



FCC/ IC TEST REPORT

According to

FCC CFR Title 47 Part 15 Subpart E (15.407) & RSS-247 Issue 1

Applicant	:	Qualcomm Atheros, Inc.
Address	:	1700 Technology Drive, San Jose, CA 95110
Manufacturer	:	Qualcomm Atheros, Inc.
Address	:	1700 Technology Drive, San Jose, CA 95110
Equipment	:	802.11a/b/g/n/ac + BT 4.1 M.2 2230 Type Card
Brand	:	Qualcomm Atheros
Model No.	:	QCNFA344A
FCC ID	:	PPD-QCNFA344AH
IC ID	:	4104A-QCNFA344A

■ The test result refers exclusively to the test presented test model / sample.,

■ Without written approval of **Cerpass Technology (Suzhou) Co.,Ltd.** the test report shall not be reproduced except in full.

■ The test was carried out on Jul 01,2016~Jul 25,2016 at **Cerpass Technology(Suzhou) Corp.**

I HEREBY CERTIFY THAT:

The measurements shown in this test report were made in accordance with the procedures given in **ANSI C63.10**. The equipment was **passed** the test performed according to **FCC Rules and Regulations Part 15 Subpart E (15.407) and RSS-247 Issue 1**.

Approved by:

Miro Chueh
EMC/RF Manager

Laboratory Accreditation:

Cerpass Technology Corporation Test Laboratory

☐	NVLAP LAB Code:	200954-0
	TAF LAB Code:	1439

Cerpass Technology (SuZhou) Co., Ltd.

☒	NVLAP LAB Code:	200814-0
	CNAS LAB Code:	L5515



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History of this test report

Report No.	Version	Issue Date	Description
SEDL1606081	Rev.01	2016-07-26	Initial release



1. Test Configuration of Equipment under Test

1.1 Feature of Equipment under Test

WLAN Module	QCNFA344A
Frequency Range	802.11a/n/ac(20MHz): 5180~5320MHz, 5500~5720MHz,5725~5850MHz 802.11n/ac(40MHz): 5190~5310MHz, 5510~5710,5755~5795MHz 802.11ac(80MHz): 5210MHz,5290MHz,5530MHz,5610MHz,5690MHz,5775MHz
Type of Modulation	802.11a/g/n/ac: OFDM
Data Rate	802.11a: 6/9/12/18/24/36/48/54 Mbps 802.11ac: up to 433.3 Mbps
Channel Control	Auto
Antenna Delivery	2*Tx + 2*Rx for 5GHz

Host Details,

Host Manufacture	Host Type	Host Model
Lenovo	Notebook Computer	Lenovo YOGA 710-11IKB

1.2 Antenna Construction and Directional Gain

Antenna	Manufacturer	Part Number	Peak Gain
PIFA Antenna(Main)	Speed	DC33001F300	2400- 2500MHz: 1.46dBi, 5150- 5850MHz: 1.95dBi
PIFA Antenna(Aux)	Speed	DC33001F310	2400- 2500MHz: 0.26dBi, 5150- 5850MHz: 2.82dBi
PIFA Antenna(Main)	HongLin	DC33001F000	2400- 2500MHz: 0.87dBi, 5150- 5850MHz: 0.58dBi
PIFA Antenna(Aux)	HongLin	DC33001F010	2400- 2500MHz: 0.64dBi, 5150- 5850MHz: 0.38dBi

Note: This EUT will collocation two kinds of antenna, we choose one of the high peak gain antenna for all RF testing.



1.3 Channels

802.11a/n/ac(20MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180 MHz	40	5200 MHz	44	5220 MHz	48	5240 MHz
52	5260 MHz	56	5280 MHz	60	5300 MHz	64	5320 MHz
100	5500 MHz	104	5520 MHz	108	5540 MHz	112	5560 MHz
116	5580 MHz	120	5600 MHz	124	5620 MHz	128	5640 MHz
132	5660 MHz	136	5680 MHz	140	5700 MHz	144	5720 MHz
149	5745 MHz	153	5765 MHz	157	5785 MHz	161	5805 MHz
165	5825 MHz	N/A	N/A	N/A	N/A	N/A	N/A
802.11n/ac(40MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz	54	5270 MHz	62	5310 MHz
102	5510 MHz	110	5550 MHz	118	5590 MHz	126	5630 MHz
134	5670 MHz	142	5710 MHz	151	5755 MHz	159	5795 MHz
802.11ac(80MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz	106	5530 MHz	122	5610 MHz
138	5690 MHz	155	5775 MHz	N/A	N/A	N/A	N/A



1.4 Power Parameter Value of the test software

Ch.	Freq(MHz)	11a	VHT20
36	5180	14.5	14.5
38	5200	14.5	14.5
44	5220	14.5	14.5
48	5240	14.5	14.5
52	5260	16	16
56	5280	14.5	14.5
60	5300	14.5	14.5
64	5320	14.5	14.5
100	5500	12.5	12.5
104	5520	14.5	14
108	5540	14.5	14
112	5560	14.5	14
116	5580	14.5	14
120	5600	14.5	14
124	5620	14.5	14
128	5640	14.5	14
132	5660	14.5	14
136	5680	14	14
140	5700	12.5	13.5
144	5720	14	14
149	5745	10.5	8
153	5765	15	15
157	5785	15	15
161	5805	15	15
165	5825	14	13



Ch.	Freq(MHz)	VHT40
38	5190	12
46	5230	13.5
54	5270	13.5
62	5310	13.5
102	5510	10
110	5550	14
118	5590	14
126	5630	14
134	5670	12.5
142	5710	14
151	5755	6
159	5795	14

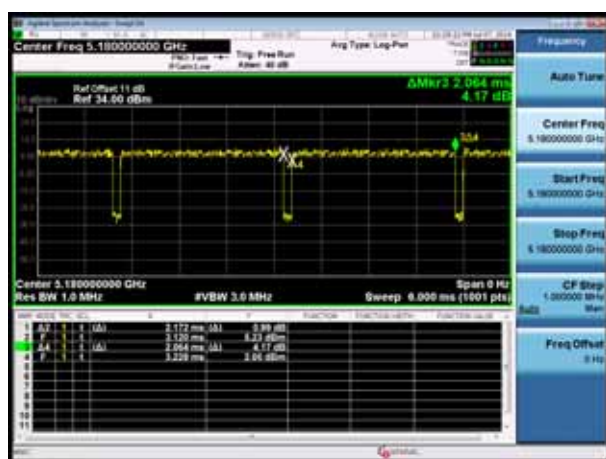
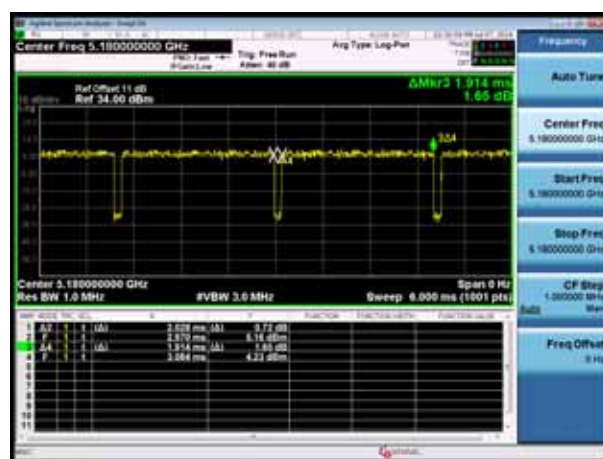
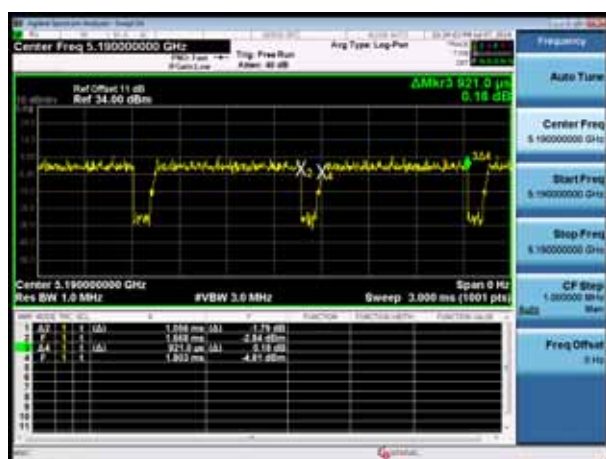
Ch.	Freq(MHz)	VHT80
42	5210	12.5
58	5290	12
106	5530	12
122	5610	14.5
138	5690	14.5
155	5775	6

Note: QRCT_CONN software is used for power transmission control offered by the manufactory.



1.5 Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle
802.11a	5180	95.03%
802.11ac (20MHz)	5180	94.38%
802.11ac (40MHz)	5190	87.22%
802.11ac(80MHz)	5210	76.42%

Transmit at 5180MHz by 802.11a**Transmit at 5180MHz by 802.11 ac(20MHz)****Transmit at 5190MHz by 802.11 ac(40MHz)****Transmit at 5210MHz by 802.11 ac(80MHz)**



1.6 Test Manner

Test Manner	
a	During testing, the interface cables and equipment positions were varied according to ANSI C63.10
b	Adjust the EUT at the test mode and the test channel. Then test.

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

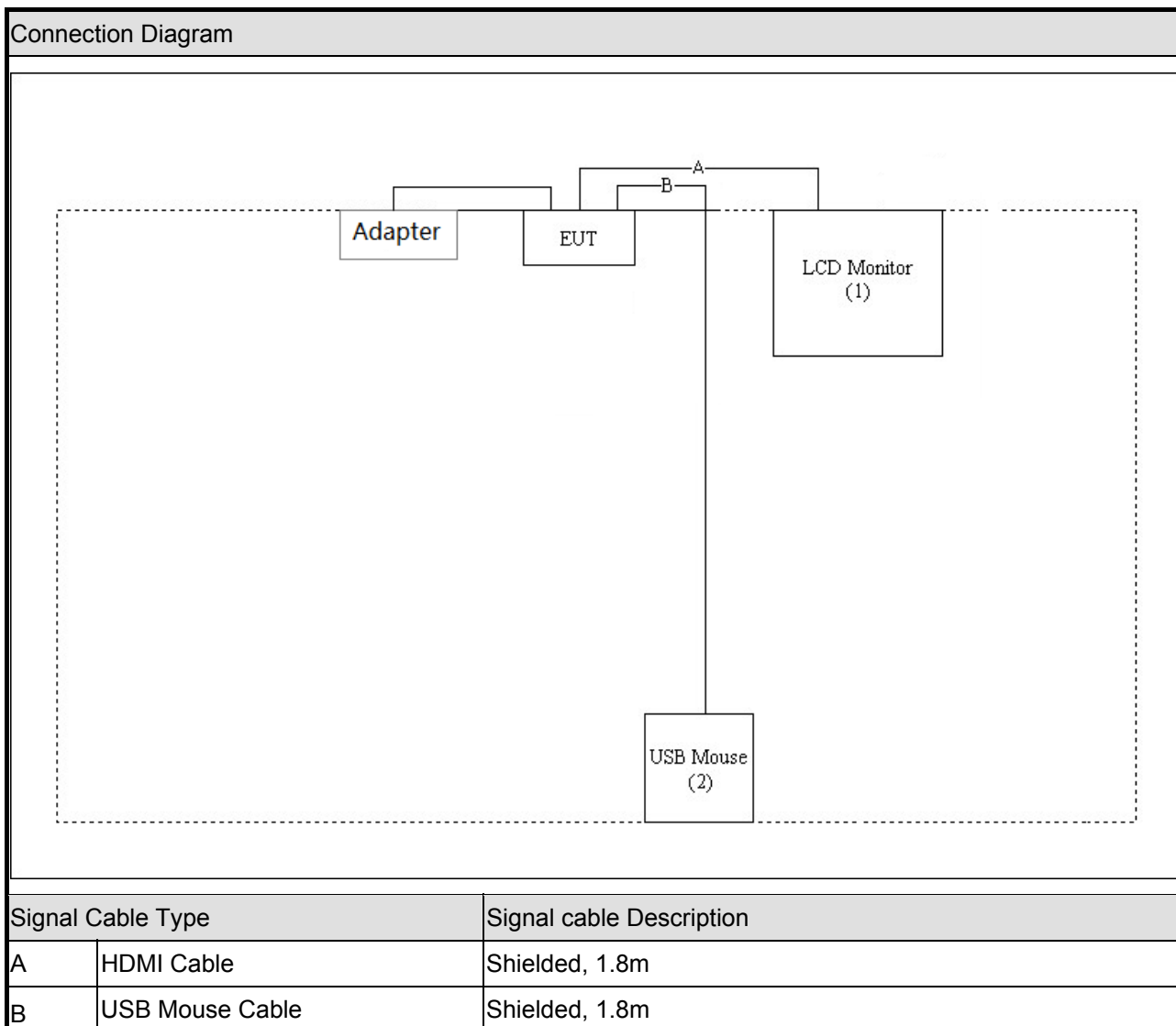
Note: Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

**1.7 Description of Test System**

Product		Manufacturer	Model No.	Power Cord
1	LCD Monitor	DELL	U2713HMt	Non-Shielded, 1.8m
2	USB Mouse	LENOVO	M-U0025-O	Power by Notebook



1.8 Configuration of Tested System





2. Technical Test

2.1 Summary of Test Result

☒ No deviations from the test standards

☐ Deviations from the test standards as below description:

FCC Part Section(s)	Test Description	Test Result	Reference
15.407(a)(1)(ii), (2), (3)	Maximum Conducted Output Power	Pass	Section 7.4
15.407(b)(1), (2), (3), (4)	Undesirable Emissions	Pass	Section 7.8 & 7.9
15.205, 15.209 15.407(b)(5), (6), (7)	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Pass	Section 7.8 & 7.9

ANSI C63.10: 2013; RSS-247 issue 1; RSS-Gen issue 4

IC Rule	. Description of Test	Result
Item 6	. Spurious Emission(Radiated)	Pass
Item 6	. Maximum Peak Output Power	Pass



2.2 General Information of Test

Test Site	Cerpass Technology (Suzhou) Co.,Ltd
Test Site Location	No.66,Tangzhuang Road, Suzhou Industrial Park, Jiangsu 215006, China
NVLAP LAB Code	200814-0
FCC Registration Number	916572, 331395
IC Registration Number	7290A-1, 7290A-2
VCCI Registration Number	T-1945 for Telecommunication Test C-2919 for Conducted emission test R-2670 for Radiated emission test below 1GHz G-227 for Radiated emission test above 1GHz
Frequency Range Investigated	Conducted: from 150kHz to 30MHz Radiation: from 30MHz to 40000MHz
Test Distance	The test distance of radiated emission from antenna to EUT is 3 M.

2.3 Measurement Uncertainty

Measurement Item	Measurement Frequency	Polarization	Uncertainty
Radiated Emission	30 MHz ~ 40GHz	Vertical	± 4.11 dB
		Horizontal	± 4.10 dB
Maximum Peak Output Power	---	---	± 1.4 dB
Conducted Band Edges	---	---	± 2.2 dB



3. Test of Radiated Emission

3.1 Test Limit

3.1.1 Limits of radiated emission

According to §15.209(a), except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Distance Meters	Radiated (μ V / M)	Radiated (dB μ V/ M)
30-88	3	100	40.0
88-216	3	150	43.5
216-960	3	200	46.0
Above 960	3	500	54.0

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB.

3.1.2 Limits of unwanted emission out of the restricted bands

LIMIT	
Field strength at 3M (dB μ V/ M)	
PK	AV
74	54



3.2 Test Procedures

KDB 789033 D02v01r02 – Section II.G.4 (Procedure for Unwanted Emissions Measurements below 1000 MHz)

KDB 789033 D02v01r02 – Section II.G.5 (Procedure for Unwanted Maximum Emissions Measurements above 1000 MHz)

KDB 789033 D02v01r02 – Section II.G.6 (Procedures for Average Unwanted Emissions Measurements above 1000 MHz)



3.3 Test Setting

Quasi-Peak Measurements below 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = 120 kHz
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

Average Measurements above 1GHz (Method AD)

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be $> 2 \times \text{span/RBW}$)
6. Sweep time = auto
7. Trace was averaged over at 100 sweeps

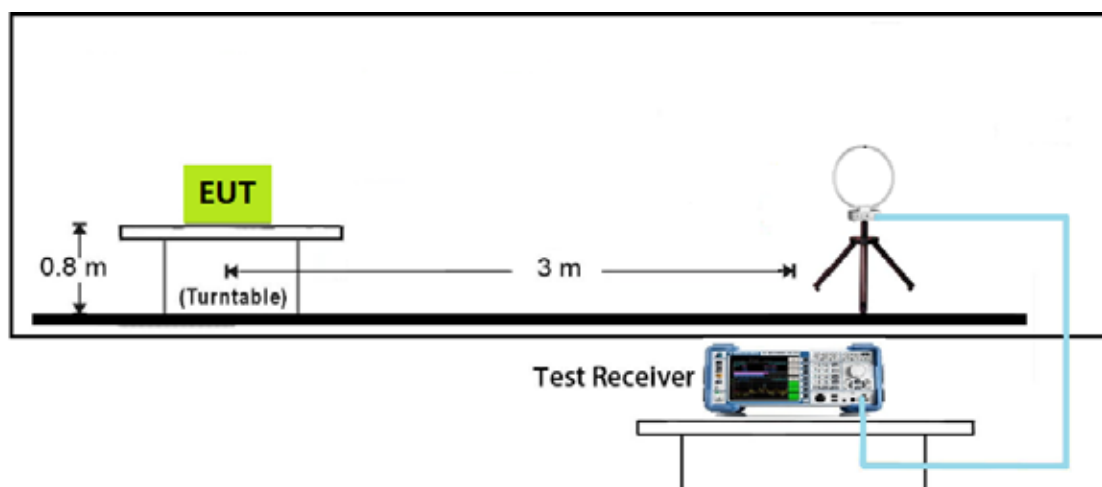
Peak Measurements above 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize



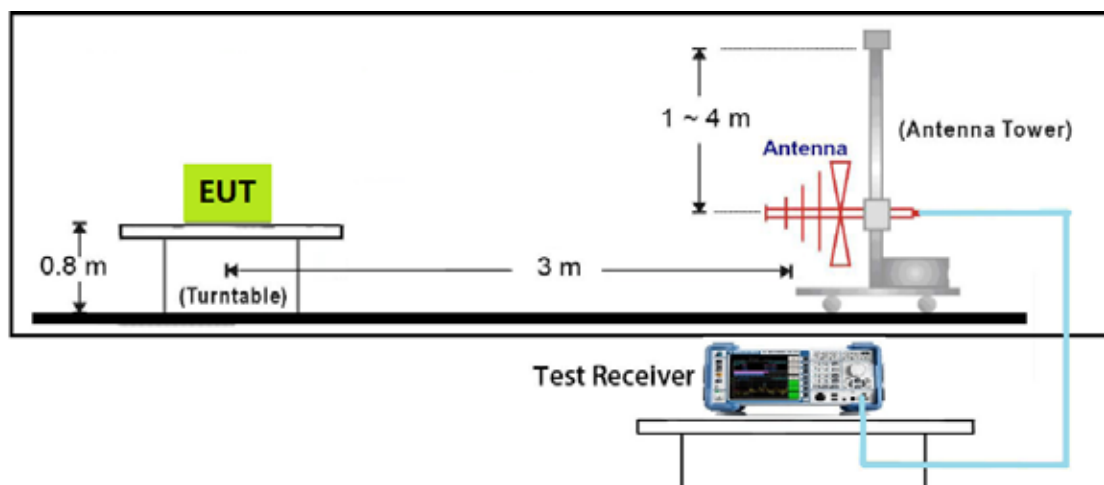
3.4 Typical Test Setup

9kHz~30MHz Test Setup

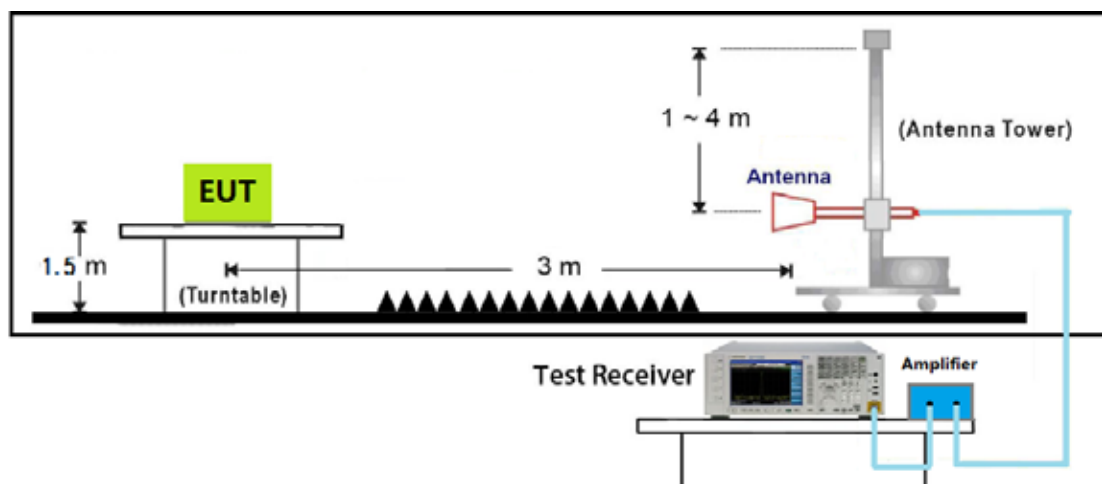




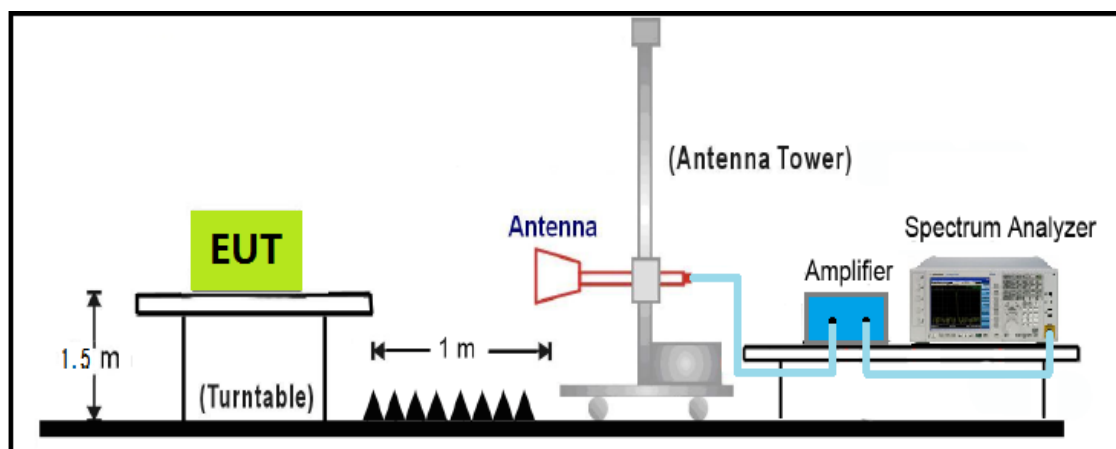
Below 1GHz Test Setup



1GHz~18GHz Test Setup



18GHz~40GHz Test Setup





3.5 Measurement equipment

Instrument	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date.
EMI Test Receiver	R&S	ESCI	100563	2016.03.10	2017.03.09
Spectrum Analyzer	R&S	FSP40	100047	2016.03.27	2017.03.26
H64 Preamplifier	HP	8447F	3113A05582	2016.03.10	2017.03.09
Preamplifier	COM-POWER	PA-840	711885	2016.03.24	2017.03.23
Preamplifier	Agilent	8449B	3008A02342	2016.03.10	2017.03.09
Ultra Broadband Antenna	R&S	HL562	100362	2016.05.03	2017.05.02
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	9120D-619	2016.05.03	2017.05.02
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	9170-347	2016.05.03	2017.05.02
Spectrum Analyzer	Agilent	E4407B	MY44211883	2015.09.25	2016.09.25
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-002	2016.03.10	2017.03.09



3.6 Test Result and Data

The worst case of Radiated Emission below 1GHz:

Engineer :Ternence	
Site : EMC Lab AC 102	Time : 2016-07-14
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT :Notebook computer	Probe : VERTICAL/ HORIZONTAL
Power : AC 120V/60Hz	Note : Normal Link

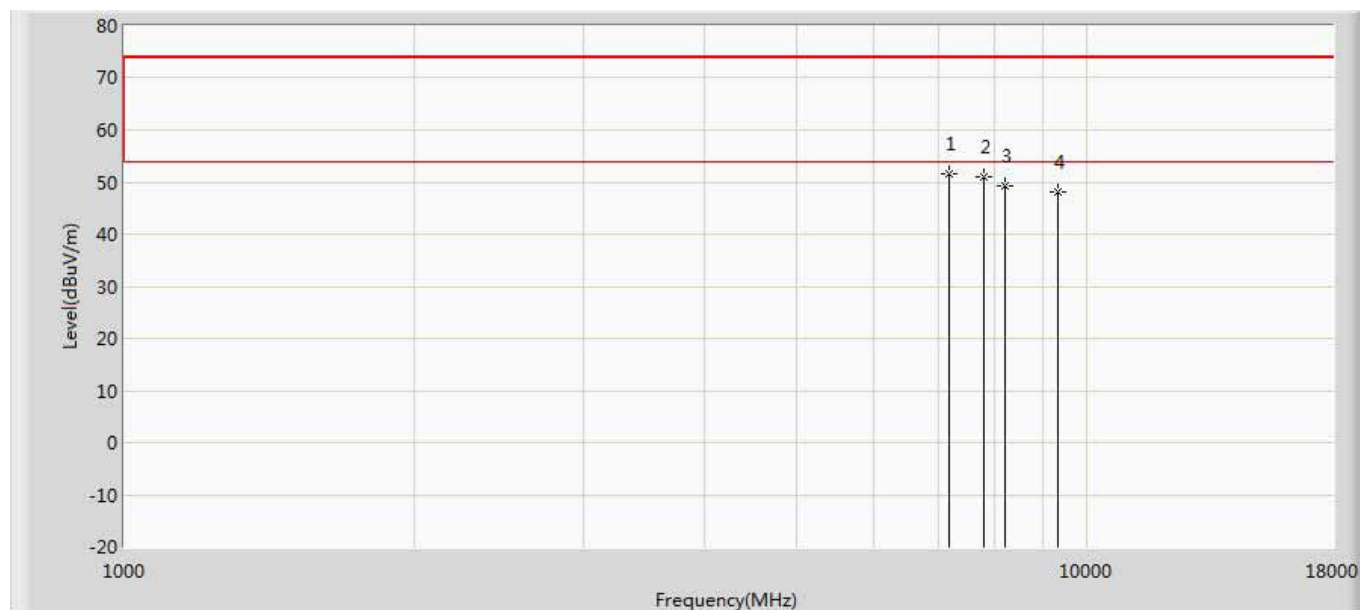
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	AntPol. H/V
1	40.7	-8.2	33.6	25.4	40.00	-14.6	QP	H
2	49.7	-14.4	27.9	13.4	40.00	-26.6	QP	H
3	58.9	-15.6	29.7	14.1	40.00	-25.9	QP	H
4	70.6	-20.6	25.0	4.4	40.00	-35.6	QP	H
5	94.6	-17.1	25.4	8.4	43.50	-35.1	QP	H
6	129.6	-13.8	26.3	12.5	43.50	-31.0	QP	H

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	AntPol. H/V
1	30.7	-6.7	24.4	17.8	40.00	-22.2	QP	V
2	39.6	-8.3	34.7	26.5	40.00	-13.5	QP	V
3	47.4	-13.3	31.6	18.3	40.00	-21.7	QP	V
4	64.0	-17.3	34.0	16.8	40.00	-23.2	QP	V
5	73.7	-20.5	27.7	7.3	40.00	-32.7	QP	V
6	100.0	-15.9	35.9	20.0	43.50	-23.5	QP	V

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)

**The worst case of Radiated Emission 1~18GHz:**

Site: AC102	Time: 2016/07/14
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D(1-18GHz)	Polarity: Horizontal
EUT: QCNFA344A	Power: 120V/60HZ
Note: Transmit by 802.11 ac20MHz at 5180MHz	



No	Mark	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Type
1	*	7245.5	37.5	14.9	52.4	68.2(Note 6)	-15.8	PK
2		7809.9	33.9	16.6	50.5	68.2(Note 6)	-17.7	PK
3		8387.5	34.0	12.5	46.5	74	-27.5	PK
4		9039.3	35.6	13.6	49.2	74	-24.8	PK

Note:

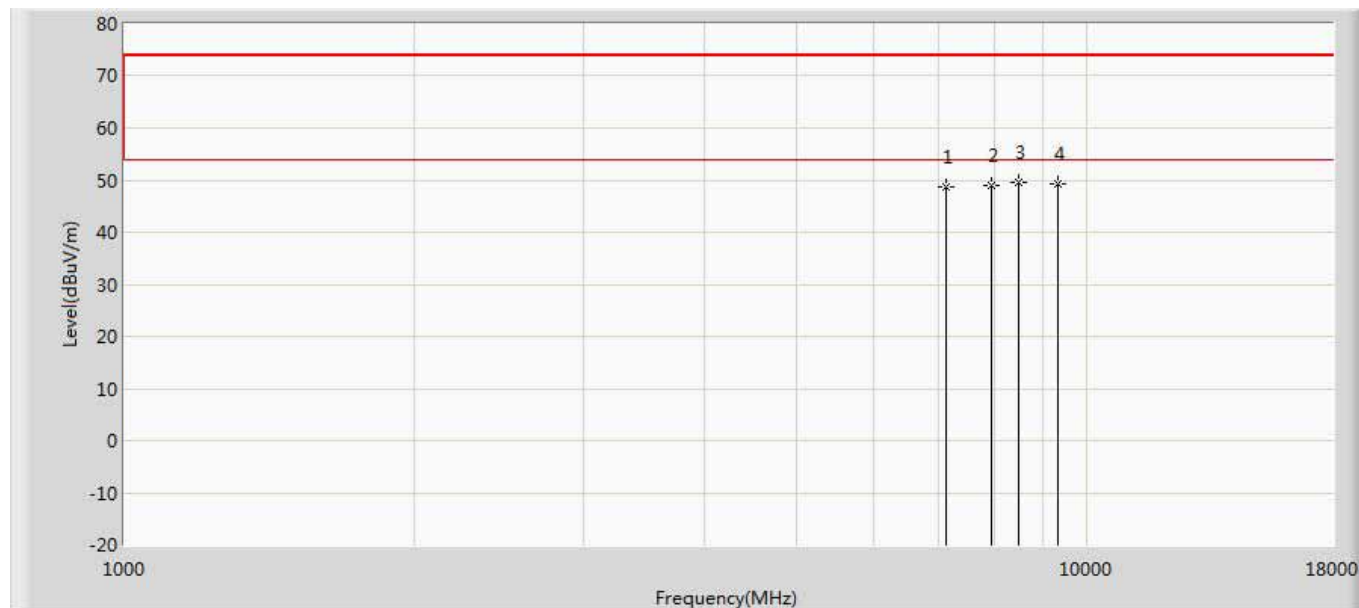
1. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.
6. Is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBuV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the PK limit for out of band spurious emissions of 68.2dBuV/m.
7. The data above is worst case.



8.The test trace is same as the ambient noise (the test frequency range18GHz~40GHz), therefore no data appear in the report.



Site: AC102	Time: 2016/07/14
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D(1-18GHz)	Polarity: Vertical
EUT: QCNFA344A	Power: 120V/60HZ
Note: Transmit by 802.11 ac20MHz at 5180MHz	



No	Mark	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Type
1		7177.4	37.3	12.7	50.0	68.2(Note 6)	-18.2	PK
2		7778.0	33.7	12.9	46.6	68.2(Note 6)	-21.6	PK
3	*	8387.6	33.7	15.7	49.4	74	-24.6	PK
4		9091.9	34.9	14.2	49.1	74	-24.9	PK

Note:

1. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.
6. Is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBuV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the PK limit for out of band spurious emissions of 68.2dBuV/m.
7. The data above is worst case.



8.The test trace is same as the ambient noise (the test frequency range18GHz~40GHz), therefore no data appear in the report.



Above 1G:

Engineer : Ternence	
Site : EMC Lab AC 102	Time : 2016-07-14
Limit : FCC_15_03M_PK	Margin : 6
EUT :Notebook computer	Probe : VERTICAL/ HORIZONTAL
Power : AC 120V/60Hz	Note : Transmit by 802.11 a

Frequency (MHz)	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna
5180	7186.4	36.5	14.5	51.0	68.2(Note 6)	-17.2	Peak	H
	7922.2	35.0	16.4	51.4	68.2(Note 6)	-16.8	Peak	H
	8426.3	35.5	14.2	49.7	74	-24.3	Peak	H
	9379.3	33.5	16.1	49.6	74	-24.4	Peak	H
	7185.4	37.7	13.9	51.6	68.2(Note 6)	-16.6	Peak	V
	7825.3	35.5	15.0	50.5	68.2(Note 6)	-17.7	Peak	V
	8279.5	33.5	14.3	47.8	74	-26.2	Peak	V
	9346.3	33.4	17.0	50.4	74	-23.6	Peak	V

Note:

1. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.
6. Is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBuV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the PK limit for out of band spurious emissions of 68.2dBuV/m.
- 7.The data above is worst case.
- 8.The test trace is same as the ambient noise (the test frequency range18GHz~40GHz), therefore no data appear in the report.



Frequency (MHz)	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna
5220	7156.3	35.1	14.9	50.0	68.2(Note 6)	-18.2	Peak	H
	7896.8	34.8	15.2	50.0	68.2(Note 6)	-18.2	Peak	H
	8440.6	34.9	15.4	50.3	74	-23.7	Peak	H
	9158.4	35.4	15.3	50.7	74	-23.3	Peak	H
	7186.2	37.1	12.0	49.1	68.2(Note 6)	-19.1	Peak	V
	7874.4	33.6	15.5	49.1	68.2(Note 6)	-19.1	Peak	V
	8400.8	33.6	12.8	46.4	74	-27.6	Peak	V
	9073.9	34.4	14.7	49.1	74	-24.9	Peak	V

Note:

1. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.
6. Is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBuV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the PK limit for out of band spurious emissions of 68.2dBuV/m.
7. The data above is worst case.
8. The test trace is same as the ambient noise (the test frequency range 18GHz~40GHz), therefore no data appear in the report.



Frequency (MHz)	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna
5240	7149.2	35.0	11.9	46.9	68.2(Note 6)	-21.3	Peak	H
	7790.2	33.7	15.6	49.3	68.2(Note 6)	-18.9	Peak	H
	8299.6	34.0	15.9	49.9	74	-24.1	Peak	H
	9103.6	34.4	13.7	48.1	74	-25.9	Peak	H
	7086.6	35.3	12.6	47.9	68.2(Note 6)	-20.3	Peak	V
	7785.3	33.0	16.6	49.6	68.2(Note 6)	-18.6	Peak	V
	8355.6	33.4	13.4	46.8	74	-27.2	Peak	V
	9041.7	34.3	16.1	50.4	74	-23.6	Peak	V

Note:

1. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.
6. Is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBuV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the PK limit for out of band spurious emissions of 68.2dBuV/m.
7. The data above is worst case.
8. The test trace is same as the ambient noise (the test frequency range 18GHz~40GHz), therefore no data appear in the report.



Frequency (MHz)	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna
5260	7122.0	35.0	12.0	47.0	68.2(Note 6)	-21.2	Peak	H
	7841.4	35.0	16.4	51.4	68.2(Note 6)	-16.8	Peak	H
	8253.8	33.3	13.1	46.4	74	-27.6	Peak	H
	9389.8	34.2	16.9	51.1	74	-22.9	Peak	H
	7240.3	36.2	12.1	48.3	68.2(Note 6)	-19.9	Peak	V
	7784.2	34.1	16.3	50.4	68.2(Note 6)	-17.8	Peak	V
	8454.3	33.2	15.8	49.0	74	-25.0	Peak	V
	9110.2	34.9	16.0	50.9	74	-23.1	Peak	V

Note:

1. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.
6. Is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBuV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the PK limit for out of band spurious emissions of 68.2dBuV/m.
7. The data above is worst case.
8. The test trace is same as the ambient noise (the test frequency range 18GHz~40GHz), therefore no data appear in the report.



Frequency (MHz)	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna
5300	7222.7	35.8	14.8	50.6	68.2(Note 6)	-17.6	Peak	H
	7867.7	32.8	15.6	48.4	68.2(Note 6)	-19.8	Peak	H
	8463.5	32.9	13.6	46.5	74	-27.5	Peak	H
	9133.6	34.5	13.5	48.0	74	-26.0	Peak	H
	7190.6	36.5	13.4	49.9	68.2(Note 6)	-18.3	Peak	V
	7885.4	33.4	16.9	50.3	68.2(Note 6)	-17.9	Peak	V
	8311.1	34.5	12.8	47.3	74	-26.7	Peak	V
	9032.6	35.0	14.5	49.5	74	-24.5	Peak	V
Frequency (MHz)	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna
5320	7153.1	35.7	11.6	47.3	68.2(Note 6)	-20.9	Peak	H
	7972.7	33.7	14.0	47.7	68.2(Note 6)	-20.5	Peak	H
	8388.0	34.7	14.6	49.3	74	-24.7	Peak	H
	9018.9	34.6	14.9	49.5	74	-24.5	Peak	H
	7153.3	37.1	12.6	49.7	68.2(Note 6)	-18.5	Peak	V
	7704.0	34.6	15.4	50.0	68.2(Note 6)	-18.2	Peak	V
	8352.7	34.0	13.6	47.6	74	-26.4	Peak	V
	9400.1	34.6	14.1	48.7	74	-25.3	Peak	V

Note:

1. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.
6. Is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBuV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the PK limit for out of band spurious emissions of 68.2dBuV/m.
7. The data above is worst case.
8. The test trace is same as the ambient noise (the test frequency range 18GHz~40GHz), therefore no data appear in the report.



Frequency (MHz)	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna
5500	7195.9	36.8	13.0	49.8	68.2(Note 6)	-18.4	Peak	H
	7764.3	35.4	13.8	49.2	68.2(Note 6)	-19.0	Peak	H
	8440.4	35.1	15.8	50.9	74	-23.1	Peak	H
	9467.6	34.4	17.4	51.8	74	-22.2	Peak	H
	7237.8	36.6	14.3	50.9	68.2(Note 6)	-17.3	Peak	V
	7987.0	33.4	14.9	48.3	68.2(Note 6)	-19.9	Peak	V
	8370.7	33.9	16.3	50.2	74	-23.8	Peak	V
	9141.3	35.0	16.3	51.3	74	-22.7	Peak	V

Note:

1. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.
6. Is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBuV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the PK limit for out of band spurious emissions of 68.2dBuV/m.
7. The data above is worst case.
8. The test trace is same as the ambient noise (the test frequency range 18GHz~40GHz), therefore no data appear in the report.



Frequency (MHz)	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna
5600	7228.6	36.5	15.3	51.8	68.2(Note 6)	-16.4	Peak	H
	7988.3	33.1	16.3	49.4	68.2(Note 6)	-18.8	Peak	H
	8462.9	34.3	15.8	50.1	74	-23.9	Peak	H
	9469.2	35.0	16.6	51.6	74	-22.4	Peak	H
	7223.7	36.1	15.1	51.2	68.2(Note 6)	-17.0	Peak	V
	7876.3	33.9	14.2	48.1	68.2(Note 6)	-20.1	Peak	V
	8406.7	33.9	15.9	49.8	74	-24.2	Peak	V
	9043.9	35.5	15.5	51.0	74	-23.0	Peak	V
Frequency (MHz)	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna
5700	7193.8	36.5	13.3	49.8	68.2(Note 6)	-18.4	Peak	H
	7852.2	34.7	16.3	51.0	68.2(Note 6)	-17.2	Peak	H
	8277.5	34.7	14.3	49.0	74	-25.0	Peak	H
	9094.8	34.6	13.5	48.1	74	-25.9	Peak	H
	7221.5	36.8	15.5	52.3	68.2(Note 6)	-15.9	Peak	V
	7843.0	33.6	16.8	50.4	68.2(Note 6)	-17.8	Peak	V
	8472.9	34.5	14.7	49.2	74	-24.8	Peak	V
	9133.9	35.2	14.5	49.7	74	-24.3	Peak	V

Note:

1. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.
6. Is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBuV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the PK limit for out of band spurious emissions of 68.2dBuV/m.
7. The data above is worst case.
8. The test trace is same as the ambient noise (the test frequency range 18GHz~40GHz), therefore no data appear in the report.



Engineer : Ternence	
Site : EMC Lab AC 102	Time : 2016-04-21
Limit : FCC_15_03M_PK	Margin : 6
EUT : Notebook computer	Probe : VERTICAL/ HORIZONTAL
Power : AC 120V/60Hz	Note : Transmit by 802.11 a

Frequency (MHz)	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna
5720	7245.5	37.5	14.9	52.4	68.2(Note 6)	-15.8	Peak	H
	7809.9	33.9	16.6	50.5	68.2(Note 6)	-17.7	Peak	H
	8387.5	34.0	12.5	46.5	74	-27.5	Peak	H
	9039.3	35.6	13.6	49.2	74	-24.8	Peak	H
	7177.4	37.3	12.7	50.0	68.2(Note 6)	-18.2	Peak	V
	7778.0	33.7	12.9	46.6	68.2(Note 6)	-21.6	Peak	V
	8387.6	33.7	15.7	49.4	74	-24.6	Peak	V
	9091.9	34.9	14.2	49.1	74	-24.9	Peak	V

Note:

1. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.
6. Is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBuV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the PK limit for out of band spurious emissions of 68.2dBuV/m.
7. The data above is worst case.
8. The test trace is same as the ambient noise (the test frequency range 18GHz~40GHz), therefore no data appear in the report.



Frequency (MHz)	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna
5745	7128.1	35.7	14.9	50.6	68.2(Note 6)	-17.6	Peak	H
	7854.3	34.5	13.8	48.3	68.2(Note 6)	-19.9	Peak	H
	8352.2	34.4	16.3	50.7	74	-23.3	Peak	H
	9092.7	35.0	15.4	50.4	74	-23.6	Peak	H
	7189.4	36.3	15.2	51.5	68.2(Note 6)	-16.7	Peak	V
	7852.5	34.6	16.4	51.0	68.2(Note 6)	-17.2	Peak	V
	8312.9	33.1	14.0	47.1	74	-26.9	Peak	V
	9152.6	35.3	17.0	52.3	74	-21.7	Peak	V

Note:

1. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.
6. Is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBuV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the PK limit for out of band spurious emissions of 68.2dBuV/m.
7. The data above is worst case.
8. The test trace is same as the ambient noise (the test frequency range 18GHz~40GHz), therefore no data appear in the report.



Frequency (MHz)	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna
5785	7181.5	35.9	14.0	49.9	68.2(Note 6)	-18.3	Peak	H
	7843.0	33.9	15.4	49.3	68.2(Note 6)	-18.9	Peak	H
	8176.4	34.3	16.0	50.3	74	-23.7	Peak	H
	9089.4	34.9	13.7	48.6	74	-25.4	Peak	H
	7179.1	35.8	14.5	50.3	68.2(Note 6)	-17.9	Peak	V
	7771.9	33.2	15.5	48.7	68.2(Note 6)	-19.5	Peak	V
	8367.8	34.4	14.1	48.5	74	-25.5	Peak	V
	9099.5	34.3	15.3	49.6	74	-24.4	Peak	V

Note:

1. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.
6. Is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBuV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the PK limit for out of band spurious emissions of 68.2dBuV/m.
7. The data above is worst case.
8. The test trace is same as the ambient noise (the test frequency range 18GHz~40GHz), therefore no data appear in the report.



Frequency (MHz)	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna
5825	7117.7	35.9	14.7	50.6	68.2(Note 6)	-17.6	Peak	H
	7911.3	33.5	14.7	48.2	68.2(Note 6)	-20.0	Peak	H
	8241.2	34.4	15.4	49.8	74	-24.2	Peak	H
	9051.0	35.7	14.3	50.0	74	-24.0	Peak	H
	7195.7	36.9	14.3	51.2	68.2(Note 6)	-17.0	Peak	V
	7845.6	34.3	13.2	47.5	68.2(Note 6)	-20.7	Peak	V
	8308.8	35.0	14.4	49.4	74	-24.6	Peak	V
	9060.5	35.5	13.0	48.5	74	-25.5	Peak	V

Note:

1. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.
6. Is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBuV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the PK limit for out of band spurious emissions of 68.2dBuV/m.
7. The data above is worst case.
8. The test trace is same as the ambient noise (the test frequency range 18GHz~40GHz), therefore no data appear in the report.



Engineer : Ternence	
Site : EMC Lab AC 102	Time : 2016-07-14
Limit : FCC_15_03M_PK	Margin : 6
EUT : Notebook computer	Probe : VERTICAL/ HORIZONTAL
Power : AC 120V/60Hz	Note : Transmit by 802.11 ac(20MHz)

Frequency (MHz)	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna
5180	7187.1	38.0	12.5	50.5	68.2(Note 6)	-17.7	Peak	H
	7806.9	35.3	13.8	49.1	68.2(Note 6)	-19.1	Peak	H
	8227.6	34.8	12.9	47.7	74	-26.3	Peak	H
	9340.2	34.4	17.3	51.7	74	-22.3	Peak	H
	7144.8	35.1	12.2	47.3	68.2(Note 6)	-20.9	Peak	V
	7952.1	33.8	16.7	50.5	68.2(Note 6)	-17.7	Peak	V
	8481.6	35.3	16.3	51.6	74	-22.4	Peak	V
	9336.3	33.8	13.6	47.4	74	-26.6	Peak	V

Note:

1. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.
6. Is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBuV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the PK limit for out of band spurious emissions of 68.2dBuV/m.
7. The data above is worst case.
8. The test trace is same as the ambient noise (the test frequency range 18GHz~40GHz), therefore no data appear in the report.



Frequency (MHz)	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna
5220	7190.4	37.0	13.6	50.6	68.2(Note 6)	-17.6	Peak	H
	7973.0	33.1	13.6	46.7	68.2(Note 6)	-21.5	Peak	H
	8276.1	34.6	14.0	48.6	74	-25.4	Peak	H
	9305.1	34.9	14.6	49.5	74	-24.5	Peak	H
	7044.0	34.9	14.8	49.7	68.2(Note 6)	-18.5	Peak	V
	7806.9	33.7	13.7	47.4	68.2(Note 6)	-20.8	Peak	V
	8213.7	34.1	14.2	48.3	74	-25.7	Peak	V
	9321.2	35.0	14.9	49.9	74	-24.1	Peak	V

Note:

1. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.
6. Is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBuV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the PK limit for out of band spurious emissions of 68.2dBuV/m.
7. The data above is worst case.
8. The test trace is same as the ambient noise (the test frequency range 18GHz~40GHz), therefore no data appear in the report.



Frequency (MHz)	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna
5240	7126.4	34.5	12.9	47.4	68.2(Note 6)	-20.8	Peak	H
	7920.3	34.1	13.8	47.9	68.2(Note 6)	-20.3	Peak	H
	8173.3	35.0	16.2	51.2	74	-22.8	Peak	H
	9030.4	34.3	13.6	47.9	74	-26.1	Peak	H
	7190.8	36.4	14.7	51.1	68.2(Note 6)	-17.1	Peak	V
	7849.7	34.0	14.2	48.2	68.2(Note 6)	-20.0	Peak	V
	8172.4	34.9	14.7	49.6	74	-24.4	Peak	V
	9134.8	33.2	14.2	47.4	74	-26.6	Peak	V

Note:

1. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.
6. Is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBuV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the PK limit for out of band spurious emissions of 68.2dBuV/m.
7. The data above is worst case.
8. The test trace is same as the ambient noise (the test frequency range 18GHz~40GHz), therefore no data appear in the report.



Frequency (MHz)	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna
5260	7228.6	36.2	12.6	48.8	68.2(Note 6)	-19.4	Peak	H
	7953.5	33.8	14.5	48.3	68.2(Note 6)	-19.9	Peak	H
	8287.4	35.0	15.5	50.5	74	-23.5	Peak	H
	9388.7	34.6	14.5	49.1	74	-24.9	Peak	H
	7146.5	36.3	13.3	49.6	68.2(Note 6)	-18.6	Peak	V
	7844.3	34.2	13.8	48.0	68.2(Note 6)	-20.2	Peak	V
	8316.6	34.5	13.8	48.3	74	-25.7	Peak	V
	9102.9	33.9	15.8	49.7	74	-24.3	Peak	V

Note:

1. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.
6. Is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBuV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the PK limit for out of band spurious emissions of 68.2dBuV/m.
7. The data above is worst case.
8. The test trace is same as the ambient noise (the test frequency range 18GHz~40GHz), therefore no data appear in the report.



Frequency (MHz)	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna
5300	7012.7	36.5	12.4	48.9	68.2(Note 6)	-19.3	Peak	H
	7806.2	34.3	13.9	48.2	68.2(Note 6)	-20.0	Peak	H
	8133.7	34.2	16.8	51.0	74	-23.0	Peak	H
	9416.4	34.6	14.1	48.7	74	-25.3	Peak	H
	7177.7	35.2	14.1	49.3	68.2(Note 6)	-18.9	Peak	V
	7826.9	33.3	14.5	47.8	68.2(Note 6)	-20.4	Peak	V
	8282.3	34.5	15.9	50.4	74	-23.6	Peak	V
	9056.5	34.7	13.8	48.5	74	-25.5	Peak	V
Frequency (MHz)	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna
5320	7135.3	35.3	14.6	49.9	68.2(Note 6)	-18.3	Peak	H
	7845.5	33.9	16.1	50.0	68.2(Note 6)	-18.2	Peak	H
	8134.0	34.5	13.1	47.6	74	-26.4	Peak	H
	9150.8	36.2	16.8	53.0	74	-21.0	Peak	H
	7213.2	36.1	11.8	47.9	68.2(Note 6)	-20.3	Peak	V
	7854.2	34.3	15.1	49.4	68.2(Note 6)	-18.8	Peak	V
	8174.2	35.3	16.4	51.7	74	-22.3	Peak	V
	9043.2	36.7	15.4	52.1	74	-21.9	Peak	V

Note:

1. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.
6. Is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBuV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the PK limit for out of band spurious emissions of 68.2dBuV/m.
7. The data above is worst case.
8. The test trace is same as the ambient noise (the test frequency range 18GHz~40GHz), therefore no data appear in the report.



Frequency (MHz)	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna
5500	7127.0	35.7	13.0	48.7	68.2(Note 6)	-19.5	Peak	H
	7852.3	33.9	15.6	49.5	68.2(Note 6)	-18.7	Peak	H
	9048.3	34.6	15.2	49.8	74	-24.2	Peak	H
	9448.4	34.8	14.2	49.0	74	-25.0	Peak	H
	7171.8	35.1	12.6	47.7	68.2(Note 6)	-20.5	Peak	V
	7810.8	34.4	14.2	48.6	68.2(Note 6)	-19.6	Peak	V
	8198.8	34.8	15.4	50.2	74	-23.8	Peak	V
	9304.6	35.1	14.4	49.5	74	-24.5	Peak	V

Note:

1. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.
6. Is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBuV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the PK limit for out of band spurious emissions of 68.2dBuV/m.
7. The data above is worst case.
8. The test trace is same as the ambient noise (the test frequency range 18GHz~40GHz), therefore no data appear in the report.



Frequency (MHz)	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna
5600	7198.9	37.4	13.8	51.2	68.2(Note 6)	-17.0	Peak	H
	7887.3	34.2	13.1	47.3	68.2(Note 6)	-20.9	Peak	H
	8413.1	35.0	14.0	49.0	74	-25.0	Peak	H
	9109.6	35.8	13.1	48.9	74	-25.1	Peak	H
	7178.9	35.3	13.3	48.6	68.2(Note 6)	-19.6	Peak	V
	7841.3	35.0	13.3	48.3	68.2(Note 6)	-19.9	Peak	V
	8163.1	34.7	14.9	49.6	74	-24.4	Peak	V
	9092.2	35.9	14.5	50.4	74	-23.6	Peak	V
Frequency (MHz)	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna
5700	7146.7	35.9	12.0	47.9	68.2(Note 6)	-20.3	Peak	H
	7841.4	33.9	14.0	47.9	68.2(Note 6)	-20.3	Peak	H
	8368.4	34.5	15.5	50.0	74	-24.0	Peak	H
	9423.6	34.6	16.7	51.3	74	-22.7	Peak	H
	7199.5	36.3	14.0	50.3	68.2(Note 6)	-17.9	Peak	V
	7810.9	34.4	13.8	48.2	68.2(Note 6)	-20.0	Peak	V
	8130.9	35.2	15.0	50.2	74	-23.8	Peak	V
	9160.8	35.2	15.9	51.1	74	-22.9	Peak	V

Note:

1. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.
6. Is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBuV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the PK limit for out of band spurious emissions of 68.2dBuV/m.
7. The data above is worst case.
8. The test trace is same as the ambient noise (the test frequency range 18GHz~40GHz), therefore no data appear in the report.



Frequency (MHz)	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna
5720	7113.3	35.6	14.6	50.2	68.2(Note 6)	-18.0	Peak	H
	7810.2	34.1	14.6	48.7	68.2(Note 6)	-19.5	Peak	H
	8092.7	34.7	15.6	50.3	74	-23.7	Peak	H
	9135.4	34.1	13.8	47.9	74	-26.1	Peak	H
	7112.7	35.4	14.8	50.2	68.2(Note 6)	-18.0	Peak	V
	7896.7	34.7	14.8	49.5	68.2(Note 6)	-18.7	Peak	V
	8426.6	34.7	14.2	48.9	74	-25.1	Peak	V
	9152.4	35.3	14.2	49.5	74	-24.5	Peak	V

Note:

1. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.
6. Is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBuV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the PK limit for out of band spurious emissions of 68.2dBuV/m.
7. The data above is worst case.
8. The test trace is same as the ambient noise (the test frequency range 18GHz~40GHz), therefore no data appear in the report.



Frequency (MHz)	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna
5745	7136.8	35.4	14.6	50.0	68.2(Note 6)	-18.2	Peak	H
	7844.4	34.7	13.4	48.1	68.2(Note 6)	-20.1	Peak	H
	8079.4	35.3	16.1	51.4	74	-22.6	Peak	H
	8253.5	35.4	14.2	49.6	74	-24.4	Peak	H
	7191.3	36.4	15.5	51.9	68.2(Note 6)	-16.3	Peak	V
	7986.9	34.2	16.3	50.5	68.2(Note 6)	-17.7	Peak	V
	8274.5	34.1	12.9	47.0	74	-27.0	Peak	V
	9492.7	34.6	14.1	48.7	74	-25.3	Peak	V
Frequency (MHz)	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna
5785	7220.5	37.1	14.9	52.0	68.2(Note 6)	-16.2	Peak	H
	7755.7	34.5	14.0	48.5	68.2(Note 6)	-19.7	Peak	H
	8401.8	34.0	13.7	47.7	74	-26.3	Peak	H
	9063.9	35.3	16.2	51.5	74	-22.5	Peak	H
	7190.3	35.8	13.1	48.9	68.2(Note 6)	-19.3	Peak	V
	7954.8	35.0	15.4	50.4	68.2(Note 6)	-17.8	Peak	V
	8317.2	34.8	13.1	47.9	74	-26.1	Peak	V
	9134.1	33.8	14.0	47.8	74	-26.2	Peak	V

Note:

1. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.
6. Is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBuV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the PK limit for out of band spurious emissions of 68.2dBuV/m.
7. The data above is worst case.
8. The test trace is same as the ambient noise (the test frequency range 18GHz~40GHz), therefore no data appear in the report.



Frequency (MHz)	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna
5825	7198.6	36.2	14.2	50.4	68.2(Note 6)	-17.8	Peak	H
	7773.0	34.6	14.9	49.5	68.2(Note 6)	-18.7	Peak	H
	8483.1	34.7	13.6	48.3	74	-25.7	Peak	H
	9183.9	34.8	14.3	49.1	74	-24.9	Peak	H
	7208.8	37.1	15.0	52.1	68.2(Note 6)	-16.1	Peak	V
	7806.5	33.7	14.6	48.3	68.2(Note 6)	-19.9	Peak	V
	8182.2	35.9	15.7	51.6	74	-22.4	Peak	V
	9098.7	35.1	13.1	48.2	74	-25.8	Peak	V

Note:

1. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.
6. Is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBuV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the PK limit for out of band spurious emissions of 68.2dBuV/m.
- 7.The data above is worst case.
- 8.The test trace is same as the ambient noise (the test frequency range18GHz~40GHz), therefore no data appear in the report.



Engineer : Ternence	
Site : EMC Lab AC 102	Time : 2016-07-14
Limit : FCC_15_03M_PK	Margin : 6
EUT :Notebook computer	Probe : VERTICAL/ HORIZONTAL
Power : AC 120V/60Hz	Note : Transmit by 802.11 ac(40MHz)

Frequency (MHz)	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna
5190	7138.3	35.4	14.4	49.8	68.2(Note 6)	-18.4	Peak	H
	7875.8	33.2	16.3	49.5	68.2(Note 6)	-18.7	Peak	H
	8388.6	34.8	15.6	50.4	74	-23.6	Peak	H
	9177.8	35.4	15.8	51.2	74	-22.8	Peak	H
	7135.5	35.3	13.8	49.1	68.2(Note 6)	-19.1	Peak	V
	7799.1	34.0	13.8	47.8	68.2(Note 6)	-20.4	Peak	V
	8261.0	34.4	13.3	47.7	74	-26.3	Peak	V
	9150.0	35.1	13.9	49.0	74	-25.0	Peak	V

Note:

1. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.
6. Is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBuV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the PK limit for out of band spurious emissions of 68.2dBuV/m.
7. The data above is worst case.
8. The test trace is same as the ambient noise (the test frequency range 18GHz~40GHz), therefore no data appear in the report.



Frequency (MHz)	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna
5230	7146.0	36.0	12.5	48.5	68.2(Note 6)	-19.7	Peak	H
	7772.8	34.0	16.8	50.8	68.2(Note 6)	-17.4	Peak	H
	8429.1	34.7	16.2	50.9	74	-23.1	Peak	H
	9052.8	34.8	13.8	48.6	74	-25.4	Peak	H
	7228.1	36.5	14.5	51.0	68.2(Note 6)	-17.2	Peak	V
	7879.4	32.9	15.4	48.3	68.2(Note 6)	-19.9	Peak	V
	8428.1	33.9	15.6	49.5	74	-24.5	Peak	V
	9144.6	34.5	14.8	49.3	74	-24.7	Peak	V

Note:

1. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.
6. Is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBuV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the PK limit for out of band spurious emissions of 68.2dBuV/m.
7. The data above is worst case.
8. The test trace is same as the ambient noise (the test frequency range 18GHz~40GHz), therefore no data appear in the report.



Frequency (MHz)	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna
5270	7144.5	36.3	14.5	50.8	68.2(Note 6)	-17.4	Peak	H
	7878.1	33.1	15.0	48.1	68.2(Note 6)	-20.1	Peak	H
	8130.3	34.3	15.9	50.2	74	-23.8	Peak	H
	9064.2	34.6	14.7	49.3	74	-24.7	Peak	H
	7228.3	36.0	14.3	50.3	68.2(Note 6)	-17.9	Peak	V
	7904.3	34.1	16.9	51.0	68.2(Note 6)	-17.2	Peak	V
	8428.8	34.4	14.4	48.8	74	-25.2	Peak	V
	9024.4	33.9	15.4	49.3	74	-24.7	Peak	V

Note:

1. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.
6. Is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBuV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the PK limit for out of band spurious emissions of 68.2dBuV/m.
7. The data above is worst case.
8. The test trace is same as the ambient noise (the test frequency range 18GHz~40GHz), therefore no data appear in the report.



Frequency (MHz)	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna
5310	7180.1	35.6	12.9	48.5	68.2(Note 6)	-19.7	Peak	H
	7900.9	34.3	15.1	49.4	68.2(Note 6)	-18.8	Peak	H
	8474.1	34.0	15.3	49.3	74	-24.7	Peak	H
	9018.0	34.5	12.8	47.3	74	-26.7	Peak	H
	7144.8	35.9	11.8	47.7	68.2(Note 6)	-20.5	Peak	V
	7903.5	34.0	16.7	50.7	68.2(Note 6)	-17.5	Peak	V
	8279.4	33.3	13.4	46.7	74	-27.3	Peak	V
	9354.5	33.0	16.0	49.0	74	-25.0	Peak	V

Note:

1. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.
6. Is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBuV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the PK limit for out of band spurious emissions of 68.2dBuV/m.
7. The data above is worst case.
8. The test trace is same as the ambient noise (the test frequency range 18GHz~40GHz), therefore no data appear in the report.



Frequency (MHz)	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna
5510	7148.0	36.6	13.9	50.5	68.2(Note 6)	-17.7	Peak	H
	7886.0	34.2	13.2	47.4	68.2(Note 6)	-20.8	Peak	H
	8243.3	35.1	15.5	50.6	74	-23.4	Peak	H
	9090.4	35.1	14.1	49.2	74	-24.8	Peak	H
	7172.8	35.9	12.1	48.0	68.2(Note 6)	-20.2	Peak	V
	7843.4	33.9	16.7	50.6	68.2(Note 6)	-17.6	Peak	V
	8165.8	34.9	14.3	49.2	74	-24.8	Peak	V
	9465.7	35.0	17.2	52.2	74	-21.8	Peak	V
Frequency (MHz)	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna
5590	7121.6	34.4	13.9	48.3	68.2(Note 6)	-19.9	Peak	H
	7947.5	35.0	13.9	48.9	68.2(Note 6)	-19.3	Peak	H
	8440.8	34.1	13.8	47.9	74	-26.1	Peak	H
	9134.4	34.1	13.6	47.7	74	-26.3	Peak	H
	7188.7	36.7	14.1	50.8	68.2(Note 6)	-17.4	Peak	V
	7961.6	32.8	15.0	47.8	68.2(Note 6)	-20.4	Peak	V
	8393.6	33.5	15.8	49.3	74	-24.7	Peak	V
	9303.0	35.5	16.7	52.2	74	-21.8	Peak	V

Note:

1. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.
6. Is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBuV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the PK limit for out of band spurious emissions of 68.2dBuV/m.
7. The data above is worst case.
8. The test trace is same as the ambient noise (the test frequency range 18GHz~40GHz), therefore no data appear in the report.



Frequency (MHz)	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna
5670	7190.7	35.4	15.0	50.4	68.2(Note 6)	-17.8	Peak	H
	7808.5	34.1	15.9	50.0	68.2(Note 6)	-18.2	Peak	H
	8354.0	32.0	13.1	45.1	74	-28.9	Peak	H
	9302.1	34.2	16.4	50.6	74	-23.4	Peak	H
	7169.8	35.0	12.3	47.3	68.2(Note 6)	-20.9	Peak	V
	7783.8	33.4	13.1	46.5	68.2(Note 6)	-21.7	Peak	V
	8466.1	32.8	14.0	46.8	74	-27.2	Peak	V
	9347.7	33.3	15.2	48.5	74	-25.5	Peak	V

Note:

1. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.
6. Is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBuV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the PK limit for out of band spurious emissions of 68.2dBuV/m.
7. The data above is worst case.
8. The test trace is same as the ambient noise (the test frequency range 18GHz~40GHz), therefore no data appear in the report.



Frequency (MHz)	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna
5710	7178.5	36.0	13.1	49.1	68.2(Note 6)	-19.1	Peak	H
	7884.7	33.8	16.7	50.5	68.2(Note 6)	-17.7	Peak	H
	8435.4	33.9	13.5	47.4	74	-26.6	Peak	H
	9024.2	34.9	14.4	49.3	74	-24.7	Peak	H
	7248.2	36.1	13.7	49.8	68.2(Note 6)	-18.4	Peak	V
	7811.5	34.0	15.0	49.0	68.2(Note 6)	-19.2	Peak	V
	8317.6	33.7	12.6	46.3	74	-27.7	Peak	V
	9184.1	34.9	16.7	51.6	74	-22.4	Peak	V
Frequency (MHz)	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna
5755	7222.3	37.2	13.0	50.2	68.2(Note 6)	-18.0	Peak	H
	7801.8	33.7	14.0	47.7	68.2(Note 6)	-20.5	Peak	H
	8329.9	33.6	15.3	48.9	74	-25.1	Peak	H
	9023.3	35.1	13.2	48.3	74	-25.7	Peak	H
	7206.2	35.2	12.3	47.5	68.2(Note 6)	-20.7	Peak	V
	7802.2	34.5	15.6	50.1	68.2(Note 6)	-18.1	Peak	V
	8240.8	33.8	16.3	50.1	74	-23.9	Peak	V
	9134.6	34.7	13.7	48.4	74	-25.6	Peak	V

Note:

1. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.
6. Is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBuV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the PK limit for out of band spurious emissions of 68.2dBuV/m.
7. The data above is worst case.
8. The test trace is same as the ambient noise (the test frequency range 18GHz~40GHz), therefore no data appear in the report.



Frequency (MHz)	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna
5795	7204.9	36.0	14.2	50.2	68.2(Note 6)	-18.0	Peak	H
	7886.1	33.4	13.8	47.2	68.2(Note 6)	-21.0	Peak	H
	9023.2	35.0	14.8	49.8	74	-24.2	Peak	H
	9426.2	36.3	15.4	51.7	74	-22.3	Peak	H
	7144.9	34.9	12.5	47.4	68.2(Note 6)	-20.8	Peak	V
	7869.8	33.3	16.2	49.5	68.2(Note 6)	-18.7	Peak	V
	8287.0	33.3	15.4	48.7	74	-25.3	Peak	V
	9432.3	34.3	14.2	48.5	74	-25.5	Peak	V

Note:

1. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.
6. Is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBuV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the PK limit for out of band spurious emissions of 68.2dBuV/m.
7. The data above is worst case.
8. The test trace is same as the ambient noise (the test frequency range 18GHz~40GHz), therefore no data appear in the report.



Engineer : Ternence	
Site : EMC Lab AC 102	Time : 2016-07-14
Limit : FCC_15_03M_PK	Margin : 6
EUT :Notebook computer	Probe : VERTICAL/ HORIZONTAL
Power : AC 120V/60Hz	Note : Transmit by 802.11 ac(80MHz)

Frequency (MHz)	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna
5210	7143.8	35.7	13.8	49.5	68.2(Note 6)	-18.7	Peak	H
	7832.4	35.1	13.8	48.9	68.2(Note 6)	-19.3	Peak	H
	8427.5	33.9	15.2	49.1	74	-24.9	Peak	H
	9432.7	34.0	17.1	51.1	74	-22.9	Peak	H
	7241.8	37.2	12.8	50.0	68.2(Note 6)	-18.2	Peak	V
	7911.8	34.2	16.4	50.6	68.2(Note 6)	-17.6	Peak	V
	8319.4	34.7	13.6	48.3	74	-25.7	Peak	V
	9362.9	33.2	13.6	46.8	74	-27.2	Peak	V

Note:

1. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.
6. Is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBuV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the PK limit for out of band spurious emissions of 68.2dBuV/m.
7. The data above is worst case.
8. The test trace is same as the ambient noise (the test frequency range 18GHz~40GHz), therefore no data appear in the report.



Frequency (MHz)	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna
5290	7114.1	35.4	14.3	49.7	68.2(Note 6)	-18.5	Peak	H
	7996.8	34.3	15.0	49.3	68.2(Note 6)	-18.9	Peak	H
	8445.2	32.7	16.3	49.0	74	-25.0	Peak	H
	9338.4	33.9	17.0	50.9	74	-23.1	Peak	H
	7156.4	36.1	13.7	49.8	68.2(Note 6)	-18.4	Peak	V
	7876.1	33.6	15.2	48.8	68.2(Note 6)	-19.4	Peak	V
	8243.0	34.5	16.4	50.9	74	-23.1	Peak	V
	9302.4	34.0	15.6	49.6	74	-24.4	Peak	V

Note:

1. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.
6. Is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBuV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the PK limit for out of band spurious emissions of 68.2dBuV/m.
7. The data above is worst case.
8. The test trace is same as the ambient noise (the test frequency range 18GHz~40GHz), therefore no data appear in the report.



Frequency (MHz)	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna
5530	7148.8	36.1	12.2	48.3	68.2(Note 6)	-19.9	7148.8	H
	7844.3	34.9	13.3	48.2	68.2(Note 6)	-20.0	7844.3	H
	8429.2	35.0	16.5	51.5	74	-22.5	8429.2	H
	9017.9	36.7	15.7	52.4	74	-21.6	9017.9	H
	7231.3	35.8	13.7	49.5	68.2(Note 6)	-18.7	7231.3	V
	7842.0	35.3	16.3	51.6	68.2(Note 6)	-16.6	7842.0	V
	8486.8	35.5	13.8	49.3	74	-24.7	8486.8	V
	9175.0	35.6	15.2	50.8	74	-23.2	9175.0	V

Note:

1. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.
6. Is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBuV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the PK limit for out of band spurious emissions of 68.2dBuV/m.
7. The data above is worst case.
8. The test trace is same as the ambient noise (the test frequency range 18GHz~40GHz), therefore no data appear in the report.



Frequency (MHz)	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna
5610	7181.4	36.0	14.9	50.9	68.2(Note 6)	-17.3	7181.4	H
	7885.0	33.8	13.0	46.8	68.2(Note 6)	-21.4	7885.0	H
	8437.8	33.9	15.3	49.2	74	-24.8	8437.8	H
	9023.1	34.9	15.7	50.6	74	-23.4	9023.1	H
	7247.3	36.1	12.8	48.9	68.2(Note 6)	-19.3	7247.3	V
	7807.4	34.0	15.0	49.0	68.2(Note 6)	-19.2	7807.4	V
	8318.5	33.7	13.0	46.7	74	-27.3	8318.5	V
	9184.6	34.9	14.0	48.9	74	-25.1	9184.6	V

Note:

1. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.
6. Is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBuV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the PK limit for out of band spurious emissions of 68.2dBuV/m.
7. The data above is worst case.
8. The test trace is same as the ambient noise (the test frequency range 18GHz~40GHz), therefore no data appear in the report.



Frequency (MHz)	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna
5690	7225.5	37.2	14.1	51.3	68.2(Note 6)	-16.9	Peak	H
	7800.1	33.7	14.8	48.5	68.2(Note 6)	-19.7	Peak	H
	8328.1	33.6	15.7	49.3	74	-24.7	Peak	H
	9025.1	35.1	14.0	49.1	74	-24.9	Peak	H
	7204.7	35.2	15.1	50.3	68.2(Note 6)	-17.9	Peak	V
	7799.3	34.5	13.7	48.2	68.2(Note 6)	-20.0	Peak	V
	8242.2	33.8	13.8	47.6	74	-26.4	Peak	V
	9136.2	34.7	14.3	49.0	74	-25.0	Peak	V

Note:

1. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.
6. Is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBuV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the PK limit for out of band spurious emissions of 68.2dBuV/m.
7. The data above is worst case.
8. The test trace is same as the ambient noise (the test frequency range 18GHz~40GHz), therefore no data appear in the report.



Frequency (MHz)	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna
5775	7203.2	36.0	11.7	47.7	68.2(Note 6)	-20.5	Peak	H
	7883.5	33.4	15.0	48.4	68.2(Note 6)	-19.8	Peak	H
	9024.2	35.0	14.3	49.3	74	-24.7	Peak	H
	9423.0	36.3	17.4	53.7	74	-20.3	Peak	H
	7144.0	34.9	14.6	49.5	68.2(Note 6)	-18.7	Peak	V
	7869.3	33.3	16.4	49.7	68.2(Note 6)	-18.5	Peak	V
	8283.0	33.3	16.1	49.4	74	-24.6	Peak	V
	9434.0	34.3	15.6	49.9	74	-24.1	Peak	V

Note:

1. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.
6. Is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBuV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the PK limit for out of band spurious emissions of 68.2dBuV/m.
7. The data above is worst case.
8. The test trace is same as the ambient noise (the test frequency range 18GHz~40GHz), therefore no data appear in the report.



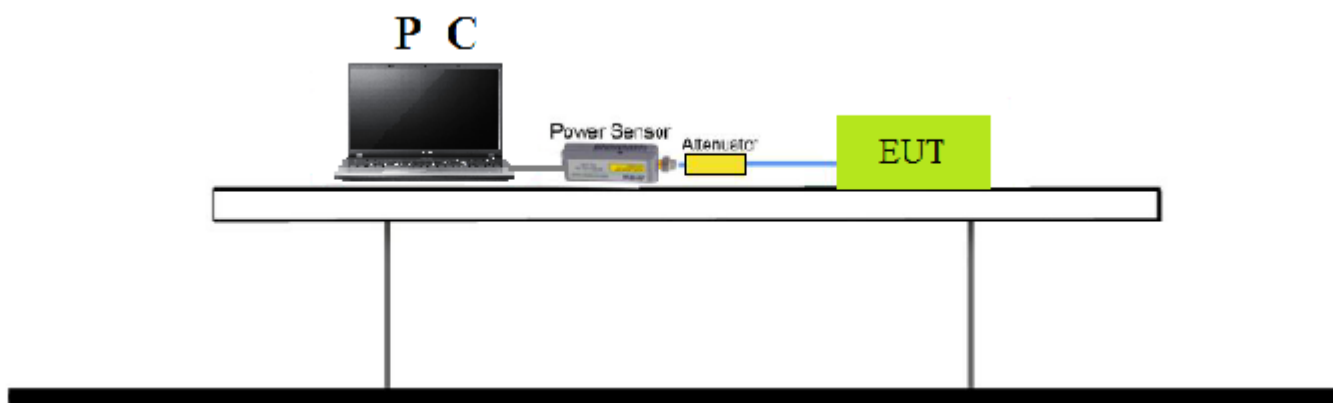
4. Power Output

4.1 Test Equipment

Instrument	Manufacturer	Type No.	Serial No.	Calibration Date	Valid Date.
PC	Lenovo	E40-70	MP078UQV	N/A	N/A
POWER SENSOR	Agilent	U2021XA	MY53260020	2016.03.27	2017.03.26
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-003	2016.03.31	2017.03.30

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

4.2 Test Setup





4.3 Limit

For FCC 15.407 Power Limit:

- For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi..
- For the band 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10\log B$, where B is the 26 dB emission bandwidth in megahertz. If transmitting antenna of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
- For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm).

**For RSS-247 Power Limit:**

Frequency Band 5150-5250 MHz: The maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

Frequency Band 5250-5350 MHz: The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

Frequency Bands 5470-5600 MHz and 5650-5725 MHz: The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

Frequency Band 5725-5850 MHz: The maximum conducted output power shall not exceed 1 W. The power spectral density shall not exceed 30 dBm in any 500 kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed point-to-point operations exclude the use of point-to-multipoint³ systems, omnidirectional applications and multiple collocated transmitters transmitting the same information.

4.4 Test Procedure

The EUT was tested according to KDB 789033 D02v01r02 Section E.3.b) for compliance to FCC 47CFR 15.407 requirements.

Use the wideband power meter to test RMS power and record the result.

Refer to RSS-247 Clause 6.



4.5 Test Result

Power output test was verified over all data rates of each mode shown as below, and then choose the maximum power output (yellow marker) for final test of each channel.

MCS Index for 802.11n	Spatial Streams	Data Rate (Mbps)				
		802.11a	20MHz Bandwidth		40MHz Bandwidth	
			800ns GI	400ns GI	800ns GI	400ns GI
0	1	6	6.5	7.2	13.5	15.0
1	1	9	13.0	14.4	27.0	30.0
2	1	12	19.5	21.7	40.5	45.0
3	1	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



Spatial Streams	MCS Index	Modulation type	Coding rate	Data Rate(Mb/s)					
				20MHz		40MHz		80MHz	
				Guard Interval		Guard Interval		Guard Interval	
				800ns	400ns	800ns	400ns	800ns	400ns
1	0	BPSK	1/2	6.5	7.2	13.5	15	29.3	32.5
	1	QPSK	1/2	13	14.4	27	30	58.5	65
	2	QPSK	3/4	19.5	21.7	40.5	45	87.8	97.5
	3	16-QAM	1/2	26	28.9	54	60	117	130
	4	16-QAM	3/4	39	43.3	81	90	175.5	195
	5	64-QAM	2/3	52	57.8	108	120	234	260
	6	64-QAM	3/4	58.5	65	121.5	135	263.3	292.5
	7	64-QAM	5/6	65	72.2	135	150	292.5	325
	8	256-QAM	3/4	78	86.7	162	180	351	390
	9	256-QAM	5/6	N/A	N/A	180	200	390	433.3



FOR AVERAGE POWER

Test Item	Maximum Output Power
Test Mode	Transmit by 802.11a
Test Date	2016-07-25

Channel No.	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Required Limit (dBm) FCC/IC	Result
		Chain 0	Chain 1				
36	5180	13.27	13.20	42.12	16.24	24/20.18	Pass
38	5200	13.05	13.03	40.30	16.05	24/20.18	Pass
44	5220	13.24	13.12	41.60	16.19	24/20.18	Pass
48	5240	13.12	13.03	40.58	16.08	24/20.18	Pass
52	5260	14.65	14.79	59.30	17.73	24/27.18	Pass
56	5280	13.29	13.19	42.17	16.25	24/27.18	Pass
60	5300	13.22	13.23	42.01	16.23	24/27.18	Pass
64	5320	13.13	13.28	41.84	16.22	24/27.18	Pass
100	5500	13.23	13.27	42.30	16.26	24/27.18	Pass
104	5520	14.75	14.75	59.75	17.76	24/27.18	Pass
108	5540	14.68	14.53	57.70	17.61	24/27.18	Pass
112	5560	14.72	14.73	59.39	17.74	24/27.18	Pass
116	5580	14.69	14.55	57.96	17.63	24/27.18	Pass
120	5600	14.77	14.62	58.96	17.71	24/27.18	Pass
124	5620	14.54	14.71	58.07	17.64	24/27.18	Pass
128	5640	14.52	14.52	56.62	17.53	24/27.18	Pass
132	5660	14.53	14.52	56.65	17.53	24/27.18	Pass
136	5680	14.78	14.54	58.51	17.67	24/27.18	Pass
140	5700	13.14	13.06	40.83	16.11	24/27.18	Pass
144	5720	14.71	14.61	58.45	17.67	24/27.18	Pass
149	5745	10.21	10.22	21.01	13.22	30	Pass
153	5765	14.56	14.61	57.45	17.59	30	Pass
157	5785	14.65	14.72	58.78	17.69	30	Pass
161	5805	14.60	14.59	57.63	17.61	30	Pass
165	5825	13.52	13.53	45.04	16.54	30	Pass



Test Item	Maximum Output Power
Test Mode	Transmit by 802.11ac(20MHz)
Test Date	2016-07-25

Channel No.	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Required Limit (dBm) FCC/IC	Result
		Chain 0	Chain 1				
36	5180	13.00	13.07	40.24	16.05	24/20.18	Pass
38	5200	13.00	13.12	40.48	16.07	24/20.18	Pass
44	5220	13.30	13.15	42.05	16.24	24/20.18	Pass
48	5240	13.15	13.04	40.78	16.10	24/20.18	Pass
52	5260	14.78	14.51	58.27	17.65	24/27.18	Pass
56	5280	13.09	13.07	40.68	16.09	24/27.18	Pass
60	5300	13.10	13.04	40.54	16.08	24/27.18	Pass
64	5320	13.04	13.26	41.32	16.16	24/27.18	Pass
100	5500	13.22	13.08	41.30	16.16	24/27.18	Pass
104	5520	14.58	14.60	57.55	17.60	24/27.18	Pass
108	5540	14.58	14.66	57.94	17.63	24/27.18	Pass
112	5560	14.66	14.73	58.95	17.71	24/27.18	Pass
116	5580	14.77	14.77	59.99	17.78	24/27.18	Pass
120	5600	14.78	14.54	58.51	17.67	24/27.18	Pass
124	5620	14.70	14.65	58.65	17.68	24/27.18	Pass
128	5640	14.64	14.79	59.22	17.72	24/27.18	Pass
132	5660	14.79	14.62	59.12	17.72	24/27.18	Pass
136	5680	14.63	14.50	57.25	17.58	24/27.18	Pass
140	5700	13.24	13.07	41.33	16.16	24/27.18	Pass
144	5720	14.55	14.55	56.97	17.56	24/27.18	Pass
149	5745	8.14	8.20	13.13	11.18	30	Pass
153	5765	14.69	14.63	58.48	17.67	30	Pass
157	5785	14.70	14.62	58.43	17.67	30	Pass
161	5805	14.76	14.79	60.06	17.79	30	Pass
165	5825	12.52	12.54	35.78	15.54	30	Pass



Test Item	Maximum Output Power
Test Mode	Transmit by 802.11ac(40MHz)
Test Date	2016-07-25

Channel No.	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Required Limit (dBm) FCC/IC	Result
		Chain 0	Chain 1				
38	5190	9.58	9.56	18.10	12.58	24/20.18	Pass
46	5230	12.19	12.04	32.55	15.13	24/20.18	Pass
54	5270	12.21	12.16	33.09	15.20	24/27.18	Pass
62	5310	12.17	12.05	32.51	15.12	24/27.18	Pass
102	5510	9.58	9.53	18.06	12.57	24/27.18	Pass
110	5550	14.14	14.29	52.83	17.23	24/27.18	Pass
118	5590	14.27	14.10	52.42	17.19	24/27.18	Pass
126	5630	14.24	14.20	52.87	17.23	24/27.18	Pass
134	5670	12.64	12.75	37.20	15.71	24/27.18	Pass
142	5710	14.10	14.14	51.62	17.13	24/27.18	Pass
151	5755	7.00	7.24	10.32	10.14	30	Pass
159	5795	14.22	14.15	52.44	17.20	30	Pass



Test Item	Maximum Output Power
Test Mode	Transmit by 802.11ac(80MHz)
Test Date	2016-07-25

Channel No.	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Required Limit (dBm) FCC/IC	Result
		Chain 0	Chain 1				
42	5210	8.56	8.53	14.31	11.56	24/20.18	Pass
58	5290	10.00	10.09	20.22	13.06	24/27.18	Pass
106	5530	10.03	10.27	20.71	13.16	24/27.18	Pass
122	5610	13.54	13.60	45.50	16.58	24/27.18	Pass
138	5690	13.62	13.80	47.00	16.72	24/27.18	Pass
155	5775	6.64	6.73	9.32	9.69	30	Pass



5. Band Edges Measurement

5.1 Test Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 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
8.41425 - 8.41475	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	(²)

**For 15.407(b) requirement:**

For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.

Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m (dBuV/m)
5150 - 5350	-27	68.2
5470 - 5725	-27	68.2
5725 - 5850	-27 [Note(1)]	68.2
	-17 [Note(2)]	78.2
Note(1): Outside the frequency range 5715 - 5835MHz. Note(2): Within the frequency range from the band edge to 10MHz below or above the band edge, 5715 - 5725MHz and 5850 - 5860MHz.		

Note:

1. Refer to KDB 789033 D02v01r02 G)2)c), as specified in § 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a maximum emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in § 15.407(b)(4)). However, an out-of-band emission that complies with both the peak and average limits of § 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz maximum emission limit.
2. Refer to RSS-247 Clause 6.
3. All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [V/m]	Measured Distance [Meters]
0.009 – 0.490	2400/F (kHz)	300
0.490 – 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	200	3
216 - 960	200	3
Above 960	500	3



5.2 Test Setting

Peak Measurements above 1GHz

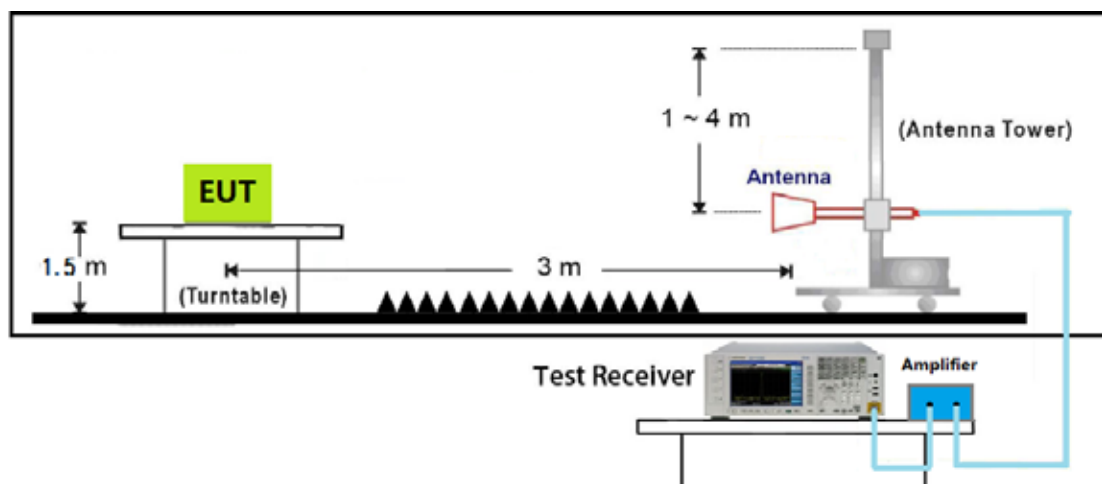
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz

- (i) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- (ii) Set sweep trigger to "free run."
- (iii) Set RBW = 1 MHz.
- (iv) Set VBW=1/T, where T is defined in section II.B.1.a).
- (v) Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This ensures that bin-to-bin spacing is $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)
- (vi) Sweep time = auto.
- (vii) Detector = peak.
- (viii) Video filtering shall be applied to a voltage-squared or power signal (rms), if possible. Otherwise, it shall be set to operate on a linear voltage signal (which may require use of linear display mode). Log mode must not be used.
 - The preferred voltage-squared (i.e., power or rms) mode is selected on some analyzers by setting the "Average-VBW Type" to power or rms.
 - If power averaging (rms) mode is not available, linear voltage mode is selected on some analyzers by setting the display mode to linear. Other analyzers have a setting for "Average-VBW Type" that can be set to "Voltage" regardless of the display mode.
- (ix) Trace mode = max hold.
- (x) Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.
- (xi) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the spectrum.
- (xii) If linear mode was used in step (viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging.



5.3 Test Setup Layout



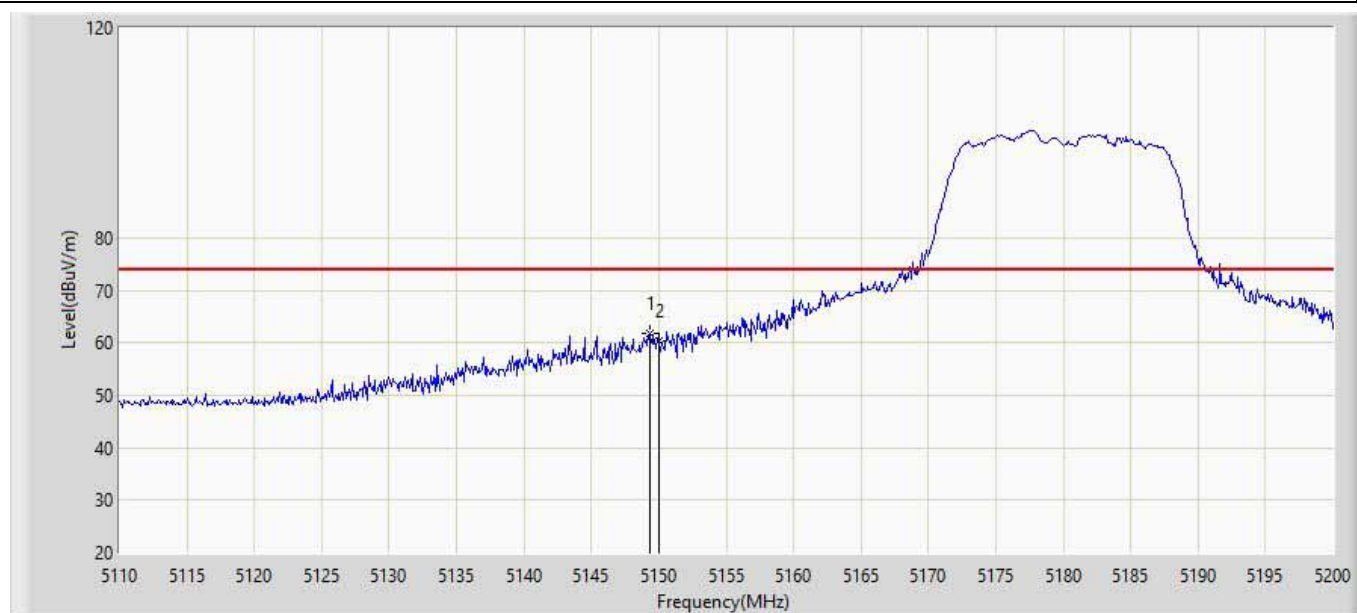
5.4 Measurement Equipment

Instrument	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date.
EMI Test Receiver	R&S	ESCI	100563	2016.03.10	2017.03.09
Spectrum Analyzer	R&S	FSP40	100047	2016.03.27	2017.03.26
H64 Preamplifier	HP	8447F	3113A05582	2016.03.10	2017.03.09
Preamplifier	Agilent	8449B	3008A02342	2016.03.10	2017.03.09
Preamplifier	COM-POWER	PA-840	711885	2016.03.24	2017.03.23
Ultra Broadband Antenna	R&S	HL562	100362	2016.05.03	2017.05.02
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	9120D-619	2016.05.03	2017.05.02
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	9170-347	2016.05.03	2017.05.02
Spectrum Analyzer	Agilent	N9010A	MY53400169	2015.11.03	2016.11.03
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-002	2016.03.10	2017.03.09



5.5 Measurement Data

Site: AC102 AC102	Time: 2016/07/18 - 11:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Horizontal
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11a at 5180MHz Ant 0+1	

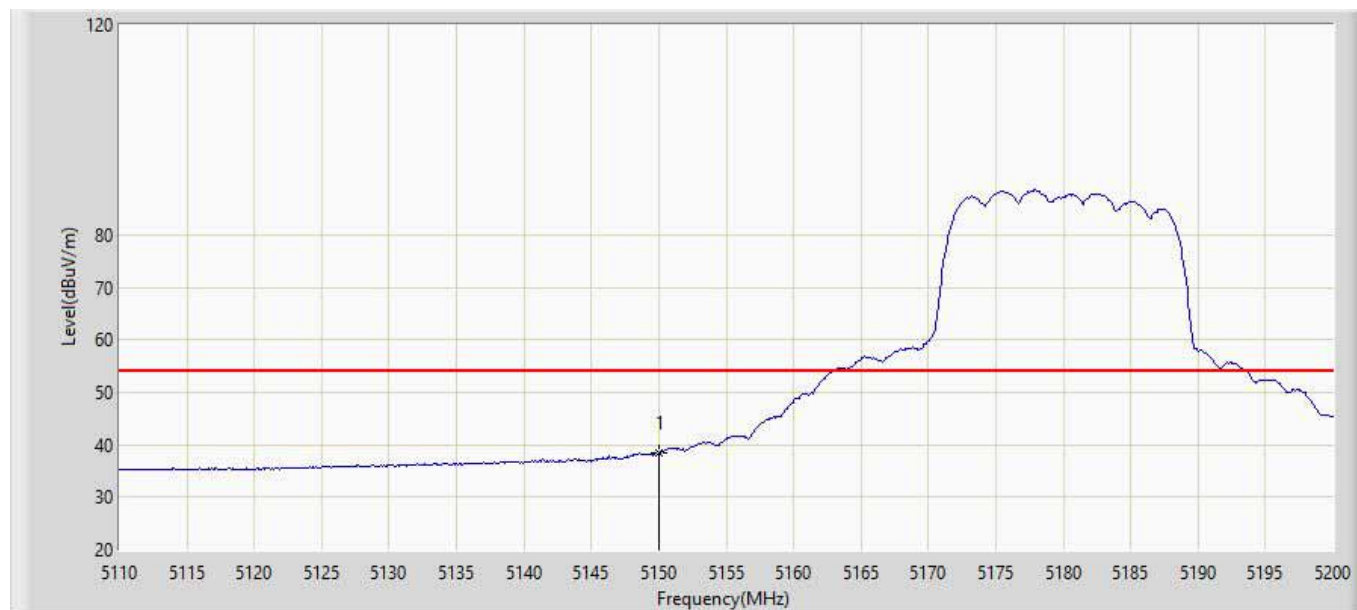


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5149.330	61.786	65.236	-12.214	74.000	-3.450	PK
2		5150.000	60.474	63.923	-13.526	74.000	-3.449	PK

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 15:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Horizontal
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11a at 5180MHz Ant 0+1	

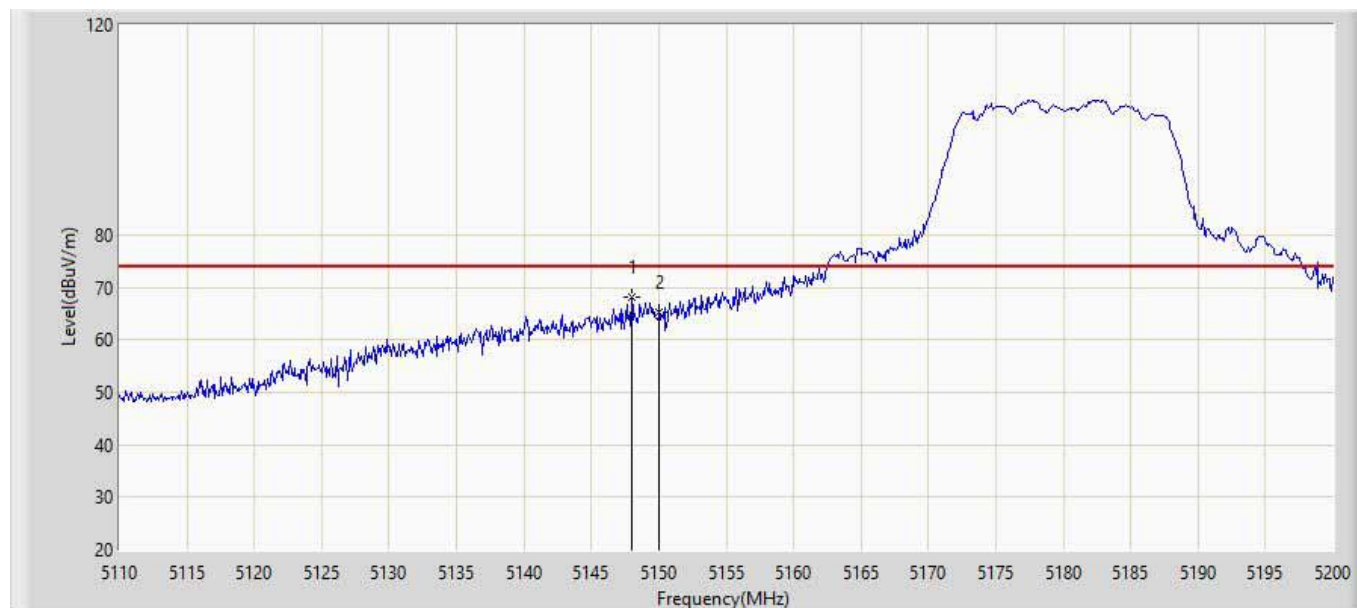


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5150.000	38.404	41.853	-15.596	54.000	-3.449	AV

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 15:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Vertical
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11a at 5180MHz Ant 0+1	

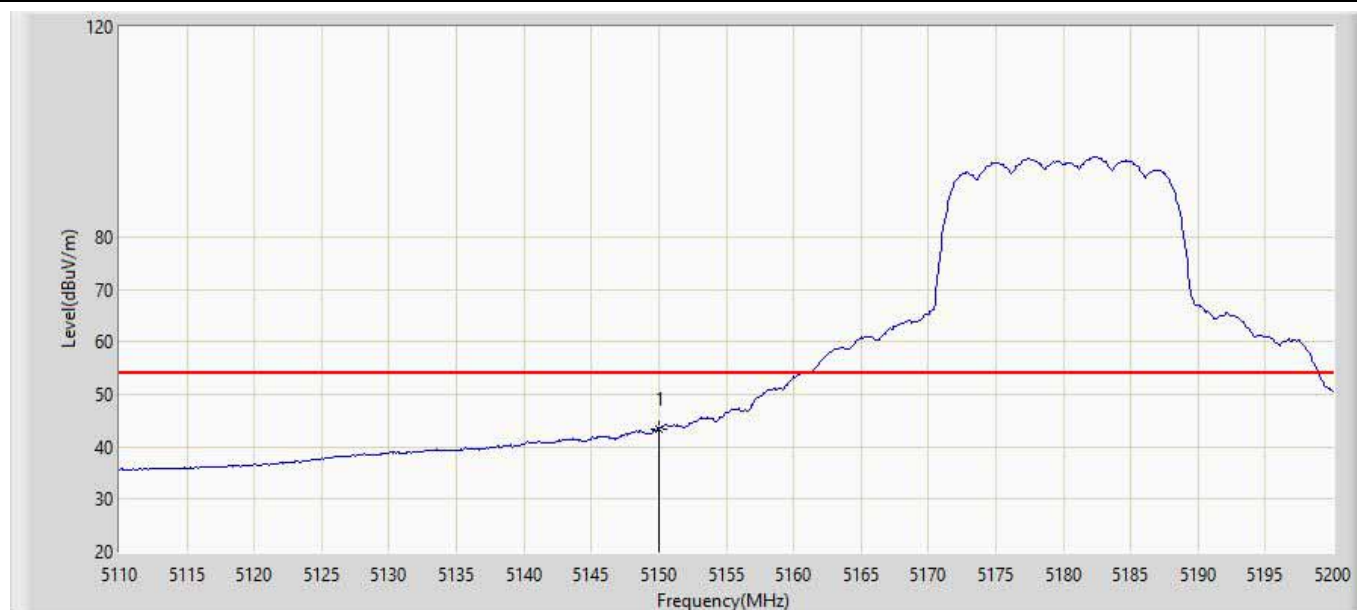


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5147.980	68.065	71.518	-5.935	74.000	-3.453	PK
2		5150.000	65.239	68.688	-8.761	74.000	-3.449	PK

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 15:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Vertical
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11a at 5180MHz Ant 0+1	

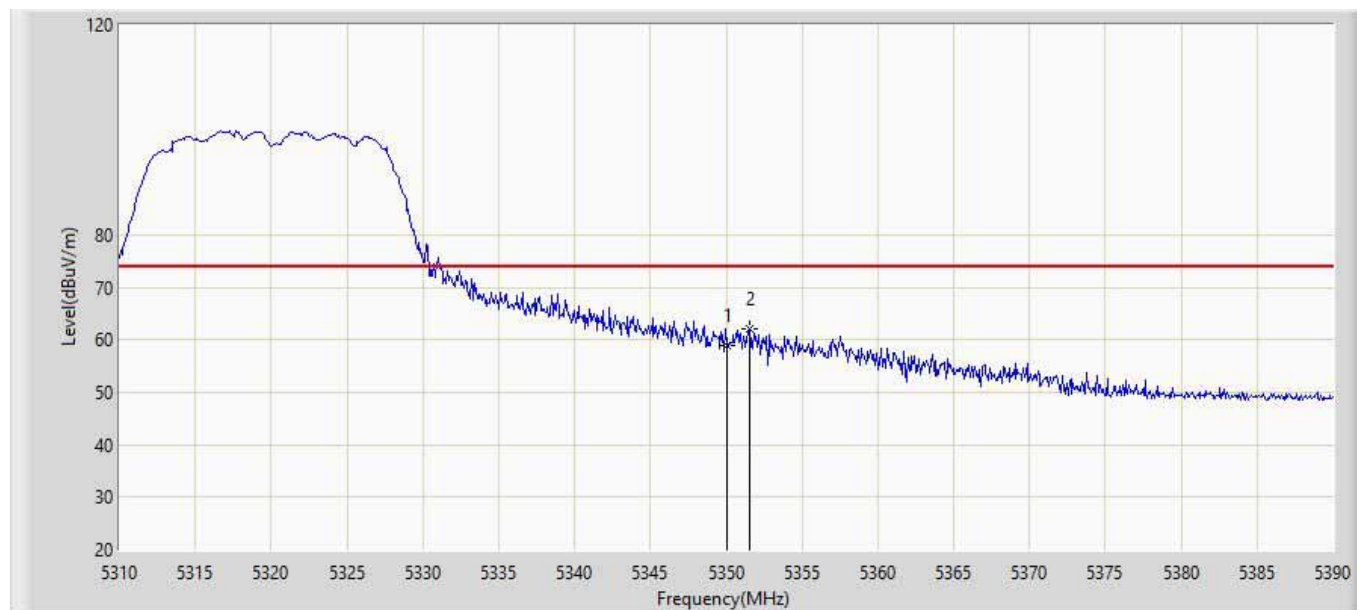


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5150.000	43.437	46.886	-10.563	54.000	-3.449	AV

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 15:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Horizontal
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11a at 5320MHz Ant 0+1	

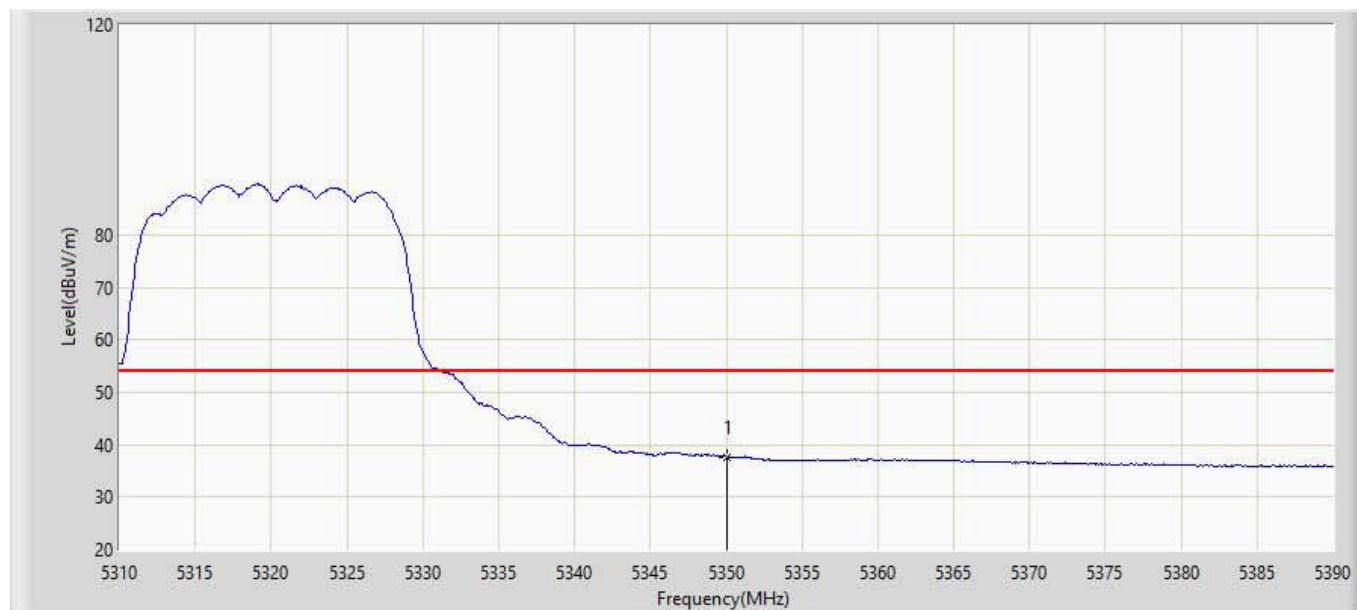


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5350.000	58.888	61.909	-15.112	74.000	-3.021	PK
2	*	5351.520	62.011	65.029	-11.989	74.000	-3.018	PK

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 15:04
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Horizontal
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11a at 5320MHz Ant 0+1	

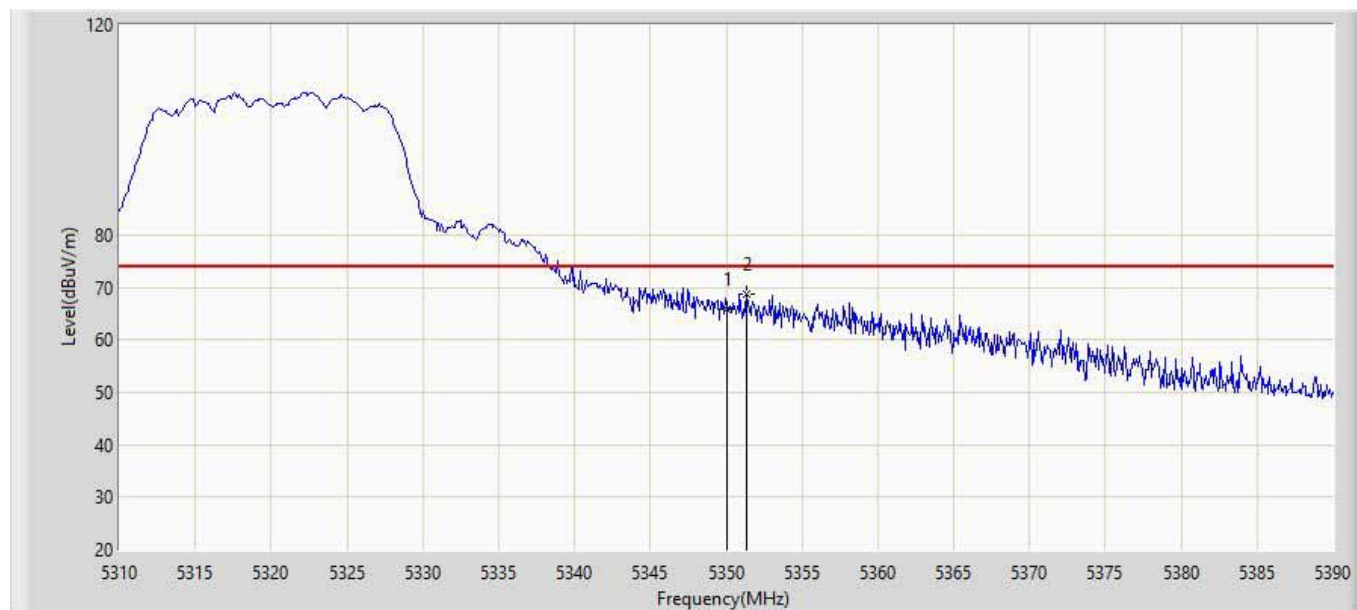


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5350.000	37.520	40.541	-16.480	54.000	-3.021	AV

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 15:04
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Vertical
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11a at 5320MHz Ant 0+1	

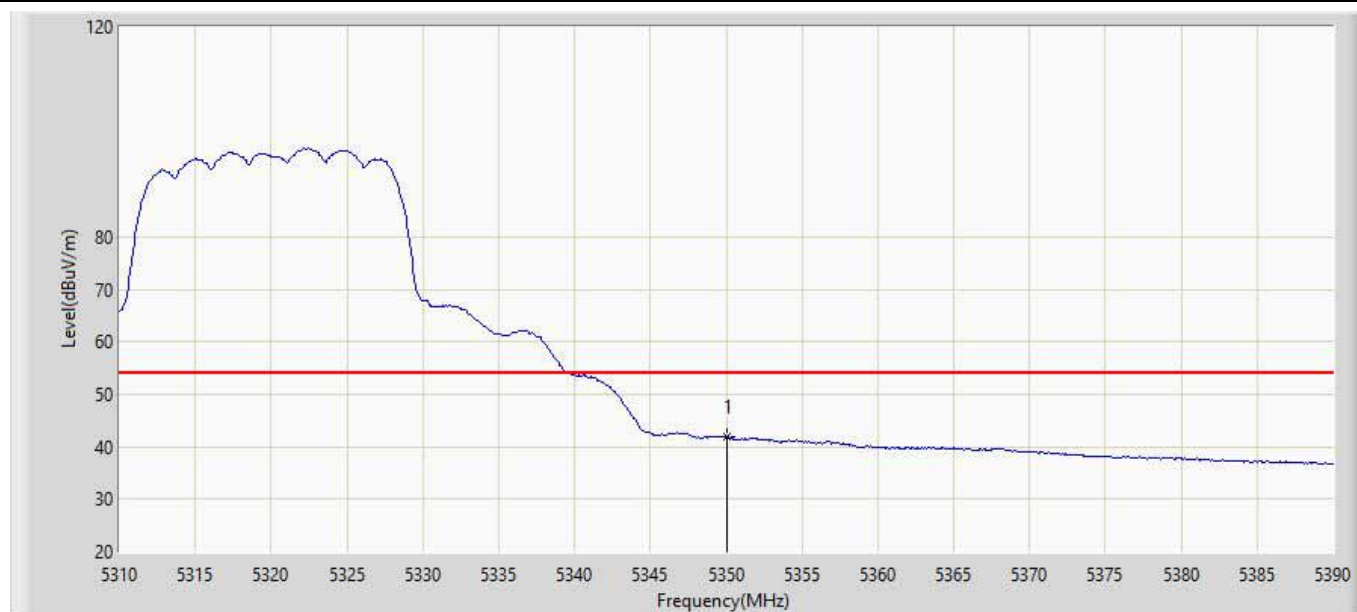


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5350.000	65.886	68.907	-8.114	74.000	-3.021	PK
2	*	5351.360	68.844	71.862	-5.156	74.000	-3.018	PK

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 15:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Vertical
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11a at 5320MHz Ant 0+1	

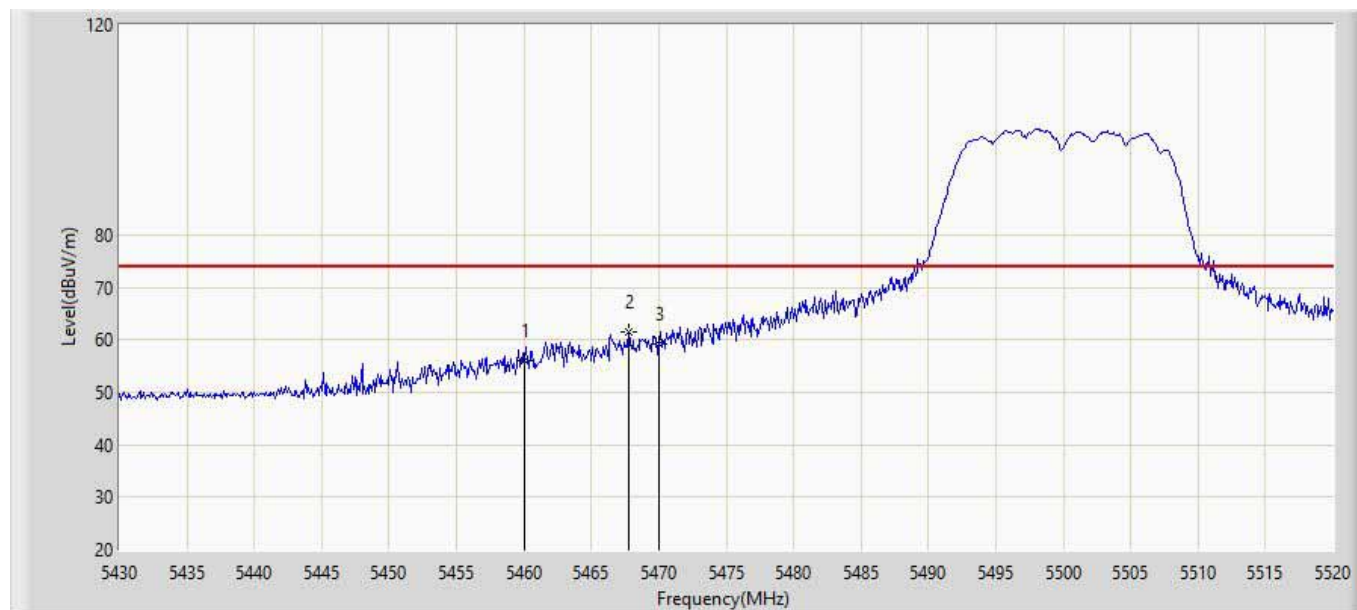


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5350.000	41.778	44.799	-12.222	54.000	-3.021	AV

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 15:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Horizontal
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11a at 5500MHz Ant 0+1	

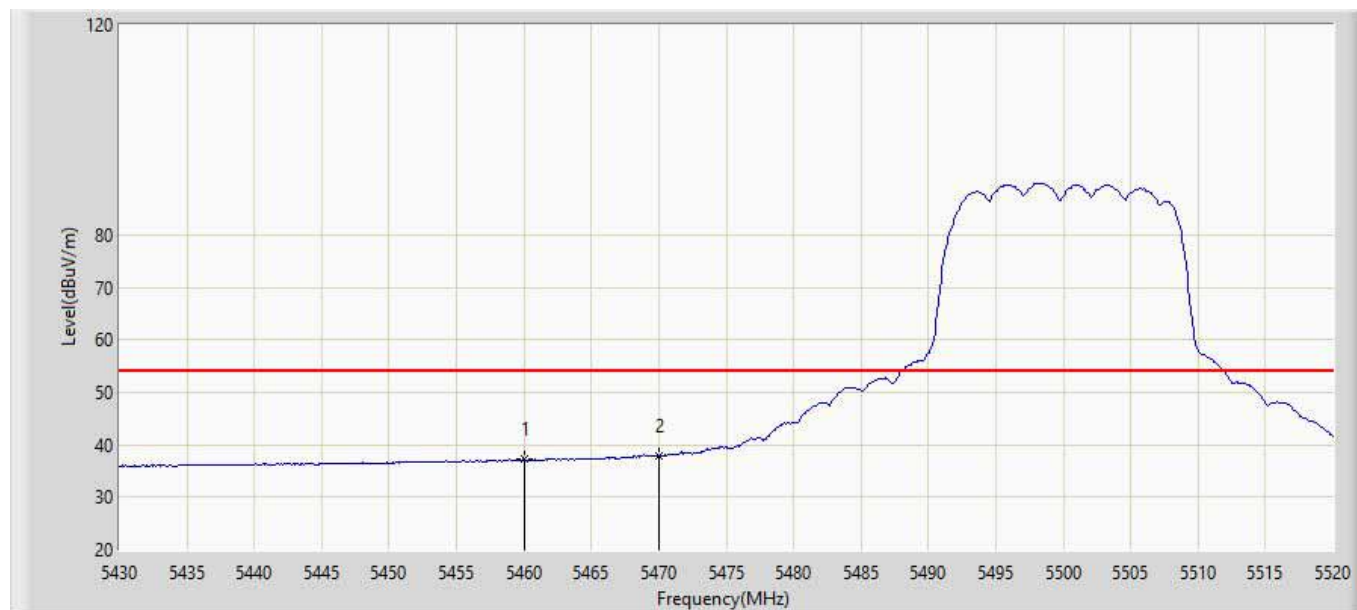


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	55.926	58.711	-18.074	74.000	-2.785	PK
2	*	5467.800	61.499	64.268	-12.501	74.000	-2.769	PK
3		5470.000	59.073	61.837	-14.927	74.000	-2.764	PK

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 15:13
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Horizontal
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11a at 5500MHz Ant 0+1	

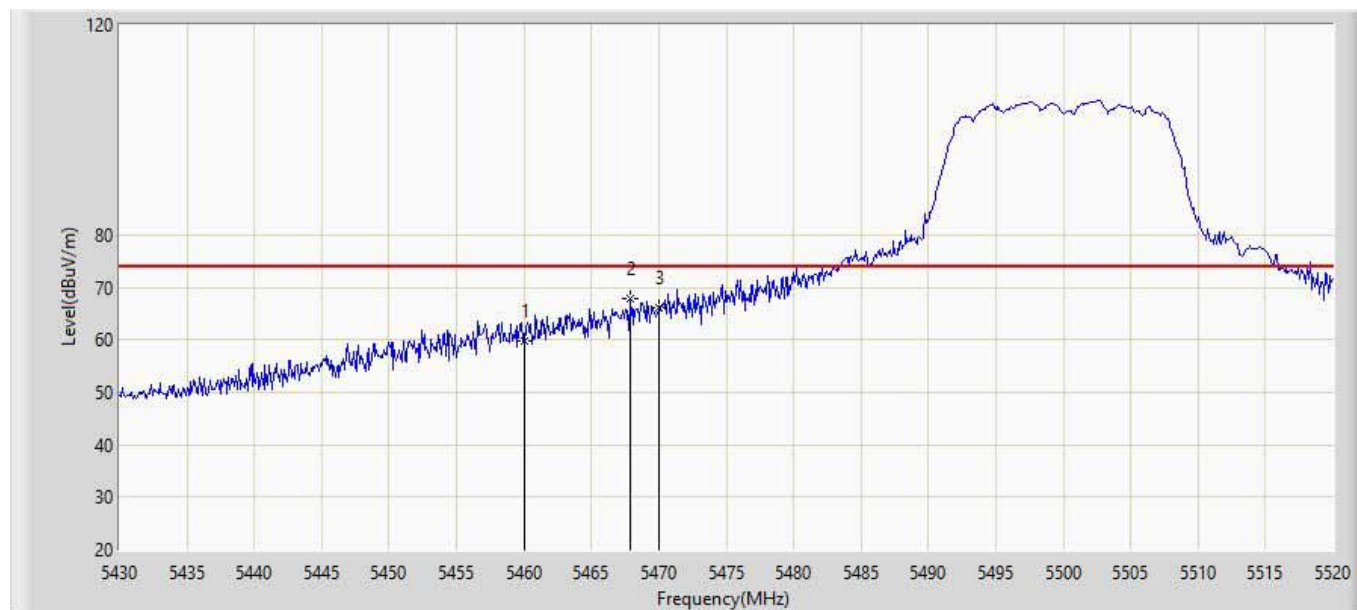


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	37.233	40.018	-16.767	54.000	-2.785	AV
2	*	5470.000	37.882	40.646	-16.118	54.000	-2.764	AV

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 15:14
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Vertical
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11a at 5500MHz Ant 0+1	

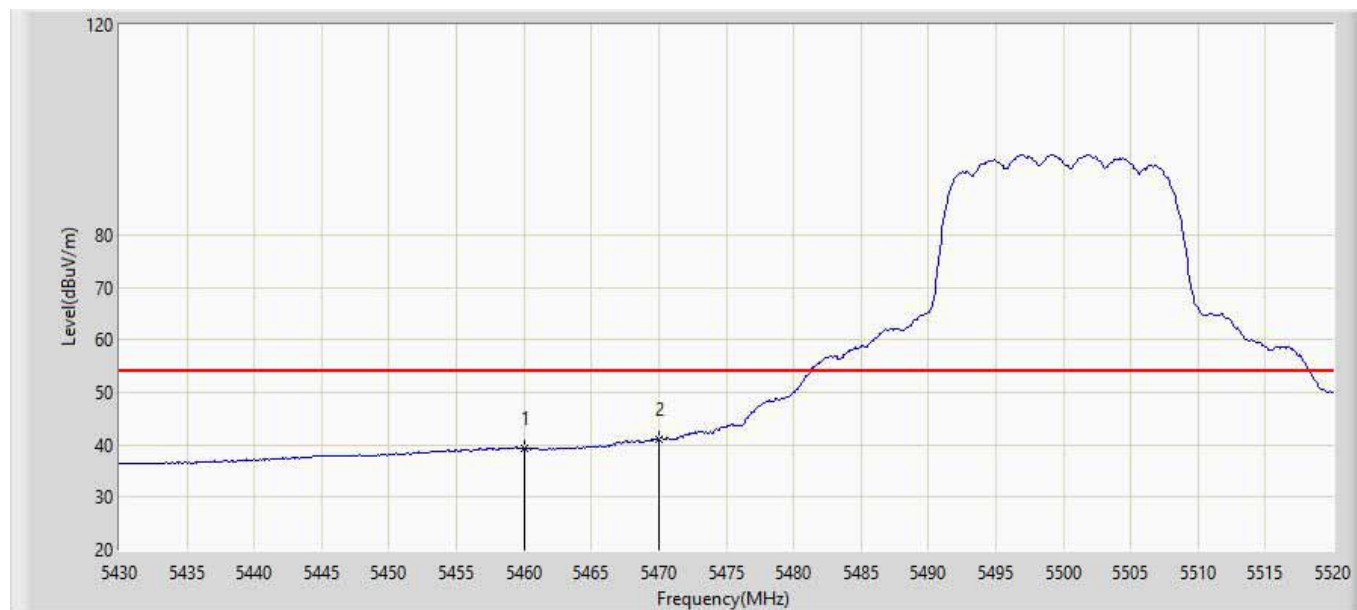


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	59.812	62.597	-14.188	74.000	-2.785	PK
2	*	5467.890	67.800	70.569	-6.200	74.000	-2.769	PK
3		5470.000	66.186	68.950	-7.814	74.000	-2.764	PK

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 15:17
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Vertical
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11a at 5500MHz Ant 0+1	

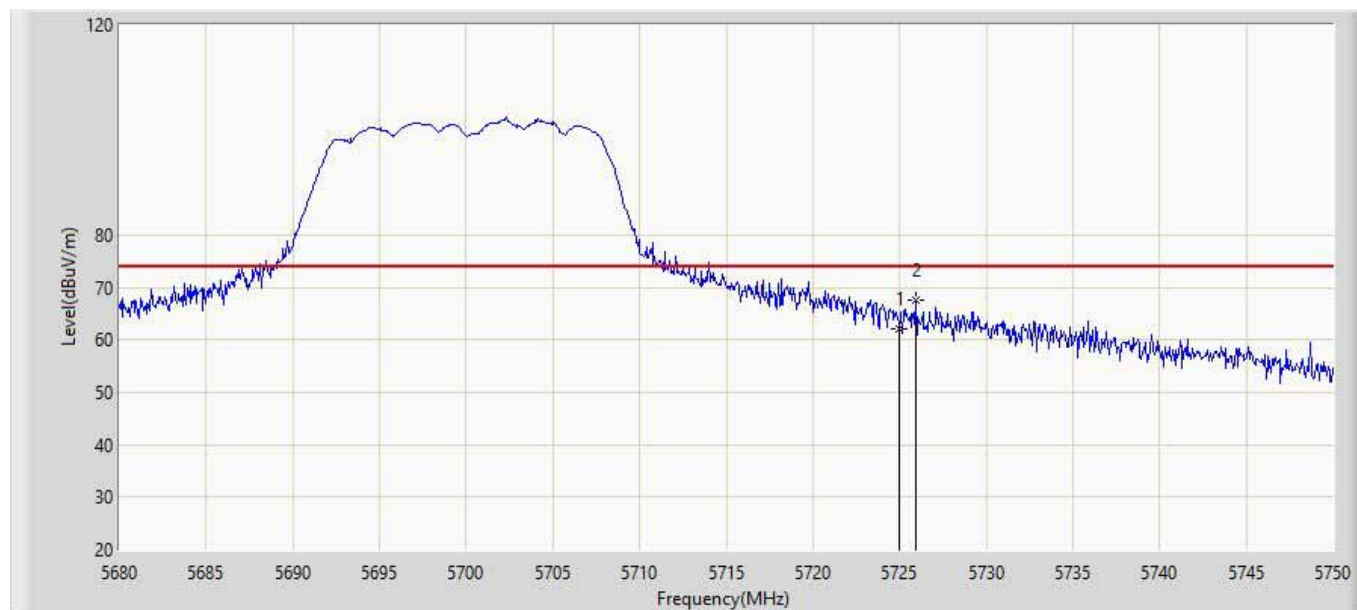


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	39.281	42.066	-14.719	54.000	-2.785	AV
2	*	5470.000	41.034	43.798	-12.966	54.000	-2.764	AV

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 15:18
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Horizontal
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11a at 5700MHz Ant 0+1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5725.000	62.181	64.688	-11.819	74.000	-2.507	PK
2	*	5725.920	67.659	70.165	-6.341	74.000	-2.506	PK

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 15:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Horizontal
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11a at 5700MHz Ant 0+1	

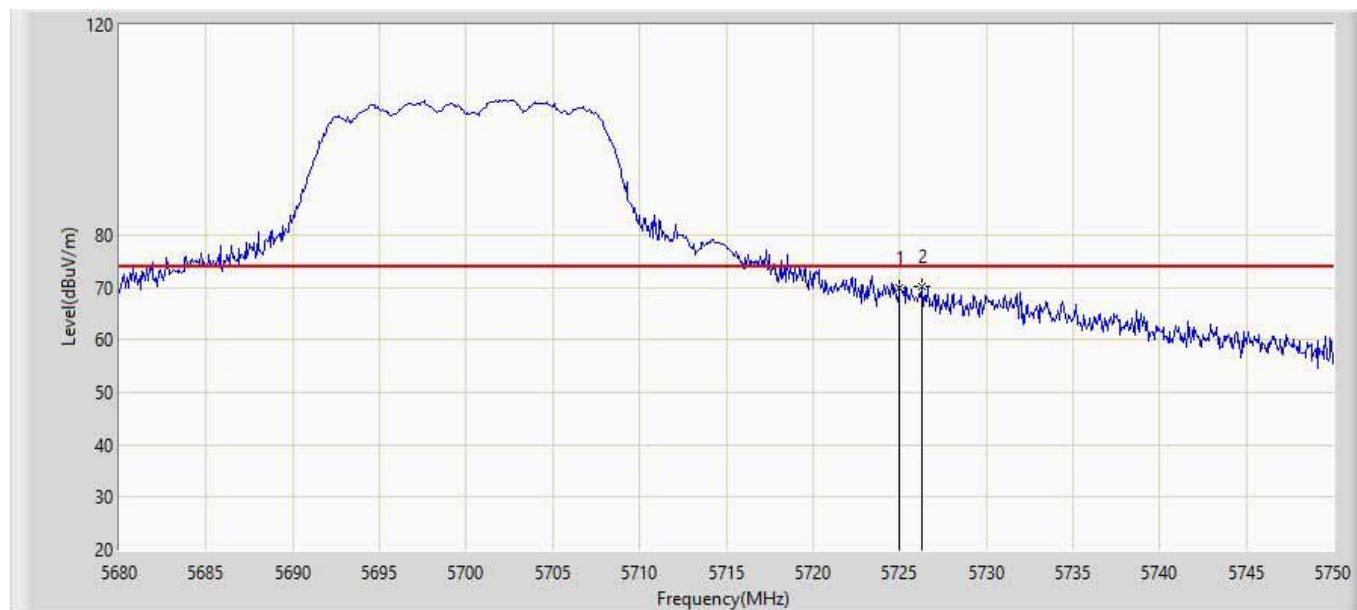


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5725.000	40.432	42.939	-13.568	54.000	-2.507	AV

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 15:22
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Vertical
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11a at 5700MHz Ant 0+1	

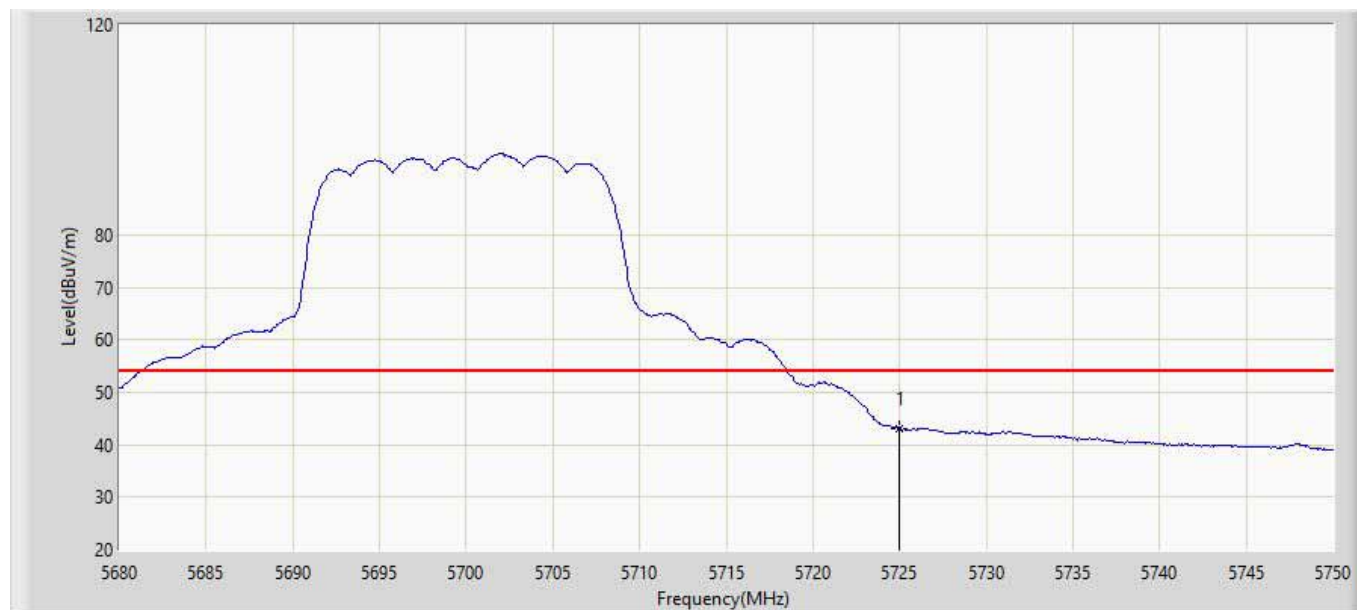


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5725.000	69.998	72.505	-4.002	74.000	-2.507	PK
2	*	5726.270	70.276	72.782	-3.724	74.000	-2.506	PK

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 15:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Vertical
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11a at 5700MHz Ant 0+1	

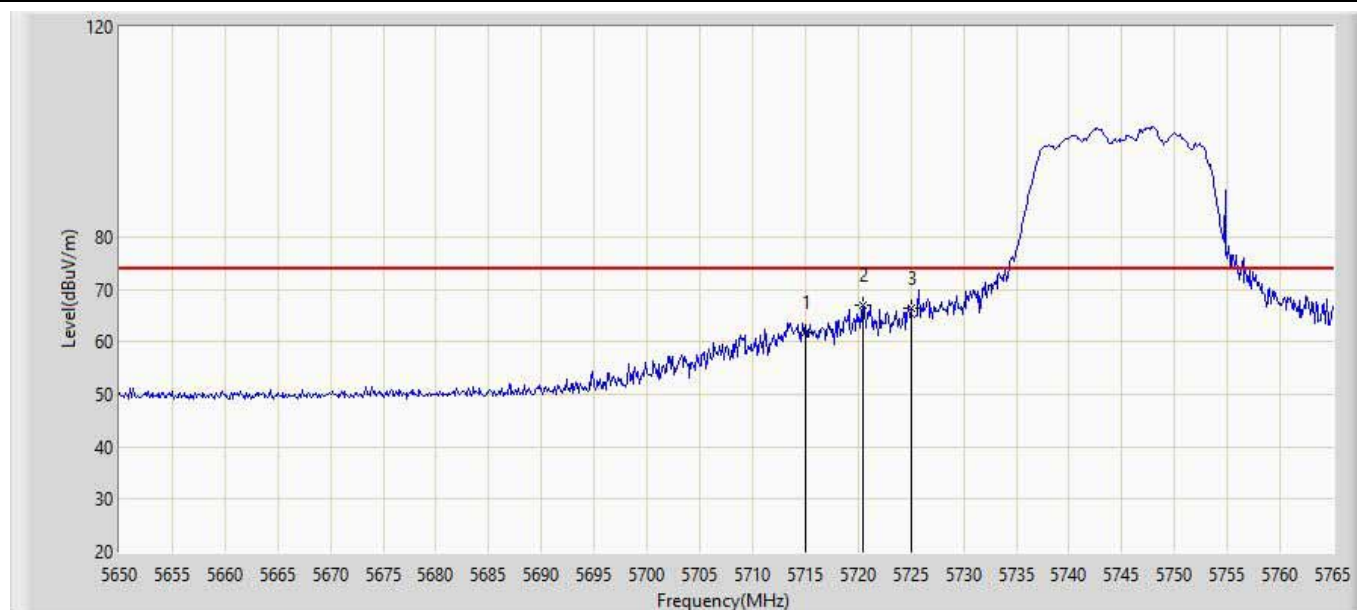


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5725.000	43.067	45.574	-10.933	54.000	-2.507	AV

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 15:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Horizontal
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11a at 5745MHz Ant 0+1	

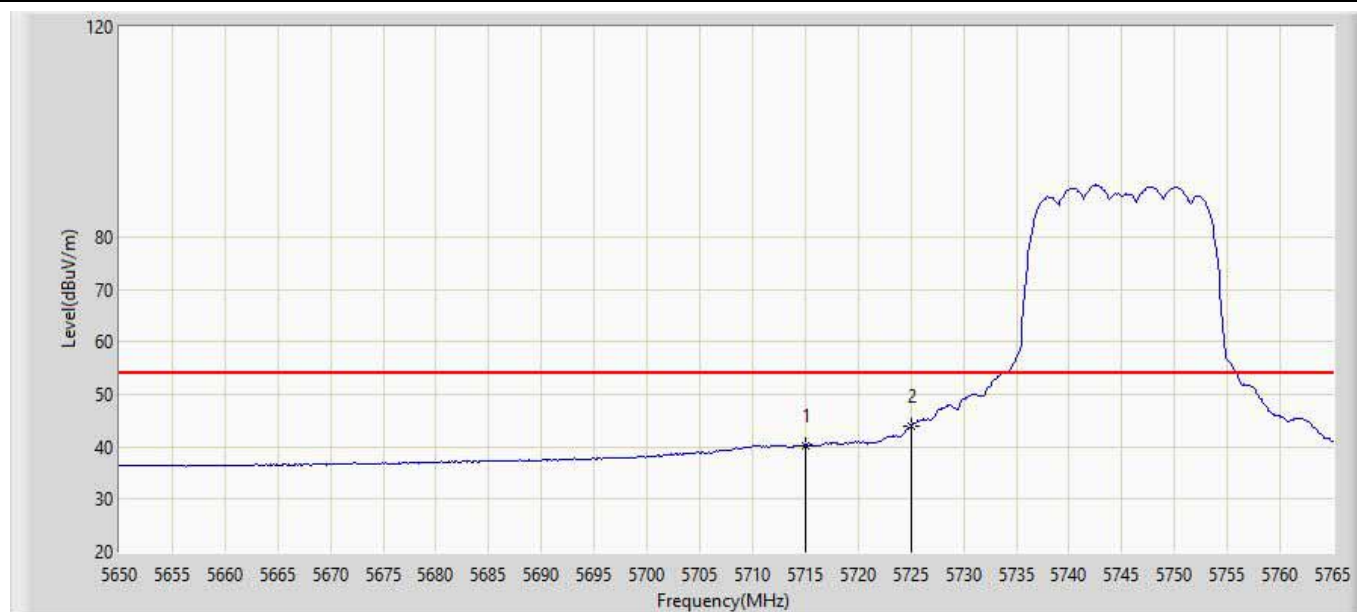


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5715.000	61.894	64.409	-12.106	74.000	-2.515	PK
2	*	5720.495	66.869	69.380	-7.131	74.000	-2.511	PK
3		5725.000	66.255	68.762	-7.745	74.000	-2.507	PK

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 15:31
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Horizontal
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11a at 5745MHz Ant 0+1	

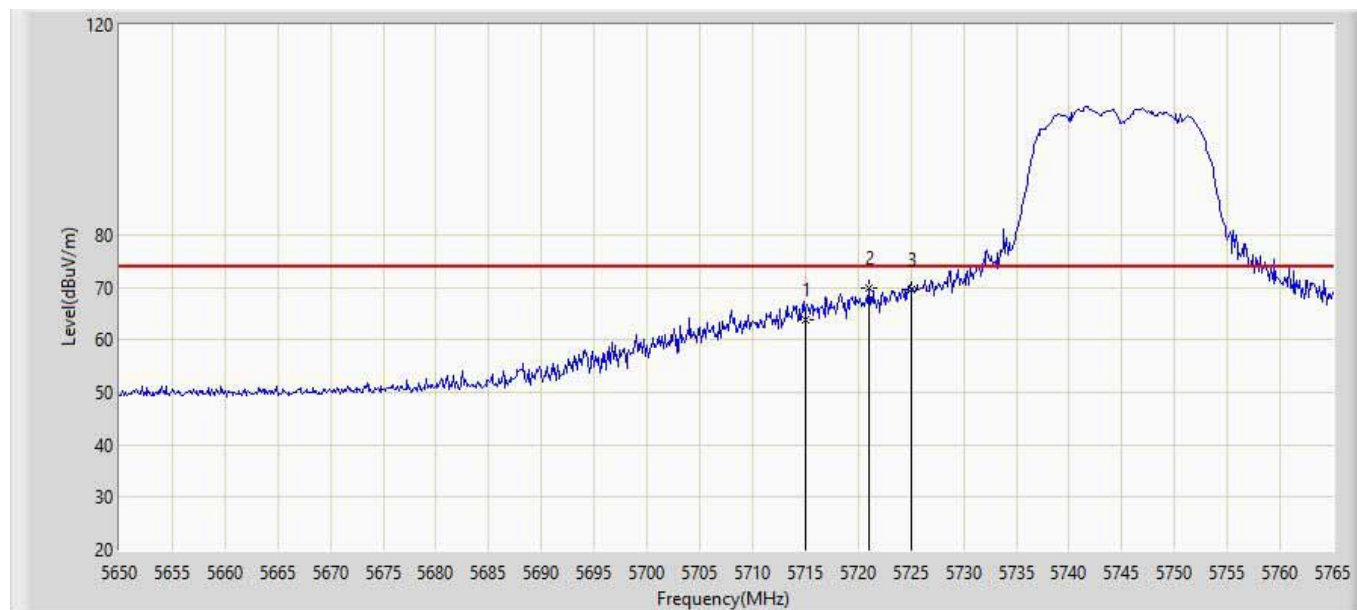


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5715.000	40.273	42.788	-13.727	54.000	-2.515	AV
2	*	5725.000	43.890	46.397	-10.110	54.000	-2.507	AV

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 15:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Vertical
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11a at 5745MHz Ant 0+1	

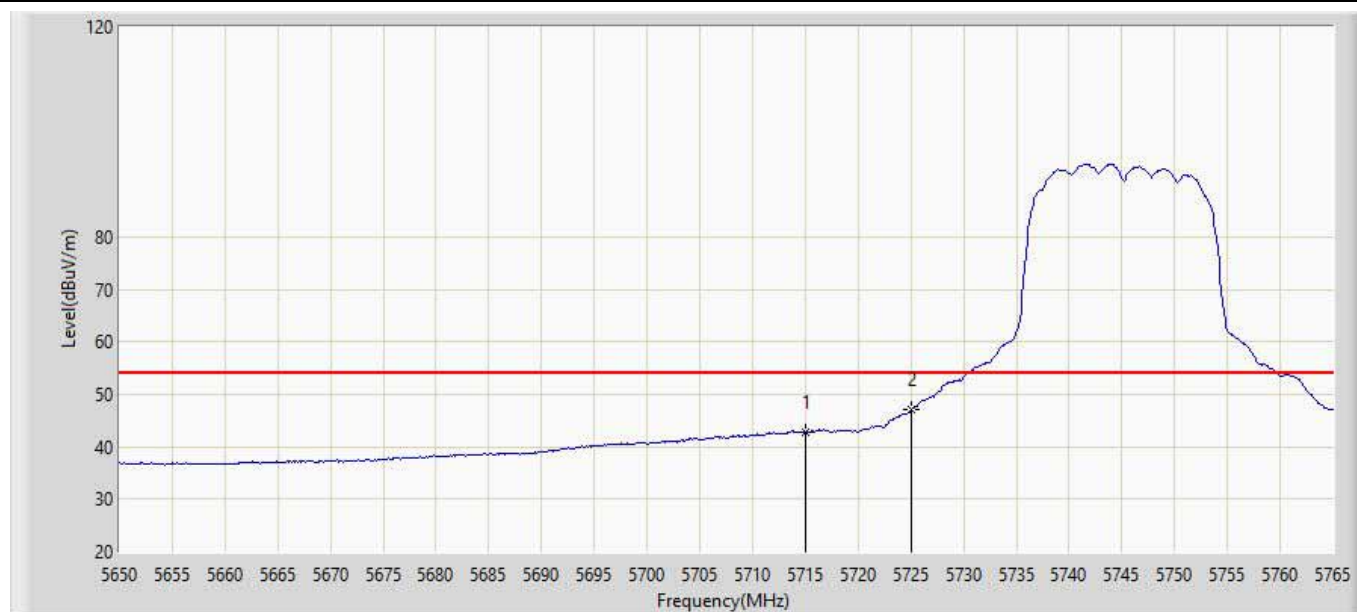


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5715.000	63.918	66.433	-10.082	74.000	-2.515	PK
2	*	5721.070	69.918	72.428	-4.082	74.000	-2.510	PK
3		5725.000	69.538	72.045	-4.462	74.000	-2.507	PK

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 15:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Vertical
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11a at 5745MHz Ant 0+1	

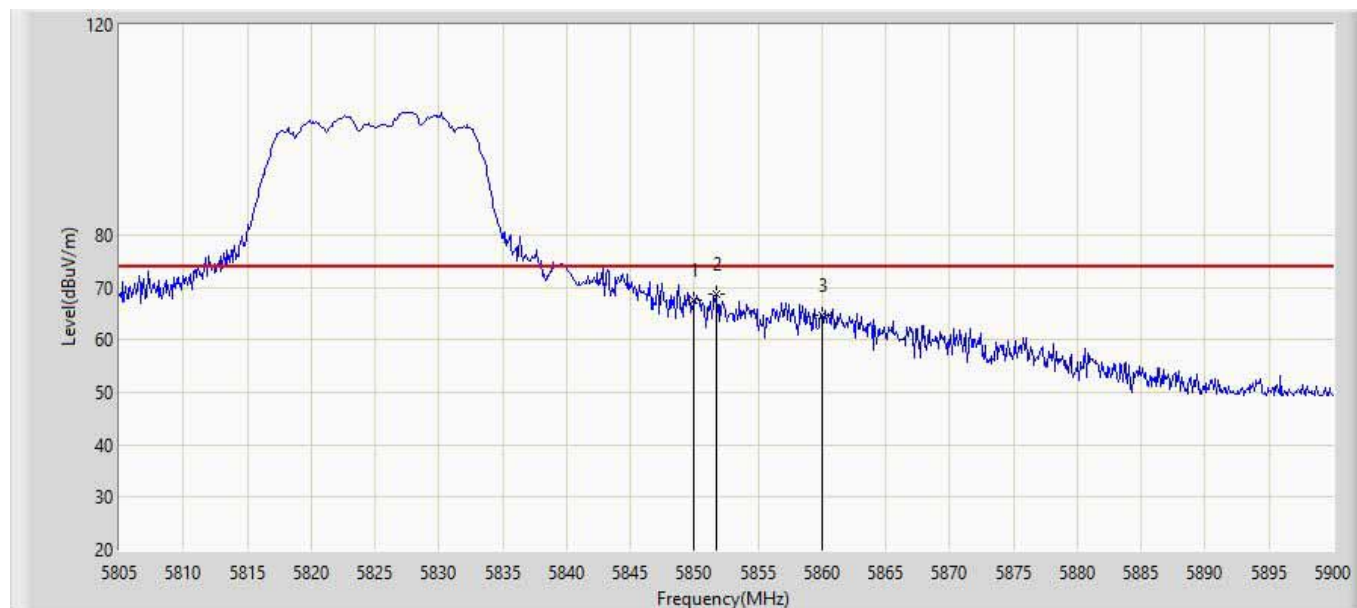


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5715.000	42.723	45.238	-11.277	54.000	-2.515	AV
2	*	5725.000	46.987	49.494	-7.013	54.000	-2.507	AV

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 15:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Horizontal
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11a at 5825MHz Ant 0+1	

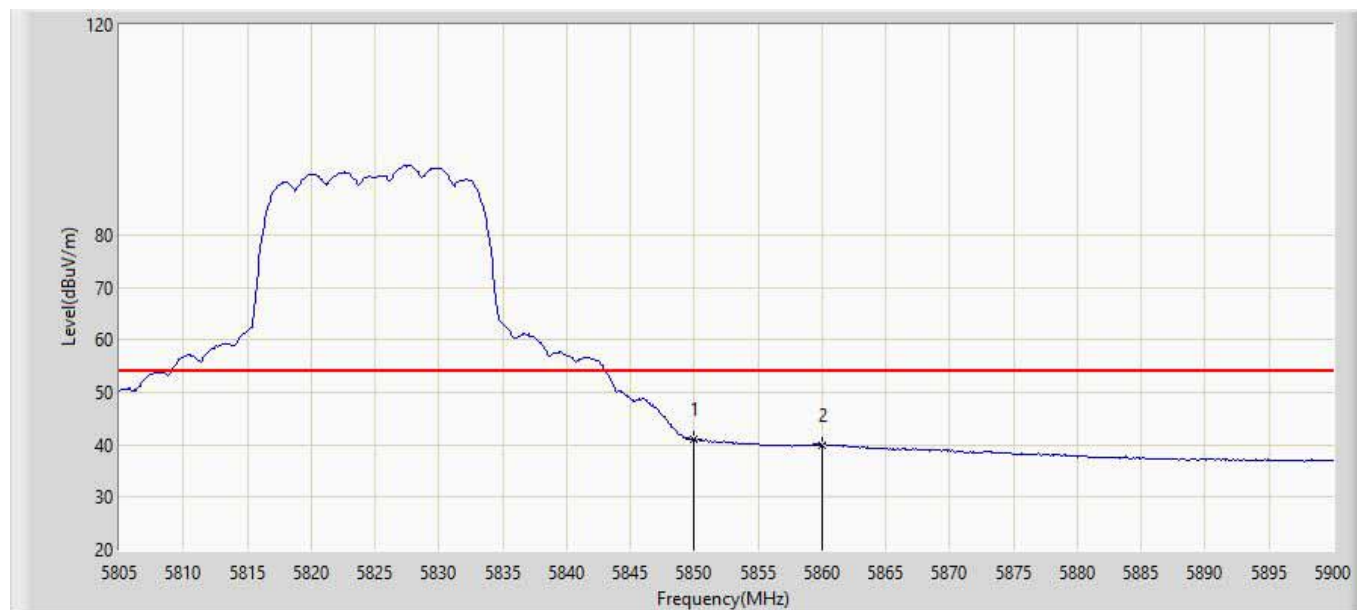


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5850.000	67.457	69.856	-6.543	74.000	-2.399	PK
2	*	5851.740	68.670	71.067	-5.330	74.000	-2.397	PK
3		5860.000	64.676	67.067	-9.324	74.000	-2.391	PK

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 15:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Horizontal
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11a at 5825MHz Ant 0+1	

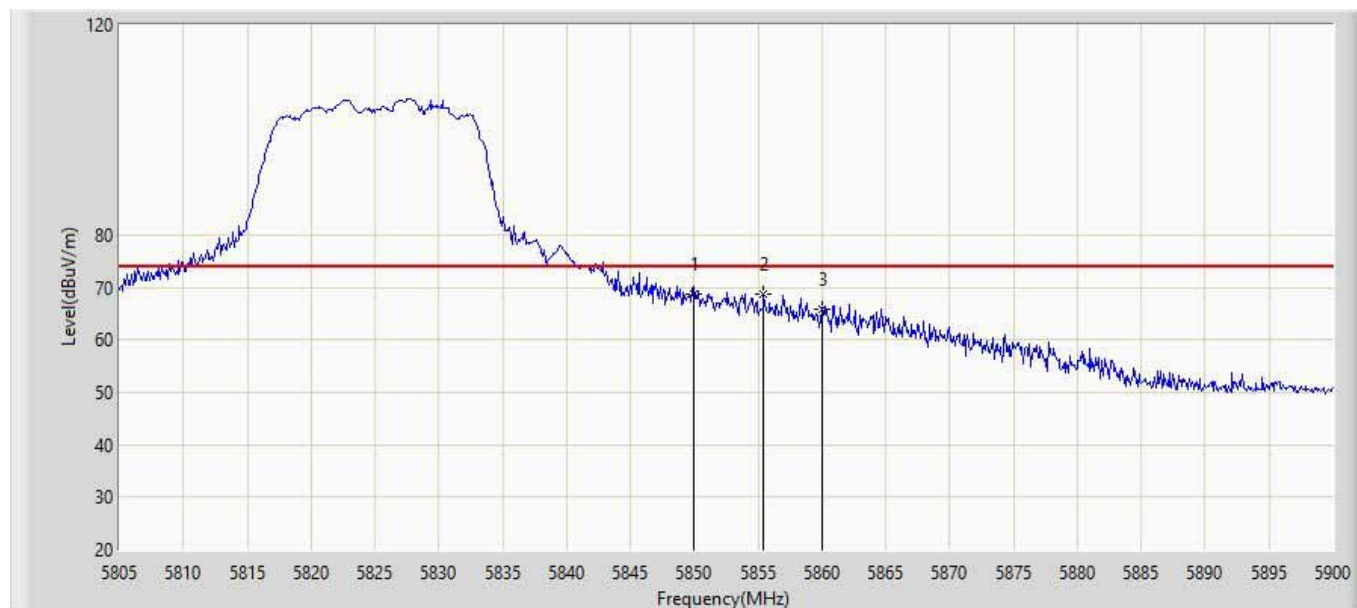


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5850.000	41.062	43.461	-12.938	54.000	-2.399	AV
2		5860.000	39.992	42.383	-14.008	54.000	-2.391	AV

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 15:42
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Vertical
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11a at 5825MHz Ant 0+1	

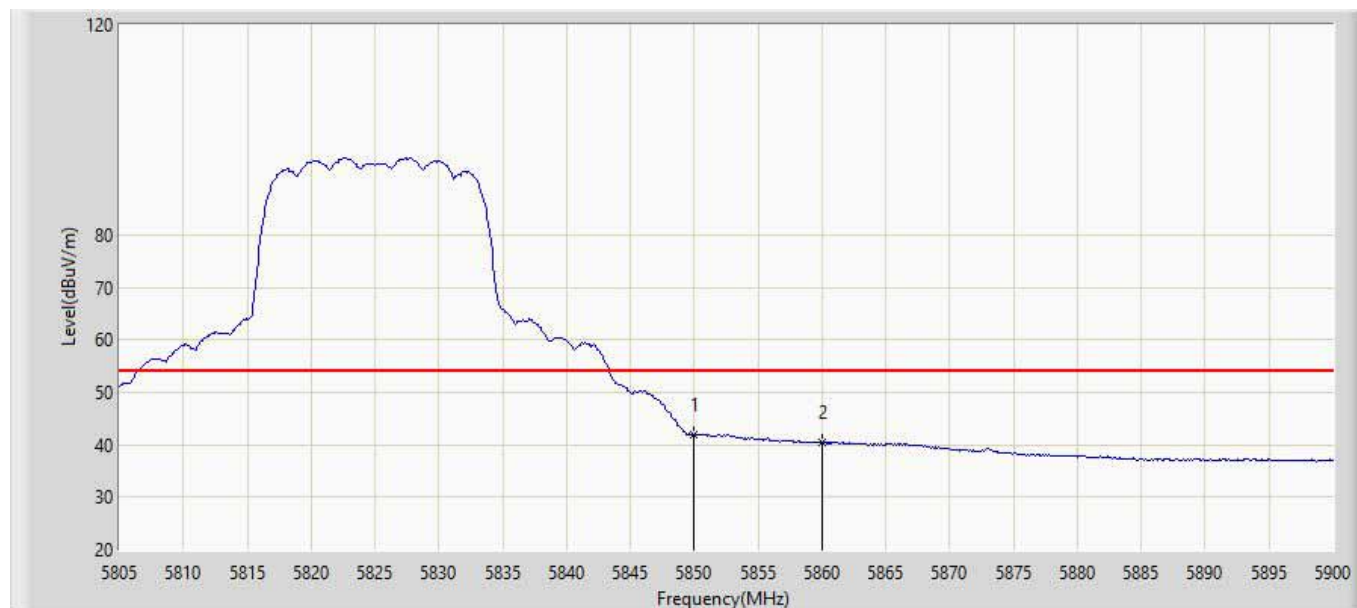


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5850.000	68.586	70.985	-5.414	74.000	-2.399	PK
2	*	5855.445	68.738	71.132	-5.262	74.000	-2.394	PK
3		5860.000	65.927	68.318	-8.073	74.000	-2.391	PK

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 15:50
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Vertical
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11a at 5825MHz Ant 0+1	

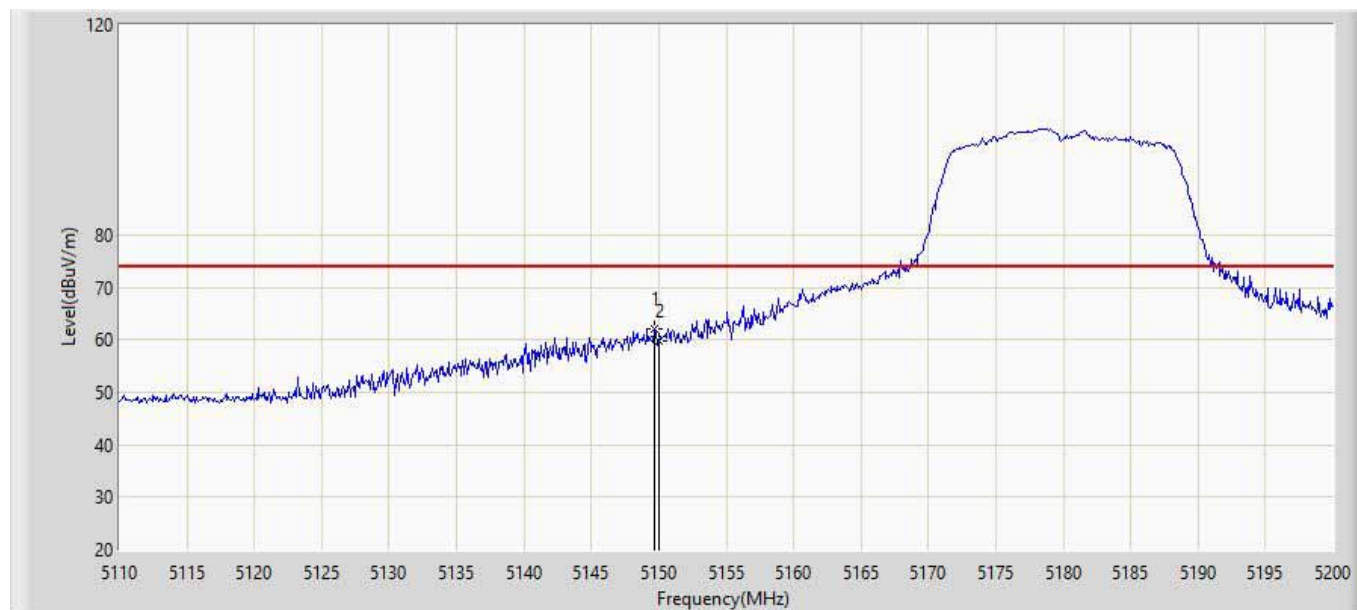


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5850.000	41.971	44.370	-12.029	54.000	-2.399	AV
2		5860.000	40.522	42.913	-13.478	54.000	-2.391	AV

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 15:52
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Horizontal
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(20MHz) at 5180MHz Ant 0+1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5149.690	62.130	65.579	-11.870	74.000	-3.449	PK
2		5150.000	59.675	63.124	-14.325	74.000	-3.449	PK

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 15:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Horizontal
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(20MHz) at 5180MHz Ant 0+1	

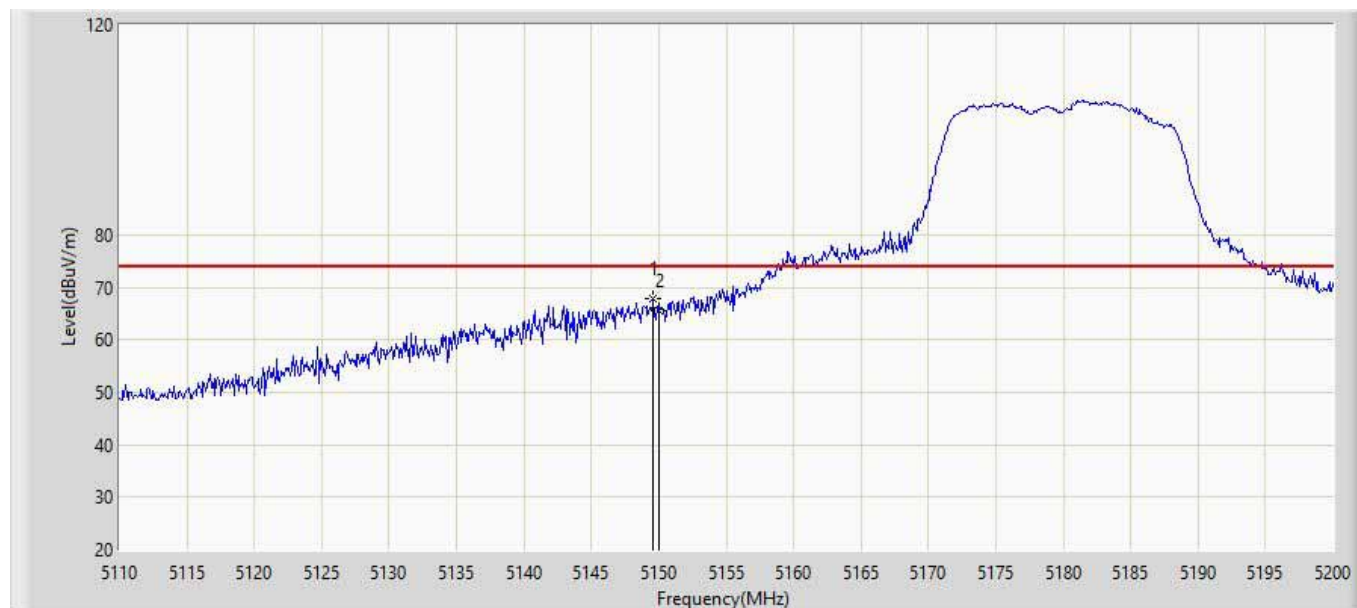


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5150.000	37.055	40.504	-16.945	54.000	-3.449	AV

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 15:57
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Vertical
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(20MHz) at 5180MHz Ant 0+1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5149.600	67.963	71.413	-6.037	74.000	-3.450	PK
2		5150.000	65.596	69.045	-8.404	74.000	-3.449	PK

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 16:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Vertical
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(20MHz) at 5180MHz Ant 0+1	

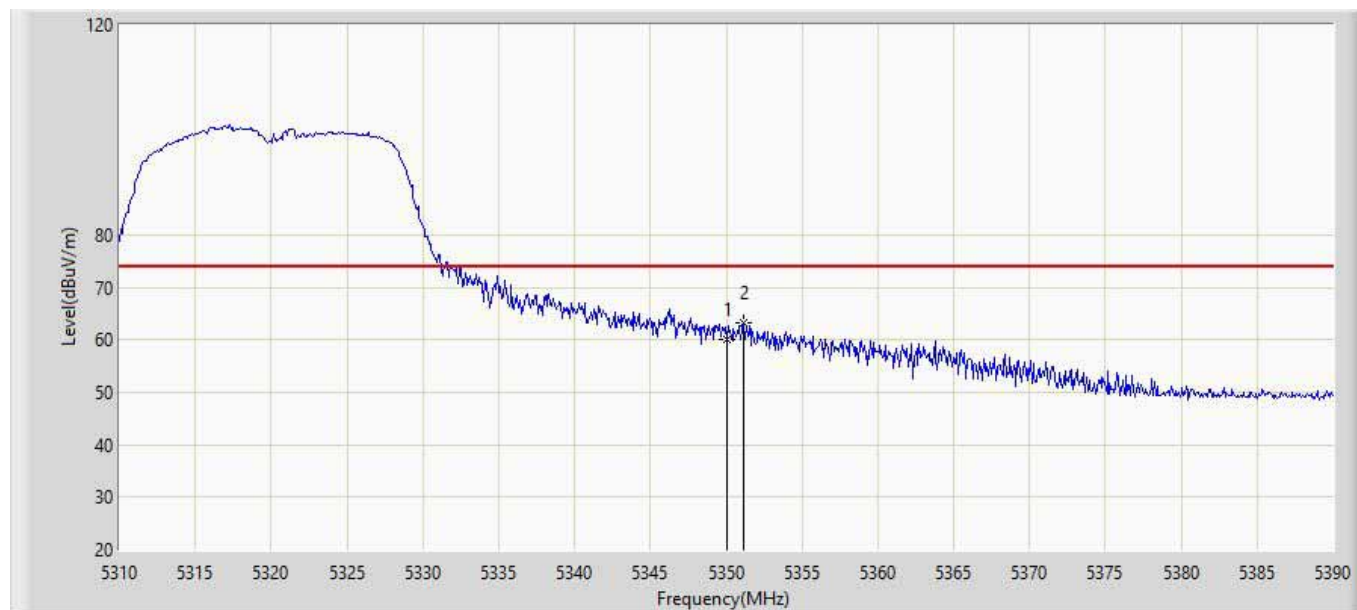


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5150.000	41.823	45.272	-12.177	54.000	-3.449	AV

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 16:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Horizontal
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(20MHz) at 5320MHz Ant 0+1	

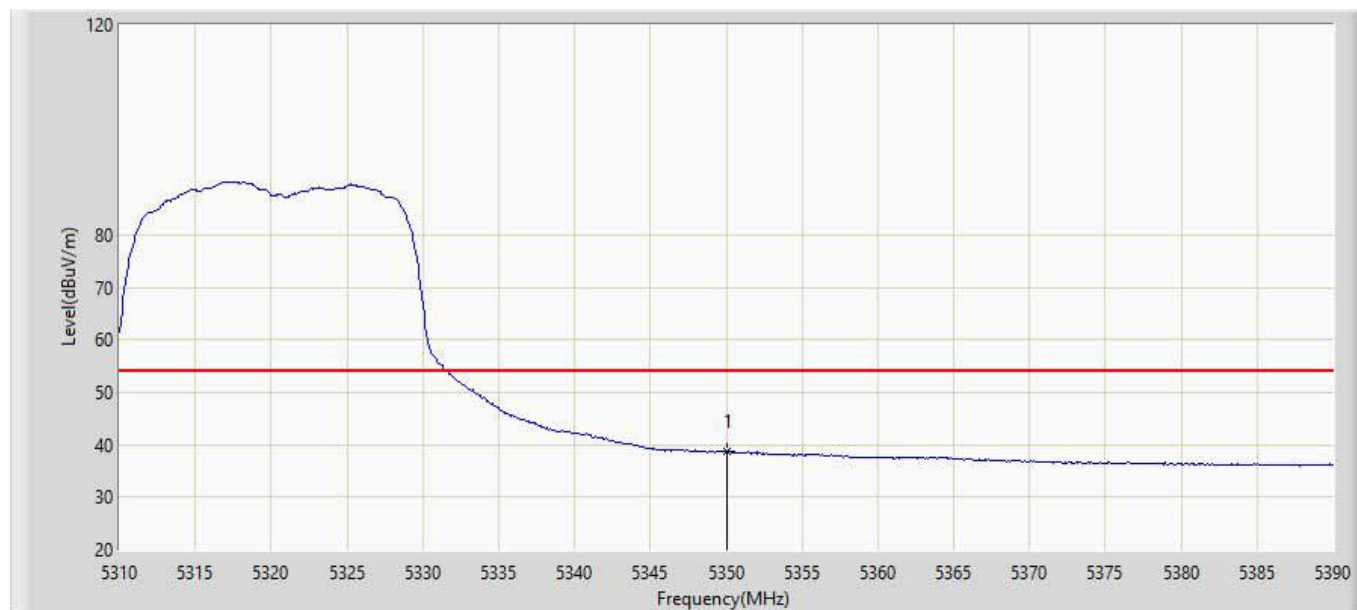


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5350.000	59.978	62.999	-14.022	74.000	-3.021	PK
2	*	5351.120	63.112	66.131	-10.888	74.000	-3.019	PK

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 16:05
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Horizontal
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(20MHz) at 5320MHz Ant 0+1	

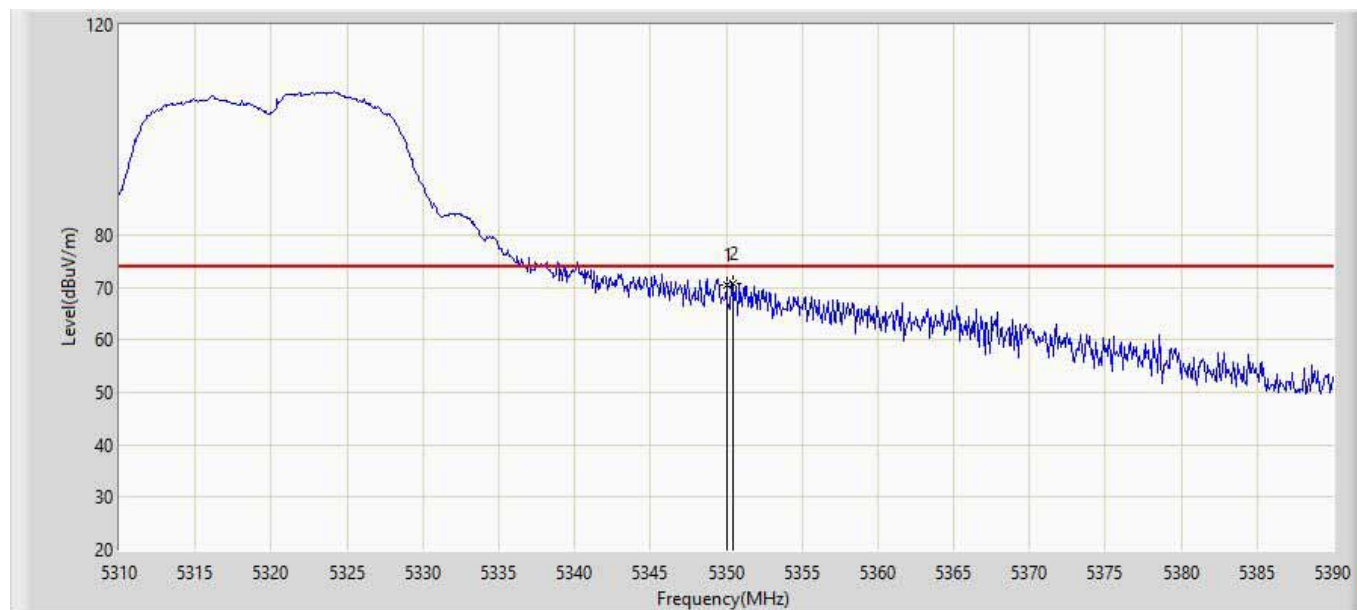


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5350.000	38.670	41.691	-15.330	54.000	-3.021	AV

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 16:05
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Vertical
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(20MHz) at 5320MHz Ant 0+1	

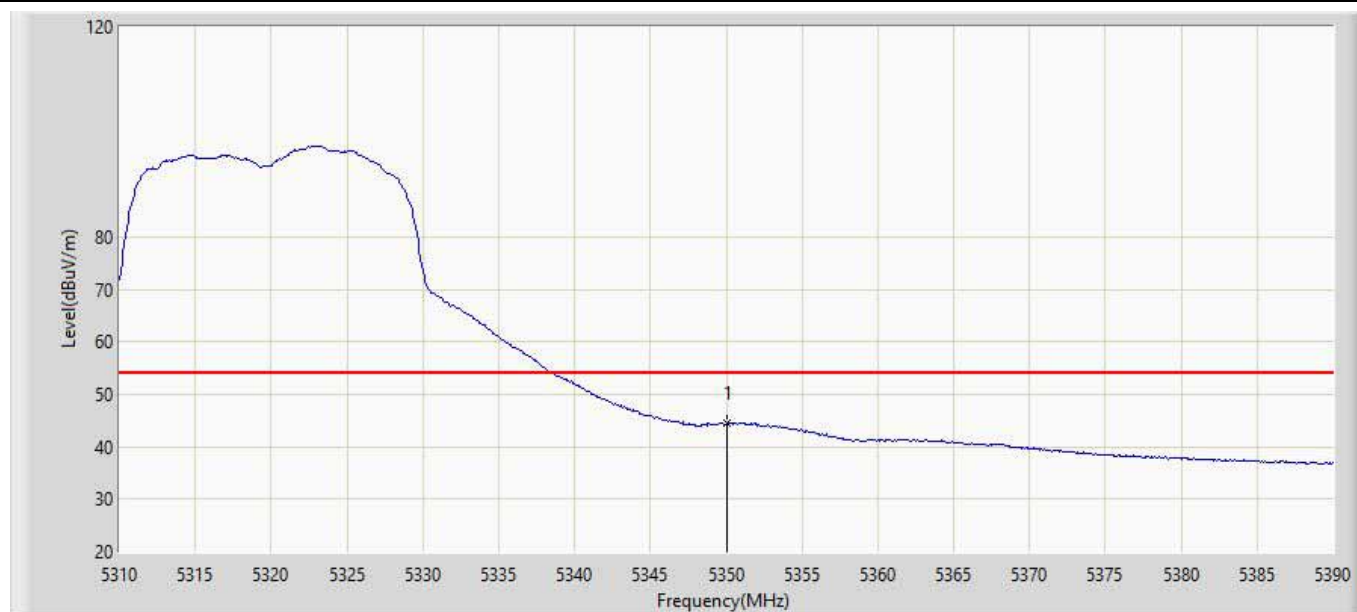


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5350.000	70.328	73.349	-3.672	74.000	-3.021	PK
2	*	5350.480	70.795	73.815	-3.205	74.000	-3.020	PK

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 16:10
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Vertical
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(20MHz) at 5320MHz Ant 0+1	

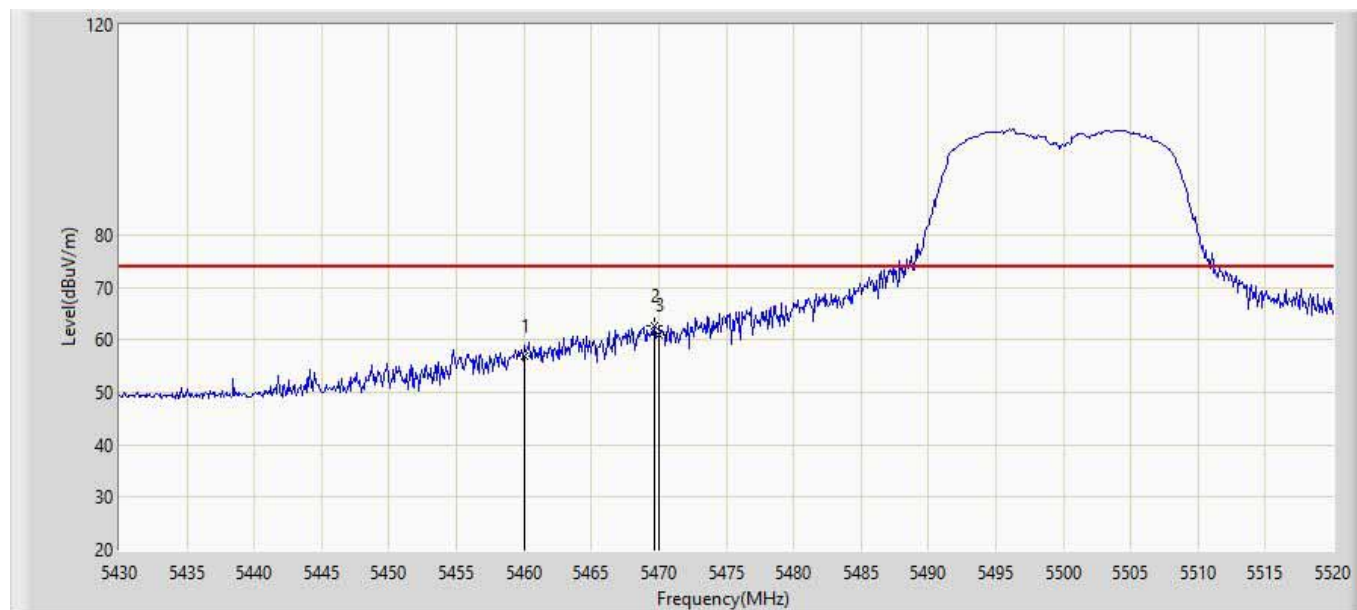


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5350.000	44.411	47.432	-9.589	54.000	-3.021	AV

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 16:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Horizontal
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(20MHz) at 5500MHz Ant 0+1	

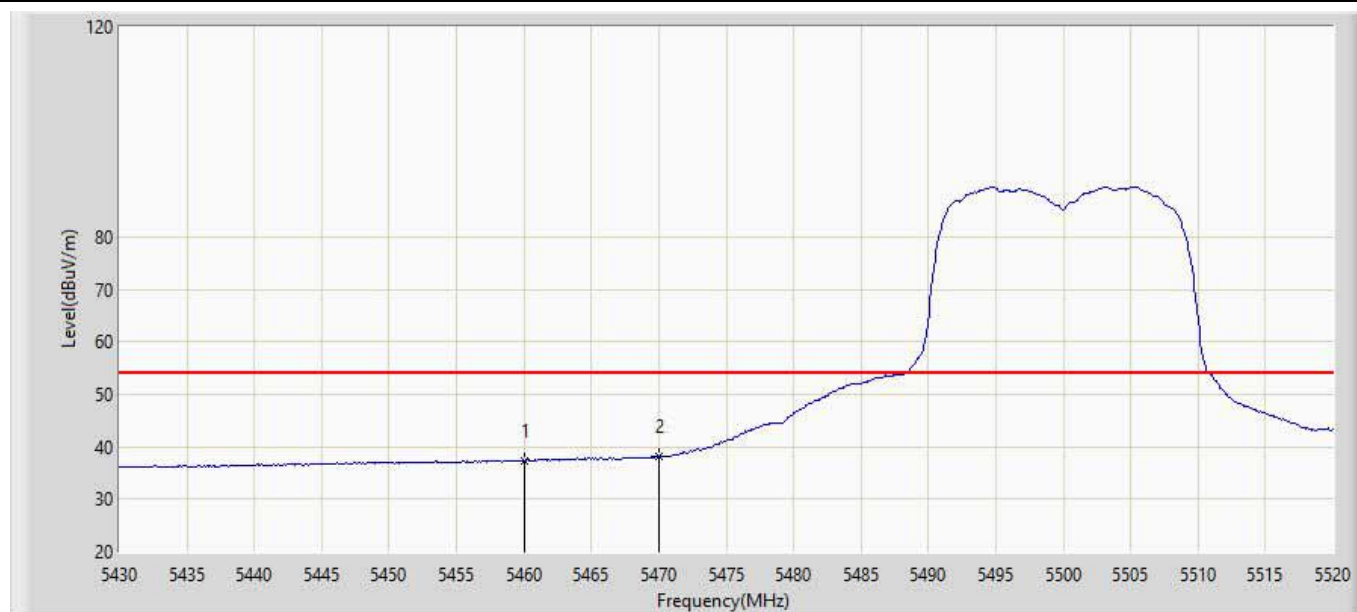


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	57.029	59.814	-16.971	74.000	-2.785	PK
2	*	5469.690	62.716	65.481	-11.284	74.000	-2.765	PK
3		5470.000	60.917	63.681	-13.083	74.000	-2.764	PK

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 16:16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Horizontal
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(20MHz) at 5500MHz Ant 0+1	

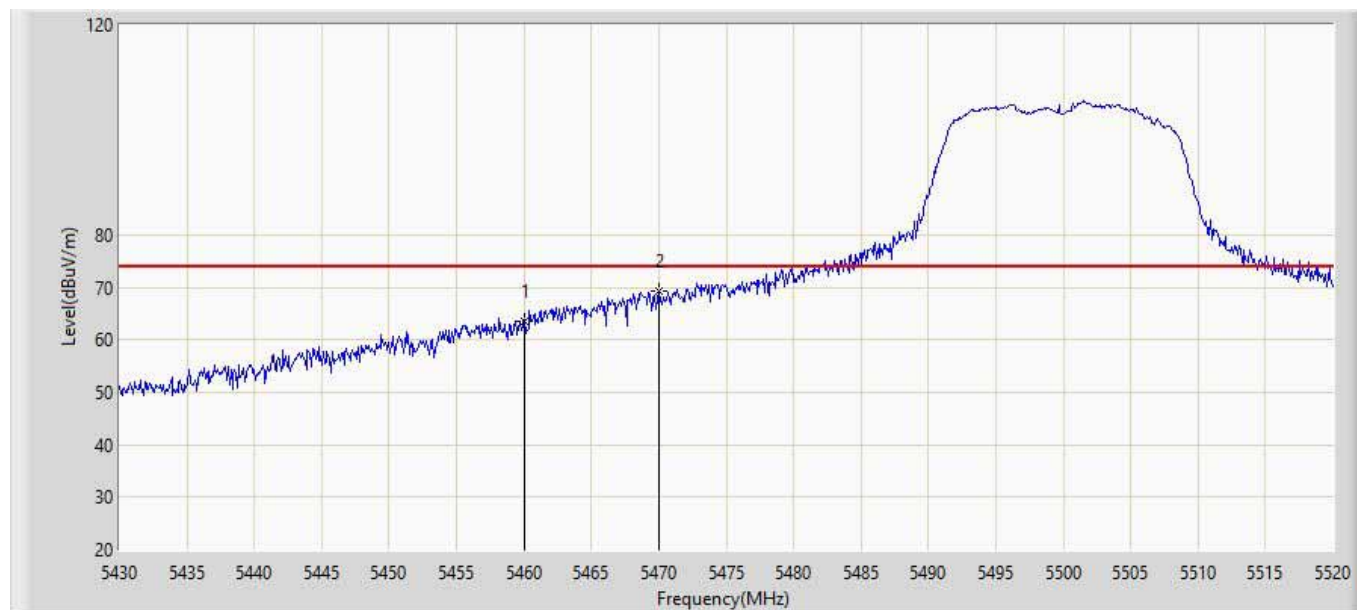


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	37.358	40.143	-16.642	54.000	-2.785	AV
2	*	5470.000	38.050	40.814	-15.950	54.000	-2.764	AV

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 16:17
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Vertical
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(20MHz) at 5500MHz Ant 0+1	

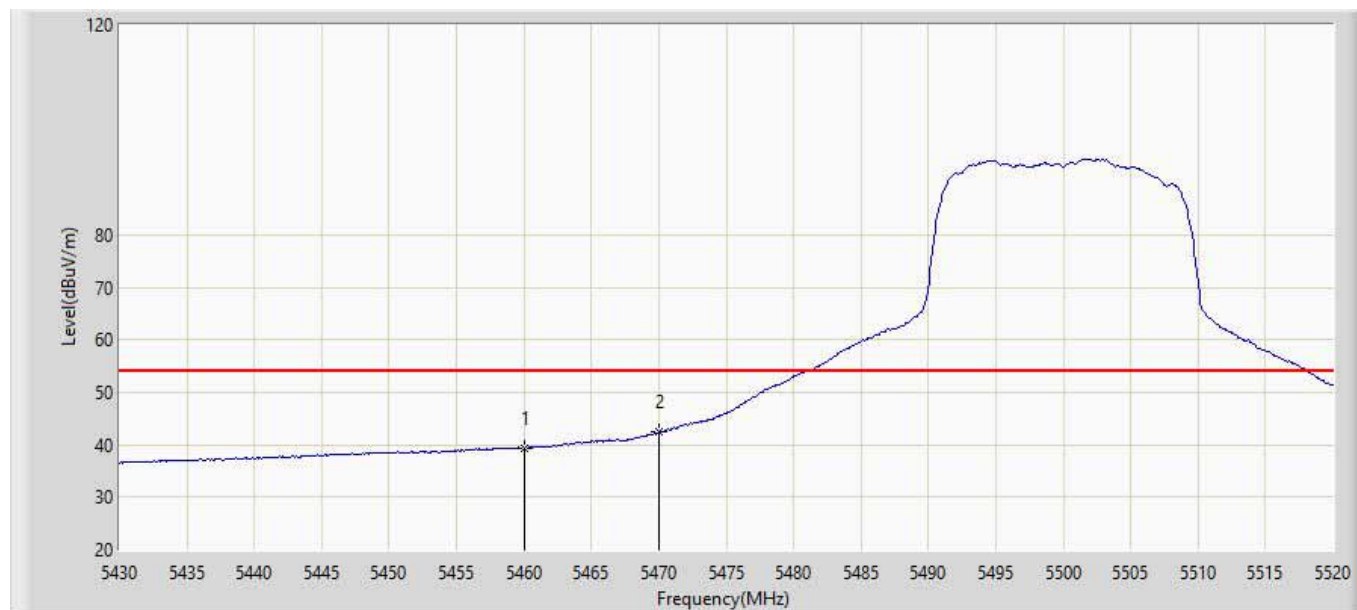


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	63.567	66.352	-10.433	74.000	-2.785	PK
2	*	5470.000	69.420	72.184	-4.580	74.000	-2.764	PK

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 16:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Vertical
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(20MHz) at 5500MHz Ant 0+1	

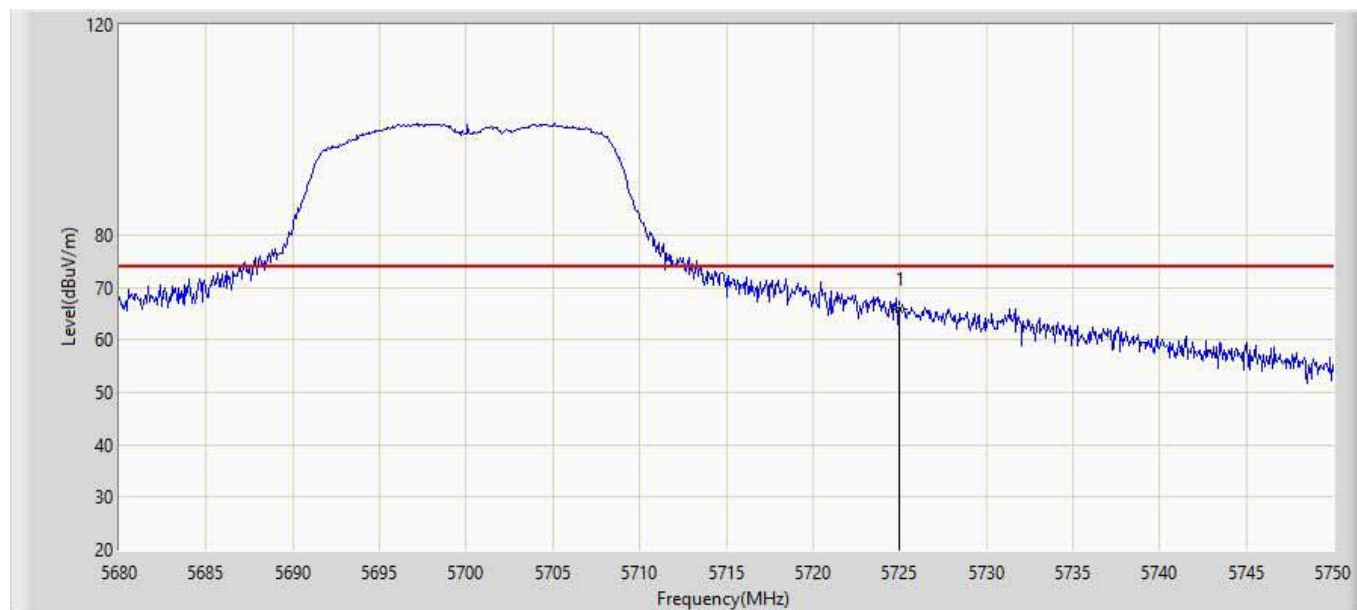


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	39.449	42.234	-14.551	54.000	-2.785	AV
2	*	5470.000	42.364	45.128	-11.636	54.000	-2.764	AV

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 16:22
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Horizontal
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(20MHz) at 5700MHz Ant 0+1	

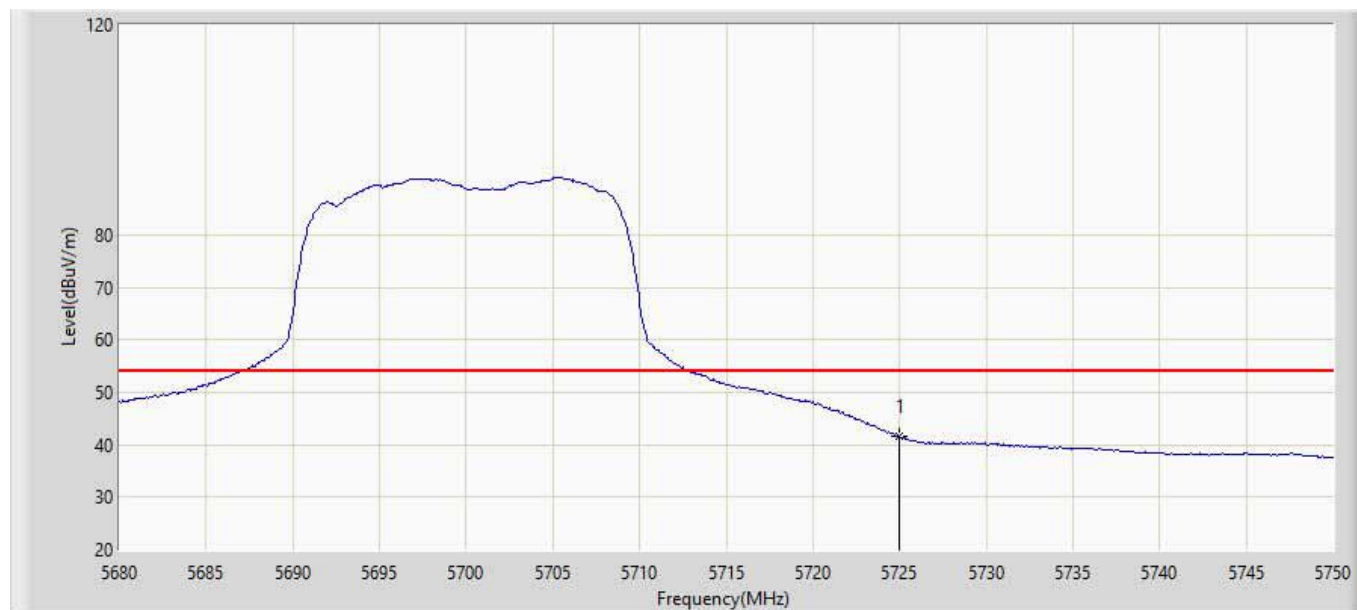


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5725.000	65.775	68.282	-8.225	74.000	-2.507	PK

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 16:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Horizontal
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(20MHz) at 5700MHz Ant 0+1	

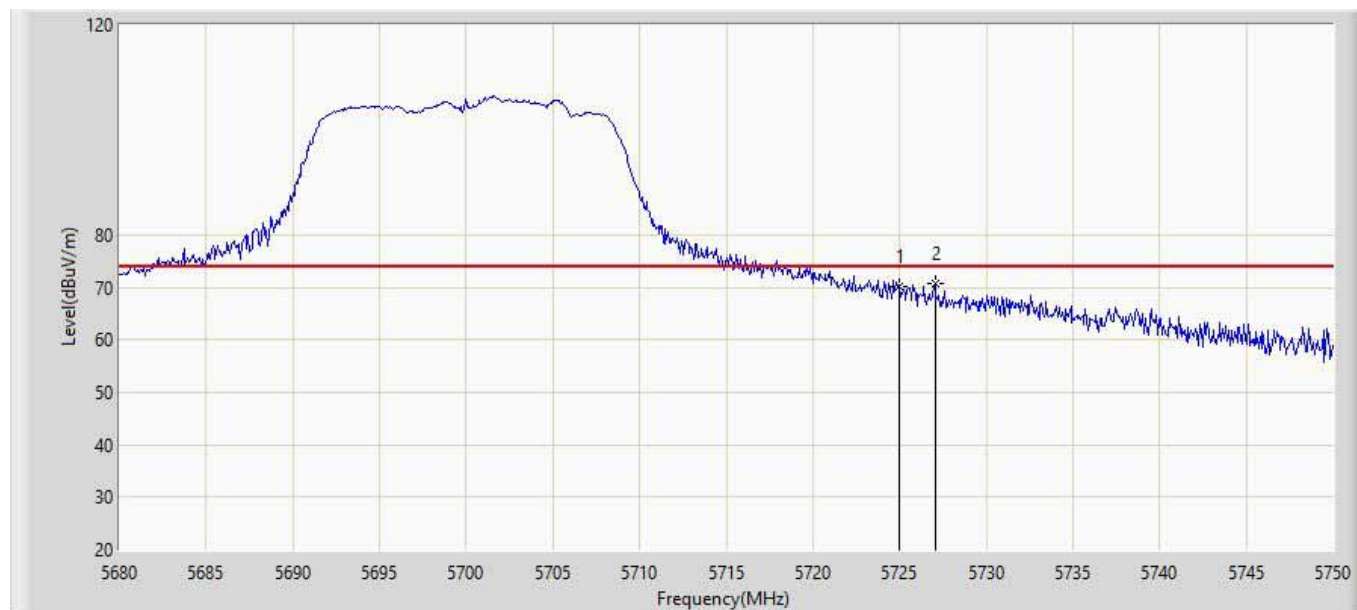


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5725.000	41.529	44.036	-12.471	54.000	-2.507	AV

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 16:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Vertical
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(20MHz) at 5700MHz Ant 0+1	

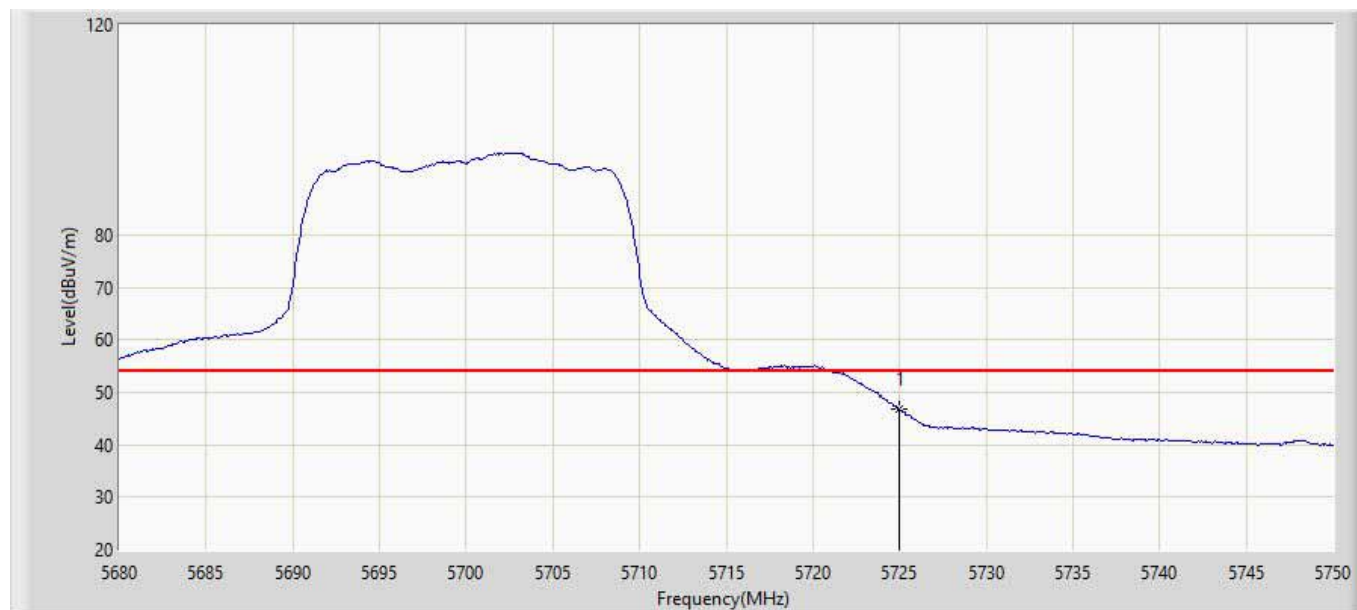


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5725.000	70.264	72.771	-3.736	74.000	-2.507	PK
2	*	5727.040	70.837	73.342	-3.163	74.000	-2.505	PK

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 16:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Vertical
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(20MHz) at 5700MHz Ant 0+1	

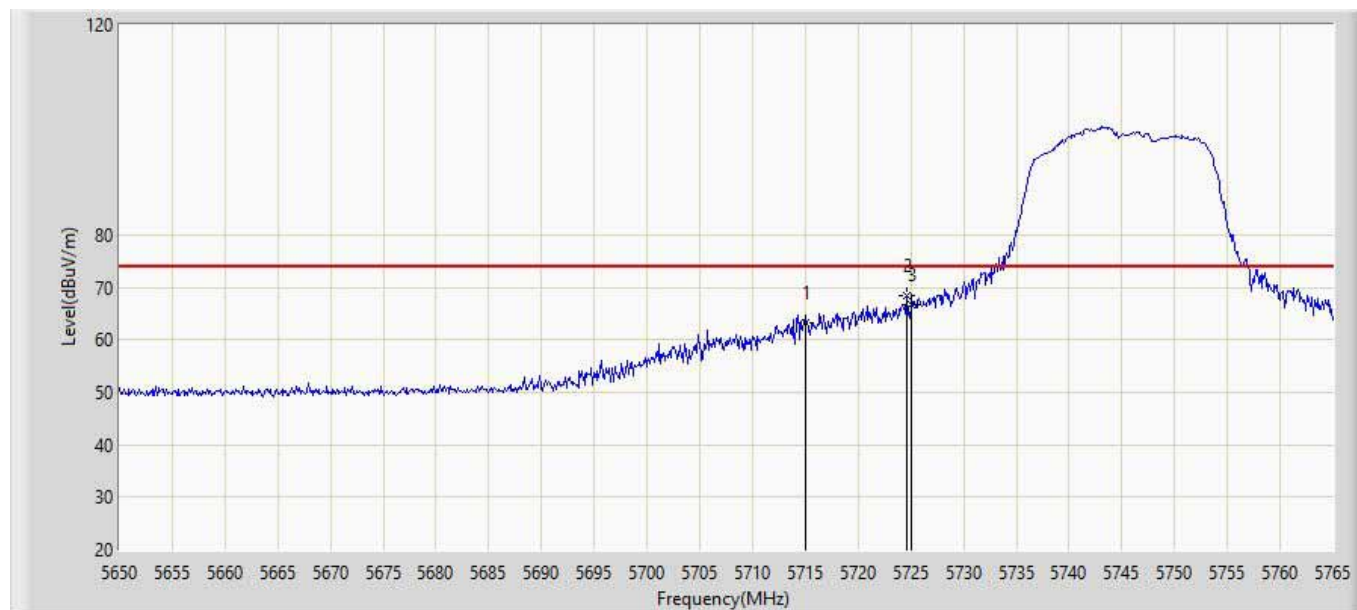


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5725.000	46.687	49.194	-7.313	54.000	-2.507	AV

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 16:33
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Horizontal
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(20MHz) at 5745MHz Ant 0+1	

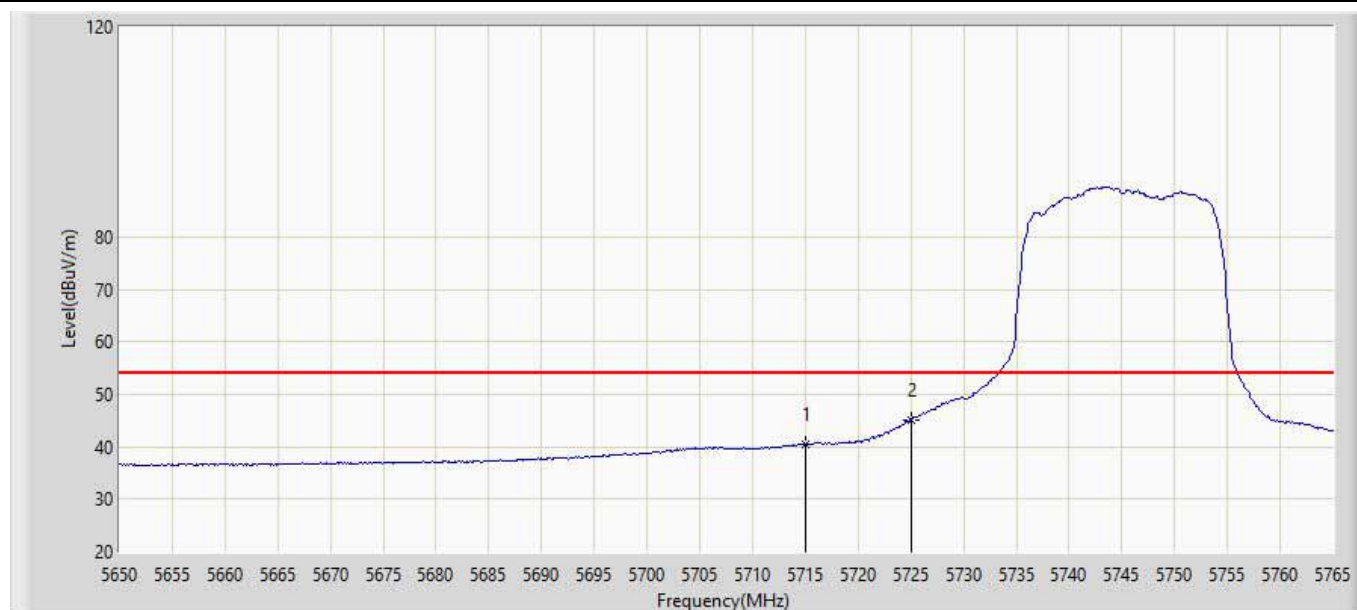


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5715.000	63.321	65.836	-10.679	74.000	-2.515	PK
2	*	5724.635	68.379	70.886	-5.621	74.000	-2.507	PK
3		5725.000	66.686	69.193	-7.314	74.000	-2.507	PK

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 16:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Horizontal
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(20MHz) at 5745MHz Ant 0+1	

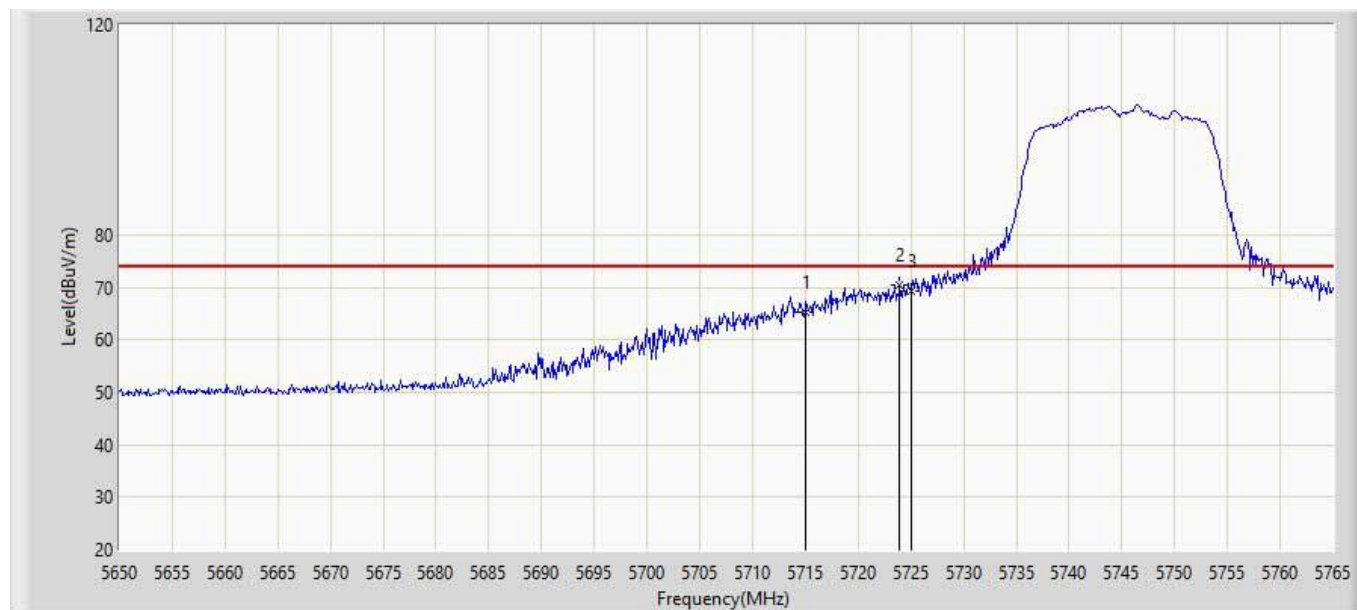


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5715.000	40.525	43.040	-13.475	54.000	-2.515	AV
2	*	5725.000	45.141	47.648	-8.859	54.000	-2.507	AV

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 16:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Vertical
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(20MHz) at 5745MHz Ant 0+1	

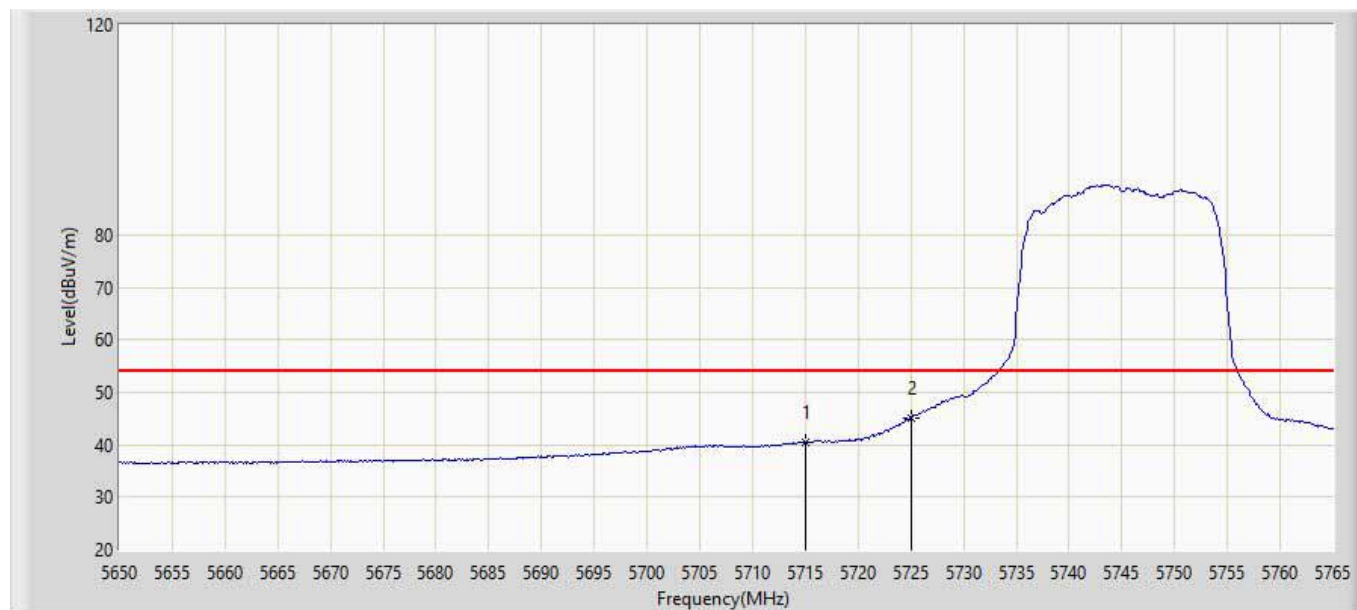


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5715.000	65.259	67.774	-8.741	74.000	-2.515	PK
2	*	5723.945	70.347	72.855	-3.653	74.000	-2.508	PK
3		5725.000	69.195	71.702	-4.805	74.000	-2.507	PK

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 16:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Vertical
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(20MHz) at 5745MHz Ant 0+1	

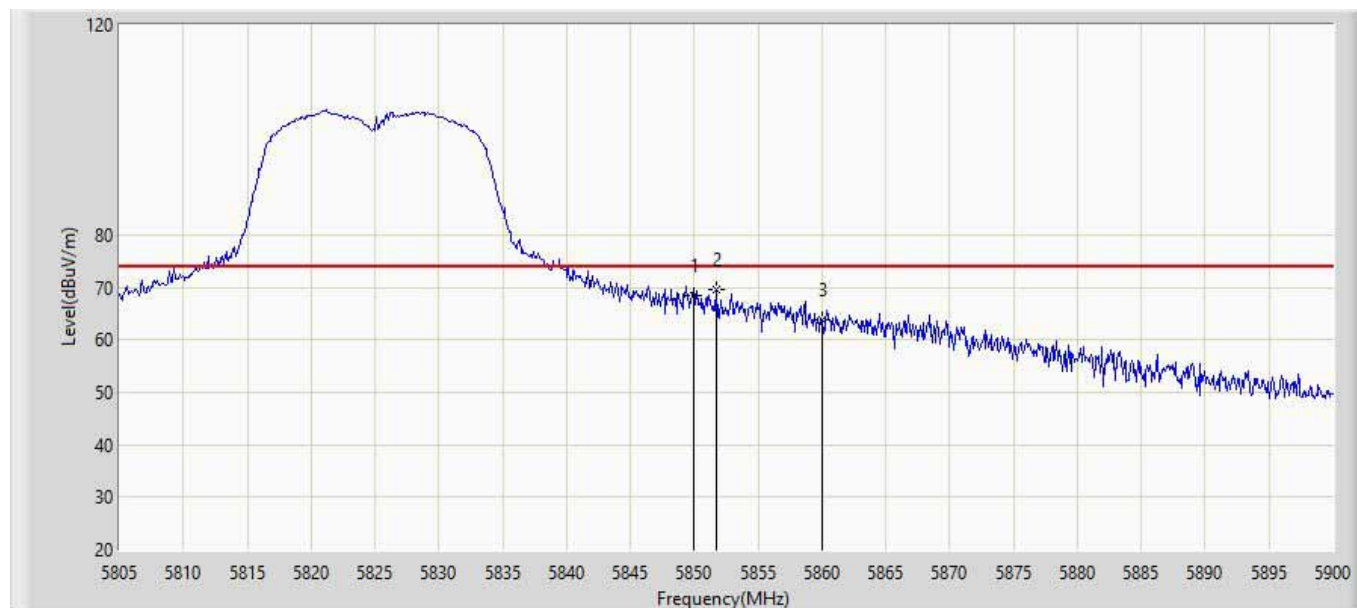


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5715.000	43.512	46.027	-10.488	54.000	-2.515	AV
2	*	5725.000	46.211	48.718	-7.789	54.000	-2.507	AV

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 16:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Horizontal
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(20MHz) at 5825MHz Ant 0+1	

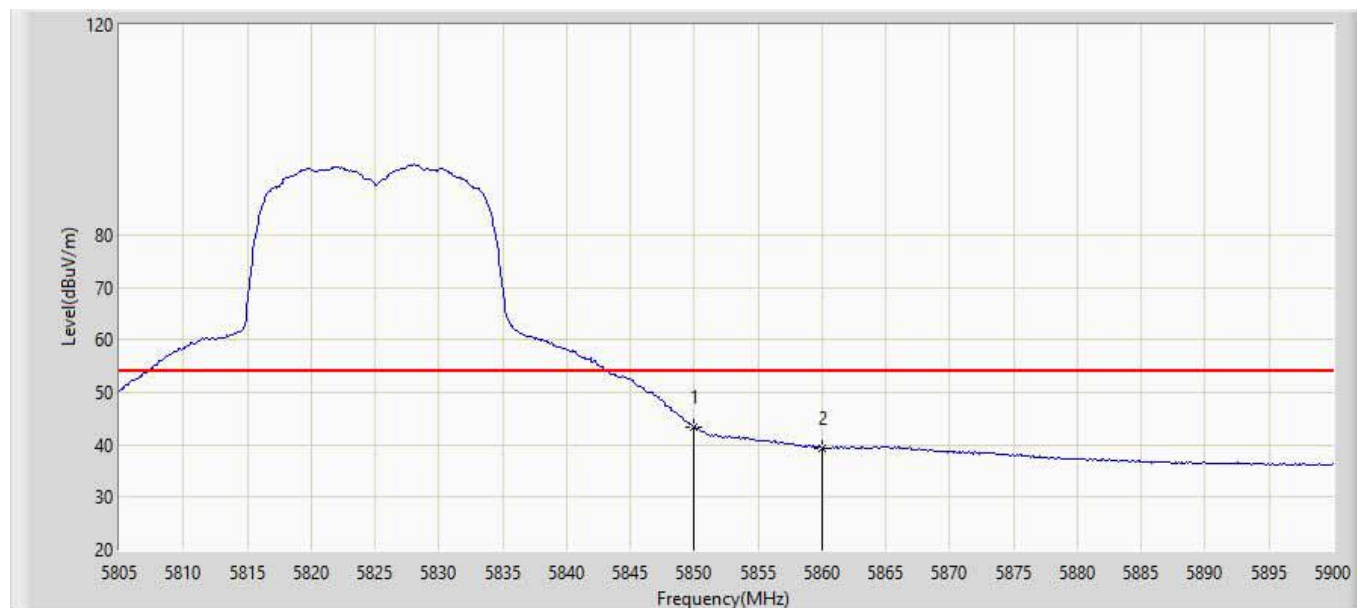


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5850.000	68.349	70.748	-5.651	74.000	-2.399	PK
2	*	5851.740	69.486	71.883	-4.514	74.000	-2.397	PK
3		5860.000	63.728	66.119	-10.272	74.000	-2.391	PK

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 16:53
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Horizontal
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(20MHz) at 5825MHz Ant 0+1	

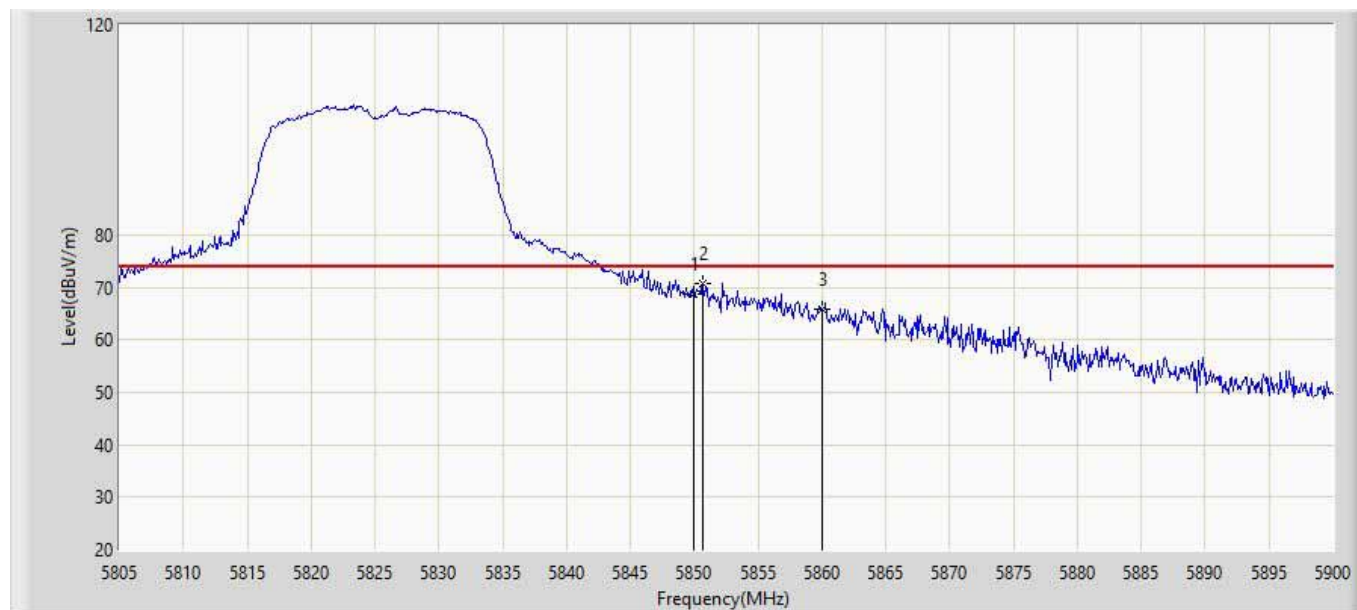


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5850.000	43.279	45.678	-10.721	54.000	-2.399	AV
2		5860.000	39.419	41.810	-14.581	54.000	-2.391	AV

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 16:54
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Vertical
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(20MHz) at 5825MHz Ant 0+1	

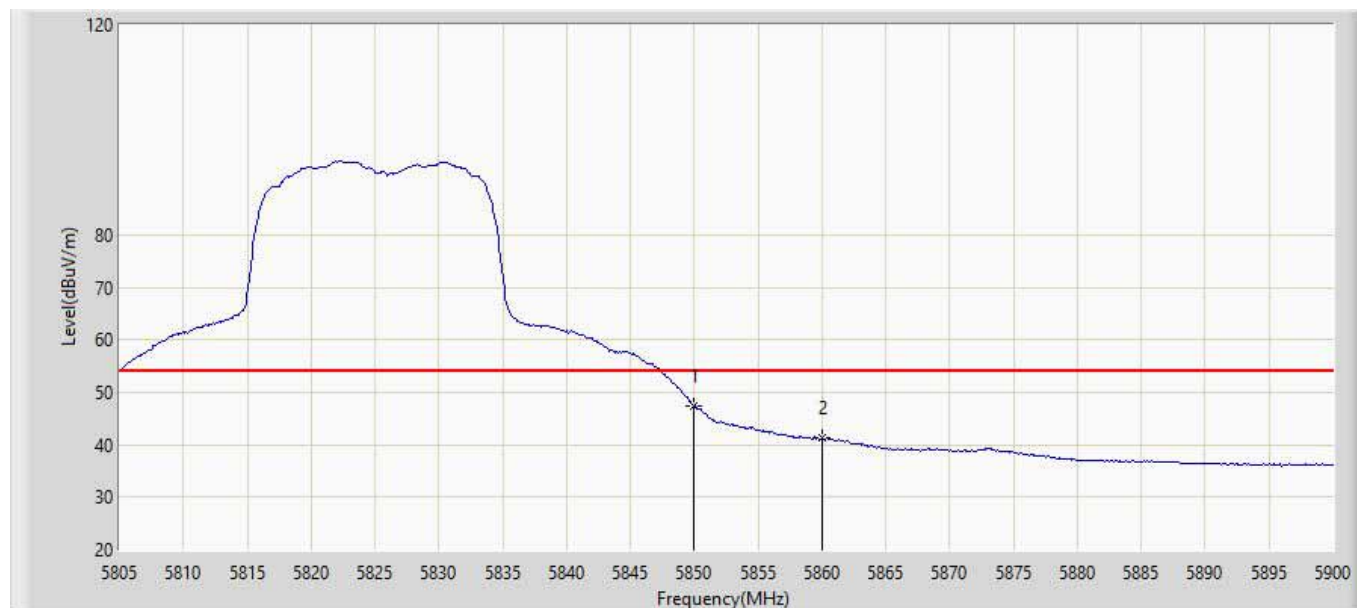


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5850.000	68.604	71.003	-5.396	74.000	-2.399	PK
2	*	5850.695	70.693	73.091	-3.307	74.000	-2.398	PK
3		5860.000	65.706	68.097	-8.294	74.000	-2.391	PK

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 16:57
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Vertical
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(20MHz) at 5825MHz Ant 0+1	

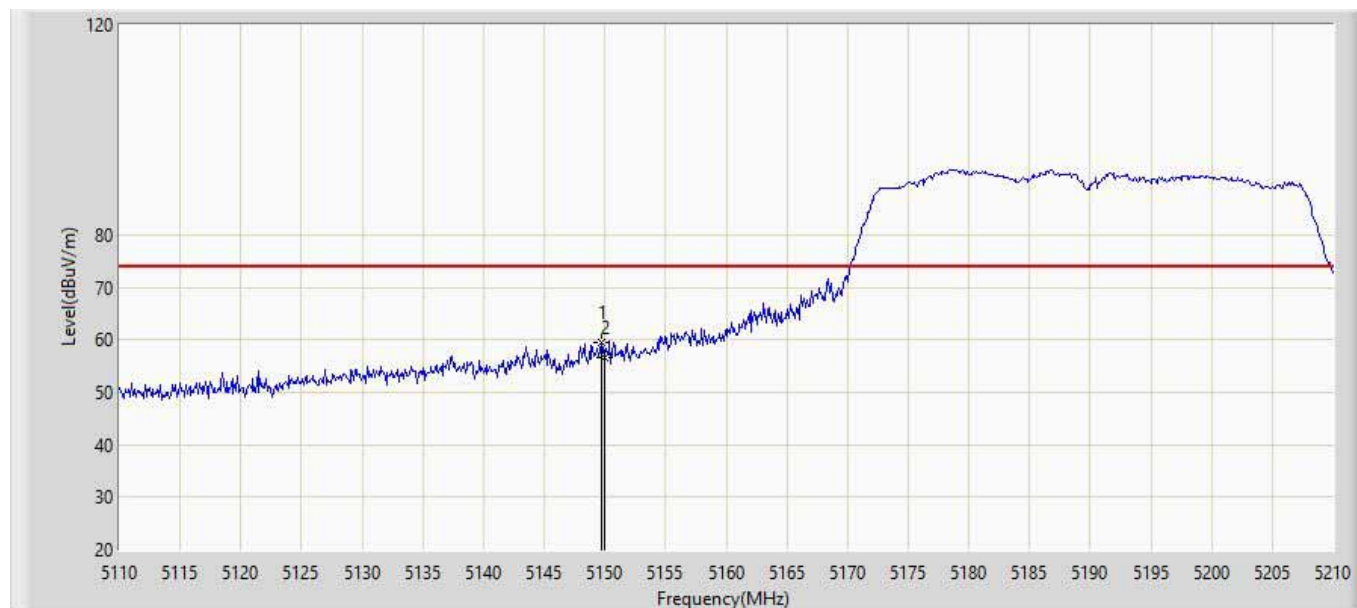


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5850.000	47.460	49.859	-6.540	54.000	-2.399	AV
2		5860.000	41.229	43.620	-12.771	54.000	-2.391	AV

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 16:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Horizontal
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(40MHz) at 5190MHz Ant 0+1	

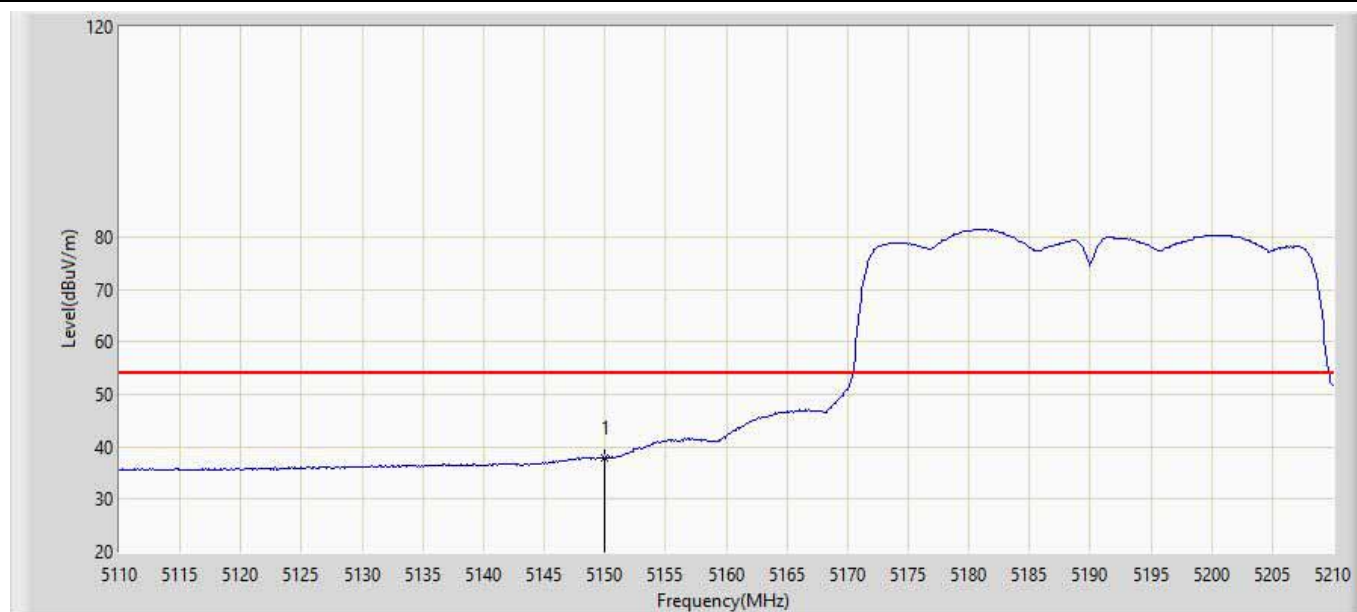


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5149.700	59.398	62.847	-14.602	74.000	-3.449	PK
2		5150.000	56.602	60.051	-17.398	74.000	-3.449	PK

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 17:05
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Horizontal
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(40MHz) at 5190MHz Ant 0+1	

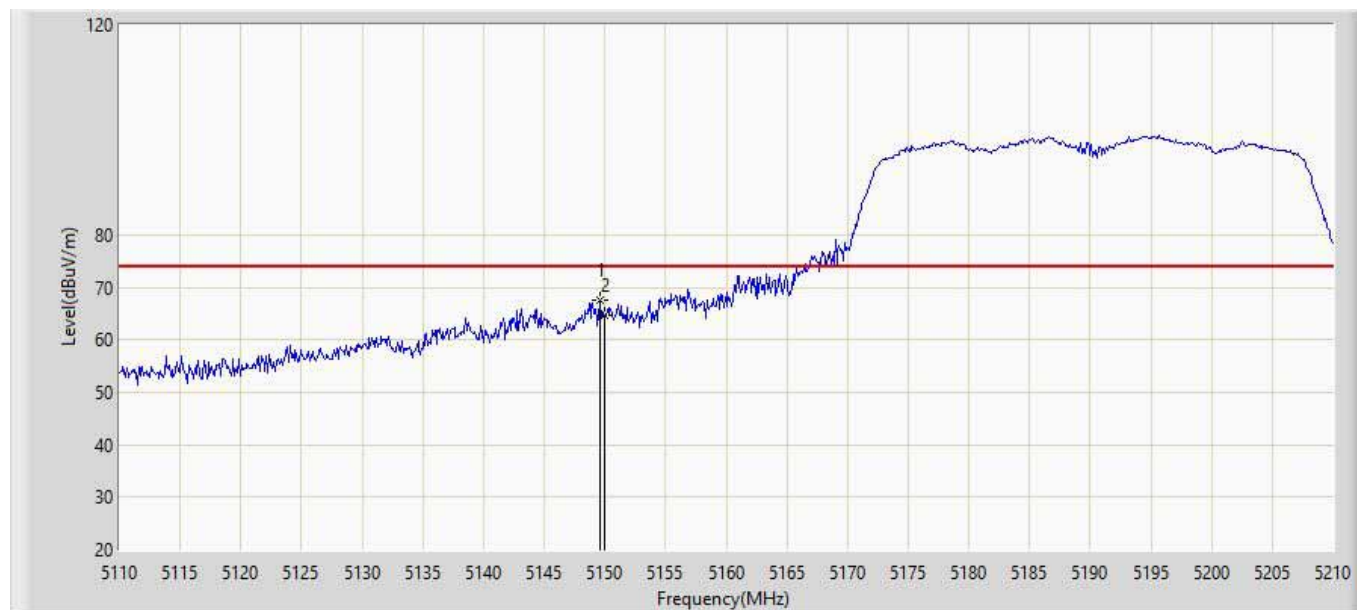


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5150.000	37.929	41.378	-16.071	54.000	-3.449	AV

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 17:07
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Vertical
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(40MHz) at 5190MHz Ant 0+1	

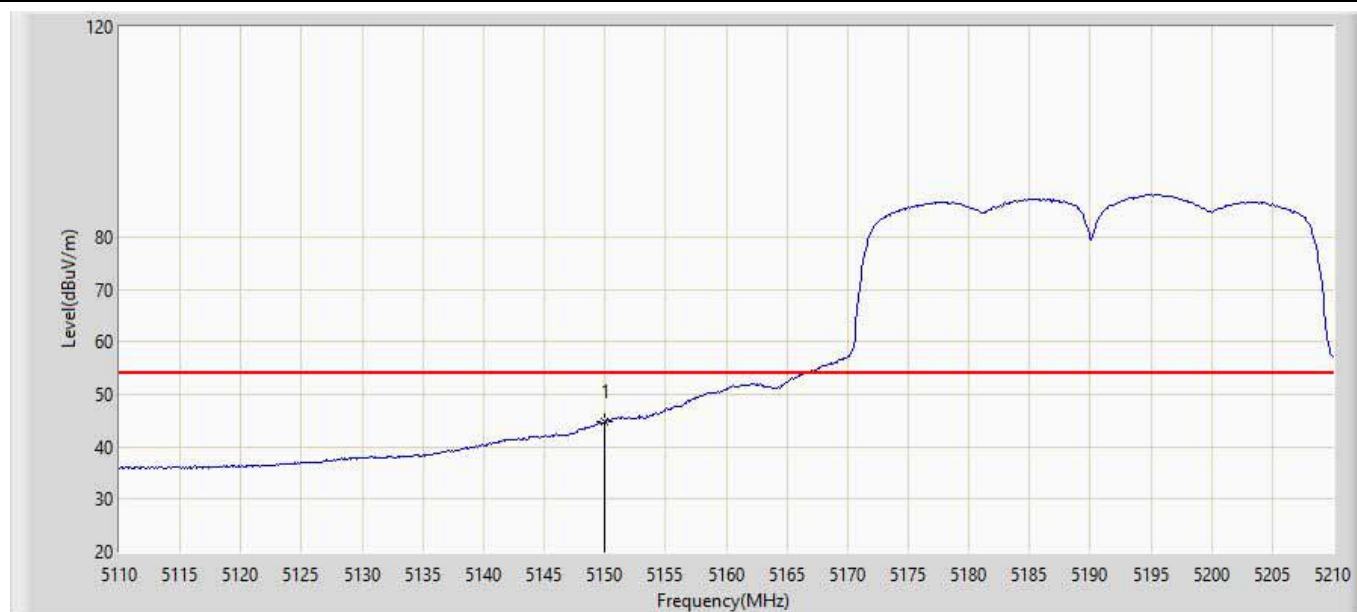


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5149.600	67.675	71.125	-6.325	74.000	-3.450	PK
2		5150.000	64.774	68.223	-9.226	74.000	-3.449	PK

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 17:12
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Vertical
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(40MHz) at 5190MHz Ant 0+1	

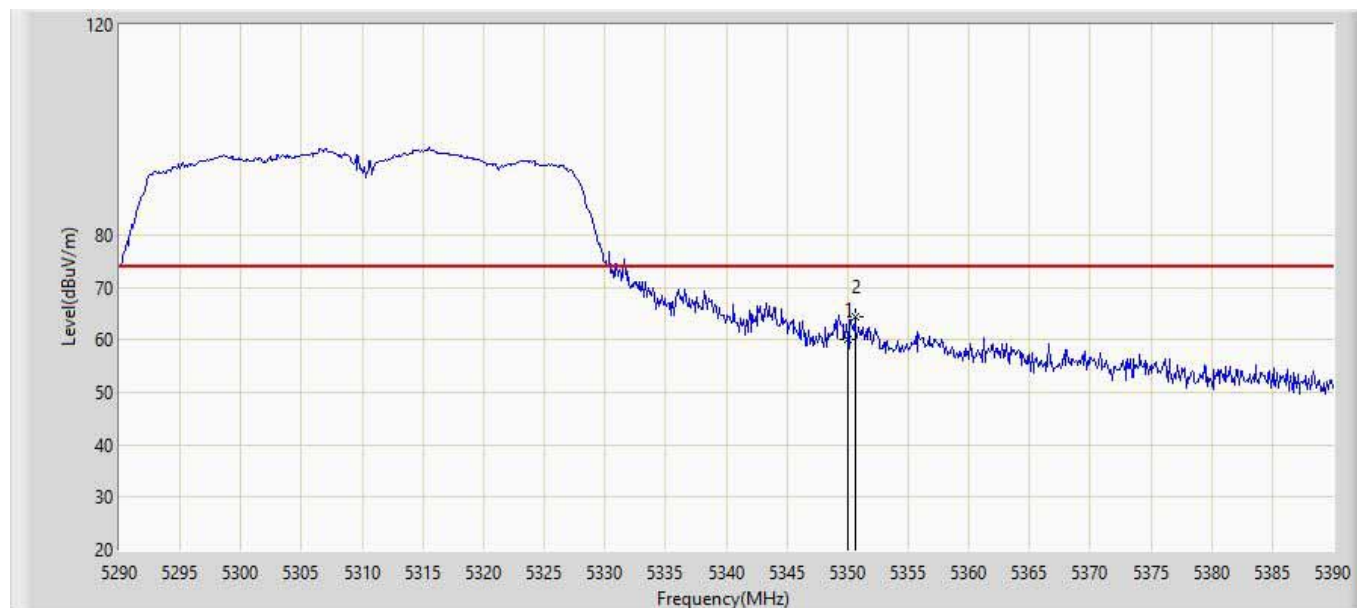


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5150.000	44.859	48.308	-9.141	54.000	-3.449	AV

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 17:14
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Horizontal
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(40MHz) at 5310MHz Ant 0+1	

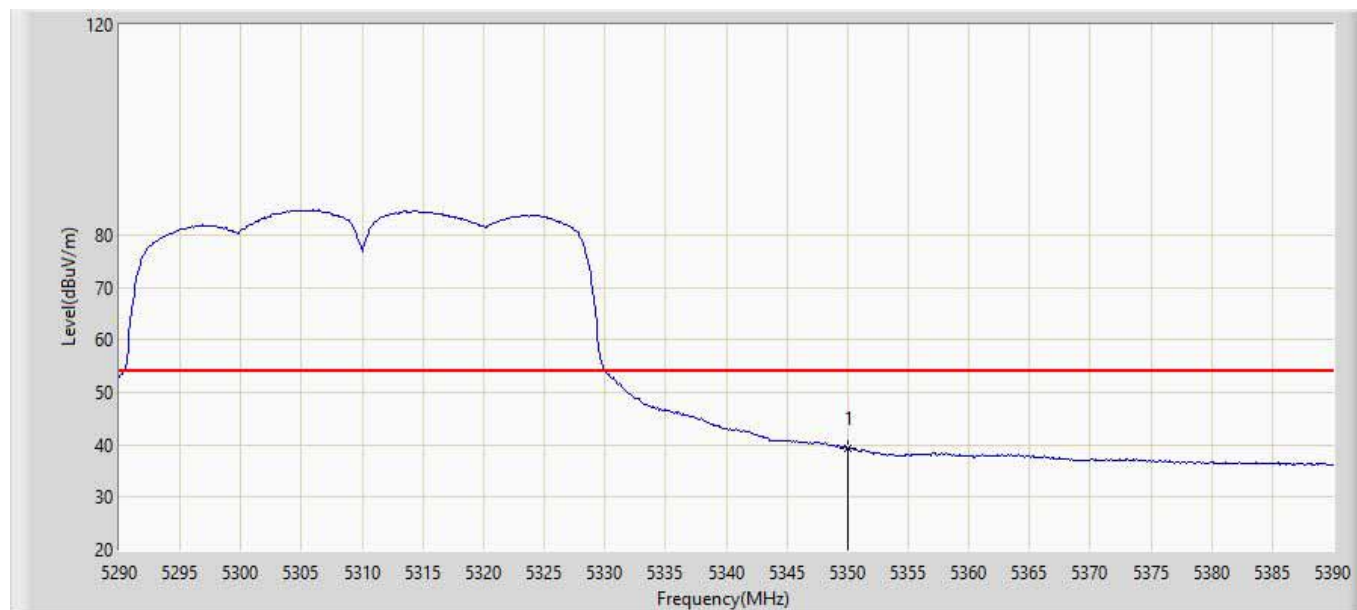


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5350.000	60.180	63.201	-13.820	74.000	-3.021	PK
2	*	5350.600	64.315	67.335	-9.685	74.000	-3.020	PK

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 17:19
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Horizontal
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(40MHz) at 5310MHz Ant 0+1	

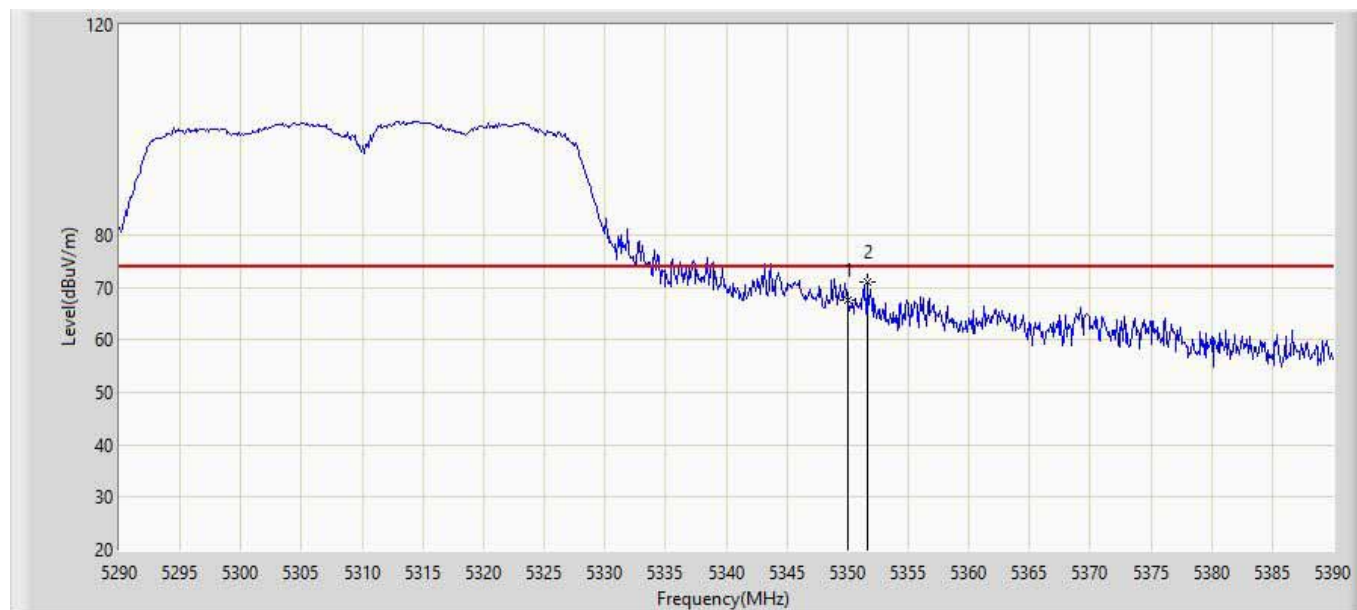


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5350.000	39.384	42.405	-14.616	54.000	-3.021	AV

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 17:20
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Vertical
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(40MHz) at 5310MHz Ant 0+1	

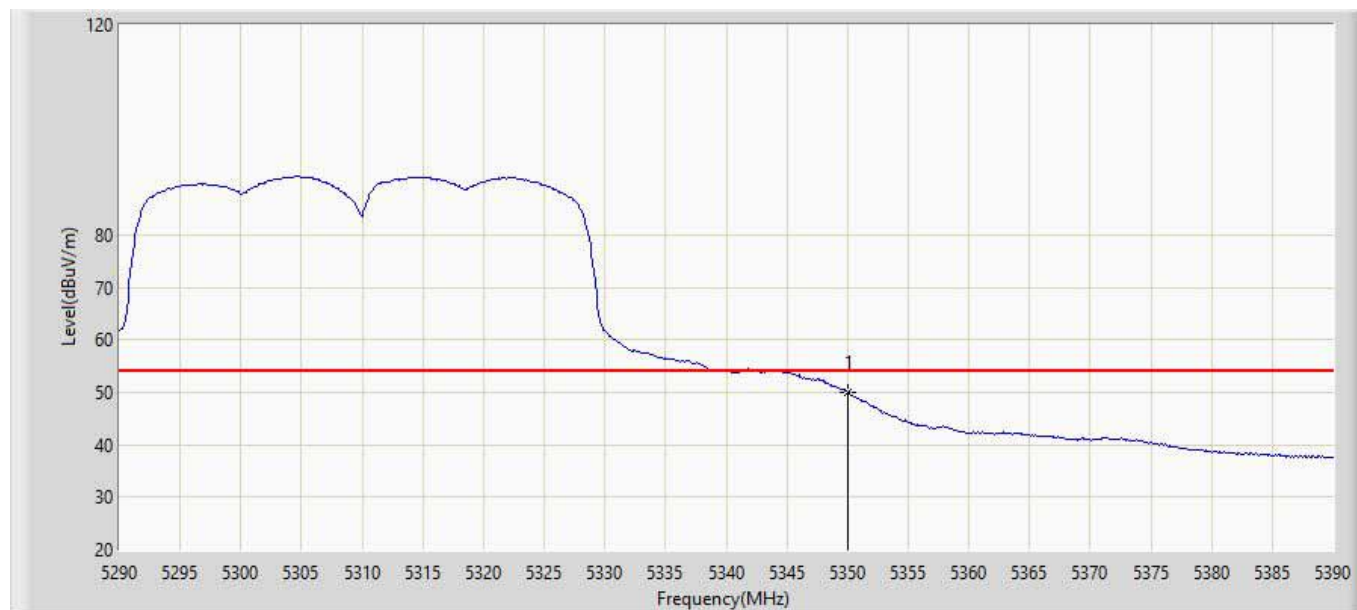


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5350.000	67.632	70.653	-6.368	74.000	-3.021	PK
2	*	5351.600	71.093	74.111	-2.907	74.000	-3.018	PK

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 17:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Vertical
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(40MHz) at 5310MHz Ant 0+1	

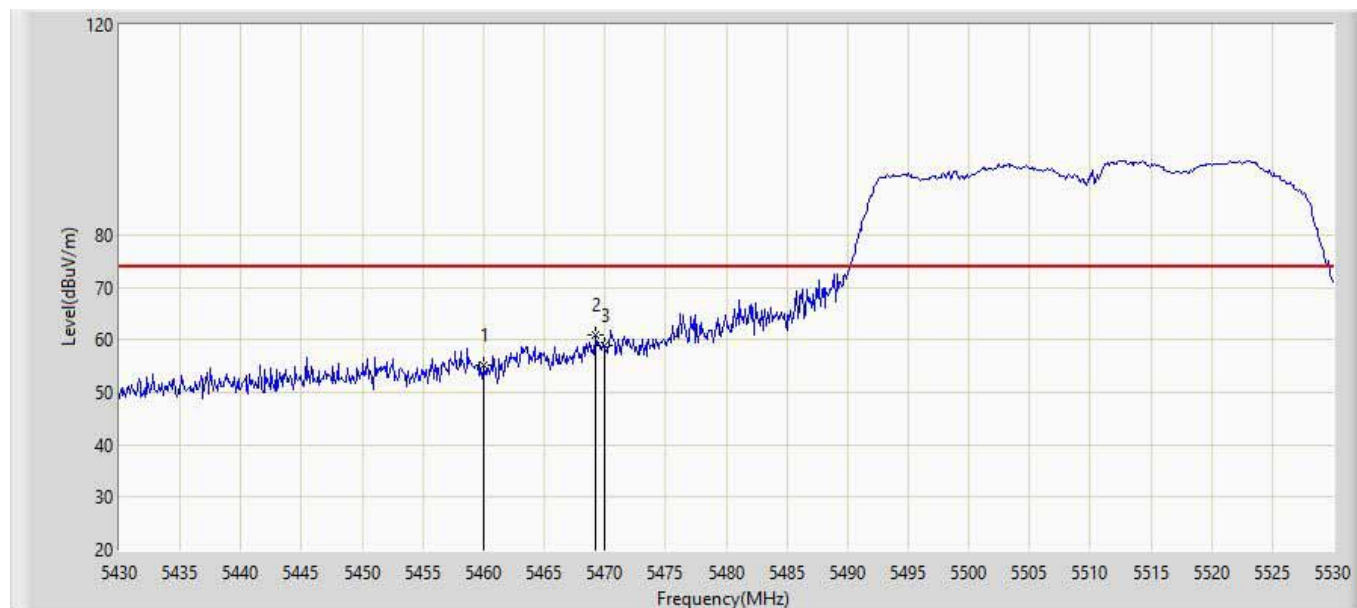


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5350.000	50.044	53.065	-3.956	54.000	-3.021	AV

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 17:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Horizontal
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(40MHz) at 5510MHz Ant 0+1	

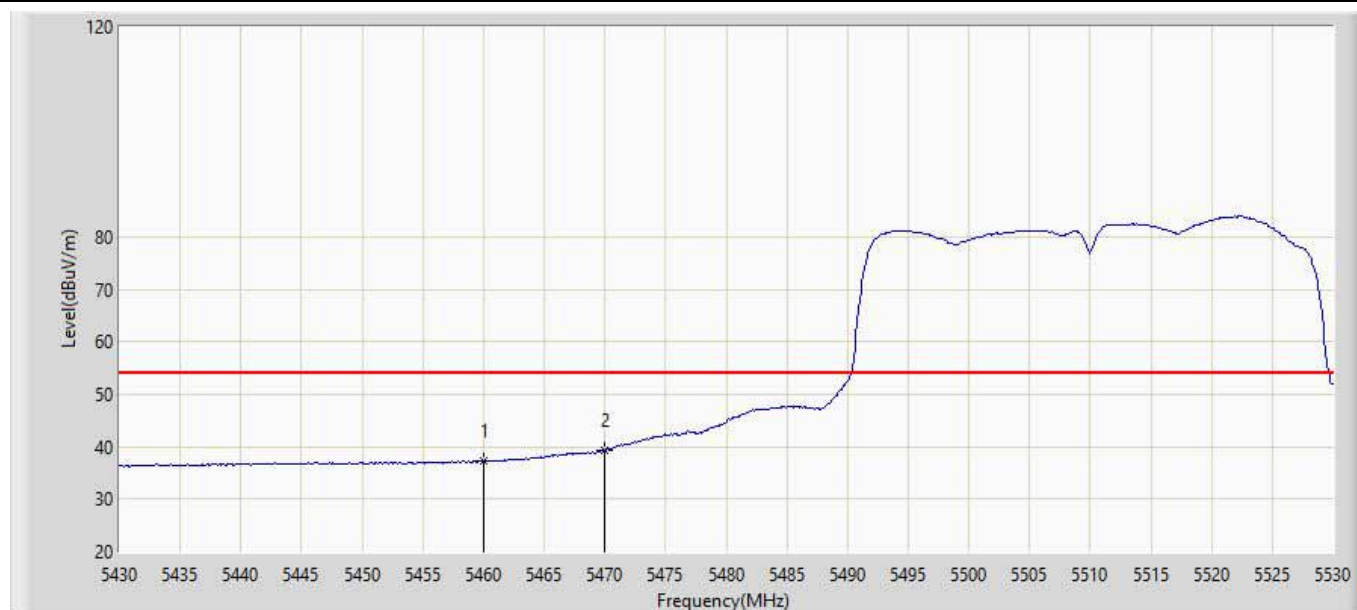


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	55.155	57.940	-18.845	74.000	-2.785	PK
2	*	5469.200	60.819	63.585	-13.181	74.000	-2.766	PK
3		5470.000	59.024	61.788	-14.976	74.000	-2.764	PK

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 17:33
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Horizontal
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(40MHz) at 5510MHz Ant 0+1	

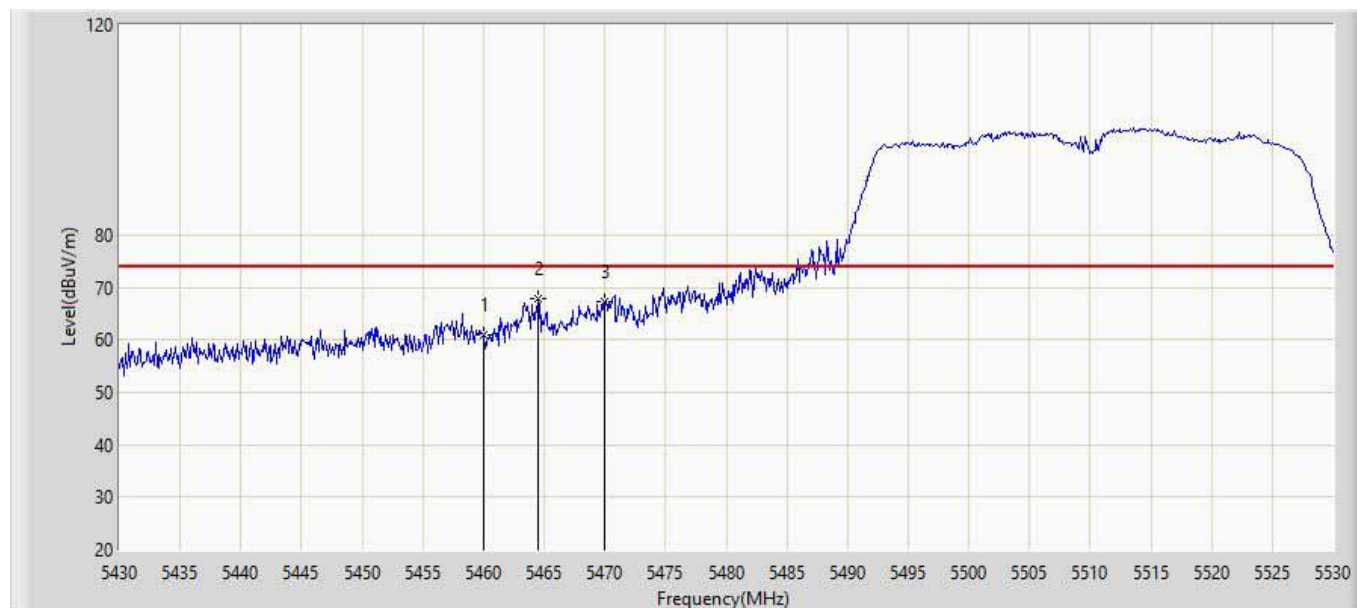


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	37.149	39.934	-16.851	54.000	-2.785	AV
2	*	5470.000	39.358	42.122	-14.642	54.000	-2.764	AV

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 17:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Vertical
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(40MHz) at 5510MHz Ant 0+1	

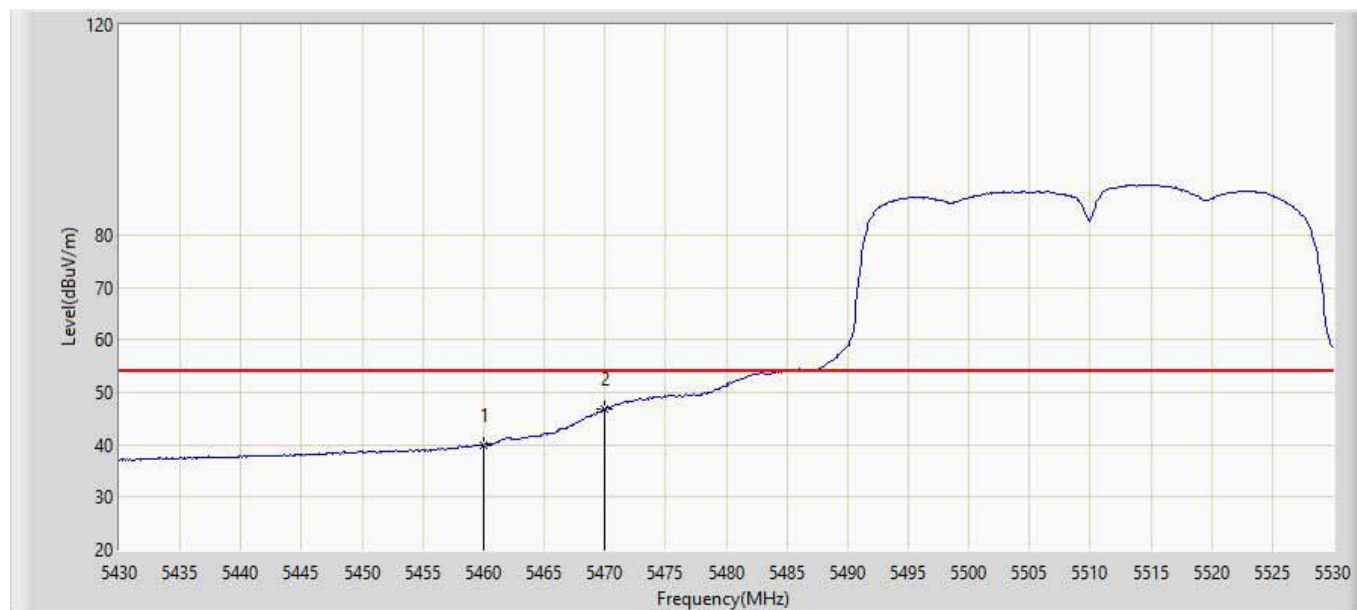


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	60.923	63.708	-13.077	74.000	-2.785	PK
2	*	5464.500	67.741	70.517	-6.259	74.000	-2.776	PK
3		5470.000	67.188	69.952	-6.812	74.000	-2.764	PK

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 17:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Vertical
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(40MHz) at 5510MHz Ant 0+1	

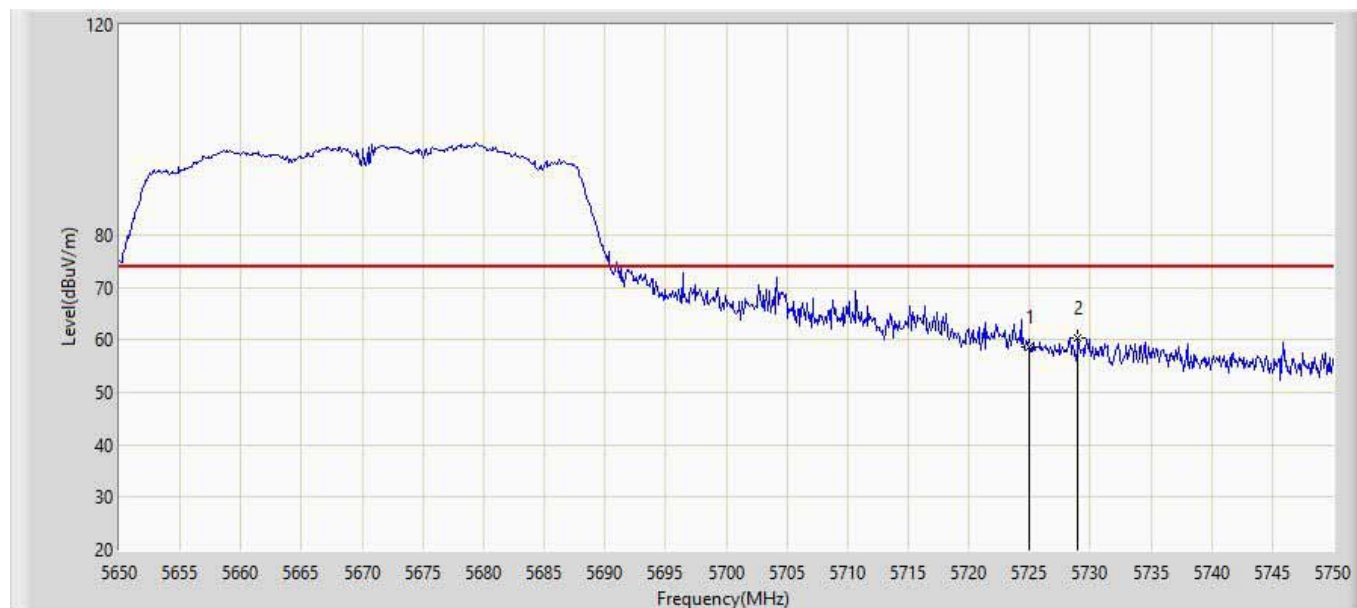


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	39.910	42.695	-14.090	54.000	-2.785	AV
2	*	5470.000	46.776	49.540	-7.224	54.000	-2.764	AV

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 17:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Horizontal
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(40MHz) at 5670MHz Ant 0+1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5725.000	58.581	61.088	-15.419	74.000	-2.507	PK
2	*	5729.000	60.337	62.840	-13.663	74.000	-2.503	PK

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 17:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Horizontal
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(40MHz) at 5670MHz Ant 0+1	

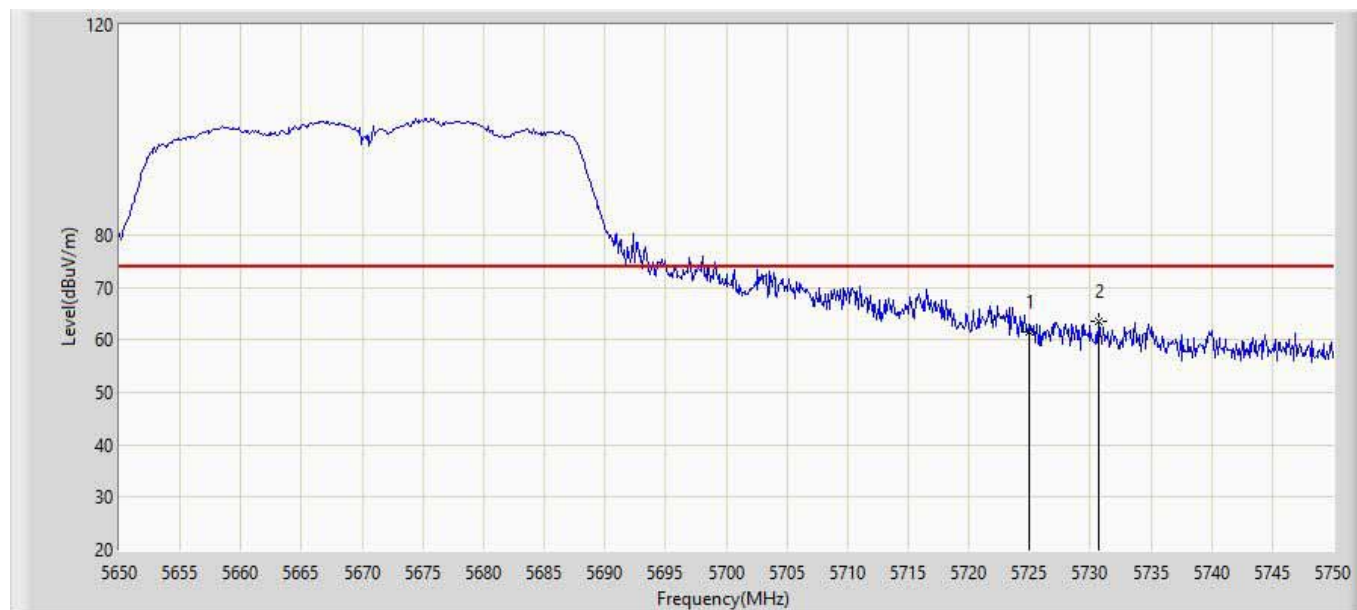


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5725.000	38.685	41.192	-15.315	54.000	-2.507	AV

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 17:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Vertical
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(40MHz) at 5670MHz Ant 0+1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5725.000	61.476	63.983	-12.524	74.000	-2.507	PK
2	*	5730.700	63.641	66.143	-10.359	74.000	-2.502	PK

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 17:50
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Vertical
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(40MHz) at 5670MHz Ant 0+1	

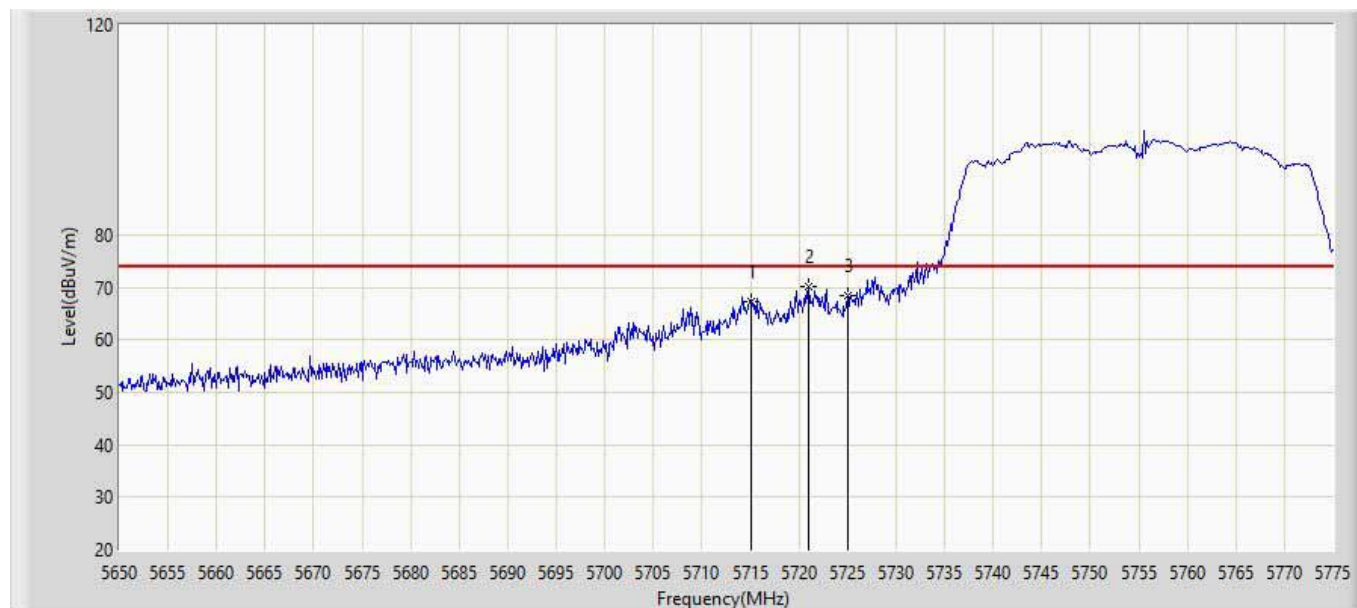


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5725.000	41.039	43.546	-12.961	54.000	-2.507	AV

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 19:02
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Horizontal
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(40MHz) at 5755MHz Ant 0+1	

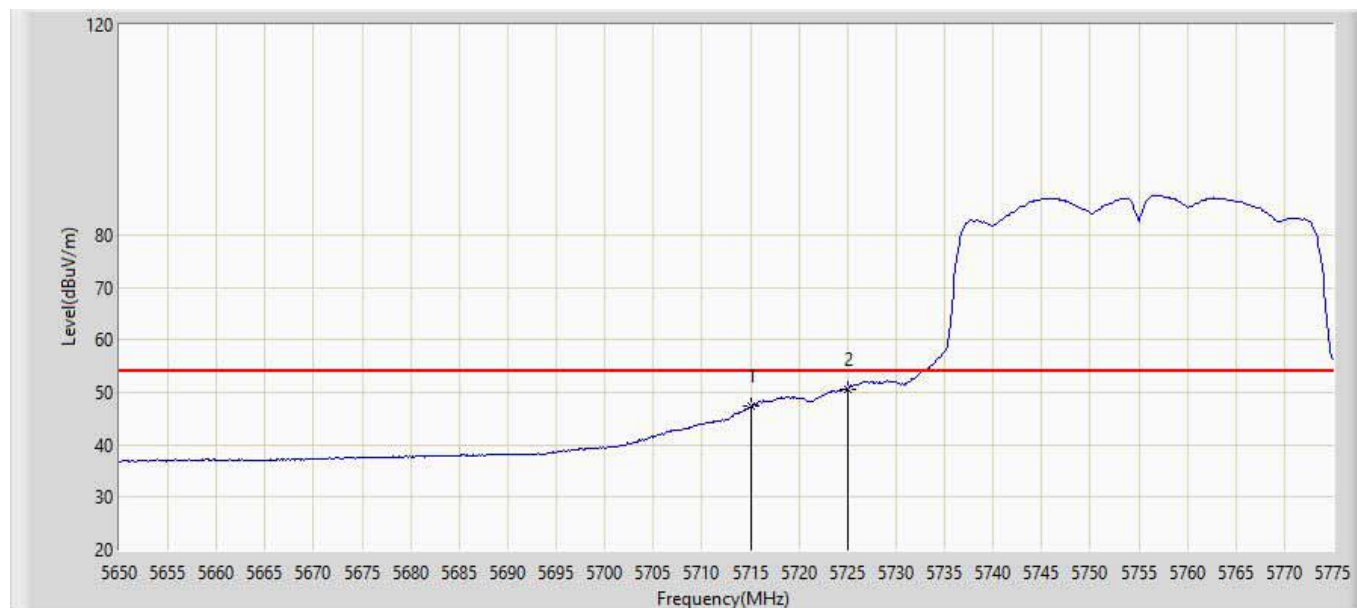


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5715.000	67.215	69.730	-6.785	74.000	-2.515	PK
2	*	5721.000	70.200	72.710	-3.800	74.000	-2.510	PK
3		5725.000	68.474	70.981	-5.526	74.000	-2.507	PK

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 19:12
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Horizontal
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(40MHz) at 5755MHz Ant 0+1	

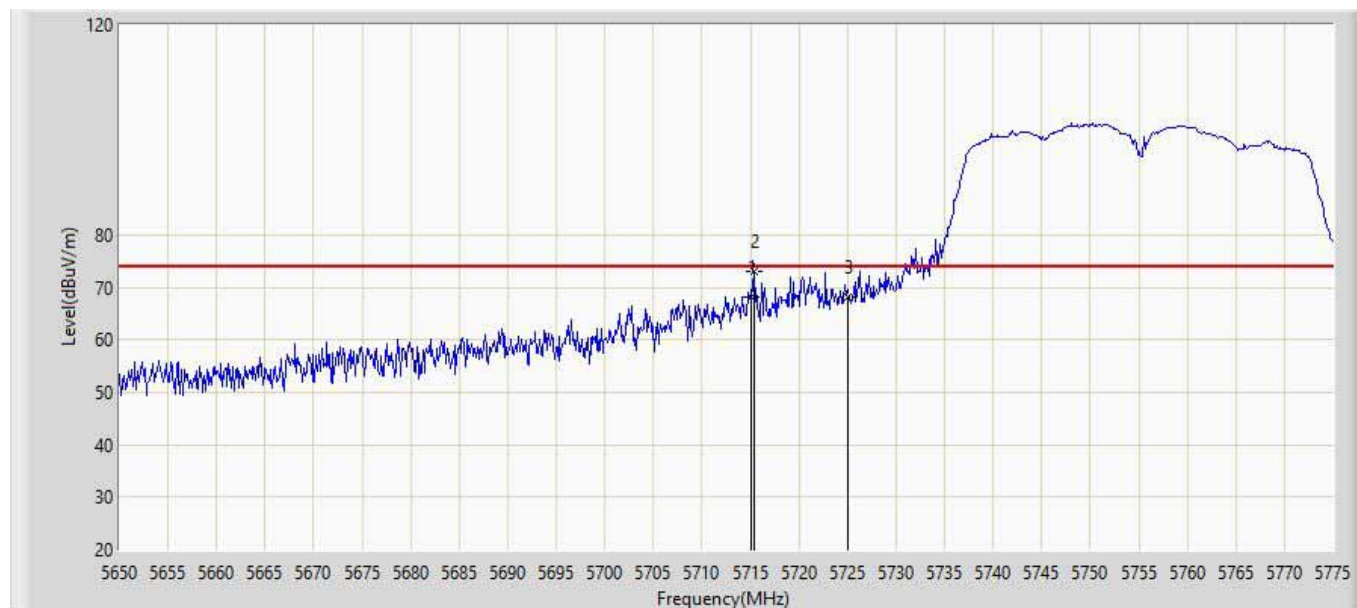


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5715.000	47.364	49.879	-6.636	54.000	-2.515	AV
2	*	5725.000	50.657	53.164	-3.343	54.000	-2.507	AV

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 19:15
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Vertical
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(40MHz) at 5755MHz Ant 0+1	

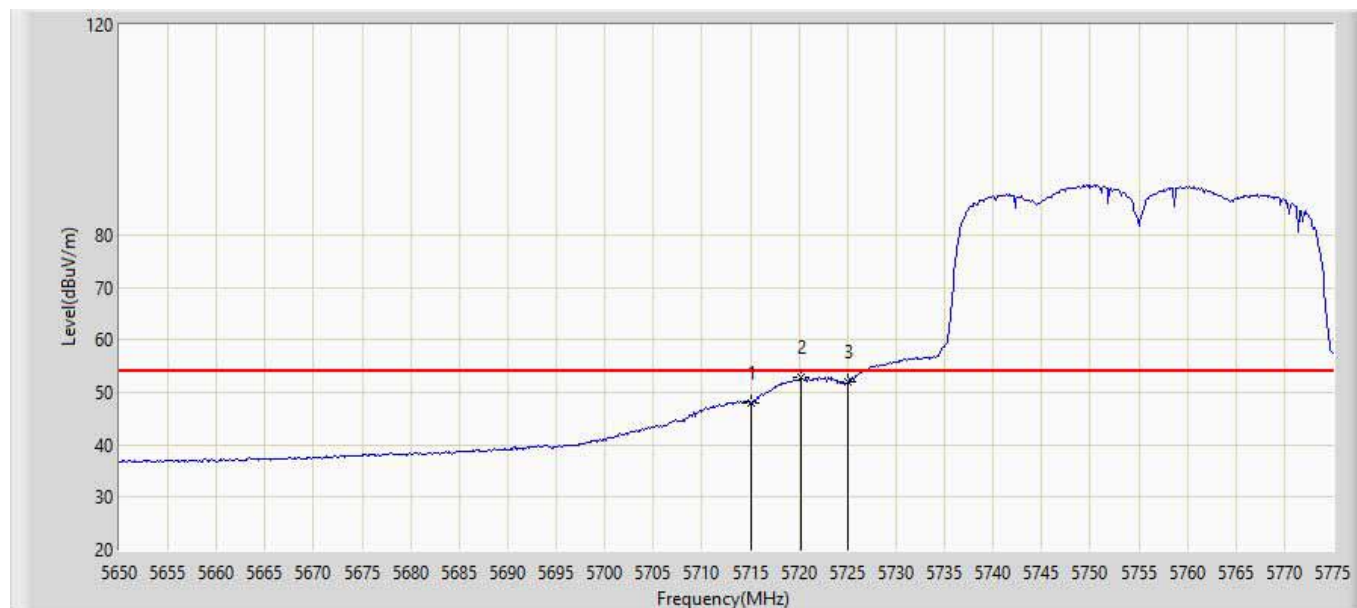


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5715.000	68.219	70.734	-5.781	74.000	-2.515	PK
2	*	5715.375	72.911	75.426	-1.089	74.000	-2.515	PK
3		5725.000	68.049	70.556	-5.951	74.000	-2.507	PK

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 19:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Vertical
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(40MHz) at 5755MHz Ant 0+1	

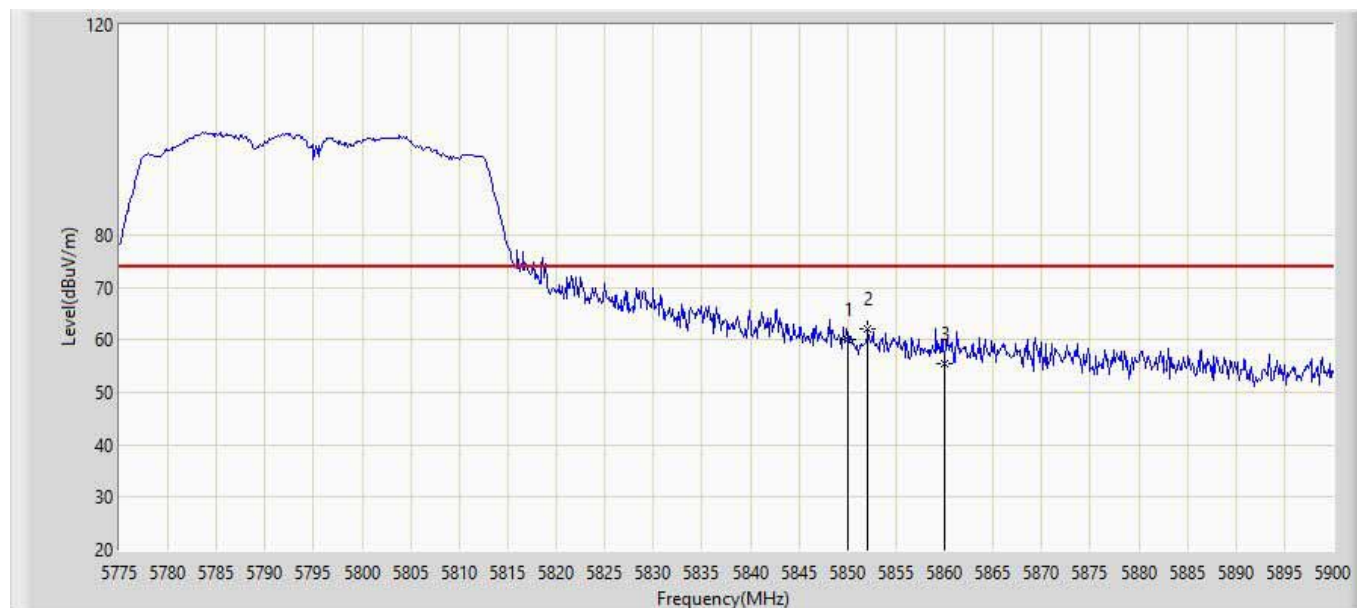


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5715.000	47.952	50.467	-6.048	54.000	-2.515	AV
2	*	5720.250	52.783	55.294	-1.217	54.000	-2.511	AV
3		5725.000	52.024	54.531	-1.976	54.000	-2.507	AV

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 19:30
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Horizontal
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(40MHz) at 5795MHz Ant 0+1	

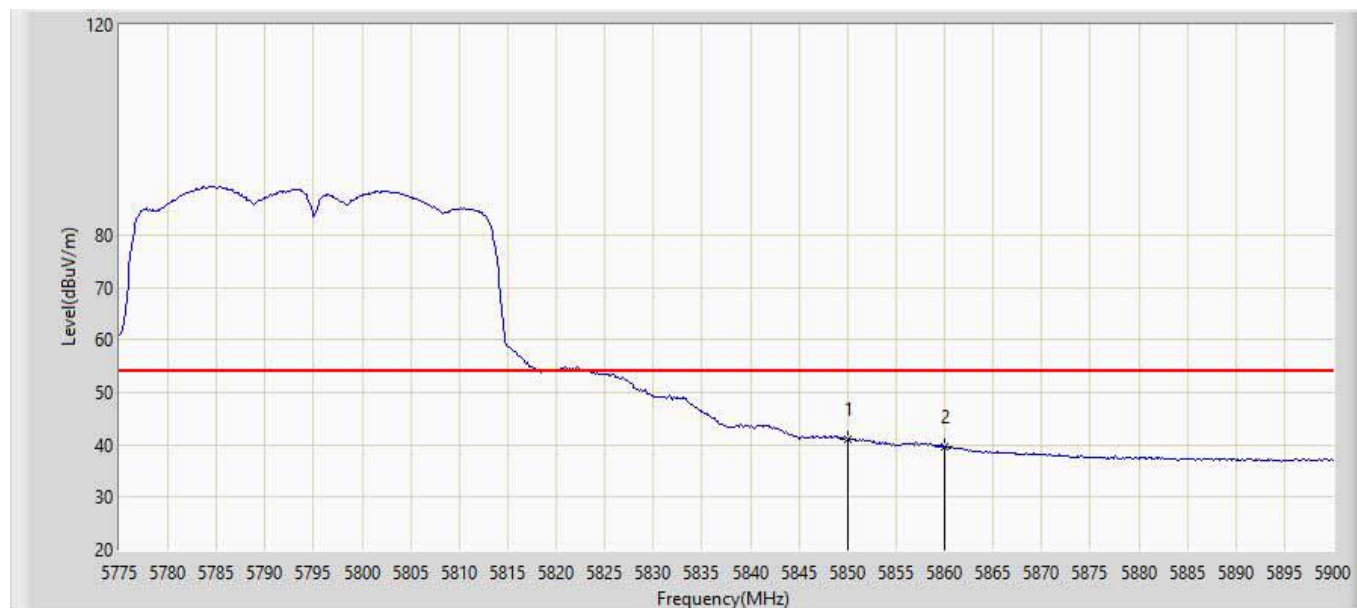


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5850.000	60.086	62.485	-13.914	74.000	-2.399	PK
2	*	5852.125	62.131	64.528	-11.869	74.000	-2.397	PK
3		5860.000	55.557	57.948	-18.443	74.000	-2.391	PK

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 19:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Horizontal
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(40MHz) at 5795MHz Ant 0+1	

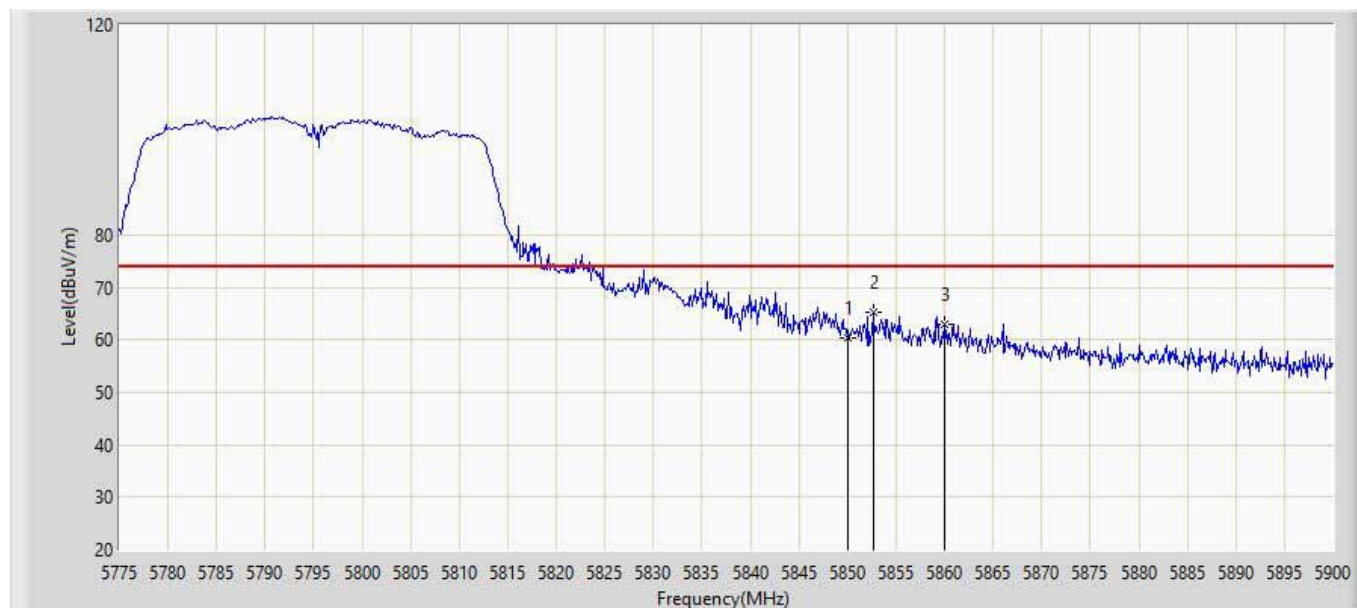


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5850.000	41.159	43.558	-12.841	54.000	-2.399	AV
2		5860.000	39.676	42.067	-14.324	54.000	-2.391	AV

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 19:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Vertical
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(40MHz) at 5795MHz Ant 0+1	

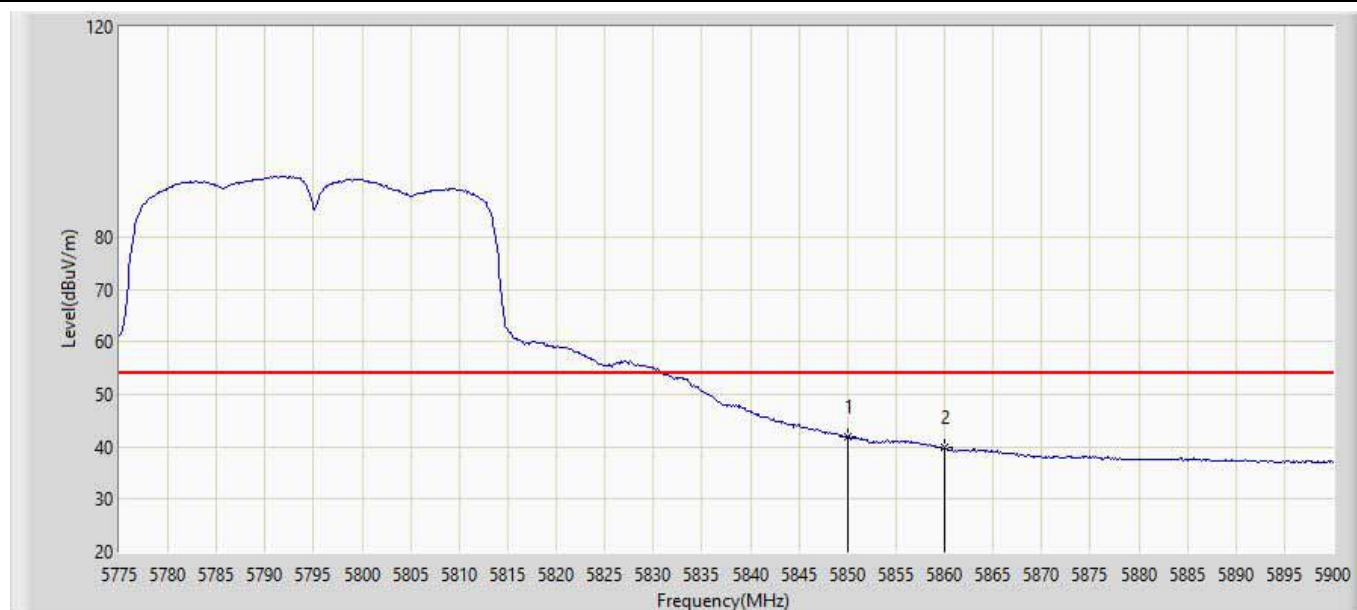


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5850.000	60.221	62.620	-13.779	74.000	-2.399	PK
2	*	5852.625	65.288	67.685	-8.712	74.000	-2.397	PK
3		5860.000	63.039	65.430	-10.961	74.000	-2.391	PK

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 19:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Vertical
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(40MHz) at 5795MHz Ant 0+1	

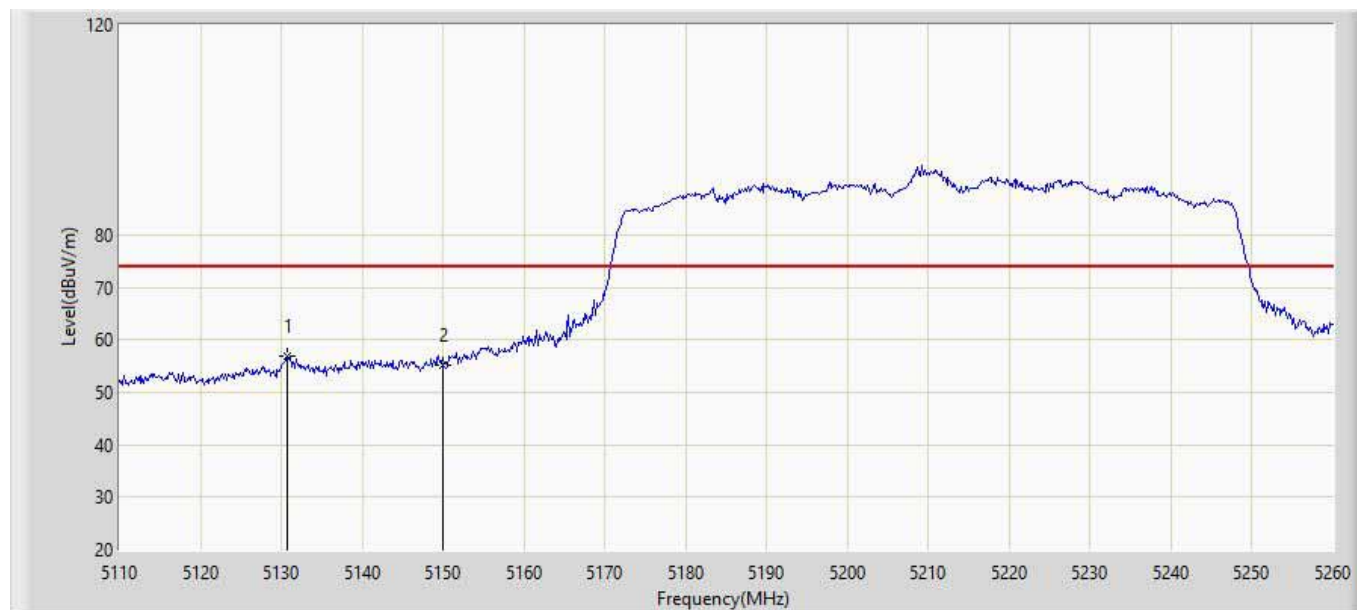


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5850.000	41.780	44.179	-12.220	54.000	-2.399	AV
2		5860.000	39.780	42.171	-14.220	54.000	-2.391	AV

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 19:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Horizontal
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(80MHz) at 5210MHz Ant 0+1	

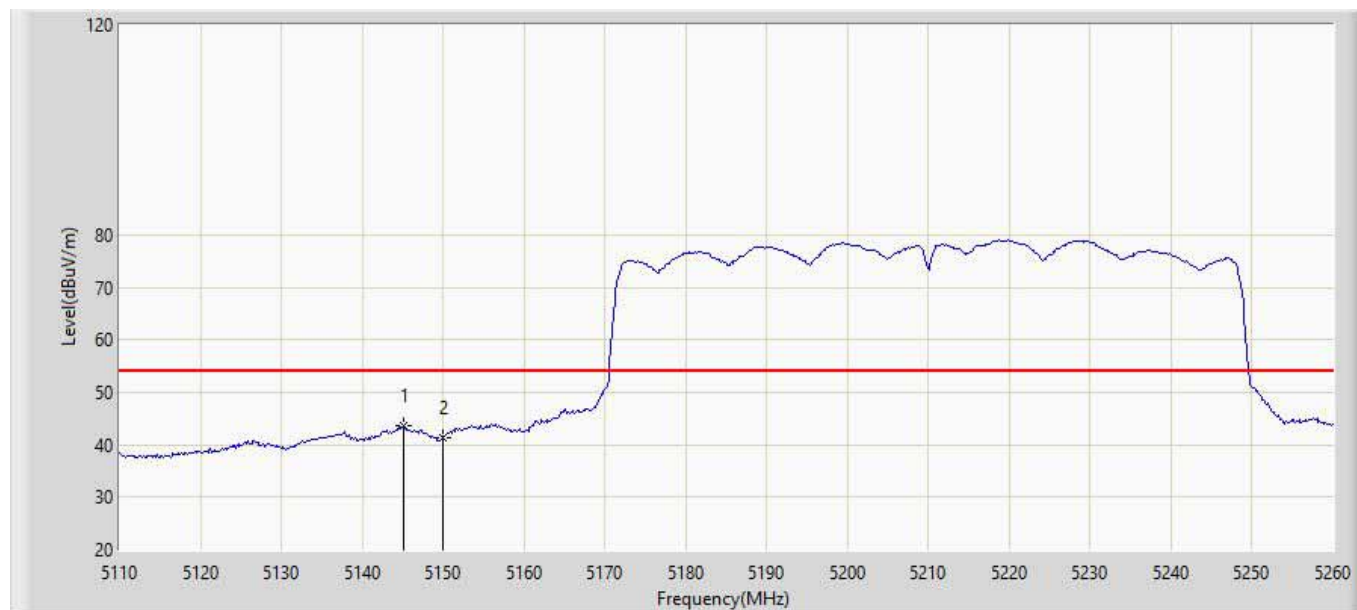


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5130.700	56.943	60.434	-17.057	74.000	-3.491	PK
2		5150.000	55.172	58.621	-18.828	74.000	-3.449	PK

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 19:54
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Horizontal
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(80MHz) at 5210MHz Ant 0+1	

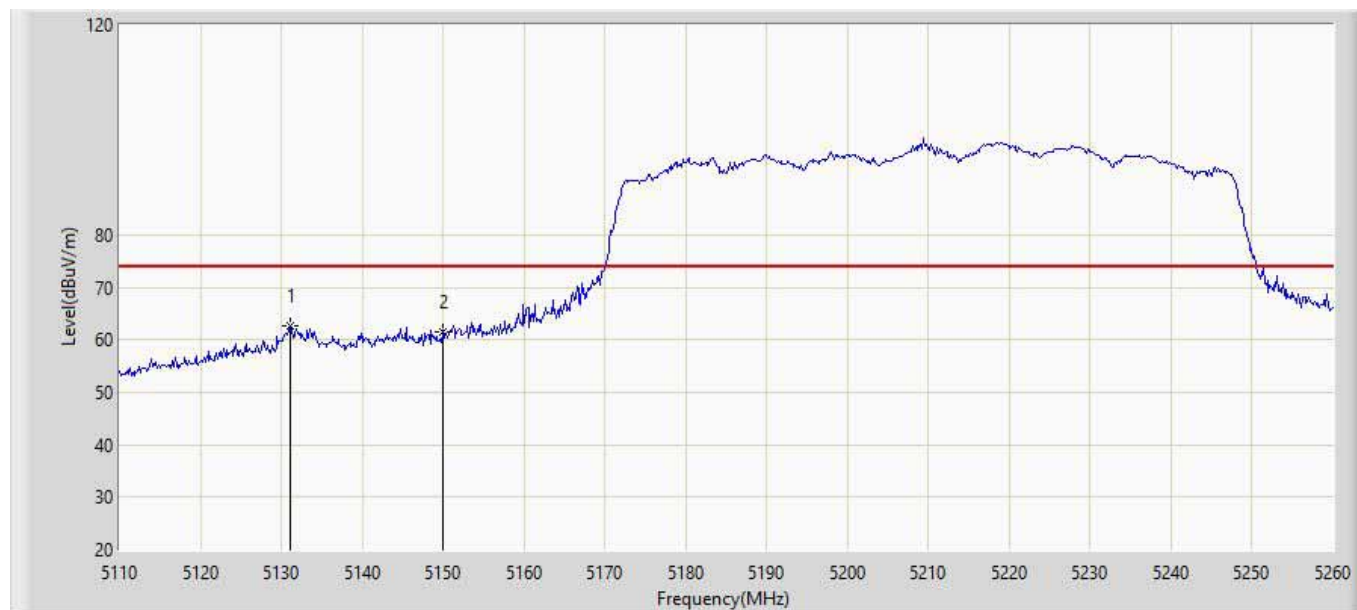


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5145.100	43.505	46.964	-10.495	54.000	-3.459	AV
2		5150.000	41.420	44.869	-12.580	54.000	-3.449	AV

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 19:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Vertical
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(80MHz) at 5210MHz Ant 0+1	

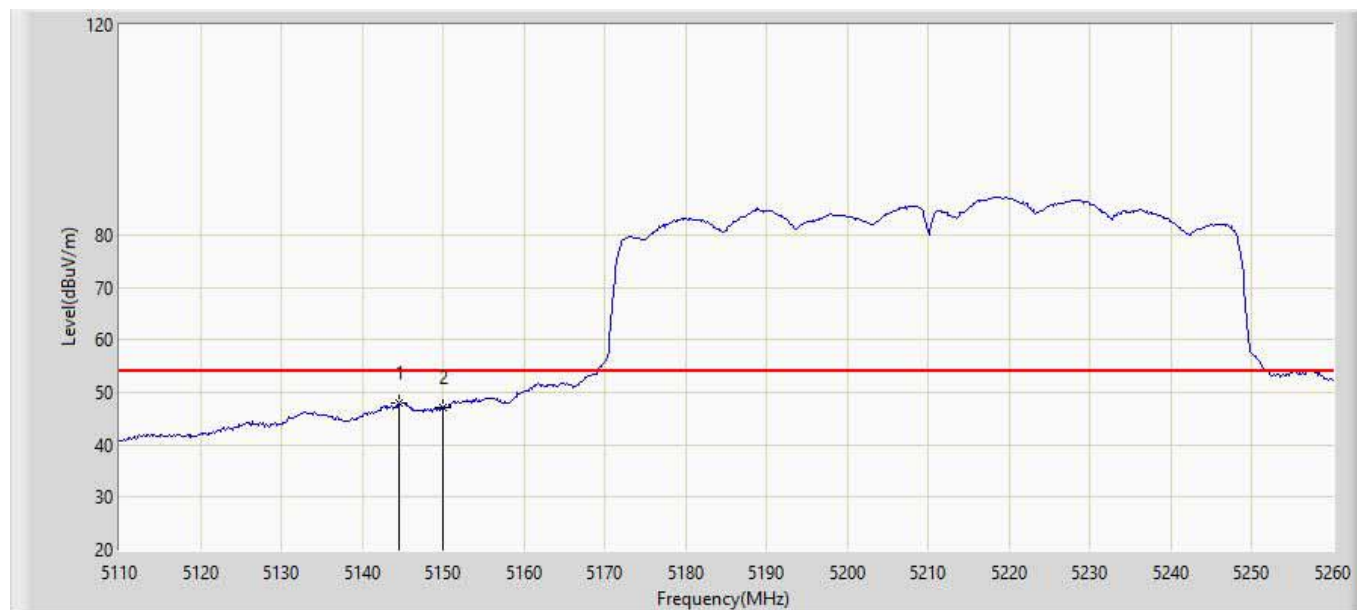


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5131.150	62.690	66.180	-11.310	74.000	-3.490	PK
2		5150.000	61.617	65.066	-12.383	74.000	-3.449	PK

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 19:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Vertical
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(80MHz) at 5210MHz Ant 0+1	

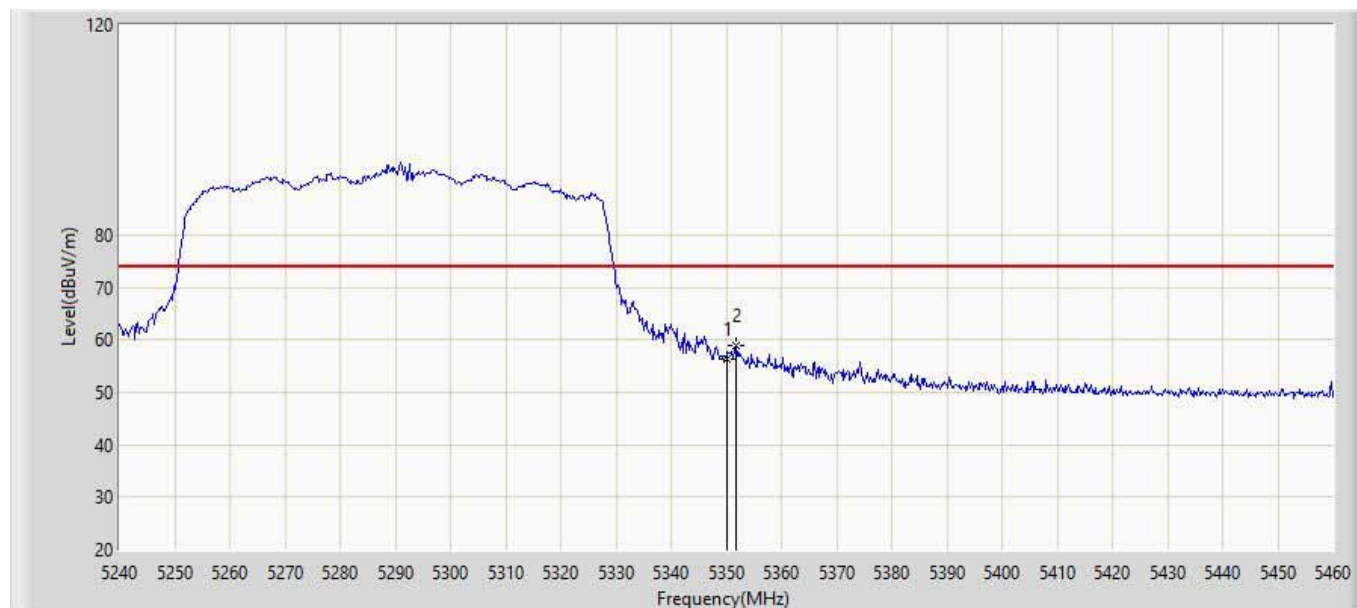


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5144.650	47.932	51.392	-6.068	54.000	-3.460	AV
2		5150.000	46.988	50.437	-7.012	54.000	-3.449	AV

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 19:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Horizontal
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(80MHz) at 5290MHz Ant 0+1	

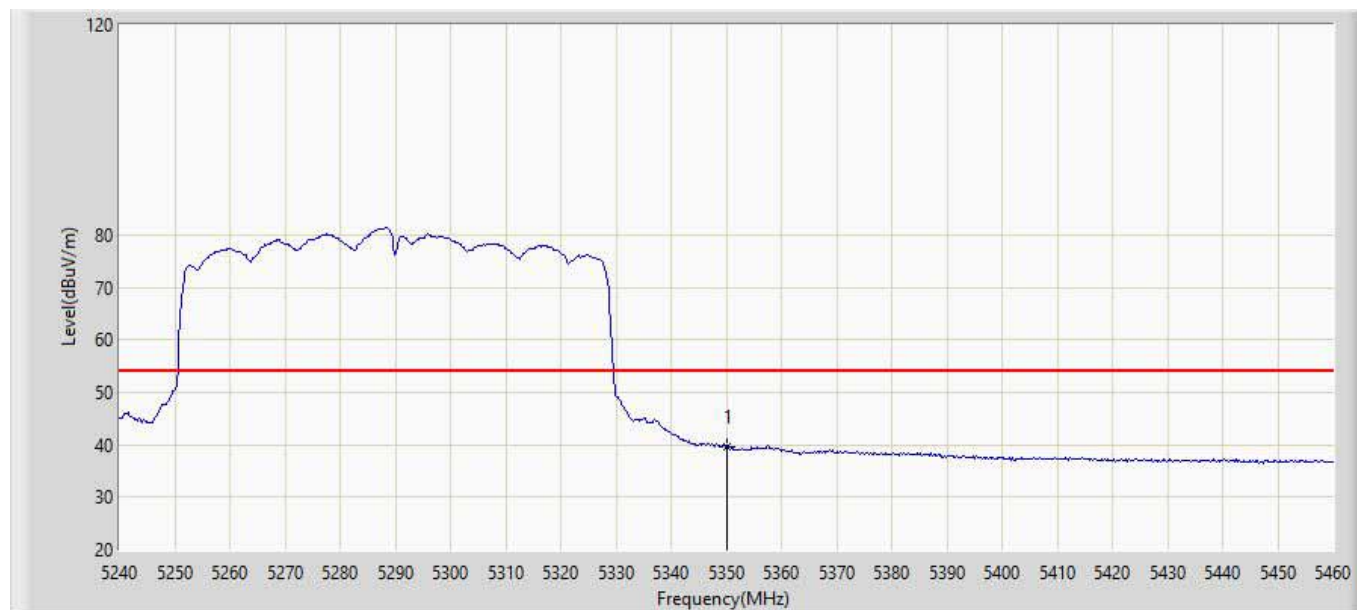


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5350.000	56.200	59.221	-17.800	74.000	-3.021	PK
2	*	5351.760	58.771	61.789	-15.229	74.000	-3.018	PK

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 20:05
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Horizontal
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(80MHz) at 5290MHz Ant 0+1	

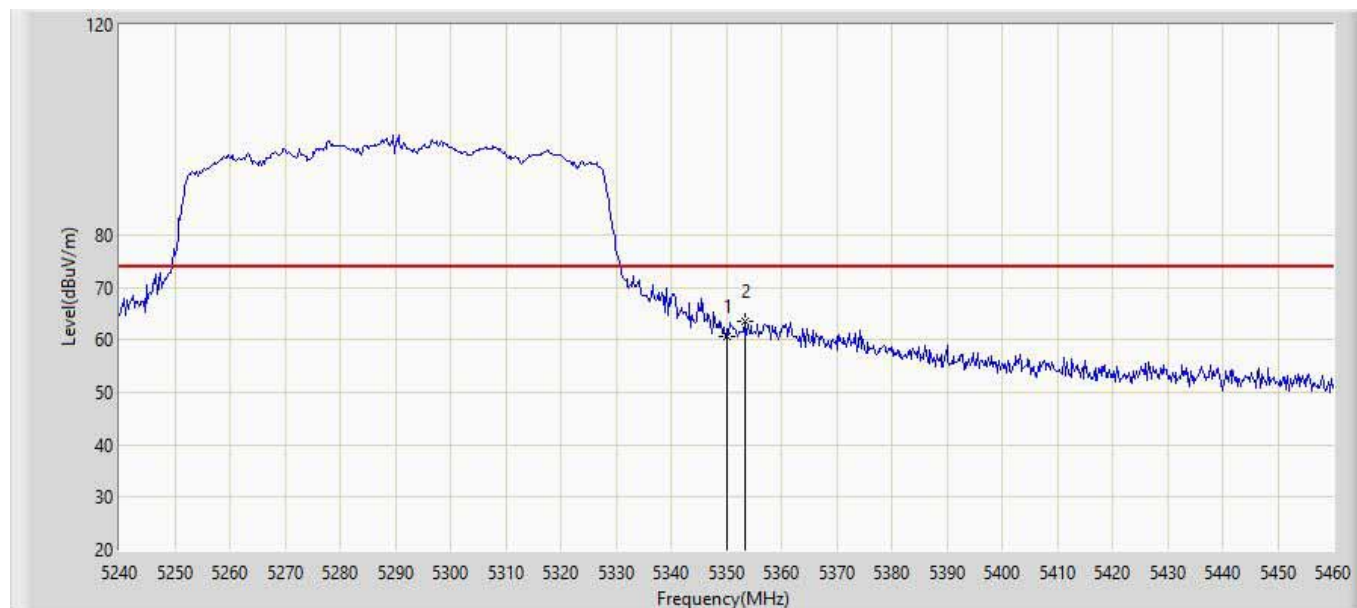


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5350.000	39.597	42.618	-14.403	54.000	-3.021	AV

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 20:05
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Vertical
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(80MHz) at 5290MHz Ant 0+1	

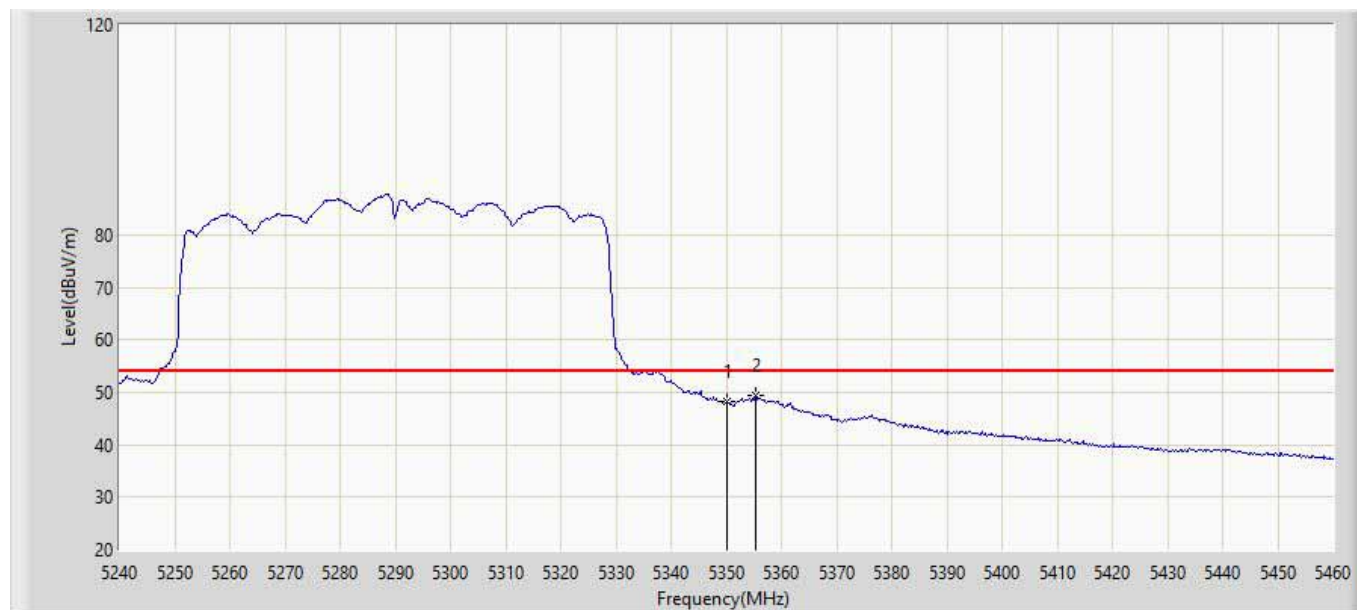


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5350.000	60.697	63.718	-13.303	74.000	-3.021	PK
2	*	5353.300	63.393	66.407	-10.607	74.000	-3.014	PK

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 20:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Vertical
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(80MHz) at 5290MHz Ant 0+1	

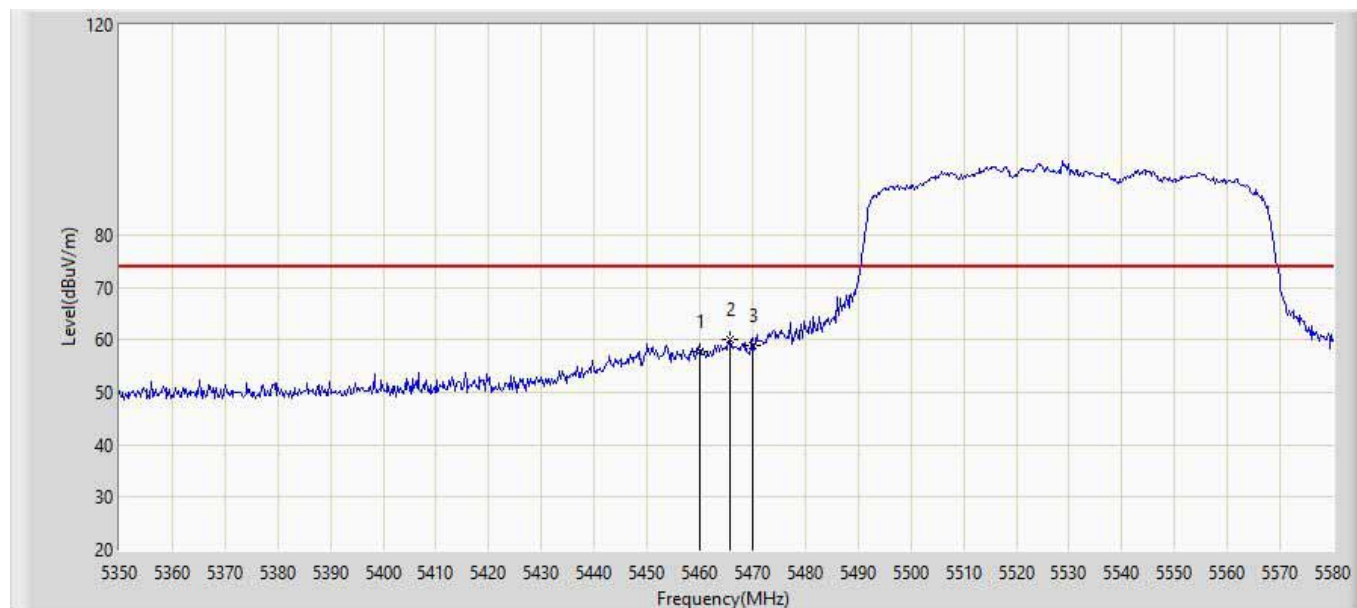


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5350.000	48.245	51.266	-5.755	54.000	-3.021	AV
2	*	5355.280	49.269	52.279	-4.731	54.000	-3.010	AV

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 20:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Horizontal
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(80MHz) at 5530MHz Ant 0+1	

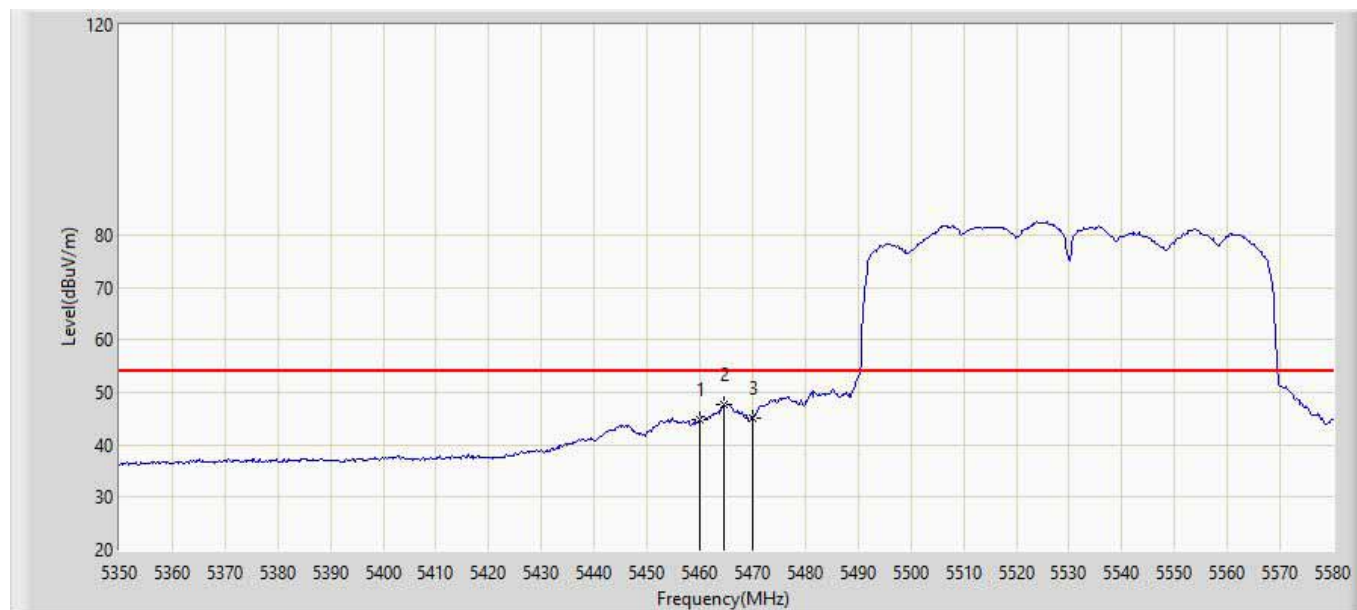


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	57.746	60.531	-16.254	74.000	-2.785	PK
2	*	5465.690	60.026	62.799	-13.974	74.000	-2.773	PK
3		5470.000	58.923	61.687	-15.077	74.000	-2.764	PK

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 20:13
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Horizontal
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(80MHz) at 5530MHz Ant 0+1	

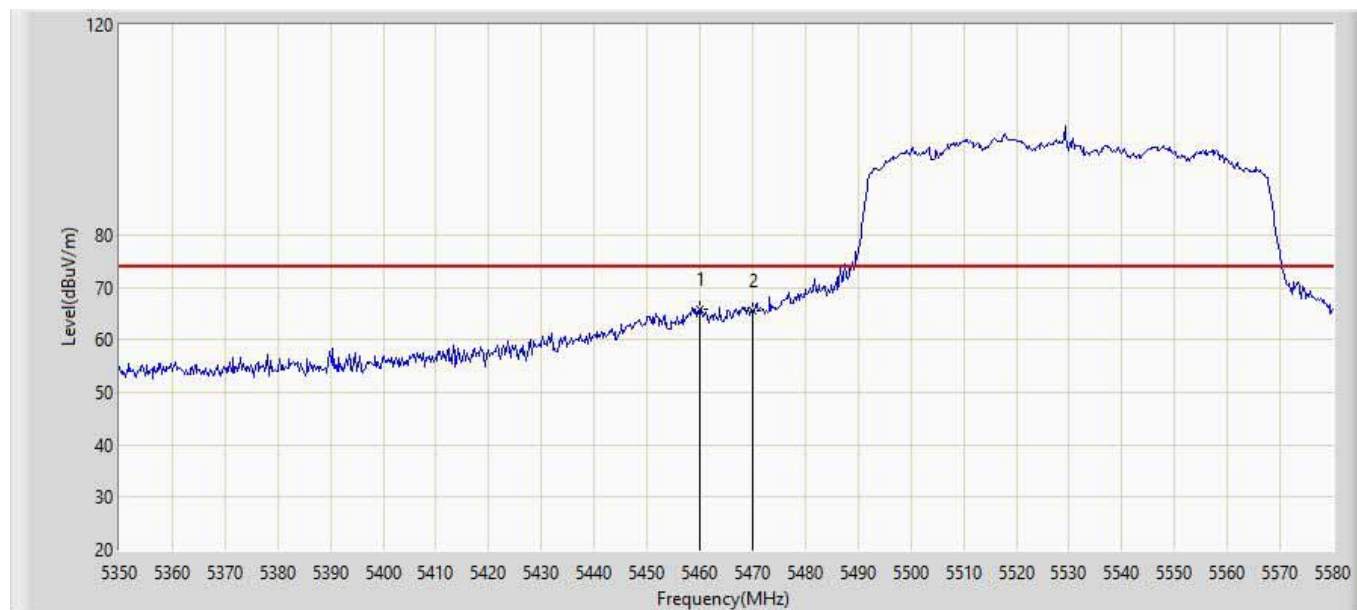


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	44.725	47.510	-9.275	54.000	-2.785	AV
2	*	5464.540	47.652	50.428	-6.348	54.000	-2.776	AV
3		5470.000	45.149	47.913	-8.851	54.000	-2.764	AV

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 20:13
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Vertical
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(80MHz) at 5530MHz Ant 0+1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5460.000	65.808	68.593	-8.192	74.000	-2.785	PK
2		5470.000	65.394	68.158	-8.606	74.000	-2.764	PK

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 20:16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Vertical
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(80MHz) at 5530MHz Ant 0+1	

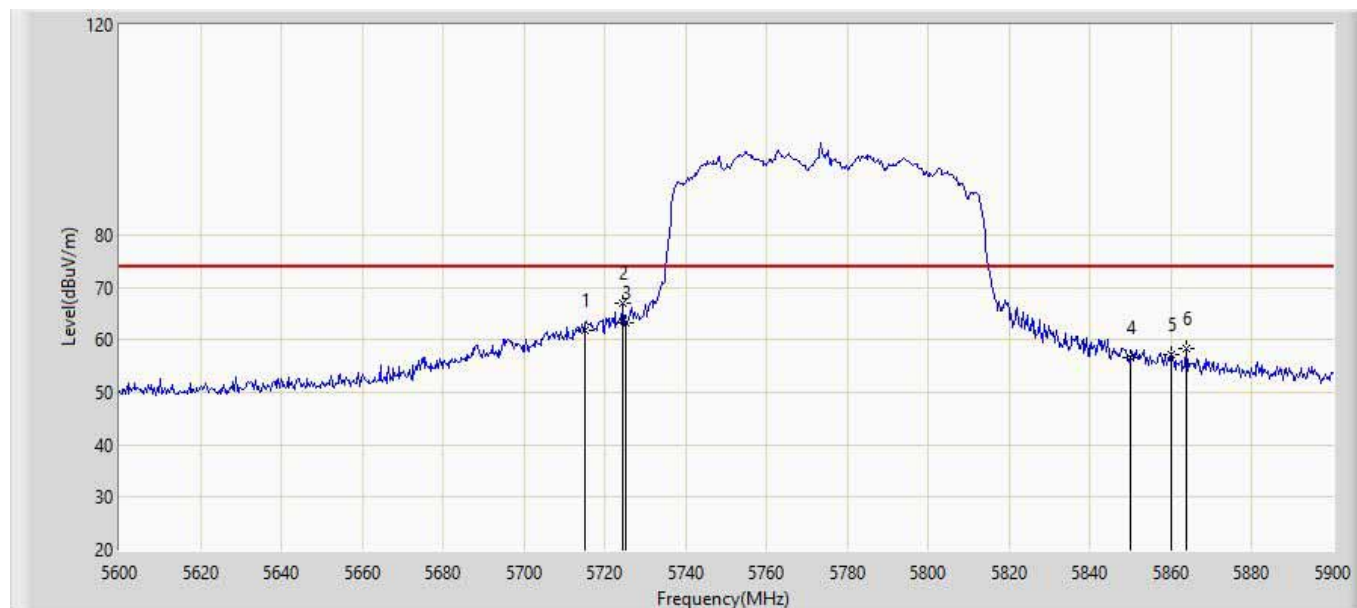


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5460.000	52.072	54.857	-1.928	54.000	-2.785	AV
2		5470.000	51.710	54.474	-2.290	54.000	-2.764	AV

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 20:18
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Horizontal
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(80MHz) at 5775MHz Ant 0+1	

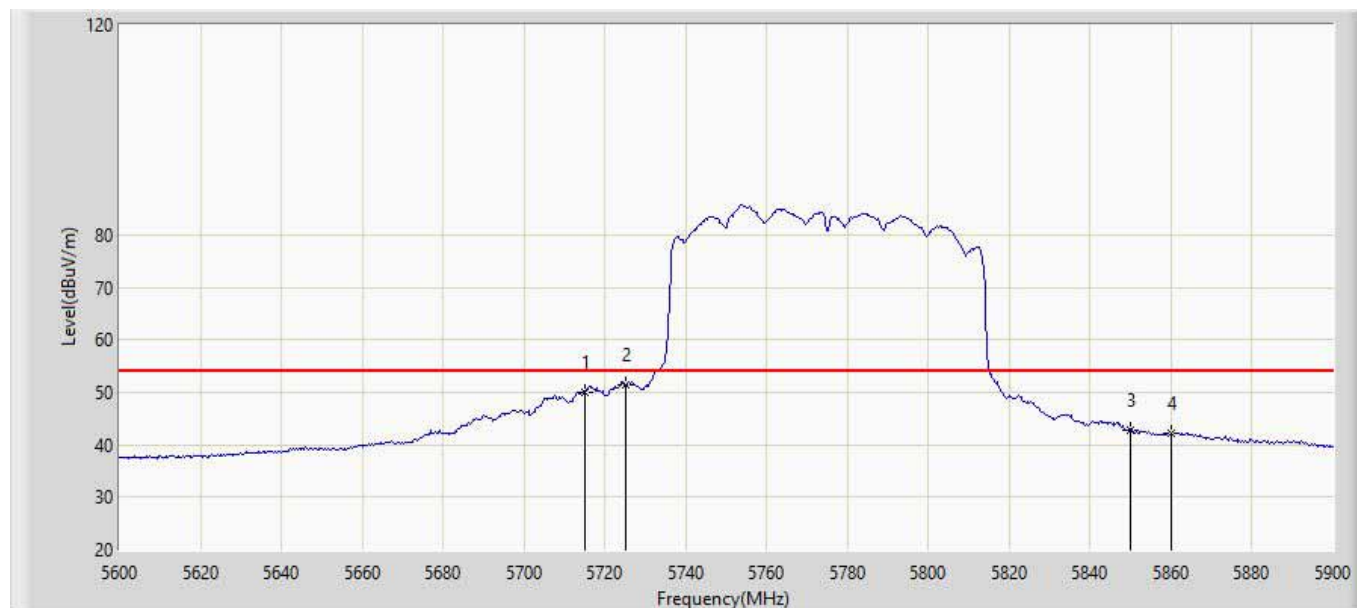


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5715.000	61.808	64.323	-12.192	74.000	-2.515	PK
2	*	5724.500	66.911	69.418	-7.089	74.000	-2.507	PK
3		5725.000	63.336	65.843	-10.664	74.000	-2.507	PK
4		5850.000	56.553	58.952	-17.447	74.000	-2.399	PK
5		5860.000	57.085	59.476	-16.915	74.000	-2.391	PK
6		5863.700	58.453	60.840	-15.547	74.000	-2.388	PK

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 20:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Horizontal
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(80MHz) at 5775MHz Ant 0+1	

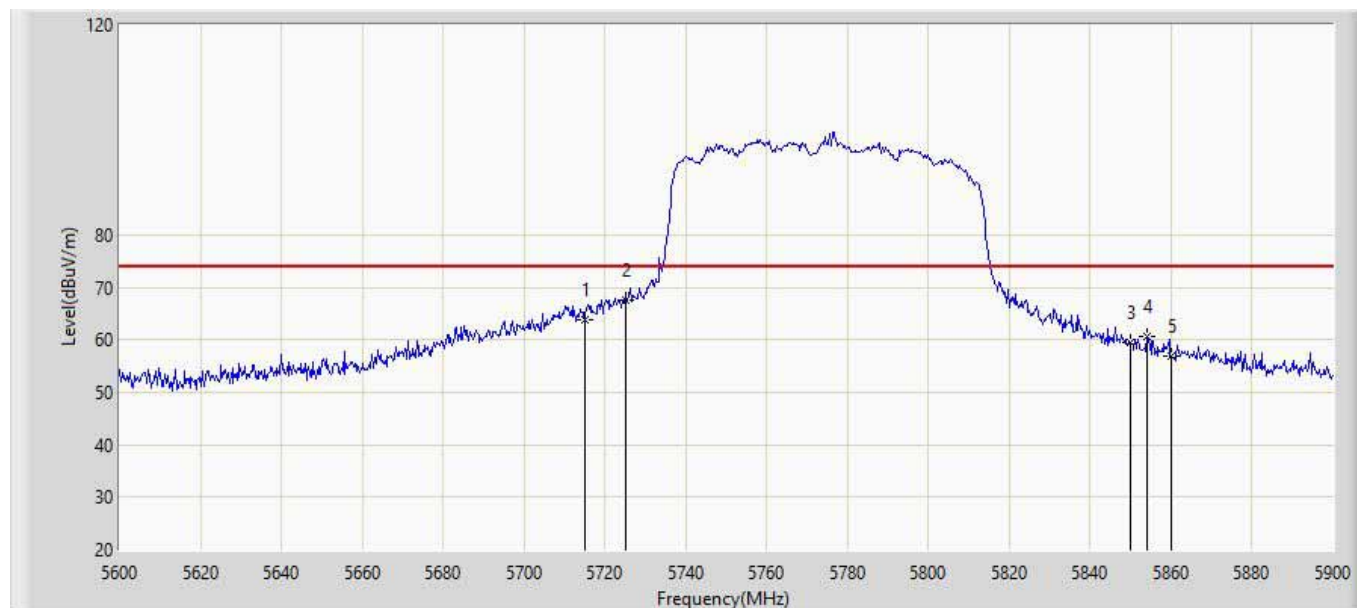


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5715.000	49.959	52.474	-4.041	54.000	-2.515	AV
2	*	5725.000	51.530	54.037	-2.470	54.000	-2.507	AV
3		5850.000	42.843	45.242	-11.157	54.000	-2.399	AV
4		5860.000	42.091	44.482	-11.909	54.000	-2.391	AV

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 20:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Vertical
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(80MHz) at 5775MHz Ant 0+1	

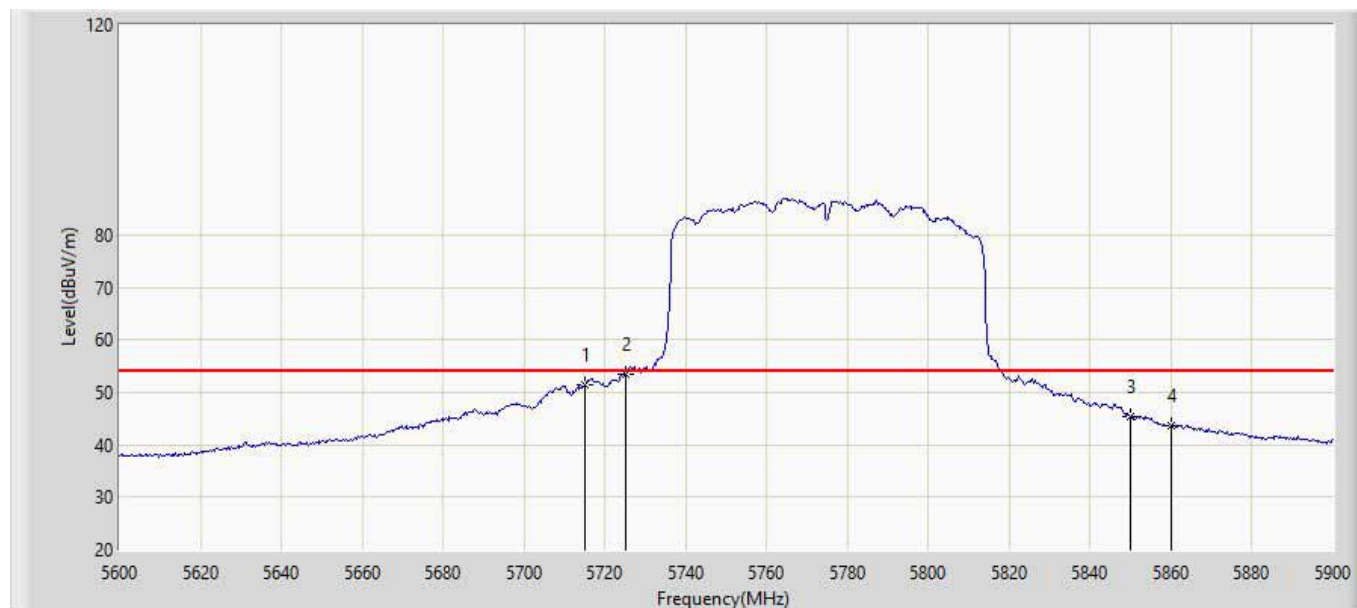


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5715.000	63.903	66.418	-10.097	74.000	-2.515	PK
2	*	5725.000	67.692	70.199	-6.308	74.000	-2.507	PK
3		5850.000	59.417	61.816	-14.583	74.000	-2.399	PK
4		5854.100	60.770	63.166	-13.230	74.000	-2.396	PK
5		5860.000	56.853	59.244	-17.147	74.000	-2.391	PK

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)



Site: AC102	Time: 2016/07/21 - 20:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe:N/A	Polarity: Vertical
EUT: QCNFA344A	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11ac(80MHz) at 5775MHz Ant 0+1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5715.000	51.348	53.863	-2.652	54.000	-2.515	AV
2	*	5725.000	53.352	55.859	-0.648	54.000	-2.507	AV
3		5850.000	45.289	47.688	-8.711	54.000	-2.399	AV
4		5860.000	43.663	46.054	-10.337	54.000	-2.391	AV

Note 1: Measure Level = Reading Level + Factor. (Factor= Antenna Factor + Cable Loss – Amplifier)

--End--