

FCC Radio Test Report

FCC ID: 2AKURJF-CAM

Original Grant

Report No. : TB-FCC151197
Applicant : Hangzhou Jufeng Technology Co., Ltd.
Equipment Under Test (EUT)
EUT Name : WIFI NVR KIT
Model No. : JF-IPC-ED2110-IR2-WS
Series No. : Please see the page of 4
Brand Name : JF
Receipt Date : 2016-12-15
Test Date : 2016-12-16 to 2017-01-03
Issue Date : 2017-01-04
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 :

WANG SU

**Approved &
Authorized**

:

Long



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 : Hangzhou Jufeng Technology Co., Ltd.
Address : Building 9, Yinhu Innovation Center, No.9 FuXian Road, YinHu Street, Hangzhou, Zhejiang, China
Manufacturer : Hangzhou Jufeng Technology Co., Ltd.
Address : Building 9, Yinhu Innovation Center, No.9 FuXian Road, YinHu Street, Hangzhou, Zhejiang, China

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	WIFI NVR KIT
Models No.	:	JF-IPC-ED2110-IR2-WS , JF-IPC-EM2wxx-IR8-WS, JF-IPC-EM4wxx-IR8-WS, JF-IPC-EM2wxx-IR8-WA, JF-IPC-EM4wxx-IR8-WA, JF-IPC-EM2wxx-IR8-WP, JF-IPC-EM4wxx-IR8-WP, JF-IPC-ED2wxx-IR2-WS, JF-IPC-ED4wxx-IR2-WS, JF-IPC-ED2wxx-IR2-WA, JF-IPC-ED4wxx-IR2-WA, JF-IPC-ED2wxx-IR2-WP, JF-IPC-ED4wxx-IR2-WP, JF-IPC-BM2wxx-IR2-WS, JF-IPC-BM4wxx-IR2-WS, JF-IPC-BM2wxx-IR2-WA, JF-IPC-BM4wxx-IR2-WA, JF-IPC-BM2wxx-IR2-WP, JF-IPC-BM4wxx-IR2-WP, JF-IPC-HE2wxx-IR2-WS, JF-IPC-HE4wxx-IR2-WS, JF-IPC-HE2wxx-IR2-WA , JF-IPC-HE4wxx-IR2-WA, JF-IPC-HE2wxx-IR2-WP, JF-IPC-HE4wxx-IR2-WP, JF-IPC-EQ2wxx-IR2-WS, JF-IPC-EQ4wxx-IR2-WS, JF-IPC-EQ2wxx-IR2-WA, JF-IPC-EQ4wxx-IR2-WA, JF-IPC-EQ2wxx-IR2-WP, JF-IPC-EQ4wxx-IR2-WP, JF-IPC-BS2wxx-IR2-WS, JF-IPC-BS4wxx-IR2-WS, JF-IPC-BS2wxx-IR2-WA, JF-IPC-BS4wxx-IR2-WA, JF-IPC-BS2wxx-IR2-WP, JF-IPC-BS4wxx-IR2-WP, JF-IPC-HS2wxx-IR2-WS, JF-IPC-HS4wxx-IR2-WS, JF-IPC-HS2wxx-IR2-WA, JF-IPC-HS4wxx-IR2-WA, JF-IPC-HS2wxx-IR2-WP, JF-IPC-HS4wxx-IR2-WP, JF-IPC-FC2wxx-IR2-WS, JF-IPC-FC4wxx-IR2-WS, JF-IPC-FC2wxx-IR2-WA, JF-IPC-FC4wxx-IR2-WA, JF-IPC-FC2wxx-IR2-WP, JF-IPC-FC4wxx-IR2-WP The "w" can be 1、2、3、4 denote different market positioning. The "xx" can be 10、13、20、30 denote different software configuration.
Model Difference	:	All these models are identical in the same PCB layout and electrical circuit, the only difference is market positioning and software configuration.
Product Description	:	Operation Frequency: 802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz
		Number of Channel: 802.11b/g/n(HT20): 11 channels see note(3) 802.11n(HT40): 9 channels see note(3)
		RF Output Power: 802.11b: 18.77 dBm 802.11g: 16.94 dBm 802.11n (HT20): 15.43 dBm 802.11n (HT40): 15.08 dBm

	Antenna Gain:	5 dBi Dipole 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 power by AC/DC Adapter.
Power Rating	:	Input: AC 100~240V,50/60Hz, 0.4A. Output: DC 12.0V, 1A.
Connecting I/O Port(S)	:	Please refer to the User's Manual

Note:

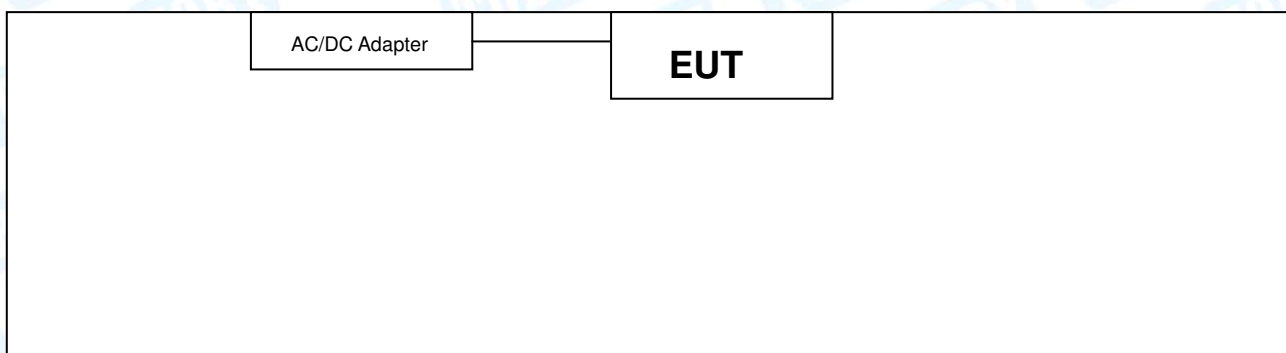
- (1) This Test Report is FCC Part 15.247 for 802.11b/g/n, the test procedure follows the FCC KDB 558074 D01 DTS Meas Guidance v03r05.
- (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- (3) Channel List:

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		
Note:CH 01~CH 11 for 802.11b/g/n(HT20) CH 03~CH 09 for 802.11n(HT40)					

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

1.3 Block Diagram Showing the Configuration of System Tested

AC Charging with 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	AC Charging 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
Mode 5	TX Mode N(HT40) Mode Channel 03/06/09

Note:

- (1) For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate.
According to ANSI C63.10 standards, the measurements are performed at the highest, Middle, lowest available channels, and the worst case data rate as follows:
802.11b Mode: CCK (1 Mbps)
802.11g Mode: OFDM (6 Mbps)
802.11n (HT20) Mode: MCS 0 (6.5 Mbps)
802.11n (HT40) Mode: MCS 0 (13 Mbps)
- (2) During the testing procedure, the continuously transmitting with the maximum power mode was programmed by the customer.
- (3) The EUT is considered a fixed unit; in normal use it was positioned on X-plane. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.

1.6 Description of Test Software Setting

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

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

1.7 Measurement Uncertainty

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

Test Item	Parameters	Expanded Uncertainty (U_{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. 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
Loop Antenna	Laplace instrument	RF300	0701	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
Spectrum Analyzer	Rohde & Schwarz	ESCI	100321	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

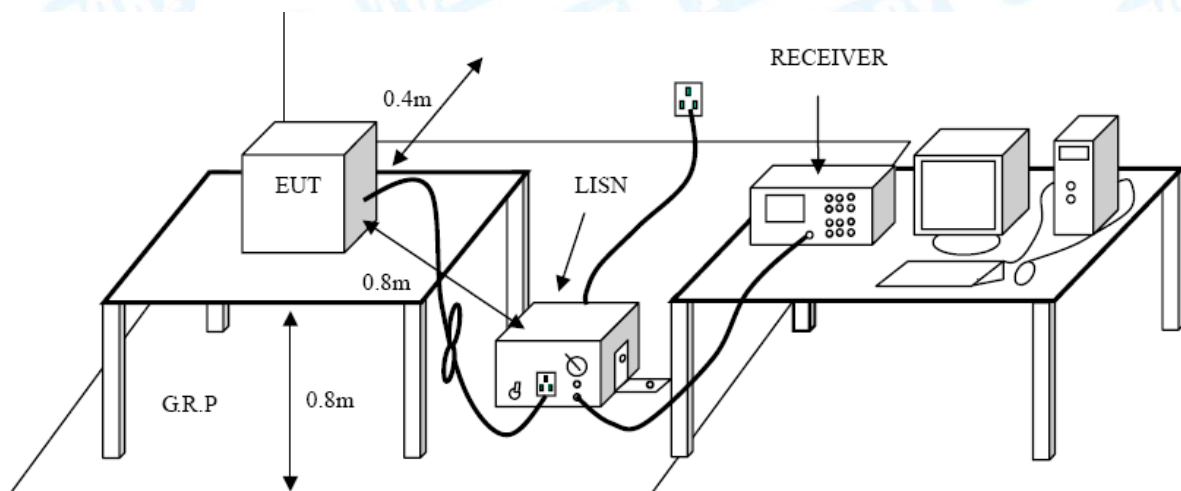
Notes:

(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.

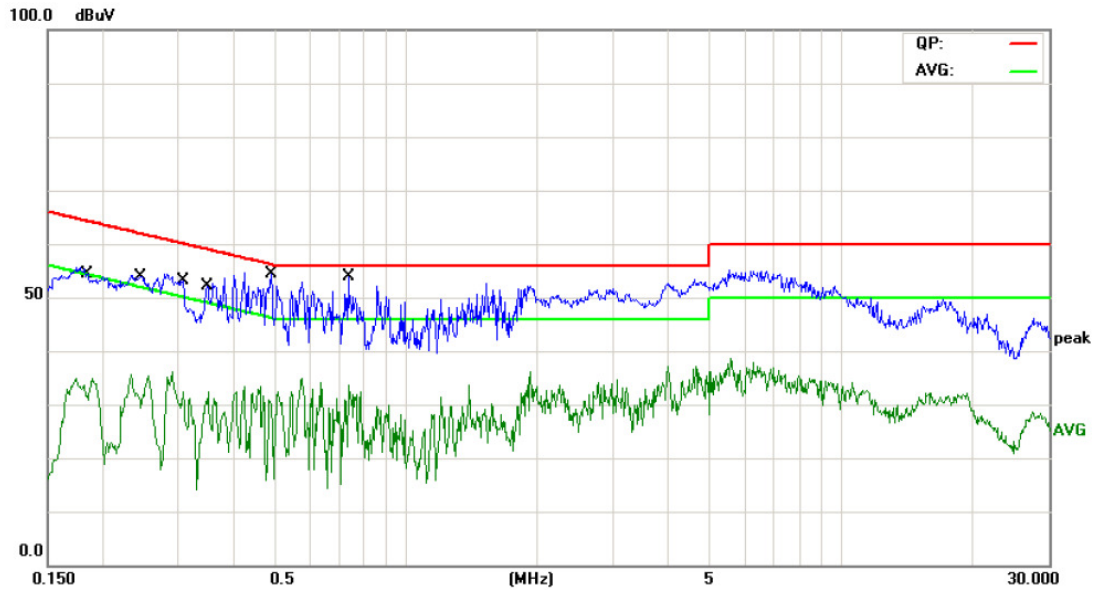
4.4 EUT Operating Mode

Please refer to the description of test mode.

4.5 Test Data

Please see the next page.

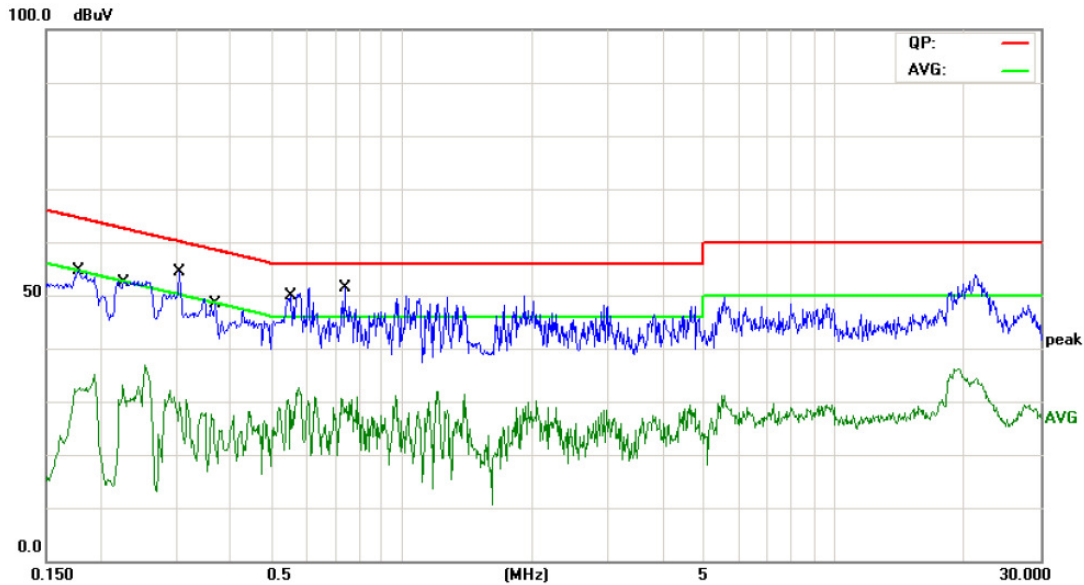
EUT:	WIFI NVR KIT	Model Name :	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Terminal:	Line		
Test Mode:	AC Charging with TX B Mode		
Remark:	Only worse case is reported		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1860	49.33	9.99	59.32	64.21	-4.89	QP
2		0.1860	40.77	9.99	50.76	54.21	-3.45	AVG
3		0.2460	48.74	10.02	58.76	61.89	-3.13	QP
4		0.2460	36.22	10.02	46.24	51.89	-5.65	AVG
5	*	0.3060	47.26	10.02	57.28	60.08	-2.80	QP
6		0.3060	32.65	10.02	42.67	50.08	-7.41	AVG
7		0.3500	41.82	10.02	51.84	58.96	-7.12	QP
8		0.3500	32.74	10.02	42.76	48.96	-6.20	AVG
9		0.4900	40.24	10.02	50.26	56.17	-5.91	QP
10		0.4900	30.24	10.02	40.26	46.17	-5.91	AVG
11		0.7380	39.61	10.11	49.72	56.00	-6.28	QP
12		0.7380	28.49	10.11	38.60	46.00	-7.40	AVG

Emission Level= Read Level+ Correct Factor

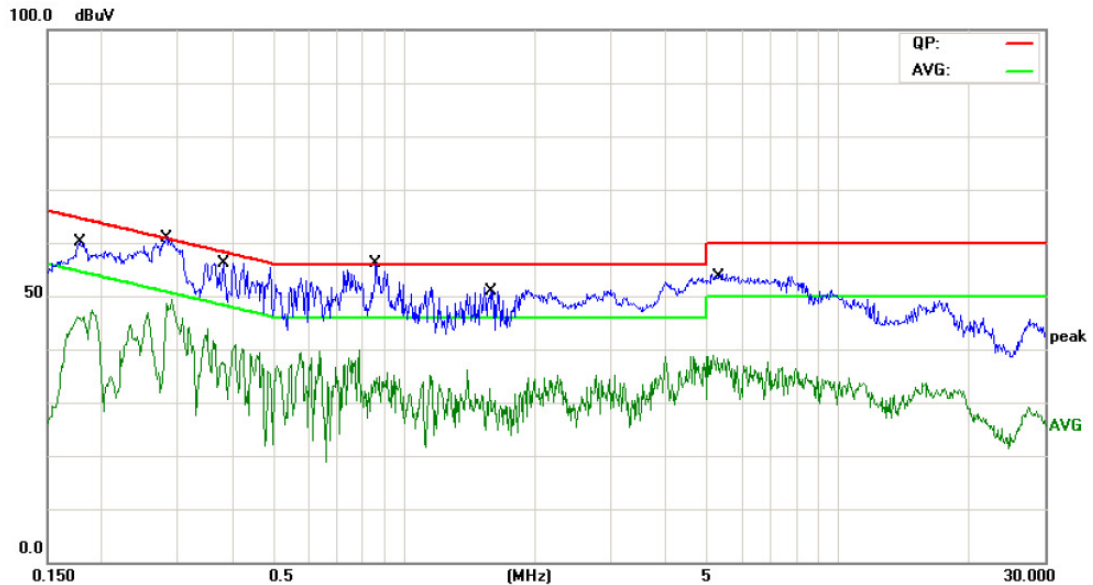
EUT:	WIFI NVR KIT	Model Name :	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Terminal:	Neutral		
Test Mode:	AC Charging with TX B Mode		
Remark:	Only worse case is reported		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1780	47.18	9.98	57.16	64.57	-7.41	QP
2		0.1780	39.78	9.98	49.76	54.57	-4.81	AVG
3		0.2300	44.18	10.02	54.20	62.45	-8.25	QP
4	*	0.2300	39.24	10.02	49.26	52.45	-3.19	AVG
5		0.3060	46.77	10.02	56.79	60.08	-3.29	QP
6		0.3060	36.30	10.02	46.32	50.08	-3.76	AVG
7		0.3700	40.72	10.02	50.74	58.50	-7.76	QP
8		0.3700	30.61	10.02	40.63	48.50	-7.87	AVG
9		0.5500	36.24	10.04	46.28	56.00	-9.72	QP
10		0.5500	30.33	10.04	40.37	46.00	-5.63	AVG
11		0.7380	38.15	10.11	48.26	56.00	-7.74	QP
12		0.7380	29.53	10.11	39.64	46.00	-6.36	AVG

Emission Level= Read Level+ Correct Factor

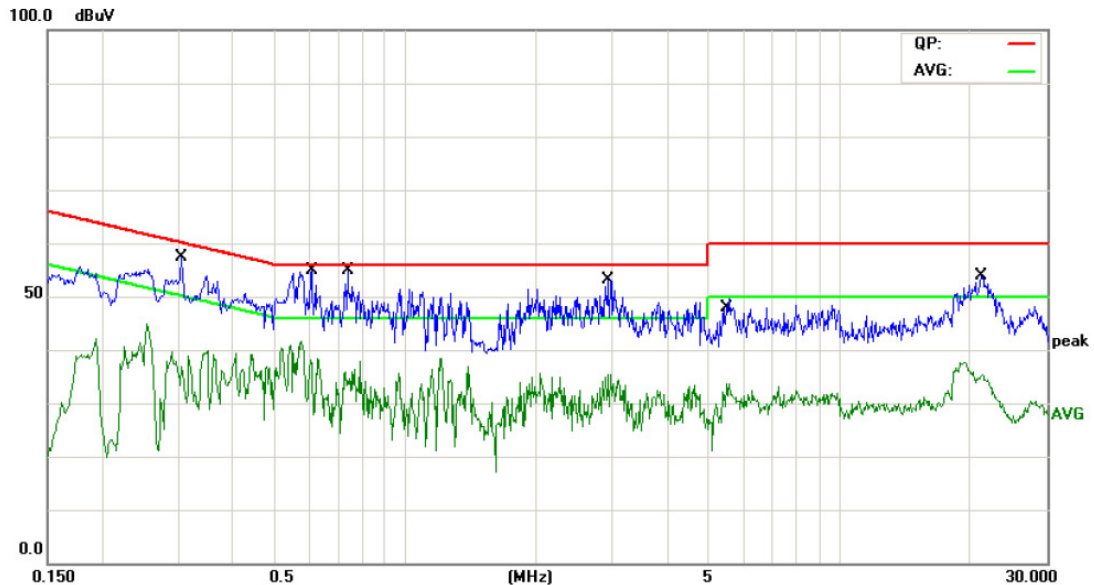
EUT:	WIFI NVR KIT	Model Name :	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 240V/60Hz		
Terminal:	Line		
Test Mode:	AC Charging with TX B Mode		
Remark:	Only worse case is reported		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1758	50.22	9.97	60.19	64.68	-4.49	QP
2		0.1758	36.16	9.97	46.13	54.68	-8.55	AVG
3		0.2816	44.35	10.02	54.37	60.77	-6.40	QP
4		0.2816	38.64	10.02	48.66	50.77	-2.11	AVG
5	*	0.3790	46.20	10.02	56.22	58.30	-2.08	QP
6		0.3790	27.50	10.02	37.52	48.30	-10.78	AVG
7		0.8578	41.33	10.09	51.42	56.00	-4.58	QP
8		0.8578	24.81	10.09	34.90	46.00	-11.10	AVG
9		1.5740	41.58	10.06	51.64	56.00	-4.36	QP
10		1.5740	22.53	10.06	32.59	46.00	-13.41	AVG
11		5.2738	44.14	9.97	54.11	60.00	-5.89	QP
12		5.2738	31.36	9.97	41.33	50.00	-8.67	AVG

Emission Level= Read Level+ Correct Factor

EUT:	WIFI NVR KIT	Model Name :	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 240V/60Hz		
Terminal:	Neutral		
Test Mode:	AC Charging 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	0.3059	47.48	10.02	57.50	60.08	-2.58	QP
2	0.3059	36.35	10.02	46.37	50.08	-3.71	AVG
3	0.6097	44.90	10.07	54.97	56.00	-1.03	QP
4	0.6097	32.60	10.07	42.67	46.00	-3.33	AVG
5 *	0.7378	44.87	10.11	54.98	56.00	-1.02	QP
6	0.7378	29.56	10.11	39.67	46.00	-6.33	AVG
7	2.9420	43.06	10.03	53.09	56.00	-2.91	QP
8	2.9420	30.34	10.03	40.37	46.00	-5.63	AVG
9	5.4897	39.67	9.98	49.65	60.00	-10.35	QP
10	5.4897	30.69	9.98	40.67	50.00	-9.33	AVG
11	21.2576	43.69	10.16	53.85	60.00	-6.15	QP
12	21.2576	32.51	10.16	42.67	50.00	-7.33	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

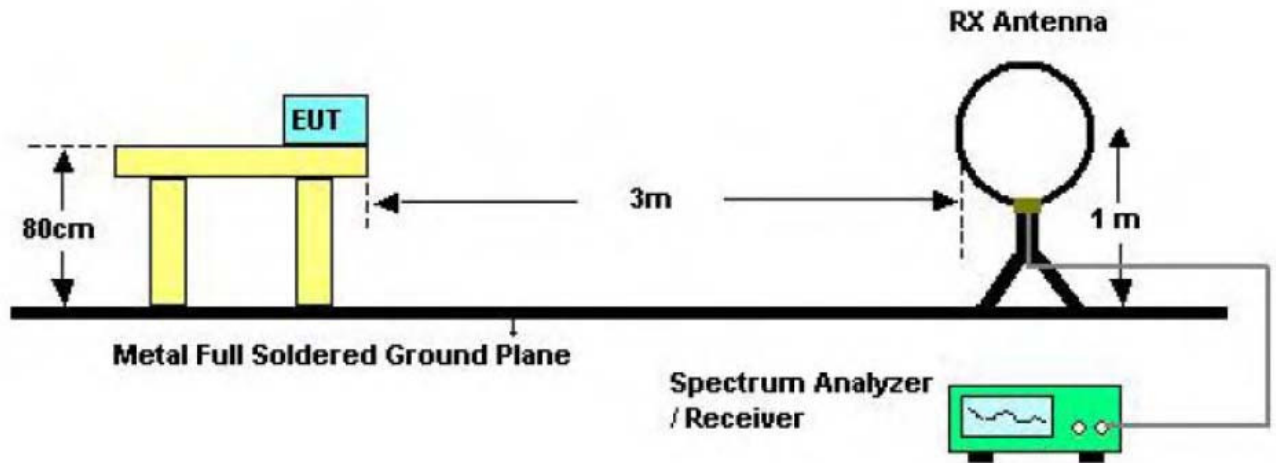
Radiated Emission Limit (Above 1000MHz)

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

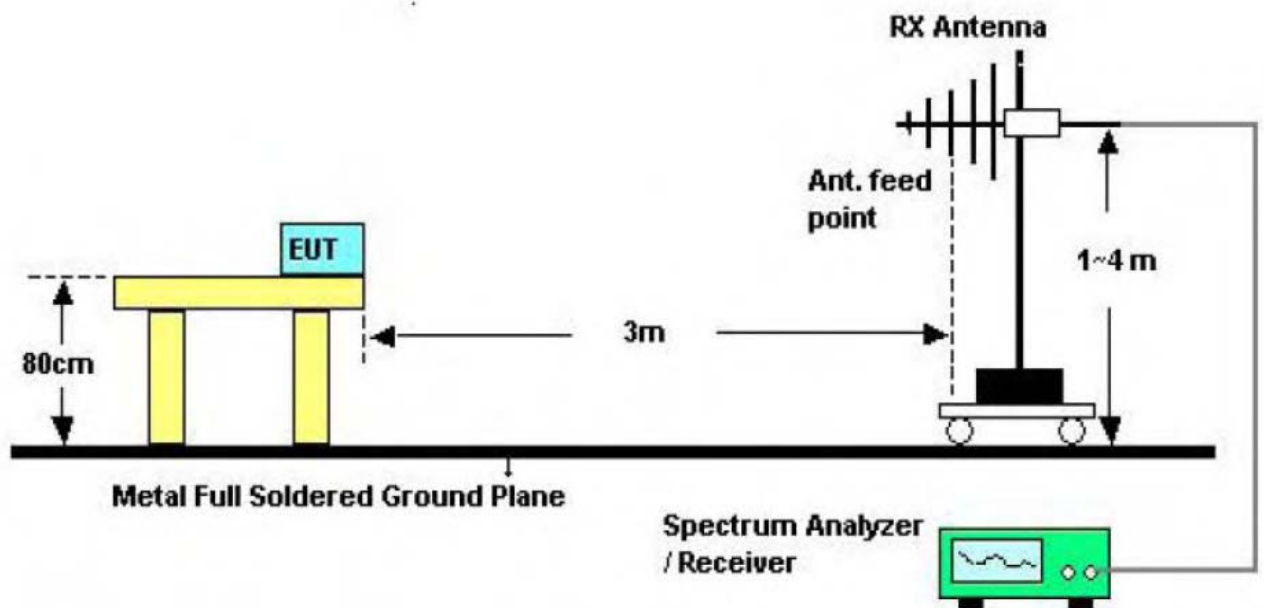
Note:

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

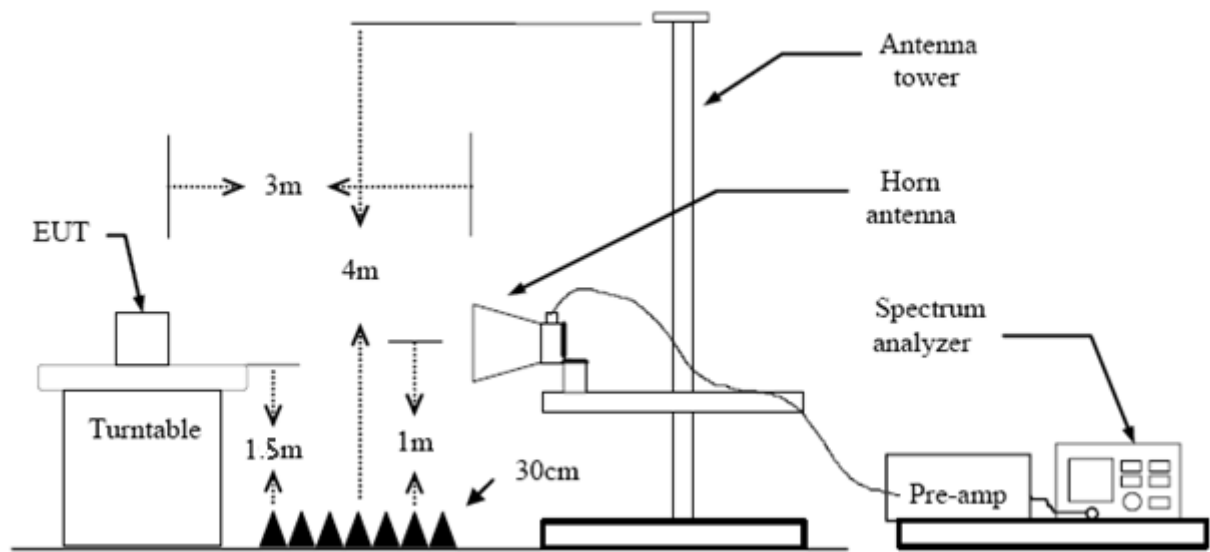
5.2 Test Setup



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.

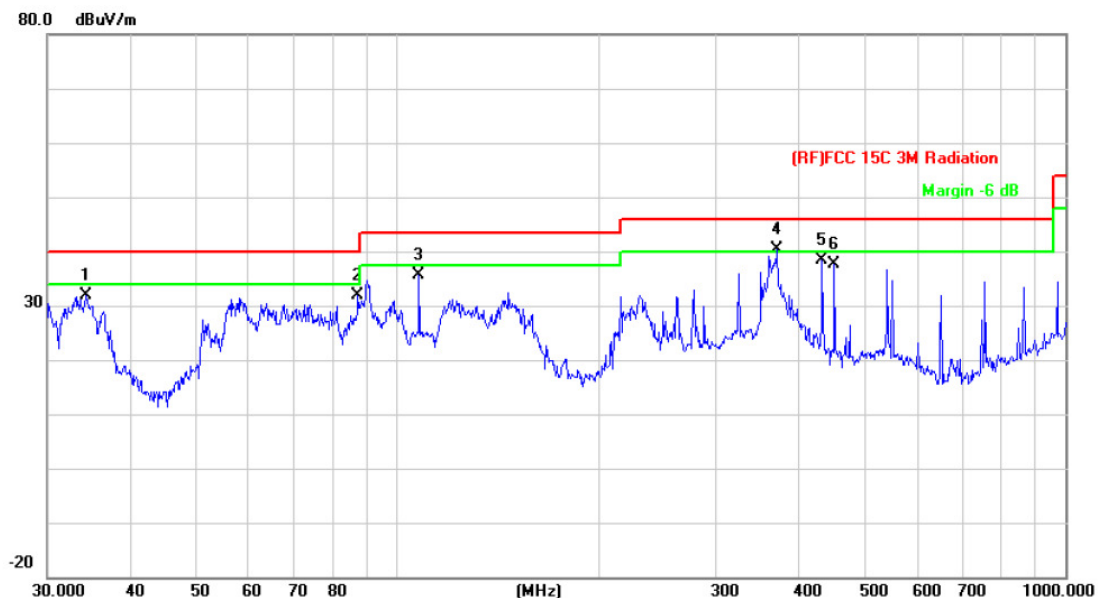
9KHz~30MHz

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:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
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		

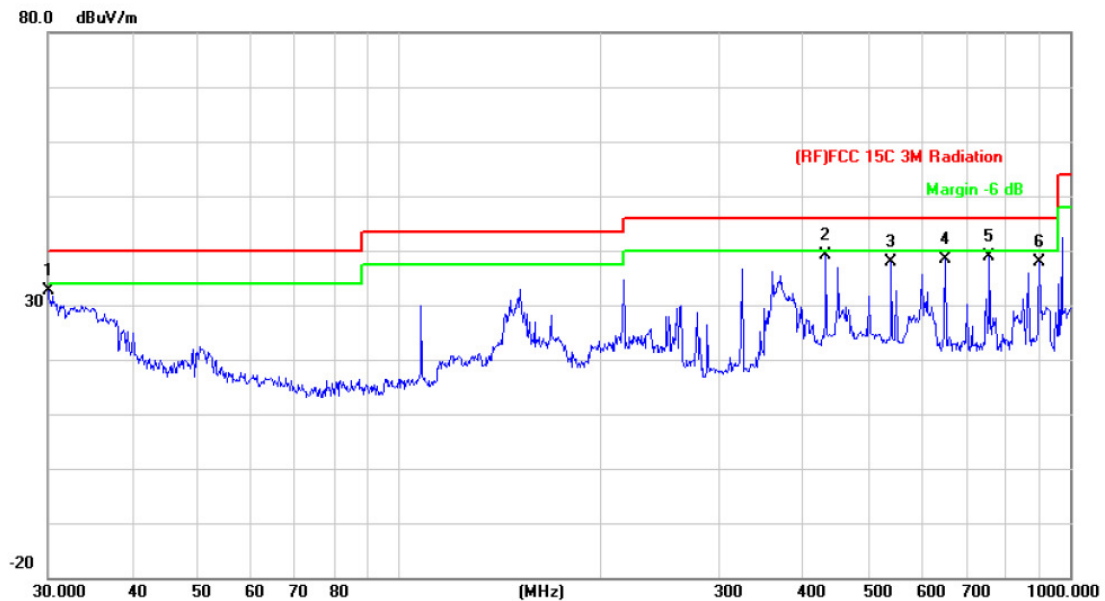


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		34.2760	48.61	-16.78	31.83	40.00	-8.17	peak
2		87.4175	54.74	-22.89	31.85	40.00	-8.15	peak
3		107.8876	57.40	-21.86	35.54	43.50	-7.96	peak
4	*	370.7022	54.52	-14.02	40.50	46.00	-5.50	peak
5		432.5457	50.64	-12.30	38.34	46.00	-7.66	peak
6		451.1349	49.54	-11.93	37.61	46.00	-8.39	peak

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

Emission Level= Read Level+ Correct Factor

EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
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		



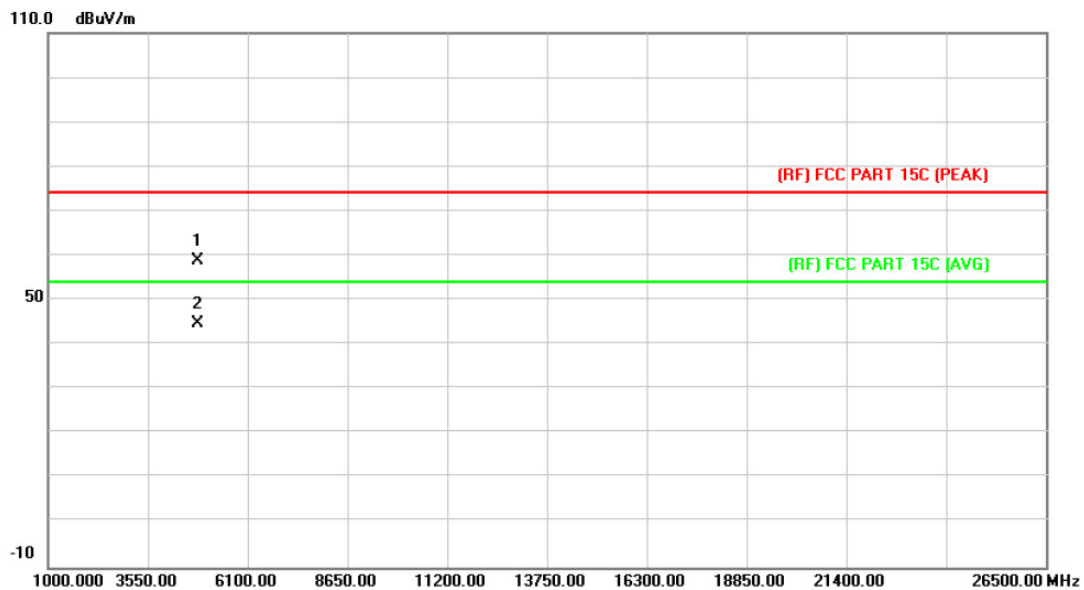
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		30.0000	46.71	-14.15	32.56	40.00	-7.44	peak
2	*	432.5457	51.42	-12.30	39.12	46.00	-6.88	peak
3		541.3721	47.52	-9.53	37.99	46.00	-8.01	peak
4		651.9415	46.16	-7.78	38.38	46.00	-7.62	peak
5		758.0407	44.79	-5.84	38.95	46.00	-7.05	peak
6		900.1471	41.52	-3.60	37.92	46.00	-8.08	peak

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

Emission Level= Read Level+ Correct Factor

Above 1GHz

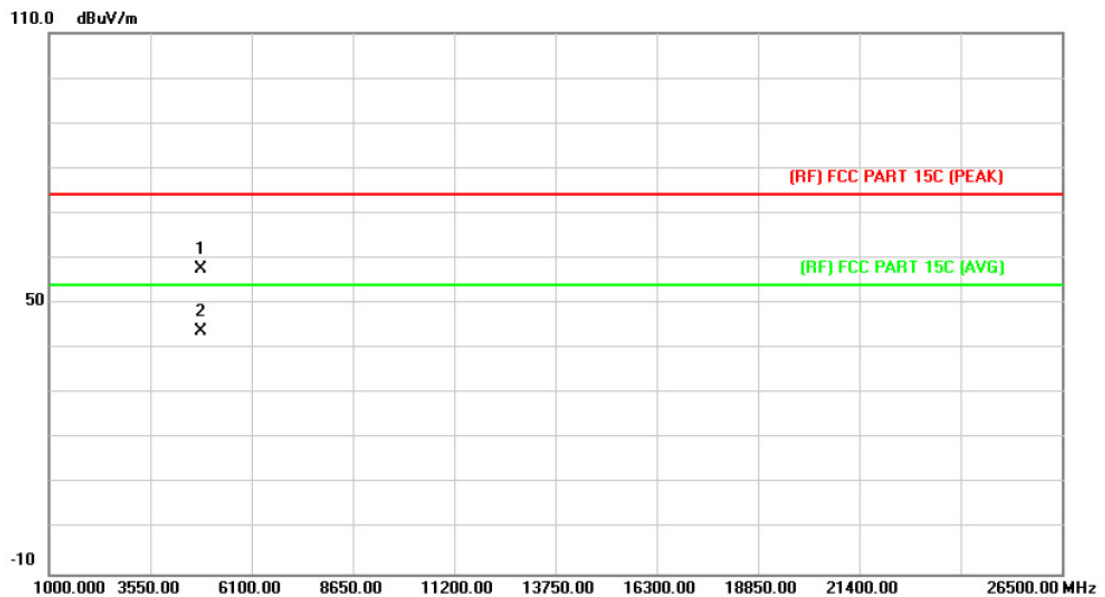
EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4823.355	45.21	13.56	58.77	74.00	-15.23	peak
2	*	4824.054	31.32	13.56	44.88	54.00	-9.12	AVG

Emission Level= Read Level+ Correct Factor

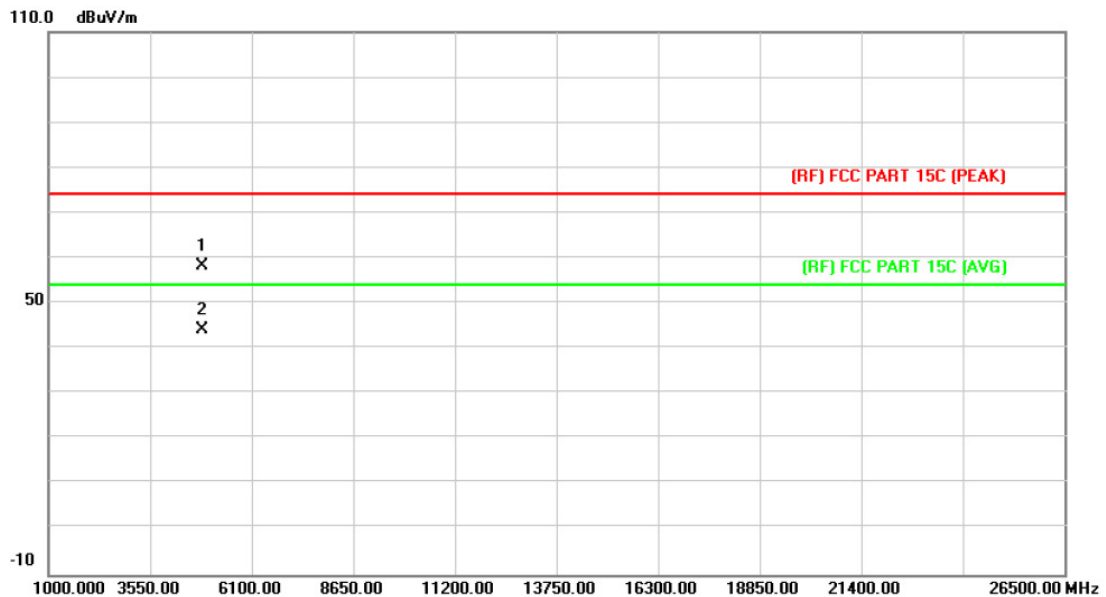
EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.409	44.08	13.56	57.64	74.00	-16.36	peak
2	*	4824.915	30.31	13.56	43.87	54.00	-10.13	AVG

Emission Level= Read Level+ Correct Factor

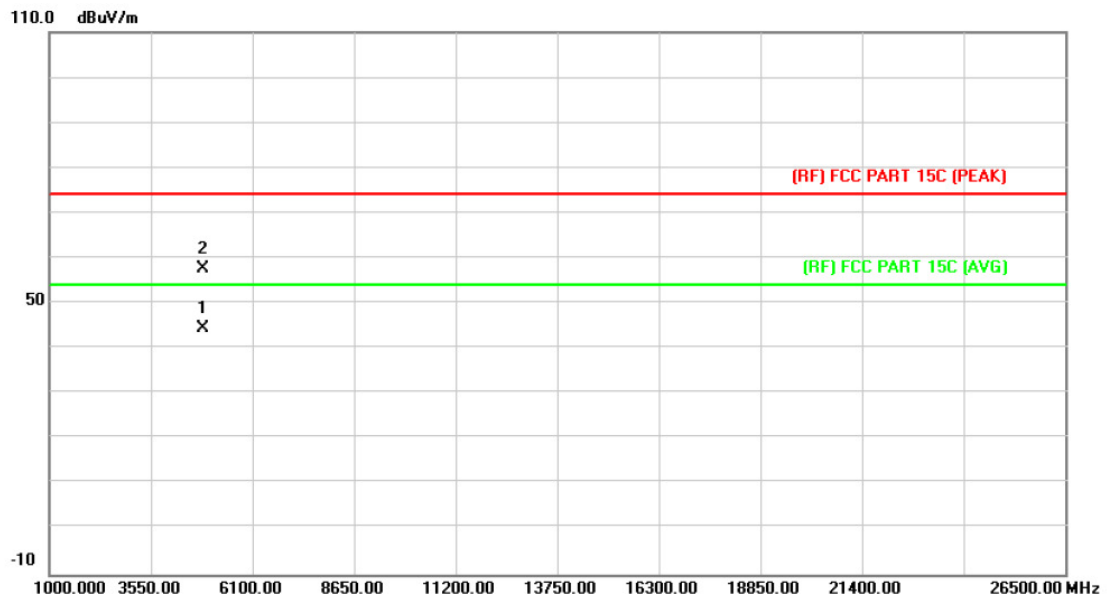
EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.481	44.50	13.86	58.36	74.00	-15.64	peak
2	*	4874.630	30.41	13.86	44.27	54.00	-9.73	AVG

Emission Level= Read Level+ Correct Factor

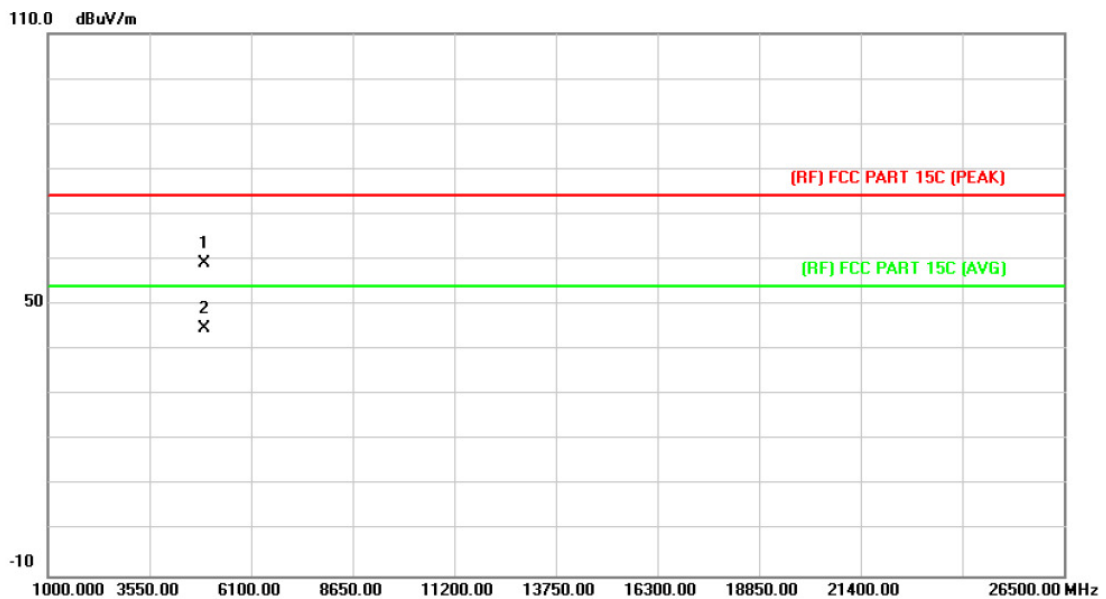
EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4872.890	30.62	13.85	44.47	54.00	-9.53	AVG
2		4873.601	43.76	13.86	57.62	74.00	-16.38	peak

Emission Level= Read Level+ Correct Factor

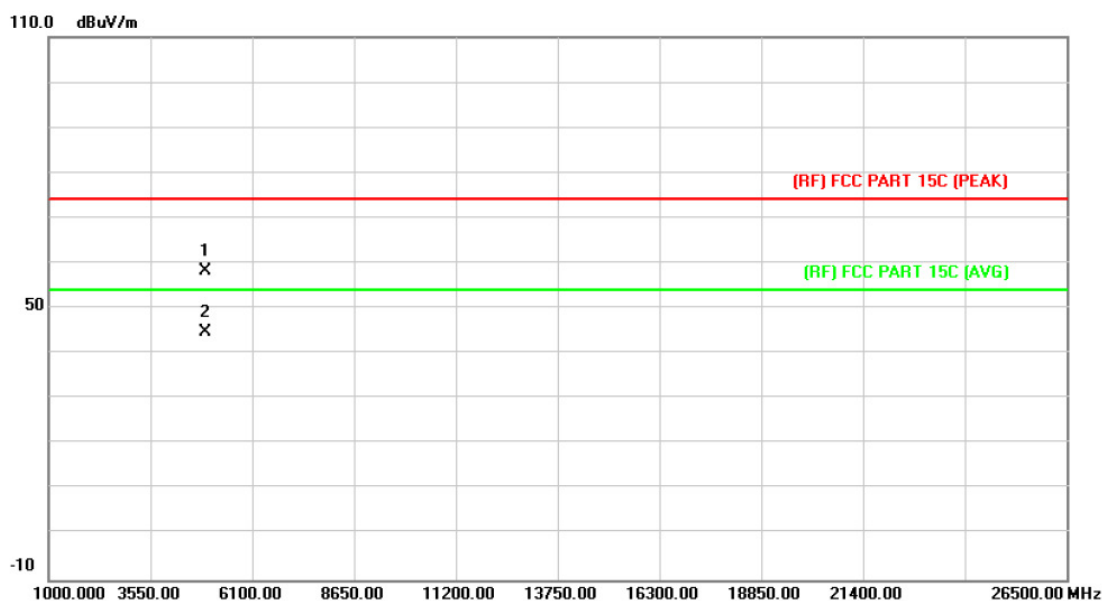
EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4924.102	44.98	14.15	59.13	74.00	-14.87	peak
2	*	4925.329	30.64	14.16	44.80	54.00	-9.20	AVG

Emission Level= Read Level+ Correct Factor

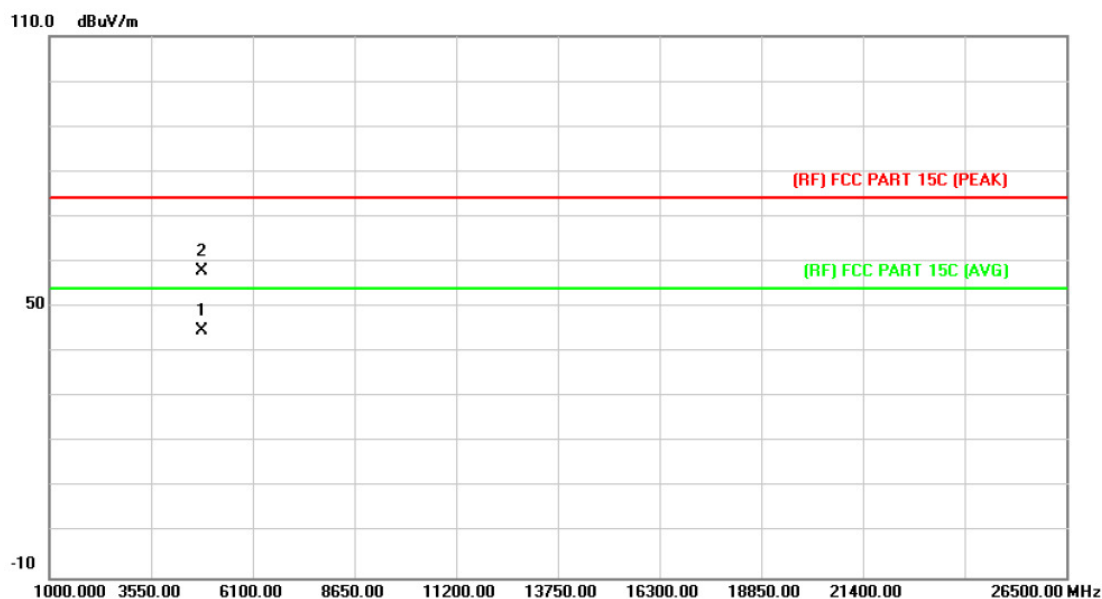
EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4924.075	44.02	14.15	58.17	74.00	-15.83	peak
2	*	4925.014	30.66	14.16	44.82	54.00	-9.18	AVG

Emission Level= Read Level+ Correct Factor

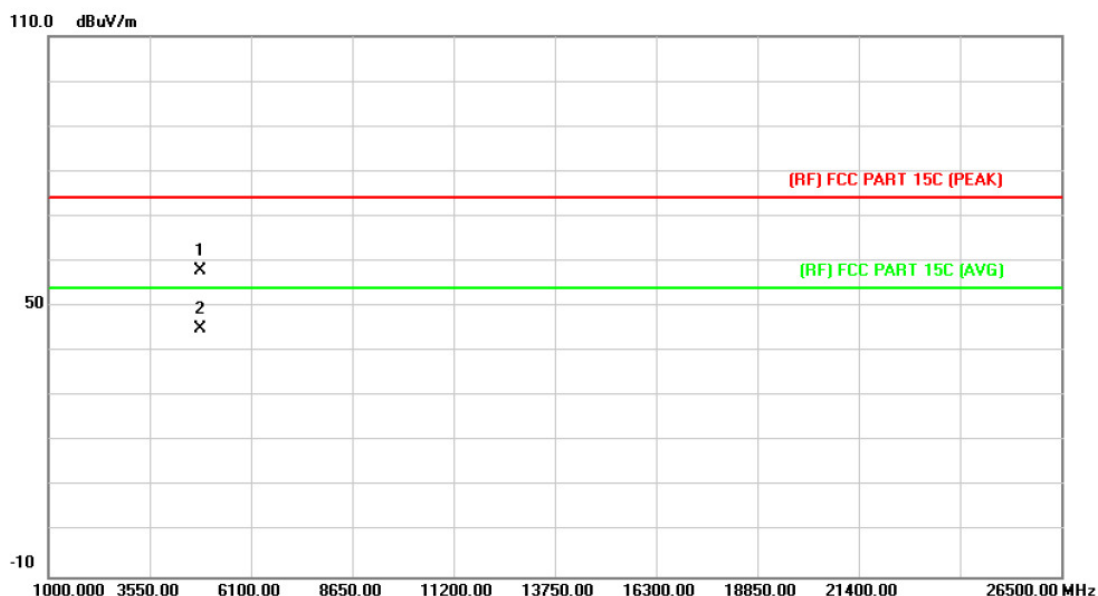
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Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4823.976	31.32	13.56	44.88	54.00	-9.12	AVG
2		4824.798	44.51	13.56	58.07	74.00	-15.93	peak

Emission Level= Read Level+ Correct Factor

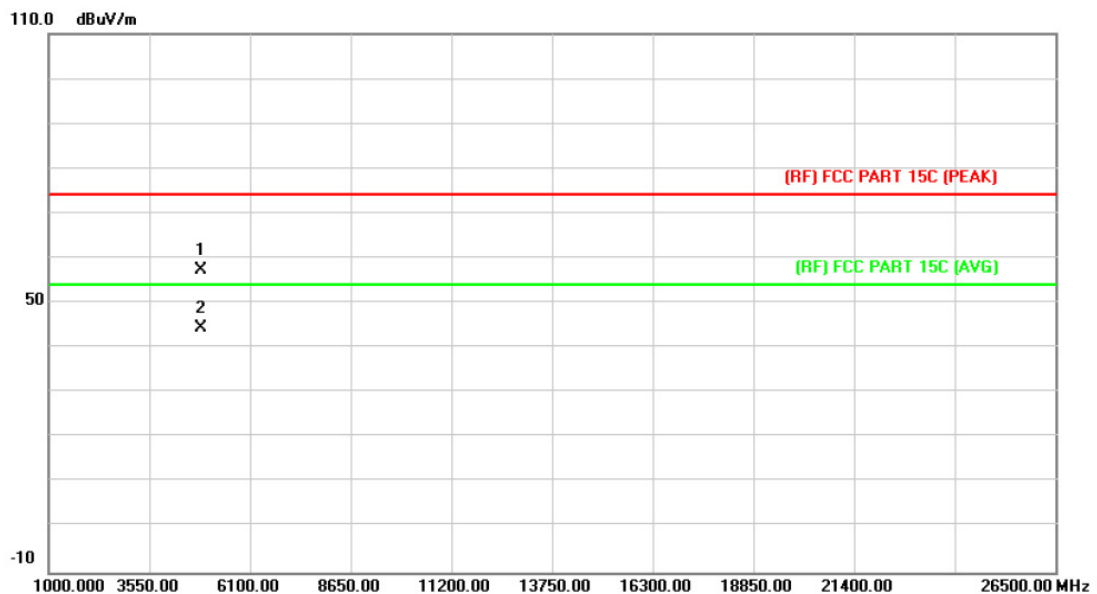
EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.859	44.26	13.56	57.82	74.00	-16.18	peak
2	*	4823.997	31.50	13.56	45.06	54.00	-8.94	AVG

Emission Level= Read Level+ Correct Factor

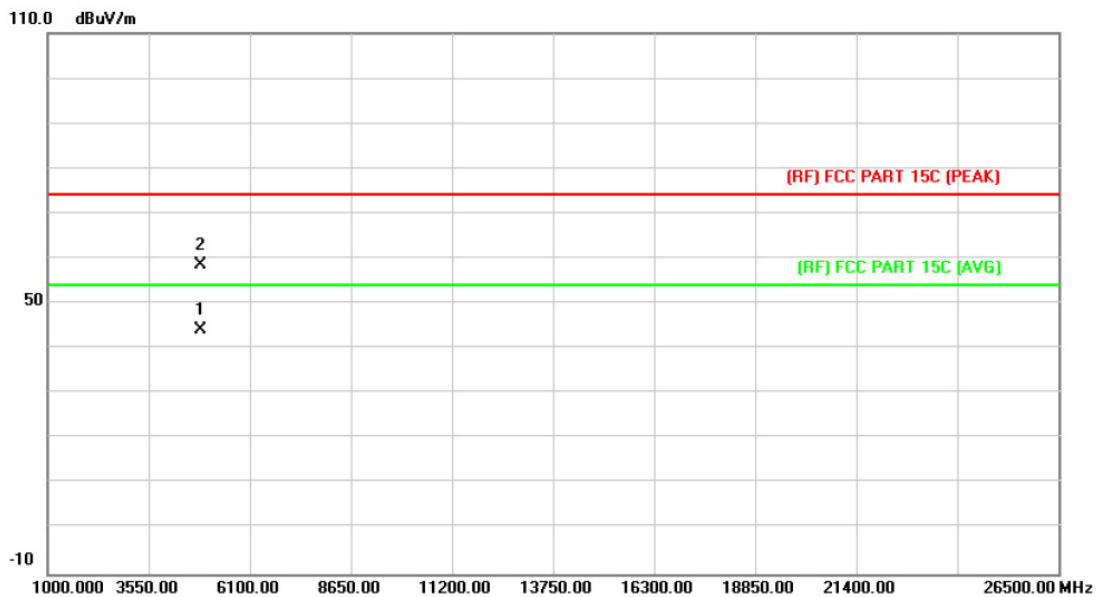
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Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4873.853	43.46	13.86	57.32	74.00	-16.68	peak
2	*	4874.342	30.47	13.86	44.33	54.00	-9.67	AVG

Emission Level= Read Level+ Correct Factor

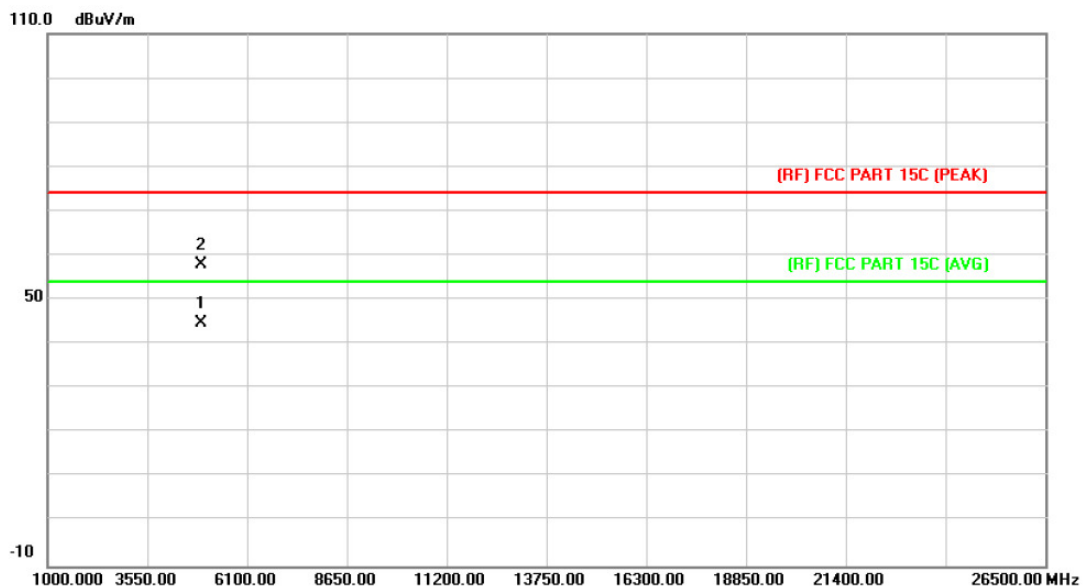
EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4873.706	30.37	13.86	44.23	54.00	-9.77	AVG
2		4875.473	44.75	13.87	58.62	74.00	-15.38	peak

Emission Level= Read Level+ Correct Factor

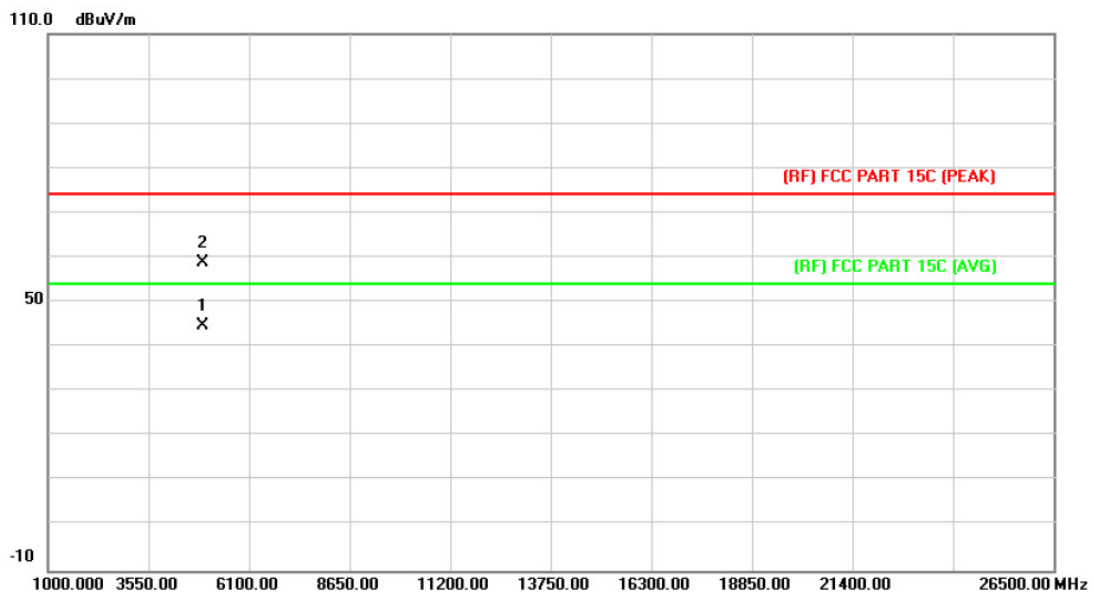
EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4924.813	30.74	14.15	44.89	54.00	-9.11	AVG
2		4925.227	43.81	14.16	57.97	74.00	-16.03	peak

Emission Level= Read Level+ Correct Factor

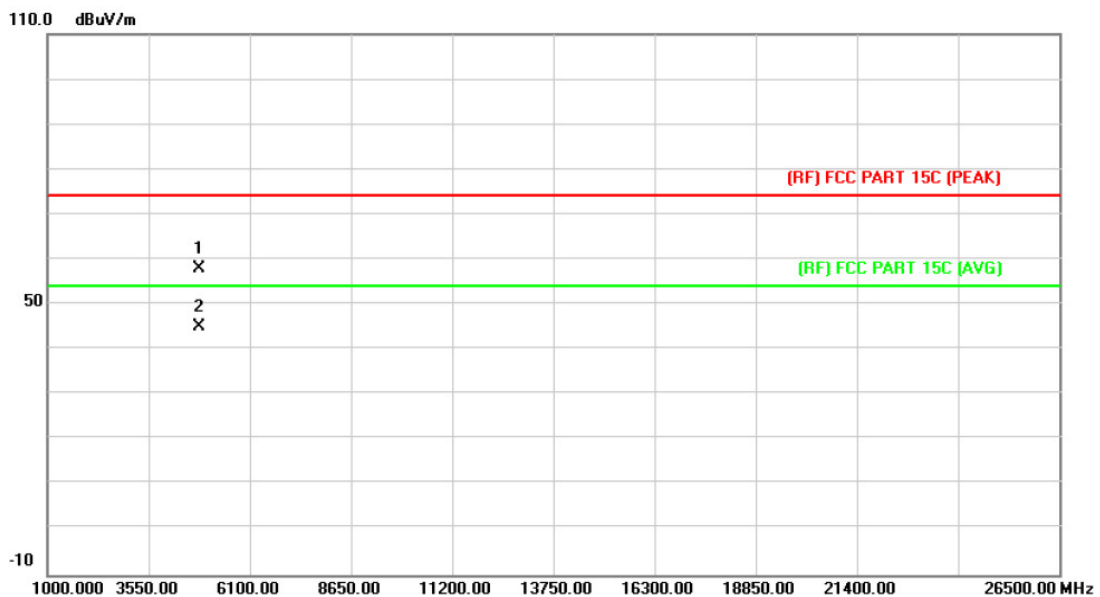
EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4922.587	30.62	14.14	44.76	54.00	-9.24	AVG
2		4923.868	44.85	14.15	59.00	74.00	-15.00	peak

Emission Level= Read Level+ Correct Factor

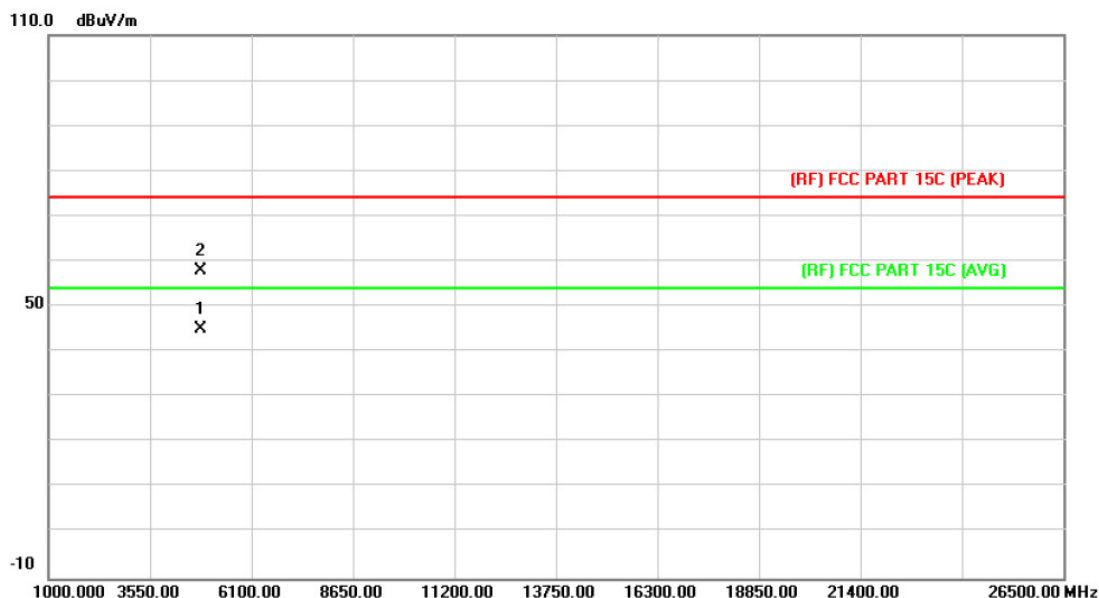
EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4823.523	44.49	13.56	58.05	74.00	-15.95	peak
2	*	4823.901	31.36	13.56	44.92	54.00	-9.08	AVG

Emission Level= Read Level+ Correct Factor

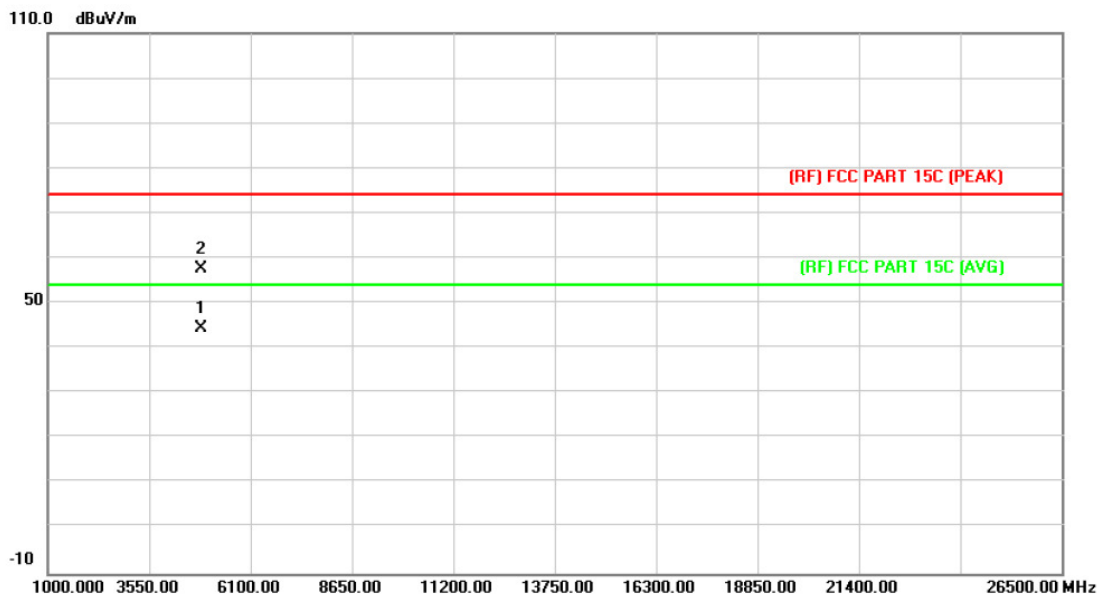
EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4824.075	31.38	13.56	44.94	54.00	-9.06	AVG
2		4824.366	44.37	13.56	57.93	74.00	-16.07	peak

Emission Level= Read Level+ Correct Factor

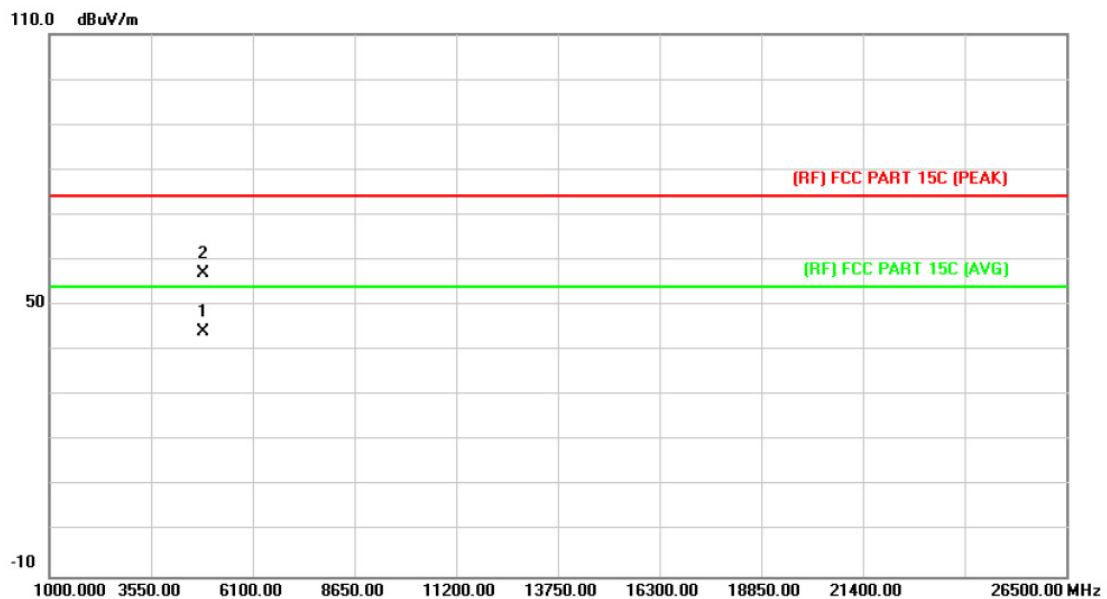
EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4874.534	30.56	13.86	44.42	54.00	-9.58	AVG
2		4875.083	43.86	13.87	57.73	74.00	-16.27	peak

Emission Level= Read Level+ Correct Factor

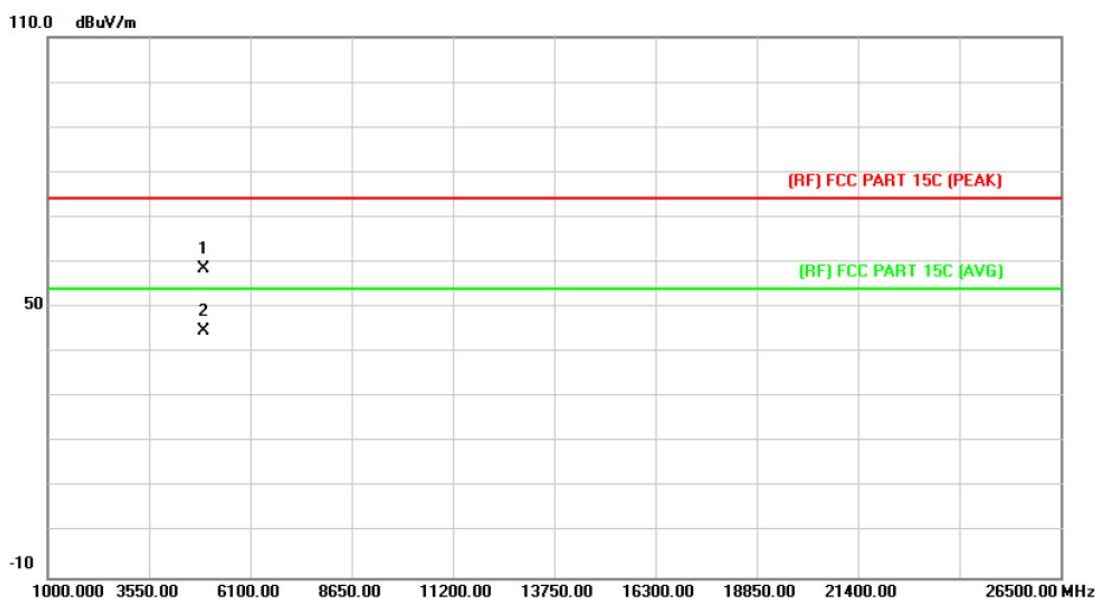
EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4874.471	30.40	13.86	44.26	54.00	-9.74	AVG
2		4875.008	43.05	13.87	56.92	74.00	-17.08	peak

Emission Level= Read Level+ Correct Factor

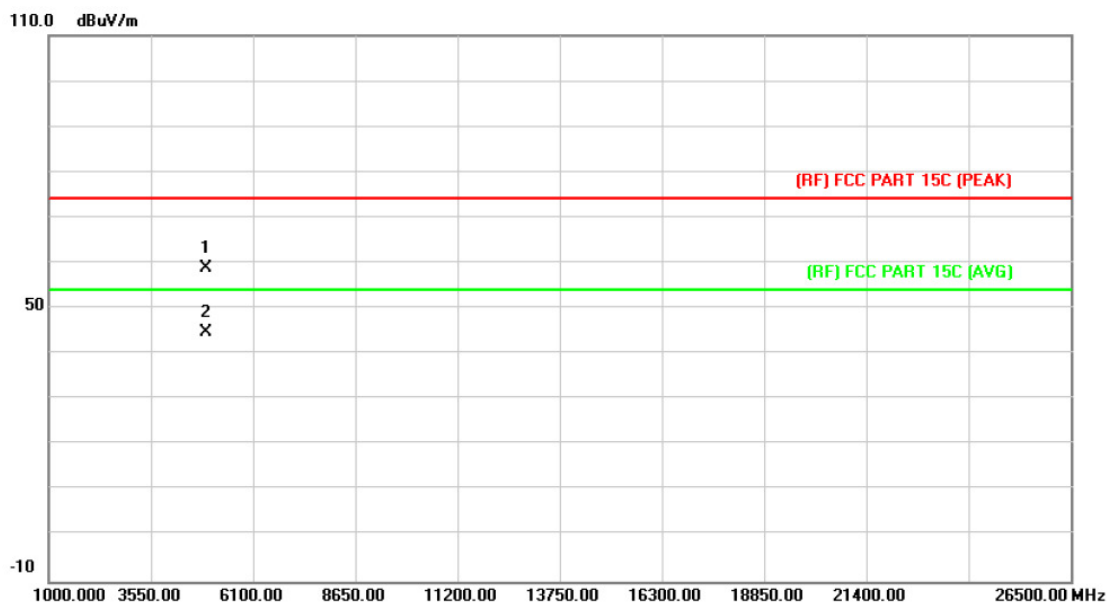
EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4922.935	44.30	14.14	58.44	74.00	-15.56	peak
2	*	4924.582	30.60	14.15	44.75	54.00	-9.25	AVG

Emission Level= Read Level+ Correct Factor

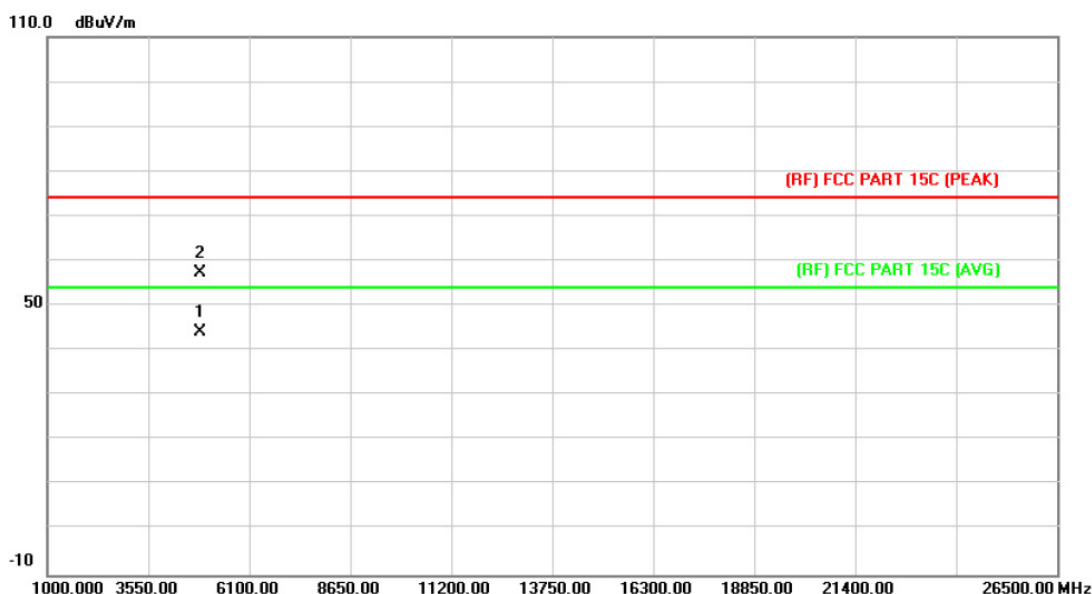
EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4924.327	44.63	14.15	58.78	74.00	-15.22	peak
2	*	4925.005	30.74	14.16	44.90	54.00	-9.10	AVG

Emission Level= Read Level+ Correct Factor

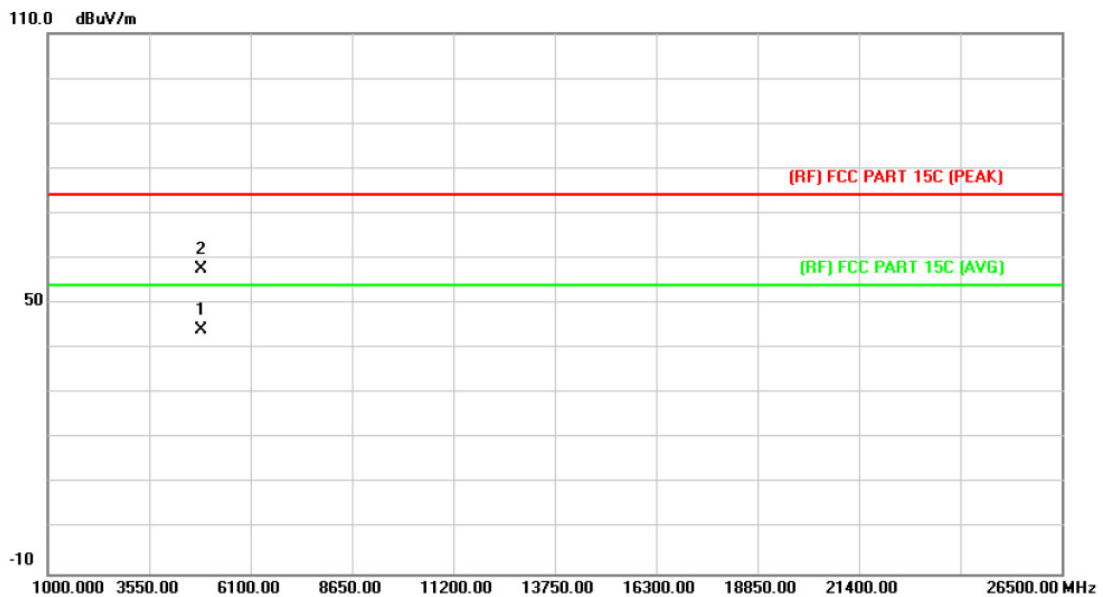
EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2422MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	4844.108	30.34	13.68	44.02	54.00	-9.98	AVG
2		4845.455	43.62	13.69	57.31	74.00	-16.69	peak

Emission Level= Read Level+ Correct Factor

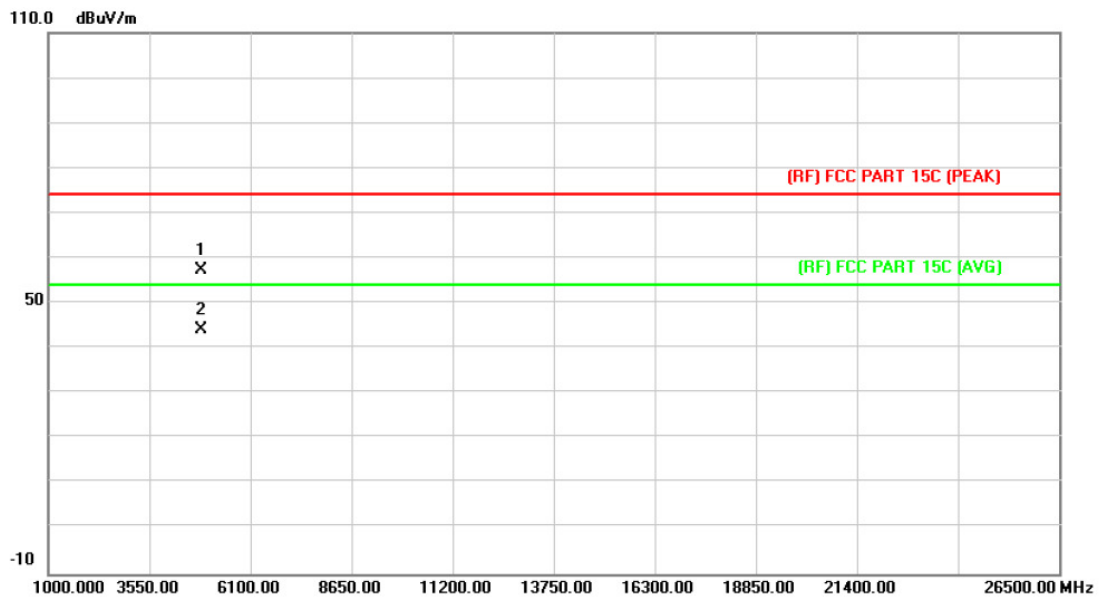
EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2422MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4842.563	30.44	13.67	44.11	54.00	-9.89	AVG
2		4844.150	44.03	13.68	57.71	74.00	-16.29	peak

Emission Level= Read Level+ Correct Factor

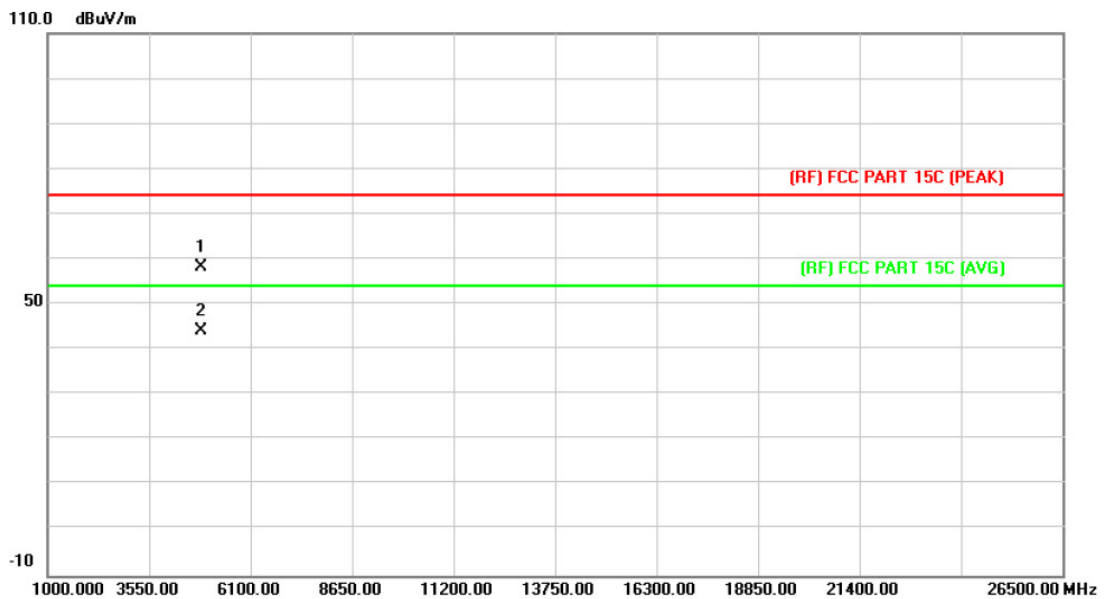
EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.631	43.49	13.86	57.35	74.00	-16.65	peak
2	*	4874.558	30.35	13.86	44.21	54.00	-9.79	AVG

Emission Level= Read Level+ Correct Factor

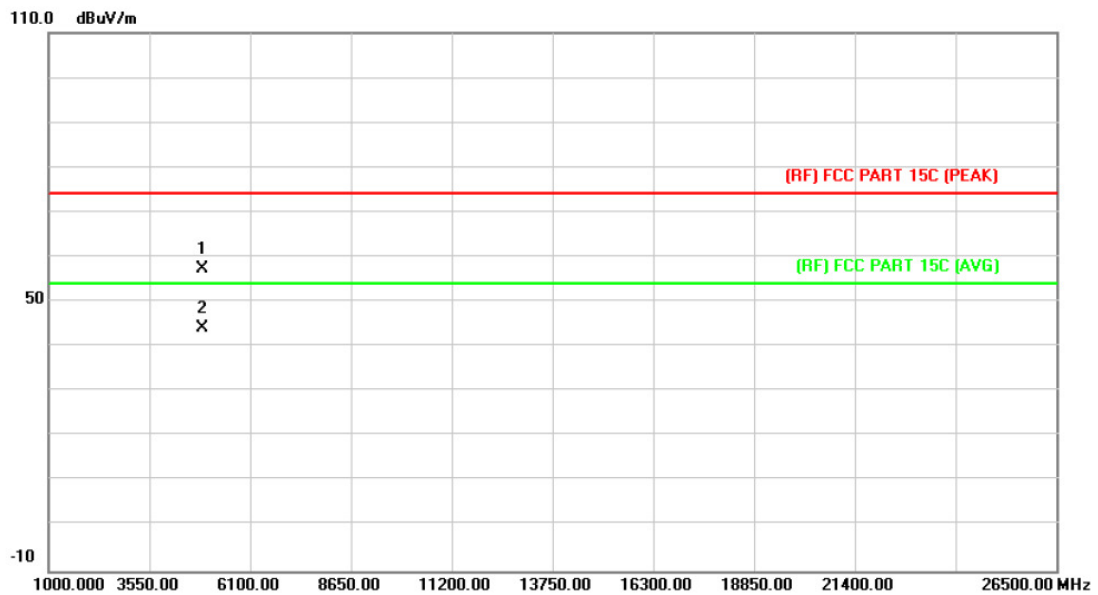
EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4874.618	44.32	13.86	58.18	74.00	-15.82	peak
2	*	4875.419	30.39	13.87	44.26	54.00	-9.74	AVG

Emission Level= Read Level+ Correct Factor

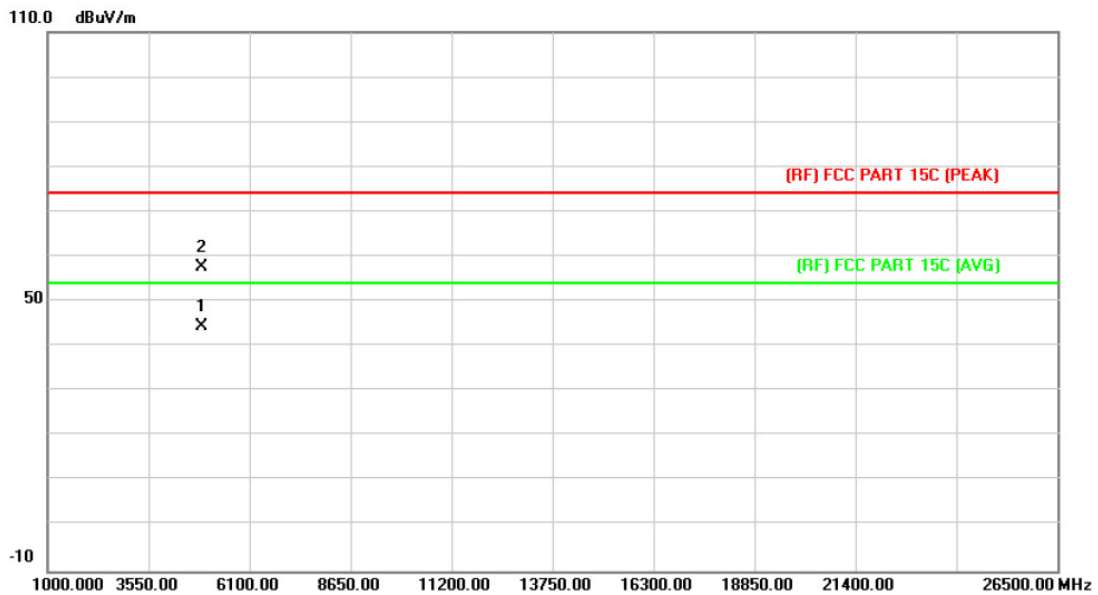
EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2452MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4903.112	43.45	14.03	57.48	74.00	-16.52	peak
2	*	4903.466	30.27	14.03	44.30	54.00	-9.70	AVG

Emission Level= Read Level+ Correct Factor

EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2452MHz		
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	*	4902.986	30.35	14.02	44.37	54.00	-9.63	AVG
2		4904.549	43.64	14.03	57.67	74.00	-16.33	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)

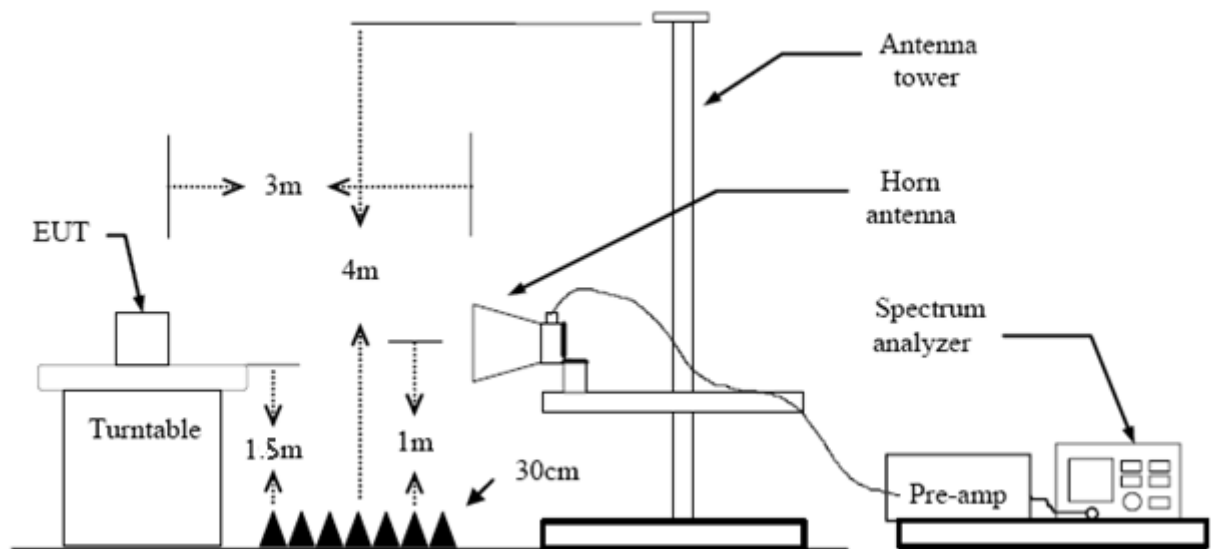
FCC Part 15.209

FCC Part 15.205

6.1.2 Test Limit

Restricted Frequency Band (MHz)	Distance Meters (at 3m)	
	Peak (dBuV/m)	Average (dBuV/m)
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

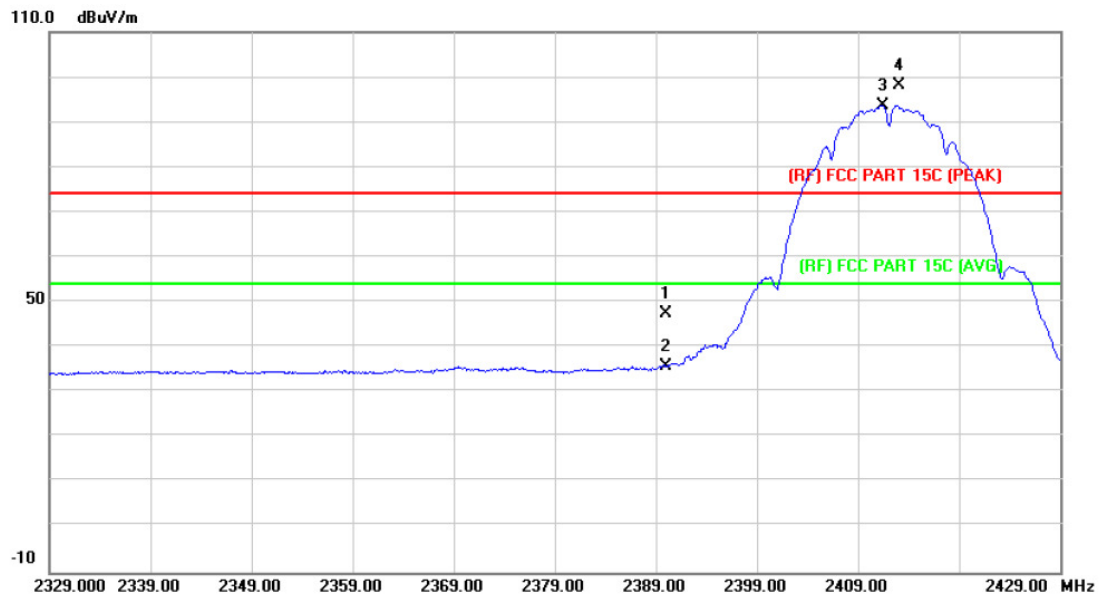
The Equipment Under Test was set to Continual Transmitting in maximum power.

6.5 Test Data

Please see the next page.

(1) Radiation Test

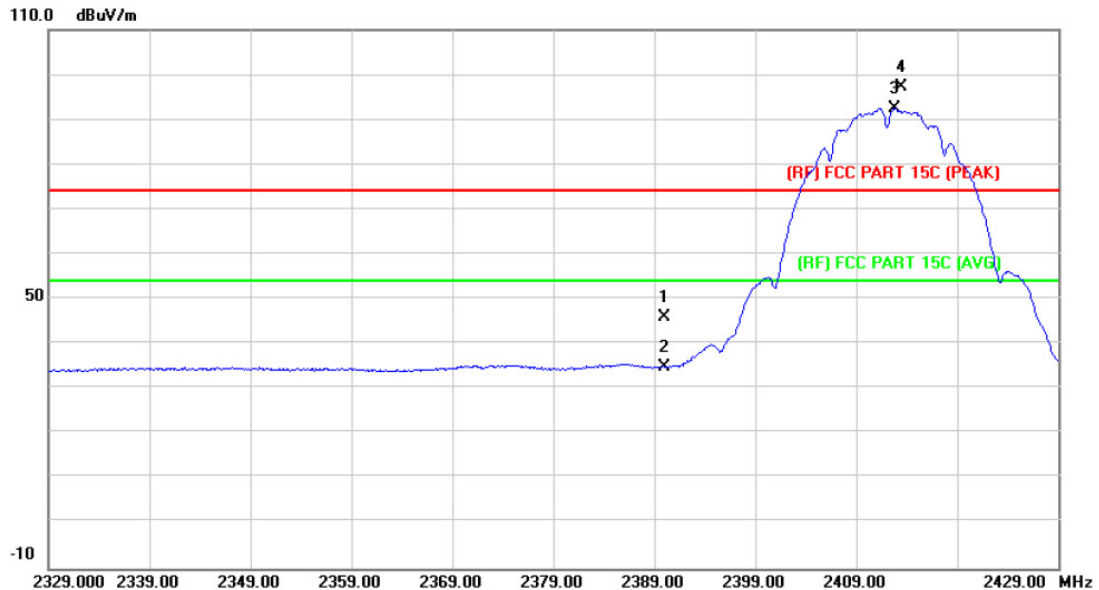
EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	46.83	0.77	47.60	74.00	-26.40	peak
2		2390.000	35.02	0.77	35.79	54.00	-18.21	AVG
3	*	2411.400	92.91	0.86	93.77	Fundamental Frequency		AVG
4	X	2413.100	97.33	0.86	98.19	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

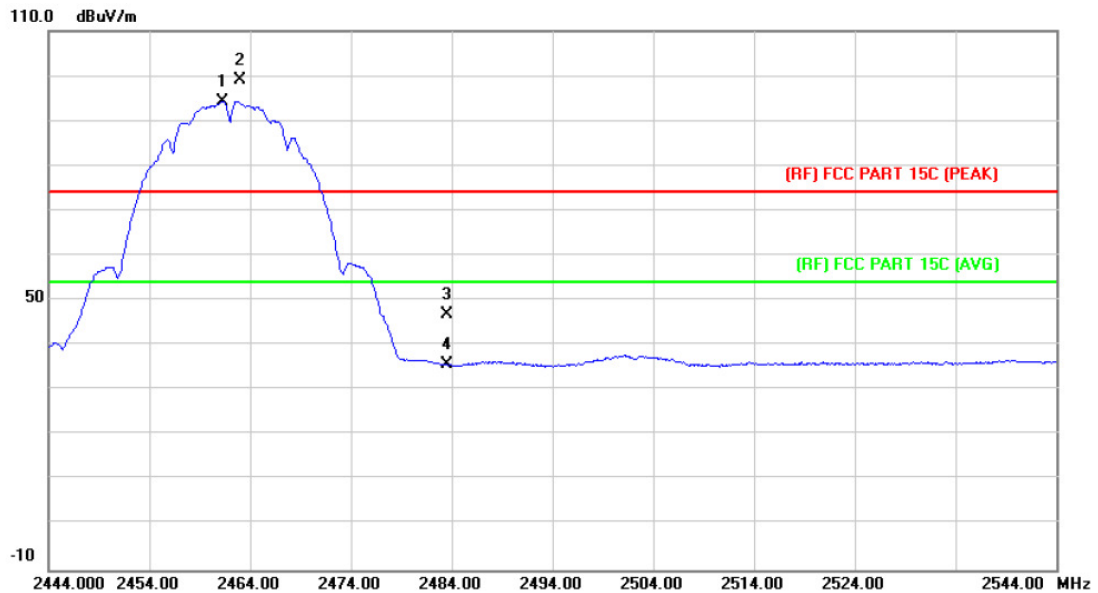
EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	45.27	0.77	46.04	74.00	-27.96	peak
2		2390.000	33.94	0.77	34.71	54.00	-19.29	AVG
3	*	2412.800	91.71	0.86	92.57	Fundamental Frequency		AVG
4	X	2413.400	96.31	0.86	97.17	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

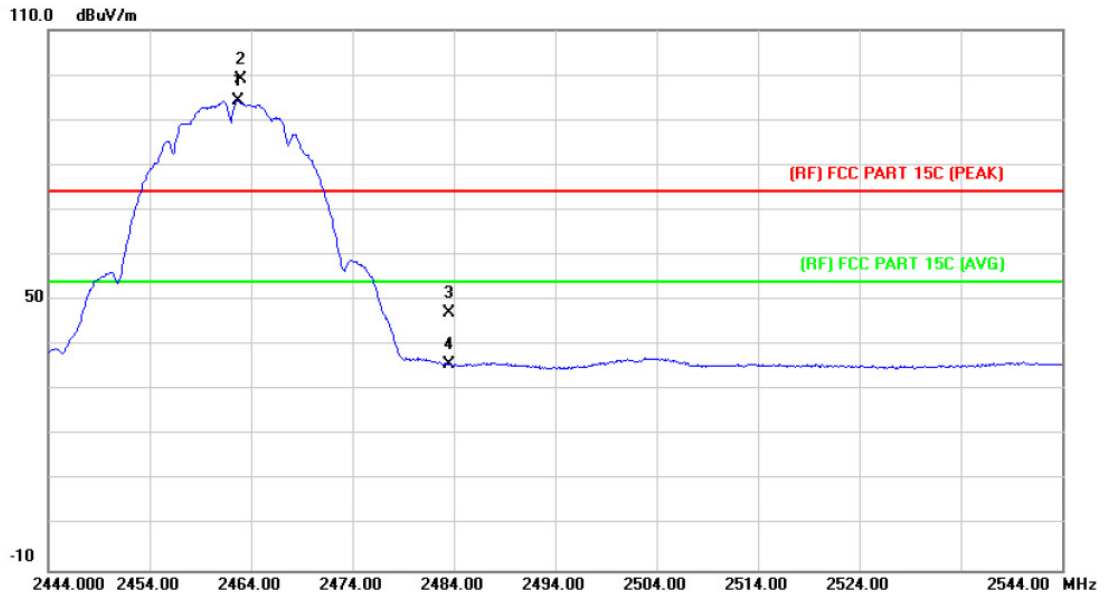
EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	2461.300	93.27	1.07	94.34	Fundamental Frequency		AVG
2	X	2463.000	97.87	1.08	98.95	Fundamental Frequency		peak
3		2483.500	45.65	1.17	46.82	74.00	-27.18	peak
4		2483.500	34.54	1.17	35.71	54.00	-18.29	AVG

Emission Level= Read Level+ Correct Factor

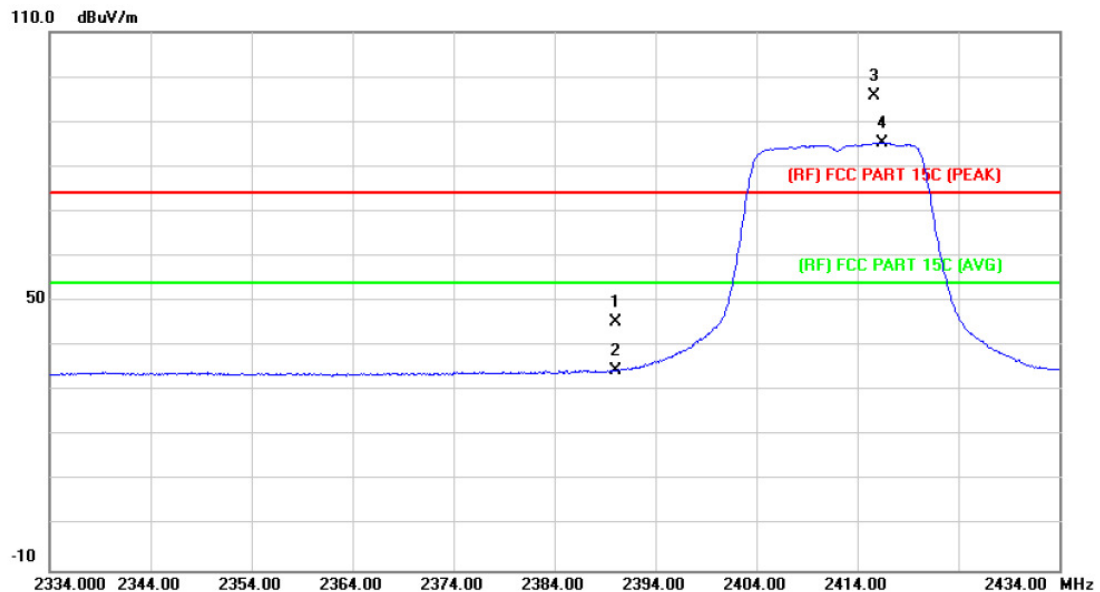
EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	2462.700	93.15	1.08	94.23	Fundamental Frequency		AVG
2	X	2463.000	97.86	1.08	98.94	Fundamental Frequency		peak
3		2483.500	45.92	1.17	47.09	74.00	-26.91	peak
4		2483.500	34.55	1.17	35.72	54.00	-18.28	AVG

Emission Level= Read Level+ Correct Factor

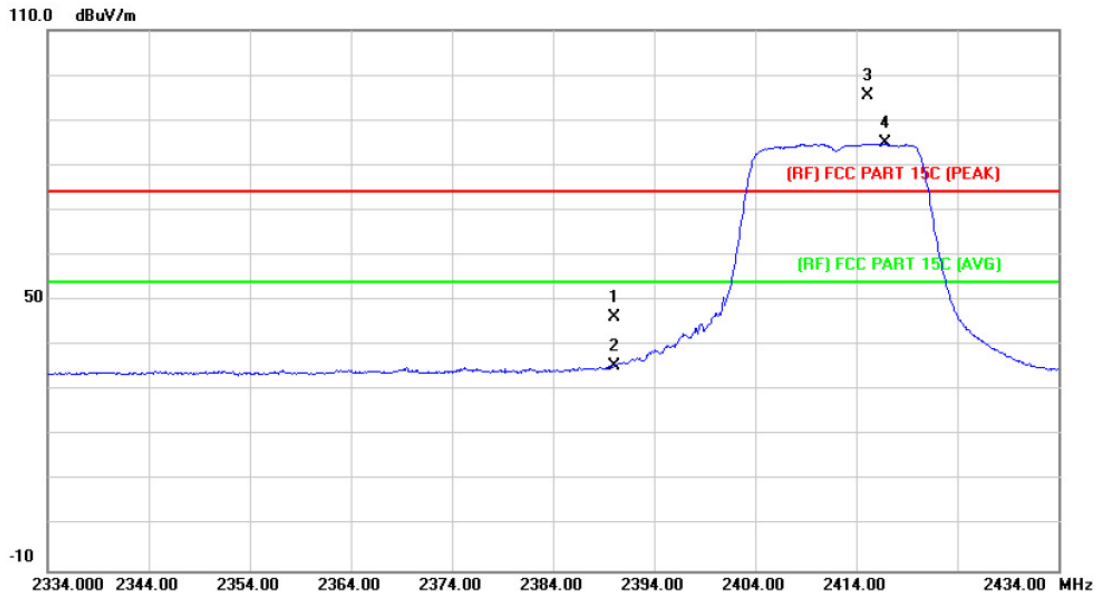
EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	44.61	0.77	45.38	74.00	-28.62	peak
2		2390.000	33.71	0.77	34.48	54.00	-19.52	AVG
3	X	2415.700	94.86	0.88	95.74	Fundamental Frequency		peak
4	*	2416.400	84.34	0.88	85.22	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

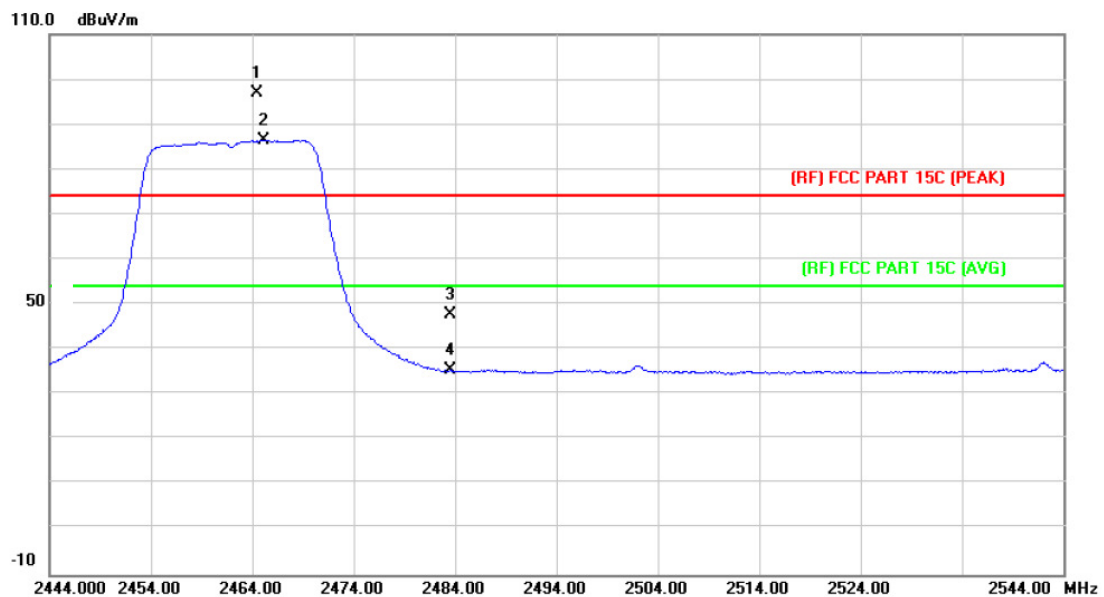
EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB Detector
1		2390.000	45.52	0.77	46.29	74.00	-27.71 peak
2		2390.000	34.59	0.77	35.36	54.00	-18.64 AVG
3	X	2415.100	94.43	0.88	95.31	Fundamental Frequency	peak
4	*	2416.900	83.93	0.88	84.81	Fundamental Frequency	AVG

Emission Level= Read Level+ Correct Factor

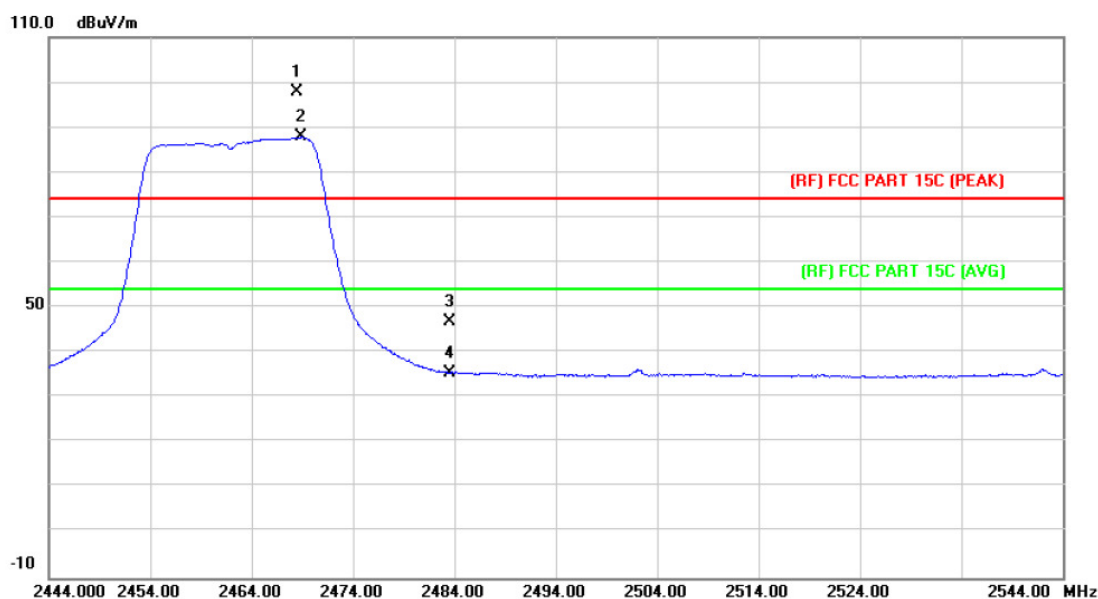
EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2464.400	95.77	1.08	96.85	Fundamental Frequency		peak
2	*	2465.200	85.43	1.09	86.52	Fundamental Frequency		AVG
3		2483.500	46.68	1.17	47.85	74.00	-26.15	peak
4		2483.500	34.18	1.17	35.35	54.00	-18.65	AVG

Emission Level= Read Level+ Correct Factor

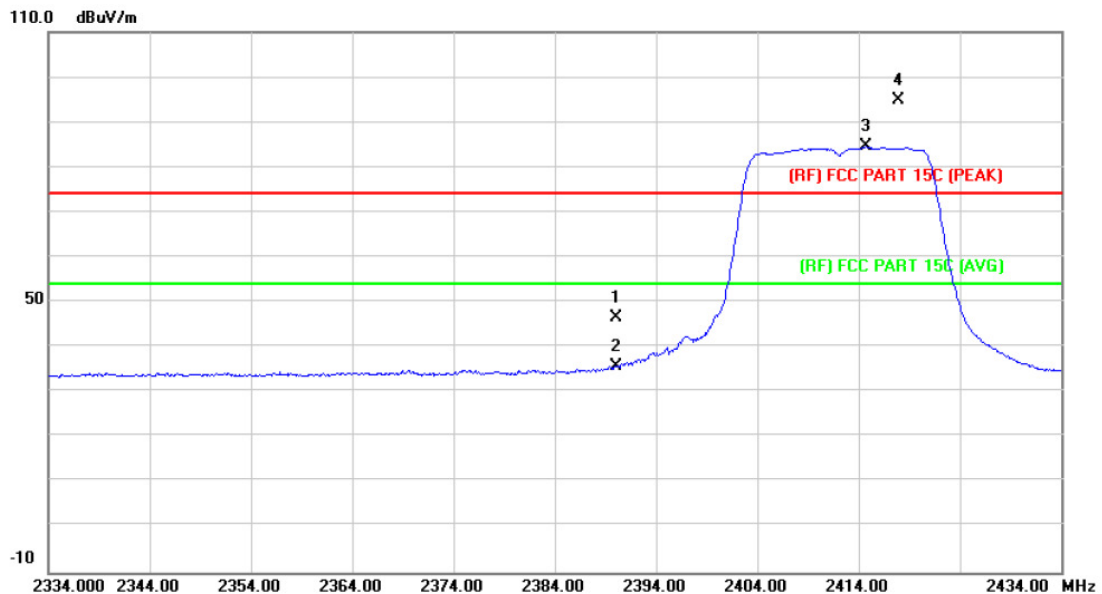
EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2468.500	96.83	1.11	97.94	Fundamental Frequency		peak
2	*	2468.900	86.71	1.11	87.82	Fundamental Frequency		AVG
3		2483.500	45.73	1.17	46.90	74.00	-27.10	peak
4		2483.500	34.40	1.17	35.57	54.00	-18.43	AVG

Emission Level= Read Level+ Correct Factor

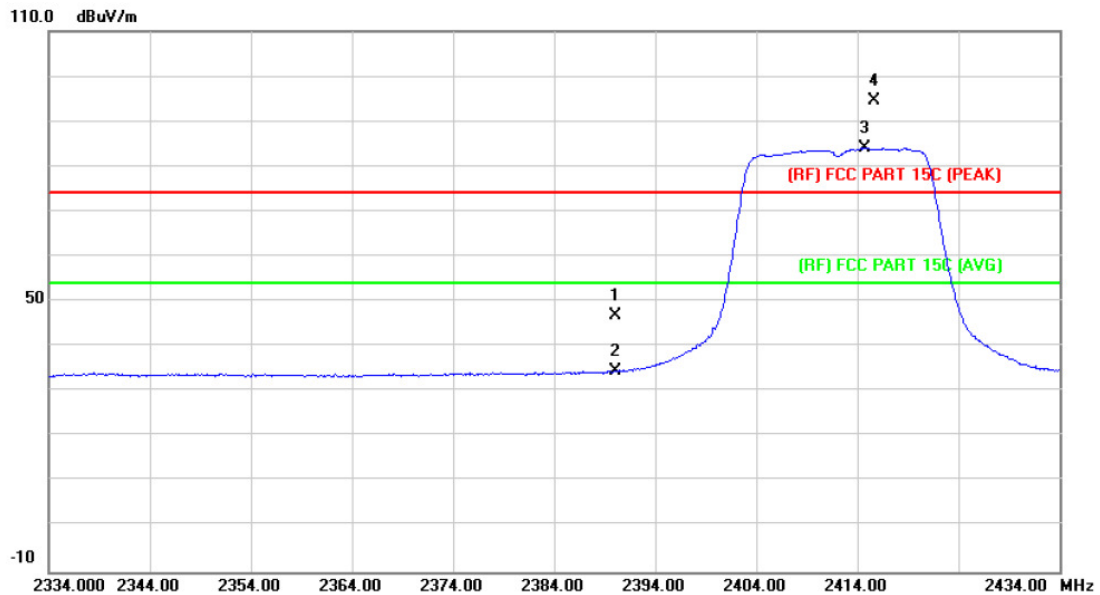
EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	45.80	0.77	46.57	74.00	-27.43	peak
2		2390.000	34.97	0.77	35.74	54.00	-18.26	AVG
3	*	2414.700	83.64	0.88	84.52	Fundamental Frequency		AVG
4	X	2417.900	94.10	0.89	94.99	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

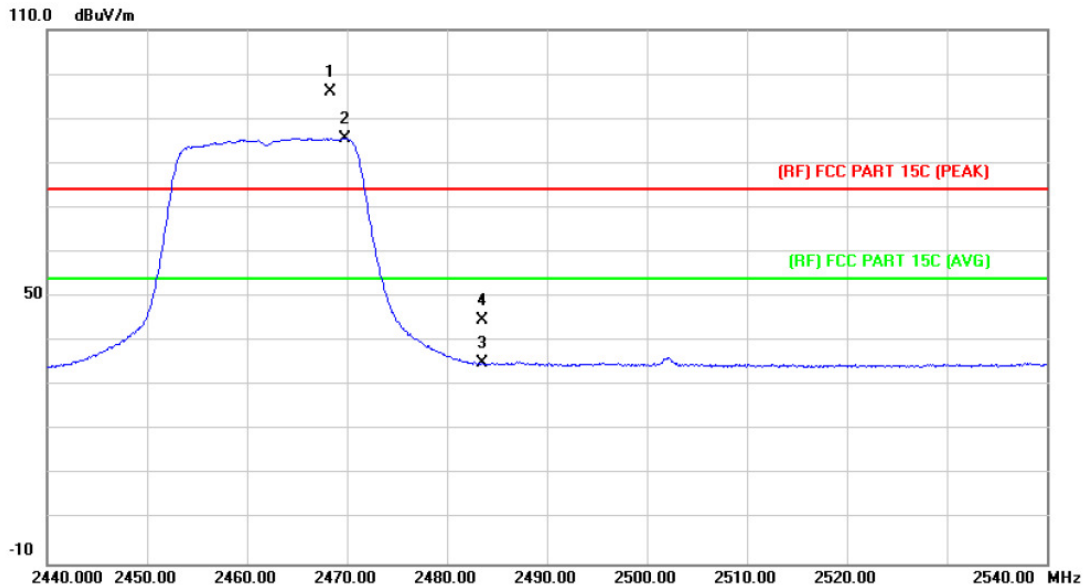
EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	45.99	0.77	46.76	74.00	-27.24	peak
2		2390.000	33.69	0.77	34.46	54.00	-19.54	AVG
3	*	2414.700	83.20	0.88	84.08	Fundamental Frequency		AVG
4	X	2415.700	93.67	0.88	94.55	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

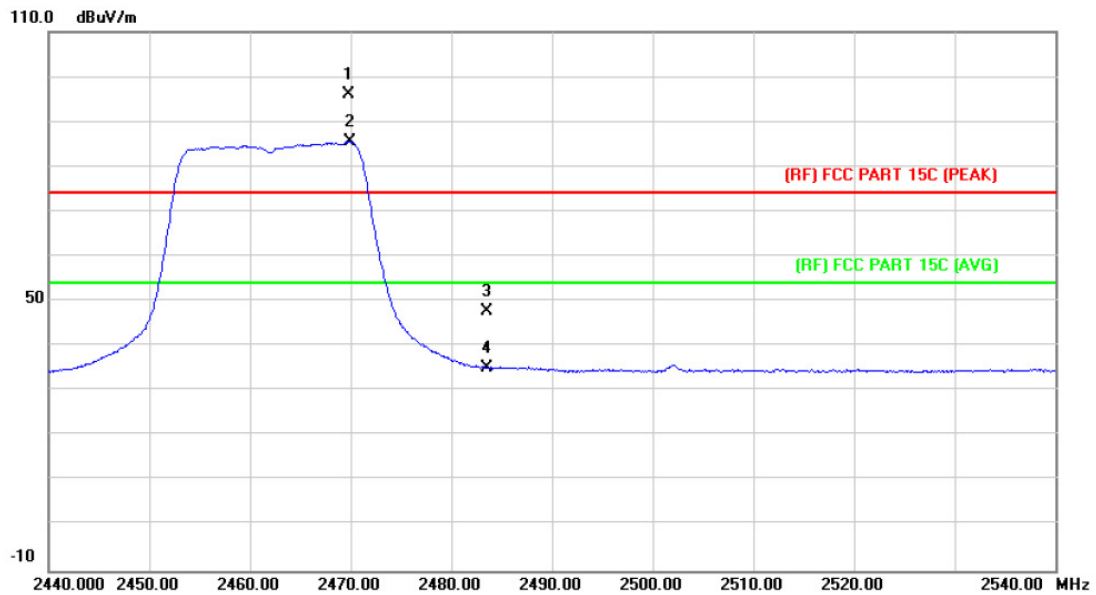
EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	2468.300	95.09	1.11	96.20	Fundamental Frequency	)	peak
2	X	2469.800	84.54	1.11	85.65	Fundamental Frequency	)	peak
3		2483.500	33.91	1.17	35.08	74.00	-38.92	peak
4		2483.500	43.71	1.17	44.88	74.00	-29.12	peak

Emission Level= Read Level+ Correct Factor

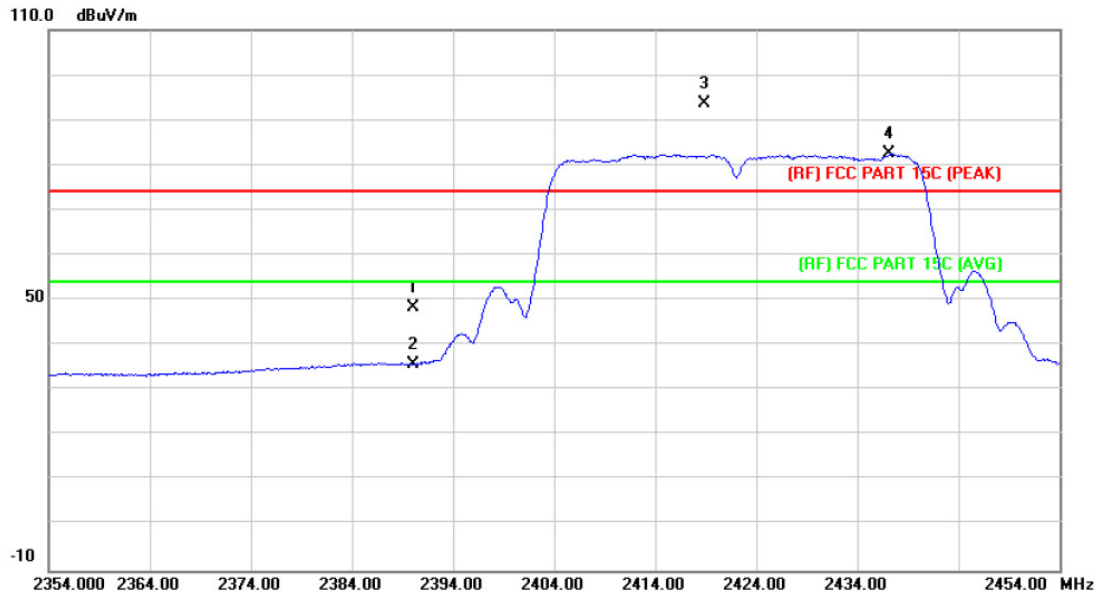
EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2469.800	94.83	1.11	95.94	Fundamental Frequency		peak
2	*	2469.900	84.44	1.11	85.55	Fundamental Frequency		AVG
3		2483.500	46.67	1.17	47.84	74.00	-26.16	peak
4		2483.500	34.11	1.17	35.28	54.00	-18.72	AVG

Emission Level= Read Level+ Correct Factor

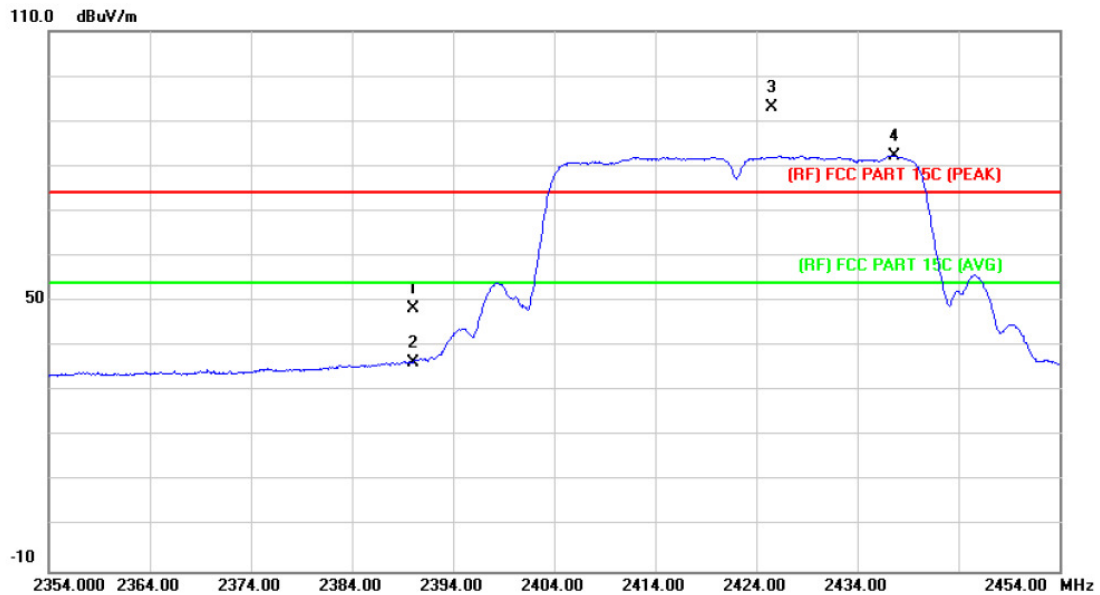
EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2422MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	47.61	0.77	48.38	74.00	-25.62	peak
2		2390.000	35.01	0.77	35.78	54.00	-18.22	AVG
3	X	2418.900	92.71	0.89	93.60	Fundamental Frequency		peak
4	*	2437.200	81.46	0.97	82.43	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

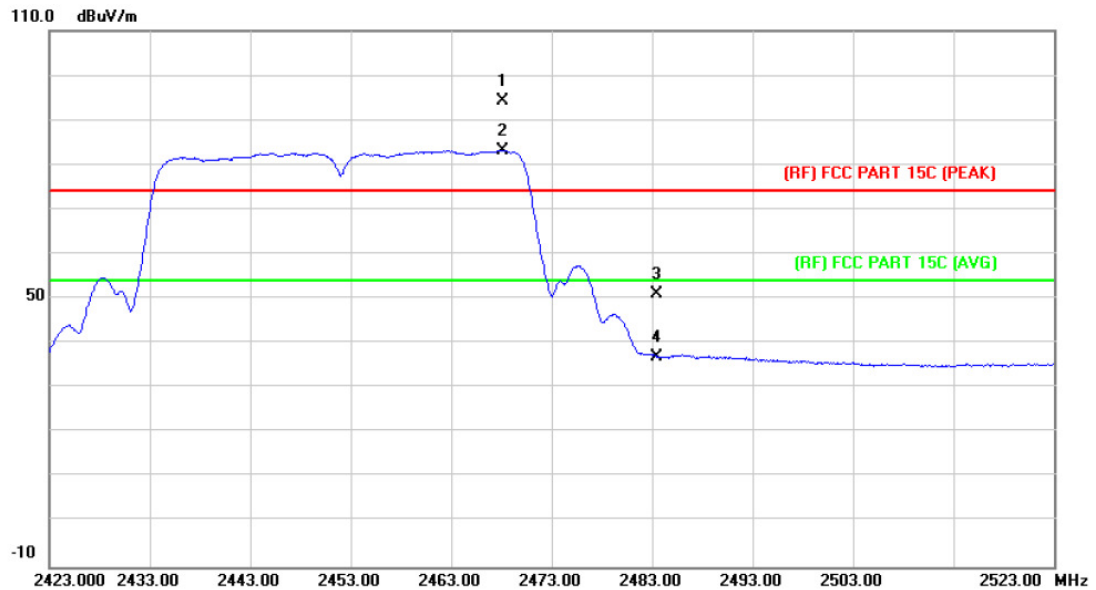
EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2422MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	47.64	0.77	48.41	74.00	-25.59	peak
2		2390.000	35.71	0.77	36.48	54.00	-17.52	AVG
3	X	2425.600	92.10	0.93	93.03	Fundamental Frequency		peak
4	*	2437.700	81.35	0.98	82.33	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

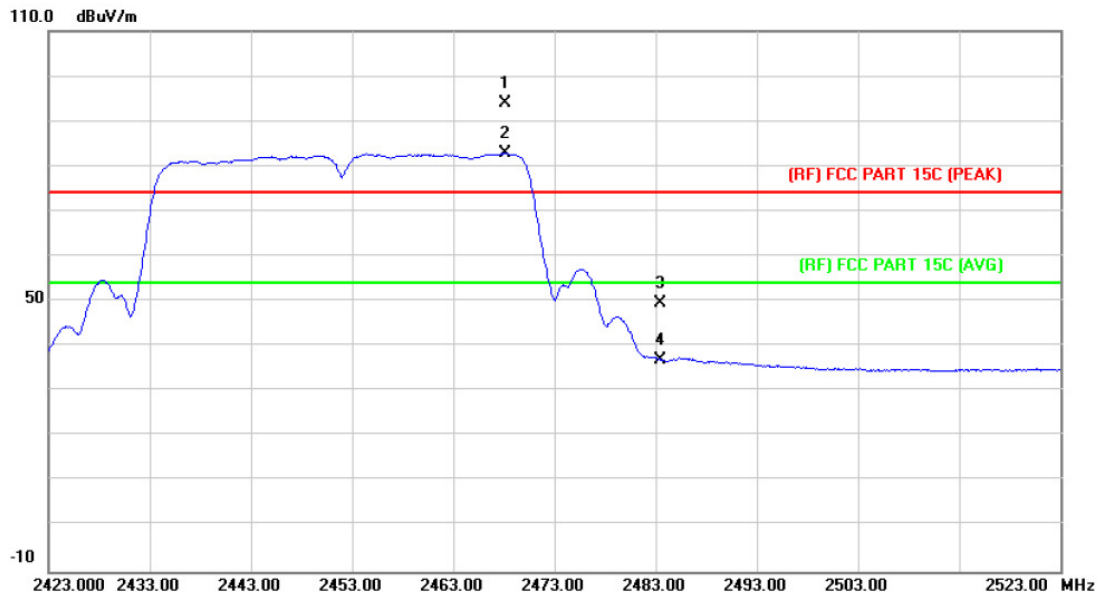
EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2452MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2468.100	93.05	1.11	94.16	Fundamental Frequency		peak
2	*	2468.200	82.15	1.11	83.26	Fundamental Frequency		AVG
3		2483.500	49.94	1.17	51.11	74.00	-22.89	peak
4		2483.500	35.93	1.17	37.10	54.00	-16.90	AVG

Emission Level= Read Level+ Correct Factor

EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2452MHz		
Remark:	N/A		

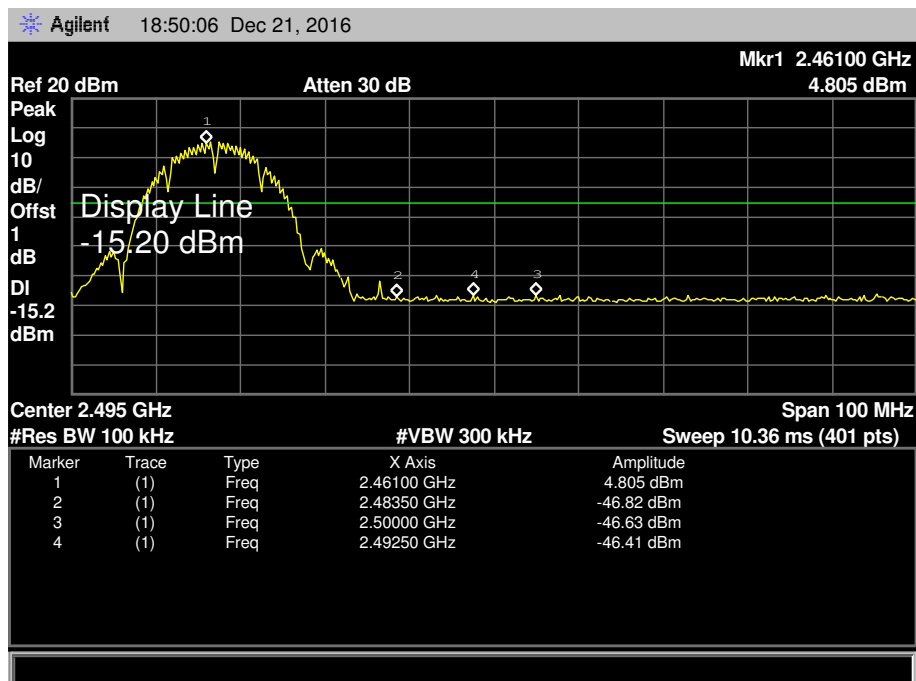
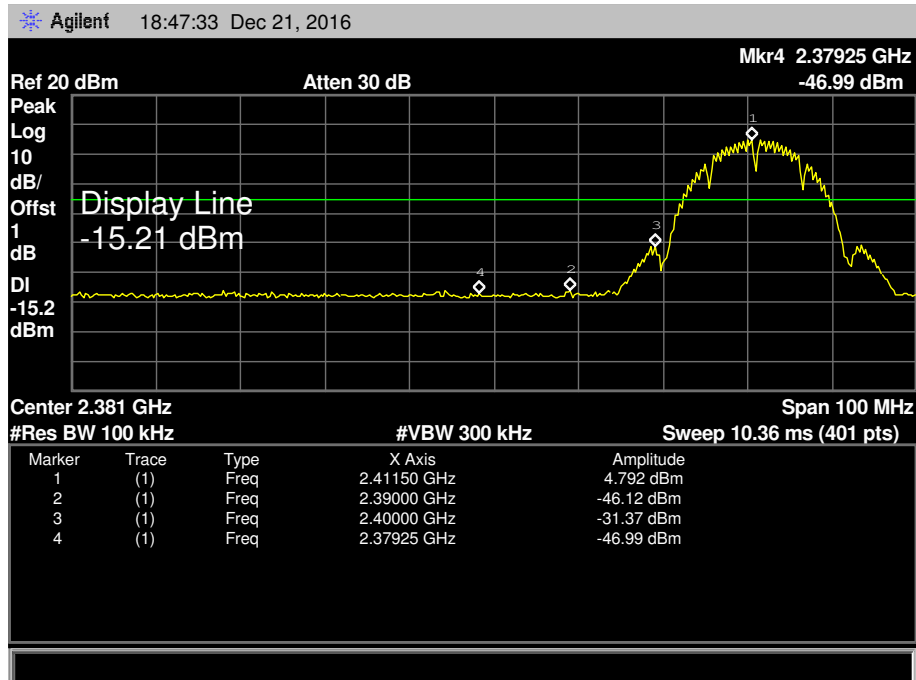


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2468.100	92.70	1.11	93.81	Fundamental Frequency		peak
2	*	2468.200	81.77	1.11	82.88	Fundamental Frequency		AVG
3		2483.500	48.29	1.17	49.46	74.00	-24.54	peak
4		2483.500	35.85	1.17	37.02	54.00	-16.98	AVG

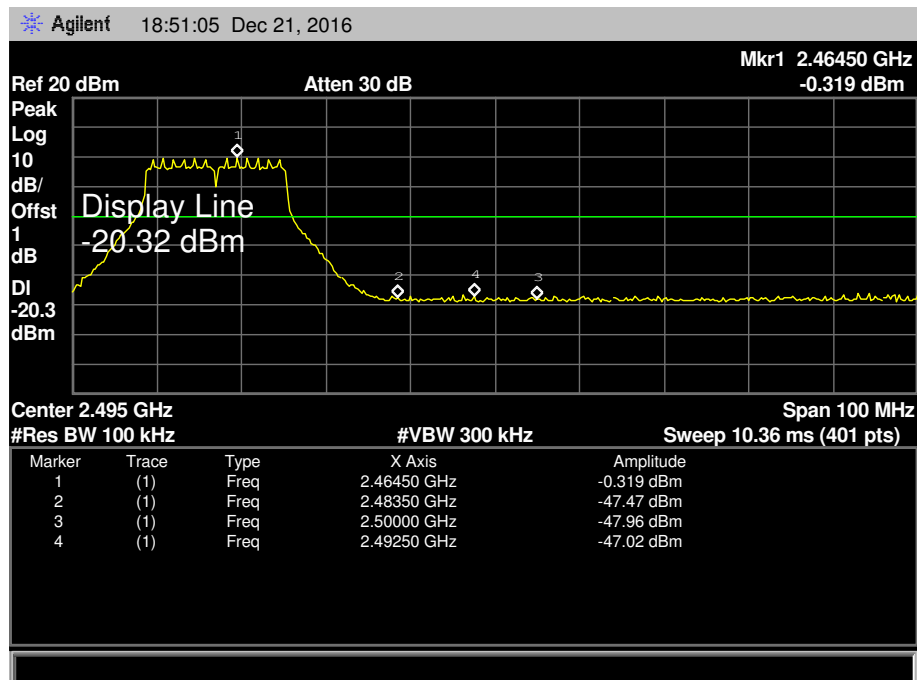
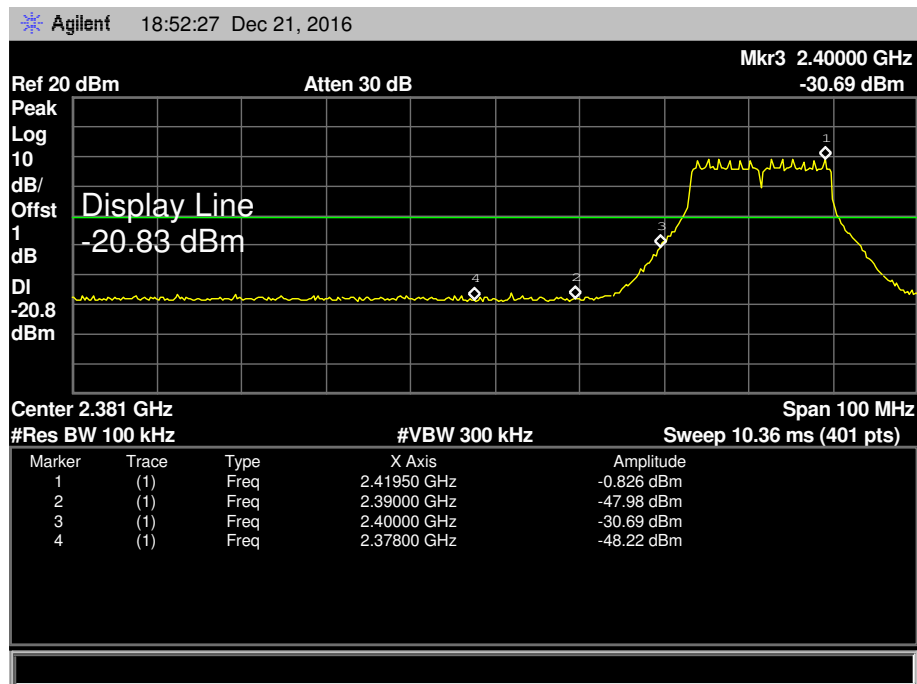
Emission Level= Read Level+ Correct Factor

(2) Conducted Test

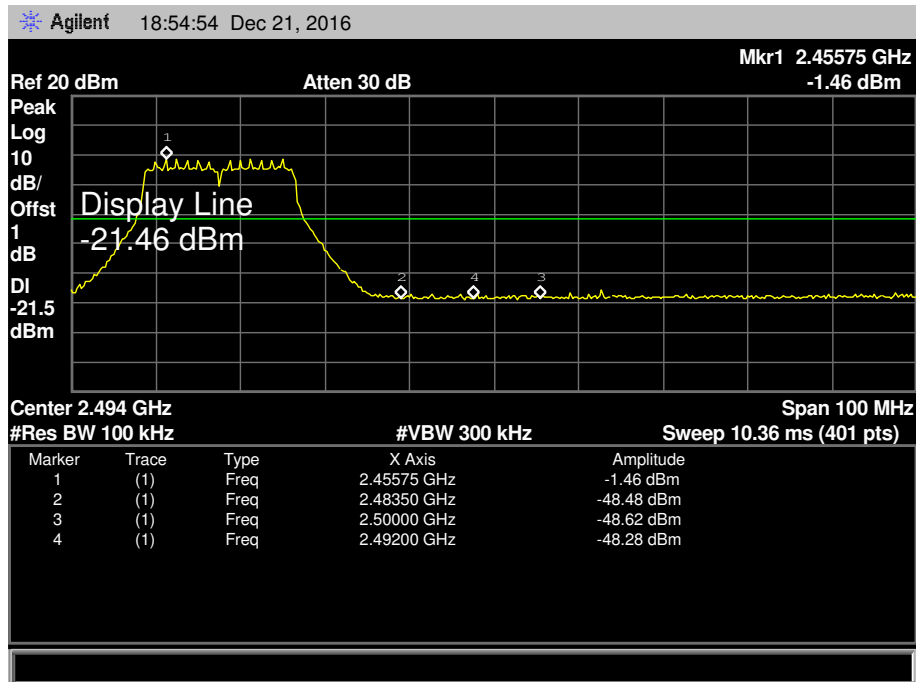
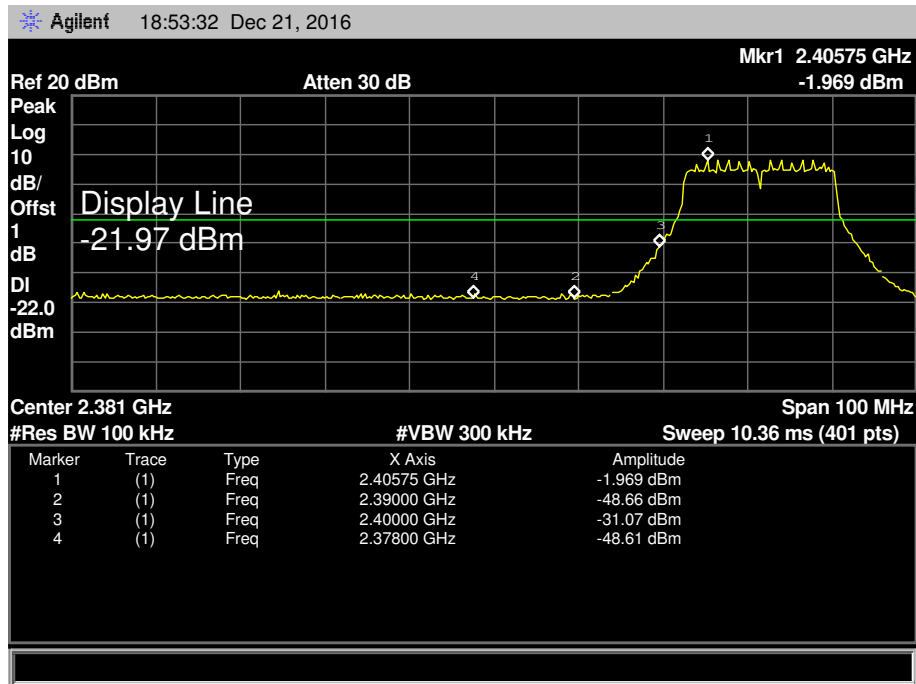
EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX B Mode 2412MHz / TX B Mode 2462MHz		
Remark:	The EUT is programed in continuously transmitting mode		



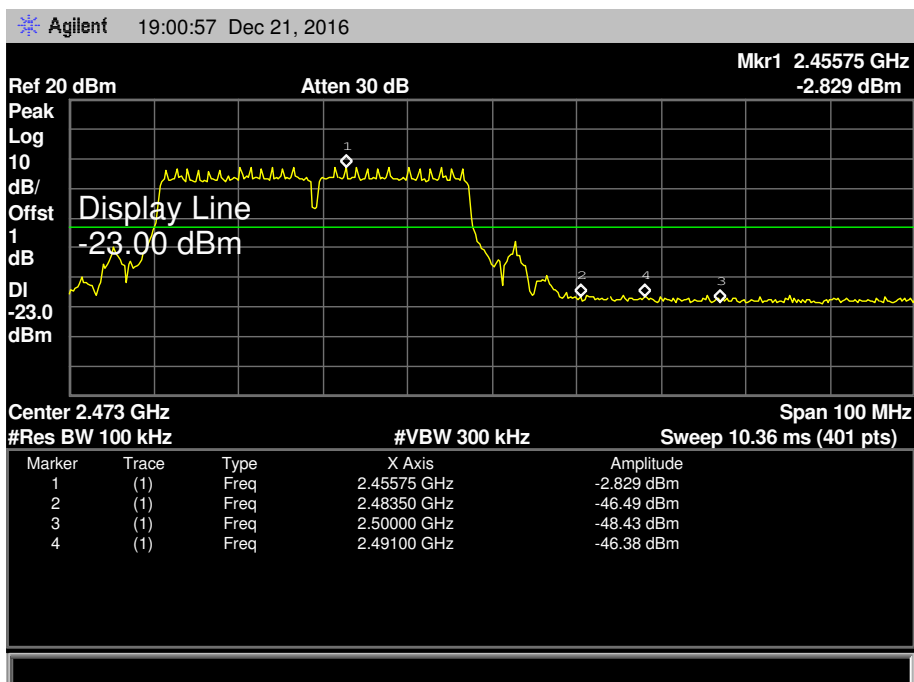
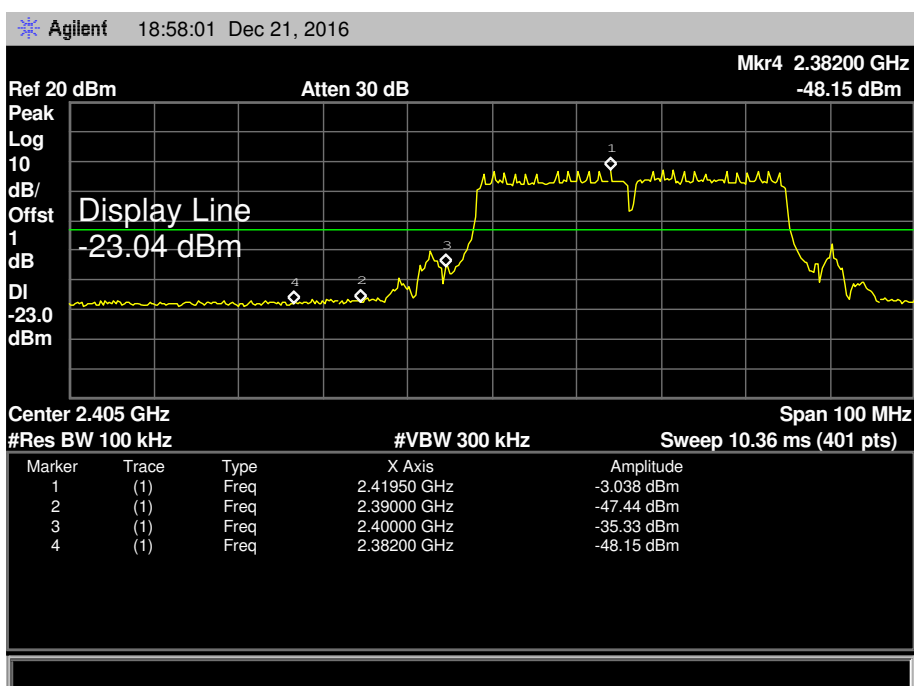
EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX G Mode 2412MHz / TX G Mode 2462MHz		
Remark:	The EUT is programed in continuously transmitting mode		



EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
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		



EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX N(HT40) Mode 2422MHz / TX N(HT40) Mode 2452MHz		
Remark:	The EUT is programed in continuously transmitting mode		



7. Bandwidth Test

7.1 Test Standard and Limit

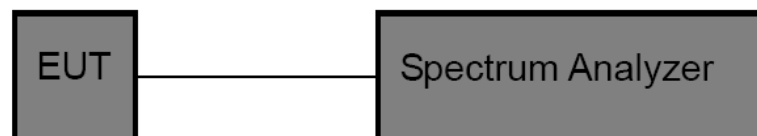
7.1.1 Test Standard

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:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
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	10.059	14.9885	>=0.5
2437	10.067	14.9828	
2462	9.622	14.9642	

802.11B Mode

2412 MHz

Agilent16:46:23 Dec 21, 2016

Ref 20 dBm

Atten 30 dB

#Peak

Log

10

dB/

Offst

1

dB

Ref Level

20.00 dBm

→

←

Center 2.412 GHz

#Res BW 100 kHz

#VBW 300 kHz

Span 20 MHz

Sweep 4 ms (401 pts)

Occupied Bandwidth

14.9885 MHz

Occ BW % Pwr

99.00 %

x dB

-6.00 dB

Transmit Freq Error

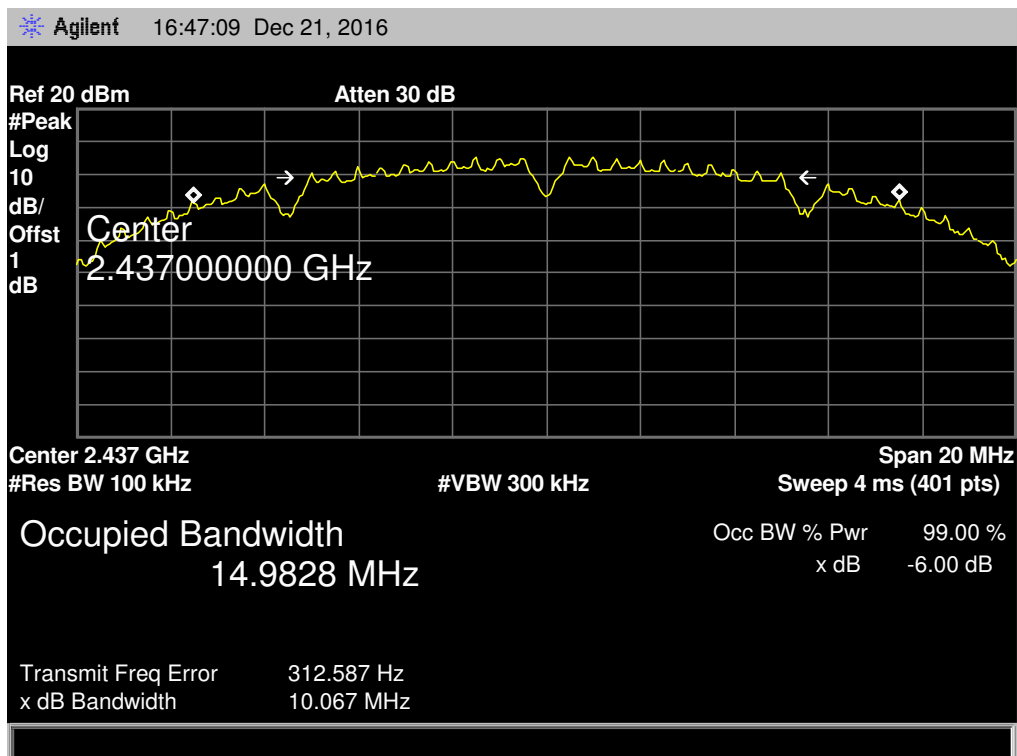
10.672 kHz

x dB Bandwidth

10.059 MHz

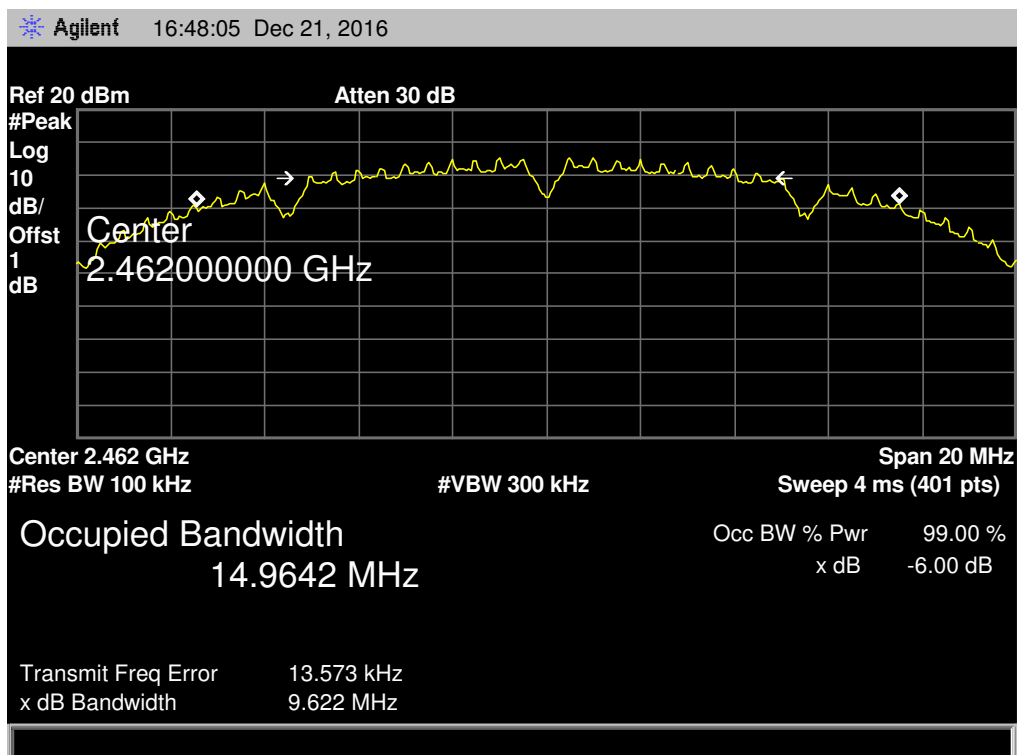
802.11B Mode

2437 MHz



802.11B Mode

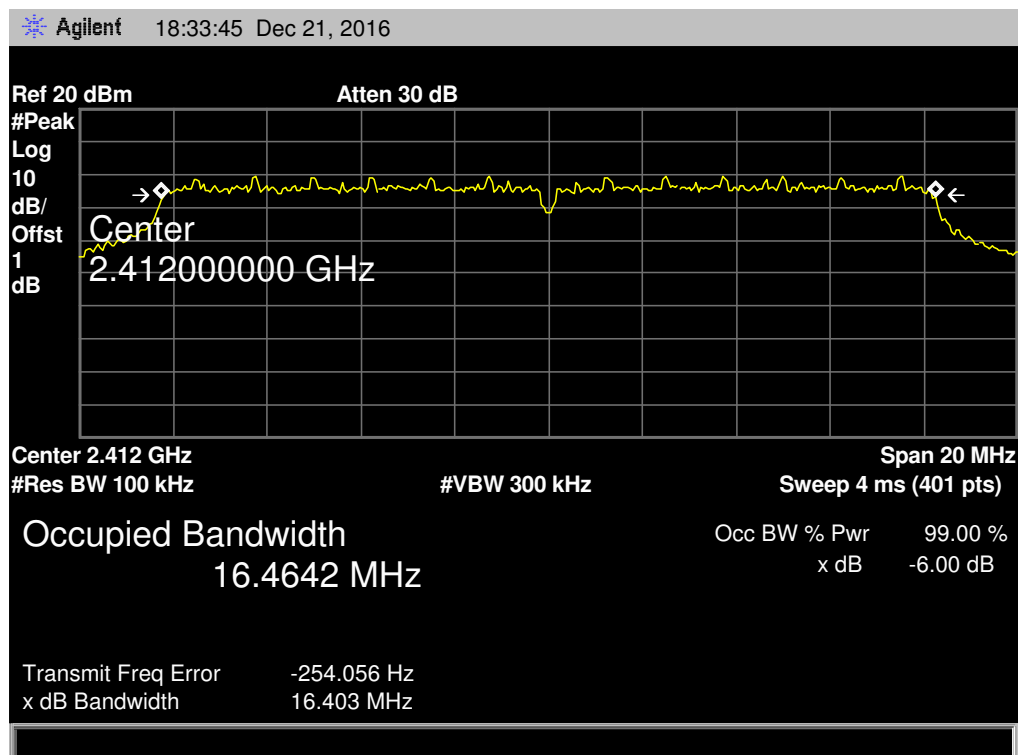
2462 MHz



EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
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	16.403	16.4642	>=0.5
2437	16.437	16.5179	
2462	16.396	16.5227	

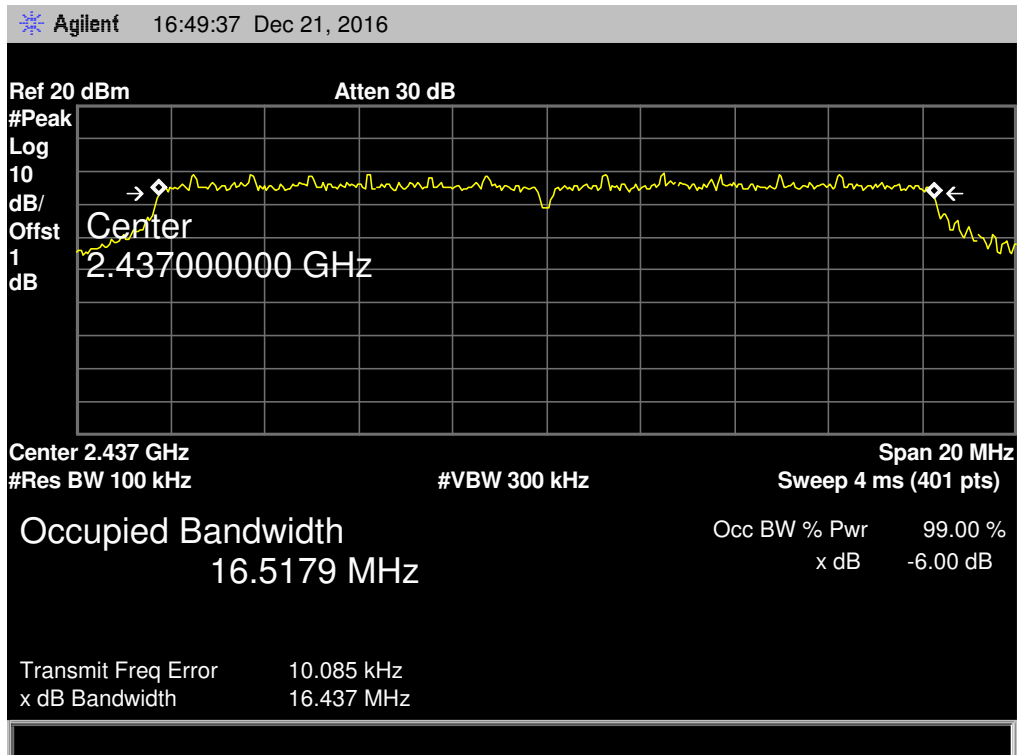
802.11G Mode

2412 MHz



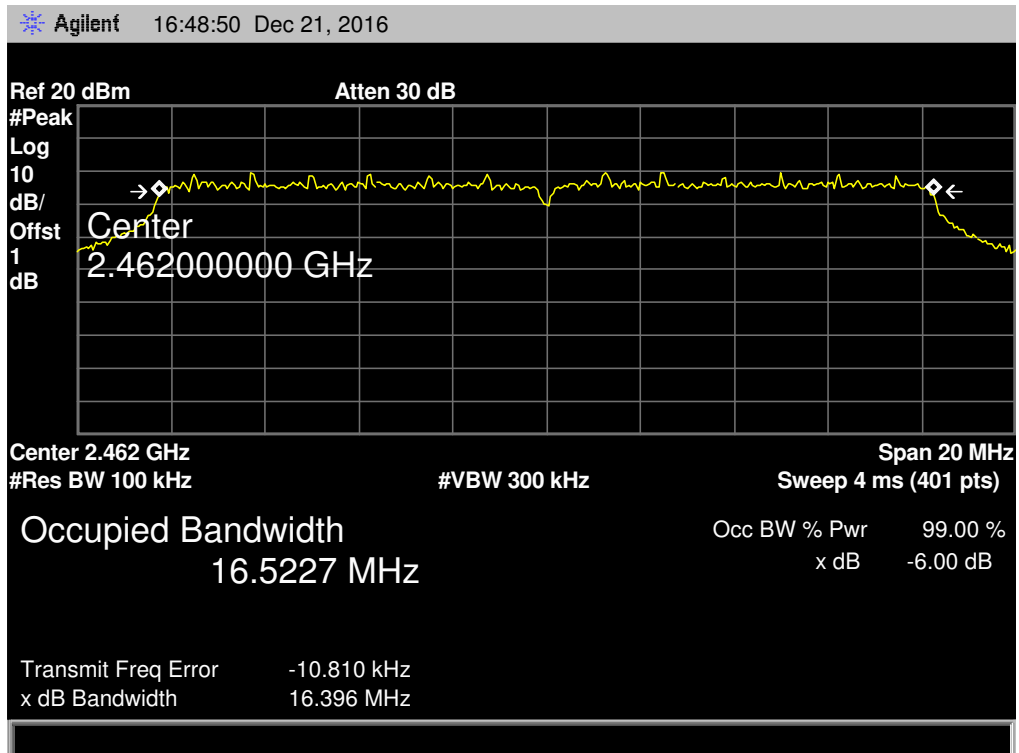
802.11G Mode

2437 MHz



802.11G Mode

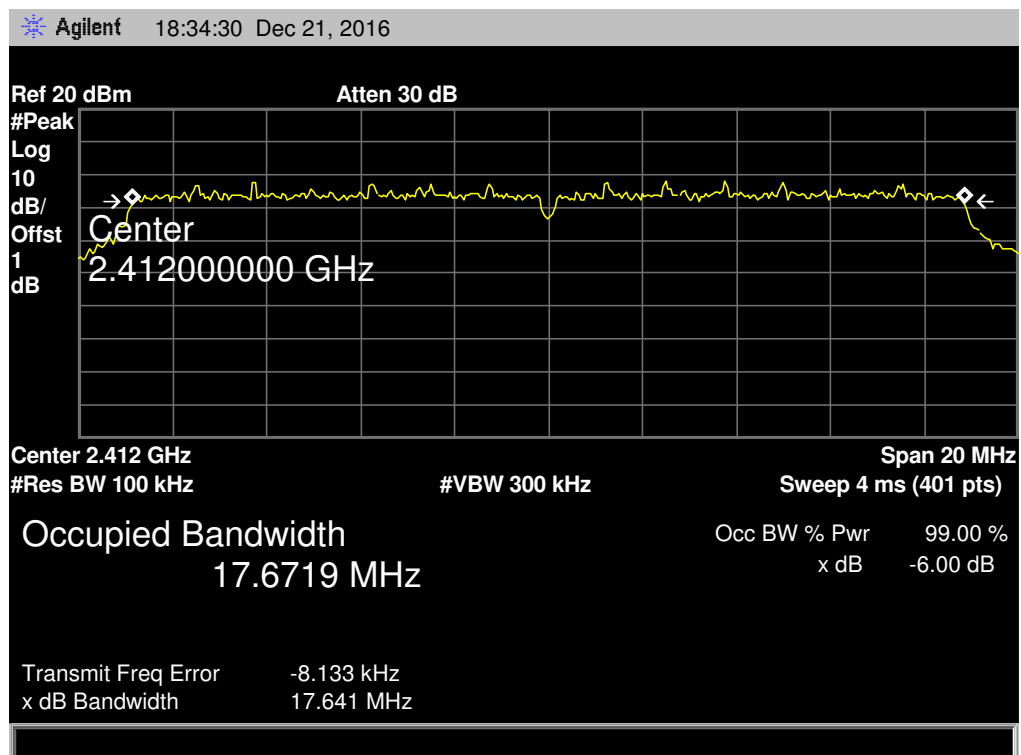
2462 MHz



EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
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	17.641	17.6719	>=0.5
2437	17.648	17.6408	
2462	17.642	17.6285	

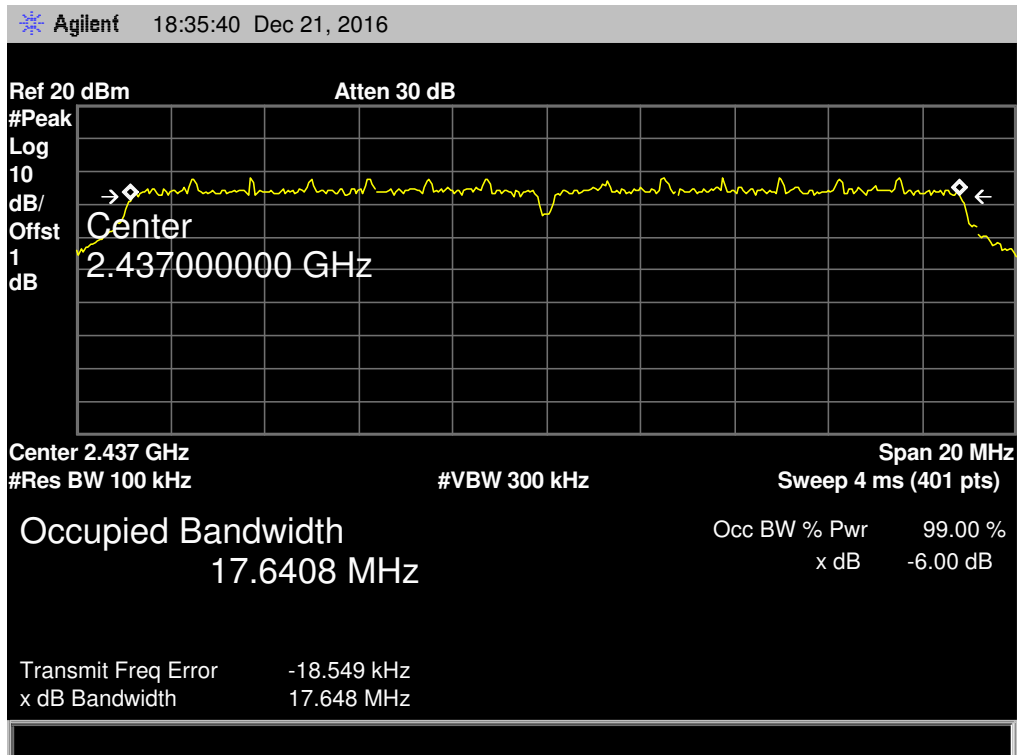
802.11N(HT20) Mode

2412 MHz



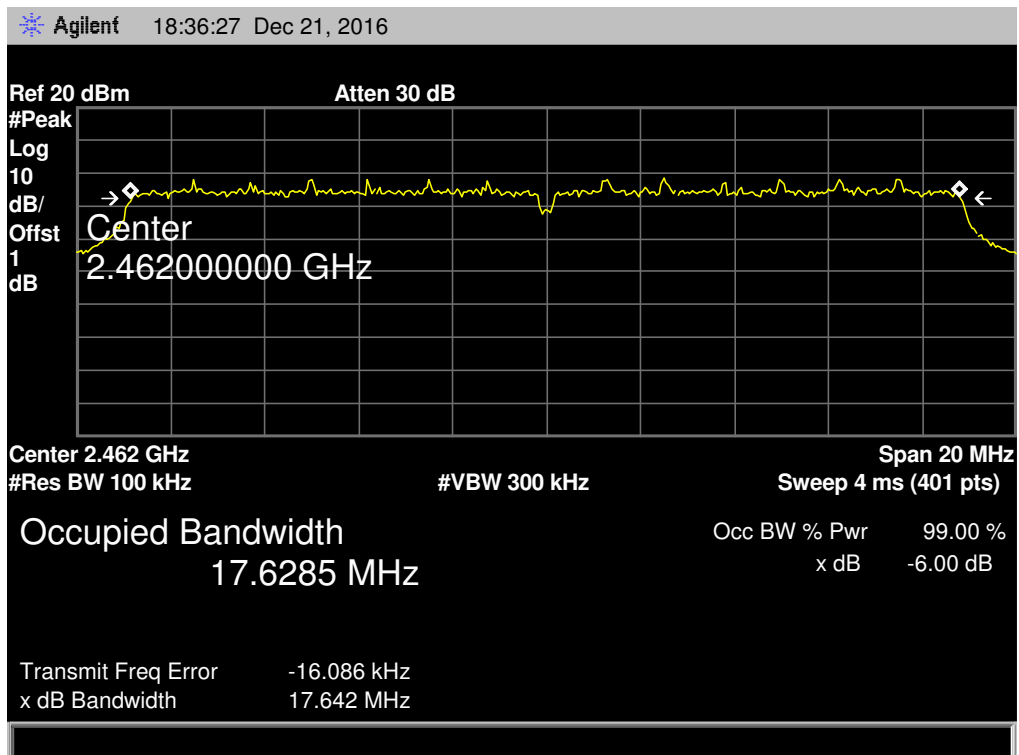
802.11N(HT20) Mode

2437 MHz



802.11N(HT20) Mode

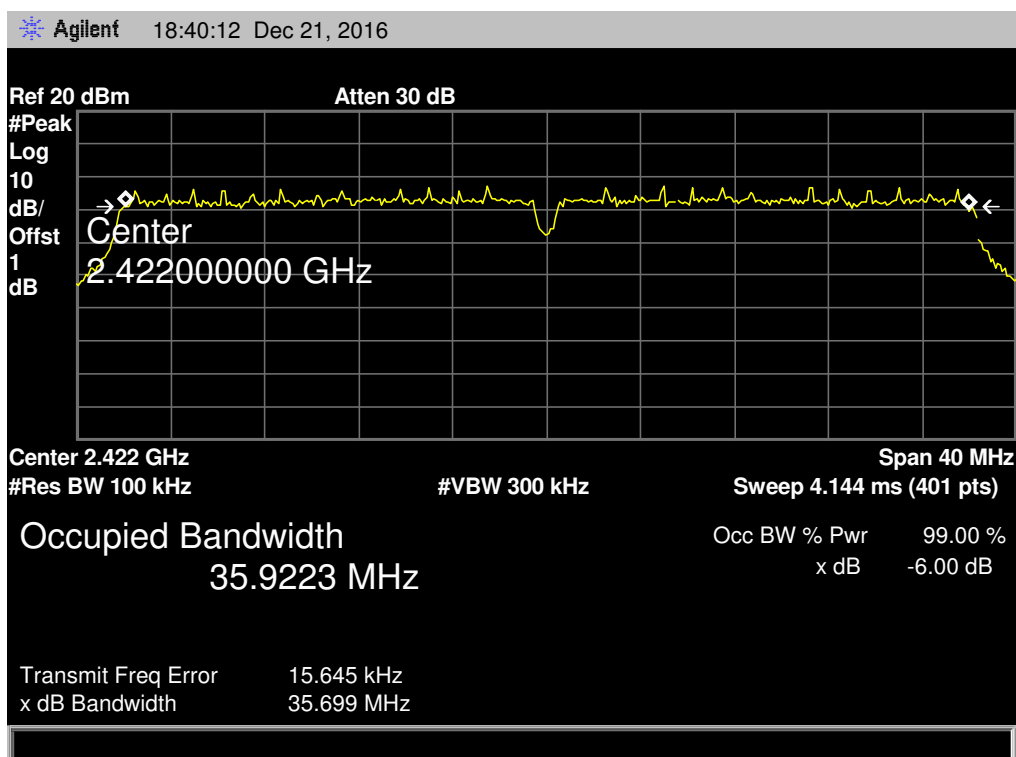
2462 MHz



EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11N(HT40) Mode		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2422	35.699	35.9223	>=0.5
2437	35.912	35.8404	
2452	36.067	35.8951	

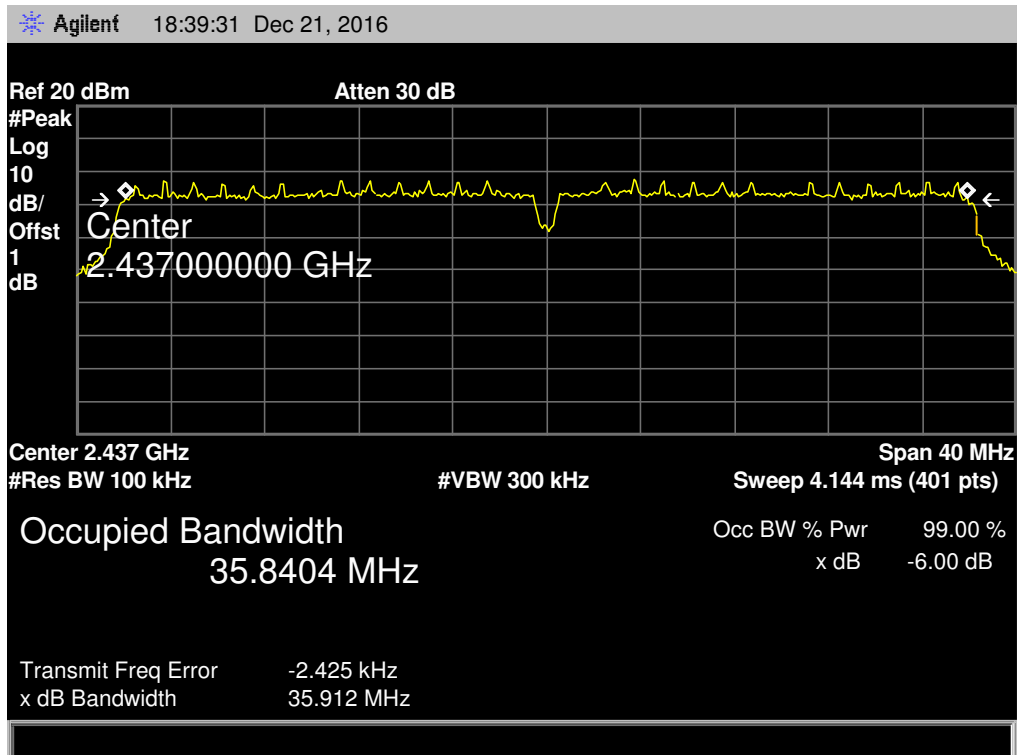
802.11N(HT40) Mode

2422 MHz



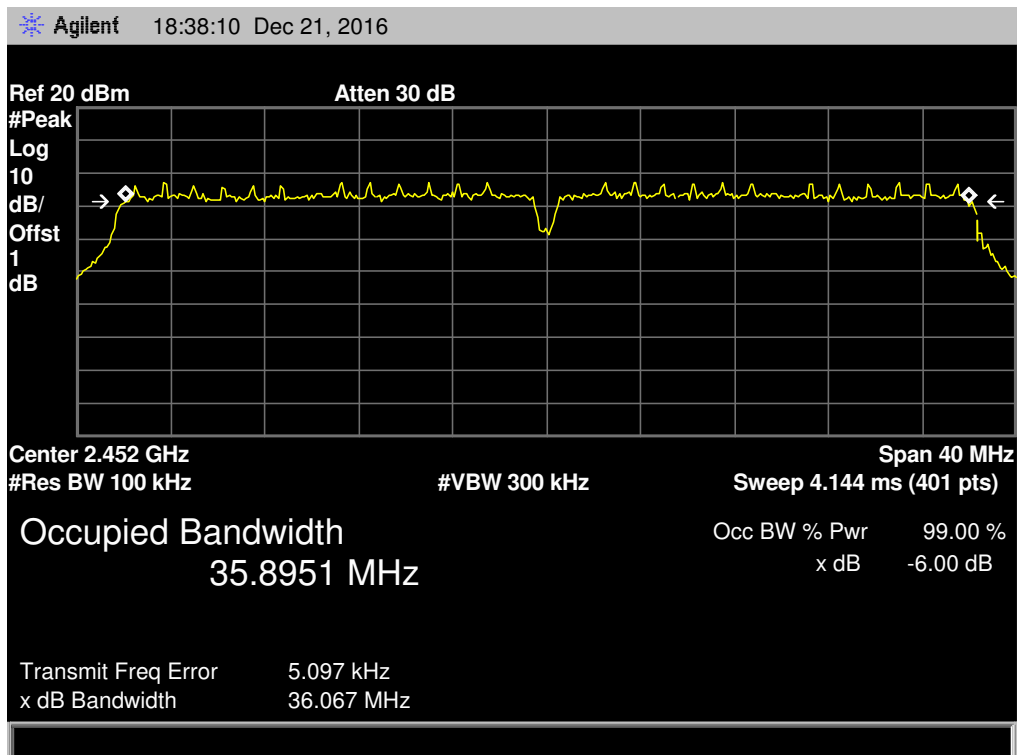
802.11N(HT40) Mode

2437 MHz



802.11N(HT40) Mode

2452 MHz



8. Peak Output Power Test

8.1 Test Standard and Limit

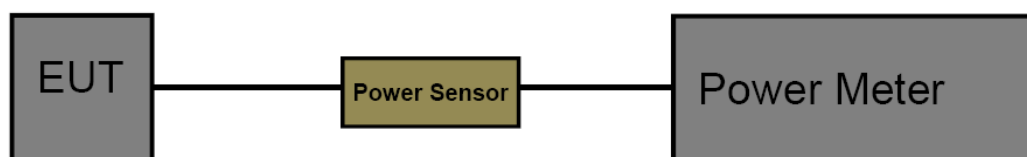
8.1.1 Test Standard

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

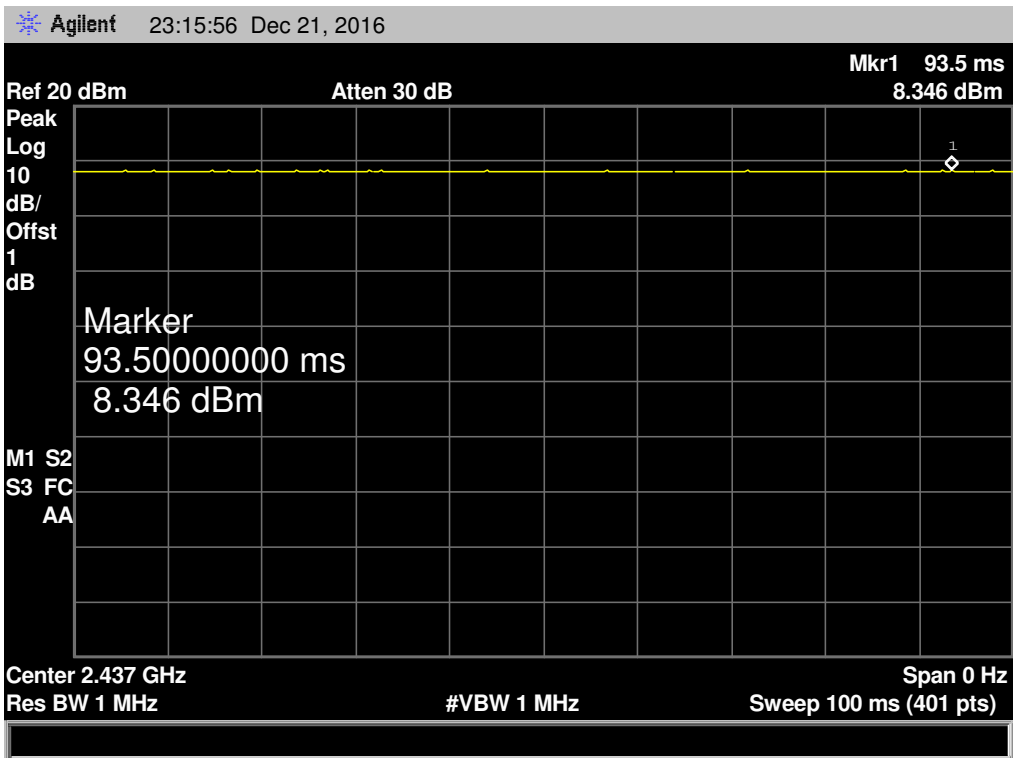
The EUT was set to continuously transmitting in the max power during the test.

8.5 Test Data

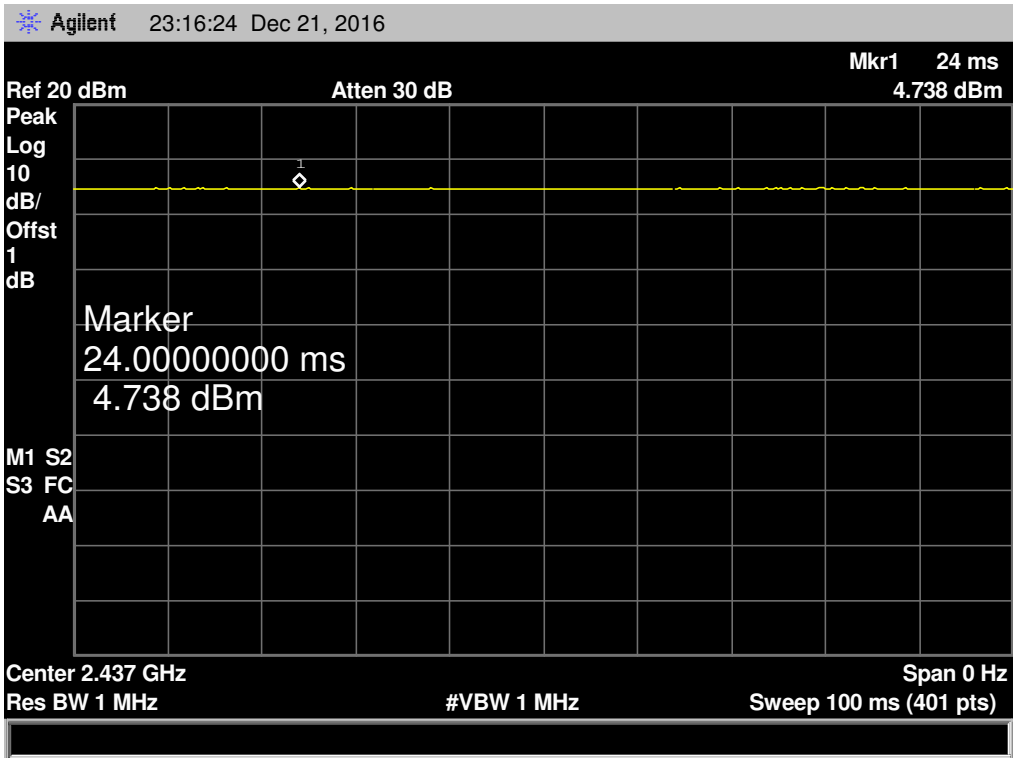
EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Mode	Channel frequency (MHz)	Test Result (dBm)	Limit (dBm)
802.11b	2412	18.44	30
	2437	18.77	
	2462	18.40	
802.11g	2412	16.07	
	2437	16.55	
	2462	16.94	
802.11n (HT20)	2412	15.06	
	2437	15.43	
	2462	15.16	
802.11n (HT40)	2422	14.78	
	2437	15.08	
	2452	14.53	
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	
802.11n (HT40)	2422	
	2437	
	2452	
Please see below plots		

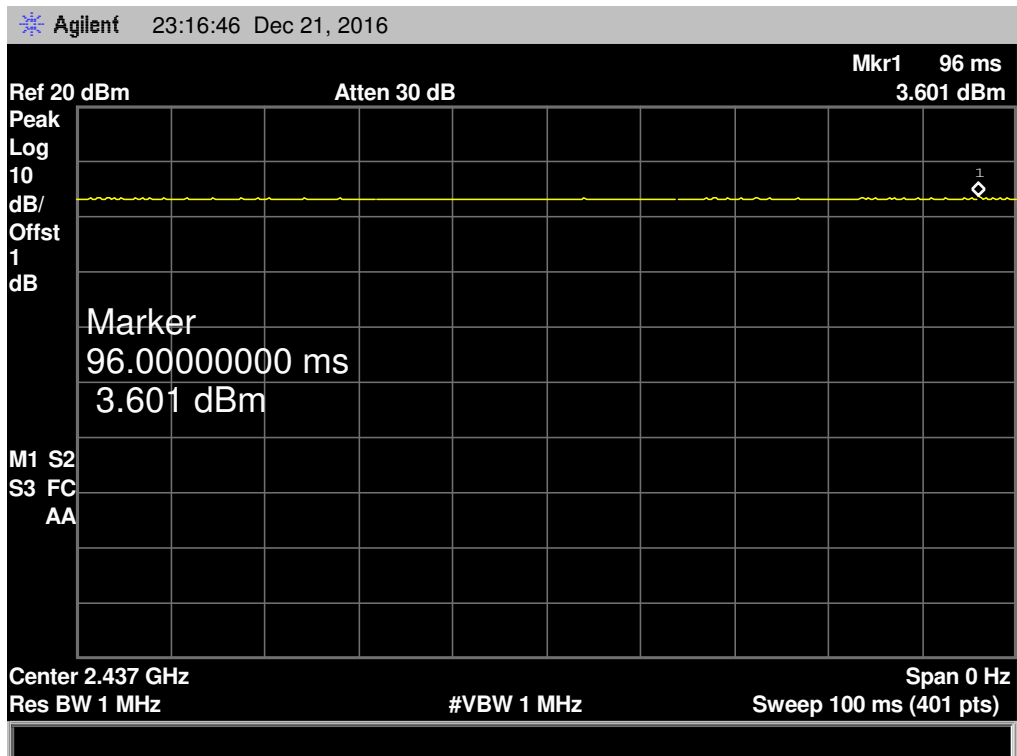
802.11 B Mode 2437 MHz



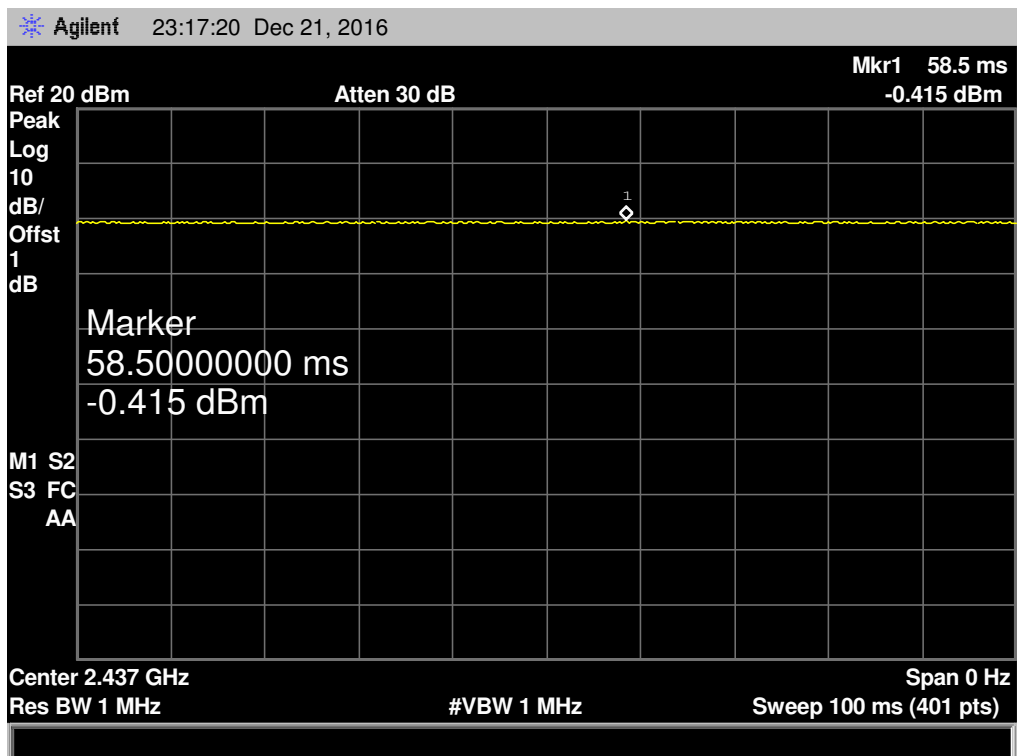
802.11 G Mode 2437 MHz



802.11 N(HT20) Mode 2437 MHz



802.11 N(HT40) Mode 2437 MHz



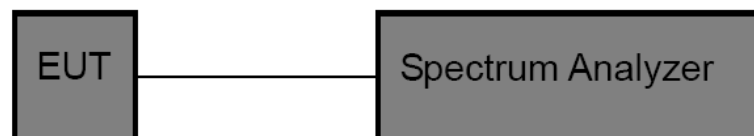
9. Power Spectral Density Test

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

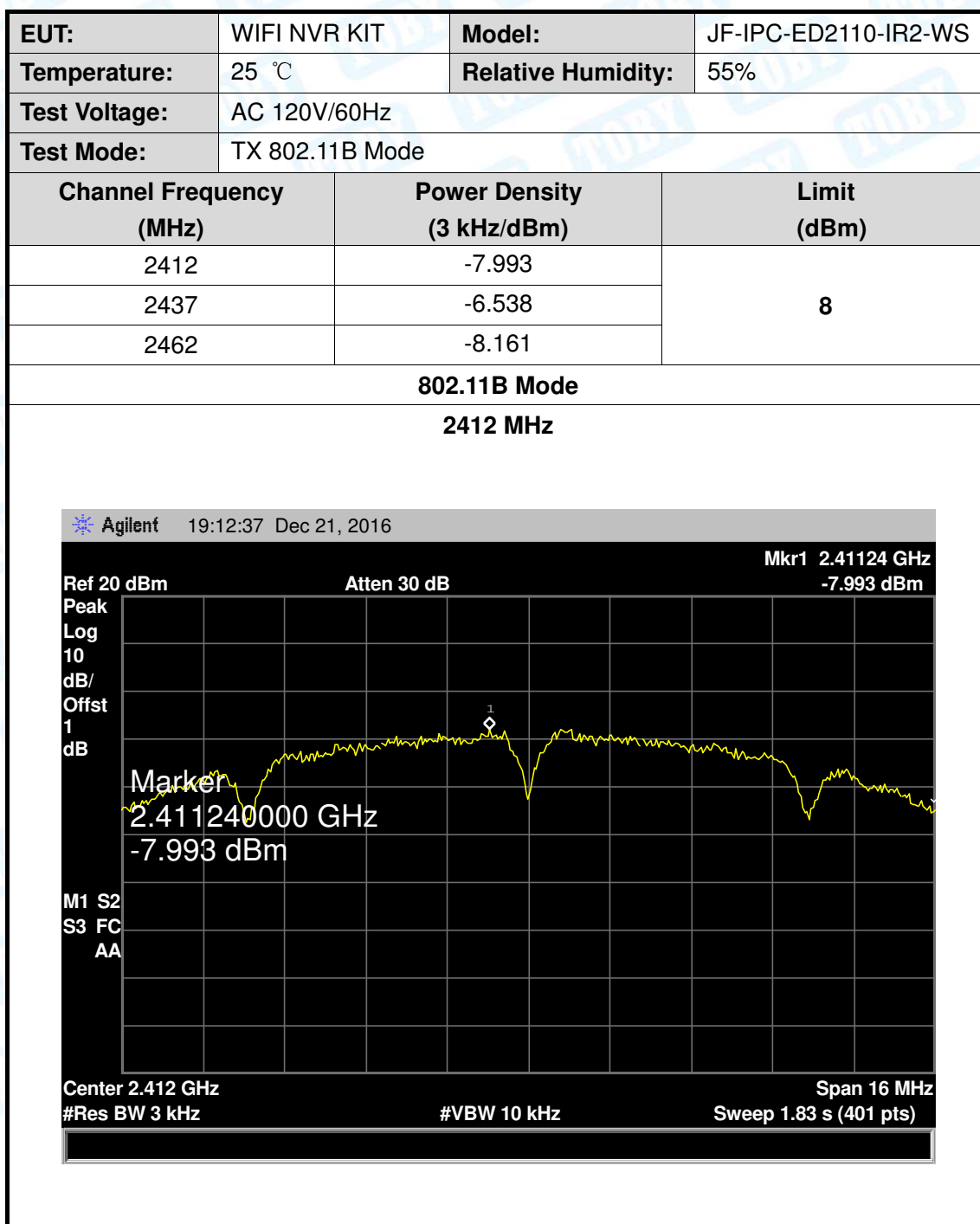
The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v03r05.

- (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

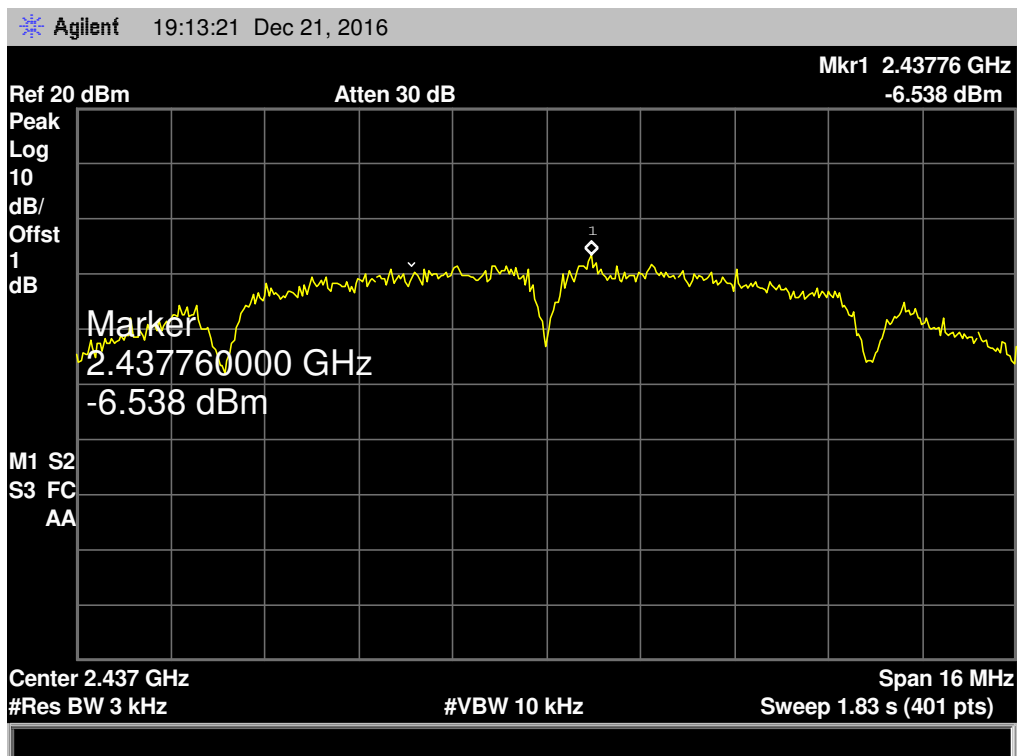
The EUT was set to continuously transmitting in each mode and low, Digital photo framesdle and high channel for the test.

9.5 Test Data



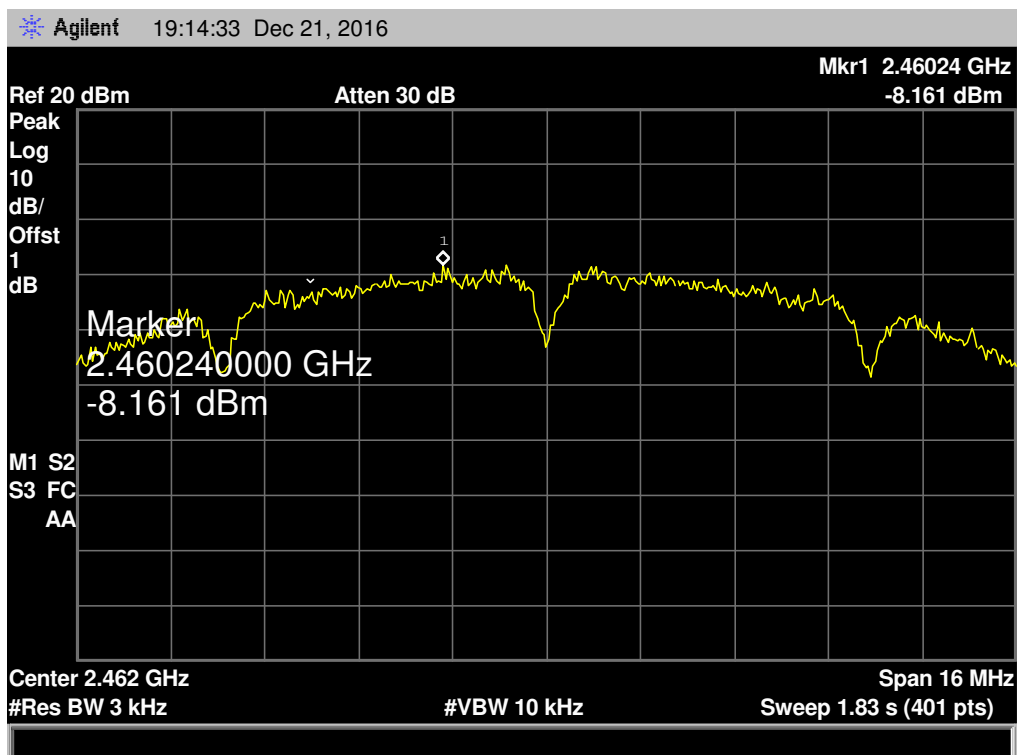
802.11B Mode

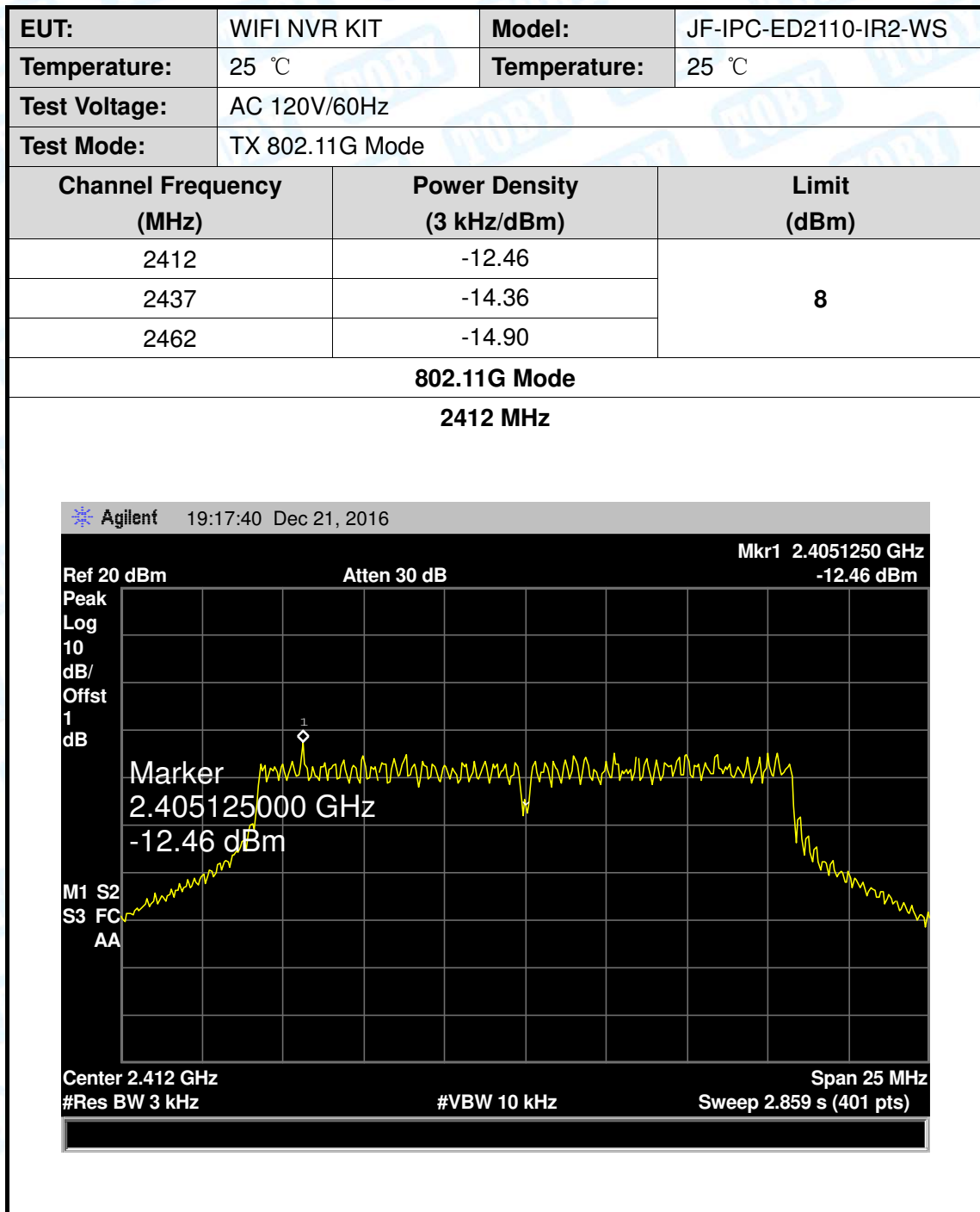
2437 MHz



802.11B Mode

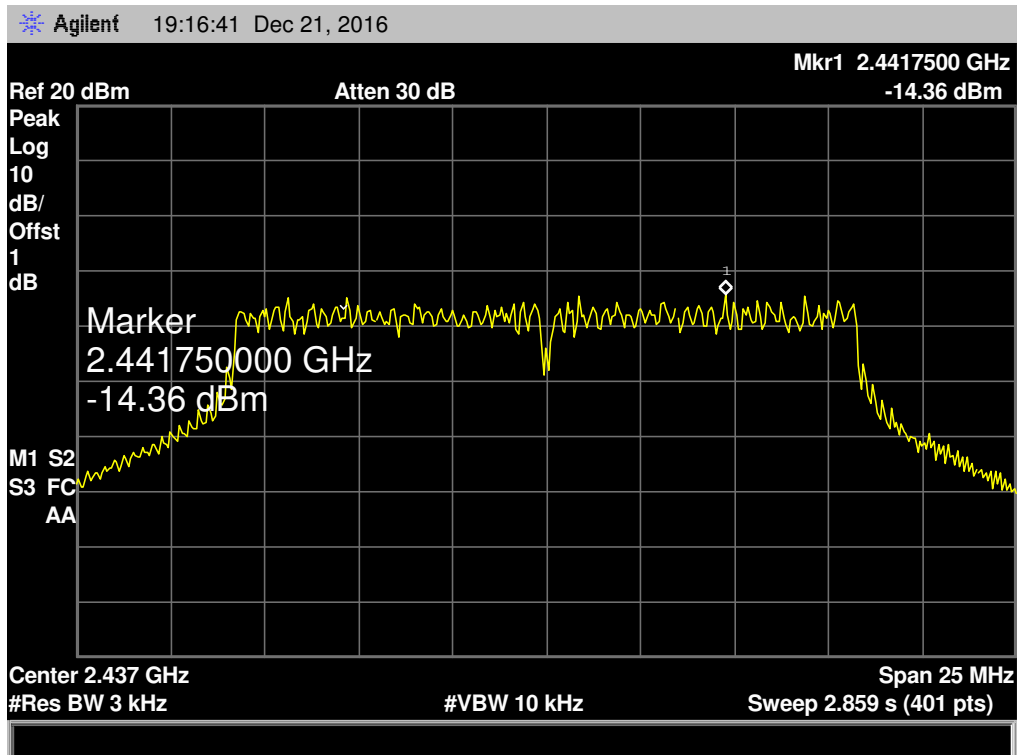
2462 MHz





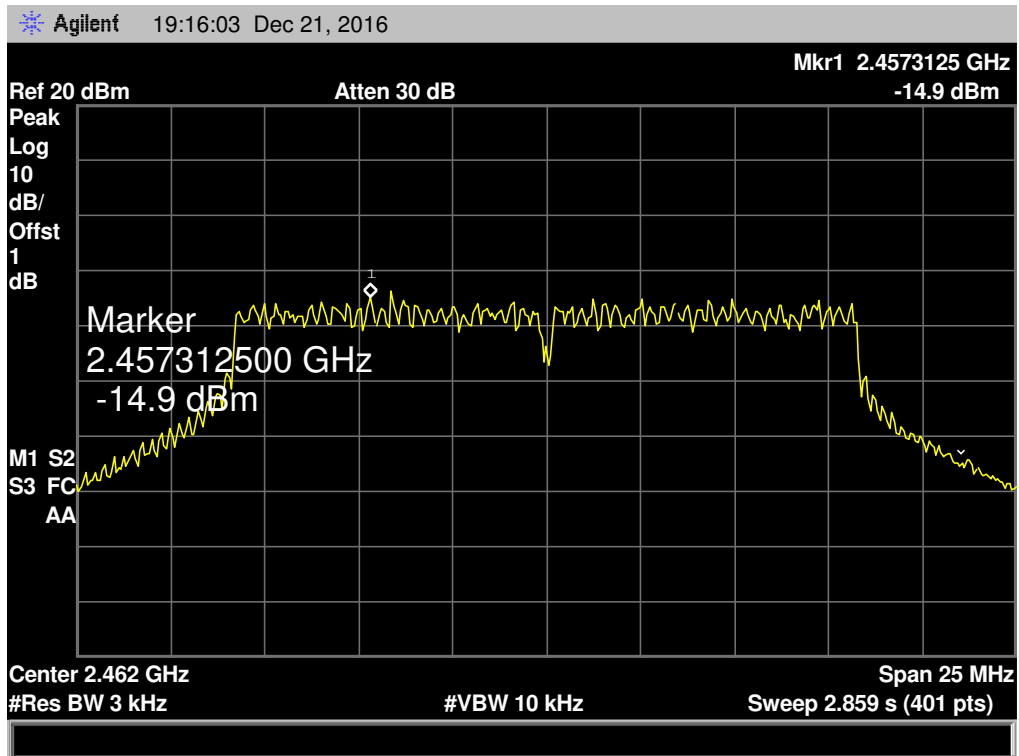
802.11G Mode

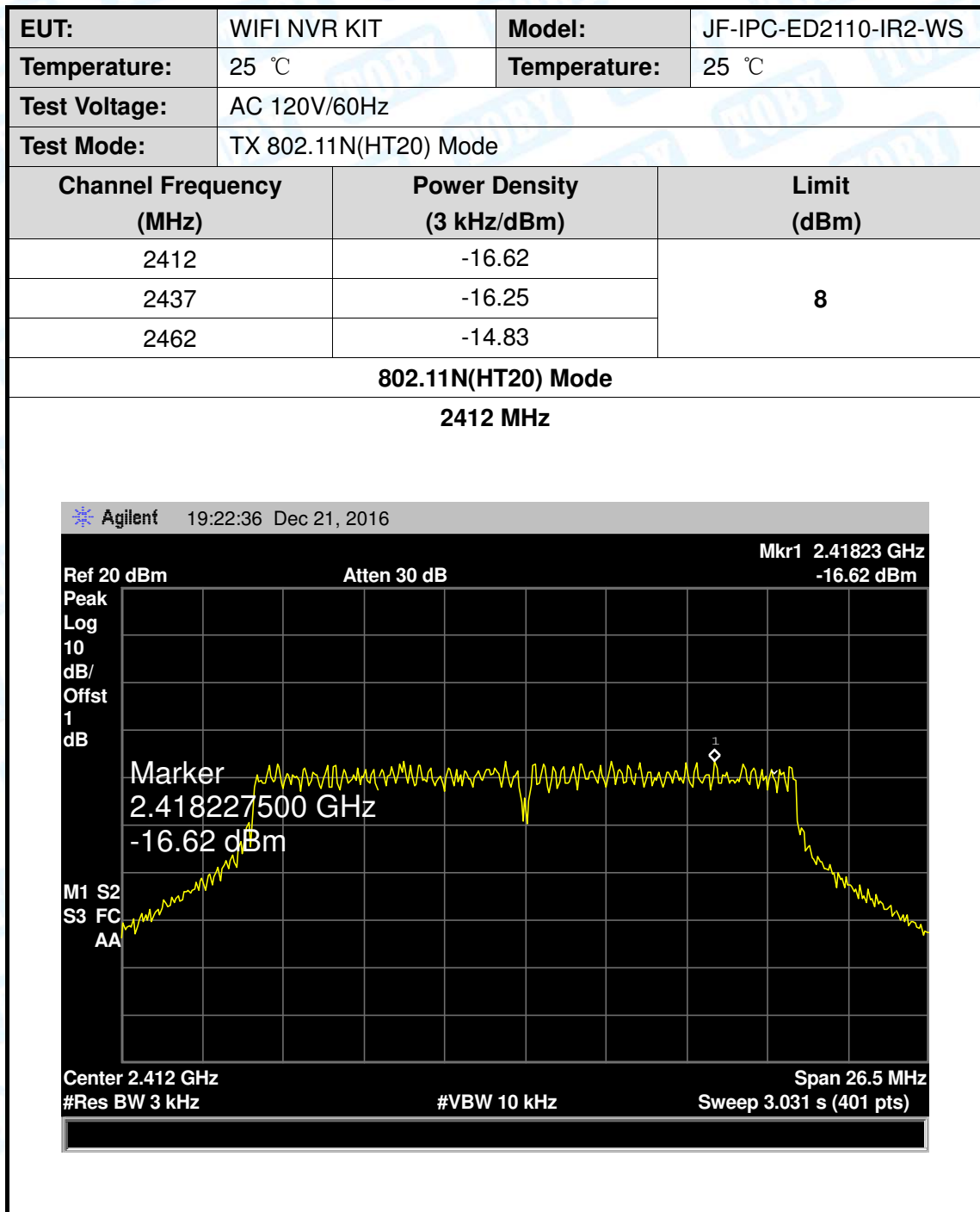
2437 MHz

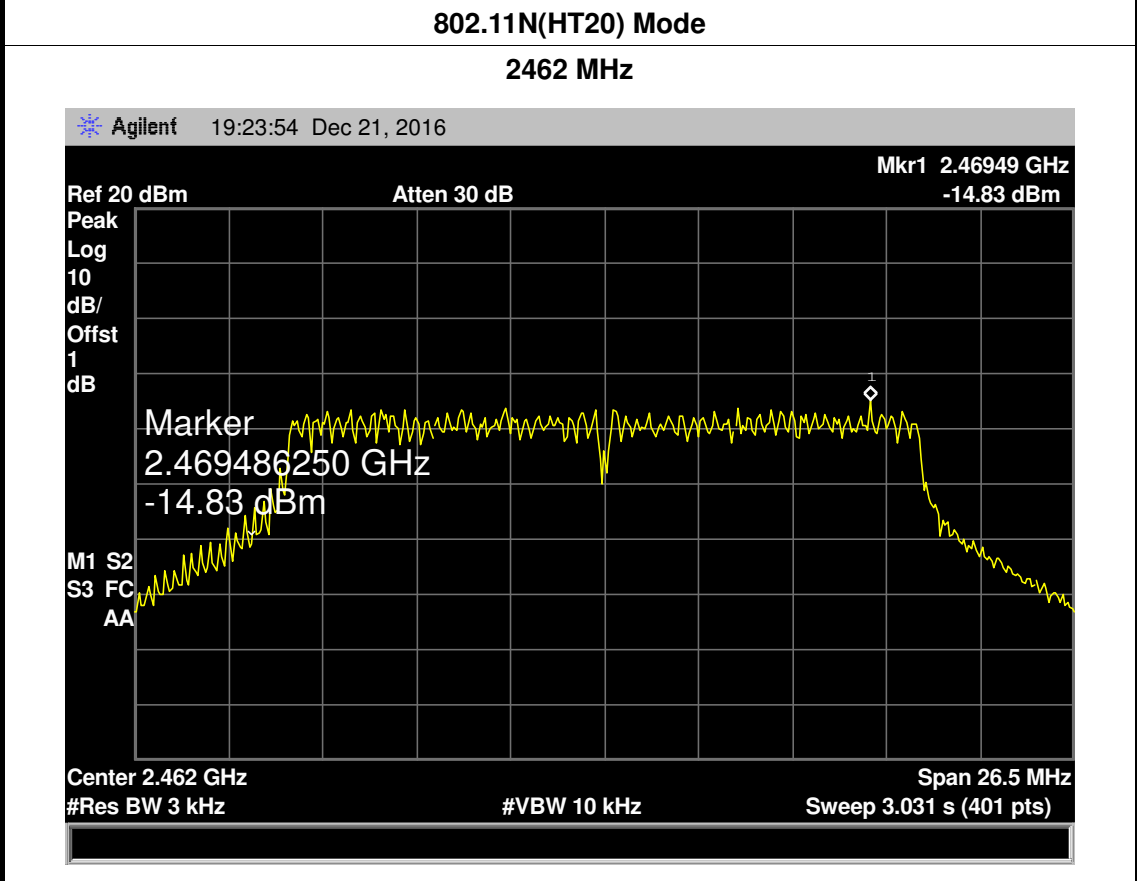
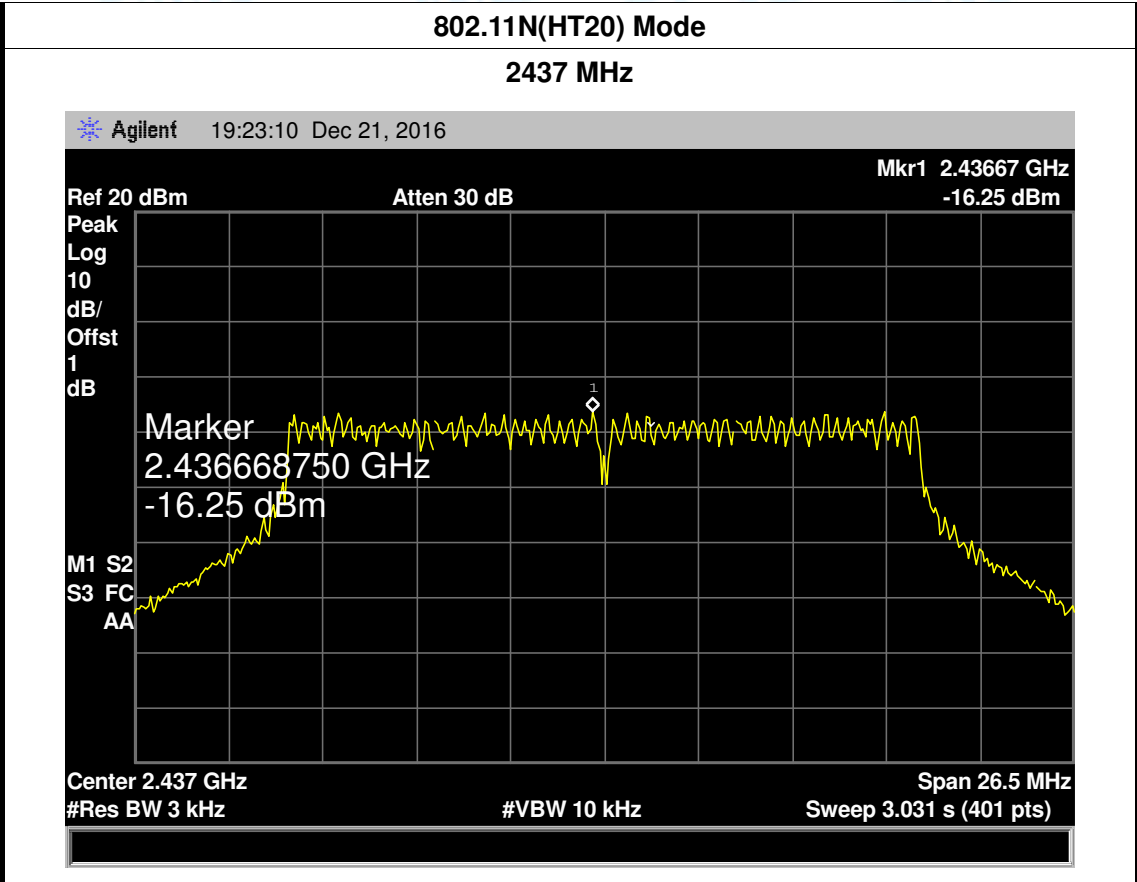


802.11G Mode

2462 MHz



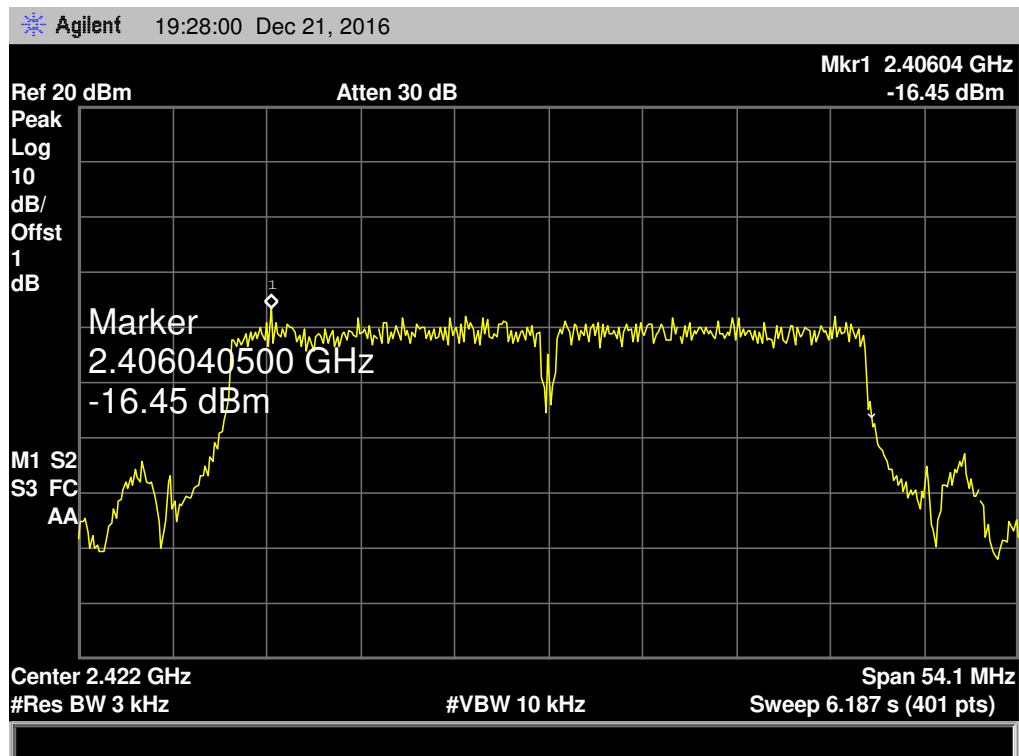




EUT:	WIFI NVR KIT	Model:	JF-IPC-ED2110-IR2-WS
Temperature:	25 °C	Temperature:	25 °C
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11N(HT40) Mode		
Channel Frequency (MHz)	Power Density (3 kHz/dBm)	Limit (dBm)	
2422	-16.45	8	
2437	-17.25		
2452	-16.95		

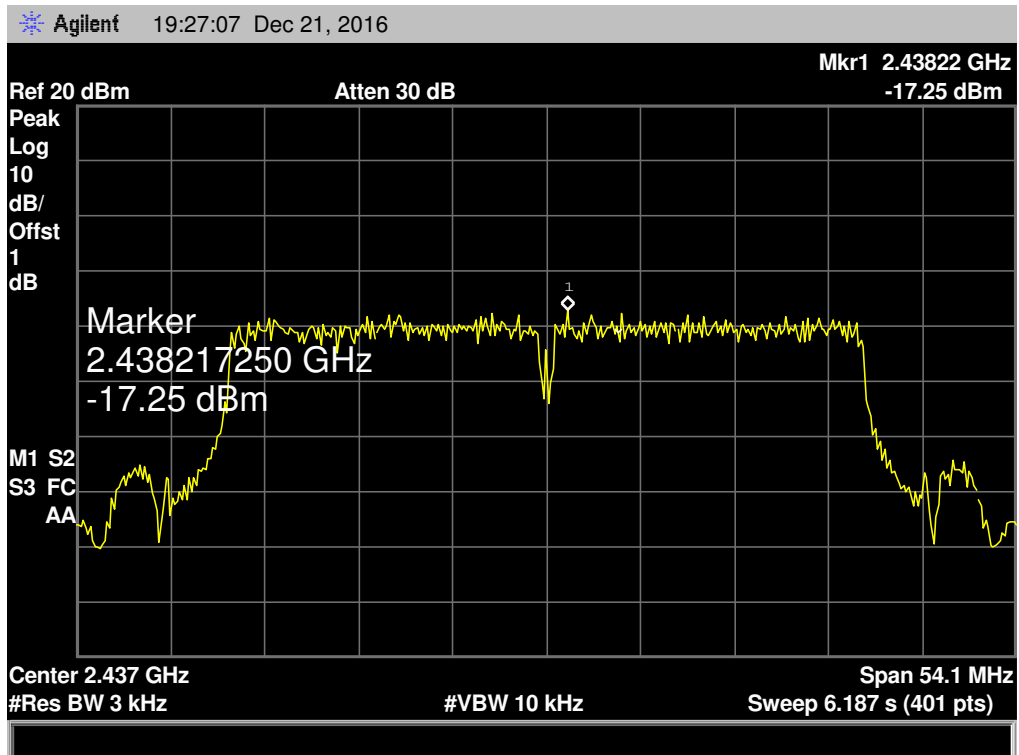
802.11N(HT40) Mode

2422 MHz



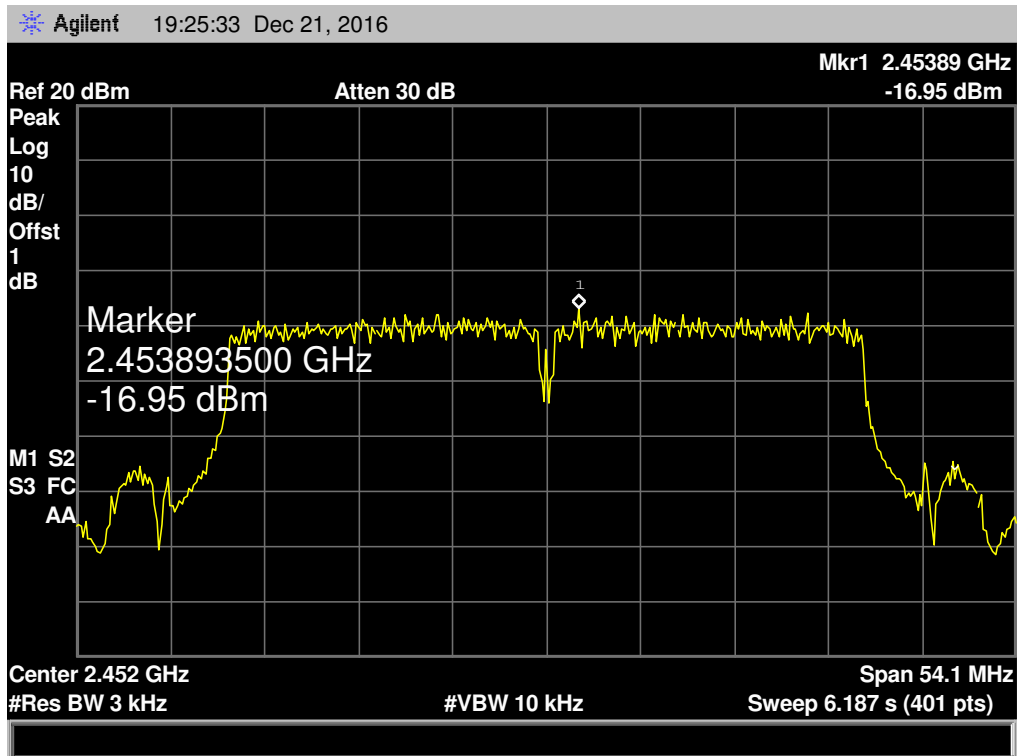
802.11N(HT40) Mode

2437 MHz



802.11N(HT40) Mode

2452 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 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 Dipole Antenna. It complies with the standard requirement.

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

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