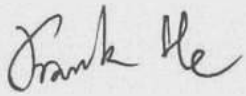
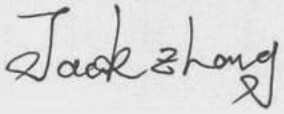
DEKRA Testing and Certification (Suzhou) Co., Ltd.
No.99 Hongye Rd., Suzhou Industrial Park, Suzhou, 215006, Jiangsu, China
TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098

Test report No:
2090075R-RF-US-P09V01

FCC&ISED TEST REPORT

Product Name	Barcode Scanner
Trademark	Honeywell
Model and /or type reference	8690i
FCC ID	HD5-8690A
IC	1693B-8690A
Applicant´s name / address	HONEYWELL INTERNATIONAL INC Honeywell Safety and Productivity Solutions 9680 OLD BAILES RD FORT MILL SC 29707-7539,USA
Test method requested, standard	FCC CFR Title 47 Part 15 Subpart E Section 15.407 ANSI C63.10: 2013 KDB789033 D02v02r01 RSS-Gen Issue 5 / RSS-247 Issue 2
Verdict Summary	IN COMPLIANCE
Documented By (name / position & signature)	Kitty Li/Project Assistant 
Reviewed by (name / position & signature)	Frank He/ Technical Supervisor 
Approved by (name / position & signature)	Jack Zhang/ Supervisor 
Date of issue	2020-10-13
Report template No	Template_FCC 15.247-RF-V1.0

INDEX

page

COMPETENCES AND GUARANTEES

DEKRA is a testing laboratory competent to carry out the tests described in this report.
In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

IMPORTANT: No parts of this report may be reproduced or quoted out of context, in any form or by any means, except in full, without the previous written permission of DEKRA.

GENERAL CONDITIONS

Test Location	No. 99, Hongye Road, Suzhou Industrial Park Suzhou, 215006, P.R. China
Date(receive sample)	Sept. 02, 2020
Date (start test)	Sept. 09, 2020
Date (finish test)	Sept. 28, 2020

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or Competent Authorities.
3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA.
4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA.

ENVIRONMENTAL CONDITIONS

The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment. The climatic conditions during the tests were within the following limits:

Ambient temperature	15 °C – 35 °C
Relative Humidity air	30% - 60%

If explicitly required in the basic standard or applied product / product family standard the climatic values are recorded and documented separately in this test report.

POSSIBLE TEST CASE VERDICTS

Test case does not apply to test object	N/A
Test object does meet requirement	P (Pass) / PASS
Test object does not meet requirement	F (Fail) / FAIL
Not measured	N/M

ABBREVIATIONS

For the purposes of the present document, the following abbreviations apply:

EUT : Equipment Under Test
QP : Quasi-Peak
CAV : CISPR Average
AV : Average
CDN : Coupling Decoupling Network
SAC : Semi-Anechoic Chamber
OATS : Open Area Test Site
BW : Bandwidth
AM : Amplitude Modulation
PM : Pulse Modulation
HCP : Horizontal Coupling Plane
VCP : Vertical Coupling Plane
U_N : Nominal voltage
*T*x : Transmitter
*R*x : Receiver
N/A : Not Applicable
N/M : Not Measured

DOCUMENT HISTORY

Report No.	Version	Description	Issued Date
2090075R-RF-US-P09V01	V1.0	Initial issue of report.	2020-10-13

REMARKS AND COMMENTS

1. The equipment under test (EUT) does meet the essential requirements of the stated standard(s)/test(s).
2. These test results on a sample of the device are for the purpose of demonstrating Compliance with FCC 15.247.
3. The measurement result is considered in conformance with the requirement if it is within the prescribed limit, It is not necessary to account the uncertainty associated with the measurement result.
4. The test results presented in this report relate only to the object tested.
5. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification (Suzhou) Co., Ltd.
6. This report will not be used for social proof function in China market.
7. DEKRA declines any responsibility with the following test data provided by customer that may affect the validity of result:
   - Chapter 1.1 General Description of the Item(s);
   - Chapter 1.2 Antenna Informaion;
   - Chapter 1.3 Data Rate;
   - Chapter 1.4 Channel List;

USED EQUIPMENT

AC Power Line Conducted Emission / TR1(Chamber details)

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
EMI Test Receiver	R&S	ESCI	100906	2020.04.20	2021.04.19
Two-Line V-Network	R&S	ENV216	101190	2019.12.28	2020.12.27
Two-Line V-Network	R&S	ENV216	101044	2019.12.28	2020.12.27
Current Probe	R&S	EZ-17	100678	2020.03.12	2021.04.11
50ohm Termination	SHX	TF2	07081402	2020.09.23	2021.09.22
50ohm Termination	SHX	TF2	07081403	2020.09.23	2021.09.22
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-8S	TR1-TH	2020.08.13	2021.08.12
Coaxial Cable	Suhner	RG 223	TR1-C1	2020.08.13	2021.08.12
Coaxial Cable	Suhner	RG 223	TR1-C2	2020.08.13	2021.08.12
DEKRA test software	N/A	N/A	N/A	N/A	N/A

RF conducted test / TR8(Chamber details)

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2020.08.15	2021.08.14
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2020.04.17	2021.04.16
MXA Signal Anlyzer	Keysight	N9020A	MY56060147	2020.08.15	2021.08.14
Temperature/Humidity Meter	RTS	RTS-8S	RF08	2020.08.13	2021.08.12
DEKRA test software	N/A	N/A	N/A	N/A	N/A

Radiated Emission(30MHz-1GHz) / AC3(Chamber details)

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
EMI Test Receiver	R&S	ESCI	100573	2020.03.03	2021.03.02
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2020.08.19	2021.08.18
Temperature/Humidity Meter	RTS	RTS-8S	AC2-TH	2020.08.13	2021.08.12
Coaxial Cable	Huber+Suhner	RG 214	AC2-C	2020.04.05	2021.04.04
DEKRA test software	N/A	N/A	N/A	N/A	N/A

Radiated Emission / AC5(1GHz-40GHz)(Chamber details)

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
EMI Receiver	Agilent	N9038A	MY51210196	2020.05.08	2021.05.07
DRG Horn	ETS-Lindgren	3117	00123988	2020.05.06	2021.05.05
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170D	750	2020.05.06	2021.05.05
Pre-Amplifier	Schwarzbeck	BBV 9721	9721-024	2020.01.22	2021.01.21
Temperature/Humidity Meter	Zhichen	ZC1-2	AC5-TH	2020.08.13	2021.08.12
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2020.04.05	2021.04.04
DEKRA test software	N/A	N/A	N/A	N/A	N/A

UNCERTAINTY

Uncertainties have been calculated according to the DEKRA internal document. The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

Test item	Uncertainty
AC Power Line Conducted Emission	± 2.92 dB
Peak Power Output	± 1.13 dB
Radiated Emission(30MHz~1GHz)	Horizontal: 30MHz~200MHz: 4.60 dB 200MHz~1GHz: 4.10 dB Vertical: 30MHz~200MHz: 4.80 dB 200MHz~1GHz: 4.10 dB
Radiated Emission(1GHz~40GHz)	Horizontal: 1GHz~18GHz: 5.00 dB Vertical: 1GHz~18GHz: 4.80 dB Horizontal: 18GHz~40GHz: 4.70 dB Vertical: 18GHz~40GHz: 4.60 dB
RF antenna conducted test	± 1.13 dB
Radiated Emission Band Edge	± 5.00 dB
DTS Bandwidth	± 279 Hz
Occupied Bandwidth	± 279 Hz
Power Density	± 1.13 dB
Frequency Stability	±100Hz

1 GENERAL INFORMATION

1.1 General Description of the Item(s)

Product Name.....:	Barcode Scanner
Model No.....:	8690i
Trademark.....:	Honeywell
FCC ID.....:	HD5-8690A
IC .....:	1693B-8690A
Manufacturer.....:	1.HONEYWELL INTERNATIONAL INC Honeywell Safety and Productivity Solutions 2.Metro(Suzhou)Technologies Co.,Ltd
Manufacturer address.....:	1. 9680 OLD BAILES RD FORT MILL SC 29707-7539,USA 2. No.221 Xinghai street China-Singapore Suzhou Industrial Park

Wireless specifiction .....:	WIFI			
Operating frequency range(s).....:	☒	5150MHz~5250MHz	☐	Outdoor AP
			☐	Indoor AP
			☐	Fixed point-to-point AP
			☒	Mobile and Portable Client
	☒	5250MHz~5350MHz		
	☒	5500MHz~5600MHz; 5650~5725MHz		
	☒	5725MHz~5850MHz		
Type of modulation .....:	OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM			
Data Rate.....:	802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 300Mbps 802.11ac: up to 433.3Mbps			
Number of channel .....:	802.11a/n/ac (20MHz): 25 802.11n/ac (40MHz): 12 802.11ac (80MHz): 6			

Rated power supply.....:	Voltage and Frequency	
	☐	AC: 220 - 240 V, 50/60 Hz
	☐	AC: 100 - 240 V, 50/60 Hz
	☐	DC: 12 - 24 Vdc
	☐	Battery:
	☒	Battery: 3.7 V
Mounting position.....:	☐	Table top equipment
	☐	Wall/Ceiling mounted equipment
	☐	Floor standing equipment
	☒	Hand-held equipment
	☒	Other: Wearable equipment

1.2 Antenna Information

Antenna model / type number.....:	N/A			
Antenna serial number.....:	N/A			
Antenna Delivery .....:	☒	1TX + 1RX		
	☐	2TX + 2RX		
	☐	Others:……		
Antenna technology.....:	☒	SISO		
	☐	MIMO	☐	Basic
			☐	CDD
			☐	Sectorized
			☐	Beam-forming
Antenna Type .....:	☐	External	☐	Dipole
			☐	Sectorized
	☒	Internal	☐	PIFA
			☒	PCB
			☐	Metal Antenna
Antenna Gain.....:	2.58 dBi			

1.3 Data Rate

IEEE 802.11a/n

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	14.2	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

Note 1: The blue form is the maximum power data rate.
Note 2: The EUT supports one spatial streams.

IEEE 802.11ac

Spatial Streams (Note1)	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

Note 1: The blue form is the maximum power data rate.
Note 2: The EUT supports one spatial streams.

1.4 Channel List

IEEE 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	5260MHz	56	5280 MHz	60	5300 MHz	64	5320 MHz
100	5500MHz	104	5520 MHz	108	5540 MHz	112	5550 MHz
116	5580MHz	120	5600MHz	124	5620MHz	128	5640MHz
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	5825MHz	--	--	--	--	--	--

IEEE 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

IEEE 802.11ac(80MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz	106	5530MHz	122	5610 MHz
138	5690 MHz	155	5775 MHz	--	--	--	--

Note: The General Description of the Item, antenna information, Data Rate and Channel List in clause 1 are provided and confirmed by the client.

2 DESCRIPTION OF TEST SETUP

2.1 Operating mode(s) used for tests

During the tests the following operating mode(s) has(have) been used.

Test Mode	Mode 1: Transmit by 802.11a
	Mode 2: Transmit by 802.11n(20MHz)
	Mode 3: Transmit by 802.11n(40MHz)
	Mode 4: Transmit by 802.11ac(20MHz)
	Mode 5: Transmit by 802.11ac(40MHz)
	Mode 6: Transmit by 802.11ac(80MHz)
	Mode 7: Simultaneous transmission.

2.2 Support / Auxiliary equipment / unit / Test software for the EUT

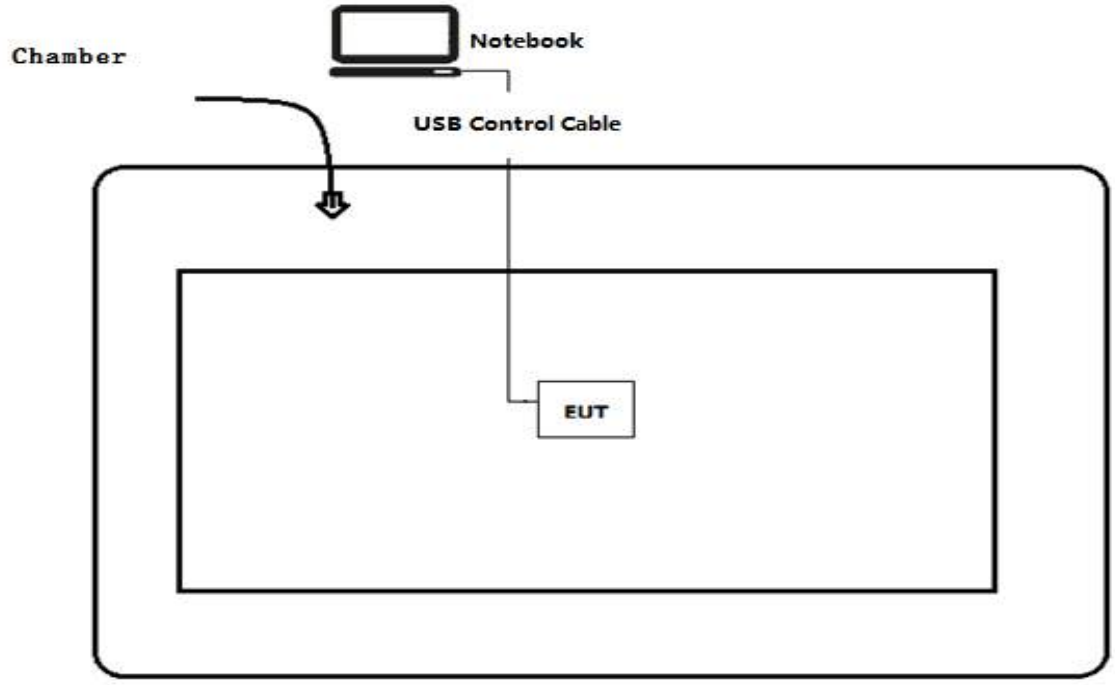
The EUT has been tested with the following auxiliary equipment / unit / software:

Auxiliary equipment	Type / Version	Manufacturer	Supplied by
Notebook	Think pad x220	Lenovo	Adapter
software	Type / Version	Manufacturer	Supplied by
Qdart	0004.1	N/A	N/A
Putty	0.71	N/A	N/A

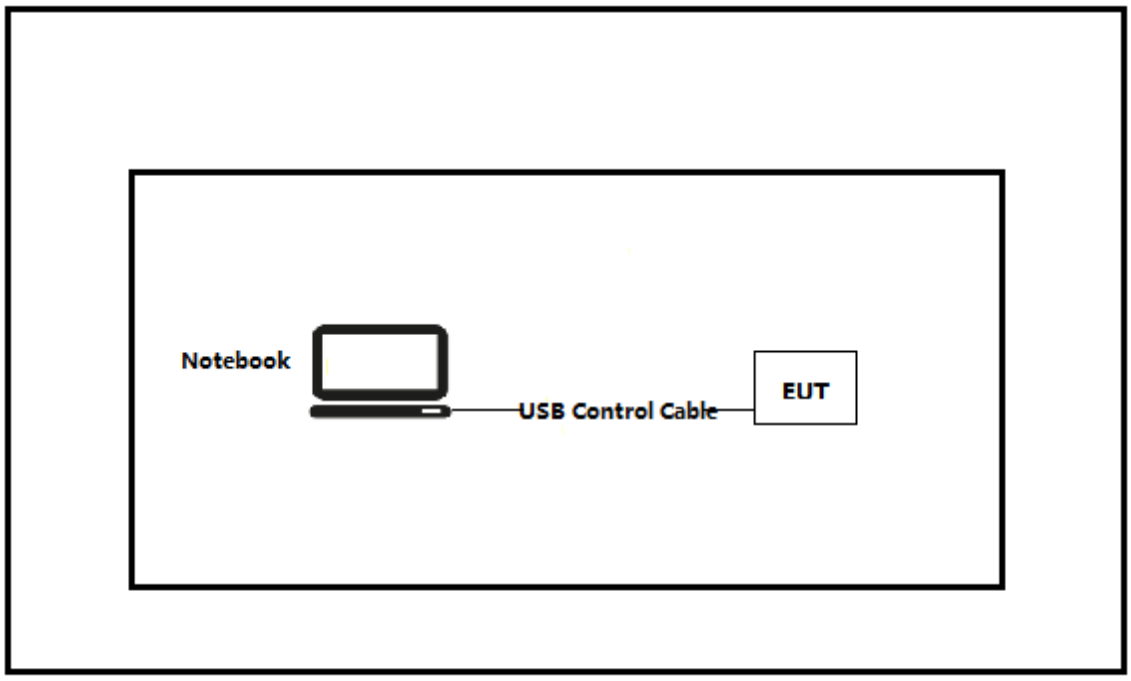
2.3 Test Configuration / Block diagram used for tests

The following test setup / configuration / block diagram has been used during the tests:

Test setup Diagram- Radiated Test



Test setup Diagram- Conducted test



2.4 Testing process

1	Setup the EUT as shown in Section 2.3.
2	Execute the Putty and Qdart on the notebook.
3	Configure the test mode, the test channel, and the data rate.
4	Verify that the EUT works properly.

3 VERDICT SUMMARY SECTION

This chapter presents an overview of standards and results. Refer to the next chapters for details of measured test results and applied test levels.

3.1 Standards

Standard	Year	Description
FCC CFR Title 47 Part 15 Subpart E Section 15.407	2020	General technical requirements.
ANSI C63.10	2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
KDB 79033 D02V02r01	2019	GUIDELINES FOR COMPLIANCE TESTING OF UNLICENSED NATIONAL INFORMATION INFRASTRUCTURE (U-NII) DEVICES PART 15, SUBPART E
RSS-Gen Issue 5 Amendment 1	2019	General Requirements for Compliance of Radio Apparatus
RSS-247 Issue 2	2017	Digital Transmission Systems (DTSs),Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices

3.2 Overview of results

Requirement – Test case	Basic standard(s)	Verdict	Remark
Conducted Emission	FCC 15.207	PASS	---
Radiated Emission	FCC 15.209	PASS	---
Emission bandwidth and occupied bandwidth	FCC 15.407(e)	PASS	---
6dB Emission Bandwidth	FCC 15.407(e)	PASS	---
Power Output	FCC 15.407(a)	PASS	---
Peak Power Spectral Density	FCC 15.407(a)	PASS	---
Radiated Emission Band Edge	FCC 15.407(b)	PASS	---
Frequency Stability	FCC 15.407(g)	PASS	---

Requirement – Test case	Basic standard(s)	Verdict	Remark
Conducted Emission	RSS-Gen Issue 5: Section 8.8	PASS	---
Radiated Emission	RSS-Gen Issue 5:Section 8.9 RSS-247 Issue 2:Section 6.2	PASS	---
Emission bandwidth and occupied bandwidth	RSS-Gen Issue 5:Section 6.6 RSS-247 Issue 2:Section 6.2.4	PASS	---
Power Output	RSS-247 Issue 2:Section 6.2	PASS	---
Peak Power Spectral Density	RSS-247 Issue 2:Section 6.2	PASS	---
Radiated Emission Band Edge	RSS-Gen Issue 5:Section 8.10	PASS	---
Frequency Stability	RSS-Gen Issue 5:Section 6.11	PASS	---
Antenna Requirement	RSS-Gen Issue 5:Section 8.3	PASS	---
Supplementary information:			

3.3 Test Facility

USA : FCC Designation Number: CN1199
Canada : CAB identifier Number: CN0040

4 TEST RESULTS

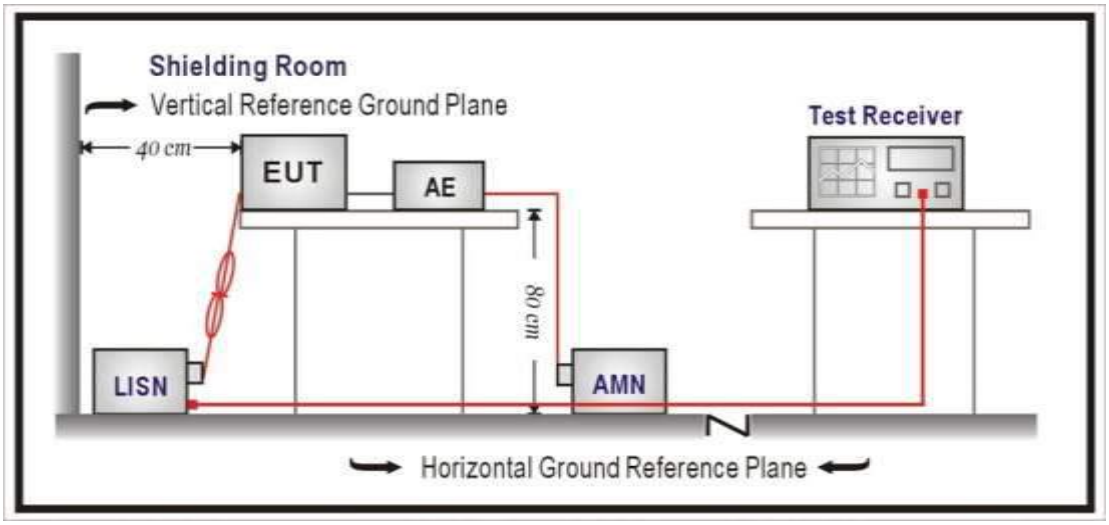
4.1 AC Power Line Conducted Emission	VERDICT: PASS

4.1.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.207	
Frequency range [MHz]	Limit: QP [dB(μV)[1)]]	Limit: AV [dB(μV) [1)]]
0,15 - 0,50	66 - 56 [2)]	56 - 46 [2)]
0,50 - 5,0	56	46
5,0 - 30	60	50

[1)] At the transition frequency, the lower limit applies.
[2)] The limit decreases linearly with the logarithm of the frequency.

4.1.2 Test Setup

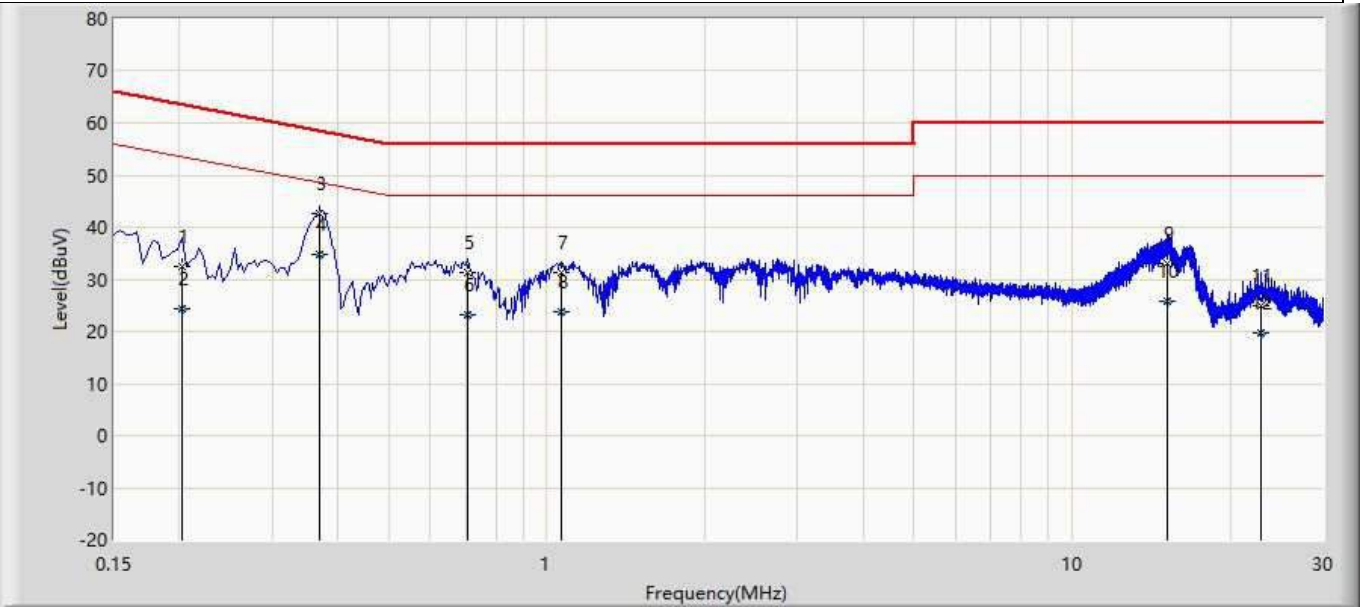


4.1.3 Test Procedure

	References Rule	Chapter	Item
☒	ANSI C63.10-2013	6.2	Standard test method for ac power-line conducted emissions from unlicensed wireless devices

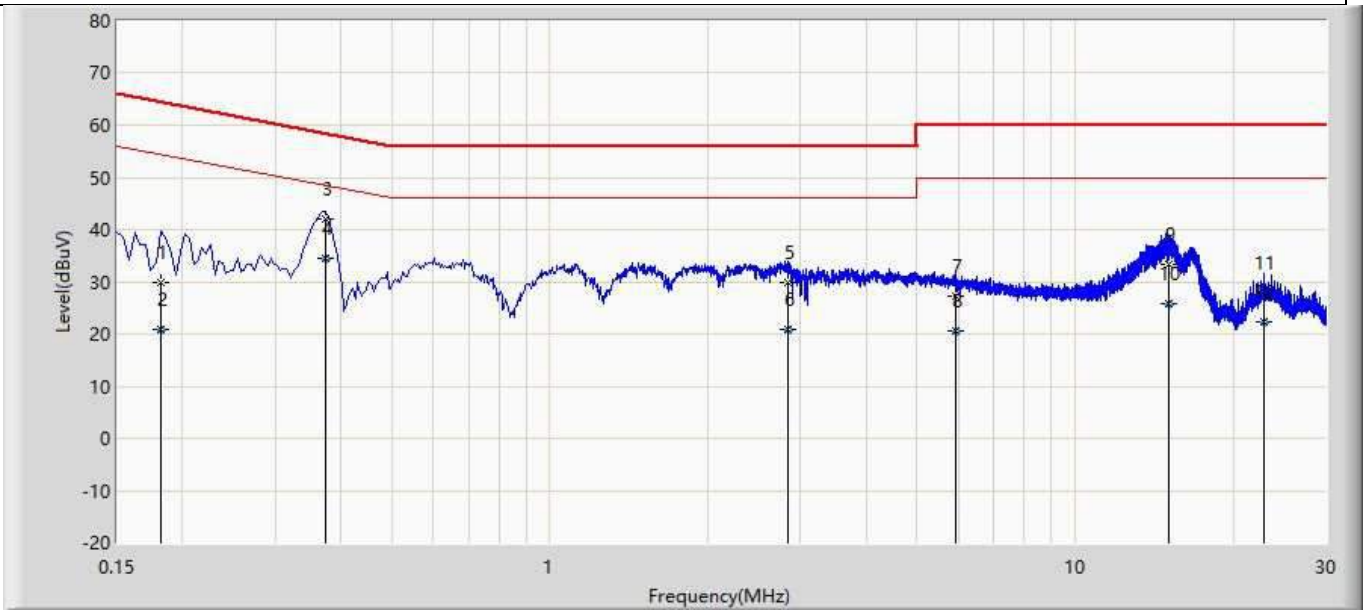
4.1.4 Test Data

Profile: 2090075R	Page No.: 9
Engineer: Pawn	
Site: TR1	Time: 2020/09/27 - 20:54
Limit: FCC_Part15.207_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101189(0.009-30MHz)	Polarity: Neutral
EUT: 8690i	Power: AC 120V/60Hz
Note:	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.202	32.436	22.786	-31.092	63.528	9.650	QP
2		0.202	24.415	14.765	-29.113	53.528	9.650	AV
3		0.370	42.511	32.854	-15.990	58.501	9.657	QP
4	*	0.370	34.815	25.158	-13.686	48.501	9.657	AV
5		0.706	31.268	21.599	-24.732	56.000	9.669	QP
6		0.706	23.271	13.603	-22.729	46.000	9.669	AV
7		1.062	31.335	21.645	-24.665	56.000	9.690	QP
8		1.062	23.833	14.143	-22.167	46.000	9.690	AV
9		15.170	32.950	22.831	-27.050	60.000	10.120	QP
10		15.170	25.875	15.755	-24.125	50.000	10.120	AV
11		22.926	24.987	14.614	-35.013	60.000	10.374	QP
12		22.926	19.802	9.428	-30.198	50.000	10.374	AV

Profile: 2090075R	Page No.: 10
Engineer: Pawn	
Site: TR1	Time: 2020/09/27 - 21:00
Limit: FCC_Part15.207_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101189(0.009-30MHz)	Polarity: Line
EUT: 8690i	Power: AC 120V/60Hz
Note:	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.182	29.946	20.274	-34.447	64.394	9.673	QP
2		0.182	20.988	11.315	-33.406	54.394	9.673	AV
3		0.374	41.931	32.250	-16.481	58.412	9.681	QP
4	*	0.374	34.435	24.754	-13.977	48.412	9.681	AV
5		2.834	29.928	20.168	-26.072	56.000	9.760	QP
6		2.834	20.955	11.195	-25.045	46.000	9.760	AV
7		5.902	27.350	17.493	-32.650	60.000	9.857	QP
8		5.902	20.683	10.826	-29.317	50.000	9.857	AV
9		15.074	33.364	23.235	-26.636	60.000	10.128	QP
10		15.074	25.770	15.642	-24.230	50.000	10.128	AV
11		22.906	27.762	17.377	-32.238	60.000	10.385	QP
12		22.906	22.398	12.012	-27.602	50.000	10.385	AV

4.2 Emissions in restricted frequency bands — VERDICT: PASS

4.2.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.205; 15.209

Restricted Bands of operation for FCC

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 – 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15
0.495 – 0.505	16.69475 –16.69525	608 – 614	5.35 – 5.46
2.1735 – 2.1905	16.80425 – 16.80475	960 – 1240	7.25 – 7.75
4.125 – 4.128	25.5 – 25.67	1300 – 1427	8.025 – 8.5
4.17725 – 4.17775	37.5 – 38.25	1435 – 1626.5	9.0 – 9.2
4.20725 – 4.20775	73 – 74.6	1645.5 – 1646.5	9.3 – 9.5
6.215 – 6.218	74.8 – 75.2	1660 – 1710	10.6 – 12.7
6.26775 – 6.26825	108 – 121.94	1718.8 – 1722.2	13.25 – 13.4
6.31175 – 6.31225	123 – 138	2200 – 2300	14.47 – 14.5
8.291 – 8.294	149.9 – 150.05	2310 – 2390	15.35 – 16.2
8.362 – 8.366	156.52475 – 156.52525	2483.5 – 2500	17.7 – 21.4
8.37625 – 8.38675	156.7 – 156.9	2690 – 2900	22.01 – 23.12
8.81425 – 8.81475	162.0125 – 167.17	3260 – 3267	23.6 – 24.0
12.29 – 12.293	167.72 – 173.2	3332 – 3339	31.2 – 31.8
12.51975–12.52025	240 – 285	3345.8 – 3358	36.43 – 36.5
12.57675–12.57725	322 – 335.4	3600 – 4400	Above 38.6
13.36 – 13.41	--	--	--

Restricted Bands of operation for ISED

0.090 - 0.110	13.36 - 13.41	960 - 1427	9.0 - 9.2
0.495 - 0.505	16.42 - 16.423	1435 - 1626.5	9.3 - 9.5
2.1735 - 2.1905	16.69475 - 16.69525	1645.5 - 1646.5	10.6 - 12.7
3.020 - 3.026	16.80425 - 16.80475	1660 - 1710	13.25 - 13.4
4.125 - 4.128	25.5 - 25.67	1718.8 - 1722.2	14.47 - 14.5
4.17725 - 4.17775	37.5 - 38.25	2200 - 2300	15.35 - 16.2
4.20725 - 4.20775	73 - 74.6	2310 - 2390	17.7 - 21.4
5.677 - 5.683	74.8 - 75.2	2483.5 - 2500	22.01 - 23.12
6.215 - 6.218	108 - 138	2655 - 2900	23.6 - 24.0
6.26775 - 6.26825	149.9 - 150.05	3260 - 3267	31.2 - 31.8
6.31175 - 6.31225	156.52475 - 156.52525	3332 - 3339	36.43 - 36.5
8.291 - 8.294	156.7 - 156.9	3345.8 - 3358	Above 38.6
8.362 - 8.366	162.0125 - 167.17	3500 - 4400	--
8.37625 - 8.38675	167.72 - 173.2	4500 - 5150	--
8.41425 - 8.41475	240 - 285	5350 - 5460	--
12.29 - 12.293	322 - 335.4	7250 - 7750	--
12.51975 - 12.52025	399.9 - 410	8025 - 8500	--
12.57675 - 12.57725	608 - 614	--	--

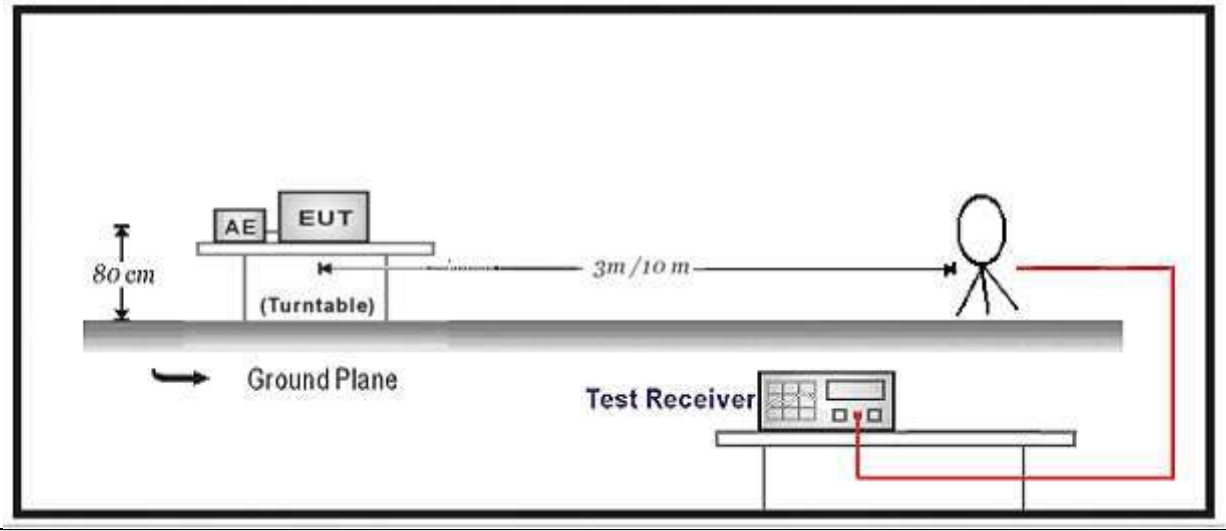
Restricted Band Emissions Limit			
Frequency (MHz)	Field strength (μV/m)	Field strength (dBμV/m)	Measurement distance (m)
0.009 - 0.49	2400/F(kHz)	48.5 – 13.8	300(Note 1)
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30(Note 1)
1.705 - 30	30	29.5	30(Note 1)
30 - 88	100	40	3(Note 2)
88 - 216	150	43.5	3(Note 2)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

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

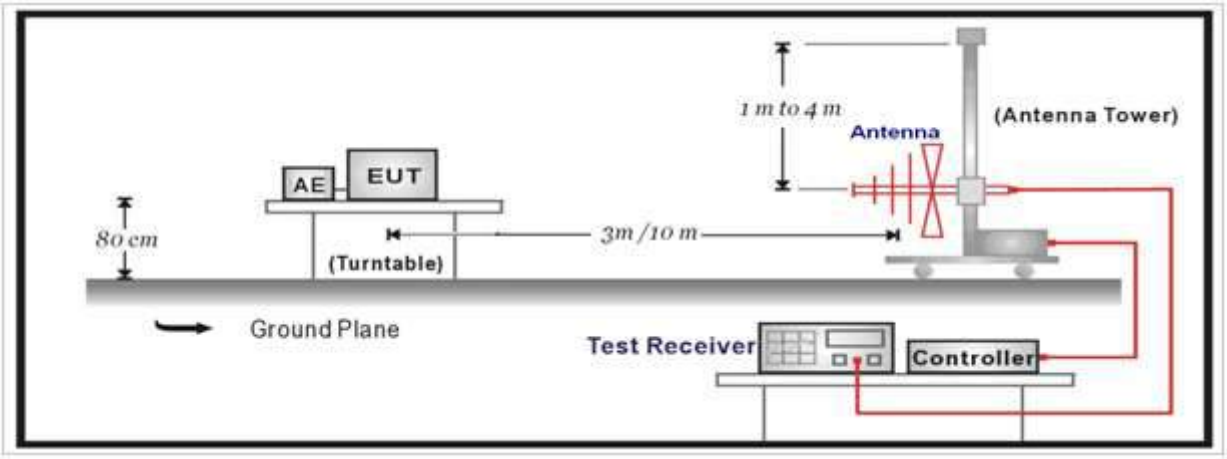
Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated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

4.2.2 Test Setup

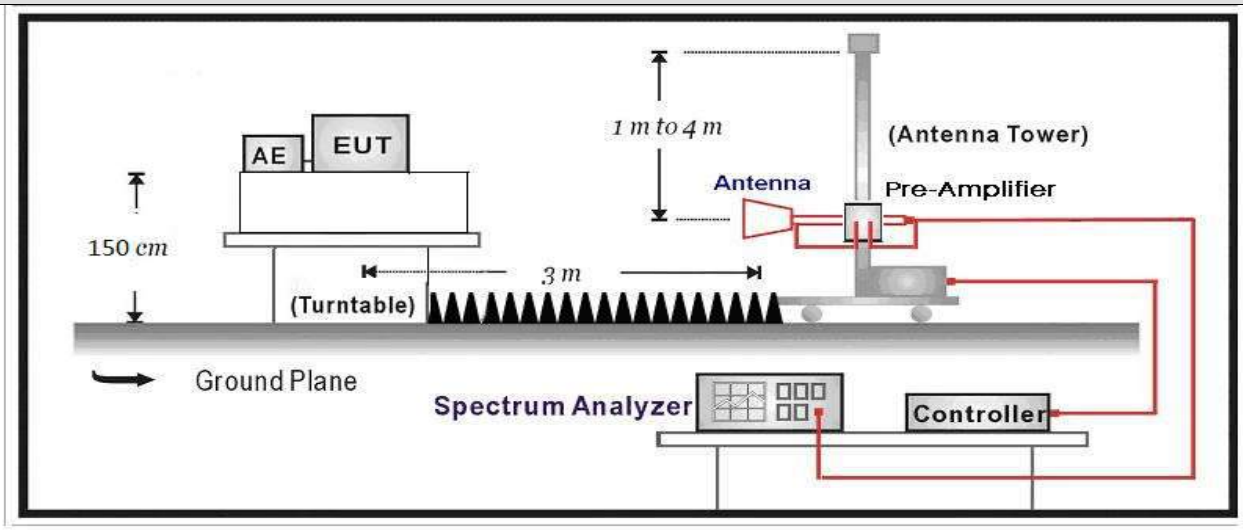
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:



4.2.3 Test Procedure

	References Rule	Chapter	Description
☐	ANSI C63.10	12.7.3	Emissions in non-restricted frequency bands
☒	ANSI C63.10	12.7.2	Emissions in restricted frequency bands
	☒ ANSI C63.10	12.7.5	Radiated emission measurements
	☒ ANSI C63.10	12.7.6	Procedure for peak unwanted emissions measurements above 1000 MHz
	☒ ANSI C63.10	12.7.7	Procedures for average unwanted emissions measurements above 1000 MHz
	☒ ANSI C63.10	12.7.7.2	Method AD (average detection)—primary method
	☒ ANSI C63.10	12.7.7.3	Method VB-A (Alternative)
☐	FCC KDB 789033 D02v02r01	G.2	Unwanted Emissions that fall Outside of the Restricted Bands
☐	FCC KDB 789033 D02v02r01	G.1	Unwanted Emissions in the Restricted Bands
	☐ FCC KDB 789033 D02v02r01	G.4	Procedure for Unwanted Emissions Measurements below 1000 MHz
	☐ FCC KDB 789033 D02v02r01	G.5	Procedure for Unwanted Maximum Emissions Measurements above 1000 MHz
	☐ FCC KDB 789033 D02v02r01	G.6	Procedures for Average Unwanted Emissions Measurements above 1000 MHz
	☐ FCC KDB 789033 D02v02r01	G.6.c	Method AD (Average detection)—primary method
	☐ FCC KDB 789033 D02v02r01	G.6.d	Method VB (Averaging using reduced video bandwidth): Alternative method.

4.2.4 Test Data

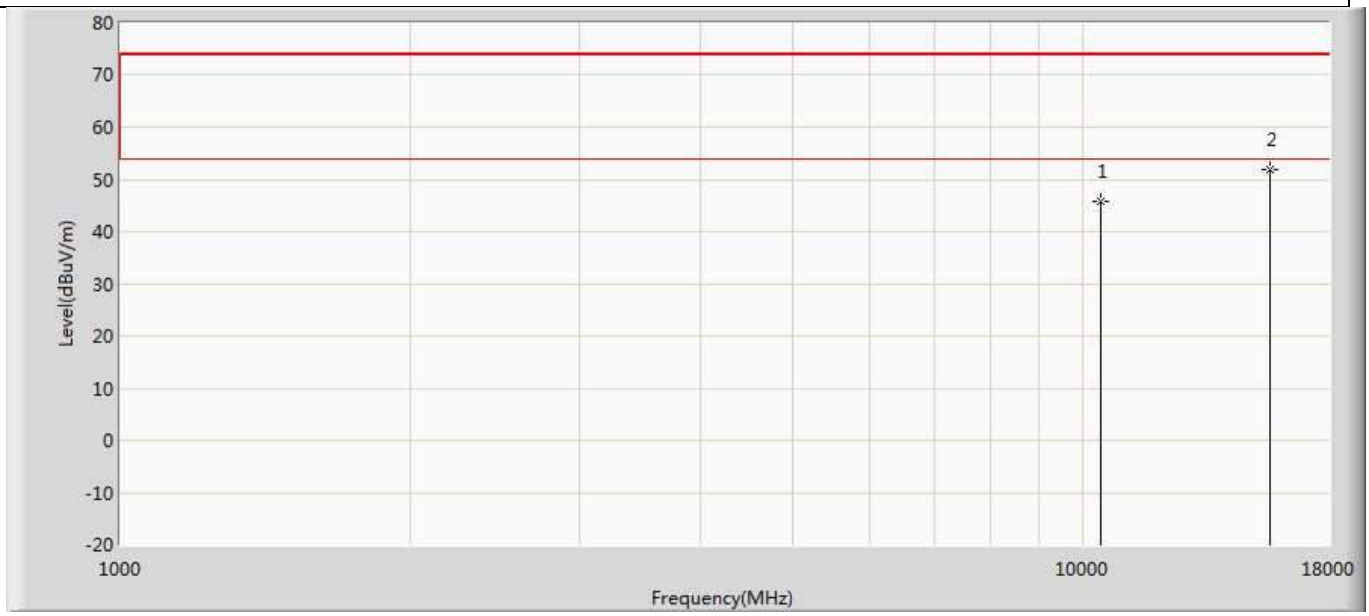
Profile: 2090075R	Page No.: 65
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 1:Transmit at 5180MHz by 802.11a	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10360.000	45.083	34.972	-28.917	74.000	10.110	PK
2	*	15540.000	51.643	34.966	-22.357	74.000	16.677	PK

Profile: 2090075R	Page No.: 66
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 1:Transmit at 5180MHz by 802.11a	

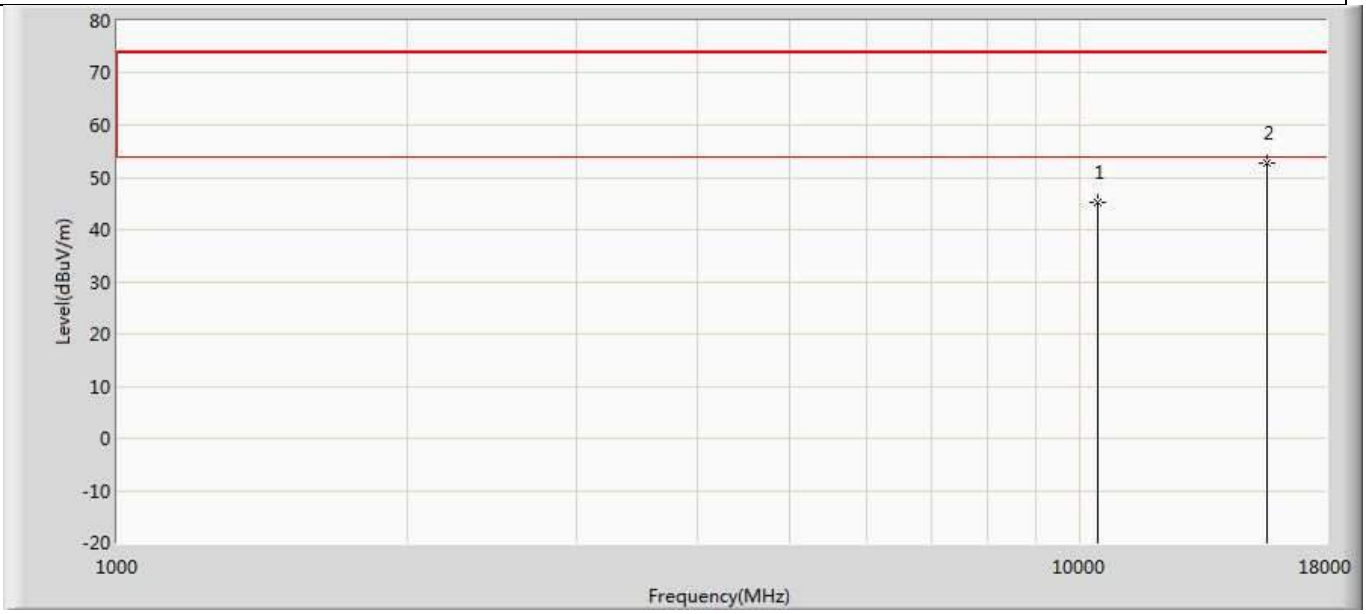
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10360.000	45.902	35.791	-28.098	74.000	10.110	PK
2	*	15540.000	52.386	35.709	-21.614	74.000	16.677	PK

Profile: 2090075R	Page No.: 1
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 16:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 1:Transmit at 5220MHz by 802.11a	



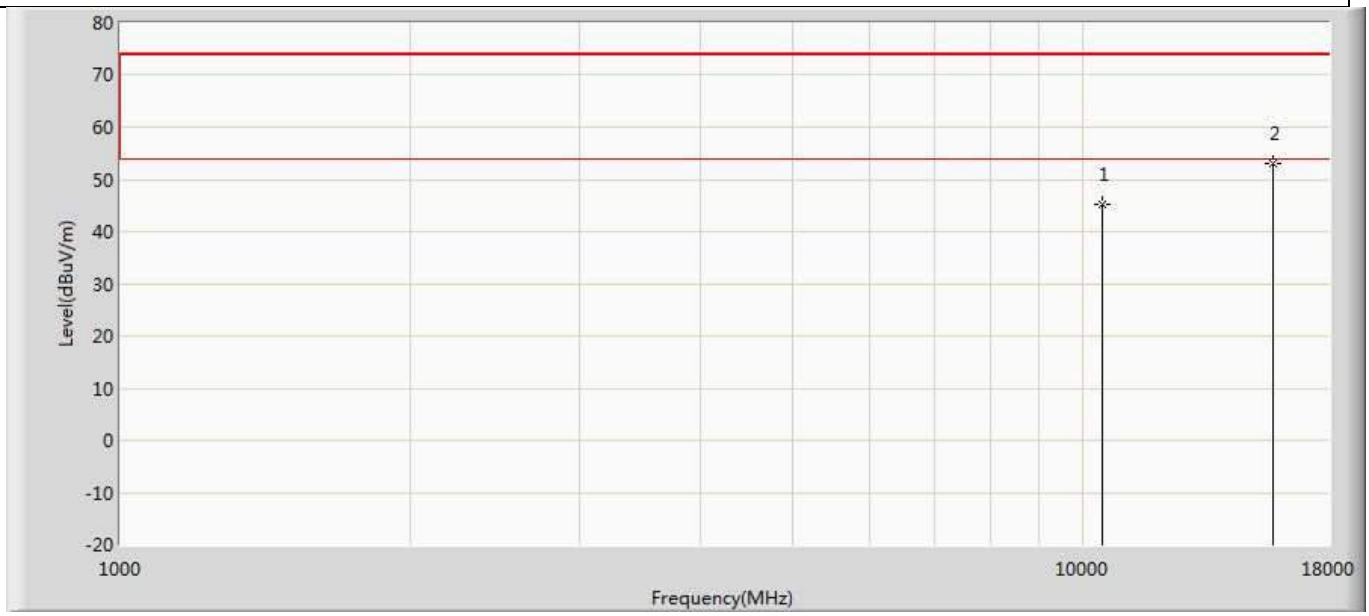
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10440.000	45.688	35.172	-28.312	74.000	10.517	PK
2	*	15660.000	51.766	35.223	-22.234	74.000	16.542	PK

Profile: 2090075R	Page No.: 2
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 17:19
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 1:Transmit at 5220MHz by 802.11a	



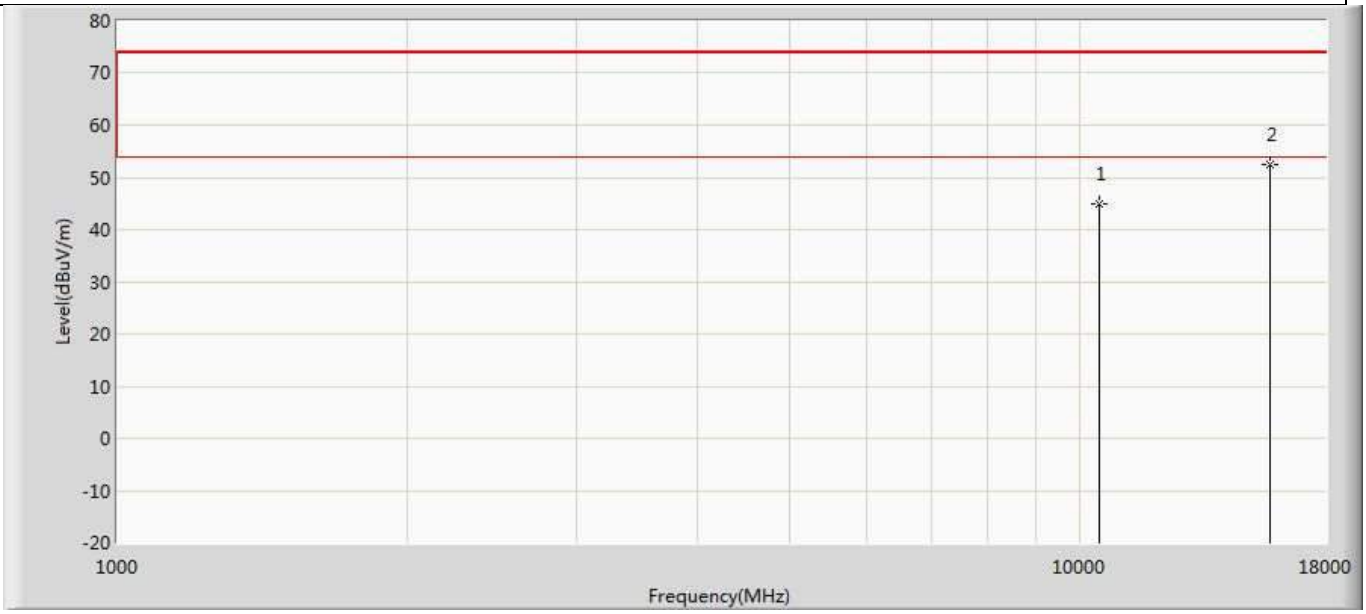
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10440.000	45.327	34.811	-28.673	74.000	10.517	PK
2	*	15660.000	52.736	36.193	-21.264	74.000	16.542	PK

Profile: 2090075R	Page No.: 7
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 17:30
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 1:Transmit at 5240MHz by 802.11a	



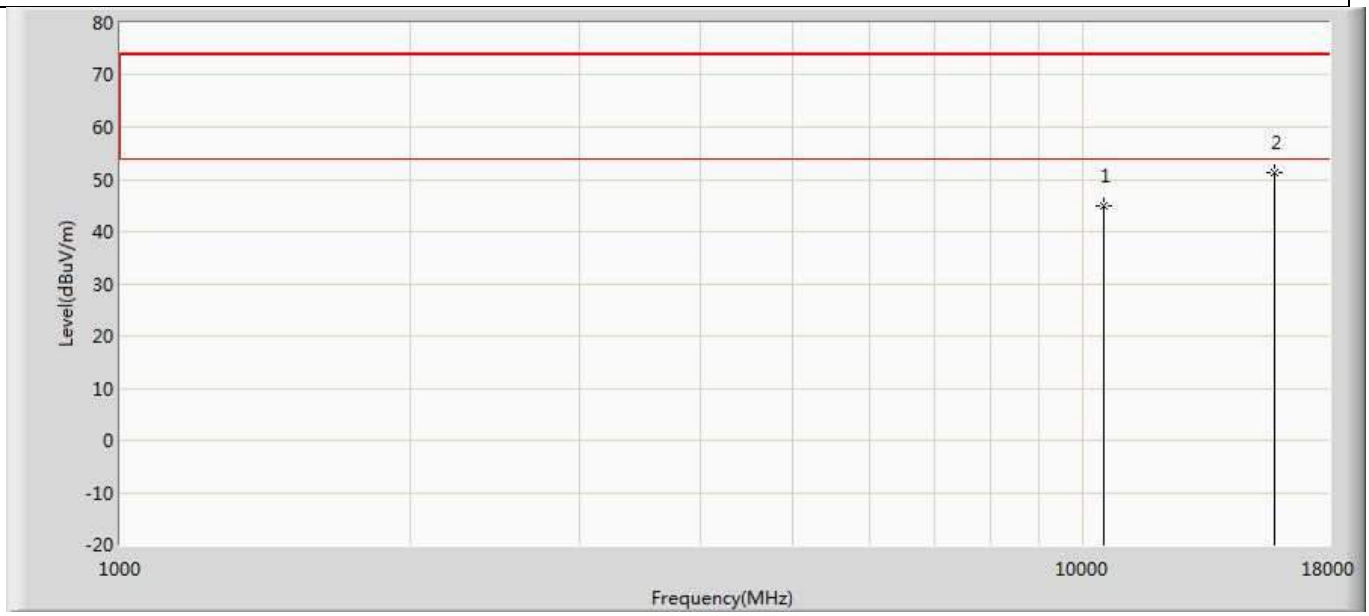
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10480.000	45.263	34.712	-28.737	74.000	10.551	PK
2	*	15720.000	52.984	35.861	-21.016	74.000	17.123	PK

Profile: 2090075R	Page No.: 8
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 17:31
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 1:Transmit at 5240MHz by 802.11a	



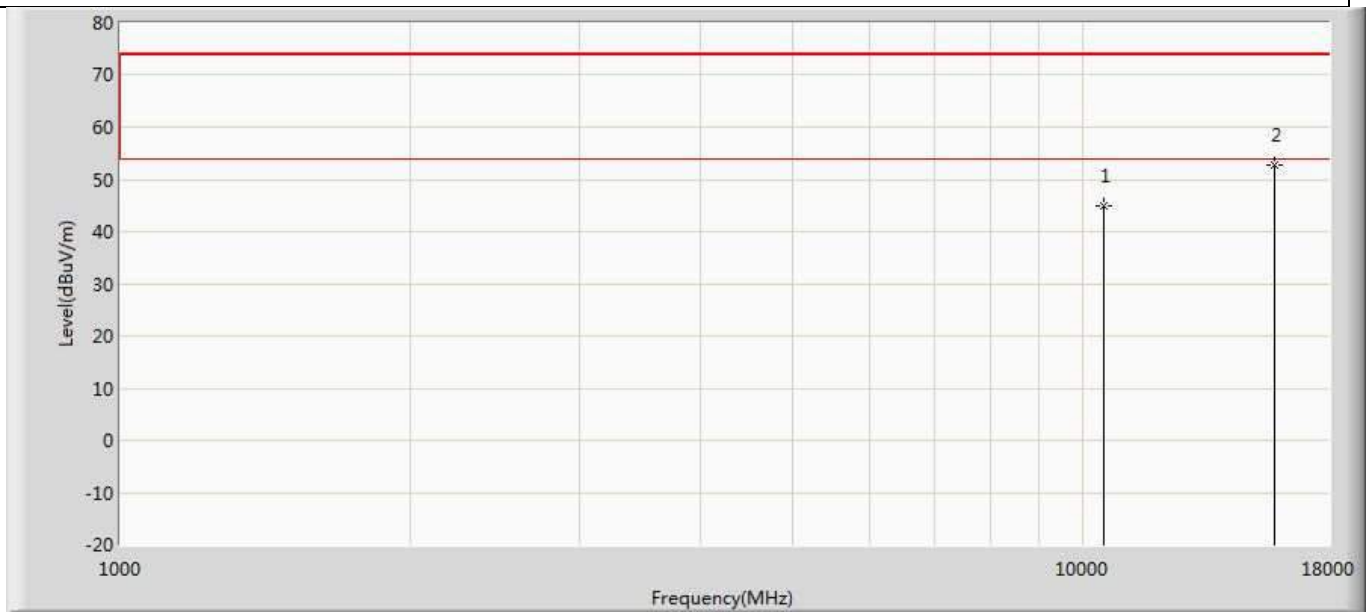
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10480.000	44.837	34.286	-29.163	74.000	10.551	PK
2	*	15720.000	52.385	35.262	-21.615	74.000	17.123	PK

Profile: 2090075R	Page No.: 13
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 17:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 1:Transmit at 5260MHz by 802.11a	



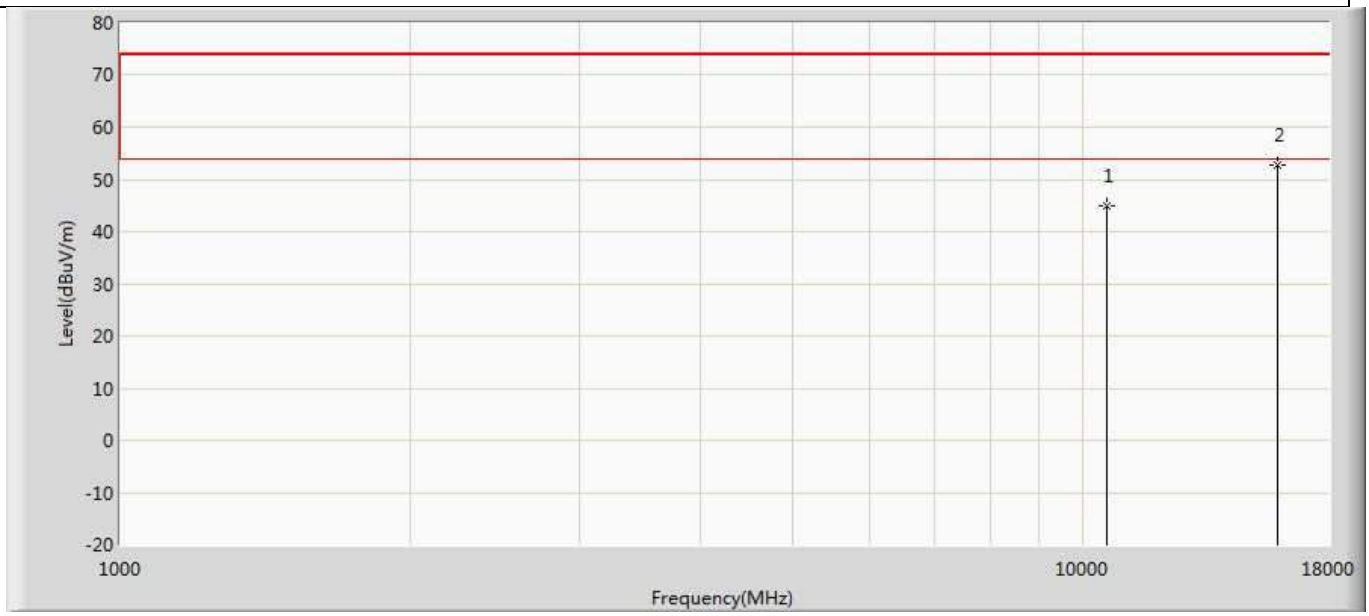
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10520.000	44.937	34.012	-29.063	74.000	10.925	PK
2	*	15780.000	51.367	34.051	-22.633	74.000	17.316	PK

Profile: 2090075R	Page No.: 14
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 17:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 1:Transmit at 5260MHz by 802.11a	



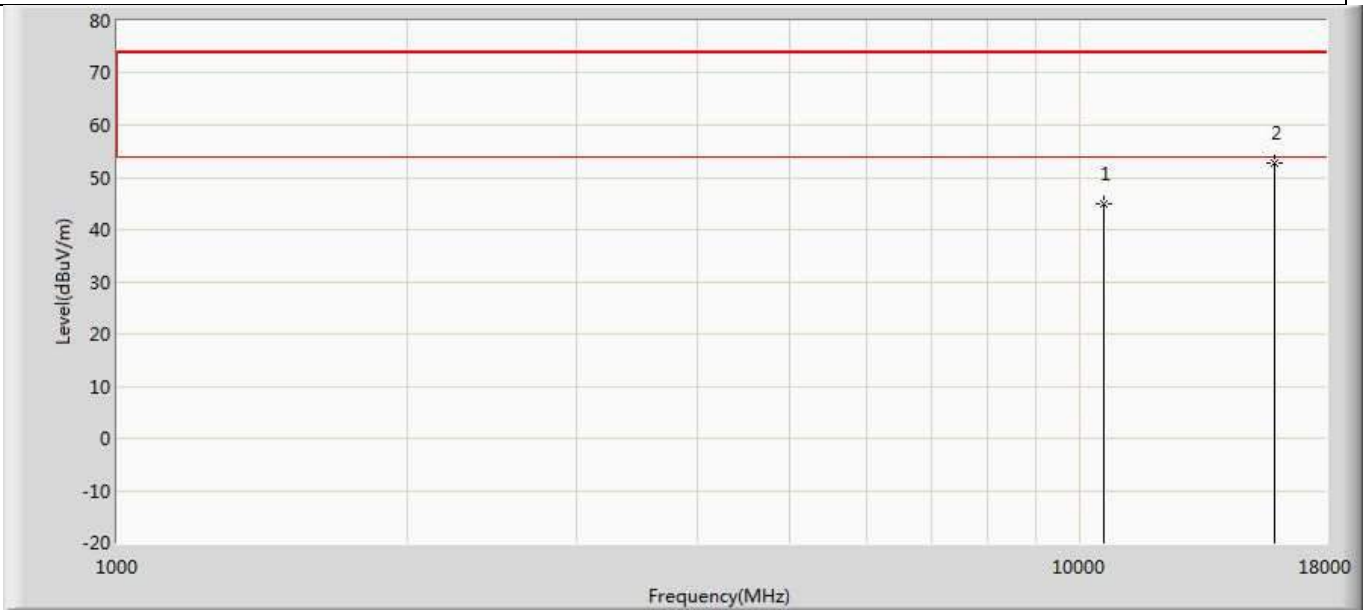
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10520.000	44.827	33.902	-29.173	74.000	10.925	PK
2	*	15780.000	52.837	35.521	-21.163	74.000	17.316	PK

Profile: 2090075R	Page No.: 19
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 17:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 1:Transmit at 5300MHz by 802.11a	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10600.000	44.823	34.164	-29.177	74.000	10.658	PK
2	*	15900.000	52.837	35.682	-21.163	74.000	17.155	PK

Profile: 2090075R	Page No.: 20
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 17:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 1:Transmit at 5300MHz by 802.11a	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10600.000	44.837	34.178	-29.163	74.000	10.658	PK
2	*	15900.000	52.837	35.682	-21.163	74.000	17.155	PK

Profile: 2090075R	Page No.: 67
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 1:Transmit at 5320MHz by 802.11a	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10640.000	45.809	35.384	-28.191	74.000	10.425	PK
2	*	15960.000	51.192	33.598	-22.808	74.000	17.594	PK

Profile: 2090075R	Page No.: 68
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 1:Transmit at 5320MHz by 802.11a	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10640.000	44.198	33.773	-29.802	74.000	10.425	PK
2	*	15960.000	50.689	33.095	-23.311	74.000	17.594	PK

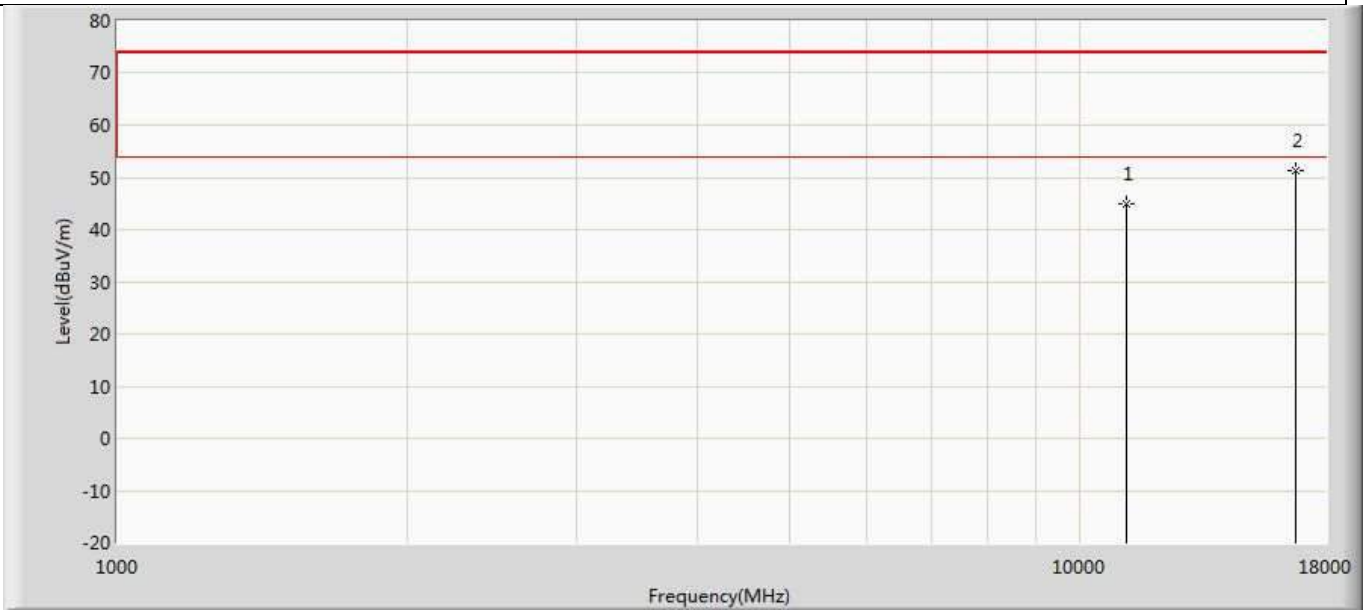
Profile: 2090075R	Page No.: 69
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 1:Transmit at 5500MHz by 802.11a	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11000.000	44.459	33.064	-29.541	74.000	11.394	PK
2	*	16500.000	52.368	33.408	-21.632	74.000	18.960	PK

Profile: 2090075R	Page No.: 70
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 1:Transmit at 5500MHz by 802.11a	

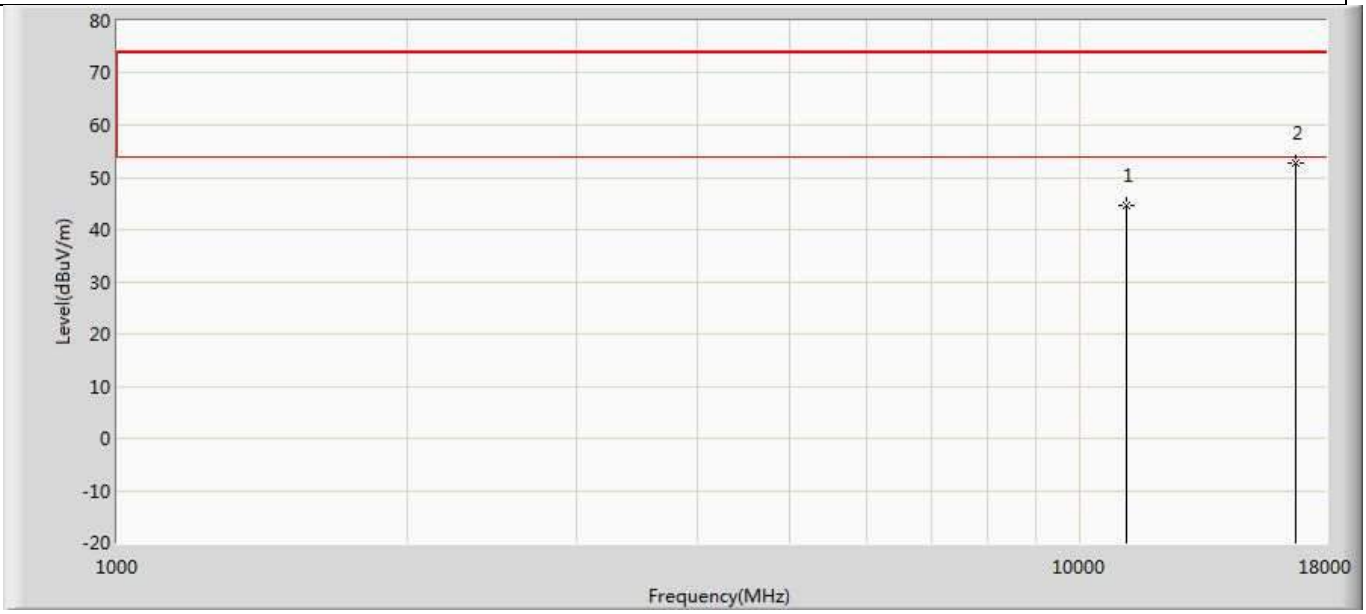
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11000.000	45.563	34.168	-28.437	74.000	11.394	PK
2	*	16500.000	53.434	34.474	-20.566	74.000	18.960	PK

Profile: 2090075R	Page No.: 25
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 17:50
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 1:Transmit at 5580MHz by 802.11a	



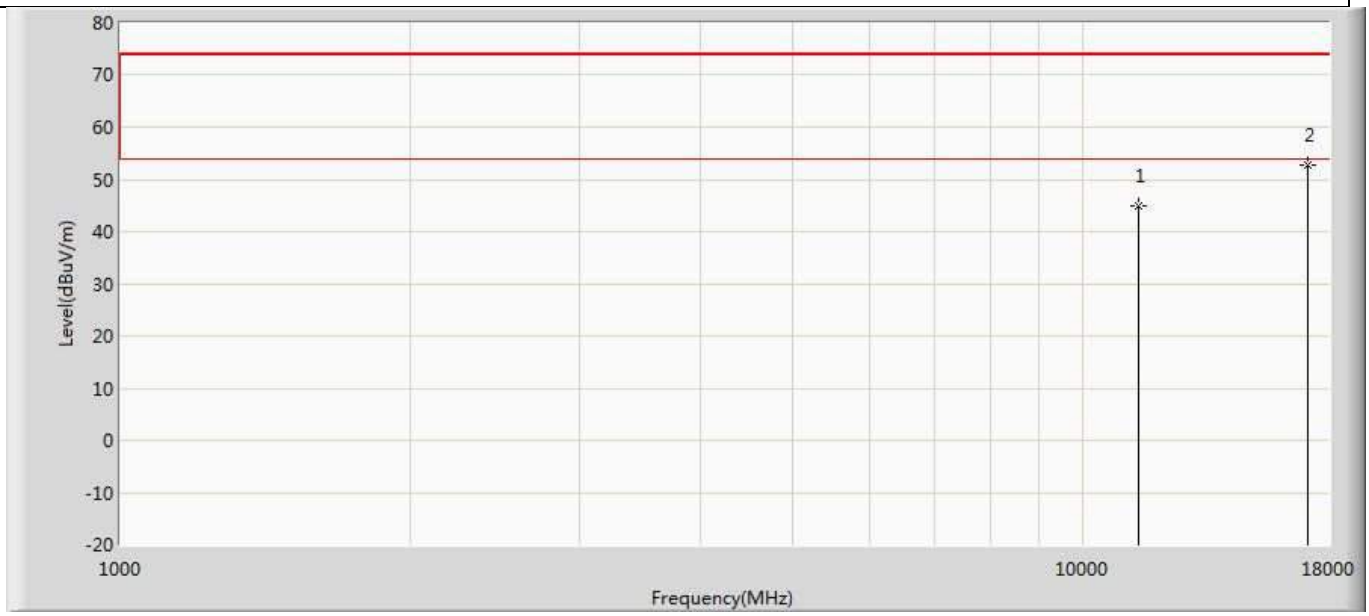
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11160.000	44.827	32.828	-29.173	74.000	11.999	PK
2	*	16740.000	51.273	32.668	-22.727	74.000	18.605	PK

Profile: 2090075R	Page No.: 26
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 17:50
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 1:Transmit at 5580MHz by 802.11a	



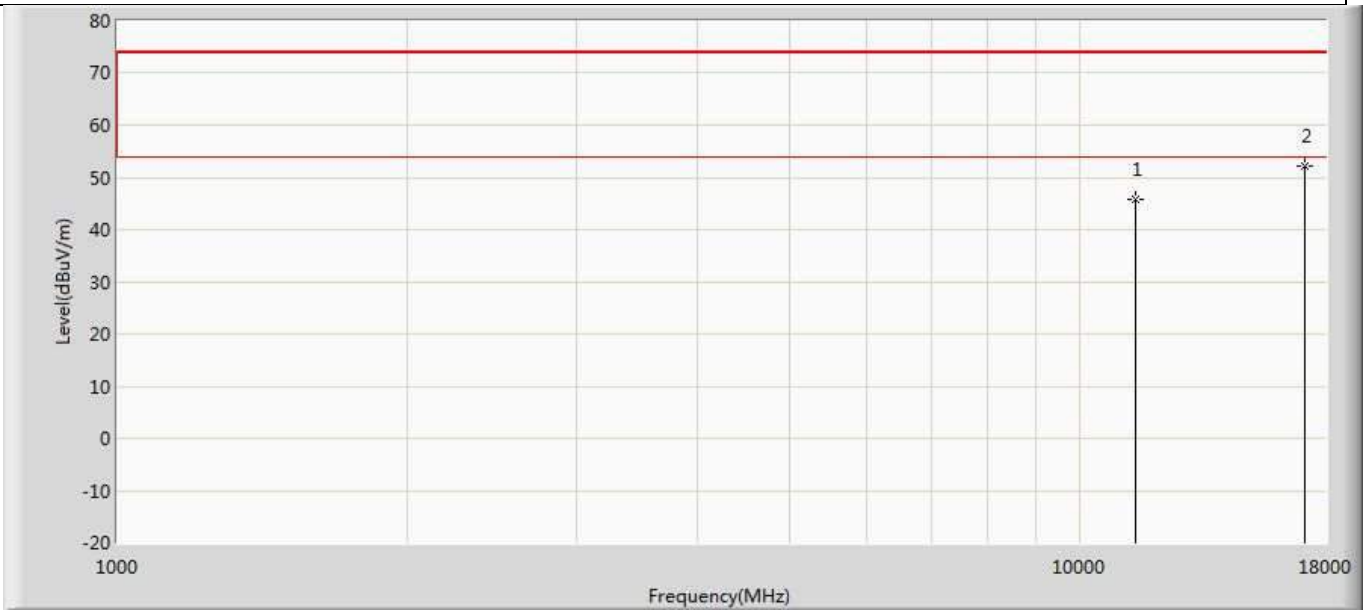
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11160.000	44.726	32.727	-29.274	74.000	11.999	PK
2	*	16740.000	52.736	34.131	-21.264	74.000	18.605	PK

Profile: 2090075R	Page No.: 31
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 17:53
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 1:Transmit at 5700MHz by 802.11a	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11400.000	44.893	33.038	-29.107	74.000	11.855	PK
2	*	17100.000	52.837	32.787	-21.163	74.000	20.050	PK

Profile: 2090075R	Page No.: 32
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 17:54
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 1:Transmit at 5700MHz by 802.11a	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11400.000	45.827	33.972	-28.173	74.000	11.855	PK
2	*	17100.000	52.187	32.137	-21.813	74.000	20.050	PK

Profile: 2090075R	Page No.: 71
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 1:Transmit at 5745MHz by 802.11a	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11490.000	46.064	33.643	-27.936	74.000	12.421	PK
2	*	17235.000	53.959	33.130	-20.041	74.000	20.829	PK

Profile: 2090075R	Page No.: 72
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 1:Transmit at 5745MHz by 802.11a	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11490.000	45.574	33.153	-28.426	74.000	12.421	PK
2	*	17235.000	53.513	32.684	-20.487	74.000	20.829	PK

Profile: 2090075R	Page No.: 73
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode1:Transmit at 5785MHz by 802.11a	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11570.000	46.245	33.875	-27.755	74.000	12.370	PK
2	*	17355.000	51.803	31.247	-22.197	74.000	20.555	PK

Profile: 2090075R	Page No.: 74
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode1:Transmit at 5785MHz by 802.11a	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11570.000	45.962	33.592	-28.038	74.000	12.370	PK
2	*	17355.000	53.922	33.366	-20.078	74.000	20.555	PK

Profile: 2090075R	Page No.: 75
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 1:Transmit at 5825MHz by 802.11a	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11650.000	46.227	33.677	-27.773	74.000	12.549	PK
2	*	17475.000	52.558	31.865	-21.442	74.000	20.692	PK

Profile: 2090075R	Page No.: 76
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 1:Transmit at 5825MHz by 802.11a	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11650.000	46.519	33.969	-27.481	74.000	12.549	PK
2	*	17475.000	52.561	31.868	-21.439	74.000	20.692	PK

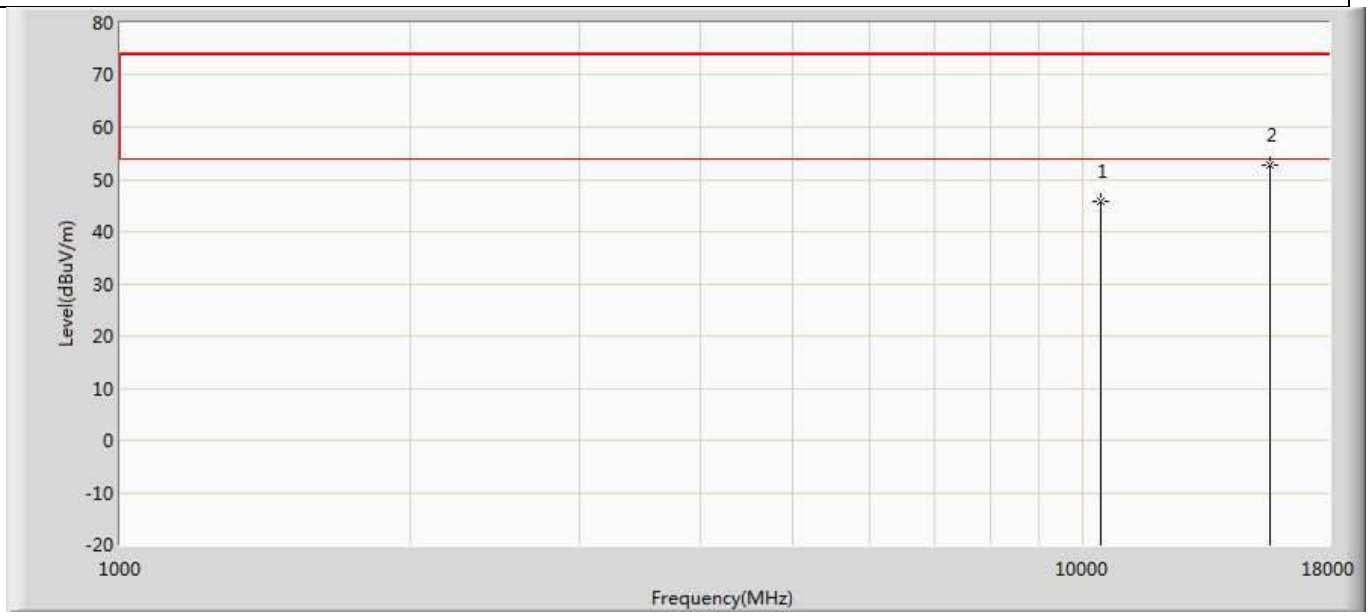
Profile: 2090075R	Page No.: 77
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 2:Transmit at 5180MHz by 802.11n(20MHz)	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10360.000	44.751	34.640	-29.249	74.000	10.110	PK
2	*	15540.000	50.760	34.083	-23.240	74.000	16.677	PK

Profile: 2090075R	Page No.: 78
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 2:Transmit at 5180MHz by 802.11n(20MHz)	

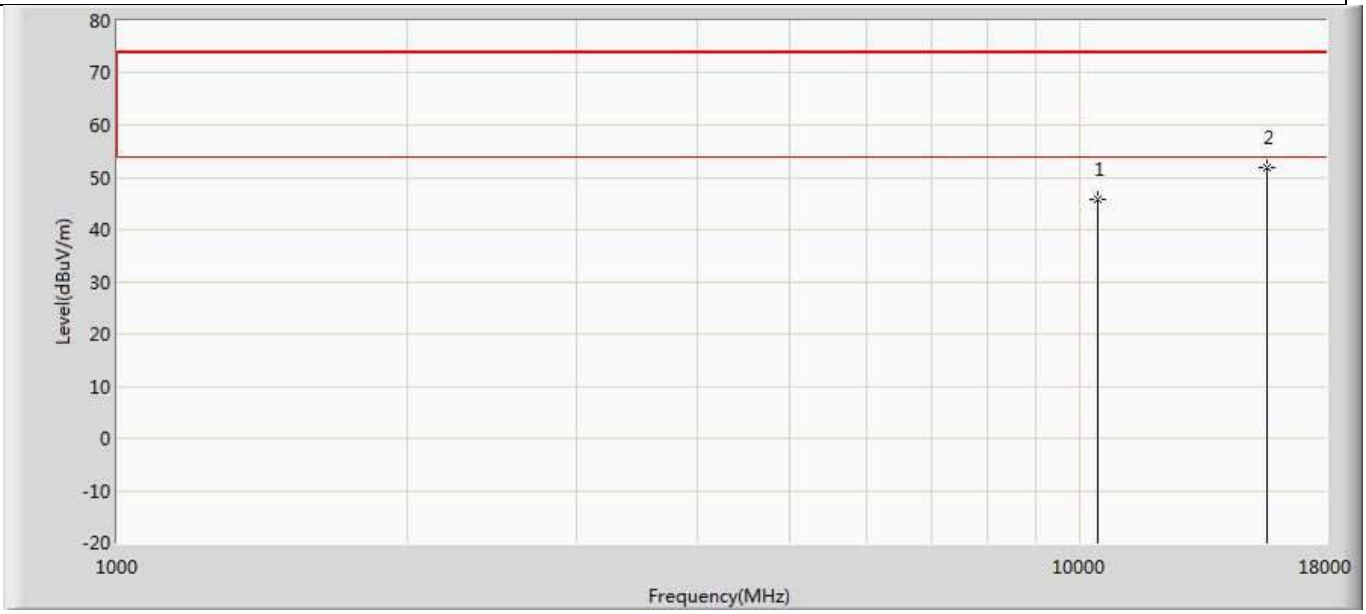
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10360.000	45.607	35.496	-28.393	74.000	10.110	PK
2	*	15540.000	50.314	33.637	-23.686	74.000	16.677	PK

Profile: 2090075R	Page No.: 3
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 17:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 2:Transmit at 5220MHz by 802.11n(20MHz)	



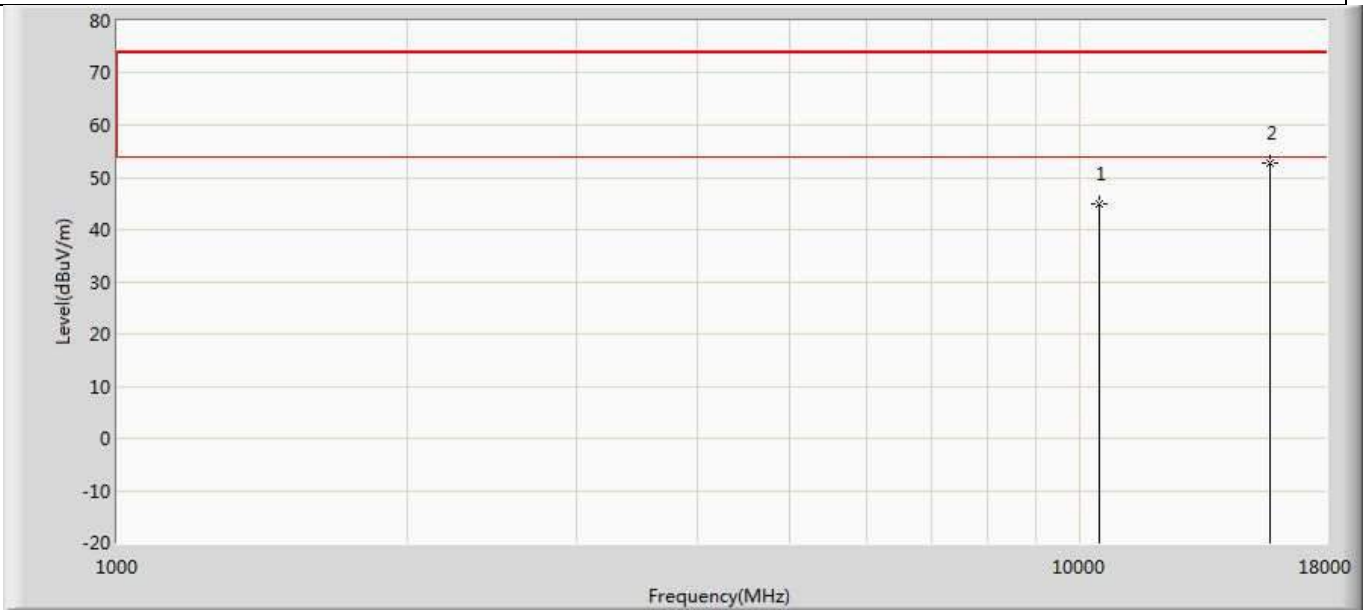
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10440.000	45.736	35.220	-28.264	74.000	10.517	PK
2	*	15660.000	52.745	36.202	-21.255	74.000	16.542	PK

Profile: 2090075R	Page No.: 4
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 17:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 2:Transmit at 5220MHz by 802.11 n(20MHz)	



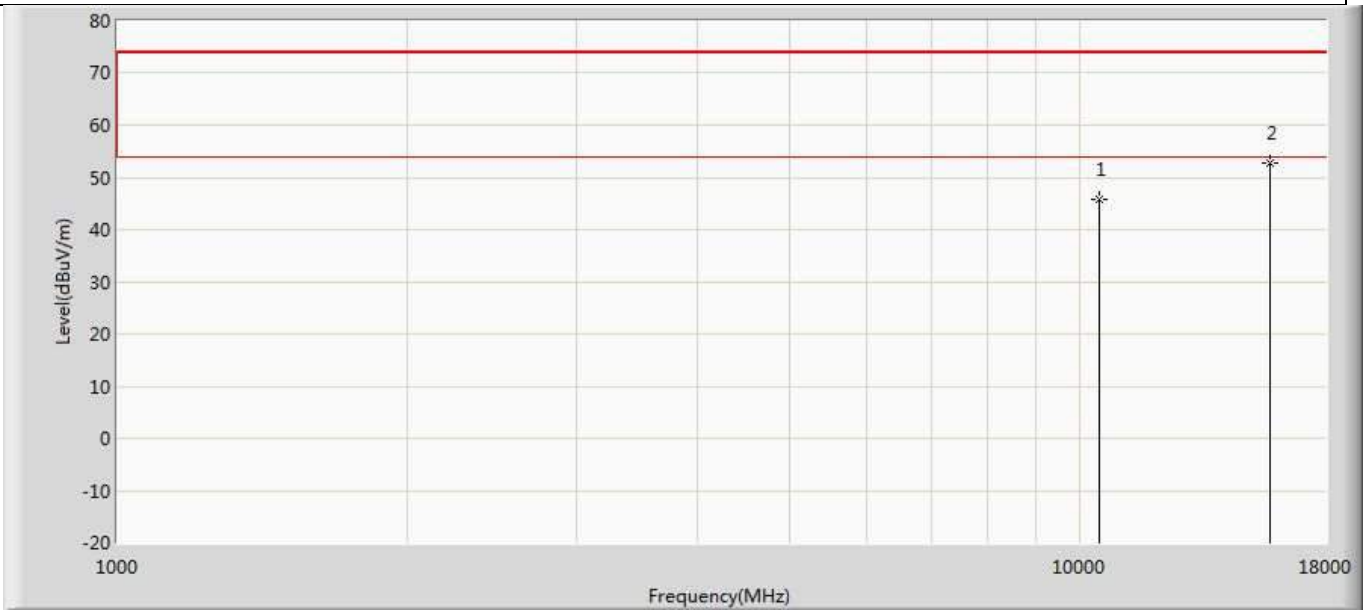
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10440.000	45.927	35.411	-28.073	74.000	10.517	PK
2	*	15660.000	51.836	35.293	-22.164	74.000	16.542	PK

Profile: 2090075R	Page No.: 9
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 17:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 2:Transmit at 5240MHz by 802.11 n(20MHz)	



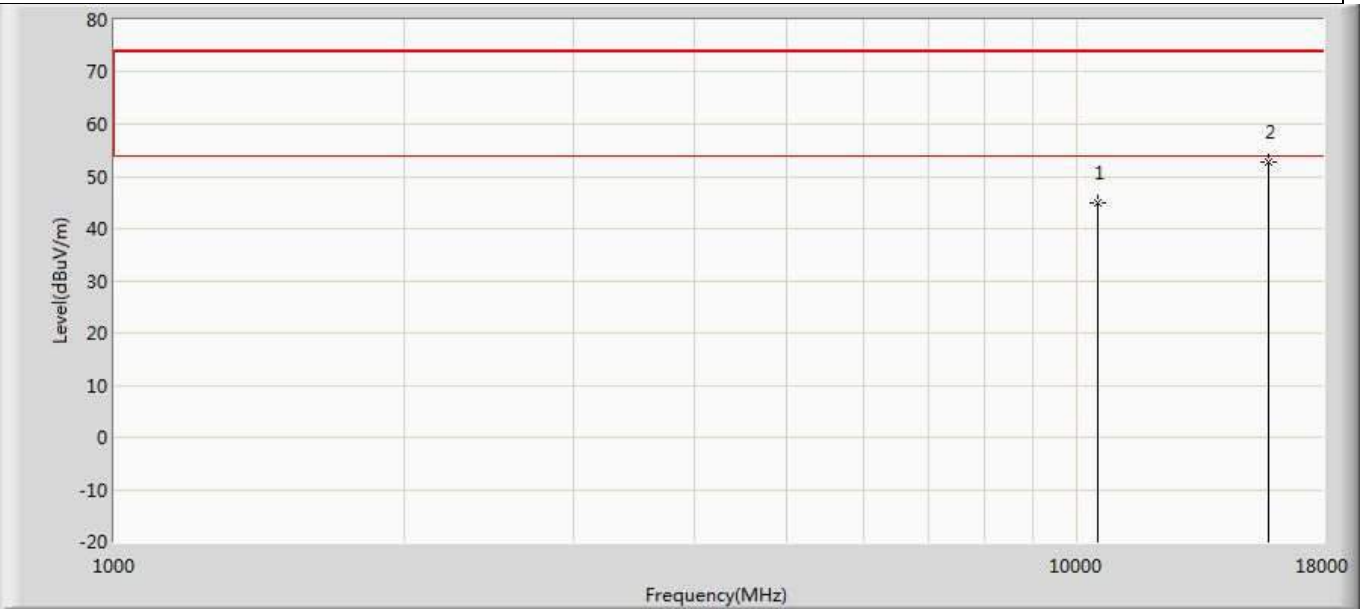
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10480.000	44.958	34.407	-29.042	74.000	10.551	PK
2	*	15720.000	52.734	35.611	-21.266	74.000	17.123	PK

Profile: 2090075R	Page No.: 10
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 17:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 2:Transmit at 5240MHz by 802.11 n(20MHz)	



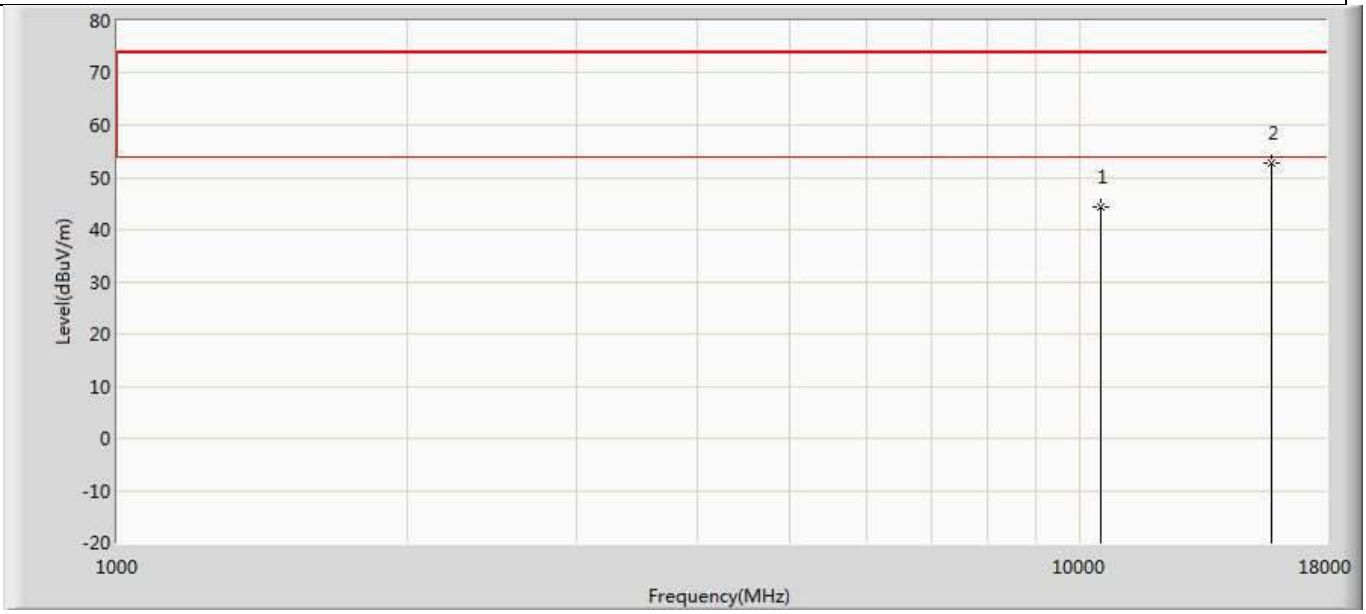
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10480.000	45.837	35.286	-28.163	74.000	10.551	PK
2	*	15720.000	52.837	35.714	-21.163	74.000	17.123	PK

Profile: 2090075R	Page No.: 15
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 17:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 2:Transmit at 5260MHz by 802.11 n(20MHz)	



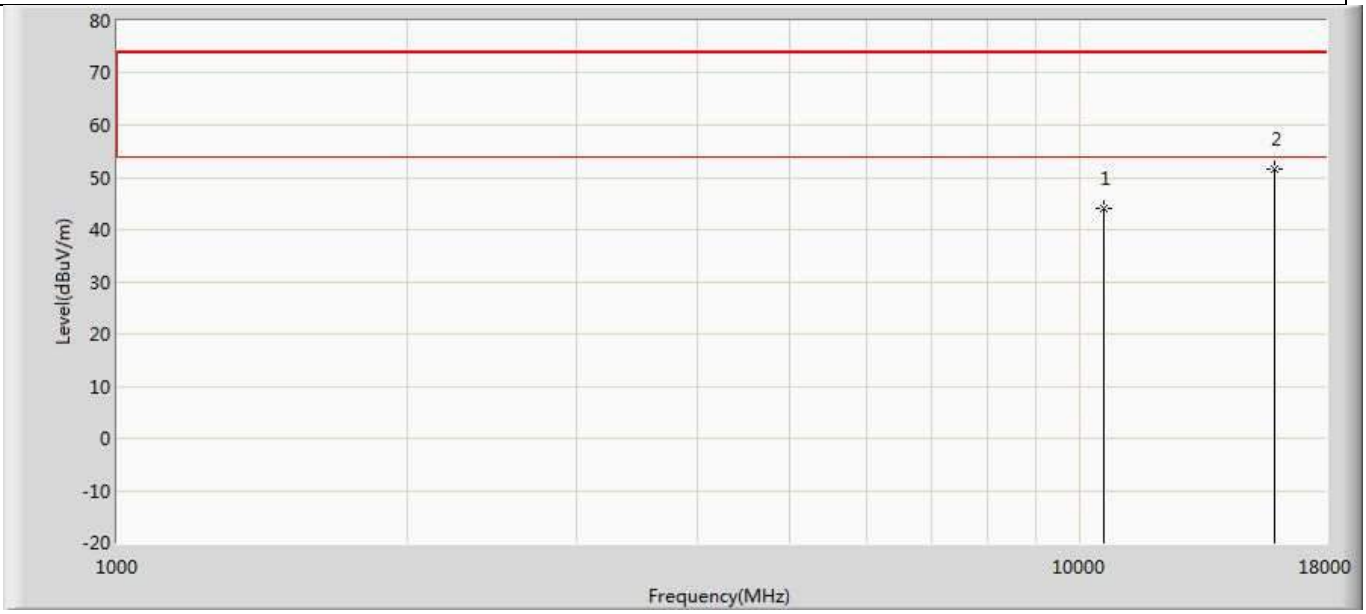
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10520.000	44.902	33.977	-29.098	74.000	10.925	PK
2	*	15780.000	52.726	35.410	-21.274	74.000	17.316	PK

Profile: 2090075R	Page No.: 16
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 17:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 2:Transmit at 5260MHz by 802.11 n(20MHz)	



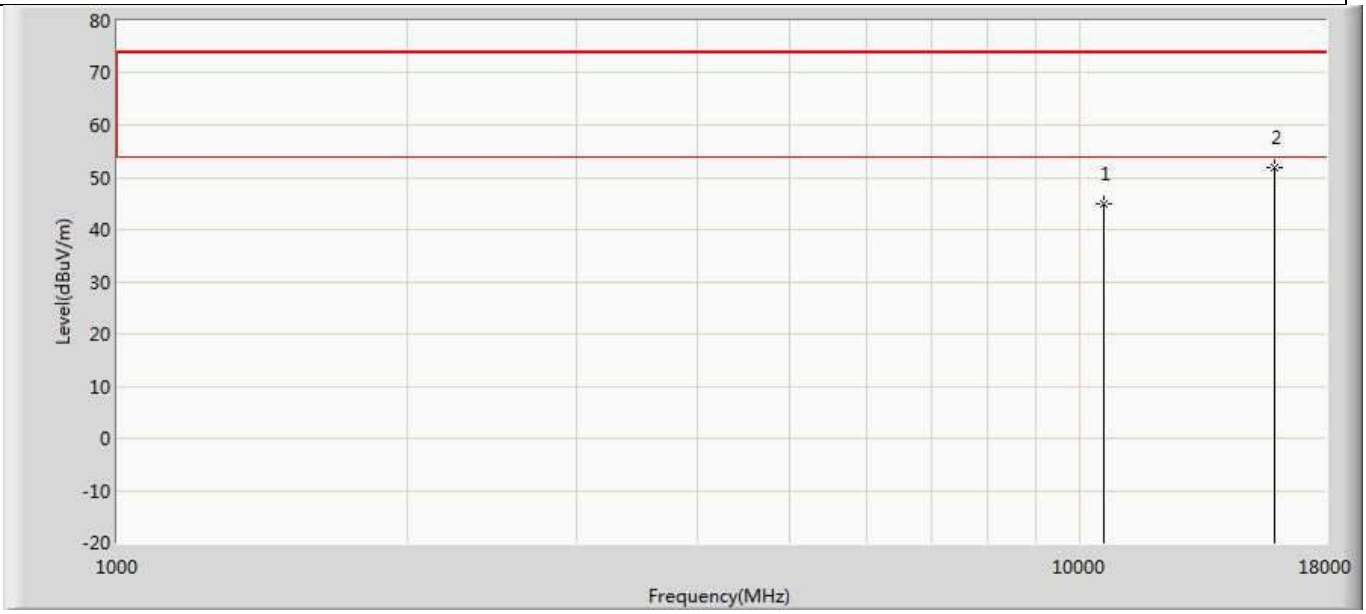
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10520.000	44.283	33.358	-29.717	74.000	10.925	PK
2	*	15780.000	52.874	35.558	-21.126	74.000	17.316	PK

Profile: 2090075R	Page No.: 21
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 17:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 2:Transmit at 5300MHz by 802.11 n(20MHz)	



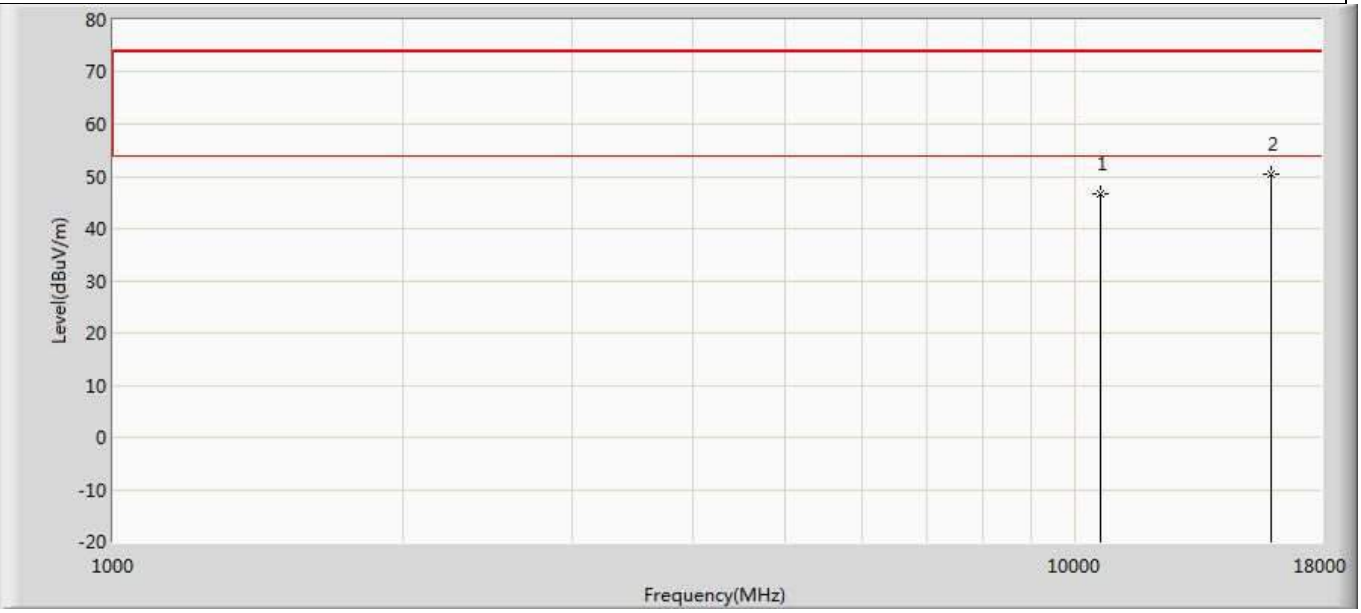
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10600.000	43.987	33.328	-30.013	74.000	10.658	PK
2	*	15900.000	51.736	34.581	-22.264	74.000	17.155	PK

Profile: 2090075R	Page No.: 22
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 17:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 2:Transmit at 5300MHz by 802.11 n(20MHz)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10600.000	44.837	34.178	-29.163	74.000	10.658	PK
2	*	15900.000	51.827	34.672	-22.173	74.000	17.155	PK

Profile: 2090075R	Page No.: 79
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 2:Transmit at 5320MHz by 802.11n(20MHz)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10640.000	46.733	36.308	-27.267	74.000	10.425	PK
2	*	15960.000	50.373	32.779	-23.627	74.000	17.594	PK

Profile: 2090075R	Page No.: 80
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 2:Transmit at 5320MHz by 802.11n(20MHz)	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10640.000	43.634	33.209	-30.366	74.000	10.425	PK
2	*	15960.000	50.698	33.104	-23.302	74.000	17.594	PK

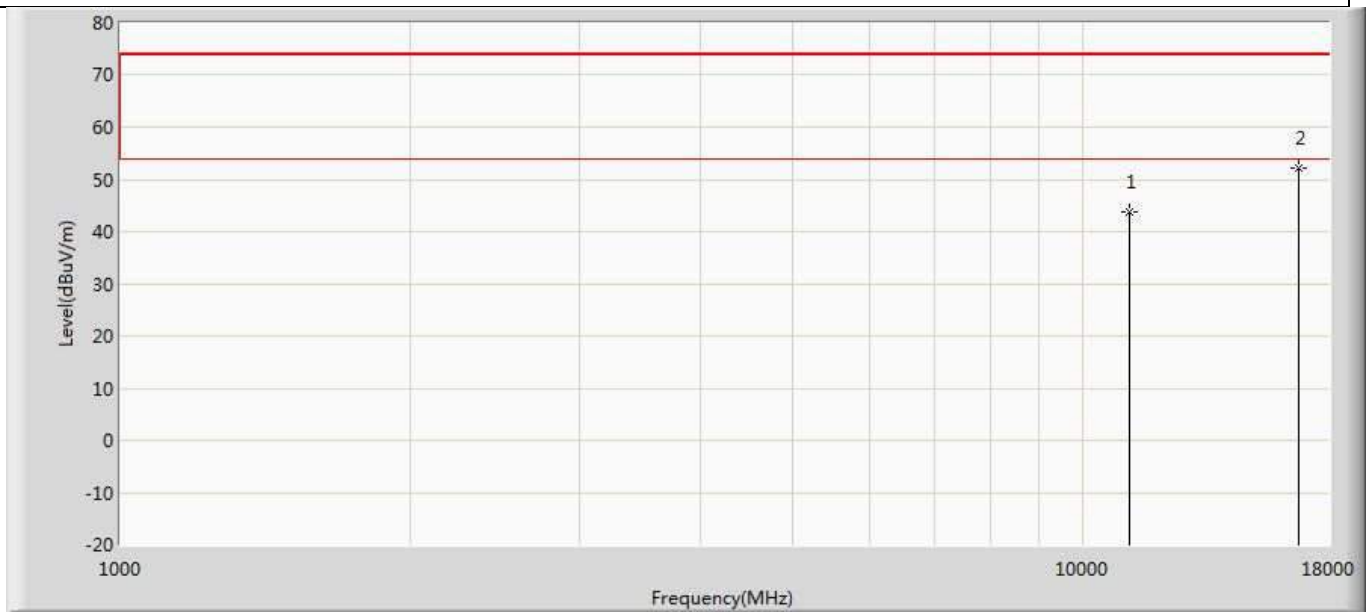
Profile: 2090075R	Page No.: 81
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 2:Transmit at 5500MHz by 802.11n(20MHz)	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11000.000	45.533	34.138	-28.467	74.000	11.394	PK
2	*	16500.000	52.563	33.603	-21.437	74.000	18.960	PK

Profile: 2090075R	Page No.: 82
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 2:Transmit at 5500MHz by 802.11n(20MHz)	

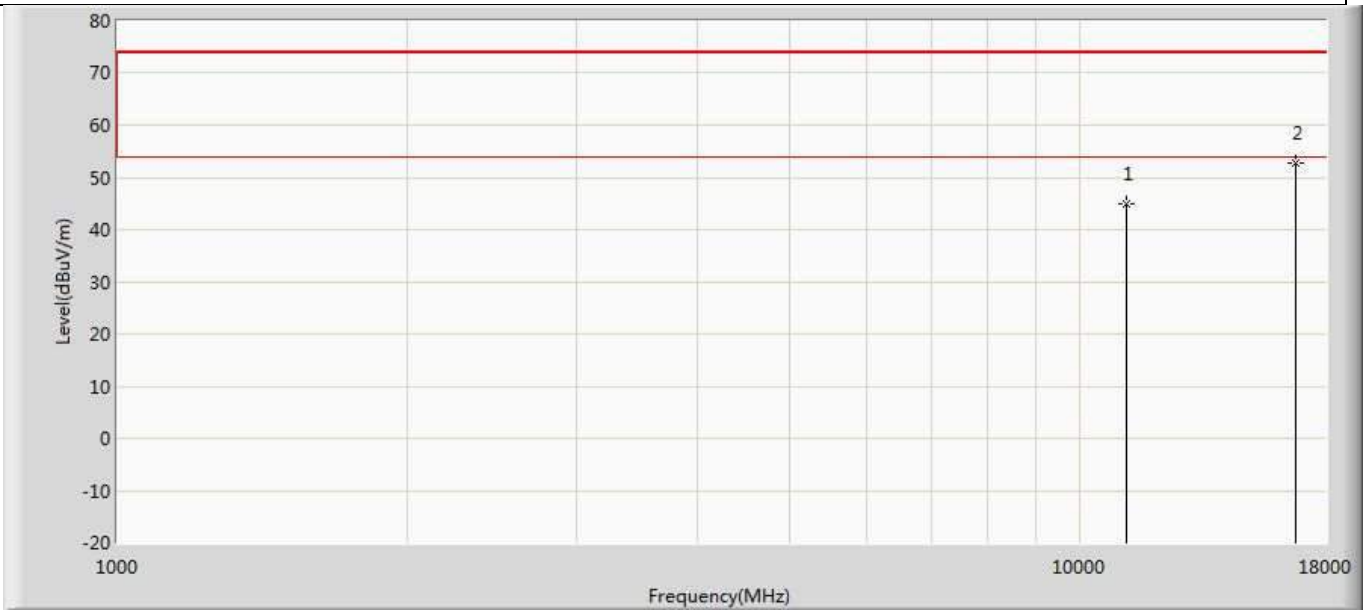
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11000.000	45.212	33.817	-28.788	74.000	11.394	PK
2	*	16500.000	52.962	34.002	-21.038	74.000	18.960	PK

Profile: 2090075R	Page No.: 27
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 17:51
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 2:Transmit at 5580MHz by 802.11 n(20MHz)	



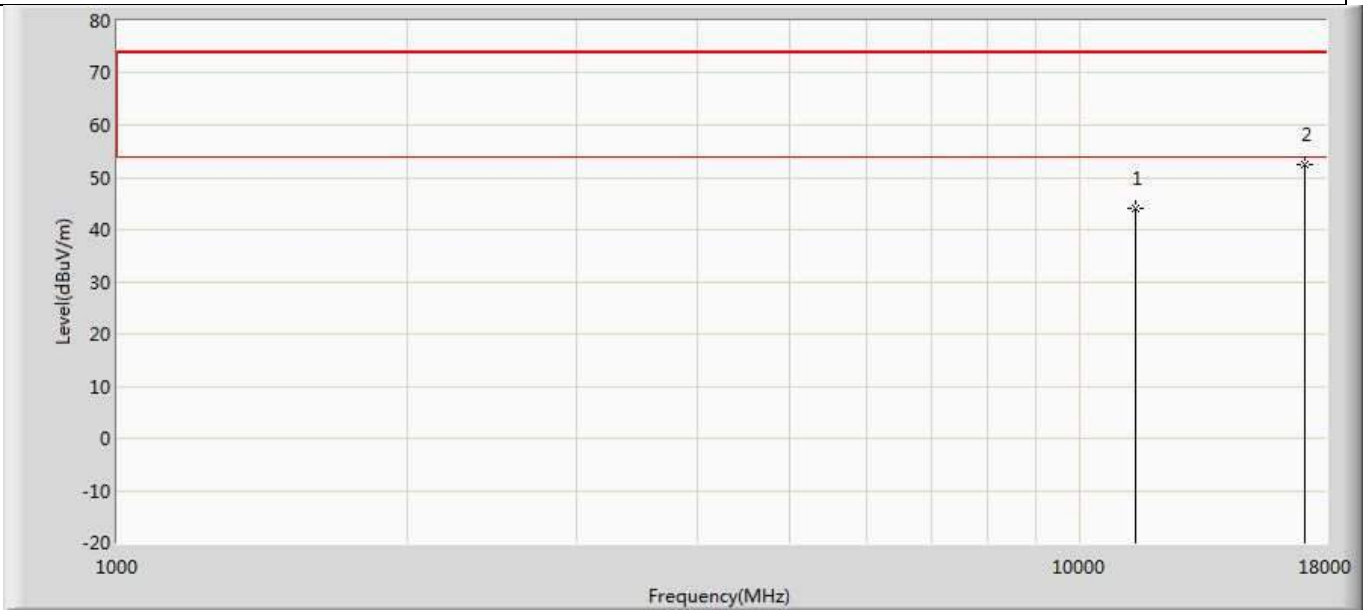
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11160.000	43.847	31.848	-30.153	74.000	11.999	PK
2	*	16740.000	52.165	33.560	-21.835	74.000	18.605	PK

Profile: 2090075R	Page No.: 28
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 17:51
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 2:Transmit at 5580MHz by 802.11 n(20MHz)	



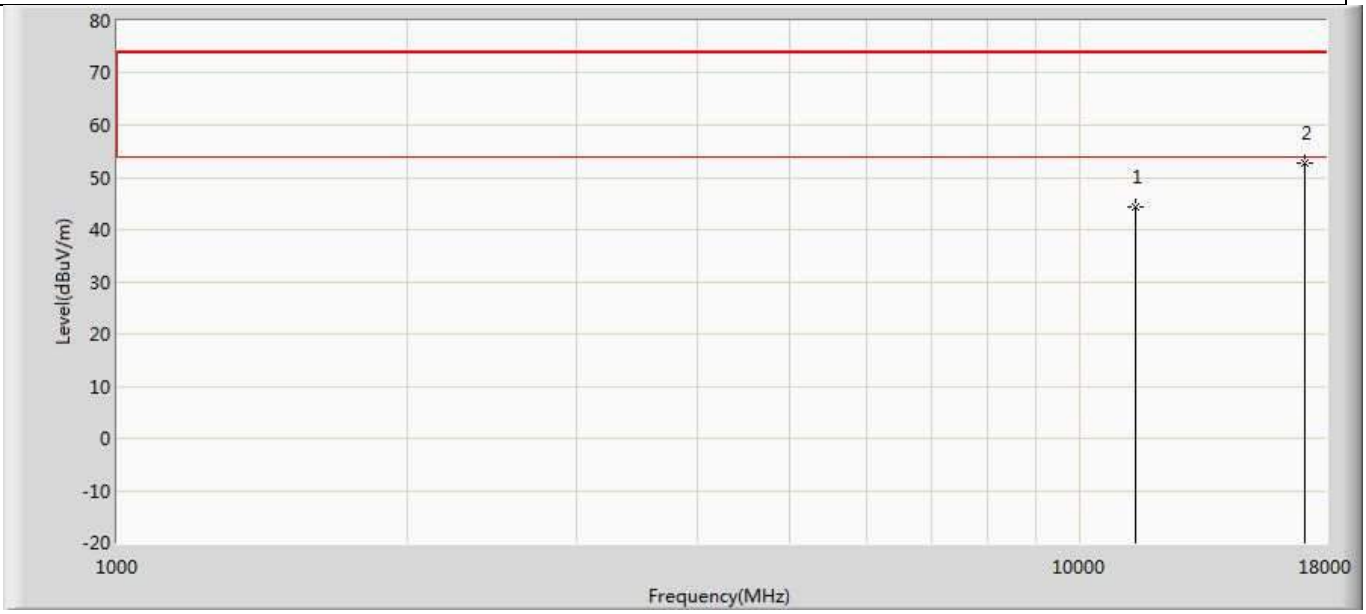
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11160.000	44.827	32.828	-29.173	74.000	11.999	PK
2	*	16740.000	52.726	34.121	-21.274	74.000	18.605	PK

Profile: 2090075R	Page No.: 33
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 17:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 2:Transmit at 5700MHz by 802.11 n(20MHz)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11400.000	43.987	32.132	-30.013	74.000	11.855	PK
2	*	17100.000	52.387	32.337	-21.613	74.000	20.050	PK

Profile: 2090075R	Page No.: 34
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 17:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 2:Transmit at 5700MHz by 802.11 n(20MHz)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11400.000	44.329	32.474	-29.671	74.000	11.855	PK
2	*	17100.000	52.837	32.787	-21.163	74.000	20.050	PK

Profile: 2090075R	Page No.: 83
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 2:Transmit at 5745MHz by 802.11n(20MHz)	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11490.000	45.060	32.639	-28.940	74.000	12.421	PK
2	*	17235.000	53.326	32.497	-20.674	74.000	20.829	PK

Profile: 2090075R	Page No.: 84
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 2:Transmit at 5745MHz by 802.11n(20MHz)	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11490.000	45.899	33.478	-28.101	74.000	12.421	PK
2	*	17235.000	53.551	32.722	-20.449	74.000	20.829	PK

Profile: 2090075R	Page No.: 85
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 2:Transmit at 5785MHz by 802.11n(20MHz)	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11570.000	45.329	32.959	-28.671	74.000	12.370	PK
2	*	17355.000	51.140	30.584	-22.860	74.000	20.555	PK

Profile: 2090075R	Page No.: 86
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 2:Transmit at 5785MHz by 802.11n(20MHz)	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11570.000	45.714	33.344	-28.286	74.000	12.370	PK
2	*	17355.000	52.779	32.223	-21.221	74.000	20.555	PK

Profile: 2090075R	Page No.: 87
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 2:Transmit at 5825MHz by 802.11n(20MHz)	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11650.000	45.614	33.064	-28.386	74.000	12.549	PK
2	*	17475.000	53.183	32.490	-20.817	74.000	20.692	PK

Profile: 2090075R	Page No.: 88
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 2:Transmit at 5825MHz by 802.11n(20MHz)	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11650.000	45.507	32.957	-28.493	74.000	12.549	PK
2	*	17475.000	53.259	32.566	-20.741	74.000	20.692	PK

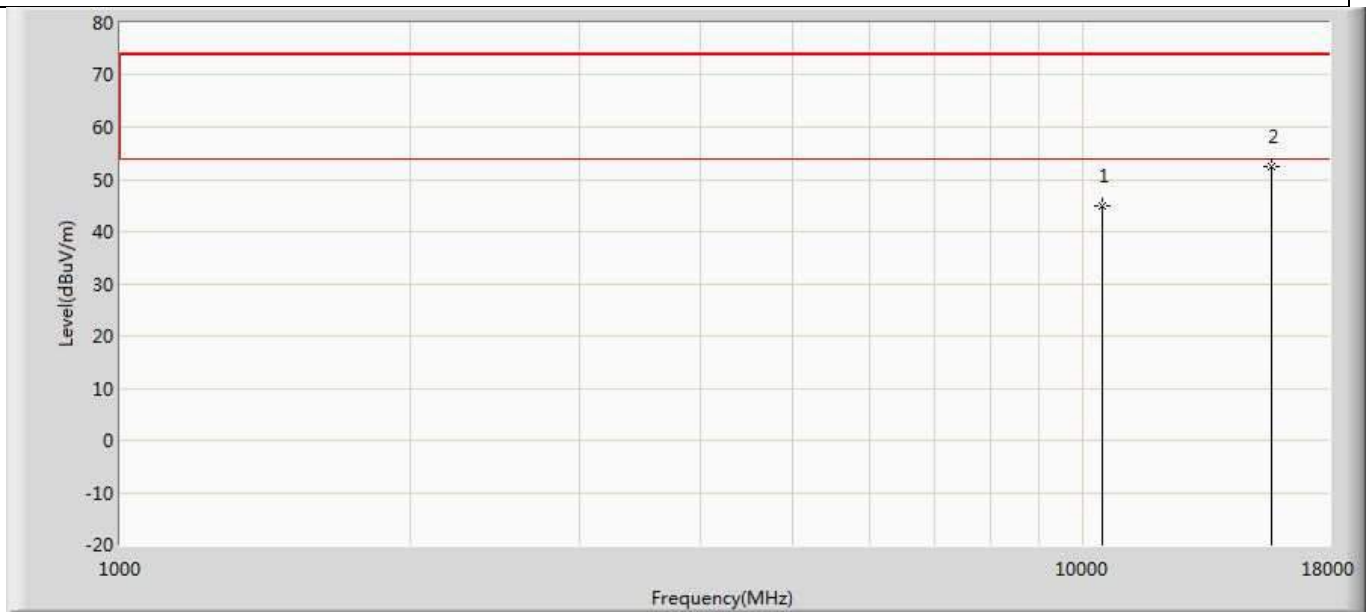
Profile: 2090075R	Page No.: 101
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 3:Transmit at 5190MHz by 802.11n(40MHz)	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10380.000	44.369	34.240	-29.631	74.000	10.129	PK
2	*	15570.000	51.169	34.593	-22.831	74.000	16.576	PK

Profile: 2090075R	Page No.: 102
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 3:Transmit at 5190MHz by 802.11n(40MHz)	

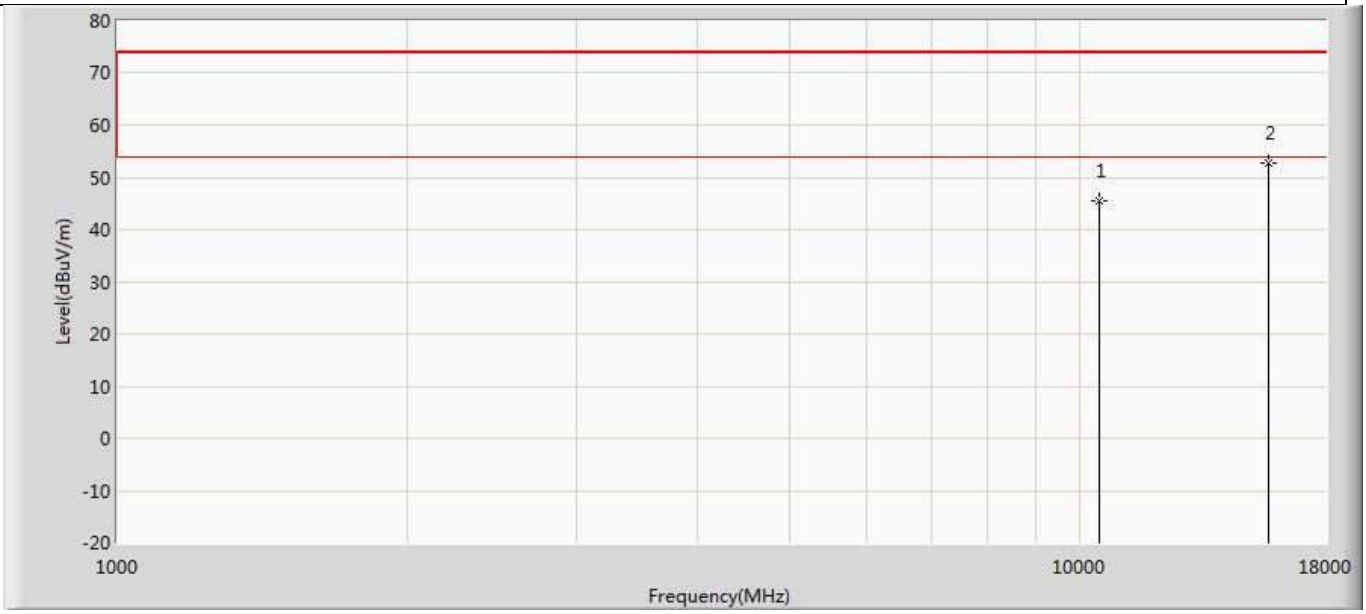
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10380.000	44.535	34.406	-29.465	74.000	10.129	PK
2	*	15570.000	51.769	35.193	-22.231	74.000	16.576	PK

Profile: 2090075R	Page No.: 37
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 17:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 3:Transmit at 5230MHz by 802.11n(40MHz)	



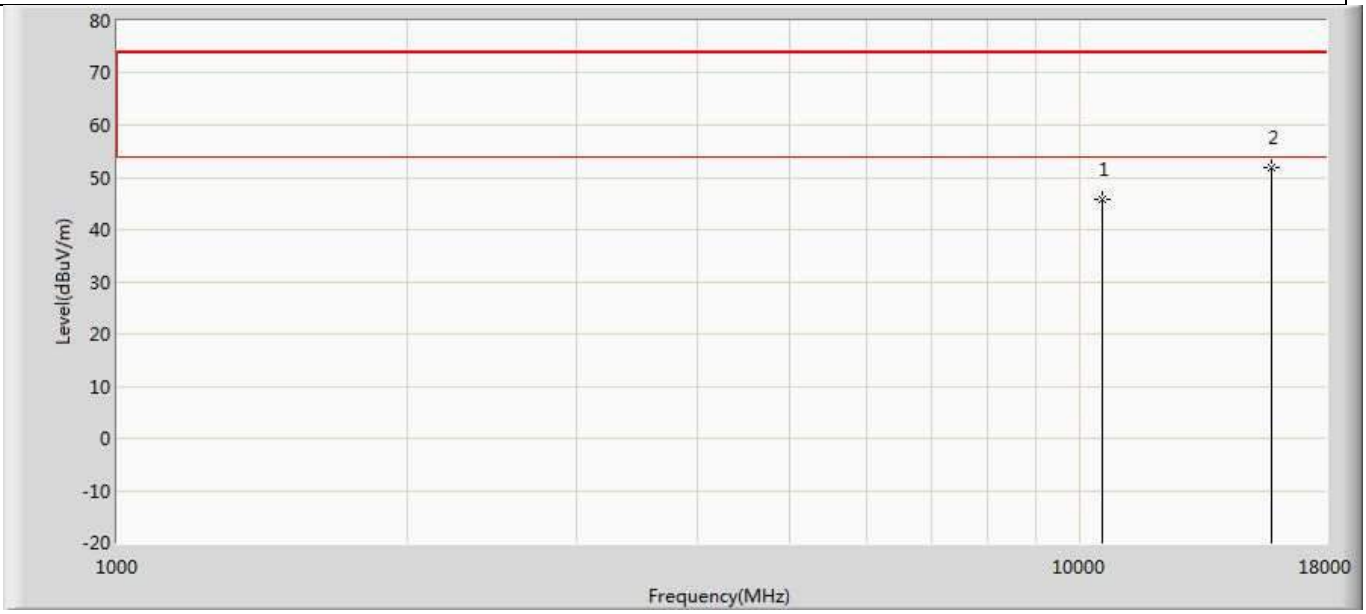
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10460.000	44.985	34.629	-29.015	74.000	10.356	PK
2	*	15690.000	52.384	35.497	-21.616	74.000	16.887	PK

Profile: 2090075R	Page No.: 38
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 17:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 3:Transmit at 5230MHz by 802.11n(40MHz)	



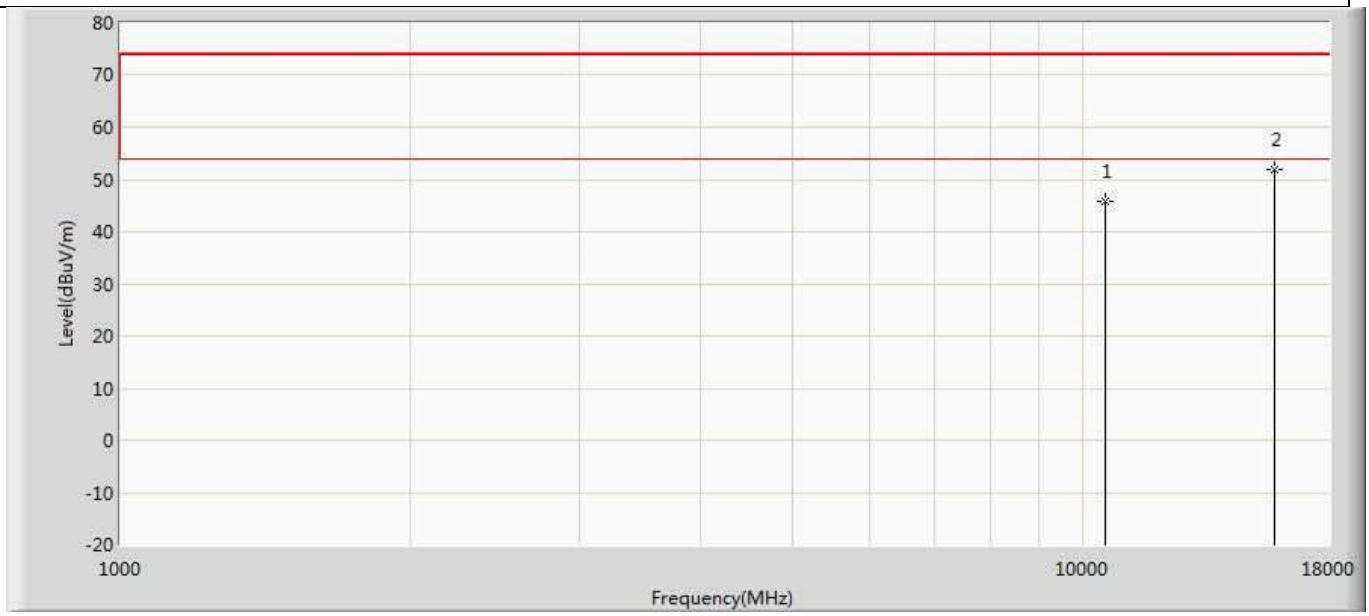
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10460.000	45.376	35.020	-28.624	74.000	10.356	PK
2	*	15690.000	52.736	35.849	-21.264	74.000	16.887	PK

Profile: 2090075R	Page No.: 41
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 18:03
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 3:Transmit at 5270MHz by 802.11n(40MHz)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10540.000	45.837	34.688	-28.163	74.000	11.149	PK
2	*	15810.000	51.827	34.294	-22.173	74.000	17.533	PK

Profile: 2090075R	Page No.: 42
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 18:05
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 3:Transmit at 5270MHz by 802.11n(40MHz)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10540.000	45.827	34.678	-28.173	74.000	11.149	PK
2	*	15810.000	51.827	34.294	-22.173	74.000	17.533	PK

Profile: 2090075R	Page No.: 103
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 3:Transmit at 5310MHz by 802.11n(40MHz)	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10620.000	46.348	34.916	-27.652	74.000	11.433	PK
2	*	15930.000	51.422	33.324	-22.578	74.000	18.099	PK

Profile: 2090075R	Page No.: 104
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 3:Transmit at 5310MHz by 802.11n(40MHz)	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10620.000	45.099	33.667	-28.901	74.000	11.433	PK
2	*	15930.000	51.207	33.109	-22.793	74.000	18.099	PK

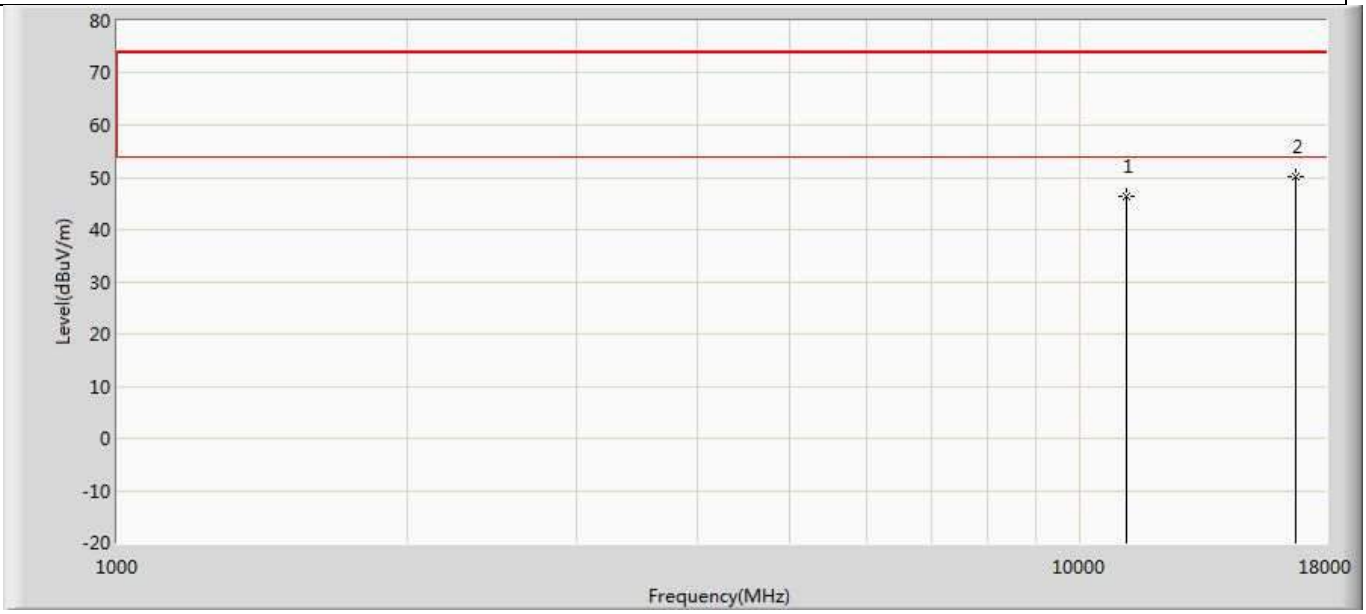
Profile: 2090075R	Page No.: 105
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 3:Transmit at 5510MHz by 802.11n(40MHz)	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11020.000	44.607	33.477	-29.393	74.000	11.130	PK
2	*	16530.000	52.104	33.576	-21.896	74.000	18.529	PK

Profile: 2090075R	Page No.: 106
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 3:Transmit at 5510MHz by 802.11n(40MHz)	

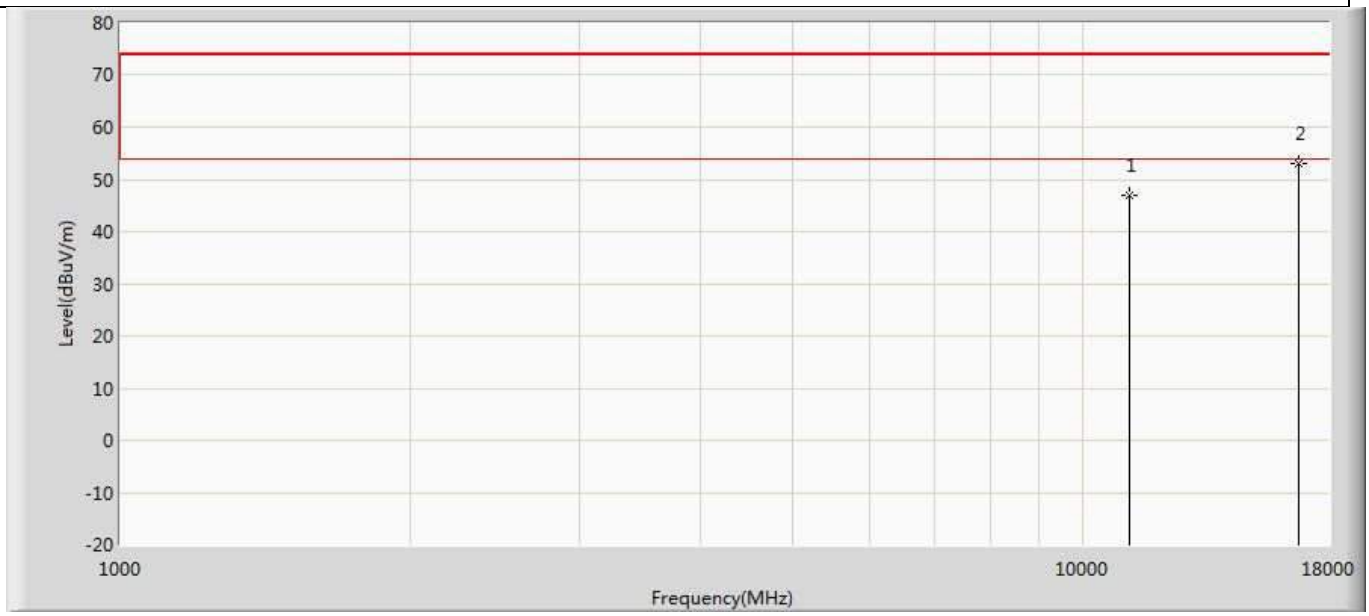
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11020.000	44.265	33.135	-29.735	74.000	11.130	PK
2	*	16530.000	52.103	33.575	-21.897	74.000	18.529	PK

Profile: 2090075R	Page No.: 45
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 18:07
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 3:Transmit at 5590MHz by 802.11n(40MHz)	



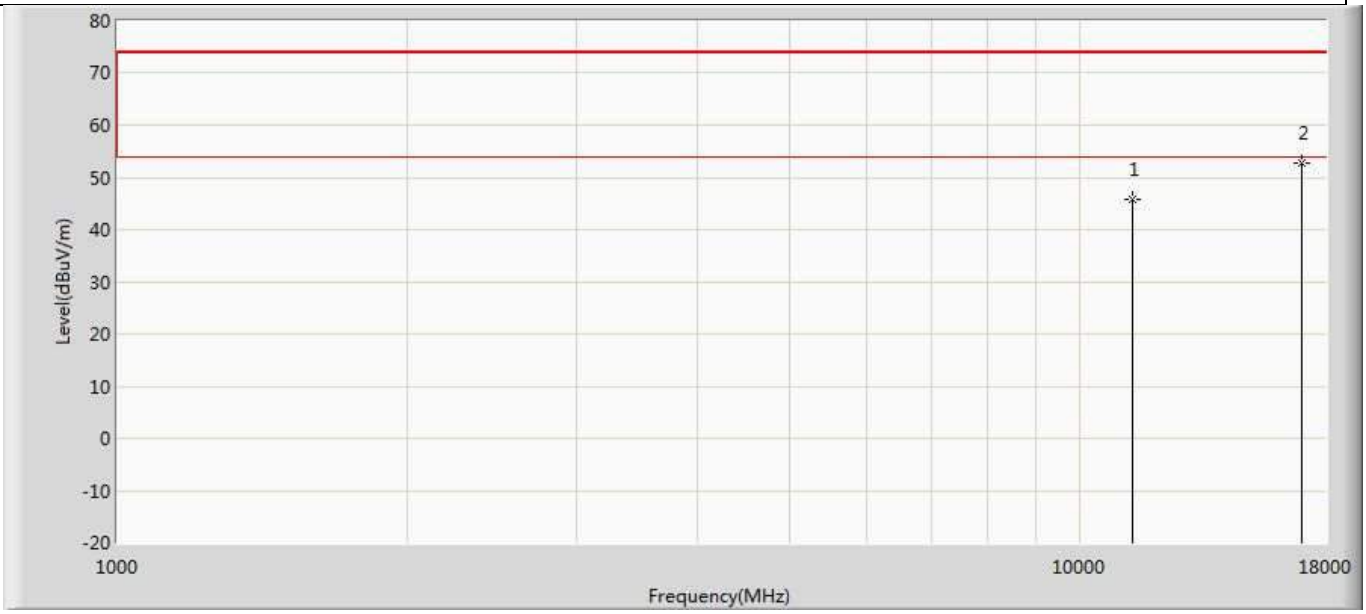
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11180.000	46.283	34.911	-27.717	74.000	11.372	PK
2	*	16770.000	50.273	31.598	-23.727	74.000	18.675	PK

Profile: 2090075R	Page No.: 46
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 18:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 3:Transmit at 5590MHz by 802.11n(40MHz)	



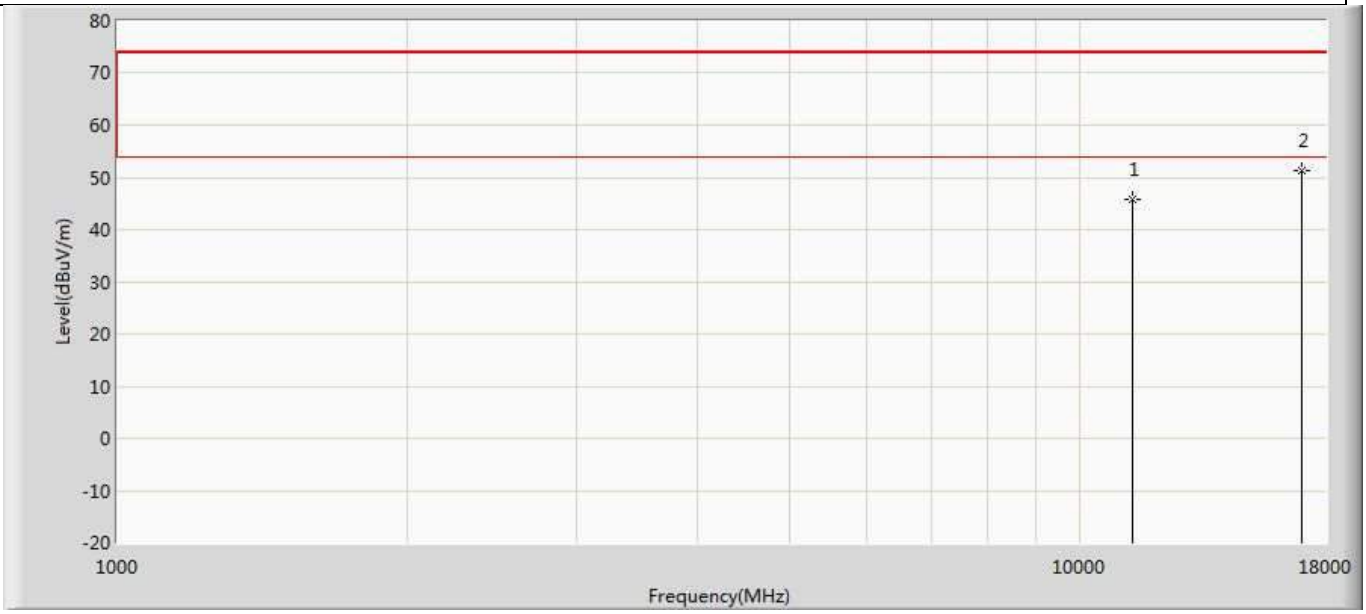
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11180.000	46.827	35.455	-27.173	74.000	11.372	PK
2	*	16770.000	52.938	34.263	-21.062	74.000	18.675	PK

Profile: 2090075R	Page No.: 49
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 18:12
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 3:Transmit at 5670MHz by 802.11n(40MHz)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11340.000	45.827	33.820	-28.173	74.000	12.007	PK
2	*	17010.000	52.837	33.187	-21.163	74.000	19.650	PK

Profile: 2090075R	Page No.: 50
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 18:13
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 3:Transmit at 5670MHz by 802.11n(40MHz)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11340.000	45.827	33.820	-28.173	74.000	12.007	PK
2	*	17010.000	51.283	31.633	-22.717	74.000	19.650	PK

Profile: 2090075R	Page No.: 107
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 3:Transmit at 5755MHz by 802.11n(40MHz)	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11510.000	45.922	33.699	-28.078	74.000	12.224	PK
2	*	17265.000	53.489	32.811	-20.511	74.000	20.678	PK

Profile: 2090075R	Page No.: 108
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 3:Transmit at 5755MHz by 802.11n(40MHz)	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11510.000	45.775	33.552	-28.225	74.000	12.224	PK
2	*	17265.000	52.189	31.511	-21.811	74.000	20.678	PK

Profile: 2090075R	Page No.: 109
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 3:Transmit at 5795MHz by 802.11n(40MHz)	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11590.000	46.030	33.489	-27.970	74.000	12.541	PK
2	*	17385.000	53.458	32.622	-20.542	74.000	20.835	PK

Profile: 2090075R	Page No.: 110
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 3:Transmit at 5795MHz by 802.11n(40MHz)	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11590.000	46.105	33.564	-27.895	74.000	12.541	PK
2	*	17385.000	51.705	30.869	-22.295	74.000	20.835	PK

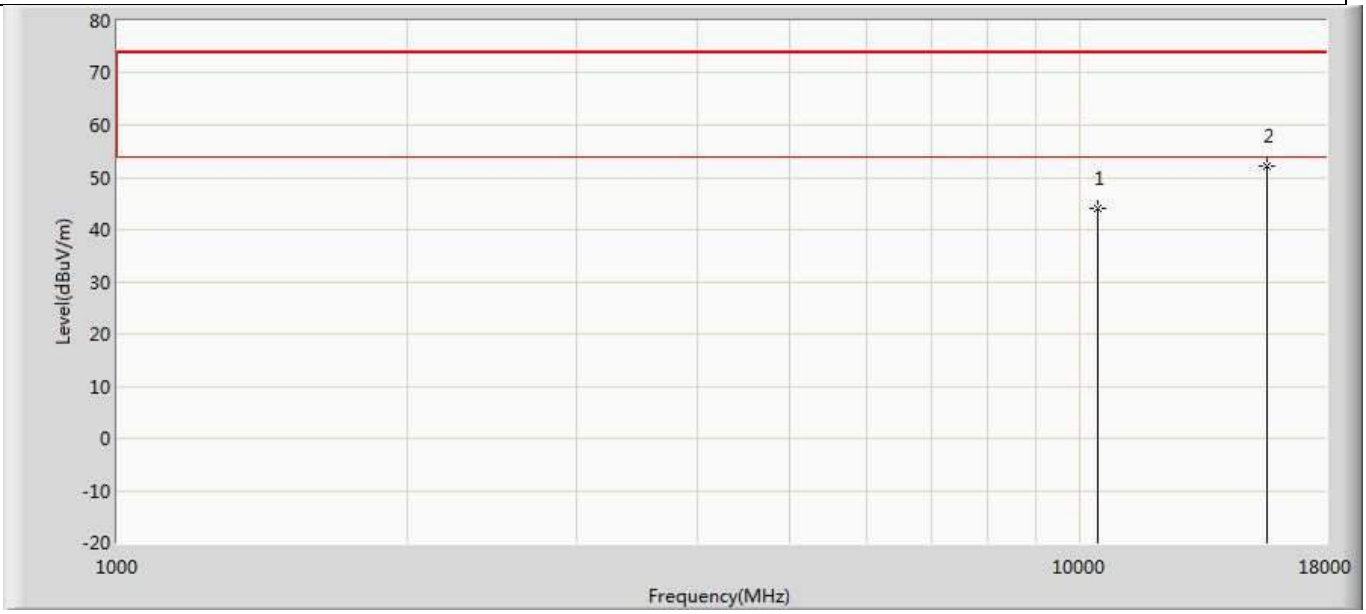
Profile: 2090075R	Page No.: 89
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 4:Transmit at 5180MHz by 802.11ac(20MHz)	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10360.000	45.173	35.062	-28.827	74.000	10.110	PK
2	*	15540.000	51.279	34.602	-22.721	74.000	16.677	PK

Profile: 2090075R	Page No.: 90
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 4:Transmit at 5180MHz by 802.11ac(20MHz)	

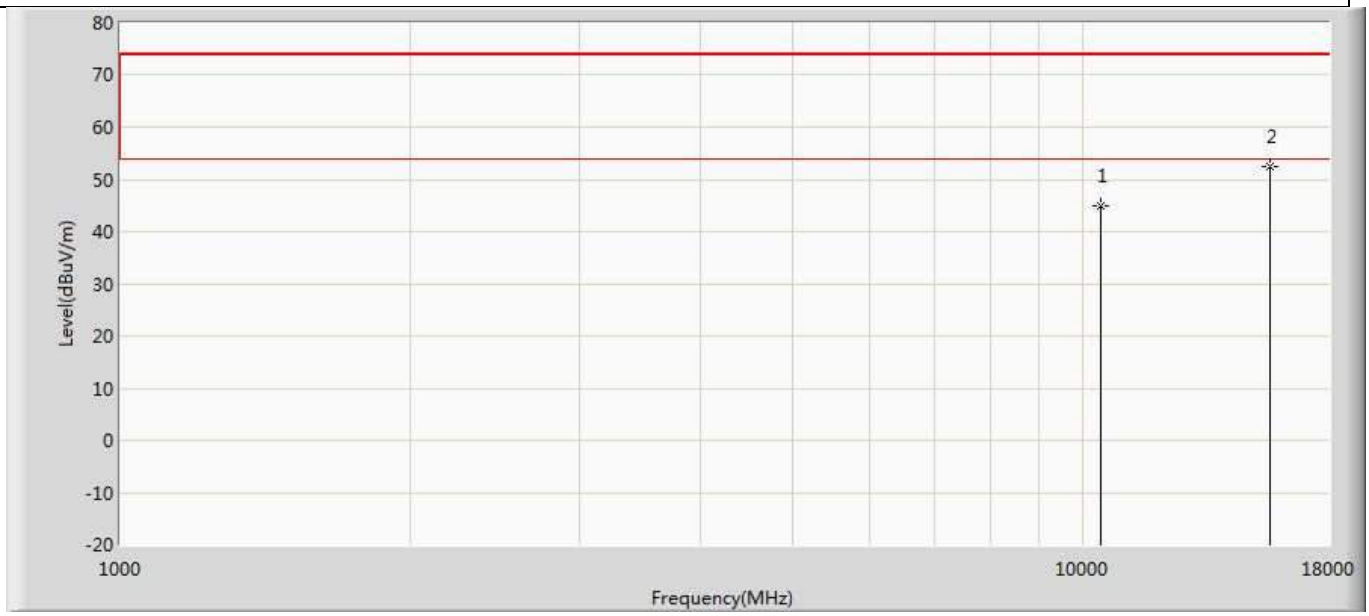
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10360.000	44.693	34.582	-29.307	74.000	10.110	PK
2	*	15540.000	50.433	33.756	-23.567	74.000	16.677	PK

Profile: 2090075R	Page No.: 5
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 17:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 4:Transmit at 5220MHz by 802.11ac(20MHz)	



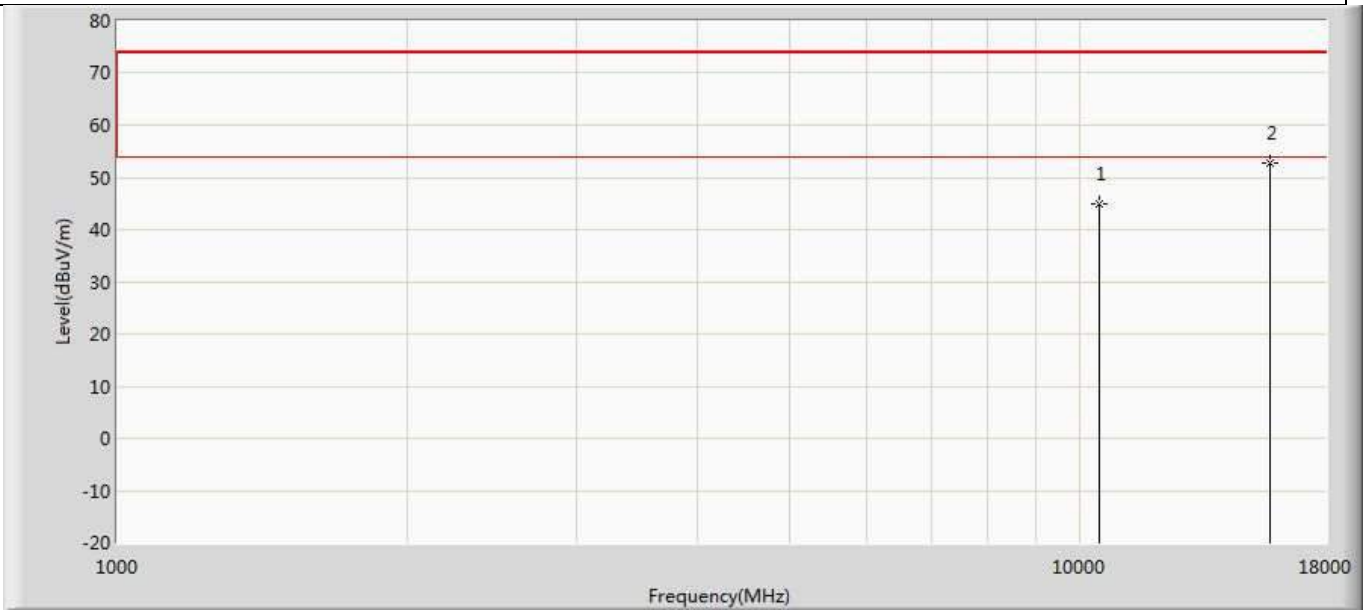
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10440.000	44.176	33.660	-29.824	74.000	10.517	PK
2	*	15660.000	52.164	35.621	-21.836	74.000	16.542	PK

Profile: 2090075R	Page No.: 6
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 17:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 4:Transmit at 5220MHz by 802.11ac(20MHz)	



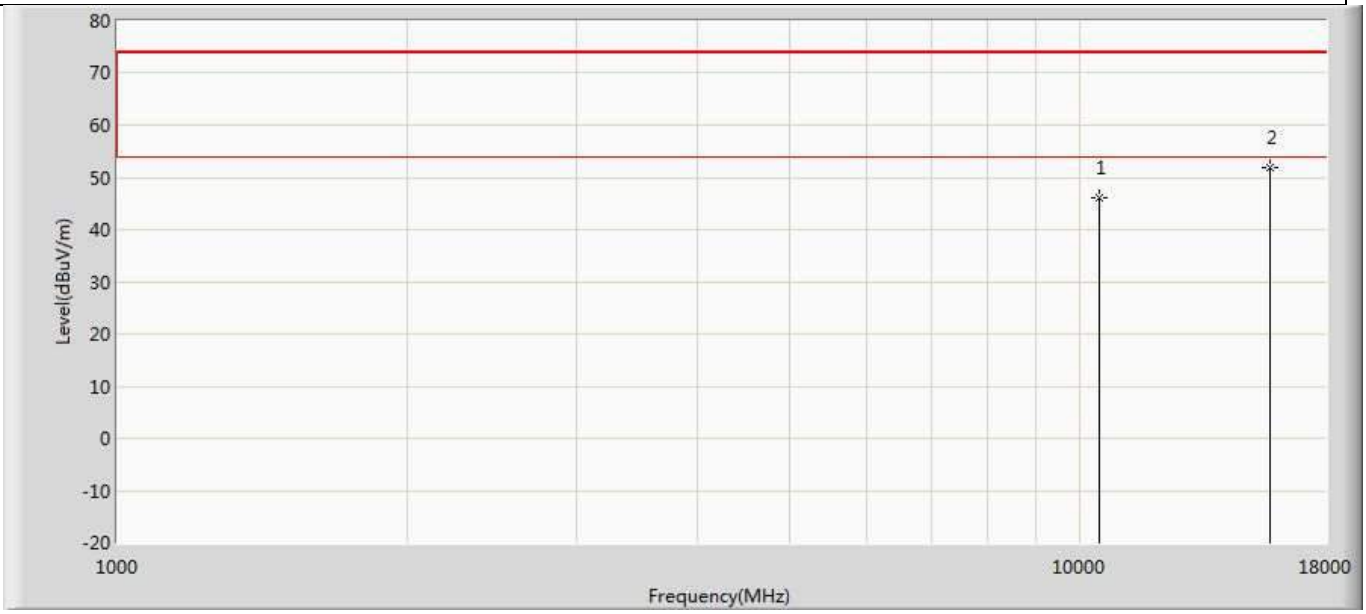
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10440.000	44.867	34.351	-29.133	74.000	10.517	PK
2	*	15660.000	52.348	35.805	-21.652	74.000	16.542	PK

Profile: 2090075R	Page No.: 11
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 17:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 4:Transmit at 5240MHz by 802.11ac(20MHz)	



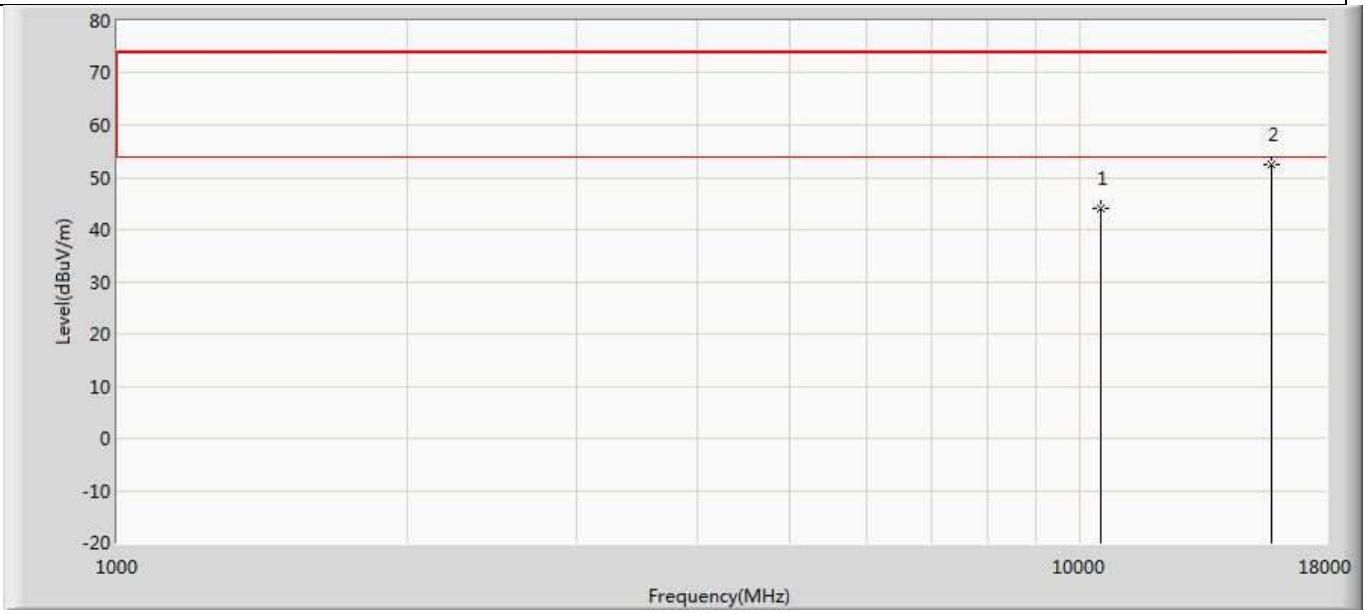
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10480.000	44.847	34.296	-29.153	74.000	10.551	PK
2	*	15720.000	52.876	35.753	-21.124	74.000	17.123	PK

Profile: 2090075R	Page No.: 12
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 17:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 4:Transmit at 5240MHz by 802.11ac(20MHz)	



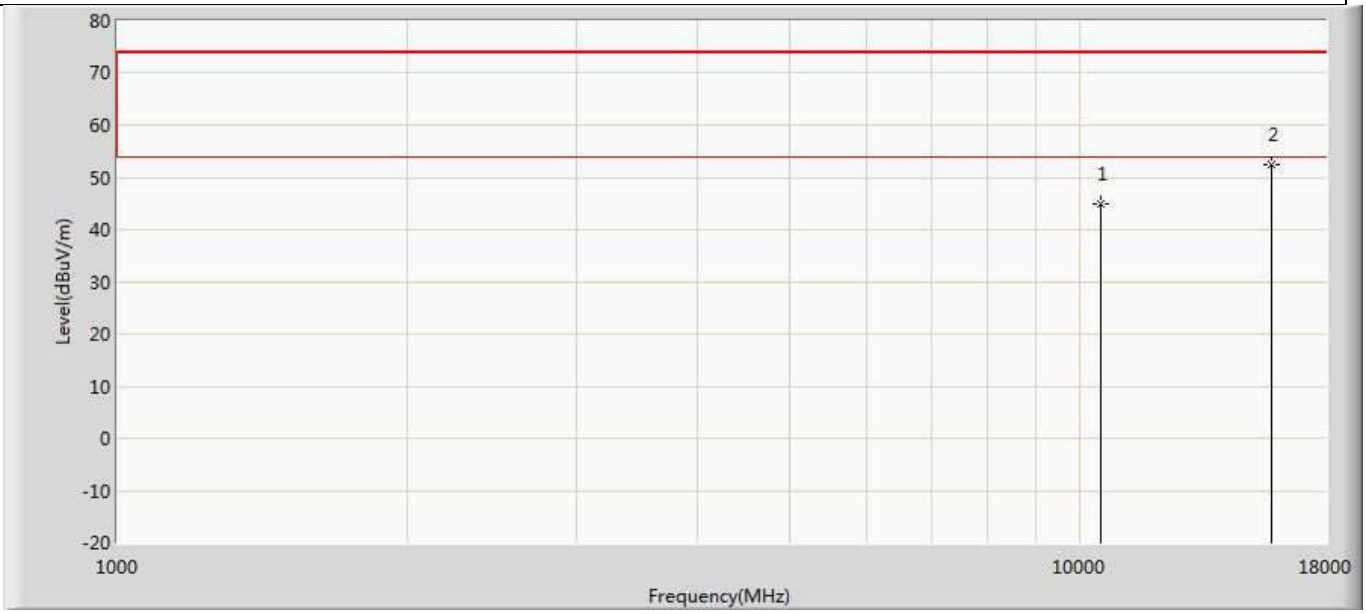
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10480.000	45.978	35.427	-28.022	74.000	10.551	PK
2	*	15720.000	51.746	34.623	-22.254	74.000	17.123	PK

Profile: 2090075R	Page No.: 17
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 17:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 4:Transmit at 5260MHz by 802.11ac(20MHz)	



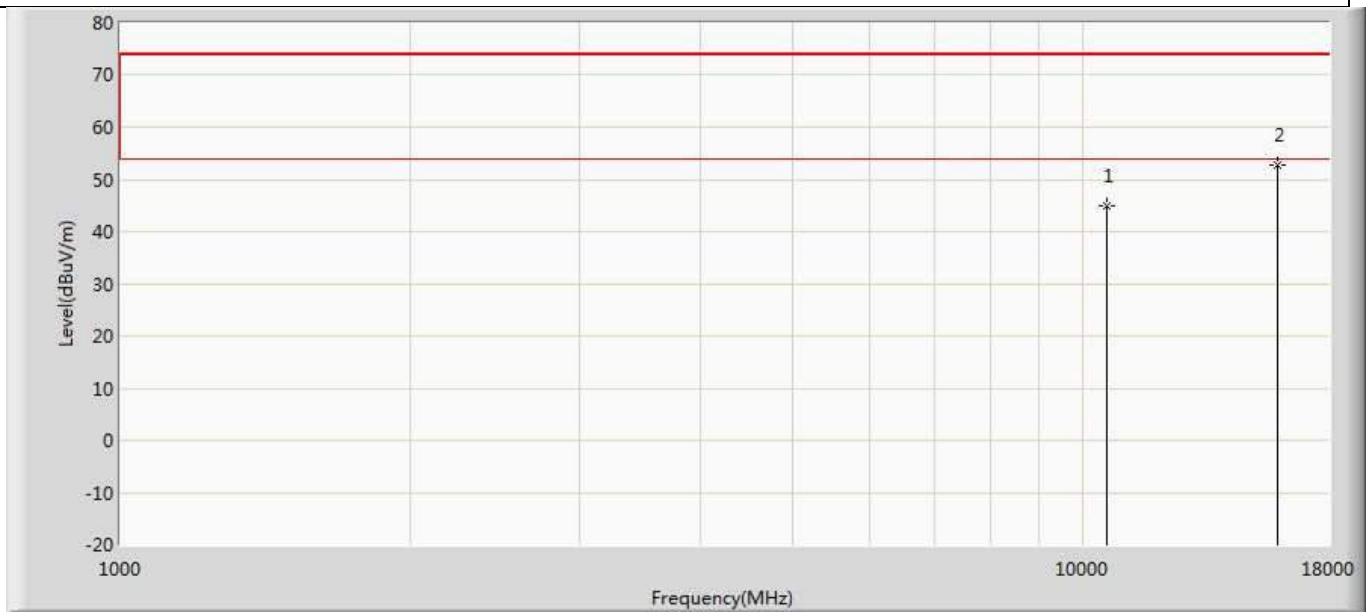
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10520.000	44.029	33.104	-29.971	74.000	10.925	PK
2	*	15780.000	52.373	35.057	-21.627	74.000	17.316	PK

Profile: 2090075R	Page No.: 18
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 17:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 4:Transmit at 5260MHz by 802.11ac(20MHz)	



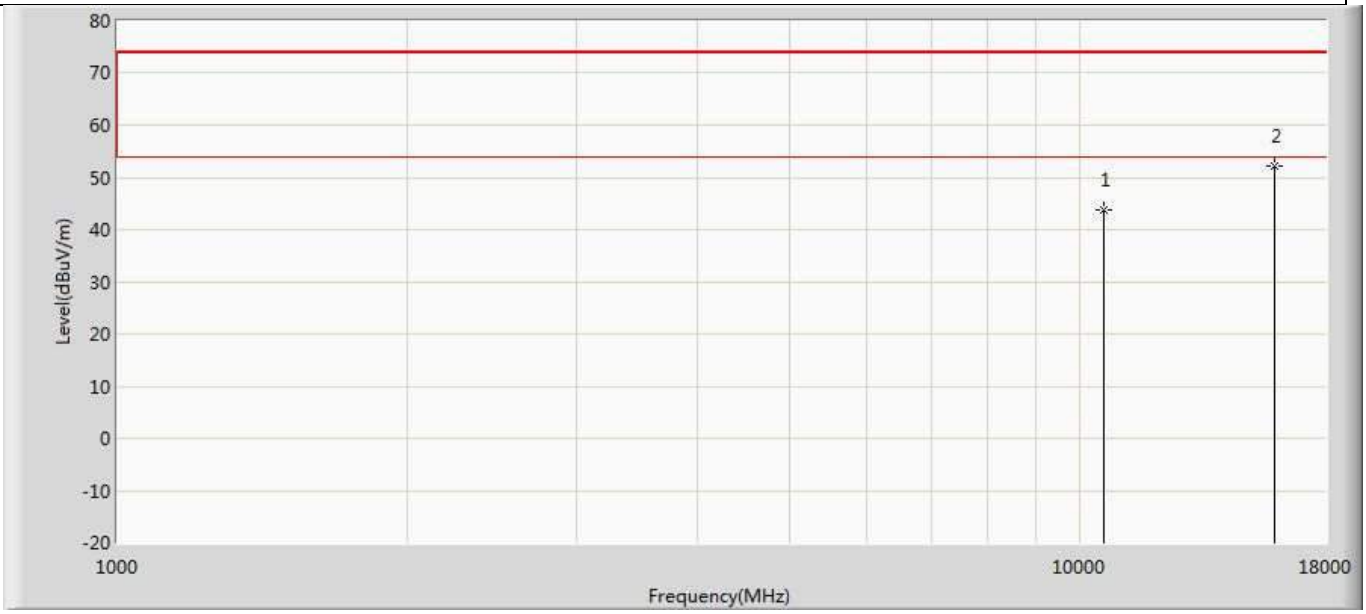
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10520.000	44.832	33.907	-29.168	74.000	10.925	PK
2	*	15780.000	52.387	35.071	-21.613	74.000	17.316	PK

Profile: 2090075R	Page No.: 23
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 17:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 4:Transmit at 5300MHz by 802.11ac(20MHz)	



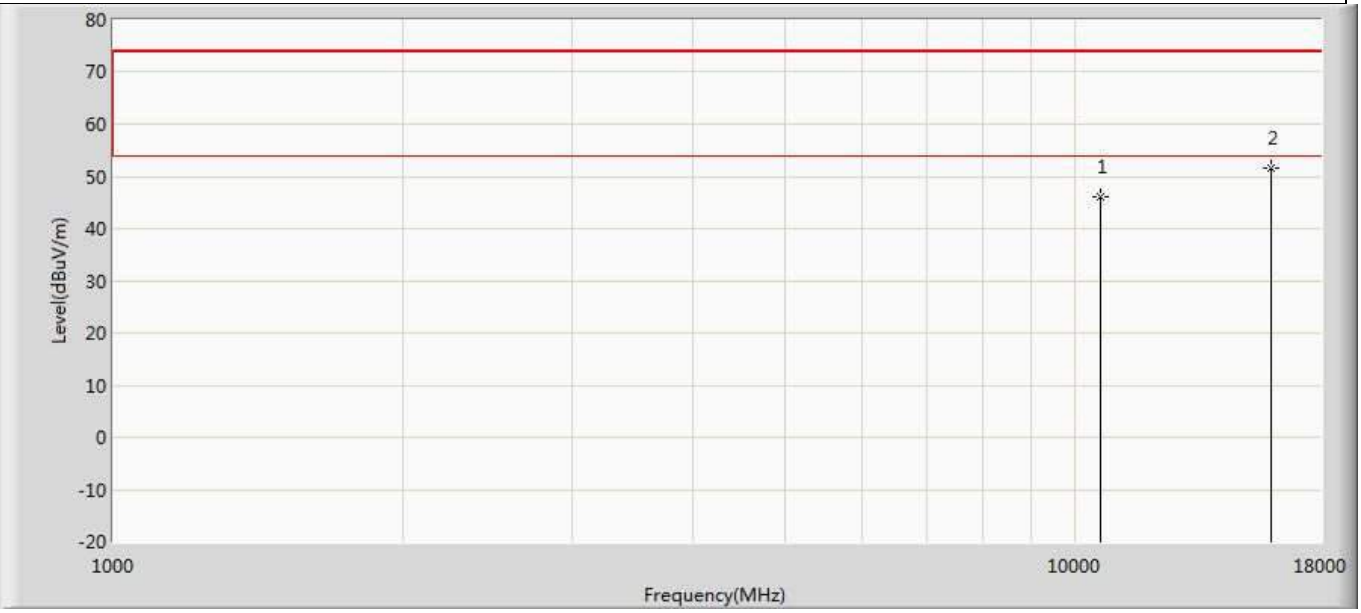
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10600.000	44.827	34.168	-29.173	74.000	10.658	PK
2	*	15900.000	52.736	35.581	-21.264	74.000	17.155	PK

Profile: 2090075R	Page No.: 24
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 17:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 4:Transmit at 5300MHz by 802.11ac(20MHz)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10600.000	43.827	33.168	-30.173	74.000	10.658	PK
2	*	15900.000	52.176	35.021	-21.824	74.000	17.155	PK

Profile: 2090075R	Page No.: 91
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 4:Transmit at 5320MHz by 802.11ac(20MHz)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10640.000	46.178	35.753	-27.822	74.000	10.425	PK
2	*	15960.000	51.732	34.138	-22.268	74.000	17.594	PK

Profile: 2090075R	Page No.: 92
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 4:Transmit at 5320MHz by 802.11ac(20MHz)	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10640.000	44.709	34.284	-29.291	74.000	10.425	PK
2	*	15960.000	52.133	34.539	-21.867	74.000	17.594	PK

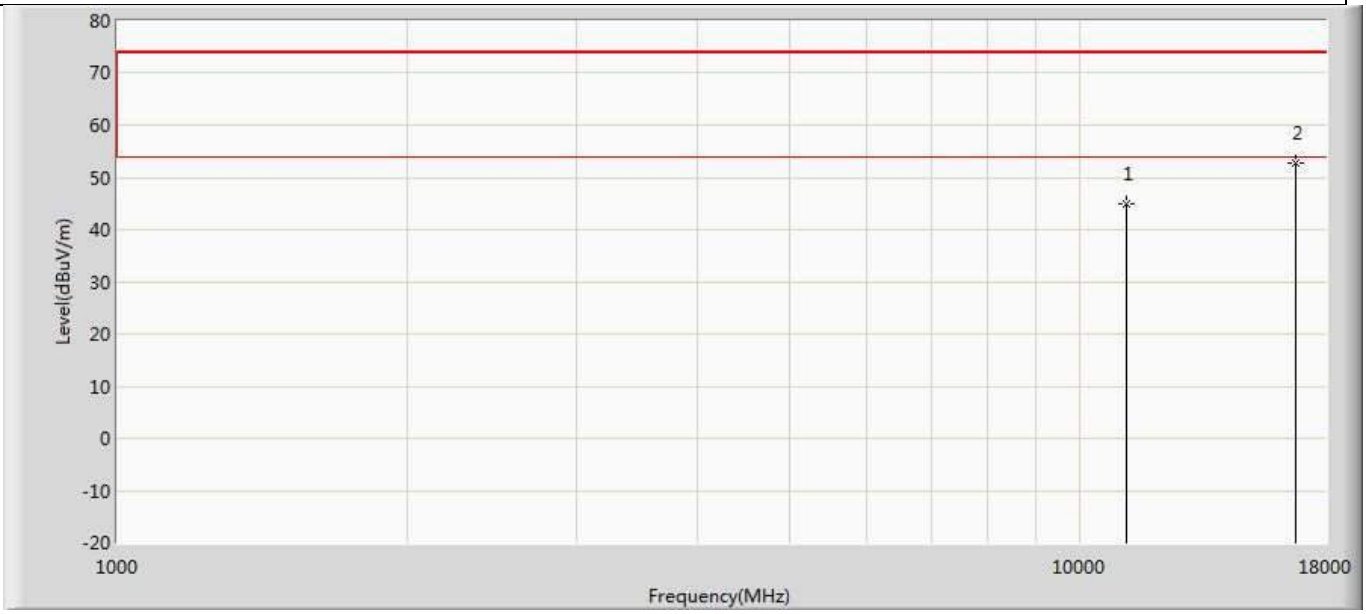
Profile: 2090075R	Page No.: 93
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 4:Transmit at 5500MHz by 802.11ac(20MHz)	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11000.000	44.908	33.513	-29.092	74.000	11.394	PK
2	*	16500.000	53.219	34.259	-20.781	74.000	18.960	PK

Profile: 2090075R	Page No.: 94
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 4:Transmit at 5500MHz by 802.11ac(20MHz)	

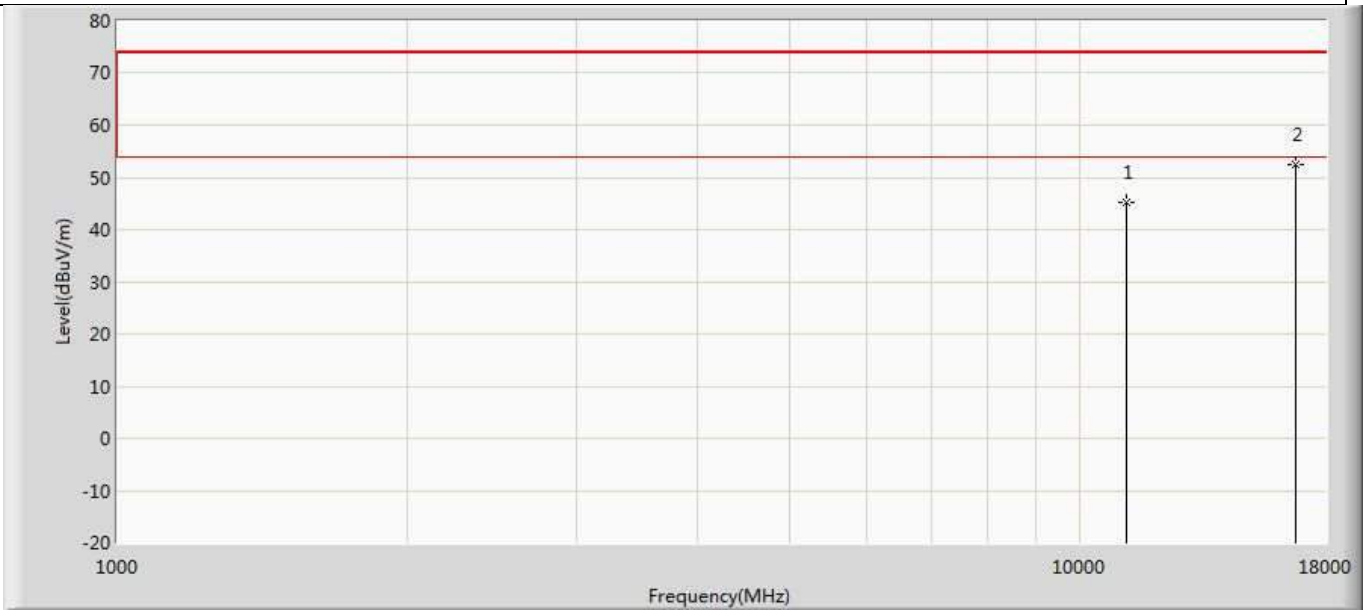
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11000.000	45.330	33.935	-28.670	74.000	11.394	PK
2	*	16500.000	52.605	33.645	-21.395	74.000	18.960	PK

Profile: 2090075R	Page No.: 29
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 17:52
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 4:Transmit at 5580MHz by 802.11ac(20MHz)	



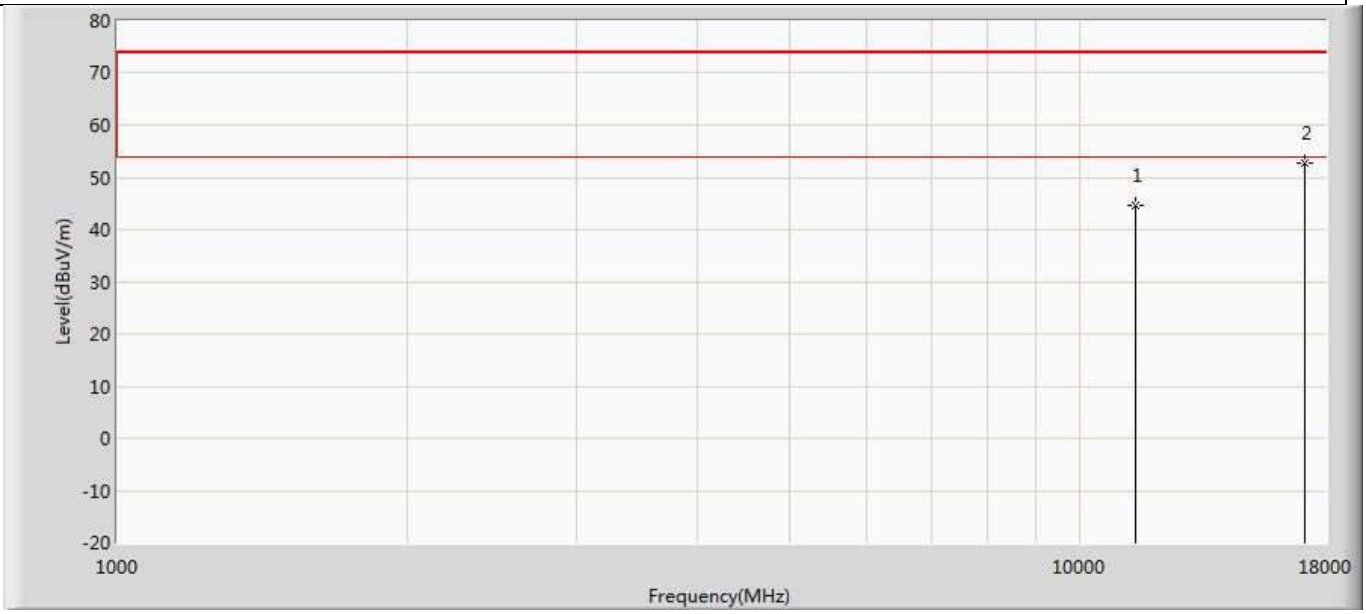
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11160.000	44.827	32.828	-29.173	74.000	11.999	PK
2	*	16740.000	52.837	34.232	-21.163	74.000	18.605	PK

Profile: 2090075R	Page No.: 30
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 17:53
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 4:Transmit at 5580MHz by 802.11ac(20MHz)	



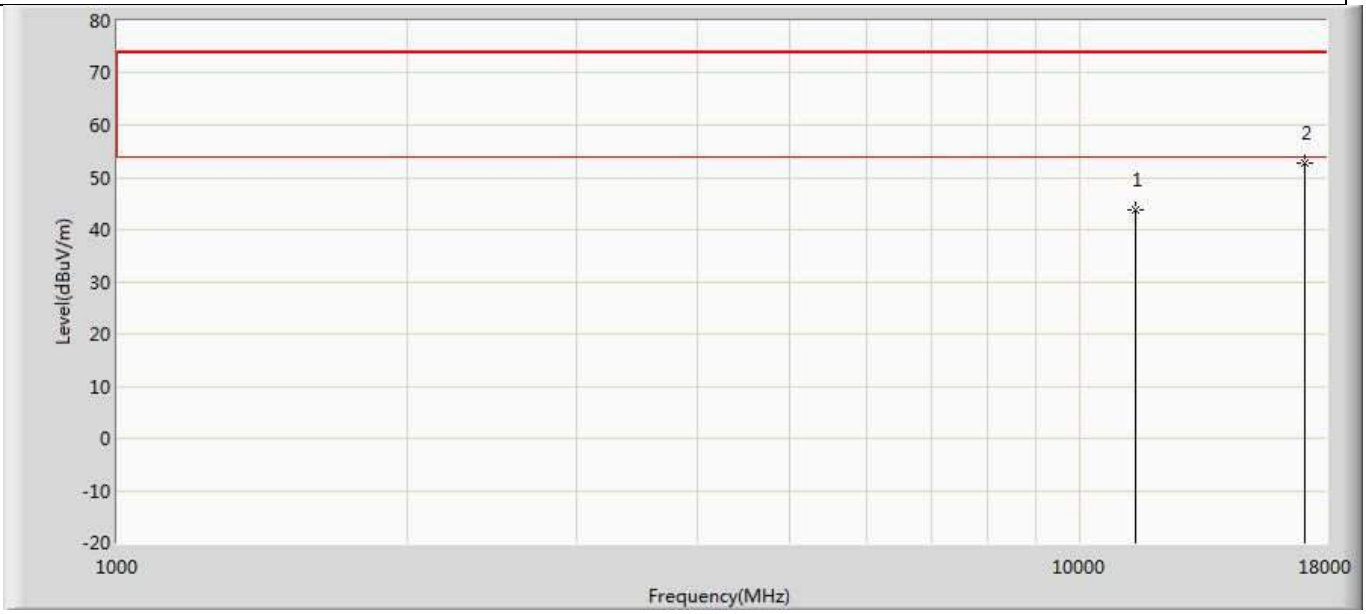
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11160.000	45.273	33.274	-28.727	74.000	11.999	PK
2	*	16740.000	52.387	33.782	-21.613	74.000	18.605	PK

Profile: 2090075R	Page No.: 35
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 17:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 4:Transmit at 5700MHz by 802.11ac(20MHz)	



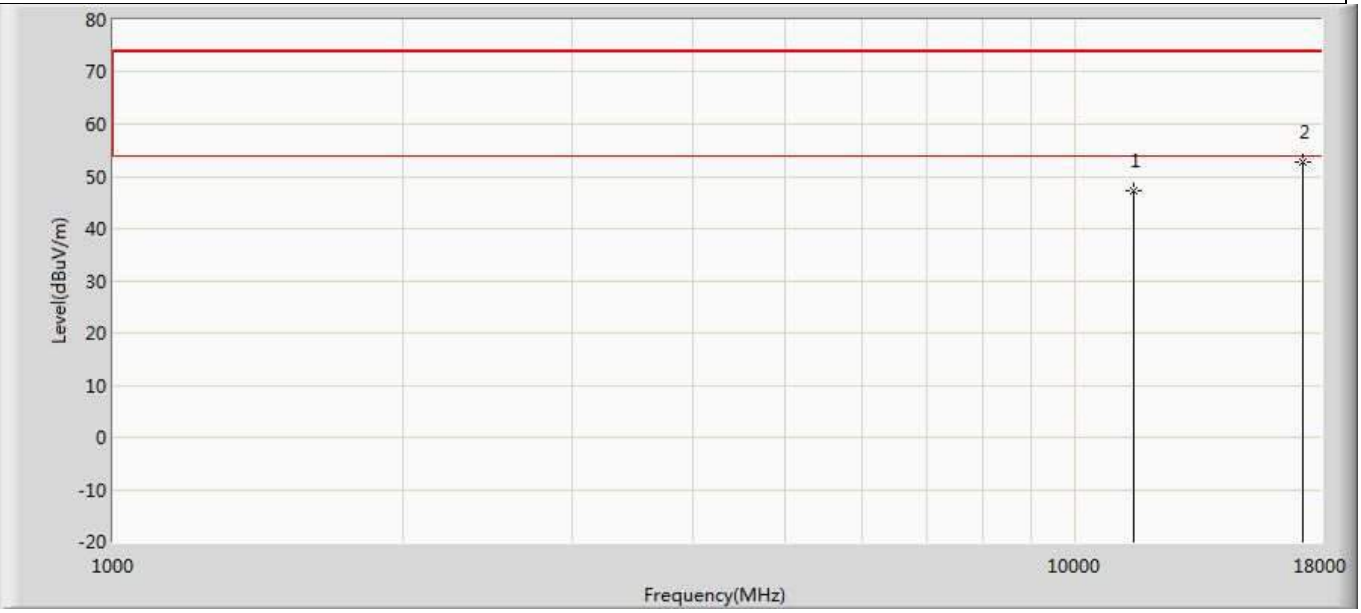
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11400.000	44.736	32.881	-29.264	74.000	11.855	PK
2	*	17100.000	52.837	32.787	-21.163	74.000	20.050	PK

Profile: 2090075R	Page No.: 36
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 17:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 4:Transmit at 5700MHz by 802.11ac(20MHz)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11400.000	43.892	32.037	-30.108	74.000	11.855	PK
2	*	17100.000	52.736	32.686	-21.264	74.000	20.050	PK

Profile: 2090075R	Page No.: 95
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 4:Transmit at 5745MHz by 802.11ac(20MHz)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11490.000	47.233	34.812	-26.767	74.000	12.421	PK
2	*	17235.000	52.758	31.929	-21.242	74.000	20.829	PK

Profile: 2090075R	Page No.: 96
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 4:Transmit at 5745MHz by 802.11ac(20MHz)	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11490.000	45.732	33.311	-28.268	74.000	12.421	PK
2	*	17235.000	53.296	32.467	-20.704	74.000	20.829	PK

Profile: 2090075R	Page No.: 97
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 4:Transmit at 5785MHz by 802.11ac(20MHz)	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11570.000	45.342	32.972	-28.658	74.000	12.370	PK
2	*	17355.000	52.218	31.662	-21.782	74.000	20.555	PK

Profile: 2090075R	Page No.: 98
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 4:Transmit at 5785MHz by 802.11ac(20MHz)	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11570.000	45.448	33.078	-28.552	74.000	12.370	PK
2	*	17355.000	52.597	32.041	-21.403	74.000	20.555	PK

Profile: 2090075R	Page No.: 99
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 4:Transmit at 5825MHz by 802.11ac(20MHz)	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11650.000	46.301	33.751	-27.699	74.000	12.549	PK
2	*	17475.000	53.334	32.641	-20.666	74.000	20.692	PK

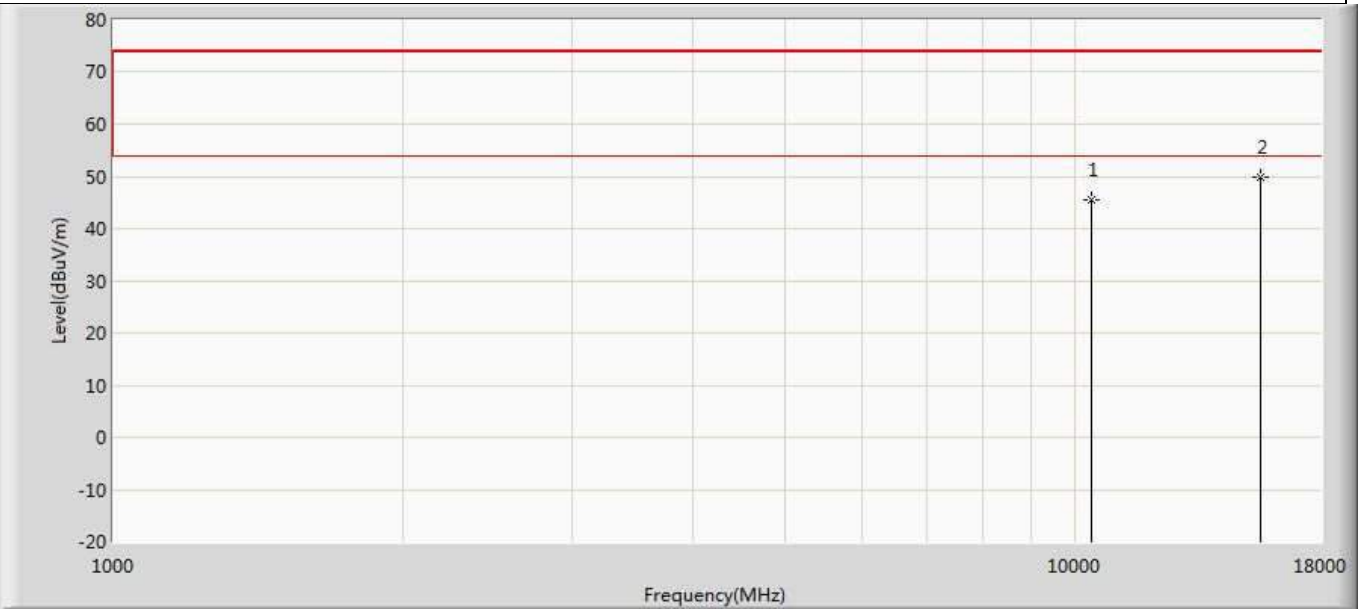
Profile: 2090075R	Page No.: 100
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 4:Transmit at 5825MHz by 802.11ac(20MHz)	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11650.000	45.216	32.666	-28.784	74.000	12.549	PK
2	*	17475.000	52.548	31.855	-21.452	74.000	20.692	PK

Profile: 2090075R	Page No.: 111
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 5:Transmit at 5190MHz by 802.11ac(40MHz)	

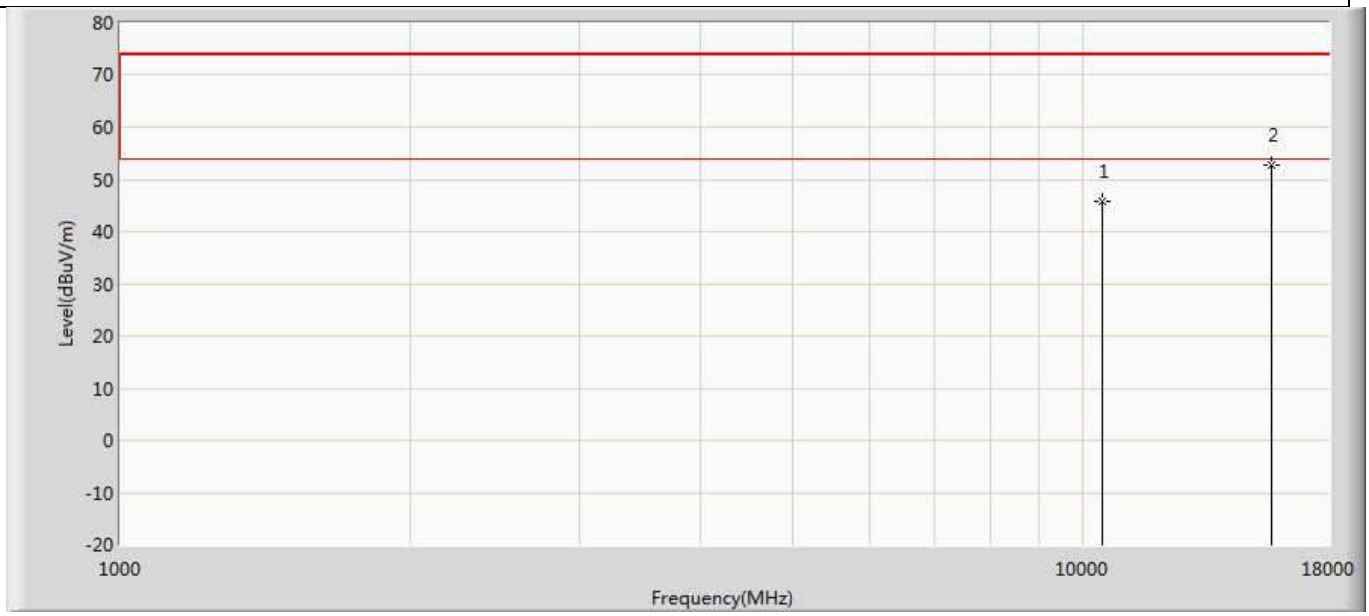
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10380.000	44.743	34.614	-29.257	74.000	10.129	PK
2	*	15570.000	50.307	33.731	-23.693	74.000	16.576	PK

Profile: 2090075R	Page No.: 112
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 5:Transmit at 5190MHz by 802.11ac(40MHz)	



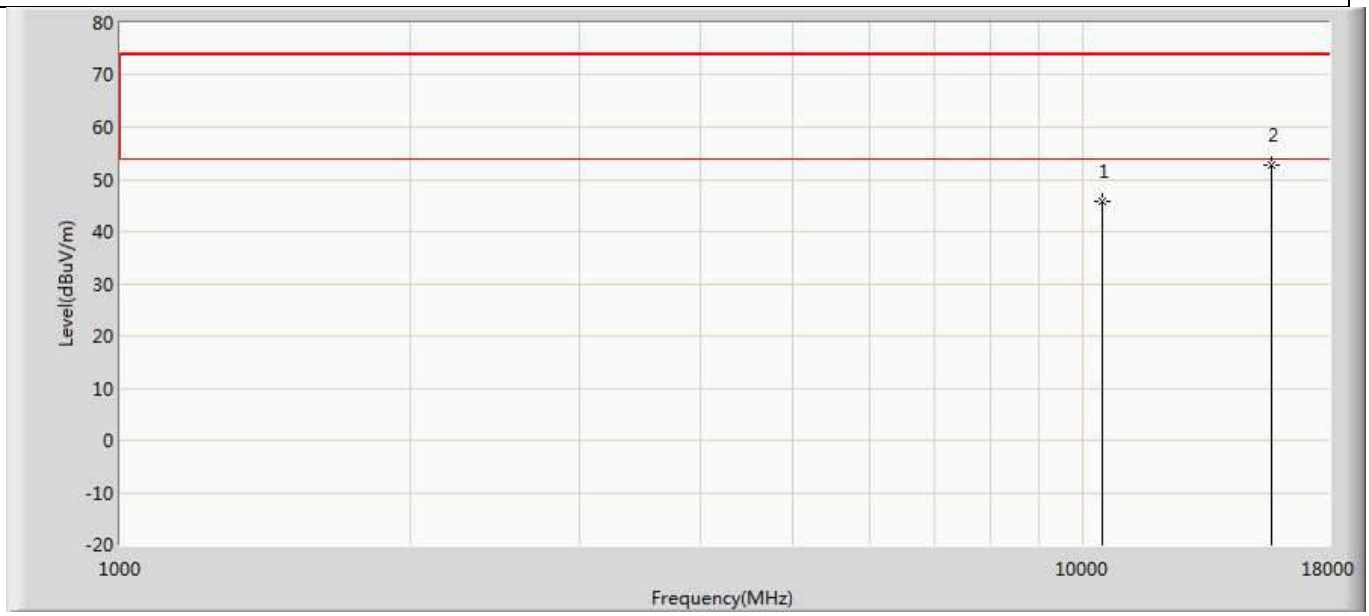
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10380.000	45.370	35.241	-28.630	74.000	10.129	PK
2	*	15570.000	49.921	33.345	-24.079	74.000	16.576	PK

Profile: 2090075R	Page No.: 39
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 18:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 5:Transmit at 5230MHz by 802.11ac(40MHz)	



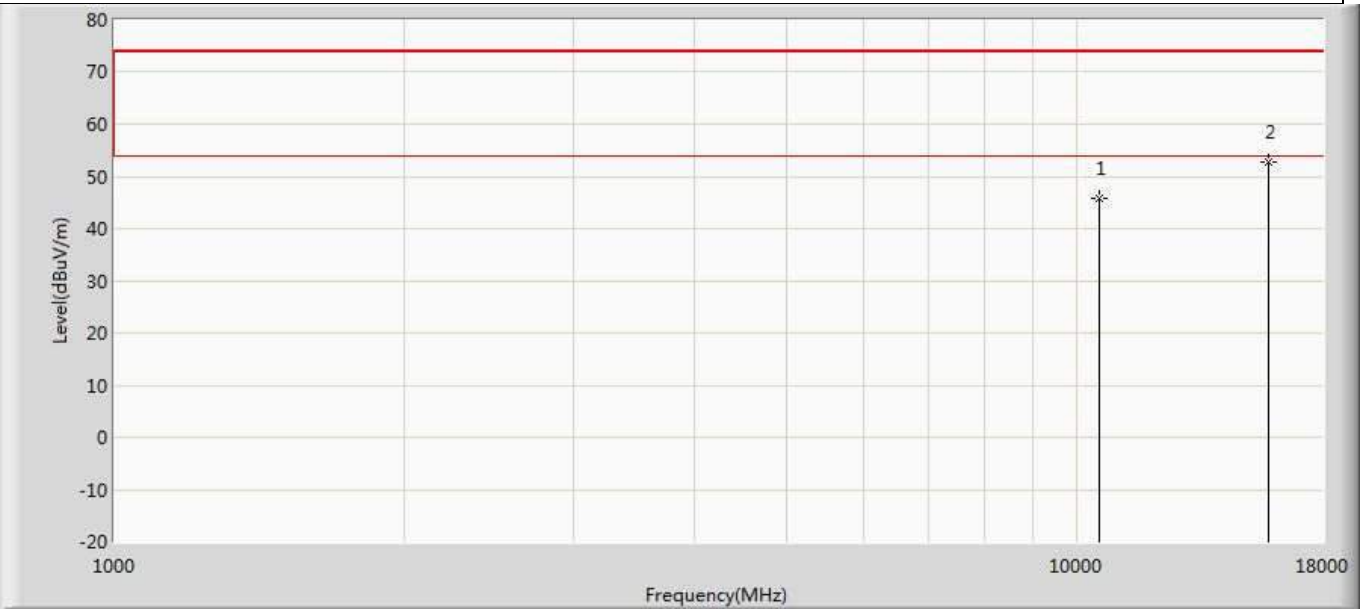
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10460.000	45.827	35.471	-28.173	74.000	10.356	PK
2	*	15690.000	52.736	35.849	-21.264	74.000	16.887	PK

Profile: 2090075R	Page No.: 40
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 18:02
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 5:Transmit at 5230MHz by 802.11ac(40MHz)	



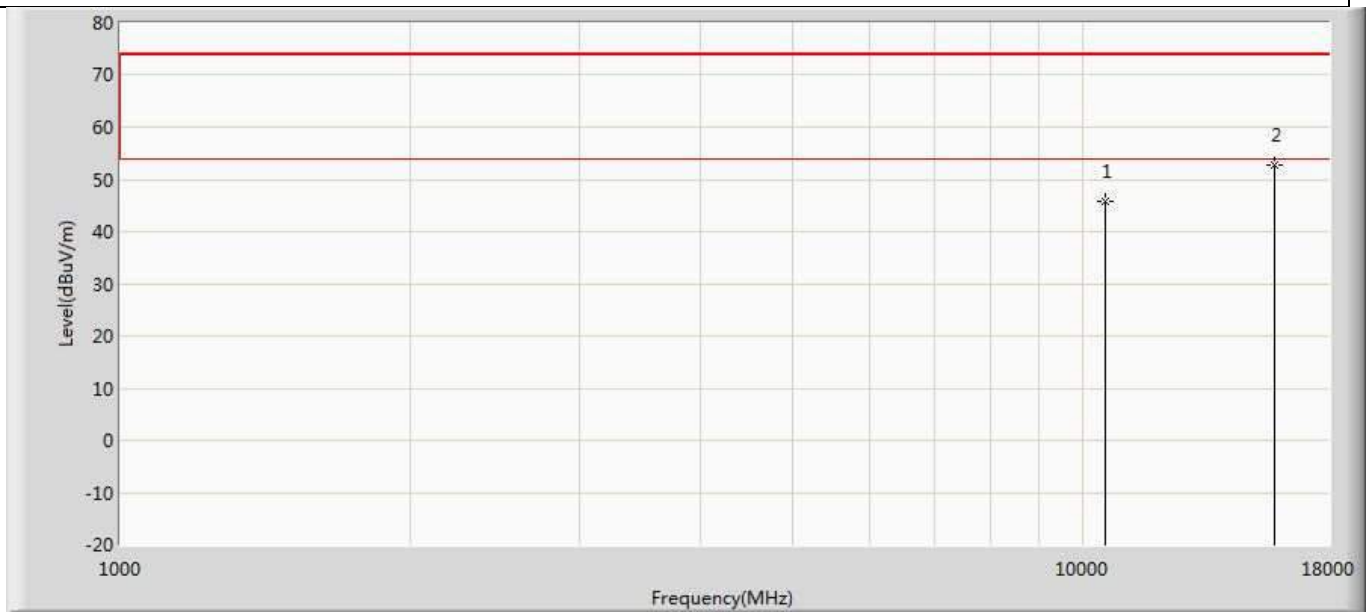
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10460.000	45.723	35.367	-28.277	74.000	10.356	PK
2	*	15690.000	52.736	35.849	-21.264	74.000	16.887	PK

Profile: 2090075R	Page No.: 43
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 18:05
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 5:Transmit at 5270MHz by 802.11ac(40MHz)	



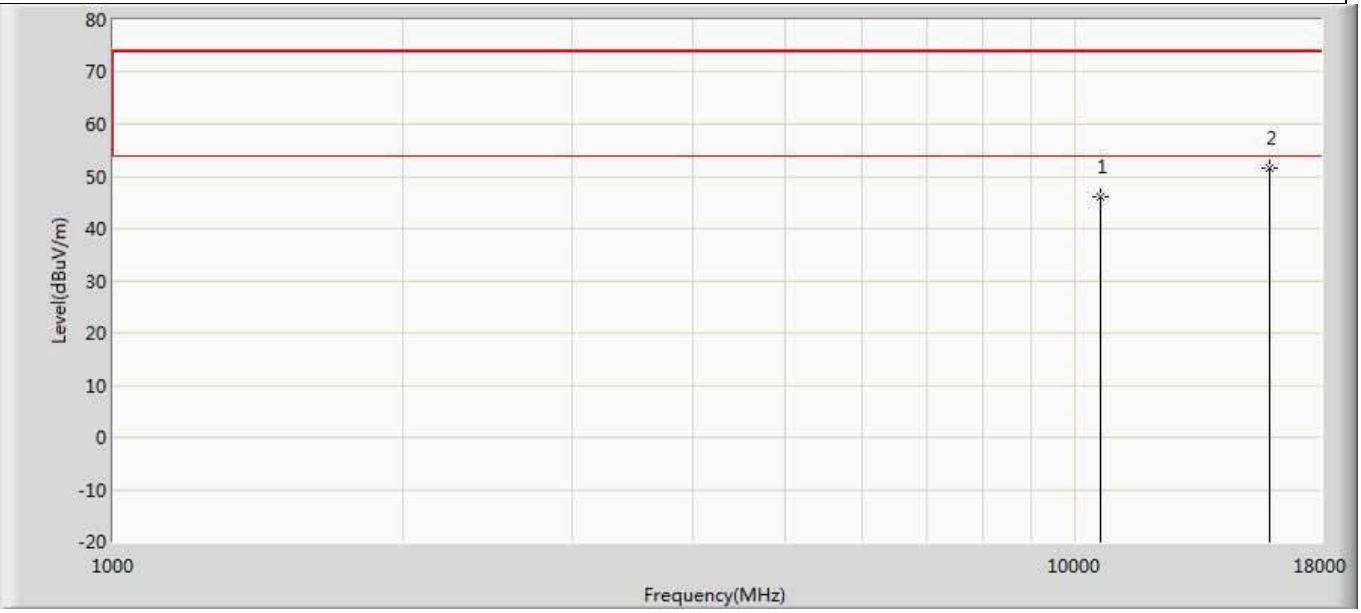
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10540.000	45.827	34.678	-28.173	74.000	11.149	PK
2	*	15810.000	52.826	35.293	-21.174	74.000	17.533	PK

Profile: 2090075R	Page No.: 44
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 18:06
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 5:Transmit at 5270MHz by 802.11ac(40MHz)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10540.000	45.928	34.779	-28.072	74.000	11.149	PK
2	*	15810.000	52.827	35.294	-21.173	74.000	17.533	PK

Profile: 2090075R	Page No.: 113
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 5:Transmit at 5310MHz by 802.11ac(40MHz)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10620.000	45.959	34.527	-28.041	74.000	11.433	PK
2	*	15930.000	51.622	33.524	-22.378	74.000	18.099	PK

Profile: 2090075R	Page No.: 114
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 5:Transmit at 5310MHz by 802.11ac(40MHz)	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10620.000	44.867	33.435	-29.133	74.000	11.433	PK
2	*	15930.000	51.386	33.288	-22.614	74.000	18.099	PK

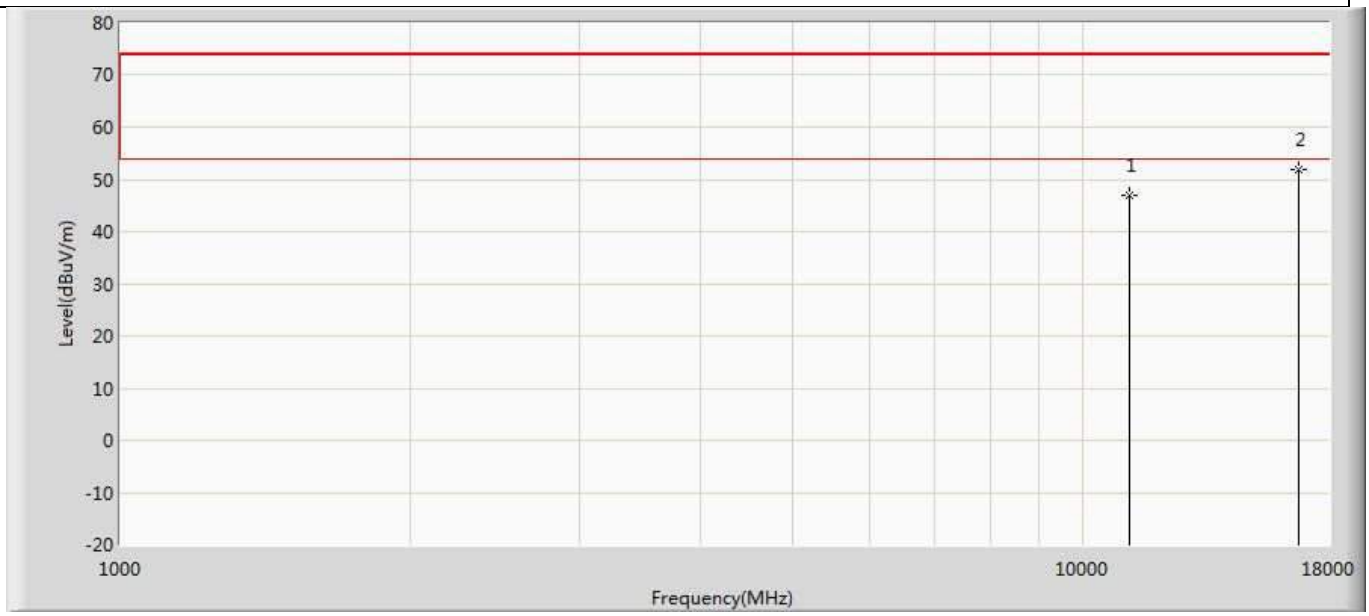
Profile: 2090075R	Page No.: 115
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 5:Transmit at 5510MHz by 802.11ac(40MHz)	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11020.000	44.456	33.326	-29.544	74.000	11.130	PK
2	*	16530.000	52.110	33.582	-21.890	74.000	18.529	PK

Profile: 2090075R	Page No.: 116
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 5:Transmit at 5510MHz by 802.11ac(40MHz)	

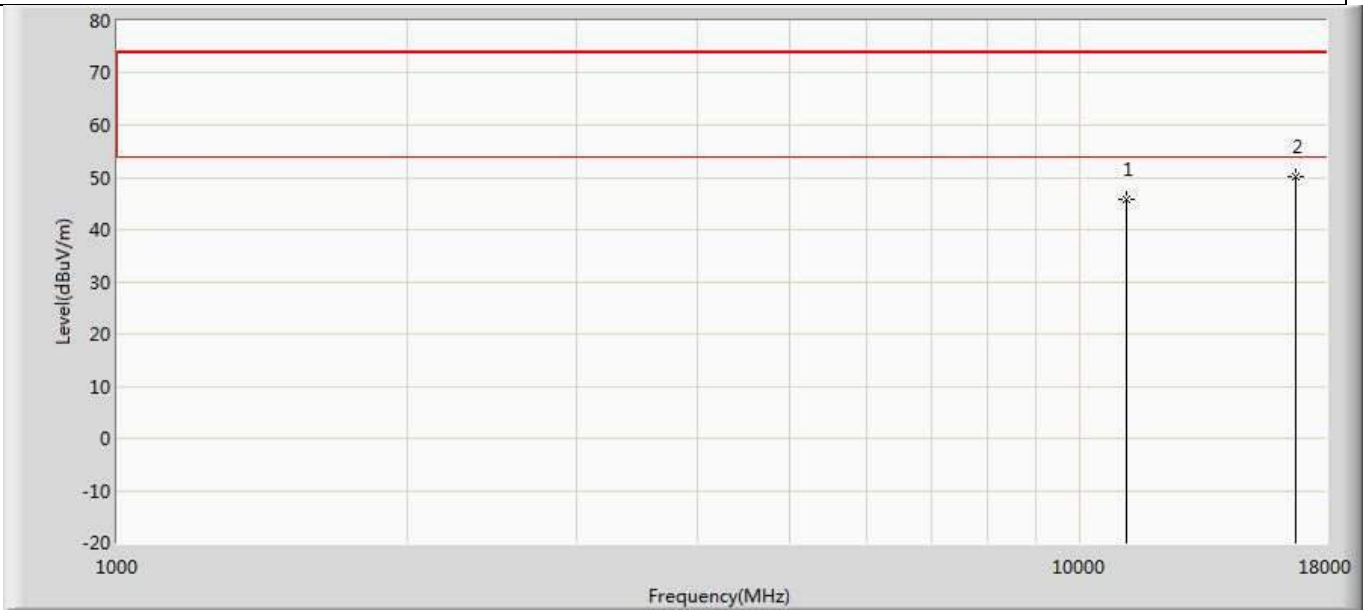
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11020.000	45.236	34.106	-28.764	74.000	11.130	PK
2	*	16530.000	52.551	34.023	-21.449	74.000	18.529	PK

Profile: 2090075R	Page No.: 47
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 18:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 5:Transmit at 5590MHz by 802.11ac(40MHz)	



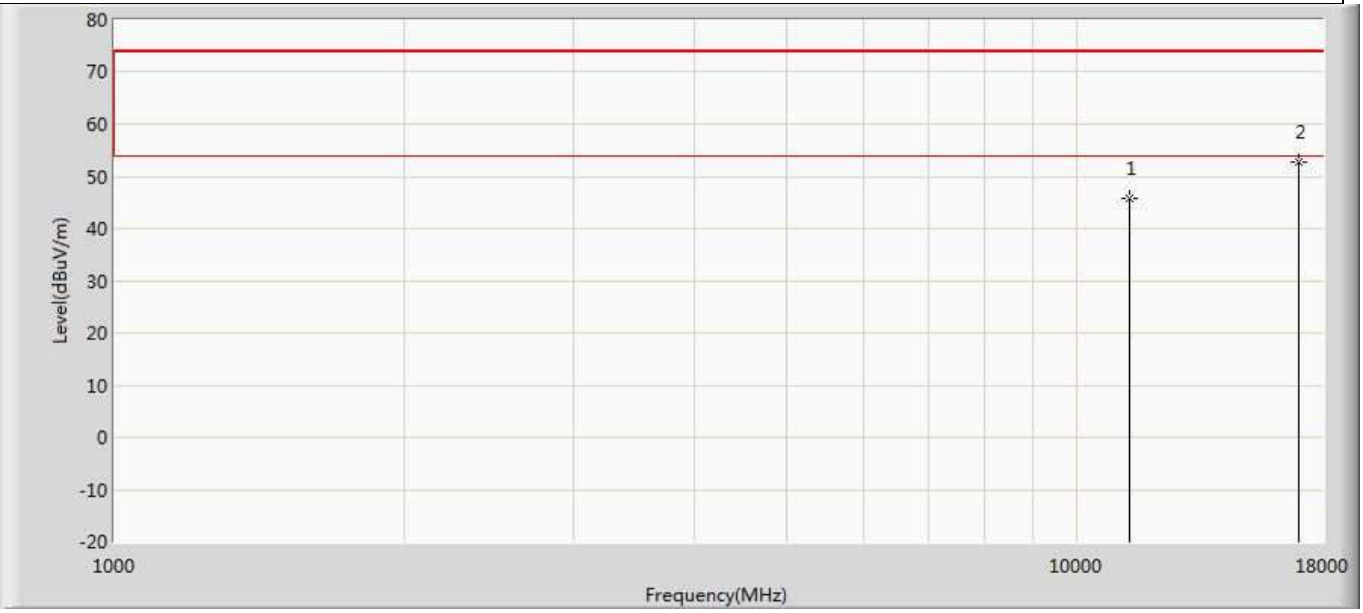
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11180.000	46.827	35.455	-27.173	74.000	11.372	PK
2	*	16770.000	51.837	33.162	-22.163	74.000	18.675	PK

Profile: 2090075R	Page No.: 48
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 18:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 5:Transmit at 5590MHz by 802.11ac(40MHz)	



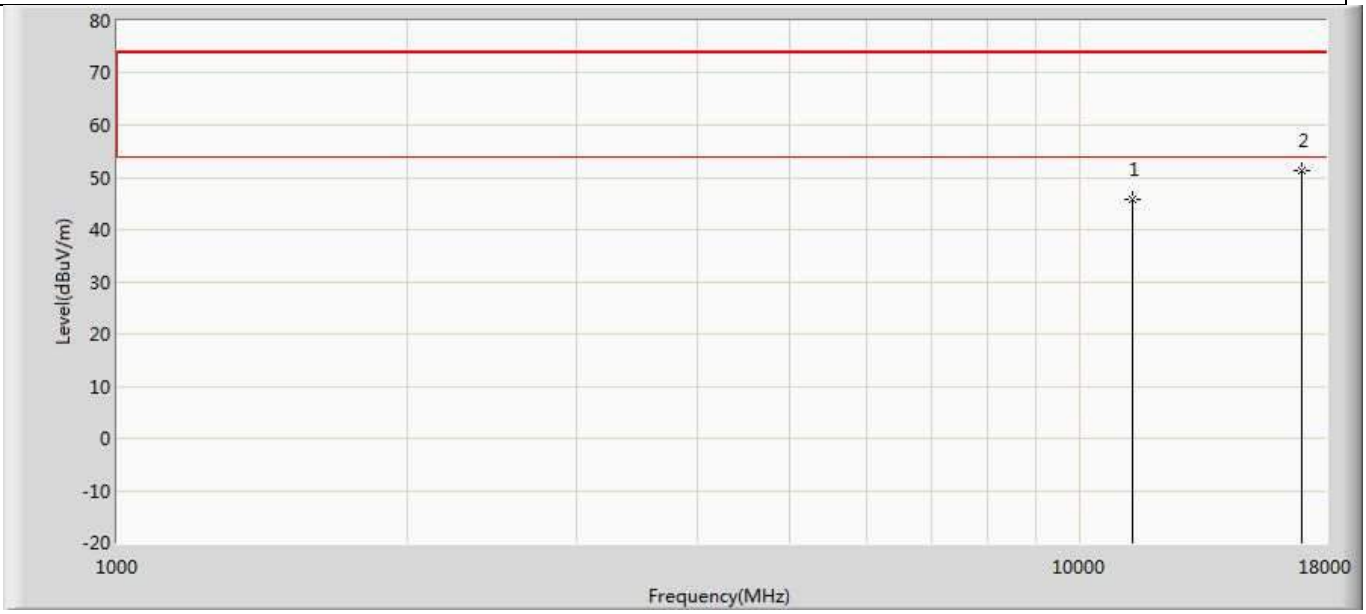
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11180.000	45.837	34.465	-28.163	74.000	11.372	PK
2	*	16770.000	50.263	31.588	-23.737	74.000	18.675	PK

Profile: 2090075R	Page No.: 51
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 18:14
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 5:Transmit at 5670MHz by 802.11ac(40MHz)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11340.000	45.827	33.820	-28.173	74.000	12.007	PK
2	*	17010.000	52.827	33.177	-21.173	74.000	19.650	PK

Profile: 2090075R	Page No.: 52
Engineer:Yingfeiwang	
Site:AC5	Time: 2020/08/19 - 18:14
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 5:Transmit at 5670MHz by 802.11ac(40MHz)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11340.000	45.827	33.820	-28.173	74.000	12.007	PK
2	*	17010.000	51.283	31.633	-22.717	74.000	19.650	PK

Profile: 2090075R	Page No.: 117
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 5:Transmit at 5755MHz by 802.11ac(40MHz)	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11510.000	46.896	34.673	-27.104	74.000	12.224	PK
2	*	17265.000	53.263	32.585	-20.737	74.000	20.678	PK

Profile: 2090075R	Page No.: 118
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 5:Transmit at 5755MHz by 802.11ac(40MHz)	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11510.000	46.904	34.681	-27.096	74.000	12.224	PK
2	*	17265.000	53.971	33.293	-20.029	74.000	20.678	PK

Profile: 2090075R	Page No.: 119
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 5:Transmit at 5795MHz by 802.11ac(40MHz)	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11590.000	45.797	33.256	-28.203	74.000	12.541	PK
2	*	17385.000	52.306	31.470	-21.694	74.000	20.835	PK

Profile: 2090075R	Page No.: 120
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 5:Transmit at 5795MHz by 802.11ac(40MHz)	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11590.000	44.992	32.451	-29.008	74.000	12.541	PK
2	*	17385.000	52.002	31.166	-21.998	74.000	20.835	PK

Profile: 2090075R	Page No.: 121
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 6:Transmit at 5210MHz by 802.11ac(80MHz)	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10420.000	44.424	34.002	-29.576	74.000	10.423	PK
2	*	15630.000	49.961	33.336	-24.039	74.000	16.625	PK

Profile: 2090075R	Page No.: 122
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 6:Transmit at 5210MHz by 802.11ac(80MHz)	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10420.000	44.471	34.049	-29.529	74.000	10.423	PK
2	*	15630.000	50.446	33.821	-23.554	74.000	16.625	PK

Profile: 2090075R	Page No.: 123
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 6:Transmit at 5290MHz by 802.11ac(80MHz)	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10580.000	45.045	34.490	-28.955	74.000	10.555	PK
2	*	15870.000	51.826	34.204	-22.174	74.000	17.622	PK

Profile: 2090075R	Page No.: 124
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:50
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 6:Transmit at 5290MHz by 802.11ac(80MHz)	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10580.000	44.318	33.763	-29.682	74.000	10.555	PK
2	*	15870.000	51.067	33.445	-22.933	74.000	17.622	PK

Profile: 2090075R	Page No.: 125
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:50
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 6:Transmit at 5530MHz by 802.11ac(80MHz)	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11060.000	45.161	34.028	-28.839	74.000	11.134	PK
2	*	16590.000	52.555	34.016	-21.445	74.000	18.539	PK

Profile: 2090075R	Page No.: 126
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:50
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 6:Transmit at 5530MHz by 802.11ac(80MHz)	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11060.000	44.378	33.245	-29.622	74.000	11.134	PK
2	*	16590.000	52.298	33.759	-21.702	74.000	18.539	PK

Profile: 2090075R	Page No.: 127
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:50
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 6:Transmit at 5775MHz by 802.11ac(80MHz)	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11550.000	45.988	33.423	-28.012	74.000	12.564	PK
2	*	17325.000	53.808	32.759	-20.192	74.000	21.049	PK

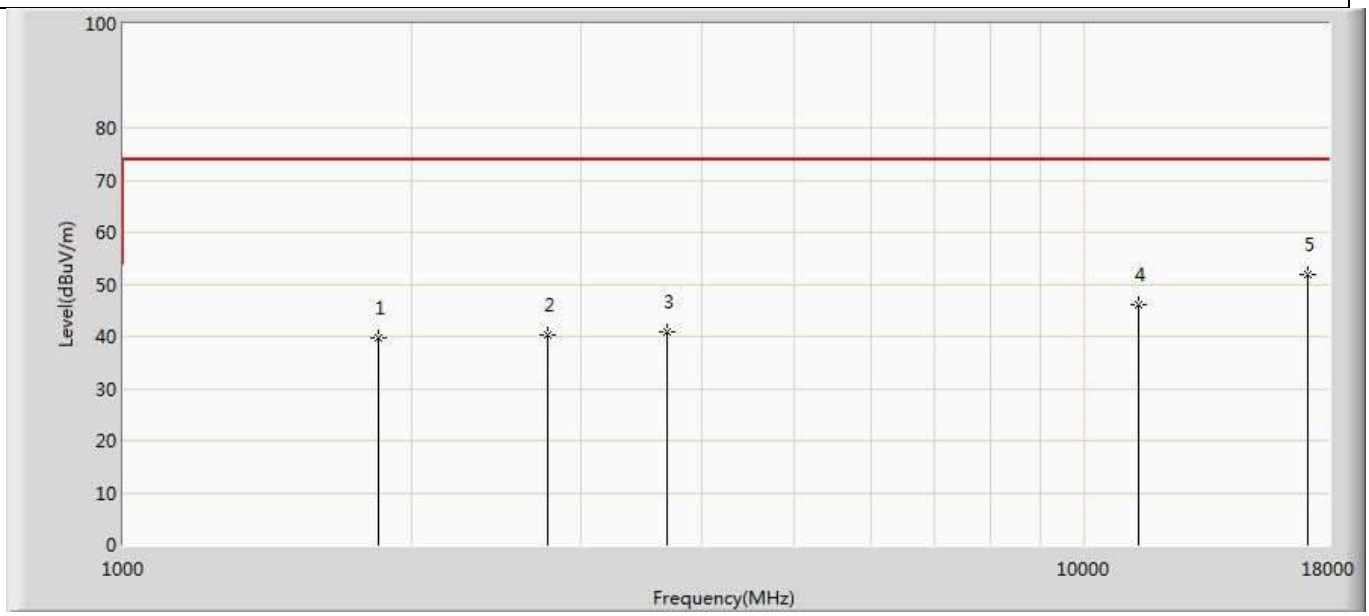
Profile: 2090075R	Page No.: 128
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 13:50
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 6:Transmit at 5775MHz by 802.11ac(80MHz)	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11550.000	45.848	33.283	-28.152	74.000	12.564	PK
2	*	17325.000	53.205	32.156	-20.795	74.000	21.049	PK

Remark	1. " * ", means this data is the worst emission level. 2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp). 3. The test frequency range, 9kHz~30MHz and Above 18GHz worst case are at least 6dB below the limits, therefore no data appear in the report. 4. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

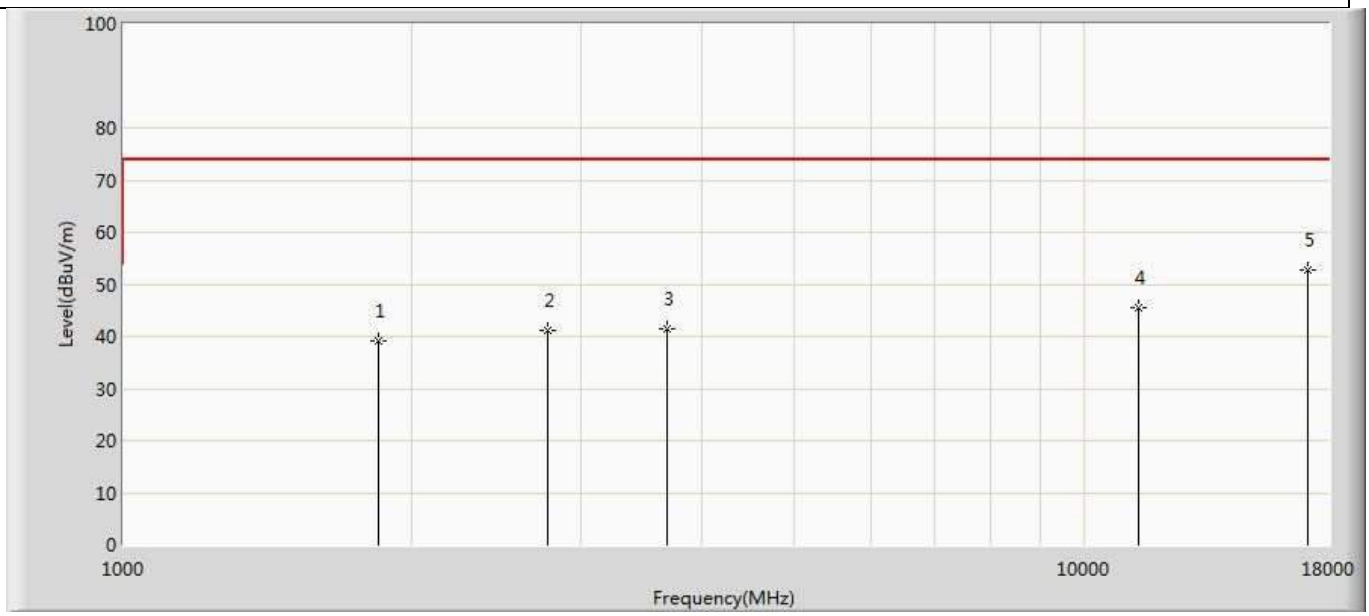
The worst case of Simultaneous transmission:

Profile: 2090075R	Page No.: 3
Engineer: Yingfei.wang	
Site: AC5AC5	Time: 2020/09/22 - 16:31
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 7：Transmit at 5700 MHz by 802.11a and 920.75 MHz by RFID	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		1841.500	39.616	39.384	-34.384	74.000	0.233	PK
2		2762.250	40.325	38.486	-33.675	74.000	1.838	PK
3		3683.000	41.004	37.094	-32.996	74.000	3.910	PK
4		11400.000	46.175	32.214	-27.825	74.000	13.961	PK
5	*	17100.000	52.026	32.194	-21.974	74.000	19.832	PK

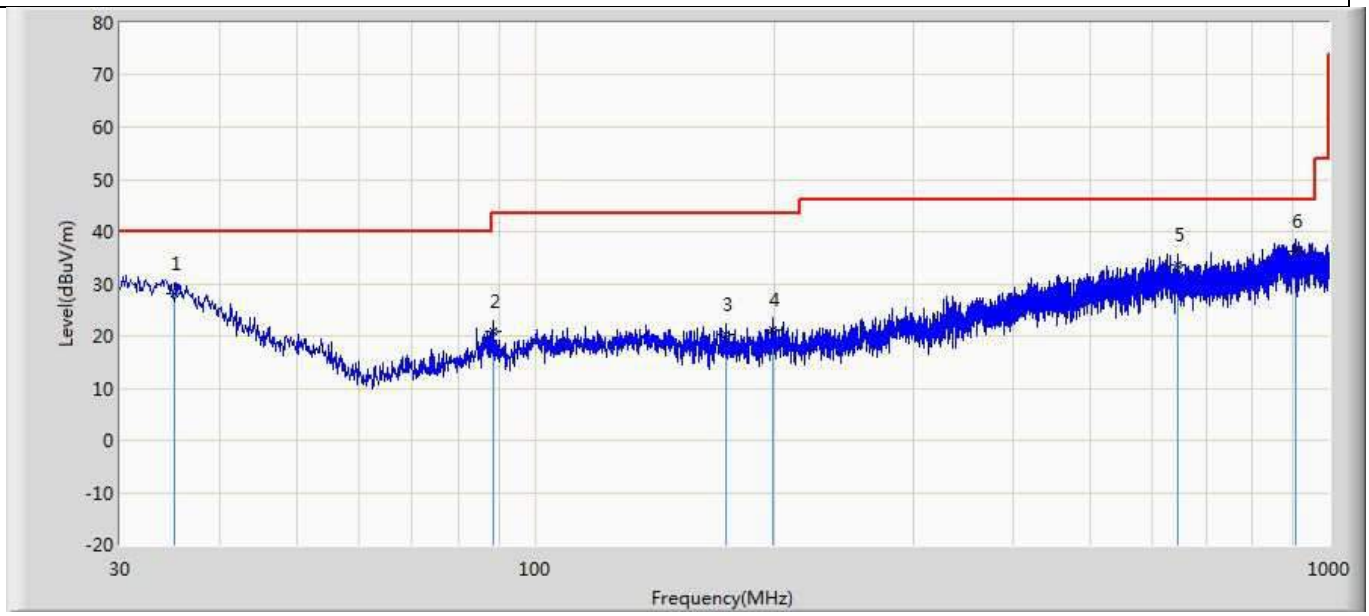
Profile: 2090075R	Page No.: 4
Engineer: Yingfei.wang	
Site: AC5AC5	Time: 2020/09/22 - 16:33
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 7：Transmit at 5700 MHz by 802.11a and 920.75 MHz by RFID	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		1841.500	39.224	38.992	-34.776	74.000	0.233	PK
2		2762.250	41.113	39.274	-32.887	74.000	1.838	PK
3		3683.000	41.412	37.502	-32.588	74.000	3.910	PK
4		11400.000	45.615	31.654	-28.385	74.000	13.961	PK
5	*	17100.000	52.730	32.898	-21.270	74.000	19.832	PK

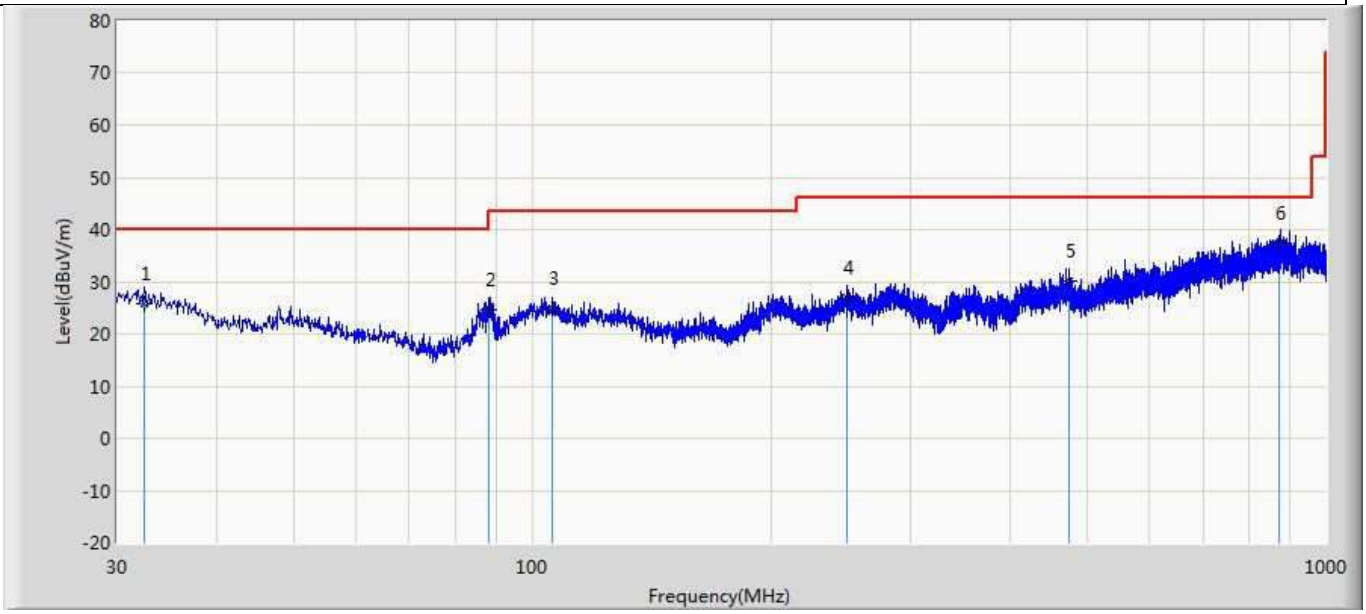
The worst case of Radiated Emission below 1GHz:

Profile: 2090075R	Page No.: 1
Engineer: Yingfei.Wang	
Site: AC2	Time: 2020/09/22 - 20:16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: AC2_3M(30-1000M)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		35.092	28.076	1.258	-11.924	40.000	26.817	QP
2		88.564	20.749	6.987	-22.751	43.500	13.762	QP
3		174.045	20.218	3.123	-23.282	43.500	17.095	QP
4		199.023	21.161	3.458	-22.339	43.500	17.703	QP
5		644.616	33.668	5.485	-12.332	46.000	28.183	QP
6	*	906.759	36.172	3.458	-9.828	46.000	32.714	QP

Profile: 2090075R	Page No.: 2
Engineer: Yingfei.Wang	
Site: AC2	Time: 2020/09/22 - 20:28
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: AC2_3M(30-1000M)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 1	



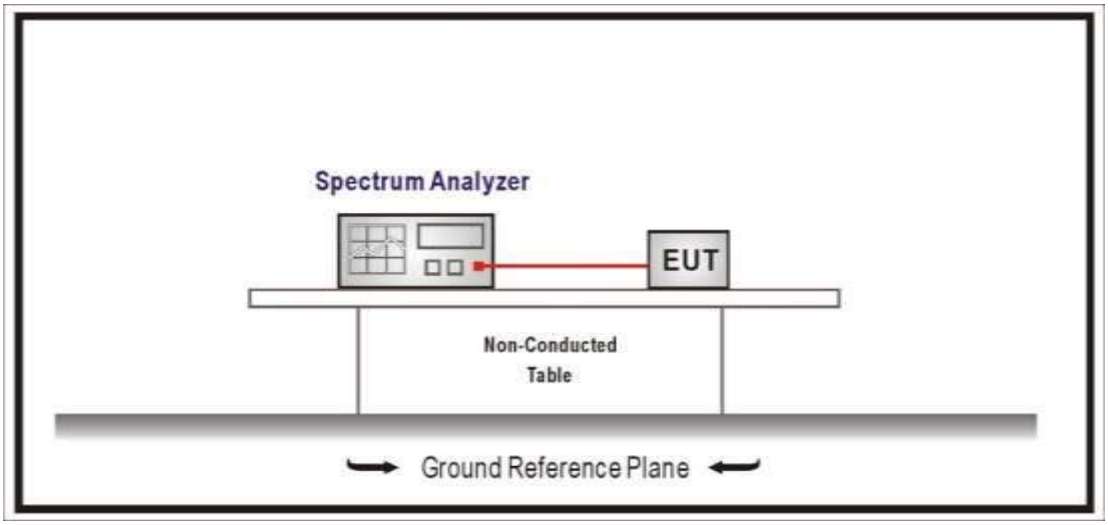
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		32.425	25.903	2.698	-14.097	40.000	23.205	QP
2		88.200	24.643	7.984	-18.857	43.500	16.659	QP
3		106.024	25.019	3.012	-18.481	43.500	22.007	QP
4		248.977	26.901	2.589	-19.099	46.000	24.312	QP
5		475.473	30.098	3.984	-15.902	46.000	26.114	QP
6	*	873.051	37.397	4.516	-8.603	46.000	32.881	QP

Remark	1. " * ", means this data is the worst emission level. 2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp). 3. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.

4.3 Emission Bandwidth and Occupid Bandwidth	VERDICT: PASS

4.3.1 Limit	
Standard	FCC Part 15 Subpart C Paragraph 15.407
N/A	

4.3.2 Test Setup



4.3.3 Test Procedure

	Reference Rule	Chapter	Description
☐	ANSI C63.10	12.4	Emission bandwidth and occupied bandwidth
	☐ ANSI C63.10	12.4.1	Emission bandwidth (26dB)
	☐ ANSI C63.10	12.4.2	Occupied bandwidth (99%)
☒	FCC KDB 789033 D02v02r01	C	Bandwidth Measurement
	☒ FCC KDB 789033 D02v02r01	C.1	Emission Bandwidth (26dB)
	☒ FCC KDB 789033 D02v02r01	C.2	Minimum Emission Bandwidth for the band 5.725-5.85 GHz (6dB)
☒	FCC KDB 789033 D02v02r01	D	99 Percent Occupied Bandwidth

4.3.4 Test Data

Mode	CH.	Test Freq. (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Result
1	36	5180	25.97	16.606	Pass
	44	5220	27.75	16.565	Pass
	48	5240	24.51	16.602	Pass
	52	5260	31.74	16.666	Pass
	60	5300	23.30	16.470	Pass
	64	5320	25.52	16.526	Pass
	100	5500	18.68	16.345	Pass
	116	5580	19.22	16.384	Pass
	140	5700	19.79	16.390	Pass
2	36	5180	27.06	17.693	Pass
	44	5220	25.51	17.712	Pass
	48	5240	27.51	17.788	Pass
	52	5260	26.84	17.695	Pass
	60	5300	24.44	17.664	Pass
	64	5320	25.24	17.574	Pass
	100	5500	20.24	17.433	Pass
	116	5580	20.50	17.468	Pass
	140	5700	20.05	17.480	Pass
3	38	5190	55.12	36.432	Pass
	46	5230	68.74	36.863	Pass
	54	5270	60.84	36.744	Pass
	62	5310	65.91	36.480	Pass
	102	5510	39.76	35.892	Pass
	110	5550	39.59	35.899	Pass
	134	5670	42.11	36.040	Pass

Mode	CH.	Test Freq. (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Result
4	36	5180	27.48	17.705	Pass
	44	5220	24.64	17.621	Pass
	48	5240	29.49	17.757	Pass
	52	5260	26.25	17.682	Pass
	60	5300	23.05	17.654	Pass
	64	5320	24.02	17.461	Pass
	100	5500	20.19	17.446	Pass
	116	5580	19.74	17.416	Pass
	140	5700	20.62	17.446	Pass
5	38	5190	67.55	36.780	Pass
	46	5230	72.33	37.130	Pass
	54	5270	71.69	36.947	Pass
	62	5310	56.98	36.426	Pass
	102	5510	40.49	35.895	Pass
	110	5550	39.70	35.925	Pass
	134	5670	44.28	36.085	Pass
6	42	5210	128.10	76.789	Pass
	54	5290	127.80	76.438	Pass
	106	5530	82.70	75.142	Pass

Note : The worst case of Occupied Bandwidth as below in next page:

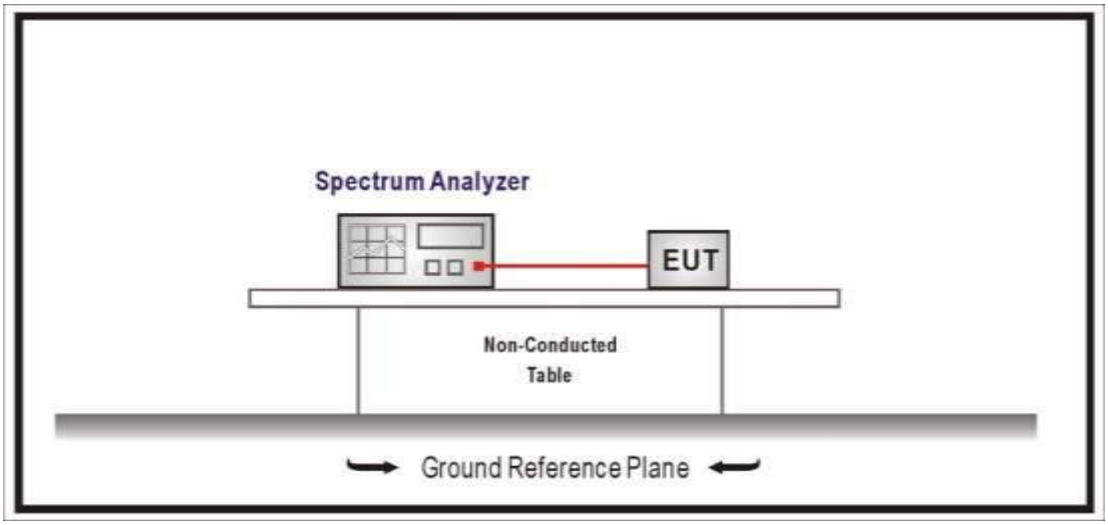
Mode 2 CH36 (5180MHz)

4.4 6dB Bandwidth and Occupid Bandwidth	VERDICT: PASS

4.4.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.407(e)
Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.	

4.4.2 Test Setup



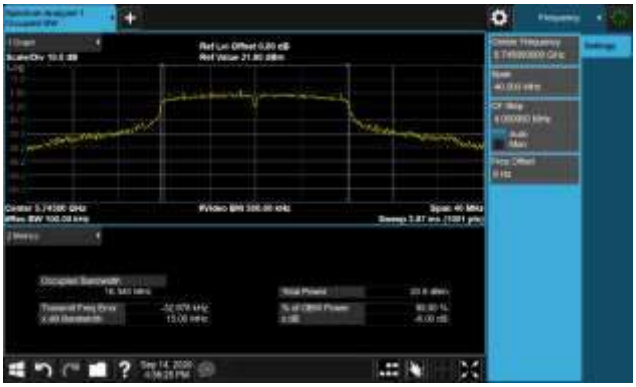
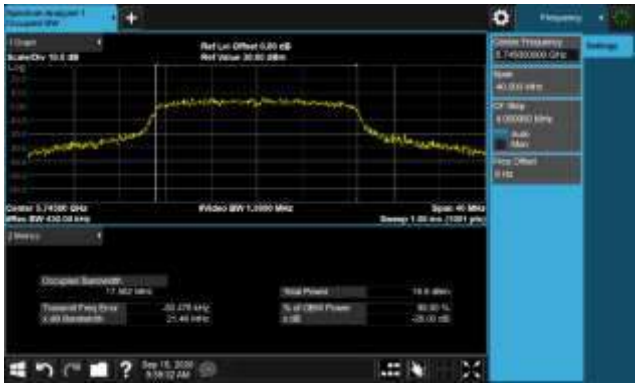
4.4.3 Test Procedure

	Reference Rule	Chapter	Description
☐	ANSI C63.10	12.4	Emission bandwidth and occupied bandwidth
	☐ ANSI C63.10	12.4.1	Emission bandwidth (26dB)
	☐ ANSI C63.10	12.4.2	Occupied bandwidth (99%)
☒	FCC KDB 789033 D02v02r01	C	Bandwidth Measurement
	☐ FCC KDB 789033 D02v02r01	C.1	Emission Bandwidth (26dB)
	☒ FCC KDB 789033 D02v02r01	C.2	Minimum Emission Bandwidth for the band 5.725-5.85 GHz (6dB)
☒	FCC KDB 789033 D02v02r01	D	99 Percent Occupied Bandwidth

4.4.4 Test Data

Mode	CH.	Test Freq. (MHz)	6dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit (kHz)	Result
1	149	5745	15.06	16.425	≥500	Pass
	157	5785	16.37	16.389	≥500	Pass
	165	5825	16.34	16.330	≥500	Pass
2	149	5745	17.44	17.582	≥500	Pass
	157	5785	17.30	17.547	≥500	Pass
	165	5825	17.19	17.512	≥500	Pass
3	151	5755	36.27	36.175	≥500	Pass
	159	5795	35.90	36.123	≥500	Pass
4	149	5745	17.14	17.470	≥500	Pass
	157	5785	17.42	17.535	≥500	Pass
	165	5825	17.02	17.471	≥500	Pass
5	151	5755	35.25	36.113	≥500	Pass
	159	5795	34.39	36.103	≥500	Pass
6	155	5775	66.35	75.687	≥500	Pass

Note : The worst case of Occupied Bandwidth as below in next page:

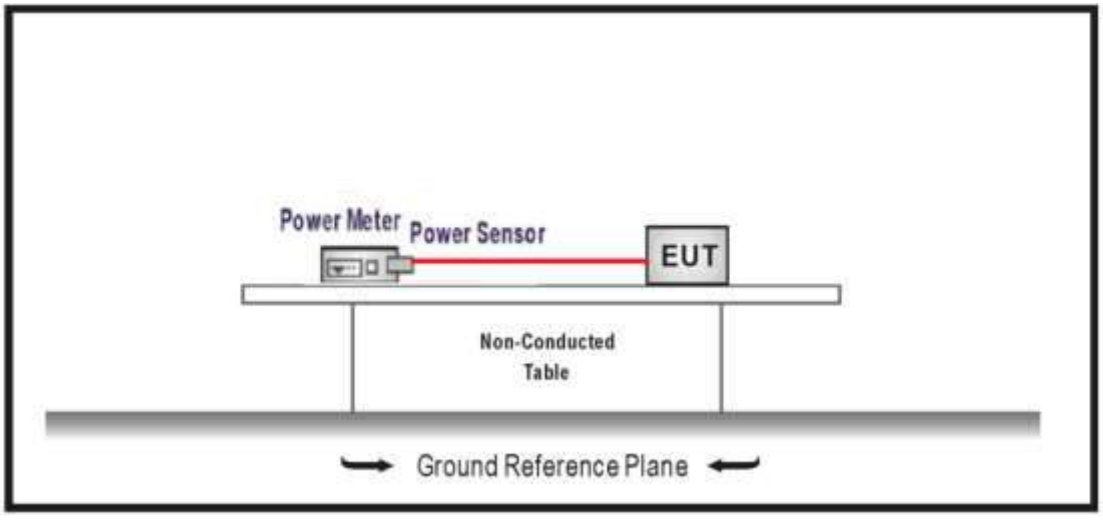
6dB Occupied Bandwidth	99% Occupied Bandwidth
Mode 1 CH149 (5745MHz)	**Mode 2 CH149 (5745MHz)**
	

4.5 Output Power	VERDICT: PASS

4.5.1 Limit

Standard		FCC Part 15 Subpart C Paragraph 15.407 (a)(3)
☒	For the band 5.15-5.25 GHz	
	☐	Outdoor access point: the maximum conducted output power shall not exceed 1 W. If G_{TX}＞6dBi, then Pout≤30 - (G_{TX} - 6) and ≤125mW at any angle above 30 degrees
	☐	Indoor access point: the maximum conducted output power shall not exceed 1 W. If G_{TX}＞6dBi, then Pout≤30 - (G_{TX} - 6)
	☐	Fixed point-to-point access points: the maximum conducted output power shall not exceed 1 W. If G_{TX} ＞23dBi, then Pout≤30 - (G_{TX} - 23)
	☒	Mobile and portable client devices: the maximum conducted output power shall not exceed 250mW. If G_{TX}＞6dBi, then Pout≤24 - (G_{TX} - 6)
☒	For the band 5.25-5.35 GHz:	
	☒	The maximum conducted output power shall not exceed 250mW or 11dBm+10 Log B, where B is the 26dB emission bandwidth in MHz. If G_{TX} ＞ 6dBi, then Pout ≤ (The lesser of 24 or 11dBm+10 Log B) - (GTX - 6)
☒	For the 5.47-5.725 GHz:	
	☒	The maximum conducted output power shall not exceed 250mW or 11dBm+10 Log B, where B is the 26dB emission bandwidth in MHz. If G_{TX}＞6dBi, then Pout ≤ (The lesser of 24 or 11dBm+10 Log B) - (G_{TX} - 6)
☒	For the band 5.725-5.85 GHz:	
	☒	Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If G_{TX} > 6 dBi, then P_{Out} = 30 – (G_{TX} – 6)
	☐	Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W
Note 1 : GTX directional gain of transmitting antennas. Note 2 : Pout is maximum peak conducted output power .		

4.5.2 Test Setup



4.5.3 Test Procedure

	References Rule	Chapter	Description
☒	ANSI C63.10	12.3	Maximum conducted output power
	☒ ANSI C63.10	11.9.1	Maximum peak conducted output power
	☐ ANSI C63.10	12.3.2.2	Method SA-1
	☐ ANSI C63.10	12.3.2.3	Method SA-1A (alternative)
	☒ ANSI C63.10	12.3.2.4	Method SA-2
	☐ ANSI C63.10	12.3.2.5	Method SA-2A (alternative)
	☐ ANSI C63.10	12.3.2.6	Method SA-3
	☐ ANSI C63.10	12.3.2.7	Method SA-3A (alternative)
	☒ ANSI C63.10	12.3.3	Maximum conducted output power using a power meter
	☐ ANSI C63.10	12.3.3.1	Method PM
	☒ ANSI C63.10	12.3.3.2	Method PM-G

4.5.4 Test Data

Mode	Channel	Test Frequency (MHz)	Power Output (dBm)	Conducted Limit (dBm)	Result
1	36	5180	13.02	24	Pass
	44	5200	12.52	24	Pass
	48	5240	12.58	24	Pass
	52	5260	12.39	24	Pass
	60	5300	11.96	24	Pass
	64	5320	11.71	24	Pass
	100	5500	12.52	24	Pass
	116	5580	13.61	24	Pass
	140	5700	14.39	24	Pass
	149	5745	13.82	30	Pass
	157	5785	13.43	30	Pass
	165	5825	13.26	30	Pass
2	36	5180	13.16	24	Pass
	44	5200	12.58	24	Pass
	48	5240	12.57	24	Pass
	52	5260	12.34	24	Pass
	60	5300	11.95	24	Pass
	64	5320	11.72	24	Pass
	100	5500	12.41	24	Pass
	116	5580	13.56	24	Pass
	140	5700	14.31	24	Pass
	149	5745	13.79	30	Pass
	157	5785	13.35	30	Pass
	165	5825	13.17	30	Pass
3	38	5190	13.83	24	Pass
	46	5230	13.53	24	Pass
	54	5270	13.04	24	Pass
	62	5310	12.61	24	Pass
	102	5510	13.12	24	Pass
	110	5550	13.58	24	Pass
	134	5670	15.04	24	Pass
	151	5755	14.35	30	Pass
	159	5795	14.18	30	Pass

Mode	Channel	Test Frequency (MHz)	Power Output (dBm)	Conducted Limit (dBm)	Result
4	36	5180	13.21	24	Pass
	44	5200	12.52	24	Pass
	48	5240	12.54	24	Pass
	52	5260	12.31	24	Pass
	60	5300	11.91	24	Pass
	64	5320	11.69	24	Pass
	100	5500	12.41	24	Pass
	116	5580	13.55	24	Pass
	140	5700	14.34	24	Pass
	149	5745	13.76	30	Pass
	157	5785	13.37	30	Pass
	165	5825	13.16	30	Pass
5	38	5190	13.85	24	Pass
	46	5230	13.51	24	Pass
	54	5270	13.05	24	Pass
	62	5310	12.58	24	Pass
	102	5510	13.09	24	Pass
	110	5550	13.56	24	Pass
	134	5670	15.02	24	Pass
	151	5755	14.36	30	Pass
	159	5795	14.18	30	Pass
6	42	5210	12.86	24	Pass
	58	5290	12.26	24	Pass
	106	5530	12.89	24	Pass
	155	5775	13.61	30	Pass

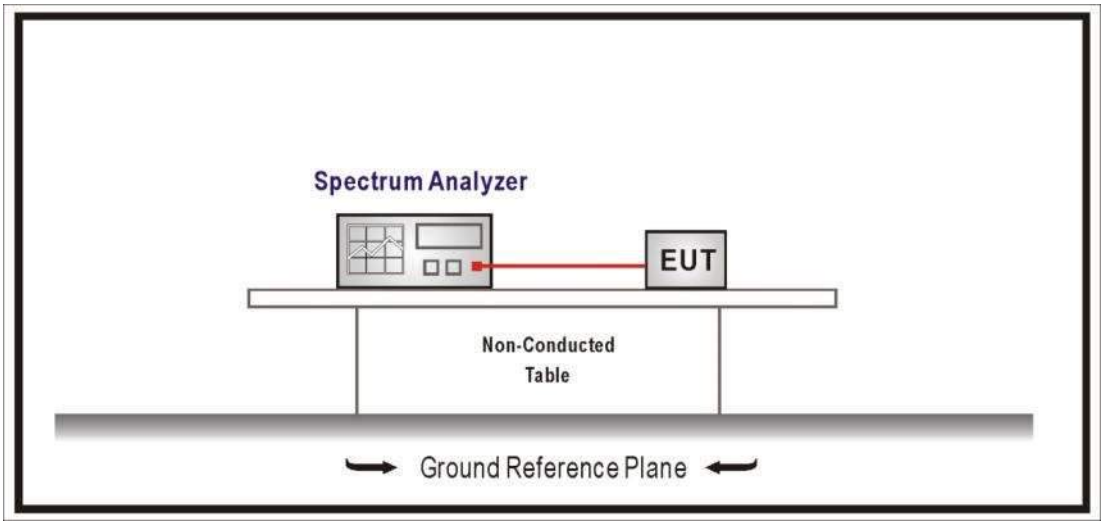
4.6 Peak Power Spectral Density	VERDICT: PASS

4.6.1 Limit:

Standard		FCC Part 15 Subpart C Paragraph 15.407
☒	For the band 5.15-5.25 GHz	
	☐	Outdoor access point: the maximum power spectral density shall not exceed 17 dBm/MHz. If G_{TX}>6dBi, then Pout≤17 - (G_{TX} - 6)
	☐	Indoor access point: the maximum power spectral density shall not exceed 17 dBm/MHz. If G_{TX}>6dBi, then Pout≤17 - (G_{TX} - 6)
	☐	Fixed point-to-point access points: the maximum power spectral density shall not exceed 17 dBm/MHz. If G_{TX}>23dBi, then Pout≤17 - (G_{TX} - 23)
	☒	Mobile and portable client devices: the maximum power spectral density shall not exceed 11 dBm/MHz. If G_{TX}>6dBi, then Pout≤11 - (G_{TX} - 6)
☒	For the 5.25-5.35 GHz:	
	☒	the maximum power spectral density shall not exceed 11 dBm/MHz. If G_{TX}>6dBi, then Pout≤11 - (G_{TX} - 6)
☒	For the 5.47-5.725 GHz:	
	☒	the maximum power spectral density shall not exceed 11 dBm/MHz.If G_{TX}>6dBi, then Pout≤11 - (G_{TX} - 6)
☒	For the band 5.725-5.85 GHz:	
	☒	the maximum power spectral density shall not exceed 30 dBm/500KHz. If G_{TX}>6dBi, then Pout≤30 - (G_{TX} - 6)

Note 1: G_{TX} directional gain of transmitting antennas.
Note 2: P_{out} is maximum peak conducted output power.

4.6.2 Test Setup



4.6.3 Test Procedure

	References Rule	Chapter	Description
☒	ANSI C63.10	12.5	Peak power spectral density
☒	FCC KDB 789033 D02v02r01	F	Maximum Power Spectral Density (PSD)

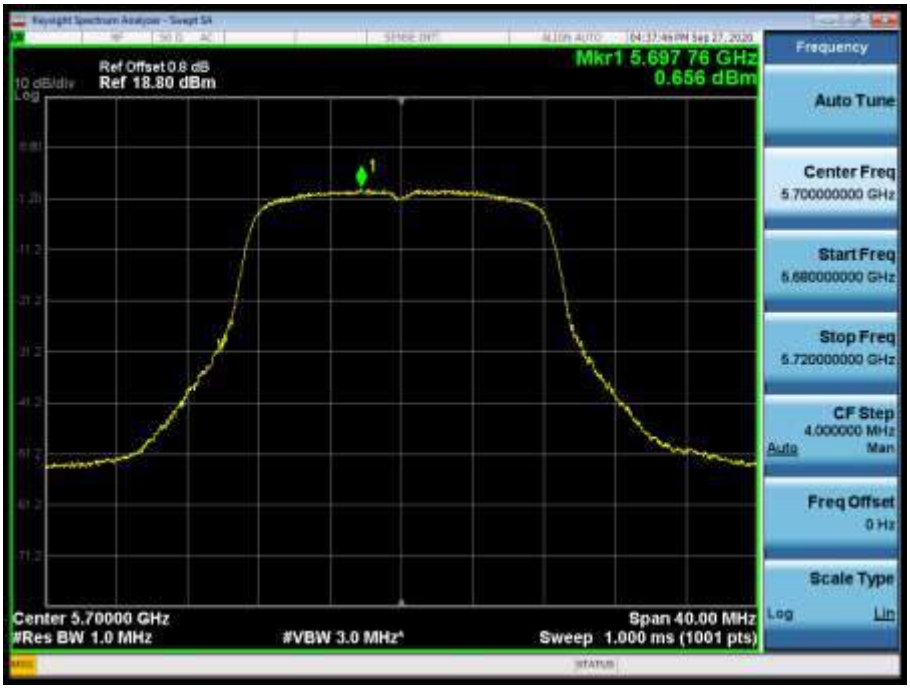
4.6.4 Test Data

Mode	Channel	Test Frequency (MHz)	Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
1	36	5180	-0.767	≤11	Pass
	44	5200	-0.963	≤11	Pass
	48	5240	-0.711	≤11	Pass
	52	5260	-1.285	≤11	Pass
	60	5300	-1.734	≤11	Pass
	64	5320	-1.871	≤11	Pass
	100	5500	-0.631	≤11	Pass
	116	5580	0.155	≤11	Pass
	140	5700	0.656	≤11	Pass
2	36	5180	-0.921	≤11	Pass
	44	5200	-1.279	≤11	Pass
	48	5240	-0.990	≤11	Pass
	52	5260	-1.125	≤11	Pass
	60	5300	-2.206	≤11	Pass
	64	5320	-2.471	≤11	Pass
	100	5500	-1.242	≤11	Pass
	116	5580	-0.250	≤11	Pass
	140	5700	0.139	≤11	Pass
3	38	5190	-6.013	≤11	Pass
	46	5230	-5.876	≤11	Pass
	54	5270	-6.282	≤11	Pass
	62	5310	-6.789	≤11	Pass
	102	5510	-6.556	≤11	Pass
	110	5550	-6.120	≤11	Pass
	134	5670	-5.360	≤11	Pass

Mode	Channel	Test Frequency (MHz)	Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
4	36	5180	-1.289	≤11	Pass
	44	5200	-1.188	≤11	Pass
	48	5240	-1.106	≤11	Pass
	52	5260	-1.580	≤11	Pass
	60	5300	-2.247	≤11	Pass
	64	5320	-2.439	≤11	Pass
	100	5500	-0.963	≤11	Pass
	116	5580	-0.191	≤11	Pass
	140	5700	0.124	≤11	Pass
5	38	5190	-5.728	≤11	Pass
	46	5230	-5.544	≤11	Pass
	54	5270	-6.115	≤11	Pass
	62	5310	-6.722	≤11	Pass
	102	5510	-6.603	≤11	Pass
	110	5550	-6.240	≤11	Pass
	134	5670	-5.364	≤11	Pass
6	42	5210	-8.911	≤11	Pass
	58	5290	-9.587	≤11	Pass
	106	5530	-9.884	≤11	Pass

Remark 1: The worst case of PSD as below:

Mode 1 / CH140 / 5700MHz

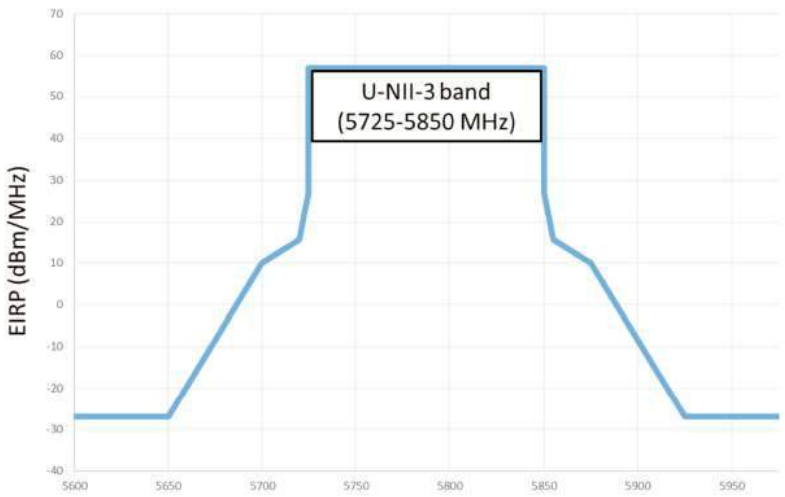


Mode	Channel	Test Frequency (MHz)	Measurement PSD (dBm/500kHz)	Limit (dBm/500kHz)	Result
1	149	5745	-1.961	≤30	Pass
	157	5785	-2.622	≤30	Pass
	165	5825	-3.037	≤30	Pass
2	149	5745	-2.065	≤30	Pass
	157	5785	-3.014	≤30	Pass
	165	5825	-3.417	≤30	Pass
3	151	5755	-6.034	≤30	Pass
	159	5795	-6.059	≤30	Pass
4	149	5745	-2.231	≤30	Pass
	157	5785	-3.138	≤30	Pass
	165	5825	-3.290	≤30	Pass
5	151	5755	-5.757	≤30	Pass
	159	5795	-6.617	≤30	Pass
6	155	5775	-9.645	≤30	Pass
Remark 1: The worst case of PSD as below:					
Mode 1 / CH149 / 5745MHz					

4.7 Radiated Emission Band Edge — VERDICT: PASS

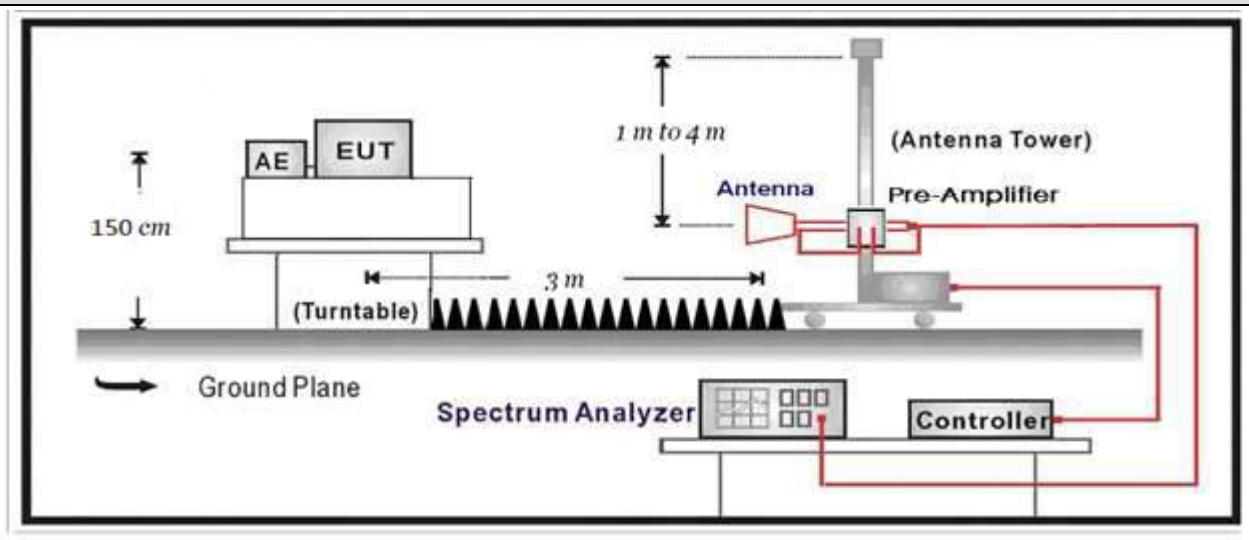
4.7.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.247(d) , 15.205, 15.209			
Frequency bands (MHz)	Detector	Limit (dBμV/m)	RBW (MHz)	Distance (m)
5150-5350 5470-5725	PK	74	1	3
	AV	54	1	3
Note: The field strength of emissions appearing within these frequency bands shall not exceed the limits.				

Operating Frequency Band (MHz)	Limit (dBm/MHz)
5725 - 5850	

4.7.2 Test Setup

Above 1GHz Test Setup:



4.7.3 Test Procedure

	References Rule	Chapter	Description
☐	ANSI C63.10	12.7.3	Emissions in non-restricted frequency bands
☒	ANSI C63.10	12.7.2	Emissions in restricted frequency bands
	☒ ANSI C63.10	12.7.5	Radiated emission measurements
	☒ ANSI C63.10	12.7.6	Procedure for peak unwanted emissions measurements above 1000 MHz
	☒ ANSI C63.10	12.7.7	Procedures for average unwanted emissions measurements above 1000 MHz
	☐ ANSI C63.10	12.7.7.2	Method AD (average detection)—primary method
	☒ ANSI C63.10	12.7.7.3	Method VB-A (Alternative)
	☒ ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
	☒ ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
	☒ ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz

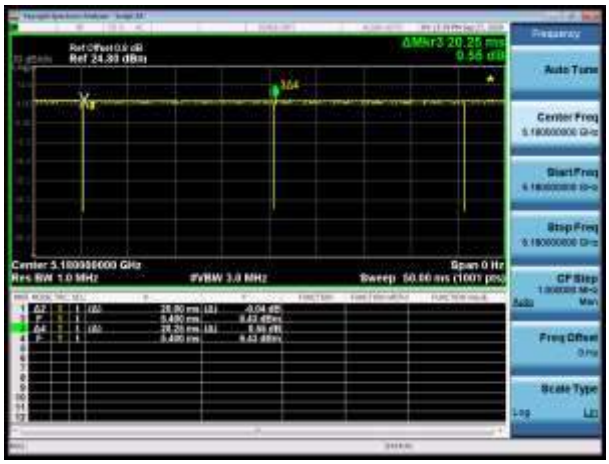
4.7.4 Test Data

Test Mode	Tx On (ms)	VBW (kHz)	Tx On + Tx Off (ms)	Duty Cycle
1	20.00	0.01	20.25	98.77%
2	16.65	0.01	16.80	99.11%
3	8.04	0.01	8.16	98.53%
4	16.65	0.01	16.85	98.81%
5	8.02	0.01	8.18	98.04%
6	3.71	0.27	3.85	96.36%

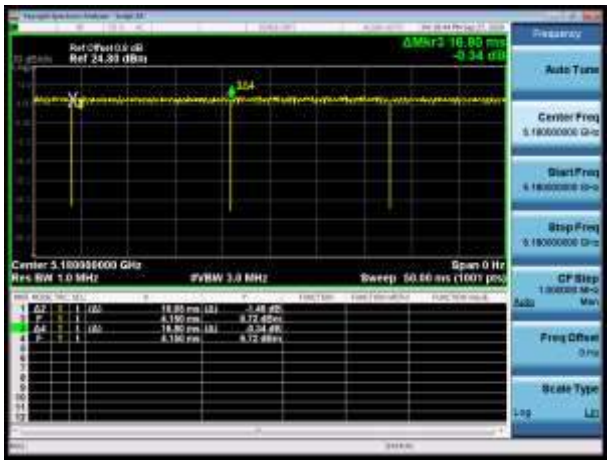
Note 1: T means the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

Note 2: According to KDB 789033, when test for Radiated Emission Band Edge and Radiated Emission, for average detector set: VBW ≥ 1/T will be used.

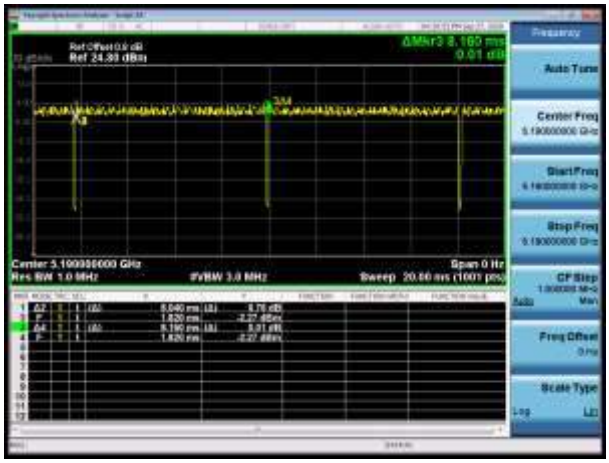
802.11a



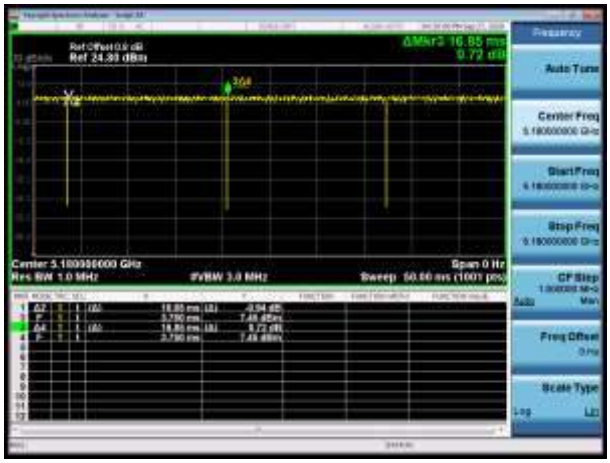
802.11 n(20MHz)

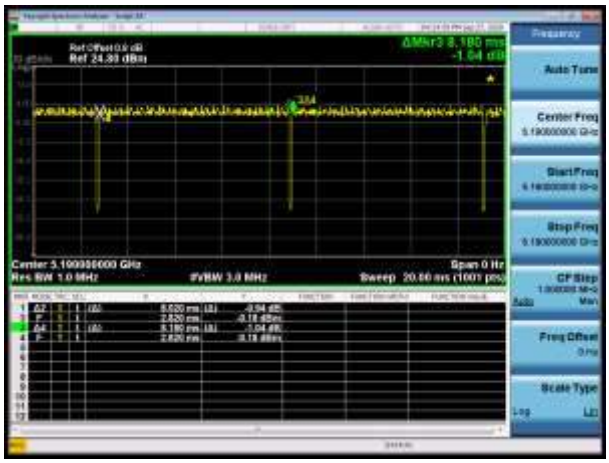
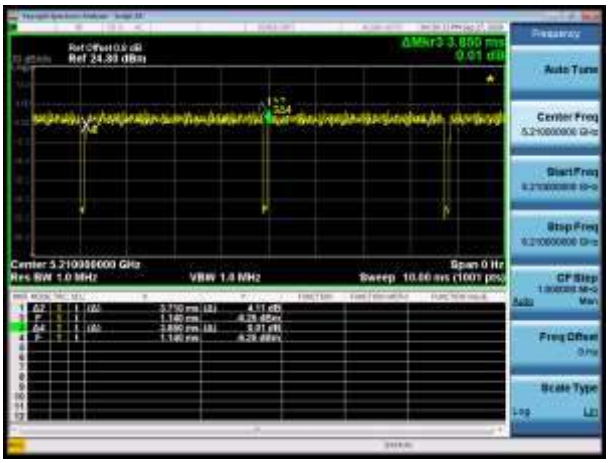


802.11n(40MHz)

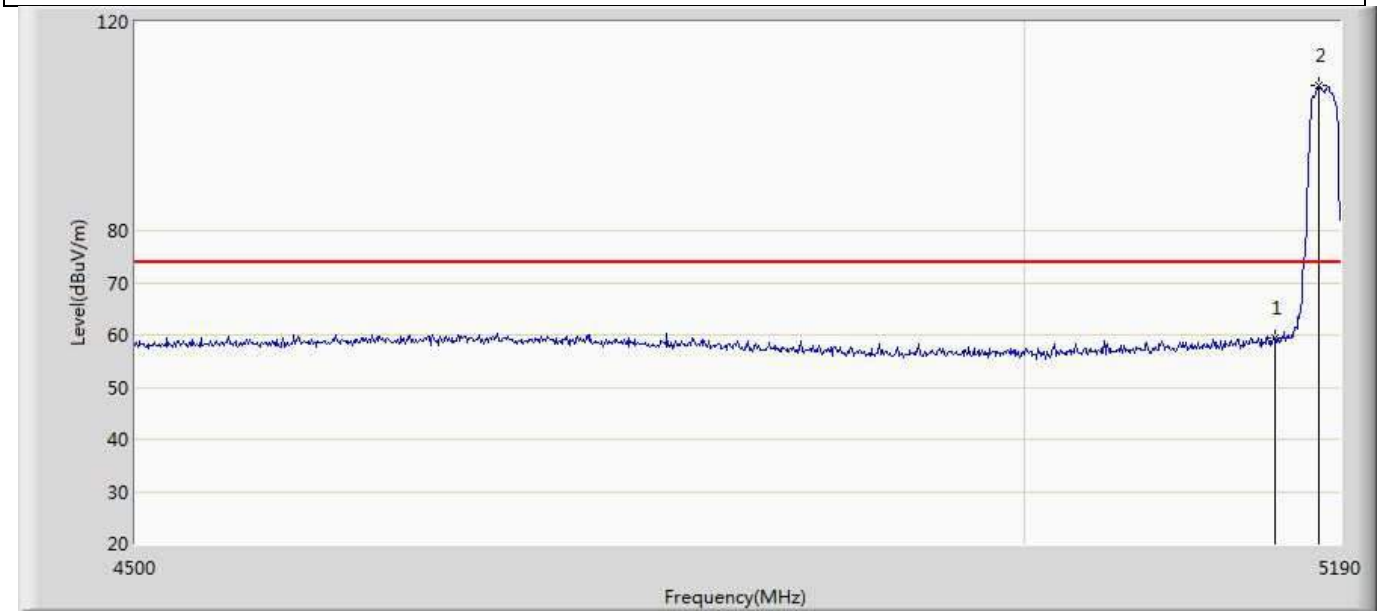


802.11ac(20MHz)



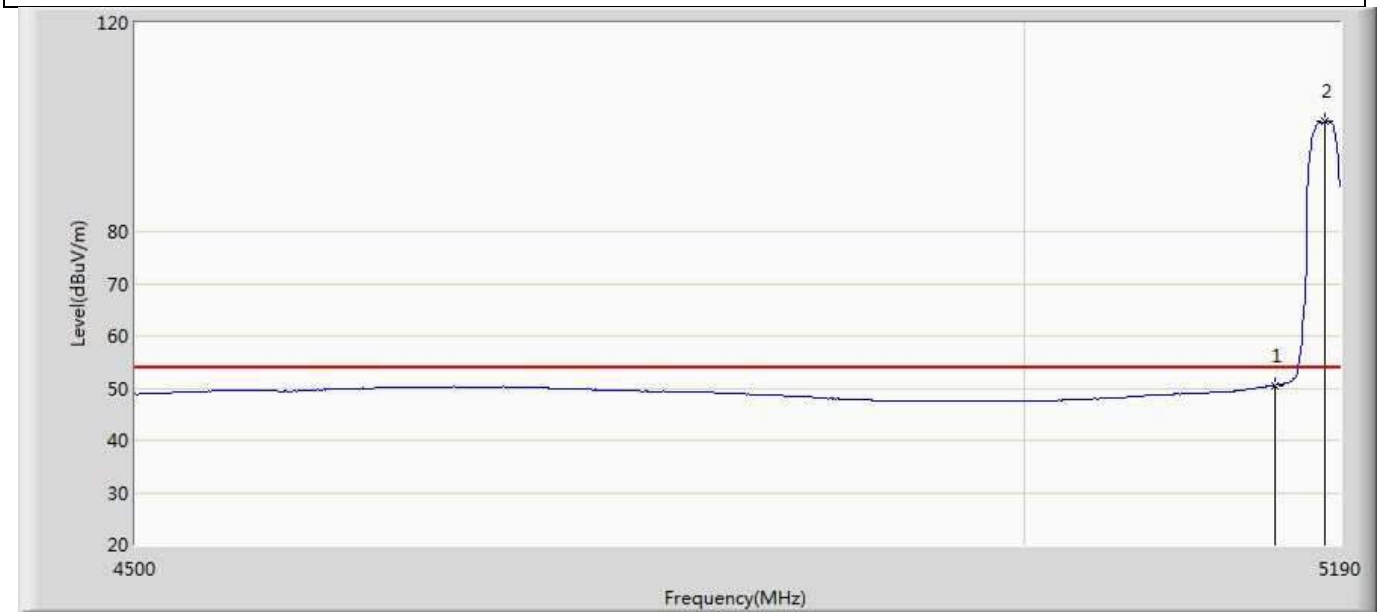
802.11ac(40MHz)	802.11ac(80MHz)
	

Profile: 2090075R	Page No.: 1
Engineer: Yingfei.Wang	
Site: AC5	Time: 2019/07/18 - 20:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 1:Transmint at 5180MHz by 802.11a	



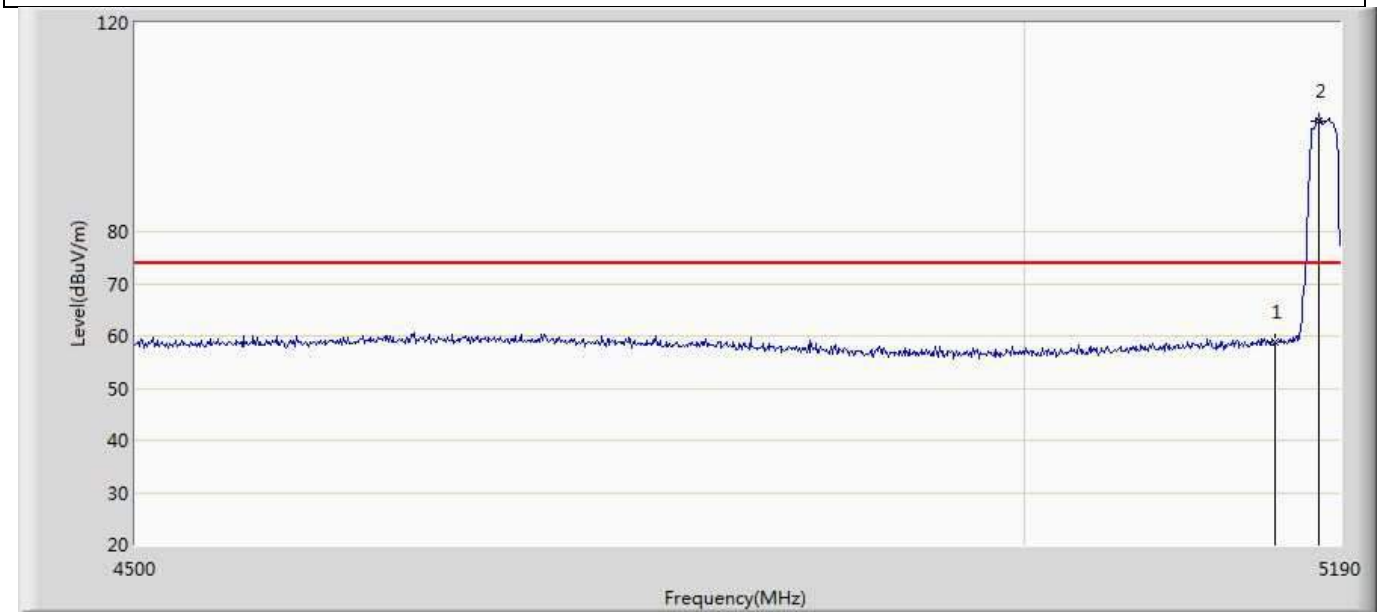
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	59.341	22.242	-14.659	74.000	37.100	PK
2	*	5176.890	107.836	70.678	33.836	74.000	37.159	PK

Profile: 2090075R	Page No.: 2
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 18:04
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 1:Transmint at 5180MHz by 802.11a	



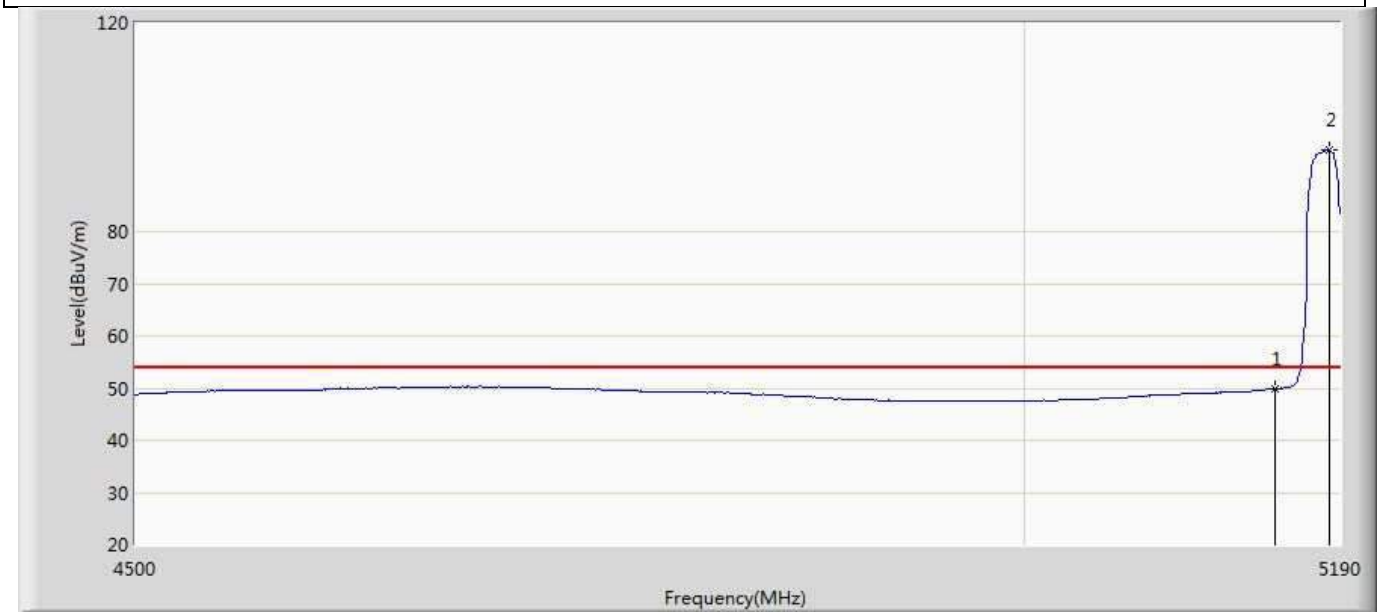
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	50.514	13.415	-3.486	54.000	37.100	AV
2	*	5180.340	101.039	63.873	47.039	54.000	37.166	AV

Profile: 2090075R	Page No.: 3
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 18:07
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 1:Transmint at 5180MHz by 802.11a	



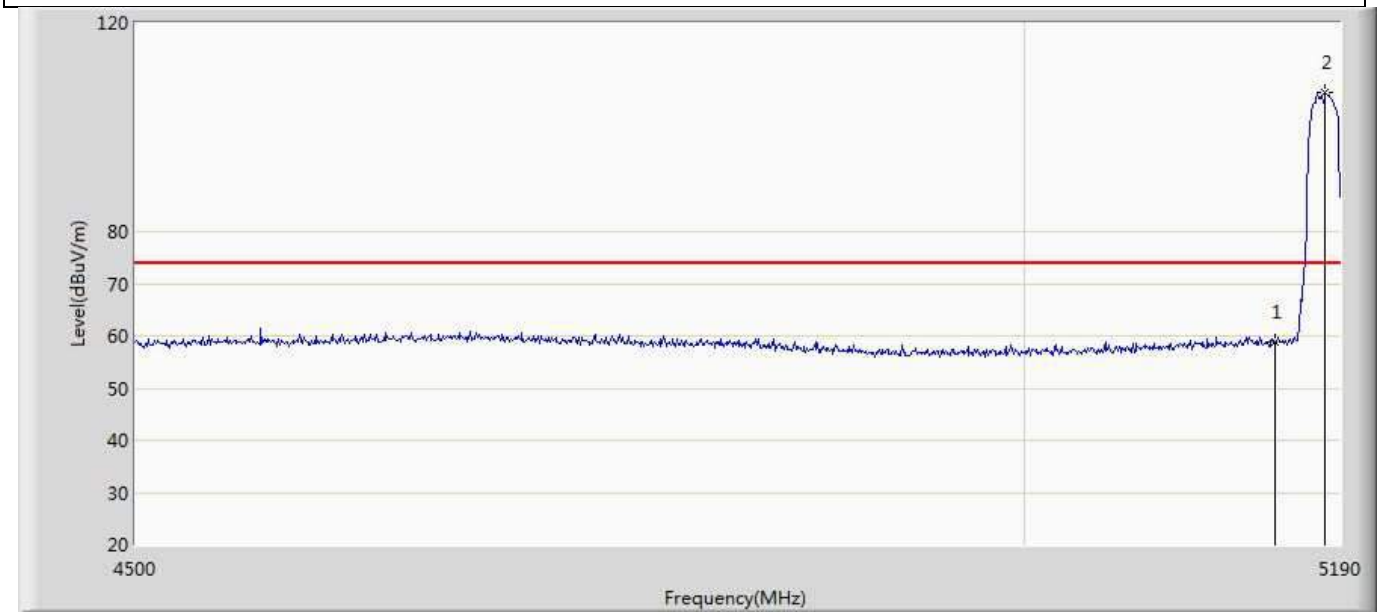
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	58.943	21.844	-15.057	74.000	37.100	PK
2	*	5176.890	101.274	64.116	27.274	74.000	37.159	PK

Profile: 2090075R	Page No.: 4
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 18:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 1:Transmint at 5180MHz by 802.11a	



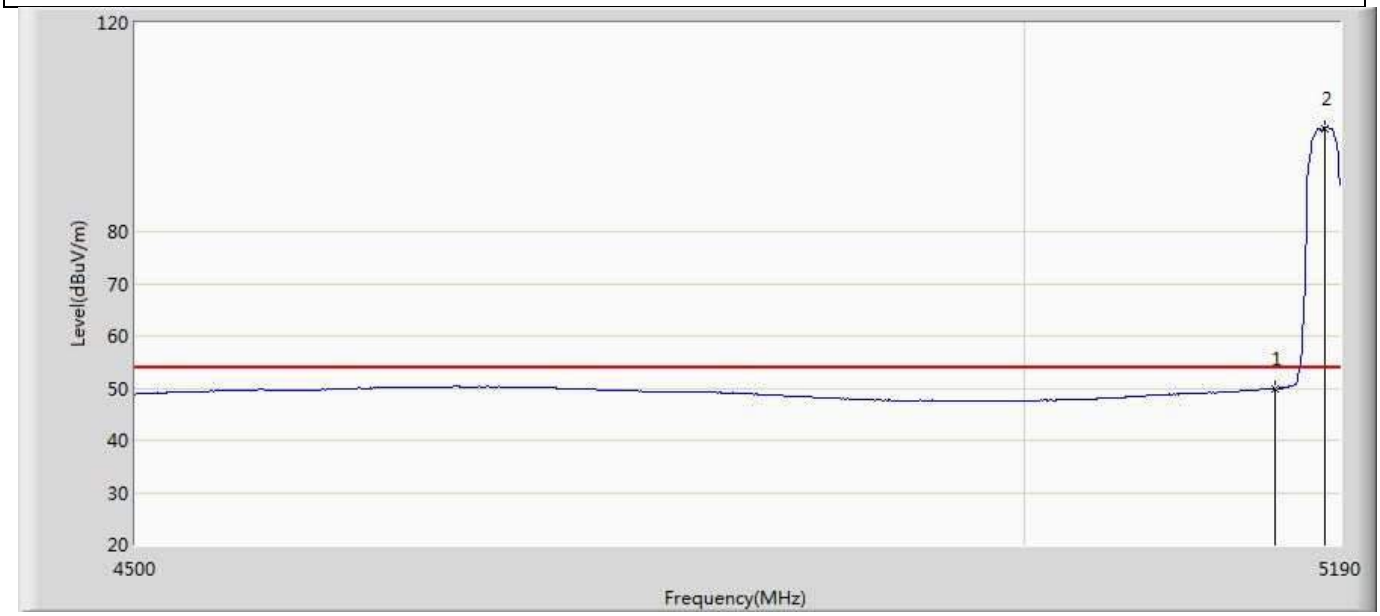
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	49.818	12.719	-4.182	54.000	37.100	AV
2	*	5183.100	95.577	58.405	41.577	54.000	37.173	AV

Profile: 2090075R	Page No.: 5
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 18:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 2:Transmint at 5180MHz by 802.11n(20MHz)	



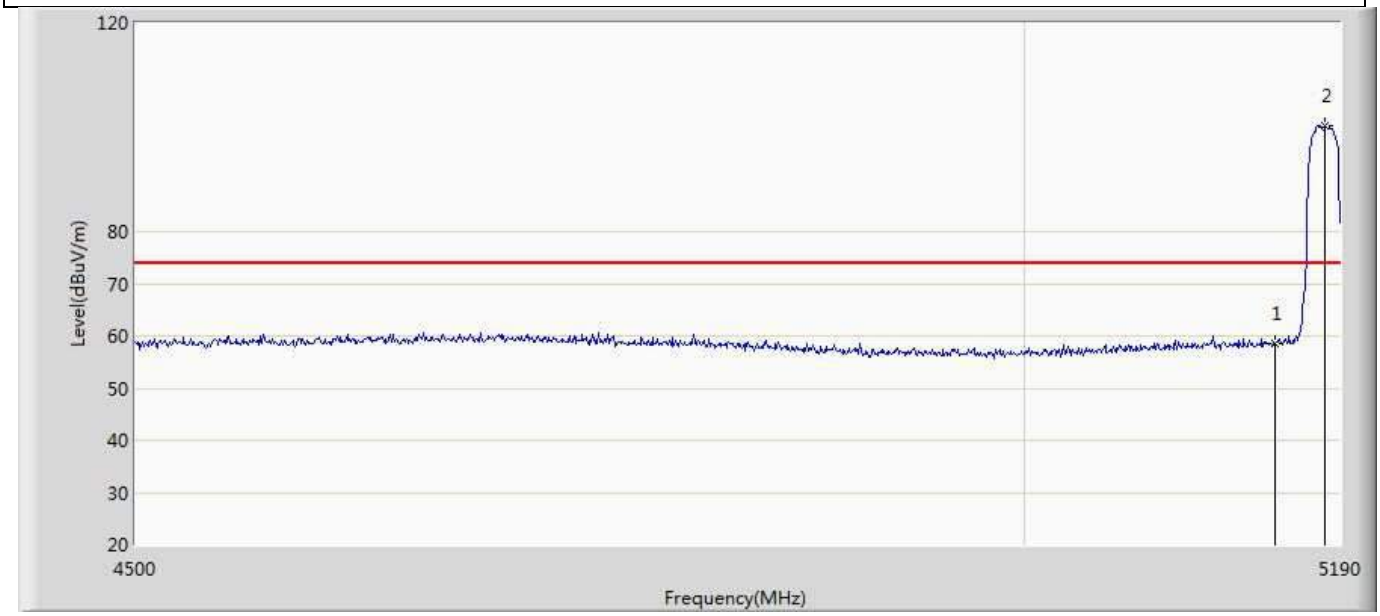
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	58.974	21.875	-15.026	74.000	37.100	PK
2	*	5181.030	106.661	69.493	32.661	74.000	37.168	PK

Profile: 2090075R	Page No.: 6
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 18:14
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 2:Transmint at 5180MHz by 802.11n(20MHz)	



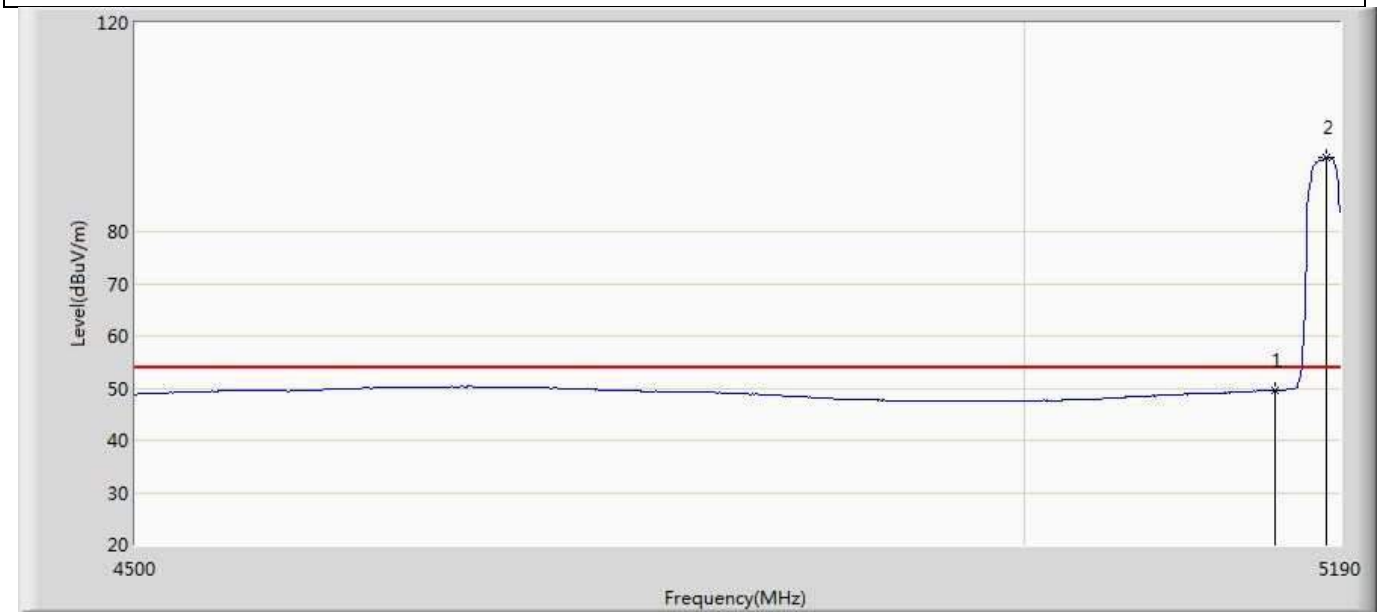
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	49.943	12.844	-4.057	54.000	37.100	AV
2	*	5180.340	99.704	62.538	45.704	54.000	37.166	AV

Profile: 2090075R	Page No.: 7
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 18:15
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 2:Transmint at 5180MHz by 802.11n(20MHz)	



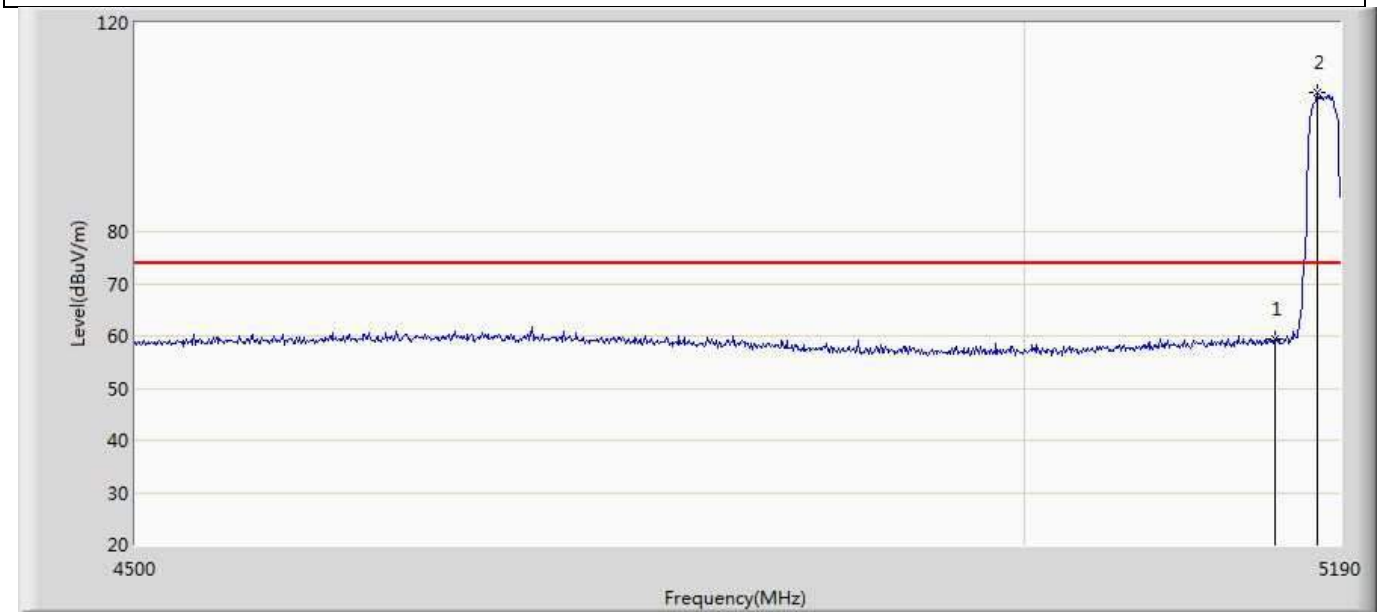
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	58.677	21.578	-15.323	74.000	37.100	PK
2	*	5181.030	100.149	62.981	26.149	74.000	37.168	PK

Profile: 2090075R	Page No.: 8
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 18:18
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 2:Transmint at 5180MHz by 802.11n(20MHz)	



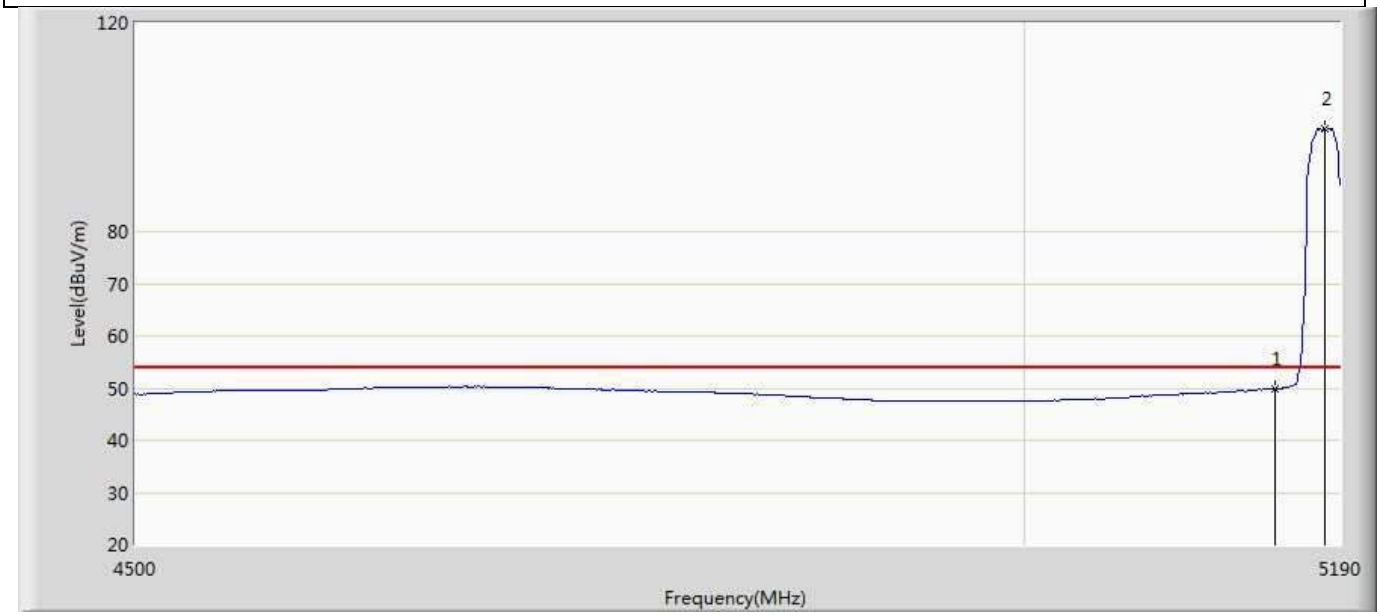
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	49.584	12.485	-4.416	54.000	37.100	AV
2	*	5181.720	94.217	57.048	40.217	54.000	37.169	AV

Profile: 2090075R	Page No.: 9
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 18:19
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 3:Transmint at 5180MHz by 802.11ac(20MHz)	



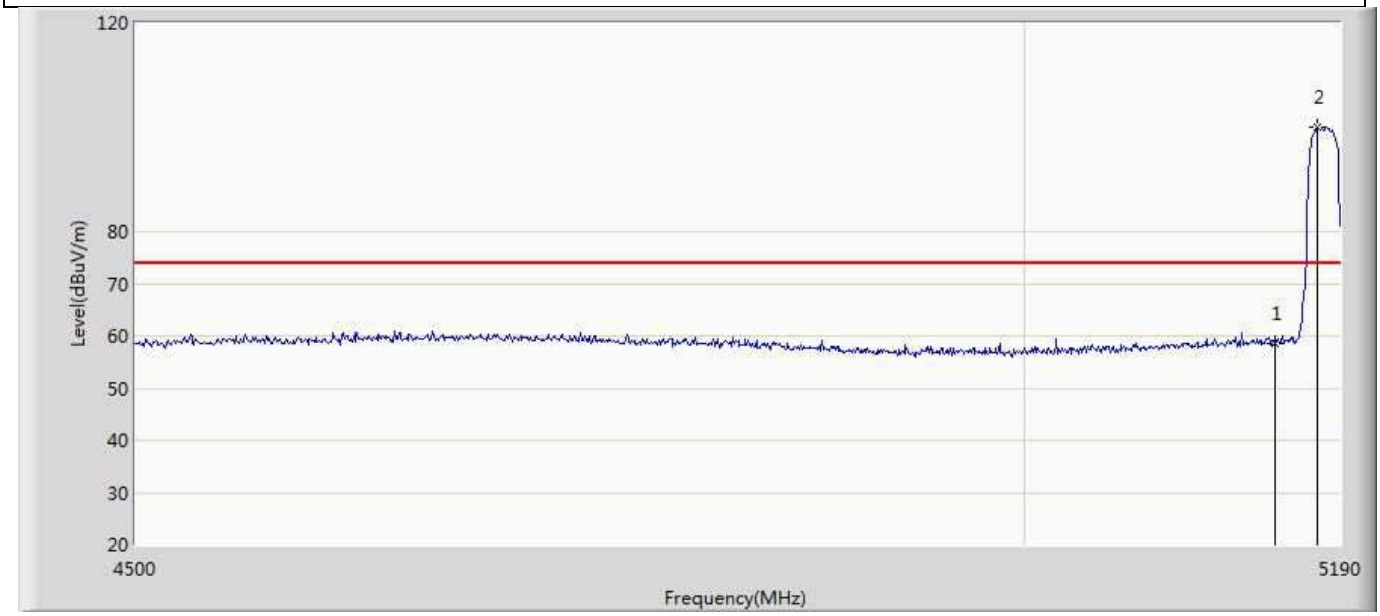
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	59.304	22.205	-14.696	74.000	37.100	PK
2	*	5176.200	106.626	69.469	32.626	74.000	37.156	PK

Profile: 2090075R	Page No.: 10
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 18:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 3:Transmint at 5180MHz by 802.11ac(20MHz)	



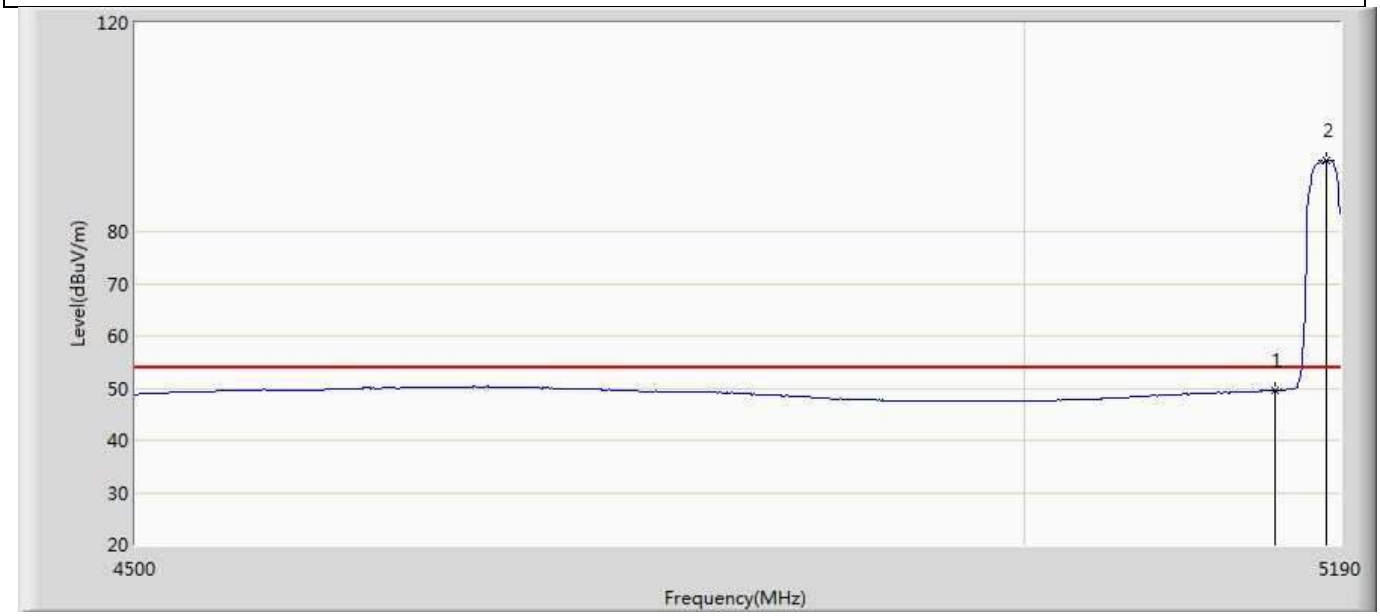
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	49.869	12.770	-4.131	54.000	37.100	AV
2	*	5180.340	99.749	62.583	45.749	54.000	37.166	AV

Profile: 2090075R	Page No.: 11
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 18:22
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 3:Transmint at 5180MHz by 802.11ac(20MHz)	



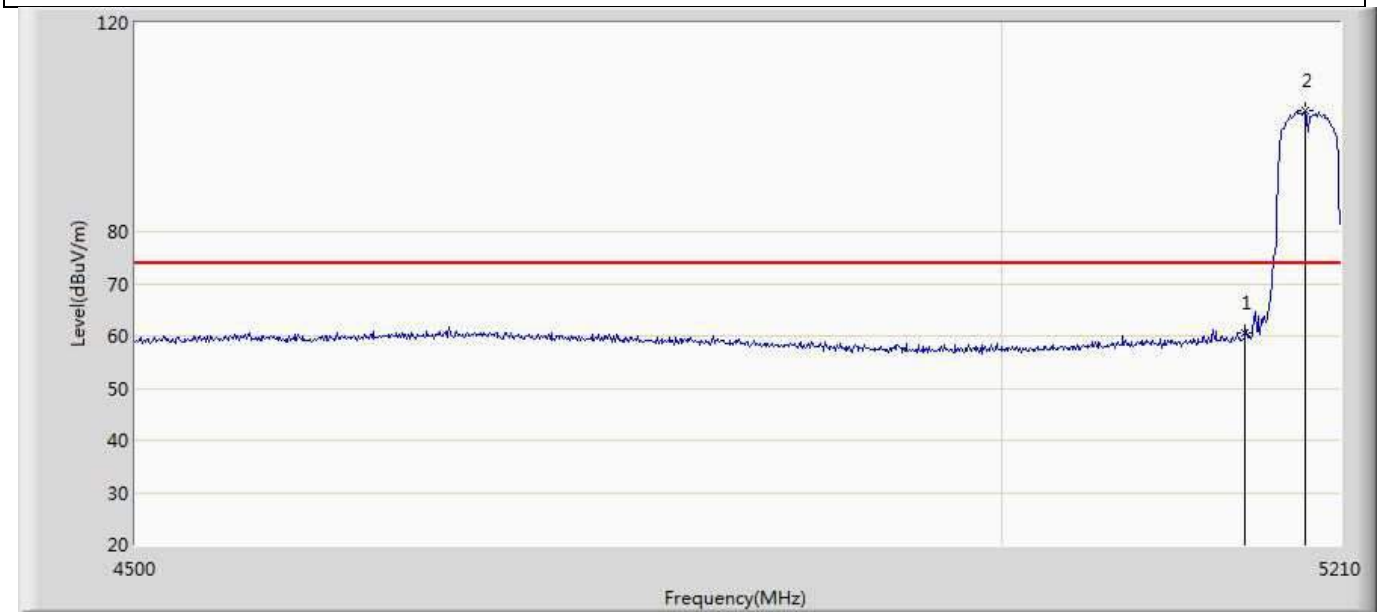
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	58.674	21.575	-15.326	74.000	37.100	PK
2	*	5176.200	100.065	62.908	26.065	74.000	37.156	PK

Profile: 2090075R	Page No.: 12
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 18:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 3:Transmint at 5180MHz by 802.11ac(20MHz)	



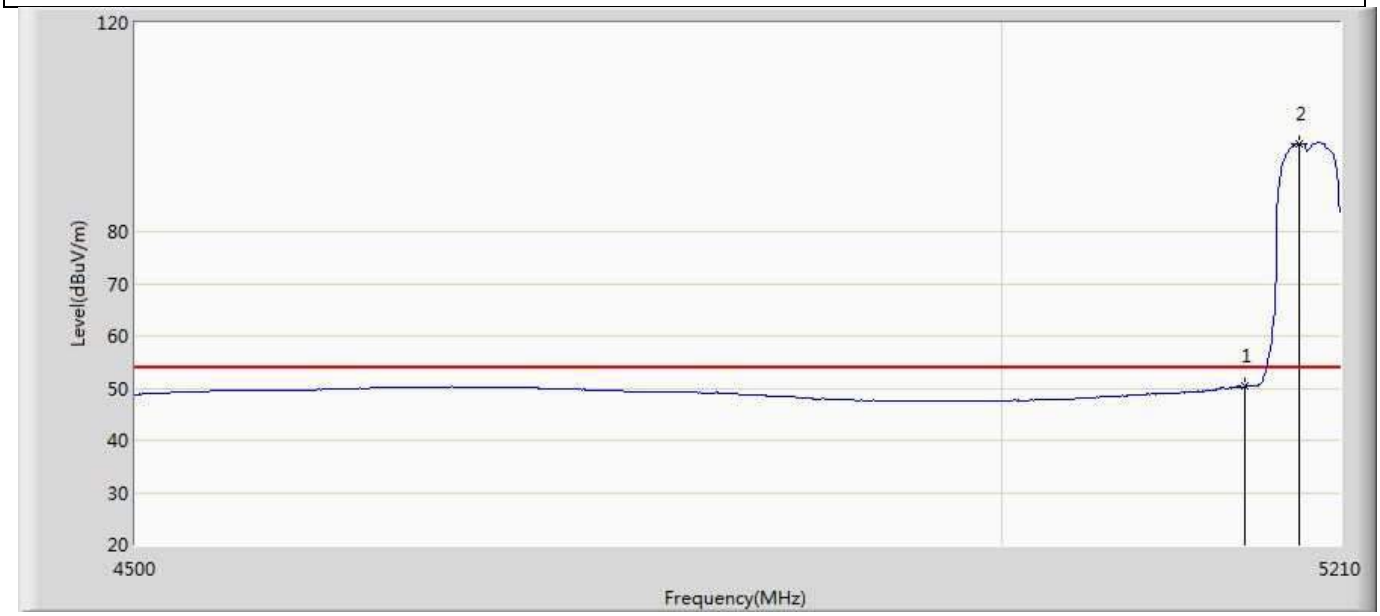
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	49.616	12.517	-4.384	54.000	37.100	AV
2	*	5181.720	93.694	56.525	39.694	54.000	37.169	AV

Profile: 2090075R	Page No.: 13
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 18:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 4:Transmint at 5190MHz by 802.11n(40MHz)	



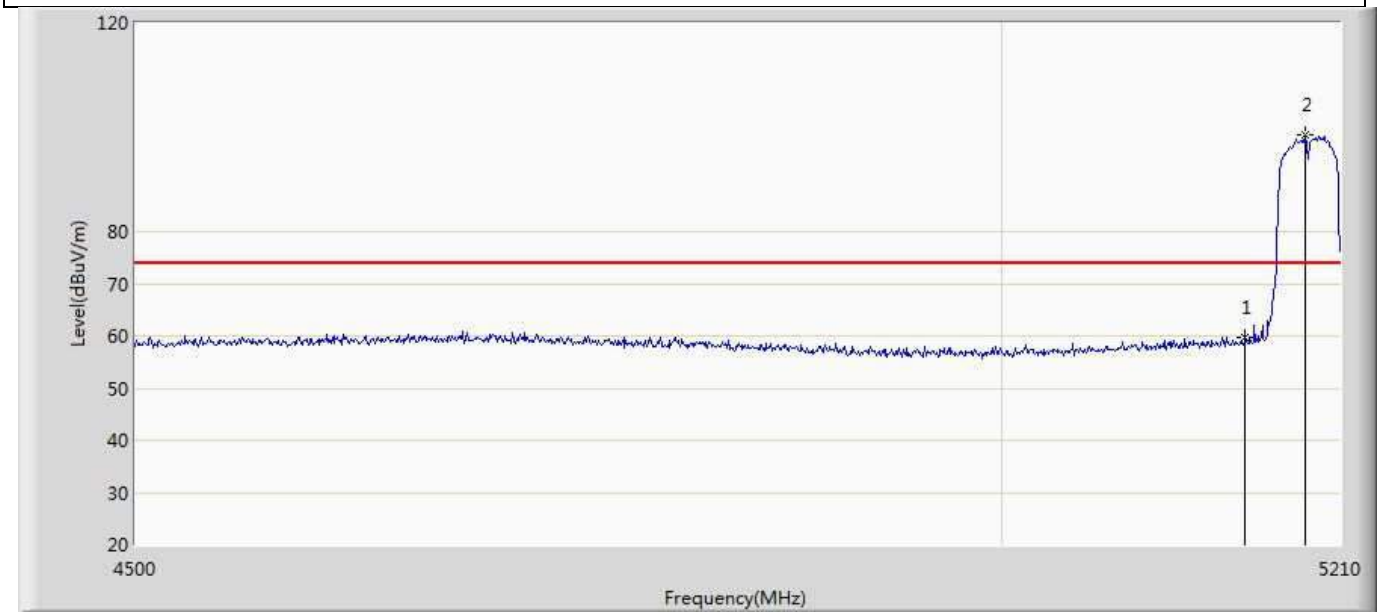
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	60.502	23.403	-13.498	74.000	37.100	PK
2	*	5187.990	103.153	65.970	29.153	74.000	37.184	PK

Profile: 2090075R	Page No.: 14
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 18:31
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 4:Transmint at 5190MHz by 802.11n(40MHz)	



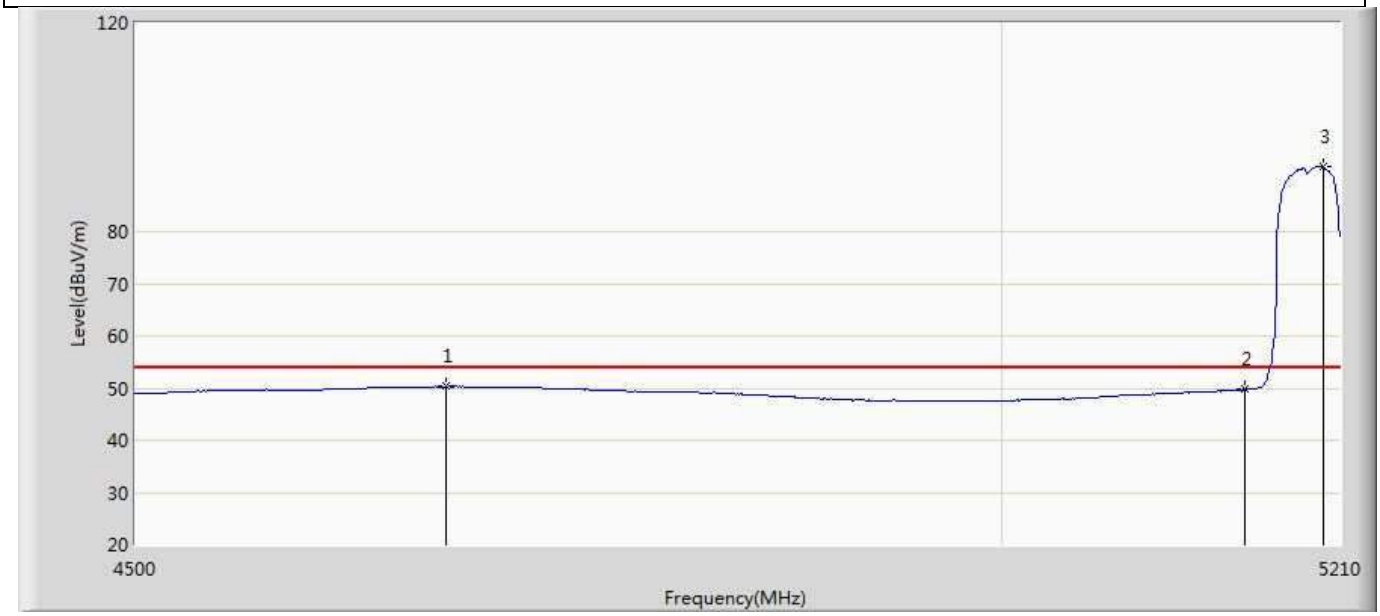
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	50.293	13.194	-3.707	54.000	37.100	AV
2	*	5184.440	96.919	59.744	42.919	54.000	37.175	AV

Profile: 2090075R	Page No.: 15
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 18:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 4:Transmint at 5190MHz by 802.11n(40MHz)	



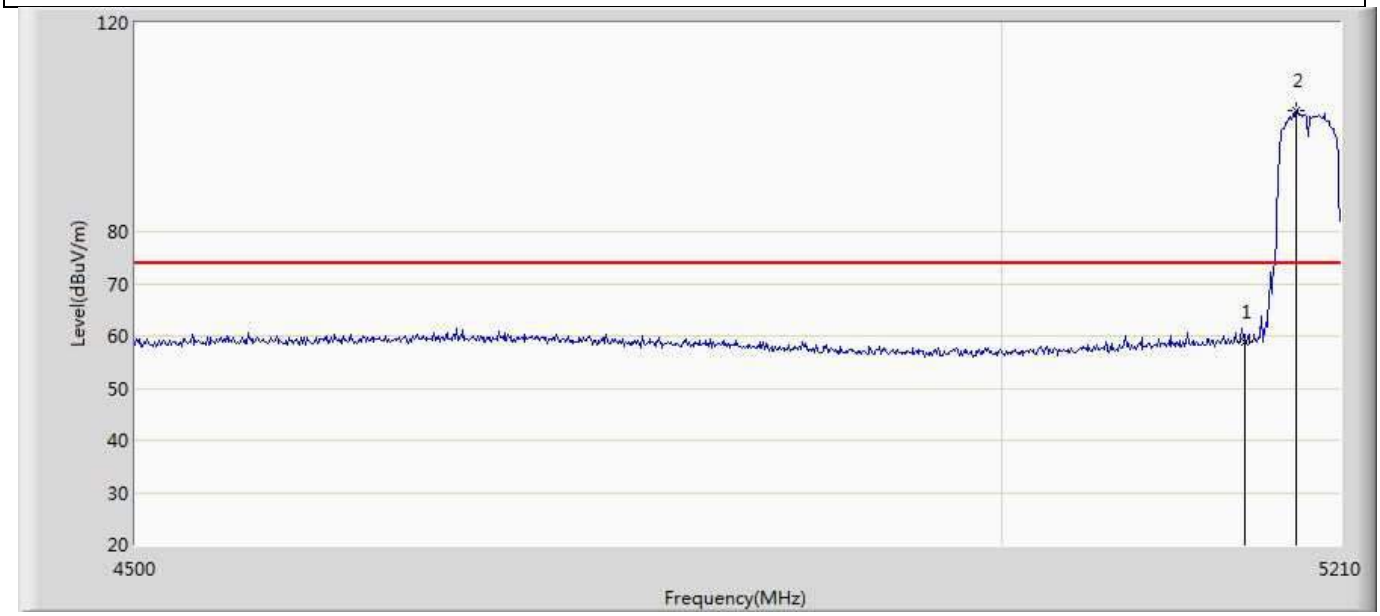
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	59.599	22.500	-14.401	74.000	37.100	PK
2	*	5187.990	98.442	61.259	24.442	74.000	37.184	PK

Profile: 2090075R	Page No.: 16
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 18:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 4:Transmint at 5190MHz by 802.11n(40MHz)	



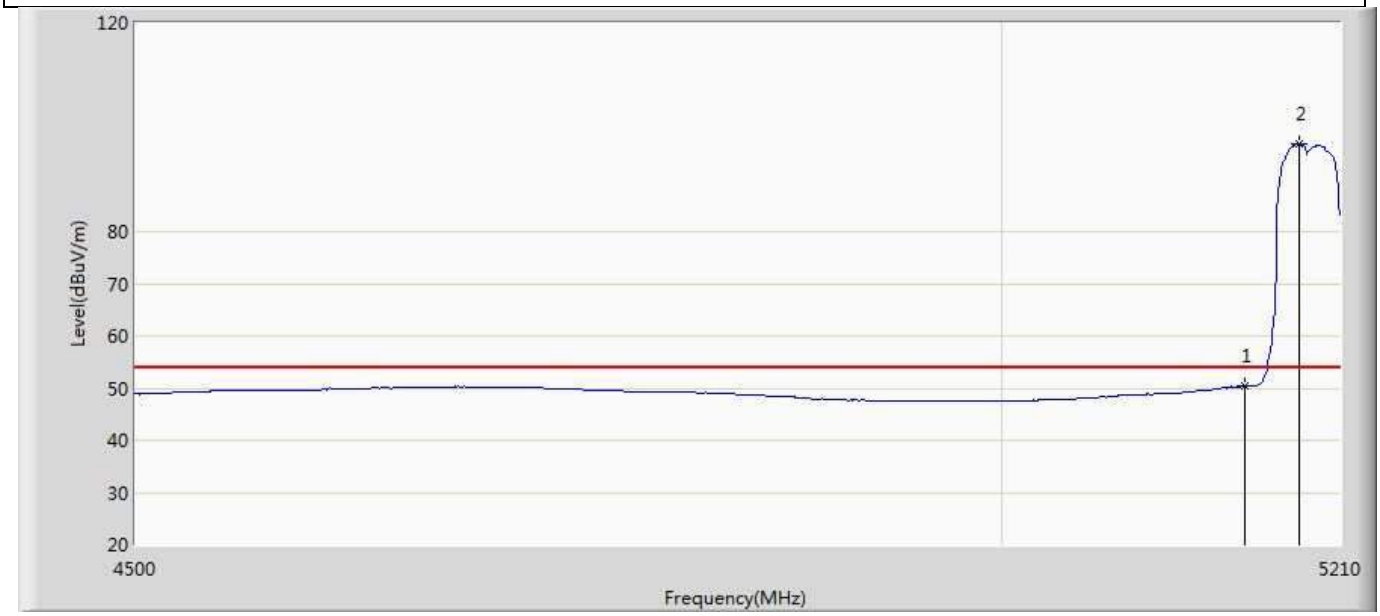
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4673.240	50.294	13.134	-3.706	54.000	37.160	AV
2		5150.000	49.794	12.695	-4.206	54.000	37.100	AV
3	*	5199.350	92.321	55.112	38.321	54.000	37.209	AV

Profile: 2090075R	Page No.: 17
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 18:42
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 5:Transmint at 5190MHz by 802.11ac(40MHz)	



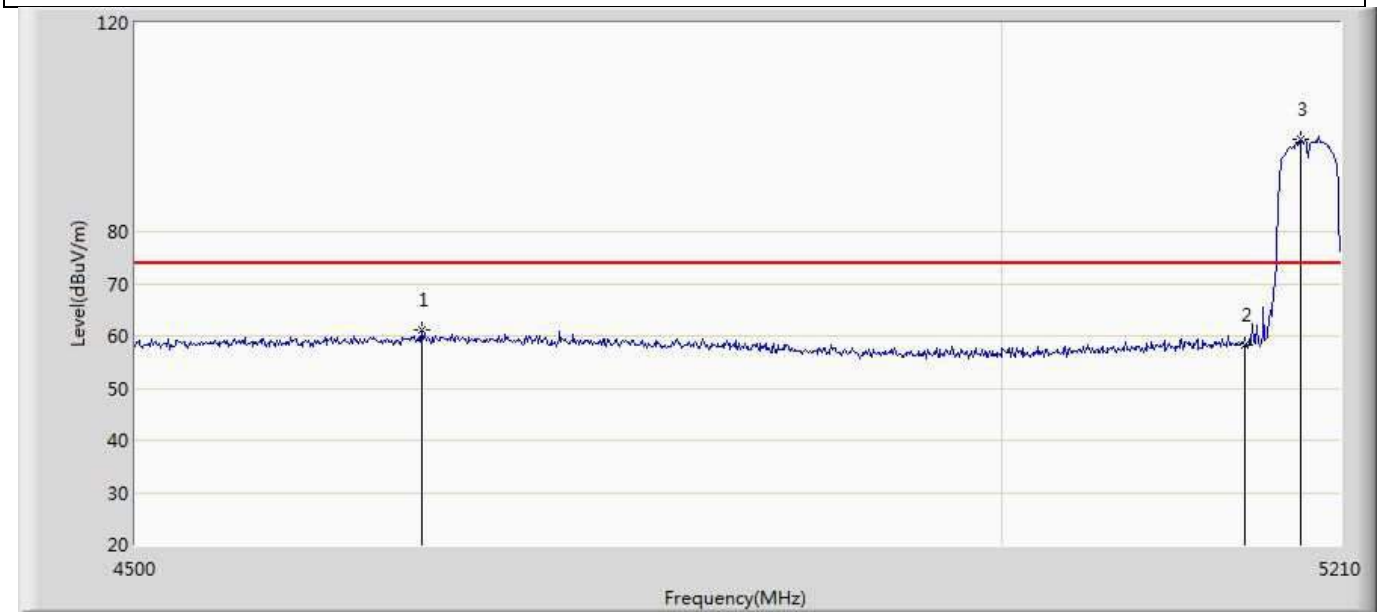
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	58.984	21.885	-15.016	74.000	37.100	PK
2	*	5182.310	103.088	65.917	29.088	74.000	37.171	PK

Profile: 2090075R	Page No.: 18
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 18:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 5:Transmint at 5190MHz by 802.11ac(40MHz)	



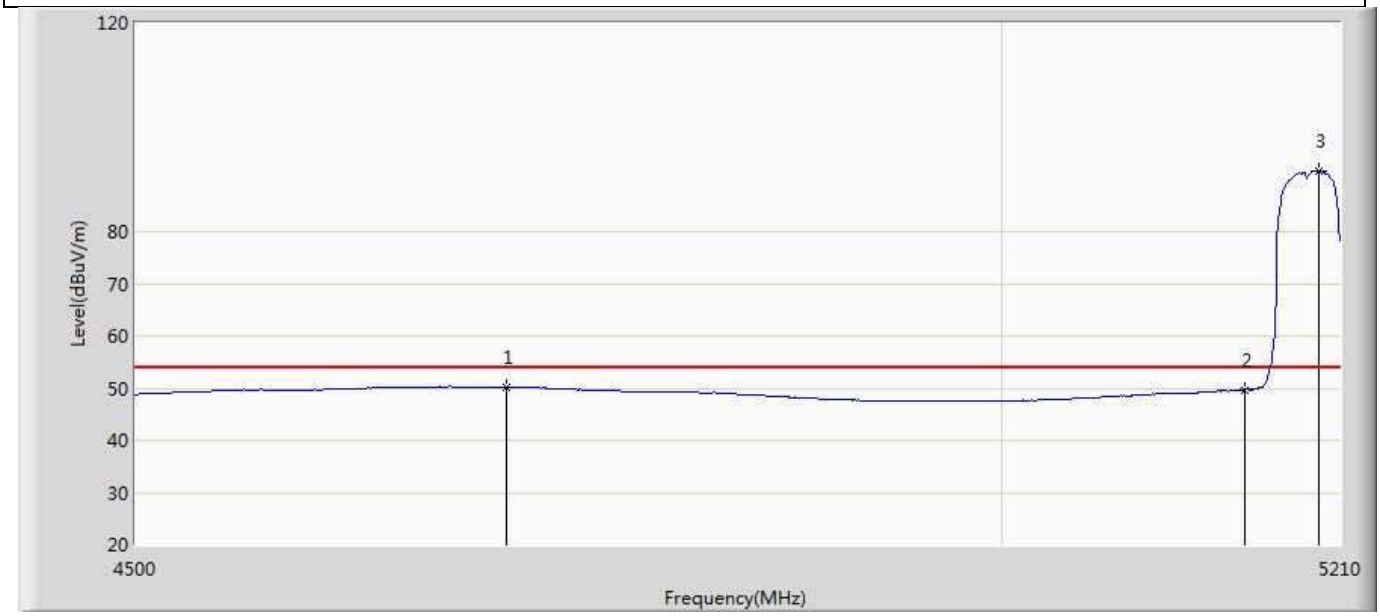
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	50.346	13.247	-3.654	54.000	37.100	AV
2	*	5184.440	96.712	59.537	42.712	54.000	37.175	AV

Profile: 2090075R	Page No.: 19
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 18:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 5:Transmint at 5190MHz by 802.11ac(40MHz)	



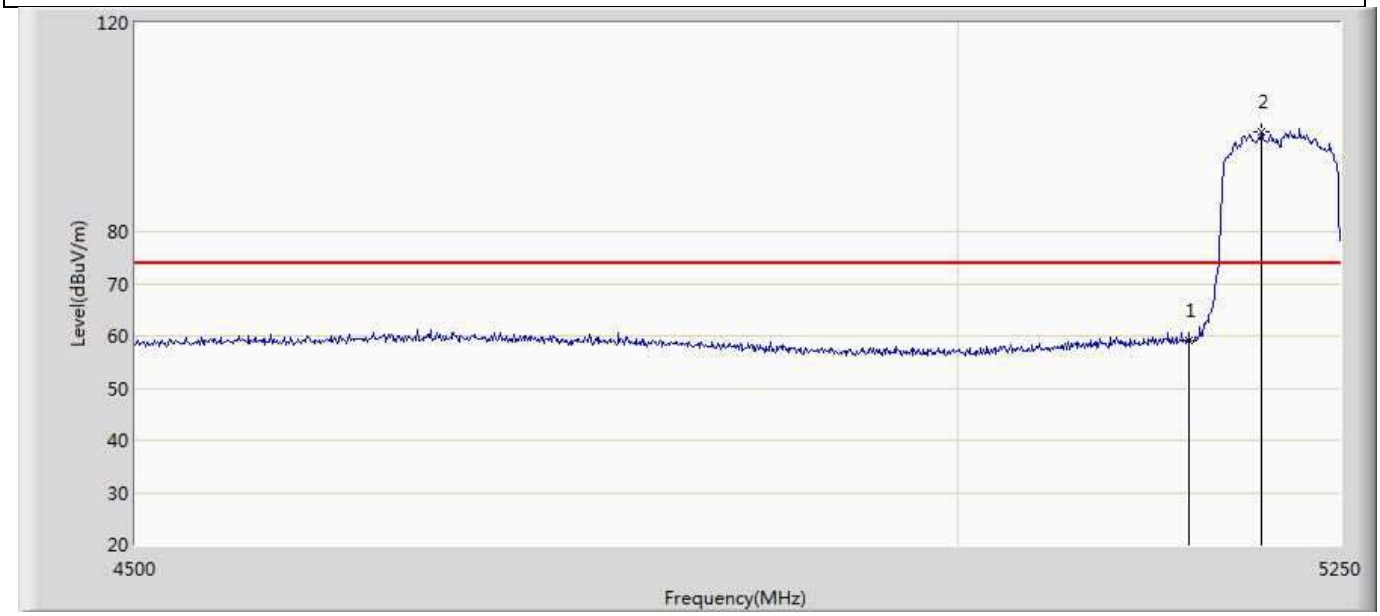
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4659.750	61.301	24.133	-12.699	74.000	37.167	PK
2		5150.000	58.252	21.153	-15.748	74.000	37.100	PK
3	*	5185.150	97.567	60.390	23.567	74.000	37.177	PK

Profile: 2090075R	Page No.: 20
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 18:50
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 5:Transmint at 5190MHz by 802.11ac(40MHz)	



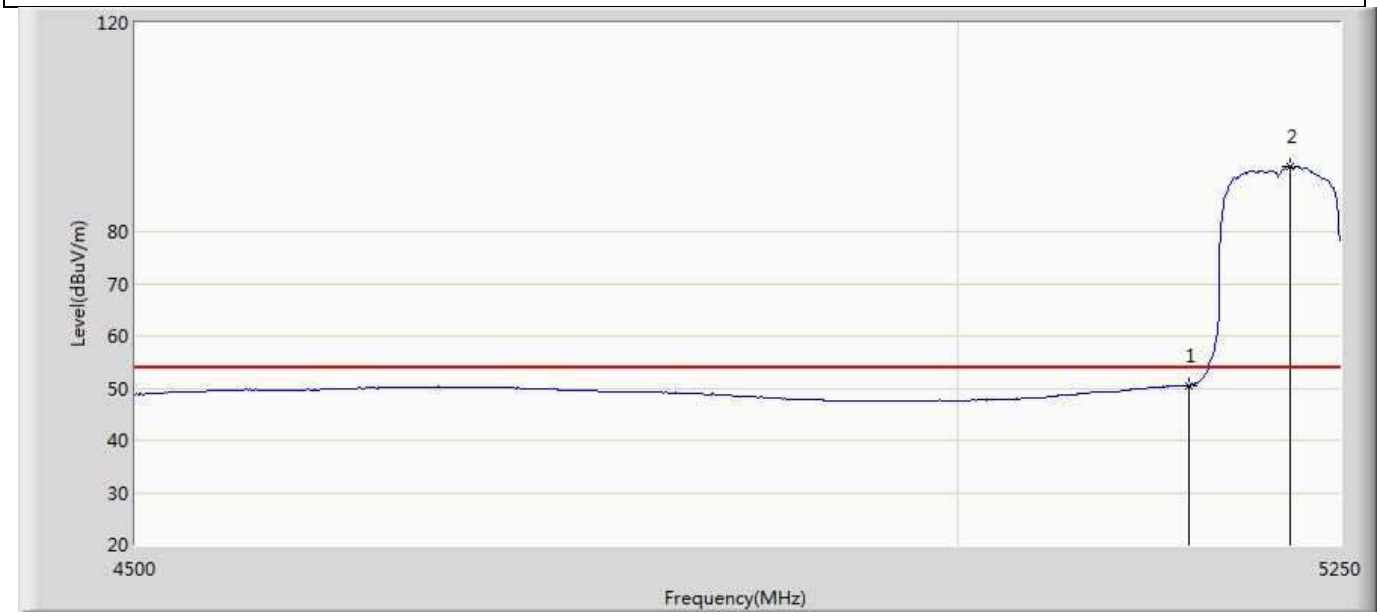
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4708.030	50.100	12.988	-3.900	54.000	37.112	AV
2		5150.000	49.701	12.602	-4.299	54.000	37.100	AV
3	*	5196.510	91.640	54.438	37.640	54.000	37.203	AV

Profile: 2090075R	Page No.: 21
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 18:52
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 6:Transmint at 5210MHz by 802.11ac(80MHz)	



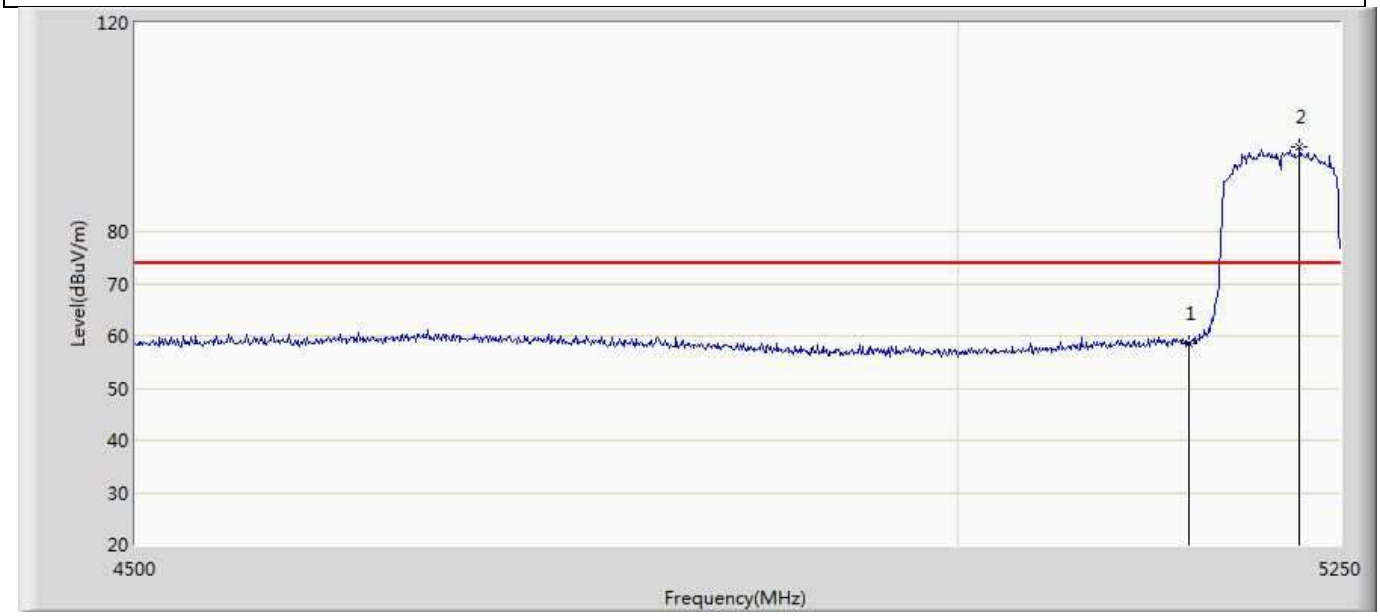
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	59.047	21.948	-14.953	74.000	37.100	PK
2	*	5197.500	99.103	61.898	25.103	74.000	37.204	PK

Profile: 2090075R	Page No.: 22
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 18:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 6:Transmint at 5210MHz by 802.11ac(80MHz)	



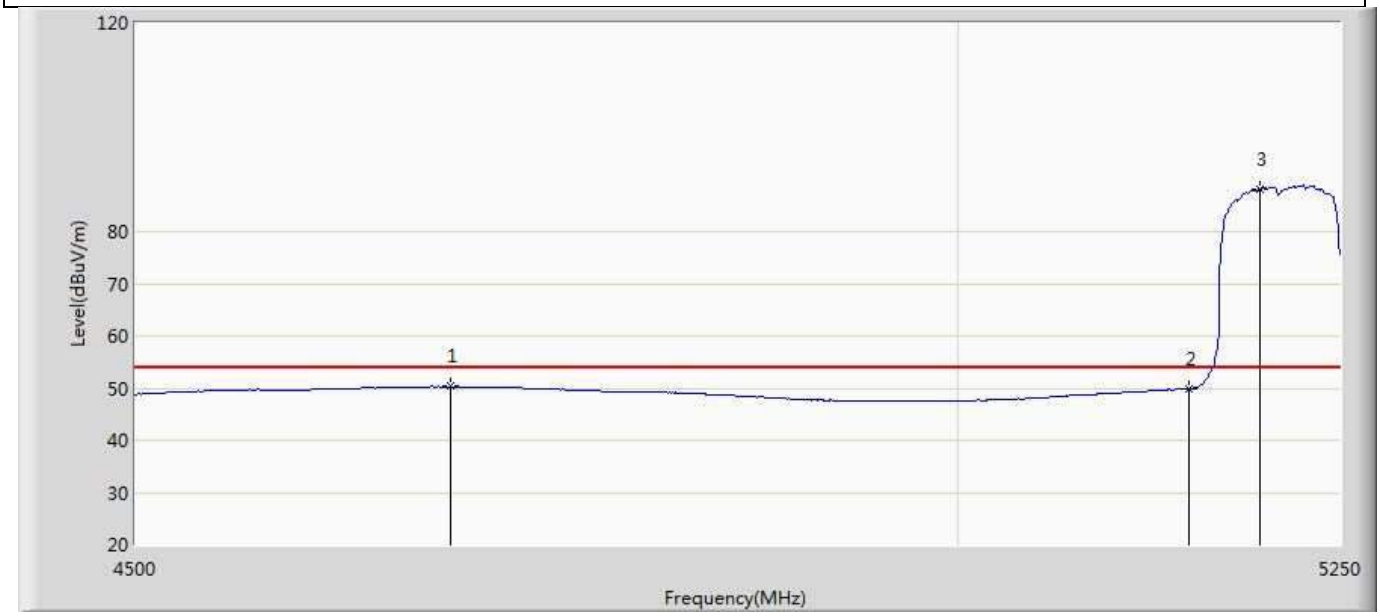
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	50.489	13.390	-3.511	54.000	37.100	AV
2	*	5217.000	92.480	55.234	38.480	54.000	37.247	AV

Profile: 2090075R	Page No.: 23
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 18:57
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 6:Transmint at 5210MHz by 802.11ac(80MHz)	



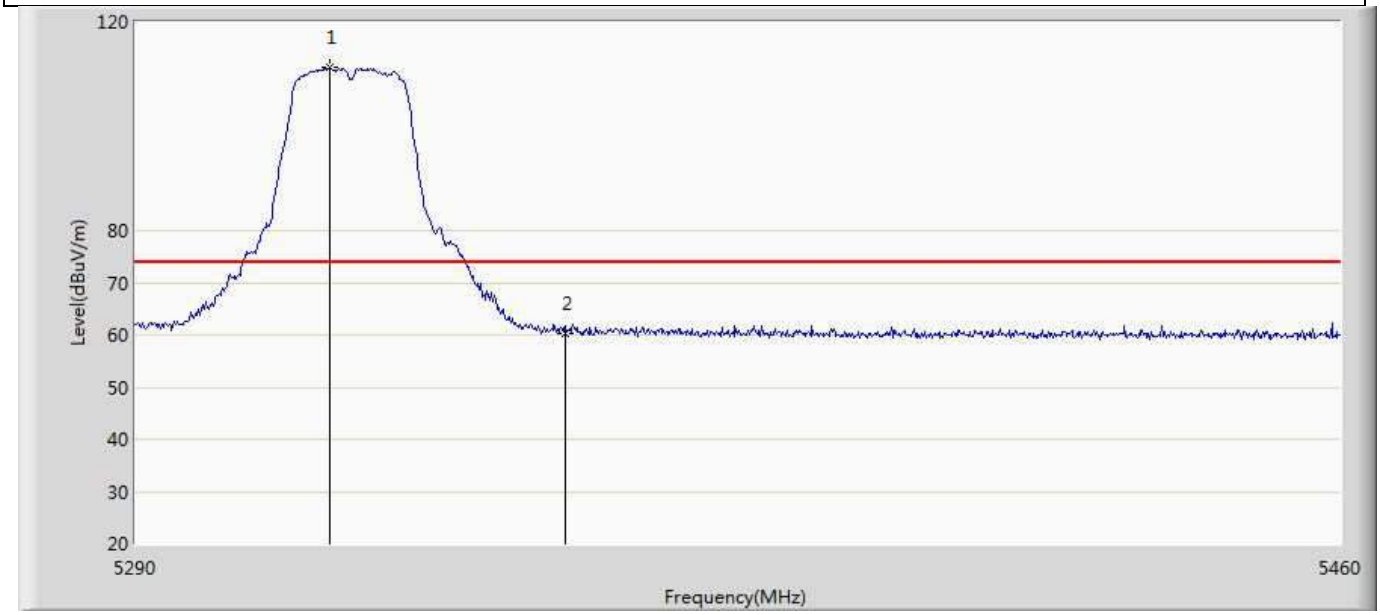
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	58.625	21.526	-15.375	74.000	37.100	PK
2	*	5223.000	96.247	58.992	22.247	74.000	37.255	PK

Profile: 2090075R	Page No.: 24
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 18:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 6:Transmint at 5210MHz by 802.11ac(80MHz)	



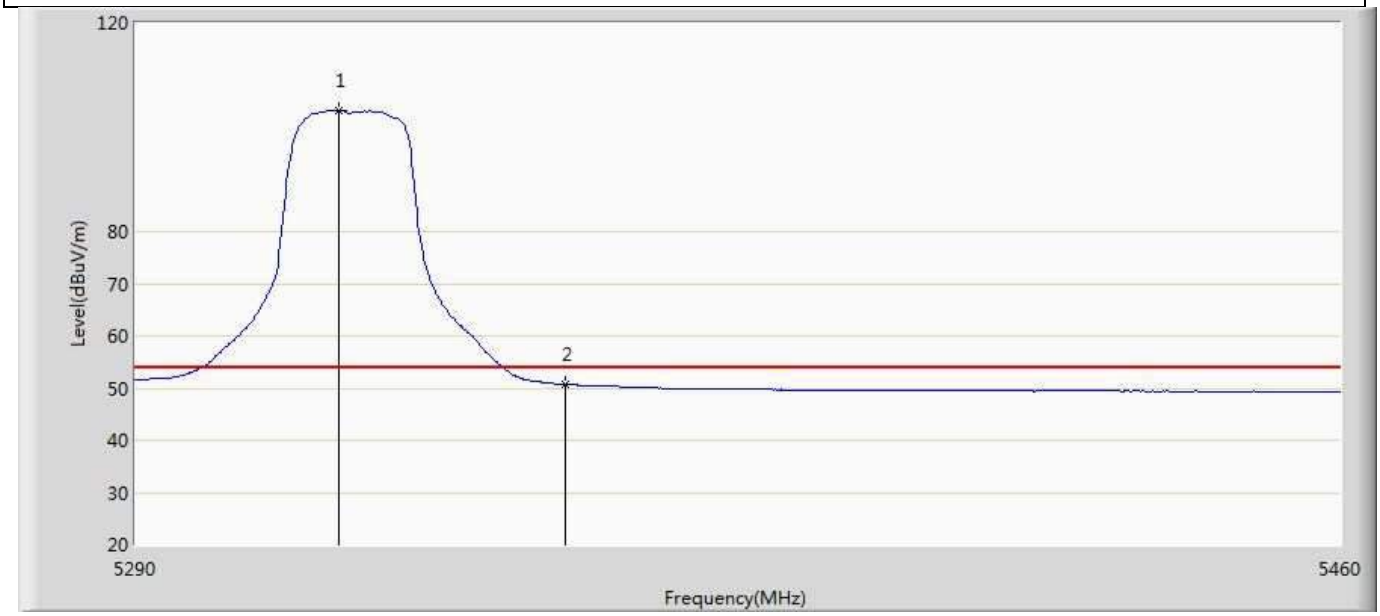
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4685.250	50.339	13.195	-3.661	54.000	37.144	AV
2		5150.000	49.903	12.804	-4.097	54.000	37.100	AV
3	*	5196.750	88.194	50.991	34.194	54.000	37.203	AV

Profile: 2090075R	Page No.: 1
Engineer: Yingfei.Wang	
Site: AC5	Time: 2019/07/18 - 20:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 1:Transmint at 5320MHz by 802.11a	



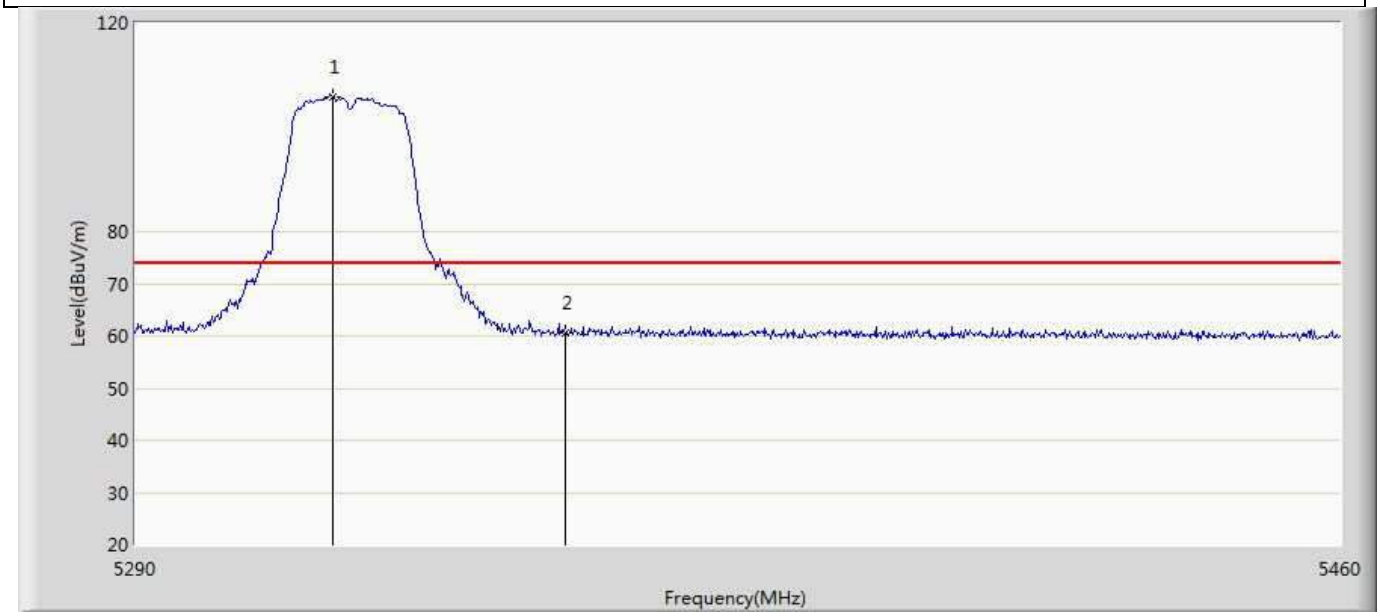
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5317.200	111.396	73.917	37.396	74.000	37.479	PK
2		5350.000	60.304	22.780	-13.696	74.000	37.523	PK

Profile: 2090075R	Page No.: 2
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/04/08 - 21:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 1:Transmint at 5320MHz by 802.11a	



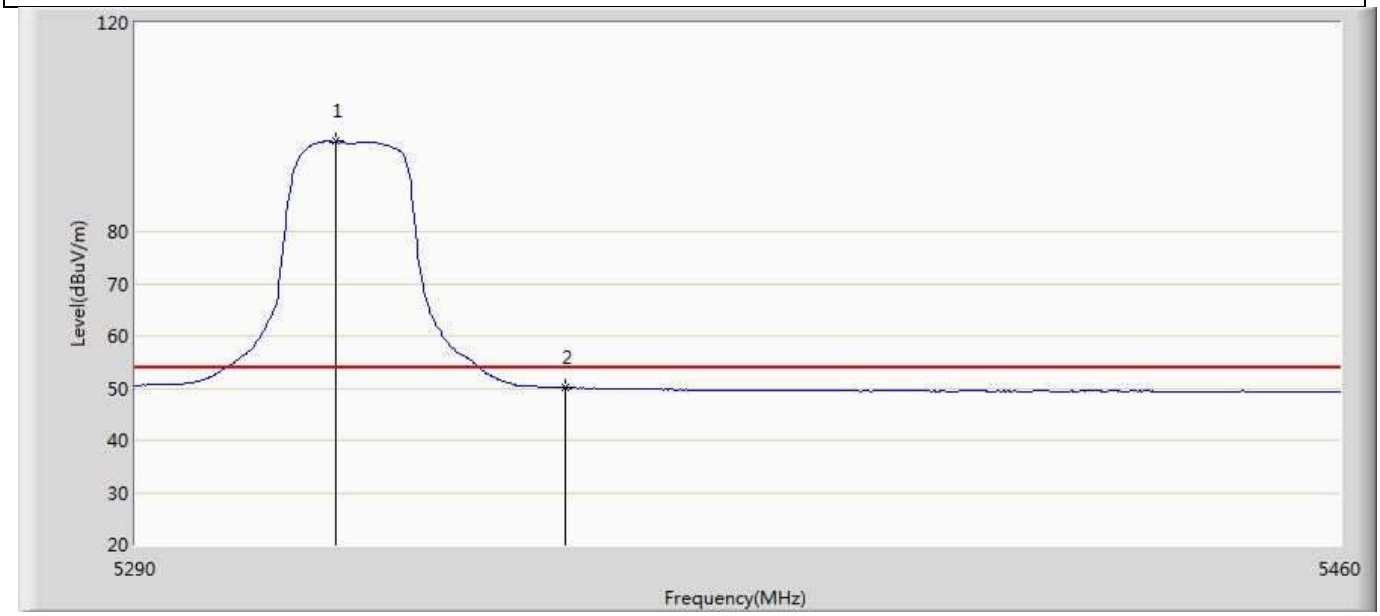
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5318.390	103.324	65.842	49.324	54.000	37.482	AV
2		5350.000	50.655	13.131	-3.345	54.000	37.523	AV

Profile: 2090075R	Page No.: 3
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/04/08 - 21:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 1:Transmint at 5320MHz by 802.11a	



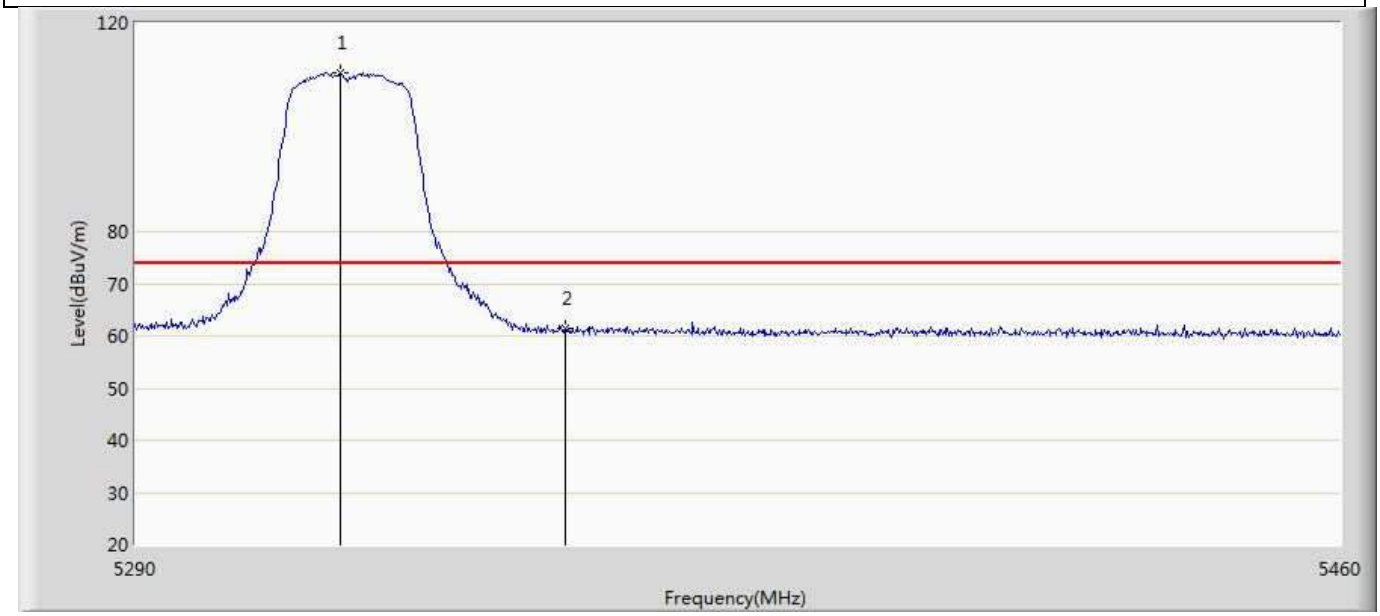
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5317.540	105.912	68.432	31.912	74.000	37.480	PK
2		5350.000	60.526	23.002	-13.474	74.000	37.523	PK

Profile: 2090075R	Page No.: 4
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/04/08 - 21:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 1:Transmint at 5320MHz by 802.11a	



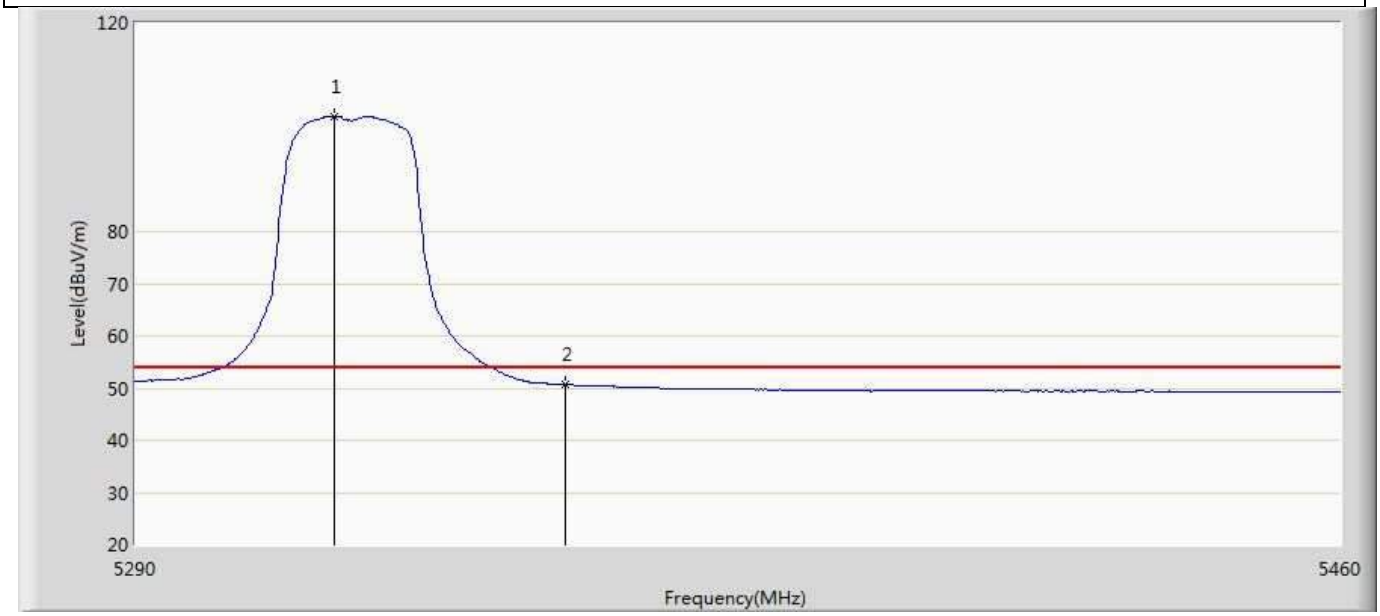
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5318.050	97.254	59.772	43.254	54.000	37.482	AV
2		5350.000	50.104	12.580	-3.896	54.000	37.523	AV

Profile: 2090075R	Page No.: 5
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 15:18
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 2:Transmint at 5320MHz by 802.11n(20MHz)	



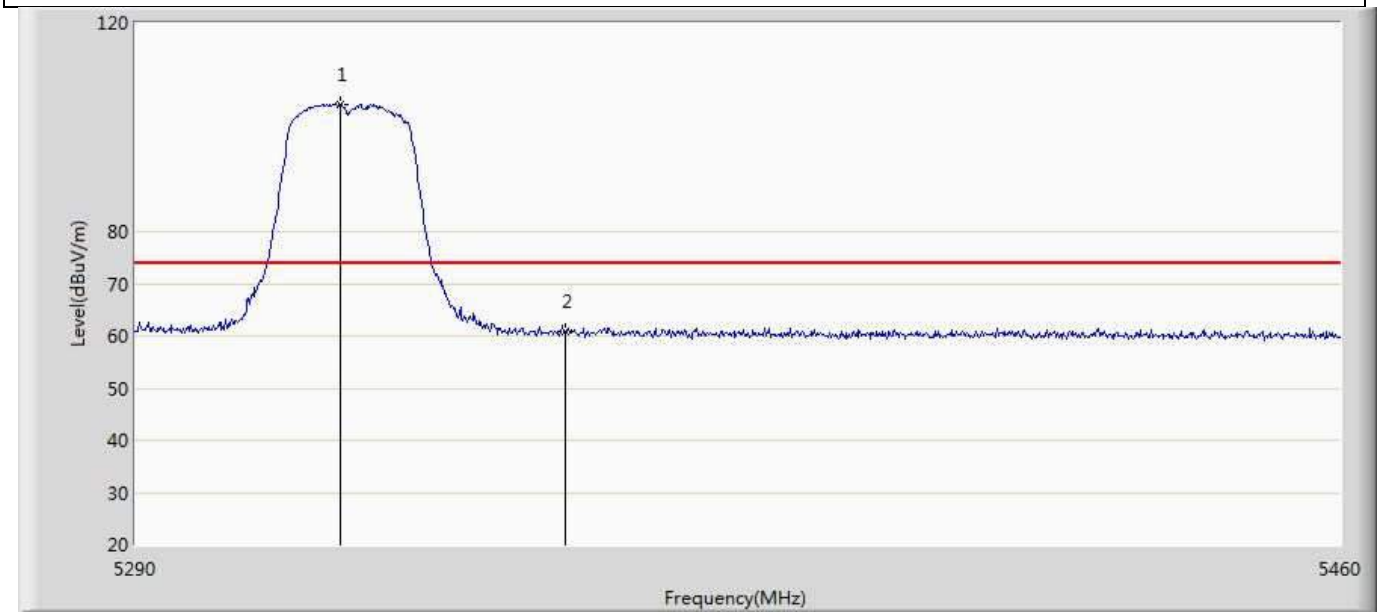
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5318.560	110.295	72.813	36.295	74.000	37.482	PK
2		5350.000	61.373	23.849	-12.627	74.000	37.523	PK

Profile: 2090075R	Page No.: 6
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 15:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 2:Transmint at 5320MHz by 802.11n(20MHz)	



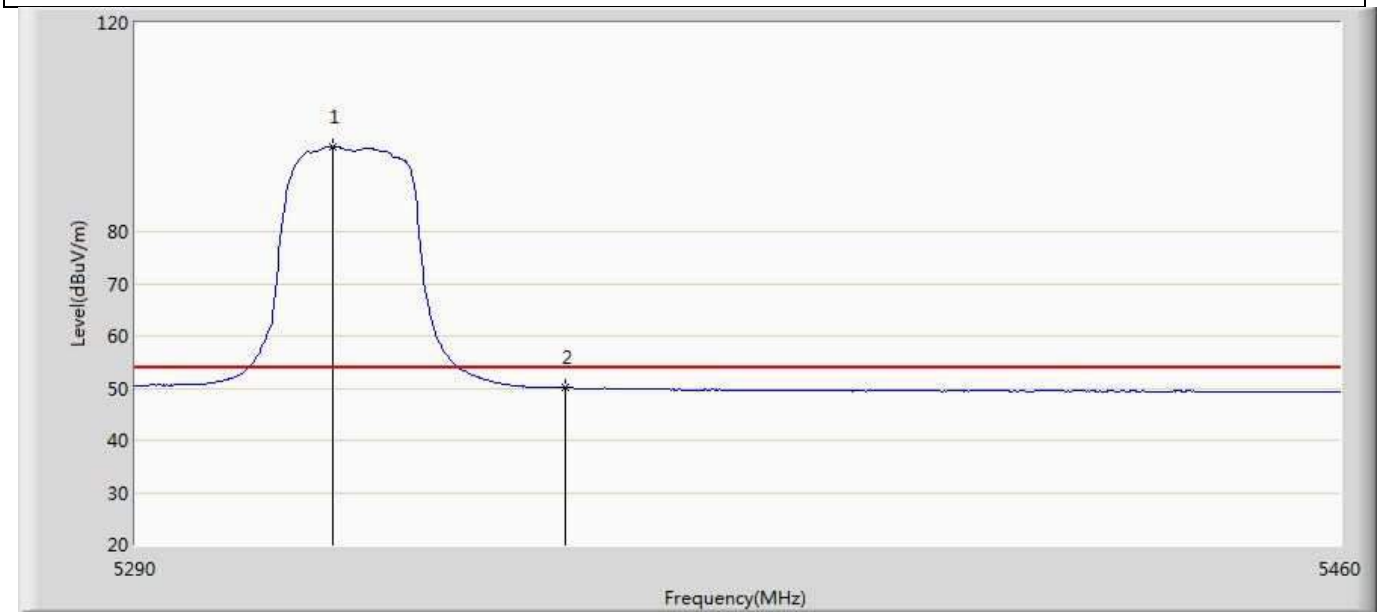
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5317.710	102.167	64.686	48.167	54.000	37.480	AV
2		5350.000	50.678	13.154	-3.322	54.000	37.523	AV

Profile: 2090075R	Page No.: 7
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 15:22
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 2:Transmint at 5320MHz by 802.11n(20MHz)	



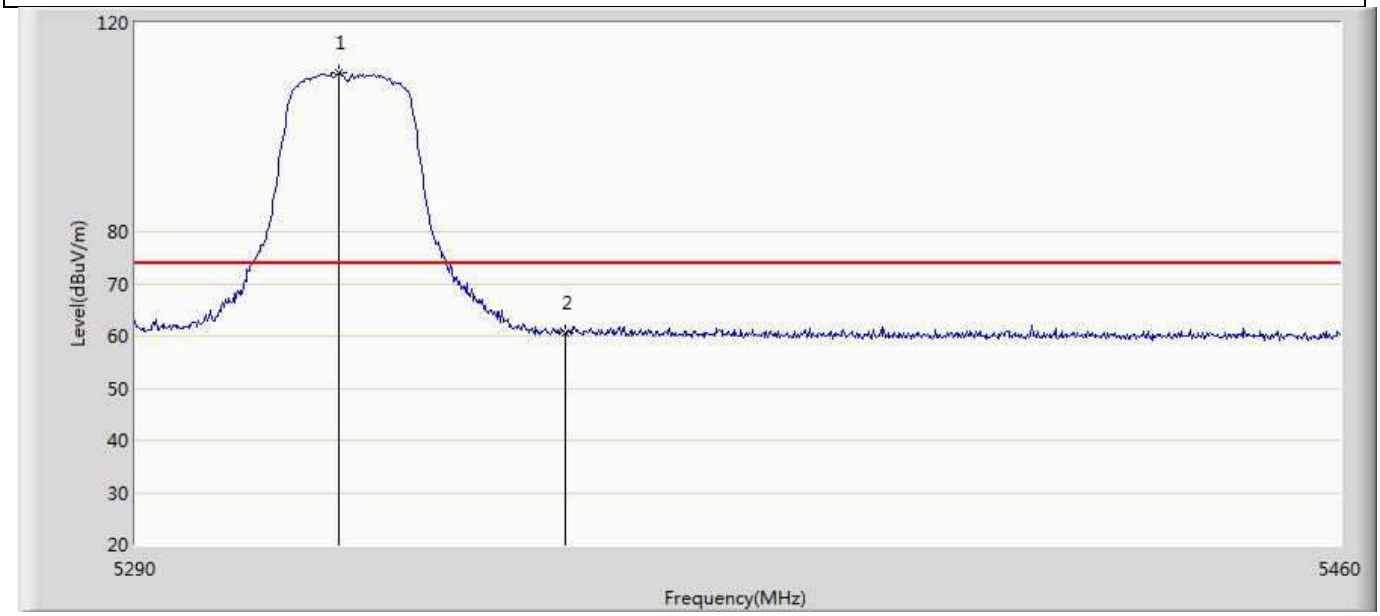
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5318.560	104.366	66.884	30.366	74.000	37.482	PK
2		5350.000	60.753	23.229	-13.247	74.000	37.523	PK

Profile: 2090075R	Page No.: 8
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 15:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 2:Transmint at 5320MHz by 802.11n(20MHz)	



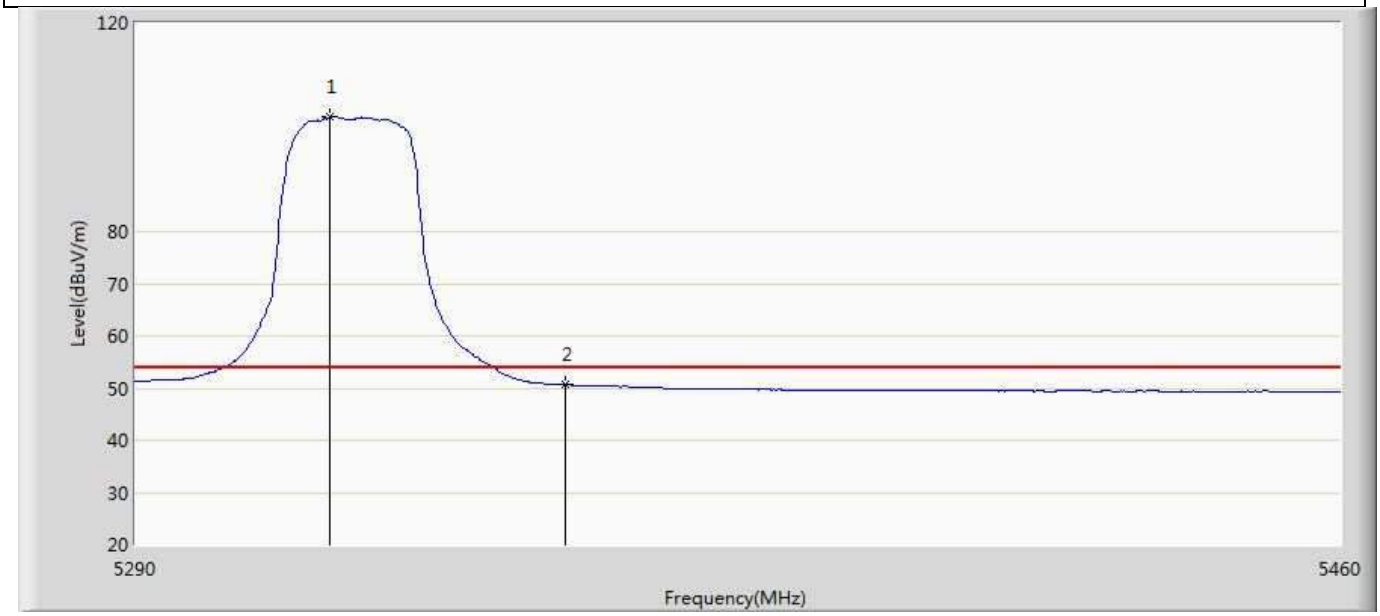
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5317.540	96.270	58.790	42.270	54.000	37.480	AV
2		5350.000	50.057	12.533	-3.943	54.000	37.523	AV

Profile: 2090075R	Page No.: 9
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 15:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 4:Transmint at 5320MHz by 802.11ac(20MHz)	



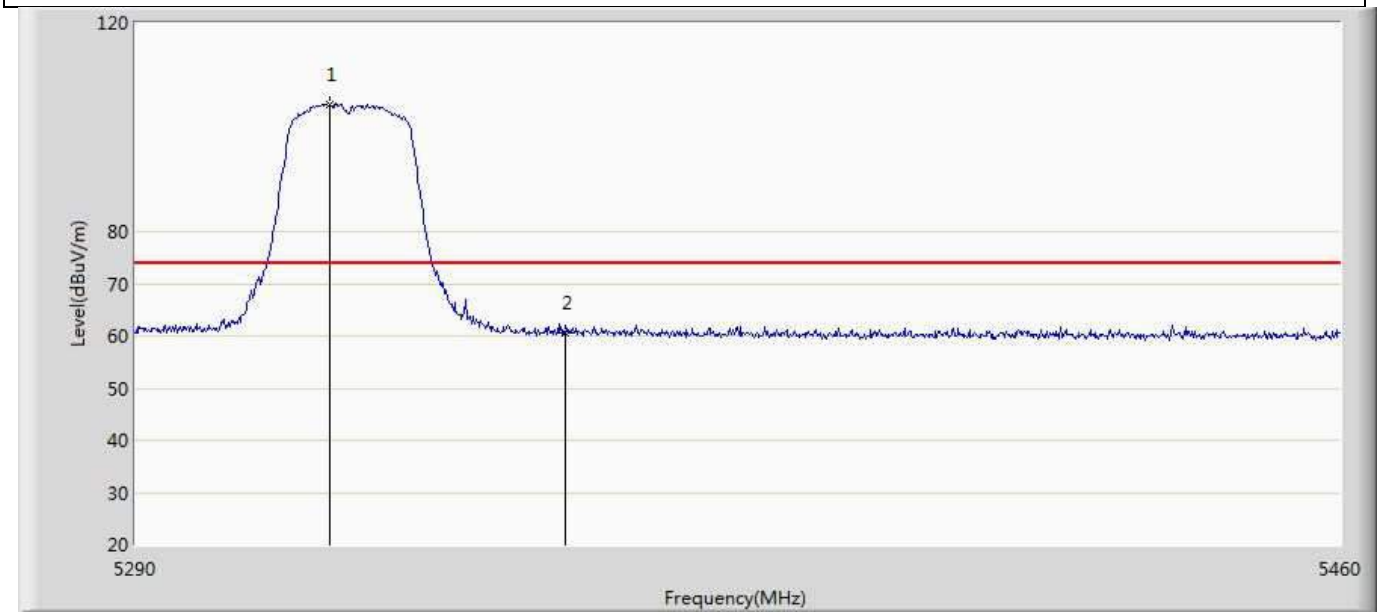
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5318.390	110.299	72.817	36.299	74.000	37.482	PK
2		5350.000	60.679	23.155	-13.321	74.000	37.523	PK

Profile: 2090075R	Page No.: 10
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 15:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 4:Transmint at 5320MHz by 802.11ac(20MHz)	



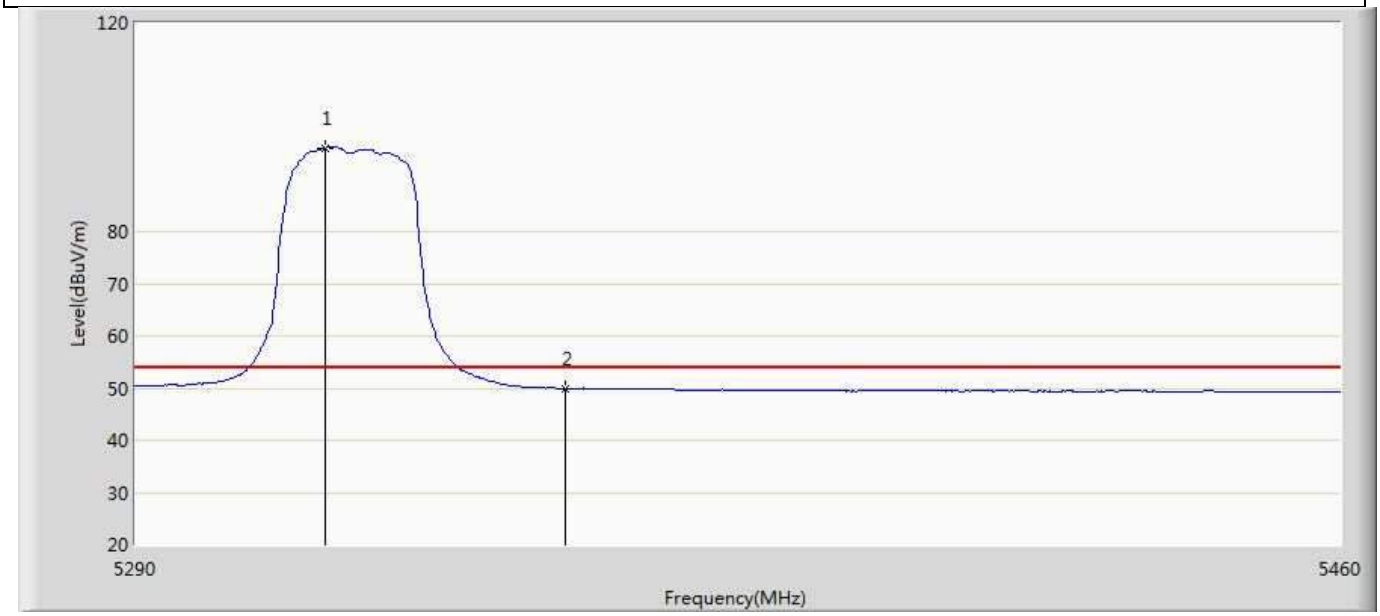
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5317.030	101.891	64.413	47.891	54.000	37.478	AV
2		5350.000	50.653	13.129	-3.347	54.000	37.523	AV

Profile: 2090075R	Page No.: 11
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 15:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 4:Transmint at 5320MHz by 802.11ac(20MHz)	



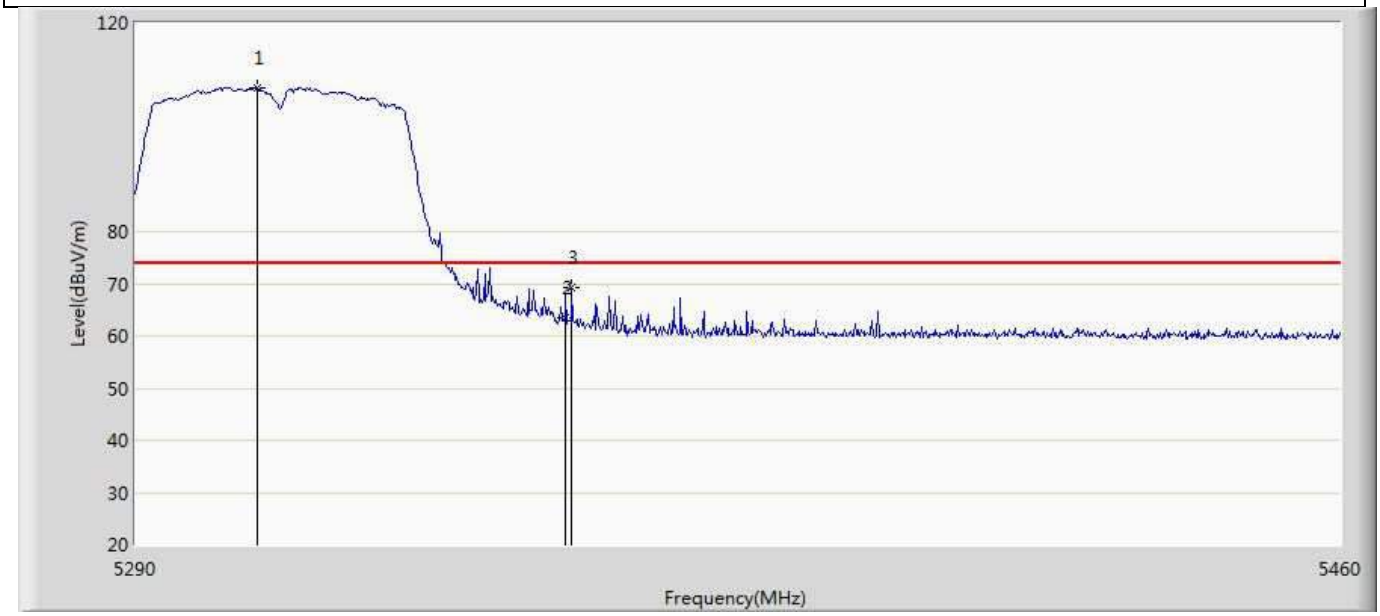
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5317.030	104.301	66.823	30.301	74.000	37.478	PK
2		5350.000	60.621	23.097	-13.379	74.000	37.523	PK

Profile: 2090075R	Page No.: 12
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 15:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 4:Transmint at 5320MHz by 802.11ac(20MHz)	



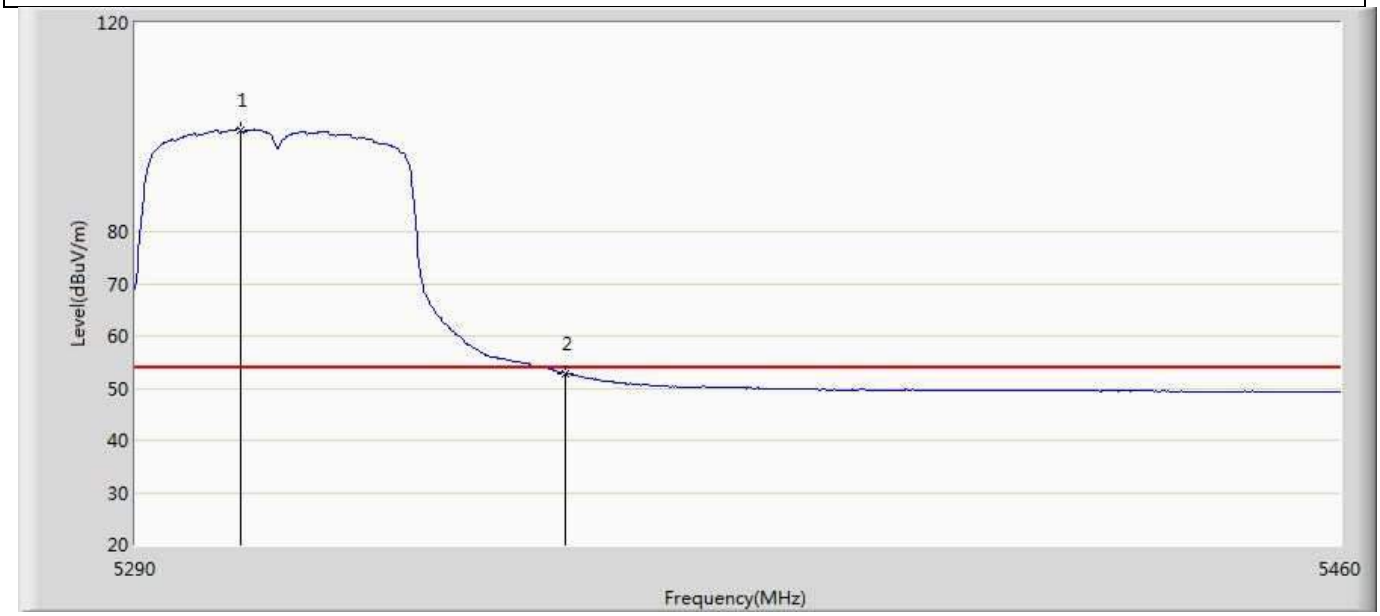
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5316.520	96.046	58.570	42.046	54.000	37.476	AV
2		5350.000	49.906	12.382	-4.094	54.000	37.523	AV

Profile: 2090075R	Page No.: 13
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 15:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 3:Transmint at 5310MHz by 802.11n(40MHz)	



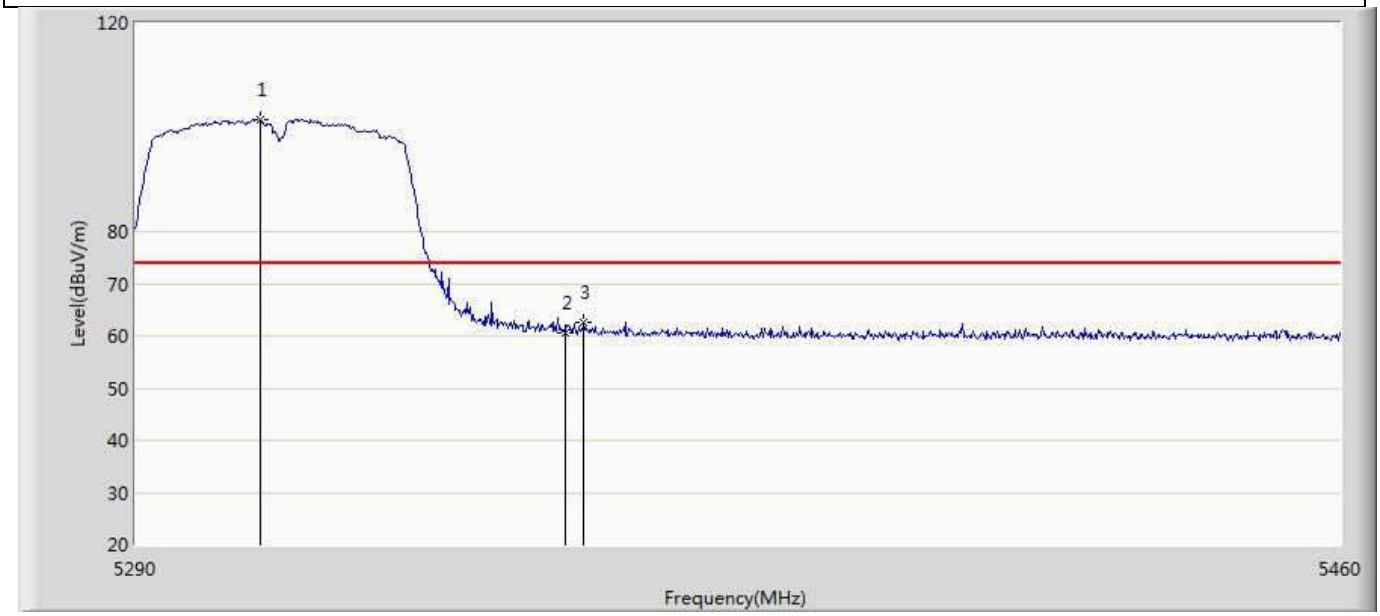
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5307.000	107.563	70.122	33.563	74.000	37.441	PK
2		5350.000	63.522	25.998	-10.478	74.000	37.523	PK
3		5351.030	69.254	31.728	-4.746	74.000	37.526	PK

Profile: 2090075R	Page No.: 14
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 15:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 3:Transmint at 5310MHz by 802.11n(40MHz)	



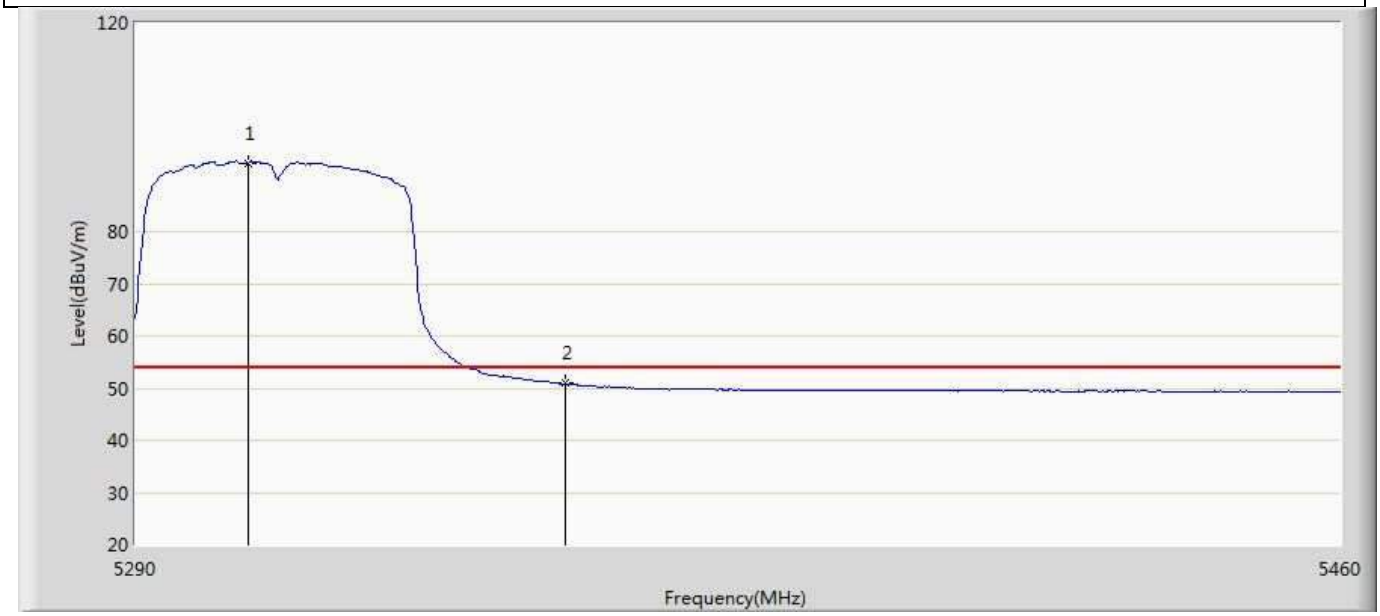
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5304.620	99.552	62.120	45.552	54.000	37.431	AV
2		5350.000	52.878	15.354	-1.122	54.000	37.523	AV

Profile: 2090075R	Page No.: 15
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 15:42
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 3:Transmint at 5310MHz by 802.11n(40MHz)	



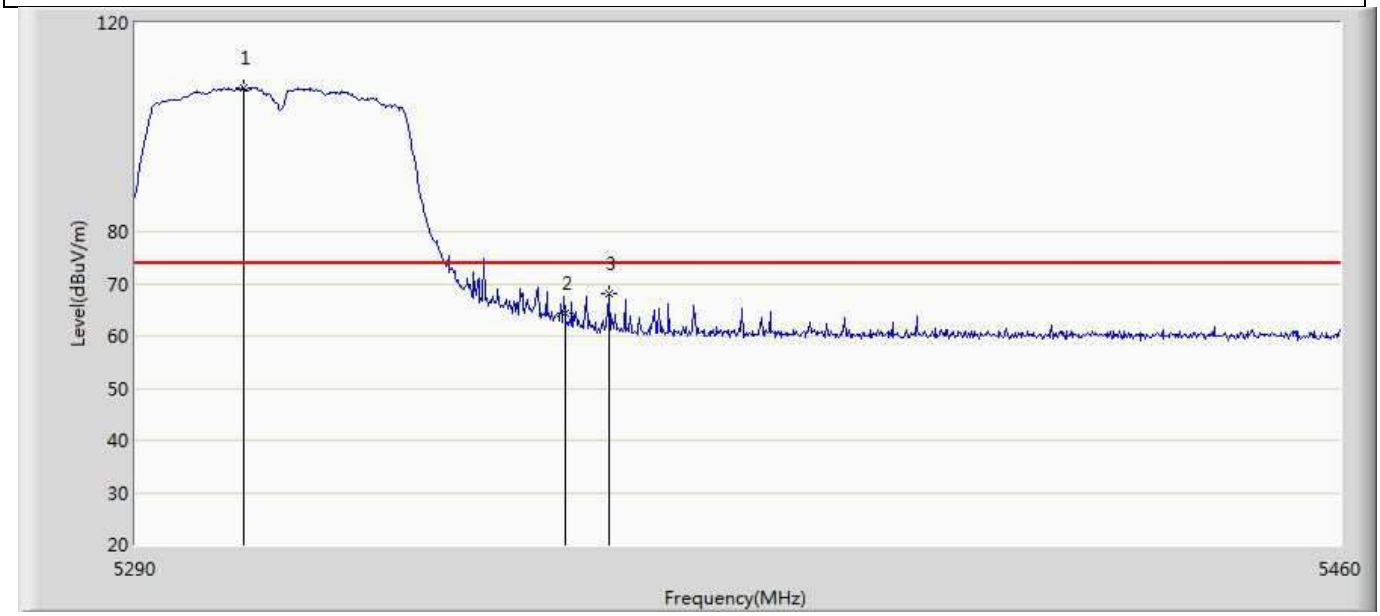
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5307.510	101.359	63.916	27.359	74.000	37.442	PK
2		5350.000	60.544	23.020	-13.456	74.000	37.523	PK
3		5352.730	62.702	25.173	-11.298	74.000	37.529	PK

Profile: 2090075R	Page No.: 16
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 15:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 3:Transmint at 5310MHz by 802.11n(40MHz)	



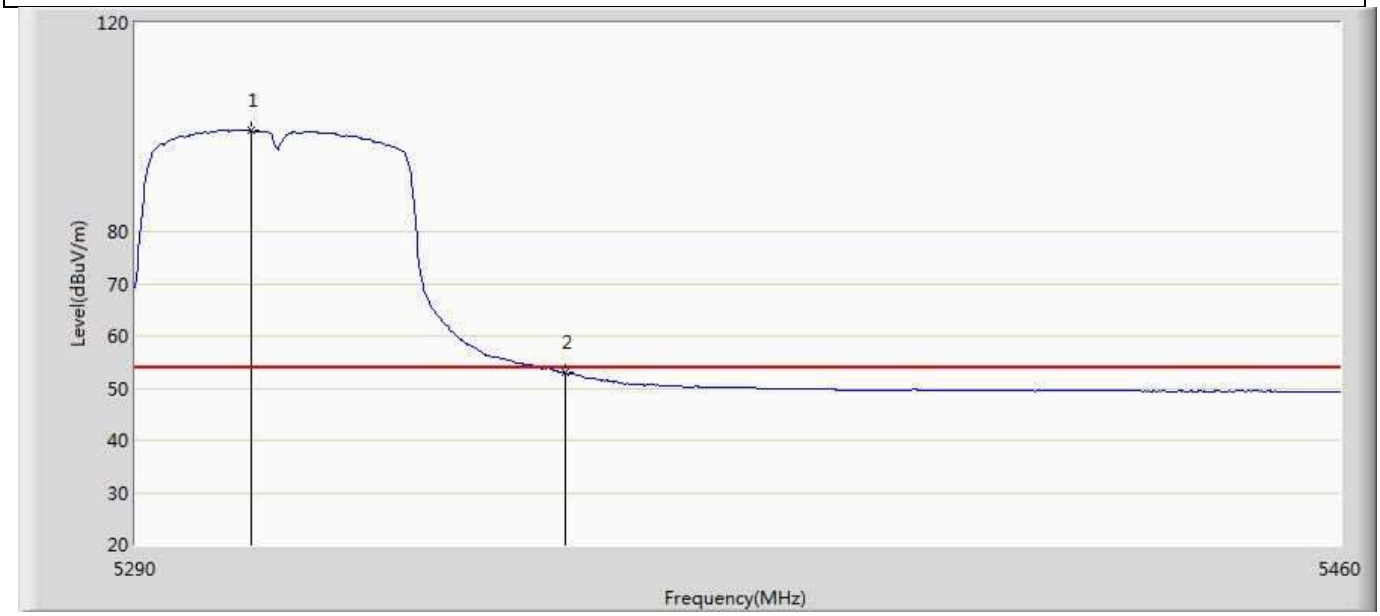
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5305.810	93.174	55.738	39.174	54.000	37.436	AV
2		5350.000	50.870	13.346	-3.130	54.000	37.523	AV

Profile: 2090075R	Page No.: 17
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 15:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 5:Transmint at 5310MHz by 802.11ac(40MHz)	



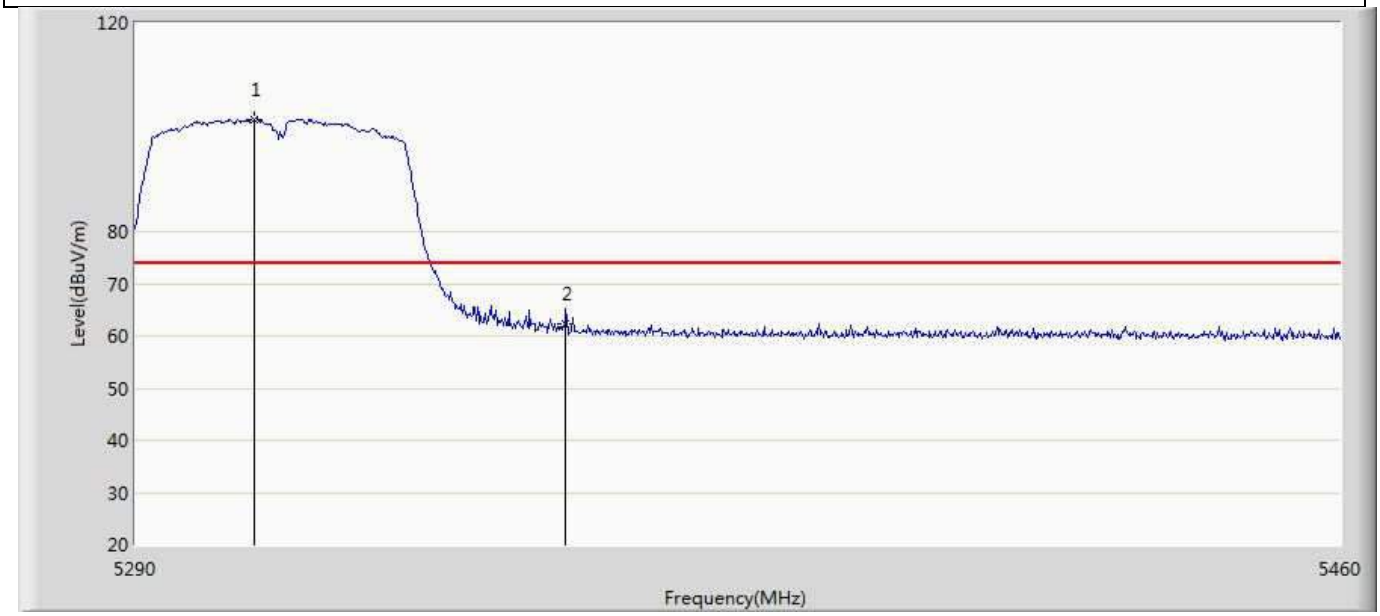
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5305.130	107.612	70.178	33.612	74.000	37.433	PK
2		5350.000	64.409	26.885	-9.591	74.000	37.523	PK
3		5356.300	68.080	30.544	-5.920	74.000	37.537	PK

Profile: 2090075R	Page No.: 18
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 15:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 5:Transmint at 5310MHz by 802.11ac(40MHz)	



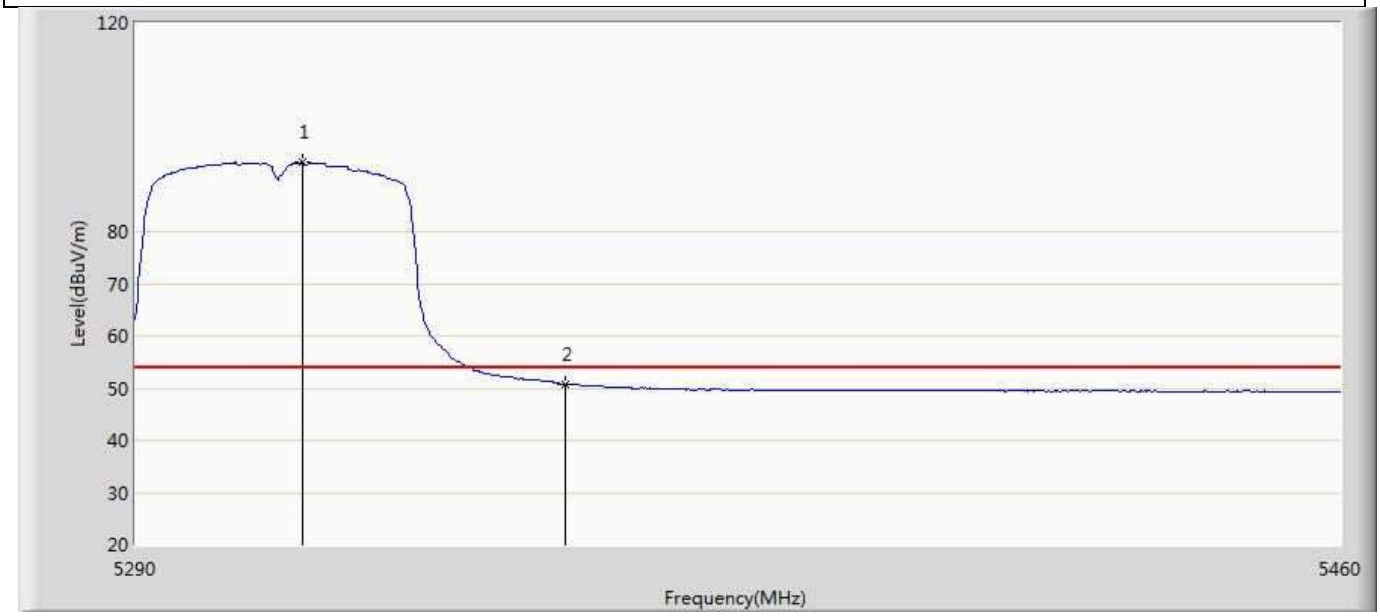
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5306.150	99.486	62.049	45.486	54.000	37.437	AV
2		5350.000	52.925	15.401	-1.075	54.000	37.523	AV

Profile: 2090075R	Page No.: 19
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 15:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 5:Transmint at 5310MHz by 802.11ac(40MHz)	



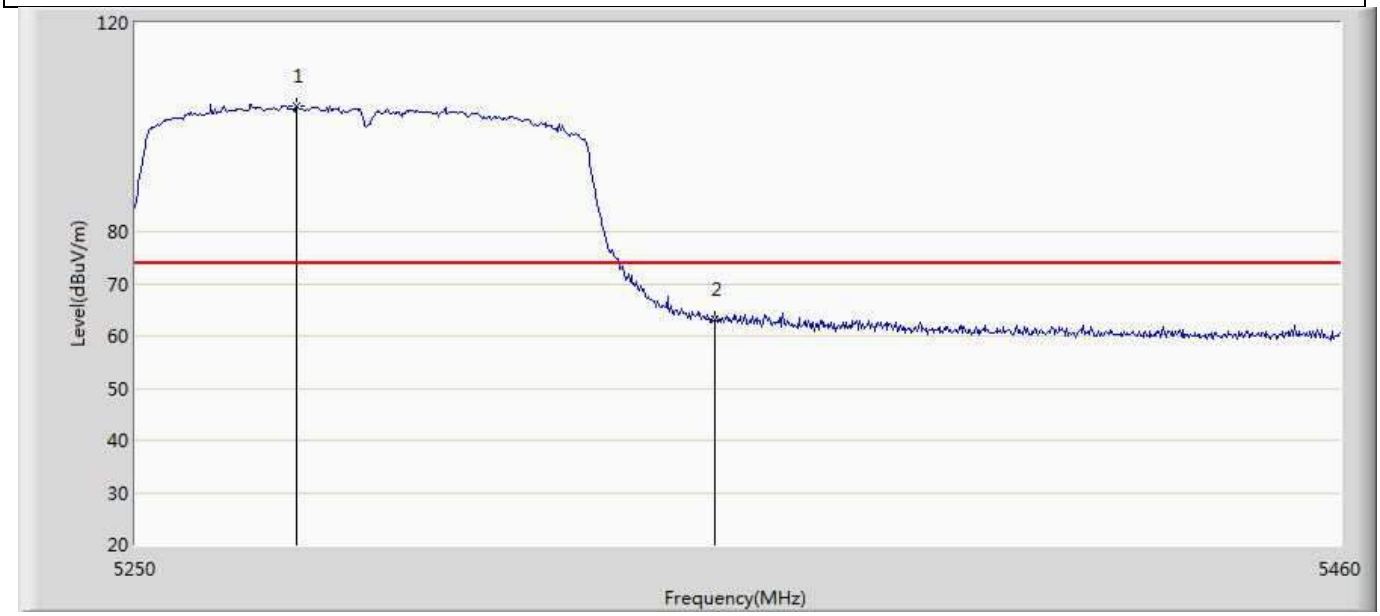
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5306.490	101.535	64.096	27.535	74.000	37.439	PK
2		5350.000	62.387	24.863	-11.613	74.000	37.523	PK

Profile: 2090075R	Page No.: 20
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 15:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 5:Transmint at 5310MHz by 802.11ac(40MHz)	



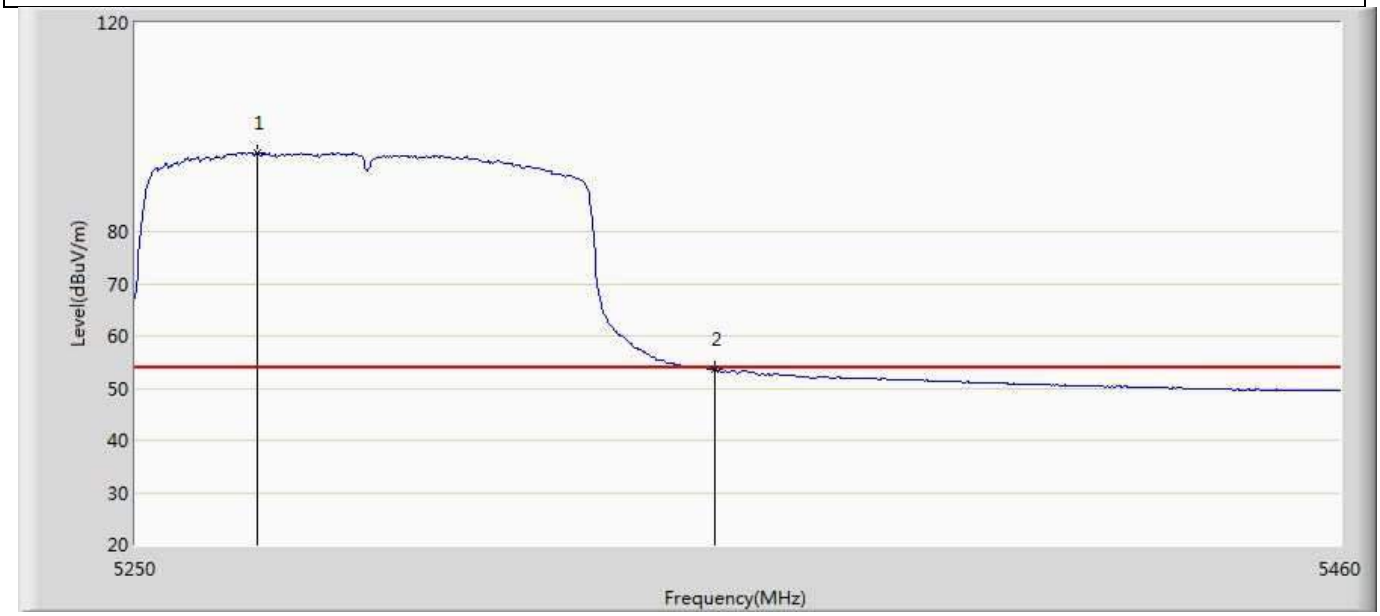
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5313.290	93.224	55.760	39.224	54.000	37.465	AV
2		5350.000	50.814	13.290	-3.186	54.000	37.523	AV

Profile: 2090075R	Page No.: 21
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 15:51
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 6:Transmint at 5290MHz by 802.11ac 80	



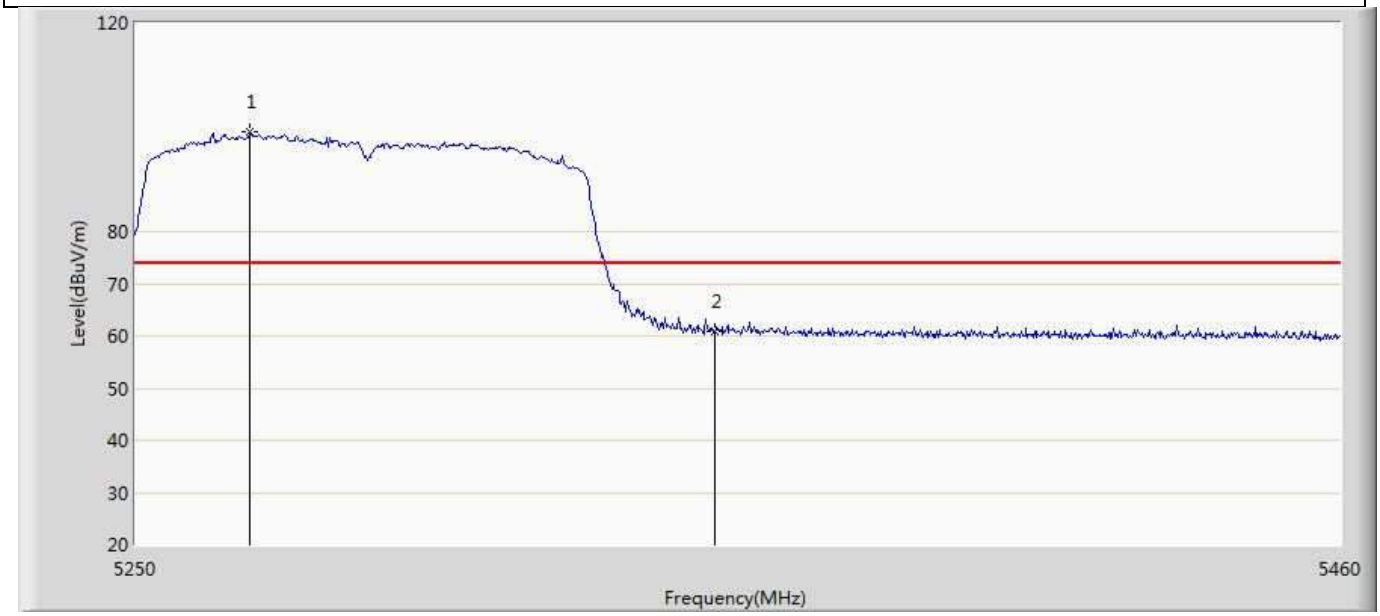
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5277.720	104.187	66.821	30.187	74.000	37.366	PK
2		5350.000	63.160	25.636	-10.840	74.000	37.523	PK

Profile: 2090075R	Page No.: 22
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 15:53
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 6:Transmint at 5290MHz by 802.11ac 80	



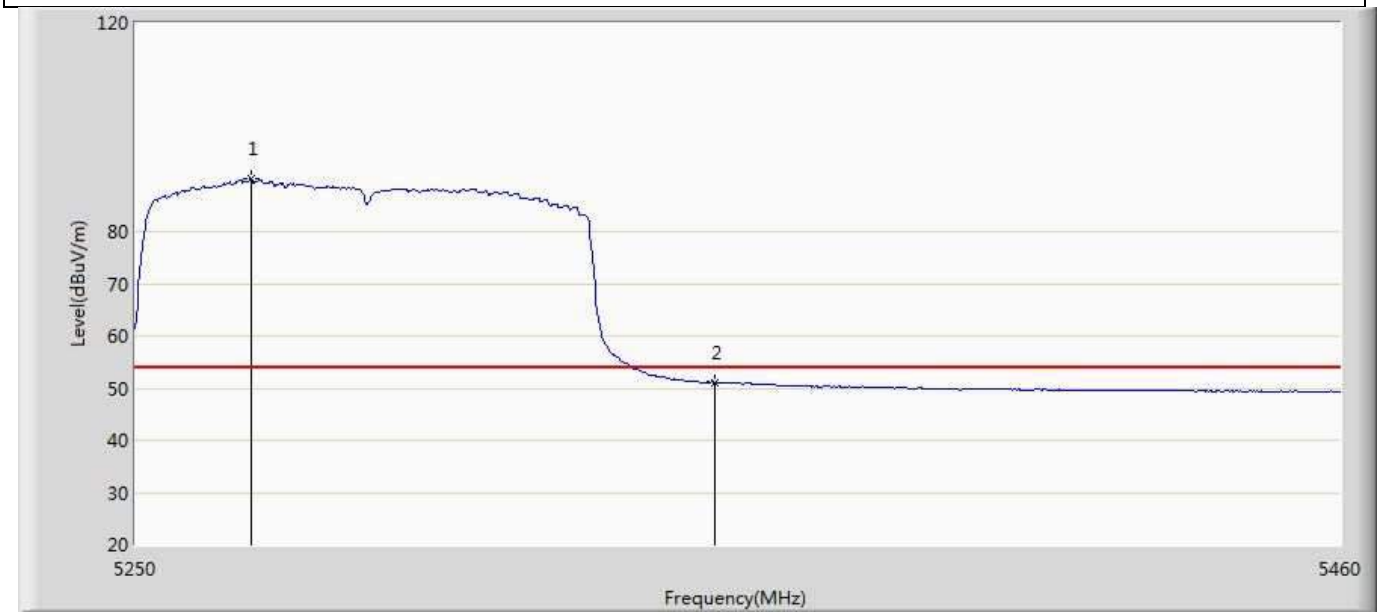
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5271.000	95.018	57.668	41.018	54.000	37.350	AV
2		5350.000	53.600	16.076	-0.400	54.000	37.523	AV

Profile: 2090075R	Page No.: 23
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 15:54
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 6:Transmint at 5290MHz by 802.11ac 80	



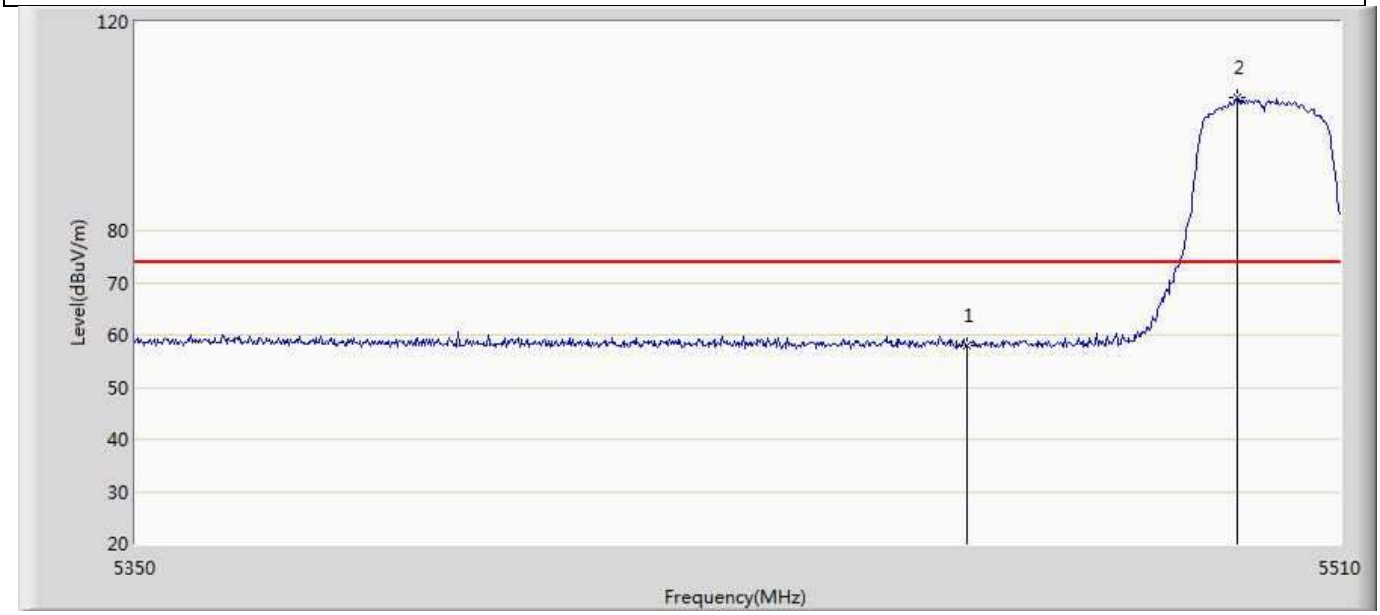
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5269.740	99.053	61.706	25.053	74.000	37.347	PK
2		5350.000	60.803	23.279	-13.197	74.000	37.523	PK

Profile: 2090075R	Page No.: 24
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 15:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 6:Transmint at 5290MHz by 802.11ac 80	



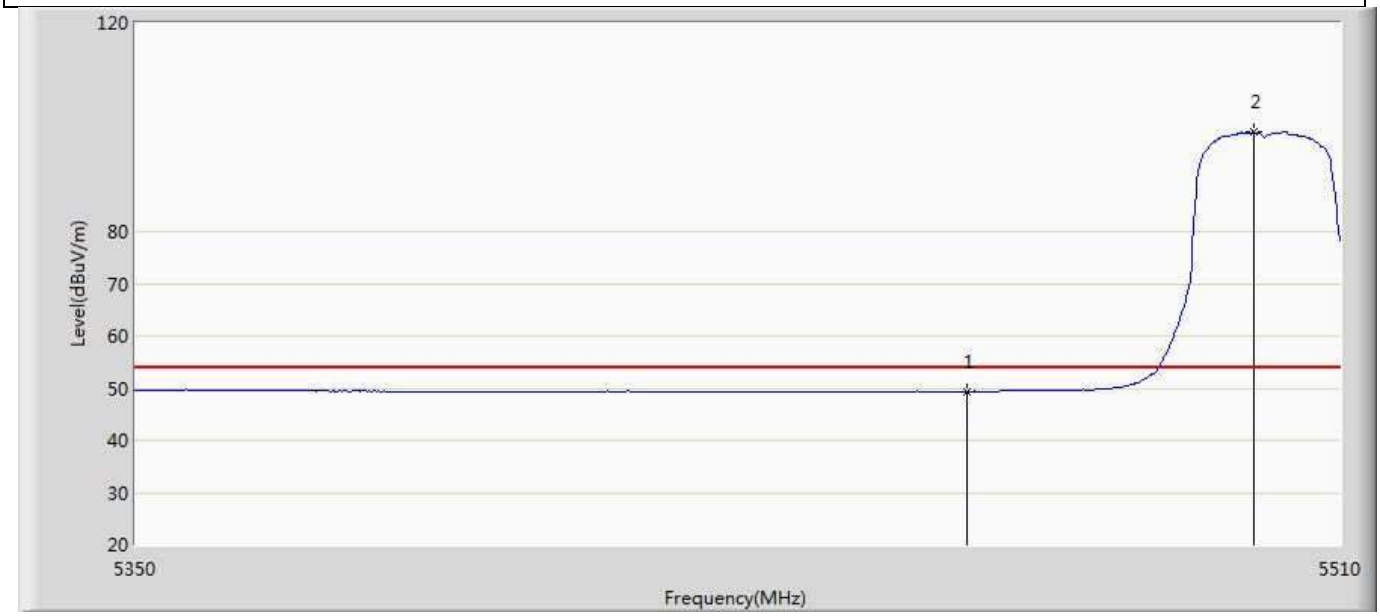
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5269.950	90.045	52.697	36.045	54.000	37.348	AV
2		5350.000	51.128	13.604	-2.872	54.000	37.523	AV

Profile: 2090075R	Page No.: 1
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 20:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 1:Transmint at 5500MHz by 802.11a	



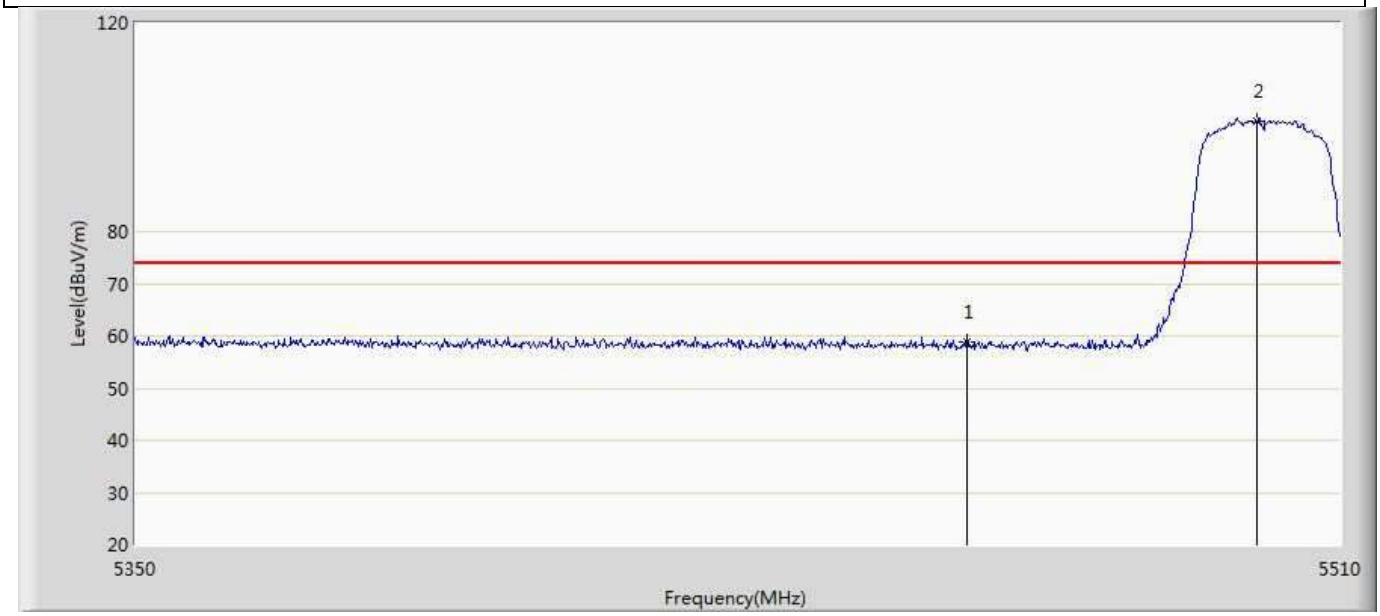
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	58.045	20.301	-15.955	74.000	37.744	PK
2	*	5496.240	105.393	67.567	31.393	74.000	37.826	PK

Profile: 2090075R	Page No.: 2
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 19:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 1:Transmint at 5500MHz by 802.11a	



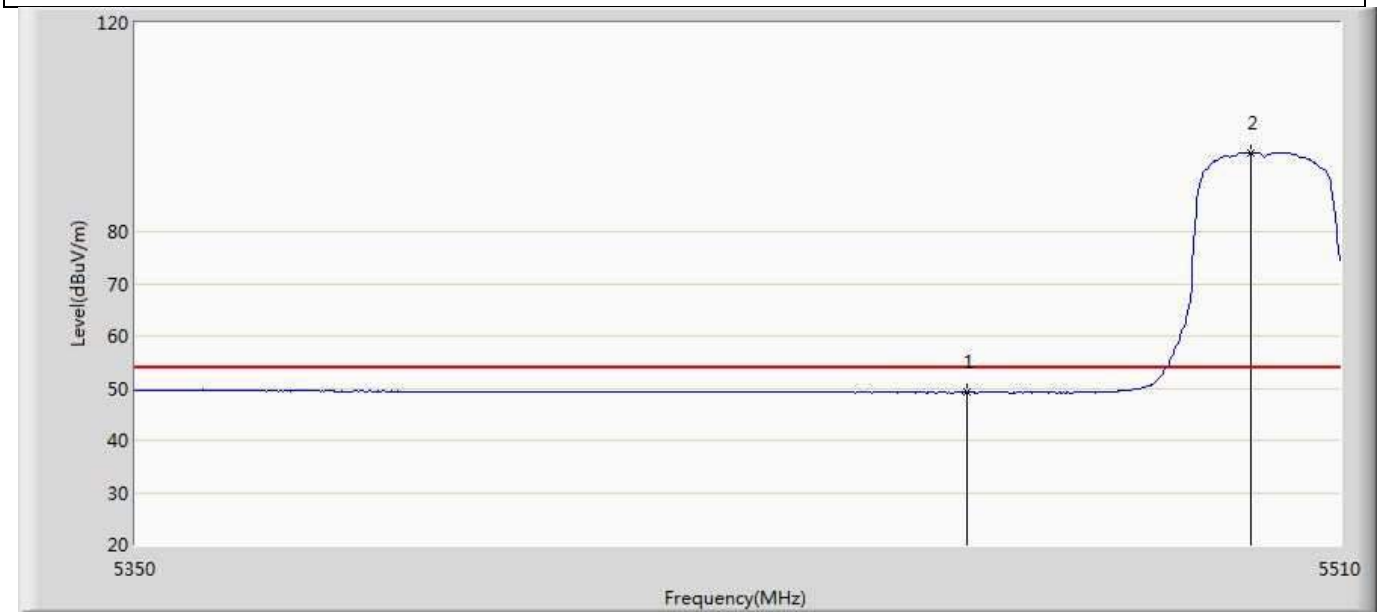
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	49.411	11.667	-4.589	54.000	37.744	AV
2	*	5498.320	99.047	61.218	45.047	54.000	37.829	AV

Profile: 2090075R	Page No.: 3
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 19:10
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 1:Transmint at 5500MHz by 802.11a	



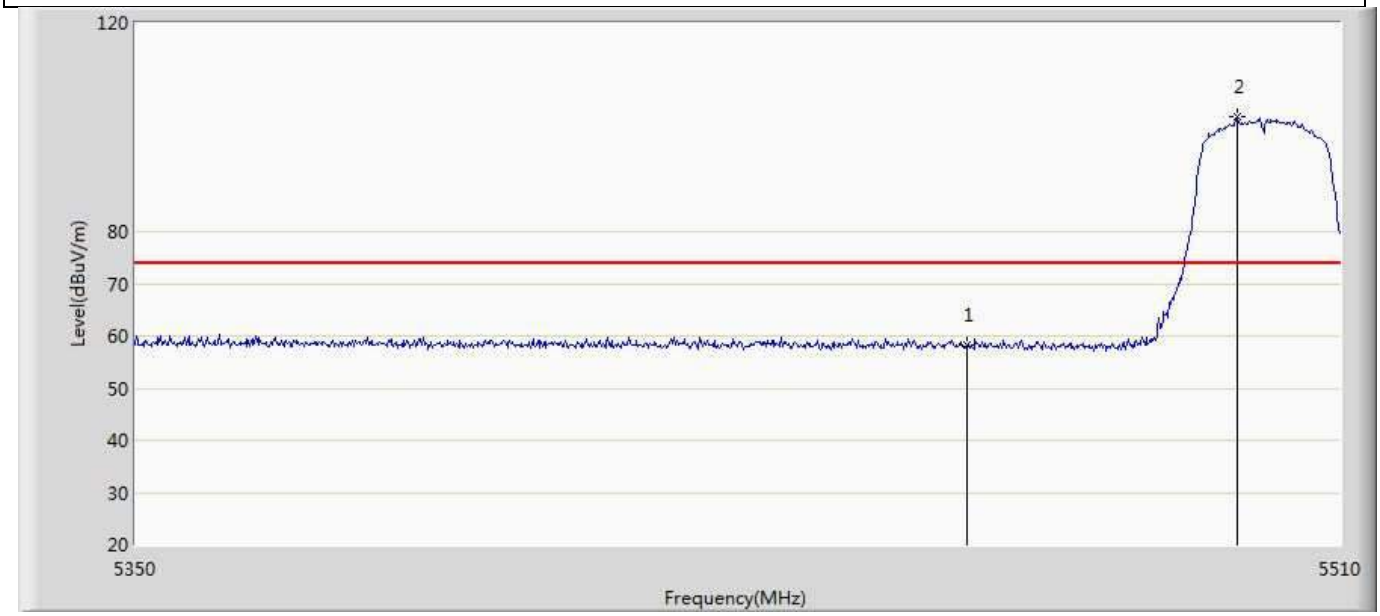
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	58.929	21.185	-15.071	74.000	37.744	PK
2	*	5498.800	101.095	63.265	27.095	74.000	37.829	PK

Profile: 2090075R	Page No.: 4
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 19:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 1:Transmint at 5500MHz by 802.11a	



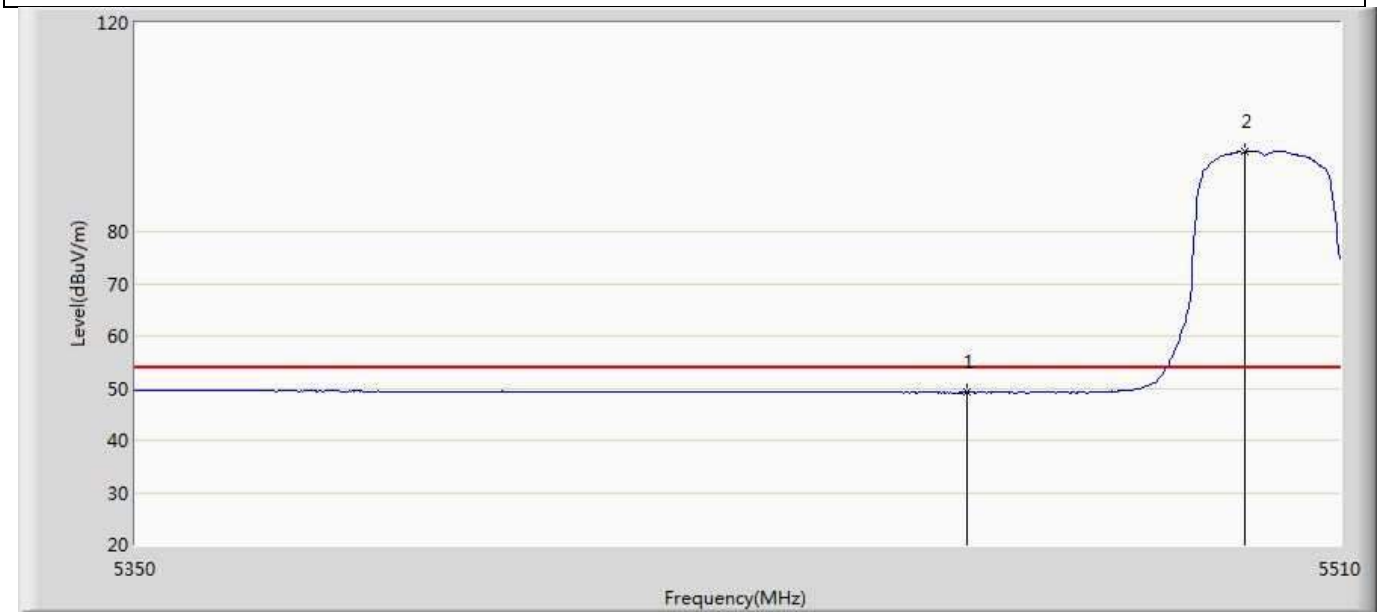
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	49.159	11.415	-4.841	54.000	37.744	AV
2	*	5498.000	95.199	57.371	41.199	54.000	37.828	AV

Profile: 2090075R	Page No.: 5
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 19:12
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 2:Transmint at 5500MHz by 802.11n(20MHz)	



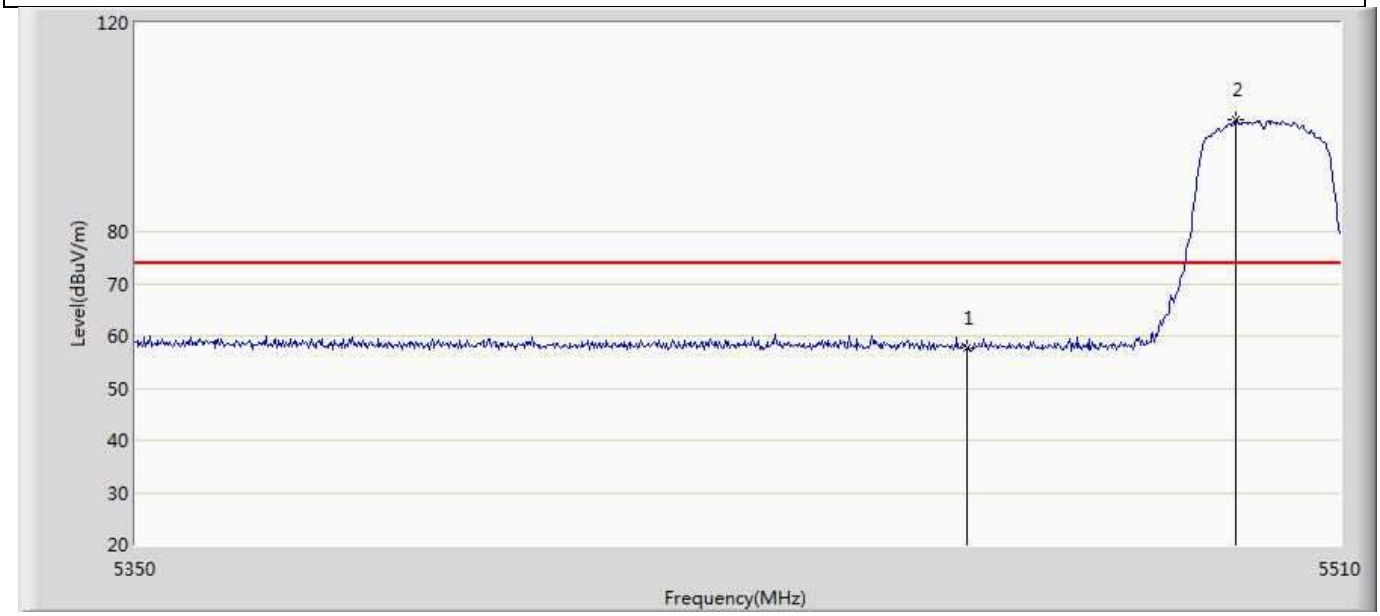
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	58.124	20.380	-15.876	74.000	37.744	PK
2	*	5496.080	101.999	64.174	27.999	74.000	37.826	PK

Profile: 2090075R	Page No.: 6
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 19:13
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 2:Transmint at 5500MHz by 802.11n(20MHz)	



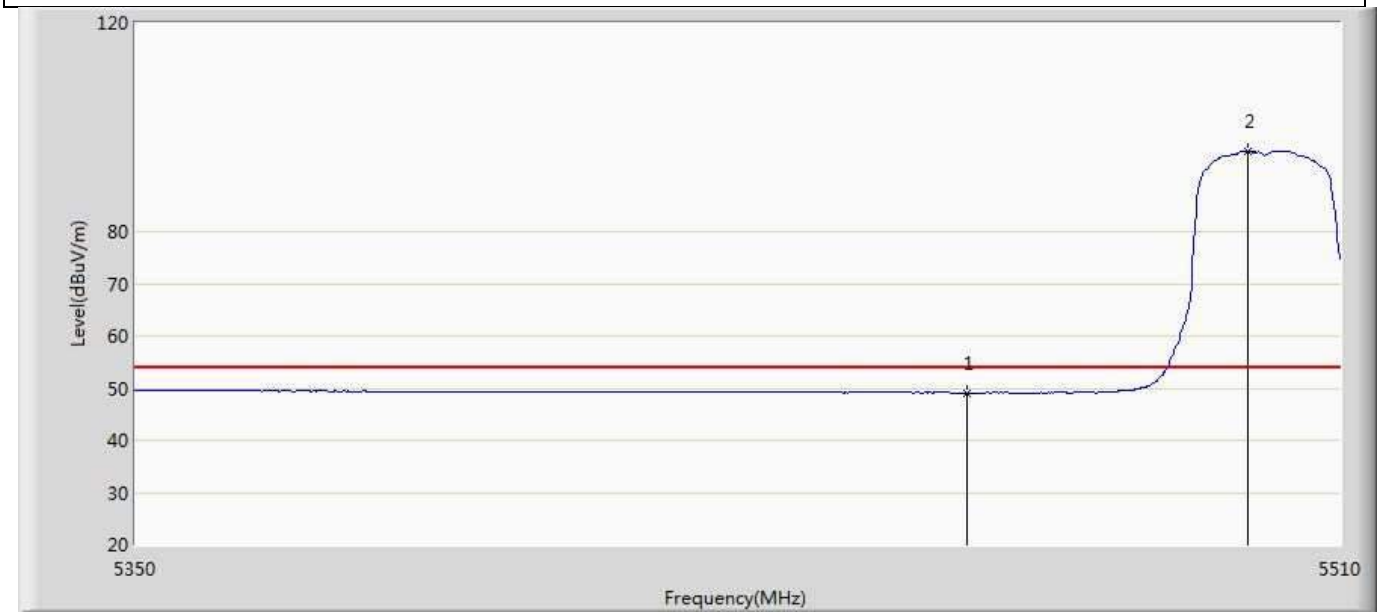
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	49.170	11.426	-4.830	54.000	37.744	AV
2	*	5497.200	95.273	57.446	41.273	54.000	37.827	AV

Profile: 2090075R	Page No.: 7
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 19:16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 2:Transmint at 5500MHz by 802.11n(20MHz)	



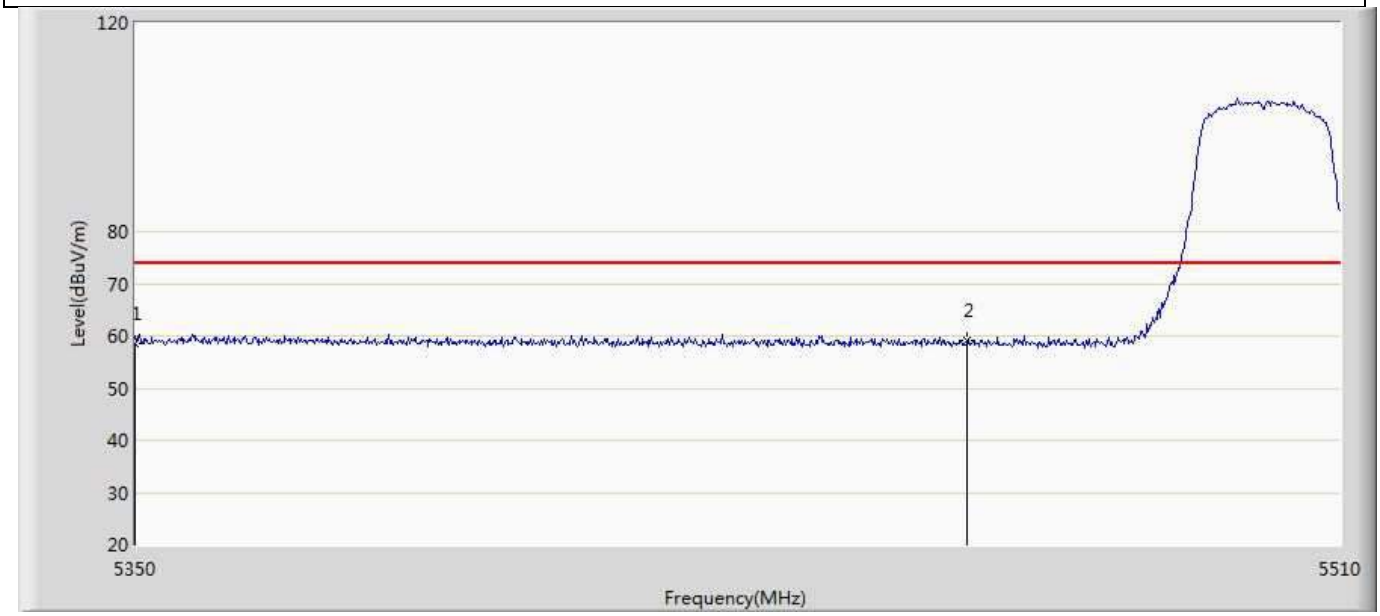
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	57.686	19.942	-16.314	74.000	37.744	PK
2	*	5495.920	101.560	63.735	27.560	74.000	37.826	PK

Profile: 2090075R	Page No.: 8
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 19:19
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 2:Transmint at 5500MHz by 802.11n(20MHz)	



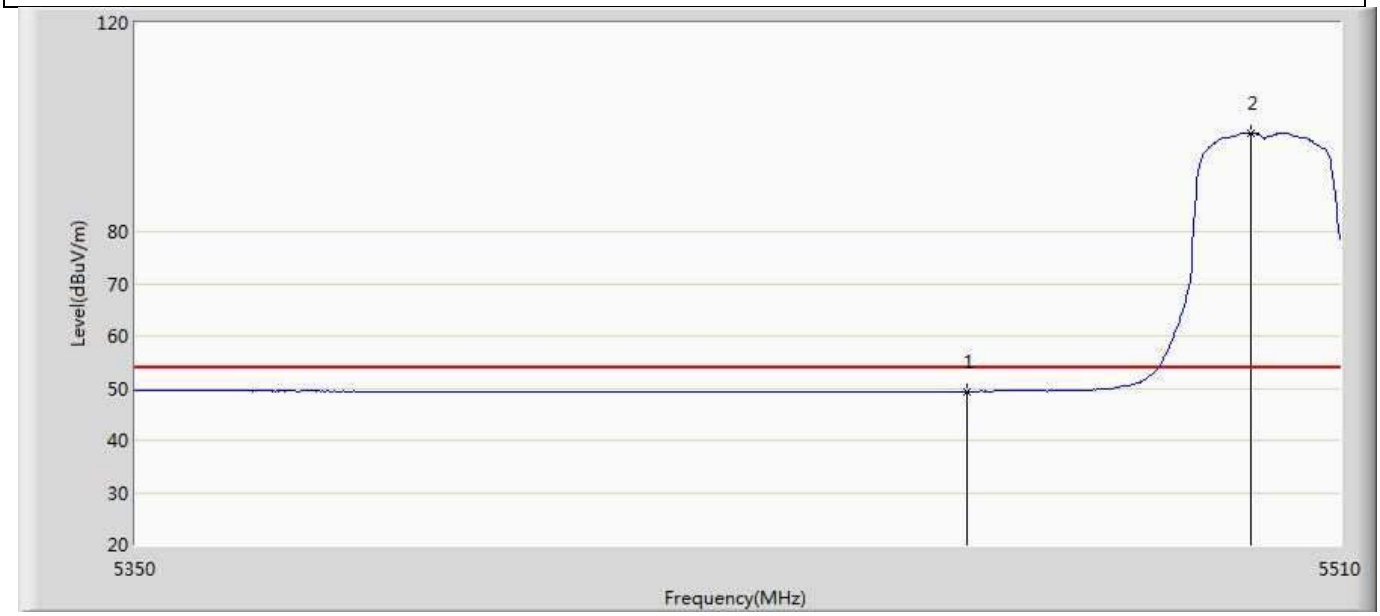
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	49.109	11.365	-4.891	54.000	37.744	AV
2	*	5497.520	95.345	57.517	41.345	54.000	37.827	AV

Profile: 2090075R	Page No.: 9
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 19:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 4:Transmint at 5500MHz by 802.11ac(20MHz)	



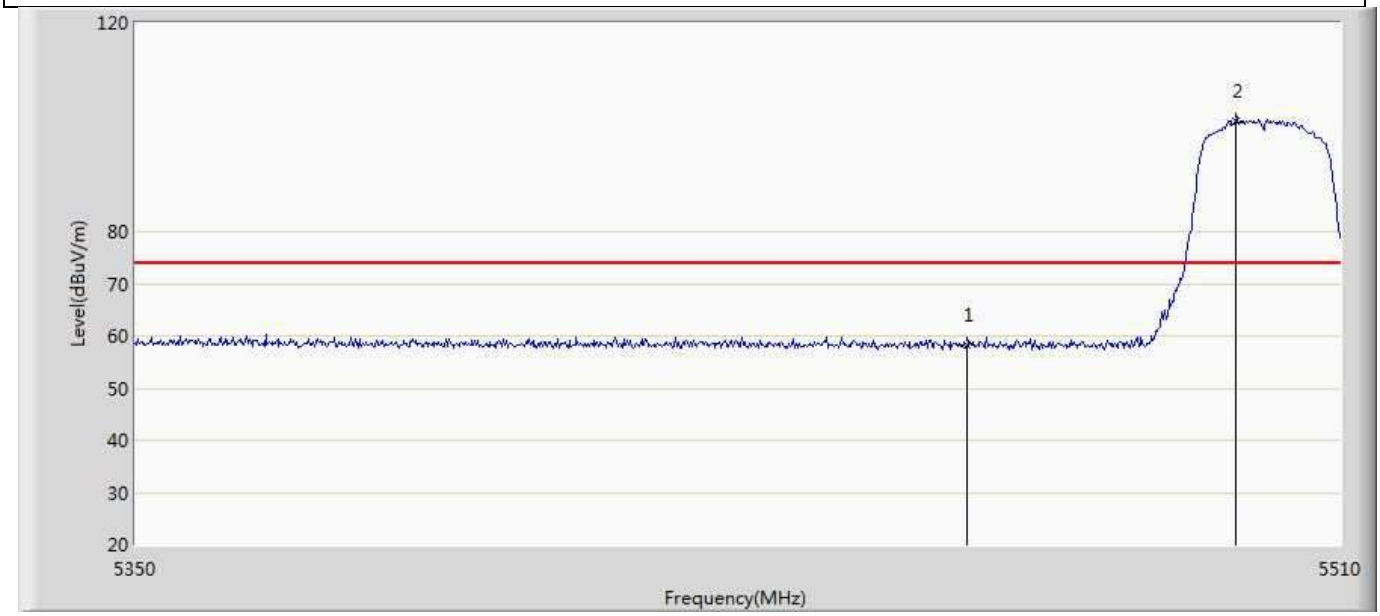
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5350.000	58.489	20.965	-15.511	74.000	37.523	PK
2	*	5460.000	59.067	21.323	-14.933	74.000	37.744	PK

Profile: 2090075R	Page No.: 10
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 19:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 4:Transmint at 5500MHz by 802.11ac(20MHz)	



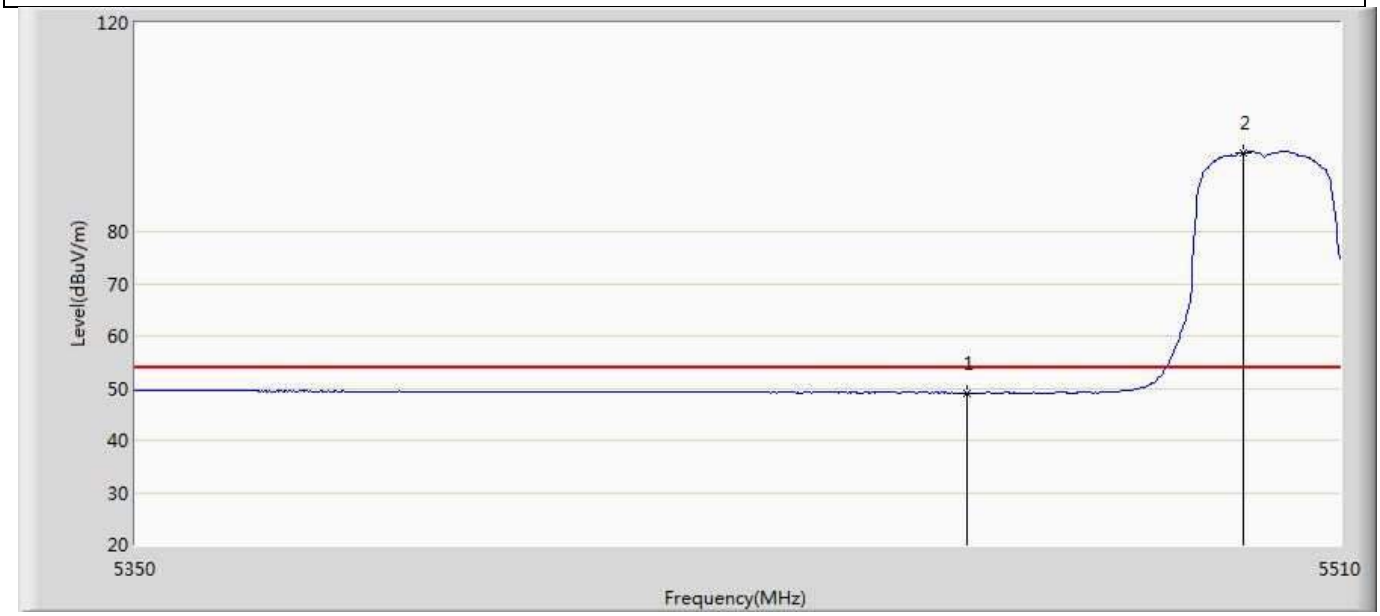
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	49.283	11.539	-4.717	54.000	37.744	AV
2	*	5498.000	98.841	61.013	44.841	54.000	37.828	AV

Profile: 2090075R	Page No.: 11
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 19:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 4:Transmint at 5500MHz by 802.11ac(20MHz)	



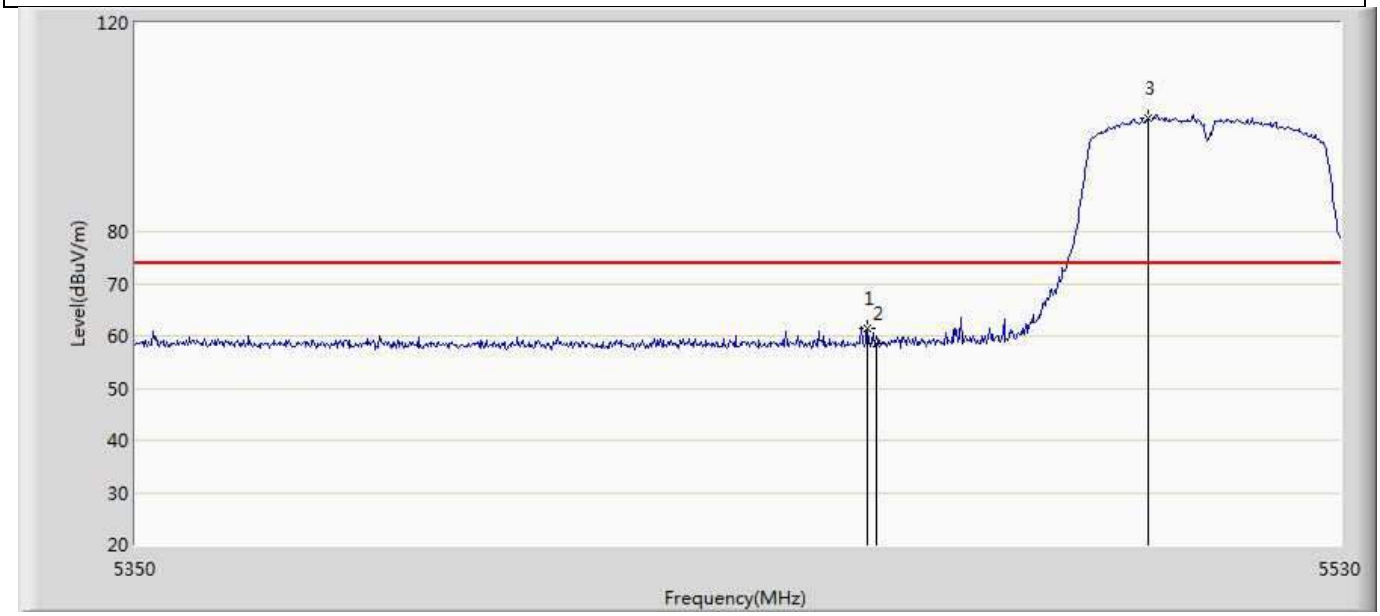
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	58.219	20.475	-15.781	74.000	37.744	PK
2	*	5495.920	101.193	63.368	27.193	74.000	37.826	PK

Profile: 2090075R	Page No.: 12
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 19:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 4:Transmint at 5500MHz by 802.11ac(20MHz)	



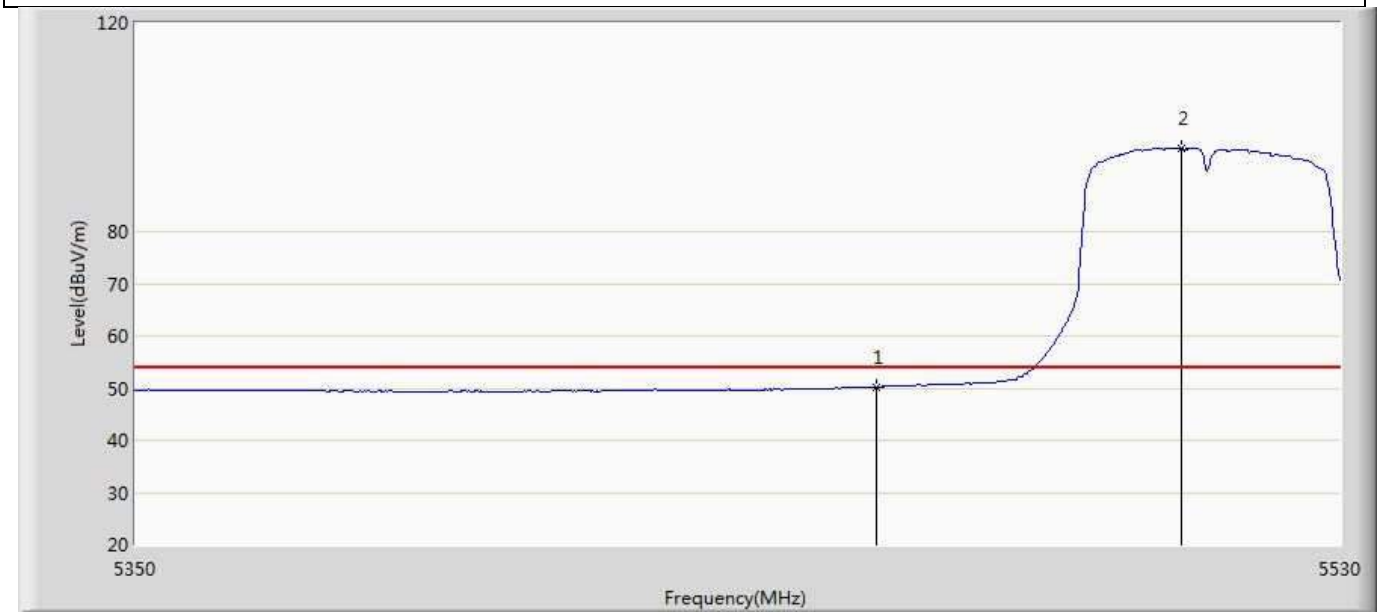
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	49.073	11.329	-4.927	54.000	37.744	AV
2	*	5497.040	95.167	57.340	41.167	54.000	37.826	AV

Profile: 2090075R	Page No.: 13
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 19:30
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 3:Transmint at 5510MHz by 802.11n(40MHz)	



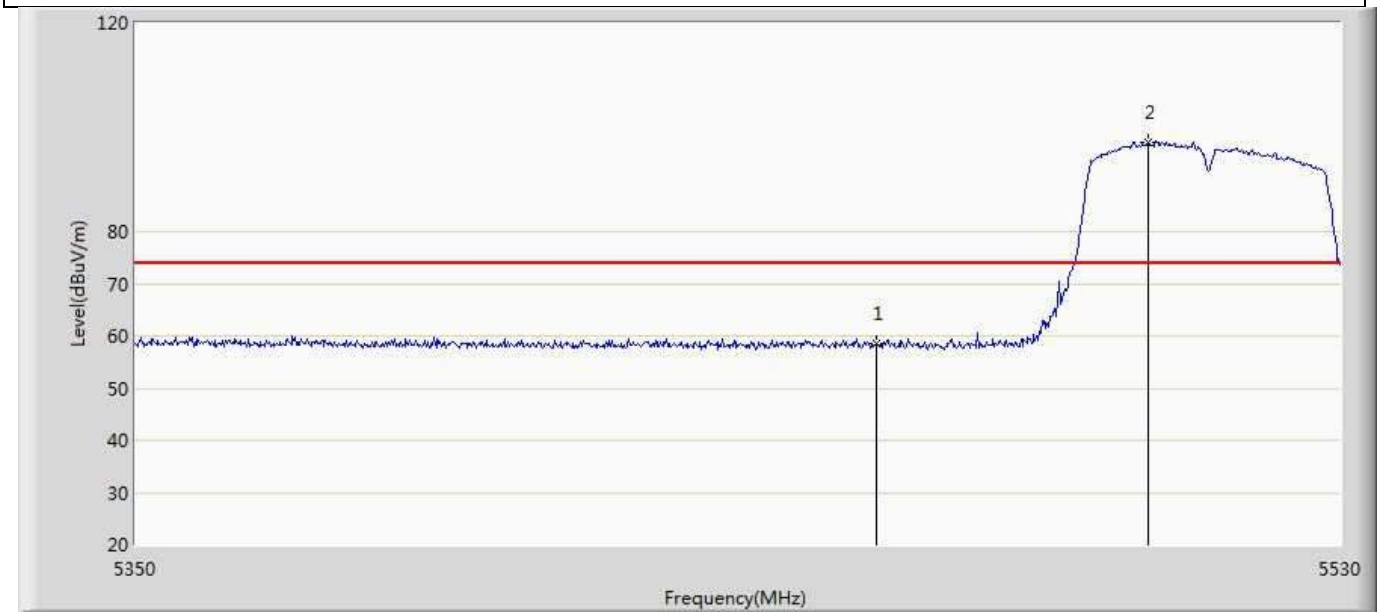
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5458.720	61.496	23.754	-12.504	74.000	37.742	PK
2		5460.000	58.411	20.667	-15.589	74.000	37.744	PK
3	*	5501.020	101.614	63.781	27.614	74.000	37.833	PK

Profile: 2090075R	Page No.: 14
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 19:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 3:Transmint at 5510MHz by 802.11n(40MHz)	



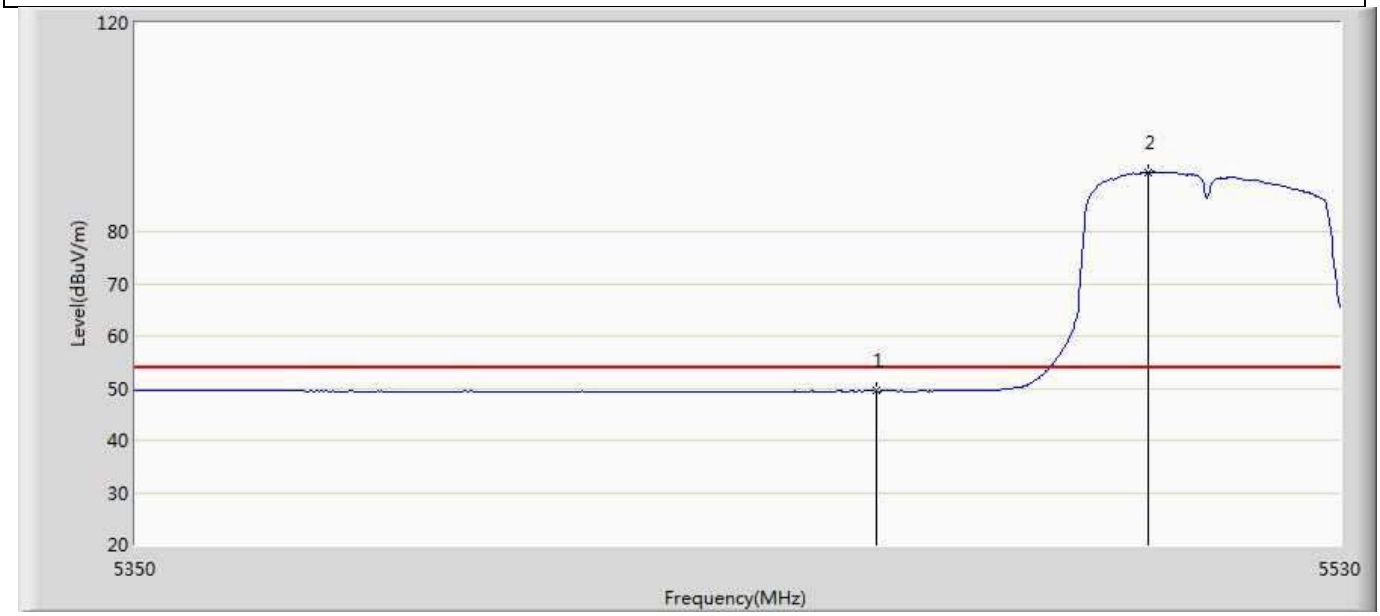
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	50.107	12.363	-3.893	54.000	37.744	AV
2	*	5505.880	95.932	58.091	41.932	54.000	37.841	AV

Profile: 2090075R	Page No.: 15
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 19:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 3:Transmint at 5510MHz by 802.11n(40MHz)	



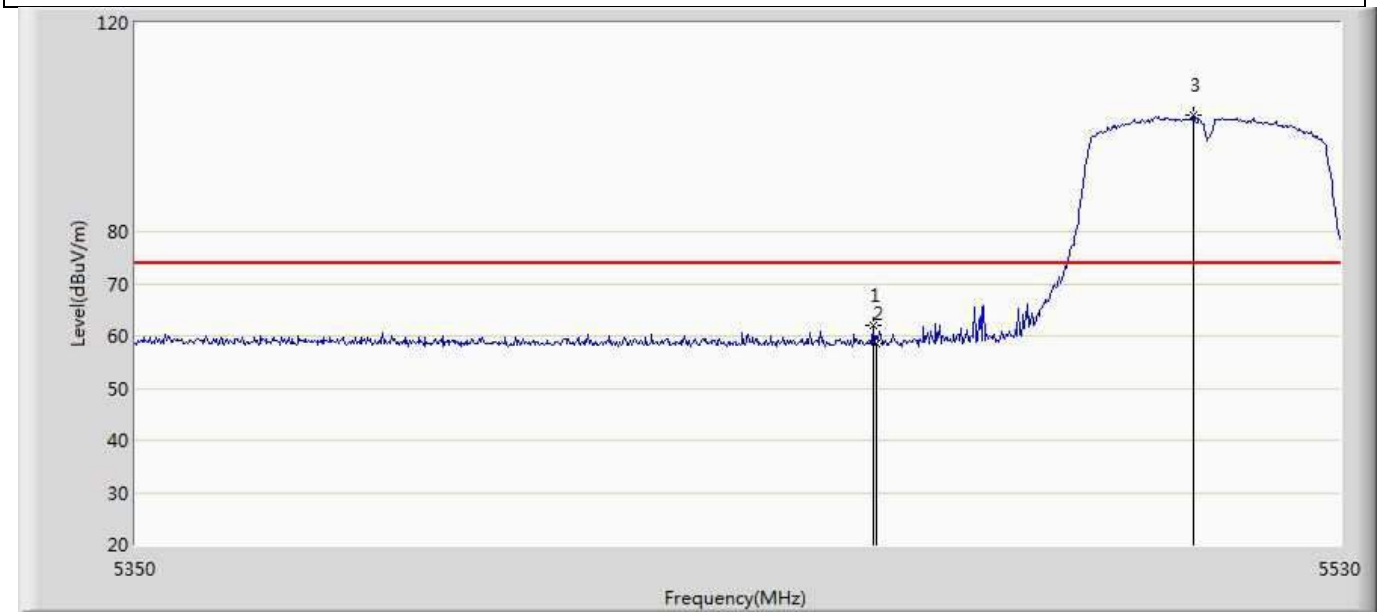
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	58.501	20.757	-15.499	74.000	37.744	PK
2	*	5501.020	96.990	59.157	22.990	74.000	37.833	PK

Profile: 2090075R	Page No.: 16
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 19:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 3:Transmint at 5510MHz by 802.11n(40MHz)	



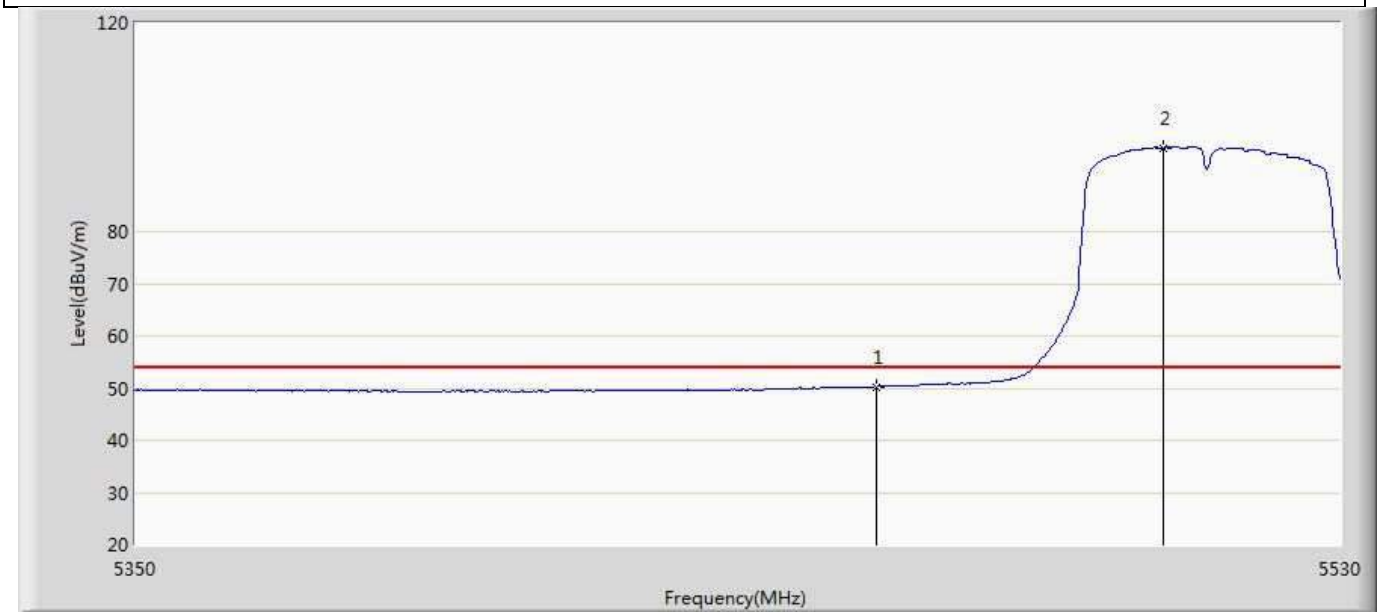
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	49.432	11.688	-4.568	54.000	37.744	AV
2	*	5501.020	91.435	53.602	37.435	54.000	37.833	AV

Profile: 2090075R	Page No.: 17
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 19:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 5:Transmint at 5510MHz by 802.11ac(40MHz)	



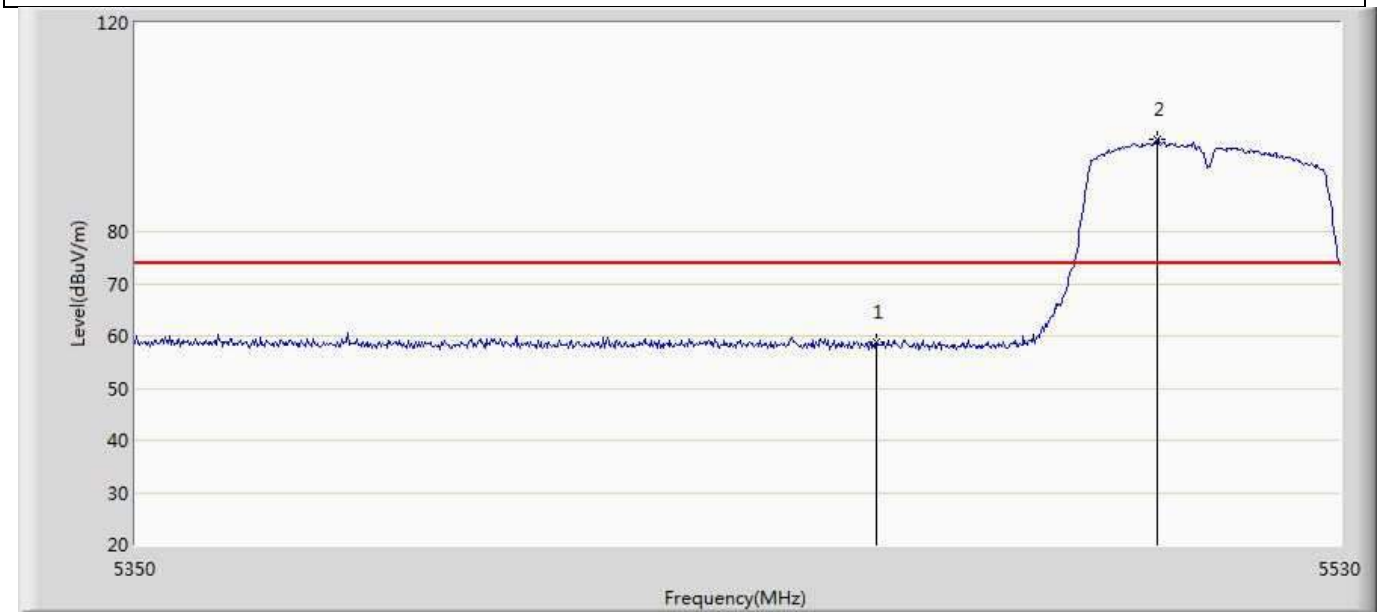
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5459.620	61.990	24.246	-12.010	74.000	37.743	PK
2		5460.000	58.477	20.733	-15.523	74.000	37.744	PK
3	*	5507.860	102.191	64.348	28.191	74.000	37.843	PK

Profile: 2090075R	Page No.: 18
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 19:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 5:Transmint at 5510MHz by 802.11ac(40MHz)	



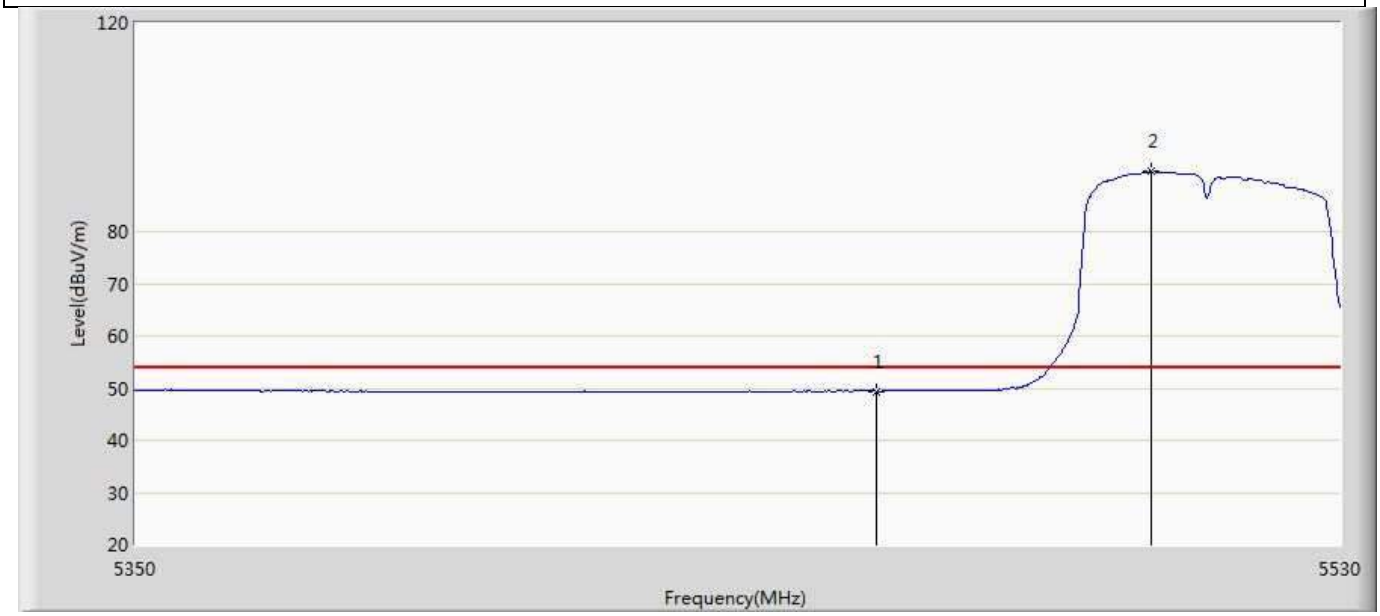
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	50.268	12.524	-3.732	54.000	37.744	AV
2	*	5503.180	96.036	58.199	42.036	54.000	37.837	AV

Profile: 2090075R	Page No.: 19
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 19:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 5:Transmint at 5510MHz by 802.11ac(40MHz)	



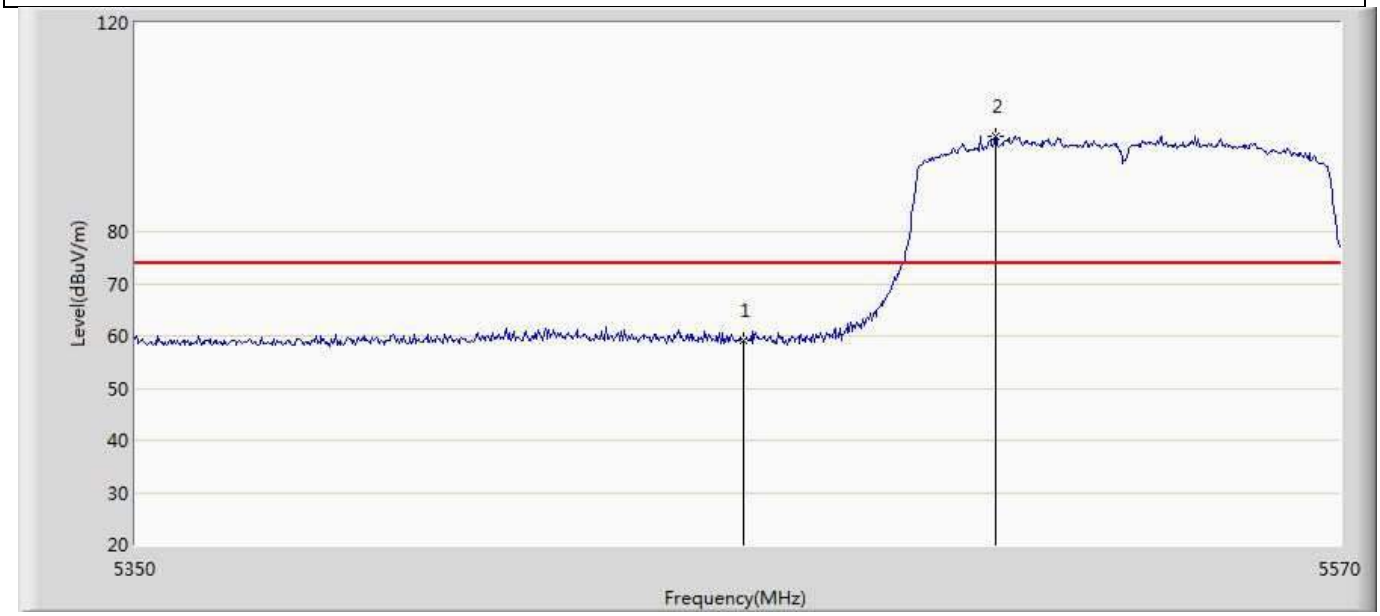
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	58.760	21.016	-15.240	74.000	37.744	PK
2	*	5502.280	97.649	59.813	23.649	74.000	37.835	PK

Profile: 2090075R	Page No.: 20
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 19:42
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 5:Transmint at 5510MHz by 802.11ac(40MHz)	



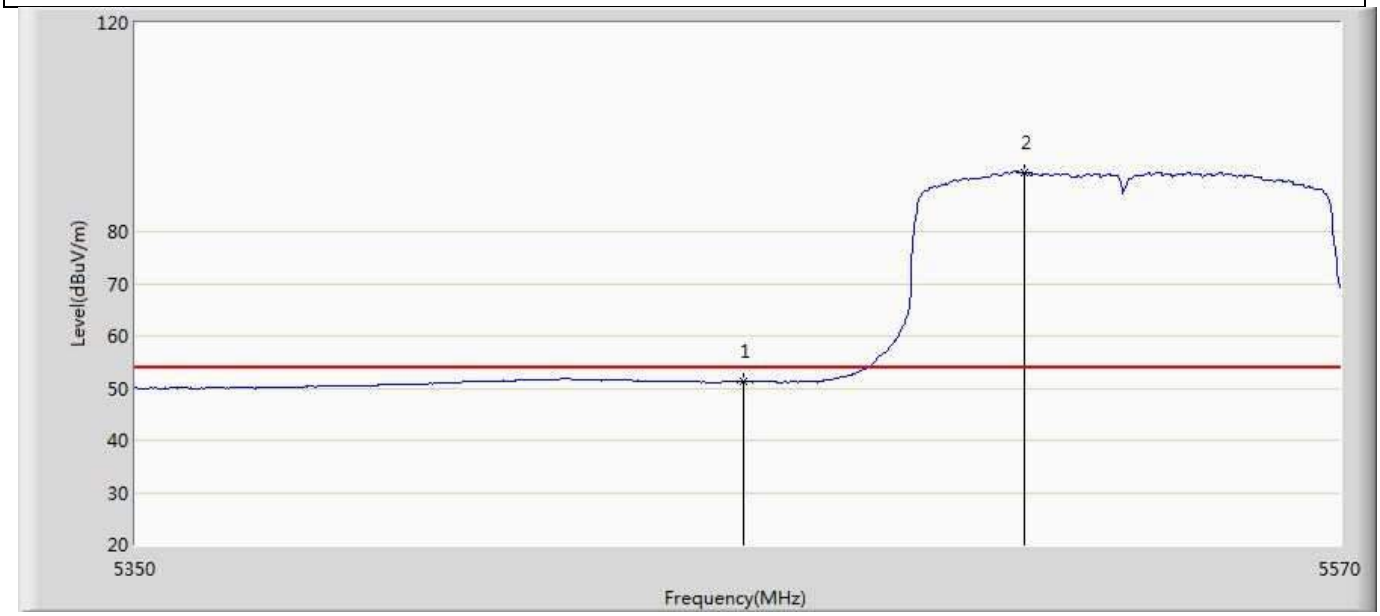
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	49.382	11.638	-4.618	54.000	37.744	AV
2	*	5501.380	91.464	53.630	37.464	54.000	37.834	AV

Profile: 2090075R	Page No.: 21
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 19:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 6:Transmint at 5530MHz by 802.11ac(80MHz)	



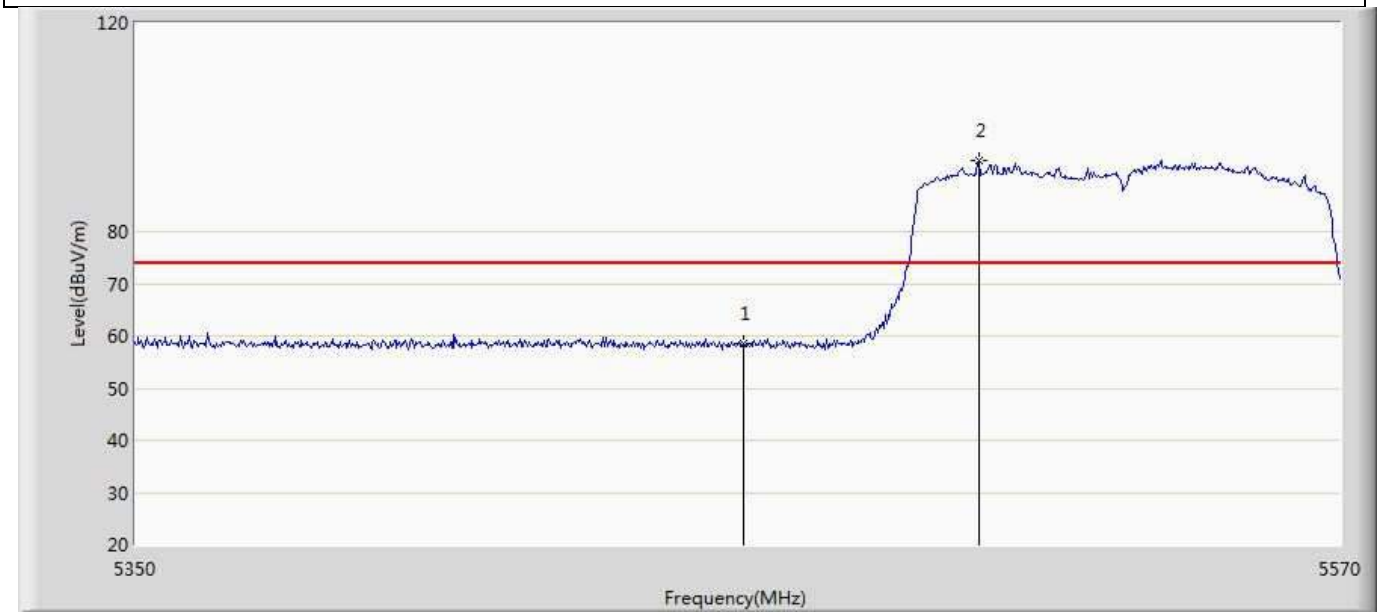
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	59.265	21.521	-14.735	74.000	37.744	PK
2	*	5506.200	98.191	60.350	24.191	74.000	37.842	PK

Profile: 2090075R	Page No.: 22
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 19:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 6:Transmint at 5530MHz by 802.11ac(80MHz)	



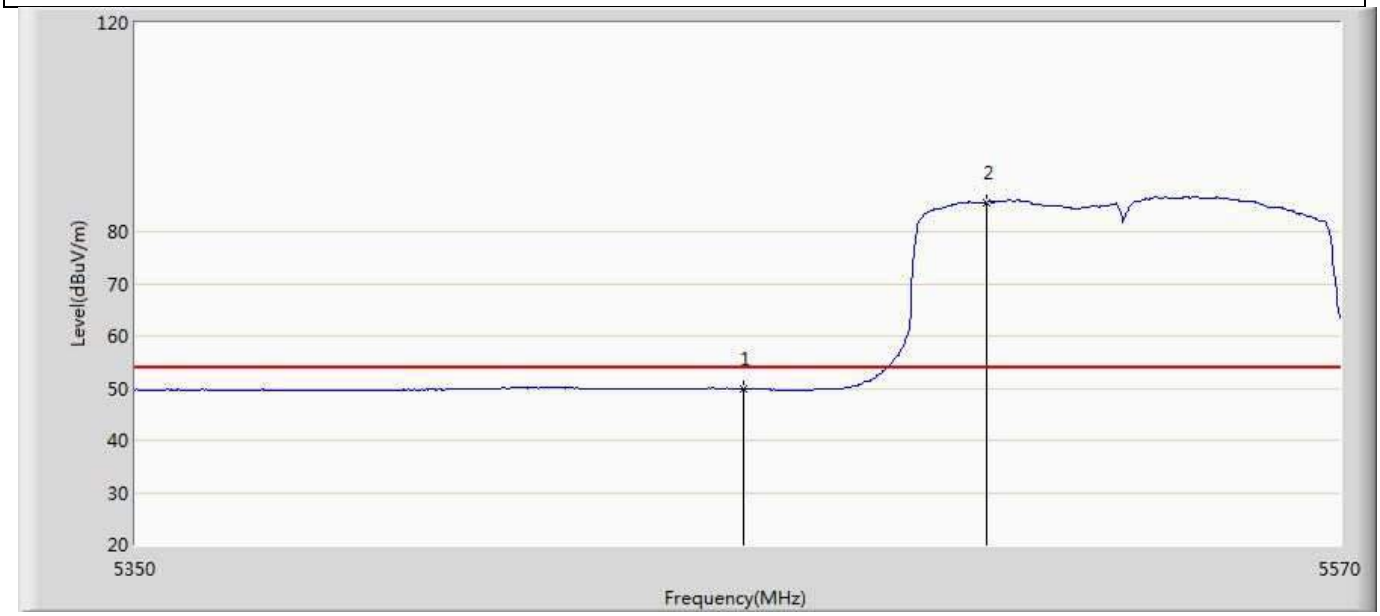
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	51.160	13.416	-2.840	54.000	37.744	AV
2	*	5511.480	91.354	53.506	37.354	54.000	37.847	AV

Profile: 2090075R	Page No.: 23
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 19:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 6:Transmint at 5530MHz by 802.11ac(80MHz)	



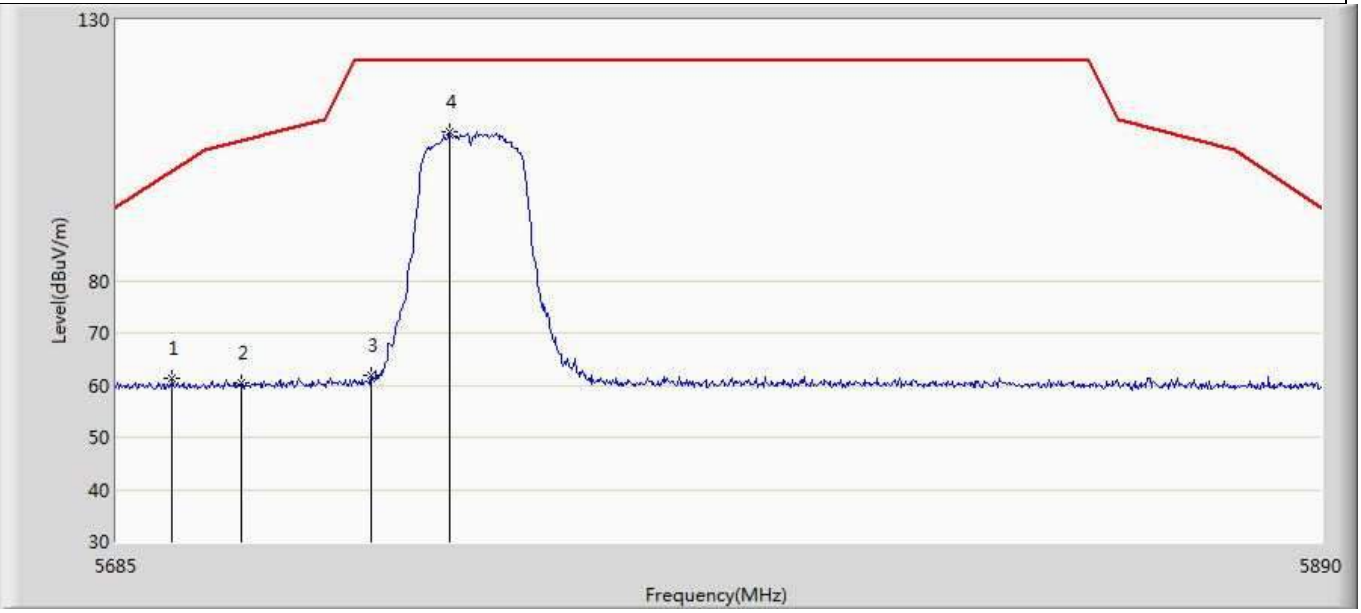
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	58.621	20.877	-15.379	74.000	37.744	PK
2	*	5503.120	93.744	55.907	19.744	74.000	37.837	PK

Profile: 2090075R	Page No.: 24
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/19 - 19:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 6:Transmint at 5530MHz by 802.11ac(80MHz)	



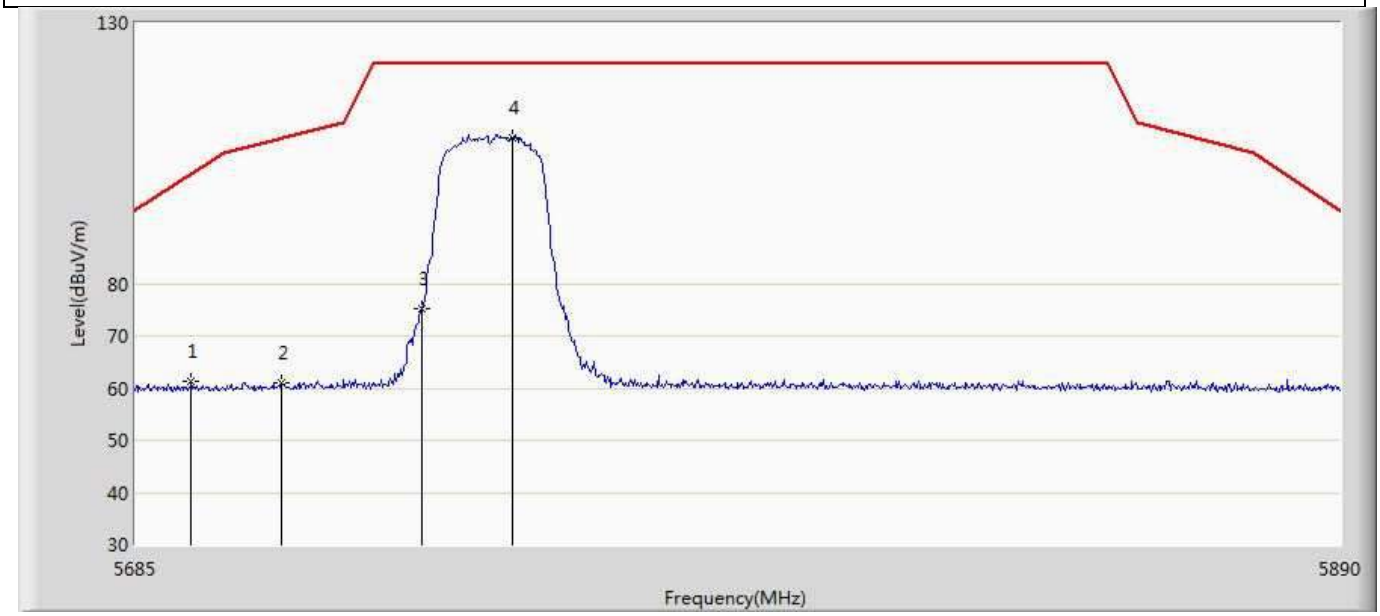
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	49.853	12.109	-4.147	54.000	37.744	AV
2	*	5504.660	85.577	47.738	31.577	54.000	37.839	AV

Profile: 2090075R	Page No.: 1
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/20 - 09:09
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 1:Transmint at 5745MHz by 802.11a	



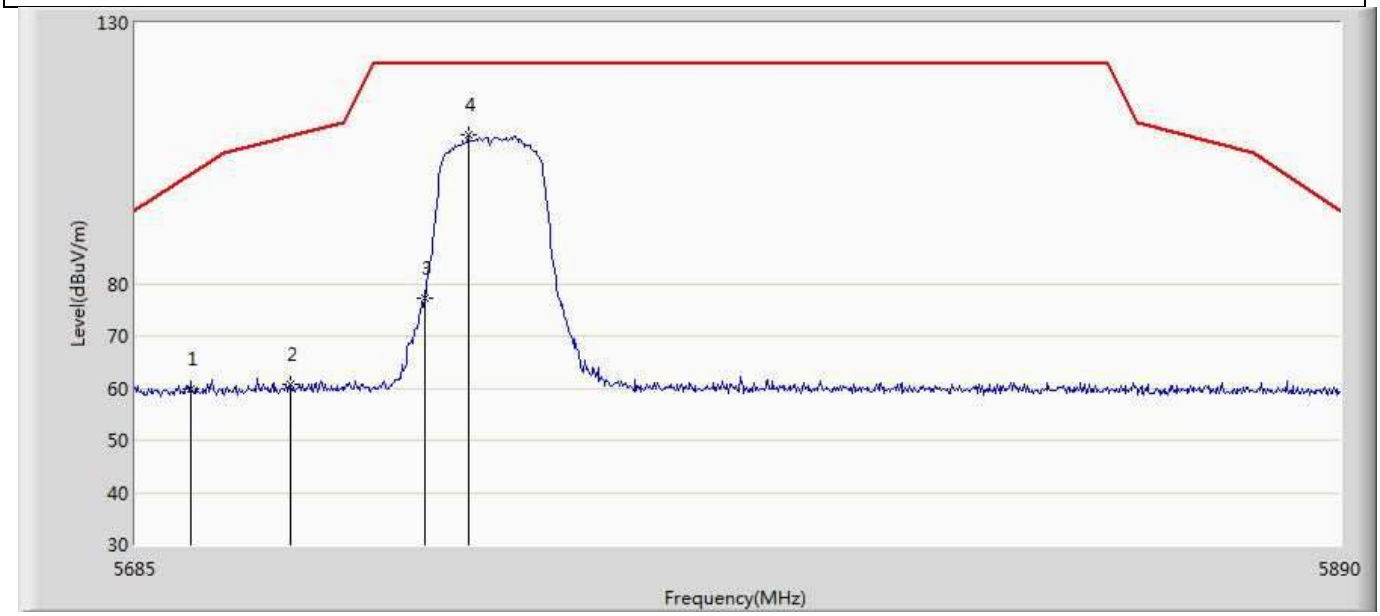
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5694.430	61.311	23.155	-39.784	101.094	38.155	PK
2		5705.910	60.523	22.350	-46.334	106.857	38.174	PK
3		5727.845	61.772	23.568	-60.428	122.200	38.205	PK
4	*	5740.965	108.596	70.363	-13.604	122.200	38.233	PK

Profile: 2090075R	Page No.: 2
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/20 - 09:48
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 2:Transmint at 5745MHz by 802.11n(20MHz)	



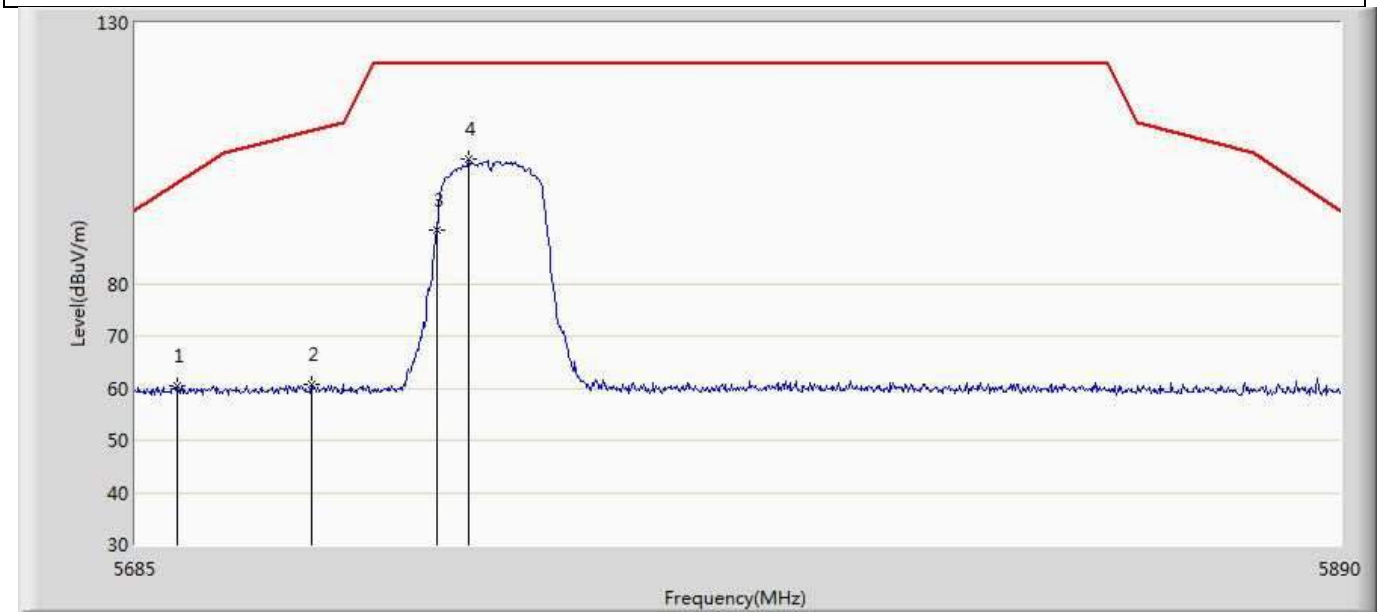
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5694.430	61.311	23.155	-39.784	101.094	38.155	PK
2		5709.600	60.905	22.726	-46.986	107.890	38.179	PK
3		5733.175	75.152	36.936	-47.048	122.200	38.216	PK
4	*	5748.550	107.952	69.702	-14.248	122.200	38.250	PK

Profile: 2090075R	Page No.: 3
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/20 - 09:52
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 4:Transmint at 5745MHz by 802.11ac(20MHz)	



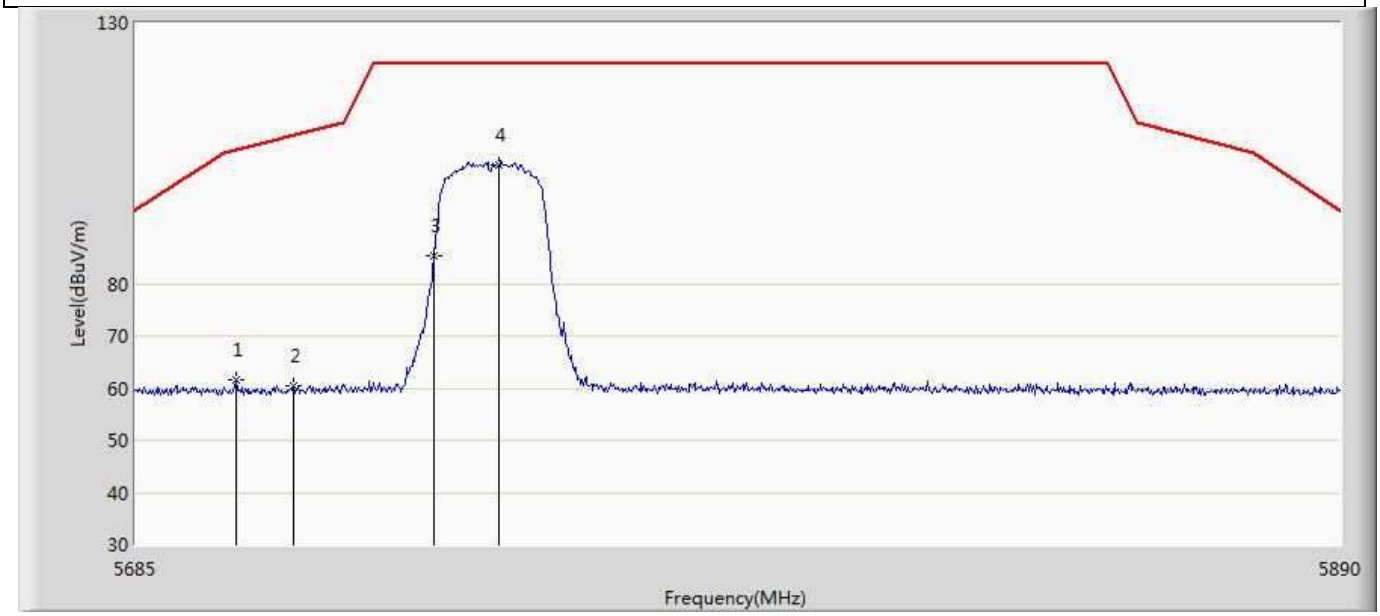
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5694.430	59.720	21.564	-41.375	101.094	38.155	PK
2		5711.035	60.606	22.425	-47.687	108.292	38.181	PK
3		5733.585	77.235	39.018	-44.965	122.200	38.217	PK
4	*	5740.965	108.494	70.261	-13.706	122.200	38.233	PK

Profile: 2090075R	Page No.: 4
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/20 - 09:53
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 1:Transmint at 5745MHz by 802.11a	



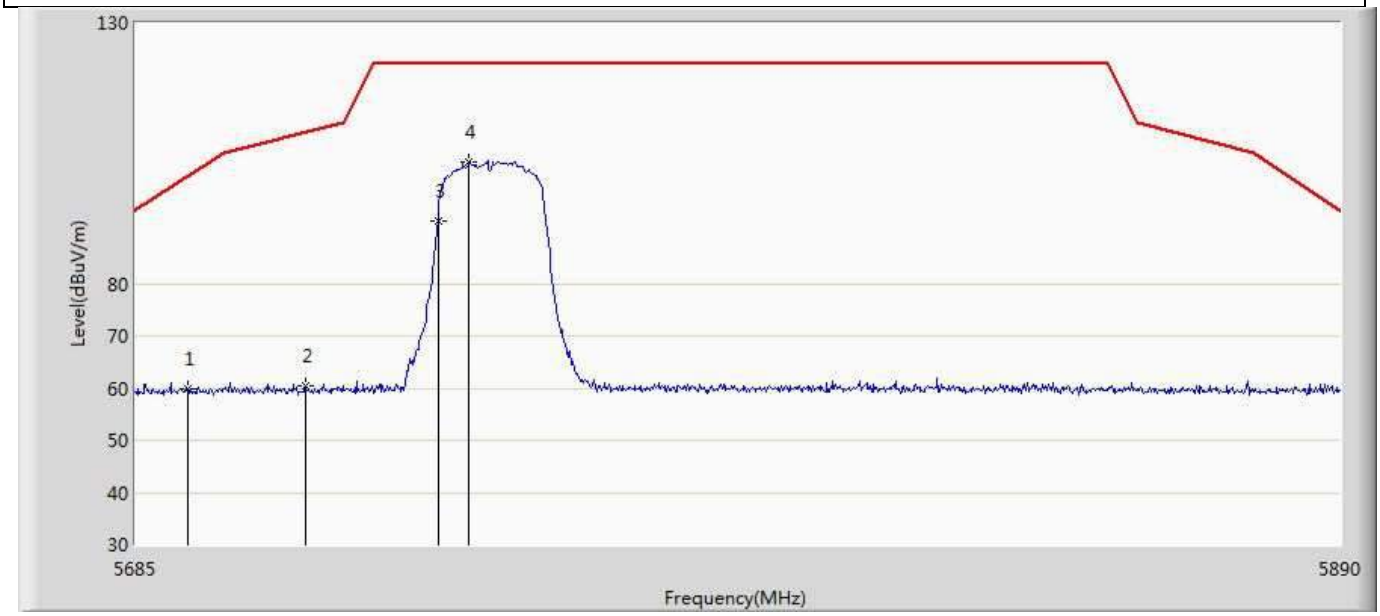
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5692.175	60.329	22.177	-39.102	99.431	38.152	PK
2		5714.520	60.718	22.533	-48.549	109.268	38.185	PK
3		5735.635	90.339	52.117	-31.861	122.200	38.222	PK
4	*	5740.965	103.772	65.539	-18.428	122.200	38.233	PK

Profile: 2090075R	Page No.: 5
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/20 - 09:55
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 2:Transmint at 5745MHz by 802.11n(20MHz)	



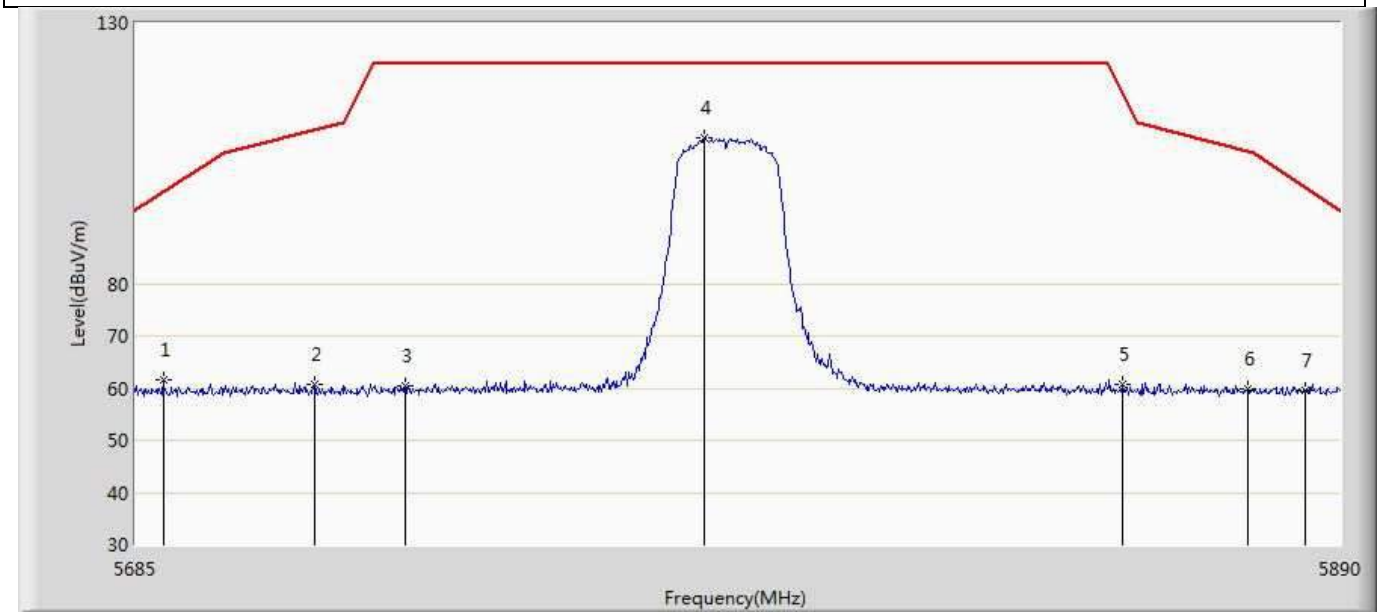
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5702.015	61.668	23.501	-44.097	105.765	38.167	PK
2		5711.650	60.458	22.277	-48.006	108.464	38.182	PK
3		5735.225	85.375	47.154	-36.825	122.200	38.221	PK
4	*	5746.090	102.814	64.569	-19.386	122.200	38.244	PK

Profile: 2090075R	Page No.: 6
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/20 - 09:57
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 4:Transmint at 5745MHz by 802.11ac(20MHz)	



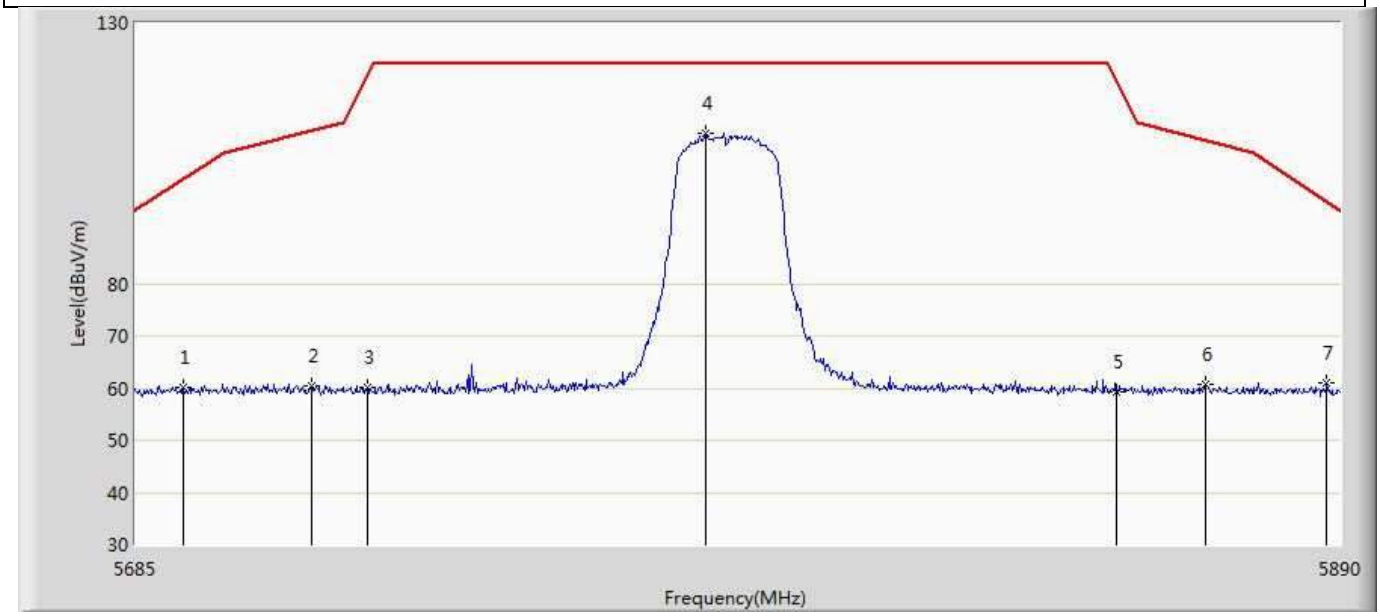
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5693.815	59.836	21.681	-40.805	100.641	38.155	PK
2		5713.495	60.566	22.382	-48.415	108.981	38.184	PK
3		5735.840	92.170	53.948	-30.030	122.200	38.222	PK
4	*	5741.170	103.459	65.225	-18.741	122.200	38.233	PK

Profile: 2090075R	Page No.: 7
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/20 - 09:58
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 1:Transmint at 5785MHz by 802.11a	



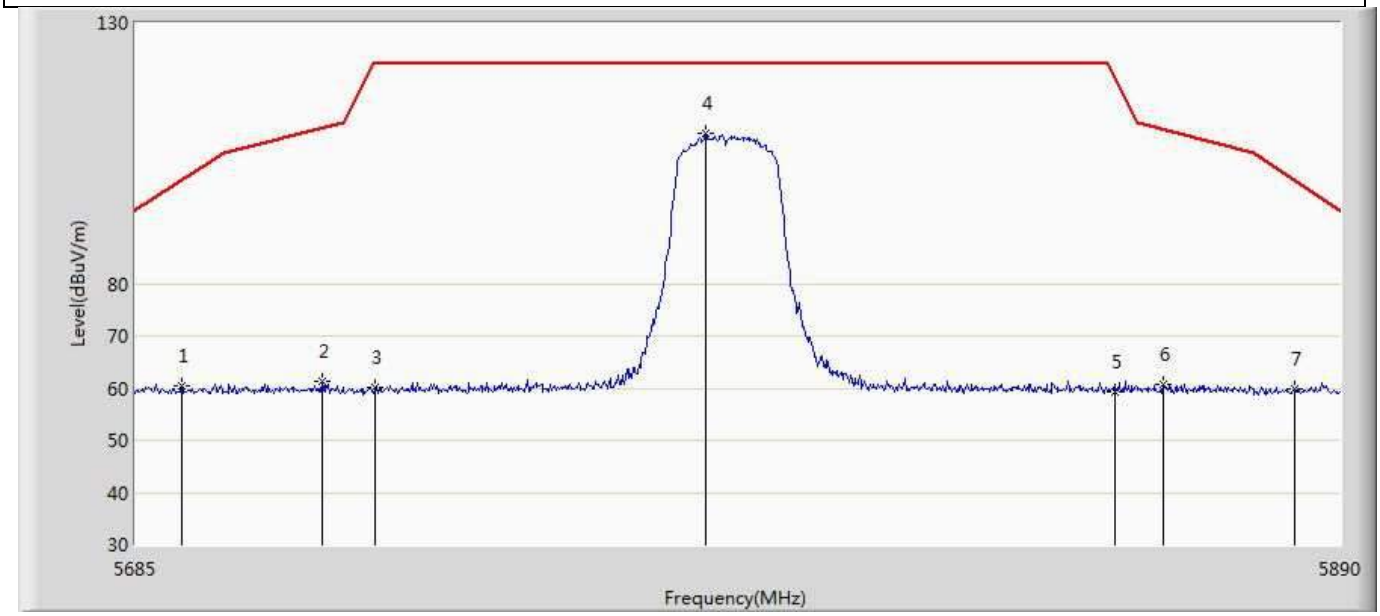
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5689.715	61.527	23.380	-36.088	97.616	38.148	PK
2		5715.135	60.640	22.454	-48.800	109.440	38.186	PK
3		5730.305	60.514	22.304	-61.686	122.200	38.210	PK
4	*	5780.940	107.849	69.546	-14.351	122.200	38.304	PK
5		5852.485	60.853	22.435	-55.680	116.533	38.418	PK
6		5874.010	59.997	21.543	-45.480	105.477	38.454	PK
7		5884.055	59.573	21.100	-38.903	98.476	38.473	PK

Profile: 2090075R	Page No.: 8
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/20 - 10:05
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 2:Transmint at 5785MHz by 802.11n(20MHz)	



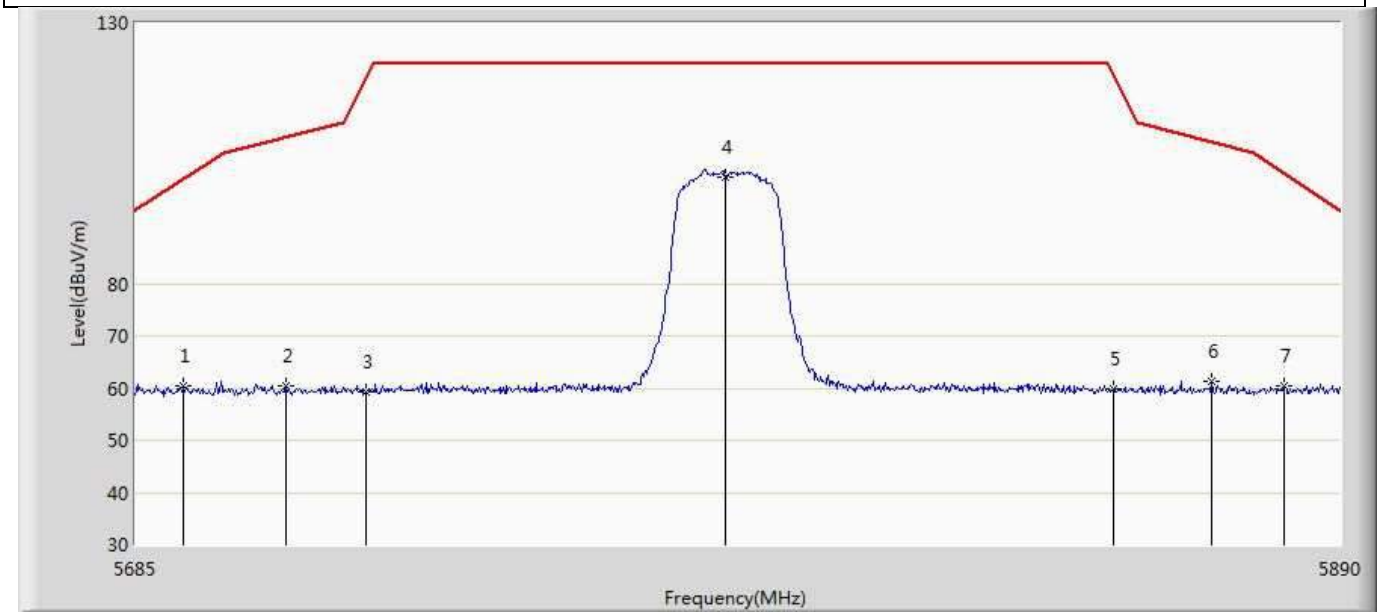
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5692.995	60.151	21.997	-39.885	100.036	38.153	PK
2		5714.725	60.376	22.191	-48.948	109.325	38.186	PK
3		5723.950	60.126	21.929	-59.680	119.807	38.197	PK
4	*	5781.145	108.860	70.557	-13.340	122.200	38.304	PK
5		5851.460	59.331	20.914	-59.540	118.870	38.416	PK
6		5866.835	60.833	22.392	-46.651	107.484	38.441	PK
7		5887.745	60.909	22.429	-34.830	95.739	38.480	PK

Profile: 2090075R	Page No.: 9
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/20 - 10:10
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 4:Transmint at 5785MHz by 802.11ac(20MHz)	



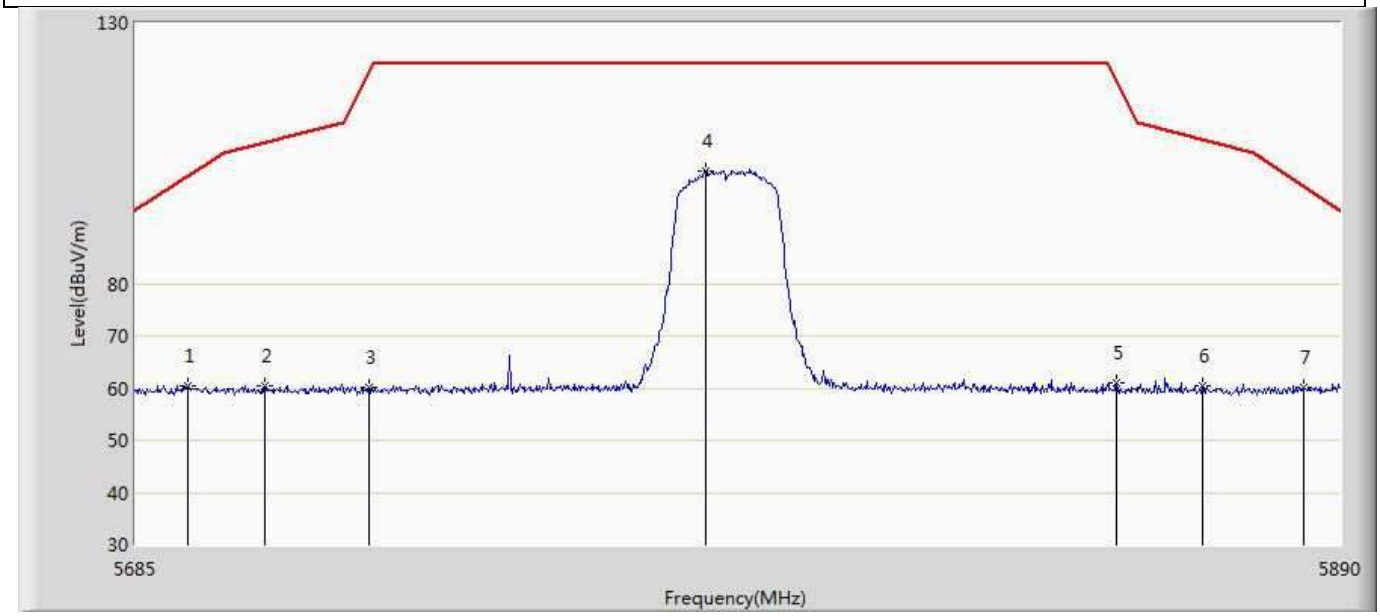
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5692.790	60.522	22.369	-39.362	99.885	38.153	PK
2		5716.365	61.173	22.985	-48.611	109.784	38.188	PK
3		5725.385	60.197	21.998	-62.003	122.200	38.199	PK
4	*	5781.145	108.930	70.627	-13.270	122.200	38.304	PK
5		5851.255	59.323	20.907	-60.014	119.338	38.416	PK
6		5859.455	60.689	22.261	-48.862	109.551	38.428	PK
7		5882.210	59.847	21.378	-39.998	99.845	38.469	PK

Profile: 2090075R	Page No.: 10
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/20 - 10:13
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 1:Transmint at 5785MHz by 802.11a	



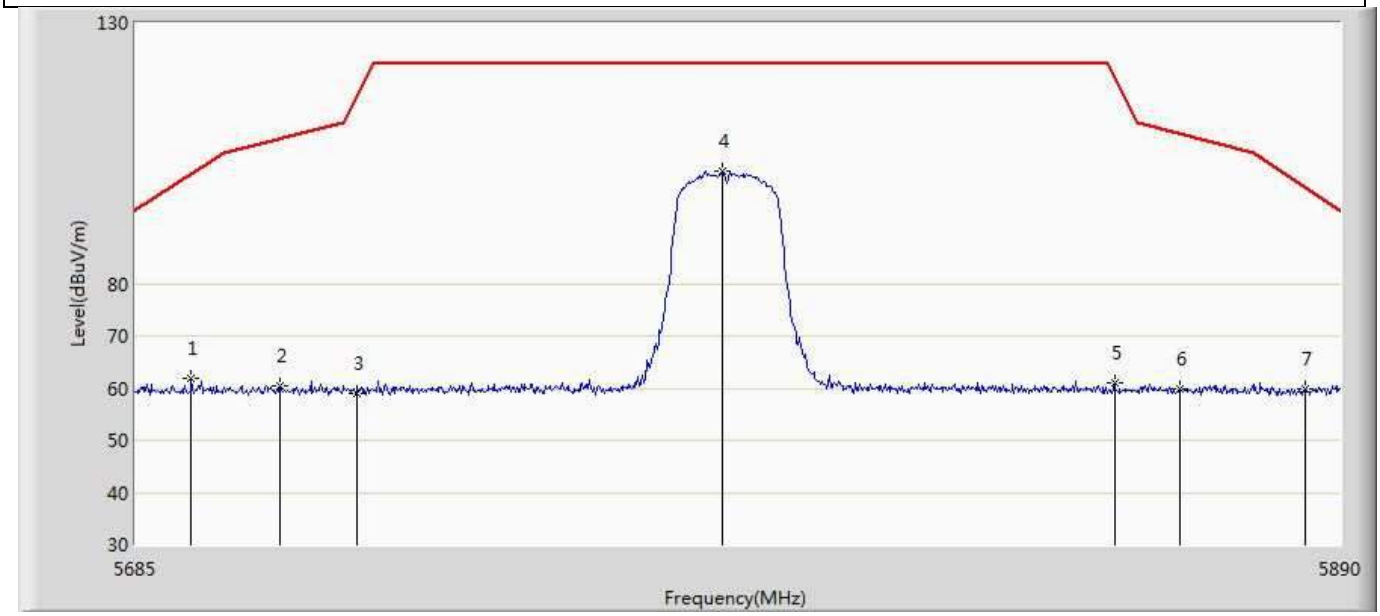
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5693.200	60.292	22.138	-39.895	100.187	38.154	PK
2		5710.215	60.497	22.317	-47.566	108.063	38.180	PK
3		5723.745	59.226	21.029	-60.113	119.340	38.197	PK
4	*	5784.425	100.510	62.202	-21.690	122.200	38.307	PK
5		5850.845	59.978	21.562	-60.295	120.273	38.415	PK
6		5867.860	61.173	22.730	-46.024	107.197	38.442	PK
7		5880.365	60.492	22.026	-40.723	101.215	38.466	PK

Profile: 2090075R	Page No.: 11
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/20 - 10:16
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 2:Transmint at 5785MHz by 802.11n(20MHz)	



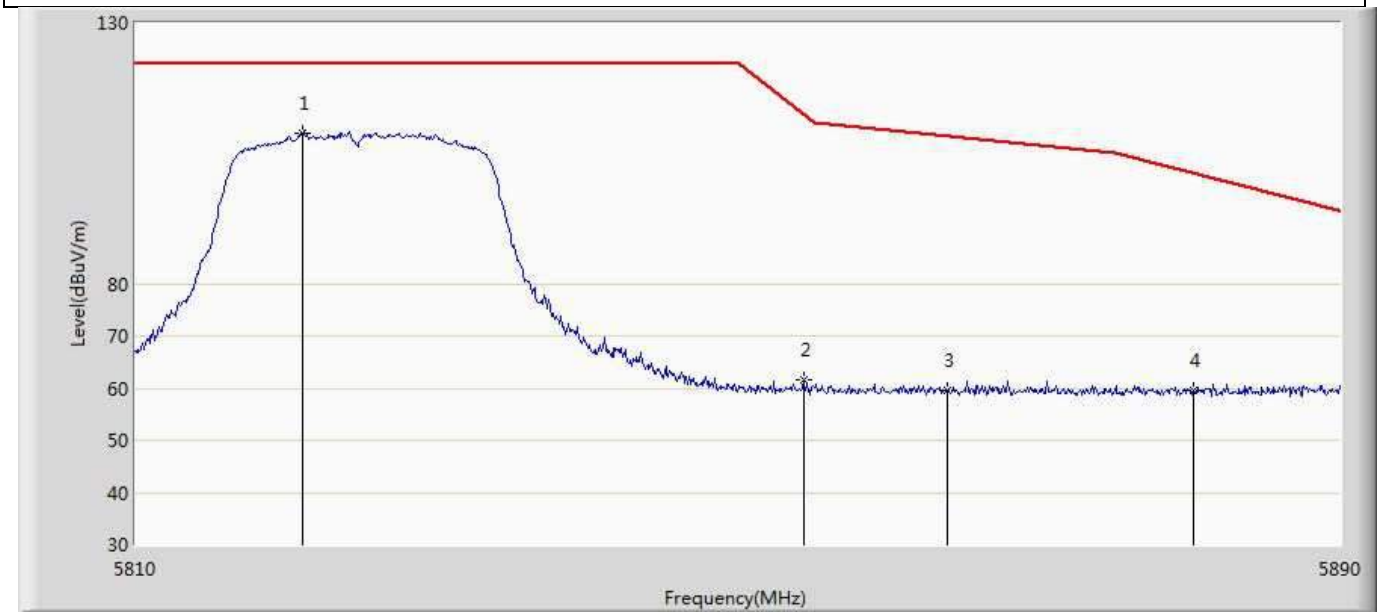
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5693.815	60.346	22.191	-40.295	100.641	38.155	PK
2		5706.730	60.319	22.144	-46.768	107.087	38.175	PK
3		5724.155	60.094	21.896	-60.180	120.274	38.198	PK
4	*	5781.145	101.673	63.370	-20.527	122.200	38.304	PK
5		5851.460	61.079	22.662	-57.792	118.870	38.416	PK
6		5866.220	60.481	22.041	-47.175	107.656	38.440	PK
7		5883.850	60.071	21.599	-38.557	98.628	38.473	PK

Profile: 2090075R	Page No.: 12
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/20 - 10:17
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 4:Transmint at 5785MHz by 802.11ac(20MHz)	



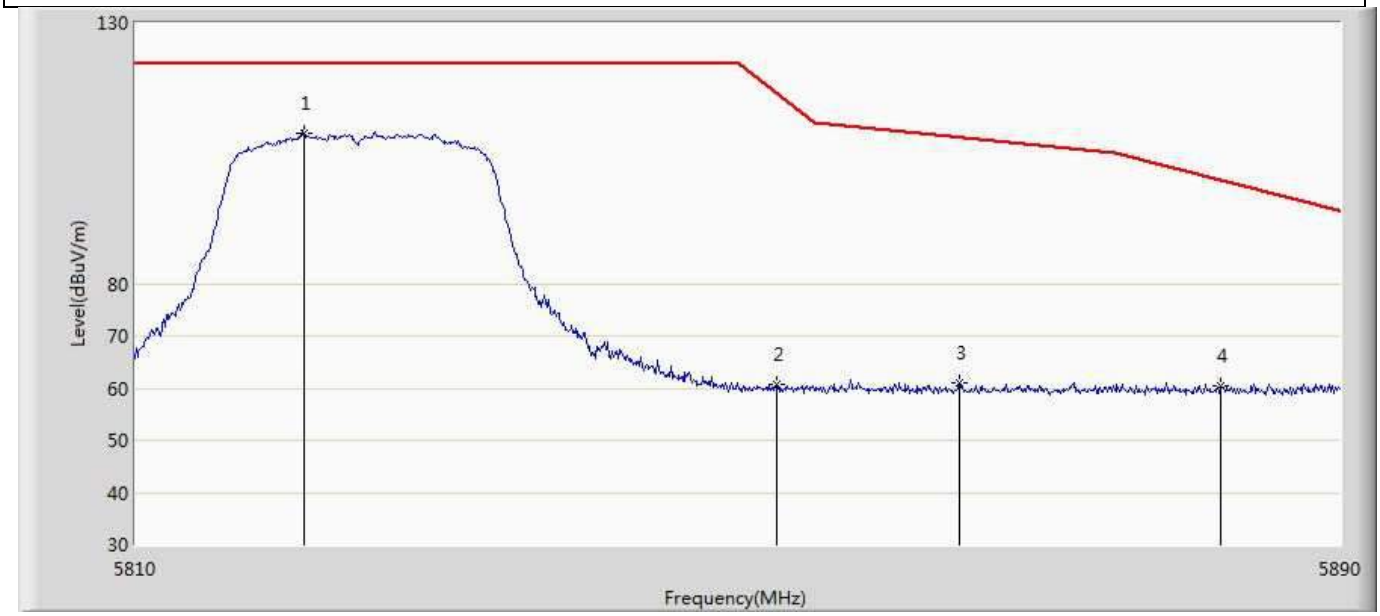
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5694.430	61.852	23.696	-39.243	101.094	38.155	PK
2		5709.190	60.514	22.336	-47.261	107.776	38.178	PK
3		5722.310	59.033	20.838	-57.035	116.068	38.195	PK
4	*	5784.015	101.565	63.258	-20.635	122.200	38.307	PK
5		5851.050	61.151	22.735	-58.654	119.805	38.416	PK
6		5862.325	59.888	21.455	-48.859	108.747	38.432	PK
7		5884.055	59.990	21.517	-38.486	98.476	38.473	PK

Profile: 2090075R	Page No.: 13
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/20 - 10:19
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 1:Transmint at 5825MHz by 802.11a	



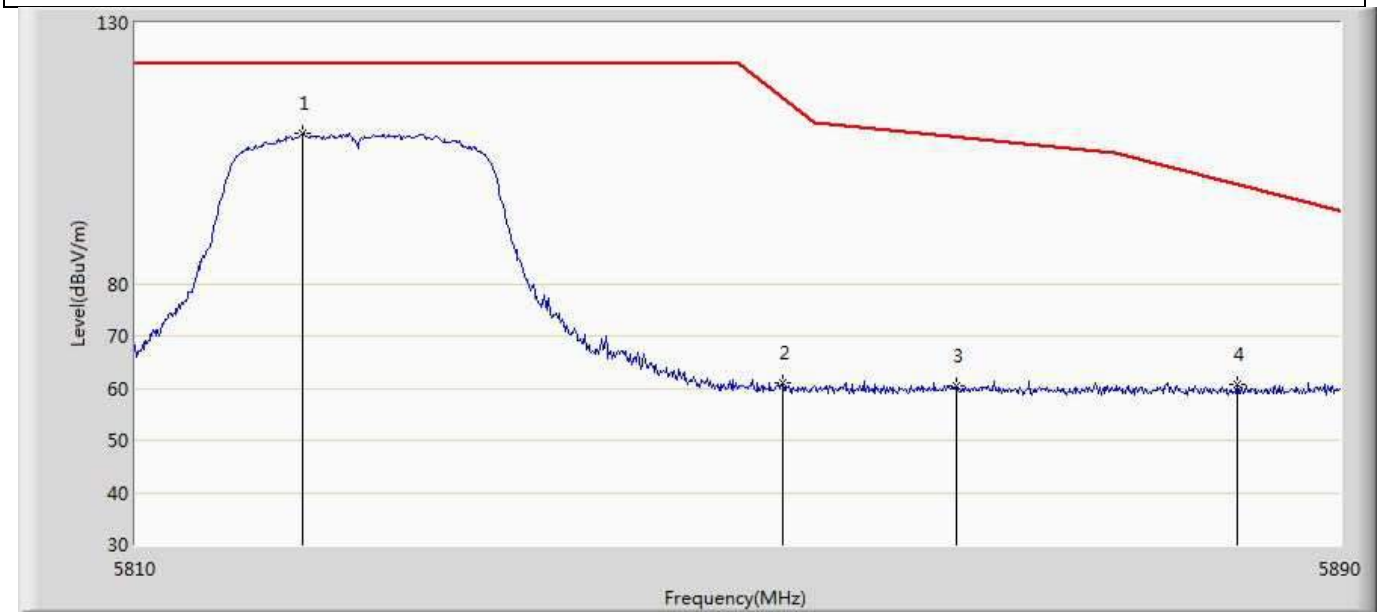
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5821.040	108.708	70.330	-13.492	122.200	38.378	PK
2		5854.240	61.501	23.080	-51.032	112.532	38.421	PK
3		5863.840	59.473	21.038	-48.849	108.322	38.436	PK
4		5880.240	59.516	21.051	-41.791	101.308	38.466	PK

Profile: 2090075R	Page No.: 14
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/20 - 10:24
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 2:Transmint at 5825MHz by 802.11n(20MHz)	



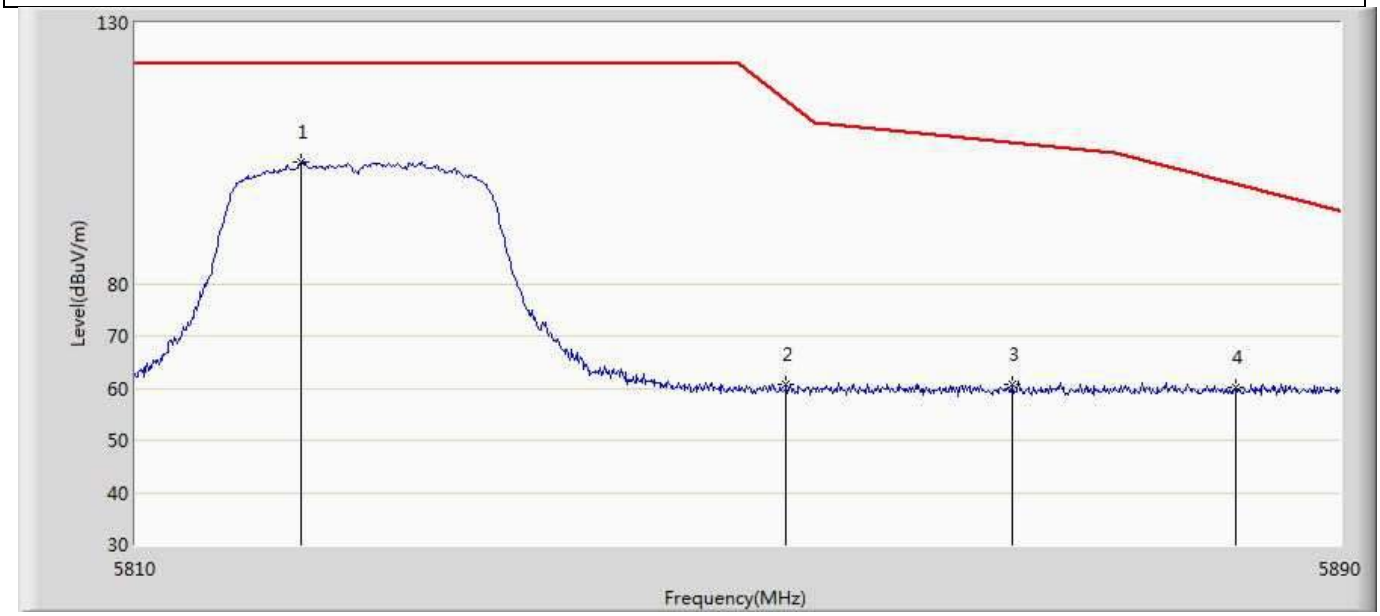
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5821.200	108.748	70.370	-13.452	122.200	38.378	PK
2		5852.480	60.703	22.285	-55.841	116.544	38.418	PK
3		5864.640	60.876	22.439	-47.223	108.098	38.437	PK
4		5882.080	60.504	22.035	-39.438	99.942	38.469	PK

Profile: 2090075R	Page No.: 15
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/20 - 10:25
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 4:Transmint at 5825MHz by 802.11ac(20MHz)	



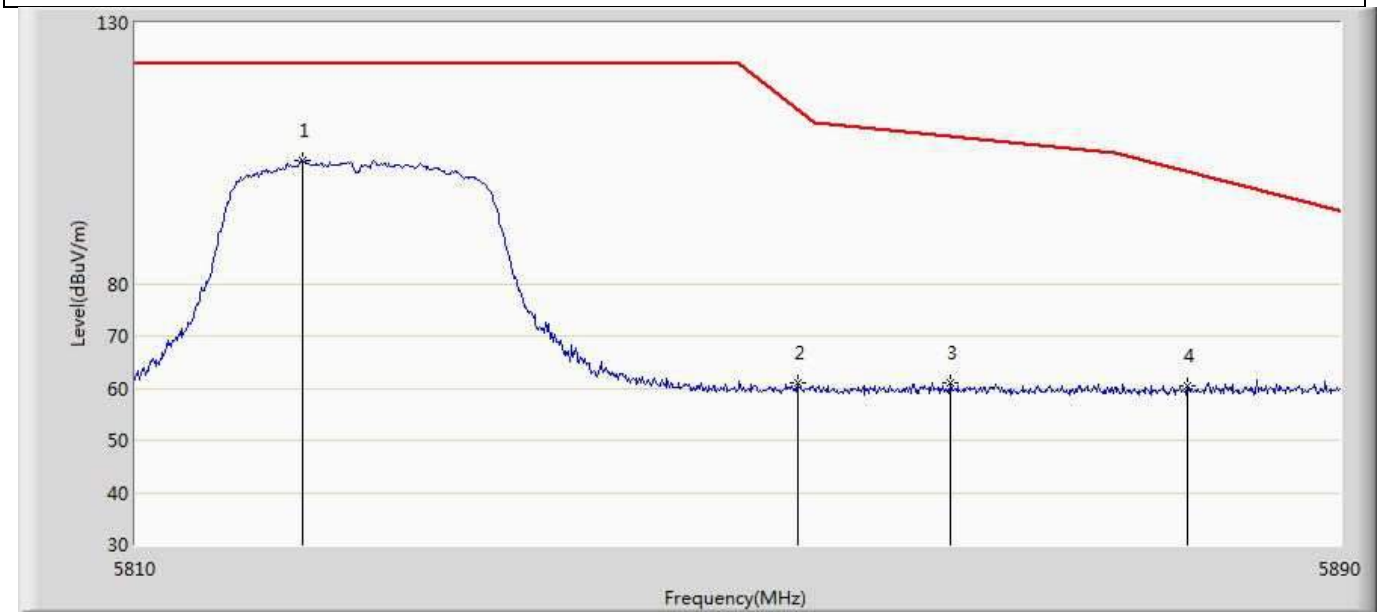
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5821.040	108.944	70.566	-13.256	122.200	38.378	PK
2		5852.880	60.954	22.535	-54.679	115.632	38.418	PK
3		5864.400	60.327	21.891	-47.838	108.166	38.436	PK
4		5883.120	60.666	22.195	-38.504	99.170	38.471	PK

Profile: 2090075R	Page No.: 16
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/20 - 10:26
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 1:Transmint at 5825MHz by 802.11a	



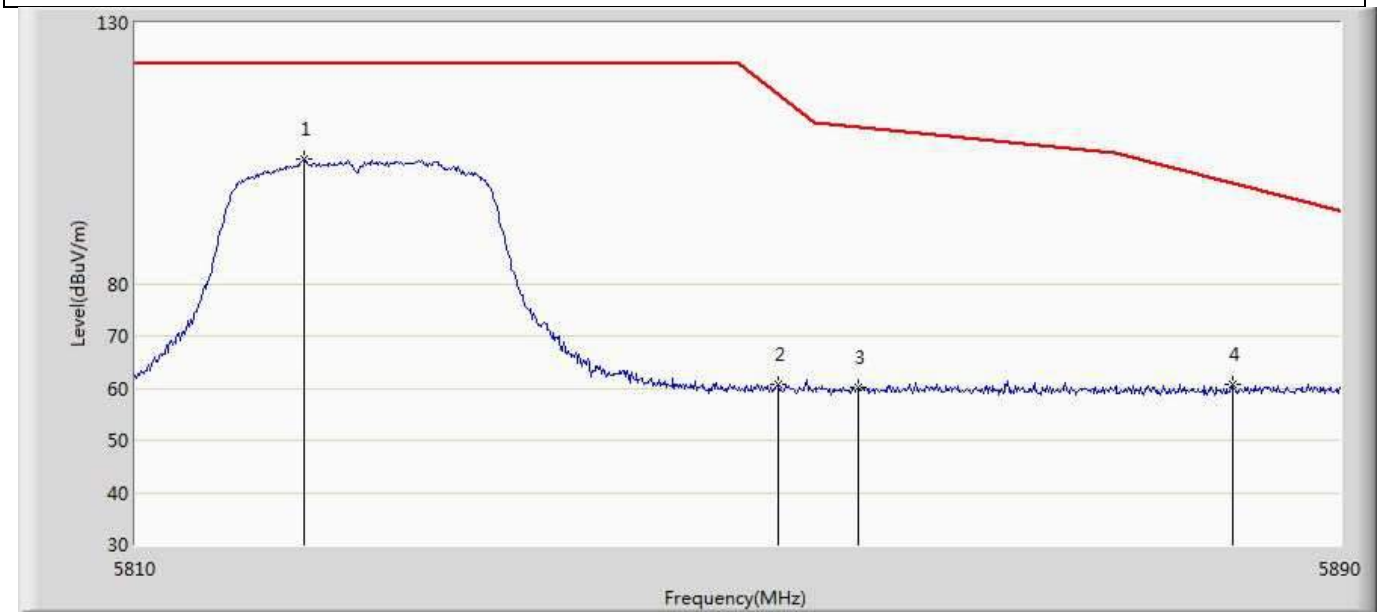
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5820.960	103.248	64.870	-18.952	122.200	38.378	PK
2		5853.120	60.628	22.209	-54.457	115.085	38.418	PK
3		5868.160	60.797	22.354	-46.316	107.113	38.444	PK
4		5883.040	60.060	21.589	-39.169	99.229	38.470	PK

Profile: 2090075R	Page No.: 17
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/20 - 10:28
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 2:Transmint at 5825MHz by 802.11n(20MHz)	



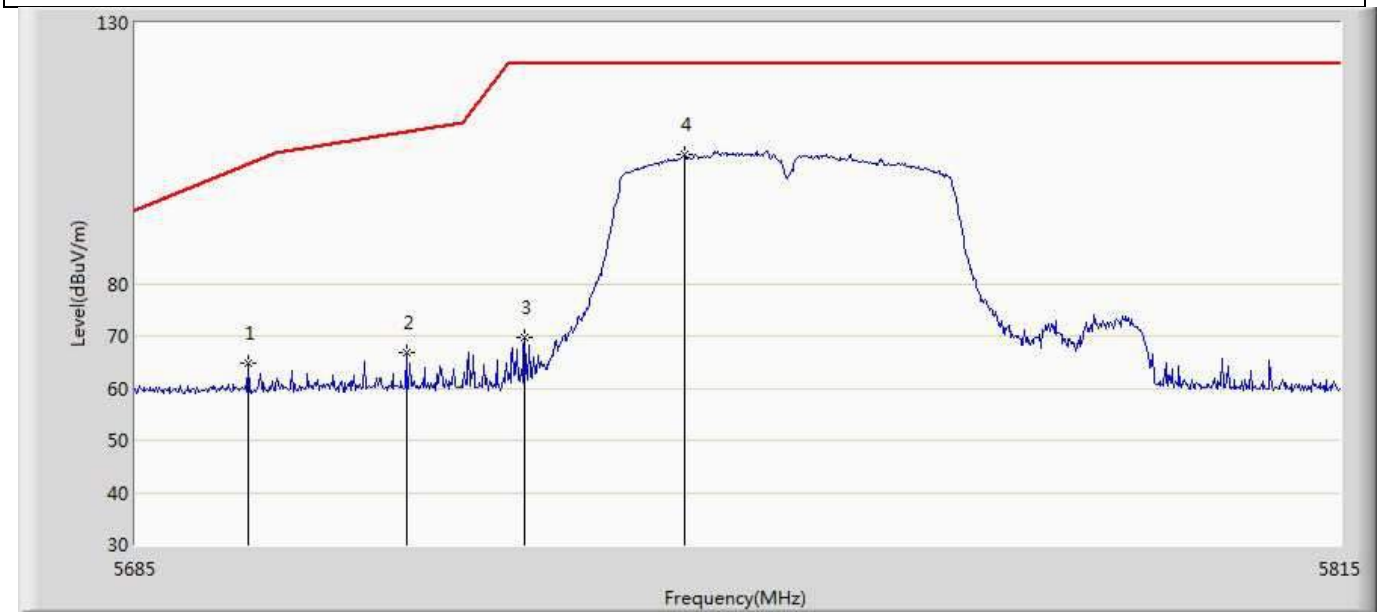
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5821.040	103.765	65.387	-18.435	122.200	38.378	PK
2		5853.840	61.011	22.591	-52.433	113.444	38.420	PK
3		5864.000	60.975	22.539	-47.303	108.278	38.436	PK
4		5879.840	60.357	21.892	-41.248	101.605	38.464	PK

Profile: 2090075R	Page No.: 18
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/20 - 10:29
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 4:Transmint at 5825MHz by 802.11ac(20MHz)	



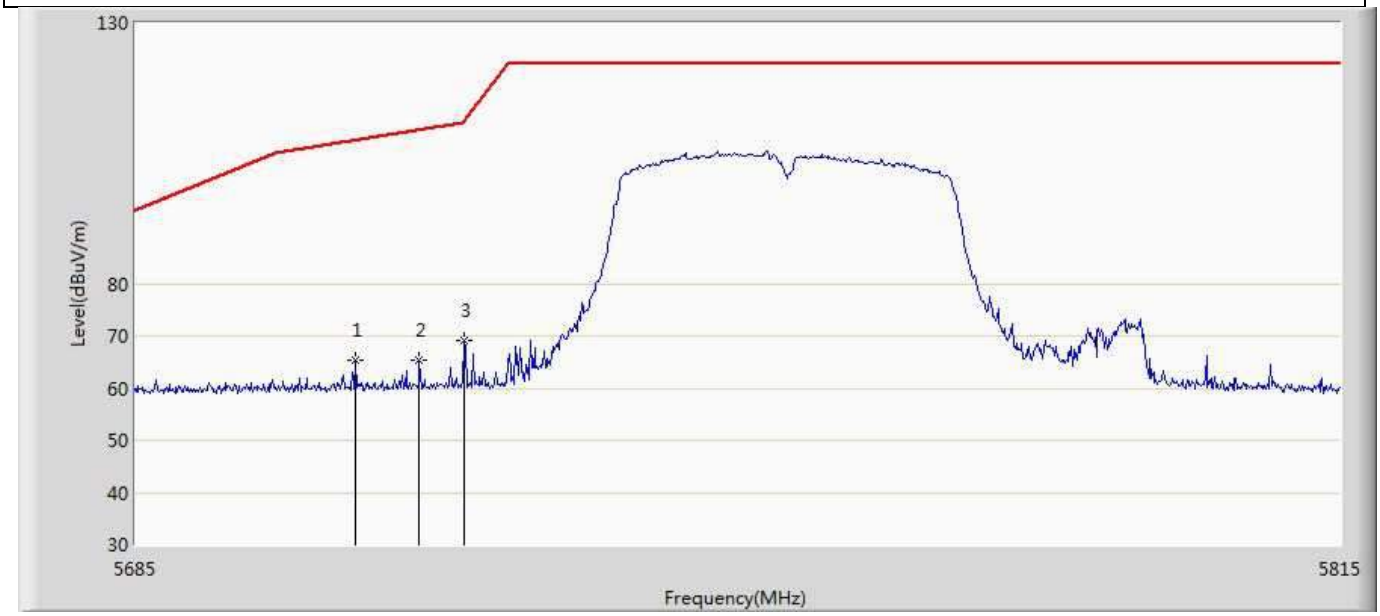
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5821.200	104.015	65.637	-18.185	122.200	38.378	PK
2		5852.560	60.681	22.263	-55.681	116.362	38.418	PK
3		5857.840	60.213	21.787	-49.791	110.004	38.426	PK
4		5882.800	60.789	22.319	-38.618	99.407	38.470	PK

Profile: 2090075R	Page No.: 19
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/20 - 10:30
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 3:Transmint at 5755MHz by 802.11n(40MHz)	



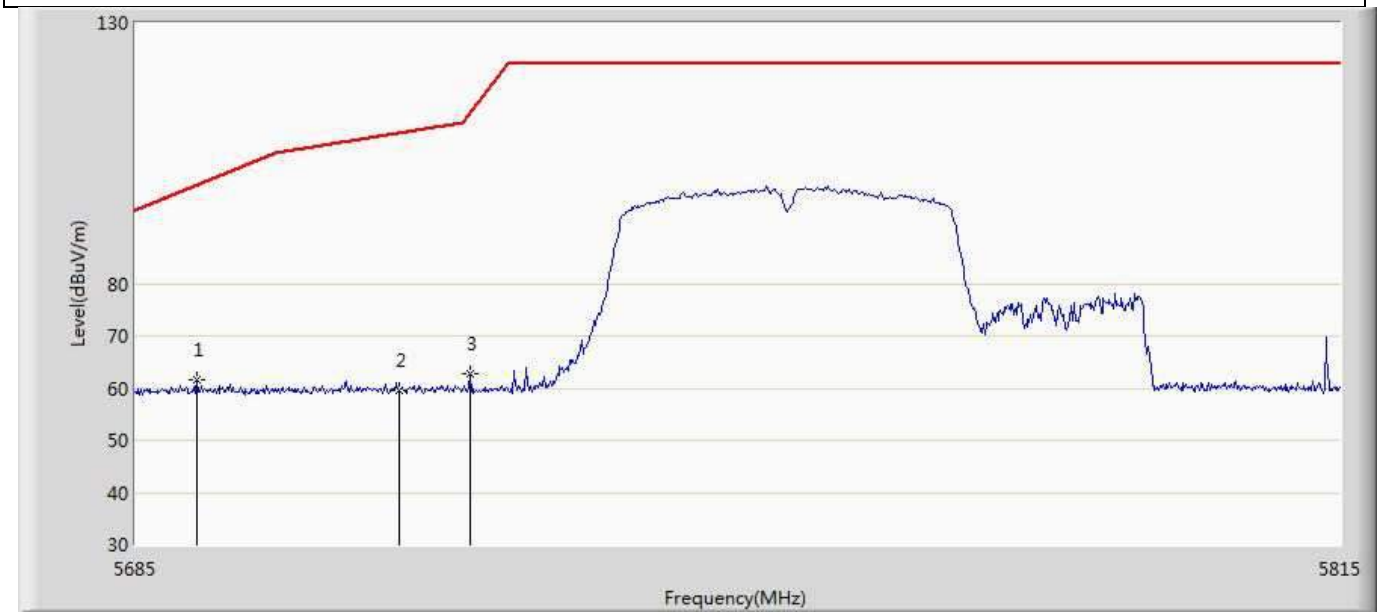
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5697.090	64.923	26.763	-38.133	103.056	38.160	PK
2		5713.990	66.667	28.483	-42.452	109.119	38.185	PK
3		5726.730	69.769	31.567	-52.431	122.200	38.202	PK
4	*	5743.890	104.809	66.569	-17.391	122.200	38.240	PK

Profile: 2090075R	Page No.: 20
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/20 - 10:33
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 5:Transmint at 5755MHz by 802.11ac(40MHz)	



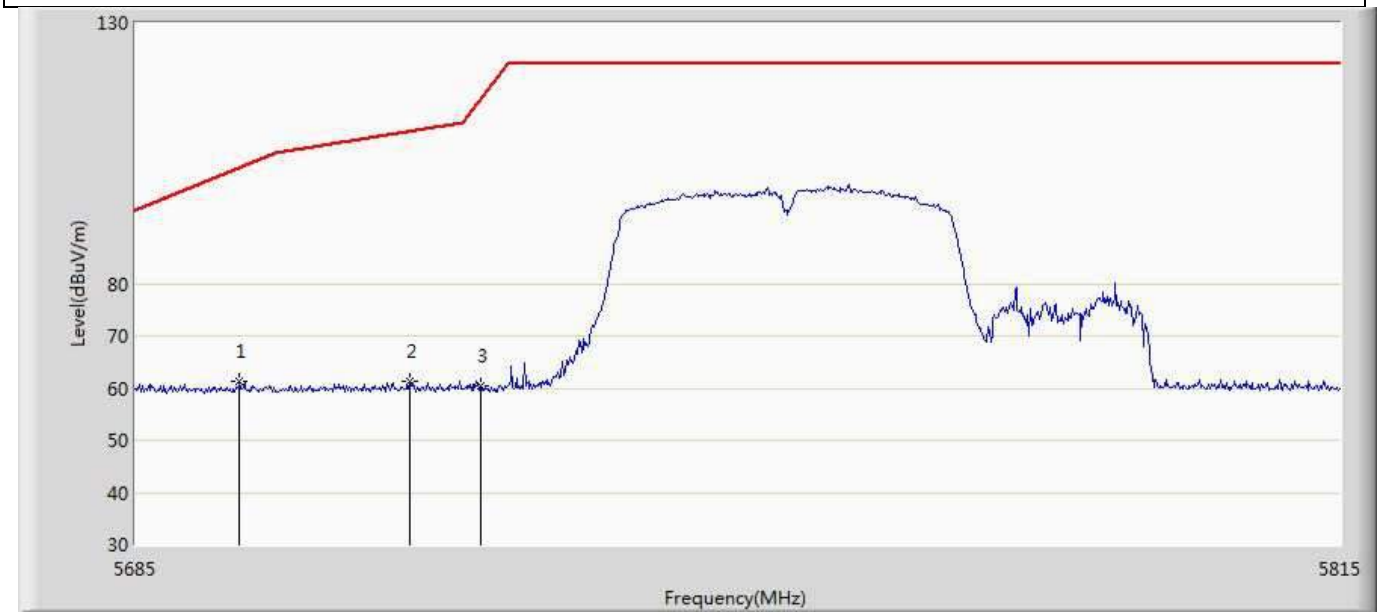
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5708.530	65.473	27.296	-42.118	107.591	38.177	PK
2		5715.420	65.245	27.059	-44.274	109.519	38.187	PK
3		5720.230	69.056	30.863	-42.269	111.325	38.192	PK

Profile: 2090075R	Page No.: 21
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/20 - 10:35
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 3:Transmint at 5755MHz by 802.11n(40MHz)	



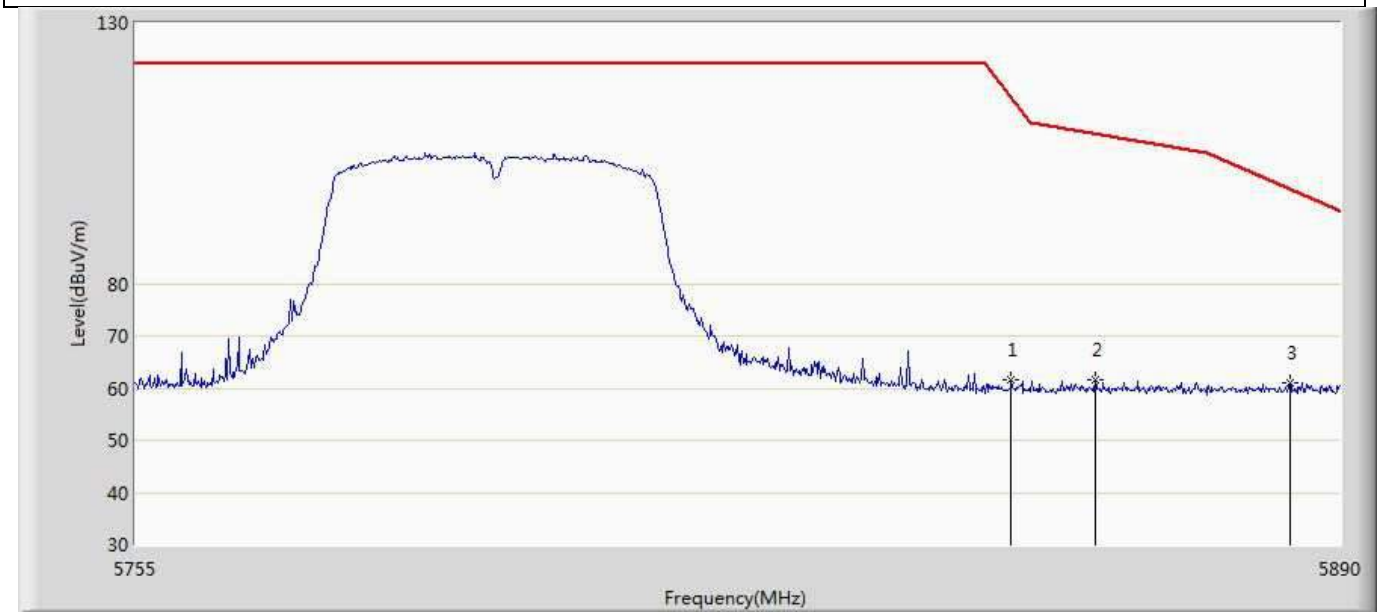
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5691.630	61.483	23.332	-37.546	99.029	38.151	PK
2		5713.210	59.637	21.454	-49.264	108.901	38.184	PK
3		5720.880	62.783	24.590	-50.024	112.807	38.193	PK

Profile: 2090075R	Page No.: 22
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/20 - 10:37
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 5:Transmint at 5755MHz by 802.11ac(40MHz)	



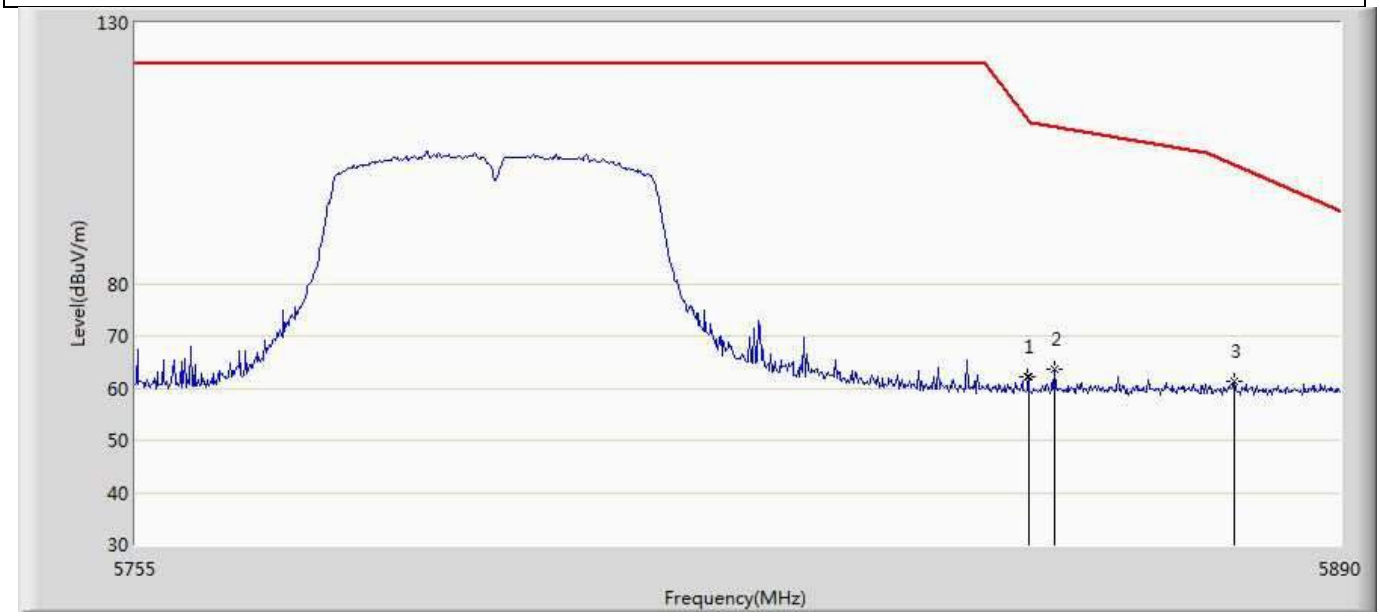
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5696.180	61.288	23.130	-41.096	102.385	38.158	PK
2		5714.380	61.187	23.002	-48.041	109.228	38.185	PK
3		5722.050	60.348	22.153	-55.127	115.475	38.195	PK

Profile: 2090075R	Page No.: 23
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/20 - 10:40
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 3:Transmint at 5795MHz by 802.11n(40MHz)	



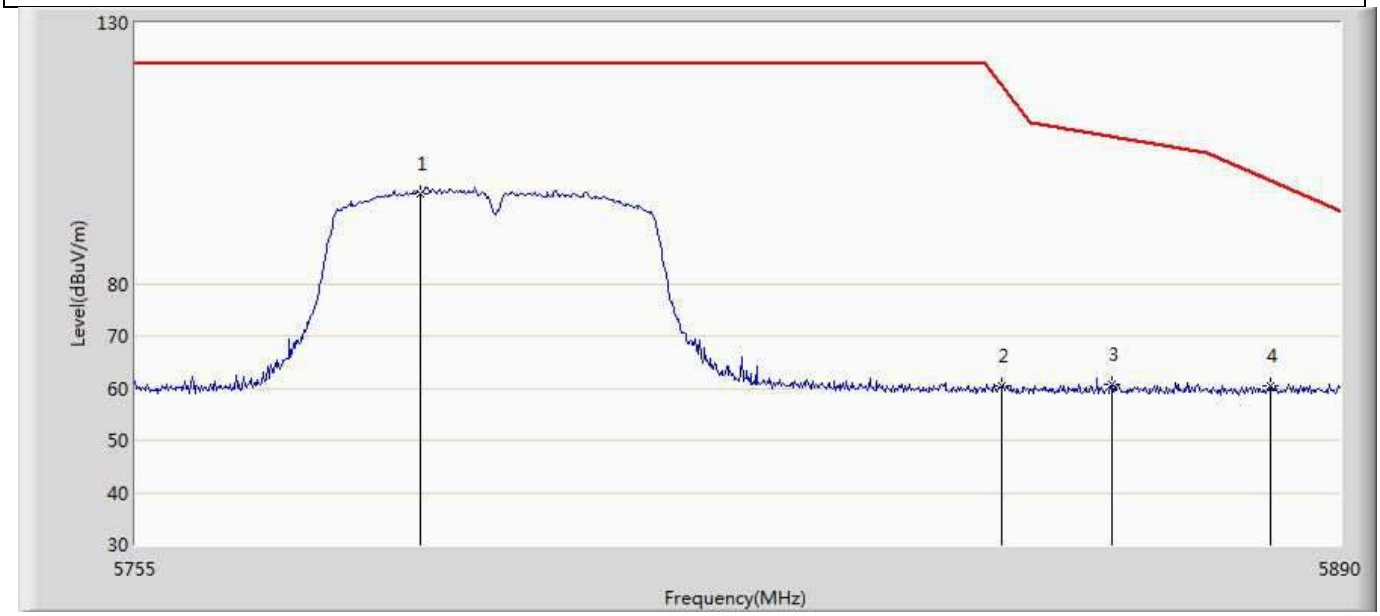
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5852.875	61.660	23.241	-53.984	115.644	38.418	PK
2		5862.325	61.615	23.182	-47.132	108.747	38.432	PK
3	*	5884.330	61.156	22.683	-37.116	98.272	38.473	PK

Profile: 2090075R	Page No.: 24
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/20 - 10:42
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 5:Transmint at 5795MHz by 802.11ac(40MHz)	



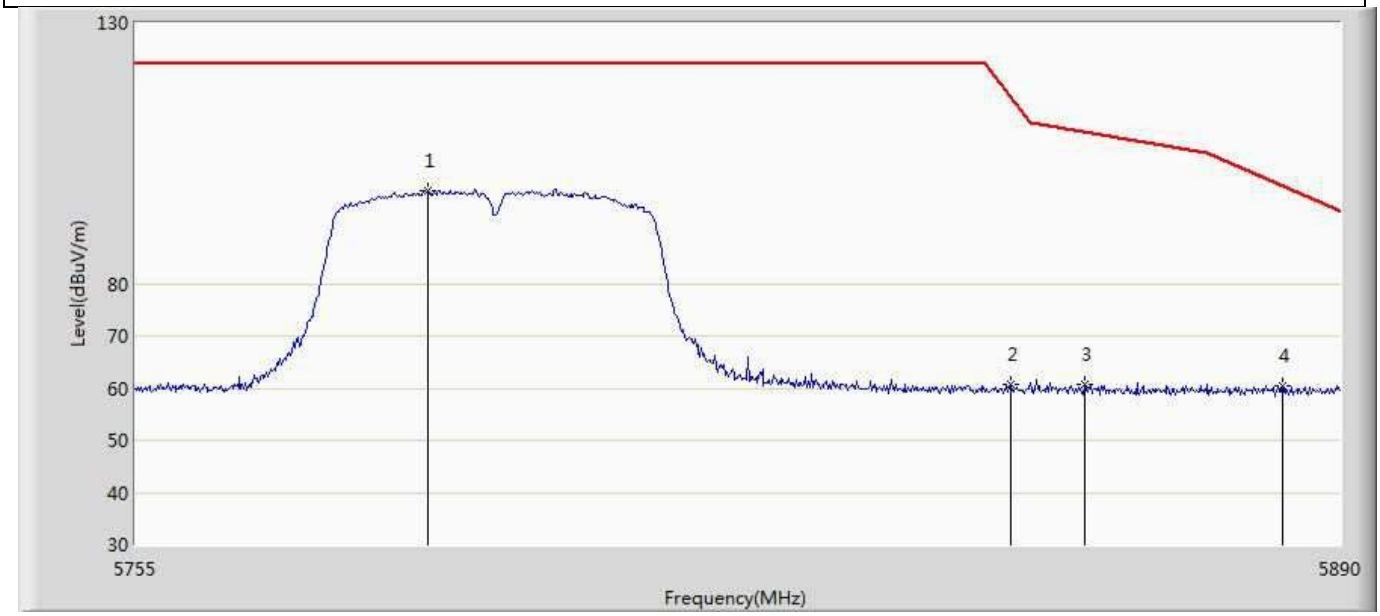
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5854.765	62.091	23.670	-49.244	111.336	38.422	PK
2		5857.735	63.711	25.285	-46.322	110.033	38.426	PK
3	*	5877.985	61.275	22.814	-41.707	102.982	38.462	PK

Profile: 2090075R	Page No.: 25
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/20 - 10:44
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 3:Transmint at 5795MHz by 802.11n(40MHz)	



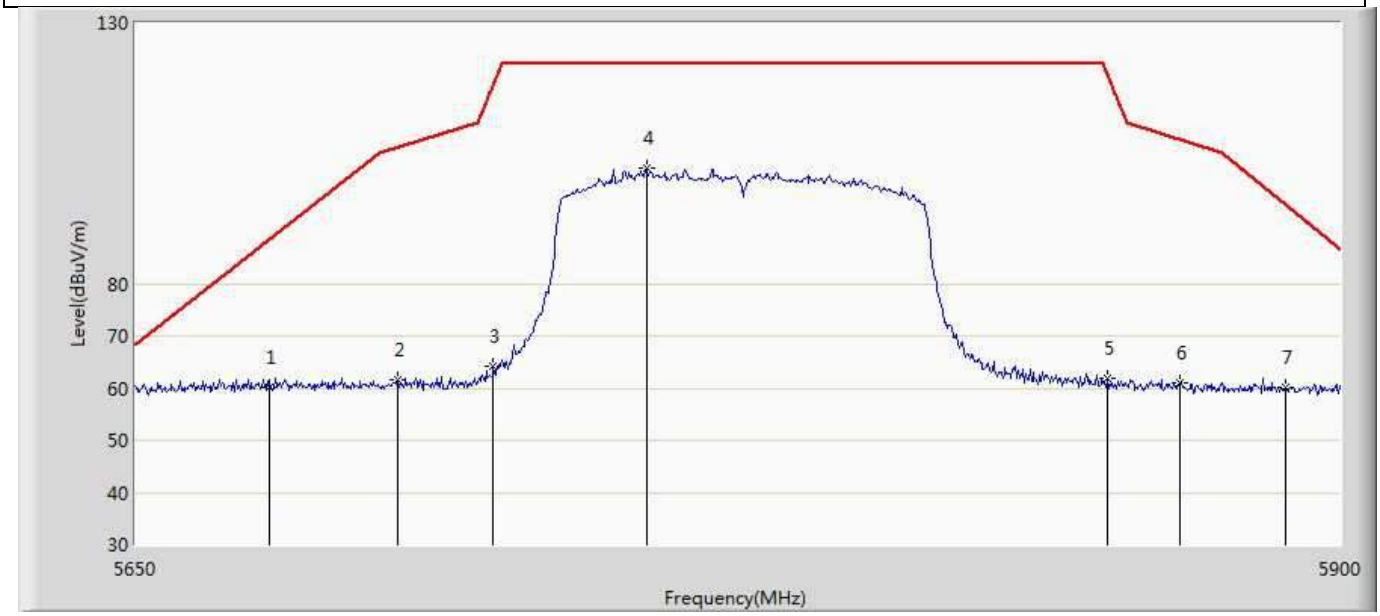
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5786.725	97.335	59.024	-24.865	122.200	38.311	PK
2		5851.795	60.363	21.946	-57.743	118.106	38.417	PK
3		5864.215	60.834	22.398	-47.383	108.217	38.436	PK
4		5882.170	60.520	22.051	-39.355	99.875	38.469	PK

Profile: 2090075R	Page No.: 26
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/20 - 10:45
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 5:Transmint at 5795MHz by 802.11ac(40MHz)	



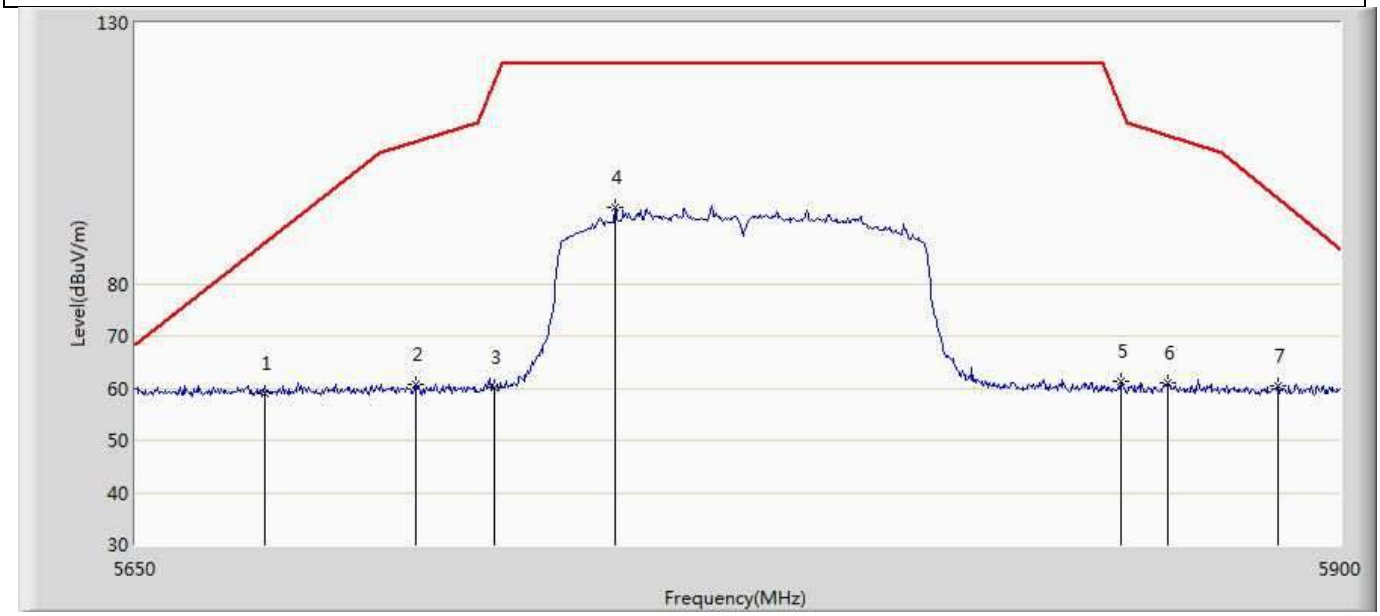
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5787.535	97.903	59.591	-24.297	122.200	38.312	PK
2		5852.740	60.591	22.173	-55.360	115.952	38.418	PK
3		5861.110	60.614	22.183	-48.473	109.087	38.431	PK
4		5883.520	60.315	21.843	-38.558	98.873	38.472	PK

Profile: 2090075R	Page No.: 27
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/20 - 10:47
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 6:Transmint at 5775MHz by 802.11ac(80MHz)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5677.500	60.229	22.106	-28.361	88.590	38.123	PK
2		5703.500	61.674	23.504	-44.508	106.181	38.169	PK
3		5723.250	64.160	25.964	-54.051	118.211	38.196	PK
4	*	5754.750	102.052	63.788	-20.148	122.200	38.264	PK
5		5851.000	61.869	23.453	-58.050	119.919	38.415	PK
6		5866.250	61.156	22.716	-46.492	107.648	38.440	PK
7		5888.500	60.016	21.535	-35.163	95.179	38.482	PK

Profile: 2090075R	Page No.: 28
Engineer: Yingfei.Wang	
Site: AC5	Time: 2020/08/20 - 10:49
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 6:Transmint at 5775MHz by 802.11ac(80MHz)	



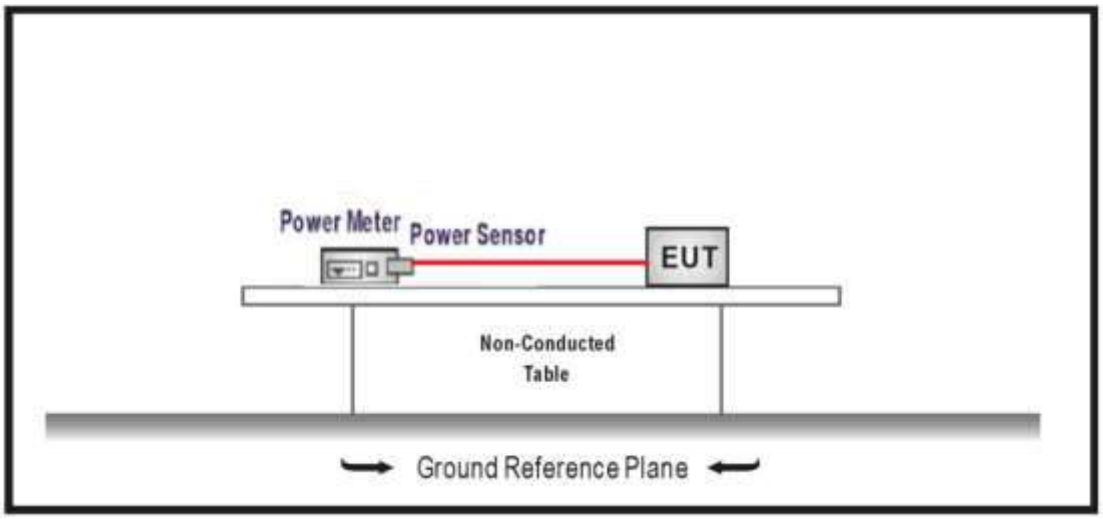
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5676.500	59.113	20.992	-28.738	87.851	38.121	PK
2		5707.250	60.762	22.587	-46.470	107.232	38.176	PK
3		5723.500	60.139	21.942	-58.642	118.781	38.197	PK
4	*	5748.250	94.759	56.510	-27.441	122.200	38.249	PK
5		5853.750	61.198	22.778	-52.451	113.649	38.420	PK
6		5863.500	60.999	22.564	-47.419	108.418	38.435	PK
7		5887.000	60.411	21.932	-35.881	96.291	38.479	PK

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

4.8 Frequency Stability	VERDICT: PASS

4.8.1 Limit:	
Standard	FCC Part 15 Subpart C Paragraph 15.407
☒	In-band emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.
Standard	IEEE Std. 802.11n-2009
☒	The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band and ± 25ppm maximum for the 2.4 GHz band.

4.8.2 Test Setup



4.8.3 Test Procedure

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

4.8.4 Test Date

Test Result Frequency Stability under Temperature at 0min

Temperature Interval (℃)	Test Frequency (MHz)	Deviation (Hz)	ppm	Limit
-30	5220.000	49	0.0094	±20
-20	5220.000	-57	-0.0109	±20
-10	5220.000	63	0.0121	±20
0	5220.000	149	0.0285	±20
10	5220.000	58	0.0111	±20
20	5220.000	96	0.0184	±20
30	5220.000	65	0.0125	±20
40	5220.000	165	0.0316	±20
50	5220.000	89	0.0170	±20

Frequency Stability under Temperature at 2min

Temperature Interval (℃)	Test Frequency (MHz)	Deviation (Hz)	ppm	Limit
-30	5220.000	63	0.0121	±20
-20	5220.000	-20	-0.0038	±20
-10	5220.000	116	0.0222	±20
0	5220.000	86	0.0165	±20
10	5220.000	149	0.0285	±20
20	5220.000	186	0.0356	±20
30	5220.000	94	0.0180	±20
40	5220.000	217	0.0416	±20
50	5220.000	108	0.0207	±20

Frequency Stability under Temperature at 5min

Temperature Interval (℃)	Test Frequency (MHz)	Deviation (Hz)	ppm	Limit
-30	5220.000	-46	-0.0088	±20
-20	5220.000	18	0.0034	±20
-10	5220.000	-27	-0.0052	±20
0	5220.000	166	0.0318	±20
10	5220.000	243	0.0466	±20
20	5220.000	169	0.0324	±20
30	5220.000	-2	-0.0004	±20
40	5220.000	95	0.0182	±20
50	5220.000	168	0.0322	±20

Frequency Stability under Temperature at 10min

Temperature Interval (℃)	Test Frequency (MHz)	Deviation (Hz)	ppm	Limit
-30	5220.000	35	0.0067	±20
-20	5220.000	156	0.0299	±20
-10	5220.000	67	0.0128	±20
0	5220.000	183	0.0351	±20
10	5220.000	105	0.0201	±20
20	5220.000	-38	-0.0073	±20
30	5220.000	216	0.0414	±20
40	5220.000	114	0.0218	±20
50	5220.000	208	0.0398	±20

4.9 Antenna Requirement	VERDICT: PASS

4.9.1 Limit:	
Standard	FCC Part 15 Subpart C Paragraph 15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221.

Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

4.9.2 Antenna Connector Construction:	
☒	The use of a permanently attached antenna
☐	The antenna use of a unique coupling to the intentional radiator
☐	The use of a nonstandard antenna jack or electrical connector

Please refer to the attached document "Internal Photograph" to show the antenna connector.

4.10 Test setup photo and EUT Photo	VERDICT: PASS

Remark: The test setup photo and EUT Photo please see appendix.

The End