FCC Radio Test Report

FCC ID: 2AJ8TJT081G-Q23

Original Grant

Report No.	:	TB-FCC150219
Applicant	:	Shen Zhen JoyHong Technology Co., Ltd
Equipment Under Test (EUT)		
EUT Name	:	8inch wifi cloud digital photo frame
Model No.	:	JT081G-Q23
Series No.	:	AWDMPF208F
Brand Name	:	N/A
Receipt Date	:	2016-10-20
Test Date	:	2016-10-21 to 2016-10-30
Issue Date	:	2016-10-31
Standards	:	FCC Part 15, Subpart C (15.247:2016)
Test Method	:	ANSI C63.10: 2013
Conclusions	:	**PASS**

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	:	WAN SU
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.

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Contents

1. General Information about EUT

1.1 Client Information

Applicant	:	Shen Zhen JoyHong Technology Co., Ltd
Address	:	Building A2, Zhengfeng Industrial Park, Fengtang Road, Fuyong, Baoan, Shenzhen, China
Manufacturer	:	Shen Zhen JoyHong Technology Co., Ltd
Address	:	Building A2, Zhengfeng Industrial Park, Fengtang Road, Fuyong, Baoan, Shenzhen, China

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	8inch wifi cloud digital photo frame	
Models No.	:	JT081G-Q23, AWDMPF208F	
Model Difference	:	All these models are identical in the same PCB layout and electrical circuit, the only difference is model name for commercial.	
Product Description	:	Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz
		Number of Channel:	802.11b/g/n(HT20):11 channels **see note(3)**
		RF Output Power:	802.11b: 9.09 dBm 802.11g: 8.88 dBm 802.11n (HT20): 7.94 dBm
		Antenna Gain:	0.5 dBi FPC Antenna
		Modulation Type:	802.11b: CCK, QPSK, BPSK 802.11g: OFDM 802.11n: OFDM
		Bit Rate of Transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6 Mbps 802.11n:up to 150Mbps
Power Supply	:	DC Voltage supplied from Switching Adapter.	
Power Rating	:	Input : AC100-240V~50/60Hz 0.3 A Output: DC 5V——1.5A	
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 v03r05.

(2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

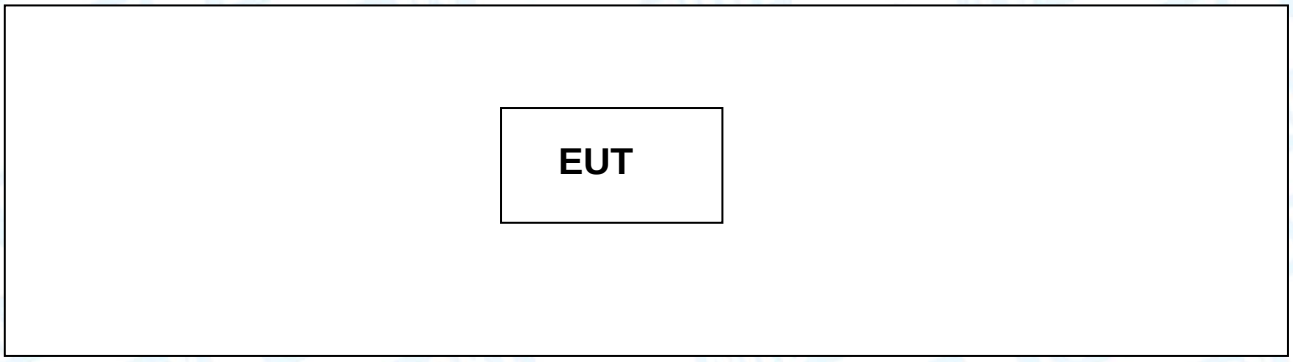
(3) Channel List:

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		

(4) The Antenna information about the equipment is provided by the applicant.

1.3 Block Diagram Showing the Configuration of System Tested

TX Mode



1.4 Description of Support Units

The EUT has been test as an independent unit

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	TX B Mode

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

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)

(2) During the testing procedure, the continuously transmitting with the maximum power mode was programmed by the customer.

(3) The EUT is considered a mobile 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.

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	Ampak RF Test Tool VER:5.3		
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

1.7 Measurement Uncertainty

The reported uncertainty of measurement y ± 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_{Lab})
Conducted Emission	Level Accuracy: 9kHz~150kHz 150kHz to 30MHz	 ±3.42 dB ±3.42 dB
Radiated Emission	Level Accuracy: 9kHz to 30 MHz	±4.60 dB
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	±4.40 dB
Radiated Emission	Level Accuracy: Above 1000MHz	±4.20 dB

1.7 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.

2. Test Summary

FCC Part 15 Subpart C(15.247)/ RSS 247 Issue 1				
Standard Section		Test Item	Judgment	Remark
FCC	IC			
15.203	/	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)& 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.				

3. Test Equipment

Conducted Emission Test					
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 Test					
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. 20, 2016	Mar. 19, 2017
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Mar. 20, 2016	Mar. 19, 2017
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar. 19, 2016	Mar. 18, 2017
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar. 19, 2016	Mar. 18, 2017
Pre-amplifier	Sonoma	310N	185903	Mar. 20, 2016	Mar. 19, 2017
Pre-amplifier	HP	8447B	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 Conducted Emission					
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	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

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

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

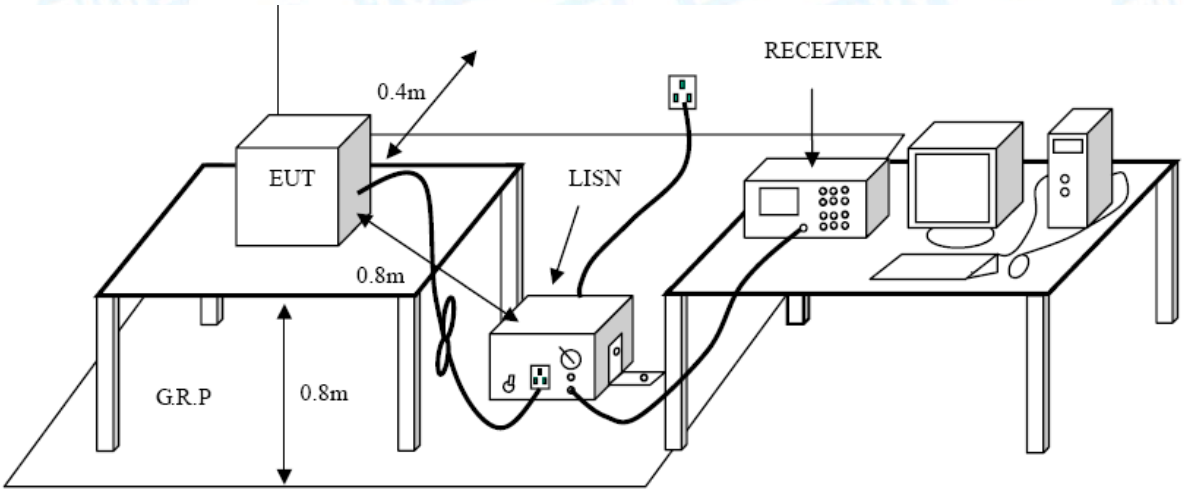
Notes:

(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.

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.

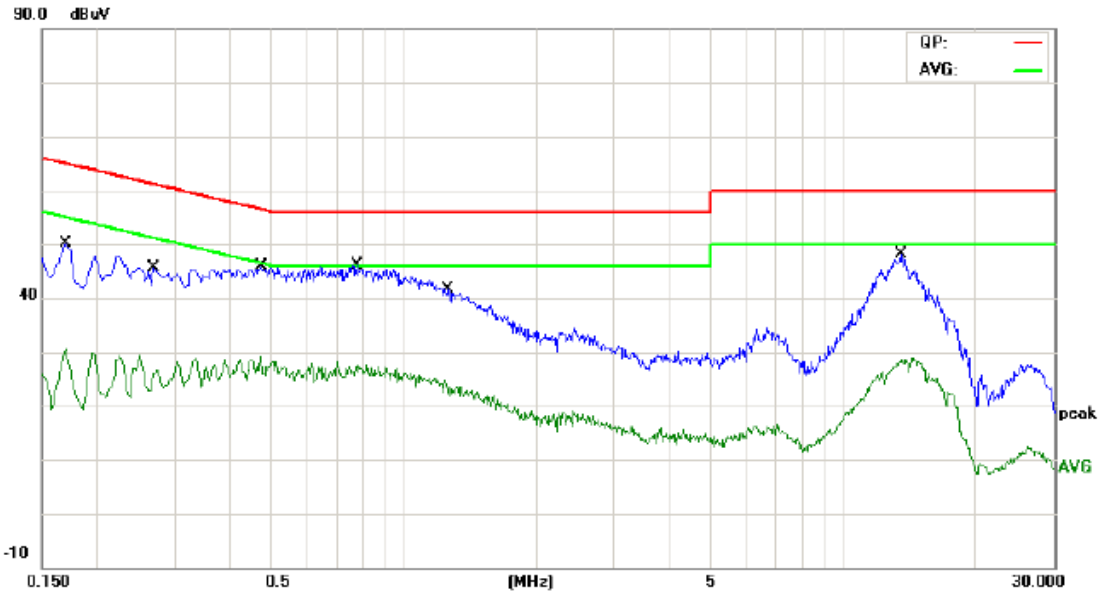
4.4 EUT Operating Mode

Please refer to the description of test mode.

4.5 Test Data

Please see the next page.

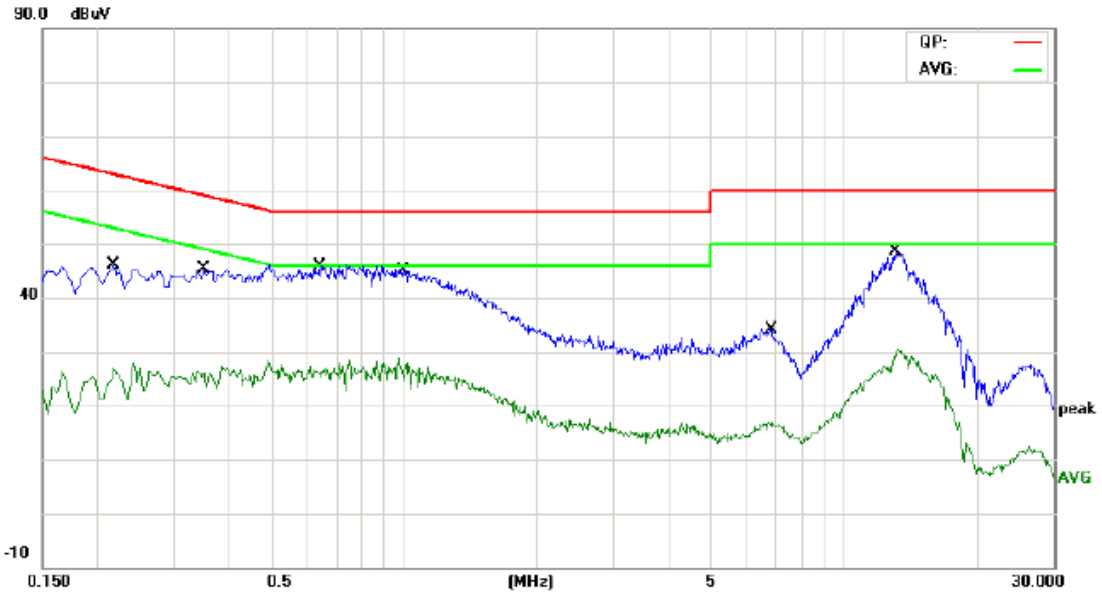
EUT:	8inch wifi cloud digital photo frame	Model Name :	JT081G-Q23
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Terminal:	Line		
Test Mode:	TX B Mode		
Remark:	Only worse case is reported		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1700	31.30	9.96	41.26	64.96	-23.70	QP
2		0.1700	13.09	9.96	23.05	54.96	-31.91	AVG
3		0.2700	31.45	10.02	41.47	61.12	-19.65	QP
4		0.2700	15.11	10.02	25.13	51.12	-25.99	AVG
5		0.4740	31.35	10.02	41.37	56.44	-15.07	QP
6		0.4740	14.86	10.02	24.88	46.44	-21.56	AVG
7	*	0.7820	31.50	10.10	41.60	56.00	-14.40	QP
8		0.7820	14.99	10.10	25.09	46.00	-20.91	AVG
9		1.2740	28.57	10.06	38.63	56.00	-17.37	QP
10		1.2740	14.06	10.06	24.12	46.00	-21.88	AVG
11		13.4220	29.93	10.23	40.16	60.00	-19.84	QP
12		13.4220	16.24	10.23	26.47	50.00	-23.53	AVG

Emission Level= Read Level+ Correct Factor

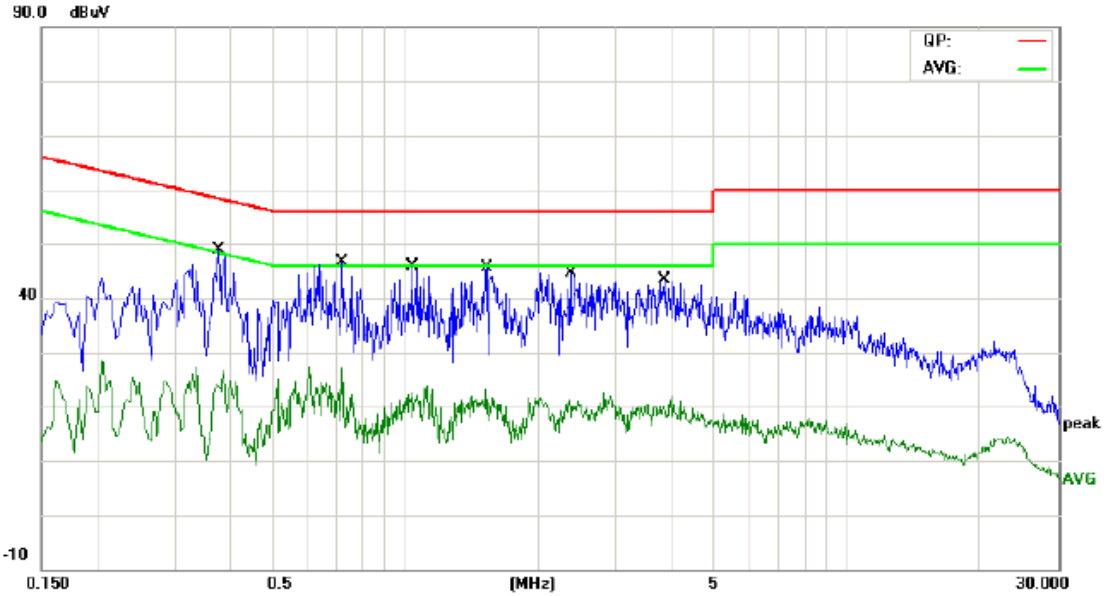
EUT:	8inch wifi cloud digital photo frame	**Model Name :**	JT081G-Q23
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC 120V/60Hz		
Terminal:	Neutral		
Test Mode:	TX B Mode		
Remark:	Only worse case is reported		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.2180	31.69	10.02	41.71	62.89	-21.18	QP
2		0.2180	14.90	10.02	24.92	52.89	-27.97	AVG
3		0.3500	29.87	10.02	39.89	58.96	-19.07	QP
4		0.3500	13.17	10.02	23.19	48.96	-25.77	AVG
5	*	0.6419	32.45	10.09	42.54	56.00	-13.46	QP
6		0.6419	17.05	10.09	27.14	46.00	-18.86	AVG
7		0.9900	30.50	10.06	40.56	56.00	-15.44	QP
8		0.9900	14.82	10.06	24.88	46.00	-21.12	AVG
9		6.8340	16.92	10.05	26.97	60.00	-33.03	QP
10		6.8340	4.54	10.05	14.59	50.00	-35.41	AVG
11		13.1180	32.20	10.22	42.42	60.00	-17.58	QP
12		13.1180	18.51	10.22	28.73	50.00	-21.27	AVG

Emission Level= Read Level+ Correct Factor

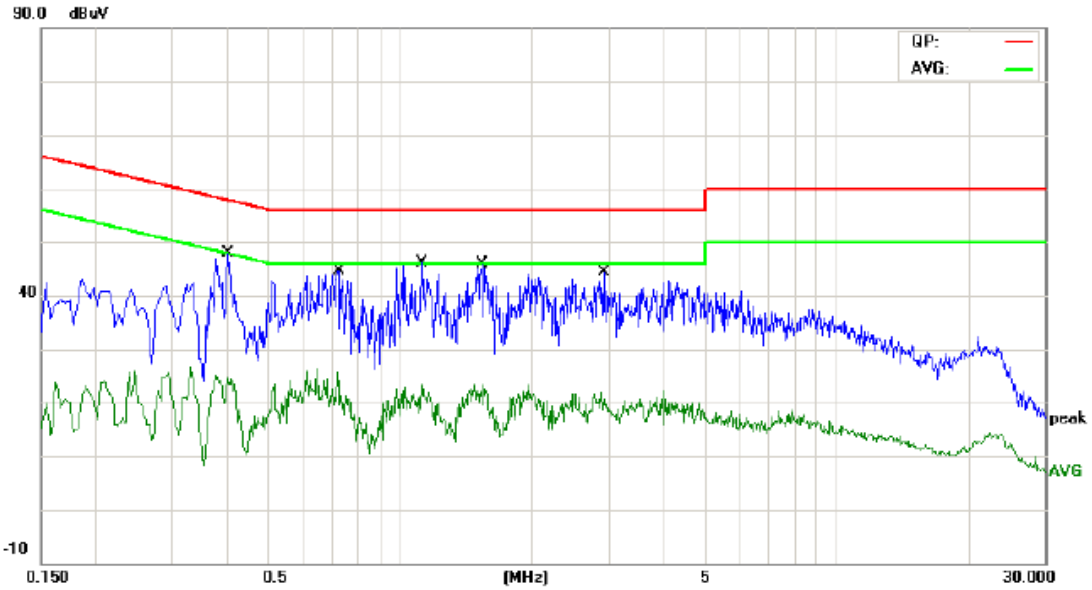
EUT:	8inch wifi cloud digital photo frame	**Model Name :**	JT081G-Q23
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC 240V/60Hz		
Terminal:	Line		
Test Mode:	TX B Mode		
Remark:	Only worse case is reported		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	*	0.3780	29.16	10.02	39.18	58.32	-19.14	QP
2		0.3780	13.41	10.02	23.43	48.32	-24.89	AVG
3		0.7180	25.40	10.12	35.52	56.00	-20.48	QP
4		0.7180	10.39	10.12	20.51	46.00	-25.49	AVG
5		1.0339	26.13	10.06	36.19	56.00	-19.81	QP
6		1.0339	9.41	10.06	19.47	46.00	-26.53	AVG
7		1.5339	24.63	10.06	34.69	56.00	-21.31	QP
8		1.5339	9.86	10.06	19.92	46.00	-26.08	AVG
9		2.3620	22.87	10.05	32.92	56.00	-23.08	QP
10		2.3620	7.40	10.05	17.45	46.00	-28.55	AVG
11		3.8500	19.88	10.00	29.88	56.00	-26.12	QP
12		3.8500	5.63	10.00	15.63	46.00	-30.37	AVG

Emission Level= Read Level+ Correct Factor

EUT:	8inch wifi cloud digital photo frame	Model Name :	JT081G-Q23
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 240V/60Hz		
Terminal:	Neutral		
Test Mode:	TX B Mode		
Remark:	Only worse case is reported		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.4020	27.17	10.02	37.19	57.81	-20.62	QP
2		0.4020	10.15	10.02	20.17	47.81	-27.64	AVG
3	*	0.7220	25.47	10.12	35.59	56.00	-20.41	QP
4		0.7220	24.37	10.12	34.49	56.00	-21.51	QP
5		0.7220	10.80	10.12	20.92	46.00	-25.08	AVG
6		0.7220	7.02	10.12	17.14	46.00	-28.86	AVG
7		1.1220	24.89	10.06	34.95	56.00	-21.05	QP
8		1.1220	10.25	10.06	20.31	46.00	-25.69	AVG
9		1.5420	24.51	10.06	34.57	56.00	-21.43	QP
10		1.5420	10.08	10.06	20.14	46.00	-25.86	AVG
11		2.9219	21.72	10.03	31.75	56.00	-24.25	QP
12		2.9219	5.68	10.03	15.71	46.00	-30.29	AVG

Emission Level= Read Level+ Correct Factor

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)

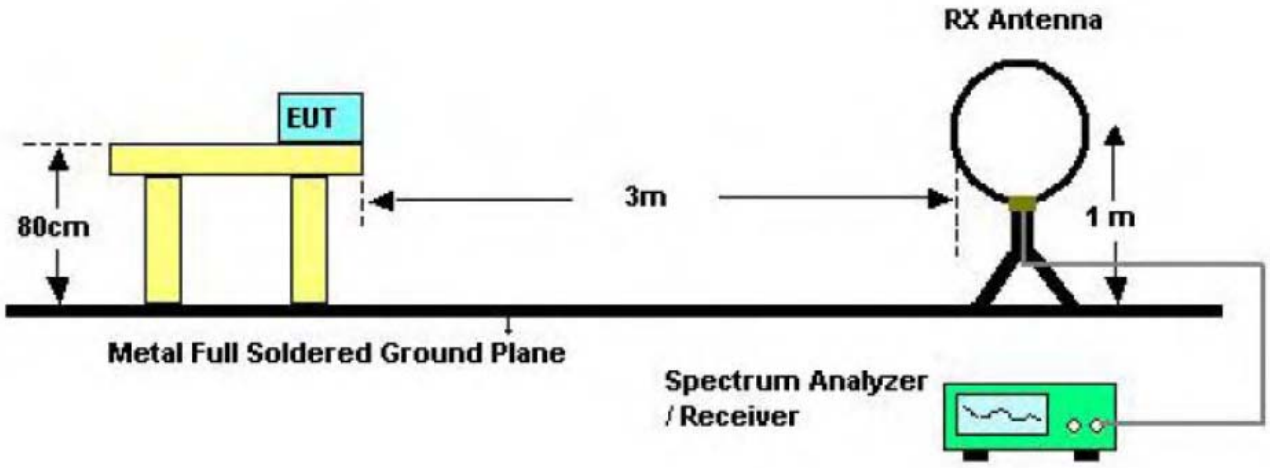
Frequency (MHz)	Class A (dBuV/m)(at 3 M)		Class B (dBuV/m)(at 3 M)	
	Peak	Average	Peak	Average
Above 1000	80	60	74	54

Note:

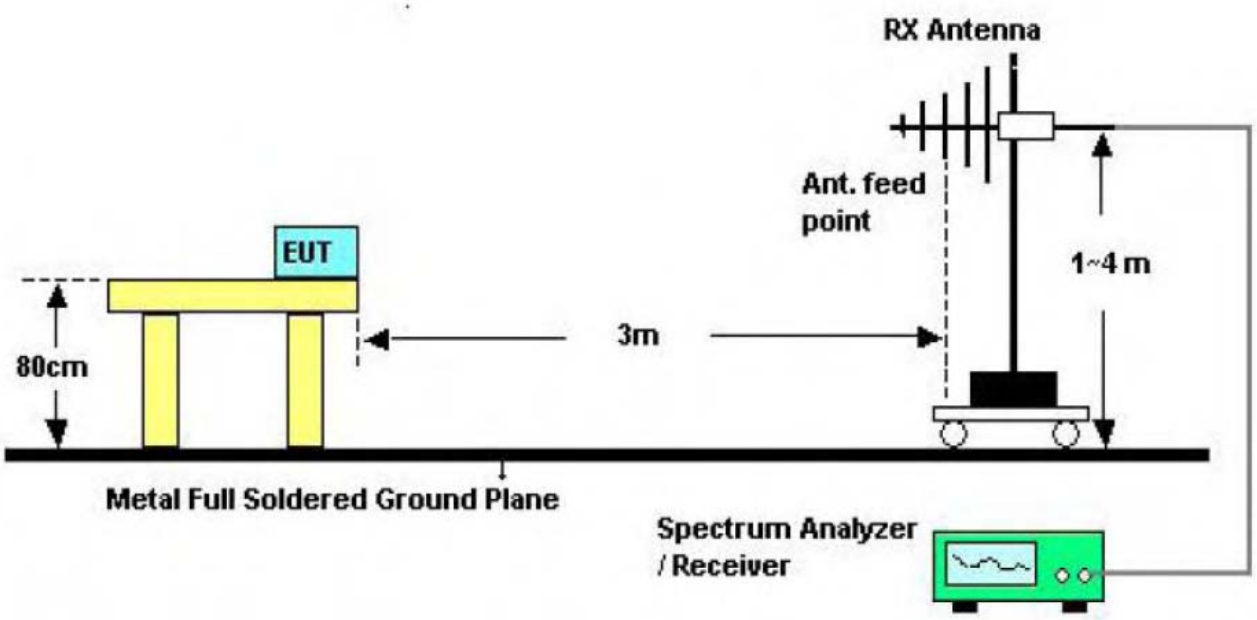
(1) The tighter limit applies at the band edges.

(2) Emission Level(dBuV/m)=20log Emission Level(uV/m)

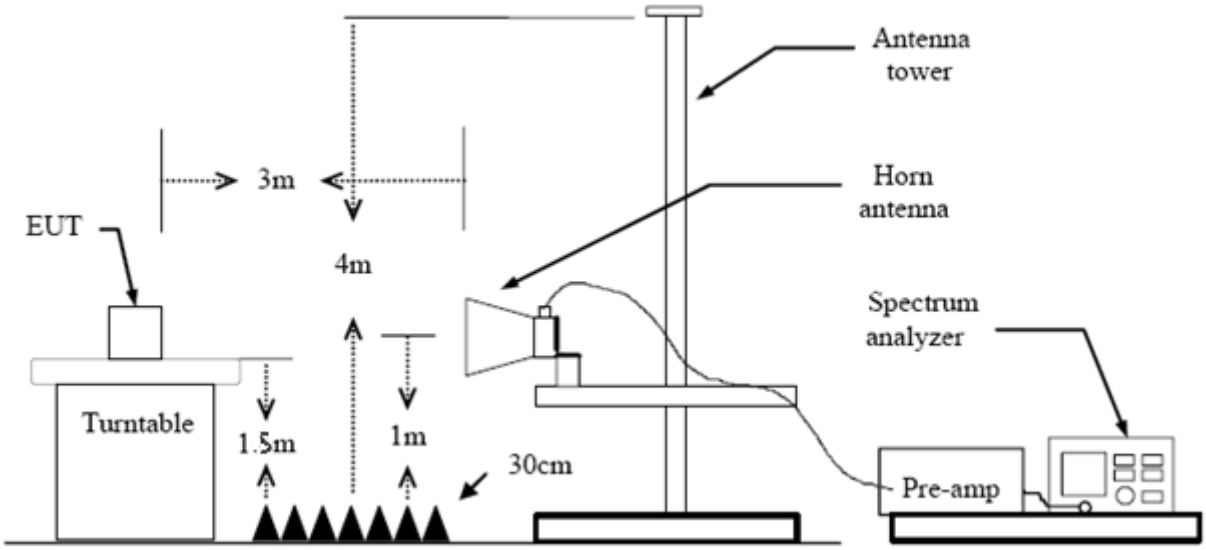
5.2 Test Setup



Below 30MHz Test Setup



Below 1000MHz Test Setup



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

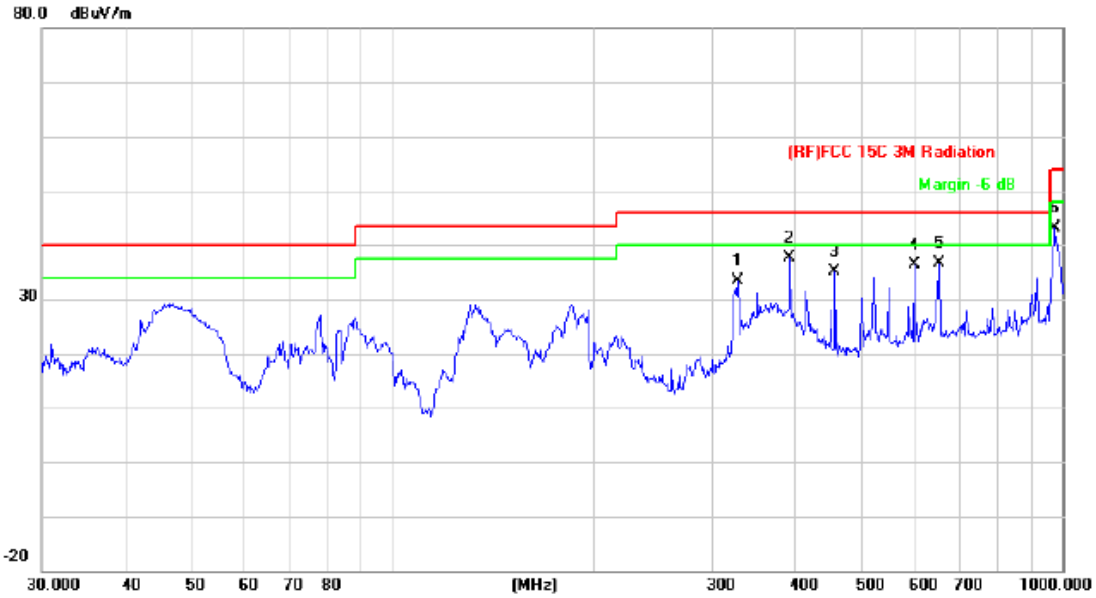
The Equipment Under Test was set to Continual Transmitting in maximum power.

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.

EUT:	8inch wifi cloud digital photo frame	Model:	JT081G-Q23
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz		
Remark:	Only worse case is reported		

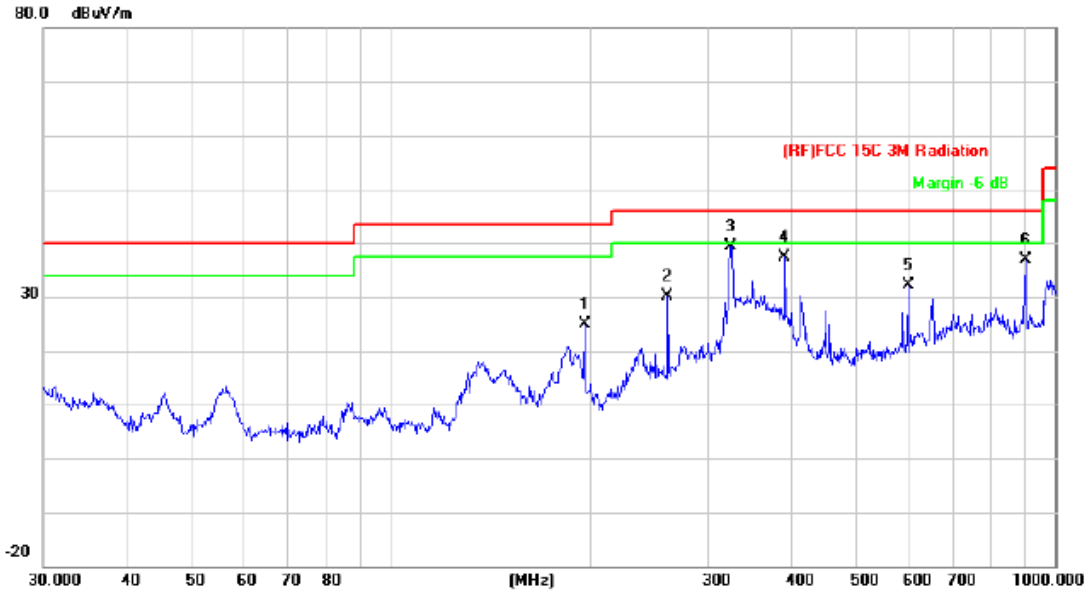


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		327.8873	49.00	-15.52	33.48	46.00	-12.52	peak
2	*	392.0951	50.43	-12.87	37.56	46.00	-8.44	peak
3		457.5073	46.82	-11.71	35.11	46.00	-10.89	peak
4		601.4265	45.02	-8.67	36.35	46.00	-9.65	peak
5		654.2318	44.38	-7.67	36.71	46.00	-9.29	peak
6		975.7529	46.30	-3.21	43.09	54.00	-10.91	peak

*:Maximum data x:Over limit !:over margin

Emission Level= Read Level+ Correct Factor

EUT:	8inch wifi cloud digital photo frame	Model:	JT081G-Q23
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz		
Remark:	Only worse case is reported		

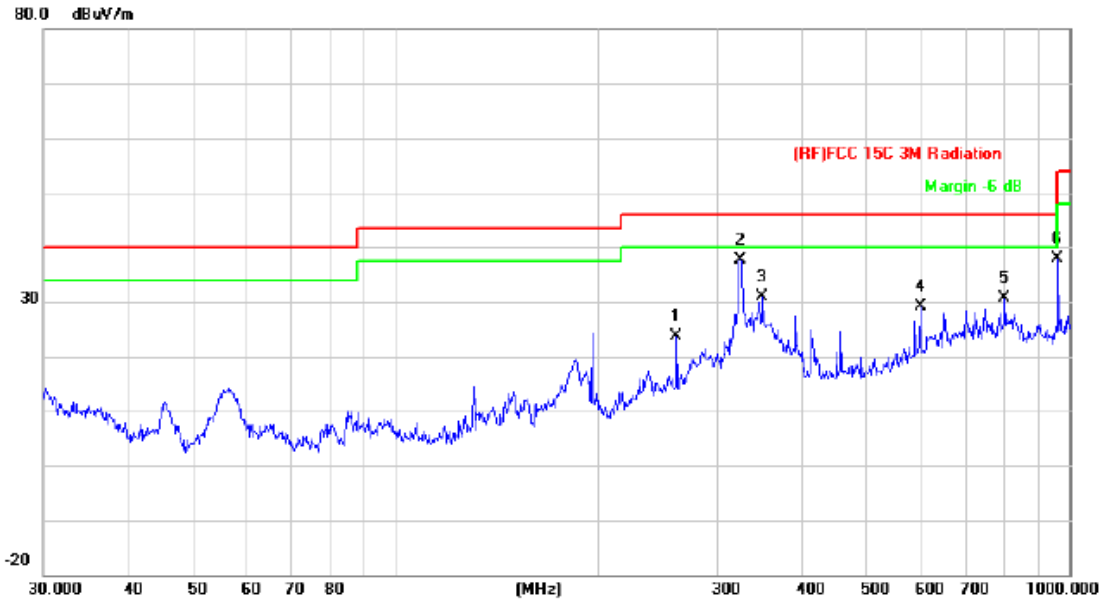


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		195.8220	45.18	-20.22	24.96	43.50	-18.54	peak
2		261.0583	47.67	-17.46	30.21	46.00	-15.79	peak
3	*	324.4561	55.17	-15.72	39.45	46.00	-6.55	peak
4		392.0951	50.30	-12.87	37.43	46.00	-8.57	peak
5		601.4265	40.71	-8.67	32.04	46.00	-13.96	peak
6		903.3094	40.51	-3.55	36.96	46.00	-9.04	peak

*:Maximum data x:Over limit !:over margin

Emission Level= Read Level+ Correct Factor

EUT:	8inch wifi cloud digital photo frame	**Model:**	JT081G-Q23
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2437MHz		
Remark:	Only worse case is reported		

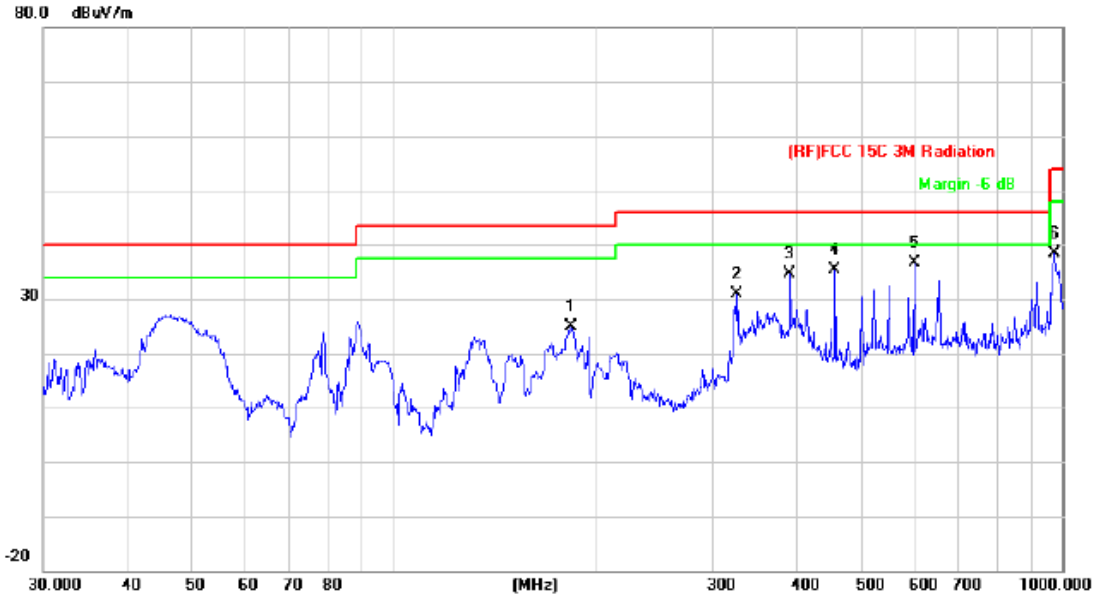


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		261.0583	41.01	-17.46	23.55	46.00	-22.45	peak
2	*	324.4561	53.35	-15.72	37.63	46.00	-8.37	peak
3		350.4768	44.97	-14.16	30.81	46.00	-15.19	peak
4		601.4265	37.90	-8.67	29.23	46.00	-16.77	peak
5		801.7863	35.99	-5.27	30.72	46.00	-15.28	peak
6		962.1623	41.13	-3.23	37.90	54.00	-16.10	peak

*:Maximum data x:Over limit !:over margin

Emission Level= Read Level+ Correct Factor

EUT:	8inch wifi cloud digital photo frame	**Model:**	JT081G-Q23
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2437MHz		
Remark:	Only worse case is reported		

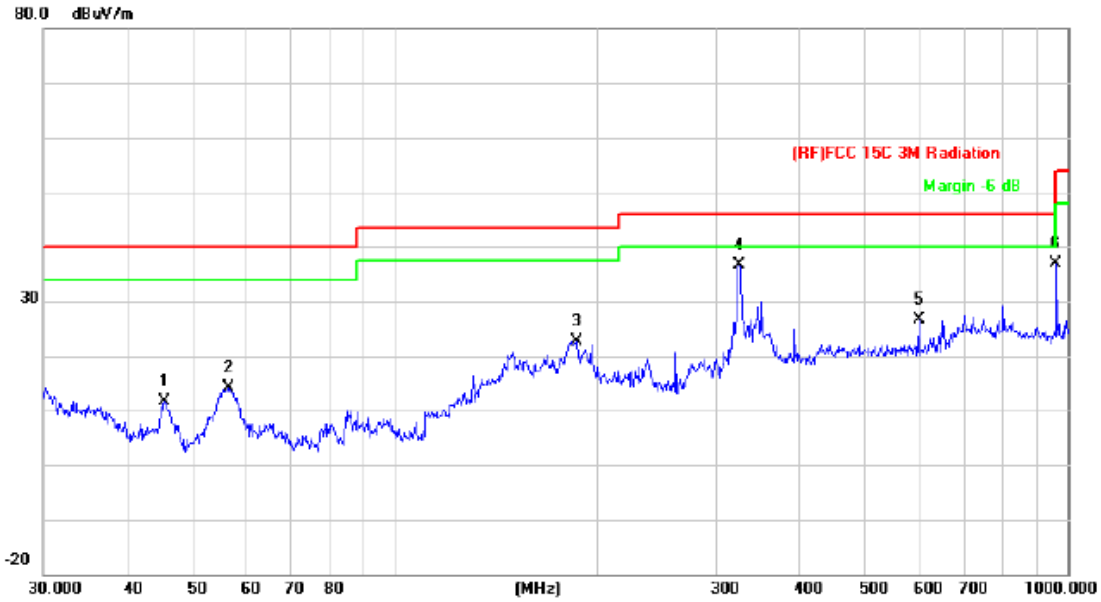


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		184.4898	45.19	-20.40	24.79	43.50	-18.71	peak
2		326.7395	46.40	-15.59	30.81	46.00	-15.19	peak
3		392.0951	47.59	-12.87	34.72	46.00	-11.28	peak
4		457.5073	47.07	-11.71	35.36	46.00	-10.64	peak
5	*	601.4265	45.24	-8.67	36.57	46.00	-9.43	peak
6		975.7529	41.59	-3.21	38.38	54.00	-15.62	peak

*:Maximum data x:Over limit !:over margin

Emission Level= Read Level+ Correct Factor

EUT:	8inch wifi cloud digital photo frame	**Model:**	JT081G-Q23
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2462MHz		
Remark:	Only worse case is reported		

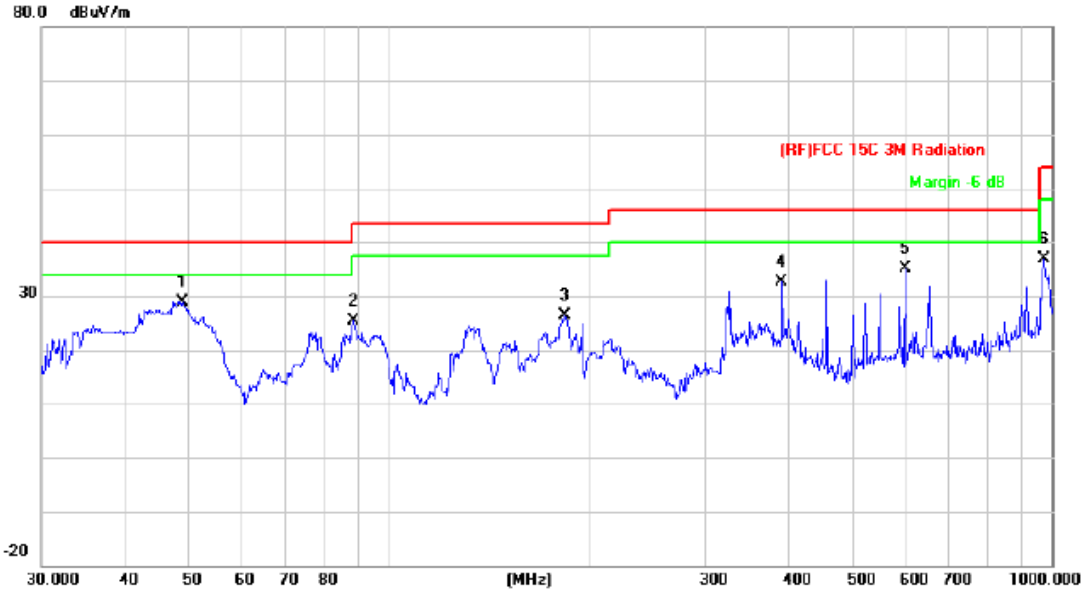


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		45.3755	34.27	-22.56	11.71	40.00	-28.29	peak
2		56.3947	38.62	-24.57	14.05	40.00	-25.95	peak
3		185.7880	43.15	-20.42	22.73	43.50	-20.77	peak
4	*	324.4560	52.35	-15.72	36.63	46.00	-9.37	peak
5		601.4265	35.40	-8.67	26.73	46.00	-19.27	peak
6		962.1621	40.13	-3.23	36.90	54.00	-17.10	peak

*:Maximum data x:Over limit !:over margin

Emission Level= Read Level+ Correct Factor

EUT:	8inch wifi cloud digital photo frame	Model:	JT081G-Q23
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2462MHz		
Remark:	Only worse case is reported		

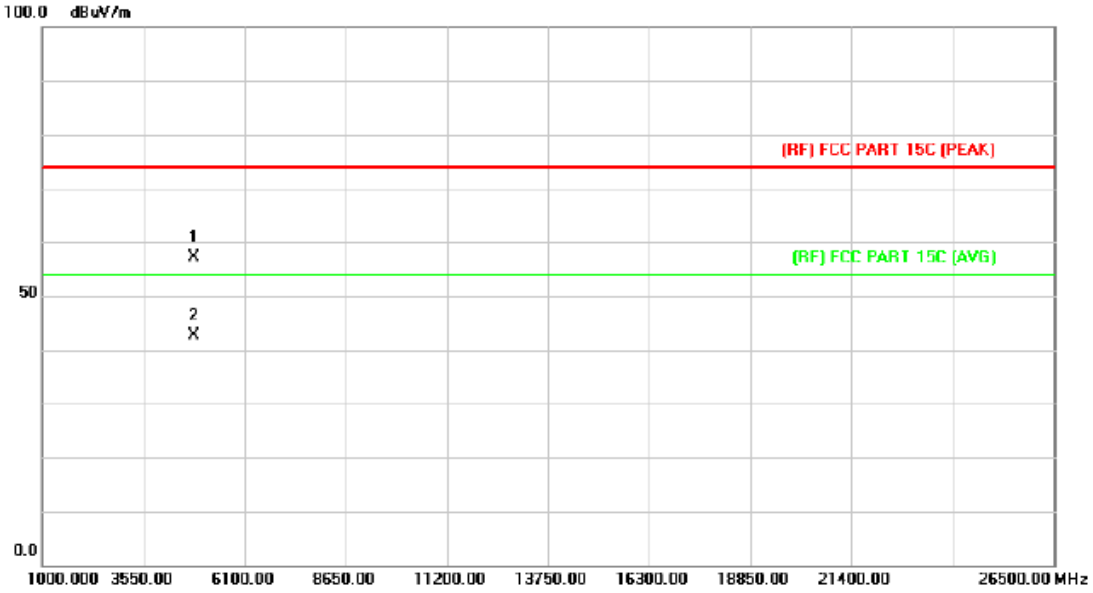


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		48.8429	52.94	-24.02	28.92	40.00	-11.08	peak
2		88.6524	48.11	-22.82	25.29	43.50	-18.21	peak
3		184.4898	46.69	-20.40	26.29	43.50	-17.21	peak
4		392.0951	45.59	-12.87	32.72	46.00	-13.28	peak
5	*	601.4265	43.74	-8.67	35.07	46.00	-10.93	peak
6		975.7527	40.09	-3.21	36.88	54.00	-17.12	peak

*:Maximum data x:Over limit !:over margin

Emission Level= Read Level+ Correct Factor

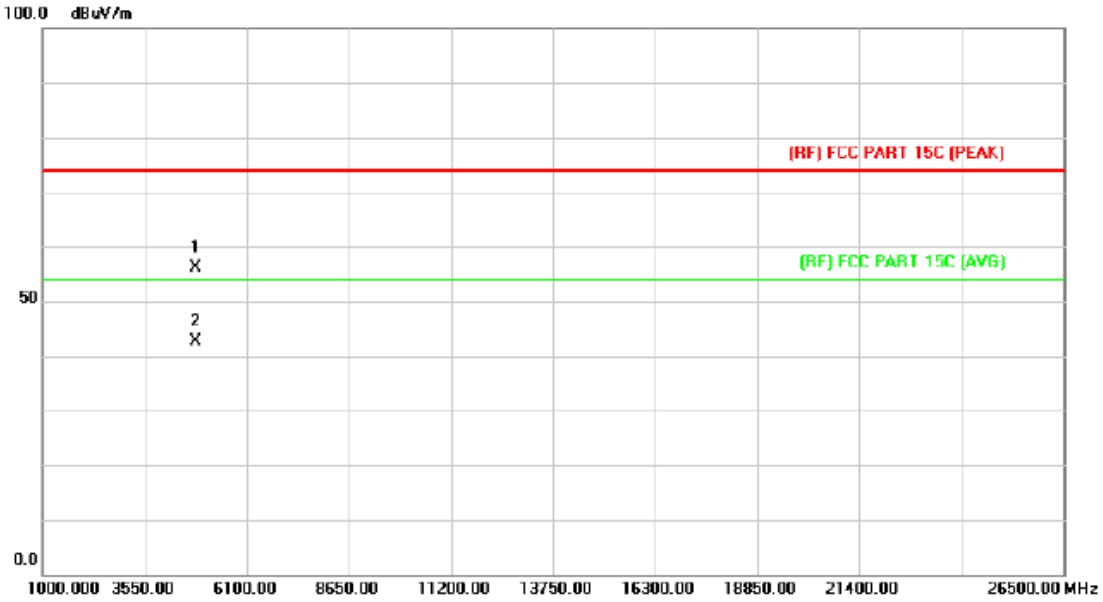
EUT:	8inch wifi cloud digital photo frame	**Model:**	JT081G-Q23
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4822.560	43.54	13.55	57.09	74.00	-16.91	peak
2	*	4822.680	29.05	13.55	42.60	54.00	-11.40	AVG

Emission Level= Read Level+ Correct Factor

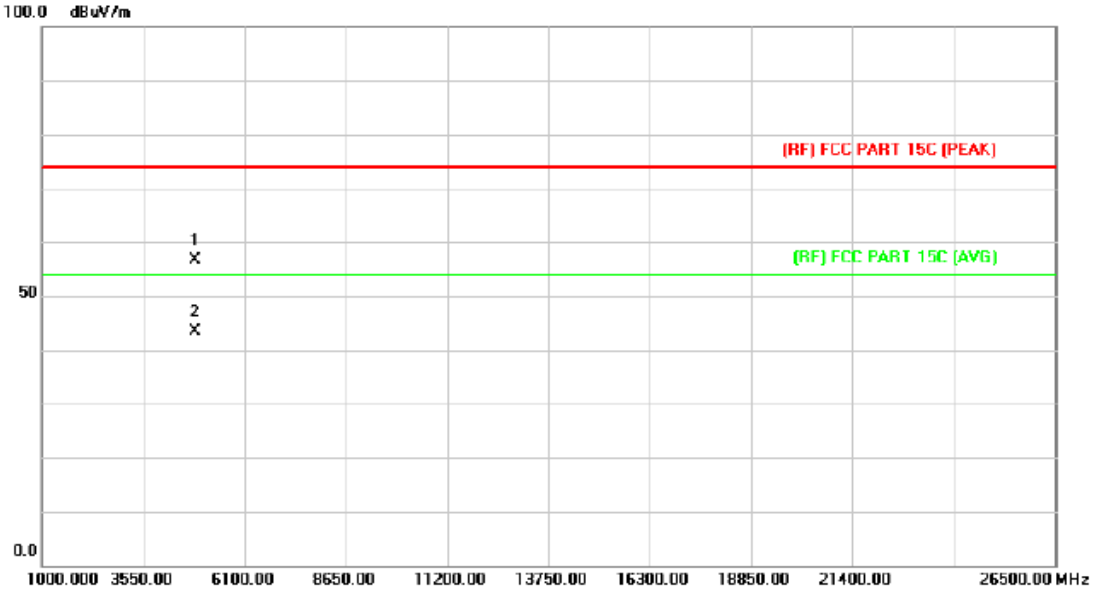
EUT:	8inch wifi cloud digital photo frame	**Model:**	JT081G-Q23
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.700	42.52	13.56	56.08	74.00	-17.92	peak
2	*	4824.312	29.17	13.56	42.73	54.00	-11.27	AVG

Emission Level= Read Level+ Correct Factor

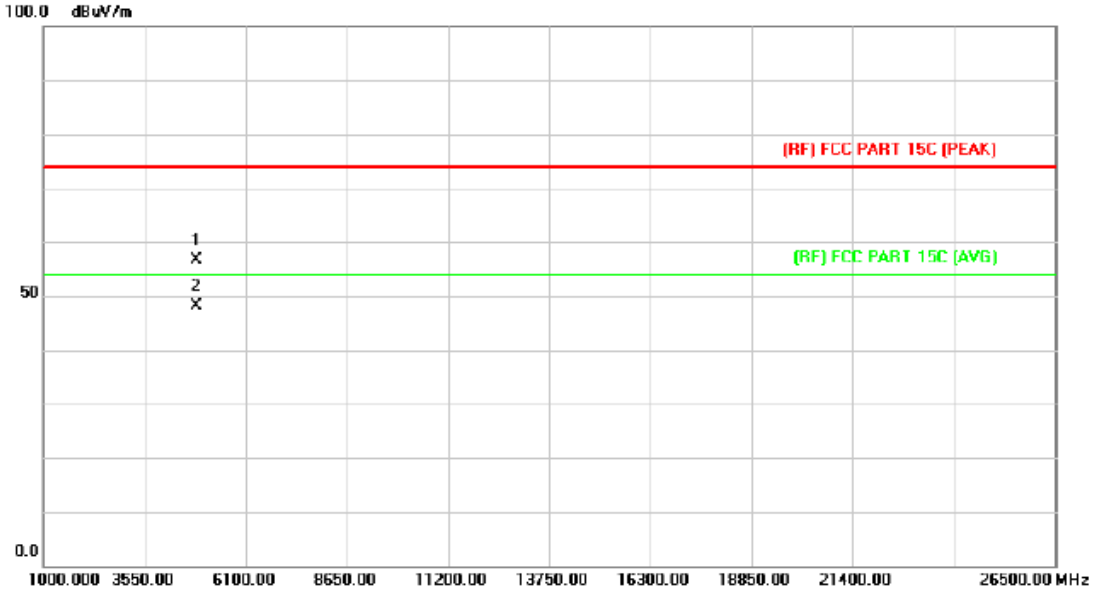
EUT:	8inch wifi cloud digital photo frame	**Model:**	JT081G-Q23
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.452	42.82	13.86	56.68	74.00	-17.32	peak
2	*	4874.658	29.60	13.86	43.46	54.00	-10.54	AVG

Emission Level= Read Level+ Correct Factor

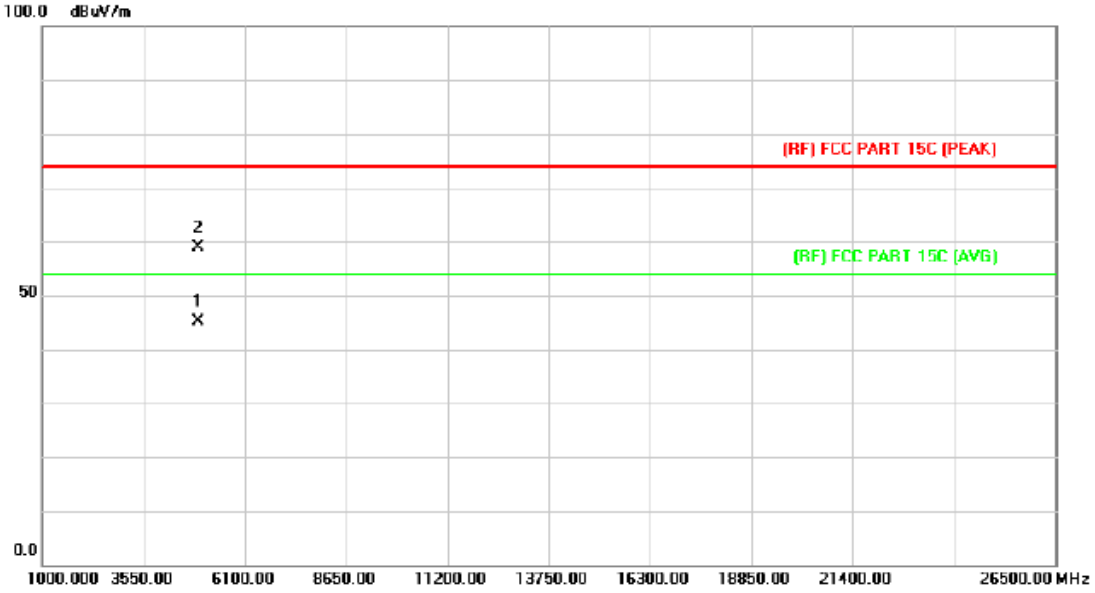
EUT:	8inch wifi cloud digital photo frame	**Model:**	JT081G-Q23
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.015	42.82	13.86	56.68	74.00	-17.32	peak
2	*	4874.210	34.17	13.86	48.03	54.00	-5.97	AVG

Emission Level= Read Level+ Correct Factor

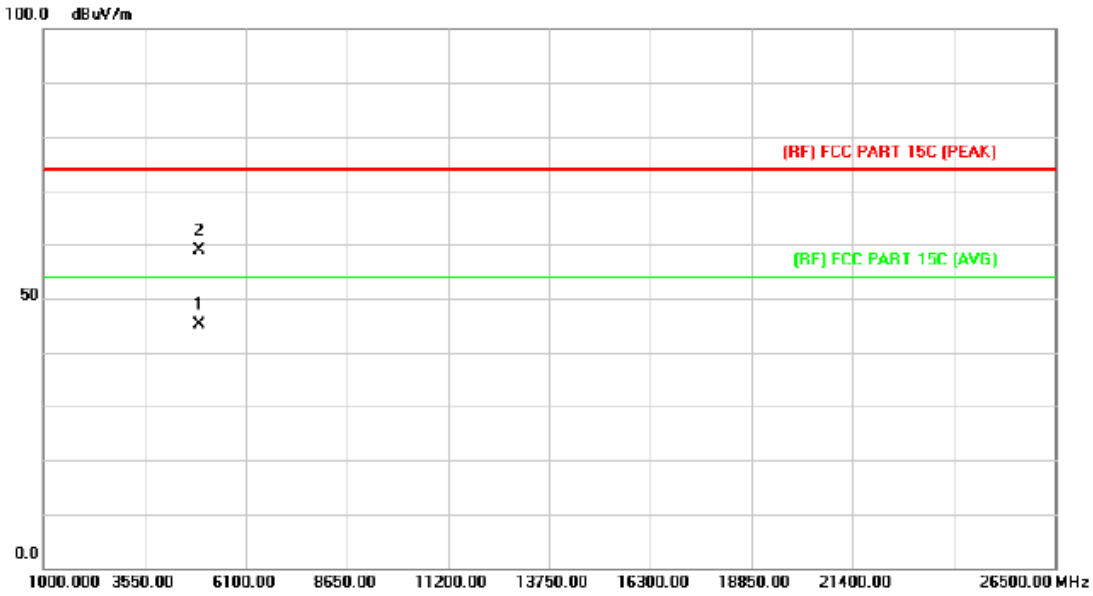
EUT:	8inch wifi cloud digital photo frame	**Model:**	JT081G-Q23
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4924.350	31.01	14.15	45.16	54.00	-8.84	AVG
2		4924.689	44.83	14.15	58.98	74.00	-15.02	peak

Emission Level= Read Level+ Correct Factor

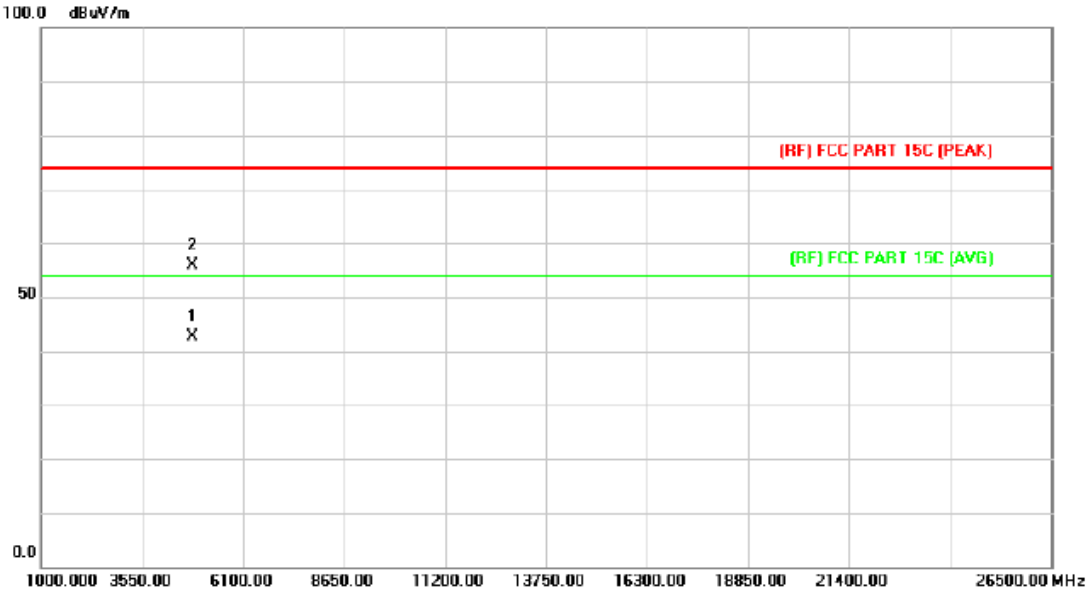
EUT:	8inch wifi cloud digital photo frame	**Model:**	JT081G-Q23
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4924.567	30.89	14.15	45.04	54.00	-8.96	AVG
2		4924.687	44.83	14.15	58.98	74.00	-15.02	peak

Emission Level= Read Level+ Correct Factor

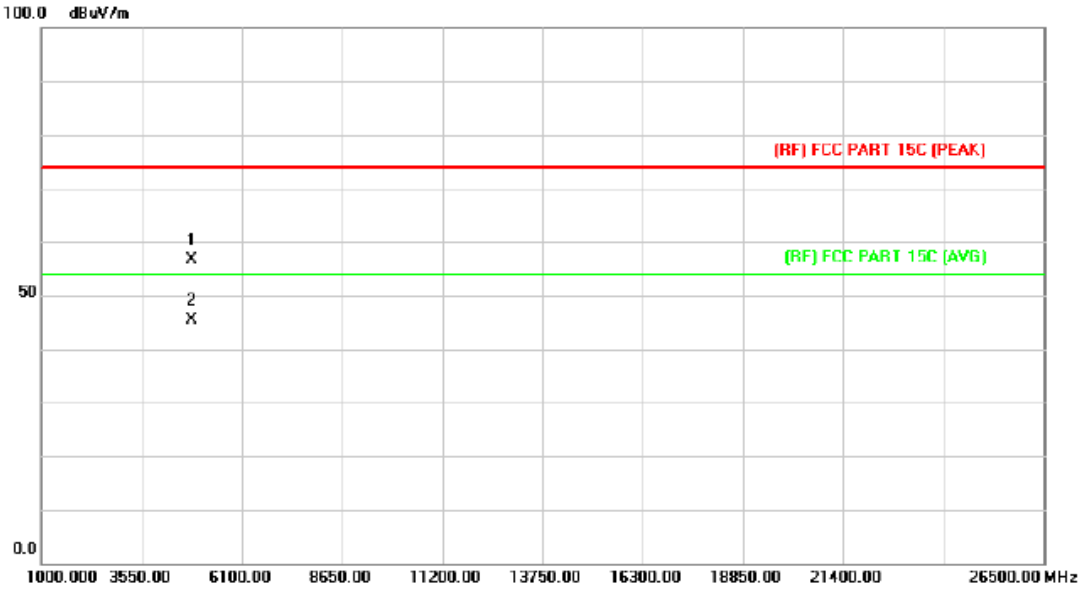
EUT:	8inch wifi cloud digital photo frame	**Model:**	JT081G-Q23
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4823.604	29.00	13.56	42.56	54.00	-11.44	AVG
2		4824.339	42.26	13.56	55.82	74.00	-18.18	peak

Emission Level= Read Level+ Correct Factor

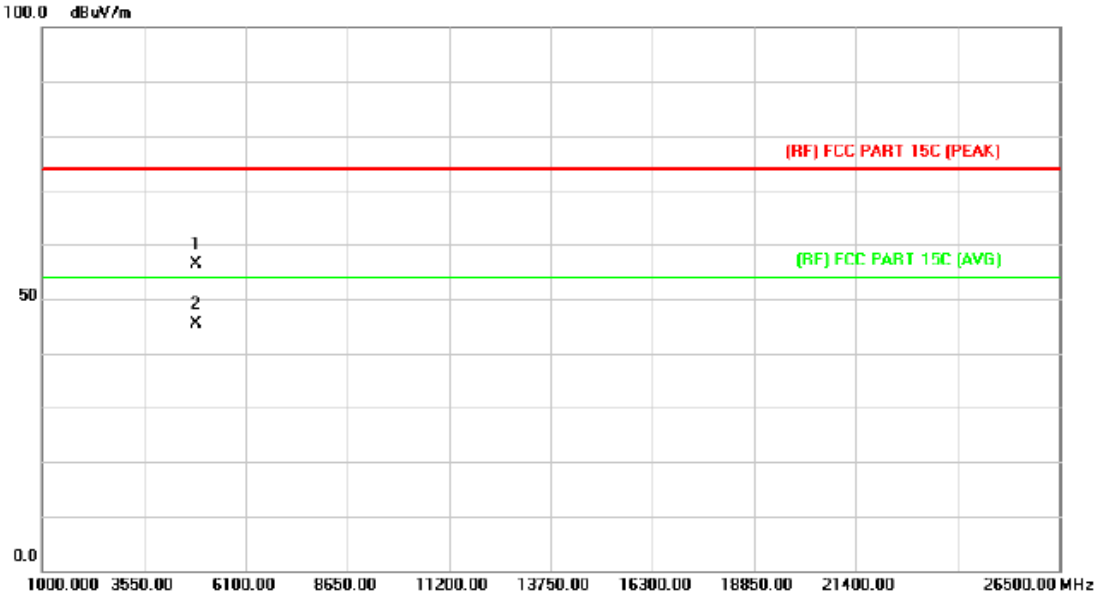
EUT:	8inch wifi cloud digital photo frame	**Model:**	JT081G-Q23
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.289	43.16	13.56	56.72	74.00	-17.28	peak
2	*	4823.697	31.76	13.56	45.32	54.00	-8.68	AVG

Emission Level= Read Level+ Correct Factor

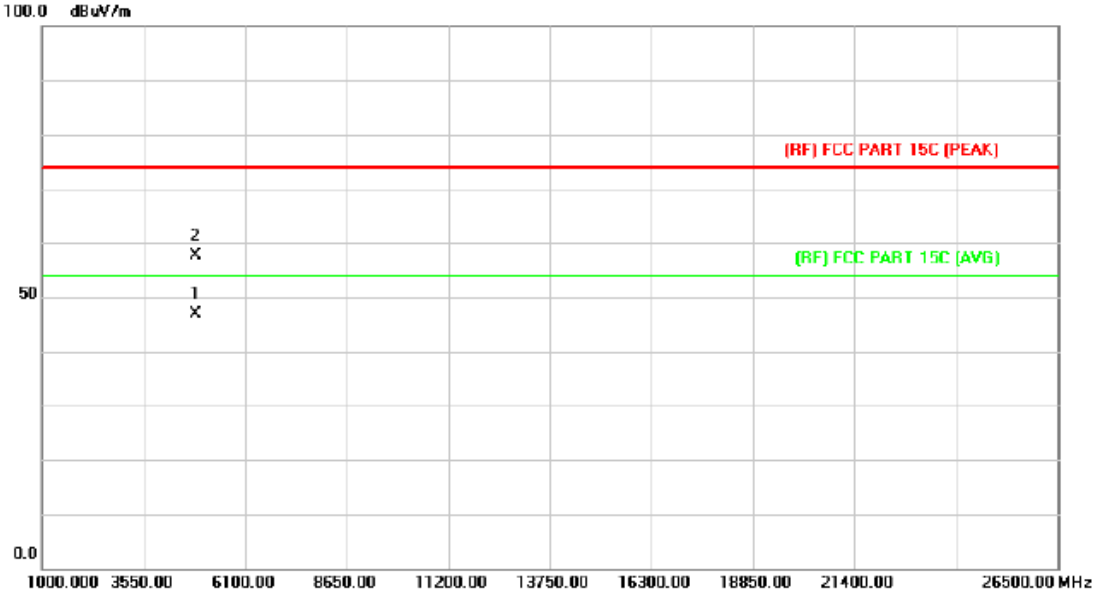
EUT:	8inch wifi cloud digital photo frame	**Model:**	JT081G-Q23
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.259	42.53	13.86	56.39	74.00	-17.61	peak
2	*	4873.986	31.50	13.86	45.36	54.00	-8.64	AVG

Emission Level= Read Level+ Correct Factor

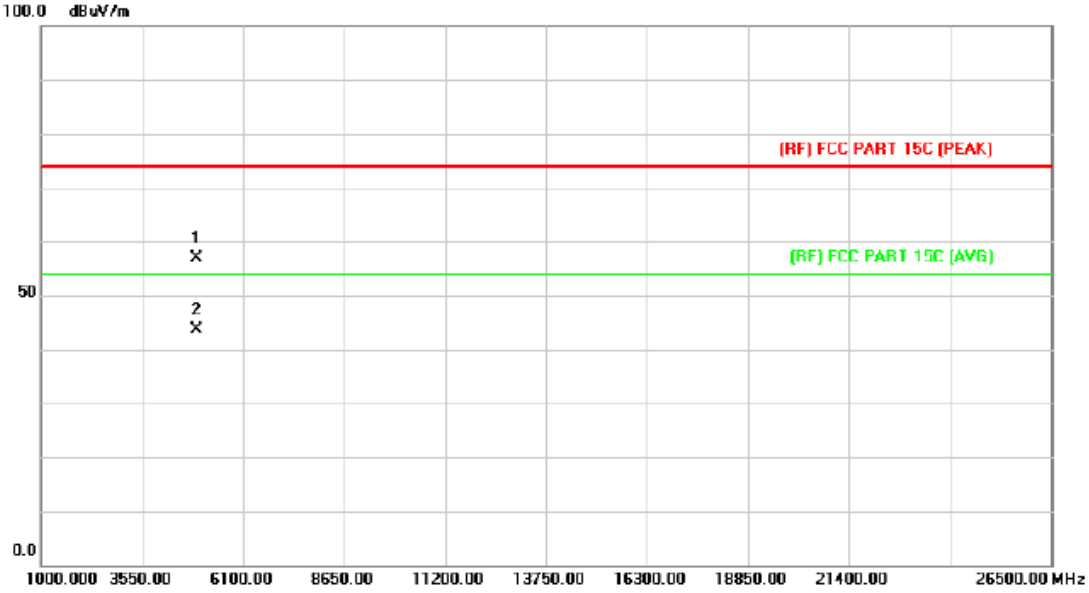
EUT:	8inch wifi cloud digital photo frame	**Model:**	JT081G-Q23
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4873.658	33.11	13.86	46.97	54.00	-7.03	AVG
2		4873.699	43.74	13.86	57.60	74.00	-16.40	peak

Emission Level= Read Level+ Correct Factor

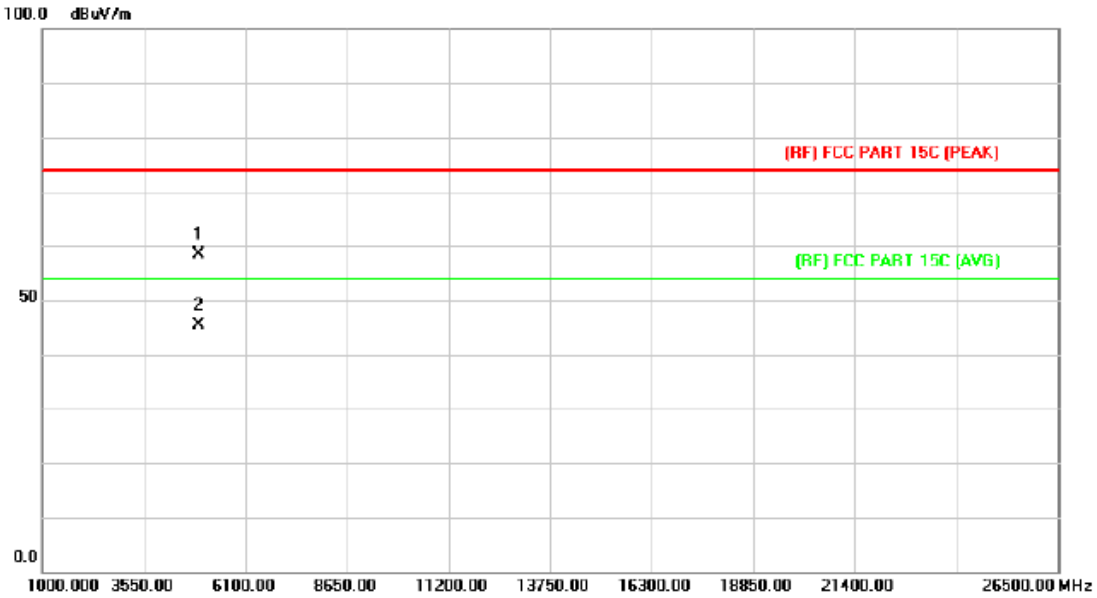
EUT:	8inch wifi cloud digital photo frame	Model:	JT081G-Q23
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.786	42.72	14.15	56.87	74.00	-17.13	peak
2	*	4923.786	29.52	14.15	43.67	54.00	-10.33	AVG

Emission Level= Read Level+ Correct Factor

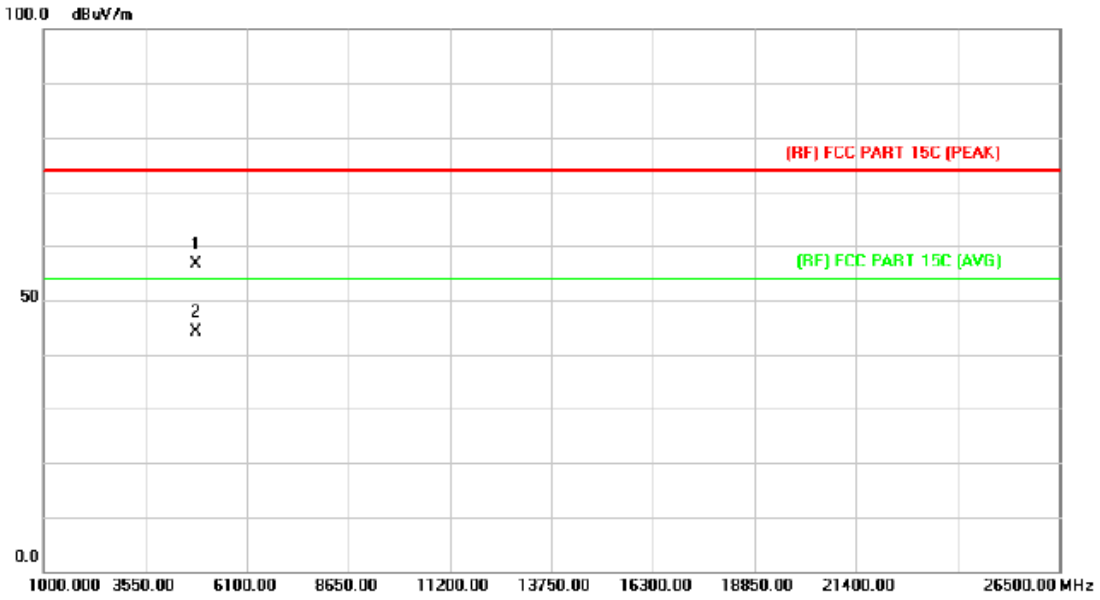
EUT:	8inch wifi cloud digital photo frame	**Model:**	JT081G-Q23
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.626	44.17	14.15	58.32	74.00	-15.68	peak
2	*	4923.626	31.24	14.15	45.39	54.00	-8.61	AVG

Emission Level= Read Level+ Correct Factor

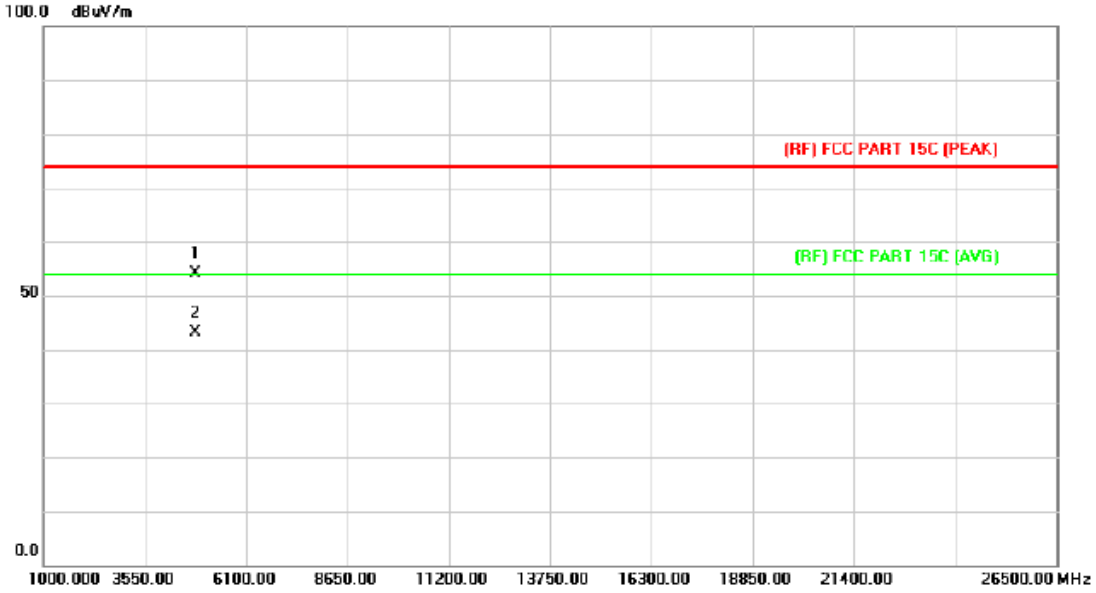
EUT:	8inch wifi cloud digital photo frame	**Model:**	JT081G-Q23
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.826	43.08	13.56	56.64	74.00	-17.36	peak
2	*	4823.826	30.45	13.56	44.01	54.00	-9.99	AVG

Emission Level= Read Level+ Correct Factor

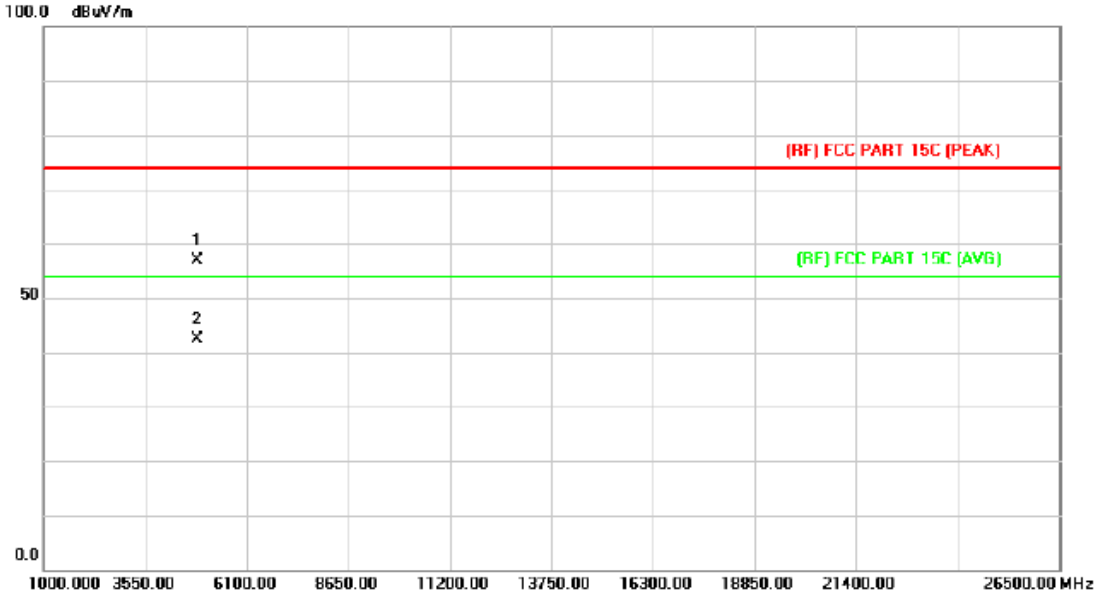
EUT:	8inch wifi cloud digital photo frame	**Model:**	JT081G-Q23
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.920	40.58	13.56	54.14	74.00	-19.86	peak
2	*	4823.920	29.45	13.56	43.01	54.00	-10.99	AVG

Emission Level= Read Level+ Correct Factor

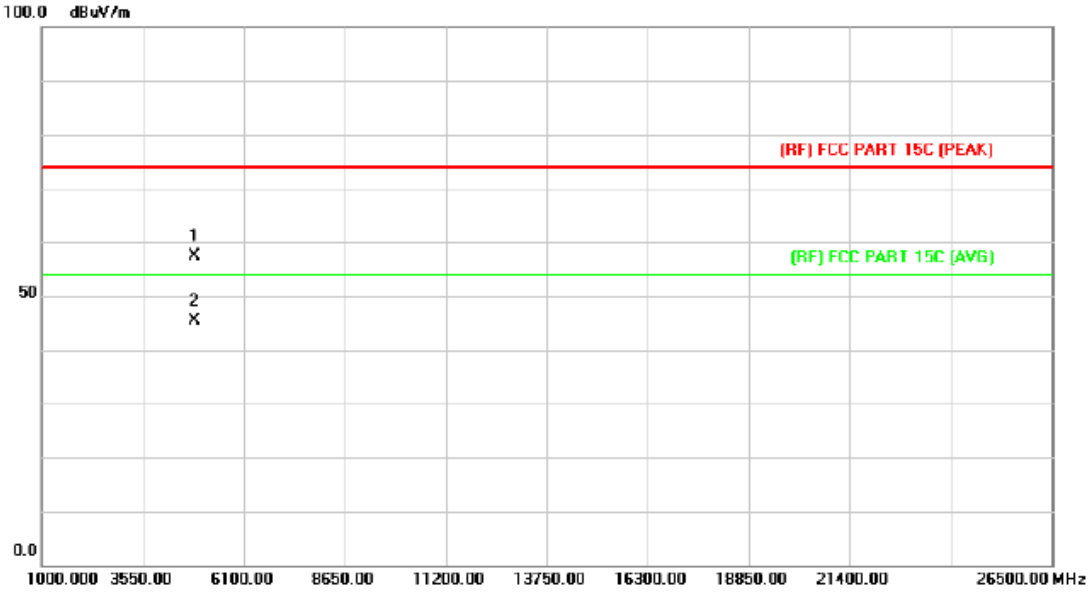
EUT:	8inch wifi cloud digital photo frame	**Model:**	JT081G-Q23
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4872.689	43.12	13.85	56.97	74.00	-17.03	peak
2	*	4873.597	28.45	13.86	42.31	54.00	-11.69	AVG

Emission Level= Read Level+ Correct Factor

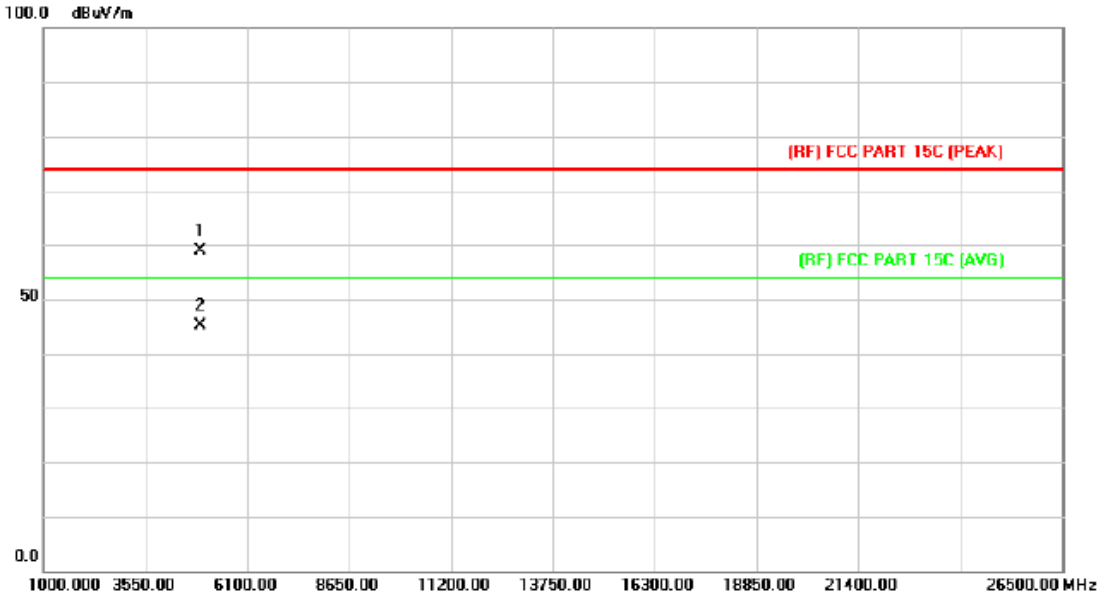
EUT:	8inch wifi cloud digital photo frame	**Model:**	JT081G-Q23
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4874.568	43.41	13.86	57.27	74.00	-16.73	peak
2	*	4875.698	31.44	13.87	45.31	54.00	-8.69	AVG

Emission Level= Read Level+ Correct Factor

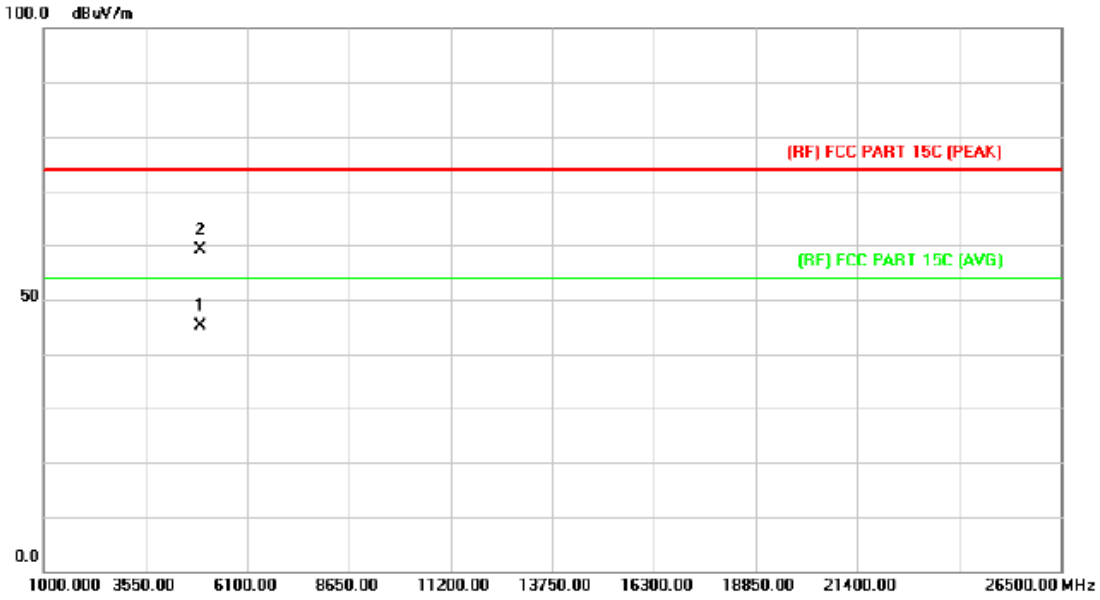
EUT:	8inch wifi cloud digital photo frame	**Model:**	JT081G-Q23
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.698	44.83	14.15	58.98	74.00	-15.02	peak
2	*	4924.023	30.89	14.15	45.04	54.00	-8.96	AVG

Emission Level= Read Level+ Correct Factor

EUT:	8inch wifi cloud digital photo frame	**Model:**	JT081G-Q23
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4924.312	30.89	14.15	45.04	54.00	-8.96	AVG
2		4924.368	44.86	14.15	59.01	74.00	-14.99	peak

Emission Level= Read Level+ Correct Factor

6. Restricted Bands Requirement

6.1 Test Standard and Limit

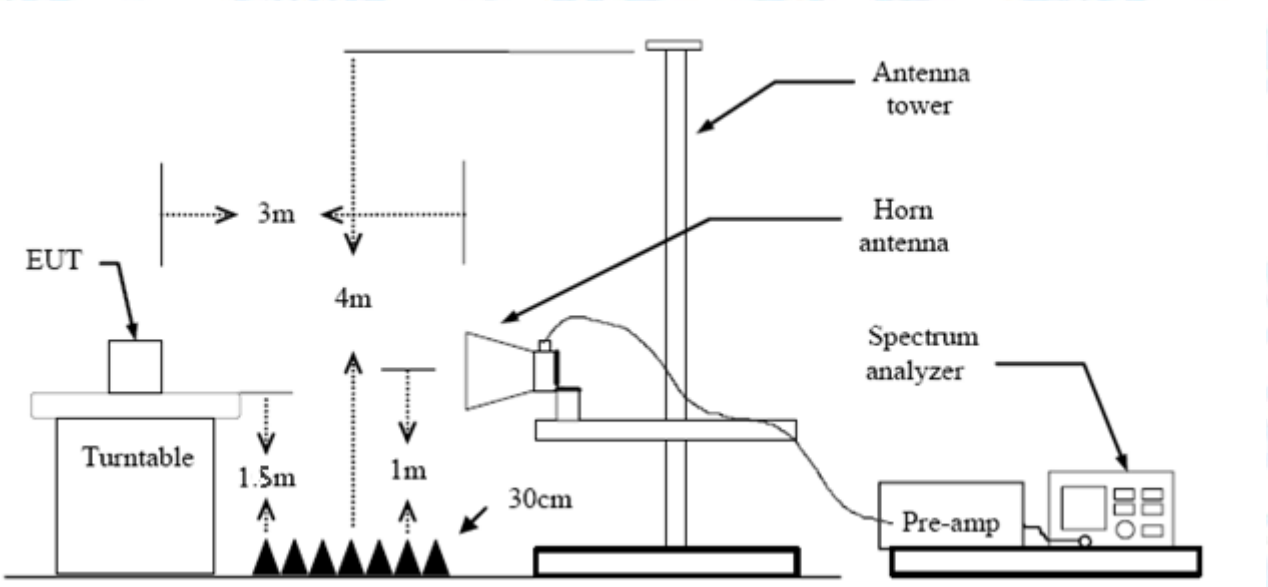
6.1.1 Test Standard

FCC Part 15.209 FCC Part 15.205

6.1.2 Test Limit

Restricted Frequency Band (MHz)	Class B (dBuV/m)(at 3 M)	
	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.

(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

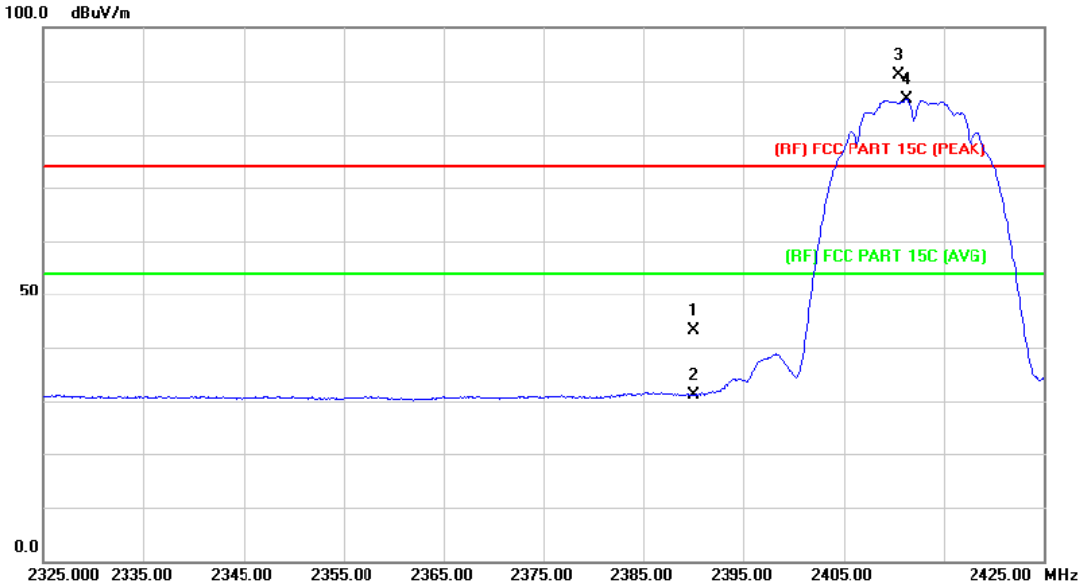
The Equipment Under Test was set to Continual Transmitting in maximum power.

6.5 Test Data

Please see the next page.

(1) Radiation Test

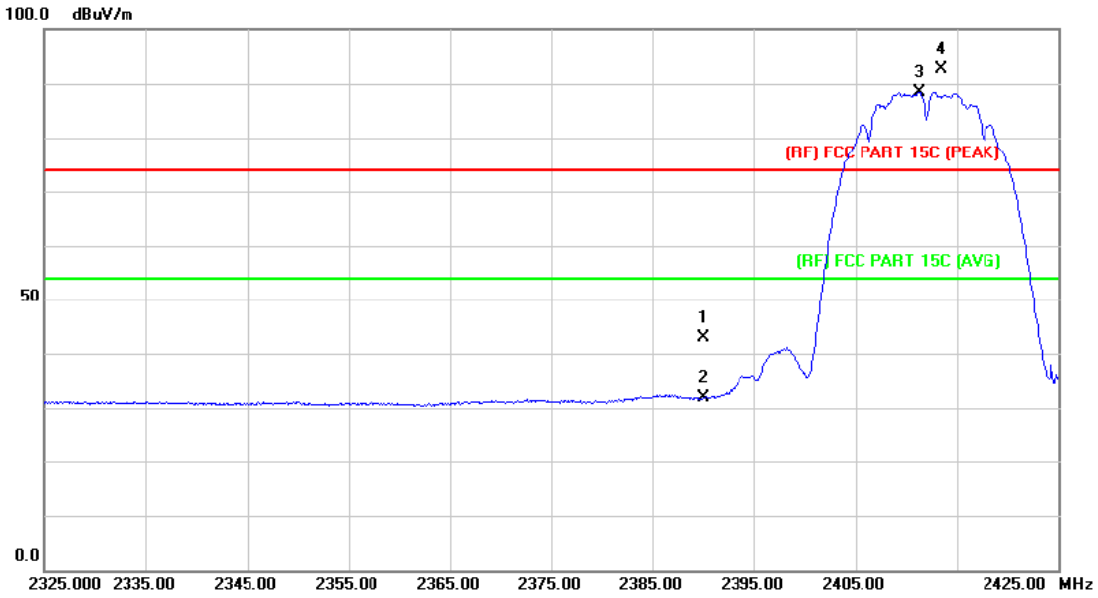
EUT:	8inch wifi cloud digital photo frame	Model:	JT081G-Q23
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	42.37	0.77	43.14	74.00	-30.86	peak
2		2390.000	30.44	0.77	31.21	54.00	-22.79	AVG
3	X	2410.600	90.33	0.86	91.19	Fundamental Frequency		peak
4	*	2411.300	85.71	0.86	86.57	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

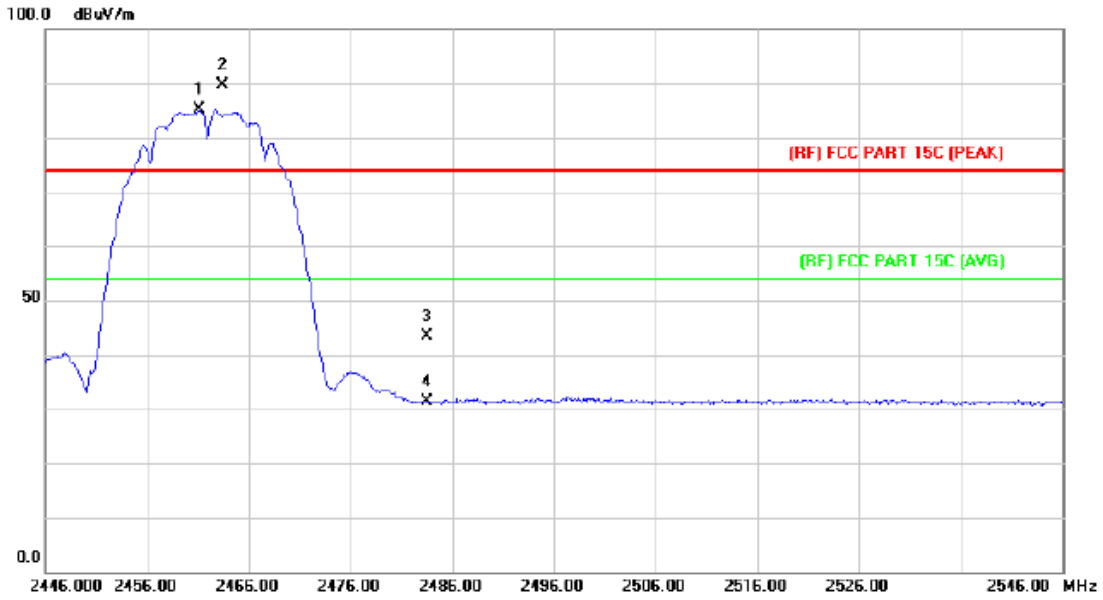
EUT:	8inch wifi cloud digital photo frame	Model:	JT081G-Q23
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	42.16	0.77	42.93	74.00	-31.07	peak
2		2390.000	31.00	0.77	31.77	54.00	-22.23	AVG
3	*	2411.300	87.59	0.86	88.45	Fundamental Frequency		AVG
4	X	2413.500	91.73	0.86	92.59	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

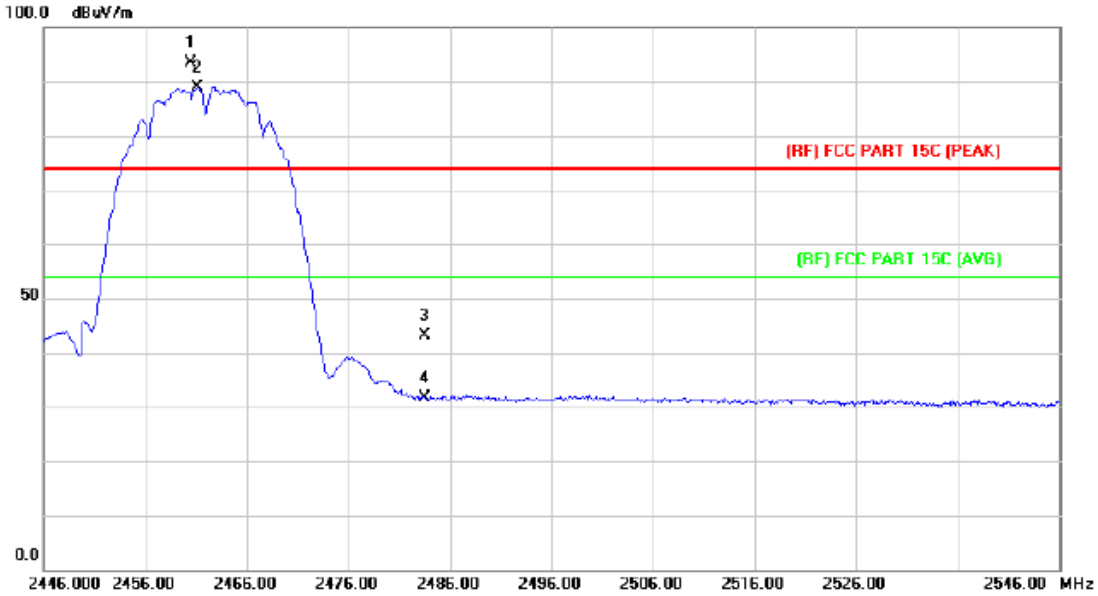
EUT:	8inch wifi cloud digital photo frame	Model:	JT081G-Q23
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2461.200	84.00	1.07	85.07	Fundamental Frequency		AVG
2	X	2463.400	88.60	1.08	89.68	Fundamental Frequency		peak
3		2483.500	42.23	1.17	43.40	74.00	-30.60	peak
4		2483.500	30.28	1.17	31.45	54.00	-22.55	AVG

Emission Level= Read Level+ Correct Factor

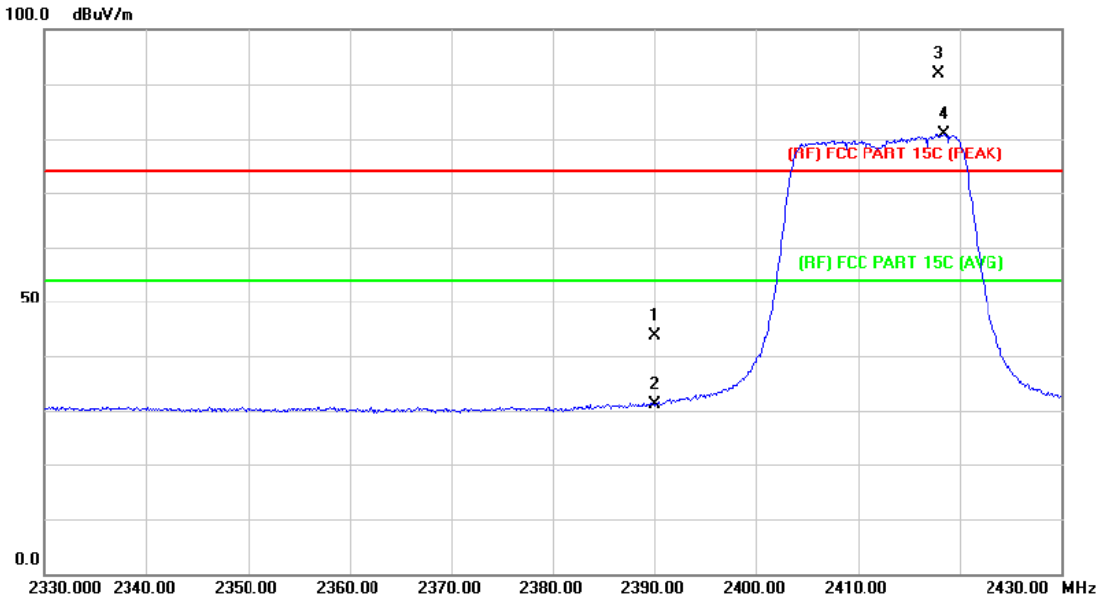
EUT:	8inch wifi cloud digital photo frame	Model:	JT081G-Q23
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2460.500	92.37	1.06	93.43	Fundamental Frequency		peak
2	*	2461.200	87.84	1.07	88.91	Fundamental Frequency		AVG
3		2483.500	41.92	1.17	43.09	74.00	-30.91	peak
4		2483.500	30.55	1.17	31.72	54.00	-22.28	AVG

Emission Level= Read Level+ Correct Factor

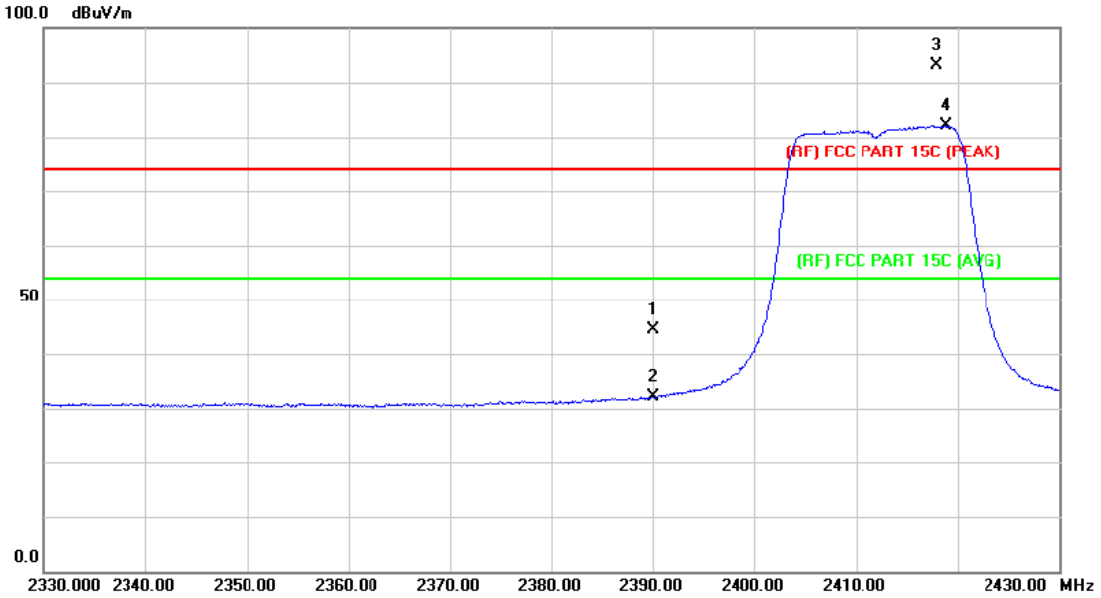
EUT:	8inch wifi cloud digital photo frame	Model:	JT081G-Q23
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	42.93	0.77	43.70	74.00	-30.30	peak
2		2390.000	30.33	0.77	31.10	54.00	-22.90	AVG
3	X	2417.900	91.04	0.89	91.93	Fundamental Frequency		peak
4	*	2418.400	80.05	0.89	80.94	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

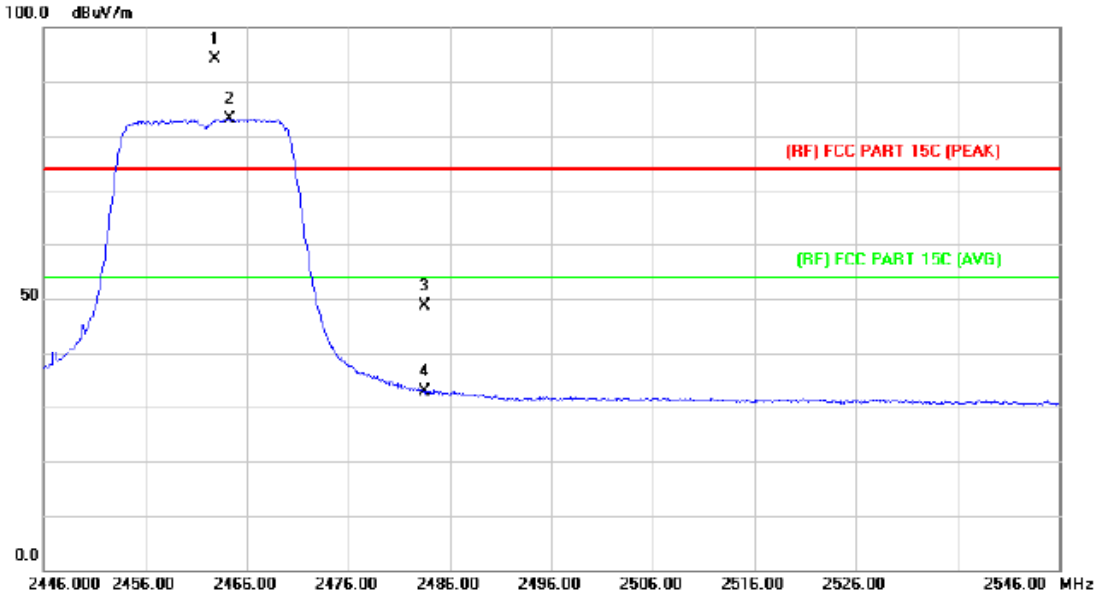
EUT:	8inch wifi cloud digital photo frame	Model:	JT081G-Q23
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	43.58	0.77	44.35	74.00	-29.65	peak
2		2390.000	31.33	0.77	32.10	54.00	-21.90	AVG
3	X	2417.900	92.18	0.89	93.07	Fundamental Frequency		peak
4	*	2418.800	81.14	0.89	82.03	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

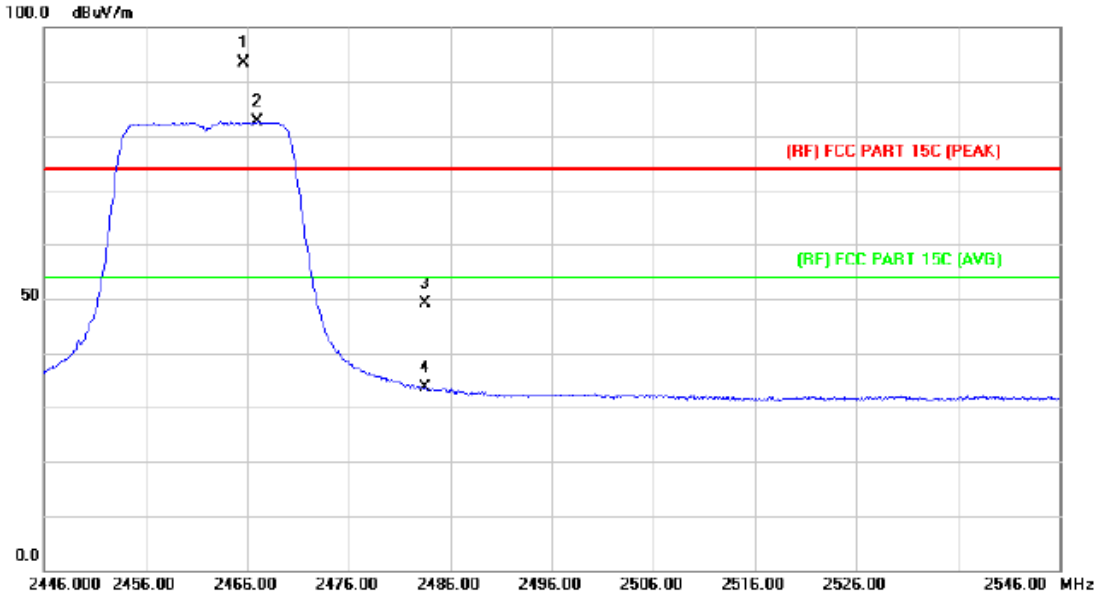
EUT:	8inch wifi cloud digital photo frame	Model:	JT081G-Q23
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2462.900	93.11	1.08	94.19	Fundamental Frequency		peak
2	*	2464.300	82.10	1.08	83.18	Fundamental Frequency		AVG
3		2483.500	47.47	1.17	48.64	74.00	-25.36	peak
4		2483.500	31.71	1.17	32.88	54.00	-21.12	AVG

Emission Level= Read Level+ Correct Factor

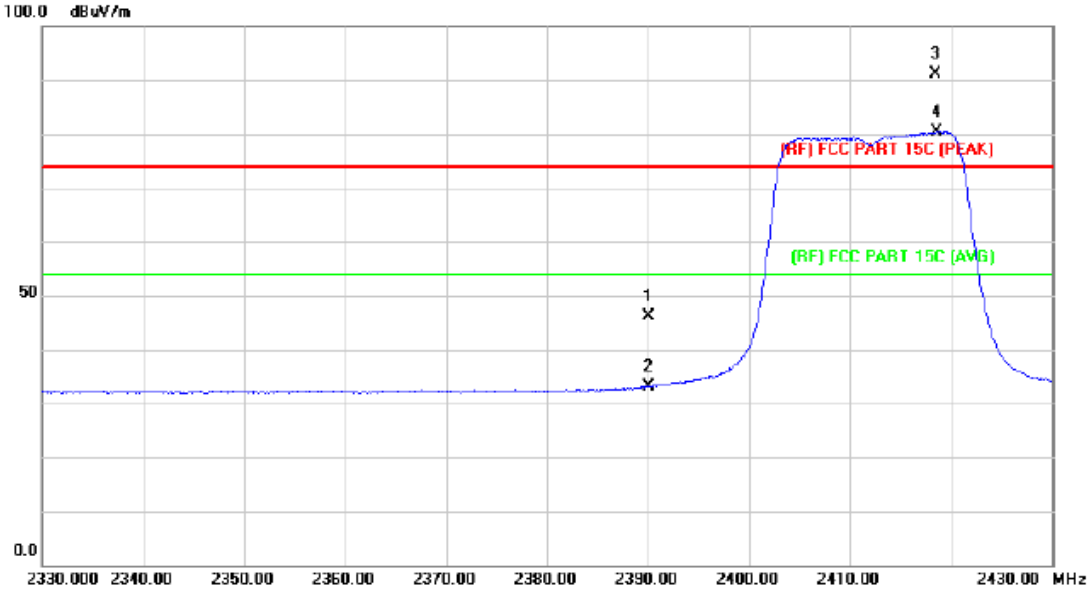
EUT:	8inch wifi cloud digital photo frame	Model:	JT081G-Q23
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2465.700	92.30	1.09	93.39	Fundamental Frequency		peak
2	*	2467.000	81.50	1.10	82.60	Fundamental Frequency		AVG
3		2483.500	47.99	1.17	49.16	74.00	-24.84	peak
4		2483.500	32.58	1.17	33.75	54.00	-20.25	AVG

Emission Level= Read Level+ Correct Factor

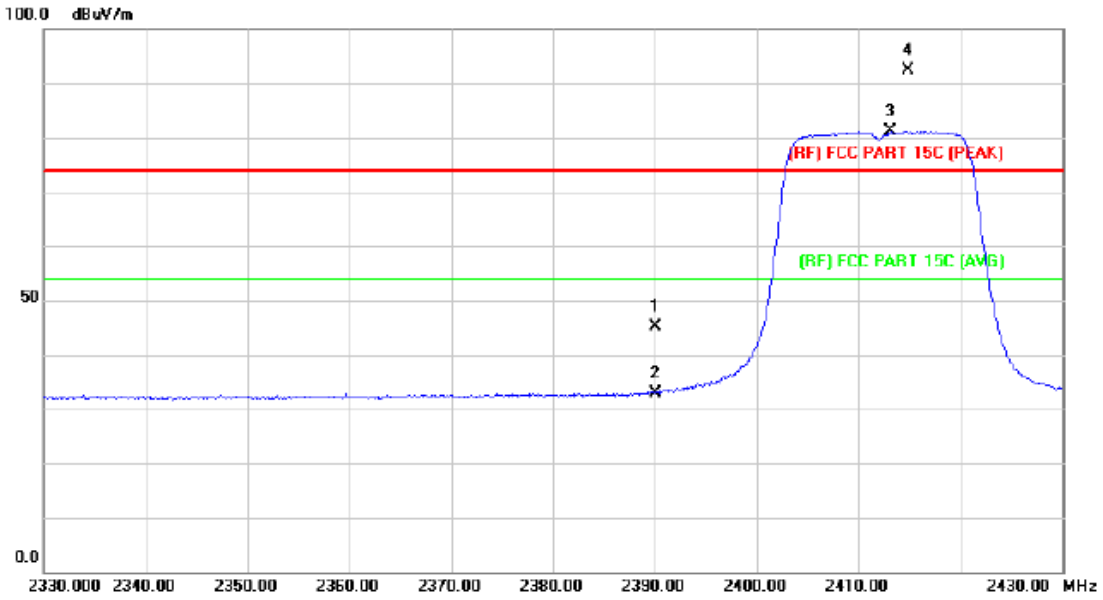
EUT:	8inch wifi cloud digital photo frame	Model:	JT081G-Q23
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	45.28	0.77	46.05	74.00	-27.95	peak
2		2390.000	32.42	0.77	33.19	54.00	-20.81	AVG
3	X	2418.500	90.35	0.89	91.24	Fundamental Frequency		peak
4	*	2418.600	79.49	0.89	80.38	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

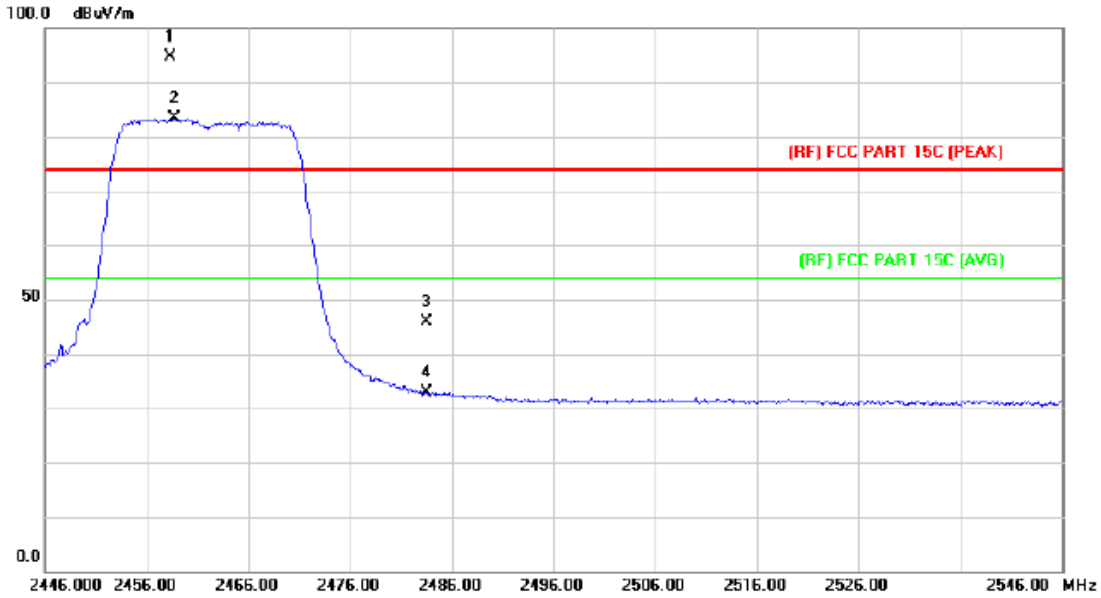
EUT:	8inch wifi cloud digital photo frame	**Model:**	JT081G-Q23
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	44.24	0.77	45.01	74.00	-28.99	peak
2		2390.000	32.23	0.77	33.00	54.00	-21.00	AVG
3	*	2413.200	80.36	0.86	81.22	Fundamental Frequency		AVG
4	X	2414.800	91.40	0.88	92.28	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

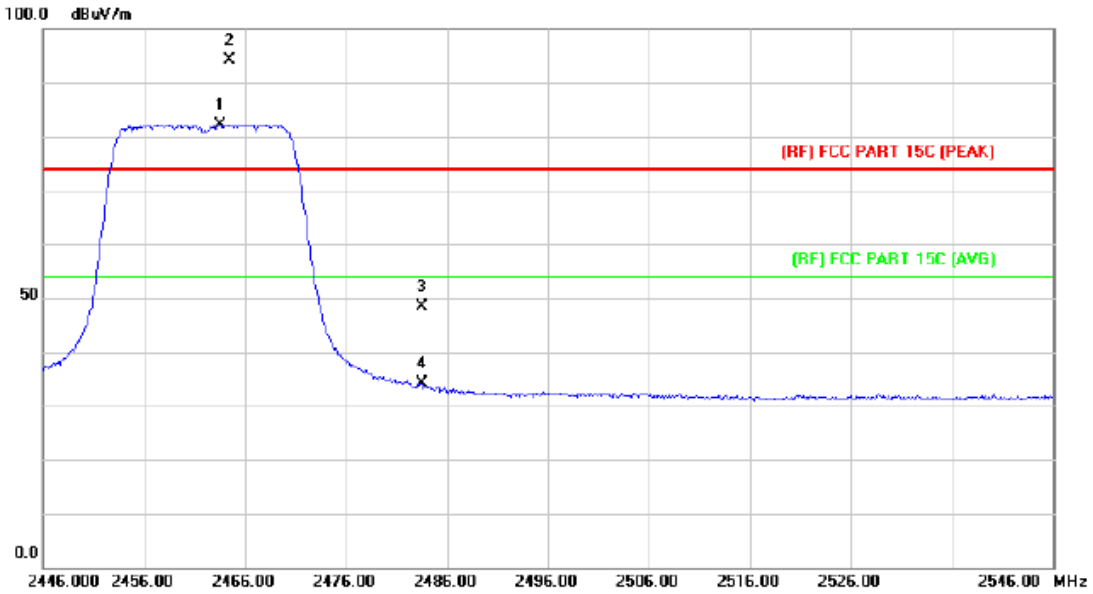
EUT:	8inch wifi cloud digital photo frame	Model:	JT081G-Q23
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2458.300	93.56	1.06	94.62	Fundamental Frequency		peak
2	*	2458.700	82.28	1.06	83.34	Fundamental Frequency		AVG
3		2483.500	44.79	1.17	45.96	74.00	-28.04	peak
4		2483.500	31.65	1.17	32.82	54.00	-21.18	AVG

Emission Level= Read Level+ Correct Factor

EUT:	8inch wifi cloud digital photo frame	Model:	JT081G-Q23
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2462MHz		
Remark:	N/A		

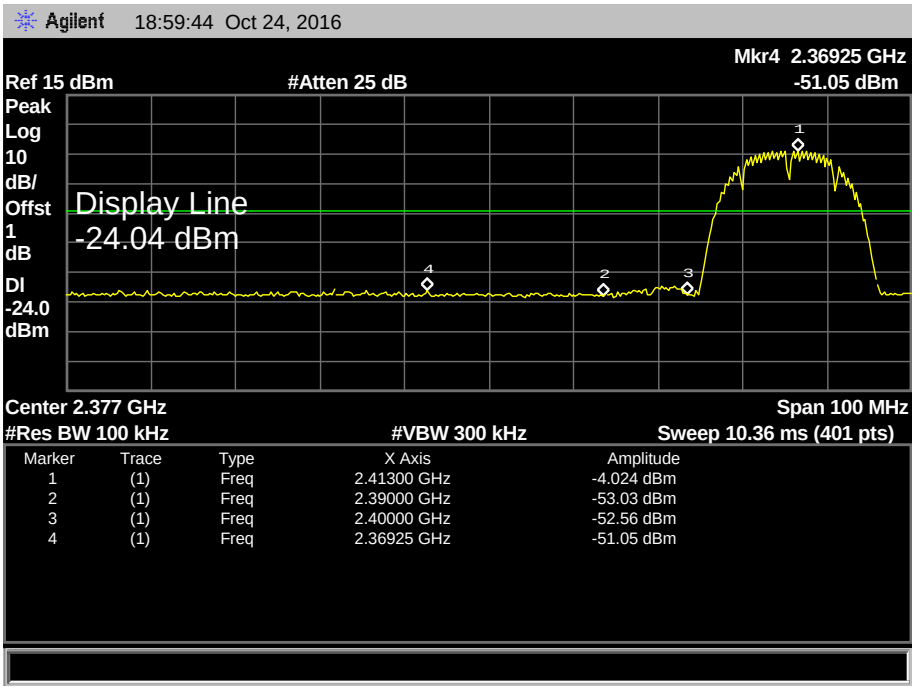


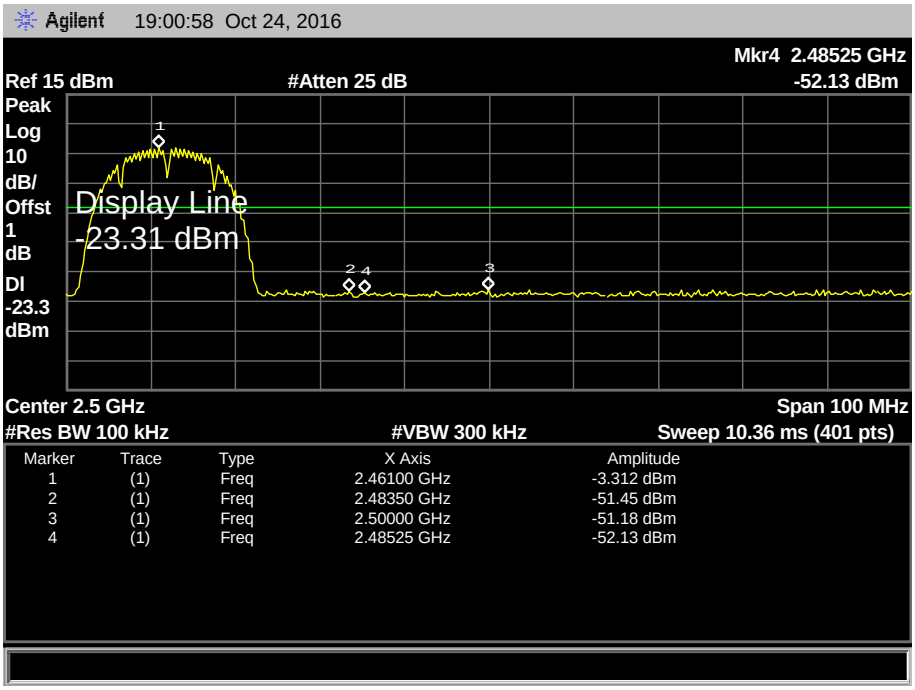
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2463.500	81.15	1.08	82.23	Fundamental Frequency		AVG
2	X	2464.400	93.14	1.08	94.22	Fundamental Frequency		peak
3		2483.500	47.25	1.17	48.42	74.00	-25.58	peak
4		2483.500	32.92	1.17	34.09	54.00	-19.91	AVG

Emission Level= Read Level+ Correct Factor

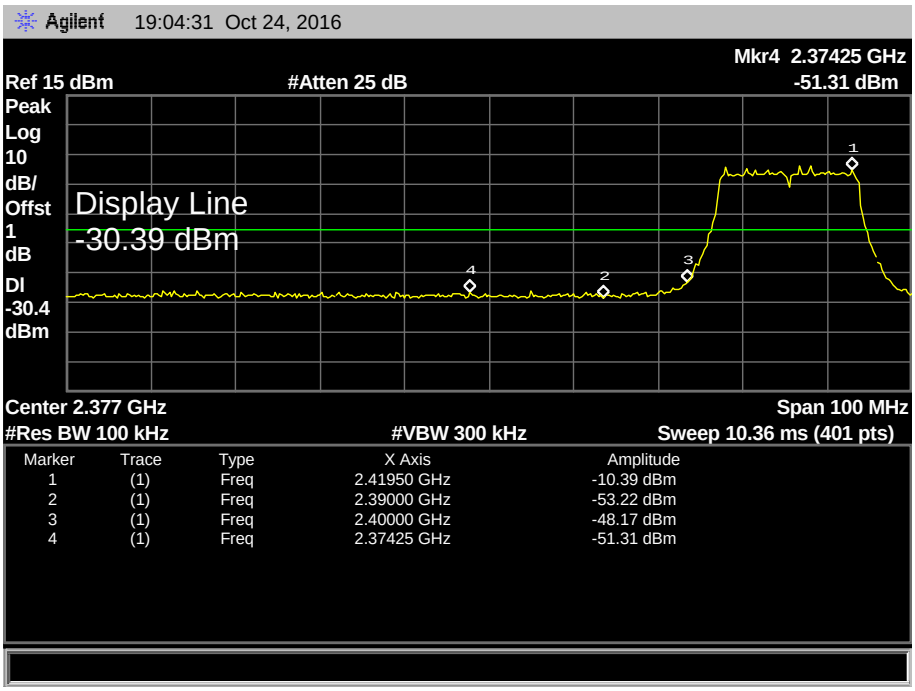
(2) Conducted Test

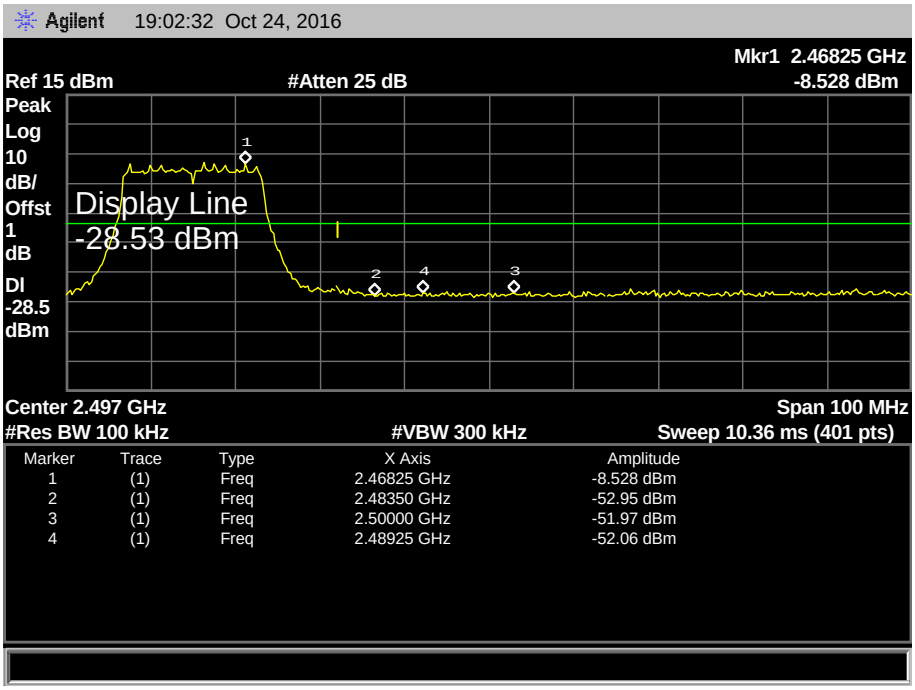
EUT:	8inch wifi cloud digital photo frame	Model:	JT081G-Q23
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC120V/60HZ		
Test Mode:	TX B Mode 2412MHz / TX B Mode 2462MHz		
Remark:	The EUT is programed in continuously transmitting mode		



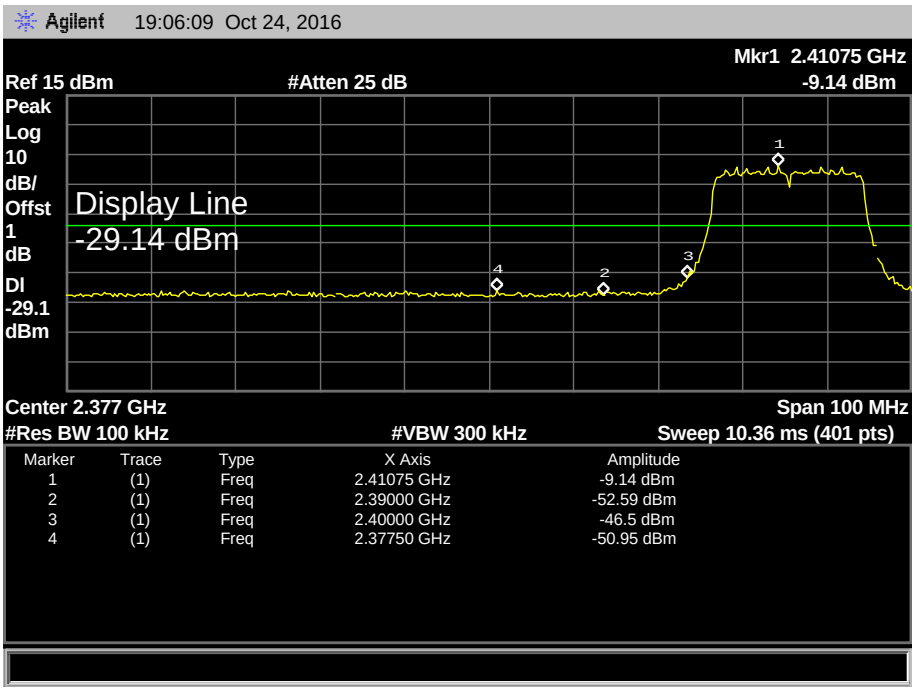


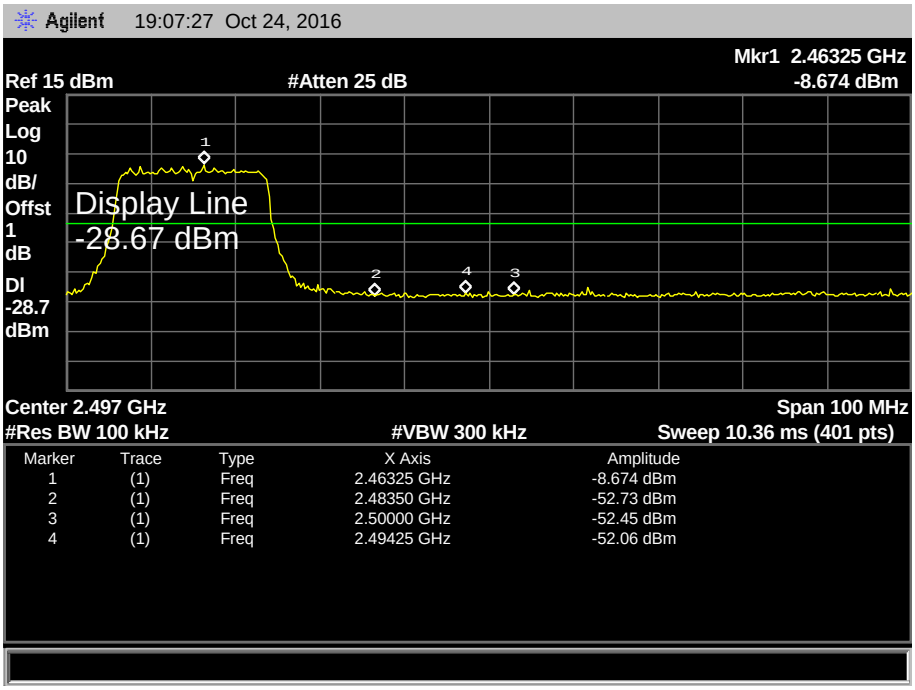
EUT:	8inch wifi cloud digital photo frame	**Model:**	JT081G-Q23
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC120V/60HZ		
Test Mode:	TX G Mode 2412MHz / TX G Mode 2462MHz		
Remark:	The EUT is programed in continuously transmitting mode		





EUT:	8inch wifi cloud digital photo frame	**Model:**	JT081G-Q23
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC120V/60HZ		
Test Mode:	TX N(HT20) Mode 2412MHz / TX N(HT20) Mode 2462MHz		
Remark:	The EUT is programed in continuously transmitting mode		





7. Bandwidth Test

7.1 Test Standard and Limit

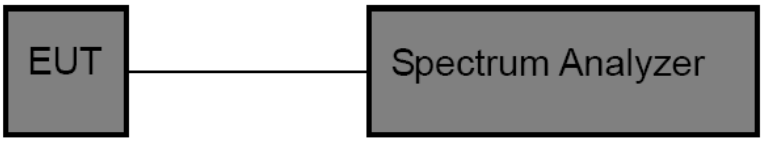
7.1.1 Test Standard

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.

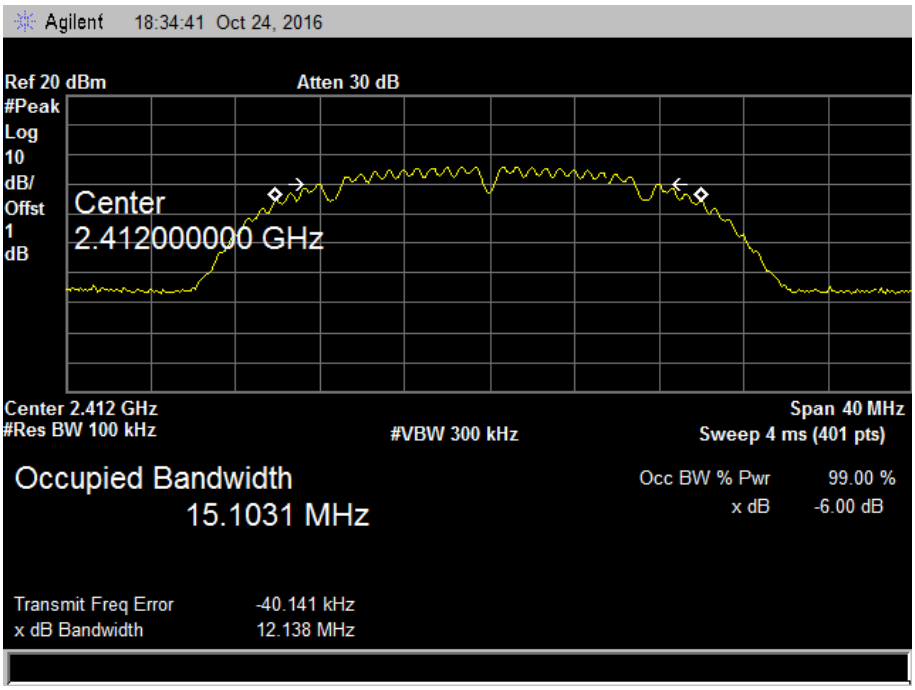
7.5 Test Data

EUT:	8inch wifi cloud digital photo frame	Model:	JT081G-Q23
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC120V/60HZ		
Test Mode:	TX 802.11B Mode		

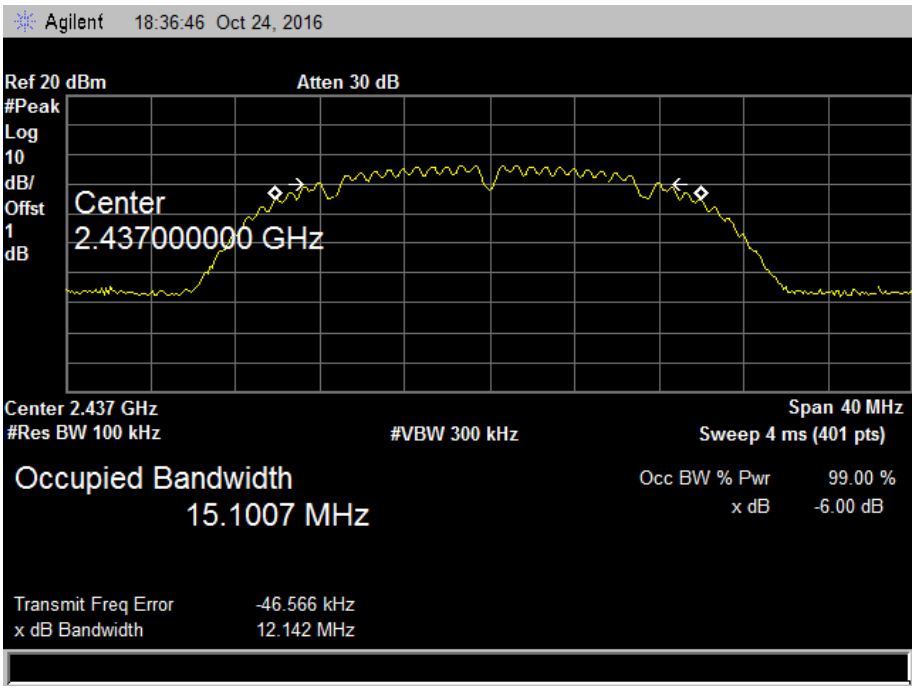
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	12.138	15.1031	>=0.5
2437	12.142	15.1007	
2462	12.340	15.5172	

802.11B Mode

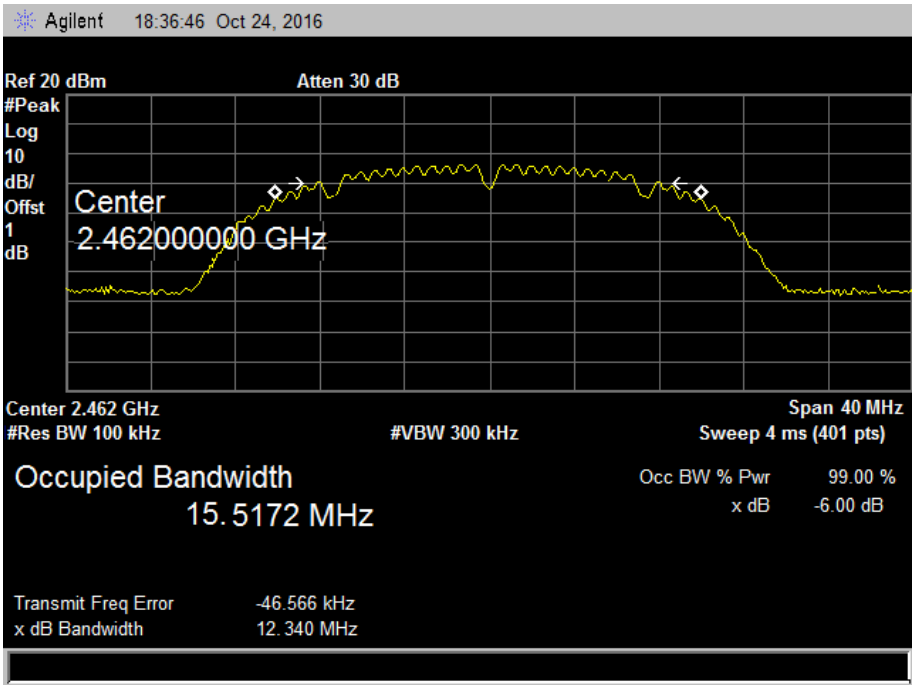
2412 MHz



802.11B Mode
2437 MHz



802.11B Mode
2462 MHz

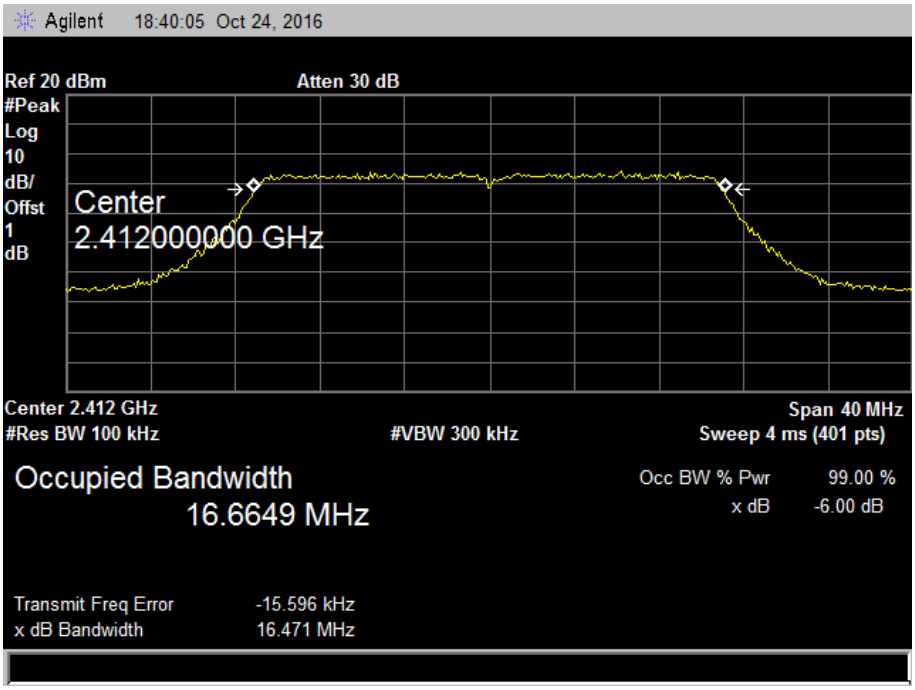


EUT:	8inch wifi cloud digital photo frame	Model:	JT081G-Q23
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC120V/60HZ		
Test Mode:	TX 802.11G Mode		

Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	16.471	16.6649	>=0.5
2437	16.474	16.6544	
2462	16.533	16.6760	

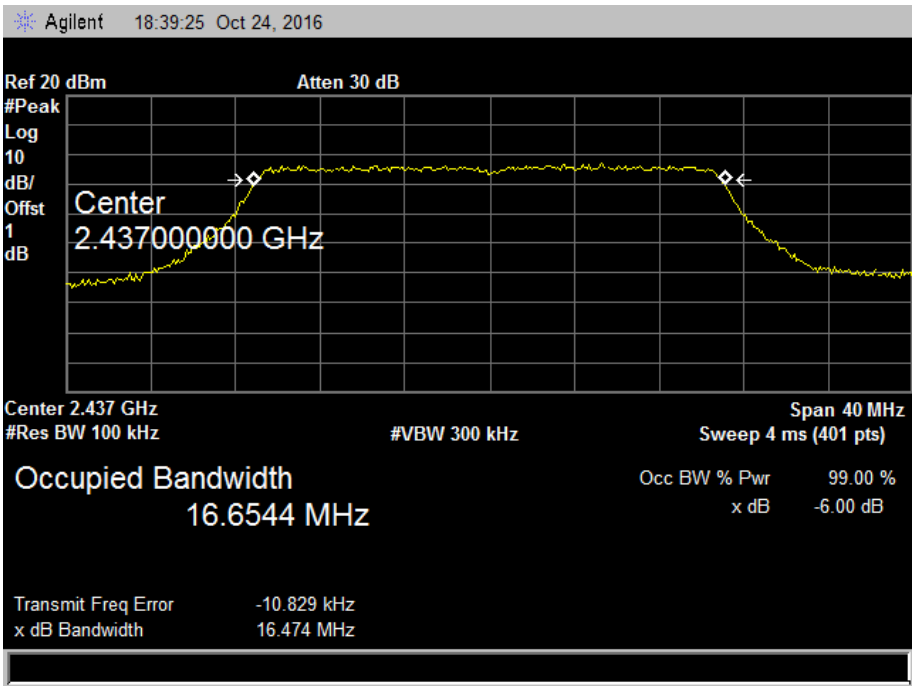
802.11G Mode

2412 MHz



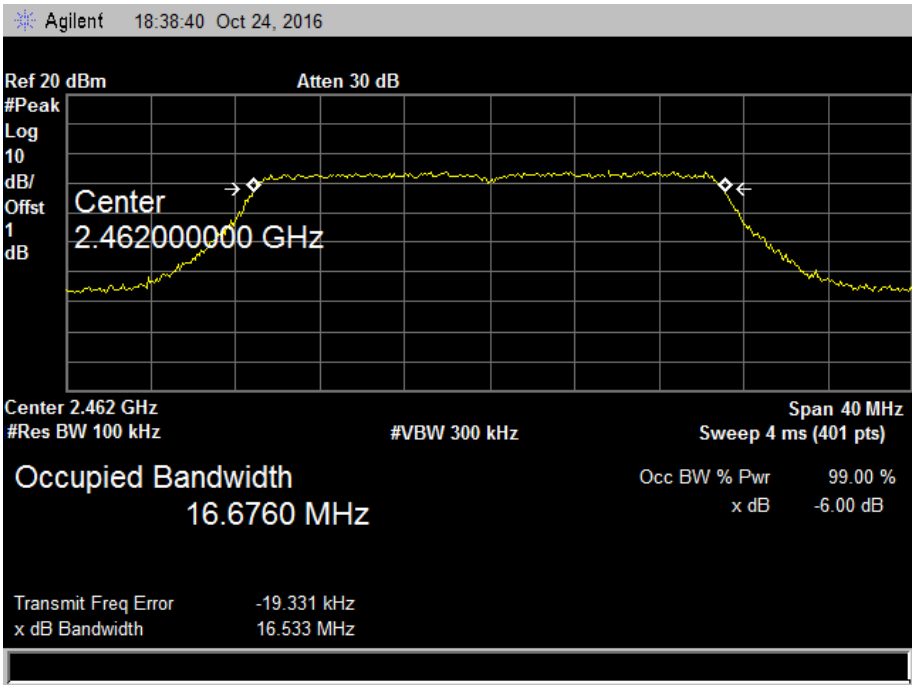
802.11G Mode

2437 MHz



802.11G Mode

2462 MHz

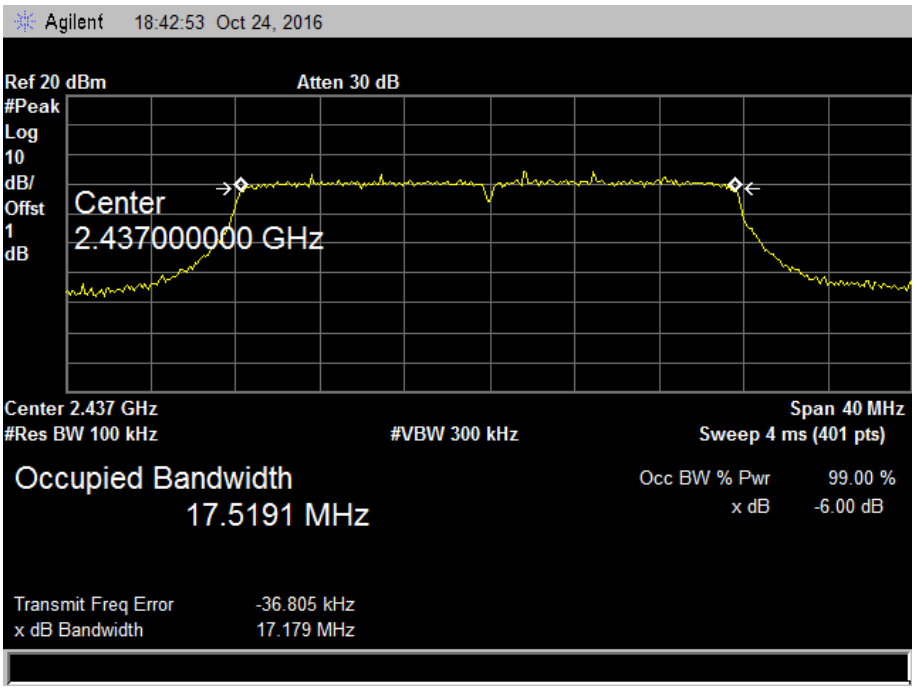


EUT:	8inch wifi cloud digital photo frame	Model:	JT081G-Q23
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC120V/60HZ		
Test Mode:	TX 802.11N(HT20) Mode		

Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	17.179	17.5191	>=0.5
2437	17.179	17.5174	
2462	17.340	17.5172	

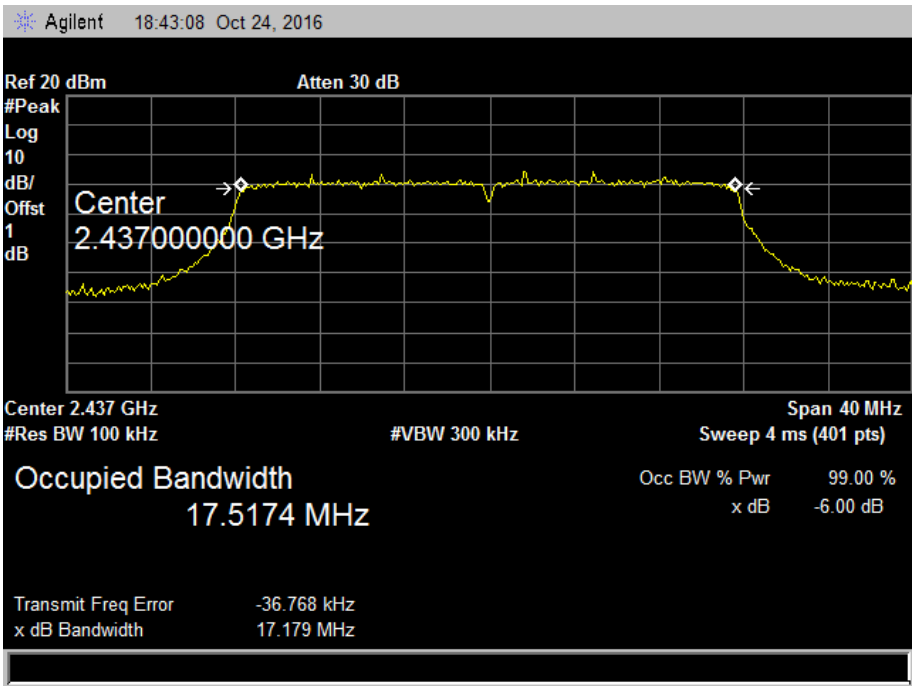
802.11N(HT20) Mode

2412 MHz



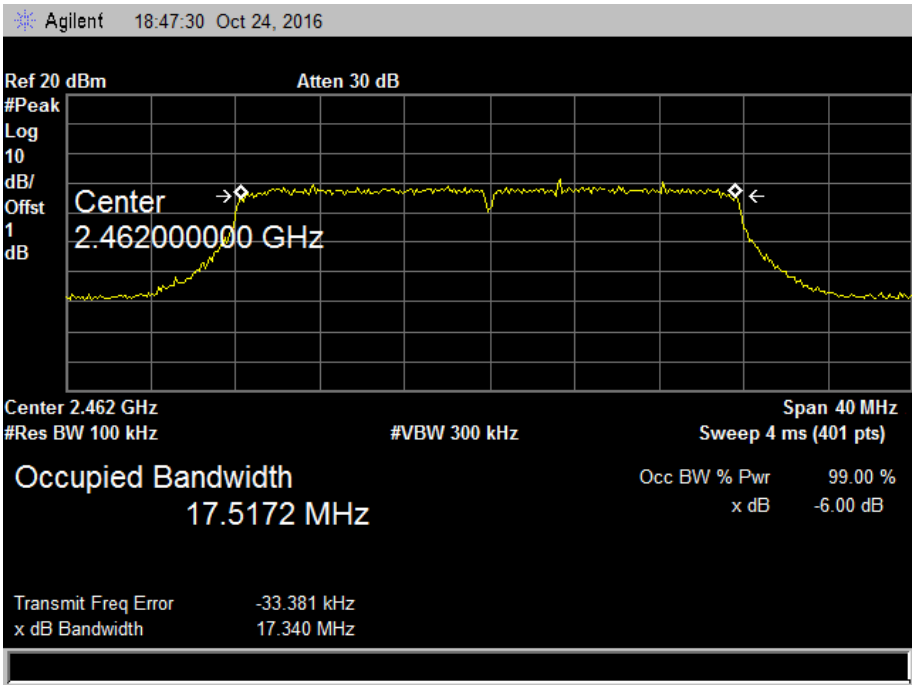
802.11N(HT20) Mode

2437 MHz



802.11N(HT20) Mode

2462 MHz



8. Peak Output Power Test

8.1 Test Standard and Limit

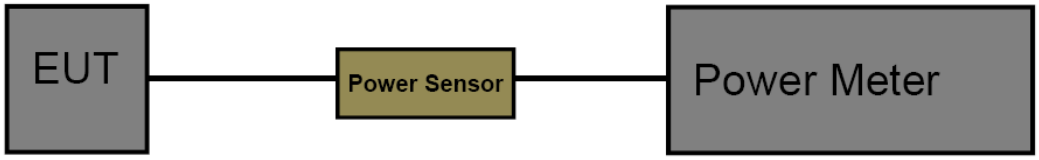
8.1.1 Test Standard

FCC Part 15.247 (b)

8.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/RSS-210		
Test Item	**Limit**	**Frequency Range(MHz)**
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 v03r05.
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.

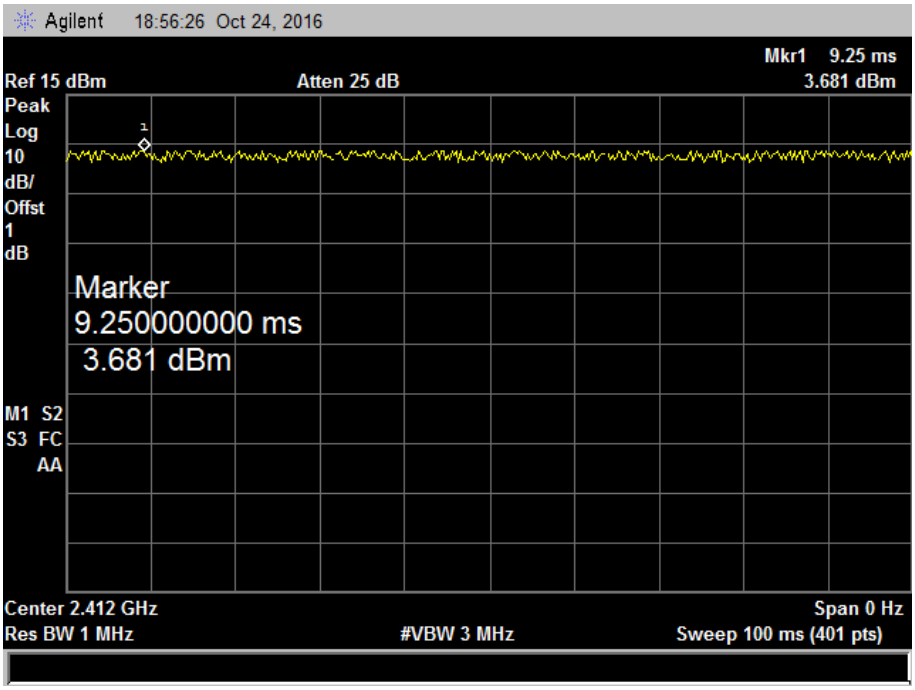
8.5 Test Data

EUT:	8inch wifi cloud digital photo frame	Model:	JT081G-Q23
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC120V/60HZ		

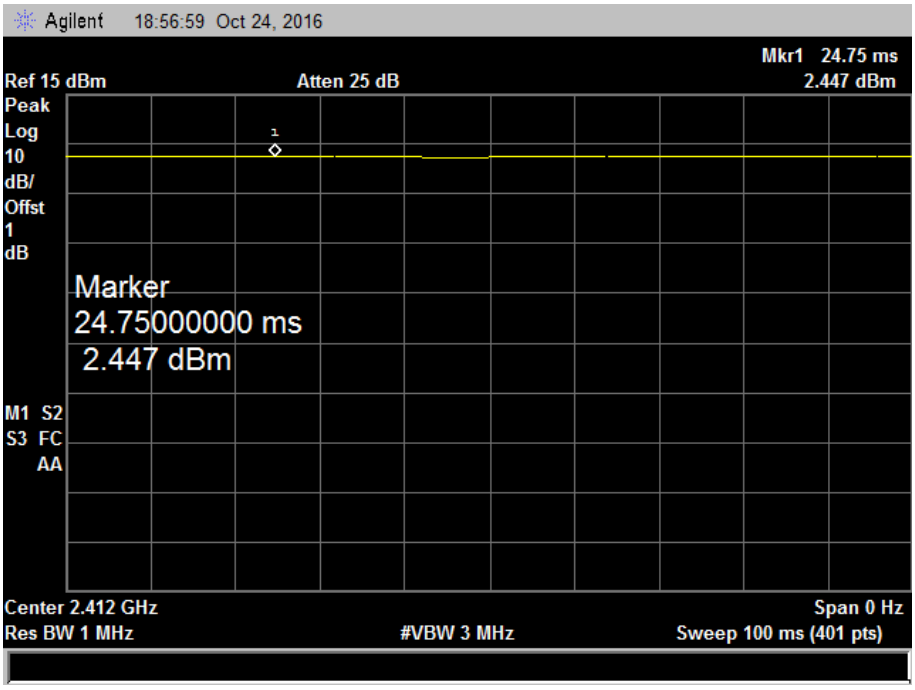
Mode	Channel frequency (MHz)	Test Result (dBm)	Limit (dBm)
802.11b	2412	9.09	30
	2437	8.97	
	2462	8.68	
802.11g	2412	8.88	
	2437	8.77	
	2462	8.85	
802.11n (HT20)	2412	7.94	
	2437	7.86	
	2462	7.56	
Result： PASS			

Duty Cycle		
Mode	Channel frequency (MHz)	Test Result
802.11b	2412	>98%
	2437	
	2462	
802.11g	2412	
	2437	
	2462	
802.11n (HT20)	2412	
	2437	
	2462	
Please see below plots		

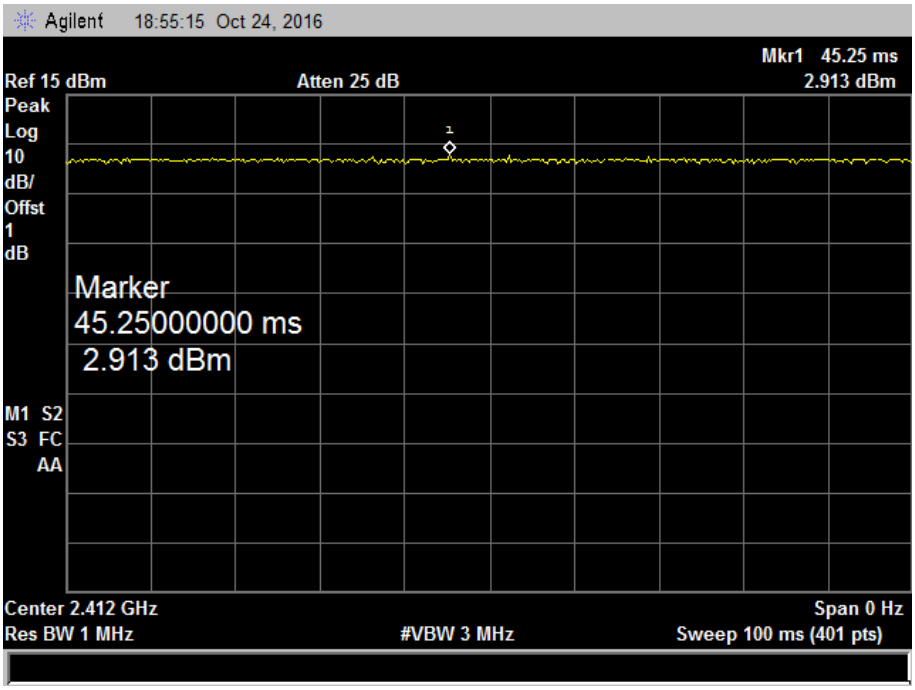
802.11 B Mode 2412 MHz



802.11 G Mode 2412 MHz



802.11 N(HT20) Mode 2412 MHz



9. Power Spectral Density Test

9.1 Test Standard and Limit

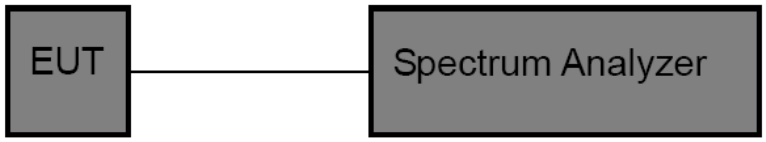
9.1.1 Test Standard

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 v03r05.

(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.

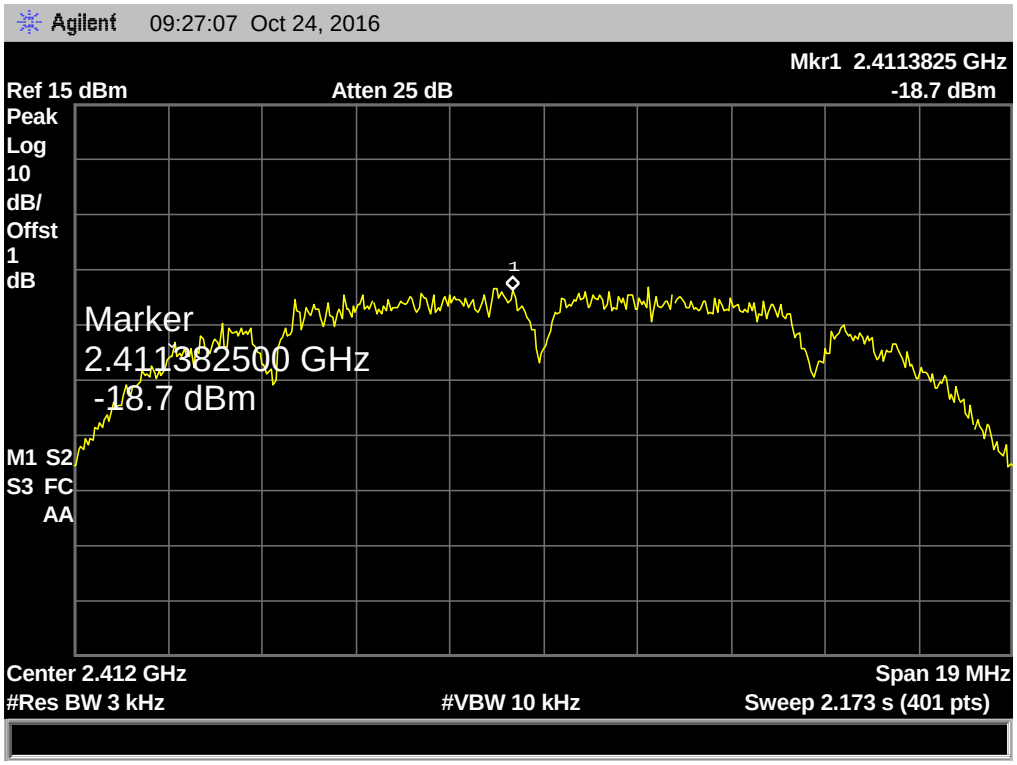
9.5 Test Data

EUT:	8inch wifi cloud digital photo frame	Model:	JT081G-Q23
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC120V/60HZ		
Test Mode:	TX 802.11B Mode		

Channel Frequency (MHz)	Power Density (3 kHz/dBm)	Limit (dBm)
2412	-18.70	8
2437	-18.67	
2462	-19.11	

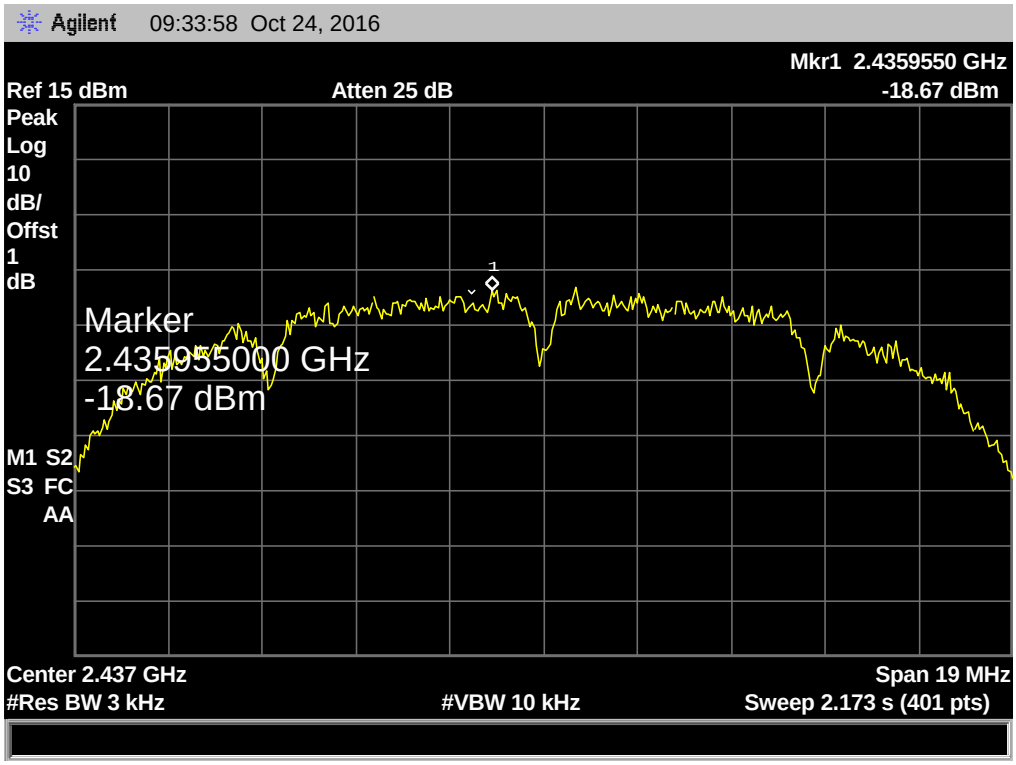
802.11B Mode

2412 MHz



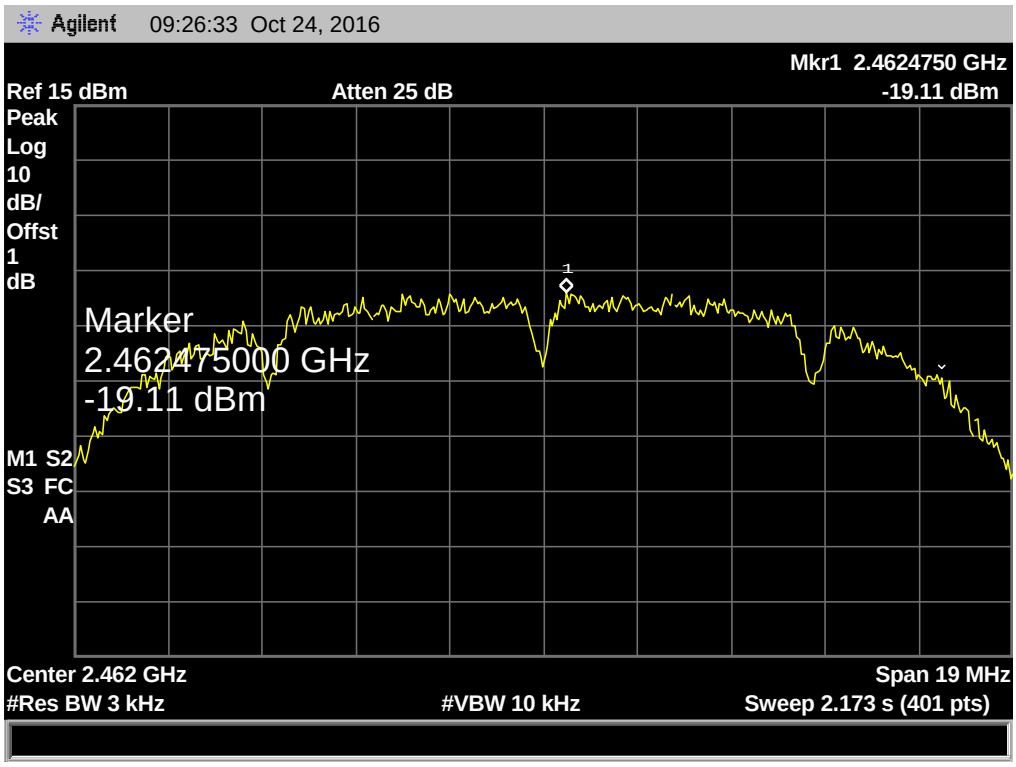
802.11B Mode

2437 MHz



802.11B Mode

2462 MHz

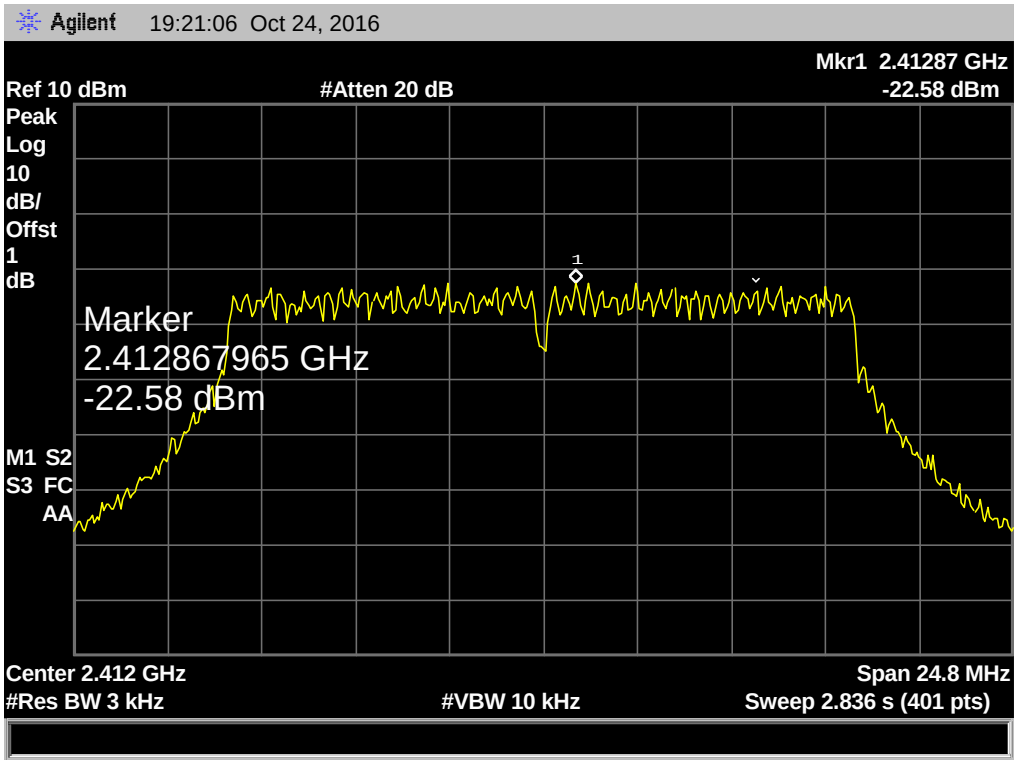


EUT:	8inch wifi cloud digital photo frame	Model:	JT081G-Q23
Temperature:	25 ℃	Temperature:	25 ℃
Test Voltage:	AC120V/60HZ		
Test Mode:	TX 802.11G Mode		

Channel Frequency (MHz)	Power Density (3 kHz/dBm)	Limit (dBm)
2412	-22.58	8
2437	-18.70	
2462	-21.82	

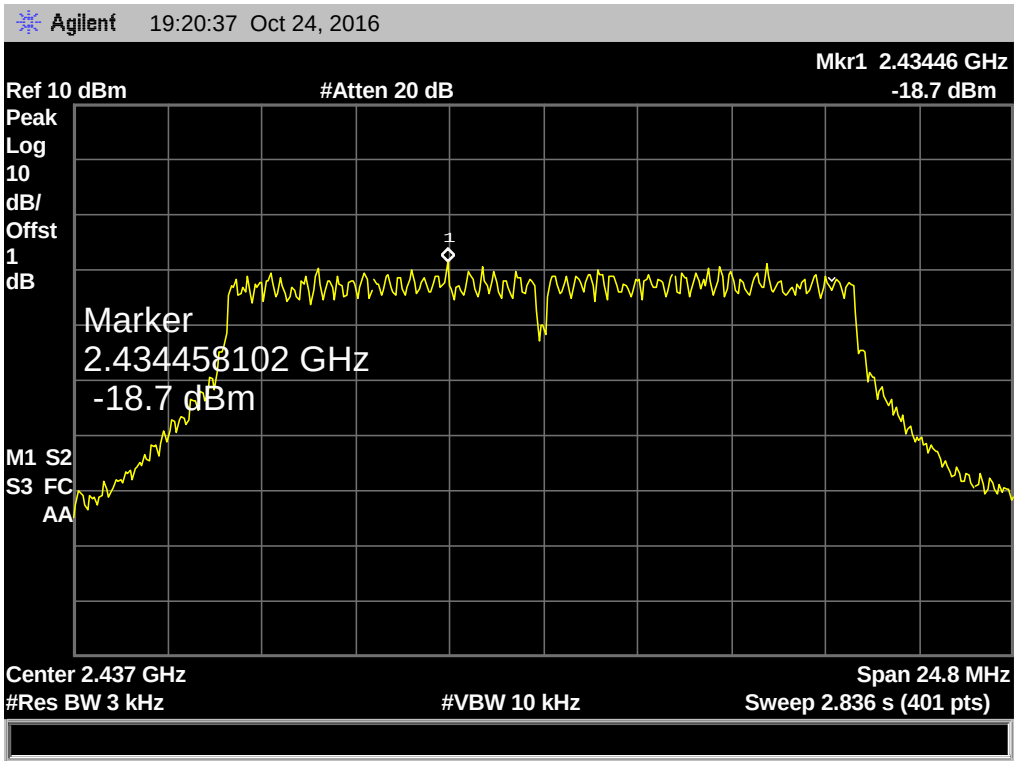
802.11G Mode

2412 MHz



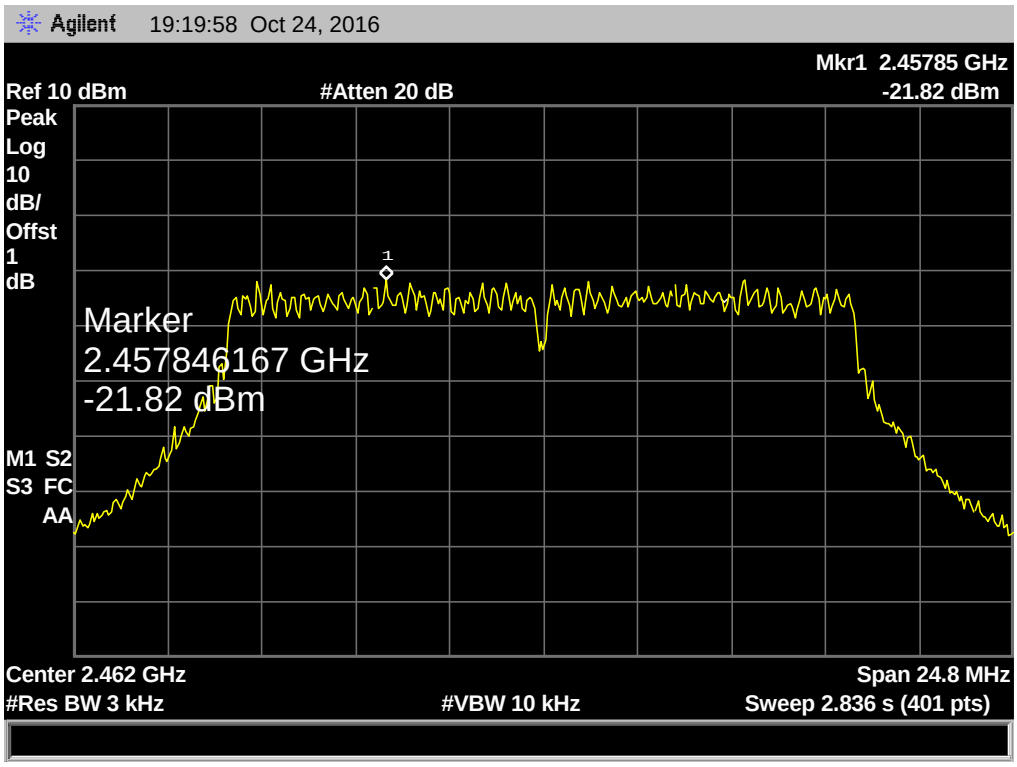
802.11G Mode

2437 MHz



802.11G Mode

2462 MHz

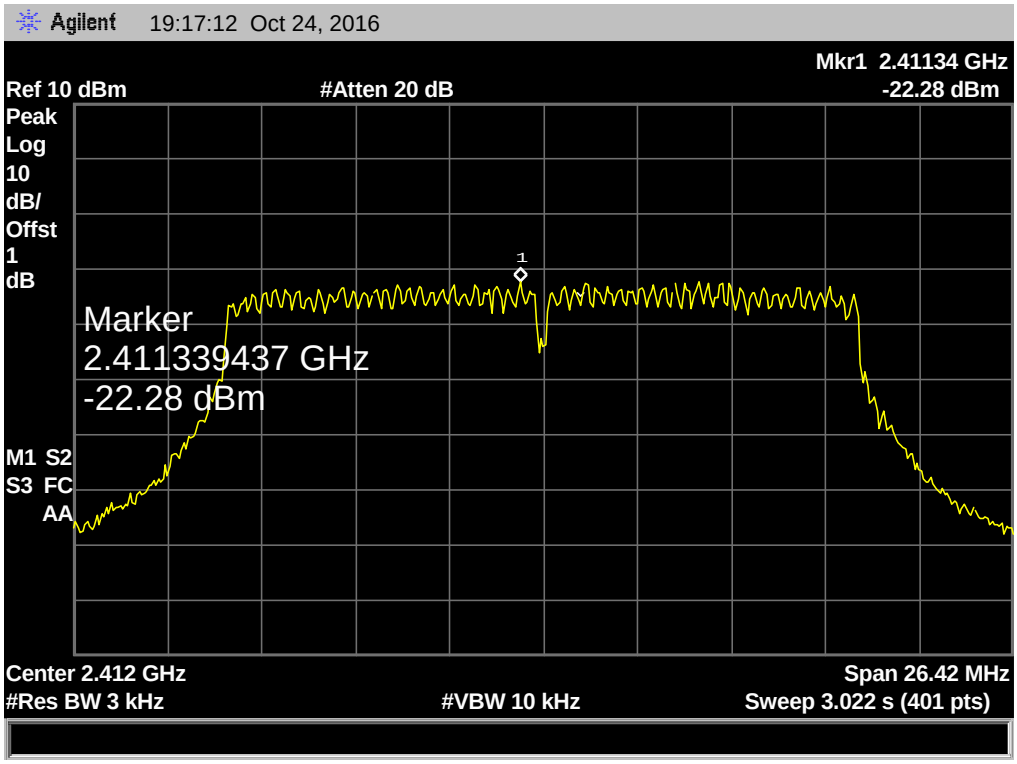


EUT:	8inch wifi cloud digital photo frame	Model:	JT081G-Q23
Temperature:	25 ℃	Temperature:	25 ℃
Test Voltage:	AC120V/60HZ		
Test Mode:	TX 802.11N(HT20) Mode		

Channel Frequency (MHz)	Power Density (3 kHz/dBm)	Limit (dBm)
2412	-22.28	8
2437	-19.43	
2462	-21.48	

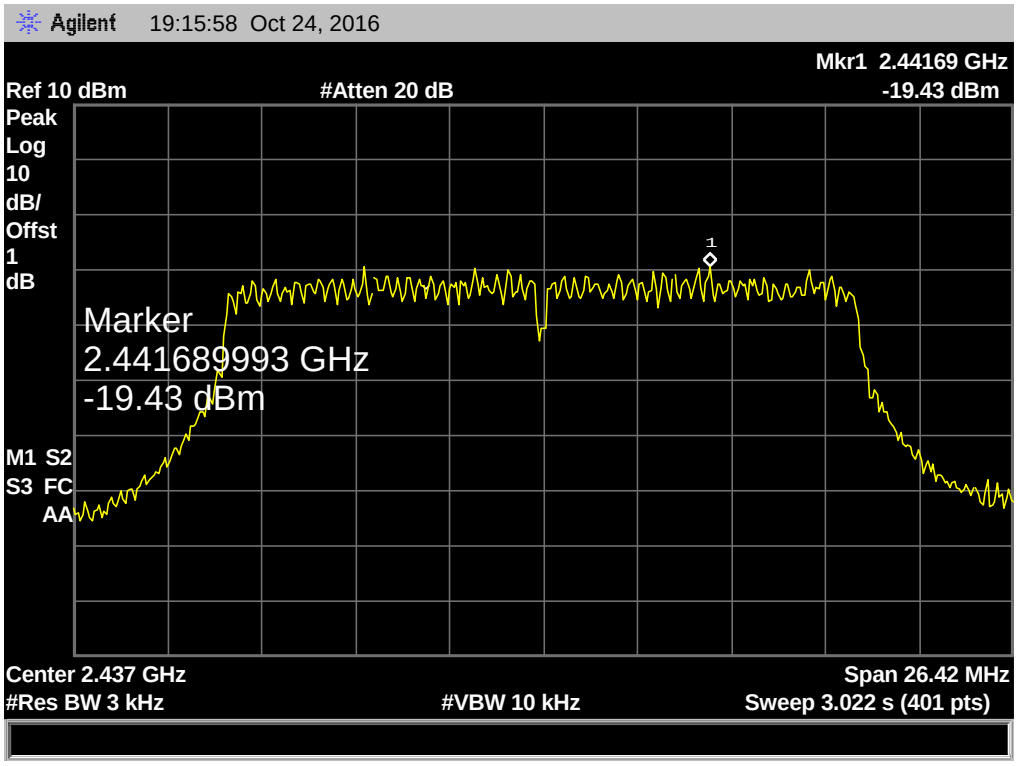
802.11N(HT20) Mode

2412 MHz



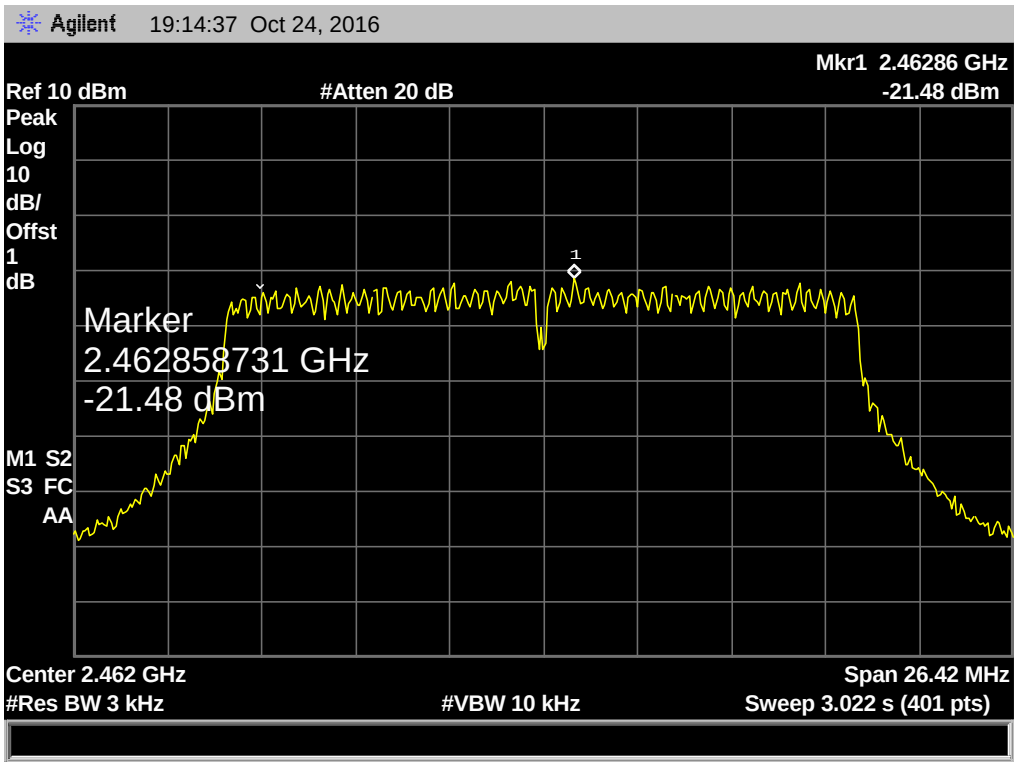
802.11N(HT20) Mode

2437 MHz



802.11N(HT20) Mode

2462 MHz



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 0.5 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 FPC Antenna. It complies with the standard requirement.

Antenna Type
☑ Permanent attached antenna
☐ Unique connector antenna
☐ Professional installation antenna