Test Report

FCC Part15 Subpart E

Product Name	:	Kasa Cam
Model No.	:	KC120
FCC ID	:	TE7KC120

Applicant	:	TP-Link Technologies Co., Ltd.
Address	:	Building 24(floors1,3,4,5) and 28(floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China

Date of Receipt	:	Feb. 10, 2017
Test Date	:	Feb. 10, 2017~ Apr. 25, 2017
Issued Date	:	Sep. 13, 2017
Report No.	:	1722031R-RF-US-P09V01
Report Version	:	V1.1

Test Report Certification

Issued Date : Sep. 13, 2017
Report No. : 1722031R-RF-US-P09V01

Product Name	:	Kasa Cam
Applicant	:	TP-Link Technologies Co., Ltd.
Address	:	Building 24(floors1,3,4,5) and 28(floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China
Manufacturer	:	TP-Link Technologies Co., Ltd.
Address	:	Building 24(floors1,3,4,5) and 28(floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China
Model No.	:	KC120
FCC ID	:	TE7KC120
EUT Voltage	:	DC 5V,1A
Brand Name	:	tp-link
Applicable Standard	:	FCC CFR Title 47 Part 15 Subpart E ANSI C63.4:2014; ANSI C63.10:2013; 789033 D02 General UNII Test Procedures New Rules v01r04
Test Result	:	Complied
Performed Location	:	DEKRA Testing and Certification (Suzhou) Co., Ltd. No.99 Hongye Rd., Suzhou Industrial Park, Suzhou,215006, Jiangsu, China TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098 FCC Registration Number: CN1199;

Documented By : Kitty Li

(Adm. Specialist: Kitty Li)

Reviewed By : Jack Zhang

(Senior Engineer: Jack Zhang)

Approved By : Harry Zhao

(Engineering Manager: Harry Zhao)

TABLE OF CONTENTS

History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
1722031R-RF-US-P09V01	V1.0	Initial Issued Report	Jul. 14, 2017
1722031R-RF-US-P09V01	V1.1	Added all channels bandedge data of different power.	Sep. 13, 2017

1. General Information

1.1. EUT Description

Product Name	Kasa Cam						
Brand Name	tp-link						
Model No.	KC120						
EUT Voltage	DC 5V,1A						
Type of Modulation	OFDM						
Data Rate	802.11a: 6/9/12/18/24/36/48/54Mbps						
	802.11n: up to 150Mbps						
	802.11ac: up to 433Mbps						
Channel Control	Auto						
Transmit modes	☒	802.11a	☒	802.11n(20MHz)	☒	802.11n(40MHz)	
	☒	802.11ac(20MHz)	☒	802.11ac(40MHz)	☒	802.11ac(80MHz)	
Support Bands	☒	5150MHz~5250MHz	☐	Outdoor AP			
			☐	Indoor AP			
			☐	Fixed point-to-point AP			
			☒	Mobile and Portable Client			
	☒	5250MHz~5350MHz					
	☒	5470MHz~5725MHz	☒	With TDWR Channels			
			☐	Without TDWR Channels			
	☒	5725MHz~5850MHz					

1.2. Antenna information

Antenna Model No.	N/A						
Antenna Manufacturer	TP-Link						
Antenna Delivery	☒	1*TX+1*RX	☐	2*TX+2*RX	☐	3*TX+4*RX	
Antenna Technology	☒	SISO					
	☐	MIMO	☐	Basic methodology with NANT transmit antennas			
			☐	Sectorized antenna systems			
			☐	Cross-polarized antennas			
			☐	Unequal antenna gains, with equal transmit powers			
			☐	Spatial Multiplexing			
			☐	Cyclic Delay Diversity (CDD)			
Antenna Type	PIFA Antenna						

Antenna Gain	
Antenna Technology	Ant Gain (dBi)
☒ SISO	Ant1: 4.77

1.3. Working Frequency of Each Channel:

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	5600 MHz	124	5620 MHz	128	5640 MHz
132	5660 MHz	136	5680 MHz	140	5700 MHz	N/A	N/A
149	5745 MHz	153	5765 MHz	157	5785 MHz	161	5805 MHz
165	5825MHz	N/A	N/A	N/A	N/A	N/A	N/A
802.11n/ac(40MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz	54	5270 MHz	62	5310 MHz
102	5510 MHz	110	5550 MHz	118	5590 MHz	126	5630 MHz
134	5670 MHz	151	5755 MHz	159	5795 MHz	N/A	N/A
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
155	5775 MHz	N/A	N/A	N/A	N/A	N/A	N/A

1.4. Mode of Operation

DEKRA Testing and Certification (Suzhou) Co., Ltd. has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

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)

Note 1: Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

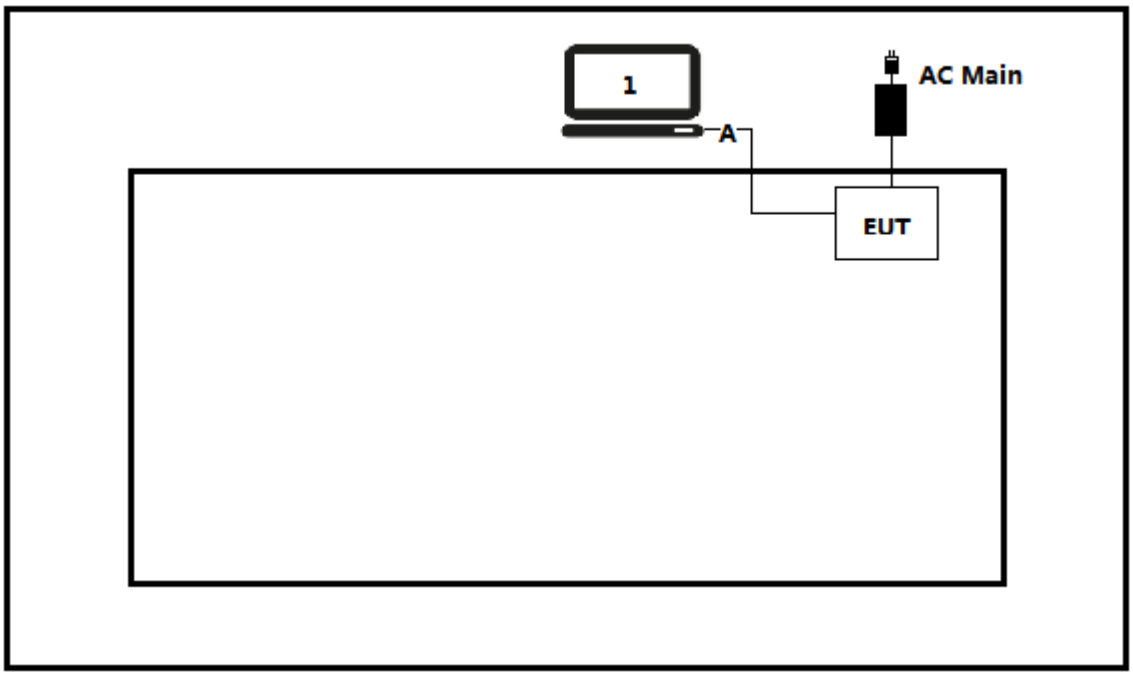
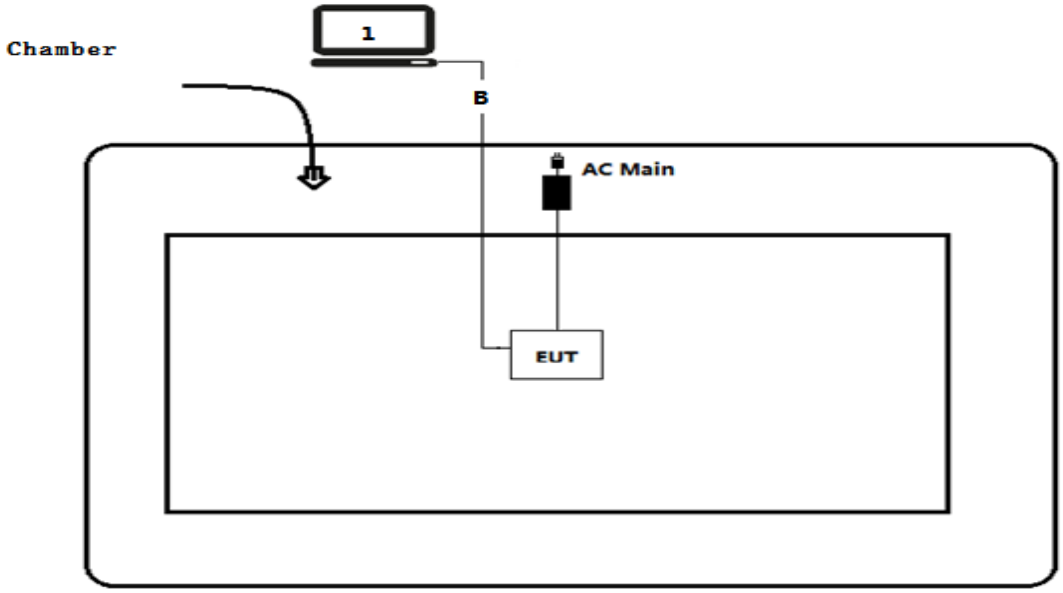
Note 2: For portable device, radiated tests was verified over X, Y, Z axis, and shown the worst case on this report.

1.5. Tested System Details

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

Product		Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook	Lenovo	Think pad x220	SUA0600195	Non-shielded

1.6. Configuration of Tested System

Connection Diagram



Signal Cable Type		Signal cable Description
A	USB Cable	shielded, 15m
B	USB Cable	shielded, 15m

1.7. EUT Exercise Software

1	Setup the EUT and simulators as shown on above.
2	Turn on the power of equipment.
3	Input RF commands, and set the test mode and channel, then press OK to start to continue transmit or receive.

2. Technical Test

2.1. Summary of Test Result

☒ No deviations from the test standards

☐ Deviations from the test standards as below description:

Performed Test Item	Normative References	Worse case mode	Limit	Result
Conducted Emission	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.207	802.11a	FCC 15.207	PASS
Radiated Emission	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.209	802.11a	FCC 15.209	PASS
Emission bandwidth and occupied bandwidth	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.407(a)	802.11n(20MHz)	FCC 15.407(e)	PASS
6dB Emission Bandwidth	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.407(a)	802.11a	FCC 15.407(e)	PASS
Power Output	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.407(a)	802.11ac(20MHz)	FCC 15.407(a)	PASS
Peak Power Spectral Density	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.407(a)	802.11ac(20MHz)	FCC 15.407(a)	PASS
Radiated Emission Band Edge	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.205, 15.407(b)	802.11ac(20MHz)	FCC 15.407(b)	PASS
Frequency Stability	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.407(g)	5220MHz	Within the band	PASS

2.2. Test Frequency configuration:

Modulation Mode	Channel	Frequency	Channel	Frequency	Channel	Frequency
802.11a/n(20MHz) /ac(20MHz)	36	5180MHz	40	5200MHz	48	5240MHz
	52	5260MHz	60	5300MHz	64	5320MHz
	100	5500MHz	116	5580MHz	132	5700MHz
	149	5745MHz	157	5785MHz	165	5825MHz
802.11n(40MHz)/ ac(40MHz)	38	5190MHz	46	5230MHz	54	5270MHz
	62	5310MHz	102	5510MHz	110	5550MHz
	134	5670MHz	151	5755MHz	159	5795MHz
802.11ac(80MHz)	42	5210MHz	58	5290MHz	106	5530MHz
	155	5775MHz	N/A	N/A	N/A	N/A

2.3. Power Parameter Value of the test software

Test Mode	Frequency	Power Setting
		Ant 1
802.11a	5180	1E
	5200	26
	5220	31
	5240	31
	5260	2D
	5300	28
	5320	1D
	5500	20
	5520	2C
	5580	2A
	5700	31
	5745	2C
	5785	2C
	5825	2C
802.11n(20MHz)	5180	1E
	5200	26
	5220	31
	5240	31
	5260	2E
	5300	28
	5320	1D
	5500	20
	5520	2C
	5580	2A
	5700	31
	5745	2C
	5785	2C
	5825	2C

802.11ac(20MHz)	5180	1E
	5200	26
	5220	31
	5240	31
	5260	2E
	5300	28
	5320	1D
	5500	20
	5520	2C
	5580	2A
	5700	31
	5745	2C
	5785	2C
	5825	2C
802.11n(40MHz)	5190	19
	5230	20
	5270	20
	5310	18
	5510	1A
	5550	20
	5670	31
	5755	29
	5795	2C
802.11ac(40MHz)	5190	19
	5230	20
	5270	20
	5310	18
	5510	1A
	5550	21
	5670	31
	5755	29
	5795	2C
802.11ac(80MHz)	5210	14
	5290	13
	5530	12
	5775	1D

2.4. Power vs Data Rate

MCS Index for 802.11n	Spatial Streams	Data Rate (Mbps)						
		802.11b	802.11g	802.11a	20MHz Bandwidth		40MHz Bandwidth	
					800ns GI	400ns GI	800ns GI	400ns GI
0	1	1	6	6	6.5	7.2	13.5	15.0
1	1	2	9	9	13.0	14.4	27.0	30.0
2	1	5.5	12	12	19.5	21.7	40.5	45.0
3	1	11	18	18	26.0	28.9	54.0	60.0
4	1	---	24	24	39.0	43.3	81.0	90.0
5	1	---	36	36	52.0	57.8	108.0	120.0
6	1	---	48	48	58.5	65.0	121.5	135.0
7	1	---	54	54	65.0	72.2	135.0	150.0
Note 1 : The blue form is the maximum power data rate								

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.

2.5. Duty Cycle

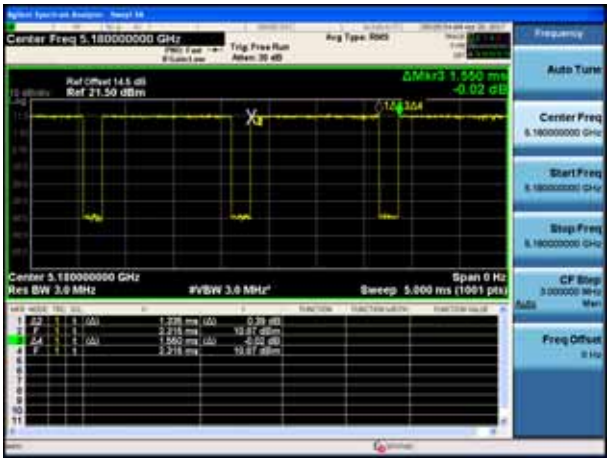
Test Mode	Tx On (ms)	Tx Off (ms)	VBW	Tx On + Tx Off (ms)	Duty Cycle
802.11a	1.420	0.22	750Hz	1.640	86.59%
802.11 n(20MHz)	1.335	0.215	750Hz	1.550	86.13%
802.11ac(20MHz)	1.355	0.205	750Hz	1.560	86.86%
802.11n(40MHz)	0.662	0.206	1.6KHz	0.868	76.27%
802.11ac(40MHz)	0.672	0.206	1.5KHz	0.878	76.54%
802.11ac(80MHz)	0.332	0.204	3.3KHz	0.536	61.94%

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, VBW ≥ 1/T will be used.

802.11a

802.11n(20MHz)



802.11n(40MHz)

802.11ac(20MHz)

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

2.6. Test Environment

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

2.7. Uncertainty

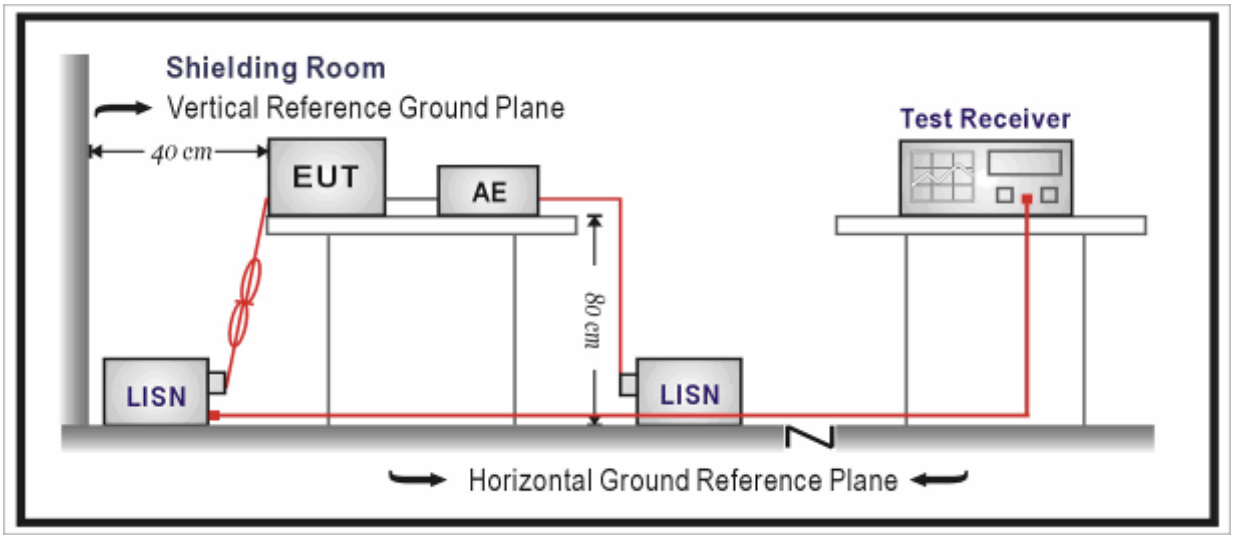
Test Items	Uncertainty
AC Power Line Conducted Emission	±2.02dB
Radiated Emission	Below 1GHz ±3.8 dB
	Above 1GHz ±3.9 dB
RF Antenna Port Conducted Emission	±1.27dB
Radiated Emission Band Edge	±3.9dB
Occupied Bandwidth	±1kHz
Power Spectral Density	±1.27dB
Frequency Stability	± 100 Hz

3. Conducted Emission

3.1. Test Equipment

Conducted Emission / TR-1					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100906	2017.03.05	2018.03.04
Two-Line V-Network	R&S	ENV 216	101189	2016.06.16	2017.06.15
Two-Line V-Network	R&S	ENV 216	101044	2016.09.16	2017.09.15
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	N/A	N/A
50ohm Termination	SHX	TF2	07081402	2016.09.16	2017.09.15
Temperature/Humidity Meter	Zhichen	ZC1-2	TR1-TH	2017.01.05	2018.01.04
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

3.2. Test Setup



3.3. Limit

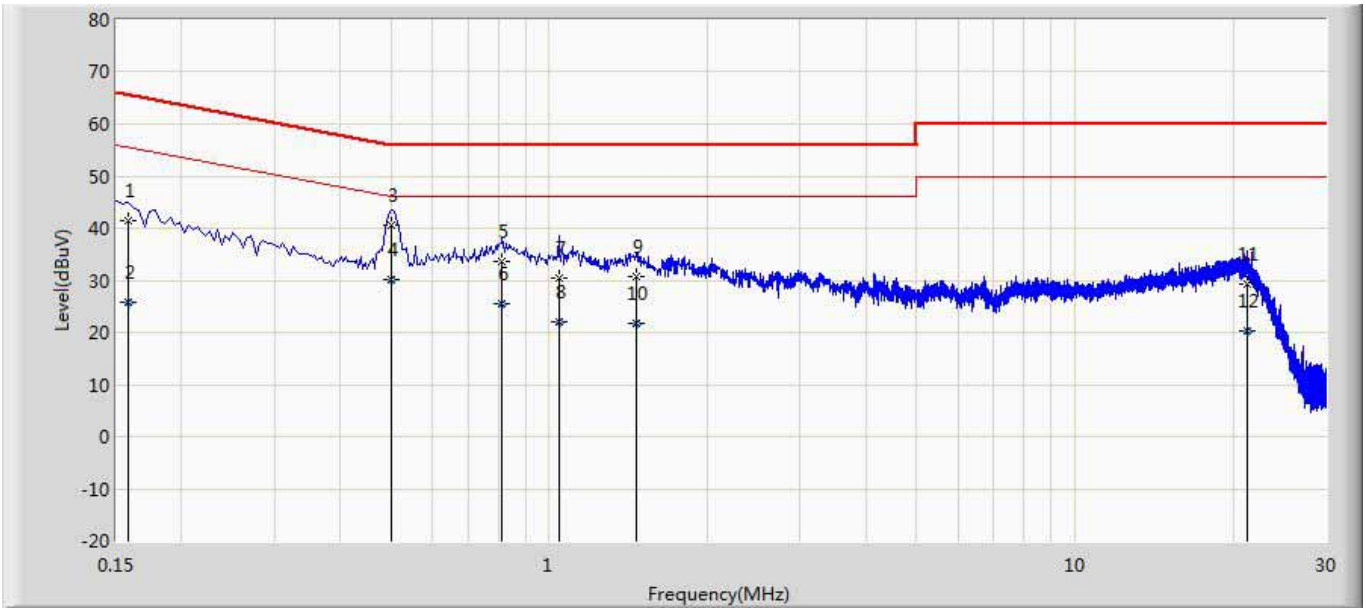
Frequency (MHz)	QP (dBμV)	AV (dBμV)
0.15 - 0.50	66 – 56	56 – 46
0.50 - 5.0	56	46
5.0 - 30	60	50
Note 1: The lower limit shall apply at the transition frequencies. Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.		

3.4. Test Procedure

Test Method			
	References Rule	Chapter	Item
☒	ANSI C63.10-2013	6.2	Standard test method for ac power-line conducted emissions from unlicensed wireless devices
☒	ANSI C63.4-2014	7	AC power-line conducted emission measurements

3.5. Test Result

Site: TR1	Time: 2017/02/23
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216-L1	Polarity: Line
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1	

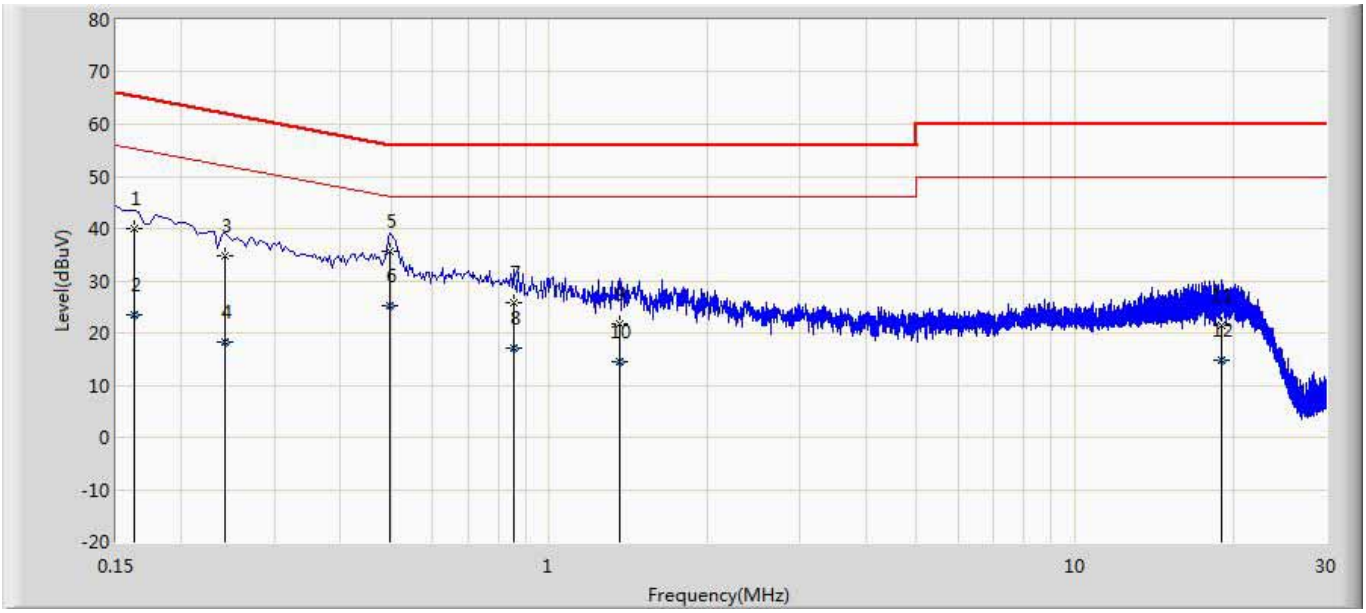


No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1		0.158	41.538	31.807	-24.030	65.568	9.671	0.060	0.000	QP
2		0.158	25.854	16.123	-29.714	55.568	9.671	0.060	0.000	AV
3	*	0.502	40.462	30.762	-15.538	56.000	9.630	0.070	0.000	QP
4		0.502	30.250	20.550	-15.750	46.000	9.630	0.070	0.000	AV
5		0.814	33.685	23.995	-22.315	56.000	9.620	0.070	0.000	QP
6		0.814	25.409	15.719	-20.591	46.000	9.620	0.070	0.000	AV
7		1.042	30.564	20.854	-25.436	56.000	9.630	0.080	0.000	QP
8		1.042	21.943	12.233	-24.057	46.000	9.630	0.080	0.000	AV
9		1.462	30.802	21.082	-25.198	56.000	9.630	0.090	0.000	QP
10		1.462	21.689	11.969	-24.311	46.000	9.630	0.090	0.000	AV
11		21.214	29.222	19.042	-30.778	60.000	9.680	0.500	0.000	QP
12		21.214	20.377	10.197	-29.623	50.000	9.680	0.500	0.000	AV

Note:

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

Site: TR1	Time: 2017/02/23
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216-N	Polarity: Neutral
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1		0.162	40.062	30.333	-25.299	65.361	9.669	0.060	0.000	QP
2		0.162	23.582	13.853	-31.779	55.361	9.669	0.060	0.000	AV
3		0.242	34.735	25.015	-27.292	62.027	9.660	0.060	0.000	QP
4		0.242	18.153	8.433	-33.874	52.027	9.660	0.060	0.000	AV
5	*	0.498	35.639	25.939	-20.394	56.033	9.630	0.070	0.000	QP
6		0.498	25.272	15.572	-20.761	46.033	9.630	0.070	0.000	AV
7		0.854	25.795	16.087	-30.205	56.000	9.638	0.070	0.000	QP
8		0.854	17.133	7.425	-28.867	46.000	9.638	0.070	0.000	AV
9		1.358	21.730	12.015	-34.270	56.000	9.630	0.085	0.000	QP
10		1.358	14.421	4.706	-31.579	46.000	9.630	0.085	0.000	AV
11		18.954	21.384	11.094	-38.616	60.000	9.840	0.450	0.000	QP
12		18.954	14.846	4.556	-35.154	50.000	9.840	0.450	0.000	AV

Note:

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

4. Radiated Emission

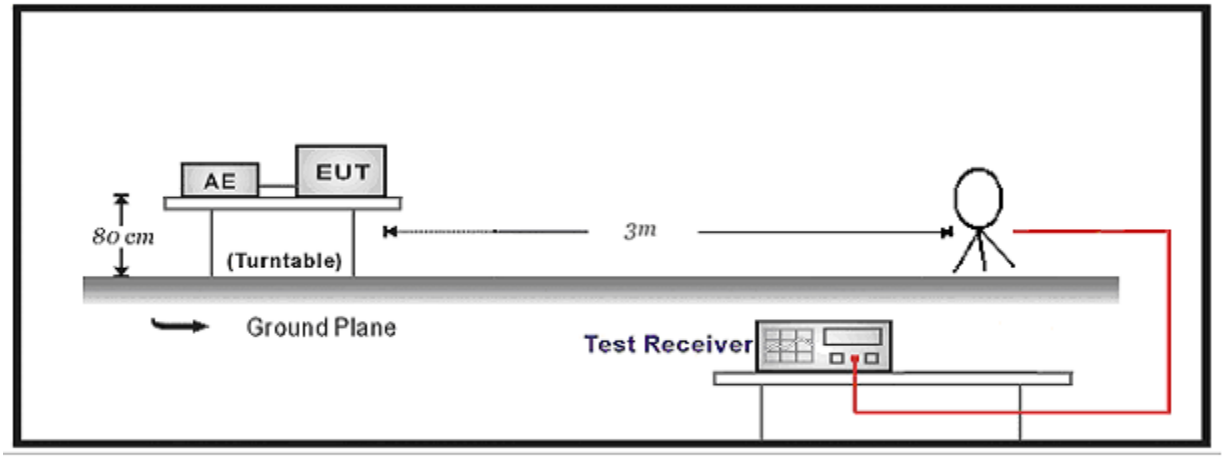
4.1. Test Equipment

Radiated Emission / AC-2					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100573	2017.03.29	2018.03.28
Loop Antenna	R&S	HFH2-Z2	833799/003	2016.11.16	2017.11.15
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2016.10.16	2017.10.15
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2017.03.02	2018.03.01
Temperature/Humidity Meter	Zhichen	ZC1-2	AC2-TH	2017.01.04	2018.01.03

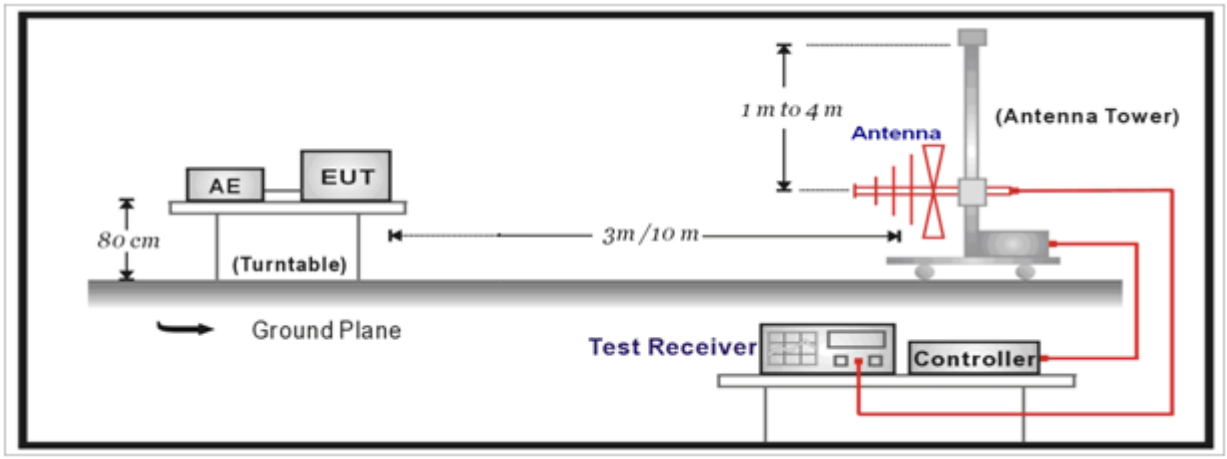
Radiated Emission / AC-5					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2017.01.04	2018.01.03
Preamplifier	Miteq	NSP1800-25	1364185	2017.05.06	2018.05.05
Preamplifier	DEKRA Testing and Certification (Suzhou) Co., Ltd.	AP-040G	CHM-0906001	2017.05.06	2018.05.05
DRG Horn	ETS-Lindgren	3117	00123988	2017.01.22	2018.01.21
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2016.11.25	2017.11.24
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C1	2017.03.02	2018.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2017.03.02	2018.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	AC5-C3	2017.03.02	2018.03.01
EMI Receiver	Agilent	N9038A	MY51210196	2016.06.10	2017.06.09
Temperature/Humidity Meter	Zhichen	ZC1-2	AC5-TH	2017.01.04	2018.01.03
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

4.2. Test Setup

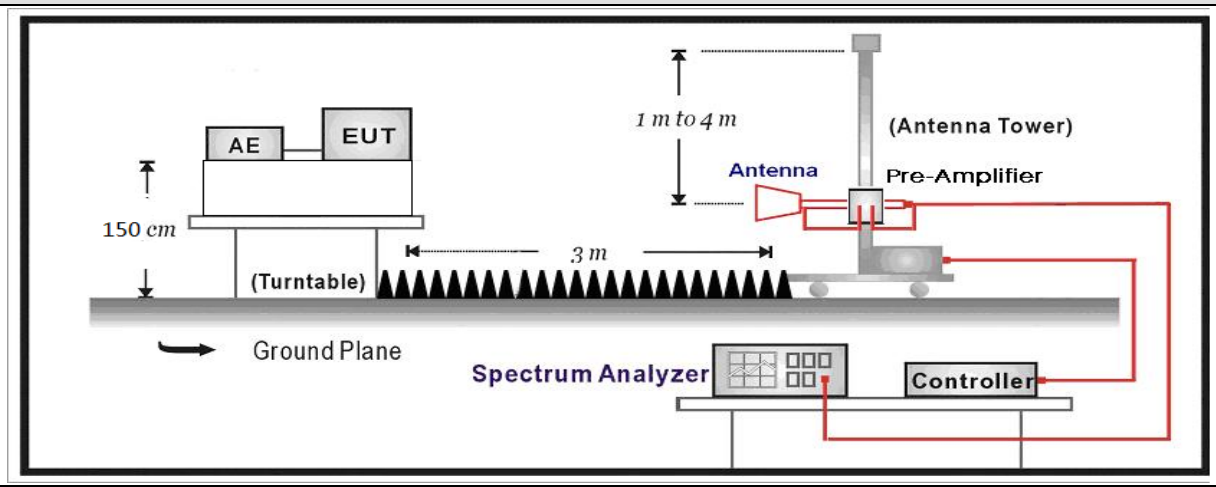
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:



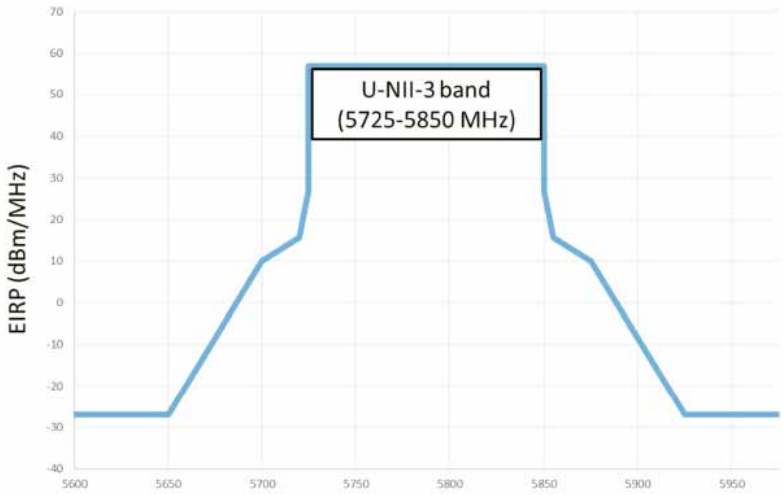
4.3. Limit

FCC Part 15 Subpart C Paragraph 15.209 (Restricted Band Emissions Limit)		
Frequency (MHz)	Distance (m)	Level (dB μV/m)
0.009-0.490	300	2400/F(kHz)
0.490-1.705	30	24000/F(kHz)
1.705-30.0	30	30
30-88	3	100**
88-216	3	150**
216-960	3	200**
Above 960	3	500

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).

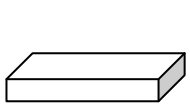
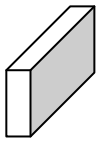
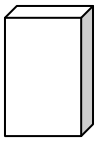
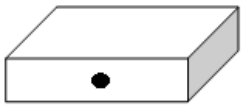
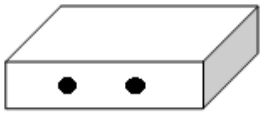
FCC Part 15 Subpart C Paragraph 15.205 (Restricted Band)			
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 – 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15
0.495 – 0.505	16.69475 –16.69525	608 – 614	5.35 – 5.46
2.1735 – 2.1905	16.80425 – 16.80475	960 – 1240	7.25 – 7.75
4.125 – 4.128	25.5 – 25.67	1300 – 1427	8.025 – 8.5
4.17725 – 4.17775	37.5 – 38.25	1435 – 1626.5	9.0 – 9.2
4.20725 – 4.20775	73 – 74.6	1645.5 – 1646.5	9.3 – 9.5
6.215 – 6.218	74.8 – 75.2	1660 – 1710	10.6 – 12.7
6.26775 – 6.26825	108 – 121.94	1718.8 – 1722.2	13.25 – 13.4
6.31175 – 6.31225	123 – 138	2200 – 2300	14.47 – 14.5
8.291 – 8.294	149.9 – 150.05	2310 – 2390	15.35 – 16.2
8.362 – 8.366	156.52475 – 156.52525	2483.5 – 2500	17.7 – 21.4
8.37625 – 8.38675	156.7 – 156.9	2690 – 2900	22.01 – 23.12
8.81425 – 8.81475	162.0125 – 167.17	3260 – 3267	23.6 – 24.0
12.29 – 12.293	167.72 – 173.2	3332 – 3339	31.2 – 31.8
12.51975–12.52025	240 – 285	3345.8 – 3358	36.43 – 36.5
12.57675–12.57725	322 – 335.4	3600 – 4400	
13.36 – 13.41			

FCC Part 15 Subpart C Paragraph 15.407(5)(b) (Unrestricted Band Emissions Limit)		
Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m (dB μ V/m)
5150 - 5250	-27	68.3
5250 - 5350	-27	68.3
5470 - 5725	-27	68.3
Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)	
5725 - 5825		

4.4. Test Procedure

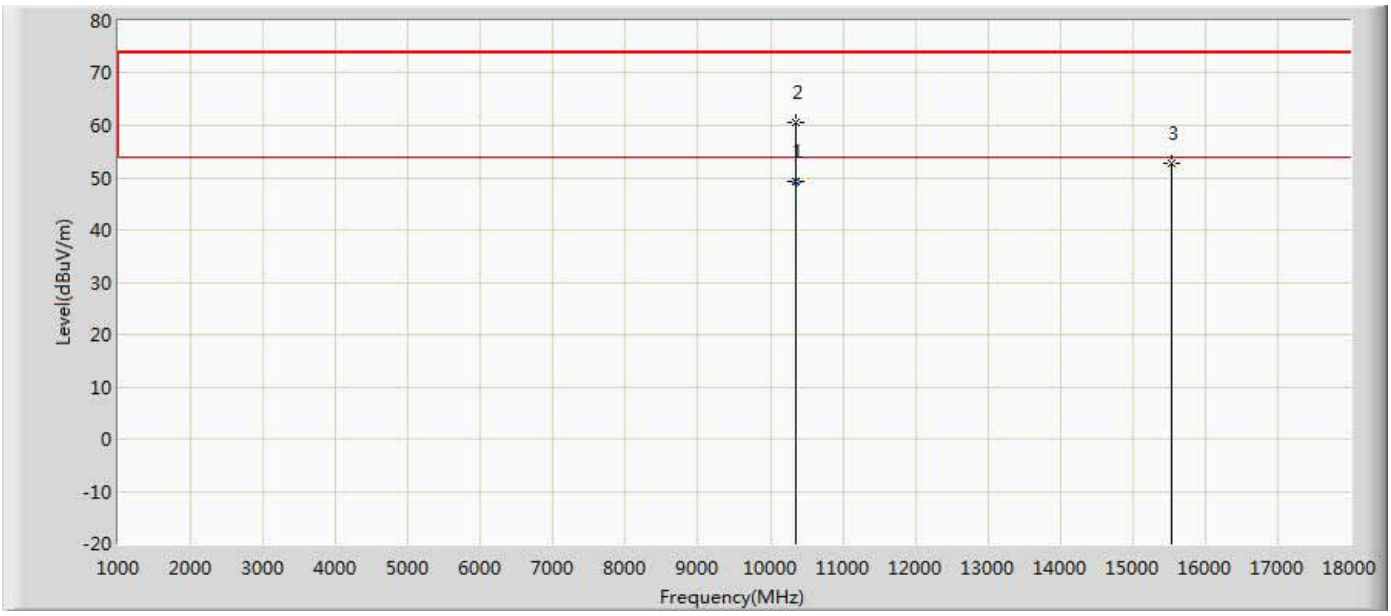
Test Method					
	References Rule			Chapter	Description
☐	ANSI C63.10			12.7.3	Emissions in non-restricted frequency bands
☒	ANSI C63.10			12.7.2	Emissions in restricted frequency bands
	☒	ANSI C63.10		12.7.5	Radiated emission measurements
	☒	ANSI C63.10		12.7.6	Procedure for peak unwanted emissions 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
☐	FCC KDB 789033 D02v01r04			G.2	Unwanted Emissions that fall Outside of the Restricted Bands
☐	FCC KDB 789033 D02v01r04			G.1	Unwanted Emissions in the Restricted Bands
	☐	FCC KDB 789033 D02v01r04		G.4	Procedure for Unwanted Emissions Measurements below 1000 MHz
	☐	FCC KDB 789033 D02v01r04		G.5	Procedure for Unwanted Maximum Emissions Measurements above 1000 MHz
	☐	FCC KDB 789033 D02v01r04		G.6	Procedures for Average Unwanted Emissions Measurements above 1000 MHz
		☐	FCC KDB 789033 D02v01r04	G.6.c	Method AD (Average detection)—primary method
		☐	FCC KDB 789033 D02v01r04	G.6.d	Method VB (Averaging using reduced video bandwidth): Alternative method.

4.5. EUT test Axis definition

<table>
<tr><td>Item</td><td colspan="4">Radiated Emission</td></tr>
<tr><td rowspan="4">Device Category</td><td>☐</td><td colspan="3">Indoor use</td></tr>
<tr><td>☐</td><td colspan="3">Outdoor use</td></tr>
<tr><td>☐</td><td colspan="3">Fix position use</td></tr>
<tr><td>☒</td><td colspan="3">Client use</td></tr>
<tr><td>Test mode</td><td colspan="4">Mode 1-6</td></tr>
<tr><td rowspan="15">Test method</td><td>☒</td><td colspan="3">Radiated</td></tr>
<tr><td rowspan="3"></td><td>X Axis</td><td>Y Axis</td><td>Z Axis</td></tr>
<tr><td>  </td><td>  </td><td>  </td></tr>
<tr><td>Worst Axis ☐</td><td>Worst Axis ☐</td><td>Worst Axis ☒</td></tr>
<tr><td>☐</td><td colspan="3">Conducted</td></tr>
<tr><td>☐</td><td colspan="3">Chain 1</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☐</td><td>Chain 1</td><td colspan="2">Chain 2</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☐</td><td>Chain 1</td><td>Chain 2</td><td>Chain 3</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
</table>

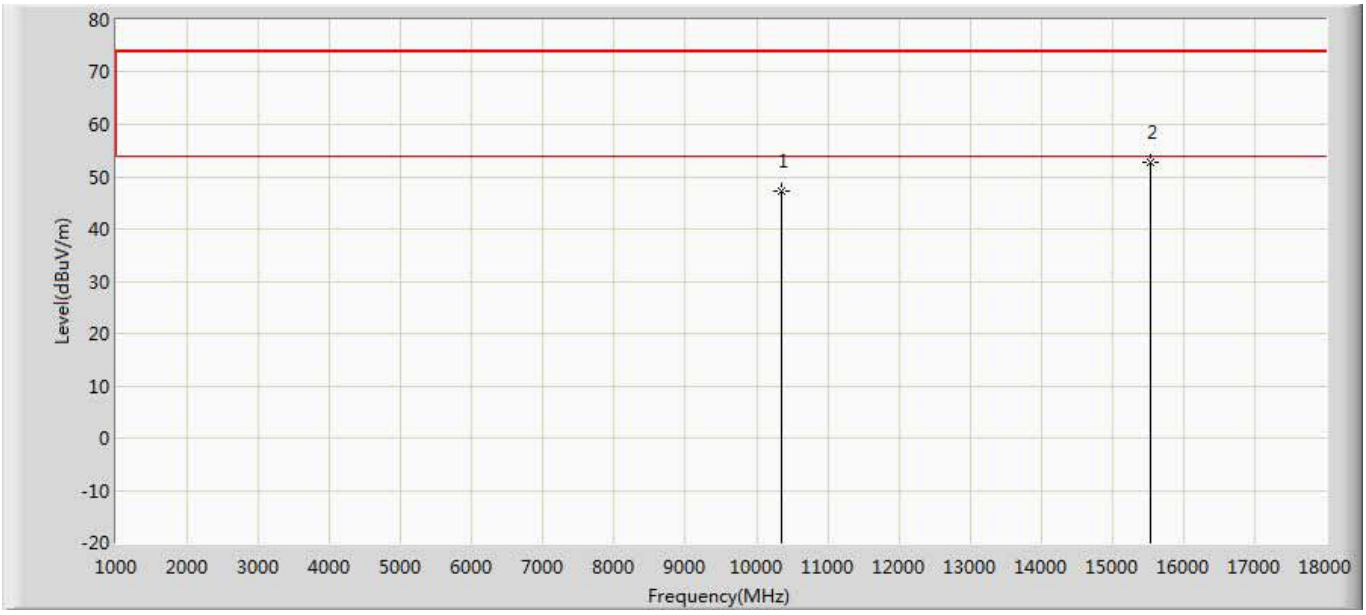
4.6. Test Result

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5180MHz by 11a	



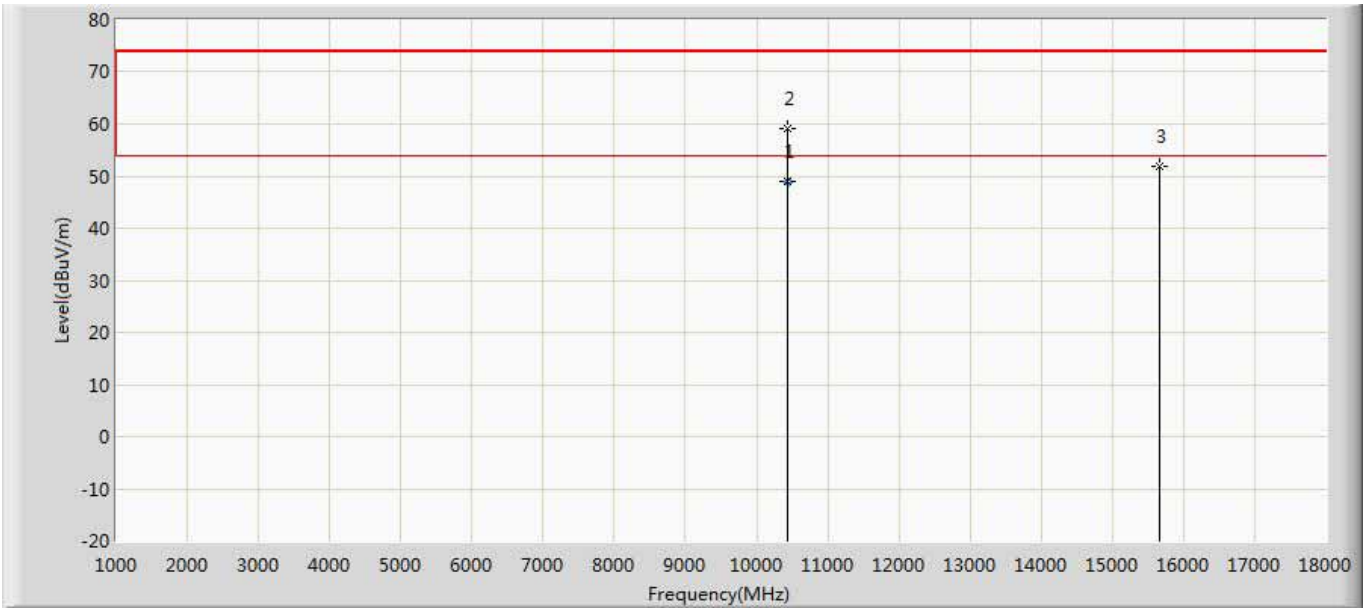
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	10359.870	49.310	37.510	-4.690	54.000	11.800	AV
2		10360.240	60.449	48.650	-13.551	74.000	11.798	PK
3		15540.000	52.691	35.070	-21.309	74.000	17.621	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:22
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5180MHz by 11a	



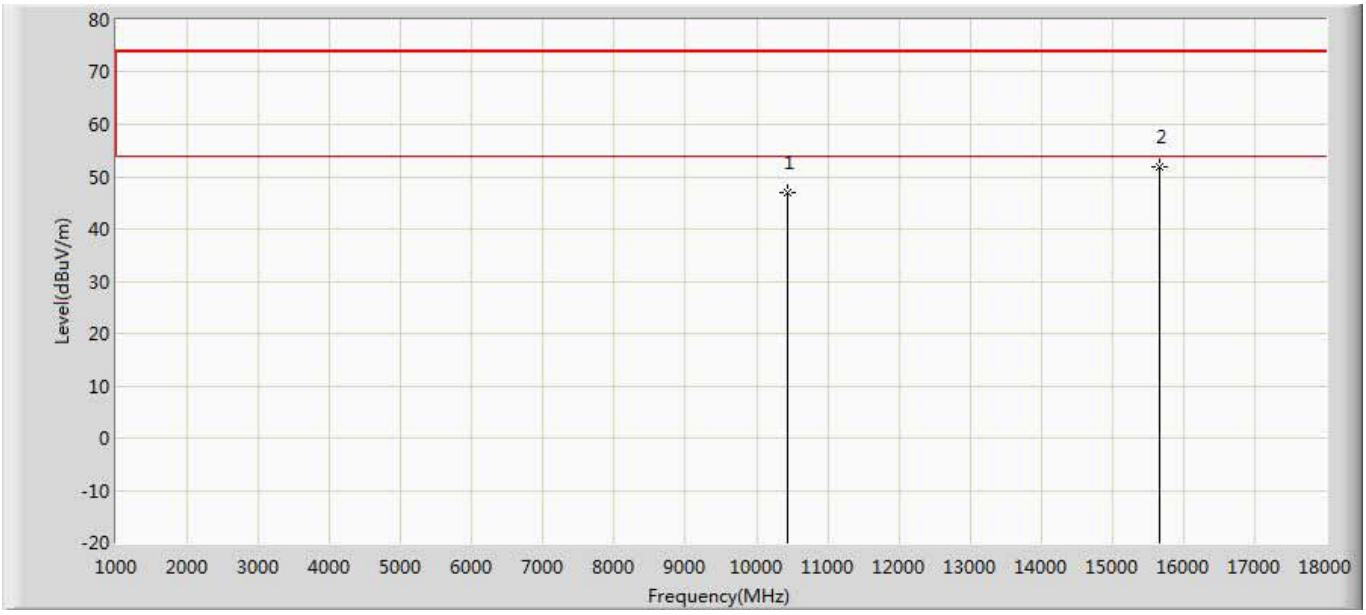
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10360.000	47.217	35.418	-26.783	74.000	11.799	PK
2	*	15540.000	52.691	35.070	-21.309	74.000	17.621	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/10 - 10:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5220MHz by 11a	



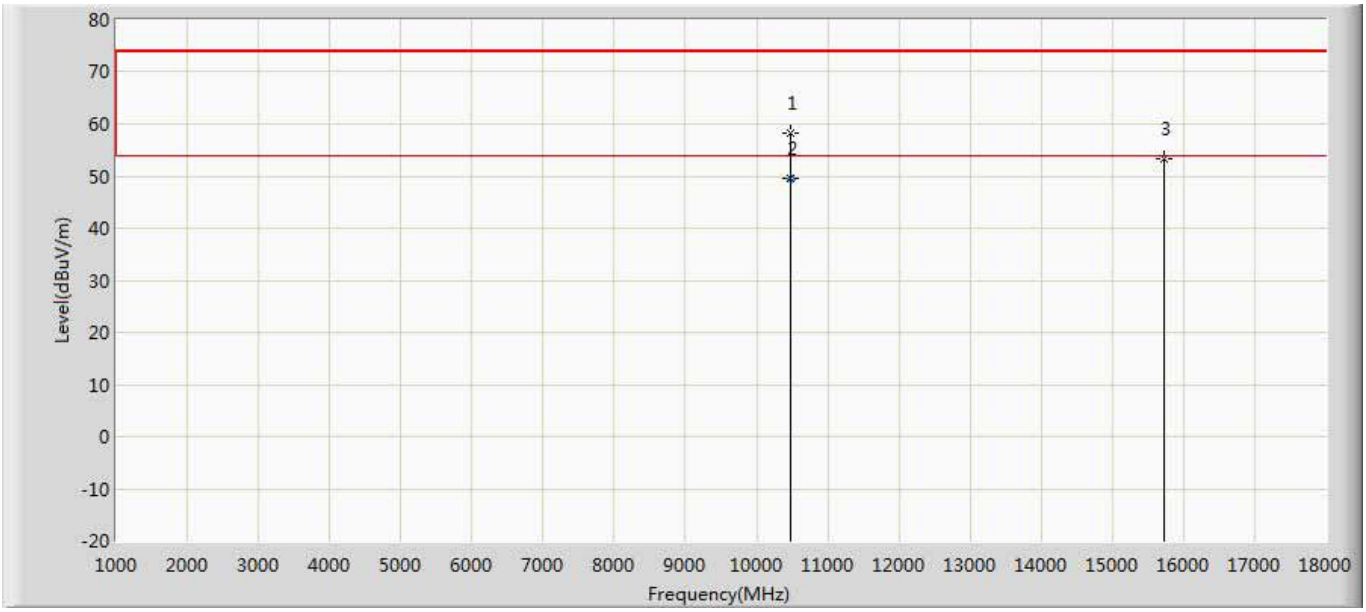
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	10439.690	48.974	36.870	-5.026	54.000	12.104	AV
2		10440.110	59.122	47.040	-14.878	74.000	12.081	PK
3		15660.000	51.784	33.638	-22.216	74.000	18.146	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:30
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5220MHz by 11a	



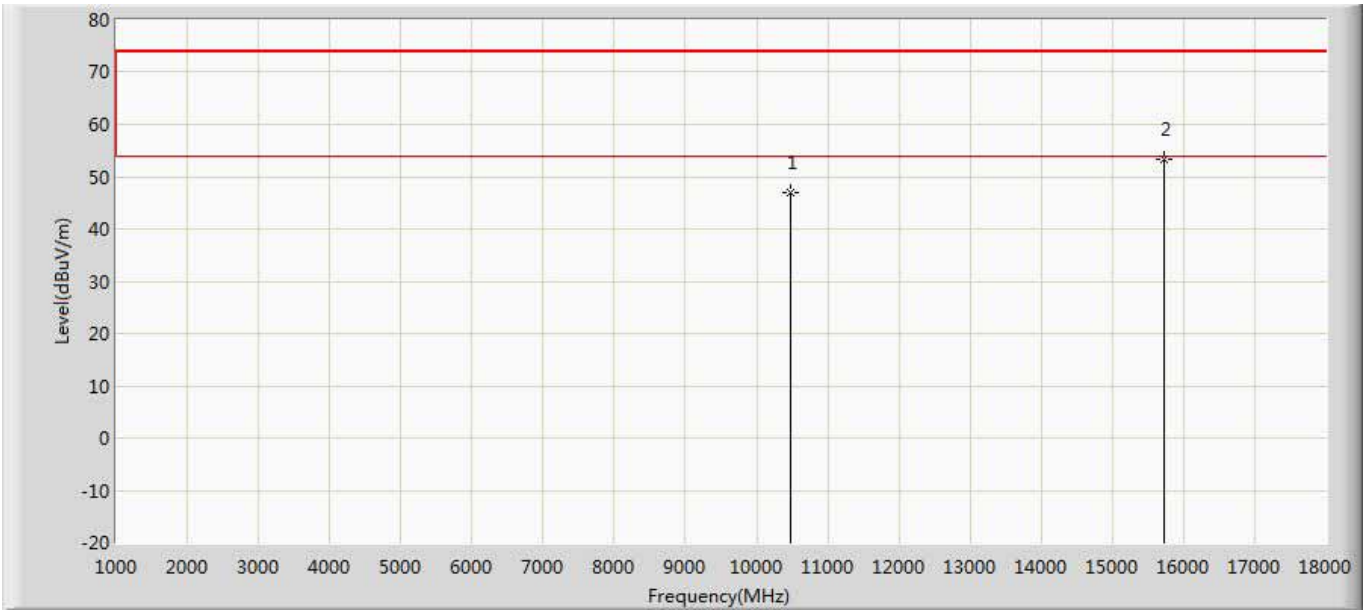
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10440.000	46.909	34.821	-27.091	74.000	12.088	PK
2	*	15660.000	51.784	33.638	-22.216	74.000	18.146	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/10 - 10:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5240MHz by 11a	



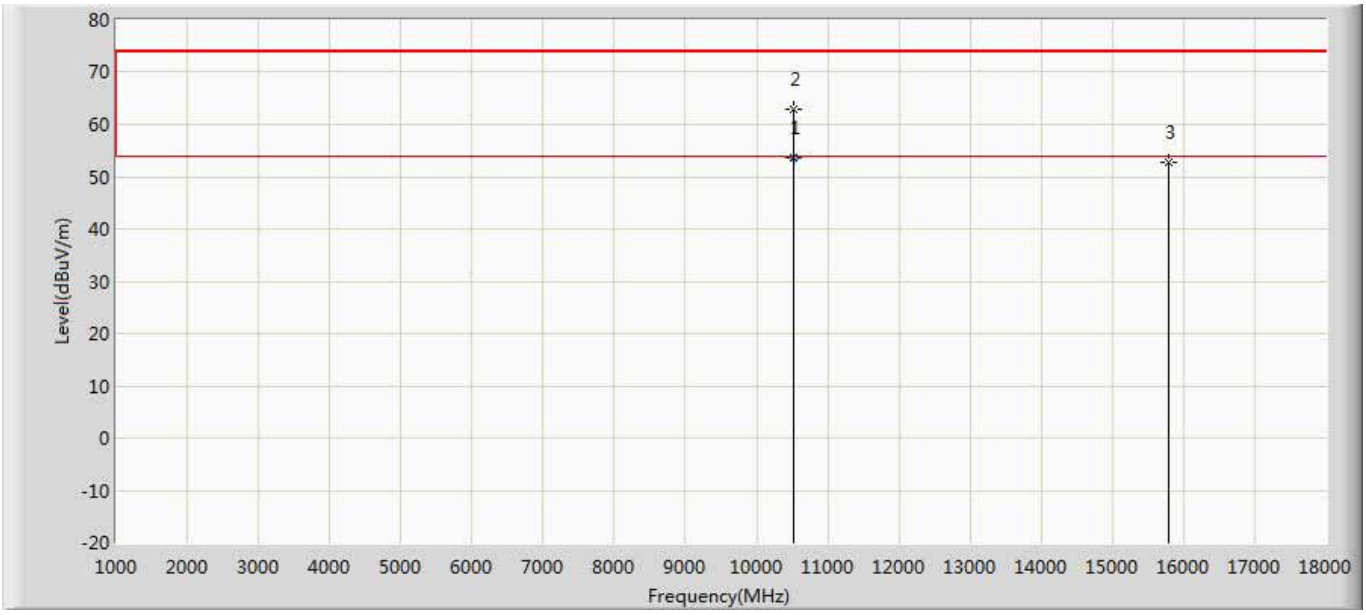
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10479.670	58.133	46.420	-15.867	74.000	11.713	PK
2	*	10479.830	49.572	37.860	-4.428	54.000	11.712	AV
3		15720.000	53.291	34.973	-20.709	74.000	18.318	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:30
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5240MHz by 11a	



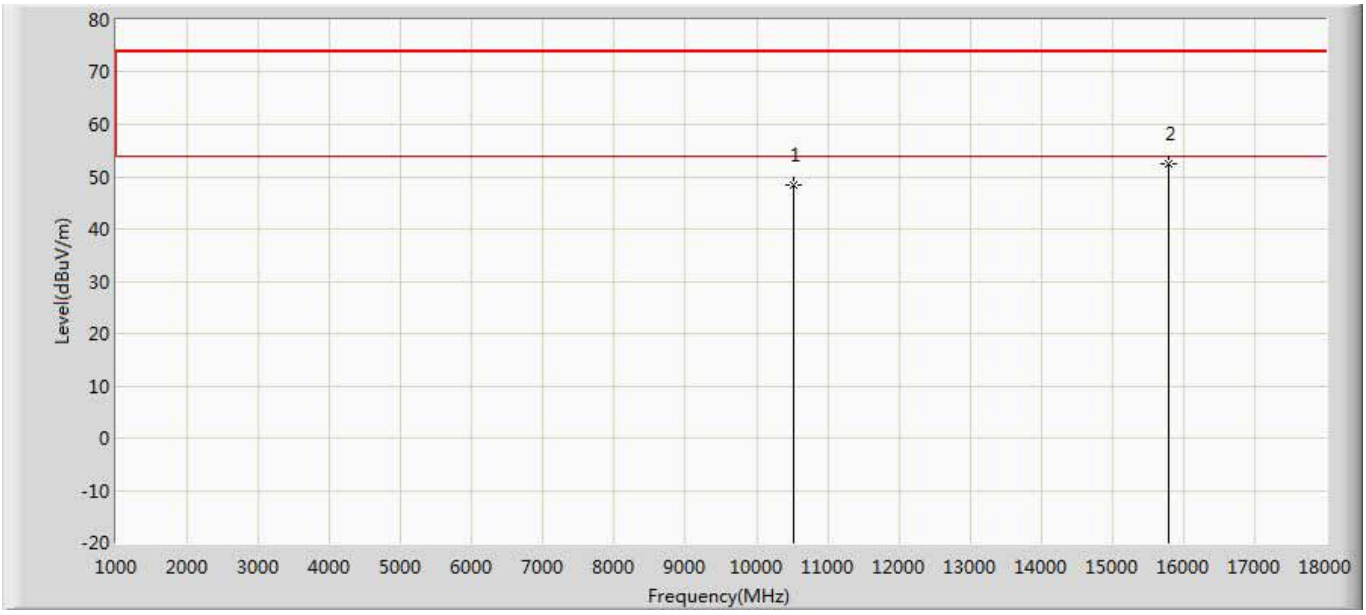
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10480.000	47.059	35.348	-26.941	74.000	11.711	PK
2	*	15720.000	53.291	34.973	-20.709	74.000	18.318	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 17:31
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5260MHz by 11a	



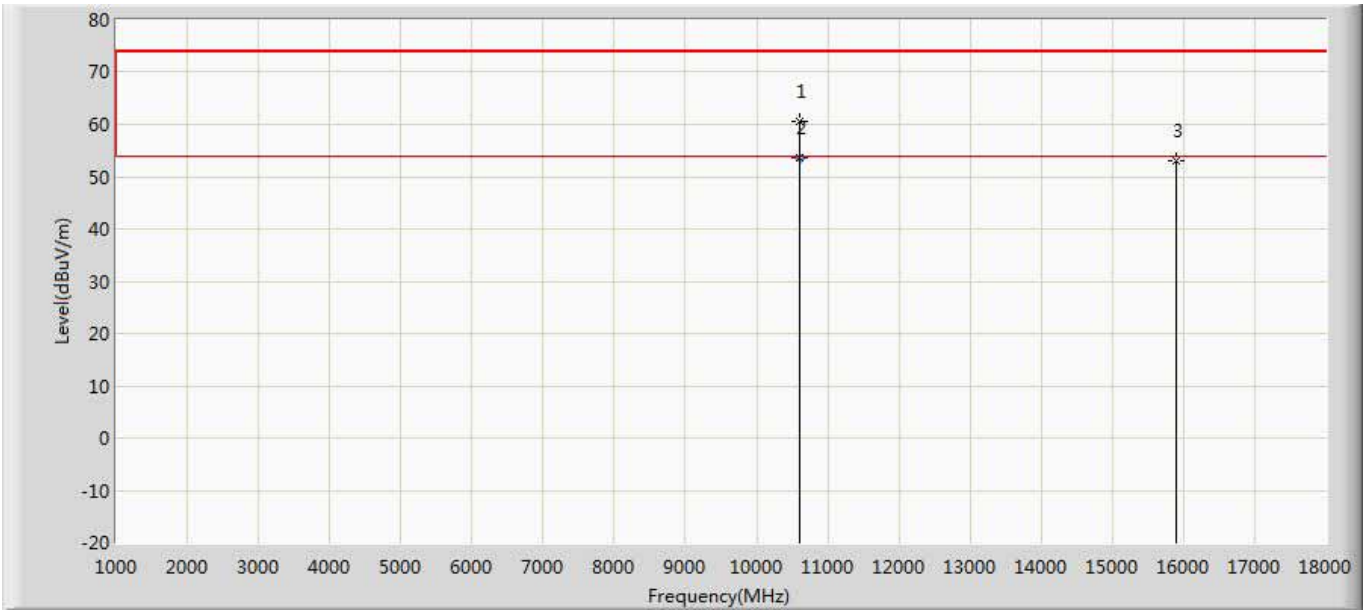
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	10518.050	53.614	38.990	-0.386	54.000	14.624	AV
2		10520.000	62.863	48.051	-11.137	74.000	14.812	PK
3		15780.000	52.812	33.333	-21.188	74.000	19.479	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:30
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5260MHz by 11a	



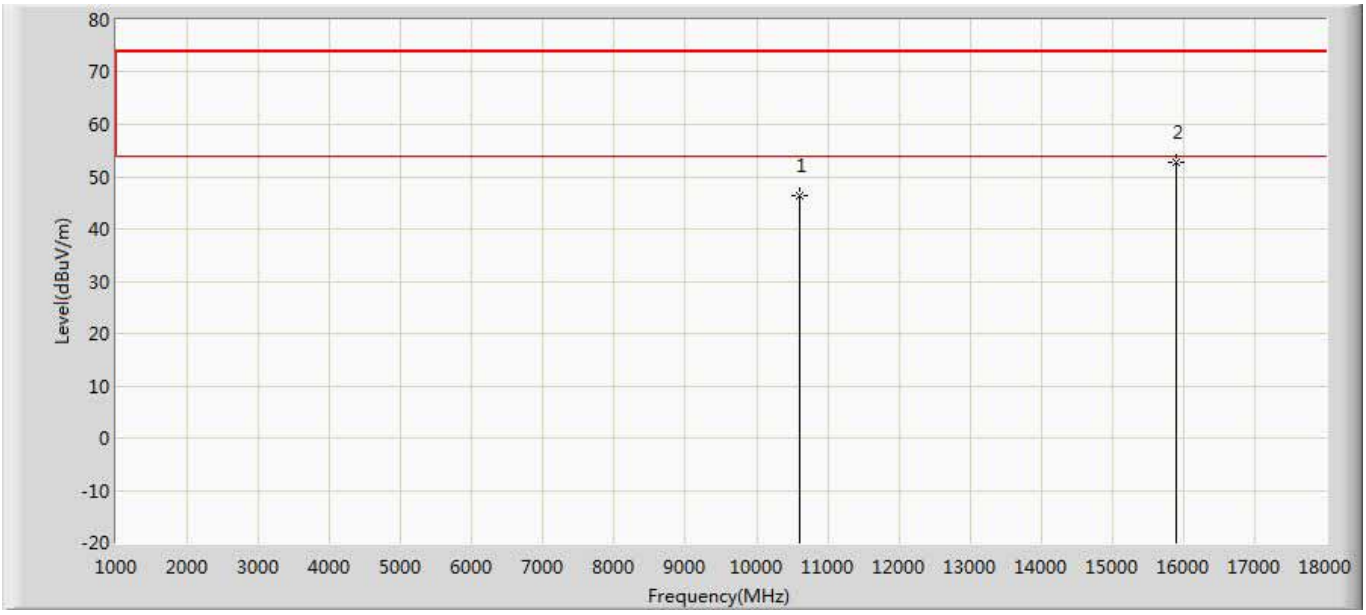
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10520.000	48.409	35.851	-25.591	74.000	12.558	PK
2	*	15780.000	52.578	34.321	-21.422	74.000	18.258	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 17:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5300MHz by 11a	



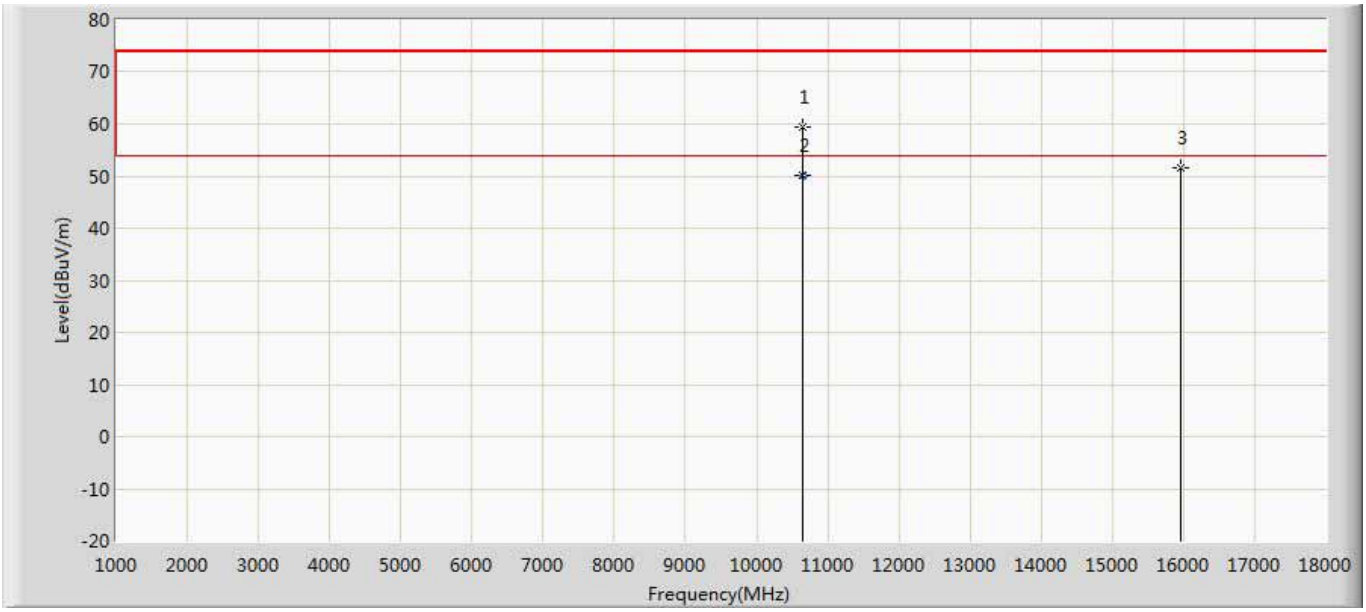
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10596.500	62.563	48.906	-11.437	74.000	13.657	PK
2	*	10600.150	53.943	40.186	-0.057	54.000	13.757	AV
3		15900.000	53.071	33.114	-20.929	74.000	19.957	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:31
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5300MHz by 11a	



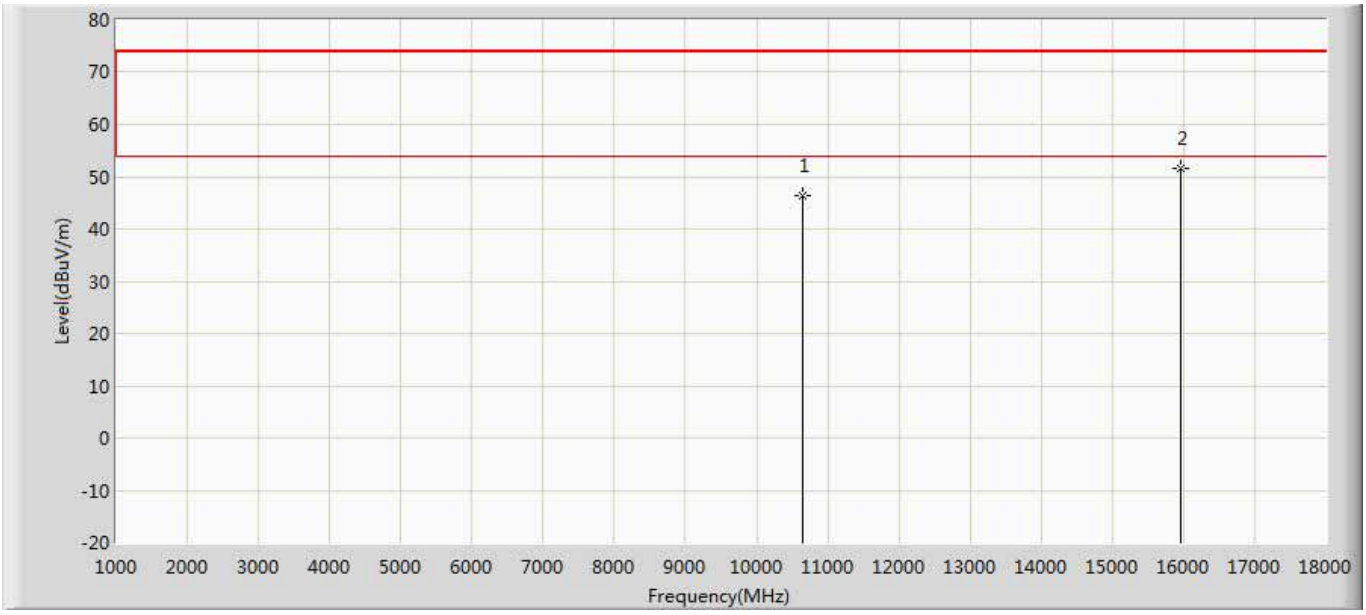
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10600.000	46.454	34.403	-27.546	74.000	12.051	PK
2	*	15900.000	52.611	34.089	-21.389	74.000	18.522	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/10 - 10:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5320MHz by 11a	



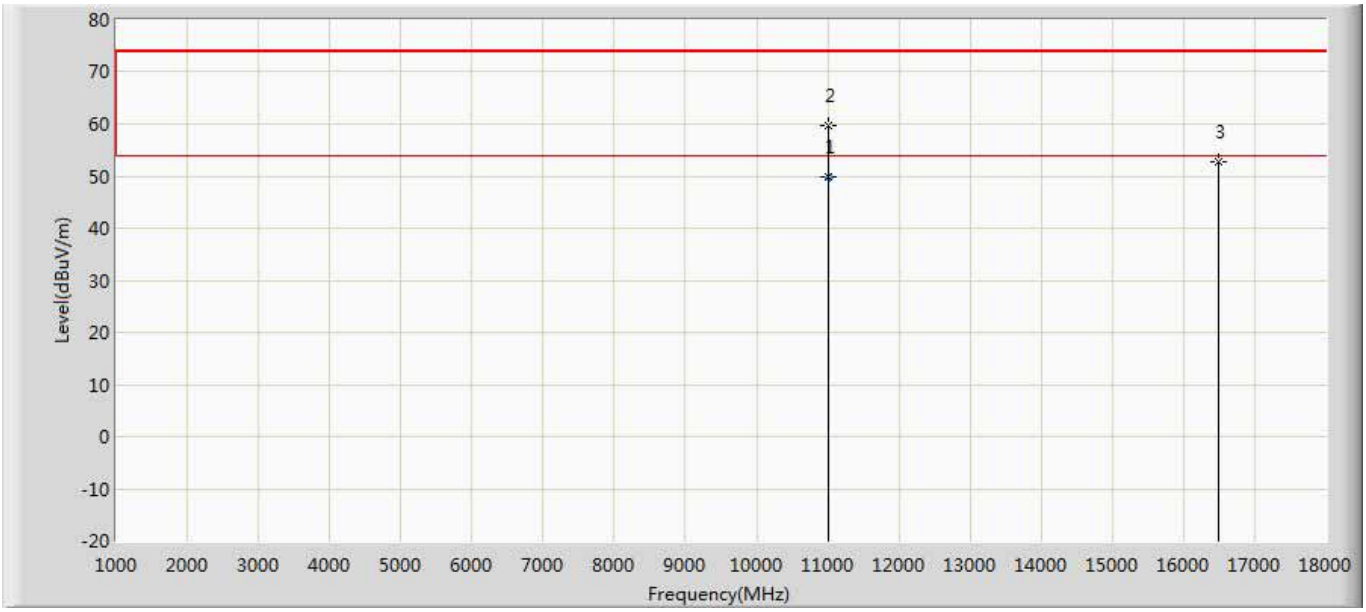
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10639.870	59.499	47.460	-14.501	74.000	12.040	PK
2	*	10639.940	50.071	38.030	-3.929	54.000	12.042	AV
3		15960.000	51.698	33.235	-22.302	74.000	18.463	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:31
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5320MHz by 11a	



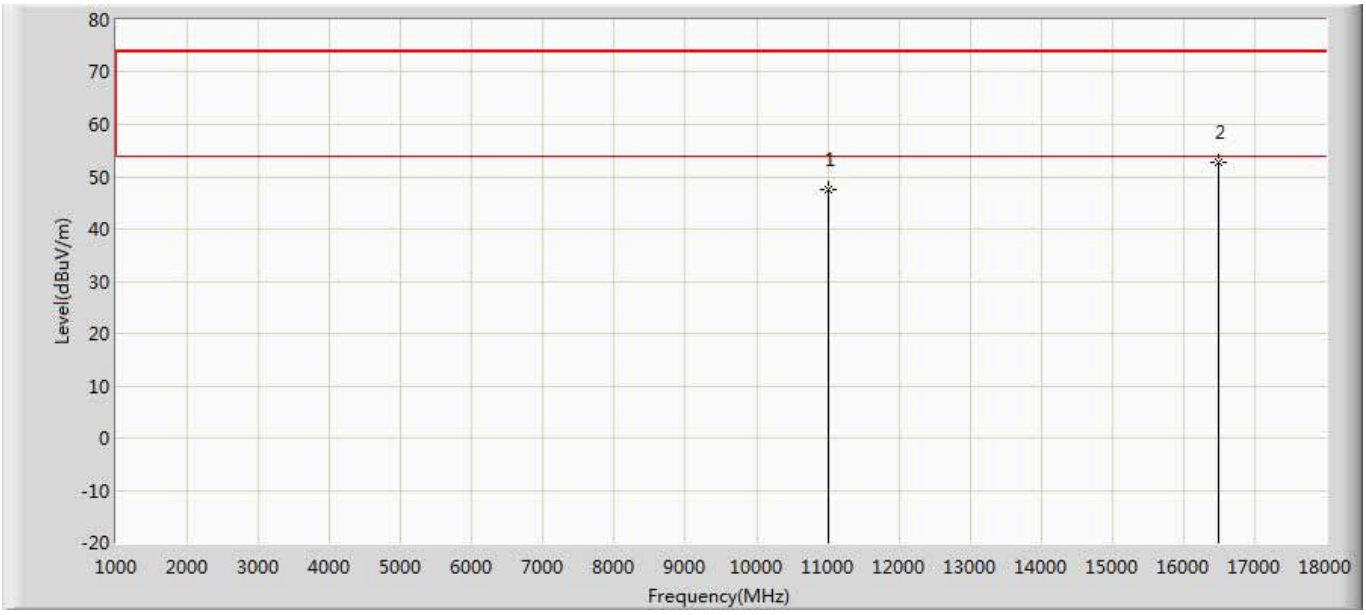
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10640.000	46.267	34.225	-27.733	74.000	12.042	PK
2	*	15960.000	51.698	33.235	-22.302	74.000	18.463	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/10 - 14:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5500MHz by 11a	



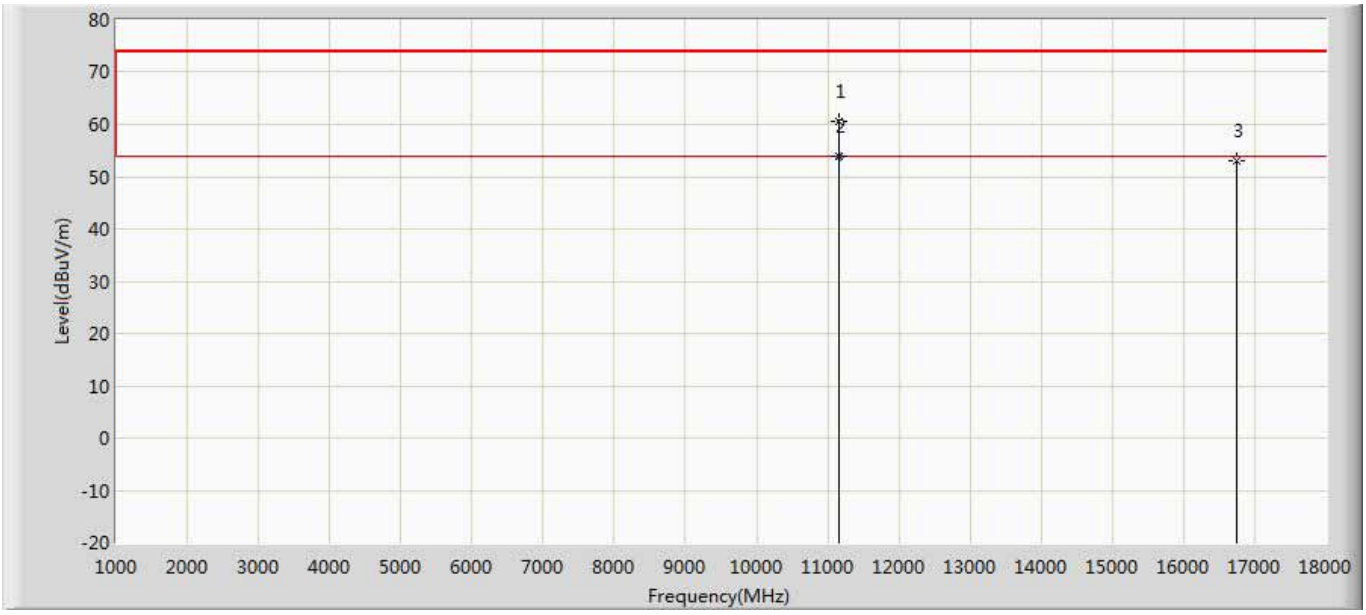
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	10999.850	49.761	37.240	-4.239	54.000	12.521	AV
2		11000.110	59.616	47.080	-14.384	74.000	12.535	PK
3		16500.000	52.829	33.739	-21.171	74.000	19.090	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5500MHz by 11a	



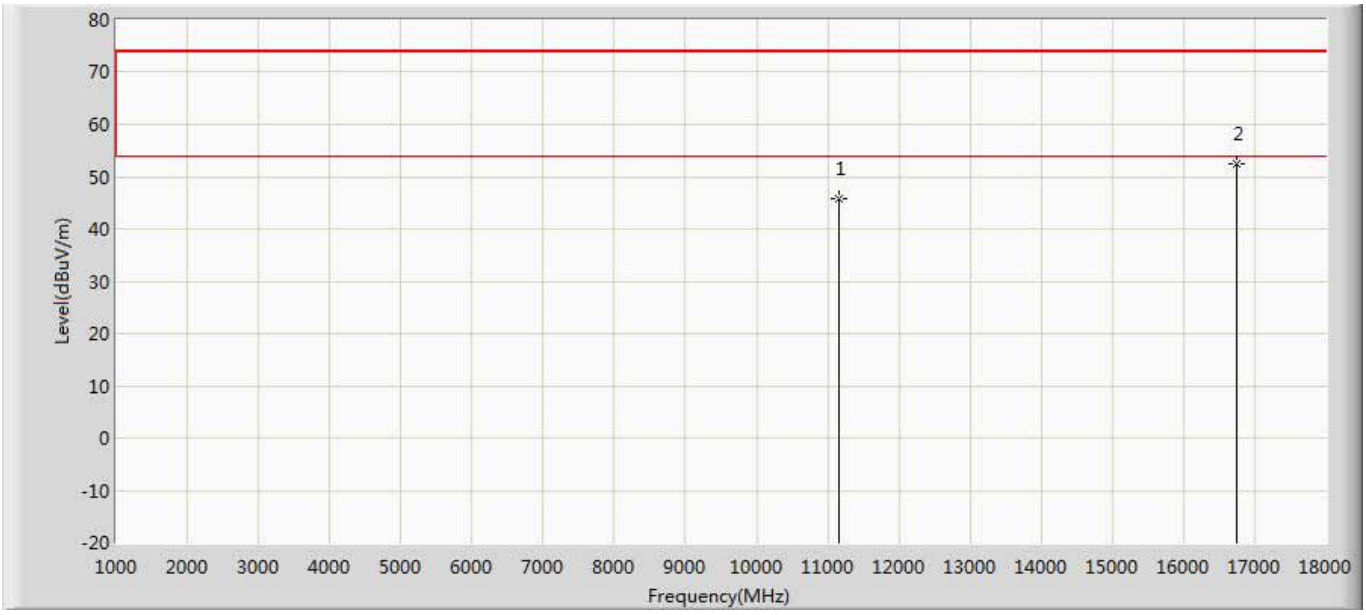
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11000.000	47.424	34.894	-26.576	74.000	12.529	PK
2	*	16500.000	52.829	33.739	-21.171	74.000	19.090	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 17:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5580MHz by 11a	



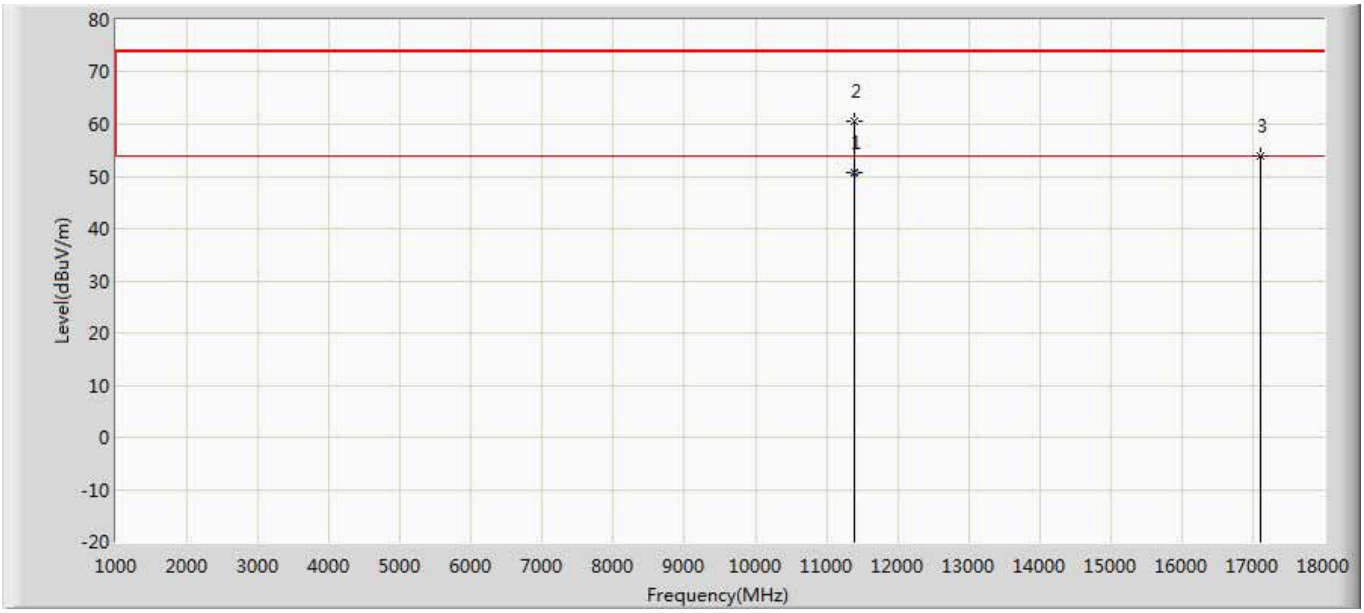
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11157.500	60.567	45.890	-13.433	74.000	14.677	PK
2	*	11159.850	53.804	39.321	-0.196	54.000	14.483	AV
3		16740.000	53.102	32.454	-20.898	74.000	20.648	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5580MHz by 11a	



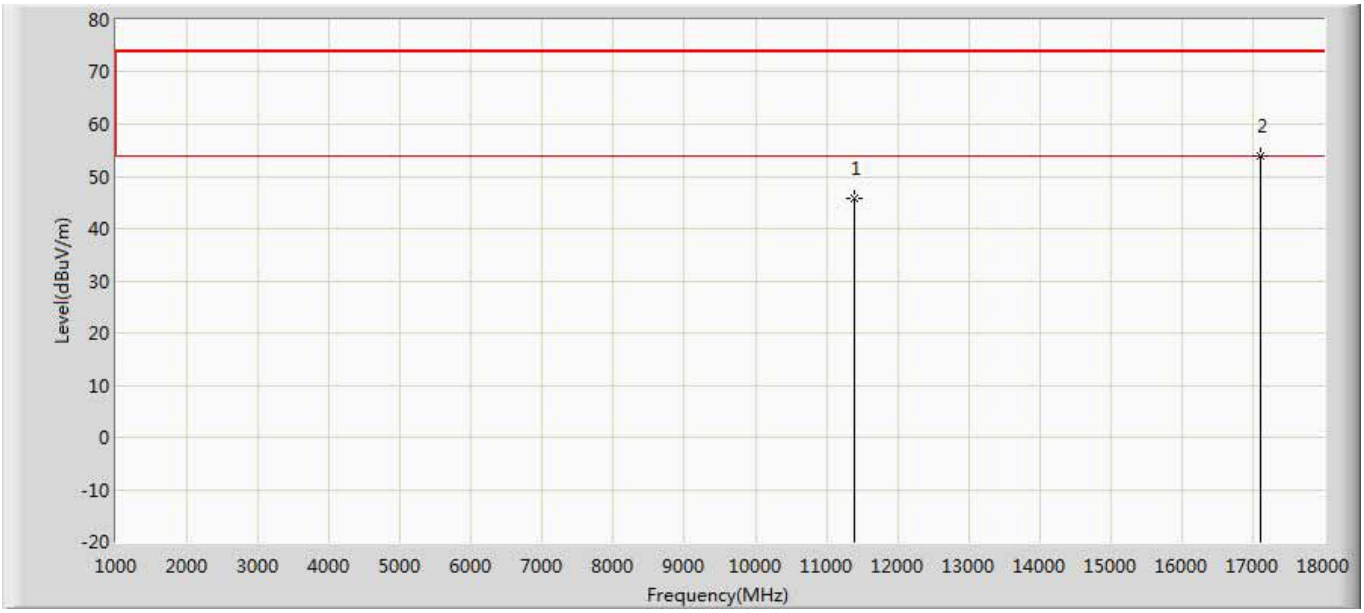
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11160.000	45.857	32.864	-28.143	74.000	12.994	PK
2	*	16740.000	52.355	33.047	-21.645	74.000	19.308	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/10 - 14:54
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5700MHz by 11a	



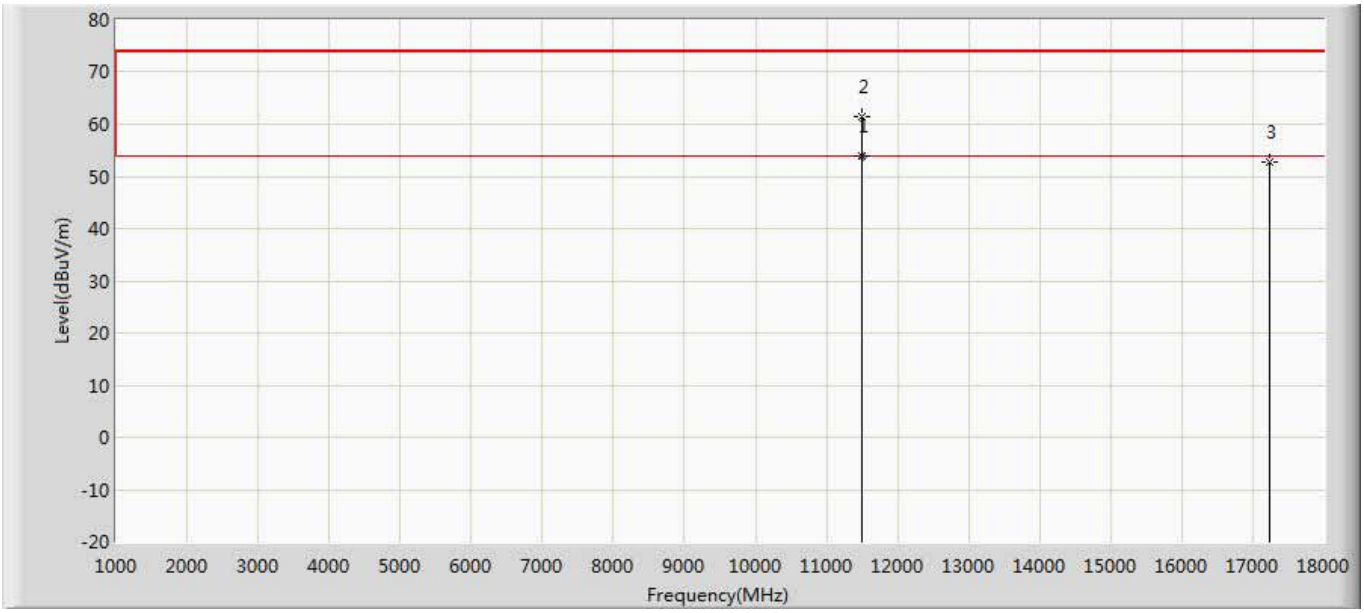
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11400.070	50.765	37.280	-3.235	54.000	13.485	AV
2		11400.350	60.445	46.970	-13.555	74.000	13.475	PK
3		17100.000	53.776	33.976	-20.224	74.000	19.800	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5700MHz by 11a	



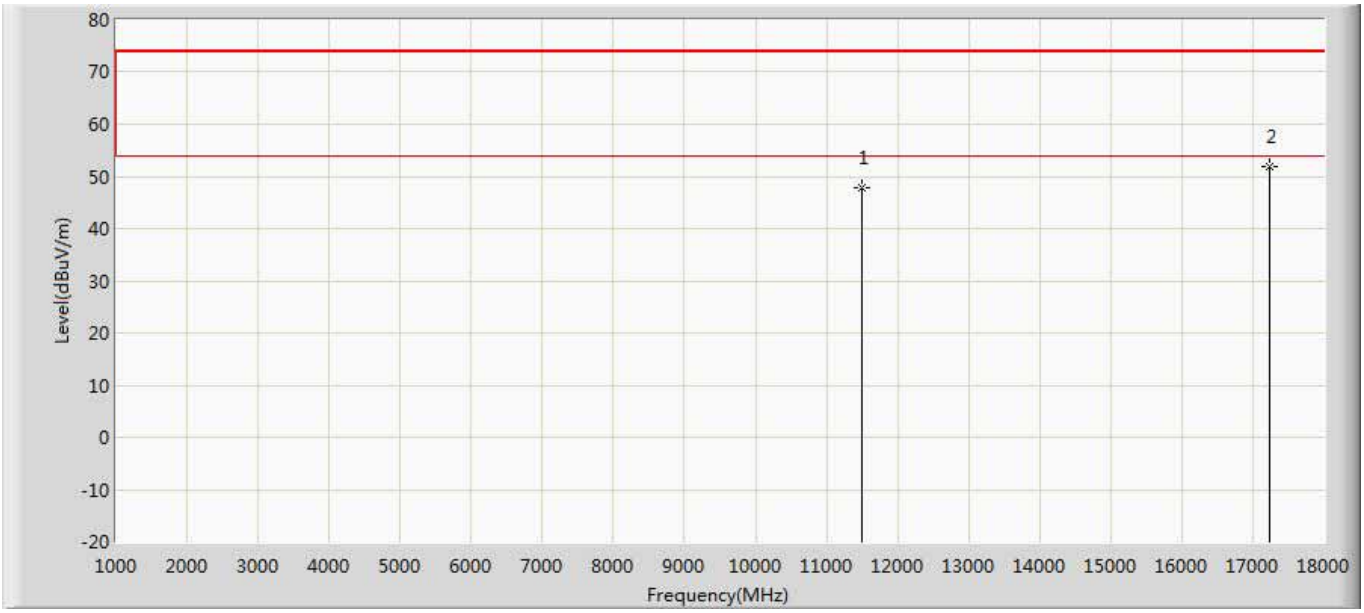
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11400.000	45.687	32.200	-28.313	74.000	13.488	PK
2	*	17100.000	53.776	33.976	-20.224	74.000	19.800	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 17:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5745MHz by 11a	



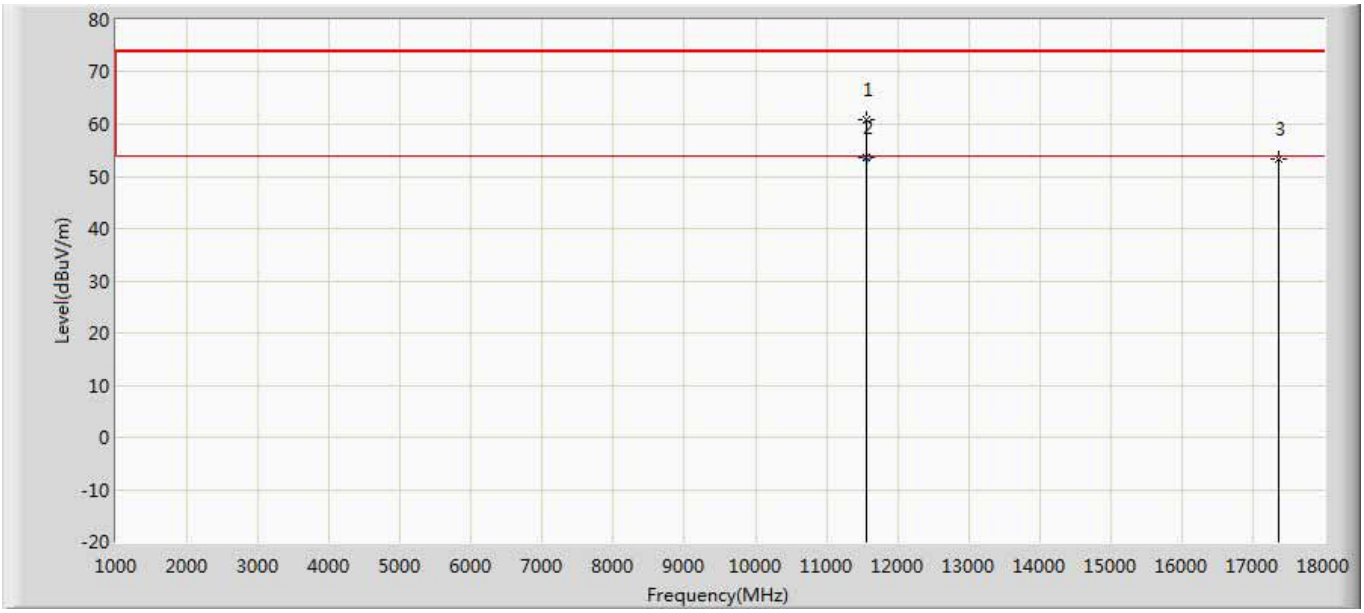
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11489.900	53.903	38.823	-0.097	54.000	15.080	AV
2		11497.500	61.593	46.202	-12.407	74.000	15.391	PK
3		17235.000	52.784	33.305	-21.216	74.000	19.479	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:33
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5745MHz by 11a	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11490.000	47.745	34.553	-26.255	74.000	13.192	PK
2	*	17235.000	51.831	31.860	-22.169	74.000	19.971	PK

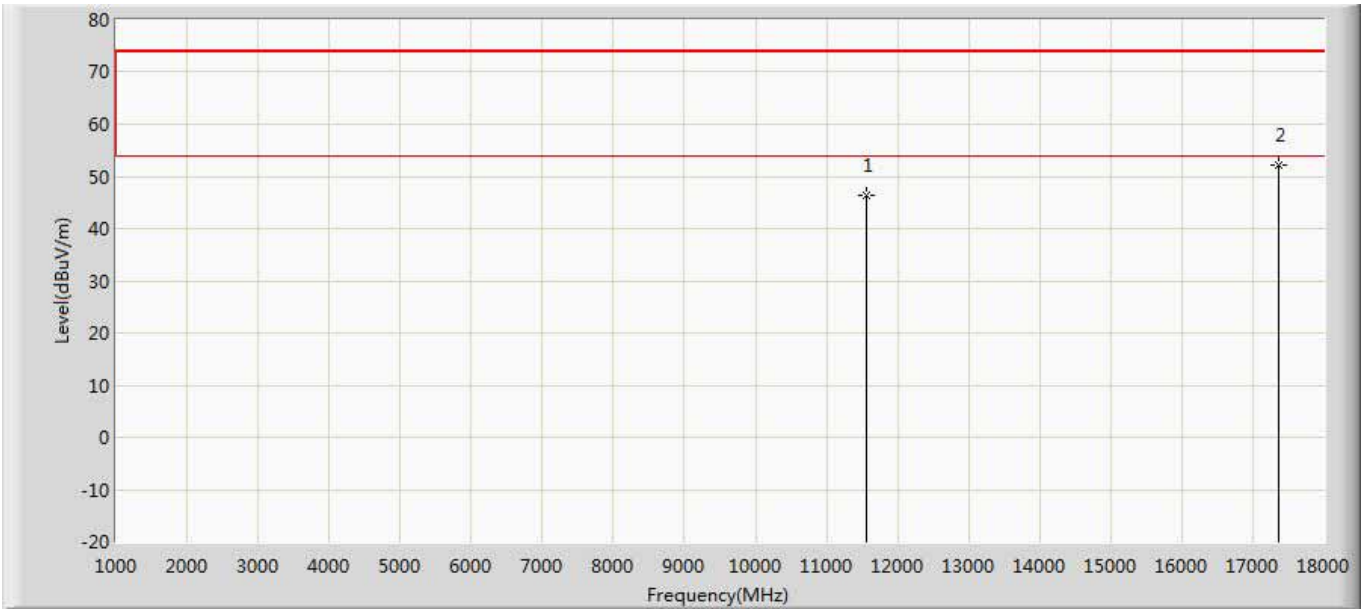
Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 17:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5785MHz by 11a	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11565.500	60.846	44.504	-13.154	74.000	16.342	PK
2	*	11569.850	53.604	37.422	-0.396	54.000	16.181	AV
3		17355.000	53.359	32.775	-20.641	74.000	20.584	PK

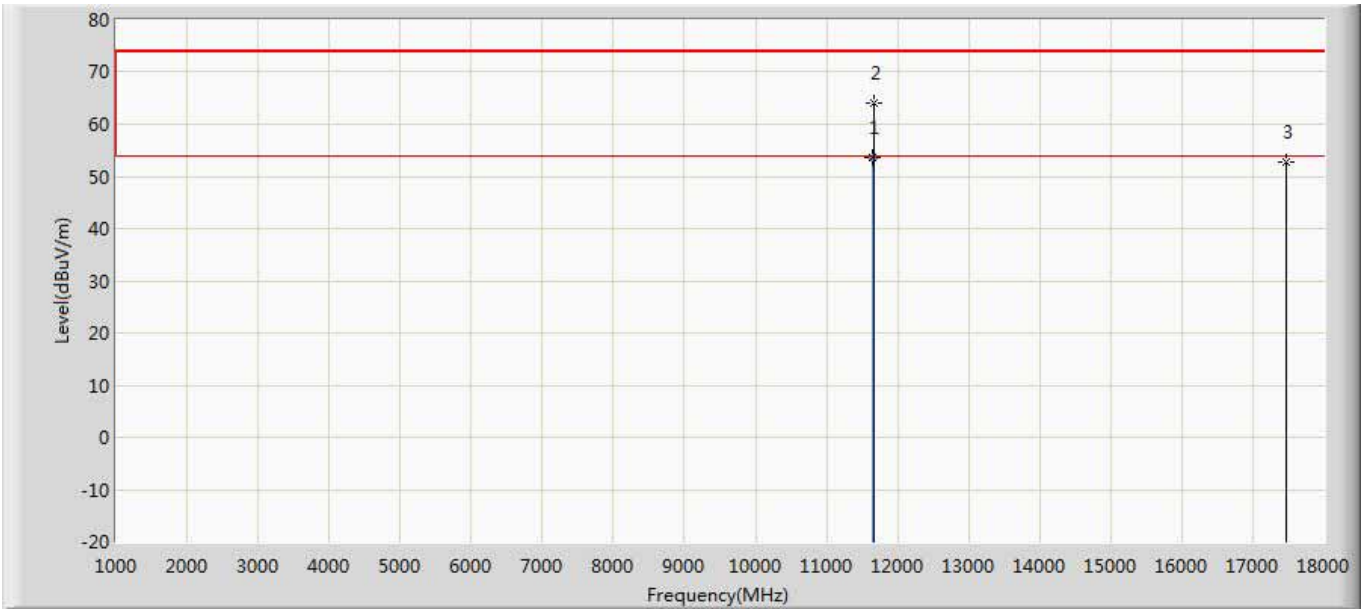
.

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:33
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5785MHz by 11a	



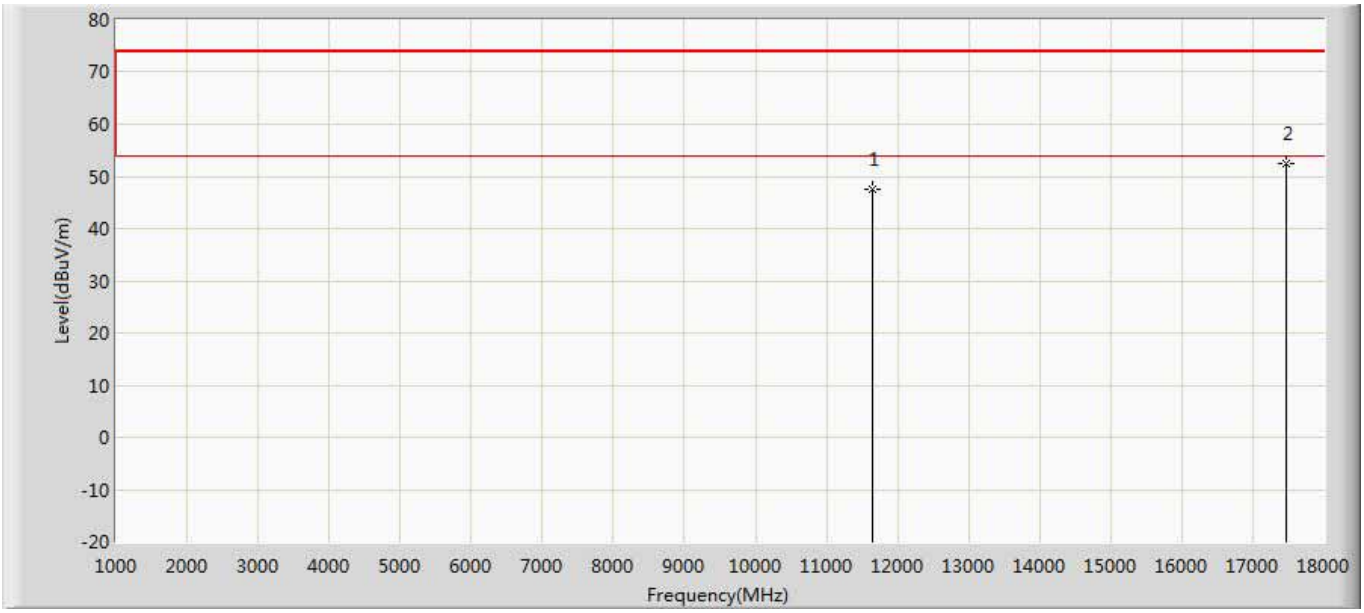
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11570.000	46.440	32.902	-27.560	74.000	13.539	PK
2	*	17355.000	52.146	32.240	-21.854	74.000	19.906	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 17:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5825MHz by 11a	



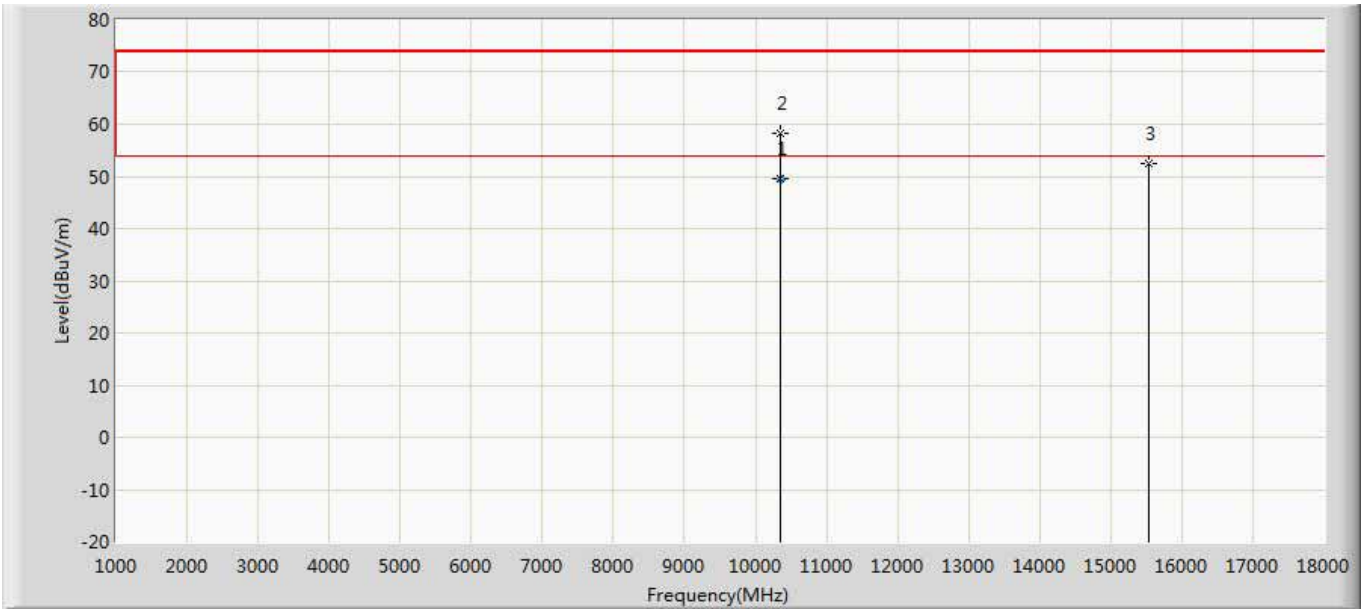
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11648.450	53.711	37.172	-0.289	54.000	16.539	AV
2		11659.000	64.073	47.867	-9.927	74.000	16.206	PK
3		17475.000	52.777	32.570	-21.223	74.000	20.208	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:33
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5825MHz by 11a	



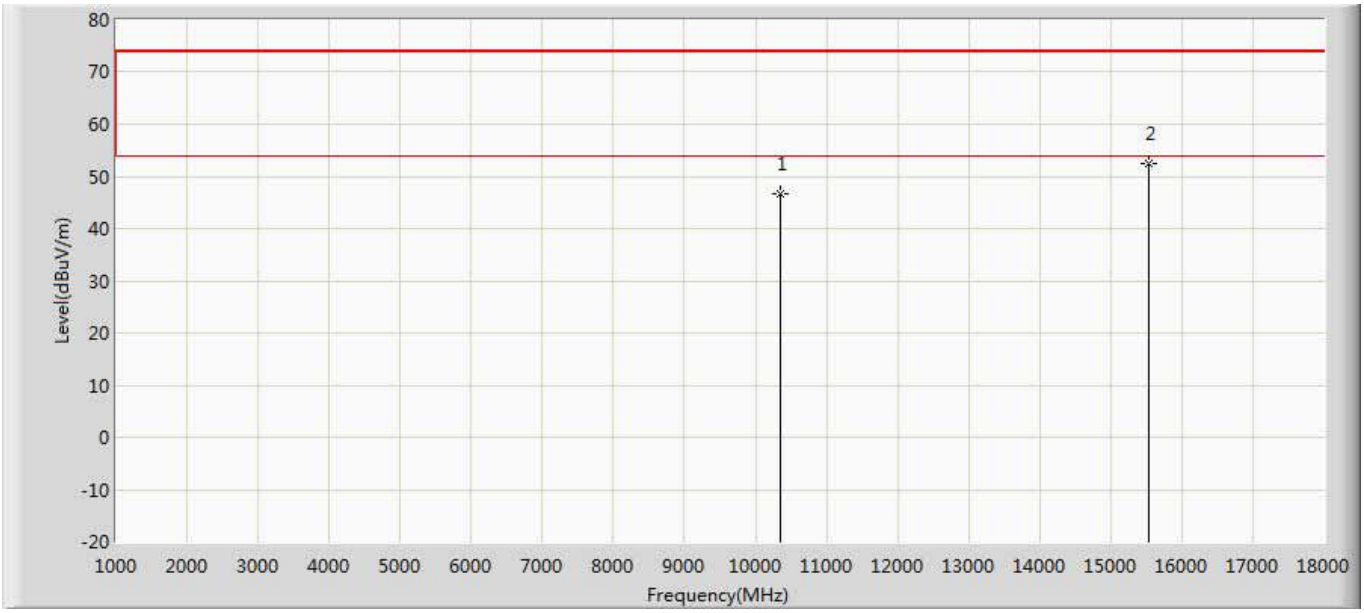
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11650.000	47.601	33.717	-26.399	74.000	13.884	PK
2	*	17475.000	52.552	32.568	-21.448	74.000	19.984	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/10 - 10:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5180MHz by 11n20	



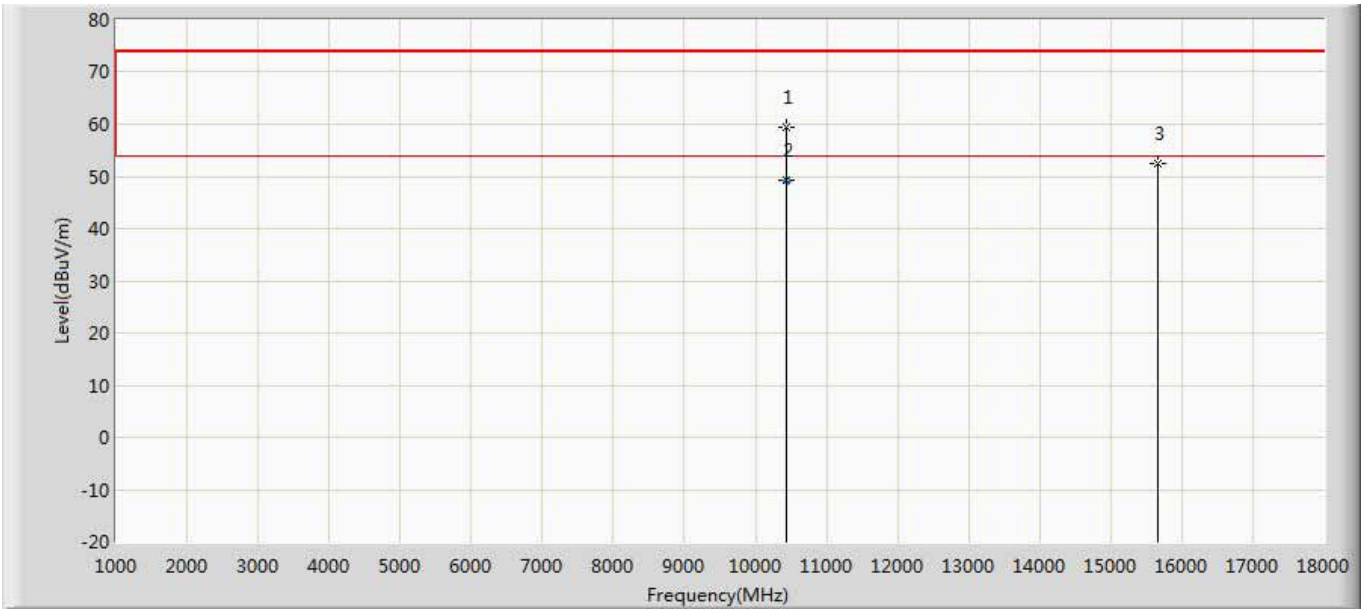
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	10359.890	49.680	37.880	-4.320	54.000	11.799	AV
2		10360.330	58.378	46.580	-15.622	74.000	11.799	PK
3		15540.000	52.475	34.854	-21.525	74.000	17.621	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5180MHz by 11n20	



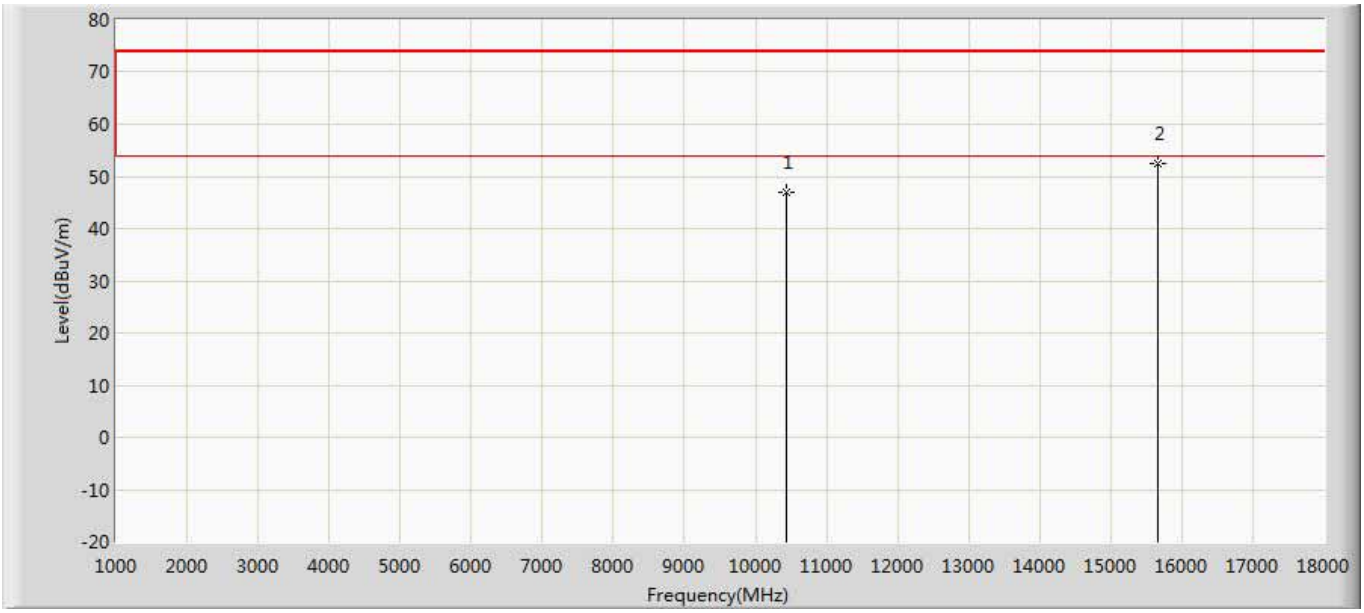
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10360.000	46.779	34.980	-27.221	74.000	11.799	PK
2	*	15540.000	52.475	34.854	-21.525	74.000	17.621	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/10 - 10:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 2Transmit at 5220MHz by 11n20	



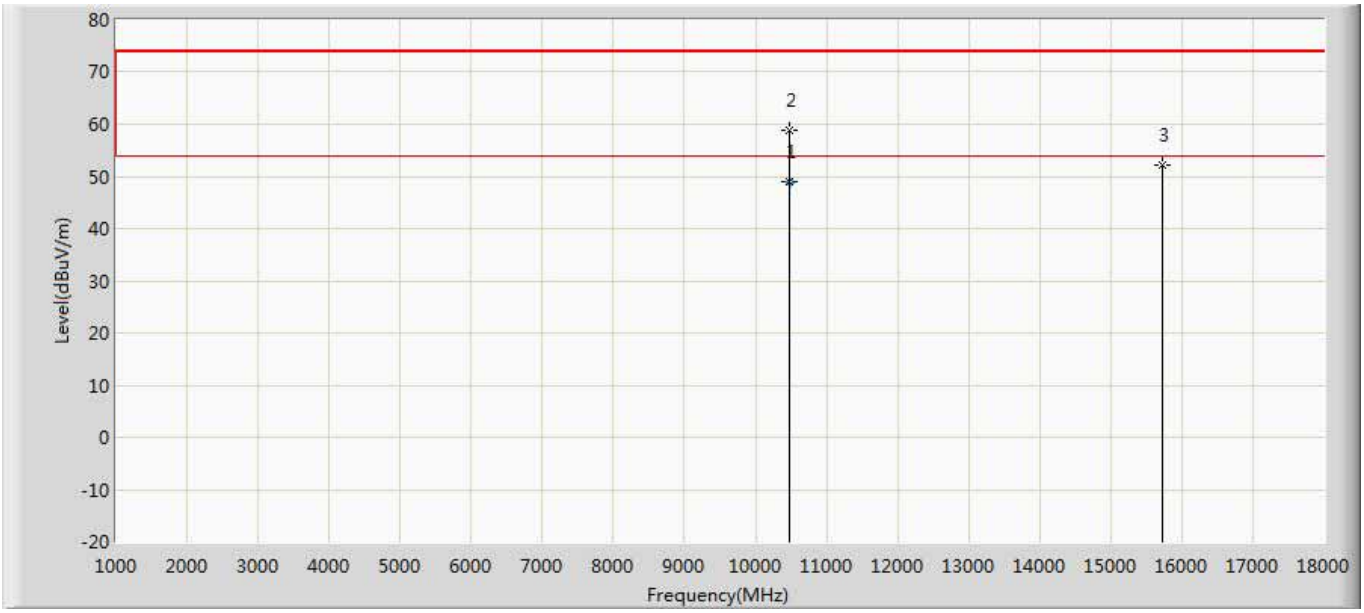
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10439.950	59.300	47.210	-14.700	74.000	12.091	PK
2	*	10440.030	49.326	37.240	-4.674	54.000	12.086	AV
3		15660.000	52.509	34.363	-21.491	74.000	18.146	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:30
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 2Transmit at 5220MHz by 11n20	



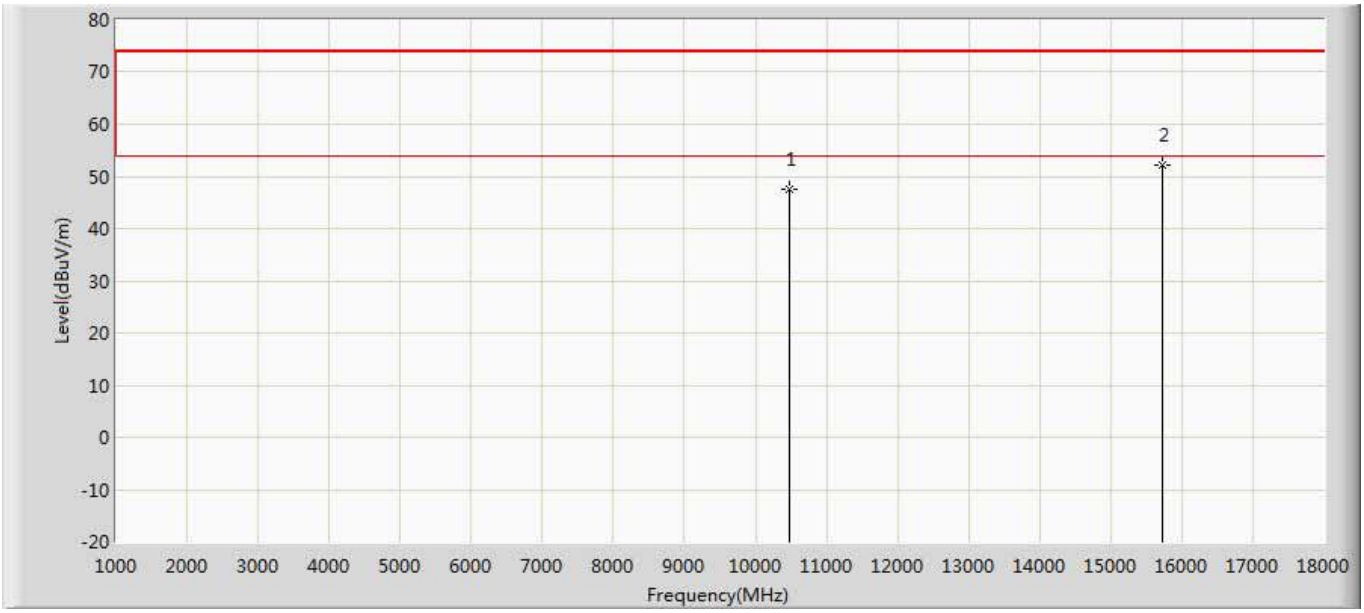
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10440.000	46.909	34.821	-27.091	74.000	12.088	PK
2	*	15660.000	52.509	34.363	-21.491	74.000	18.146	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/10 - 16:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5240MHz by 11n20	



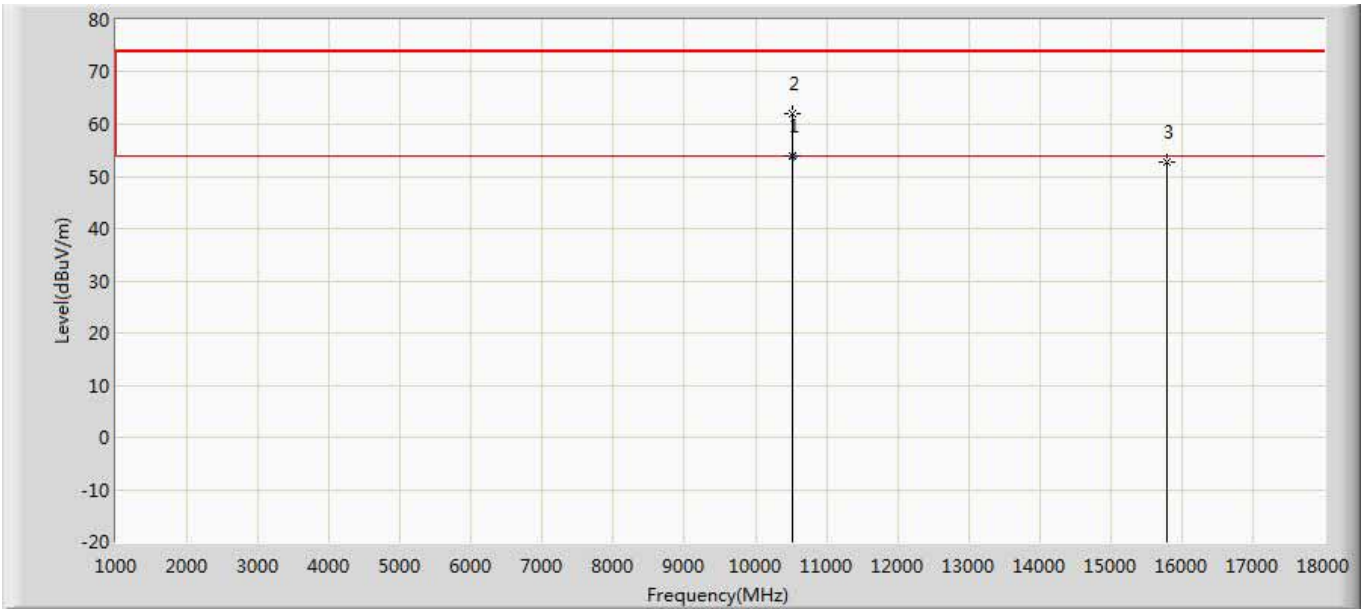
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	10480.010	48.951	37.240	-5.049	54.000	11.710	AV
2		10480.070	58.920	47.210	-15.080	74.000	11.710	PK
3		15720.000	52.074	33.756	-21.926	74.000	18.318	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:30
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5240MHz by 11n20	



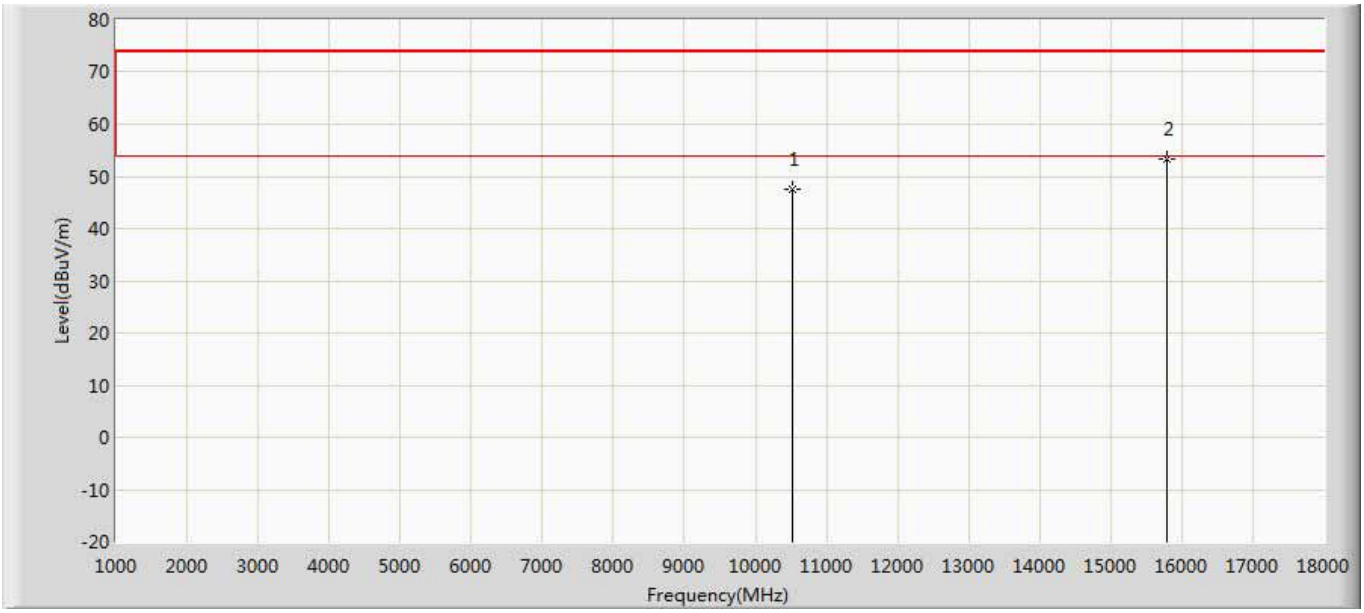
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10480.000	47.558	35.847	-26.442	74.000	11.711	PK
2	*	15720.000	52.074	33.756	-21.926	74.000	18.318	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 17:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5260MHz by 11n20	



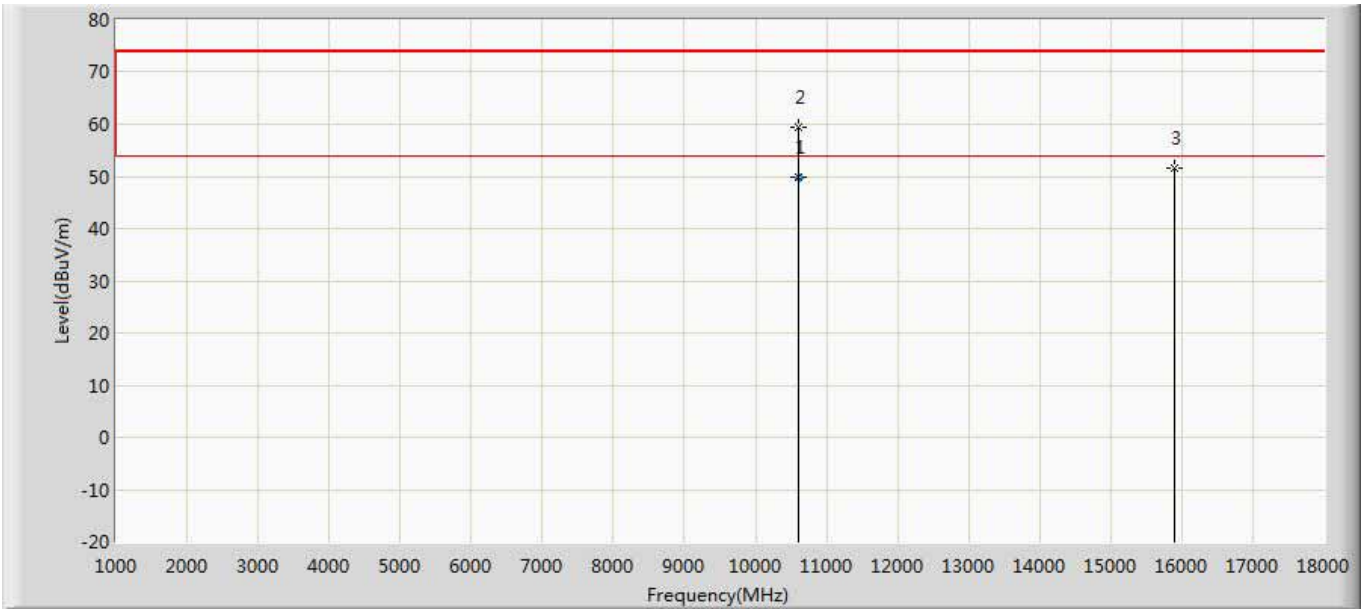
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	10519.230	53.948	39.210	-0.052	54.000	14.738	AV
2		10520.000	62.127	47.315	-11.873	74.000	14.812	PK
3		15780.000	52.689	33.210	-21.311	74.000	19.479	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:31
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5260MHz by 11n20	



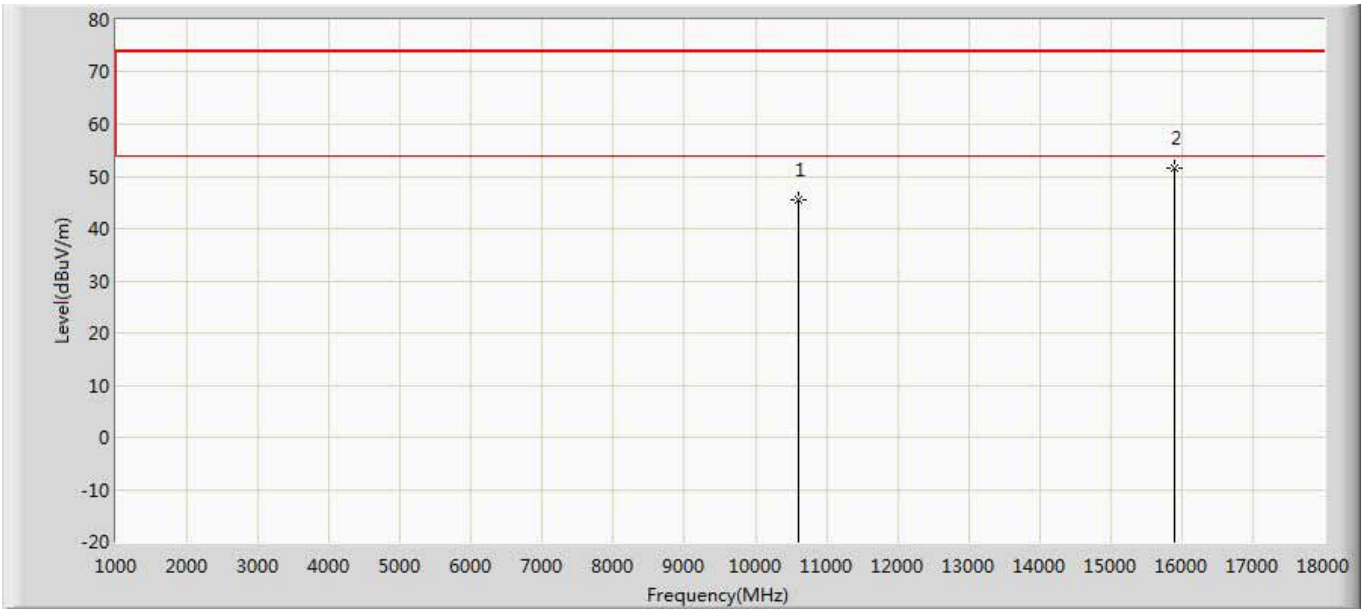
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10520.000	47.401	34.843	-26.599	74.000	12.558	PK
2	*	15780.000	53.278	35.021	-20.722	74.000	18.258	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/10 - 10:54
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5300MHz by 11n20	



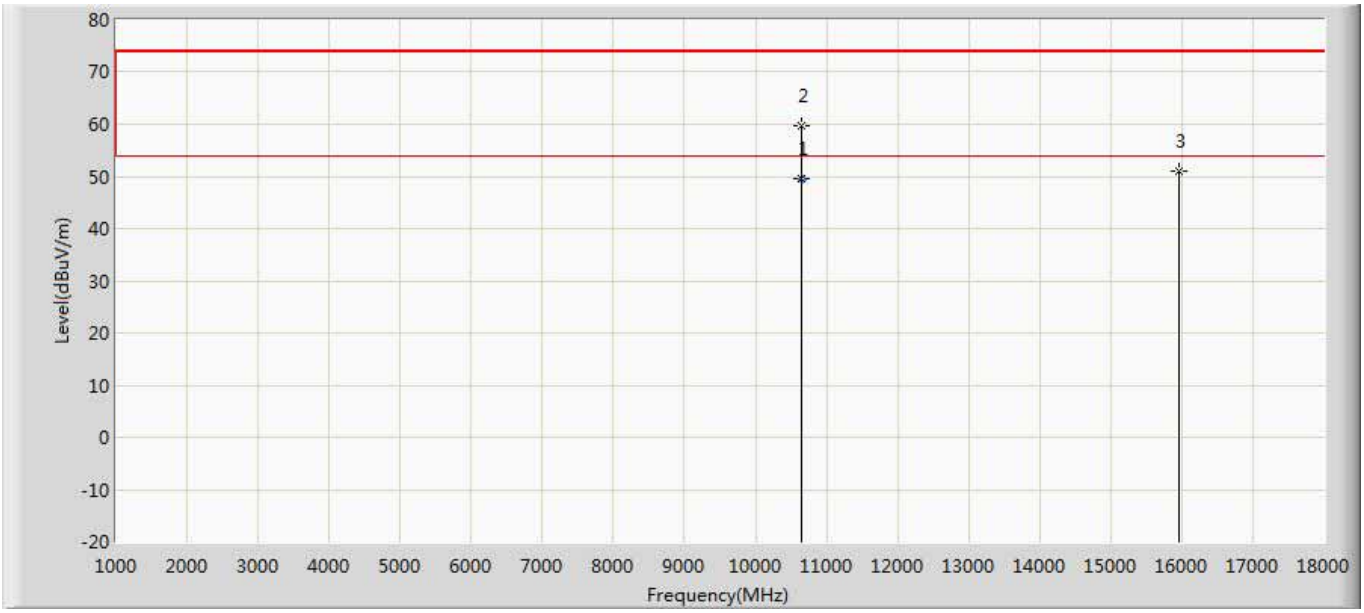
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	10600.020	49.731	37.680	-4.269	54.000	12.051	AV
2		10600.230	59.300	47.250	-14.700	74.000	12.050	PK
3		15900.000	51.595	33.073	-22.405	74.000	18.522	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:31
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5300MHz by 11n20	



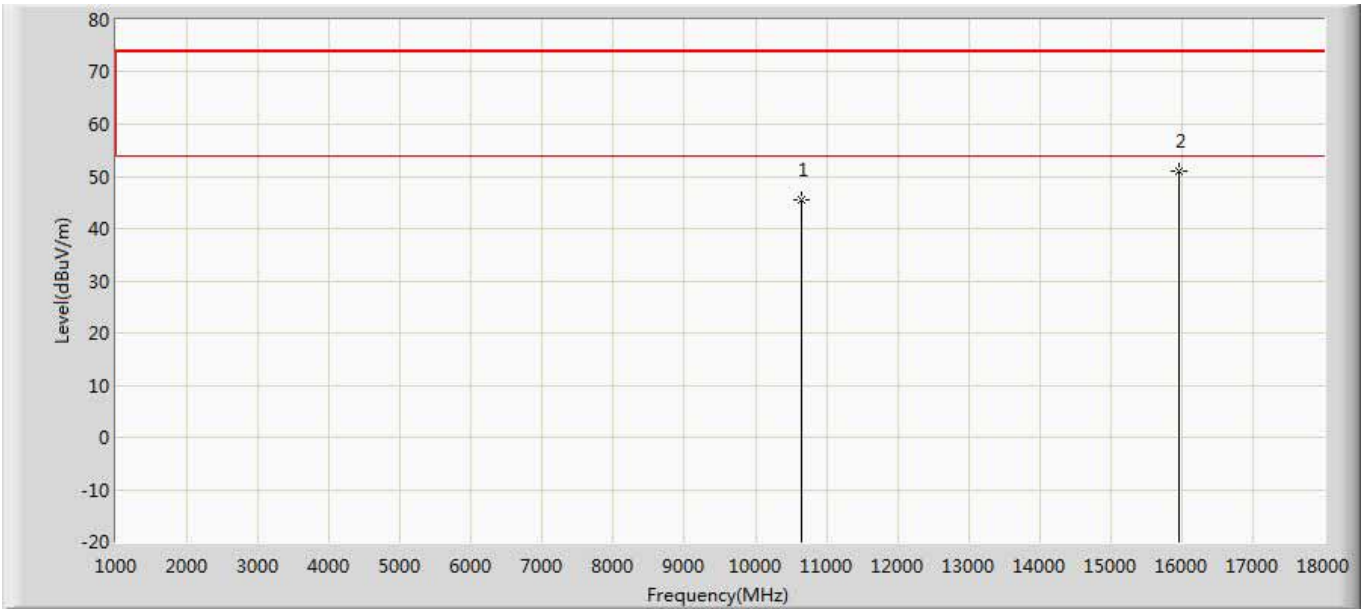
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10600.000	45.484	33.433	-28.516	74.000	12.051	PK
2	*	15900.000	51.595	33.073	-22.405	74.000	18.522	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/10 - 11:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5320MHz by 11n20	



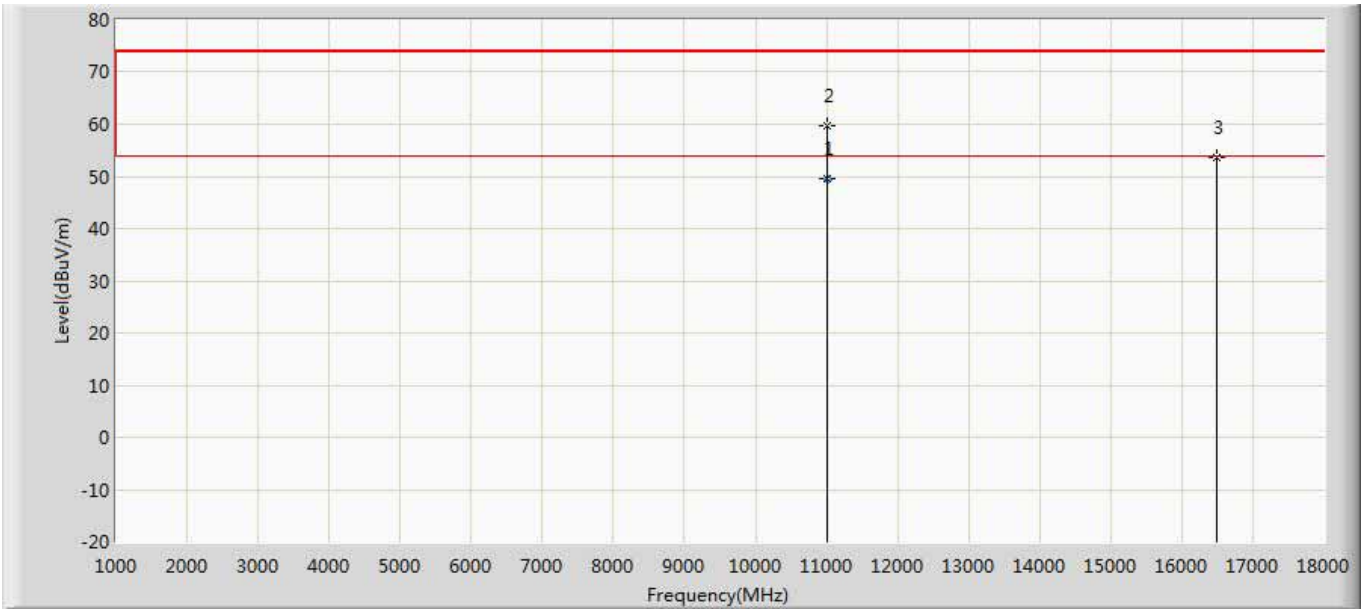
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	10639.880	49.710	37.670	-4.290	54.000	12.040	AV
2		10639.950	59.621	47.580	-14.379	74.000	12.042	PK
3		15960.000	51.047	32.584	-22.953	74.000	18.463	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:31
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5320MHz by 11n20	



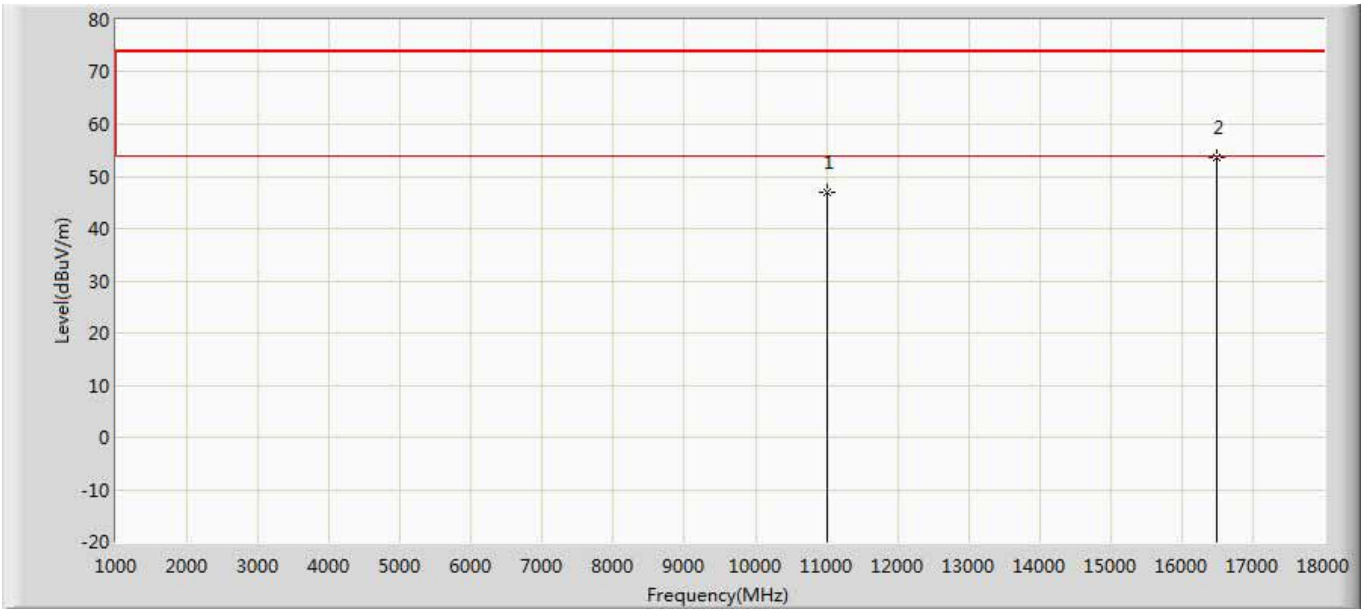
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10640.000	45.436	33.394	-28.564	74.000	12.042	PK
2	*	15960.000	51.047	32.584	-22.953	74.000	18.463	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/10 - 14:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5500MHz by 11n20	



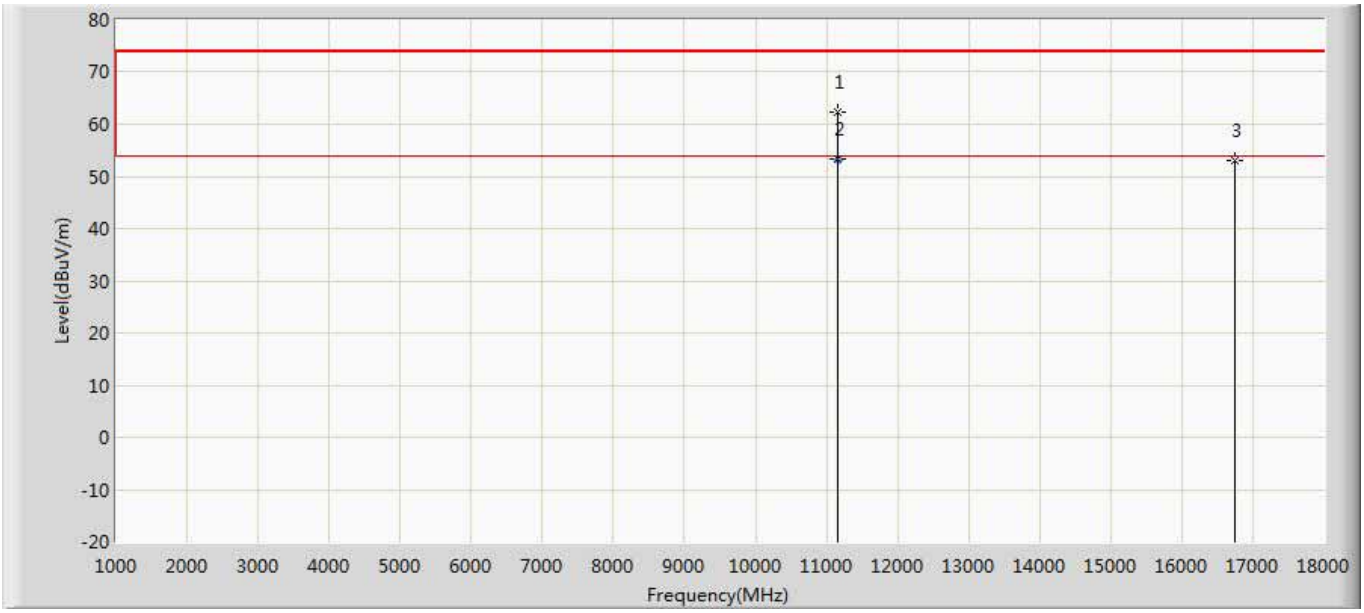
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	10999.960	49.498	36.970	-4.502	54.000	12.527	AV
2		11000.250	59.574	47.030	-14.426	74.000	12.545	PK
3		16500.000	53.567	34.477	-20.433	74.000	19.090	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5500MHz by 11n20	



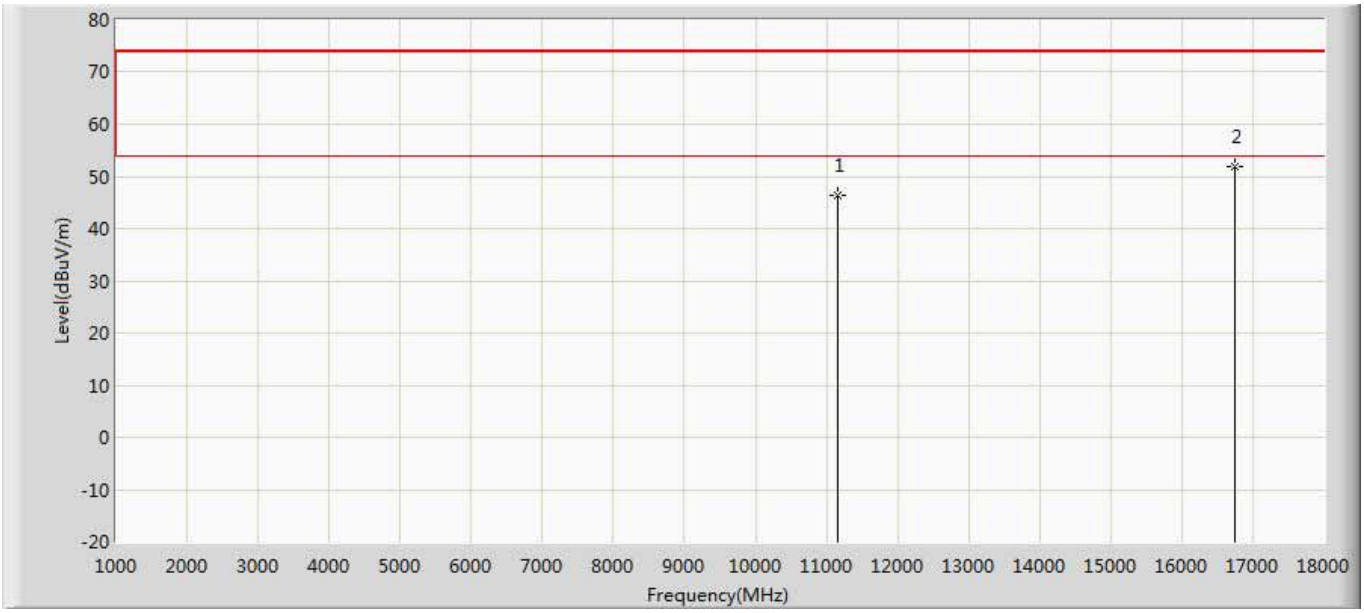
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11000.000	47.056	34.526	-26.944	74.000	12.529	PK
2	*	16500.000	53.567	34.477	-20.433	74.000	19.090	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 17:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5580MHz by 11n20	



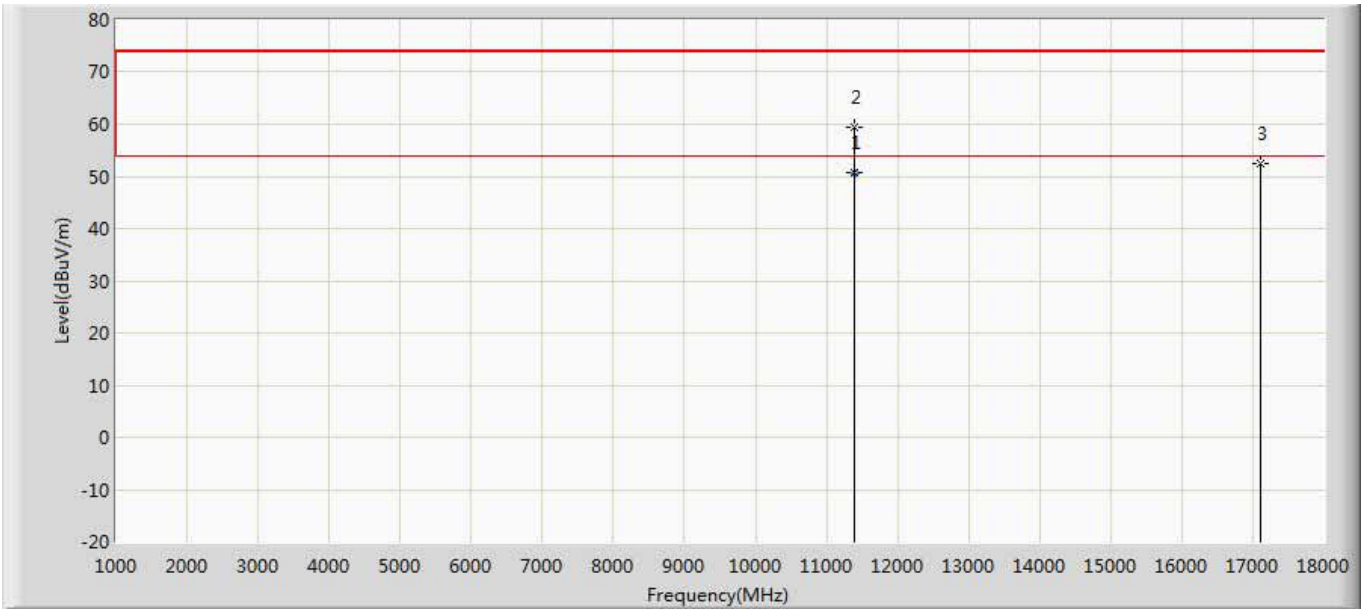
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11149.000	62.374	46.994	-11.626	74.000	15.380	PK
2	*	11159.900	53.324	38.845	-0.676	54.000	14.479	AV
3		16740.000	52.999	32.351	-21.001	74.000	20.648	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5580MHz by 11n20	



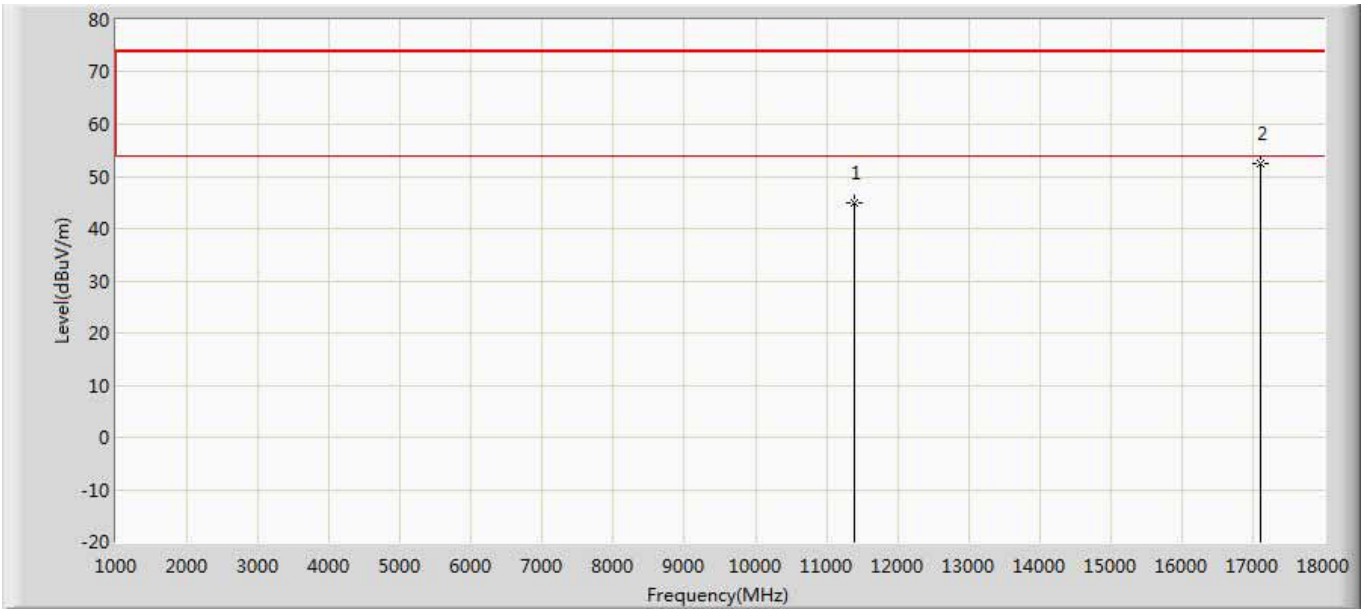
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11160.000	46.246	33.253	-27.754	74.000	12.994	PK
2	*	16740.000	52.001	32.693	-21.999	74.000	19.308	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/10 - 14:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5700MHz by 11n20	



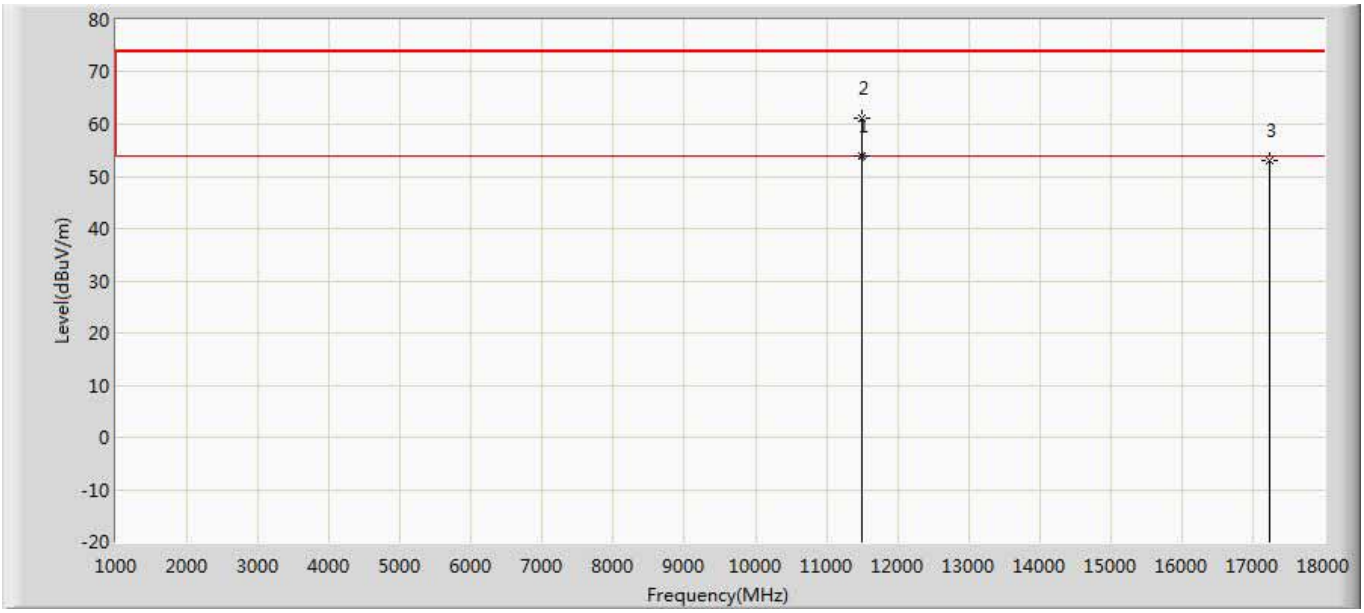
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11400.070	50.705	37.220	-3.295	54.000	13.485	AV
2		11400.230	59.529	46.050	-14.471	74.000	13.479	PK
3		17100.000	52.525	32.725	-21.475	74.000	19.800	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5700MHz by 11n20	



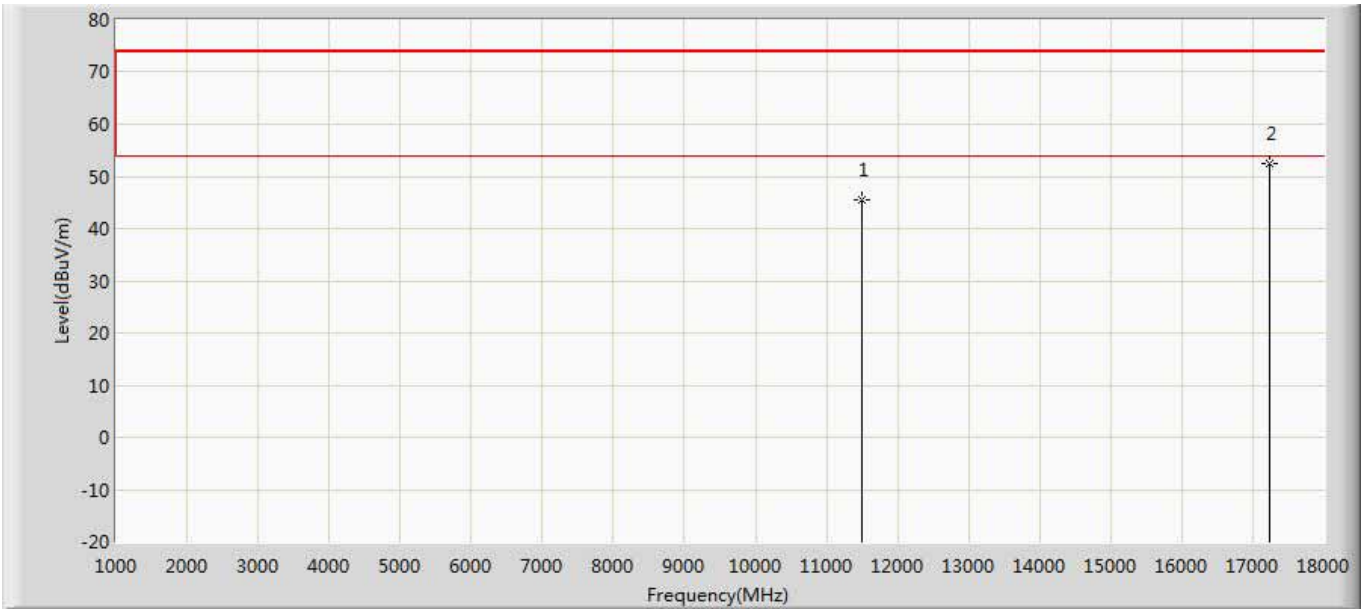
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11400.000	44.890	31.403	-29.110	74.000	13.488	PK
2	*	17100.000	52.525	32.725	-21.475	74.000	19.800	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 17:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5745MHz by 11n20	



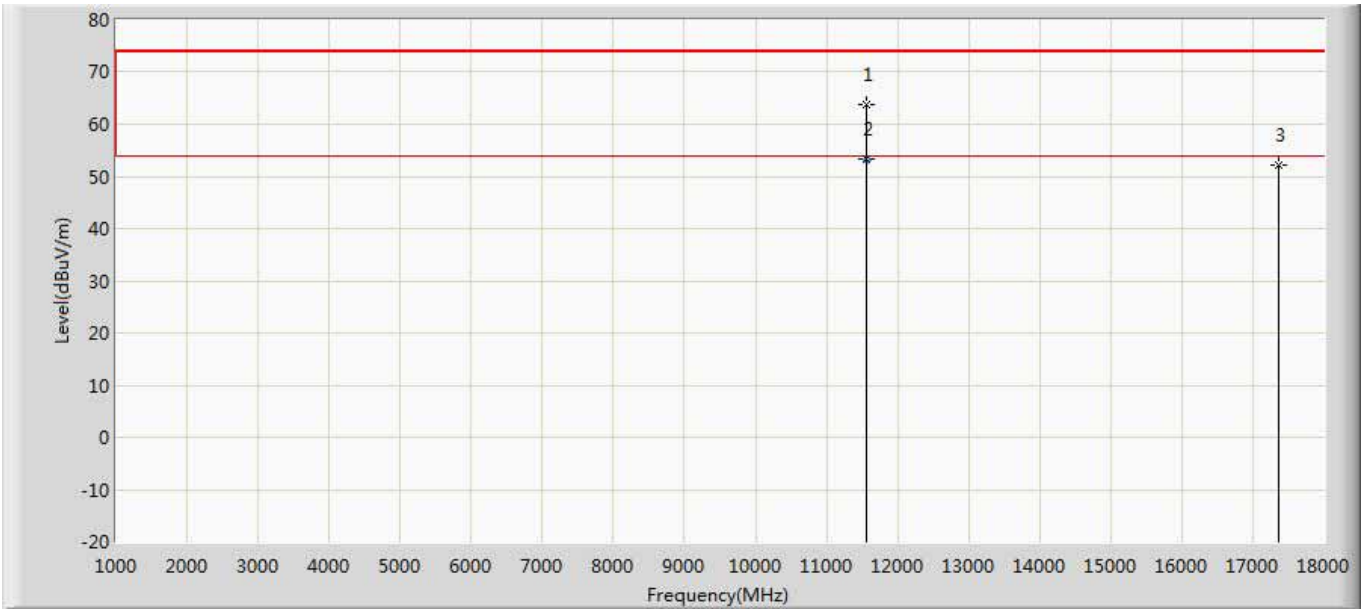
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11487.900	53.835	38.715	-0.165	54.000	15.120	AV
2		11489.000	61.043	46.000	-12.957	74.000	15.043	PK
3		17235.000	52.968	33.489	-21.032	74.000	19.479	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:33
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5745MHz by 11n20	



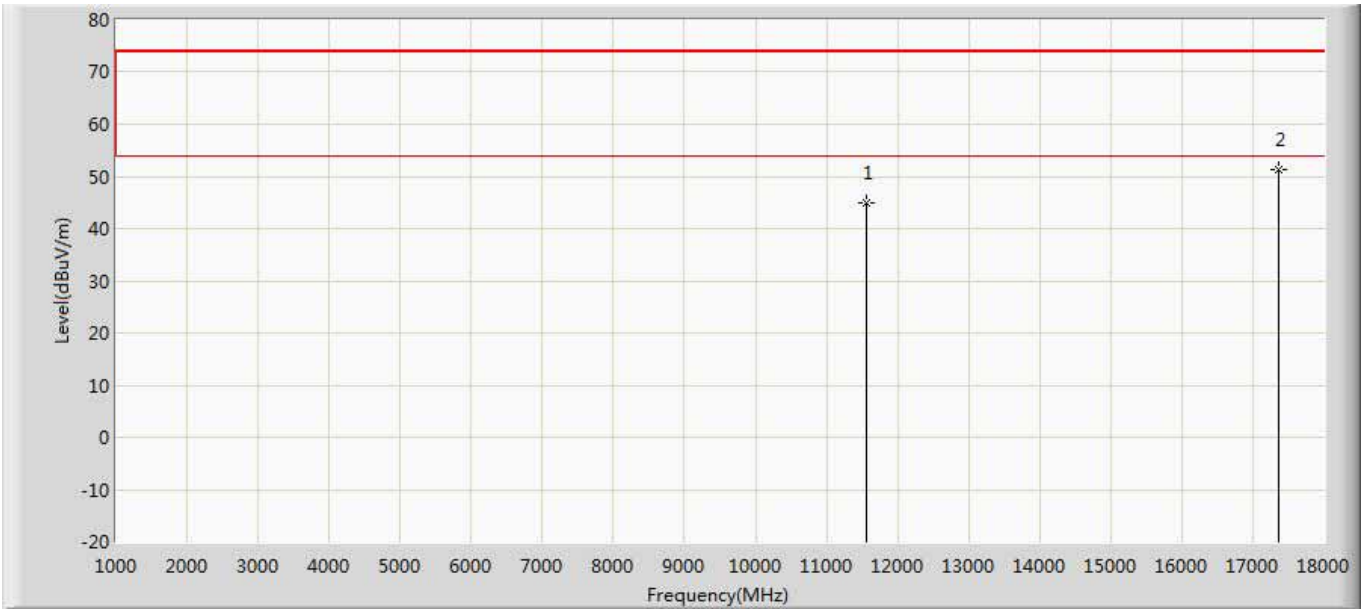
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11490.000	45.399	32.207	-28.601	74.000	13.192	PK
2	*	17235.000	52.408	32.437	-21.592	74.000	19.971	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 17:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5785MHz by 11n20	



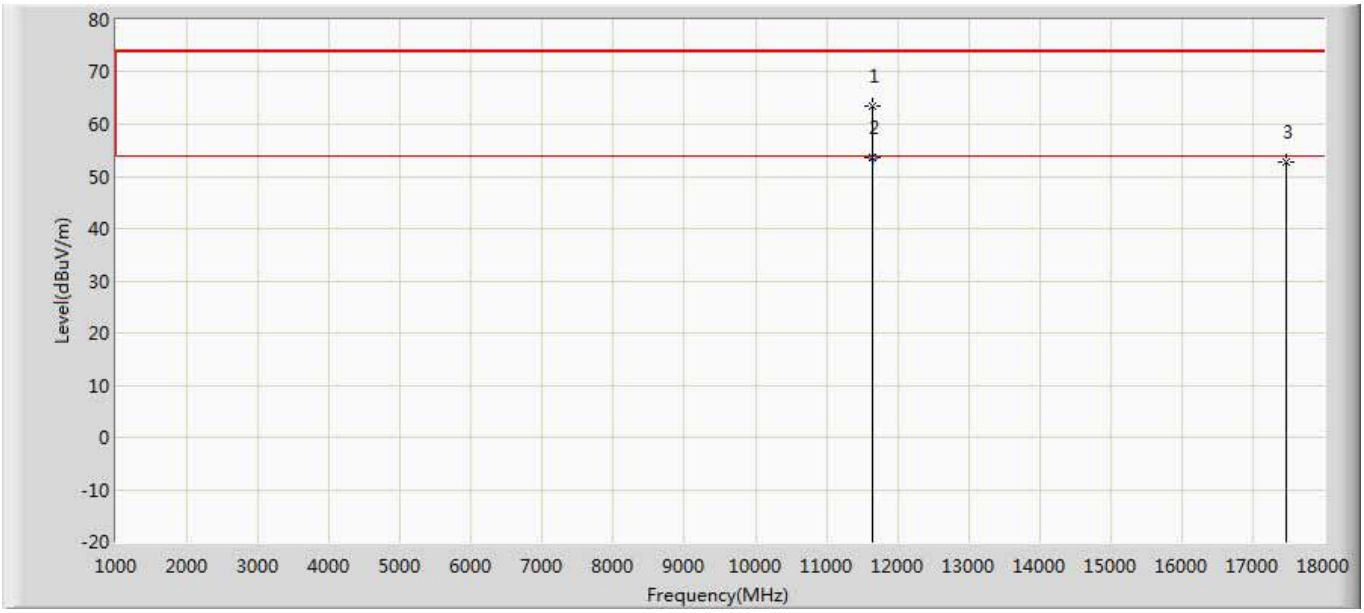
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11565.500	63.827	47.484	-10.173	74.000	16.342	PK
2	*	11568.100	53.435	37.188	-0.565	54.000	16.247	AV
3		17355.000	52.124	31.540	-21.876	74.000	20.584	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:33
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5785MHz by 11n20	



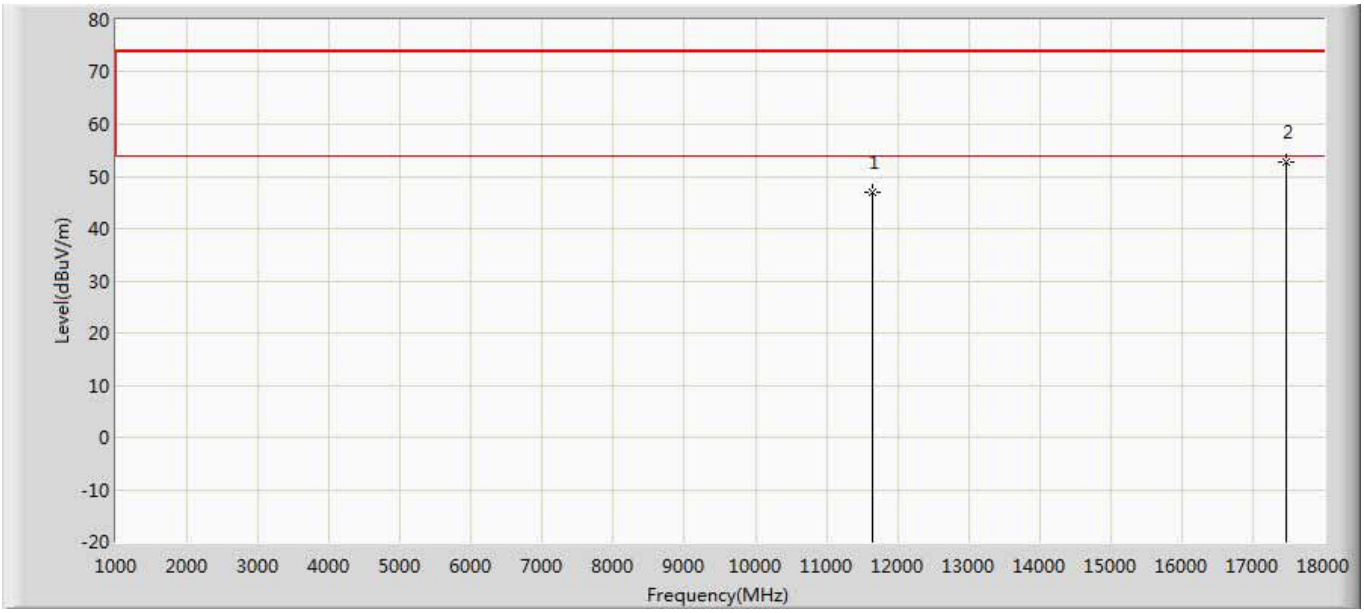
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11570.000	44.877	31.339	-29.123	74.000	13.539	PK
2	*	17355.000	51.370	31.464	-22.630	74.000	19.906	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 17:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5825MHz by 11n20	



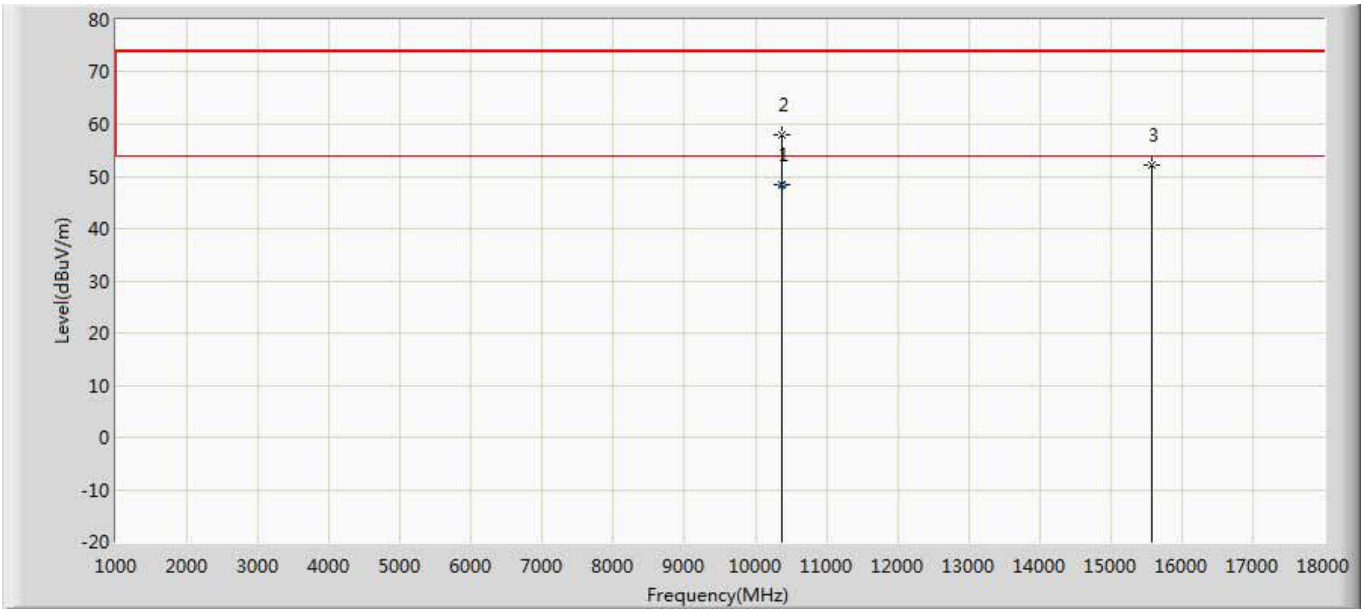
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11642.000	63.556	46.813	-10.444	74.000	16.743	PK
2	*	11648.050	53.510	36.958	-0.490	54.000	16.552	AV
3		17475.000	52.867	32.660	-21.133	74.000	20.208	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5825MHz by 11n20	



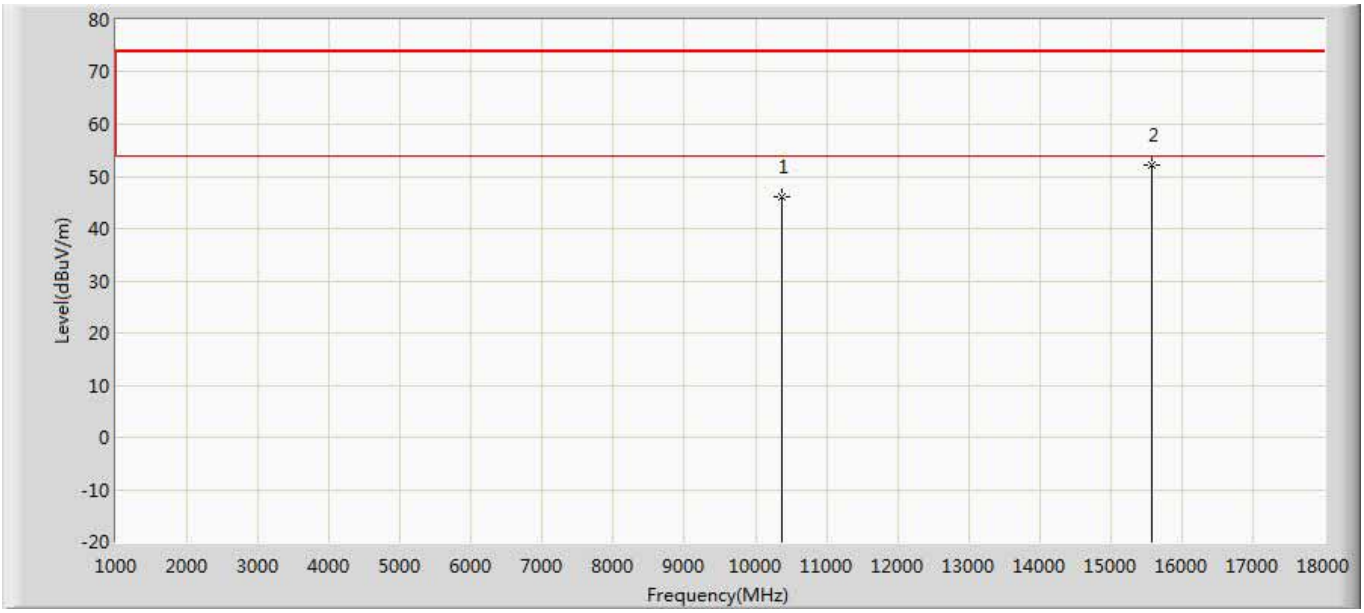
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11650.000	46.870	32.986	-27.130	74.000	13.884	PK
2	*	17475.000	52.649	32.665	-21.351	74.000	19.984	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/10 - 15:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5190MHz by 11n40	



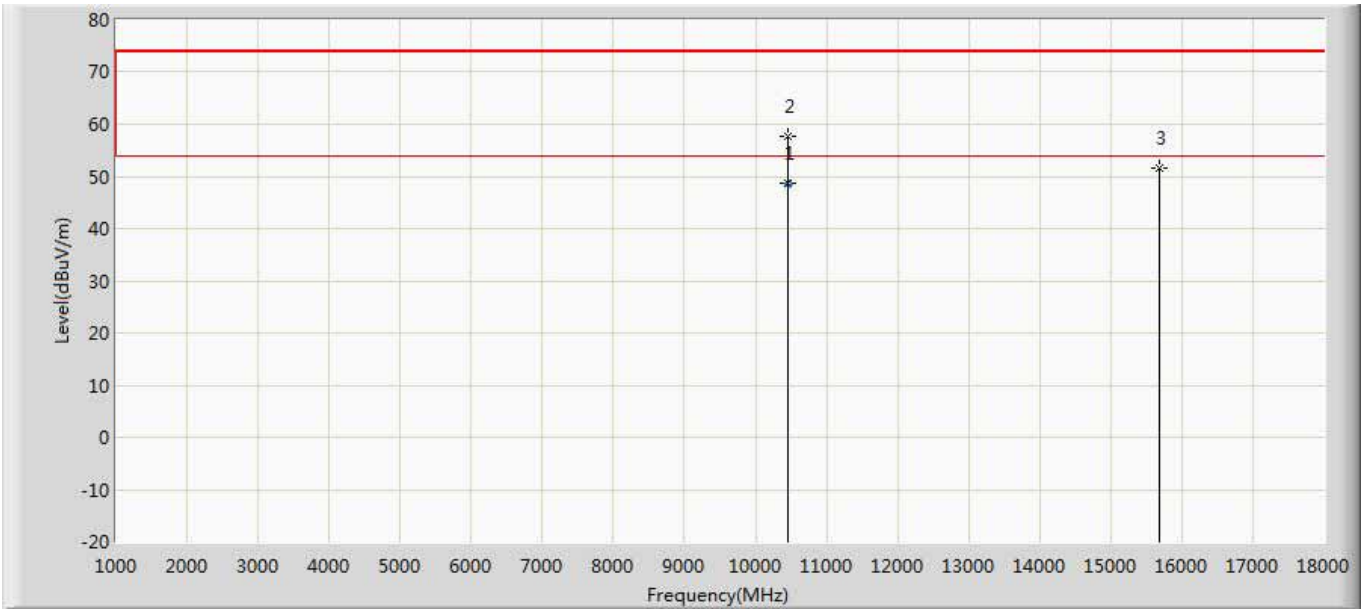
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	10380.060	48.462	36.770	-5.538	54.000	11.691	AV
2		10380.110	57.891	46.200	-16.109	74.000	11.692	PK
3		15570.000	52.260	33.911	-21.740	74.000	18.349	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5190MHz by 11n40	



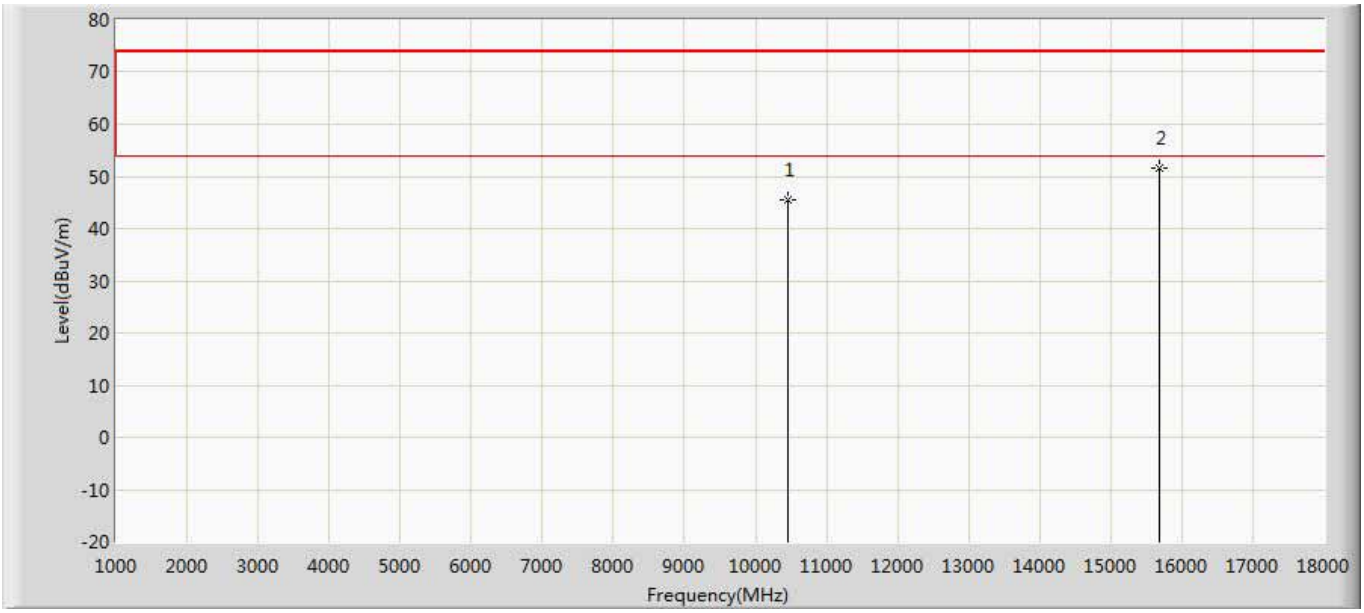
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10380.000	46.044	34.352	-27.956	74.000	11.692	PK
2	*	15570.000	52.260	33.911	-21.740	74.000	18.349	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/10 - 15:16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5230MHz by 11n40	



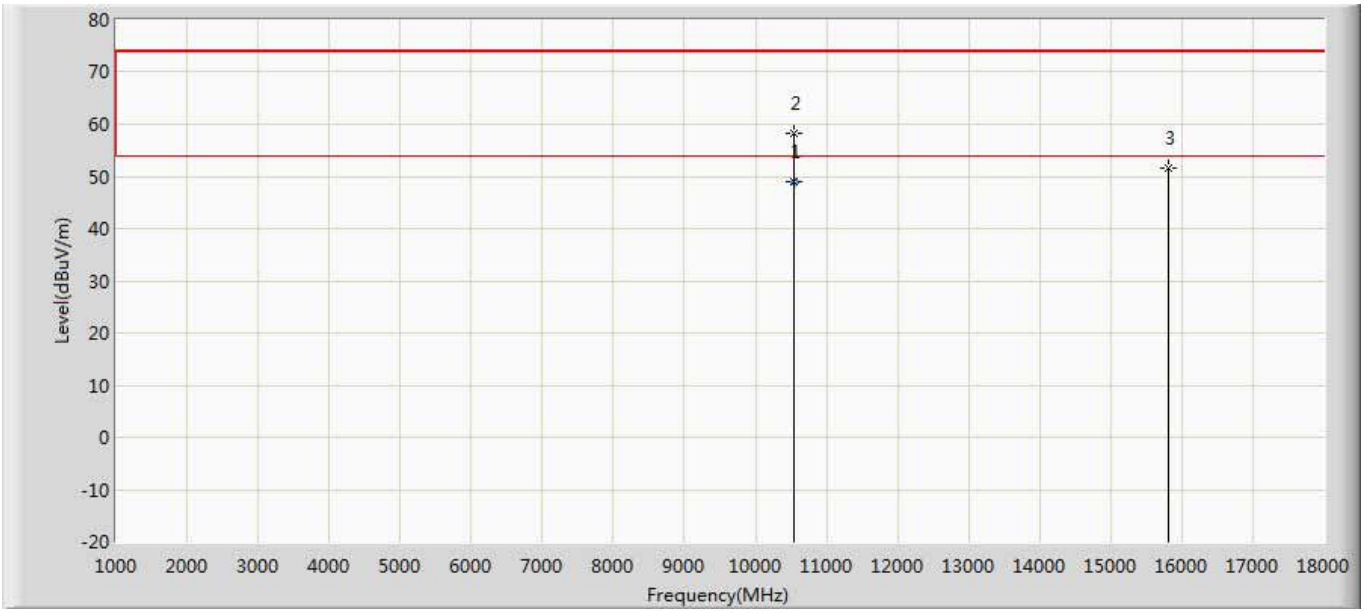
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	10459.880	48.830	37.230	-5.170	54.000	11.601	AV
2		10459.960	57.652	46.050	-16.348	74.000	11.602	PK
3		15690.000	51.708	33.215	-22.292	74.000	18.493	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5230MHz by 11n40	



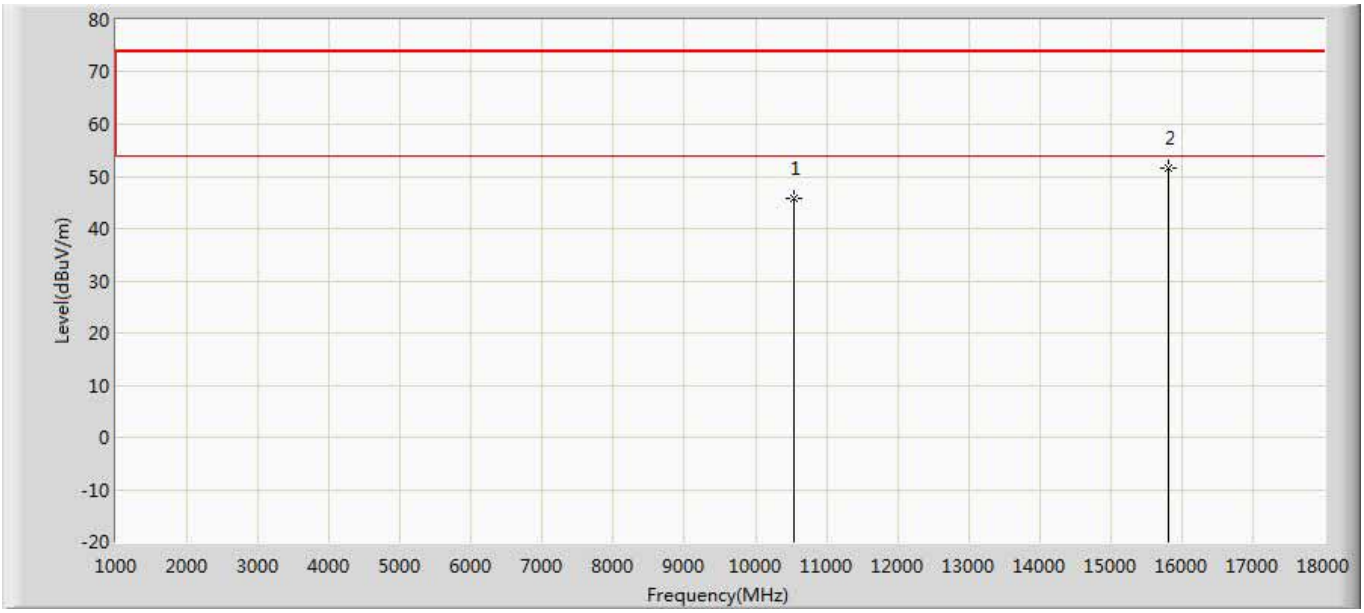
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10460.000	45.426	33.823	-28.574	74.000	11.603	PK
2	*	15690.000	51.708	33.215	-22.292	74.000	18.493	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/10 - 15:20
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5270MHz by 11n40	



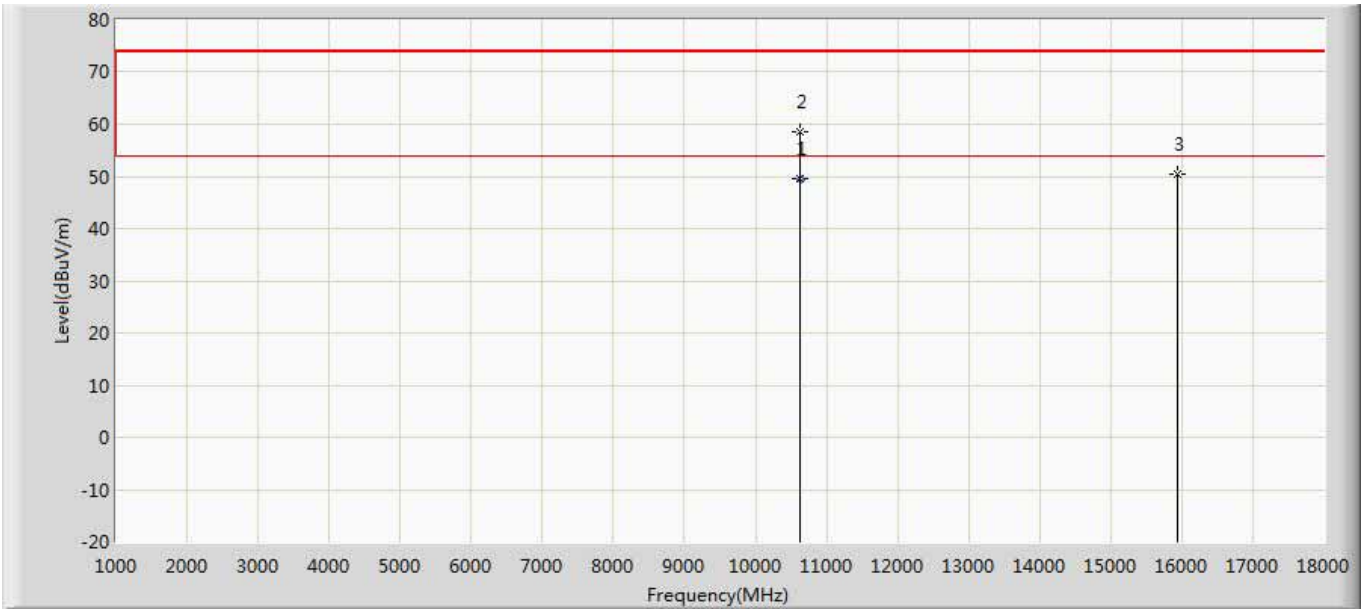
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	10540.240	48.998	37.260	-5.002	54.000	11.738	AV
2		10540.390	58.311	46.570	-15.689	74.000	11.741	PK
3		15810.000	51.459	32.983	-22.541	74.000	18.477	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5270MHz by 11n40	



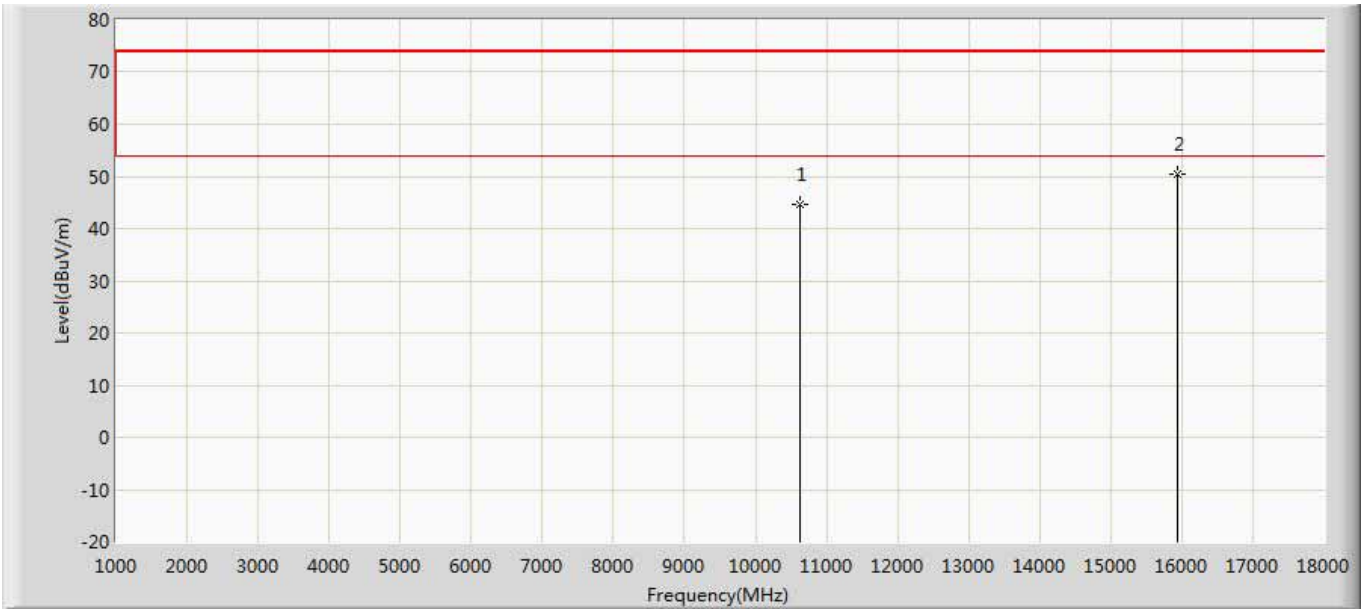
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10540.000	45.833	34.101	-28.167	74.000	11.733	PK
2	*	15810.000	51.459	32.983	-22.541	74.000	18.477	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/10 - 15:22
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5310MHz by 11n40	



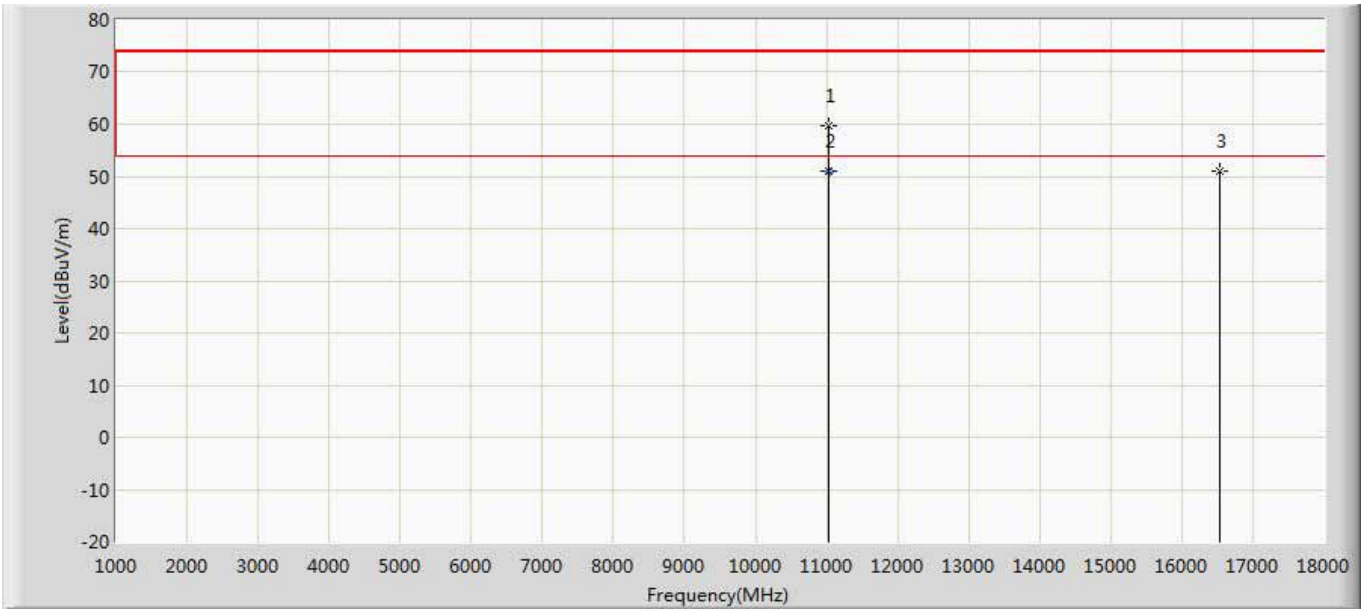
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	10619.760	49.699	37.840	-4.301	54.000	11.860	AV
2		10619.850	58.408	46.550	-15.592	74.000	11.859	PK
3		15930.000	50.517	31.871	-23.483	74.000	18.646	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5310MHz by 11n40	



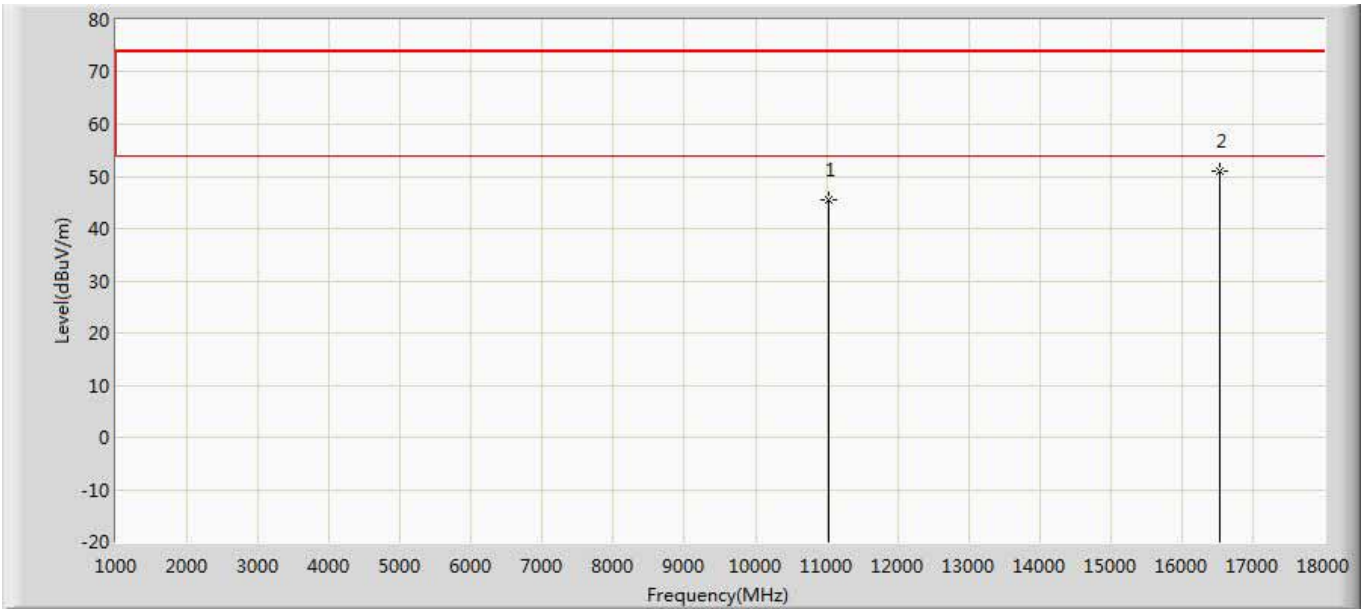
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10620.000	44.689	32.832	-29.311	74.000	11.857	PK
2	*	15930.000	50.517	31.871	-23.483	74.000	18.646	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/10 - 15:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5510MHz by 11n40	



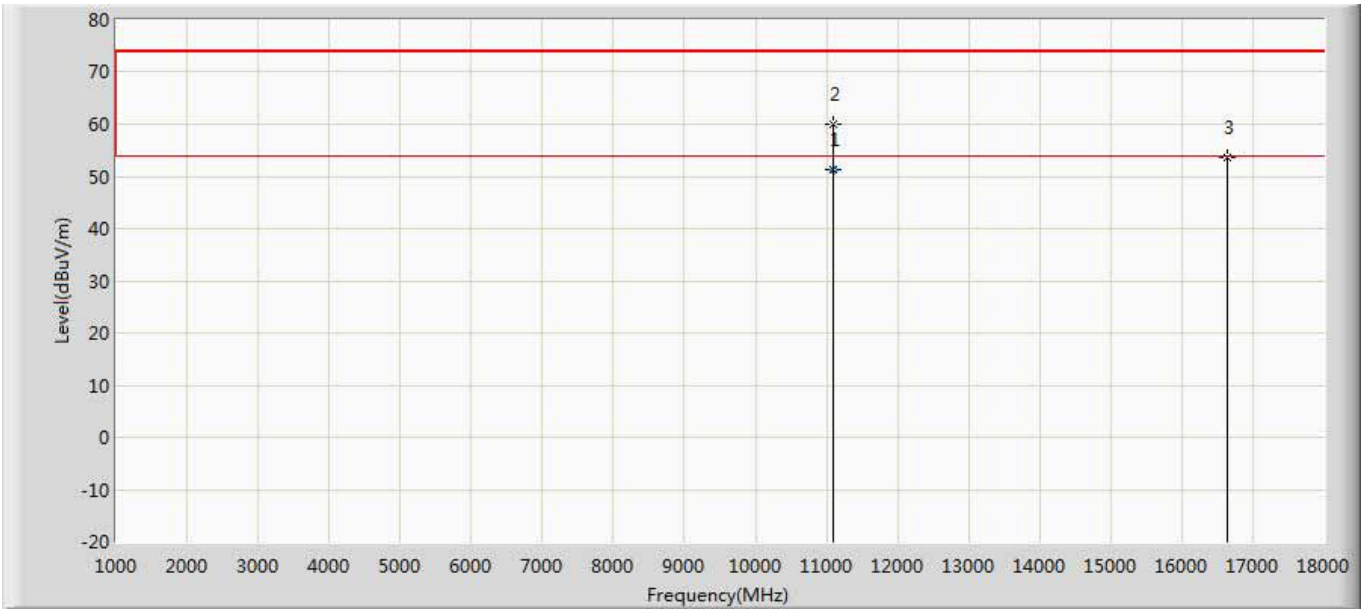
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11020.040	59.847	46.770	-14.153	74.000	13.077	PK
2	*	11020.350	51.089	38.020	-2.911	54.000	13.069	AV
3		16530.000	50.915	31.914	-23.085	74.000	19.001	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5510MHz by 11n40	



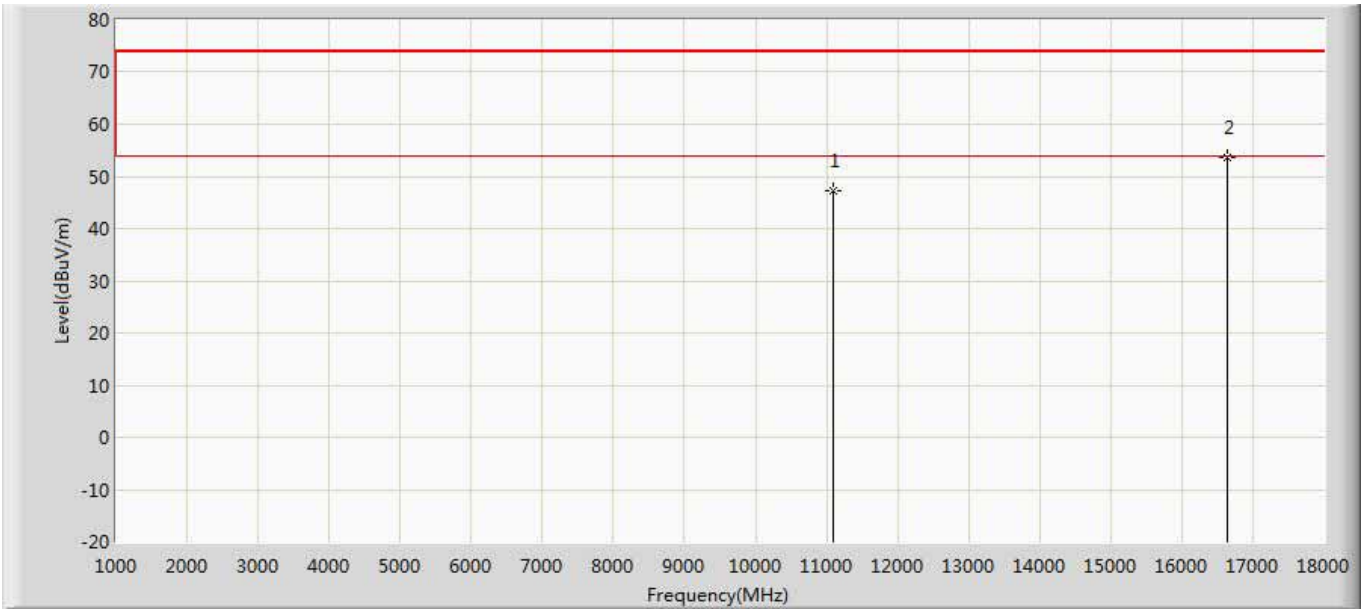
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11020.000	45.447	32.369	-28.553	74.000	13.078	PK
2	*	16530.000	50.915	31.914	-23.085	74.000	19.001	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/10 - 15:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5550MHz by 11n40	



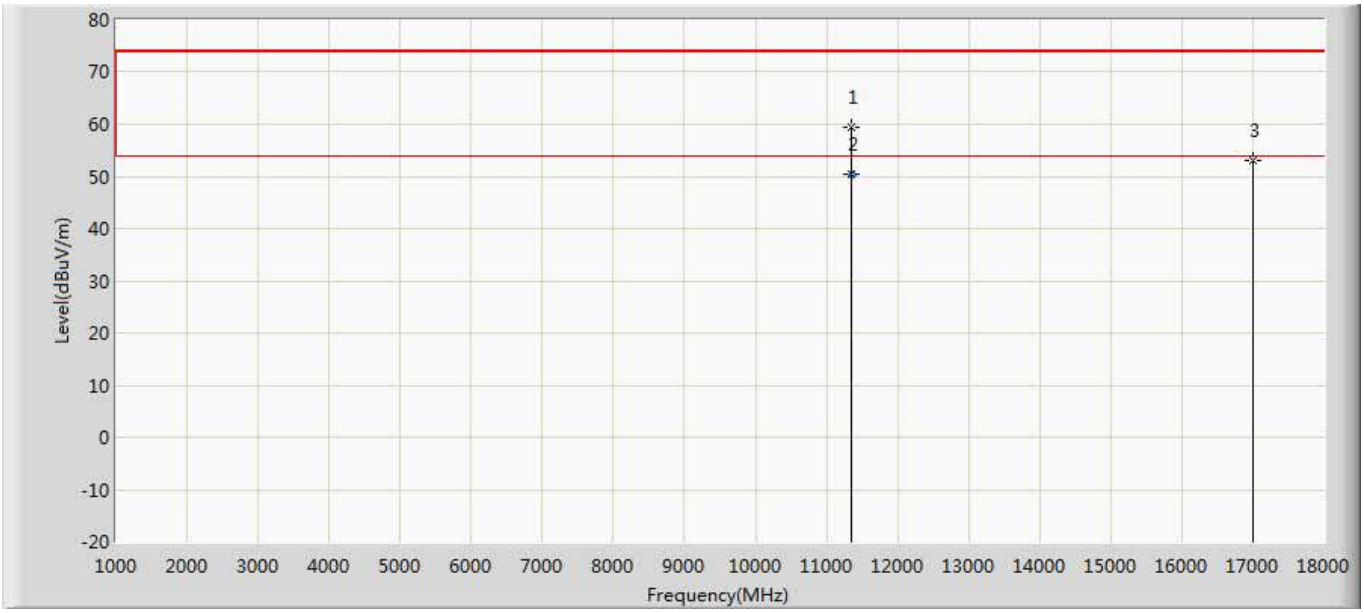
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11100.050	51.357	38.240	-2.643	54.000	13.117	AV
2		11100.390	59.931	46.830	-14.069	74.000	13.100	PK
3		16650.000	53.594	33.456	-20.406	74.000	20.138	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5550MHz by 11n40	



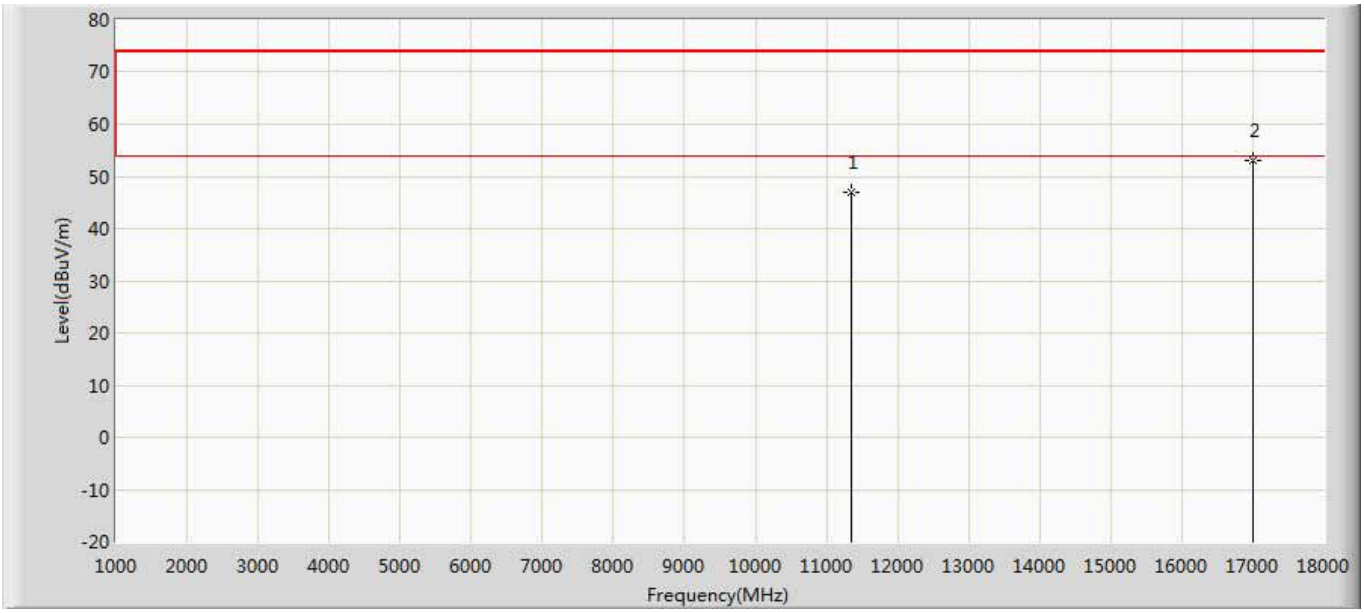
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11100.000	47.281	34.161	-26.719	74.000	13.120	PK
2	*	16650.000	53.594	33.456	-20.406	74.000	20.138	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/10 - 15:30
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5670MHz by 11n40	



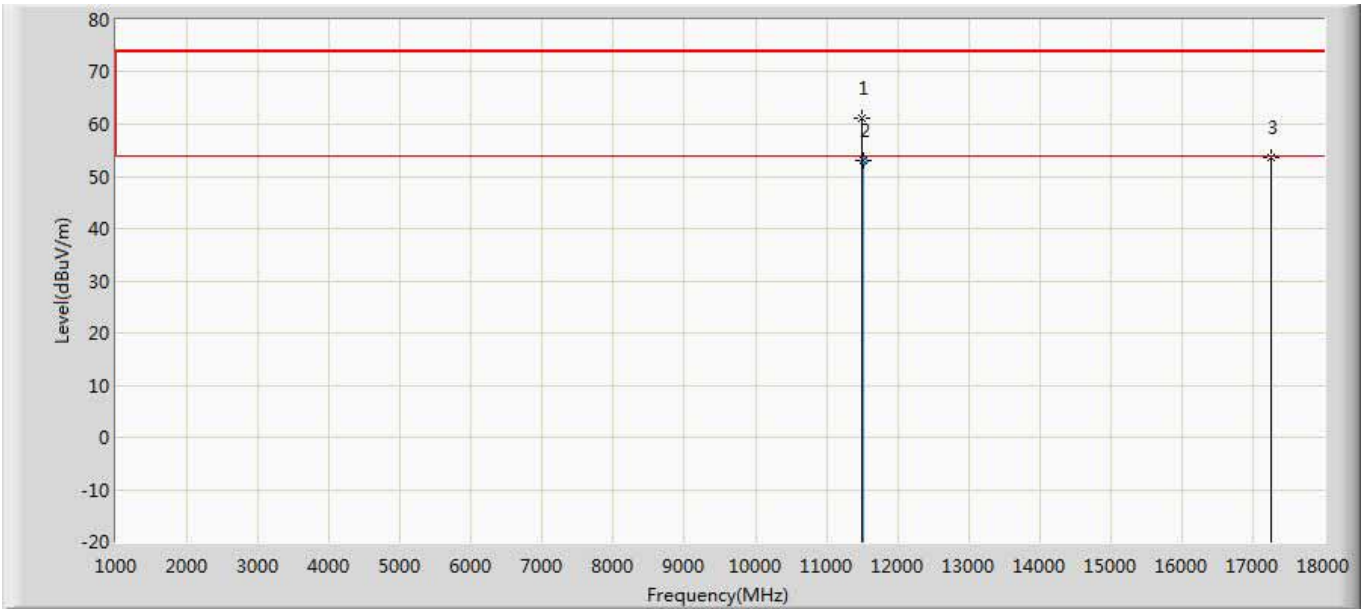
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11339.690	59.290	46.010	-14.710	74.000	13.279	PK
2	*	11339.800	50.572	37.290	-3.428	54.000	13.281	AV
3		17010.000	53.168	33.014	-20.832	74.000	20.154	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5670MHz by 11n40	



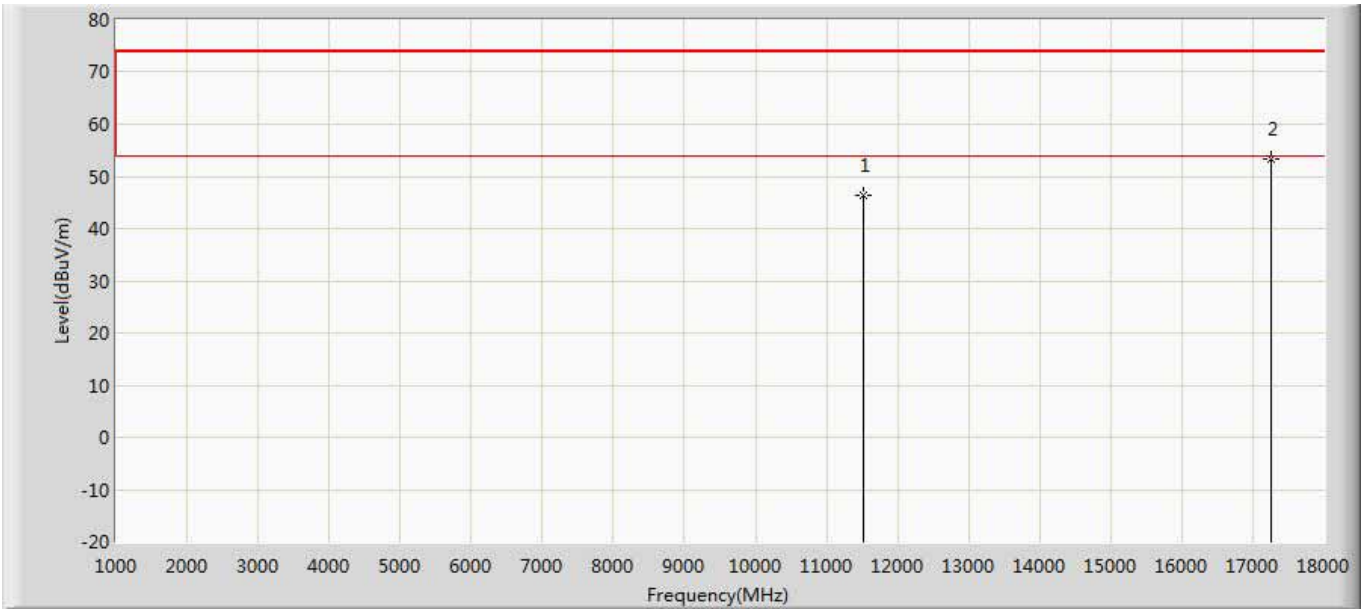
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11340.000	46.916	33.630	-27.084	74.000	13.286	PK
2	*	17010.000	53.168	33.014	-20.832	74.000	20.154	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 17:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5755MHz by 11n40	



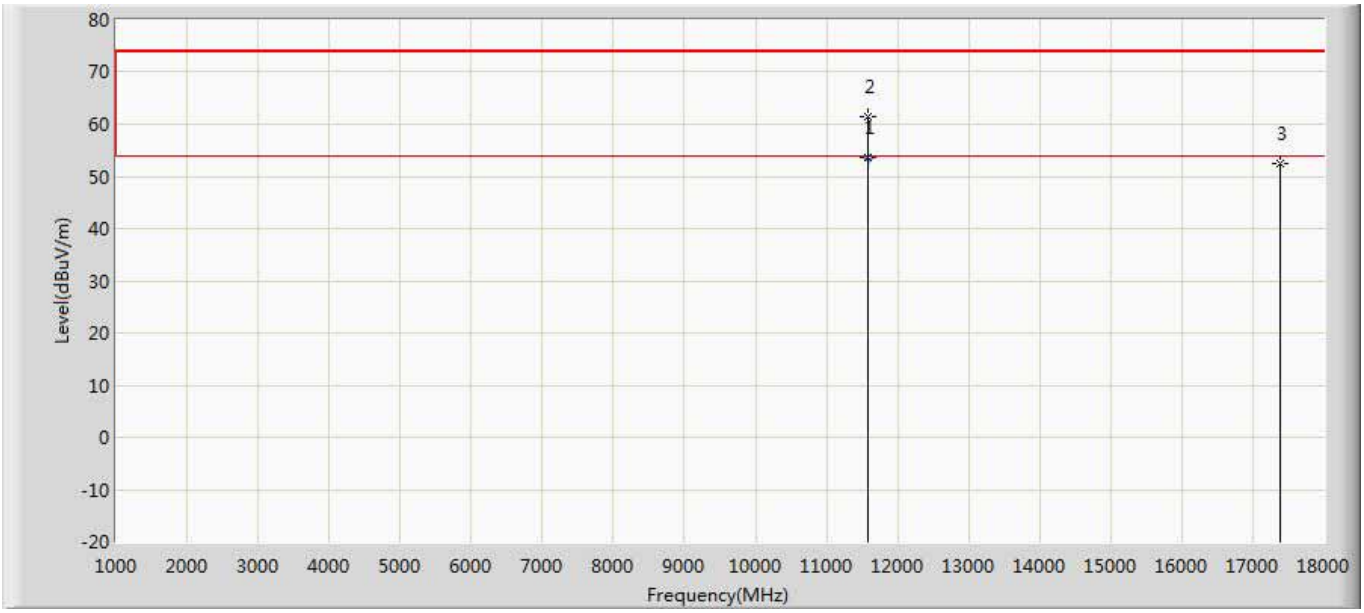
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11506.000	61.054	45.316	-12.946	74.000	15.738	PK
2	*	11510.100	52.926	37.240	-1.074	54.000	15.686	AV
3		17265.000	53.488	32.840	-20.512	74.000	20.647	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5755MHz by 11n40	



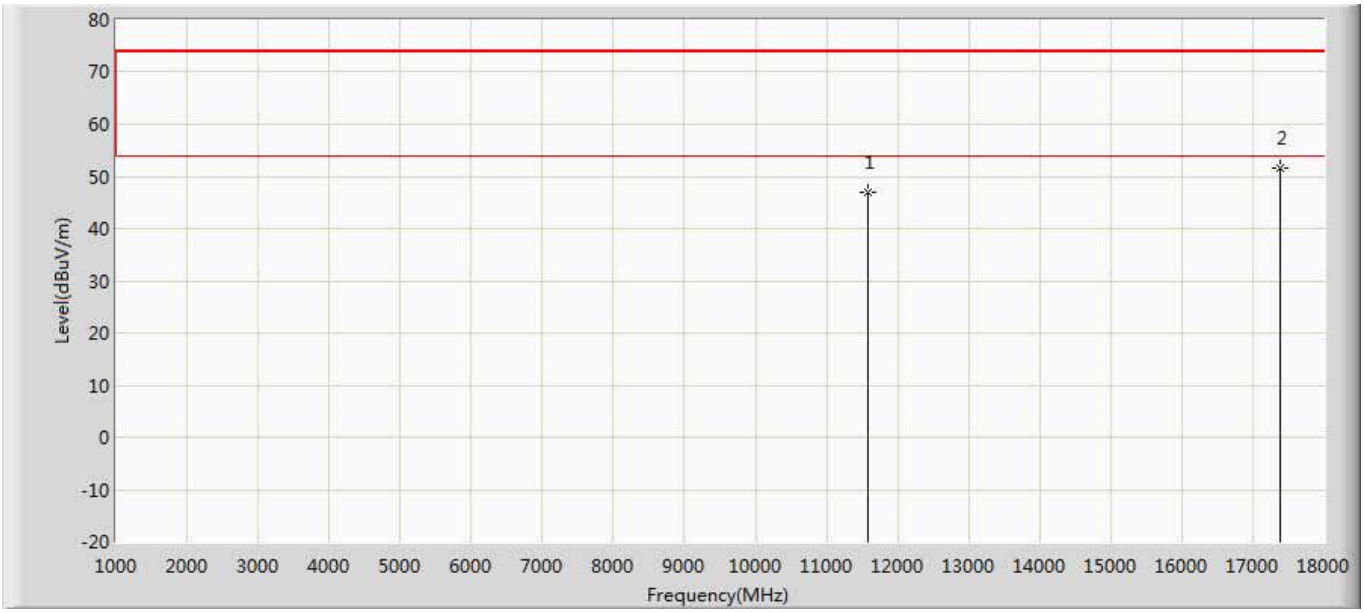
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11510.000	46.490	32.678	-27.510	74.000	13.811	PK
2	*	17265.000	53.221	32.703	-20.779	74.000	20.518	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 17:50
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5795MHz by 11n40	



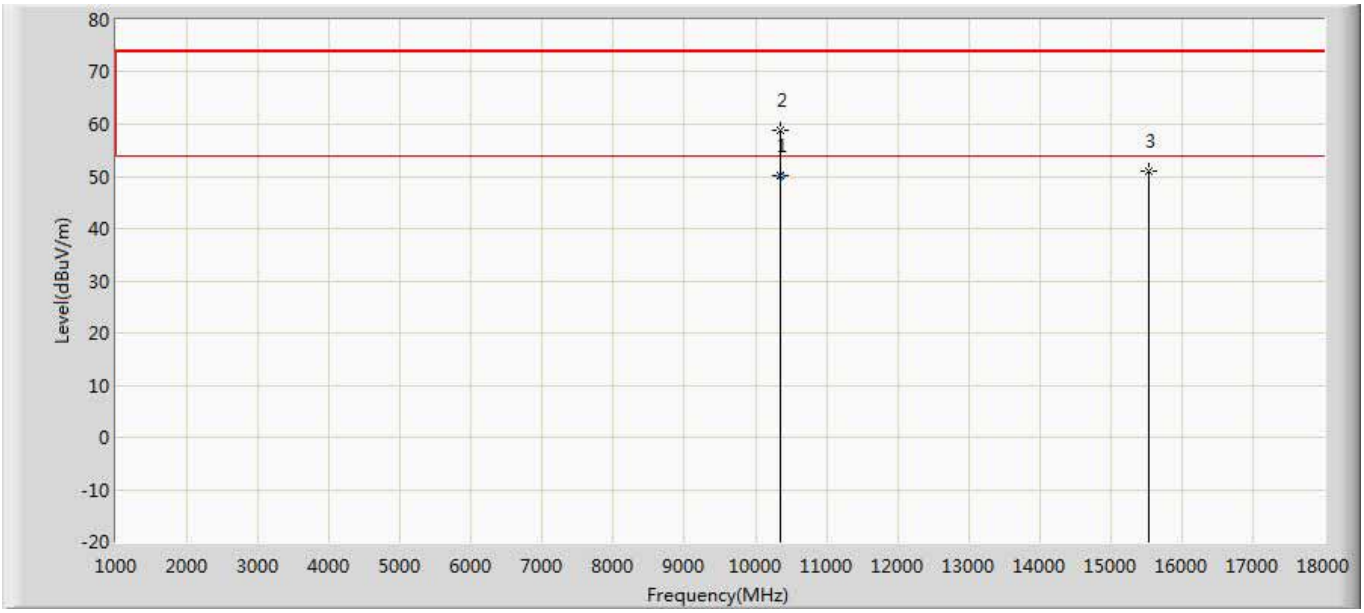
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11590.600	53.695	37.296	-0.305	54.000	16.399	AV
2		11591.000	61.408	45.000	-12.592	74.000	16.408	PK
3		17385.000	52.572	31.980	-21.428	74.000	20.592	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5795MHz by 11n40	



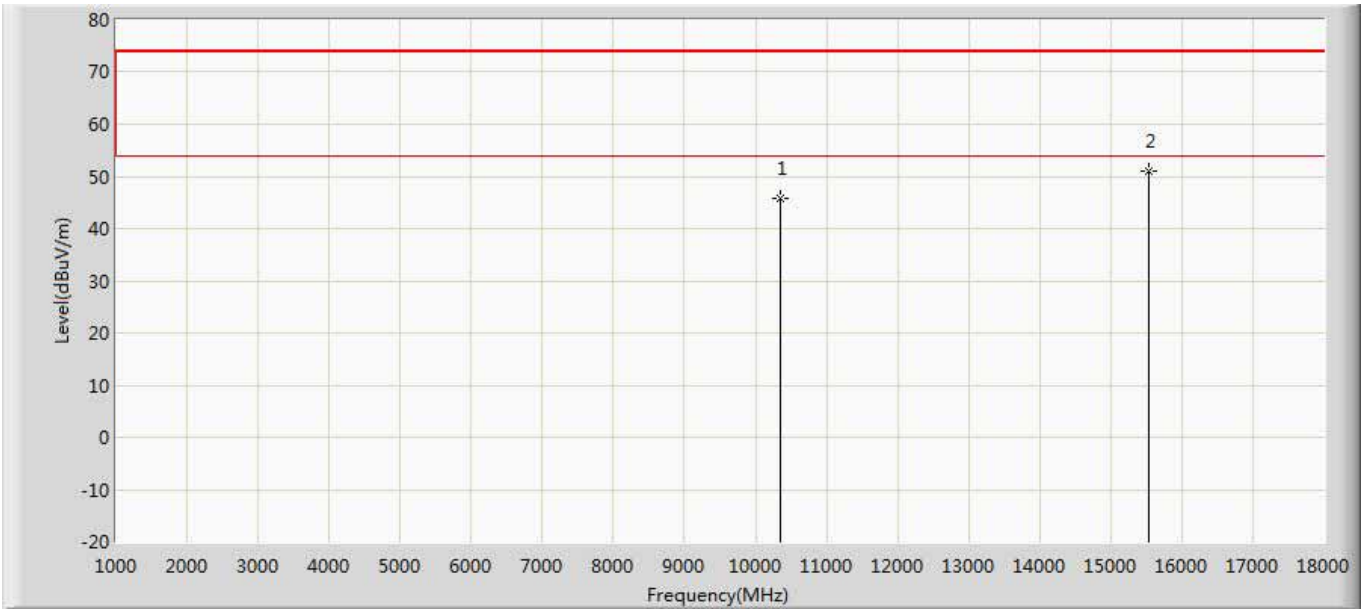
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11590.000	47.021	32.705	-26.979	74.000	14.315	PK
2	*	17385.000	51.723	32.239	-22.277	74.000	19.485	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/10 - 10:33
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5180MHz by 11ac20	



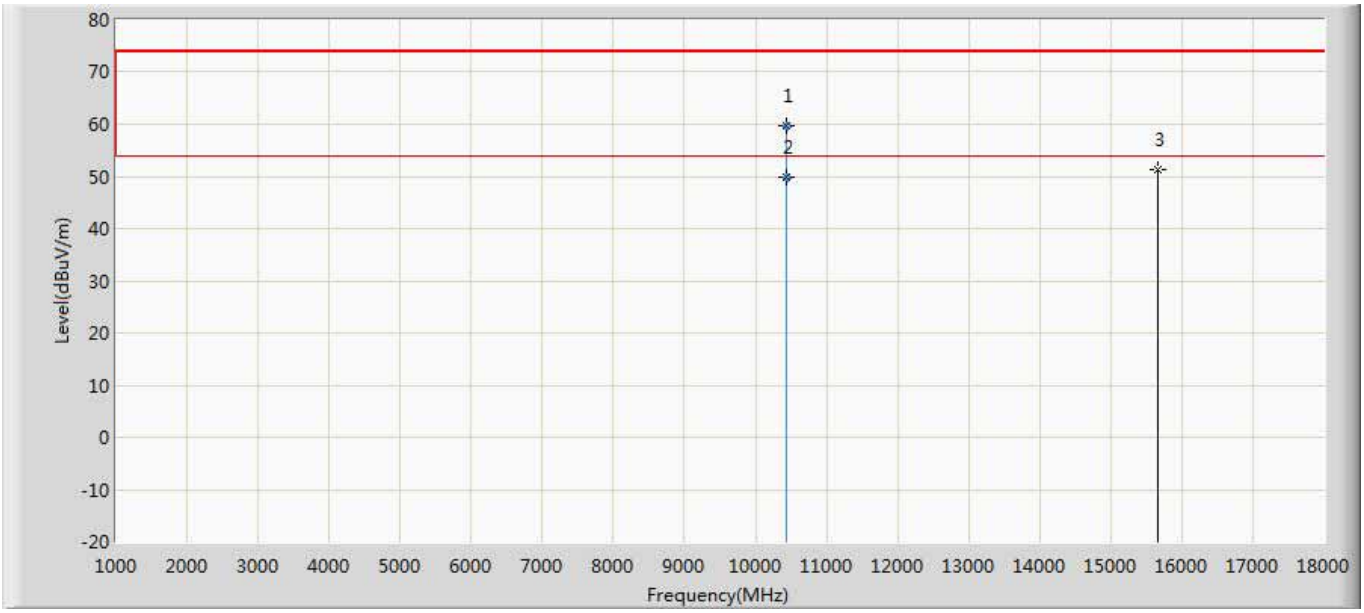
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	10359.910	50.060	38.260	-3.940	54.000	11.800	AV
2		10360.540	58.818	47.020	-15.182	74.000	11.799	PK
3		15540.000	51.100	33.479	-22.900	74.000	17.621	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5180MHz by 11ac20	



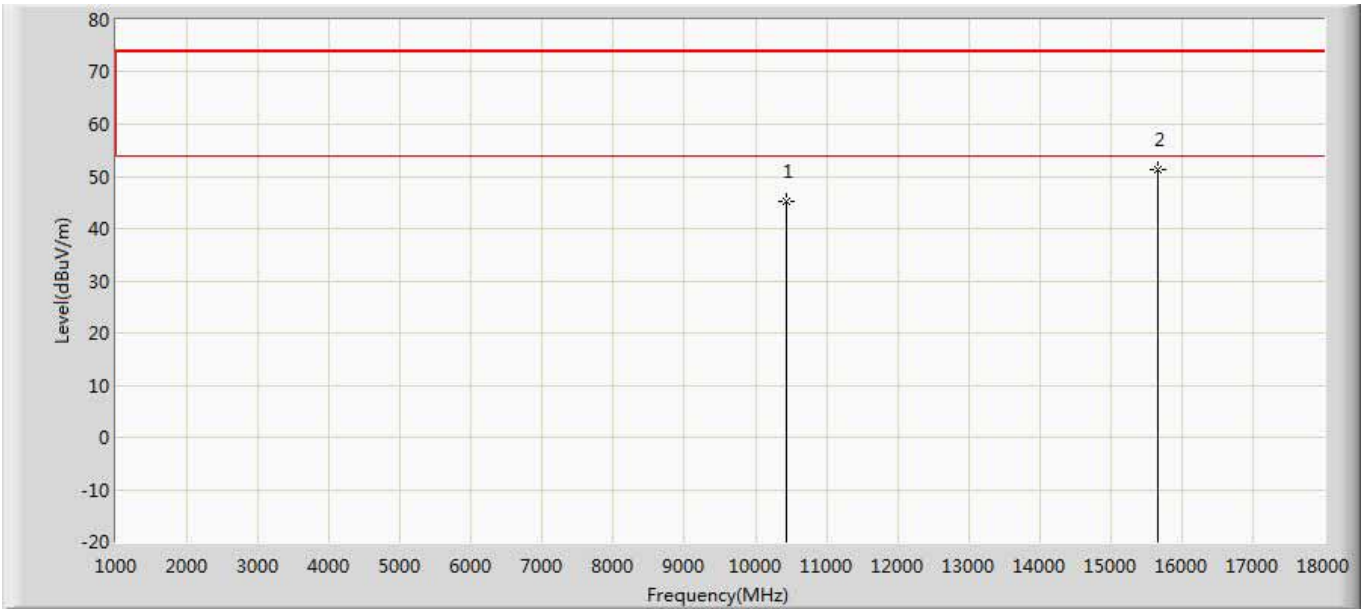
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10360.000	45.721	33.922	-28.279	74.000	11.799	PK
2	*	15540.000	51.100	33.479	-22.900	74.000	17.621	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/10 - 10:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 4Transmit at 5220MHz by 11ac20	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	10440.020	59.677	47.590	5.677	54.000	12.087	AV
2		10440.110	49.892	37.810	-4.108	54.000	12.081	AV
3		15660.000	51.252	33.106	-22.748	74.000	18.146	PK

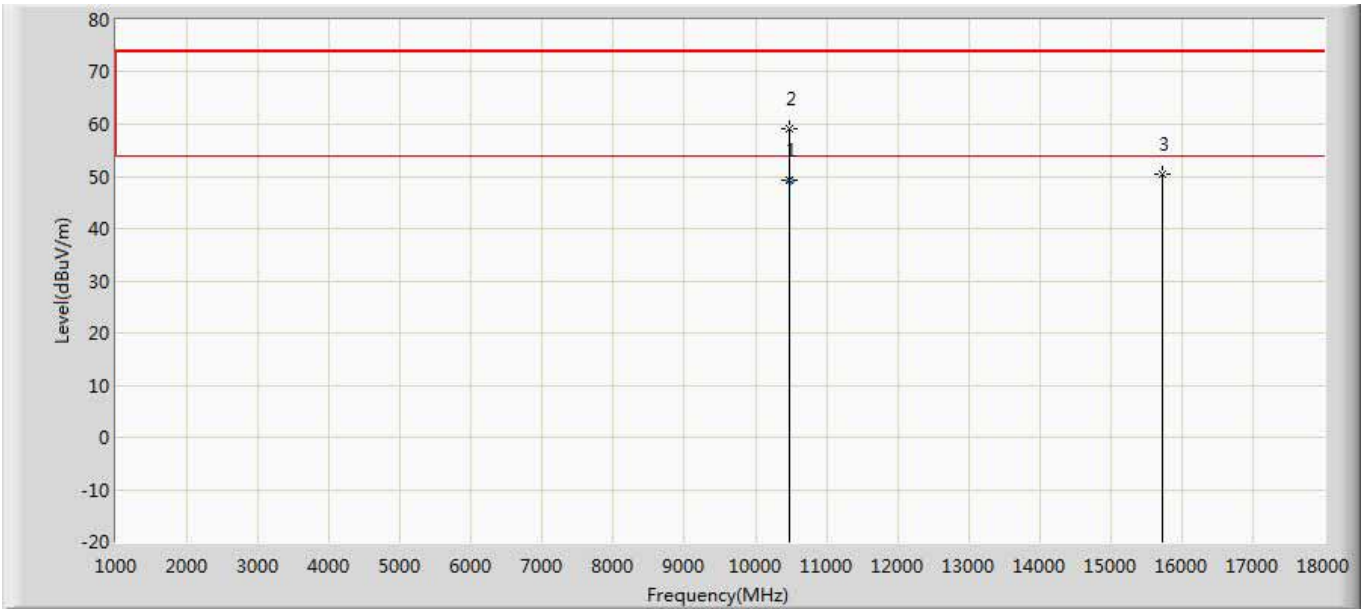
Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:30
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 4Transmit at 5220MHz by 11ac20	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10440.000	45.171	33.083	-28.829	74.000	12.088	PK
2	*	15660.000	51.252	33.106	-22.748	74.000	18.146	PK

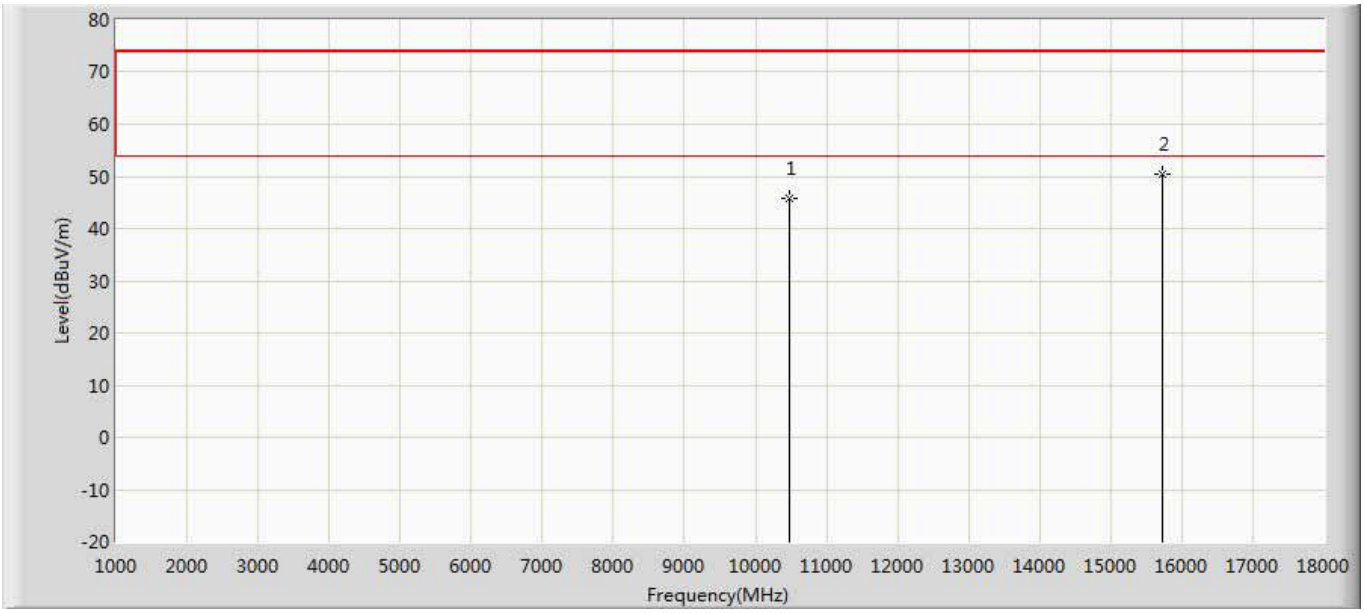
.

Engineer: Eric	
Site: AC5	Time: 2017/05/10 - 10:50
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5240MHz by 11ac20	



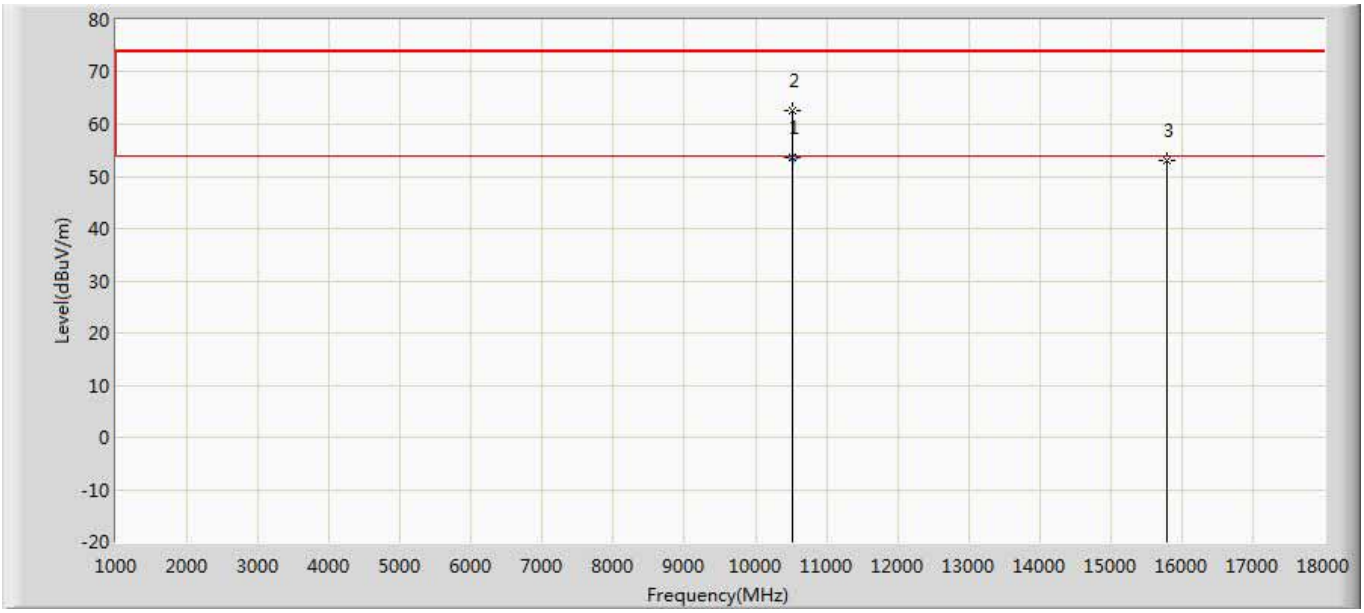
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	10480.040	49.351	37.640	-4.649	54.000	11.711	AV
2		10480.310	59.229	47.520	-14.771	74.000	11.709	PK
3		15720.000	50.331	32.013	-23.669	74.000	18.318	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:30
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5240MHz by 11ac20	



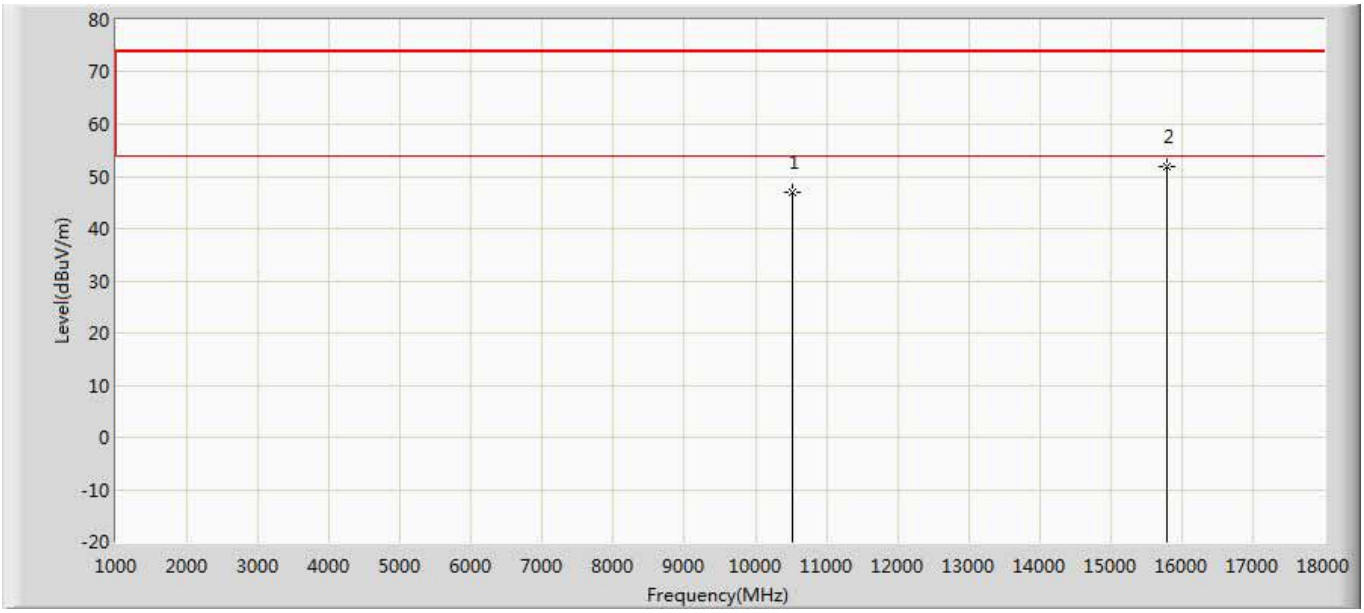
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10480.000	45.836	34.125	-28.164	74.000	11.711	PK
2	*	15720.000	50.331	32.013	-23.669	74.000	18.318	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 17:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5260MHz by 11ac20	



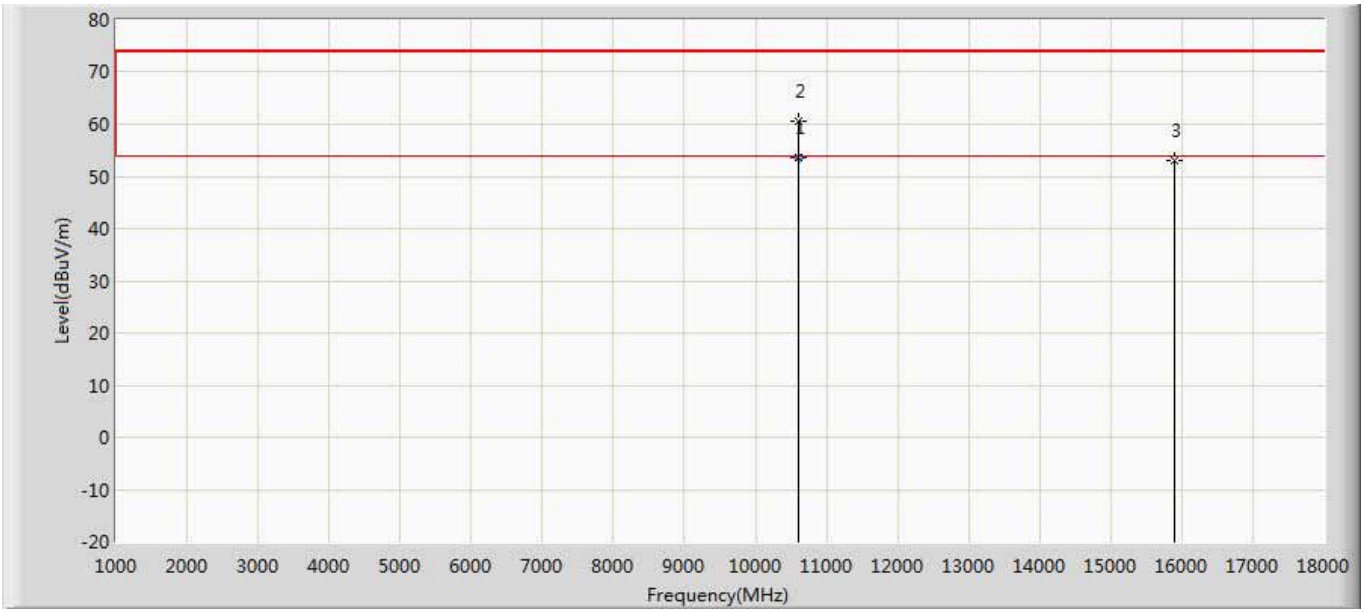
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	10517.900	53.595	38.985	-0.405	54.000	14.610	AV
2		10520.000	62.672	47.860	-11.328	74.000	14.812	PK
3		15780.000	53.054	33.575	-20.946	74.000	19.479	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:31
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5260MHz by 11ac20	



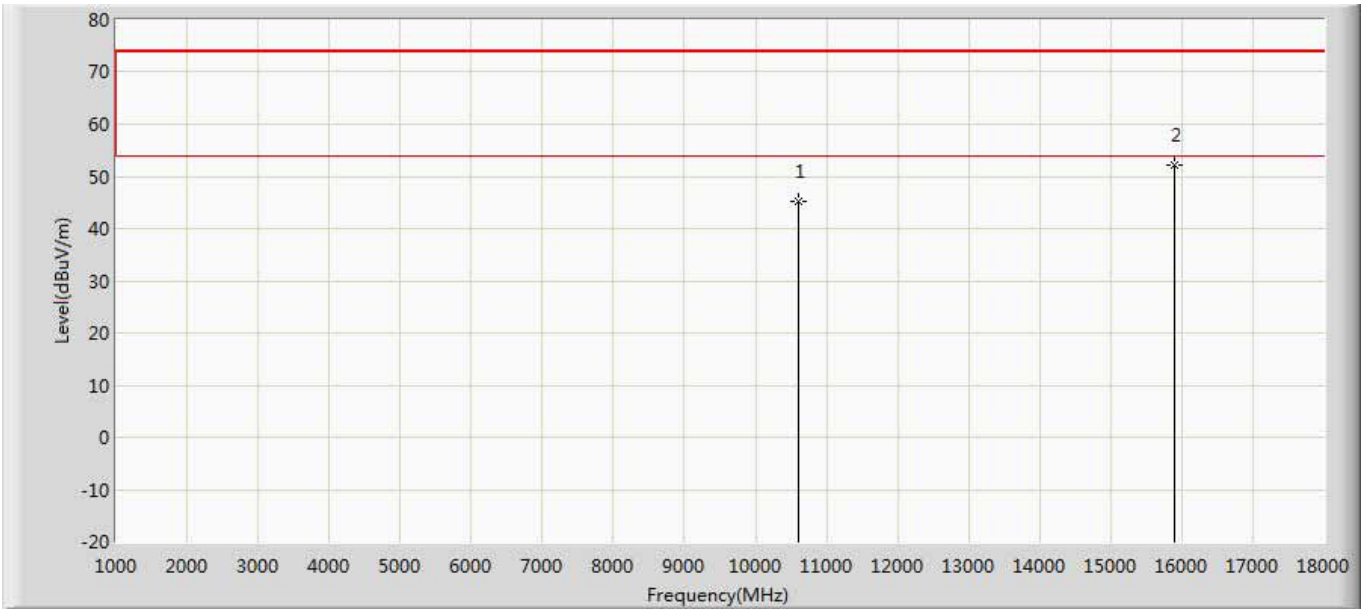
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10520.000	46.838	34.280	-27.162	74.000	12.558	PK
2	*	15780.000	51.756	33.499	-22.244	74.000	18.258	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 17:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5300MHz by 11ac20	



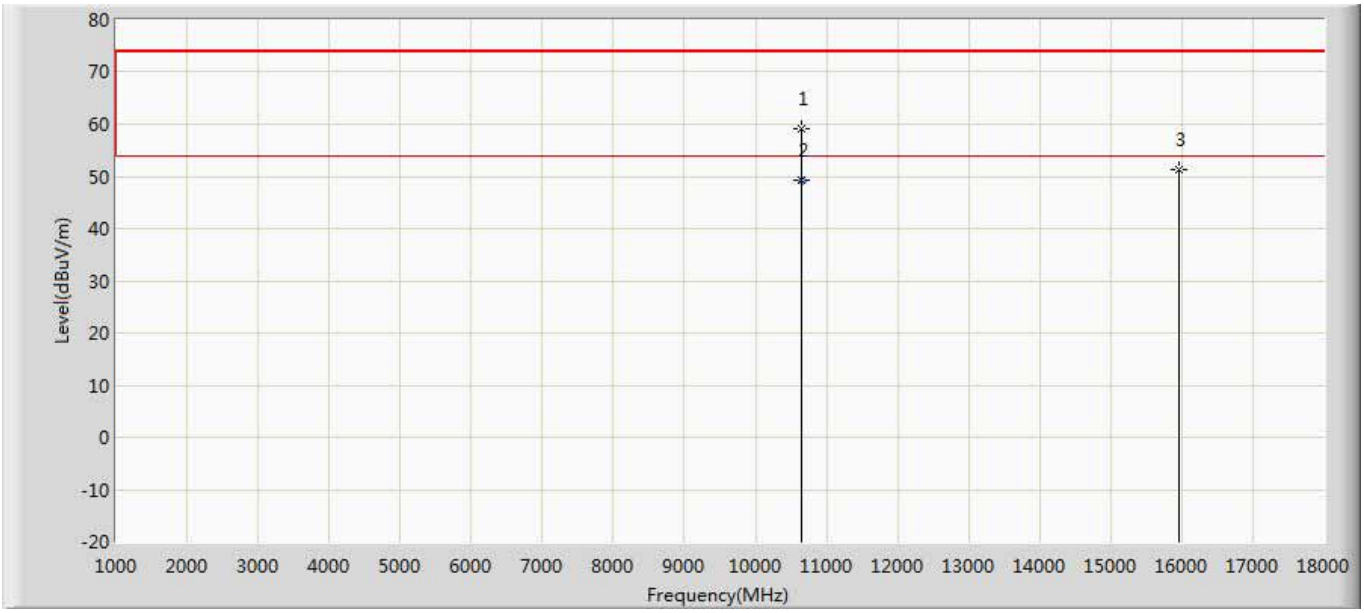
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	10600.150	53.531	39.774	-0.469	54.000	13.757	AV
2		10605.000	60.580	46.689	-13.420	74.000	13.891	PK
3		15900.000	52.975	33.018	-21.025	74.000	19.957	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:31
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5300MHz by 11ac20	



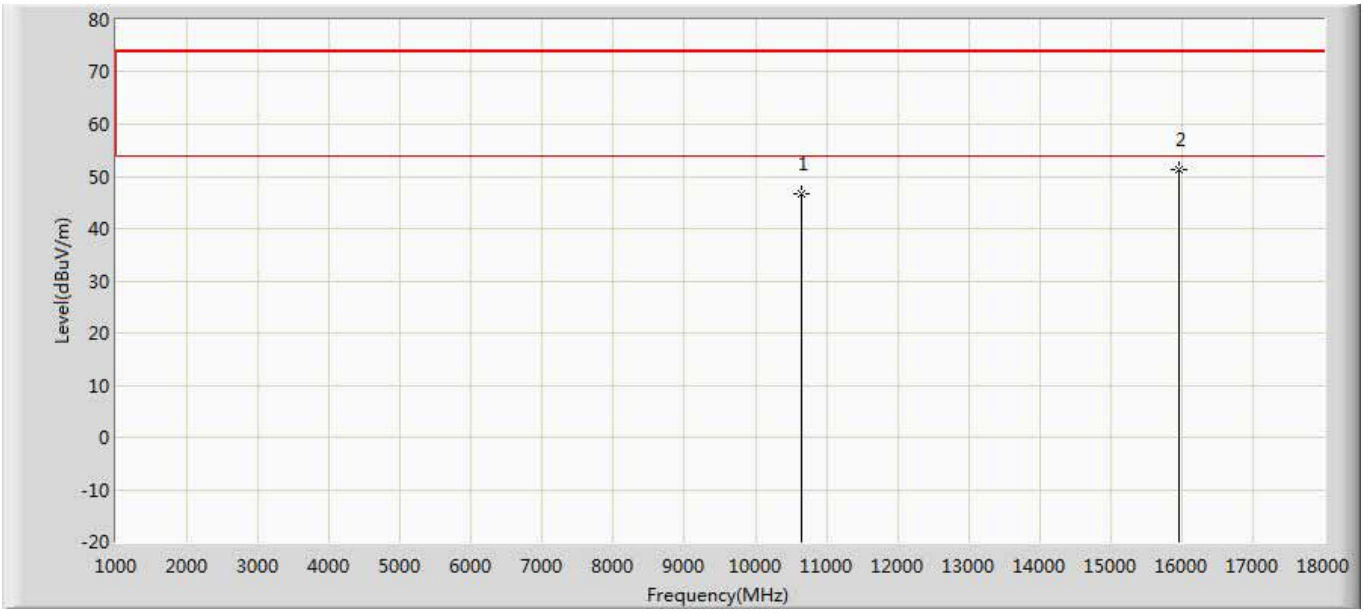
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10600.000	45.308	33.257	-28.692	74.000	12.051	PK
2	*	15900.000	52.177	33.655	-21.823	74.000	18.522	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/10 - 11:02
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5320MHz by 11ac20	



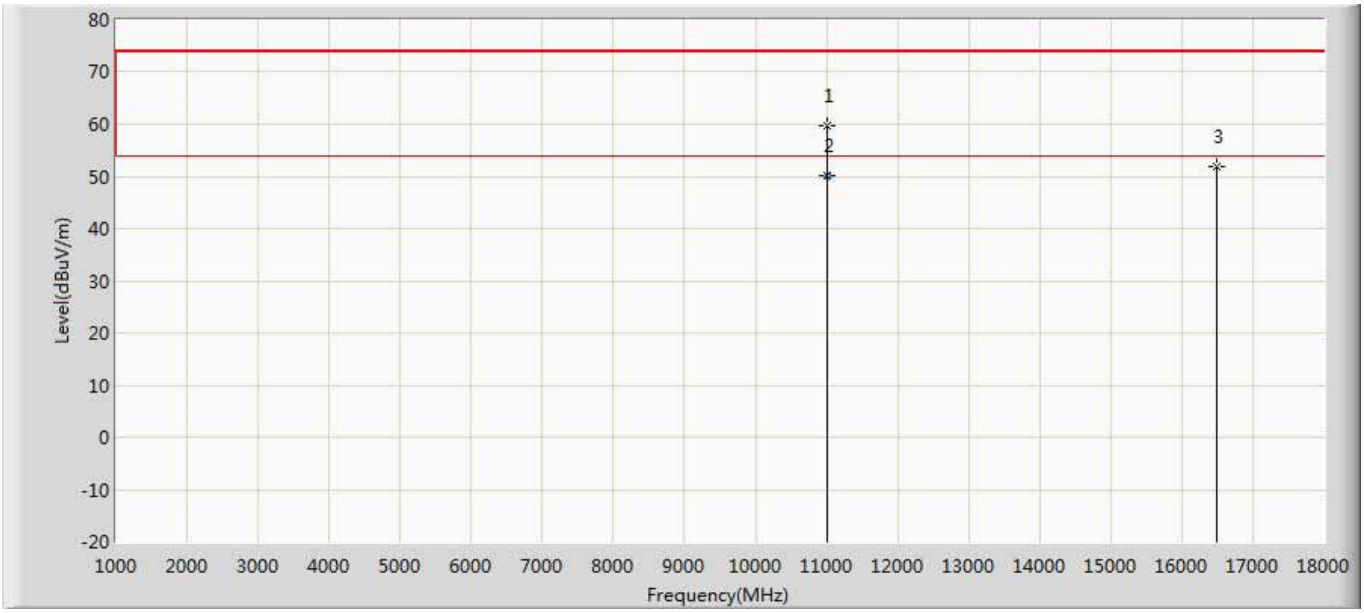
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10640.050	59.123	47.080	-14.877	74.000	12.043	PK
2	*	10640.230	49.256	37.210	-4.744	54.000	12.046	AV
3		15960.000	51.365	32.902	-22.635	74.000	18.463	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:31
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5320MHz by 11ac20	



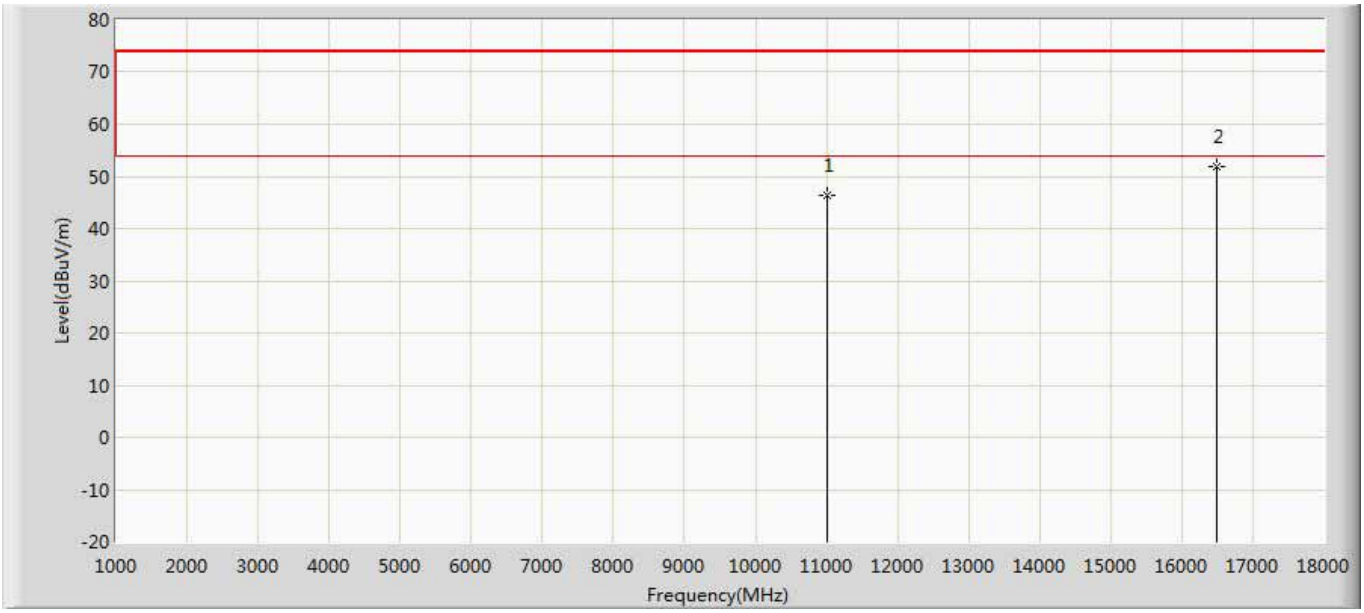
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10640.000	46.804	34.762	-27.196	74.000	12.042	PK
2	*	15960.000	51.365	32.902	-22.635	74.000	18.463	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/10 - 14:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5500MHz by 11ac20	



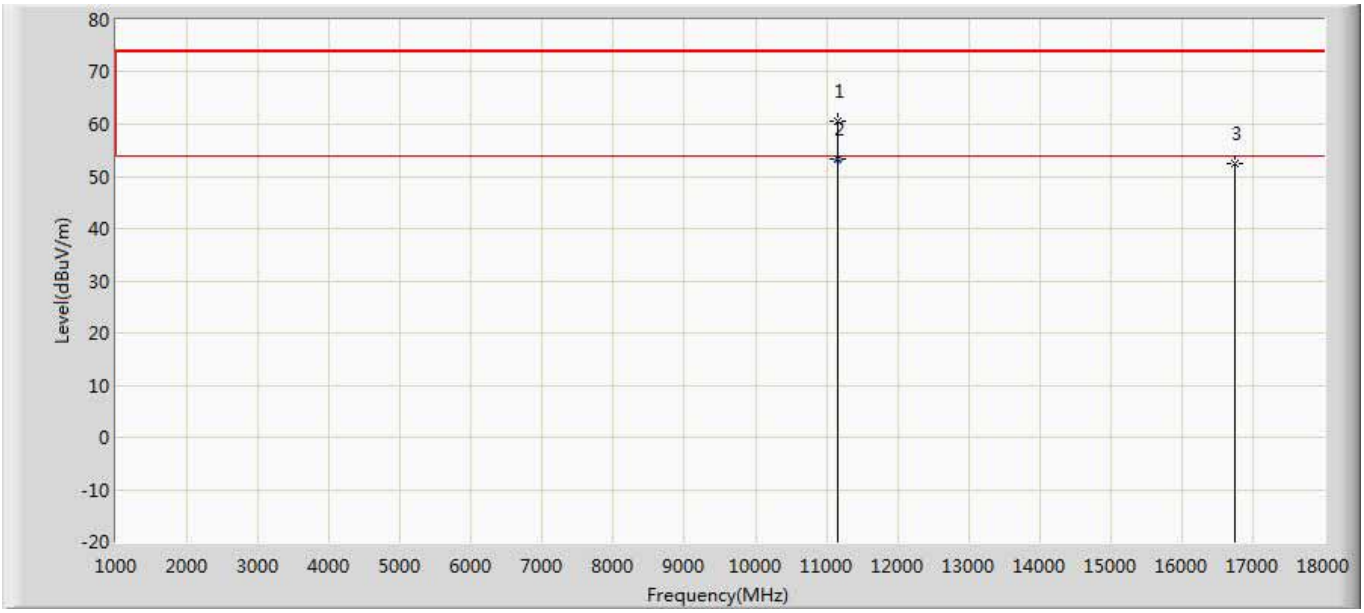
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11000.050	59.573	47.040	-14.427	74.000	12.533	PK
2	*	11000.260	50.065	37.520	-3.935	54.000	12.545	AV
3		16500.000	51.787	32.697	-22.213	74.000	19.090	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5500MHz by 11ac20	



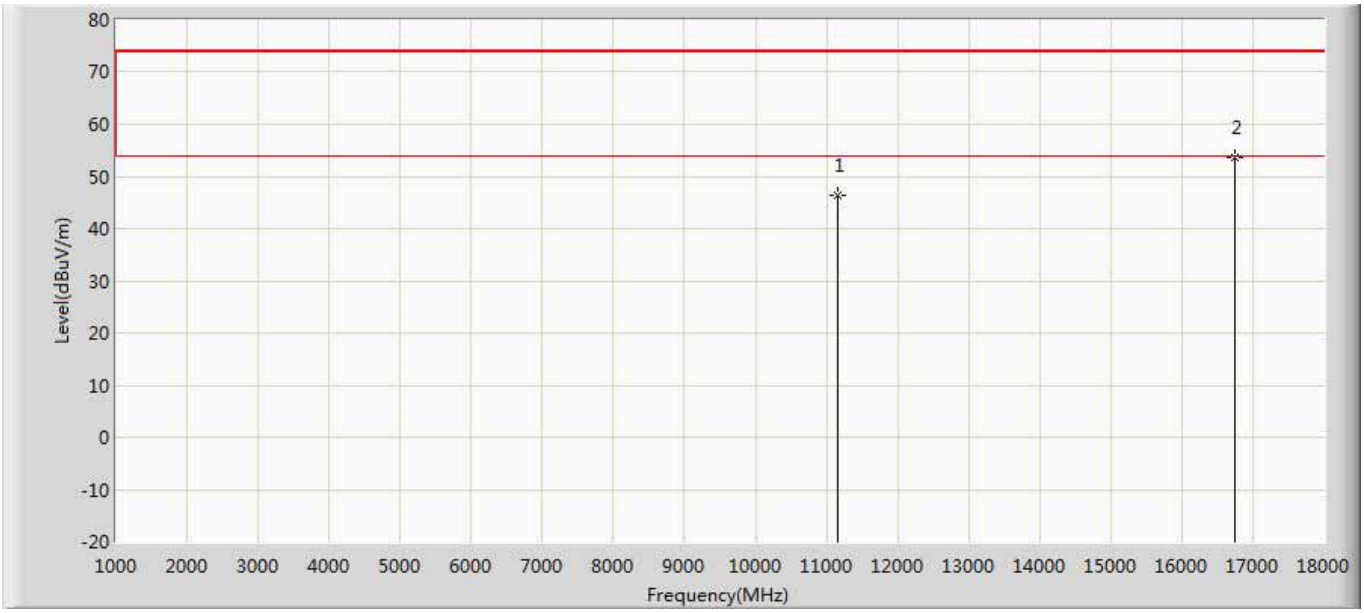
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11000.000	46.366	33.836	-27.634	74.000	12.529	PK
2	*	16500.000	51.787	32.697	-22.213	74.000	19.090	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 17:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5580MHz by 11ac20	



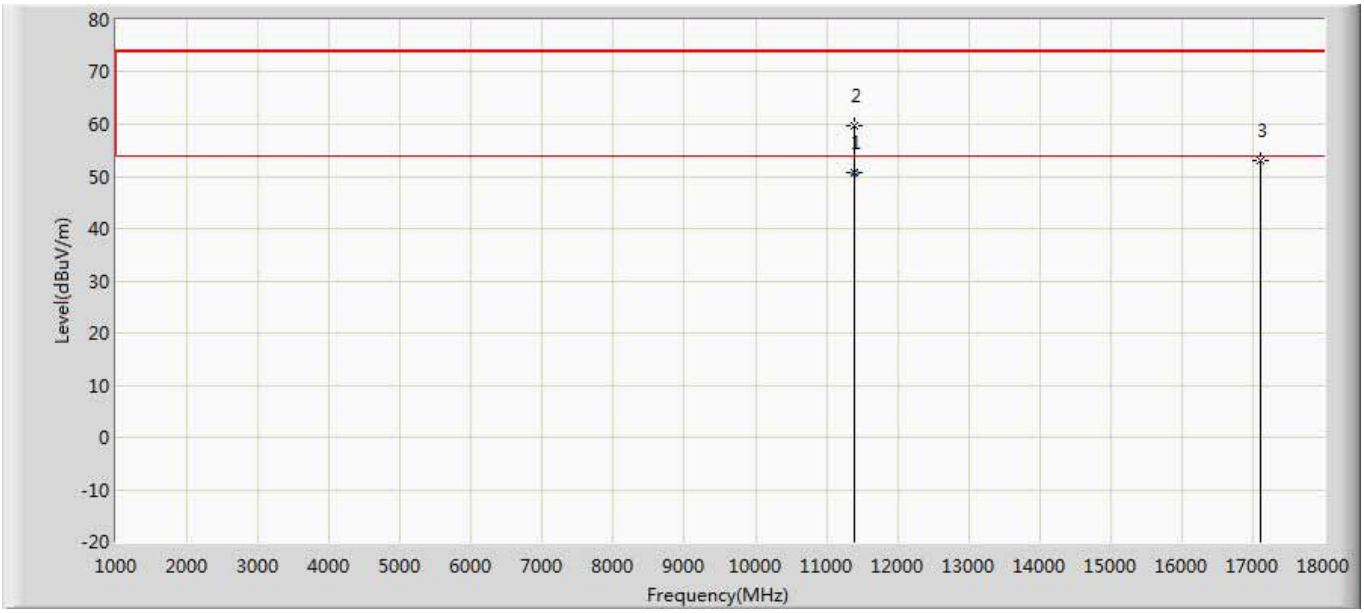
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11157.500	60.553	45.876	-13.447	74.000	14.677	PK
2	*	11159.950	53.270	38.795	-0.730	54.000	14.475	AV
3		16740.000	52.408	31.760	-21.592	74.000	20.648	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5580MHz by 11ac20	



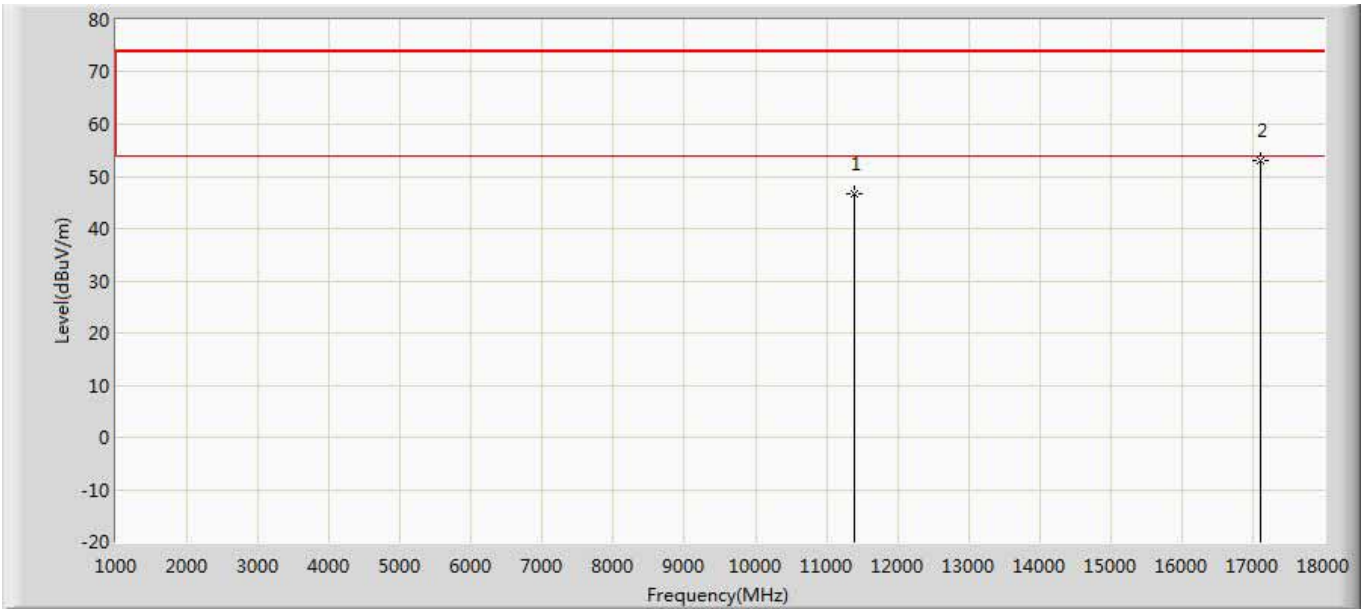
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11160.000	46.472	33.479	-27.528	74.000	12.994	PK
2	*	16740.000	53.622	34.314	-20.378	74.000	19.308	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/10 - 15:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5700MHz by 11ac20	



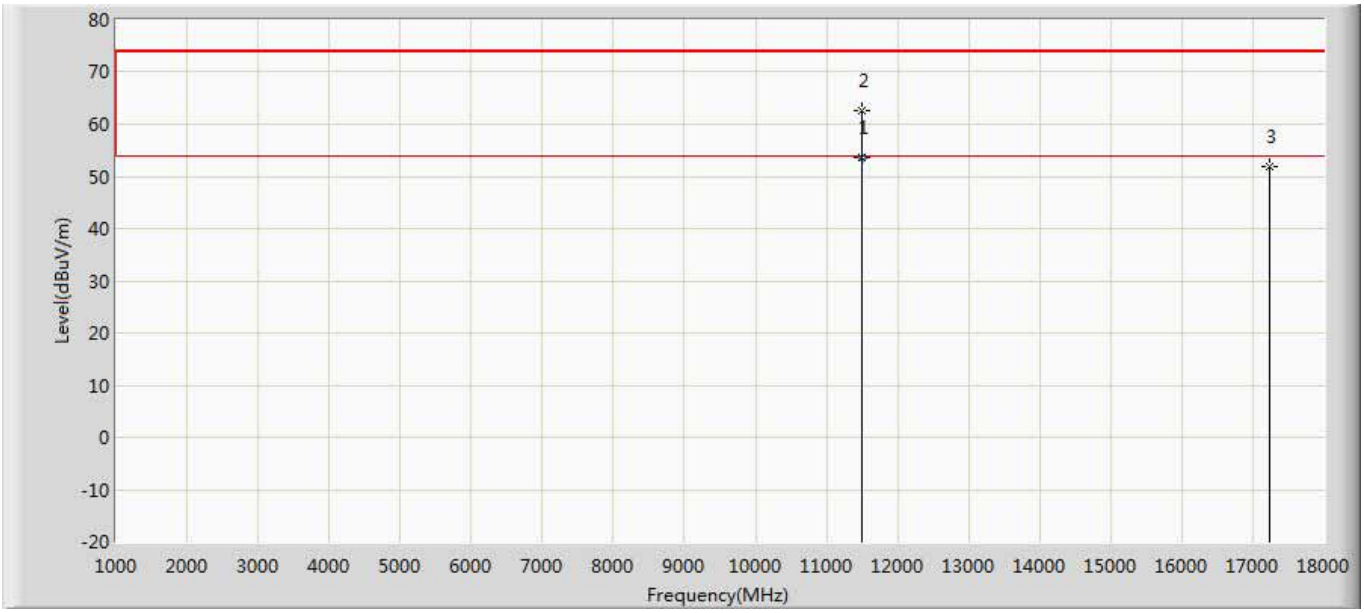
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11400.100	50.654	37.170	-3.346	54.000	13.484	AV
2		11400.370	59.854	46.380	-14.146	74.000	13.474	PK
3		17100.000	53.184	33.384	-20.816	74.000	19.800	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:33
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5700MHz by 11ac20	



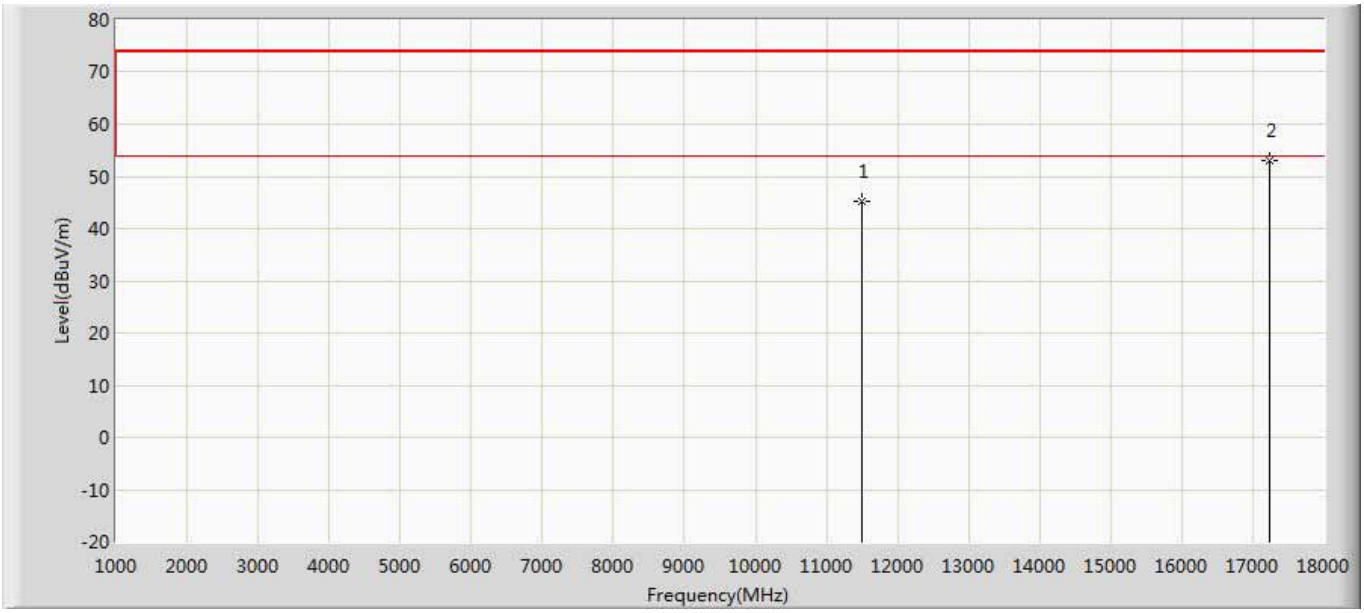
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11400.000	46.787	33.300	-27.213	74.000	13.488	PK
2	*	17100.000	53.184	33.384	-20.816	74.000	19.800	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 17:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5745MHz by 11ac20	



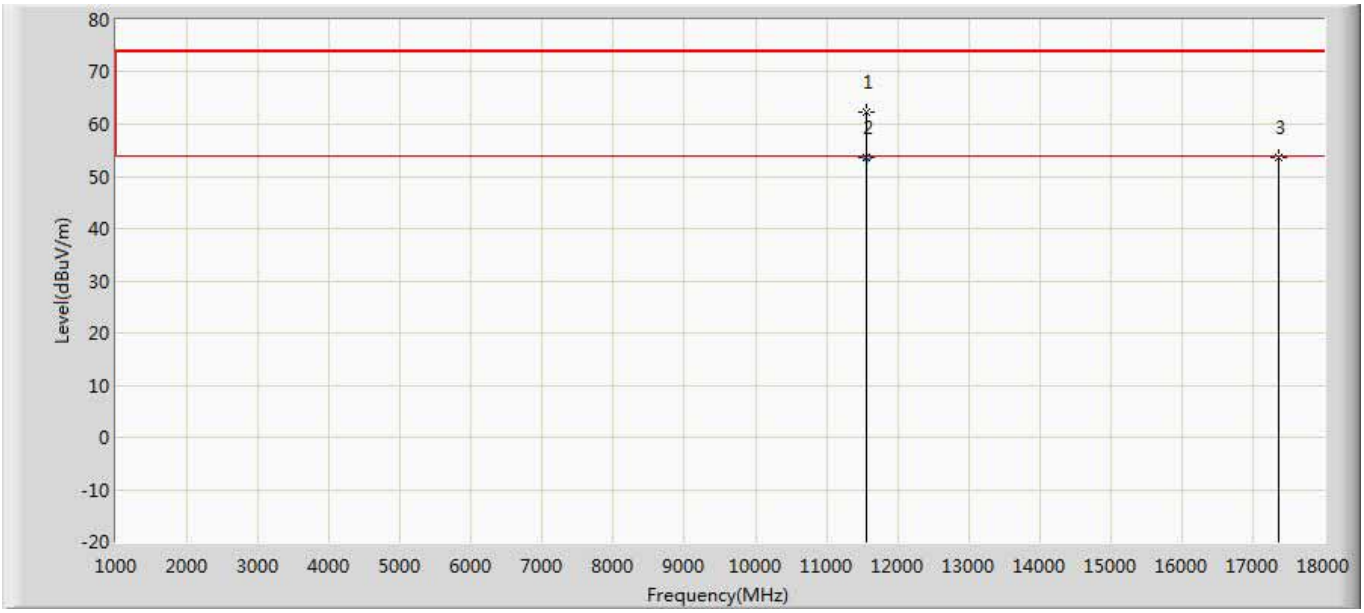
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11487.750	53.715	38.584	-0.285	54.000	15.131	AV
2		11489.000	62.563	47.520	-11.437	74.000	15.043	PK
3		17235.000	51.889	32.410	-22.111	74.000	19.479	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:33
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5745MHz by 11ac20	



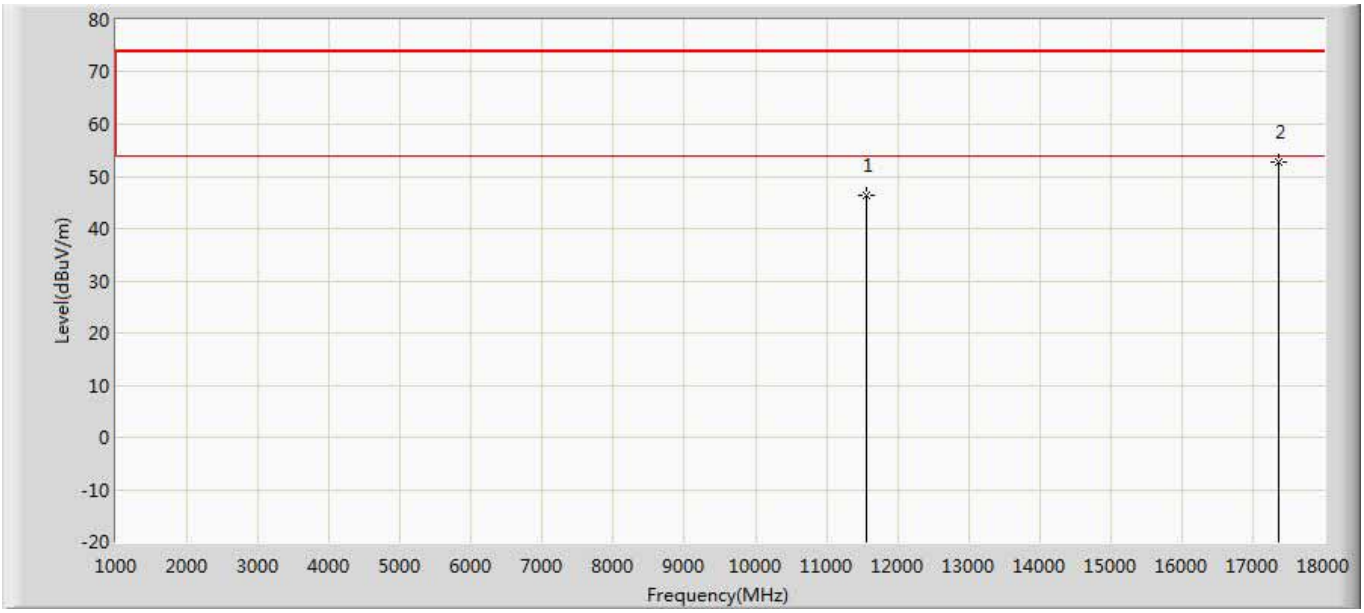
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11490.000	45.160	31.968	-28.840	74.000	13.192	PK
2	*	17235.000	53.029	33.058	-20.971	74.000	19.971	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 17:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5785MHz by 11ac20	



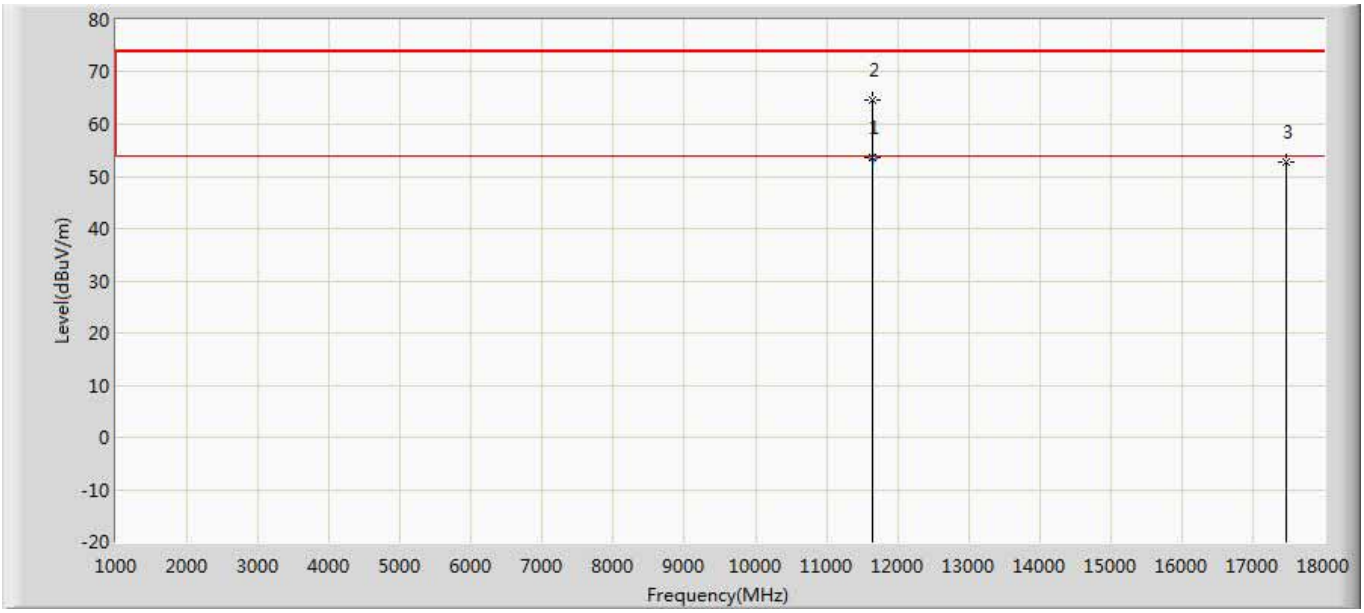
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11557.000	62.308	45.650	-11.692	74.000	16.658	PK
2	*	11570.050	53.571	37.397	-0.429	54.000	16.175	AV
3		17355.000	53.594	33.010	-20.406	74.000	20.584	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:33
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5785MHz by 11ac20	



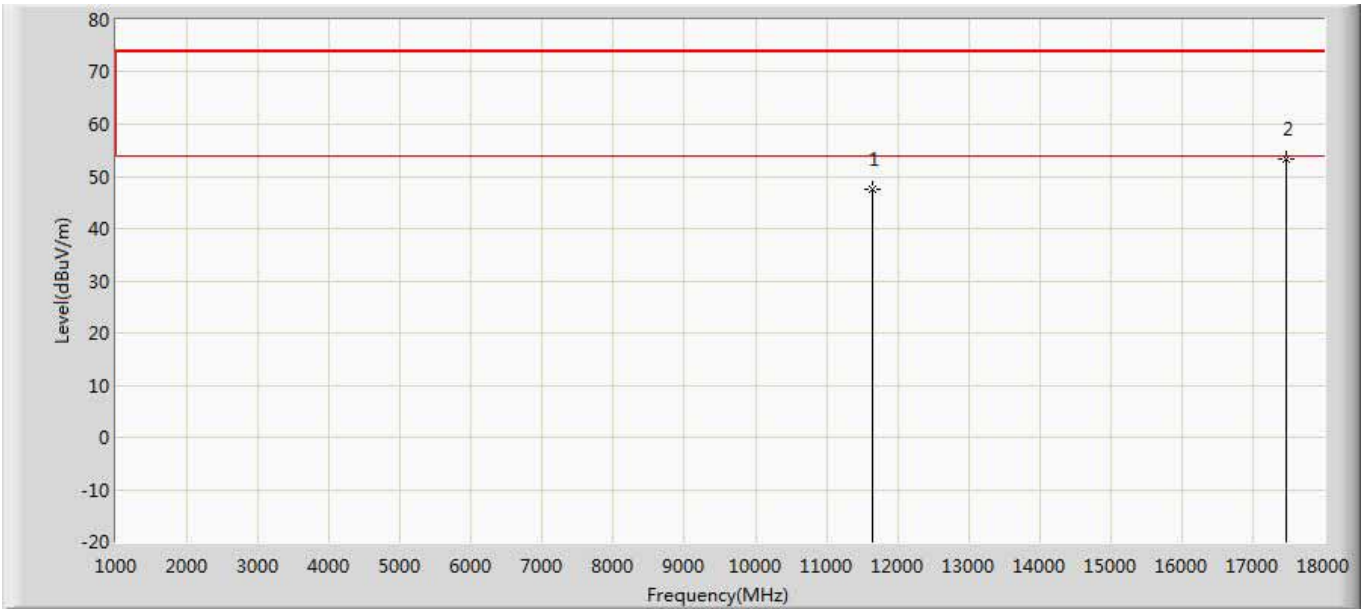
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11570.000	46.387	32.849	-27.613	74.000	13.539	PK
2	*	17355.000	52.678	32.772	-21.322	74.000	19.906	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 17:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5825MHz by 11ac20	



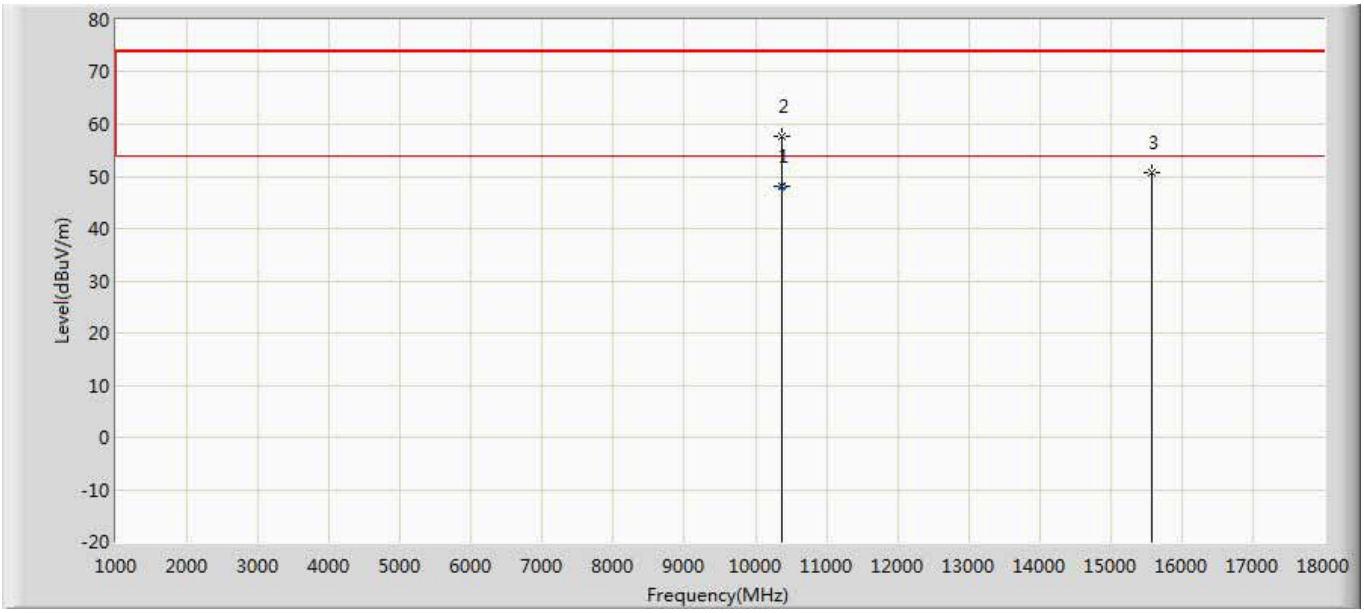
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11647.900	53.747	37.190	-0.253	54.000	16.557	AV
2		11650.500	64.659	48.184	-9.341	74.000	16.475	PK
3		17475.000	52.897	32.690	-21.103	74.000	20.208	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5825MHz by 11ac20	



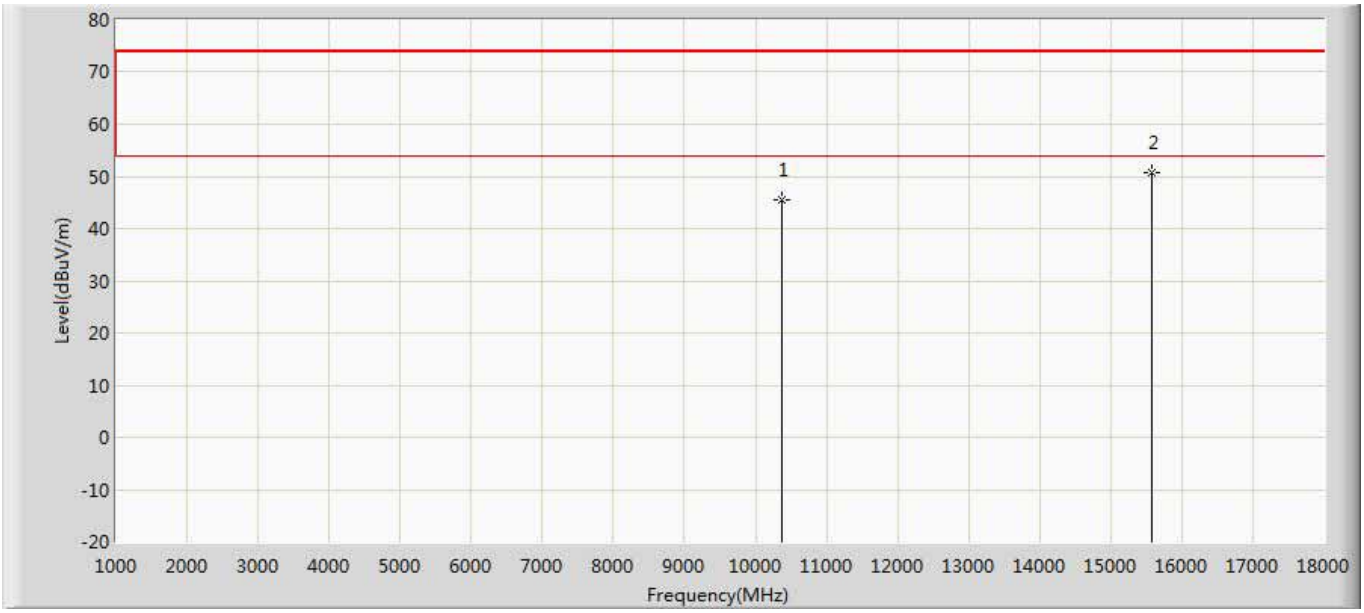
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11650.000	47.546	33.662	-26.454	74.000	13.884	PK
2	*	17475.000	53.326	33.342	-20.674	74.000	19.984	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/10 - 15:14
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5190MHz by 11ac40	



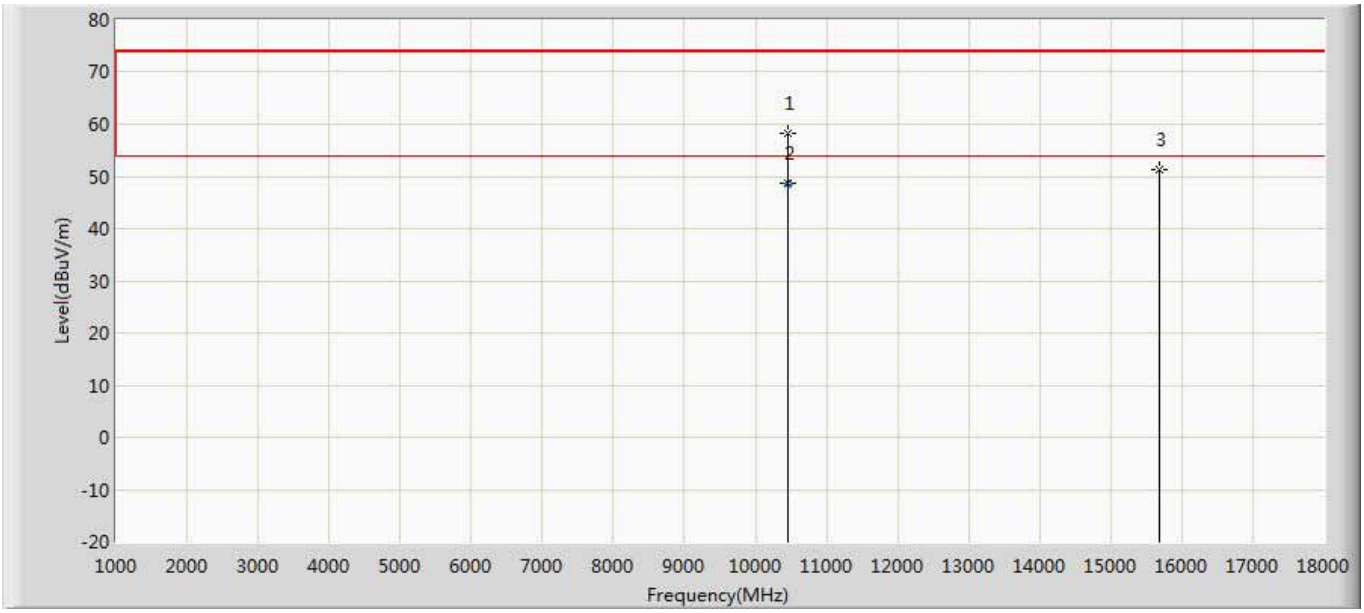
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	10380.150	48.131	36.440	-5.869	54.000	11.691	AV
2		10380.420	57.709	46.020	-16.291	74.000	11.689	PK
3		15570.000	50.709	32.360	-23.291	74.000	18.349	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5190MHz by 11ac40	



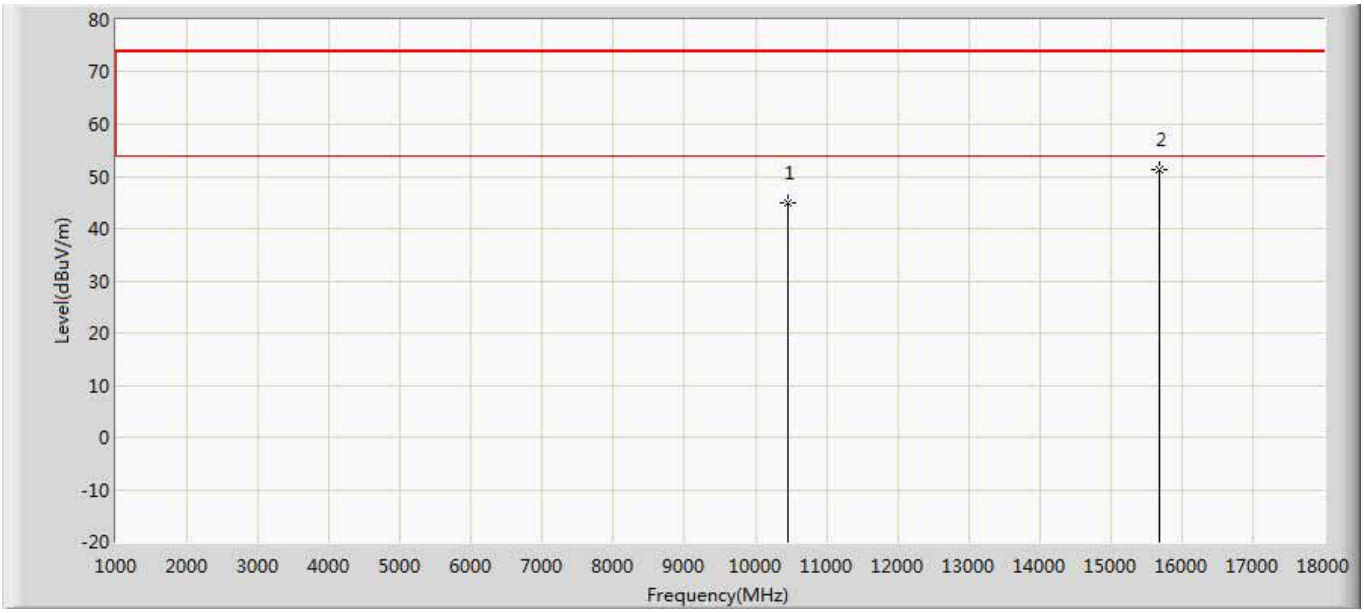
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10380.000	45.635	33.943	-28.365	74.000	11.692	PK
2	*	15570.000	50.709	32.360	-23.291	74.000	18.349	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/10 - 15:17
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5230MHz by 11ac40	



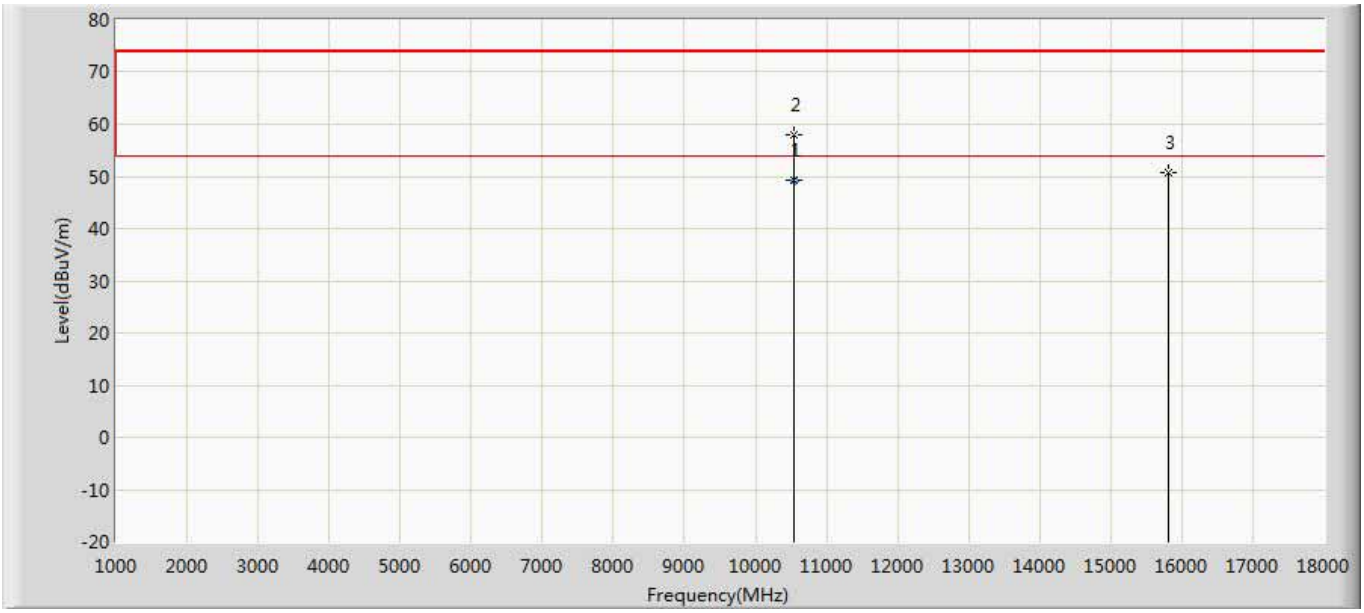
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10460.030	58.193	46.590	-15.807	74.000	11.603	PK
2	*	10460.170	48.716	37.110	-5.284	54.000	11.605	AV
3		15690.000	51.434	32.941	-22.566	74.000	18.493	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5230MHz by 11ac40	



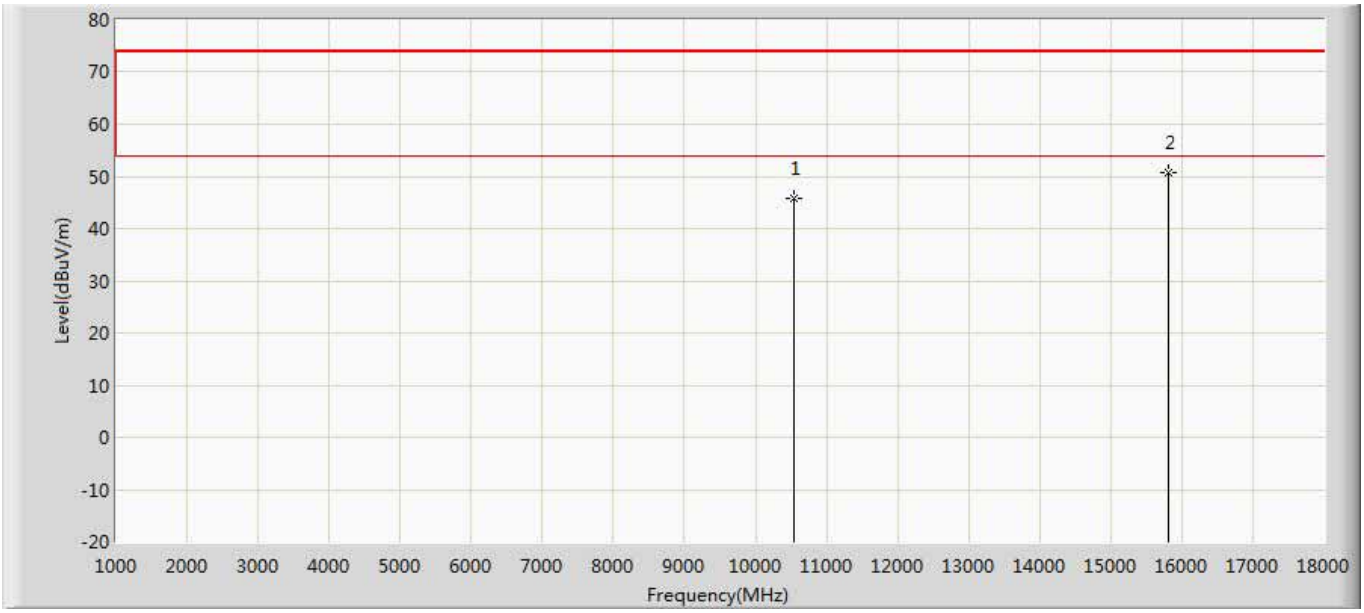
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10460.000	44.855	33.252	-29.145	74.000	11.603	PK
2	*	15690.000	51.434	32.941	-22.566	74.000	18.493	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/10 - 15:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5270MHz by 11ac40	



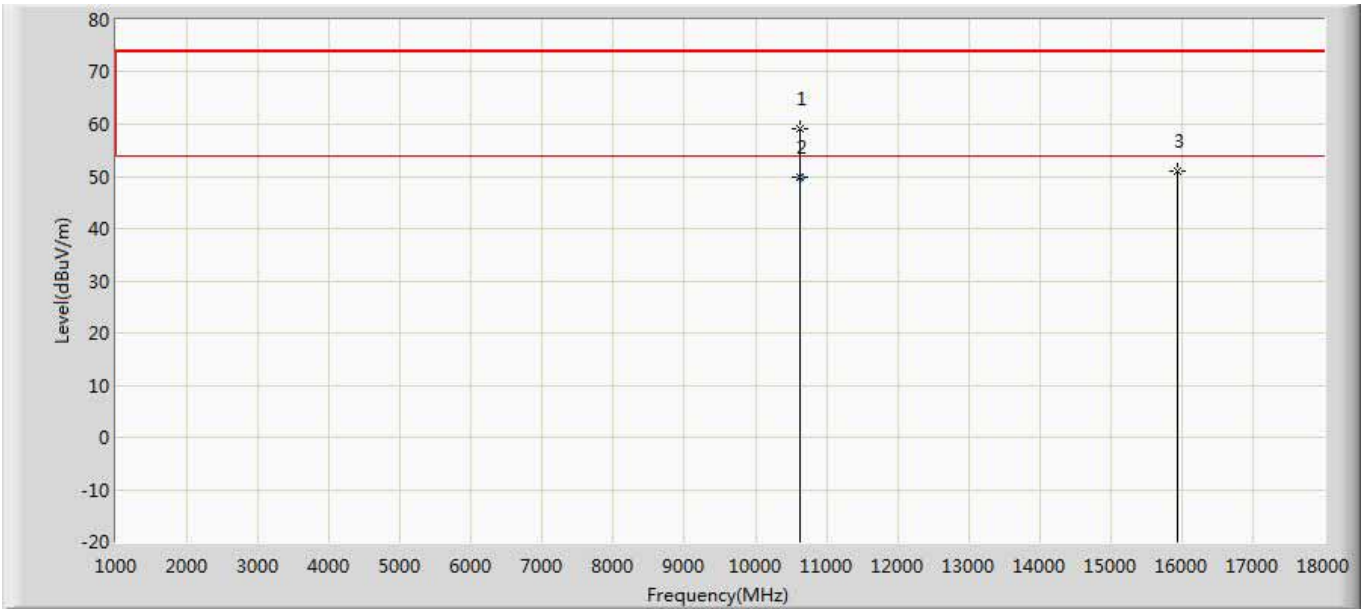
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	10540.160	49.186	37.450	-4.814	54.000	11.736	AV
2		10540.530	58.084	46.340	-15.916	74.000	11.744	PK
3		15810.000	50.861	32.385	-23.139	74.000	18.477	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5270MHz by 11ac40	



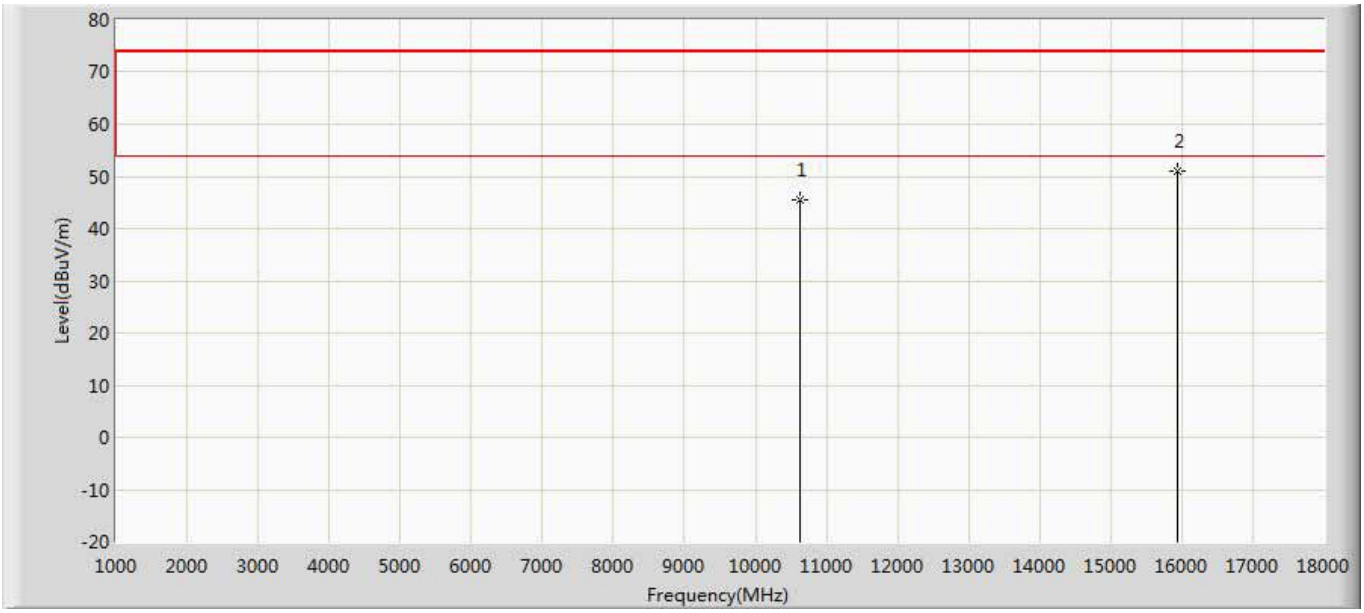
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10540.000	45.766	34.034	-28.234	74.000	11.733	PK
2	*	15810.000	50.861	32.385	-23.139	74.000	18.477	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/10 - 15:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5310MHz by 11ac40	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10619.860	59.068	47.210	-14.932	74.000	11.859	PK
2	*	10619.970	49.777	37.920	-4.223	54.000	11.857	AV
3		15930.000	50.936	32.290	-23.064	74.000	18.646	PK

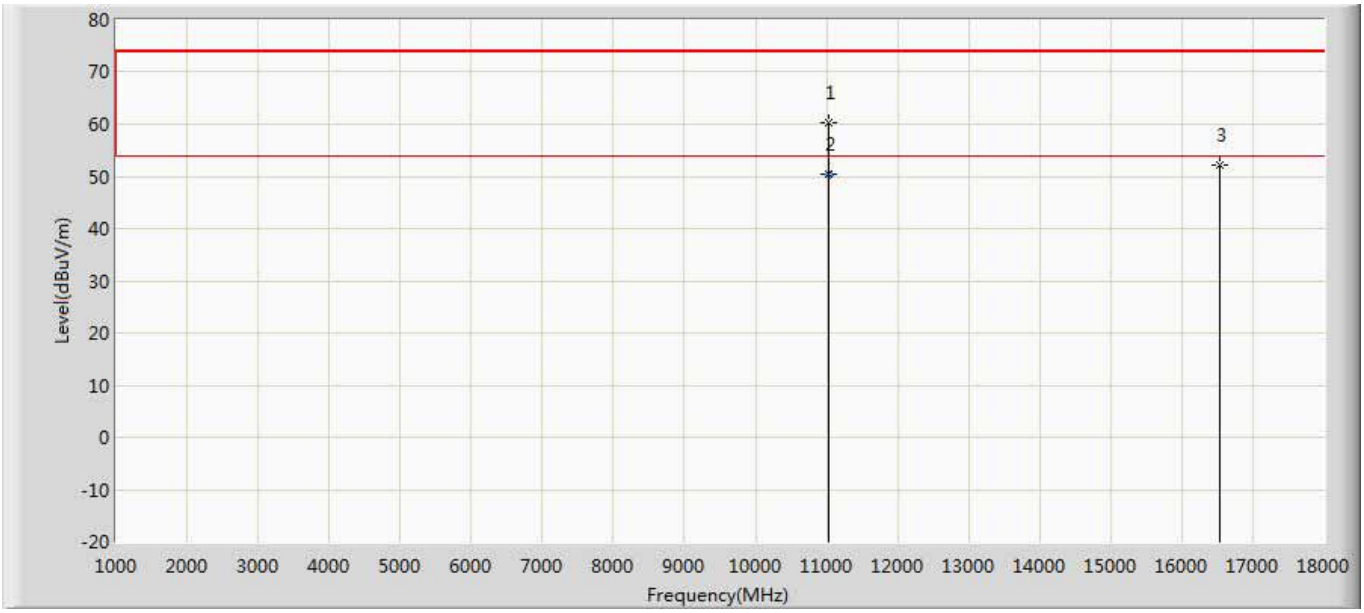
Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5310MHz by 11ac40	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10620.000	45.437	33.580	-28.563	74.000	11.857	PK
2	*	15930.000	50.936	32.290	-23.064	74.000	18.646	PK

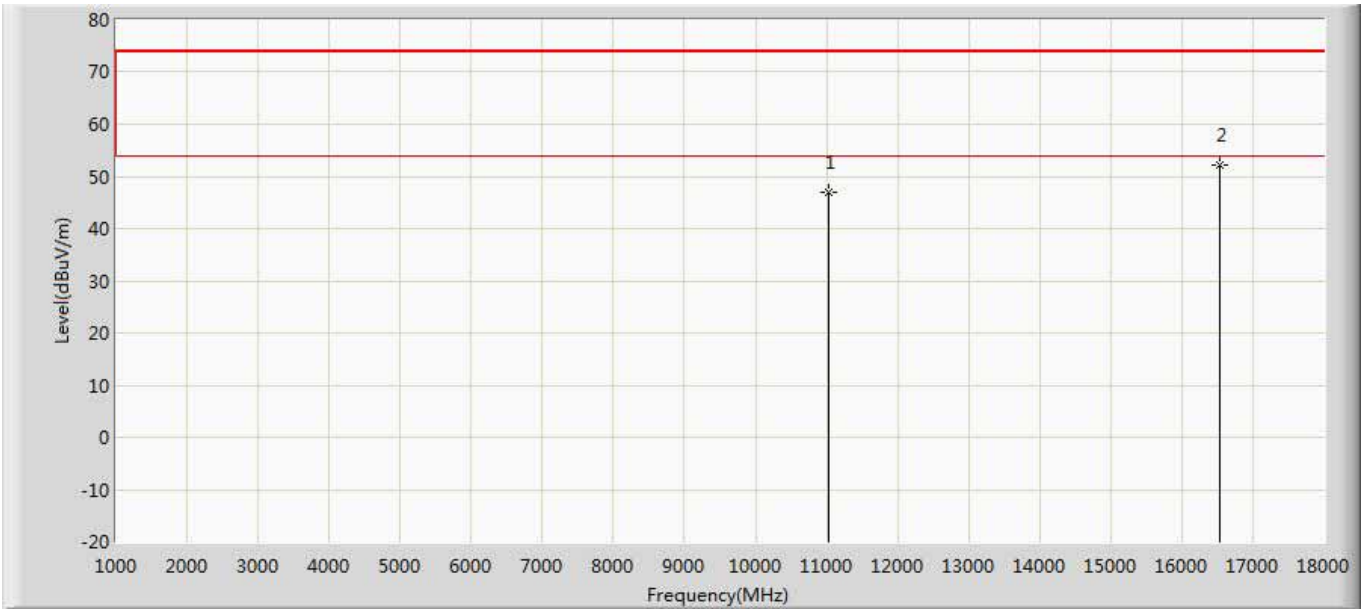
.

Engineer: Eric	
Site: AC5	Time: 2017/05/10 - 15:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5510MHz by 11ac40	



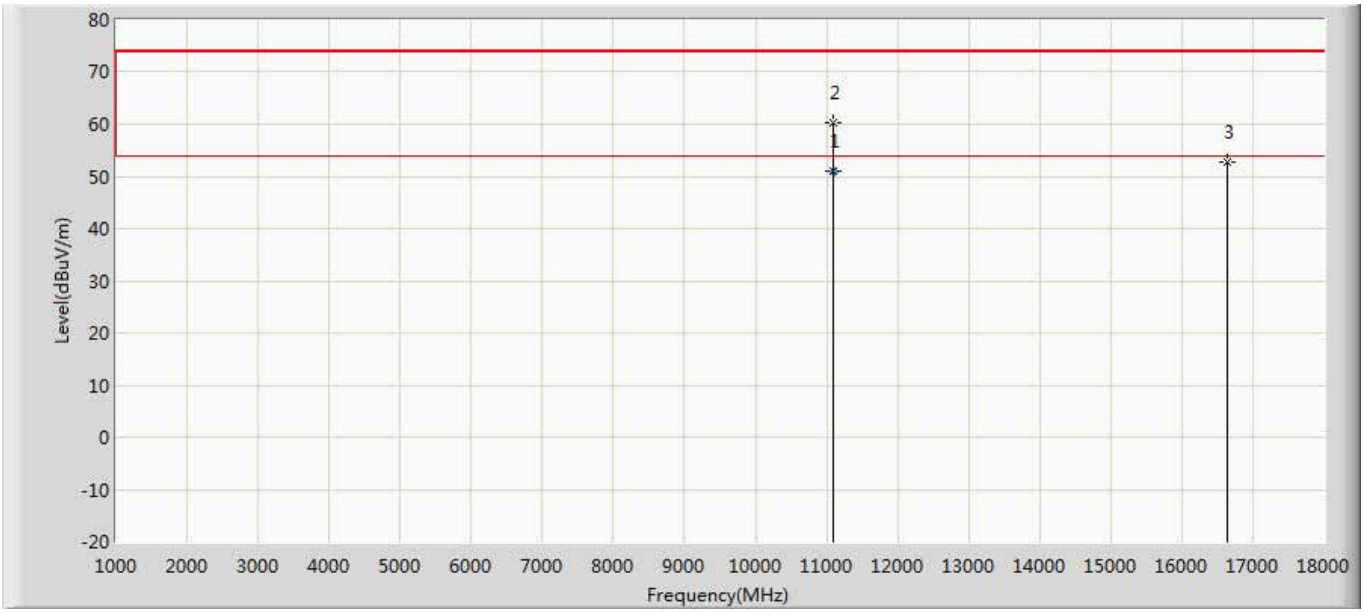
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11020.060	60.157	47.080	-13.843	74.000	13.077	PK
2	*	11020.100	50.526	37.450	-3.474	54.000	13.076	AV
3		16530.000	52.239	33.238	-21.761	74.000	19.001	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5510MHz by 11ac40	



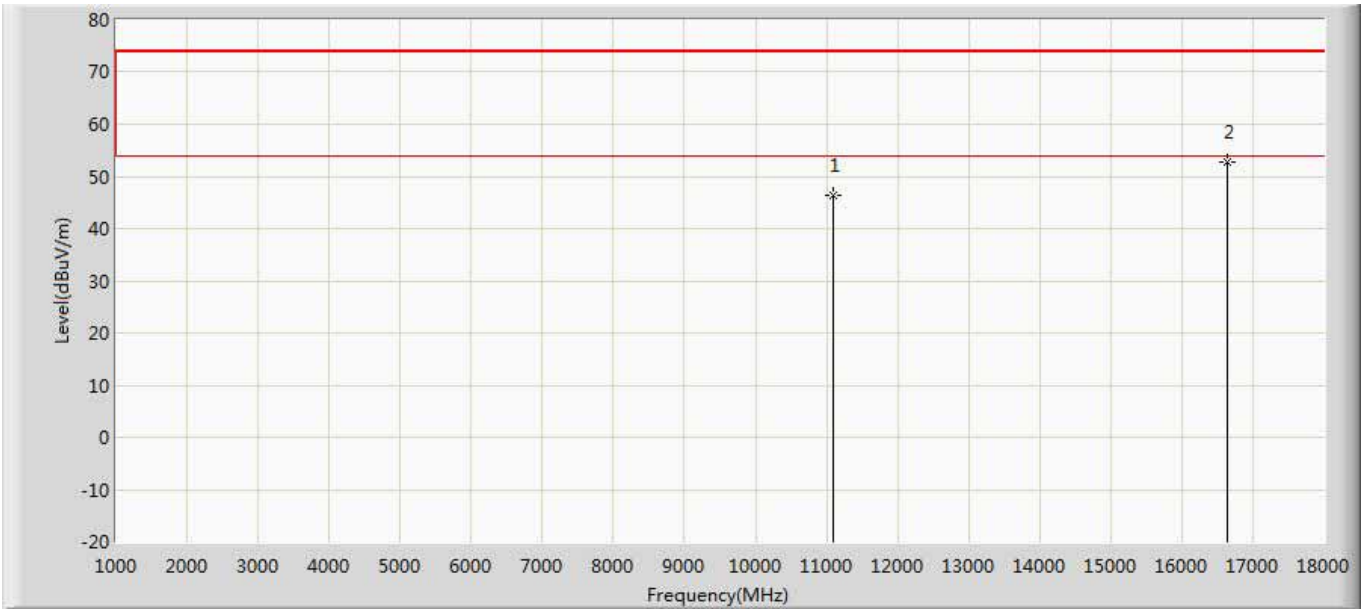
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11020.000	46.991	33.913	-27.009	74.000	13.078	PK
2	*	16530.000	52.239	33.238	-21.761	74.000	19.001	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/10 - 15:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5550MHz by 11ac40	



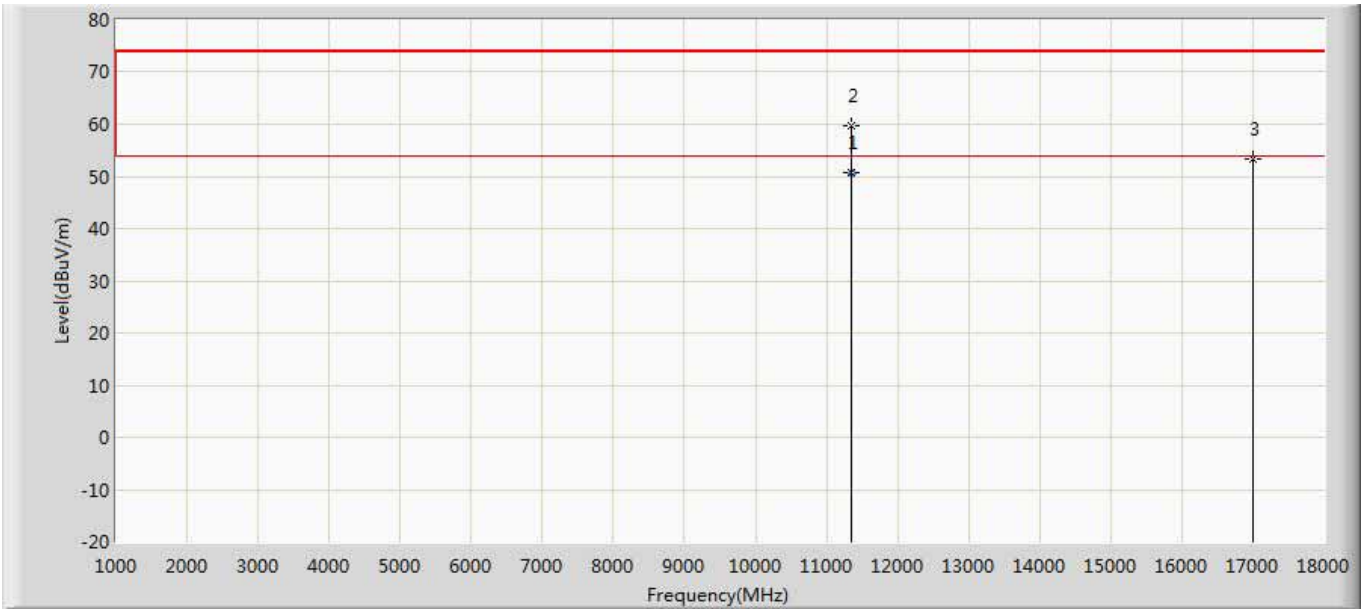
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11100.100	51.105	37.990	-2.895	54.000	13.115	AV
2		11100.290	60.326	47.220	-13.674	74.000	13.105	PK
3		16650.000	52.810	32.672	-21.190	74.000	20.138	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5550MHz by 11ac40	



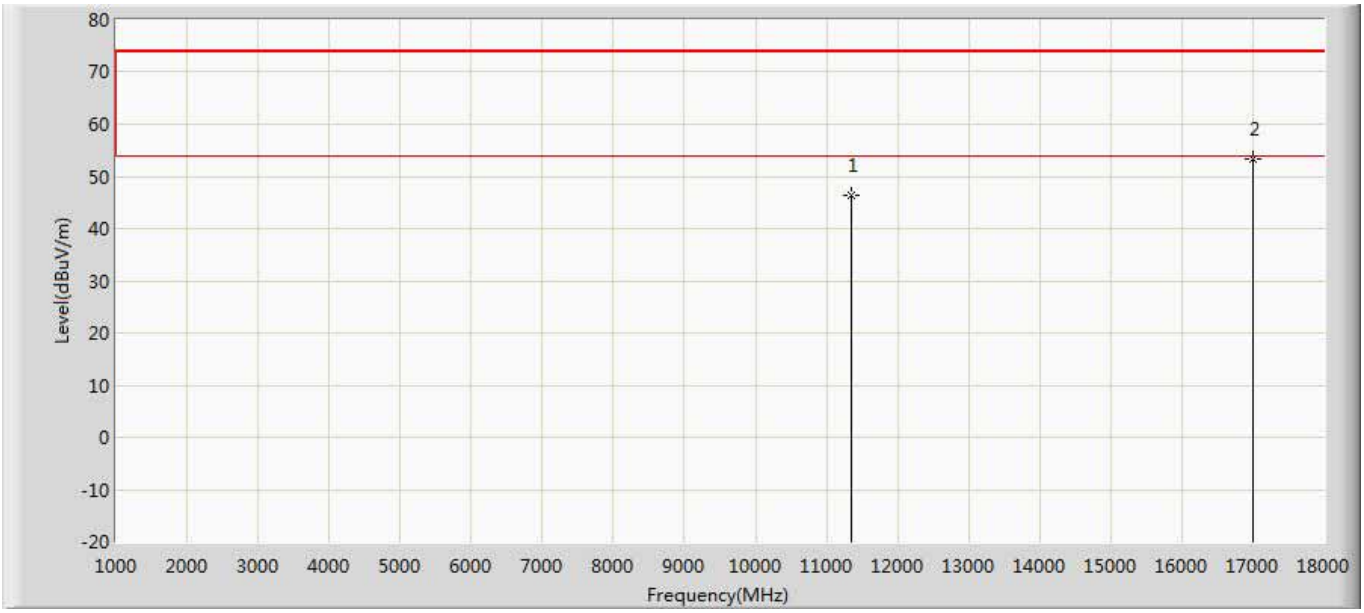
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11100.000	46.466	33.346	-27.534	74.000	13.120	PK
2	*	16650.000	52.810	32.672	-21.190	74.000	20.138	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/10 - 15:31
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5670MHz by 11ac40	



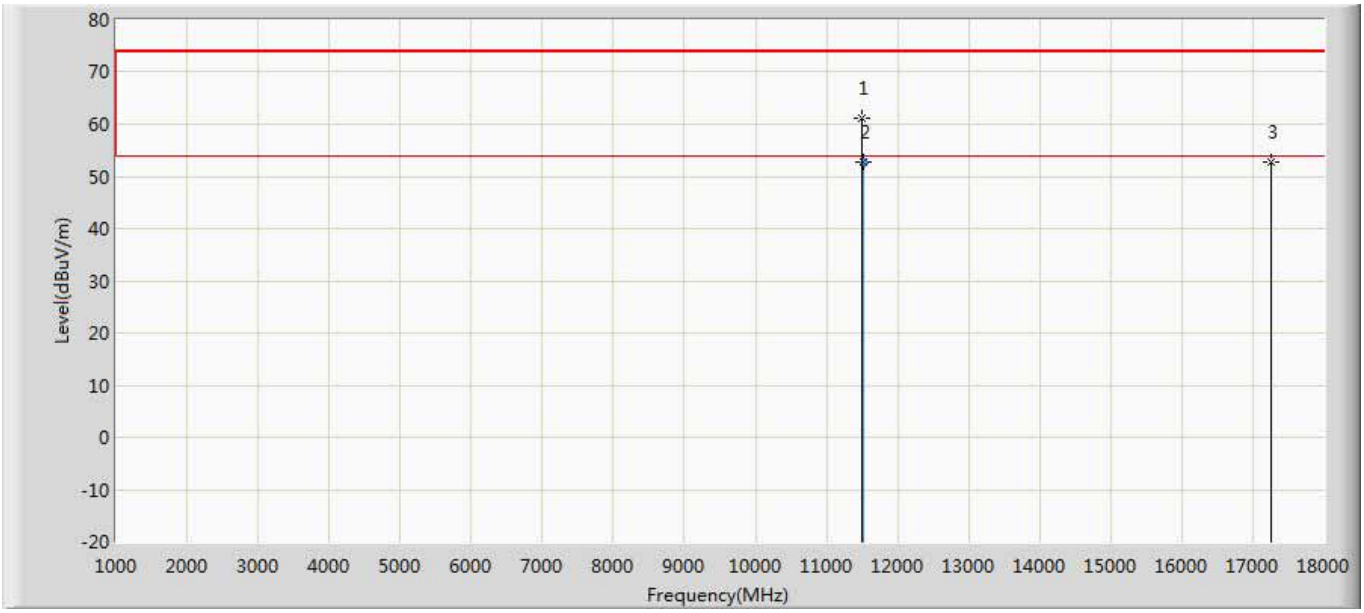
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11339.560	50.607	37.330	-3.393	54.000	13.277	AV
2		11339.780	59.802	46.520	-14.198	74.000	13.281	PK
3		17010.000	53.257	33.103	-20.743	74.000	20.154	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5670MHz by 11ac40	



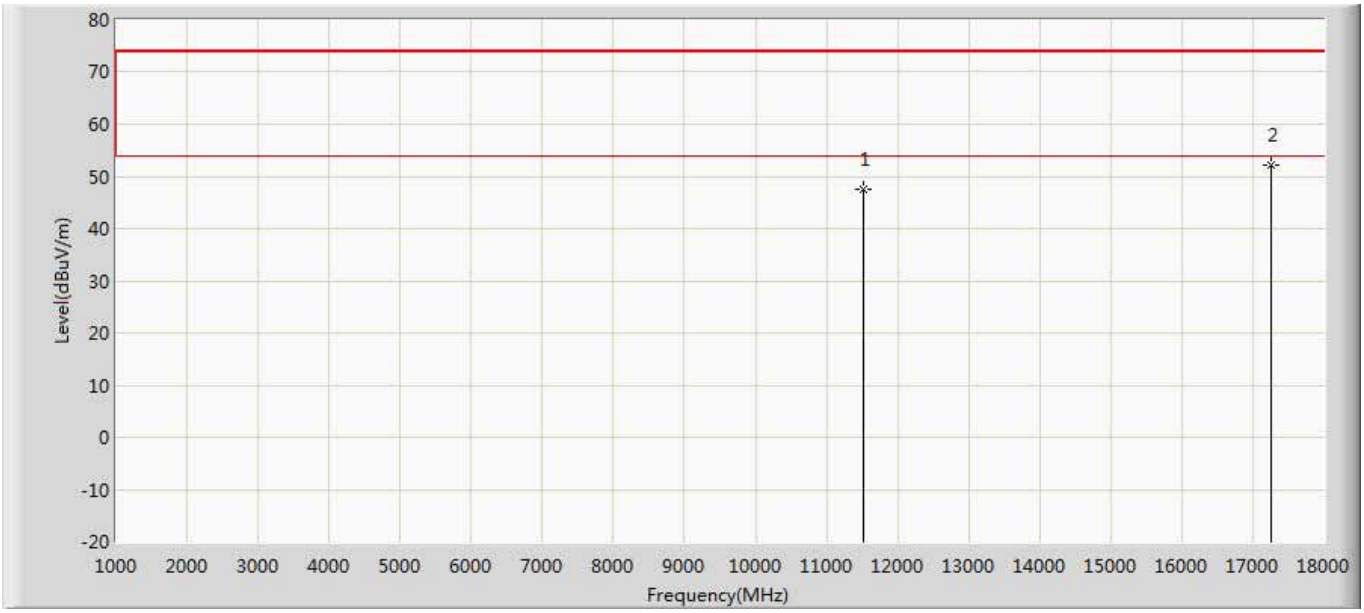
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11340.000	46.325	33.039	-27.675	74.000	13.286	PK
2	*	17010.000	53.257	33.103	-20.743	74.000	20.154	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 17:51
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5755MHz by 11ac40	



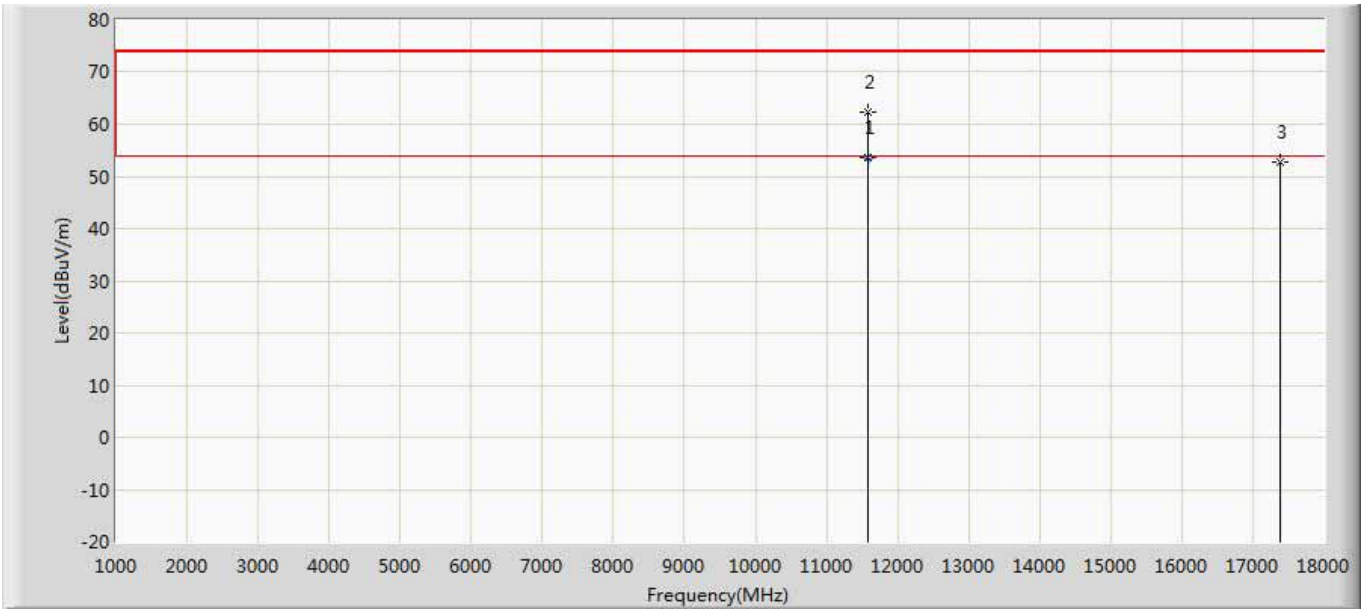
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11506.000	61.251	45.513	-12.749	74.000	15.738	PK
2	*	11509.950	52.886	37.198	-1.114	54.000	15.687	AV
3		17265.000	52.768	32.120	-21.232	74.000	20.647	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5755MHz by 11ac40	



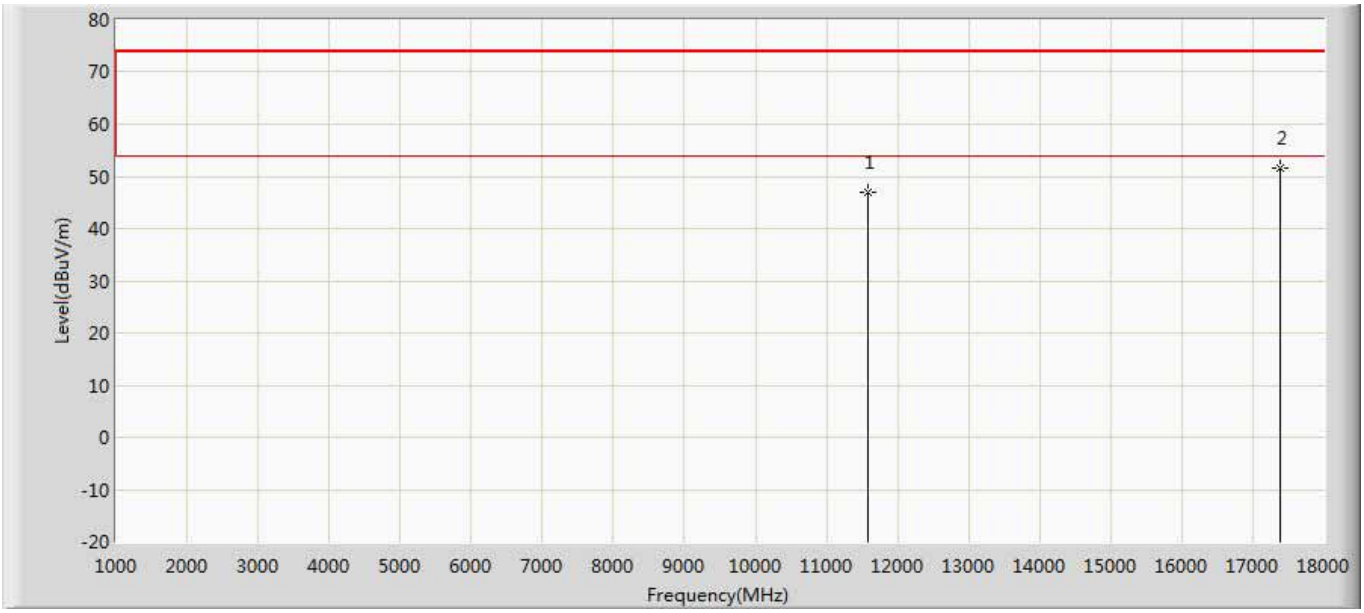
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11510.000	47.474	33.662	-26.526	74.000	13.811	PK
2	*	17265.000	52.163	31.645	-21.837	74.000	20.518	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 17:51
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5795MHz by 11ac40	



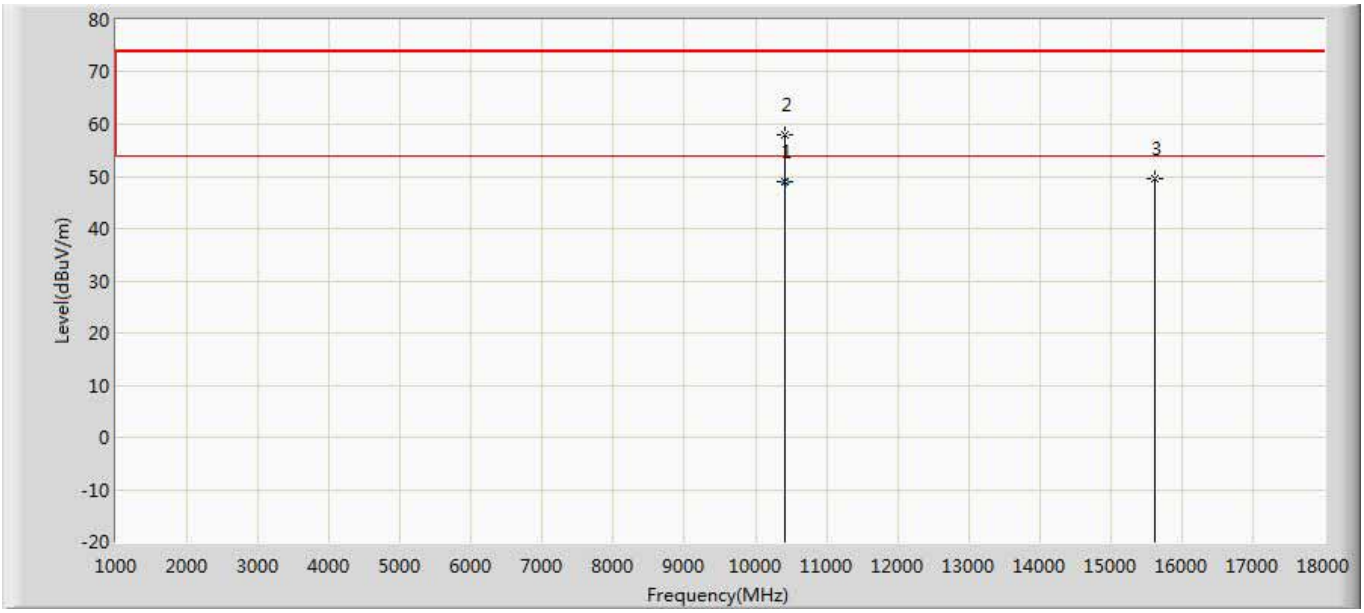
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11590.350	53.551	37.158	-0.449	54.000	16.393	AV
2		11591.000	62.290	45.882	-11.710	74.000	16.408	PK
3		17385.000	52.702	32.110	-21.298	74.000	20.592	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/10 - 15:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5795MHz by 11ac40	



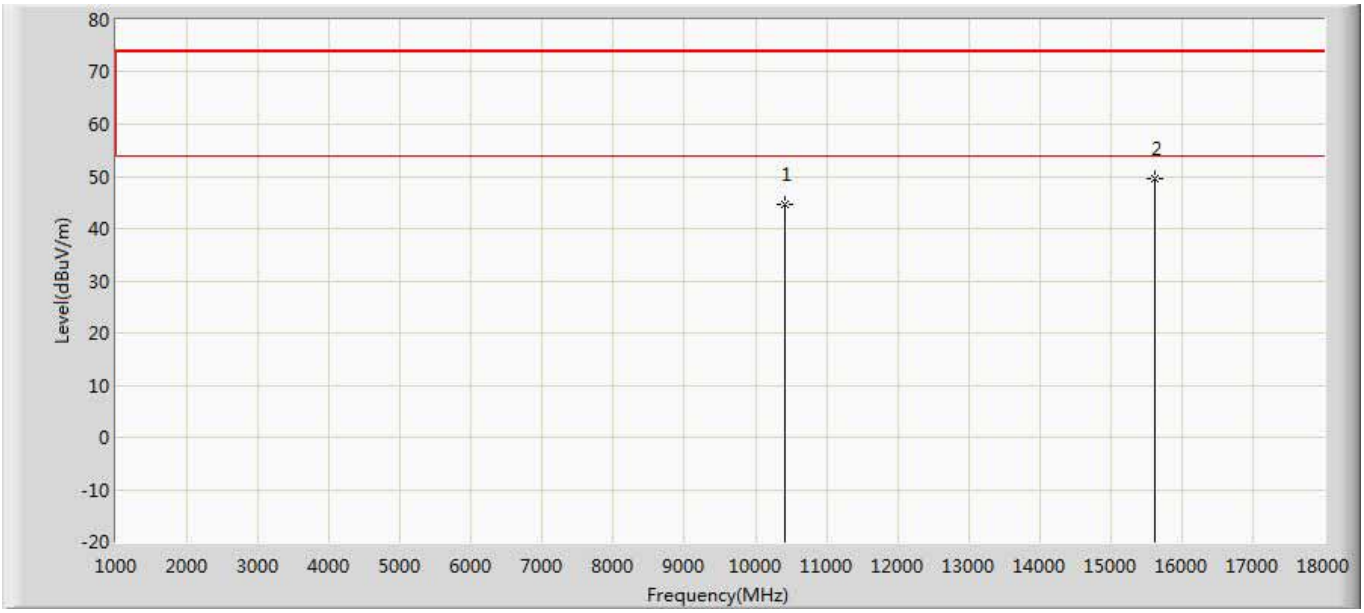
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11590.000	47.021	32.705	-26.979	74.000	14.315	PK
2	*	17385.000	51.723	32.239	-22.277	74.000	19.485	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/10 - 15:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 6:Transmit at 5210MHz by 11ac80	



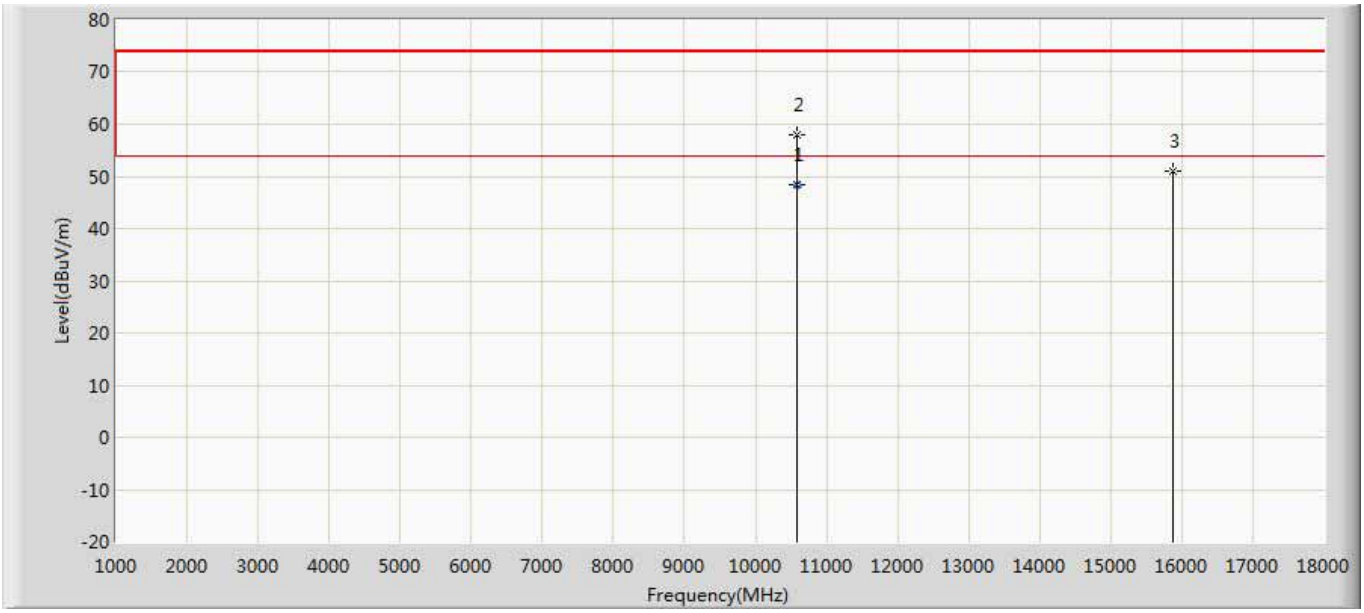
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	10420.210	49.023	37.660	-4.977	54.000	11.363	AV
2		10420.370	57.954	46.580	-16.046	74.000	11.374	PK
3		15630.000	49.535	31.240	-24.465	74.000	18.295	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 6:Transmit at 5210MHz by 11ac80	



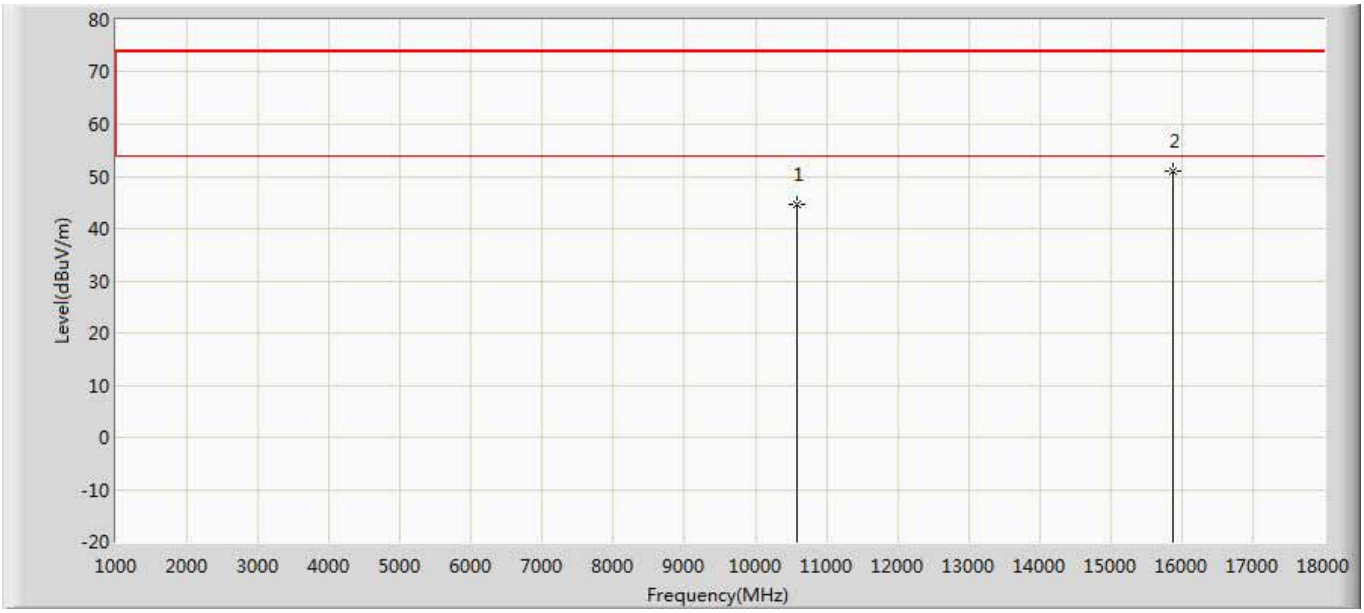
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10420.000	44.556	33.207	-29.444	74.000	11.350	PK
2	*	15630.000	49.535	31.240	-24.465	74.000	18.295	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/10 - 16:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 6:Transmit at 5290MHz by 11ac80	



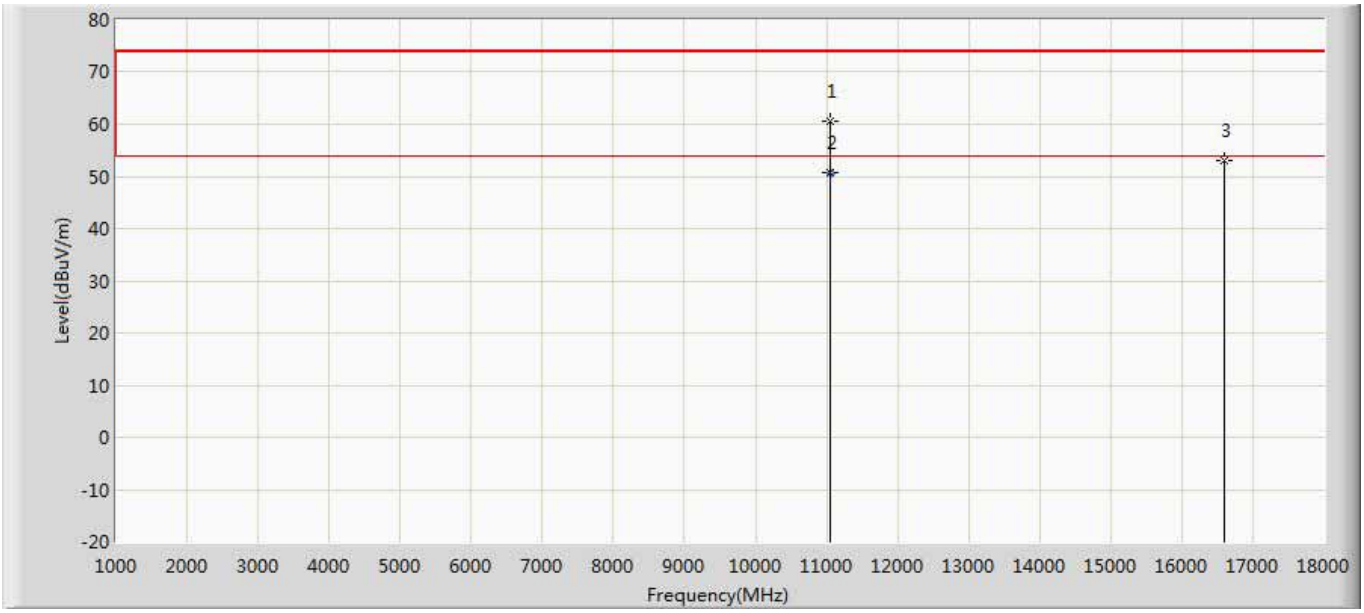
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	10580.280	48.451	36.490	-5.549	54.000	11.961	AV
2		10580.400	57.984	46.020	-16.016	74.000	11.964	PK
3		15870.000	50.972	32.559	-23.028	74.000	18.414	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 6:Transmit at 5290MHz by 11ac80	



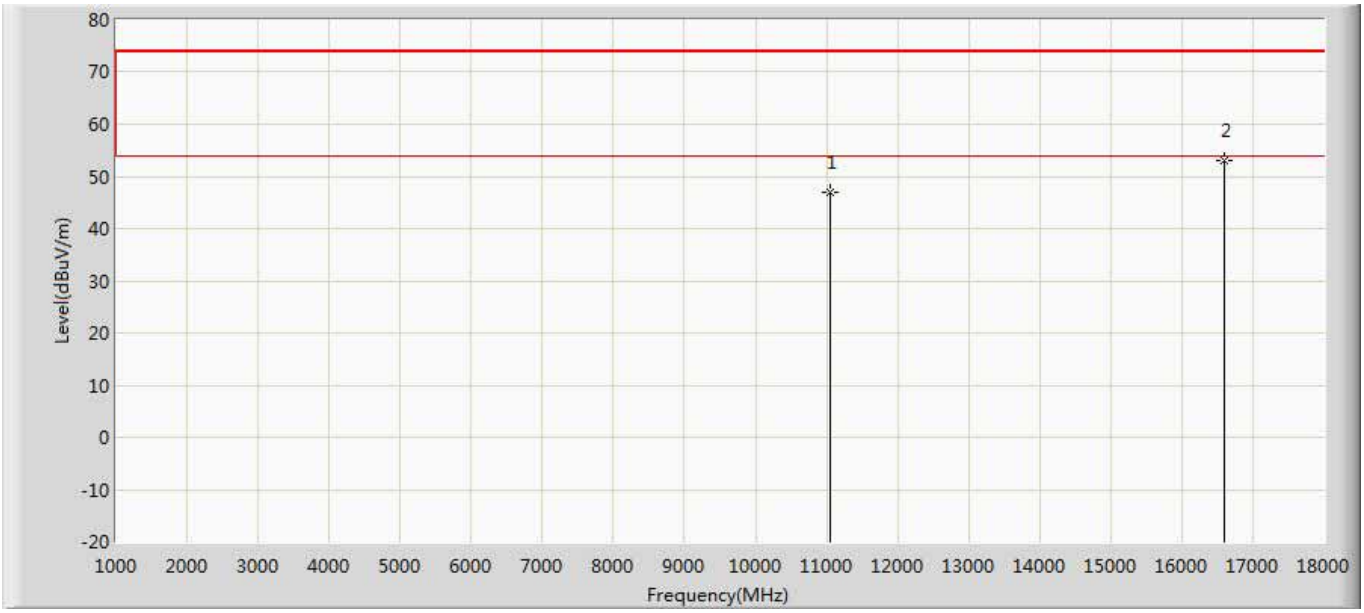
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10580.000	44.505	32.549	-29.495	74.000	11.956	PK
2	*	15870.000	50.972	32.559	-23.028	74.000	18.414	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/10 - 16:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 6:Transmit at 5530MHz by 11ac80	



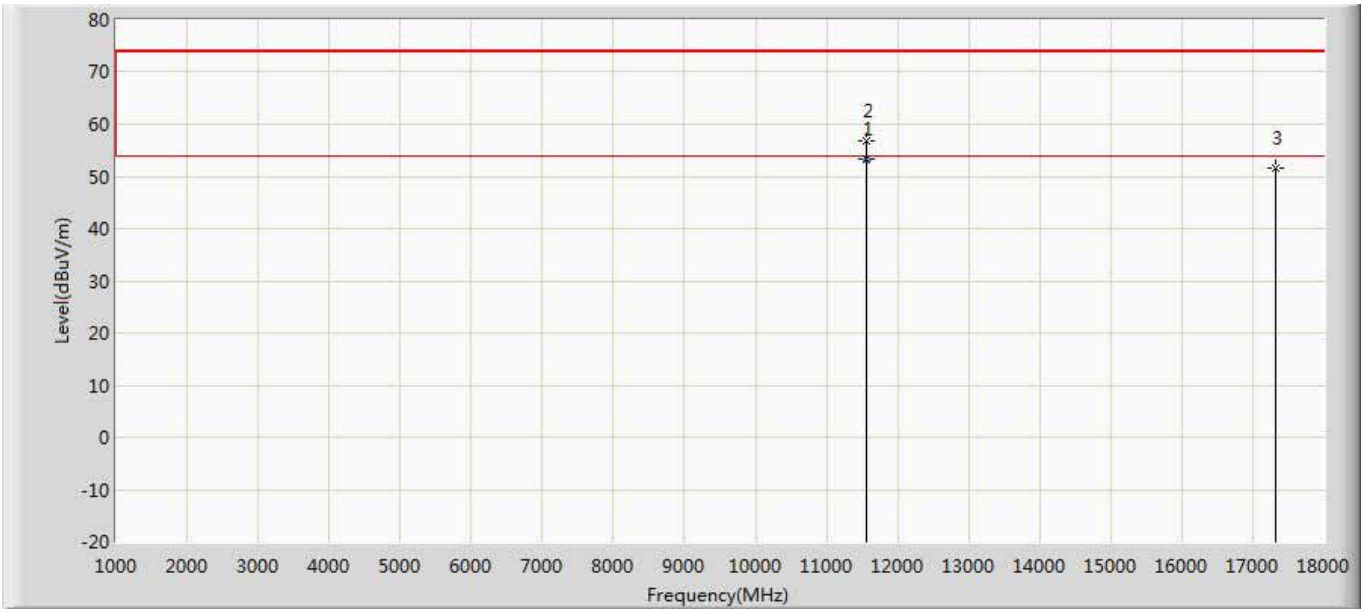
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11059.830	60.463	47.360	-13.537	74.000	13.103	PK
2	*	11059.870	50.653	37.550	-3.347	54.000	13.104	AV
3		16590.000	53.100	33.740	-20.900	74.000	19.360	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 6:Transmit at 5530MHz by 11ac80	



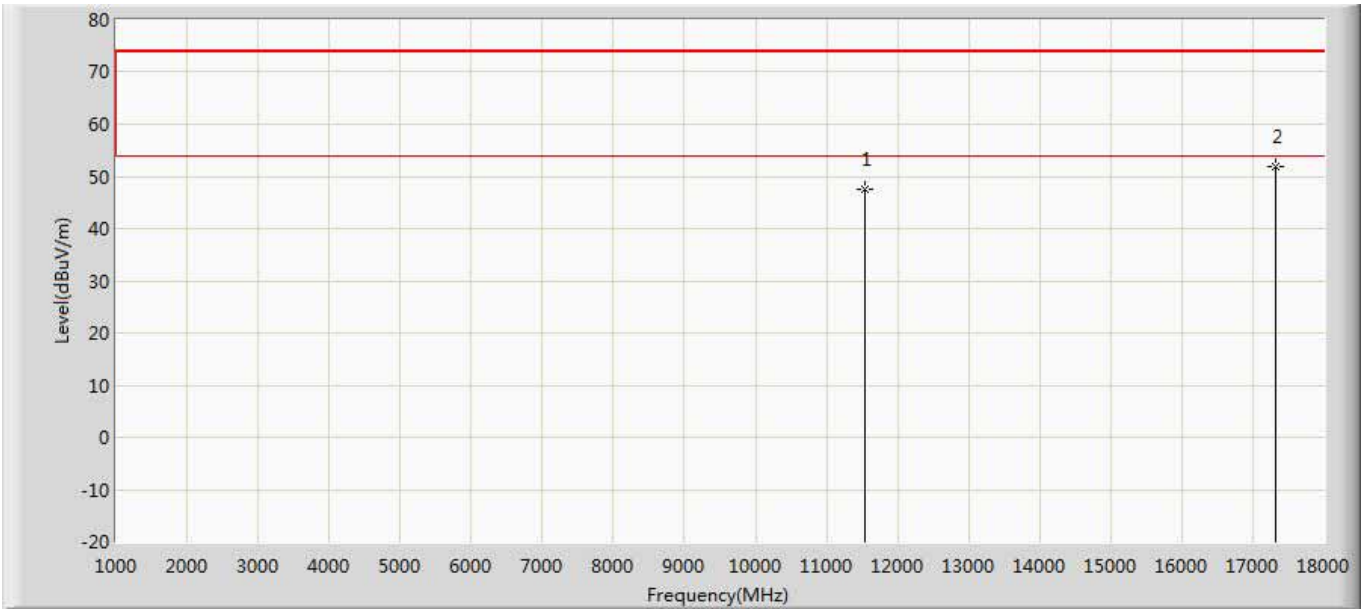
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11060.000	46.817	33.712	-27.183	74.000	13.105	PK
2	*	16590.000	53.100	33.740	-20.900	74.000	19.360	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 17:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 6:Transmit at 5775MHz by 11ac80	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11556.980	53.216	36.560	-0.784	54.000	16.656	AV
2		11557.000	56.730	40.072	-17.270	74.000	16.658	PK
3		17325.000	51.530	30.423	-22.470	74.000	21.107	PK

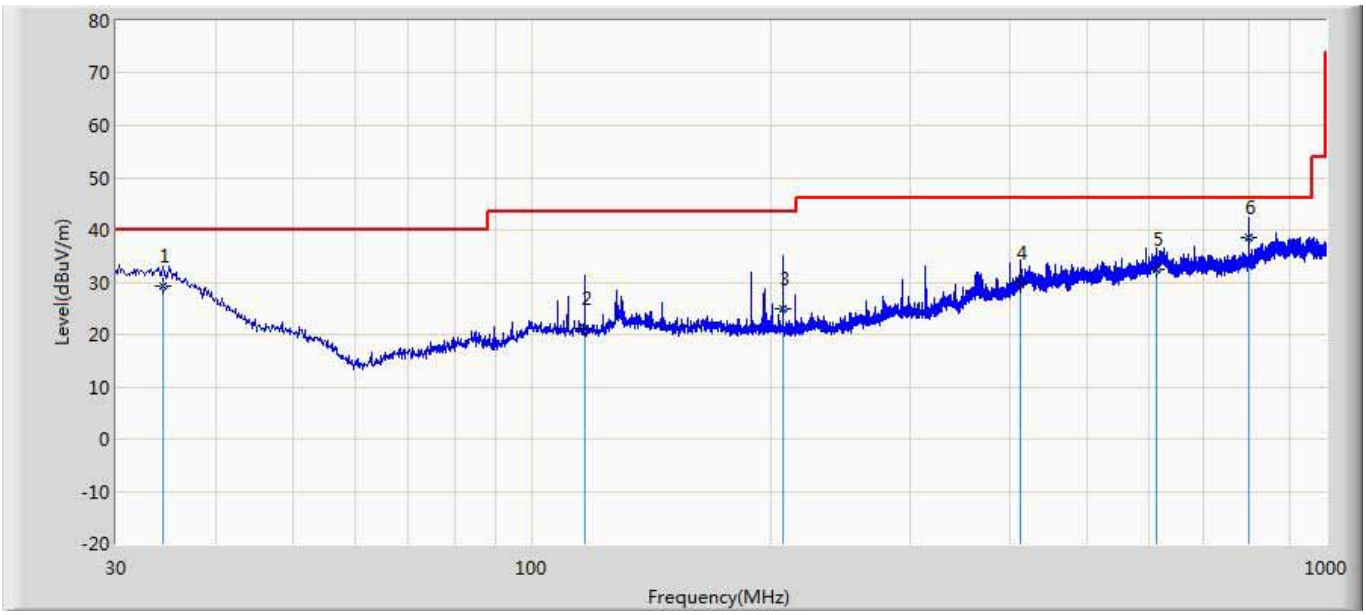
Engineer: Eric	
Site: AC5	Time: 2017/05/09 - 19:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 6:Transmit at 5775MHz by 11ac80	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11550.000	47.473	33.892	-26.527	74.000	13.581	PK
2	*	17325.000	52.028	31.943	-21.972	74.000	20.085	PK

The worst case of Radiated Emission below 1GHz:

Site:AC3	Time: 2017/02/23
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: CB7_CBL6112_0726	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1	

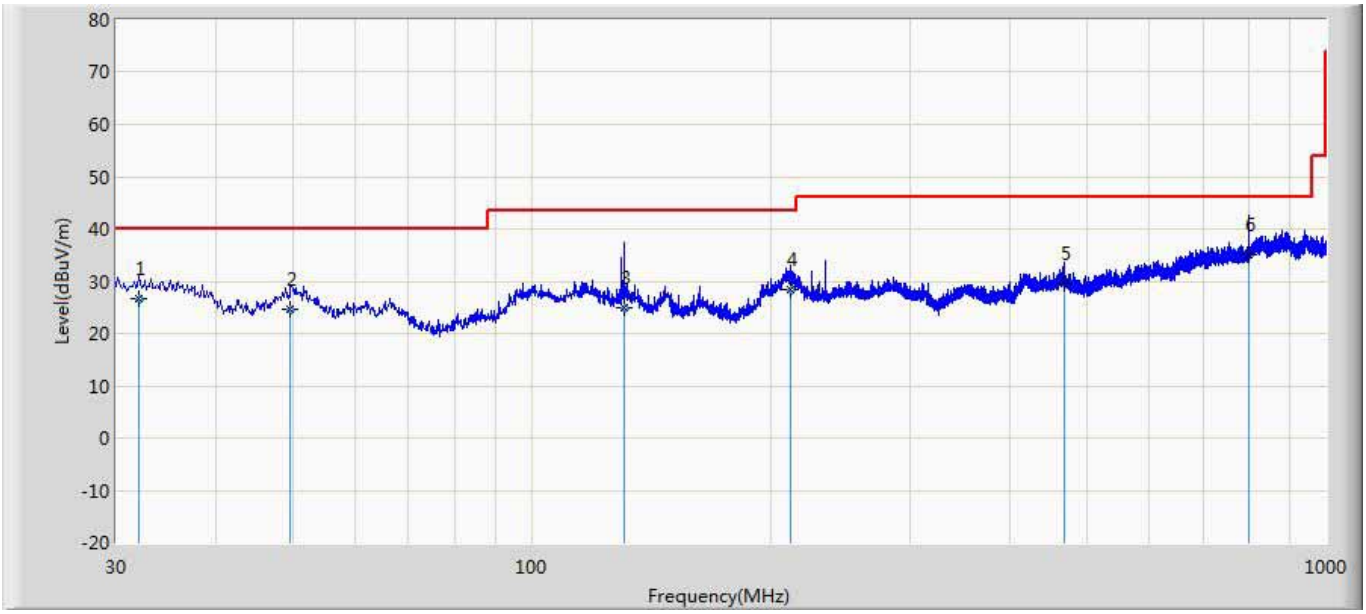


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		34.365	29.152	35.409	-10.848	40.000	16.268	0.635	23.160	100	9	QP
2		116.815	21.289	30.866	-22.211	43.500	12.373	1.165	23.115	200	147	QP
3		207.510	24.966	37.331	-18.534	43.500	9.275	1.560	23.200	100	137	QP
4		412.786	29.880	34.354	-16.120	46.000	16.256	2.240	22.970	100	266	QP
5		610.909	32.335	33.327	-13.665	46.000	19.000	2.709	22.701	100	212	QP
6	*	800.032	38.626	37.836	-7.374	46.000	20.000	3.110	22.320	100	360	QP

Note:

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

Site: AC3	Time: 2017/02/23
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: CB7_CBL6112_0726	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		32.064	26.716	31.613	-13.284	40.000	17.603	0.621	23.121	100	145	QP
2		49.764	24.698	38.667	-15.302	40.000	8.326	0.774	23.069	100	234	QP
3		130.927	24.875	34.878	-18.625	43.500	11.826	1.240	23.070	100	88	QP
4		211.754	28.396	40.818	-15.104	43.500	9.218	1.574	23.214	100	122	QP
5		469.046	29.488	32.593	-16.512	46.000	17.305	2.360	22.770	100	110	QP
6	*	800.059	35.128	34.337	-10.872	46.000	20.001	3.110	22.320	100	77	QP

Note:

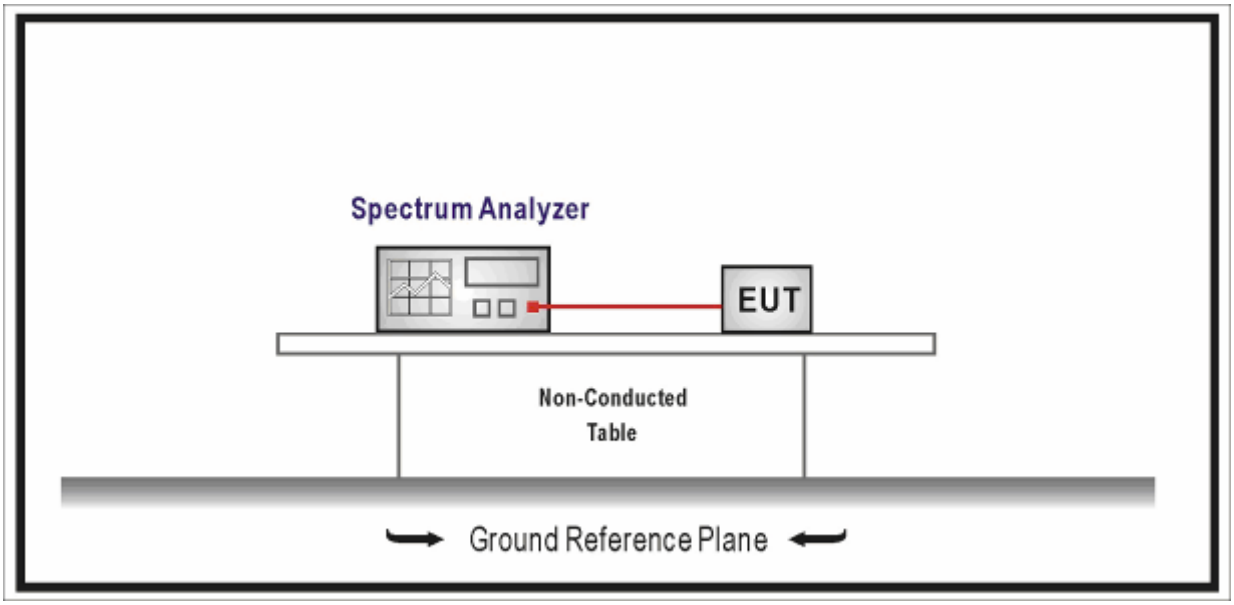
1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

5. Emission bandwidth and occupied bandwidth

5.1. Test Equipment

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

5.2. Test Setup



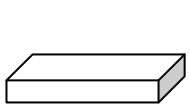
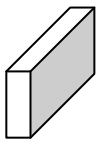
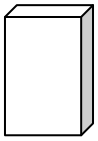
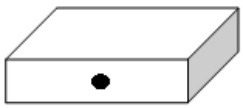
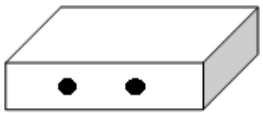
5.3. Limit

N/A

5.4. Test Procedure

Test Method			
	References 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 D02v01r04	C	Bandwidth Measurement
	☒ FCC KDB 789033 D02v01r04	C.1	Emission Bandwidth (26dB)
	☐ FCC KDB 789033 D02v01r04	C.2	Minimum Emission Bandwidth for the band 5.725-5.85 GHz (6dB)
☒	FCC KDB 789033 D02v01r04	D	99 Percent Occupied Bandwidth

5.5. EUT test Axis definition

<table>
<tr><td>Item</td><td colspan="4">Occupied bandwidth</td></tr>
<tr><td rowspan="4">Device Category</td><td>☐</td><td colspan="3">Indoor use</td></tr>
<tr><td>☐</td><td colspan="3">Outdoor use</td></tr>
<tr><td>☐</td><td colspan="3">Fix position use</td></tr>
<tr><td>☒</td><td colspan="3">Client use</td></tr>
<tr><td>Test mode</td><td colspan="4">Mode 1-6</td></tr>
<tr><td rowspan="11">Test method</td><td>☐</td><td colspan="3">Radiated</td></tr>
<tr><td rowspan="3"></td><td>X Axis</td><td>Y Axis</td><td>Z Axis</td></tr>
<tr><td>  </td><td>  </td><td>  </td></tr>
<tr><td>Worst Axis ☐</td><td>Worst Axis ☐</td><td>Worst Axis ☐</td></tr>
<tr><td>☒</td><td colspan="3">Conducted</td></tr>
<tr><td>☒</td><td colspan="3">Chain 1</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☐</td><td>Chain 1</td><td colspan="2">Chain 2</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☐</td><td>Chain 1</td><td>Chain 2</td><td>Chain 3</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
</table>

5.6. Test Result

Product Name	:	Kasa Cam	Power	:	AC 120V/60Hz
Test Mode	:	Mode 1~6	Test Site	:	TR8
Test Date	:	2017.03.21			

Mode 1: Transmit by 802.11a					
Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
36	5180	28.20	16.937	N/A	Pass
40	5220	28.20	16.919	N/A	Pass
48	5240	28.12	16.844	5248.422	Pass
52	5260	28.81	16.929	N/A	Pass
60	5300	28.28	16.875	N/A	Pass
64	5320	28.11	16.858	N/A	Pass
100	5500	30.00	17.259	N/A	Pass
116	5580	30.00	17.296	N/A	Pass
140	5700	29.99	17.292	N/A	Pass
149	5745	30.00	17.354	N/A	Pass
157	5785	29.99	17.403	N/A	Pass
165	5825	30.00	17.587	N/A	Pass

Mode 2: Transmit by 802.11n(20MHz)					
Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
36	5180	29.85	17.770	N/A	Pass
40	5220	29.15	17.718	N/A	Pass
48	5240	29.17	17.739	5248.870	Pass
52	5260	29.78	17.787	N/A	Pass
60	5300	29.90	17.747	N/A	Pass
64	5320	29.88	17.772	N/A	Pass
100	5500	30.00	18.141	N/A	Pass
116	5580	30.00	18.154	N/A	Pass
140	5700	30.00	18.185	N/A	Pass
149	5745	30.00	18.259	N/A	Pass
157	5785	30.00	18.283	N/A	Pass
165	5825	30.00	18.441	N/A	Pass

Mode 3: Transmit by 802.11n(40MHz)					
Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
38	5190	60.00	36.764	N/A	Pass
46	5230	59.58	36.544	5248.272	Pass
54	5270	59.75	36.571	N/A	Pass
62	5310	59.89	36.643	N/A	Pass
102	5510	60.00	37.414	N/A	Pass
110	5550	60.00	37.218	N/A	Pass
134	5670	60.00	37.059	N/A	Pass
151	5755	60.00	37.248	N/A	
159	5795	60.00	37.175	N/A	

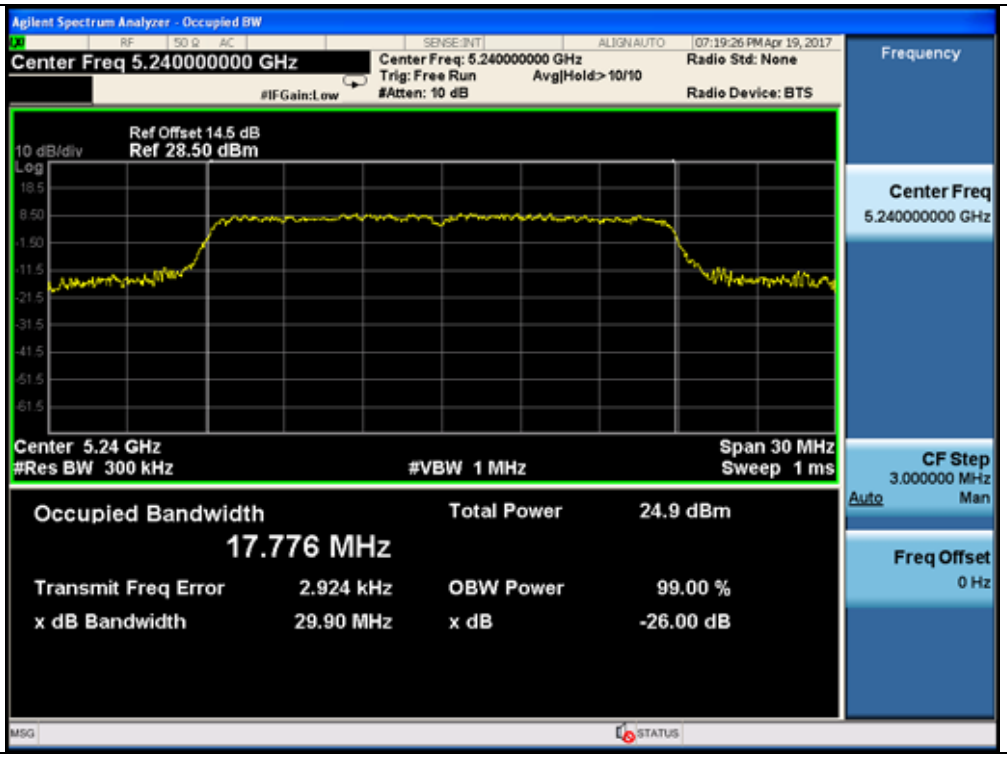
Mode 4: Transmit by 802.11ac(20MHz)					
Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
36	5180	29.80	17.803	N/A	Pass
40	5220	29.59	17.792	N/A	Pass
48	5240	29.90	17.776	5248.888	Pass
52	5260	29.44	17.783	N/A	Pass
60	5300	29.93	17.811	N/A	Pass
64	5320	29.94	17.846	N/A	Pass
100	5500	30.00	18.157	N/A	Pass
116	5580	30.00	18.164	N/A	Pass
140	5700	30.00	18.197	N/A	Pass
149	5745	30.00	18.167	N/A	Pass
157	5785	30.00	18.155	N/A	Pass
165	5825	30.00	18.454	N/A	Pass

Mode 5: Transmit by 802.11ac(40MHz)					
Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
38	5190	60.00	36.712	N/A	Pass
46	5230	59.68	36.674	5248.337	Pass
54	5270	59.92	36.632	N/A	Pass
62	5310	59.90	36.651	N/A	Pass
102	5510	60.00	37.570	N/A	Pass
110	5550	60.00	37.007	N/A	Pass
134	5670	60.00	36.985	N/A	Pass
151	5755	60.00	37.116	N/A	Pass
159	5795	60.00	37.221	N/A	Pass

Mode 6: Transmit by 802.11ac(80MHz)					
Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
42	5210	93.29	75.640	5247.820	Pass
58	5290	117.6	76.121	N/A	Pass
106	5530	120.0	76.607	N/A	Pass
155	5775	120.0	76.647	N/A	Pass

The worst case of Occupied Bandwidth as below:

Mode 4: CH48 (5240MHz)

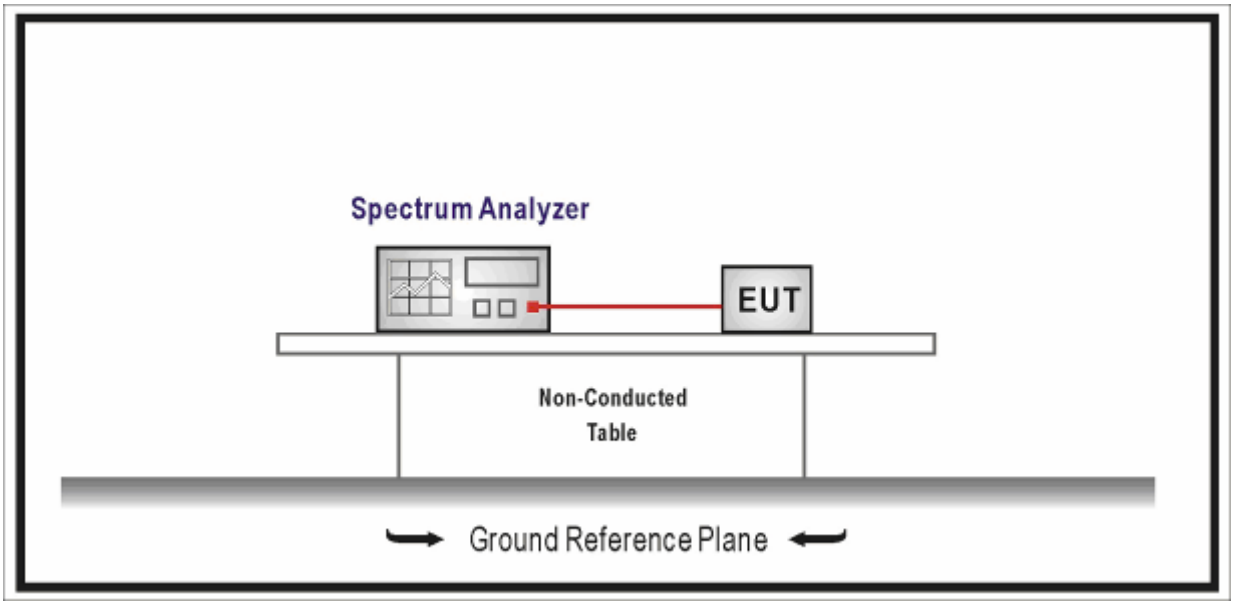


6. 6dB bandwidth

6.1. Test Equipment

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

6.2. Test Setup



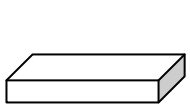
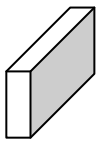
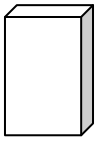
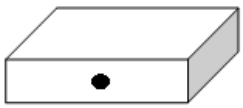
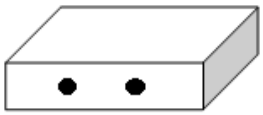
6.3. Limit

>500kHz

6.4. Test Procedure

Test Method			
	References 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 D02v01r04	C	Bandwidth Measurement
	☐ FCC KDB 789033 D02v01r04	C.1	Emission Bandwidth (26dB)
	☒ FCC KDB 789033 D02v01r04	C.2	Minimum Emission Bandwidth for the band 5.725-5.85 GHz (6dB)
☒	FCC KDB 789033 D02v01r04	D	99 Percent Occupied Bandwidth

6.5. EUT test Axis definition

<table>
<tr><td>Item</td><td colspan="4">6dB bandwidth</td></tr>
<tr><td rowspan="4">Device Category</td><td>☐</td><td colspan="3">Indoor use</td></tr>
<tr><td>☐</td><td colspan="3">Outdoor use</td></tr>
<tr><td>☐</td><td colspan="3">Fix position use</td></tr>
<tr><td>☒</td><td colspan="3">Client use</td></tr>
<tr><td>Test mode</td><td colspan="4">Mode 1-6</td></tr>
<tr><td rowspan="11">Test method</td><td>☐</td><td colspan="3">Radiated</td></tr>
<tr><td rowspan="3"></td><td>X Axis</td><td>Y Axis</td><td>Z Axis</td></tr>
<tr><td>  </td><td>  </td><td>  </td></tr>
<tr><td>Worst Axis ☐</td><td>Worst Axis ☐</td><td>Worst Axis ☐</td></tr>
<tr><td>☒</td><td colspan="3">Conducted</td></tr>
<tr><td>☒</td><td colspan="3">Chain 1</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☐</td><td>Chain 1</td><td colspan="2">Chain 2</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☐</td><td>Chain 1</td><td>Chain 2</td><td>Chain 3</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
</table>

6.6. Test Result

Product Name	:	Kasa Cam	Power	:	AC 120V/60Hz
Test Mode	:	Mode 1~6	Test Site	:	TR8
Test Date	:	2017.03.21			

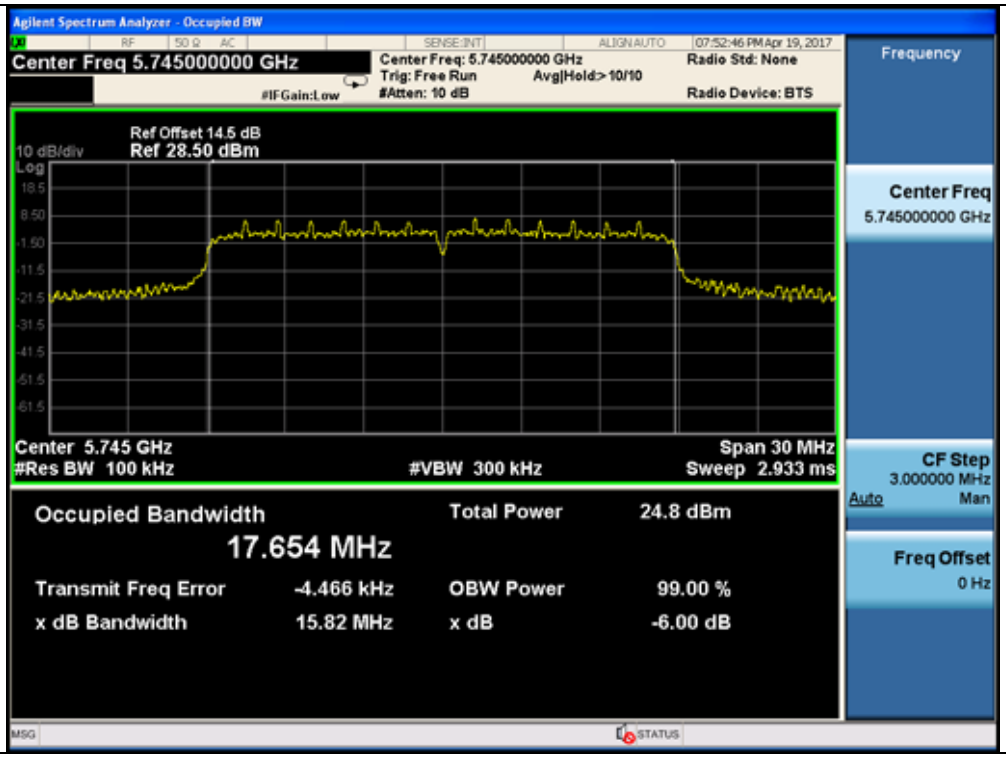
Mode 1: Transmit by 802.11a				
Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
149	5745	16.02	>500	Pass
157	5785	16.32		Pass
165	5825	16.33		Pass
Mode 2: Transmit by 802.11n(20MHz)				
Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
149	5745	16.87	>500	Pass
157	5785	16.53		Pass
165	5825	16.33		Pass
Mode 3: Transmit by 802.11n(40MHz)				
Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
151	5755	35.83	>500	Pass
159	5795	35.62		Pass
Mode 4: Transmit by 802.11ac(20MHz)				
Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
149	5745	15.82	>500	Pass
157	5785	16.55		Pass
165	5825	16.31		Pass

Mode 5: Transmit by 802.11ac(40MHz)				
Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
151	5755	35.69	>500	Pass
159	5795	35.62		Pass

Mode 6: Transmit by 802.11ac(80MHz)				
Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
155	5775	75.33	>500	Pass

The worst case of 6dB Bandwidth as below:

Mode 4: CH149 (5745MHz) Ant 1

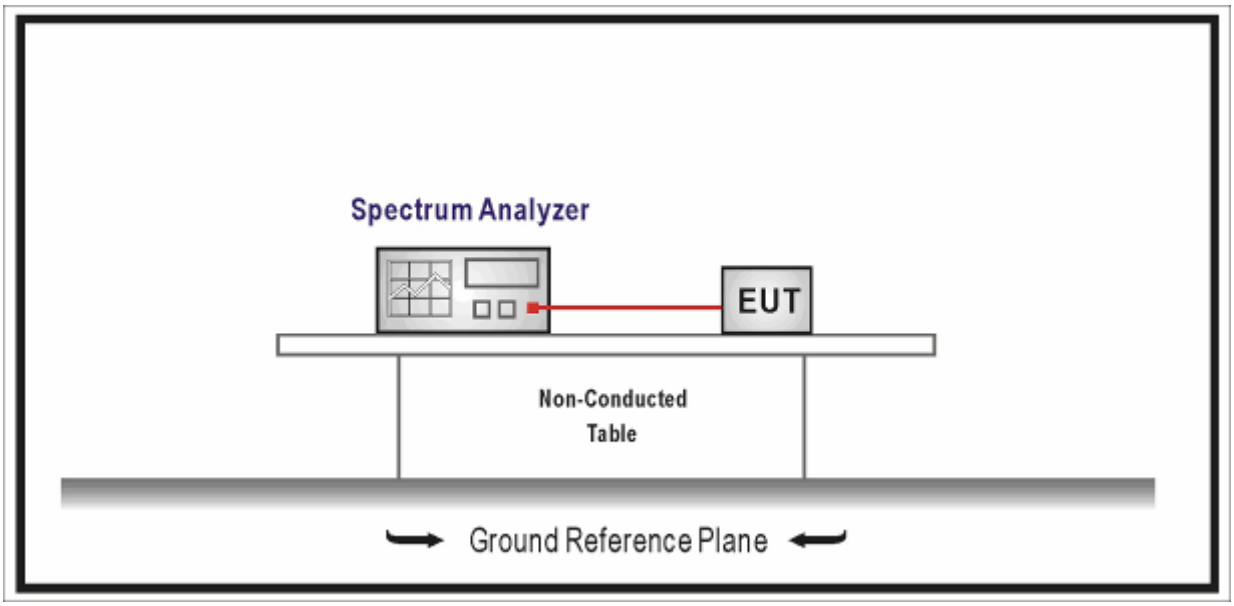


7. Power Output

7.1. Test Equipment

Power Output / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2017.01.04	2018.01.03
Spectrum Analyzer	Agilent	N9010A	MY48030494	2017.02.04	2018.02.03
Wideband Peak Power Meter	Anritsu	ML2495A	0905006	2016.10.14	2017.10.13
Power Sensor	Anritsu	MA2411B	0846014	2016.10.14	2017.10.13
Temperature/Humidity Meter	zhicheng	ZC1-2	TR8-TH	2017.04.10	2018.04.09
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

7.2. Test Setup



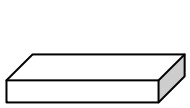
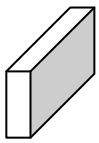
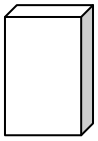
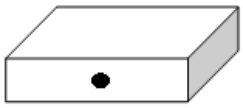
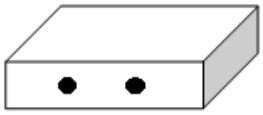
7.3. Limit

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

7.4. Test Procedure

Fundamental emission output power Test Method					
	References Rule			Chapter	Description
☒	ANSI C63.10			12.3	Maximum conducted output power
	☒	ANSI C63.10		12.3.2	Maximum conducted output power measurement using a spectrum analyzer (SA) or EMI receiver
		☐	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

7.5. EUT test Axis definition

<table>
<tr><td>Item</td><td colspan="4">Power Output</td></tr>
<tr><td rowspan="4">Device Category</td><td>☐</td><td colspan="3">Indoor use</td></tr>
<tr><td>☐</td><td colspan="3">Outdoor use</td></tr>
<tr><td>☐</td><td colspan="3">Fix position use</td></tr>
<tr><td>☒</td><td colspan="3">Client use</td></tr>
<tr><td>Test mode</td><td colspan="4">Mode 1-6</td></tr>
<tr><td rowspan="13">Test method</td><td>☐</td><td colspan="3">Radiated</td></tr>
<tr><td rowspan="3"></td><td>X Axis</td><td>Y Axis</td><td>Z Axis</td></tr>
<tr><td>  </td><td>  </td><td>  </td></tr>
<tr><td>Worst Axis ☐</td><td>Worst Axis ☐</td><td>Worst Axis ☐</td></tr>
<tr><td>☒</td><td colspan="3">Conducted</td></tr>
<tr><td>☒</td><td colspan="3">Chain 1</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☐</td><td>Chain 1</td><td colspan="2">Chain 2</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☐</td><td>Chain 1</td><td>Chain 2</td><td>Chain 3</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
</table>

7.6. Test Result

Product Name	:	Kasa Cam	Power	:	AC 120V/60Hz
Test Mode	:	Mode 1~6	Test Site	:	TR8
Test Date	:	2017.03.25			

Mode 1: Transmit by 802.11a				
Channel No.	Frequency (MHz)	Measurement Power	Limit (dBm)	Result
		Ant1		
CH36	5180	18.47	24.0	Pass
CH44	5200	21.07	24.0	Pass
CH48	5240	23.17	24.0	Pass
CH52	5260	22.04	24.0	Pass
CH60	5300	21.57	24.0	Pass
CH64	5320	17.72	24.0	Pass
CH100	5500	19.04	24.0	Pass
CH104	5520	21.69	24.0	Pass
CH116	5580	22.83	24.0	Pass
CH140	5700	22.09	24.0	Pass
CH149	5745	21.45	30.0	Pass
CH157	5785	21.43	30.0	Pass
CH165	5825	21.38	30.0	Pass

Mode 2: Transmit by 802.11n(20MHz)				
Channel No.	Frequency (MHz)	Measurement Power	Limit (dBm)	Result
		Ant1		
CH36	5180	18.28	24.0	Pass
CH44	5200	21.05	24.0	Pass
CH48	5240	23.16	24.0	Pass
CH52	5260	22.64	24.0	Pass
CH60	5300	21.53	24.0	Pass
CH64	5320	17.84	24.0	Pass
CH100	5500	19.14	24.0	Pass
CH104	5520	21.81	24.0	Pass
CH116	5580	22.73	24.0	Pass
CH140	5700	22.23	24.0	Pass
CH149	5745	21.53	30.0	Pass

CH157	5785	21.46	30.0	Pass
CH165	5825	21.44	30.0	Pass

Mode 3: Transmit by 802.11n(40MHz)

Channel No.	Frequency (MHz)	Measurement Power	Limit (dBm)	Result
		Ant1		
CH38	5190	15.61	24.0	Pass
CH46	5230	19.26	24.0	Pass
CH54	5270	19.12	24.0	Pass
CH62	5310	15.04	24.0	Pass
CH102	5510	16.38	24.0	Pass
CH110	5550	20.78	24.0	Pass
CH134	5670	22.23	24.0	Pass
CH151	5755	20.58	30.0	Pass
CH159	5795	21.04	30.0	Pass

Mode 4: Transmit by 802.11ac(20MHz)

Channel No.	Frequency (MHz)	Measurement Power	Limit (dBm)	Result
		Ant1		
CH36	5180	18.54	24.0	Pass
CH44	5200	21.01	24.0	Pass
CH48	5240	23.35	24.0	Pass
CH52	5260	22.46	24.0	Pass
CH60	5300	21.51	24.0	Pass
CH64	5320	17.71	24.0	Pass
CH100	5500	19.31	24.0	Pass
CH104	5520	21.67	24.0	Pass
CH116	5580	22.84	24.0	Pass
CH140	5700	22.25	24.0	Pass
CH149	5745	21.54	30.0	Pass
CH157	5785	21.47	30.0	Pass
CH165	5825	21.51	30.0	Pass

Mode 5: Transmit by 802.11ac(40MHz)				
Channel No.	Frequency (MHz)	Measurement Power	Limit (dBm)	Result
		Ant1		
CH38	5190	15.95	24.0	Pass
CH46	5230	19.16	24.0	Pass
CH54	5270	19.21	24.0	Pass
CH62	5310	15.14	24.0	Pass
CH102	5510	16.42	24.0	Pass
CH110	5550	20.67	24.0	Pass
CH134	5670	22.31	24.0	Pass
CH151	5755	20.61	30.0	Pass
CH159	5795	21.06	30.0	Pass
Mode 6: Transmit by 802.11ac(80MHz)				
Channel No.	Frequency (MHz)	Measurement Power (dBm)	Limit (dBm)	Result
		Ant1		
CH42	5210	13.18	24.0	Pass
CH58	5290	14.74	24.0	Pass
CH106	5530	12.36	24.0	Pass
CH155	5775	17.41	30.0	Pass

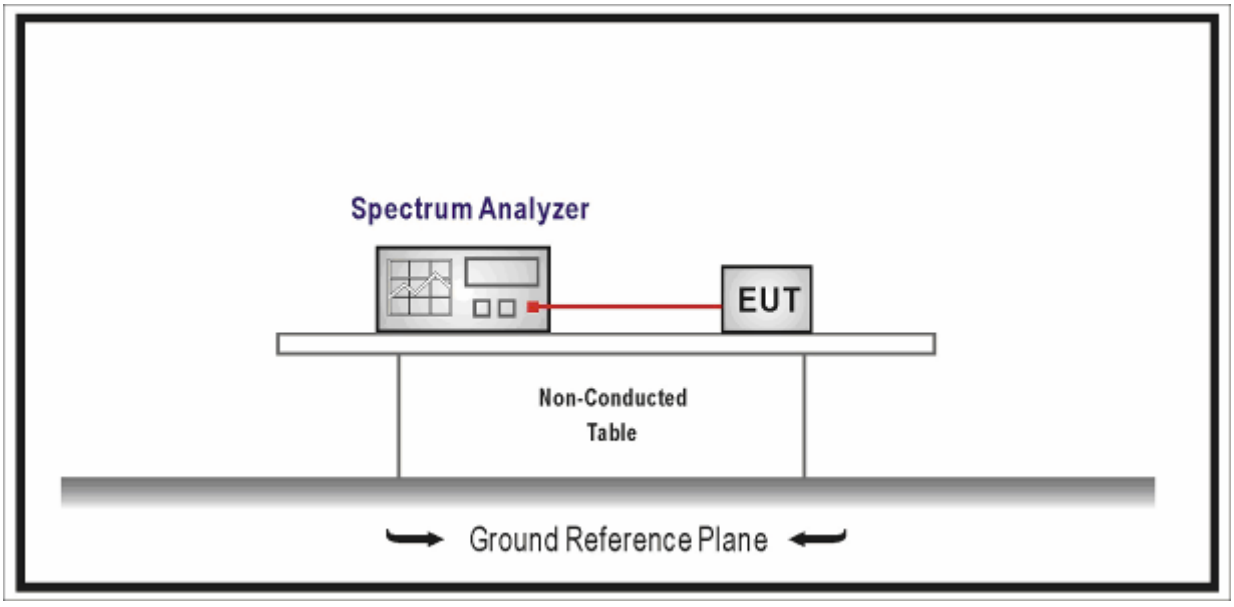
Note: The lowest 26dB bandwidth was used for calculate the power limit according to the formate(11+10*LogB). The level is 25.5dBm which is higher than 24dBm, so 24dbm was used for power limit.

8. Peak Power Spectral Density

8.1. Test Equipment

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

8.2. Test Setup



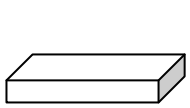
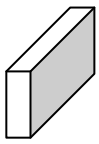
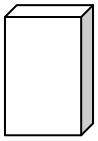
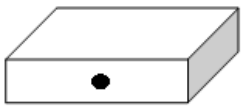
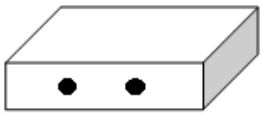
8.3. Limit

Fundamental emission output power Limit		
☒	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 .		

8.4. Test Procedure

Fundamental emission output power Test Method			
	References Rule	Chapter	Description
☒	ANSI C63.10	12.5	Peak power spectral density
☒	FCC KDB 789033 D02v01r04	F	Maximum Power Spectral Density (PSD)

8.5. EUT test Axis definition

<table>
<tr><td>Item</td><td colspan="4">Peak power spectral density</td></tr>
<tr><td rowspan="4">Device Category</td><td>☐</td><td colspan="3">Indoor use</td></tr>
<tr><td>☐</td><td colspan="3">Outdoor use</td></tr>
<tr><td>☐</td><td colspan="3">Fix position use</td></tr>
<tr><td>☒</td><td colspan="3">Client use</td></tr>
<tr><td>Test mode</td><td colspan="4">Mode 1-6</td></tr>
<tr><td rowspan="11">Test method</td><td>☐</td><td colspan="3">Radiated</td></tr>
<tr><td rowspan="3"></td><td>X Axis</td><td>Y Axis</td><td>Z Axis</td></tr>
<tr><td>  </td><td>  </td><td>  </td></tr>
<tr><td>Worst Axis ☐</td><td>Worst Axis ☐</td><td>Worst Axis ☐</td></tr>
<tr><td>☒</td><td colspan="3">Conducted</td></tr>
<tr><td>☒</td><td colspan="3">Chain 1</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☐</td><td>Chain 1</td><td colspan="2">Chain 2</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☐</td><td>Chain 1</td><td>Chain 2</td><td>Chain 3</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
</table>

8.6. Test Result

Product Name	:	Kasa Cam	Power	:	AC 120V/60Hz
Test Mode	:	Mode 1~6	Test Site	:	TR8
Test Date	:	2017.03.22			

Mode 1: Transmit by 802.11a				
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant1		
CH36	5180	7.578	11.0	Pass
CH44	5220	10.520	11.0	Pass
CH48	5240	10.766	11.0	Pass
CH52	5260	10.498	11.0	Pass
CH60	5300	10.712	11.0	Pass
CH64	5320	6.770	11.0	Pass
CH100	5500	7.967	11.0	Pass
CH116	5580	10.460	11.0	Pass
CH140	5700	10.764	11.0	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)	Limit (dBm/500KHz)	Result
		Ant1		
CH149	5745	7.041	30.0	Pass
CH157	5785	6.311	30.0	Pass
CH165	5825	6.371	30.0	Pass

Mode 2: Transmit by 802.11n(20MHz)				
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant1		
CH36	5180	7.007	11.0	Pass
CH44	5220	10.988	11.0	Pass
CH48	5240	10.692	11.0	Pass
CH52	5260	9.946	11.0	Pass
CH60	5300	10.125	11.0	Pass
CH64	5320	6.516	11.0	Pass
CH100	5500	7.609	11.0	Pass
CH116	5580	10.233	11.0	Pass
CH140	5700	10.498	11.0	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)	Limit (dBm/500KHz)	Result
		Ant1		
CH149	5745	6.490	30.0	Pass
CH157	5785	6.401	30.0	Pass
CH165	5825	5.823	30.0	Pass
Mode 3: Transmit by 802.11n(40MHz)				
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant1		
CH38	5190	0.989	11.0	Pass
CH46	5230	5.679	11.0	Pass
CH54	5270	5.575	11.0	Pass
CH62	5310	-0.453	11.0	Pass
CH102	5510	1.283	11.0	Pass
CH110	5550	6.032	11.0	Pass
CH134	5670	7.018	11.0	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)	Limit (dBm/500KHz)	Result
		Ant1		
CH151	5755	2.496	30.0	Pass
CH159	5795	2.687	30.0	Pass

Mode 4: Transmit by 802.11ac(20MHz)				
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant1		
CH36	5180	7.249	11.0	Pass
CH44	5220	10.988	11.0	Pass
CH48	5240	10.620	11.0	Pass
CH52	5260	10.138	11.0	Pass
CH60	5300	10.121	11.0	Pass
CH64	5320	6.217	11.0	Pass
CH100	5500	7.715	11.0	Pass
CH116	5580	10.174	11.0	Pass
CH140	5700	10.186	11.0	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)	Limit (dBm/500KHz)	Result
		Ant1		
CH149	5745	6.587	30.0	Pass
CH157	5785	6.373	30.0	Pass
CH165	5825	5.750	30.0	Pass

Mode 5: Transmit by 802.11ac(40MHz)				
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant1		
CH38	5190	0.506	11.0	Pass
CH46	5230	5.982	11.0	Pass
CH54	5270	6.724	11.0	Pass
CH62	5310	-0.161	11.0	Pass
CH102	5510	1.551	11.0	Pass
CH110	5550	5.111	11.0	Pass
CH134	5670	6.776	11.0	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)	Limit (dBm/500KHz)	Result
		Ant1		
CH151	5755	2.650	30.0	Pass
CH159	5795	2.856	30.0	Pass

Mode 6: Transmit by 802.11ac(80MHz)				
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant1		
CH42	5210	-6.792	11.0	Pass
CH58	5290	-6.400	11.0	Pass
CH106	5530	-6.708	11.0	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)	Limit (dBm/500KHz)	Result
		Ant1		
CH155	5775	-4.265	30.0	Pass

The worst case of 6dB Bandwidth as below:

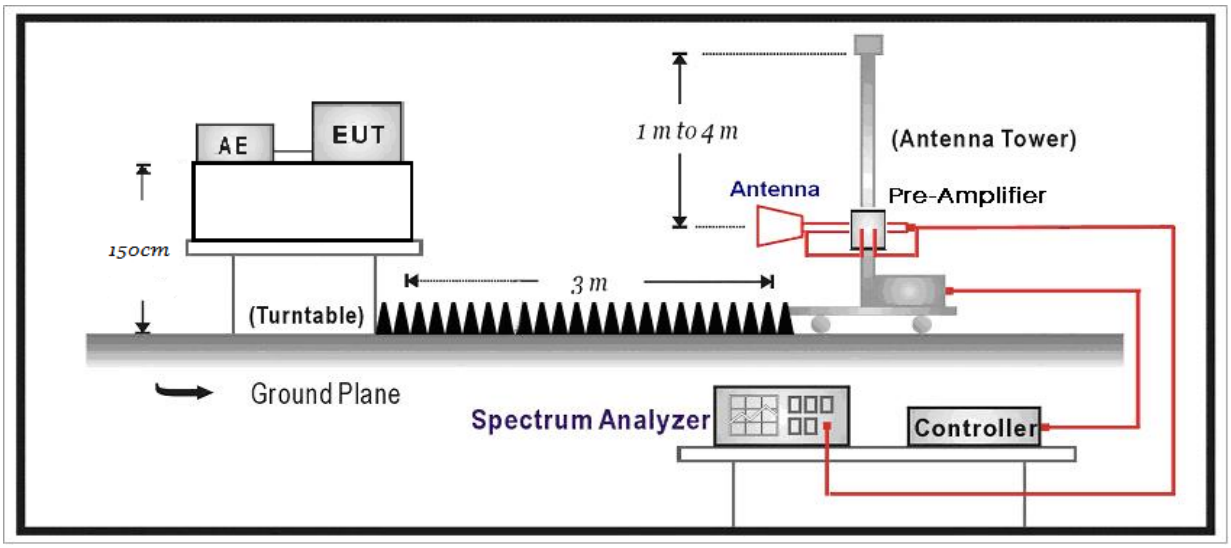
Mode 1 CH44 (5220MHz) Ant 1

9. Radiated Emission Band Edge

9.1. Test Equipment

Radiated Emission Band Edge / AC-5					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Receiver	Agilent	N9038A	MY51210196	2017.07.16	2018.07.15
Pre-Amplifier	Miteq	NSP1800-25	1364185	2017.05.03	2018.05.02
DRG Horn Antenna	ETS-Lindgren	3117	00167055	2017.07.12	2018.07.11
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2016.09.18	2017.09.17
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C1	2017.02.28	2018.02.27
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2017.02.28	2018.02.27
Temperature/Humidity Meter	Zhichen	ZC1-2	AC5-TH	2017.01.05	2018.01.04
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

9.2. Test Setup



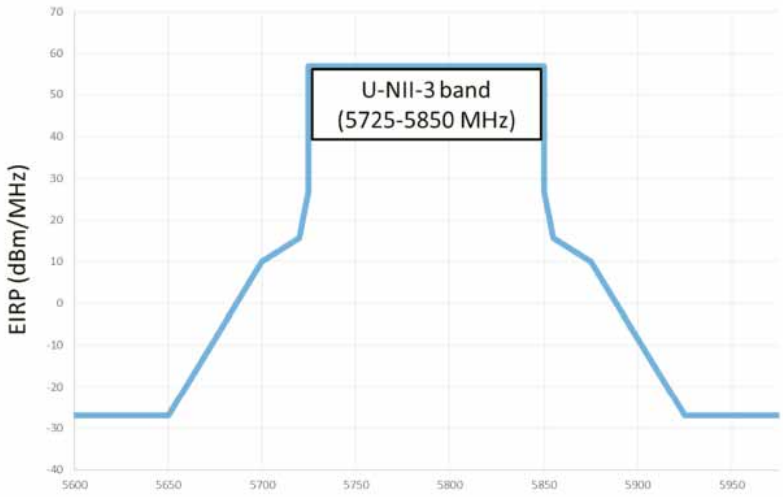
9.3. Limit

FCC Part 15 Subpart C Paragraph 15.209 (Restricted Band Emissions Limit)		
Frequency (MHz)	Distance (m)	Level (dBµV/m)
0.009-0.490	300	2400/F(kHz)
0.490-1.705	30	24000/F(kHz)
1.705-30.0	30	30
30-88	3	100**
88-216	3	150**
216-960	3	200**
Above 960	3	500

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).

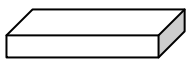
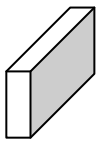
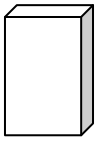
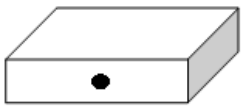
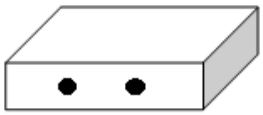
FCC Part 15 Subpart C Paragraph 15.205 (Restricted Band)			
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)
0.090 – 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15
0.495 – 0.505	16.69475 –16.69525	608 – 614	5.35 – 5.46
2.1735 – 2.1905	16.80425 – 16.80475	960 – 1240	7.25 – 7.75
4.125 – 4.128	25.5 – 25.67	1300 – 1427	8.025 – 8.5
4.17725 – 4.17775	37.5 – 38.25	1435 – 1626.5	9.0 – 9.2
4.20725 – 4.20775	73 – 74.6	1645.5 – 1646.5	9.3 – 9.5
6.215 – 6.218	74.8 – 75.2	1660 – 1710	10.6 – 12.7
6.26775 – 6.26825	108 – 121.94	1718.8 – 1722.2	13.25 – 13.4
6.31175 – 6.31225	123 – 138	2200 – 2300	14.47 – 14.5
8.291 – 8.294	149.9 – 150.05	2310 – 2390	15.35 – 16.2
8.362 – 8.366	156.52475 – 156.52525	2483.5 – 2500	17.7 – 21.4
8.37625 – 8.38675	156.7 – 156.9	2690 – 2900	22.01 – 23.12
8.81425 – 8.81475	162.0125 – 167.17	3260 – 3267	23.6 – 24.0
12.29 – 12.293	167.72 – 173.2	3332 – 3339	31.2 – 31.8
12.51975–12.52025	240 – 285	3345.8 – 3358	36.43 – 36.5
12.57675–12.57725	322 – 335.4	3600 – 4400	
13.36 – 13.41			

FCC Part 15 Subpart C Paragraph 15.407(5)(b) (Unrestricted Band Emissions Limit)		
Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m (dB μ V/m)
5150 - 5250	-27	68.3
5250 - 5350	-27	68.3
5470 - 5725	-27	68.3
Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)	
5725 - 5825		

9.4. Test Procedure

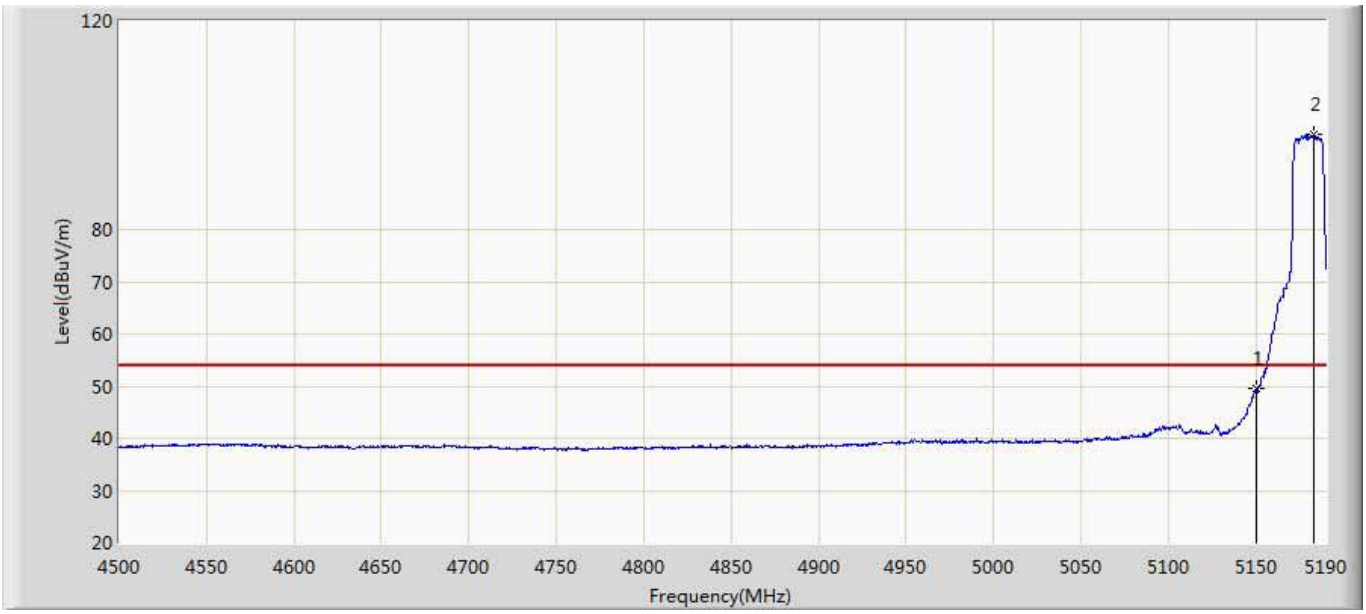
Test Method					
	References Rule			Chapter	Description
☐	ANSI C63.10			12.7.3	Emissions in non-restricted frequency bands
☒	ANSI C63.10			12.7.2	Emissions in restricted frequency bands
	☒	ANSI C63.10		12.7.5	Radiated emission measurements
	☒	ANSI C63.10		12.7.6	Procedure for peak unwanted emissions 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
☐	FCC KDB 789033 D02v01r04			G.2	Unwanted Emissions that fall Outside of the Restricted Bands
☐	FCC KDB 789033 D02v01r04			G.1	Unwanted Emissions in the Restricted Bands
	☐	FCC KDB 789033 D02v01r04		G.4	Procedure for Unwanted Emissions Measurements below 1000 MHz
	☐	FCC KDB 789033 D02v01r04		G.5	Procedure for Unwanted Maximum Emissions Measurements above 1000 MHz
	☐	FCC KDB 789033 D02v01r04		G.6	Procedures for Average Unwanted Emissions Measurements above 1000 MHz
		☐	FCC KDB 789033 D02v01r04	G.6.c	Method AD (Average detection)—primary method
		☐	FCC KDB 789033 D02v01r04	G.6.d	Method VB (Averaging using reduced video bandwidth): Alternative method.

9.5. EUT test Axis definition

<table>
<tr><td>Item</td><td colspan="4">Peak power spectral density</td></tr>
<tr><td rowspan="4">Device Category</td><td>☐</td><td colspan="3">Indoor use</td></tr>
<tr><td>☐</td><td colspan="3">Outdoor use</td></tr>
<tr><td>☐</td><td colspan="3">Fix position use</td></tr>
<tr><td>☒</td><td colspan="3">Client use</td></tr>
<tr><td>Test mode</td><td colspan="4">Mode 1-6</td></tr>
<tr><td rowspan="13">Test method</td><td>☒</td><td colspan="3">Radiated</td></tr>
<tr><td rowspan="3"></td><td>X Axis</td><td>Y Axis</td><td>Z Axis</td></tr>
<tr><td>  </td><td>  </td><td>  </td></tr>
<tr><td>Worst Axis ☐</td><td>Worst Axis ☐</td><td>Worst Axis ☒</td></tr>
<tr><td>☐</td><td colspan="3">Conducted</td></tr>
<tr><td>☐</td><td colspan="3">Chain 1</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☐</td><td>Chain 1</td><td colspan="2">Chain 2</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☐</td><td>Chain 1</td><td>Chain 2</td><td>Chain 3</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
</table>

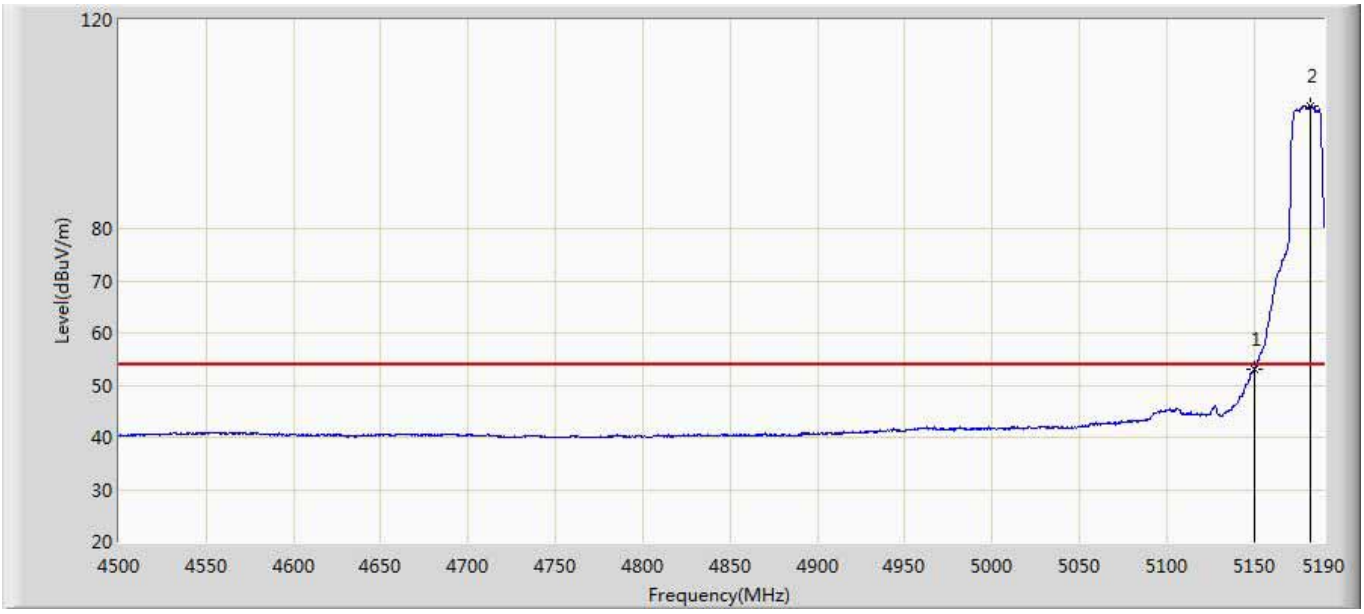
9.6. Test Result

Engineer: Eric	
Site: AC5	Time: 2017/03/21 - 20:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5180MHz by 11a	



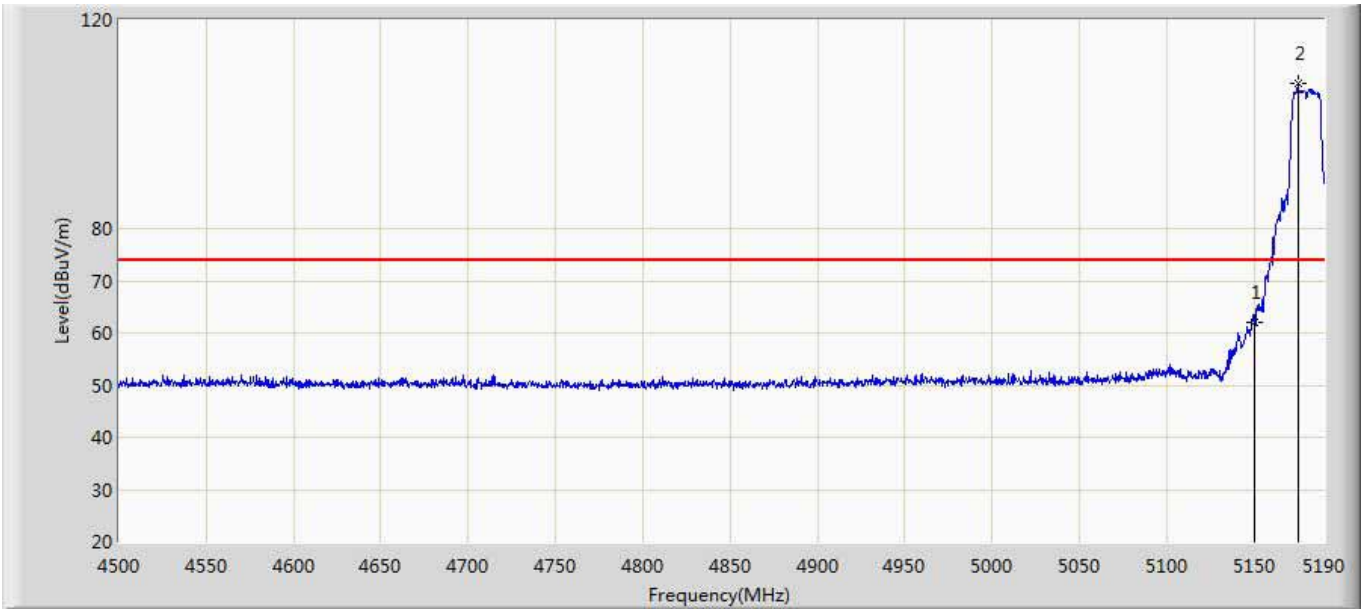
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	49.497	9.963	-4.503	54.000	39.534	AV
2	*	5183.100	98.237	58.673	44.237	54.000	39.564	AV

Engineer: Eric	
Site: AC5	Time: 2017/03/20 - 20:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5180MHz by 11a	



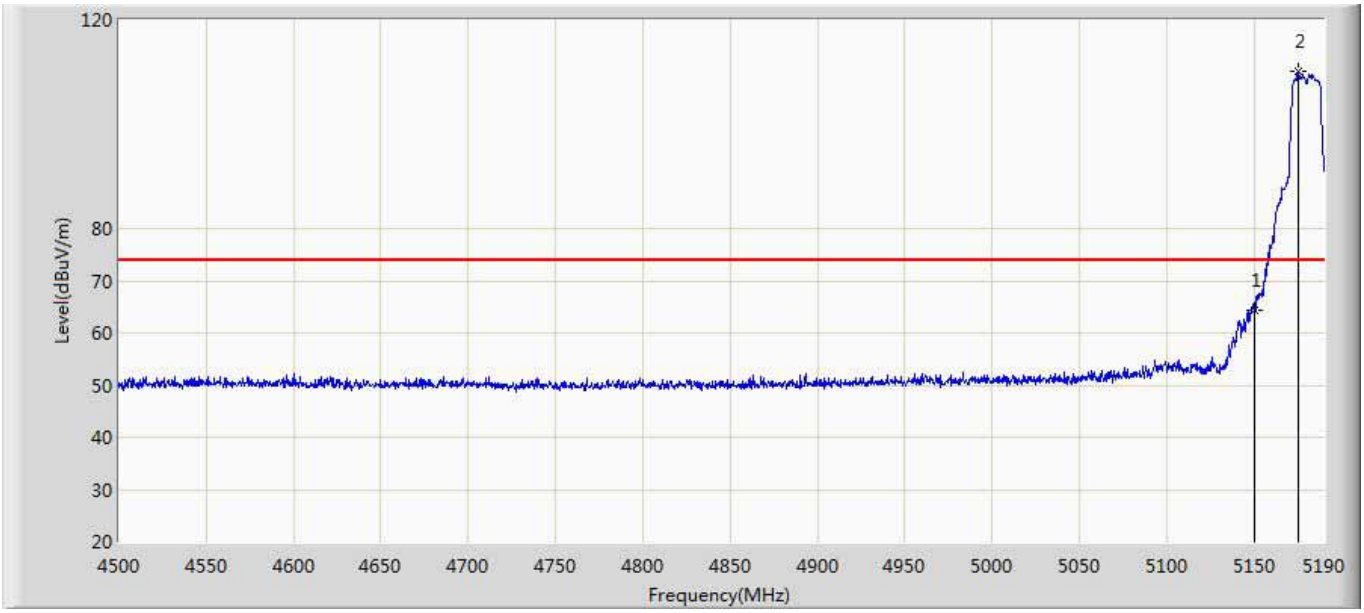
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	53.045	13.511	-0.955	54.000	39.534	AV
2	*	5182.065	103.485	63.931	49.485	54.000	39.554	AV

Engineer: Eric	
Site: AC5	Time: 2017/04/17 - 14:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5180MHz by 11a	



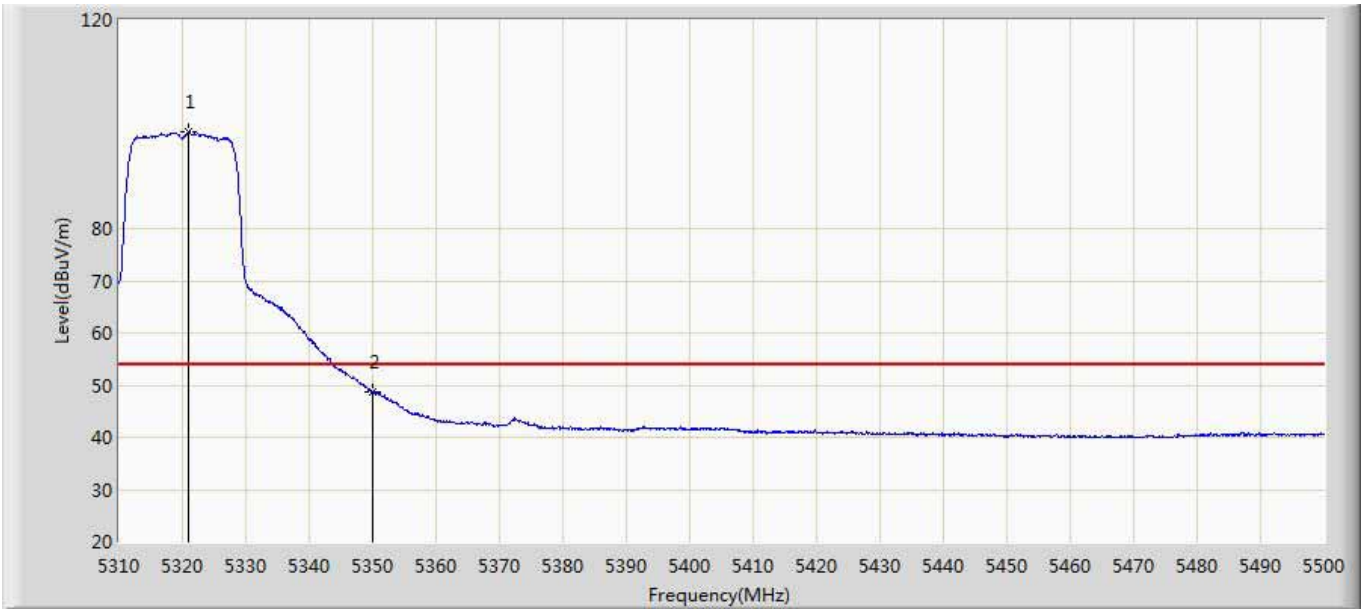
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	61.904	22.370	-12.096	74.000	39.534	PK
2	*	5175.165	107.683	68.076	33.683	74.000	39.607	PK

Engineer: Eric	
Site: AC5	Time: 2017/04/17 - 14:52
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5180MHz by 11a	



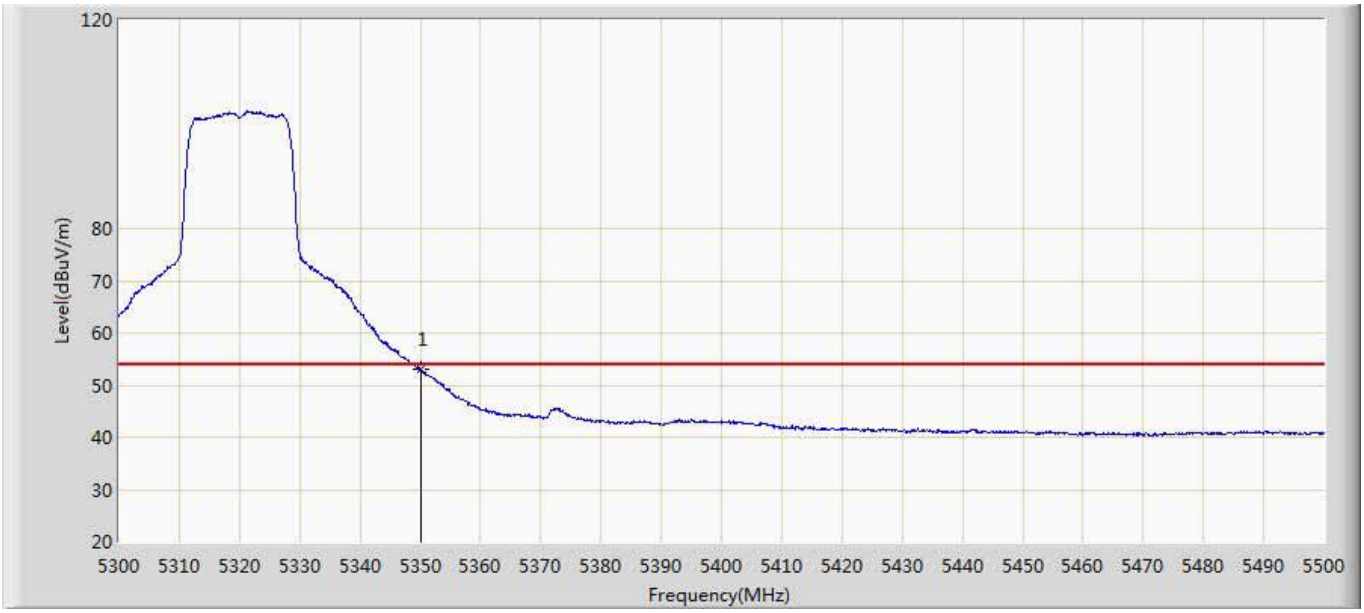
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	64.259	24.725	-9.741	74.000	39.534	PK
2	*	5175.165	110.135	70.528	36.135	74.000	39.607	PK

Engineer: Eric	
Site: AC5	Time: 2017/04/18 - 10:03
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5320MHz by 11a	



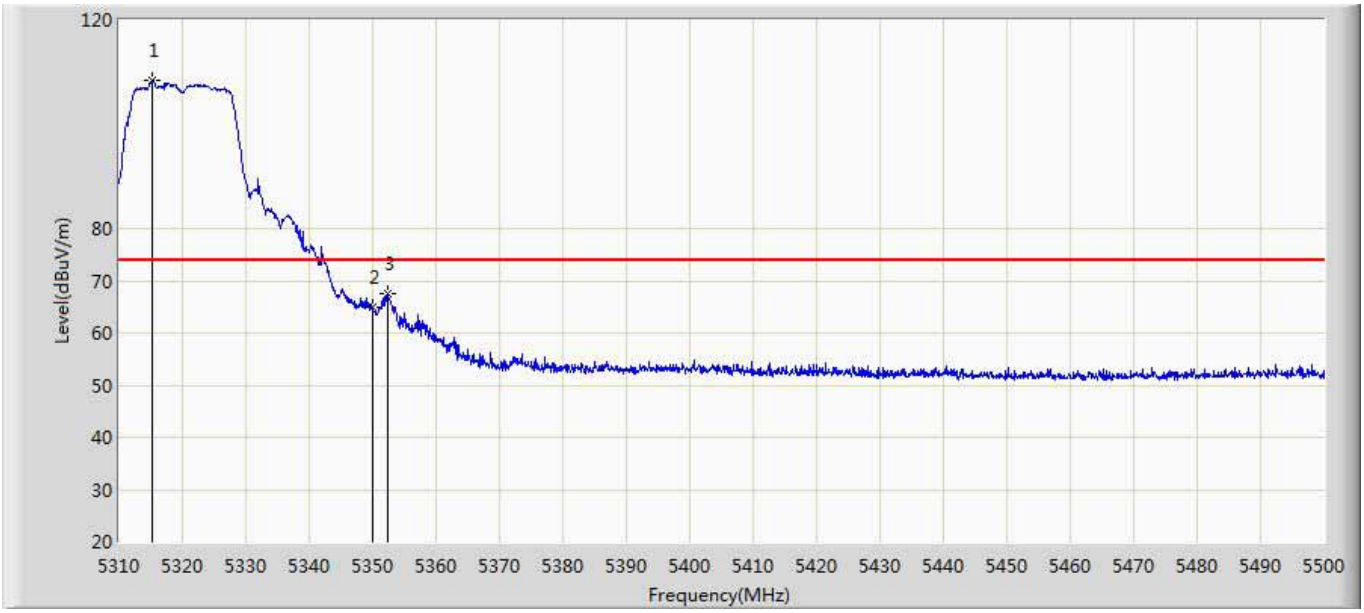
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5321.020	98.455	58.532	44.455	54.000	39.923	AV
2		5350.000	48.573	8.702	-5.427	54.000	39.871	AV

Engineer: Eric	
Site: AC5	Time: 2017/03/21 - 20:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5320MHz by 11a	



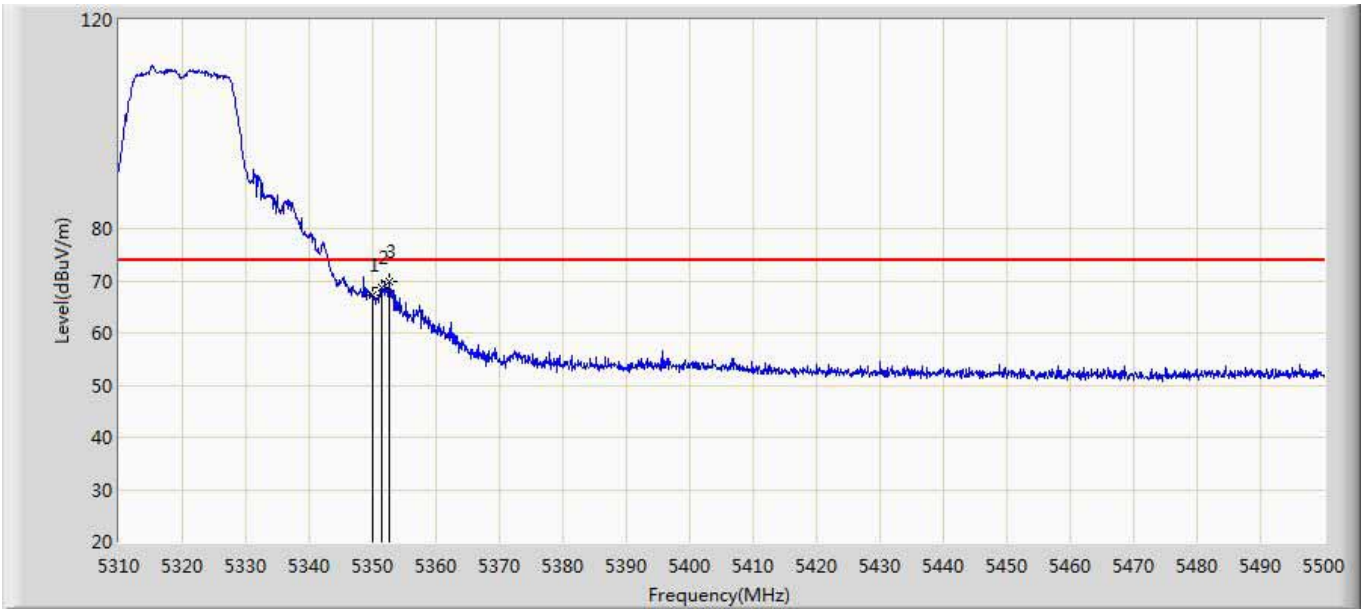
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5350.000	52.988	13.117	-0.976	54.000	39.871	AV

Engineer: Eric	
Site: AC5	Time: 2017/04/18 - 10:07
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5320MHz by 11a	



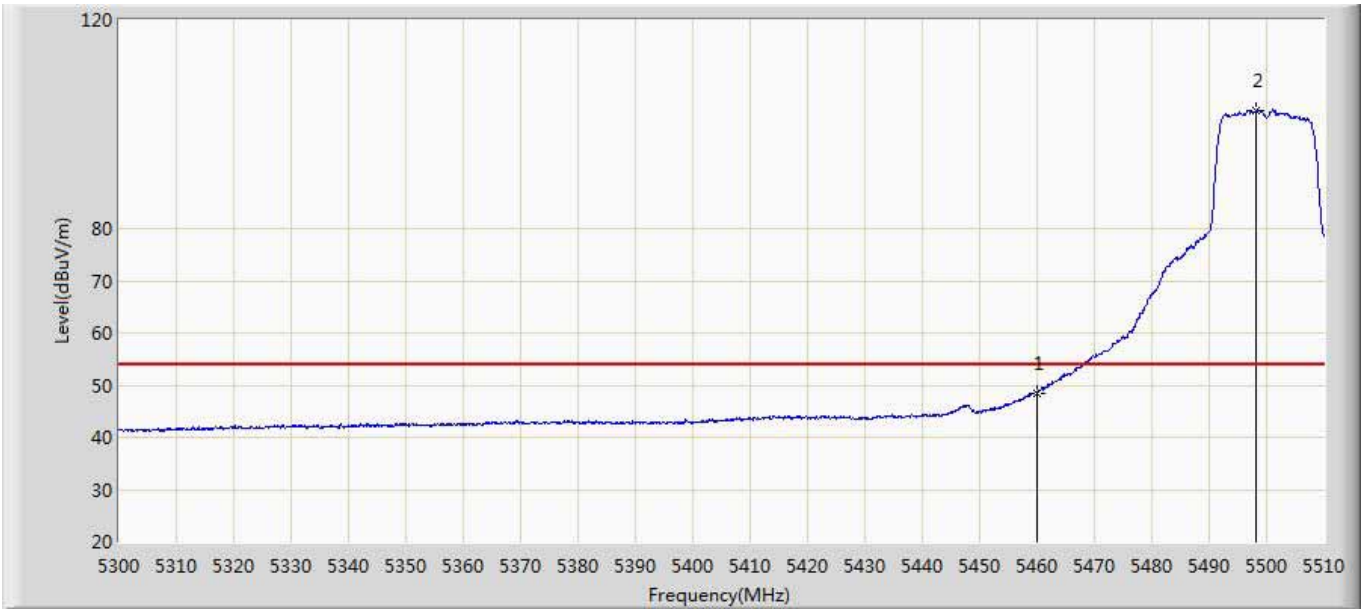
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5315.320	108.359	68.442	34.359	74.000	39.917	PK
2		5350.000	64.981	25.110	-9.019	74.000	39.871	PK
3		5352.370	67.419	27.547	-6.581	74.000	39.871	PK

Engineer: Eric	
Site: AC5	Time: 2017/04/18 - 10:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5320MHz by 11a	



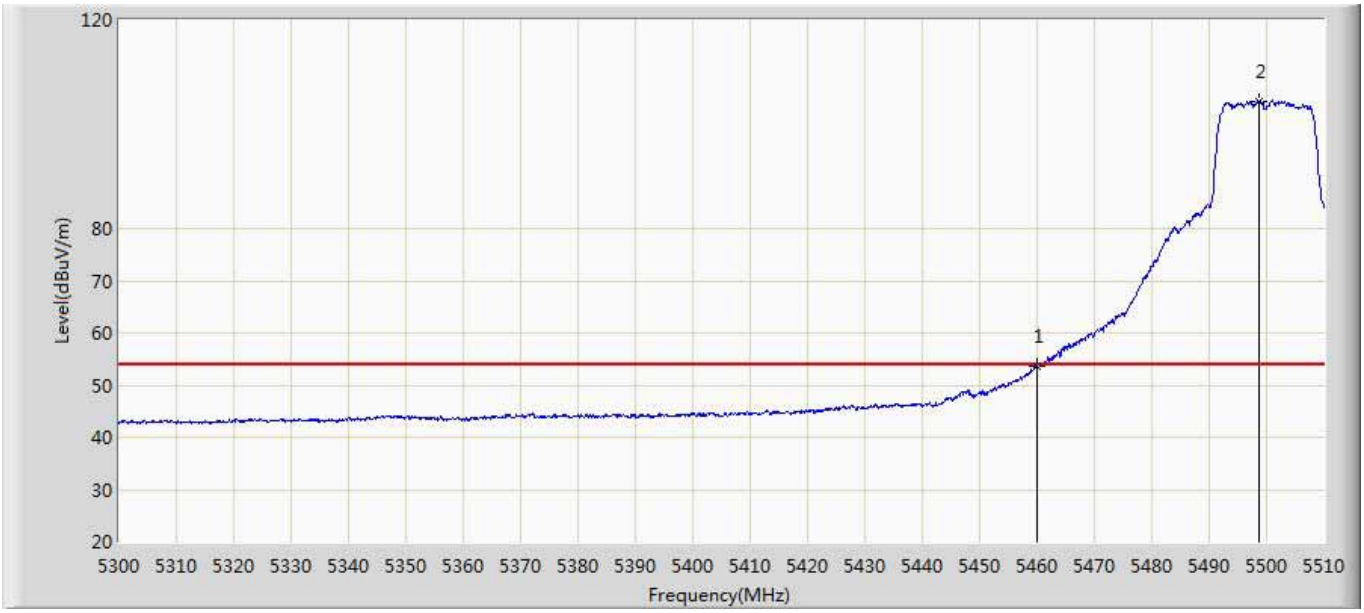
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5350.000	67.105	27.234	-6.895	74.000	39.871	PK
2		5351.515	68.701	28.830	-5.299	74.000	39.872	PK
3	*	5352.560	69.776	29.904	-4.224	74.000	39.873	PK

Engineer: Eric	
Site: AC5	Time: 2017/04/18 - 10:51
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5500MHz by 11a	



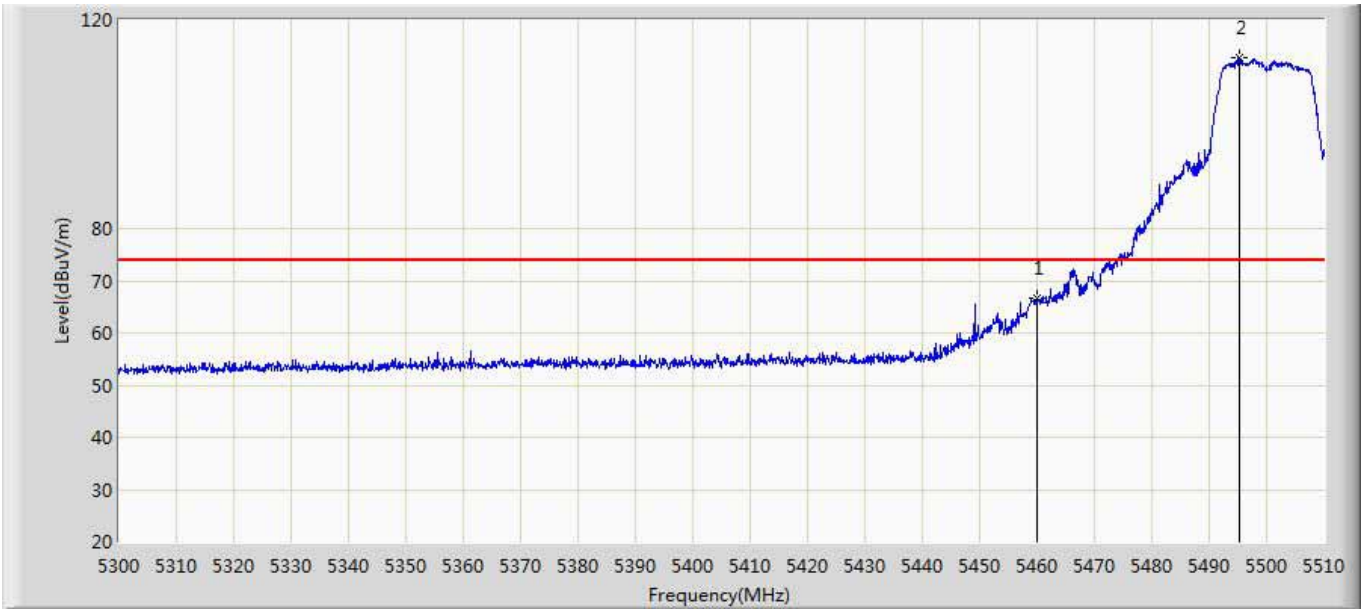
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	48.518	8.484	-5.482	54.000	40.034	AV
2	*	5498.240	102.472	62.342	48.472	54.000	40.130	AV

Engineer: Eric	
Site: AC5	Time: 2017/03/22 - 08:15
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5500MHz by 11a	



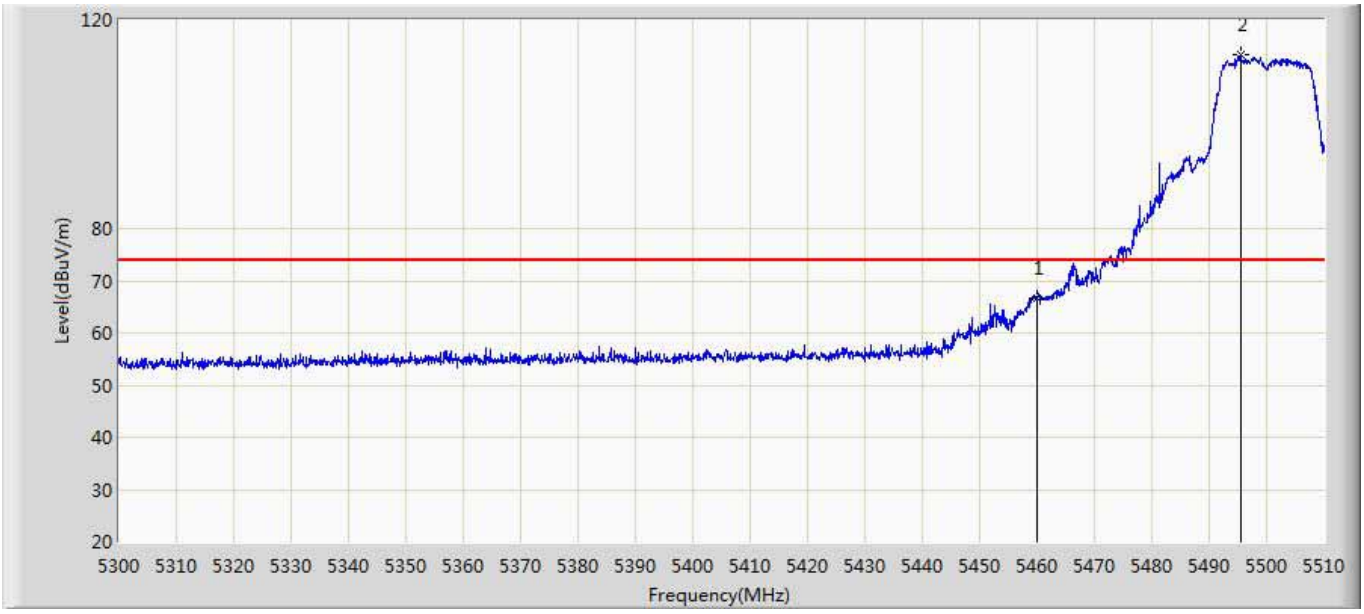
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	53.733	13.699	-0.267	54.000	40.034	AV
2	*	5498.660	104.425	64.296	50.425	54.000	40.129	AV

Engineer: Eric	
Site: AC5	Time: 2017/04/18 - 10:54
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5500MHz by 11a	



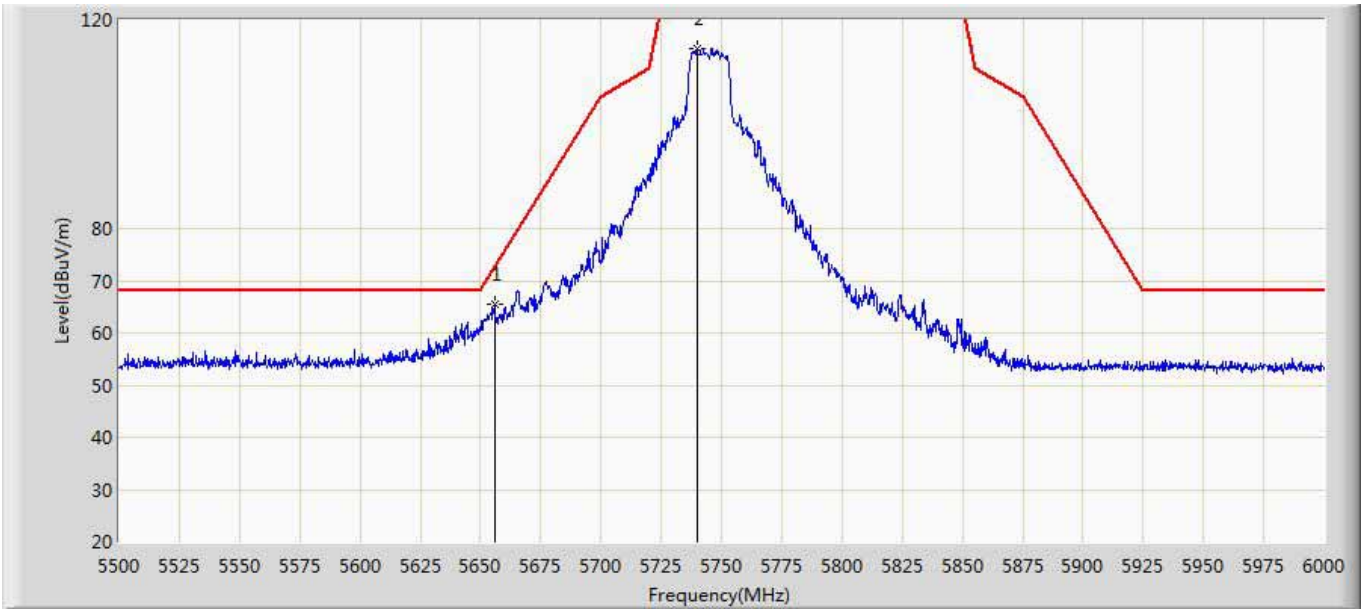
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	66.668	26.634	-7.332	74.000	40.034	PK
2	*	5495.300	112.792	72.653	38.792	74.000	40.139	PK

Engineer: Eric	
Site: AC5	Time: 2017/04/18 - 10:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5500MHz by 11a	



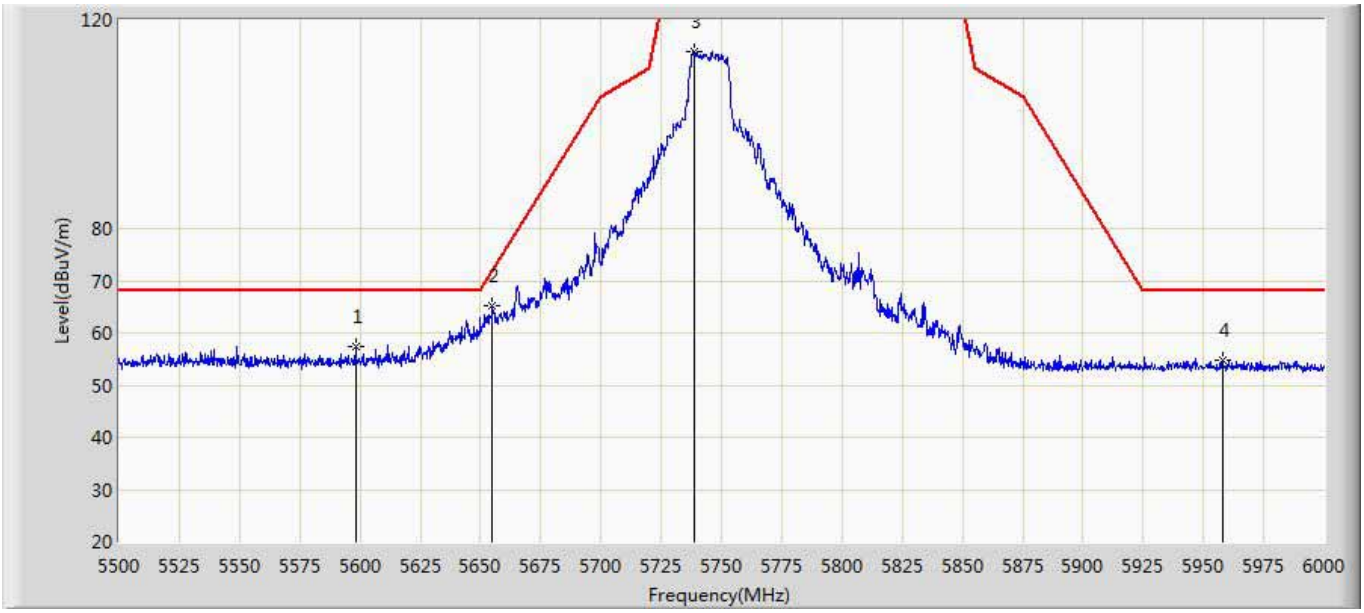
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	66.731	26.697	-7.269	74.000	40.034	PK
2	*	5495.405	113.208	73.070	39.208	74.000	40.138	PK

Engineer: Eric	
Site: AC5	Time: 2017/03/22 - 10:52
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5745MHz by 11a	



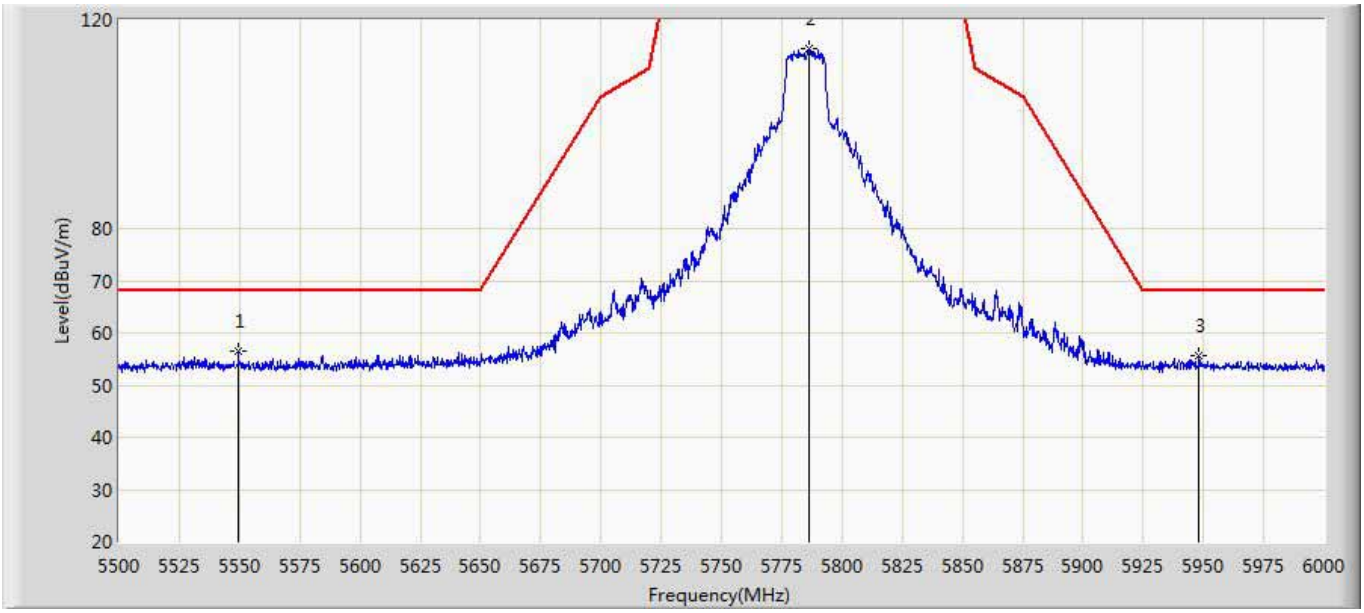
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5655.750	65.465	24.993	-6.990	72.455	40.472	PK
2		5740.000	114.390	73.821	-7.810	122.200	40.569	PK

Engineer: Eric	
Site: AC5	Time: 2017/03/22 - 10:45
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5745MHz by 11a	



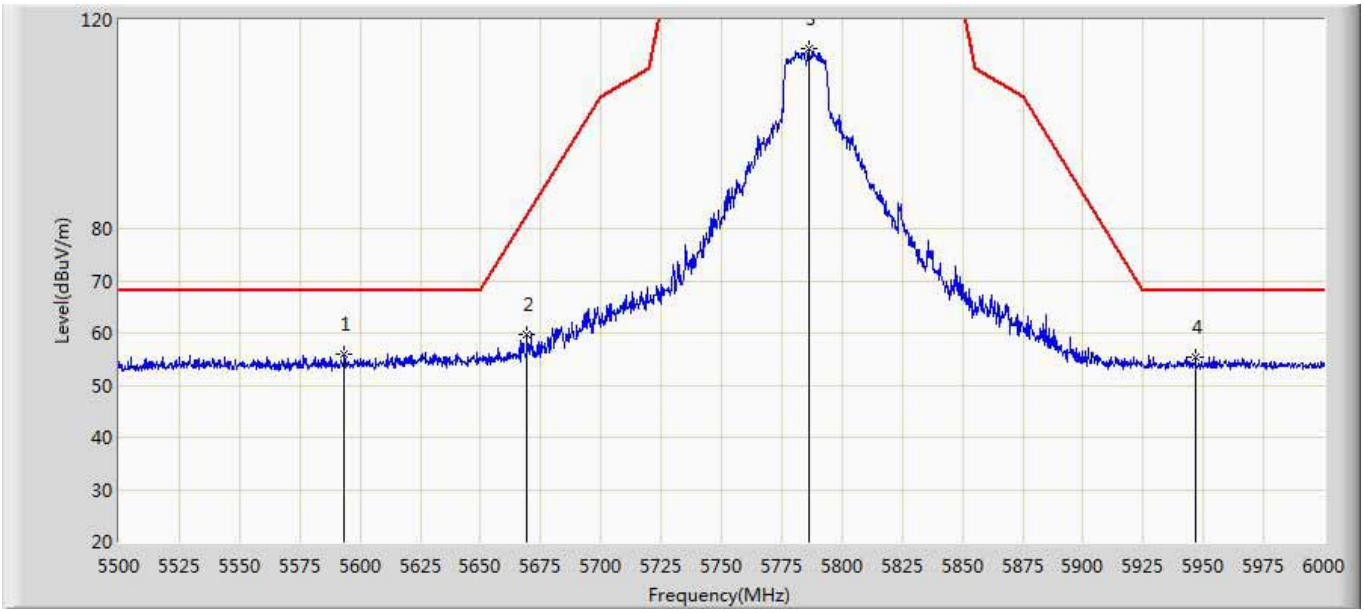
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5598.250	57.442	17.124	-10.758	68.200	40.319	PK
2	*	5655.000	65.093	24.627	-6.807	71.900	40.466	PK
3		5739.000	113.881	73.317	-8.319	122.200	40.564	PK
4		5957.750	54.870	13.848	-13.330	68.200	41.022	PK

Engineer: Eric	
Site: AC5	Time: 2017/03/22 - 10:54
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5785MHz by 11a	



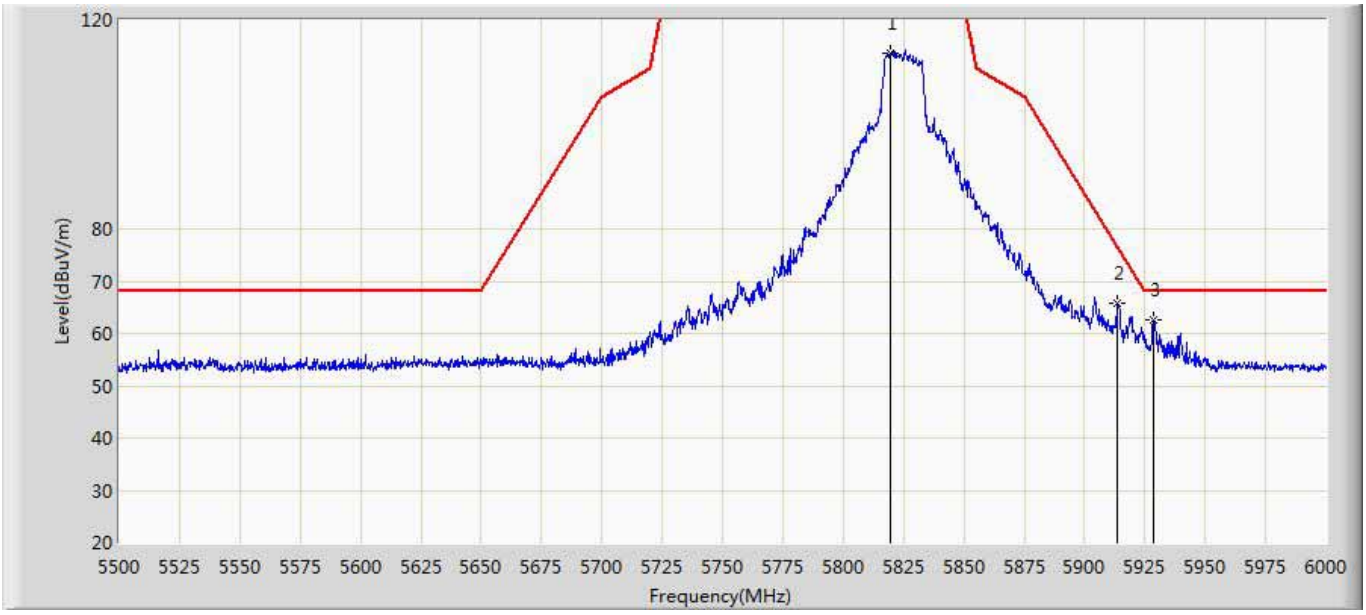
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5549.500	56.499	16.281	-11.701	68.200	40.218	PK
2	*	5786.250	114.457	73.743	-7.743	122.200	40.714	PK
3		5948.250	55.735	14.692	-12.465	68.200	41.044	PK

Engineer: Eric	
Site: AC5	Time: 2017/04/23 - 19:27
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5785MHz by 11a	



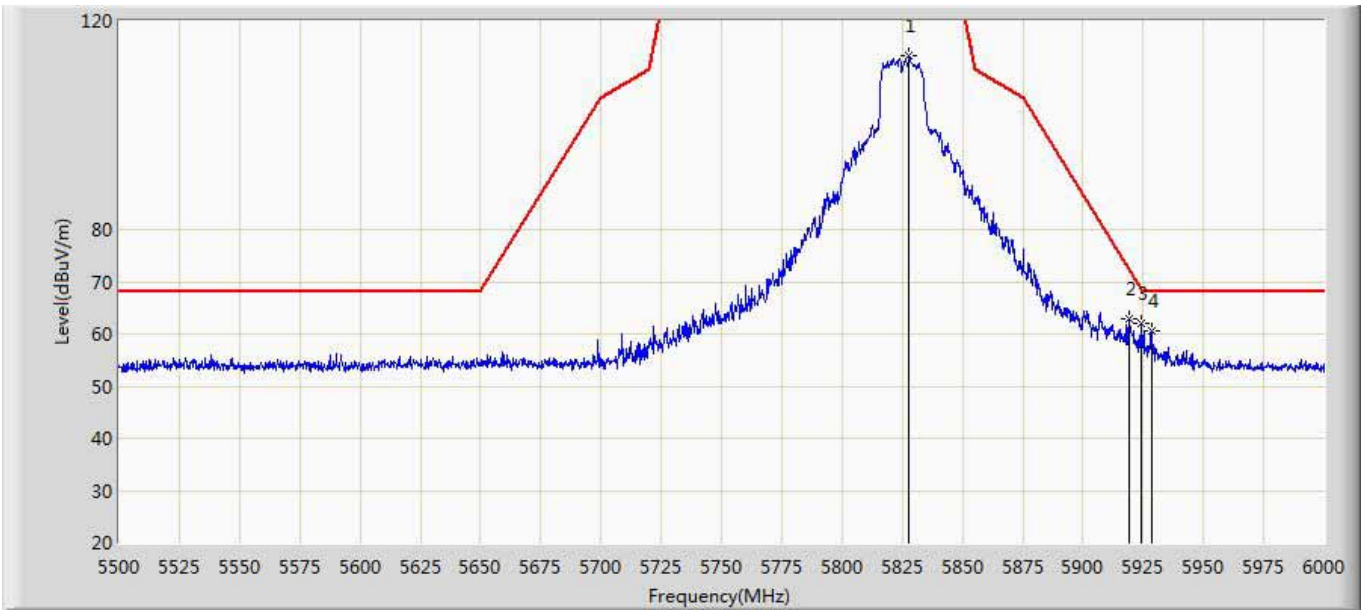
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5593.500	56.055	15.721	-12.145	68.200	40.334	PK
2		5669.250	59.604	19.110	-22.841	82.445	40.494	PK
3	*	5786.250	114.427	73.713	-7.773	122.200	40.714	PK
4		5946.750	55.386	14.342	-12.814	68.200	41.044	PK

Engineer: Eric	
Site: AC5	Time: 2017/03/22 - 10:56
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5825MHz by 11a	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5819.750	113.657	72.914	-8.543	122.200	40.743	PK
2		5913.750	65.930	24.881	-10.595	76.525	41.048	PK
3	*	5928.500	62.728	21.824	-5.472	68.200	40.904	PK

Engineer: Eric	
Site: AC5	Time: 2017/04/23 - 20:09
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Kasa Cam	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5825MHz by 11a	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5828.000	113.369	72.656	-8.831	122.200	40.713	PK
2		5919.000	62.908	21.911	-9.732	72.640	40.997	PK
3	*	5924.000	62.012	21.064	-6.928	68.940	40.948	PK
4		5928.500	60.700	19.796	-7.500	68.200	40.904	PK