



中国认可
国际互认
检测
TESTING
CNAS L5313



Test Report

FCC Part15 Subpart C

Product Name : 2.4GHz 300Mbps 9dBi Outdoor CPE

Model No. : CPE210

FCC ID : TE7CPE210V2

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. 09, 2016

Test Date : Oct. 09, 2016~ Oct. 31, 2016

Issued Date : Nov. 15, 2016

Report No. : 16A2003R-RF- US-P06V01

Report Version : V1.1

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

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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. : CPE210
FCC ID : TE7CPE210V2
EUT Voltage : POE(24V)
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
KDB 662911 D02 MIMO with Cross-Polarized Antennas v01
Test Result : Complied
Performed Location : Quietek Corporation - Suzhou EMC Laboratory
No.99 Hongye Rd., Suzhou Industrial Park, Suzhou, 215006, Jiangsu, China
TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098
FCC Registration Number: 800392

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Laboratory Information

We, **Quietek Corporation**, are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted(audited or listed) by the following related bodies in compliance with ISO 17025, EN 45001 and specified testing scope:

Taiwan R.O.C.	:	BSMI, NCC, TAF
USA	:	FCC
Japan	:	VCCI
China	:	CNAS

The related certificate for our laboratories about the test site and management system can be downloaded from Quietek Corporation's Web Site : <http://www.quietek.com/english/about/certificates.aspx?bval=5>
The address and introduction of Quietek Corporation's laboratories can be founded in our Web site : http://www.quietek.com/index_en.aspx

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History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
16A2003R-RF-US-P06V01	V1.0	Initial Issued Report	Nov. 04, 2016
16A2003R-RF-US-P06V01	V1.1	Add adjacent highest/lowest channels data of power and bandedge.	Nov. 15, 2016

1. General Information

1.1. EUT Description

Product Name	2.4GHz 300Mbps 9dBi Outdoor CPE
Brand Name	TP-Link
Model No.	CPE210
EUT Voltage	POE(24V)
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. Working Frequency of Each Channel:

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

1.3. Antenna information

Antenna manufacturer	TP-Link		
Antenna Delivery	<input type="checkbox"/> 1*TX+1*RX	<input checked="" type="checkbox"/> 2*TX+2*RX	<input type="checkbox"/> 3*TX+3*RX
Antenna technology	<input type="checkbox"/> SISO		
	<input checked="" type="checkbox"/> MIMO	<input type="checkbox"/> Basic	
		<input type="checkbox"/> Sectorized antenna systems	
		<input checked="" type="checkbox"/> Cross-polarized antennas	
		<input type="checkbox"/> Unequal antenna gains, with equal transmit powers	
		<input type="checkbox"/> Spatial Multiplexing	
		<input type="checkbox"/> CDD	
	<input type="checkbox"/> Beam-forming		
Antenna Type	<input type="checkbox"/> External	<input type="checkbox"/> Dipole	
	<input checked="" type="checkbox"/> Internal	<input type="checkbox"/> PIFA	
		<input type="checkbox"/> PCB	
		<input type="checkbox"/> Ceramic Chip Antenna	
		<input type="checkbox"/> Metal plate type F antenna	
		<input checked="" type="checkbox"/> Cross-polarize Antenna	
Antenna Gain #0	9dBi		
Antenna Gain #1	9dBi		
Antenna Technology	Directional Gain (dBi)		
	For Power	For PSD	
<input checked="" type="checkbox"/> Cross-polarize Antenna	9	9	

1.4. 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)

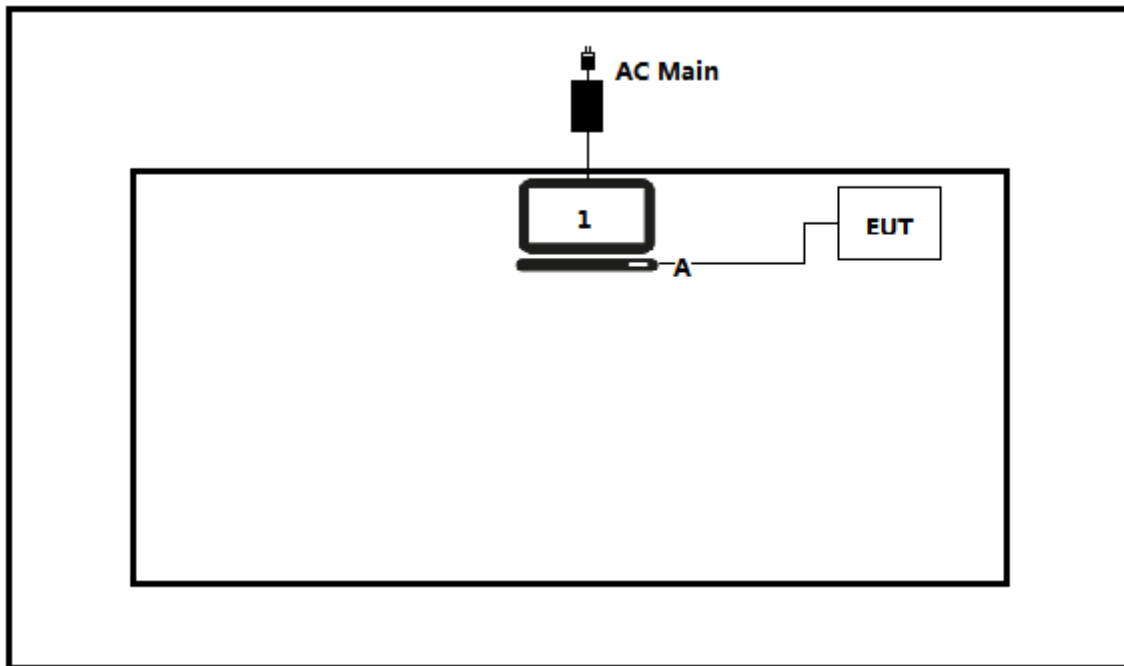
1.5. Tested System Details

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

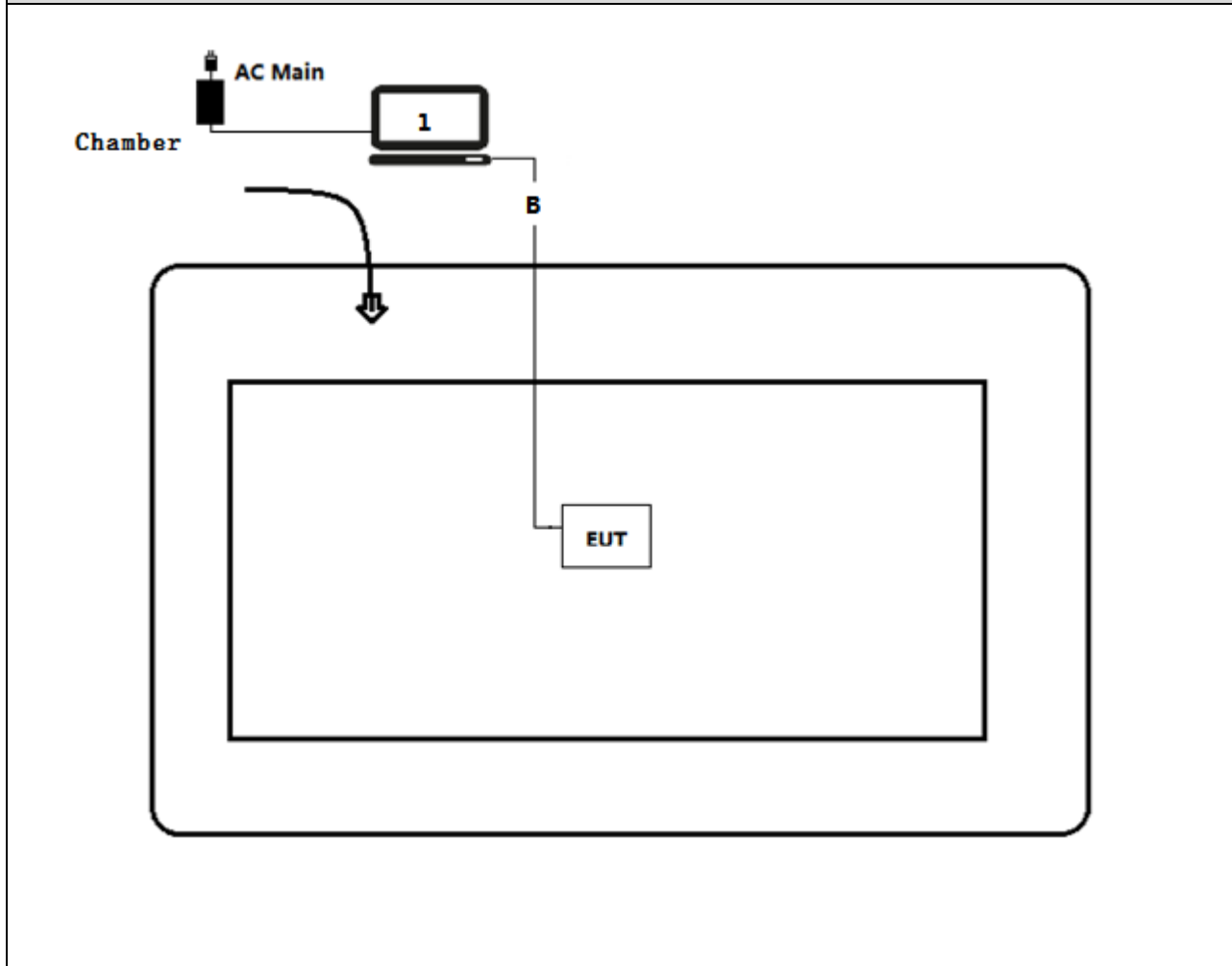
No.	Product	Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook	Lenovo	Think pad x220	SUA0600195	Non-shielded
A	LAN cable	N/A	N/A	N/A	Non-shielded, 1.5m
B	LAN cable	N/A	N/A	N/A	Non-shielded, 10m

1.6. Configuration of Tested System

Test setup Diagram- AC Line Conducted Emission Test



Test setup Diagram- Radiated Emission



2. Technical Test

2.1. Summary of Test Result

Performed Test Item	Normative References	Limit	Result
AC Power Line Conducted Emission	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.207	FCC 15.207	PASS
Emissions in restricted frequency bands	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.209	FCC 15.209	PASS
Emissions in non-restricted frequency bands	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.247(d)		

2.3. Power setting parameter

Test Software	ART 2	
Modulation Mode	Test Frequency	Ant 0+1
802.11b	2412	24.5
	2417	25
	2437	26
	2457	24
	2462	23
802.11g	2412	22
	2417	23
	2437	26
	2457	22.5
	2462	21
802.11n(20MHz)	2412	21
	2417	23
	2437	26
	2457	22.5
	2462	20
802.11n(40MHz)	2422	16
	2427	17
	2437	22
	2447	18
	2452	16

2.4. 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

Note 2 : The EUT has two spatial Streams

2.5. Test Environment

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

2.6. Measurement Uncertainty

Test Items	Uncertainty
------------	-------------

AC Power Line Conducted Emission

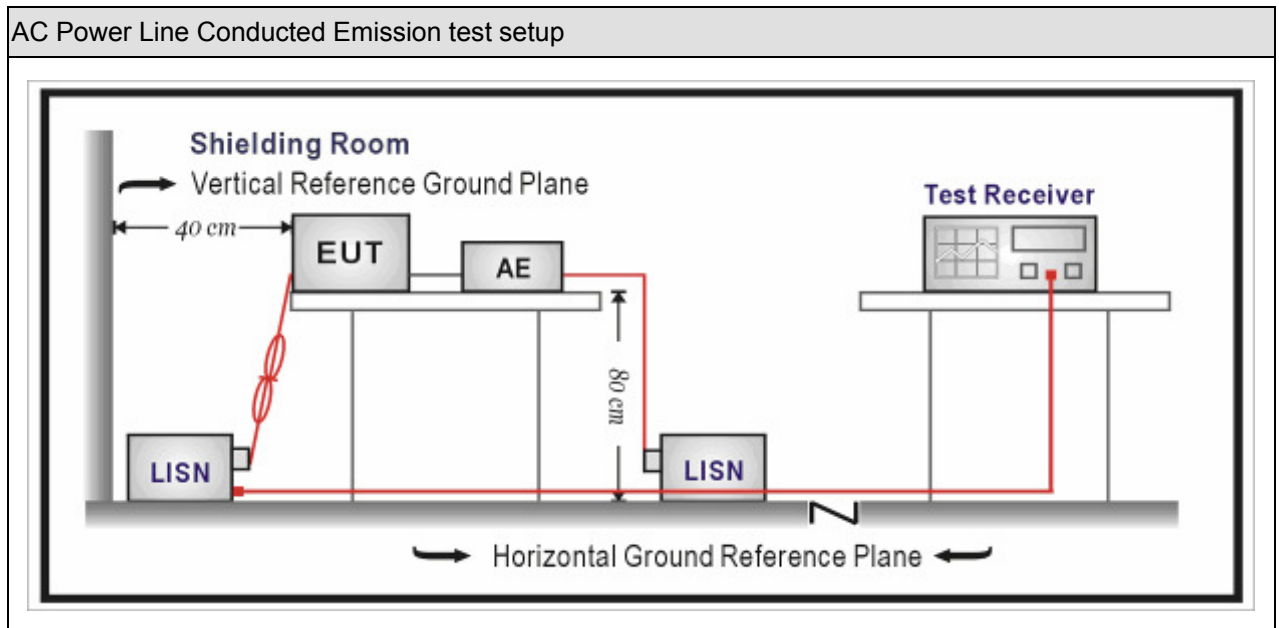
3. AC Power Line Conducted Emission

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	2017.03.05
Two-Line V-Network	R&S	ENV 216	101189	2016.07.16	2017.07.16
Two-Line V-Network	R&S	ENV 216	101044	2016.09.16	2017.09.16
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	N/A	N/A
50ohm Termination	SHX	TF2	07081402	2016.09.16	2017.09.16
Temperature/Humidity Meter	Zhichen	ZC1-2	TR1-TH	2016.01.05	2017.01.05

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

3.2. Test Setup

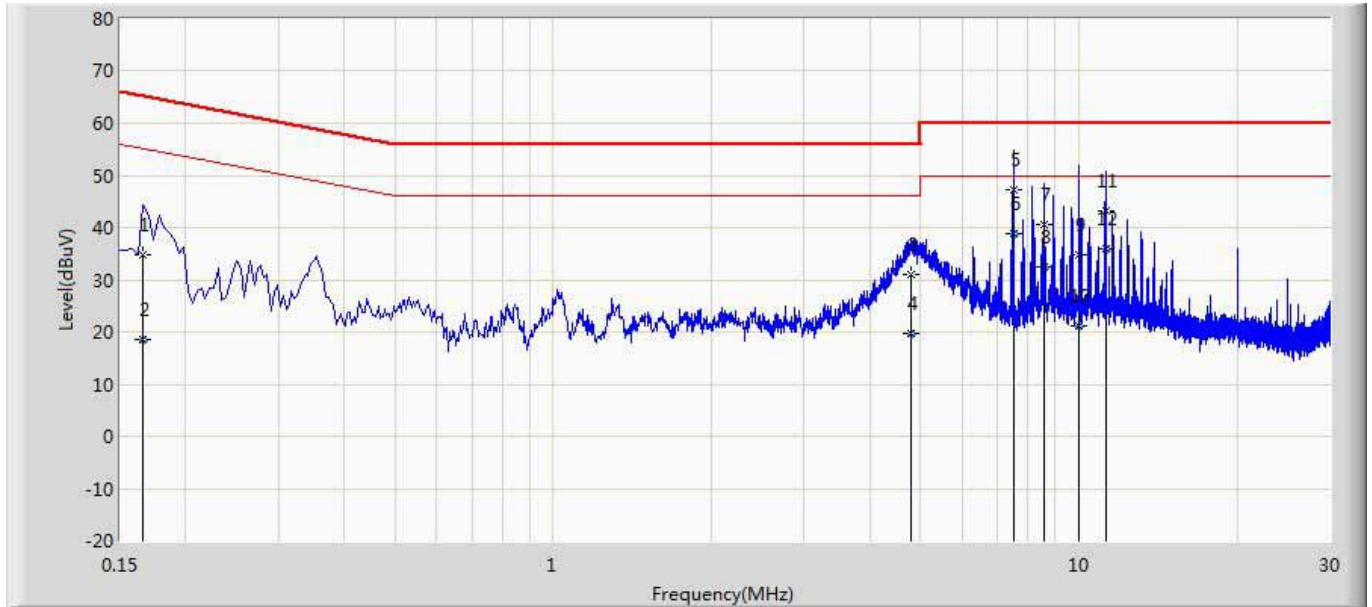


3.3. Limit

Frequency of Emission (MHz)	Conducted Limit Quasi-peak (dB)
--------------------------------	------------------------------------

3.5. Test Result

Site: TR1	Time: 2016/10/16
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216-L1	Polarity: Line
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode 1	

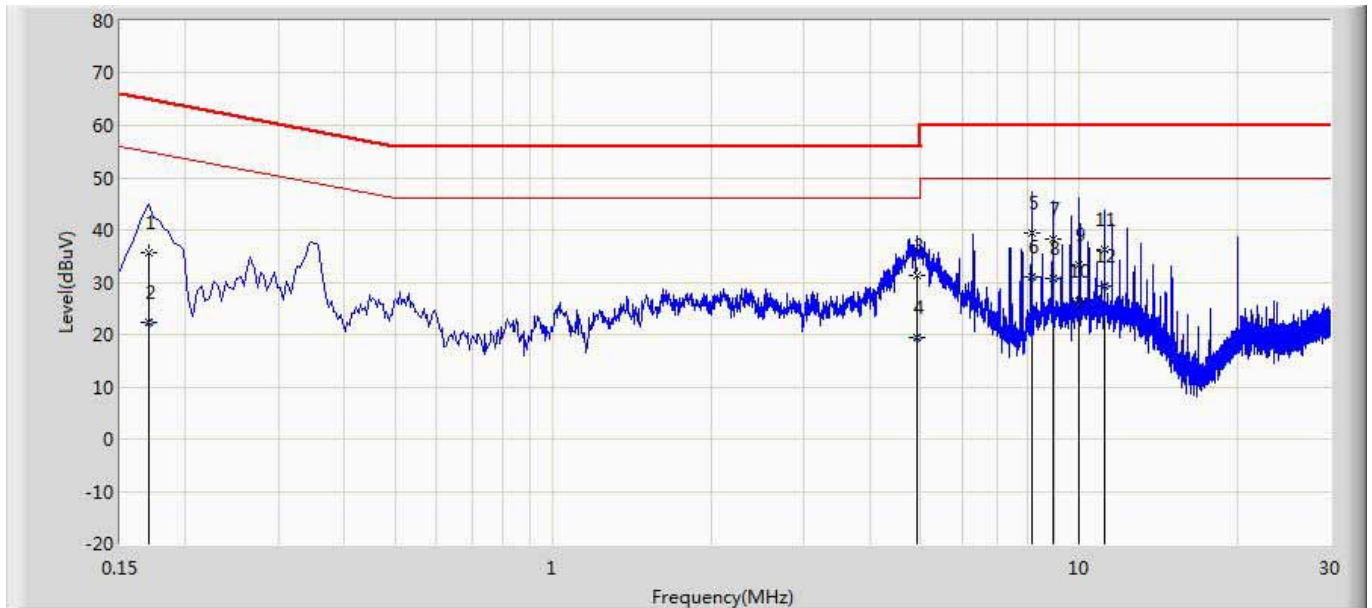


No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1		0.166	34.917	25.192	-30.241	65.158	9.665	0.060	0.000	QP
2		0.166	18.484	8.759	-36.674	55.158	9.665	0.060	0.000	AV
3		4.806	30.932	21.102	-25.068	56.000	9.670	0.160	0.000	QP
4		4.806	19.663	9.833	-26.337	46.000	9.670	0.160	0.000	AV
5		7.498	47.279	37.362	-12.721	60.000	9.707	0.210	0.000	QP
6	*	7.498	38.932	29.015	-11.068	50.000	9.707	0.210	0.000	AV
7		8.586	40.583	30.627	-19.417	60.000	9.720	0.236	0.000	QP
8		8.586	32.397	22.441	-17.603	50.000	9.720	0.236	0.000	AV
9		9.994	34.660	24.670	-25.340	60.000	9.730	0.260	0.000	QP
10		9.994	21.040	11.050	-28.960	50.000	9.730	0.260	0.000	AV
11		11.250	43.074	33.044	-16.926	60.000	9.740	0.290	0.000	QP
12		11.250	35.985	25.955	-14.015	50.000	9.740	0.290	0.000	AV

Note:

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

Site: TR1	Time: 2016/10/16
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216-N	Polarity: Neutral
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode 1	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1		0.170	35.627	25.901	-29.333	64.960	9.666	0.060	0.000	QP
2		0.170	22.303	12.577	-32.657	54.960	9.666	0.060	0.000	AV
3		4.914	31.250	21.420	-24.750	56.000	9.670	0.160	0.000	QP
4		4.914	19.544	9.714	-26.456	46.000	9.670	0.160	0.000	AV
5		8.154	39.408	29.468	-20.592	60.000	9.710	0.230	0.000	QP
6	*	8.154	31.148	21.208	-18.852	50.000	9.710	0.230	0.000	AV
7		8.914	38.398	28.438	-21.602	60.000	9.720	0.240	0.000	QP
8		8.914	30.815	20.855	-19.185	50.000	9.720	0.240	0.000	AV
9		9.998	33.301	23.301	-26.699	60.000	9.740	0.260	0.000	QP
10		9.998	26.331	16.331	-23.669	50.000	9.740	0.260	0.000	AV
11		11.194	36.186	26.146	-23.814	60.000	9.750	0.290	0.000	QP
12		11.194	29.131	19.091	-20.869	50.000	9.750	0.290	0.000	AV

Note:

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

4. Emissions in restricted frequency bands

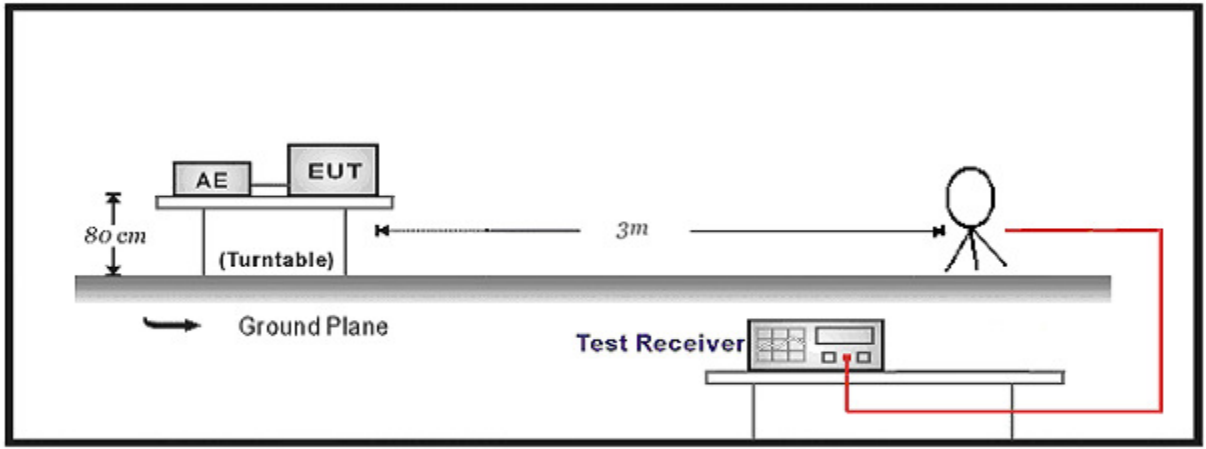
4.1. Test Equipment

Radiated Emission(Below 1GHz) / AC-2					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100573	2016.03.29	2017.03.28
Loop Antenna	R&S	HFH2-Z2	833799/003	2016.11.16	2017.11.17
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	2016.01.04	2017.01.03
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

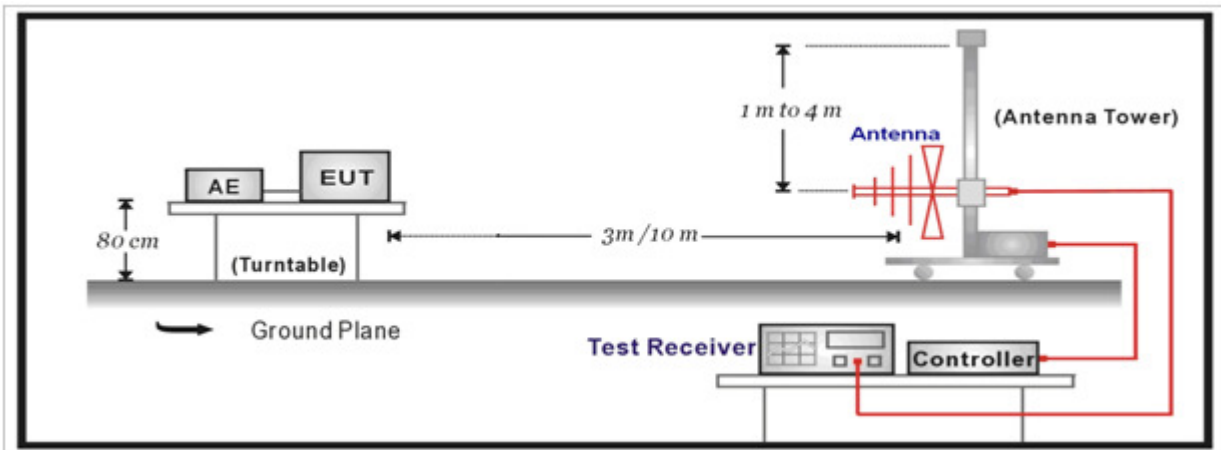
Radiated Emission(Above 1GHz) / AC-5					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2016.01.04	2017.01.03
Preamplifier	Miteq	NSP1800-25	1364185	2016.05.06	2017.05.05
Preamplifier	Quietek	AP-040G	CHM-0906001	2016.05.06	2017.05.05
DRG Horn	ETS-Lindgren	3117	00123988	2016.01.22	2017.01.21
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2016.11.25	2017.11.24
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C1	2016.03.02	2017.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2016.03.02	2017.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	AC5-C3	2016.03.02	2017.03.01
EMI Receiver	Agilent	N9038A	MY51210196	2016.06.10	2017.06.09
Temperature/Humidity Meter	Zhichen	ZC1-2	AC5-TH	2016.01.04	2017.01.03
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

4.2. Test Setup

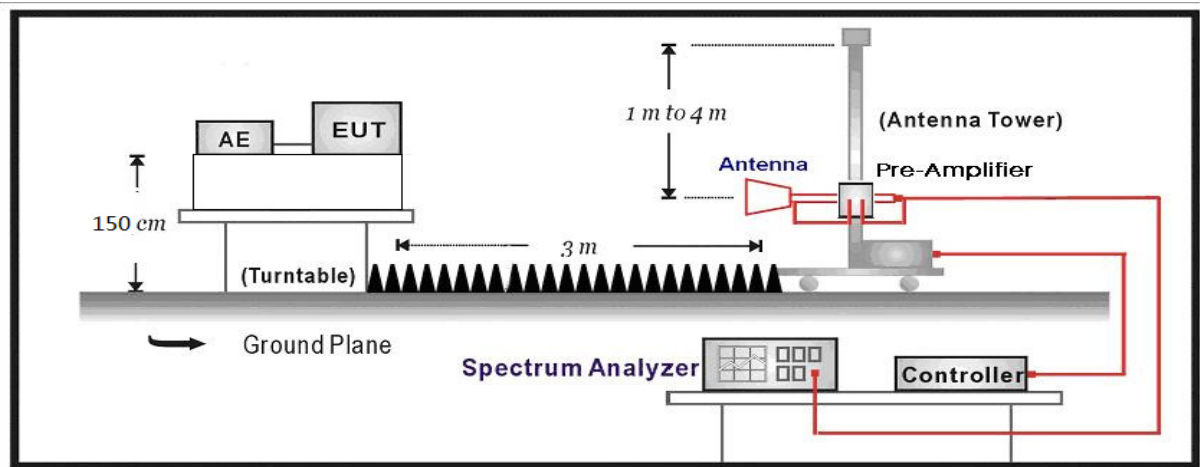
Below 30MHz Test Setup:



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

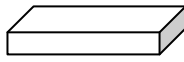
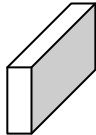
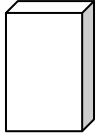
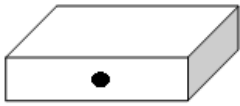

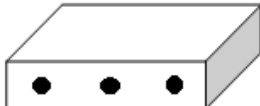
Frequency
(MHz)

Field strength
(

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 type="checkbox"/>	Worst Axis <input type="checkbox"/>	Worst Axis <input checked="" type="checkbox"/>
	<input 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
				

4.6. Test Result

Product Name	:	2.4GHz 300Mbps 9dBi Outdoor CPE	Power	:	AC 120V / 60Hz
Test Mode	:	Mode 1	Test Site	:	AC-5
Test Date	:	2016.10.31			

Chain	CH	Antenna Polarity	Frequency (MHz)	Reading Level (dB
-------	----	---------------------	--------------------	-------------------------

Product Name	:	2.4GHz 300Mbps 9dBi Outdoor CPE	Power	:	AC 120V / 60Hz
Test Site	:	Mode 2	Test Site	:	AC-5
Test Date	:	2016.10.31			

Chain	CH	Antenna Polarity	Frequency (MHz)	Reading Level (dB
-------	----	---------------------	--------------------	-------------------------

Product Name	:	2.4GHz 300Mbps 9dBi Outdoor CPE	Power	:	AC 120V / 60Hz
Test Site	:	Mode 3	Test Site	:	AC-5
Test Date	:	2016.10.31			

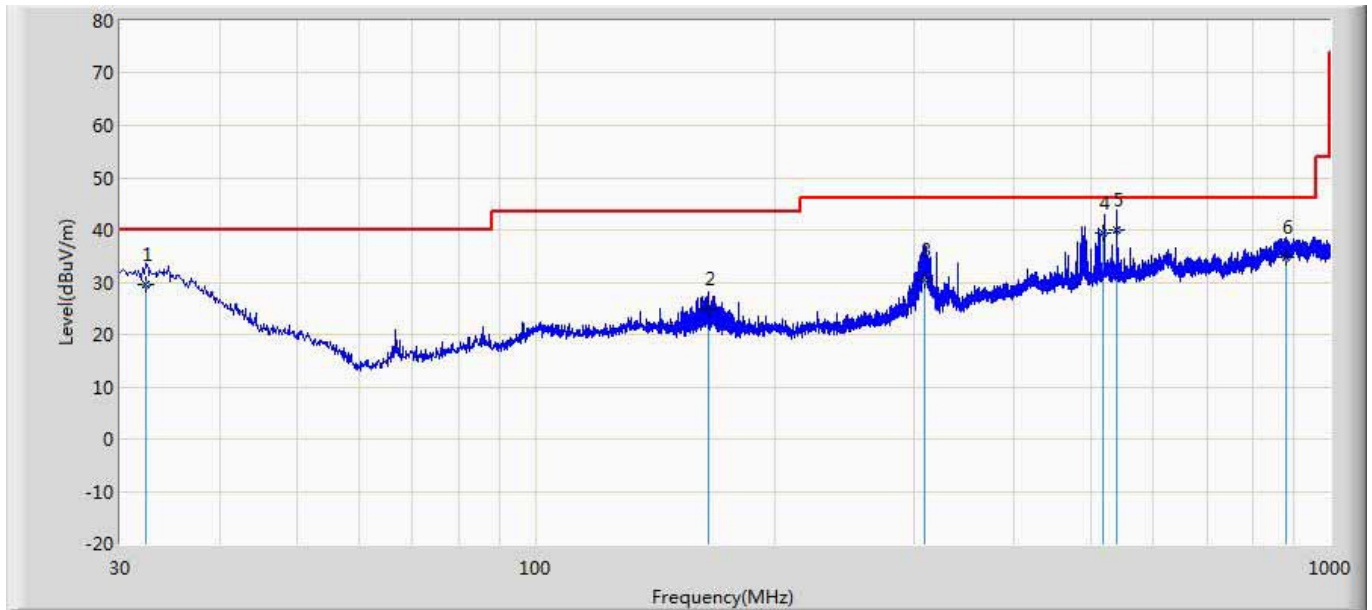
Chain	CH	Antenna Polarity	Frequency (MHz)	Reading Level (dB
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Product Name	:	2.4GHz 300Mbps 9dBi Outdoor CPE	Power	:	AC 120V / 60Hz
Test Site	:	Mode 4	Test Site	:	AC-5
Test Date	:	2016.10.31			

Chain	CH	Antenna Polarity	Frequency (MHz)	Reading Level (dB
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The worst case of Radiated Emission below 1GHz:

Site: AC2	Time: 2016/10/16
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: AC2_3M(30-1G)	Polarity: Horizontal
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V/60Hz
Note: Mode 1	

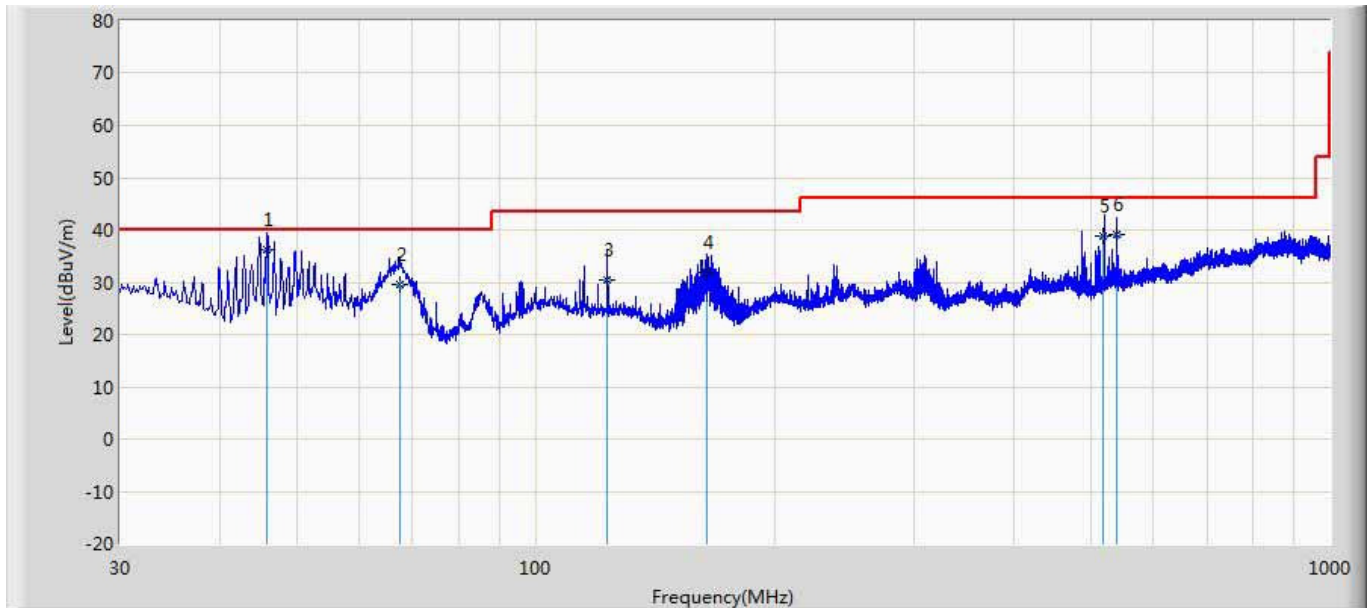


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		32.300	29.580	34.614	-10.420	40.000	17.466	0.624	23.124	100	2	QP
2		165.200	24.792	36.704	-18.708	43.500	9.744	1.394	23.050	100	2	QP
3		308.250	30.339	37.783	-15.661	46.000	13.614	1.890	22.949	200	360	QP
4		519.200	39.381	41.420	-6.619	46.000	18.261	2.470	22.770	100	23	QP
5	*	539.650	39.936	41.435	-6.064	46.000	18.751	2.520	22.770	100	2	QP
6		881.200	34.813	33.771	-11.187	46.000	20.462	3.270	22.690	200	23	QP

Note:

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

Site: CB7	Time: 2016/10/16
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: AC2_3M(30-1G)	Polarity: Vertical
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	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	*	45.970	36.230	48.854	-3.770	40.000	9.812	0.740	23.176	100	188	QP
2		67.500	29.701	45.531	-10.299	40.000	6.350	0.880	23.060	200	265	QP
3		123.200	30.538	40.120	-12.962	43.500	12.308	1.200	23.090	100	145	QP
4		164.200	31.762	43.648	-11.738	43.500	9.774	1.390	23.050	200	234	QP
5		519.210	38.830	40.869	-7.170	46.000	18.261	2.470	22.770	100	144	QP
6		539.600	39.047	40.547	-6.953	46.000	18.750	2.520	22.770	200	23	QP

Note:

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

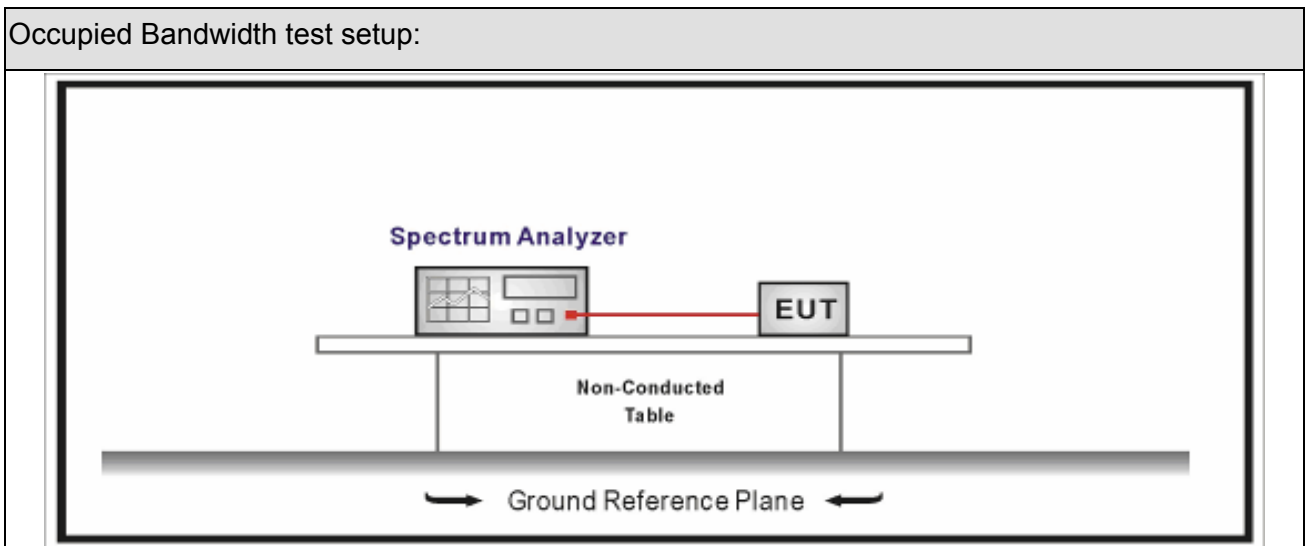
5. Emissions in non-restricted frequency bands

5.1. Test Equipment

Occupied Bandwidth / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2016.02.04	2017.02.04
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2016.04.09	2017.04.09
MXA Signal Analyzer	Keysight	N9020A	MY56060147	2016.04.09	2017.04.09
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2016.04.10	2017.04.10

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

5.2. Test Setup



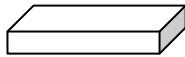
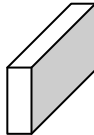
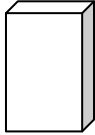
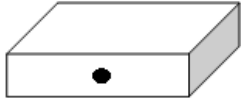


5.3. Limit

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

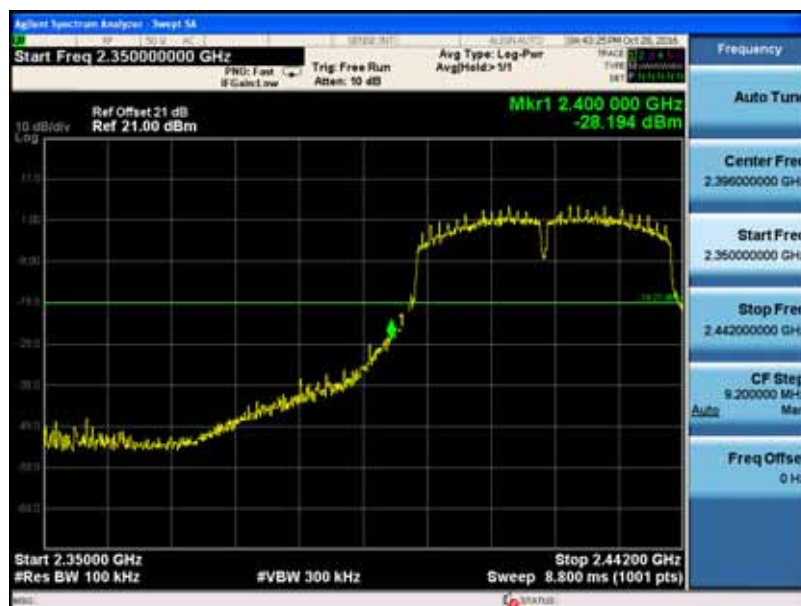
Product Name	: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power	: AC 120V / 60Hz
Test Mode	: Mode1~4	Test Site	: TR8
Test Date	: 2016.11.01		

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	17.86	2400	-40.536	58.396	>30	Pass
1	11	2462	17.86	2483.5	-43.338	61.198	>30	Pass
2	01	2412	17.54	2400	-27.531	45.071	>30	Pass
2	11	2462	17.54	2483.5	-43.129	60.669	>30	Pass
3	01	2412	17.16	2400	-28.176	45.336	>30	Pass
3	11	2462	17.16	2483.5	-43.322	60.482	>30	Pass
4	03	2422	10.73	2400	-28.194	38.924	>30	Pass
4	09	2452	10.73	2483.5	-46.518	57.248	>30	Pass

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

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
1	01	2412	16.02	2400	-45.106	61.126	>30	Pass
1	11	2462	16.02	2483.5	-44.682	60.702	>30	Pass
2	01	2412	16.12	2400	-30.680	46.800	>30	Pass
2	11	2462	16.12	2483.5	-43.348	59.468	>30	Pass
3	01	2412	16.15	2400	-32.363	48.513	>30	Pass
3	11	2462	16.15	2483.5	-41.828	57.978	>30	Pass
4	03	2422	8.04	2400	-30.285	38.325	>30	Pass
4	09	2452	8.04	2483.5	-46.739	54.779	>30	Pass

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

Mode 4 CH03(2422MHz)

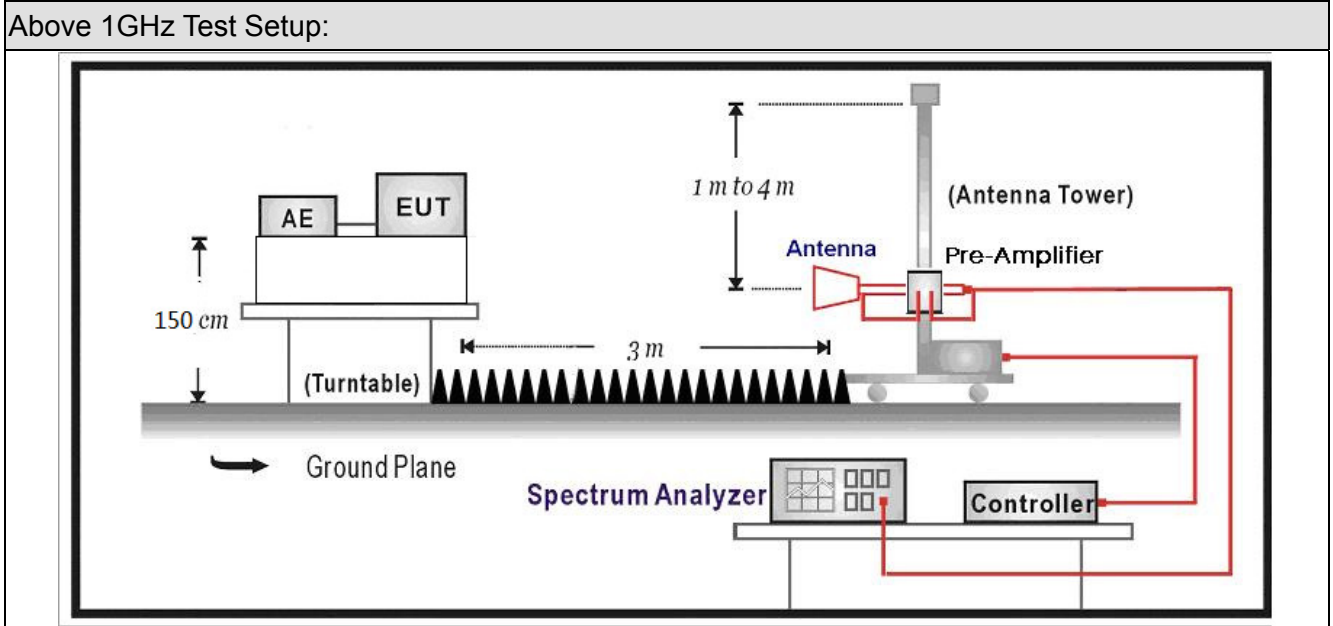


6. Radiated Emission Band Edge

6.1. Test Equipment

Radiated Emission(Above 1GHz) / AC-5					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Receiver	Agilent	N9038A	MY51210196	2016.07.16	2017.07.16
Pre-Amplifier	Miteq	NSP1800-25	1364185	2016.05.03	2017.05.03
DRG Horn Antenna	ETS-Lindgren	3117	00167055	2016.07.12	2017.07.12
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2016.09.18	2017.09.18
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C1	2016.02.28	2017.02.28
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2016.02.28	2017.02.28
Temperature/Humidity Meter	Zhichen	ZC1-2	AC5-TH	2016.01.05	2017.01.05
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

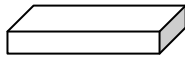
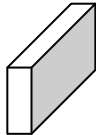
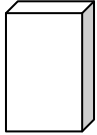
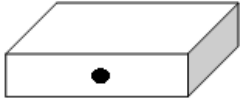


Band edge Limit

Frequency bands (MHz)	Detector	Limit (dB)
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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 type="checkbox"/>	Worst Axis <input type="checkbox"/>	Worst Axis <input checked="" 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
				

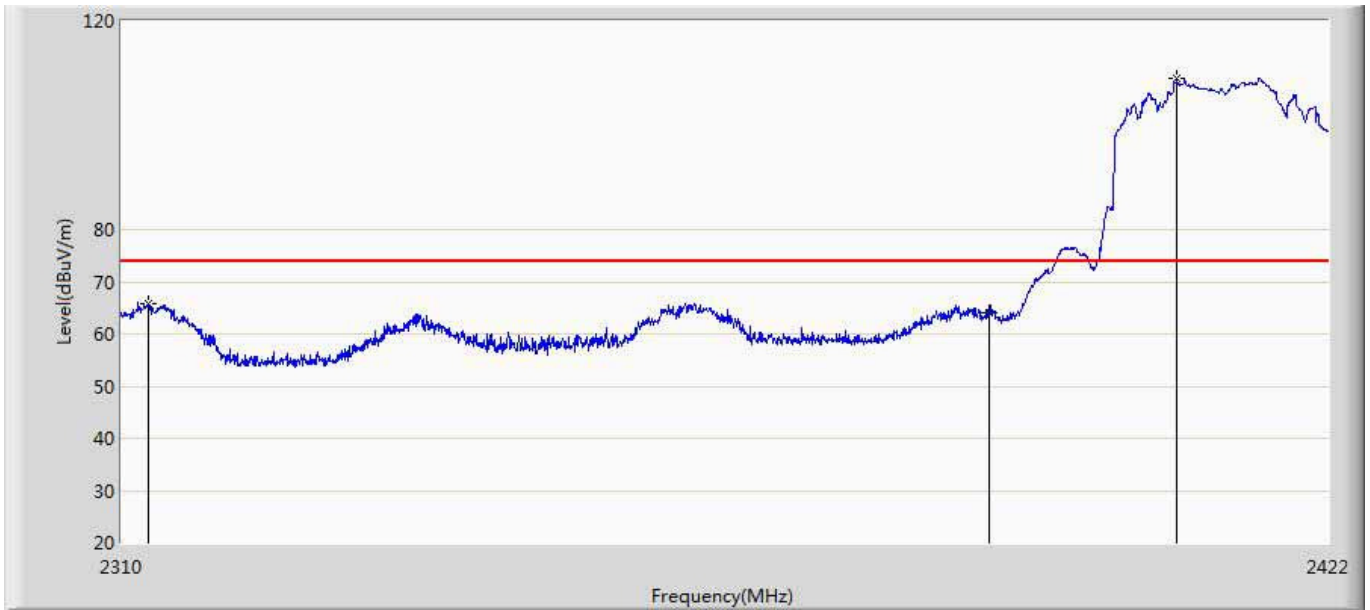
6.6. Duty Cycle

Test Mode	Tx On (ms)	Tx Off (ms)	VBW	Tx On + Tx Off (ms)	Duty Cycle
802.11b	12.16	0.1	82Hz	12.26	99.18%
802.11g	2.005	0.065	510HZ	2.070	96.86%
802.11n(20MHz)	1.865	0.07	560Hz	1.935	96.38%
802.11n(40MHz)	0.912	0.06	1.1KHz	0.972	93.83%



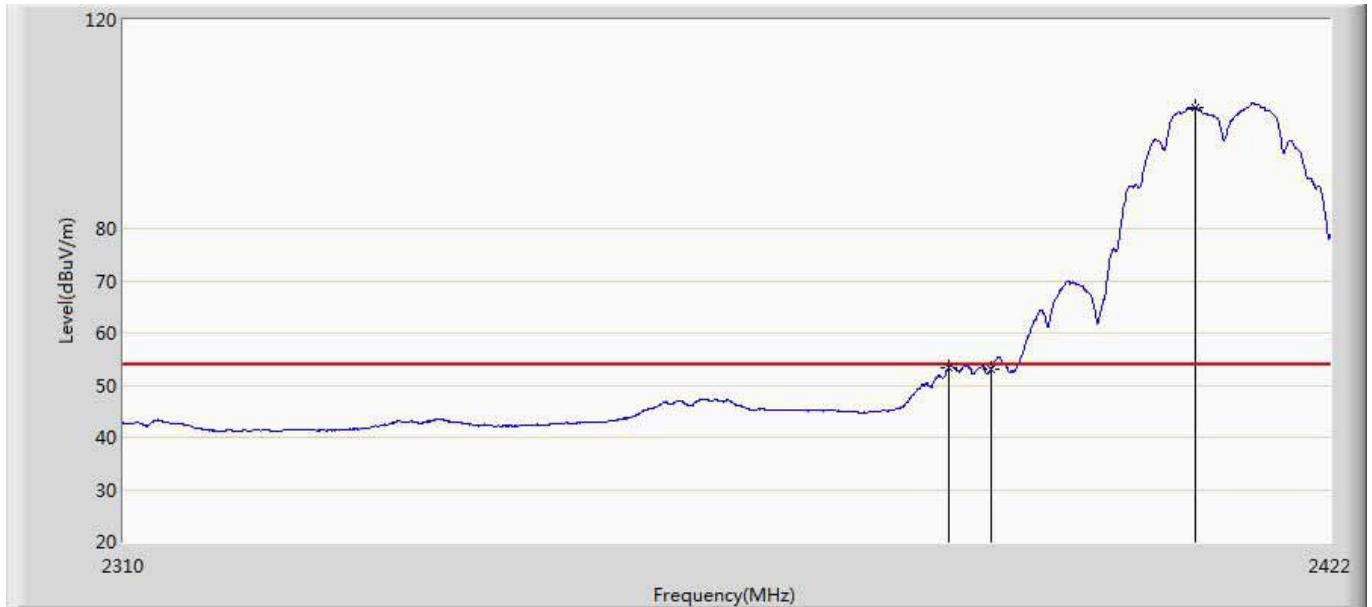
6.7. Test Result

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 10:15
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode1: Transmit at channel2412MHz by 802.11b	



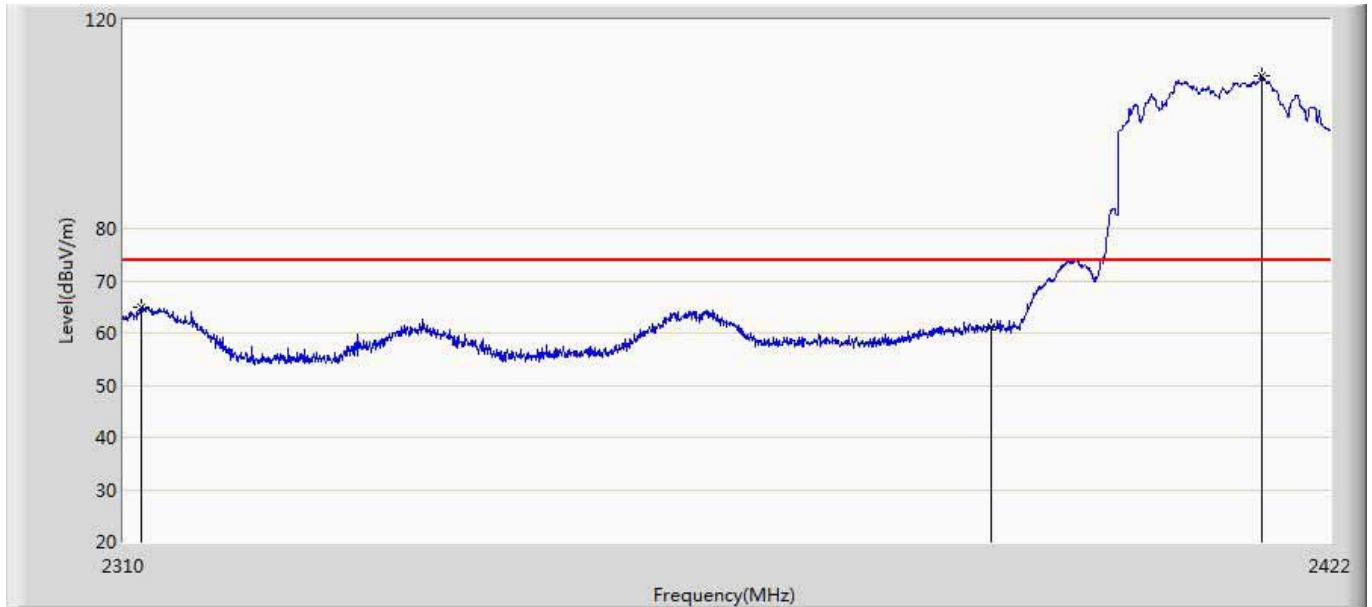
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2312.464	65.862	30.347	-8.138	74.000	35.515	PK
2		2390.000	64.010	28.328	-9.990	74.000	35.682	PK
3	*	2407.720	109.021	73.293	35.021	74.000	35.728	PK

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 10:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode1: Transmit at channel2412MHz by 802.11b	



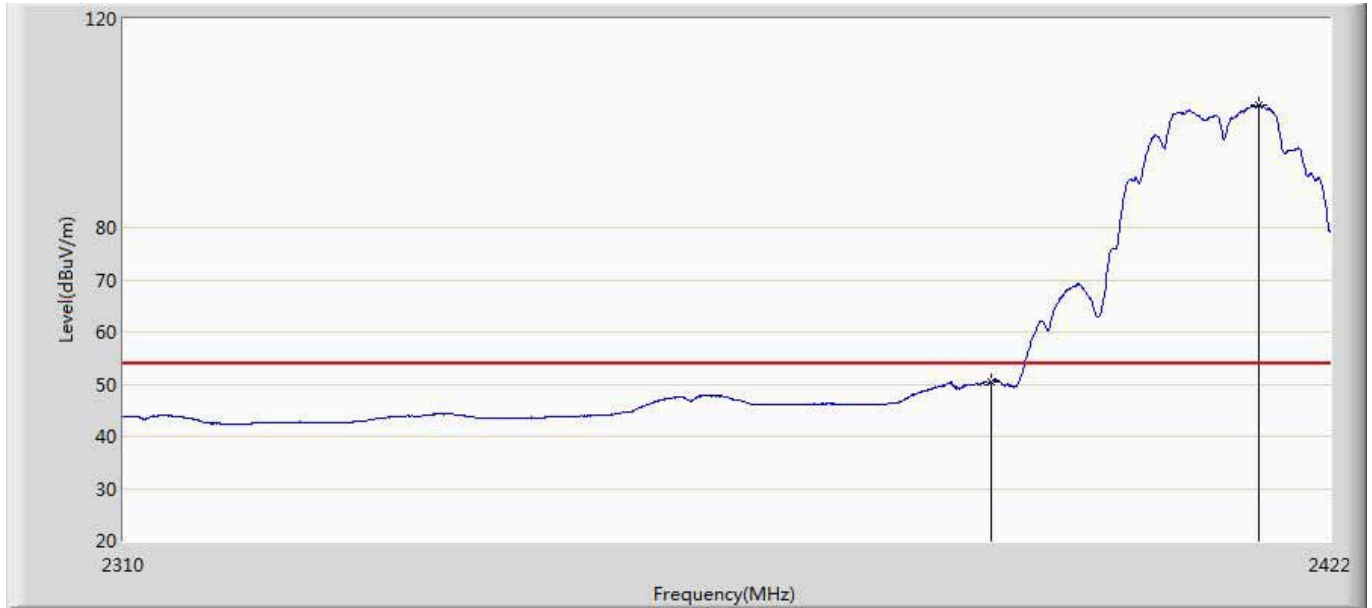
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2386.048	53.401	17.728	-0.599	54.000	35.673	AV
2		2390.000	52.957	17.275	-1.043	54.000	35.682	AV
3	*	2409.232	103.238	67.506	49.238	54.000	35.732	AV

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 09:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode1: Transmit at channel2412MHz by 802.11b	



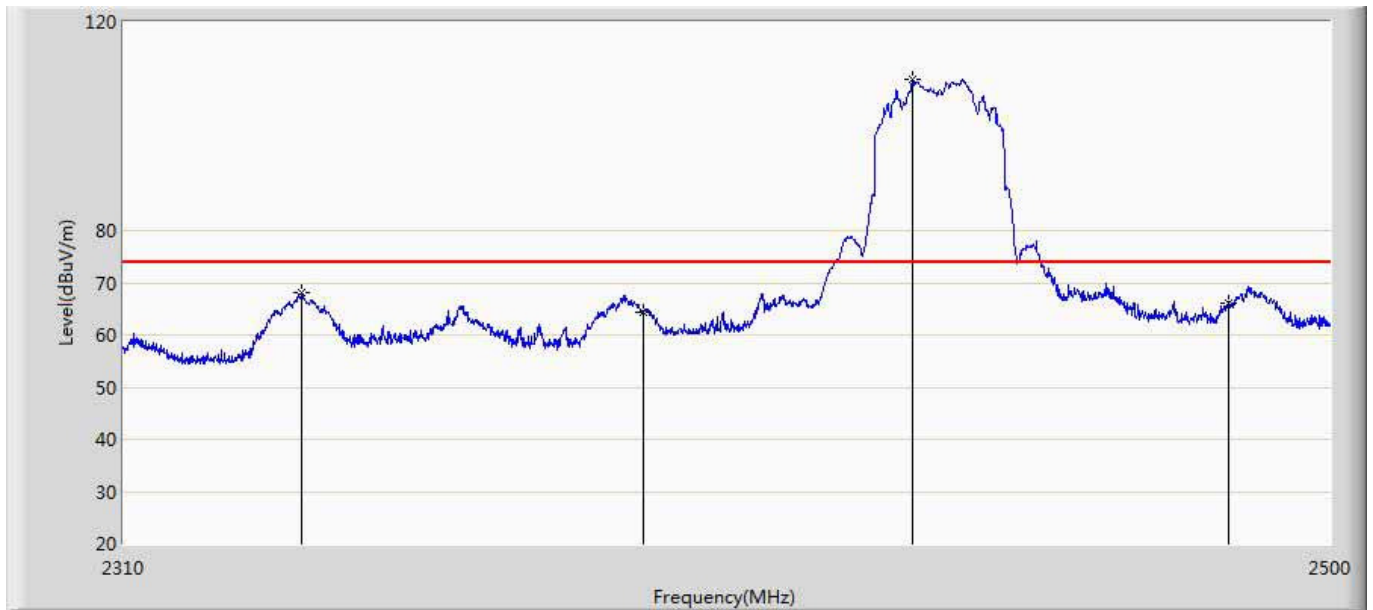
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2311.680	64.962	29.449	-9.038	74.000	35.513	PK
2		2390.000	61.044	25.362	-12.956	74.000	35.682	PK
3	*	2415.504	109.211	73.455	35.211	74.000	35.757	PK

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 09:54
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode1: Transmit at channel2412MHz by 802.11b	



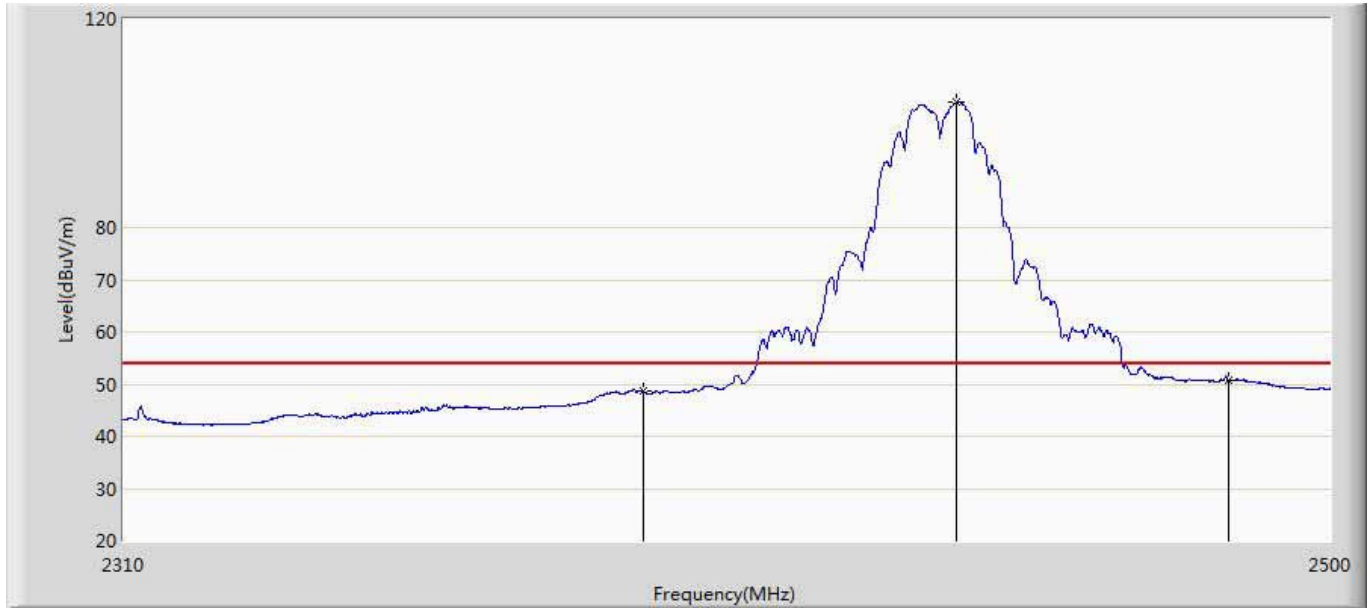
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	50.341	14.659	-3.659	54.000	35.682	AV
2	*	2415.280	103.552	67.797	49.552	54.000	35.755	AV

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 10:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode1: Transmit at channel2437MHz by 802.11b	



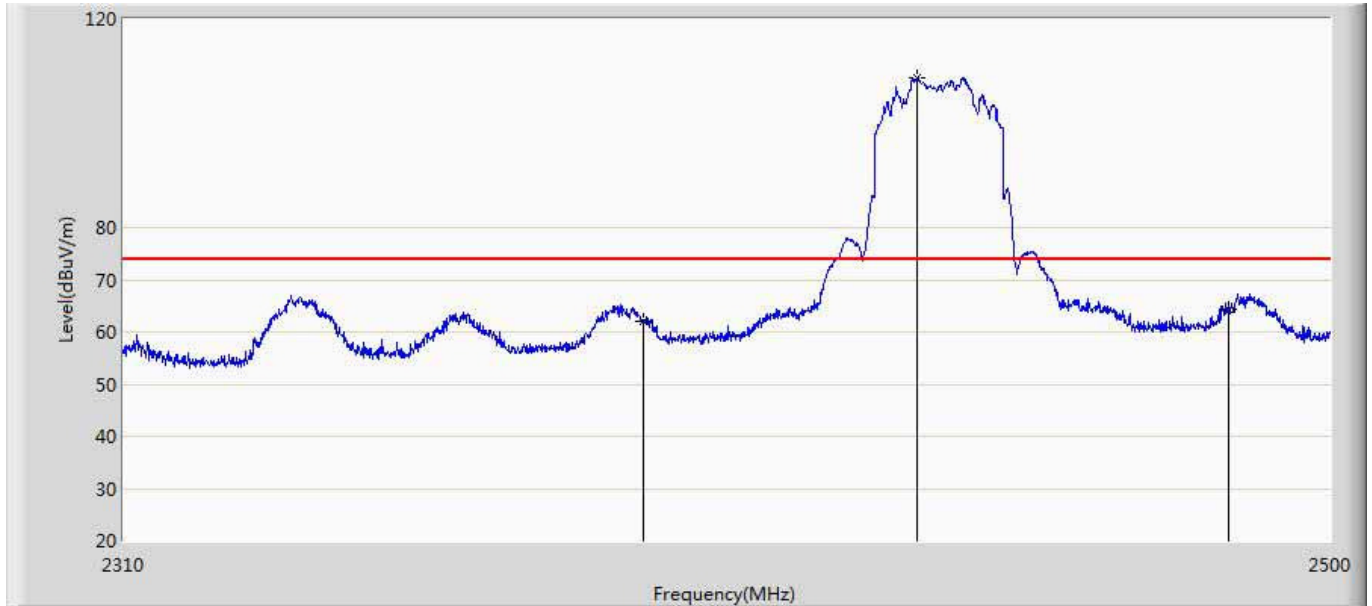
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2337.170	68.162	32.584	-5.838	74.000	35.578	PK
2		2390.000	64.417	28.735	-9.583	74.000	35.682	PK
3	*	2432.645	109.019	73.212	35.019	74.000	35.807	PK
4		2483.500	66.214	30.322	-7.786	74.000	35.891	PK

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 10:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode1: Transmit at channel2437MHz by 802.11b	



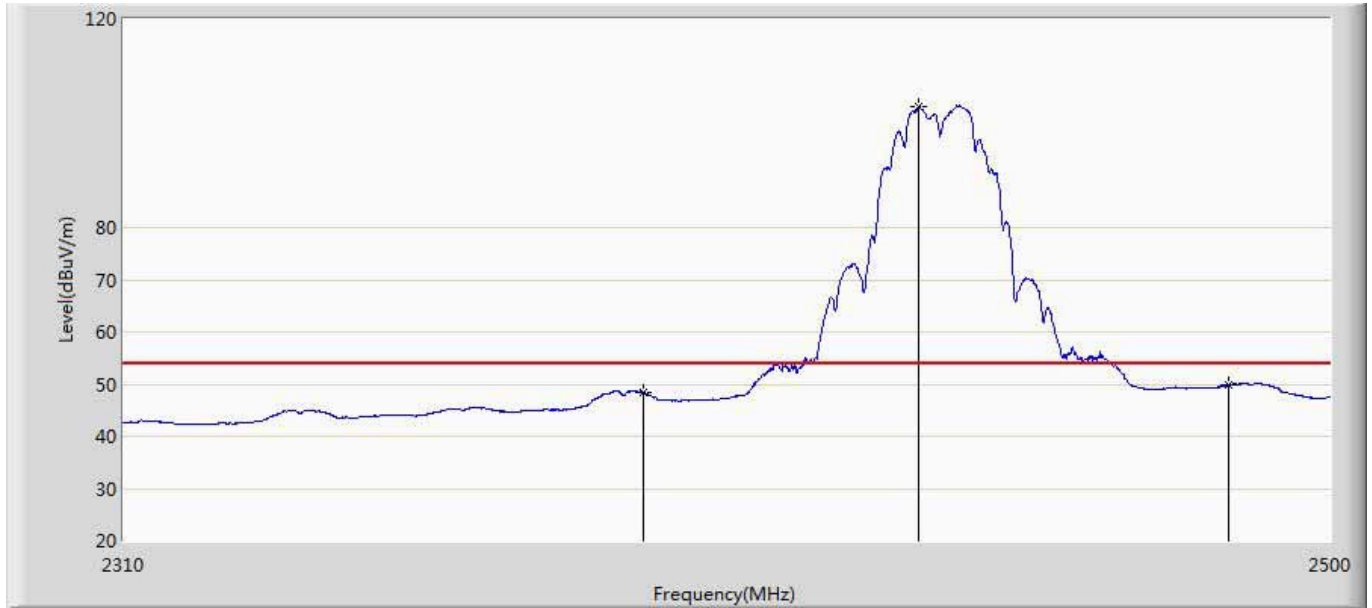
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	48.782	13.100	-5.218	54.000	35.682	AV
2	*	2439.675	104.178	68.373	50.178	54.000	35.806	AV
3		2483.500	50.827	14.935	-3.173	54.000	35.891	AV

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 10:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode1: Transmit at channel2437MHz by 802.11b	



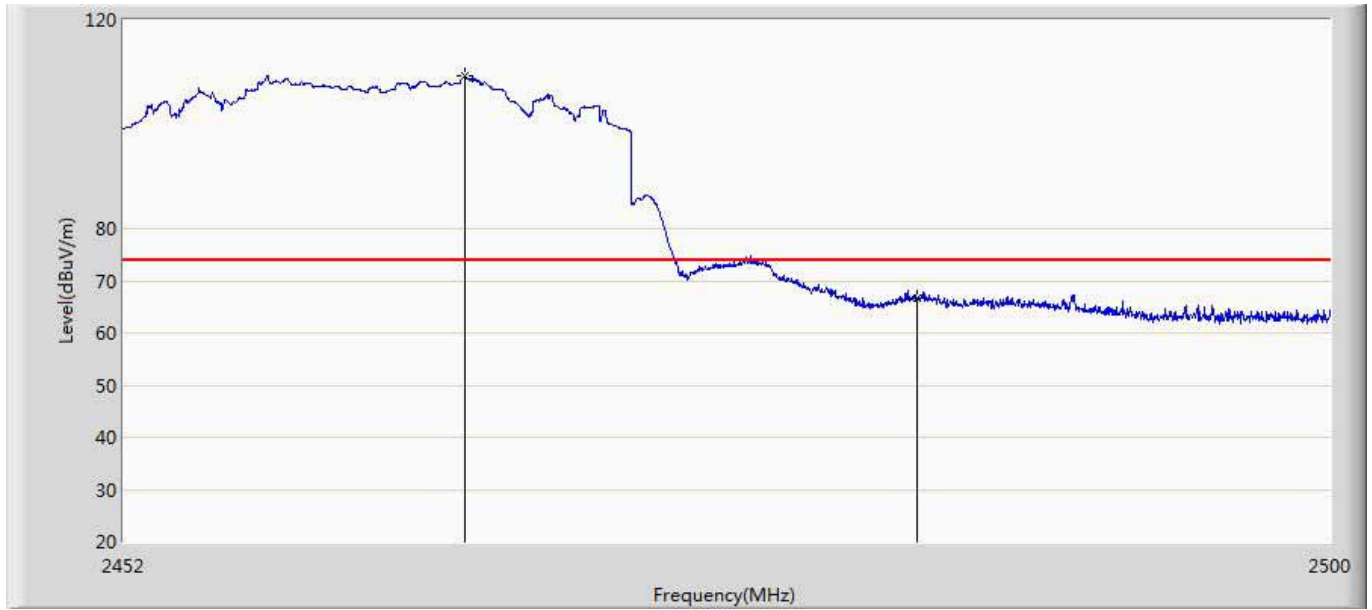
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	62.008	26.326	-11.992	74.000	35.682	PK
2	*	2433.405	108.686	72.879	34.686	74.000	35.807	PK
3		2483.500	64.231	28.339	-9.769	74.000	35.891	PK

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 10:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode1: Transmit at channel2437MHz by 802.11b	



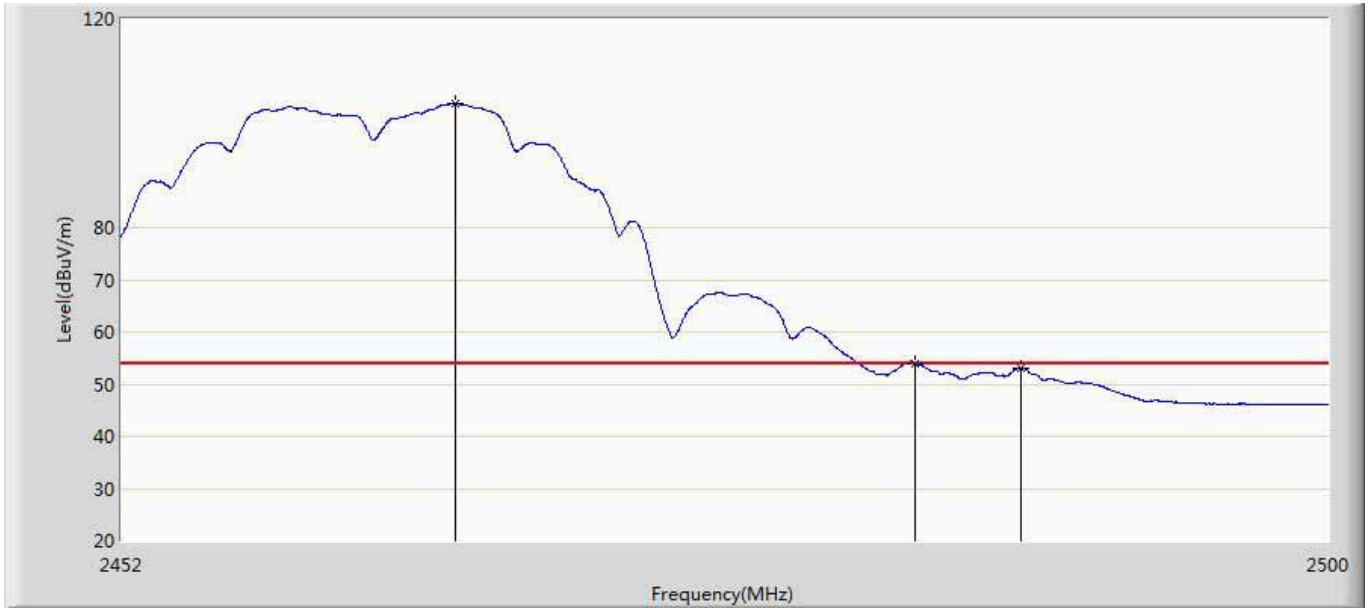
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	48.311	12.629	-5.689	54.000	35.682	AV
2	*	2433.595	103.077	67.270	49.077	54.000	35.807	AV
3		2483.500	49.786	13.894	-4.214	54.000	35.891	AV

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 10:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode1: Transmit at channel2462MHz by 802.11b	



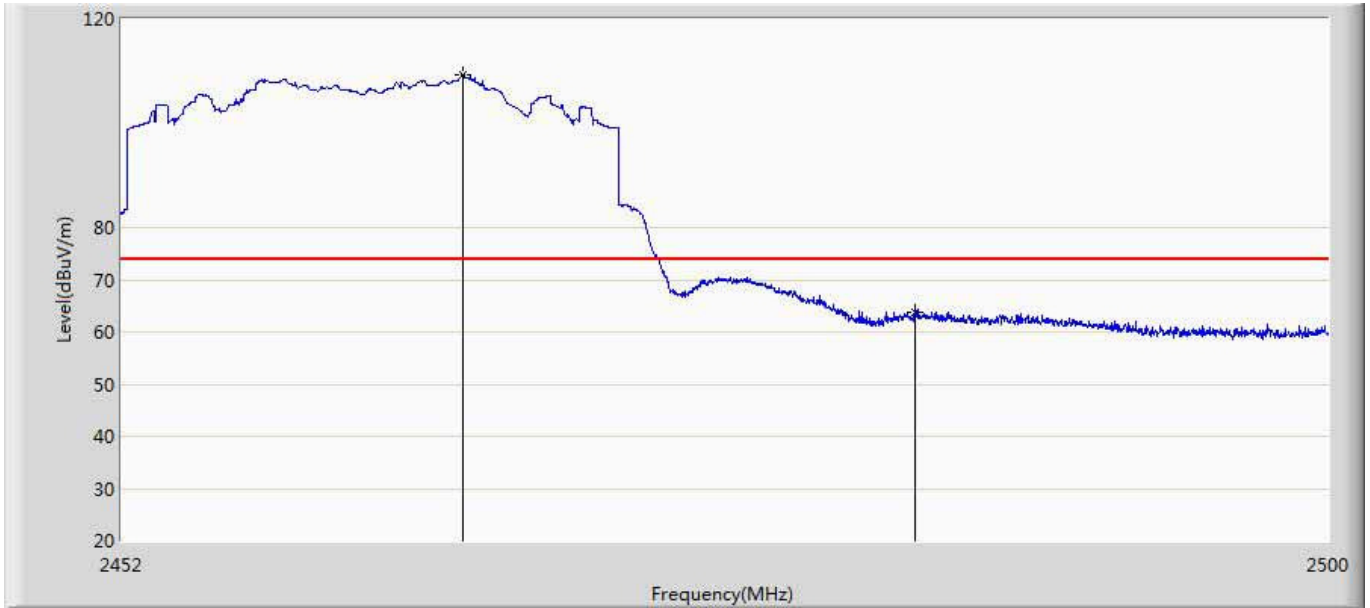
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2465.488	109.163	73.289	35.163	74.000	35.874	PK
2		2483.500	66.534	30.642	-7.466	74.000	35.891	PK

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 10:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode1: Transmit at channel2462MHz by 802.11b	



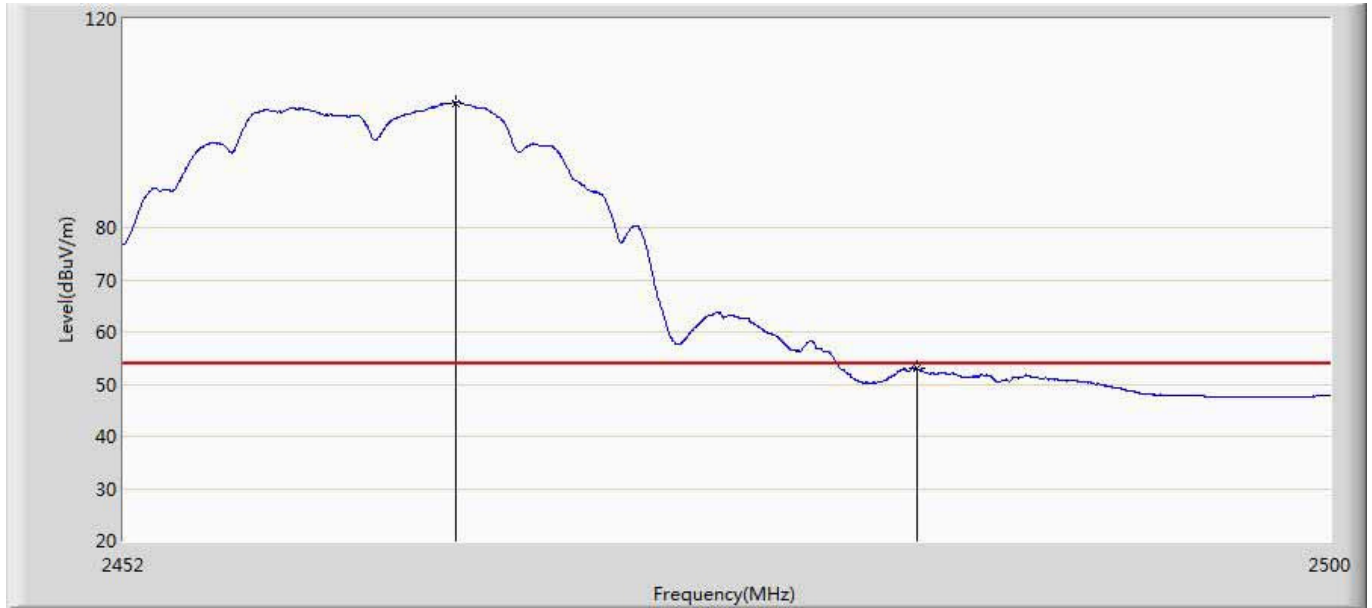
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2465.176	103.889	68.014	49.889	54.000	35.875	AV
2		2483.500	53.963	18.071	-0.037	54.000	35.891	AV
3		2487.712	53.159	17.237	-0.841	54.000	35.922	AV

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 10:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode1: Transmit at channel2462MHz by 802.11b	



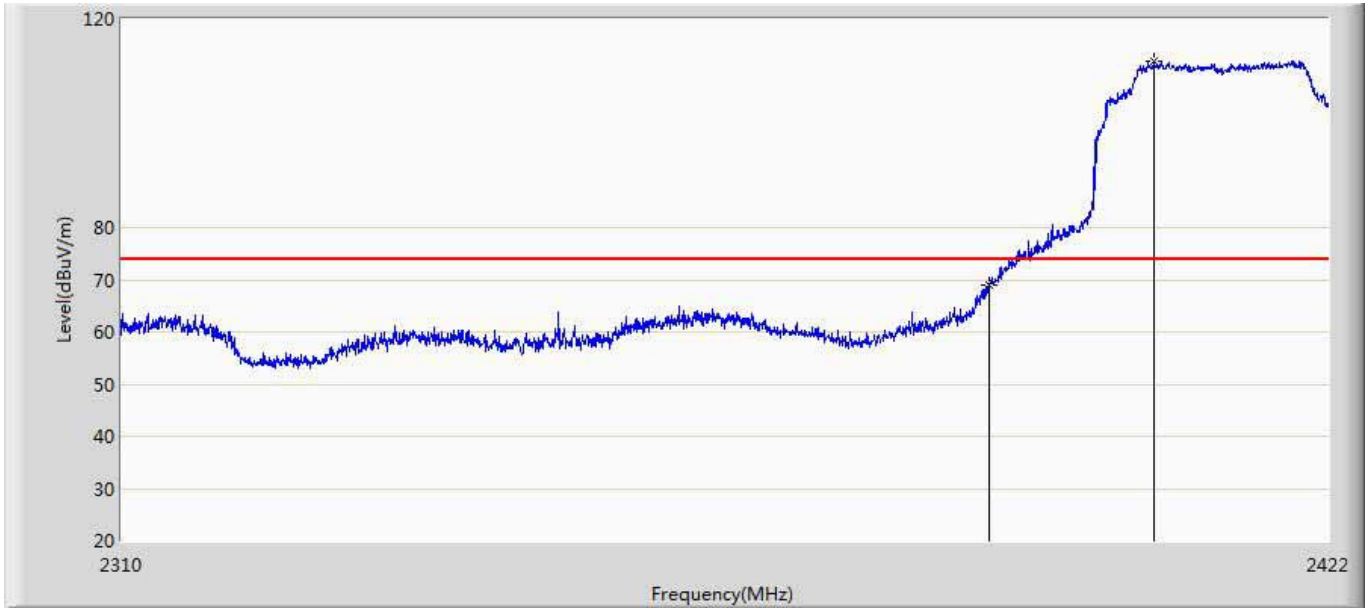
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2465.488	109.355	73.481	35.355	74.000	35.874	PK
2		2483.500	63.820	27.928	-10.180	74.000	35.891	PK

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 10:42
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode1: Transmit at channel2462MHz by 802.11b	



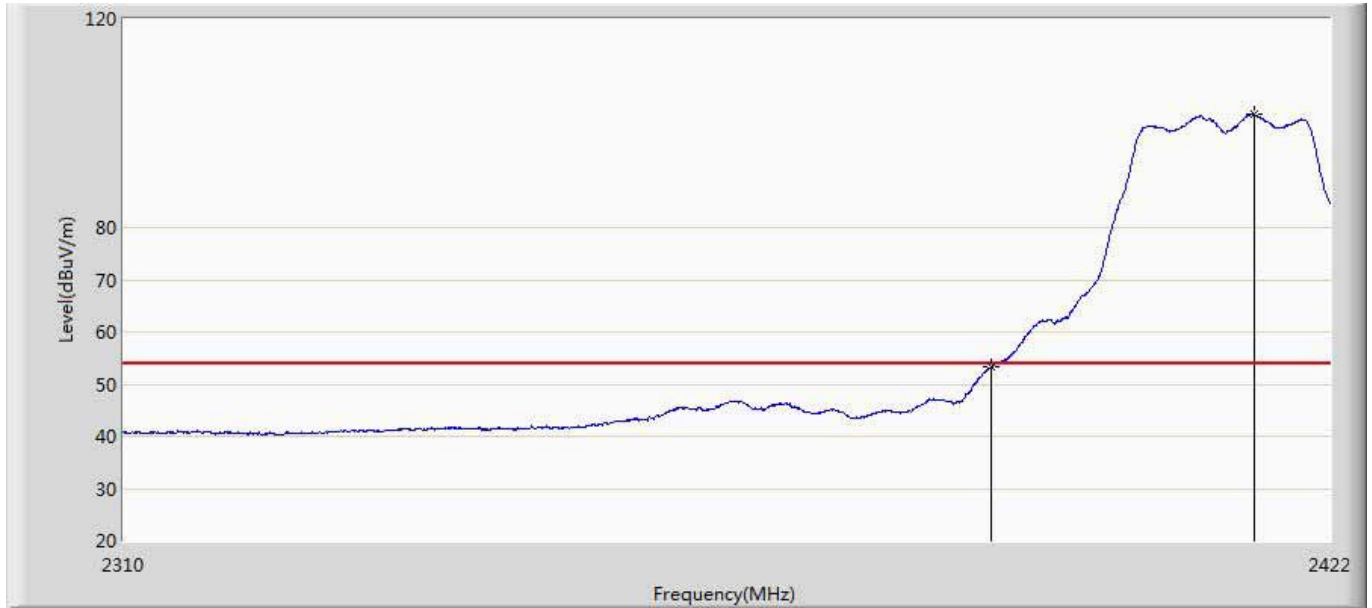
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2465.128	103.729	67.854	49.729	54.000	35.875	AV
2		2483.500	52.903	17.011	-1.097	54.000	35.891	AV

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 10:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode2: Transmit at channel2412MHz by 802.11g	



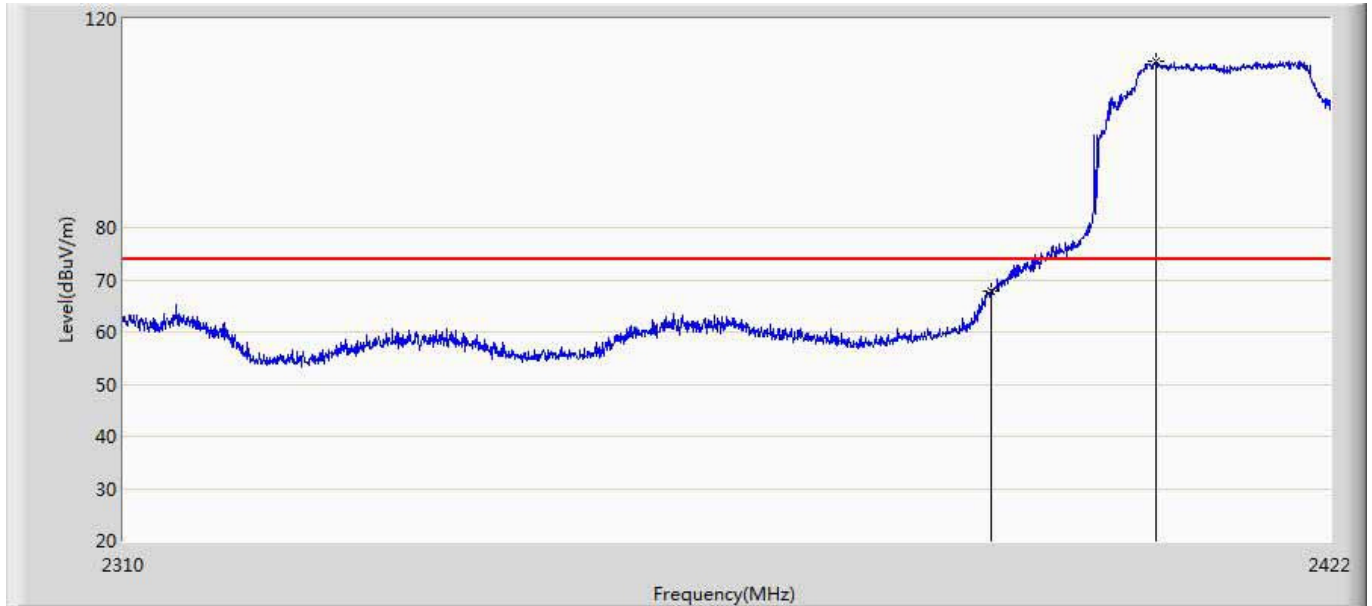
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	68.963	33.281	-5.037	74.000	35.682	PK
2	*	2405.536	111.772	76.050	37.772	74.000	35.723	PK

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 10:52
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode2: Transmit at channel2412MHz by 802.11g	



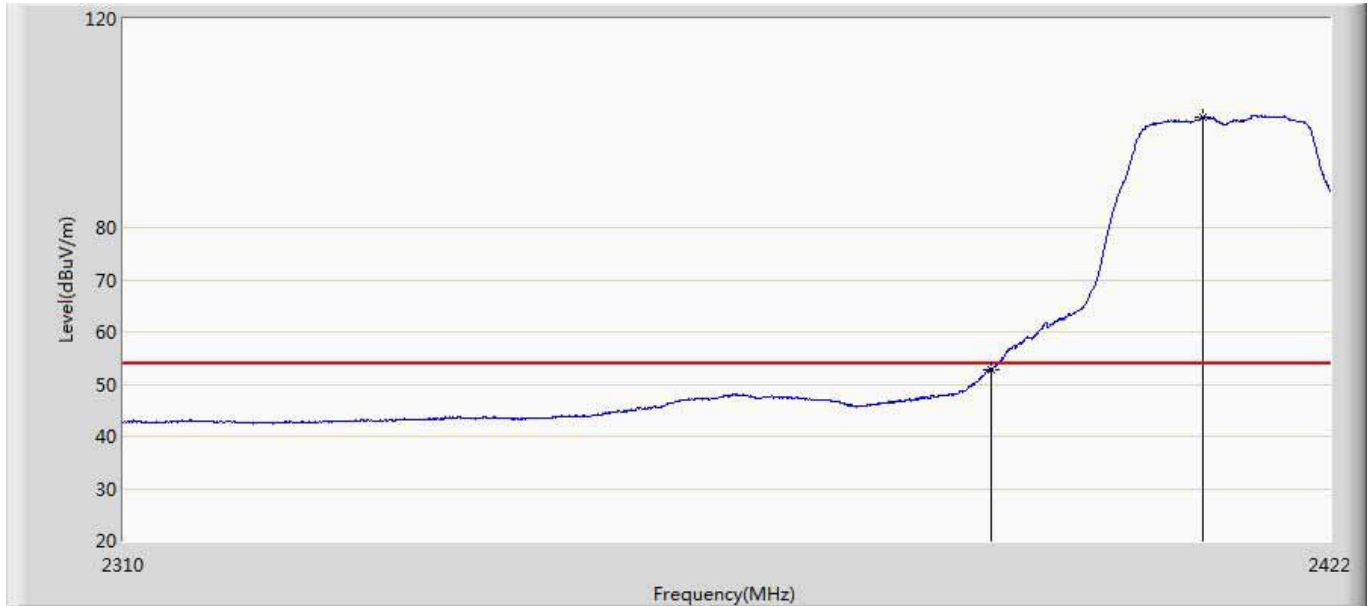
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.249	17.567	-0.751	54.000	35.682	AV
2	*	2414.776	101.692	65.939	47.692	54.000	35.753	AV

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 11:03
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode2: Transmit at channel2412MHz by 802.11g	



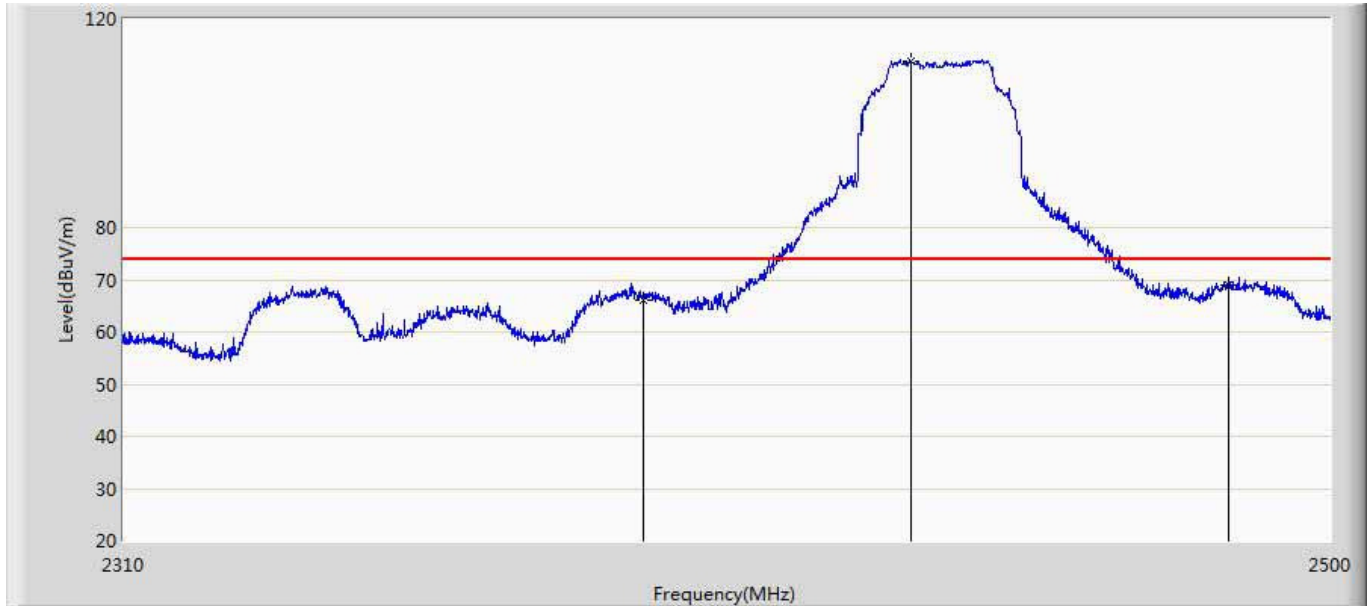
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	67.862	32.180	-6.138	74.000	35.682	PK
2	*	2405.536	111.772	76.050	37.772	74.000	35.723	PK

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 11:05
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode2: Transmit at channel2412MHz by 802.11g	



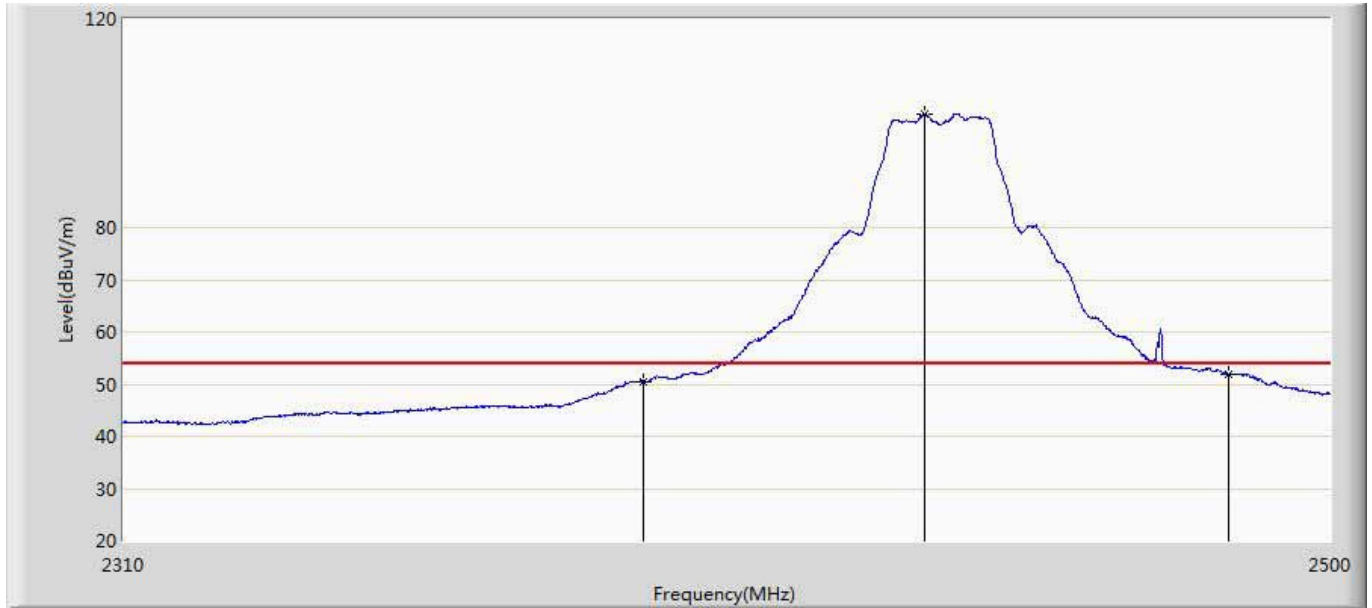
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	52.751	17.069	-1.249	54.000	35.682	AV
2	*	2410.016	101.248	65.513	47.248	54.000	35.735	AV

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 11:07
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode2: Transmit at channel2437MHz by 802.11g	



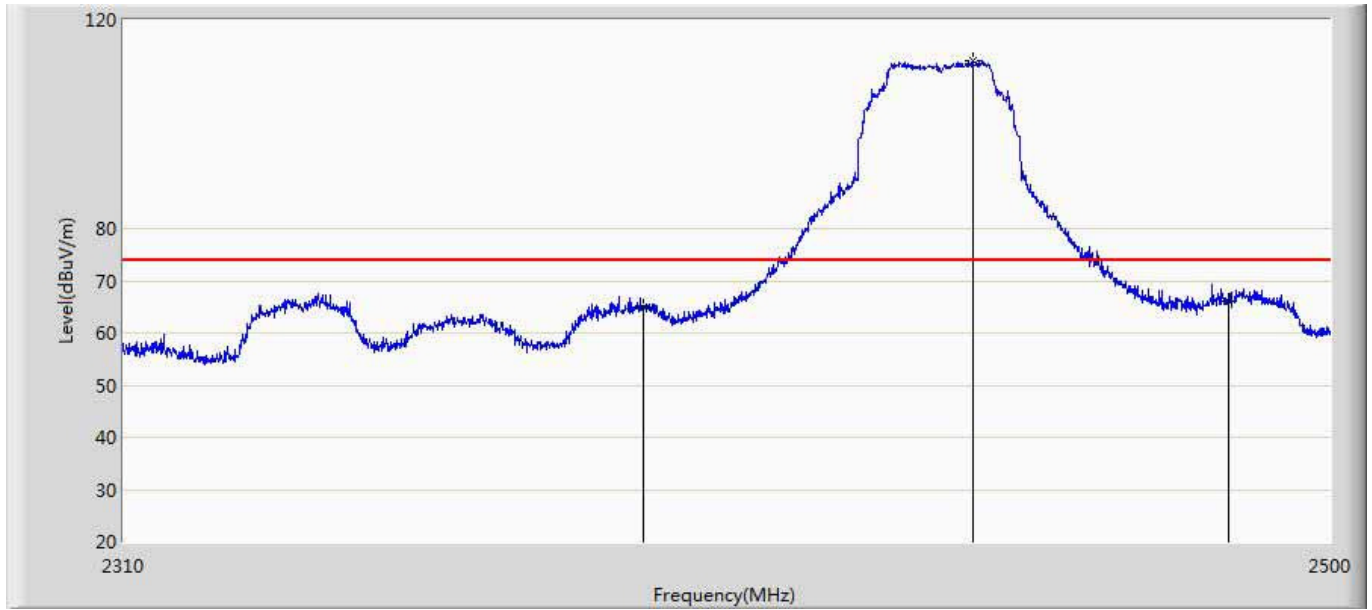
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	65.957	30.275	-8.043	74.000	35.682	PK
2	*	2432.455	111.825	76.018	37.825	74.000	35.807	PK
3		2483.500	68.896	33.004	-5.104	74.000	35.891	PK

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 11:10
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode2: Transmit at channel2437MHz by 802.11g	



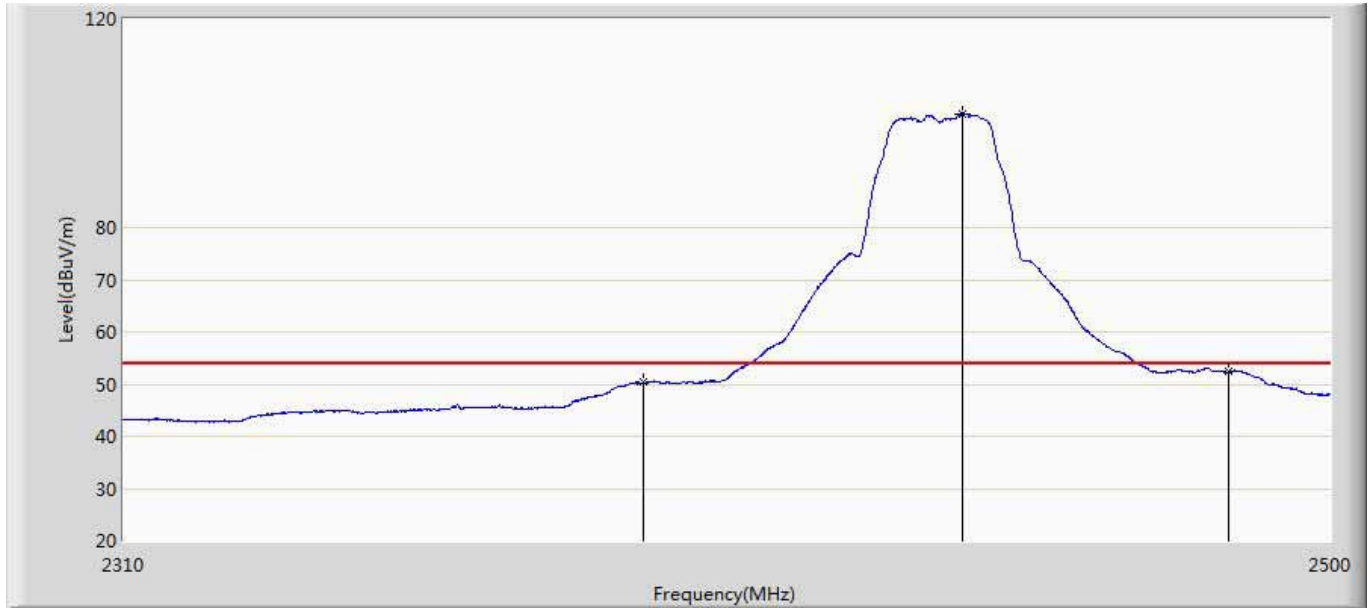
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	50.449	14.767	-3.551	54.000	35.682	AV
2	*	2434.545	101.749	65.942	47.749	54.000	35.807	AV
3		2483.500	51.822	15.930	-2.178	54.000	35.891	AV

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 11:15
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode2: Transmit at channel2437MHz by 802.11g	



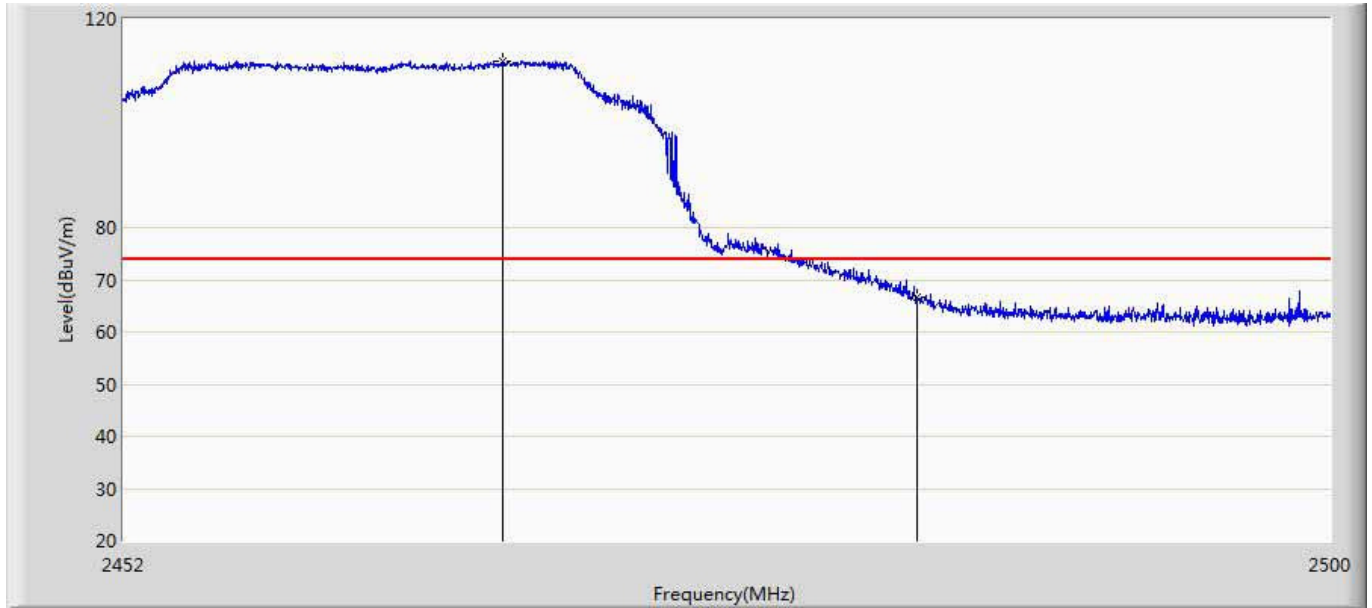
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	64.923	29.241	-9.077	74.000	35.682	PK
2	*	2442.145	112.070	76.265	38.070	74.000	35.805	PK
3		2483.500	66.032	30.140	-7.968	74.000	35.891	PK

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 11:13
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode2: Transmit at channel2437MHz by 802.11g	



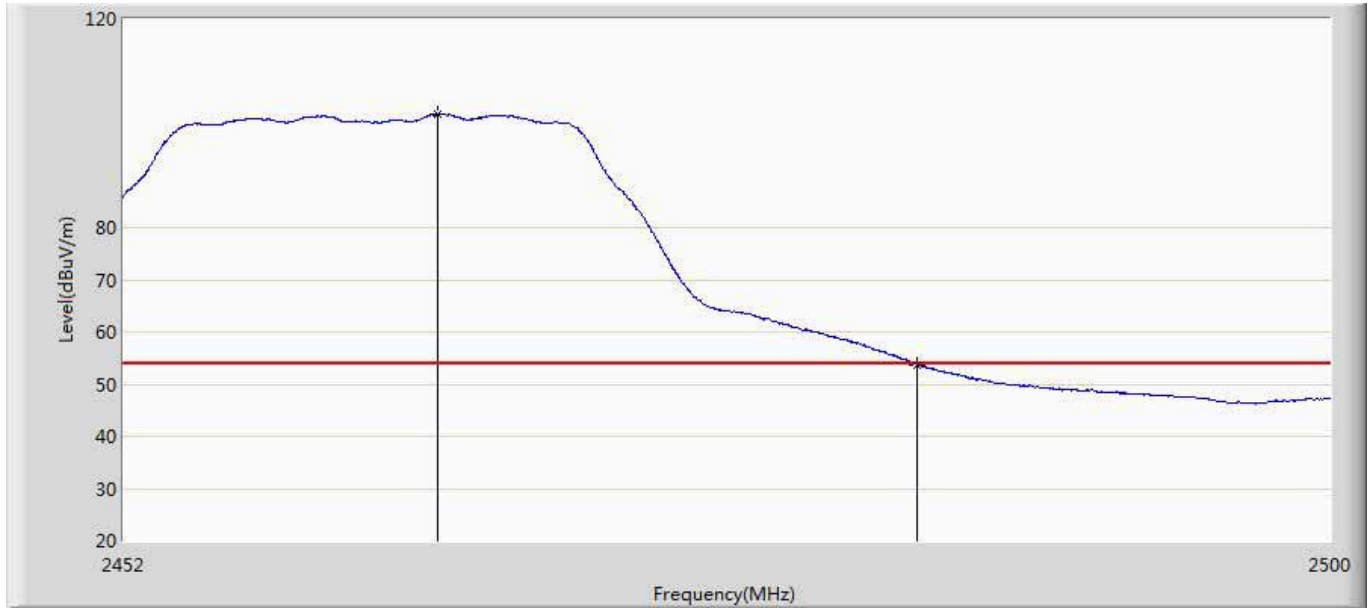
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	50.339	14.657	-3.661	54.000	35.682	AV
2	*	2440.435	101.877	66.072	47.877	54.000	35.806	AV
3		2483.500	52.356	16.464	-1.644	54.000	35.891	AV

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 11:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode2: Transmit at channel2462MHz by 802.11g	



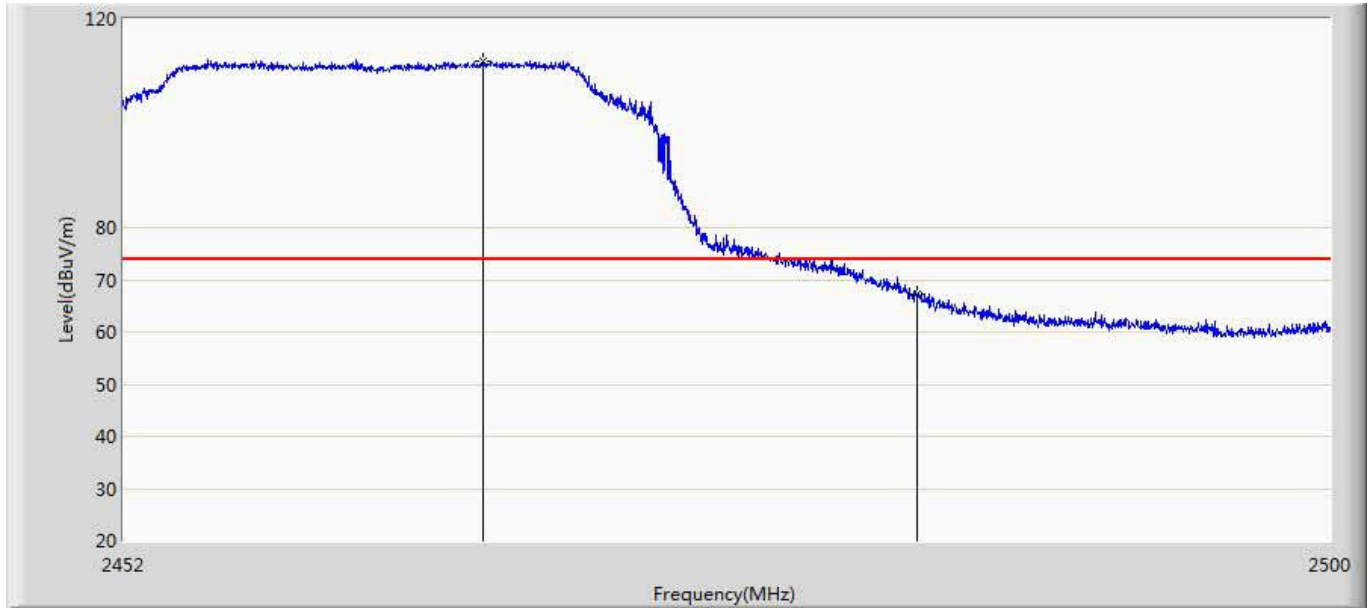
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2467.024	111.818	75.945	37.818	74.000	35.872	PK
2		2483.500	66.581	30.689	-7.419	74.000	35.891	PK

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 11:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode2: Transmit at channel2462MHz by 802.11g	



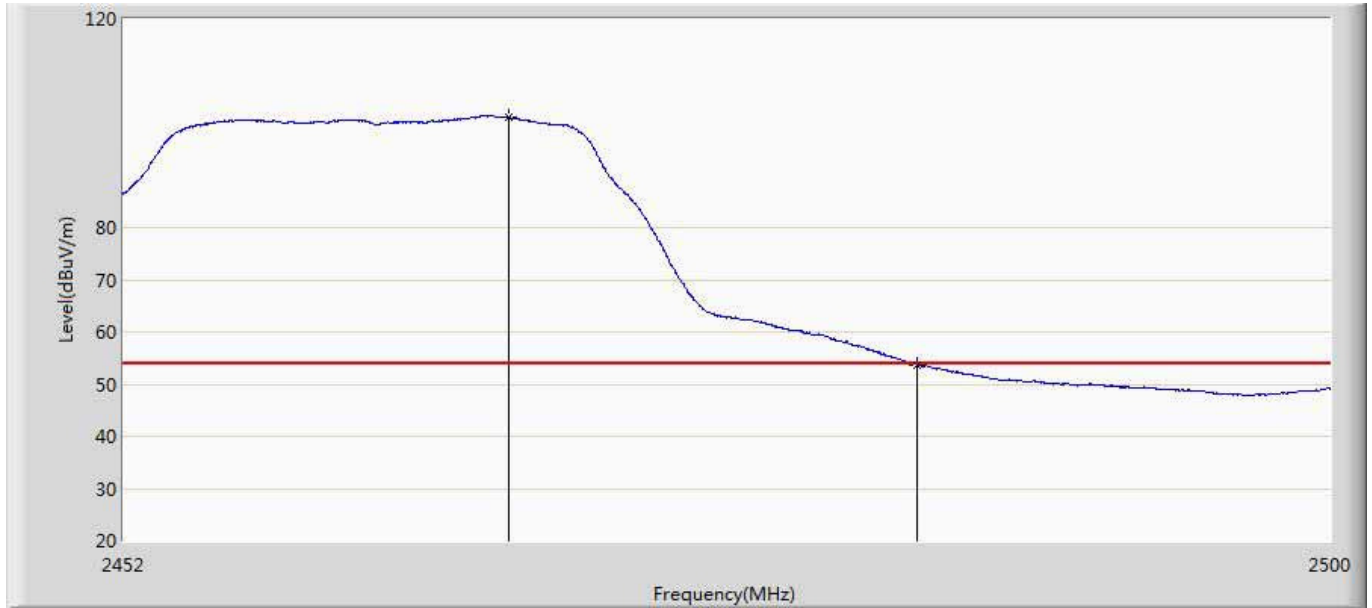
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2464.432	101.734	65.858	47.734	54.000	35.876	AV
2		2483.500	53.697	17.805	-0.303	54.000	35.891	AV

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 11:30
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode2: Transmit at channel2462MHz by 802.11g	



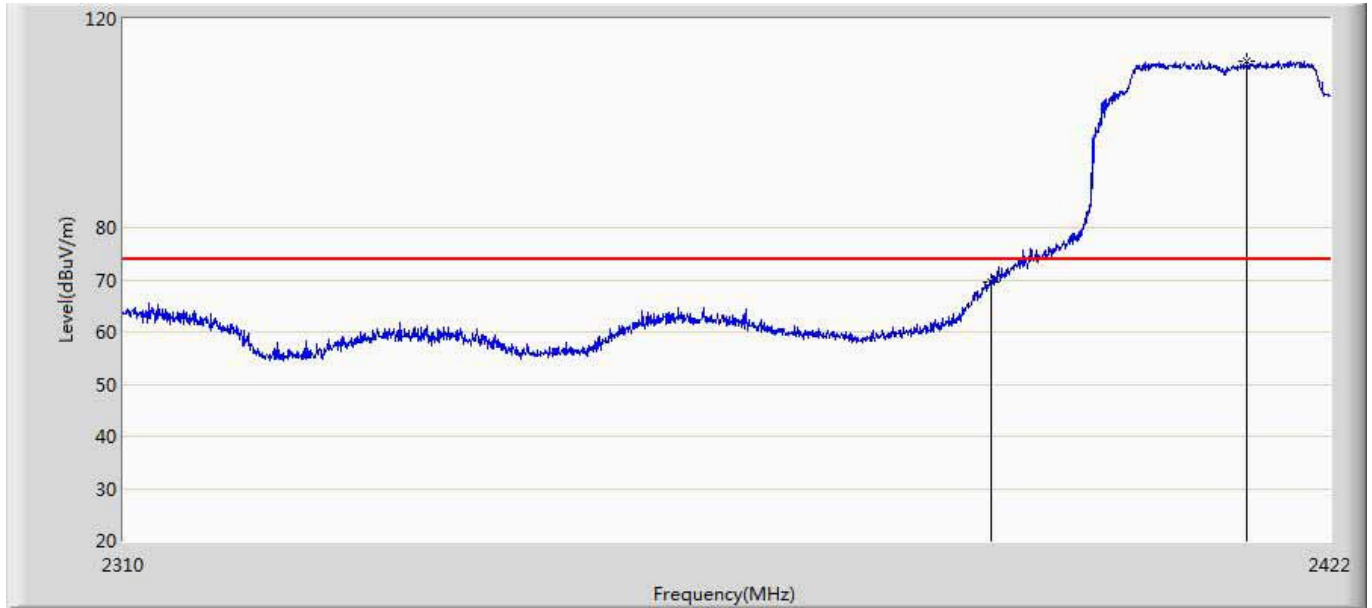
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2466.232	111.869	75.995	37.869	74.000	35.873	PK
2		2483.500	67.245	31.353	-6.755	74.000	35.891	PK

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 11:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode2: Transmit at channel2462MHz by 802.11g	



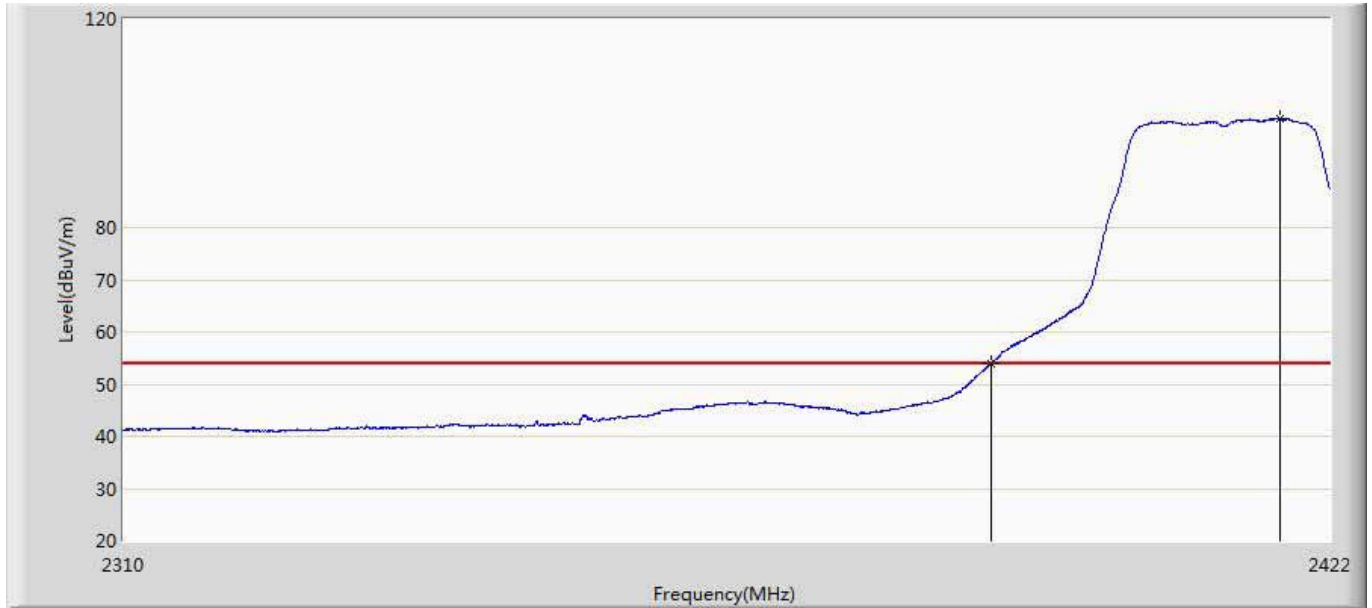
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2467.264	101.040	65.168	47.040	54.000	35.873	AV
2		2483.500	53.606	17.714	-0.394	54.000	35.891	AV

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 13:02
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode3: Transmit at channel2412MHz by 802.11n20	



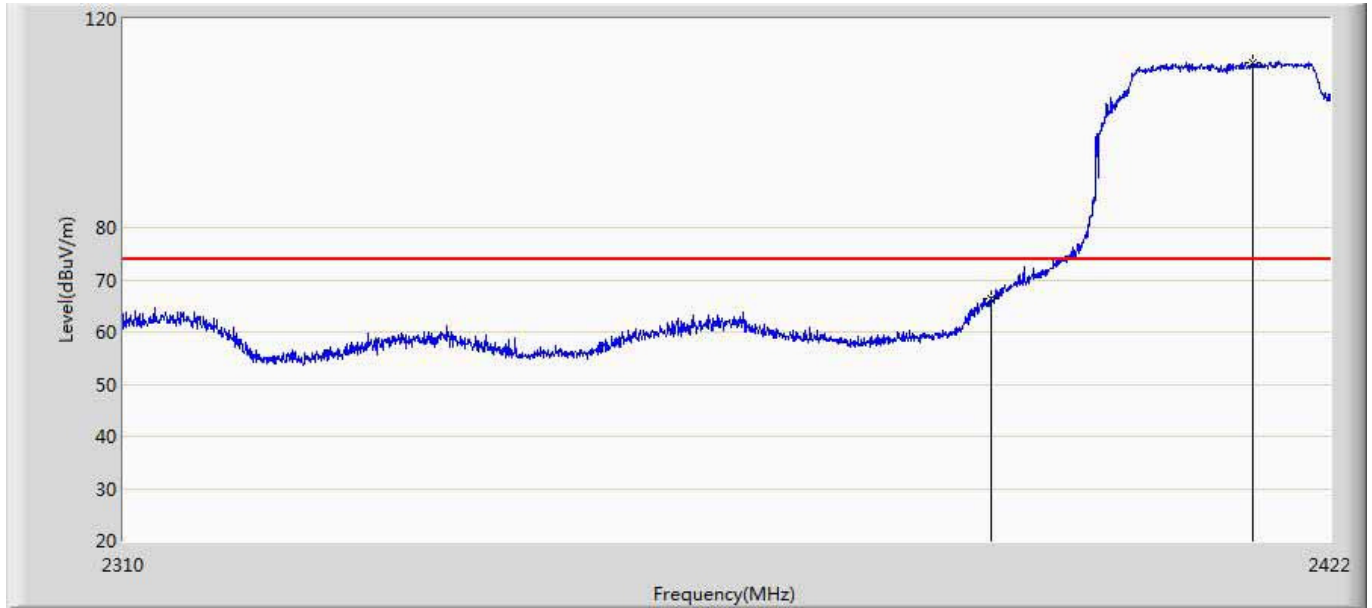
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	69.588	33.906	-4.412	74.000	35.682	PK
2	*	2414.160	111.927	76.177	37.927	74.000	35.751	PK

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 13:07
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode3: Transmit at channel2412MHz by 802.11n20	



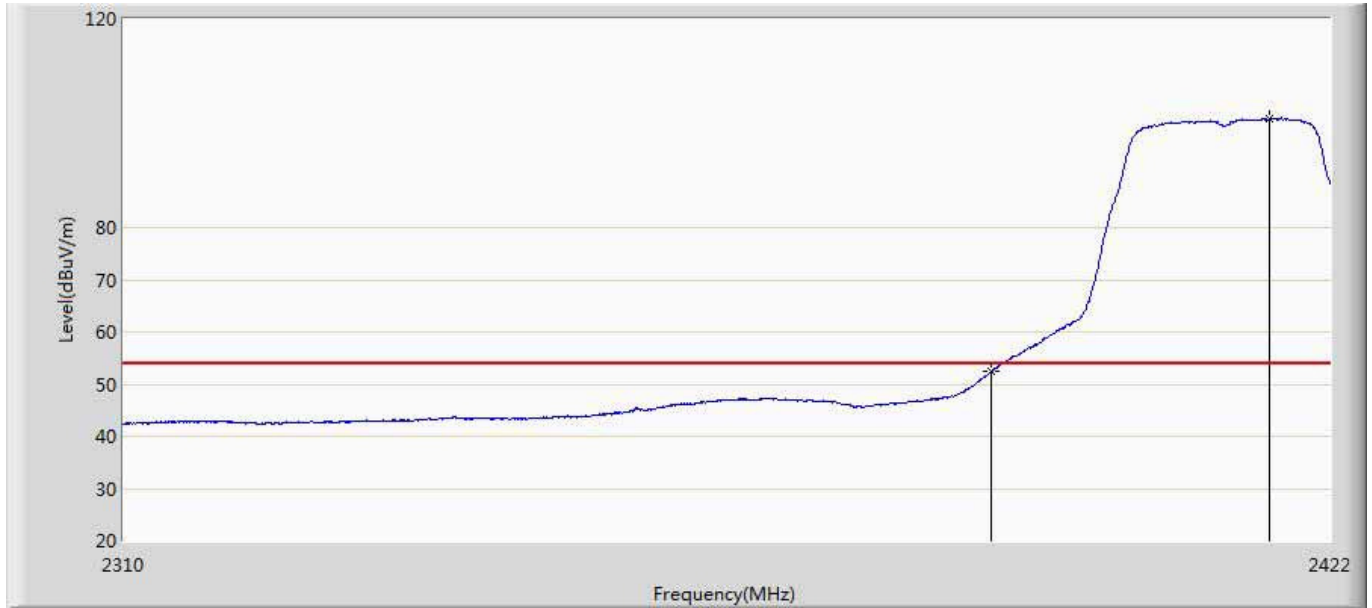
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.992	18.310	-0.008	54.000	35.682	AV
2	*	2417.296	100.913	65.149	46.913	54.000	35.764	AV

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 13:18
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode3: Transmit at channel2412MHz by 802.11n20	



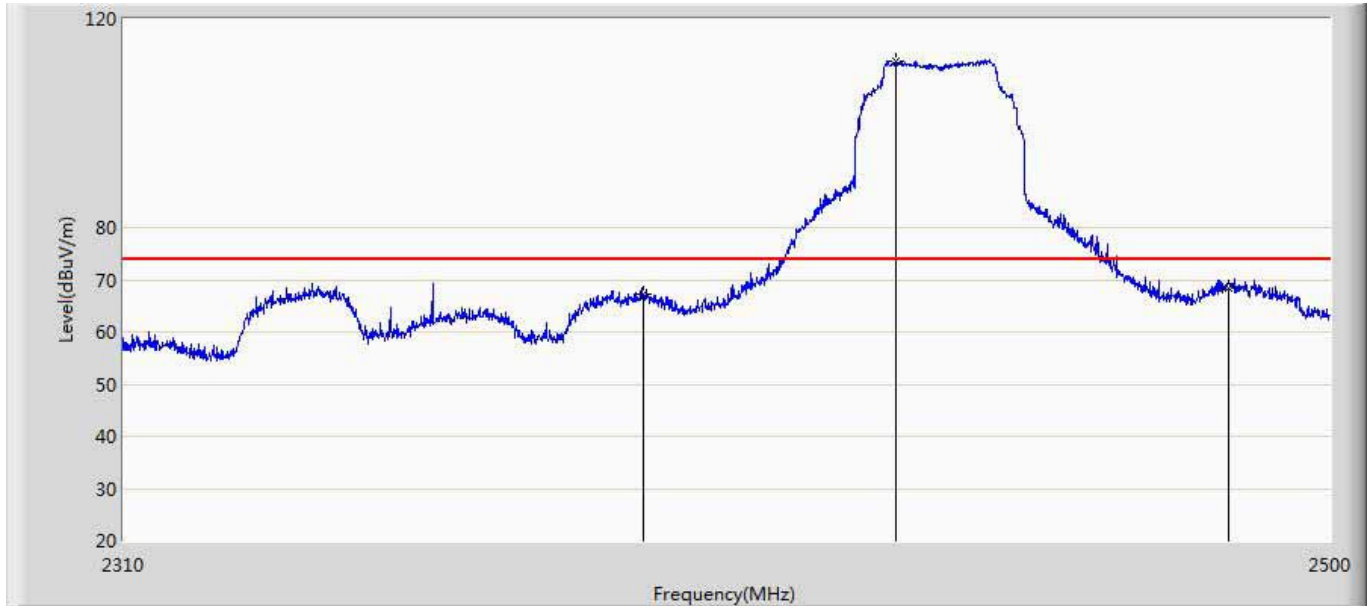
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	66.368	30.686	-7.632	74.000	35.682	PK
2	*	2414.720	111.651	75.898	37.651	74.000	35.753	PK

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 13:16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode3: Transmit at channel2412MHz by 802.11n20	



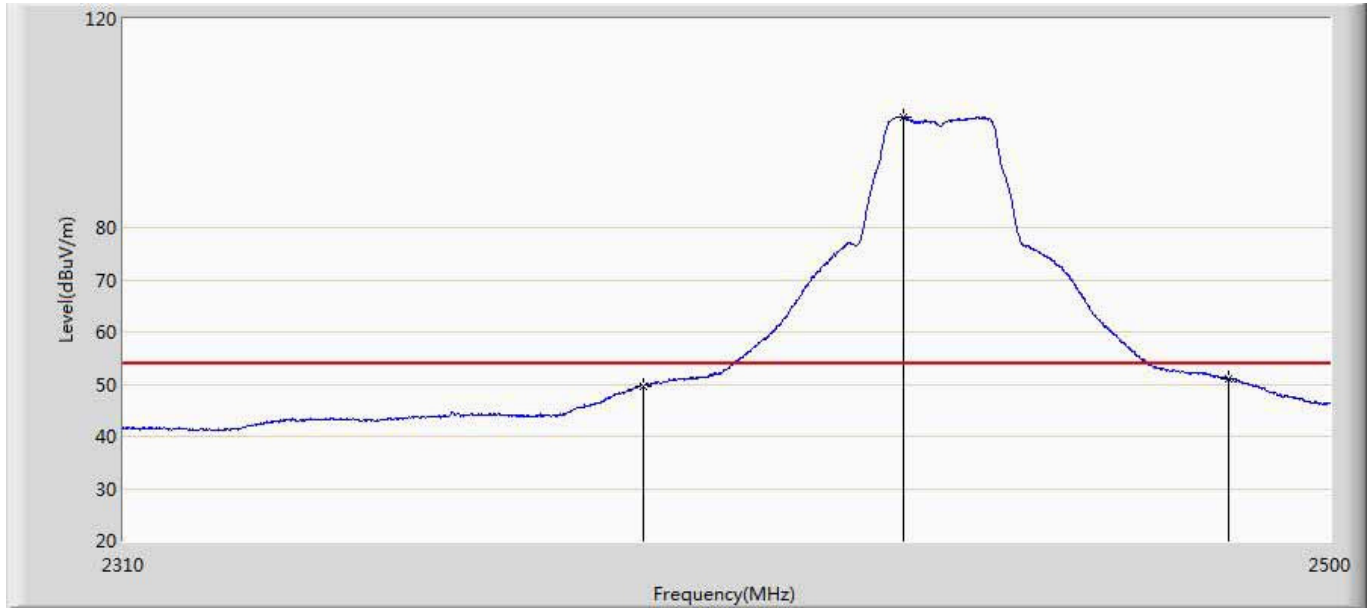
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	52.347	16.665	-1.653	54.000	35.682	AV
2	*	2416.232	100.950	65.191	46.950	54.000	35.759	AV

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 13:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode3: Transmit at channel2437MHz by 802.11n20	



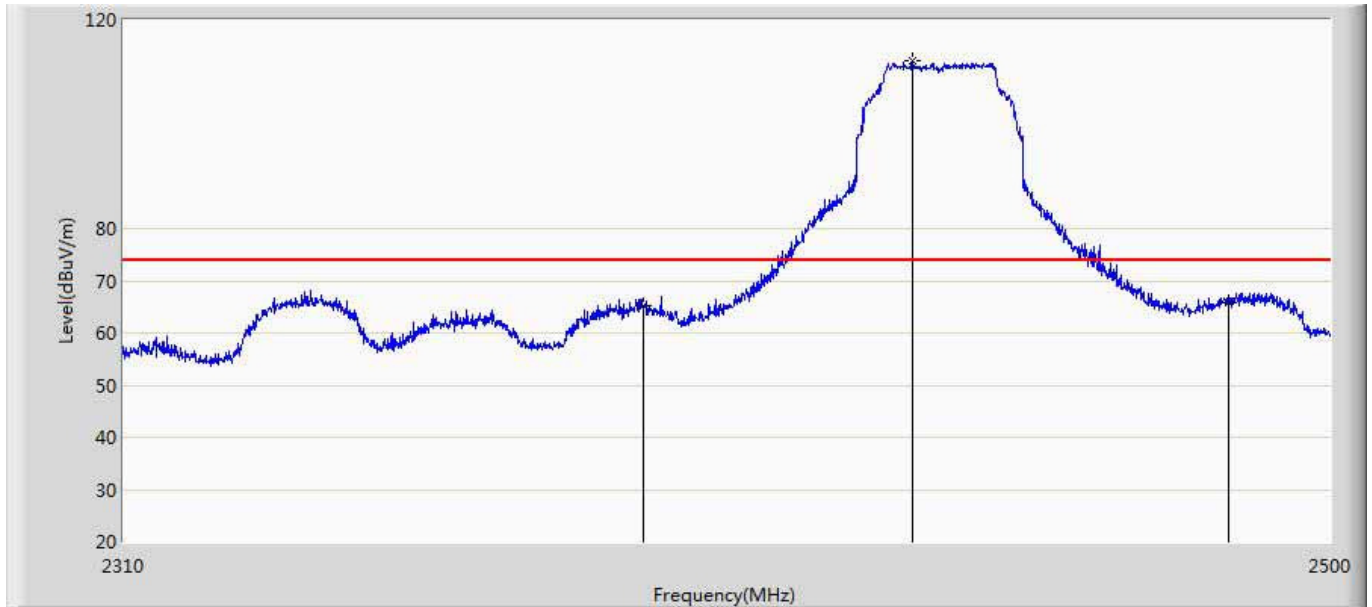
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	67.237	31.555	-6.763	74.000	35.682	PK
2	*	2429.985	111.859	76.051	37.859	74.000	35.808	PK
3		2483.500	68.463	32.571	-5.537	74.000	35.891	PK

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 13:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode3: Transmit at channel2437MHz by 802.11n20	



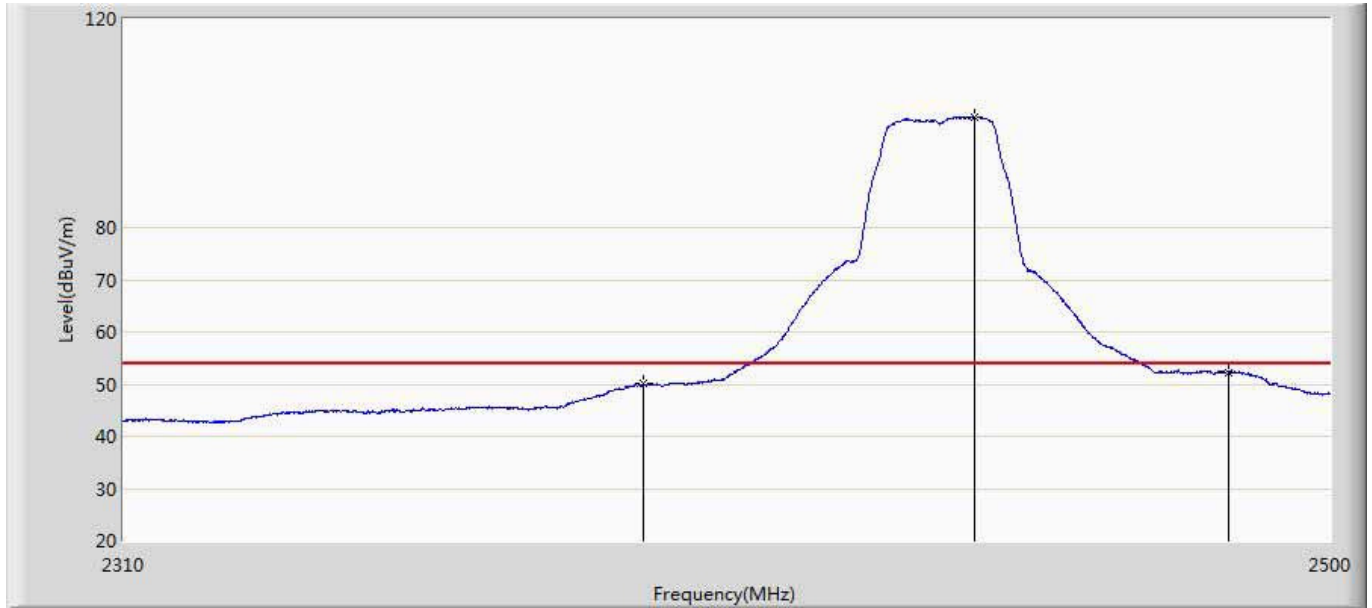
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	49.598	13.916	-4.402	54.000	35.682	AV
2	*	2431.125	101.225	65.417	47.225	54.000	35.808	AV
3		2483.500	50.915	15.023	-3.085	54.000	35.891	AV

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 13:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode3: Transmit at channel2437MHz by 802.11n20	



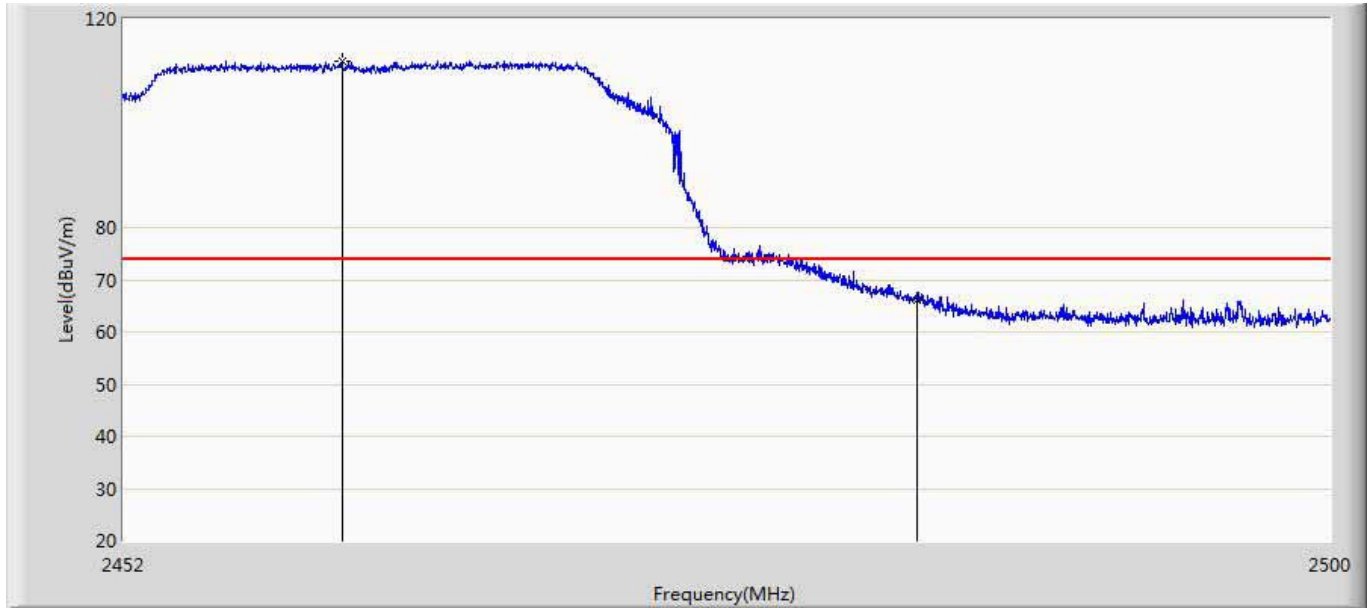
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	65.132	29.450	-8.868	74.000	35.682	PK
2	*	2432.550	112.071	76.264	38.071	74.000	35.807	PK
3		2483.500	65.739	29.847	-8.261	74.000	35.891	PK

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 13:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode3: Transmit at channel2437MHz by 802.11n20	



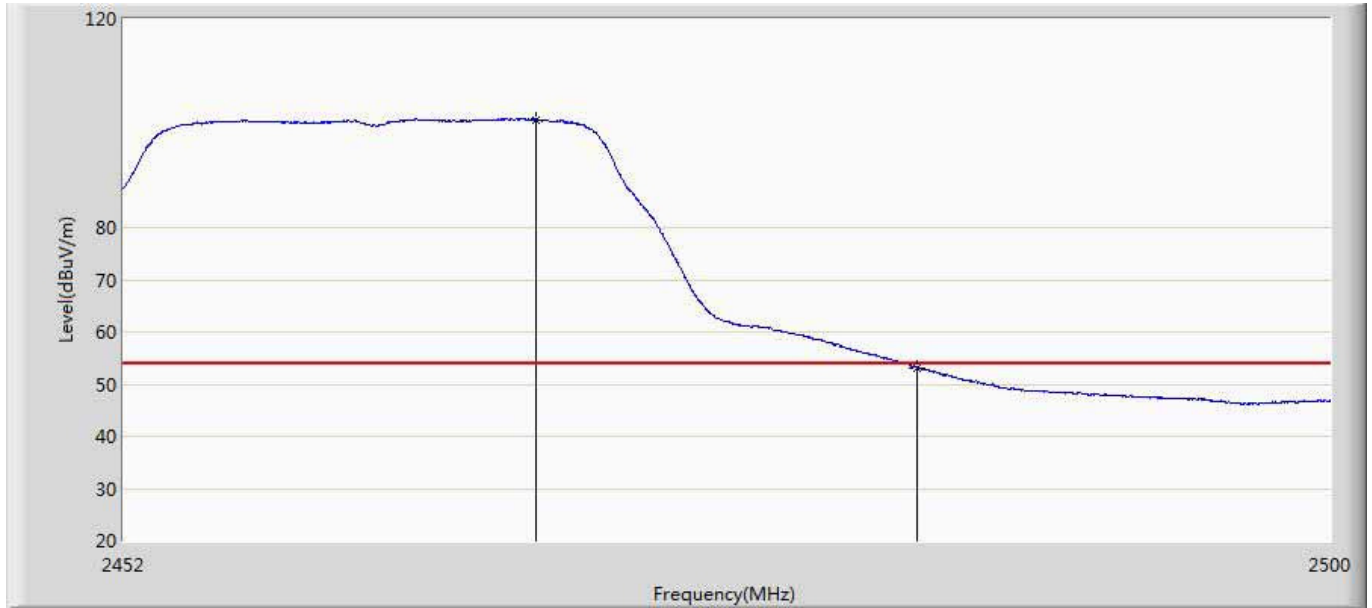
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	50.072	14.390	-3.928	54.000	35.682	AV
2	*	2442.525	101.277	65.472	47.277	54.000	35.805	AV
3		2483.500	52.292	16.400	-1.708	54.000	35.891	AV

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 13:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode3: Transmit at channel2462MHz by 802.11n20	



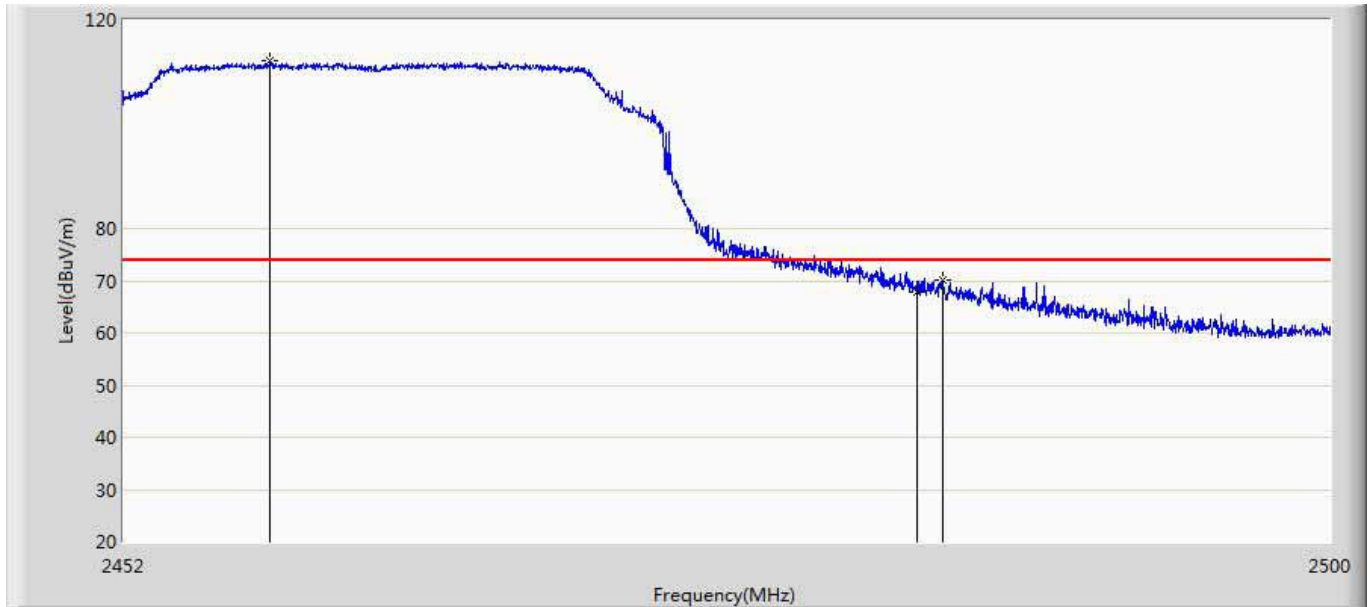
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2460.640	111.889	76.017	37.889	74.000	35.872	PK
2		2483.500	66.114	30.222	-7.886	74.000	35.891	PK

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 13:31
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode3: Transmit at channel2462MHz by 802.11n20	



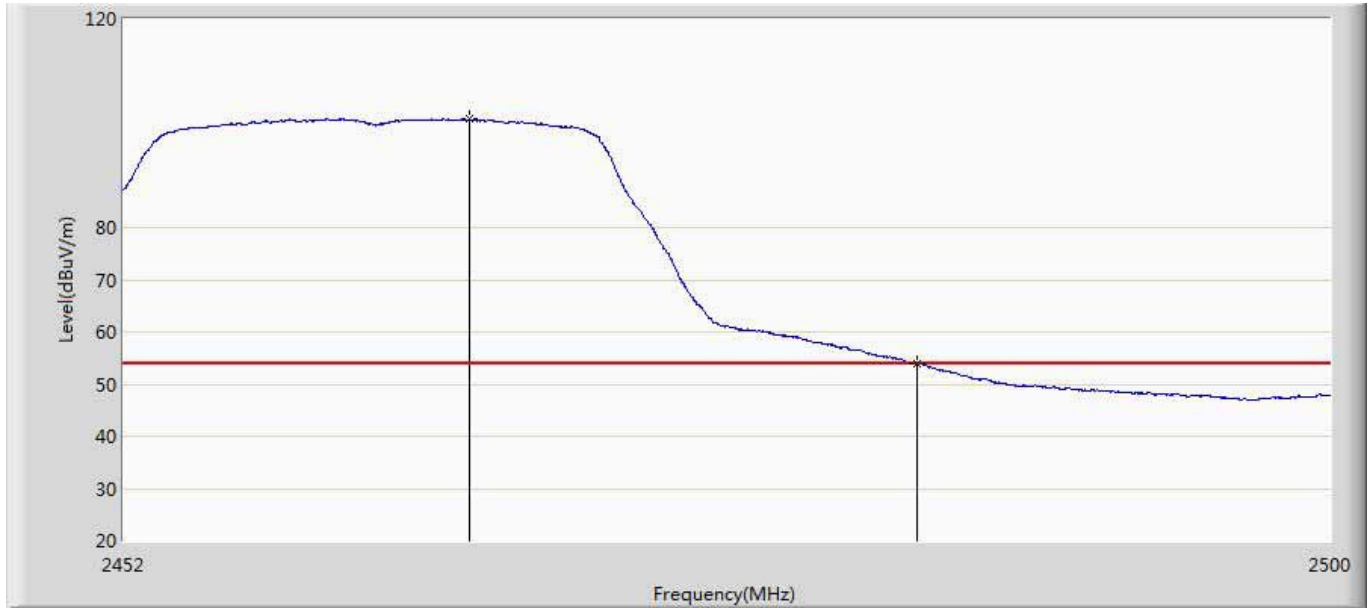
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2468.320	100.684	64.813	46.684	54.000	35.871	AV
2		2483.500	53.127	17.235	-0.873	54.000	35.891	AV

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 13:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode3: Transmit at channel2462MHz by 802.11n20	



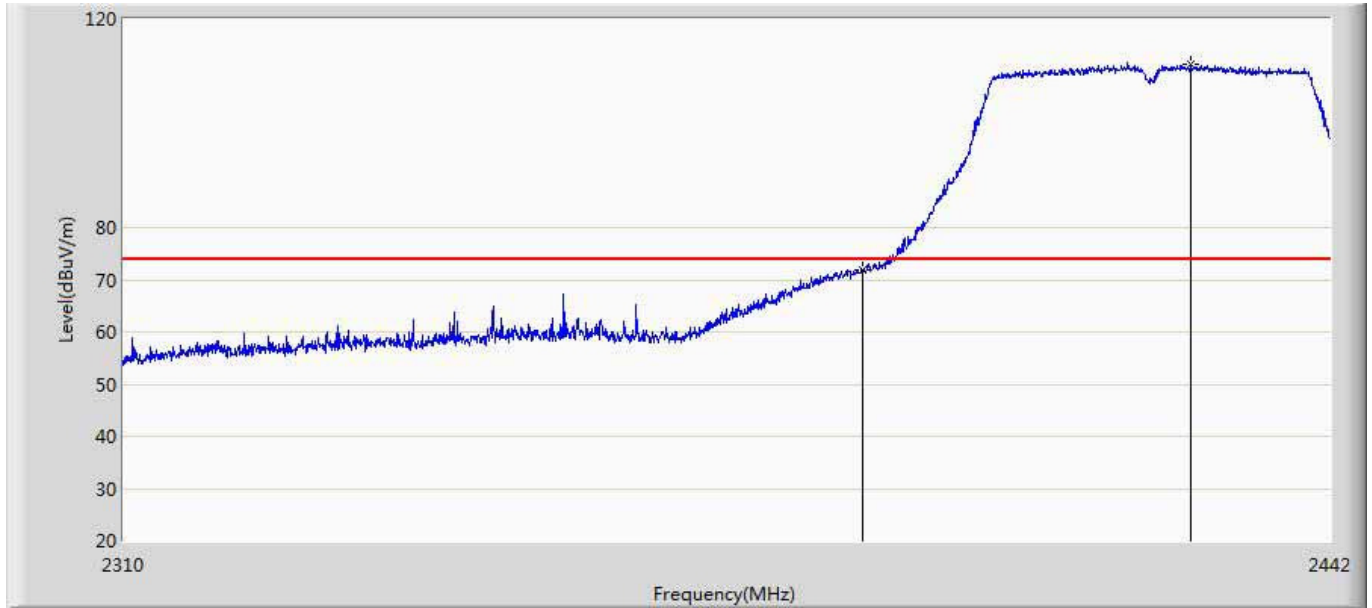
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2457.808	112.158	76.298	38.158	74.000	35.860	PK
2		2483.500	67.773	31.881	-6.227	74.000	35.891	PK
3		2484.520	70.002	34.103	-3.998	74.000	35.899	PK

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 13:33
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode3: Transmit at channel2462MHz by 802.11n20	



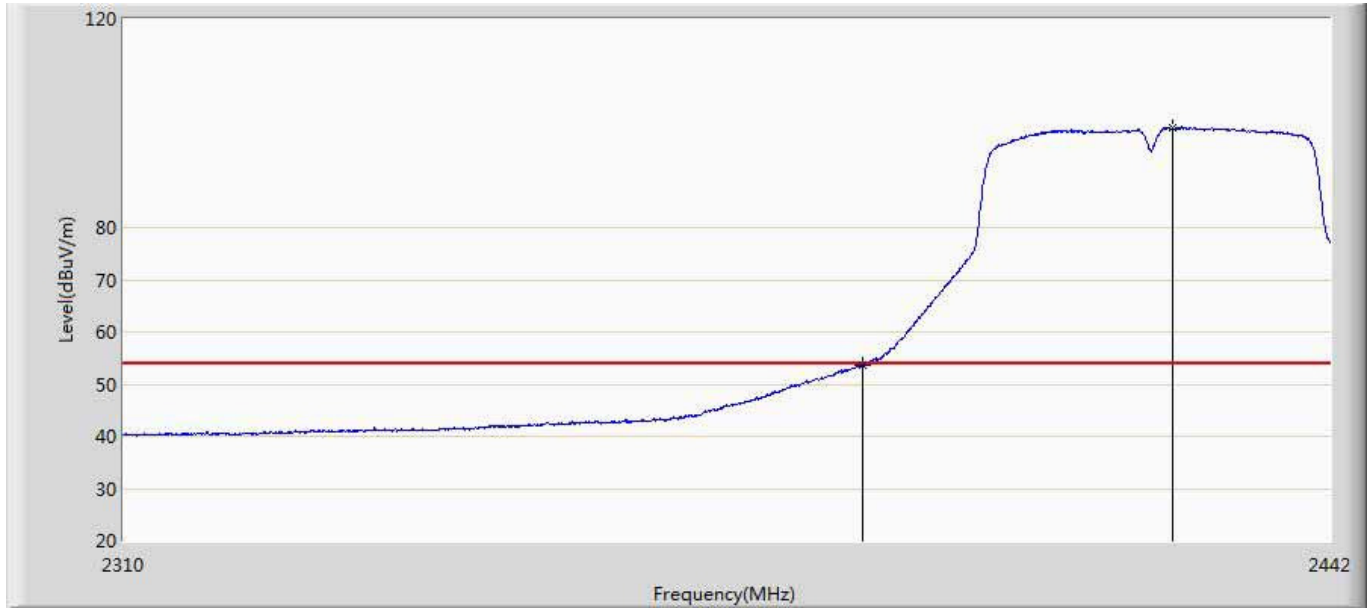
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2465.704	100.751	64.877	46.751	54.000	35.875	AV
2		2483.500	53.844	17.952	-0.156	54.000	35.891	AV

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 13:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode4: Transmit at channel2422MHz by 802.11n40	



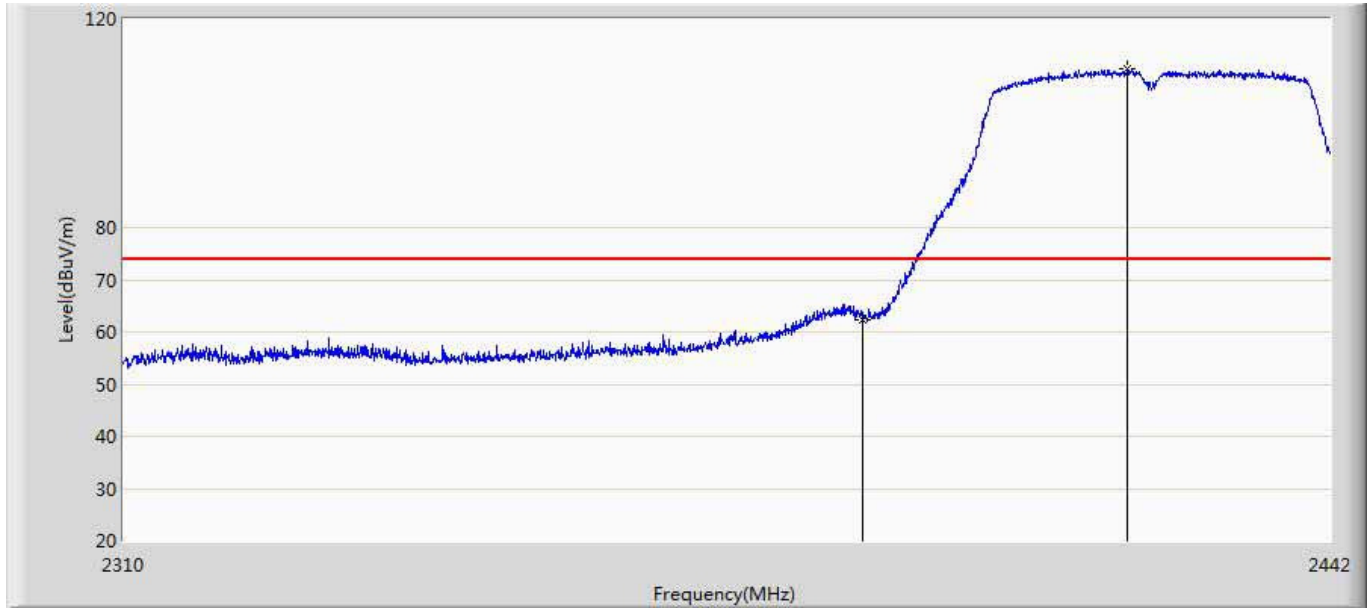
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	71.752	36.070	-2.248	74.000	35.682	PK
2	*	2426.424	111.316	75.514	37.316	74.000	35.802	PK

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 13:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode4: Transmit at channel2422MHz by 802.11n40	



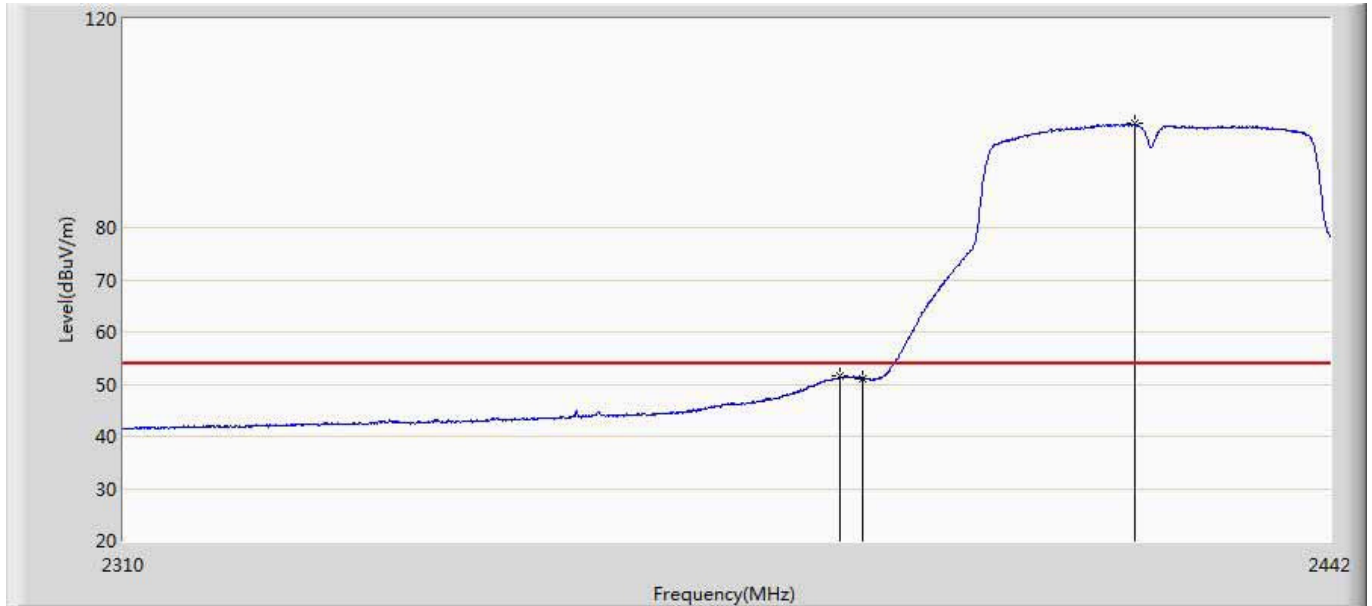
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.479	17.797	-0.521	54.000	35.682	AV
2	*	2424.312	99.119	63.326	45.119	54.000	35.793	AV

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 13:54
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode4: Transmit at channel2422MHz by 802.11n40	



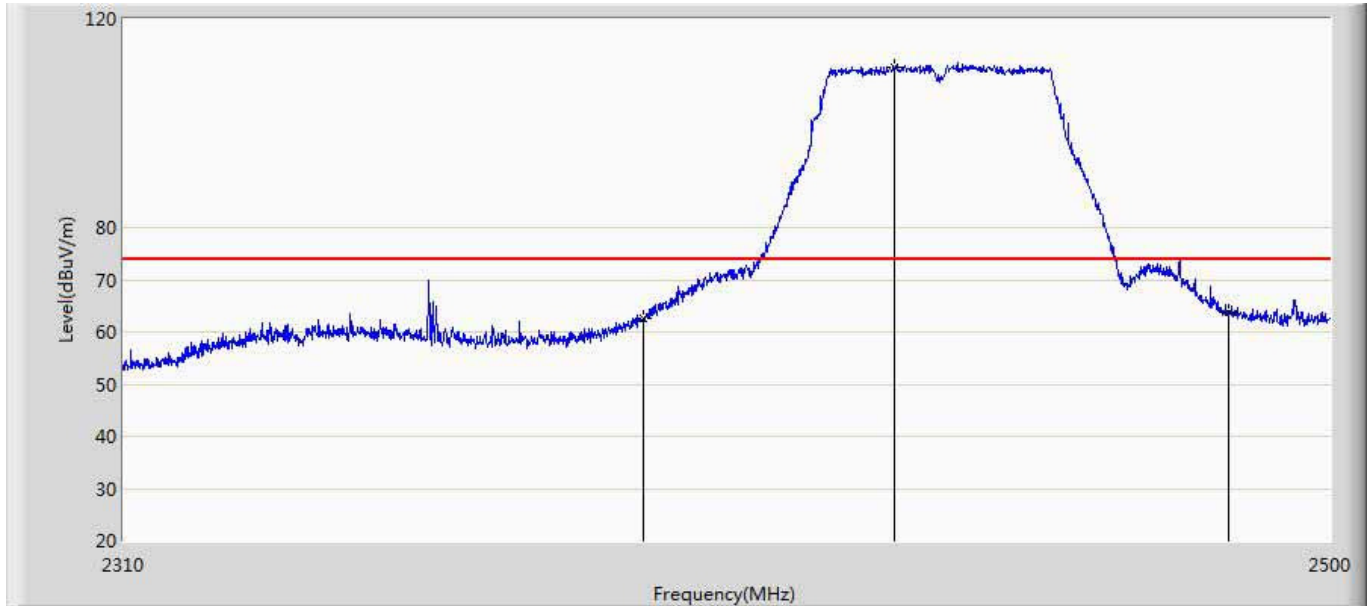
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	62.425	26.743	-11.575	74.000	35.682	PK
2	*	2419.362	110.463	74.691	36.463	74.000	35.772	PK

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 13:52
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode4: Transmit at channel2422MHz by 802.11n40	



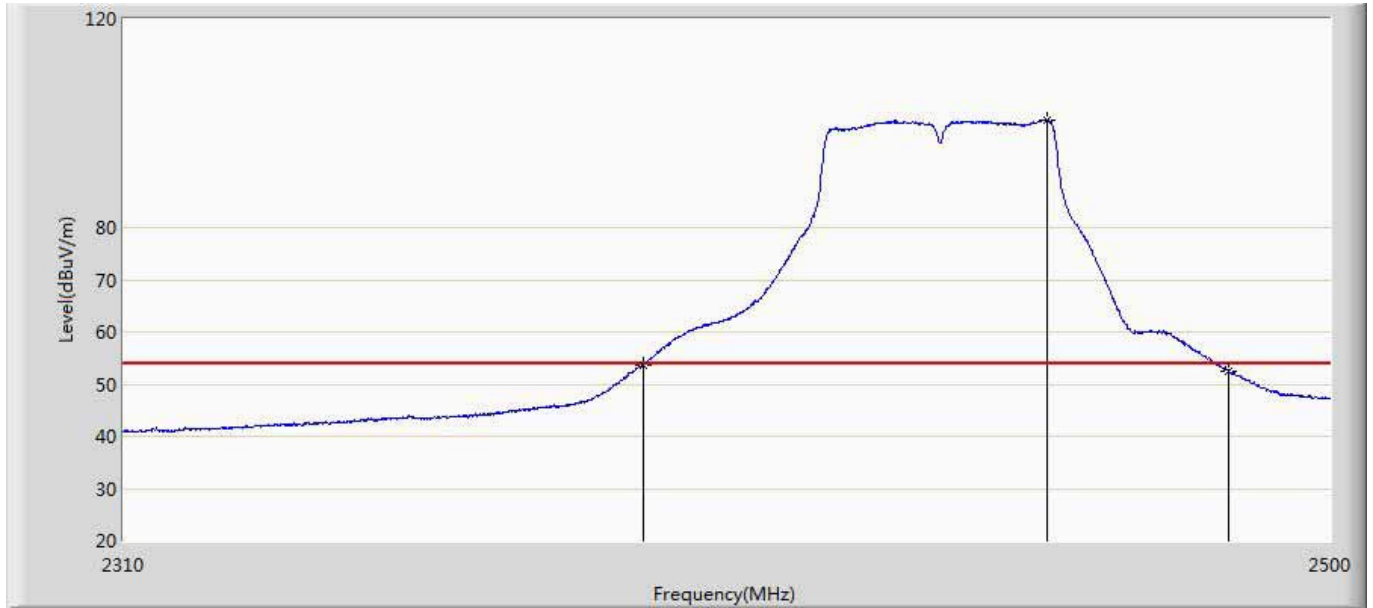
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2387.550	51.464	15.788	-2.536	54.000	35.676	AV
2		2390.000	51.086	15.404	-2.914	54.000	35.682	AV
3	*	2420.154	100.105	64.329	46.105	54.000	35.775	AV

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 13:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode4: Transmit at channel2437MHz by 802.11n40	



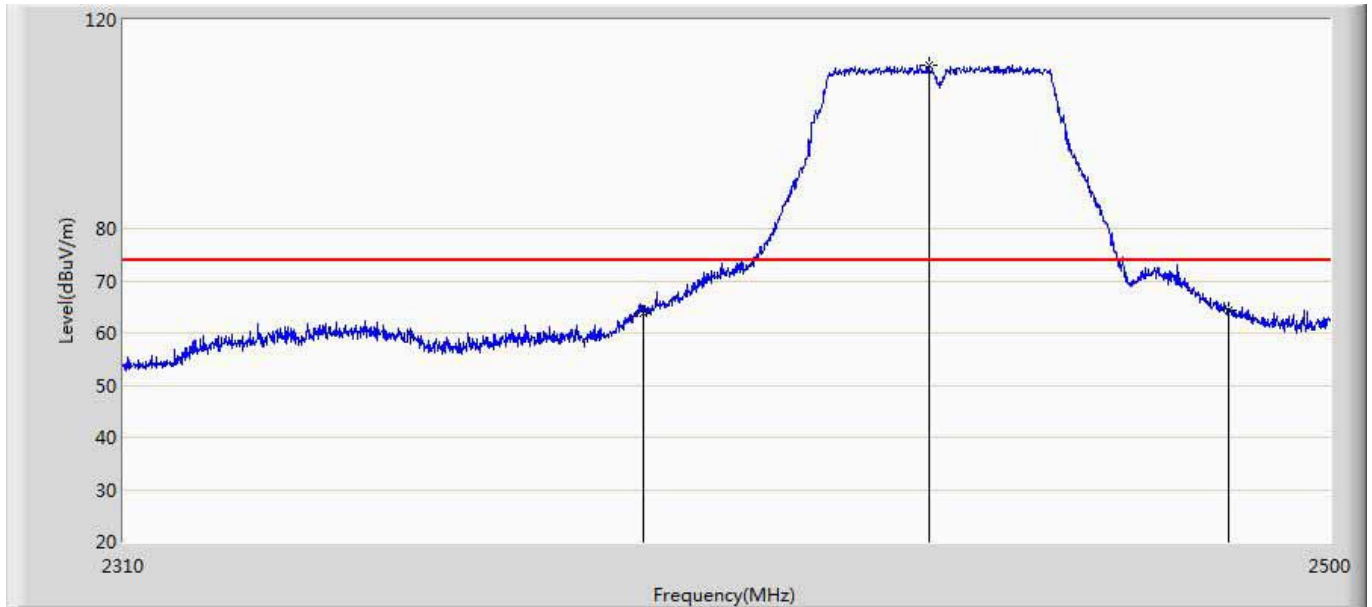
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	62.543	26.861	-11.457	74.000	35.682	PK
2	*	2429.795	110.623	74.815	36.623	74.000	35.808	PK
3		2483.500	63.846	27.954	-10.154	74.000	35.891	PK

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 14:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode4: Transmit at channel2437MHz by 802.11n40	



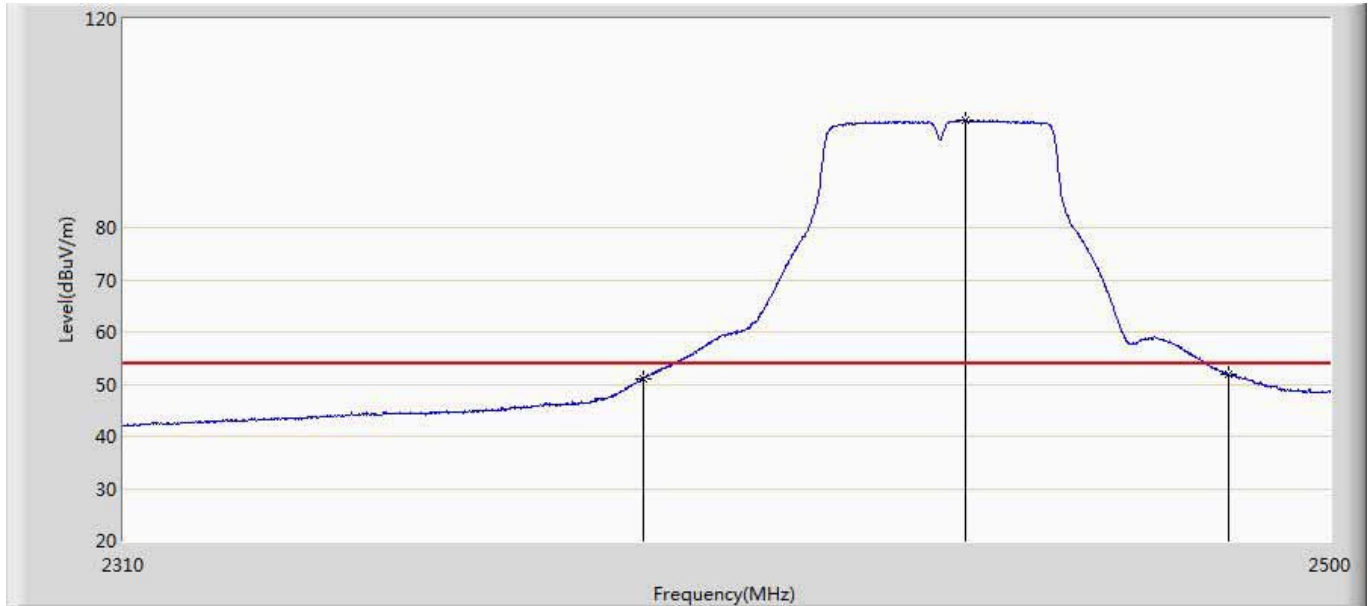
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.626	17.944	-0.374	54.000	35.682	AV
2	*	2454.020	100.607	64.764	46.607	54.000	35.844	AV
3		2483.500	52.414	16.522	-1.586	54.000	35.891	AV

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 14:07
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode4: Transmit at channel2437MHz by 802.11n40	



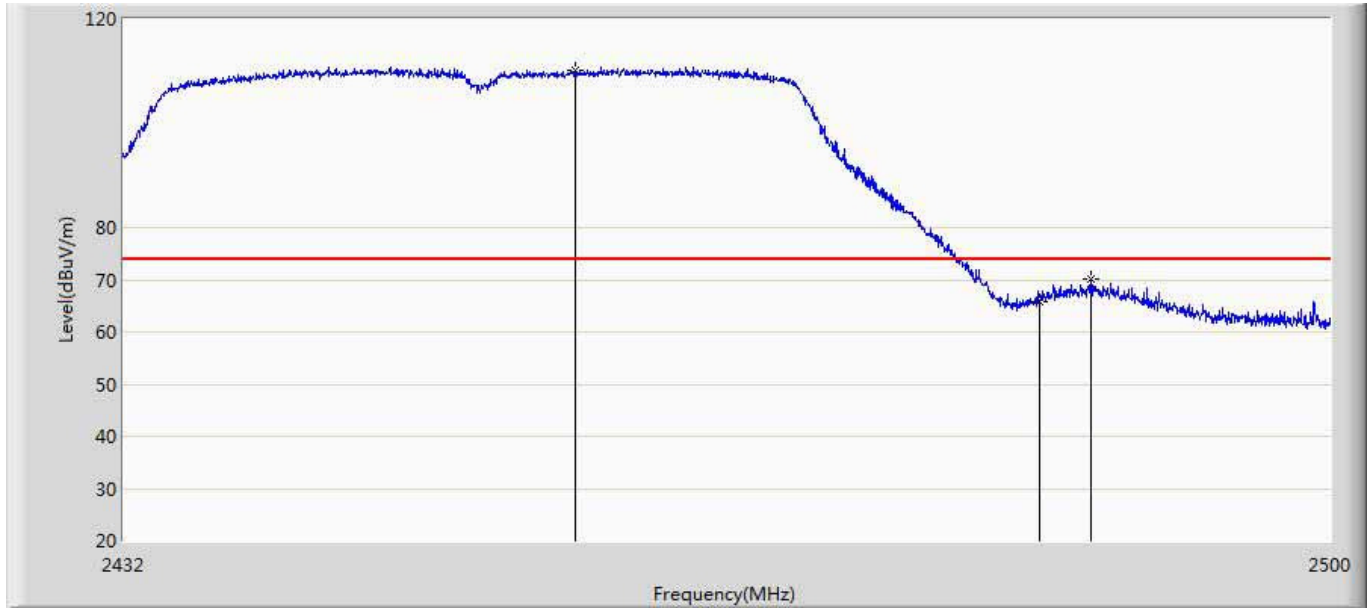
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	63.696	28.014	-10.304	74.000	35.682	PK
2	*	2435.210	111.438	75.631	37.438	74.000	35.806	PK
3		2483.500	64.280	28.388	-9.720	74.000	35.891	PK

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 14:05
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode4: Transmit at channel2437MHz by 802.11n40	



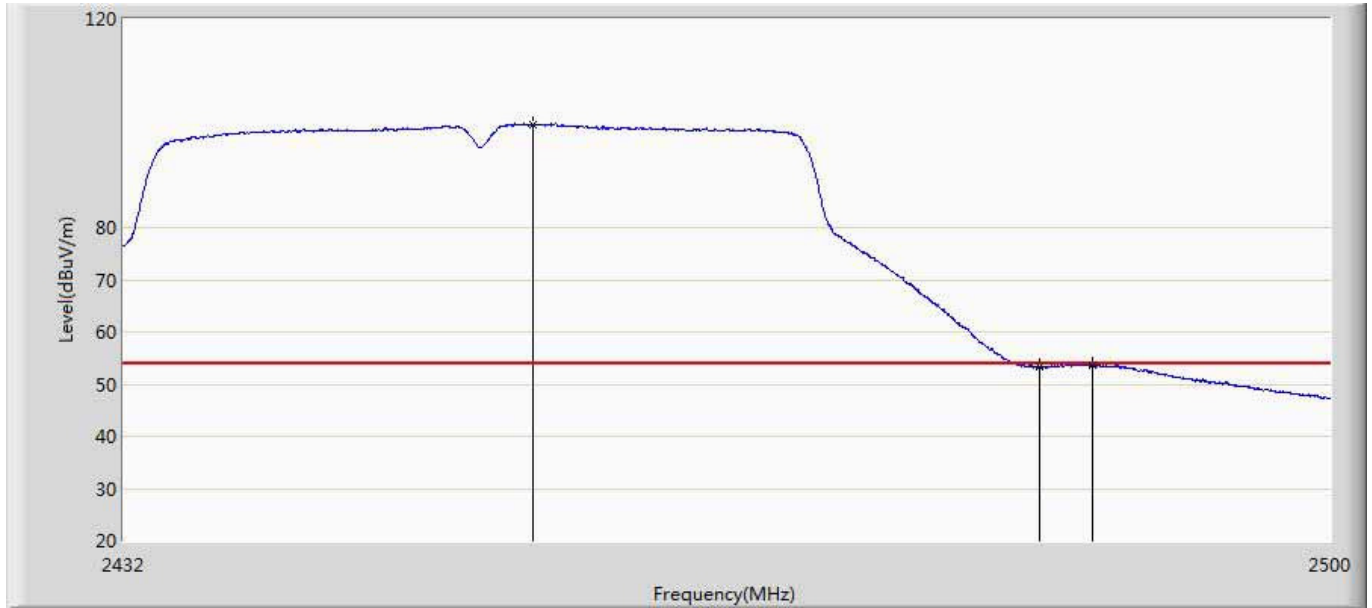
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	51.145	15.463	-2.855	54.000	35.682	AV
2	*	2441.100	100.603	64.798	46.603	54.000	35.805	AV
3		2483.500	51.867	15.975	-2.133	54.000	35.891	AV

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 14:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode4: Transmit at channel2452MHz by 802.11n40	



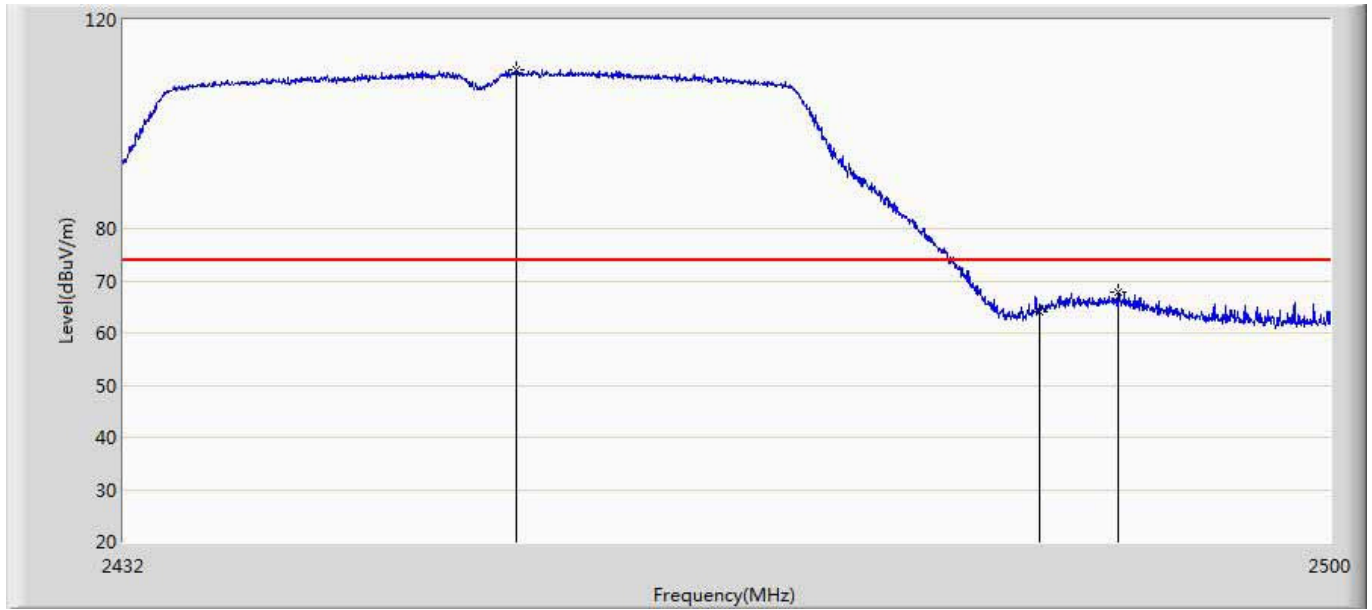
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2457.228	110.122	74.265	36.122	74.000	35.857	PK
2		2483.500	65.941	30.049	-8.059	74.000	35.891	PK
3		2486.366	70.052	34.140	-3.948	74.000	35.913	PK

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 14:12
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode4: Transmit at channel2452MHz by 802.11n40	



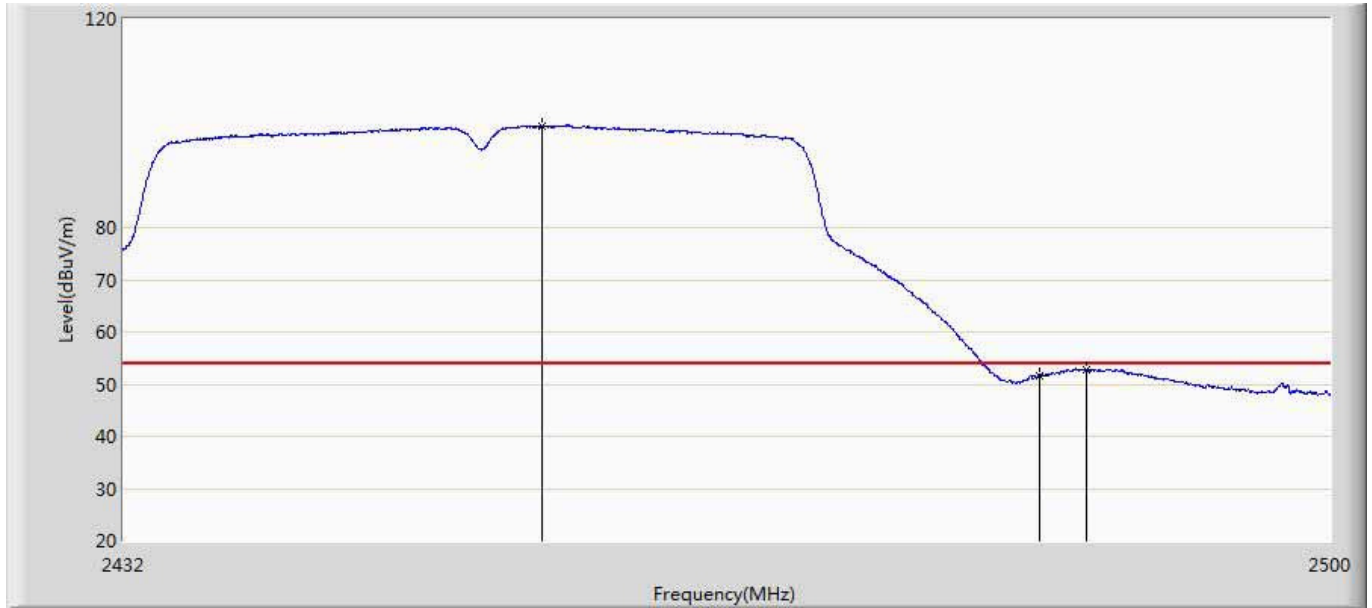
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2454.848	99.800	63.953	45.800	54.000	35.847	AV
2		2483.500	53.404	17.512	-0.596	54.000	35.891	AV
3		2486.502	53.723	17.810	-0.277	54.000	35.914	AV

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 14:17
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode4: Transmit at channel2452MHz by 802.11n40	



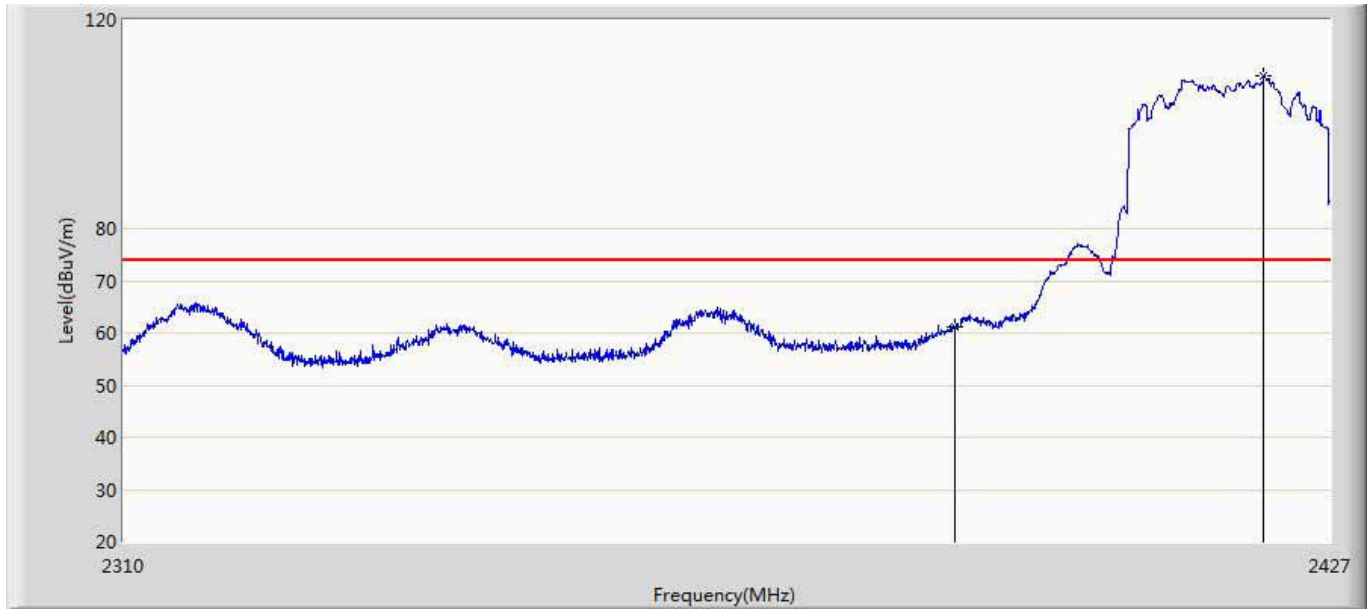
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2453.930	110.297	74.454	36.297	74.000	35.843	PK
2		2483.500	64.104	28.212	-9.896	74.000	35.891	PK
3		2487.964	67.749	31.825	-6.251	74.000	35.924	PK

Engineer: Yock	
Site: AC5	Time: 2016/10/26 - 14:14
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode4: Transmit at channel2452MHz by 802.11n40	



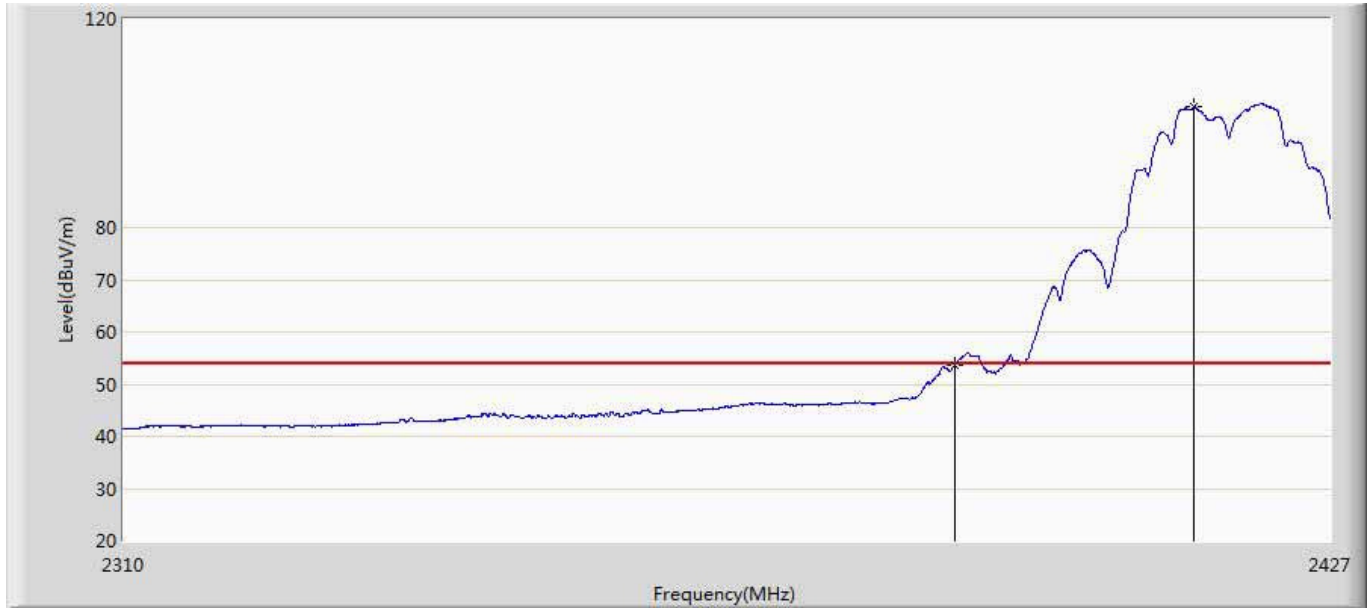
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2455.426	99.358	63.508	45.358	54.000	35.849	AV
2		2483.500	51.674	15.782	-2.326	54.000	35.891	AV
3		2486.162	52.811	16.900	-1.189	54.000	35.910	AV

Engineer: Yock	
Site: AC5	Time: 2016/11/11 - 18:18
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode1: Transmit at channel2417MHz by 802.11b	



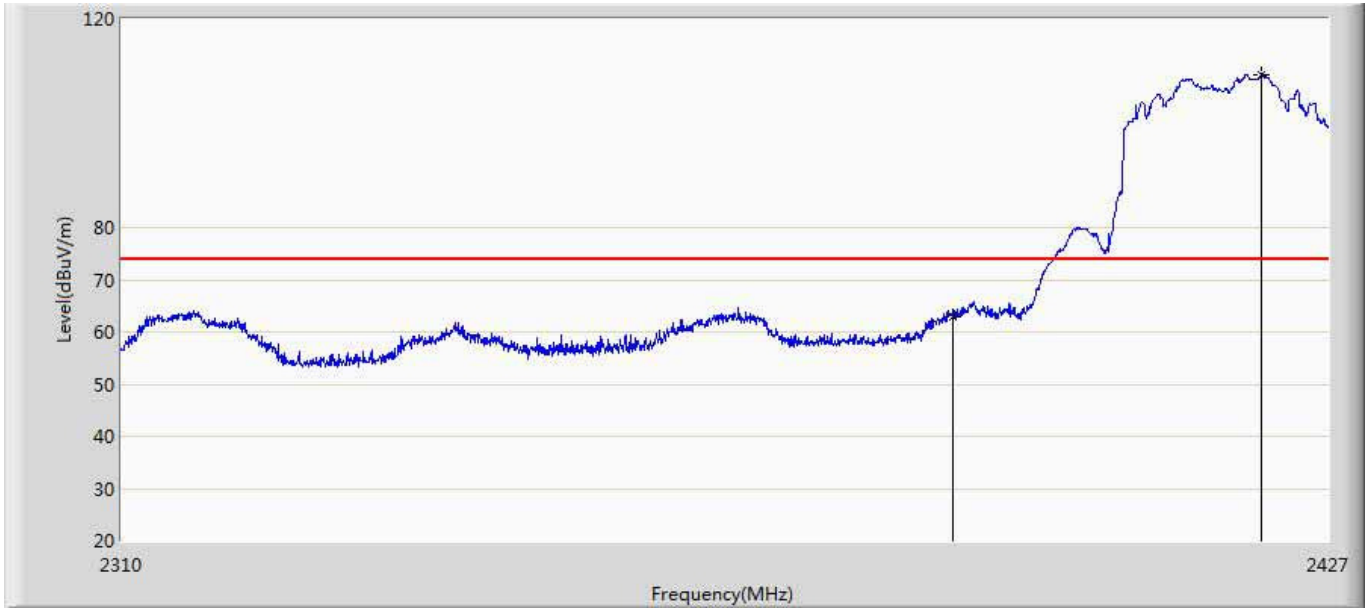
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	61.072	25.390	-12.928	74.000	35.682	PK
2	*	2420.448	109.389	73.612	35.389	74.000	35.777	PK

Engineer: Yock	
Site: AC5	Time: 2016/11/11 - 18:05
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode1: Transmit at channel2417MHz by 802.11b	



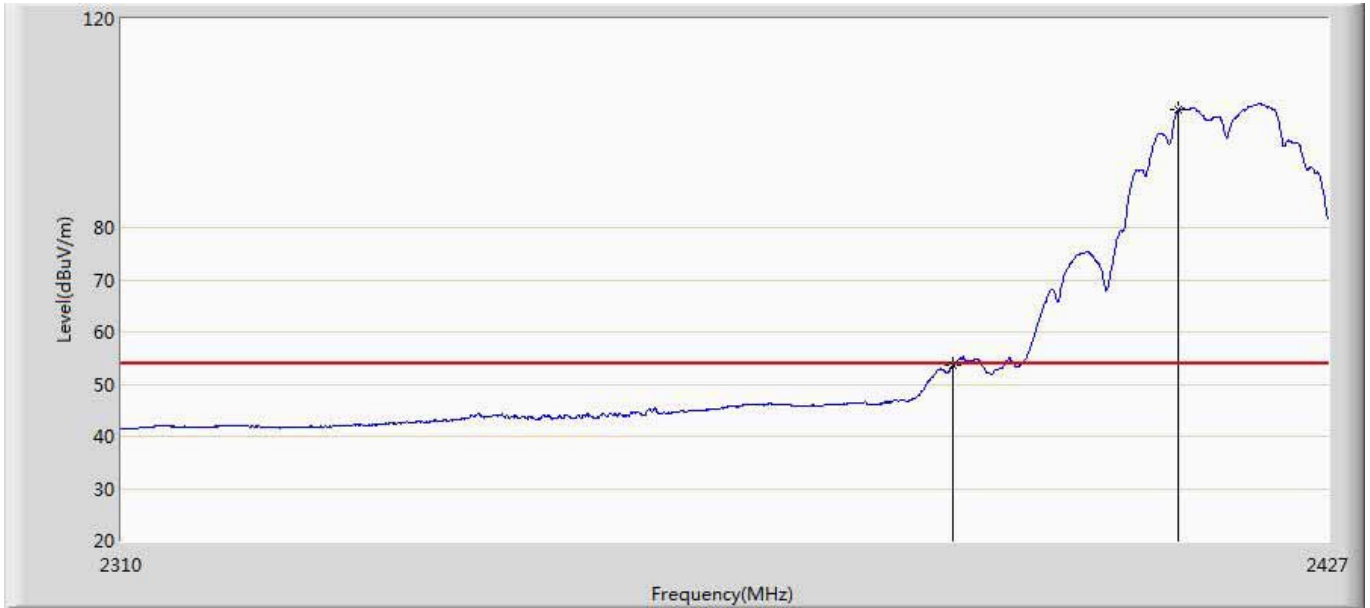
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.710	18.028	-0.290	54.000	35.682	AV
2	*	2413.545	103.101	67.353	49.101	54.000	35.748	AV

Engineer: Yock	
Site: AC5	Time: 2016/11/11 - 18:17
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode1: Transmit at channel2417MHz by 802.11b	



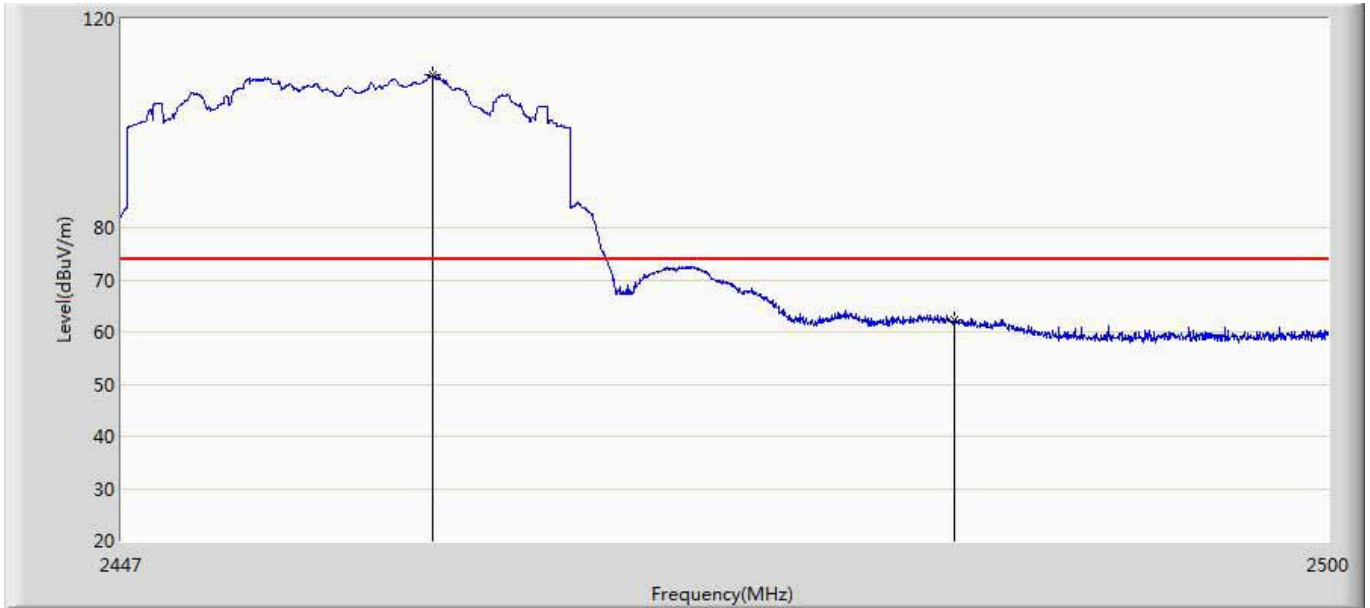
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	62.997	27.315	-11.003	74.000	35.682	PK
2	*	2420.389	109.338	73.561	35.338	74.000	35.777	PK

Engineer: Yock	
Site: AC5	Time: 2016/11/11 - 18:16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode1: Transmit at channel2417MHz by 802.11b	



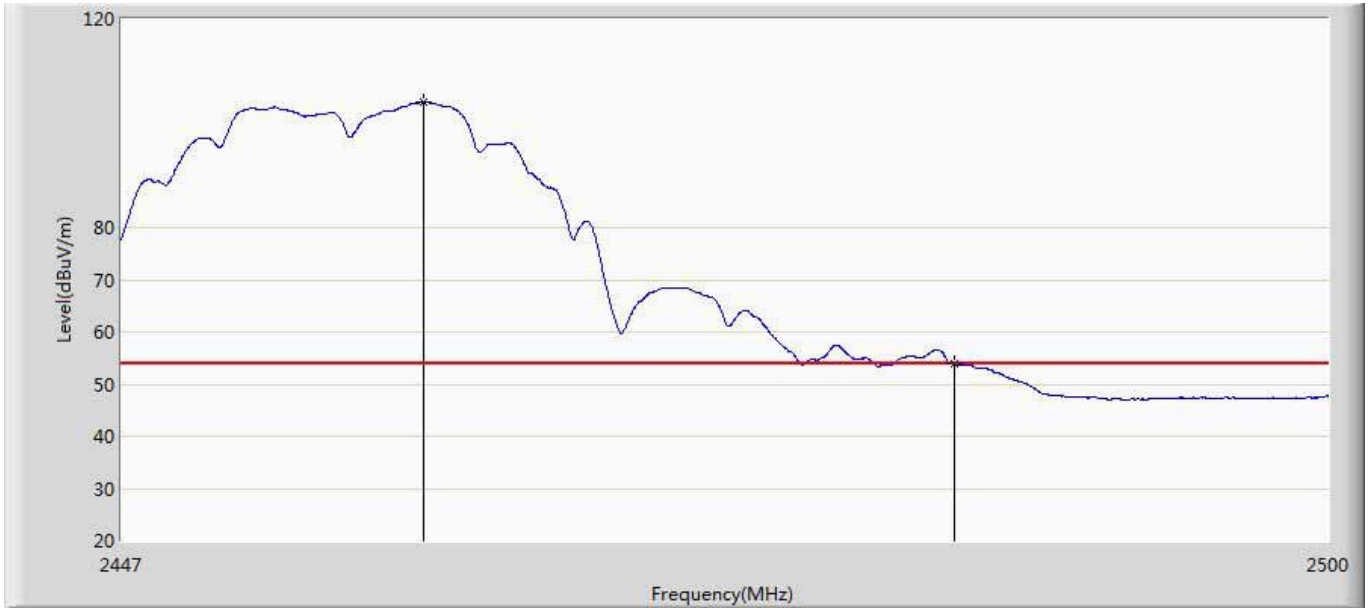
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.537	17.855	-0.463	54.000	35.682	AV
2	*	2412.199	102.500	66.758	48.500	54.000	35.742	AV

Engineer: Yock	
Site: AC5	Time: 2016/11/11 - 18:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode1: Transmit at channel2457MHz by 802.11b	



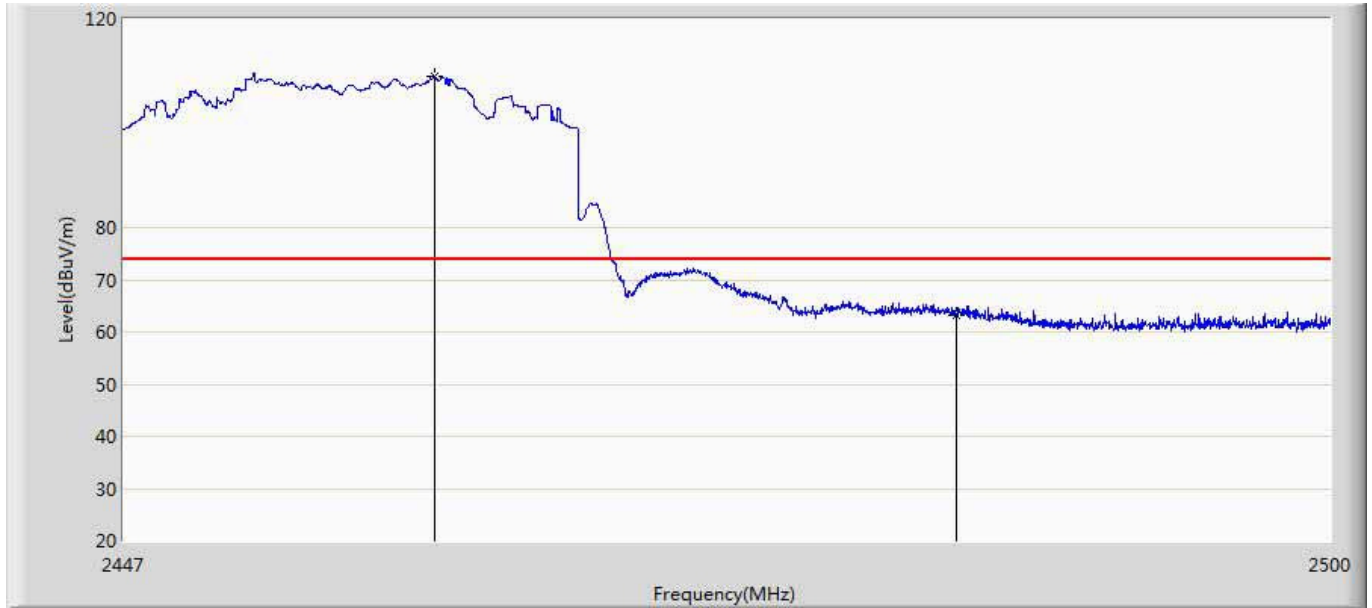
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2460.542	109.419	73.547	35.419	74.000	35.872	PK
2		2483.500	62.205	26.313	-11.795	74.000	35.891	PK

Engineer: Yock	
Site: AC5	Time: 2016/11/11 - 18:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode1: Transmit at channel2457MHz by 802.11b	



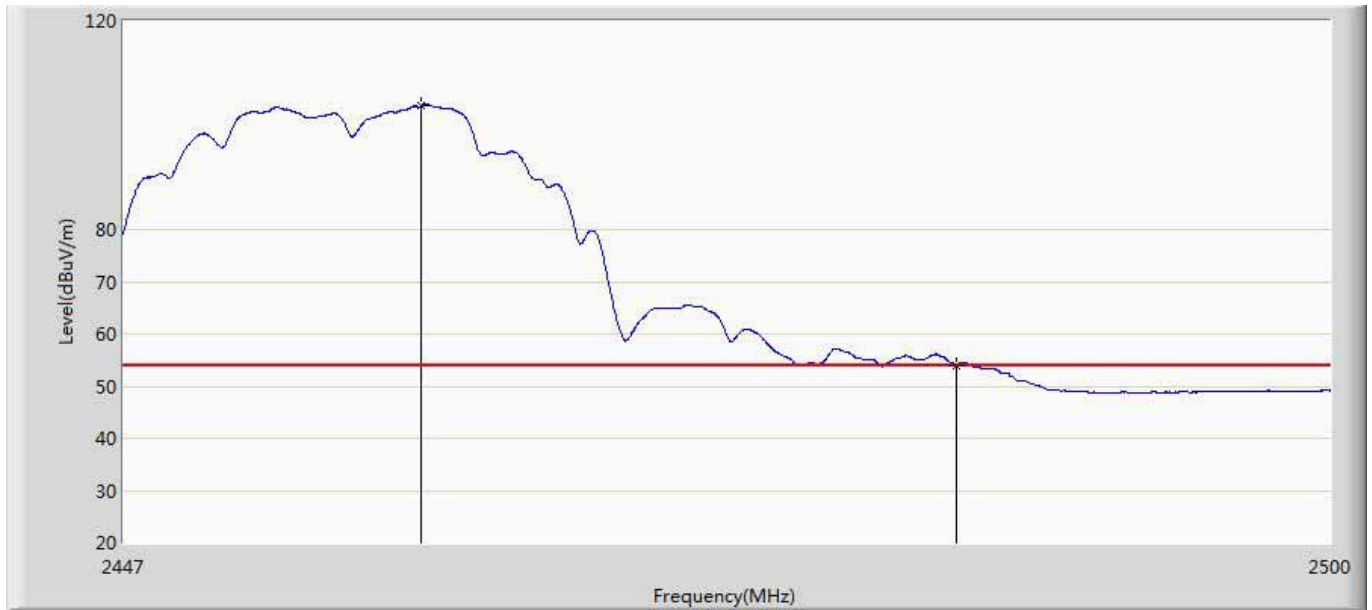
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2460.144	104.107	68.237	50.107	54.000	35.870	AV
2		2483.500	53.958	18.066	-0.042	54.000	35.891	AV

Engineer: Yock	
Site: AC5	Time: 2016/11/11 - 18:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode1: Transmit at channel2457MHz by 802.11b	



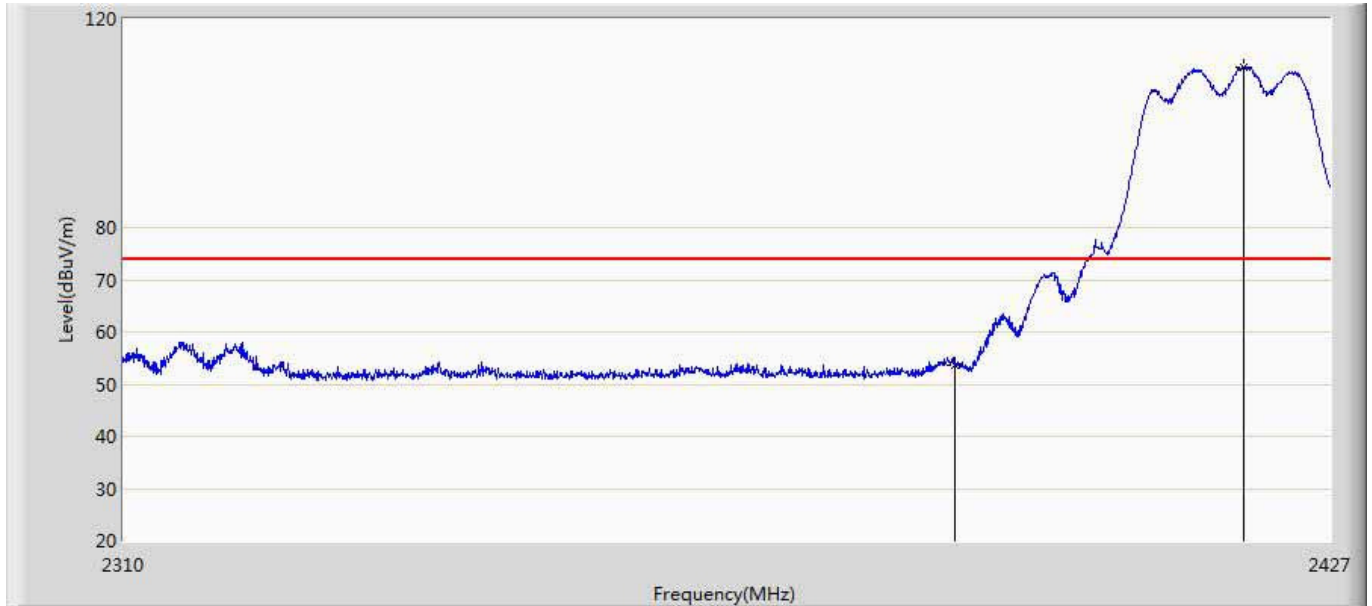
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2460.542	109.100	73.228	35.100	74.000	35.872	PK
2		2483.500	63.133	27.241	-10.867	74.000	35.891	PK

Engineer: Yock	
Site: AC5	Time: 2016/11/11 - 18:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode1: Transmit at channel2457MHz by 802.11b	



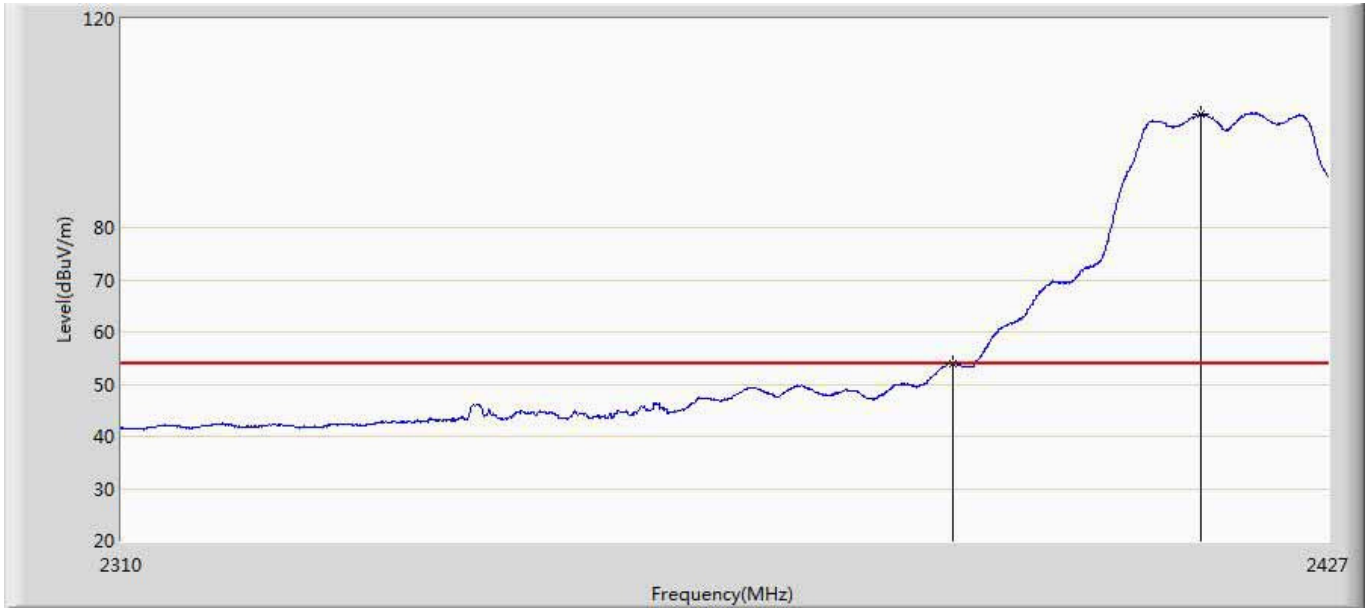
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2460.011	103.737	67.867	49.737	54.000	35.870	AV
2		2483.500	53.769	17.877	-0.231	54.000	35.891	AV

Engineer: Yock	
Site: AC5	Time: 2016/11/11 - 18:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode2: Transmit at channel2417MHz by 802.11g	



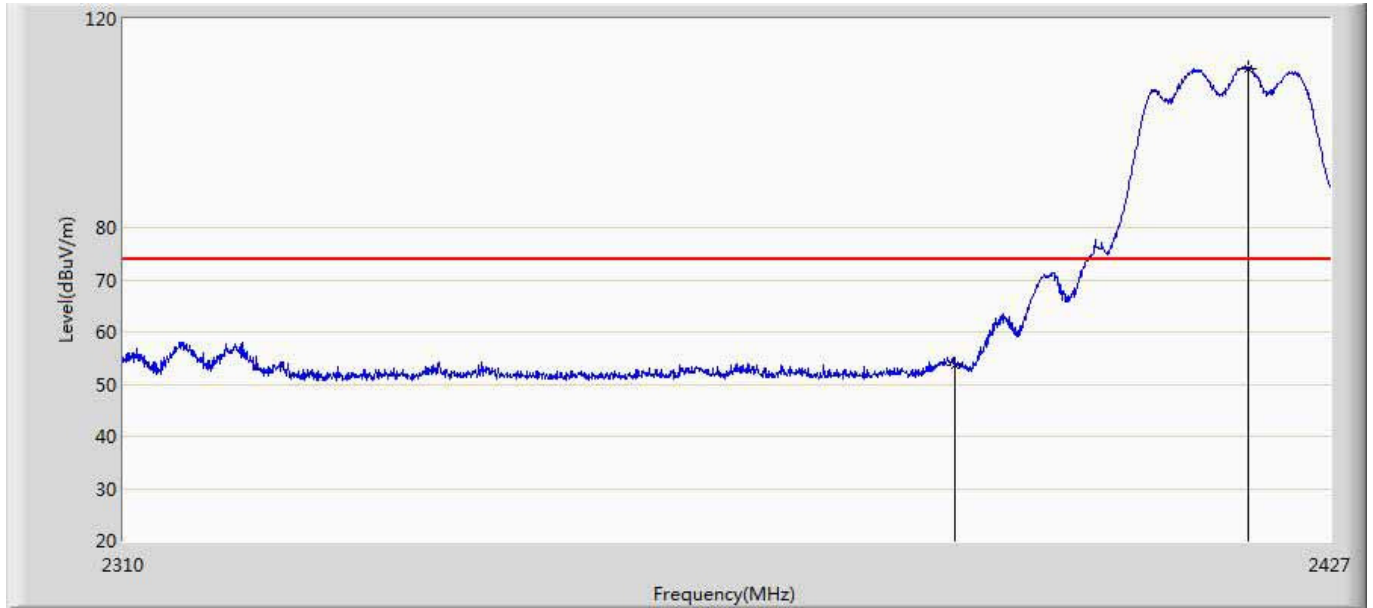
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.527	17.845	-20.473	74.000	35.682	PK
2	*	2418.518	110.649	74.880	36.649	74.000	35.768	PK

Engineer: Yock	
Site: AC5	Time: 2016/11/11 - 18:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode2: Transmit at channel2417MHz by 802.11g	



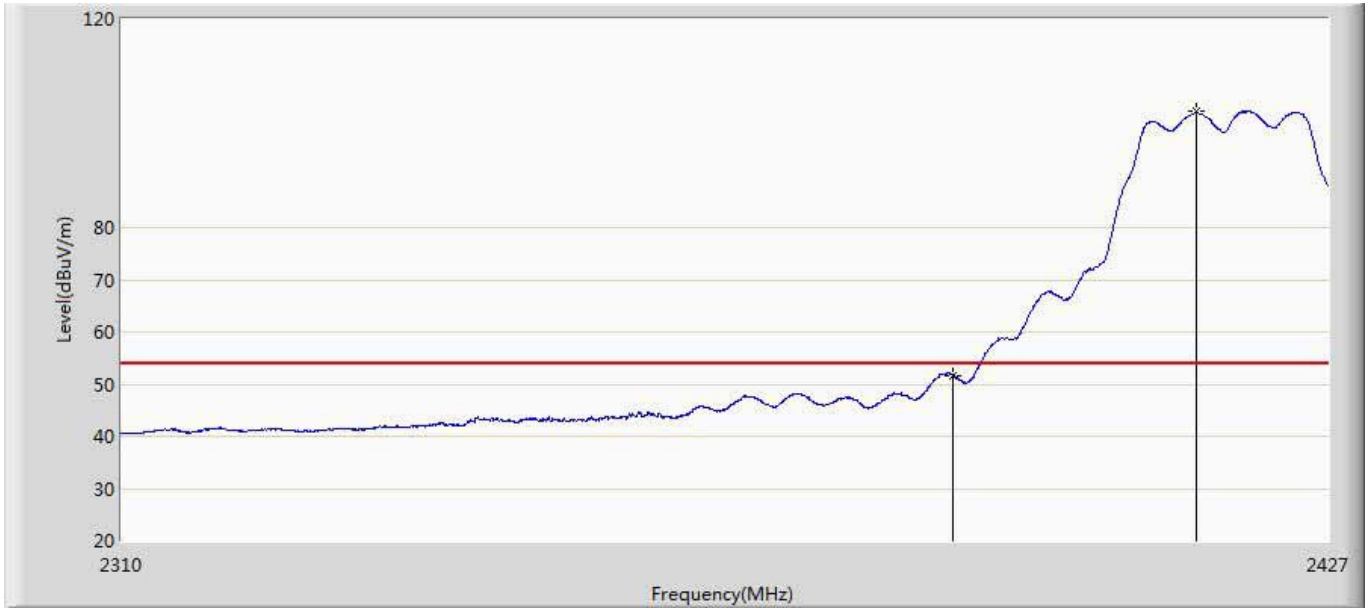
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.819	18.137	-0.181	54.000	35.682	AV
2	*	2414.423	101.751	65.999	47.751	54.000	35.751	AV

Engineer: Yock	
Site: AC5	Time: 2016/11/11 - 18:53
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode2: Transmit at channel2417MHz by 802.11g	



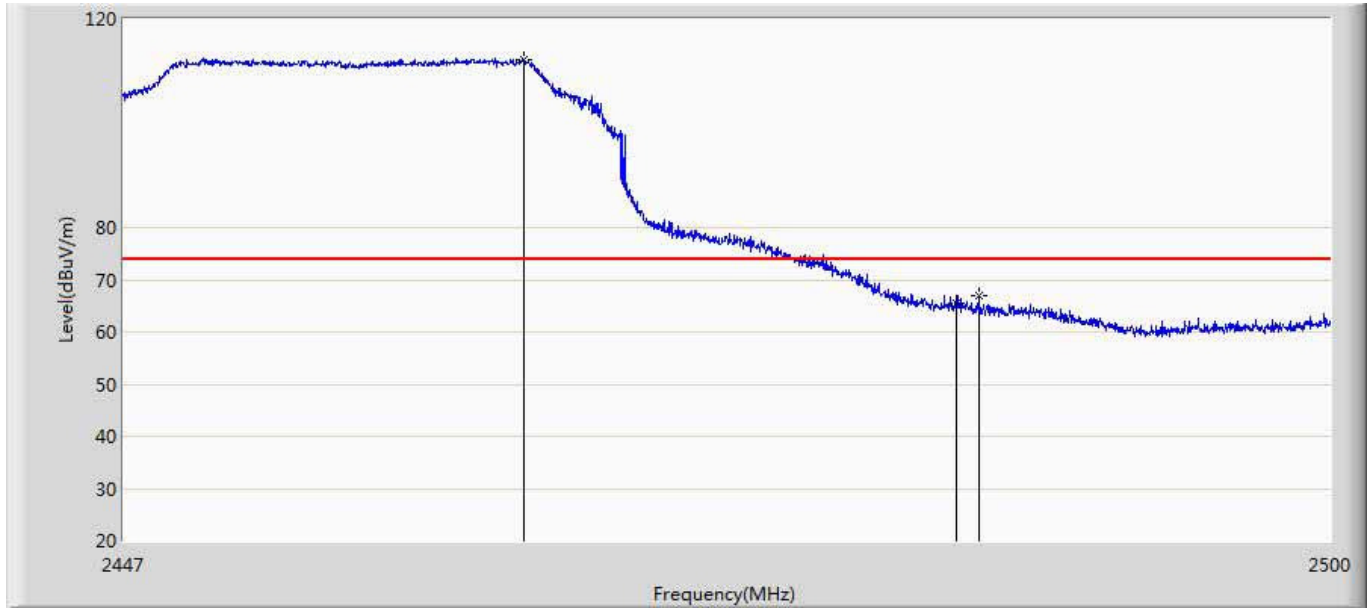
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.527	17.845	-20.473	74.000	35.682	PK
2	*	2418.868	110.556	74.786	36.556	74.000	35.771	PK

Engineer: Yock	
Site: AC5	Time: 2016/11/11 - 18:52
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode2: Transmit at channel2417MHz by 802.11g	



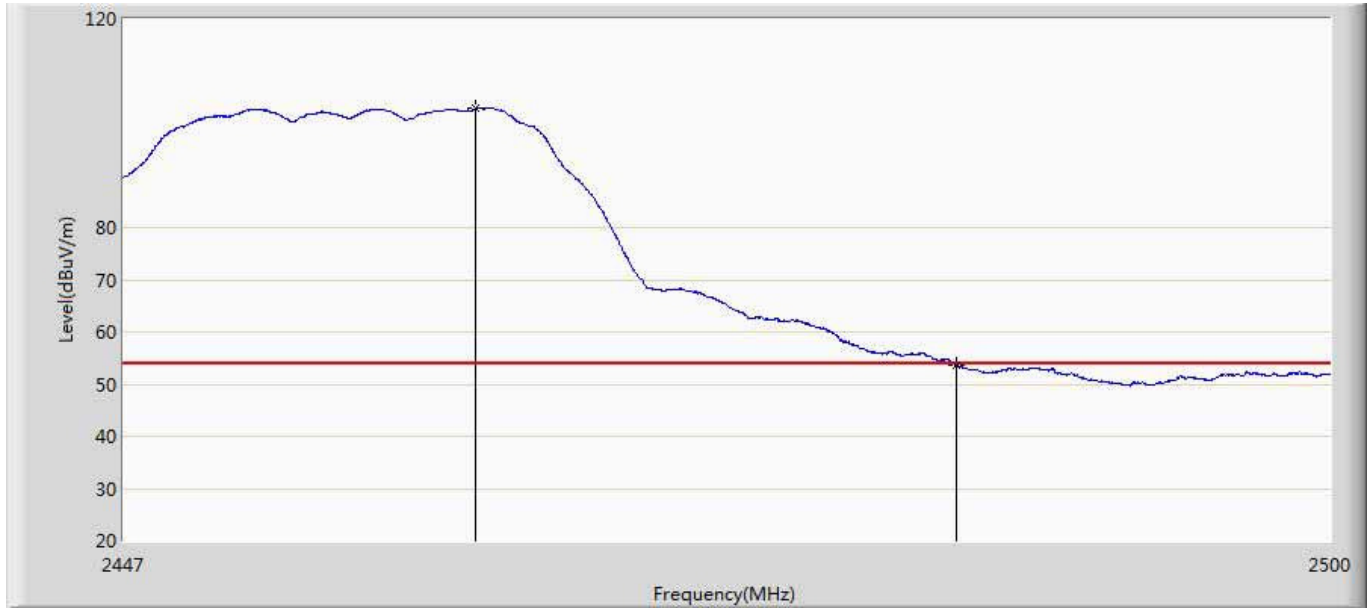
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	51.713	16.031	-2.287	54.000	35.682	AV
2	*	2414.013	102.185	66.435	48.185	54.000	35.750	AV

Engineer: Yock	
Site: AC5	Time: 2016/11/11 - 19:05
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode2: Transmit at channel2457MHz by 802.11g	



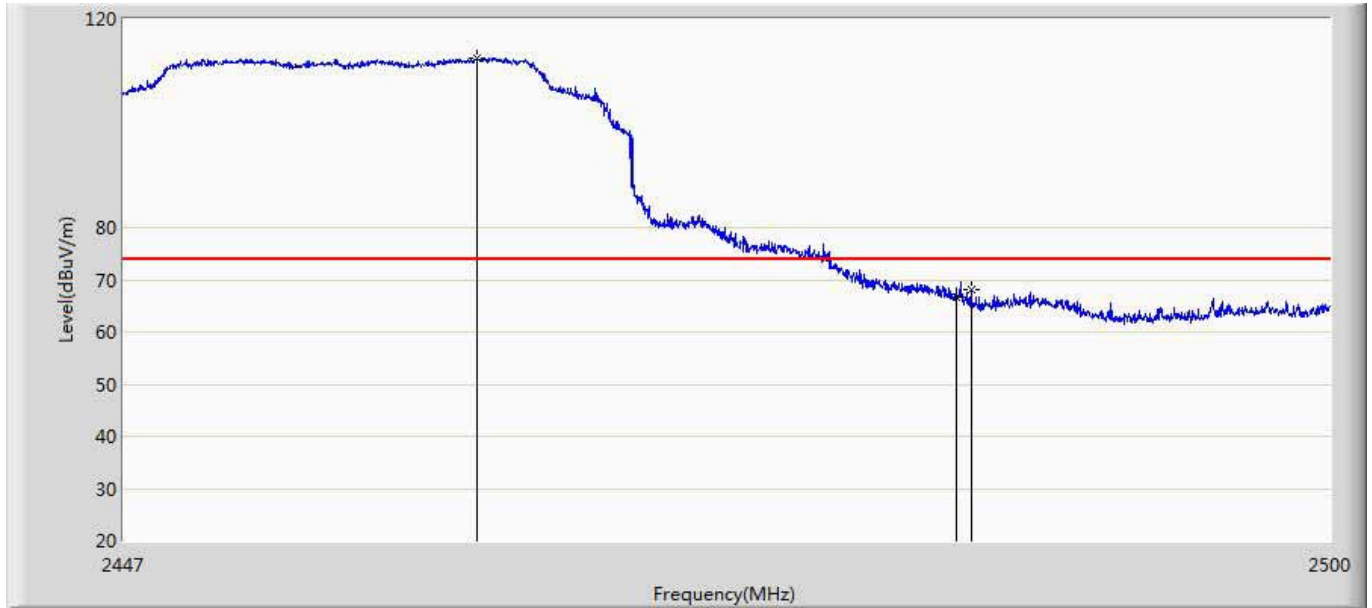
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2464.463	112.137	76.261	38.137	74.000	35.875	PK
2		2483.500	65.388	29.496	-8.612	74.000	35.891	PK
3		2484.445	66.858	30.960	-7.142	74.000	35.898	PK

Engineer: Yock	
Site: AC5	Time: 2016/11/11 - 18:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode2: Transmit at channel2457MHz by 802.11g	



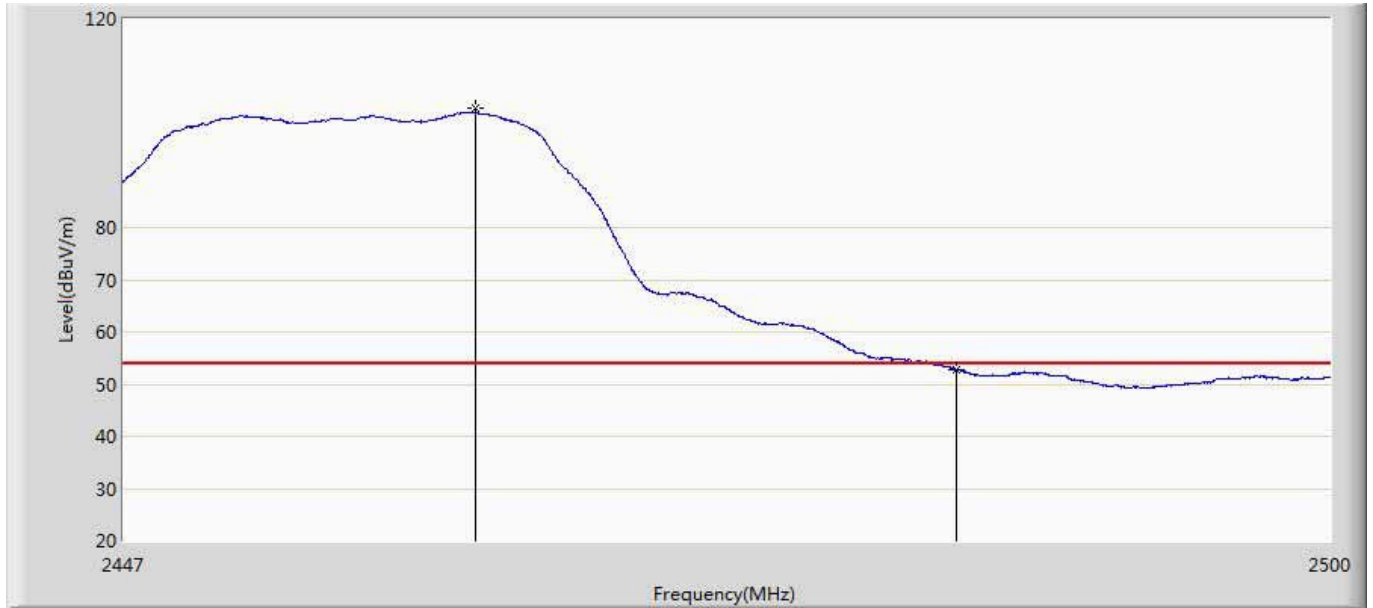
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2462.370	102.785	66.907	48.785	54.000	35.877	AV
2		2483.500	53.687	17.795	-0.313	54.000	35.891	AV

Engineer: Yock	
Site: AC5	Time: 2016/11/11 - 19:03
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode2: Transmit at channel2457MHz by 802.11g	



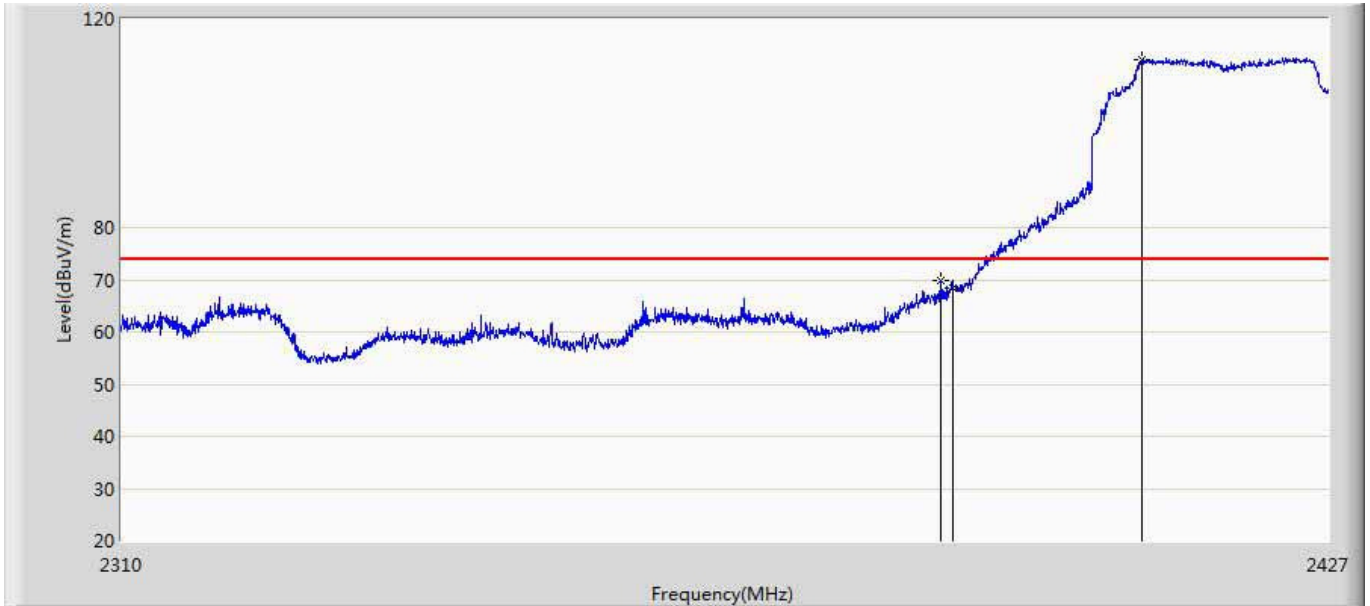
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2462.423	112.564	76.686	38.564	74.000	35.878	PK
2		2483.500	66.608	30.716	-7.392	74.000	35.891	PK
3		2484.126	68.061	32.165	-5.939	74.000	35.896	PK

Engineer: Yock	
Site: AC5	Time: 2016/11/11 - 19:03
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode2: Transmit at channel2457MHz by 802.11g	



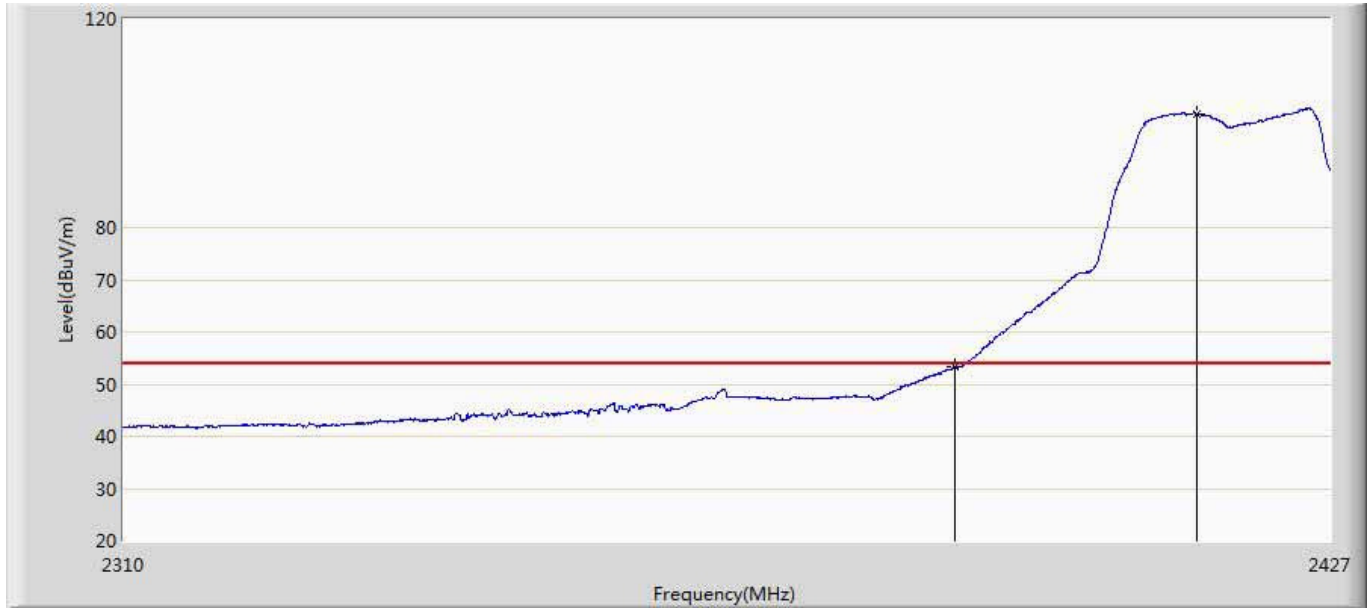
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2462.370	102.785	66.907	48.785	54.000	35.877	AV
2		2483.500	52.708	16.816	-1.292	54.000	35.891	AV

Engineer: Yock	
Site: AC5	Time: 2016/11/11 - 19:15
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode3: Transmit at channel2417MHz by 802.11n20	



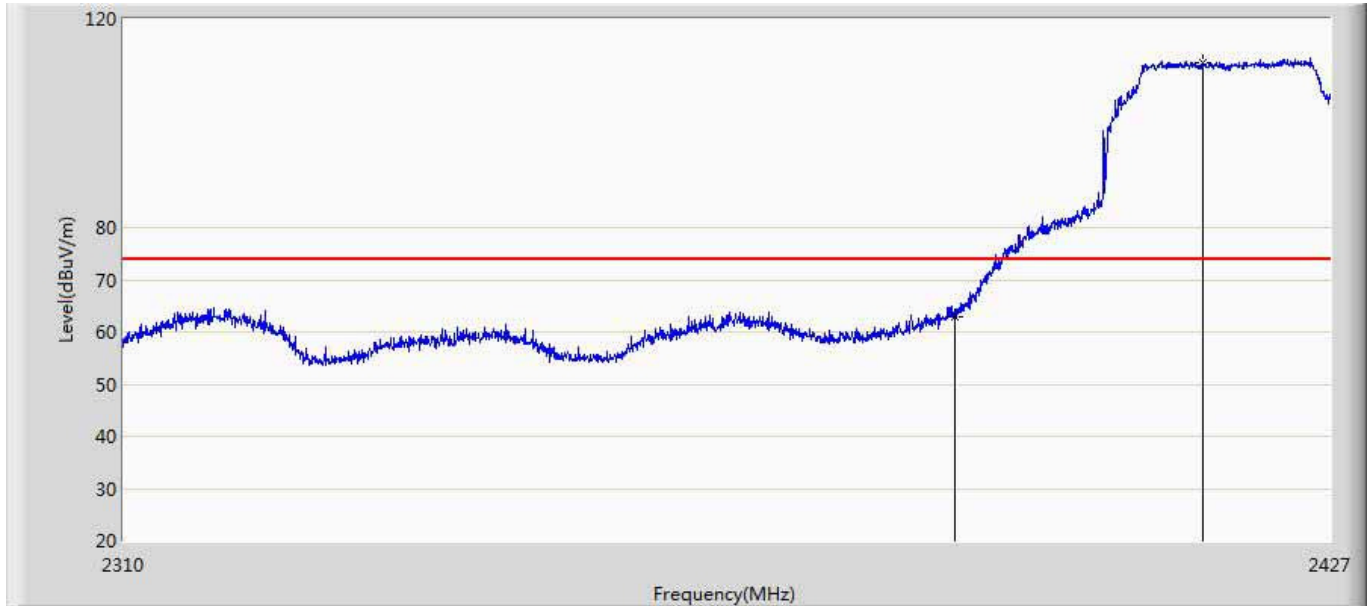
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2388.800	69.811	34.132	-4.189	74.000	35.680	PK
2		2390.000	68.274	32.592	-5.726	74.000	35.682	PK
3	*	2408.631	112.149	76.418	38.149	74.000	35.731	PK

Engineer: Yock	
Site: AC5	Time: 2016/11/11 - 19:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode3: Transmit at channel2417MHz by 802.11n20	



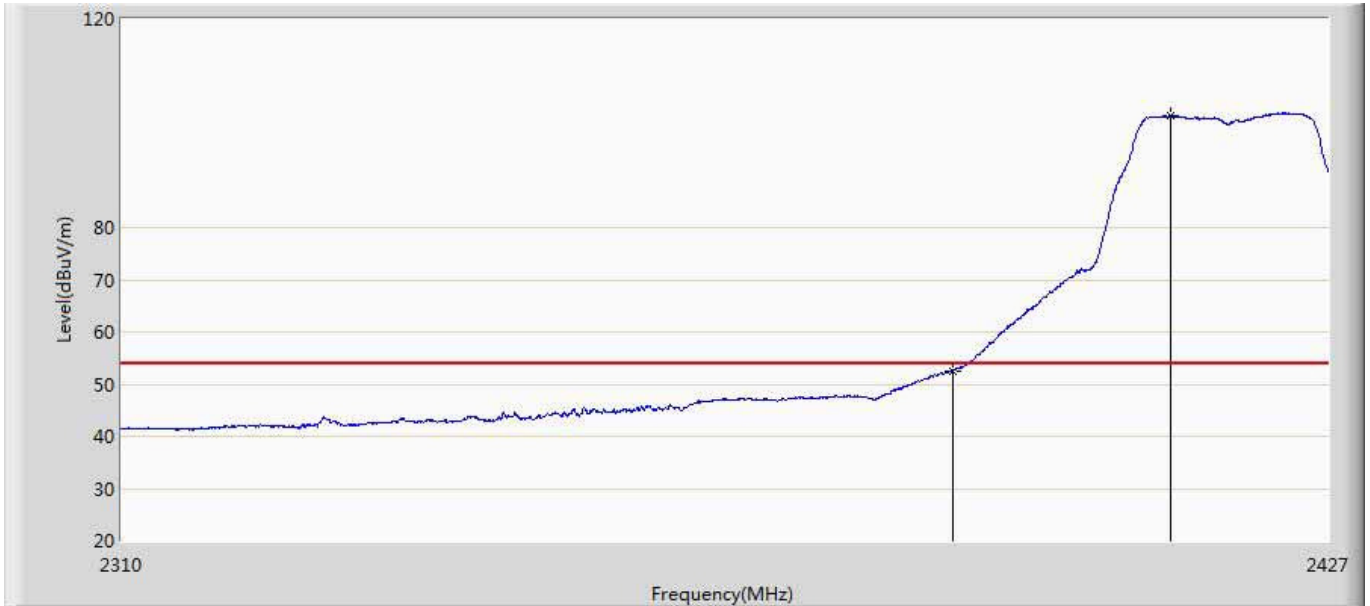
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.223	17.541	-0.777	54.000	35.682	AV
2	*	2413.837	101.846	66.097	47.846	54.000	35.750	AV

Engineer: Yock	
Site: AC5	Time: 2016/11/11 - 19:18
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode3: Transmit at channel2417MHz by 802.11n20	



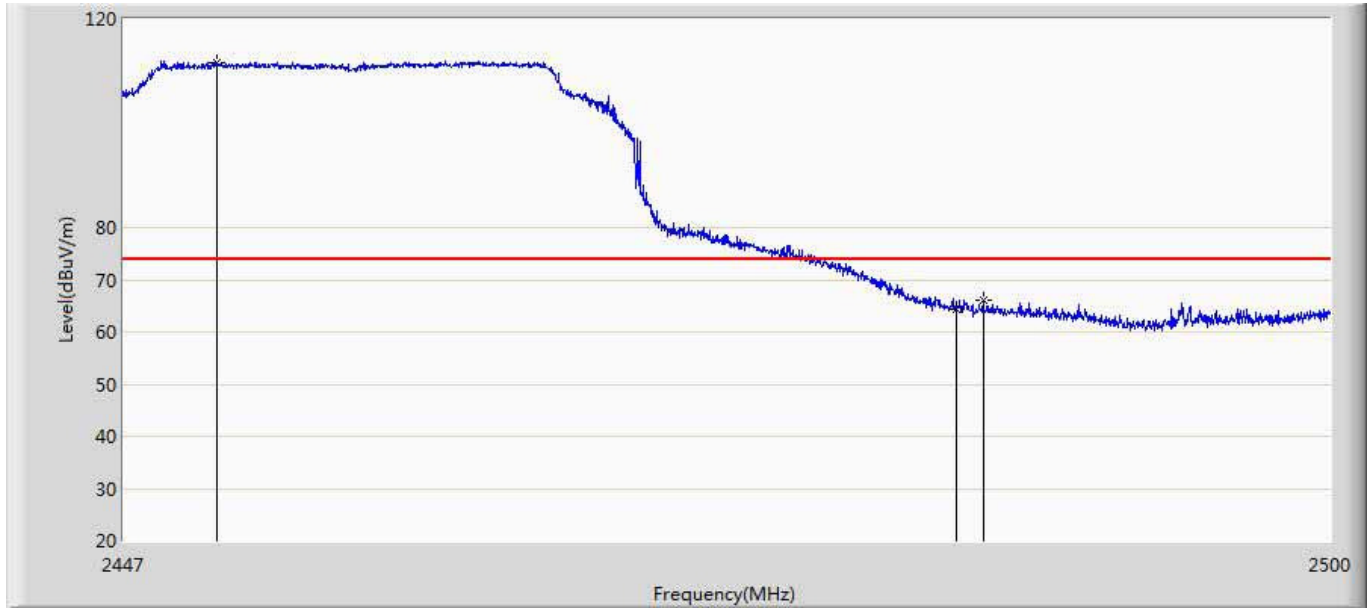
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	62.805	27.123	-11.195	74.000	35.682	PK
2	*	2414.481	111.691	75.939	37.691	74.000	35.752	PK

Engineer: Yock	
Site: AC5	Time: 2016/11/11 - 19:14
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode3: Transmit at channel2417MHz by 802.11n20	



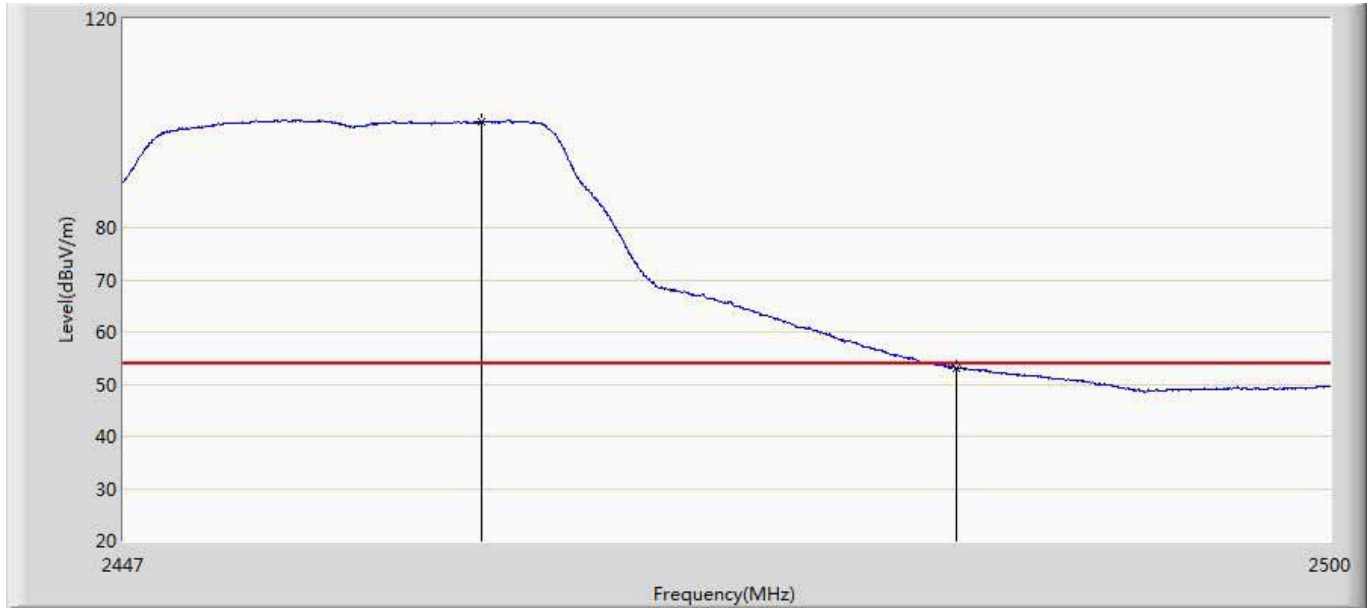
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	52.563	16.881	-1.437	54.000	35.682	AV
2	*	2411.439	101.398	65.659	47.398	54.000	35.740	AV

Engineer: Yock	
Site: AC5	Time: 2016/11/13 - 14:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode3: Transmit at channel2457MHz by 802.11n20	



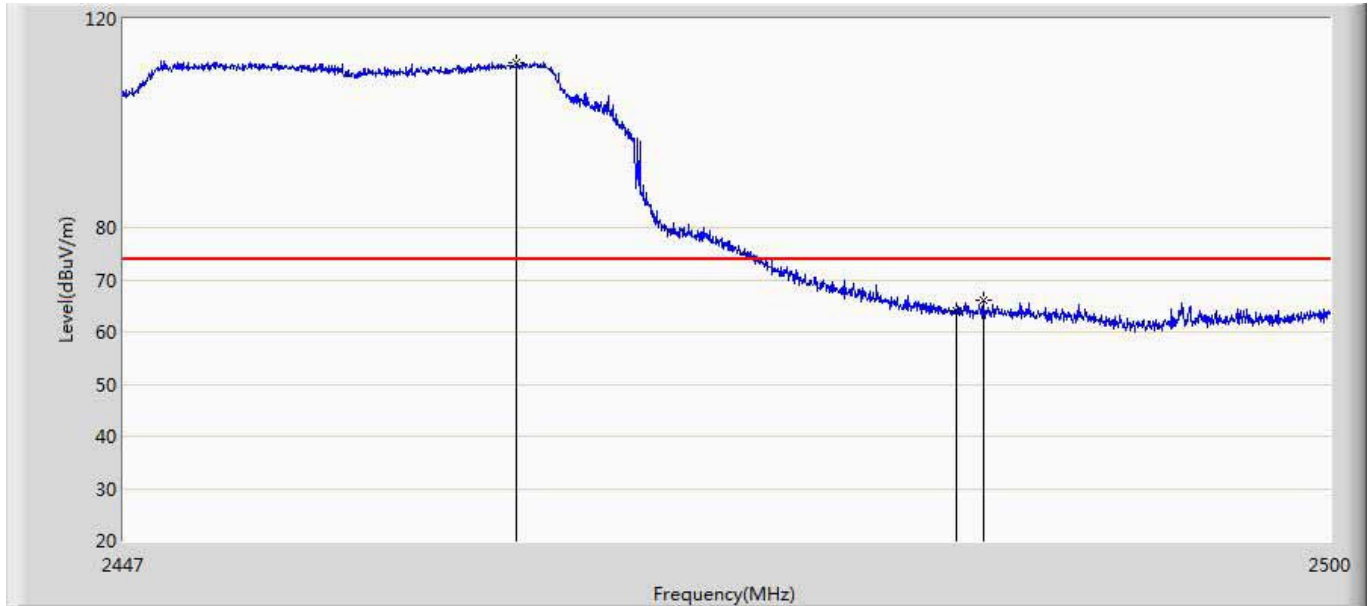
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2451.054	111.489	75.659	37.489	74.000	35.830	PK
2		2483.500	64.269	28.377	-9.731	74.000	35.891	PK
3		2484.656	66.070	30.170	-7.930	74.000	35.900	PK

Engineer: Yock	
Site: AC5	Time: 2016/11/13 - 13:53
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode3: Transmit at channel2457MHz by 802.11n20	



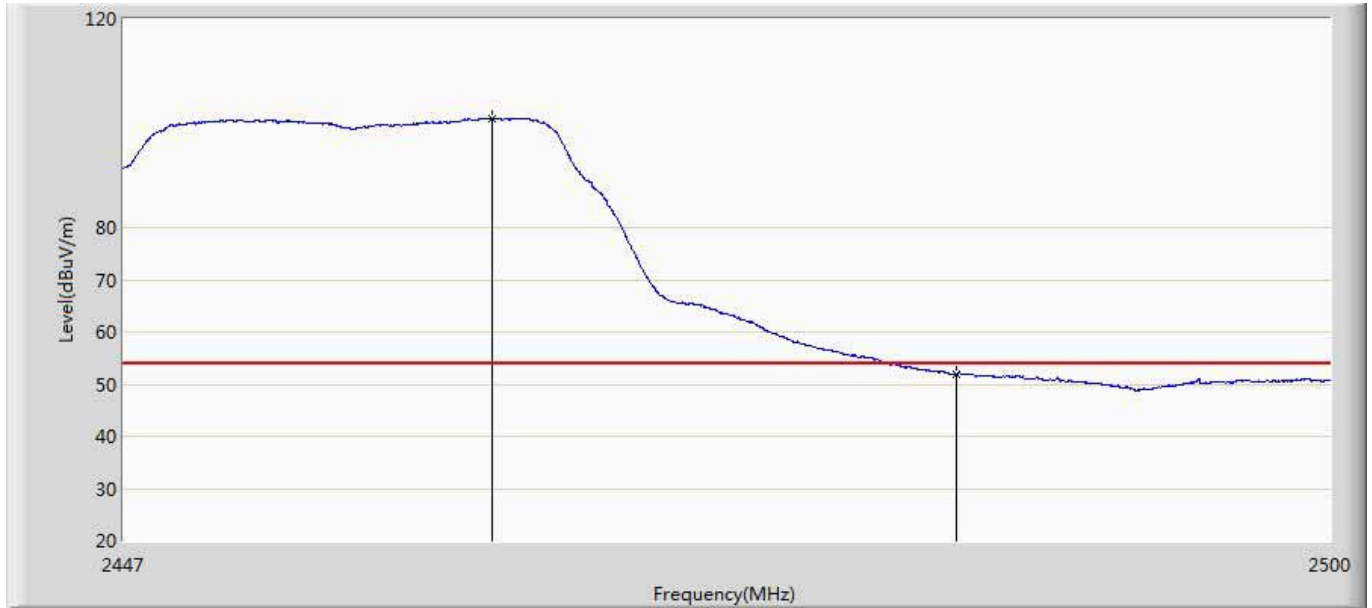
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2462.635	100.281	64.403	46.281	54.000	35.878	AV
2		2483.500	53.090	17.198	-0.910	54.000	35.891	AV

Engineer: Yock	
Site: AC5	Time: 2016/11/13 - 14:06
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode3: Transmit at channel2457MHz by 802.11n20	



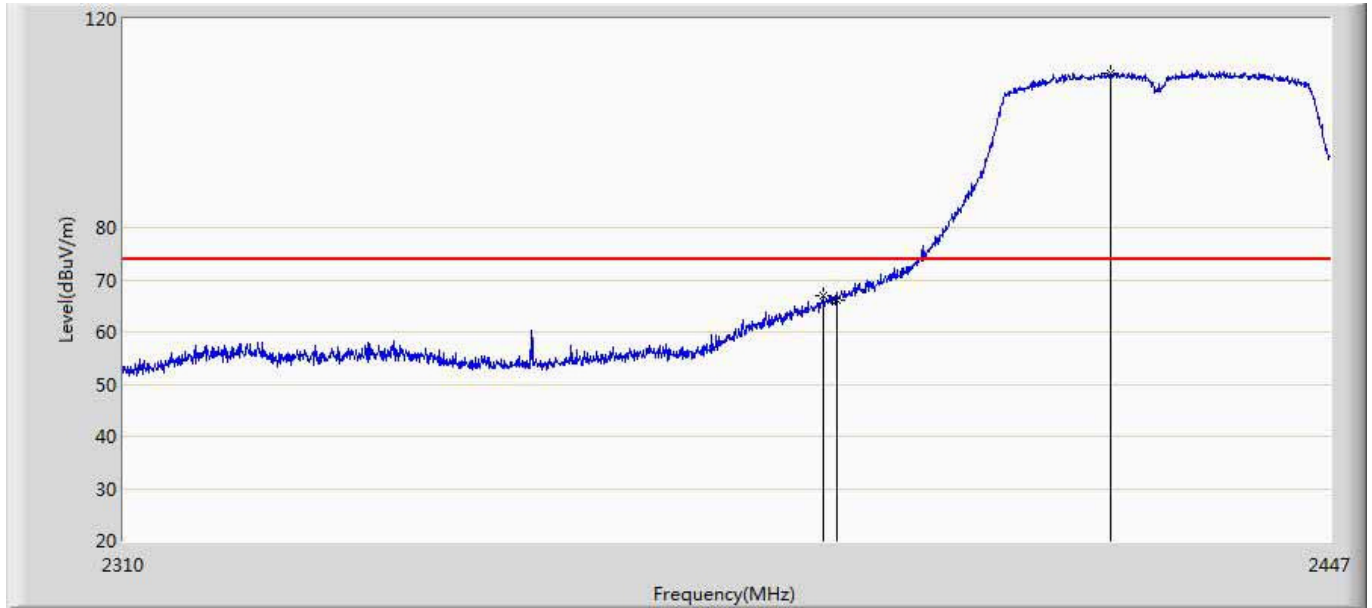
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2464.146	111.501	75.625	37.501	74.000	35.876	PK
2		2483.500	64.147	28.255	-9.853	74.000	35.891	PK
3		2484.656	66.070	30.170	-7.930	74.000	35.900	PK

Engineer: Yock	
Site: AC5	Time: 2016/11/13 - 14:03
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode3: Transmit at channel2457MHz by 802.11n20	



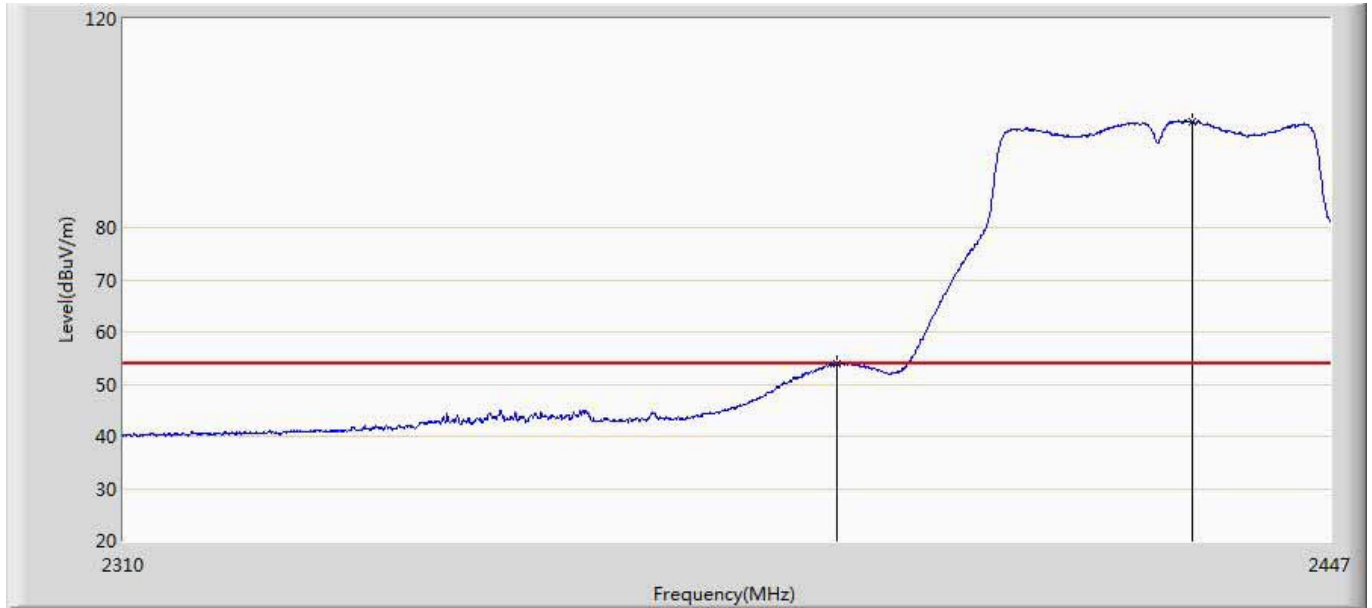
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2463.085	100.922	65.045	46.922	54.000	35.877	AV
2		2483.500	51.964	16.072	-2.036	54.000	35.891	AV

Engineer: Yock	
Site: AC5	Time: 2016/11/13 - 14:19
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode4: Transmit at channel2427MHz by 802.11n40	



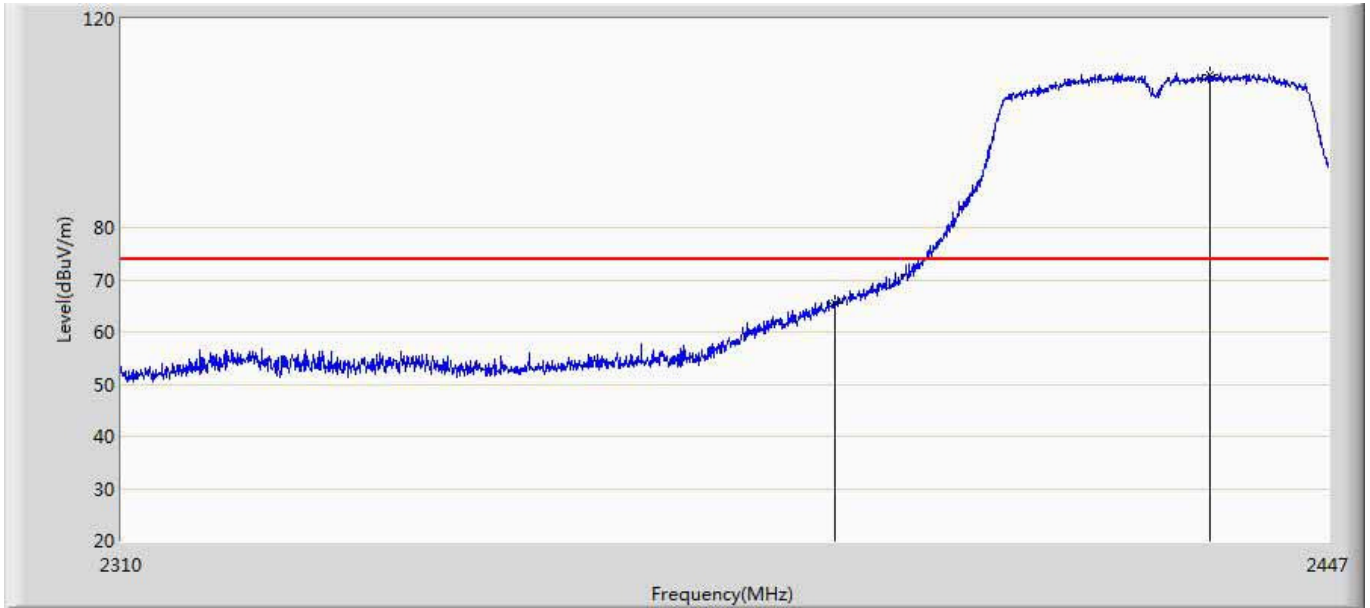
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2388.570	66.982	31.303	-7.018	74.000	35.678	PK
2		2390.000	66.167	30.485	-7.833	74.000	35.682	PK
3	*	2421.586	109.672	73.890	35.672	74.000	35.782	PK

Engineer: Yock	
Site: AC5	Time: 2016/11/13 - 14:14
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode4: Transmit at channel2427MHz by 802.11n40	



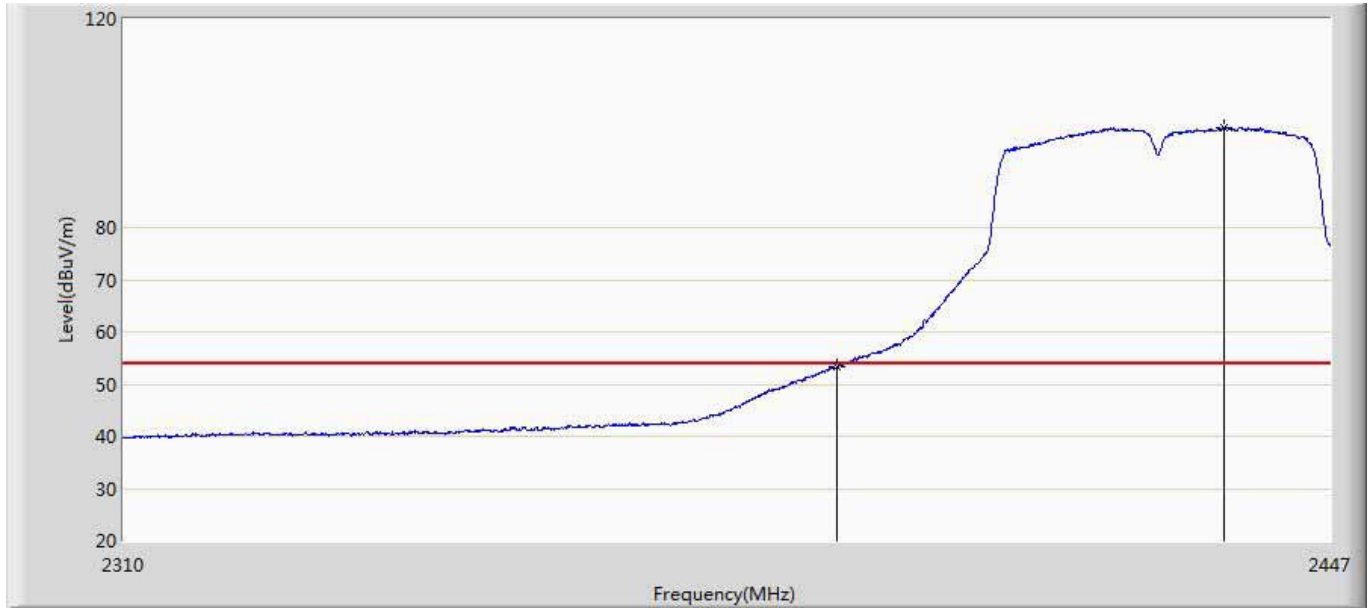
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.964	18.282	-0.036	54.000	35.682	AV
2	*	2431.040	100.295	64.487	46.295	54.000	35.808	AV

Engineer: Yock	
Site: AC5	Time: 2016/11/13 - 14:19
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode4: Transmit at channel2427MHz by 802.11n40	



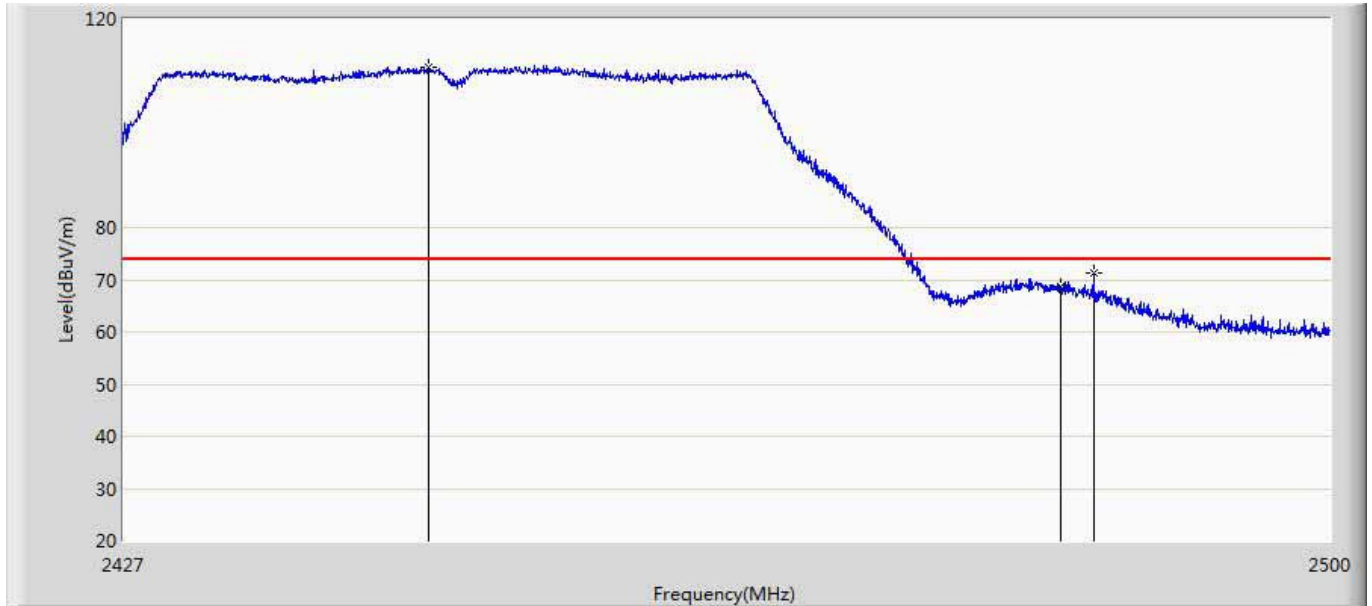
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	65.395	29.713	-8.605	74.000	35.682	PK
2	*	2433.300	109.325	73.518	35.325	74.000	35.807	PK

Engineer: Yock	
Site: AC5	Time: 2016/11/13 - 14:17
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode4: Transmit at channel2427MHz by 802.11n40	



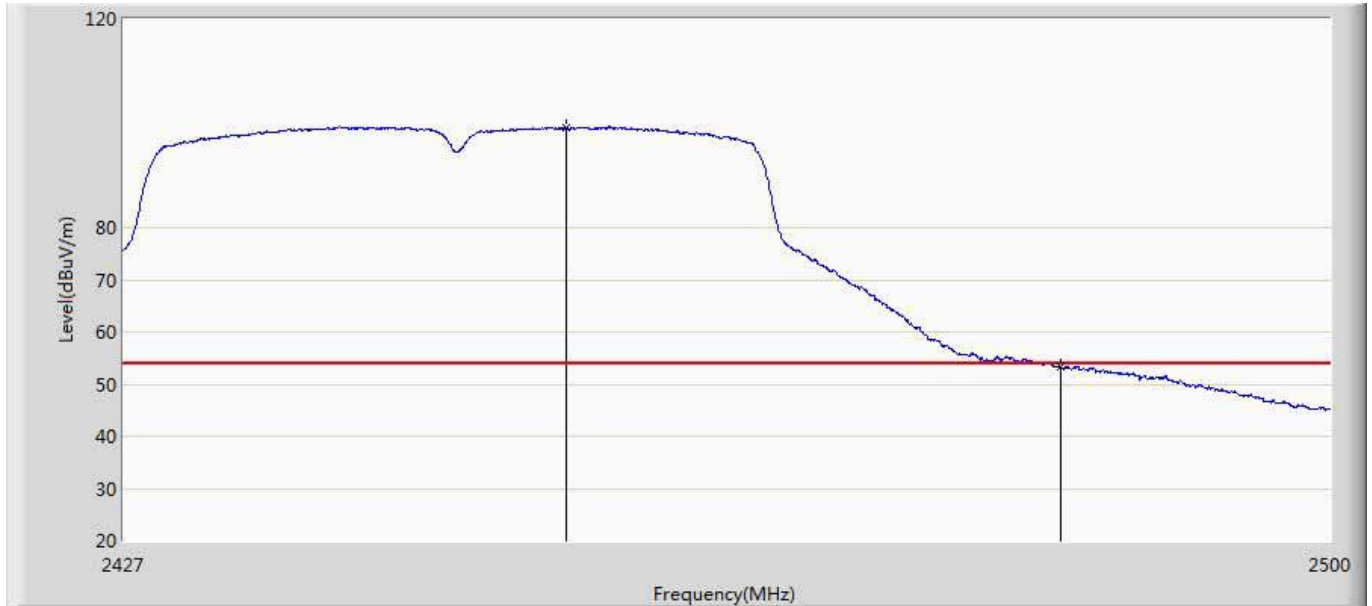
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.334	17.652	-0.666	54.000	35.682	AV
2	*	2434.670	99.074	63.267	45.074	54.000	35.807	AV

Engineer: Yock	
Site: AC5	Time: 2016/11/13 - 14:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode4: Transmit at channel2447MHz by 802.11n40	



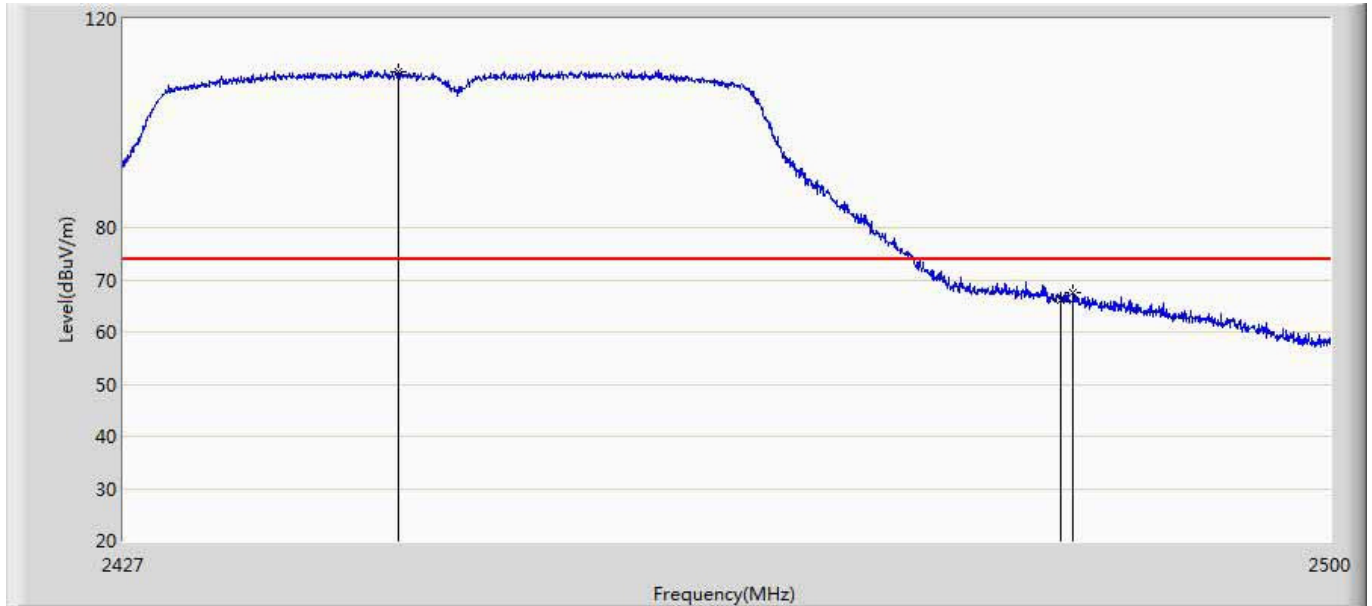
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2445.250	110.666	74.861	36.666	74.000	35.805	PK
2		2483.500	68.556	32.664	-5.444	74.000	35.891	PK
3		2485.546	71.387	35.481	-2.613	74.000	35.907	PK

Engineer: Yock	
Site: AC5	Time: 2016/11/13 - 14:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode4: Transmit at channel2447MHz by 802.11n40	



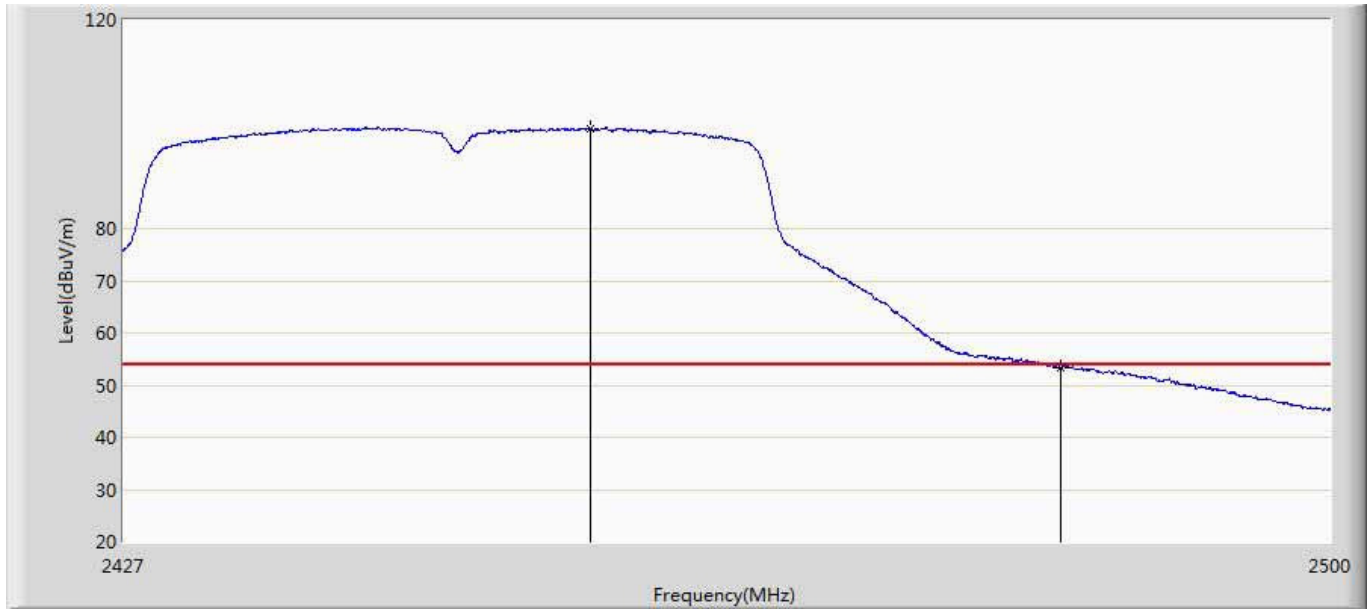
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2453.572	99.069	63.228	45.069	54.000	35.841	AV
2		2483.500	53.266	17.374	-0.734	54.000	35.891	AV

Engineer: Yock	
Site: AC5	Time: 2016/11/13 - 14:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode4: Transmit at channel2447MHz by 802.11n40	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2443.498	109.974	74.170	35.974	74.000	35.804	PK
2		2483.500	66.130	30.238	-7.870	74.000	35.891	PK
3		2484.305	67.481	31.584	-6.519	74.000	35.897	PK

Engineer: Yock	
Site: AC5	Time: 2016/11/13 - 14:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:2.4GHz 300Mbps 9dBi Outdoor CPE	Power: AC 120V / 60Hz
Note: Mode4: Transmit at channel2447MHz by 802.11n40	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2455.032	99.051	63.203	45.051	54.000	35.848	AV
2		2483.500	53.299	17.407	-0.701	54.000	35.891	AV

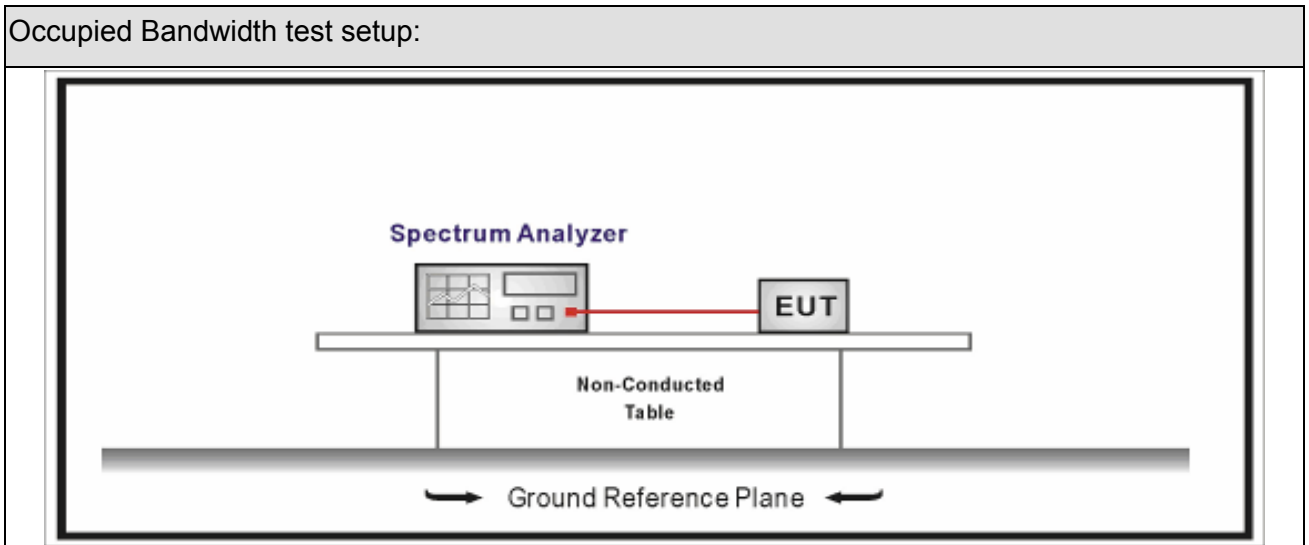
7. Occupied Bandwidth

7.1. Test Equipment

Occupied Bandwidth / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2016.02.04	2017.02.04
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2016.04.09	2017.04.09
MXA Signal Analyzer	Keysight	N9020A	MY56060147	2016.04.09	2017.04.09
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2016.04.10	2017.04.10

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

7.2. Test Setup



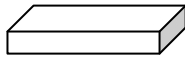
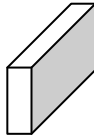
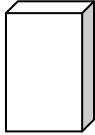
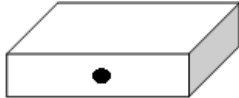


7.3. Limit

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	: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power	: AC 120V / 60Hz
Test Mode	: Mode1~4	Test Site	: TR8
Test Date	: 2016.10.17		

Mode	CH.	Test Freq. (MHz)	99% Occupied Bandwidth (MHz)		6dB Occupied Bandwidth (MHz)		Limit (kHz)	Result
			Ant0	Ant1	Ant0	Ant1		
1	01	2412	13.370	13.386	9.567	10.04	>500	Pass
1	06	2437	13.374	13.358	10.03	9.574	>500	Pass
1	11	2462	13.325	13.362	9.577	10.04	>500	Pass
2	01	2412	16.138	16.124	15.10	15.10	>500	Pass
2	06	2437	16.119	16.136	15.11	15.10	>500	Pass
2	11	2462	16.128	16.125	15.10	15.11	>500	Pass
3	01	2412	17.188	17.186	15.09	15.10	>500	Pass
3	06	2437	17.197	17.213	15.09	15.09	>500	Pass
3	11	2462	17.154	17.159	15.08	15.07	>500	Pass
4	03	2422	35.643	35.646	33.76	33.78	>500	Pass
4	06	2437	35.631	35.598	33.85	33.82	>500	Pass
4	09	2452	35.592	35.621	33.84	33.79	>500	Pass

Note : The worst case of Occupied Bandwidth as below:

Mode 1 CH01 (2412MHz) Ant0



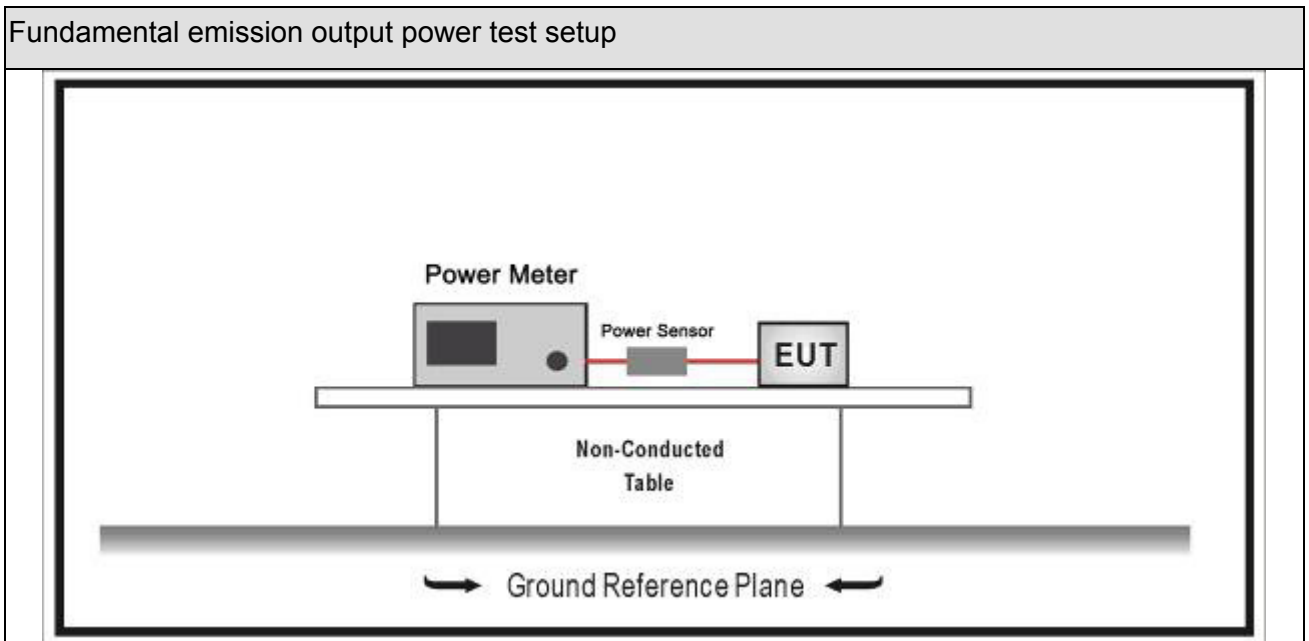
8. Fundamental emission output power

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	2016.01.04	2017.01.04
Spectrum Analyzer	Agilent	N9010A	MY48030494	2016.02.04	2017.02.04
Wideband Peak Power Meter	Anritsu	ML2495A	0905006	2016.10.14	2017.10.14
Power Sensor	Anritsu	MA2411B	0846014	2016.10.14	2017.10.14
Temperature/Humidity Meter	zhicheng	ZC1-2	TR8-TH	2016.04.10	2017.04.10

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

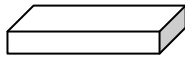
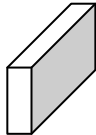
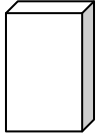
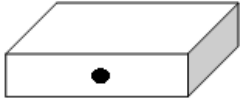


Fundamental emission output power Limit

GTX

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 ≥ 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

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	: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power	: AC 120V / 60Hz
Test Mode	: Mode1~4	Test Site	: TR8
Test Date	: 2016.10.26		

Mode	Channel	Test Frequency (MHz)	Average Power Output (dBm)		Total Average (dBm)	Antenna Gain (dBi)	Limit (dBm)	Result
			Ant0	Ant1				
1	01	2412	23.94	23.88	26.92	9.0	29	Pass
1	02	2417	24.61	24.35	27.49	9.0	29	Pass
1	06	2437	25.81	25.62	28.73	9.0	29	Pass
1	10	2457	23.82	23.59	26.72	9.0	29	Pass
1	11	2462	22.75	22.49	25.63	9.0	29	Pass
2	01	2412	21.66	21.53	24.61	9.0	29	Pass
2	02	2417	22.74	22.51	25.64	9.0	29	Pass
2	06	2437	25.92	25.68	28.81	9.0	29	Pass
2	10	2457	21.88	21.57	24.74	9.0	29	Pass
2	11	2462	20.63	20.47	23.56	9.0	29	Pass
3	01	2412	20.81	20.58	23.71	9.0	29	Pass
3	02	2417	22.76	22.54	25.66	9.0	29	Pass
3	06	2437	25.79	25.51	28.66	9.0	29	Pass
3	10	2457	21.91	21.73	24.83	9.0	29	Pass
3	11	2462	19.85	19.52	22.70	9.0	29	Pass
4	03	2422	15.95	15.73	18.85	9.0	29	Pass

4	04	2427	16.63	16.38	19.52	9.0	29	Pass
4	06	2437	21.76	21.52	24.65	9.0	29	Pass
4	08	2447	17.82	17.55	20.70	9.0	29	Pass
4	09	2452	15.83	15.66	18.76	9.0	29	Pass

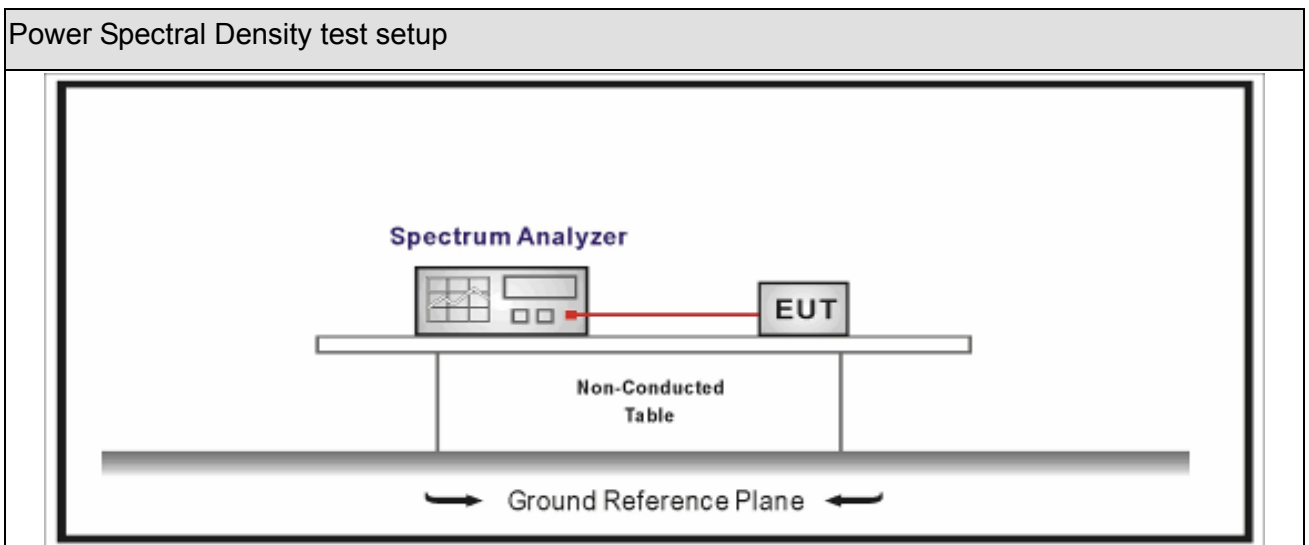
9. Power Spectral Density

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	2016.02.04	2017.02.04
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2016.04.09	2017.04.09
MXA Signal Analyzer	Keysight	N9020A	MY56060147	2016.04.09	2017.04.09
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2016.04.10	2017.04.10

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

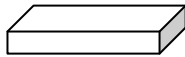
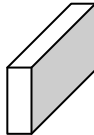
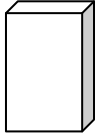
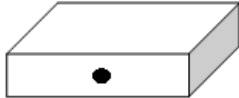


Power Spectral Density Limit

Power Spectral Density

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)

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	: 2.4GHz 300Mbps 9dBi Outdoor CPE	Power	: AC 120V / 60Hz
Test Mode	: Mode1~4	Test Site	: TR8
Test Date	: 2016.11.01		

Mode	Channel	Test Frequency (MHz)	Measurement PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	Directional Gain (dBi)	Limit (dBm/3kHz)	Result
			Ant0	Ant1				
1	01	2412	1.295	0.858	4.092	9.0	7.0	Pass
1	06	2437	2.375	1.837	5.125	9.0	7.0	Pass
1	11	2462	0.731	-0.099	3.346	9.0	7.0	Pass
2	01	2412	-0.920	-0.650	2.227	9.0	7.0	Pass
2	06	2437	1.622	1.400	4.523	9.0	7.0	Pass
2	11	2462	-2.072	-1.145	1.426	9.0	7.0	Pass
3	01	2412	-1.281	-0.948	1.899	9.0	7.0	Pass
3	06	2437	2.933	1.075	5.113	9.0	7.0	Pass
3	11	2462	-2.648	-2.648	0.362	9.0	7.0	Pass
4	03	2422	-8.454	-9.584	-5.972	9.0	7.0	Pass
4	06	2437	-4.240	-3.126	-0.637	9.0	7.0	Pass
4	09	2452	-9.366	-9.843	-6.588	9.0	7.0	Pass

Mode 1 CH06(2437MHz) Ant0



Mode 1 CH06(2437MHz) Ant1



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

The EUT use permanently attached antennas and comply with FCC 15.203.





The End