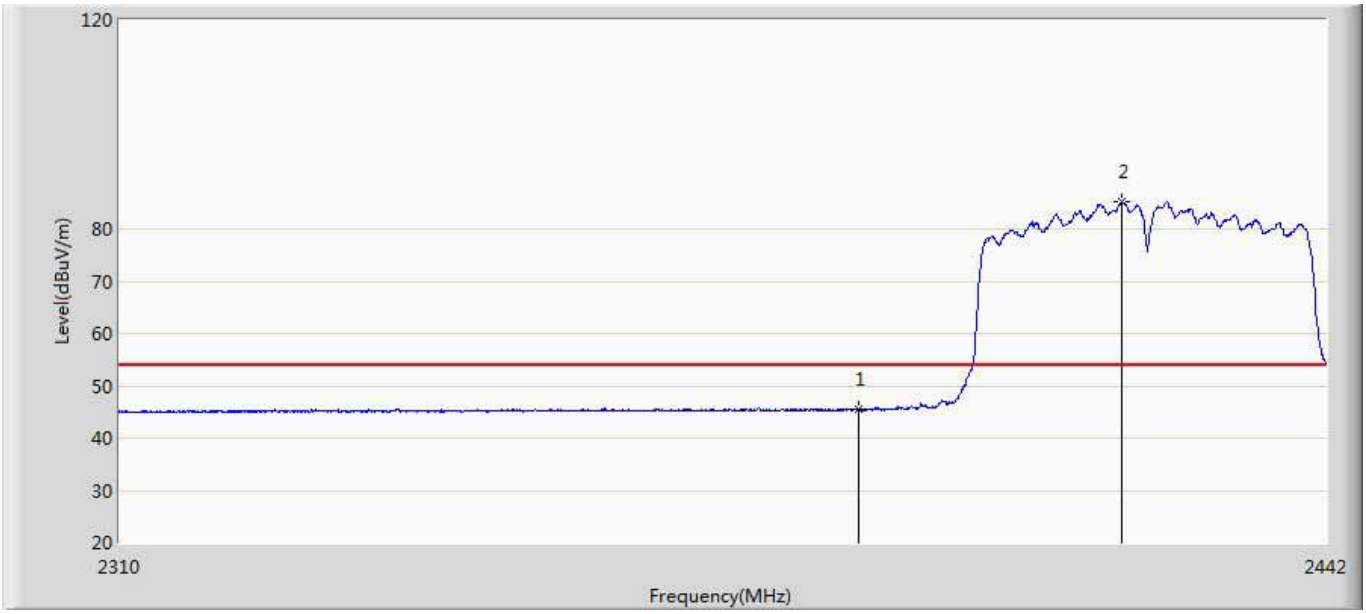
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	68.237	32.555	-5.763	74.000	35.682	PK
2	*	2423.850	107.338	71.547	33.338	74.000	35.791	PK

Site: AC5	Time: 2017/02/19 - 13:10
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2422MHZ by 802.11n40	



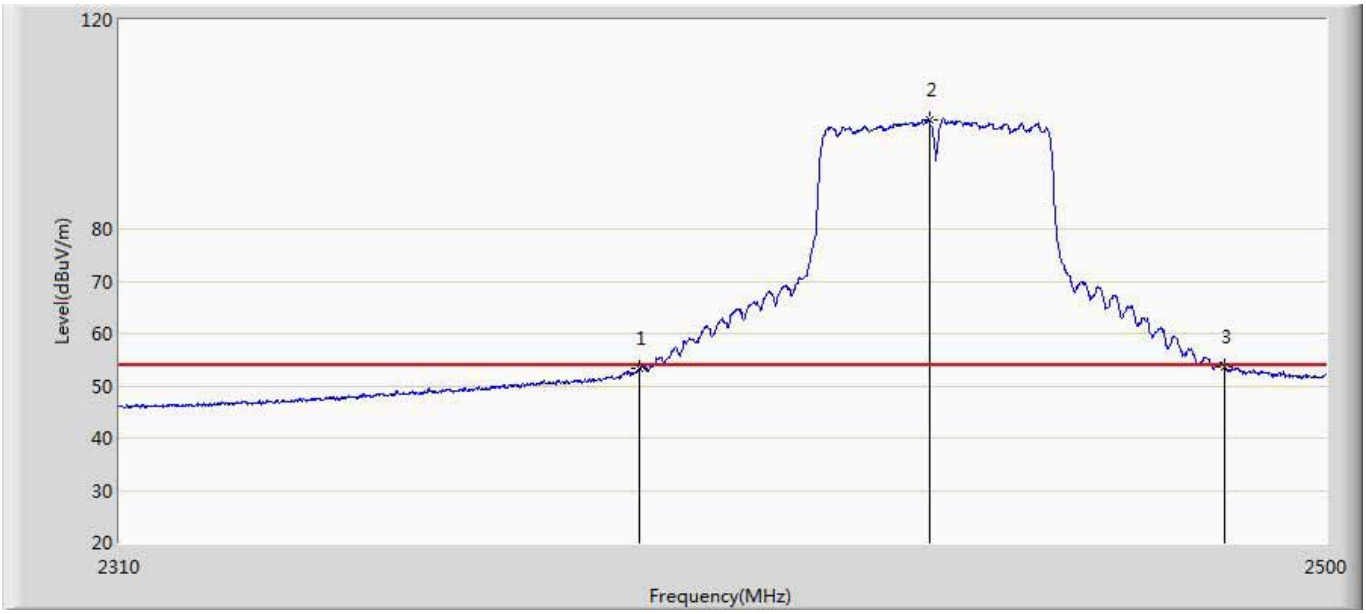
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	56.832	21.150	-17.168	74.000	35.682	PK
2	*	2423.718	92.635	56.844	18.635	74.000	35.791	PK

Site: AC5	Time: 2017/02/19 - 13:13
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2422MHZ by 802.11n40	



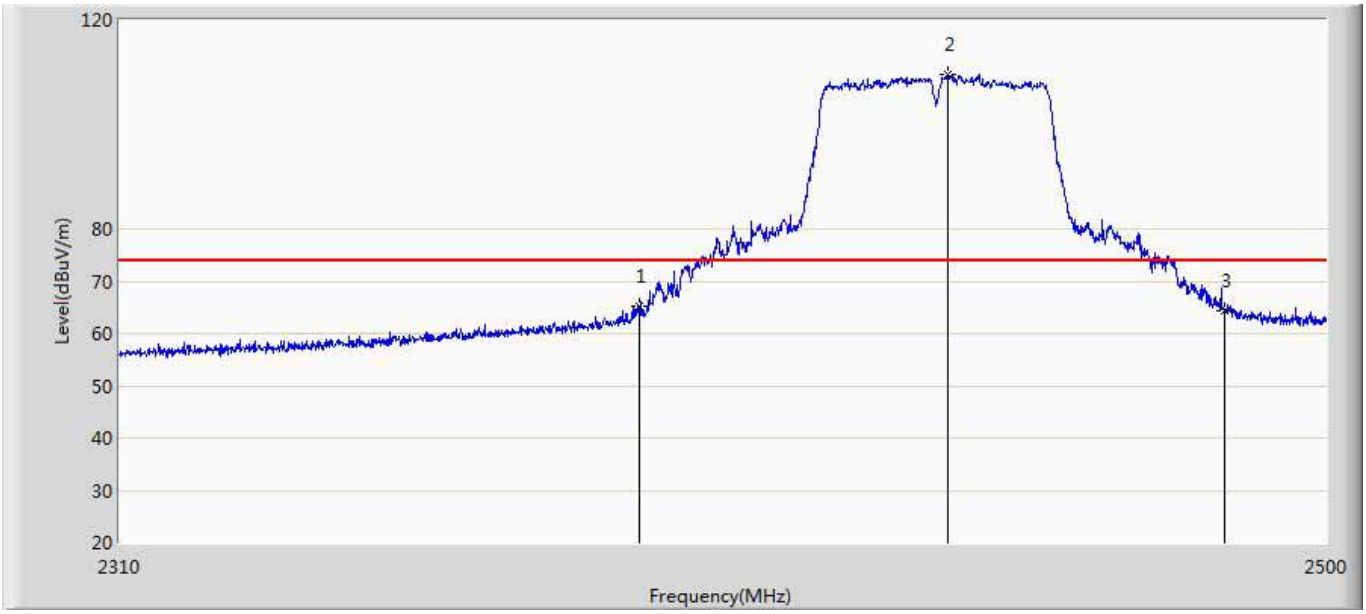
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	45.454	9.772	-8.546	54.000	35.682	AV
2	*	2419.164	85.133	49.362	31.133	54.000	35.771	AV

Site: AC5	Time: 2017/02/19 - 13:16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2437MHZ by 802.11n40	



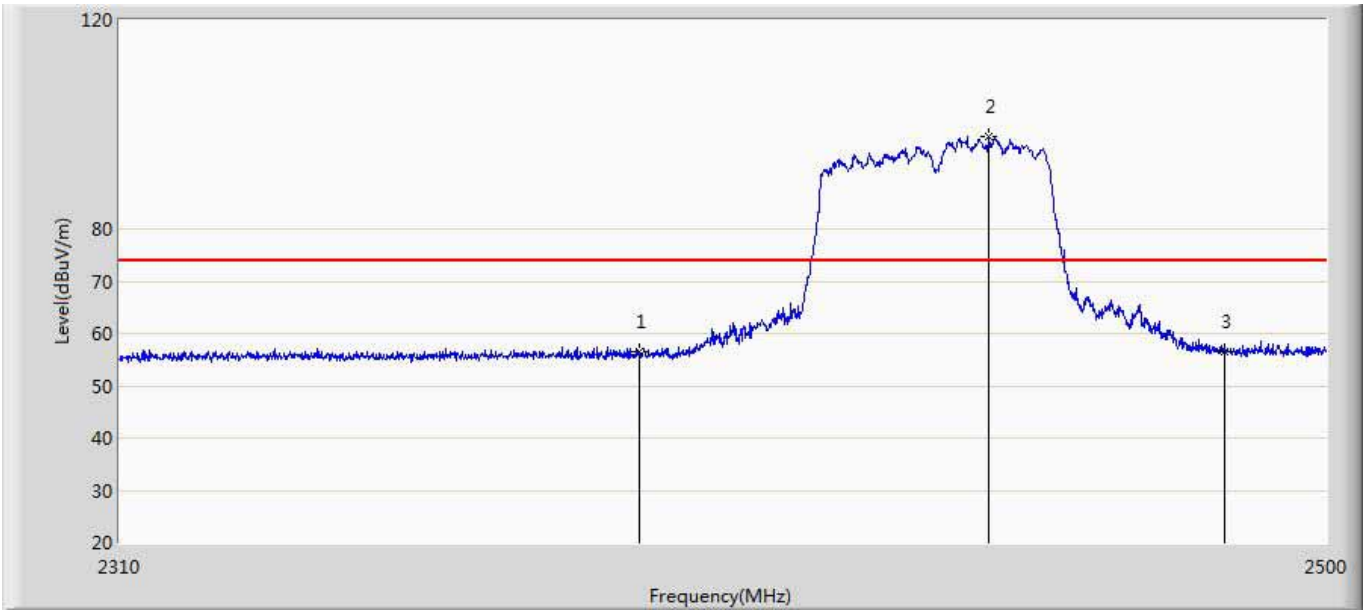
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.204	17.522	-0.796	54.000	35.682	AV
2	*	2435.875	100.904	65.098	46.904	54.000	35.806	AV
3		2483.500	53.729	17.837	-0.271	54.000	35.891	AV

Site: AC5	Time: 2017/02/19 - 13:22
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2437MHZ by 802.11n40	



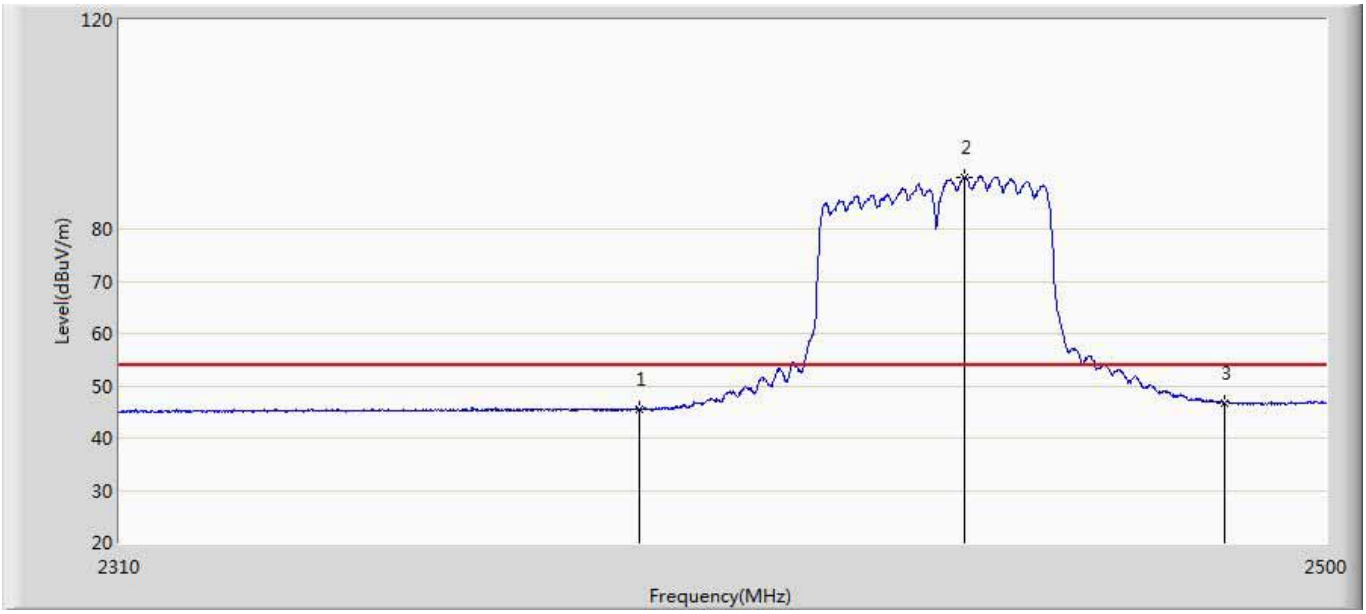
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	65.194	29.512	-8.806	74.000	35.682	PK
2	*	2438.915	109.652	73.846	35.652	74.000	35.806	PK
3		2483.500	64.400	28.508	-9.600	74.000	35.891	PK

Site: AC5	Time: 2017/02/19 - 13:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2437MHZ by 802.11n40	



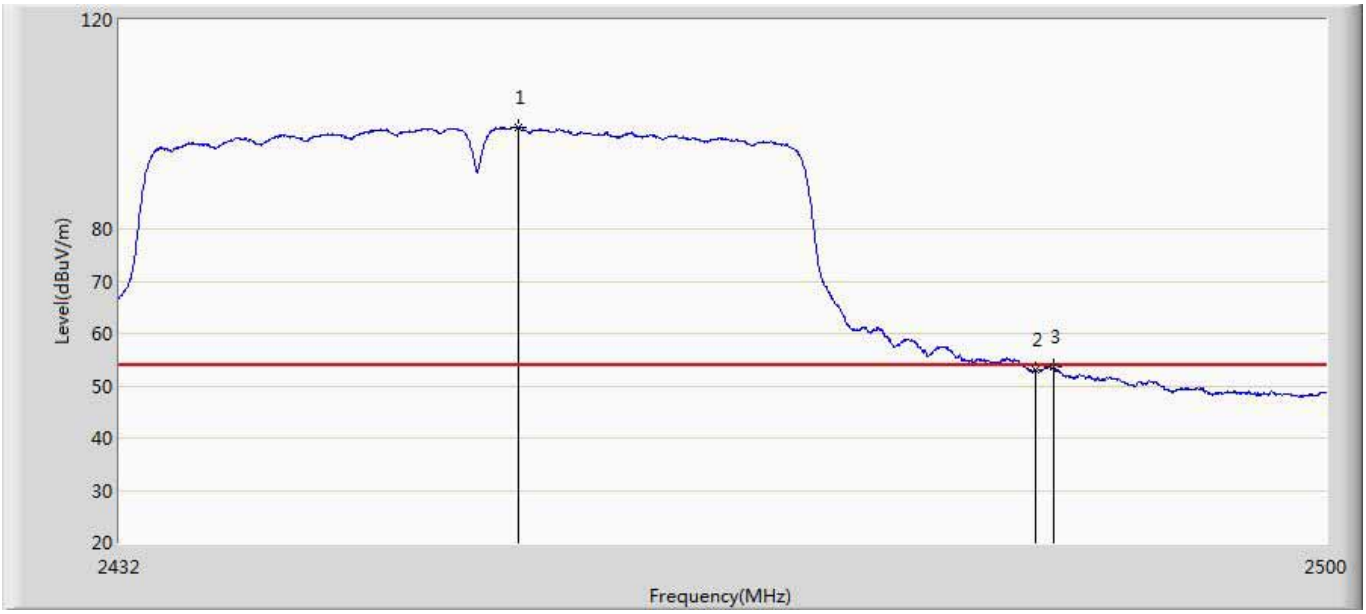
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	56.395	20.713	-17.605	74.000	35.682	PK
2	*	2445.470	97.815	62.009	23.815	74.000	35.806	PK
3		2483.500	56.398	20.506	-17.602	74.000	35.891	PK

Site: AC5	Time: 2017/02/19 - 13:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2437MHZ by 802.11n40	



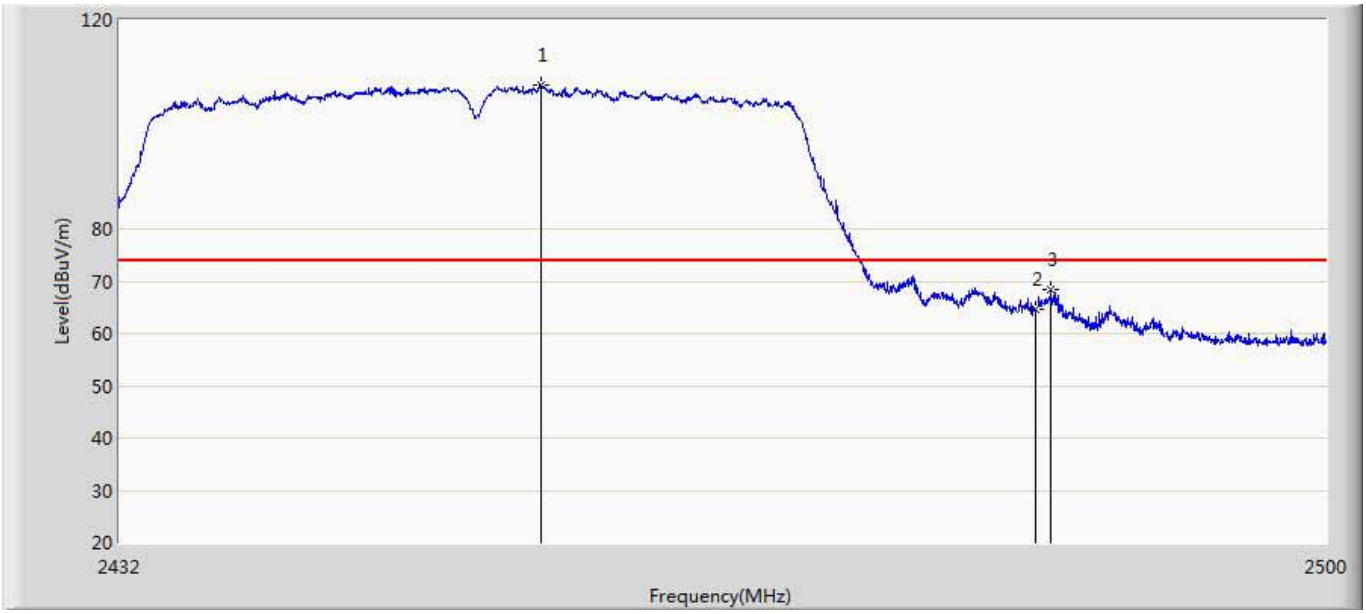
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	45.386	9.704	-8.614	54.000	35.682	AV
2	*	2441.480	89.886	54.081	35.886	54.000	35.805	AV
3		2483.500	46.725	10.833	-7.275	54.000	35.891	AV

Site: AC5	Time: 2017/02/19 - 13:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2452MHZ by 802.11n40	



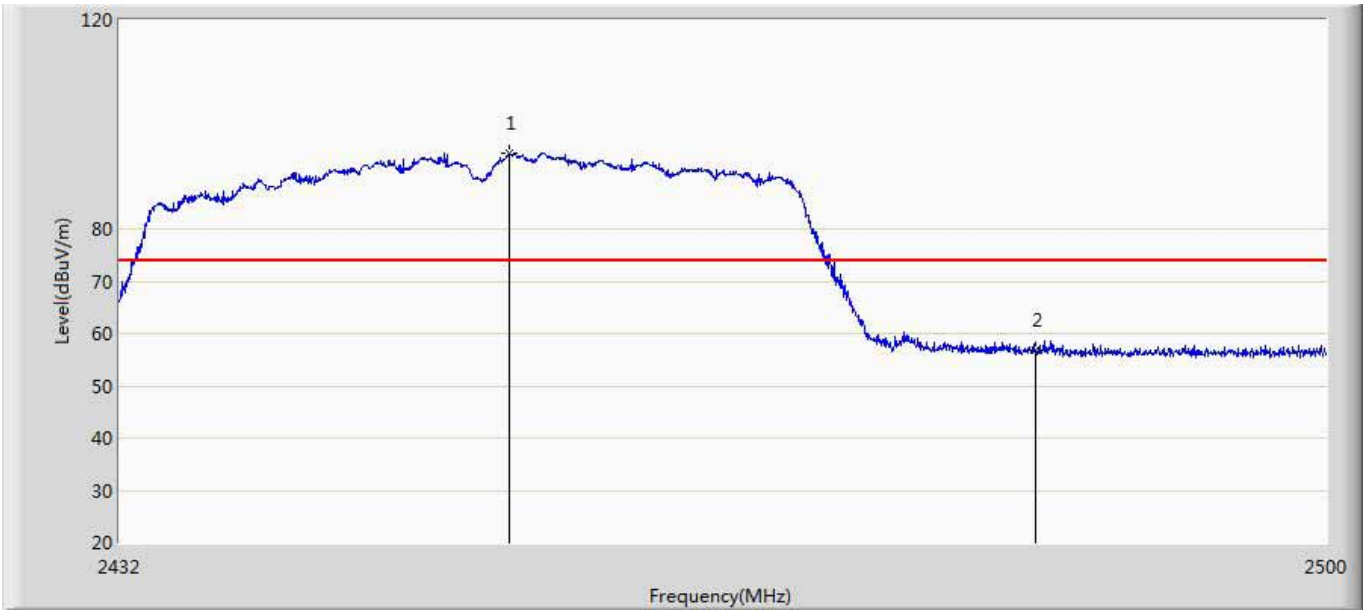
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2454.304	99.392	63.547	45.392	54.000	35.845	AV
2		2483.500	53.033	17.141	-0.967	54.000	35.891	AV
3		2484.496	53.625	17.726	-0.375	54.000	35.898	AV

Site: AC5	Time: 2017/02/19 - 13:57
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2452MHZ by 802.11n40	



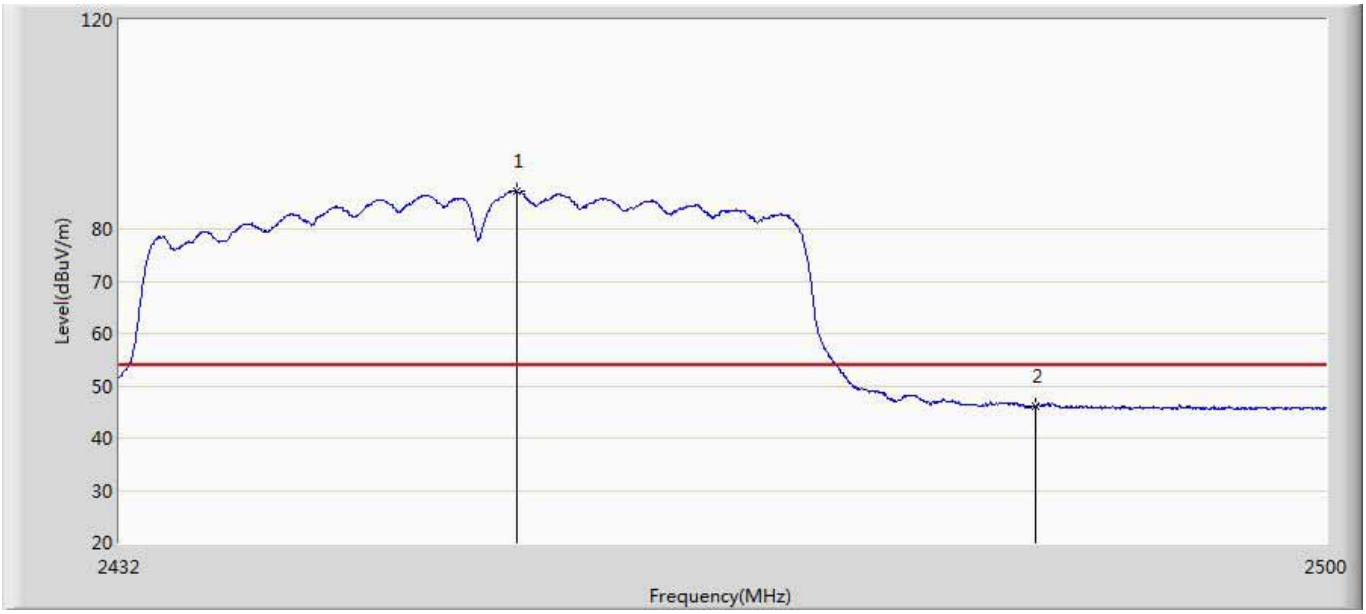
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2455.596	107.661	71.811	33.661	74.000	35.850	PK
2		2483.500	64.637	28.745	-9.363	74.000	35.891	PK
3		2484.360	68.439	32.541	-5.561	74.000	35.898	PK

Site: AC5	Time: 2017/02/19 - 13:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2452MHZ by 802.11n40	



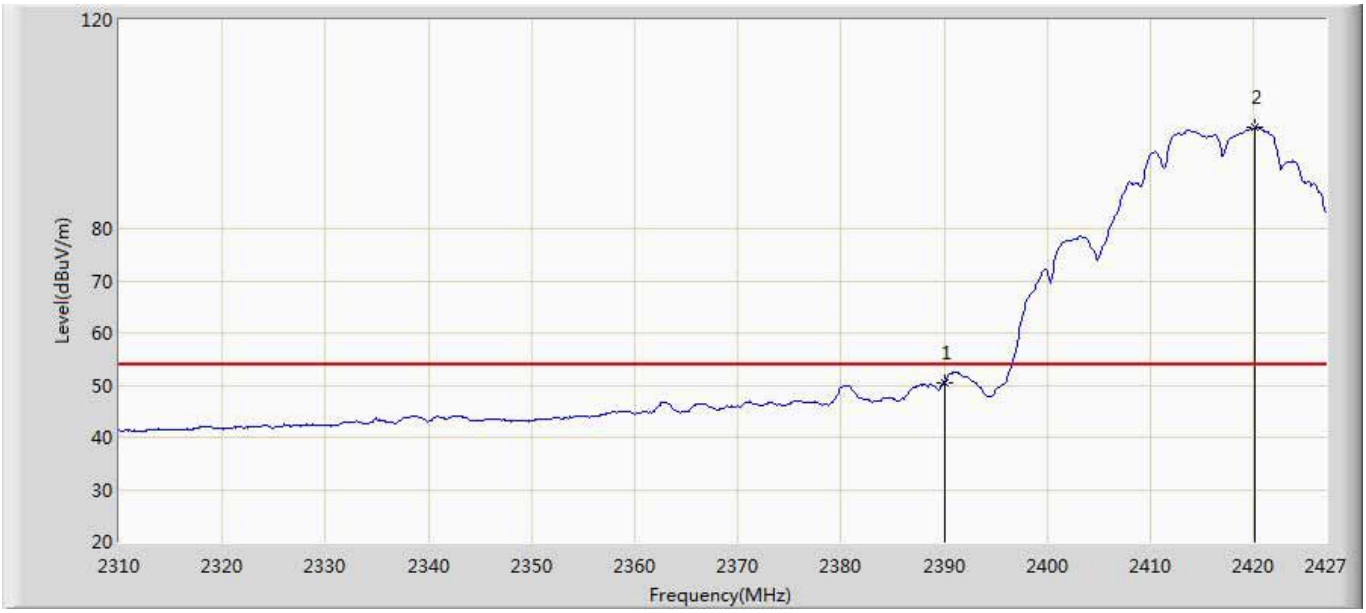
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2453.794	94.393	58.551	20.393	74.000	35.842	PK
2		2483.500	56.708	20.816	-17.292	74.000	35.891	PK

Site: AC5	Time: 2017/02/19 - 14:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2452MHZ by 802.11n40	



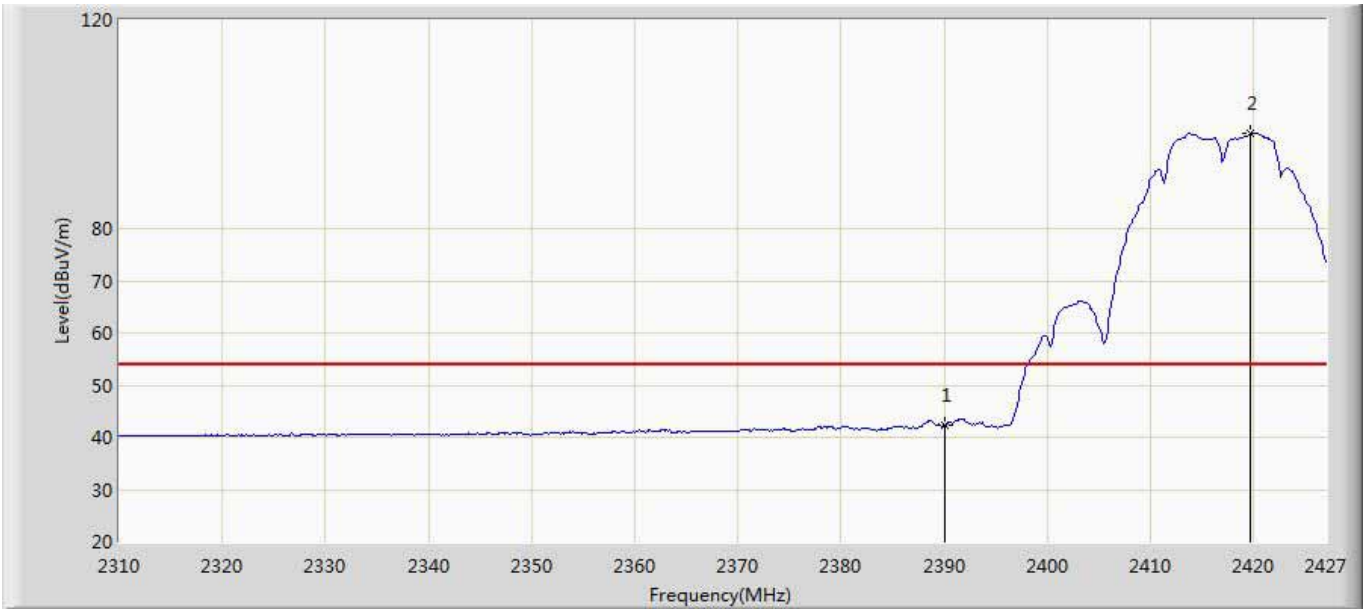
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2454.202	87.132	51.288	33.132	54.000	35.844	AV
2		2483.500	45.993	10.101	-8.007	54.000	35.891	AV

Site: AC5	Time: 2017/06/24 - 11:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2417MHZ by 802.11a	



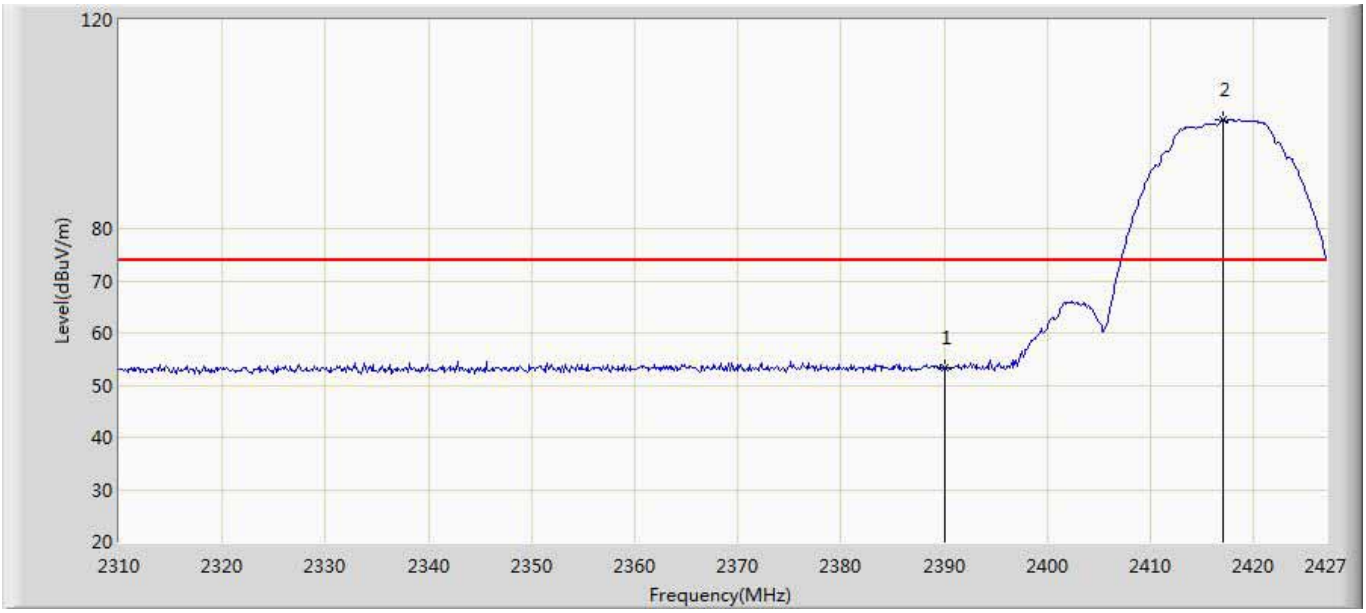
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	50.570	14.888	-3.430	54.000	35.682	AV
2	*	2420.097	99.399	63.624	45.399	54.000	35.775	AV

Site: AC5	Time: 2017/06/24 - 11:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2417MHZ by 802.11a	



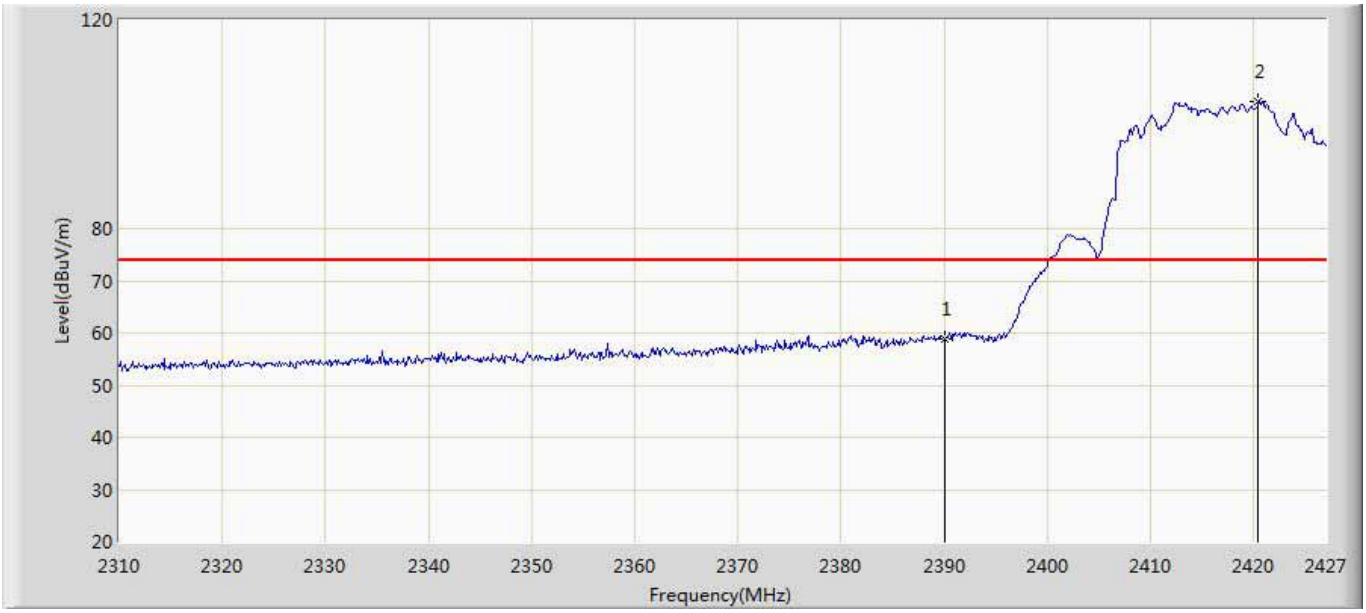
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	42.461	6.779	-11.539	54.000	35.682	AV
2	*	2419.629	98.231	62.458	44.231	54.000	35.774	AV

Site: AC5	Time: 2017/06/24 - 11:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2417MHZ by 802.11a	



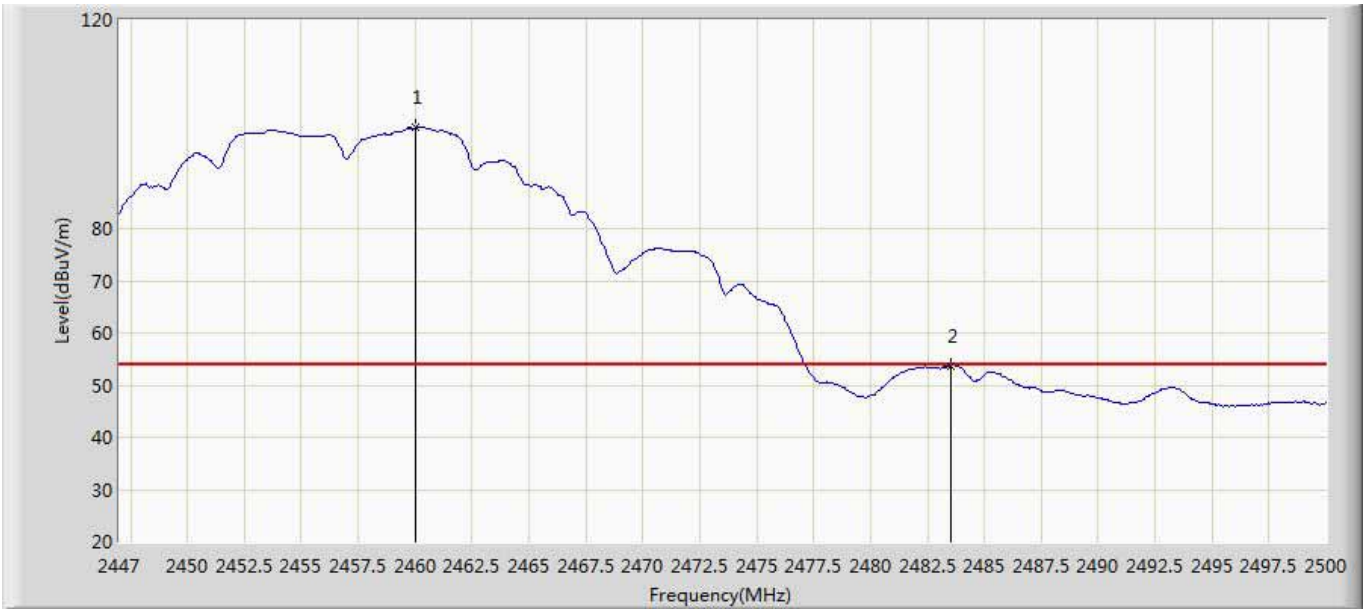
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.268	17.586	-20.732	74.000	35.682	PK
2	*	2417.055	100.931	65.168	26.931	74.000	35.762	PK

Site: AC5	Time: 2017/06/24 - 11:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2417MHZ by 802.11a	



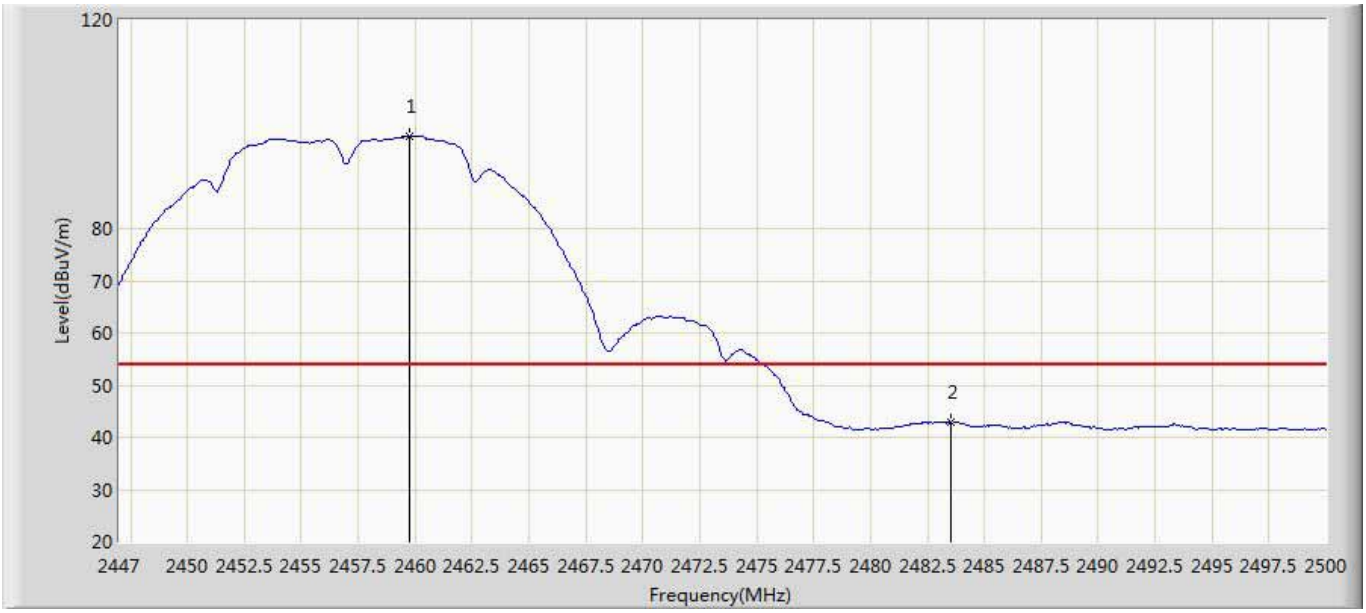
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	58.814	23.132	-15.186	74.000	35.682	PK
2	*	2420.448	104.463	68.686	30.463	74.000	35.777	PK

Site: AC5	Time: 2017/06/24 - 11:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2457MHZ by 802.11a	



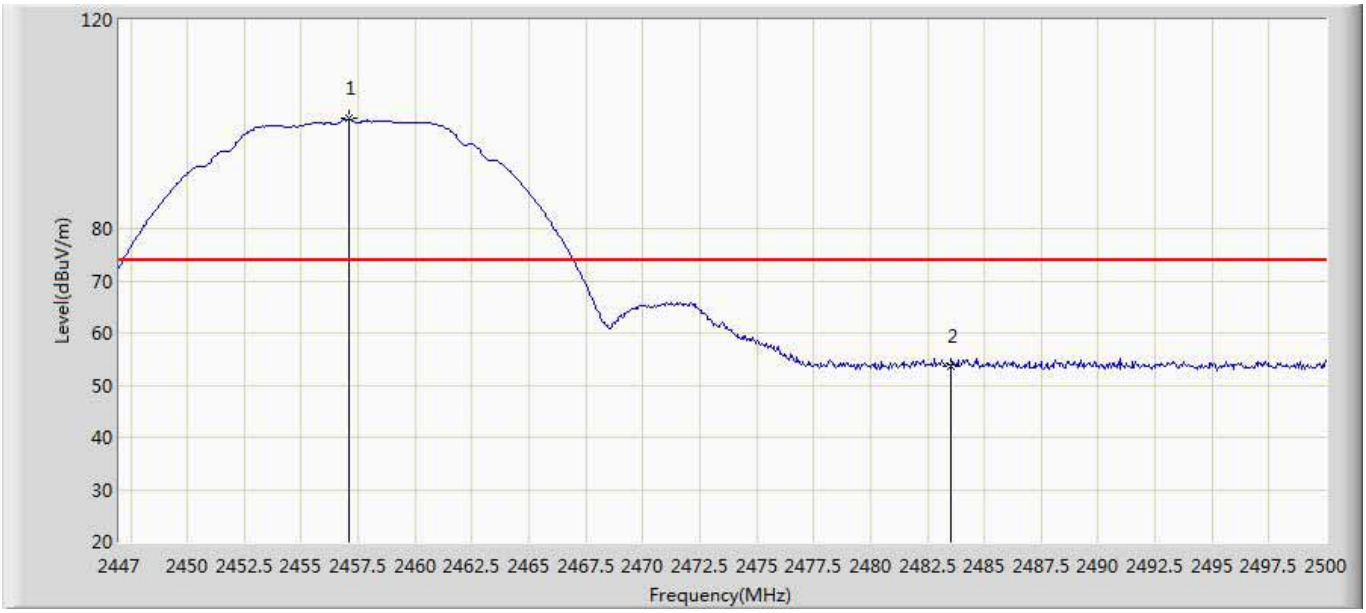
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2460.038	99.353	63.483	45.353	54.000	35.870	AV
2		2483.500	53.741	17.849	-0.259	54.000	35.891	AV

Site: AC5	Time: 2017/06/24 - 11:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2457MHZ by 802.11a	



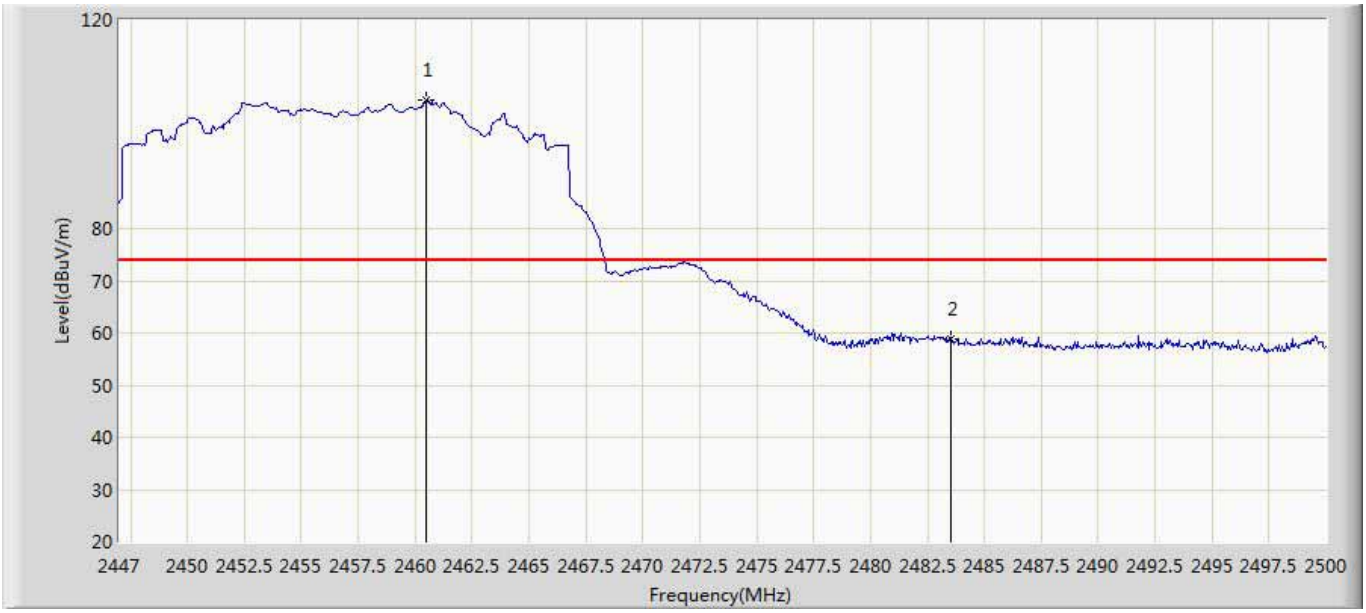
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2459.720	97.806	61.938	43.806	54.000	35.868	AV
2		2483.500	42.978	7.086	-11.022	54.000	35.891	AV

Site: AC5	Time: 2017/06/24 - 11:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2457MHZ by 802.11a	



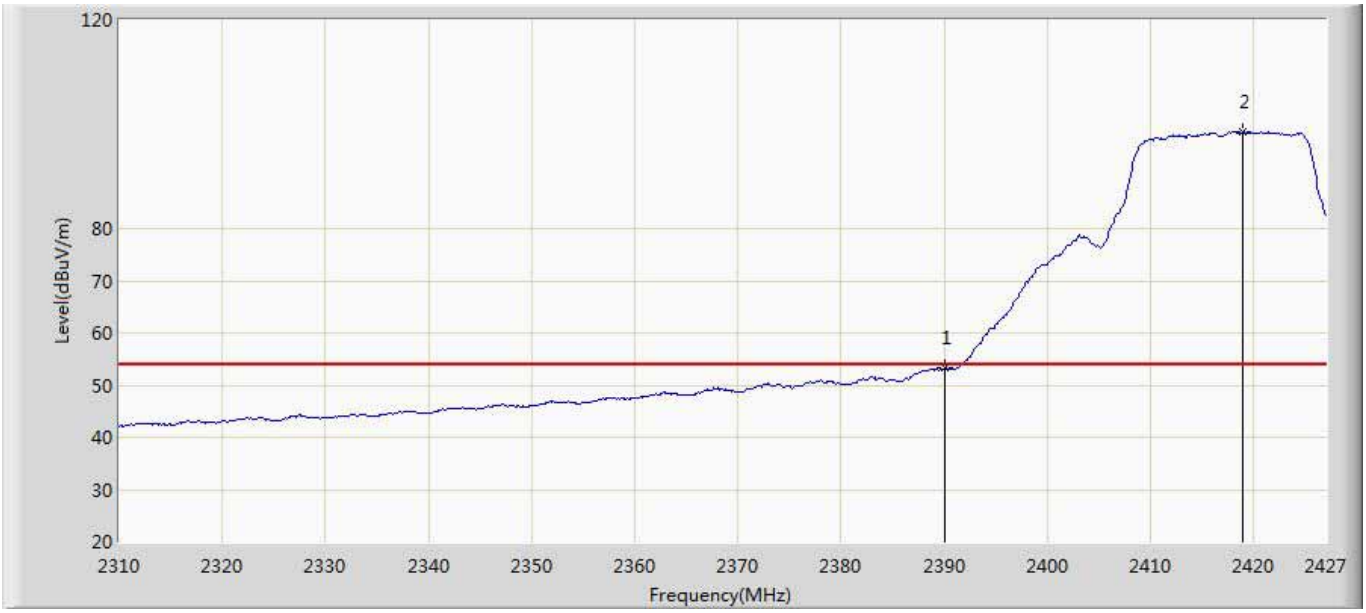
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2457.123	101.019	65.162	27.019	74.000	35.857	PK
2		2483.500	53.735	17.843	-20.265	74.000	35.891	PK

Site: AC5	Time: 2017/06/24 - 11:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2457MHZ by 802.11a	



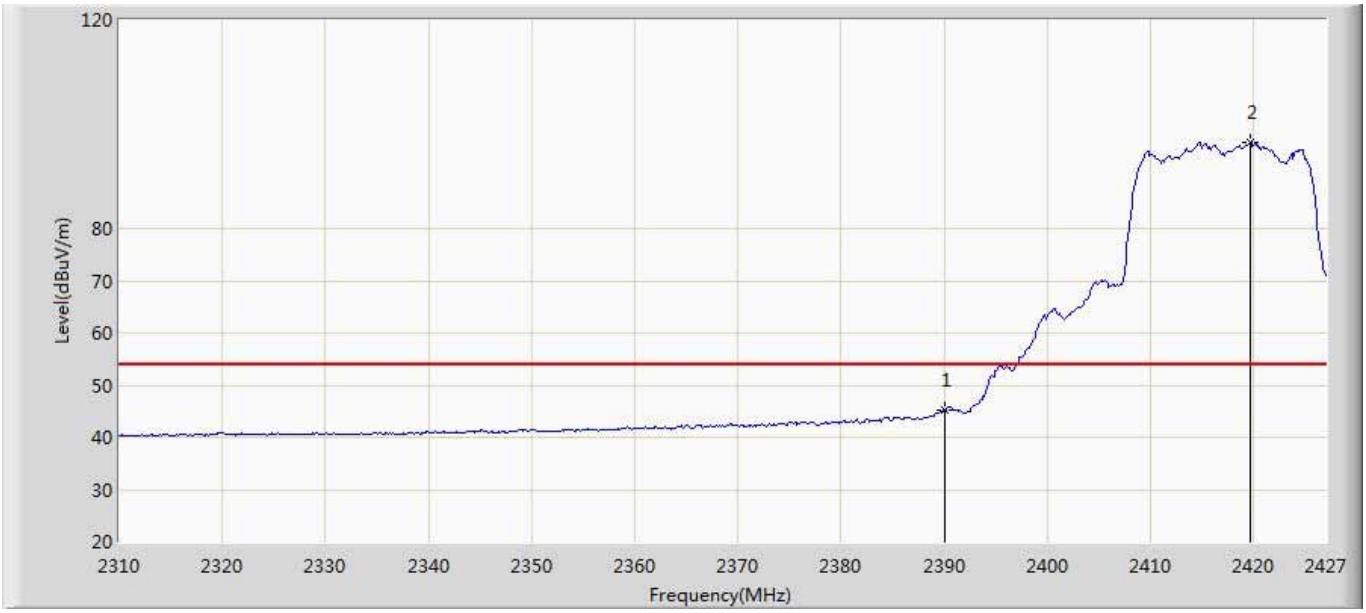
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2460.515	104.589	68.717	30.589	74.000	35.872	PK
2		2483.500	58.907	23.015	-15.093	74.000	35.891	PK

Site: AC5	Time: 2017/06/24 - 13:14
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2417MHZ by 802.11g	



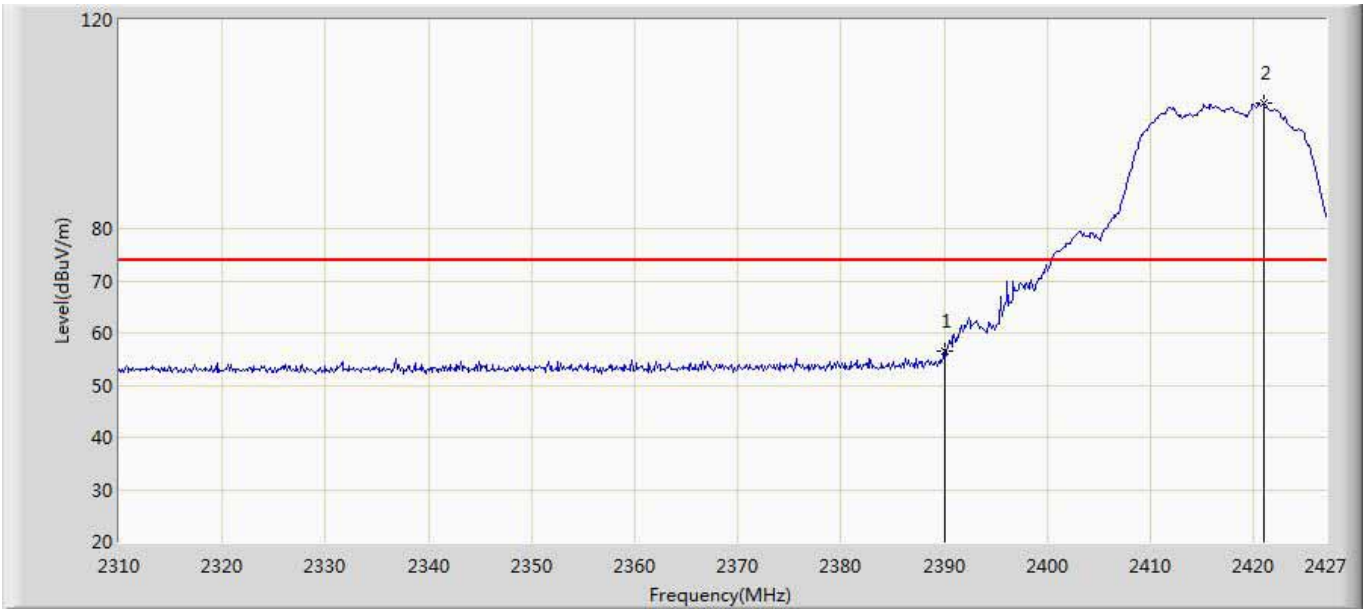
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.239	17.557	-0.761	54.000	35.682	AV
2	*	2418.927	98.443	62.673	44.443	54.000	35.771	AV

Site: AC5	Time: 2017/06/24 - 13:19
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2417MHZ by 802.11g	



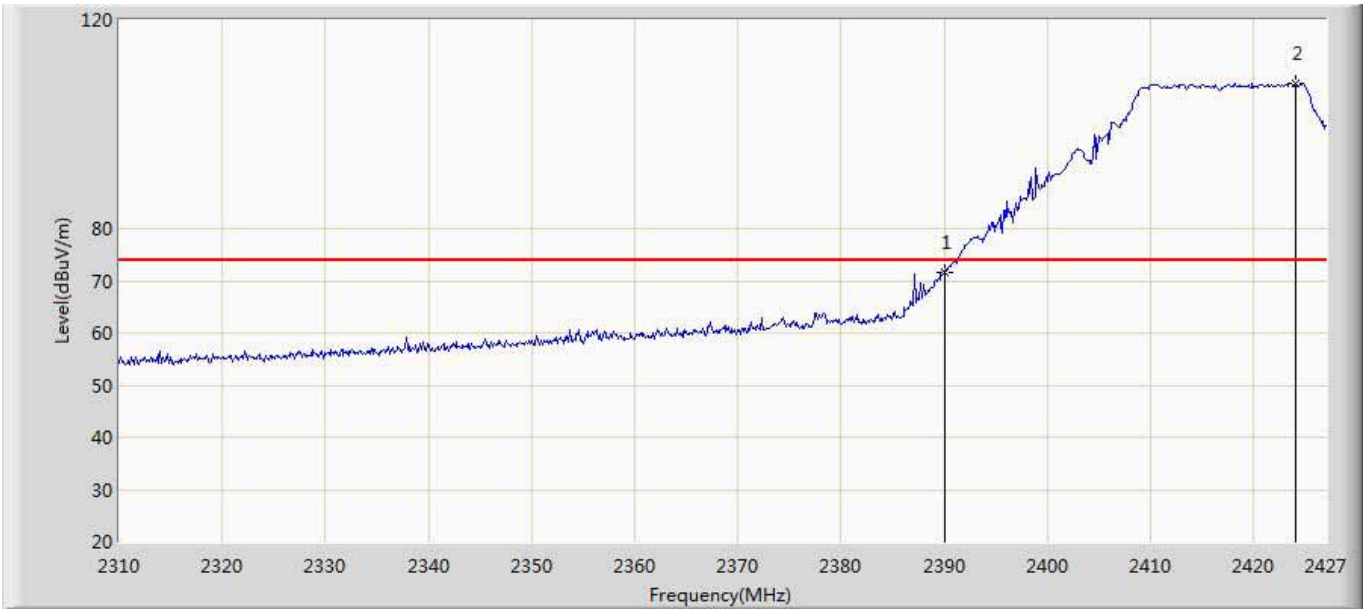
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	45.161	9.479	-8.839	54.000	35.682	AV
2	*	2419.629	96.558	60.785	42.558	54.000	35.774	AV

Site: AC5	Time: 2017/06/24 - 13:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2417MHZ by 802.11g	



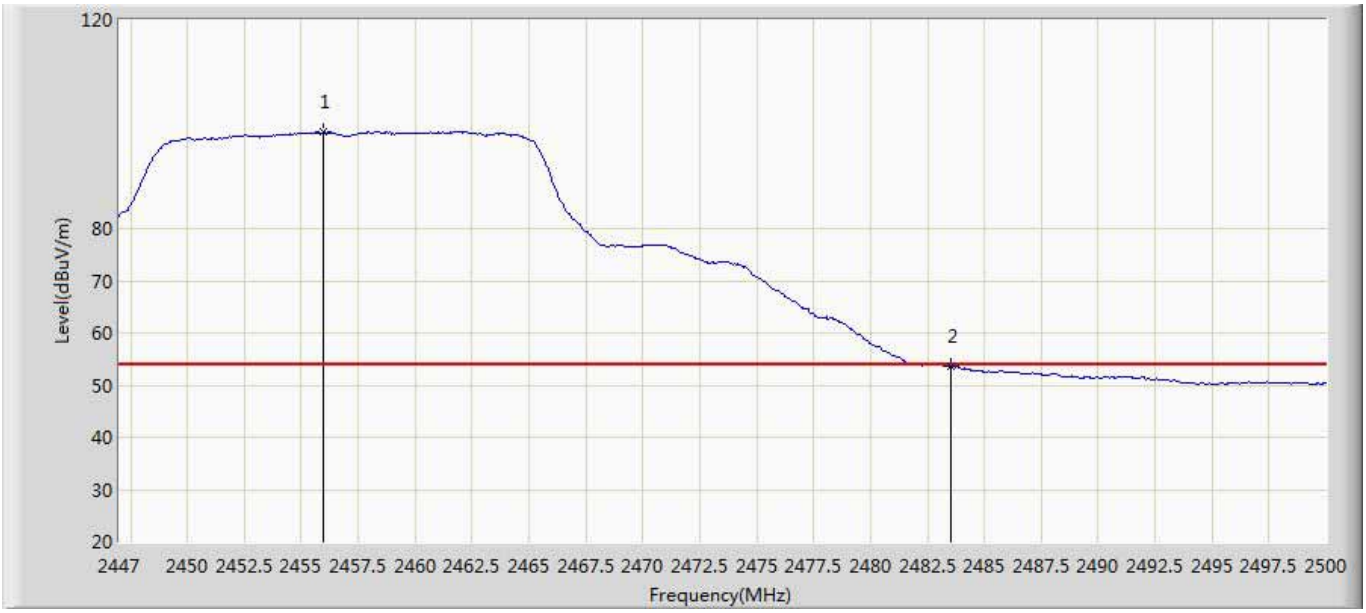
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	56.552	20.870	-17.448	74.000	35.682	PK
2	*	2420.916	104.179	68.400	30.179	74.000	35.779	PK

Site: AC5	Time: 2017/06/24 - 13:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2417MHZ by 802.11g	



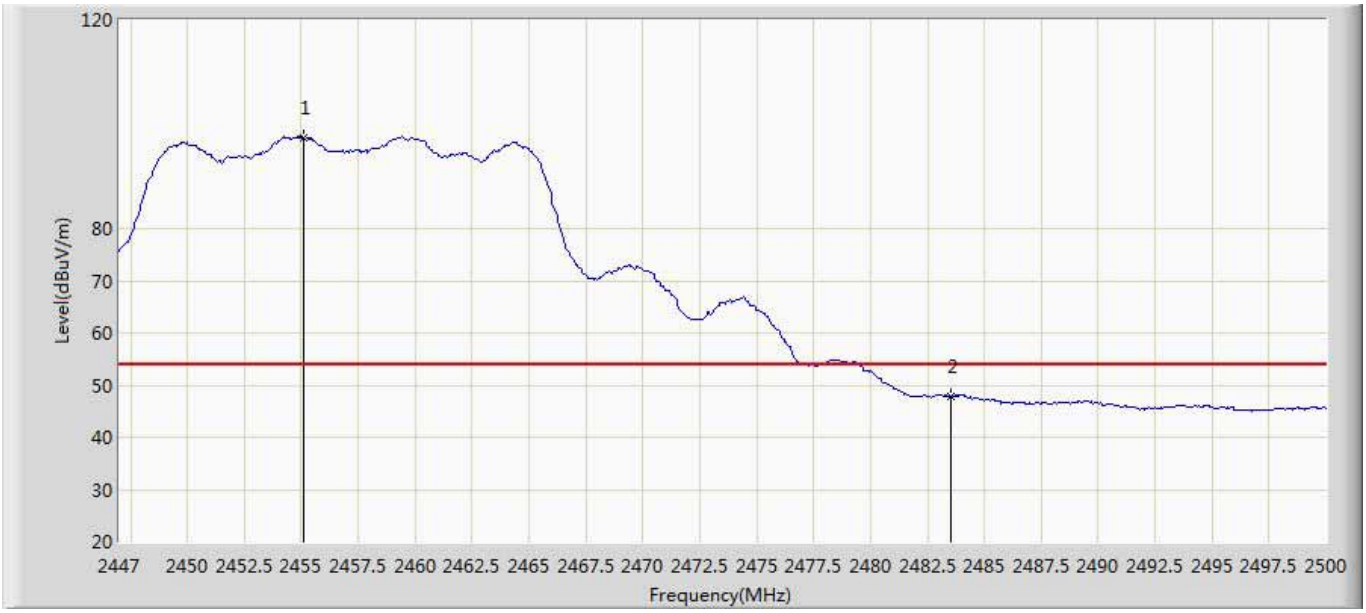
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	71.516	35.834	-2.484	74.000	35.682	PK
2	*	2424.075	107.798	72.006	33.798	74.000	35.792	PK

Site: AC5	Time: 2017/06/24 - 13:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2457MHZ by 802.11g	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2455.957	98.420	62.568	44.420	54.000	35.852	AV
2		2483.500	53.671	17.779	-0.329	54.000	35.891	AV

Site: AC5	Time: 2017/06/24 - 13:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2457MHZ by 802.11g	

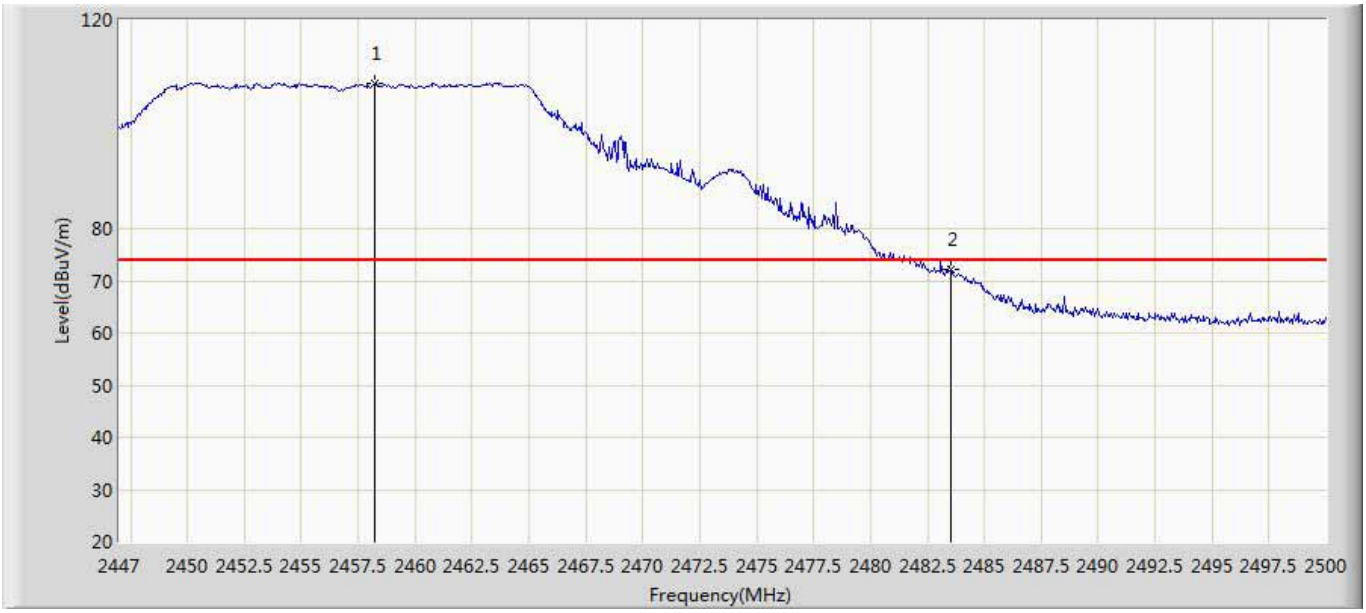


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2455.109	97.499	61.651	43.499	54.000	35.848	AV
2		2483.500	47.828	11.936	-6.172	54.000	35.891	AV

Site: AC5	Time: 2017/06/24 - 13:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2457MHZ by 802.11g	

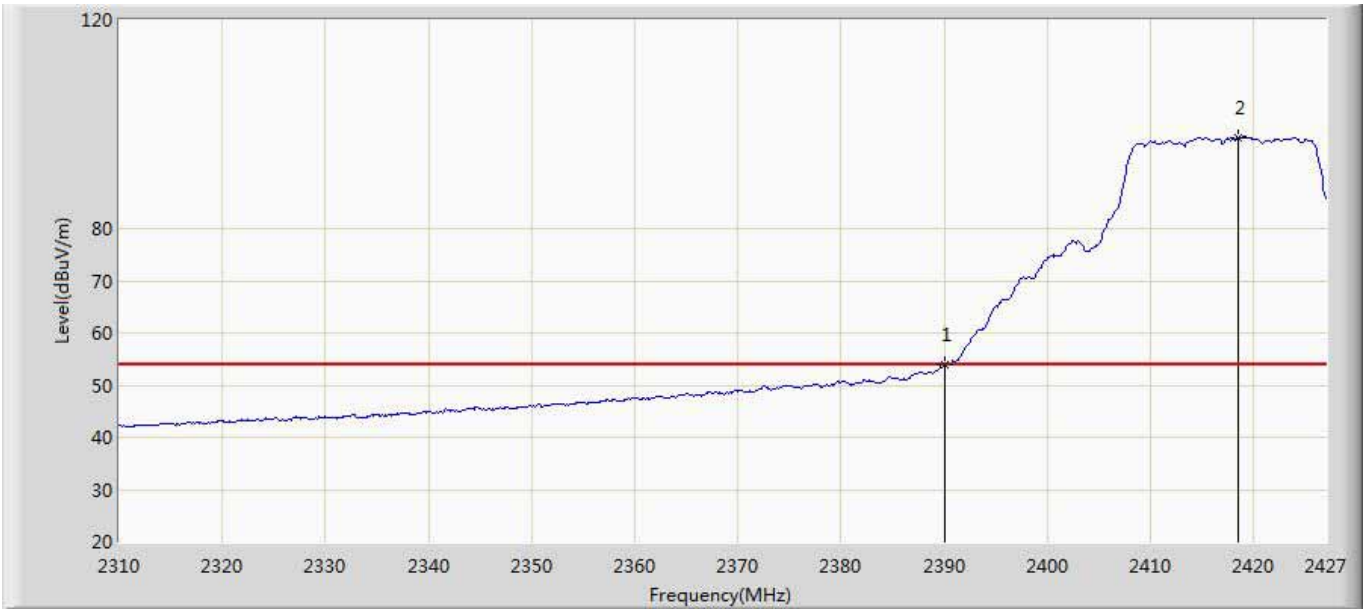
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2458.183	103.777	67.915	29.777	74.000	35.862	PK
2		2483.500	58.150	22.258	-15.850	74.000	35.891	PK

Site: AC5	Time: 2017/06/24 - 13:30
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2457MHZ by 802.11g	



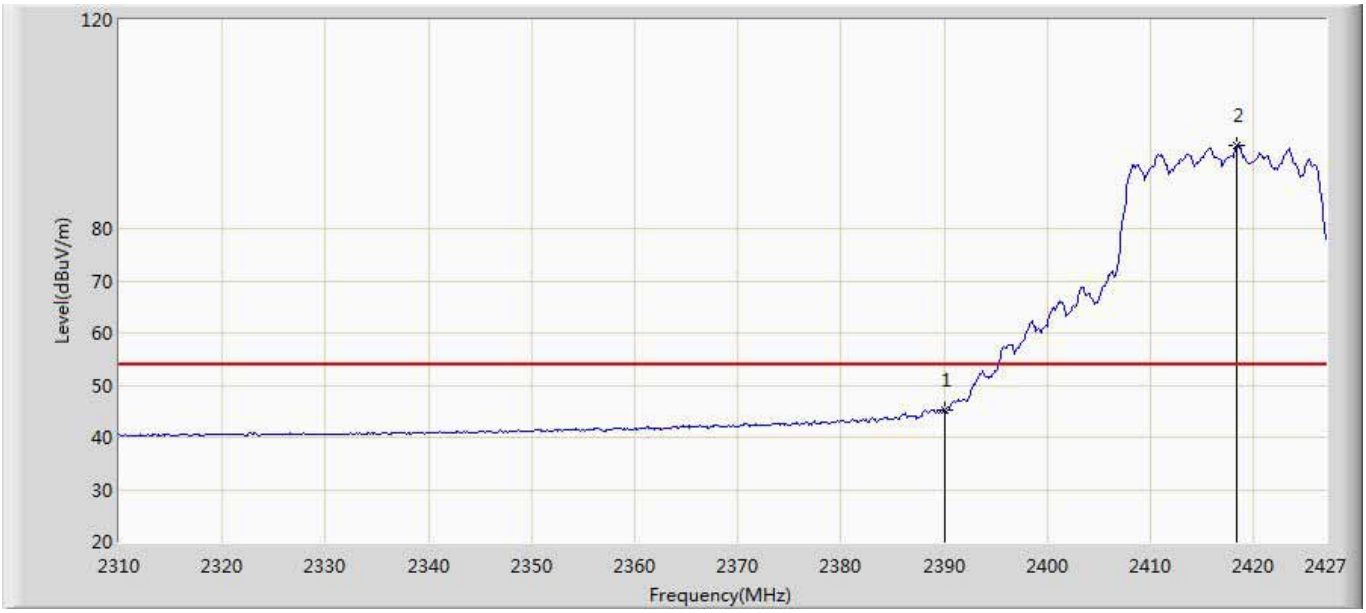
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2458.236	107.858	71.996	33.858	74.000	35.862	PK
2		2483.500	72.151	36.259	-1.849	74.000	35.891	PK

Site: AC5	Time: 2017/06/24 - 13:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2417MHZ by 802.11n20	



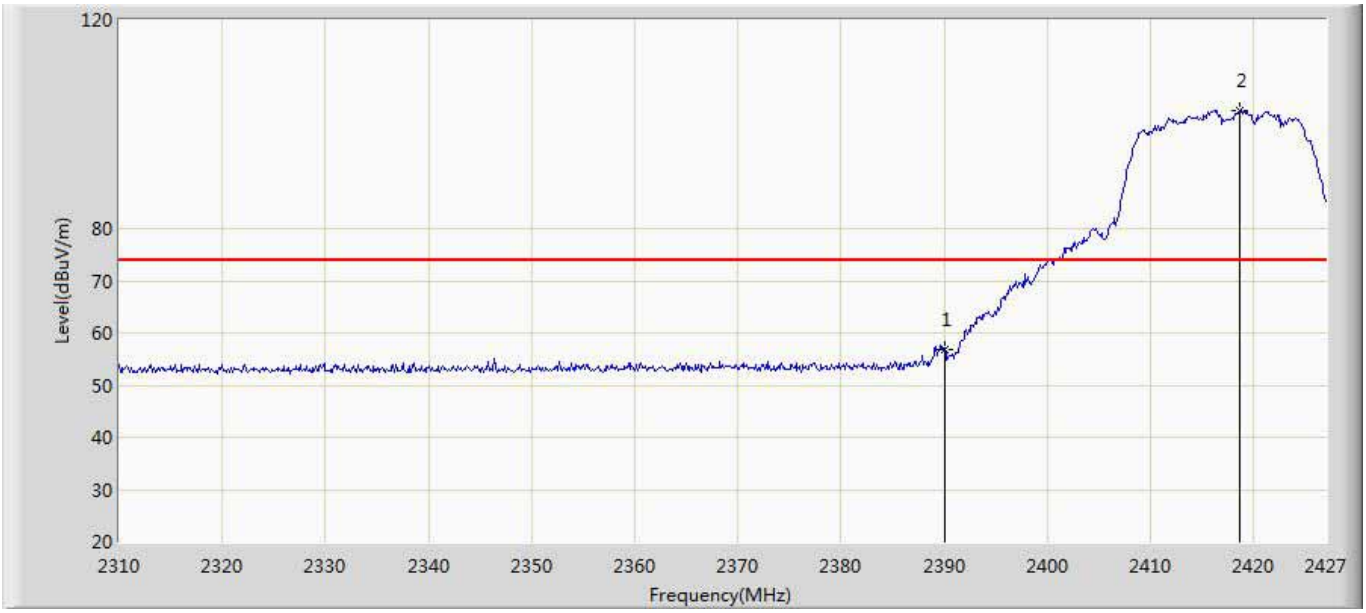
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.774	18.092	-0.226	54.000	35.682	AV
2	*	2418.459	97.491	61.722	43.491	54.000	35.768	AV

Site: AC5	Time: 2017/06/24 - 13:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2417MHZ by 802.11n20	



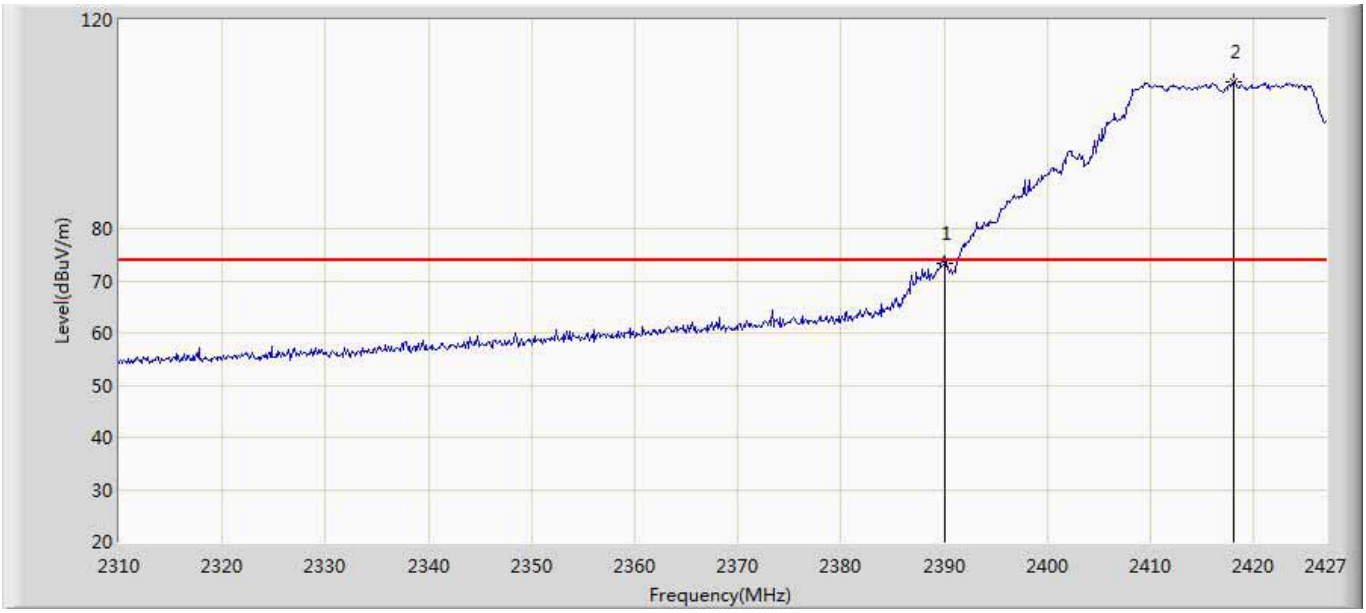
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	45.154	9.472	-8.846	54.000	35.682	AV
2	*	2418.342	95.860	60.092	41.860	54.000	35.768	AV

Site: AC5	Time: 2017/06/24 - 13:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2417MHZ by 802.11n20	



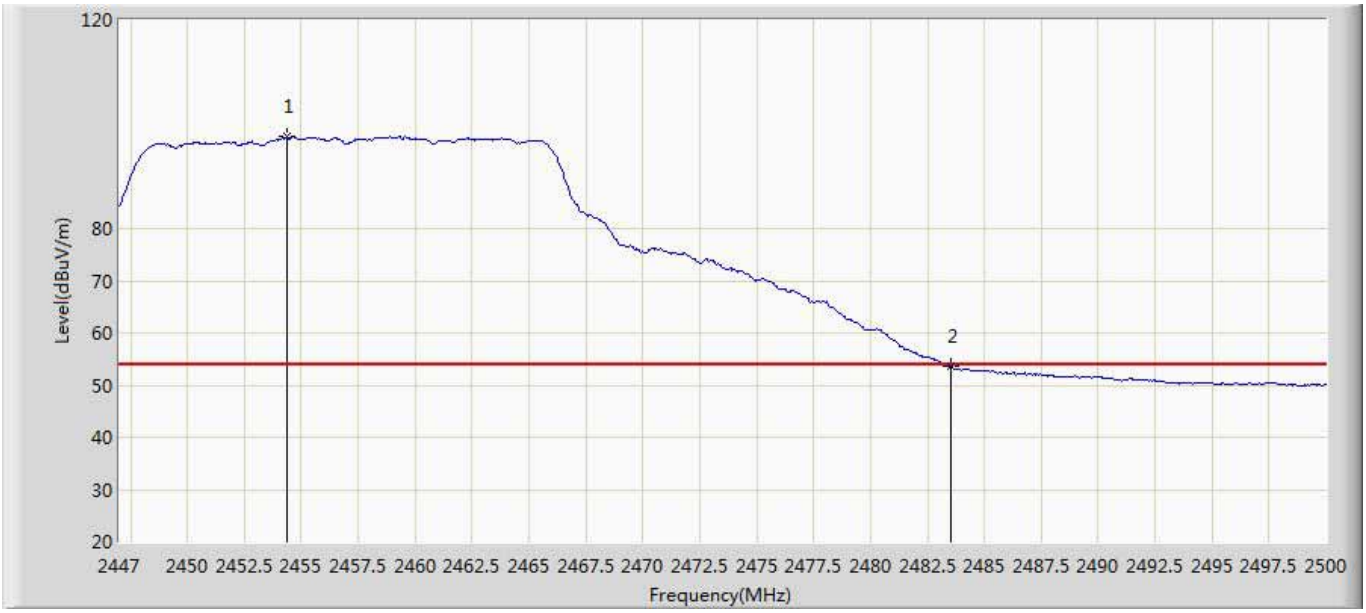
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	56.949	21.267	-17.051	74.000	35.682	PK
2	*	2418.693	102.674	66.905	28.674	74.000	35.770	PK

Site: AC5	Time: 2017/06/24 - 13:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2417MHZ by 802.11n20	



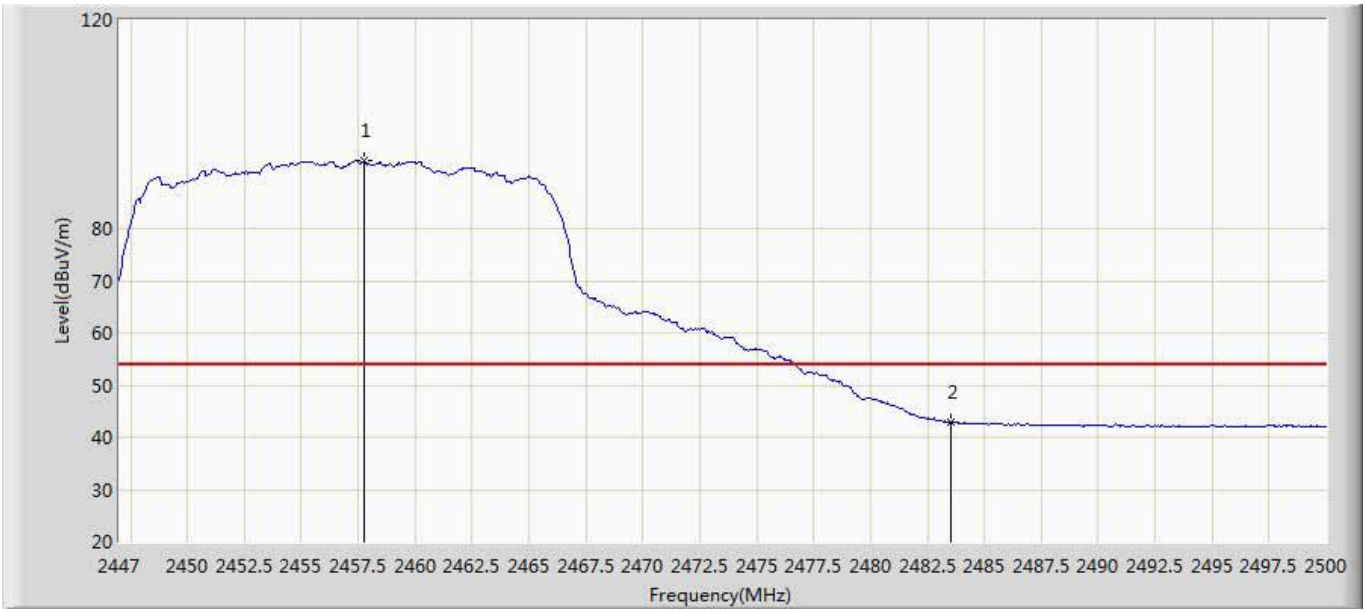
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	73.322	37.640	-0.678	74.000	35.682	PK
2	*	2417.991	108.064	72.297	34.064	74.000	35.767	PK

Site: AC5	Time: 2017/06/24 - 13:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2457MHZ by 802.11n20	



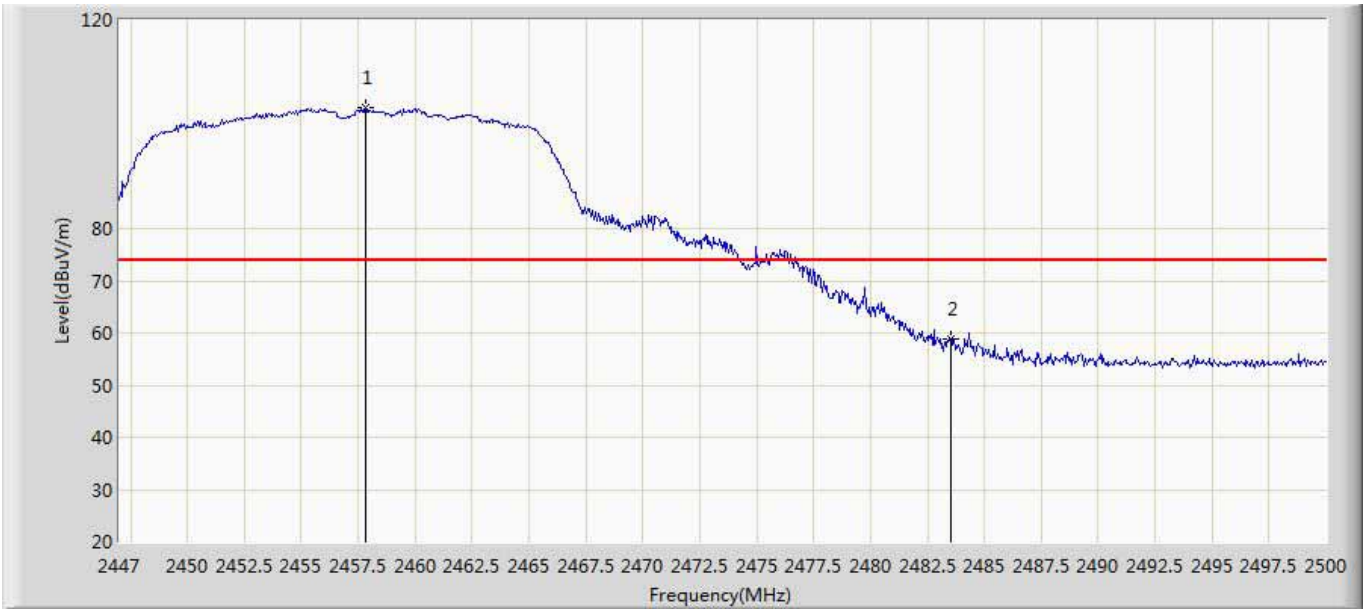
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2454.367	97.683	61.838	43.683	54.000	35.845	AV
2		2483.500	53.639	17.747	-0.361	54.000	35.891	AV

Site: AC5	Time: 2017/06/24 - 13:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2457MHZ by 802.11n20	



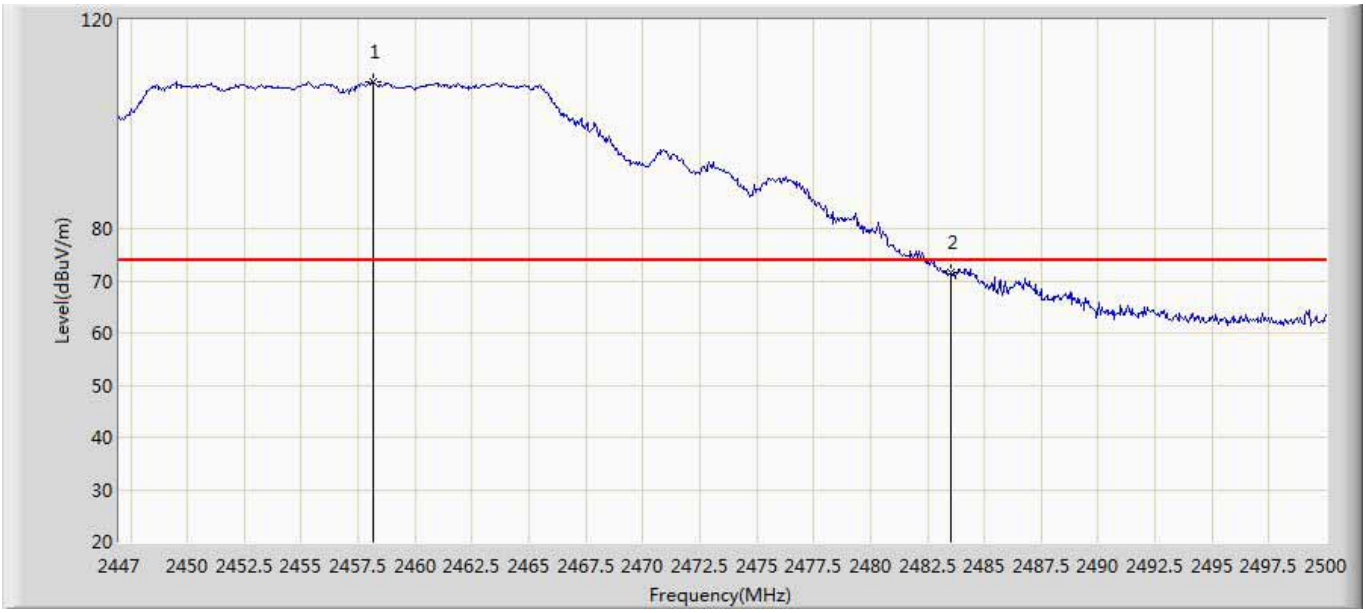
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2457.759	92.928	57.068	38.928	54.000	35.860	AV
2		2483.500	42.839	6.947	-11.161	54.000	35.891	AV

Site: AC5	Time: 2017/06/24 - 13:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2457MHZ by 802.11n20	



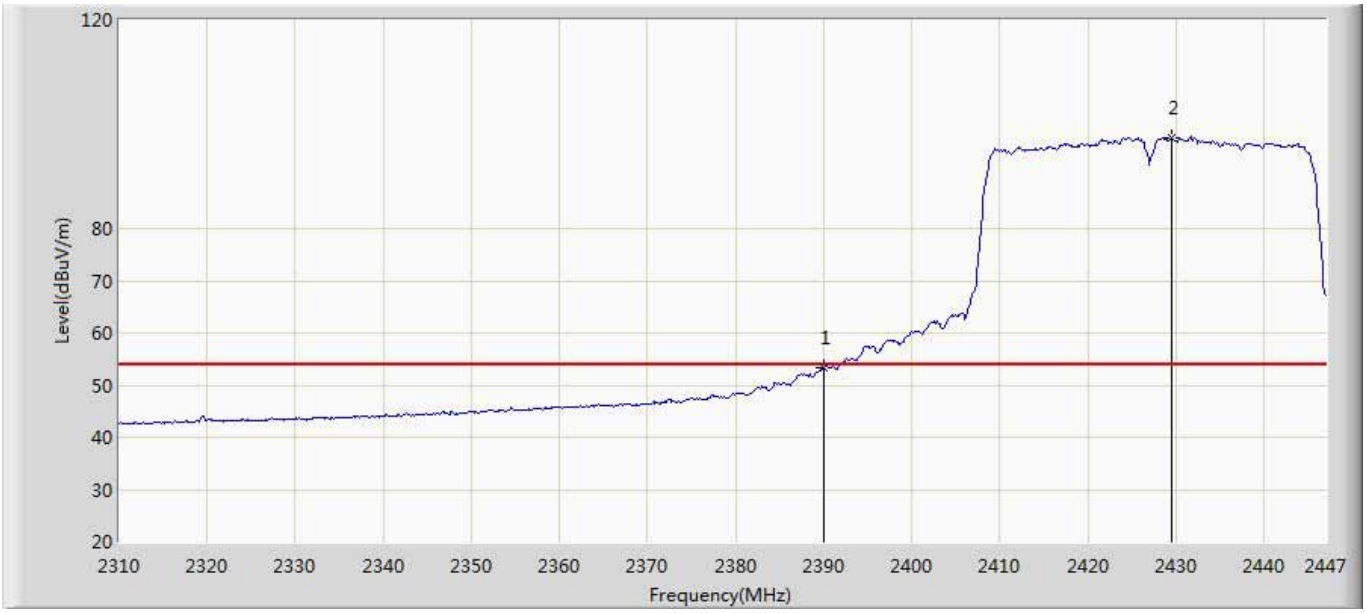
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2457.812	103.138	67.278	29.138	74.000	35.860	PK
2		2483.500	58.752	22.860	-15.248	74.000	35.891	PK

Site: AC5	Time: 2017/06/24 - 13:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2457MHZ by 802.11n20	



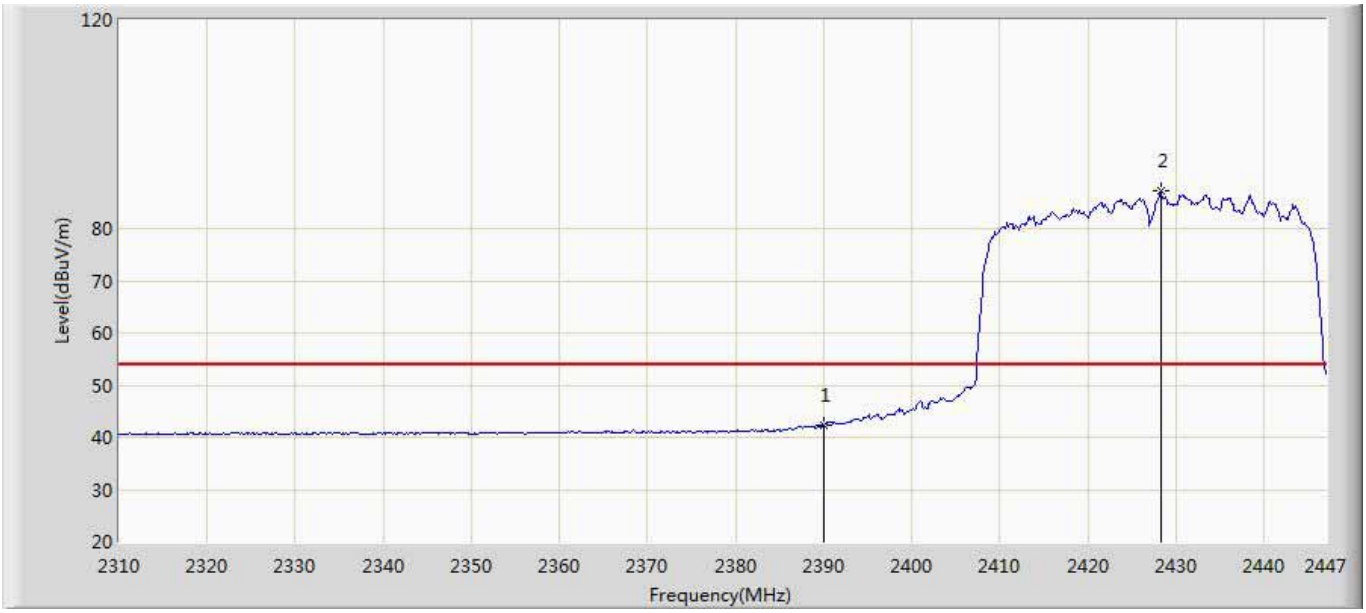
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2458.183	108.055	72.193	34.055	74.000	35.862	PK
2		2483.500	71.566	35.674	-2.434	74.000	35.891	PK

Site: AC5	Time: 2017/06/24 - 13:57
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2427MHZ by 802.11n40	



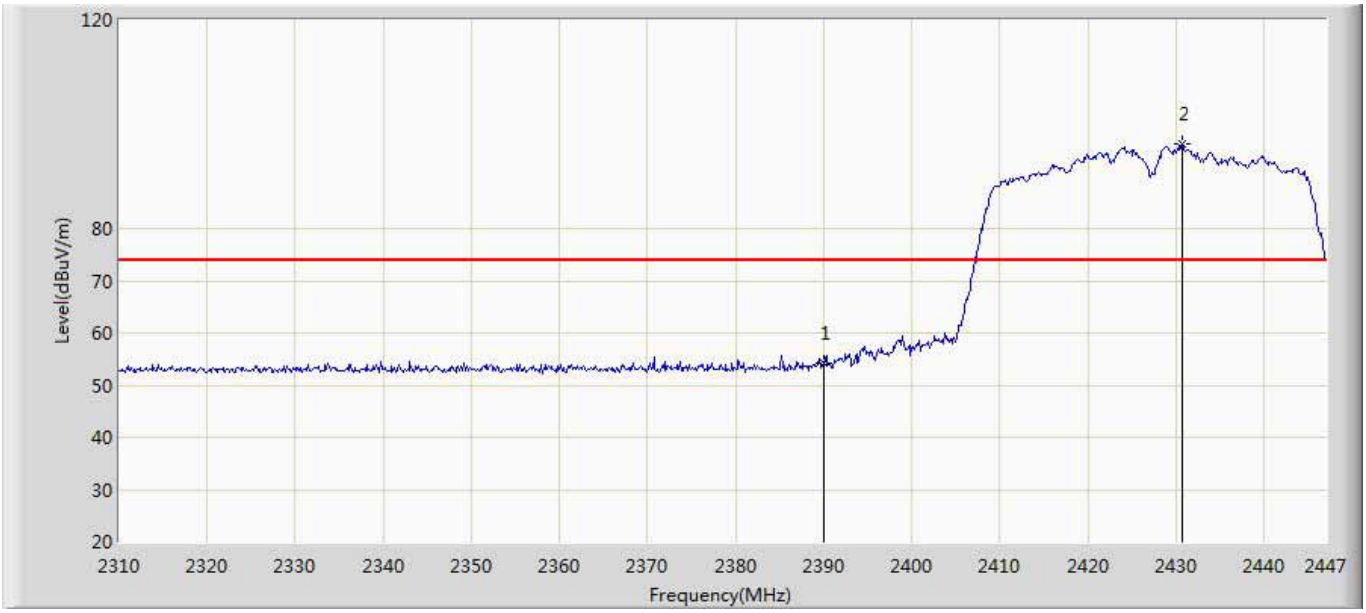
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.349	17.667	-0.651	54.000	35.682	AV
2	*	2429.464	97.418	61.610	43.418	54.000	35.808	AV

Site: AC5	Time: 2017/06/24 - 13:57
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2427MHZ by 802.11n40	



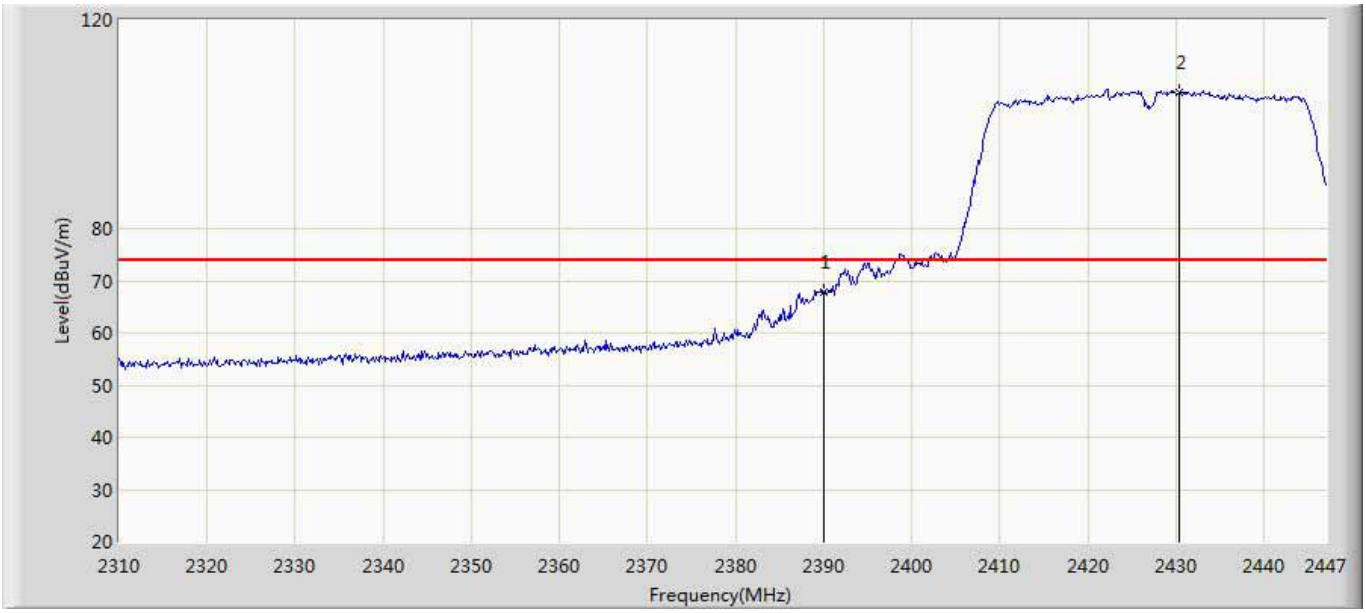
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	42.263	6.581	-11.737	54.000	35.682	AV
2	*	2428.231	87.262	51.454	33.262	54.000	35.808	AV

Site: AC5	Time: 2017/06/24 - 13:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2427MHZ by 802.11n40	



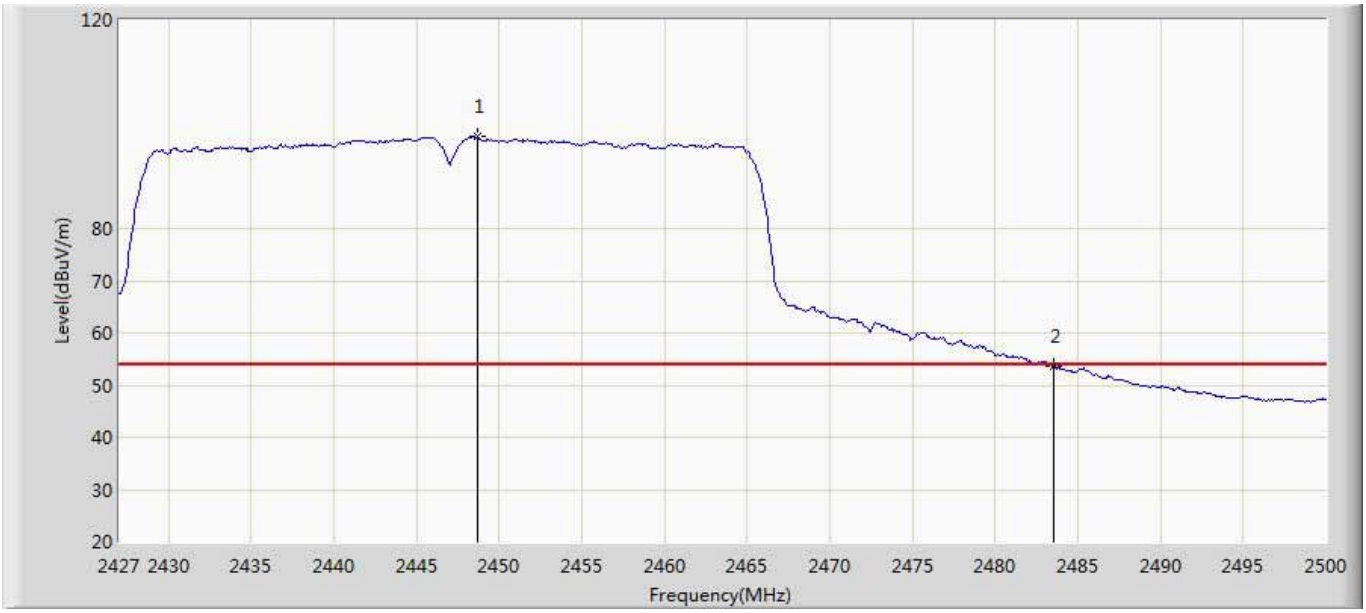
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	54.178	18.496	-19.822	74.000	35.682	PK
2	*	2430.697	96.203	60.395	22.203	74.000	35.808	PK

Site: AC5	Time: 2017/06/24 - 14:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2427MHZ by 802.11n40	



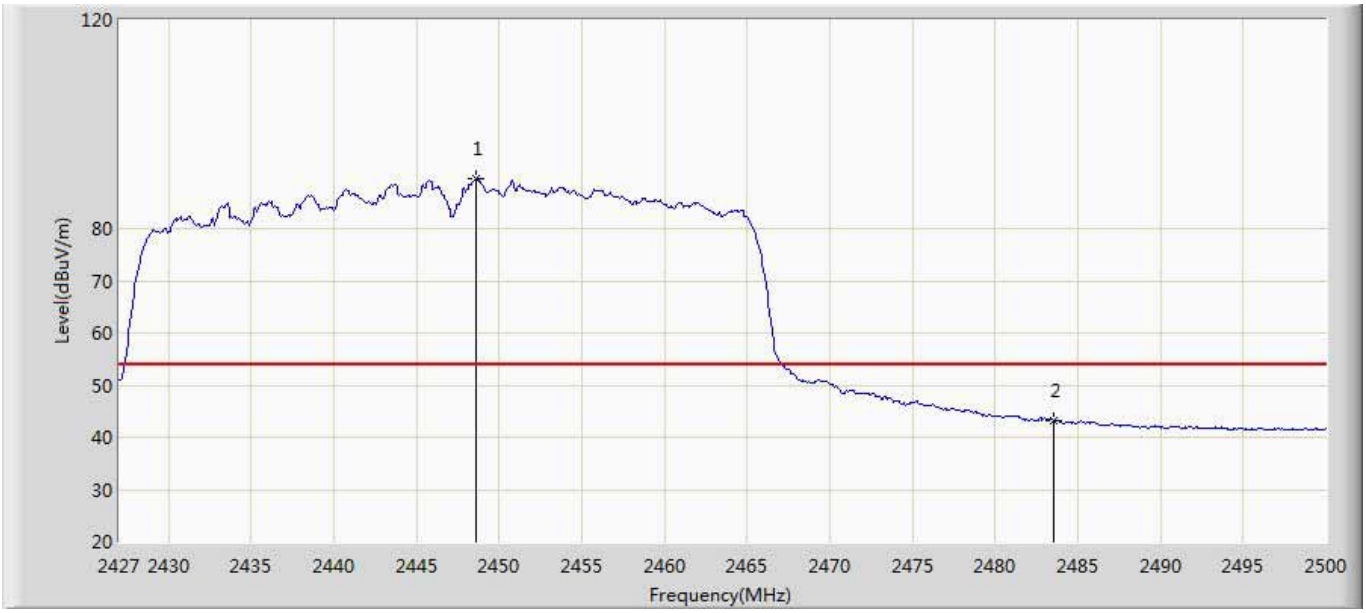
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	67.738	32.056	-6.262	74.000	35.682	PK
2	*	2430.423	106.201	70.393	32.201	74.000	35.808	PK

Site: AC5	Time: 2017/06/24 - 14:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2447MHZ by 802.11n40	



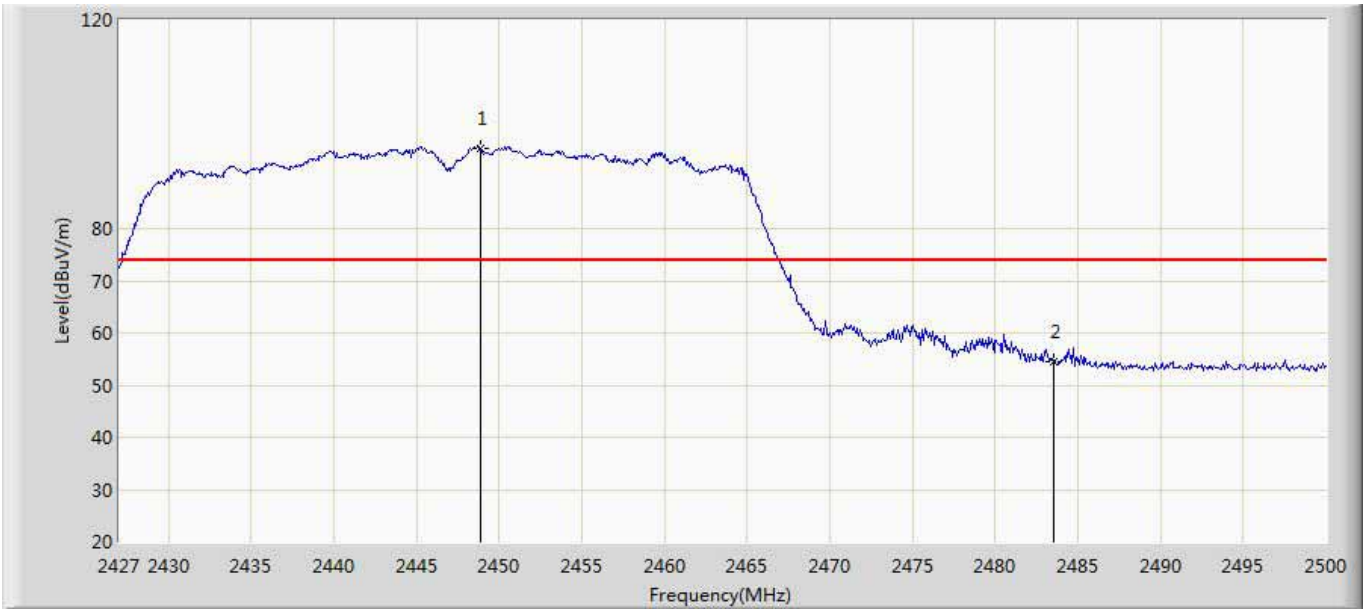
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2448.681	97.563	61.743	43.563	54.000	35.820	AV
2		2483.500	53.506	17.615	-0.494	54.000	35.891	AV

Site: AC5	Time: 2017/06/24 - 14:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2447MHZ by 802.11n40	



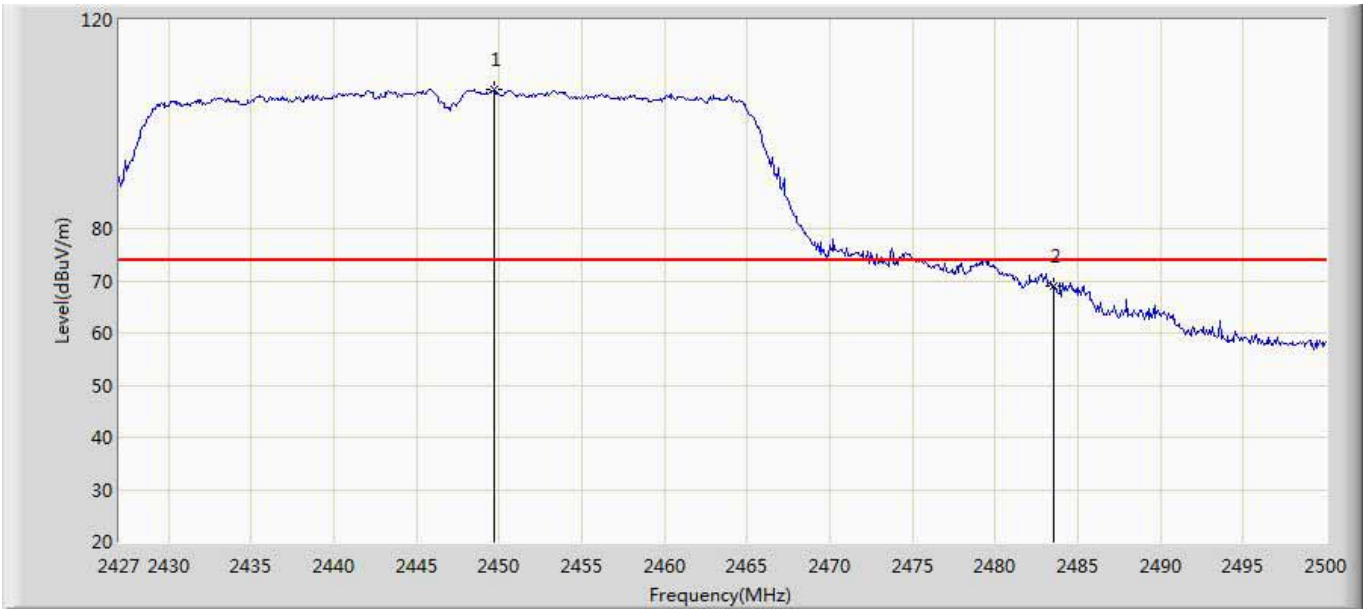
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2448.608	89.439	53.619	35.439	54.000	35.819	AV
2		2483.500	43.189	7.297	-10.811	54.000	35.891	AV

Site: AC5	Time: 2017/06/24 - 14:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2447MHZ by 802.11n40	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2448.827	95.336	59.515	21.336	74.000	35.821	PK
2		2483.500	54.559	18.667	-19.441	74.000	35.891	PK

Site: AC5	Time: 2017/06/24 - 14:12
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2447MHZ by 802.11n40	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2449.703	106.588	70.763	32.588	74.000	35.825	PK
2		2483.500	69.065	33.173	-4.935	74.000	35.891	PK

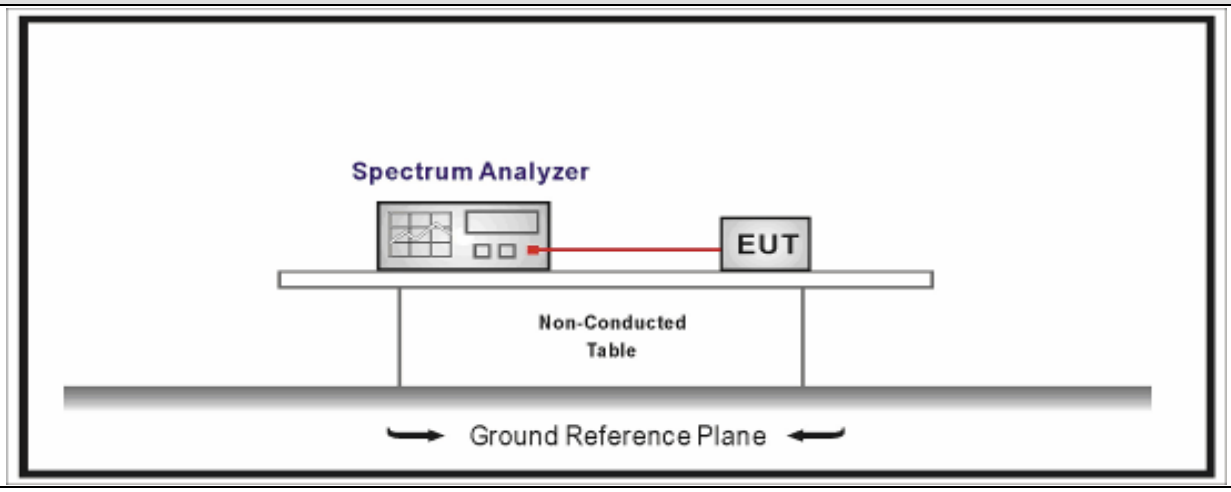
7. Occupied Bandwidth

7.1. Test Equipment

Occupied Bandwidth / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2017.02.04	2018.02.03
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2017.04.09	2018.04.08
MXA Signal Anlyzer	Keysight	N9020A	MY56060147	2017.04.09	2018.04.08
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2017.04.10	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

Occupied Bandwidth test setup:



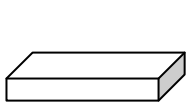
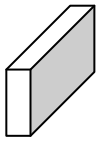
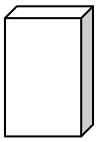
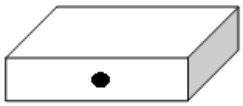
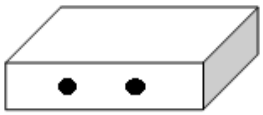
7.3. Limit

Occupied Bandwidth
Systems using digital modulation techniques operate in the2400-2483.5 MHz .The minimum 6 dB bandwidth shall be at least 500 kHz

7.4. Test Procedure

Test Method				
	Reference Rule		Chapter	Description
☒	ANSI C63.10		11.8	DTS bandwidth
	☐	ANSI C63.10	11.8.1	Option 1
	☒	ANSI C63.10	11.8.2	Option 2

7.5. EUT test definition

<table>
<tr><td>Item</td><td colspan="4">Occupied Bandwidth</td></tr>
<tr><td rowspan="2">Device Category</td><td>☐</td><td colspan="3">Fixed position use</td></tr>
<tr><td>☒</td><td colspan="3">Mobile position use</td></tr>
<tr><td>Test mode</td><td colspan="4">Mode 1~4</td></tr>
<tr><td rowspan="13">Test method</td><td>☐</td><td colspan="3">Radiated</td></tr>
<tr><td rowspan="3"></td><td>X Axis</td><td>Y Axis</td><td>Z Axis</td></tr>
<tr><td>  </td><td>  </td><td>  </td></tr>
<tr><td>Worst Axis ☐</td><td>Worst Axis ☐</td><td>Worst Axis ☐</td></tr>
<tr><td>☒</td><td colspan="3">Conducted</td></tr>
<tr><td>☐</td><td colspan="3">Chain 1</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☒</td><td>Chain 1</td><td colspan="2">Chain 2</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☐</td><td>Chain 1</td><td>Chain 2</td><td>Chain 3</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
</table>

7.6. Test Result

Product Name	:	AC1200 Wireless Dual Band Router	Power	:	AC 120V/60Hz
Test Mode	:	Mode1~4	Test Site	:	TR8
Mode No.	:	Archer C50	Test Date	:	2016.12.10

Mode	CH.	Test Freq. (MHz)	6dB Occupied Bandwidth (MHz)	Limit (kHz)	Result
1	01	2412	10.05	>500	Pass
1	06	2437	10.06	>500	Pass
1	11	2462	10.00	>500	Pass
2	01	2412	15.10	>500	Pass
2	06	2437	15.10	>500	Pass
2	11	2462	15.10	>500	Pass
3	01	2412	15.10	>500	Pass
3	06	2437	15.11	>500	Pass
3	11	2462	15.07	>500	Pass
4	03	2422	35.07	>500	Pass
4	06	2437	35.03	>500	Pass
4	09	2452	35.03	>500	Pass

Note1 : The worst case of Occupied Bandwidth as below:

2: All transmit chains are tested, and only the worst chain was showed on the report.

Mode 1 CH01 (2462MHz)

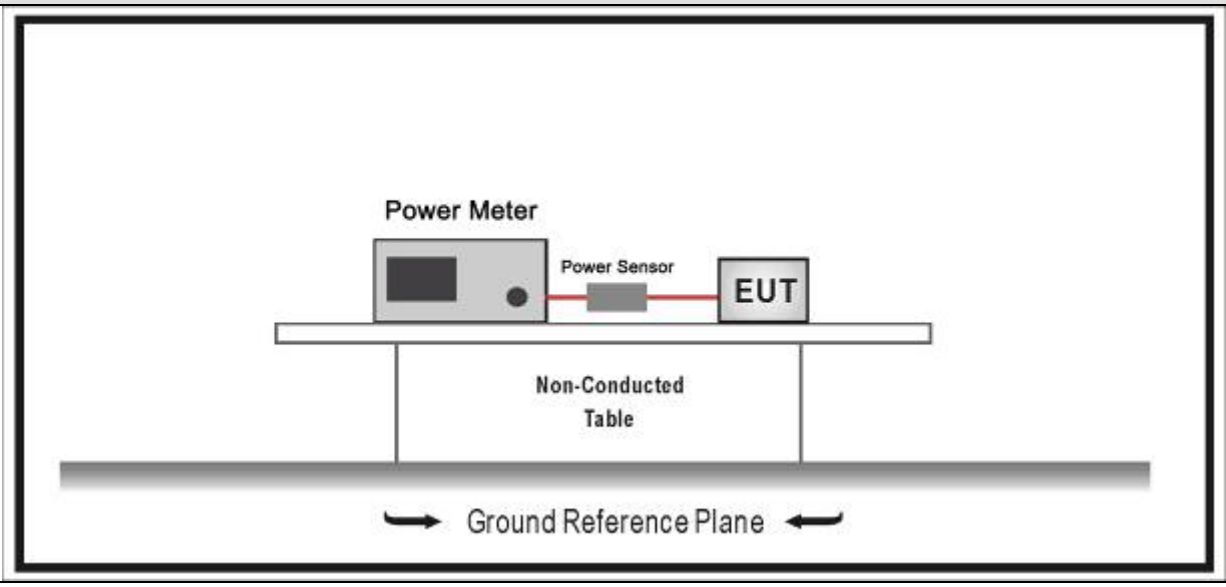
8. Fundamental emission output power

8.1. Test Equipment

Fundamental emission output power/ TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2017.01.03	2018.01.02
Spectrum Analyzer	Agilent	N9010A	MY48030494	2017.02.04	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	2017.04.10	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

Fundamental emission output power test setup



8.3. Limit

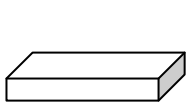
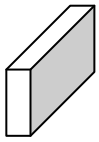
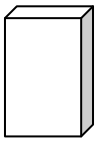
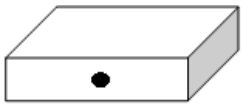
Fundamental emission output power Limit			
☒	G_{TX} ＜6dBi		P_{out}≤30dBm
☐	G_{TX} ＞6dBi		
	☐	Non-Fix point-point	P_{out}≤30-(G_{TX} -6)
	☐	Fix point-point	P_{out}≤30-[(G_{TX}-6)]/3
	☐	emits multiple directional beams but does not do emit multiple directional beams simultaneously	P_{out}≤30-[(G_{TX}-6)]/3
	☐	operates simultaneously on multiple directional beams using the same or different frequency channels	P_{out}≤30-[(G_{TX}-6)]/3+8dB
	☐	single directional beam	P_{out}≤30-[(G_{TX}-6)]/3
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				11.9	Fundamental emission output power
	☐	ANSI C63.10			11.9.1	Maximum peak conducted output power
		☐	ANSI C63.10		11.9.1.1	RBW ≥ DTS bandwidth
		☐	ANSI C63.10		11.9.1.2	Integrated band power method
		☐	ANSI C63.10		11.9.1.3	PKPM1 Peak power meter method
	☒	ANSI C63.10			11.9.2	Maximum conducted (average) output power
		☐	ANSI C63.10		11.9.2.2	Measurement using a spectrum analyzer (SA)
			☐	ANSI C63.10	11.9.2.2.2	Method AVGSA-1(Duty cycle≥98%)
			☐	ANSI C63.10	11.9.2.2.3	Method AVGSA-1A(Duty cycle≥98%)
			☐	ANSI C63.10	11.9.2.2.4	Method AVGSA-2(Duty cycle≤98%)
			☐	ANSI C63.10	11.9.2.2.5	Method AVGSA-2A(Duty cycle≤98%)
			☐	ANSI C63.10	11.9.2.2.4	Method AVGSA-3
			☐	ANSI C63.10	11.9.2.2.5	Method AVGSA-3A
		☒	ANSI C63.10		11.9.2.3	Measurement using a power meter (PM)
			☐	ANSI C63.10	11.9.2.3.1	Method AVGPM
			☒	ANSI C63.10	11.9.2.3.2	Method AVGPM-G

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
	☐	KDB 662911	F2)c) (i)	Cross-polarized antennas with NANT = 2.
	☐	KDB 662911	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 definition

<table>
<tr><td>Item</td><td colspan="4">Fundamental emission output power</td></tr>
<tr><td rowspan="2">Device Category</td><td>☐</td><td colspan="3">Fixed position use</td></tr>
<tr><td>☒</td><td colspan="3">Mobile position use</td></tr>
<tr><td>Test mode</td><td colspan="4">Mode 1~4</td></tr>
<tr><td rowspan="11">Test method</td><td>☐</td><td colspan="3">Radiated</td></tr>
<tr><td rowspan="3"></td><td>X Axis</td><td>Y Axis</td><td>Z Axis</td></tr>
<tr><td>  </td><td>  </td><td>  </td></tr>
<tr><td>Worst Axis ☐</td><td>Worst Axis ☐</td><td>Worst Axis ☐</td></tr>
<tr><td>☒</td><td colspan="3">Conducted</td></tr>
<tr><td>☐</td><td colspan="3">Chain 1</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
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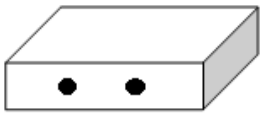
<tr><td></td><td colspan="3">  </td></tr>
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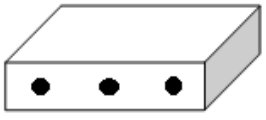
<tr><td></td><td colspan="3">  </td></tr>
</table>

8.6. Test Result

Product Name	:	AC1200 Wireless Dual Band Router	Power	:	AC 120V/60Hz
Test Mode	:	Mode1~4	Test Site	:	TR8
Mode No.	:	Archer C50	Test Date	:	2017.04.10

Mode	Channel	Test Frequency (MHz)	Average Power Output (dBm)		Total Average (dBm)	Directional Antenna Gain (dBi)	Limit (dBm)	Result
			Ant0	Ant1				
1	01	2412	20.06	19.98	23.03	1.8	30	Pass
1	02	2417	20.51	20.47	23.50	1.8	30	Pass
1	06	2437	22.32	22.24	25.29	1.8	30	Pass
1	10	2457	19.12	19.04	22.09	1.8	30	Pass
1	11	2462	18.56	18.52	21.55	1.8	30	Pass
2	01	2412	14.91	14.97	17.95	1.8	30	Pass
2	02	2417	18.67	18.59	21.64	1.8	30	Pass
2	06	2437	21.69	21.45	24.58	1.8	30	Pass
2	10	2457	18.05	17.93	21.00	1.8	30	Pass
2	11	2462	13.61	13.56	16.60	1.8	30	Pass
3	01	2412	13.88	13.57	16.74	1.8	30	Pass
3	02	2417	18.62	18.55	21.60	1.8	30	Pass
3	06	2437	22.16	22.03	25.11	1.8	30	Pass
3	10	2457	18.1	17.94	21.03	1.8	30	Pass
3	11	2462	13.64	13.37	16.52	1.8	30	Pass
4	03	2422	11.17	10.86	14.03	1.8	30	Pass

4	04	2427	12.61	12.33	15.48	1.8	30	Pass
4	06	2437	15.74	15.51	18.64	1.8	30	Pass
4	08	2447	12.82	12.57	15.71	1.8	30	Pass
4	09	2452	11.35	11.05	14.21	1.8	30	Pass

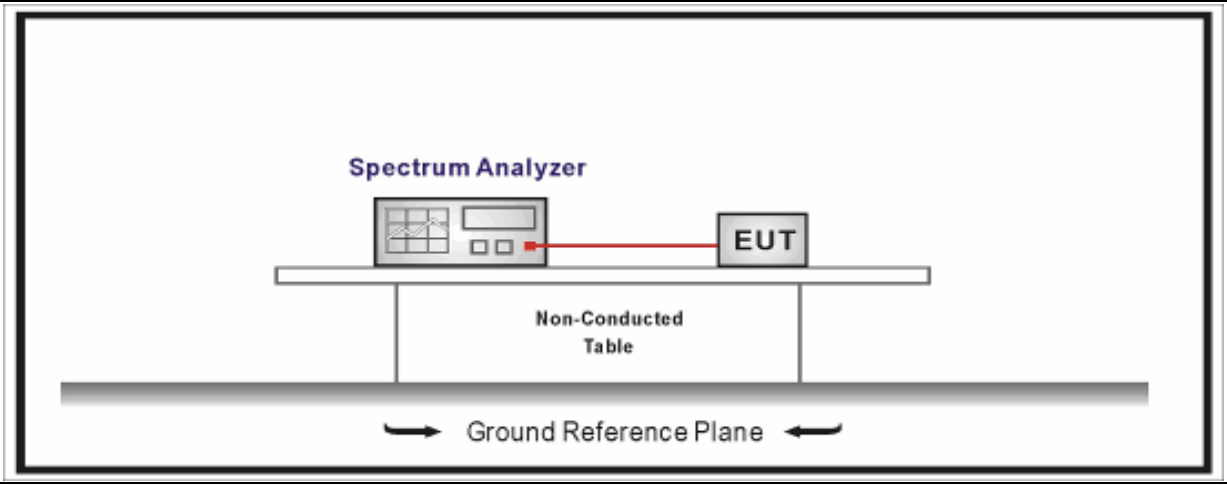
9. Power Spectral Density

9.1. Test Equipment

Power Spectral Density / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2017.02.04	2018.02.03
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2017.04.09	2018.04.08
MXA Signal Anlyzer	Keysight	N9020A	MY56060147	2017.04.09	2018.04.08
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2017.04.10	2018.04.09
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

9.2. Test Setup

Power Spectral Density test setup



9.3. Limit

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

9.4. Test Procedure

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

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
	☐	KDB 662911	F2)c) (i)	Cross-polarized antennas with NANT = 2.
	☐	KDB 662911	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
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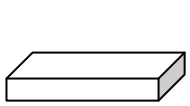
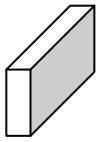
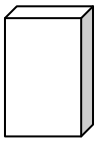
9.5. EUT test definition

<table>
<tr><td>Item</td><td colspan="4">Power Spectral Density Test Method</td></tr>
<tr><td rowspan="2">Device Category</td><td>☐</td><td colspan="3">Fixed position use</td></tr>
<tr><td>☒</td><td colspan="3">Mobile position use</td></tr>
<tr><td>Test mode</td><td colspan="4">Mode 1~4</td></tr>
<tr><td rowspan="13">Test method</td><td>☐</td><td colspan="3">Radiated</td></tr>
<tr><td rowspan="3"></td><td>X Axis</td><td>Y Axis</td><td>Z Axis</td></tr>
<tr><td>  </td><td>  </td><td>  </td></tr>
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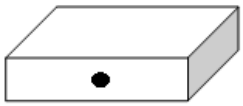
<tr><td></td><td colspan="3">  </td></tr>
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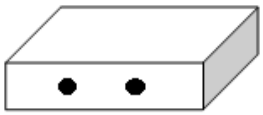
<tr><td></td><td colspan="3">  </td></tr>
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<tr><td></td><td colspan="3">  </td></tr>
</table>

9.6. Test Result

Product Name	:	AC1200 Wireless Dual Band Router	Power	:	AC 120V/60Hz
Test Mode	:	Mode1~4	Test Site	:	TR8
Mode No.	:	Archer C50	Test Date	:	2016.12.10

Mode	Channel	Test Frequency (MHz)	Measurement PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	Directional Gain (dBi)	Limit (dBm/3kHz)	Result
			Ant0	Ant1				
1	01	2412	-6.728	-5.476	-3.05	4.8	8.0	Pass
1	06	2437	-4.785	-3.436	-1.05	4.8	8.0	Pass
1	11	2462	-8.040	-7.697	-4.85	4.8	8.0	Pass
2	01	2412	-12.435	-11.597	-8.99	4.8	8.0	Pass
2	06	2437	-6.440	-6.631	-3.52	4.8	8.0	Pass
2	11	2462	-13.469	-12.172	-9.76	4.8	8.0	Pass
3	01	2412	-12.786	-12.194	-9.47	4.8	8.0	Pass
3	06	2437	-3.601	-5.323	-1.37	4.8	8.0	Pass
3	11	2462	-11.666	-12.964	-9.26	4.8	8.0	Pass
4	03	2422	-17.820	-17.032	-14.40	4.8	8.0	Pass
4	06	2437	-12.775	-13.187	-9.97	4.8	8.0	Pass
4	09	2452	-17.008	-17.692	-14.33	4.8	8.0	Pass

Mode 1 CH06(2437MHz) Ant0

Mode 1 CH06(2437MHz) Ant1

10. Antenna Requirement

10.1. 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.

10.2. 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