

# Shenzhen Toby Technology Co., Ltd.

Report No.: TB-FCC155967

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# **FCC Radio Test Report** FCC ID: 2AEP6XM-JPF2-F4

# **Original Grant**

Report No. TB-FCC155967

HangZhou XiongMai Technology CO., LTD **Applicant** 

**Equipment Under Test (EUT)** 

**EUT Name** PANORAMIC UFO CAMERA

Model No. XM-JPF2-F4

Series Model No. XM-F5-F4, XM-F2-F4, XM-JPF5-F4, XM-F4-F2, XM-JPF4-F2

**Brand Name** XM

**Receipt Date** 2017-07-02

2017-07-03 to 2017-07-10 **Test Date** 

**Issue Date** 2017-07-11

**Standards** FCC Part 15, Subpart C (15.247:2016)

**Test Method** ANSI C63.10: 2013

**PASS Conclusions** 

In the configuration tested, the EUT complied with the standards specified above,

The EUT technically complies with the FCC and IC requirements

**Test/Witness Engineer** 

Approved&

**Authorized** 

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

TB-RF-074-1.0

Tel: +86 75526509301



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# 1. General Information about EUT

### 1.1 Client Information

**Applicant**: HangZhou XiongMai Technology CO., LTD

**Address**: 9th Floor, Building 9, Yinhu Innovation Center, No.9 FuXian Road,

YinHu Street, Hangzhou, China

Manufacturer : HangZhou XiongMai Technology CO., LTD

Address: 9th Floor, Building 9, Yinhu Innovation Center, No.9 FuXian Road,

YinHu Street, Hangzhou, China

1.2 General Description of EUT (Equipment Under Test)

EUT Name	4	PANORAMIC UFO CAM	PANORAMIC UFO CAMERA				
Models No.		XM-JPF2-F4, XM-F5-F4 XM-JPF4-F2	KM-JPF2-F4, XM-F5-F4, XM-F2-F4, XM-JPF5-F4, XM-F4-F2, KM-JPF4-F2				
Model		All these models are ide	ntical in the same PCB layout and electrical				
Difference	13	circuit, the only difference	e is market positioning.				
		Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz				
		Operation requeitcy.	802.11n(HT40): 2422MHz~2452MHz				
		Number of Channel:	802.11b/g/n(HT20):11 channels see note(3)				
		Number of Chamiler.	802.11n(HT40):9 channels see note(3)				
	Fill I	RF Output Power:	802.11b: 17.92 dBm 802.11g: 17.32 dBm				
Product			802.11n (HT20): 15.98 dBm				
Description			802.11n (HT40): 14.95 dBm				
		Antenna Gain:	3.29 dBi PCB Antenna				
		Modulation Type:	802.11b: DSSS(CCK, DQPSK, DBPSK)				
			802.11g/n:OFDM(BPSK,QPSK,16QAM,64QAM)				
		Bit Rate of Transmitter:	802.11b:11/5.5/2/1 Mbps				
			802.11g:54/48/36/24/18/12/9/6 Mbps				
THUL			802.11n:up to 150Mbps				
Power Rating	:	AC/DC Adapter:					
		Input: AC 100-240V~0.3	A 50/60Hz				
	1	Output: DC 5.0V, 2A Ma	X				
Connecting I/O Port(S)	:	Please refer to the User	's Manual				

#### Note:

- (1) This Test Report is FCC Part 15.247 for 802.11b/g/n, the test procedure follows the FCC KDB 558074 D01 DTS Meas Guidance v04.
- (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



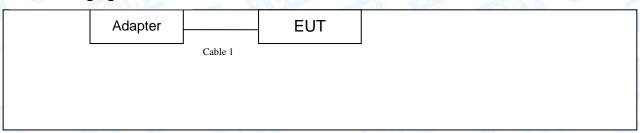
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## (3) Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	05	2432	09	2452
02	2417	06	2437	10	2457
03	2422	07	2442	11	2462
04	2427	08	2447		
Note:CH 01~CH 11	for 802.11b/g/n(HT2	0), CH 03~CH 09 for	802.11n(HT40)		

- (4) The Antenna information about the equipment is provided by the applicant.
- 1.3 Block Diagram Showing the Configuration of System Tested

## **USB Charging+TX Mode**



# 1.4 Description of Support Units

The EUT has been test as an independent unit



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# 1.5 Description of Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned follow was evaluated respectively.

For Conducted Test					
Final Test Mode Description					
Mode 1	USB Charging with TX B Mode				

For Radiated Test					
Final Test Mode	Final Test Mode Description				
Mode 2	TX Mode B Mode Channel 01/06/11				
Mode 3	TX Mode G Mode Channel 01/06/11				
Mode 4	TX Mode N(HT20) Mode Channel 01/06/11				
Mode 5	TX Mode N(HT40) Mode Channel 03/06/09				

#### Note:

(1) For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate.

According to ANSI C63.10 standards, the measurements are performed at the highest, Middle, lowest available channels, and the worst case data rate as follows:

802.11b Mode: CCK (1 Mbps) 802.11g Mode: OFDM (6 Mbps)

802.11n (HT20) Mode: MCS 0 (6.5 Mbps) 802.11n (HT40) Mode: MCS 0 (13 Mbps)

- (2) During the testing procedure, the continuously transmitting with the maximum power mode was programmed by the customer.
- (3) The EUT is considered a fixed unit; in normal use it was positioned on X-plane. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.



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# 1.6 Description of Test Software Setting

During testing channel&Power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of WLAN.

Test Software Version		N/A	
Channel	CH 01	CH 06	CH 11
IEEE 802.11b DSSS	DEF	DEF	DEF
IEEE 802.11g OFDM	DEF	DEF	DEF
IEEE 802.11n (HT20)	DEF	DEF	DEF
Channel	CH 03	CH 06	CH 09
IEEE 802.11n (HT40)	DEF	DEF	DEF

# 1.7 Measurement Uncertainty

The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

Test Item	Parameters	Expanded Uncertainty (U <sub>Lab</sub> )
	Level Accuracy:	
Conducted Emission	9kHz~150kHz	±3.42 dB
	150kHz to 30MHz	±3.42 dB
Dedicted Emission	Level Accuracy:	.4.00 dD
Radiated Emission	9kHz to 30 MHz	±4.60 dB
Dedicted Emission	Level Accuracy:	. 4. 40 dD
Radiated Emission	30MHz to 1000 MHz	±4.40 dB
Dadiated Emission	Level Accuracy:	. 4 20 dD
Radiated Emission	Above 1000MHz	±4.20 dB



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# 1.8 Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

#### **CNAS (L5813)**

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

#### FCC List No.: (811562)

The Laboratory is listed in the United States of American Federal Communications Commission (FCC), and the registration number is 811562.

## IC Registration No.: (11950A-1)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A-1.



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# 2. Test Summary

	FCC Part	t 15 Subpart C(15.247)/ RSS 247	Issue 1	
Standa	rd Section	Test Item	ludament	Remark
FCC	IC	rest item	Judgment	
15.203	1	Antenna Requirement	PASS	N/A
15.207	RSS-GEN 7.2.4	Conducted Emission	PASS	N/A
15.205	RSS-GEN 7.2.2	Restricted Bands	PASS	N/A
15.247(a)(2)	RSS 247 5.2 (1)	6dB Bandwidth	PASS	N/A
15.247(b)	RSS 247 5.4 (4)	Peak Output Power	PASS	N/A
15.247(e)	RSS 247 5.2 (2)	Power Spectral Density	PASS	N/A
15.247(d)	RSS 247 5.5	Band Edge	PASS	N/A
15.247(d)& 15.209	RSS 247 5.5	Transmitter Radiated Spurious Emission	PASS	N/A

Note: "/" for no requirement for this test item.

N/A is an abbreviation for Not Applicable.



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# 3. Test Equipment

Conducted	d Emission Te	st			
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jul. 22, 2016	Jul. 21, 2017
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jul. 22, 2016	Jul. 21, 2017
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jul. 22, 2016	Jul. 21, 2017
LISN	Rohde & Schwarz	ENV216	101131	Jul. 22, 2016	Jul. 21, 2017
Radiation	Emission Tes	t			
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 22, 2016	Jul. 21, 2017
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jul. 22, 2016	Jul. 21, 2017
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar.25, 2017	Mar. 24, 2018
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Mar.25, 2017	Mar. 24, 2018
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar.24, 2017	Mar. 23, 2018
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar.24, 2017	Mar. 23, 2018
Loop Antenna	Laplace instrument	RF300	0701	Mar.24, 2017	Mar. 23, 2018
Pre-amplifier	Sonoma	310N	185903	Mar.25, 2017	Mar. 24, 2018
Pre-amplifier	HP	8449B	3008A00849	Mar.26, 2016	Mar. 25, 2017
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar.26, 2016	Mar. 25, 2017
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A
Antenna C	onducted Em	ission			
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 22, 2016	Jul. 21, 2017
Spectrum Analyzer	Rohde & Schwarz	ESCI	100010/007	Jul. 22, 2016	Jul. 21, 2017
Power Meter	Anritsu	ML2495A	25406005	Jul. 22, 2016	Jul. 21, 2017
Power Sensor	Anritsu	ML2411B	25406005	Jul. 22, 2016	Jul. 21, 2017



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# 4. Conducted Emission Test

#### 4.1 Test Standard and Limit

4.1.1Test Standard FCC Part 15.207

#### 4.1.2 Test Limit

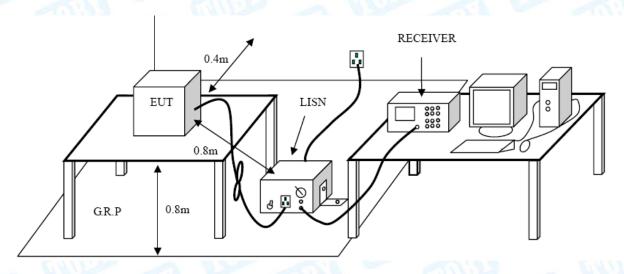
#### **Conducted Emission Test Limit**

THE PROPERTY OF THE PARTY OF TH	Maximum RF Line Voltage (dBμV)		
Frequency	Quasi-peak Level		
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *	
500kHz~5MHz	56	46	
5MHz~30MHz	60	50	

#### Notes:

- (1) \*Decreasing linearly with logarithm of the frequency.
- (2) The lower limit shall apply at the transition frequencies.
- (3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

## 4.2 Test Setup



#### 4.3 Test Procedure

The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/50uH of coupling impedance for the measuring instrument.

Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.



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I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

LISN at least 80 cm from nearest part of EUT chassis.

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

# 4.4 EUT Operating Mode

Please refer to the description of test mode.

### 4.5 Test Data

Please see the next page.



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EUT:	PANO CAME	RAMIC UFO RA	Mode	el Name :		XM-JPF2	-F4
emperature	: 25 ℃	N. W.	Rela	tive Humic	lity:	55%	
est Voltage:	AC 12	0V/60Hz	Ullin				
erminal:	Line		1	WIND.	3	~ 0	MAG
est Mode:	Charg	ing with TX B M	lode	63		38	
Remark:	Only v	vorse case is re	ported		AM		100
80.0 dBuV	<u>'</u>						
30	want of the same o			~*\	Marine Ma	QP: AVG:	) pea
0.150	0.5		(MHz)	5			30.000
No. Mk.	Freq.		orrect actor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	0.1660	28.35	9.58	37.93	65.15	-27.22	QP
2	0.1660	14.36	9.58	23.94	55.15	-31.21	AVG
3	0.5740	27.96	9.60	37.56	56.00	-18.44	QP
4 *	0.5740	22.63	9.60	32.23	46.00	-13.77	AVG
5	0.9140	16.60	9.60	26.20	56.00	-29.80	QP
6	0.9140	11.84	9.60	21.44	46.00	-24.56	AVG
7	1.1780	14.05	9.60	23.65	56.00	-32.35	QP
8	1.1780	8.51	9.60	18.11	46.00	-27.89	AVG
9	8.6140	14.21	9.96	24.17	60.00	-35.83	QP
10	8.6140	7.94	9.96	17.90	50.00	-32.10	AVG
11	25.0459		0.67	23.14	60.00	-36.86	QP
11							



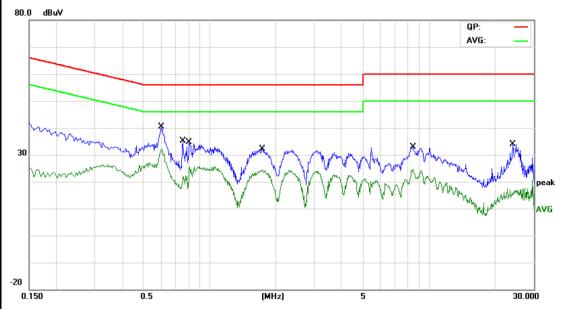
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UT:		PANOR/ CAMER	AMIC UFO A	Мо	del Name :		XM-JPF2	2-F4
Temperat	ure: 2	25 ℃		Re	lative Humid	dity:	55%	
est Volta	age: A	C 120\	V/60Hz	CHILI:		W		
Terminal:	N	Veutral			CONTRACT OF THE PARTY OF THE PA	>	~ 8	Millian
est Mod	e: C	Chargin	g with TX E	3 Mode	1	- TIV	19 .	
Remark:	C	Only wo	rse case is	reported		MAN STATE		100
80.0 dBuV								
							QP: AVG:	
X	\ <u>.</u>	X						
30	Mary Mary	une Mu	×			X		×
			Albertan Albertan	Kupinka Makaban	White when we work you	Apple of the last	and the state of t	
1,00	Marine	Vm	Mary am	(L. 400 (PV) 100 4		mma	erone of the second	ре
	1,4	~~~~	AND PANEL	Nach Andre	er har freeze fr	as Naville	- June Will	TITTINII III III V
20								
0.150		0.5		(MHz)	5			30.000
		F	Reading	Correct	Measure-			
No. M	k. Fre		Level	Factor	ment	Limit	Over	
	MH	łz	dBu∀	dB	dBuV	dBu∀	dB	Detector
1	0.18	60	27.29	9.65	36.94	64.21	-27.27	QP
2	0.18	60	11.60	9.65	21.25	54.21	-32.96	AVG
3	0.57	40	26.30	9.58	35.88	56.00	-20.12	QP
4 *	0.57	40	16.60	9.58	26.18	46.00	-19.82	AVG
5	0.87	80	14.93	9.59	24.52	56.00	-31.48	QP
6	0.87	80	6.08	9.59	15.67	46.00	-30.33	AVG
7	1.17	80	14.01	9.59	23.60	56.00	-32.40	QP
	1.17		4.18	9.59	13.77	46.00		AVG
8	1.11	80	T. 10					
8				10.26	25.50	60.00	-34.50	QP
8	8.58	20	15.24	10.26	25.50 14.77		-34.50 -35.23	QP AVG
8		20 20		10.26 10.26 10.71	25.50 14.77 23.80	50.00	-34.50 -35.23 -36.20	AVG QP



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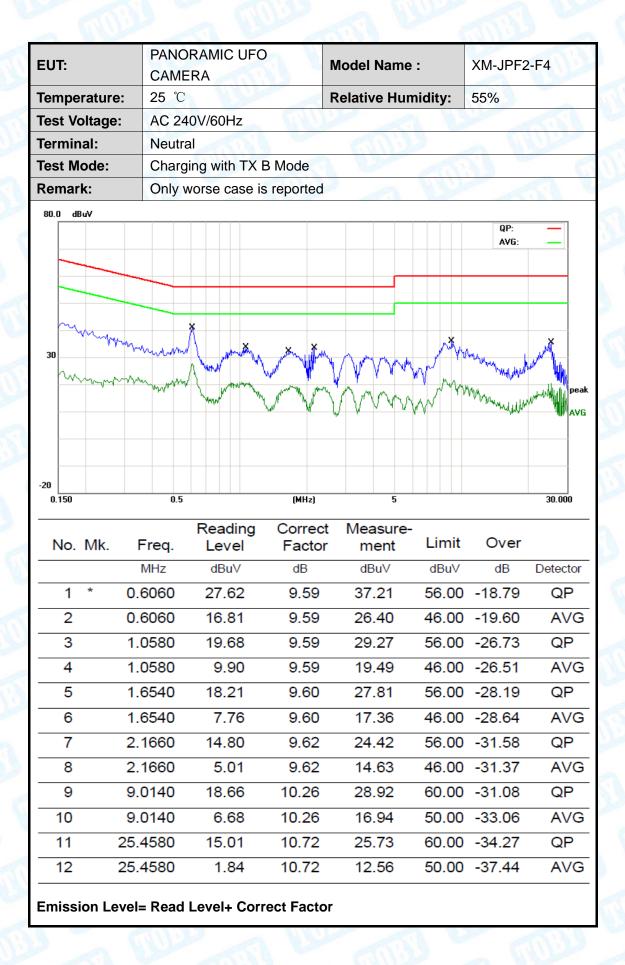
EUT:	PANORAMIC UFO CAMERA	Model Name :	XM-JPF2-F4					
Temperature:	25 ℃	Relative Humidity:	55%					
Test Voltage:	AC 240V/60Hz	AC 240V/60Hz						
Terminal:	Line	W. C.	AMIL .					
Test Mode:	Charging with TX B Mode	The same	13					
Remark:	Only worse case is reported							
80 0 dRuV								



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBu∀	dBu∨	dB	Detector
1		0.6020	27.38	9.61	36.99	56.00	-19.01	QP
2	*	0.6020	22.13	9.61	31.74	46.00	-14.26	AVG
3		0.7539	12.67	9.61	22.28	56.00	-33.72	QP
4		0.7539	7.47	9.61	17.08	46.00	-28.92	AVG
5		0.8059	14.19	9.61	23.80	56.00	-32.20	QP
6		0.8059	9.24	9.61	18.85	46.00	-27.15	AVG
7		1.7420	18.82	9.61	28.43	56.00	-27.57	QP
8		1.7420	14.05	9.61	23.66	46.00	-22.34	AVG
9		8.4220	19.07	9.95	29.02	60.00	-30.98	QP
10		8.4220	12.91	9.95	22.86	50.00	-27.14	AVG
11		24.0700	12.74	10.64	23.38	60.00	-36.62	QP
12		24.0700	2.98	10.64	13.62	50.00	-36.38	AVG



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# 5. Radiated Emission Test

## 5.1 Test Standard and Limit

5.1.1 Test Standard FCC Part 15.209

5.1.2 Test Limit

### Radiated Emission Limits (9 kHz~1000 MHz)

Frequency (MHz	Field Strength (microvolt/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

## Radiated Emission Limit (Above 1000MHz)

Frequency	Distance of 3m (dBuV/m)		
(MHz)	Peak	Average	
Above 1000	74	54	

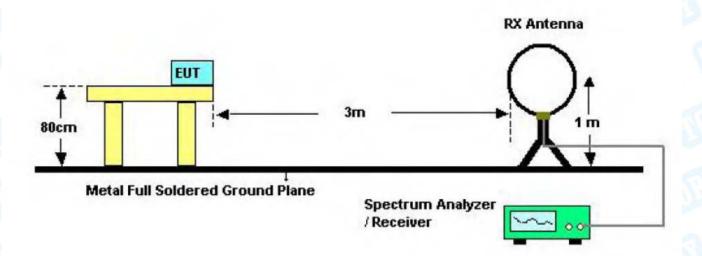
#### Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level(dBuV/m)=20log Emission Level(uV/m)

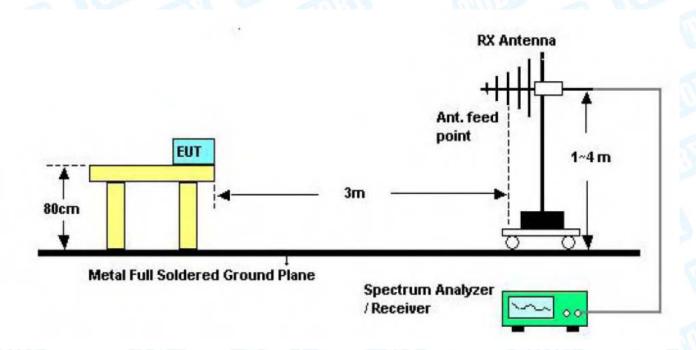


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# 5.2 Test Setup



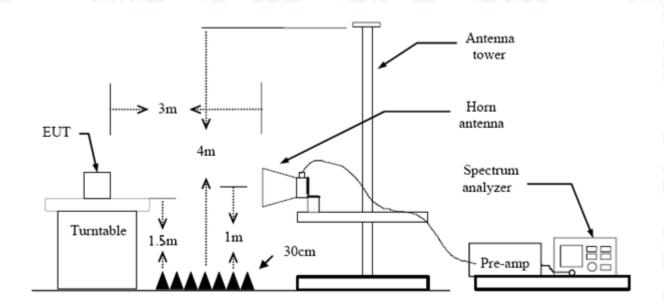
Below 30MHz Test Setup



Below 1000MHz Test Setup



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Above 1GHz Test Setup

#### 5.3 Test Procedure

- (1) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (2) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (3) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (4) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (5) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (6) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (7) For the actual test configuration, please see the test setup photo.

# 5.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.



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## 5.5 Test Data

Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.

Test data please refer the following pages.



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### 9KHz~30MHz

From 9KHz to 30MHz: Conclusion: PASS

Note: The amplitude of spurious emissions which are attenuated by more than 20dB

below the permissible value has no need to be reported.

### 30MHz~1GHz

EUT:	PANORAMIC CAMERA	UFO	Model:		XM-JPF2	?-F4
Temperature:	25 ℃	- TOTAL	Relative Hui	midity:	55%	
Test Voltage:	AC 120/60Hz	J. Maria		Valent Control	Call's	13
Ant. Pol.	Horizontal	9	MILLER		167	
Test Mode:	TX B Mode 24	112MHz		M.D.		dista
Remark:	Only worse ca	ase is reported				
80.0 dBuV/m						
-20 30,000 40 5	3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4 ************************************	5 6 × ×	Market Property No.	Margin -6	dB
				100		
No. Mk. F	Readi req. Leve	•	Measure- ment	Limit	Over	
ı	MHz dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1 30.	0000 38.0	2 -13.78	24.24	40.00	-15.76	peak
2 43.	8119 44.6	5 -21.49	23.16	40.00	-16.84	peak
3 * 56.	0007 52.59	9 -24.14	28.45	40.00	-11.55	peak
4 128	.1128 43.82	2 -21.80	22.02	43.50	-21.48	peak
5 243	.3771 46.00	6 -17.73	28.33	46.00	-17.67	peak
6 297	.2241 44.74	4 -16.34	28.40	46.00	-17.60	peak
*:Maximum data	x:Over limit !:ove	er margin				

<sup>\*:</sup>Maximum data x:Over limit !:over margin



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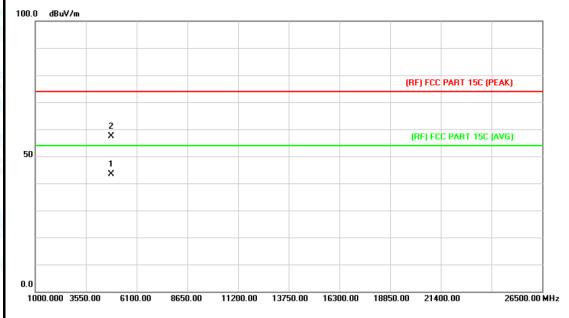
EUT:	CAMER	AMIC UFO	Model:		XM-JPF2-F	4
Temperature:	25 ℃	MARINE	Relative Humidity:		55%	
Test Voltage:	AC 120	/60Hz	W.	a W		THE STATE OF
Ant. Pol.	Vertical				~ W	Mr.
Test Mode:	TX B M	ode 2412MHz			33	
Remark:	Only wo	orse case is repo	orted	430		10
80.0 dBuV/m						
30× ×	3	1 5 6 X X X X X X X X X X X X X X X X X X			C 15C 3M Radiation Margin -6	
-20 30.000 40 50	60 70 80	) (M	Hz) 30	144 - 444 - 440	500 600 700	1000.00
30.000 40 50	R	Reading Corr	Hz) 30	0 400		
30.000 40 50 No. Mk. F	R		rect Measure	0 400	500 600 700 Over	1000.00
No. Mk. F	Freq.	Reading Corr Level Fac	rect Measure stor ment	0 400 - Limit	500 600 700  Over  m dB	1000.00
No. Mk. F	Freq. MHz 1052	Reading Corr Level Fac	rect Measure ment dBuV/m 85 30.79	0 400 - Limit dBuV/r	Over dB -9.21	Detector peak
No. Mk. F	Treq.  MHz  1052  2757	Reading Corr Level Fac dBuV dB// 44.64 -13.	rect Measure ment dBuV/m 85 30.79 01 29.14	0 400 - Limit dBuV/r 40.00	Over m dB 0 -9.21 0 -10.86	Detector peak
No. Mk. F  1 * 30. 2 40. 3 81.	Treq.  MHz  1052  2757  4968	Reading Corr Level Fac dBuV dB// 44.64 -13. 49.15 -20.	rect Measure ment dBuV/m 85 30.79 01 29.14 84 28.52	0 400 - Limit dBuV/r 40.00	Over  m dB  0 -9.21  0 -10.86  0 -11.48	Detector peak peak
No. Mk. F  1 * 30. 2 40. 3 81. 4 92.	Treq.  MHz  1052  2757  4968  7870	Reading Corr Level Fac dBuV dB// 44.64 -13. 49.15 -20. 51.36 -22.	Hz) 30  rect Measure ment  dBuV/m  85 30.79  01 29.14  84 28.52  04 33.77	Dimit dBuV/r 40.00 40.00 40.00	Over  m dB 0 -9.21 0 -10.86 0 -9.73	Detector peak



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## **Above 1GHz**

EUT:	PANORAMIC UFO CAMERA	Model:	XM-JPF2-F4			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120/60Hz					
Ant. Pol.	Horizontal		THE PARTY OF THE P			
Test Mode:	TX B Mode 2412MHz		BY T			
Remark:	No report for the emission which more than 10 dB below the prescribed					
	limit.					

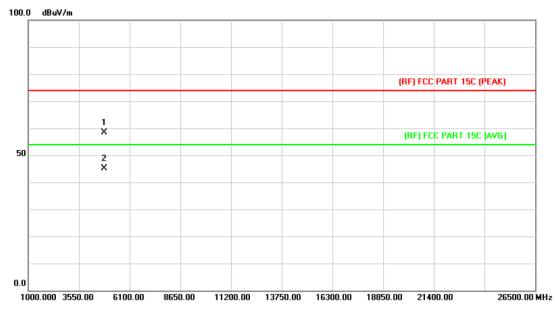


No	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4824.090	29.72	13.56	43.28	54.00	-10.72	AVG
2		4824.165	43.80	13.56	57.36	74.00	-16.64	peak



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EUT:	PANORAMIC UFO CAMERA	Model:	XM-JPF2-F4			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120/60Hz					
Ant. Pol.	Vertical		A THURSDAY			
Test Mode:	TX B Mode 2412MHz		13 - 6			
Remark:	No report for the emission which more than 10 dB below the prescribed limit.					

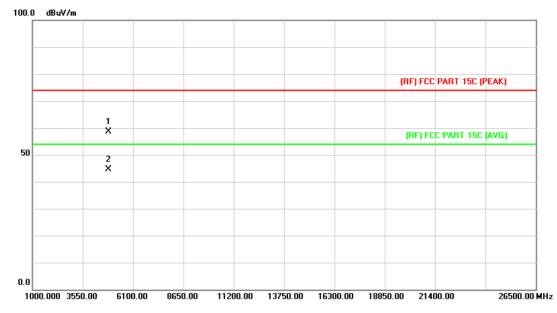


No	o. Mk	. Freq.			Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.895	44.78	13.56	58.34	74.00	-15.66	peak
2	*	4823.988	31.61	13.56	45.17	54.00	-8.83	AVG



Page: 25 of 91

EUT:	PANORAMIC UFO CAMERA	Model:	XM-JPF2-F4			
Temperature:	25 °C Relative Humidity: 55%					
Test Voltage:	AC 120/60Hz					
Ant. Pol.	Horizontal	W. Carlon	A THURSDAY			
Test Mode:	TX B Mode 2437MHz	1	19.3			
Remark:	No report for the emission which more than 10 dB below the prescribed limit.					

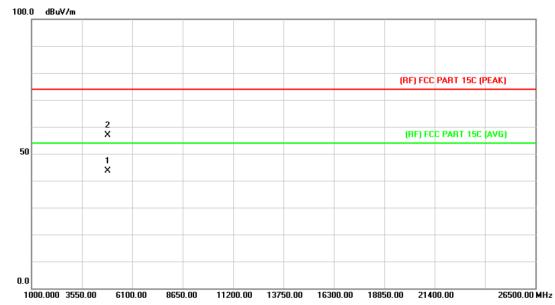


No.	. Mk	. Freq.	_		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.451	44.77	13.86	58.63	74.00	-15.37	peak
2	*	4873.988	30.82	13.86	44.68	54.00	-9.32	AVG



Page: 26 of 91

EUT:	PANORAMIC UFO CAMERA	Model:	XM-JPF2-F4				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120/60Hz						
Ant. Pol.	Vertical		THE PARTY OF				
Test Mode:	TX B Mode 2437MHz	7 0					
Remark:	No report for the emission which more than 10 dB below the prescribed limit.						

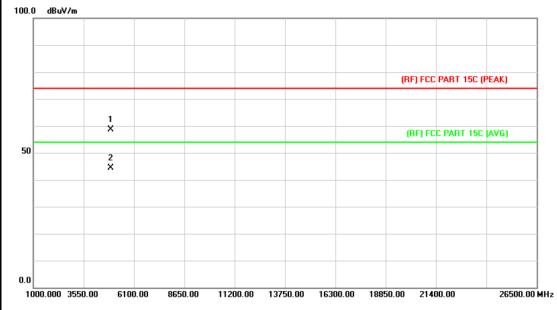


No	Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4873.949	29.73	13.86	43.59	54.00	-10.41	AVG
2		4874.135	43.13	13.86	56.99	74.00	-17.01	peak



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EUT:	PANORAMIC UFO	Model:	XM-JPF2-F4		
Temperature:	CAMERA  25 °C  Relative Humidity:		55%		
Test Voltage:	AC 120/60Hz				
Ant. Pol.	Horizontal		A MILLIAN		
Test Mode:	TX B Mode 2462MHz	3	33		
Remark: No report for the emission which more than 10 dB below the prescribed limit.					



No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.553	44.53	14.15	58.68	74.00	-15.32	peak
2	*	4924.429	30.13	14.15	44.28	54.00	-9.72	AVG



Page: 28 of 91

EUT:	PANORAMIC UFO CAMERA	Model:	XM-JPF2-F4			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120/60Hz					
Ant. Pol.	Vertical		THE PARTY OF THE P			
Test Mode:	TX B Mode 2462MHz	7 0				
Remark:	No report for the emission which more than 10 dB below the prescribed limit.					
	- ····					

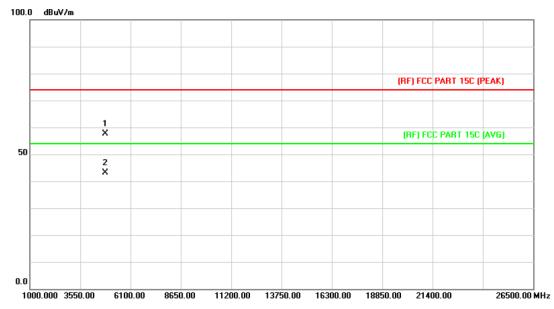


N	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.193	44.42	14.15	58.57	74.00	-15.43	peak
2	*	4925.083	30.12	14.16	44.28	54.00	-9.72	AVG



Page: 29 of 91

EUT:	PANORAMIC UFO CAMERA	Model:					
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120/60Hz						
Ant. Pol.	Horizontal		July 1				
Test Mode:	TX G Mode 2412MHz	100	13.3				
Remark:	No report for the emission which more than 10 dB below the prescribed limit.						



No	. Mk	Freq.	Reading Level		Measure- ment	Limit	Over	,
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.712	44.19	13.56	57.75	74.00	-16.25	peak
2	*	4824.069	29.54	13.56	43.10	54.00	-10.90	AVG



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EUT:	PANORAMIC UFO CAMERA	Model:	XM-JPF2-F4				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120/60Hz						
Ant. Pol.	Vertical		A LIVE				
Test Mode:	TX G Mode 2412MHz		33 - 6				
Remark:	No report for the emission which more than 10 dB below the prescribed limit.						

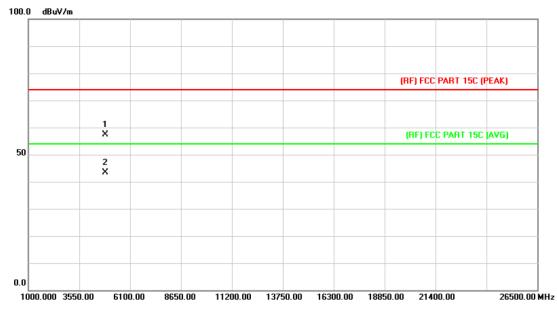


No.	Mk.	Freq.	_		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4824.111	43.33	13.56	56.89	74.00	-17.11	peak
2	*	4824.645	29.12	13.56	42.68	54.00	-11.32	AVG



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EUT:	PANORAMIC UFO CAMERA	Model:	XM-JPF2-F4				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120/60Hz						
Ant. Pol.	Horizontal	W. College	A THURSDAY				
Test Mode:	TX G Mode 2437MHz	10	33 - 6				
Remark:	No report for the emission which more than 10 dB below the prescribed limit.						



No	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4874.258	43.62	13.86	57.48	74.00	-16.52	peak
2	*	4874.870	29.44	13.86	43.30	54.00	-10.70	AVG



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EUT:	PANORAMIC UFO CAMERA	Model:	XM-JPF2-F4		
Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	AC 120/60Hz				
Ant. Pol.	Vertical	W. 1979	A THURSDAY		
Test Mode:	TX G Mode 2437MHz	1	:43		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.				

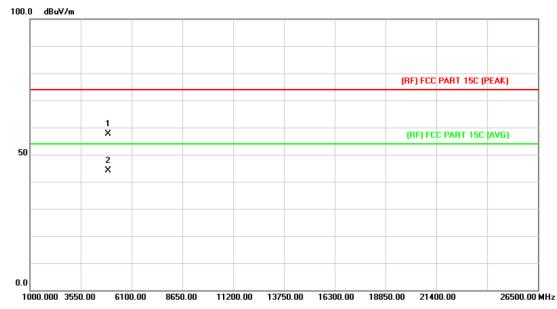


No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4874.075	42.55	13.86	56.41	74.00	-17.59	peak
2	*	4874.687	29.57	13.86	43.43	54.00	-10.57	AVG



Page: 33 of 91

EUT:	PANORAMIC UFO CAMERA	Model:	XM-JPF2-F4		
Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	AC 120/60Hz				
Ant. Pol.	Horizontal				
Test Mode:	TX G Mode 2462MHz				
Remark: No report for the emission which more than 10 dB below the prescribed limit.					

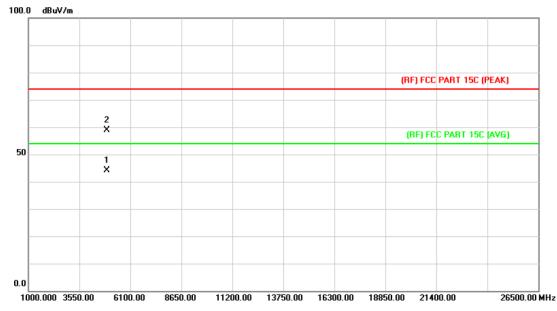


N	lo.	Mk.	Freq.	_		Measure- ment	Limit	Over	
			MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1			4923.874	43.43	14.15	57.58	74.00	-16.42	peak
2		*	4924.408	29.93	14.15	44.08	54.00	-9.92	AVG



Page: 34 of 91

EUT:	PANORAMIC UFO CAMERA	Model:	XM-JPF2-F4			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120/60Hz					
Ant. Pol.	Vertical					
Test Mode:	TX G Mode 2462MHz	1	33			
Remark: No report for the emission which more than 10 dB below the prescribed limit.						



No	o. Mł	k. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4924.348	29.92	14.15	44.07	54.00	-9.93	AVG
2		4924.939	44.76	14.15	58.91	74.00	-15.09	peak



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EUT:	PANORAMIC UFO CAMERA	Model:	XM-JPF2-F4
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		100
Ant. Pol.	Horizontal	W. Carlotte	THE PARTY OF THE P
Test Mode:	TX N(HT20) Mode 2412M	Hz	
Remark: No report for the emission which more than 10 dB below the prescribed limit.			



N	o. Mk	c. Freq.			Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4824.372	43.57	13.56	57.13	74.00	-16.87	peak
2	*	4824.468	28.98	13.56	42.54	54.00	-11.46	AVG



Page: 36 of 91

EUT:	PANORAMIC UFO CAMERA	Model:	XM-JPF2-F4	
Temperature:	25 ℃	Relative Humidity:	55%	
Test Voltage:	AC 120/60Hz	The same of the		
Ant. Pol.	Vertical	W. Carlotte	A THURSDAY	
Test Mode:	TX N(HT20) Mode 2412M	Hz		
Remark: No report for the emission which more than 10 dB below the prescribed limit.				

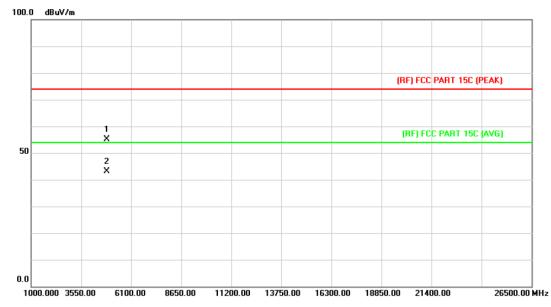


No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.904	42.12	13.56	55.68	74.00	-18.32	peak
2	*	4824.546	29.11	13.56	42.67	54.00	-11.33	AVG



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EUT:	PANORAMIC UFO CAMERA	Model:	XM-JPF2-F4			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120/60Hz					
Ant. Pol.	Horizontal					
Test Mode:	TX N(HT20) Mode 2437M	Hz				
Remark: No report for the emission which more than 10 dB below the prescribed limit.						

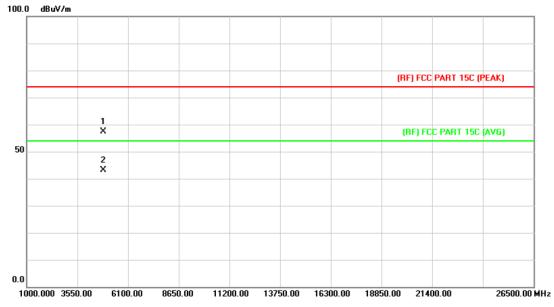


No	o. Mk	. Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.961	41.27	13.86	55.13	74.00	-18.87	peak
2	*	4874.393	29.32	13.86	43.18	54.00	-10.82	AVG



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EUT:	PANORAMIC UFO CAMERA	Model:	XM-JPF2-F4			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120/60Hz					
Ant. Pol.	Vertical	W. 1977	AND .			
Test Mode:	TX N(HT20) Mode 2437M	Hz	133			
Remark: No report for the emission which more than 10 dB below the prescribed limit.						

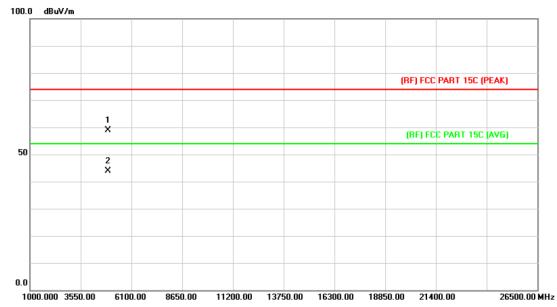


No.	. Mk	Freq.	_		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.592	43.52	13.86	57.38	74.00	-16.62	peak
2	*	4874.500	29.27	13.86	43.13	54.00	-10.87	AVG



Page: 39 of 91

EUT:	PANORAMIC UFO CAMERA	Model:	XM-JPF2-F4			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120/60Hz					
Ant. Pol.	Horizontal		A CHILL			
Test Mode:	TX N(HT20) Mode 2462MH	z	13			
Remark: No report for the emission which more than 10 dB below the prescribed limit.						

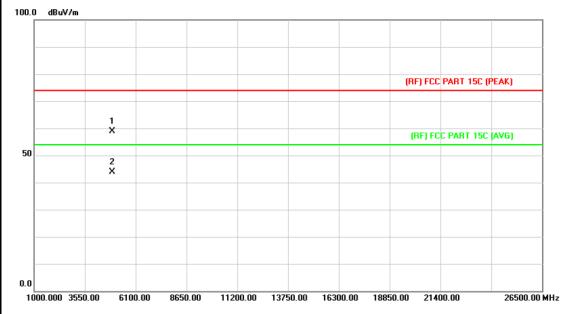


No.	Mk.	Freq.	_		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4924.066	44.76	14.15	58.91	74.00	-15.09	peak
2	*	4924.070	29.78	14.15	43.93	54.00	-10.07	AVG



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EUT:	PANORAMIC UFO CAMERA	Model:	XM-JPF2-F4			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120/60Hz					
Ant. Pol.	Vertical		A CHURCH			
Test Mode:	TX N(HT20) Mode 2462MH	z				
Remark: No report for the emission which more than 10 dB below the prescribed limit.						

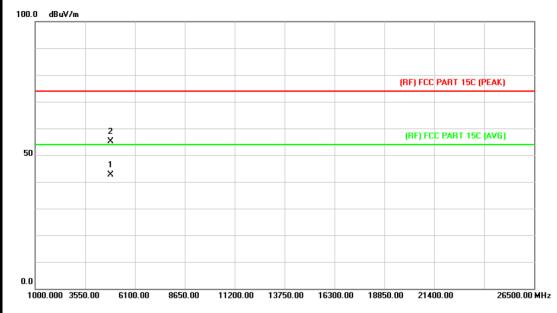


No	o. Mk	. Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4924.176	44.63	14.15	58.78	74.00	-15.22	peak
2	*	4924.357	29.79	14.15	43.94	54.00	-10.06	AVG



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EUT:	PANORAMIC UFO CAMERA	Model:	XM-JPF2-F4			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120/60Hz					
Ant. Pol.	Horizontal	COURSE OF THE PROPERTY OF THE	LINE TO SERVICE			
Test Mode:	TX N(HT40) Mode 2422M	Hz				
Remark: No report for the emission which more than 10 dB below the prescribed limit.						

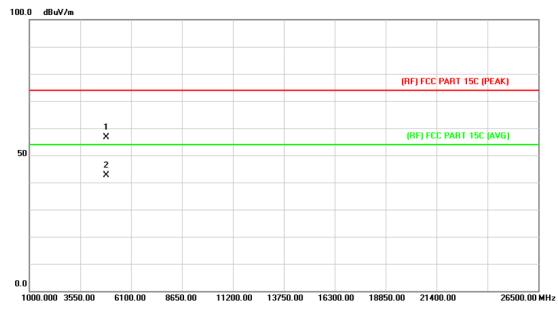


N	lo.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
			MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	•	*	4843.885	28.89	13.68	42.57	54.00	-11.43	AVG
2			4844.027	41.50	13.68	55.18	74.00	-18.82	peak



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EUT:	PANORAMIC UFO CAMERA	Model:	XM-JPF2-F4			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120/60Hz					
Ant. Pol.	Vertical	W. 1977	J. T. D.			
Test Mode:	TX N(HT40) Mode 2422MH	z	13 - 6			
Remark:	No report for the emission which more than 10 dB below the prescribed limit.					

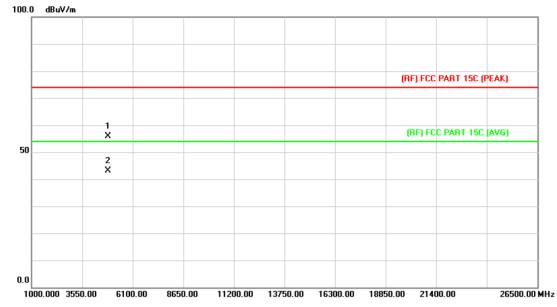


N	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4843.885	42.85	13.68	56.53	74.00	-17.47	peak
2	*	4844.255	28.88	13.68	42.56	54.00	-11.44	AVG



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EUT:	PANORAMIC UFO CAMERA	Model:	XM-JPF2-F4			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120/60Hz					
Ant. Pol.	Horizontal					
Test Mode:	TX N(HT40) Mode 2437M	Hz				
Remark: No report for the emission which more than 10 dB below the prescribed limit.						



No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.974	42.13	13.86	55.99	74.00	-18.01	peak
2	*	4874.046	29.16	13.86	43.02	54.00	-10.98	AVG



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EUT:	PANORAMIC UFO CAMERA	Model:	XM-JPF2-F4				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120/60Hz						
Ant. Pol.	Vertical	W. Carlon	A THURSDAY				
Test Mode:	TX N(HT40) Mode 2437M	Hz	33 - 6				
Remark: No report for the emission which more than 10 dB below the prescribed limit.							

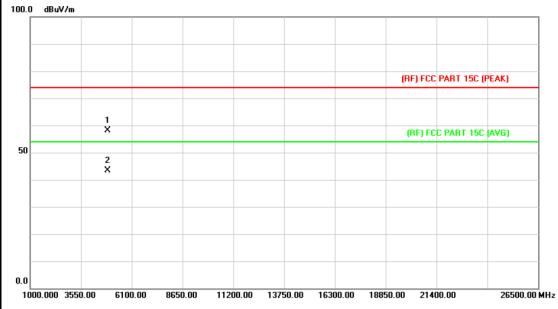


No	. Mk	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4874.009	29.21	13.86	43.07	54.00	-10.93	AVG
2		4874.096	43.98	13.86	57.84	74.00	-16.16	peak



Page: 45 of 91

EUT:	PANORAMIC UFO CAMERA	Model:	XM-JPF2-F4				
Temperature:	ature: 25 °C Relative Hui		55%				
Test Voltage:	AC 120/60Hz						
Ant. Pol.	Horizontal		THE PARTY OF THE P				
Test Mode:	TX N(HT40) Mode 2452M	Hz	143				
Remark: No report for the emission which more than 10 dB below the prescribed limit.							

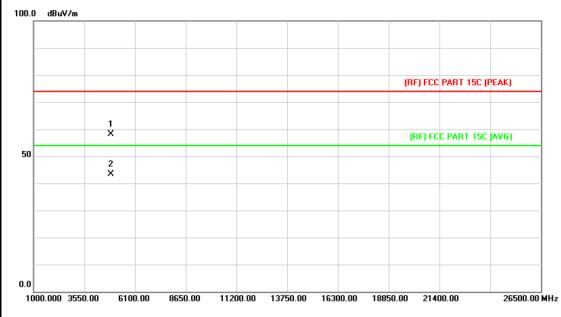


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4903.853	44.07	14.03	58.10	74.00	-15.90	peak
2	*	4903.958	29.28	14.03	43.31	54.00	-10.69	AVG



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EUT:	PANORAMIC UFO CAMERA	Model:	XM-JPF2-F4				
Temperature:	25 ℃	Relative Humidity: 55%					
Test Voltage:	AC 120/60Hz						
Ant. Pol.	Vertical		THE PARTY OF THE P				
Test Mode:	TX N(HT40) Mode 2452M	Hz	143				
Remark: No report for the emission which more than 10 dB below the prescribed limit.							



1	No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
			MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1			4903.766	44.07	14.03	58.10	74.00	-15.90	peak
2		*	4903.928	29.31	14.03	43.34	54.00	-10.66	AVG



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# 6. Restricted Bands Requirement

### 6.1 Test Standard and Limit

6.1.1 Test Standard

FCC Part 15.247(d)

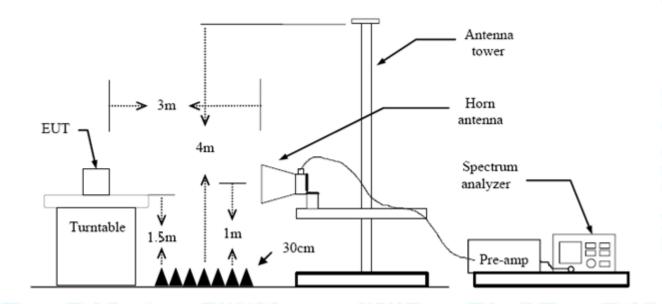
FCC Part 15.209

FCC Part 15.205

6.1.2 Test Limit

Restricted Frequency	Distance of 3m (dBuV/m)				
Band (MHz)	Peak	Average			
2310 ~2390	74	54			
2483.5 ~2500	74	54			

## 6.2 Test Setup



### 6.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.



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(3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.

- (4) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.

## 6.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

### 6.5 Test Data

Please see the next page.



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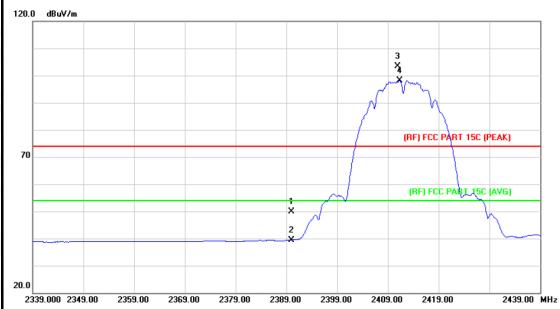
# (1) Radiation Test

EUT:				ORAMIC UF IERA	0	Model:		XM-JPF2-F4			
Гет	peratu	ıre:	25 °C	C	MILL	Relative H	umidity:	55%			
Test	t Volta	ge:	AC 1	20/60Hz	1		3				
۹nt.	Pol.		Horiz	zontal	-	Care .		1777			
Test	Mode	:	TX B	Mode 2412	MHz		AMILE	THE PARTY OF THE P			
Ren	nark:		N/A								
120.0	dBuV/m	1									
						N	(RF) FCC P	ART 15C (PEAK	]		
70					1 ×		(RF) FCC	PART 15C AVG	)		
			7.		2	/			~~		
20.0											
	39.000 23 O. Mk		959.00 -q.	Reading Level	Correct Factor	Measure- ment	Limit	Over	439.00 MH		
		MH:	Z	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detecto		
1		2390.0	000	53.53	0.77	54.30	74.00	-19.70	peak		
2		2390.0	000	42.48	0.77	43.25	54.00	-10.75	AVG		
	*	2412.8	300	105.24	0.86	106.10	Fundamental	Frequency	AVG		
3									peak		



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EUT:	PANORAMIC UFO CAMERA	Model:	XM-JPF2-F4
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz	THE RESERVENCE	
Ant. Pol.	Vertical		July 1
Test Mode:	TX B Mode 2412MHz	1	
Remark:	N/A		

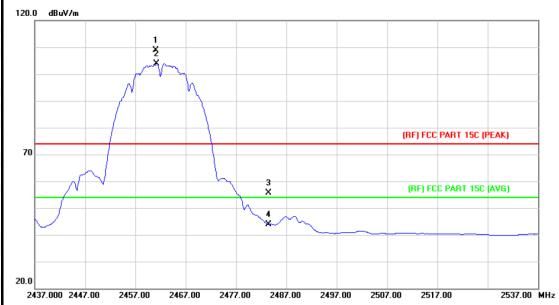


No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	49.20	0.77	49.97	74.00	-24.03	peak
2		2390.000	38.66	0.77	39.43	54.00	-14.57	AVG
3	X	2410.900	102.60	0.86	103.46	Fundamental	Frequency	peak
4	*	2411.300	97.38	0.86	98.24	Fundamental	Frequency	AVG



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EUT:	PANORAMIC UFO CAMERA	Model:	XM-JPF2-F4
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Horizontal		J. Chillian
Test Mode:	TX B Mode 2462MHz		
Remark:	N/A		

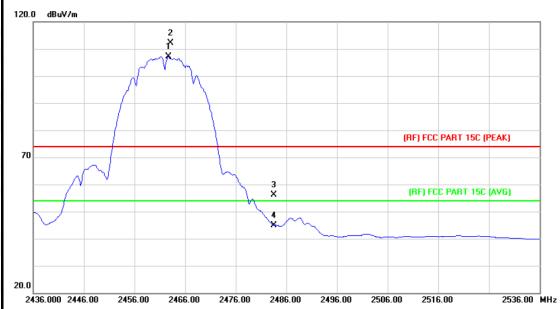


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	Χ	2461.000	107.88	1.06	108.94	Fundamental Frequency		peak
2	*	2461.200	102.82	1.07	103.89	 Fundamental	Frequency	AVG
3		2483.500	54.46	1.17	55.63	74.00	-18.37	peak
4		2483.500	42.69	1.17	43.86	54.00	-10.14	AVG



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EUT:	PANORAMIC UFO CAMERA	Model:	XM-JPF2-F4
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz	The same of	
Ant. Pol.	Vertical		A THURSDAY
Test Mode:	TX B Mode 2462MHz	3	33
Remark:	N/A		The second second
120.0 dBuV/m			

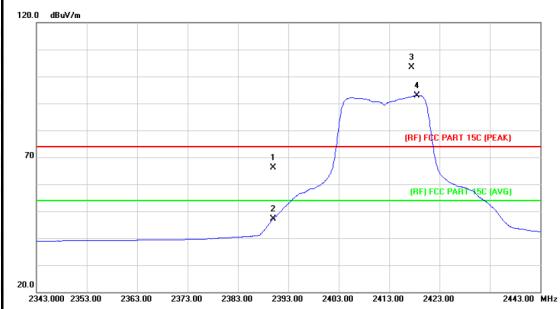


No	o. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2462.700	106.06	1.08	107.14	Fundamental	Frequency	AVG
2	X	2463.100	111.13	1.08	112.21	Fundamental	Frequency	peak
3		2483.500	54.91	1.17	56.08	74.00	-17.92	peak
4		2483.500	43.81	1.17	44.98	54.00	-9.02	AVG



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EUT:	PANORAMIC UFO CAMERA	Model:	XM-JPF2-F4
Temperature:	<b>25</b> ℃	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		100
Ant. Pol.	Horizontal	W. 1977	THE PARTY OF
Test Mode:	TX G Mode 2412MHz	1	
Remark:	N/A		



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	65.37	0.77	66.14	74.00	-7.86	peak
2		2390.000	46.38	0.77	47.15	54.00	-6.85	AVG
3	Χ	2417.400	102.38	0.89	103.27	Fundamental I	Frequency	peak
4	*	2418.500	92.09	0.89	92.98	Fundamental I	Frequency	AVG



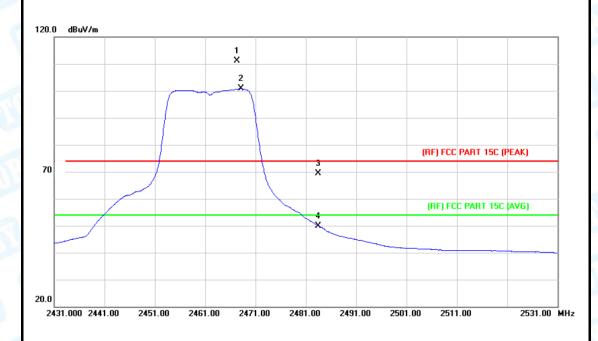
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EUT:				ORAMIC ERA	UFO	) N	М	odel:			XM-JPF	2-F4	
Tem	peratui	e:	25 °C	<b>25</b> ℃			R	elativ	e Humidit	ty:	55%		
Test	Voltag	e:	AC 1	20/60Hz	Z	ON.	عليزا						١
Ant.	Pol.		Verti	cal	18.0	1					2 M		
Test	Mode:		TX G	Mode 2	2412MI	Hz	3	630		STA	3		(
Rem	ark:		N/A			111			a W	No.		M	
120.0	dBuV/m												
									3 				
								1	(RF	) FCC PA	ART 15C (PEA	K)	
70						1 X	ر	1	(R	F) FCC I	PART 15C (AV	G)	
20.0													
234	43.000 235	3.00 2	2363.00	2373.00	2383.00	2393	3.00	2403.00	2413.00	2423.0	10	2443.00	MHz
N	o. Mk.	Fr	eq.	Readi Leve		Correct Facto		easui ment		it	Over		
		MI	Hz	dBu∖	/	dB/m		dBuV/r	m dBu	V/m	dB	Detec	tor
1		2390	.000	67.4	6	0.77		68.23	3 74.	.00	-5.77	pea	k
2		2390	.000	47.4	5	0.77		48.22	2 54.	.00	-5.78	AV	G
3	*	2418	.400	98.0	3	0.89		98.92	2 Funda	mental	Frequency	AV	G
4	Χ	2418	.900	108.2	20	0.89		109.0	9 Funda	mental	Frequency	pea	ık



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EUT:	PANORAMIC UFO CAMERA	Model:	XM-JPF2-F4
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Horizontal		a Guille
Test Mode:	TX G Mode 2462MHz		
Remark:	N/A		

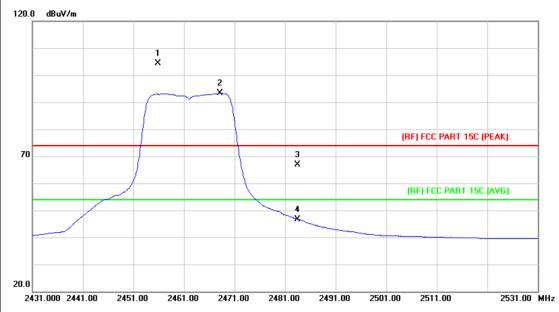


No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2467.300	110.09	1.10	111.19	Fundamental Frequency		peak
2	*	2468.100	99.67	1.11	100.78	Fundamental F	requency	AVG
3		2483.500	68.31	1.17	69.48	74.00	-4.52	peak
4		2483.500	48.75	1.17	49.92	54.00	-4.08	AVG



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EUT:	PANORAMIC UFO CAMERA	Model:	XM-JPF2-F4			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120/60Hz	AC 120/60Hz				
Ant. Pol.	Vertical	WILLIAM STATE	J. Chillian			
Test Mode:	TX G Mode 2462MHz		13 - 6			
Remark:	N/A					

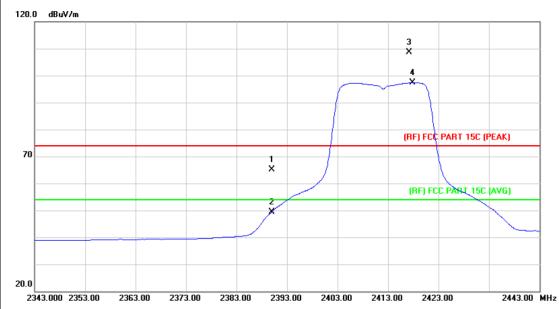


N	o. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2455.900	103.24	1.05	104.29	Fundamenta	l Frequency	peak
2	*	2468.200	92.30	1.11	93.41	Fundamenta	l Frequency	AVG
3		2483.500	65.63	1.17	66.80	74.00	-7.20	peak
4		2483.500	45.56	1.17	46.73	54.00	-7.27	AVG



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EUT:	PANORAMIC UFO CAMERA	Model:	XM-JPF2-F4			
Temperature:	25 ℃	Relative Humidity: 55%				
Test Voltage:	AC 120/60Hz					
Ant. Pol.	Horizontal		J. D. D.			
Test Mode:	TX N(HT20) Mode 2412MH	z	13 - 6			
Remark:	N/A					

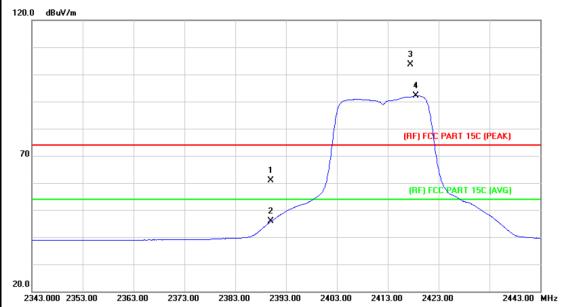


No	. Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	64.31	0.77	65.08	74.00	-8.92	peak
2		2390.000	48.71	0.77	49.48	54.00	-4.52	AVG
3	Χ	2417.200	107.69	0.88	108.57	Fundamental	Frequency	peak
4	*	2417.800	96.56	0.89	97.45	Fundamental	Frequency	AVG



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EUT:	PANORAMIC UFO CAMERA	Model:					
Temperature:	25 °C Relative Humidity:		55%				
Test Voltage:	AC 120/60Hz						
Ant. Pol.	Vertical		A PULL				
Test Mode:	TX N(HT20) Mode 2412N	1Hz	33				
Remark:	N/A						
120.0 dBuV/m							

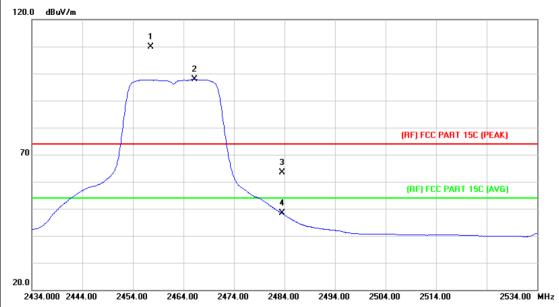


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	60.07	0.77	60.84	74.00	-13.16	peak
2		2390.000	45.05	0.77	45.82	54.00	-8.18	AVG
3	X	2417.500	102.65	0.89	103.54	 Fundamental	Frequency	peak
4	*	2418.500	91.22	0.89	92.11	Fundamental	Frequency	AVG



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EUT:	PANORAMIC UFO CAMERA	Model:	XM-JPF2-F4			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120/60Hz					
Ant. Pol.	Horizontal		J. T. D.			
Test Mode:	TX N(HT20) Mode 2462MHz					
Remark: N/A						

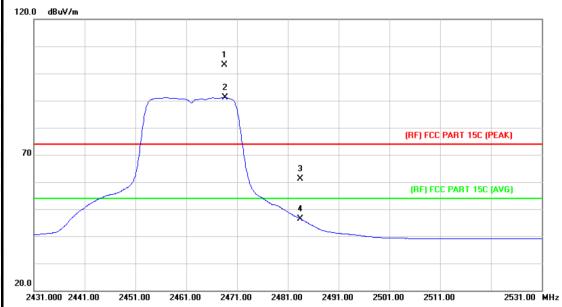


N	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	,	X	2457.600	108.93	1.05	109.98	Fundamental F	requency	peak
2	,	*	2466.200	96.80	1.09	97.89	Fundamental	Frequency	AVG
3			2483.500	62.29	1.17	63.46	74.00	-10.54	peak
4			2483.500	47.12	1.17	48.29	54.00	-5.71	AVG



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EUT:	PANORAMIC UFO CAMERA	Model:	XM-JPF2-F4			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120/60Hz					
Ant. Pol.	Vertical					
Test Mode:	TX N(HT20) Mode 2462MHz					
Remark:	emark: N/A					

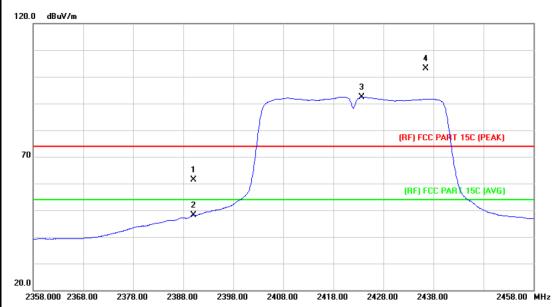


No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	Χ	2468.500	101.95	1.11	103.06	Fundamental	Frequency	peak
2	*	2468.700	90.00	1.11	91.11	- Fundamental	Frequency	AVG
3		2483.500	60.05	1.17	61.22	74.00	-12.78	peak
4		2483.500	45.26	1.17	46.43	54.00	-7.57	AVG



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EUT:	PANORAMIC UFO CAMERA	Model:	XM-JPF2-F4			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120/60Hz					
Ant. Pol.	Horizontal	WILLIAM STATE	A CHILL			
Test Mode:	TX N(HT40) Mode 2452MHz					
Remark:	N/A					

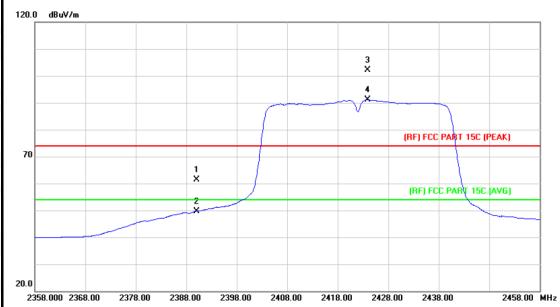


No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	60.56	0.77	61.33	74.00	-12.67	peak
2		2390.000	47.29	0.77	48.06	54.00	-5.94	AVG
3	*	2423.700	91.51	0.91	92.42	Fundamental I	Frequency	AVG
4	X	2436.400	102.19	0.97	103.16	Fundamental I	Frequency	peak



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EUT:	PANORAMIC UFO CAMERA	Model:	XM-JPF2-F4				
Temperature:	25 ℃	Relative Humidity: 55%					
Test Voltage:	AC 120/60Hz						
Ant. Pol.	Vertical	WILLIAM STATE	A CHILL				
Test Mode:	TX N(HT40) Mode 2422MH	TX N(HT40) Mode 2422MHz					
Remark:	N/A						

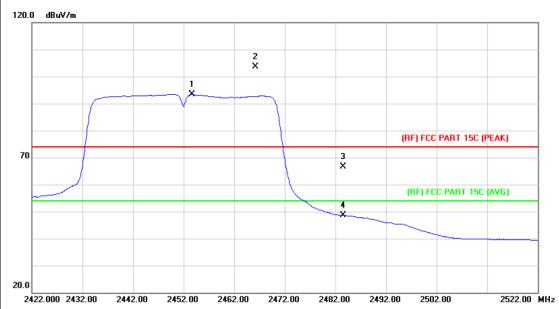


No	. Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	60.69	0.77	61.46	74.00	-12.54	peak
2		2390.000	48.98	0.77	49.75	54.00	-4.25	AVG
3	Χ	2423.900	101.10	0.92	102.02	 Fundamental	Frequency	peak
4	*	2423.900	90.11	0.92	91.03	Fundamental	Frequency	AVG



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EUT:	PANORAMIC UFO CAMERA	Model:	XM-JPF2-F4			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120/60Hz					
Ant. Pol.	Horizontal		2 Comme			
Test Mode:	TX N(HT40) Mode 2452MHz					
Remark:	emark: N/A					

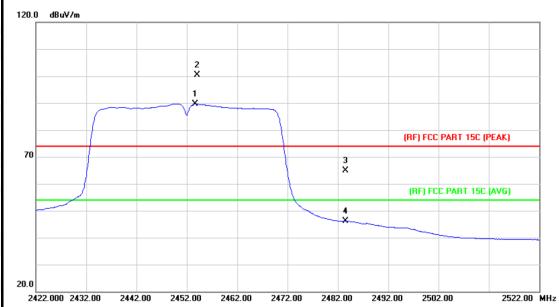


No	o. Mł	κ. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2453.700	92.34	1.04	93.38	Fundamental	Frequency	AVG
2	X	2466.200	102.59	1.09	103.68	Fundamental	Frequency	peak
3		2483.500	65.57	1.17	66.74	74.00	-7.26	peak
4		2483.500	47.50	1.17	48.67	54.00	-5.33	AVG



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EUT:	PANORAMIC UFO CAMERA	Model:	XM-JPF2-F4		
Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	AC 120/60Hz				
Ant. Pol.	Vertical				
Test Mode:	TX N(HT40) Mode 2452MHz				
Remark:	N/A				



N	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		*	2453.700	88.67	1.04	89.71	Fundamental F	requency	AVG
2		X	2454.100	99.44	1.04	100.48	Fundamental F	requency	peak
3			2483.500	63.59	1.17	64.76	74.00	-9.24	peak
4			2483.500	44.92	1.17	46.09	54.00	-7.91	AVG

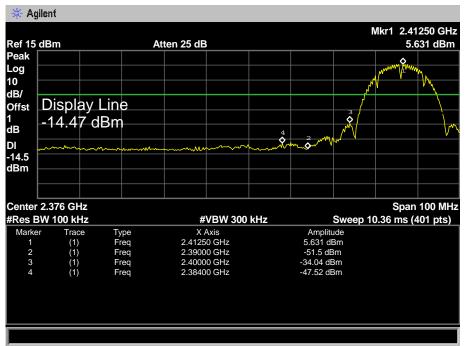


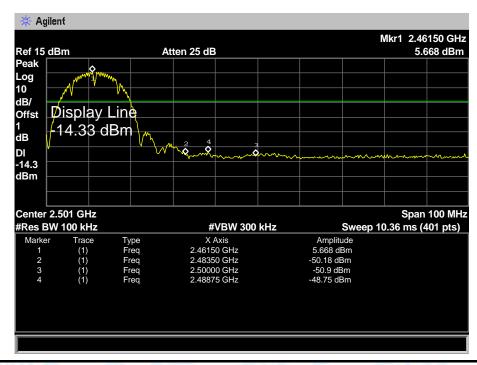


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# (2) Conducted Test

EUT:	PANORAMIC UFO CAMERA	Model:	XM-JPF2-F4	
Temperature:	25 ℃	Relative Humidity:	55%	
Test Voltage:	AC 120/60Hz			
Test Mode: TX B Mode 2412MHz / TX B Mode 2462MHz				
Remark:	The EUT is programed in continuously transmitting mode			



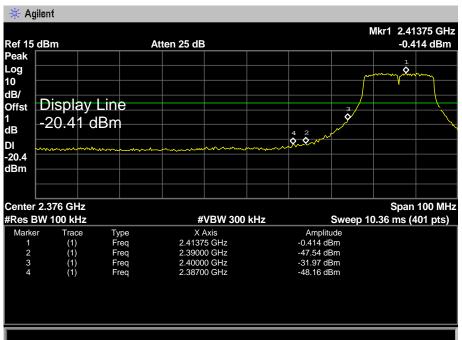


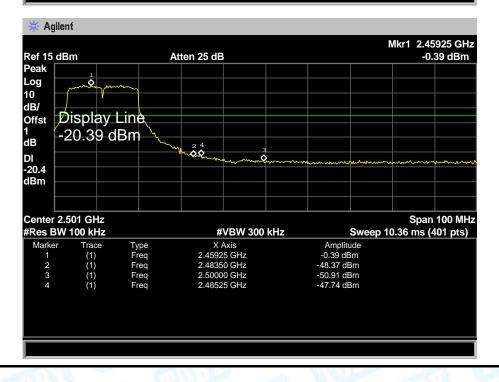




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EUT:	PANORAMIC UFO CAMERA	Model:	XM-JPF2-F4		
Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	AC 120/60Hz				
Test Mode:	TX G Mode 2412MHz / TX G Mode 2462MHz				
Remark:	The EUT is programed in co	ontinuously transmitting	mode		



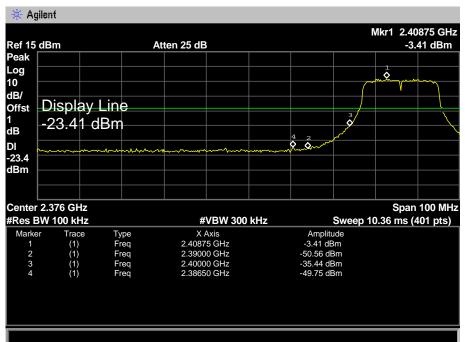


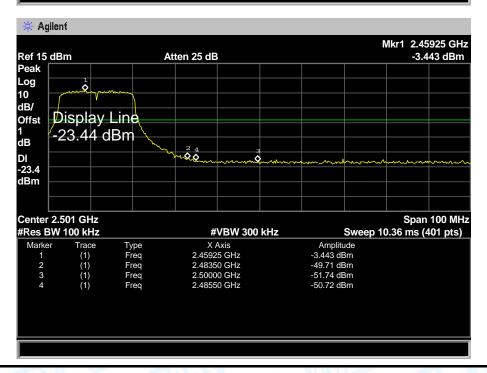


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EUT:	PANORAMIC UFO CAMERA	Model:	XM-JPF2-F4 55%		
Temperature:	25 ℃	Relative Humidity:			
Test Voltage:	Test Voltage: AC 120/60Hz				
Test Mode:	TX N(HT20) Mode 2412MHz / TX N(HT20) Mode 2462MHz				
Remark: The EUT is programed in continuously transmitting mode					



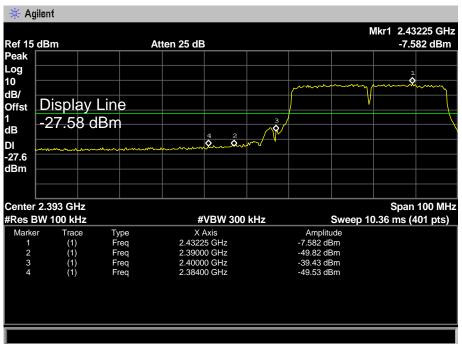


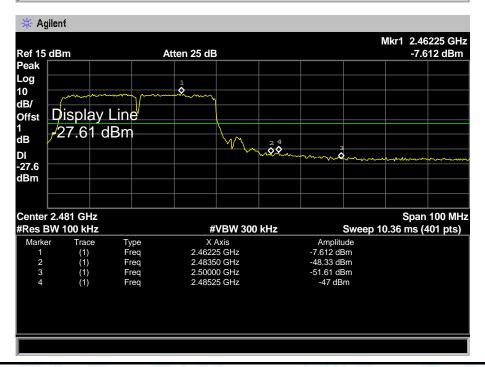




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EUT:	PANORAMIC UFO CAMERA	Model:	XM-JPF2-F4			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120/60Hz					
Test Mode:	TX N(HT40) Mode 2422MHz / TX N(HT40) Mode 2452MHz					
Remark:	The EUT is programed in co	ontinuously transmitting	mode			







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# 7. Bandwidth Test

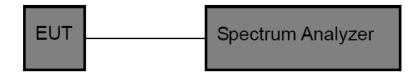
### 7.1 Test Standard and Limit

7.1.1 Test Standard FCC Part 15.247 (a)(2)

7.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/RSS-210						
Test Item	Limit	Frequency Range(MHz)				
Bandwidth	>=500 KHz (6dB bandwidth)	2400~2483.5				

# 7.2 Test Setup



### 7.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) The bandwidth is measured at an amplitude level reduced 6dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst –case (i.e the widest) bandwidth.
- (3)Measure the channel separation the spectrum analyzer was set to Resolution Bandwidth:100 kHz, and Video Bandwidth:300 kHz, Detector: Peak, Sweep Time set auto.

# 7.4 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, Digital photo framesdle and high channel for the test.



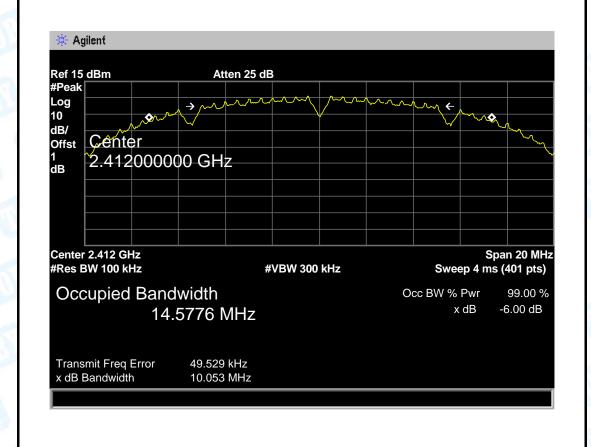
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# 7.5 Test Data

EUT:	PANORAMIC UFO CAMERA	Model:	XM-JPF2-F4			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120/60Hz	Militia	a William			
Test Mode:	TX 802.11B Mode					
Channel frequence	cy 6dB Bandwidth	99% Bandwidth	Limit			
(MHz)	(MHz)	(MHz)	(MHz)			
2412	10.053	14.5776				
2437	10.074	14.6235	>=0.5			
2462	10.082	14.6303				
902 44D Mada						

#### 802.11B Mode

#### 2412 MHz

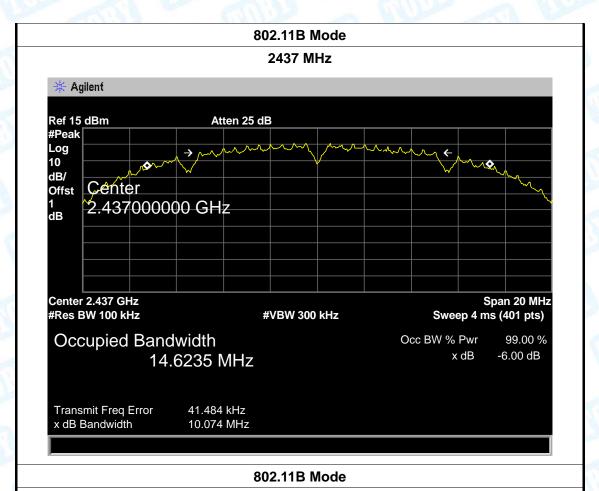




x dB Bandwidth

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#### 2462 MHz 🔆 Agilent Ref 15 dBm Atten 25 dB #Peak Log 10 **√√**√ ~^\$ dB/ Center Offst 1 dB 2.462000000 GHz Center 2.462 GHz Span 20 MHz #Res BW 100 kHz Sweep 4 ms (401 pts) **#VBW 300 kHz** Occupied Bandwidth Occ BW % Pwr 99.00 % -6.00 dB x dB 14.6303 MHz Transmit Freq Error 48.757 kHz

10.082 MHz

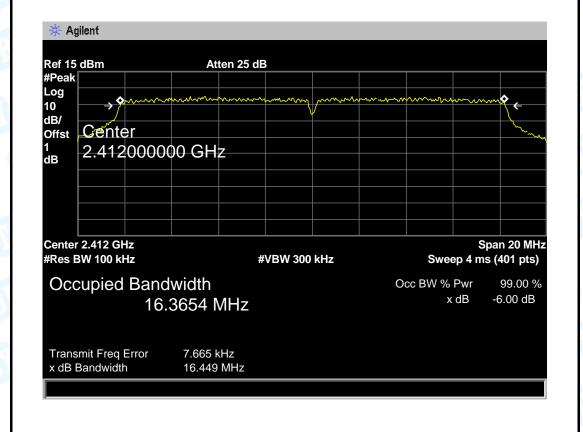


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EUT:	PANORAMIC UFO CAMERA	Model:	XM-JPF2-F4		
Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	AC 120/60Hz	PAU			
Test Mode:	TX 802.11G Mode	WILLIAM TO THE PARTY OF THE PAR	AMILE .		
Channel frequence	cy 6dB Bandwidth	99% Bandwidth	Limit		
(MHz)	(MHz)	(MHz)	(MHz)		
2412	16.449	16.3654			
2437	16.452	16.3457	>=0.5		
2462	16.438	16.3554			
802.11G Mode					

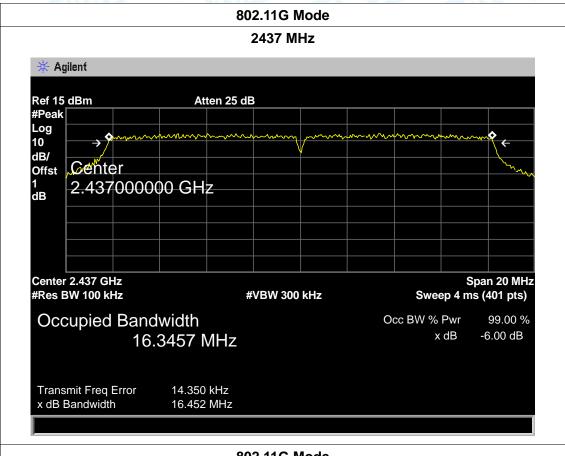
#### \_\_\_\_

### 2412 MHz

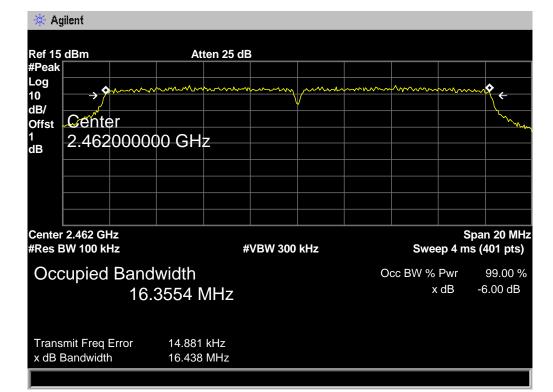




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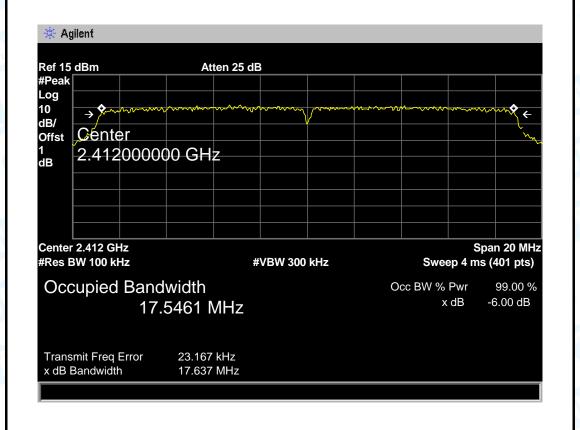
## 802.11G Mode





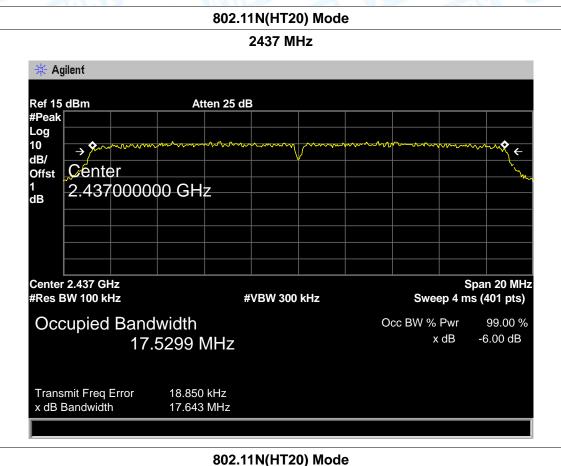
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EUT:	PANORAMIC UFO CAMERA	Model:	XM-JPF2-F4		
Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	AC 120/60Hz	AC 120/60Hz			
Test Mode:	TX 802.11N(HT20) Mode				
Channel frequence	cy 6dB Bandwidth	99% Bandwidth	Limit		
(MHz)	(MHz)	(MHz)	(MHz)		
2412	17.637	17.5461			
2437	17.643	17.5299	>=0.5		
2462	17.630	17.5386			
	802.11N(HT2	0) Mode			

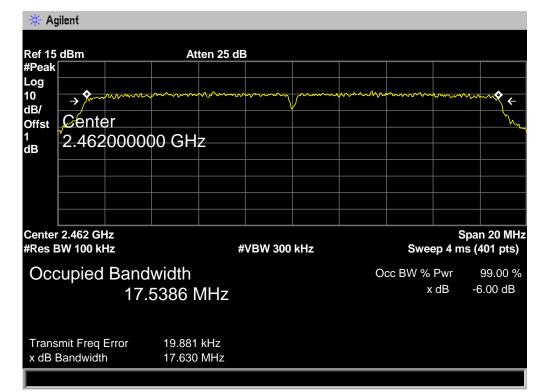




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## 802.11N(H120) Mode

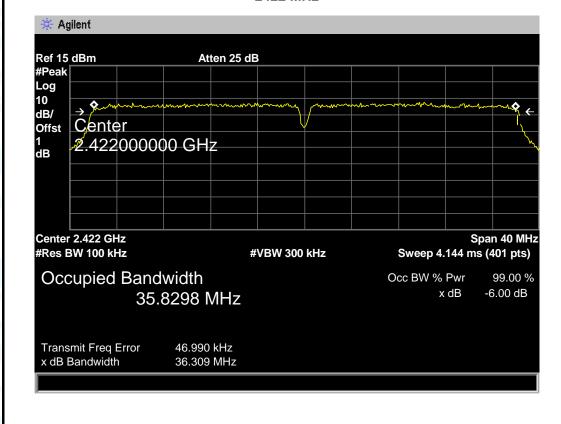




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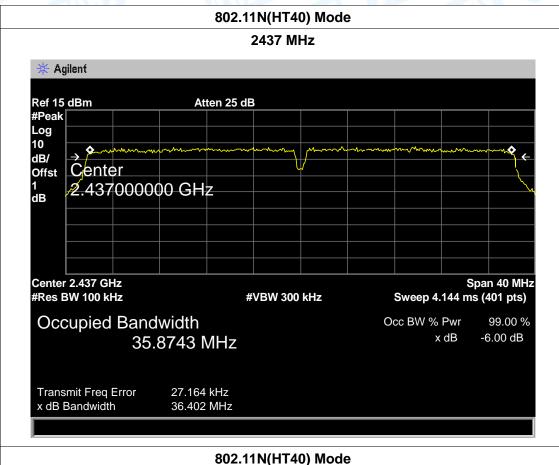
EUT:	PANORAMIC UFO CAMERA	Model:	XM-JPF2-F4		
Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	AC 120/60Hz	170			
Test Mode:	TX 802.11N(HT40) Mode	X 802.11N(HT40) Mode			
Channel frequence	cy 6dB Bandwidth	99% Bandwidth	Limit		
(MHz)	(MHz)	(MHz)	(MHz)		
2422	36.309	35.8298			
2437	36.402	36.8743	>=0.5		
2452	36.414	36.8593			
	902 11N/UT	40) Modo			

## 802.11N(HT40) Mode





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#### 2452 MHz 🔆 Agilent Atten 25 dB Ref 15 dBm #Peak Log 10 **Ç**enter dB/ Offst 1 dB ∕2.452000000 GHz Center 2.452 GHz Span 40 MHz #Res BW 100 kHz Sweep 4.144 ms (401 pts) **#VBW 300 kHz** Occupied Bandwidth Occ BW % Pwr 99.00 % -6.00 dB x dB 35.8593 MHz Transmit Freq Error 34.654 kHz x dB Bandwidth 36.414 MHz



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# 8. Peak Output Power Test

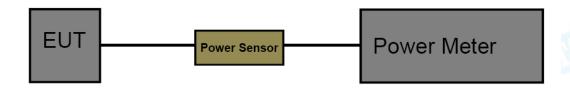
## 8.1 Test Standard and Limit

8.1.1 Test Standard FCC Part 15.247 (b)

8.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/RSS-210			
Test Item Limit Frequency Range(M			
Peak Output Power	1 Watt or 30 dBm	2400~2483.5	

## 8.2 Test Setup



### 8.3 Test Procedure

The measurement is according to section 9.1.2 of KDB 558074 D01 DTS Meas Guidance v04. The EUT was connected to RF power meter via a broadband power sensor as show the block above. The power sensor video bandwidth is greater than or equal to the DTS bandwidth of the equipment.

## 8.4 EUT Operating Condition

The EUT was set to continuously transmitting in the max power during the test.



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# 8.5 Test Data

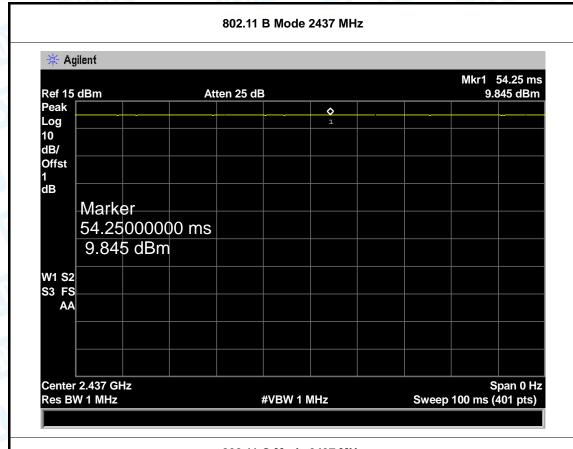
EUT:	PANORAMIC UFO CAMERA	Model:		
Temperature:	25 ℃	Relative Humidity: 55%		
Test Voltage:	AC 120/60Hz	Will be		
Mode	Channel frequency (MHz)	Test Result (dBm)	Limit (dBm)	
	2412	17.92		
802.11b	2437	17.86		
	2462	17.78		
	2412	17.25		
802.11g	2437	17.19		
	2462	17.32	30	
000 44 =	2412	15.98	30	
802.11n (HT20)	2437	15.67		
(11120)	2462	15.85		
902 44 =	2422	14.86		
802.11n (HT40)	2437	14.95		
(11140)	2452	14.69		
	Resu	ult: PASS		

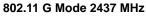
	Duty Cy	cle	
Mode	Channel frequency (MHz)	Test Result	
	2412		
802.11b	2437		
	2462		
	2412		
802.11g	2437		
	2462	. 000/	
000 44	2412	>98%	
802.11n	2437		
(HT20)	2462		
000 44	2422		
802.11n (HT40)	2437		
	2452		

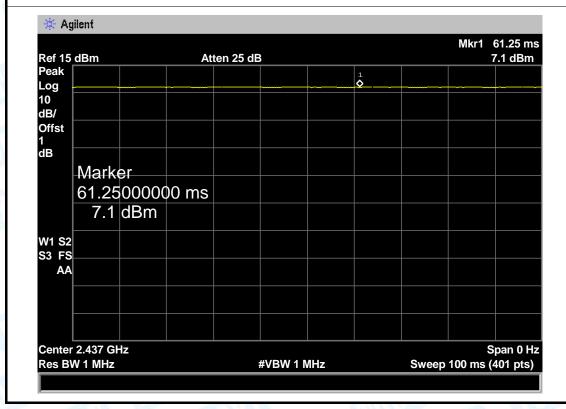


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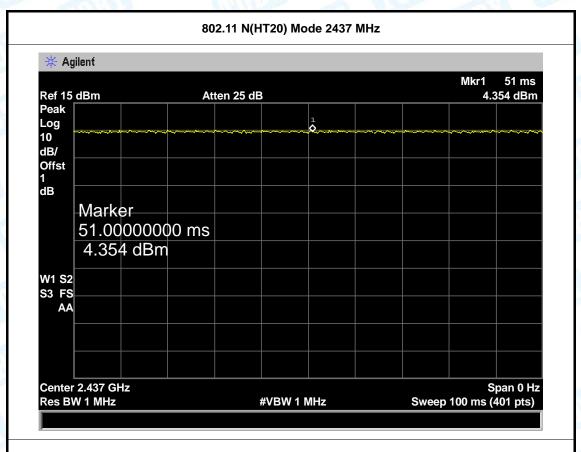


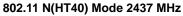


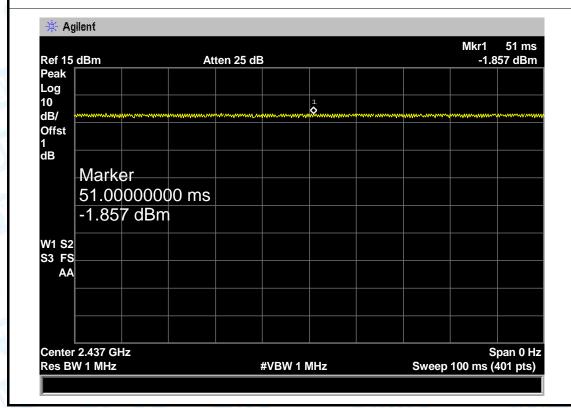


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# 9. Power Spectral Density Test

### 9.1 Test Standard and Limit

9.1.1 Test Standard FCC Part 15.247 (e)

9.1.2 Test Limit

FCC Part 15 Subpart C(15.247)				
Test Item Limit Frequency Range(MHz)				
Power Spectral Density	8dBm(in any 3 kHz)	2400~2483.5		

## 9.2 Test Setup



## 9.3 Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v04.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyser center frequency to DTS channel center frequency.
- (3) Set the span to 1.5 times the DTS bandwidth.
- (4) Set the RBW to: 3 kHz(5) Set the VBW to: 10 kHz
- (6) Detector: peak(7) Sweep time: auto
- (8) Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

## 9.4 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, Digital photo framesdle and high channel for the test.

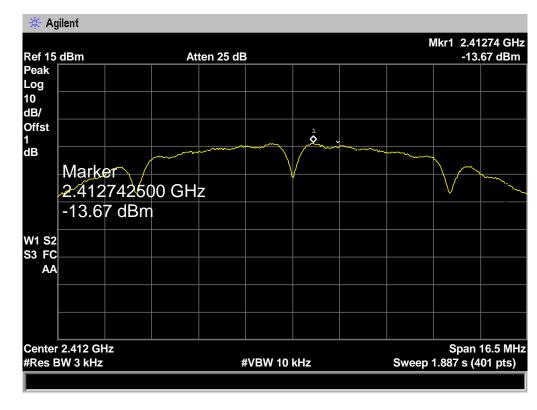


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## 9.5 Test Data

EUT:	PANORAMIC UFO CAMERA		Model:		XM-JPF2-F4
Temperature:	25 ℃		Relative Humidity:		55%
Test Voltage:	AC 120/6	AC 120/60Hz			a William
Test Mode:	TX 802.1	TX 802.11B Mode			333
Channel Freq	Channel Frequency		Density		Limit
(MHz)		(3 kHz	/dBm)		(dBm)
2412		-13	.67		
2437		-13.63			8
2462		-13.09			
		9			

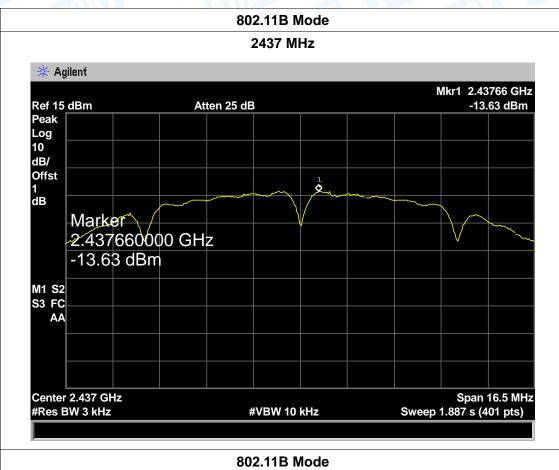
#### 802.11B Mode







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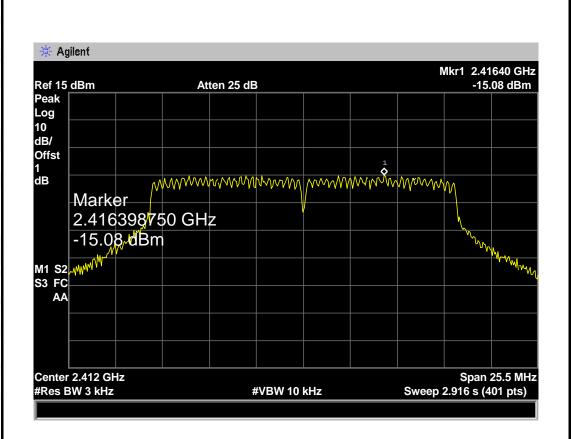


2462 MHz 🔆 Agilent Mkr1 2.46270 GHz -13.09 dBm Ref 15 dBm Atten 25 dB Peak Log 10 dB/ Offst 1 • • 1 dB Marker 2.462701250 GHz -13.09 dBm M1 S2 S3 FC AΑ Center 2.462 GHz Span 16.5 MHz #Res BW 3 kHz #VBW 10 kHz Sweep 1.887 s (401 pts)



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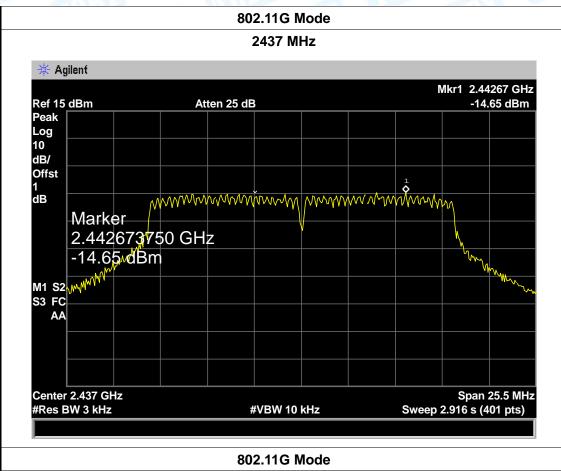
EUT:	PANORA CAMERA		Model:	XM-JPF2-F4	
Temperature:	25 ℃		Temperature:	25 ℃	
Test Voltage:	AC 120/6	0Hz			
Test Mode:	TX 802.11	TX 802.11G Mode			
Channel Freq	uency	Power Den	sity	Limit	
(MHz)		(3 kHz/dBi	m)	(dBm)	
2412		-15.08			
2437		-14.65	-14.65		
2462		-14.41			
		802.11G Mo	ode		
		2412 MH	7		







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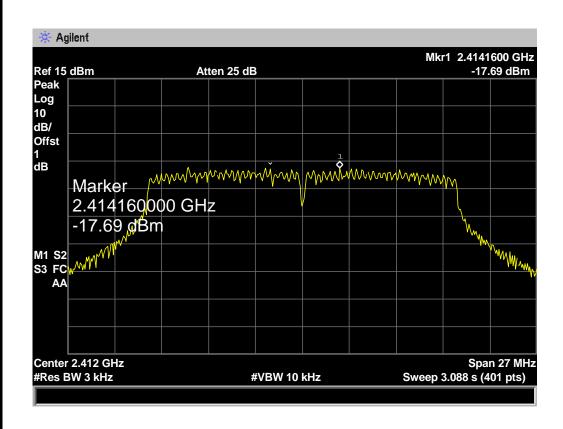


2462 MHz 🔆 Agilent Mkr1 2.46608 GHz -14.41 dBm Atten 25 dB Ref 15 dBm Peak Log 10 dB/ Offst 1 dB Marker 2.466080000 GHz -14.4**1**wdBm M1 S2 M S3 FC AA Center 2.462 GHz Span 25.5 MHz #Res BW 3 kHz #VBW 10 kHz Sweep 2.916 s (401 pts)



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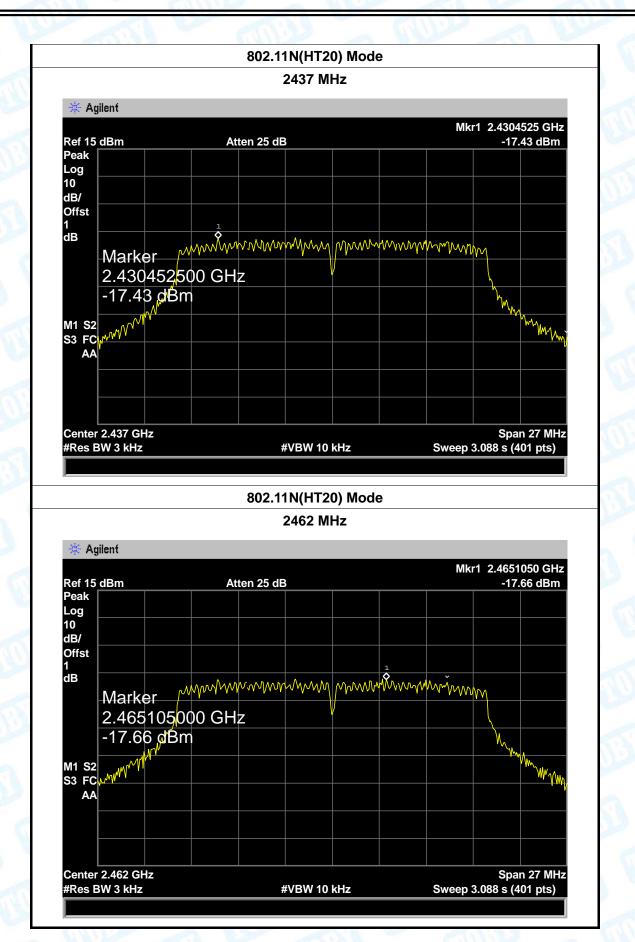
EUT:	PANORA CAMERA		Model:	XM-JPF2-F4
Temperature:	25 ℃		Temperature:	25 ℃
Test Voltage:	AC 120/60Hz			The same
Test Mode:	TX 802.11	TX 802.11N(HT20) Mode		
Channel Frequency	nel Frequency Power De		nsity	Limit
(MHz)	(MHz) (3 kHz/d		Bm)	(dBm)
2412		-17.69		
2437		-17.43		8
2462		-17.66		
		802.11N(HT20	) Mode	





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EUT:	PANORA CAMERA		XM-JPF2-F4	
Temperature:	25 ℃		Temperature:	25 ℃
Test Voltage:	AC 120/6	AC 120/60Hz		
Test Mode:	TX 802.1	TX 802.11N(HT40) Mode		
Channel Freq	Channel Frequency Power Den		sity	Limit
(MHz)	/IHz) (3 kHz/dBr		m)	(dBm)

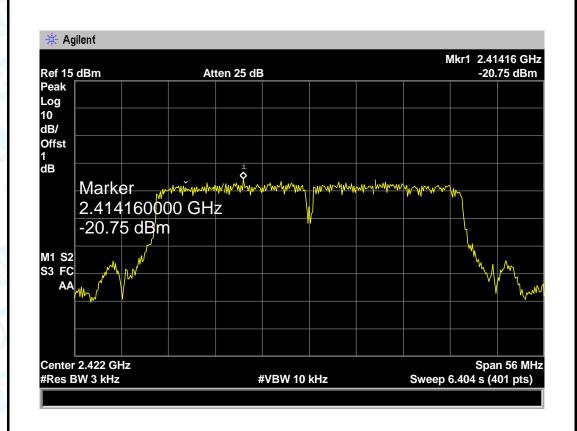
 Channel Frequency (MHz)
 Power Density (3 kHz/dBm)
 Limit (dBm)

 2422
 -20.75

 2437
 -21.16
 8

 2452
 -18.98

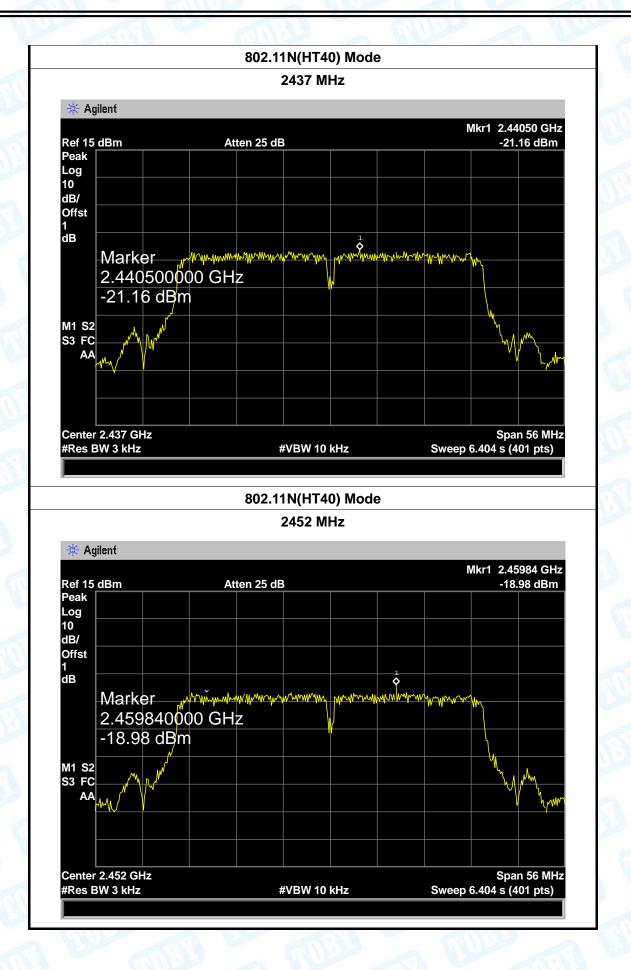
## 802.11N(HT40) Mode





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# 10. Antenna Requirement

## 10.1 Standard Requirement

10.1.1 Standard FCC Part 15.203

### 10.1.2 Requirement

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### 10.2 Antenna Connected Construction

The directional gains of the antenna used for transmitting is 3.29 dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

### Result

The EUT antenna is a PCB Antenna. It complies with the standard requirement.

	Antenna Type
33	▼ Permanent attached antenna
Gine.	□ Unique connector antenna
	□ Professional installation antenna

----END OF REPORT----