

FCC Radio Test Report

FCC ID: 2AJ8T-AWDMPF8

Original Grant

Report No. : TB-FCC153999
Applicant : Shen Zhen JoyHong Technology Co., Ltd
Equipment Under Test (EUT)
EUT Name : 8inch wifi cloud digital photo frame
Model No. : AWDMPF8BB
Series Model No. : JD081E-Q23
Brand Name : N/A
Receipt Date : 2017-05-17
Test Date : 2017-05-18 to 2017-05-23
Issue Date : 2017-05-24
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

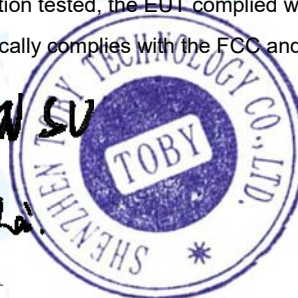
Test/Witness Engineer :

IVAN SU

**Approved &
Authorized**

:

Long Ha



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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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.	:	AWDMPF8BB, JD081E-Q23
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: 9.34 dBm 802.11g: 8.95 dBm 802.11n (HT20): 8.95 dBm
	Antenna Gain:	0.5 dBi FPC 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 802.11n:up to 150Mbps
Power Supply	:	DC Voltage supplied from Switching Adapter
Power Rating	:	AC/DC Adapter (YNQX12T050200UL) Input: AC 100~240V, 50/60Hz, 0.35A Output: DC 5V, 2.0A
Connecting I/O Port(S)	:	Please refer to the User's Manual

Note:

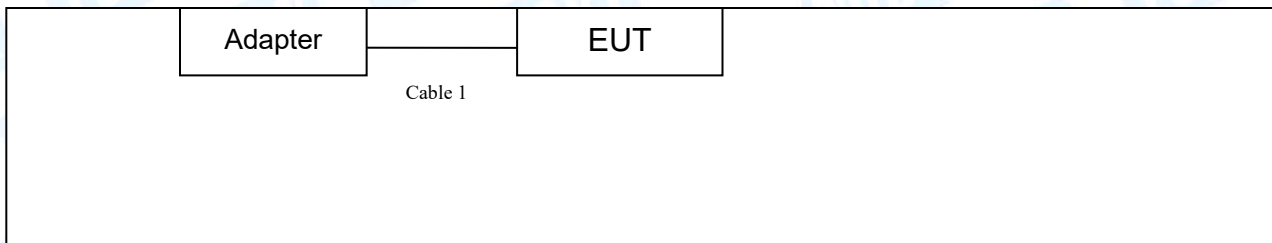
- (1) This Test Report is FCC Part 15.247 for 802.11b/g/n, the test procedure follows the FCC KDB 558074 D01 DTS Meas Guidance v04.
- (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- (3) Channel List:

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(HT20)					

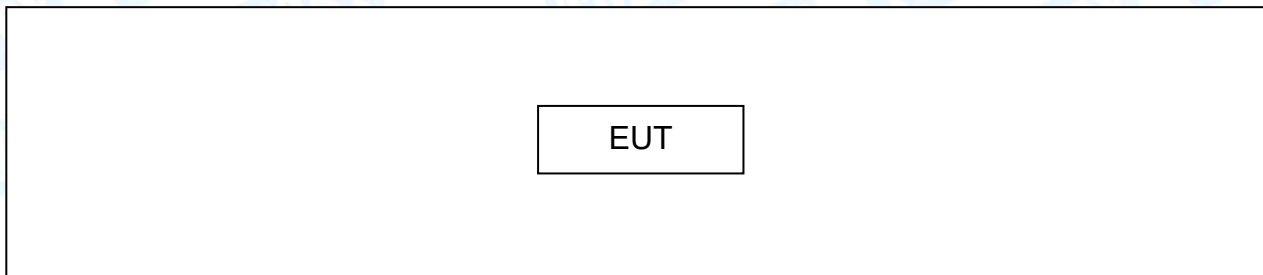
(4) The Antenna information about the equipment is provided by the applicant.

1.3 Block Diagram Showing the Configuration of System Tested

USB Charging Mode



TX Mode



1.4 Description of Support Units

Equipment Information				
Name	Model	FCC ID/VOC	Manufacturer	Used “√”
Cable Information				
Number	Shielded Type	Ferrite Core	Length	Note
Cable 1	NO	YES	1.5M	

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	Connect to AC Adapter with TX B Mode

For Radiated Test	
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

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 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.

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	FCC_Espressif_4.0.apk		
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 $y \pm U$, 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_{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

1.8 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.

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)	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.				

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.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.24, 2017	Mar. 23, 2018
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar.25, 2017	Mar. 24, 2018
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
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

4. Conducted Emission Test

4.1 Test Standard and Limit

4.1.1 Test Standard

FCC Part 15.207

4.1.2 Test Limit

Conducted Emission Test Limit

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

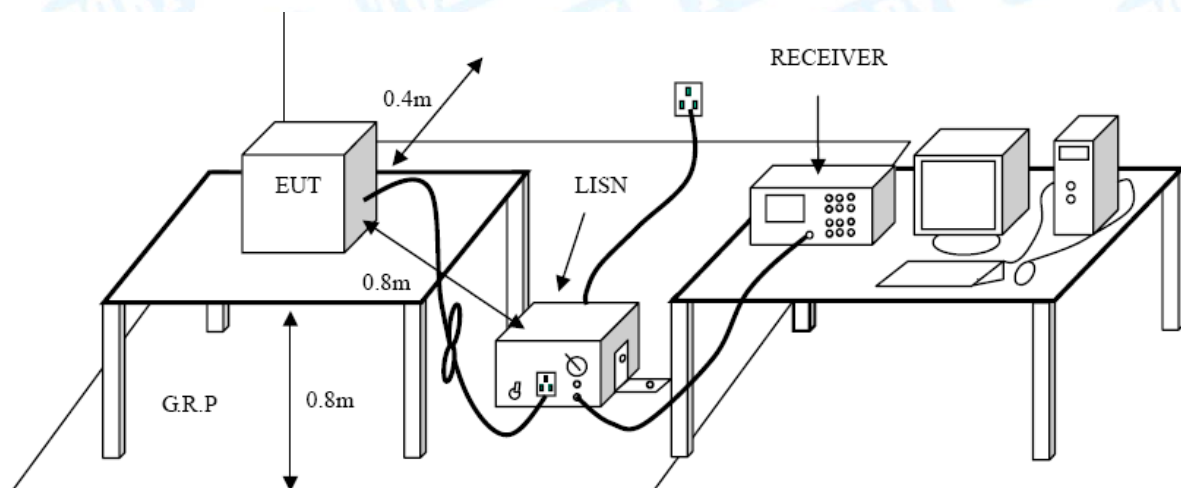
Notes:

(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.

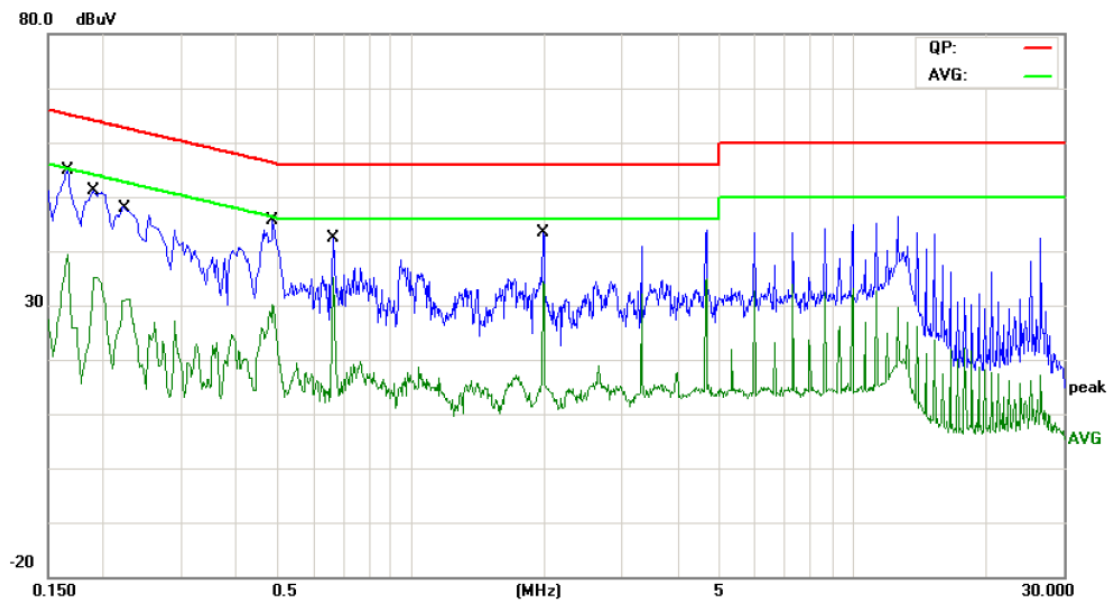
4.4 EUT Operating Mode

Please refer to the description of test mode.

4.5 Test Data

Please see the next page.

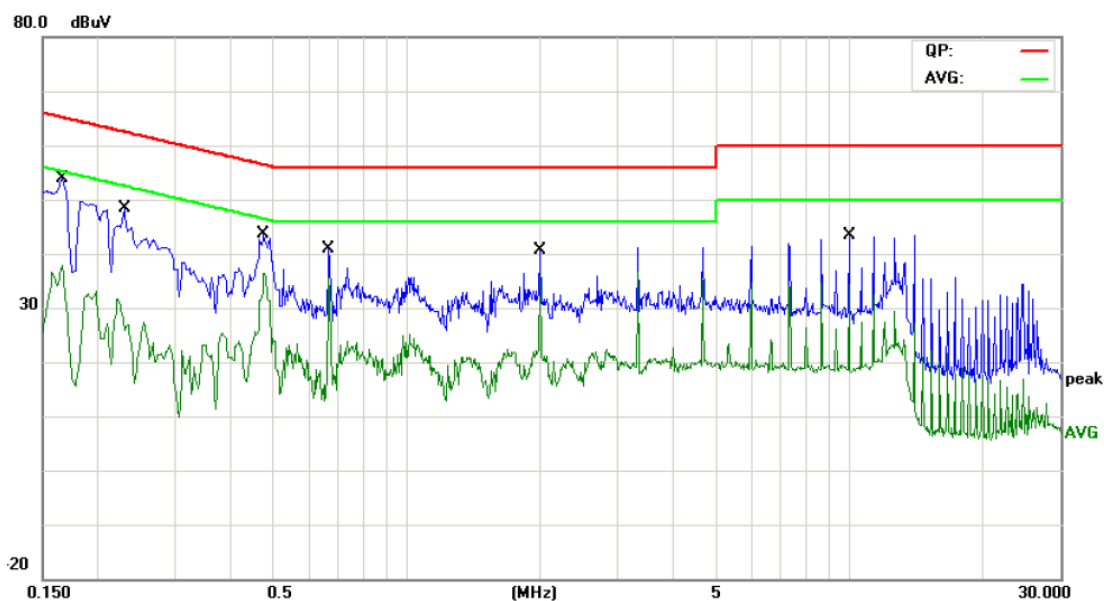
EUT:	8inch wifi cloud digital photo frame	Model Name :	AWDMPF8BB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Terminal:	Line		
Test Mode:	Connect to AC Adapter with TX B Mode		
Remark:	Only worse case is reported		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1660	39.63	9.95	49.58	65.15	-15.57	QP
2		0.1660	19.81	9.95	29.76	55.15	-25.39	AVG
3		0.1900	37.66	10.00	47.66	64.03	-16.37	QP
4		0.1900	19.63	10.00	29.63	54.03	-24.40	AVG
5		0.2260	33.58	10.02	43.60	62.59	-18.99	QP
6		0.2260	15.02	10.02	25.04	52.59	-27.55	AVG
7		0.4860	29.86	10.02	39.88	56.24	-16.36	QP
8		0.4860	16.43	10.02	26.45	46.24	-19.79	AVG
9		0.6660	30.51	10.10	40.61	56.00	-15.39	QP
10	*	0.6660	25.22	10.10	35.32	46.00	-10.68	AVG
11		1.9900	17.45	10.06	27.51	56.00	-28.49	QP
12		1.9900	10.32	10.06	20.38	46.00	-25.62	AVG

Emission Level= Read Level+ Correct Factor

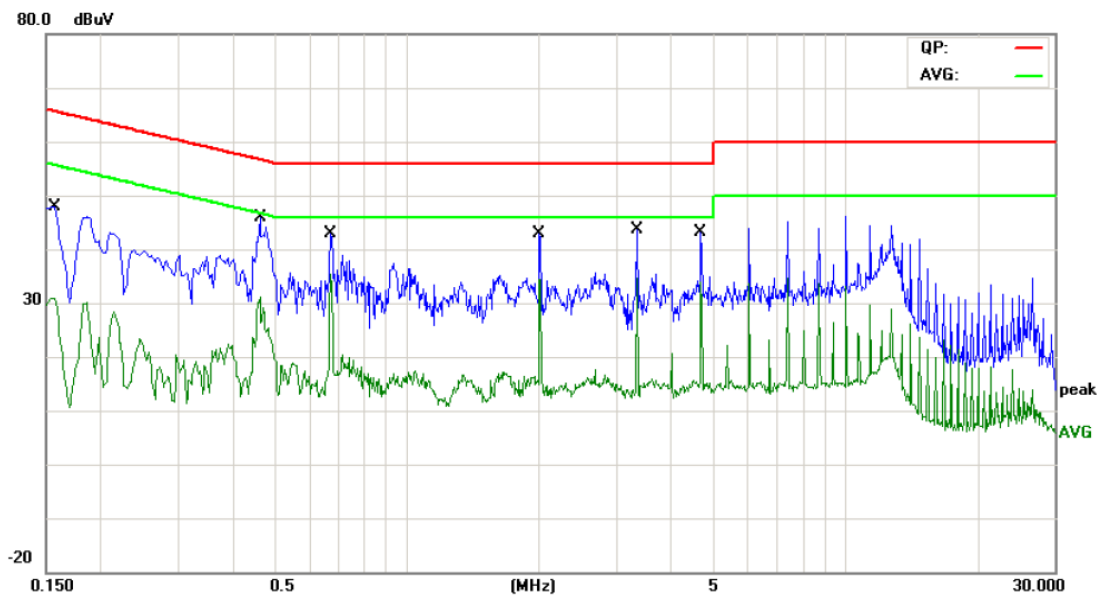
EUT:	8inch wifi cloud digital photo frame	Model Name :	AWDMPF8BB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Terminal:	Neutral		
Test Mode:	Connect to AC Adapter with TX B Mode		
Remark:	Only worse case is reported		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1660	37.30	10.12	47.42	65.15	-17.73	QP
2		0.1660	16.19	10.12	26.31	55.15	-28.84	AVG
3		0.2300	30.58	10.11	40.69	62.45	-21.76	QP
4		0.2300	12.82	10.11	22.93	52.45	-29.52	AVG
5		0.4740	31.08	10.03	41.11	56.44	-15.33	QP
6		0.4740	22.49	10.03	32.52	46.44	-13.92	AVG
7		0.6660	27.63	10.02	37.65	56.00	-18.35	QP
8	*	0.6660	24.32	10.02	34.34	46.00	-11.66	AVG
9		2.0020	28.48	10.06	38.54	56.00	-17.46	QP
10		2.0020	24.27	10.06	34.33	46.00	-11.67	AVG
11		9.9980	14.20	10.16	24.36	60.00	-35.64	QP
12		9.9980	7.97	10.16	18.13	50.00	-31.87	AVG

Emission Level= Read Level+ Correct Factor

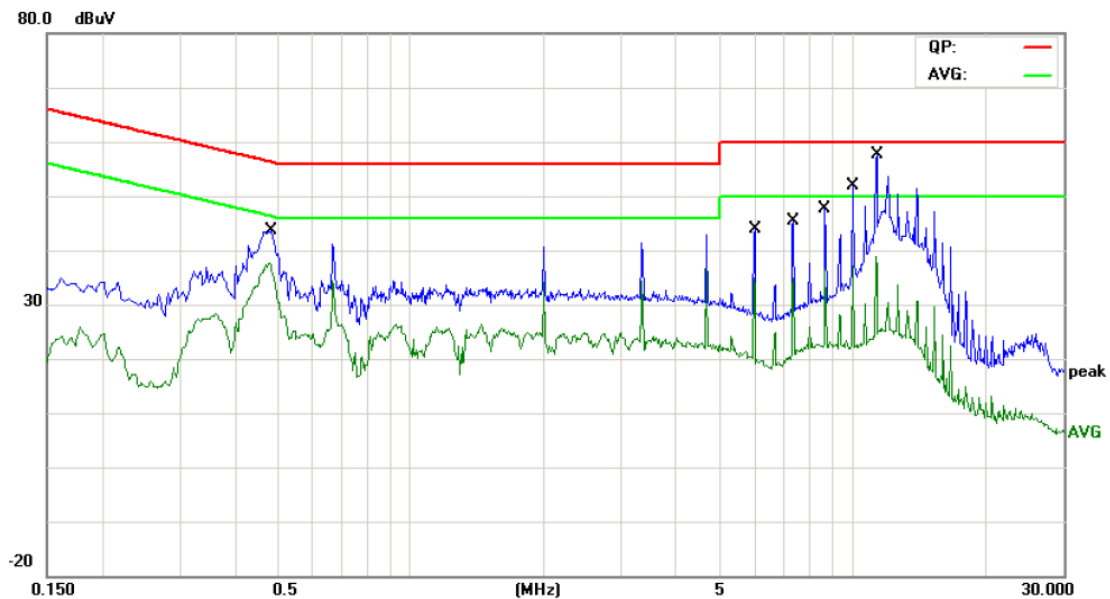
EUT:	8inch wifi cloud digital photo frame	Model Name :	AWDMPF8BB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 240V/60Hz		
Terminal:	Line		
Test Mode:	Connect to AC Adapter with TX B Mode		
Remark:	Only worse case is reported		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1580	34.59	10.12	44.71	65.56	-20.85	QP
2		0.1580	17.40	10.12	27.52	55.56	-28.04	AVG
3		0.4620	31.07	10.03	41.10	56.66	-15.56	QP
4		0.4620	18.76	10.03	28.79	46.66	-17.87	AVG
5		0.6700	30.34	10.02	40.36	56.00	-15.64	QP
6	*	0.6700	25.02	10.02	35.04	46.00	-10.96	AVG
7		2.0100	29.13	10.06	39.19	56.00	-16.81	QP
8		2.0100	23.62	10.06	33.68	46.00	-12.32	AVG
9		3.3540	30.18	10.06	40.24	56.00	-15.76	QP
10		3.3540	22.85	10.06	32.91	46.00	-13.09	AVG
11		4.6940	29.54	10.06	39.60	56.00	-16.40	QP
12		4.6940	20.60	10.06	30.66	46.00	-15.34	AVG

Emission Level= Read Level+ Correct Factor

EUT:	8inch wifi cloud digital photo frame	Model Name :	AWDMPF8BB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 240V/60Hz		
Terminal:	Neutral		
Test Mode:	Connect to AC Adapter with TX B Mode		
Remark:	Only worse case is reported		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.4860	29.90	10.02	39.92	56.24	-16.32	QP
2	*	0.4860	25.24	10.02	35.26	46.24	-10.98	AVG
3		6.0100	19.59	10.06	29.65	60.00	-30.35	QP
4		6.0100	11.84	10.06	21.90	50.00	-28.10	AVG
5		7.3460	21.10	10.07	31.17	60.00	-28.83	QP
6		7.3460	11.59	10.07	21.66	50.00	-28.34	AVG
7		8.6580	16.77	10.12	26.89	60.00	-33.11	QP
8		8.6580	11.60	10.12	21.72	50.00	-28.28	AVG
9		9.9900	18.28	10.16	28.44	60.00	-31.56	QP
10		9.9900	11.55	10.16	21.71	50.00	-28.29	AVG
11		11.3500	28.86	10.13	38.99	60.00	-21.01	QP
12		11.3500	14.01	10.13	24.14	50.00	-25.86	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

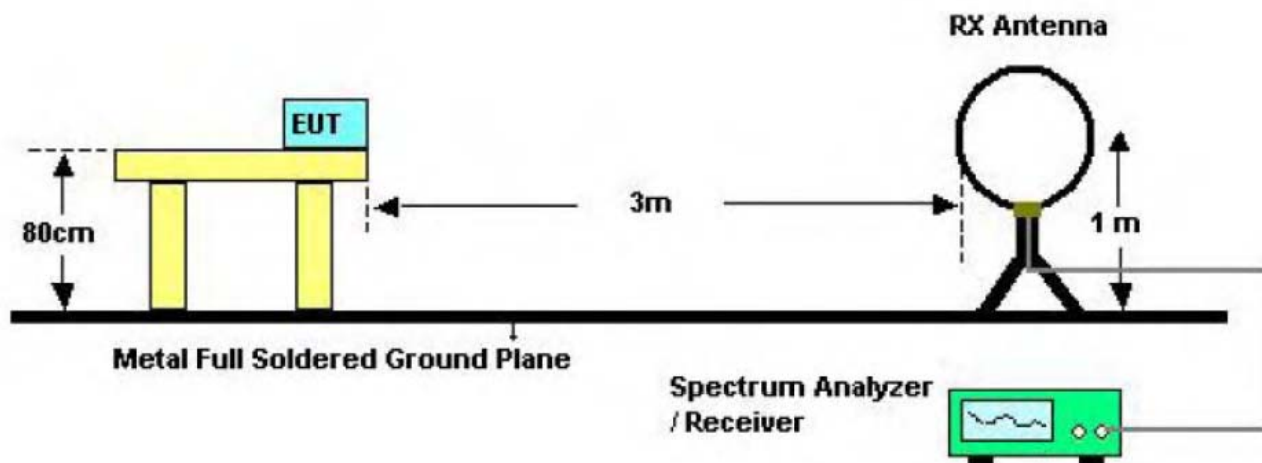
Radiated Emission Limit (Above 1000MHz)

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

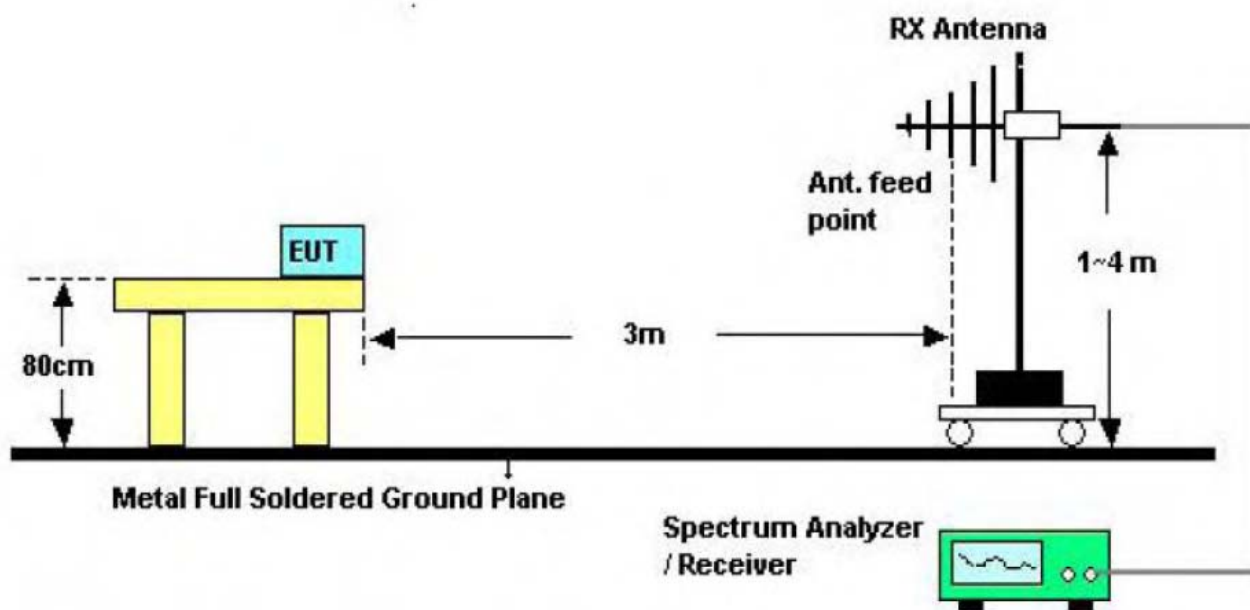
Note:

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

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.

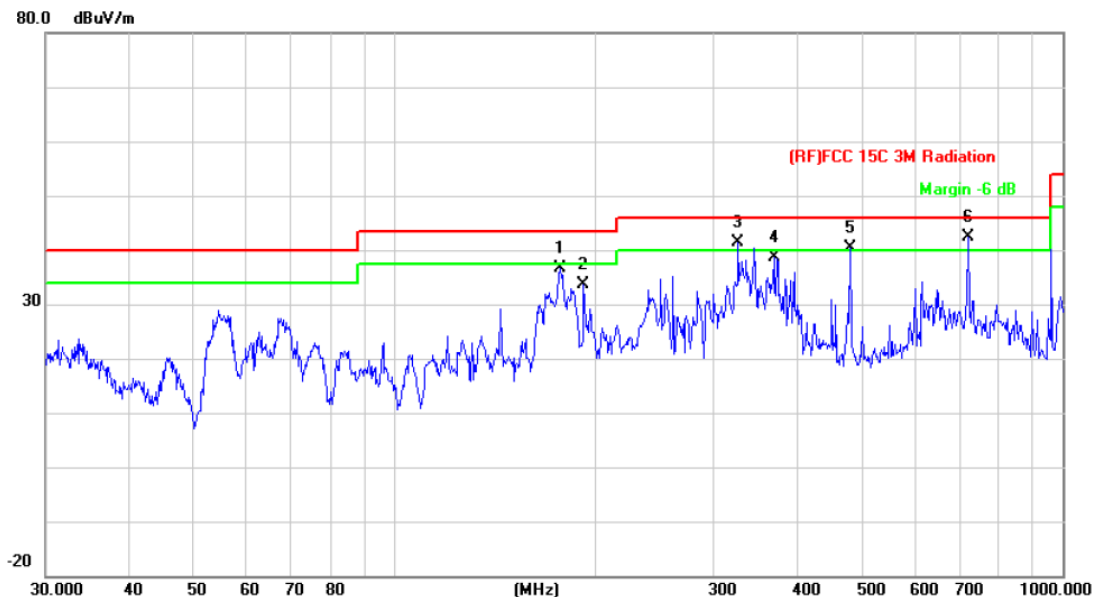
9KHz~30MHz

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:	8inch wifi cloud digital photo frame	Model:	AWDMPF8BB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz		
Remark:	Only worse case is reported		

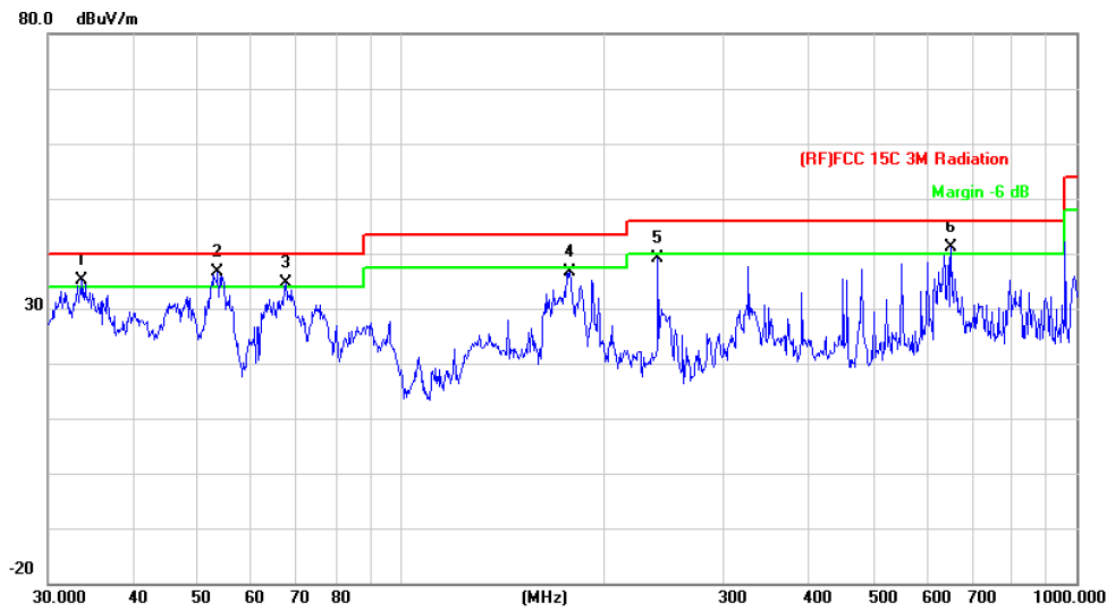


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		176.8874	57.20	-20.46	36.74	43.50	-6.76	QP
2		191.7450	54.07	-20.45	33.62	43.50	-9.88	QP
3	!	326.7395	56.85	-15.59	41.26	46.00	-4.74	QP
4		369.4045	52.55	-14.04	38.51	46.00	-7.49	QP
5	!	480.5276	51.54	-11.13	40.41	46.00	-5.59	QP
6	*	721.7259	48.44	-6.00	42.44	46.00	-3.56	QP

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

Emission Level= Read Level+ Correct Factor

EUT:	8inch wifi cloud digital photo frame	Model:	AWDMPF8BB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz		
Remark:	Only worse case is reported		



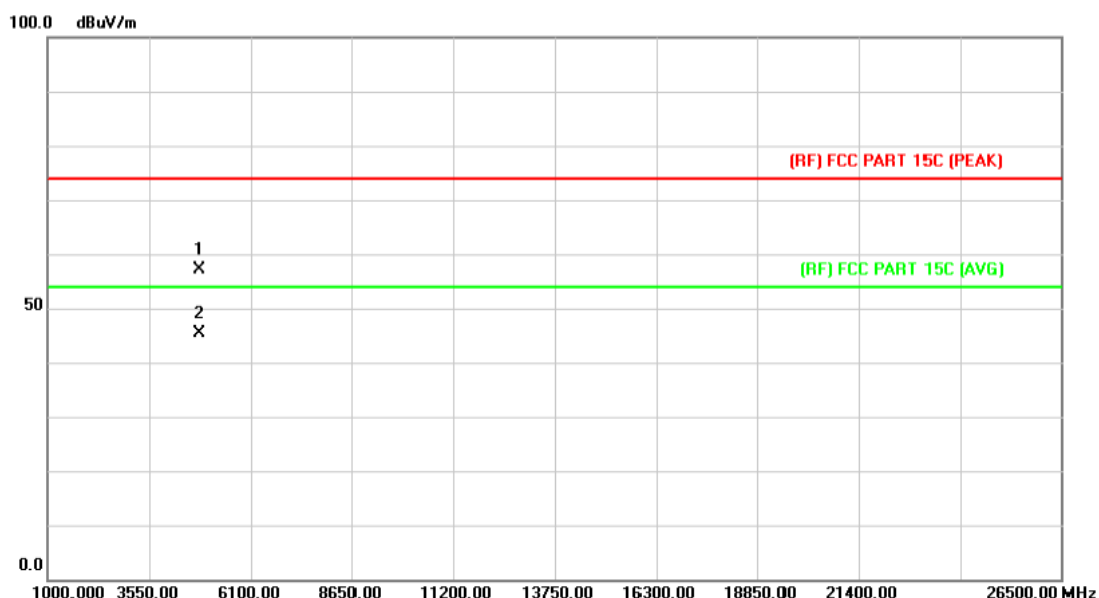
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	!	33.6802	51.55	-16.40	35.15	40.00	-4.85	QP
2	*	53.5052	61.09	-24.54	36.55	40.00	-3.45	QP
3	!	67.4381	58.54	-23.93	34.61	40.00	-5.39	QP
4		177.5089	57.08	-20.42	36.66	43.50	-6.84	QP
5		239.9874	57.19	-18.18	39.01	46.00	-6.99	QP
6	!	651.9415	49.00	-7.78	41.22	46.00	-4.78	QP

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

Emission Level= Read Level+ Correct Factor

Above 1GHz

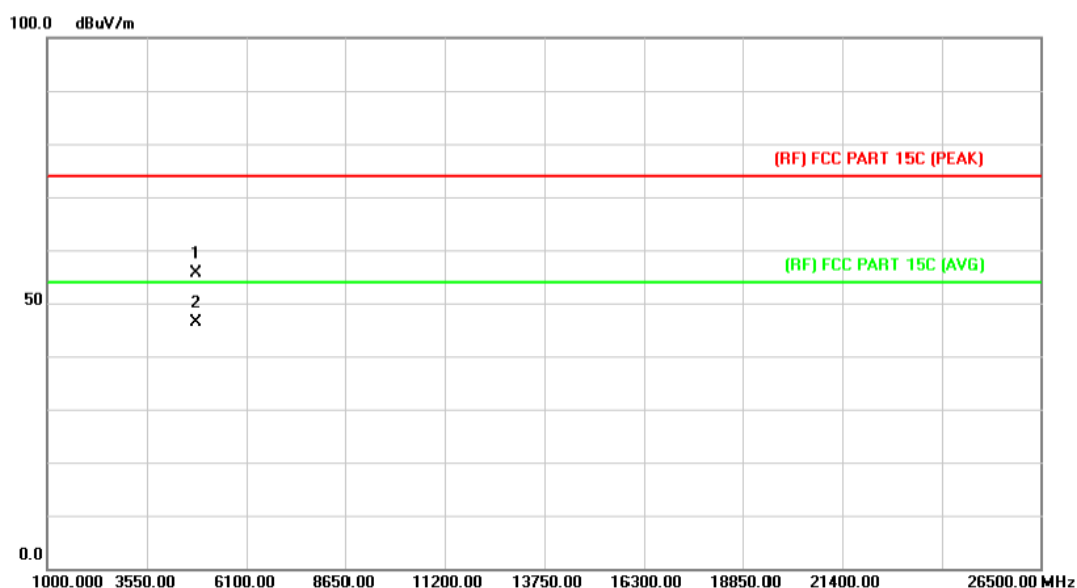
EUT:	8inch wifi cloud digital photo frame	Model:	AWDMPF8BB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.920	43.68	13.56	57.24	74.00	-16.76	peak
2	*	4823.920	31.80	13.56	45.36	54.00	-8.64	AVG

Emission Level= Read Level+ Correct Factor

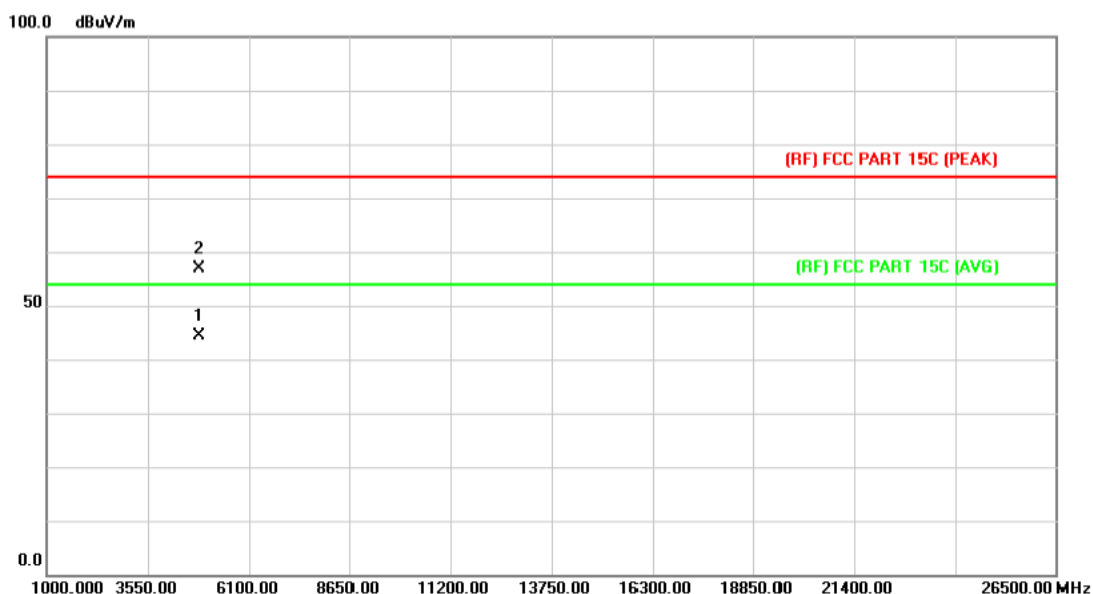
EUT:	8inch wifi cloud digital photo frame	Model:	AWDMPF8BB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4824.232	42.16	13.56	55.72	74.00	-18.28	peak
2	*	4825.361	32.73	13.57	46.30	54.00	-7.70	AVG

Emission Level= Read Level+ Correct Factor

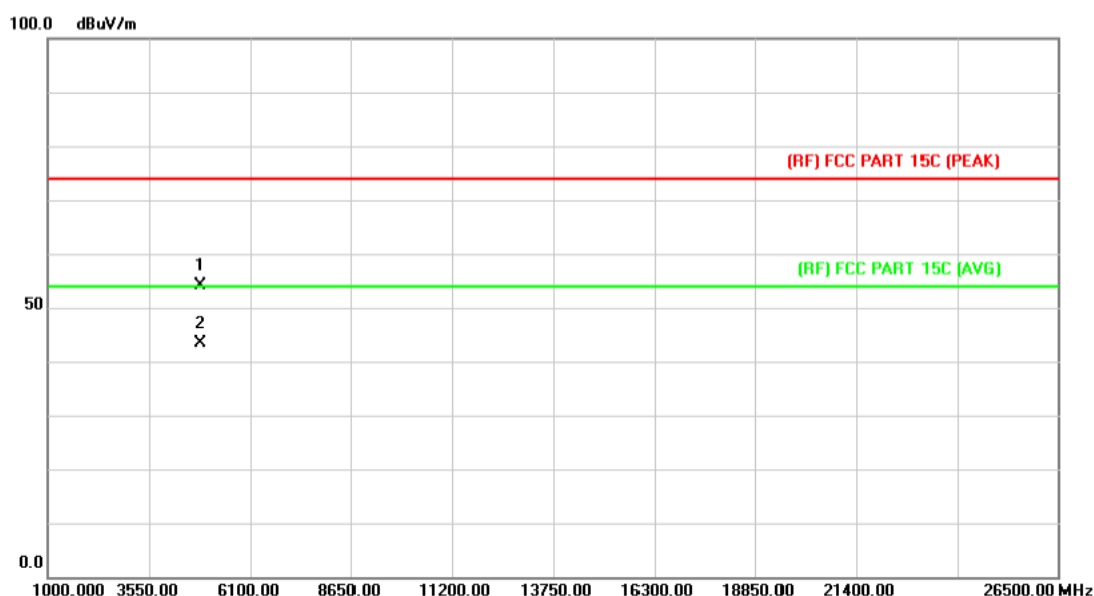
EUT:	8inch wifi cloud digital photo frame	Model:	AWDMPF8BB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4873.059	30.50	13.86	44.36	54.00	-9.64	AVG
2		4874.694	43.05	13.87	56.92	74.00	-17.08	peak

Emission Level= Read Level+ Correct Factor

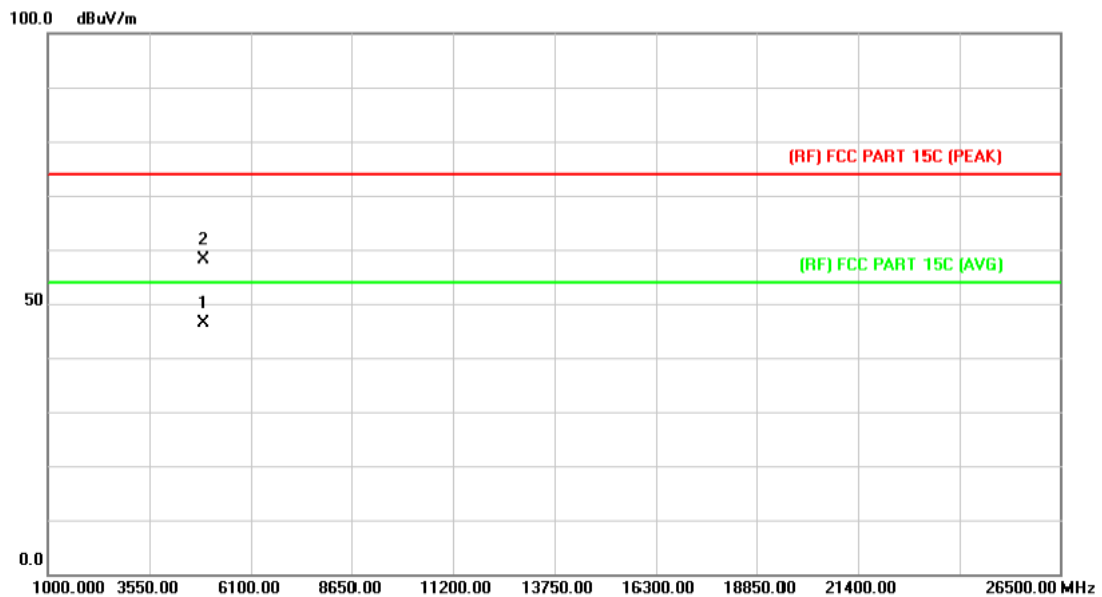
EUT:	8inch wifi cloud digital photo frame	Model:	AWDMPF8BB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.262	40.38	13.86	54.24	74.00	-19.76	peak
2	*	4874.251	29.40	13.86	43.26	54.00	-10.74	AVG

Emission Level= Read Level+ Correct Factor

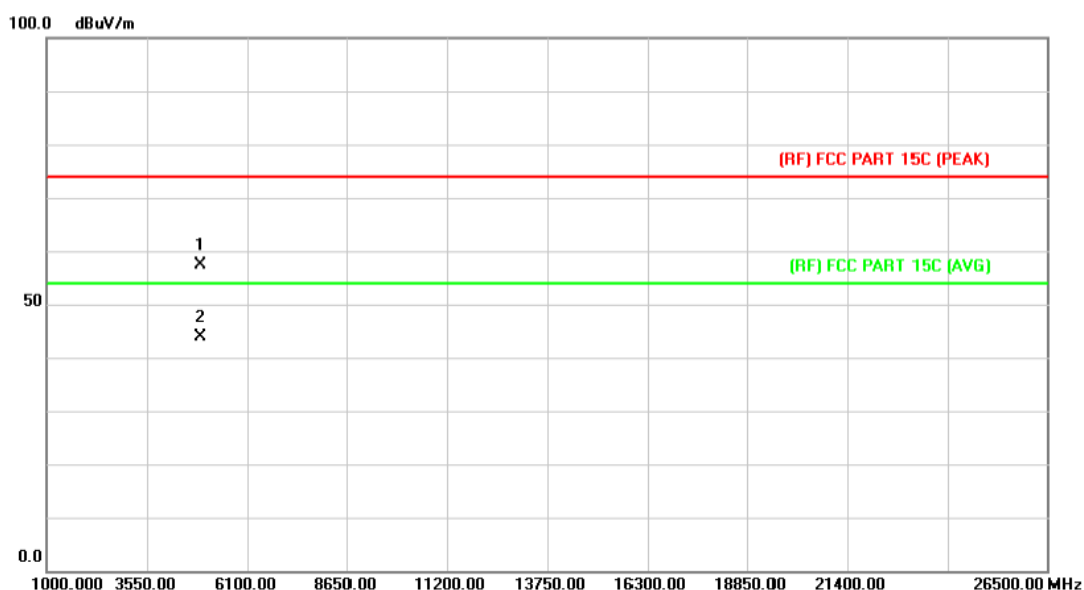
EUT:	8inch wifi cloud digital photo frame	Model:	AWDMPF8BB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4923.657	32.14	14.15	46.29	54.00	-7.71	AVG
2		4925.251	44.08	14.16	58.24	74.00	-15.76	peak

Emission Level= Read Level+ Correct Factor

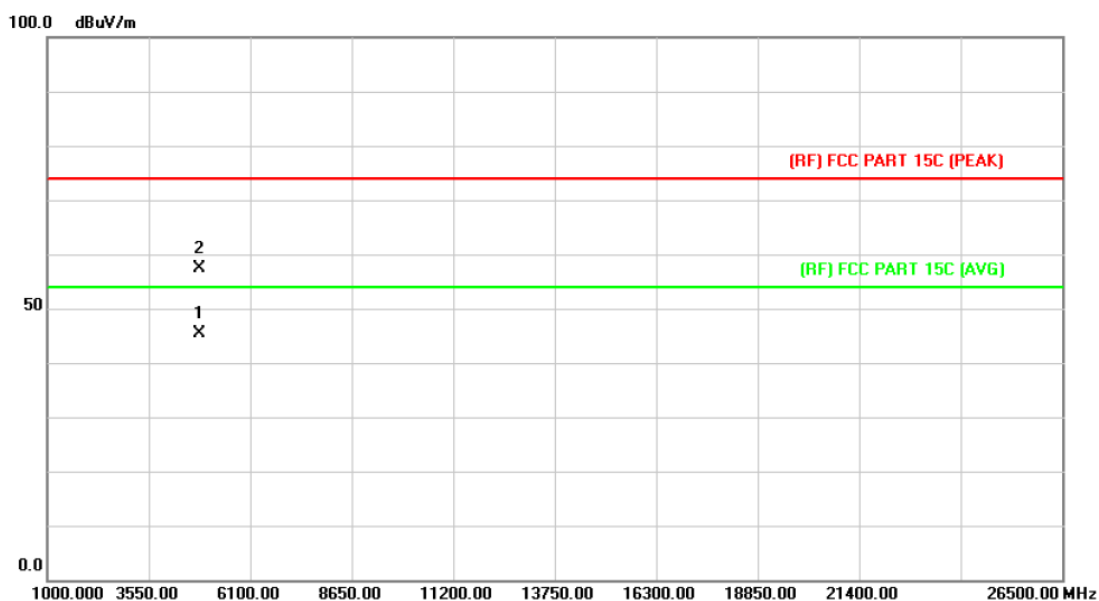
EUT:	8inch wifi cloud digital photo frame	Model:	AWDMPF8BB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4924.236	43.11	14.15	57.26	74.00	-16.74	peak
2	*	4925.365	29.84	14.16	44.00	54.00	-10.00	AVG

Emission Level= Read Level+ Correct Factor

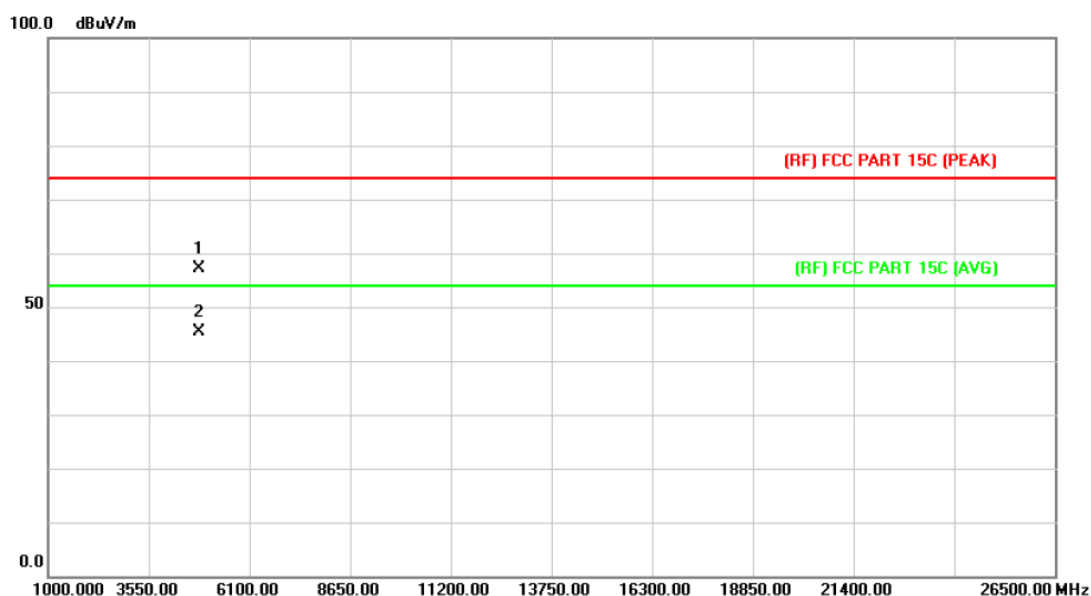
EUT:	8inch wifi cloud digital photo frame	Model:	AWDMPF8BB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4825.238	31.70	13.57	45.27	54.00	-8.73	AVG
2		4826.735	43.69	13.57	57.26	74.00	-16.74	peak

Emission Level= Read Level+ Correct Factor

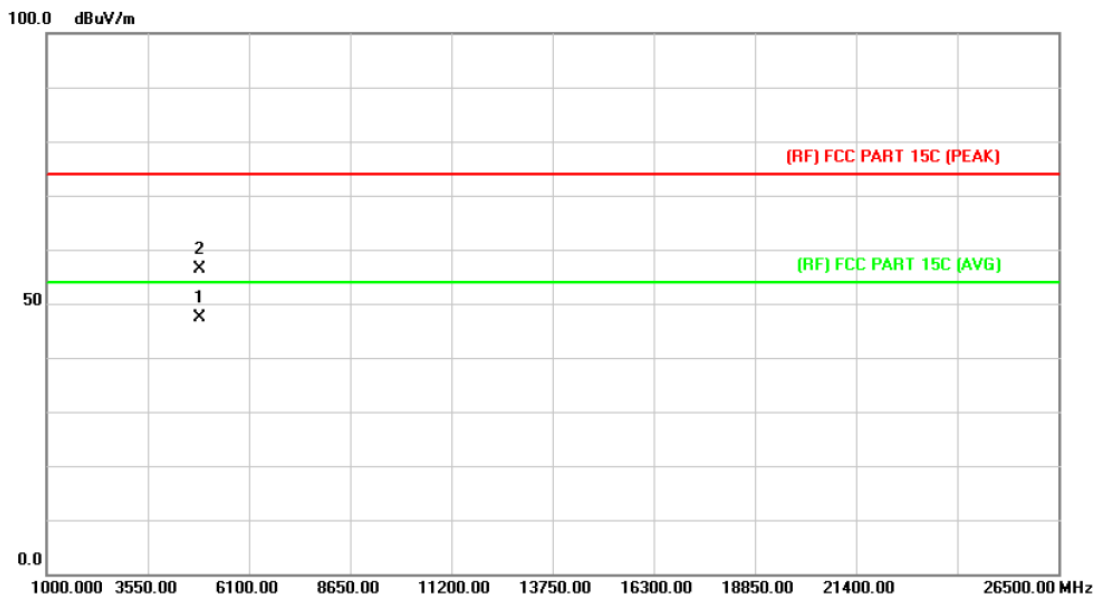
EUT:	8inch wifi cloud digital photo frame	Model:	AWDMPF8BB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4824.375	43.56	13.56	57.12	74.00	-16.88	peak
2	*	4825.125	31.70	13.57	45.27	54.00	-8.73	AVG

Emission Level= Read Level+ Correct Factor

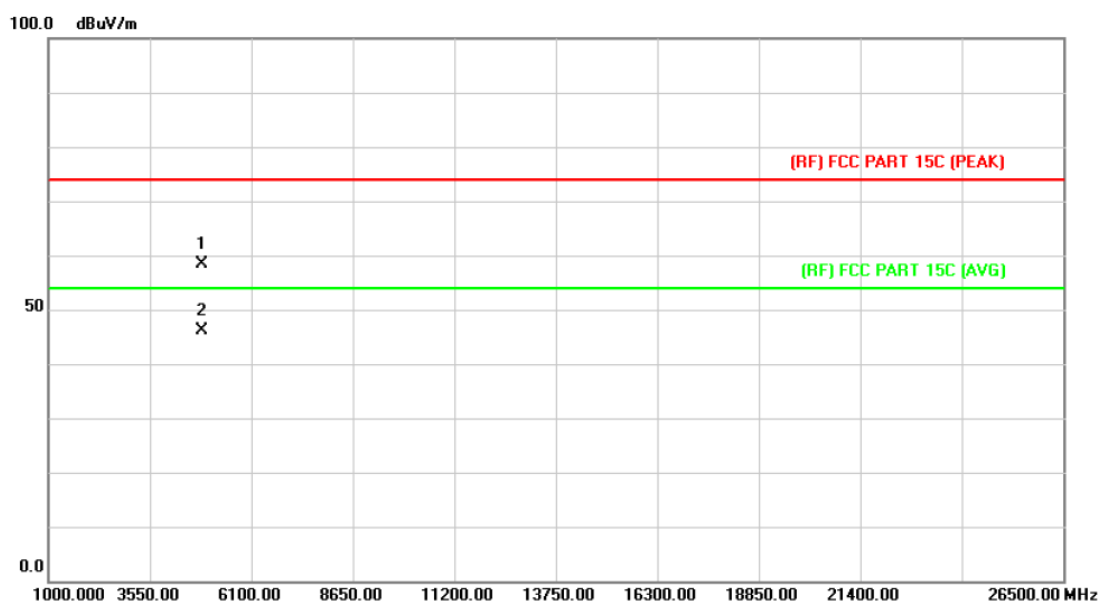
EUT:	8inch wifi cloud digital photo frame	Model:	AWDMPF8BB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4874.265	33.40	13.86	47.26	54.00	-6.74	AVG
2		4875.698	42.43	13.87	56.30	74.00	-17.70	peak

Emission Level= Read Level+ Correct Factor

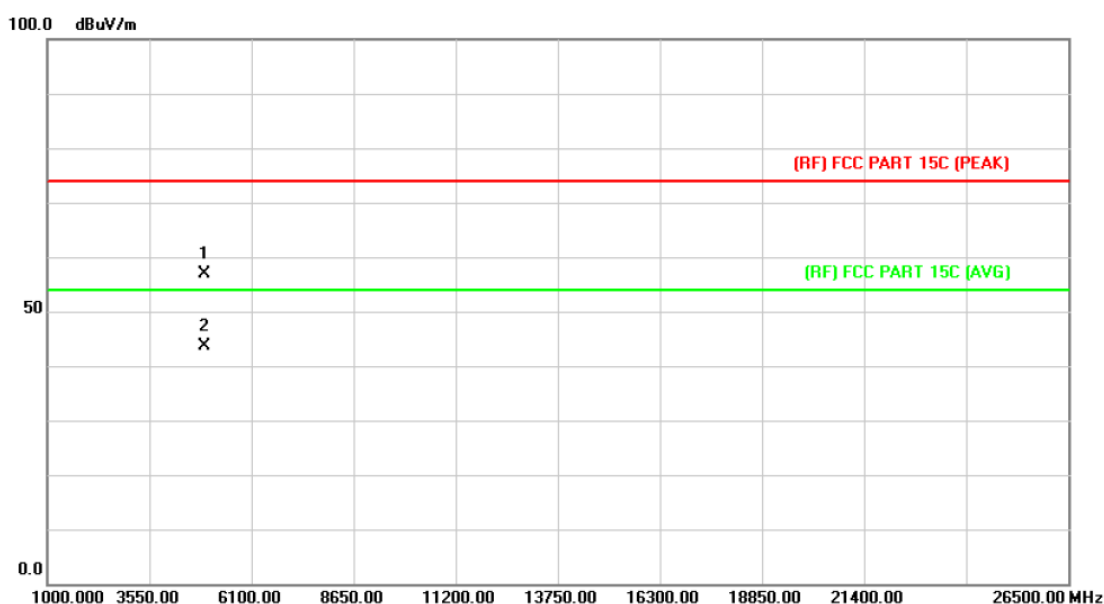
EUT:	8inch wifi cloud digital photo frame	Model:	AWDMPF8BB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4874.275	44.41	13.86	58.27	74.00	-15.73	peak
2	*	4875.225	32.37	13.87	46.24	54.00	-7.76	AVG

Emission Level= Read Level+ Correct Factor

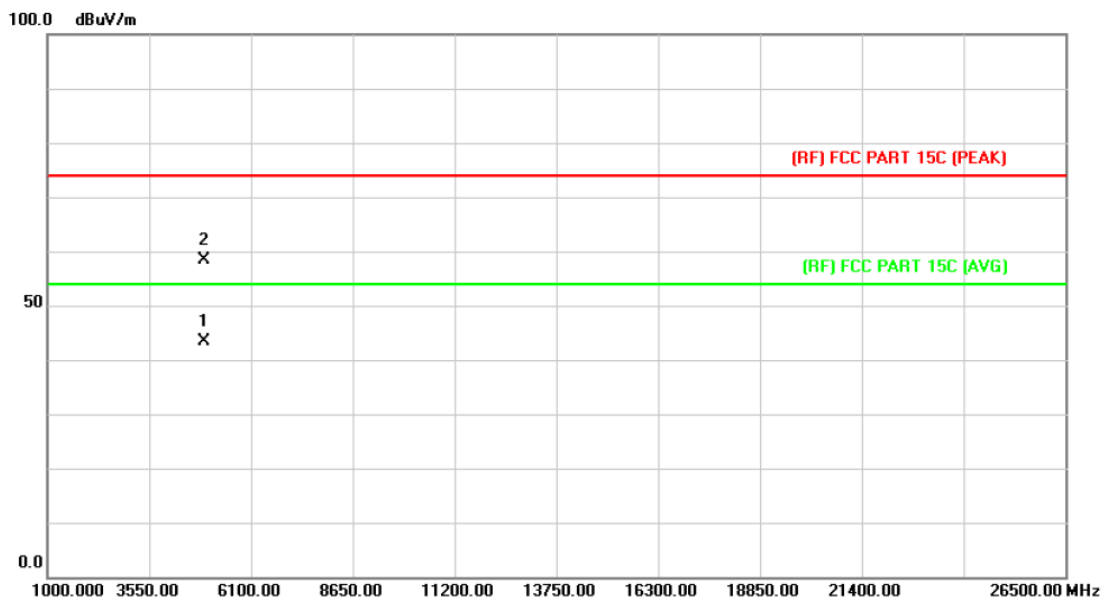
EUT:	8inch wifi cloud digital photo frame	Model:	AWDMPF8BB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over 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

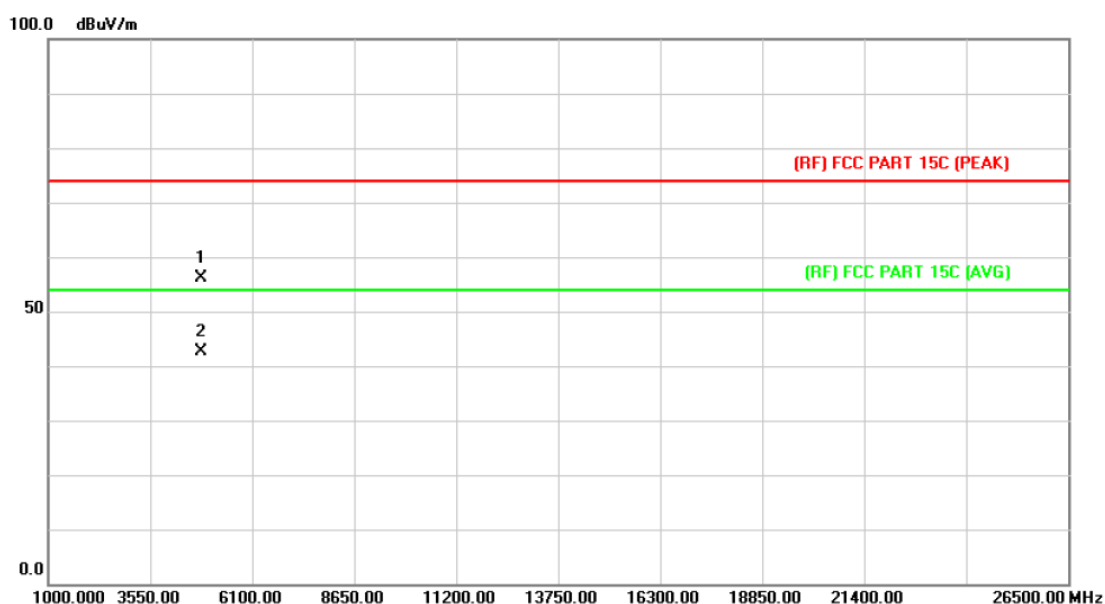
EUT:	8inch wifi cloud digital photo frame	Model:	AWDMPF8BB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4923.257	29.14	14.15	43.29	54.00	-10.71	AVG
2		4924.325	44.17	14.15	58.32	74.00	-15.68	peak

Emission Level= Read Level+ Correct Factor

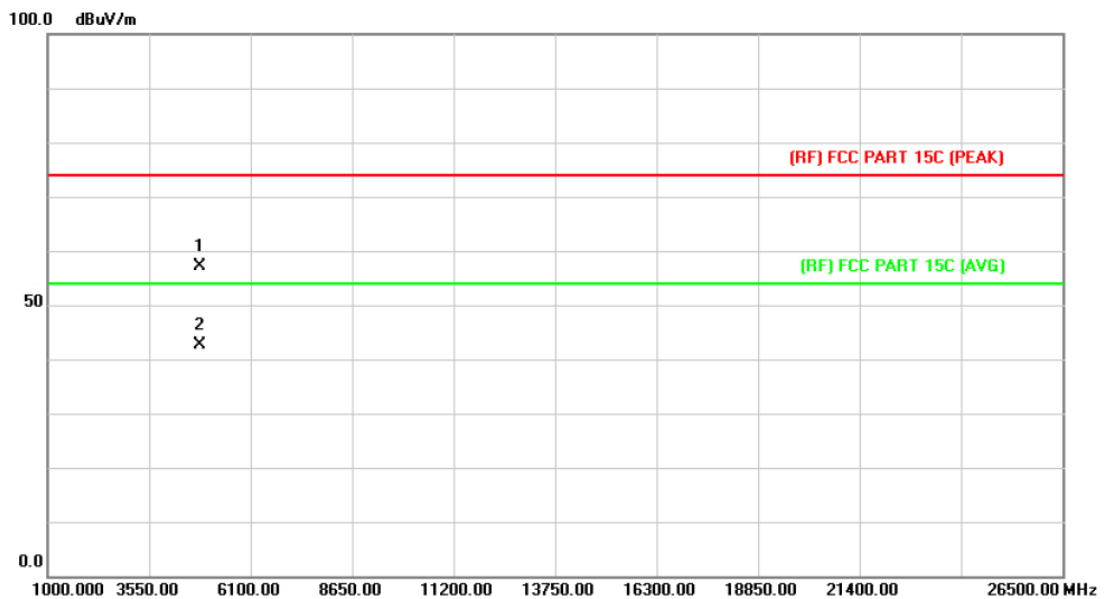
EUT:	8inch wifi cloud digital photo frame	Model:	AWDMPF8BB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over 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

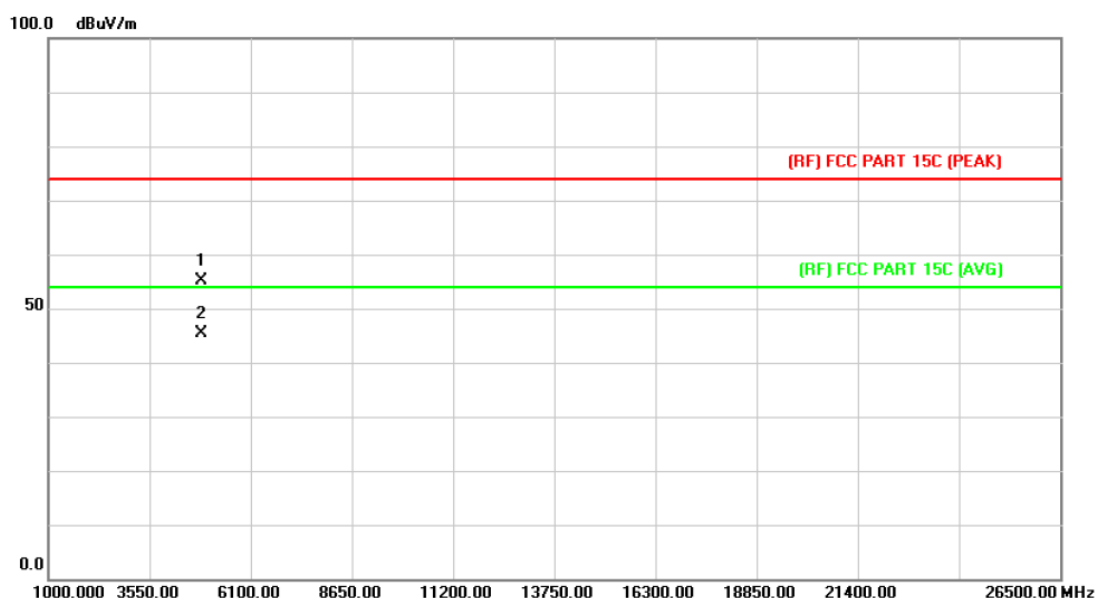
EUT:	8inch wifi cloud digital photo frame	Model:	AWDMPF8BB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	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

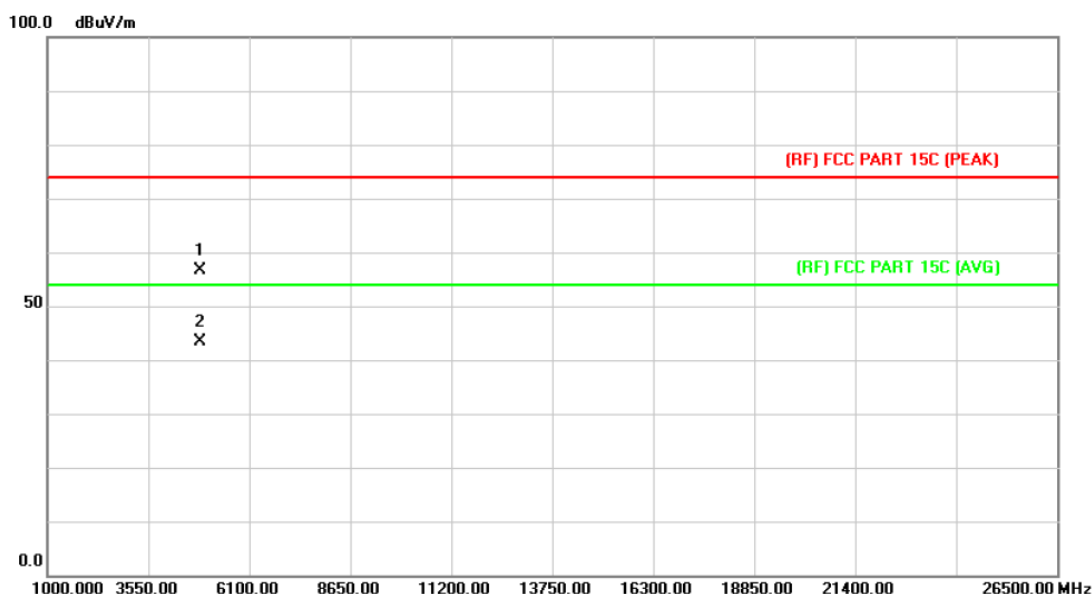
EUT:	8inch wifi cloud digital photo frame	Model:	AWDMPF8BB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4873.202	41.39	13.86	55.25	74.00	-18.75	peak
2	*	4875.265	31.40	13.87	45.27	54.00	-8.73	AVG

Emission Level= Read Level+ Correct Factor

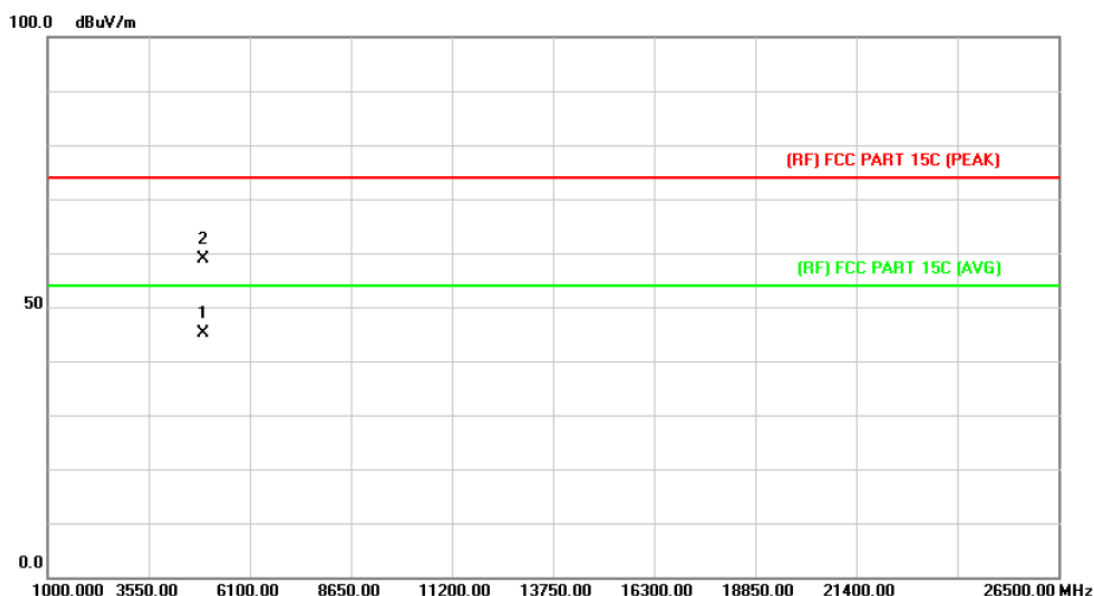
EUT:	8inch wifi cloud digital photo frame	Model:	AWDMPF8BB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over 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

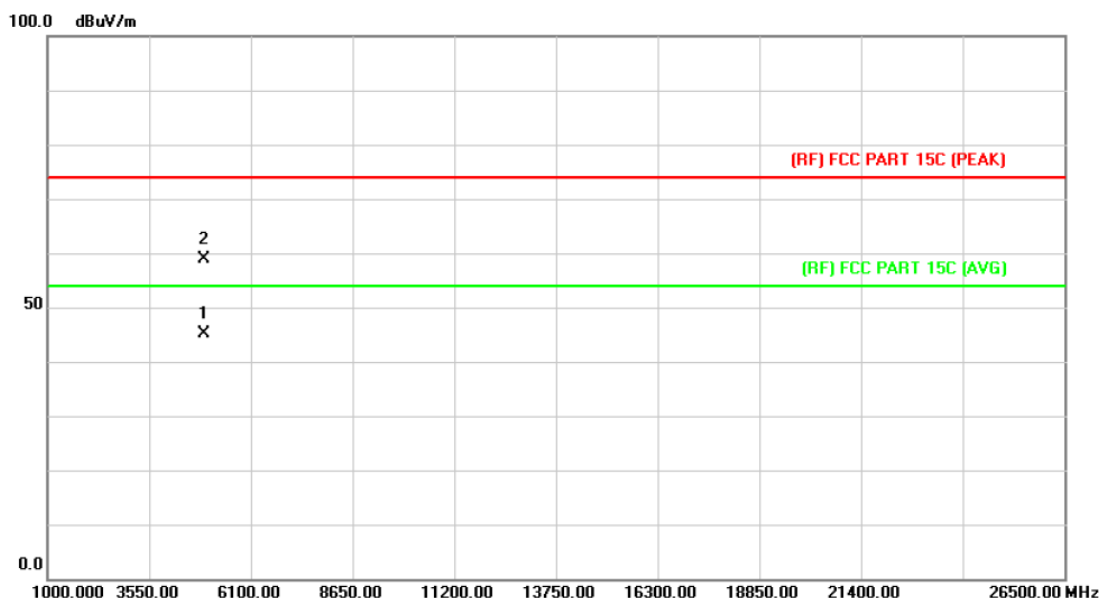
EUT:	8inch wifi cloud digital photo frame	Model:	AWDMPF8BB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	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:	AWDMPF8BB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/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	Measurement	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

6. Restricted Bands Requirement

6.1 Test Standard and Limit

6.1.1 Test Standard

FCC Part 15.247(d)

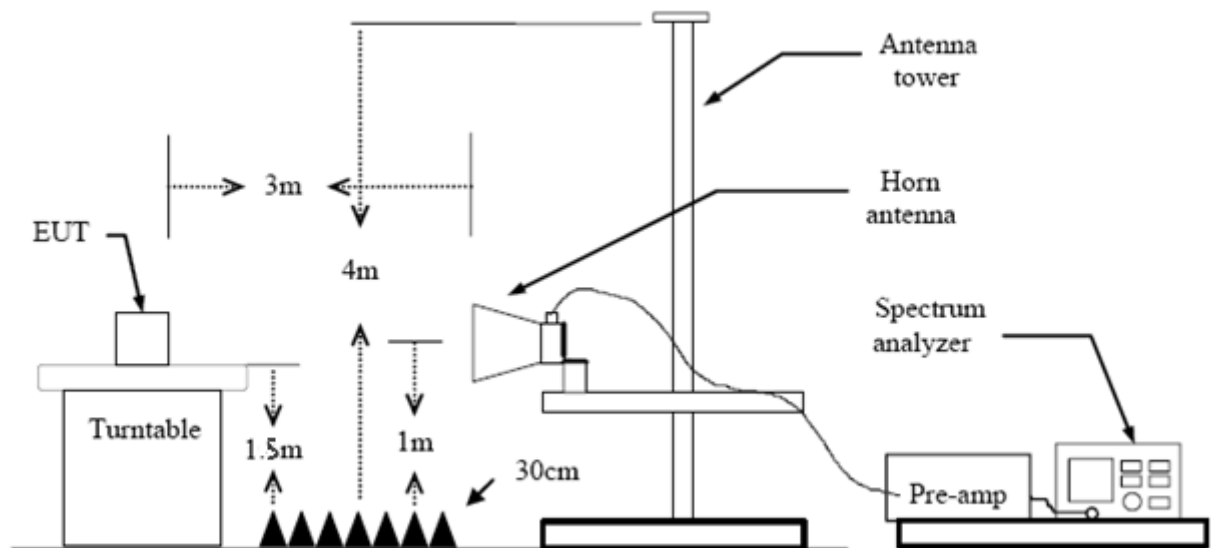
FCC Part 15.209

FCC Part 15.205

6.1.2 Test Limit

Restricted Frequency Band (MHz)	Distance of 3m (dBuV/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

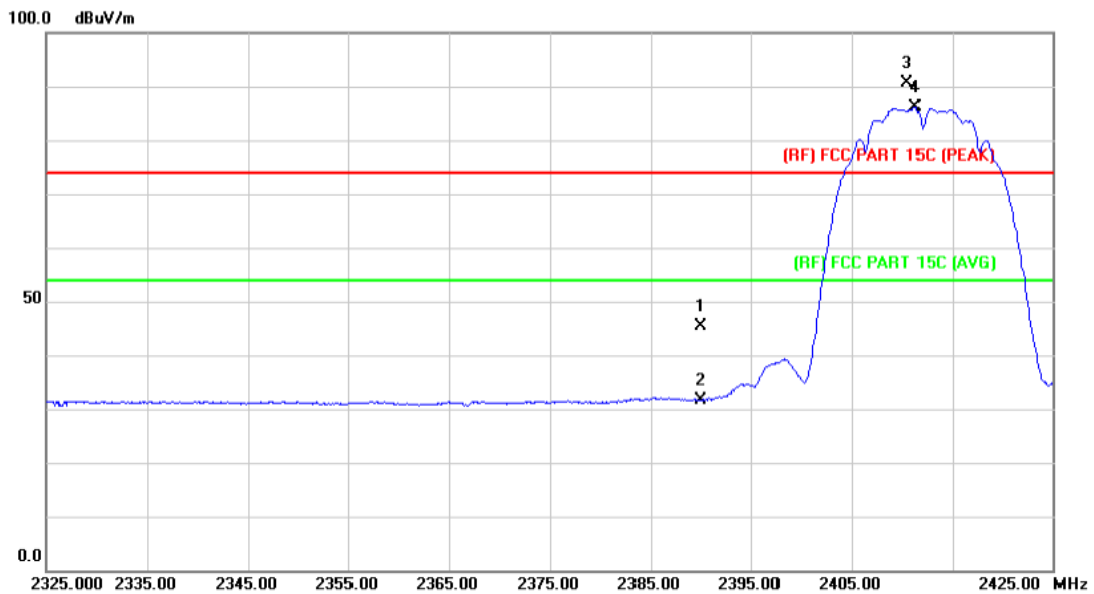
The Equipment Under Test was set to Continual Transmitting in maximum power.

6.5 Test Data

Please see the next page.

(1) Radiation Test

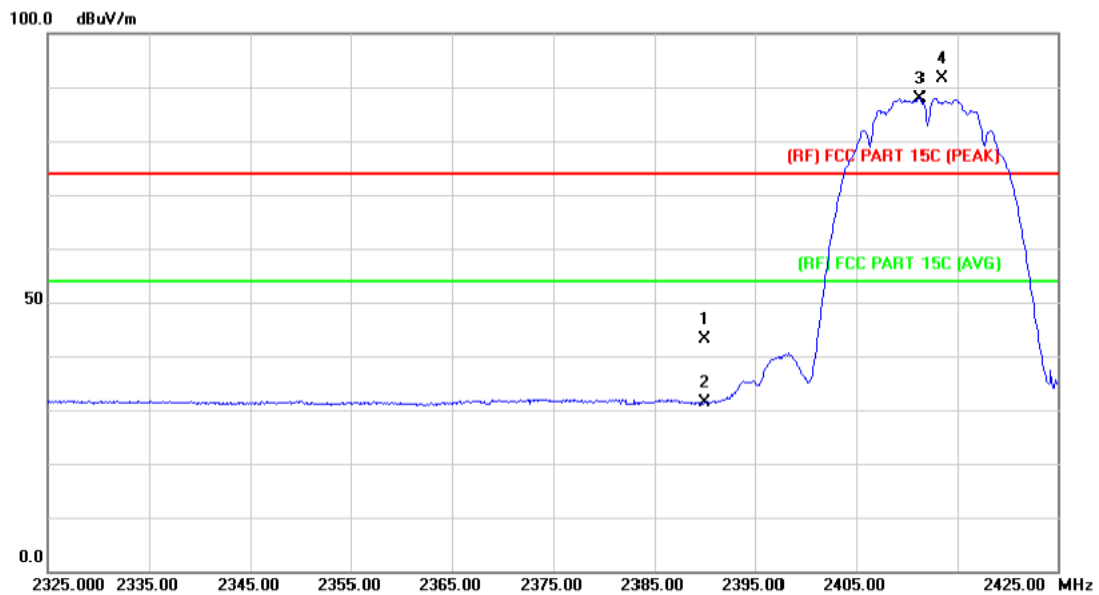
EUT:	8inch wifi cloud digital photo frame	Model:	AWDMPF8BB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	44.50	0.77	45.27	74.00	-28.73	peak
2		2390.000	30.94	0.77	31.71	54.00	-22.29	AVG
3	X	2410.600	89.88	0.86	90.74	Fundamental Frequency		peak
4	*	2411.300	85.21	0.86	86.07	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

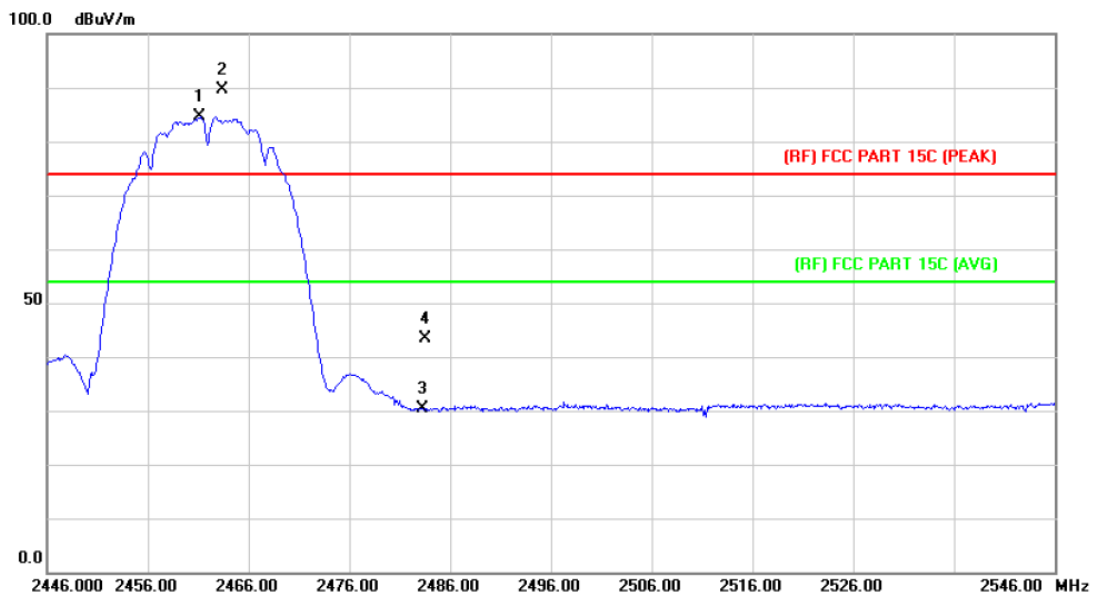
EUT:	8inch wifi cloud digital photo frame	Model:	AWDMPF8BB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	42.48	0.77	43.25	74.00	-30.75	peak
2		2390.000	30.50	0.77	31.27	54.00	-22.73	AVG
3	*	2411.300	87.09	0.86	87.95	Fundamental Frequency		AVG
4	X	2413.500	90.68	0.86	91.54	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

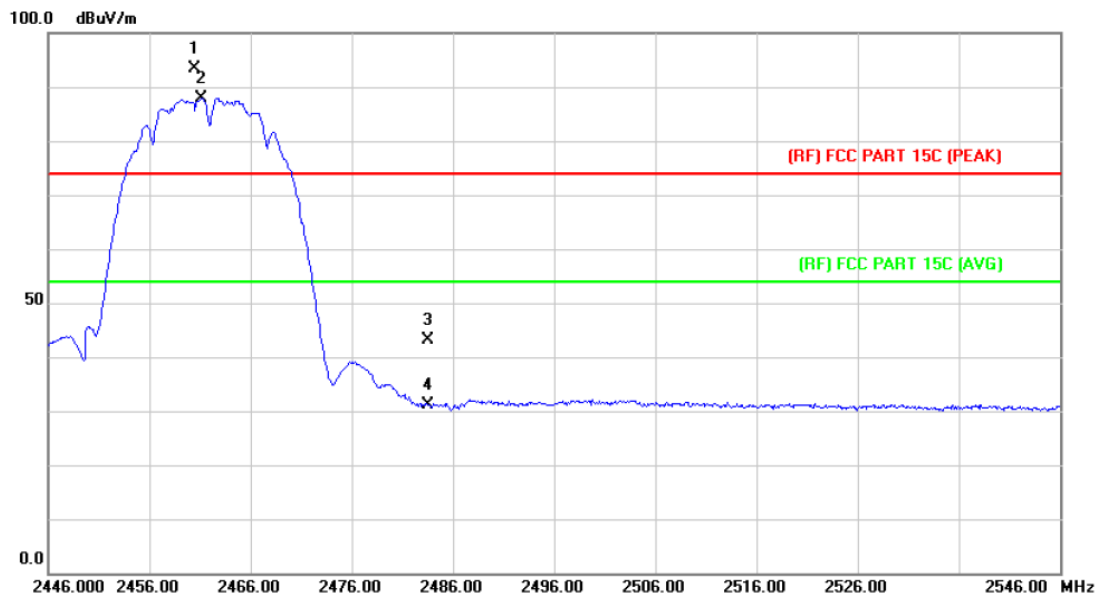
EUT:	8inch wifi cloud digital photo frame	Model:	AWDMPF8BB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	2461.200	83.50	1.07	84.57	Fundamental Frequency		AVG
2	X	2463.400	88.60	1.08	89.68	Fundamental Frequency		peak
3		2483.300	29.22	1.17	30.39	54.00	-23.61	AVG
4		2483.500	42.23	1.17	43.40	74.00	-30.60	peak

Emission Level= Read Level+ Correct Factor

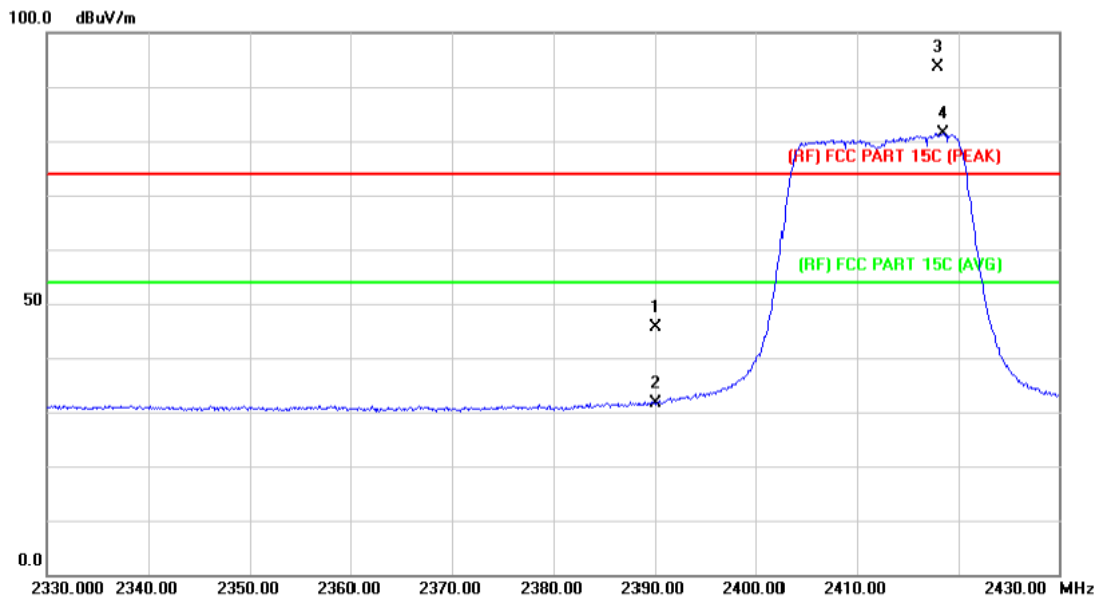
EUT:	8inch wifi cloud digital photo frame	Model:	AWDMPF8BB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2460.500	92.37	1.06	93.43	Fundamental Frequency		peak
2	*	2461.200	86.84	1.07	87.91	Fundamental Frequency		AVG
3		2483.500	41.92	1.17	43.09	74.00	-30.91	peak
4		2483.500	30.05	1.17	31.22	54.00	-22.78	AVG

Emission Level= Read Level+ Correct Factor

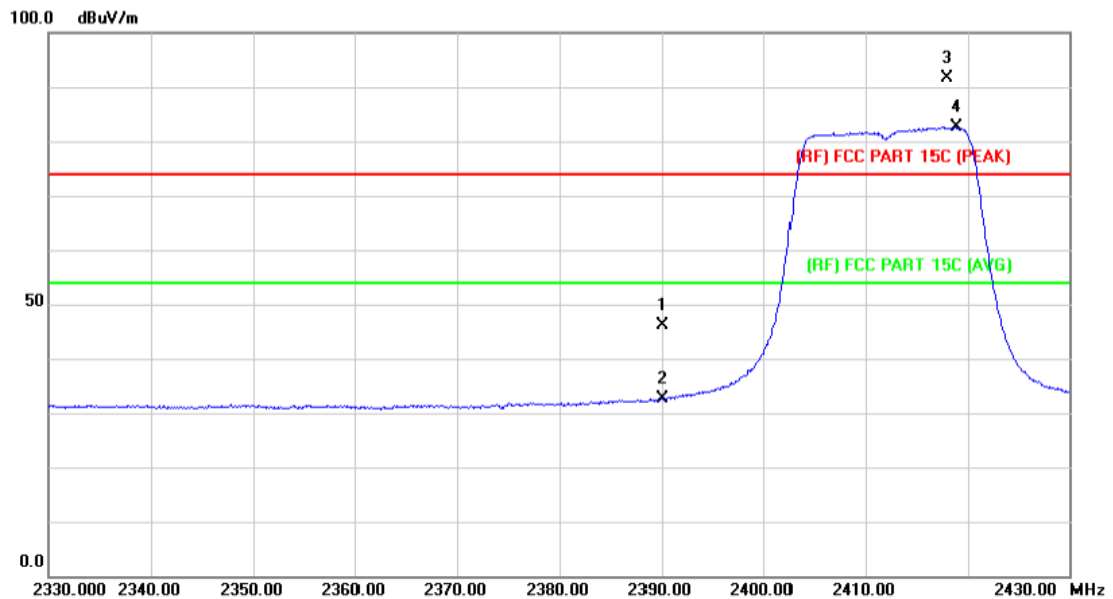
EUT:	8inch wifi cloud digital photo frame	Model:	AWDMPF8BB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	44.87	0.77	45.64	74.00	-28.36	peak
2		2390.000	30.83	0.77	31.60	54.00	-22.40	AVG
3	X	2417.900	92.73	0.89	93.62	Fundamental Frequency		peak
4	*	2418.400	80.55	0.89	81.44	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

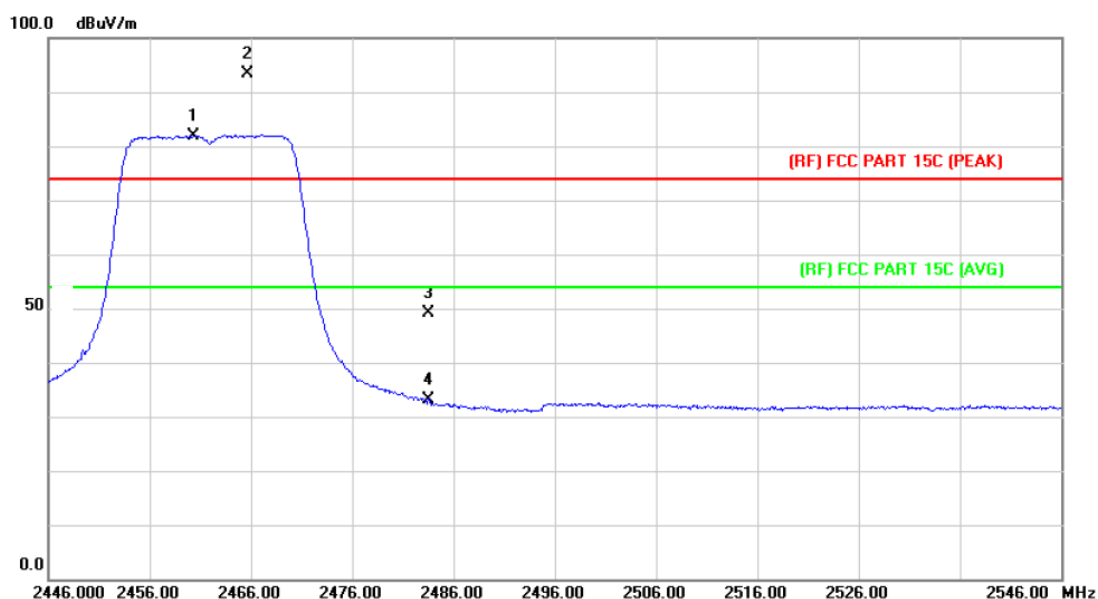
EUT:	8inch wifi cloud digital photo frame	Model:	AWDMPF8BB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	45.46	0.77	46.23	74.00	-27.77	peak
2		2390.000	31.83	0.77	32.60	54.00	-21.40	AVG
3	X	2417.900	90.63	0.89	91.52	Fundamental Frequency		peak
4	*	2418.800	81.64	0.89	82.53	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

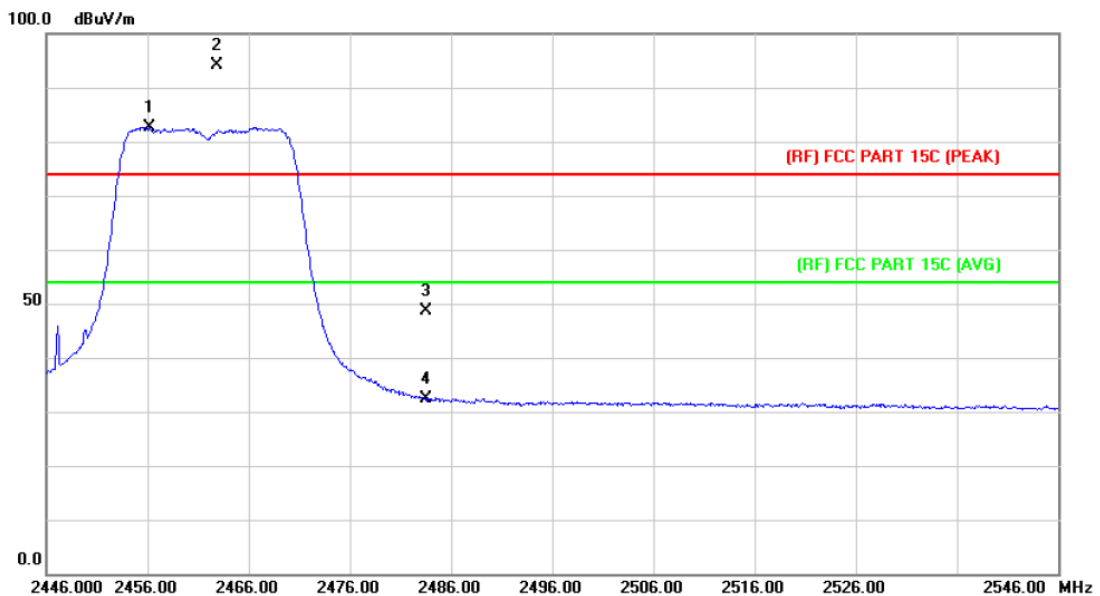
EUT:	8inch wifi cloud digital photo frame	Model:	AWDMPF8BB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	2460.300	80.80	1.06	81.86	Fundamental Frequency		AVG
2	X	2465.700	92.30	1.09	93.39	Fundamental Frequency		peak
3		2483.500	47.99	1.17	49.16	74.00	-24.84	peak
4		2483.500	32.08	1.17	33.25	54.00	-20.75	AVG

Emission Level= Read Level+ Correct Factor

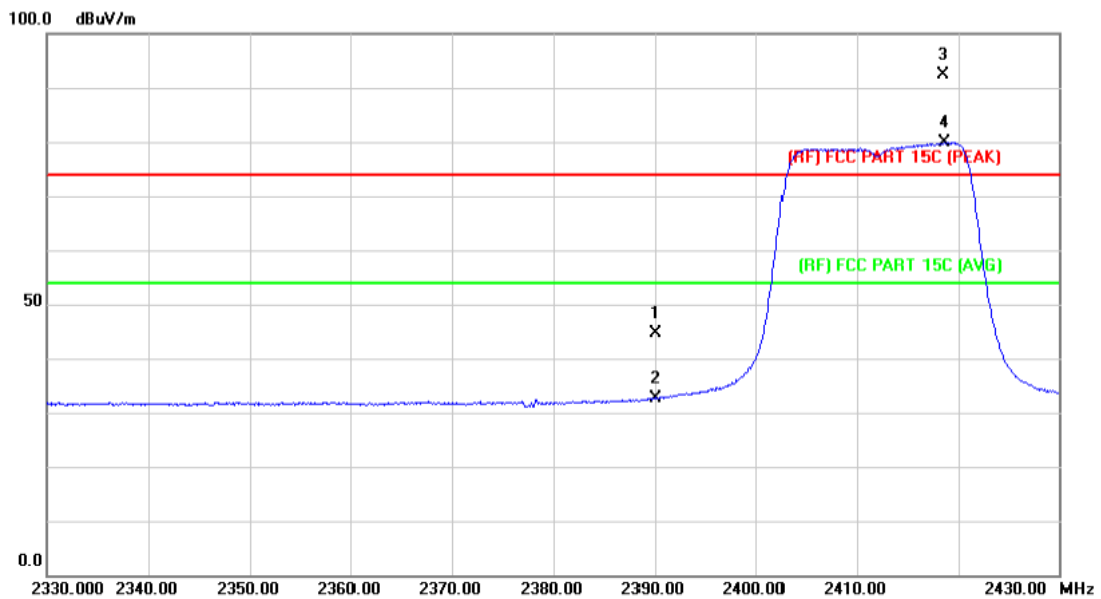
EUT:	8inch wifi cloud digital photo frame	Model:	AWDMPF8BB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	2456.200	81.57	1.05	82.62	Fundamental Frequency		AVG
2	X	2462.900	93.11	1.08	94.19	Fundamental Frequency		peak
3		2483.500	47.47	1.17	48.64	74.00	-25.36	peak
4		2483.500	31.21	1.17	32.38	54.00	-21.62	AVG

Emission Level= Read Level+ Correct Factor

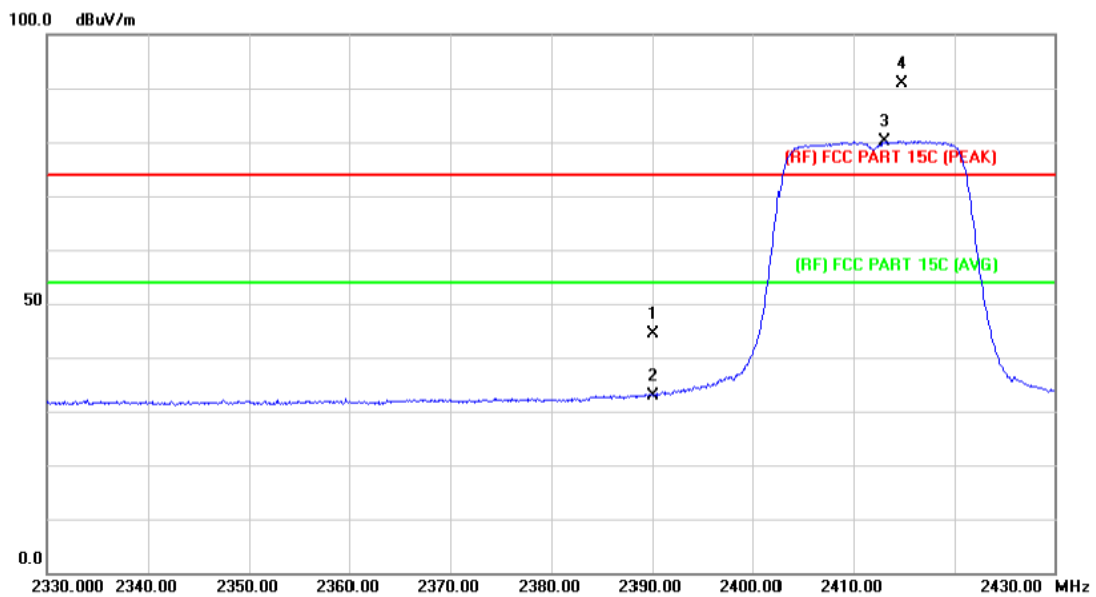
EUT:	8inch wifi cloud digital photo frame	Model:	AWDMPF8BB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	43.90	0.77	44.67	74.00	-29.33	peak
2		2390.000	31.92	0.77	32.69	54.00	-21.31	AVG
3	X	2418.500	91.47	0.89	92.36	Fundamental Frequency		peak
4	*	2418.600	78.99	0.89	79.88	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

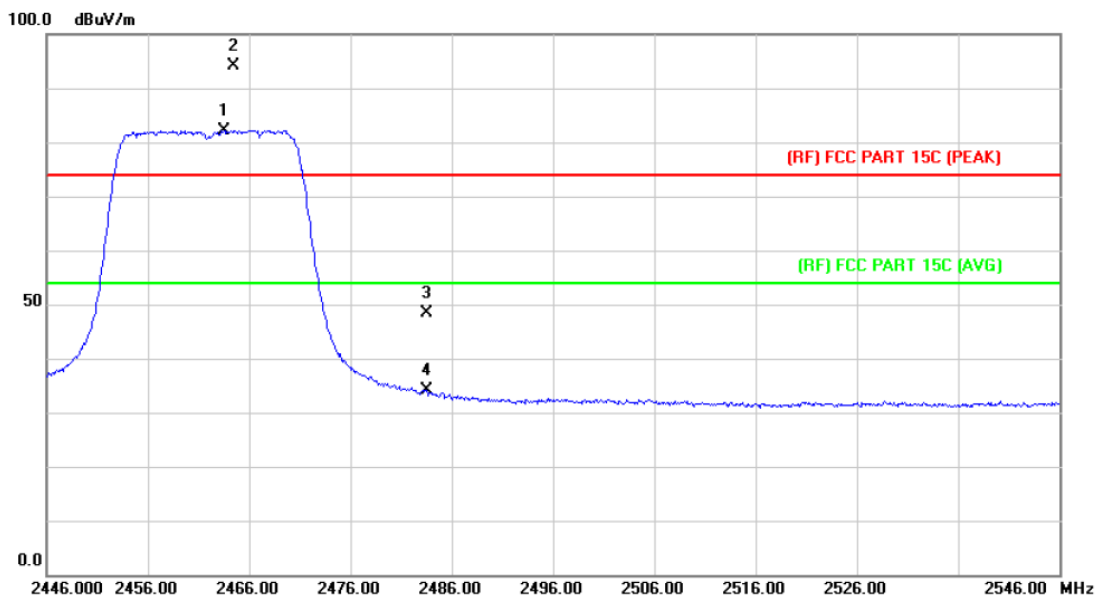
EUT:	8inch wifi cloud digital photo frame	Model:	AWDMPF8BB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	43.59	0.77	44.36	74.00	-29.64	peak
2		2390.000	32.23	0.77	33.00	54.00	-21.00	AVG
3	*	2413.200	79.36	0.86	80.22	Fundamental Frequency		AVG
4	X	2414.800	89.88	0.88	90.76	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

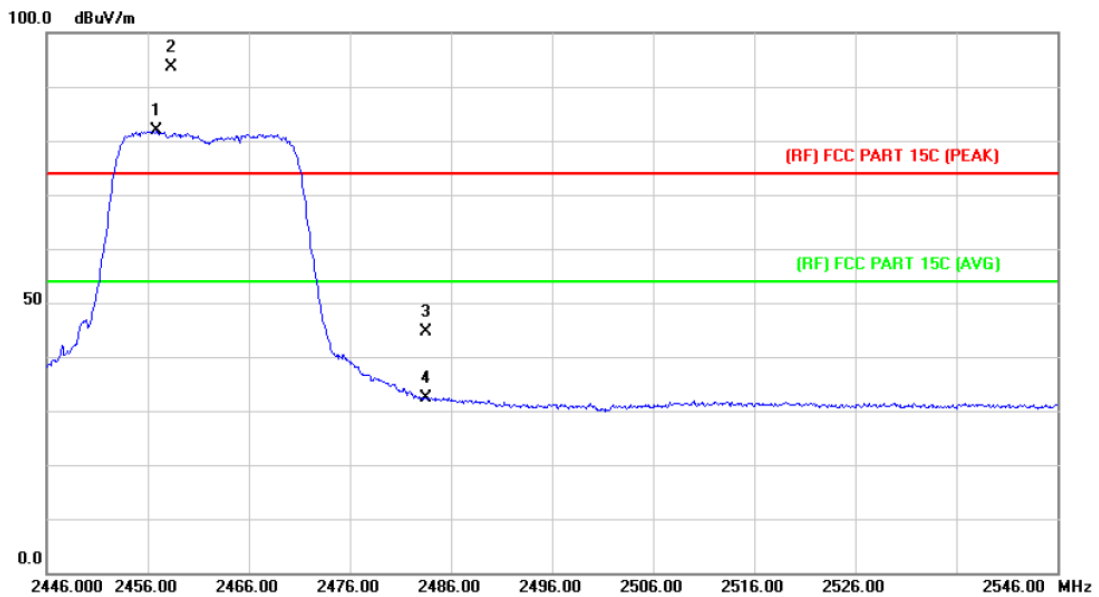
EUT:	8inch wifi cloud digital photo frame	Model:	AWDMPF8BB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over 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 ²		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

EUT:	8inch wifi cloud digital photo frame	Model:	AWDMPF8BB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2462MHz		
Remark:	N/A		

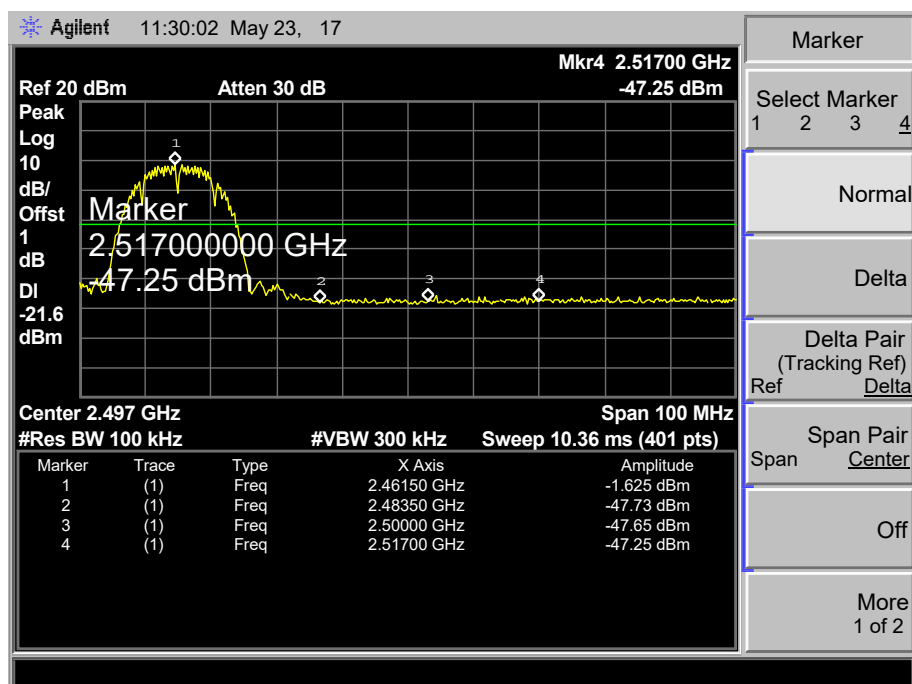
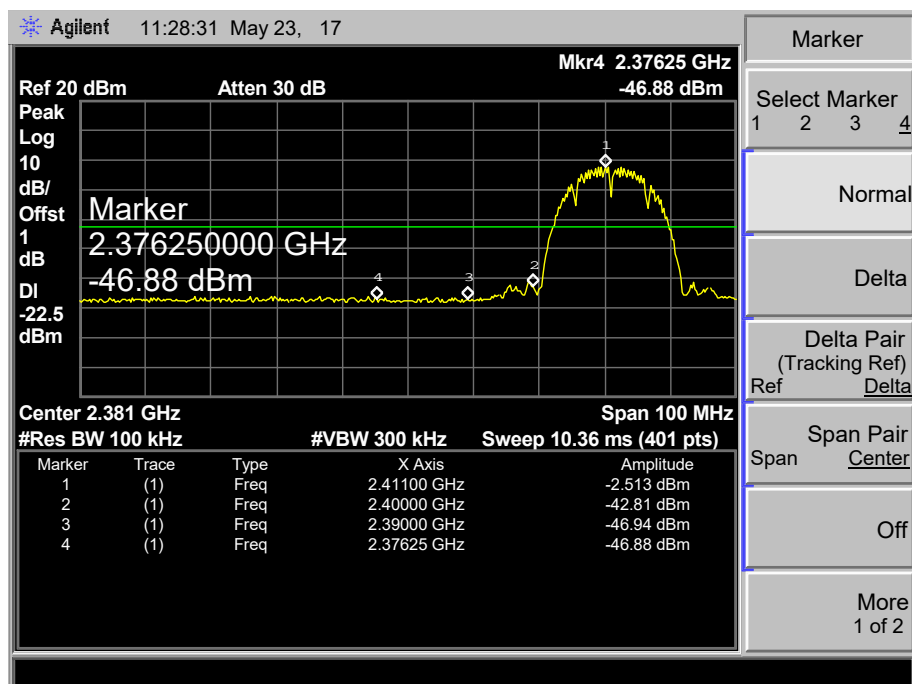


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	2456.900	80.73	1.05	81.78	Fundamental Frequency		AVG
2	X	2458.300	92.59	1.06	93.65	Fundamental Frequency		peak
3		2483.500	43.48	1.17	44.65	74.00	-29.35	peak
4		2483.500	31.15	1.17	32.32	54.00	-21.68	AVG

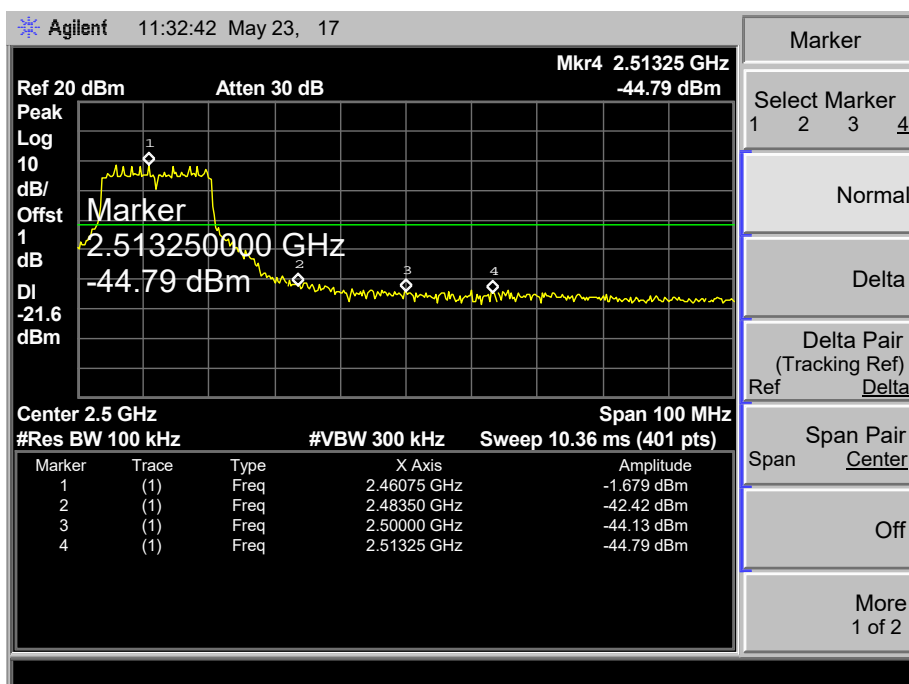
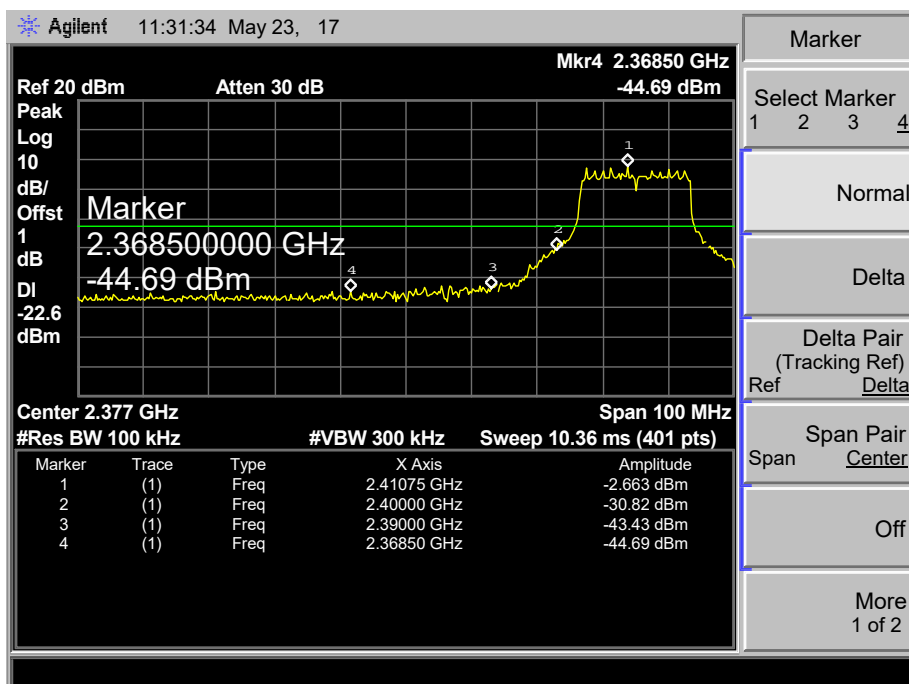
Emission Level= Read Level+ Correct Factor

(2) Conducted Test

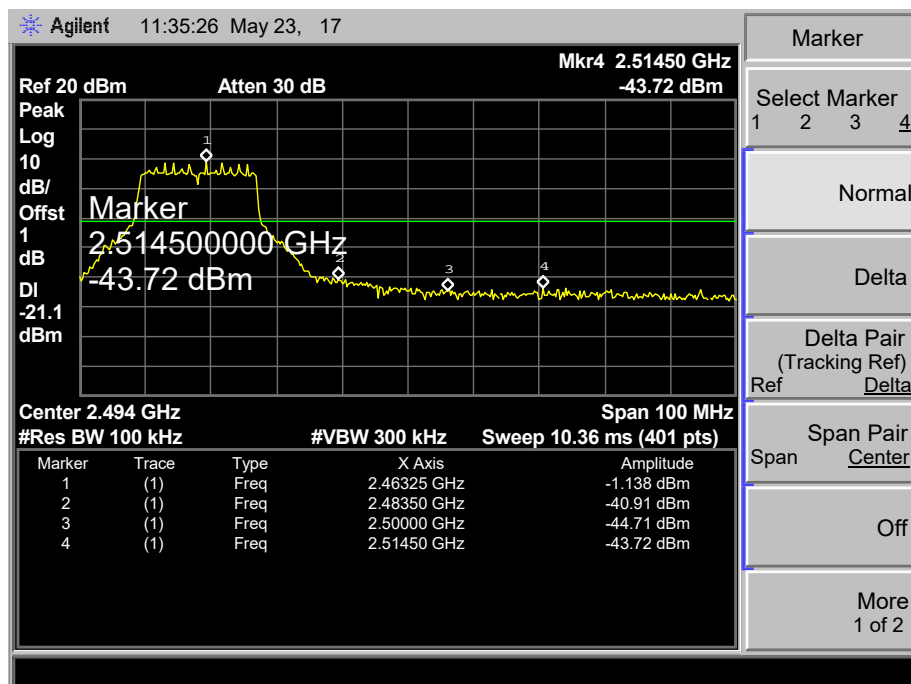
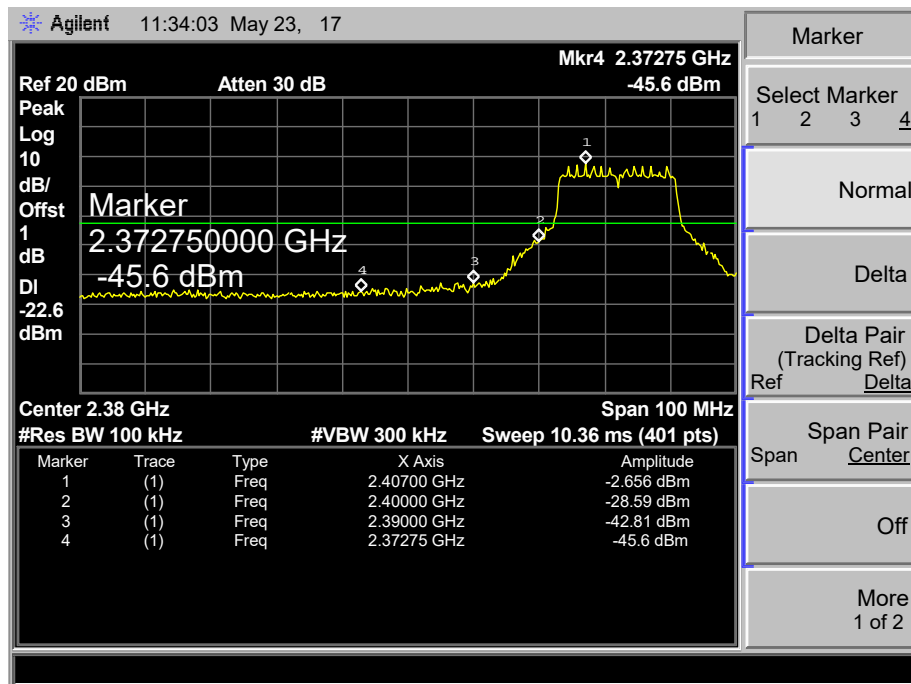
EUT:	8inch wifi cloud digital photo frame	Model:	AWDMPF8BB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Test Mode:	TX B Mode 2412MHz / TX B Mode 2462MHz		
Remark:	The EUT is programed in continuously transmitting mode		



EUT:	8inch wifi cloud digital photo frame	Model:	AWDMPF8BB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/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:	AWDMPF8BB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/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

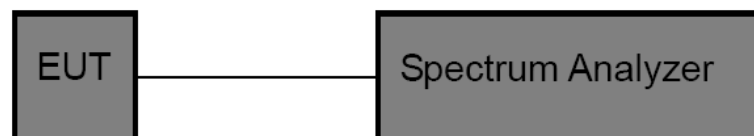
7.1.1 Test Standard

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:	AWDMPF8BB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Test Mode:	TX 802.11B Mode		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	11.0920	15.4820	>=0.5
2437	11.0830	15.4355	
2462	10.1300	15.4628	
802.11B Mode			
2412 MHz			

Agilent10:26:20 May 23, 17

Ch Freq2.412 GHzTrigFree

Occupied Bandwidth

Center 2.41200000 GHz

Ref 20 dBmAtten 30 dB

#Peak

Log

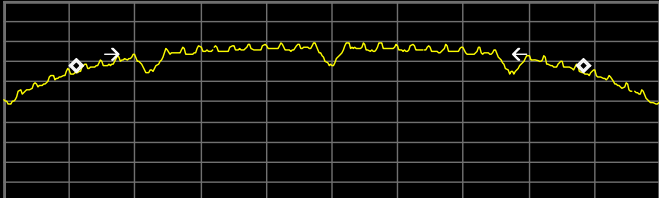
10

dB/

Offst

1

dB



Center 2.412 GHzSpan 20 MHz

#Res BW 100 kHz#VBW 300 kHzSweep 4 ms (401 pts)

Occupied Bandwidth

15.4820 MHz

Transmit Freq Error-83.309 kHz

x dB Bandwidth11.092 MHz

Occ BW % Pwr99.00 %

x dB-6.00 dB

Freq/Channel

Center Freq2.41200000 GHz

Start Freq2.40200000 GHz

Stop Freq2.42200000 GHz

CF Step2.00000000 MHz

AutoMan

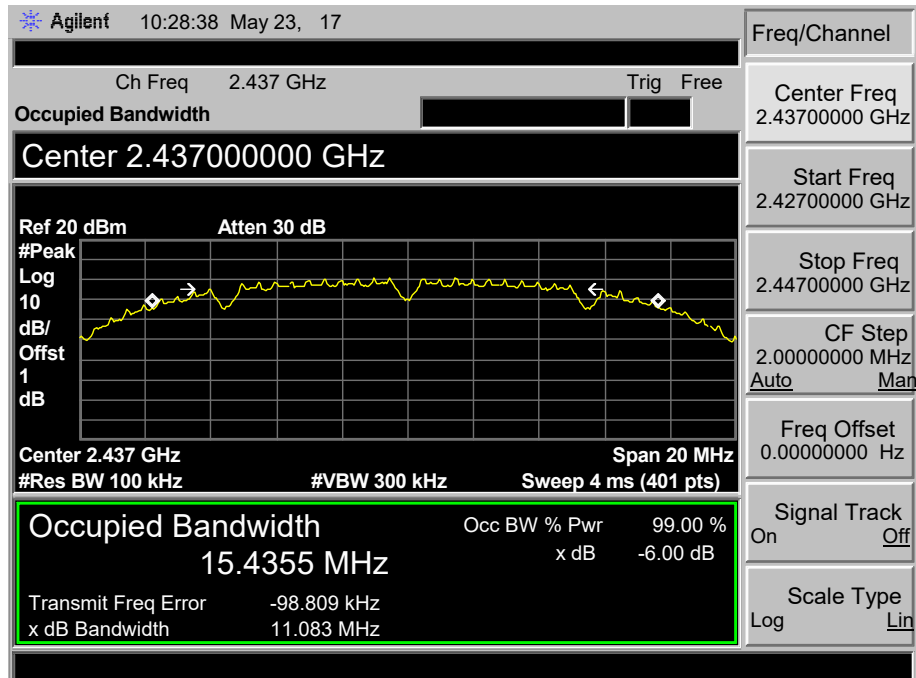
Freq Offset0.00000000 Hz

Signal TrackOnOff

Scale TypeLogLin

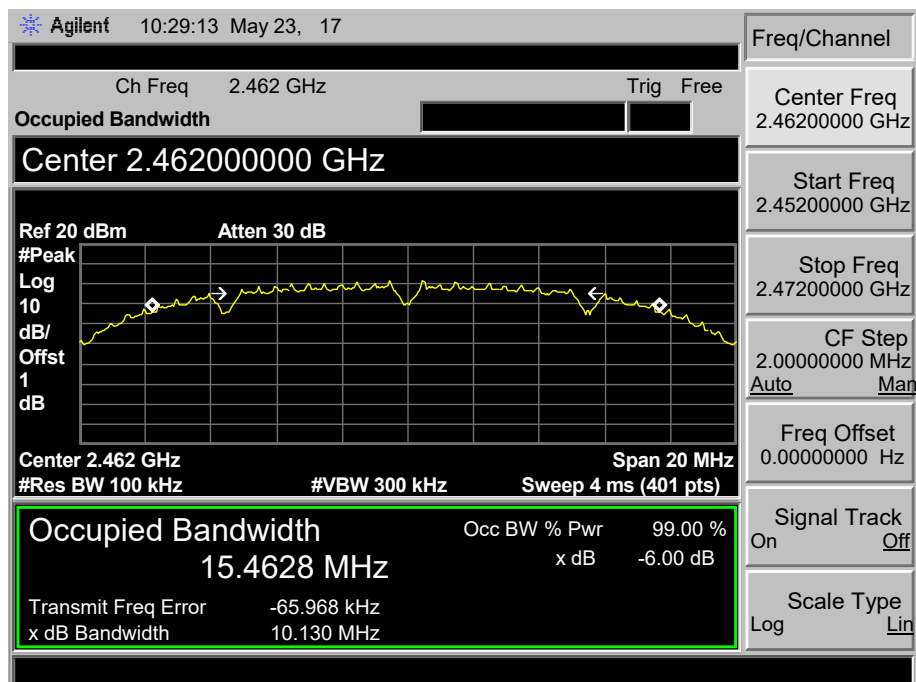
802.11B Mode

2437 MHz



802.11B Mode

2462 MHz



EUT:	8inch wifi cloud digital photo frame	Model:	AWDMPF8BB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Test Mode:	TX 802.11G Mode		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	16.3660	16.5504	>=0.5
2437	16.4410	16.5704	
2462	16.3820	16.5191	

802.11G Mode

2412 MHz

Agilent10:30:11 May 23, 17

Ch Freq2.412 GHzTrigFree

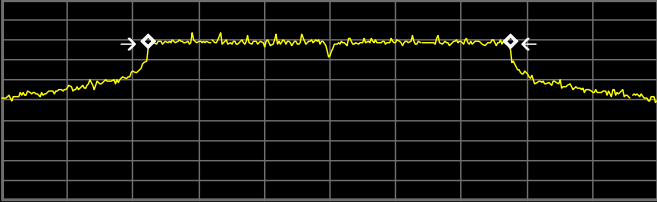
Occupied Bandwidth

Center 2.41200000 GHz

Ref 20 dBmAtten 30 dB

#Peak

Log 10 dB/ Offst 1 dB



Center 2.412 GHzSpan 30 MHz

#Res BW 100 kHz#VBW 300 kHzSweep 4 ms (401 pts)

Occupied Bandwidth16.5504 MHz

Occ BW % Pwr99.00 %

x dB-6.00 dB

Transmit Freq Error-49.810 kHz

x dB Bandwidth16.366 MHz

Freq/Channel

Center Freq2.41200000 GHz

Start Freq2.39700000 GHz

Stop Freq2.42700000 GHz

CF Step3.00000000 MHz

AutoMan

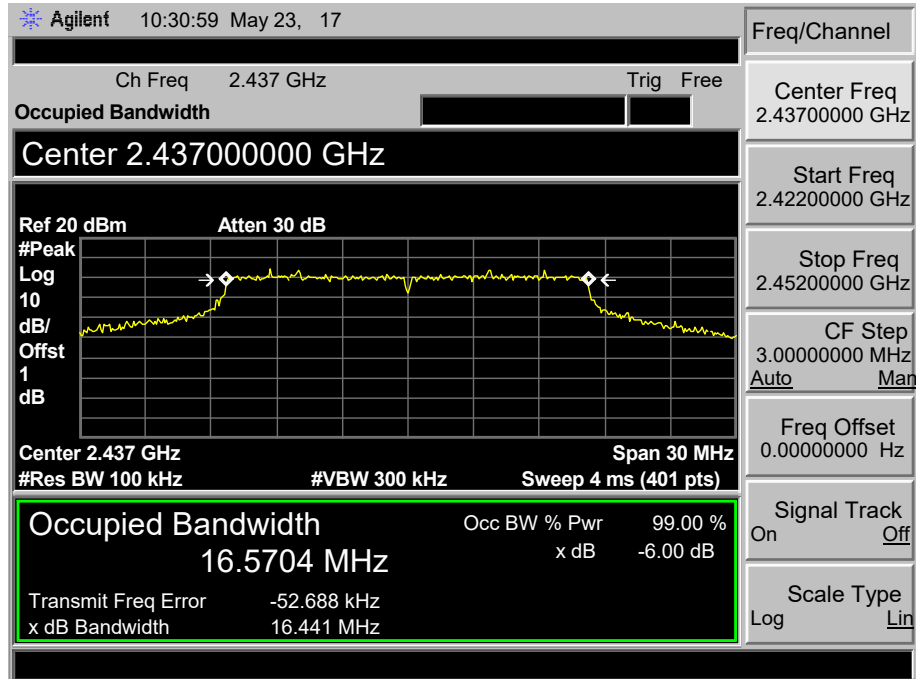
Freq Offset0.00000000 Hz

Signal TrackOnOff

Scale TypeLogLin

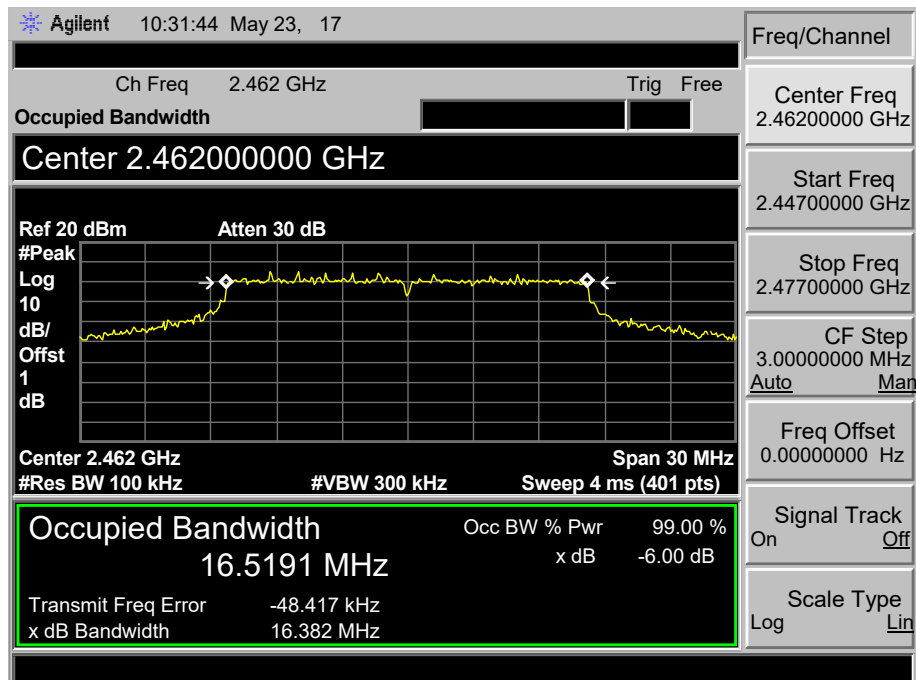
802.11G Mode

2437 MHz



802.11G Mode

2462 MHz



EUT:	8inch wifi cloud digital photo frame	Model:	AWDMPF8BB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Test Mode:	TX 802.11N(HT20) Mode		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	17.6540	17.7670	>=0.5
2437	17.6590	17.7754	
2462	17.6250	17.7705	

802.11N(HT20) Mode

2412 MHz

Agilent10:32:40 May 23, 17

Ch Freq2.412 GHzTrigFree

Occupied Bandwidth

Center 2.41200000 GHz

Ref 20 dBmAtten 30 dB

#Peak

Log

10

dB/

Offst

1

dB

Center 2.412 GHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 4 ms (401 pts)

Span 30 MHz

Occupied Bandwidth

17.7670 MHz

Occ BW % Pwr

99.00 %

x dB

-6.00 dB

Transmit Freq Error

-50.125 kHz

x dB Bandwidth

17.654 MHz

Freq/Channel

Center Freq

2.41200000 GHz

Start Freq

2.39700000 GHz

Stop Freq

2.42700000 GHz

CF Step

3.00000000 MHz

AutoMan

Freq Offset

0.00000000 Hz

Signal Track

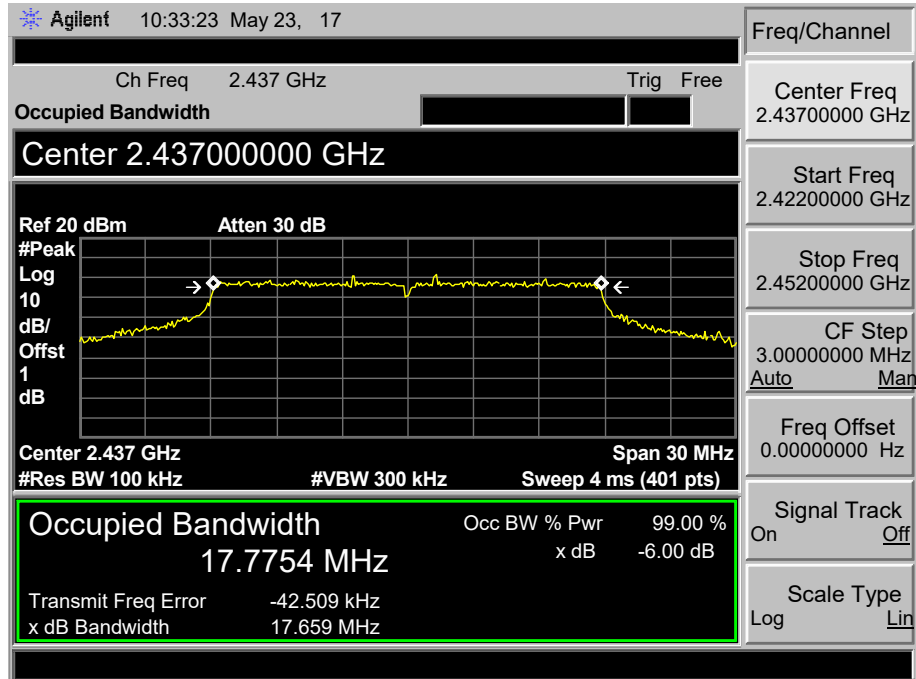
OnOff

Scale Type

LogLin

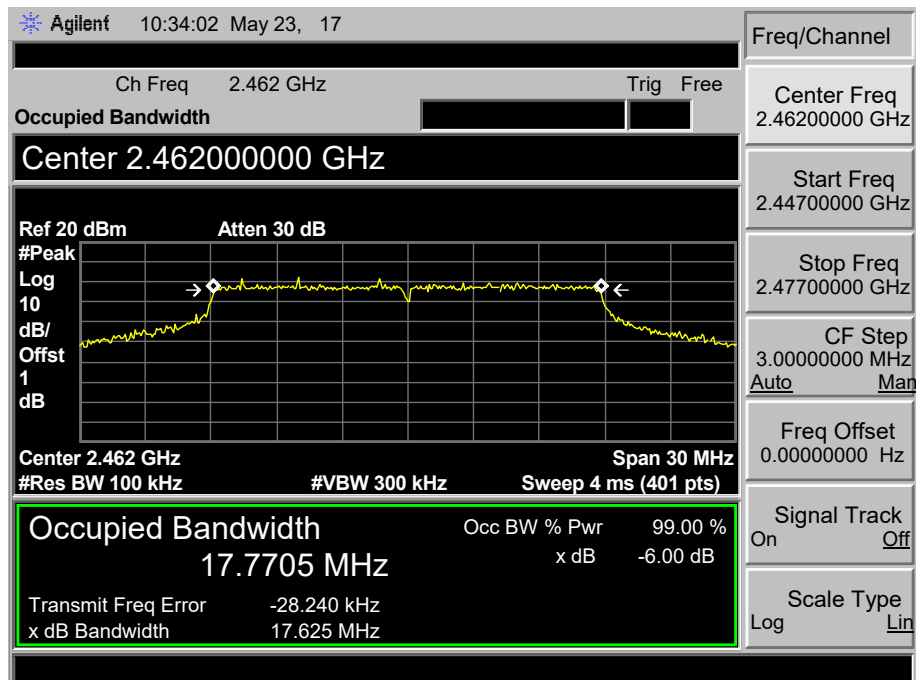
802.11N(HT20) Mode

2437 MHz



802.11N(HT20) Mode

2462 MHz



8. Peak Output Power Test

8.1 Test Standard and Limit

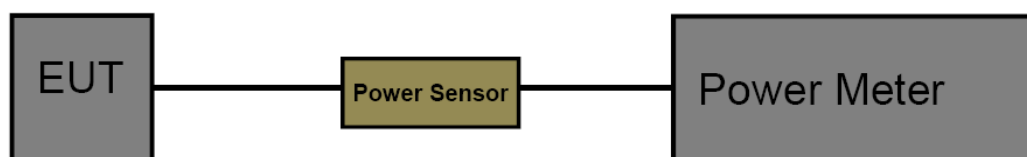
8.1.1 Test Standard

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 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

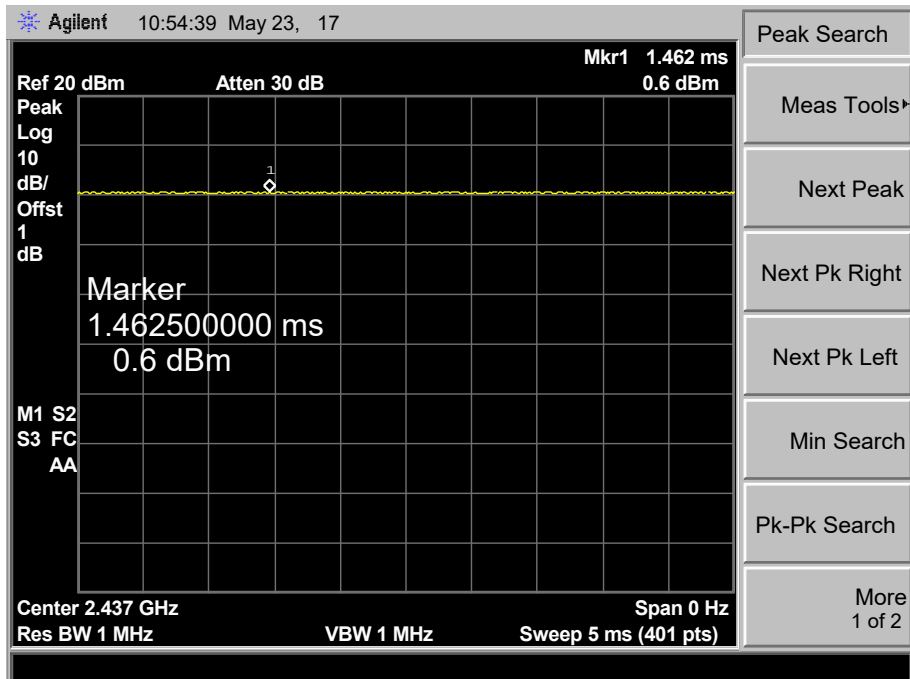
The EUT was set to continuously transmitting in the max power during the test.

8.5 Test Data

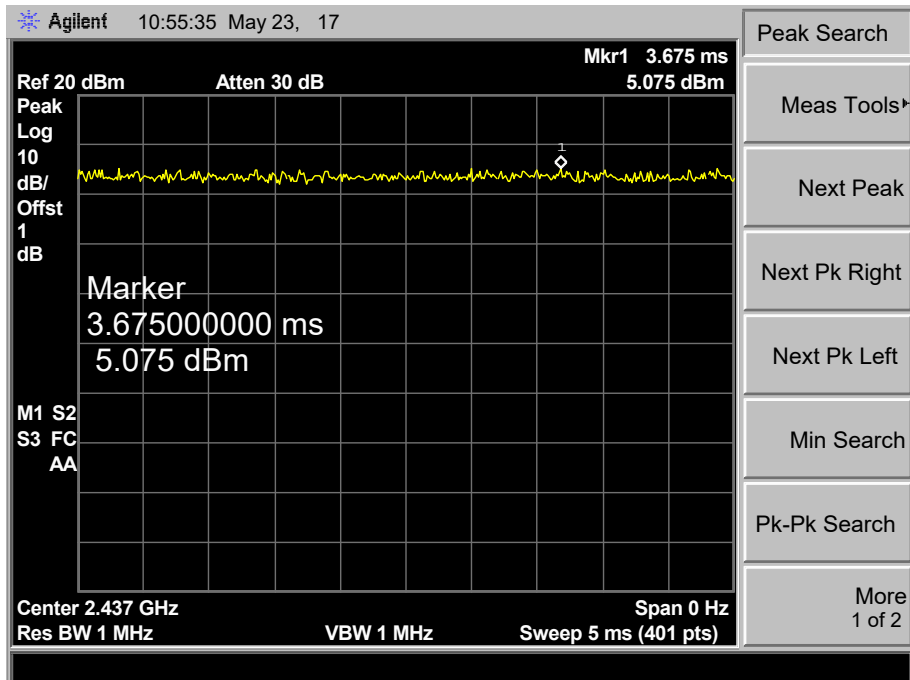
EUT:	8inch wifi cloud digital photo frame	Model:	AWDMPF8BB
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Mode	Channel frequency (MHz)	Test Result (dBm)	Limit (dBm)
802.11b	2412	9.15	30
	2437	9.21	
	2462	9.34	
802.11g	2412	8.95	
	2437	8.86	
	2462	8.75	
802.11n (HT20)	2412	8.84	
	2437	8.95	
	2462	8.81	
Result: PASS			

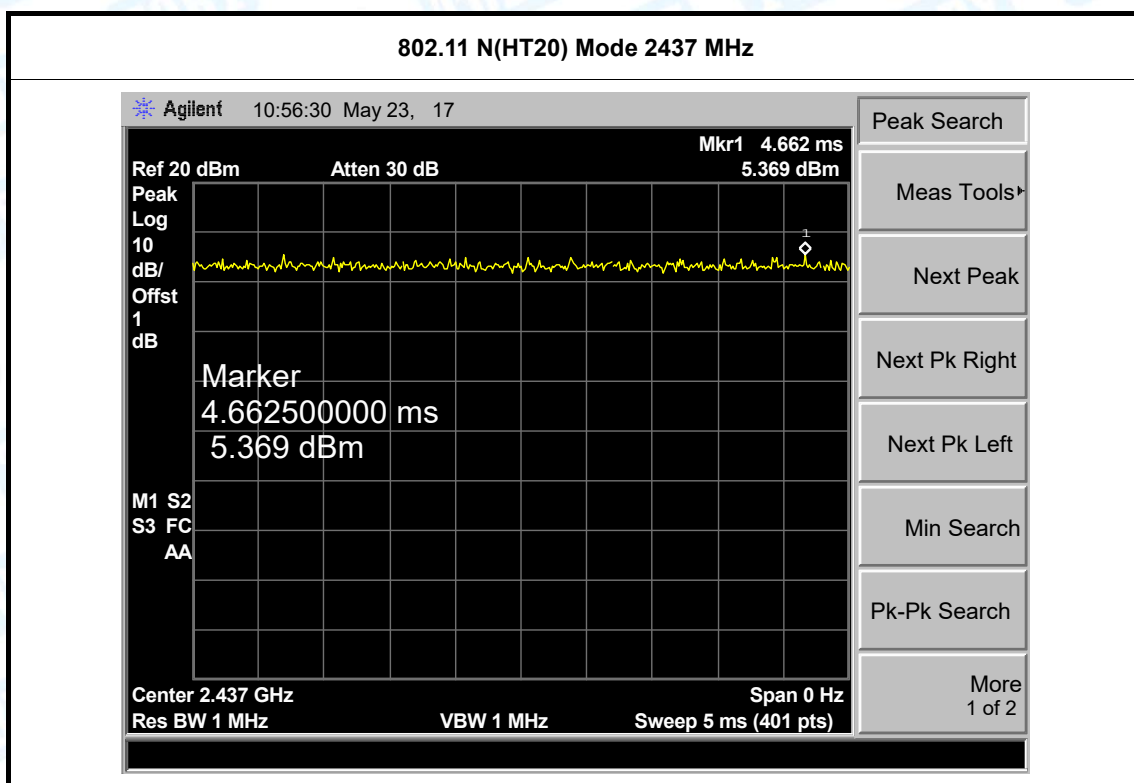
Duty Cycle		
Mode	Channel frequency (MHz)	Test Result
802.11b	2412	>98%
	2437	
	2462	
802.11g	2412	
	2437	
	2462	
802.11n (HT20)	2412	
	2437	
	2462	
Please see below plots		

802.11 B Mode 2437 MHz



802.11 G Mode 2437 MHz





9. Power Spectral Density Test

9.1 Test Standard and Limit

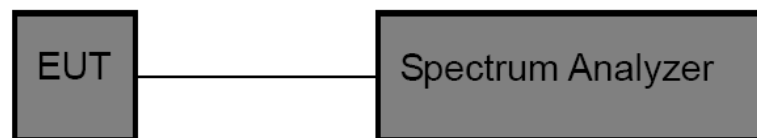
9.1.1 Test Standard

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 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.

9.5 Test Data

EUT:	8inch wifi cloud digital photo frame	Model:	AWDMPF8BB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Test Mode:	TX 802.11B Mode		
Channel Frequency (MHz)		Power Density (3 kHz/dBm)	Limit (dBm)
2412		-15.79	8
2437		-15.61	
2462		-15.56	
802.11B Mode			
2412 MHz			

Agilent10:58:02 May 23, 17

Ref 20 dBmAtten 30 dB

Mkr1 2.41260 GHz-15.79 dBm

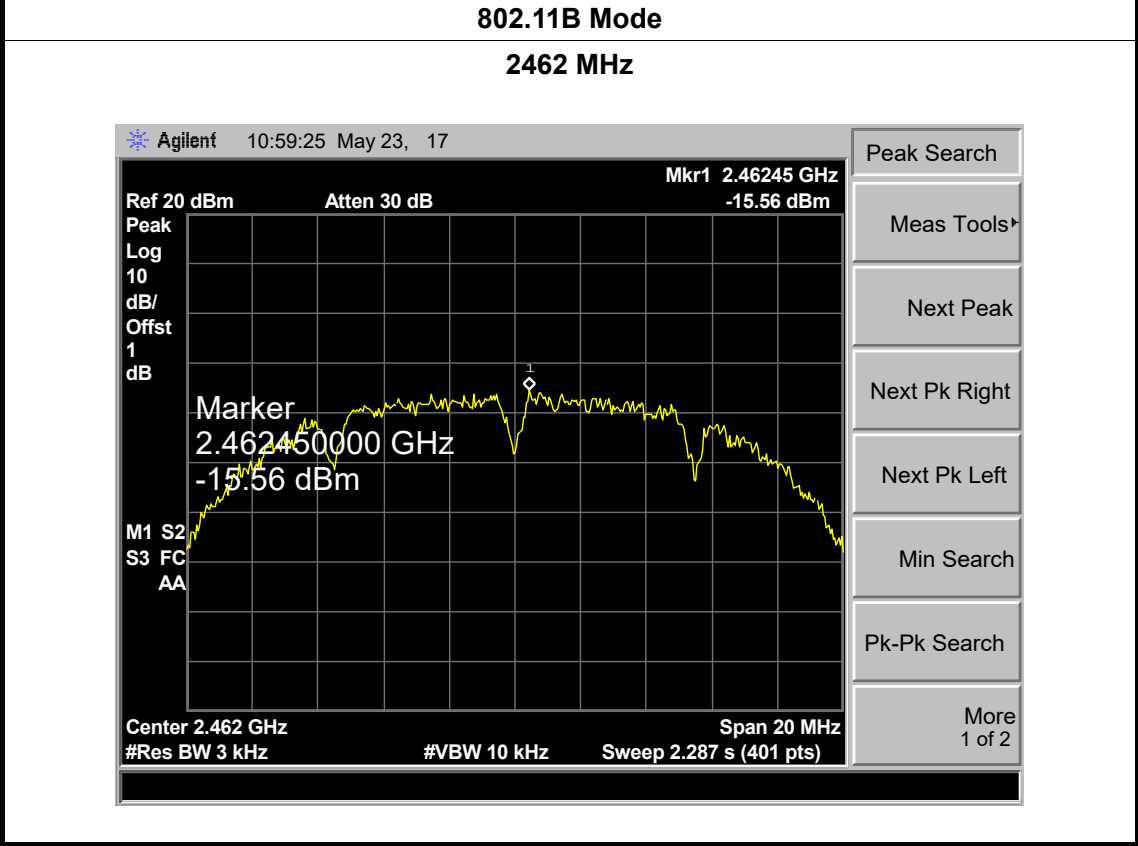
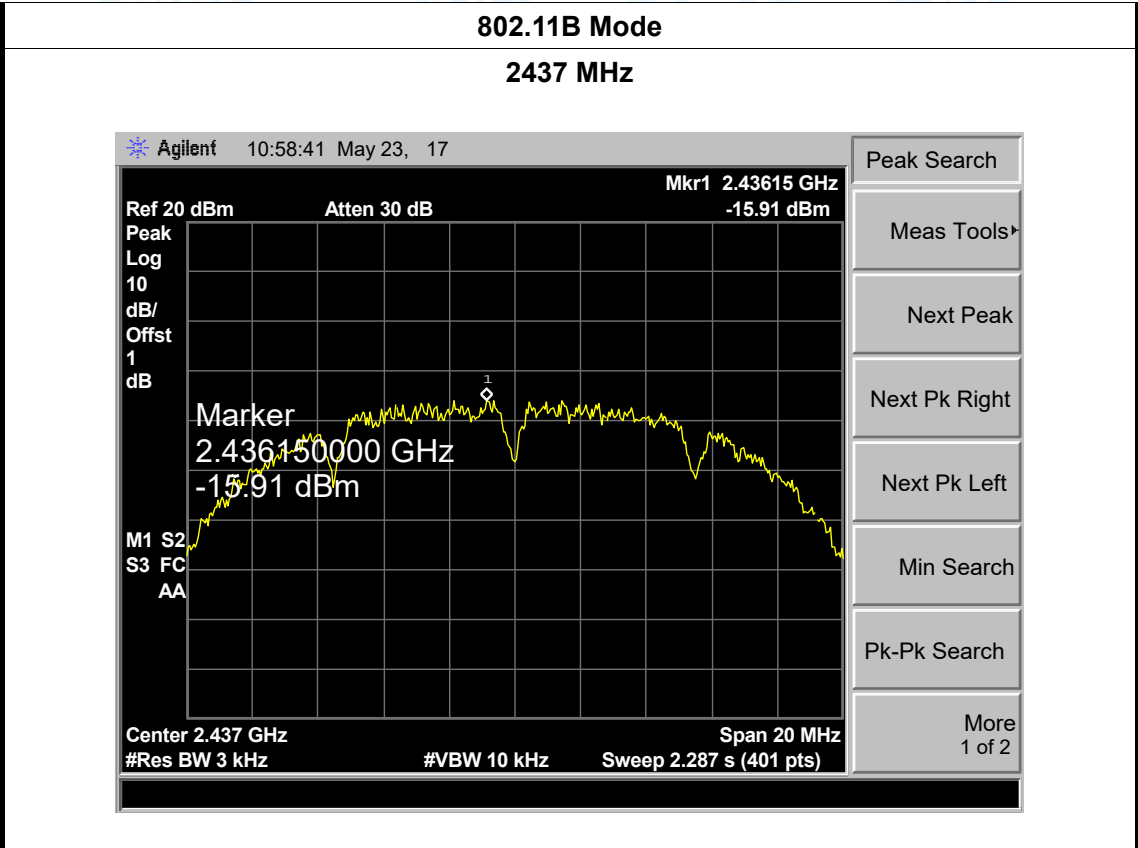
Peak SearchMeas ToolsNext PeakNext Pk RightNext Pk LeftMin SearchPk-Pk SearchMore1 of 2

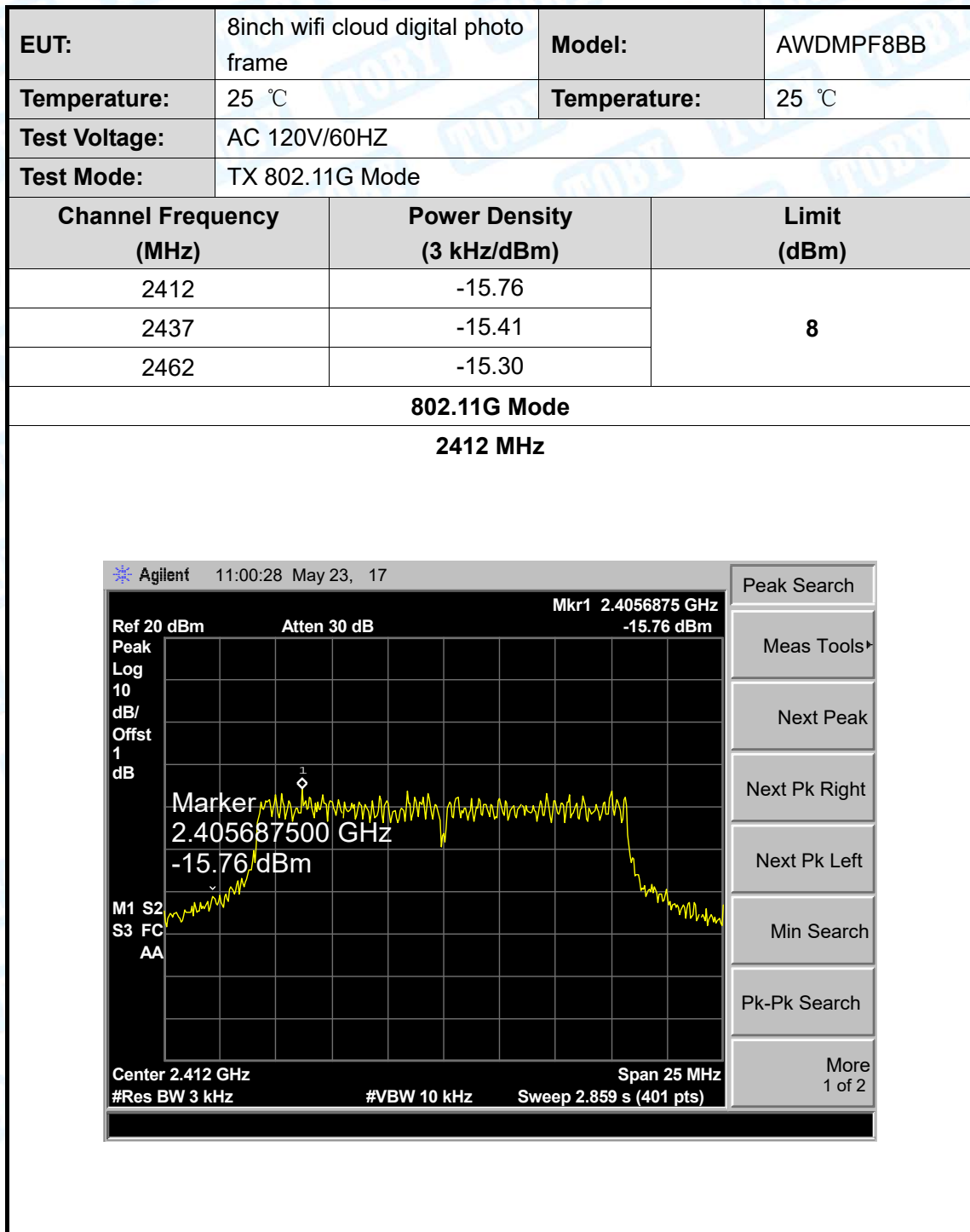
Peak Log 10 dB/ Offst 1 dB

Marker2.41260000 GHz-15.79 dBm

M1 S2S3 FC AA

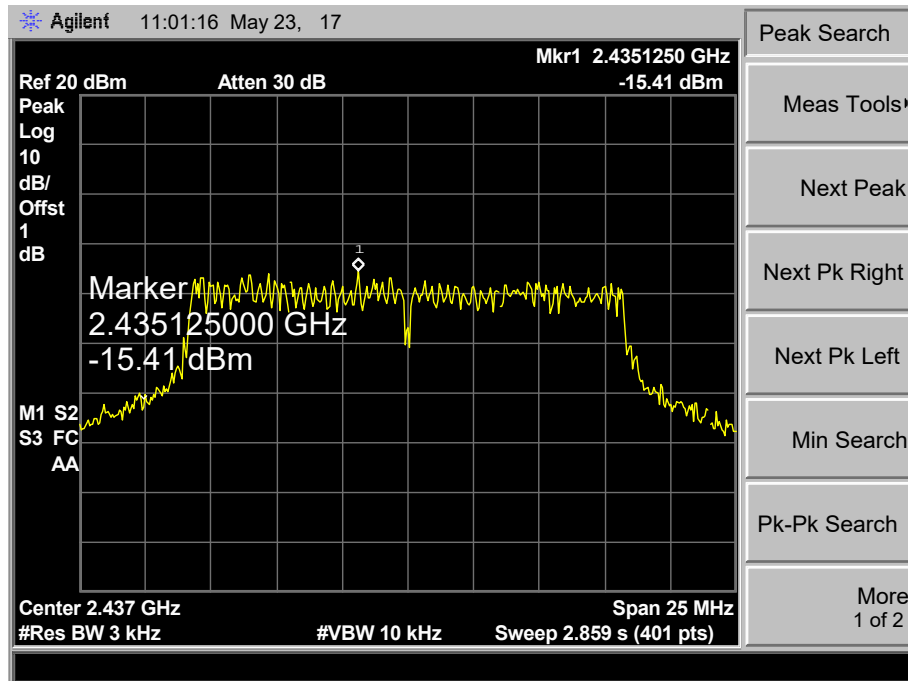
Center 2.412 GHz#Res BW 3 kHz#VBW 10 kHzSweep 2.287 s (401 pts)Span 20 MHz





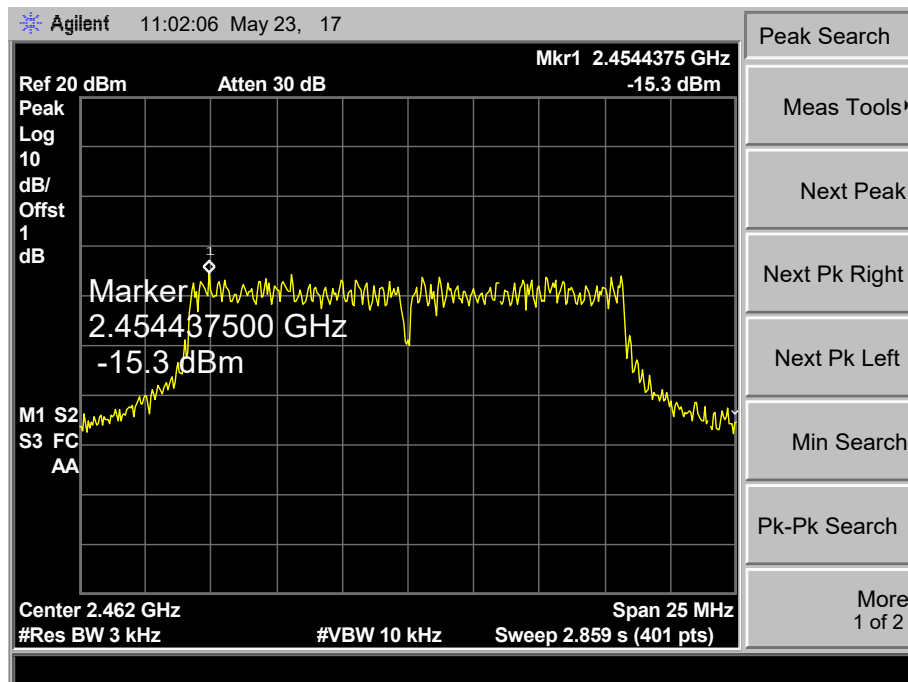
802.11G Mode

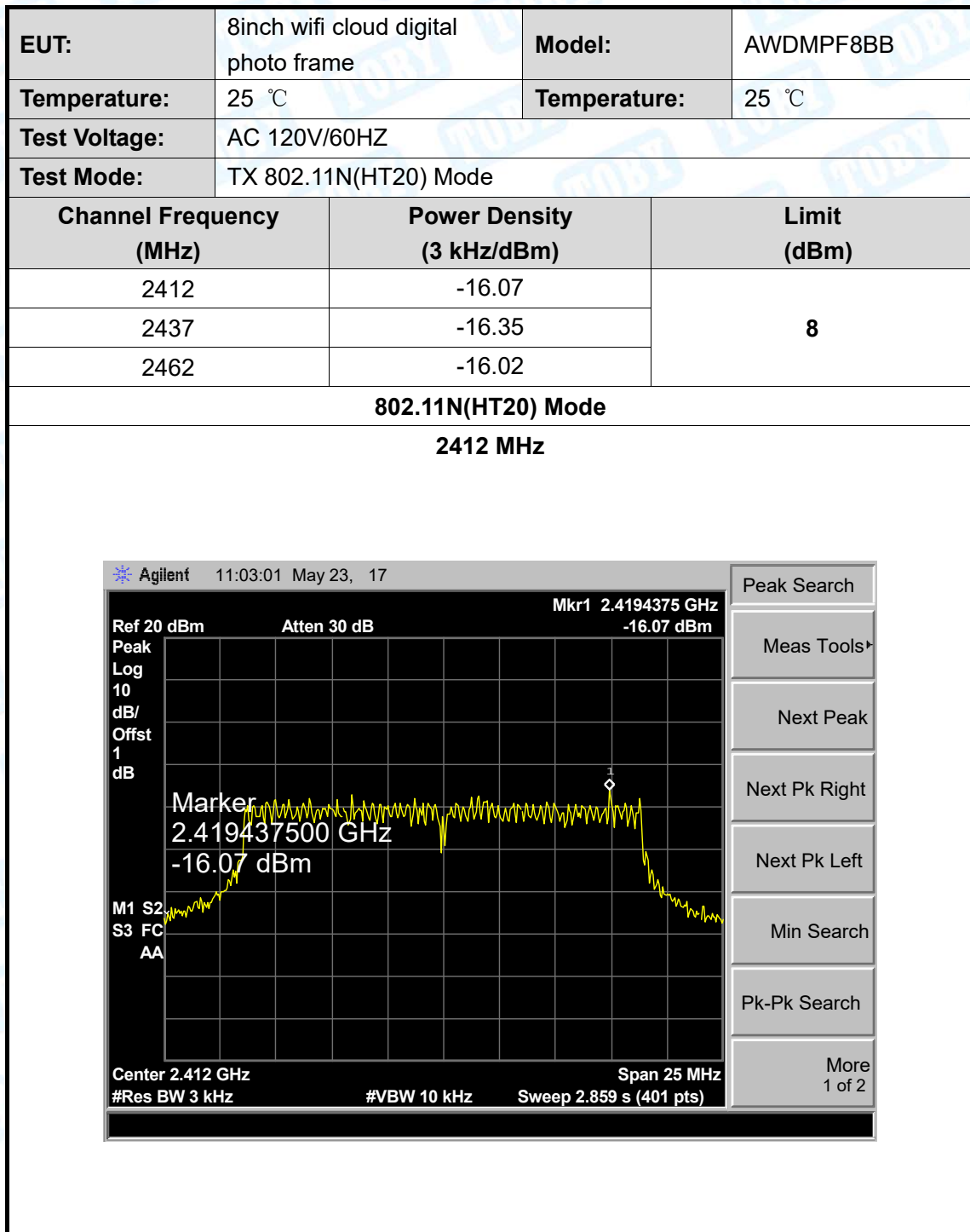
2437 MHz



802.11G Mode

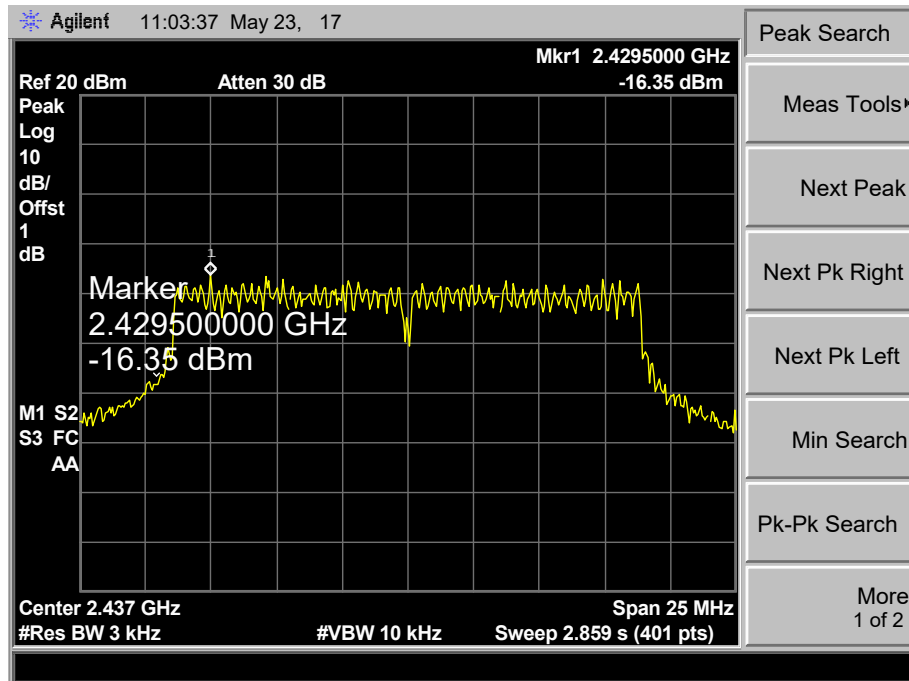
2462 MHz





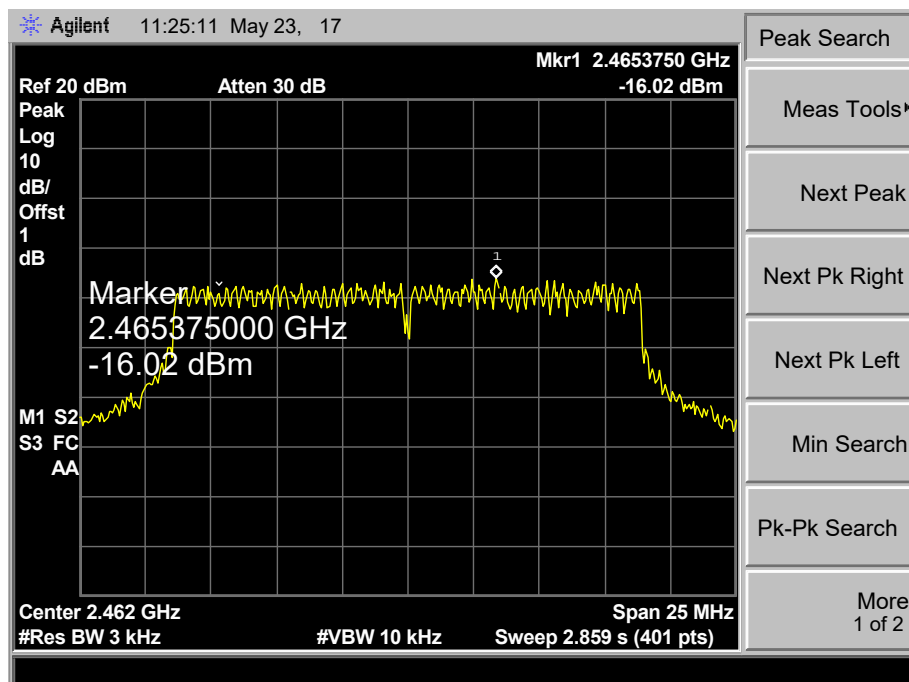
802.11N(HT20) Mode

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
<input checked="" type="checkbox"/> Permanent attached antenna
<input type="checkbox"/> Unique connector antenna
<input type="checkbox"/> Professional installation antenna

-----END OF REPORT-----