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TESTING
CNAS L5313



DEKRA

Test Report

FCC Part15 Subpart C

Product Name : AC1200 Wireless Dual Band Gigabit Router

Model No. : Archer C1200

FCC ID : TE7C1200

Applicant : TP-LINK TECHNOLOGIES CO., LTD.

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

Date of Receipt : Oct. 17, 2016

Test Date : Oct. 17, 2016~ Feb. 06, 2017

Issued Date : Feb. 23, 2017

Report No. : 16A2038R-RF- US-P06V02

Report Version : V1.2

The test results relate only to the samples tested.

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

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Test Report Certification

Issued Date : Feb. 23, 2017
Report No. : 16A2038R-RF-US-P06V02




Product Name : AC1200 Wireless Dual Band Gigabit Router
 Applicant : TP-LINK TECHNOLOGIES CO., LTD.
 Address : Building 24(floors1,3,4,5) and 28(floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China


Manufacturer : TP-LINK TECHNOLOGIES CO., LTD.
 Address : Building 24(floors1,3,4,5) and 28(floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China

Model No. : Archer C1200
 FCC ID : TE7C1200
 EUT Voltage : DC 12V/1.5A
 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 D01v03r05
 KDB 662911 D01 Multiple Transmitter Output v02r01


Test Result : Complied
 Performed Location : DEKRA Testing and Certification (Suzhou) Co., Ltd.
 Corporation - Suzhou EMC Laboratory
 No.99 Hongye Rd., Suzhou Industrial Park, Suzhou, 215006, Jiangsu, China
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 FCC Registration Number: 800392; IC Lab Code: 4075B

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TABLE OF CONTENTS

Description	Page
1. General Information	6
1.1. EUT Description	6
1.2. Channel List:.....	6
1.3. Test Channel:.....	7
1.4. Antenna information	7
1.5. Mode of Operation.....	8
1.6. Tested System Details	8
1.7. Configuration of Tested System.....	9
2. Technical Test	10
2.1. Summary of Test Result.....	10
2.2. Power setting parameter.....	11
2.3. Power vs Data Rate.....	12
2.4. Test Environment.....	13
2.5. Measurement Uncertainty.....	13
3. AC Power Line Conducted Emission	14
3.1. Test Equipment.....	14
3.2. Test Setup.....	14
3.3. Limit.....	15
3.4. Test Procedure	15
3.5. Test Result.....	16
4. Emissions in restricted frequency bands	18
4.1. Test Equipment.....	18
4.2. Test Setup.....	19
4.3. Limit.....	20
4.4. Test Procedure	22
4.5. EUT test Axis definition.....	23
4.6. Test Result.....	24
5. Emissions in non-restricted frequency bands	31
5.1. Test Equipment.....	31
5.2. Test Setup.....	31
5.3. Limit.....	32
5.4. Test Procedure	33
5.5. EUT test Axis definition.....	34
5.6. Test Result.....	35
6. Radiated Emission Band Edge	37
6.1. Test Equipment.....	37
6.2. Test Setup.....	38

6.3.	Limit.....	38
6.4.	Test Procedure	39
6.5.	EUT test definition	40
6.6.	Duty Cycle	41
6.7.	Test Result.....	42
7.	Occupied Bandwidth.....	106
7.1.	Test Equipment.....	106
7.2.	Test Setup.....	106
7.3.	Limit.....	107
7.4.	Test Procedure	107
7.5.	EUT test definition	108
7.6.	Test Result.....	109
8.	Fundamental emission output power	110
8.1.	Test Equipment.....	110
8.2.	Test Setup.....	110
8.3.	Limit.....	111
8.4.	Test Procedure	112
8.5.	EUT test definition	114
8.6.	Test Result.....	115
9.	Power Spectral Density	117
9.1.	Test Equipment.....	117
9.2.	Test Setup.....	117
9.3.	Limit.....	117
9.4.	Test Procedure	118
9.5.	EUT test definition	120
9.6.	Test Result.....	121
10.	Antenna Requirement.....	122
10.1.	Limit.....	122
10.2.	Antenna Connector Construction.....	122

History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
16A2038R-RF-US-P06V02	V1.0	Initial Issued Report	Feb. 10, 2017
16A2038R-RF-US-P06V02	V1.1	(1) Page 28, add 2.4G and 5G spurious emission simultaneously. (2) Page 7, add 802.11b mode transmit antenna description.	Feb. 22, 2017
16A2038R-RF-US-P06V02	V1.2	Modified P28 data	Feb. 23, 2017

1. General Information

1.1. EUT Description

Product Name	AC1200 Wireless Dual Band Gigabit Router
Brand Name	TP-LINK
Model No.	Archer C1200
EUT Voltage	DC 12V/1.5A
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	06	2437MHz	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	06	2437 MHz	09	2452 MHz	N/A	N/A

1.4. Antenna information

Antenna manufacturer	N/A		
Antenna Delivery	<input checked="" type="checkbox"/> 1*TX+1*RX	<input checked="" type="checkbox"/> 2*TX+2*RX	<input type="checkbox"/> 3*TX+3*RX
Antenna technology	<input checked="" type="checkbox"/> SISO for 802.11b		
	<input checked="" type="checkbox"/> MIMO	<input type="checkbox"/> Basic	
		<input type="checkbox"/> Sectorized antenna systems	
		<input type="checkbox"/> Cross-polarized antennas	
		<input type="checkbox"/> Unequal antenna gains, with equal transmit powers	
		<input type="checkbox"/> Spatial Multiplexing	
		<input checked="" type="checkbox"/> CDD	
	<input type="checkbox"/> Beam-forming		
Antenna Type	<input checked="" type="checkbox"/> External	<input checked="" type="checkbox"/> Dipole	
	<input type="checkbox"/> Internal	<input type="checkbox"/> PIFA	
		<input type="checkbox"/> PCB	
		<input type="checkbox"/> Ceramic Chip Antenna	
		<input type="checkbox"/> Metal plate type F antenna	
		<input type="checkbox"/> Cross-polarize Antenna	
Antenna Gain #0	1.95dBi		
Antenna Gain #1	1.96dBi		

Note: The 802.11b can only transmit at Ant 0.

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)

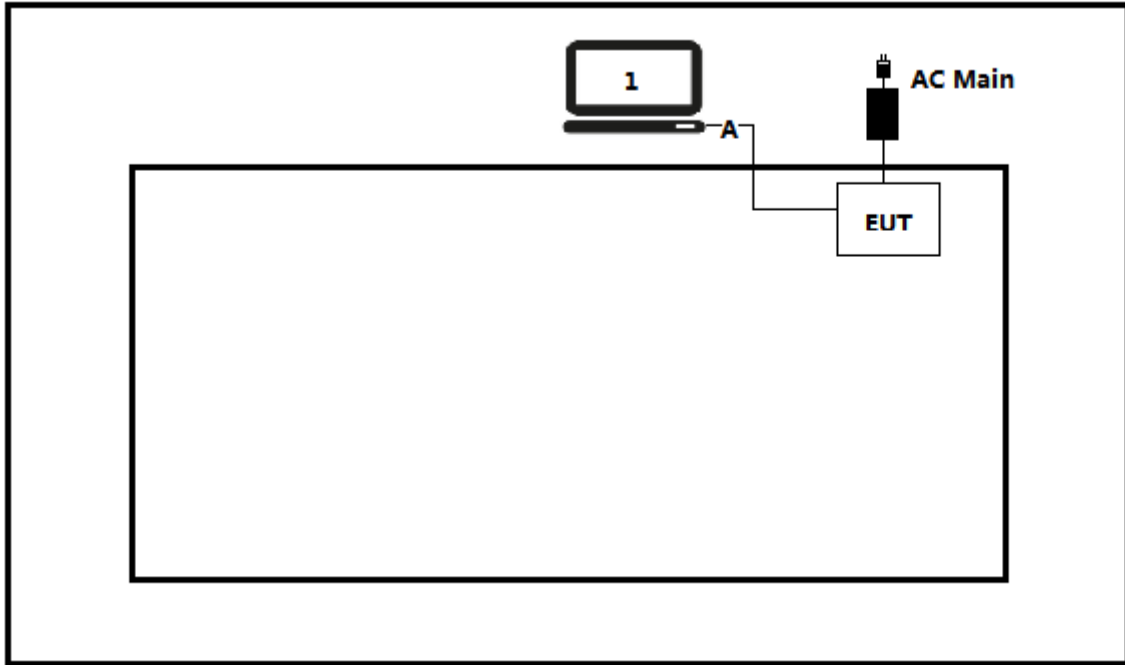
1.6. Tested System Details

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

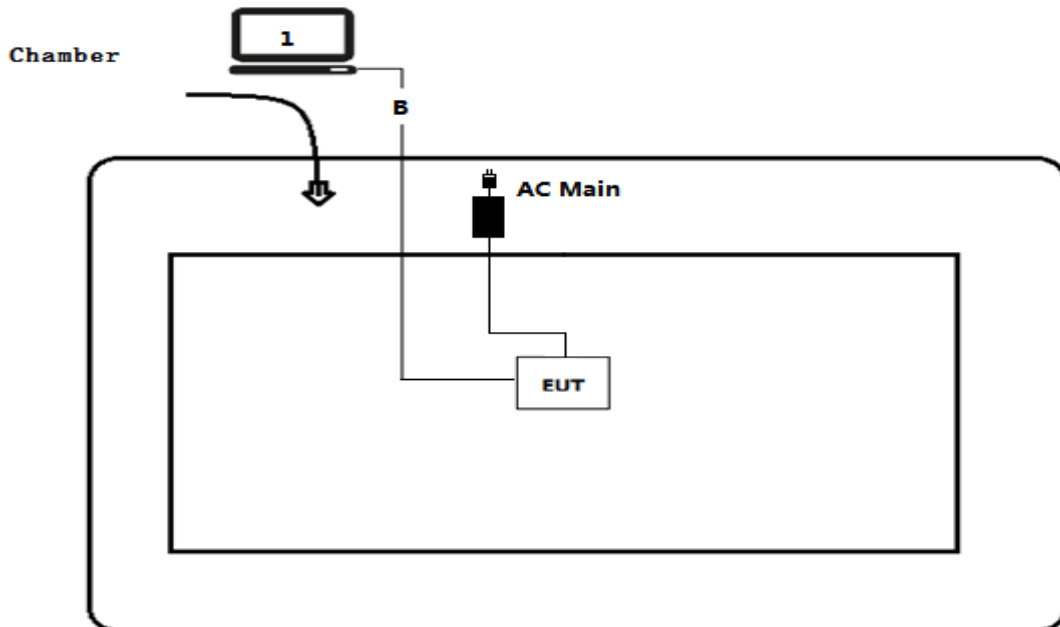
No.	Product	Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook	Lenovo	Think pad x220	SUA0600195	Non-shielded
A	LAN cable	N/A	N/A	N/A	Non-shielded, 1.5m
B	LAN cable	N/A	N/A	N/A	Non-shielded, 10m

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

For FCC Rule:

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 4	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

Test Software	Mtool			
Modulation Mode	Test Frequency	Ant 0	Ant 1	Ant 0+1
802.11b	2412	100	-	-
	2417	120	-	-
	2437	120	-	-
	2457	102	-	-
	2462	94	-	-
802.11g	2412	-	-	80
	2417	-	-	97
	2437	-	-	110
	2457	-	-	91
	2462	-	-	76
802.11n(20MHz)	2412	-	-	75
	2417	-	-	95
	2437	-	-	105
	2457	-	-	88
	2462	-	-	65
802.11n(40MHz)	2422	-	-	57
	2427	-	-	62
	2437	-	-	80
	2447	-	-	58
	2452	-	-	50

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	28.9	54.0	60.0
10	2	---	---	---	39.0	43.3	81.0	90.0
11	2	---	---	---	52.0	57.8	108.0	120.0
12	2	---	---	---	78.0	86.7	162.0	180.0
13	2	---	---	---	104.0	115.6	216.0	240.0
14	2	---	---	---	117.0	130.0	243.0	270.0
15	2	---	---	---	130.0	144.0	270.0	300.0

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

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

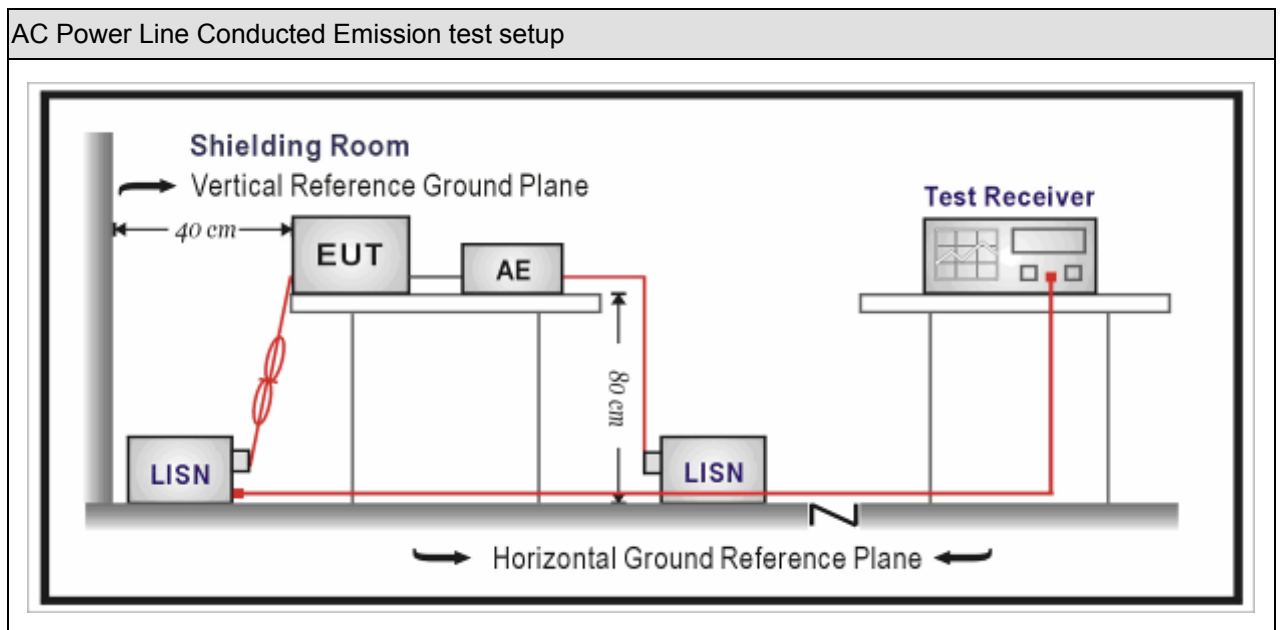
3. AC Power Line Conducted Emission

3.1. Test Equipment

AC Power Line Conducted Emission / TR-1					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100906	2016.03.05	2017.03.04
Two-Line V-Network	R&S	ENV 216	101189	2016.07.16	2017.07.15
Two-Line V-Network	R&S	ENV 216	101044	2016.09.16	2017.09.15
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	N/A	N/A
50ohm Termination	SHX	TF2	07081402	2016.09.16	2017.09.15
Temperature/Humidity Meter	Zhichen	ZC1-2	TR1-TH	2017.01.04	2018.01.03

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

3.2. Test Setup



3.3. Limit

Frequency 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.

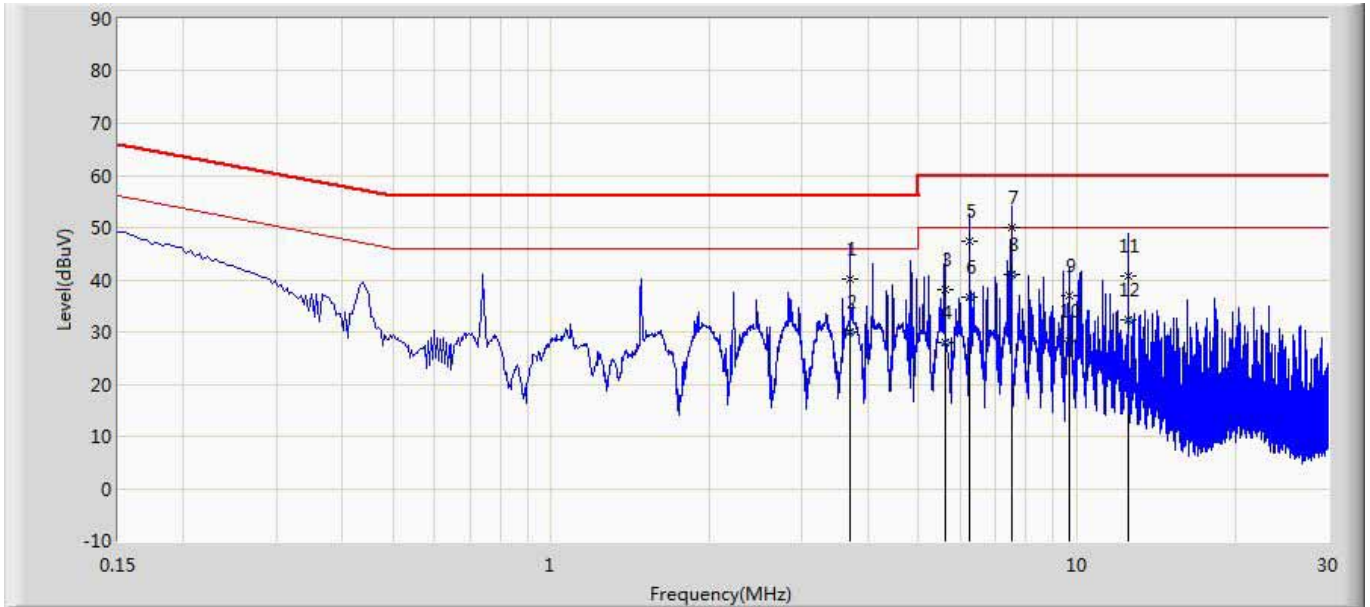
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

3.4. Test Procedure

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

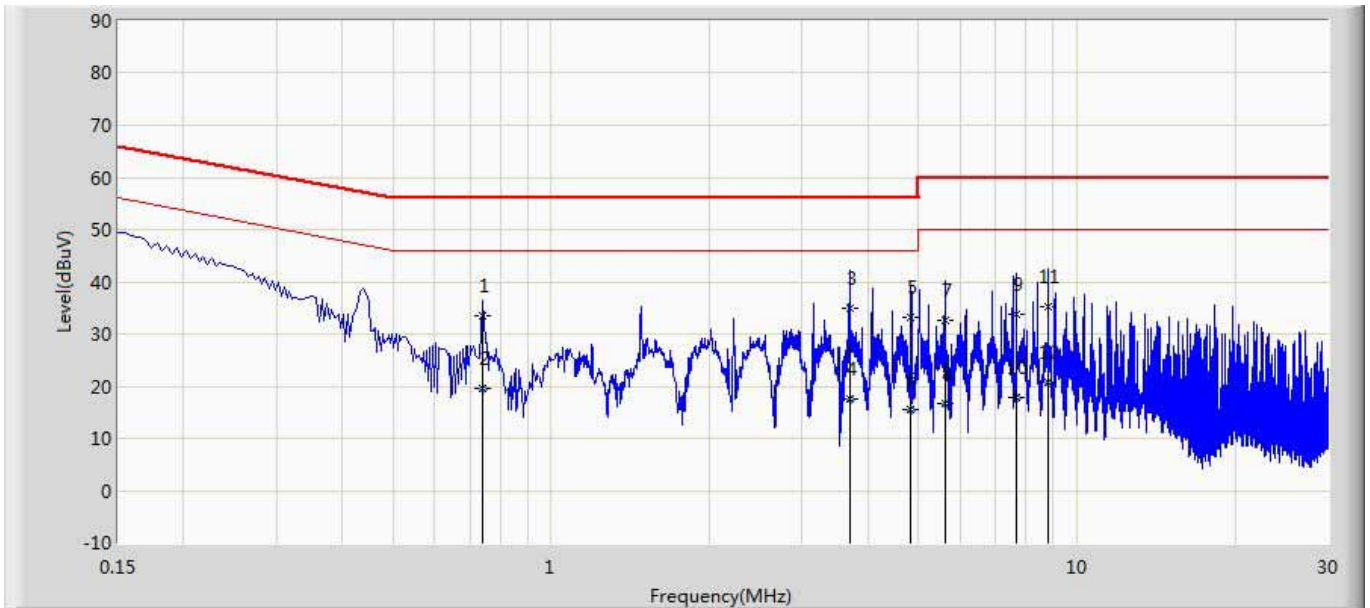
3.5. Test Result

Site: TR1	Time: 2016/11/28
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101044(0.009-30MHz)	Polarity: Line
EUT: AC1200 Wireless Dual Bang Gigabit Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at channel 2437MHz 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		3.698	40.279	30.540	-15.721	56.000	9.616	0.123	0.000	QP
2		3.698	30.106	20.367	-15.894	46.000	9.616	0.123	0.000	AV
3		5.598	38.168	28.390	-21.832	60.000	9.626	0.152	0.000	QP
4		5.598	27.896	18.118	-22.104	50.000	9.626	0.152	0.000	AV
5		6.250	47.332	37.541	-12.668	60.000	9.632	0.159	0.000	QP
6		6.250	36.793	27.002	-13.207	50.000	9.632	0.159	0.000	AV
7		7.498	49.973	40.158	-10.027	60.000	9.640	0.175	0.000	QP
8	*	7.498	40.894	31.078	-9.106	50.000	9.640	0.175	0.000	AV
9		9.674	36.964	27.121	-23.036	60.000	9.640	0.203	0.000	QP
10		9.674	28.392	18.549	-21.608	50.000	9.640	0.203	0.000	AV
11		12.502	40.602	30.725	-19.398	60.000	9.645	0.232	0.000	QP
12		12.502	32.449	22.572	-17.551	50.000	9.645	0.232	0.000	AV

Site: TR1	Time: 2016/11/28
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101044(0.009-30MHz)	Polarity: Neutral
EUT: AC1200 Wireless Dual Bang Gigabit Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at channel 2437MHz 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		0.742	33.510	23.855	-22.490	56.000	9.606	0.050	0.000	QP
2		0.742	19.479	9.823	-26.521	46.000	9.606	0.050	0.000	AV
3	*	3.694	35.052	25.327	-20.948	56.000	9.601	0.124	0.000	QP
4		3.694	17.503	7.778	-28.497	46.000	9.601	0.124	0.000	AV
5		4.838	33.258	23.507	-22.742	56.000	9.609	0.142	0.000	QP
6		4.838	15.598	5.847	-30.402	46.000	9.609	0.142	0.000	AV
7		5.598	32.626	22.858	-27.374	60.000	9.616	0.152	0.000	QP
8		5.598	16.789	7.021	-33.211	50.000	9.616	0.152	0.000	AV
9		7.662	33.893	24.081	-26.107	60.000	9.632	0.180	0.000	QP
10		7.662	17.925	8.113	-32.075	50.000	9.632	0.180	0.000	AV
11		8.806	35.215	25.385	-24.785	60.000	9.636	0.194	0.000	QP
12		8.806	20.814	10.984	-29.186	50.000	9.636	0.194	0.000	AV

4. Emissions in restricted frequency bands

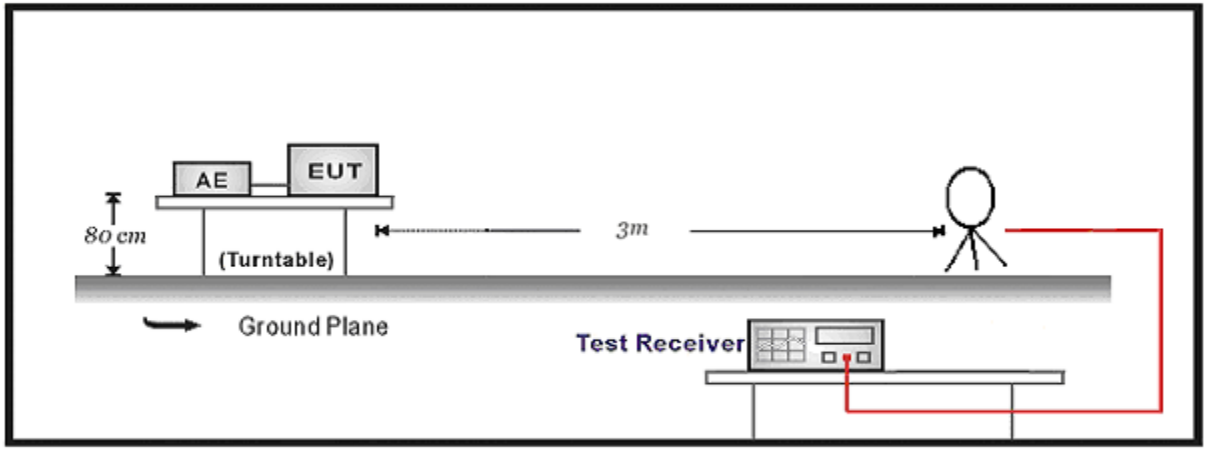
4.1. Test Equipment

Radiated Emission(Below 1GHz) / AC-2					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100573	2016.03.29	2017.03.28
Loop Antenna	R&S	HFH2-Z2	833799/003	2016.11.16	2017.11.15
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2016.10.16	2017.10.15
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2016.03.02	2017.03.01
Temperature/Humidity Meter	Zhichen	ZC1-2	AC2-TH	2017.01.04	2018.01.03
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

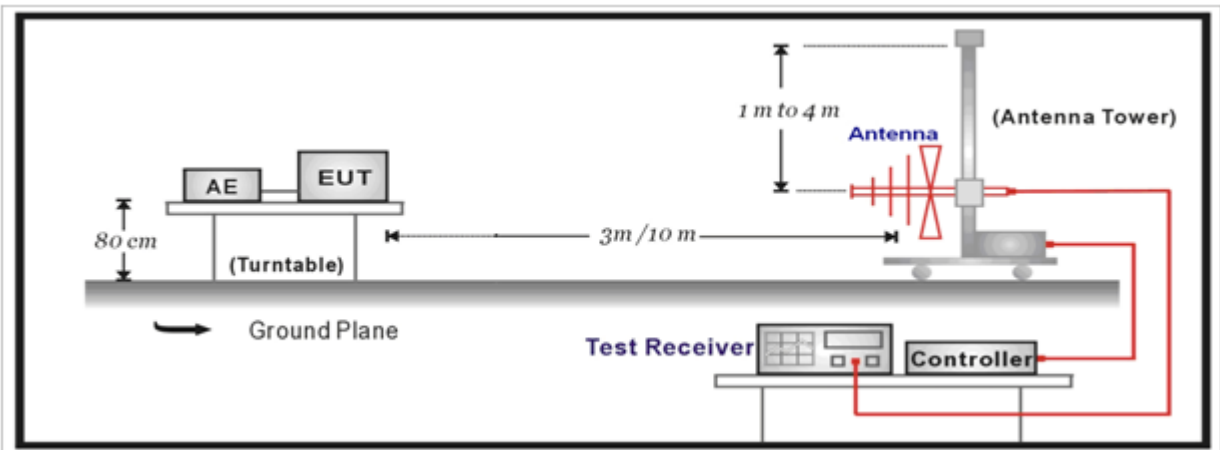
Radiated Emission(Above 1GHz) / AC-5					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2017.01.03	2018.01.02
Preamplifier	Miteq	NSP1800-25	1364185	2016.05.06	2017.05.05
Preamplifier	DEKRA Testing and Certification (Suzhou) Co., Ltd.	AP-040G	CHM-0906001	2016.05.06	2017.05.05
DRG Horn	ETS-Lindgren	3117	00123988	2017.01.21	2018.01.20
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2016.11.25	2017.11.24
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C1	2016.03.02	2017.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2016.03.02	2017.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	AC5-C3	2016.03.02	2017.03.01
EMI Receiver	Agilent	N9038A	MY51210196	2016.06.10	2017.06.09
Temperature/Humidity Meter	Zhichen	ZC1-2	AC5-TH	2017.01.04	2018.01.03
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

4.2. Test Setup

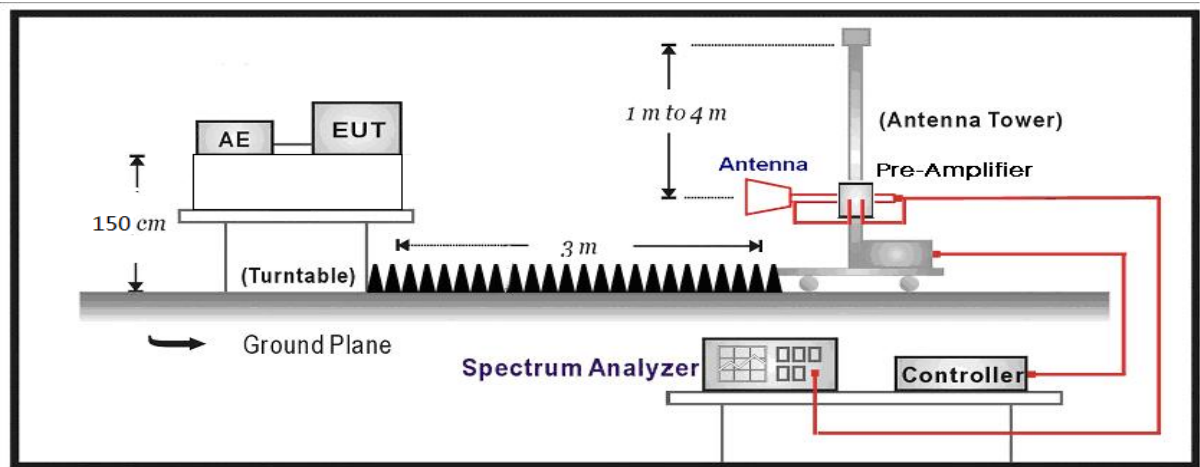
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limit

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

Restricted Band Emissions Limit			
Frequency (MHz)	Field strength (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)

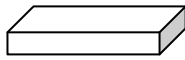
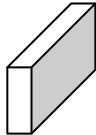
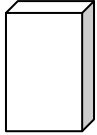


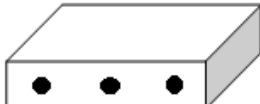
Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed 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
<input type="checkbox"/>	ANSI C63.10	11.11	Emissions in non-restricted frequency bands
	<input type="checkbox"/> ANSI C63.10	11.11.2	Reference level measurement
	<input type="checkbox"/> ANSI C63.10	11.11.3	Emission level measurement
<input checked="" type="checkbox"/>	ANSI C63.10	11.12	Emissions in restricted frequency bands
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.1	Radiated emission measurements
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.2.7	Radiated spurious emission test
	<input checked="" type="checkbox"/> ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
	<input checked="" type="checkbox"/> ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
	<input checked="" type="checkbox"/> ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz
	<input type="checkbox"/> ANSI C63.10	11.12.2.3	Quasi-peak measurement procedure
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.2.4	Peak power measurement procedure
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.2.5	Average power measurement procedures
	<input type="checkbox"/> ANSI C63.10	11.12.2.5.1	Trace averaging with continuous EUT transmission at full power
	<input type="checkbox"/> ANSI C63.10	11.12.2.5.2	Trace averaging across ON and OFF times of the EUT transmissions followed by duty cycle correction
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.2.5.3	Reduced VBW averaging across ON and OFF times of the EUT transmissions with max hold

4.5. EUT test Axis definition

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

4.6. Test Result

Product Name	: AC1200 Wireless Dual Band Gigabit Router	Power	: AC 120V/60Hz
Test Mode	: Mode 1	Test Site	: AC-5
Test Date	: 2016.12.27		

Chain	CH	Antenna Polarity	Frequency (MHz)	Reading Level (dB μ V)	Factor (dB)	Measured Level (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Detector
Ant 0	1	H	4824.000	52.476	-7.731	44.745	54(note3)	-9.255	PK
		H	7236.000	47.542	-4.473	43.069	54(note3)	-10.931	PK
		V	4824.000	52.932	-7.731	45.201	54(note3)	-8.799	PK
		V	7236.000	47.903	-4.473	43.430	54(note3)	-10.570	PK
	6	H	4876.000	58.725	-7.514	51.211	54(note3)	-2.789	PK
		H	7315.500	50.344	-4.343	46.001	54(note3)	-7.999	PK
		V	4874.000	61.492	-7.543	53.949	54.000	-0.051	AV
		V	4876.000	64.123	-7.514	56.609	74.000	-17.391	PK
		V	7307.000	52.163	-4.359	47.804	74.000	-26.196	PK
	11	H	4924.000	50.324	-7.694	42.631	54(note3)	-11.369	PK
		H	7386.000	46.827	-3.897	42.930	54(note3)	-11.070	PK
		V	4924.000	55.443	-7.694	47.750	54(note3)	-6.250	PK
		V	7386.000	47.254	-3.897	43.357	54(note3)	-10.643	PK

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

Note: 2. The test frequency range, 9kHz~30MHz, 18GHz~25GHz, both of the worst case are at least 6dB below the limits, therefore no data appear in the report.

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

Note: 4. The RBW setting, see Clause 6.6.

Product Name	: AC1200 Wireless Dual Band Gigabit Router	Power	: AC 120V/60Hz
Test Mode	: Mode 2	Test Site	: AC-5
Test Date	: 2016.12.27		

Chain	CH	Antenna Polarity	Frequency (MHz)	Reading Level (dB μ V)	Factor (dB)	Measured Level (dB μ V/m)	Limit (dB μ V/m)	Over Limt (dB)	Detector
Ant 0+1	1	H	4824.000	53.548	-7.731	45.817	54(note3)	-8.183	PK
		H	7236.000	47.359	-4.473	42.886	54(note3)	-11.114	PK
		V	4825.000	53.744	-7.732	46.012	54(note3)	-7.988	PK
		V	7236.000	46.996	-4.473	42.523	54(note3)	-11.477	PK
	6	H	4867.500	60.229	-7.635	52.593	54(note3)	-1.407	PK
		H	7311.000	47.714	-4.348	43.366	54(note3)	-10.634	PK
		V	4874.000	51.684	-7.543	44.141	54.000	-9.859	AV
		V	4876.000	62.772	-7.514	55.258	74.000	-18.742	PK
		V	7307.000	50.082	-4.359	45.723	74.000	-28.277	PK
	11	H	4924.000	50.176	-7.694	42.483	54(note3)	-11.517	PK
		H	7386.000	47.715	-3.897	43.818	54(note3)	-10.182	PK
		V	4927.000	54.813	-7.754	47.059	54(note3)	-6.941	PK
		V	7386.000	47.629	-3.897	43.732	54(note3)	-10.268	PK

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

Note: 2. The test frequency range, 9kHz~30MHz, 18GHz~25GHz, both of the worst case are at least 6dB below the limits, therefore no data appear in the report.

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

Note: 4. The RBW setting, see Clause 6.6.

Product Name	: AC1200 Wireless Dual Band Gigabit Router	Power	: AC 120V/60Hz
Test Mode	: Mode 3	Test Site	: AC-5
Test Date	: 2016.12.27		

Chain	CH	Antenna Polarity	Frequency (MHz)	Reading Level (dB μV)	Factor (dB)	Measured Level (dB μV/m)	Limit (dB μV/m)	Over Limt (dB)	Detector
Ant 0+1	1	H	4824.000	49.999	-7.731	42.268	54(note3)	-11.732	PK
		H	7236.000	47.256	-4.473	42.783	54(note3)	-11.217	PK
		V	4824.000	51.781	-7.731	44.050	54(note3)	-9.950	PK
		V	7236.000	46.611	-4.473	42.138	54(note3)	-11.862	PK
	6	H	4876.000	57.305	-7.514	49.791	54(note3)	-4.209	PK
		H	7311.000	47.914	-4.348	43.566	54(note3)	-10.434	PK
		V	4867.500	59.659	-7.635	52.023	54(note3)	-1.977	PK
		V	7311.000	49.536	-4.348	45.188	54(note3)	-8.812	PK
	11	H	4924.000	50.732	-7.694	43.039	54(note3)	-10.961	PK
		H	7386.000	48.214	-3.897	44.317	54(note3)	-9.683	PK
		V	4924.000	50.764	-7.694	43.071	54(note3)	-10.929	PK
		V	7386.000	46.016	-3.897	42.119	54(note3)	-11.881	PK

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

Note: 2. The test frequency range, 9kHz~30MHz, 18GHz~25GHz, both of the worst case are at least 6dB below the limits, therefore no data appear in the report.

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

Note: 4. The RBW setting, see Clause 6.6.

Product Name	: AC1200 Wireless Dual Band Gigabit Router	Power	: AC 120V/60Hz
Test Mode	: Mode 4	Test Site	: AC-5
Test Date	: 2016.12.27		

Chain	CH	Antenna Polarity	Frequency (MHz)	Reading Level (dB μV)	Factor (dB)	Measured Level (dB μV/m)	Limit (dB μV/m)	Over Limt (dB)	Detector
Ant 0+1	3	H	4844.000	50.548	-7.726	42.822	54(note3)	-11.178	PK
		H	7266.000	46.250	-4.218	42.032	54(note3)	-11.968	PK
		V	4844.000	50.548	-7.726	42.822	54(note3)	-11.178	PK
		V	7266.000	47.020	-4.218	42.802	54(note3)	-11.198	PK
	6	H	4874.000	50.227	-7.543	42.684	54(note3)	-11.316	PK
		H	7311.000	47.695	-4.348	43.347	54(note3)	-10.653	PK
		V	4874.000	50.227	-7.543	42.684	54(note3)	-11.316	PK
		V	7311.000	47.261	-4.348	42.913	54(note3)	-11.087	PK
	9	H	4804.000	50.116	-7.779	42.338	54(note3)	-11.662	PK
		H	7356.000	47.537	-4.309	43.228	54(note3)	-10.772	PK
		V	4804.000	50.116	-7.779	42.338	54(note3)	-11.662	PK
		V	7356.000	47.537	-4.309	43.228	54(note3)	-10.772	PK

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

Note: 2. The test frequency range, 9kHz~30MHz, 18GHz~25GHz, both of the worst case are at least 6dB below the limits, therefore no data appear in the report.

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

Note: 4. The RBW setting, see Clause 6.6.

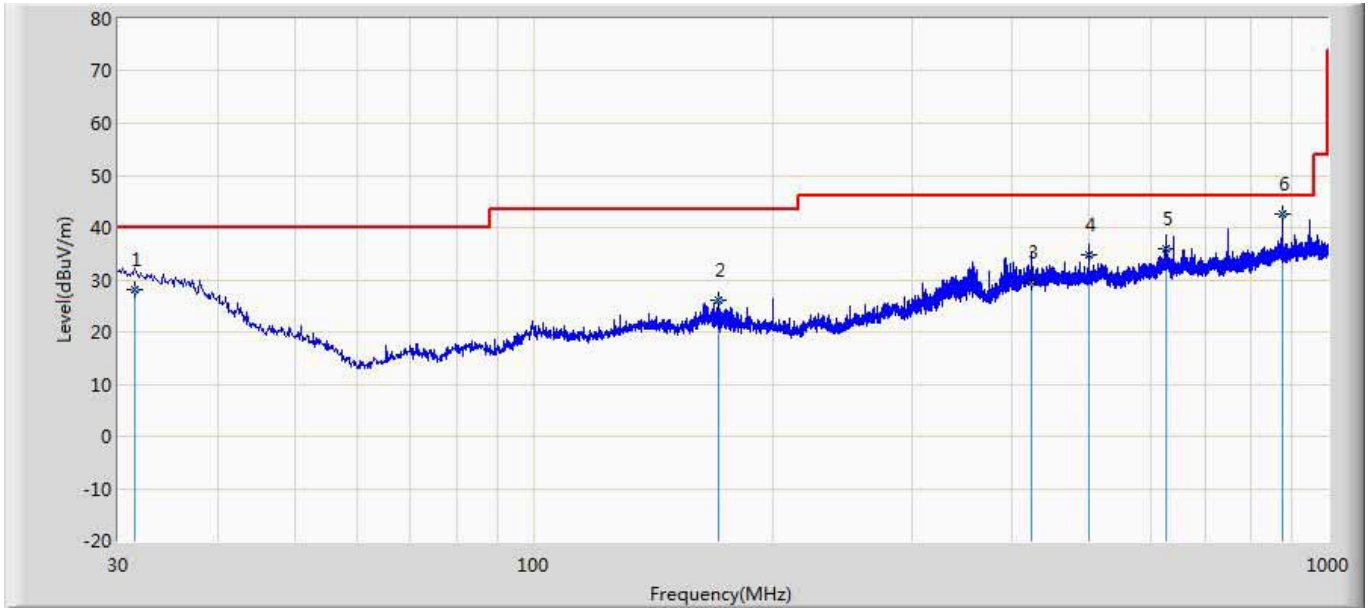
Product Name	: Wireless AC1200 Wireless Dual Band Gigabit Router	Power	: 120V/60Hz
Module No.	: Archer C1200	Test Site	: AC-5
Test Mode	: 2.4GHz & 5GHz Co-location	Test Date	: 2017.02.09

Chain	Mode	CH	Antenna Polarity	Frequency (MHz)	Reading Level (dBµV)	Factor (dB)	Measured Level (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
Ant 0+1	802.11b	6	H	4876.0	58.2	-7.5	50.7	54(note3)	-3.3	PK
			H	7315.5	50.1	-4.3	45.8	54(note3)	-8.2	PK
			V	4874.0	60.4	-7.5	52.9	54	-1.1	AV
			V	4876.0	64.3	-7.5	56.8	74	-17.2	PK
			V	7307.0	52.3	-4.4	47.9	54(Note3)	-6.1	PK
	802.11a	165	H	11650.5	30.3	23.2	53.5	54(Note3)	-0.5	PK
			H	17475	26.1	26.3	52.4	54(Note3)	-1.6	PK
			V	11650.5	29.7	23.6	53.3	54(Note3)	-0.7	PK
			V	17475	28.1	25.5	53.6	54(Note3)	-0.4	PK

1. Measured Level = Reading Level + Factor.
2. The test frequency range, 9kHz~30MHz, 18GHz~40GHz, both of the worst case are at least 26dB below the limits, therefore no data appear in the report.
3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

The worst case of Radiated Emission below 1GHz:

Site:AC2	Time: 2016/10/23
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: AC2_10M(30-1000M)	Polarity: Horizontal
EUT: AC 1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 1	

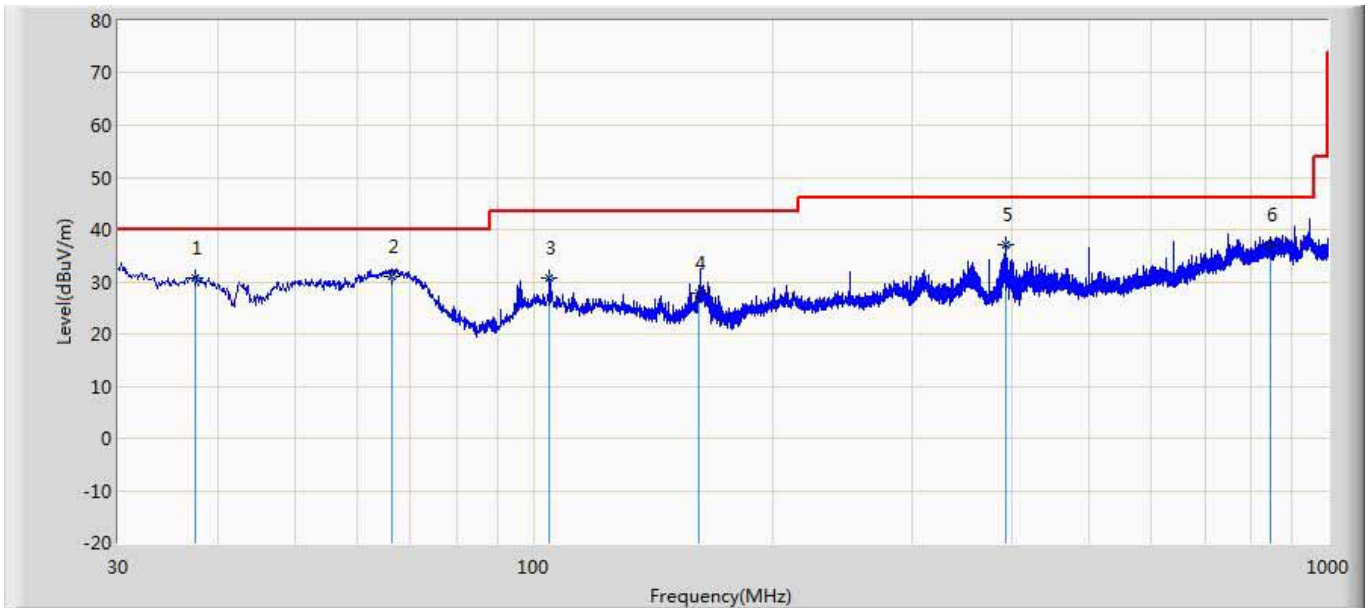


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		31.422	28.078	32.598	-11.922	40.000	17.975	0.615	23.109	200	241	QP
2		170.699	26.089	38.160	-17.411	43.500	9.579	1.420	23.070	200	93	QP
3		423.422	29.457	33.643	-16.543	46.000	16.468	2.260	22.914	100	82	QP
4		500.014	34.785	37.323	-11.215	46.000	17.802	2.420	22.760	200	5	QP
5		625.041	36.074	36.870	-9.926	46.000	19.000	2.740	22.536	153	360	QP
6	*	874.962	42.553	41.503	-3.447	46.000	20.450	3.260	22.660	100	98	QP

Note:

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

Site: AC2	Time: 2016/10/23
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: AC2_10M(30-1000M)	Polarity: Vertical
EUT: AC 1200 Wireless Dual Band Gigabit 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		37.539	30.623	38.743	-9.377	40.000	14.427	0.668	23.215	100	307	QP
2		66.343	31.113	46.925	-8.887	40.000	6.373	0.875	23.060	163	360	QP
3		104.734	30.645	41.121	-12.855	43.500	11.573	1.110	23.160	100	125	QP
4		161.730	27.735	39.549	-15.765	43.500	9.848	1.378	23.040	101	360	QP
5	*	393.271	37.178	42.183	-8.822	46.000	15.825	2.190	23.020	100	28	QP
6		845.834	37.005	35.939	-8.995	46.000	20.367	3.200	22.501	200	139	QP

Note:

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

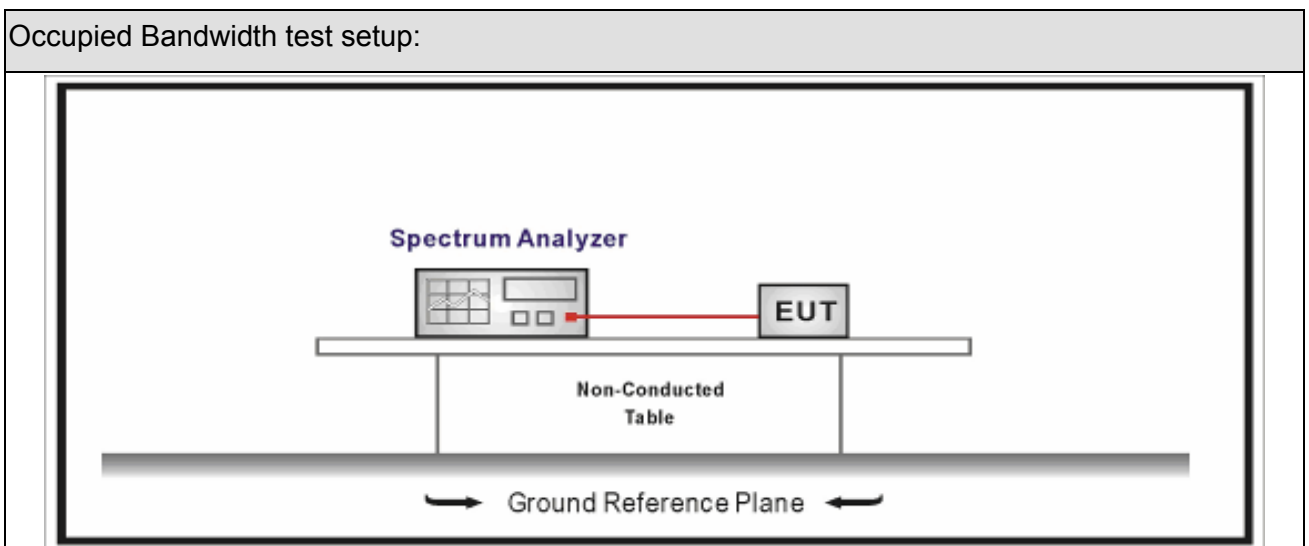
5. Emissions in non-restricted frequency bands

5.1. Test Equipment

Occupied Bandwidth / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2017.02.03	2018.02.02
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2016.04.09	2017.04.08
MXA Signal Analyzer	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



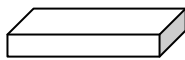
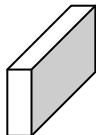
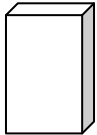
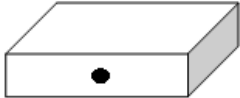


5.3. Limit

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

5.4. Test Procedure

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

5.5. EUT test Axis definition

Item	Emissions in non-restricted frequency bands			
Device Category	<input checked="" type="checkbox"/>	Fixed position use		
	<input type="checkbox"/>	Mobile position use		
Test mode	Mode 1 ~ Mode 4			
Test method	<input type="checkbox"/>	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>
	<input checked="" type="checkbox"/>	Conducted		
	<input type="checkbox"/>	Chain 0		
				
	<input checked="" type="checkbox"/>	Chain 0	Chain 1	
				
	<input type="checkbox"/>	Chain 0	Chain 1	Chain 2
				

5.6. Test Result

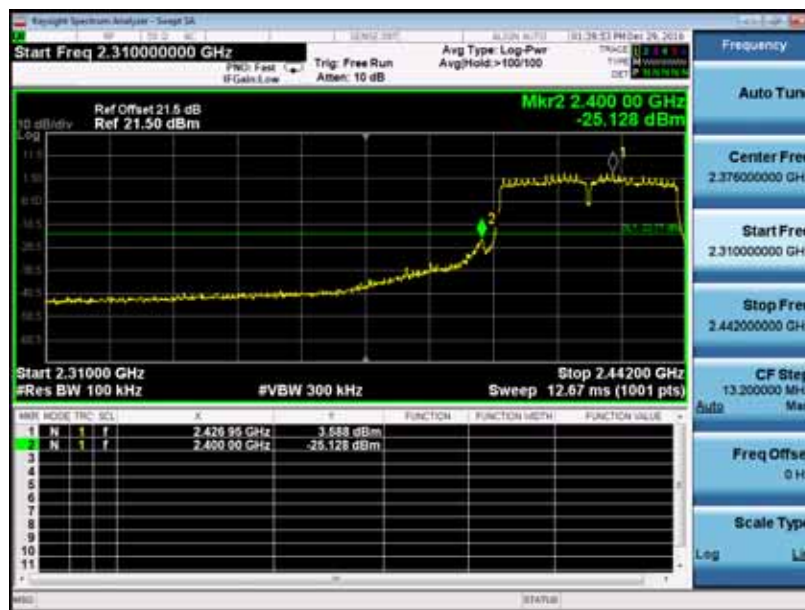
Product Name	: AC1200 Wireless Dual Band Gigabit Router	Power	: AC 120V/60Hz
Test Mode	: Mode1~4	Test Site	: TR8
Test Date	: 2016.12.01		

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	20.212	2400	-33.014	53.226	>30	Pass
1	11	2462	20.212	2500	-43.966	64.178	>30	Pass
2	01	2412	15.494	2400	-24.030	39.524	>30	Pass
2	11	2462	15.494	2500	-47.833	63.327	>30	Pass
3	01	2412	14.505	2400	-25.222	39.727	>30	Pass
3	11	2462	14.505	2500	-48.662	63.167	>30	Pass
4	03	2422	7.232	2400	-25.128	32.360	>30	Pass
4	09	2452	7.232	2500	-47.919	55.151	>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.
 3: In-Band PSD[a] data is tested by Mid channel.

Mode 4 CH03(2422MHz)

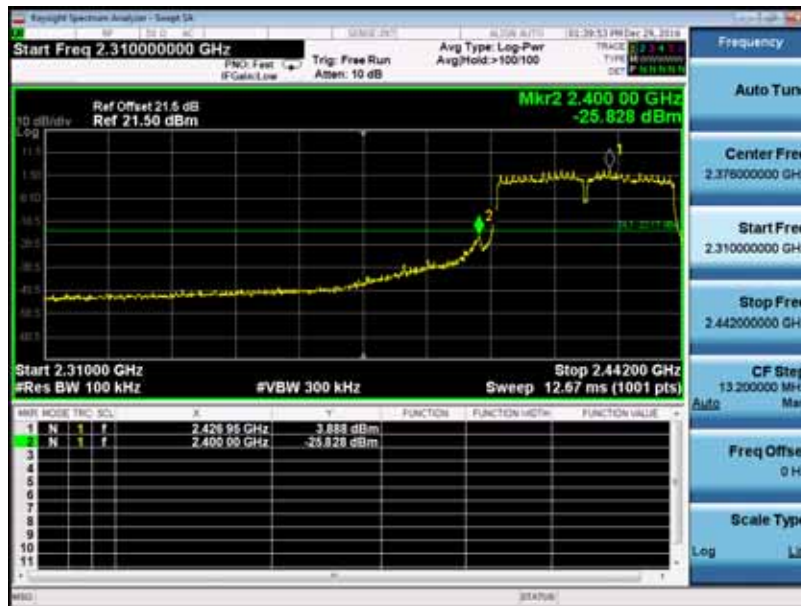


Antenna #1

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
2	01	2412	14.494	2400	-24.430	38.924	>30	Pass
2	11	2462	14.494	2500	-47.533	62.027	>30	Pass
3	01	2412	14.905	2400	-24.222	39.127	>30	Pass
3	11	2462	14.905	2500	-48.222	63.127	>30	Pass
4	03	2422	7.932	2400	-25.828	33.760	>30	Pass
4	09	2452	7.932	2500	-47.519	55.451	>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.
 3: In-Band PSD[a] data is tested by Mid channel.

Mode 4 CH03(2422MHz)

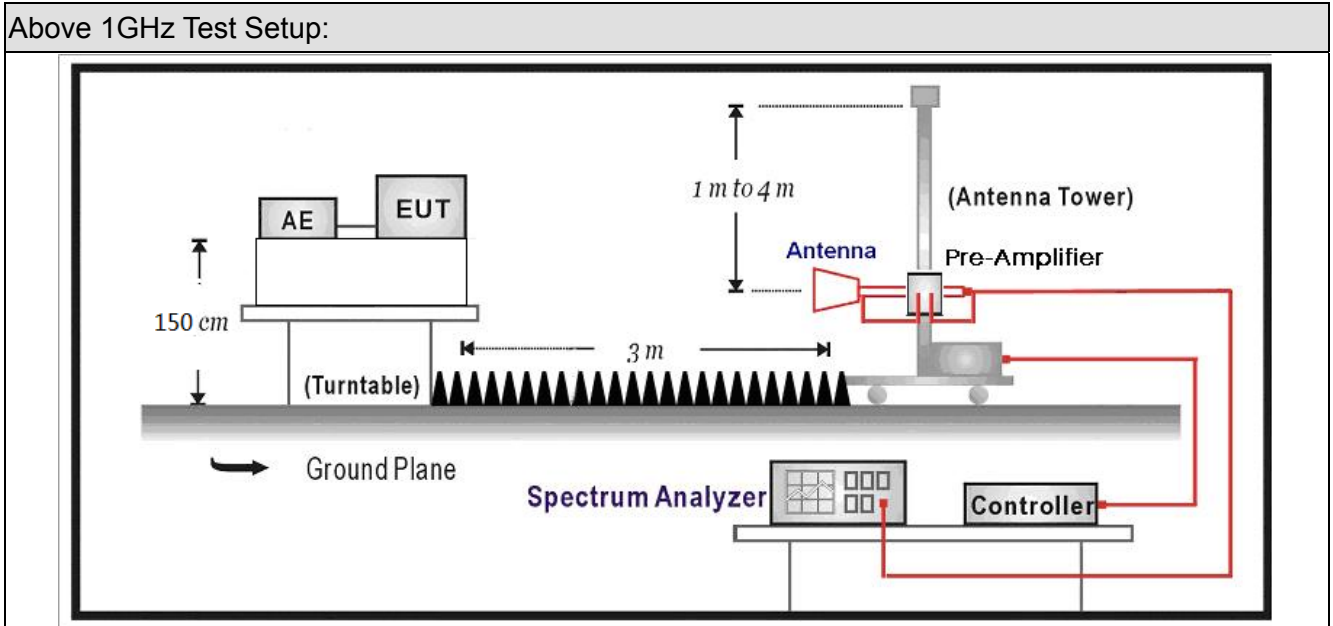


6. Radiated Emission Band Edge

6.1. Test Equipment

Radiated Emission(Above 1GHz) / AC-5					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
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



6.3. Limit

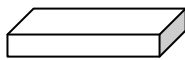
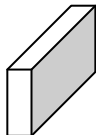
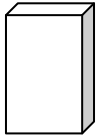
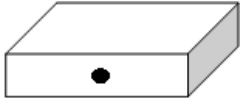


Band edge Limit				
Frequency bands (MHz)	Detector	Limit (dB μ V/m)	RBW (MHz)	Distance (m)
2310-2390	PK	74	1	3
2483.5-2500	AV	54	1	3

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

6.4. Test Procedure

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

6.5. EUT test definition

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

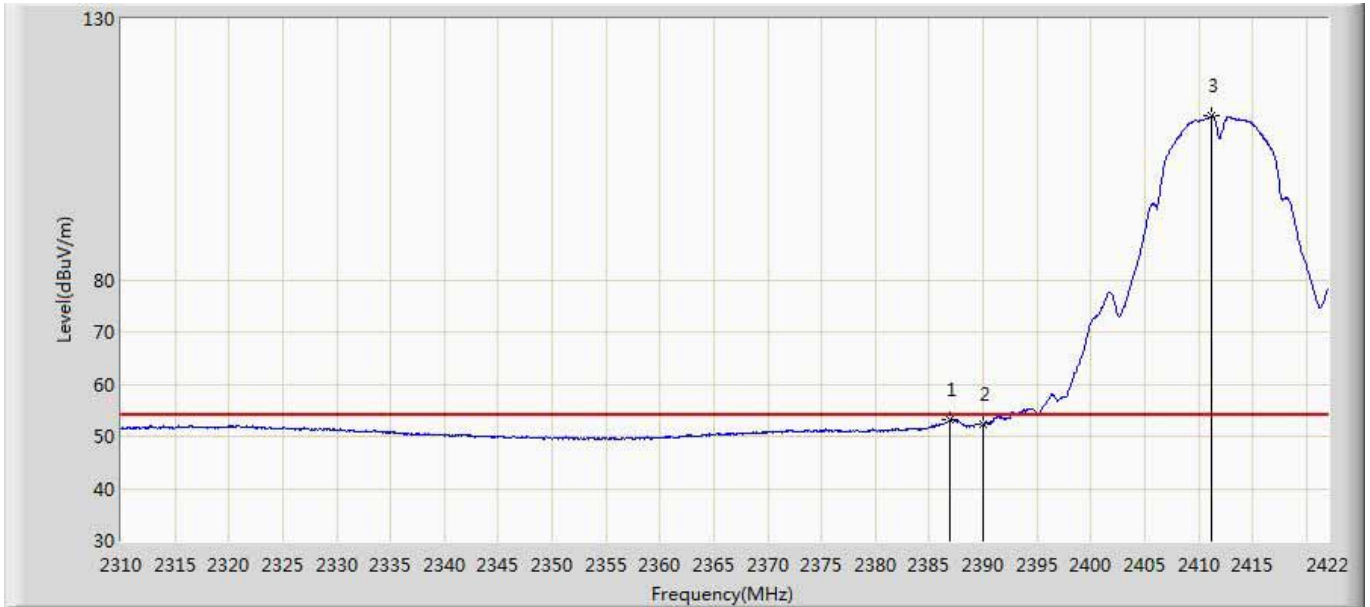
6.6. Duty Cycle

Test Mode	Tx On (ms)	Tx Off (ms)	VBW	Tx On + Tx Off (ms)	Duty Cycle
802.11b	12.38	0.680	82Hz	13.06	94.79%
802.11g	12.42	0.640	82Hz	13.06	95.10%
802.11n(20MHz)	2.068	0.113	470Hz	2.181	94.82%
802.11n(40MHz)	0.9341	0.0979	1.1KHz	1.032	90.51%



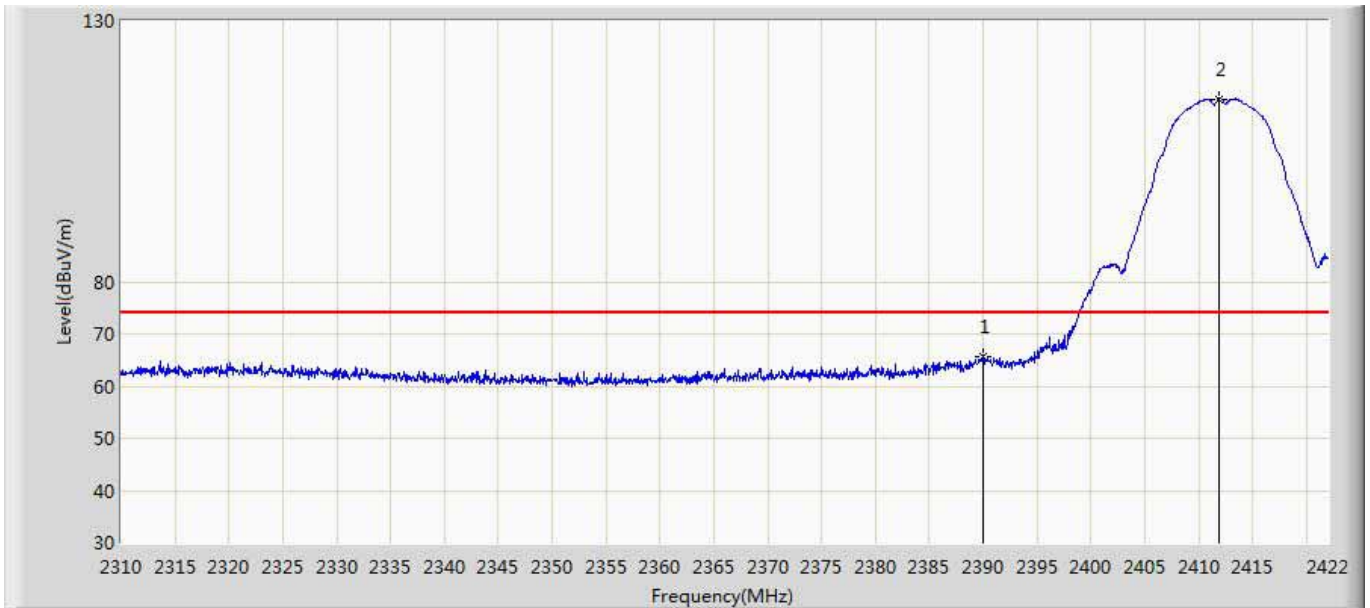
6.7. Test Result

Site: AC5	Time: 2016/12/23 - 10:50
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2412 by 802.11b With antenna 0	



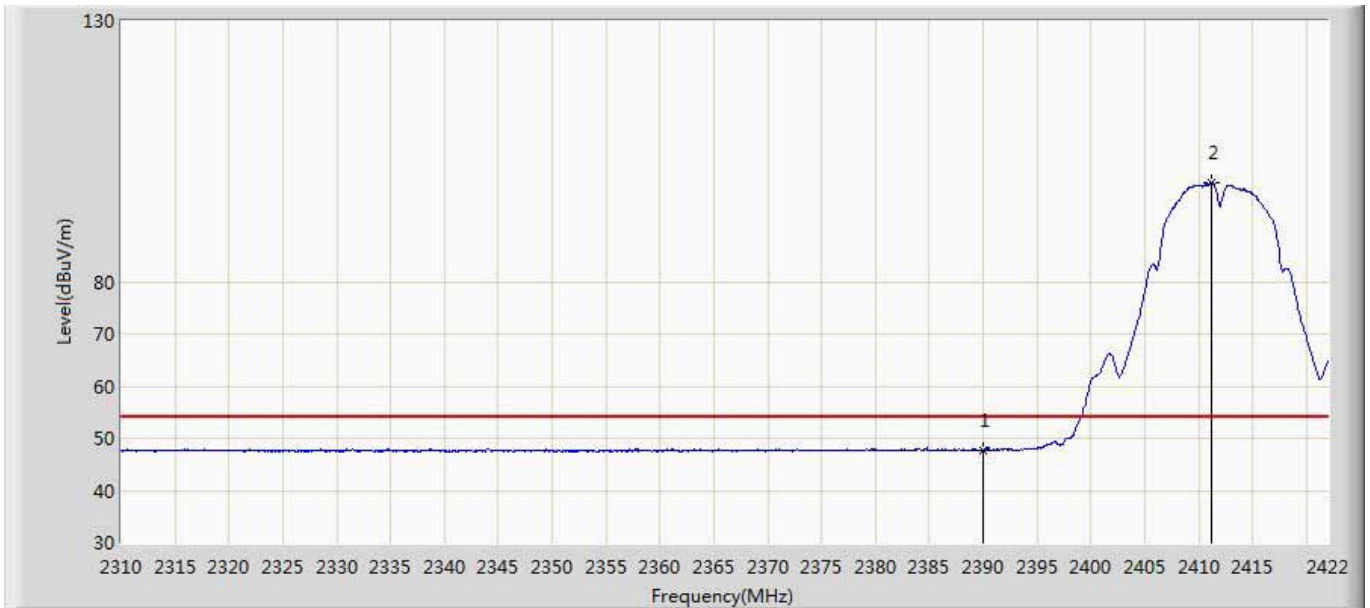
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2386.888	53.224	17.144	-0.776	54.000	36.080	AV
2		2390.000	52.230	16.144	-1.770	54.000	36.086	AV
3	*	2411.248	111.372	75.213	57.372	54.000	36.159	AV

Site: AC5	Time: 2016/12/23 - 10:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 2412 by 802.11b With antenna 0	



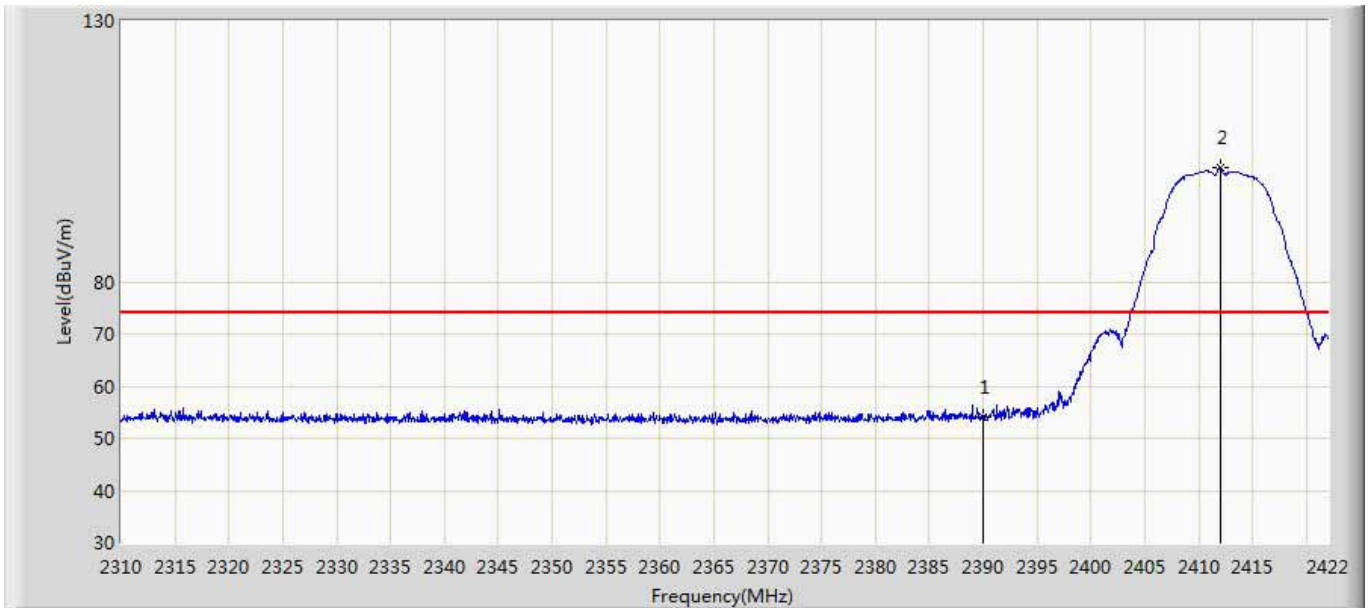
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	65.585	29.499	-8.415	74.000	36.086	PK
2	*	2411.864	115.056	78.897	41.056	74.000	36.159	PK

Site: AC5	Time: 2016/12/23 - 11:03
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2412 by 802.11b With antenna 0	



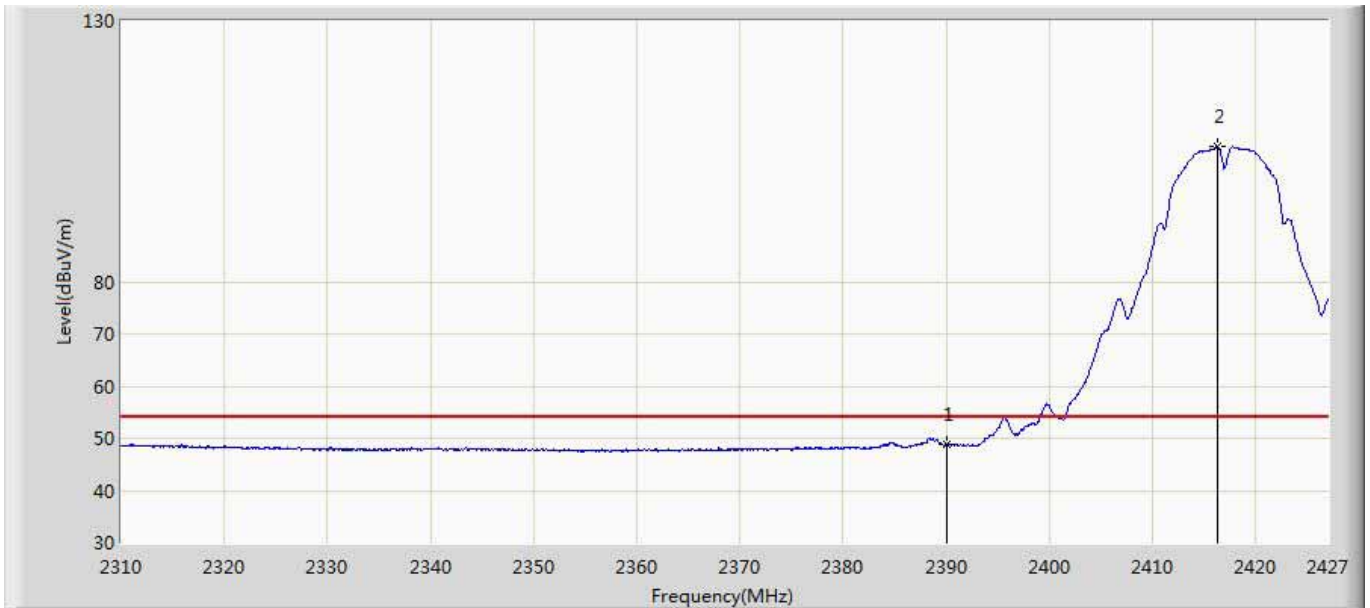
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	47.682	11.596	-6.318	54.000	36.086	AV
2	*	2411.248	98.951	62.792	44.951	54.000	36.159	AV

Site: AC5	Time: 2016/12/23 - 11:04
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2412 by 802.11b With antenna 0	



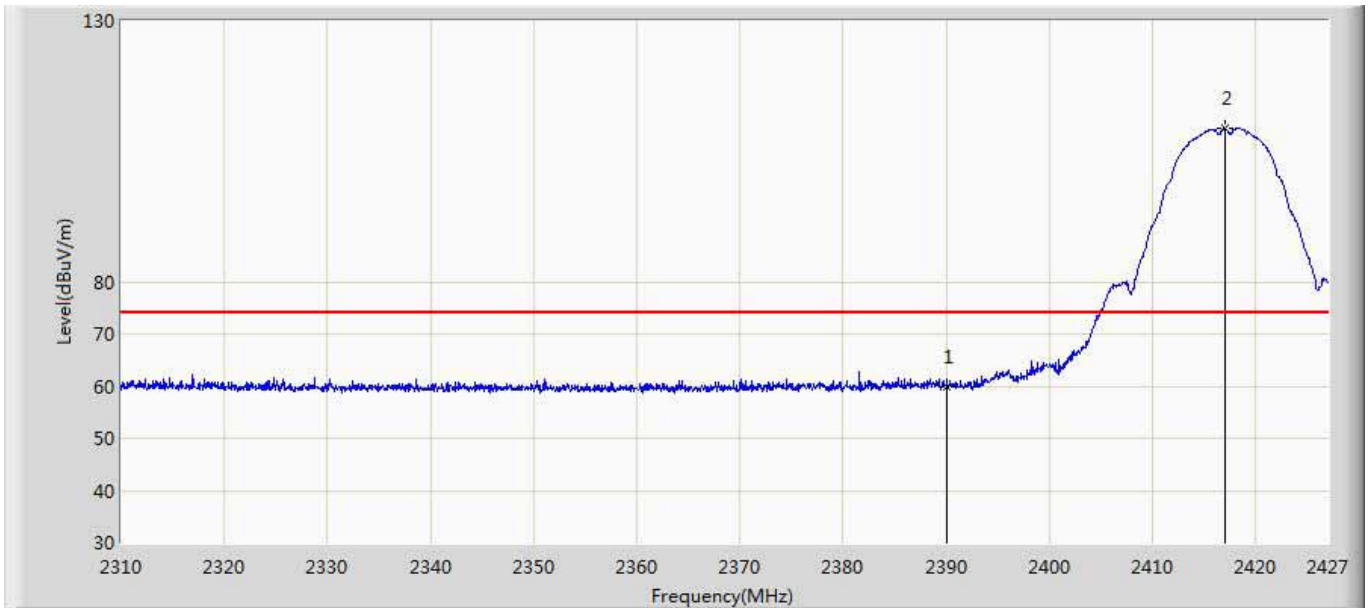
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	54.172	18.086	-19.828	74.000	36.086	PK
2	*	2411.976	101.906	65.747	27.906	74.000	36.159	PK

Site: AC5	Time: 2016/12/27 - 15:04
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2417 by 802.11b With antenna 0	



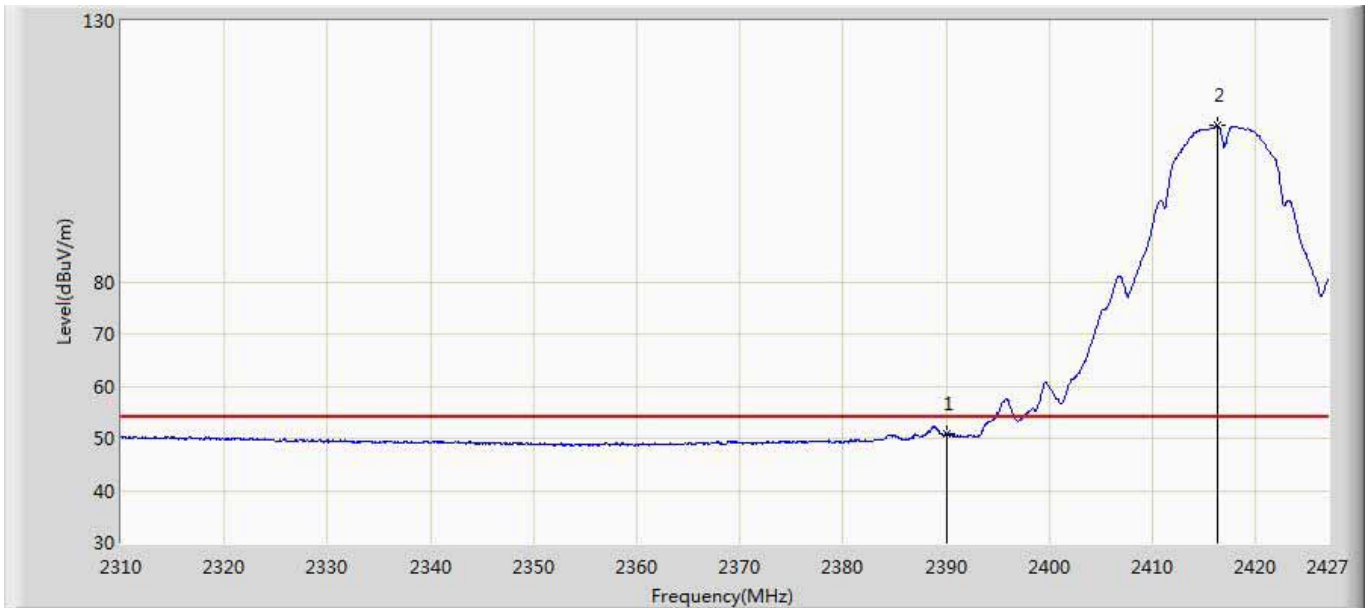
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	48.863	12.777	-5.137	54.000	36.086	AV
2	*	2416.236	105.932	69.771	51.932	54.000	36.160	AV

Site: AC5	Time: 2016/12/27 - 15:16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2417 by 802.11b With antenna 0	



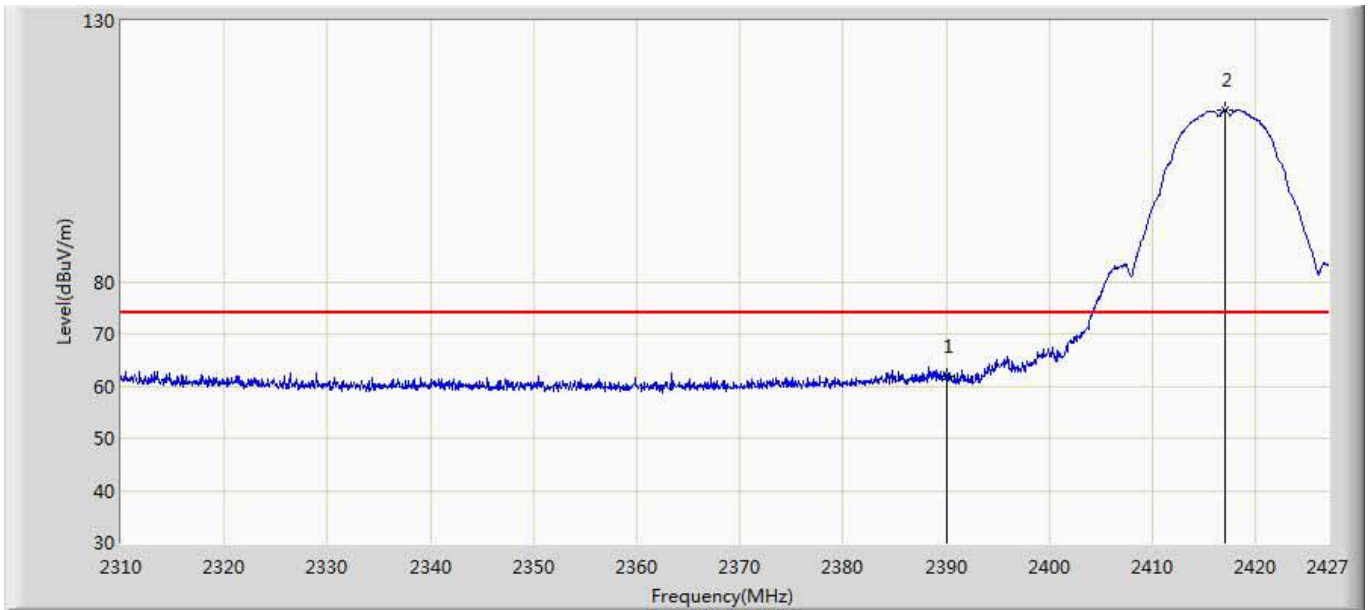
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	59.909	23.823	-14.091	74.000	36.086	PK
2	*	2416.997	109.350	73.189	35.350	74.000	36.161	PK

Site: AC5	Time: 2016/12/27 - 15:18
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2417 by 802.11b With antenna 0	



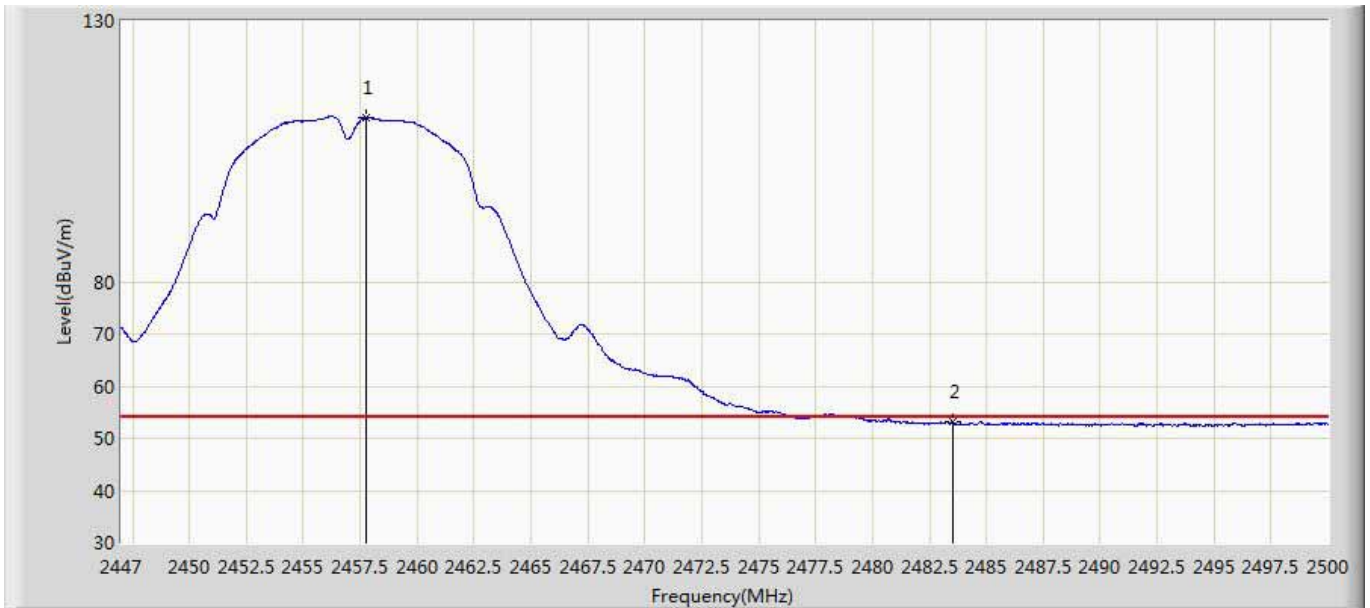
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	50.917	14.831	-3.083	54.000	36.086	AV
2	*	2416.294	109.969	73.808	55.969	54.000	36.161	AV

Site: AC5	Time: 2016/12/27 - 15:20
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2417 by 802.11b With antenna 0	



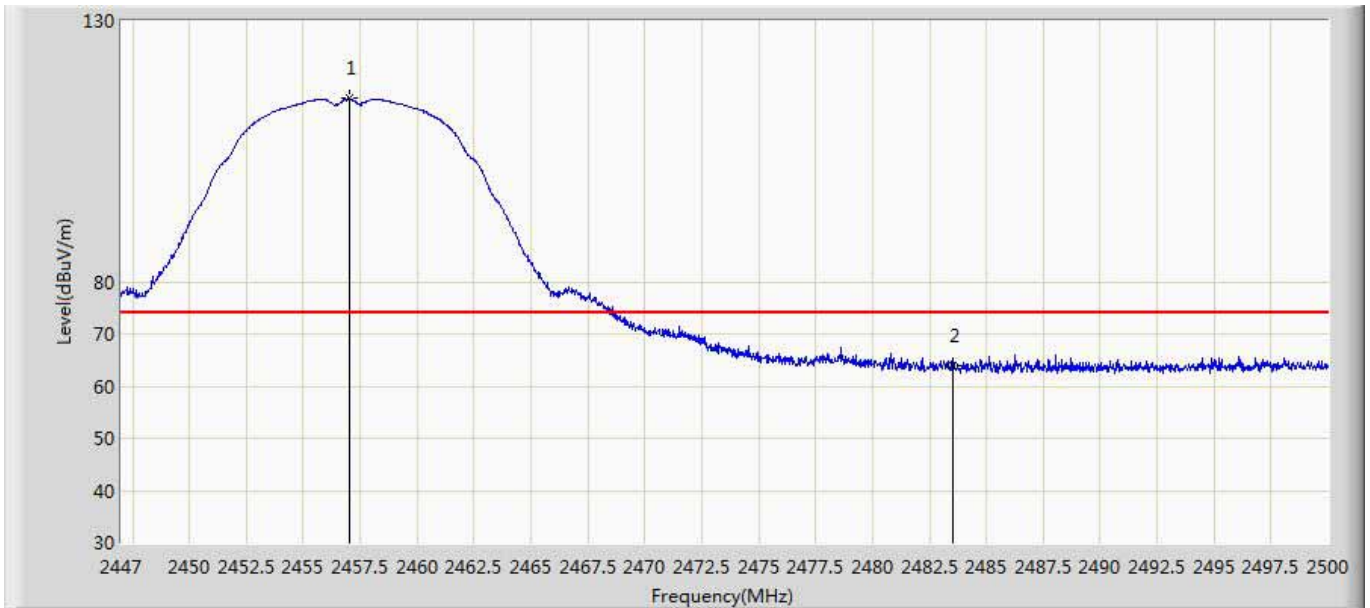
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	61.813	25.727	-12.187	74.000	36.086	PK
2	*	2417.055	112.884	76.723	38.884	74.000	36.161	PK

Site: AC5	Time: 2016/12/27 - 15:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2457 by 802.11b With antenna 0	



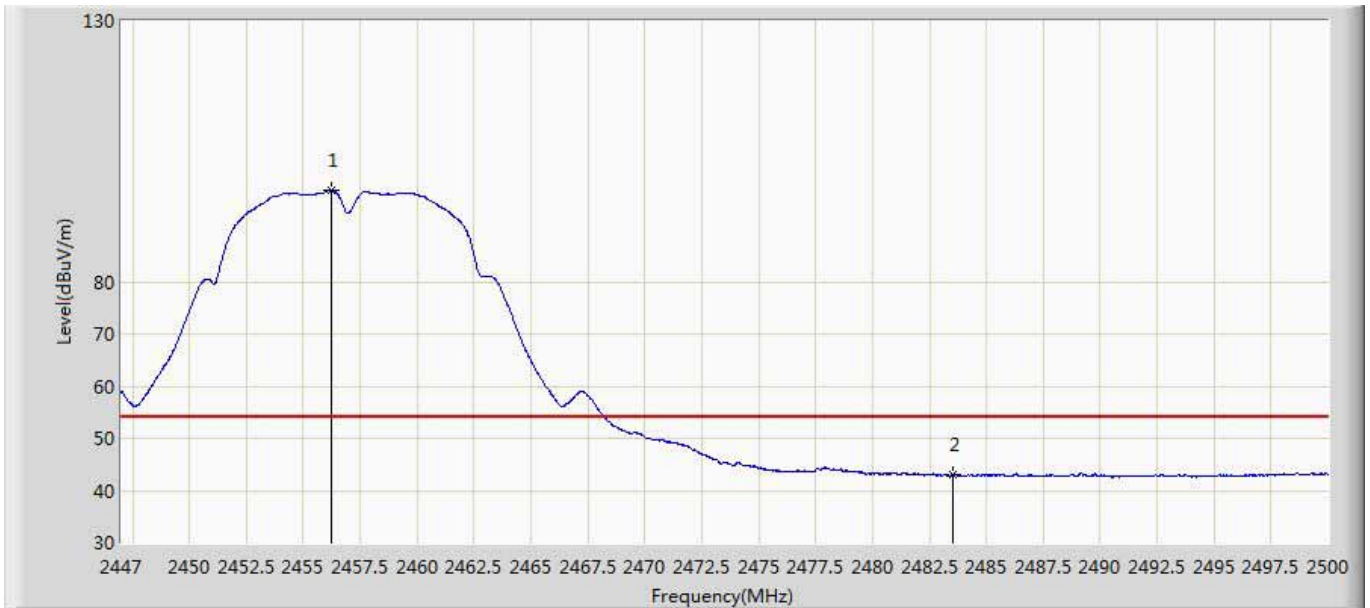
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2457.732	111.529	75.315	57.529	54.000	36.214	AV
2		2483.500	53.114	16.852	-0.886	54.000	36.261	AV

Site: AC5	Time: 2016/12/27 - 15:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 2457 by 802.11b With antenna 0	



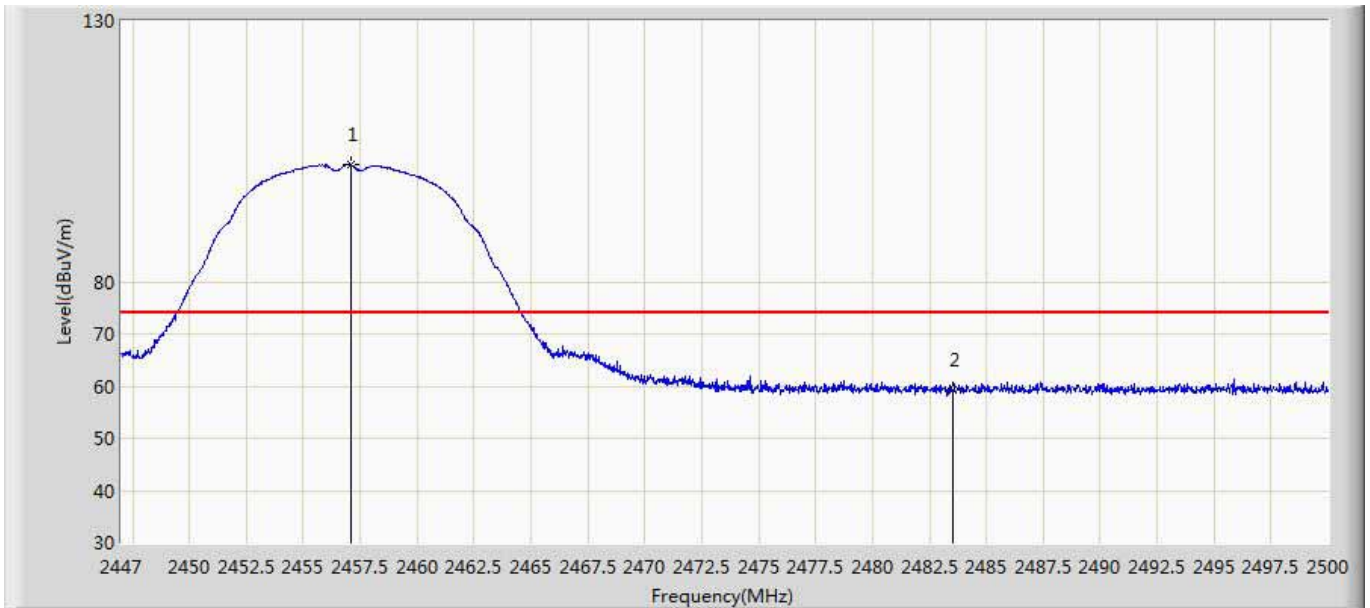
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2457.017	115.075	78.861	41.075	74.000	36.214	PK
2		2483.500	63.832	27.571	-10.168	74.000	36.261	PK

Site: AC5	Time: 2016/12/27 - 15:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2457 by 802.11b With antenna 0	



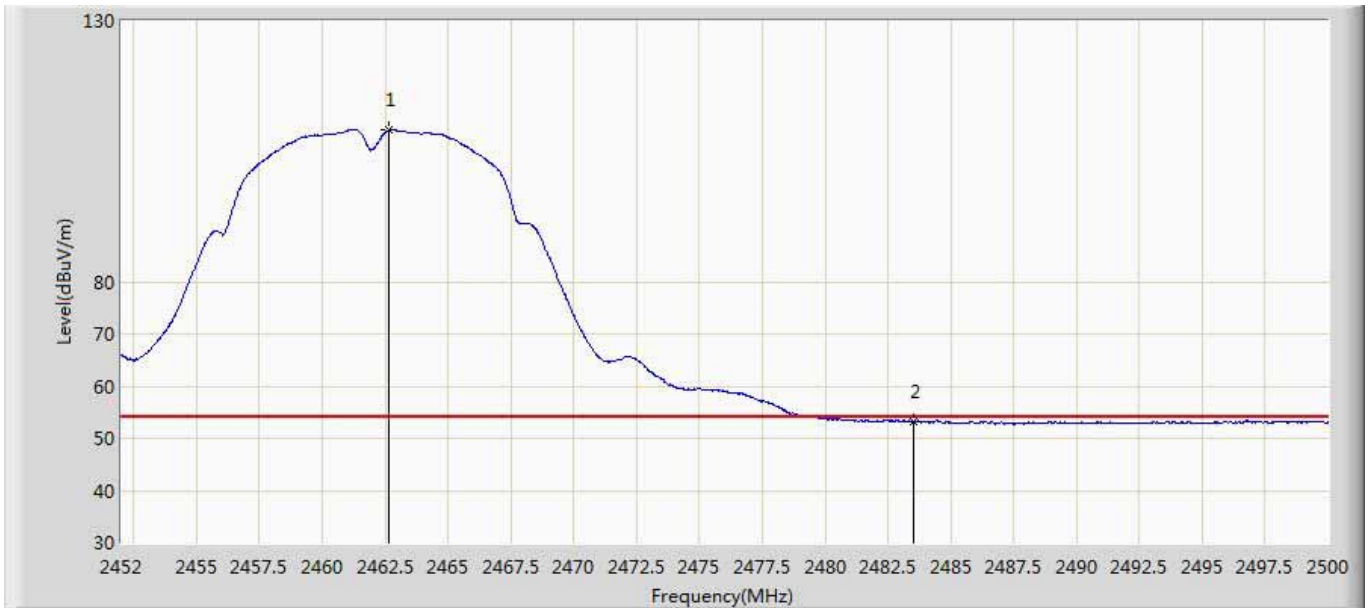
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2456.222	97.560	61.345	43.560	54.000	36.215	AV
2		2483.500	42.931	6.670	-11.069	54.000	36.261	AV

Site: AC5	Time: 2016/12/27 - 15:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 2457 by 802.11b With antenna 0	



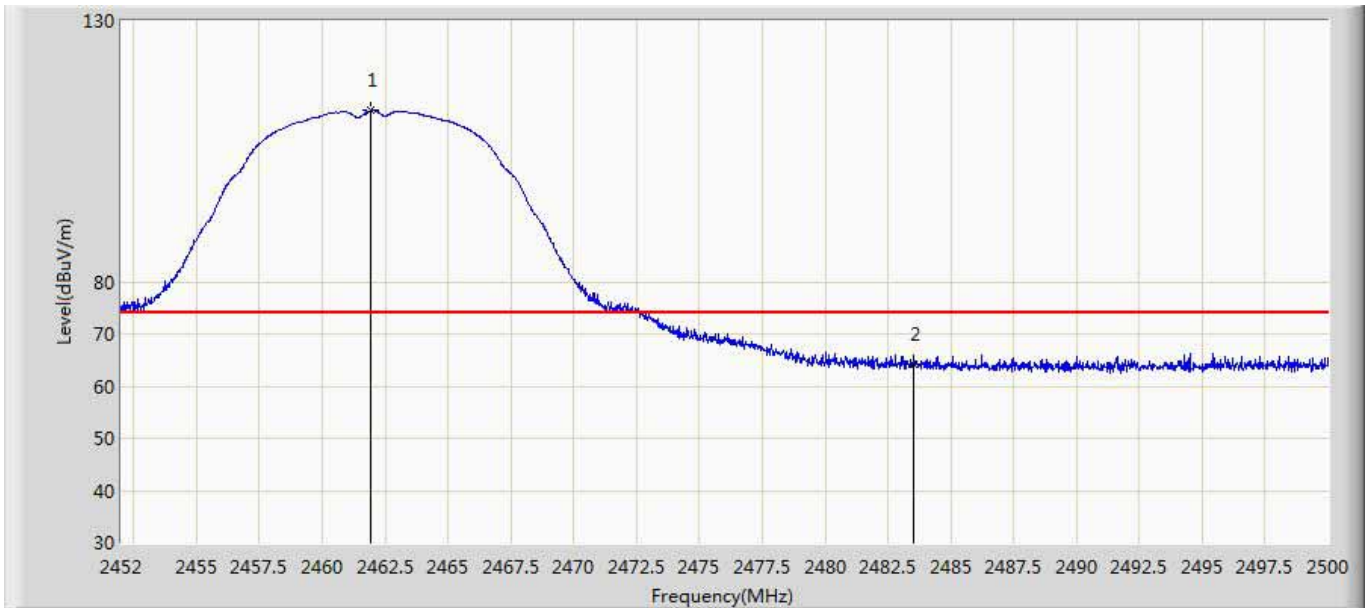
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2457.096	102.320	66.106	28.320	74.000	36.214	PK
2		2483.500	59.377	23.116	-14.623	74.000	36.261	PK

Site: AC5	Time: 2016/12/23 - 11:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2462 by 802.11b With antenna 0	



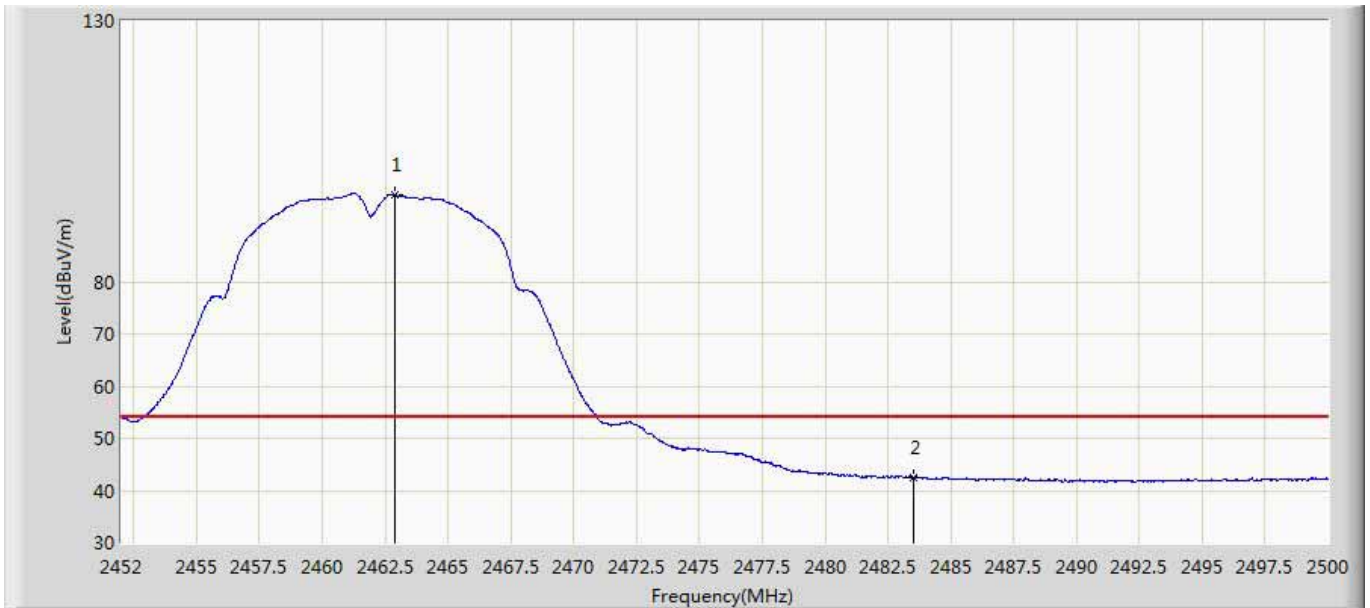
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2462.656	109.040	72.827	55.040	54.000	36.214	AV
2		2483.500	53.158	16.897	-0.842	54.000	36.261	AV

Site: AC5	Time: 2016/12/23 - 11:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 2462 by 802.11b With antenna 0	



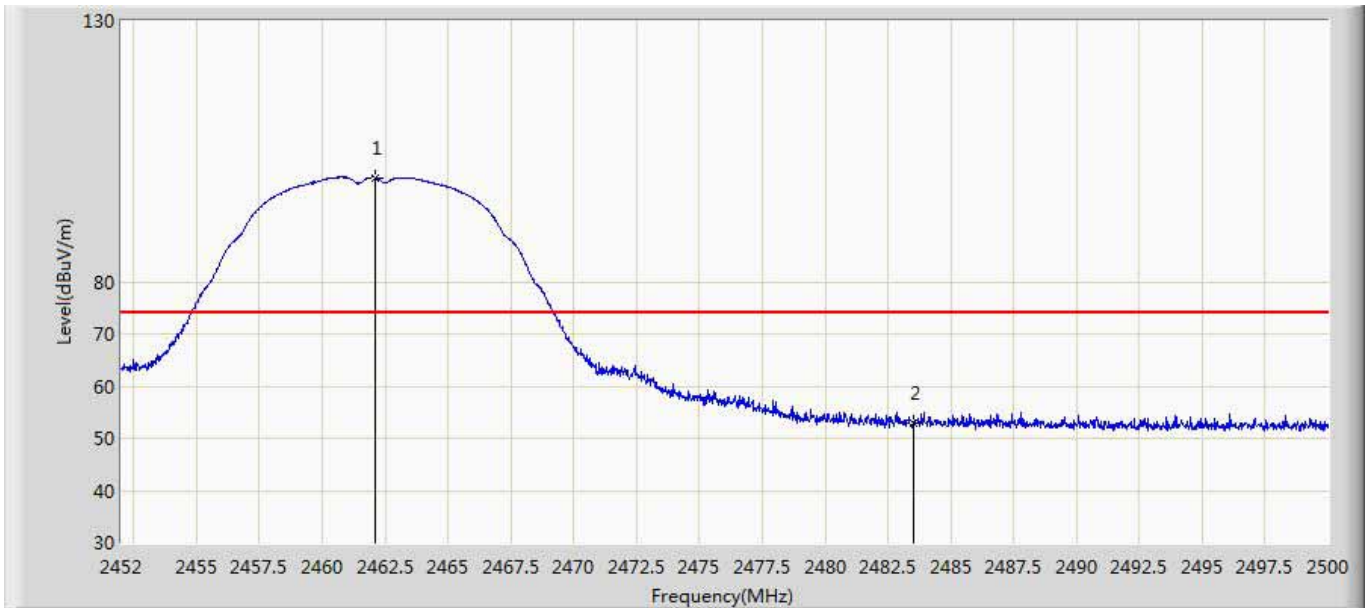
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2461.912	112.775	76.563	38.775	74.000	36.212	PK
2		2483.500	64.177	27.915	-9.823	74.000	36.261	PK

Site: AC5	Time: 2016/12/27 - 15:50
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2462 by 802.11b With antenna 0	



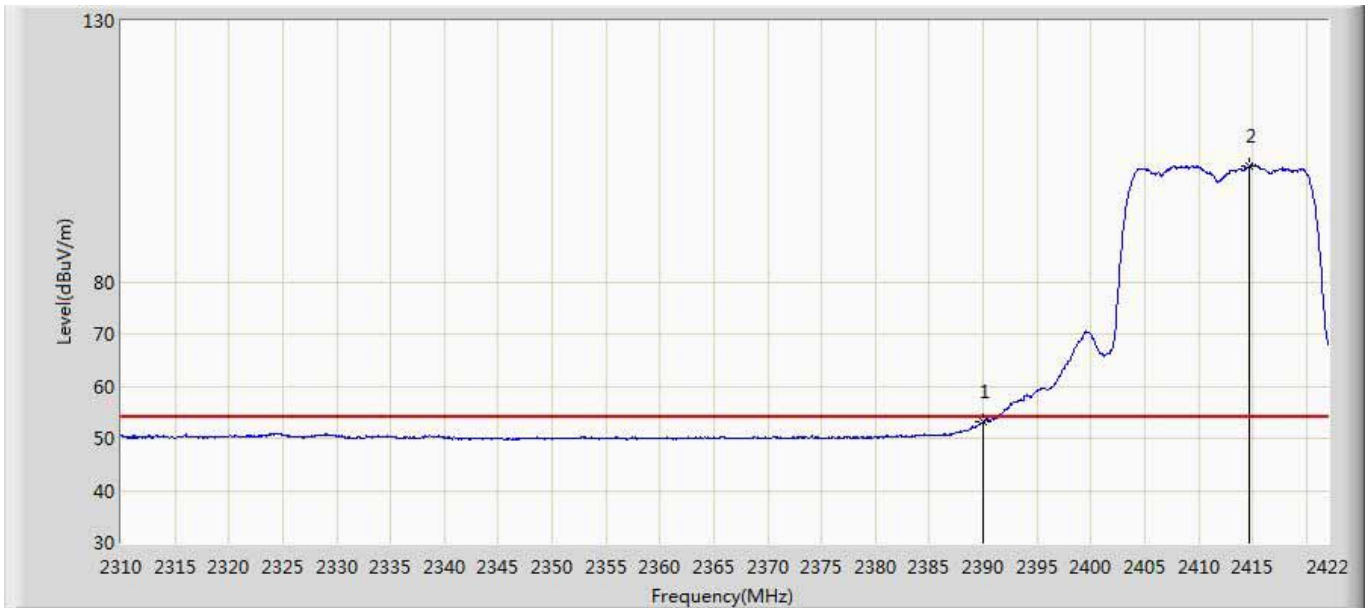
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2462.872	96.654	60.440	42.654	54.000	36.214	AV
2		2483.500	42.550	6.289	-11.450	54.000	36.261	AV

Site: AC5	Time: 2016/12/27 - 16:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2462 by 802.11b With antenna 0	



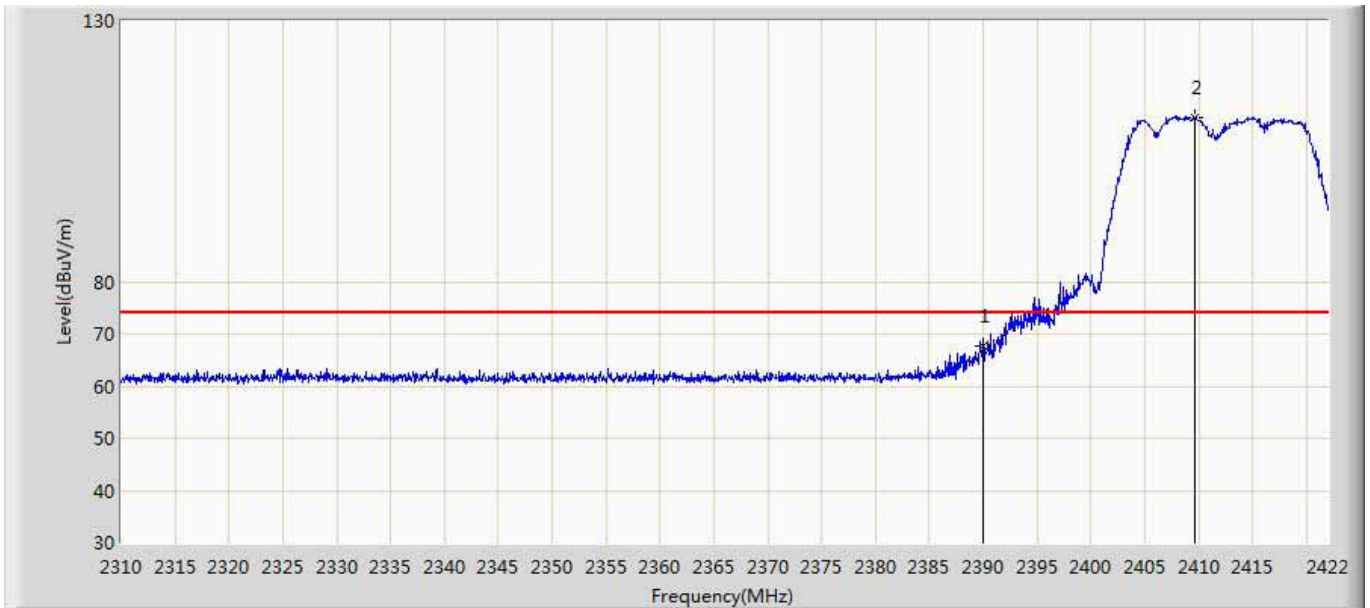
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2462.104	99.908	63.696	25.908	74.000	36.212	PK
2		2483.500	52.880	16.619	-21.120	74.000	36.261	PK

Site: AC5	Time: 2016/12/23 - 11:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2412 by 802.11g With antenna 0+1	



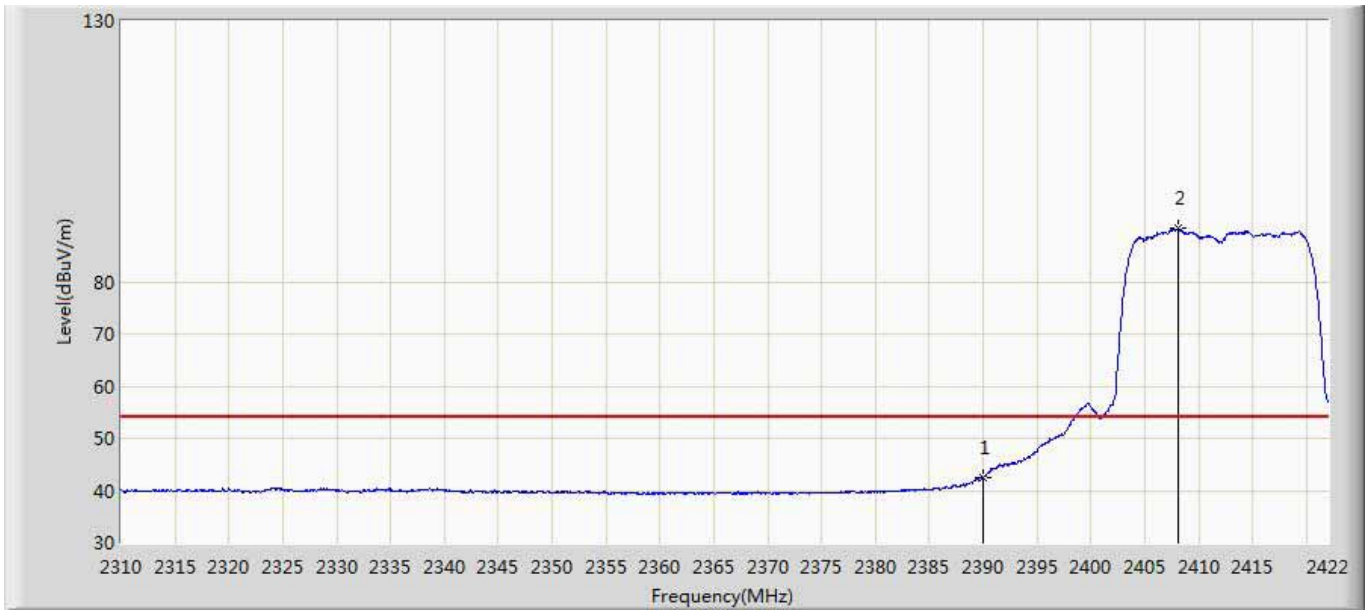
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.091	17.005	-0.909	54.000	36.086	AV
2	*	2414.720	102.206	66.046	48.206	54.000	36.161	AV

Site: AC5	Time: 2016/12/23 - 11:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2412 by 802.11g With antenna 0+1	



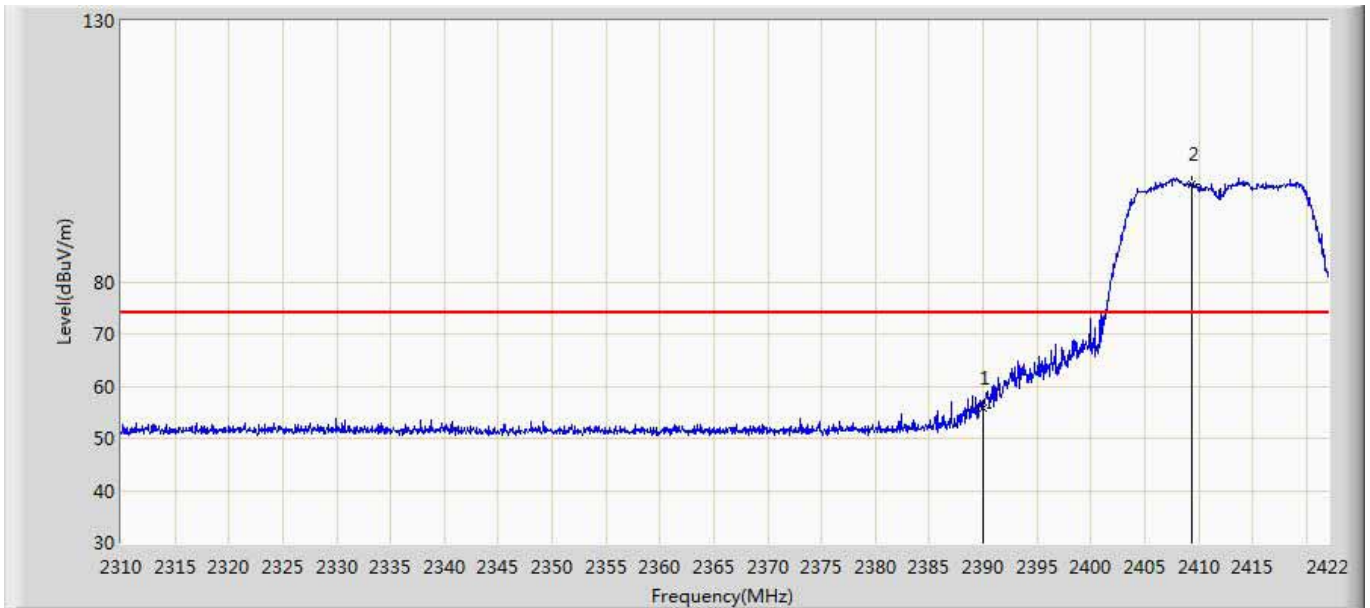
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	67.725	31.639	-6.275	74.000	36.086	PK
2	*	2409.680	111.316	75.162	37.316	74.000	36.154	PK

Site: AC5	Time: 2016/12/27 - 16:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2412 by 802.11g With antenna 0+1	



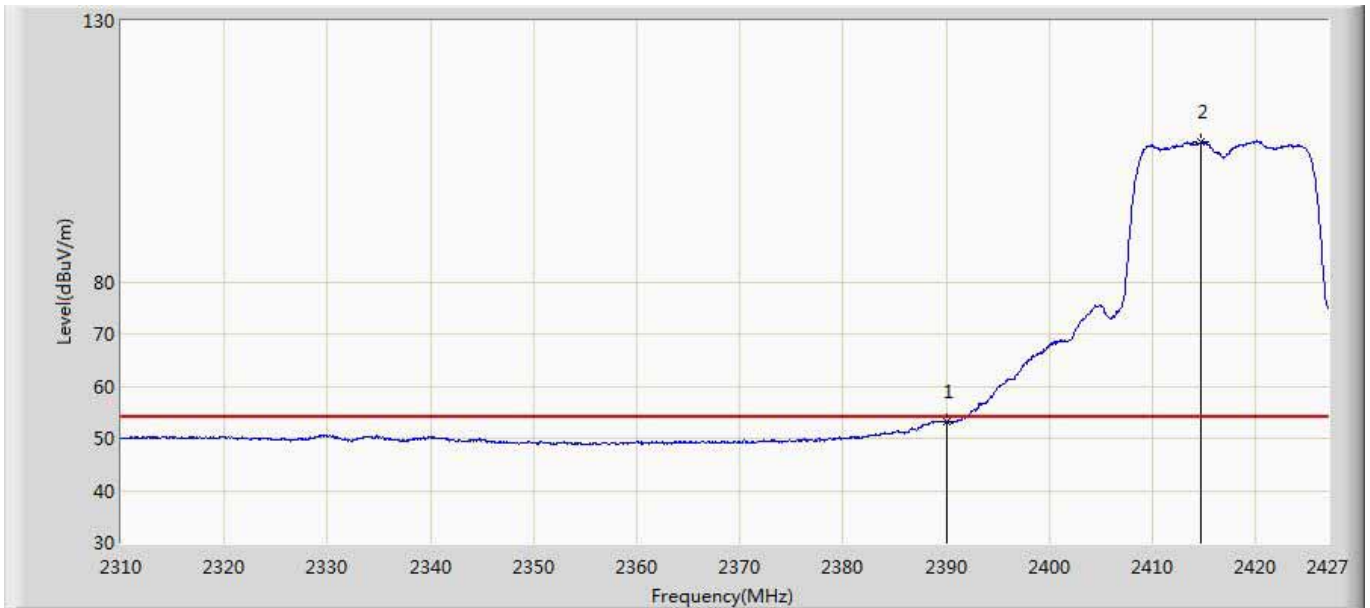
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	42.572	6.486	-11.428	54.000	36.086	AV
2	*	2408.112	90.261	54.113	36.261	54.000	36.148	AV

Site: AC5	Time: 2016/12/27 - 16:12
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2412 by 802.11g With antenna 0+1	



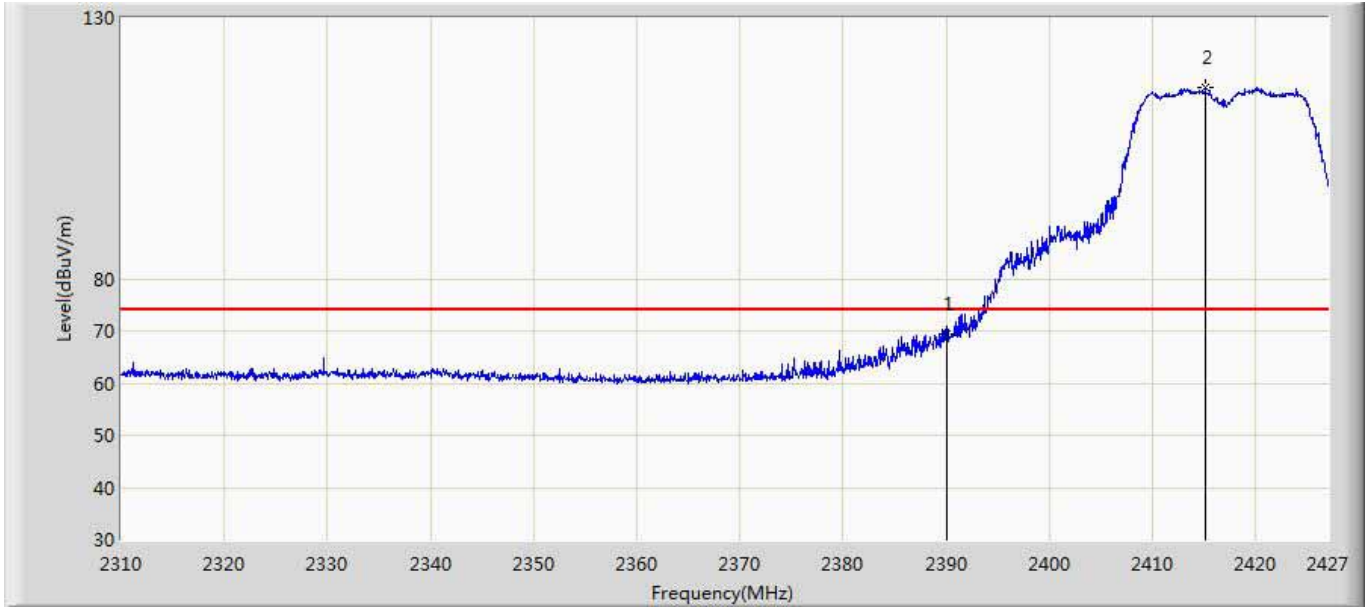
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	55.786	19.700	-18.214	74.000	36.086	PK
2	*	2409.400	98.792	62.639	24.792	74.000	36.153	PK

Site: AC5	Time: 2016/12/27 - 16:14
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2417 by 802.11g With antenna 0+1	



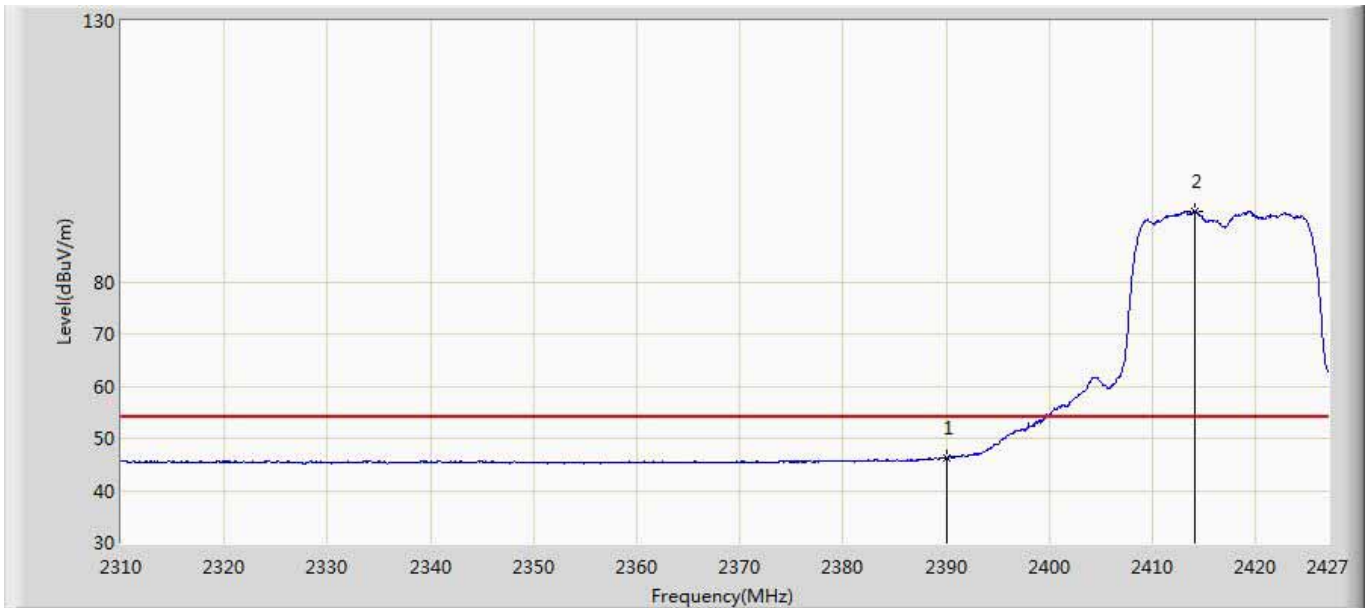
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.225	17.139	-0.775	54.000	36.086	AV
2	*	2414.715	106.709	70.549	52.709	54.000	36.161	AV

Site: AC5	Time: 2016/12/27 - 16:18
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2417 by 802.11g With antenna 0+1	



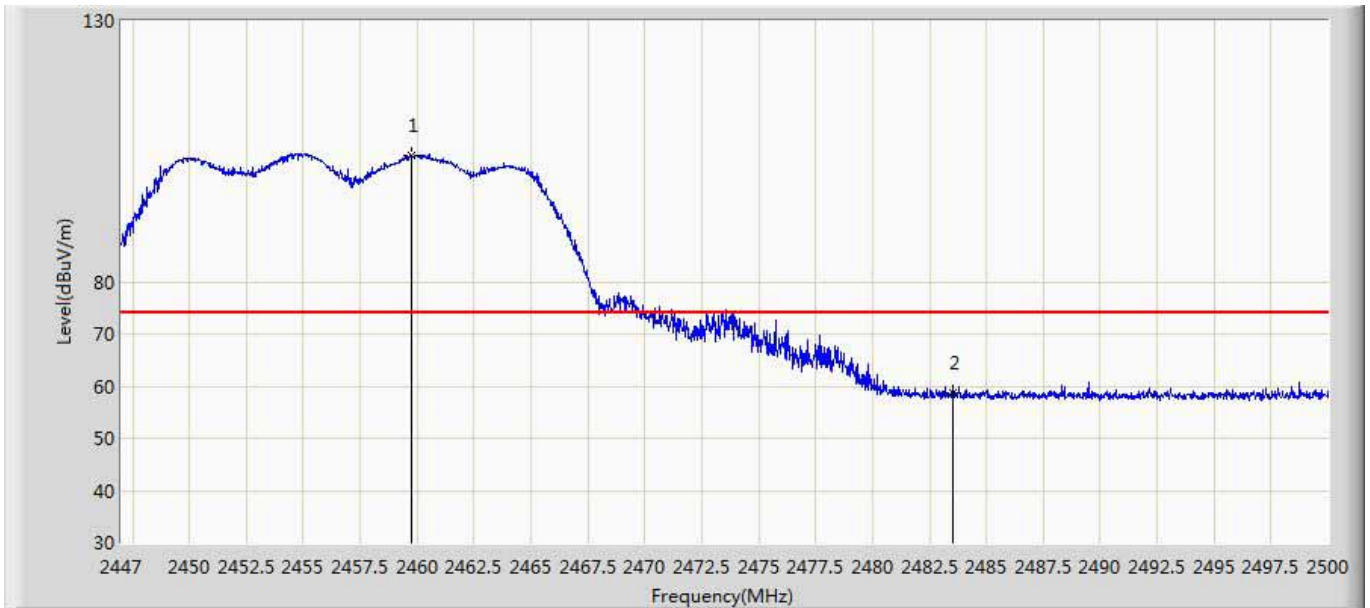
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	69.311	33.225	-4.689	74.000	36.086	PK
2	*	2415.125	116.551	80.391	42.551	74.000	36.160	PK

Site: AC5	Time: 2016/12/27 - 16:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2417 by 802.11g With antenna 0+1	



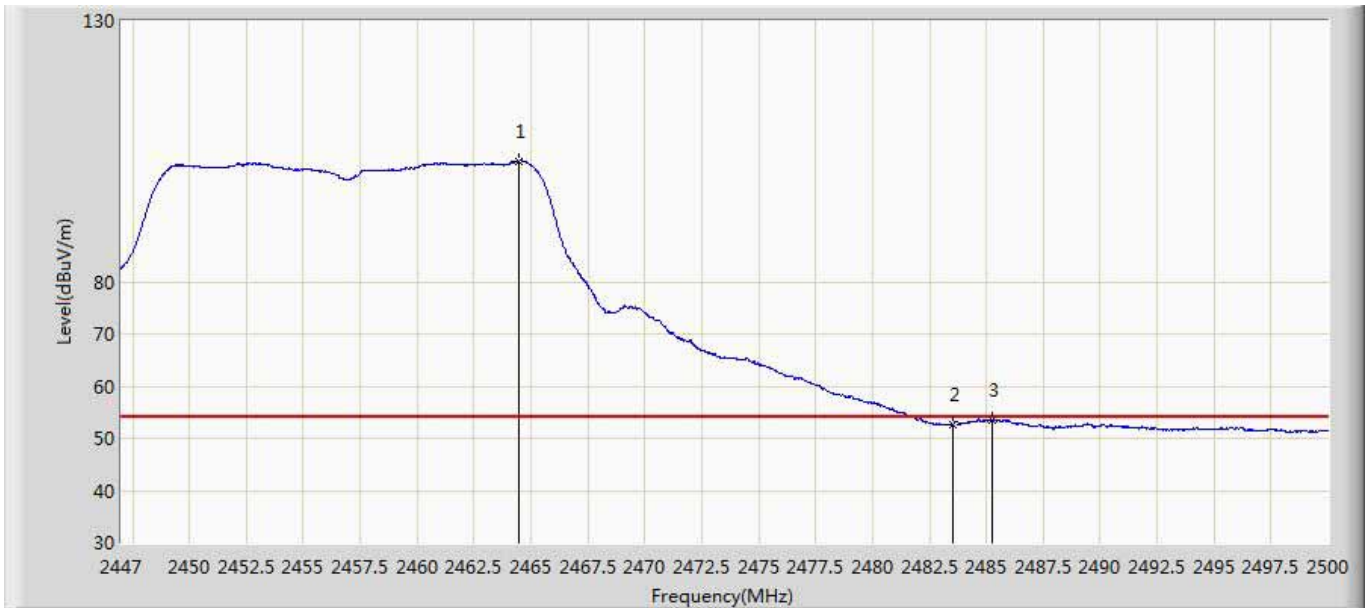
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	46.269	10.183	-7.731	54.000	36.086	AV
2	*	2414.072	93.521	57.361	39.521	54.000	36.160	AV

Site: AC5	Time: 2016/12/28 - 16:14
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2457 by 802.11g With antenna 0+1	



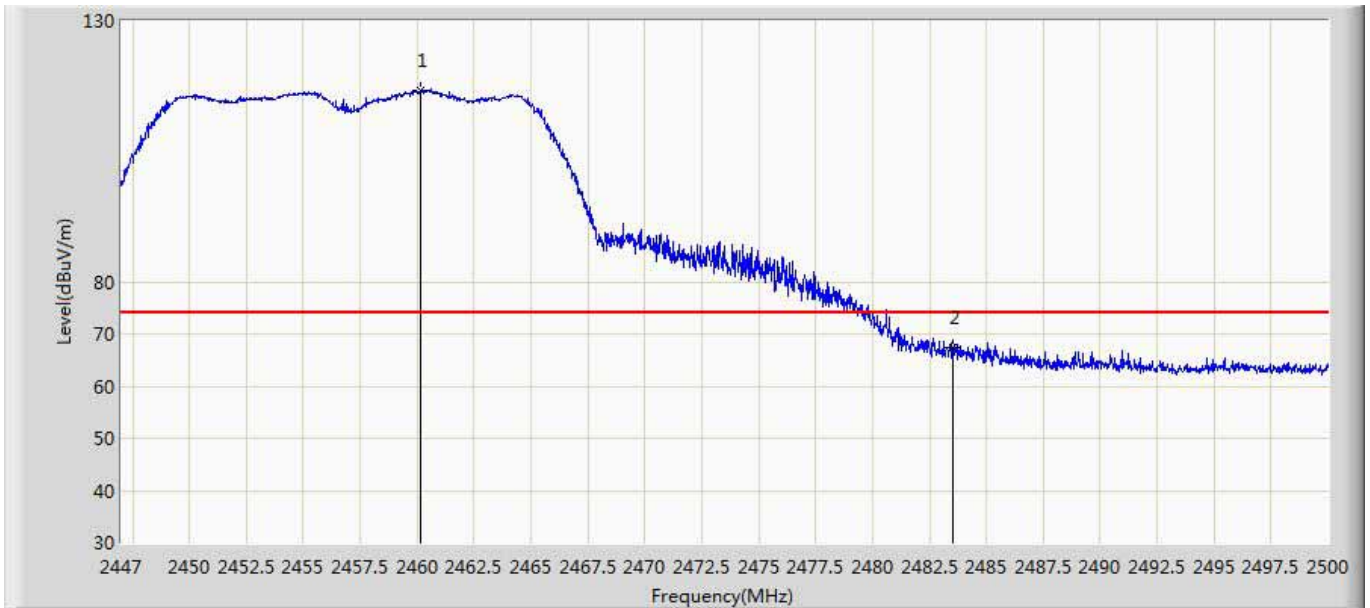
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2459.720	104.101	67.888	30.101	74.000	36.213	PK
2		2483.500	58.706	22.445	-15.294	74.000	36.261	PK

Site: AC5	Time: 2016/12/27 - 16:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2457 by 802.11g With antenna 0+1	



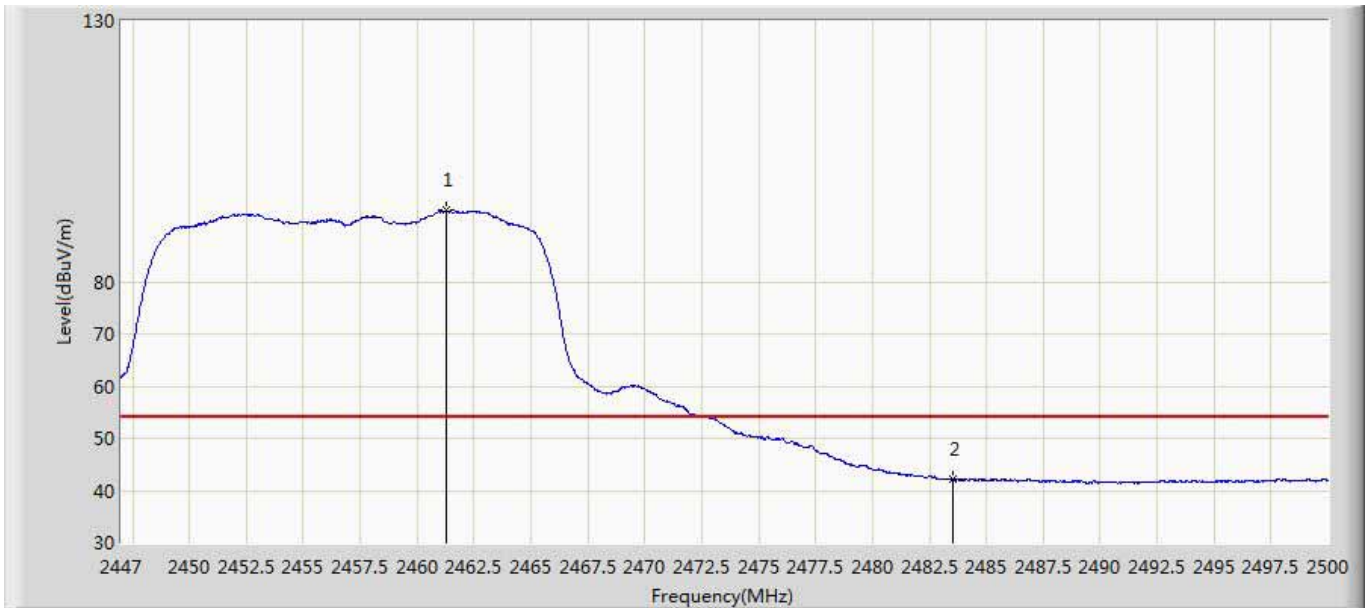
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2464.490	103.163	66.946	49.163	54.000	36.217	AV
2		2483.500	52.677	16.416	-1.323	54.000	36.261	AV
3		2485.266	53.499	17.232	-0.501	54.000	36.266	AV

Site: AC5	Time: 2016/12/27 - 16:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2457 by 802.11g With antenna 0+1	



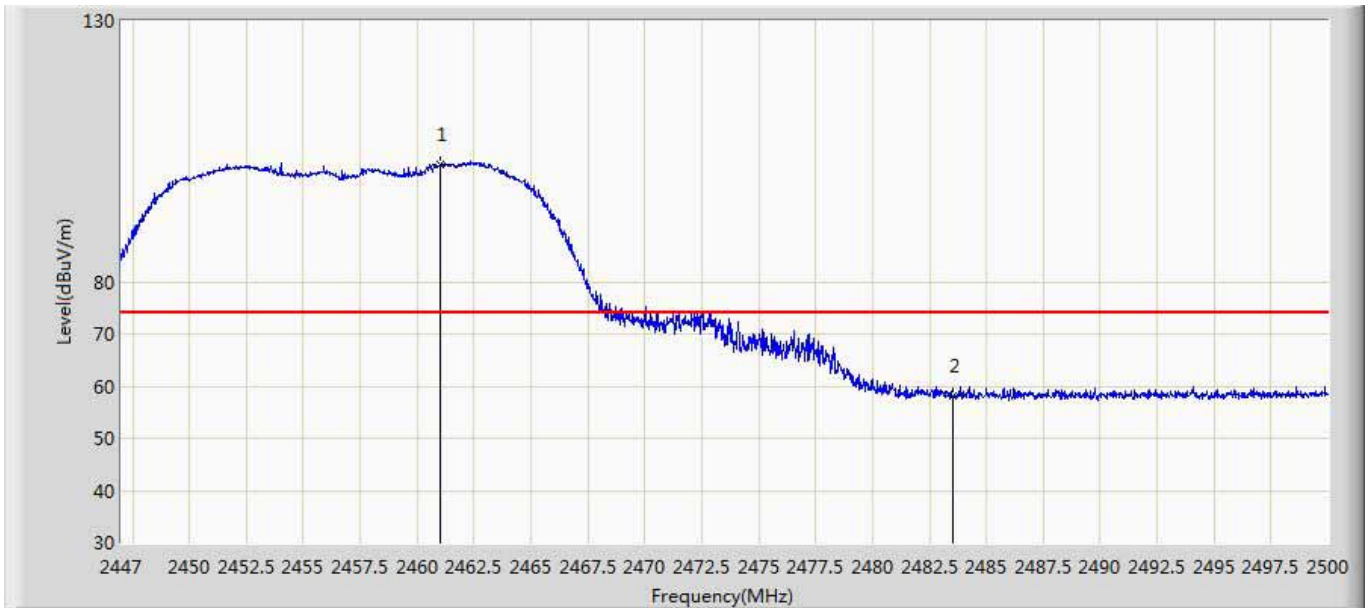
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2460.144	116.568	80.355	42.568	74.000	36.213	PK
2		2483.500	67.252	30.991	-6.748	74.000	36.261	PK

Site: AC5	Time: 2016/12/27 - 16:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2457 by 802.11g With antenna 0+1	



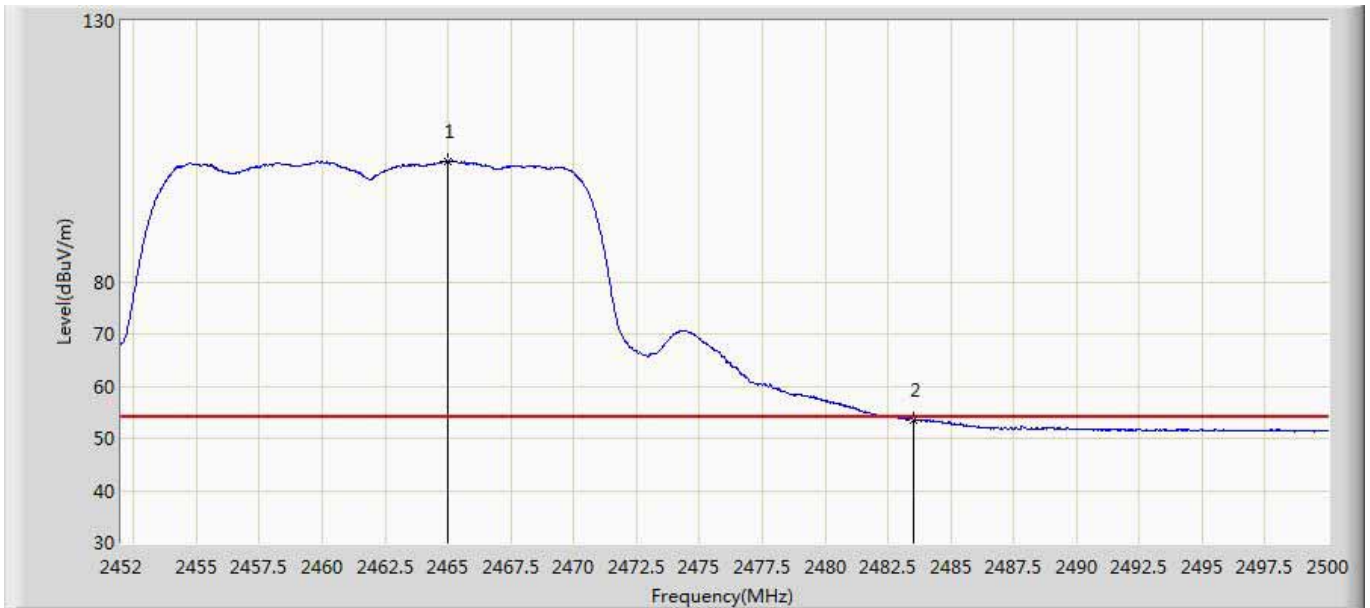
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2461.310	93.687	57.475	39.687	54.000	36.212	AV
2		2483.500	42.059	5.798	-11.941	54.000	36.261	AV

Site: AC5	Time: 2016/12/27 - 16:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2457 by 802.11g With antenna 0+1	



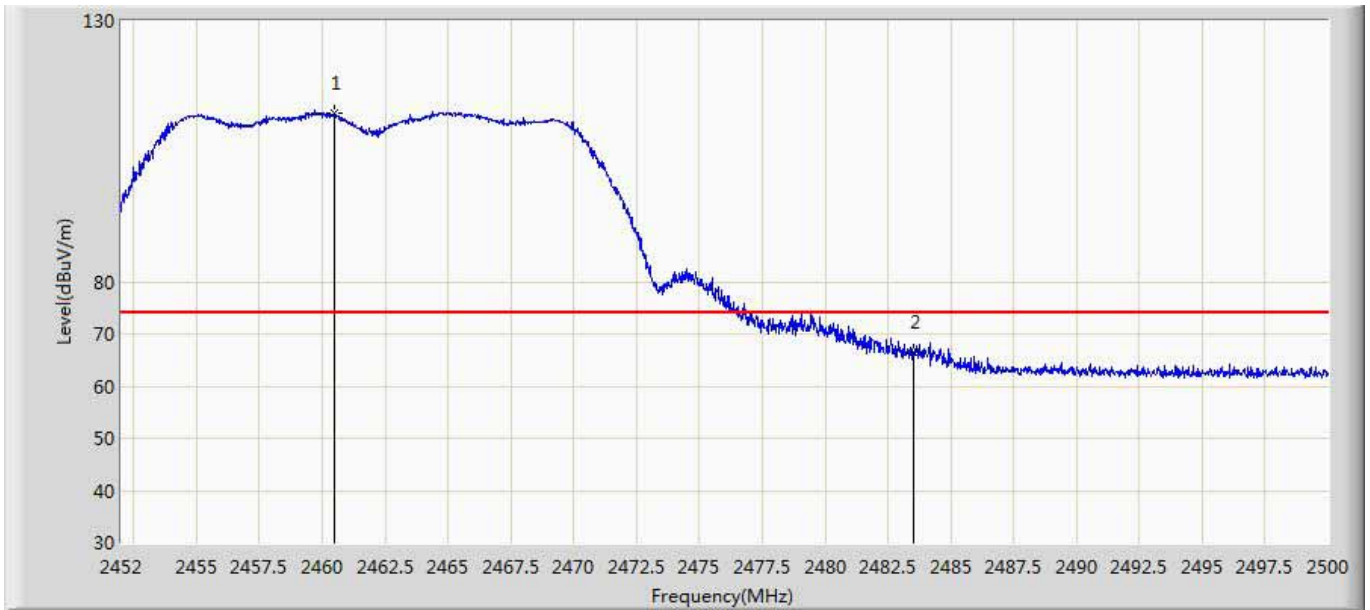
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2461.019	102.575	66.363	28.575	74.000	36.213	PK
2		2483.500	58.129	21.867	-15.871	74.000	36.261	PK

Site: AC5	Time: 2016/12/23 - 11:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2462 by 802.11g With antenna 0+1	



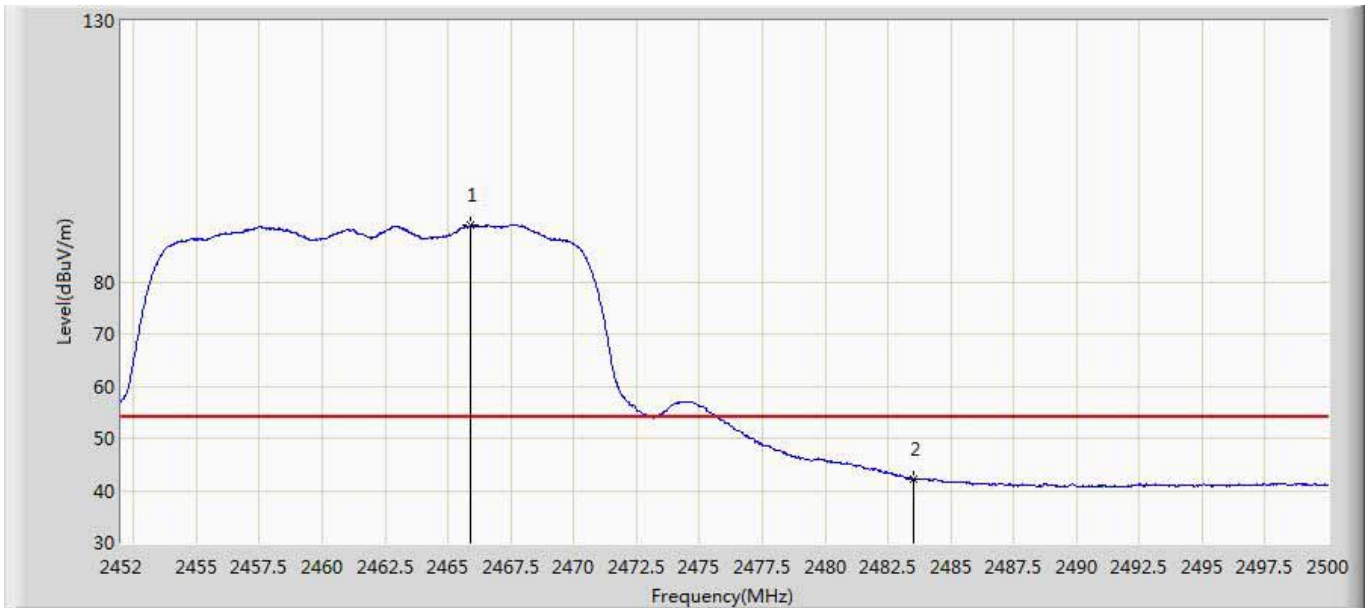
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2464.984	103.139	66.921	49.139	54.000	36.219	AV
2		2483.500	53.578	17.317	-0.422	54.000	36.261	AV

Site: AC5	Time: 2016/12/23 - 11:50
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2462 by 802.11g With antenna 0+1	



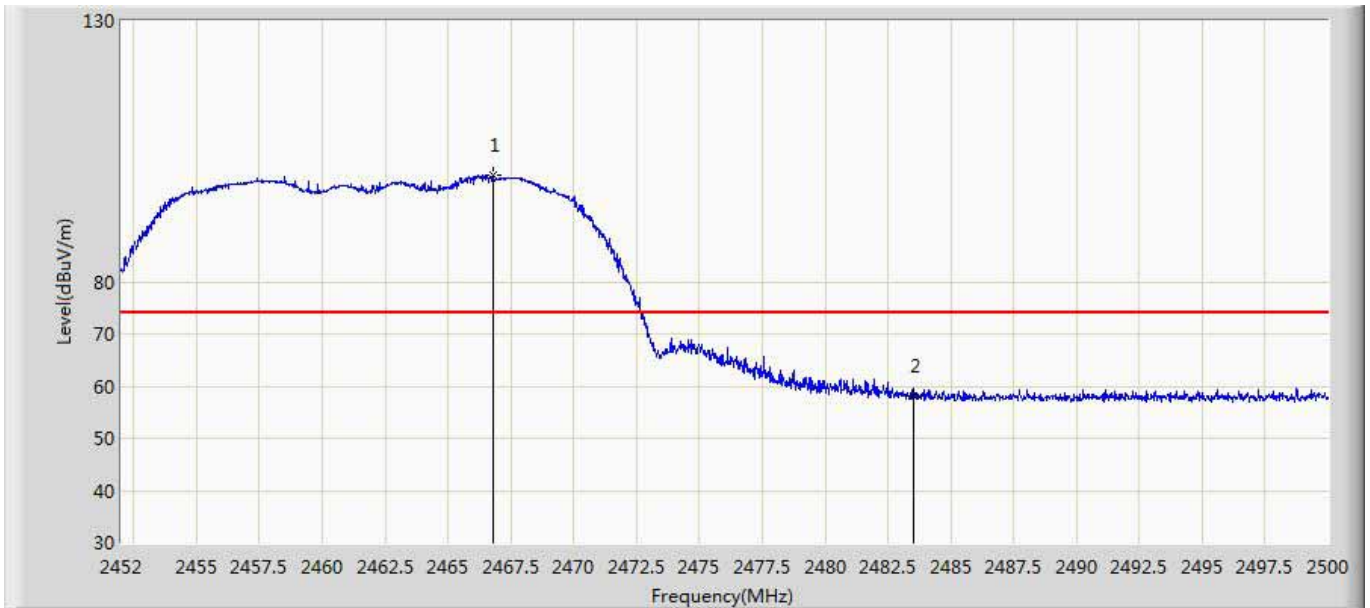
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2460.496	112.409	76.196	38.409	74.000	36.212	PK
2		2483.500	66.419	30.158	-7.581	74.000	36.261	PK

Site: AC5	Time: 2016/12/27 - 16:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2462 by 802.11g With antenna 0+1	



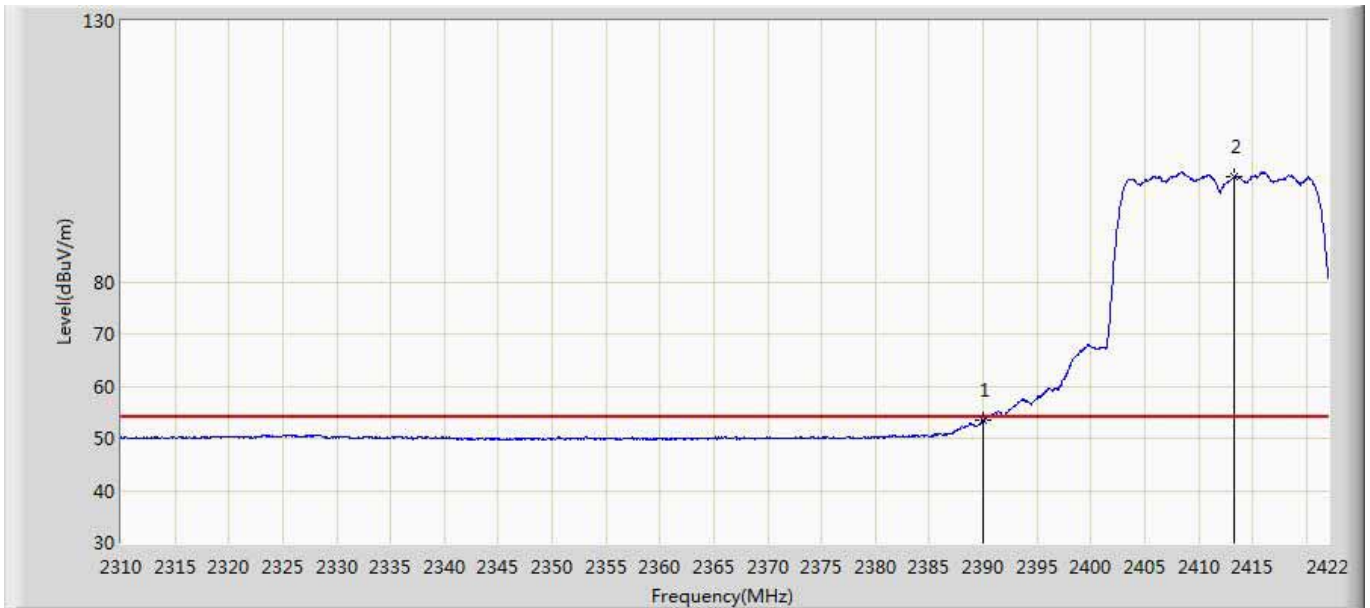
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2465.920	90.839	54.619	36.839	54.000	36.220	AV
2		2483.500	42.239	5.978	-11.761	54.000	36.261	AV

Site: AC5	Time: 2016/12/27 - 16:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2462 by 802.11g With antenna 0+1	



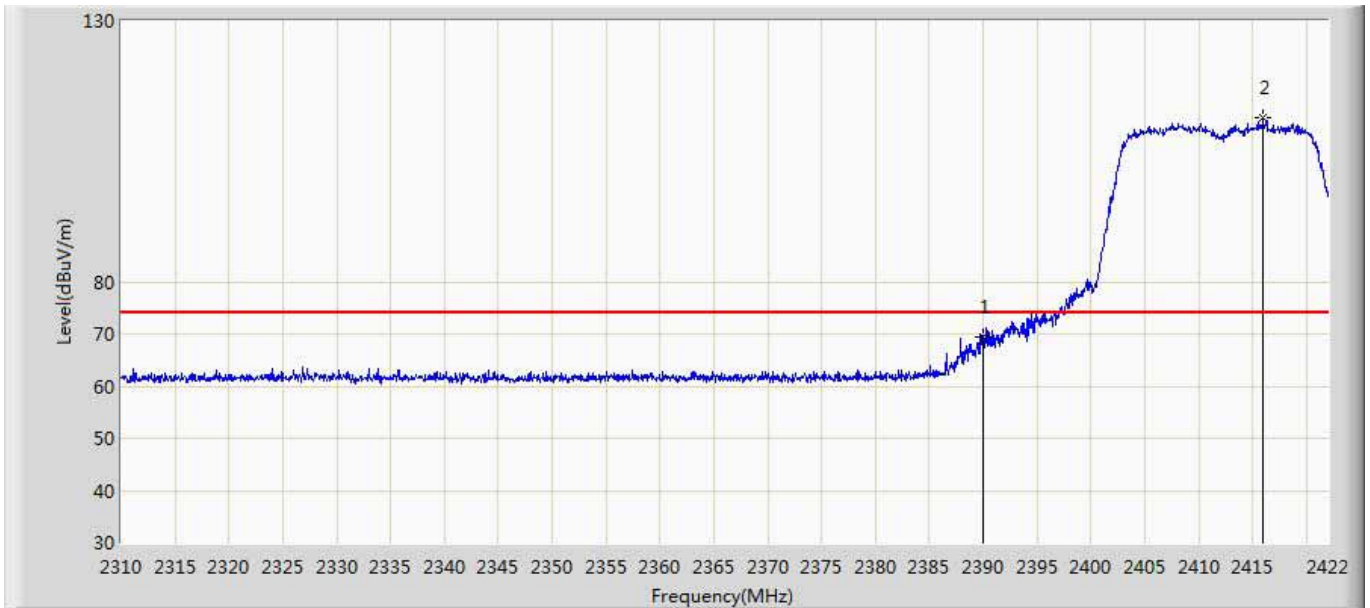
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2466.808	100.376	64.154	26.376	74.000	36.222	PK
2		2483.500	58.203	21.941	-15.797	74.000	36.261	PK

Site: AC5	Time: 2016/12/23 - 11:51
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2412 by 802.11n20 With antenna 0+1	



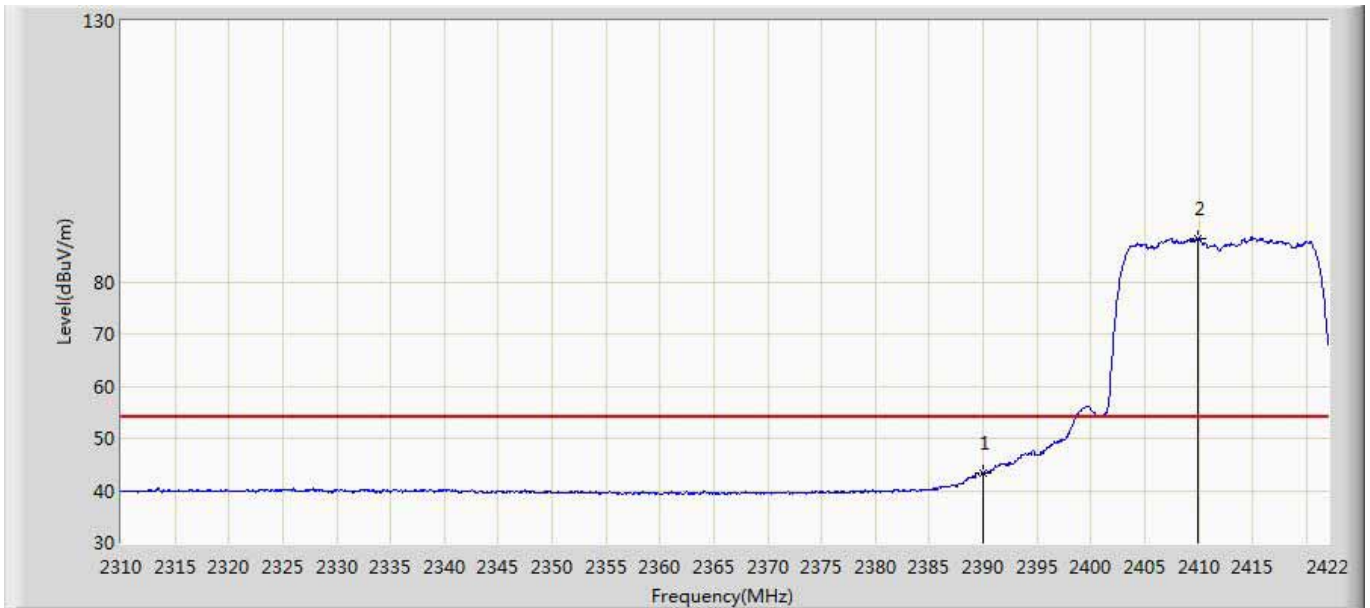
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.545	17.459	-0.455	54.000	36.086	AV
2	*	2413.320	100.122	63.962	46.122	54.000	36.160	AV

Site: AC5	Time: 2016/12/23 - 11:54
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2412 by 802.11n20 With antenna 0+1	



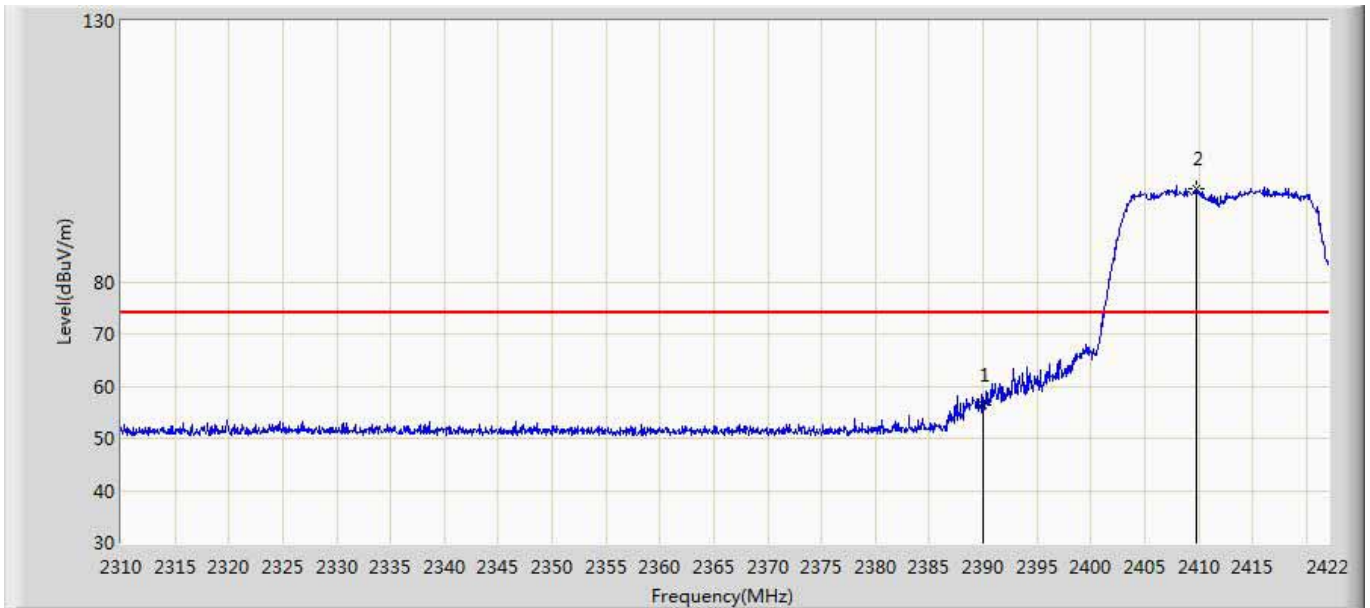
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	69.555	33.469	-4.445	74.000	36.086	PK
2	*	2415.952	111.323	75.162	37.323	74.000	36.161	PK

Site: AC5	Time: 2016/12/27 - 16:50
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2412 by 802.11n20 With antenna 0+1	



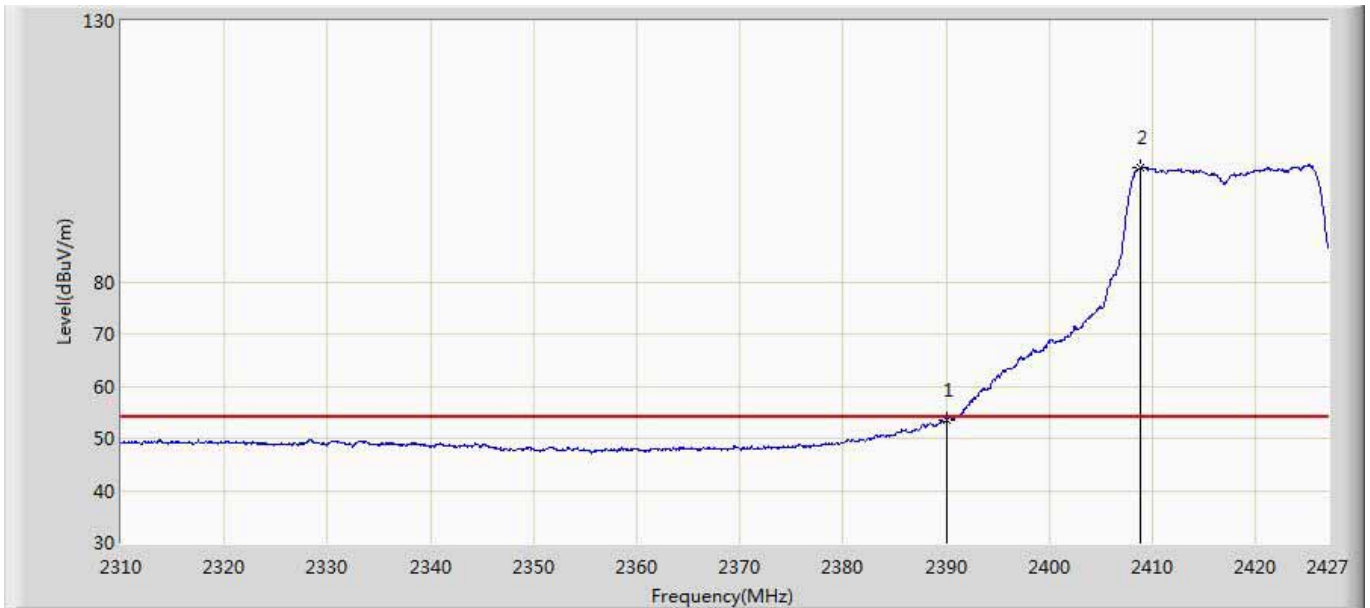
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	43.233	7.147	-10.767	54.000	36.086	AV
2	*	2409.904	88.241	52.086	34.241	54.000	36.155	AV

Site: AC5	Time: 2016/12/27 - 16:53
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2412 by 802.11n20 With antenna 0+1	



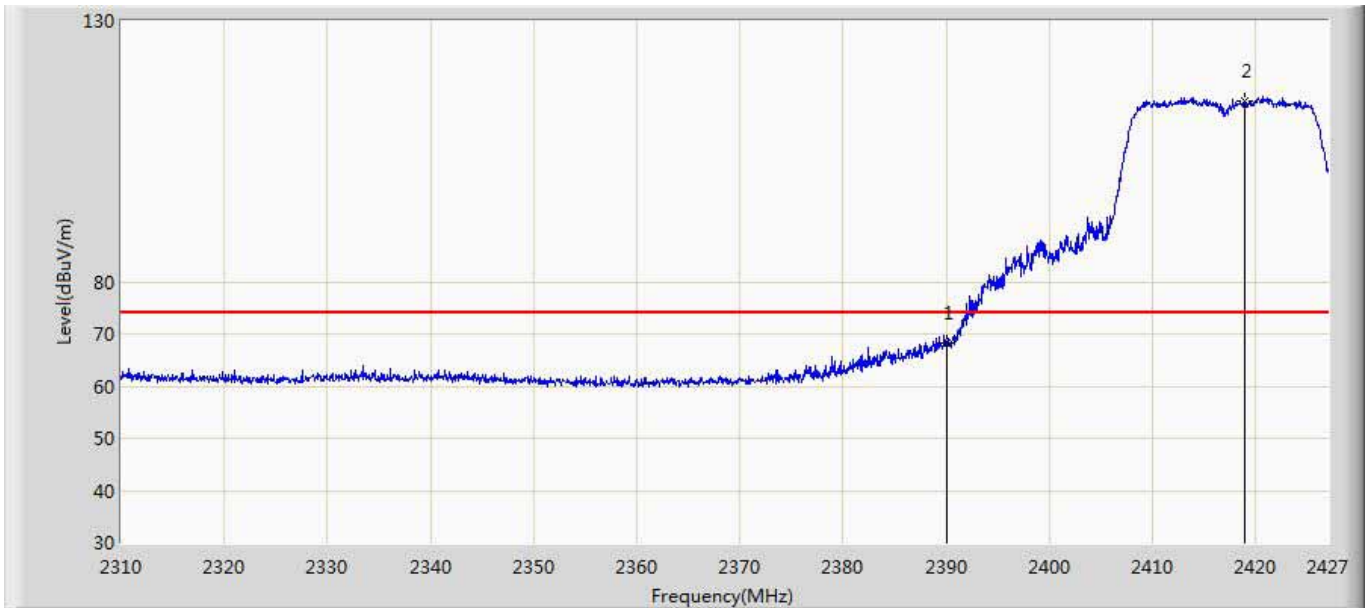
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	56.285	20.199	-17.715	74.000	36.086	PK
2	*	2409.792	97.804	61.650	23.804	74.000	36.155	PK

Site: AC5	Time: 2016/12/27 - 16:54
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2417 by 802.11n20 With antenna 0+1	



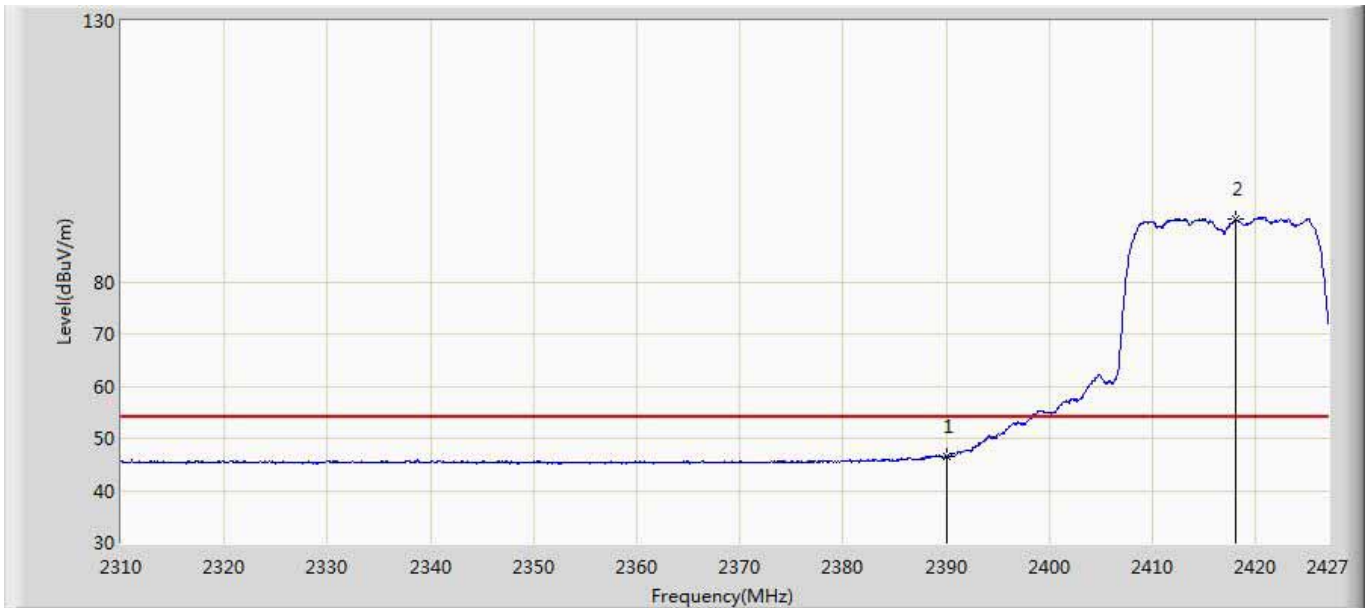
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.428	17.342	-0.572	54.000	36.086	AV
2	*	2408.806	101.902	65.751	47.902	54.000	36.150	AV

Site: AC5	Time: 2016/12/27 - 17:05
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2417 by 802.11n20 With antenna 0+1	



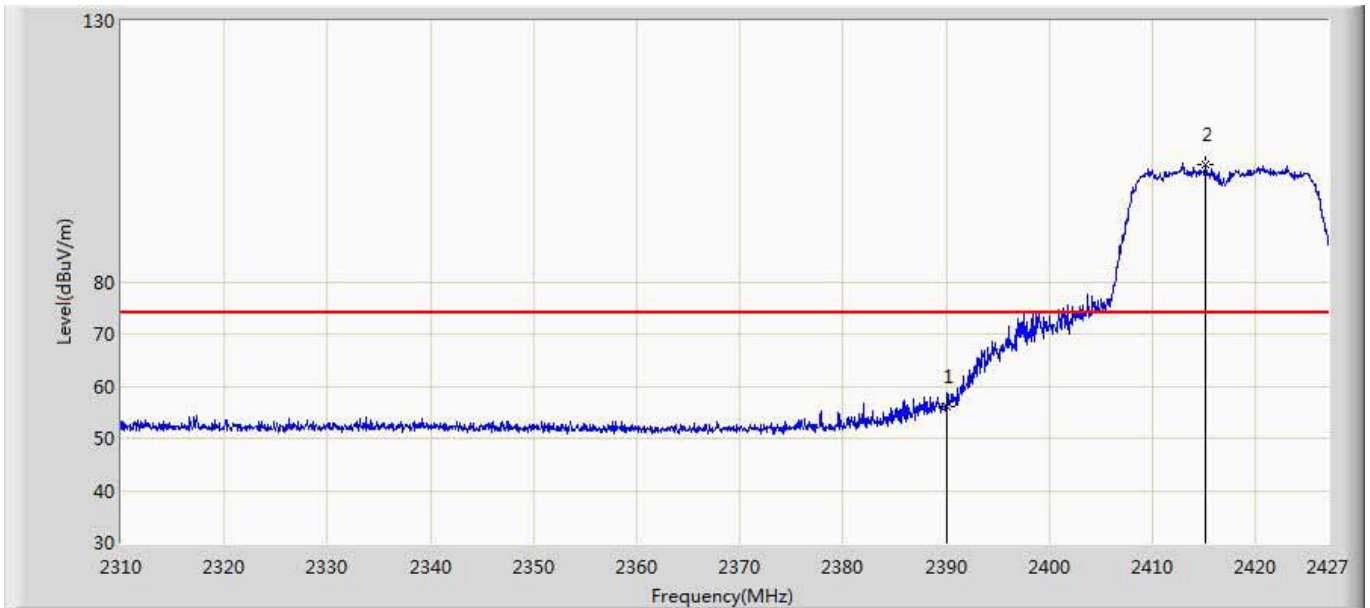
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	68.269	32.183	-5.731	74.000	36.086	PK
2	*	2418.986	114.684	78.522	40.684	74.000	36.162	PK

Site: AC5	Time: 2016/12/27 - 17:07
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2417 by 802.11n20 With antenna 0+1	



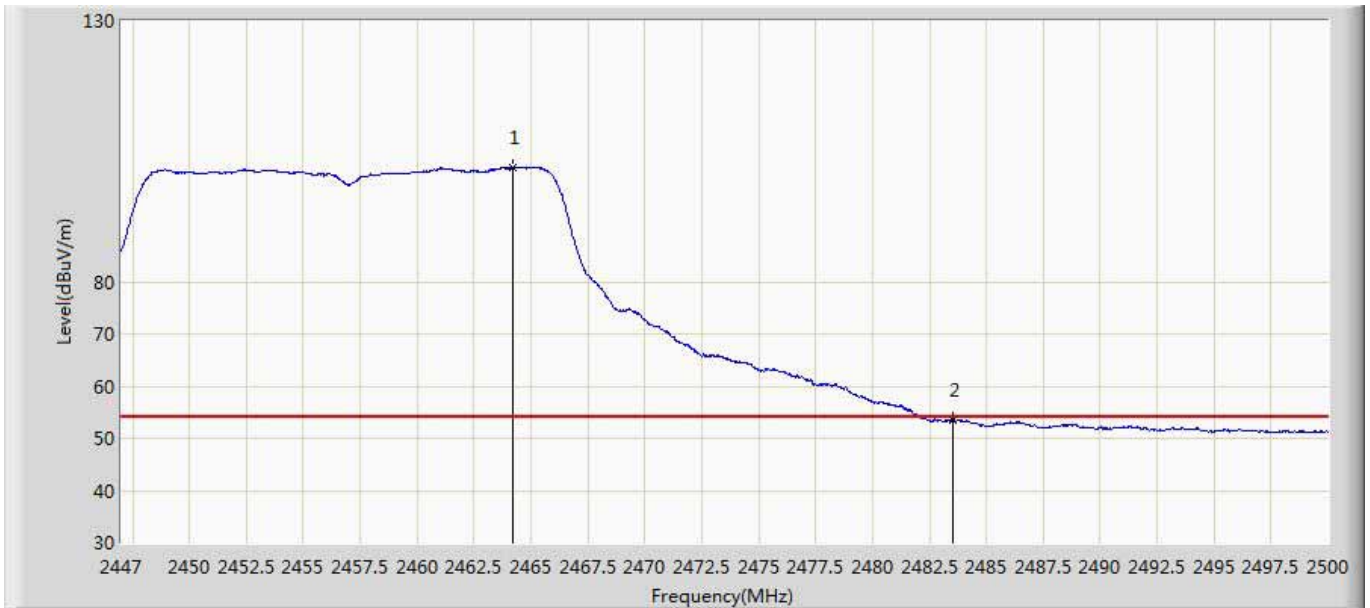
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	46.633	10.547	-7.367	54.000	36.086	AV
2	*	2418.108	92.119	55.957	38.119	54.000	36.162	AV

Site: AC5	Time: 2016/12/27 - 17:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2417 by 802.11n20 With antenna 0+1	



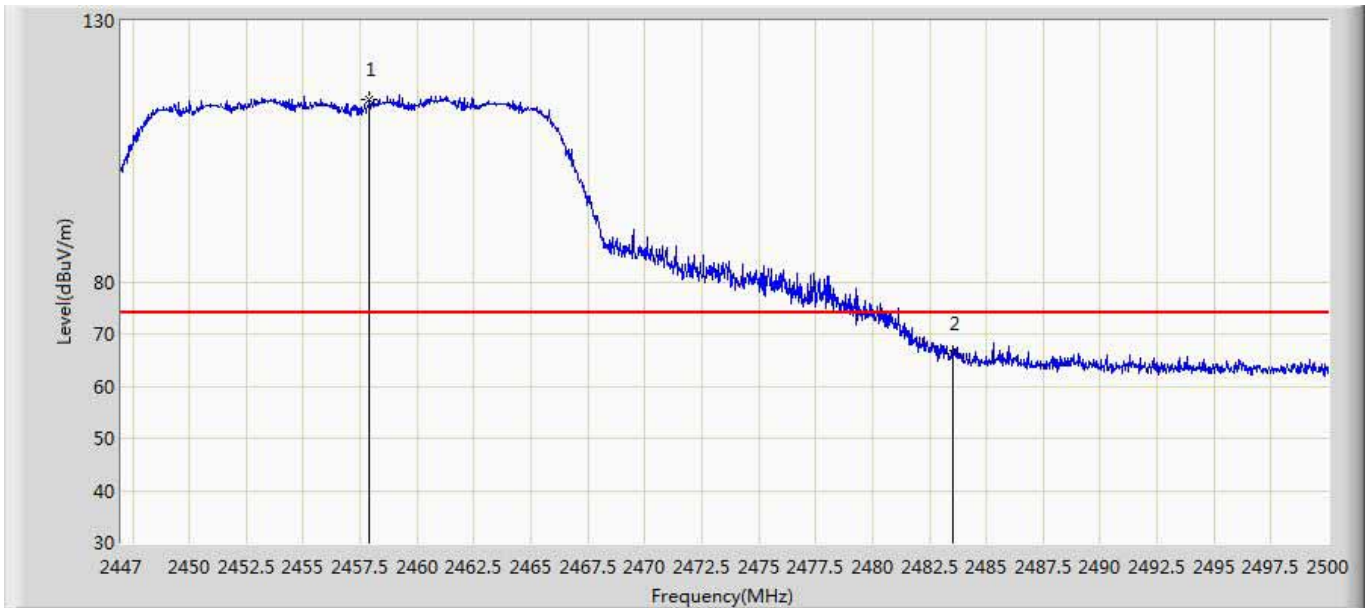
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	56.166	20.080	-17.834	74.000	36.086	PK
2	*	2415.066	102.353	66.193	28.353	74.000	36.160	PK

Site: AC5	Time: 2016/12/27 - 17:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2457 by 802.11n20 With antenna 0+1	



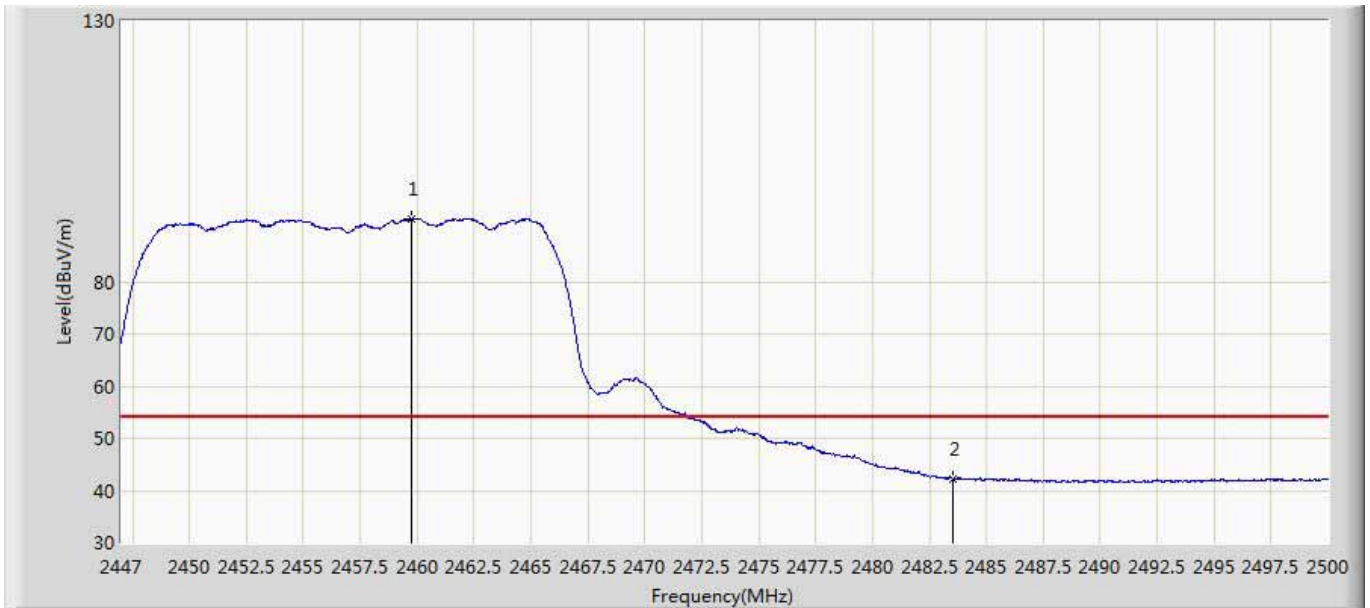
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2464.225	101.902	65.685	47.902	54.000	36.217	AV
2		2483.500	53.560	17.299	-0.440	54.000	36.261	AV

Site: AC5	Time: 2016/12/27 - 17:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2457 by 802.11n20 With antenna 0+1	



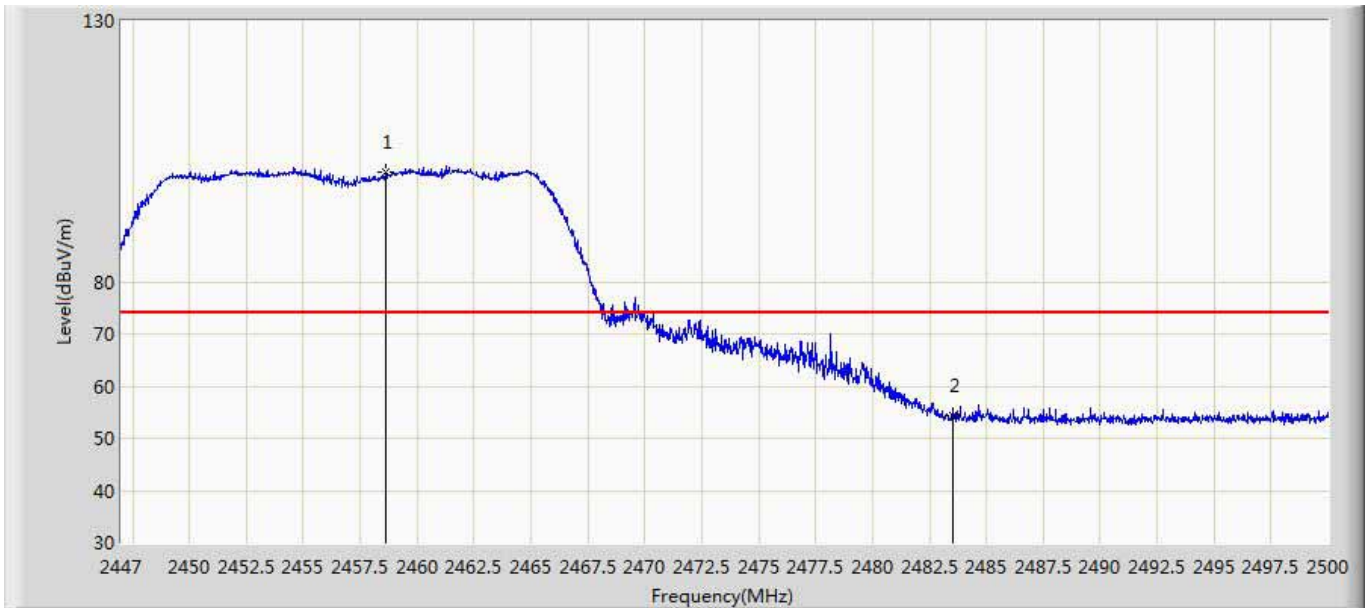
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2457.892	114.881	78.667	40.881	74.000	36.214	PK
2		2483.500	66.353	30.092	-7.647	74.000	36.261	PK

Site: AC5	Time: 2016/12/27 - 17:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2457 by 802.11n20 With antenna 0+1	



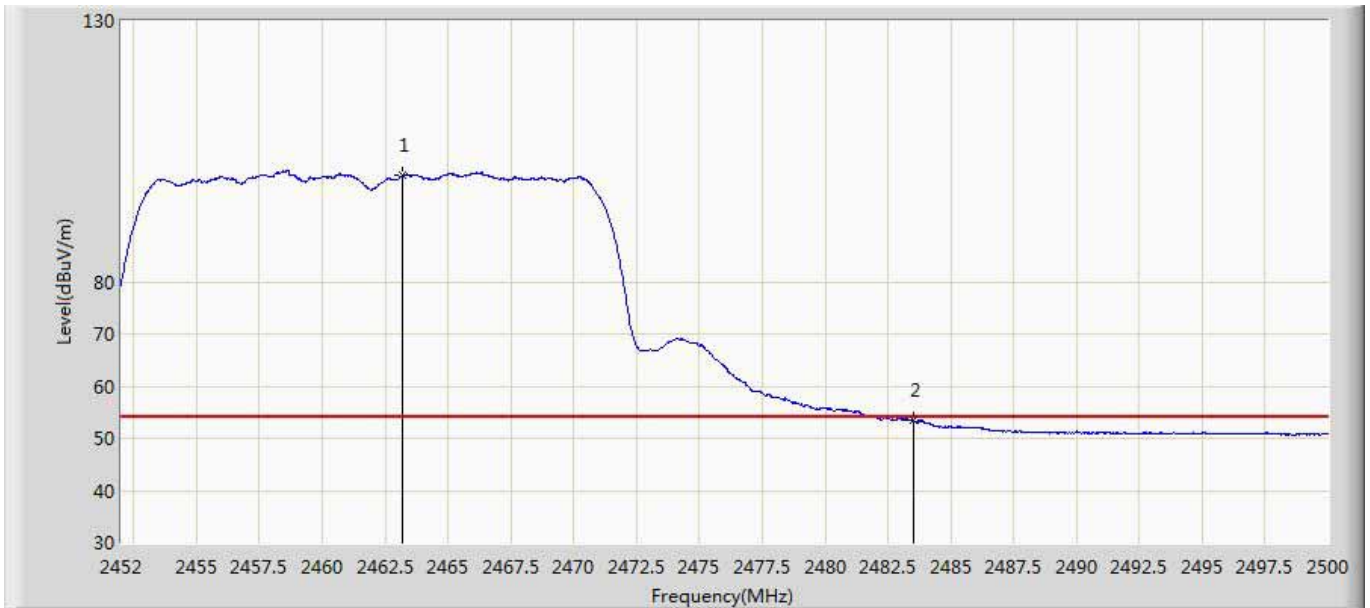
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2459.747	92.040	55.827	38.040	54.000	36.213	AV
2		2483.500	42.316	6.054	-11.684	54.000	36.261	AV

Site: AC5	Time: 2016/12/27 - 17:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2457 by 802.11n20 With antenna 0+1	



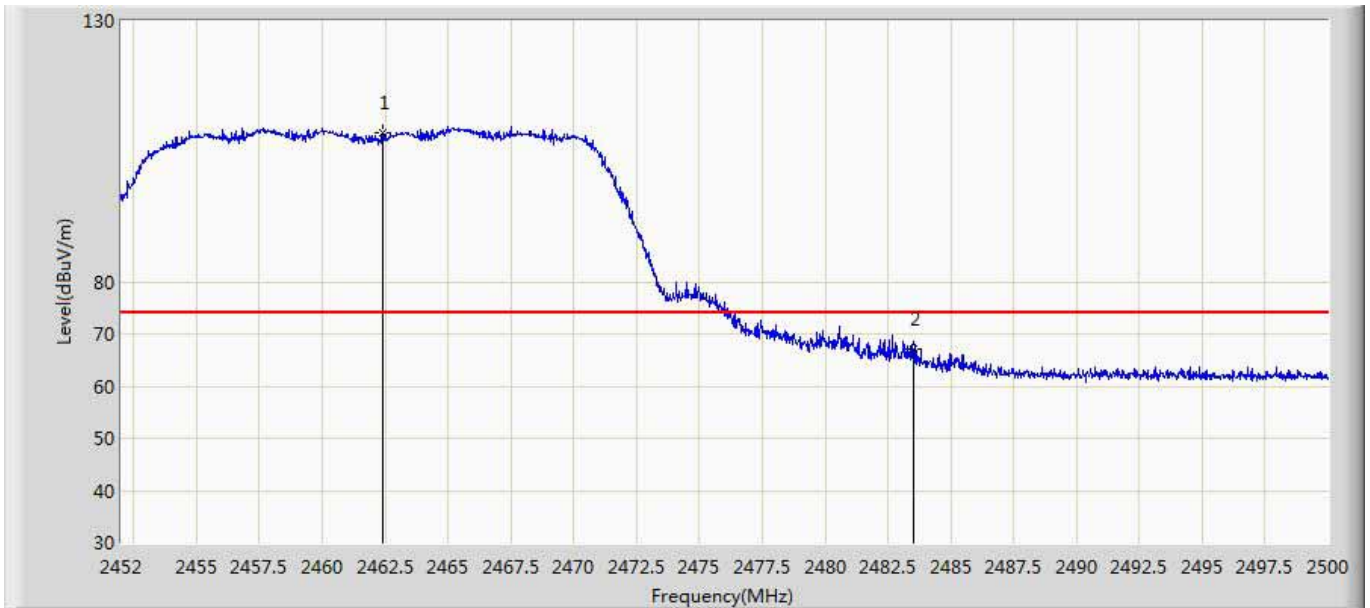
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2458.634	100.942	64.728	26.942	74.000	36.214	PK
2		2483.500	54.252	17.991	-19.748	74.000	36.261	PK

Site: AC5	Time: 2016/12/23 - 11:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2462 by 802.11n20 With antenna 0+1	



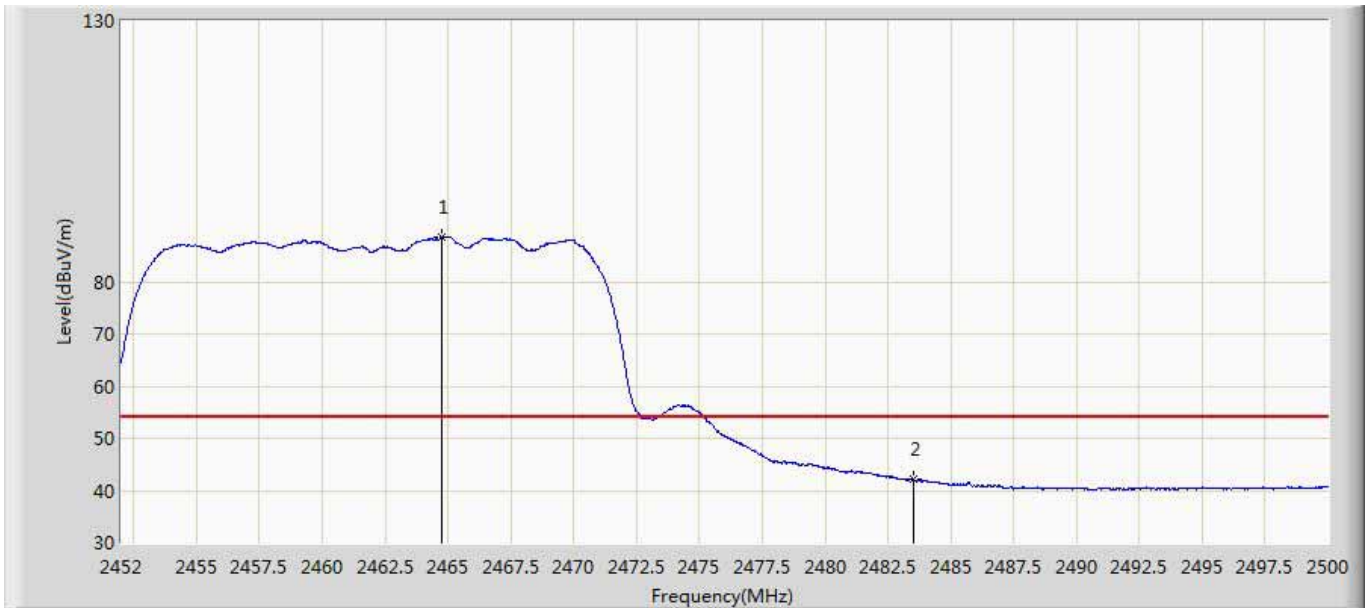
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2463.208	100.457	64.242	46.457	54.000	36.214	AV
2		2483.500	53.376	17.115	-0.624	54.000	36.261	AV

Site: AC5	Time: 2016/12/23 - 11:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2462 by 802.11n20 With antenna 0+1	



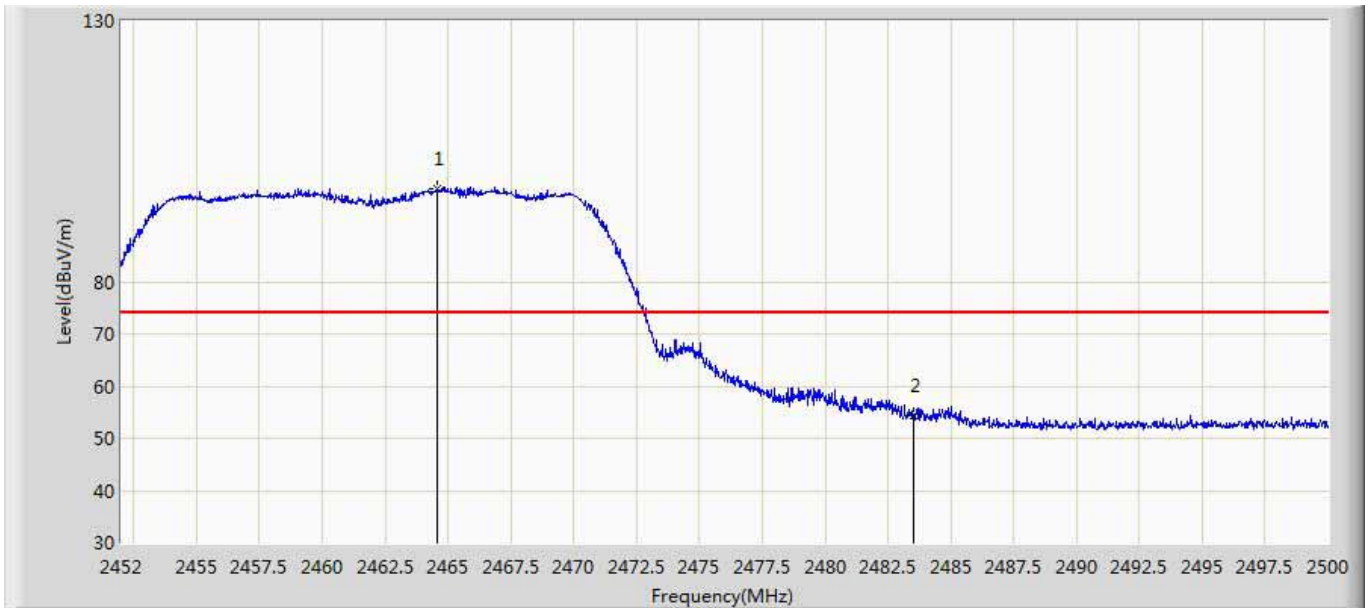
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2462.416	108.423	72.210	34.423	74.000	36.213	PK
2		2483.500	67.037	30.776	-6.963	74.000	36.261	PK

Site: AC5	Time: 2016/12/27 - 17:31
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2462 by 802.11n20 With antenna 0+1	



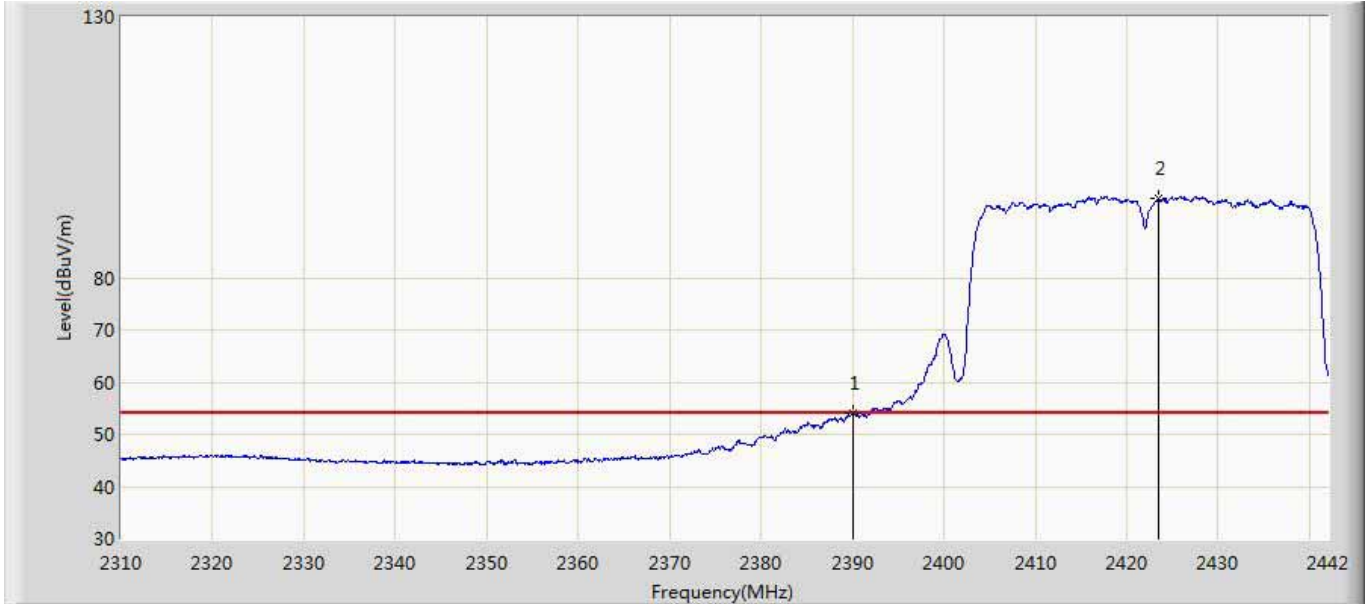
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2464.744	88.576	52.358	34.576	54.000	36.217	AV
2		2483.500	42.061	5.800	-11.939	54.000	36.261	AV

Site: AC5	Time: 2016/12/27 - 17:33
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2462 by 802.11n20 With antenna 0+1	



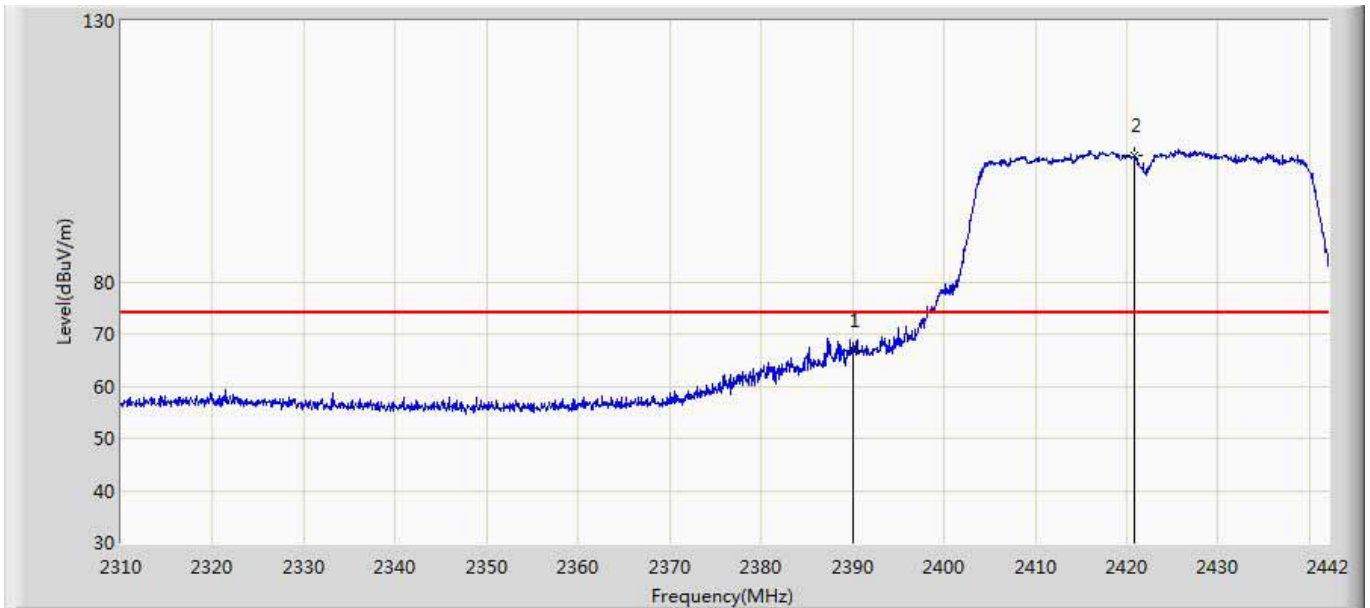
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2464.576	97.892	61.675	23.892	74.000	36.217	PK
2		2483.500	54.225	17.964	-19.775	74.000	36.261	PK

Site: AC5	Time: 2016/12/23 - 09:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2422 by 802.11n40 With antenna 0+1	



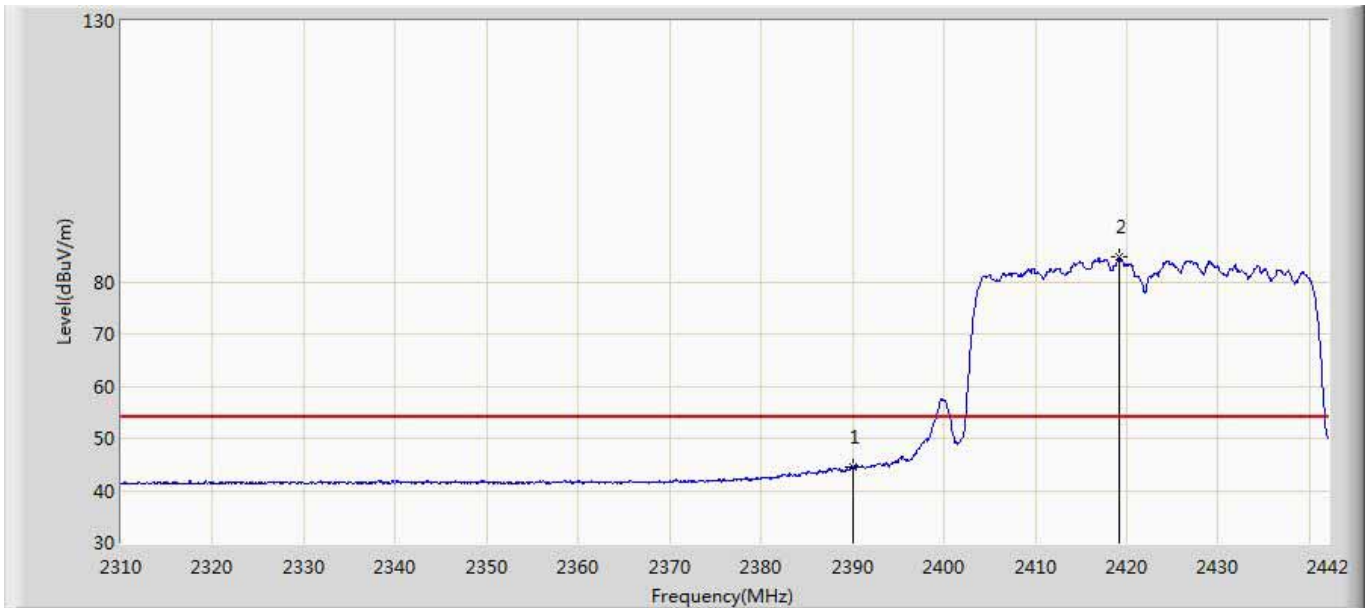
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.918	17.832	-0.082	54.000	36.086	AV
2	*	2423.454	95.203	59.040	41.203	54.000	36.163	AV

Site: AC5	Time: 2016/12/23 - 10:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2422 by 802.11n40 With antenna 0+1	



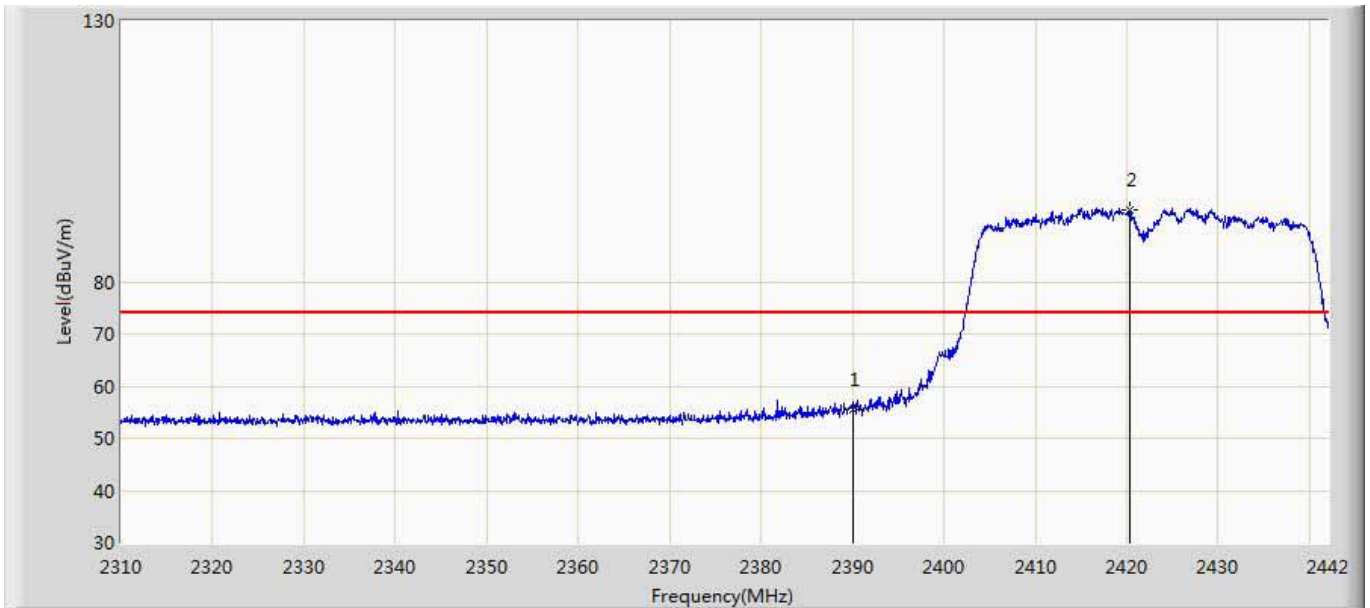
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	66.928	30.842	-7.072	74.000	36.086	PK
2	*	2420.748	104.118	67.956	30.118	74.000	36.162	PK

Site: AC5	Time: 2016/12/23 - 10:10
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2422 by 802.11n40 With antenna 0+1	



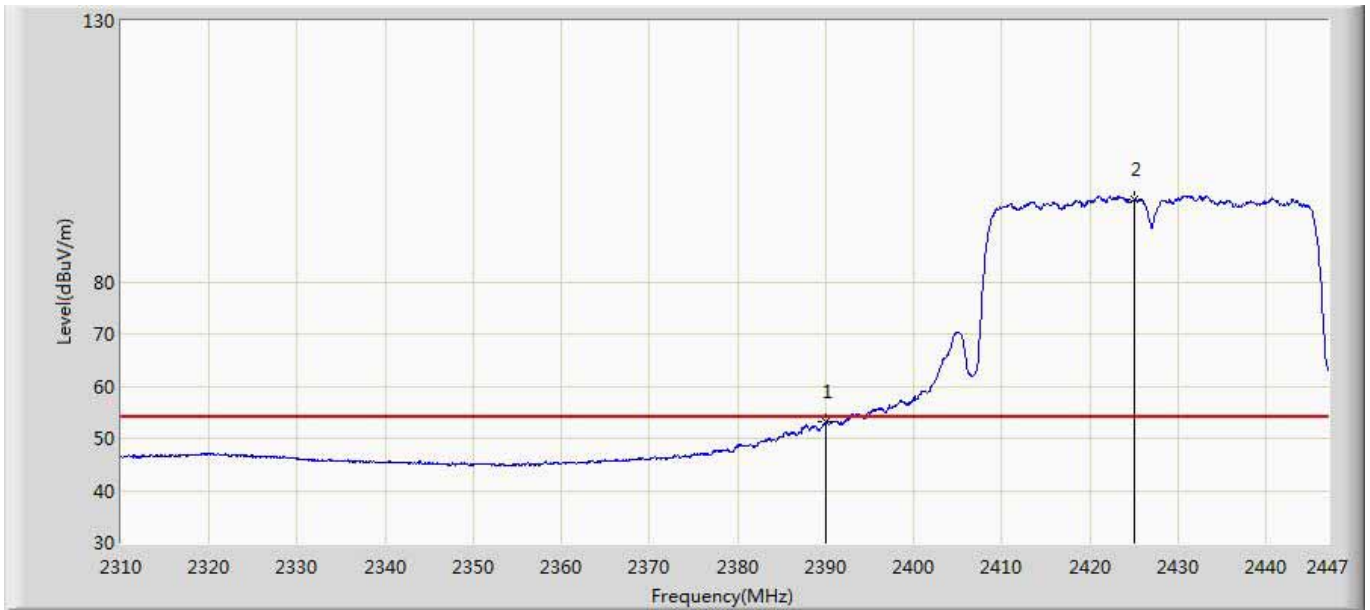
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	44.448	8.362	-9.552	54.000	36.086	AV
2	*	2419.230	84.679	48.517	30.679	54.000	36.162	AV

Site: AC5	Time: 2016/12/23 - 10:12
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2422 by 802.11n40 With antenna 0+1	



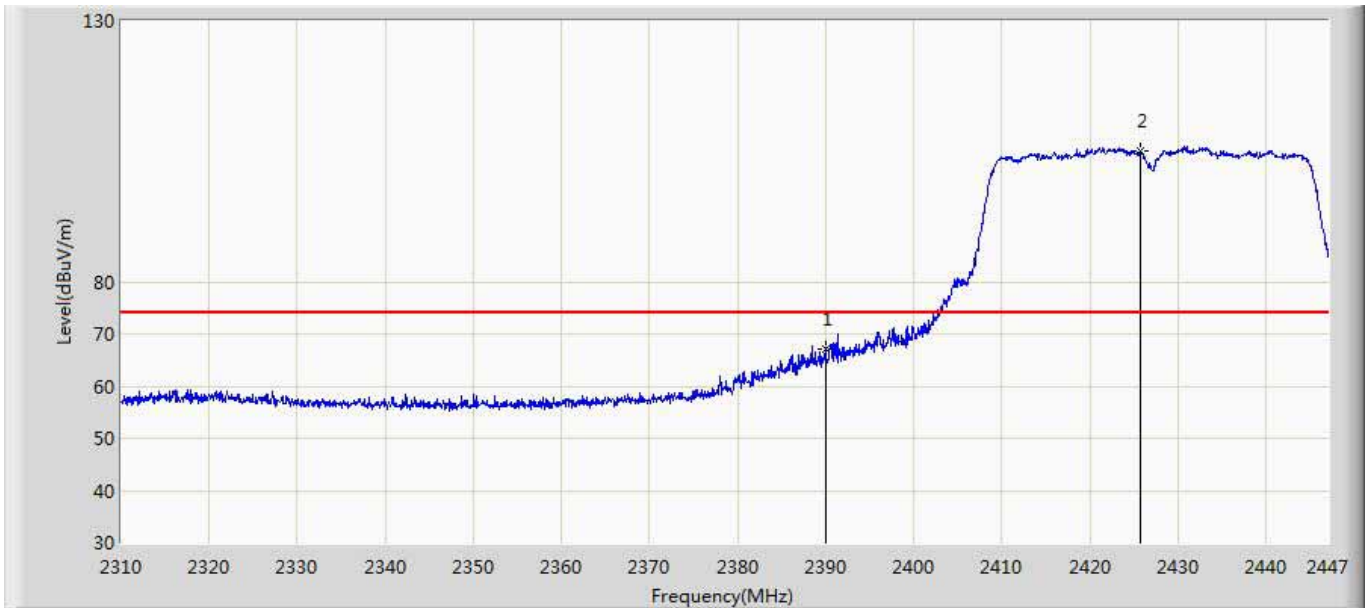
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	55.601	19.515	-18.399	74.000	36.086	PK
2	*	2420.352	93.870	57.708	19.870	74.000	36.163	PK

Site: AC5	Time: 2016/12/23 - 10:15
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2427 by 802.11n40 With antenna 0+1	



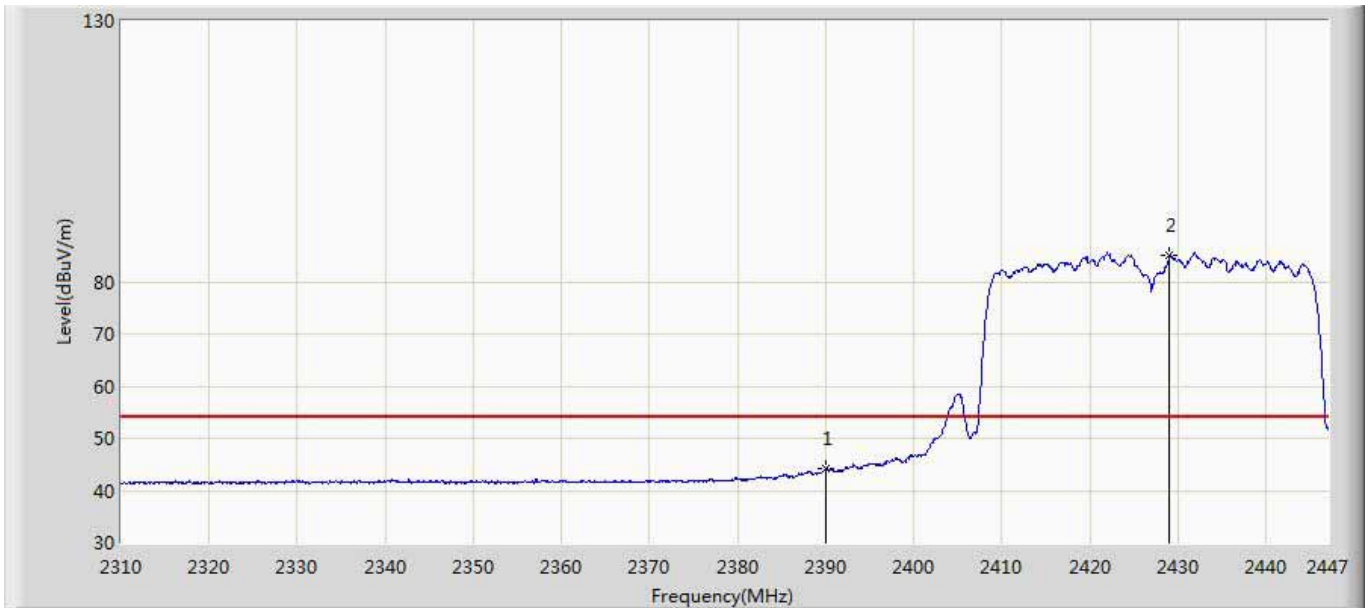
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.322	17.236	-0.678	54.000	36.086	AV
2	*	2425.080	95.909	59.745	41.909	54.000	36.164	AV

Site: AC5	Time: 2016/12/23 - 10:18
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2427 by 802.11n40 With antenna 0+1	



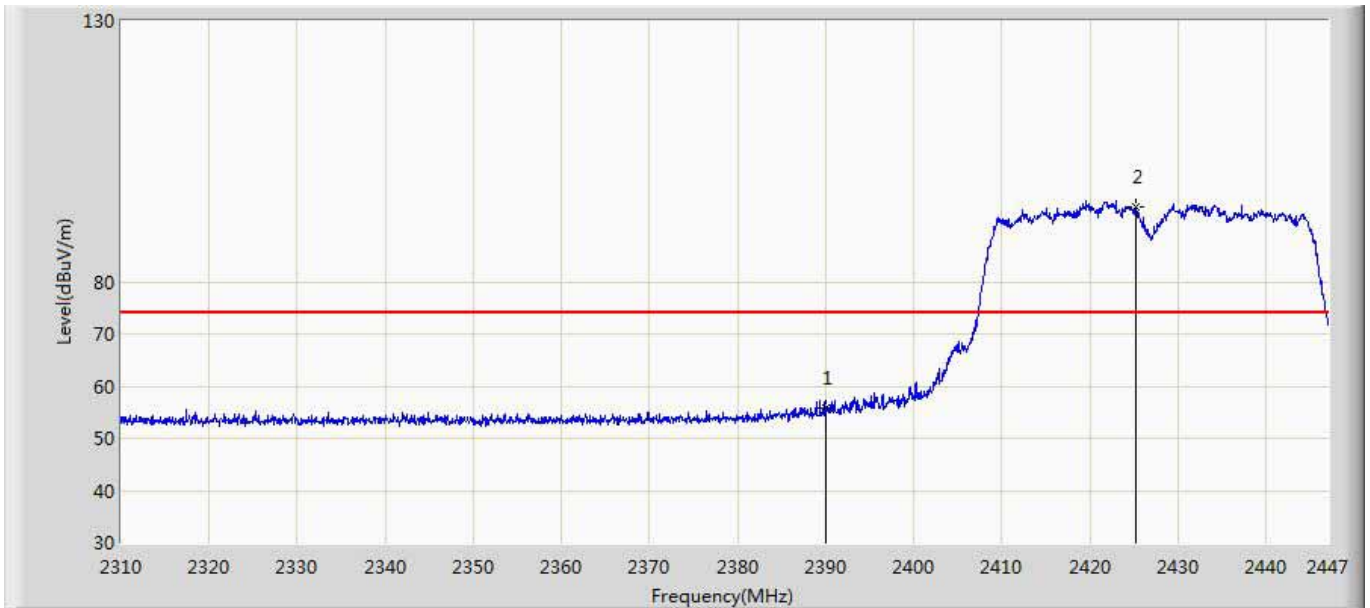
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	67.118	31.032	-6.882	74.000	36.086	PK
2	*	2425.697	105.109	68.945	31.109	74.000	36.164	PK

Site: AC5	Time: 2016/12/23 - 10:20
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2427 by 802.11n40 With antenna 0+1	



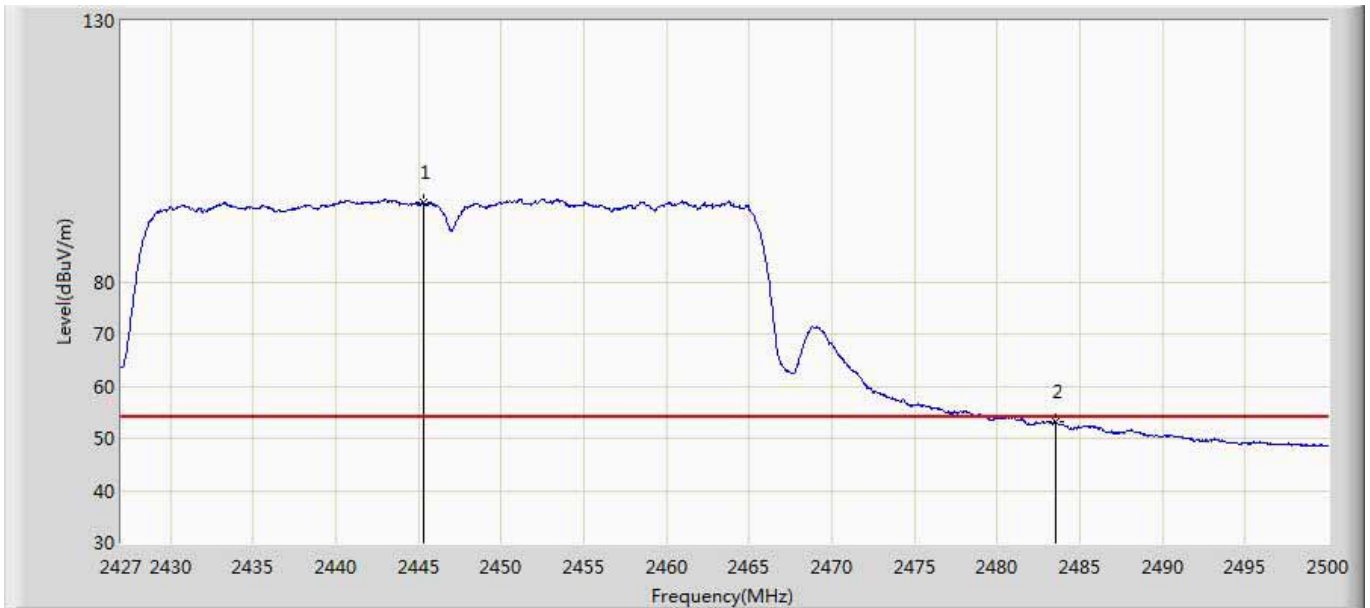
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	44.069	7.983	-9.931	54.000	36.086	AV
2	*	2429.053	85.170	49.002	31.170	54.000	36.168	AV

Site: AC5	Time: 2016/12/23 - 10:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2427 by 802.11n40 With antenna 0+1	



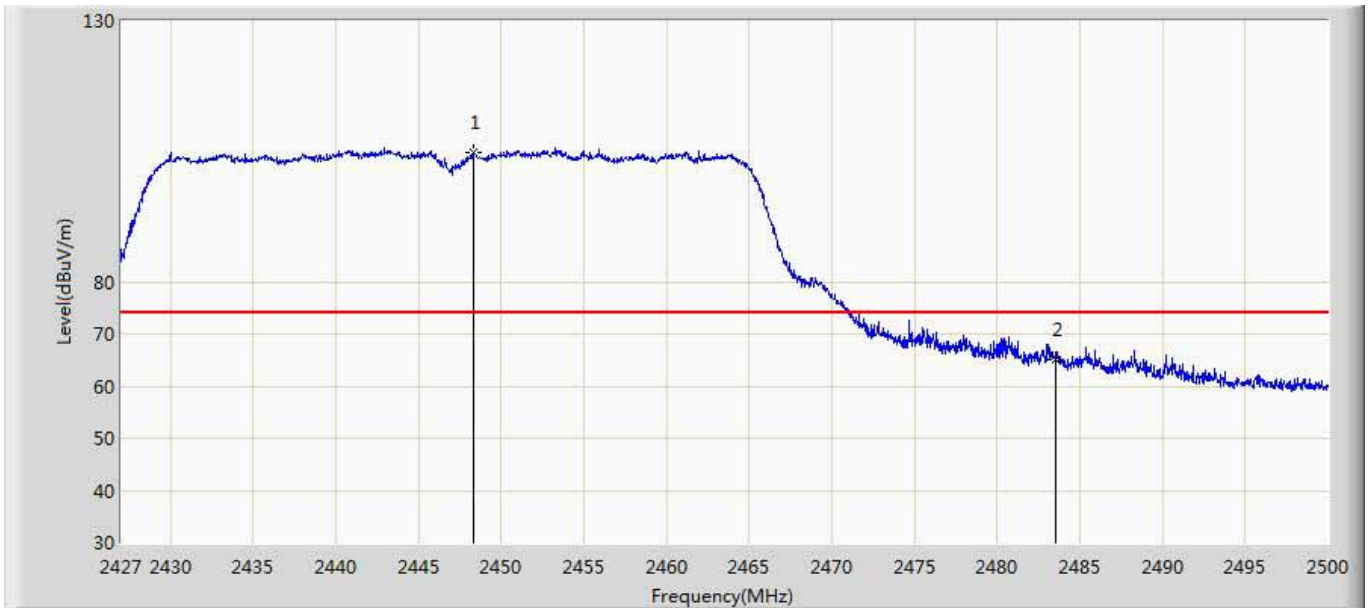
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	55.657	19.571	-18.343	74.000	36.086	PK
2	*	2425.148	94.309	58.145	20.309	74.000	36.164	PK

Site: AC5	Time: 2016/12/23 - 10:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2447 by 802.11n40 With antenna 0+1	



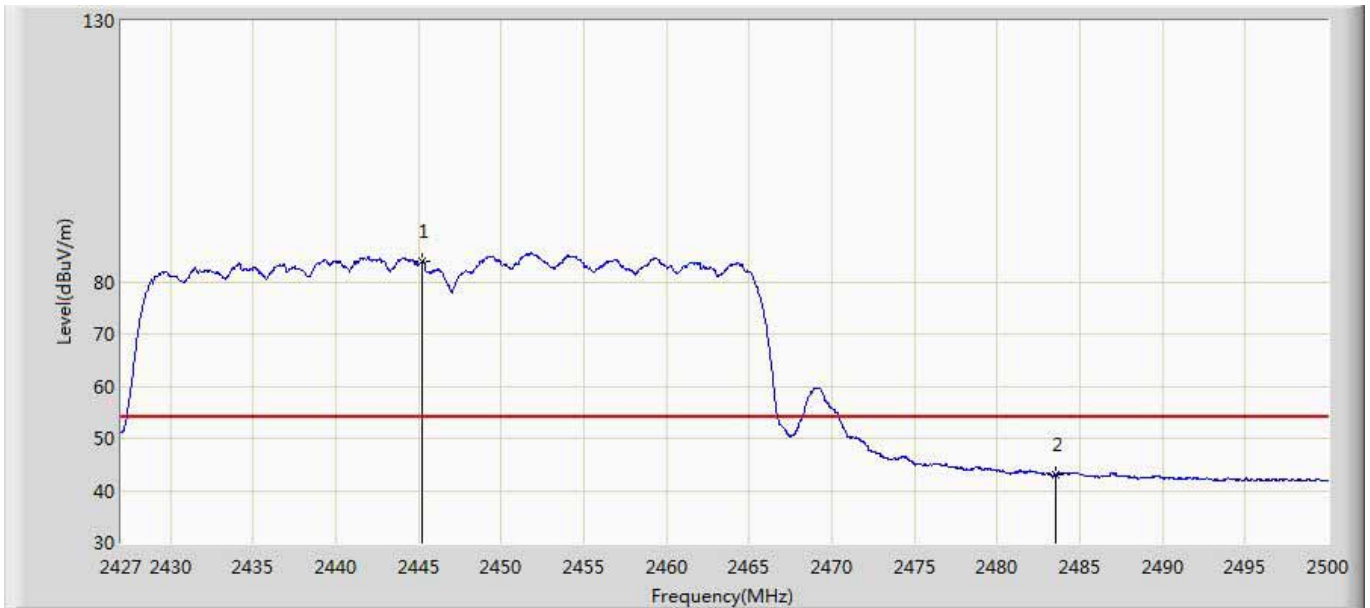
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2445.250	95.150	58.930	41.150	54.000	36.220	AV
2		2483.500	53.075	16.813	-0.925	54.000	36.261	AV

Site: AC5	Time: 2016/12/23 - 10:33
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2447 by 802.11n40 With antenna 0+1	



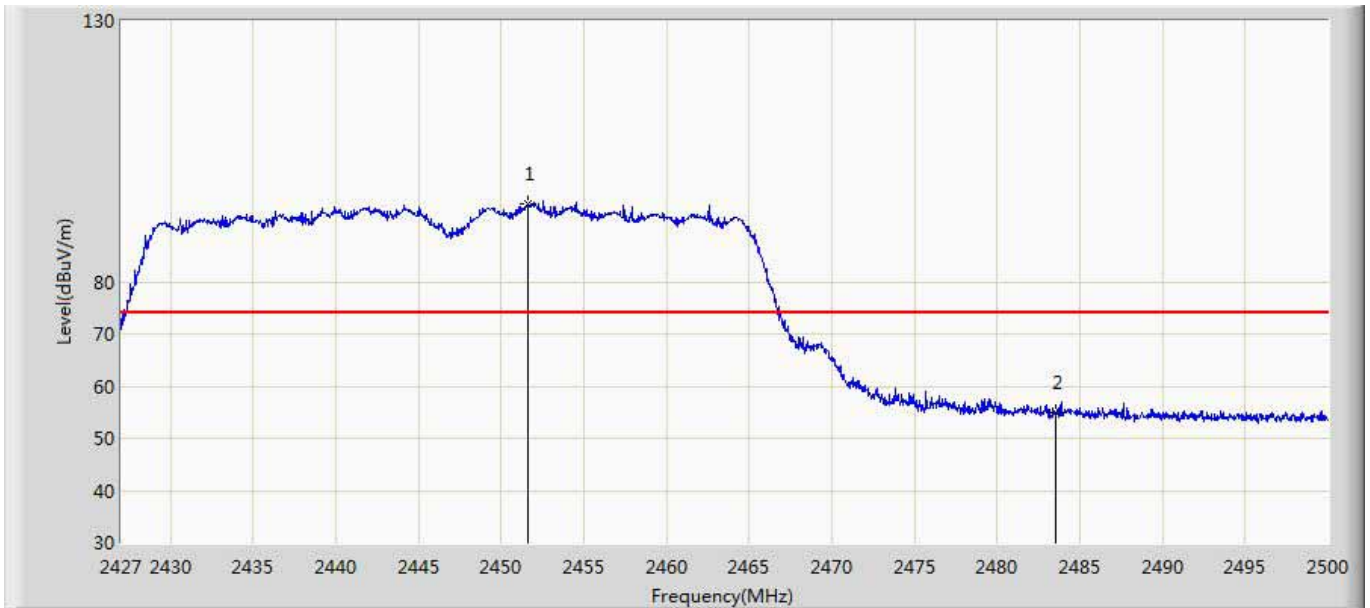
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2448.353	104.753	68.535	30.753	74.000	36.218	PK
2		2483.500	65.138	28.877	-8.862	74.000	36.261	PK

Site: AC5	Time: 2016/12/23 - 10:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2447 by 802.11n40 With antenna 0+1	



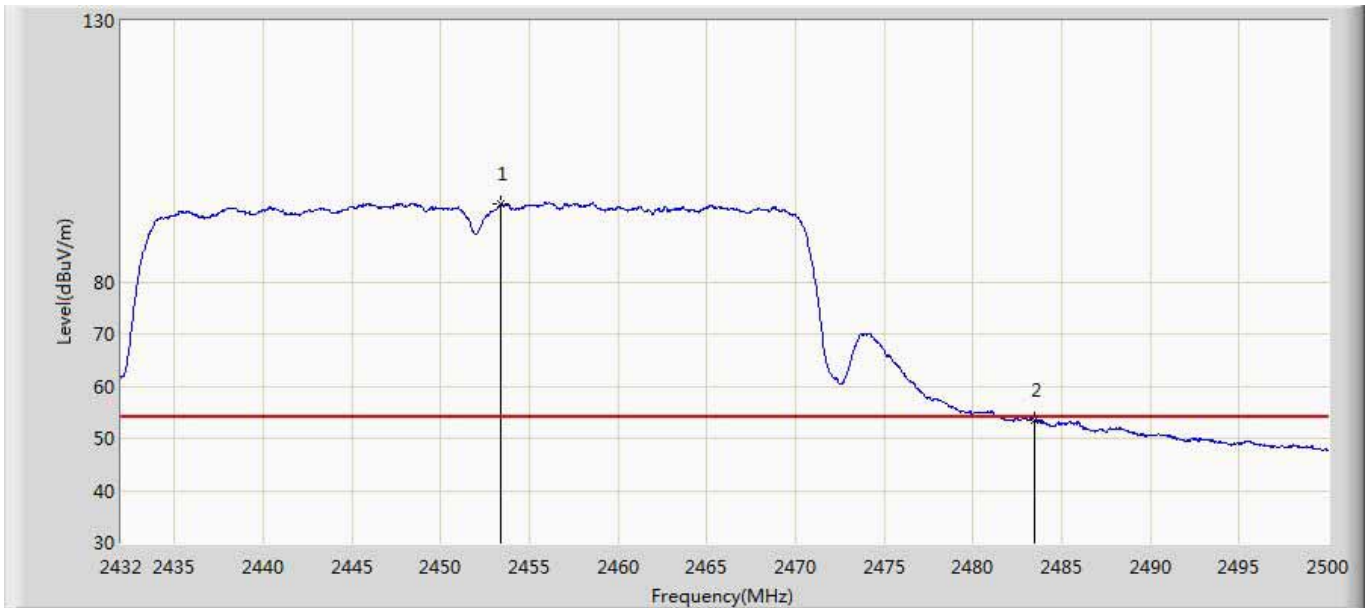
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2445.213	83.886	47.666	29.886	54.000	36.220	AV
2		2483.500	42.953	6.692	-11.047	54.000	36.261	AV

Site: AC5	Time: 2016/12/23 - 10:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2447 by 802.11n40 With antenna 0+1	



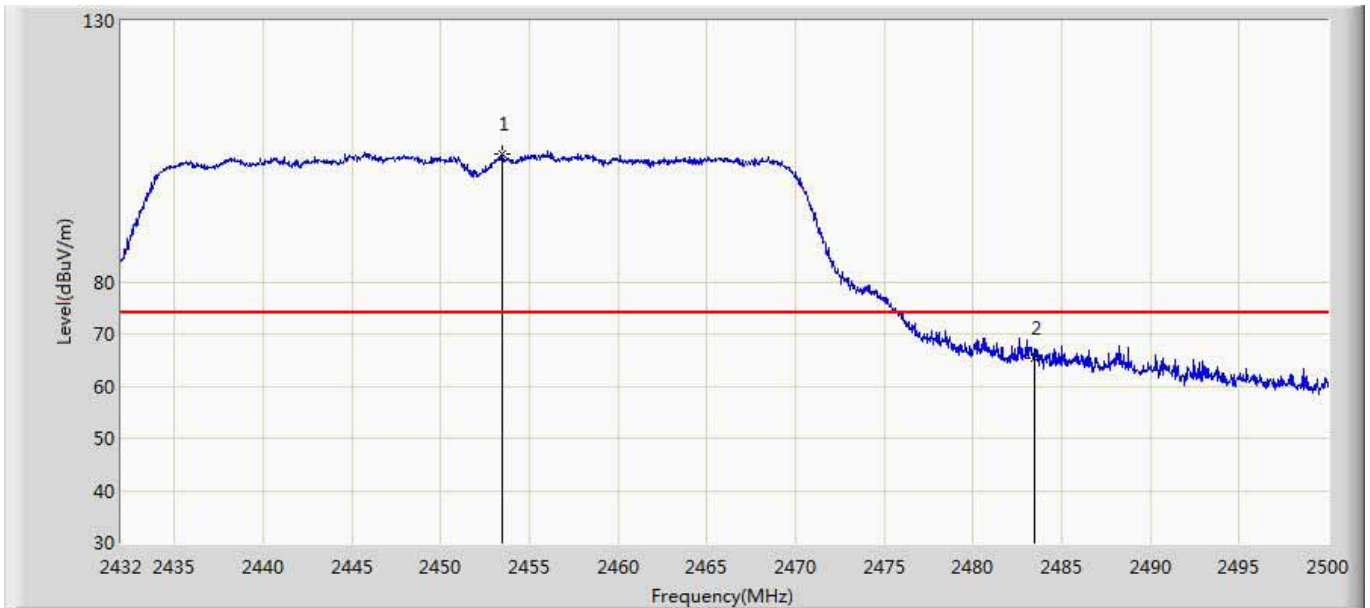
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2451.601	94.813	58.596	20.813	74.000	36.217	PK
2		2483.500	54.897	18.636	-19.103	74.000	36.261	PK

Site: AC5	Time: 2016/12/23 - 10:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2452 by 802.11n40 With antenna 0+1	



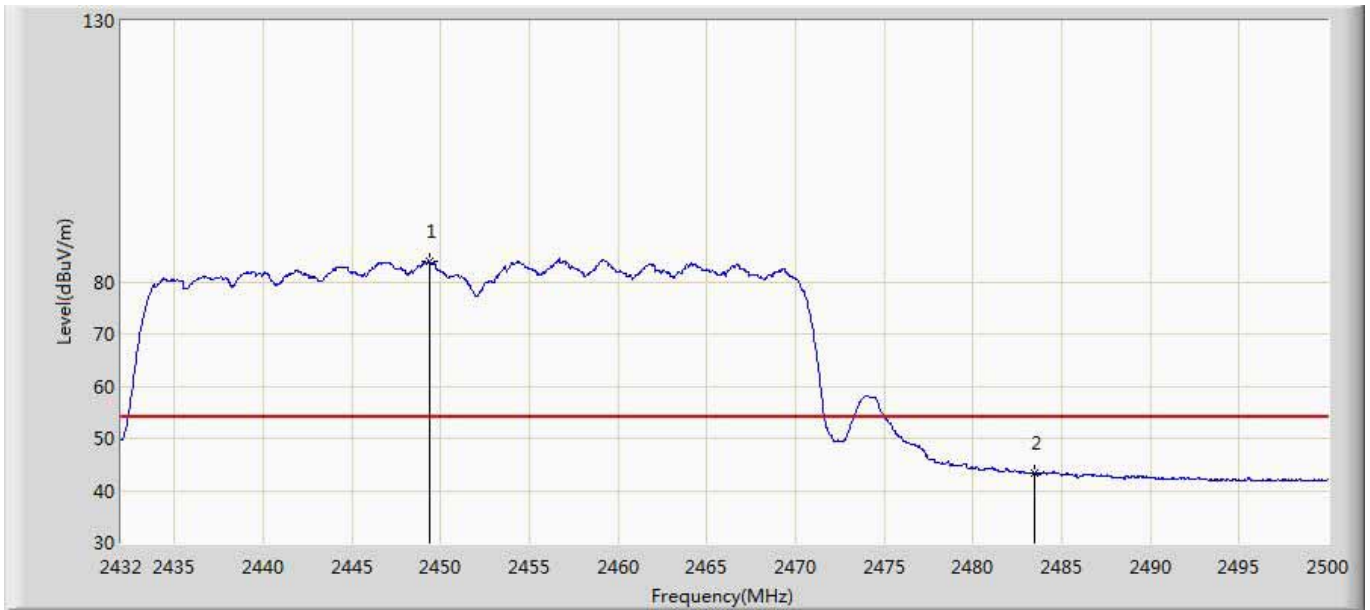
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2453.420	94.808	58.592	40.808	54.000	36.216	AV
2		2483.500	53.456	17.195	-0.544	54.000	36.261	AV

Site: AC5	Time: 2016/12/23 - 10:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2452 by 802.11n40 With antenna 0+1	



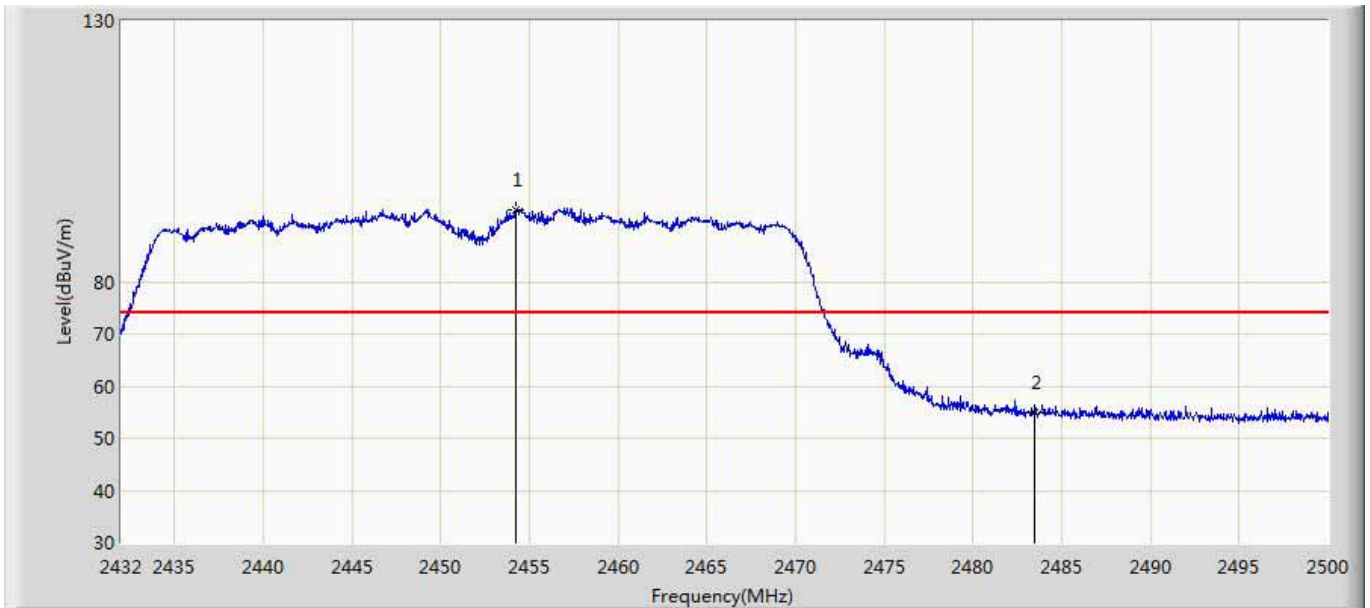
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2453.454	104.406	68.190	30.406	74.000	36.216	PK
2		2483.500	65.338	29.077	-8.662	74.000	36.261	PK

Site: AC5	Time: 2016/12/23 - 10:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2452 by 802.11n40 With antenna 0+1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2449.408	83.893	47.675	29.893	54.000	36.218	AV
2		2483.500	43.191	6.930	-10.809	54.000	36.261	AV

Site: AC5	Time: 2016/12/23 - 10:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2452 by 802.11n40 With antenna 0+1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2454.270	93.854	57.638	19.854	74.000	36.216	PK
2		2483.500	55.005	18.744	-18.995	74.000	36.261	PK

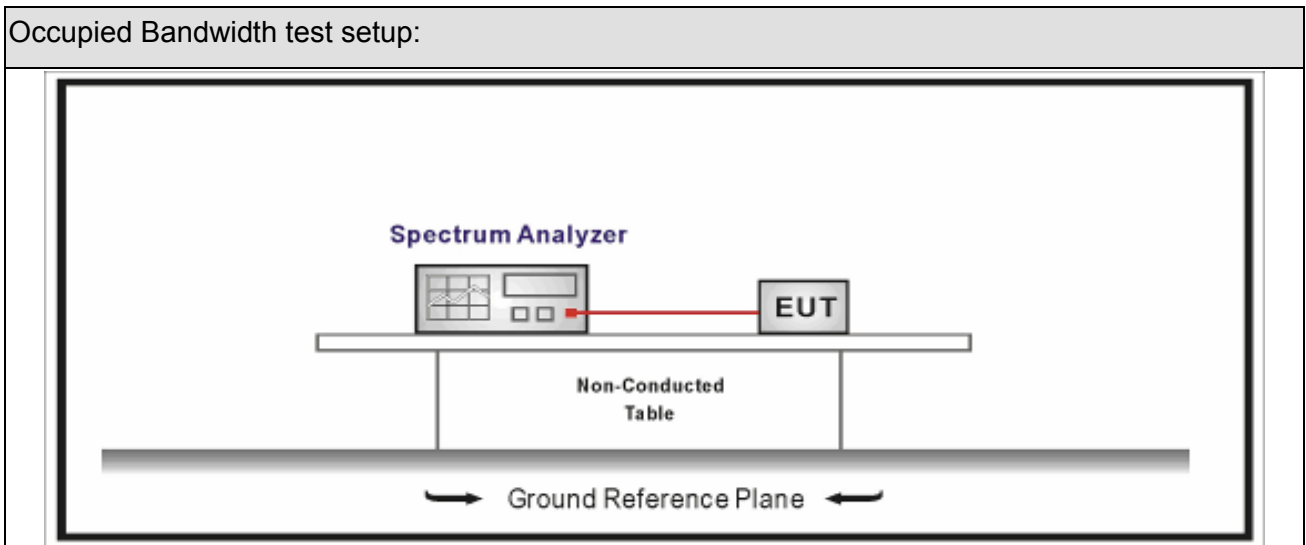
7. Occupied Bandwidth

7.1. Test Equipment

Occupied Bandwidth / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2017.02.03	2018.02.02
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2016.04.09	2017.04.08
MXA Signal Analyzer	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.

7.2. Test Setup



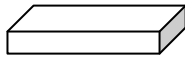
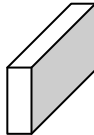
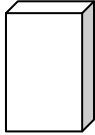
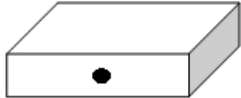


7.3. Limit

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

7.4. Test Procedure

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

7.5. EUT test definition

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

7.6. Test Result

Product Name	: AC1200 Wireless Dual Band Gigabit Router	Power	: AC 120V/60Hz
Test Mode	: Mode1~4	Test Site	: TR8
Test Date	: 2016.12.10		

Mode	CH.	Test Freq. (MHz)	99% Occupied Bandwidth (MHz)		6dB Occupied Bandwidth (MHz)		Limit (kHz)	Result
			Ant0	Ant1	Ant0	Ant1		
1	01	2412	10.092	N/A	8.090	N/A	>500	Pass
1	06	2437	10.090	N/A	8.556	N/A	>500	Pass
1	11	2462	10.084	N/A	8.082	N/A	>500	Pass
2	01	2412	16.555	16.509	16.52	16.42	>500	Pass
2	06	2437	16.518	16.495	16.43	16.41	>500	Pass
2	11	2462	16.511	16.516	16.44	16.48	>500	Pass
3	01	2412	17.646	17.665	17.62	17.70	>500	Pass
3	06	2437	17.655	17.663	17.64	17.65	>500	Pass
3	11	2462	17.658	17.662	17.66	17.63	>500	Pass
4	03	2422	36.028	36.008	36.27	35.58	>500	Pass
4	06	2437	36.013	36.025	36.26	35.81	>500	Pass
4	09	2452	35.990	36.056	35.96	36.28	>500	Pass

Note : The worst case of Occupied Bandwidth as below:

Mode 1 CH11 (2462MHz) Ant0



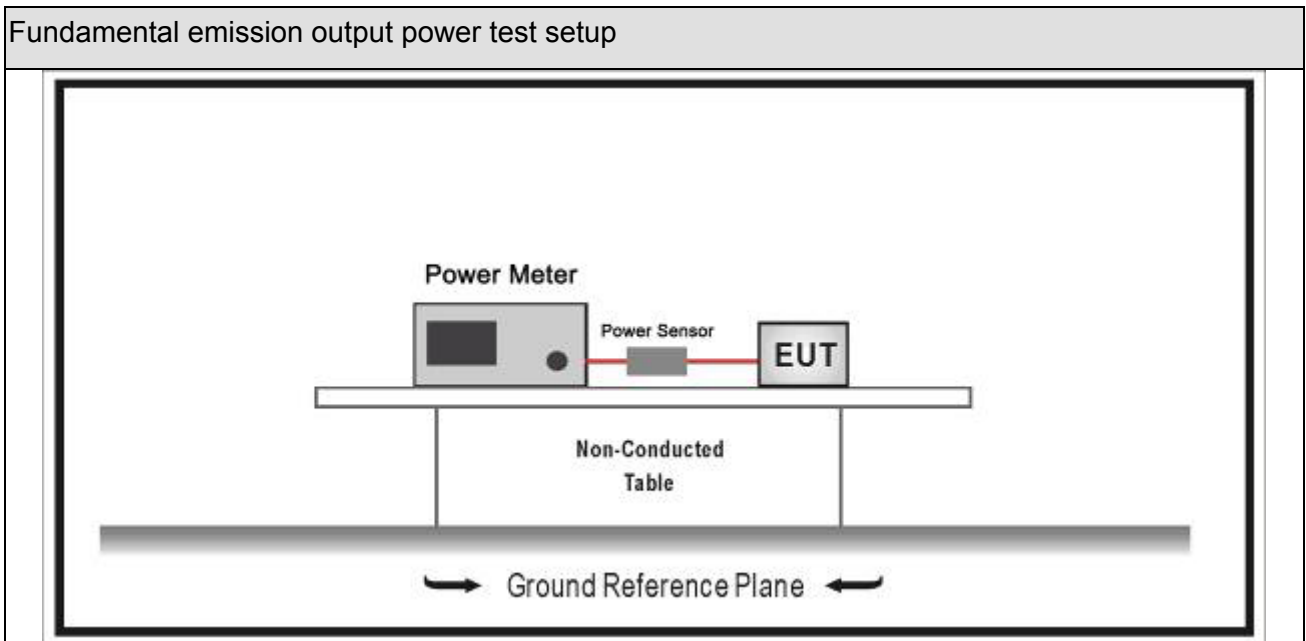
8. Fundamental emission output power

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	2017.02.03	2018.02.02
Wideband Peak Power Meter	Anritsu	ML2495A	0905006	2016.10.14	2017.10.13
Power Sensor	Anritsu	MA2411B	0846014	2016.10.14	2017.10.13
Temperature/Humidity Meter	zhicheng	ZC1-2	TR8-TH	2016.04.10	2017.04.09

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

8.2. Test Setup



8.3. Limit

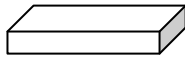
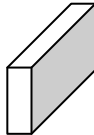
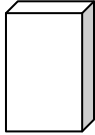
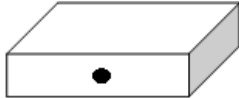


Fundamental emission output power Limit		
<input checked="" type="checkbox"/>	$G_{TX} < 6\text{dBi}$	$P_{out} \leq 30\text{dBm}$
<input type="checkbox"/>	$G_{TX} > 6\text{dBi}$	
<input type="checkbox"/>	Non-Fix point-point	$P_{out} \leq 30 - (G_{TX} - 6)$
<input type="checkbox"/>	Fix point-point	$P_{out} \leq 30 - [(G_{TX} - 6)]/3$
<input type="checkbox"/>	emits multiple directional beams but does not do emit multiple directional beams simultaneously	$P_{out} \leq 30 - [(G_{TX} - 6)]/3$
<input type="checkbox"/>	operates simultaneously on multiple directional beams using the same or different frequency channels	$P_{out} \leq 30 - [(G_{TX} - 6)]/3 + 8\text{dB}$
<input type="checkbox"/>	single directional beam	$P_{out} \leq 30 - [(G_{TX} - 6)]/3$
<p>Note 1 : G_{TX} directional gain of transmitting antennas.</p> <p>Note 2 : P_{out} is maximum peak conducted output power .</p>		

8.4. Test Procedure

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

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

8.5. EUT test definition

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

8.6. Test Result

Product Name	: AC1200 Wireless Dual Band Gigabit Router	Power	: AC 120V/60Hz
Test Mode	: Mode1~4	Test Site	: TR8
Test Date	: 2016.12.10		

Mode	Channel	Test Frequency (MHz)	Average Power Output (dBm)		Total Average (dBm)	Antenna	Antenna	Limit (dBm)	Result
			Ant0	Ant1		Gain (dBi) Ant0	Gain (dBi) Ant1		
1	01	2412	24.02	N/A	24.02	1.95	1.96	30	Pass
1	02	2417	28.13	N/A	28.13	1.95	1.96	30	Pass
1	06	2437	27.91	N/A	27.91	1.95	1.96	30	Pass
1	10	2457	25.59	N/A	25.59	1.95	1.96	30	Pass
1	11	2462	22.75	N/A	22.75	1.95	1.96	30	Pass
2	01	2412	19.75	19.77	22.77	1.95	1.96	30	Pass
2	02	2417	24.16	23.47	26.84	1.95	1.96	30	Pass
2	06	2437	26.27	26.13	29.21	1.95	1.96	30	Pass
2	10	2457	22.44	21.96	25.22	1.95	1.96	30	Pass
2	11	2462	19.14	19.07	22.12	1.95	1.96	30	Pass
3	01	2412	19.41	19.04	22.24	1.95	1.96	30	Pass
3	02	2417	23.34	22.88	26.13	1.95	1.96	30	Pass
3	06	2437	25.98	26.01	29.01	1.95	1.96	30	Pass
3	10	2457	21.45	21.52	24.50	1.95	1.96	30	Pass
3	11	2462	17.49	17.41	20.46	1.95	1.96	30	Pass

4	03	2422	16.62	16.32	19.48	1.95	1.96	30	Pass
4	04	2427	17.38	17.12	20.26	1.95	1.96	30	Pass
4	06	2437	20.29	20.35	23.33	1.95	1.96	30	Pass
4	08	2447	16.47	16.14	19.32	1.95	1.96	30	Pass
4	09	2452	15.43	15.67	18.56	1.95	1.96	30	Pass

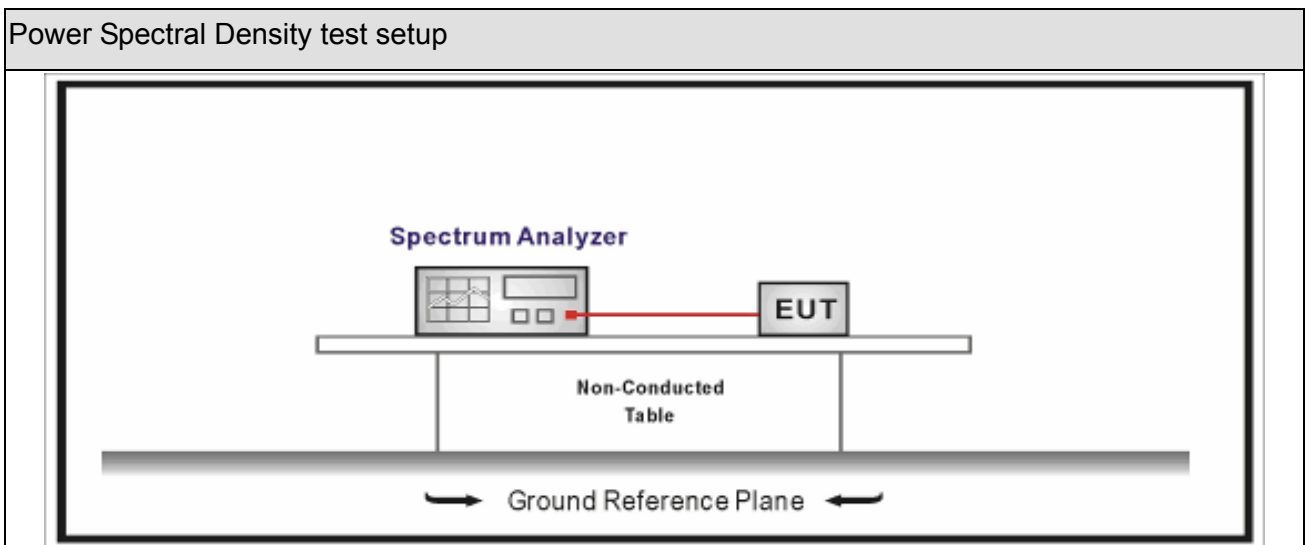
9. Power Spectral Density

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	2017.02.03	2018.02.02
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2016.04.09	2017.04.08
MXA Signal Analyzer	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.

9.2. Test Setup



9.3. Limit

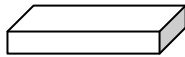
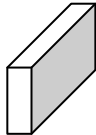
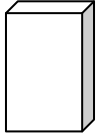
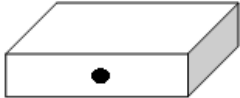


Power Spectral Density Limit
Power Spectral Density 8dBm/3kHz

9.4. Test Procedure

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

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

9.5. EUT test definition

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

9.6. Test Result

Product Name	: AC1200 Wireless Dual Band Gigabit Router	Power	: AC 120V/60Hz
Test Mode	: Mode1~4	Test Site	: TR8
Test Date	: 2016.12.10		

Mode	Channel	Test Frequency (MHz)	Measurement PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	Ant0 (dBi)	Ant1 (dBi)	Limit (dBm/3kHz)	Result
			Ant0	Ant1					
1	01	2412	1.878	N/A	1.88	1.95	1.96	8.0	Pass
1	06	2437	5.406	N/A	5.41	1.95	1.96	8.0	Pass
1	11	2462	1.134	N/A	1.13	1.95	1.96	8.0	Pass
2	01	2412	-4.400	-4.818	-1.59	1.95	1.96	8.0	Pass
2	06	2437	1.647	1.465	4.57	1.95	1.96	8.0	Pass
2	11	2462	-5.611	-6.717	-3.12	1.95	1.96	8.0	Pass
3	01	2412	-5.814	-6.027	-2.91	1.95	1.96	8.0	Pass
3	06	2437	1.704	1.972	4.85	1.95	1.96	8.0	Pass
3	11	2462	-6.330	-6.856	-3.57	1.95	1.96	8.0	Pass
4	03	2422	-10.196	-10.612	-7.39	1.95	1.96	8.0	Pass
4	06	2437	-7.359	-6.740	-4.03	1.95	1.96	8.0	Pass
4	09	2452	-13.18	-12.311	-9.71	1.95	1.96	8.0	Pass

Mode 1 CH06(2437MHz) Ant0



10. Antenna Requirement

10.1. Limit

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

10.2. Antenna Connector Construction

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

_____ The End _____